

Parts Manual



See "General Information"
for New Parts Manual
Features.

322C FOREST SWING MACHINES

BPH1-Up (Machine)
CAM1-Up (Machine)
CBY1-Up (Machine)
55K8513-Up (Engine)

Powered By 3126 Engine

Product and Dealer Information

Note: For product identification plate locations, see the section “Product Identification Information” in the Operation and Maintenance Manual.

Delivery Date: _____

Product Information

Model: _____

Product Identification Number: _____

Engine Serial Number: _____

Transmission Serial Number: _____

Generator Serial Number: _____

Attachment Serial Numbers: _____

Attachment Information: _____

Customer Equipment Number: _____

Dealer Equipment Number: _____

Dealer Information

Name: _____ Branch: _____

Address: _____

Dealer Contact

Phone Number

Hours

Sales: _____

Parts: _____

Service: _____

Informations produit et concessionnaire

Nota: Voir l'emplacement de la plaque signalétique du produit au chapitre "Informations produit" du guide d'utilisation et d'entretien.

Date de livraison: _____

Informations produit

Modèle: _____

Numéro d'identification produit: _____

Numéro de série du moteur: _____

Numéro de série de la boîte de vitesses: _____

Numéro de série de l'alternateur: _____

Numéros de série d'équipement: _____

Informations sur l'équipement: _____

Numéro matériel client: _____

Numéro matériel concessionnaire: _____

Informations concessionnaire

Nom: _____ Agence: _____

Adresse: _____

Contact concessionnaire

Numéro de téléphone

Heures

Ventes: _____

Pièces: _____

Service: _____

Información del Producto/Distribuidor

Nota: Para saber la ubicación de las placas de identificación del producto, ver la sección “Información sobre identificación del producto” en el Manual de Operación y Mantenimiento.

Fecha de entrega: _____

Información del producto

Modelo: _____

Número de identificación del producto: _____

Número de serie del motor: _____

Número de serie de la transmisión: _____

Número de serie del generador: _____

Números de serie de los accesorios: _____

Información sobre los accesorios: _____

Número del equipo del cliente: _____

Número del equipo del distribuidor: _____

Información del distribuidor

Nombre: _____ Sucursal: _____

Dirección: _____

	<u>Comunicación con el distribuidor</u>	<u>Número de teléfono</u>	<u>Horas</u>
Ventas:	_____	_____	_____
Piezas:	_____	_____	_____
Servicio:	_____	_____	_____

Informações Sobre Produto e Revendedor

Nota: Para localizações da placa de identificação do produto, consulte a seção, “Informações Sobre Identificação do Produto” no Manual de Operação e Manutenção.

Data de Entrega: _____

Informações Sobre o Produto

Modelo: _____

Número de Identificação do Produto: _____

Número de Série do Motor: _____

Número de Série da Transmissão: _____

Número de Série do Gerador: _____

Números de Série de Acessórios: _____

Informações Sobre Acessórios: _____

Número do Equipamento do Cliente: _____

Número do Equipamento do Revendedor: _____

Informações Sobre o Revendedor

Nome: _____ Filial: _____

Endereço: _____

Contato do Revendedor

Telefone

Horas

Vendas: _____

Peças: _____

Serviço: _____

Produkt- und Händlerinformation

Anmerkung: Für die Lage der Produkt-Identnummer und Seriennummern siehe Abschnitt "Produkt-Identinformation" im Betriebs- und Wartungshandbuch.

Lieferdatum: _____

Produkt-Identinformation

Modell: _____

Produkt-Identnummer: _____

Seriennummer des Motors: _____

Seriennummer des Getriebes: _____

Seriennummer des Generators: _____

Seriennummern der Arbeitsgeräte: _____

Arbeitsgeräteinformation: _____

Kundennummer: _____

Händlernummer: _____

Händlerinformation

Name: _____ Niederlassung: _____

Adresse: _____

Kontaktperson beim Händler

Telefon

Dienststunden

Verkauf: _____

Ersatzteile: _____

Service: _____

Informazioni sul prodotto e sul concessionario

Nota: Per le ubicazioni della targhetta informativa sul prodotto, vedere la sezione “Informazioni sull'identificazione del prodotto” nel Manuale di funzionamento e manutenzione.

Data di Consegna: _____

Informazioni sul prodotto

Modello: _____

Numero di identificazione del prodotto: _____

Numero di serie del motore: _____

Numero di serie della trasmissione: _____

Numero di serie del generatore: _____

Numeri di serie dell'attrezzatura: _____

Informazioni sull'attrezzatura: _____

Numero di riferimento cliente: _____

Numero di riferimento concessionario: _____

Informazioni sul concessionario

Nome: _____ Filiale: _____

Indirizzo: _____

Persona da contattare

Numero telefonico

Orario

Vendite: _____

Ricambi: _____

Servizio: _____

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POMPA A PISTONE	490	CONTENITORE PORTAOGGETTI -	
MOTORE DI ROTAZIONE	494	GR	628
FILTRO A RETE	496	CABINA E MONTAGGIO	630
ALBERO MOTORE IDRAULICO - GR	497	CABINA - GR	631
GIUNTO ROTANTE - GR	498	ALLOGGIAMENTO RISCALDAMENTO E	
SERBATOIO E FILTRO IDRAULICO -		EVAPORATORE - GR	632
GR	500	COMPRESSORE DEL	
SERBATOIO E GRUPPO MONTAGGIO-		REFRIGERANTE	634
IDRAULICO	504	CONDENSATORE E GRUPPO DI	
VALVOLA DI COMANDO E		MONTAGGIO-REFRIGERANTE	635
MONTAGGIO	505	CONSOLE SINISTRA	636
VALVOLA DI RITEGNO E LIMITATRICE	506	CONSOLE OPERATORE - GR	638
VALVOLA DI COMANDO DEL FRENO	507	CONSOLE DESTRA	640
VALVOLA DI RITEGNO - GR	509	COMANDI DI SOLEVAMENTO	
VALVOLA DI RITEGNO E DI MASSIMA -		CABINA	642
GR	511	COPERCHIO RISPOSTIGLIO - GR	644
VALVOLA DI CONTROLLO - GR	515	CONDOTTO ARIA - GR	645
VALVOLA DEL CONTROLLO DI FLUSSO E			
LIMITATRICE	538		

INDICE

Nome	Pagina	Nome	Pagina
PROTEZIONE DELLA PORTIERA			
CABINA	646		
PROTEZIONE DEL FINESTRINO			
ANTERIORE	647		
PROTEZIONE TETTuccio - GR	652		
PROTEZIONE FINESTRINO	654		
AVVISATORE ACUSTICO-ELETTRICO	655		
ALLOGGIAMENTO CONDIZIONATORE -			
GR	656		
TUBAZIONI CONDIZIONATORE D'ARIA -			
GR	658		
LETTERATURA - GRUPPO	665		
CABINA - ROPS APERTO	666		
PIATTAFORMA - OPERATORE	668		
SOLLEVATORE DI CABINA	671		
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SUPPORTO SEDILE - GR	678		
SEDILE MOLLEGGIATO	679		
INCLINAZIONE CABINA - CONFIG	680		
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TERGICRISTALLO - GR	689		
MATERIALE DI SERVIZIO E VARIE	690		
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TARGHETTE E DECALCOMANIA - GR	692		
INDICE DEI CODICI RICAMBI	B1		

GENERAL INFORMATION

1. MACHINE IDENTIFICATION

Caterpillar machines are identified by Product Identification Numbers (PIN). Some components included in a machine may be identified by Serial Numbers (S/N). Typical components that will be serialized include engines, transmissions, bulldozers, and rippers. The machine and engine are further identified by arrangement numbers and in some cases modification numbers. These numbers are shown on the product identification plate(s) and on the master plate in the operator's compartment.

Caterpillar dealers need all of these numbers to determine accurate parts identification.



New Feature

Effective First Quarter 2001 the Caterpillar Product Identification Number (PIN) will change from 8 to 17 characters. In an effort to provide uniform equipment identification, Caterpillar and other construction equipment manufacturers are moving to comply with the latest version of the product identification numbering standard. Non-road machine PINs are defined by ISO 10261. The new PIN format will apply to all Caterpillar machines and generator sets. The PIN plates and frame marking will display the 17 character PIN. The new format will look like the following:

CAT 0789BG 6SL12345

1 2 3 4

Where:

1. Caterpillar's World Manufacturing Code (characters 1-3)
2. Machine Descriptor (characters 4-8)
3. Check Character (character 9)
4. Machine Indicator Section (MIS) or Product Sequence Number (characters 10-17). These were previously referred to as the Serial Number.

Machines and generator sets produced before First Quarter 2001 will maintain their 8 character PIN format.

Components such as engines, transmissions, axles, etc. and work tools will continue to use an 8 character Serial Number (S/N).

2. ORDERING PARTS



WARNING

When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.

Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

Quality Caterpillar replacement parts are available from Caterpillar dealers throughout the world. Their parts inventories are up to date and include all parts normally required to protect your investment in Caterpillar machines. Dealers may offer repair kits or remanufactured parts to allow selection of the most effective repair alternative for a particular situation. When ordering parts, your order should specify the quantity, part number, part name, and the serial number/product identification number of the machine for which the parts are needed.

3. PARTS MANUAL ORGANIZATION

Product information in this manual is presented as "information elements" that represent all of the components for the specific model. Engine Arrangement and Seat Group are examples of information elements. The information elements are organized alphabetically by part name and secondarily by part number within each major section of the manual.

4. TABLE OF CONTENTS



New Feature

A table of contents (TOC) is found at the beginning of the manual. The TOC lists each section of the manual with a complete list of all information elements organized as they appear in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

5. MAINTENANCE PARTS INDEX

The Maintenance Parts Index, located near the beginning of the manual, references most frequently used maintenance part numbers, providing description, quantity, usage and page number. This information is organized alphabetically by part description.

GENERAL INFORMATION

6. INDEX

The index located near the front of the manual is an alphabetical listing of all information elements included in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

7. PART NUMBER INDEX

A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

8. CAPTIONS

Captions located at the top of each page of an information element identify the part number and part name along with additional descriptive information. PIN and S/N information found in each caption should be used to select correct information for a specific machine. Field replacement options, identification of optional attachment components, and where used ("part of") information is also provided.

New Feature

The first line of a caption is shown in larger type font to indicate the beginning of an information element. Captions for additional pages that may be required to illustrate an information element will be shown in standard type font and will include the term (*contd.*)

9. NON-SERVICED PARTS

New Feature

In some instances it is necessary to display non-serviced parts that are a link to a lower level serviceable consist lists. These non-serviced part numbers are shown in *italic* type indicating that they are not available.

10. PARTS LIST REFERENCE NUMBERS

New Feature

Numbers shown in the Ref No column correspond to numbers used in the associated graphic(s). An alphabetic suffix may be added to a reference number to identify lower level consist items. Numbers shown in the Graphic Ref column refer to the graphic number identifier displayed in the lower left corner of each illustration. The Graphic Ref number may be used in combination with the item Ref No to determine the correct part number. There may be intentional omission of a Ref No in a consist list as information is updated to reflect the latest serviceable part numbers.

11. INDENTED PART NAMES

When a part name is indented in a parts list, it is part of (included in) the group or assembly under which it is indented.

12. ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations contain reference letters (A, B, C etc.) that are intended to track lines and harnesses from one point to another. They are also used to show where to reconnect illustrations that have been separated.

13. ABBREVIATIONS AND SYMBOLS

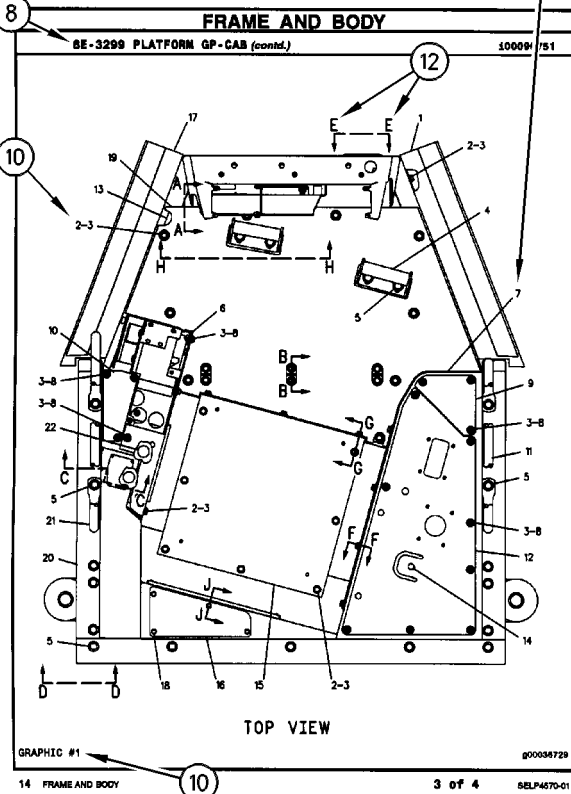
- O.D. – Outside Diameter
- I.D. – Inside Diameter
- A – Not Part Of This Group
- B – Use As Required
- C – Change From Previous Type
- D – Order By The Meter
- E – Order By The Centimeter
- F – Not Shown
- G – Order By The Inch
- I – See Hose Fabrication Guide
- M – Metric Part
- R – Remfg Part May Be Available
- Y – Separate Illustration
- Z – Not Serviced Separately

NOTE:

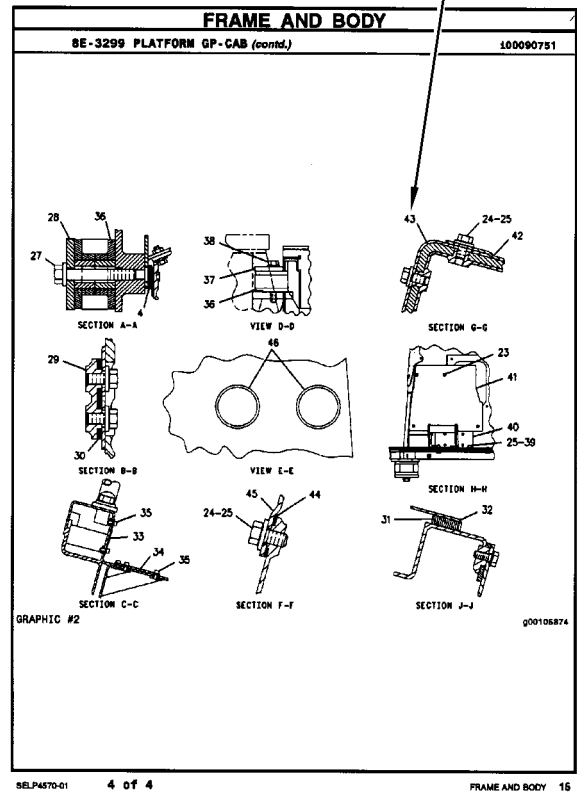
Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Whenever a question arises regarding your Caterpillar product or this publication, please consult your Caterpillar dealer for the latest available information.

GENERAL INFORMATION

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
1	1	1	31-3882	1	PLATE AS				
2	1	1	8E-2082	25	BOLT (3/8-16X.750 IN)				
3	1	1	8E-1078	41	WASHER-HARD (.3MM THK)				
4	1	1	8E-1464	2	SUPPORT AS-FOOT				
5	1	1	8E-2229	18	BOLT (1/2-13X1 IN)				
6	1	1	8E-2229	18	WASHER-HARD (.4MM THK)				
7	1	1	8E-0136	1	COVER AS-LH				
8	1	1	8E-0173	8	NUT-WELD (3/8-16 THD)				
9	1	1	1P-0189	1	CLIP				
10	1	1	78-2411	4	COVER				
11	1	1	8E-2082	18	SCREW-HEAD (3/8-16X.875 IN)				
12	1	1	8E-0174	1	COVER				
13	1	1	8E-0172	1	GASKET				
14	1	1	8E-2240	1	GASKET				
15	1	1	8E-2240	1	GASKET				
16	1	1	8E-2240	1	GASKET				
17	1	1	8E-2240	1	GASKET				
18	1	1	8E-2240	1	GASKET				
19	1	1	8E-2240	1	GASKET				
20	1	1	8E-2240	1	GASKET				
21	1	1	8E-2240	1	GASKET				
22	1	1	8E-2240	1	GASKET				
23	1	1	8E-2240	1	GASKET				
24	1	1	8E-2240	1	GASKET				
25	1	1	8E-2240	1	GASKET				
26	1	1	8E-2240	1	GASKET				
27	1	1	8E-2240	1	GASKET				
28	1	1	8E-2240	1	GASKET				
29	1	1	8E-2240	1	GASKET				
30	1	1	8E-2240	1	GASKET				
31	1	1	8E-2240	1	GASKET				
32	1	1	8E-2240	1	GASKET				
33	1	1	8E-2240	1	GASKET				
34	1	1	8E-2240	1	GASKET				
35	1	1	8E-2240	1	GASKET				
36	1	1	8E-2240	1	GASKET				
37	1	1	8E-2240	1	GASKET				
38	1	1	8E-2240	1	GASKET				
39	1	1	8E-2240	1	GASKET				
40	1	1	8E-2240	1	GASKET				
41	1	1	8E-2240	1	GASKET				
42	1	1	8E-2240	1	GASKET				
43	1	1	8E-2240	1	GASKET				
44	1	1	8E-2240	1	GASKET				
45	1	1	8E-2240	1	GASKET				
46	1	1	8E-2240	1	GASKET				
47	1	1	8E-2240	1	GASKET				
48	1	1	8E-2240	1	GASKET				
49	1	1	8E-2240	1	GASKET				
50	1	1	8E-2240	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (contd.)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
1	1	1	8E-2515	1	COVER				
2	1	1	7T-0134	1	PLATE				
3	1	1	7T-0134	1	GASKET				
4	1	1	78-0124	1	GASKET				
5	1	1	78-0124	1	GASKET				
6	1	1	8E-1959	2	PLUG-BUTTON				
H-METRIC PART									



GÉNÉRALITÉS

1. IDENTIFICATION DE LA MACHINE

Toutes les machines Caterpillar portent un numéro d'identification (PIN). Certains composants des machines peuvent porter des numéros de série (S/N). En général, parmi les composants qui portent des numéros de série il y a les moteurs, les transmissions, les bulldozers et les rippers. En plus, la machine et le moteur peuvent recevoir des numéros de version, et dans certains cas, de modification. Ces numéros figurent sur les plaques de numéro de série et sur la plaque signalétique principale qui se trouve dans le poste de conduite.

Les concessionnaires Caterpillar doivent connaître tous ces numéros pour identifier correctement les pièces.



Nouvelle Caractéristique

À partir du premier trimestre 2001, le numéro d'identification produit (PIN) Caterpillar passe de 8 à 17 caractères. Afin de permettre une identification uniforme des matériels, Caterpillar et d'autres constructeurs de machines de travaux publics s'efforcent de se conformer à la norme la plus récente portant sur les numéros d'identification des produits. Les numéros d'identification (PIN) de machines de chantier sont définis par la norme ISO 10261. Le nouveau format du numéro d'identification est valable pour toutes les machines et tous les groupes électrogènes Caterpillar. Le numéro d'identification produit (PIN) figurant sur la plaque et sur le châssis se composera de 17 caractères. Le nouveau format ressemblera à ceci:

CAT 0789BG 6SL12345

1 2 3 4

Il se décomposera de la façon suivante:

1. Code international de fabrication de Caterpillar (caractères 1 à 3)
2. Descriptif de la machine (caractères 4 à 8)
3. Contrôle (caractère 9)
4. Indicateur machine (MIS) ou numéro de séquence produit (caractères 10 à 17). Ceux-ci étaient auparavant désignés sous le terme de numéro de série.

Les machines et les groupes électrogènes construits avant le premier trimestre 2001 garderont le format à 8 caractères du numéro d'identification produit (PIN).

Les organes tels que les moteurs, les boîtes de vitesses, les essieux, etc., continueront d'être désignés par un numéro de série (S/N) à 8 caractères.

2. COMMANDE DE PIÈCES



Lorsqu'il faut remplacer des pièces de rechange pour ce produit Caterpillar recommande d'utiliser les pièces de rechange Caterpillar ou les pièces qui ont des spécifications équivalentes dont les dimensions physiques, le type, la force et le matériau. Ces équivalences ne se limitent pas à l'énoncé précédent.

L'observation de cette mise en garde peut entraîner des défaillances prématurées, des dommages au produit, des blessures ou même la mort.

Les concessionnaires Caterpillar fournissent dans le monde entier des pièces de rechange de qualité Caterpillar. Leurs stocks de pièces sont constamment réapprovisionnés et comptent toutes les pièces nécessaires pour assurer la bonne marche de vos machines Caterpillar. Certains concessionnaires proposent également des kits de réparation ou des pièces rénovées, ce qui permet de choisir la solution la plus économique dans une situation donnée. Lors des commandes de pièces, mentionner la quantité, le numéro et la désignation des pièces ainsi que le numéro de série ou le numéro d'identification (PIN) de la machine pour laquelle ces pièces sont requises.

3. ORGANISATION DU CATALOGUE DE PIÈCES

Les renseignements sur les produits sont présentés sous forme de "Information element" (élément d'information) représentant tous les composants d'un modèle donné. "Engine Arrangement" (version de moteur) et "Seat Group" (assemblage de siège) sont des exemples d'éléments d'information. Les éléments d'information sont classés par ordre alphabétique par la désignation standard des pièces et par numéros de pièces dans chaque partie importante du manuel.

4. TABLE DES MATIÈRES



Nouvelle Caractéristique

La table des matières se trouve au début du manuel. La table des matières fournit la liste de tous les chapitres du manuel avec une liste complète de tous les éléments d'information classés par ordre d'apparition dans le manuel. Les numéros de page sont fournis afin que l'utilisateur puisse trouver rapidement les illustrations détaillées concernant l'identification des pièces et les listes des pièces d'entretien.

5. INDEX DES PIÈCES D'ENTRETIEN

La rubrique "Index des pièces d'entretien" qui se trouve au début du manuel renvoie aux pièces d'entretien les plus fréquemment utilisées en précisant la désignation, la quantité, là où la pièce est utilisée et le numéro de page. Ces pièces sont classés par ordre alphabétique.

6. INDEX

L'index qui se trouve vers le début du manuel est une liste alphabétique de tous les éléments d'information du manuel. Les numéros de page sont fournis afin que l'utilisateur puisse trouver rapidement les illustrations détaillées concernant l'identification des pièces et les listes des pièces d'entretien.

7. INDEX DES NUMÉROS DE PIÈCES

Une liste numérique de tous les numéros de pièces et des pages correspondantes se trouve à la fin du manuel.

8. LÉGENDES

Les légendes qui se trouvent en haut de chaque page de chaque élément d'information fournissent le numéro de pièce, la désignation ainsi que des renseignements supplémentaires sur les pièces. Les renseignements concernant les numéros de série (S/N) qui se trouvent dans chaque légende doivent être utilisés pour sélectionner les informations correctes pour un moteur donné. Les informations concernant les options de remplacement sur le chantier, l'identification des composants des équipements offerts en option et les lieux d'application sont aussi fournies.



Nouvelle Caractéristique

Les lettres de la première ligne d'une légende sont présentées en police plus grande afin d'indiquer le début d'une unité d'information. Les légendes qui pourraient être requises pour des pages supplémentaires afin d'illustrer une unité d'information seront présentées en police standard et comprendront le terme (à suivre).

9. PIÈCES NON FOURNIES



Nouvelle Caractéristique

Dans certains cas, il est nécessaire d'indiquer les pièces non fournies qui sont en aval de la liste des pièces d'entretien. Les numéros des pièces non fournies dans la liste des pièces et les légendes seront en italique pour signaler qu'ils ne sont pas disponibles.

10. NUMÉROS DE RÉFÉRENCE DE LA LISTE DES PIÈCES



Nouvelle Caractéristique

Les numéros indiqués dans la colonne des numéros de références correspondent aux numéros utilisés dans les illustrations auxquelles ils sont associés. Un suffixe alphabétique peut être ajouté à un numéro de référence pour identifier la liste des articles en aval. Les numéros indiqués dans la colonne de référence de l'illustration renvoient à l'identification du numéro affiché dans le coin inférieur gauche de chaque illustration. Le numéro de référence de l'illustration pourrait être utilisé avec le numéro de référence de l'article pour déterminer le numéro de pièce correct. Il peut y avoir une omission intentionnelle d'un numéro de référence dans une liste de pièces suite à la mise à jour des informations en vue de refléter les numéros de pièces les plus récentes.

11. DÉSIGNATIONS DE PIÈCES EN RETRAIT

Lorsqu'une désignation de pièce est en retrait, cela veut dire que l'article en regard fait partie de l'ensemble sous lequel il figure.

12. LETTRES DE RÉFÉRENCE DES ILLUSTRATIONS

Quand cela est nécessaire, les illustrations comportent des lettres de référence (A, B, C, etc.) pour montrer le trajet des canalisations et faisceaux de câbles d'un point à l'autre. Elles sont utilisées également pour indiquer où relier les illustrations séparées auparavant.

13. ABRÉVIATIONS ET SYMBOLES

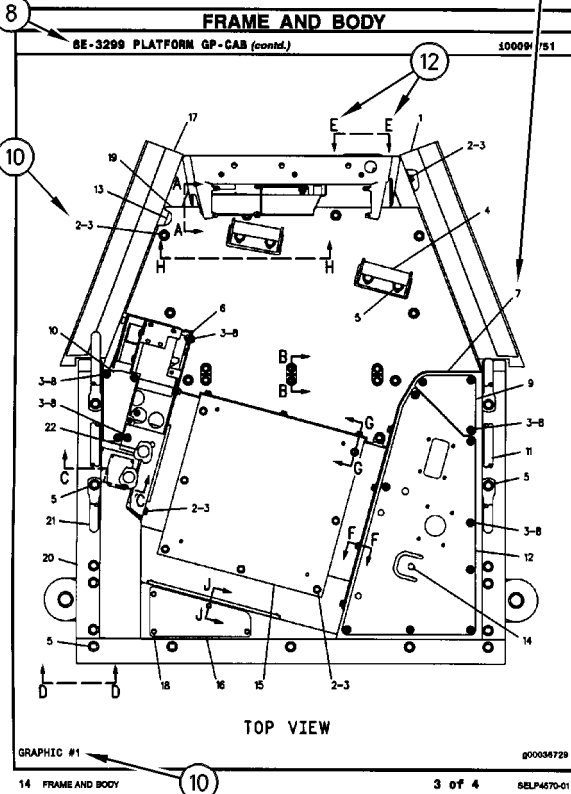
O.D. – Diamètre extérieur
I.D. – Diamètre intérieur
A – Ne fait pas partie de ce groupe
B – Utiliser selon besoin
C – Modification
D – Commander par mètre
E – Commander par centimètre
F – Non représenté
G – Commander par pouce
I – Voir "Hose Fabrication Guide"
M – Pièce métrique
R – Pièce rénovée éventuellement disponible
Y – Illustration séparée
Z – Non fourni séparément

NOTA:

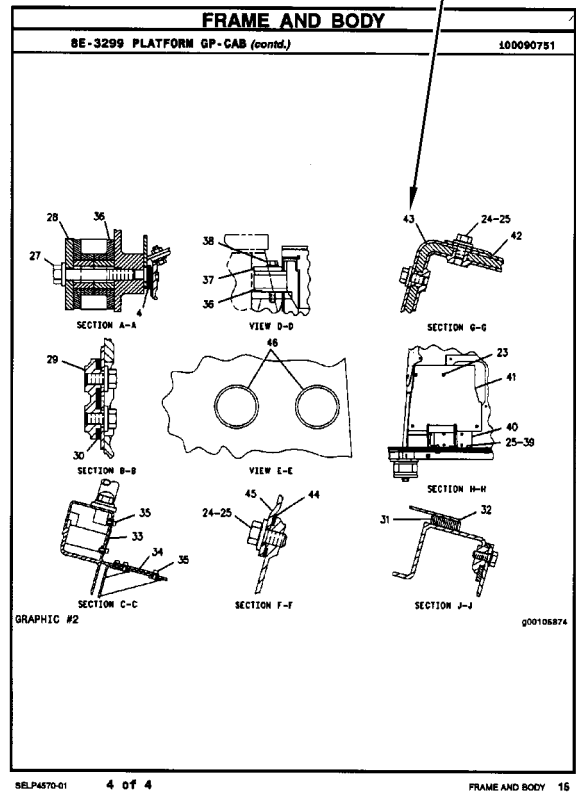
En raison du progrès technique et des améliorations continues apportées au matériel, votre machine comporte peut-être des modifications qui n'apparaissent pas dans la présente publication. En cas de doute sur un détail de votre machine Caterpillar ou sur le texte de la présente publication, adressez-vous à votre concessionnaire Caterpillar.

GÉNÉRALITÉS

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	1		31-3882	1	PLATE AS				
	2		8E-3082	25	BOLT (3/8-16X.750IN)				
	3		8E-1078	41	WASHER-HARD (3MM THK)				
	4		8E-1464	2	SUPPORT AS-FOOT				
	5		8E-2229	18	BOLT (1/2-13X1IN)				
	6		8E-1978	18	WASHER-HARD (4MM THK)				
	7		8E-0136	1	COVER AS-LH				
	8		8E-0173	8	NUT-WELD (3/8-16 THD)				
	9		1P-0189	1	CLIP				
	10		78-2411	4	COVER				
	11		8E-0489	18	SCREW-HEAD (3/8-16X.875IN)				
	12		8E-0174	1	COVER				
	13		8E-0172	1	GASKET				
	14		8E-3249	1	GASKET				
	15		8E-3249	1	GASKET				
	16		8E-3249	1	GASKET				
	17		8E-3249	1	GASKET				
	18		8E-3249	1	GASKET				
	19		8E-3249	1	GASKET				
	20		8E-3249	1	GASKET				
	21		8E-3249	1	GASKET				
	22		8E-3249	1	GASKET				
	23		8E-3249	1	GASKET				
	24		8E-3249	1	GASKET				
	25		8E-3249	1	GASKET				
	26		8E-3249	1	GASKET				
	27		8E-3249	1	GASKET				
	28		8E-3249	1	GASKET				
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	32		8E-3249	1	GASKET				
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	37		8E-3249	1	GASKET				
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	39		8E-3249	1	GASKET				
	40		8E-3249	1	GASKET				
	41		8E-3249	1	GASKET				
	42		8E-3249	1	GASKET				
	43		8E-3249	1	GASKET				
	44		8E-3249	1	GASKET				
	45		8E-3249	1	GASKET				
	46		8E-3249	1	GASKET				
	47		8E-3249	1	GASKET				
	48		8E-3249	1	GASKET				
	49		8E-3249	1	GASKET				
	50		8E-3249	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (contd.)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	41		8E-2515	1	COVER				
	42		7T-0134	1	PLATE				
	43		7T-0136	1	GASKET				
	44		78-0124	1	GASKET				
	45		78-0123	1	COVER				
	46		8E-1959	2	PLUG-BUTTON				
H-METRIC PART									



INFORMACIÓN GENERAL

1. MÁQUINAS

Las máquinas Caterpillar se identifican con Números de Identificación del Producto (PIN). Algunos componentes incluidos en la máquina pueden estar identificados con Números de Serie (N/S). Los componentes que tienen típicamente esta identificación incluyen motores, transmisiones, hojas topadoras y desgarradores. La máquina y el motor se identifican además con Números de Configuración y en algunos casos, Números de Modificación. Estos números están en las placas de identificación del producto o en la placa principal en la cabina del operador.

Los distribuidores Caterpillar necesitan estos números para identificar con exactitud los números de piezas de repuesto.



Nueva Característica

A partir del primer trimestre del 2001, el Número de Identificación de Producto (PIN) de Caterpillar cambiará de 8 a 17 caracteres. Para hacer más uniforme el método de identificación de equipos, Caterpillar y otros fabricantes de equipo de construcción han tomado medidas para cumplir con la versión más reciente de la norma de numeración de identificación de productos. Los Números de Identificación de Producto para máquinas que no se operan en carreteras son definidos por la norma ISO 10261. El nuevo formato PIN corresponderá a todas las máquinas y grupos electrógenos Caterpillar. Las placas y los caracteres PIN estampados en el bastidor mostrarán el PIN de 17 caracteres. El nuevo formato tendrá la apariencia siguiente:

CAT 0789BG 6SL12345

1 2 3 4

Significado de los caracteres:

1. Código de Fabricación Mundial de Caterpillar (caracteres 1-3)
2. Sección Descriptor de la Máquina (caracteres 4-8)
3. Carácter de Verificación (carácter 9)

4. Sección Indicador de la Máquina (MIS) o Número de Secuencia de Producto (caracteres 10-17). Anteriormente, estos caracteres constituían el Número de Serie.

Las máquinas y grupos electrógenos producidos antes del primer semestre del 2001 mantendrán su formato PIN de 8 caracteres.

Los componentes como motores, transmisiones, ejes, herramientas de trabajo, etc., continuarán usando un Número de Serie (S/N) de 8 caracteres.

2. COMO PEDIR REPUESTOS



ADVERTENCIA

Cuando se necesiten piezas de repuesto para este producto, Caterpillar recomienda usar piezas de repuesto Caterpillar o piezas que tengan especificaciones equivalentes incluyendo, pero sin estar limitadas a, dimensiones físicas, tipo, fortaleza y material.

El no hacer caso de esta advertencia puede llevar a fallas prematuras, daños al producto y lesiones graves o mortales.

Las piezas de repuesto Caterpillar de calidad están a la disposición de los distribuidores Caterpillar en todo el mundo. Sus existencias actualizadas incluyen todas las piezas normalmente requeridas para proteger su inversión en máquinas Caterpillar. Los distribuidores pueden tener juegos de reparación o piezas remanufacturadas para permitir la selección de la mejor alternativa de reparación en un caso en particular. Al pedir piezas de repuesto, especifique en su pedido la cantidad, el número de pieza, el nombre de la pieza y el número de serie/número de identificación del producto, de la máquina para la cual se necesitan estas piezas.

3. ORGANIZACION DEL MANUAL DE PIEZAS

La información sobre el producto, se presenta en este manual, como "elementos de información" que representan todos los componentes de un modelo específico. Las configuraciones de motores y los grupos de asientos son ejemplos de elementos de información. Los elementos de información están organizados primeramente por nombres de piezas en orden alfabético y en segundo lugar, por el número de pieza dentro de cada sección principal del manual.

4. CONTENIDO



Nueva Característica

La página de Contenido se encuentra al principio del manual. El Contenido indica cada sección del manual con una lista completa de todos los elementos de información organizados en el orden que aparecen en el manual. Los números de página proporcionan una referencia rápida a las ilustraciones detalladas de identificación de piezas y a las listas de componentes de repuesto de dichas piezas.

5. ÍNDICE DE PIEZAS DE MANTENIMIENTO

Al principio de este catálogo se encuentra un índice de los números de piezas utilizadas más frecuentemente para el mantenimiento, que incluye descripción, cantidad necesaria, lugar de utilización y número de página. Esta información está organizada alfabéticamente, por descripción de la pieza.

6. ÍNDICE

El Índice, ubicado cerca del principio del manual, es una lista en orden alfabético de todos los elementos de información incluidos en el manual. Los números de página proporcionan una referencia rápida a las ilustraciones detalladas de identificación de piezas y a las listas de componentes de repuesto de dichas piezas.

7. INDICE NUMÉRICO DE PIEZAS

Un índice numérico de piezas con el correspondiente número de página aparece al final de este catálogo.

8. TÍTULOS

Los títulos ubicados en la parte superior de cada página de elementos de información identifican el número y el nombre de la pieza junto con información descriptiva adicional para ayudar al usuario a determinar las piezas necesarias para una máquina en particular. También se suministra información sobre las opciones de reparación en el campo, la identificación de componentes de accesorios optativos y el lugar de ubicación de la pieza ("es parte de").



Nueva Característica

La primera línea del título se muestra con un tipo de letra más grande para indicar el comienzo de un elemento de información. Si se requieren páginas adicionales para ilustrar un elemento de información, los títulos se muestran con un tipo de letra normal y la continuación se indica entre paréntesis.

9. PIEZAS QUE NO SE SUMINISTRAN COMO REPUESTO



Nueva Característica

En algunos casos es necesario indicar piezas que no se suministran como repuesto pero que pueden estar conectadas a listas de componentes de otras piezas de repuesto. En tal caso, dichas piezas se muestran en cursiva para indicar que no son piezas disponibles.

10. NÚMEROS DE REFERENCIA



Nueva Característica

Los números en la columna de No. de Referencia corresponden a los números indicados en la ilustración que pertenece a ese número de pieza. Los números que tienen un sufijo alfabético identifican artículos de las listas de componentes de piezas. Los números en la columna de Referencia de la ilustración se identifican en la esquina inferior izquierda de cada ilustración. Para determinar el número de pieza correcto se puede utilizar tanto el No. de Referencia de la ilustración como el No. de Referencia del artículo. A medida que se actualiza la información para indicar los más recientes números de piezas de repuesto, puede omitirse intencionalmente un No. de Referencia en una lista de componentes de piezas.

11. NOMBRES DE PIEZA SANGRADOS

Cuando el nombre de una pieza está sangrado en una lista, significa que esta pieza forma parte del grupo o conjunto del renglón inmediatamente superior.

12. LETRAS DE REFERENCIA DE ILUSTRACIONES

Las ilustraciones contienen algunas veces letras de referencia (A, B, C etc.) cuyo propósito es seguir el trayecto de líneas y mazos de cables de un punto a otro. También se utilizan para mostrar dónde volver a unir ilustraciones que se habían separado.

INFORMACIÓN GENERAL

13. ABREVIATURAS Y SIMBOLOS

O.D. – Diámetro exterior

I.D. – Diámetro interior

A – No es pieza de este grupo

B – Utilizado según la demanda

C – Indica cambio

D – Se pide por metro

E – Se pide por centímetro

F – No se muestra

G – Se pide por pulgada

I – Ver "Hose Fabrication Guide"

M – Pieza métrica

R – Puede estar disponible como pieza remanufacturada

Y – Ilustración separada

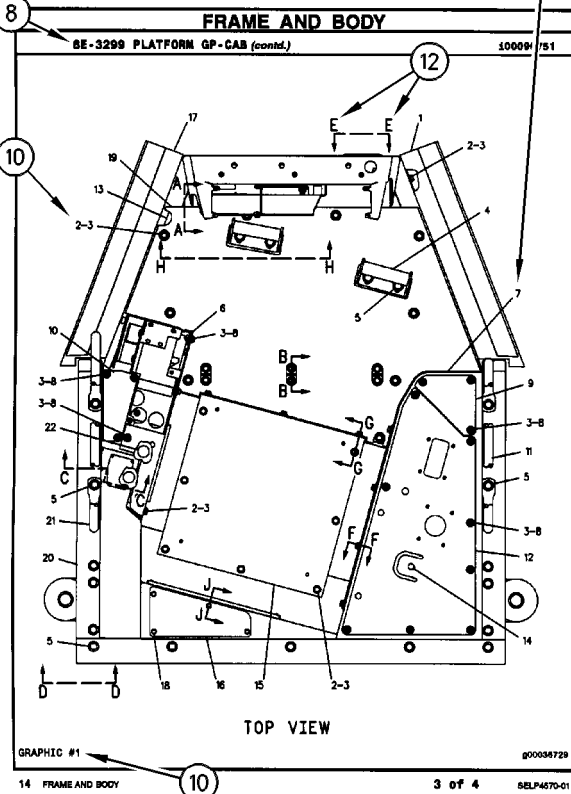
Z – No se suministra por separado

NOTA:

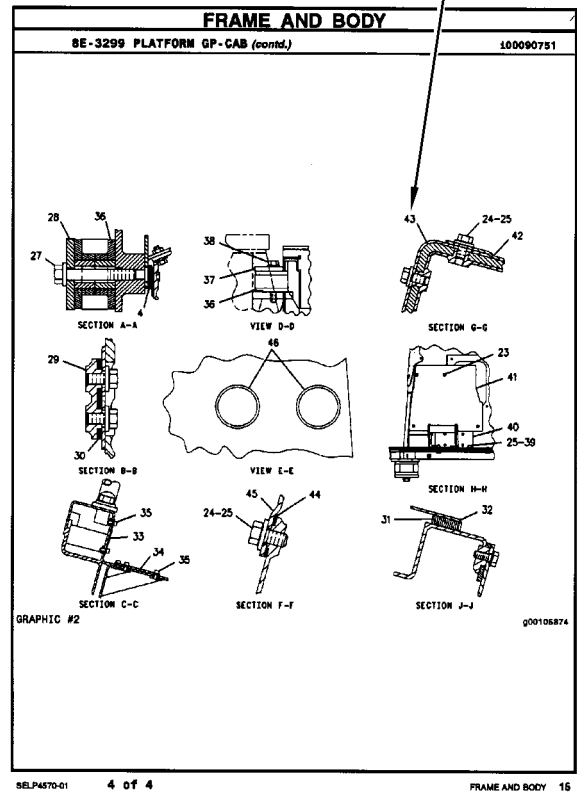
Las continuas mejoras y adelantos en diseño podrían originar cambios a su máquina que no se incluyen en esta publicación. Cuando tenga alguna pregunta acerca de su producto Caterpillar o de esta publicación, consulte al distribuidor Caterpillar para obtener la información más reciente.

INFORMACIÓN GENERAL

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	1		31-3882	1	PLATE AS				
	2		8E-3082	25	BOLT (3/8-16X.750IN)				
	3		8E-1078	41	WASHER-HARD (3MM THK)				
	4		8E-1464	2	SUPPORT AS-2007				
	5		8E-2229	18	BOLT (1/2-13X1IN)				
	6		8E-1078	18	WASHER-HARD (4MM THK)				
	7		8E-0136	1	COVER AS-LH				
	8		8E-0173	8	NUT-WELD (3/8-16 THD)				
	9		1P-0189	1	CLIP				
	10		78-2411	4	COVER				
	11		8E-0489	18	SCREW-HEAD (3/8-16X.875IN)				
	12		8E-0173	1	COVER				
	13		8E-0173	1	GASKET				
	14		8E-3249	1	GASKET				
	15		8E-3249	1	GASKET				
	16		8E-3249	1	GASKET				
	17		8E-3249	1	GASKET				
	18		8E-3249	1	GASKET				
	19		8E-3249	1	GASKET				
	20		8E-3249	1	GASKET				
	21		8E-3249	1	GASKET				
	22		8E-3249	1	GASKET				
	23		8E-3249	1	GASKET				
	24		8E-3249	1	GASKET				
	25		8E-3249	1	GASKET				
	26		8E-3249	1	GASKET				
	27		8E-3249	1	GASKET				
	28		8E-3249	1	GASKET				
	29		8E-3249	1	GASKET				
	30		8E-3249	1	GASKET				
	31		8E-3249	1	GASKET				
	32		8E-3249	1	GASKET				
	33		8E-3249	1	GASKET				
	34		8E-3249	1	GASKET				
	35		8E-3249	1	GASKET				
	36		8E-3249	1	GASKET				
	37		8E-3249	1	GASKET				
	38		8E-3249	1	GASKET				
	39		8E-3249	1	GASKET				
	40		8E-3249	1	GASKET				
	41		8E-3249	1	GASKET				
	42		8E-3249	1	GASKET				
	43		8E-3249	1	GASKET				
	44		8E-3249	1	GASKET				
	45		8E-3249	1	GASKET				
	46		8E-3249	1	GASKET				
	47		8E-3249	1	GASKET				
	48		8E-3249	1	GASKET				
	49		8E-3249	1	GASKET				
	50		8E-3249	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (contd.)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	41		8E-2515	1	COVER				
	42		7T-0134	1	PLATE				
	43		7T-0134	1	GASKET				
	44		78-0124	1	GASKET				
	45		78-0124	1	COVER				
	46		8E-1959	2	PLUG-BUTTON				
H-METRIC PART									



INFORMAÇÃO GERAL

1. IDENTIFICAÇÃO DA MÁQUINA

As máquinas Caterpillar são identificadas pelos Números de Informação do Produto (PIN). Alguns componentes incluídos numa máquina podem ser identificados por Números de Série (S/N). Componentes típicos que serão enumerados com números de série incluem motores, transmissões, lâminas e ríperes. Além do número de série, a máquina e o motor são ainda identificados por números de arranjo e, em alguns casos, números de modificações. Tais números encontram-se na(s) placa(s) de identificação do produto e na placa mestre no compartimento do operador.

Novidades

A partir do primeiro trimestre de 2001 o Número de Identificação de Produto da Caterpillar (PIN) vai mudar de 8 para 17 caracteres. Esforçando-se para fornecer uma identificação uniforme de equipamentos, a Caterpillar e outros fabricantes de equipamento de construção estão mudando para atender a versão mais atualizada do padrão de identificação de produtos. Os números de PIN para produtos de aplicações não rodoviárias são definidos pela ISO 10261. O novo formato de número PIN será adotado em todas as máquinas e grupos geradores Caterpillar. As placas e as marcações do chassi mostrarão os 17 dígitos de PIN. O novo formato terá a seguinte disposição:

* C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 *

1 2 3 4

Onde:

1. Código de Fabricação Mundial da Caterpillar (dígitos 1-3)
2. Descrição da Máquina (dígitos 4-8)
3. Dígito de Verificação (dígito 9)
4. Seção de Indicador da Máquina (MIS) ou Número de Seqüência de Produto (dígitos 10-17). Estes eram anteriormente chamados de Número de Série.

Máquinas e grupos geradores produzidos antes do primeiro trimestre de 2001 manterão o formato de 8 caracteres de PIN.

Componentes como motores, transmissões, eixos, ferramentas de trabalho, etc. continuarão a usar Número de Série (S/N) com oito caracteres.

2. COMO OBTER PEÇAS

CUIDADO

Quando peças de substituição são exigidas para este produto, a Caterpillar recomenda a utilização de peças de substituição Caterpillar ou peças com as especificações equivalentes incluindo, mas não limitadas, à dimensões físicas, tipos, resistência e materiais.

A inobservância desta advertência poderá resultar em falhas prematuras, danos ao produto, ferimentos ou morte.

As Peças de Reposição de Qualidade Caterpillar encontram-se disponíveis nos revendedores Caterpillar no mundo inteiro. Seus estoques de peças são atualizados e incluem todas as peças normalmente necessárias para proteger seu investimento em máquinas Caterpillar. Alguns revendedores podem oferecer jogos de reparo ou peças de troca/remanufaturadas disponíveis como uma opção da alternativa de reparo mais eficaz para uma situação específica. Ao encomendar peças, seu pedido deve especificar a quantidade, o número e o nome da peça e o número de série/número de identificação do produto referentes à máquina para a qual as peças se destinam.

3. ORGANIZAÇÃO DO MANUAL DE PEÇAS

A informação do produto neste manual é apresentada em forma de "elementos de informação" que representam todos os componentes para o modelo específico. Arranjo de Motor e Grupo de Assento são exemplos de elementos de informação. Os elementos de informação são organizados em ordem alfabética por nome de peça ou secundariamente, por número de peça incluído em cada seção principal do manual.

4. LISTA DE CONTEÚDOS

Novidades

A Lista de Conteúdos (TOC) se encontra no princípio do manual. A Lista de Conteúdos (TOC) relaciona em cada seção do manual uma lista completa com todos os elementos de informação organizados conforme aparecem no manual. Números de página são fornecidos para que se tenha referência rápida de ilustrações de peças detalhadas e listas de conteúdos que podem receber serviço de manutenção.

5. ÍNDICE DE PEÇAS DE MANUTENÇÃO

O Índice de Peças de Manutenção, localizado perto do princípio do manual, faz referência aos números de peça de manutenção usados com maior frequência, fornecendo uma descrição, a quantidade, o uso e o número de página. Esta informação é organizada com a descrição da peça em ordem alfabética.

6. ÍNDICE

O Índice localizado perto do princípio do manual, consiste de uma lista em ordem alfabética de todos os elementos de informação incluídos no manual. Números de página são fornecidos para que se tenha referência rápida de ilustrações de peças detalhadas e listas de conteúdos que podem receber serviço de manutenção.

7. ÍNDICE DE NÚMERO DE PEÇA

Um índice numérico relacionando todos os números de peça e a(s) página(s) correspondentes, aparece no final do manual.

8. LEGENDAS

As legendas localizadas na parte de cima de cada página de um elemento de informação identifica o número de peça e o nome da peça, juntamente com informação descritiva adicional. Informações sobre o Número de Informação do Produto (PIN) e o Número de Série (S/N) encontradas em cada legenda devem ser usadas para selecionar a informação correta sobre uma máquina específica. Opções de substituição no campo, identificação de componentes de acessórios opcionais e informações sobre onde são utilizados ("parte de") são também fornecidas.



Novidades

A primeira linha de uma legenda é indicada em tipo maior para indicar o princípio de um elemento de informação. Legendas para páginas adicionais que podem ser necessárias para ilustrar um elemento de informação serão apresentadas em tipo padrão e incluirão o termo (*continua*) .

9. NÃO DISPONÍVEL SEPARADAMENTE



Novidades

Em alguns casos, é necessário mostrar peças não disponíveis separadamente que têm uma ligação com listas de conteúdos de nível inferior que podem receber serviço de manutenção. Os números de peça destes componentes não disponíveis aparecerão em *italico* , a fim de indicar que não estão disponíveis.

10. NÚMEROS DE REFERÊNCIA À LISTA DE PEÇAS



Novidades

Os números indicados na coluna Ref No (No. de Referência) correspondem-se aos números usados no(s) gráfico(s) correspondente(s). Um sufixo com letras pode ser acrescentado a um número de referência para identificar itens de conteúdo de nível inferior. Os números indicados na coluna Graphic Ref (Referência de Gráfico) referem-se ao identificador de número de gráfico presente no canto esquerdo inferior de cada ilustração. O número de Referência de Gráfico pode ser usado em combinação com o item Ref No para determinar-se o número de peça correto. Poderá haver omissão intencional de um número de referência (Ref No) de uma lista de conteúdos uma vez que as informações são atualizadas para refletir os números de peça mais recentes que podem receber serviço de manutenção.

11. NOMES DE PEÇAS DESALINHADOS

Quando um nome de peça encontra-se desalinhado numa lista de peças, significa que tal item faz parte do (está incluído no) grupo ou conjunto sob o qual está relacionado.

12. LETRAS DE REFERÊNCIA NAS ILUSTRAÇÕES

Quando necessário, as ilustrações contêm letras de referência (A, B, C, etc.) que são utilizadas para seguir tubulações e cabos elétricos de um ponto a outro. Também foram utilizadas para indicar onde se pode reconectar as ilustrações que foram separadas.

13. ABREVIações E SÍMBOLOS

O.D. – "Outside Diameter" (Diâmetro Externo)

I.D. – "Inside Diameter" (Diâmetro Interno)

A – Não faz parte deste grupo

B – Use conforme necessário

C – Indica modificação

D – Vendido por metro

E – Vendido por centímetro

F – Não ilustrado

G – Vendido por polegada

I – Consulte o seu revendedor quanto a mangueira

M – Peça métrica

R – Peça remanufaturada pode estar disponível; consulte o seu revendedor Cat

Y – Ilustração separada

Z – Não disponível separadamente

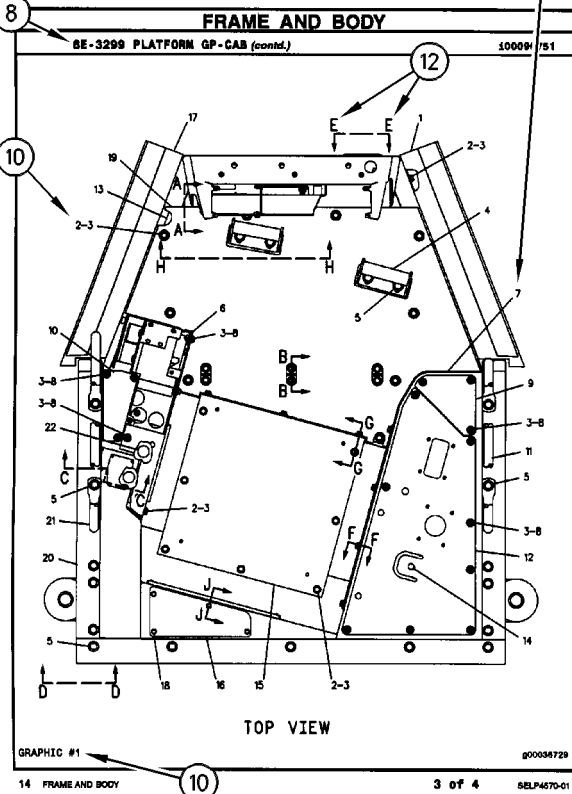
INFORMAÇÃO GERAL

NOTA:

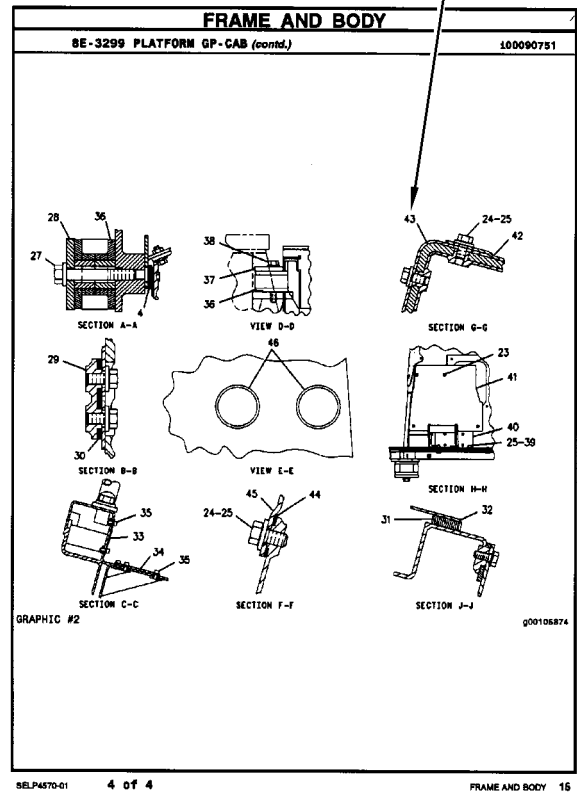
Os contínuos aperfeiçoamentos e avanços no projeto do produto podem ocasionar modificações em sua máquina que talvez ainda não estejam incluídas nesta publicação. Sempre que surgirem dúvidas quanto a um produto Caterpillar ou quanto à presente publicação, consulte o seu revendedor Caterpillar para obter as informações mais recentes disponíveis.

INFORMAÇÃO GERAL

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	1		31-3883	1	PLATE AS				
	2		8E-3082	25	BOLT (3/8-16X.750IN)				
	3		8E-1078	41	WASHER-HARD (3MM THK)				
	4		8E-1464	2	SUPPORT AS-FOOT				
	5		8E-2229	18	BOLT (1/2-13X1IN)				
	6		8E-1974	18	WASHER-HARD (4MM THK)				
	7		8E-0136	1	COVER AS-LH				
	8		8E-0173	6	NUT-WELD (3/8-16 THD)				
	9		1P-0189	1	CLIP				
	10		78-2411	4	COVER				
	11		8E-0489	18	SCREW-HEAD (3/8-16X.875IN)				
	12		8E-0174	1	COVER				
	13		8E-0172	1	GASKET				
	14		8E-3249	1	GASKET				
	15		8E-3249	1	GASKET				
	16		8E-3249	1	GASKET				
	17		8E-3249	1	GASKET				
	18		8E-3249	1	GASKET				
	19		8E-3249	1	GASKET				
	20		8E-3249	1	GASKET				
	21		8E-3249	1	GASKET				
	22		8E-3249	1	GASKET				
	23		8E-3249	1	GASKET				
	24		8E-3249	1	GASKET				
	25		8E-3249	1	GASKET				
	26		8E-3249	1	GASKET				
	27		8E-3249	1	GASKET				
	28		8E-3249	1	GASKET				
	29		8E-3249	1	GASKET				
	30		8E-3249	1	GASKET				
	31		8E-3249	1	GASKET				
	32		8E-3249	1	GASKET				
	33		8E-3249	1	GASKET				
	34		8E-3249	1	GASKET				
	35		8E-3249	1	GASKET				
	36		8E-3249	1	GASKET				
	37		8E-3249	1	GASKET				
	38		8E-3249	1	GASKET				
	39		8E-3249	1	GASKET				
	40		8E-3249	1	GASKET				
	41		8E-3249	1	GASKET				
	42		8E-3249	1	GASKET				
	43		8E-3249	1	GASKET				
	44		8E-3249	1	GASKET				
	45		8E-3249	1	GASKET				
	46		8E-3249	1	GASKET				
	47		8E-3249	1	GASKET				
	48		8E-3249	1	GASKET				
	49		8E-3249	1	GASKET				
	50		8E-3249	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (contd.)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	100090751	SEE PAGE	
	41		8E-2515	1	COVER				
	42		7T-0134	1	PLATE				
	43		7T-0136	1	GASKET				
	44		78-0724	1	GASKET				
	45		78-0723	1	COVER				
	46		8E-1959	2	PLUG-BUTTON				
H-METRIC PART									



ALLGEMEINE HINWEISE

1. MASCHINENKENNZEICHNUNG

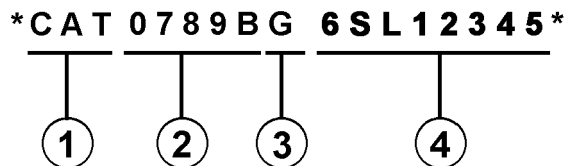
Caterpillar-Maschinen sind mit PRODUCT IDENTIFICATION NUMBERS (PIN) (Produkt-Identnummern) gekennzeichnet. Einige Baugruppen, z.B. Motoren, Getriebe, Planierschilde und Aufreißer, sind mit SERIAL NUMBERS (S/N) (Seriennummern) gekennzeichnet. An der Maschine und am Motor befinden sich außerdem ARRANGEMENT NUMBERS (Ausrüstungsnummern) sowie in einigen Fällen MODIFICATION NUMBERS (Änderungsnummern). Sie befinden sich auf den PIN-Schildern und auf dem Typenschild im Fahrerhaus.

Bei Ersatzteilbestellungen müssen dem Händler alle diese Nummern zur Verfügung gestellt werden.



Neu im Parts Manual

Vom ersten Quartal 2001 ab wird die Caterpillar Produkt-Identnummer (PIN) von 8 auf 17 Zeichen geändert. Um zur Standardisierung der Produkt-Identnummer beizutragen, sind Caterpillar und andere Baumaschinenhersteller bestrebt, die aktuellste Norm zur Produkt-Identnummerierung einzuführen. Produkt-Identnummern für Baumaschinen sind durch ISO 10261 definiert. Das neue Format der Produkt-Identnummern gilt für alle Caterpillar-Maschinen und -Stromaggregate. Die Produkt-Identschilder und -Identrahmenmarkierung enthalten die aus 17 Zeichen bestehende Identnummer. Das neue Format hat folgende Abschnitte:



Abschnitte:

1. Caterpillars weltweiter Herstellungscode (Zeichen 1-3)
2. Modell (Zeichen 4-8)
3. Kontrollzeichen (Zeichen 9)
4. Maschinenspezifische Kennung (MIS) oder Produktsequenznummer (Zeichen 10-17). Diese wurde früher als Seriennummer bezeichnet.

Für vor dem ersten Quartal 2001 hergestellte Maschinen und Stromaggregate wird das aus 8 Zeichen bestehende PIN-Format beibehalten.

Bauteile wie z.B. Motoren, Getriebe, Achsen sowie Arbeitsgeräte werden weiterhin eine aus 8 Zeichen bestehende Seriennummer (S/N) aufweisen.

2. BESTELLEN VON ERSATZTEILEN



WARNUNG

Wenn für diese Maschine Ersatzteile benötigt werden, empfiehlt Caterpillar, ausschließlich Caterpillar-Ersatzteile oder solche zu verwenden, die die gleichen technischen Merkmale hinsichtlich Typ, Festigkeit, Werkzeugeigenschaften und die gleichen Maße aufweisen.

Bei Nichtbeachtung dieser Warnung besteht Verletzungs- oder sogar Lebensgefahr! Ferner kann Nichtbeachtung vorzeitige Ausfälle der Teile und Beschädigung der Maschine zur Folge haben.

Original Caterpillar-Ersatzteile können weltweit bei jedem Caterpillar-Händler bestellt werden. Die umfangreichen Händlerlager enthalten normalerweise alle Teile, die Sie für Ihre Caterpillar-Maschine benötigen. Einige Händler bieten Reparatursätze, Austausch- oder werküberholte Teile an, so daß Sie eine Auswahl unter verschiedenen Reparaturmöglichkeiten treffen können. Ihre Bestellung muß folgende Angaben enthalten: Anzahl der benötigten Teile, Bestellnummer, Bezeichnung des Teils, Serien-Nr./Produkt-Ident-Nr., Ausrüstungs-Nr. und Änderungs-Nr. der Maschine, für die diese Teile benötigt werden.

3. AUFBAU DES PARTS MANUAL

Die Produktinformationen für alle Komponenten eines bestimmten Modells sind in INFORMATION ELEMENTS (Informationseinheiten) gegliedert. ENGINE ARRANGEMENT (Motorausführung) und SEAT GROUP (Fahrsitz) sind Beispiele für solche Informationseinheiten. Sie sind innerhalb jeder Gruppe alphabetisch, entsprechend der Ersatzteilbezeichnung, und zusätzlich numerisch, entsprechend der Ersatzteilnummer, geordnet.

4. INHALTSVERZEICHNIS



Neu im Parts Manual

Das Inhaltsverzeichnis befindet sich am Anfang des Buches. Im Inhaltsverzeichnis werden die einzelnen Abschnitte des Buches aufgeführt. Die Abschnitte enthalten eine vollständige Aufstellung aller Informationseinheiten. Diese sind entsprechend ihrem Erscheinen im Buch geordnet. Das Inhaltsverzeichnis enthält Seitenangaben für Schnellverweise auf detaillierte Abbildungen und Teillisten.

5. INDEX FÜR WARTUNGSTEILE

Der Index für Wartungsteile vorn im Buch enthält die Bestellnummern, Seitenangaben, Mengenangaben und Informationen über den Einsatzbereich für die am häufigsten benötigten Ersatzteile. Die Angaben sind alphabetisch entsprechend der Teilebezeichnung geordnet.

6. INDEX

Der Index vorn im Buch enthält eine alphabetische Liste aller Informationseinheiten. Er enthält Seitenangaben für Schnellverweise auf detaillierte Abbildungen und Teillisten.

7. INDEX FÜR BESTELLNUMMERN

Hinten im Buch befindet sich ein numerischer Index, mit allen Bestellnummern und dem Hinweis auf die Seite, auf der sich die betreffende Abbildung befindet.

8. ÜBERSCHRIFTEN

Die Überschriften, die sich oben auf den Seiten der Informationseinheiten befinden, enthalten Bestellnummern, Ersatzteilbezeichnungen und zusätzliche beschreibende Informationen. Produkt-Ident- und Seriennummern in den Überschriften sollten zur Auswahl der richtigen Informationen für die betreffende Maschine verwendet werden. Die Überschriften enthalten außerdem Informationen über möglichen Außendienstersatz, mögliche Baugerätekomponenten und die Baugruppe, zu der das Teil gehört.



Neu im Parts Manual

Die erste Zeile einer Überschrift erscheint in einer größeren Schriftart, um den Anfang einer Informationseinheit zu kennzeichnen. Überschriften für zusätzliche Seiten, die zur Erläuterung einer Informationseinheit notwendig sind, erscheinen in normaler Schriftart und enthalten den Begriff "(contd.)".

9. NICHT EINZELN LIEFERBARE TEILE



Neu im Parts Manual

In einigen Fällen ist es notwendig nicht lieferbare Teile, die selbst mit einer eigenen Teilliste im Buch vertreten sind, aufzuführen. Die Bestellnummern dieser nicht einzeln lieferbaren Teile erscheinen kursiv, wodurch angezeigt wird, daß sie nur in Verbindung mit anderen Teilen lieferbar sind.

10. REFERENZNUMMER FÜR ERSATZTEILE



Neu im Parts Manual

Die Zahlen, die in der Spalte "Ref No" aufgeführt sind, stimmen mit den Zahlen in den beigefügten Abbildungen überein. Ein Buchstaben-Suffix kann zu einer Referenznummer hinzugefügt werden, um zu kennzeichnen, daß das Teil mit einer eigenen Teilliste im Buch aufgeführt ist. Die in der Spalte "Graphic Ref" angeführten Zahlen verweisen auf die Identifikationsnummer der Abbildung, die sich in der linken unteren Ecke der Abbildung befindet. Diese Nummer kann zusammen mit der Referenznummer des Teils angegeben werden, um die richtige Ersatzteilnummer zu ermitteln. Referenznummern können absichtlich weggelassen werden, da die Nummern der lieferbaren Ersatzteile ständig aktualisiert werden.

11. EINGERÜCKTE BEZEICHNUNGEN

Wenn eine Bezeichnung eingerückt ist, wird dadurch angezeigt, daß das Teil zu einer Baugruppe gehört, unter deren Bezeichnung es eingerückt ist.

12. REFERENZBUCHSTABEN

Falls erforderlich sind in den Abbildungen Referenzbuchstaben enthalten (z.B. A, B, C, usw.), die Leitungen und Kabelbäume von einem Punkt zum anderen verfolgen. Außerdem geben sie die Stelle an, an der getrennte Abbildungen fortgesetzt werden.

13. ABKÜRZUNGEN UND SYMBOLE

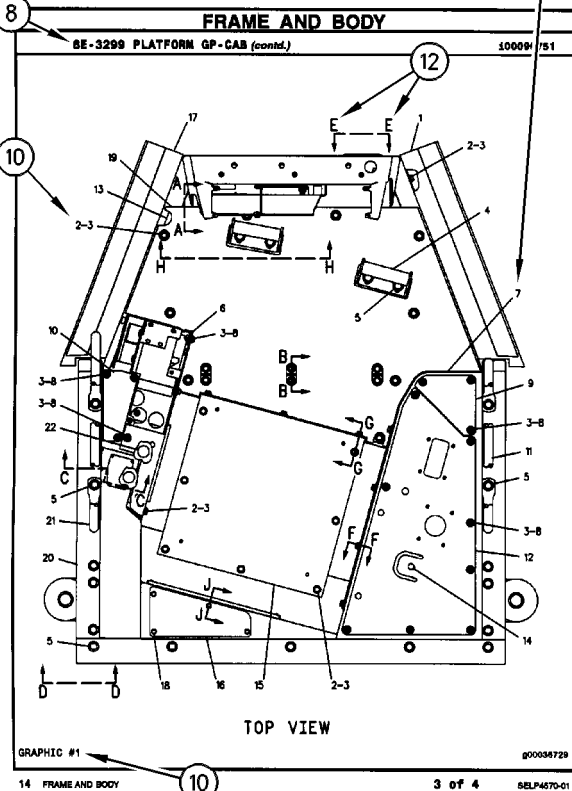
O.D. – Außendurchmesser
I.D. – Innendurchmesser
A – kein Teil dieser Gruppe
B – nach Bedarf verwenden
C – Hinweis auf eine Änderung
D – in Meter-Länge bestellen
E – in Zentimeter-Länge bestellen
F – nicht gezeigt
G – in Zoll-Länge bestellen
I – siehe "Hose Fabrication Guide"
M – metrisches Teil
R – werküberholtes Teil unter Umständen lieferbar
Y – separate Abbildung
Z – nicht einzeln lieferbar

ANMERKUNG:

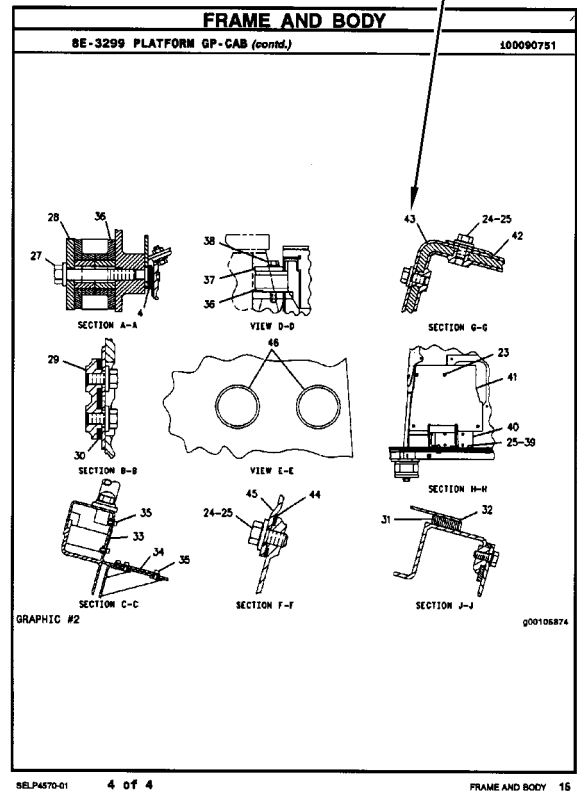
Ständig vorgenommene Verbesserungen und Weiterentwicklungen an Ihrer Maschine können Änderungen verursachen, die in der vorliegenden Ausgabe noch nicht berücksichtigt sind. Fragen zu Ihrer Caterpillar-Maschine oder diesem Ersatzteillbuch beantwortet Ihr Caterpillar-Händler.

ALLGEMEINE HINWEISE

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
	1		31-3882	1	PLATE AS				
	2		8E-3082	25	BOLT (3/8-16X.750IN)				
	3		8E-1078	41	WASHER-HARD (3MM THK)				
	4		8E-1464	2	SUPPORT AS-FOOT				
	5		8E-2229	18	BOLT (1/2-13X1IN)				
	6		8E-1978	18	WASHER-HARD (4MM THK)				
	7		8E-0136	1	COVER AS-LH				
	8		8E-0173	8	NUT-WELD (3/8-16 THD)				
	9		1P-0189	1	CLIP				
	10		78-2411	4	COVER				
	11		8E-0489	18	SCREW-HEAD (3/8-16X.875IN)				
	12		8E-0174	1	COVER				
	13		8E-0172	1	GASKET				
	14		8E-3249	1	GASKET				
	15		8E-3249	1	GASKET				
	16		8E-3249	1	GASKET				
	17		8E-3249	1	GASKET				
	18		8E-3249	1	GASKET				
	19		8E-3249	1	GASKET				
	20		8E-3249	1	GASKET				
	21		8E-3249	1	GASKET				
	22		8E-3249	1	GASKET				
	23		8E-3249	1	GASKET				
	24		8E-3249	1	GASKET				
	25		8E-3249	1	GASKET				
	26		8E-3249	1	GASKET				
	27		8E-3249	1	GASKET				
	28		8E-3249	1	GASKET				
	29		8E-3249	1	GASKET				
	30		8E-3249	1	GASKET				
	31		8E-3249	1	GASKET				
	32		8E-3249	1	GASKET				
	33		8E-3249	1	GASKET				
	34		8E-3249	1	GASKET				
	35		8E-3249	1	GASKET				
	36		8E-3249	1	GASKET				
	37		8E-3249	1	GASKET				
	38		8E-3249	1	GASKET				
	39		8E-3249	1	GASKET				
	40		8E-3249	1	GASKET				
	41		8E-3249	1	GASKET				
	42		8E-3249	1	GASKET				
	43		8E-3249	1	GASKET				
	44		8E-3249	1	GASKET				
	45		8E-3249	1	GASKET				
	46		8E-3249	1	GASKET				
	47		8E-3249	1	GASKET				
	48		8E-3249	1	GASKET				
	49		8E-3249	1	GASKET				
	50		8E-3249	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (contd.)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
	41		8E-2515	1	COVER				
	42		7T-0134	1	PLATE				
	43		7T-0136	1	GASKET				
	44		78-0724	1	GASKET				
	45		78-0723	1	COVER				
	46		8E-1959	2	PLUG-BUTTON				
H-METRIC PART									



INFORMAZIONI GENERALI

1. IDENTIFICAZIONE DELLA MACCHINA

Le macchine Caterpillar sono identificate dal numero di informazione del prodotto (PIN). Certi componenti inclusi nella macchina possono essere identificati dal numero di serie (S/N). I componenti che normalmente hanno un numero di serie sono i motori, le trasmissioni, le lame ed i ripper. La macchina ed il motore sono anche identificati dai numeri di configurazione (arrangement) ed in qualche caso dai numeri di modifica. Questi numeri sono riportati sulla targhetta di identificazione del prodotto e nella targhetta principale nel compartimento operatore.

I concessionari Caterpillar necessitano di tutti questi numeri per assicurare l'accurata identificazione delle parti di ricambio.

A partire dal primo trimestre del 2001, il Numero di Identificazione del Prodotto Caterpillar (PIN) passerà da 8 a 17 caratteri. Nell'impegno diretto ad offrire una modalità comune di identificazione delle apparecchiature, la Caterpillar ed altri produttori di macchinari da costruzione si stanno attivando per uniformarsi all'ultima versione dello standard di numerazione per la identificazione dei prodotti. I PIN delle macchine per movimento terra sono definiti nello standard ISO 10261. Il nuovo formato del PIN verrà usato per tutte le macchine e tutti i gruppi elettrogeni Caterpillar. Le targhette con il PIN e le stampigliature sui telai riporteranno il PIN a 17 caratteri. Il nuovo formato si presenta come segue:

*** C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 ***

1 2 3 4

Dove:

1. è l'identificativo mondiale della produzione Caterpillar (caratteri 1-3)
2. è il descrittivo della macchina (caratteri 4-8)
3. è un carattere di controllo (character 9)
4. è la Sezione di Identificazione della Macchina (MIS) o il numero sequenziale del prodotto (caratteri 10-17). Questi caratteri costituivano in precedenza il Numero di Serie.

Le macchine ed i gruppi elettrogeni prodotti prima del primo trimestre 2001 avranno ancora il PIN nel formato ad 8 caratteri.

Gli altri componenti quali motori, trasmissioni, assali, ecc., e le attrezzature, continueranno ad usare un Numero di Serie (S/N) ad 8 caratteri.

2. ORDINAZIONE DEI RICAMBI

ATTENZIONE

Quando servono ricambi per questo prodotto, la Caterpillar raccomanda di usare ricambi originali Caterpillar o ricambi con specifiche equivalenti che comprendono, ma non si limitano a, dimensioni fisiche, tipo, resistenza e materiale.

La mancata osservanza di questa avvertenza può comportare guasti prematuri, danni al prodotto, lesioni personali o la morte.

I ricambi originali della Caterpillar sono disponibili presso i concessionari Caterpillar in tutto il mondo. I magazzini ricambi dei concessionari sono sempre aggiornati e sono provvisti di tutti i ricambi di normale consumo necessari a proteggere l'investimento fatto nelle macchine Caterpillar. Alcuni concessionari offrono anche kit di riparazione o ricambi revisionati in modo che sia possibile selezionare l'alternativa di riparazione più adatta alla particolare situazione. Nell'ordinare i ricambi occorre indicare la quantità, il numero di riferimento, la descrizione ed il numero di serie/numero di identificazione del prodotto della macchina di cui si necessitano i ricambi.

3. ORGANIZZAZIONE DEL MANUALE DEI RICAMBI

Le informazioni sul prodotto in questo manuale sono presentate come "elementi di informazione" che rappresentano tutti i componenti per il modello specifico. La configurazione (arrangement) del motore ed il Gruppo sedile sono esempi degli elementi di informazione. Gli elementi di informazione sono organizzati in ordine alfabetico per descrizione e successivamente per numero di riferimento all'interno di ciascuna sezione principale del manuale.

4. TABELLA DEI CONTENUTI



Un indice (TOC) si trova all'inizio del manuale. Questo indice riporta ciascuna sezione del manuale con una lista completa di tutti gli elementi di informazione organizzati come appaiono nel manuale. I numeri delle pagine sono indicati per un rapido rilevamento delle illustrazioni di identificazione dettagliata delle parti e delle liste delle parti fornite.

5. INDICE DELLE PARTI DI MANUTENZIONE

L'indice delle parti di manutenzione, situato all'inizio del manuale, indica i numeri di riferimento delle parti di manutenzione più usate, le descrizioni, la quantità, l'uso ed il numero di pagina. Queste informazioni sono organizzate in ordine alfabetico per descrizione delle parti.

6. INDICE

L'indice situato vicino alla parte frontale del manuale è una lista in ordine alfabetico di tutti gli elementi di informazione inclusi in questo manuale. I numeri di pagina sono previsti per una ricerca rapida delle illustrazioni di identificazione dei ricambi e delle liste delle parti fornite.

7. INDICE DEI NUMERI DI RIFERIMENTO

Nella parte posteriore del manuale dei ricambi è riportato un indice numerico che include tutti i numeri di riferimento ed i corrispondenti numeri di pagina.

8. TITOLI

I titoli situati nella parte alta di ciascuna pagina dell'elemento di informazione identifica il numero di riferimento e la descrizione insieme alle informazioni descrittive addizionali. Le informazioni relative al PIN ed al S/N trovate in ciascun titolo devono essere usate per selezionare la corretta informazione per una macchina specifica. Sono anche indicate le opzioni di sostituzione, le identificazioni dei componenti degli accessori a richiesta e le informazioni di dove usati ("parte di").



La prima linea di un titolo è riportata in caratteri più larghi per indicare l'inizio di un elemento di informazione. I titoli per le pagine addizionali, che possono essere necessarie per illustrare un elemento di informazione, saranno portati con caratteri standard ed includeranno il termine (continua).

9. RICAMBI NON FORNITI



In certi casi è necessario riportare i ricambi non forniti che sono collegati ad una lista di livello inferiore di parti fornite. Questi numeri di riferimento di parti non fornite sono indicati in lettere italiane che significa che essi non sono disponibili.

10. NUMERI DI RIFERIMENTO DELLE LISTE DELLE PARTI



I numeri mostrati nella colonna Numero di riferimento corrispondono ai numeri usati nei grafici associati. Un suffisso alfabetico può essere aggiunto ad un numero di riferimento per identificare dei componenti di livello inferiore. I numeri mostrati nella colonna Riferimento Grafico si riferiscono a degli identificatori del numero di grafico riportato all'angolo in basso a sinistra di ciascuna illustrazione. Il numero di riferimento del grafico può essere usato insieme con il numero di riferimento del componente per determinare il corretto numero di riferimento. Ci potrebbero essere delle omissioni intenzionali del Numero di riferimento in una lista poichè le informazioni sono aggiornate per riflettere i numeri di riferimento aggiornati delle parti fornibili.

11. DESCRIZIONE DEL COMPONENTE LATERALE

Quando una descrizione è riportata lateralmente in una lista, essa indica che è parte di (inclusa in) un gruppo sotto il quale è posta lateralmente.

12. LETTERE DI RIFERIMENTO DELLE ILLUSTRAZIONI

Quando necessario, le illustrazioni contengono delle lettere di riferimento (A, B, C, ecc.) che sono usate per collegare un punto ad un altro. Esse sono anche usate per mostrare dove ricollegare le illustrazioni che sono state separate.

13. ABBREVIAZIONI E SIMBOLI

O.D. – Diametro esterno

I.D. – Diametro interno

A – Non fa parte di questo gruppo

B – Usato come richiesto

C – Cambiato rispetto al tipo precedente

D – Ordinare a metro

E – Ordinare in centimetro

F – Non mostrato

G – Ordinare in pollici

I – Vedere la guida di costruzione dei tubi

M – Parte metrica

R – Potrebbe essere disponibile un componente revisionato

Y – Illustrazione separata

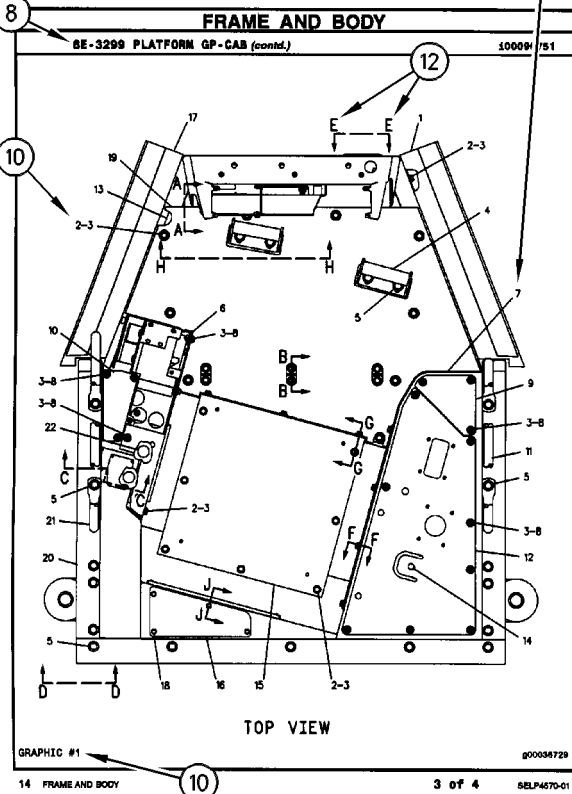
Z – Non fornito separatamente

NOTA

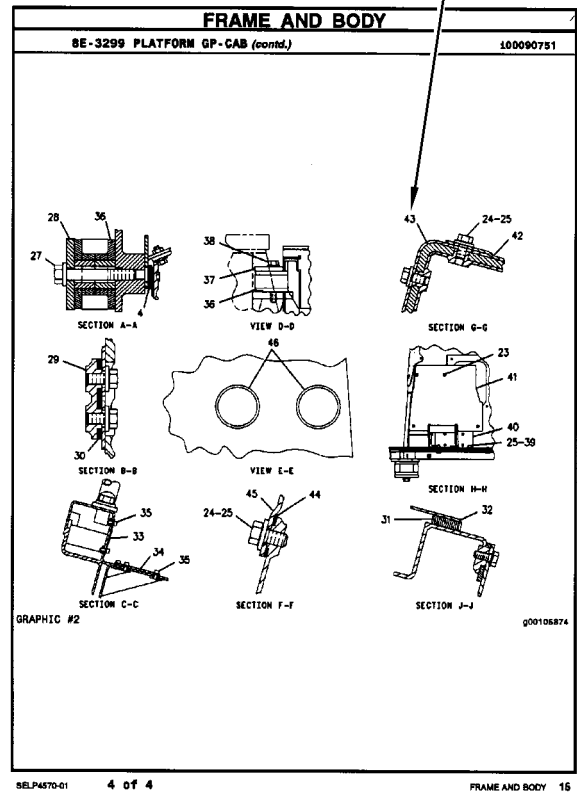
Il continuo miglioramento del disegno del prodotto può causare delle variazioni della vostra macchina che non sono incluse in questa pubblicazione. Ogni volta che esiste un dubbio relativamente alla macchina o a questa pubblicazione, rivolgersi al concessionario Caterpillar per le informazioni più aggiornate disponibili.

INFORMAZIONI GENERALI

FRAME AND BODY									
8E-3299 PLATFORM GP-CAB									
PIN 38X1-99999									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
1	1	1	31-3882	1	PLATE AS				
2	1	1	8E-3082	25	BOLT (3/8-16X.750IN)				
3	1	1	8E-1078	41	WASHER-HARD (3MM THK)				
4	1	1	8E-1464	2	SUPPORT AS-2007				
5	1	1	8E-3229	18	BOLT (1/2-13X1IN)				
6	1	1	8E-3229	18	WASHER-HARD (4MM THK)				
7	1	1	8E-3136	1	COVER AS-LH				
8	1	1	8E-3273	8	NUT-WELD (3/8-16 THD)				
9	1	1	1P-8189	1	CLIP				
10	1	1	78-3411	4	COVER				
11	1	1	8E-3489	18	SCREW-HEAD (3/8-16X.875IN)				
12	1	1	8E-3474	1	COVER				
13	1	1	8E-3474	1	GASKET				
14	1	1	8E-3249	1	GASKET				
15	1	1	8E-3489	1	GASKET				
16	1	1	8E-3489	1	GASKET				
17	1	1	8E-3489	1	GASKET				
18	1	1	8E-3489	1	GASKET				
19	1	1	8E-3489	1	GASKET				
20	1	1	8E-3489	1	GASKET				
21	1	1	8E-3489	1	GASKET				
22	1	1	8E-3489	1	GASKET				
23	1	1	8E-3489	1	GASKET				
24	1	1	8E-3489	1	GASKET				
25	1	1	8E-3489	1	GASKET				
26	1	1	8E-3489	1	GASKET				
27	1	1	8E-3489	1	GASKET				
28	1	1	8E-3489	1	GASKET				
29	1	1	8E-3489	1	GASKET				
30	1	1	8E-3489	1	GASKET				
31	1	1	8E-3489	1	GASKET				
32	1	1	8E-3489	1	GASKET				
33	1	1	8E-3489	1	GASKET				
34	1	1	8E-3489	1	GASKET				
35	1	1	8E-3489	1	GASKET				
36	1	1	8E-3489	1	GASKET				
37	1	1	8E-3489	1	GASKET				
38	1	1	8E-3489	1	GASKET				
39	1	1	8E-3489	1	GASKET				
40	1	1	8E-3489	1	GASKET				



FRAME AND BODY									
8E-3299 PLATFORM GP-CAB (cont'd)									
100090751									
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 PRODUCT LEVEL	SEE PAGE	100090751	
1	1	1	8E-3515	1	COVER				
2	1	1	7T-0134	1	PLATE				
3	1	1	7T-0134	1	GASKET				
4	1	1	78-8724	1	GASKET				
5	1	1	78-8723	1	COVER				
6	1	1	8E-1859	2	PLUG-BUTTON				
H-METRIC PART									



REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

As an option when making repairs consider Caterpillar Remanufactured Components. Components that are available through the Caterpillar Remanufactured Program are identified three ways in the parts book:

- with the letter R in the note field of the parts list
- with an R* at the beginning of the first line of the caption
- with an *R at the end of the first line of the caption

Typical components included in the Remanufacturing Program include:

ALTERNATORS
CONNECTING RODS
CRANKSHAFTS - UNDERSIZE
CRANKSHAFTS - UPGRADE TO NEW
CYLINDER HEADS
ELECTRONIC CONTROL MODULES (ECM)
ELECTRONIC SENSORS
FUEL INJECTORS
FUEL NOZZLES
FUEL PUMPS
GOVERNORS
OIL PUMPS
PISTONS
SHORT BLOCKS
STARTERS
TURBOCHARGERS - COMPLETE
TURBOCHARGER CARTRIDGES
WATER PUMPS

Caterpillar Remanufactured engines for many engine arrangements are also available.

OPTIONS DE RÉPARATION

COMPOSANTS RÉNOVÉS

Comme option de réparation, considérer les composants rénovés Caterpillar. Les composants disponibles dans le cadre du programme Caterpillar de composants rénovés sont identifiés de trois façons dans le catalogue de pièces:

- avec la lettre "R" dans l'espace note de la liste des pièces
- avec R* au début de la première ligne des légendes
- avec *R à la fin de la première ligne des légendes

Les composants suivants figurent parmi les composants typiques du programme de rénovation:

ALTERNATEURS
BIELLES
VILEBREQUINS - SOUS-DIMENSIONNÉS
VILEBREQUINS - REMIS À NEUF
CULASSES
MODULES DE COMMANDE ÉLECTRONIQUE (ECM)
CAPTEURS ÉLECTRONIQUES
INJECTEURS
TÊTES D'INJECTEURS
POMPES À CARBURANT
RÉGULATEURS
POMPES À HUILE
PISTONS
BLOCS EMBIELLÉS
DÉMARREURS
TURBOCOMPRESSEURS - COMPLETS
CARTOUCHES DE TURBOCOMPRESSEUR
POMPES À EAU

Des moteurs rénovés sont aussi disponibles pour plusieurs versions de moteur.

ALTERNATIVAS DE REPARACIÓN

COMPONENTES REMANUFACTURADOS

Al hacer reparaciones, tenga en cuenta la opción de Componentes Remanufacturados Caterpillar. Los componentes que están disponibles por medio del programa de Productos Remanufacturados Caterpillar se identifican de tres maneras en el manual de piezas:

- con la letra R en el espacio de Nota de la lista de piezas
- con una R* al comienzo de la primera línea de la leyenda
- con una *R al final de la primera línea de la leyenda

Los componentes que se incluyen típicamente en el Programa de Productos Remanufacturados son:

ALTERNADORES
BIELAS
CIGÜEÑALES - BAJOMEDIDA
CIGÜEÑALES - REMANUFACTURADOS A NUEVO
CULATAS
MÓDULOS DE CONTROL ELECTRÓNICO (ECM)
SENSORES ELECTRONICOS
INYECTORES
BOQUILLAS
BOMBAS DE COMBUSTIBLE
REGULADORES
BOMBAS DE ACEITE
PISTONES
MONOBLOQUES
MOTORES DE ARRANQUE
TURBOCOMPRESORES - COMPLETOS
NÚCLEOS DE TURBOCOMPRESOR
BOMBAS DE AGUA

También hay disponibles motores Remanufacturados Caterpillar para muchas de las configuraciones de motores.

ALTERNATIVAS DE REPARO

COMPONENTES REMANUFATURADOS

Considere o uso de Componentes Remanufaturados Caterpillar ao efetuar reparos. Os componentes disponíveis através do Programa de Remanufatura Caterpillar são identificados de três formas no manual de peças:

- com um R na área da nota da lista de peças
- com um R* no princípio da primeira linha da legenda
- com um *R no final da primeira linha da legenda

Os componentes típicos que constam no Programa de Remanufatura incluem:

ALTERNADORES
BIELAS
VIRABREQUINS - SUBMEDIDAS
VIRABREQUINS - ATUALIZAÇÃO
CABEÇOTES
MÓDULOS DE CONTROLE ELETRÔNICO (ECM)
SENSORES ELETRÔNICOS
INJETORES DE COMBUSTÍVEL
BICOS DE ABASTECIMENTO DE COMBUSTÍVEL
BOMBAS DE COMBUSTÍVEL
GOVERNADORES
BOMBAS DE ÓLEO
PISTÕES
BLOCOS BÁSICOS DO MOTOR
MOTORES DE PARTIDA
TURBOALIMENTADORES - COMPLETOS
CARTUCHOS DE TURBOALIMENTADORES
BOMBAS D'ÁGUA

Motores Remanufaturados Caterpillar também encontram-se disponíveis para diversos arranjos de motor.

REPARATURALTERNATIVEN

WERKÜBERHOLTE AT-PRODUKTE

Bei Reparaturen sollten werküberholte AT-Produkte von Caterpillar in Betracht gezogen werden. Die durch das AT-Programm von Caterpillar erhältlichen Teile sind im Parts Book auf drei verschiedene Arten gekennzeichnet:

- mit dem Buchstaben R in der Spalte NOTE der Ersatzteilliste
- mit einem R* am Anfang der ersten Zeile der Überschrift
- mit einem *R am Ende der ersten Zeile der Überschrift

Das AT-Programm umfaßt u.a. folgende Produkte:

DREHSTROMGENERATOREN
PLEUELSTANGEN
KURBELWELLEN - MIT UNTERMASSE
KURBELWELLEN - MIT ORIGINALMASSE
ZYLINDERKÖPFE
ELEKTRONISCHE STEUEREINHEITEN (EMC)
ELEKTRONISCHE SENSOREN
PUMPENDÜSEN
EINSPRITZDÜSEN
KRAFTSTOFFPUMPEN
DREHZAHLREGLER
ÖLPUMPEN
KOLBEN
TEILMOTOREN
ANLASSER
TURBOLADER - KOMPLETT
TURBOLADERLAUFZEUGE
KÜHLWASSERPUMPEN

Viele Motoren können durch werküberholte AT-Motoren von Caterpillar ersetzt werden.

ALTERNATIVE DI RIPARAZIONE

COMPONENTI RICOSTRUITI

Come opzione di riparazione, considerare i componenti Caterpillar rifabbricati. I componenti disponibili tramite il programma di ricostruzione Caterpillar sono contrassegnati in tre modi diversi nel libro dei ricambi:

- mediante la lettera R nel settore delle note dell'elenco dei ricambi
- mediante la lettera R* all'inizio della prima riga della leggenda
- mediante la lettera *R alla fine della prima riga della leggenda

Tra i componenti tipici inclusi nel programma di rifabbricazione ci sono:

ALTERNATORI
BIELLE
ALBERI A GOMITO - MINORATI
ALBERI A GOMITO - RIPRISTINATI A NUOVO
TESTATE MOTORE
MODULI DI COMANDO ELETTRONICI (ECM)
SENSORI ELETTRONICI
INIETTORI DI COMBUSTIBILE
UGELLI PER COMBUSTIBILE
POMPE PER COMBUSTIBILE
REGOLATORI
POMPE OLIO
PISTONI
MONOBLOCCHI CORTI
MOTORINI DI AVVIAMENTO
TURBOCOMPRESSORI - COMPLETI
CARTUCCE DI TURBOCOMPRESSORI
POMPE ACQUA

I motori Caterpillar rifabbricati sono ora disponibili per molte versioni di motori.

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
FILTER AS-PRIMARY	131-8822	1	AIR CLEANER GP	77
FILTER AS-SECONDARY	131-8821	1	AIR CLEANER GP	77
BASIC ENGINE				
CAP AS-OIL FILLER	2W-6225	1	COVER GP-VALVE MECHANISM	17
COCK AS	5I-8015	1	PAN GP-OIL	40
GASKET	119-2940	1	COVER GP-VALVE MECHANISM	17
GASKET-CYLINDER HEAD	144-3450	1	CYLINDER HEAD GP	23
PULLEY-ALTERNATOR	1W-4369	1	PULLEY GP	45
V-BELT SET (INCLUDES 2 BELTS)	4N-2532	1	PULLEY GP	45
V-BELT (WATER PUMP)	036-6775	1	DRIVE GP-WATER PUMP	29
COOLING SYSTEM				
CAP AS	171-3369	1	RADIATOR & HYD OIL COOLER GP	70
CAP AS-RADIATOR	184-3949	1	RADIATOR & HYD OIL COOLER GP	74
CAP-DUST	6V-0852	1	LINES GP-WATER	64
FILTER-WATER	119-3025	1	PUMP GP-WATER	68
REGULATOR-WATER TEMPERATURE	126-5869	1	LINES GP-WATER	64
ELECTRICAL AND STARTING SYSTEM				
BATTERY	3T-5760	2	BATTERY & WIRING GP	124
(MAINTENANCE FREE) (12 VOLT)		2	BATTERY & WIRING GP	126
FUSE (10 AMP)	113-8490	24	PANEL GP-CIRCUIT BREAKER	151
FUSE (15 AMP)	113-8491	8	PANEL GP-CIRCUIT BREAKER	150
FUSE (5 AMP)	141-2759	7	PANEL GP-CIRCUIT BREAKER	150
KEY (BATTERY DISCONNECT)	8H-5306	1	SWITCH GP-DISCONNECT	177
LAMP (24 VOLT)(65 WATT)	9X-3463	1	LAMP GP-FLOOD	140
		1	LAMP GP-FLOOD	141
		1	LAMP GP-FLOOD	143
LENS AS	106-0001	1	LAMP GP-FLOOD	140
	144-5284	1	LAMP GP-FLOOD	141
FRAME AND BODY				
FITTING-GREASE	3B-8489	1	GEAR & BEARING GP-SWING	218
		1	GEAR & BEARING GP-SWING	220
		1	GEAR & BEARING GP-SWING	222
PADLOCK GP	5P-8502	2	HOOD & GUARD GP	231
FUEL SYSTEM				
CAP AS-FUEL TANK	7X-7700	1	TANK GP-FUEL	116
FILTER AS-FUEL	1R-0751	1	LINES GP-FUEL FILTER	106
	1R-0753	1	LINES GP-FUEL FILTER	106
FILTER AS-WATER SEP & FUEL	1R-0770	1	FILTER GP-WATER SEP & FUEL	95
INSERT-FUEL FILTER	112-6523	1	BASE GP-FUEL FILTER	88
	139-3531	1	BASE GP-FUEL FILTER	88
PADLOCK GP	5P-8502	1	TANK & MTG GP-FUEL	115
SCREEN AS	7C-4483	1	GOVERNOR GP-UNIT INJECTOR	98
STRAINER-FUEL	9P-7121	1	TANK GP-FUEL	116

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
HYDRAULIC SYSTEM				
BREATHER AS	2W-9162	1	BREATHER GP	279
	4I-7527	1	DRIVE GP-SWING	330
CAP AS (1-3/16-12 THD)	6V-9832	4	LINES GP-STICK	462
CAP-DUST	6V-0852	5	LINES GP-PILOT	412
		5	LINES GP-PILOT	426
		6	LINES GP-PILOT	432
		5	LINES GP-PILOT	448
		1	TANK & FILTER GP-HYDRAULIC	500
	8C-3451	1	TANK & FILTER GP-HYDRAULIC	500
CAP-PRESSURE VALVE	4I-3745	1	TANK & FILTER GP-HYDRAULIC	500
FILTER AS-OIL (CASE DRAIN)	093-7521	1	FILTER GP-OIL	334
FILTER ELEMENT AS-OIL (HYDRAULIC) (RETURN)	126-2081	1	FILTER GP-OIL	338
FILTER-OIL	126-1813	1	TANK & FILTER GP-HYDRAULIC	500
FITTING AS (QUICK DISCONNECT)	6V-3965	5	LINES GP-PILOT	426
FITTING-GREASE	3B-8489	1	CYLINDER & SEAL GP-BOOM	302
		1	CYLINDER & SEAL GP-BOOM	303
		2	CYLINDER & SEAL GP-BUCKET	304
		2	CYLINDER GP-BUCKET	312
FITTING-GREASE (1/4-18 THD)	3B-8490	1	CYLINDER & SEAL GP-BOOM	301
FITTING-GREASE (1/8-27 THD)	3B-8489	1	CYLINDER & SEAL GP	299
		2	CYLINDER & SEAL GP	300
		1	CYLINDER & SEAL GP-BOOM	301
GASKET	7C-1159	1	BREATHER GP	279
PLUG-DRAIN	4B-7739	1	TANK & FILTER GP-HYDRAULIC	500
SEAL-O-RING	123-2003	2	FILTER GP-OIL	336
SEAL-O-RING (133.66MM ID)	5H-5672	1	SCREEN GP	496
IMPLEMENTS				
FITTING-GREASE	3B-8489	1	BOOM GP	592
		5	LINES GP-GREASE	596
		4	LINKAGE GP-BUCKET	600
		3	STICK GP	610
FITTING-GREASE (1/8-27 THD)	3B-8489	2	LINES GP-GREASE	595
		2	STICK GP	606
		2	STICK GP	608
LUBRICATION SYSTEM				
CAP-DUST	8C-3445	1	FILTER GP-ENGINE OIL	50
FILTER AS-ENGINE OIL	1R-0739	1	FILTER GP-ENGINE OIL	50
GASKET	7C-7490	1	FILTER GP-ENGINE OIL	50
HOSE-DISPOSAL	6I-1545	1	FUMES DISPOSAL GP	52
OPERATOR STATION				
FILTER	4I-1278	1	DUCT GP-AIR	645
FITTING-GREASE	3B-8489	2	RISER GP-CAB	673
		2	RISER GP-CAB	674
KEY	5P-8500	2	LITERATURE GP	665
V-BELT	5M-8135	1	COMPRESSOR GP-REFRIGERANT	634
SERVICE EQUIPMENT AND SUPPLIES				
KEY	5P-8500	1	PADLOCK GP	691

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
WORK TOOLS				
FITTING-GREASE (1/8-27 THD)	3B-8489	8	GRAPPLE GP	612
		8	GRAPPLE GP	614

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CHÂSSIS ET BENNE				
CADENAS (ASS)	5P-8502	2	CAPOT ET PROTECTION (ASS)	231
GRAISSEUR	3B-8489	1	ENGRENAGE ET PALIER D'ORIENTATION	218
		1	ENGRENAGE ET PALIER D'ORIENTATION	220
		1	ENGRENAGE ET PALIER D'ORIENTATION	222
CIRCUIT D'ADMISSION D'AIR ET D'ÉCHAPPEMENT				
FILTRE PRINCIPAL (ENS)	131-8822	1	FILTRE A AIR (ASS)	77
FILTRE SECONDAIRE (ENS)	131-8821	1	FILTRE A AIR (ASS)	77
CIRCUIT DE CARBURANT				
BOUCHON DE RÉSERVOIR DE CARBURANT (ENS)	7X-7700	1	RÉSERVOIR DE CARBURANT (ASS)	116
CADENAS (ASS)	5P-8502	1	RÉSERVOIR DE CARBURANT ET MONTAGE (ASS)	115
ÉCRAN (ENS)	7C-4483	1	RÉGULATEUR - INJECTEUR (ASS)	98
FILTRE - SÉPARATEUR D'EAU ET DE CARBURANT (ENS)	1R-0770	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	95
FILTRE À CARBURANT	9P-7121	1	RÉSERVOIR DE CARBURANT (ASS)	116
FILTRE A CARBURANT (ENS)	1R-0751	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	106
	1R-0753	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	106
INTERCALAIRE DE FILTRE À CARBURANT	112-6523	1	BASE DE FILTRE À CARBURANT (ASS)	88
	139-3531	1	BASE DE FILTRE À CARBURANT (ASS)	88
CIRCUIT DE GRAISSAGE				
FILTRE A HUILE MOTEUR (ENS)	1R-0739	1	FILTRE À HUILE MOTEUR (ASS)	50
JOINT PLAT	7C-7490	1	FILTRE À HUILE MOTEUR (ASS)	50
PARE-POUSSIÈRE	8C-3445	1	FILTRE À HUILE MOTEUR (ASS)	50
TUYAU D'ÉCHAPPEMENT	6I-1545	1	DISPOSITIF D'ÉVACUATION DES VAPEURS DE CARTER	52
CIRCUIT DE REFROIDISSEMENT				
BOUCHON DE RADIATEUR (ENS)	184-3949	1	RADIATEUR ET REFROIDISSEUR D'HUILE HYDRAULIQUE (ASS)	74
CHAPEAU (ENS)	171-3369	1	RADIATEUR ET REFROIDISSEUR D'HUILE HYDRAULIQUE (ASS)	70
FILTRE -EAU	119-3025	1	POMPE A EAU (ASS)	68
PARE-POUSSIÈRE	6V-0852	1	CANALISATIONS D'EAU (ASS)	64
THERMOSTAT-TEMPÉRATURE D'EAU	126-5869	1	CANALISATIONS D'EAU (ASS)	64

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT ÉLECTRIQUE ET DE DÉMARRAGE				
AMPOULE (24 VOLTS)(65 WATTS)	9X-3463	1	LAMPE - PHARE (ASS)	140
		1	LAMPE - PHARE (ASS)	141
		1	LAMPE - PHARE (ASS)	143
BATTERIE (SANS ENTRETIEN) (12 VOLTS)	3T-5760	2	BATTERIE ET CÂBLAGE	124
		2	BATTERIE ET CÂBLAGE	126
CLÉ (COUPE-BATTERIE)	8H-5306	1	ROBINET DE BATTERIE (ASS)	177
FUSIBLE (10A)	113-8490	24	DISJONCTEUR DU PANNEAU DE COMMANDE (ASS)	151
FUSIBLE (15A)	113-8491	8	DISJONCTEUR DU PANNEAU DE COMMANDE (ASS)	150
FUSIBLE (5A)	141-2759	7	DISJONCTEUR DU PANNEAU DE COMMANDE (ASS)	150
LENTILLE (ENS)	106-0001	1	LAMPE - PHARE (ASS)	140
	144-5284	1	LAMPE - PHARE (ASS)	141

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIECÈS	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT HYDRAULIQUE				
BOUCHON DE VIDANGE	4B-7739	1	RÉSERVOIR HYDRAULIQUE ET FILTRE (ASS)	500
CHAPEAU - LIMITEUR DE PRESSION	4I-3745	1	RÉSERVOIR HYDRAULIQUE ET FILTRE (ASS)	500
CHAPEAU (ENS) (FILET 1-3/16-12)	6V-9832	4	CANALISATIONS DE BRAS (ASS)	462
ÉLÉMENT DE FILTRE À HUILE (ENS)	126-2081	1	FILTRE A HUILE (ASS)	338
(HYDRAULIQUE) (RETOUR)				
FILTRE À HUILE	126-1813	1	RÉSERVOIR HYDRAULIQUE ET FILTRE (ASS)	500
FILTRE À HUILE (ENS)	093-7521	1	FILTRE A HUILE (ASS)	334
(RETOUR AU CARTER)				
GRAISSEUR	3B-8489	1	VERIN DE FLECHE ET JOINT (ASS)	302
		1	VERIN DE FLECHE ET JOINT (ASS)	303
		2	VERIN DE GODET (ASS)	312
		2	VÉRIN DE GODET ET JOINT (ASS)	304
GRAISSEUR (ENS)	6V-3965	5	CANALISATIONS A COMMANDE PILOTE (ASS)	426
(DÉBRANCHEMENT RAPIDE)				
GRAISSEUR (FILET 1/4-18)	3B-8490	1	VERIN DE FLECHE ET JOINT (ASS)	301
GRAISSEUR (FILET 1/8-27)	3B-8489	1	VERIN DE FLECHE ET JOINT (ASS)	301
		1	VÉRIN ET JOINT (ASS)	299
		2	VÉRIN ET JOINT (ASS)	300
JOINT PLAT	7C-1159	1	RENIFLARD (ASS)	279
JOINT TORIQUE	123-2003	2	FILTRE A HUILE (ASS)	336
JOINT TORIQUE (DIA INT 133,66MM)	5H-5672	1	ECRAN (ASS)	496
PARE-POUSSIÈRE	6V-0852	5	CANALISATIONS A COMMANDE PILOTE (ASS)	412
		5	CANALISATIONS A COMMANDE PILOTE (ASS)	426
		6	CANALISATIONS A COMMANDE PILOTE (ASS)	432
		5	CANALISATIONS A COMMANDE PILOTE (ASS)	448
		1	RÉSERVOIR HYDRAULIQUE ET FILTRE (ASS)	500
	8C-3451	1	RÉSERVOIR HYDRAULIQUE ET FILTRE (ASS)	500
RENIFLARD (ENS)	2W-9162	1	RENIFLARD (ASS)	279
	4I-7527	1	ENTRAÎNEMENT D'ORIENTATION (ASS)	330
ÉQUIPEMENTS				
GRAISSEUR	3B-8489	3	BRAS (ASS)	610
		5	CANALISATIONS DE GRAISSAGE (ASS)	596
		1	FLECHE (ASS)	592
		4	TRINGLERIE DE GODET (ASS)	600
GRAISSEUR (FILET 1/8-27)	3B-8489	2	BRAS (ASS)	606
		2	BRAS (ASS)	608
		2	CANALISATIONS DE GRAISSAGE (ASS)	595
MATÉRIEL ET FOURNITURES D'ENTRETIEN				
CLÉ	5P-8500	1	CADENAS (ASS)	691

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIECÈS	QTÉ	DOMAINE D'APPLICATION	PAGE
MOTEUR STANDARD				
BOUCHON DE GOULOTTE DE REMPLISSAGE D'HUILE MOTEUR	2W-6225	1	CACHE-SOUPAPES (ASS)	17
COURROIE TRAPEZOIDALE (POMPE À EAU)	036-6775	1	ENTRAÎNEMENT DE POMPE À EAU (ASS)	29
JEU DE COURROIES TRAPEZOIDALES (COMPREND 2 COURROIES)	4N-2532	1	POULIE (ASS)	45
JOINT DE CULASSE	144-3450	1	CULASSE (ASS)	23
JOINT PLAT	119-2940	1	CACHE-SOUPAPES (ASS)	17
POULIE D'ALTERNATEUR	1W-4369	1	POULIE (ASS)	45
ROBINET (ENS)	5I-8015	1	HUILE MOTEUR - CARTER (ASS)	40
OUTILS DE TRAVAIL				
GRAISSEUR (FILET 1/8-27)	3B-8489	8	PINCE - (ASS)	612
		8	PINCE - (ASS)	614
POSTE DE CONDUITE				
CLÉ	5P-8500	2	LITTÉRATURE (ASS)	665
COURROIE TRAPEZOIDALE	5M-8135	1	COMPRESSEUR DE REFRIGERANT (ASS)	634
FILTRE	4I-1278	1	GAINE D'AIR (ASS)	645
GRAISSEUR	3B-8489	2	REHAUSSE DE CABINE (ASS)	673
		2	REHAUSSE DE CABINE (ASS)	674

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
BASTIDOR Y CARROCERIA				
CANDADO (GR)	5P-8502	2	CAPO Y PROTECTOR (GR)	231
CONEXIÓN DE ENGRASE	3B-8489	1	ENGRANAJE DE ROTACIÓN Y COJINETE (GR)	218
		1	ENGRANAJE DE ROTACIÓN Y COJINETE (GR)	220
		1	ENGRANAJE DE ROTACIÓN Y COJINETE (GR)	222
COMPARTIMIENTO DEL OPERADOR				
CONEXIÓN DE ENGRASE	3B-8489	2	ELEVADOR DE LA CABINA (GR)	673
		2	ELEVADOR DE LA CABINA (GR)	674
CORREA TRAPEZOIDAL	5M-8135	1	COMPRESOR DE REFRIGERANTE (GR)	634
FILTRO	4I-1278	1	CONDUCTO DE AIRE (GR)	645
LLAVE	5P-8500	2	PUBLICACIONES (GR)	665
HERRAMIENTAS				
CONEXIÓN DE ENGRASE (ROSCA DE 1/8-27)	3B-8489	8	GARRA (GR)	612
		8	GARRA (GR)	614
HERRAMIENTAS Y EQUIPO DE SERVICIO				
LLAVE	5P-8500	1	CANDADO (GR)	691
IMPLEMENTOS				
CONEXIÓN DE ENGRASE	3B-8489	3	GRUPO ACCESORIO DE BRAZO	610
		1	PLUMA (GR)	592
		5	TUBERÍAS DE ENGRASE (GR)	596
		5	VARILLAJE DEL CUCHARÓN (GR)	600
CONEXIÓN DE ENGRASE (ROSCA DE 1/8-27)	3B-8489	2	GRUPO ACCESORIO DE BRAZO	606
		2	GRUPO ACCESORIO DE BRAZO	608
		2	TUBERÍAS DE ENGRASE (GR)	595
MOTOR BÁSICO				
CORREA TRAPEZOIDAL (BOMBA DE AGUA)	036-6775	1	MANDO DE LA BOMBA DE AGUA (GR)	29
EMPAQUETADURA	119-2940	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	17
EMPAQUETADURA DE LA CULATA	144-3450	1	CULATA DE CILINDROS (GR)	23
GRIFO (CONJ)	5I-8015	1	CÁRTER - COLECTOR DEL (GR)	40
JUEGO DE CORREAS TRAPEZOIDALES (INCLUYE 2 CORREAS)	4N-2532	1	POLEA (GR)	45
POLEA DEL ALTERNADOR	1W-4369	1	POLEA (GR)	45
TAPA DEL TUBO DE LLENADO DE ACEITE (CONJ)	2W-6225	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	17
SISTEMA DE ADMISION Y ESCAPE DE AIRE				
FILTRO PRIMARIO (CONJ)	131-8822	1	FILTRO DE AIRE (GR)	77
FILTRO SECUNDARIO (CONJ)	131-8821	1	FILTRO DE AIRE (GR)	77

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE COMBUSTIBLE				
CANDADO (GR)	5P-8502	1	TANQUE DE COMBUSTIBLE Y GRUPO DE MONTAJE	115
COLADOR DE COMBUSTIBLE	9P-7121	1	COMBUSTIBLE - TANQUE DE (GR)	116
ENCASTRE DE FILTRO DE COMBUSTIBLE	112-6523	1	BASE DEL FILTRO DE COMBUSTIBLE (GR)	88
	139-3531	1	BASE DEL FILTRO DE COMBUSTIBLE (GR)	88
FILTRO DE COMBUSTIBLE (CONJ)	1R-0751	1	TUBERÍAS DEL FILTRO DE COMBUSTIBLE	106
	1R-0753	1	TUBERÍAS DEL FILTRO DE COMBUSTIBLE	106
FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (CONJ)	1R-0770	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	95
PANTALLA (CONJ)	7C-4483	1	BOMBA INYECTORA DEL REGULADOR (GR)	98
TAPA DEL TANQUE DE COMBUSTIBLE (CONJ)	7X-7700	1	COMBUSTIBLE - TANQUE DE (GR)	116
SISTEMA DE ENFRIAMIENTO				
FILTRO DE AGUA	119-3025	1	BOMBA DE AGUA (GR)	68
REGULADOR DE TEMPERATURA DEL AGUA	126-5869	1	TUBERÍAS DEL AGUA (GR)	64
TAPA CONTRA EL POLVO	6V-0852	1	TUBERÍAS DEL AGUA (GR)	64
TAPA DE RADIADOR (CONJ)	184-3949	1	RADIADOR Y ENFRIADOR DE ACEITE HIDRÁULICO (GR)	74
TAPÓN (CONJ)	171-3369	1	RADIADOR Y ENFRIADOR DE ACEITE HIDRÁULICO (GR)	70
SISTEMA DE LUBRICACIÓN				
EMPAQUETADURA	7C-7490	1	FILTRO DE ACEITE DEL MOTOR (GR)	50
FILTRO DE ACEITE DEL MOTOR (CONJ)	1R-0739	1	FILTRO DE ACEITE DEL MOTOR (GR)	50
TAPA CONTRA EL POLVO	8C-3445	1	FILTRO DE ACEITE DEL MOTOR (GR)	50
TUBO DE ESCAPE	6I-1545	1	ESCAPE DE GASES (GR)	52
SISTEMA ELÉCTRICO Y DE ARRANQUE				
BATERÍA (LIBRE DE MANTENIMIENTO)(12 VOLTIOS)	3T-5760	2	BATERÍA Y CABLES (GR)	124
		2	BATERÍA Y CABLES (GR)	126
FUSIBLE (10 A)	113-8490	24	PANEL DE DISYUNTORES (GR)	151
FUSIBLE (15 A)	113-8491	8	PANEL DE DISYUNTORES (GR)	150
FUSIBLE (5 AMP)	141-2759	7	PANEL DE DISYUNTORES (GR)	150
LÁMPARA (24 VOLTIOS)(65 VATIOS)	9X-3463	1	REFLECTOR (GR)	140
		1	REFLECTOR (GR)	141
		1	REFLECTOR (GR)	143
LLAVE (DESCONECTAR BATERIA)	8H-5306	1	DISYUNTOR (GR)	177
VIDRIO (CONJ)	106-0001	1	REFLECTOR (GR)	140
	144-5284	1	REFLECTOR (GR)	141

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA HIDRÁULICO				
CONEXION (CONJ) (DESCONEXION RAPIDA)	6V-3965	5	TUBERÍAS CON SERVOMANDO (GR)	426
CONEXIÓN DE ENGRASE	3B-8489	2	CILINDRO DE CUCHARÓN (GR)	312
		1	CILINDRO DE LA PLUMA Y SELLO (GR)	302
		1	CILINDRO DE LA PLUMA Y SELLO (GR)	303
		2	CILINDRO DEL CUCHARÓN Y SELLO (GR)	304
CONEXIÓN DE ENGRASE (ROSCA DE 1/8-27)	3B-8489	1	CILINDRO DE LA PLUMA Y SELLO (GR)	301
		1	CILINDRO Y SELLO (GR)	299
		2	CILINDRO Y SELLO (GR)	300
CONEXIÓN DE ENGRASE (1/4-18 ROSCA)	3B-8490	1	CILINDRO DE LA PLUMA Y SELLO (GR)	301
ELEMENTO DE FILTRO DE ACEITE (CONJ) (HIDRAULICO) (RETORNO)	126-2081	1	FILTRO DE ACEITE (GR)	338
EMPAQUETADURA	7C-1159	1	RESPIRADERO (GR)	279
FILTRO DE ACEITE	126-1813	1	TANQUE Y FILTRO HIDRÁULICOS (GR)	500
FILTRO DE ACEITE (CONJ) (DRENAJE DE LA CAJA)	093-7521	1	FILTRO DE ACEITE (GR)	334
RESPIRADERO (CONJ)	2W-9162	1	RESPIRADERO (GR)	279
	4I-7527	1	MANDO DE ROTACIÓN (GR)	330
SELLO ANULAR	123-2003	2	FILTRO DE ACEITE (GR)	336
SELLO ANULAR (133,66MM DI)	5H-5672	1	REJILLA (GR)	496
TAPA CONTRA EL POLVO	6V-0852	1	TANQUE Y FILTRO HIDRÁULICOS (GR)	500
		5	TUBERÍAS CON SERVOMANDO (GR)	412
		5	TUBERÍAS CON SERVOMANDO (GR)	426
		6	TUBERÍAS CON SERVOMANDO (GR)	432
		5	TUBERÍAS CON SERVOMANDO (GR)	448
	8C-3451	1	TANQUE Y FILTRO HIDRÁULICOS (GR)	500
TAPA DE VALVULA DE PRESIÓN	4I-3745	1	TANQUE Y FILTRO HIDRÁULICOS (GR)	500
TAPÓN (CONJ) (ROSCA 1-3/16-12)	6V-9832	4	TUBERÍAS DEL BRAZO (GR)	462
TAPÓN DE DRENAJE	4B-7739	1	TANQUE Y FILTRO HIDRÁULICOS (GR)	500

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
ACESSÓRIOS				
GRAXEIRA	3B-8489	3	BRAÇO	610
		4	ELOS DE ARTICULAÇÃO DA CAÇAMBA	600
		1	LANÇA	592
		5	TUBOS - GRAXA	596
GRAXEIRA (ROSCA 1/8-27 POL)	3B-8489	2	BRAÇO	606
		2	BRAÇO	608
		2	TUBOS - GRAXA	595
CHASSI E CARROCERIA				
CADEADO	5P-8502	2	CAPÔ E PROTETOR	231
GRAXEIRA	3B-8489	1	ENGRENAGEM E MANCAL DE GIRO	218
		1	ENGRENAGEM E MANCAL DE GIRO	220
		1	ENGRENAGEM E MANCAL DE GIRO	222
EQUIPAMENTOS DE SERVIÇO E SUPRIMENTOS				
CHAVE	5P-8500	1	CADEADO	691
FERRAMENTAS DE TRABALHO				
GRAXEIRA (ROSCA 1/8-27 POL)	3B-8489	8	GARRA	612
		8	GARRA	614
MOTOR BÁSICO				
CORREIA EM V (BOMBA D'ÁGUA)	036-6775	1	COMANDO DA BOMBA D'ÁGUA	29
JOGO DE CORREIAS EM V (INCLUI 2 CORREIAS)	4N-2532	1	POLIA	45
JUNTA	119-2940	1	TAMPA - MECANISMO DAS VÁLVULAS	17
JUNTA - CABEÇA DO CILINDRO	144-3450	1	CABEÇOTE DO MOTOR	23
POLIA DO ALTERNADOR	1W-4369	1	POLIA	45
TAMPA - BOCAL DE ENCHIMENTO DE ÓLEO	2W-6225	1	TAMPA - MECANISMO DAS VÁLVULAS	17
TORNEIRA	5I-8015	1	CÁRTER DO ÓLEO DO MOTOR	40
POSTO DO OPERADOR				
CHAVE	5P-8500	2	PUBLICAÇÃO	665
CORREIA EM V	5M-8135	1	COMPRESSOR DE REFRIGERANTE	634
FILTRO	4I-1278	1	DUCTO DE AR	645
GRAXEIRA	3B-8489	2	ELEVADOR DA CABINE	673
		2	ELEVADOR DA CABINE	674
SISTEMA DA ADMISSÃO DE AR E DE ESCAPE				
FILTRO PRIMÁRIO	131-8822	1	PURIFICADOR DE AR	77
FILTRO SECUNDÁRIO	131-8821	1	PURIFICADOR DE AR	77
SISTEMA DE ARREFECIMENTO				
FILTRO - ÁGUA	119-3025	1	BOMBA DE ÁGUA	68
REGULADOR DE TEMPERATURA DA ÁGUA	126-5869	1	TUBOS - ÁGUA	64
TAMPA	171-3369	1	RADIADOR E ARREFECEDOR DO ÓLEO HIDRÁULICO	70
TAMPA - RADIADOR	184-3949	1	RADIADOR E ARREFECEDOR DO ÓLEO HIDRÁULICO	74
TAMPA CONTRA POEIRA	6V-0852	1	TUBOS - ÁGUA	64

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA DE COMBUSTÍVEL				
CADEADO	5P-8502	1	TANQUE DE COMBUSTÍVEL E MONTAGEM	115
FILTRO - COMBUSTÍVEL	1R-0751	1	TUBOS - FILTRO DO COMBUSTÍVEL	106
	1R-0753	1	TUBOS - FILTRO DO COMBUSTÍVEL	106
	9P-7121	1	TANQUE DE COMBUSTÍVEL	116
FILTRO - SEPARADOR DE ÁGUA E COMBUSTÍVEL	1R-0770	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	95
INSERTO - FILTRO DE COMBUSTÍVEL	112-6523	1	BASE DO FILTRO DE COMBUSTÍVEL	88
	139-3531	1	BASE DO FILTRO DE COMBUSTÍVEL	88
TAMPA DO TANQUE DE COMBUSTÍVEL	7X-7700	1	TANQUE DE COMBUSTÍVEL	116
TELA FILTRANTE	7C-4483	1	GOVERNADOR - INJETOR	98
SISTEMA DE LUBRIFICAÇÃO				
FILTRO - ÓLEO DO MOTOR	1R-0739	1	FILTRO - ÓLEO DO MOTOR	50
JUNTA	7C-7490	1	FILTRO - ÓLEO DO MOTOR	50
MANGUEIRA - DESCARTE	6I-1545	1	ELIMINAÇÃO DE VAPORES DO CÂRTER	52
TAMPA CONTRA POEIRA	8C-3445	1	FILTRO - ÓLEO DO MOTOR	50
SISTEMA ELÉTRICO E DE PARTIDA				
BATERIA	3T-5760	2	BATERIA E CABOS / FIOS ELÉTRICOS	124
(LIVRE DE MANUTENÇÃO)(12 VOLTS)		2	BATERIA E CABOS / FIOS ELÉTRICOS	126
CHAVE (DESCONECTAR A BATERIA)	8H-5306	1	CHAVE GERAL	177
FUSÍVEL (10 A)	113-8490	24	PAINEL - DISJUNTOR ELÉTRICO AUTOMÁTICO	151
FUSÍVEL (15 A)	113-8491	8	PAINEL - DISJUNTOR ELÉTRICO AUTOMÁTICO	150
FUSÍVEL (5 AMP)	141-2759	7	PAINEL - DISJUNTOR ELÉTRICO AUTOMÁTICO	150
LÂMPADA (24 VOLTS)(65 WATTS)	9X-3463	1	LÂMPADA - FAROL	140
		1	LÂMPADA - FAROL	141
		1	LÂMPADA - FAROL	143
LENTE	106-0001	1	LÂMPADA - FAROL	140
	144-5284	1	LÂMPADA - FAROL	141

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA HIDRÁULICO				
BUJÃO DO DRENO	4B-7739	1	TANQUE HIDRÁULICO E FILTRO	500
CONEXÃO (DESCONEXÃO RÁPIDA)	6V-3965	5	TUBOS - CIRCUITO PILOTO	426
ELEMENTO FILTRANTE - ÓLEO (HIDRÁULICO) (RETORNO)	126-2081	1	FILTRO - ÓLEO	338
FILTRO - ÓLEO	126-1813	1	TANQUE HIDRÁULICO E FILTRO	500
FILTRO - ÓLEO (CAIXA DE DRENAGEM)	093-7521	1	FILTRO - ÓLEO	334
GRAXEIRA	3B-8489	2	CILINDRO DA CAÇAMBA	312
		2	CILINDRO E RETENTOR - CAÇAMBA	304
		1	CILINDRO E RETENTOR - LANÇA	302
		1	CILINDRO E RETENTOR - LANÇA	303
GRAXEIRA (ROSCA DE 1/4-18)	3B-8490	1	CILINDRO E RETENTOR - LANÇA	301
GRAXEIRA (ROSCA 1/8-27 POL)	3B-8489	1	CILINDRO E RETENTOR	299
		2	CILINDRO E RETENTOR	300
		1	CILINDRO E RETENTOR - LANÇA	301
JUNTA	7C-1159	1	RESPIRO	279
RESPIRO	2W-9162	1	RESPIRO	279
	4I-7527	1	COMANDO DE GIRO	330
RETENTOR DE ANEL-O	123-2003	2	FILTRO - ÓLEO	336
RETENTOR DE ANEL-O (133,66 MM DE DIÂMETRO INTERNO)	5H-5672	1	TELA FILTRANTE	496
TAMPA - ALÍVIO DE PRESSÃO	4I-3745	1	TANQUE HIDRÁULICO E FILTRO	500
TAMPA CONTRA POEIRA	6V-0852	1	TANQUE HIDRÁULICO E FILTRO	500
		5	TUBOS - CIRCUITO PILOTO	412
		5	TUBOS - CIRCUITO PILOTO	426
		6	TUBOS - CIRCUITO PILOTO	432
		5	TUBOS - CIRCUITO PILOTO	448
	8C-3451	1	TANQUE HIDRÁULICO E FILTRO	500
TAMPA (ROSCA DE 1-3/16-12)	6V-9832	4	TUBOS - BRAÇO	462

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
ARBEITSGERÄTE				
SCHMIERNIPPEL	3B-8489	1	AUSLEGER	592
		5	LÖFFELGESTÄNGE	600
		5	SCHMIERLEITUNGEN	596
SCHMIERNIPPEL (1/8-27-GEWINDE)	3B-8489	3	STIEL	610
		8	GREIFER	612
		8	GREIFER	614
		2	SCHMIERLEITUNGEN	595
		2	STIEL	606
		2	STIEL	608
ELEKTRISCHE ANLAGE U. STARTSYSTEM				
ABDECKGLAS	106-0001	1	ARBEITSLEUCHTEN	140
	144-5284	1	ARBEITSLEUCHTEN	141
BATTERIE (WARTUNGSFREI) (12 V)	3T-5760	2	BATTERIE UND VERDRAHTUNG	124
		2	BATTERIE UND VERDRAHTUNG	126
LEUCHTE (24 V)(65 W)	9X-3463	1	ARBEITSLEUCHTEN	140
		1	ARBEITSLEUCHTEN	141
		1	ARBEITSLEUCHTEN	143
SCHLÜSSEL (HAUPTSCHALTER)	8H-5306	1	TRENNSCHALTER	177
SICHERUNG (10 A)	113-8490	24	UNTERBRECHER - INSTRUMENTENTAFEL	151
SICHERUNG (15 A)	113-8491	8	UNTERBRECHER - INSTRUMENTENTAFEL	150
SICHERUNG (5 A)	141-2759	7	UNTERBRECHER - INSTRUMENTENTAFEL	150
FAHRERHAUS				
FILTER	4I-1278	1	LUFTKANAL	645
KEILRIEMEN	5M-8135	1	KÄLTEMITTELKOMPRESSOR	634
SCHLÜSSEL	5P-8500	2	DOKUMENTATION	665
SCHMIERNIPPEL	3B-8489	2	FAHRERHAUSUNTERBAU	673
		2	FAHRERHAUSUNTERBAU	674
FAHRGESTELL U. OBERWAGEN				
SCHMIERNIPPEL	3B-8489	1	SCHWENKGETRIEBELAGER	218
		1	SCHWENKGETRIEBELAGER	220
		1	SCHWENKGETRIEBELAGER	222
VORHÄNGESCHLOSS	5P-8502	2	MOTORHAUBE UND VERKLEIDUNG	231

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
HYDRAULIKSYSTEM				
ABLASSTOPFEN	4B-7739	1	HYDRAULIKTANK UND SCHMIERFILTER	500
ANSCHLUSSSTÜCK (SCHNELLWECHSELANSCHLUSS)	6V-3965	5	VORSTEUERLEITUNGEN	426
DICHTUNG	7C-1159	1	ENTLÜFTER	279
DRUCKVENTILDECKEL	4I-3745	1	HYDRAULIKTANK UND SCHMIERFILTER	500
ENTLÜFTER	2W-9162	1	ENTLÜFTER	279
	4I-7527	1	SCHWENKANTRIEB	330
KAPPE (1-3/16-12-GEWINDE)	6V-9832	4	STIELZYLINDERLEITUNGEN	462
O-RING-DICHTUNG	123-2003	2	ÖLFILTER	336
O-RING-DICHTUNG (133,66 MM ID)	5H-5672	1	FILTERSIEB	496
ÖLFILTER	126-1813	1	HYDRAULIKTANK UND SCHMIERFILTER	500
ÖLFILTER (GEHÄUSEABLASS)	093-7521	1	ÖLFILTER	334
ÖLFITERELEMENT (HYDRAULISCH) (RÜCKLAUF)	126-2081	1	ÖLFILTER	338
SCHMIERNIPPEL	3B-8489	1	AUSLEGERZYLINDER UND DICHTUNG	302
		1	AUSLEGERZYLINDER UND DICHTUNG	303
		2	LÖFFELZYLINDER	312
		2	LÖFFELZYLINDER UND DICHTUNG	304
SCHMIERNIPPEL (1/4-18 GEWINDE)	3B-8490	1	AUSLEGERZYLINDER UND DICHTUNG	301
SCHMIERNIPPEL (1/8-27-GEWINDE)	3B-8489	1	AUSLEGERZYLINDER UND DICHTUNG	301
		1	ZYLINDER UND DICHTUNG	299
		2	ZYLINDER UND DICHTUNG	300
STAUBKAPPE	6V-0852	1	HYDRAULIKTANK UND SCHMIERFILTER	500
		5	VORSTEUERLEITUNGEN	412
		5	VORSTEUERLEITUNGEN	426
		6	VORSTEUERLEITUNGEN	432
		5	VORSTEUERLEITUNGEN	448
	8C-3451	1	HYDRAULIKTANK UND SCHMIERFILTER	500
KRAFTSTOFFSYSTEM				
KRAFTSTOFFFILTER	1R-0751	1	KRAFTSTOFFFILTERLEITUNGEN	106
	1R-0753	1	KRAFTSTOFFFILTERLEITUNGEN	106
KRAFTSTOFFITEREINSATZ	112-6523	1	KRAFTSTOFFFILTERSOCKEL	88
	139-3531	1	KRAFTSTOFFFILTERSOCKEL	88
KRAFTSTOFFSIEB	9P-7121	1	KRAFTSTOFFTANK	116
KRAFTSTOFFTANKKAPPE	7X-7700	1	KRAFTSTOFFTANK	116
SIEB	7C-4483	1	REGLEREINSPRITZEINHEIT	98
VORHÄNGESCHLOSS	5P-8502	1	KRAFTSTOFFTANK U. BEFESTIGUNG	115
WASSERABSCHIEDER UND KRAFTSTOFFFILTER	1R-0770	1	WASSERABSCHIEDER- U. KRAFTSTOFFFILTER	95

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
KÜHLSYSTEM				
KAPPE	171-3369	1	KÜHLER UND HYDRAULIKÖLKÜHLER	70
KÜHLERKAPPE	184-3949	1	KÜHLER UND HYDRAULIKÖLKÜHLER	74
STAUBKAPPE	6V-0852	1	KÜHLWASSERLEITUNGEN	64
WASSERFILTER	119-3025	1	KÜHLWASSERPUMPE	68
WASSEITEMPERATURREGLER	126-5869	1	KÜHLWASSERLEITUNGEN	64
LUFTANSAUG - U. ABGASSYSTEM				
HAUPTFILTER	131-8822	1	LUFTREINIGER	77
SICHERHEITSFILTER	131-8821	1	LUFTREINIGER	77
MOTOR (GRUNDAUSFÜHRUNG)				
ABSPERRHAHNSATZ	5I-8015	1	ÖLWANNE	40
DICHTUNG	119-2940	1	VENTILDECKEL	17
DREHSTROMGENERATOR-RIEMEN- SCHEIBE	1W-4369	1	RIEMENSCHLEIBE	45
KEILRIEMEN (WASSERPUMPE)	036-6775	1	KÜHLWASSERPUMPENANTRIEB	29
KEILRIEMENSATZ (EINSCHL. 2 RIEMEN)	4N-2532	1	RIEMENSCHLEIBE	45
ÖLEINFÜLLSTUTZEN	2W-6225	1	VENTILDECKEL	17
ZYLINDERKOPFDICHTUNG	144-3450	1	ZYLINDERKOPF	23
SCHMIERSYSTEM				
DICHTUNG	7C-7490	1	ÖLFILTER	50
ENTDUNSTERLEITUNG	6I-1545	1	ENTDUNSTER	52
ÖLFILTER	1R-0739	1	ÖLFILTER	50
STAUBKAPPE	8C-3445	1	ÖLFILTER	50
WARTUNGS AUSTRÜSTUNG				
SCHLÜSSEL	5P-8500	1	VORHÄNGESCHLOSS	691

RICAMBI PER MANUTENZIONE

DESCRIZIONE	NUMERO DEL RICAMBIO	QTÀ	DOVE USATI	PAGINA
ATTREZZATURE				
INGRASSATORE	3B-8489	3	AVAMBRACCIO	610
		1	BRACCIO - GR	592
		4	LEVERISMO BENNA - GR	600
		5	TUBAZIONI GRASSO - GR	596
INGRASSATORE (FILETTATURA 1/8-27)	3B-8489	2	AVAMBRACCIO	606
		2	AVAMBRACCIO	608
		8	BENNA A POLIPO - GRUPPO	612
		8	BENNA A POLIPO - GRUPPO	614
		2	TUBAZIONI GRASSO - GR	595
IMPIANTO IDRAULICO				
ELEMENTO FILTRO OLIO (IDRAULICO) (RITORNO)	126-2081	1	FILTRO DELL'OLIO	338
FILTRO DELL'OLIO	126-1813	1	SERBATOIO E FILTRO IDRAULICO - GR	500
FILTRO DELL'OLIO (SCARICO DELL'ALLOGGIAMENTO)	093-7521	1	FILTRO DELL'OLIO	334
GUARNIZIONE	7C-1159	1	SFIATATOIO	279
GUARNIZIONE AD ANELLO	123-2003	2	FILTRO DELL'OLIO	336
GUARNIZIONE AD ANELLO (DIAMETRO INTERNO 133,66MM)	5H-5672	1	FILTRO A RETE	496
INGRASSATORE	3B-8489	2	CILINDRO BENNA - GR	312
		2	CILINDRO E TENUTE BENNA - GR	304
		1	CILINDRO E TENUTE BRACCIO - GR	302
		1	CILINDRO E TENUTE BRACCIO - GR	303
INGRASSATORE (FILETTATURA 1/4-18)	3B-8490	1	CILINDRO E TENUTE BRACCIO - GR	301
INGRASSATORE (FILETTATURA 1/8-27)	3B-8489	1	CILINDRO E TENUTE - GR	299
		2	CILINDRO E TENUTE - GR	300
		1	CILINDRO E TENUTE BRACCIO - GR	301
RACCORDO (DISTACCO RAPIDO)	6V-3965	5	TUBAZIONI CIRCUITO PILOTA - GR	426
SFIATATOIO	2W-9162	1	SFIATATOIO	279
	4I-7527	1	COMANDO ROTAZIONE - GR	330
TAPPO ANTIPOLVERE	6V-0852	1	SERBATOIO E FILTRO IDRAULICO - GR	500
		5	TUBAZIONI CIRCUITO PILOTA - GR	412
		5	TUBAZIONI CIRCUITO PILOTA - GR	426
		6	TUBAZIONI CIRCUITO PILOTA - GR	432
		5	TUBAZIONI CIRCUITO PILOTA - GR	448
	8C-3451	1	SERBATOIO E FILTRO IDRAULICO - GR	500
TAPPO DELLO SCARICO	4B-7739	1	SERBATOIO E FILTRO IDRAULICO - GR	500
TAPPO (FILETTATURA 1-3/6-12)	6V-9832	4	TUBAZIONI AVAMBRACCIO - GR	462
TAPPO-VALVOLA DI PRESSIONE	4I-3745	1	SERBATOIO E FILTRO IDRAULICO - GR	500
MATERIALE DI SERVIZIO E VARIE				
CHIAVE	5P-8500	1	LUCCHETTO - GR	691

RICAMBI PER MANUTENZIONE

DESCRIZIONE	NUMERO DEL RICAMBIO	QTÀ	DOVE USATI	PAGINA
MOTORE BASE				
CINGHIA A V (POMPA DELL'ACQUA)	036-6775	1	COMANDO DELLA POMPA DELL'ACQUA	29
CINGHIE A V (COMPRENDE 2 CINGHIE)	4N-2532	1	PULLEGIA	45
GUARNIZIONE	119-2940	1	COPERCHIO MECCANISMO VALVOLE - GR	17
GUARNIZIONE DELLA TESTATA	144-3450	1	TESTA CILINDRO - GR	23
PULEGGIA - ALTERNATORE	1W-4369	1	PULLEGIA	45
RUBINETTO	5I-8015	1	COPPA OLIO - GR	40
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MACHINE ARRANGEMENT

192-2316 CHASSIS AR

S/N: BPH1-UP

PART OF 192-2311 GENERAL AR

SMCS-7051

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Y-SEPARATE ILLUSTRATION

MACHINE ARRANGEMENT

192-2317 CHASSIS AR

S/N: CAM1-UP

PART OF 192-2313 GENERAL AR

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i01547048

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	183-1037	1	ALARM GP-TRAVEL						118
Y	192-2325	1	BATTERY & WIRING GP						126
Y	184-8371	1	BOX & MTG GP-STORAGE						207
Y	157-3164	1	CONTROL & MTG GP-MACHINE (ENGINE & HYDRAULIC)						136
Y	171-2632	1	CONTROL GP-GOVERNOR						90
Y	177-5462	1	COUNTERWEIGHT GP						208
Y	184-8372	1	FENDER & COVER GP						214
Y	192-2319	1	FRAME GP-UPPER						216
Y	192-2723	1	GUARD GP-BOTTOM						224
Y	192-2348	1	GUARD GP-LIGHT						226
Y	197-2028	1	HANDHOLD GP						229
Y	192-2322	1	HOOD & GUARD GP						230
Y	7Y-3813	1	HORN GP-ELECTRIC						655
Y	204-7002	1	LINES GP-AIR CONDITIONER						662
Y	177-5470	1	LINES GP-FUEL						104
Y	7Y-0059	1	LITERATURE GP						665
Y	192-2332	1	OPERATOR AR						666
Y	192-2328	1	PLATE & FILM GP						693
Y	192-2339	1	RISER AR-CAB						671
Y	178-6639	1	SENSOR & MTG GP-LIQUID LEVEL						154
Y	184-8370	1	TANK & MTG GP-FUEL						115
Y	161-9544	1	WALKWAY GP						238
Y	205-9122	1	WASHER GP-WINDOW						688

Y-SEPARATE ILLUSTRATION

MACHINE ARRANGEMENT

192-2318 CHASSIS AR

S/N: CBY1-UP

PART OF 192-2315 GENERAL AR

SMCS-7051

i01547046

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	183-1037	1	ALARM GP-TRAVEL						118
Y	192-2325	1	BATTERY & WIRING GP						126
Y	184-8371	1	BOX & MTG GP-STORAGE						207
Y	157-3164	1	CONTROL & MTG GP-MACHINE (ENGINE & HYDRAULIC)						136
Y	171-2632	1	CONTROL GP-GOVERNOR						90
Y	190-6989	1	COUNTERWEIGHT GP						210
Y	184-8372	1	FENDER & COVER GP						214
Y	192-2319	1	FRAME GP-UPPER						216
Y	192-2723	1	GUARD GP-BOTTOM						224
Y	192-2348	1	GUARD GP-LIGHT						226
Y	197-2028	1	HANDHOLD GP						229
Y	192-2322	1	HOOD & GUARD GP						230
Y	7Y-3813	1	HORN GP-ELECTRIC						655
Y	204-7002	1	LINES GP-AIR CONDITIONER						662
Y	177-5470	1	LINES GP-FUEL						104
Y	7Y-0059	1	LITERATURE GP						665
Y	203-9143	1	OPERATOR AR						667
Y	192-2329	1	PLATE & FILM GP						694
Y	192-2340	1	RISER AR-CAB						672
Y	178-6639	1	SENSOR & MTG GP-LIQUID LEVEL						154
Y	184-8370	1	TANK & MTG GP-FUEL						115
Y	161-9544	1	WALKWAY GP						238
Y	205-9122	1	WASHER GP-WINDOW						688

Y-SEPARATE ILLUSTRATION

MACHINE ARRANGEMENT

192-2311 GENERAL AR

S/N: BPH1-UP

SMCS-7000

i01416984

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	192-2316	1	CHASSIS AR						1
Y	177-7654	1	ELECTRONICS GP-MACHINE						137
Y	197-8977	1	ENGINE AR						7
Y	186-3944	1	FRAME AR-UNDERCARRIAGE						241
Y	186-3942	1	HYDRAULIC AR						351
Y	171-9106	1	INSTALLATION AR-ENGINE						10
Y	192-2346	1	POWER TRAIN AR						204
Y-SEPARATE ILLUSTRATION									

MACHINE ARRANGEMENT

192-2313 GENERAL AR

S/N: CAM1-UP

SMCS-7000

i01417016

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	192-2317	1	CHASSIS AR						2
Y	197-8977	1	ENGINE AR						7
Y	186-3945	1	FRAME AR-UNDERCARRIAGE						242
Y	196-3255	1	HYDRAULIC AR						353
Y	171-9106	1	INSTALLATION AR-ENGINE						10
Y	192-2347	1	POWER TRAIN AR						205
Y-SEPARATE ILLUSTRATION									

MACHINE ARRANGEMENT

192-2315 GENERAL AR

S/N: CBY1-UP

SMCS-7000

i01510414

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	192-2318	1	CHASSIS AR						3
Y	197-8977	1	ENGINE AR						7
Y	186-3945	1	FRAME AR-UNDERCARRIAGE						242
Y	186-3943	1	HYDRAULIC AR						352
Y	171-9106	1	INSTALLATION AR-ENGINE						10
Y	192-2347	1	POWER TRAIN AR						205
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

197-8977 ENGINE AR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2311, 192-2313, 192-2315 GENERAL AR

SMCS-1000

i01530860

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	197-8655	1	ENGINE AR-COMPLETE						8
Y	178-6506	1	FAN GP-SUCTION						63
Y	178-6486	1	MUFFLER GP						84
Y	201-4204	1	STARTING MOTOR GP-ELECTRIC						176
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

197-8655 ENGINE AR-COMPLETE

S/N: 55K8513-UP

PART OF 197-8977 ENGINE AR

SMCS-1000

i01530864

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	134-2357	1	AFTERCOOLER GP-TREATED WATER						76
Y	188-1727	1	ALTERNATOR GP-CHARGING						122
Y	4W-3462	1	CARRIER GP-SEAL						12
Y	177-6968	1	COOLER GP-ENGINE OIL						62
Y	190-6185	1	COVER GP-CYLINDER BLOCK						13
Y	118-1727	1	COVER GP-FRONT HOUSING						14
Y	136-8888	1	COVER GP-FRONT HOUSING						15
Y	201-1047	1	COVER GP-SOUND SUPPRESSION						16
Y	132-1483	1	COVER GP-VALVE MECHANISM						17
Y	133-5056	1	DAMPER & PULLEY GP						27
Y	7C-0044	1	DRIVE GP-FAN						28
Y	4W-5428	1	DRIVE GP-WATER PUMP						29
Y	168-8661	1	ENGINE AR-CORE						9
Y	154-7192	1	FASTENER GP-FRONT HOUSING						30
Y	201-1777	1	FASTENER GP-WIRING HARNESS						138
Y	183-2852	1	FILTER GP-ENGINE OIL						50
Y	9Y-6092	1	FLYWHEEL GP						31
Y	201-1214	1	FUMES DISPOSAL GP						52
Y	199-6564	1	GAUGE GP-OIL LEVEL (DIPSTICK)						53
Y	134-2356	1	HEATER GP-AIR INLET						139
Y	7W-8813	1	HOUSING GP-FLYWHEEL						33
Y	101-4539	1	HOUSING GP-FRONT						34
Y	117-3476	1	LIFTING GP-ENGINE						35
Y	133-5048	1	LINES GP-AIR						78
Y	7C-2475	1	LINES GP-ENGINE OIL						54
Y	180-8016	1	LINES GP-FUEL FILTER						106
Y	7C-2476	1	LINES GP-TURBOCHARGER OIL						56
Y	183-2858	1	LINES GP-WATER						64
Y	6I-2298	1	MANIFOLD GP-EXHAUST						81
Y	176-9429	1	PAN GP-OIL						40
Y	156-0228	1	PLUG GP-CYLINDER BLOCK						44
Y	197-3265	1	PULLEY GP						45
Y	4W-5429	1	PULLEY GP-CRANKSHAFT						46
Y	129-3230	1	PUMP GP-FUEL PRIMING						110
Y	123-8388	1	PUMP GP-WATER						66
Y	178-2496	1	SENSOR GP-ENGINE						156
Y	7C-4028	1	SOLENOID GP-SHUTOFF						158
Y	190-6184	1	SUPPORT GP-GOVERNOR CONTROL						114

GASKET KITS WILL BE PROVIDED WHEN AVAILABLE

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

168-8661 ENGINE AR-CORE

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1000

i01364407

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	194-1680	1	BREATHER GP						279
Y	108-5759	1	CAMSHAFT GP						11
Y	105-1695	1	CONTROL GP-FUEL INJECTION						89
Y	113-6087	1	CRANKSHAFT GP						18
Y	129-1165	1	CYLINDER BLOCK GP						22
Y	140-7370	1	CYLINDER HEAD GP						23
Y	101-4540	1	GEAR GP-FRONT						32
Y	183-2855	1	GOVERNOR GP-UNIT INJECTOR						101
Y	4P-9693	1	LINES GP-FUEL RATIO CONTROL						108
Y	183-5779	1	MANIFOLD GP-INLET						82
Y	4P-4372	1	MECHANISM GP-FUEL PUMP & VALVE						36
Y	147-9592	6	PISTON & ROD GP						42
Y	115-4138	1	PUMP GP-ENGINE OIL						61
Y	107-7732	6	PUMP GP-UNIT INJECTION						113
Y	115-4210	1	SEAL GP-CRANKSHAFT						48
Y	126-5879	1	TURBOCHARGER GP						86

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

171-9106 INSTALLATION AR-ENGINE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2311, 192-2313, 192-2315 GENERAL AR

SMCS-1000

i01349300

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	171-9115	1	COMPRESSOR GP-REFRIGERANT						634
Y	176-1991	1	CONDENSER & MTG GP-REFRIGERANT						635
Y	183-8216	1	LINES GP-AIR						79
Y	178-6449	1	LINES GP-MUFFLER DRAIN						80
Y	171-9114	1	LINES GP-OIL DRAIN						55
Y	162-6232	1	MOUNTING GP-AIR CLEANER						83
Y	178-6448	1	MOUNTING GP-ENGINE						38
Y	171-9116	1	MOUNTING GP-ENGINE OIL FILTER						58
Y	171-9109	1	RADIATOR & HYD OIL COOLER GP						70

Y-SEPARATE ILLUSTRATION

BASIC ENGINE

108-5759 CAMSHAFT GP

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

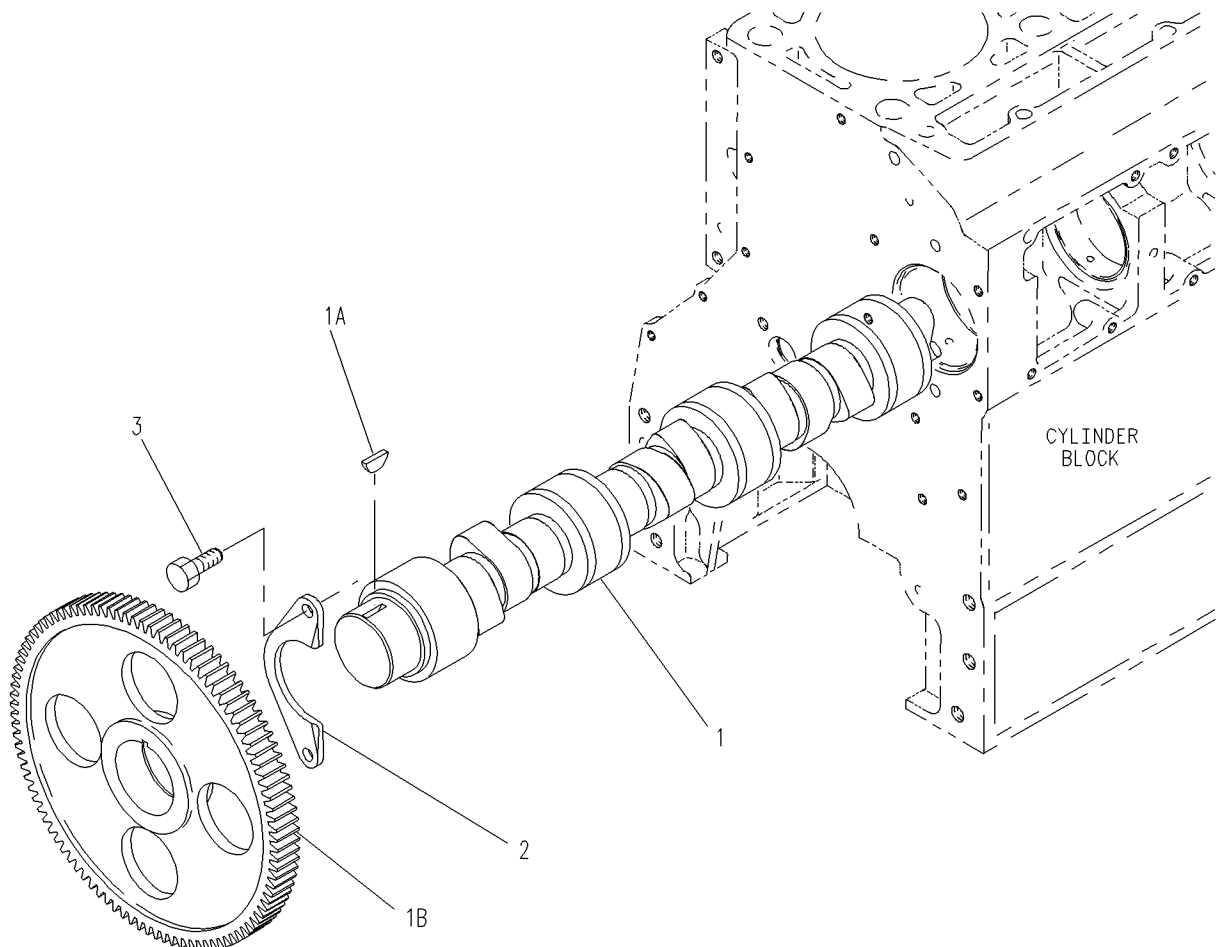
SMCS-1210

i01306185

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	134-5276	1	CAMSHAFT AS						
	1A	1	1B-8705	1	KEY-WOODRUFF						
	1B	1	7W-4070	1	GEAR (100 TEETH)						
	2	1	107-7694	1	PLATE-THRUST						
M	3	1	6V-3940	2	BOLT (M8X1.25X25MM)						

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00691922

BASIC ENGINE

4W-3462 CARRIER GP-SEAL

S/N: 55K8513-UP

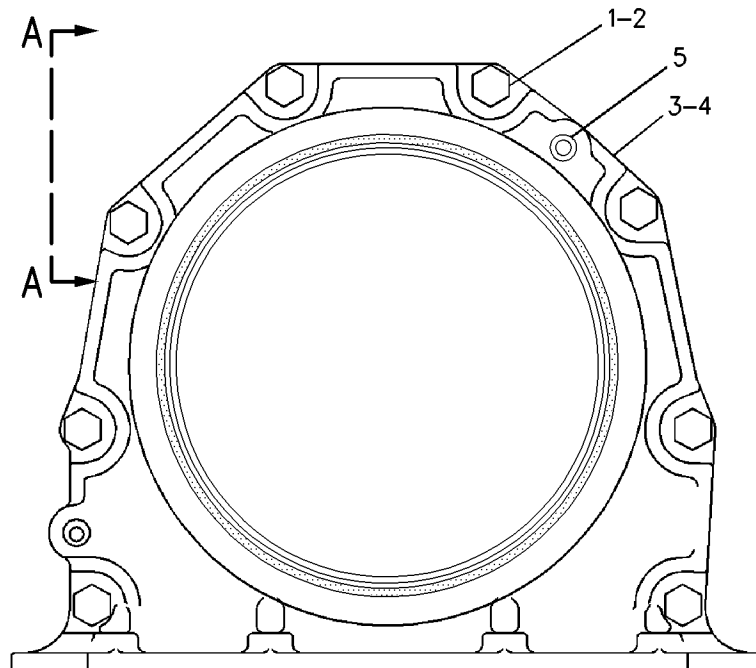
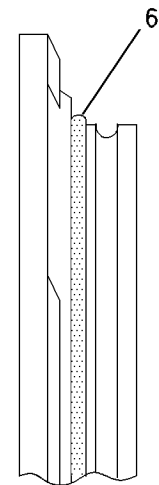
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1161

i01369373

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-3940	8	BOLT (M8X1.25X25MM)						
	2	1	9M-1974	8	WASHER-HARD (2MM THK)						
	3	1	2W-6546	1	COVER						
B	4	1	1U-8846		SEALANT						
	5	1	6V-3538	2	DOWEL (20MM OAL)						
	6	1	8C-3091	1	SEAL-O-RING						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00722340

BASIC ENGINE

190-6185 COVER GP-CYLINDER BLOCK

S/N: 55K8513-UP

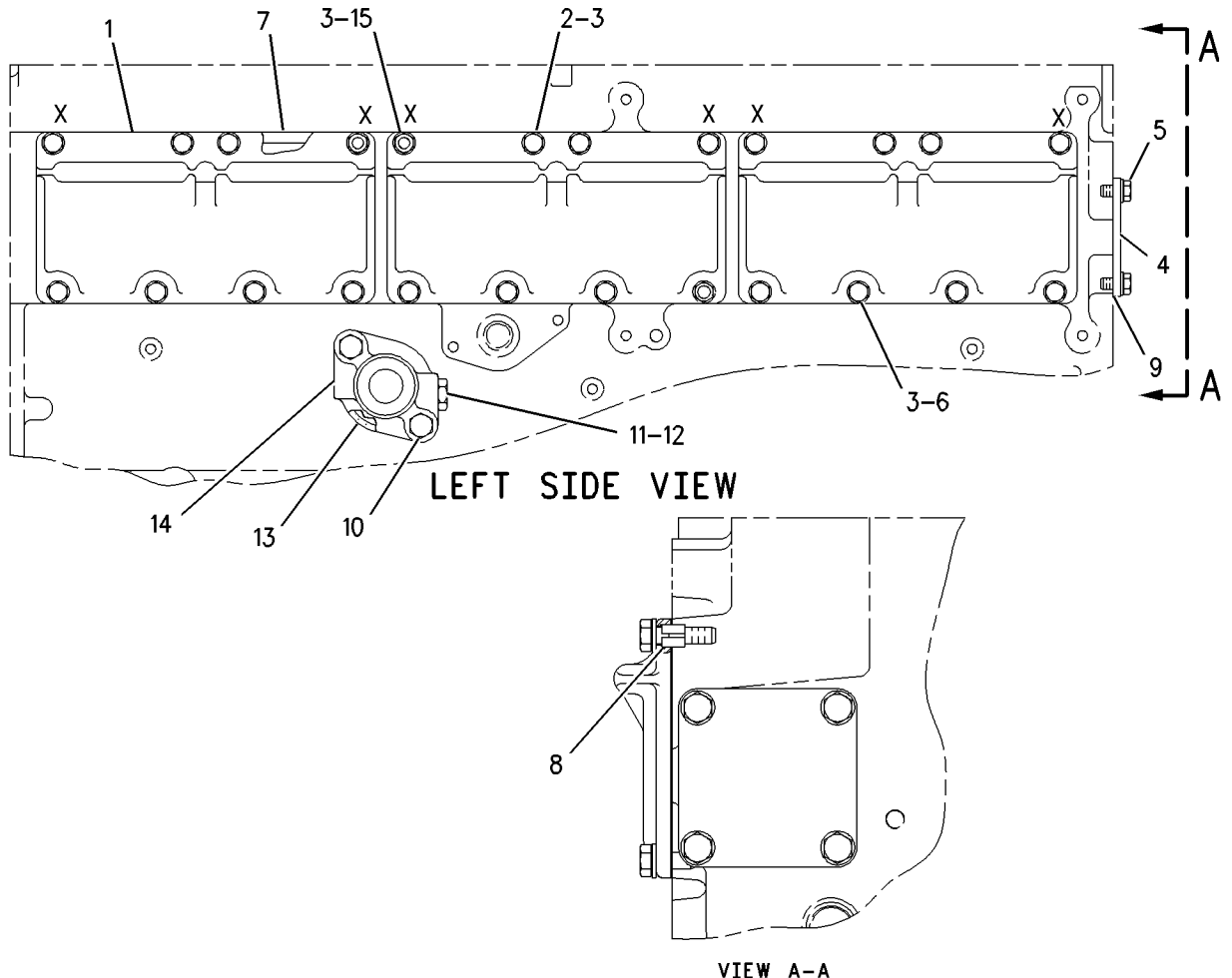
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1201

i01537317

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3871	3	COVER-SIDE						
M	2	1	6V-2317	10	BOLT (M8X1.25X30MM)						
	3	1	9M-1974	24	WASHER-HARD (8.8X16X2MM THK)						
	4	1	2W-6544	1	COVER						
	5	1	110-7618	4	BOLT AS						
M	6	1	6V-5217	12	BOLT (M8X1.25X20MM)						
	7	1	4Y-9652	3	GASKET						
	8	1	7W-3872	6	SLEEVE (MARKED X)						
B	9	1	1U-8846		SEALANT-GASKET						
M	10	1	6V-5843	2	BOLT (M10X1.50X45MM)						
	11	1	9S-4191	1	PLUG-STRAIGHT THREAD (9/16-18 THD)						
	12	1	3J-1907	1	SEAL-O-RING						
	13	1	4F-9653	1	SEAL-O-RING						
	14	1	4P-9128	1	ADAPTER						
M	15	1	9X-2099	2	STUD-BOLT						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00721207

BASIC ENGINE

118-1727 COVER GP-FRONT HOUSING

S/N: 55K8513-UP

REQUIRED ON ENGINES WITH NO FACTORY INSTALLED AIR COMPRESSOR

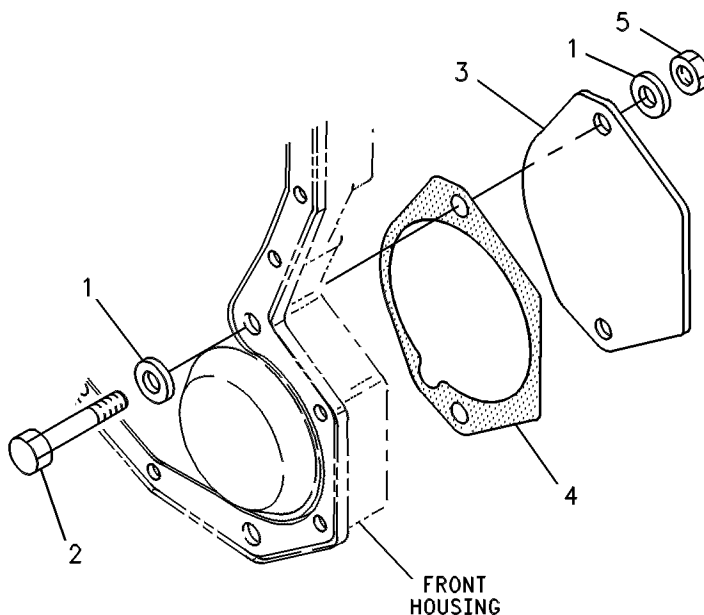
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1150

i00646946

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8245	4	WASHER (3MM THK)						
M	2	1	6V-5696	2	BOLT (M12X1.75X80MM)						
	3	1	4W-2026	1	COVER						
	4	1	135-9819	1	SEAL - INTEGRAL						
M	5	1	6V-8149	2	NUT (M12X1.75 THD)						

M-METRIC PART



GRAPHIC #1

g00245495

BASIC ENGINE

136-8888 COVER GP-FRONT HOUSING

S/N: 55K8513-UP

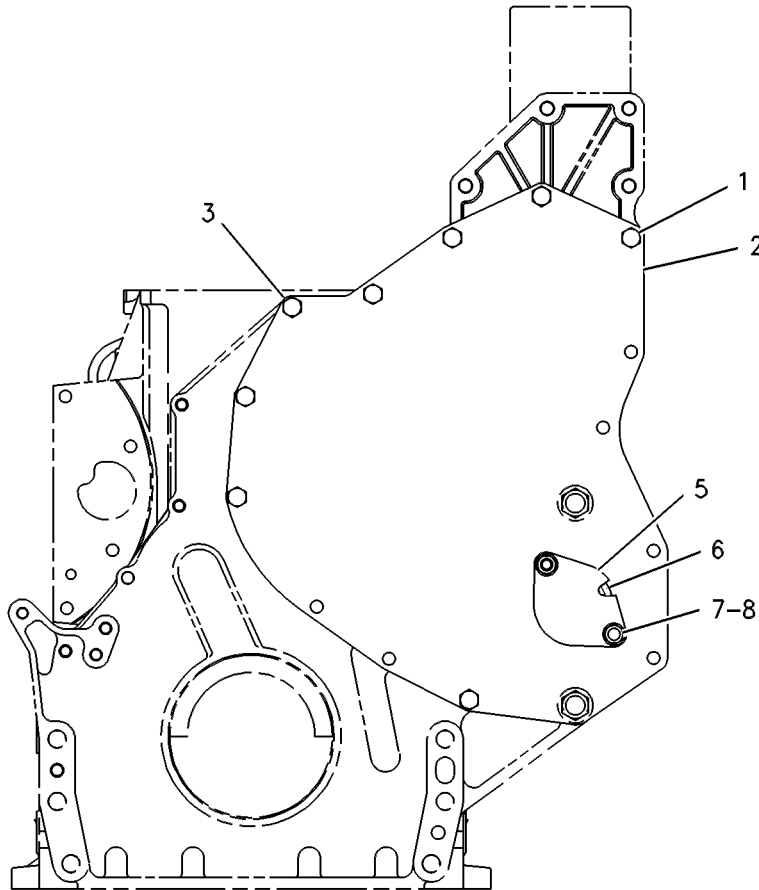
PART OF 197-8655 ENGINE AR-COMPLETE
FOR USE WITH ENGINE WITHOUT FRONT OIL FILL TUBE

SMCS-1150

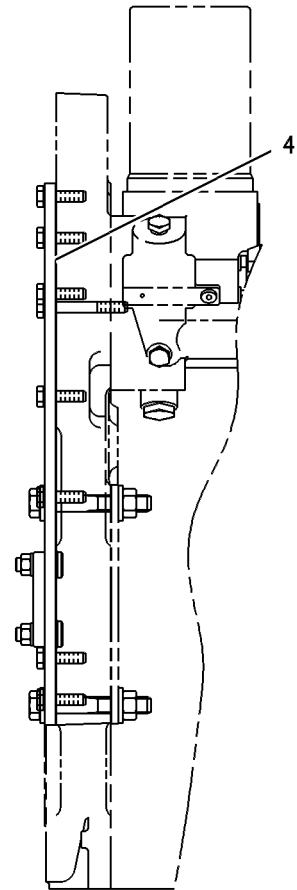
i00826494

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	7	BOLT (M8X1.25X30MM)						
	2	1	136-0823	1	COVER AS-FRONT						
M	3	1	8T-0100	1	BOLT (M8X1.25X60MM)						
	4	1	139-3526	1	GASKET						
	5	1	7C-1445	1	COVER						
	6	1	061-9455	1	SEAL-O-RING						
	7	1	8T-4224	2	WASHER-HARD (2MM THK)						
M	8	1	5C-7261	2	NUT (M8X1.25 THD)						

M-METRIC PART



FRONT VIEW



LEFT SIDE VIEW

GRAPHIC #1

g00286201

BASIC ENGINE

201 - 1047 COVER GP - SOUND SUPPRESSION

S/N: 55K8513-UP

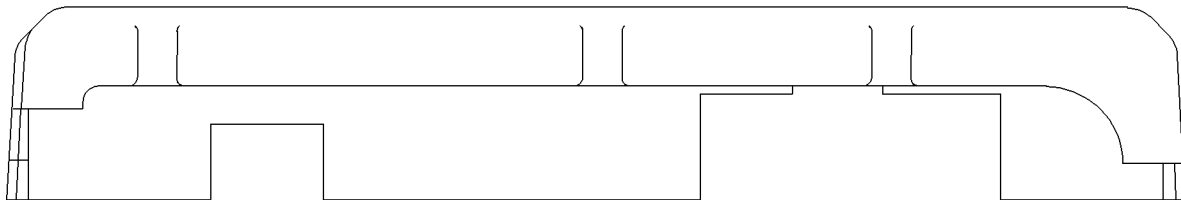
VALVE COVER

PART OF 197-8655 ENGINE AR-COMplete

SMCS-1801

i01488680

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

g00773380

BASIC ENGINE

132-1483 COVER GP-VALVE MECHANISM

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMplete

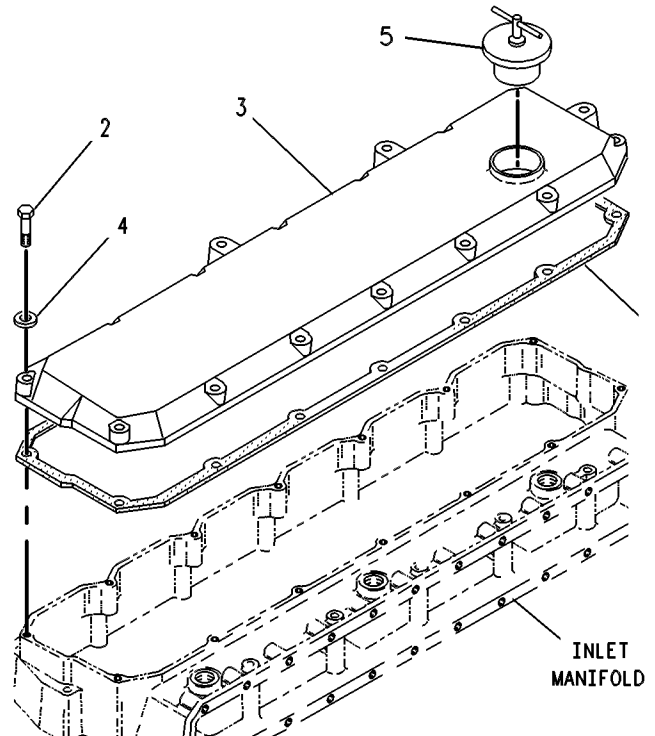
FOR USE WITH COVER GP-BLOCK WITHOUT SIDE OIL FILL

SMCS-1107

i01279683

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	119-2940	1	GASKET						
M	2	1	6V-2315	14	BOLT (M6X1X35MM)						
	3	1	119-2961	1	COVER						
	4	1	5P-0537	14	WASHER (2MM THK)						
	5	1	2W-6225	1	CAP AS-OIL FILLER						

M-METRIC PART



GRAPHIC #1

g00117526

BASIC ENGINE

113-6087 CRANKSHAFT GP

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1202

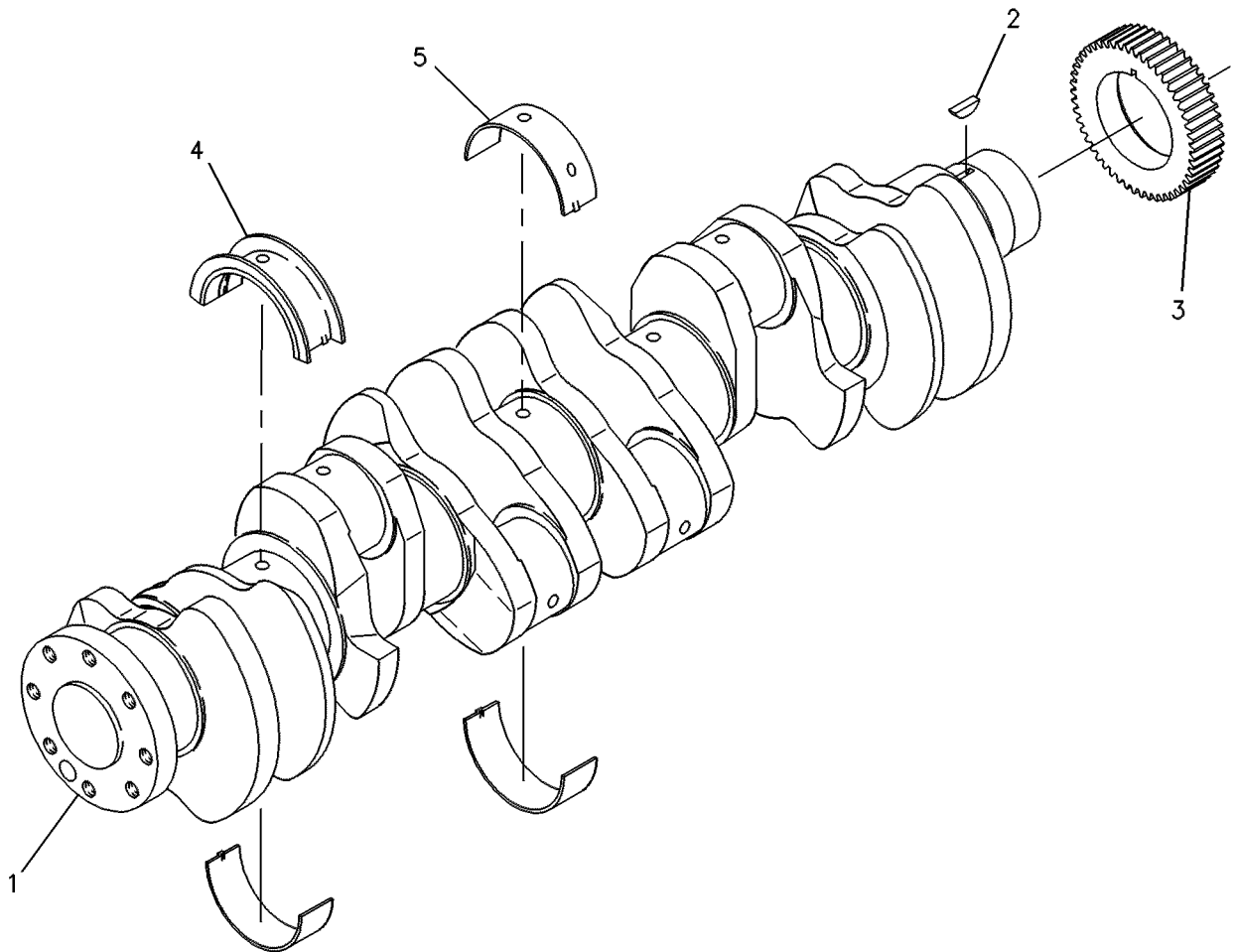
i01449350

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	105-1725	1	CRANKSHAFT AS						
	2	1	1B-8705	1	KEY-WOODRUFF						
	3	1	2W-8147	1	GEAR (50 TEETH)						
J	4	1	107-7602	1	BEARING-THRUST						
AB		1	7C-6969		BEARING-THRUST (0.5MM OS)						
AB		1	7C-6970		BEARING-THRUST (0.5MM US - 0.5MM OS)						
AB		1	7C-6966		BEARING-THRUST (0.25MM US)						
AB		1	7C-6967		BEARING-THRUST (0.5MM US)						
J	5	1	107-7708	6	BEARING-MAIN						
AB		1	145-0168		BEARING-MAIN (0.5MM O.S.)						
AB		1	145-0170		BEARING-MAIN (0.5MM US - 0.5MM OS)						
AB		1	145-0162		BEARING-MAIN (0.25MM US)						
AB		1	145-0164		BEARING-MAIN (0.5MM U.S.)						
ABF		1	7C-7980	1	SLEEVE-OIL SEAL						
					(THIS WEAR SLEEVE IS USED ONLY TO SALVAGE (REPAIR) THE REAR SEAL SURFACE OF THE CRANKSHAFT)						
					AVAILABLE REPAIR KIT(S) :						
J			196-9519		KIT-MAIN BEARING						
A-NOT PART OF THIS GROUP B-USE AS REQUIRED F-NOT SHOWN J-KIT MARKED J SERVICES PARTS MARKED J R-REMFG PART MAY BE AVAILABLE											

BASIC ENGINE

113-6087 CRANKSHAFT GP (contd.)

i01449350



GRAPHIC #1

g00239929

BASIC ENGINE

129-1163 CYLINDER BLOCK GP

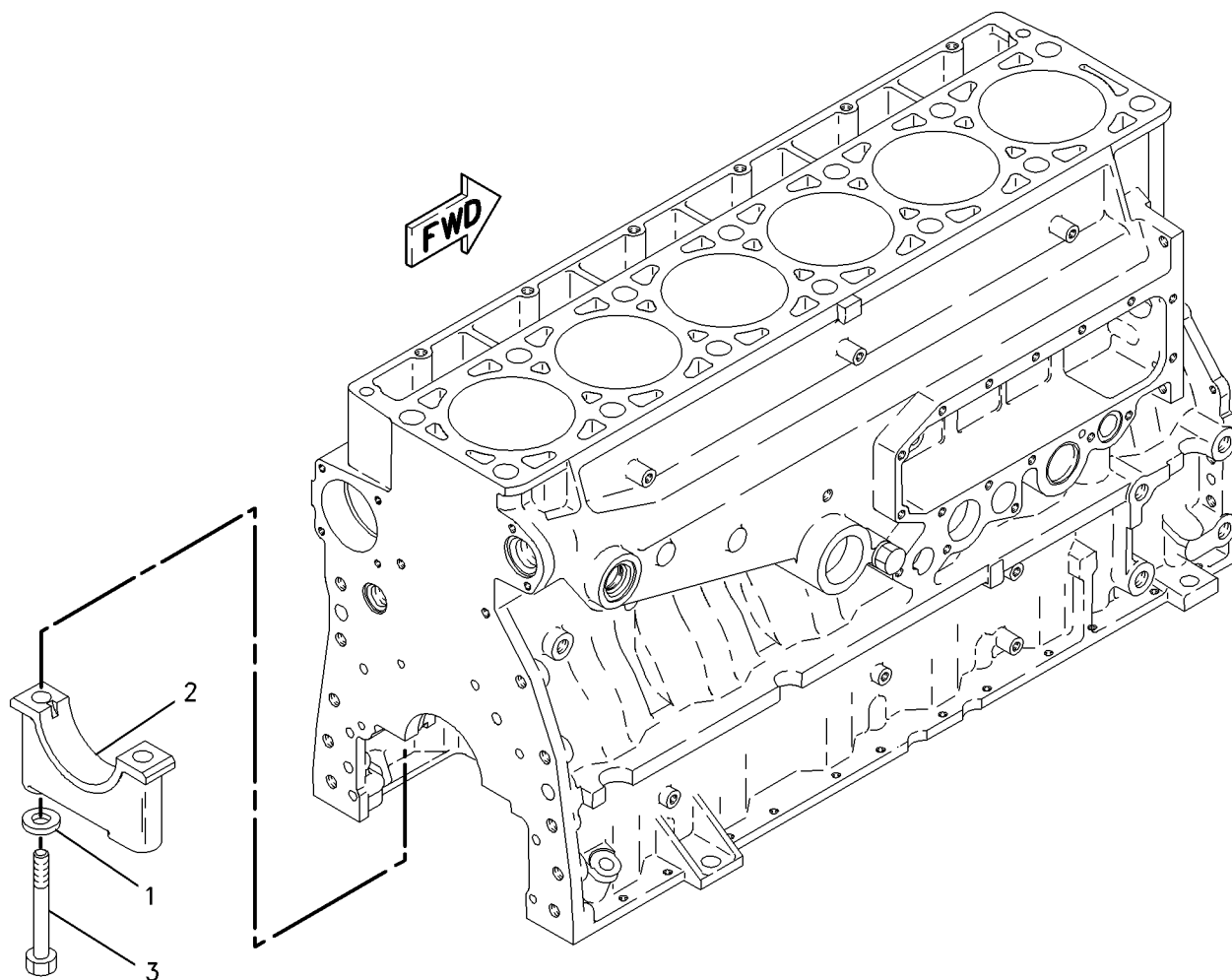
S/N: 55K8513-UP

PART OF 129-1164 CYLINDER BLOCK GP

SMCS-1201

i01513233

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8247	14	WASHER-HARD (17X32X3.5MM THK)						
	2	1	7E-2968	7	CAP-CRANKSHAFT BEARING						
M	3	1	9X-8916	14	BOLT (M16X2.0X140MM)						
M-METRIC PART											



GRAPHIC #1

g00785467

BASIC ENGINE

129-1164 CYLINDER BLOCK GP*R

S/N: 55K8513-UP

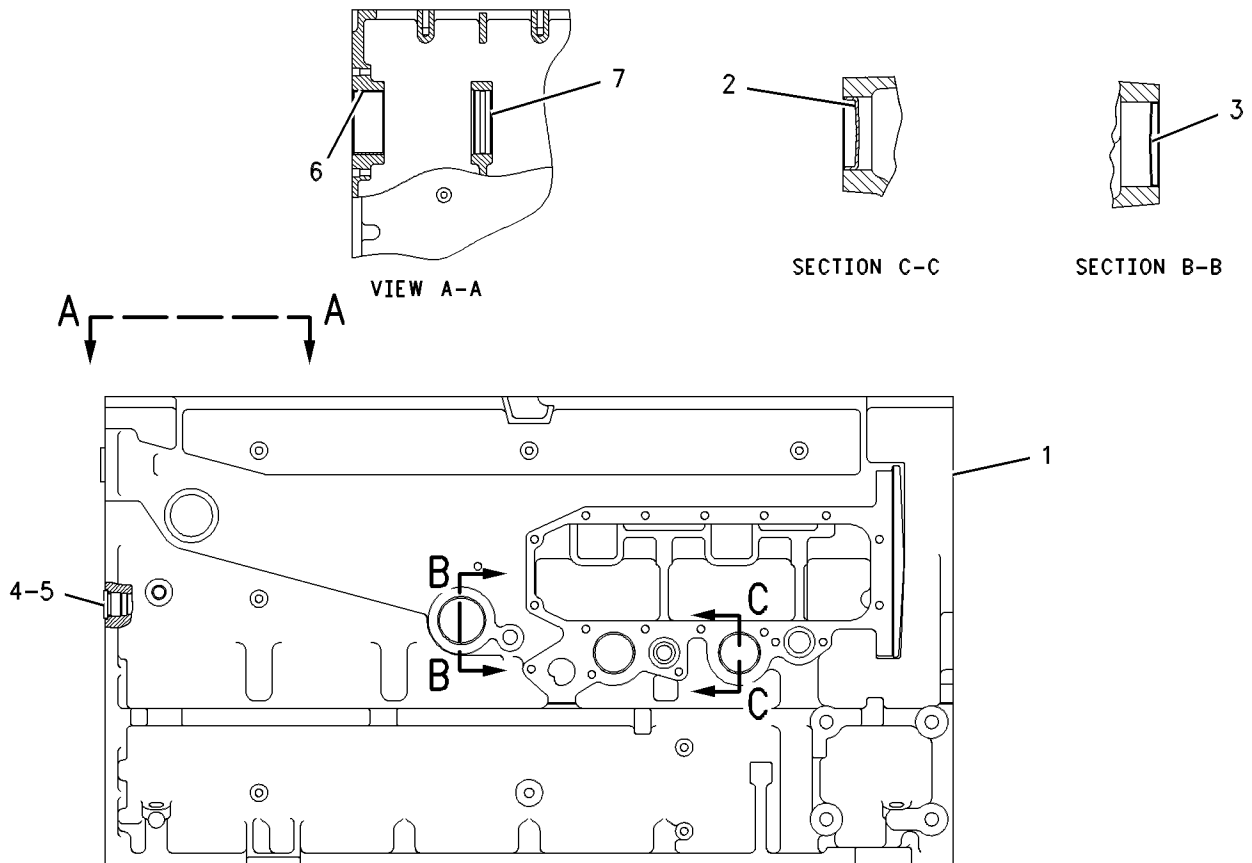
PART OF 129-1165 CYLINDER BLOCK GP

SMCS-1201

i01427199

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
Y	1	1	129-1163	1	CYLINDER BLOCK GP	20
	2	1	2M-6471	2	PLUG-CUP	
	3	1	3H-5552	1	PLUG-CUP	
	4	1	9S-8006	1	PLUG	
	5	1	2M-9780	1	SEAL-O-RING (19.18MM ID)	
	6	1	2W-7211	1	BEARING-SLEEVE	
	7	1	2W-7213	6	BEARING-SLEEVE	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00611605

BASIC ENGINE

129-1165 CYLINDER BLOCK GP*R

S/N: 55K8513-UP

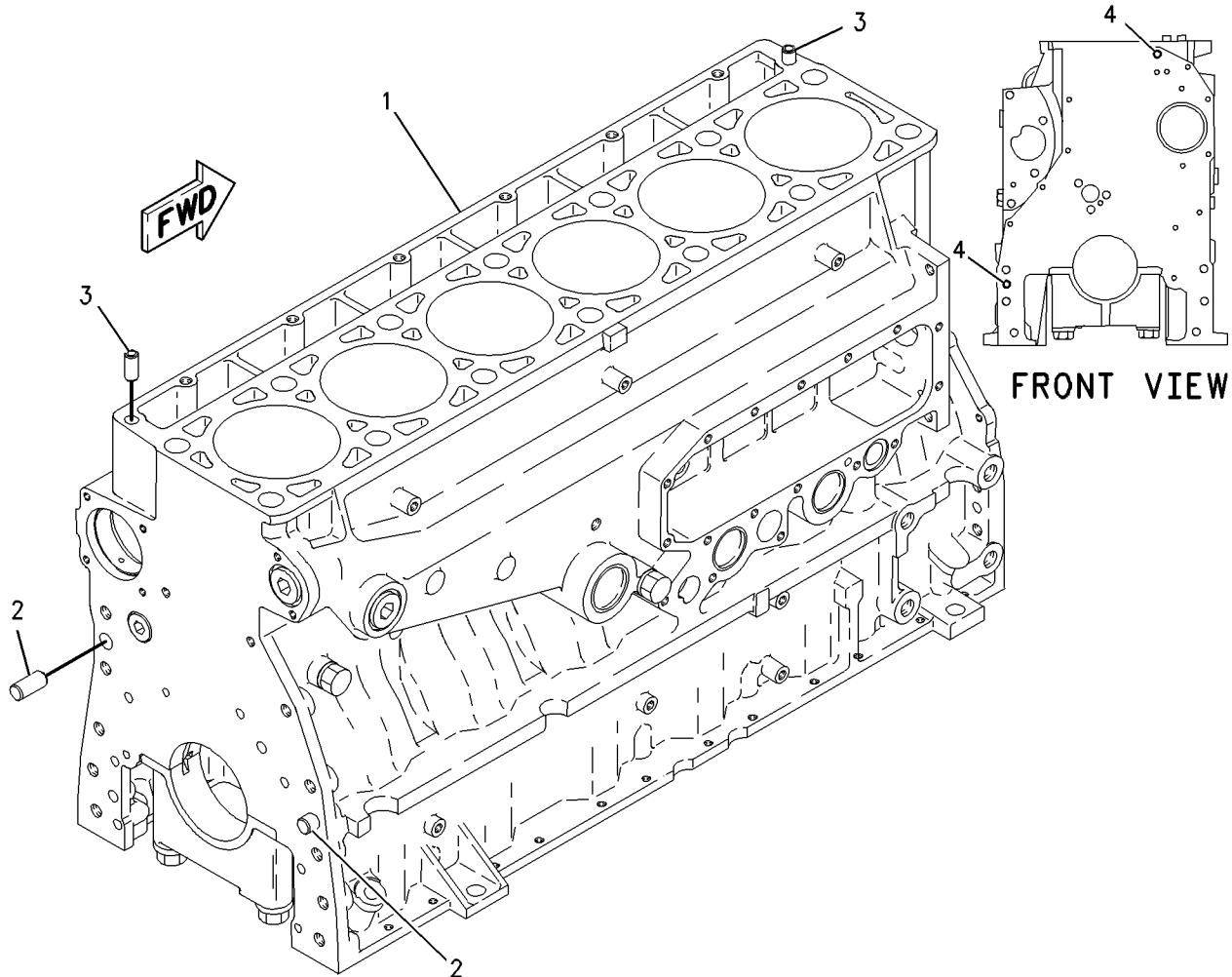
PART OF 168-8661 ENGINE AR-CORE

SMCS-1201

i01541285

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	129-1164	1	CYLINDER BLOCK GP						21
	2	1	7N-5683	2	DOWEL						
	3	1	1W-8407	2	SLEEVE						
	4	1	6V-3538	2	DOWEL						

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00800849

BASIC ENGINE

140-7370 CYLINDER HEAD GP

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

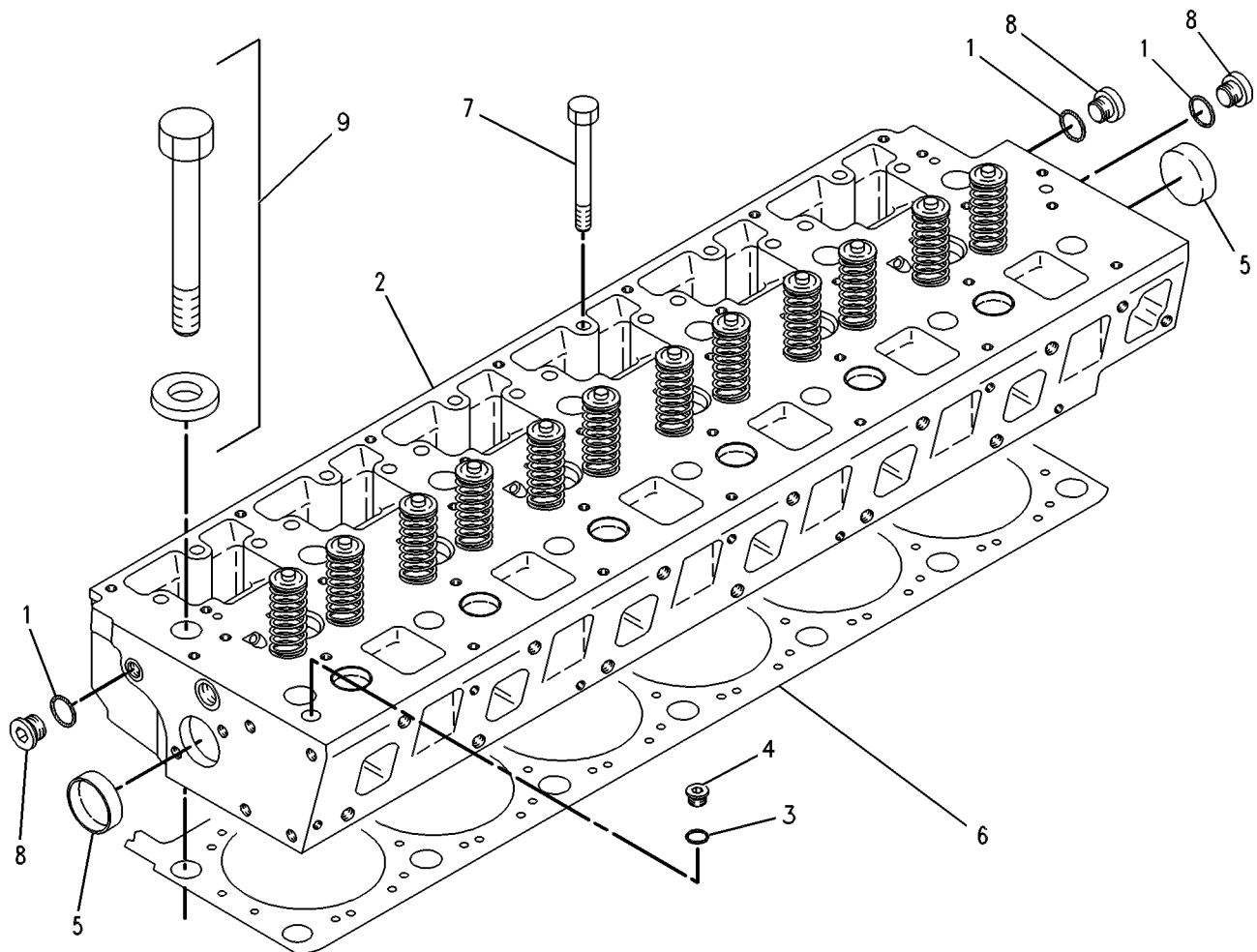
SMCS-1100

i01427209

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	1J-9671	3	SEAL-O-RING (10.52MM ID)	
Y	2	1	140-7371	1	CYLINDER HEAD GP	24
	3	1	3J-7354	1	SEAL-O-RING (8.92MM ID)	
	4	1	9S-8002	1	PLUG-O-RING	
	5	1	2M-6471	2	PLUG-CUP	
	6	1	144-3450	1	GASKET-CYLINDER HEAD	
M	7	1	8T-5030	6	BOLT (M10X1.5X120MM)	
	8	1	9S-8003	3	PLUG-O-RING	
M	9	1	127-4836	14	BOLT-HEX HEAD (M20X2.5X160MM)	
		1	8T-3282	14	WASHER-HARD (22X35X3.5MM THK)	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00254573

BASIC ENGINE

140-7371 CYLINDER HEAD GP

S/N: 55K8513-UP

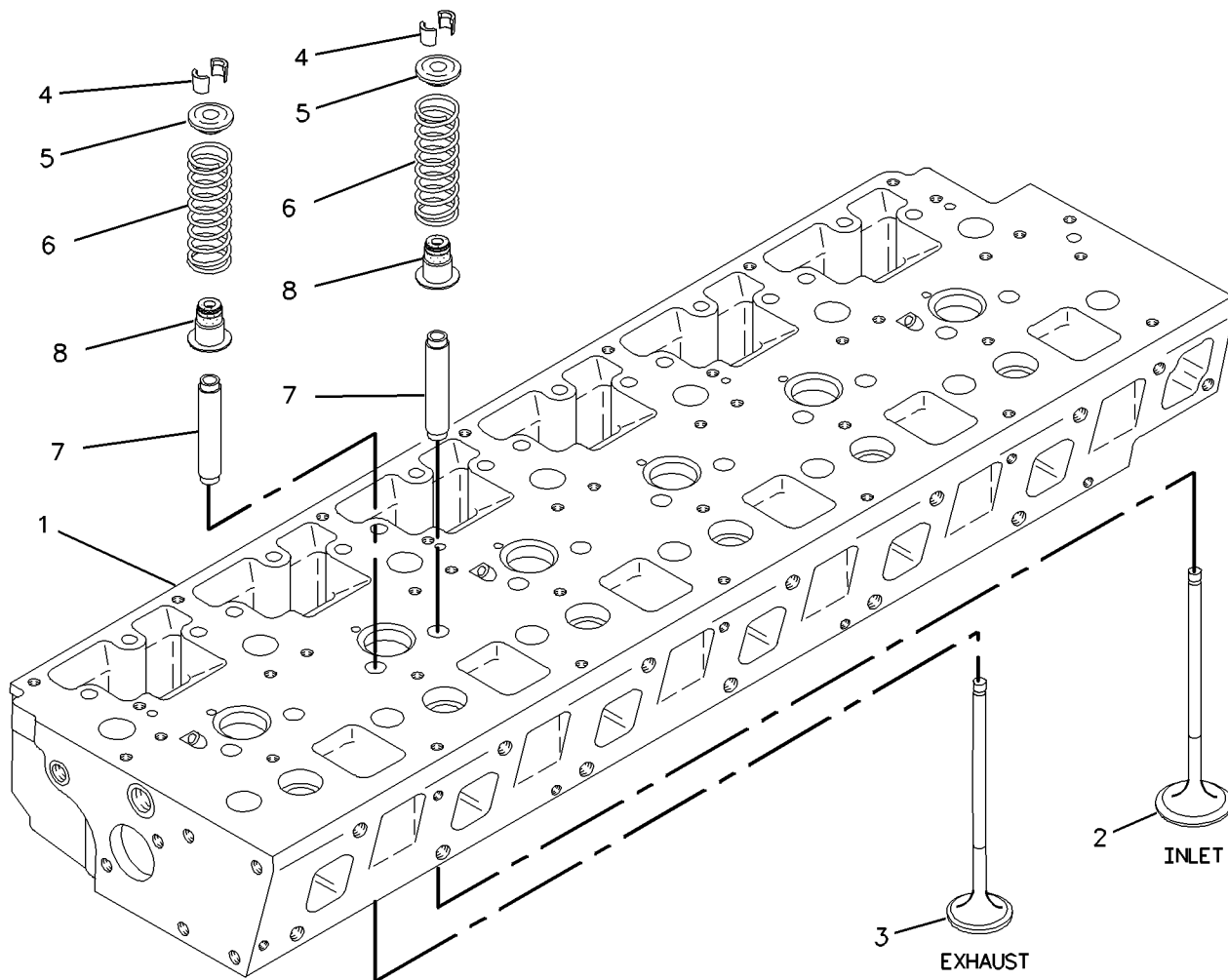
PART OF 140-7370, 160-5130 CYLINDER HEAD GP
FIELD REPLACEMENT ORDER 160-5130-PAGE 25

SMCS-1100

i01515996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	190-9066	1	CYLINDER HEAD GP						26
	2	1	161-4280	6	VALVE-INLET						
	3	1	136-0819	6	VALVE-EXHAUST						
	4	1	1W-2715	24	LOCK-RETAINER						
	5	1	7E-7779	12	RETAINER-SPRING						
	6	1	7C-4273	12	SPRING-VALVE						
	7	1	9Y-8848	12	GUIDE-VALVE						
	8	1	119-3036	12	SEAL-VALVE STEM						

Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00655837

BASIC ENGINE

160-5130 CYLINDER HEAD GP*R

S/N: 55K8513-UP

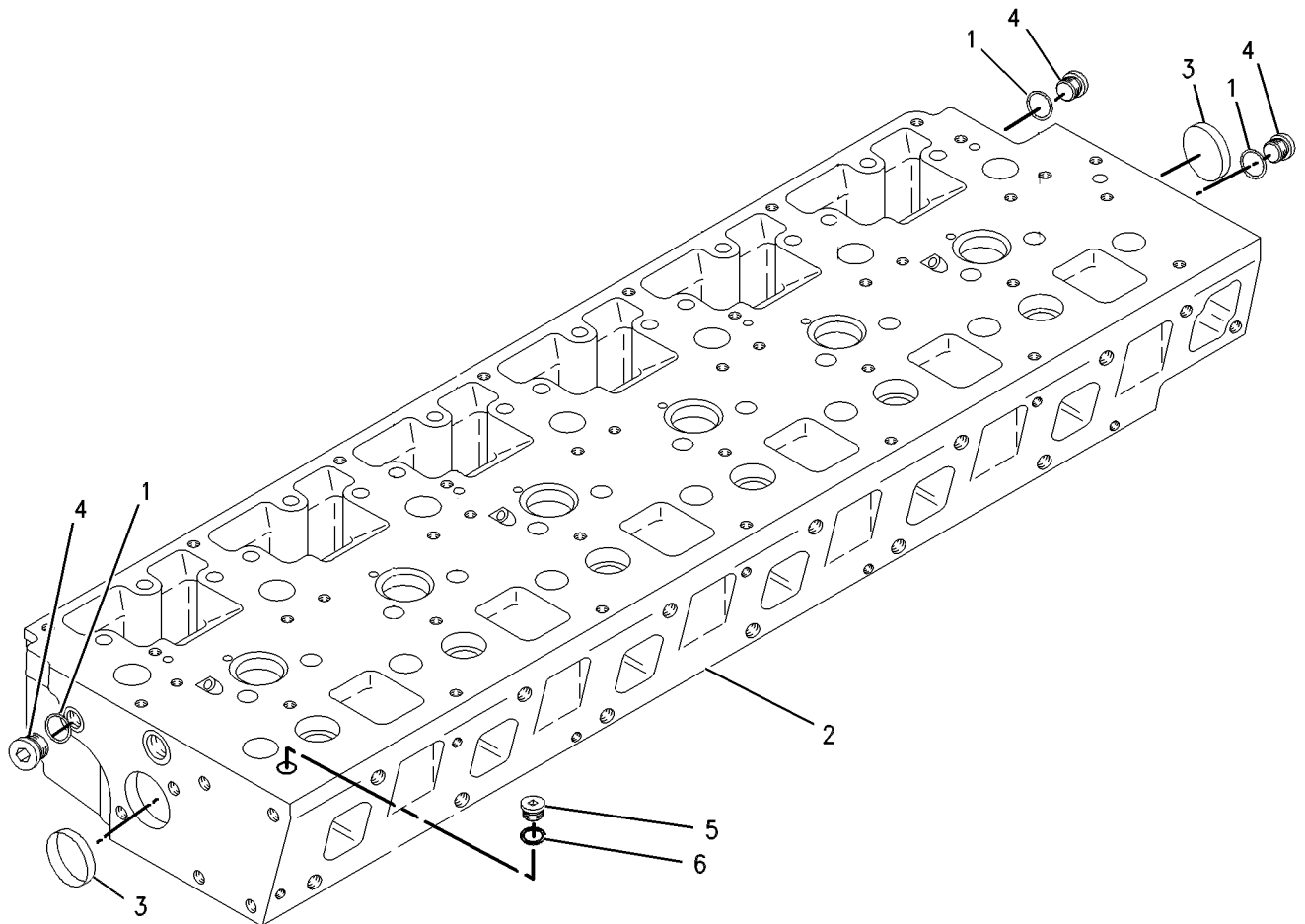
FIELD REPLACEMENT FOR 140-7371—PAGE 24

SMCS-1100

i01427247

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	1J-9671	3	SEAL-O-RING (10.52MM ID)	
Y	2	1	140-7371	1	CYLINDER HEAD GP	24
	3	1	2M-6471	2	PLUG-CUP	
	4	1	9S-8003	3	PLUG-O-RING	
	5	1	9S-8002	1	PLUG-O-RING	
	6	1	3J-7354	1	SEAL-O-RING (8.92MM ID)	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00558789

BASIC ENGINE

190-9066 CYLINDER HEAD GP

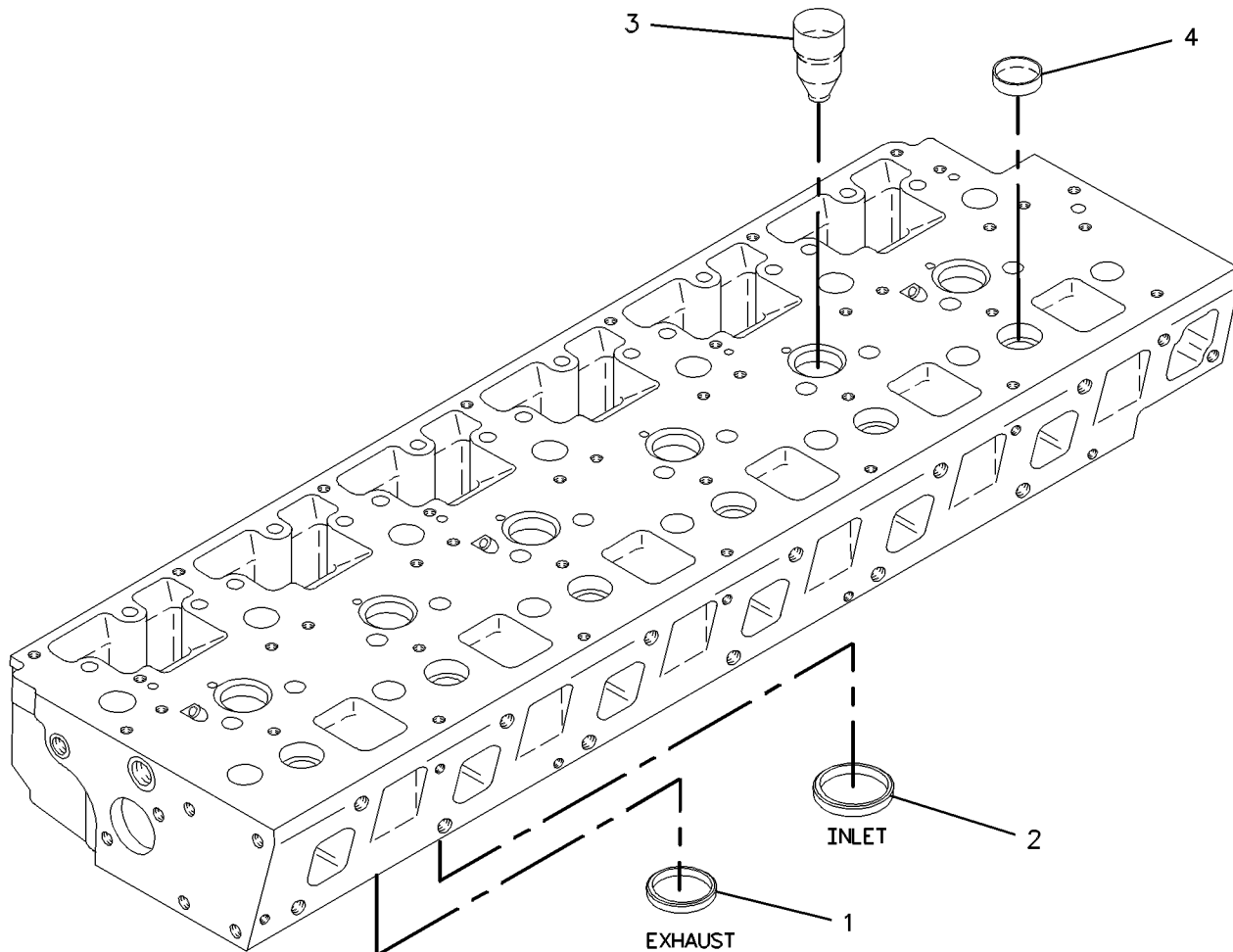
S/N: 55K8513-UP

PART OF 140-7371 CYLINDER HEAD GP

SMCS-1100

i01516216

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2713	6	INSERT-VALVE SEAT (EXHAUST)						
	2	1	163-9063	6	INSERT-VALVE SEAT (INLET)						
	3	1	119-3061	6	SLEEVE						
	4	1	8M-5860	6	PLUG-CUP						



GRAPHIC #1

g00564059

BASIC ENGINE

133-5056 DAMPER & PULLEY GP

S/N: 55K8513-UP

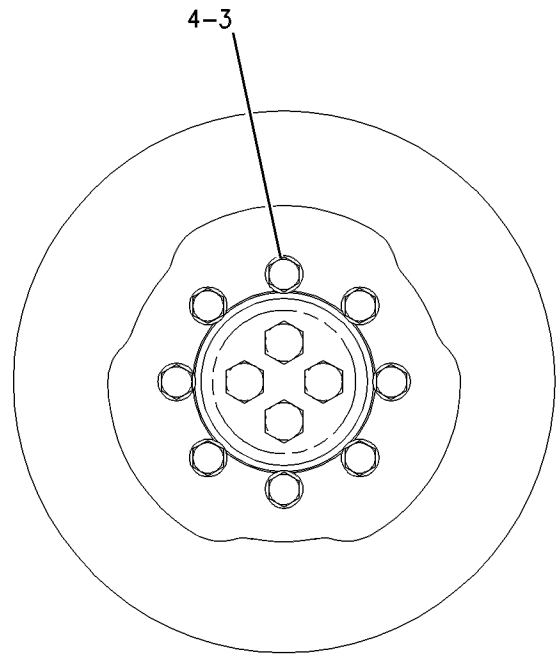
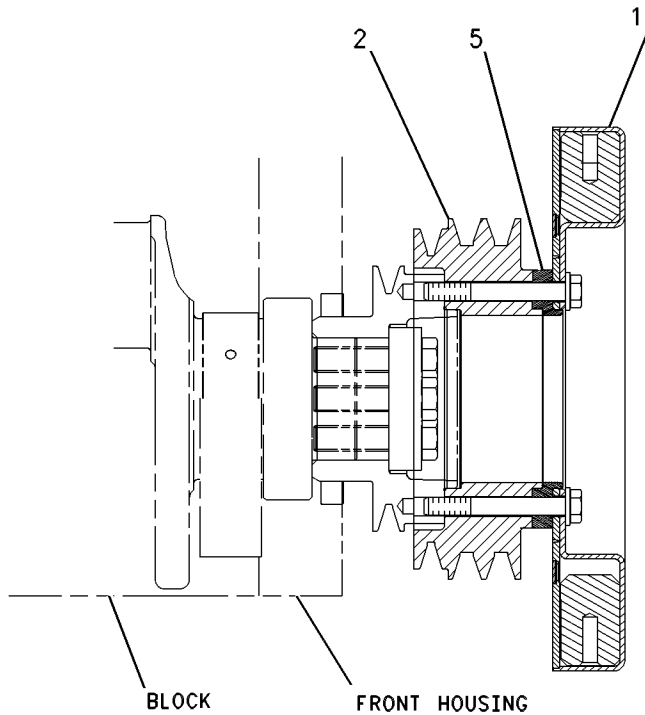
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1205

i01526017

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8121	1	DAMPER AS						
	2	1	6I-4083	1	PULLEY						
M	3	1	160-8492	8	BOLT (M10X1.5X85MM)						
	4	1	6V-5839	8	WASHER (11X21X2.5MM THK)						
	5	1	116-6332	1	SPACER-DAMPER						

M-METRIC PART



GRAPHIC #1

g00493389

BASIC ENGINE

7C-0044 DRIVE GP-FAN

S/N: 55K8513-UP

DOES NOT INCLUDE DRIVE BELTS, DRIVE PULLEY OR FAN ADAPTER

PART OF 197-8655 ENGINE AR-COMplete

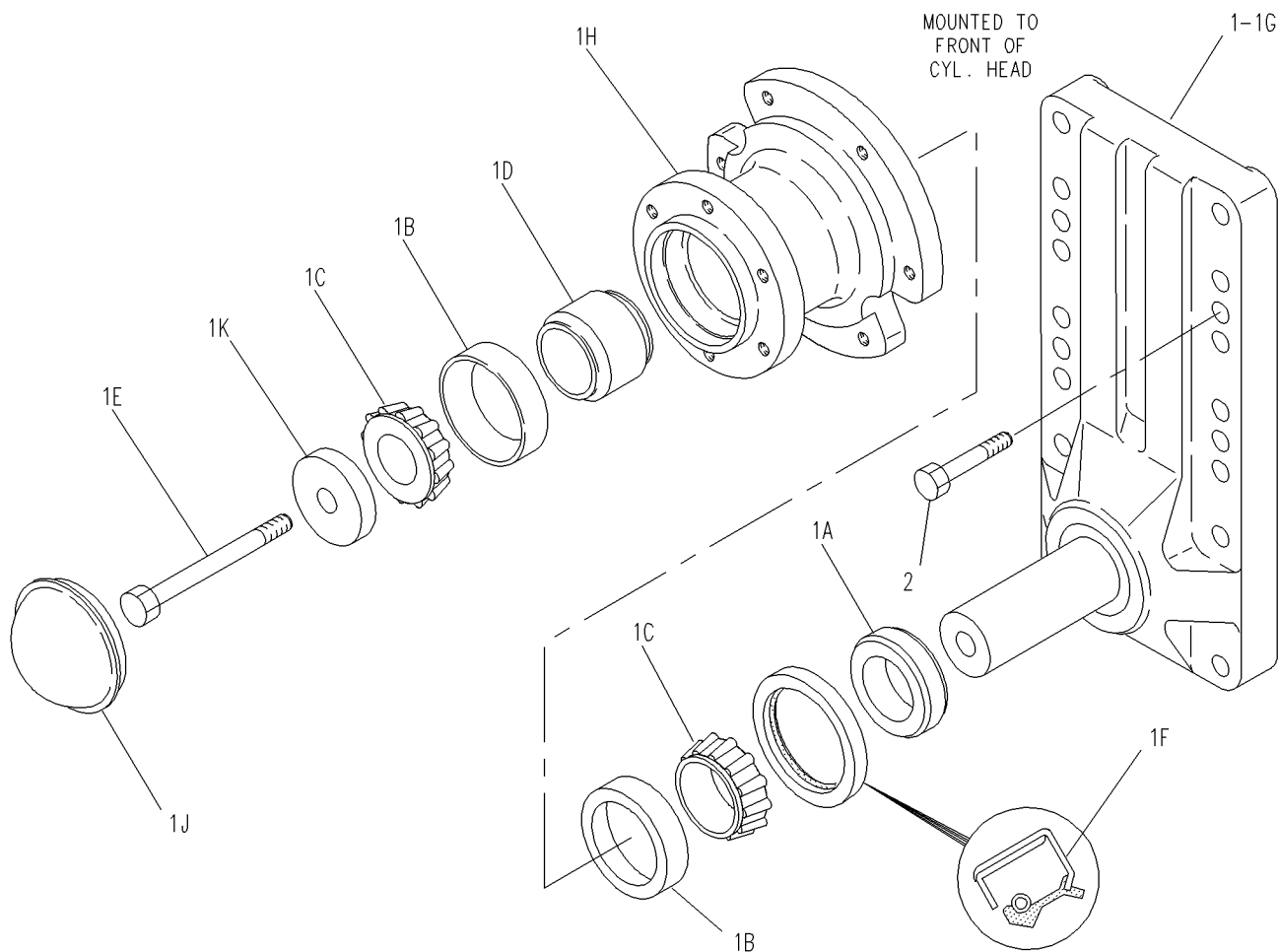
FOR USE WITH INDUSTRIAL ENGINE WITH FAN DRIVE REQUIREMENTS

SMCS-1359

i01343744

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-8365	1	DRIVE GP-FAN						
	1A	1	5S-9062	1	SPACER (15.88MM THK)						
	1B	1	4W-1203	2	CUP-ROLLER BEARING						
	1C	1	4W-1204	2	CONE-ROLLER BEARING						
	1D	1	4W-2042	1	SPACER (38.331MM THK)						
M	1E	1	6V-8004	1	BOLT (M12X1.75X120MM)						
	1F	1	6V-9748	1	SEAL-LIP						
	1G	1	7C-8366	1	BRACKET AS						
	1H	1	7C-8369	1	HUB						
	1J	1	7C-8370	1	CAP						
	1K	1	7C-8634	1	PLATE						
M	2	1	6V-4249	4	BOLT (M10X1.5X50 MM)						

M-METRIC PART



GRAPHIC #1

g00691977

BASIC ENGINE

4W-5428 DRIVE GP-WATER PUMP

S/N: 55K8513-UP

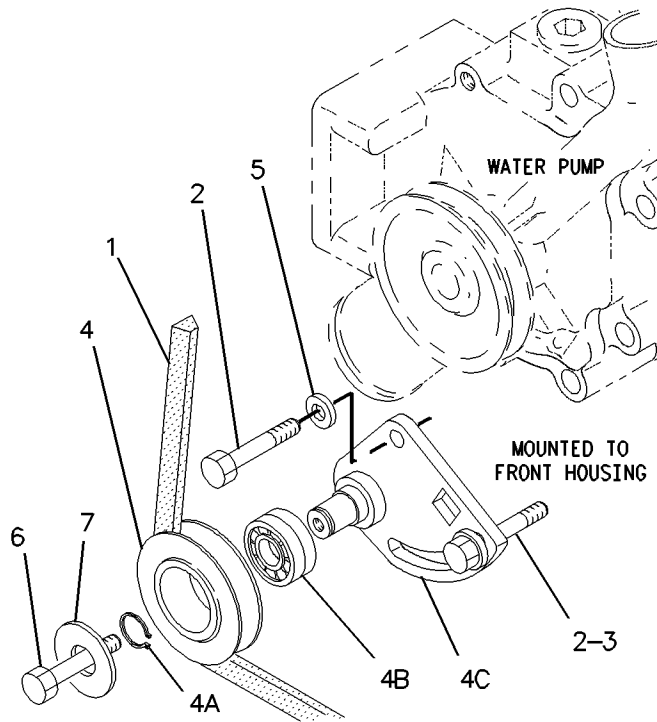
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1361

i01541192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	036-6775	1	V-BELT (WATER PUMP)						
M	2	1	6V-2317	2	BOLT (M8X1.25X30MM)						
	3	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5MM THK)						
	4	1	115-4204	1	PULLEY AS-IDLER						
		1	115-4237	1	PULLEY-IDLER						
	4A	1	2L-8509	1	LOCK RING						
	4B	1	117-7114	1	BEARING AS-BALL						
	4C	1	100-6267	1	PLATE AS-IDLER						
	5	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
M	6	1	6V-5215	1	BOLT (M8X1.25X16MM)						
	7	1	4F-3714	1	WASHER						

M-METRIC PART



GRAPHIC #1

g00692126

BASIC ENGINE

154-7192 FASTENER GP-FRONT HOUSING

S/N: 55K8513-UP

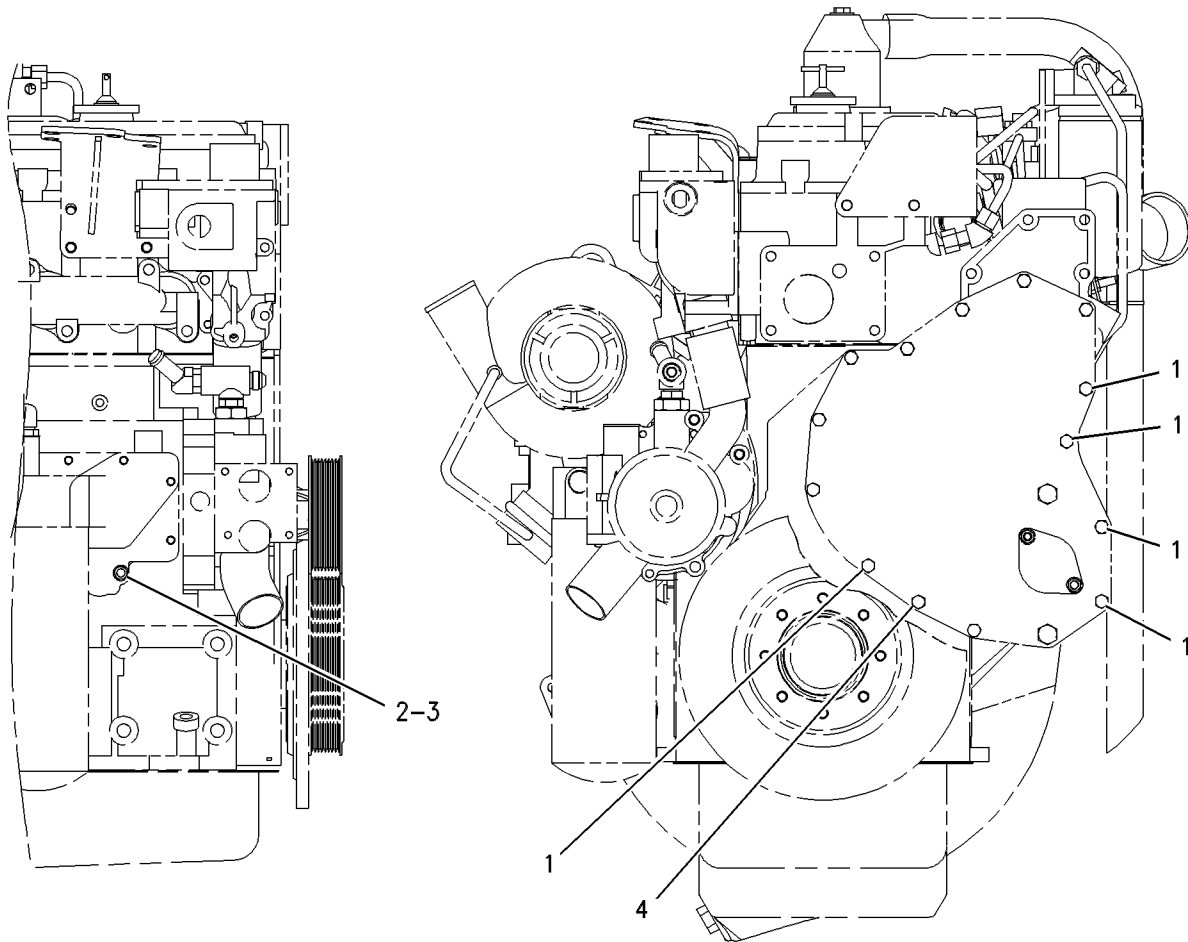
PART OF 197-8655 ENGINE AR-COMPLETE

FOR USE WITH FRONT COVER, NO STUDS, SHORT FRONT END

SMCS-1162

i01373115

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	5	BOLT (M8X1.25X30MM)						
M	2	1	9X-2098	1	STUDBOLT (M8X1.25X67.75MM OAL)						
	3	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	8T-0100	1	BOLT (M8X1.25X60MM)						
M-METRIC PART											



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

g00441463

BASIC ENGINE

9Y-6092 FLYWHEEL GP

S/N: 55K8513-UP

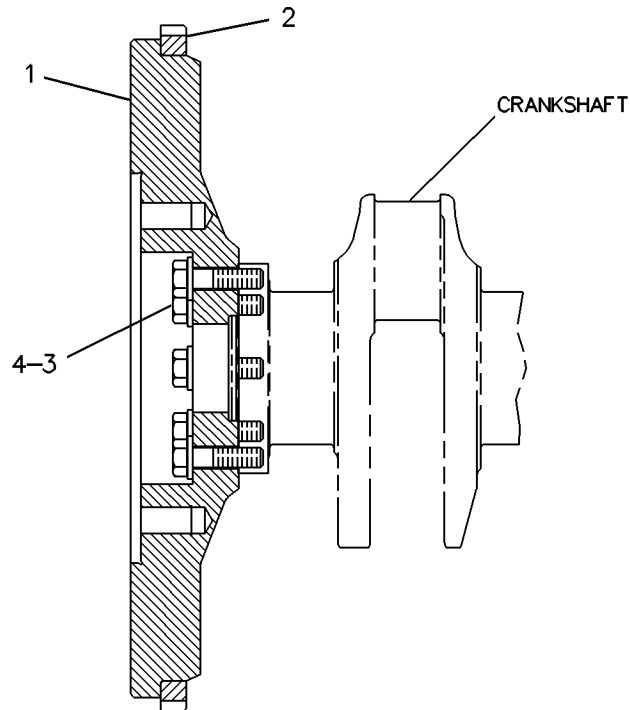
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1156

i01237559

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	160-8180	1	FLYWHEEL AS						
	2	1	1W-1064	1	GEAR-FLYWHEEL RING (126 TEETH)						
M	3	1	9Y-7734	8	BOLT-LOCKING						
	4	1	5P-8245	8	WASHER-HARD (3MM THK)						

M-METRIC PART



GRAPHIC #1

g00221394

BASIC ENGINE

101-4540 GEAR GP - FRONT

S/N: 55K8513-UP

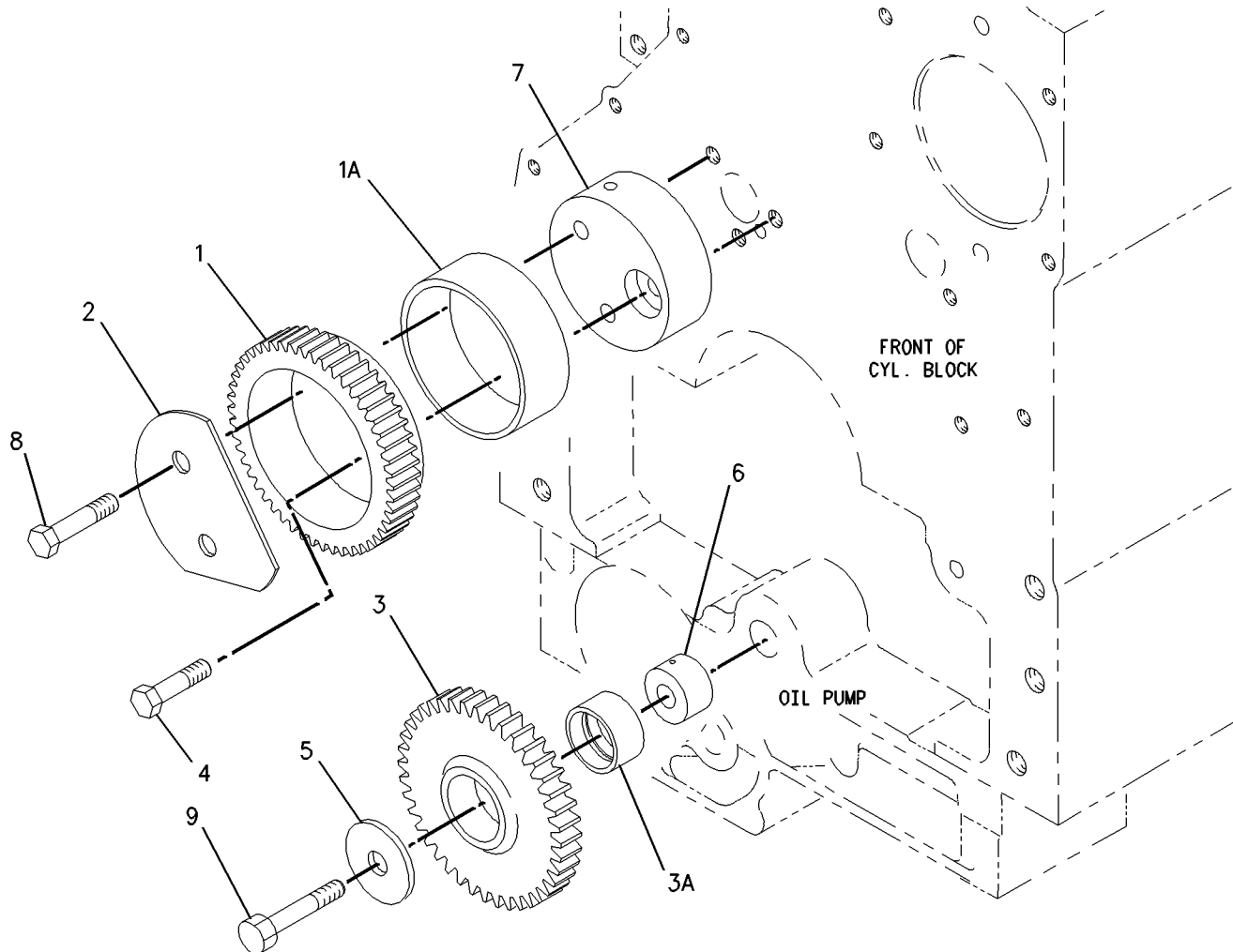
PART OF 168-8661 ENGINE AR-CORE

SMCS-1206

i01306548

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-8476	1	GEAR AS-IDLER (50 TEETH)						
	1A	1	2W-7566	1	BEARING-SLEEVE						
	2	1	101-3208	1	PLATE-RETAINING						
	3	1	7W-9740	1	GEAR AS-IDLER (43 TEETH)						
	3A	1	7W-9930	1	BEARING-SLEEVE						
M	4	1	6V-3822	1	BOLT (M10X1.5X35MM)						
	5	1	7W-9738	1	WASHER						
	6	1	7W-9737	1	SHAFT-OIL PUMP						
	7	1	101-3207	1	SHAFT-CAM IDLER						
M	8	1	6V-5843	2	BOLT (M10X1.50X45MM)						
M	9	1	9X-2305	1	BOLT-LOCKING						

M-METRIC PART



GRAPHIC #1

g00692130

BASIC ENGINE

7W-8813 HOUSING GP-FLYWHEEL

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

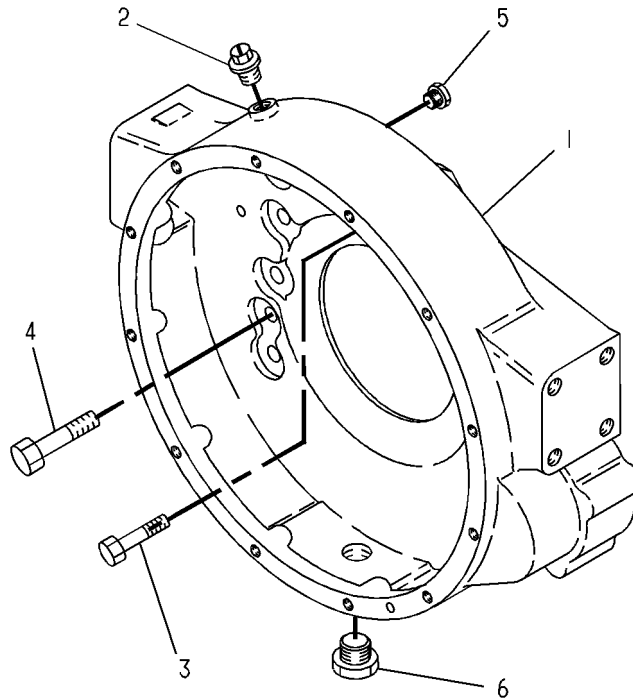
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING EQUIPPED WITH STARTING MOTOR MOUNTING
FLANGE ON RH SIDE

SMCS-1157

i01174895

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	7C-5233	1	HOUSING-FLYWHEEL	
	2	1	2P-1294	1	PLUG-SEAL	
M	3	1	6V-5842	2	BOLT (M10X1.50X40MM)	
M	4	1	8T-0226	10	BOLT (M14X2X45 MM)	
	5	1	9S-4182	1	PLUG (7/16-20 THD)	
B	6	1	9S-4183	1	PLUG (1 1/16-12 THD)	

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00125439

BASIC ENGINE

101-4539 HOUSING GP-FRONT

S/N: 55K8513-UP

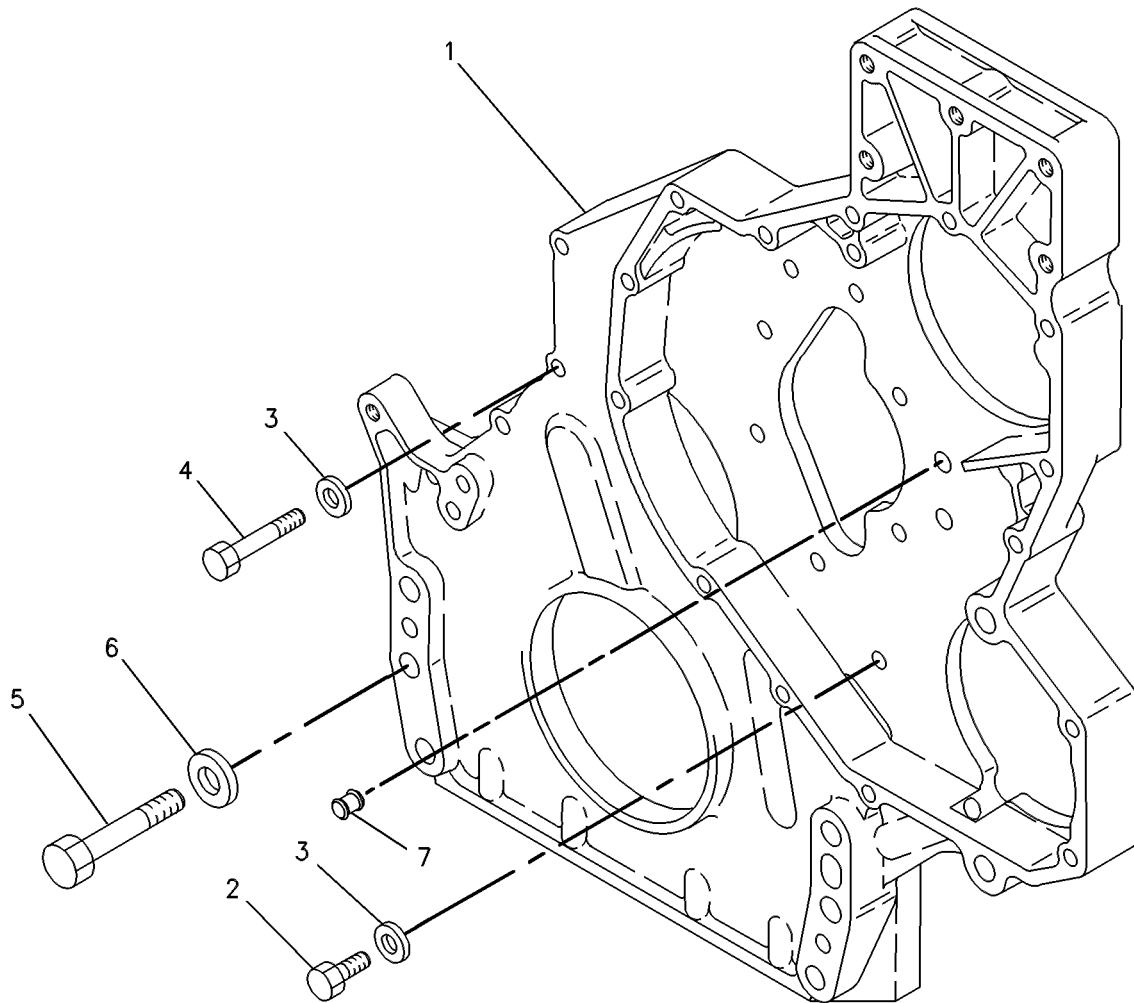
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1151

i01099522

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	132-5242	1	HOUSING-FRONT	
B		1	1U-8846		SEALANT	
M	2	1	6V-5217	8	BOLT (M8X1.25X20MM)	
	3	1	9M-1974	12	WASHER-HARD (2MM THK)	
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)	
M	5	1	6V-8336	6	BOLT (M12X1.75X70MM)	
	6	1	5P-8245	6	WASHER (3MM THK)	
	7	1	107-7611	2	PLUG	

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00108885

BASIC ENGINE

117-3476 LIFTING GP-ENGINE

S/N: 55K8513-UP

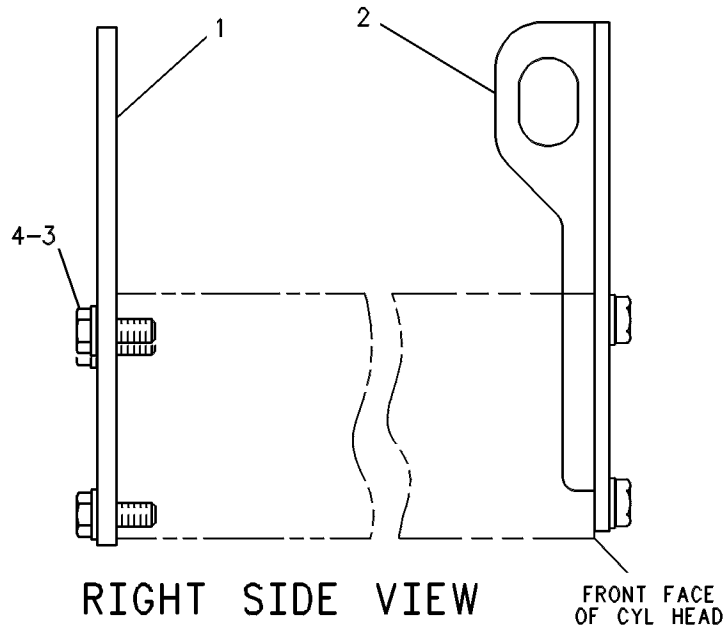
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1122

i00574646

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-1682	1	PLATE-LIFTING						
	2	1	4W-1683	1	PLATE-LIFTING						
M	3	1	6V-4248	4	BOLT (M10X1.50X25MM)						
	4	1	6V-5839	4	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00243733

BASIC ENGINE

4P-4372 MECHANISM GP-FUEL PUMP & VALVE

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

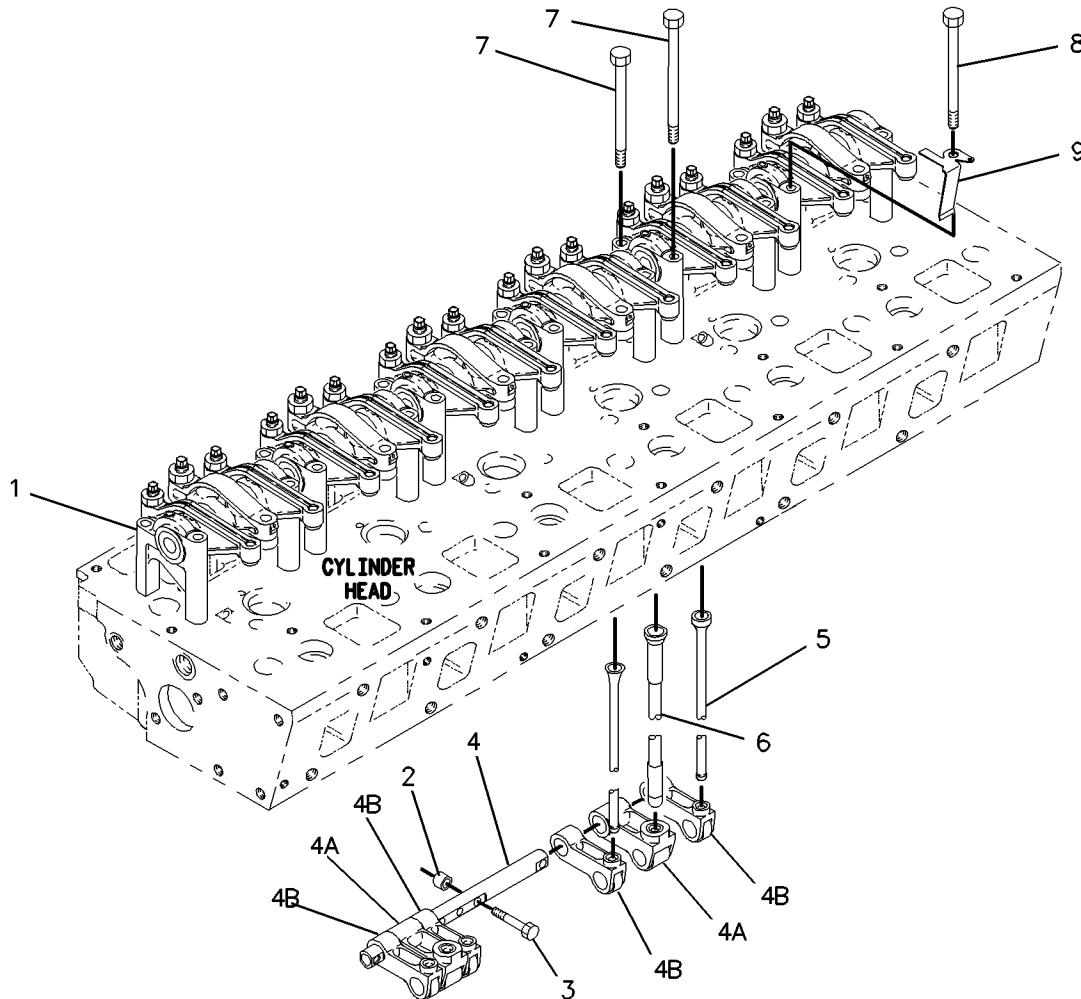
SMCS-1102

i01356586

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
Y	1	1	107-7722	6	ROCKER ARM GP	47
	2	1	3E-9412	6	DOWEL-BUSHING	
M	3	1	8T-8442	12	BOLT-SOCKET HEAD (M6X1X30MM)	
	4	1	7C-6078	3	LIFTER GP	
					(EACH INCLUDES)	
		1	4P-7738	1	SHAFT AS-LIFTER	
		1	2D-6642	2	BALL	
	4A	1	7E-6794	2	ARM AS-INJECTOR	
	4B	1	146-8147	4	ARM AS-LIFTER	
	5	1	6I-1241	12	PUSHROD	
	6	1	4P-8577	6	ROD AS-INJECTOR	
M	7	1	6V-5223	23	BOLT (M8X1.25X100MM)	
M	8	1	9X-6005	1	BOLT-LOCKING	
	9	1	7E-5984	1	COVER	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00715903

MEMORANDA

BASIC ENGINE

178-6448 MOUNTING GP-ENGINE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1152

i01349926

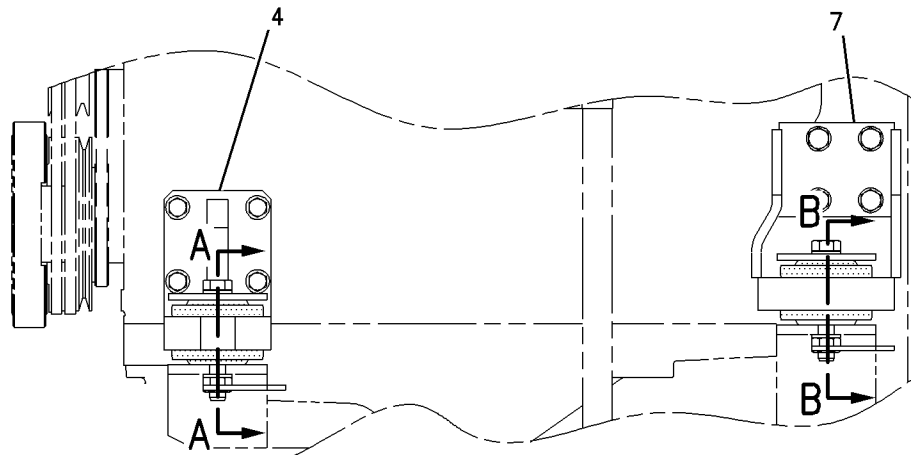
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	118-9803	1	BRACKET AS-FRONT						
	2	1	7X-0510	6	WASHER-HARD (3MM THK)						
M	3	1	096-9259	6	BOLT (M14X2X60MM)						
	4	1	118-9806	1	BRACKET AS-FRONT						
M	5	1	096-9988	2	BOLT						
	6	1	7M-0242	2	WASHER (5MM THK)						
	7	1	178-6462	1	BRACKET AS						
	8	1	9X-8257	8	WASHER (3.50MM THK)						
M	9	1	7X-2555	8	BOLT (M16X2.0X80MM)						
	10	1	118-9797	1	BRACKET AS-REAR						
M	11	1	7X-2532	4	BOLT (M20X2.5X130MM)						
	12	1	8T-4123	8	WASHER-PLATED (3.5MM THK)						
	13	1	109-9329	4	WASHER						
	14	1	118-9930	4	SUPPORT AS						
M		1	8T-4131	1	NUT (M20X2.50 THD)						
	15	1	109-9369	4	MOUNT-RUBBER						
	16	1	109-9350	4	MOUNT-RUBBER						

M-METRIC PART

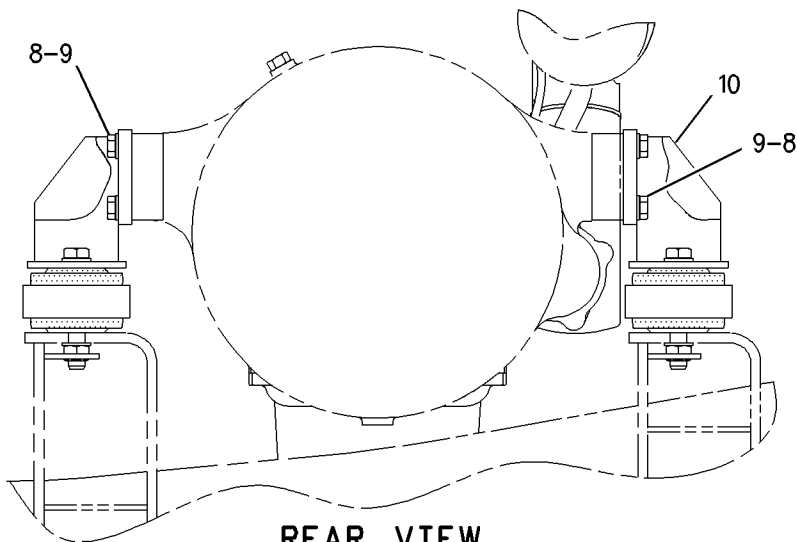
BASIC ENGINE

178-6448 MOUNTING GP-ENGINE (contd.)

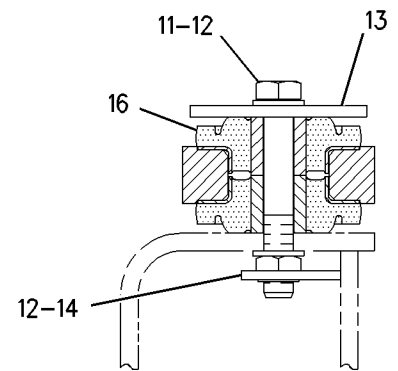
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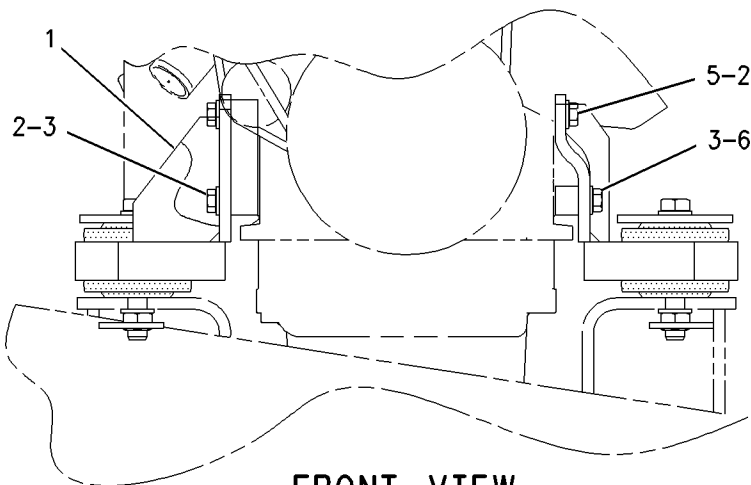
LEFT SIDE VIEW



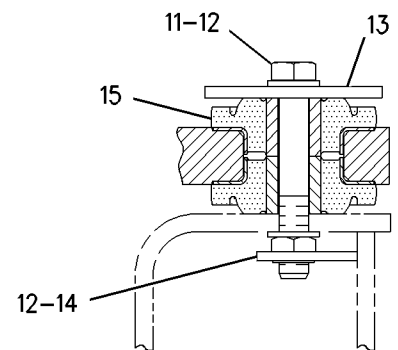
REAR VIEW



SECTION B-B



FRONT VIEW



SECTION A-A

GRAPHIC #1

g00715207

BASIC ENGINE

176-9429 PAN GP-OIL

S/N: 55K8513-UP

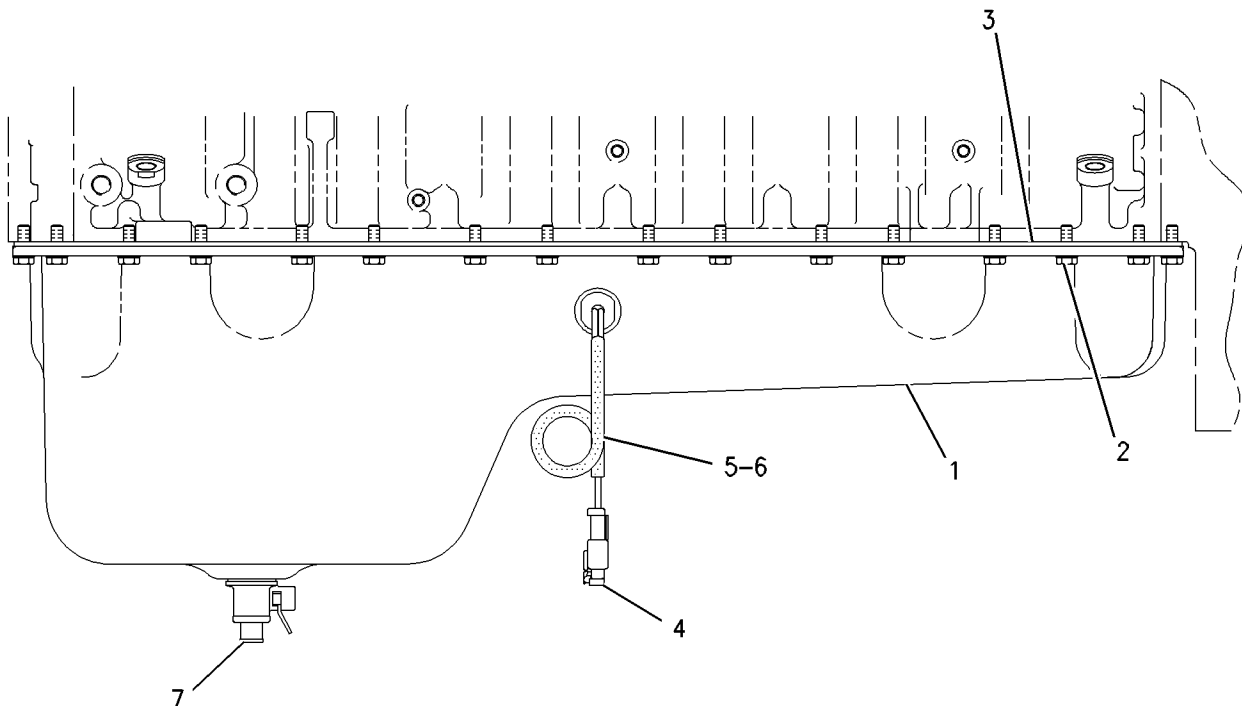
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1302

i01477574

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	176-9430	1	PAN AS-OIL						
M	2	1	175-3676	36	BOLT-HEX HEAD						
	3	1	166-2905	1	SEAL-INTEGRAL						
	4	1	188-2128	1	PLUG AS						
	5	1	170-9376	1	SWITCH AS (HYDRAULIC OIL LEVEL)						
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
		1	180-9339	1	PIN-CONNECTOR						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	6	1	189-9377	1	SEAL-O-RING						
	7	1	5I-8015	1	COCK AS						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00769644

MEMORANDA

BASIC ENGINE

147-9592 PISTON & ROD GP

S/N: 55K8513-UP

17:1 RATIO

PART OF 168-8661 ENGINE AR-CORE

SMCS-1225

i01161198

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-4983	1	CROWN AS-PISTON						
	2	1	132-5246	1	RING-PISTON (TOP)						
	3	1	107-7630	1	RING-PISTON (INTERMEDIATE)						
	4	1	107-7566	1	RING-PISTON (OIL REGULATING)						
	5	1	7C-0111	2	RETAINER-PIN						
	6	1	168-7226	1	PIN-PISTON						
R	7	1	2W-9128	1	ROD AS-CONNECTING						
	8	1	2W-0027	1	BEARING						
	9	1	9N-3832	2	BOLT-CONNECTING ROD						
	10	1	9L-7669	2	NUT-CONNECTING ROD (7/16-20 THD)						
	11	1	7W-9415	1	BEARING-CONNECTING ROD (STANDARD)						
A		1	7C-6976	1	BEARING (.25MM US)						
A		1	7C-6977	1	BEARING (.5MM US)						
	12	1	115-4083	1	SKIRT-PISTON						
	13	1	135-5970	1	TUBE AS-PISTON COOLING JET						
M	14	1	6V-3940	1	BOLT (M8X1.25X25MM)						

A-NOT PART OF THIS GROUP

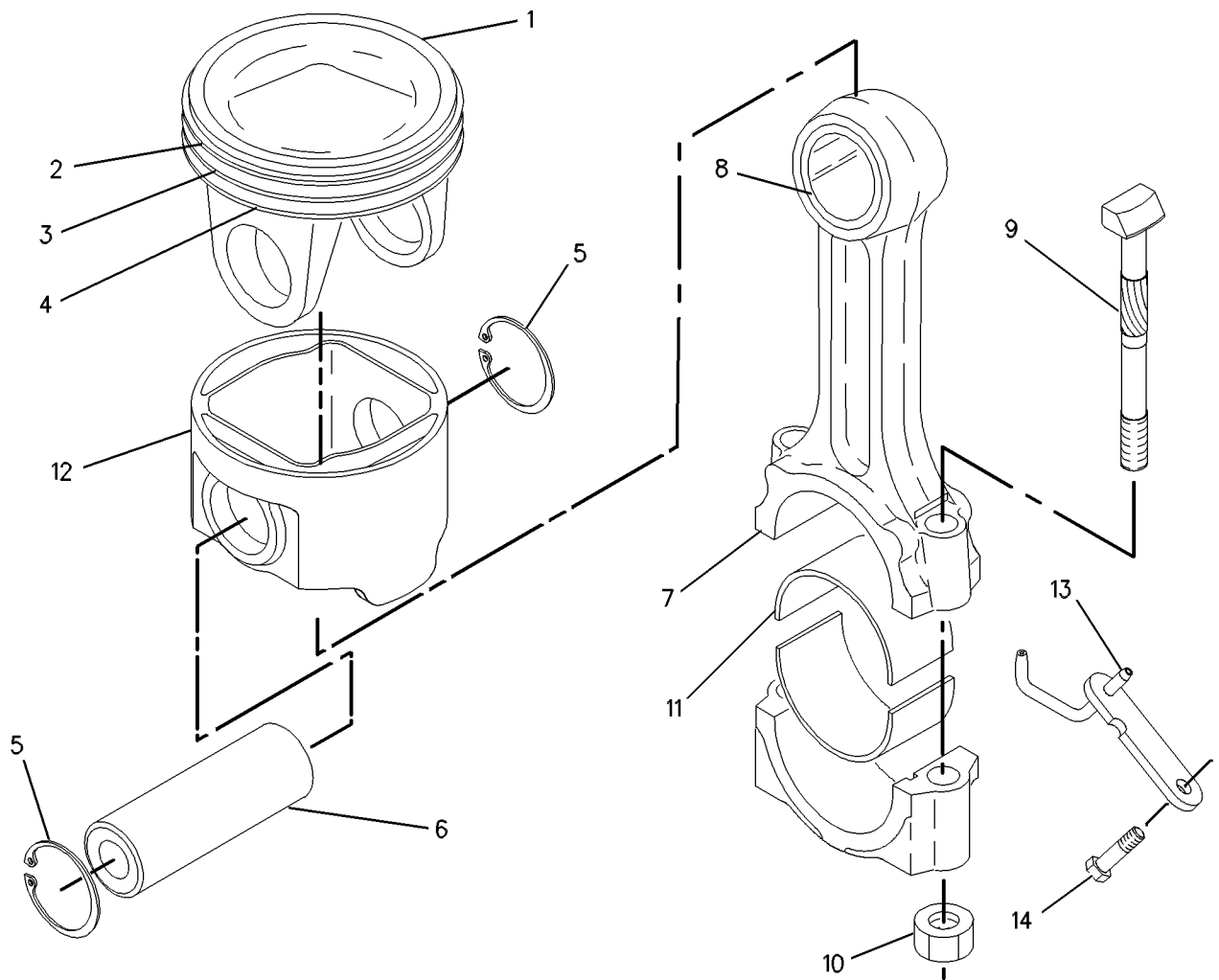
M-METRIC PART

R-REMFG PART MAY BE AVAILABLE

BASIC ENGINE

147-9592 PISTON & ROD GP (contd.)

i01161198



GRAPHIC #1

g00588834

BASIC ENGINE

156-0228 PLUG GP-CYLINDER BLOCK

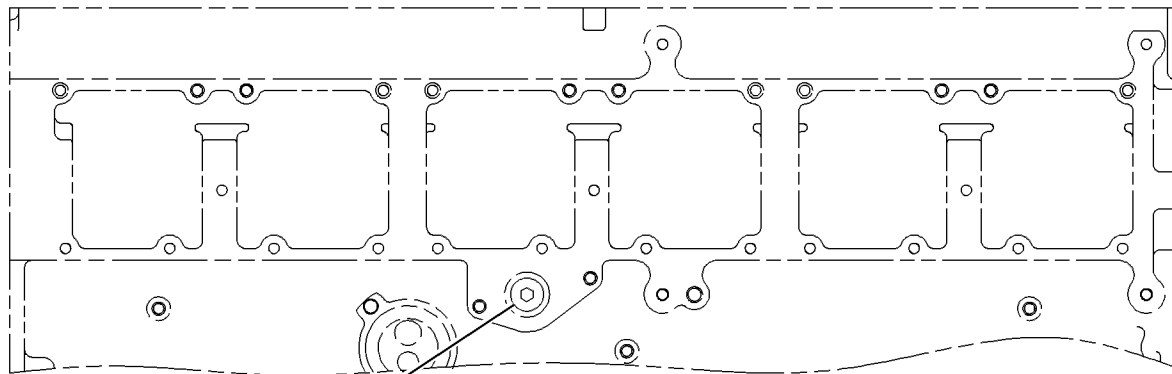
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMplete

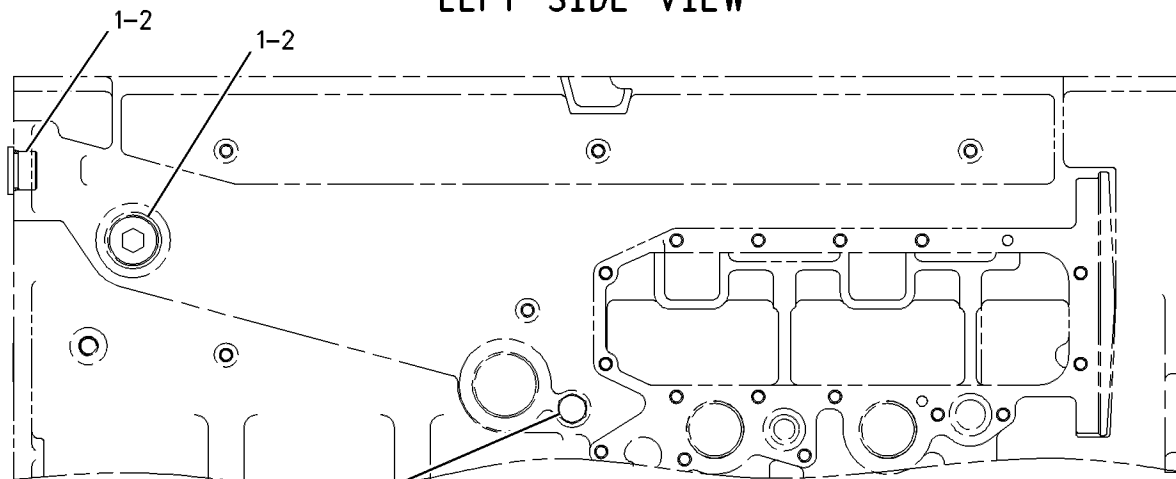
SMCS-1201

i01427301

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8008	2	PLUG-O-RING						
	2	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						
	3	1	9S-8005	1	PLUG						
	4	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	5	1	6F-7062	1	WASHER (12.7X19.05X1.83MM THK)						
M	6	1	8T-0293	1	BOLT (M12X1.75X20MM)						
M-METRIC PART											



LEFT SIDE VIEW



RIGHT SIDE VIEW

GRAPHIC #1

g00614423

BASIC ENGINE

197-3265 PULLEY GP

S/N: 55K8513-UP

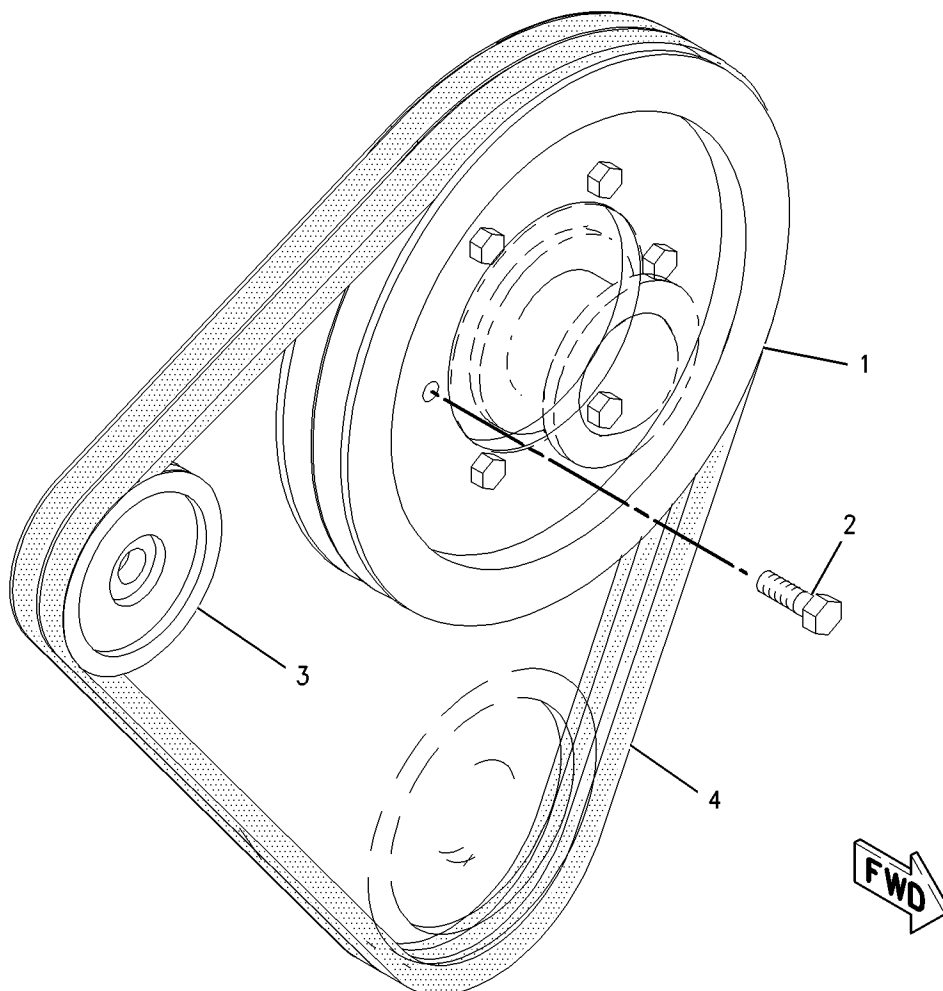
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1205, 1207, 1358, 1384, 1425

i01530992

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	112-3689	1	PULLEY-FAN DRIVE						
M	2	1	8T-4908	6	BOLT (M8X1.25X25MM)						
	3	1	1W-4369	1	PULLEY-ALTERNATOR						
	4	1	4N-2532	1	V-BELT SET (INCLUDES 2 BELTS)						

M-METRIC PART



GRAPHIC #1

g00795070

BASIC ENGINE

4W-5429 PULLEY GP-CRANKSHAFT

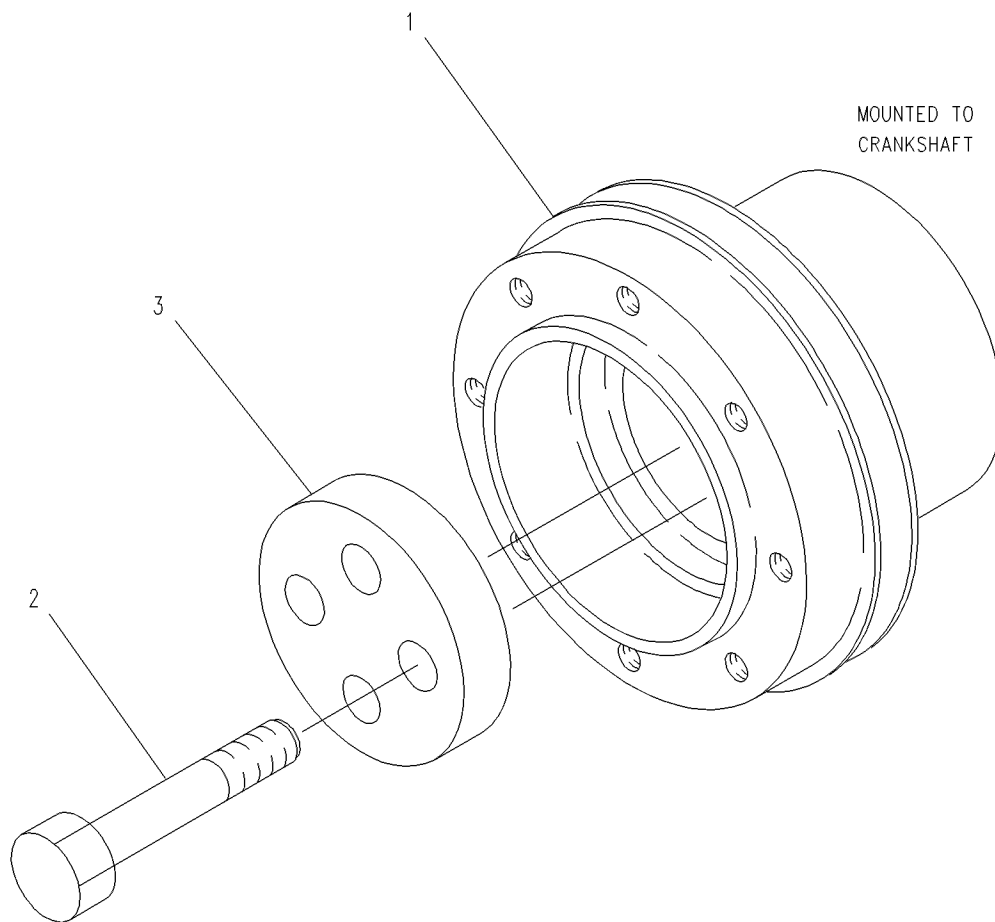
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1205

i01141311

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	7W-3773	1	PULLEY - CRANKSHAFT						
	2	1	8T-3666	4	BOLT (M14X60MM)						
	3	1	2W-7381	1	WASHER - CLAMP						
M-METRIC PART											



GRAPHIC #1

g00605341

BASIC ENGINE

107-7722 ROCKER ARM GP

S/N: 55K8513-UP

PART OF 4P-4372 MECHANISM GP-FUEL PUMP & VALVE

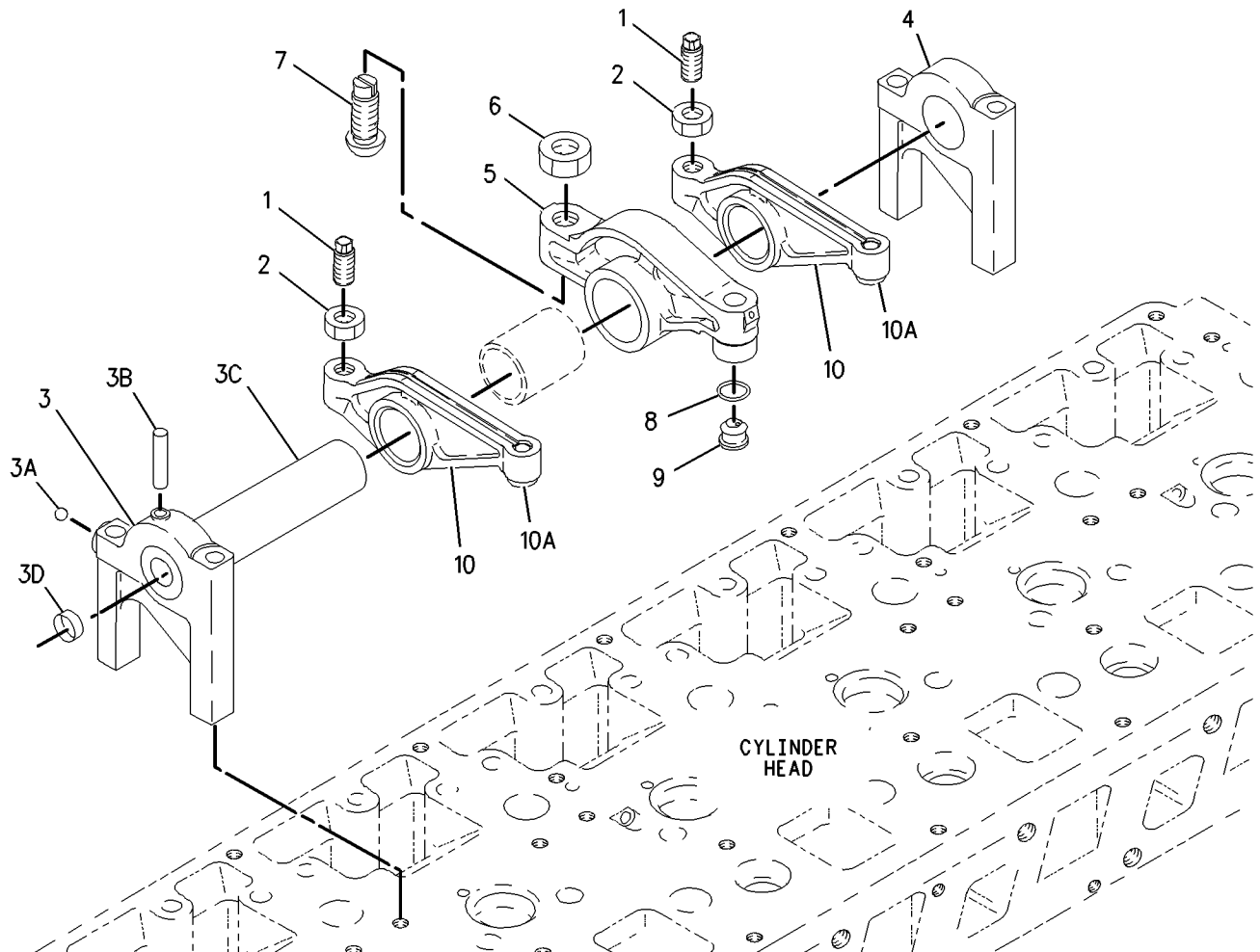
SMCS-1123

i01536586

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
M	1	1	9Y-4832	2	SCREW-VALVE ADJUSTMENT (M10X1.5X38MM)	
M	2	1	2Y-5829	2	NUT (M10X1.5 THD)	
	3	1	4P-7790	1	SHAFT AS-ARM	
	3A	1	2D-6642	1	BALL	
	3B	1	7M-5130	1	PIN-SPRING	
	3C	1	7W-4137	1	SHAFT AS	
	3D	1	0L-1026	1	PLUG-CUP	
	4	1	9Y-8534	1	SUPPORT-SHAFT	
	5	1	105-1776	1	ARM AS-UNIT INJECTOR	
M	6	1	7W-4117	1	NUT	
	7	1	9Y-4973	1	SCREW-INJECTION ADJUSTMENT	
	8	1	7W-3983	1	RING-RETAINING	
	9	1	9Y-1582	1	BUTTON-ARM	
R	10	1	6I-0924	2	ROCKER ARM AS	
					(EACH INCLUDES)	
	10A	1	100-6291	1	SEAT-WEAR	

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00733293

BASIC ENGINE

115-4210 SEAL GP - CRANKSHAFT

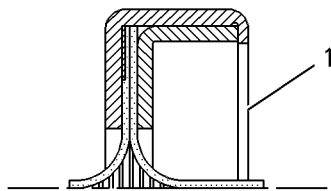
S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

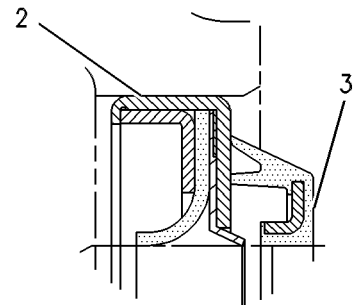
SMCS-1160, 1161

i00767748

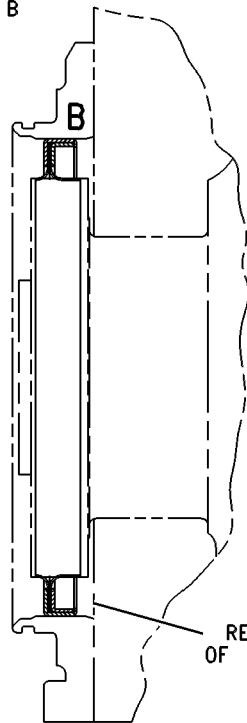
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-4120	1	SEAL GP - CRANKSHAFT						
	2	1	119-2921	1	SEAL GP - CRANKSHAFT						
	3	1	4R-9999	1	EXCLUDER - CRANKSHAFT SEAL						



VIEW OF
AREA B

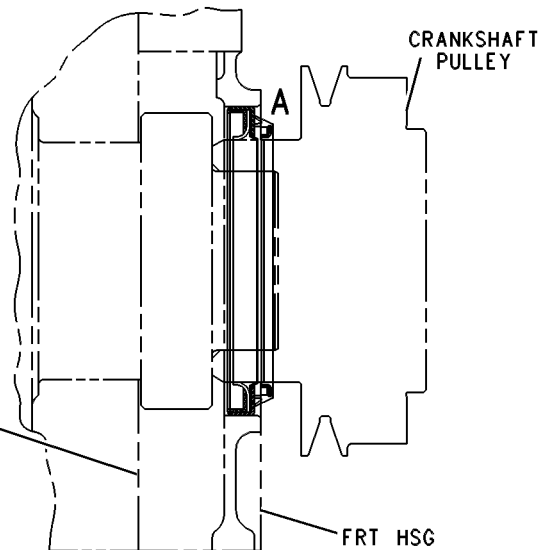


VIEW OF
AREA A



REAR FACE
OF CYL BLOCK

FRONT FACE
OF CYL BLOCK



RIGHT SIDE VIEW

GRAPHIC #1

g00109240

LUBRICATION SYSTEM

173-3503 BASE GP-OIL FILTER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

RETURN FILTER BASE

PART OF 158-9005 FILTER GP-OIL

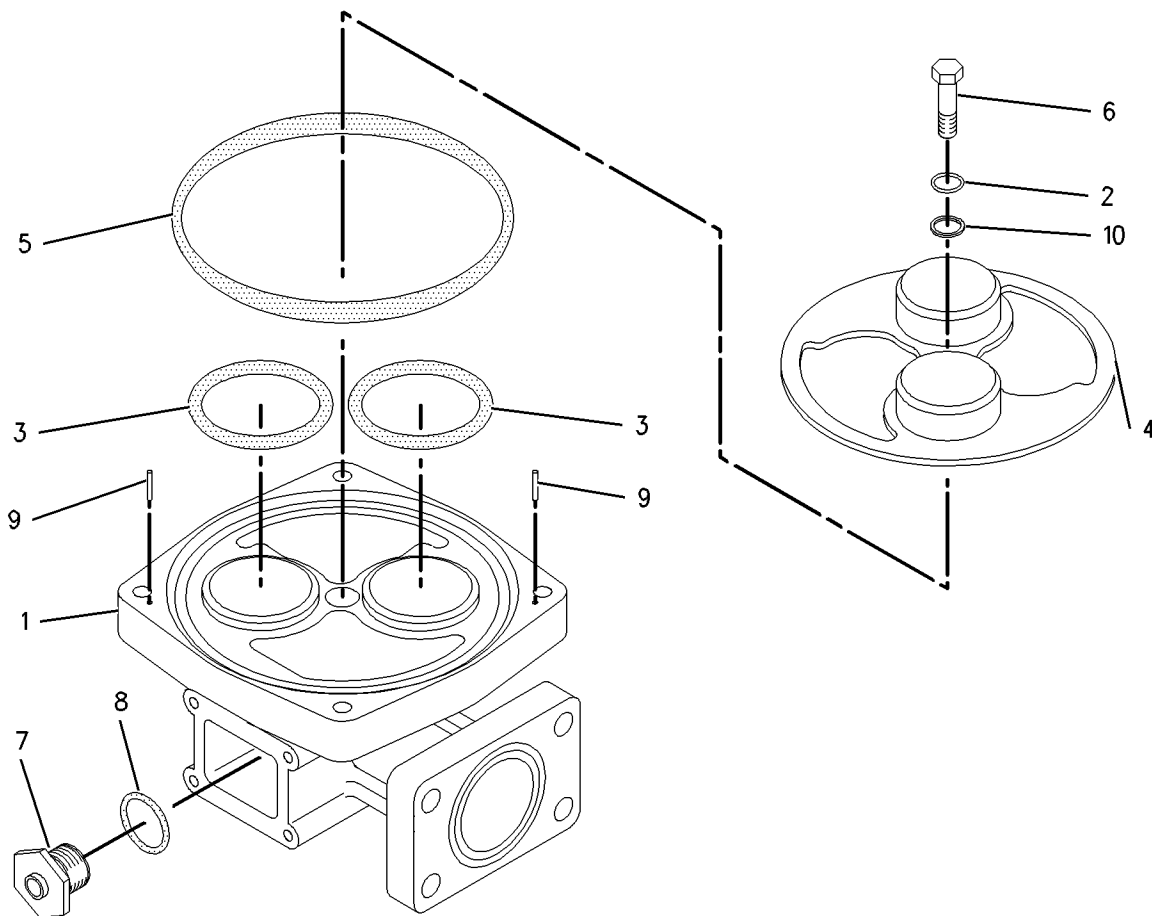
SMCS-1306

i01387176

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	173-3504	1	BLOCK						
	2	1	5L-4758	1	SEAL-O-RING (14.0MM ID)						
	3	1	6V-7658	2	SEAL-O-RING (59.4 ID)						
	4	1	173-3505	1	PLATE-SLIDE						
	5	1	137-3631	1	PACKING						
M	6	1	137-3626	1	BOLT-SHOULDER (M6X1X28.75MM)						
	7	1	173-3506	1	PLUG AS						
	8	1	3J-1907	1	SEAL-O-RING (11.89MM ID)						
	9	1	7Y-5272	2	PIN-SPRING						
B	10	1	137-3628	1	SHIM (0.1MM THK)						

B-USE AS REQUIRED

M-METRIC PART



GRAPHIC #1

g00731058

LUBRICATION SYSTEM

183-2852 FILTER GP-ENGINE OIL

S/N: 55K8513-UP

REMOTE MOUNTED

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1308

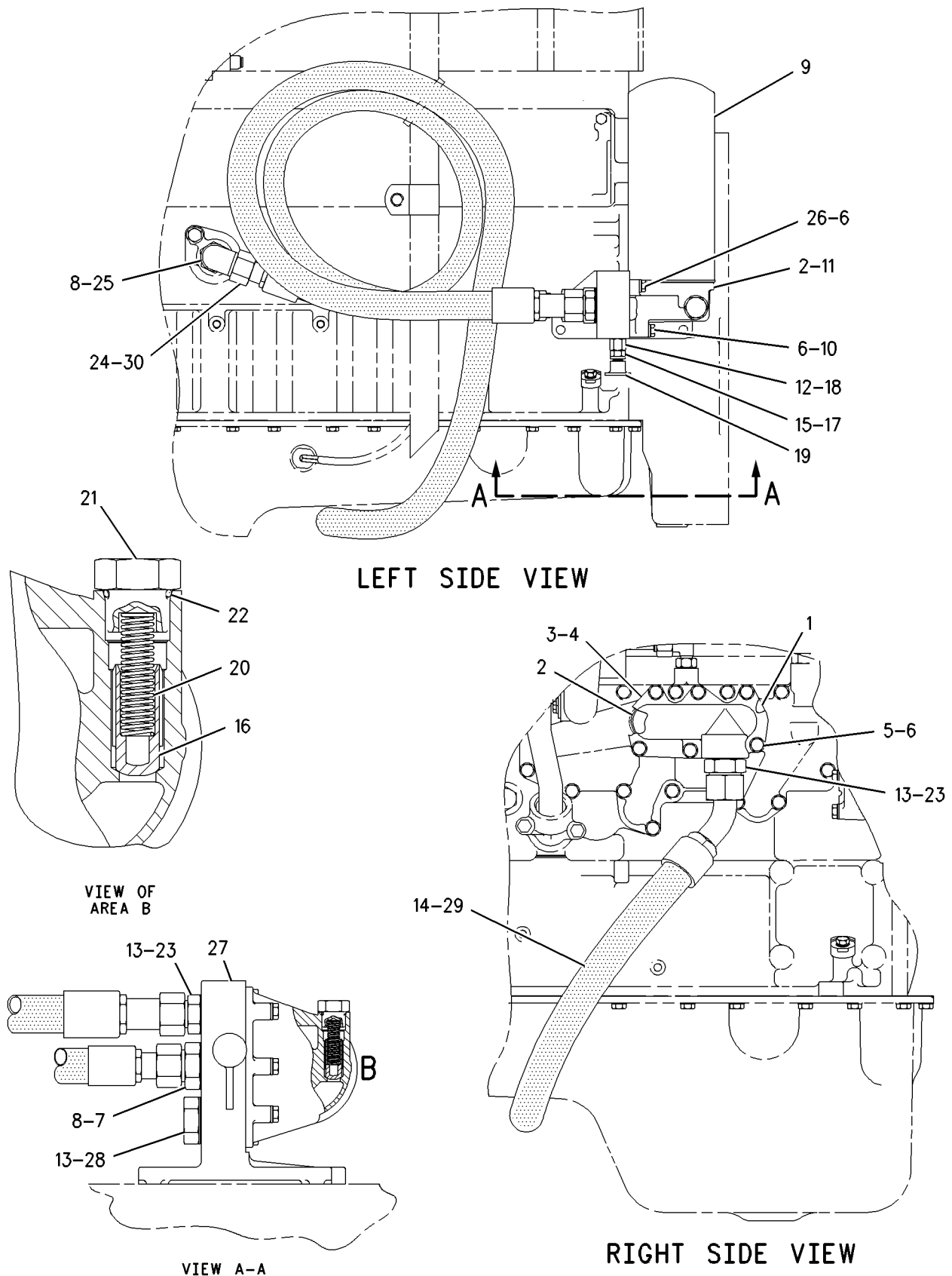
i01519815

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	7C-7489	1	PLATE	
	2	1	5F-9657	6	SEAL-O-RING	
	3	1	7C-7488	1	ADAPTER	
	4	1	7C-7490	1	GASKET	
M	5	1	6V-5218	6	BOLT (M8X1.25X35MM)	
	6	1	9M-1974	11	WASHER-HARD (8.8X16X2MM THK)	
	7	1	6V-8637	1	CONNECTOR-SEAL	
	8	1	3D-2824	2	SEAL-O-RING	
	9	1	1R-0739	1	FILTER AS-ENGINE OIL	
M	10	1	6V-5219	3	BOLT (M8X1.25X40MM)	
	11	1	7W-9028	1	BASE AS-OIL FILTER	
		1	2P-2537	1	STUD-HOLLOW	
	12	1	5P-9617	1	ADAPTER (9/16-18 THRD)	
	13	1	4K-1388	3	SEAL-O-RING	
	14	1	5K-9090	2	SEAL-O-RING	
	15	1	8C-3446	1	VALVE AS-FLUID SAMPLING	
	16	1	7C-1493	1	VALVE-BYPASS	
	17	1	3J-7354	1	SEAL-O-RING	
	18	1	3J-1907	1	SEAL-O-RING	
	19	1	8C-3445	1	CAP-DUST	
	20	1	9L-9188	1	SPRING-VALVE	
M	21	1	5P-8196	1	PLUG-O-RING	
	22	1	2M-9780	1	SEAL-O-RING	
	23	1	8T-6453	2	CONNECTOR	
	24	1	6V-9746	2	SEAL-O-RING	
	25	1	6V-9007	1	ELBOW	
M	26	1	6V-2317	2	BOLT (M8X1.25X30MM)	
	27	1	121-0307	1	BASE	
	28	1	9S-4188	1	PLUG-O-RING	
	29	1	202-1342	1	HOSE AS	
	30	1	124-1866	1	HOSE AS	
M-METRIC PART						

LUBRICATION SYSTEM

183-2852 FILTER GP-ENGINE OIL (contd.)

i01519815



GRAPHIC #1

g00708359

LUBRICATION SYSTEM

201-1214 FUMES DISPOSAL GP

S/N: 55K8513-UP

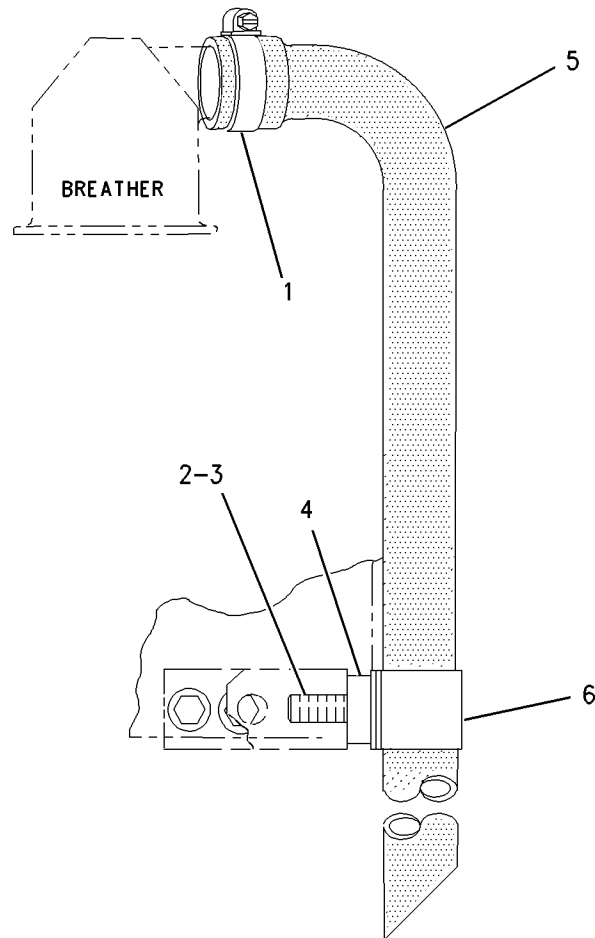
PART OF 197-8655 ENGINE AR-COMplete

SMCS-1317

i01540620

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-2904	1	CLAMP-HOSE						
	2	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5MM THK)						
M	3	1	6V-2317	1	BOLT (M8X1.25X30MM)						
	4	1	7W-3447	1	SPACER (10.2X19.05X10.2MM THK)						
	5	1	6I-1545	1	HOSE-DISPOSAL						
	6	1	2S-2053	1	CLIP						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00800549

LUBRICATION SYSTEM

199-6564 GAUGE GP-OIL LEVEL (DIPSTICK)

S/N: 55K8513-UP

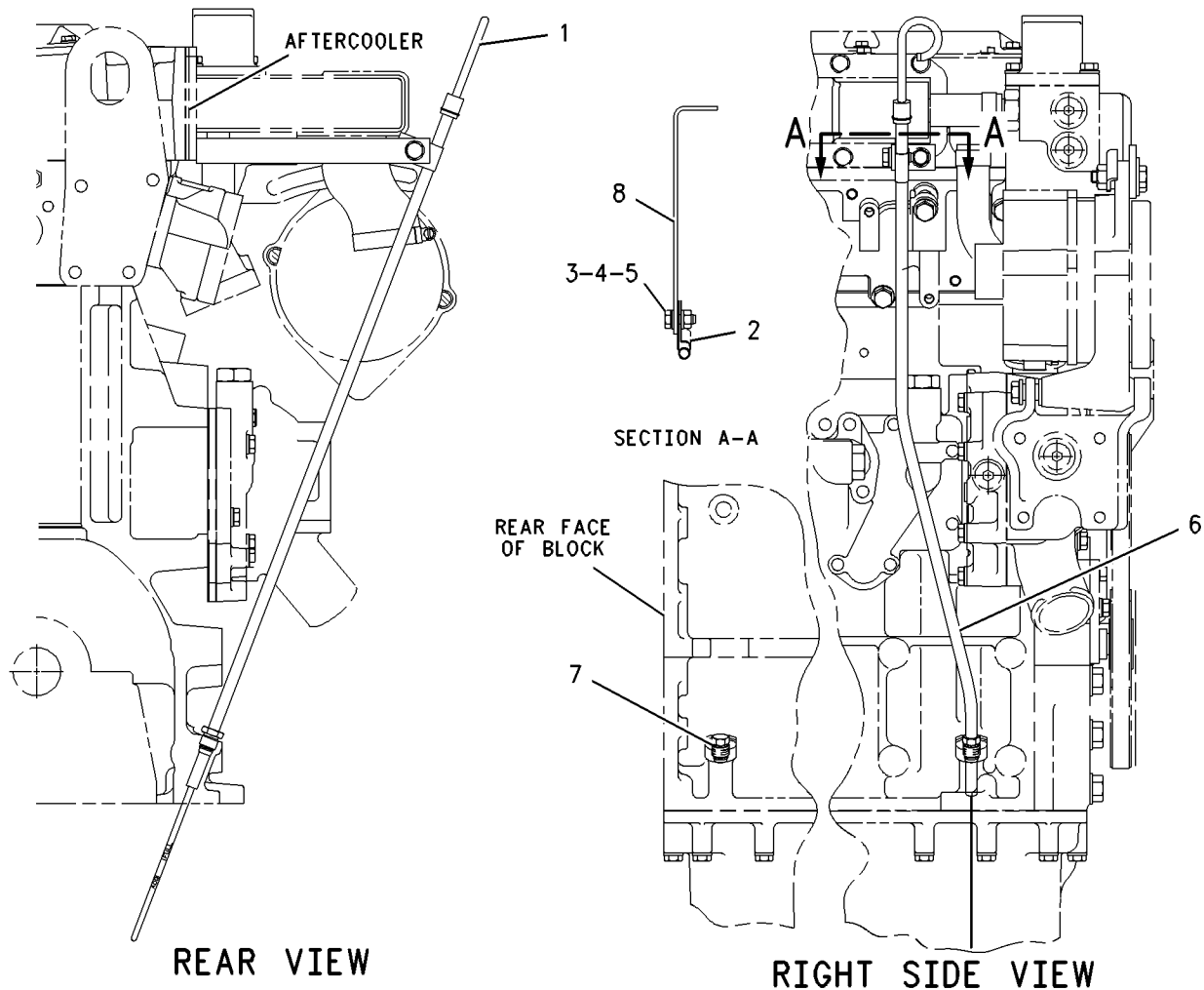
PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1326

i01531000

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	176-4179	1	GAUGE AS-OIL LEVEL						
	2	1	7M-6425	1	CLIP						
M	3	1	6V-5217	1	BOLT (M8X1.25X20MM)						
	4	1	9M-1974	2	WASHER-HARD (8.8X16X2MM THK)						
M	5	1	5P-7970	1	NUT (M8X1.25 THD)						
	6	1	134-9519	1	TUBE AS-OIL GAUGE						
	7	1	1S-2563	3	PLUG						
	8	1	134-9632	1	BRACKET						

M-METRIC PART



GRAPHIC #1

g00795239

LUBRICATION SYSTEM

7C-2475 LINES GP-ENGINE OIL

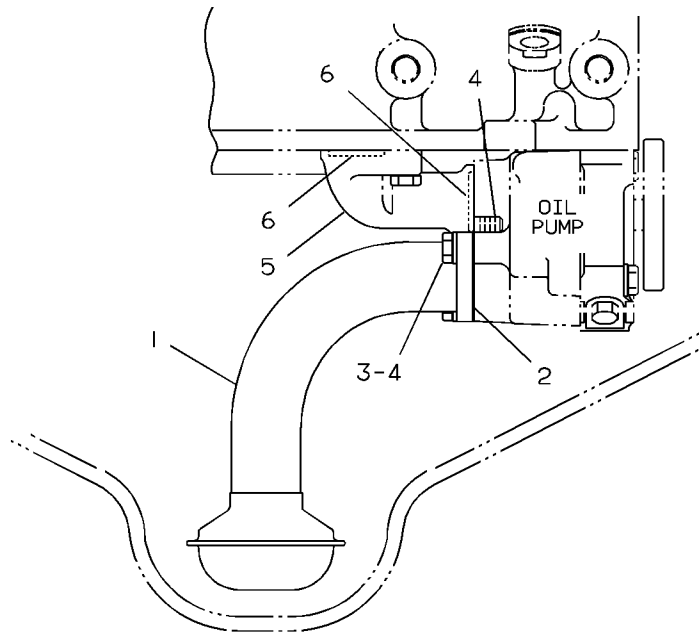
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE
FOR USE WITH 32 LITER FRONT SUMP OIL PAN

SMCS-1307

i00168464

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-5403	1	TUBE AS						
	2	1	7W-5340	1	GASKET						
	3	1	9M-1974	2	WASHER-HARD (2MM THK)						
M	4	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	5	1	4W-2232	1	ELBOW-OUTLET						
	6	1	3P-1156	2	SEAL-O-RING						
M-METRIC PART											



SIDE VIEW

GRAPHIC #1

g00116550

LUBRICATION SYSTEM

171-9114 LINES GP-OIL DRAIN

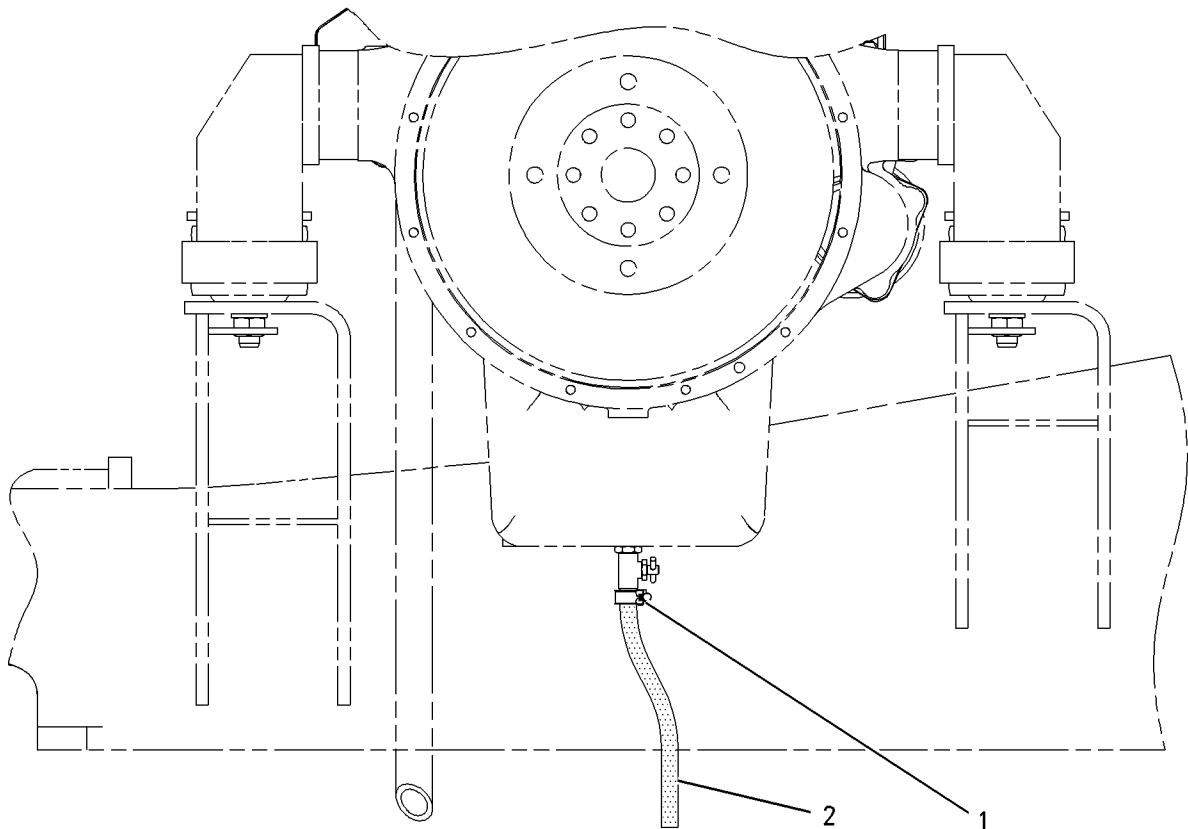
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1307

i01349642

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	095 - 1388	1	CLAMP - HOSE						
E	2	1	5P - 0743		HOSE (24CM)						
E-ORDER BY THE CENTIMETER											



REAR VIEW

GRAPHIC #1

g00712933

LUBRICATION SYSTEM

7C-2476 LINES GP-TURBOCHARGER OIL

S/N: 55K8513-UP

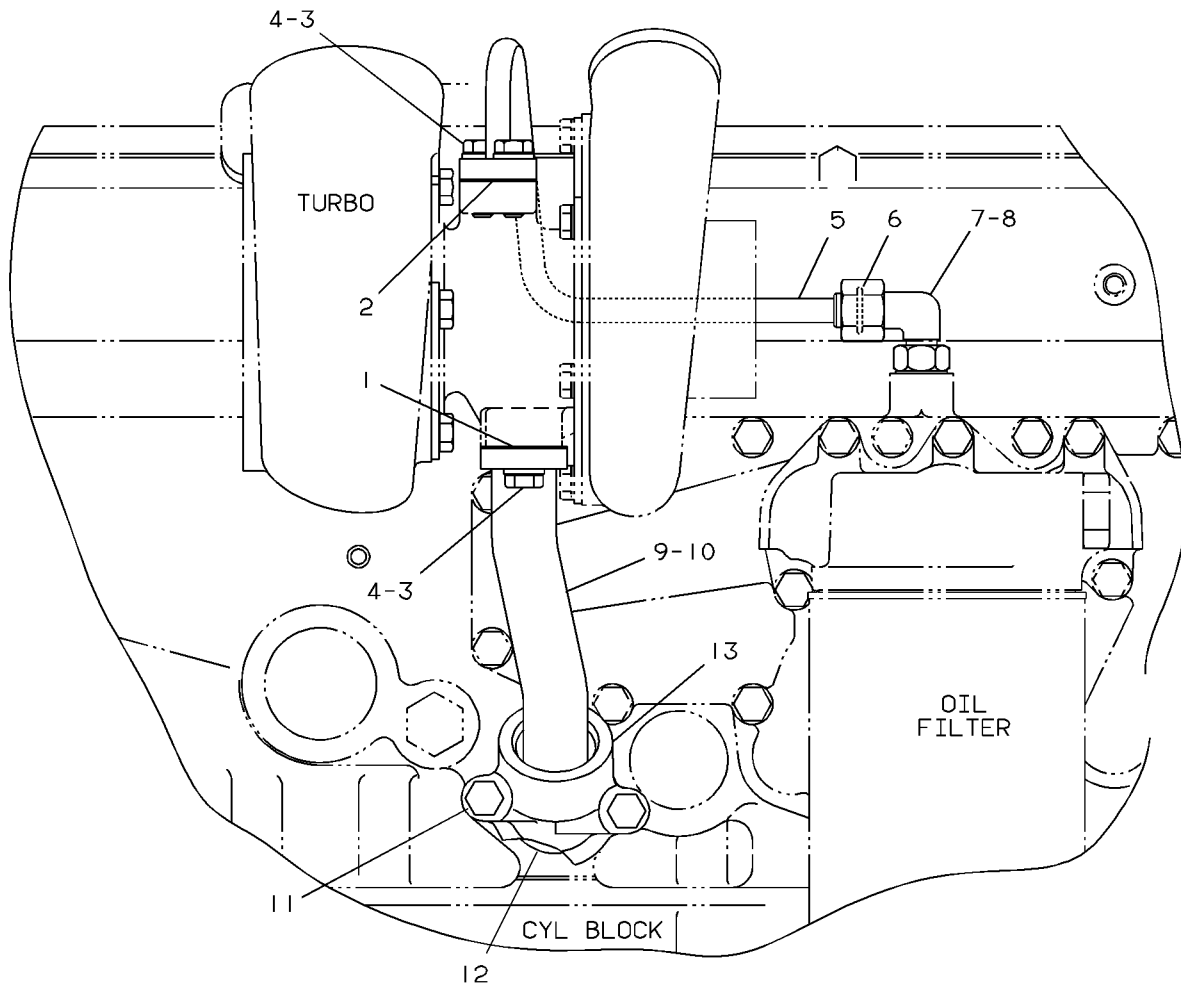
PART OF 197-8655 ENGINE AR-COMplete

SMCS-1052

i01472074

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-2398	1	GASKET						
	2	1	1S-7057	1	GASKET						
M	3	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	4	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	5	1	7E-5196	1	TUBE AS						
	6	1	6V-8397	1	SEAL-O-RING						
	7	1	6V-8724	1	ELBOW						
	8	1	3J-1907	1	SEAL-O-RING						
	9	1	7C-3760	1	TUBE AS-OIL DRAIN						
	10	1	9M-4849	1	SEAL-O-RING						
M	11	1	6V-5218	2	BOLT (M8X1.25X35MM)						
	12	1	4F-7391	1	SEAL-O-RING						
	13	1	119-2942	1	ADAPTER						

M-METRIC PART



RIGHT SIDE VIEW OF ENGINE

GRAPHIC #1

g00108331

MEMORANDA

LUBRICATION SYSTEM

171-9116 MOUNTING GP-ENGINE OIL FILTER

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1308

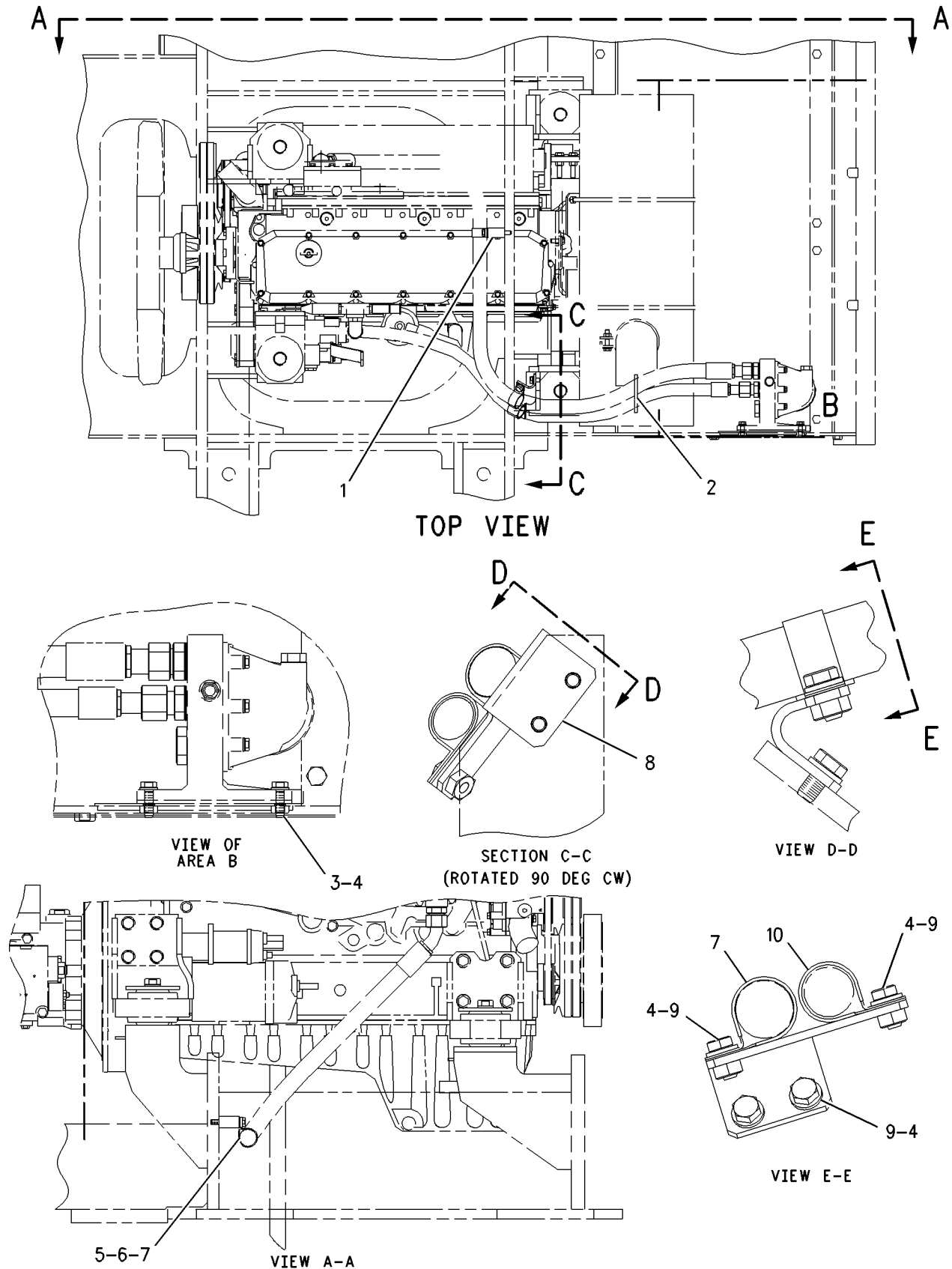
i01349407

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-7889	1	SPACER						
	2	1	7K-1181	1	STRAP-CABLE (4IN DIA)						
M	3	1	8T-4196	3	BOLT (M10X1.50X35MM)						
	4	1	8T-4121	7	WASHER-HARD (2.5MM THK)						
	5	1	7X-0507	1	WASHER-HARD (5.0MM THK)						
M	6	1	8T-5005	1	BOLT (M10X1.50X70MM)						
	7	1	7D-7233	2	CLIP						
	8	1	178-6602	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	9	1	8T-4137	4	BOLT (M10X1.50X20MM)						
	10	1	4D-7388	1	CLIP						
M-METRIC PART											

LUBRICATION SYSTEM

171-9116 MOUNTING GP-ENGINE OIL FILTER (contd.)

i01349407



GRAPHIC #1

g00712886

LUBRICATION SYSTEM

115-4123 PUMP GP-ENGINE OIL*R

S/N: 55K8513-UP

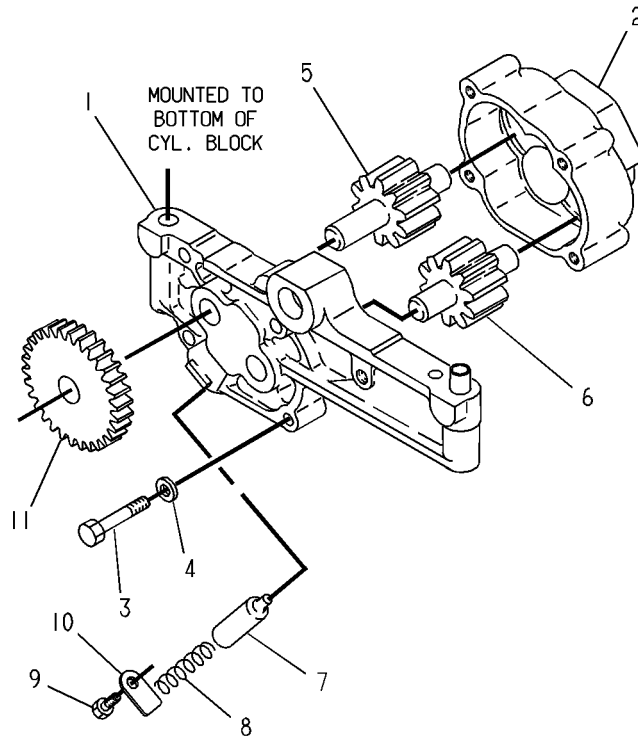
PART OF 115-4138 PUMP GP-ENGINE OIL

SMCS-1304

i01097078

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-8077	1	BODY AS-OIL PUMP						
	2	1	7E-5536	1	BODY-OIL PUMP						
M	3	1	6V-5219	4	BOLT (M8X1.25X40MM)						
	4	1	9M-1974	4	WASHER-HARD (2MM THK)						
	5	1	115-4074	1	SHAFT AS						
		1	113-6118	1	GEAR-OIL PUMP (8 TEETH)						
	6	1	115-4116	1	SHAFT AS-IDLER						
		1	113-6118	1	GEAR-OIL PUMP (8 TEETH)						
	7	1	2W-8078	1	PLUNGER-RELIEF						
	8	1	105-1805	1	SPRING						
M	9	1	6V-5215	1	BOLT (M8X1.25X16MM)						
	10	1	2W-8079	1	WASHER						
	11	1	2W-8085	1	GEAR-PUMP DRIVE (33 TEETH)						

M-METRIC PART



GRAPHIC #1

g00108299

LUBRICATION SYSTEM

115-4138 PUMP GP-ENGINE OIL

S/N: 55K8513-UP

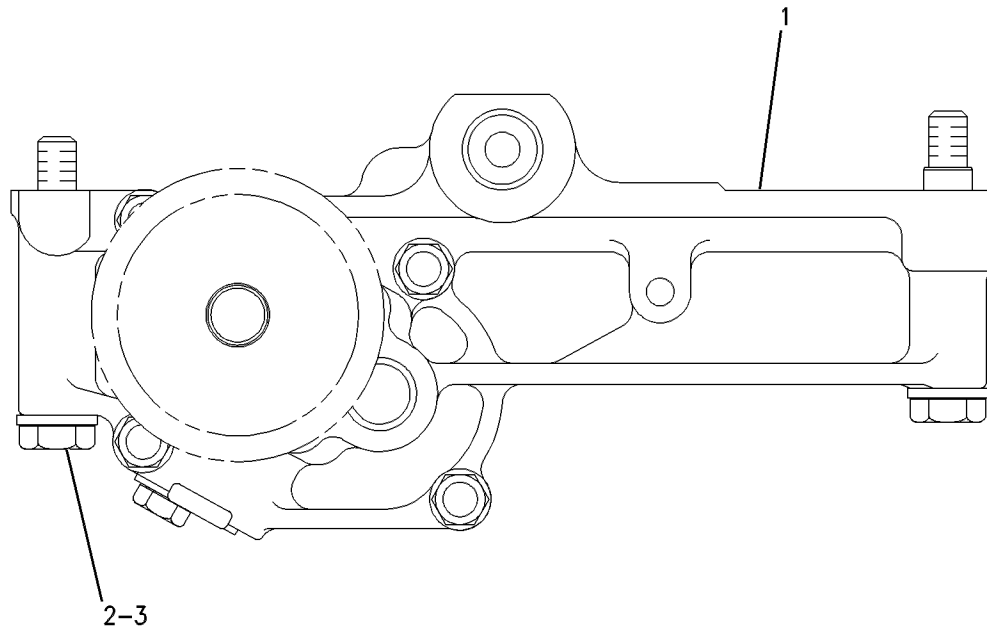
PART OF 168-8661 ENGINE AR-CORE

SMCS-1304

i01148445

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	115-4123	1	PUMP GP-ENGINE OIL						60
M	2	1	6V-5815	2	BOLT (M10X1.5X75MM)						
	3	1	6V-5839	2	WASHER (2.5MM THK)						

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00609991

COOLING SYSTEM

177-6968 COOLER GP-ENGINE OIL

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

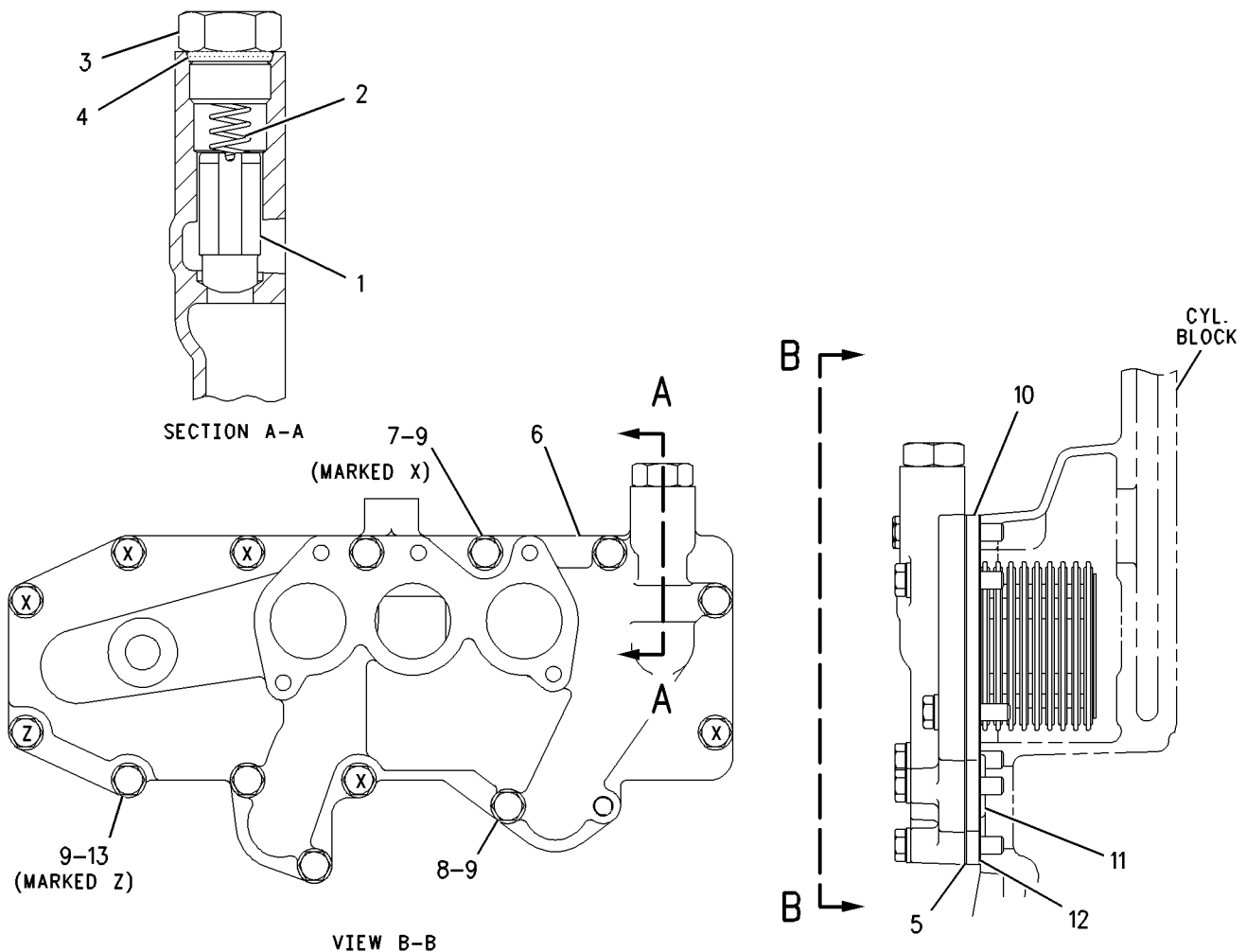
SMCS-1378

i01525974

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	7C-1493	1	VALVE-BYPASS	
	2	1	9L-9188	1	SPRING-VALVE	
M	3	1	5P-8196	1	PLUG-O-RING	
	4	1	2M-9780	1	SEAL-O-RING	
	5	1	7E-9817	1	GASKET	
	6	1	7W-9027	1	BASE-OIL COOLER	
M	7	1	6V-5218	6	BOLT (M8X1.25X35MM)	
M	8	1	8T-0276	6	BOLT (M8X1.25X45MM)	
	9	1	9M-1974	14	WASHER-HARD (8.8X16X2MM THK)	
R	10	1	187-8595	1	CORE AS	
M	11	1	8M-4445	2	SEAL-O-RING	
	12	1	7C-1160	1	GASKET	
M	13	1	6V-2317	2	BOLT (M8X1.25X30MM)	

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00709049

COOLING SYSTEM

178-6506 FAN GP-SUCTION

S/N: BPH1-UP; CAM1-UP; CBY1-UP

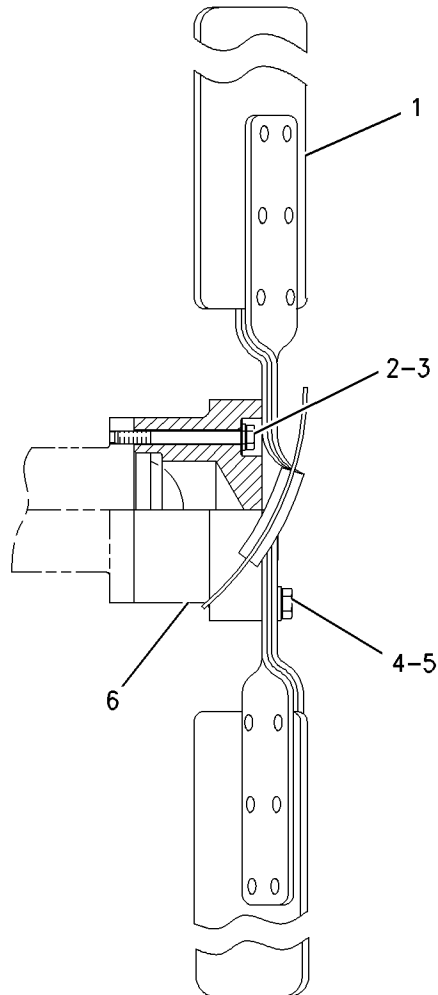
PART OF 197-8977 ENGINE AR

SMCS-1356

i01353695

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-2572	1	SPIDER AS-FAN						
M	2	1	8T-3647	6	BOLT (M8X1.25X80MM)						
	3	1	8T-4224	6	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	8T-4195	6	BOLT (M10X1.50X30MM)						
	5	1	8T-4121	6	WASHER-HARD (2.5MM THK)						
	6	1	178-6610	1	SPACER-FAN						

M-METRIC PART



GRAPHIC #1

g00714366

COOLING SYSTEM

183-2858 LINES GP-WATER

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1355

i01541379

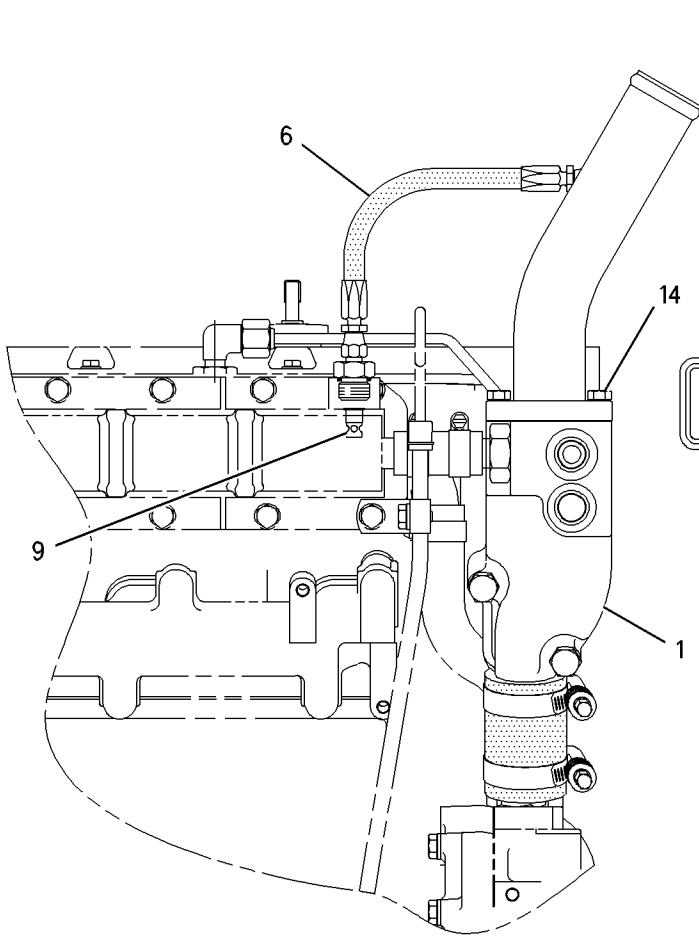
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-0447	1	HOUSING-WATER REGULATING						
	2	1	2W-7212	1	GASKET-REGULATOR HOUSING						
	3	1	126-5869	1	REGULATOR-WATER TEMPERATURE						
	4	1	195-7339	1	GASKET						
	5	1	2N-1287	1	ELBOW-FLARED (90 DEG - 37 DEG FLARE)						
I	6	1	9L-5311	1	HOSE AS-END						
	7	1	030-8193	1	CONNECTOR-FLARED						
	8	1	147-1072	1	TUBE AS						
	9	1	8N-4485	1	VALVE AS-VENT						
	10	1	3J-1907	2	SEAL-O-RING						
	11	1	3K-0360	1	SEAL-O-RING						
M	12	1	6V-5230	2	BOLT (M10X1.5X60MM)						
	13	1	9S-8004	1	PLUG						
M	14	1	6V-3940	2	BOLT (M8X1.25X25MM)						
E	15	1	5P-0763		HOSE (38.1MM ID) (7.62CM)						
	16	1	8T-4983	2	CLAMP-HOSE						
	17	1	6V-0852	1	CAP-DUST						
	18	1	8C-6712	1	ELBOW						
	19	1	3J-7354	1	SEAL-O-RING						
	20	1	154-9023	1	VALVE-SAMPLING						

E-ORDER BY THE CENTIMETER
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART

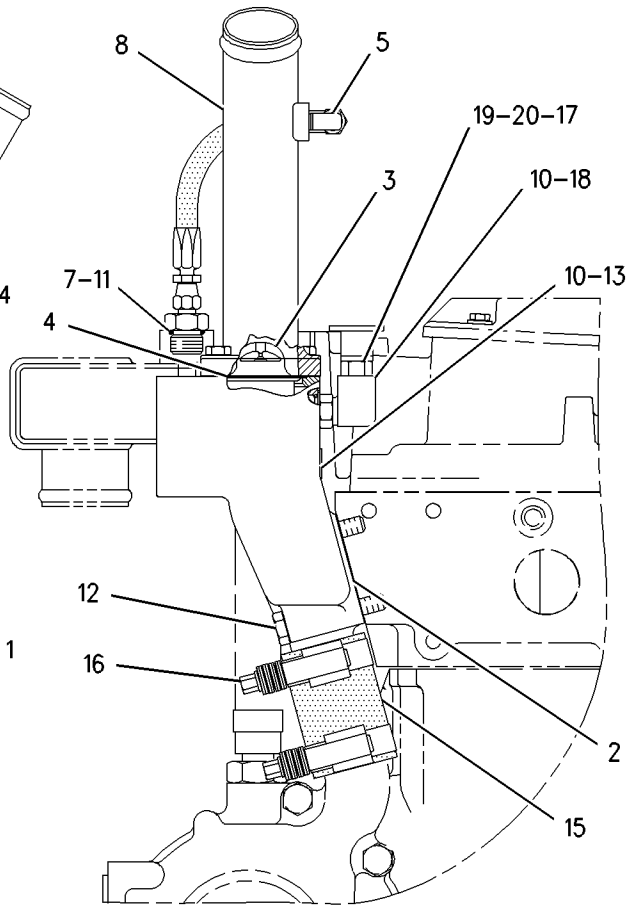
COOLING SYSTEM

183-2858 LINES GP-WATER (contd.)

i01541379



RIGHT SIDE VIEW



FRONT VIEW

GRAPHIC #1

g00802510

COOLING SYSTEM

123-8388 PUMP GP-WATER

S/N: 55K8513-UP

PETERBUILT

PART OF 197-8655 ENGINE AR-COMPLETE

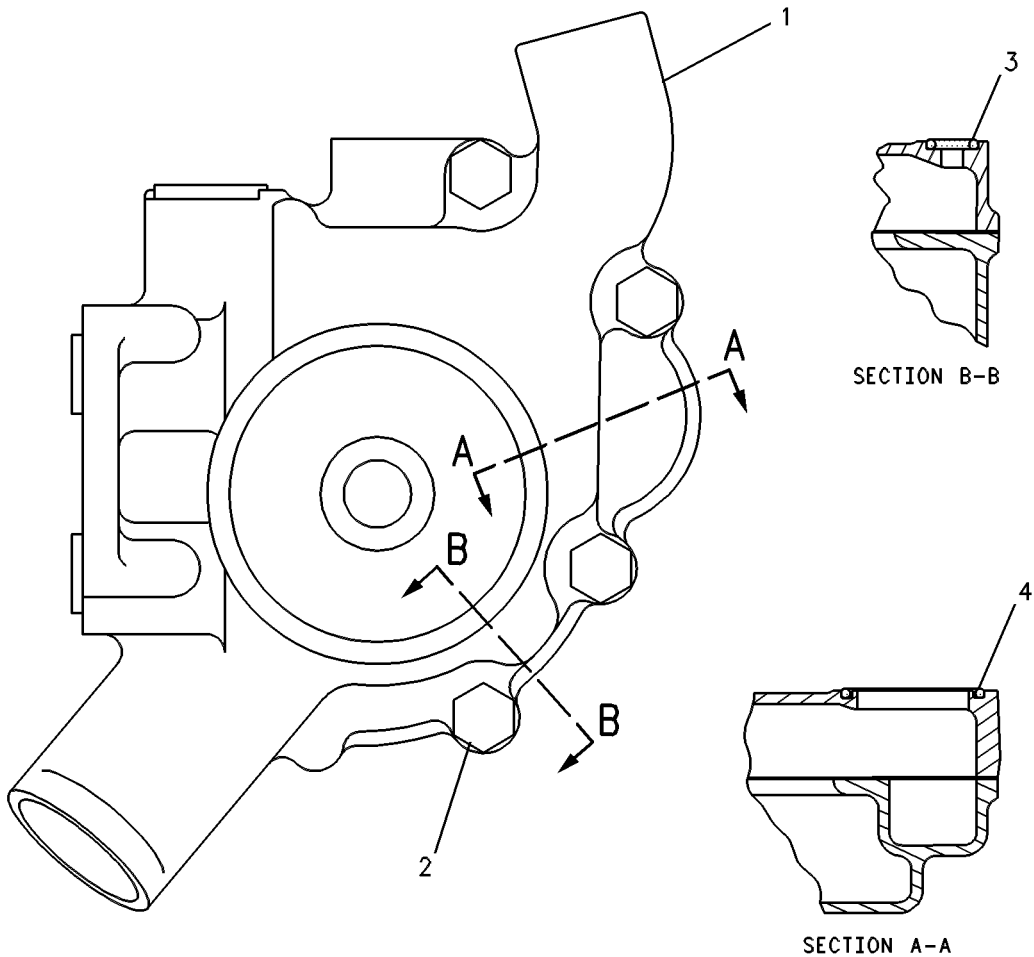
SMCS-1361

i01198322

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	123-8393	1	PUMP GP-WATER						68
M	2	1	8T-0644	4	BOLT (M10X1.50X90MM)						
	3	1	2M-4453	1	SEAL-O-RING (12.29MM ID)						
	4	1	7F-8267	1	SEAL-O-RING (47.2MM ID)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00248226

MEMORANDA

COOLING SYSTEM

123-8393 PUMP GP-WATER

S/N: 55K8513-UP

PETERBUILT

PART OF 123-8388 PUMP GP-WATER

SMCS-1361

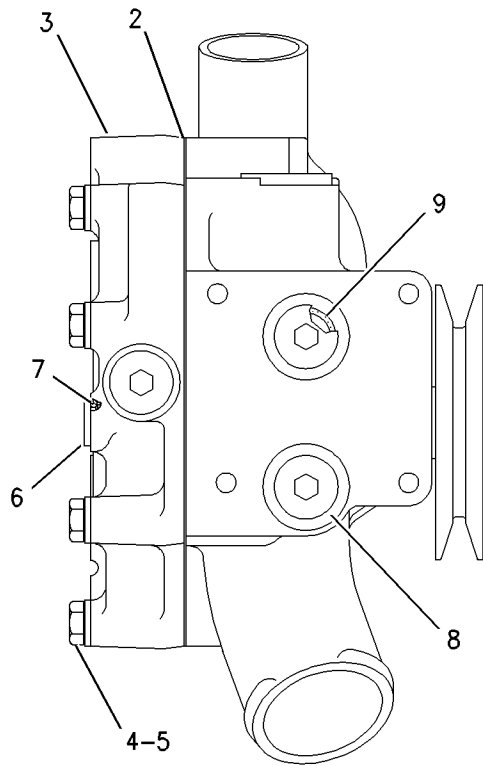
i01339588

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	159-3141	1	PUMP AS-WATER						
	1A	1	4P-3681	1	HOUSING-PUMP						
	1B	1	7W-3780	1	PULLEY						
	1C	1	4W-0250	1	SHAFT AS						
	1D	1	147-5088	1	SEAL AS-WATER PUMP						
	1E	1	152-3952	1	IMPELLER-PUMP						
	1F	1	119-3025	1	FILTER-WATER						
	2	1	4W-7592	1	GASKET						
	3	1	4W-0253	1	COVER						
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)						
	5	1	9M-1974	4	WASHER-HARD (2MM THK)						
	6	1	9S-8003	1	PLUG-O-RING (1/2-20 THD)						
	7	1	1J-9671	1	SEAL-O-RING (10.52MM ID)						
	8	1	9S-8005	3	PLUG-O-RING (3/4-16 THD)						
	9	1	3K-0360	3	SEAL-O-RING (16.36MM ID)						
	10	1	9S-8008	1	PLUG-O-RING (1 1/16-12 THD)						
	11	1	3D-2824	1	SEAL-O-RING (23.47MM ID)						
M-METRIC PART											

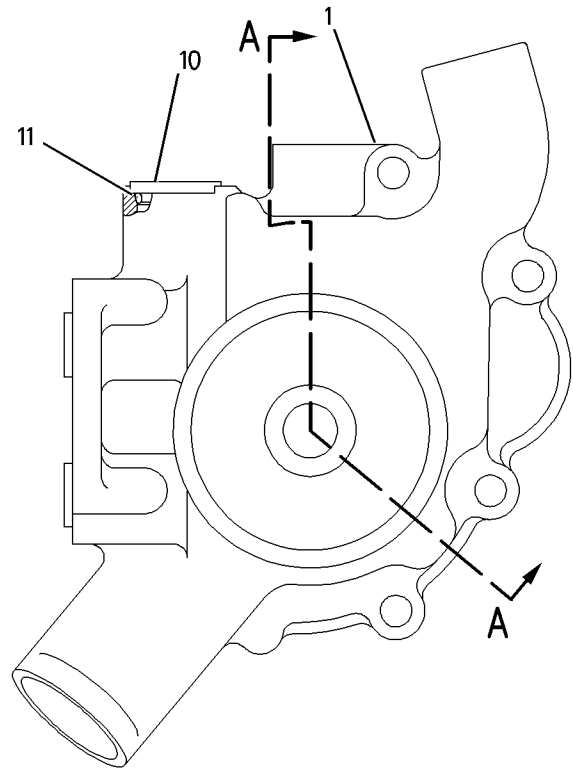
COOLING SYSTEM

123-8393 PUMP GP-WATER (contd.)

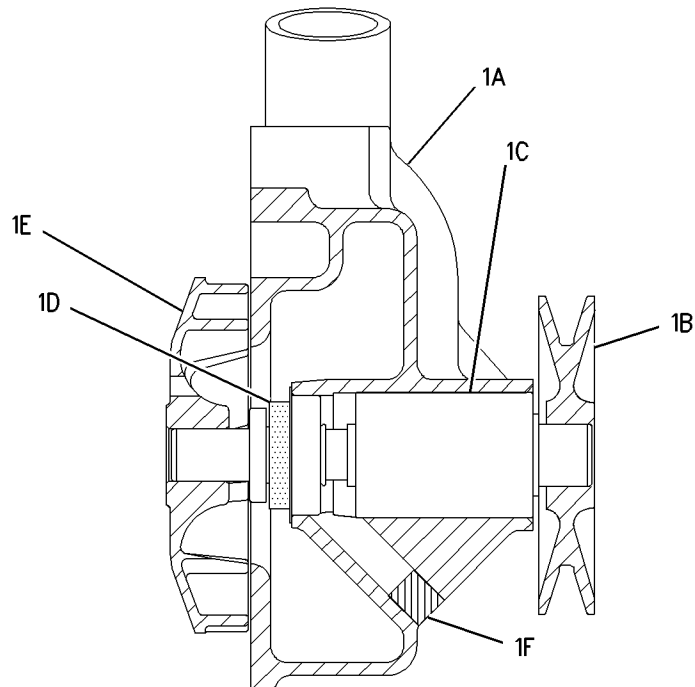
i01339588



RIGHT SIDE VIEW



FRONT VIEW



SECTION A-A

GRAPHIC #1

g00708236

COOLING SYSTEM

171-9109 RADIATOR & HYD OIL COOLER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1353, 1374

i01529929

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	178-6614	1	HOSE-UPPER	
	2	1	8T-6703	4	CLAMP-HOSE	
Y	3	1	196-8073	1	RADIATOR & HYD OIL COOLER GP	74
	4	1	096-4035	1	CLIP	
E	5	1	7Y-1976		HOSE-WATER (70.0MM ID) (40 CM)	
	6	1	178-6615	1	HOSE-LOWER	
	8	1	8T-4223	2	WASHER-HARD (13.5X25.5X3MM THK)	
M	9	1	8T-4956	2	BOLT (M12X1.75X35MM)	
M	10	1	8T-4244	1	NUT (M12X1.75 THD)	
	11	2	096-0061	4	STRAP-CABLE	
	12	2	7I-7753	1	BRACE	
	13	2	096-0744	1	TANK AS-RESERVE	
		2	171-3369	1	CAP AS	
	14	2	171-9077	1	BAND	
	15	2	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)	
M	16	2	8T-4200	2	BOLT (M8X1.25X16MM)	
	17	2	178-6611	1	GUARD AS-UPPER	
M	18	2	8T-4137	14	BOLT (M10X1.5X20MM)	
	19	2	7X-7729	11	WASHER (11X25X3MM THK)	
	20	2	178-6612	1	GUARD AS-LOWER	
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	21	2	3P-9847	1	CLIP	
	22	2	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)	
	23	2	178-6613	1	GUARD AS-LOWER	
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)	
M	24	1	7X-2554	4	BOLT (M16X2X70MM)	
	25	1	178-6450	4	SPACER	
D	26	1	5P-9909		SEAL (0.72M)	
	27	2	204-0880	1	HANDLE AS	

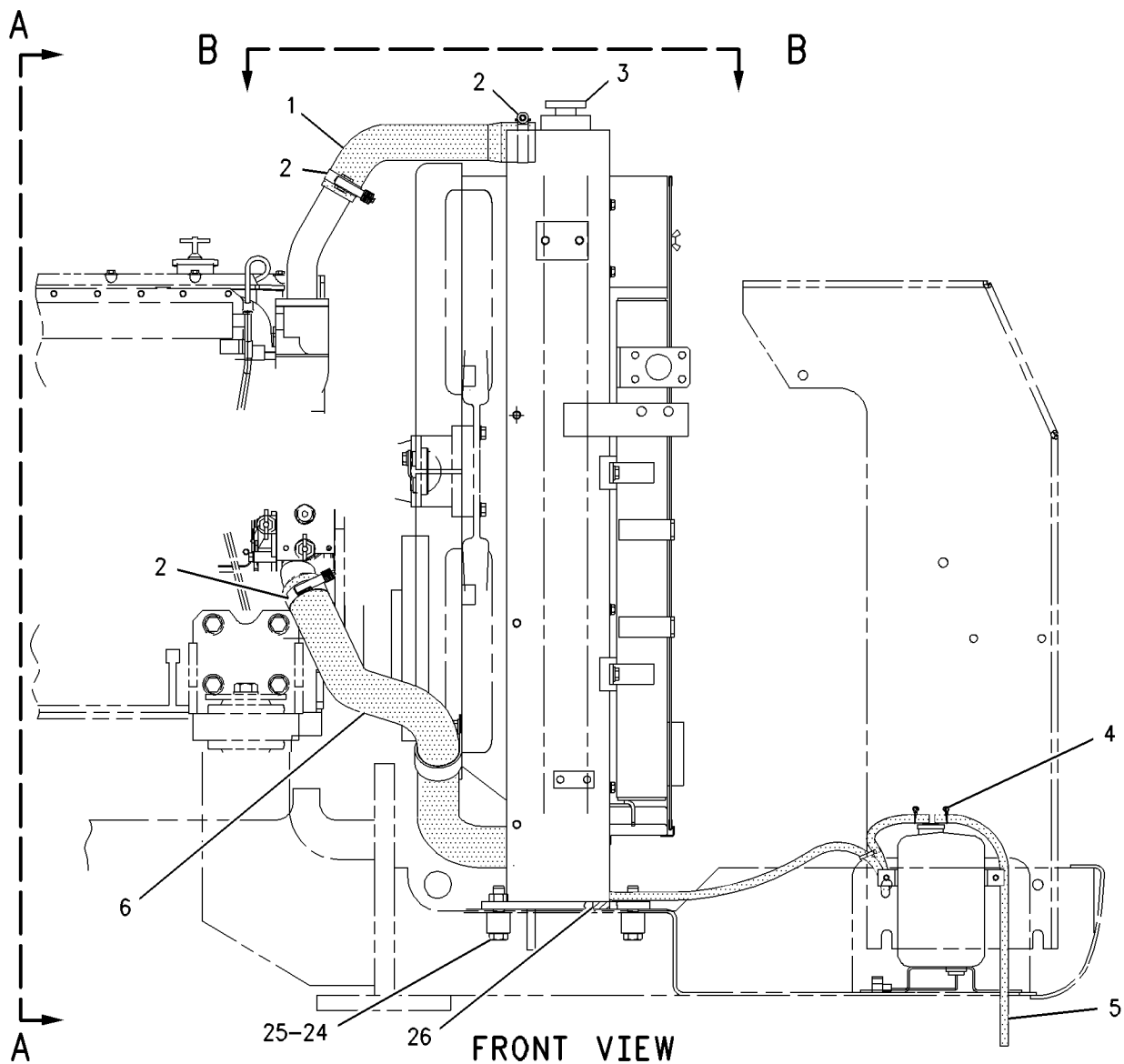
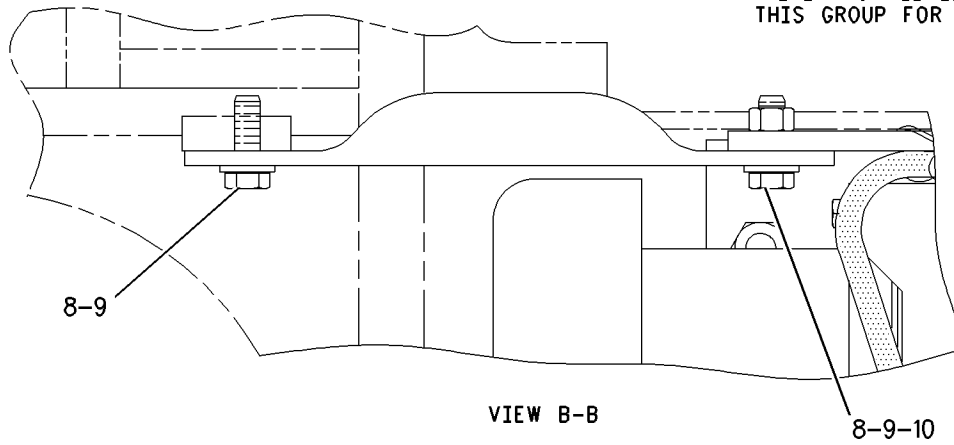
D-ORDER BY THE METER
E-ORDER BY THE CENTIMETER
M-METRIC PART
Y-SEPARATE ILLUSTRATION

COOLING SYSTEM

171-9109 RADIATOR & HYD OIL COOLER GP (contd.)

i01529929

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



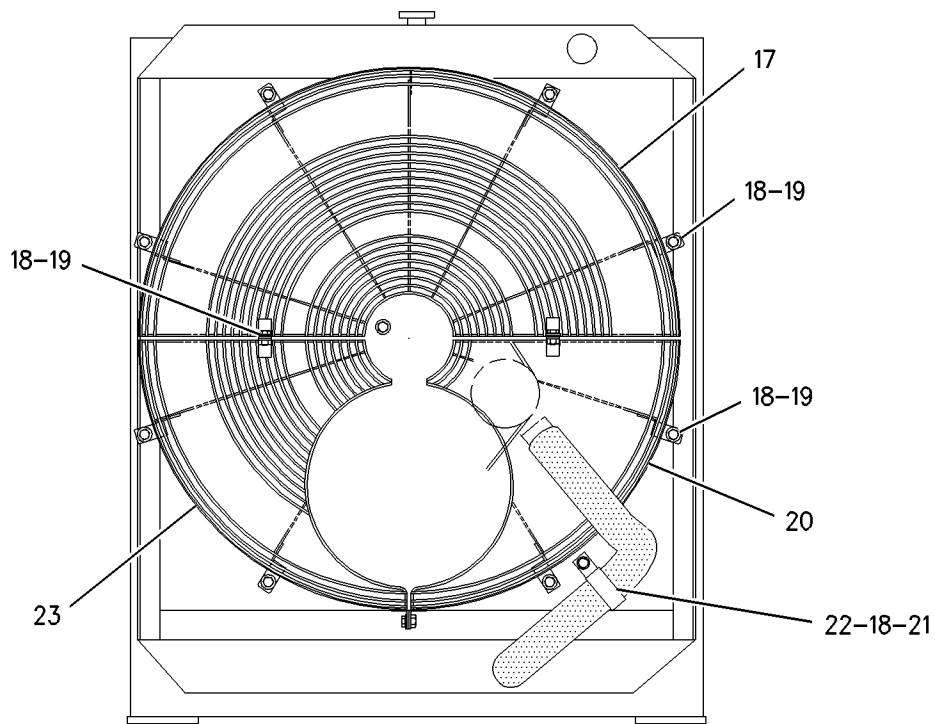
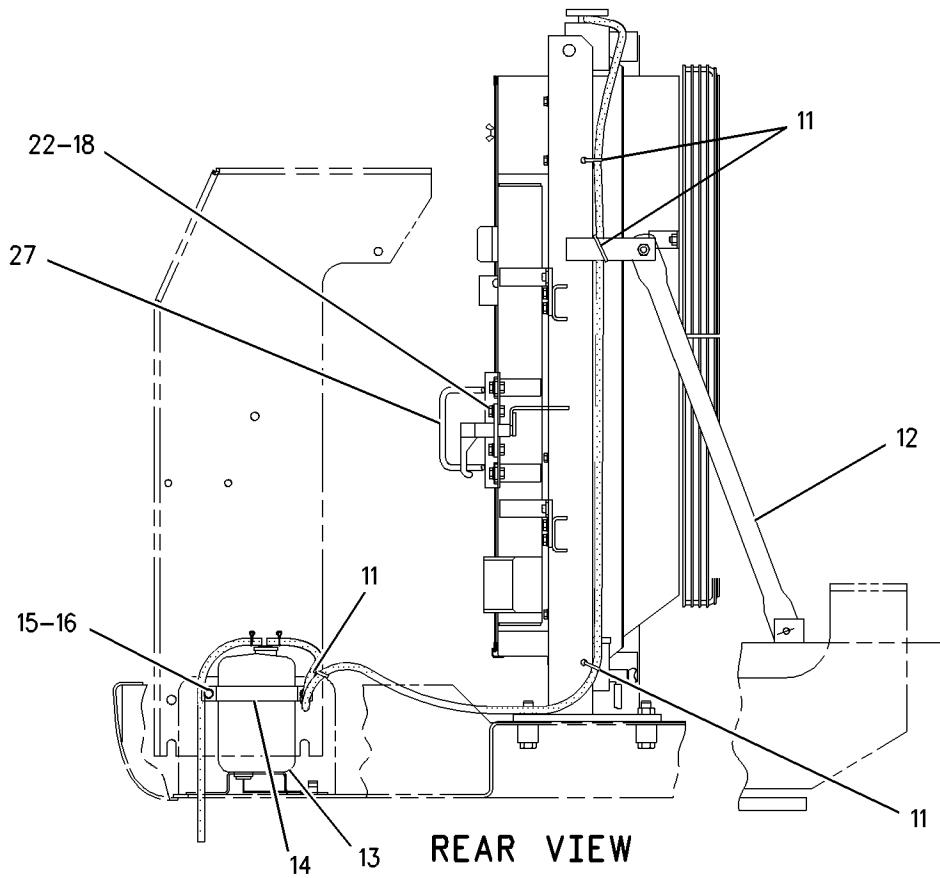
GRAPHIC #1

g00713309

COOLING SYSTEM

171-9109 RADIATOR & HYD OIL COOLER GP (contd.)

i01529929



VIEW A-A

GRAPHIC #2

g00795483

MEMORANDA

COOLING SYSTEM

196-8073 RADIATOR & HYD OIL COOLER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9109 RADIATOR & HYD OIL COOLER GP

SMCS-1353, 1374

i01515797

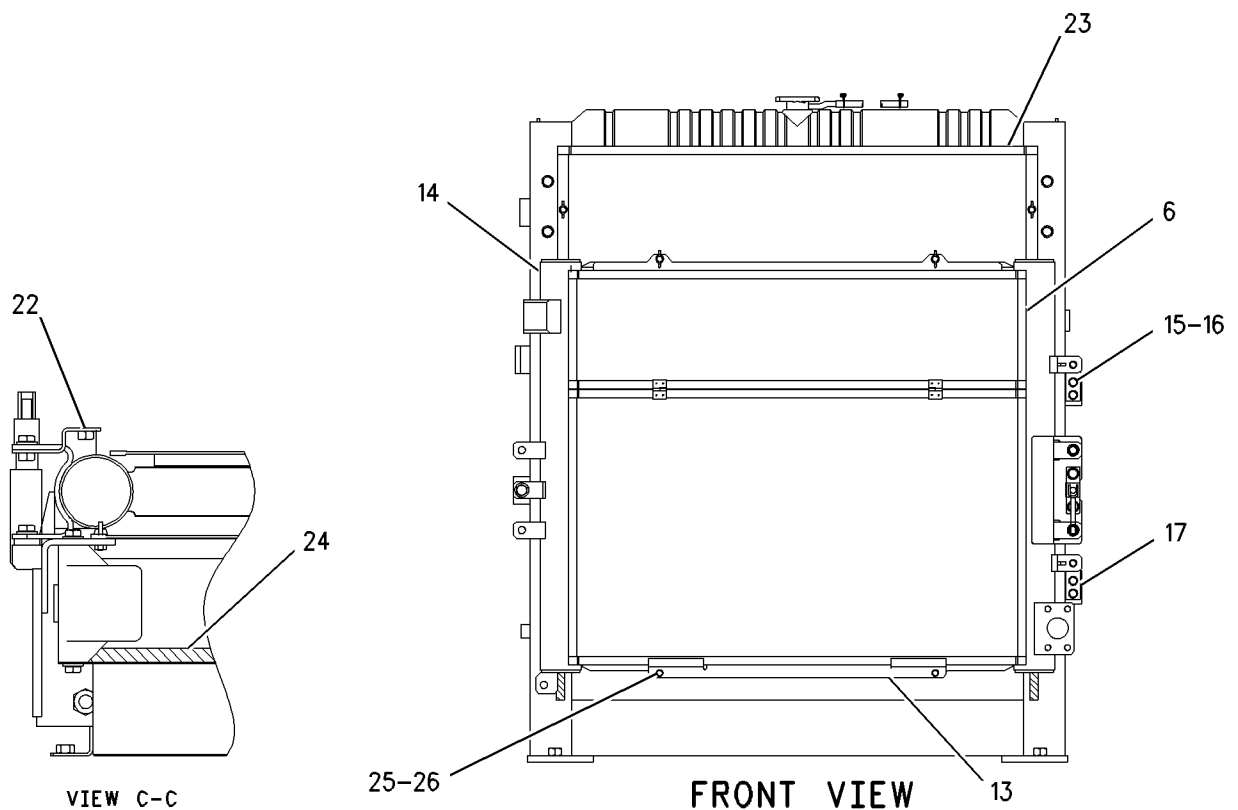
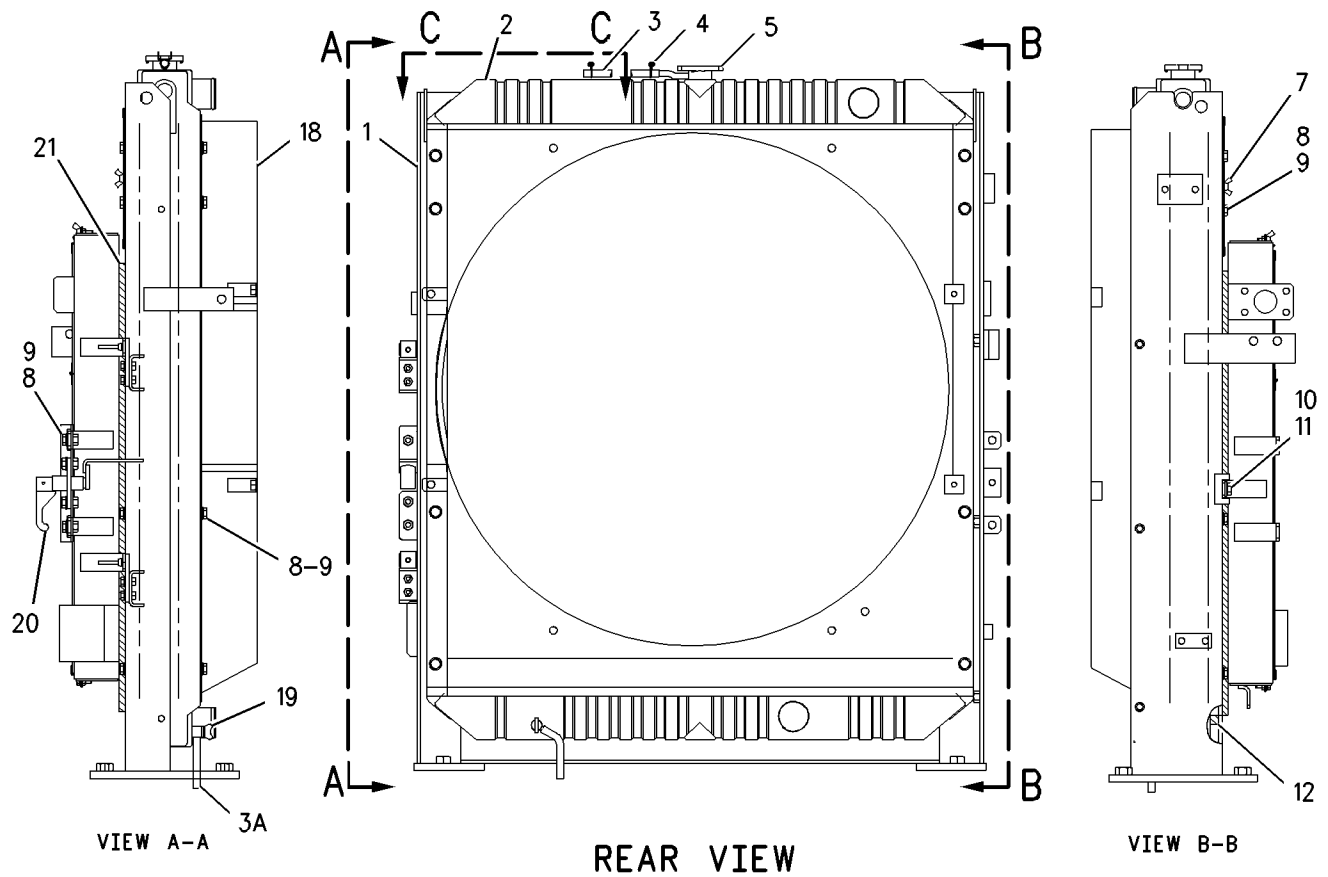
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-8204	1	FRAME AS						
	2	1	193-2802	1	CORE AS-RADIATOR						
E	3	1	7Y-1976		HOSE-WATER (70.0MM ID) (240CM)						
E	3A	1	7Y-1976		HOSE-WATER (70.0MM ID) (15CM)						
	4	1	096-4035	2	CLIP						
	5	1	184-3949	1	CAP AS-RADIATOR						
	6	1	196-8078	1	SCREEN AS						
M	7	1	096-4034	4	BOLT-WING						
M	8	1	8T-4137	20	BOLT (M10X1.5X20MM)						
	9	1	8T-4121	20	WASHER-HARD (11X21X2.5MM THK)						
M	10	1	8T-4179	1	BOLT (M12X1.75X20MM)						
	11	1	8T-4223	1	WASHER-HARD (13.5X25.5X3MM THK)						
	12	1	193-2812	1	SEAL						
	13	1	196-8080	1	PLATE						
	14	1	196-8076	1	CORE AS-OIL COOLER						
M	15	1	8T-4189	4	BOLT (M8X1.25X20MM)						
	16	1	5P-4116	4	WASHER-HARD (8.8X20.5X2MM THK)						
	17	1	193-2765	2	SUPPORT AS						
	18	1	193-2805	1	SHROUD AS						
M	19	1	093-5432	1	VALVE AS-DRAIN						
	20	1	193-2764	1	HANDLE AS						
	21	1	183-8112	2	SEAL						
	22	1	201-3757	1	SUPPORT AS						
	23	1	196-8079	1	SCREEN AS						
	24	1	193-2809	2	SEAL						
M	25	1	8T-4138	2	BOLT (M6X1X20MM)						
	26	1	9X-8256	2	WASHER (6.6X12X2MM THK)						

E-ORDER BY THE CENTIMETER
M-METRIC PART

COOLING SYSTEM

196-8073 RADIATOR & HYD OIL COOLER GP (contd.)

i01515797



GRAPHIC #1

g00764496

AIR INLET AND EXHAUST SYSTEM

134-2357 AFTERCOOLER GP-TREATED WATER

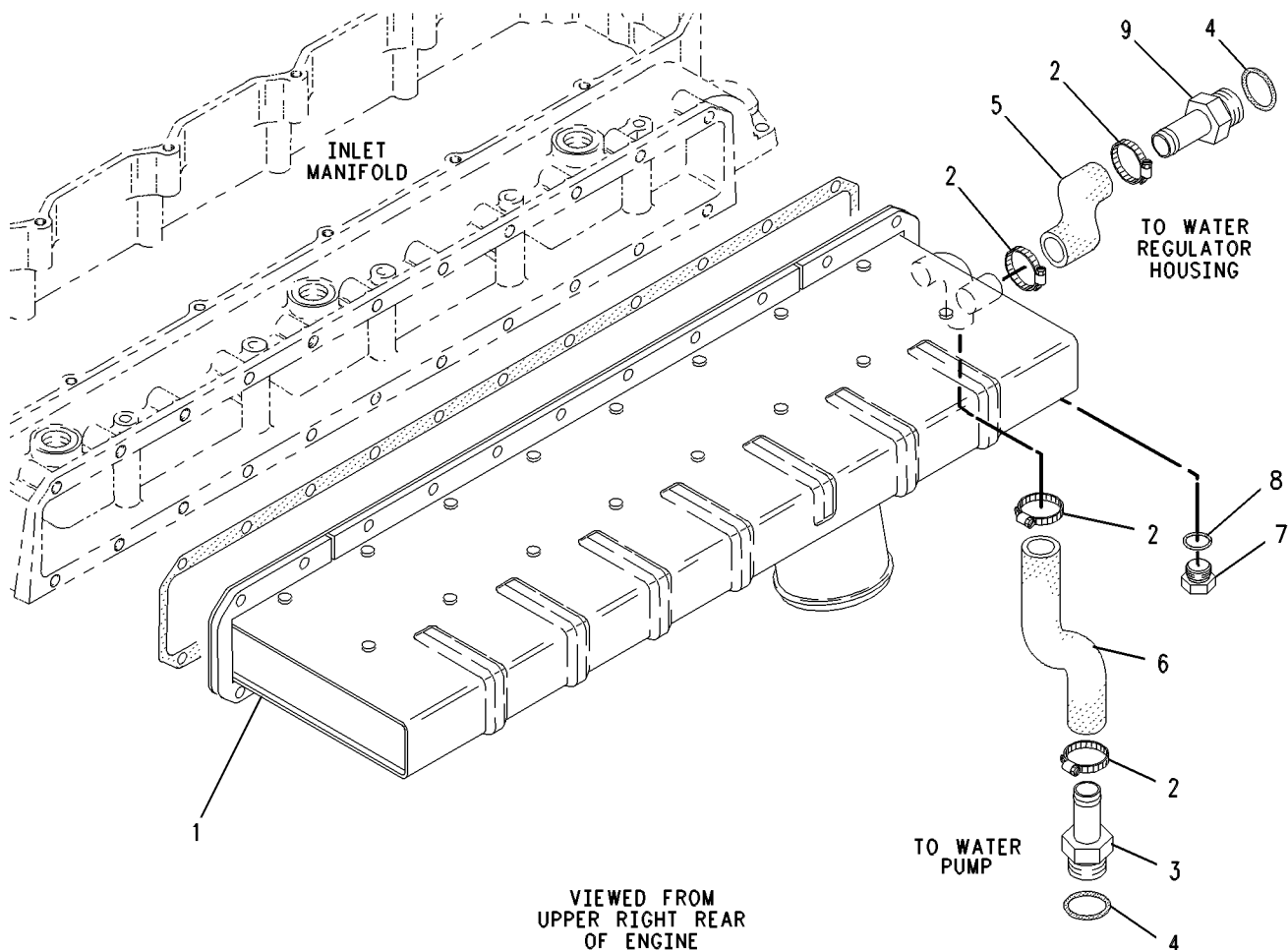
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMplete

SMCS-1063

i00617696

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-1221	1	CORE AS						
	2	1	8T-9402	4	CLAMP-HOSE						
	3	1	033-6783	1	NIPPLE-HOSE						
	4	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						
	5	1	108-5746	1	HOSE						
	6	1	7C-3615	1	HOSE						
	7	1	9S-4182	1	PLUG (7/16-20 THD)						
	8	1	3J-7354	1	SEAL-O-RING (8.92MM ID)						
	9	1	3E-4075	1	NIPPLE						



GRAPHIC #1

g00258954

AIR INLET AND EXHAUST SYSTEM

162-6201 AIR CLEANER GP

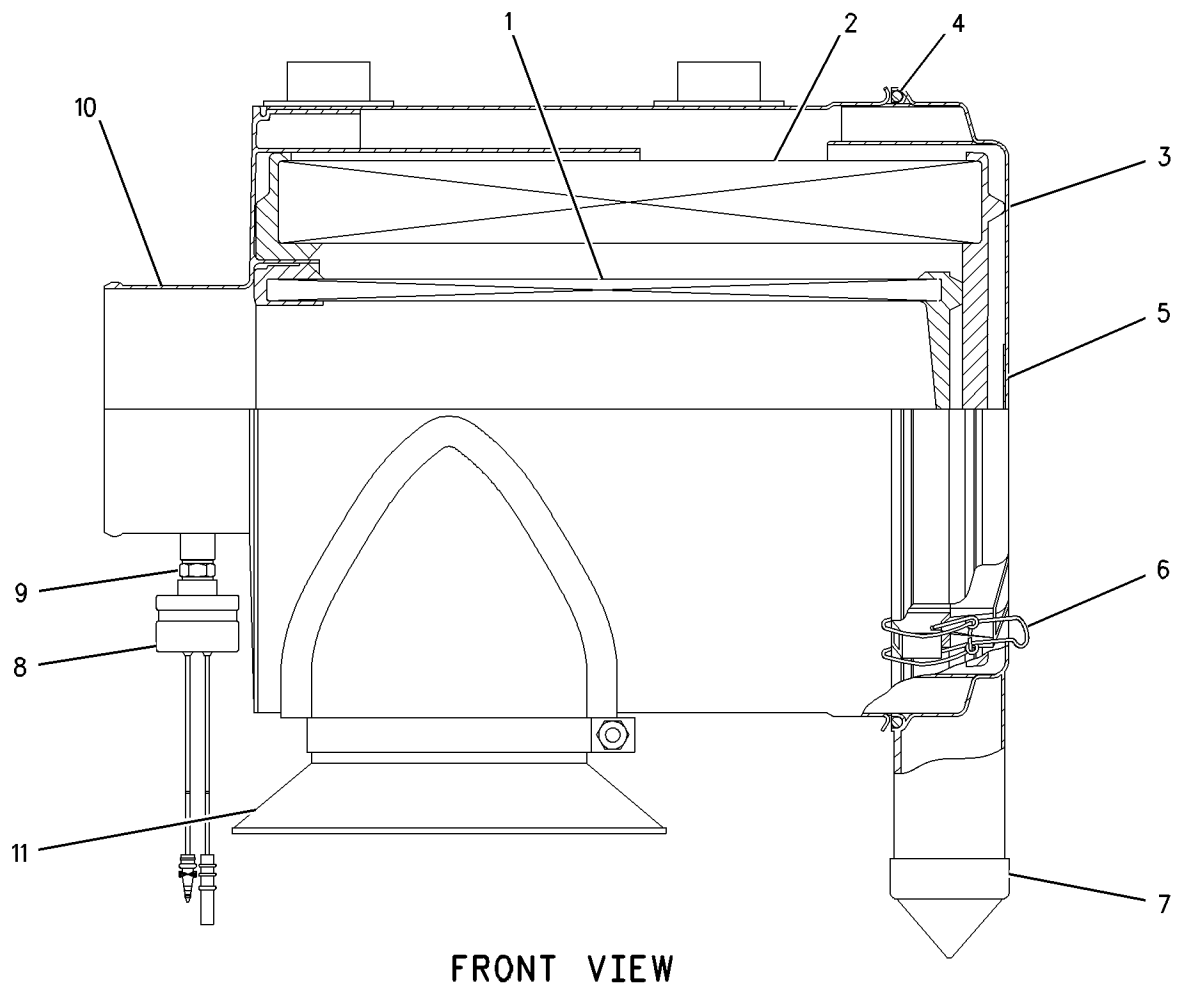
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 162-6232 MOUNTING GP-AIR CLEANER

SMCS-1051

i01405987

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-8821	1	FILTER AS-SECONDARY						
	2	1	131-8822	1	FILTER AS-PRIMARY						
	3	1	184-3983	1	COVER AS						
J	4	1	168-0792	1	SEAL (280.1MM ID X 5.0MM TH)						
					-OR-						
J		1	131-8824	1	SEAL (266.7MM ID X 6.9MM TH)						
	5	1	131-8826	1	FILM-CAT (TOP)						
	6	1	131-8932	1	LATCH						
	7	1	131-8901	1	VALVE-VACUATOR						
	8	1	154-0498	1	INDICATOR AS						
	9	1	5L-3233	1	FITTING						
	10	1	183-8169	1	BODY AS						
	11	1	183-8170	1	HOOD AS						

J-ENSURE CORRECT SEAL IS FITTED



FRONT VIEW

GRAPHIC #1

g00740096

AIR INLET AND EXHAUST SYSTEM

133-5048 LINES GP-AIR

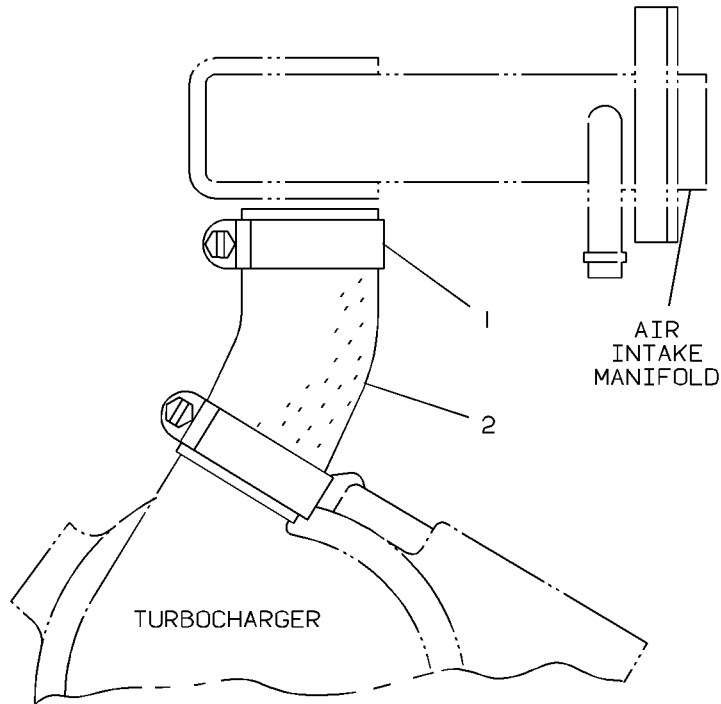
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1058

i00159594

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6703	2	CLAMP-HOSE						
	2	1	7C-2873	1	HOSE						



GRAPHIC #1

g00116835

AIR INLET AND EXHAUST SYSTEM

183-8216 LINES GP-AIR

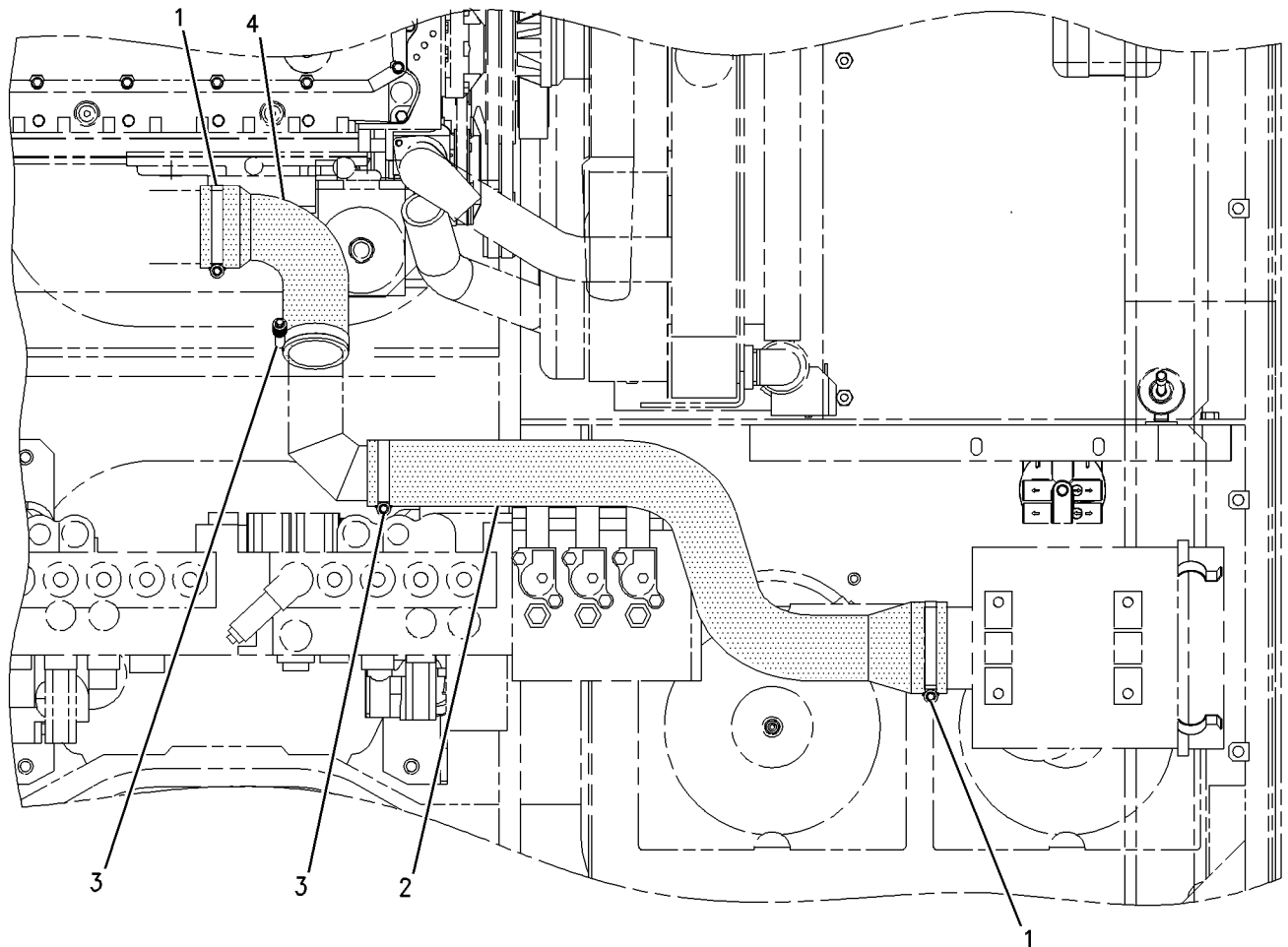
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1058

i01349630

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4986	2	CLAMP-HOSE						
	2	1	190-5812	1	HOSE-AIR						
	3	1	8T-4985	2	CLAMP-HOSE						
	4	1	178-6607	1	HOSE-AIR						



TOP VIEW

GRAPHIC #1

g00712951

AIR INLET AND EXHAUST SYSTEM

178-6449 LINES GP-MUFFLER DRAIN

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9106 INSTALLATION AR-ENGINE

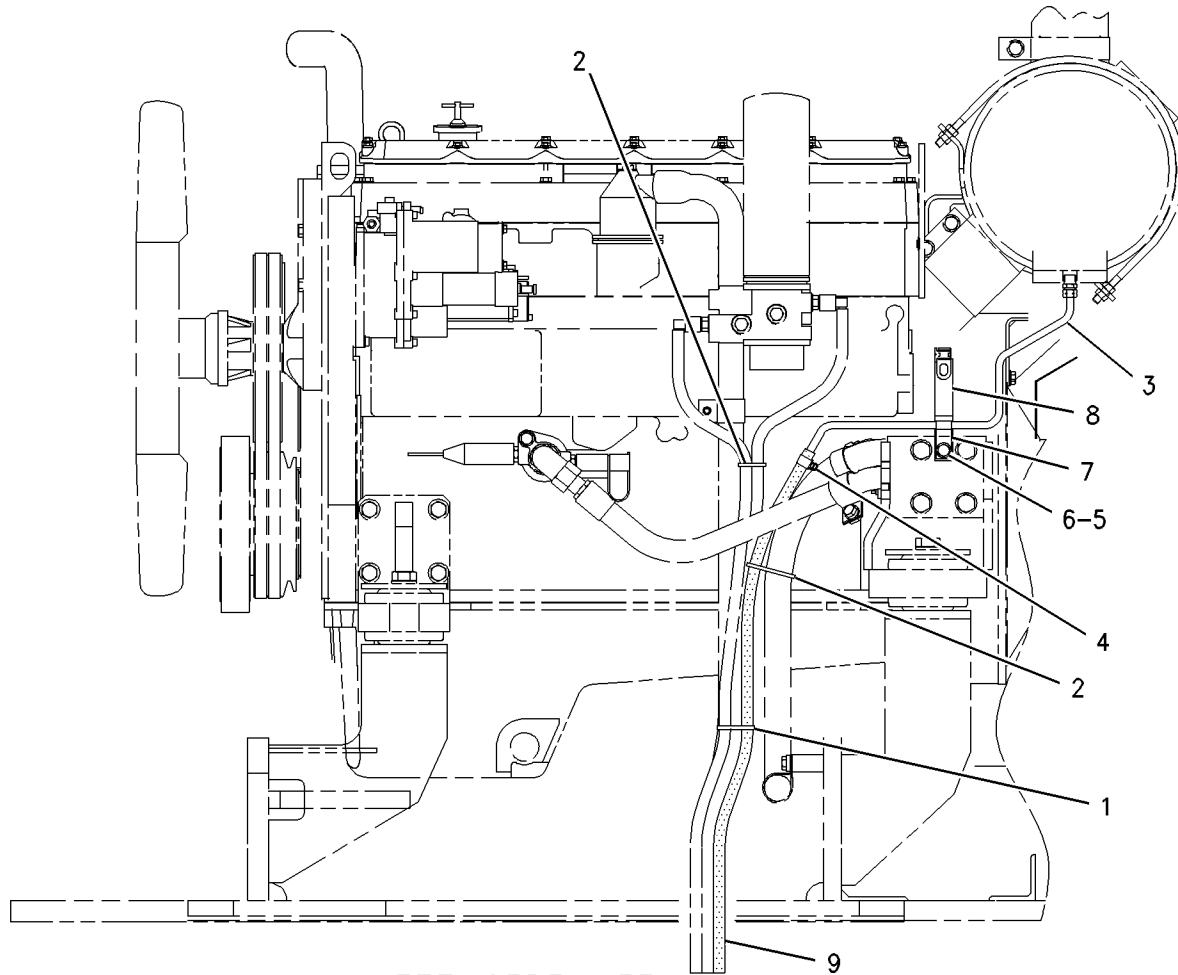
SMCS-1062

i01349930

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7K-1181	1	STRAP-CABLE (4IN DIA)						
	2	1	096-0061	2	STRAP-CABLE						
	3	1	178-6625	1	PIPE AS						
	4	1	5P-4961	1	CLAMP-HOSE (11-20 MM DIA.)						
M	5	1	8T-4136	1	BOLT (M10X1.50X25MM)						
	6	1	8T-4121	1	WASHER-HARD (2.5MM THK)						
	7	1	171-9073	1	CLIP						
	8	1	178-6626	1	SUPPORT AS						
		1	116-0118	1	CLIP (10.5MMX17.0MM ID)						
E	9	1	5P-1442		HOSE (78 CM)						

E-ORDER BY THE CENTIMETER

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00715258

AIR INLET AND EXHAUST SYSTEM

6I-2298 MANIFOLD GP-EXHAUST

S/N: 55K8513-UP

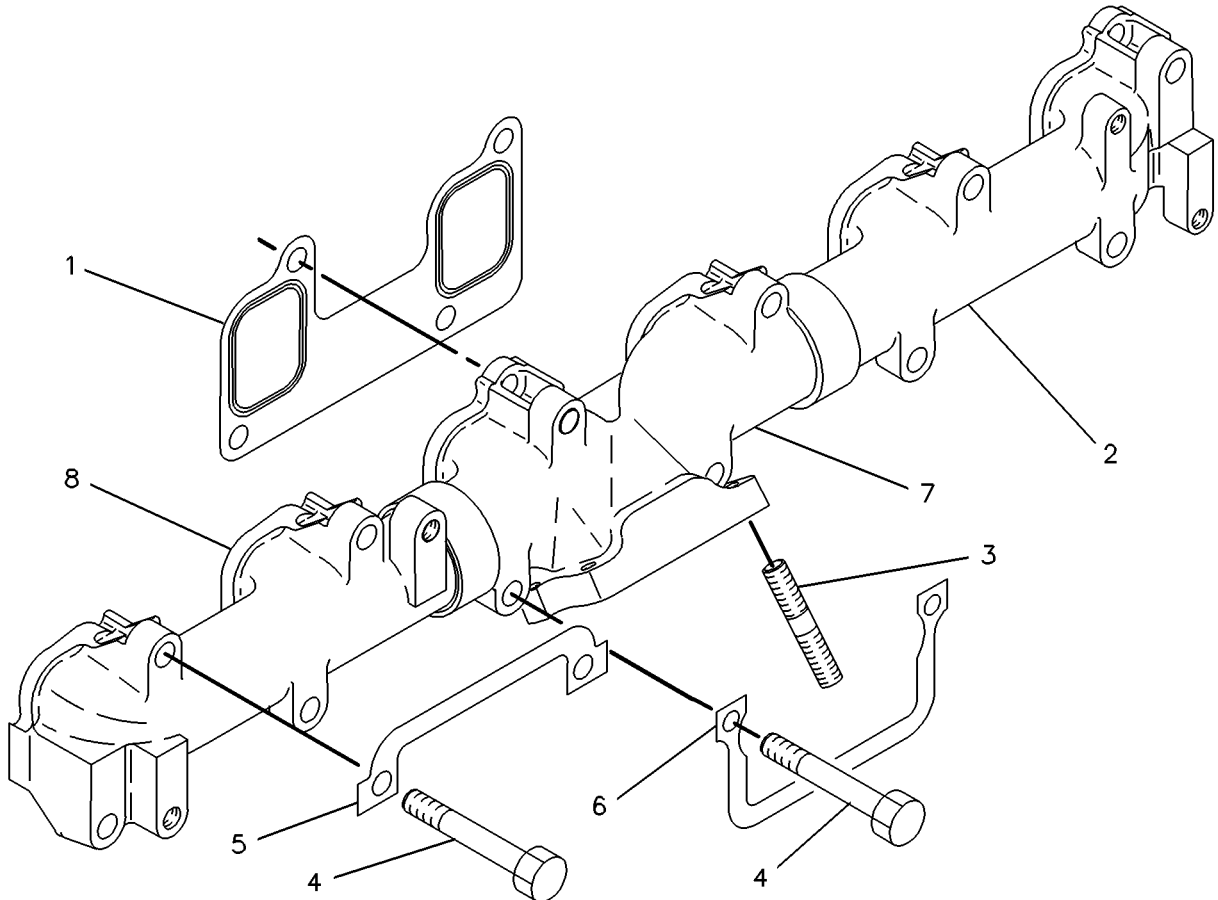
PART OF 197-8655 ENGINE AR-COMplete
FOR USE WITH EXHAUST TO REAR TURBOS

SMCS-1059

i00832109

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-3034	3	GASKET						
	2	1	115-4144	1	MANIFOLD-EXHAUST (RIGHT)						
M	3	1	8T-7044	4	STUD						
M	4	1	141-6348	12	BOLT-HEX HEAD						
	5	1	156-0235	5	LOCK						
	6	1	6I-3033	1	LOCK						
	7	1	6I-1099	1	MANIFOLD-EXHAUST (CENTER)						
	8	1	6I-0915	1	MANIFOLD-EXHAUST (LEFT)						

M-METRIC PART



GRAPHIC #1

g00108444

AIR INLET AND EXHAUST SYSTEM

183-5779 MANIFOLD GP-INLET

S/N: 55K8513-UP

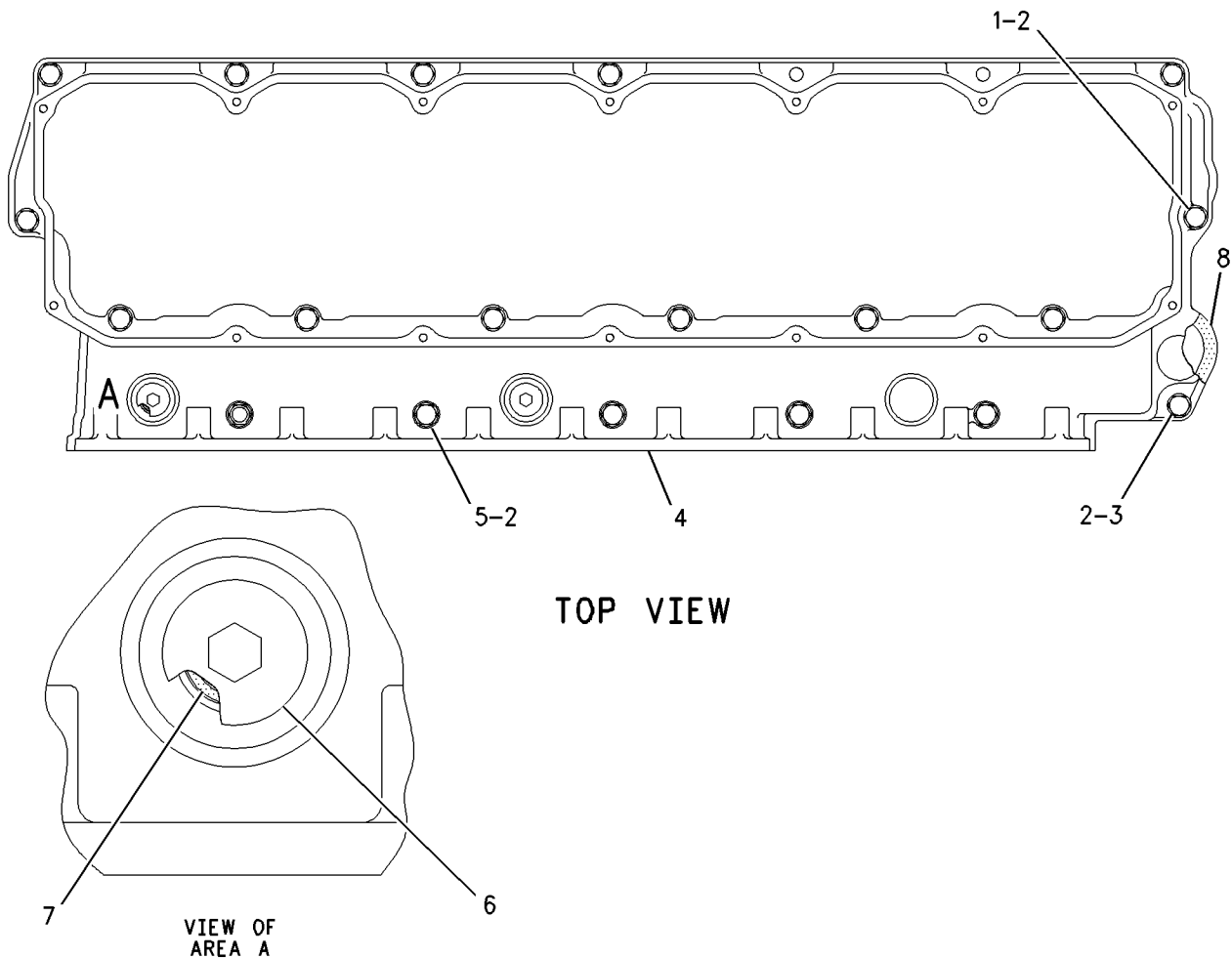
PART OF 168-8661 ENGINE AR-CORE

SMCS-1058

i01350553

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	5P-8347	13	BOLT (M8X1.25X70MM)						
	2	1	9M-1974	18	WASHER-HARD (2MM THK)						
M	3	1	6V-5218	1	BOLT (M8X1.25X35MM)						
	4	1	4W-8661	1	MANIFOLD-INLET						
M	5	1	6V-5223	4	BOLT (M8X1.25X100MM)						
	6	1	9S-8005	2	PLUG-O-RING (3/4-16 THD)						
	7	1	3K-0360	2	SEAL-O-RING (16.36MM ID)						
	8	1	113-6250	1	GASKET						

M-METRIC PART



GRAPHIC #1

g00709449

AIR INLET AND EXHAUST SYSTEM

162-6232 MOUNTING GP-AIR CLEANER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

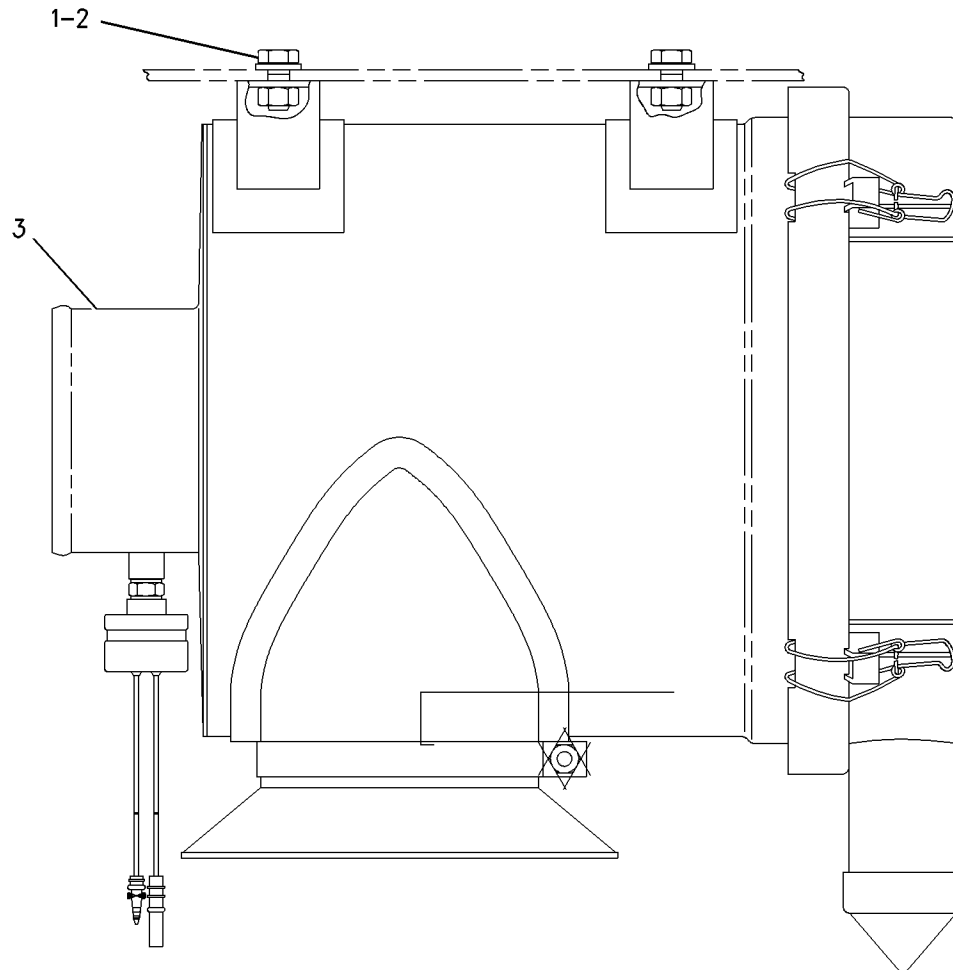
PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1051

i01349754

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4121	4	WASHER-HARD (2.5MM THK)						
M	2	1	8T-4137	4	BOLT (M10X1.50X20MM)						
Y	3	1	162-6201	1	AIR CLEANER GP						77

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00675858

AIR INLET AND EXHAUST SYSTEM

178-6486 MUFFLER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 197-8977 ENGINE AR

SMCS-1062

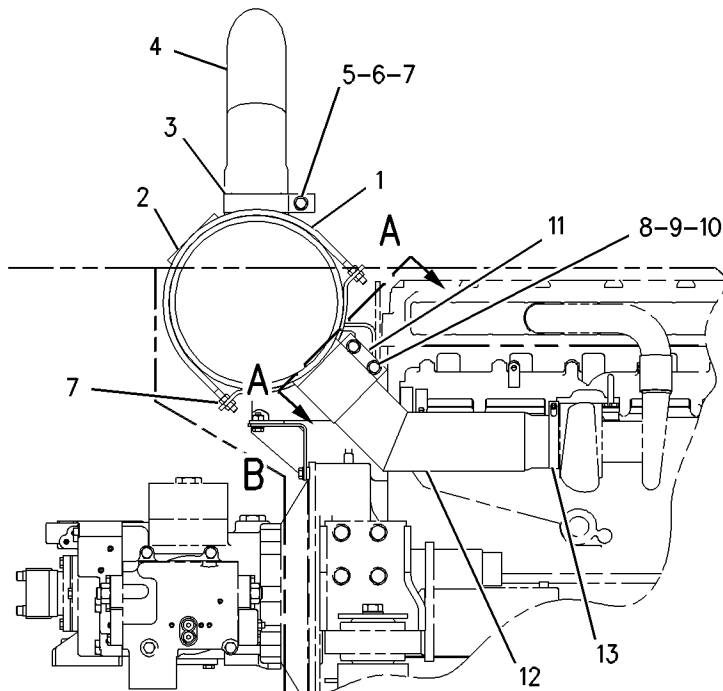
i01350249

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7Y-1319	2	U-BOLT						
	2	1	109-9323	1	MUFFLER AS						
	3	1	7S-8735	1	CLAMP						
	4	1	7Y-1517	1	PIPE AS-TAIL						
M	5	1	8T-4185	1	BOLT (M10X1.5X50MM)						
	6	1	8T-4121	9	WASHER-HARD (2.5MM THK)						
M	7	1	8T-4133	9	NUT (M10X1.50 THD)						
M	8	1	7Y-1727	2	BOLT						
	9	1	8T-4223	4	WASHER-HARD (3MM THK)						
M	10	1	8T-4244	2	NUT (M12X1.75 THD)						
	11	1	7Y-1532	1	CLAMP AS						
	12	1	178-6487	1	PIPE AS-EXHAUST						
	13	1	7C-0752	1	CLAMP						
	14	1	178-6491	1	SUPPORT AS						
M	15	1	8T-4136	4	BOLT (M10X1.50X25MM)						
	16	1	7Y-1523	1	PLATE						
M	17	1	8T-4137	2	BOLT (M10X1.50X20MM)						
M	18	1	8T-4195	4	BOLT (M10X1.50X30MM)						
	19	1	7X-7729	4	WASHER (3MM THK)						
	20	1	178-6488	1	BRACKET AS						
M		1	8T-3490	4	NUT-WELD (M10X1.5 THD)						
	21	1	7Y-1729	1	GASKET						
	22	1	8T-7934	2	WASHER-HARD (5.0MM THK)						
M	23	1	8T-4196	2	BOLT (M10X1.50X35MM)						
M-METRIC PART											

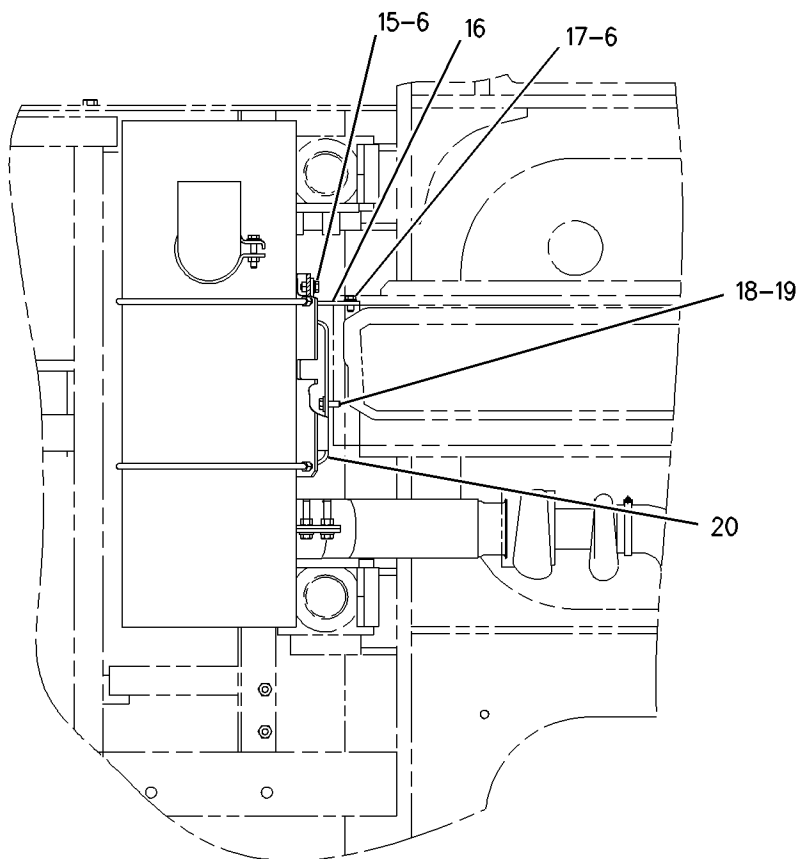
AIR INLET AND EXHAUST SYSTEM

178-6486 MUFFLER GP (contd.)

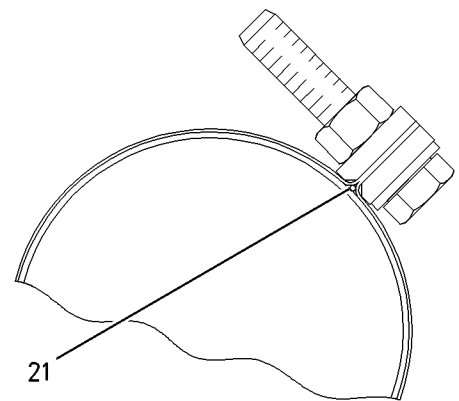
i01350249



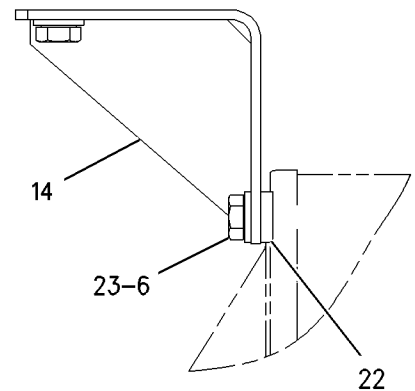
FRONT VIEW



TOP VIEW



SECTION A-A



VIEW OF AREA B

GRAPHIC #1

g00715388

AIR INLET AND EXHAUST SYSTEM

126-5879 TURBOCHARGER GP

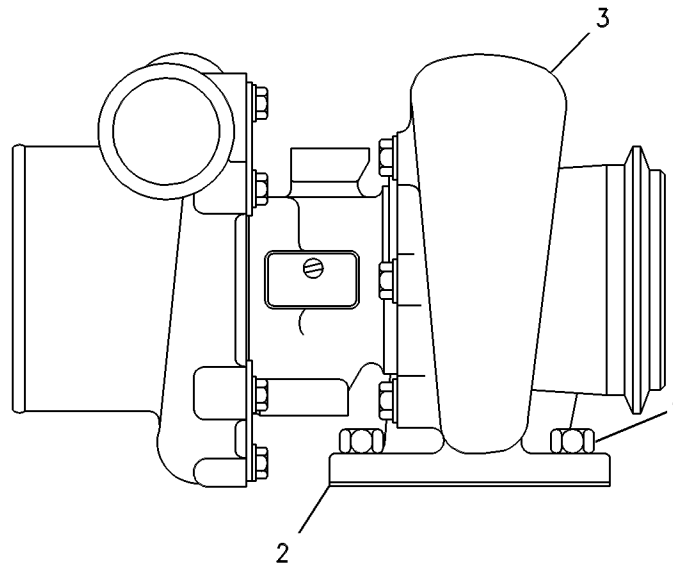
S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1052

i01344721

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	3E-8017	4	LOCKNUT (M10X1.5)						87
	2	1	7C-7431	1	GASKET - TURBOCHARGER						
YR	3	1	127-2924	1	TURBOCHARGER GP						
M-METRIC PART R-REMFG PART MAY BE AVAILABLE Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00117712

AIR INLET AND EXHAUST SYSTEM

127-2924 TURBOCHARGER GP*R

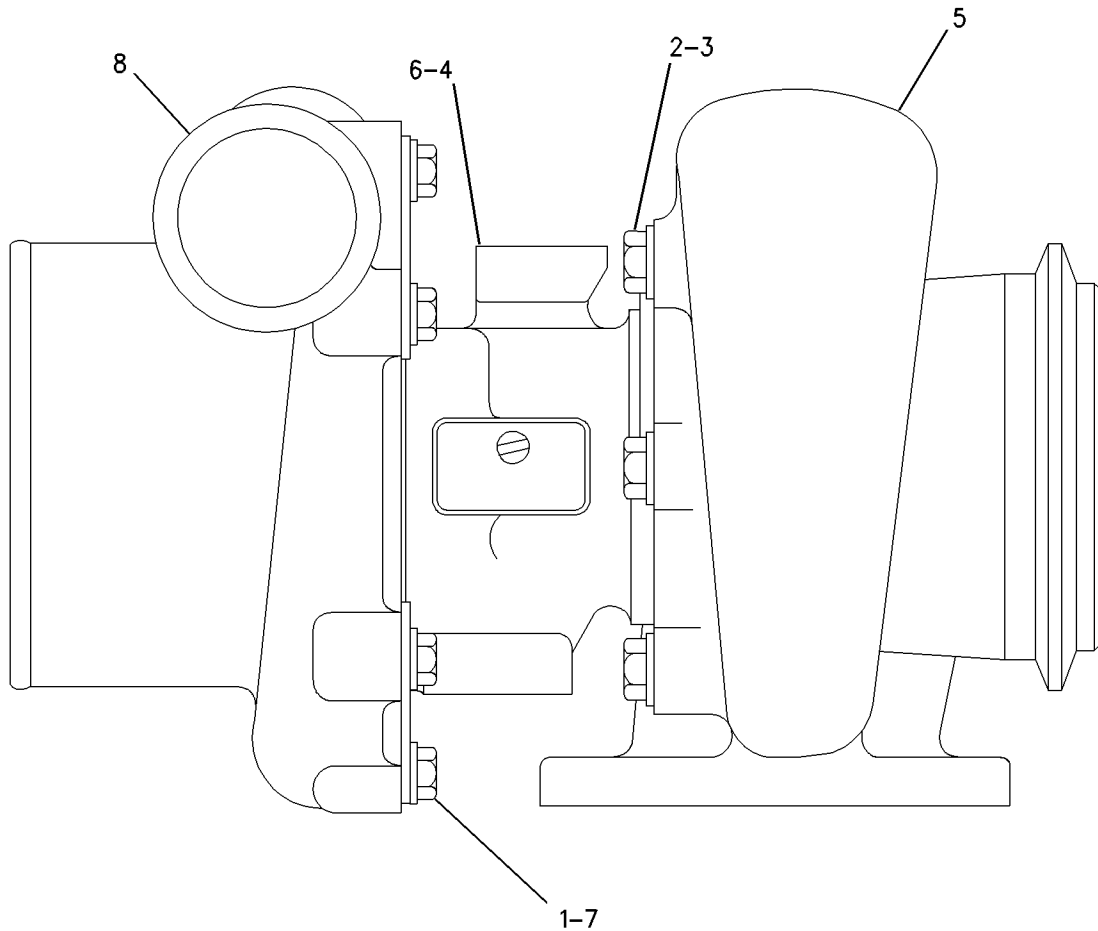
S/N: 55K8513-UP

PART OF 126-5879 TURBOCHARGER GP

SMCS-1052

i01344768

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	125-5466	6	BOLT AS						
M	2	1	7C-6670	4	BOLT (M8X12.5MM)						
	3	1	7C-6672	2	PLATE-CLAMP						
	4	1	115-5858	1	CARTRIDGE GP-TURBOCHARGER						
	5	1	116-0459	1	HOUSING-TURBINE						
	6	1	121-7554	1	SEAL-O-RING						
	7	1	121-9799	3	PLATE-CLAMP						
	8	1	125-1300	1	COVER-TURBOCHARGER COMPRESSOR						
M-METRIC PART											



GRAPHIC #1

g00710309

FUEL SYSTEM

129-1102 BASE GP-FUEL FILTER

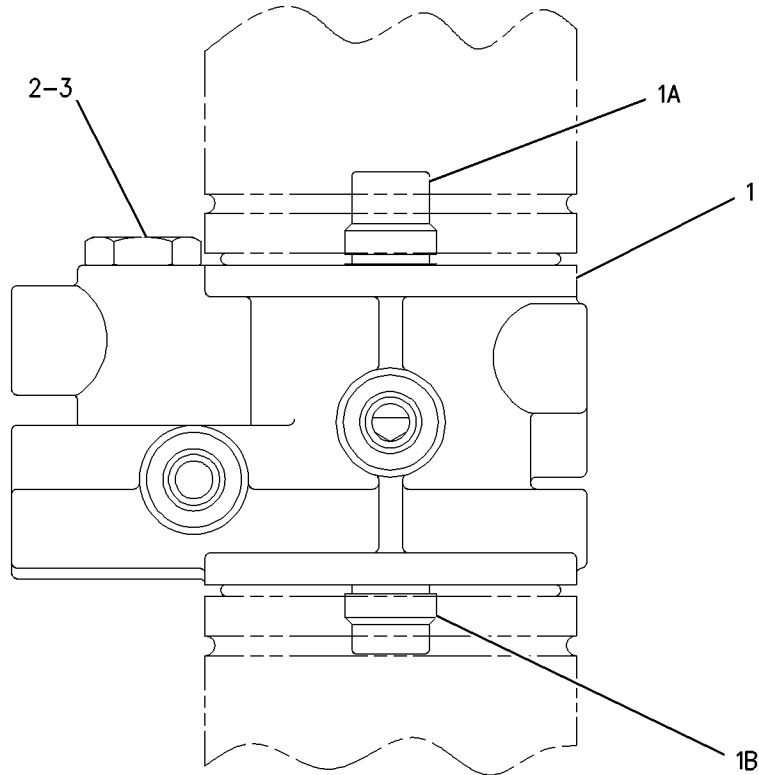
S/N: 55K8513-UP

PART OF 180-8016 LINES GP-FUEL FILTER

SMCS-1262

i01253020

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	129-1142	1	BASE AS						
	1A	1	112-6523	1	INSERT-FUEL FILTER						
	1B	1	139-3531	1	INSERT-FUEL FILTER						
Y	2	1	129-1101	1	VALVE GP-CHECK						509
	3	1	6V-4589	1	SEAL-O-RING (19.18MM ID)						
Y-SEPARATE ILLUSTRATION											



FRONT VIEW

GRAPHIC #1

g00667600

FUEL SYSTEM

105-1695 CONTROL GP-FUEL INJECTION

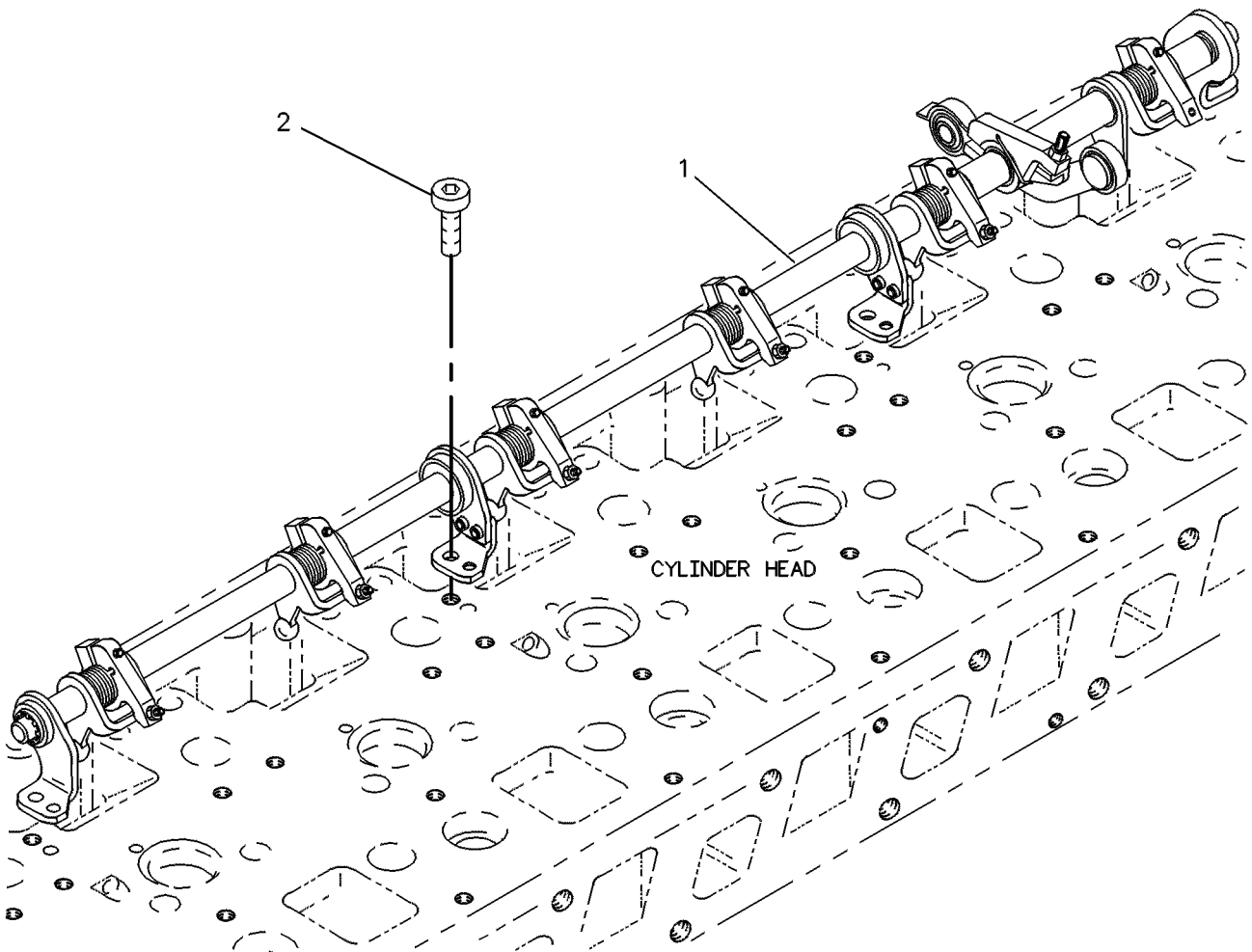
S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1298

i01118959

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
	1	1	162-8756	1	1	2	3	4	5	6 (PRODUCT LEVEL)	
M	2	1	6V-5683	4	BOLT (M6X1X16MM)						
M-METRIC PART											



GRAPHIC #1

g00108505

FUEL SYSTEM

171-2632 CONTROL GP-GOVERNOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1265

i01507788

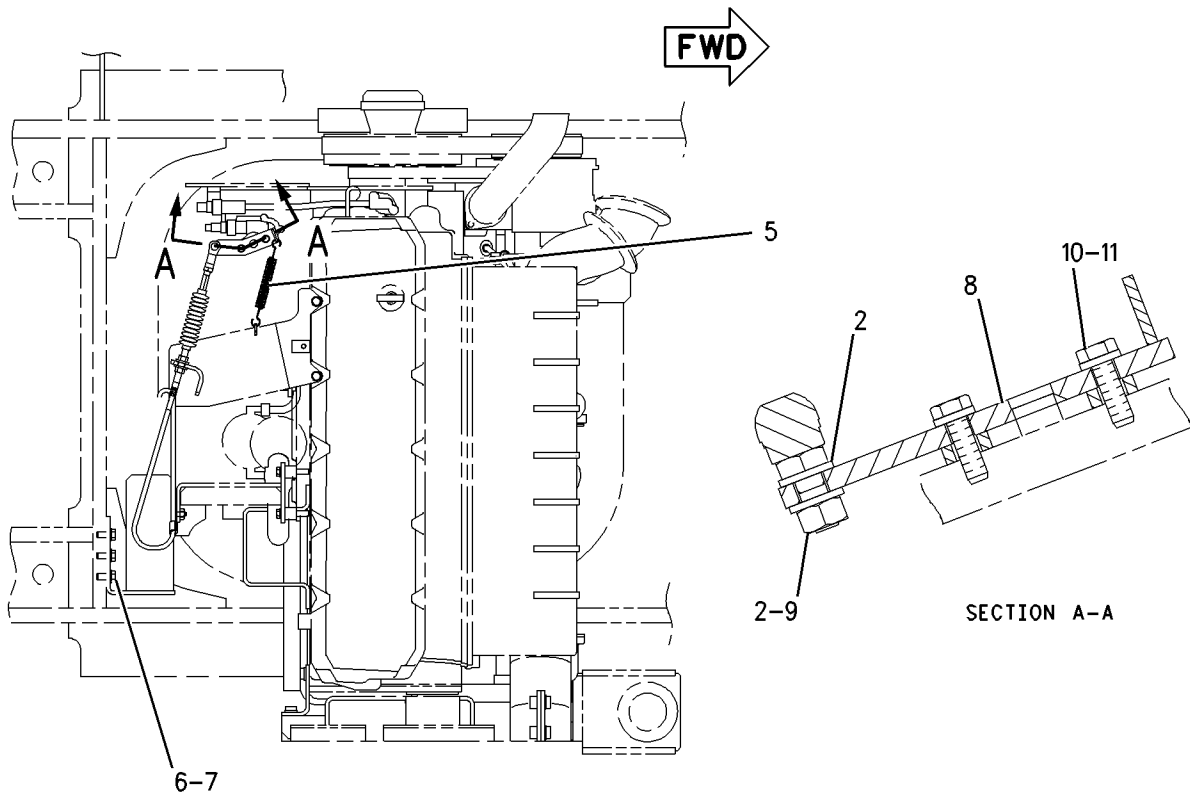
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4189	4	BOLT (M8X1.25X20MM)						
	2	1	8T-4224	8	WASHER-HARD (8.8X16X2MM THK)						
	3	1	4D-8123	2	CLIP						
	4	1	185-2487	1	BRACKET AS						
		1	177-7670	1	BRACKET						
	5	1	106-0070	1	SPRING						
M	6	1	8T-4136	3	BOLT (M10X1.5X25MM)						
	7	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
	8	1	132-7802	1	LEVER AS						
M	9	1	5C-7261	1	NUT (M8X1.25 THD)						
M	10	1	8T-4138	2	BOLT (M6X1X20MM)						
	11	1	9X-8256	2	WASHER (6.6X12X2MM THK)						
	12	1	106-0188	1	COVER AS						
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)						
M		1	8T-3612	1	NUT-WELD (M8X1.25 THD)						
	13	1	177-7673	1	MOTOR AS						
		1	102-8806	1	KIT-RECEPTACLE (8 PIN)						
		1	3E-3389	1	WEDGE-RECEPTACLE LOCK						
		1	8T-8737	2	PLUG-SEAL						
		1	157-3160	1	JOINT						
M	14	1	099-3649	2	BOLT (M8X1.25X40MM)						

M-METRIC PART

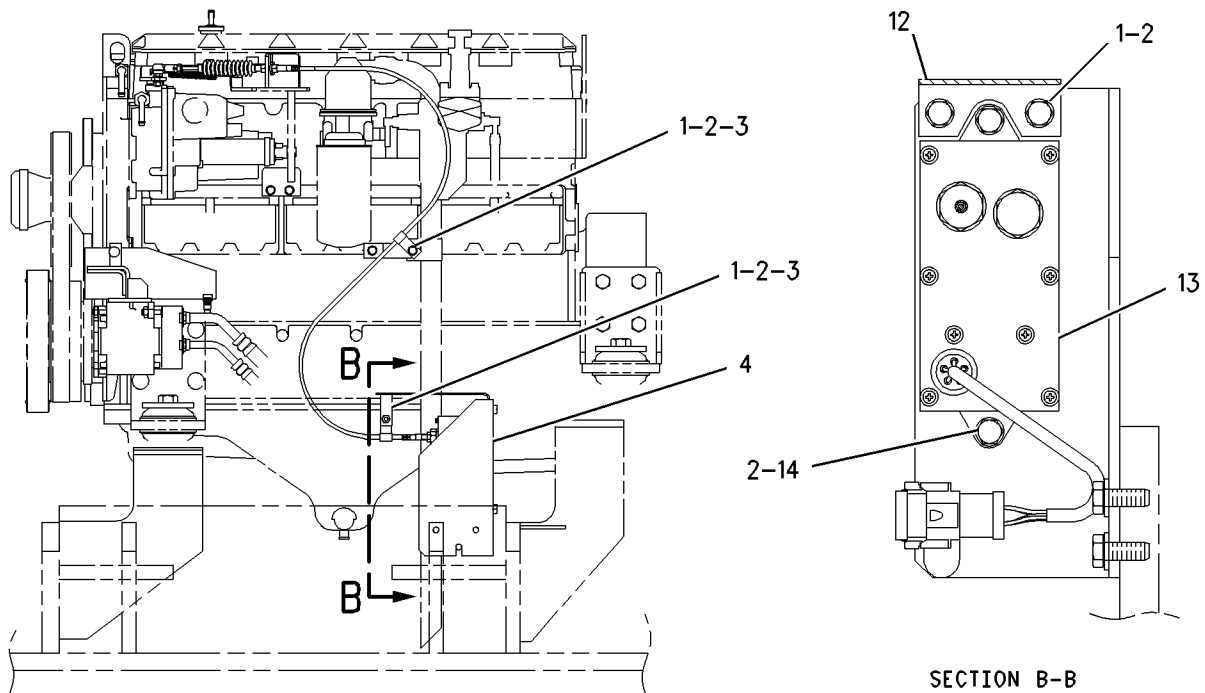
FUEL SYSTEM

171-2632 CONTROL GP-GOVERNOR (contd.)

i01507788



TOP VIEW



REAR VIEW

GRAPHIC #1

g00703906

FUEL SYSTEM

7E-8794 DRIVE GP-GOV & TRANSFER PUMP

S/N: 55K8513-UP

PART OF 151-0960 GOVERNOR GP-UNIT INJECTOR

SMCS-1288

i01517591

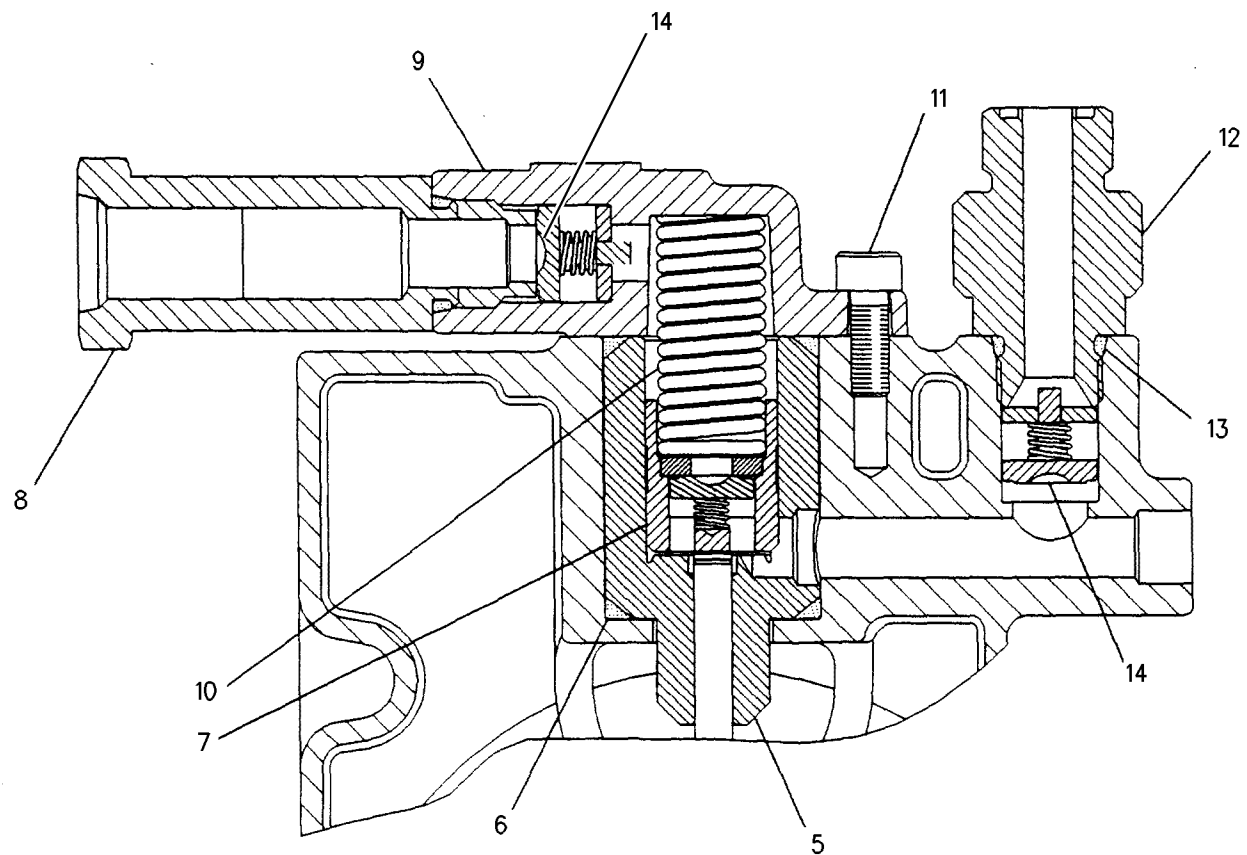
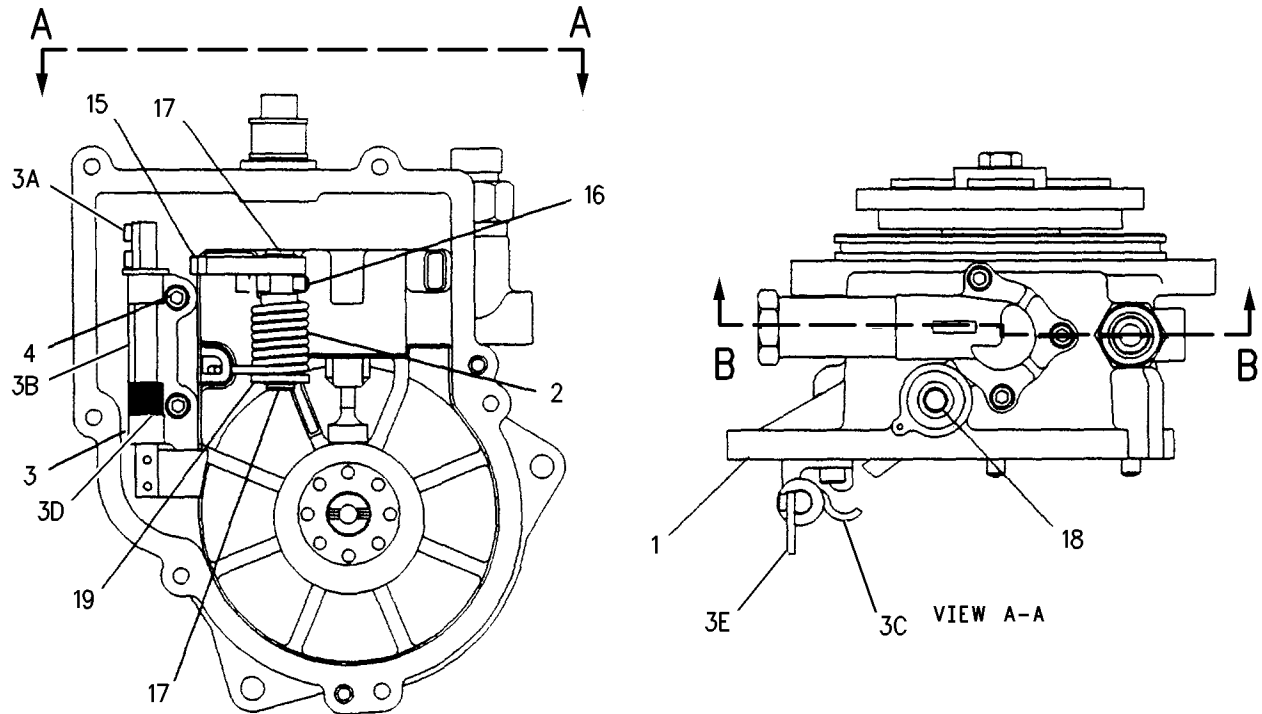
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-5612	1	HOUSING AS-FRONT						
		1	7S-5005	2	DOWEL						
		1	7S-6798	1	SEAL-LIP						
M		1	9Y-3107	1	BOLT						
	2	1	4P-8253	1	SPRING-TORSION						
	3	1	4P-9490	1	SHAFT AS-SHUTOFF						
M	3A	1	9X-8902	4	BOLT-SOCKET HEAD (M3X0.5X8MM)						
	3B	1	4P-9492	1	BRACKET-SHAFT						
	3C	1	4P-9493	1	LEVER-SHUTOFF (SOLENOID)						
	3D	1	4P-9494	1	SPRING-SHUTOFF						
	3E	1	105-0585	1	LEVER-SHUTOFF (OUTPUT)						
M	4	1	6V-5213	2	BOLT-SOCKET HEAD						
	5	1	7W-5615	1	SLEEVE AS-PUMP						
		1	1W-0565	1	RING-RETAINING						
	6	1	4D-9986	2	SEAL-O-RING (23.47MM ID)						
	7	1	4P-3953	1	PISTON AS						
	8	1	7E-0156	1	FITTING-INLET						
	9	1	4P-4224	1	COVER-TRANSFER PUMP						
	10	1	7C-5294	1	SPRING						
M	11	1	8C-6364	3	BOLT-SOCKET HEAD (M5X.8X14MM)						
	12	1	7E-9898	1	CONNECTOR						
	13	1	3J-1907	2	SEAL-O-RING (11.89MM ID)						
	14	1	7W-7383	2	VALVE AS-CHECK						
	15	1	7E-3943	1	LEVER-CONTROL						
M	16	1	9Y-9846	1	SCREW-LOCATOR						
	17	1	6L-8598	2	RING-RETAINING						
	18	1	4P-3538	1	SHAFT-THROTTLE						
	19	1	7E-3944	1	SLEEVE						

M-METRIC PART

FUEL SYSTEM

7E-8794 DRIVE GP-G0V & TRANSFER PUMP (contd.)

i01517591



SECTION B-B

GRAPHIC #1

g00692243

FUEL SYSTEM

7W-4812 FASTENER GP-FUEL INJ PUMP

S/N: 55K8513-UP

PART OF 183-2855 GOVERNOR GP-UNIT INJECTOR

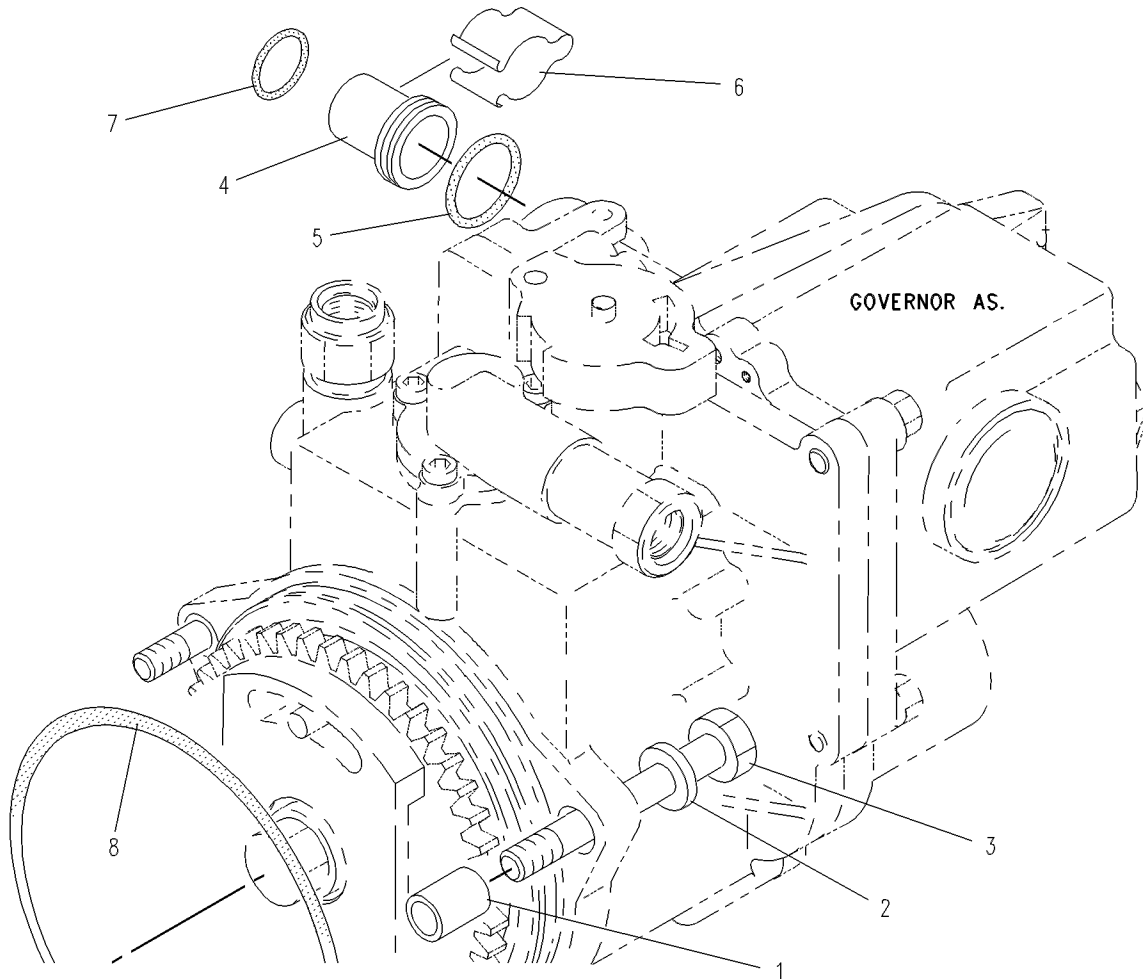
SMCS-1251

i01141353

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	7W-3872	1	SLEEVE						
	2	1	9M-1974	3	WASHER-HARD (2MM THK)						
M	3	1	6V-5218	3	BOLT (M8X1.25X35MM)						
	4	1	9Y-5295	1	TUBE-GOVERNOR CONNECTION						
	5	1	6F-6673	1	SEAL-O-RING (31.34MM ID)						
	6	1	7C-3839	1	CLIP-SPRING						
	7	1	7E-0844	1	SEAL						
	8	1	1T-1068	1	SEAL-O-RING (107.62MM ID)						

J- INSTALL SLEEVE IN FRONT HOUSING

M-METRIC PART



GRAPHIC #1

g00605749

FUEL SYSTEM

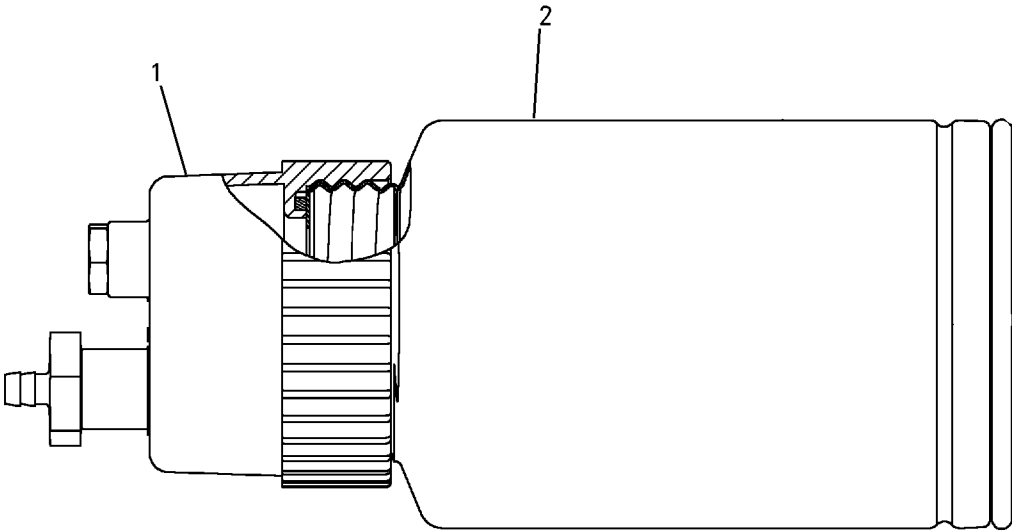
174-9570 FILTER GP-WATER SEP & FUEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 183-5876 FILTER GP-WATER SEP & FUEL

SMCS-1261, 1263

i01515678

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	173-7126	1	BOWL AS						
		1	5F-9144	1	SEAL-O-RING						
		1	6V-5049	1	SEAL-O-RING						
	2	1	1R-0770	1	FILTER AS-WATER SEP & FUEL						



GRAPHIC #1

g00787237

FUEL SYSTEM

183-5876 FILTER GP-WATER SEP & FUEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

MULTIPLE PORTING

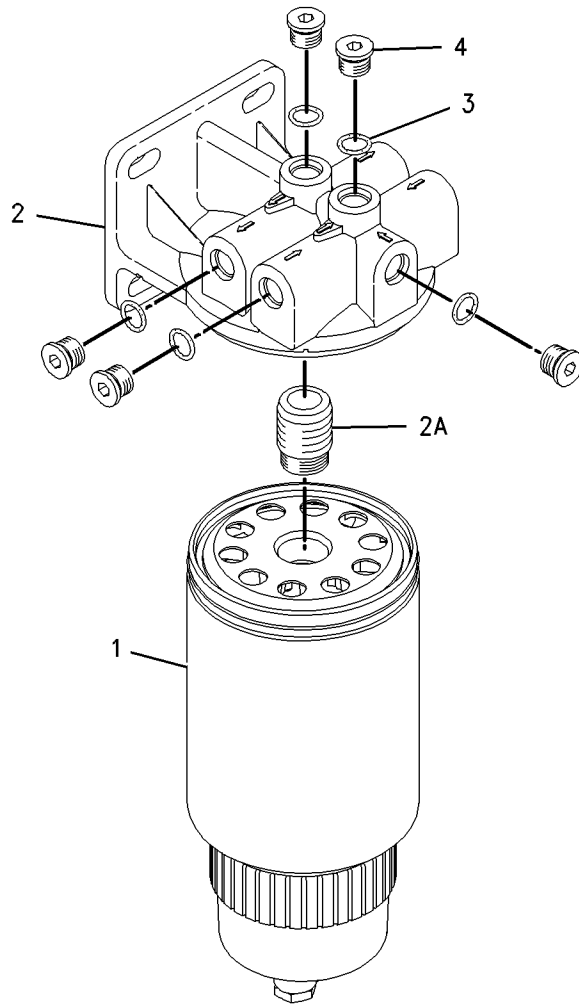
PART OF 177-5470 LINES GP-FUEL

SMCS-1261, 1263

i01547067

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME											SEE PAGE
					1	2	3	4	5	6	(PRODUCT LEVEL)					
Y	1	1	174-9570	1	FILTER GP-WATER SEP & FUEL											95
	2	1	177-9778	1	BASE AS											
		1	9S-4167	1	STUD-HOLLOW											
	3	1	190-7634	5	SEAL-O-RING											
	4	1	9S-8004	5	PLUG											

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00783499

MEMORANDA

FUEL SYSTEM

151-0960 GOVERNOR GP-UNIT INJECTOR

S/N: 55K8513-UP

PART OF 183-8072 GOVERNOR GP-UNIT INJECTOR

SMCS-1264

i01350601

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	130-7322	1	HOUSING AS	
Y	2	1	7E-8794	1	DRIVE GP-GOV & TRANSFER PUMP	92
M	3	1	8C-8546	9	BOLT-SOCKET HEAD	
	4	1	7E-3216	1	BLOCK AS-BEARING	
	4A	1	6F-5933	2	BEARING-NEEDLE	
	5	1	1N-3887	1	SETSCREW-SOCKET	
	6	1	7C-8854	1	PIN-CLEVIS	
	7	1	8T-1460	1	RING-RETAINING	
	8	1	7C-4483	1	SCREEN AS	
	9	1	7C-5541	2	TOE-FLYWEIGHT	
M	10	1	131-3984	1	BOLT-HEX HEAD	
	11	1	7C-5885	1	WASHER	
M	12	1	3T-0849	6	BOLT-SOCKET HEAD (M6X1X25MM)	
	13	1	117-9098	1	SLEEVE-LIMITING	
	14	1	123-6433	1	ARBOR AS-TORQUE CAM	
	15	1	108-1612	1	CLEVIS	
	16	1	4W-6630	1	LEVER	
	17	1	4P-4000	1	SPRING-LEVER	
	18	1	128-4794	1	PLUG-TAMPER	
M	19	1	8T-6702	1	SETSCREW-SOCKET	
	20	1	7W-4313	1	WASHER	
	21	1	8T-7060	1	RING-RETAINING	
	22	1	125-8158	1	SLEEVE-RACK CONTROL	
M	23	1	5C-2874	2	NUT (M5X.8 THD)	
	24	1	115-2553	1	VALVE-GOVERNOR SERVO	
	25	1	4P-5743	1	LEVER AS-LIMIT	
	26	1	7W-7364	1	SLEEVE-GOVERNOR SERVO	
	27	1	5P-9757	1	SEAL-O-RING (18.77MM ID)	
	28	1	6D-9953	1	PIN-SPRING	
	29	1	108-1613	1	PISTON-SERVO	
	30	1	8C-3312	1	RING-RETAINING	
	31	1	7C-5148	1	CARRIER-FLYWEIGHT	
	32	1	2S-7316	2	DOWEL	
	33	1	6V-7699	4	WASHER-HARD (1.6MM THK)	
M	34	1	8C-8545	4	BOLT-SOCKET HEAD	
	35	1	7W-8993	2	WEIGHT	
	36	1	4P-8947	1	RISER	
	37	1	4P-0737	1	SHAFT-RISER	
	38	1	7W-5591	1	SEAT-GOVERNOR SPRING	
M	39	1	6V-5213	3	BOLT-SOCKET HEAD	
	40	1	7L-3386	1	SEAL-O-RING	
	41	1	7C-5884	1	COVER-OIL SUMP	
	42	1	4P-4231	1	COVER-REAR	
	43	1	6V-5100	1	SEAL-O-RING (53.64MM ID)	
B	44	1	7C-5883	7	SHIM (.25MM THK)	
	45	1	7C-3776	1	PISTON AS	
	45A	1	4N-6407	1	SPOOL-DASHPOT	
	45B	1	4N-6406	1	RING-SPACER	
	45C	1	4N-6404	1	RING-RETAINING	
	46	1	4P-8948	1	SEAT AS-SPRING	
B	47	1	7W-1440	8	SHIM (.12MM THK)	
	48	1	7C-2743	2	RACE	
	49	1	7W-5561	1	BEARING-THRUST	
	50	1	115-1192	1	SEAL-GOVERNOR HOUSING	
	51	1	8C-5061	1	RING-RETAINING	
	52	1	7C-5150	1	PIN	

FUEL SYSTEM

151-0960 GOVERNOR GP-UNIT INJECTOR (contd.)

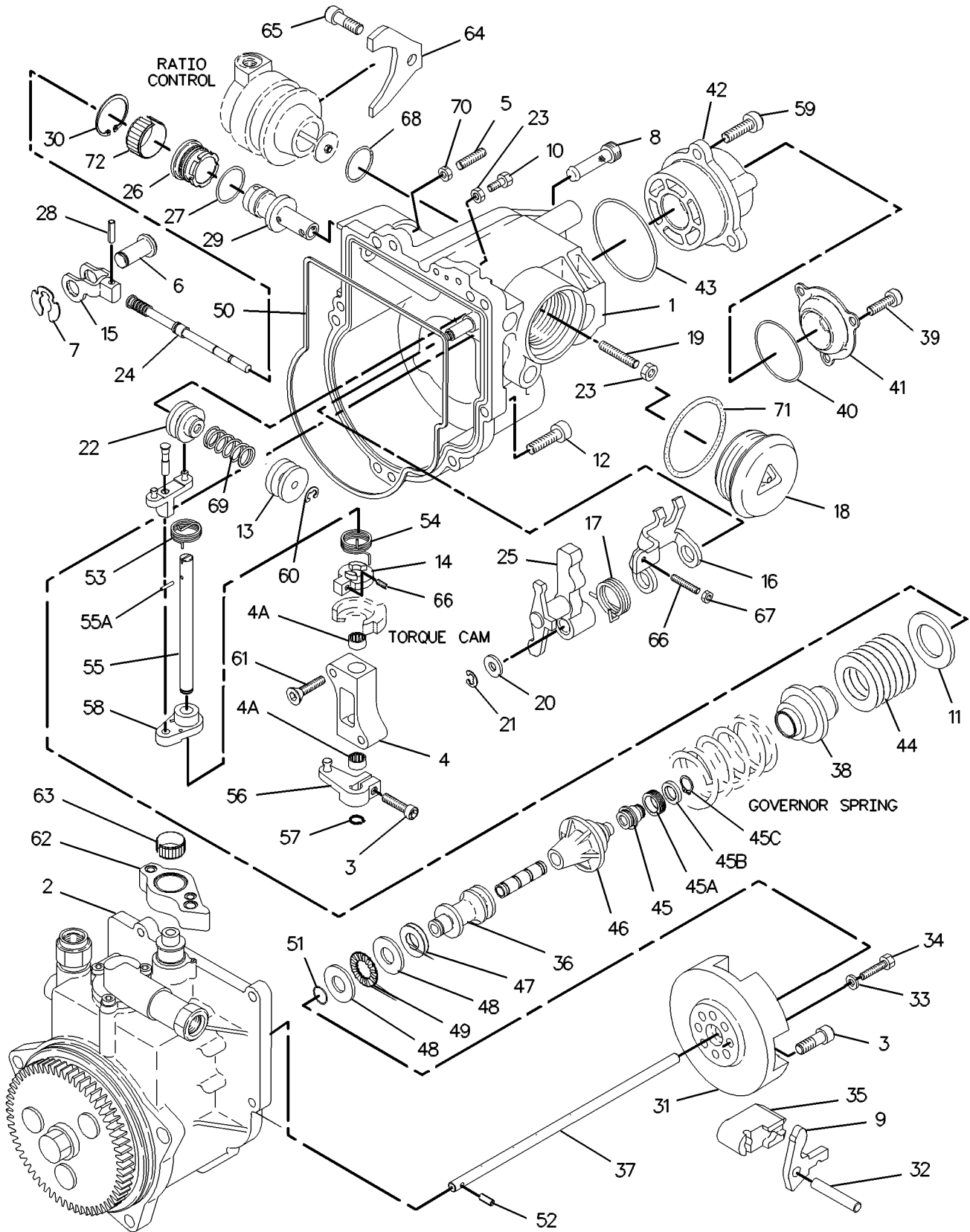
i01350601

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	53	1	7C-5480	1	SPRING-TORSION						
	54	1	7C-8640	1	SPRING-CAM						
	55	1	7W-5594	1	SHAFT AS-PIVOT						
	55A	1	8C-5899	1	PIN-SPRING						
	56	1	7E-3217	1	LEVER AS						
	57	1	3P-3547	1	RING-RETAINING						
	58	1	114-1803	1	LEVER AS						
M	59	1	8T-0269	3	BOLT-SOCKET HEAD (M6X1X20MM)						
	60	1	7N-2171	1	RING-RETAINING						
M	61	1	9X-2547	2	SCREW-FLAT HEAD						
	62	1	4P-3539	1	LEVER-THROTTLE						
	63	1	4P-3537	1	RING-TOLERANCE						
	64	1	4W-6010	1	CLAMP						
M	65	1	6V-5683	1	BOLT (M6X1X16MM)						
M	66	1	8T-8895	2	SETSCREW-SOCKET						
M	67	1	5C-8312	1	NUT (M4X0.7 THD)						
	68	1	5M-2057	1	SEAL-O-RING (34.59MM ID)						
	69	1	9Y-1837	1	SPRING						
	70	1	6V-8189	1	NUT (5/16-18 THD)						
	71	1	2S-4078	1	SEAL-O-RING (37.46MM ID)						
	72	1	109-4587	1	RING-TOLERANCE						
B-USE AS REQUIRED											
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											

FUEL SYSTEM

151-0960 GOVERNOR GP-UNIT INJECTOR (contd.)

i01350601



GRAPHIC #1

g00497812

FUEL SYSTEM

183-2855 GOVERNOR GP-UNIT INJECTOR

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1264

i01350614

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	7W-4812	1	FASTENER GP-FUEL INJ PUMP						94
Y	183-8072	1	GOVERNOR GP-UNIT INJECTOR						102
Y	7W-8434	1	LINES GP-GOVERNOR OIL						109
Y-SEPARATE ILLUSTRATION									

FUEL SYSTEM

183-8072 GOVERNOR GP-UNIT INJECTOR

S/N: 55K8513-UP

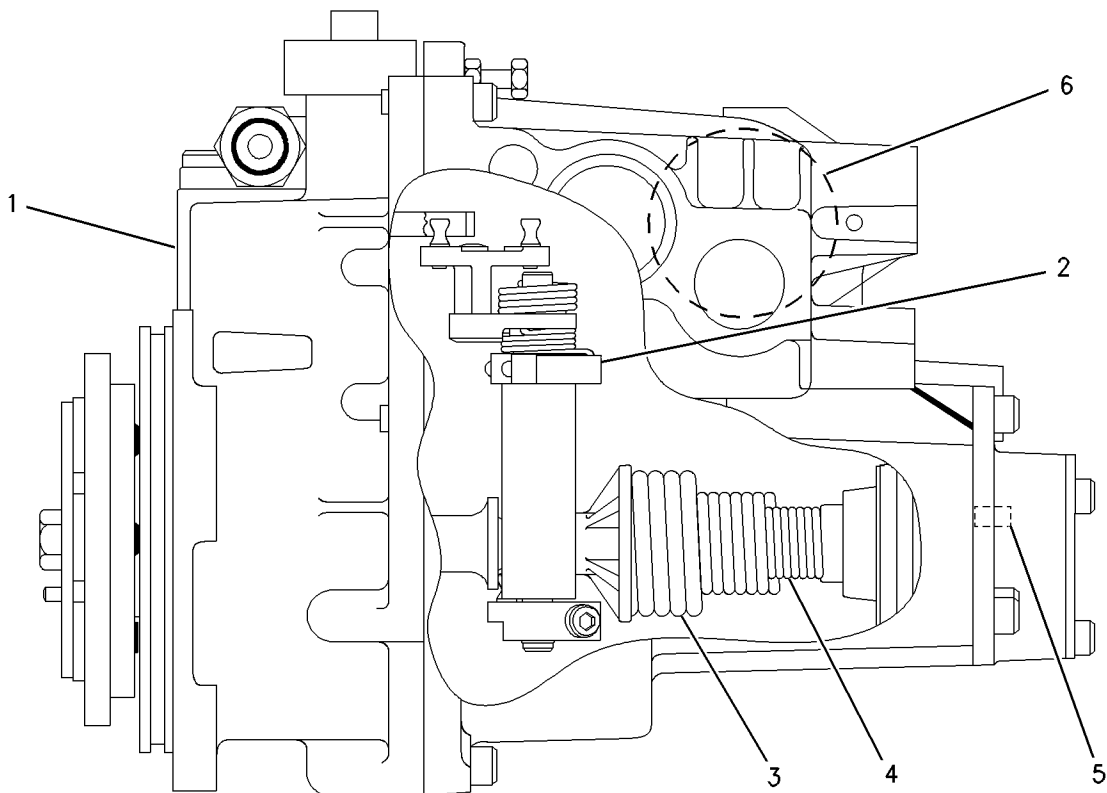
PART OF 183-2855 GOVERNOR GP-UNIT INJECTOR

SMCS-1264

i01350597

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	151-0960	1	GOVERNOR GP-UNIT INJECTOR						98
	2	1	189-6309	1	CAM-TORQUE						
	3	1	7E-9759	1	SPRING GP						
	4	1	7C-4466	1	SPRING-DASHPOT						
	5	1	7C-0989	1	PLUG-ORIFICE						
	6	1	4P-5745	1	CONTROL AS-RATIO						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00709511

MEMORANDA

FUEL SYSTEM

177-5470 LINES GP-FUEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1274

i01547071

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
E	1	1	5P-1442		HOSE (580CM)	
E	1A	1	5P-1442		HOSE (470CM)	
E	1B	1	5P-1442		HOSE (400CM)	
E	2	1	5P-1420		HOSE (20CM)	
Y	3	1	183-5876	1	FILTER GP-WATER SEP & FUEL	96
	4	1	177-6155	1	PLATE AS	
	5	1	095-1386	7	CLAMP-HOSE	
	6	1	5K-8451	9	CLIP	
	7	1	9M-8406	2	CLIP	
M	8	1	8T-4137	8	BOLT (M10X1.5X20MM)	
M	9	1	8T-4195	5	BOLT (M10X1.5X30MM)	
	12	1	8T-4121	15	WASHER-HARD (11X21X2.5MM THK)	
M	13	1	8T-4133	2	NUT (M10X1.5 THD)	
	14	1	8T-0151	1	ADAPTER	
	15	1	3J-1907	3	SEAL-O-RING	
	16	1	5P-4924	2	ELBOW	
	17	1	4I-5106	1	GROMMET	
	18	1	7Y-8167	1	GROMMET	
	19	1	093-2065	2	GROMMET	
	20	1	096-0061	2	STRAP-CABLE	
	21	1	135-8575	2	BOLT AS-SPECIAL (M12)	
					(EACH INCLUDES)	
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)	
M		1	8T-4139	1	BOLT (M12X1.75X30MM)	
	22	1	135-8573	1	BOLT AS-SPECIAL (M12)	
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)	
M		1	8T-4192	1	BOLT (M12X1.75X25MM)	

E-ORDER BY THE CENTIMETER

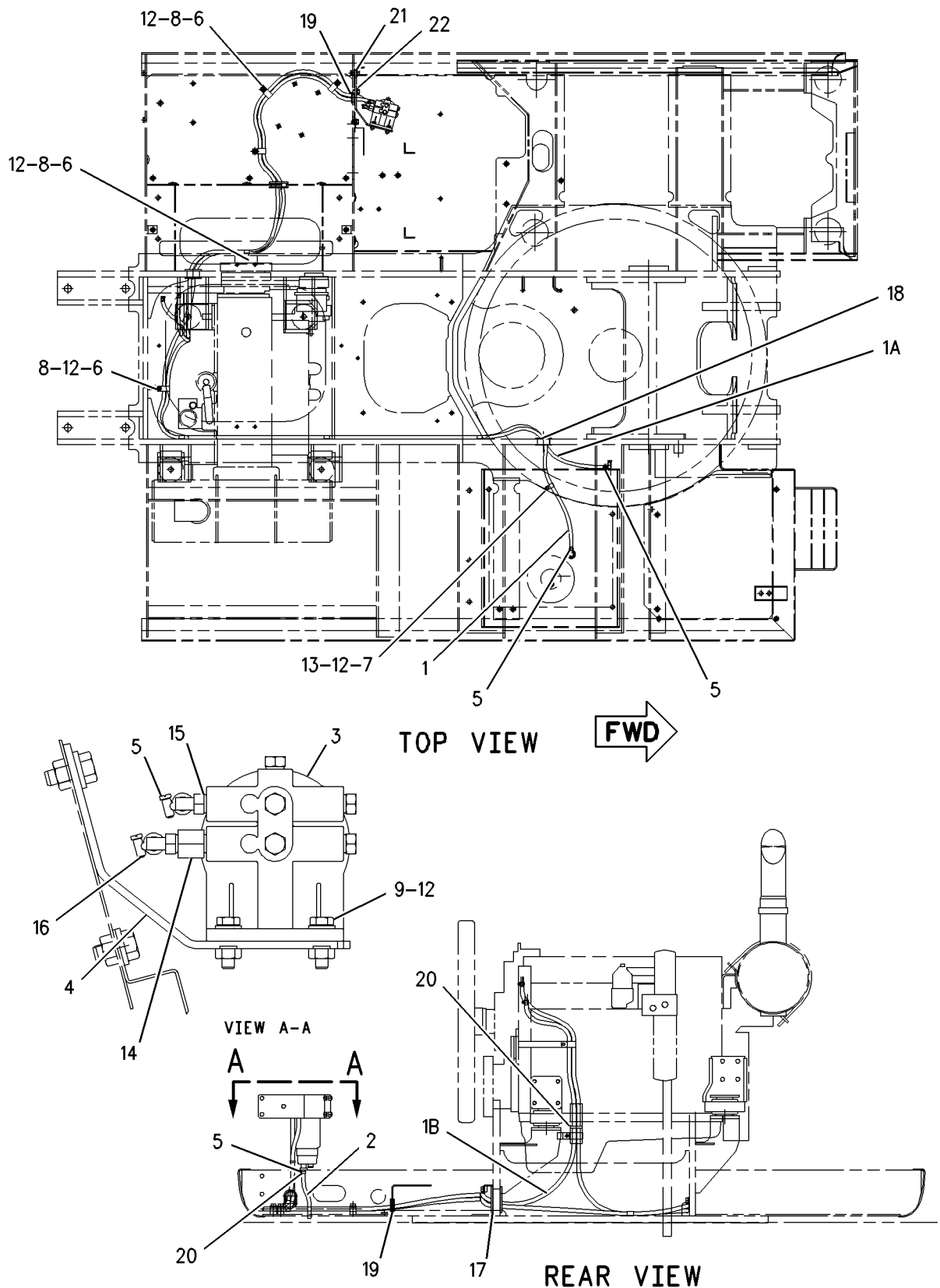
M-METRIC PART

Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

177-5470 LINES GP-FUEL (contd.)

i01547071



GRAPHIC #1

g00799686

FUEL SYSTEM

180-8016 LINES GP-FUEL FILTER

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1261

i01540431

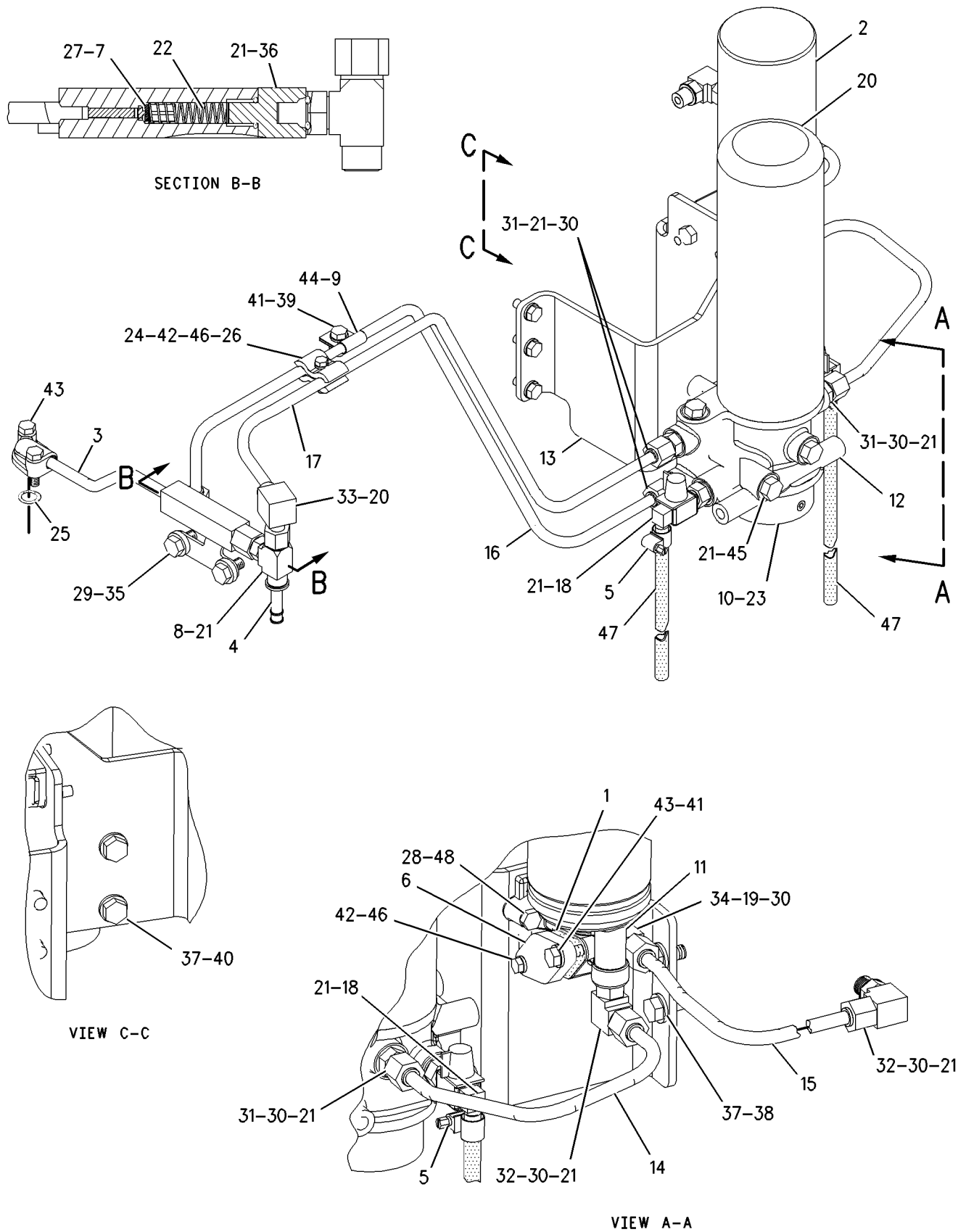
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1P-0436	1	GASKET (FUEL PRIMING PUMP)	
	2	1	1R-0751	1	FILTER AS-FUEL	
	3	1	4P-9696	1	TUBE AS	
	4	1	5P-1046	1	CONNECTOR	
	5	1	5P-4961	2	CLAMP-HOSE	
	6	1	6N-4414	1	COVER-FILTER BASE	
	7	1	7E-5189	1	VALVE-REGULATOR	
	8	1	7X-2459	1	TEE-O-RING	
	9	1	9W-4216	1	SPACER (9X18X7MM THK)	
	10	1	119-2986	1	COVER	
	11	1	120-0201	1	BASE AS	
		1	112-6523	1	INSERT-FUEL FILTER	
Y	12	1	129-1102	1	BASE GP-FUEL FILTER	88
	13	1	180-8017	1	BRACKET AS	
M		1	8T-3612	2	NUT-WELD (M8X1.25 THD)	
	14	1	180-8018	1	TUBE AS	
	15	1	180-8019	1	TUBE AS	
	16	1	180-8020	1	TUBE AS	
	17	1	180-8021	1	TUBE AS	
	18	1	141-8275	2	VALVE-DRAIN	
	19	1	1J-9671	1	SEAL-O-RING	
	20	1	1R-0753	1	FILTER AS-FUEL	
	21	1	3J-1907	12	SEAL-O-RING	
	22	1	3N-3252	1	SPRING	
	23	1	3P-0657	1	SEAL-O-RING	
M	24	1	5C-2890	1	NUT (M6X1 THD)	
	25	1	5F-7054	1	SEAL-O-RING	
	26	1	5M-5689	2	CLAMP	
	27	1	5P-7813	1	SEAL-O-RING	
M	28	1	6V-3940	2	BOLT (M8X1.25X25MM)	
M	29	1	6V-6317	2	BOLT (M10X1.5X20MM)	
	30	1	6V-8397	9	SEAL-O-RING	
	31	1	6V-8636	3	CONNECTOR	
	32	1	6V-8724	2	ELBOW	
	33	1	6V-9850	1	ELBOW-SWIVEL	
	34	1	7X-0901	1	ELBOW	
	35	1	8M-9024	2	WASHER-HARD (10.2X22.5X5MM THK)	
	36	1	8T-0151	1	ADAPTER	
	37	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)	
M	38	1	8T-4137	2	BOLT (M10X1.5X20MM)	
M	39	1	8T-4189	4	BOLT (M8X1.25X20MM)	
M	40	1	8T-4195	4	BOLT (M10X1.5X30MM)	
	41	1	8T-4224	5	WASHER-HARD (8.8X16X2MM THK)	
M	42	1	8T-4971	2	BOLT (M6X1X30MM)	
M	43	1	8T-7547	3	BOLT (M8X1.25X30MM)	
	44	1	9S-1350	1	CLIP	
	45	1	9S-4191	2	PLUG-STRAIGHT THREAD (9/16-18 THD)	
	46	1	9X-8256	3	WASHER (6.6X12X2MM THK)	
E	47	1	103-2529		HOSE (97.5CM EACH)	
	48	1	9M-1974	2	WASHER-HARD (8.8X16X2MM THK)	

E-ORDER BY THE CENTIMETER
M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

180-8016 LINES GP-FUEL FILTER (contd.)

i01540431



GRAPHIC #1

g00800158

FUEL SYSTEM

4P-9693 LINES GP-FUEL RATIO CONTROL

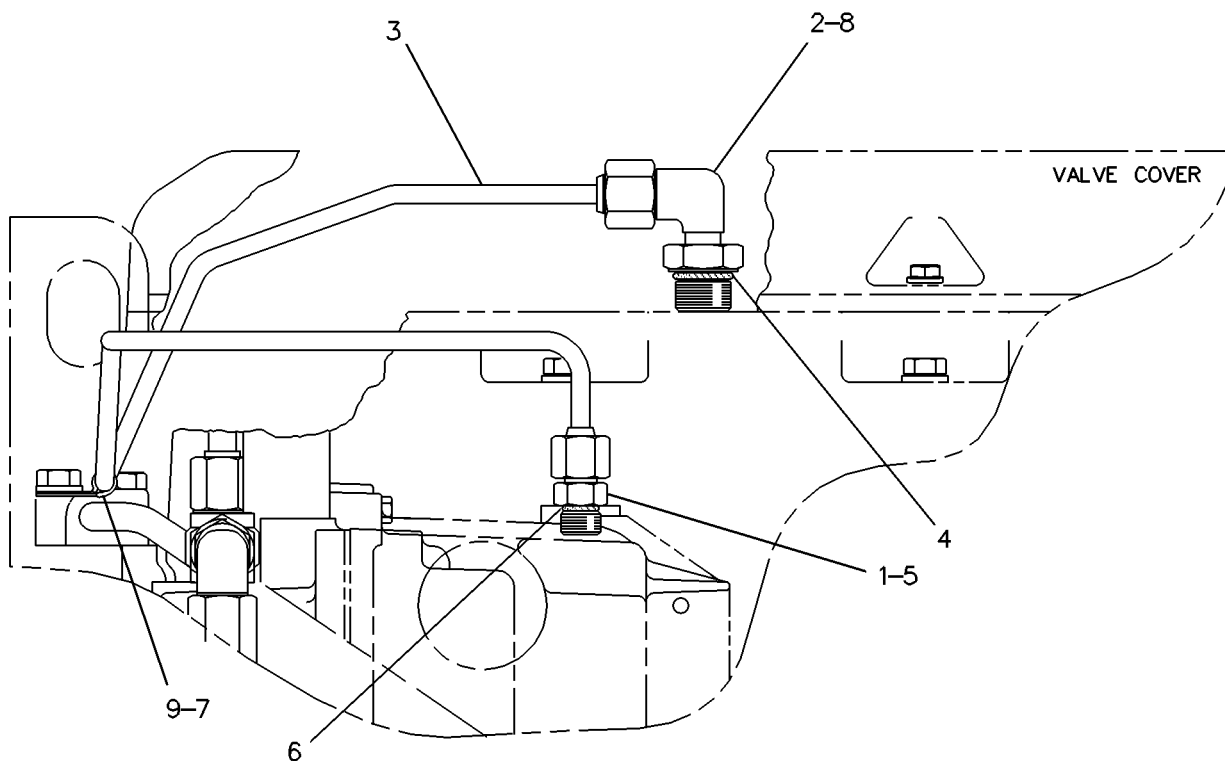
S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1278

i00159861

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8647	1	CONNECTOR-SEAL						
	2	1	6V-8723	1	ELBOW-90 DEGREE (3/4-16 THD)						
	3	1	4P-9694	1	TUBE AS						
	4	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	5	1	4J-5477	1	SEAL-O-RING (8.61MM ID)						
	6	1	3J-7354	1	SEAL-O-RING (8.92MM ID)						
	7	1	9M-1974	1	WASHER-HARD (2MM THK)						
	8	1	6V-8397	1	SEAL-O-RING (9.27MM ID)						
	9	1	8M-2772	1	CLIP (6.35MM ID)						



LEFT SIDE VIEW

GRAPHIC #1

g00117211

FUEL SYSTEM

7W-8434 LINES GP-GOVERNOR OIL

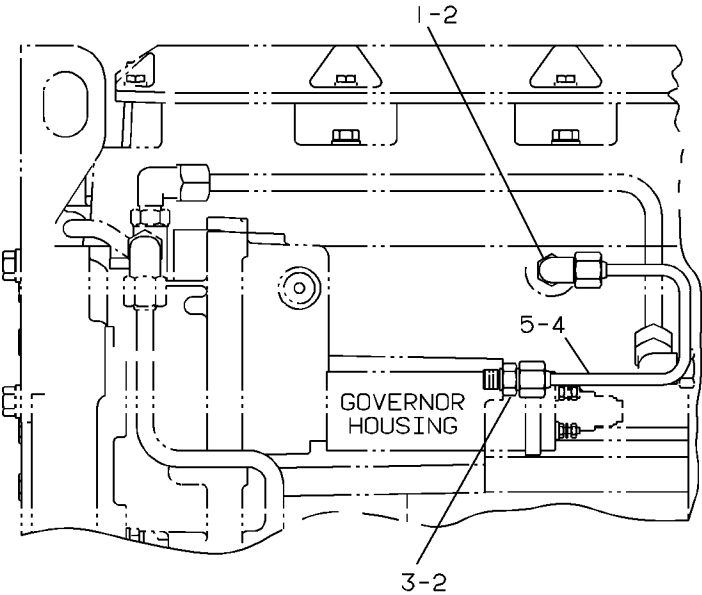
S/N: 55K8513-UP

PART OF 183-2855 GOVERNOR GP-UNIT INJECTOR

SMCS-1307

i00127531

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8628	1	ELBOW-90 DEGREE (9/16-18 THD)						
	2	1	3J-7354	2	SEAL-O-RING (8.92MM ID)						
	3	1	6V-8647	1	CONNECTOR-SEAL						
	4	1	7W-0367	1	TUBE AS						
	5	1	4J-5477	2	SEAL-O-RING (8.61MM ID)						



LEFT SIDE VIEW

GRAPHIC #1

g00108395

FUEL SYSTEM

129-3230 PUMP GP-FUEL PRIMING

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1258

i01255805

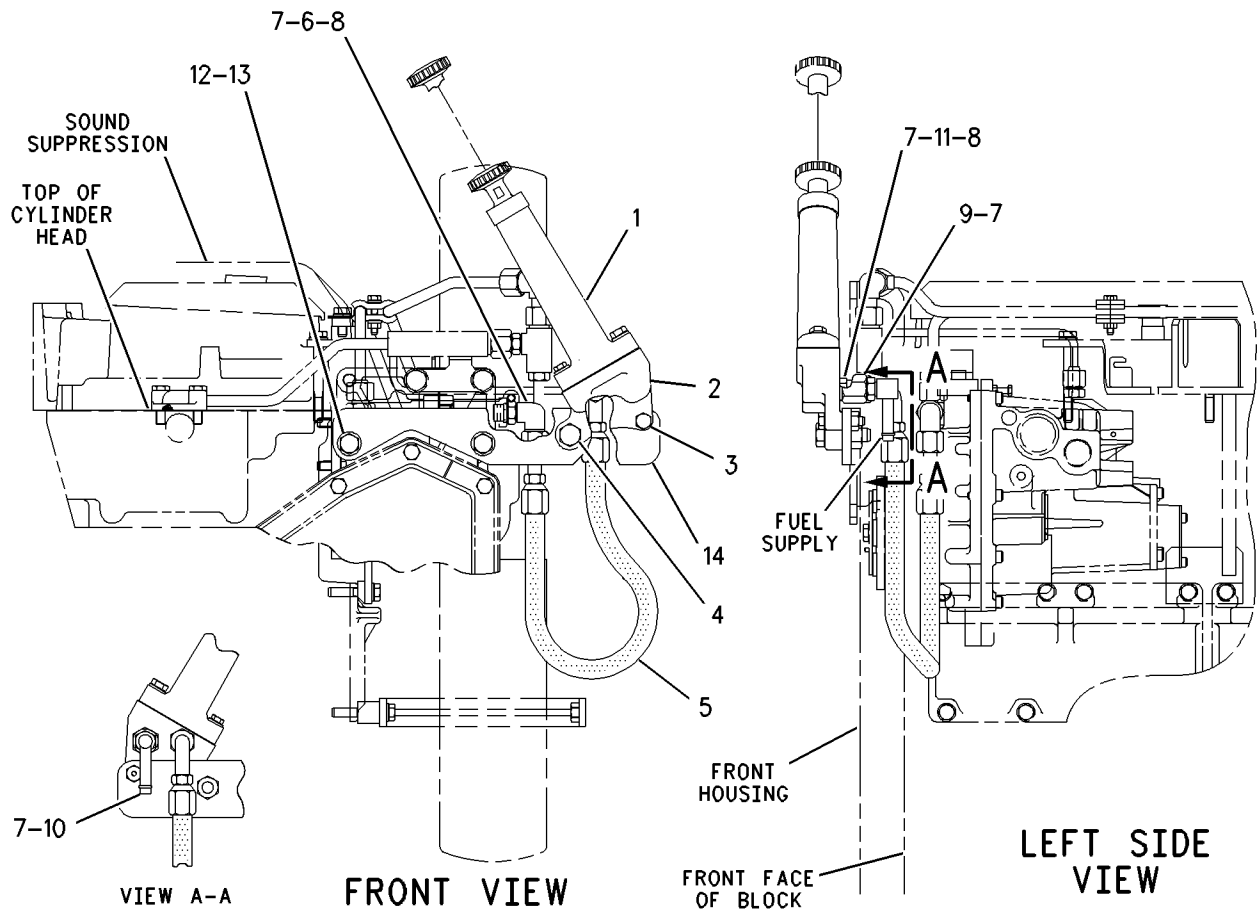
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	183-2824	1	PUMP GP-FUEL PRIMING						112
	2	1	9Y-1760	1	BRACKET-PRIMING PUMP						
M	3	1	7X-2537	1	BOLT (M8X1.25X35MM)						
M	4	1	8T-4183	1	BOLT (M12X1.75X40 MM)						
I	5	1	113-0454	1	HOSE AS						
	6	1	6V-8724	1	ELBOW (9/16-18 THD)						
	7	1	3J-1907	4	SEAL-O-RING (11.89MM ID)						
	8	1	6V-8397	2	SEAL-O-RING (9.27MM ID)						
	9	1	8T-0151	1	ADAPTER						
	10	1	5P-4924	1	ELBOW-90 DEGREE						
	11	1	6V-8636	1	ADAPTER-SEAL (ORFS 11/16-16; PORT 9/16-18)						
M	12	1	8T-4195	2	BOLT (M10X1.50X30MM)						
	13	1	8T-4121	2	WASHER-HARD (2.5MM THK)						
	14	1	129-3231	1	BRACKET AS						
M		1	8T-3597	1	NUT-WELD (M12X1.75 THD)						
M		1	8T-3612	1	NUT-WELD (M8X1.25 THD)						

C-CHANGE FROM PREVIOUS TYPE
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

129-3230 PUMP GP - FUEL PRIMING (contd.)

i01255805



GRAPHIC #1

g00671668

FUEL SYSTEM

183-2824 PUMP GP-FUEL PRIMING

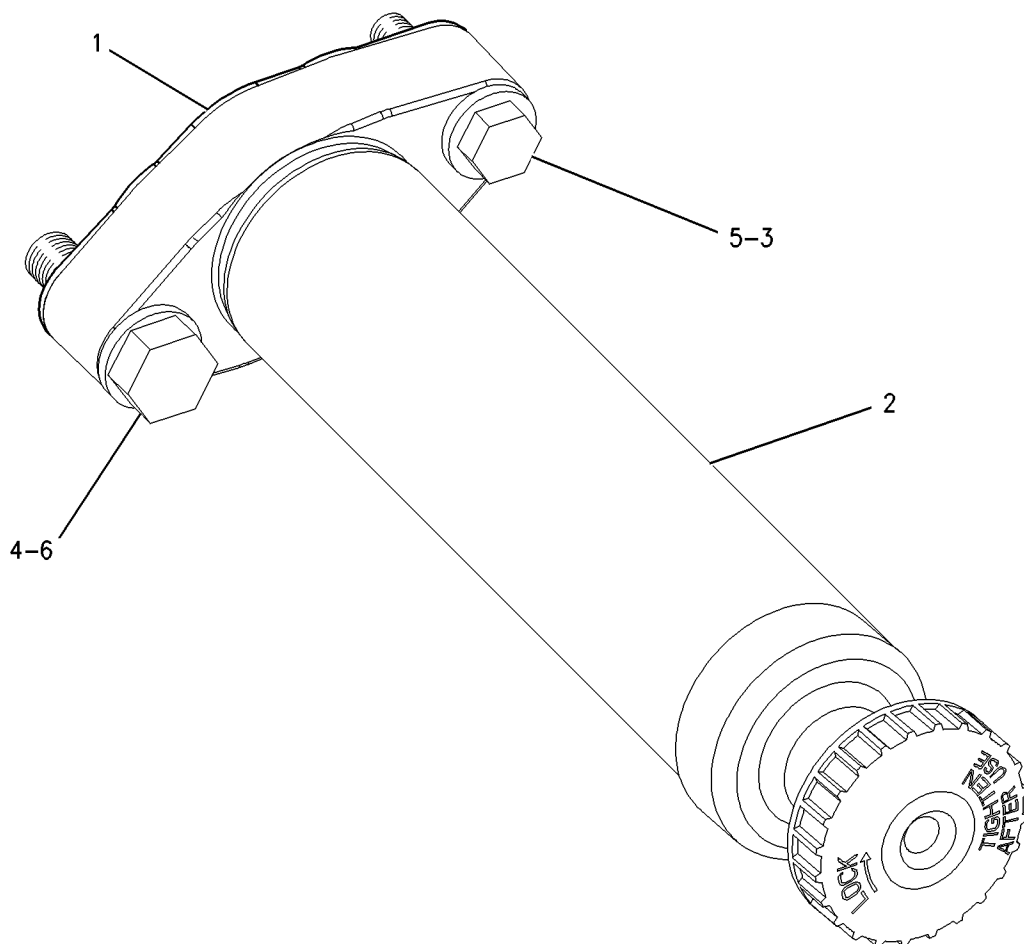
S/N: 55K8513-UP

PART OF 129-3230 PUMP GP-FUEL PRIMING

SMCS-1258

i01255876

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-8389	1	GASKET						
	2	1	183-2823	1	PUMP AS-FUEL PRIMING						
	3	1	5P-0537	1	WASHER (2MM THK)						
M	4	1	6V-2317	1	BOLT (M8X1.25X30MM)						
M	5	1	8T-0640	1	BOLT (M6X1.0X30MM)						
	6	1	9M-1974	1	WASHER-HARD (2MM THK)						
M-METRIC PART											



GRAPHIC #1

g00671509

FUEL SYSTEM

107-7732 PUMP GP-UNIT INJECTION

S/N: 55K8513-UP

PART OF 168-8661 ENGINE AR-CORE

SMCS-1251

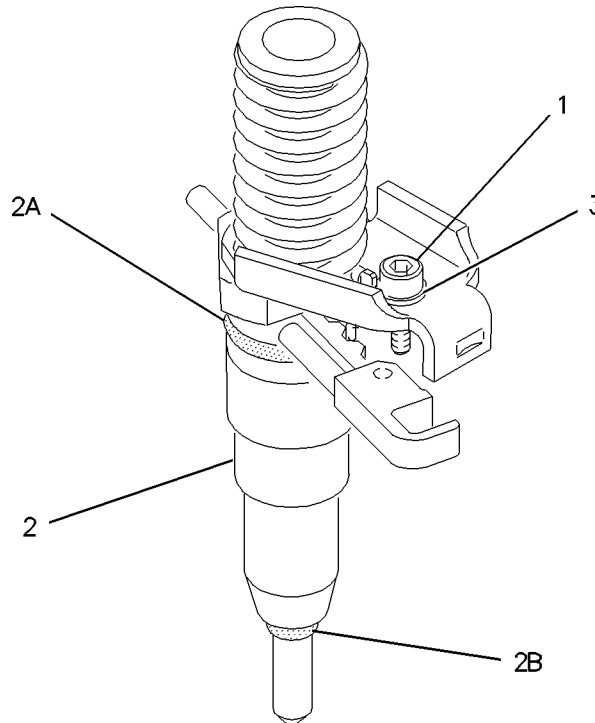
i01306934

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CM	1	1	139-5925	1	BOLT-SOCKET HEAD (M6X1X30MM)						
CR	2	1	127-8216	1	INJECTOR GP-FUEL						
	2A	1	114-8718	1	SEAL-O-RING (26.64MM ID)						
	2B	1	125-8274	1	SEAL-O-RING (7.59MM ID)						
C	3	1	9X-8267	1	WASHER (2MM THK)						

C-CHANGE FROM PREVIOUS TYPE

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00692325

FUEL SYSTEM

190-6184 SUPPORT GP-GOVERNOR CONTROL

S/N: 55K8513-UP

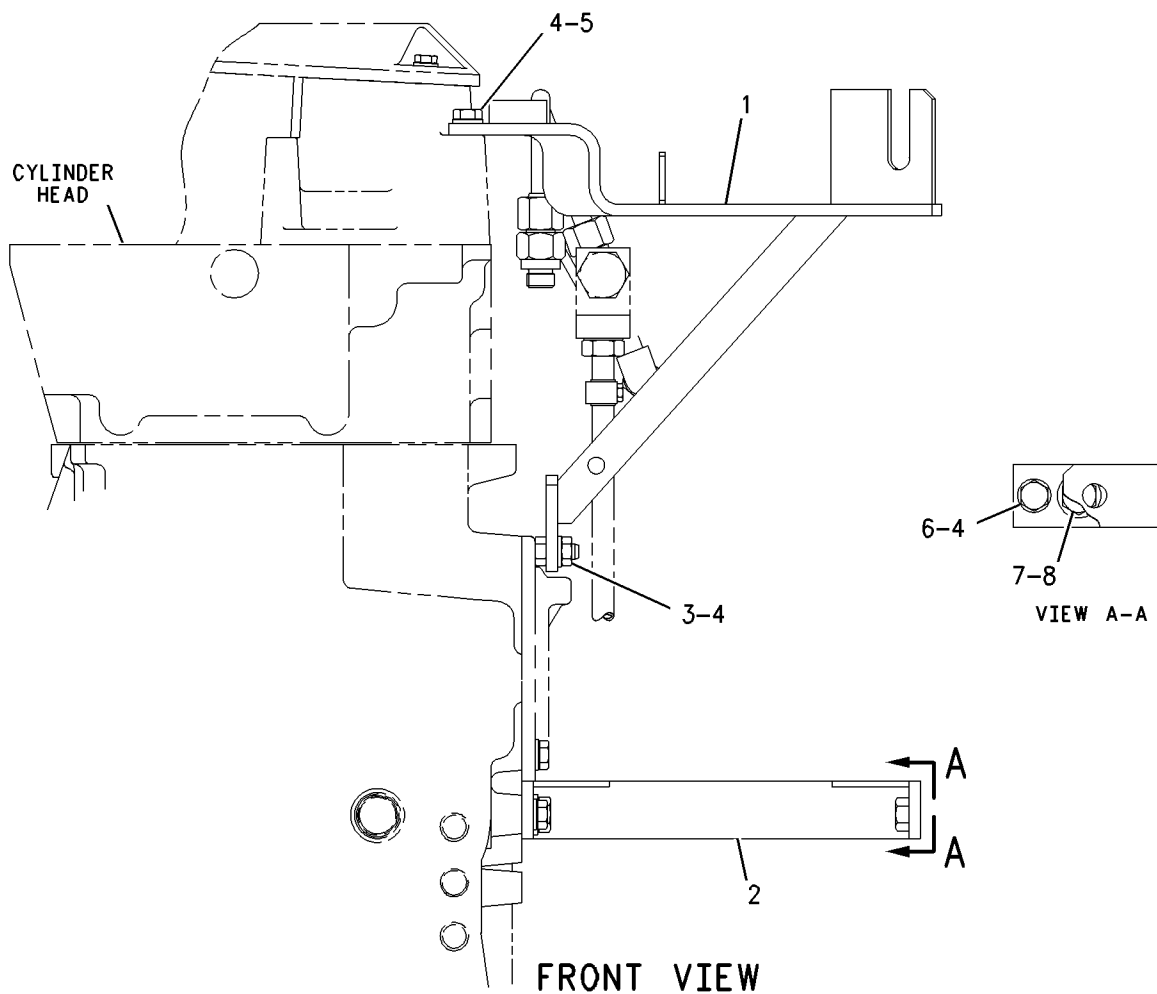
PART OF 197-8655 ENGINE AR-COMplete

SMCS-1265

i01364693

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2528	1	BRACKET AS						
	2	1	185-2527	1	SUPPORT AS						
M	3	1	5P-7970	2	NUT (M8X1.25 THD)						
	4	1	9M-1974	5	WASHER-HARD (2MM THK)						
M	5	1	6V-9804	2	BOLT (M8X75MM)						
M	6	1	6V-5217	1	BOLT (M8X1.25X20MM)						
M	7	1	6V-6317	1	BOLT (M10X1.5X20MM)						
	8	1	6V-5839	1	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00720263

FUEL SYSTEM

184-8370 TANK & MTG GP-FUEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

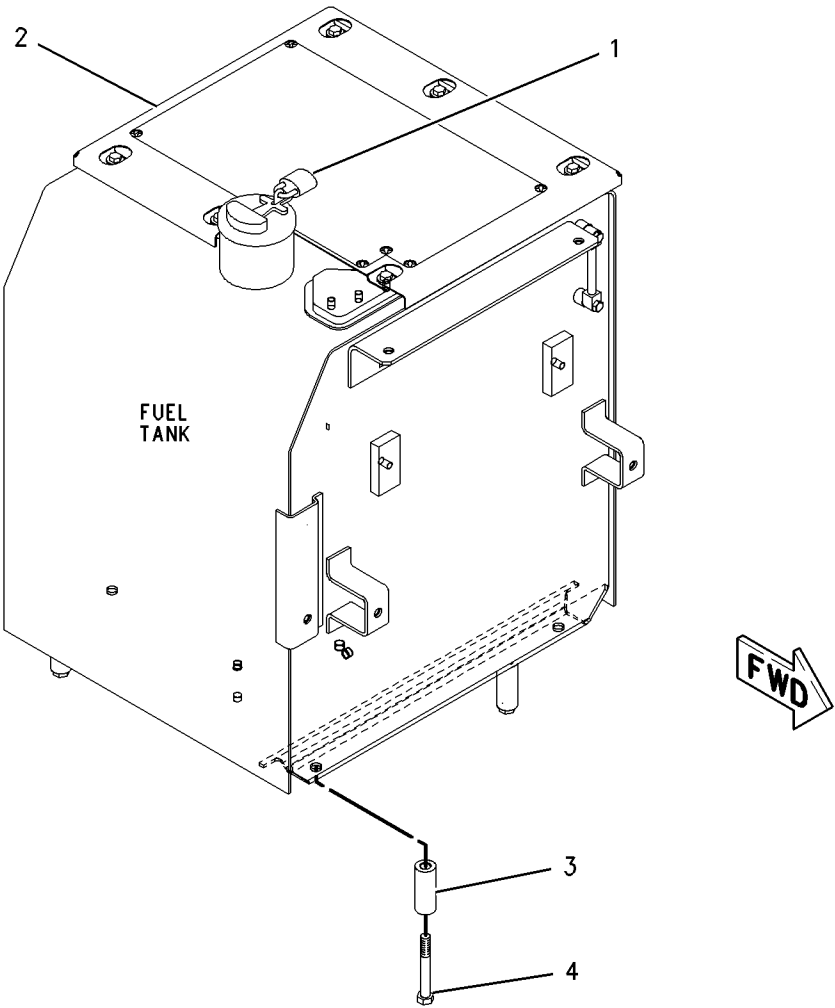
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1273

i01548726

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	5P-8502	1	PADLOCK GP						691
Y	2	1	184-8566	1	TANK GP-FUEL						116
	3	1	177-5886	4	SPACER						
M	4	1	8T-4174	4	BOLT (M16X2.0X120MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00795237

FUEL SYSTEM

184-8566 TANK GP-FUEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 184-8370 TANK & MTG GP-FUEL

SMCS-1273

i01546552

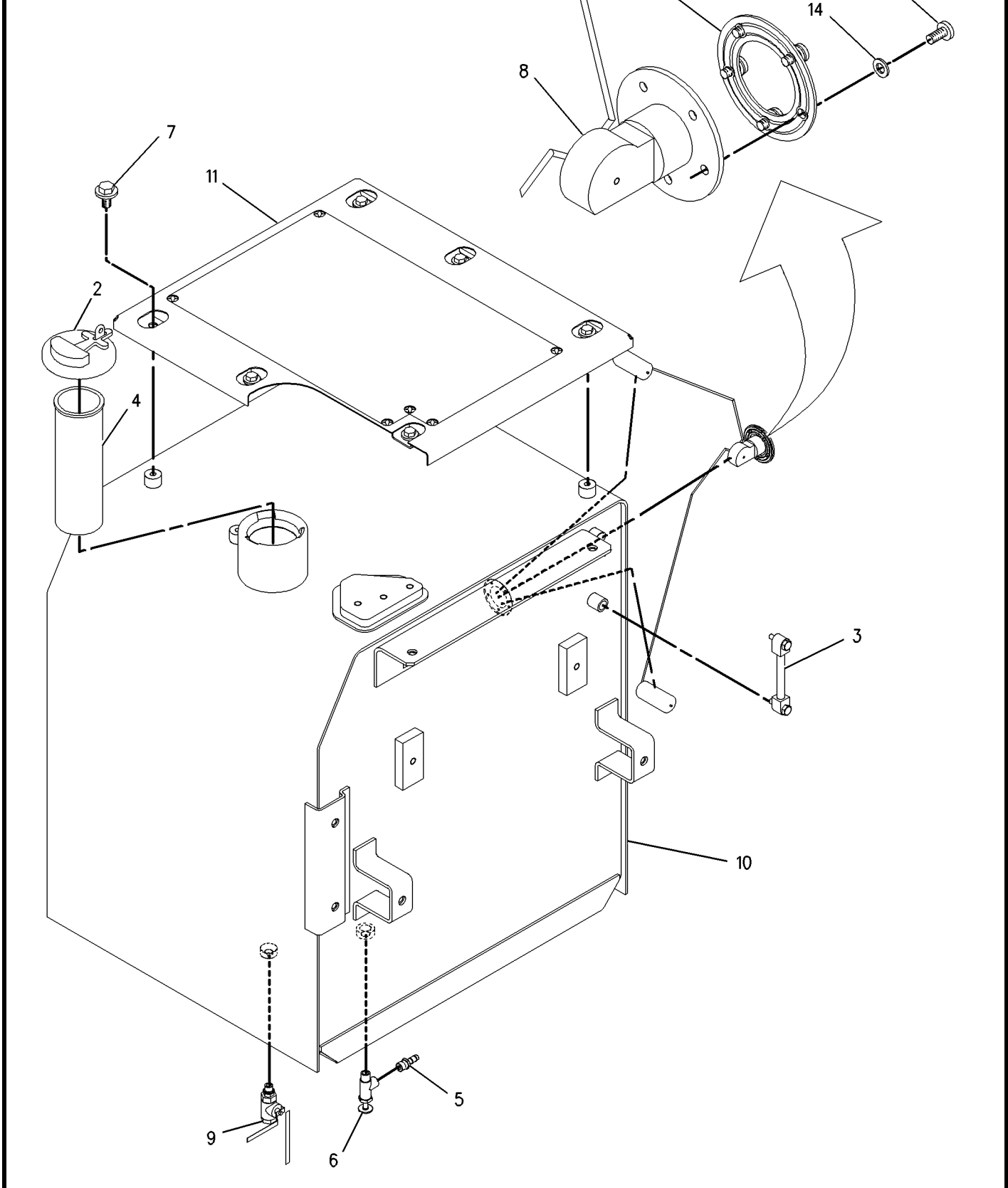
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-0378	1	PACKING						
	2	1	7X-7700	1	CAP AS-FUEL TANK						
		1	9X-2205	1	KIT-CAP FILTER (FUEL TANK)						
		1	9X-8600	1	SEAL-O-RING						
	3	1	7Y-2398	1	GAUGE AS						
		1	4I-0123	1	PIPE						
		1	7Y-4754	2	BLOCK						
M		1	094-3247	2	BOLT (M10X1.5X36MM)						
		1	095-1514	4	SEAL-O-RING						
		1	095-1517	4	SEAL-O-RING						
	4	1	9P-7121	1	STRAINER-FUEL						
	5	1	003-7764	1	END-HOSE						
	6	1	128-4411	1	VALVE AS						
	7	1	135-8573	6	BOLT AS-SPECIAL (M12)						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8T-4192	1	BOLT (M12X1.75X25MM)						
	8	1	163-6700	1	SENSOR GP-FUEL LEVEL						
		1	186-3735	2	PIN-CONNECTOR						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
	9	1	165-2881	1	VALVE-BALL						
	10	1	184-8567	1	TANK AS-FUEL						
	11	1	184-8568	1	COVER AS						
	12	1	193-9696	1	HOSE-DRAIN						
M	13	1	095-0736	5	SCREW-MACHINE (M5X0.8X10MM)						
	14	1	8T-0328	5	WASHER-HARD (5.5X10X1MM THK)						

M-METRIC PART

FUEL SYSTEM

184-8566 TANK GP-FUEL (contd.)	i01546552

1 13



GRAPHIC #1 g00779257

SEBP3275 **2 of 2** FUEL SYSTEM **117**

ELECTRICAL AND STARTING SYSTEM

183-1037 ALARM GP-TRAVEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

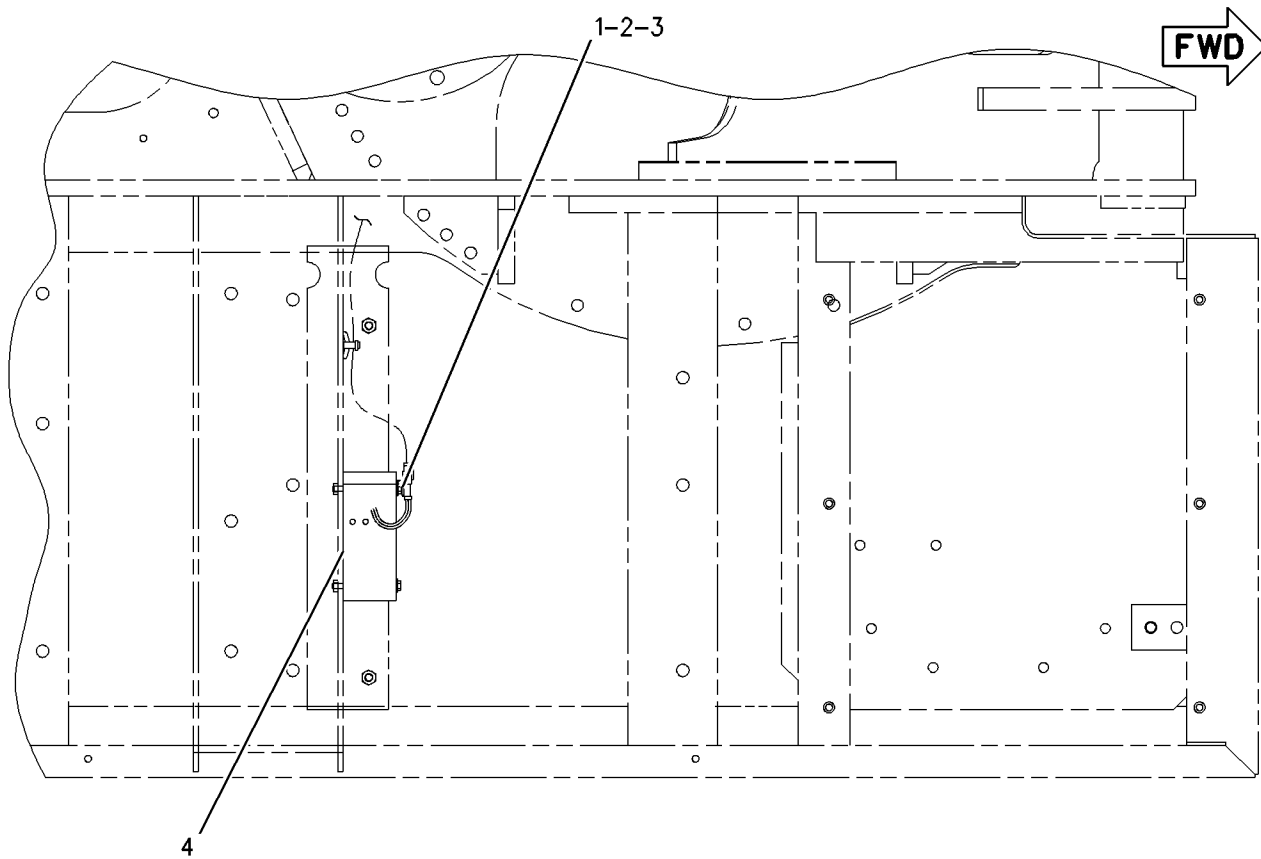
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7429

i01519372

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	7X-2538	2	BOLT (M8X1.25X100MM)						
	2	1	5P-4116	2	WASHER-HARD (8.8X20.5X2MM THK)						
	3	1	116-0118	1	CLIP						
	4	1	3E-7738	1	ALARM AS-BACKUP						
		1	3T-1815	1	ALARM-BACKUP						
		1	3E-7739	1	WIRE AS-BACKUP ALARM						

M-METRIC PART



TOP VIEW

GRAPHIC #1

g00788859

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

177-9953 ALTERNATOR GP-CHARGING

S/N: 55K8513-UP

PART OF 188-1727 ALTERNATOR GP-CHARGING

SMCS-1405

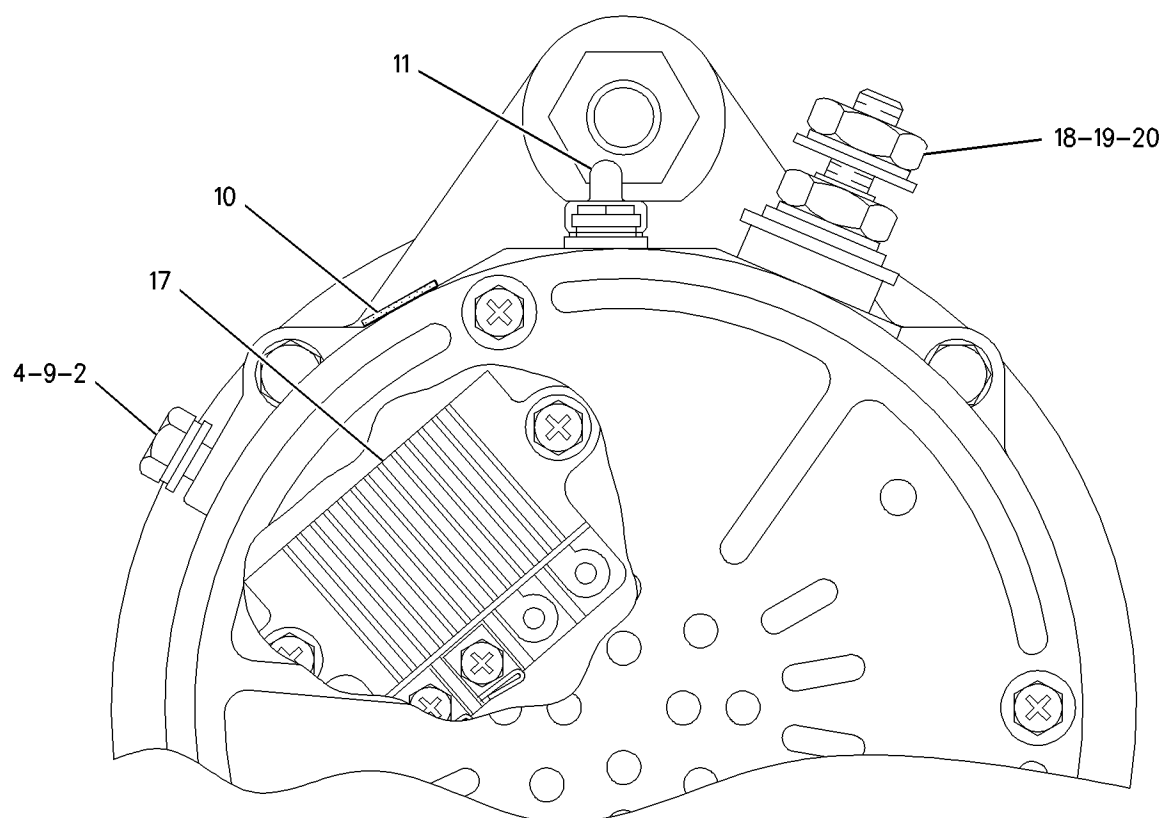
i01531014

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2653	1	FRAME						
	2	1	5S-7349	1	BOLT (1/4-20X0.5 IN)						
	3	1	185-2639	1	FAN AS						
	4	1	1H-3244	1	LOCKWASHER						
	5	1	185-2645	1	FRAME						
	6	1	2K-4821	1	LOCKNUT						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5MM THK)						
	8	1	185-2651	1	COVER						
	9	1	8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP						
	12	1	185-2643	1	STATOR AS						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS						
J	18	1	6V-8189	1	NUT (5/16-18 THD)						
J	19	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
J	20	1	3F-9556	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S) :						
J			199-7891	KIT-TERMINAL							
					(INCLUDES INSULATORS, WASHERS, NUT, STEP NUT)						
					185-2655						
					KIT-BEARING						
					(INCLUDES 3 BEARINGS)						
					199-8436						
					KIT-TERMINAL						
					(INCLUDES HOLDER AS, PLATE, INSULATOR, PIN, BOLT, GROMMET, NUT)						
					185-2658						
					KIT-HARDWARE						
					(INCLUDES BOLTS)						
J-KIT MARKED J AVAILABLE FOR PARTS MARKED J											

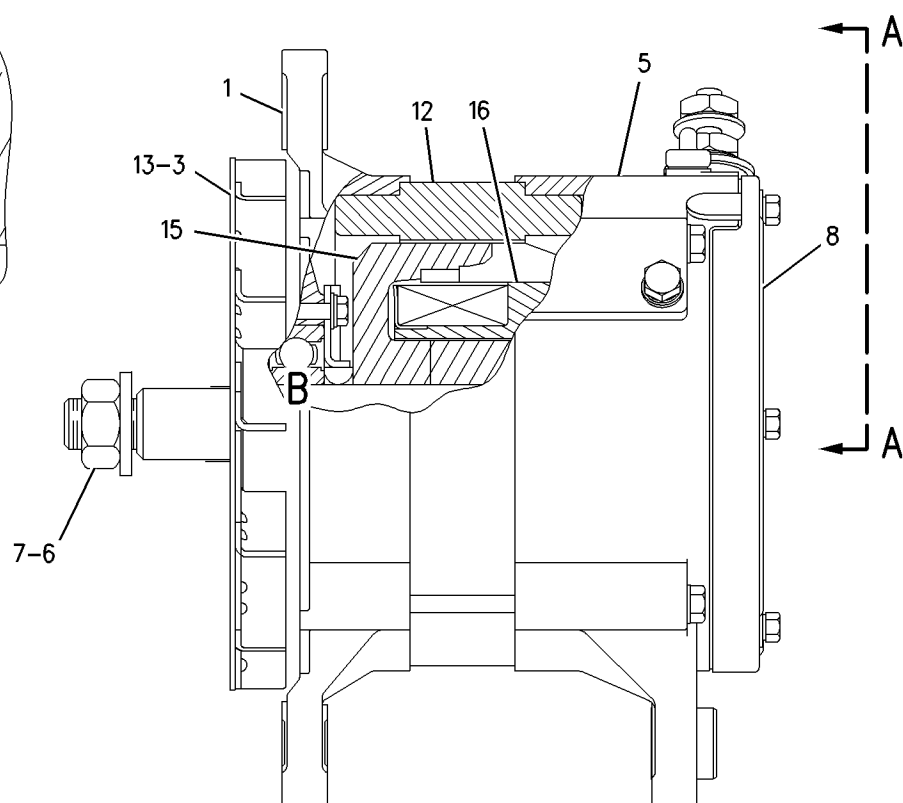
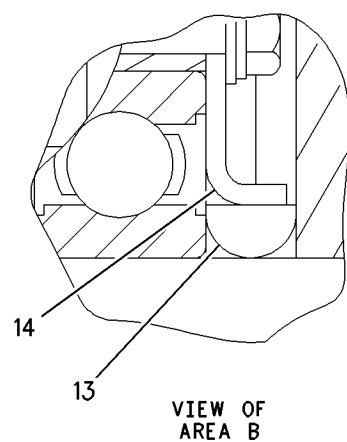
ELECTRICAL AND STARTING SYSTEM

177-9953 ALTERNATOR GP - CHARGING (contd.)

i01531014



VIEW A-A



GRAPHIC #1

g00795850

ELECTRICAL AND STARTING SYSTEM

188-1727 ALTERNATOR GP-CHARGING

S/N: 55K8513-UP

24 VOLT, 80 AMPERE

PART OF 197-8655 ENGINE AR-COMplete

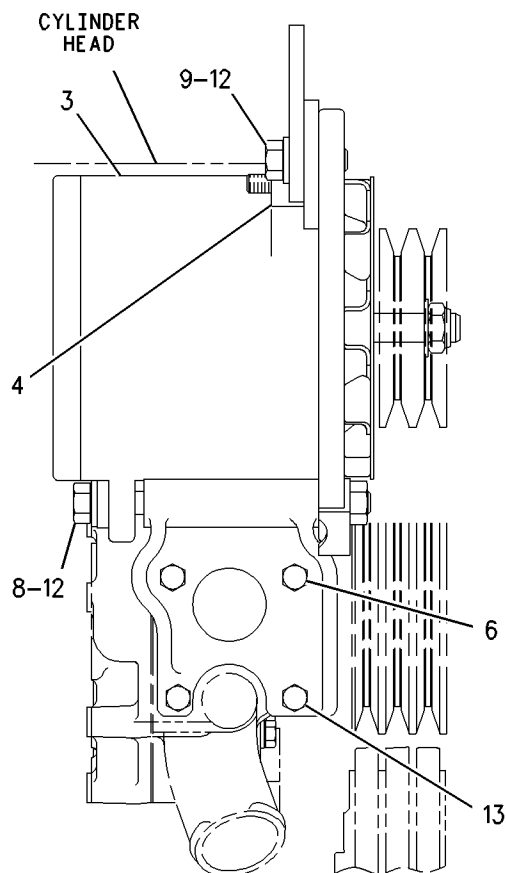
SMCS-1405

101530980

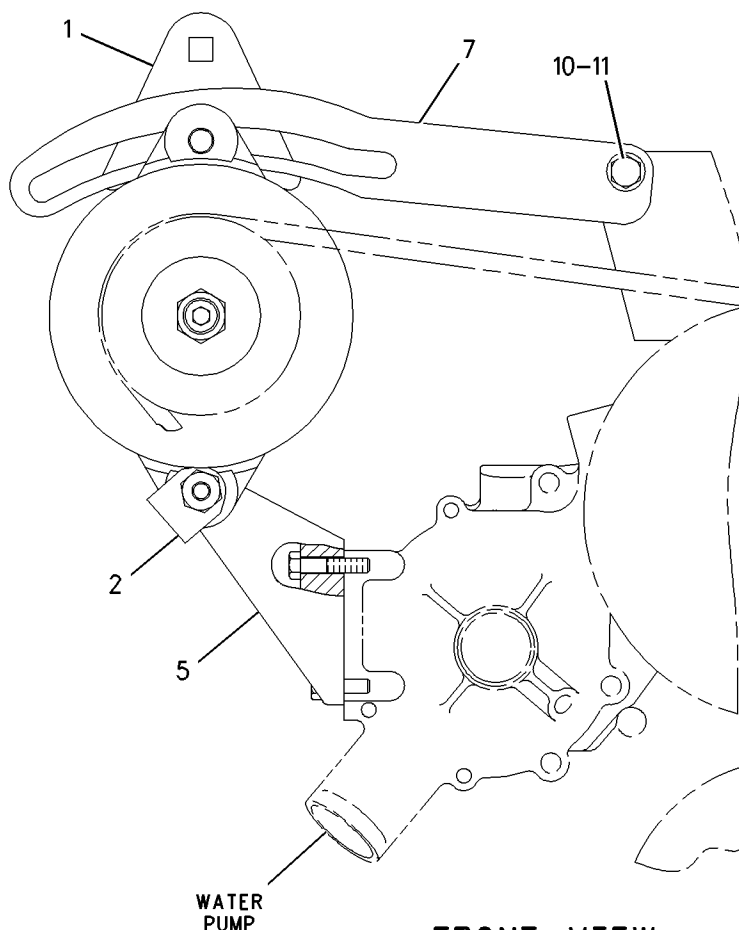
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	123-7700	1	PLATE	
	2	1	9S-1240	1	NUT AS	
		1	1F-0748	1	NUT-WELD (1/2-13 THD)	
Y	3	1	177-9953	1	ALTERNATOR GP-CHARGING	120
	4	1	5G-7817	1	BOSS	
	5	1	157-2296	1	BRACKET	
M	6	1	099-3649	2	BOLT (M8X1.25X40MM)	
	7	1	7C-1357	1	STRAP	
	8	1	7X-0338	1	BOLT (1/2-13X6 IN)	
	9	1	8C-4436	1	BOLT (1/2-13X1.375 IN)	
	10	1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)	
M	11	1	8T-4186	1	BOLT (M10X1.5X40MM)	
	12	1	8T-4223	2	WASHER-HARD (13.5X25.5X3MM THK)	
M	13	1	8T-4908	2	BOLT (M8X1.25X25MM)	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW



FRONT VIEW

GRAPHIC #1

g00795256

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

170-9357 BATTERY & WIRING GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

COLD WEATHER

PART OF 186-1311 STARTING AR-COLD WEATHER
AN ATTACHMENT

SMCS-1401, 1402

i01460702

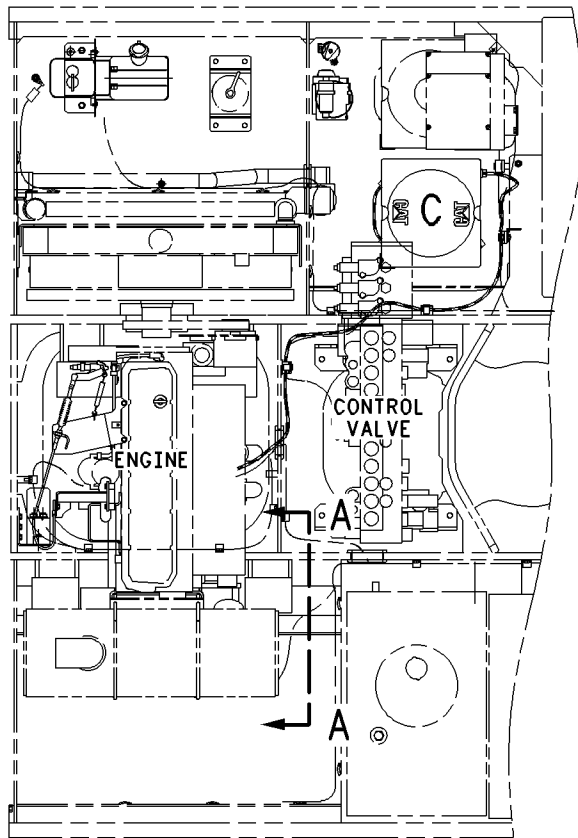
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6K-8178	4	CLIP						
	2	1	116-0080	1	CABLE AS (JUMPER)						
E		1	5P-0761		CABLE (00GA) (RED) (31CM)						
		1	7N-5274	1	COVER-TERMINAL (BLACK)						
		1	8N-1725	1	COVER-TERMINAL (RED)						
		1	3S-6050	1	TERMINAL AS-BATTERY (NEGATIVE)						
		1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
		1	3S-6049	1	TERMINAL AS-BATTERY (POSITIVE)						
		1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
	3	1	3T-5760	2	BATTERY (MAINTENANCE FREE) (12 VOLT)						
	4	1	6W-6005	1	HOLD-DOWN-BATTERY						
	5	1	5I-8270	1	COVER-BATTERY						
M	6	1	5C-7261	1	NUT (M8X1.25 THD)						
	7	1	5I-8304	1	ROD						
M	8	1	8T-4133	2	NUT (M10X1.5 THD)						
	9	1	8T-4226	1	WASHER-PLATED (10.5X45X3MM THK)						
	10	1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
	11	1	170-9331	1	CABLE AS						
					(NEGATIVE POST OF RIGHT BATTERY TO DISCONNECT SWITCH)						
		1	1S-7252	1	TERMINAL-RING (FOR 3/8IN BOLT)						
E		1	5P-0747		CABLE (00GA) (95CM)						
		1	7N-5274	1	COVER-TERMINAL (BLACK)						
		1	3S-6050	1	TERMINAL AS-BATTERY (NEGATIVE)						
		1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
12	1		9M-8406	1	CLIP						
13	1		186-4517	1	CABLE AS						
					(POSITIVE POST OF LEFT BATTERY TO STARTER)						
		1	1S-7251	1	TERMINAL-RING (FOR 1/2 IN BOLT)						
E		1	5P-0761		CABLE (00GA) (RED) (280CM)						
		1	8N-0869	1	COVER-TERMINAL (RED)						
		1	8N-1725	1	COVER-TERMINAL (RED)						
		1	3S-6049	1	TERMINAL AS-BATTERY (POSITIVE)						
		1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
14	1		186-4623	1	BRACKET						

E-ORDER BY THE CENTIMETER
M-METRIC PART

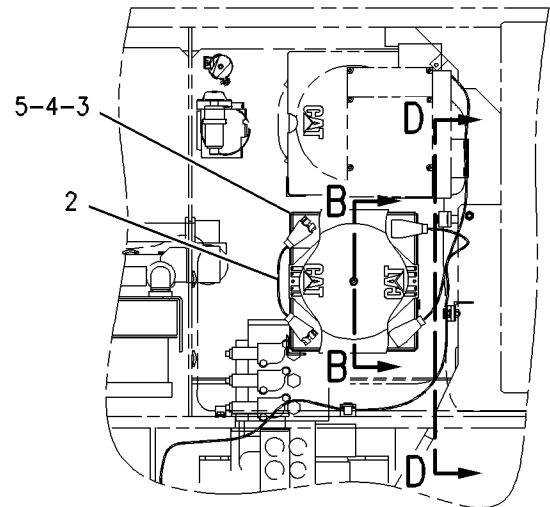
ELECTRICAL AND STARTING SYSTEM

170-9357 BATTERY & WIRING GP (contd.)

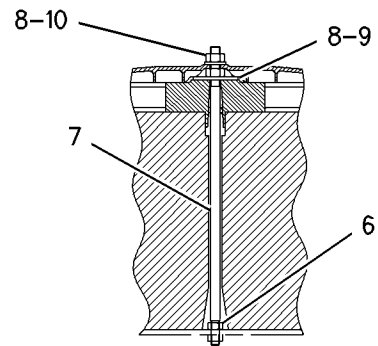
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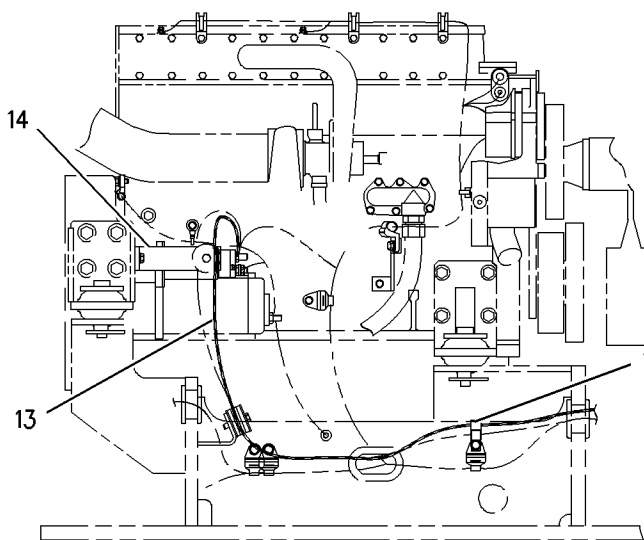
TOP VIEW



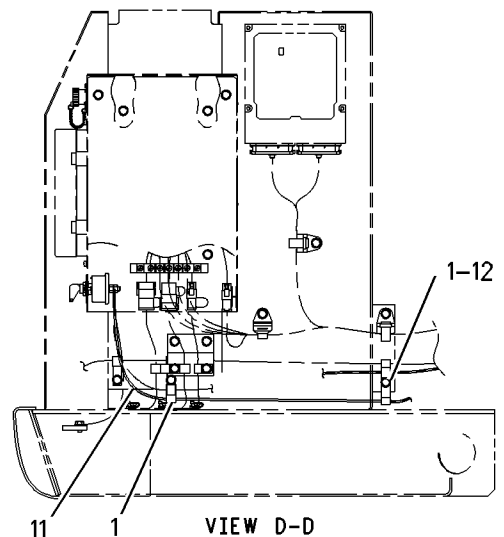
VIEW OF AREA C



SECTION B-B



VIEW A-A



VIEW D-D

GRAPHIC #1

g00763462

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1401, 1402

i01514763

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	3,5,6	111-4837	12	CLIP	
M	2	1,2,3, 4,5,6,7	8T-4137	48	BOLT (M10X1.5X20MM)	
	3	1,2,3, 4,5,6,7	8T-4121	77	WASHER-HARD (11X21X2.5MM THK)	
	4	2,3,5	9M-8406	4	CLIP	
	5	2	204-0867	1	HARNESS AS	
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		2	102-8803	1	KIT-RECEPTACLE (3 PIN)	
		2	102-8804	1	KIT-RECEPTACLE (4 PIN)	
		2	102-8805	1	KIT-RECEPTACLE (6 PIN)	
		2	102-8801	1	KIT-RECEPTACLE (12 PIN)	
		2	155-2265	1	KIT-CONNECTING PLUG (8 PIN)	
		2	155-2260	1	KIT-CONNECTING PLUG (3 PIN)	
		2	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
		2	155-2271	1	KIT-CONNECTING PLUG (4 PIN)	
		2	155-2274	1	KIT-CONNECTING PLUG (6 PIN)	
	6	2,3,5,6	111-4838	12	CLIP	
	7	2,3,5,6	111-4839	12	STRAP	
B	8	1,3,4, 5,6,7	3S-2093	36	STRAP-CABLE	
M	9	3,6	8T-4189	4	BOLT (M8X1.25X20MM)	
M	10	1,2,4, 5,7	8T-4191	9	BOLT (M10X1.5X16MM)	
	11	1	4D-8123	2	CLIP	
	12	3,6	5P-4116	6	WASHER-HARD (8.8X20.5X2MM THK)	
	13	5,6	2G-8767	2	WASHER (10.5X60X3MM THK)	
	14	1	170-9360	1	GROMMET	
	15	2	7G-1060	2	STRAP AS-GROUND	
	16	5	3T-5760	2	BATTERY (MAINTENANCE FREE) (12 VOLT)	
	17	5	6W-6005	1	HOLD-DOWN-BATTERY	
	18	5	5I-8270	1	COVER-BATTERY	
	19	5	163-6775	1	CABLE AS	
		5	1S-7252	1	TERMINAL-RING (FOR 3/8 IN BOLT)	
E		5	5P-0747		CABLE (00GA) (BLACK) (64CM)	
		5	7N-5274	1	COVER-TERMINAL (BLACK)	
		5	9G-8909	1	COVER-TERMINAL (BLACK)	
		5	3S-6050	1	TERMINAL AS-BATTERY (NEGATIVE)	
		5	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)	
		5	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)	
	20	5,6	6G-2256	2	CLAMP	
	21	5	116-0080	1	CABLE AS (JUMPER)	
E		5	5P-0761		CABLE (00GA) (RED) (31CM)	
		5	7N-5274	1	COVER-TERMINAL (BLACK)	
		5	8N-1725	1	COVER-TERMINAL (RED)	
		5	8L-8413	1	STRAP-CABLE	
		5	3S-6050	1	TERMINAL AS-BATTERY (NEGATIVE)	
		5	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)	
		5	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)	
		5	3S-6049	1	TERMINAL AS-BATTERY (POSITIVE)	
		5	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)	
		5	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)	
	22	5	6K-8178	3	CLIP	
Y	23	5	205-1885	1	PANEL GP-CIRCUIT BREAKER	150
M	24	2,5,6	8T-4136	7	BOLT (M10X1.5X25MM)	
M	25	5	7X-2543	1	BOLT (M10X1.5X120MM)	
	26	5	133-3260	3	SPACER (10.0MM)	

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

i01514763

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	27	5	167-3583	1	STRAP AS-GROUND	
M	28	2,3,7	7X-2621	10	BOLT (M10X1.50X12MM)	
	29	1,2,3,5,6,7	116-0118	19	CLIP	
	30	1,2,3,4,5,6,7	111-4836	23	CLIP	
	31	2	186-4574	1	PLUG AS	
		2	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
	32	2	205-6059	1	HARNESS AS	
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		2	102-8804	1	KIT-RECEPTACLE (4 PIN)	
		2	102-8805	1	KIT-RECEPTACLE (6 PIN)	
		2	102-8801	1	KIT-RECEPTACLE (12 PIN)	
		2	155-2255	1	KIT-CONNECTING PLUG (12 PIN)	
		2	155-2260	1	KIT-CONNECTING PLUG (3 PIN)	
		2	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
		2	155-2271	1	KIT-CONNECTING PLUG (4 PIN)	
		2	155-2274	1	KIT-CONNECTING PLUG (6 PIN)	
	33	5	8M-2773	2	CLIP	
M	34	3,5,6	8T-4195	6	BOLT (M10X1.5X30MM)	
	35	6	163-6786	1	BRACKET	
M	36	6	5C-7883	4	BOLT-SOCKET HEAD (M6X1.0X16MM)	
	37	6	9X-8256	4	WASHER (6.6X12X2MM THK)	
	38	5	163-6779	1	BRACKET AS	
M		5	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	39	3,4,6	7K-1181	6	STRAP-CABLE	
M	40	5	5C-7261	1	NUT (M8X1.25 THD)	
	41	5	8T-4226	1	WASHER-PLATED (10.5X45X3MM THK)	
M	42	3,5	8T-4133	3	NUT (M10X1.5 THD)	
	43	5	5I-8304	1	ROD	
	44	5,6	6G-2263	2	SPACER (10.5X19X28.5MM THK)	
	45	5	116-0068	1	BRACKET	
	46	5	163-6750	1	HARNESS AS	
		5	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
	47	3	085-7329	2	SPACER	
M	48	3	8T-6912	2	BOLT (M8X1.25X50MM)	
	49	3	186-4516	1	HARNESS AS	
		3	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		3	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		3	102-8805	1	KIT-RECEPTACLE (6 PIN)	
		3	155-2260	1	KIT-CONNECTING PLUG (3 PIN)	
		3	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
	50	3	102-7880	1	BRACKET	
	51	3	8D-0482	1	GROMMET	
	52	7	170-9336	1	BRACKET AS	
	53	3	128-8928	1	BRACKET AS	
M		3	8T-3490	1	NUT-WELD (M10X1.5 THD)	
	54	2	4I-5106	1	GROMMET	
	55	2	4I-6039	1	GROMMET	
	56	1	5I-4366	1	GROMMET	
	57	3	183-1036	1	CABLE AS	
		3	1S-7251	1	TERMINAL-RING (FOR 1/2 IN BOLT)	
E		3	5P-0761		CABLE (00GA) (RED) (320CM)	
		3	8N-0869	1	COVER-TERMINAL (RED)	
		3	8N-1725	1	COVER-TERMINAL (RED)	
		3	3S-6049	1	TERMINAL AS-BATTERY (POSITIVE)	
		3	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)	
		3	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)	
	58	3	128-8886	1	STRAP AS-GROUND	
	59	5	093-2068	1	GROMMET	

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

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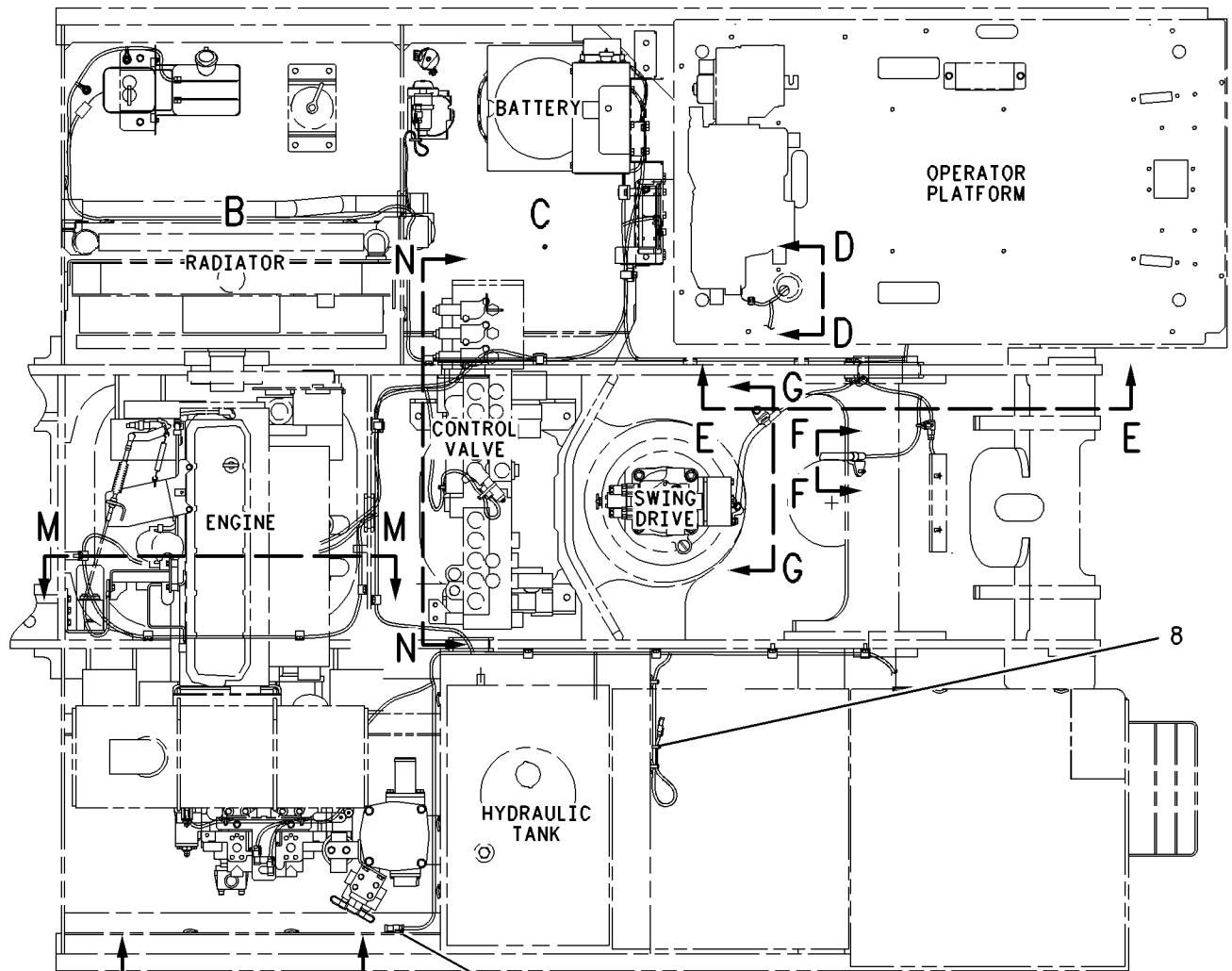
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	60	7	3E-8320	1	PLATE-INSTRUCTION (BATTERY)	
	61	6	7Y-8109	1	BRACKET AS	
M		6	8T-3490	1	NUT-WELD (M10X1.5 THD)	
	62	3	124-1718	1	SLEEVE	
M	63	5,6	8T-4185	2	BOLT (M10X1.5X50MM)	
M	64	3	8T-4172	1	BOLT (M10X1.50X80MM)	
	65	4	186-4548	1	CABLE AS	
	66	4	096-3872	1	GROMMET	

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER
M-METRIC PART
Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

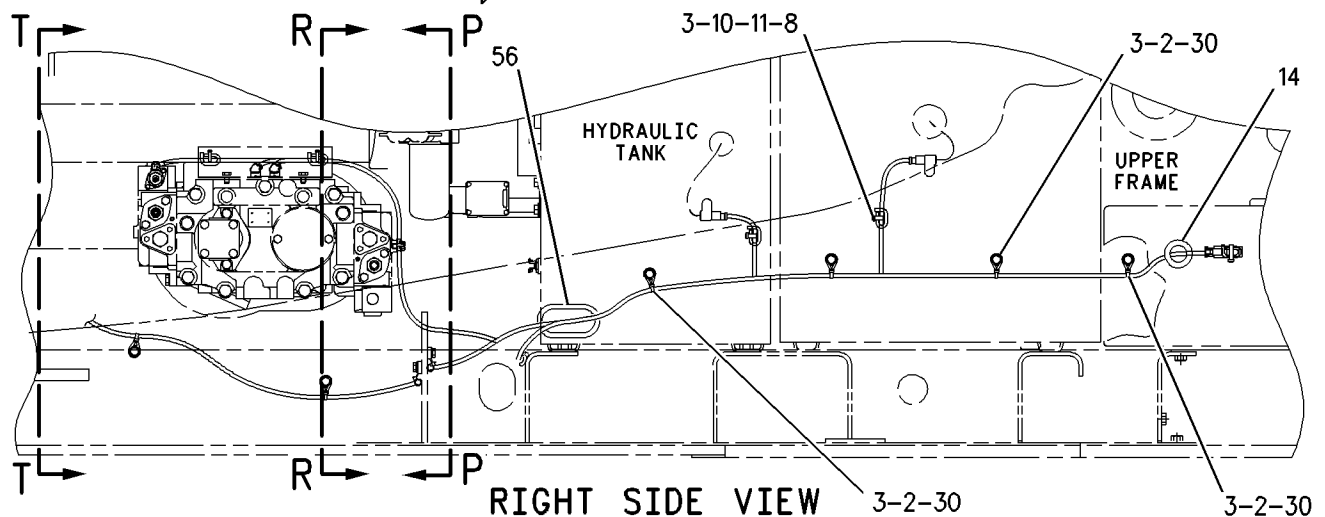
192-2325 BATTERY & WIRING GP (contd.)

101514763



2-3-29
TOP VIEW

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



RIGHT SIDE VIEW

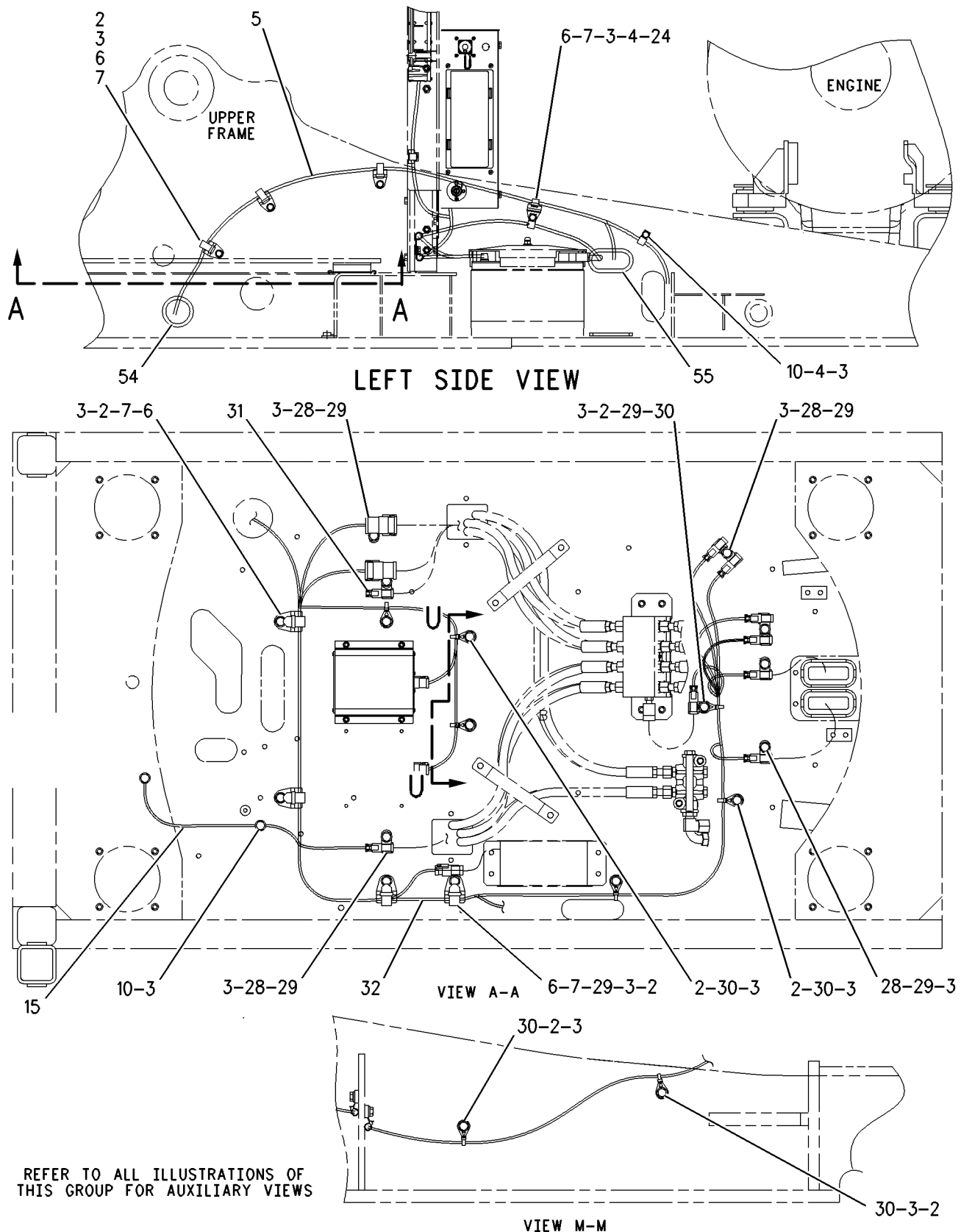
GRAPHIC #1

g00794940

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

101514763



GRAPHIC #2

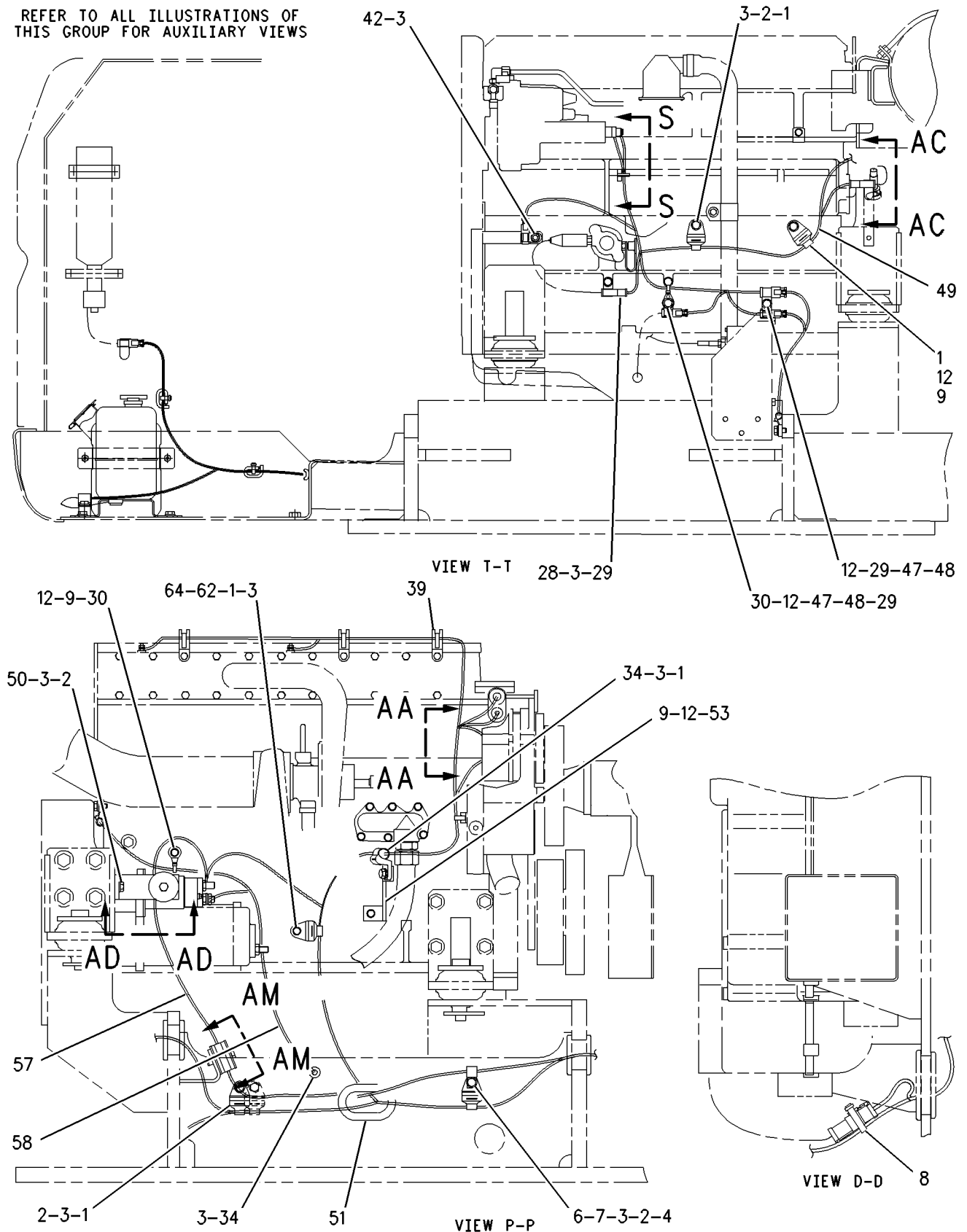
g00794941

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

i01514763

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



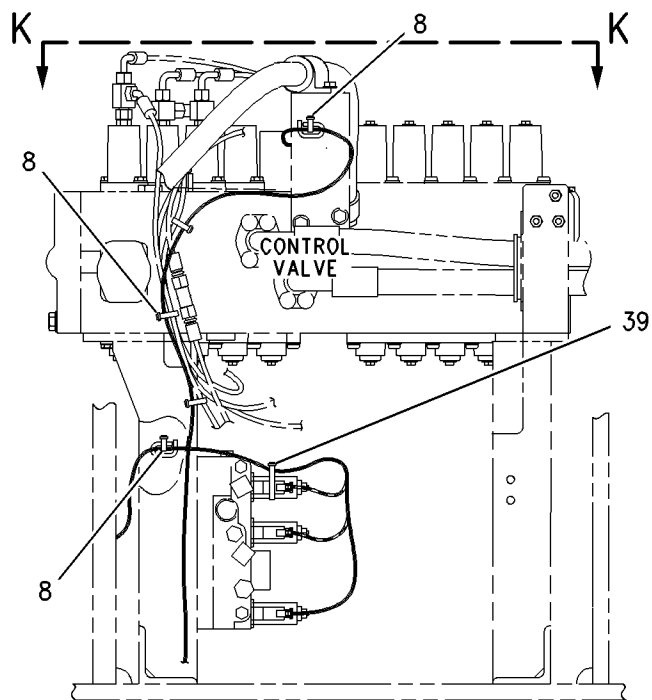
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g00794942

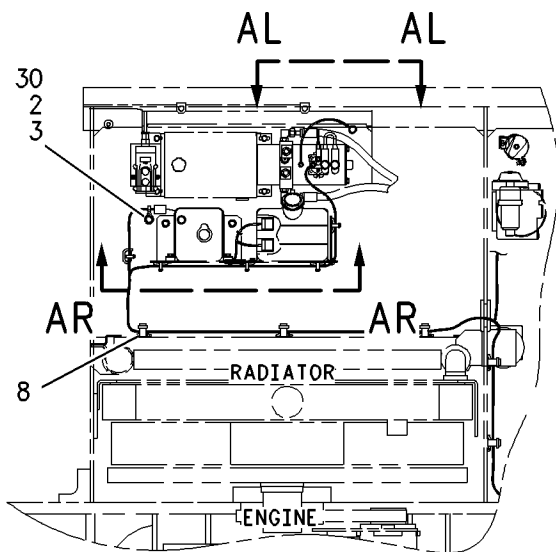
ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

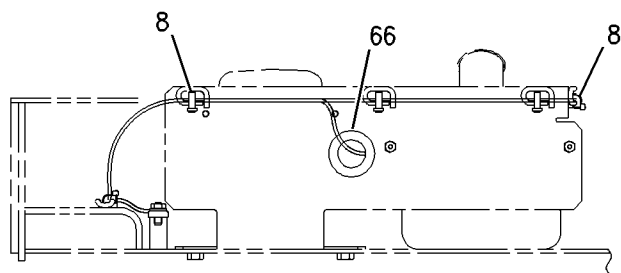
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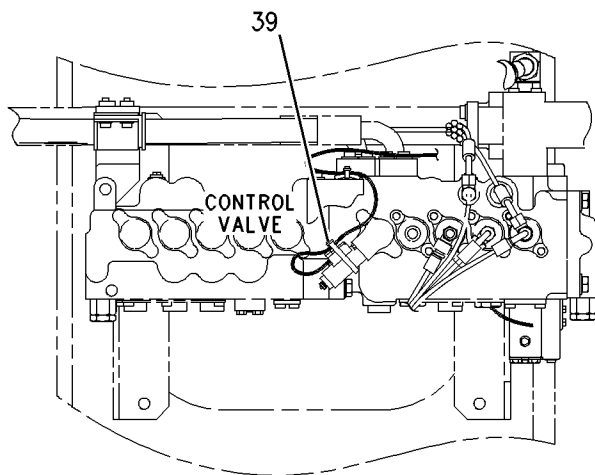
VIEW N-N



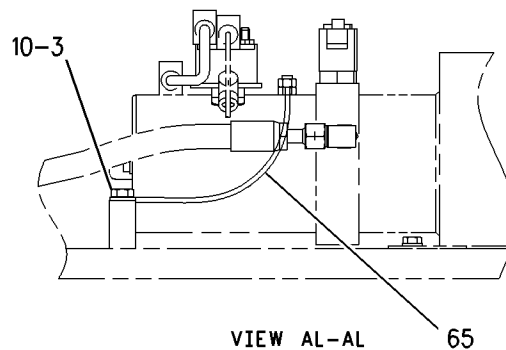
VIEW OF AREA B



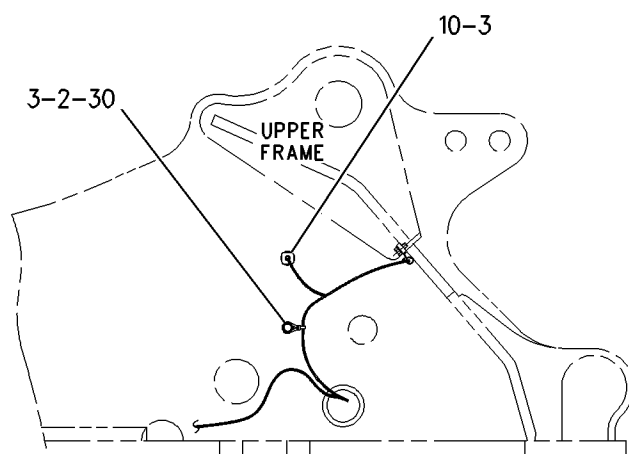
VIEW AR-AR



VIEW K-K



VIEW AL-AL



VIEW E-E

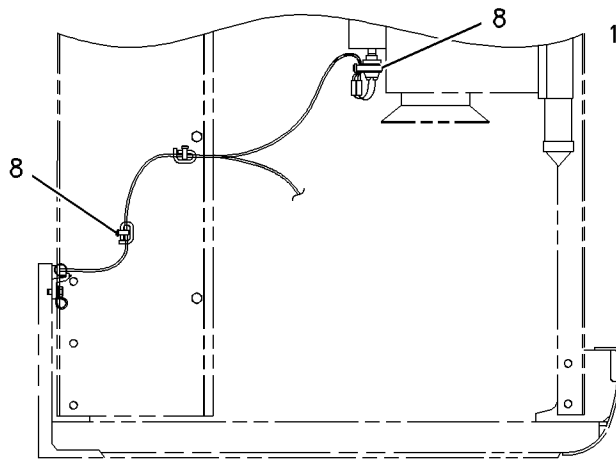
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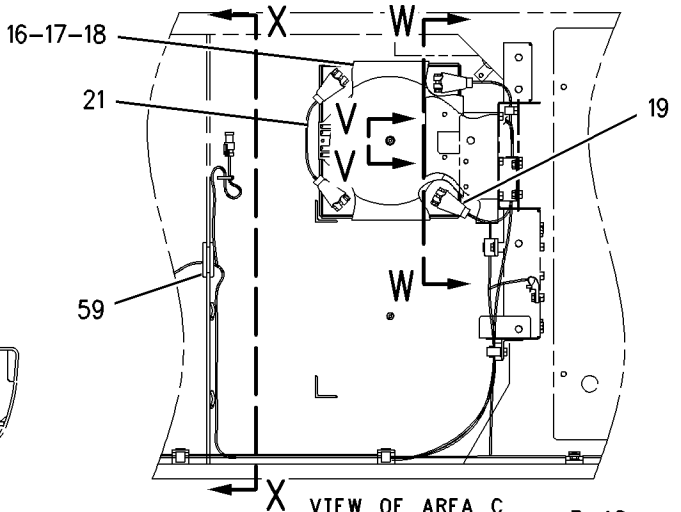
ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

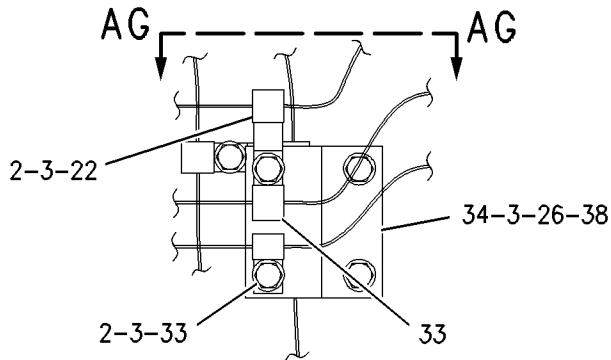
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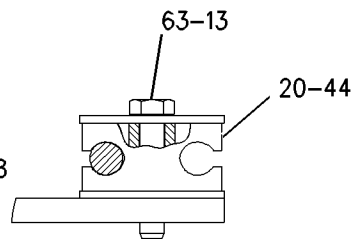
VIEW X-X



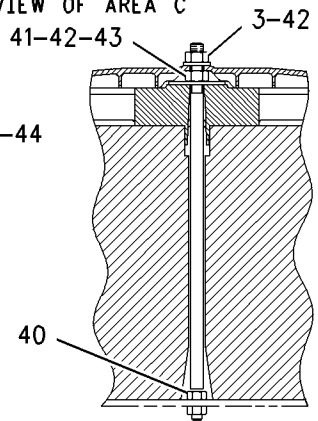
VIEW OF AREA C
41-42-43



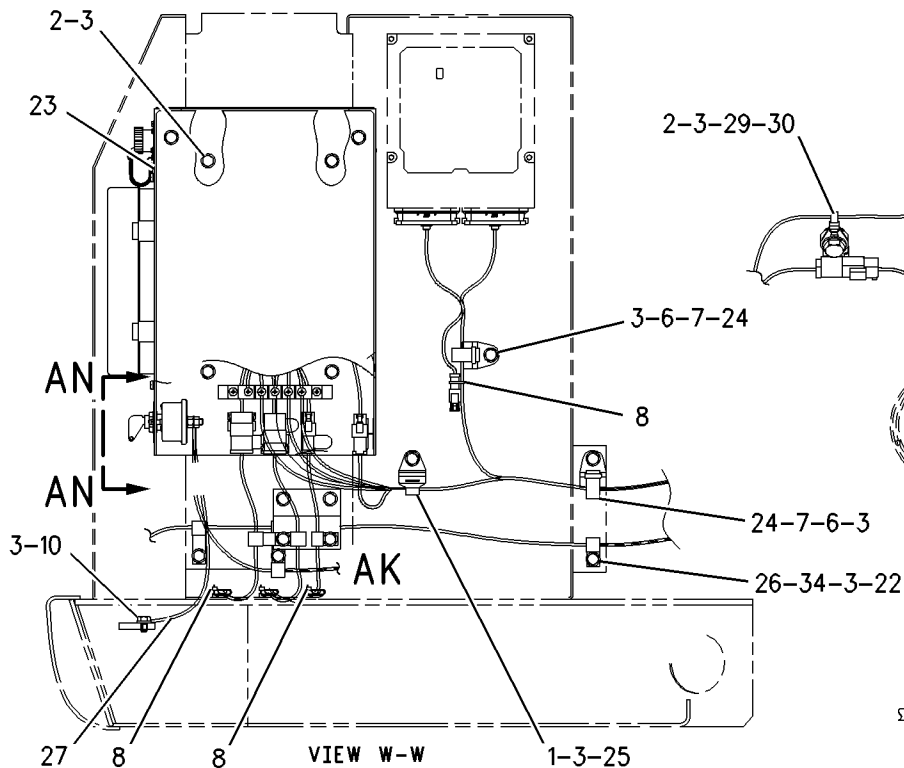
VIEW OF AREA AK



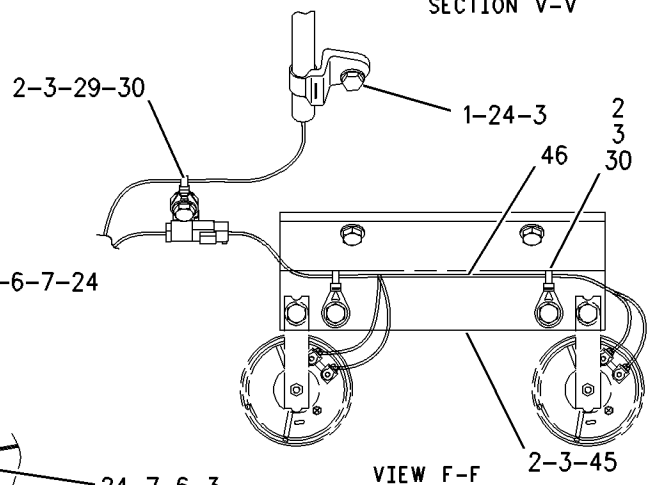
SECTION AD-AD



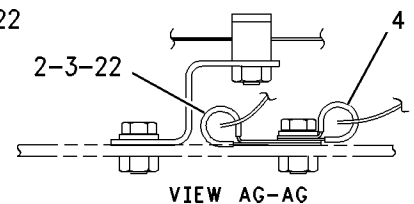
SECTION V-V



VIEW W-W



VIEW F-F



VIEW AG-AG

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

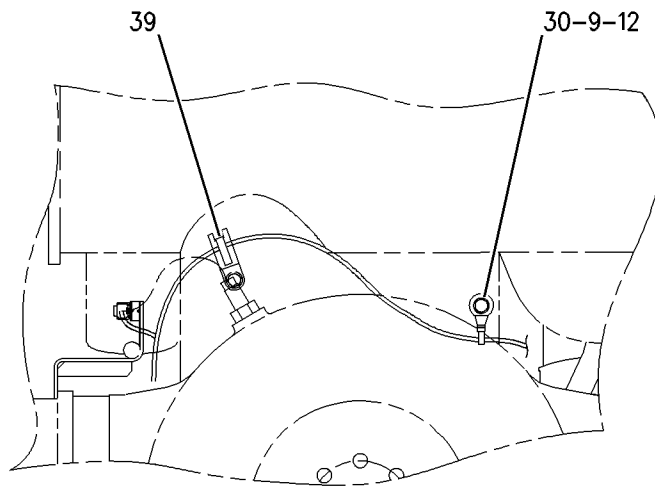
GRAPHIC #5

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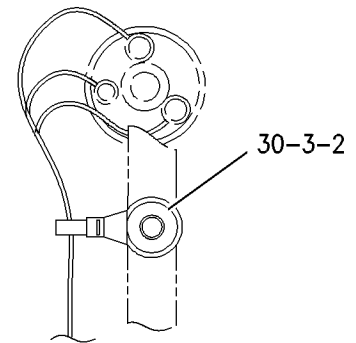
ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

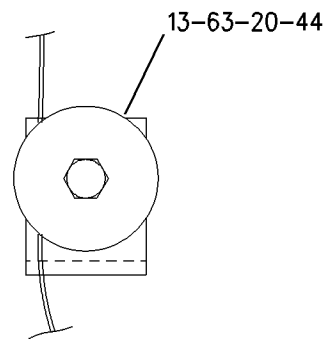
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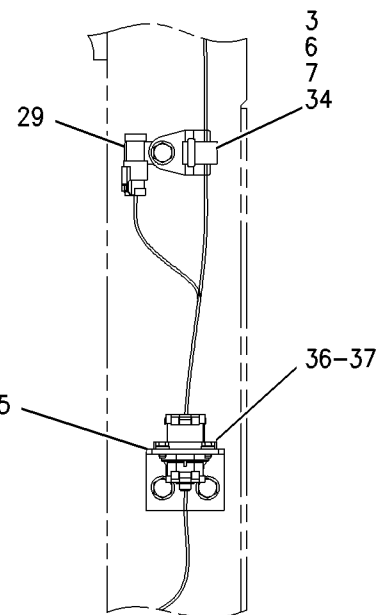
VIEW AC-AC



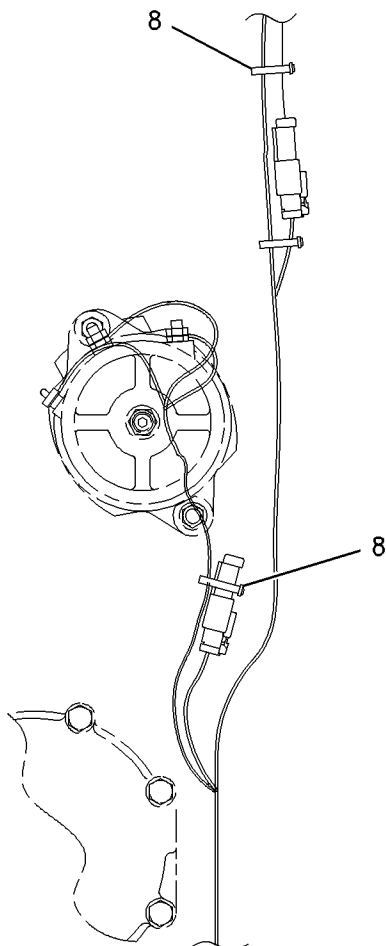
VIEW S-S



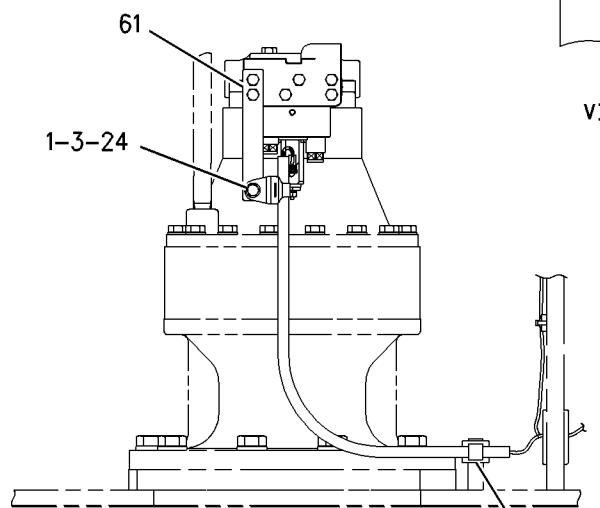
VIEW AM-AM



VIEW U-U



VIEW AA-AA



VIEW G-G

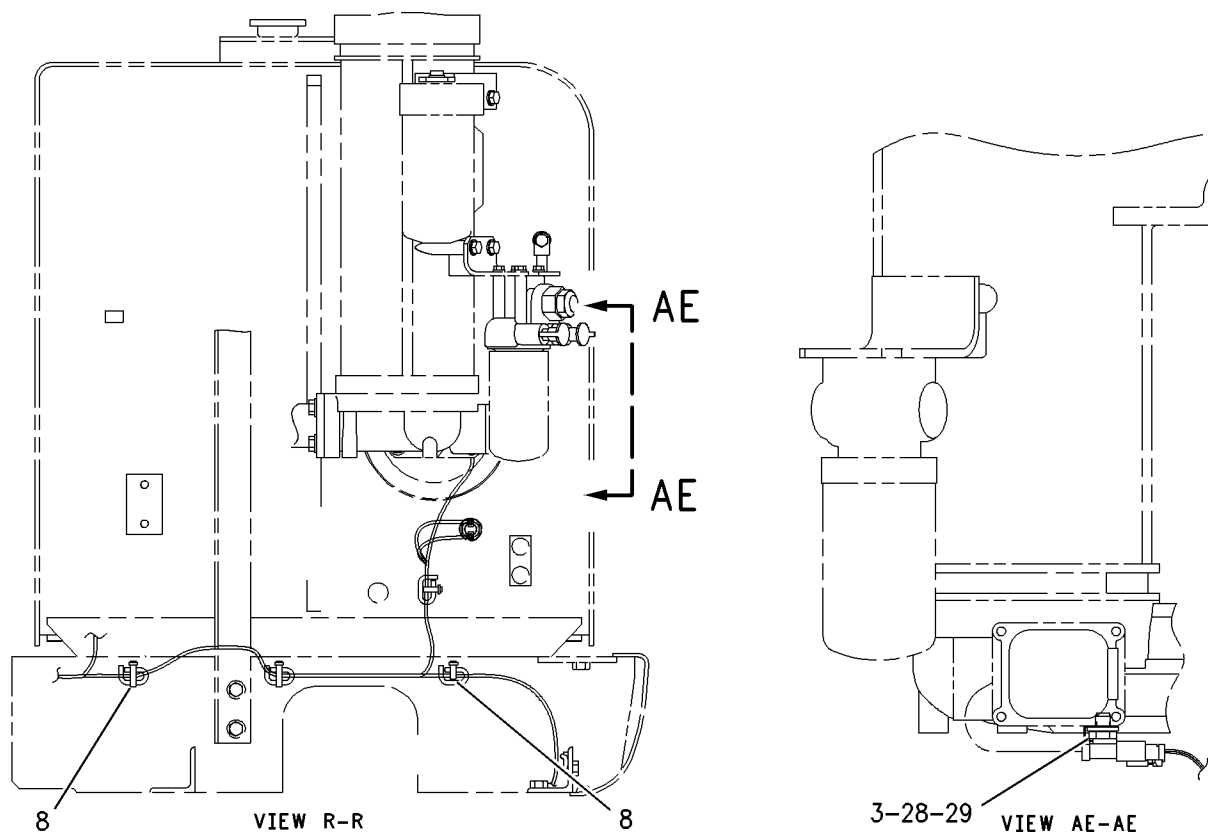
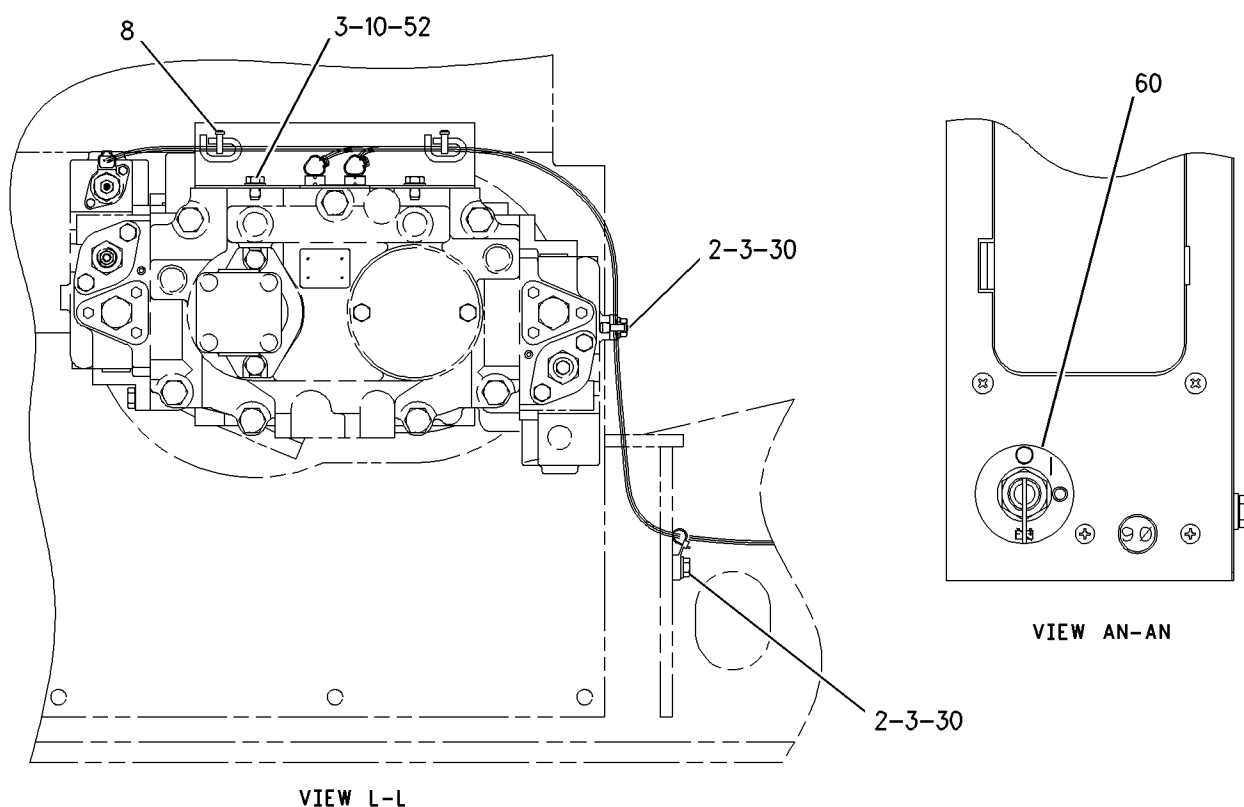
GRAPHIC #6

g00794939

ELECTRICAL AND STARTING SYSTEM

192-2325 BATTERY & WIRING GP (contd.)

i01514763



GRAPHIC #7

g00794937

ELECTRICAL AND STARTING SYSTEM

157-3164 CONTROL & MTG GP-MACHINE

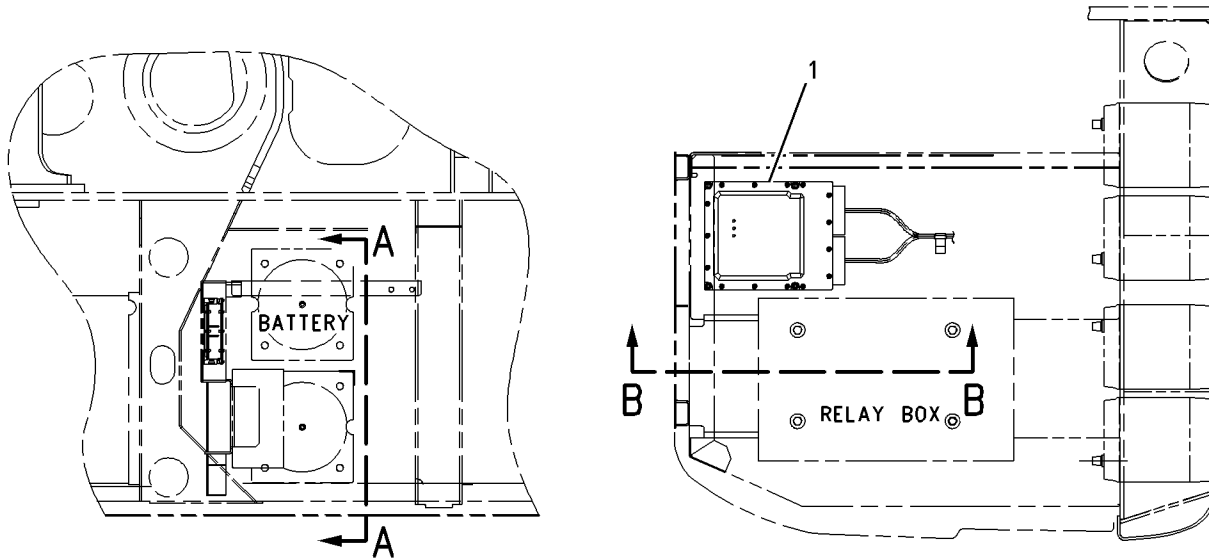
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

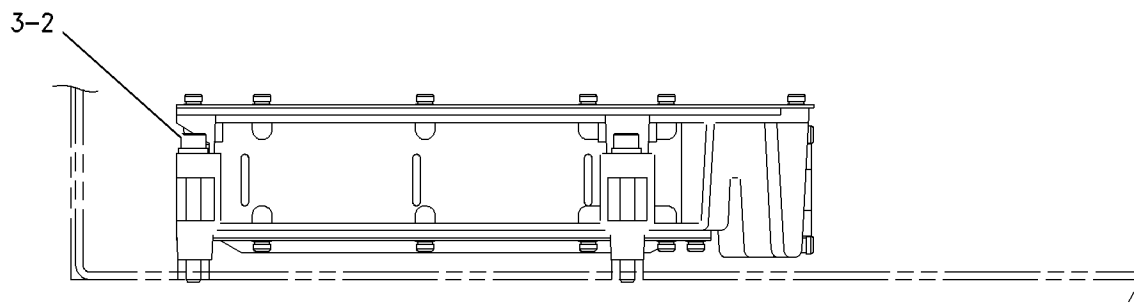
SMCS-7600

i01508070

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-8921	1	CONTROL GP-MACHINE (ENGINE & HYDRAULIC)						
M	2	1	095-0645	4	BOLT-SOCKET HEAD (M6X1.00X55MM)						
	3	1	9X-8256	4	WASHER (6.6X12X2MM THK)						
M-METRIC PART											



VIEW A-A



VIEW B-B

GRAPHIC #1

g00681492

ELECTRICAL AND STARTING SYSTEM

177-7654 ELECTRONICS GP-MACHINE

S/N: BPH1-UP

PART OF 192-2311 GENERAL AR

SMCS-7610

i01512499

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	134-3379	1	FILM-INFORMATION						
	195-8920	1	SOFTWARE GP-MACHINE						

ELECTRICAL AND STARTING SYSTEM

201-1777 FASTENER GP-WIRING HARNESS

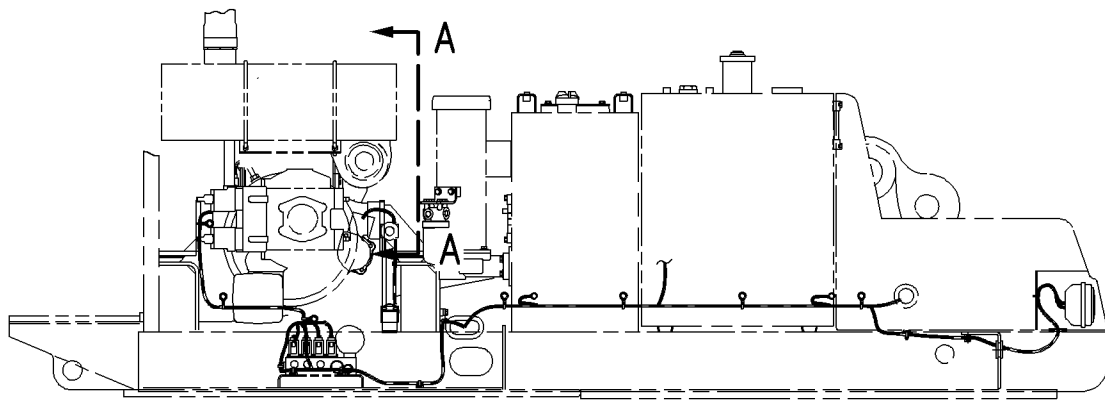
S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMplete

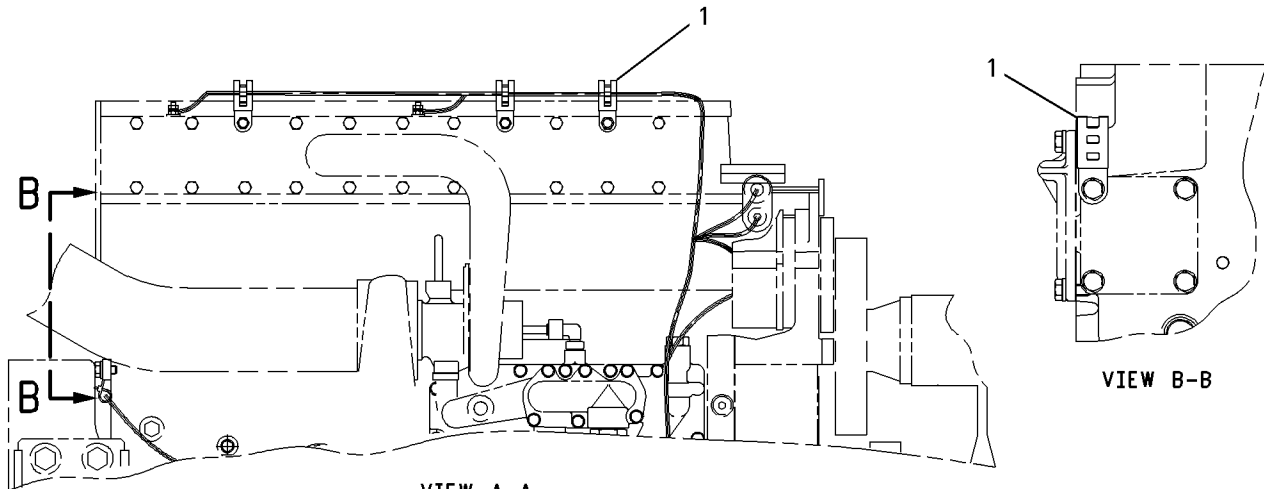
SMCS-1408, 7553

i01488720

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-7581	4	CLIP						



RIGHT SIDE VIEW



VIEW A-A

VIEW B-B

GRAPHIC #1

g00773567

ELECTRICAL AND STARTING SYSTEM

134-2356 HEATER GP-AIR INLET

S/N: 55K8513-UP

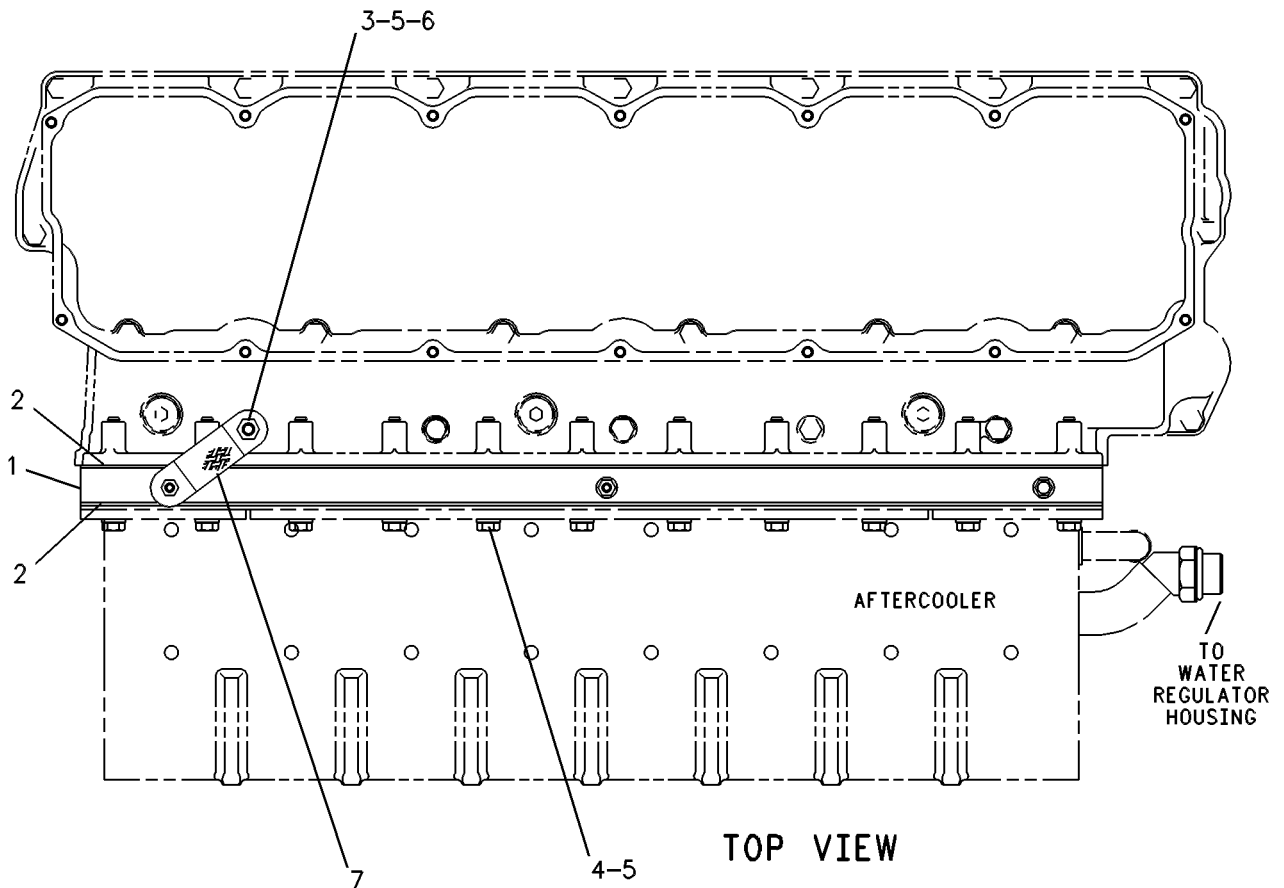
PART OF 197-8655 ENGINE AR-COMplete

SMCS-1090

i01340776

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	107-9652	1	HEATER AS						
M		1	5C-2890	2	NUT (M6X1 THD)						
	2	1	7C-1152	2	GASKET						
M	3	1	129-3179	1	STUD-BOLT (M8X1.25X130MM OAL)						
M	4	1	5P-8347	22	BOLT (M8X1.25X70MM)						
	5	1	9M-1974	24	WASHER-HARD (2MM THK)						
M	6	1	5P-7970	1	NUT (M8X1.25 THD)						
	7	1	108-5747	1	STRAP-GROUNDING						

M-METRIC PART



GRAPHIC #1

g00117654

ELECTRICAL AND STARTING SYSTEM

5I-8250 LAMP GP-FLOOD

S/N: BPH1-UP; CAM1-UP

24 VOLT, VERTICAL

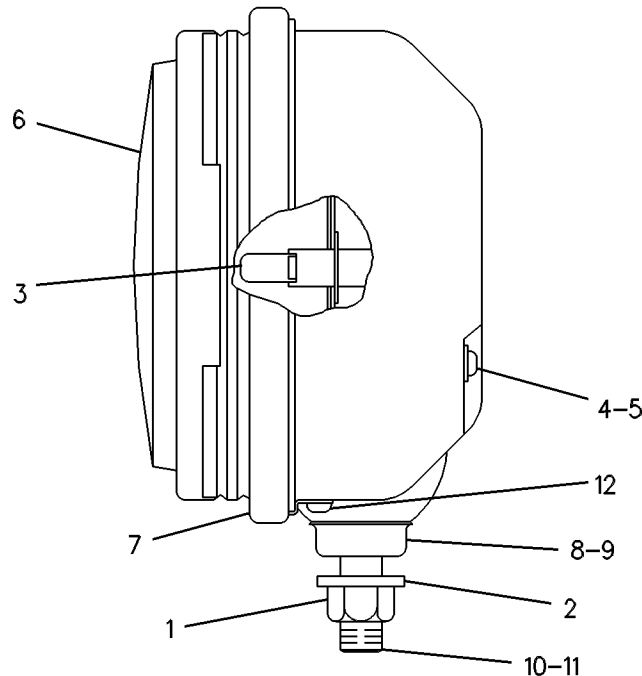
PART OF 116-0184, 116-0189 LIGHTING GP-BOOM
AN ATTACHMENT

SMCS-1434

i01321244

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	9X-8488	1	NUT-HEX THIN (M12X1.5 THD)						
	2	1	8T-4223	1	WASHER-HARD (3MM THK)						
	3	1	9X-3463	1	LAMP (24 VOLT) (65 WATT)						
M	4	1	6V-5210	2	SCREW-MACHINE (M4X0.7 THD)						
	5	1	3B-4501	2	LOCKWASHER (NO.8)						
	6	1	106-0001	1	LENS AS						
	7	1	106-0002	1	BAND						
	8	1	106-0003	1	RING-RUBBER						
	9	1	106-0004	1	RING-FITTING						
	10	1	106-0005	1	SEAT						
M	11	1	145-0556	1	BOLT-FLAT HEAD						
M	12	1	7Y-5288	2	SCREW-PAN HEAD						

M-METRIC PART



GRAPHIC #1

g00109136

ELECTRICAL AND STARTING SYSTEM

112-9378 LAMP GP-FL00D

S/N: BPH1-UP; CAM1-UP; CBY1-UP

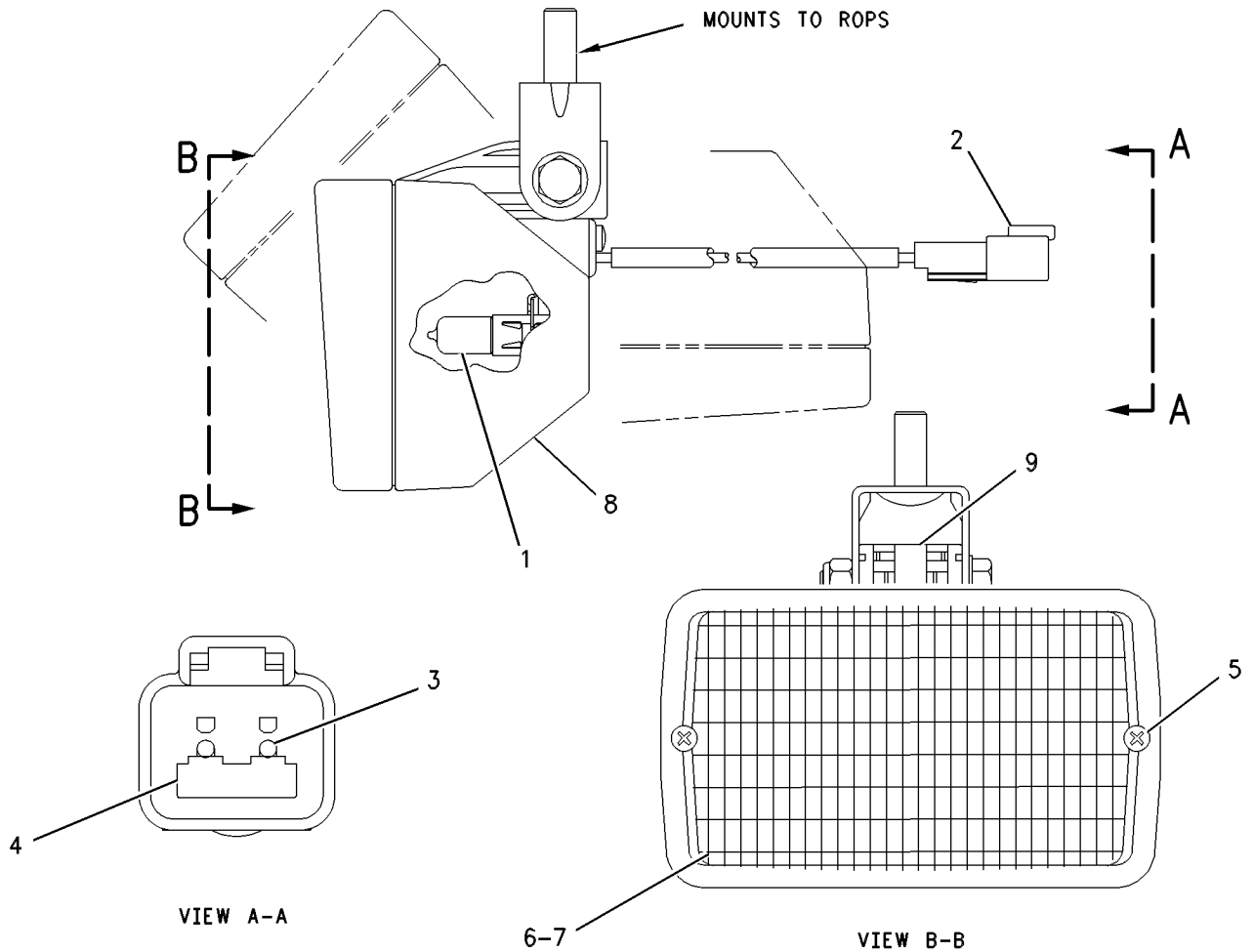
24 VOLT. SUSPENDED

PART OF 186-4530 LIGHTING GP, 183-1067 LIGHTING GP-FL00D

SMCS-1434

i01336077

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-3463	1	LAMP (24 VOLT) (65 WATT)						
	2	1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	3	1	8T-8729	2	PIN-CONNECTOR						
	4	1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
	5	1	144-5282	2	SCREW						
	6	1	144-5283	1	SEAL						
	7	1	144-5284	1	LENS AS						
	8	1	144-5744	1	BODY AS						
	9	1	164-7556	1	CLIP						



GRAPHIC #1

g00527851

ELECTRICAL AND STARTING SYSTEM

135-0550 LAMP GP-FL00D

S/N: CBY1-UP

PART OF 135-2055 LIGHTING GP
AN ATTACHMENT

SMCS-1434

i00619198

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			(INDIVIDUAL PARTS ARE NOT SERVICED SEPARATELY)						

ELECTRICAL AND STARTING SYSTEM

153-2521 LAMP GP- FLOOD

S/N: BPH1-UP; CAM1-UP

24 VOLT . VERTICAL

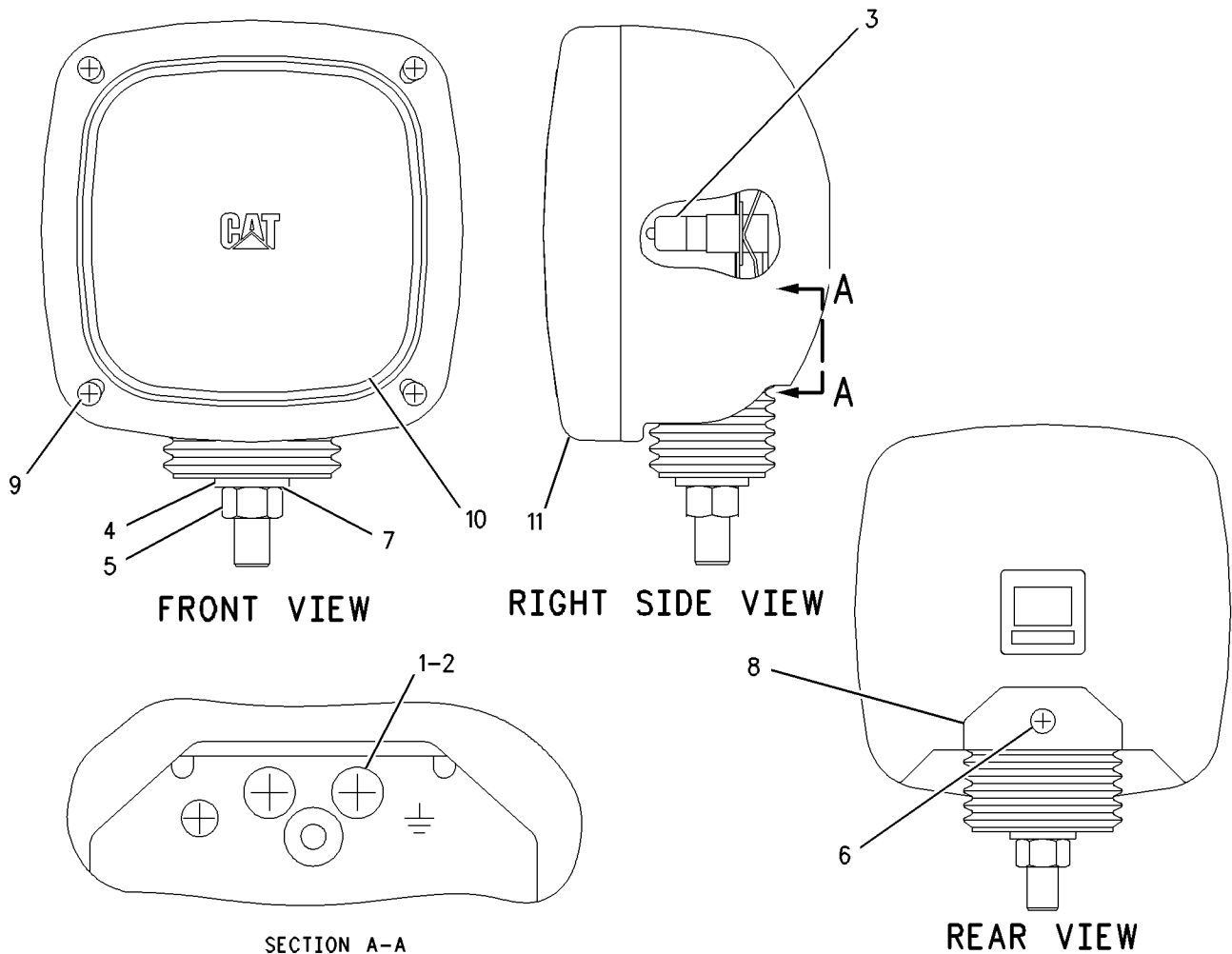
PART OF 116-0184, 116-0189 LIGHTING GP-BOOM
AN ATTACHMENT

SMCS-1434

i01462384

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-5210	2	SCREW-MACHINE (M4X0.7X10MM)						
	2	1	3B-4501	2	LOCKWASHER						
	3	1	9X-3463	1	LAMP (24 VOLT) (65 WATT)						
	4	1	8T-4223	1	WASHER-HARD (13.5X25.5X3MM THK)						
M	5	1	8T-4244	1	NUT (M12X1.75 THD)						
M	6	1	174-7791	1	SCREW						
	7	1	5C-2889	1	LOCKWASHER						
	8	1	170-6993	1	COVER						
M	9	1	180-3861	4	SCREW						
	10	1	170-9417	1	LAMP AS						
	11	1	170-9418	1	BAND						

M-METRIC PART



GRAPHIC #1

g00766916

ELECTRICAL AND STARTING SYSTEM

135-2055 LIGHTING GP

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

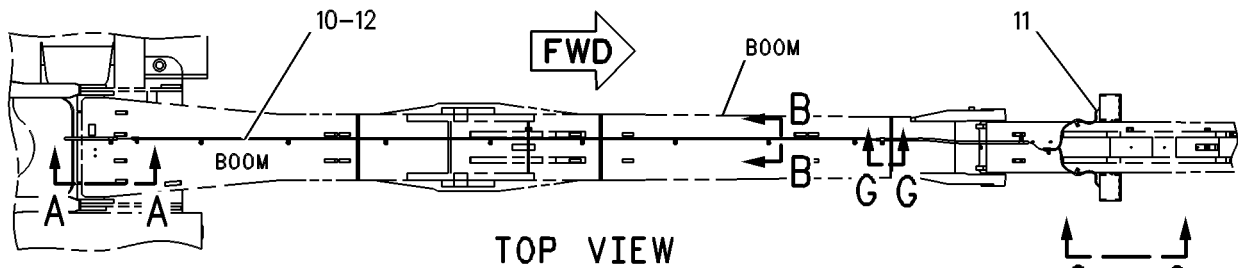
SMCS-1429

i00619279

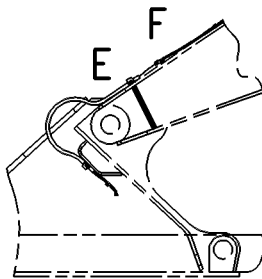
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4121	17	WASHER (2.5MM THK)						
M	2	1	8T-4133	17	NUT (M10X1.50 THD)						
M	3	1	6V-4429	4	BOLT (M16X2.0X40MM)						
	4	1	9X-8257	4	WASHER (3.50MM THK)						
	5	1	4D-8123	12	CLIP (7.94MM ID)						
	6	1	6D-3479	3	CLIP (14.29MM ID)						
	7	1	116-0118	2	CLIP						
	8	1	133-9451	2	BRACKET AS						
Y	9	1	135-0550	2	LAMP GP-FLOOD						142
	10	1	140-2887	1	HARNESS AS						
	11	1	134-8522	1	HARNESS AS						
	12	1	096-0061	6	STRAP-CABLE						

M-METRIC PART

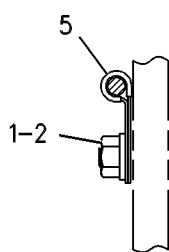
Y-SEPARATE ILLUSTRATION



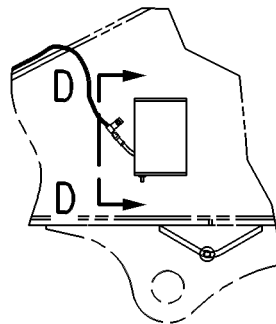
TOP VIEW



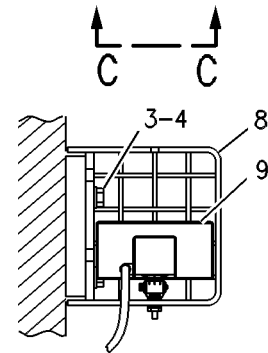
VIEW A-A



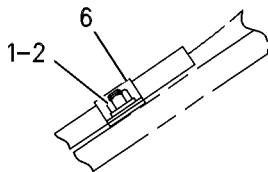
SECTION B-B



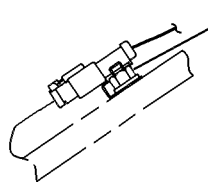
VIEW C-C



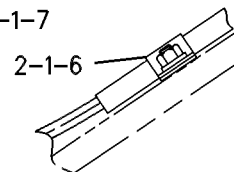
SECTION D-D



VIEW OF AREA E



VIEW OF AREA F



VIEW G-G

GRAPHIC #1

g00276782

ELECTRICAL AND STARTING SYSTEM

186-4530 LIGHTING GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

CHASSIS

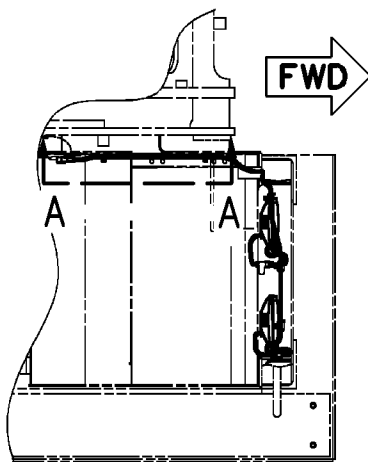
PART OF 192-2348 GUARD GP-LIGHT

SMCS-1429

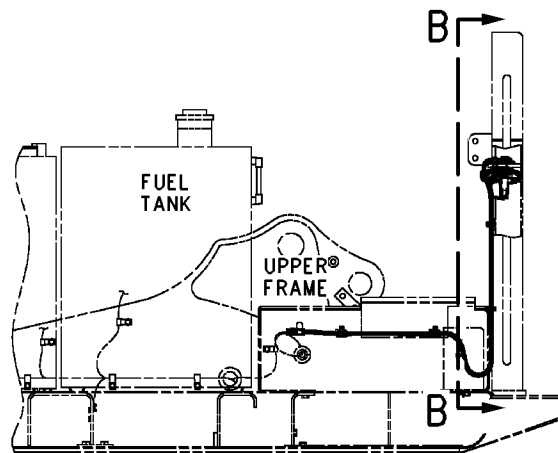
i01508286

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	138-5185	1	HARNESS AS	
		1	155-2270	2	KIT-CONNECTING PLUG (2 PIN)	
		1	102-8804	1	KIT-RECEPTACLE (4 PIN)	
	2	1	3S-2093	6	STRAP-CABLE	
	3	1	9K-0700	2	GROMMET	
Y	4	1	112-9378	2	LAMP GP-FLOOD (24 VOLT) (SUSPENDED)	141

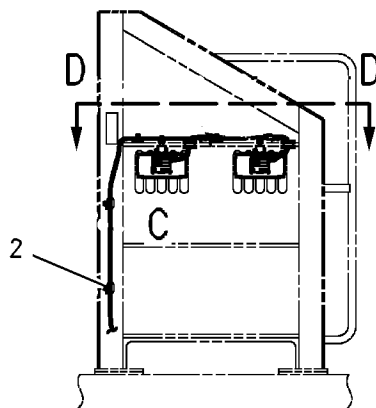
Y-SEPARATE ILLUSTRATION



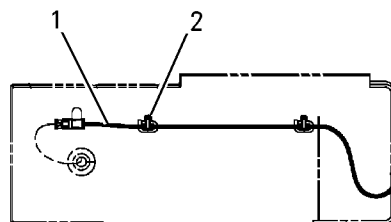
TOP VIEW



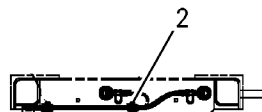
RIGHT SIDE VIEW



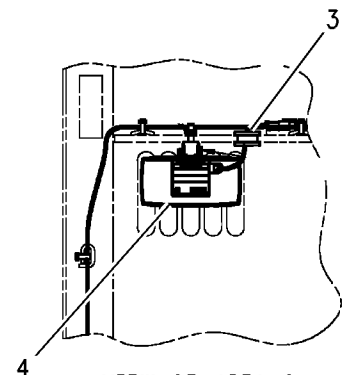
VIEW B-B



VIEW A-A



VIEW D-D



VIEW OF AREA C

GRAPHIC #1

g00733939

ELECTRICAL AND STARTING SYSTEM

116-0184 LIGHTING GP-BOOM-LH

S/N: BPH1-UP; CAM1-UP

PART OF 190-2320 BOOM AR-1 PIECE LONG
AN ATTACHMENT

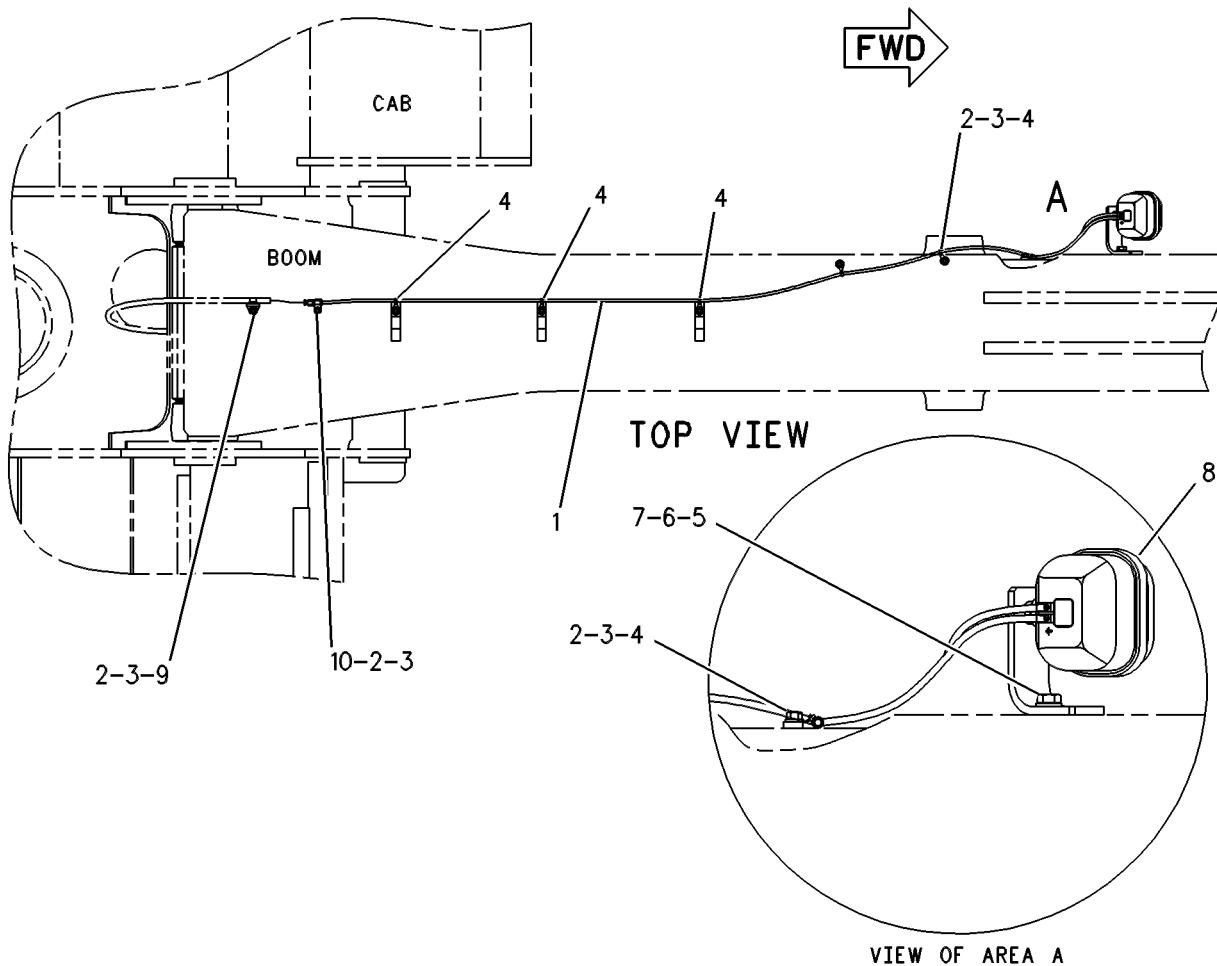
SMCS-1434

i00998585

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	116-0207	1	HARNESS AS	
M	2	1	8T-4133	5	NUT (M10X1.50 THD)	
	3	1	8T-4121	5	WASHER (2.5MM THK)	
	4	1	4D-8123	6	CLIP (7.94MM ID)	
M	5	1	8T-4190	1	BOLT (M16X2.0X25MM)	
	6	1	9X-8257	1	WASHER (3.50MM THK)	
	7	1	5I-8273	1	BRACKET	
Y	8	1	5I-8250	1	LAMP GP-FLOOD	140
					-OR-	
Y		1	153-2521	1	LAMP GP-FLOOD	143
	9	1	6D-3479	1	CLIP (14.29MM ID)	
	10	1	116-0118	1	CLIP	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00263698

ELECTRICAL AND STARTING SYSTEM

116-0189 LIGHTING GP-BOOM

S/N: BPH1-UP; CAM1-UP

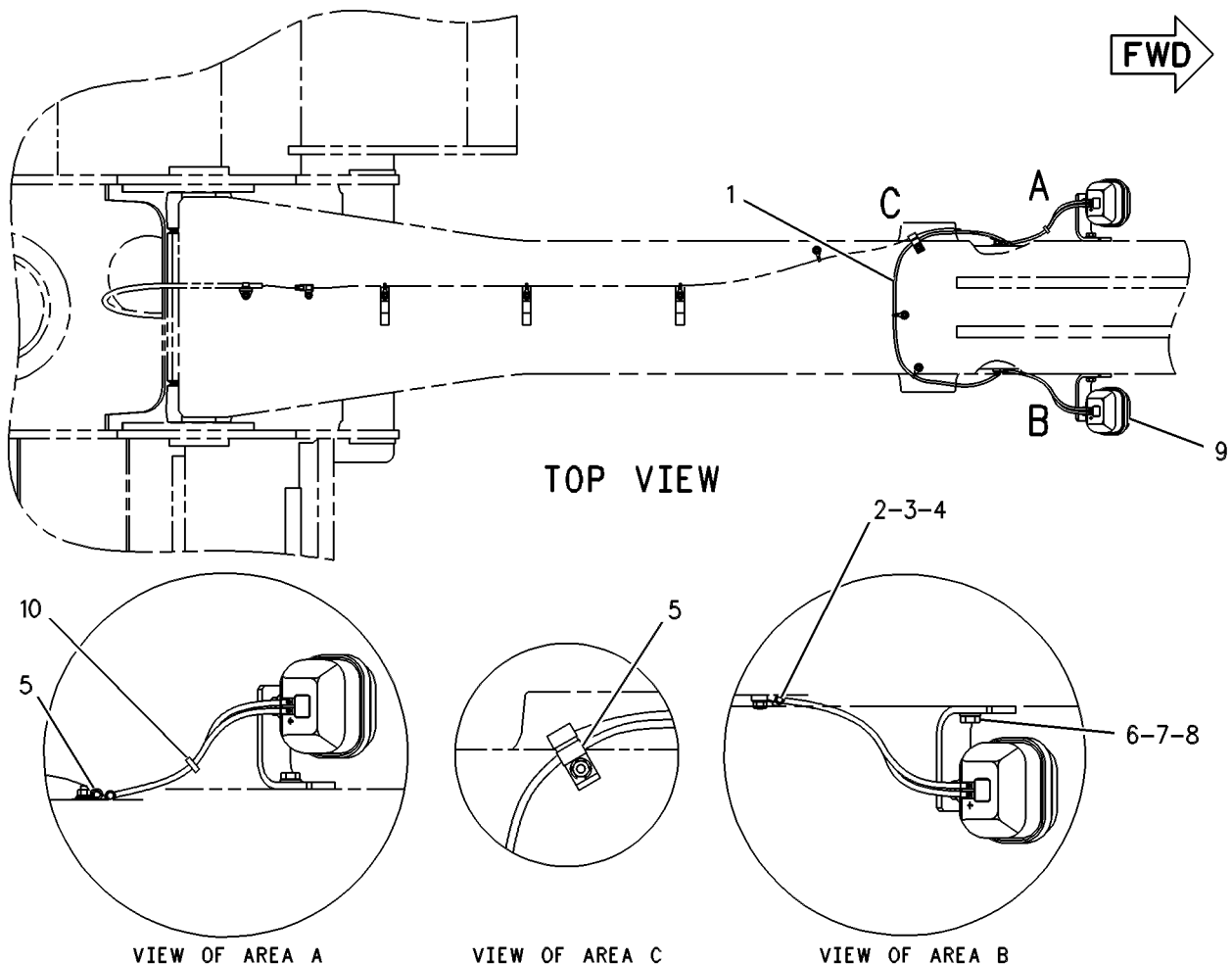
PART OF 190-2320 BOOM AR-1 PIECE LONG
AN ATTACHMENT

SMCS-1434

i00998574

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	102-7867	1	HARNESS AS	
	2	1	4D-8123	3	CLIP (7.94MM ID)	
M	3	1	8T-4133	3	NUT (M10X1.50 THD)	
	4	1	8T-4121	3	WASHER (2.5MM THK)	
	5	1	5P-9085	2	CLIP	
M	6	1	8T-4190	1	BOLT (M16X2.0X25MM)	
	7	1	9X-8257	1	WASHER (3.50MM THK)	
	8	1	5I-8273	1	BRACKET	
Y	9	1	5I-8250	1	LAMP GP-FL00D	140
					-OR-	
Y		1	153-2521	1	LAMP GP-FL00D	143
	10	1	3S-2093	1	STRAP-CABLE (1.75IN DIA)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00273124

ELECTRICAL AND STARTING SYSTEM

183-1067 LIGHTING GP-FLOOD

S/N: BPH1-UP; CAM1-UP; CBY1-UP

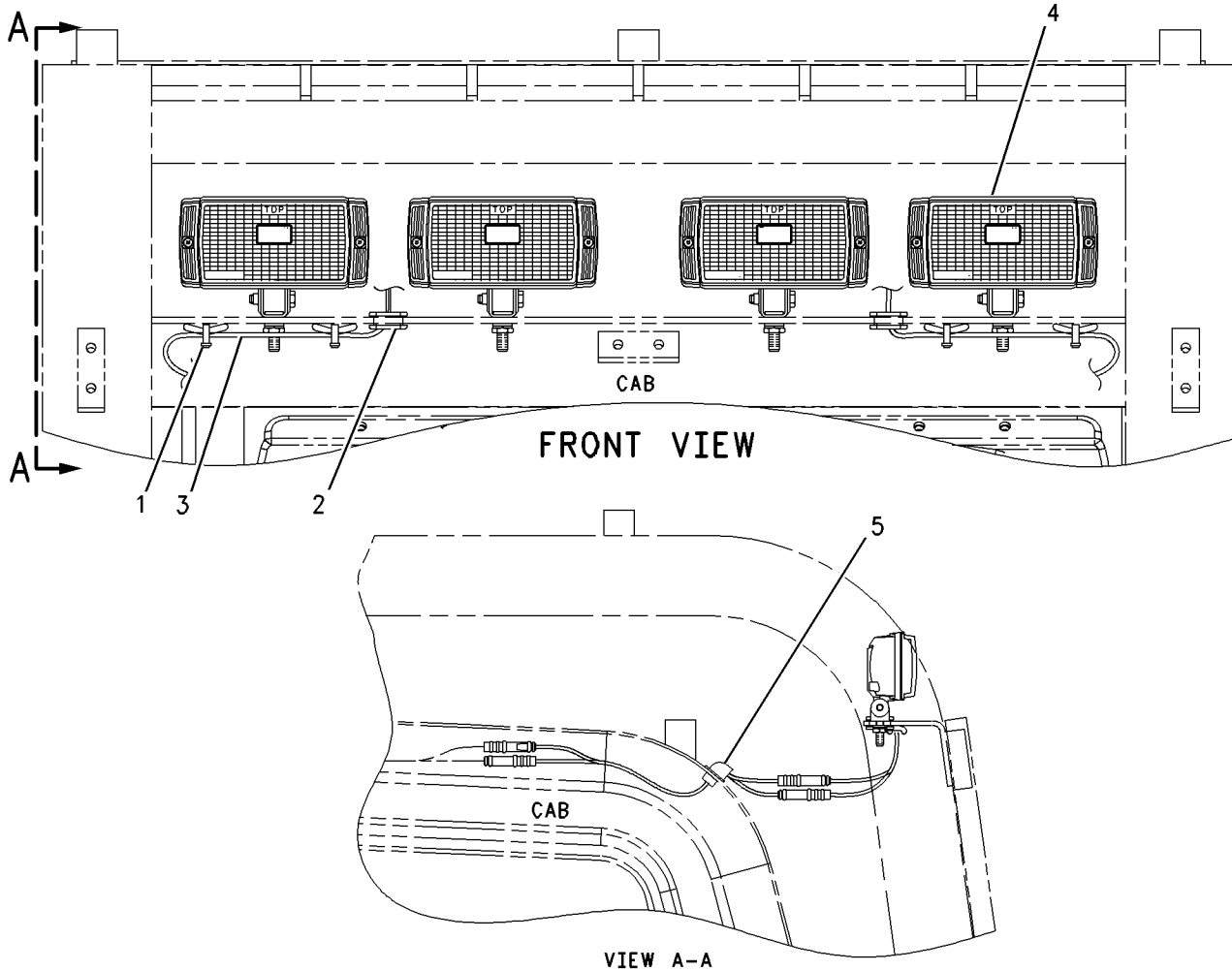
CAB

PART OF 192-2339, 192-2340 RISER AR-CAB

SMCS-1434

i01513007

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	3S-2093	4	STRAP-CABLE	
	2	1	2R-1498	2	GROMMET	
	3	1	186-4531	2	HARNESS AS	
					(EACH INCLUDES)	
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
Y	4	1	112-9378	4	LAMP GP-FLOOD (24 VOLT) (SUSPENDED)	141
	5	1	167-3456	2	HARNESS AS	
Y- SEPARATE ILLUSTRATION						



GRAPHIC #1

g00729286

ELECTRICAL AND STARTING SYSTEM

197-4259 PANEL GP-CIRCUIT BREAKER

S/N: BPH1-UP; CAM1-UP

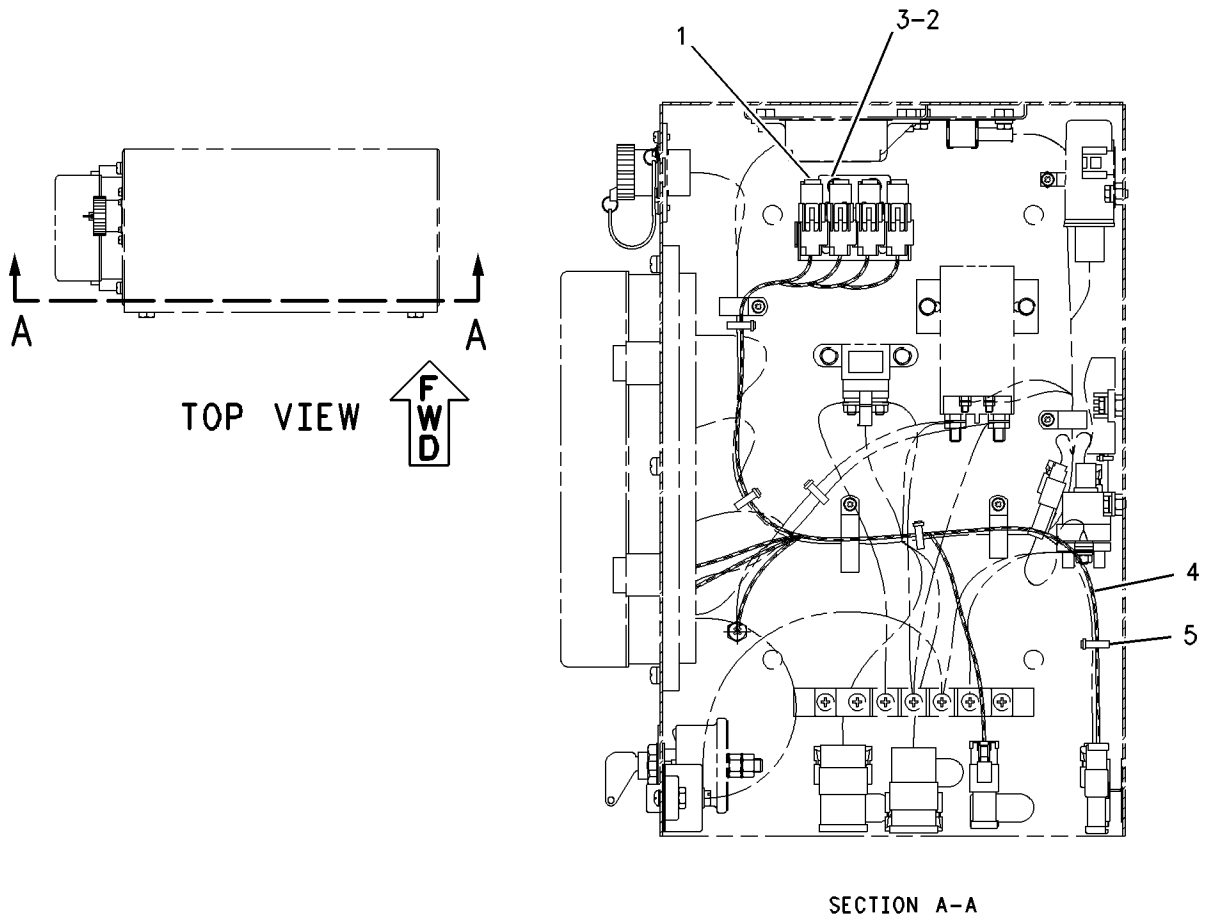
PART OF 205-9488 WIRING GP-WORK TOOL
AN ATTACHMENT

SMCS-1417

i01539904

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-3128	4	RELAY						
M	2	1	7X-2619	2	BOLT (M6X1.0X20MM)						
	3	1	9X-8256	2	WASHER (6.6X12X2MM THK)						
	4	1	197-4260	1	HARNESS AS						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)						
	5	1	3S-2093	4	STRAP-CABLE						

M-METRIC PART



GRAPHIC #1

g00801710

ELECTRICAL AND STARTING SYSTEM

205-1885 PANEL GP-CIRCUIT BREAKER

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 192-2325 BATTERY & WIRING GP

SMCS-1417

i01515177

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	186-4514	1	BRACKET AS	
M		1	6V-9632	19	NUT-WELD (M6X1 THD)	
M		1	8T-3490	4	NUT-WELD (M10X1.5 THD)	
M	2	1	8T-4191	4	BOLT (M10X1.5X16MM)	
	3	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)	
	4	1	163-6746	1	COVER	
	5	1	170-6887	1	COVER	
M	6	1,2	8C-7581	10	SCREW-MACHINE (M4X0.7X8MM)	
	7	1,2	096-6166	10	WASHER-HARD (4.5X9X1MM THK)	
M	8	1	8T-6411	14	SCREW-MACHINE (M6X1X12MM)	
	9	1	9X-8256	30	WASHER (6.6X12X2MM THK)	
M	10	1	8T-4970	2	BOLT (M6X1X14MM)	
	11	1	163-6703	1	TIMER AS-OFF DELAY	
		1	102-8804	1	KIT-RECEPTACLE (4 PIN)	
	12	1	105-9981	1	CLIP	
M	13	1	7X-2619	10	BOLT (M6X1.0X20MM)	
	14	1	165-4026	1	SWITCH AS-MAGNETIC (MAIN RELAY)	
		1	4F-2294	2	NUT-JAM (5/16-24 THD)	
		1	6V-8186	2	NUT-FULL (5/16-24 THD)	
		1	6V-8378	2	NUT (10-32 THD)	
	15	1	105-9983	1	CLIP	
	16	1	3S-2093	2	STRAP-CABLE	
	17	1	105-9984	1	CLIP	
	18	1	105-9986	1	CLIP	
	19	1	105-9985	1	CLIP	
	20	1	167-3593	1	STRAP	
	21	1	163-6780	1	WIRE AS	
	22	1	183-1012	1	WIRE AS	
M	23	1	5C-2890	2	NUT (M6X1 THD)	
	24	1	116-0114	1	SWITCH AS (HEATER RELAY)	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
	25	1	096-5962	4	WASHER-HARD (3.4X7X0.8MM THK)	
M	26	1	3E-8048	4	SCREW-MACHINE	
	27	1	136-4055	1	STRIP	
	28	1	205-0352	1	HARNESS AS	
		1	102-8803	1	KIT-RECEPTACLE (3 PIN)	
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)	
		1	102-8801	1	KIT-RECEPTACLE (12 PIN)	
		1	155-2260	1	KIT-CONNECTING PLUG (3 PIN)	
		1	155-2274	1	KIT-CONNECTING PLUG (6 PIN)	
		1	155-2255	1	KIT-CONNECTING PLUG (12 PIN)	
	29	1	205-1884	1	CABLE AS	
		1	9G-4343	1	TERMINAL-CRIMP (4 GA, 6.35MM/.25IN SCREW)	
	30	1	163-6752	1	CABLE AS	
		1	9G-4343	1	TERMINAL-CRIMP (4 GA, 6.35MM/.25IN SCREW)	
	31	1	163-6751	1	CABLE AS	
		1	9G-4343	1	TERMINAL-CRIMP (4 GA, 6.35MM/.25IN SCREW)	
	32	1	205-1882	1	CABLE AS	
		1	9G-4343	1	TERMINAL-CRIMP (4 GA, 6.35MM/.25IN SCREW)	
		1	5P-3454	1	TERMINAL-CRIMP (FOR 5/16IN BOLT)	
	33	1	183-1010	1	WIRE AS	
	34	1	111-4829	1	WIRE AS	
	35	1	121-1023	1	BLOCK-TERMINAL	
	36	1,2	161-3128	8	RELAY	
	37	1,2	113-8491	8	FUSE (15 AMP)	
	38	1,2	141-2759	7	FUSE (5 AMP)	

ELECTRICAL AND STARTING SYSTEM

205-1885 PANEL GP-CIRCUIT BREAKER (contd.)

i01515177

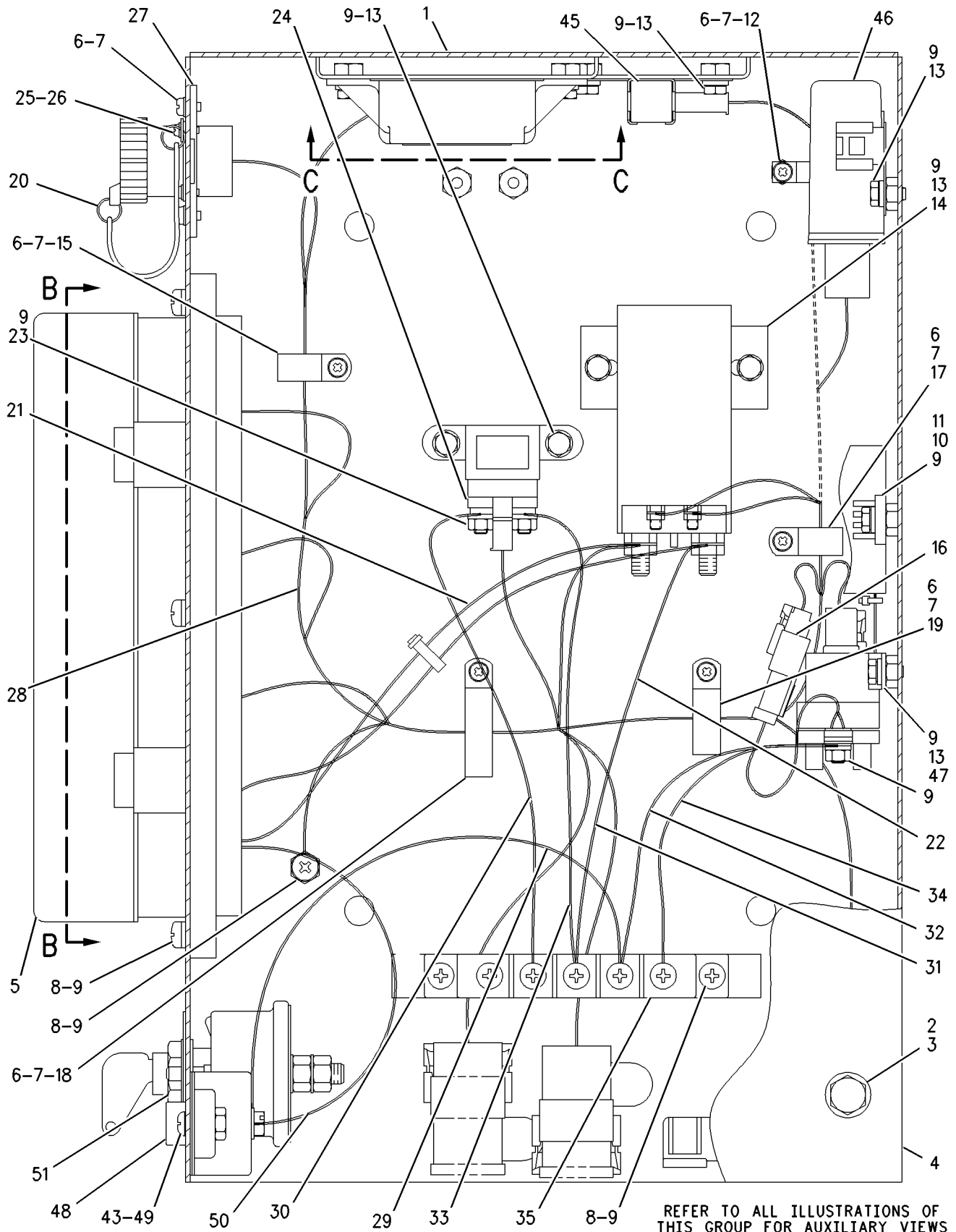
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	39	1,2	113-8490	24	FUSE (10 AMP)	
	40	1,2	170-6888	1	TOOL	
	41	1,2	7Y-8242	1	RESISTOR (47 OHMS)	
	43	1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)	
	45	1	102-8016	1	RESISTOR AS (47 OHMS) (40 WATT)	
	46	1	197-4330	1	CONTROLLER-AIR	
	47	1	125-1302	1	SWITCH GP-MAGNETIC (START RELAY)	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
	48	1	171-2211	1	CIRCUIT BREAKER AS (90 AMP)	
		1	1H-3244	1	LOCKWASHER	
		1	6V-8187	1	NUT (1/4-28 THD)	
		1	8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)	
	49	1	6V-5645	2	SCREW-MACHINE (10-32X0.87 IN)	
	50	1	205-1883	1	CABLE AS	
Y	51	1	7N-0719	1	SWITCH GP-DISCONNECT (BATTERY)	177

M-METRIC PART
Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

205-1885 PANEL GP-CIRCUIT BREAKER (contd.)

101515177



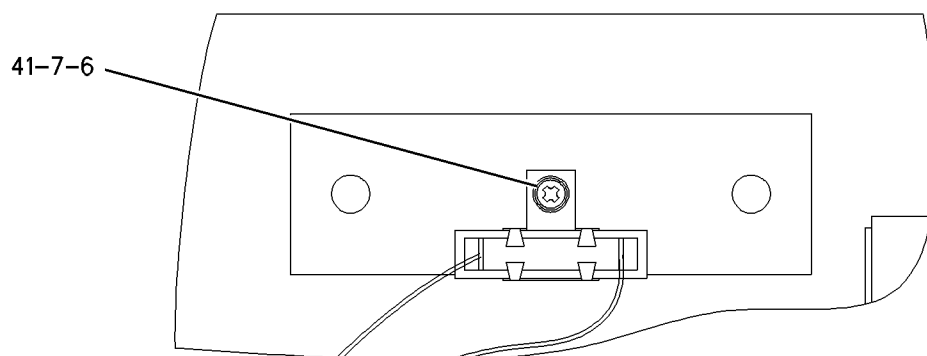
GRAPHIC #1

g00795407

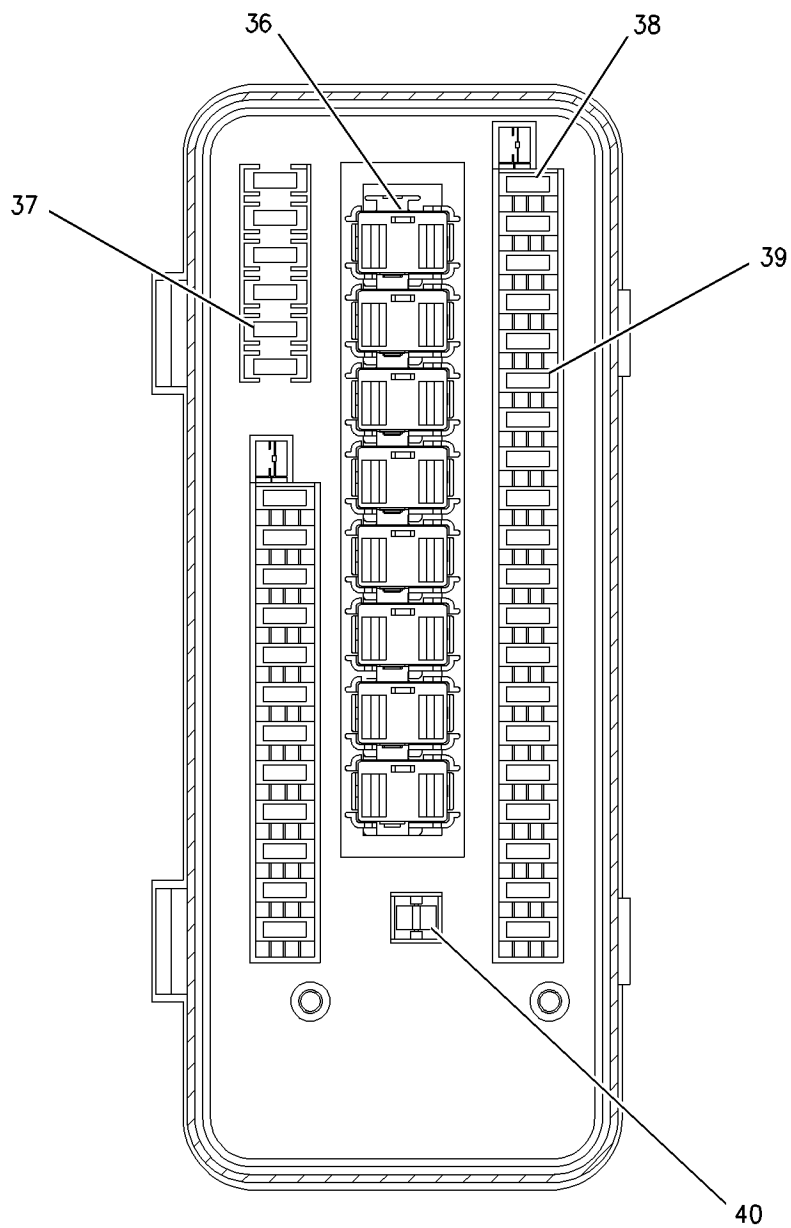
ELECTRICAL AND STARTING SYSTEM

205 - 1885 PANEL GP -CIRCUIT BREAKER (contd.)

i01515177



SECTION C-C



SECTION B-B

GRAPHIC #2

g00795510

ELECTRICAL AND STARTING SYSTEM

178-6639 SENSOR & MTG GP-LIQUID LEVEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

WATER SEPARATOR

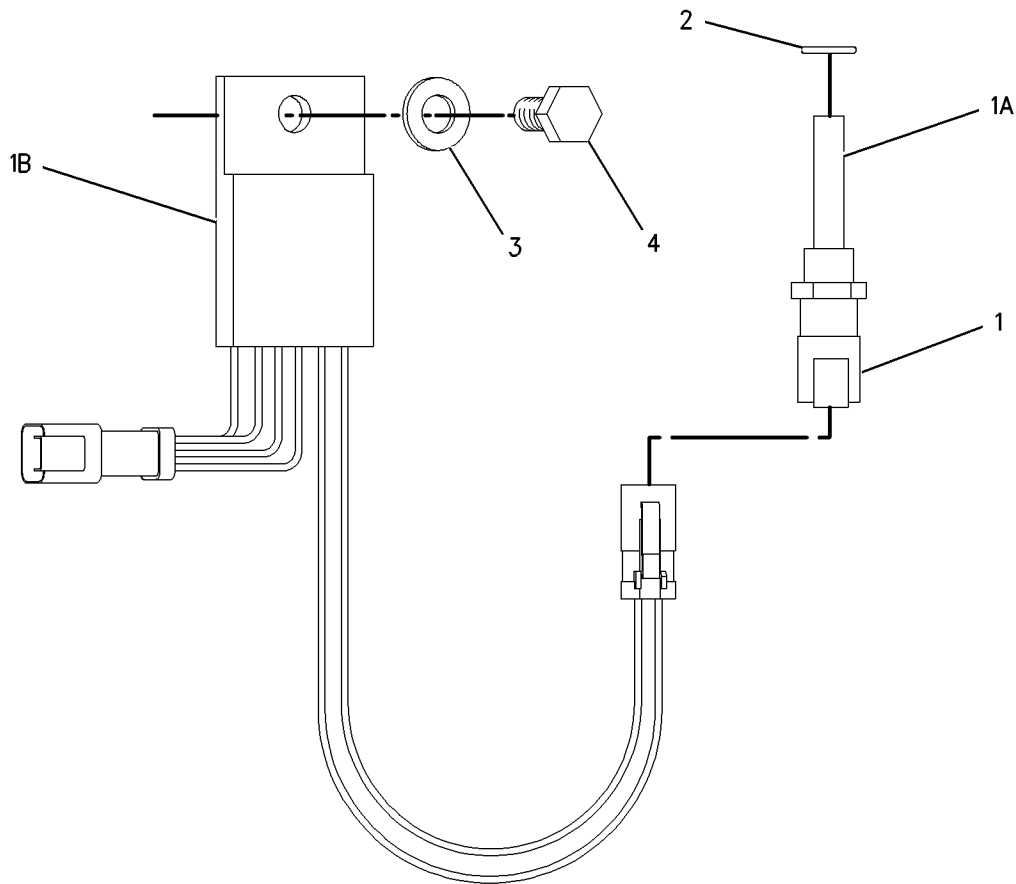
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1408

i01458217

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-2345	1	SENSOR GP-LIQUID LEVEL						
	1A	1	178-2334	1	PROBE AS-LIQUID LEVEL						
	1B	1	178-2335	1	SENSOR AS-LIQUID LEVEL (WATER SEPARATOR)						
		1	102-8804	1	KIT-RECEPTACLE (4 PIN)						
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN)						
	2	1	6V-5049	1	SEAL-O-RING						
	3	1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
M	4	1	8T-4137	1	BOLT (M10X1.5X20MM)						

M-METRIC PART



GRAPHIC #1

g00763501

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

178-2496 SENSOR GP - ENGINE

S/N: 55K8513-UP

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1000, 1906, 1907, 1924

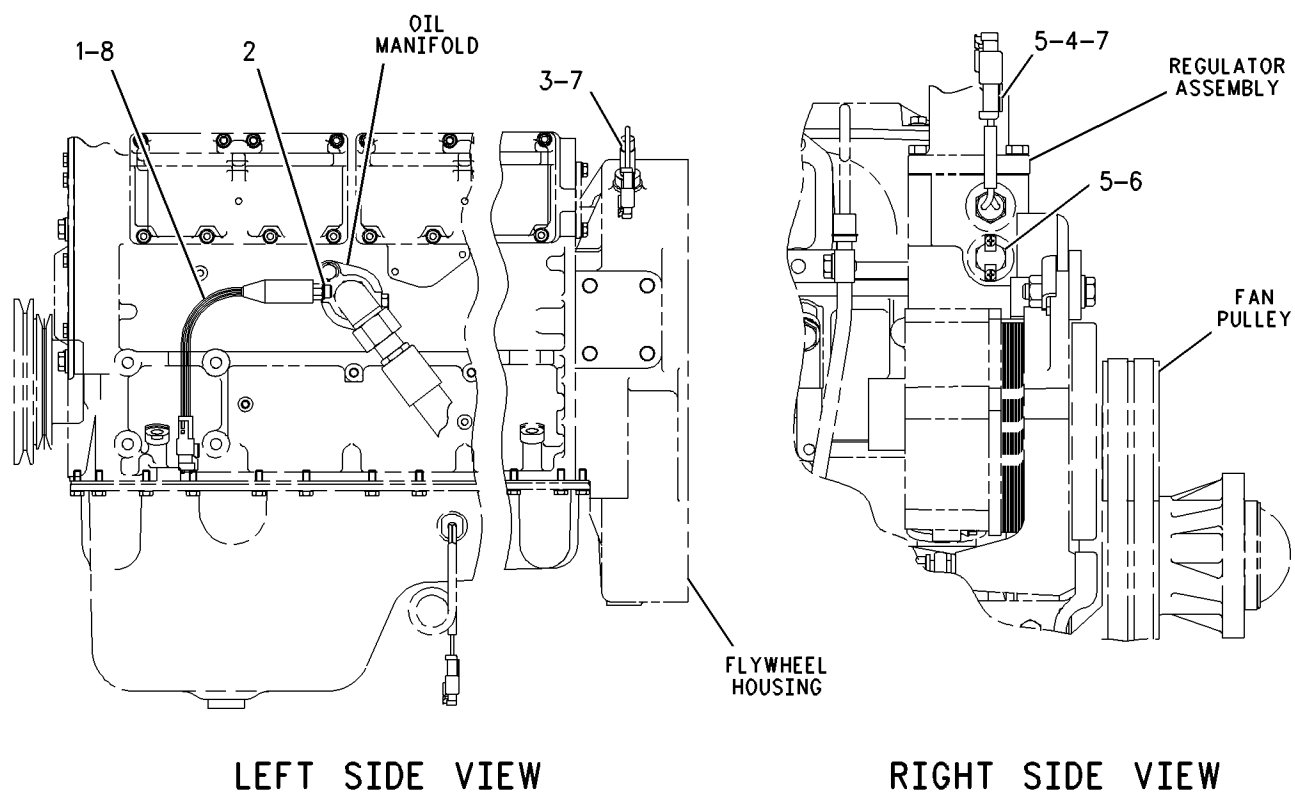
i01351222

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-6455	1	SWITCH AS-PRESSURE (ENGINE OIL)						
		1	102-8803	1	KIT-RECEPTACLE (3 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	3J-1907	1	SEAL-O-RING (11.89MM ID)						
	3	1	189-5746	1	SENSOR GP-SPEED (ENGINE FLYWHEEL)						
		1	171-5349	1	STRAP-MARKER						
B		1	9X-1386		SLEEVE						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	4	1	125-4812	1	SENDER AS-TEMPERATURE (ENGINE COOLANT)						
		1	8T-8729	2	PIN-CONNECTOR						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	5	1	3K-0360	2	SEAL-O-RING (16.36MM ID)						
	6	1	4I-5394	1	SENDER AS-TEMPERATURE (ENGINE COOLANT)						
M		1	4I-5490	2	SCREW-MACHINE						
		1	095-0826	2	LOCKWASHER						
	7	1	188-2128	2	PLUG AS						
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN)						
					(INCLUDES PLUG AS & WEDGE)						
	8	1	160-8123	1	PLUG AS						
		1	155-2260	1	KIT-CONNECTING PLUG (3 PIN)						
					(INCLUDES PLUG AS & WEDGE)						
B-USE AS REQUIRED											
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

178-2496 SENSOR GP-ENGINE (contd.)

i01351222



GRAPHIC #1

g00708447

ELECTRICAL AND STARTING SYSTEM

7C-4028 SOLENOID GP-SHUTOFF

S/N: 55K8513-UP

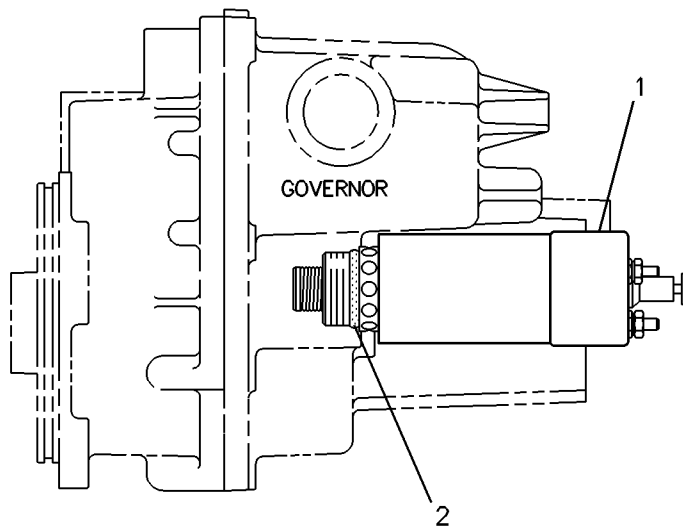
24 VOLT. ENERGIZED TO SHUTDOWN

PART OF 197-8655 ENGINE AR-COMPLETE

SMCS-1259

i01011213

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	155-4652	1	SOLENOID AS						
		1	6V-8377	2	NUT (8-32 THD)						
		1	9B-7233	2	LOCKWASHER (NO.8)						
		1	6V-8378	1	NUT (10-32 THD)						
		1	4B-4274	1	WASHER (1.2MM THK)						
	2	1	4K-1388	1	SEAL-O-RING (26.59MM ID)						



GRAPHIC #1

g00108439

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

171-9117 STARTING AID GP-ETHER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

AN ATTACHMENT

SMCS-1456

i01405191

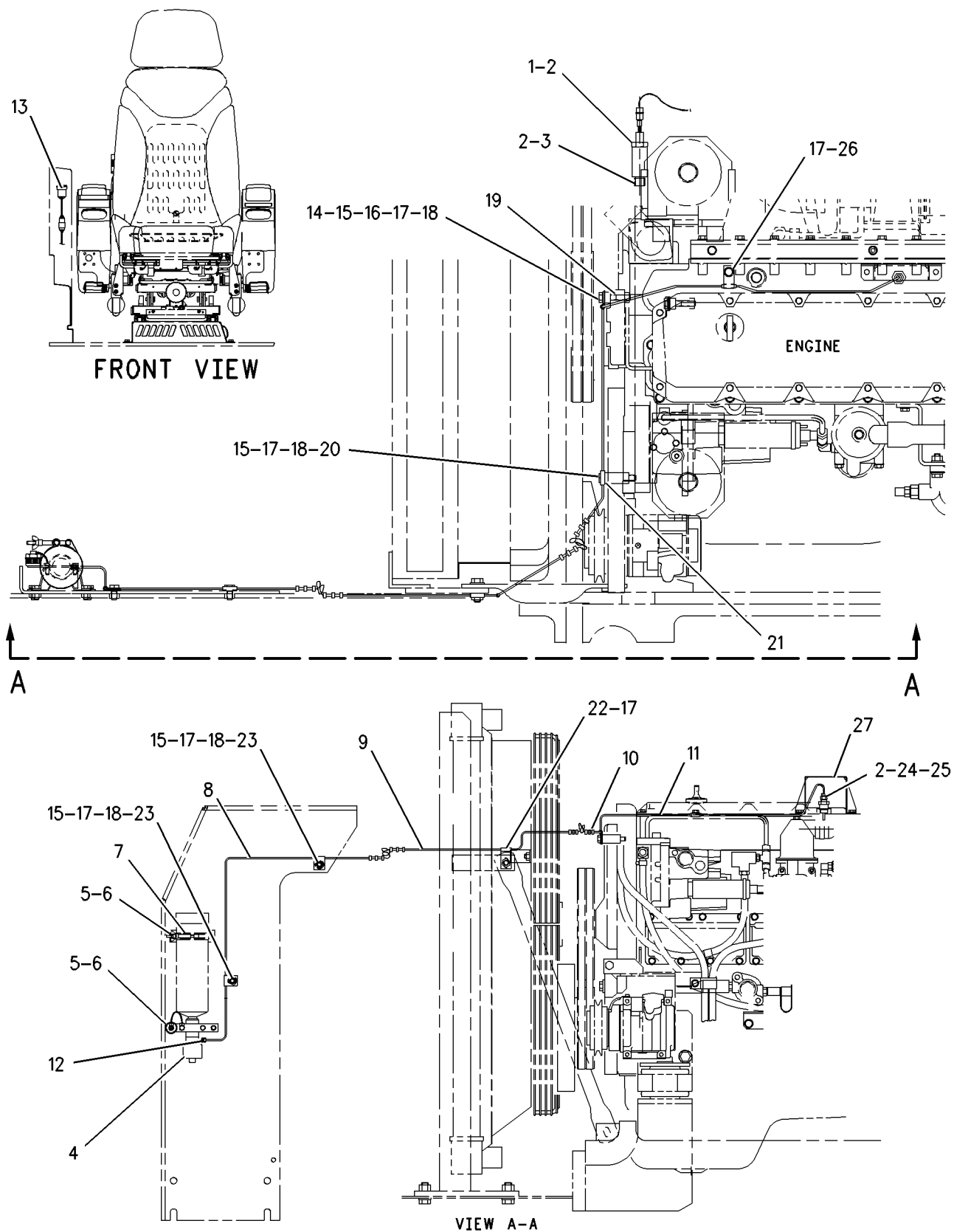
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-6449	1	SWITCH AS-TEMPERATURE (ETHER AID ARMING)						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
		1	8T-8729	1	PIN-CONNECTOR						
	2	1	3K-0360	3	SEAL-O-RING (16.36MM ID)						
	3	1	099-3563	1	CONNECTOR						
	4	1	3E-6332	1	VALVE AS-ETHER START						
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
		1	7N-9801	1	GASKET						
		1	8T-8729	2	PIN-CONNECTOR						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
	5	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	6	1	8T-4189	4	BOLT (M8X1.25X20MM)						
	7	1	7N-2059	1	CLAMP AS-CYLINDER						
	8	1	178-6630	1	TUBE						
	9	1	178-6629	1	TUBE						
	10	1	7N-0140	2	TUBE AS-COIL						
	11	1	178-6628	1	TUBE						
	12	1	5P-2948	1	CONNECTOR-TUBE						
	13	1	183-1007	1	SWITCH AS-ROCKER (ETHER AID ON-OFF)						
M	14	1	8T-4133	1	NUT (M10X1.5 THD)						
	15	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
M	16	1	8T-4185	1	BOLT (M10X1.5X50MM)						
	17	1	3D-5102	6	GROMMET						
	18	1	2B-2404	4	CLIP						
	19	1	118-9901	1	SPACER						
M	20	1	8T-6466	1	BOLT (M10X1.50X60MM)						
	21	1	118-9902	1	SPACER						
	22	1	1B-3581	1	CLIP						
M	23	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	24	1	8J-7844	1	FITTING-ADAPTER						
	25	1	6N-9995	1	ATOMIZER AS-ETHER						
	26	1	3L-2875	1	CLIP (6.35MM ID)						
	27	1	193-2728	1	COVER						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

171-9117 STARTING AID GP-ETHER (contd.)

i01405191



GRAPHIC #1

g00740166

ELECTRICAL AND STARTING SYSTEM

186-1311 STARTING AR-COLD WEATHER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

AN ATTACHMENT

SMCS-1450

i01460698

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	170-9357	1	BATTERY & WIRING GP						124
Y	190-7213	1	COVER GP-BATTERY						212
Y	128-5626	1	STARTING MOTOR GP-ELECTRIC						175
Y-SEPARATE ILLUSTRATION									

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

6V-5720 STARTING MOTOR GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

PART OF 104-7040 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 106-8558-PAGE 171

SMCS-1453

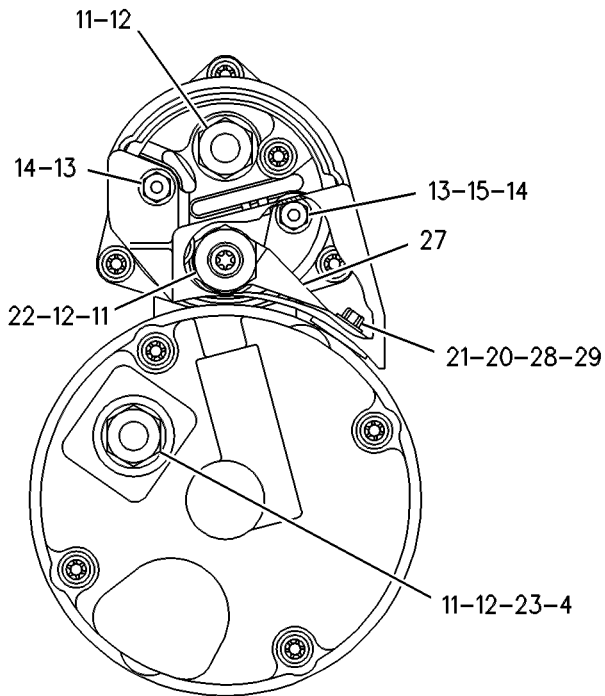
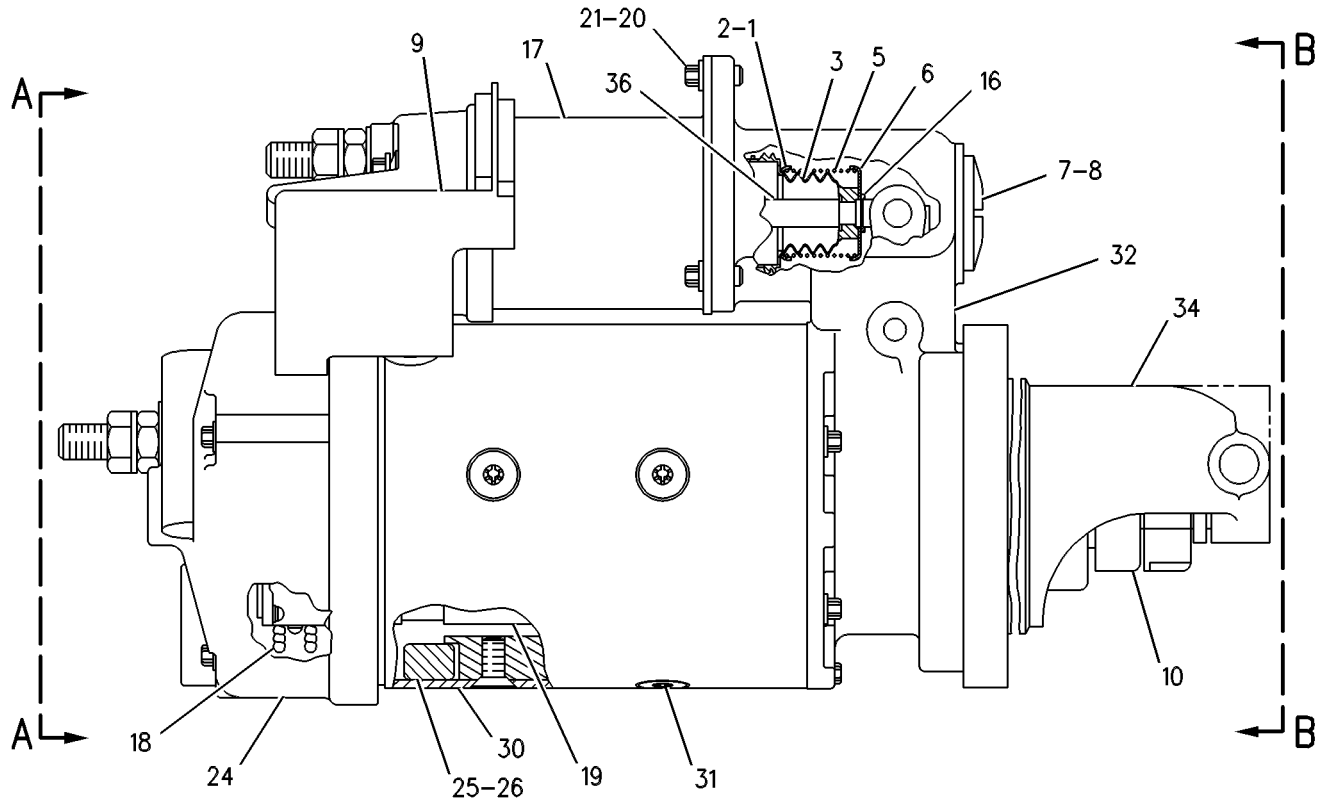
101365969

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	4M-1828	1	RETAINER-SPRING	
	2	1	036-9821	1	WASHER	
	3	1	7T-3269	1	BOOT	
	4	1	8T-9884	1	KIT-INSULATOR	
	5	1	9M-7609	1	SPRING	
	6	1	4M-1827	1	RETAINER-SPRING	
	8	1	7L-2894	1	GASKET	
	9	1	9X-4824	1	COVER-STARTING MOTOR	
	10	1	7X-1953	1	DRIVE AS-MOTOR	
	11	1	7X-0562	4	WASHER-HARD (0.8MM THK)	
	12	1	6V-8188	4	NUT (1/2-13 THD)	
	13	1	4B-2049	2	NUT (10-32 THD)	
	14	1	8T-0328	2	WASHER-HARD (1MM THK)	
	15	1	8F-1434	1	LOCKWASHER (0.51MM THK)	
	16	1	2H-3429	1	RING-RETAINING	
	17	1	9X-4823	1	SOLENOID AS	
	18	1	9X-4821	1	PLATE AS	
	19	1	7X-1951	1	ARMATURE AS	
	20	1	5S-7349	4	BOLT (1/4-20X0.5 IN)	
	21	1	8T-4205	4	WASHER-HARD (2MM THK)	
	22	1	3E-7853	1	TERMINAL-STARTING MOTOR	
	23	1	102-9863	1	TERMINAL AS-STARTER	
	24	1	106-7149	1	HOUSING AS-STARTER	
	25	1	9X-4822	1	COIL AS	
	26	1	7T-3454	1	INSULATOR	
	27	1	9X-4271	1	CONNECTOR	
	28	1	8T-8569	1	INSULATOR-TERMINAL	
	29	1	7T-3451	1	INSULATOR-TERMINAL	
	30	1	7X-1950	4	SHOE-POLE	
	31	1	3F-0379	8	SCREW-POLE SHOE	
	32	1	7X-1952	1	HOUSING AS-LEVER	
	33	1	036-9823	5	BOLT	
	34	1	7X-1954	1	HOUSING AS-DRIVE	
	35	1	7X-3373	6	BOLT (5/16-18X.88 IN)	
	36	1	7T-3270	1	PLUNGER AS	
					AVAILABLE REPAIR KIT(S) :	
			7X-1958	1	KIT-LEVER	
					(INCLUDES LEVER AS, SHAFT AS, GASKET, O-RINGS, RINGS, STOP AND NUT)	
			9X-4270	1	KIT-BUSHING	
					(INCLUDES BUSHINGS, SEAL, O-RINGS, CUPS, SPACER, STOP, PLUGS, GASKET, WASHERS, RING, AND SCREW AS.)	
			9X-4825	1	KIT-BRUSH	
					(INCLUDES BRUSHES, O-RING, SCREWS & SPRINGS)	

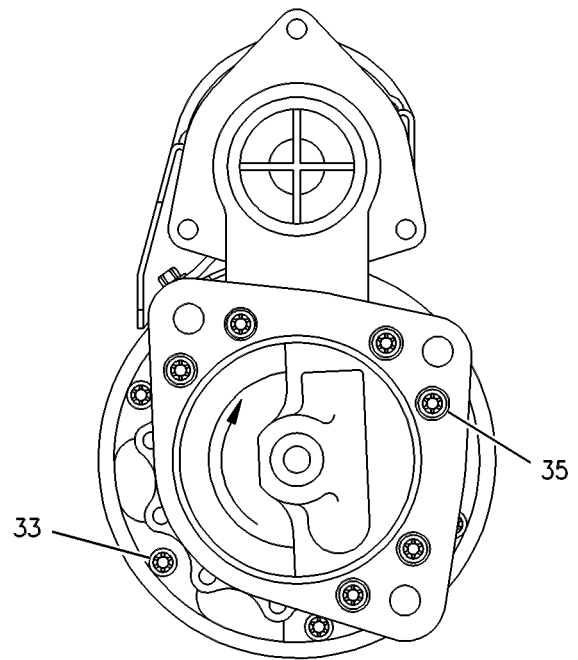
ELECTRICAL AND STARTING SYSTEM

6V-5720 STARTING MOTOR GP-ELECTRIC (contd.)

i01365969



VIEW A-A



VIEW B-B

GRAPHIC #1

g00117462

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC*R

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

PART OF 128-5626 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

i00617911

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5S-7349	4	BOLT (1/4-20X0.5IN)						
	2	1	9X-4824	1	COVER-STARTING MOTOR						
	3	1	2H-3429	2	RING-RETAINING						
	4	1	4B-2049	3	NUT (10-32 THD)						
	5	1	8F-1434	2	LOCKWASHER (5MM ID)						
	6	1	7T-3271	1	CONNECTOR						
	7	1	8T-4205	4	WASHER-HARD (2MM THK)						
	8	1	036-9823	5	BOLT						
	9	1	7T-3277	1	COIL AS-FIELD						
	10	1	3F-0379	8	SCREW-POLE SHOE						
	11	1	7T-3276	1	ARMATURE AS						
	12	1	8H-1141	4	SHOE-POLE						
	13	1	7T-3454	1	INSULATOR						
	14	1	7T-3279	1	HOUSING AS						
	15	1	7T-3278	1	HOLDER AS-BRUSH						
	16	1	3T-3422	1	WIRE AS						
	17	1	8T-8566	1	TERMINAL AS						
NP	18	1	7L-2894	1	GASKET						
	19	1	6V-8188	4	NUT (1/2-13 THD)						
	20	1	7X-0562	4	WASHER-HARD (0.8MM THK)						
	21	1	8T-0328	3	WASHER-HARD (1MM THK)						
	22	1	7T-3451	1	INSULATOR-TERMINAL						
	23	1	8T-8569	1	INSULATOR-TERMINAL						
	24	1	9X-9511	1	SOLENOID AS						
	25	1	036-9821	1	WASHER						
	26	1	7T-3269	1	BOOT						
	27	1	7T-3270	1	PLUNGER AS						
	28	1	9M-7609	1	SPRING						
	29	1	4M-1828	1	RETAINER-SPRING						
	30	1	4M-1827	1	RETAINER-SPRING						
	31	1	4M-1831	1	PLUG-LEVER HOUSING						
	32	1	105-9702	1	HOUSING AS						
	33	1	9X-9510	1	HOUSING AS						
	34	1	7X-3373	6	BOLT (5/16-18X.88IN)						
	35	1	6N-3827	1	DRIVE AS-MOTOR						
Z	36	1		1	HOUSING						
JZ	37	1		4	SPRING						
JZ	38	1		4	BRUSH						
JZ	39	1		4	SCREW						
JPZ	40	1		6	SCREW AS.						
JPZ	41	1		1	SEAL (O-RING)						
LZ	42	1		3	INSULATOR						
LZ		1		1	BUSHING						
NZ	43	1		1	LEVER AS.						
NPZ	45	1		1	NUT						
NPZ	46	1		1	SEAL (O-RING)						
PZ	47	1		1	SEAL (O-RING)						
Z	48	1		1	RETAINER						
PZ	49	1		1	GASKET (WASHER)						
PZ	50	1		1	BUSHING						
PZ	51	1		2	CUP (PLUG)						
PZ	52	1		1	PLUG-PIPE						
PZ	53	1		1	PLUG						
PZ	54	1		1	WICK						

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC (contd.)

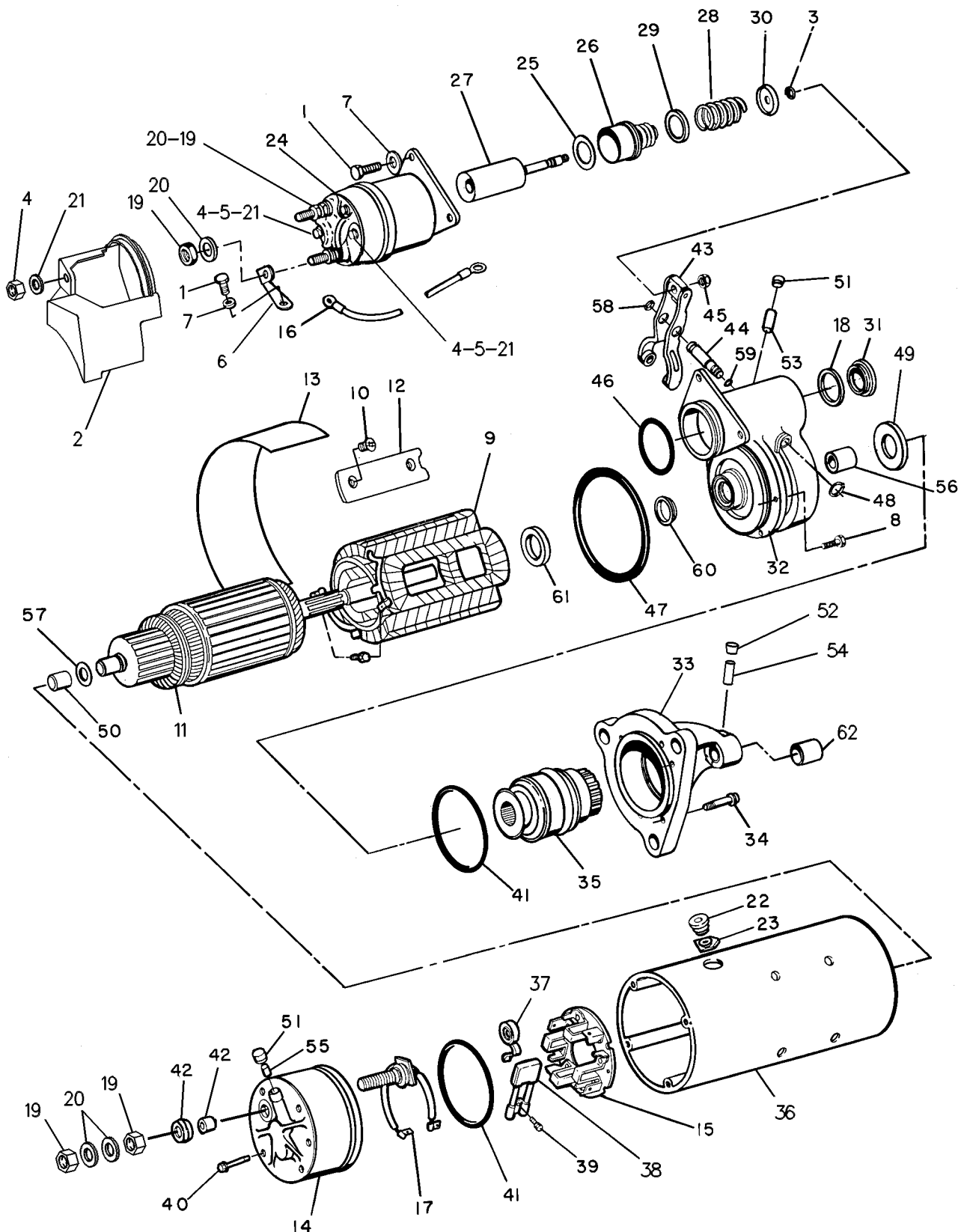
i00617911

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
PZ	55	1		1	PLUG						
PZ	56	1		1	BUSHING						
PZ	57	1		1	WASHER						
NZ	58	1		1	SEAL (O-RING)						
NZ	59	1		1	SEAL (O-RING)						
PZ	60	1		1	RETAINER (SEAL)						
PZ	61	1		1	SPACER						
PZ	62	1		1	BUSHING						
AVAILABLE REPAIR KIT(S) :											
J			8C-3655	1	KIT-BRUSH						
P			7T-3267	1	KIT-BUSHING						
N			7T-3268	1	KIT-LEVER						
L			8T-9884	1	KIT-INSULATOR						
J-KIT MARKED J INCLUDES PARTS MARKED J L-KIT MARKED L INCLUDES PARTS MARKED L N-KIT MARKED N INCLUDES PARTS MARKED N P-KIT MARKED P INCLUDES PARTS MARKED P Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC (contd.)

i00617911



GRAPHIC #1

g00239998

ELECTRICAL AND STARTING SYSTEM

104-7040 STARTING MOTOR GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

PART OF 201-4204 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 106-8558—PAGE 171

SMCS-1453

i01175161

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	6V-5720	1	STARTING MOTOR GP-ELECTRIC						164
			—OR—						
Y	106-8557	1	STARTING MOTOR GP-ELECTRIC						170
Y-SEPARATE ILLUSTRATION									

ELECTRICAL AND STARTING SYSTEM

106-8557 STARTING MOTOR GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

PART OF 104-7040, 106-8558 STARTING MOTOR GP-ELECTRIC

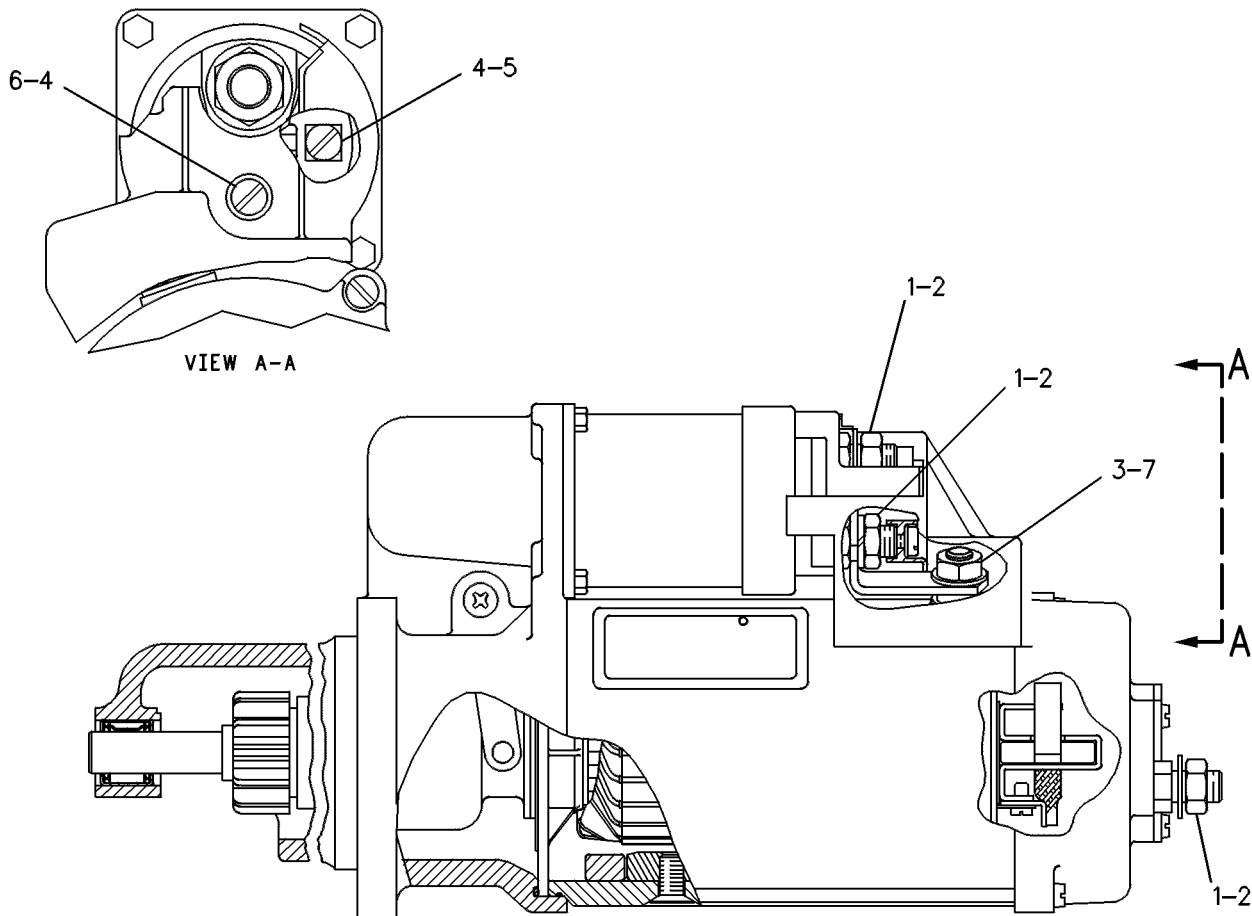
FIELD REPLACEMENT ORDER 106-8558-PAGE 171

SMCS-1453

i00127831

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4244	3	NUT (M12X1.75 THD)						
	2	1	7X-0562	3	WASHER-HARD (0.8MM THK)						
M	3	1	8T-4133	1	NUT (M10X1.50 THD)						
M	4	1	9X-2036	2	SCREW-PAN HEAD						
	5	1	8F-1434	1	LOCKWASHER (5MM ID)						
	6	1	8T-0328	1	WASHER-HARD (1MM THK)						
	7	1	8T-4121	1	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00108504

ELECTRICAL AND STARTING SYSTEM

106-8558 STARTING MOTOR GP-ELECTRIC*R

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

FIELD REPLACEMENT FOR 104-7040-PAGE 169: FOR 6V-5720-PAGE 164: FOR
106-8557-PAGE 170: FOR 106-8559-PAGE 172

SMCS-1453

i00735586

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	106-8557	1	STARTING MOTOR GP-ELECTRIC						170
			-OR-						
Y	106-8559	1	STARTING MOTOR GP-ELECTRIC						172
Y-SEPARATE ILLUSTRATION									

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

24 VOLT

PART OF 106-8558 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 106-8558-PAGE 171

SMCS-1453

101517590

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	3E-7859	1	SOLENOID AS-STARTER (24 VOLT)	
	2	1	5S-7349	4	BOLT (1/4-20X0.5 IN)	
	3	1	6V-8188	4	NUT (1/2-13 THD)	
	4	1	4M-1828	1	RETAINER-SPRING	
J	5	1	036-9821	1	WASHER	
	6	1	7T-3269	1	BOOT	
	7	1	7T-3270	1	PLUNGER AS	
	8	1	9M-7609	1	SPRING	
	9	1	4M-1827	1	RETAINER-SPRING	
	10	1	102-9863	1	TERMINAL AS-STARTER	
	11	1	4M-1831	1	PLUG-LEVER HOUSING	
JLP	12	1	7L-2894	1	GASKET	
	13	1	7X-1952	1	HOUSING AS-LEVER	
	14	1	3E-7858	1	HOUSING AS-STARTER	
	15	1	3E-7857	1	DRIVE AS-STARTING MOTOR	
	16	1	036-9823	5	BOLT	
	17	1	7X-3373	6	BOLT (5/16-18X0.88 IN)	
	18	1	3F-0379	8	SCREW-POLE SHOE	
	19	1	3E-7855	1	ARMATURE AS-STARTER (24 VOLT)	
	20	1	7X-1950	4	SHOE-POLE	
	21	1	3E-7852	1	COIL-STARTING MOTOR	
	22	1	106-7149	1	HOUSING AS-STARTER	
	23	1	9X-4821	1	PLATE AS	
JZ	24	1		1	SPACER	
PZ	25	1		1	RING	
	26	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)	
	27	1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)	
	28	1	4B-2049	2	NUT (10-32 THD)	
	29	1	8F-1434	1	LOCKWASHER	
	30	1	2H-3429	1	RING-RETAINING	
LZ	31	1		4	SCREW	
JZ	32	1		1	RETAINER	
PZ	33	1		1	LEVER AS	
	34	1	3E-7853	1	TERMINAL-STARTING MOTOR	
PZ	35	1		1	SHAFT AS	
JZ	36	1		1	RING	
JZ	37	1		1	WASHER	
	38	1	7X-0562	4	WASHER-HARD (13.5X19X0.8MM THK)	
	39	1	7T-3454	1	INSULATOR	
	40	1	7T-3451	1	INSULATOR-TERMINAL	
	41	1	8T-8569	1	INSULATOR-TERMINAL	
	42	1	9X-4271	1	CONNECTOR	
JLZ	43	1		1	SEAL-O-RING	
LZ	44	1		4	SCREW	
LZ	45	1		4	SCREW AS	
LZ	46	1		4	BRUSH	
LZ	47	1		4	SPRING	
JZ	48	1		2	BUSHING	
JZ	49	1		1	BUSHING	
JZ	50	1		3	PLUG	
JZ	51	1		3	CUP	
JZ	52	1		1	WASHER	
PJZ	53	1		1	NUT	
PZ	54	1		1	SEAL	

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC (contd.)

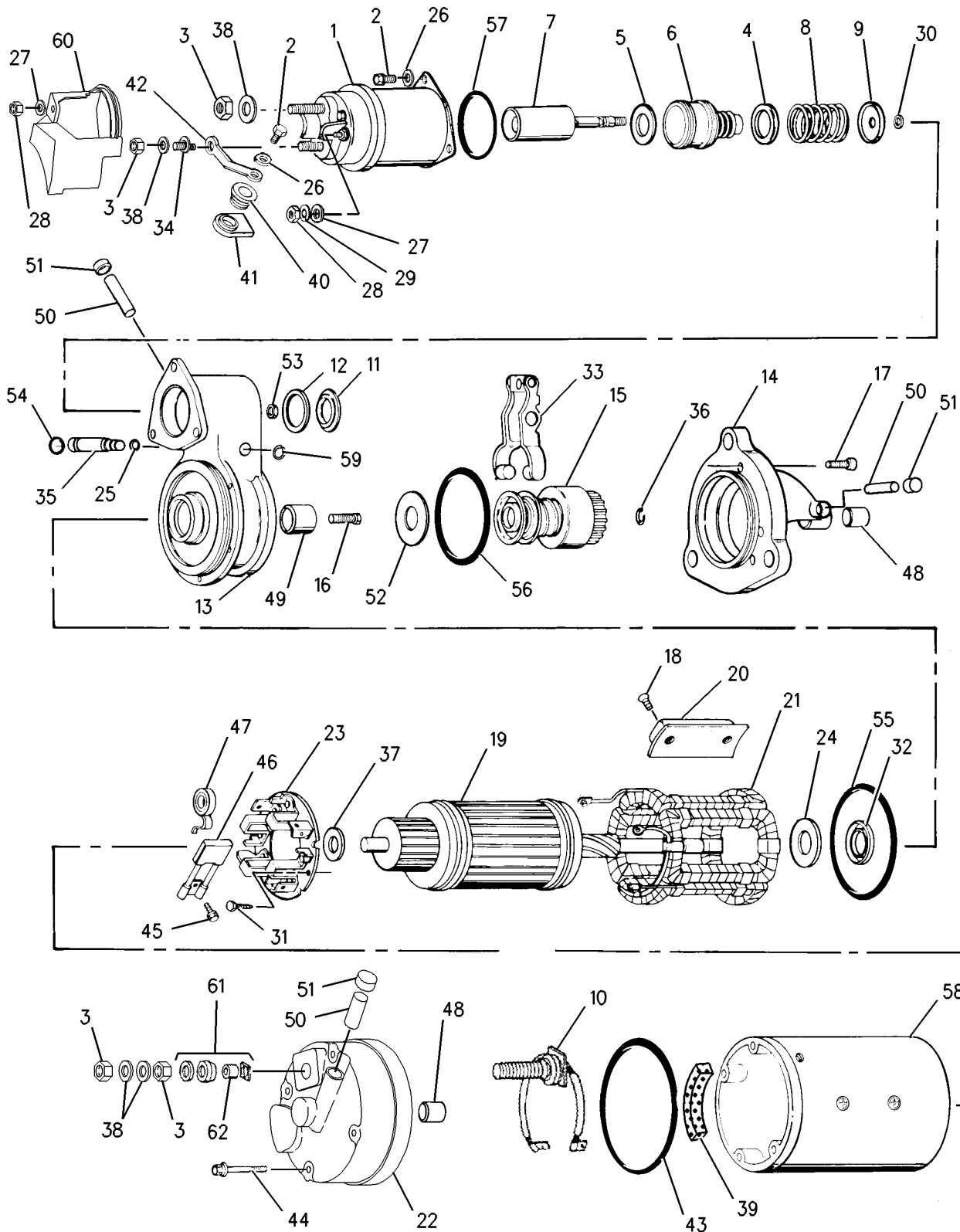
i01517590

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
PJZ	55	1		1	SEAL -O -RING						
JPZ	56	1		1	SEAL -O -RING						
JZ	57	1		1	SEAL -O -RING						
Z	58	1		1	HOUSING						
PZ	59	1		1	RETAINER						
	60	1	9X-4824	1	COVER-STARTING MOTOR						
NZ	61	1		3	INSULATOR						
NZ	62	1		1	BUSHING						
AVAILABLE REPAIR KIT(S) :											
J			3E-7860	1	KIT-BUSHING						
L			9X-4825	1	KIT-BRUSH (STARTER)						
P			3E-7861	1	KIT-LEVER						
N			8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
J-KIT MARKED J SERVICES PART(S) MARKED J											
L-KIT MARKED L SERVICES PART(S) MARKED L											
N-KIT MARKED N SERVICES PART(S) MARKED N											
P-KIT MARKED P SERVICES PART(S) MARKED P											
Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC (contd.)

i01517590



GRAPHIC #1

g00707672

ELECTRICAL AND STARTING SYSTEM

128-5626 STARTING MOTOR GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

COLD WEATHER STARTING

PART OF 186-1311 STARTING AR-COLD WEATHER
AN ATTACHMENT

SMCS-1453

i01412137

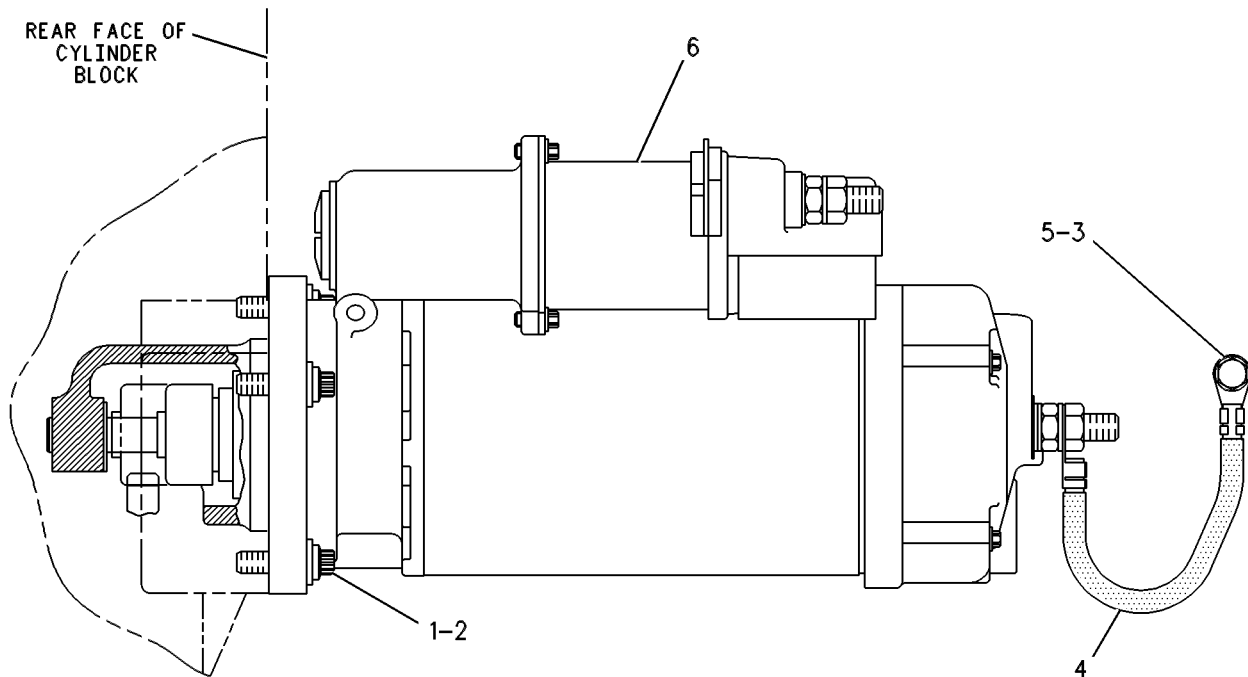
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	118-9573	3	BOLT-12 POINT HEAD						
	2	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
M	3	1	8T-4200	1	BOLT (M8X1.25X16MM)						
	4	1	8Y-9603	1	CABLE AS-STARTING (GROUND)						
E		1	5P-0747	1	CABLE (00GA) (28CM)						
		1	1S-7251	1	TERMINAL-RING (FOR 1/2 IN BOLT)						
		1	1S-7252	1	TERMINAL-RING (FOR 3/8IN BOLT)						
	5	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
YR	6	1	6V-5821	1	STARTING MOTOR GP-ELECTRIC						166

E-ORDER BY THE CENTIMETER

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW

GRAPHIC #1

g00259224

ELECTRICAL AND STARTING SYSTEM

7N-0719 SWITCH GP-DISCONNECT

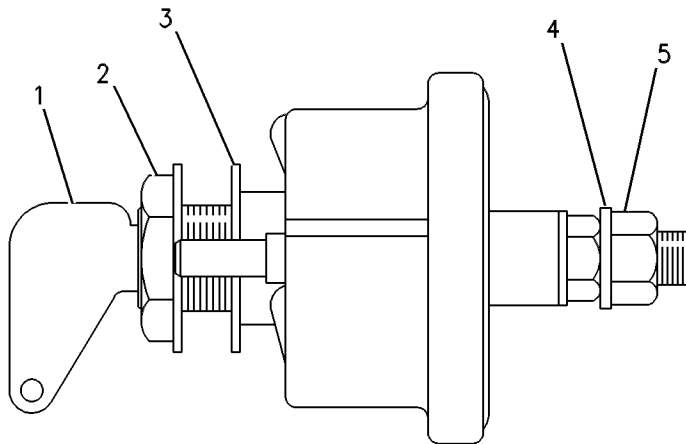
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 205-1885 PANEL GP-CIRCUIT BREAKER

SMCS-1411

i01289277

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8H-5306	1	KEY (BATTERY DISCONNECT)						
	2	1	8H-5303	1	NUT (3/4-16-2A THD)						
	3	1	2H-3922	2	LOCKWASHER (19.9X31.3X1.3MM THK)						
	4	1	9F-5644	2	LOCKWASHER (9.93X17.3X.9MM THK)						
	5	1	6F-7045	2	NUT-FULL (3/8X24 THD)						



GRAPHIC #1

g00117885

ELECTRICAL AND STARTING SYSTEM

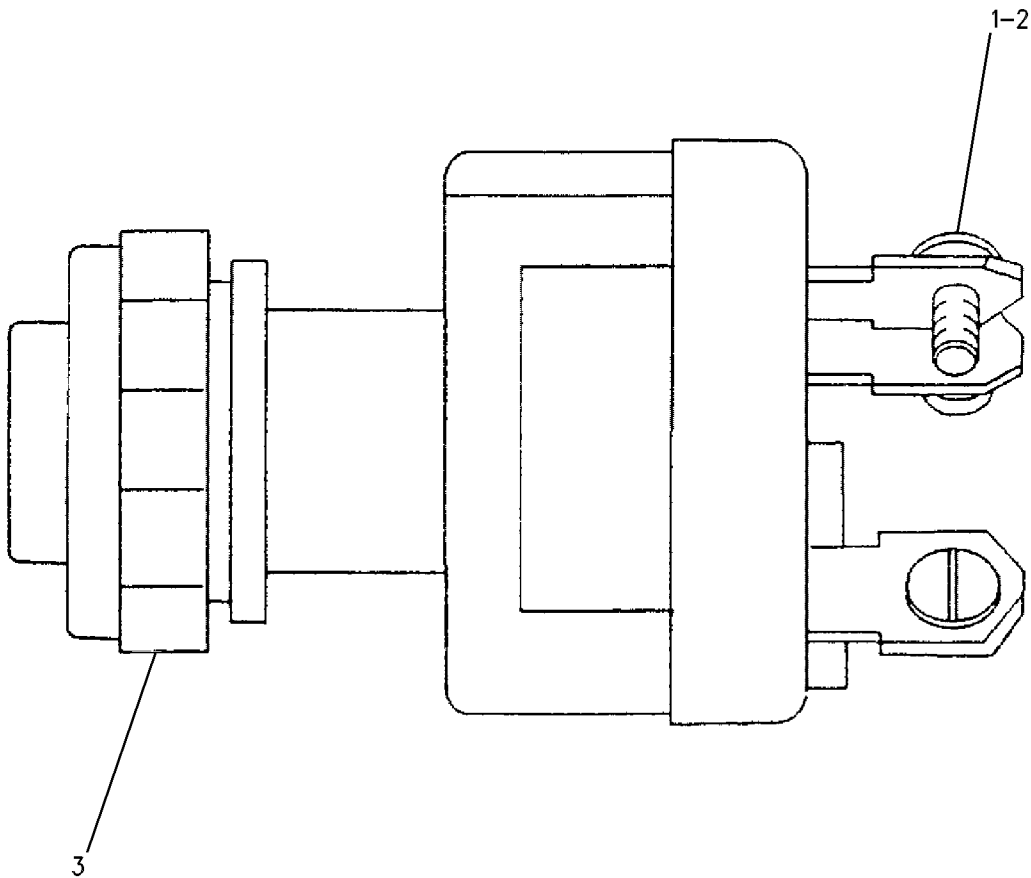
9G-7641 SWITCH GP-START

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 193-3551 WIRING GP-CONSOLE

SMCS-1416

i01449535

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8362	4	SCREW-MACHINE (8-32X0.31 IN)						
	2	1	9B-7233	4	LOCKWASHER						
	3	1	7T-6799	1	NUT-MOUNTING						



GRAPHIC #1

g00606018

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

192-2335 WIRING GP-CAB

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2334 CAB GP

SMCS-7301

i01548733

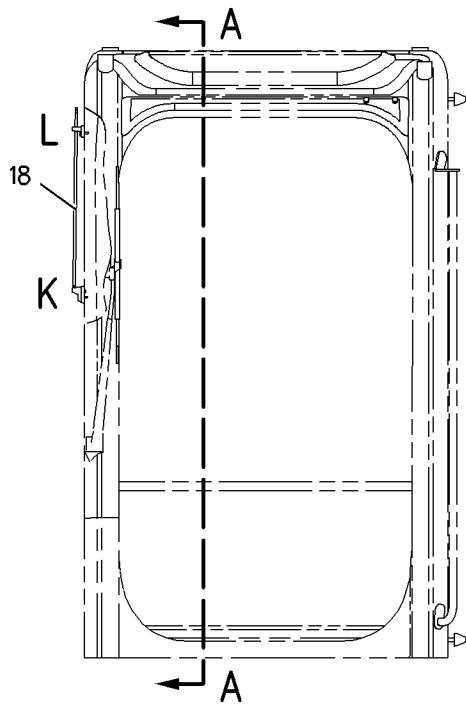
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9W-1494	1	KIT-SERVICE METER						
		1	8T-0701	1	FILM-SERVICE METER						
	2	2	9W-0335	1	LIGHTER AS (CIGAR) (24 VOLT)						
E	3	2	4I-3064		GUARD (10CM)						
	4	2	163-6795	16	STRAP						
	5	2	198-5959	1	HARNESS AS						
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)						
		2	155-2270	1	KIT-CONNECTING PLUG (2 PIN)						
M	6	2	8T-6693	2	SCREW-MACHINE (M5X0.8X16MM)						
	7	1,2	8T-0328	8	WASHER-HARD (5.5X10X1MM THK)						
	8	2	163-6810	1	HARNESS AS						
M	9	1	7Y-5226	2	NUT (M5X0.8 THD)						
M	10	1	095-0736	2	SCREW-MACHINE (M5X0.8X10MM)						
	11	1	096-5962	4	WASHER-HARD (3.4X7X0.8MM THK)						
	12	1	163-6701	1	PANEL AS-CONTROL						
	13	2	132-1829	1	ALARM GP						
		2	8T-8729	2	PIN-CONNECTOR						
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)						
M	14	2	9X-2042	1	SCREW-TRUSS HEAD (M6X1X12MM)						
	15	2	7K-1181	2	STRAP-CABLE						
M	16	1	6V-9669	2	SCREW-MACHINE (M3X0.5X8MM)						
M	17	1	3C-6969	2	NUT (M3X0.5 THD)						
	18	1	167-3492	1	ANTENNA AS						
		1	7Y-5285	1	SCREW AS						
		1	106-0035	1	ROD AS-ANTENNA						
M	19	1	197-0393	2	BOLT-SOCKET HEAD						
	20	2	163-6722	1	SWITCH AS-ROCKER (FINE SWING CONTROL)						
	21	2	195-8867	1	MONITOR GP-OPERATOR						
		2	195-8866	1	SOFTWARE GP-MONITOR						
M	22	2	9X-2040	2	SCREW-TRUSS HEAD (M10X1.5X25MM)						
M	23	1	8T-4970	2	BOLT (M6X1X14MM)						
	24	1,3	9X-8256	4	WASHER (6.6X12X2MM THK)						
	25	2	167-7083	1	SENSOR AS						
M	26	3	8T-6411	2	SCREW-MACHINE (M6X1X12MM)						
	27	2	168-4605	1	CONTROL PANEL-AIR CLEANER						
	28	2	169-5509	1	HARNESS AS-AIR CONDITIONER (TO KEYPAD & SUN SENSOR)						
M	29	2	8T-0286	2	BOLT (M5X0.8X8MM)						
	30	2	167-3527	1	HARNESS AS						
		2	102-8806	1	KIT-RECEPTACLE (8 PIN)						
		2	155-2265	1	KIT-CONNECTING PLUG (8 PIN)						
		2	102-8806	1	KIT-RECEPTACLE (8 PIN)						
		2	155-2265	1	KIT-CONNECTING PLUG (8 PIN)						
	31	2,3	3S-2093	6	STRAP-CABLE						
	32	3	134-1346	1	CONVERTER GP-ELECTRICAL						
E	33	3	101-2846		GUARD (18CM)						
M	34	3	8T-4180	8	SCREW-MACHINE (M5X0.8X20MM)						
	35	3	6T-7695	2	SPEAKER AS-RADIO						
	36	1	167-7023	1	BRACKET						
	37	2	117-2311	2	RECEPTACLE AS-POWER (12 VOLT)						

E-ORDER BY THE CENTIMETER
M-METRIC PART

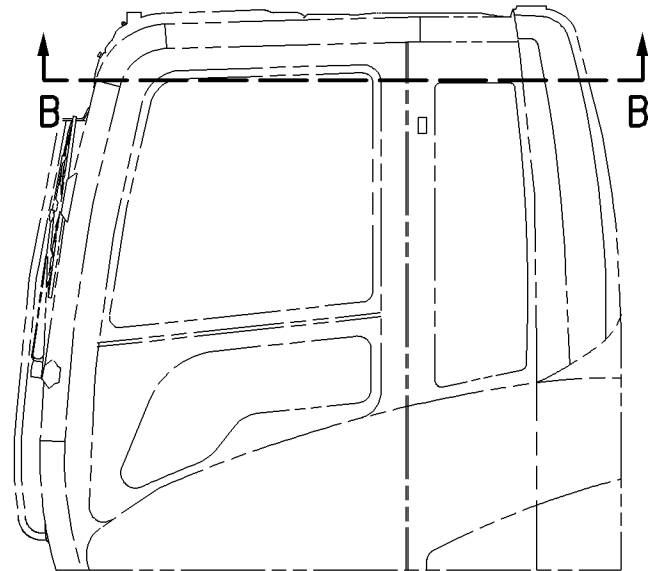
ELECTRICAL AND STARTING SYSTEM

192-2335 WIRING GP-CAB (contd.)

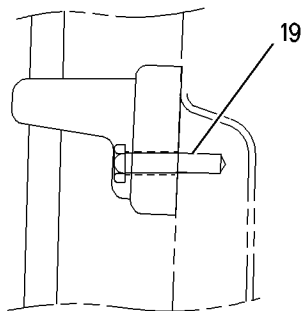
i01548733



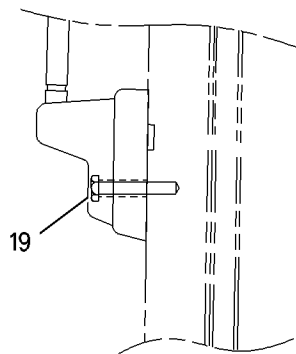
FRONT VIEW



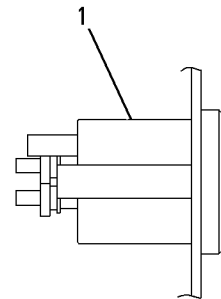
LEFT SIDE VIEW



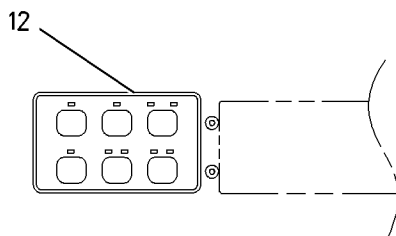
VIEW OF AREA L



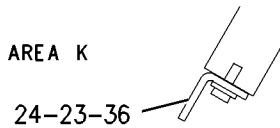
VIEW OF AREA K



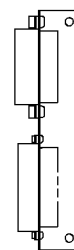
VIEW J-J



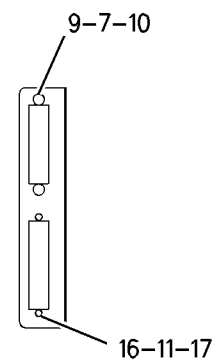
VIEW F-F



24-23-36



VIEW D-D



16-11-17

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

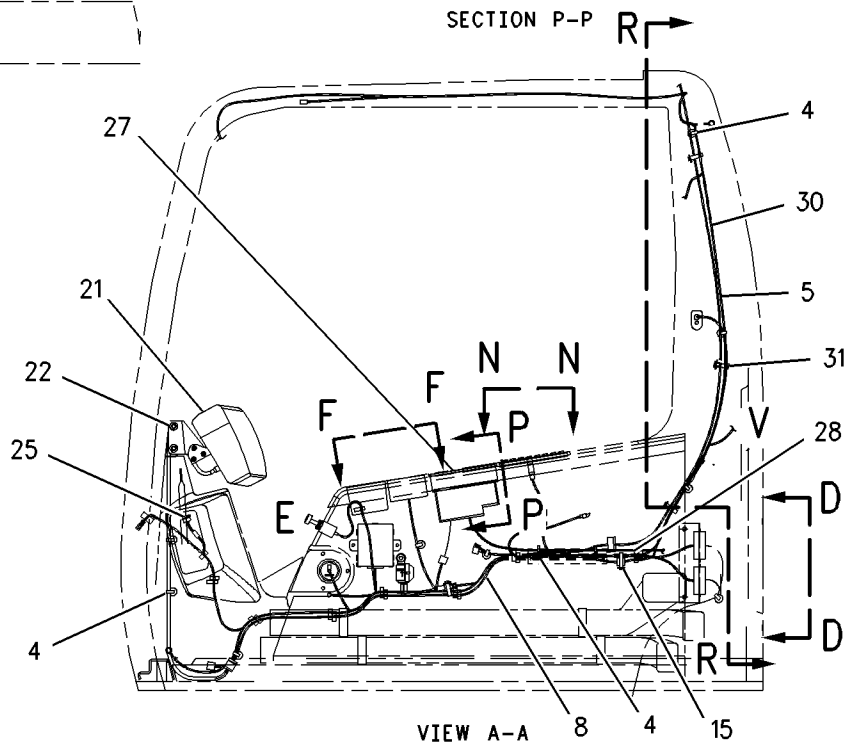
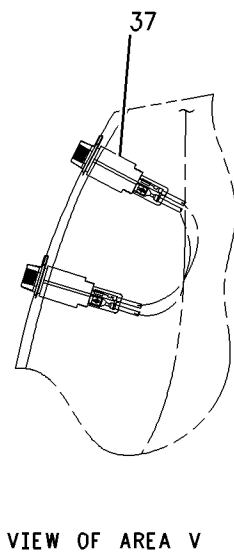
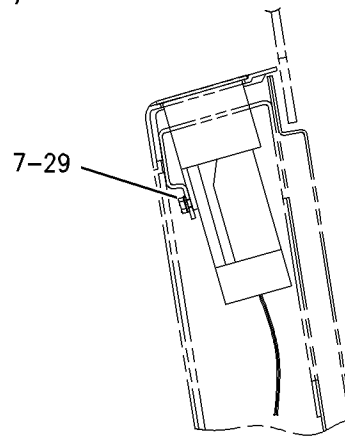
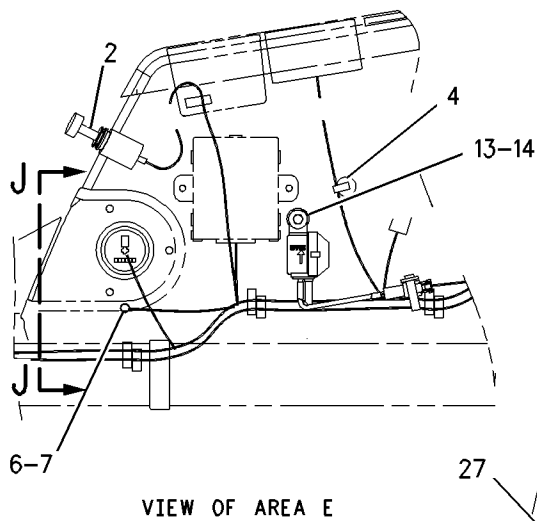
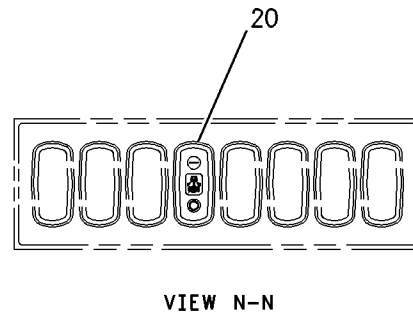
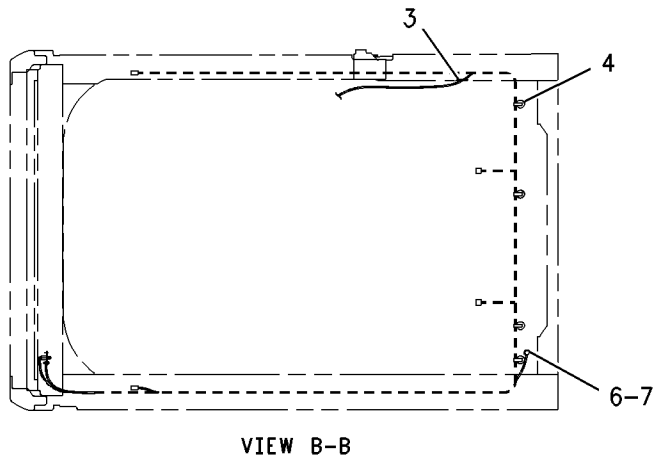
GRAPHIC #1

g00801877

ELECTRICAL AND STARTING SYSTEM

192-2335 WIRING GP-CAB (contd.)

i01548733

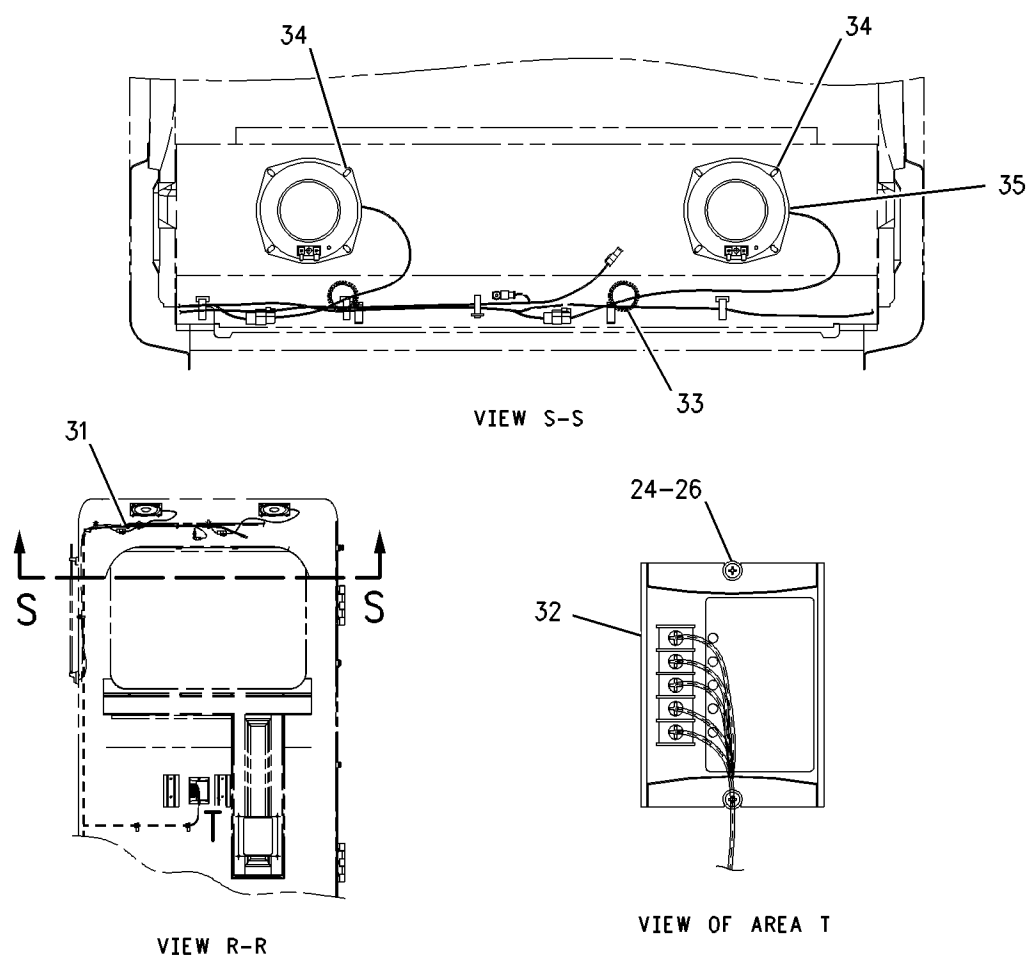


REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

ELECTRICAL AND STARTING SYSTEM

192-2335 WIRING GP-CAB (contd.)

i01548733



GRAPHIC #3

g00801920

ELECTRICAL AND STARTING SYSTEM

205-8750 WIRING GP-CAB RISER

S/N: BPH1-UP; CAM1-UP

PART OF 192-2339 RISER AR-CAB

SMCS-1408

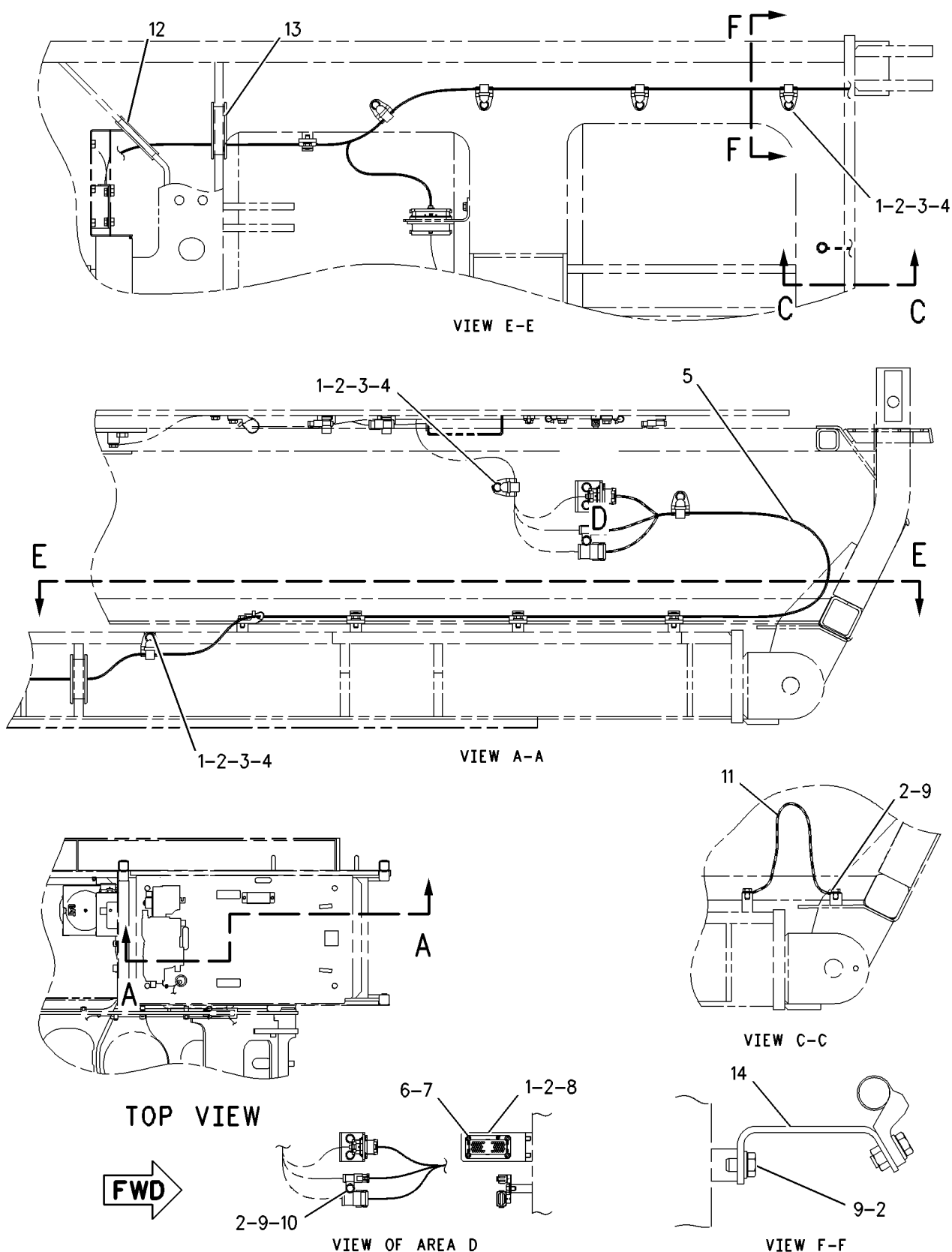
i01513077

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4137	9	BOLT (M10X1.5X20MM)						
	2	1	8T-4121	13	WASHER-HARD (11X21X2.5MM THK)						
	3	1	111-4838	7	CLIP						
	4	1	111-4839	7	STRAP						
	5	1	205-8727	1	HARNESS AS						
		1	102-8805	2	KIT-RECEPTACLE (6 PIN)						
		1	102-8801	1	KIT-RECEPTACLE (12 PIN)						
		1	155-2255	1	KIT-CONNECTING PLUG (12 PIN)						
		1	155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
M	6	1	5C-7883	4	BOLT-SOCKET HEAD (M6X1.0X16MM)						
	7	1	9X-8256	4	WASHER (6.6X12X2MM THK)						
	8	1	163-6786	1	BRACKET						
M	9	1	8T-4191	4	BOLT (M10X1.5X16MM)						
	10	1	116-0118	2	CLIP						
	11	1	128-8886	1	STRAP AS-GROUND						
	12	1	145-0603	1	GROMMET						
	13	1	5I-4366	1	GROMMET						
	14	1	151-6667	1	SUPPORT AS						
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)						
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

205-8750 WIRING GP-CAB RISER (contd.)

i01513077



GRAPHIC #1

g00797672

ELECTRICAL AND STARTING SYSTEM

205-8751 WIRING GP-CAB RISER

S/N: CBY1-UP

PART OF 192-2340 RISER AR-CAB

SMCS-1408

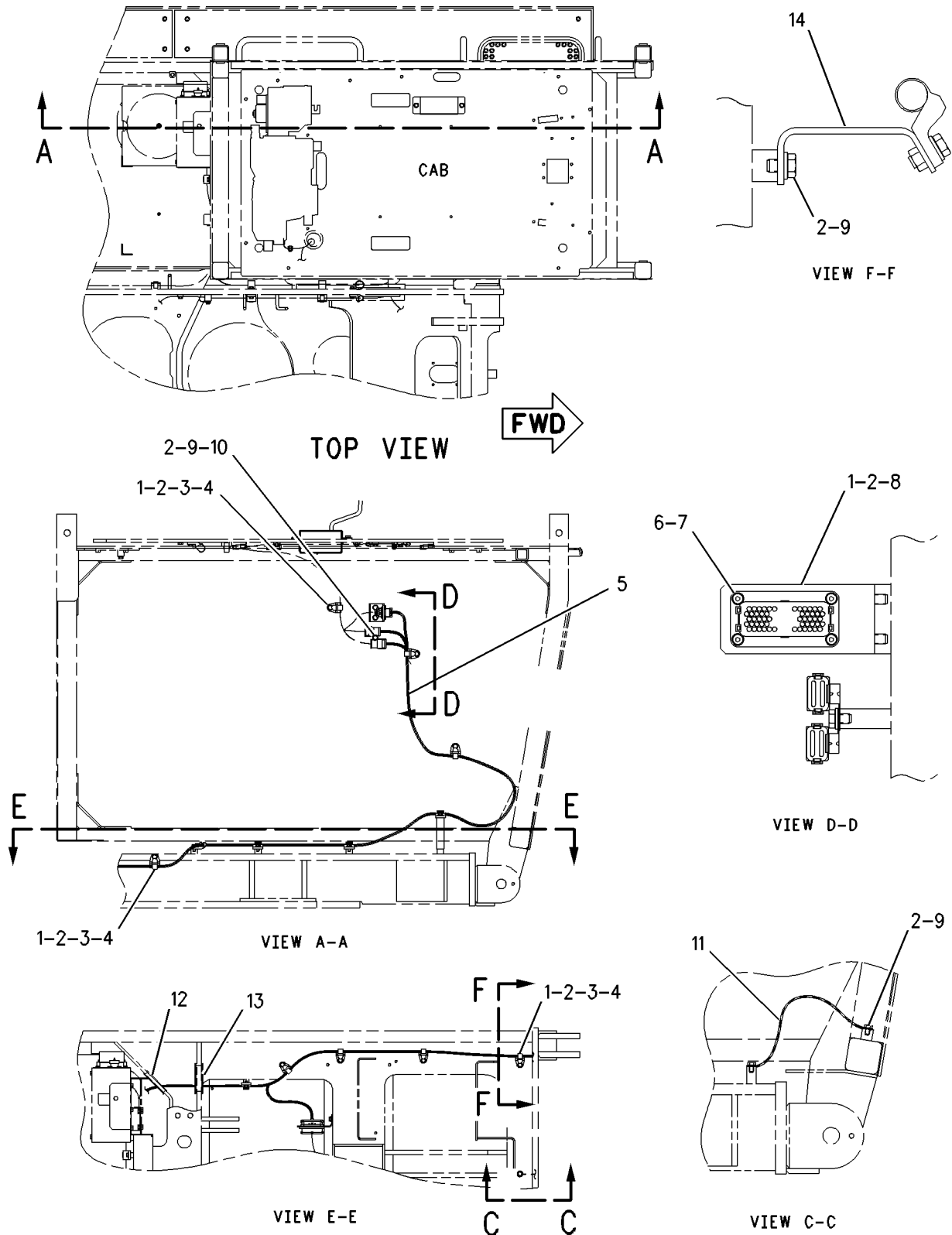
i01518108

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4137	10	BOLT (M10X1.5X20MM)						
	2	1	8T-4121	14	WASHER-HARD (11X21X2.5MM THK)						
	3	1	111-4838	8	CLIP						
	4	1	111-4839	8	STRAP						
	5	1	205-8729	1	HARNESS AS						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)						
		1	102-8801	1	KIT-RECEPTACLE (12 PIN)						
		1	155-2255	1	KIT-CONNECTING PLUG (12 PIN)						
		1	155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
M	6	1	5C-7883	4	BOLT-SOCKET HEAD (M6X1.0X16MM)						
	7	1	9X-8256	4	WASHER (6.6X12X2MM THK)						
	8	1	163-6786	1	BRACKET						
M	9	1	8T-4191	4	BOLT (M10X1.5X16MM)						
	10	1	116-0118	2	CLIP						
	11	1	128-8886	1	STRAP AS-GROUND						
	12	1	145-0603	1	GROMMET						
	13	1	5I-4366	1	GROMMET						
	14	1	151-6667	1	SUPPORT AS						
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)						
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

205-8751 WIRING GP-CAB RISER (contd.)

i01518108



GRAPHIC #1

g00787980

ELECTRICAL AND STARTING SYSTEM

170-6909 WIRING GP-CONSOLE-LH

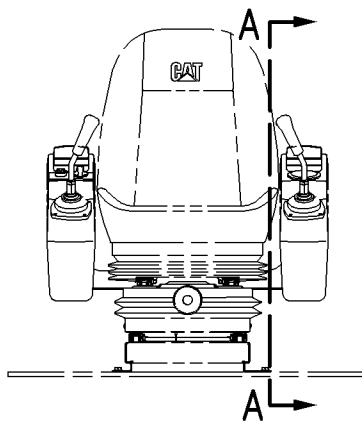
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 193-3555 WIRING GP-CONSOLE

SMCS-1408

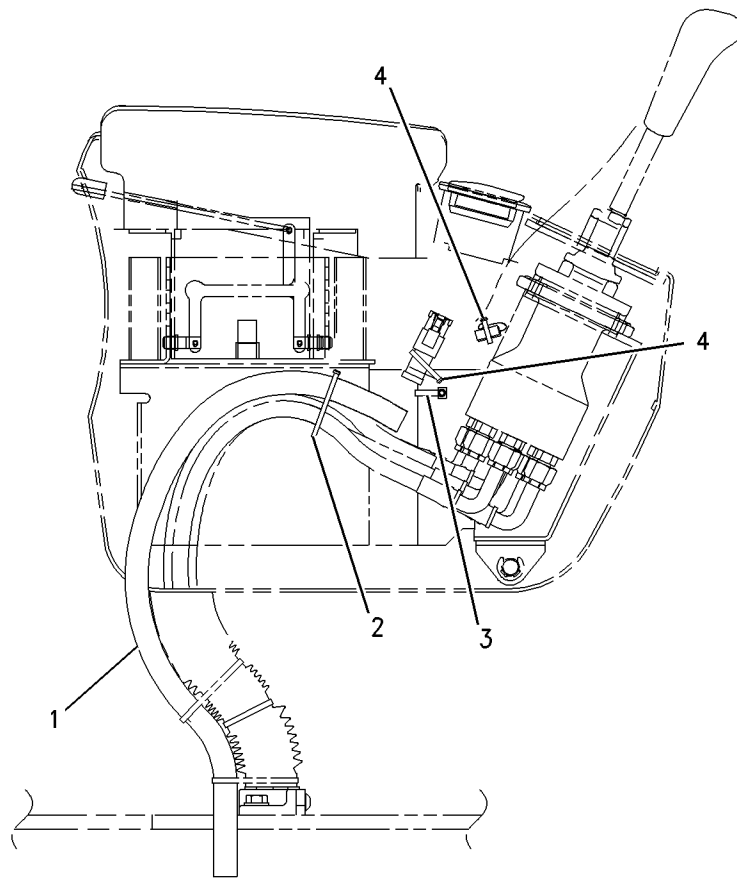
i01354517

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	170-6959	1	HARNESS AS						
B	2	1	7K-1181	1	STRAP-CABLE (4IN DIA)						
	3	1	163-6795	1	STRAP						
B	4	1	3S-2093	2	STRAP-CABLE						

B-USE AS REQUIRED



FRONT VIEW



SECTION A-A

GRAPHIC #1

g00715575

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

193-3551 WIRING GP-CONSOLE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

RH

PART OF 193-3555 WIRING GP-CONSOLE

SMCS-1408

i01510801

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	163-6795	1	STRAP	
D	2	1	6V-5738		TRIM-EDGE (.13M)	
	3	1	163-6710	1	SWITCH AS (EPR VALVE BACK-UP)	
	4	1	163-6711	1	SWITCH AS (ENGINE SPEED BACK-UP)	
	5	1	193-3552	1	HARNESS AS	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		1	102-8804	1	KIT-RECEPTACLE (4 PIN)	
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)	
		1	102-8801	1	KIT-RECEPTACLE (12 PIN)	
		1	155-2255	1	KIT-CONNECTING PLUG (12 PIN)	
		1	155-2271	1	KIT-CONNECTING PLUG (4 PIN)	
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN)	
		1	155-2274	1	KIT-CONNECTING PLUG (6 PIN)	
Y	6	1	9G-7641	1	SWITCH GP-START (KEY)	178
	7	1	163-6702	1	PANEL AS	
		1	170-9324	1	LAMP AS	
	8	1	113-3453	1	KNOB AS	
	9	1	106-0107	1	SWITCH AS-ROTARY (THROTTLE POSITION)	
		1	3E-3383	1	WEDGE-RECEPTACLE LOCK	
		1	8T-8729	5	PIN-CONNECTOR	
M		1	7Y-5458	1	NUT (M12X1.0)	
		1	7Y-5464	1	WASHER (M12.2X15.4X.5)	
		1	8T-8737	1	PLUG-SEAL	
		1	106-0210	1	SEAL	
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)	
	10	1	170-6828	1	HARNESS AS	
	11	1	119-5026	4	SCREW-PAN HEAD (10-16X0.63 IN)	
	12	1	3S-2093	3	STRAP-CABLE	
	13	1	7K-1181	1	STRAP-CABLE	

D-ORDER BY THE METER

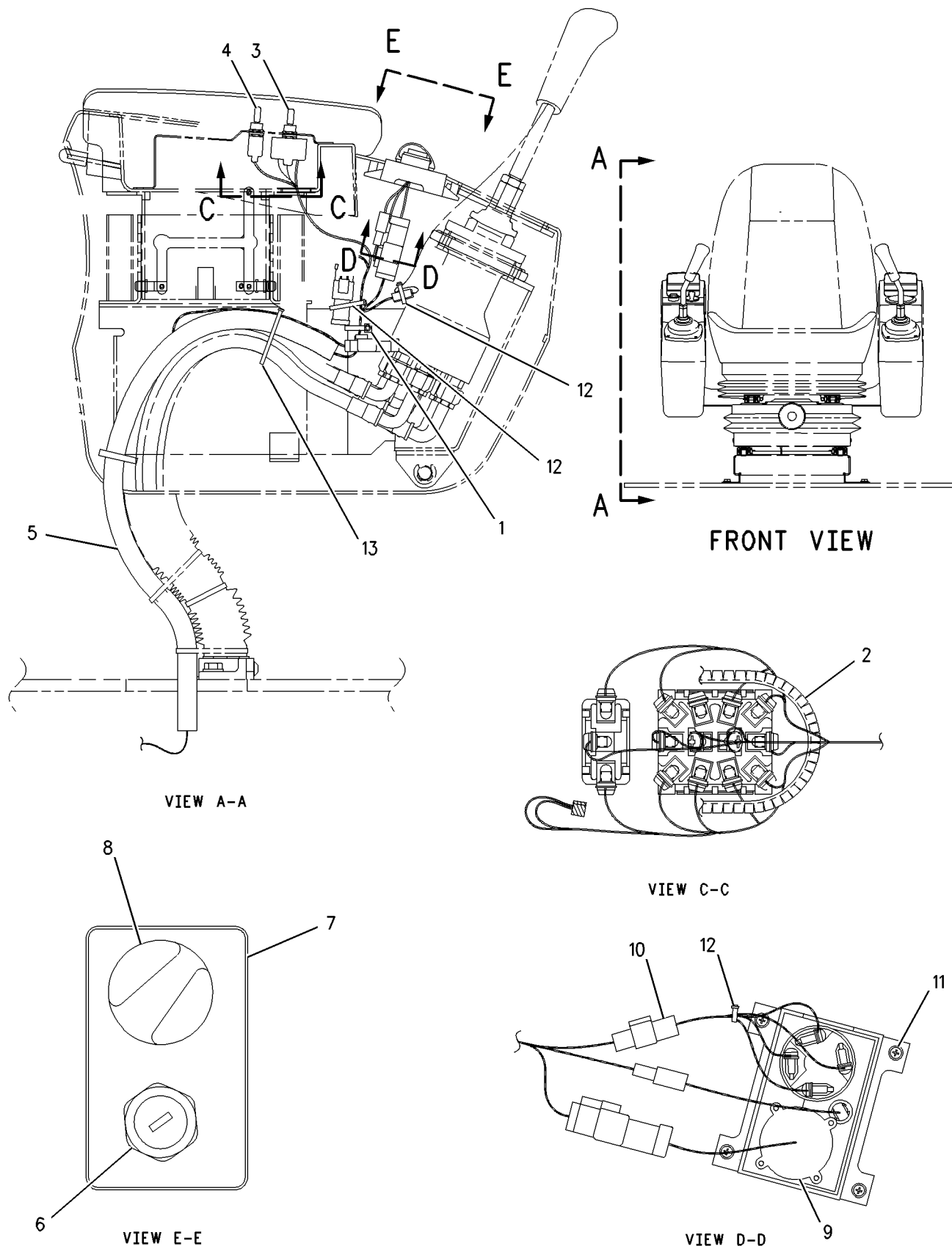
M-METRIC PART

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

193-3551 WIRING GP-CONSOLE (contd.)

i01510801



GRAPHIC #1

g00785086

ELECTRICAL AND STARTING SYSTEM

193-3555 WIRING GP-CONSOLE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-1408

i01509561

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	170-6909	1	WIRING GP-CONSOLE (LH)						188
Y	193-3551	1	WIRING GP-CONSOLE (RH)						190
Y-SEPARATE ILLUSTRATION									

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

205-9488 WIRING GP-WORK TOOL

S/N: BPH1-UP; CAM1-UP

GRAPPLE/ROTATE

PART OF 206-9388, 206-9389 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-1408

i01539770

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	2	7K-1181	2	STRAP-CABLE	
	2	1,2	3S-2093	21	STRAP-CABLE	
	3	2	116-0118	1	CLIP	
M	4	2	8T-4195	1	BOLT (M10X1.5X30MM)	
	5	2	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)	
	6	2	111-4836	1	CLIP	
	7	2	7I-2673	3	STRAP-CABLE	
	8	1	186-4711	1	BRACKET AS	
		1	7T-1099	2	LINK	
M	9	1	8T-4199	2	BOLT (M8X1.25X12MM)	
	10	1	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)	
	11	1	205-9436	1	HARNESS AS	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		1	102-8804	1	KIT-RECEPTACLE (4 PIN)	
Y	12	2	197-4259	1	PANEL GP-CIRCUIT BREAKER	149
	13	1	183-0998	1	HARNESS AS	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		1	102-8803	1	KIT-RECEPTACLE (3 PIN)	

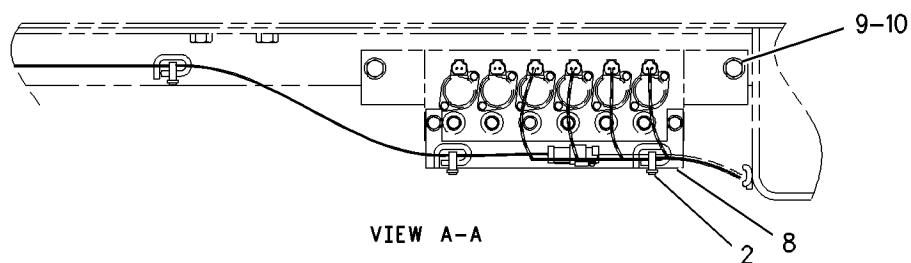
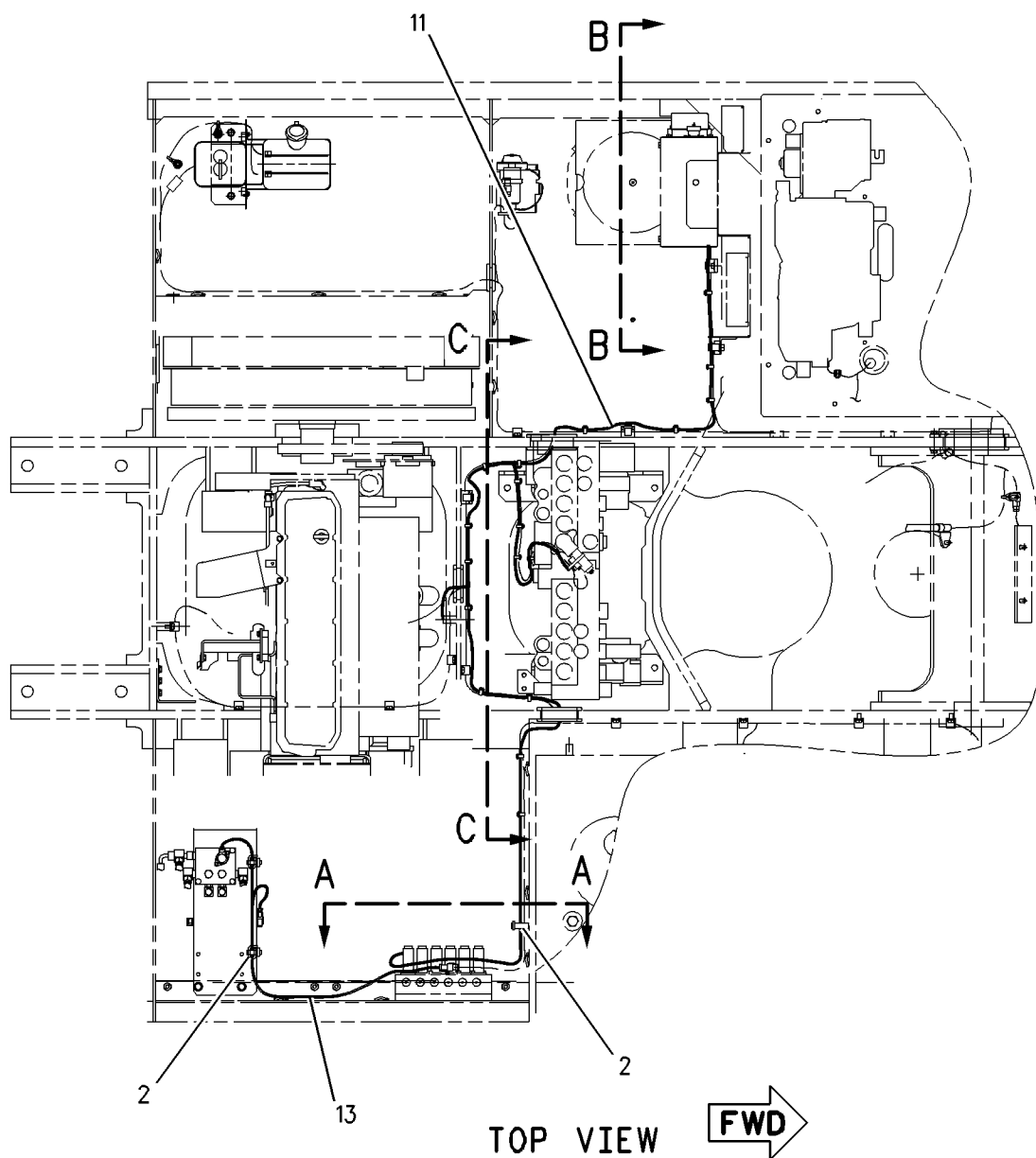
M-METRIC PART

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

205-9488 WIRING GP-WORK TOOL (contd.)

i01539770



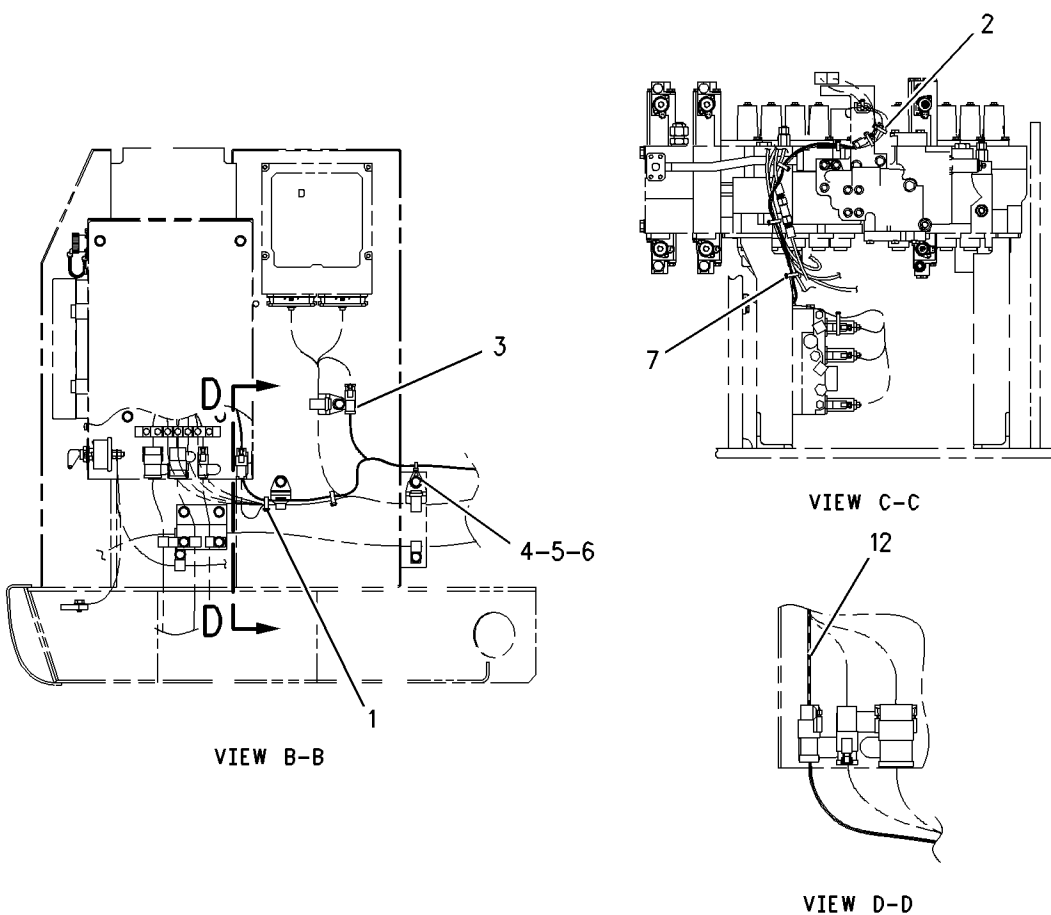
GRAPHIC #1

g00800204

ELECTRICAL AND STARTING SYSTEM

205-9488 WIRING GP-WORK TOOL (contd.)

i01539770



GRAPHIC #2

g00800207

POWER TRAIN

196-9371 FINAL DRIVE AR

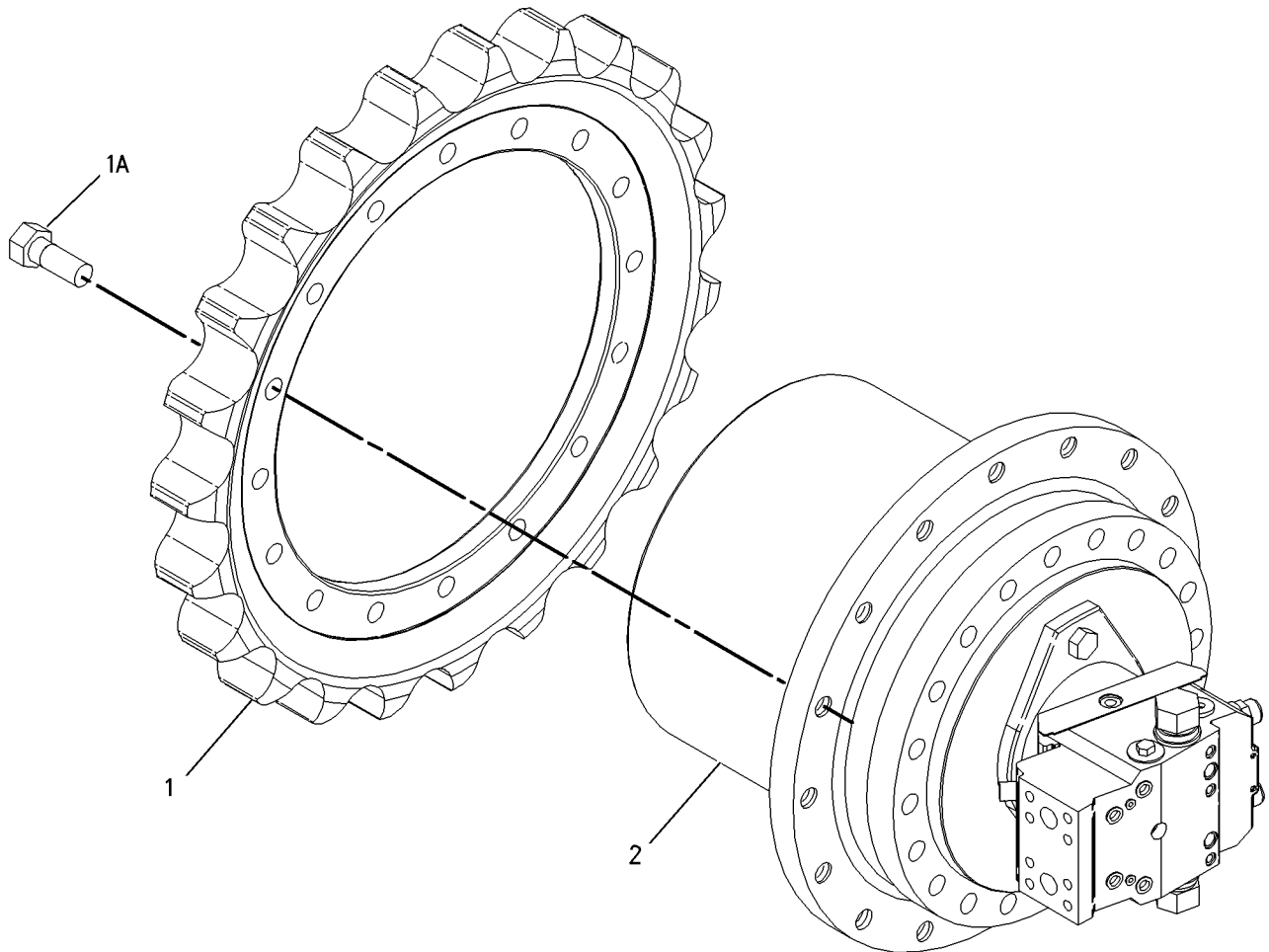
S/N: CAM1-UP; CBY1-UP

PART OF 192-2347 POWER TRAIN AR

SMCS-4050

i01547075

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-2994	1	SPROCKET GP -NONSEGMENTED						
M	1A	1	8T-6430	16	BOLT (M20X2.5X50MM)						
Y	2	1	191-2535	1	FINAL DRIVE GP						198
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00802865

POWER TRAIN

191-2535 FINAL DRIVE GP

S/N: CAM1-UP; CBY1-UP

PART OF 196-9371 FINAL DRIVE AR

SMCS-4050

i01508668

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	199-4521	1	FINAL DRIVE GP						
Y	187-4127	1	MOTOR GP-TRAVEL						486
Y-SEPARATE ILLUSTRATION									

MEMORANDA

POWER TRAIN

191-2673 FINAL DRIVE GP

S/N: BPH1-UP

W/O MOTOR

PART OF 200-4977 FINAL DRIVE GP

SMCS-4050

i01530291

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	169-5586	1	HOUSING-MOTOR						
	2	1	3T-8500	1	SEAL GP-DUO-CONE						
	3	1	168-8452	2	BALL BEARING						
	4	1	7Y-0595	3	SPACER						
	5	1	169-5596	1	STOP						
	6	1	171-9298	1	SEAL-O-RING						
	7	1	191-2676	1	GEAR-RING (72 TEETH)						
	8	1	169-5599	1	CARRIER-PLANETARY						
	9	1	169-5590	1	GEAR-SUN (24 TEETH)						
	10	1	191-2570	6	BEARING AS						
	11	1	169-5594	1	GEAR-RING						
	12	1	7M-8485	2	SEAL-O-RING						
	13	1	3E-2338	2	PLUG-PIPE						
	14	1	191-2678	1	CARRIER AS						
	15	1	093-1731	2	RING-RETAINING						
	16	1	169-5589	1	GEAR-SUN (24 TEETH)						
B	17	1	094-0578	1	PLATE (8MM THK)						
B	18	1	094-0579	1	PLATE (9MM THK)						
B	19	1	094-0580	1	PLATE (10MM THK)						
	20	1	191-2674	1	GEAR-SUN (25 TEETH)						
	21	1	191-2675	3	GEAR-PLANET (20 TEETH)						
	22	1	096-0433	3	RING-RETAINING						
	23	1	171-9297	6	WASHER						
	24	1	191-2677	3	BEARING AS						
M	25	1	9X-6032	12	BOLT-SOCKET HEAD (M10X1.5X30MM)						
M	26	1	179-8733	16	BOLT						
	27	1	8T-4123	16	WASHER-PLATED (22X35X3.5MM THK)						
	28	1	199-4503	1	COVER						
B	29	1	1U-8846		SEALANT-GASKET						
	31	1	191-2571	1	CARRIER-PLANETARY						
	32	1	169-5601	3	SHAFT-PLANETARY						
	33	1	169-5592	3	GEAR-PLANET (23 TEETH)						
	34	1	094-1528	12	WASHER (53X84X1MM THK)						
	35	1	095-0891	6	PIN-SPRING						
	36	1	169-5593	3	GEAR-PLANET (23 TEETH)						
	37	1	191-2569	3	BEARING AS						
	38	1	169-5602	3	SHAFT-PLANETARY						
	39	1	169-5608	1	HOUSING-SPROCKET						
M	40	1	096-3216	2	SETSCREW-SOCKET						

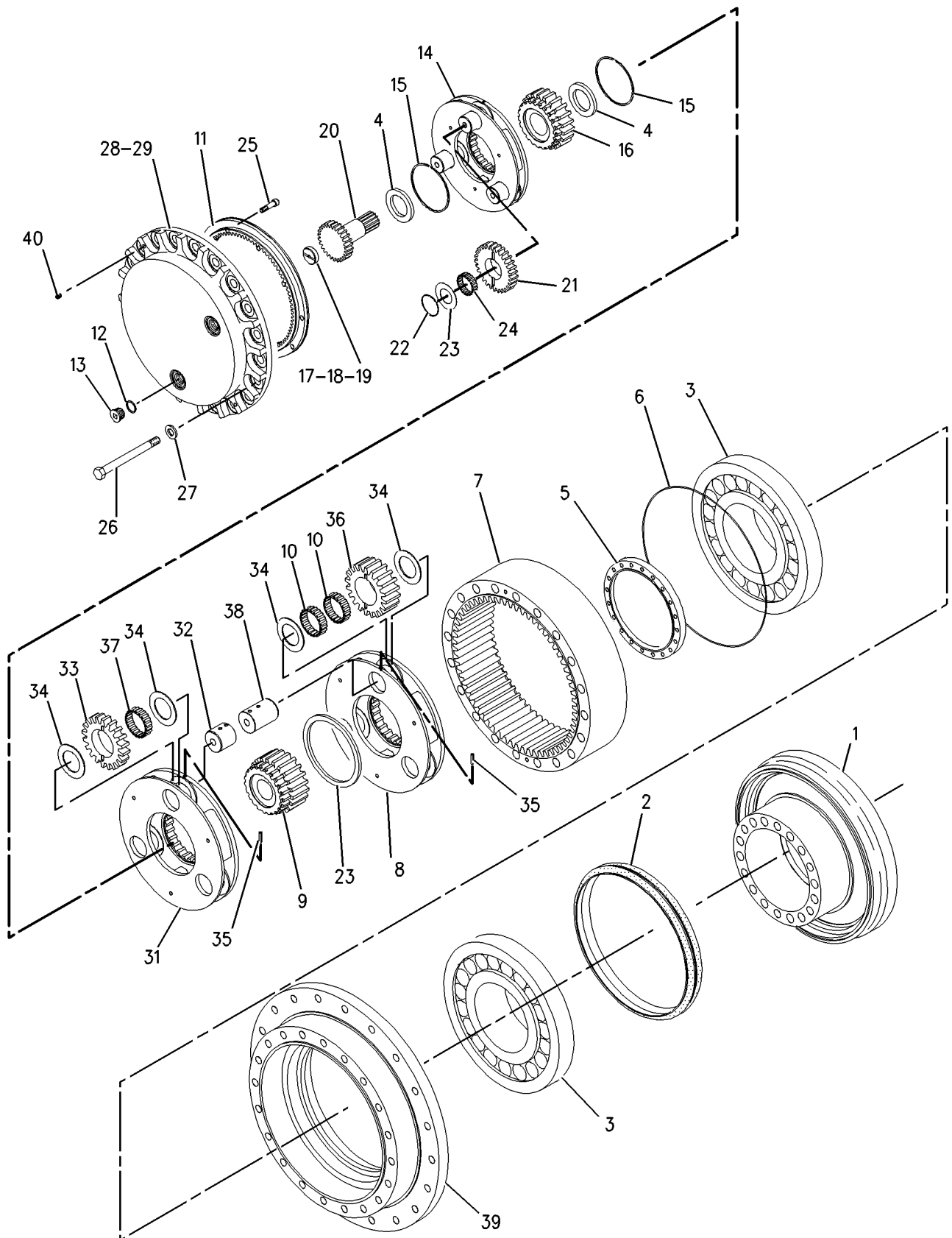
B-USE AS REQUIRED

M-METRIC PART

POWER TRAIN

191-2673 FINAL DRIVE GP (contd.)

i01530291



GRAPHIC #1

g00794607

POWER TRAIN

200-4977 FINAL DRIVE GP

S/N: BPH1-UP

WITH MOTOR

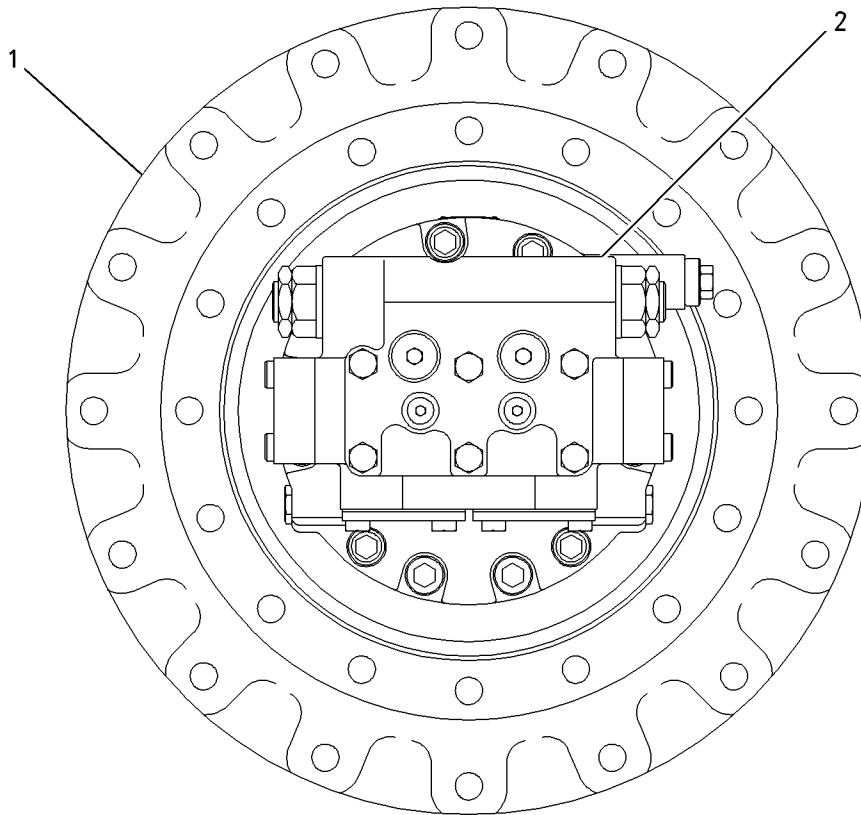
PART OF 200-6045 FINAL DRIVE GP

SMCS-4050

i01526358

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	191-2673	1	FINAL DRIVE GP	200
Y	2	1	134-7132	1	MOTOR & MTG GP-TRAVEL	478

Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

g00732467

POWER TRAIN

200-6045 FINAL DRIVE GP

S/N: BPH1-UP

WITH MOTOR & SPROCKET

PART OF 192-2346 POWER TRAIN AR

SMCS-4050

i01504447

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	145-3042	1	SPROCKET GP-NONSEGMENTED						206
Y	200-4977	1	FINAL DRIVE GP						202
Y-SEPARATE ILLUSTRATION									

POWER TRAIN

192-2346 POWER TRAIN AR

S/N: BPH1-UP

PART OF 192-2311 GENERAL AR

SMCS-3000, 4351

i01547076

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	191-2692	1	DRIVE GP-SWING						328
Y	171-9309	1	FASTENER GP-SWING & FINAL DR						332
Y	200-6045	2	FINAL DRIVE GP						203
Y-SEPARATE ILLUSTRATION									

POWER TRAIN

192-2347 POWER TRAIN AR

S/N: CAM1-UP; CBY1-UP
PART OF 192-2313, 192-2315 GENERAL AR

SMCS-3000, 4351

i01516916

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	191-2692	1	DRIVE GP-SWING						328
Y	171-9309	1	FASTENER GP-SWING & FINAL DR						332
Y	196-9371	2	FINAL DRIVE AR						197
Y-SEPARATE ILLUSTRATION									

POWER TRAIN

145-3042 SPROCKET GP-NONSEGMENTED

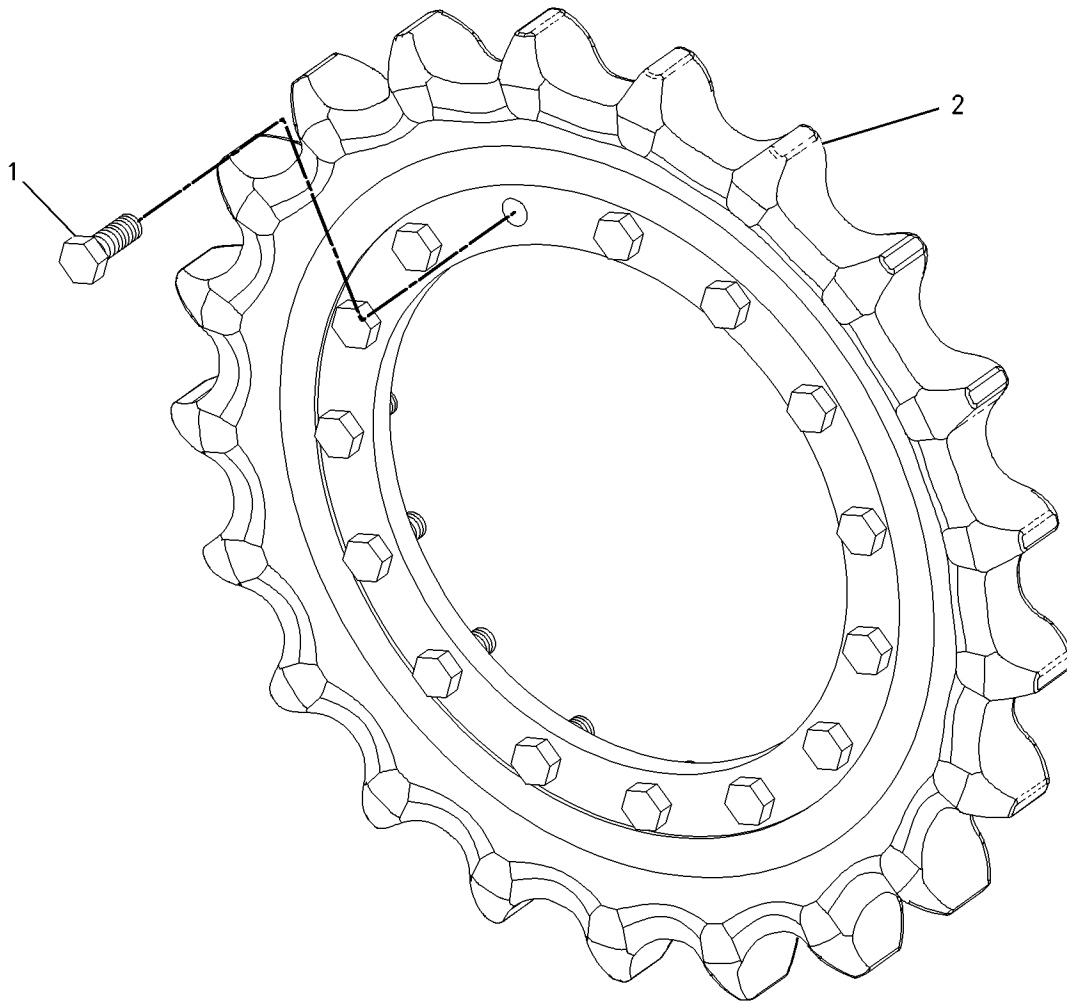
S/N: BPH1-UP

PART OF 200-6045 FINAL DRIVE GP

SMCS-4155

i01468979

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	7X-2562	16	BOLT (M20X2.5X45MM)						
	2	1	8E-9805	1	SPROCKET - TRACK						
M-METRIC PART											



GRAPHIC #1

g00671116

FRAME AND BODY

184-8371 BOX & MTG GP-STORAGE

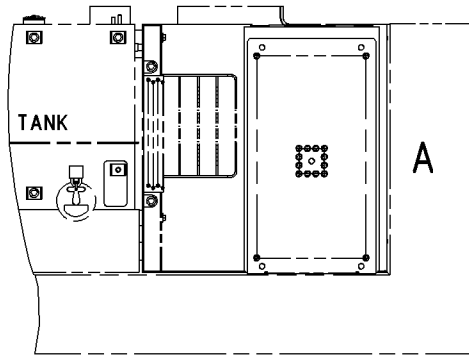
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

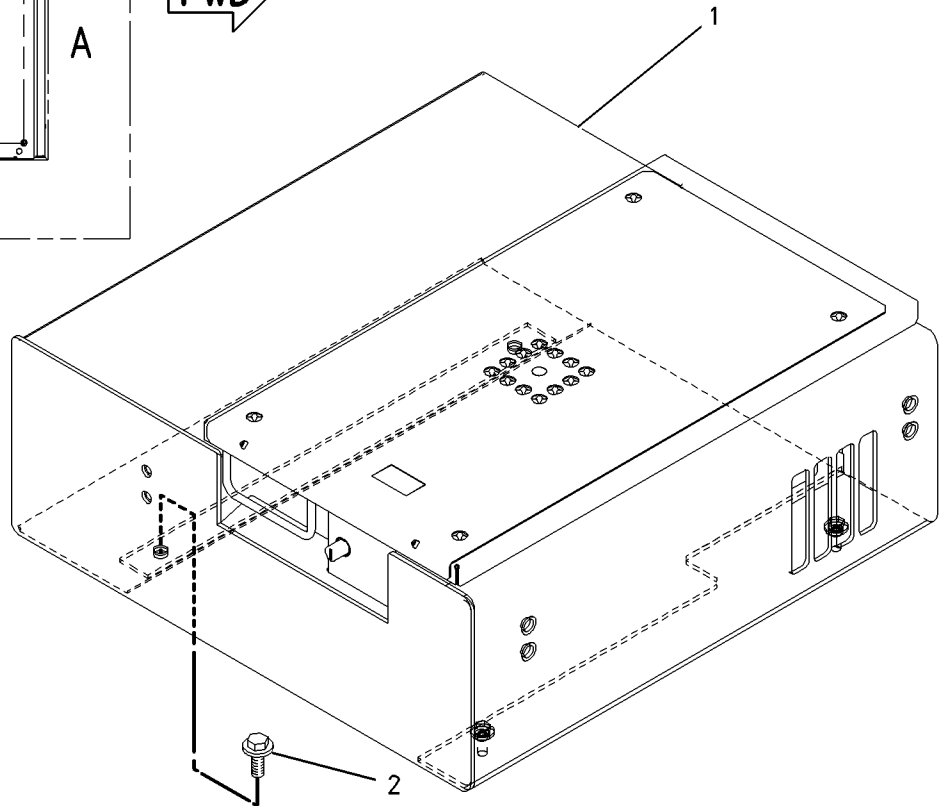
SMCS-7268

i01507862

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	184-8376	1	BOX GP-STORAGE						628
	2	1	135-8577	4	BOLT AS-SPECIAL						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8T-4956	1	BOLT (M12X1.75X35MM)						
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											



TOP VIEW



VIEW OF AREA A

GRAPHIC #1

g00795032

FRAME AND BODY

177-5462 COUNTERWEIGHT GP

S/N: BPH1-UP; CAM1-UP

PART OF 192-2316, 192-2317 CHASSIS AR

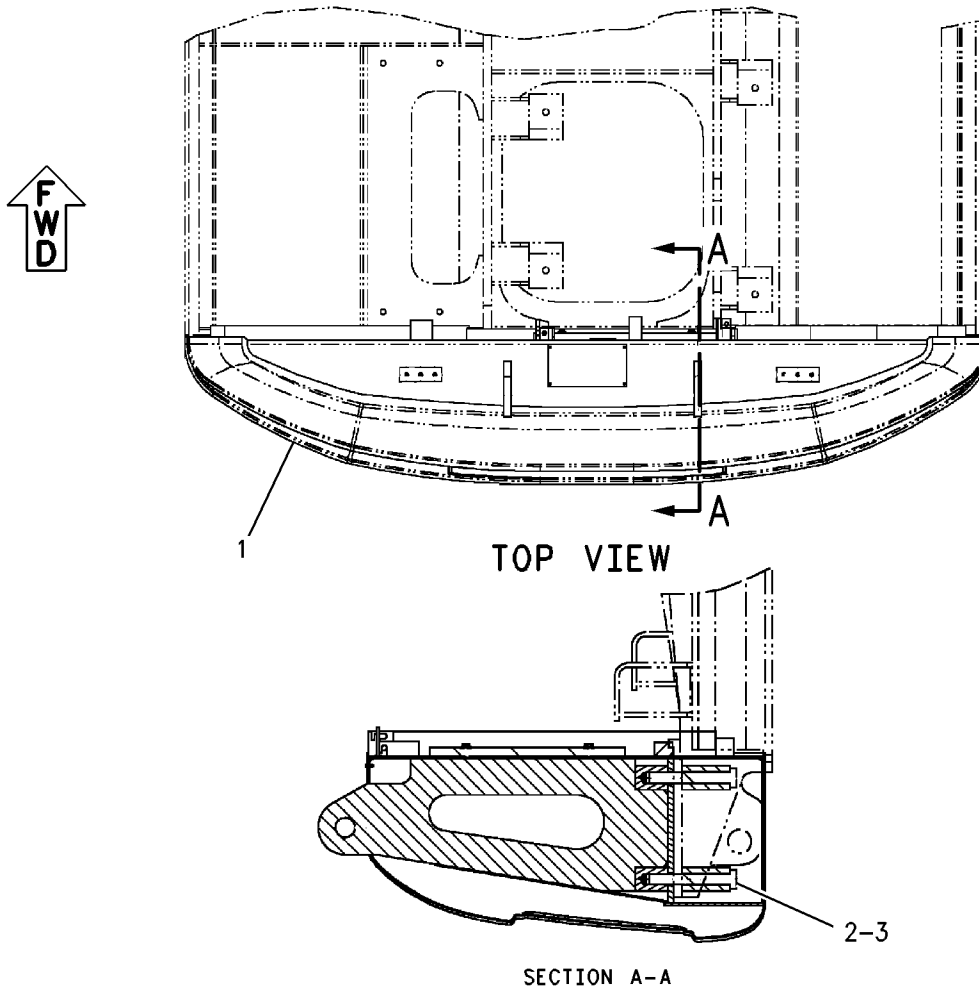
SMCS-7056

i01547084

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	177-5464	1	COUNTERWEIGHT GP						209
	2	1	177-5905	4	SPACER (32ID 650D 130LLGTH)						
M	3	1	3E-9850	4	BOLT (M30X3.5X220MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00702483

FRAME AND BODY

177-5464 COUNTERWEIGHT GP

S/N: BPH1-UP; CAM1-UP

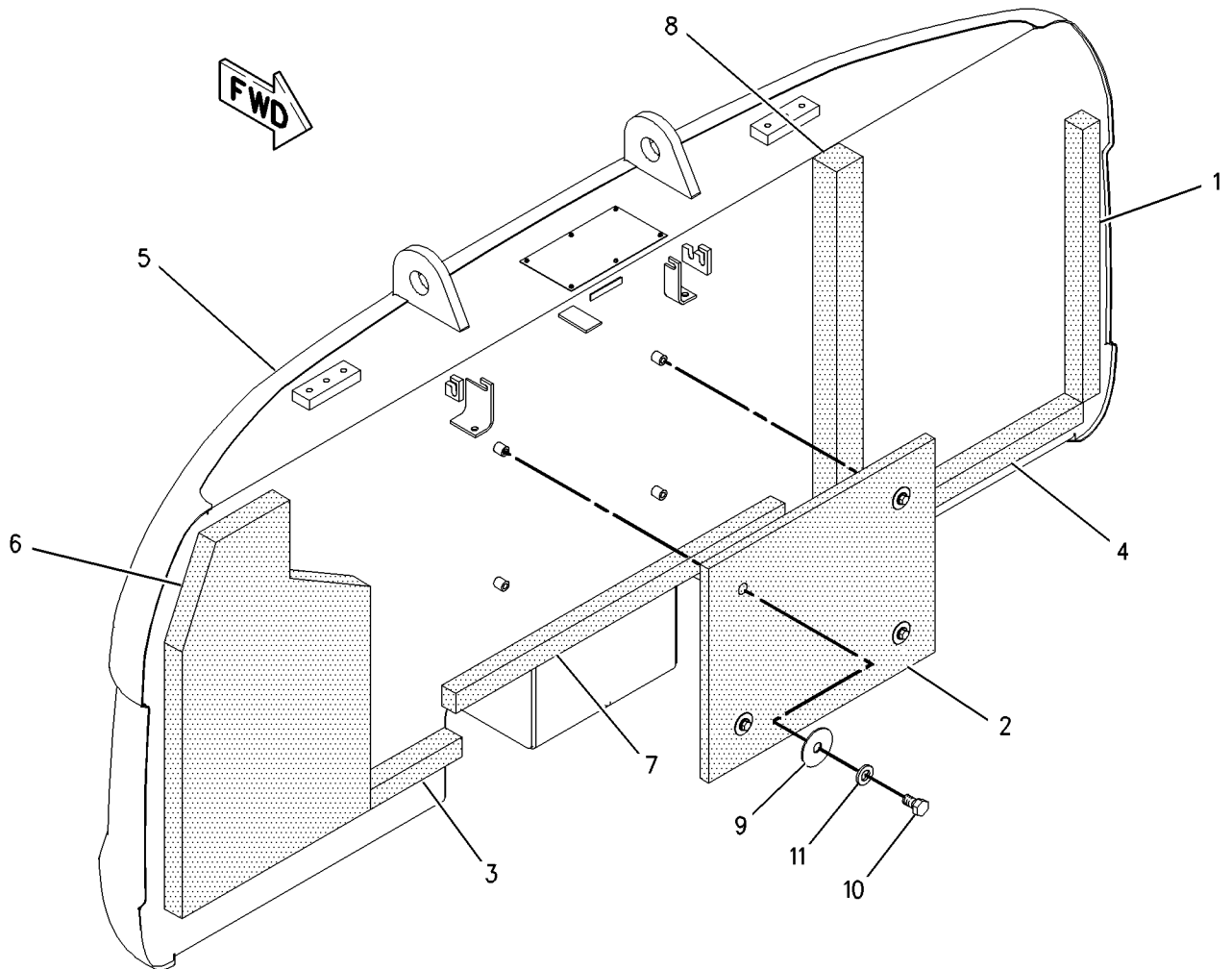
PART OF 177-5462 COUNTERWEIGHT GP

SMCS-7056

i01354630

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7I-0717	1	LINER						
	2	1	121-4928	1	INSULATION						
	3	1	127-7771	1	LINER						
	4	1	129-3399	1	LINER						
	5	1	177-6118	1	COUNTERWEIGHT AS						
		1	7Y-2287	1	SUPPORT						
	6	1	177-6303	1	LINER						
	7	1	177-6304	1	LINER						
	8	1	177-6305	1	LINER						
	9	1	7Y-2292	4	WASHER (2MM THK)						
M	10	1	8T-4179	4	BOLT (M12X1.75X20MM)						
	11	1	8T-4223	4	WASHER-HARD (3MM THK)						

M-METRIC PART



GRAPHIC #1

g00707785

FRAME AND BODY

190-6989 COUNTERWEIGHT GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2318 CHASSIS AR

ALSO AN ATTACHMENT

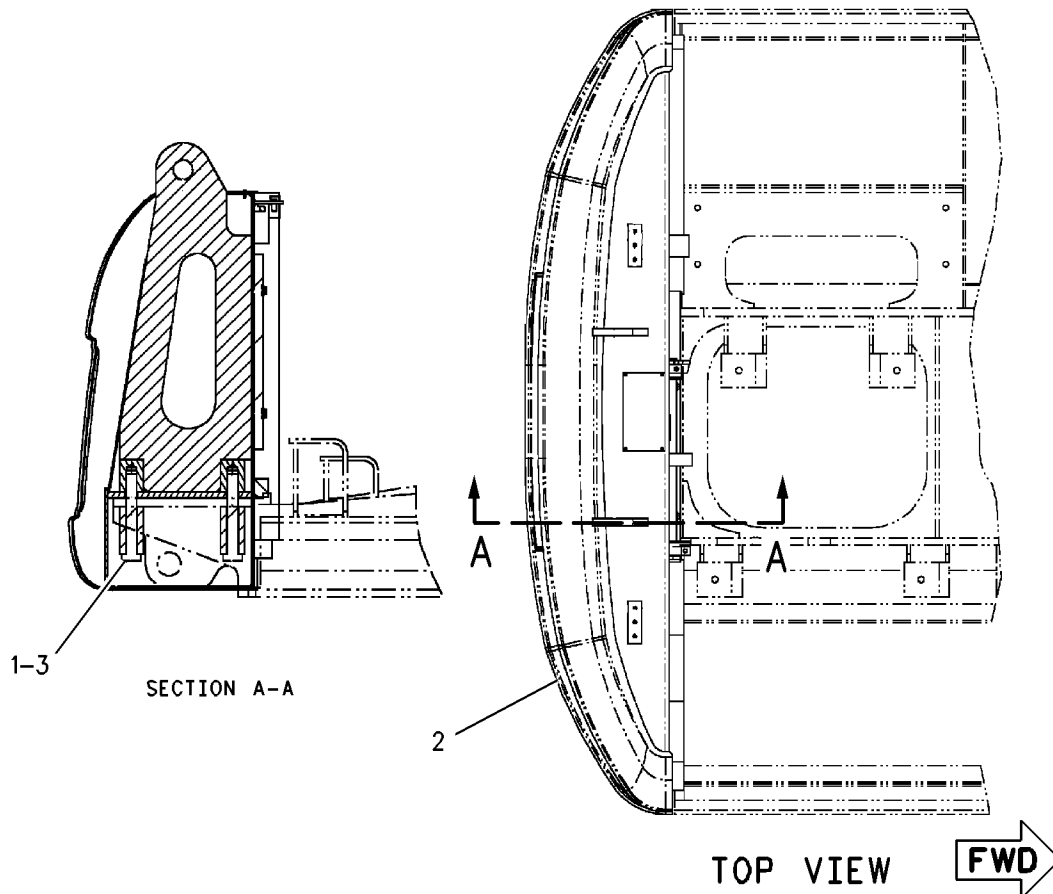
SMCS-7056

i01518280

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-5905	4	SPACER (32ID 65OD 130LLGTH)						
Y	2	1	193-9458	1	COUNTERWEIGHT GP						211
M	3	1	3E-9850	4	BOLT (M30X3.5X220MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00793406

FRAME AND BODY

193-9458 COUNTERWEIGHT GP

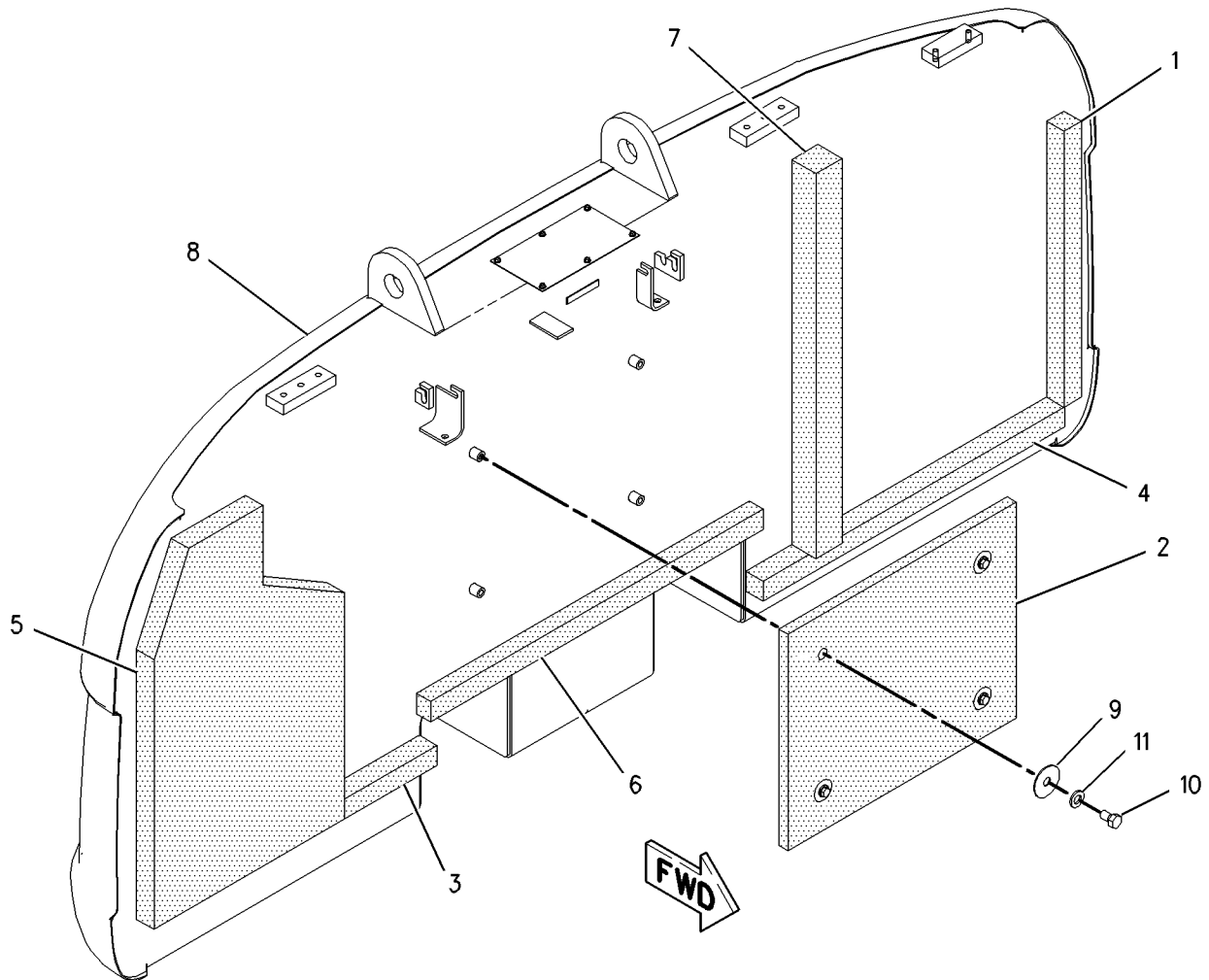
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 190-6989 COUNTERWEIGHT GP
ALSO AN ATTACHMENT

SMCS-7056

i01521146

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7I-0717	1	LINER						
	2	1	121-4928	1	INSULATION						
	3	1	127-7771	1	LINER						
	4	1	129-3399	1	LINER						
	5	1	177-6303	1	LINER						
	6	1	177-6304	1	LINER						
	7	1	177-6305	1	LINER						
	8	1	193-9459	1	COUNTERWEIGHT AS						
	9	1	7Y-2292	4	WASHER (2MM THK)						
M	10	1	8T-4179	4	BOLT (M12X1.75X20MM)						
	11	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00796056

FRAME AND BODY

190-7213 COVER GP-BATTERY

S/N: BPH1-UP; CAM1-UP; CBY1-UP

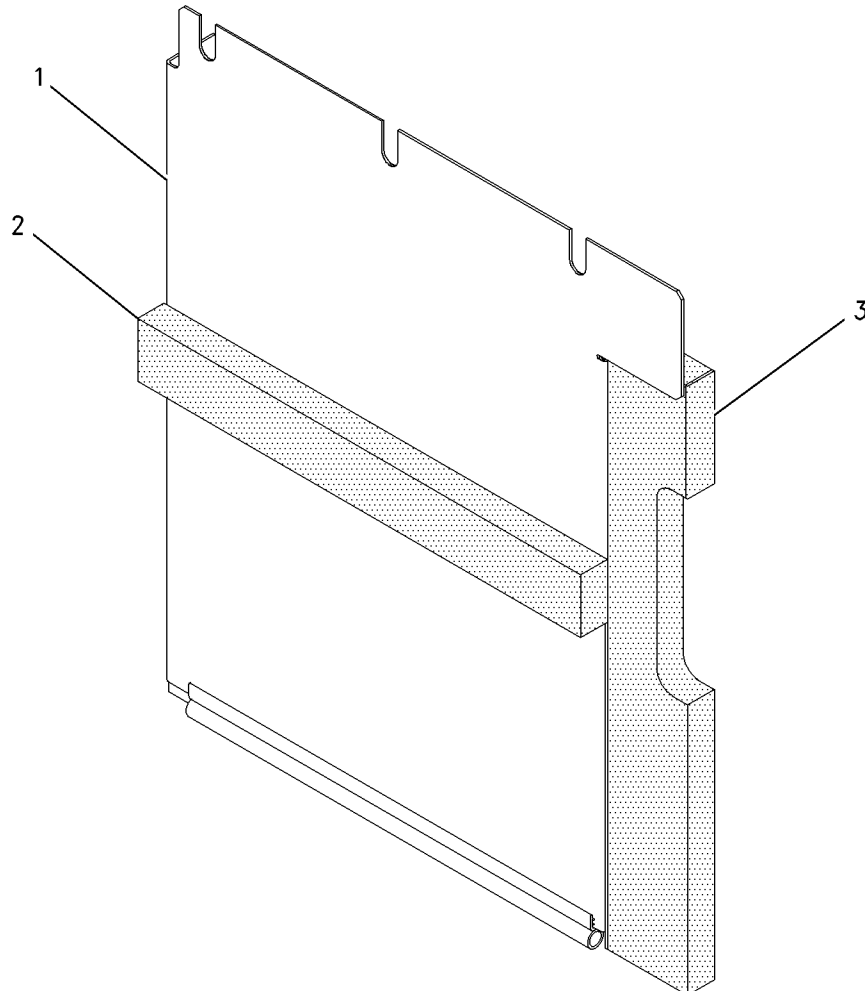
COLD WEATHER STARTING

PART OF 186-1311 STARTING AR-COLD WEATHER
AN ATTACHMENT

SMCS-1401

i01460720

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-6275	1	SHEET AS						
	2	1	177-6279	1	LINER						
	3	1	177-5936	1	LINER						



GRAPHIC #1

g00763991

FRAME AND BODY

184-8386 COVER GP-STORAGE BOX

S/N: BPH1-UP; CAM1-UP; CBY1-UP

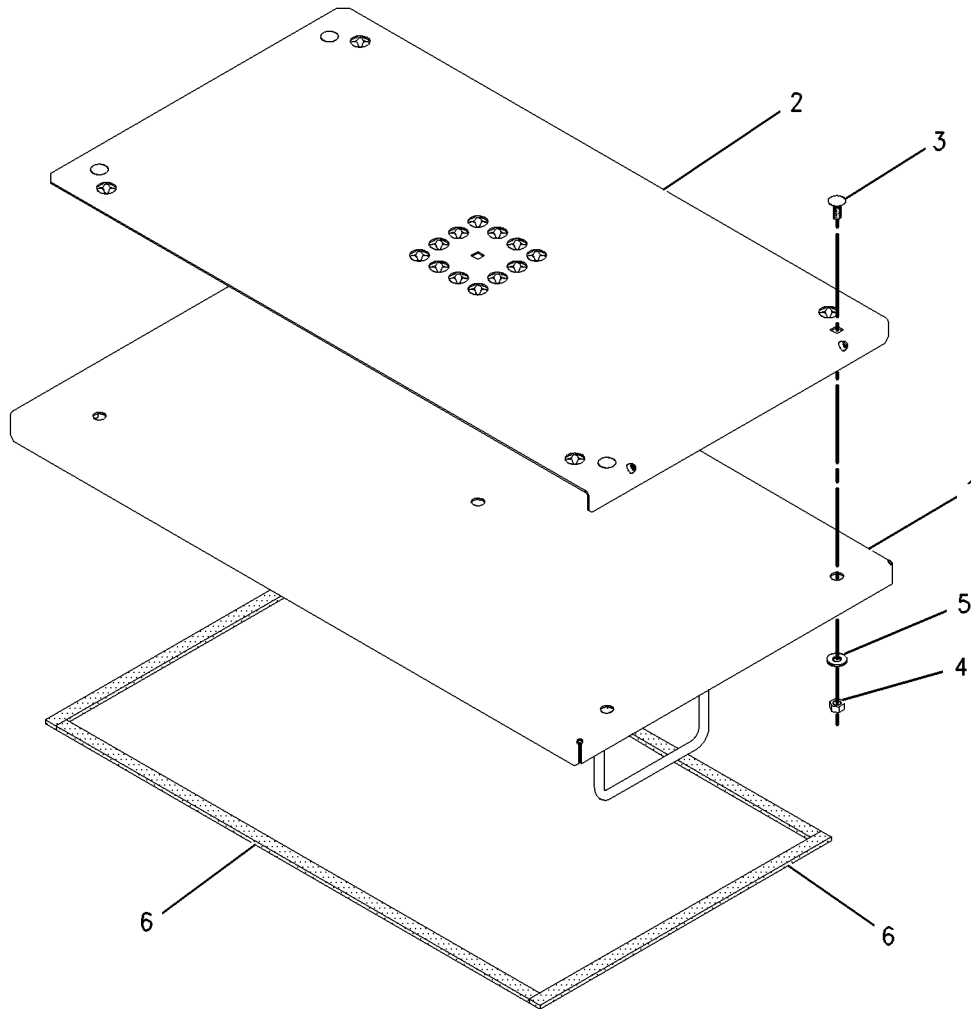
PART OF 184-8376 BOX GP-STORAGE

SMCS-7268

i01518259

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	184-8387	1	COVER AS						
		1	3D-9143	2	HINGE-BUTT						
M		1	6V-9632	2	NUT-WELD (M6X1 THD)						
M		1	8T-5413	4	STUD-WELD (M10X1.5X25MM OAL)						
	2	1	184-8389	1	SHEET						
M	3	1	137-2255	5	BOLT (M8X1.25X8MM)						
M	4	1	5C-7261	5	NUT (M8X1.25 THD)						
	5	1	5P-4116	5	WASHER-HARD (8.8X20.5X2MM THK)						
D	6	1	3E-6573		SEAL (2.2M)						

D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00730919

FRAME AND BODY

184-8372 FENDER & COVER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

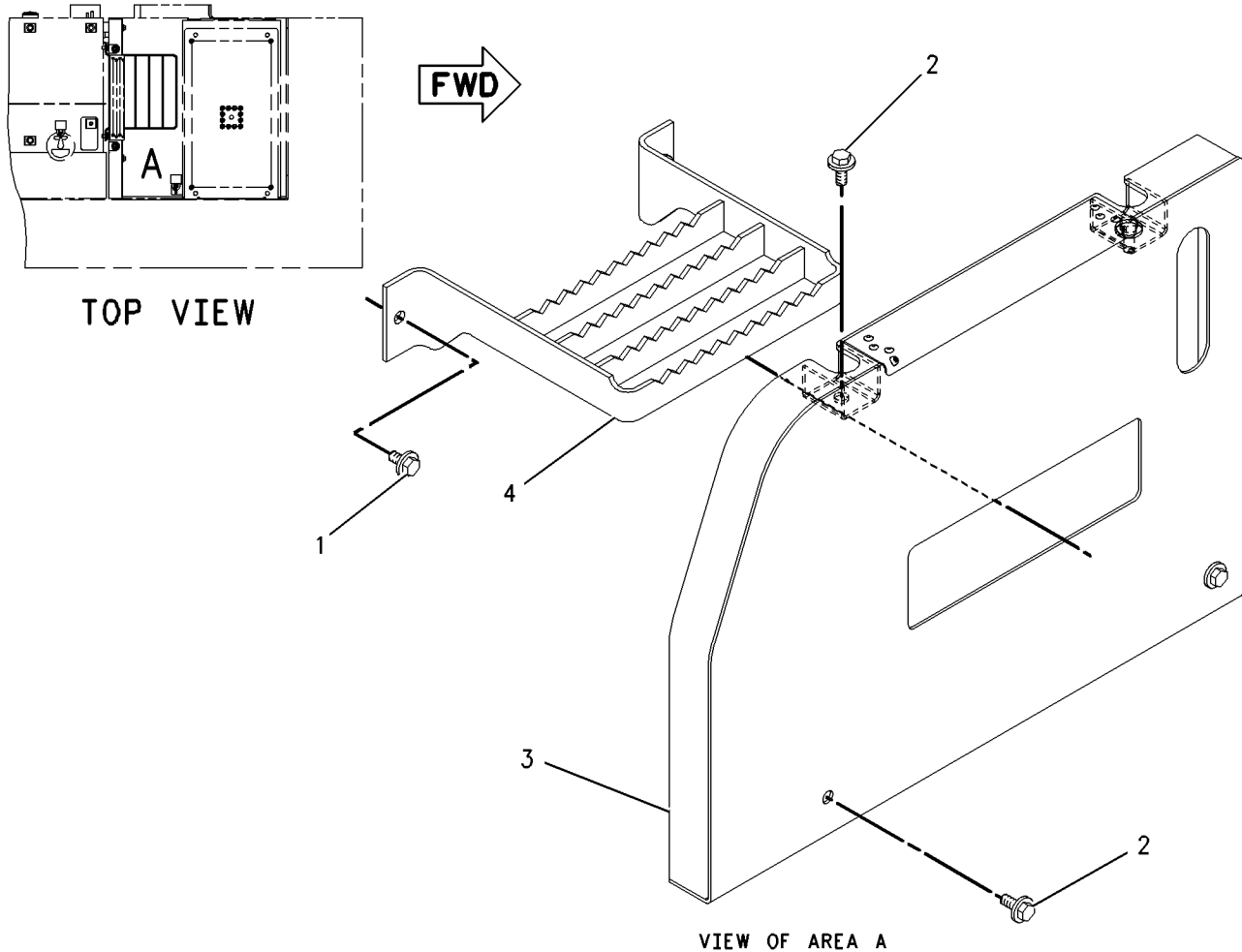
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7252

i01507074

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	135-8573	2	BOLT AS-SPECIAL (M12)						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8T-4192	1	BOLT (M12X1.75X25MM)						
	2	1	135-8575	4	BOLT AS-SPECIAL (M12)						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8T-4139	1	BOLT (M12X1.75X30MM)						
	3	1	184-8395	1	COVER AS						
	4	1	184-8396	1	STEP AS						

M-METRIC PART



GRAPHIC #1

g00796360

MEMORANDA

FRAME AND BODY

192-2319 FRAME GP-UPPER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

UPPER

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-6506, 7051

i01514690

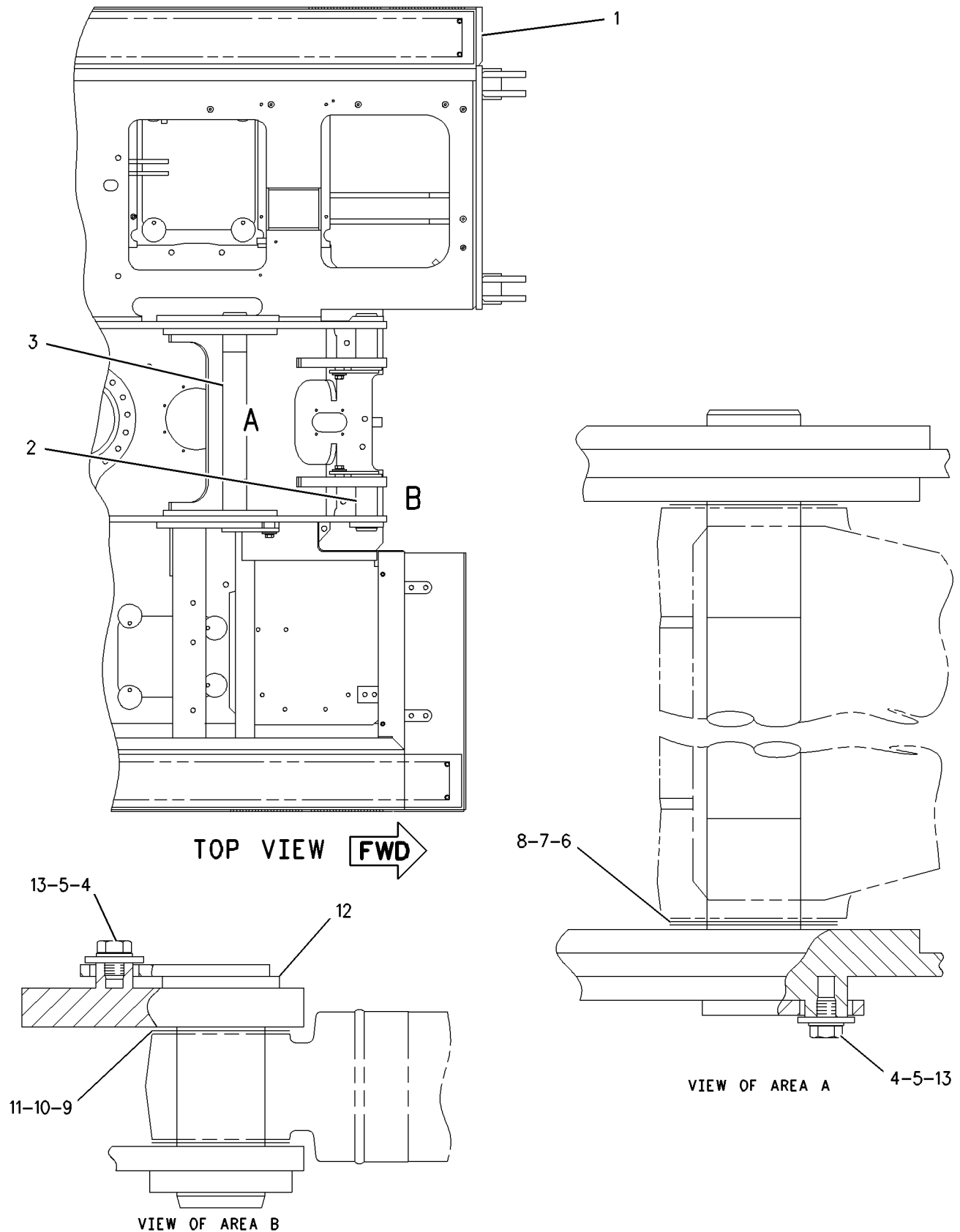
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-2320	1	FRAME AS-UPPER						
	2	1	102-3167	2	PIN AS						
	3	1	180-7541	1	PIN AS						
M	4	1	8T-4780	3	BOLT (M20X2.5X30MM)						
	5	1	093-0349	3	WASHER (6.0MM THK)						
B	6	1	093-0090	2	SHIM (1.0MM THK)						
B	7	1	133-2427	1	SHIM (0.5MM THK)						
B	8	1	093-0122	1	SHIM (2.0MM THK)						
B	9	1	093-0084	4	SHIM (1.0MM THK)						
B	10	1	113-2127	2	SHIM (0.5MM THK)						
B	11	1	093-0116	2	SHIM (2.0MM THK)						
	12	1	093-0366	2	SPACER (12MM THK)						
	13	1	8T-4123	3	WASHER-PLATED (22X35X3.5MM THK)						

B-USE AS REQUIRED
M-METRIC PART

FRAME AND BODY

192-2319 FRAME GP -UPPER (contd.)

i01514690



GRAPHIC #1

g00797717

FRAME AND BODY

171-9472 GEAR & BEARING GP-SWING

S/N: BPH1-UP

PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-7063

i01548656

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-8133	36	BOLT (M24X3.0X80MM)						
	2	1	7Y-0336	36	SPACER						
B	3	1	1U-8846		SEALANT-GASKET						
	5	1	093-0020	34	SPACER						
Y	6	1	199-4471	1	GEAR & BEARING GP-SWING						220
M	7	1	112-1532	14	BOLT-HEX HEAD (M24X3X140MM)						
	8	1	095-1302	1	DOWEL						
	9	1	7Y-1649	1	BOOT						
	10	1	093-0543	1	RETAINER						
	11	1	8T-4121	14	WASHER-HARD (11X21X2.5MM THK)						
M	12	1	8T-4136	12	BOLT (M10X1.5X25MM)						
	13	1	7Y-1650	1	CLAMP-HOSE						
	14	1	7Y-1648	1	STRIP						
	15	1	7Y-1647	1	GASKET						
	16	1	148-4704	1	GASKET						
	17	1	148-4703	1	COVER						
M	18	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	19	1	4N-9170	2	CLIP						
M	20	1	8T-4199	2	BOLT (M8X1.25X12MM)						
M	21	1	8T-0669	20	BOLT (M24X3X130MM)						
	22	1	5K-9243	2	ELBOW-FLARED						
	23	1	3B-8489	1	FITTING-GREASE						
	24	1	199-4518	1	TUBE AS						
	25	1	6I-6441	15	CORK						

B-USE AS REQUIRED

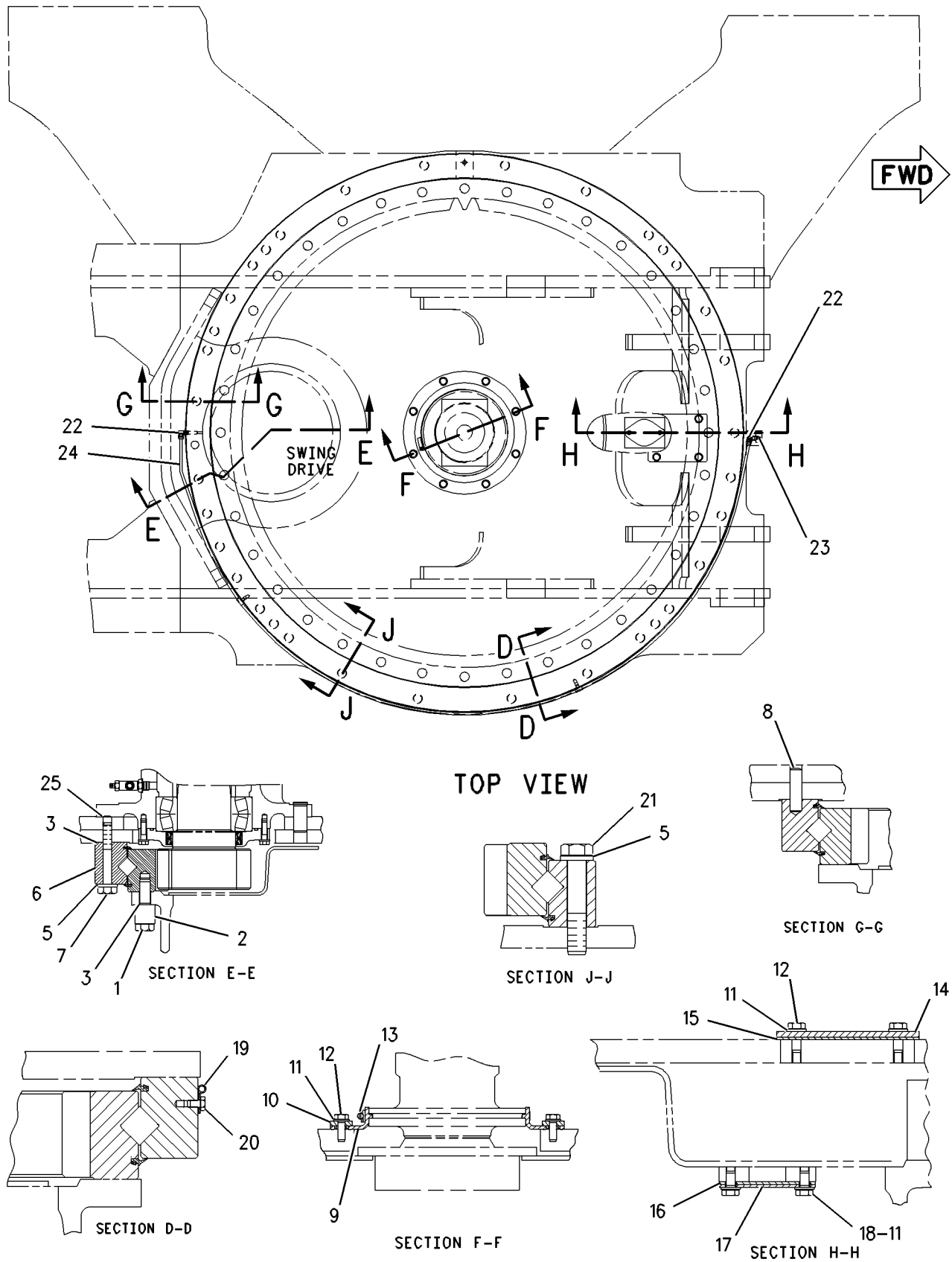
M-METRIC PART

Y-SEPARATE ILLUSTRATION

FRAME AND BODY

171-9472 GEAR & BEARING GP - SWING (contd.)

i01548656



GRAPHIC #1

g00800580

FRAME AND BODY

199-4471 GEAR & BEARING GP-SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9472, 199-4515 GEAR & BEARING GP-SWING

SMCS-7063

i01548570

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	199-4472	1	GEAR & BEARING GP						
	3B-8489	1	FITTING-GREASE						
	148-4685		SEAL (839CM)						
			-OR-						
	199-4474	1	GEAR & BEARING GP						
	3B-8489	1	FITTING-GREASE						
	110-7183		SEAL (838CM)						

MEMORANDA

FRAME AND BODY

199-4515 GEAR & BEARING GP-SWING

S/N: CAM1-UP; CBY1-UP

BASIC

PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-7063

i01548666

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-0667	36	BOLT (M24X3X100MM)						
	2	1	7Y-0336	36	SPACER						
B	3	1	1U-8846		SEALANT-GASKET						
	5	1	093-0020	34	SPACER						
Y	6	1	199-4471	1	GEAR & BEARING GP-SWING						220
M	7	1	112-1532	14	BOLT-HEX HEAD (M24X3X140MM)						
	8	1	095-1302	1	DOWEL						
	9	1	7Y-1649	1	BOOT						
	10	1	093-0543	1	RETAINER						
	11	1	8T-4121	14	WASHER-HARD (11X21X2.5MM THK)						
M	12	1	8T-4136	12	BOLT (M10X1.5X25MM)						
	13	1	7Y-1650	1	CLAMP-HOSE						
	14	1	7Y-1648	1	STRIP						
	15	1	7Y-1647	1	GASKET						
	16	1	148-4704	1	GASKET						
	17	1	148-4703	1	COVER						
M	18	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	19	1	4N-9170	2	CLIP						
M	20	1	8T-4199	2	BOLT (M8X1.25X12MM)						
M	21	1	8T-0669	20	BOLT (M24X3X130MM)						
	22	1	5K-9243	2	ELBOW-FLARED						
	23	1	3B-8489	1	FITTING-GREASE						
	24	1	199-4518	1	TUBE AS						
	25	1	6I-6441	15	CORK						

B-USE AS REQUIRED

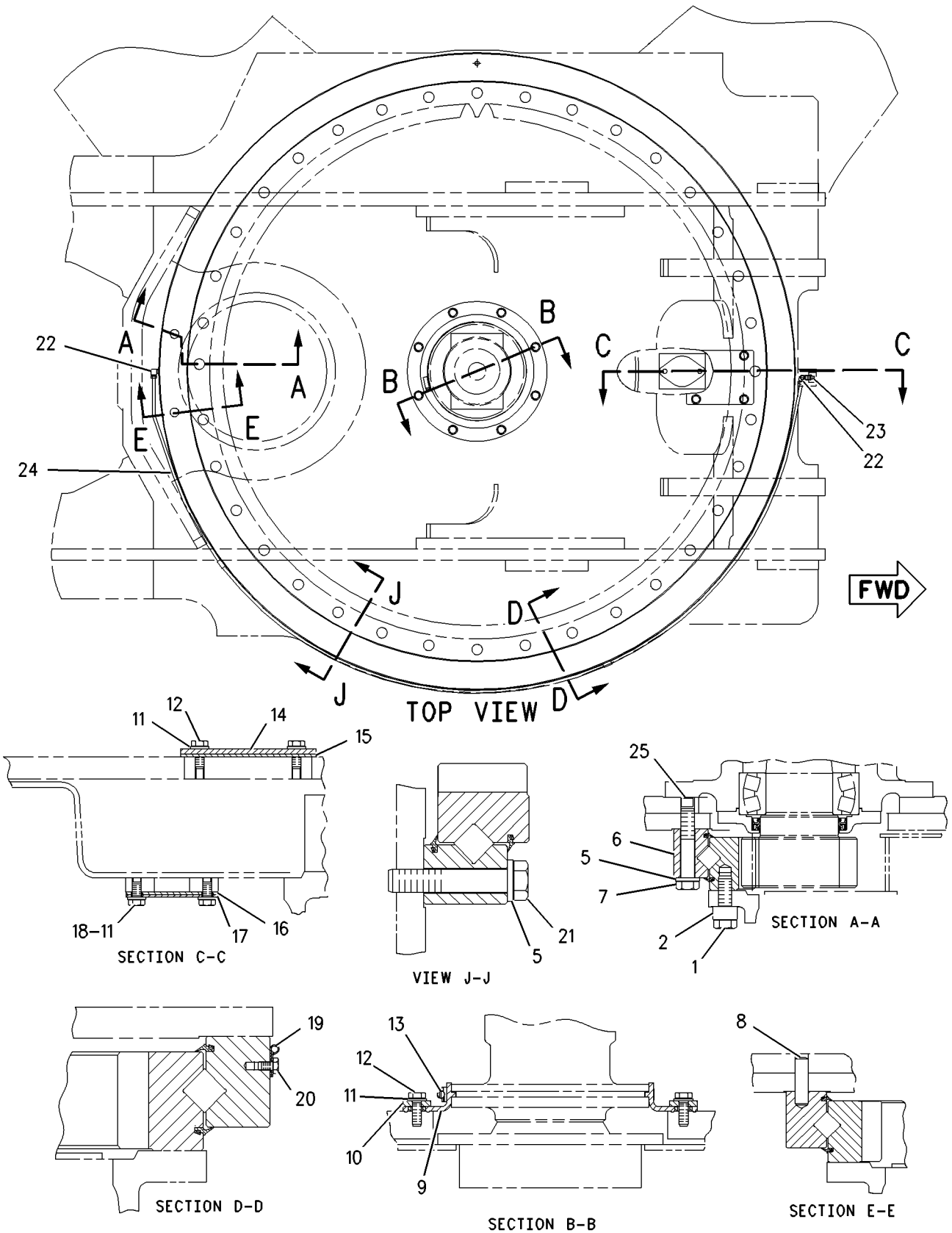
M-METRIC PART

Y-SEPARATE ILLUSTRATION

FRAME AND BODY

199-4515 GEAR & BEARING GP - SWING (contd.)

i01548666



GRAPHIC #1

g00795346

FRAME AND BODY

192-2723 GUARD GP - BOTTOM

S/N: BPH1-UP; CAM1-UP; CBY1-UP

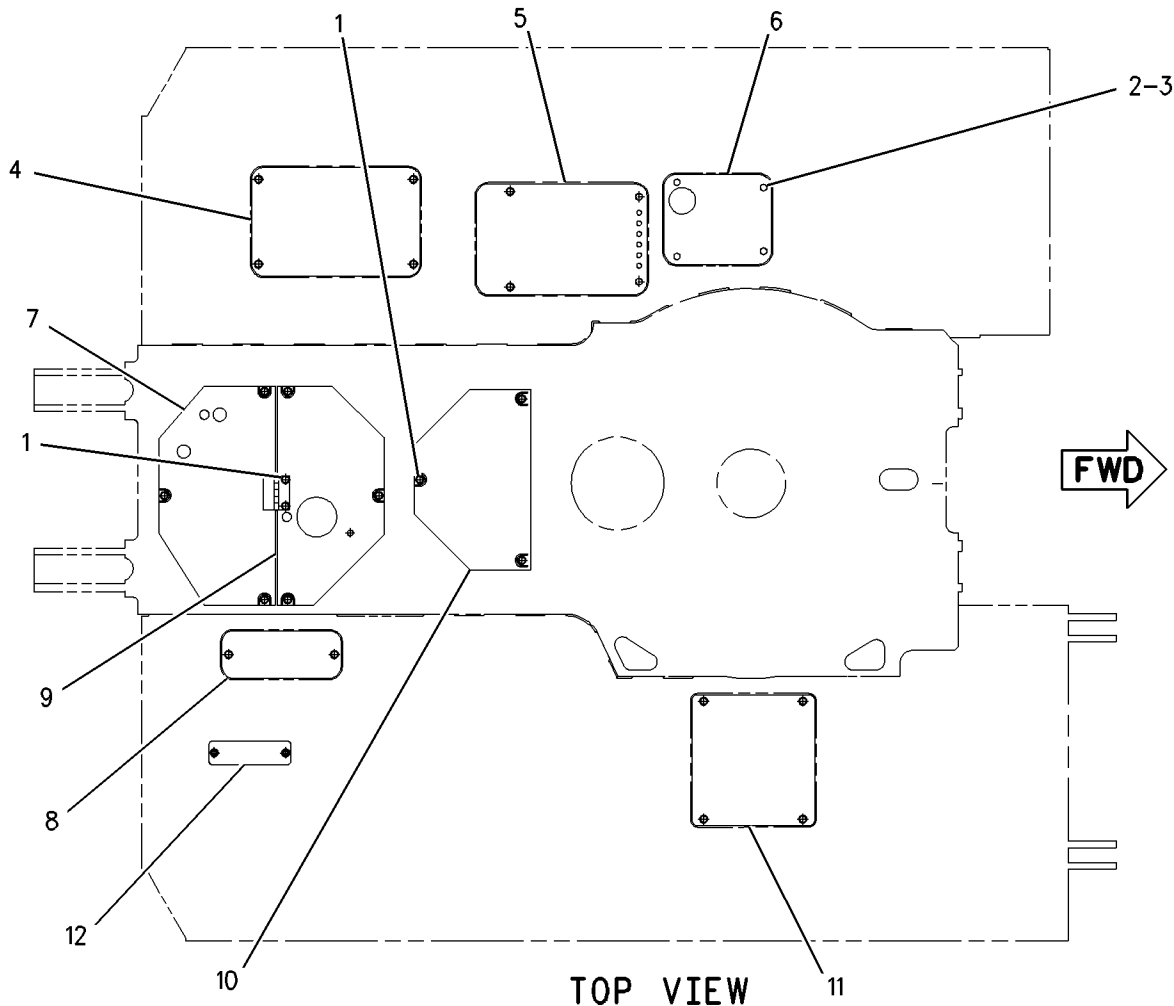
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7153

i01507188

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	135-8576	13	BOLT AS (M12)						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8C-8992	1	BOLT-LOCKING (M12X1.75X30MM)						
M	2	1	100-3866	18	BOLT-SELF LOCKING (M16X2X40MM)						
	3	1	9X-8257	18	WASHER (17.5X30X3.5MM THK)						
	4	1	196-8770	1	PLATE						
	5	1	184-5670	1	PLATE						
	6	1	196-8769	1	PLATE						
	7	1	177-6012	1	PLATE AS						
		1	099-7857	1	HINGE						
	8	1	184-5671	1	PLATE						
	9	1	177-6010	1	PLATE AS						
M		1	8T-3597	2	NUT-WELD (M12X1.75 THD)						
	10	1	177-6008	1	PLATE AS						
	11	1	196-8771	1	PLATE						
	12	1	204-0163	1	PLATE						

M-METRIC PART



GRAPHIC #1

g00797696

FRAME AND BODY

192-2349 GUARD GP-FRONT

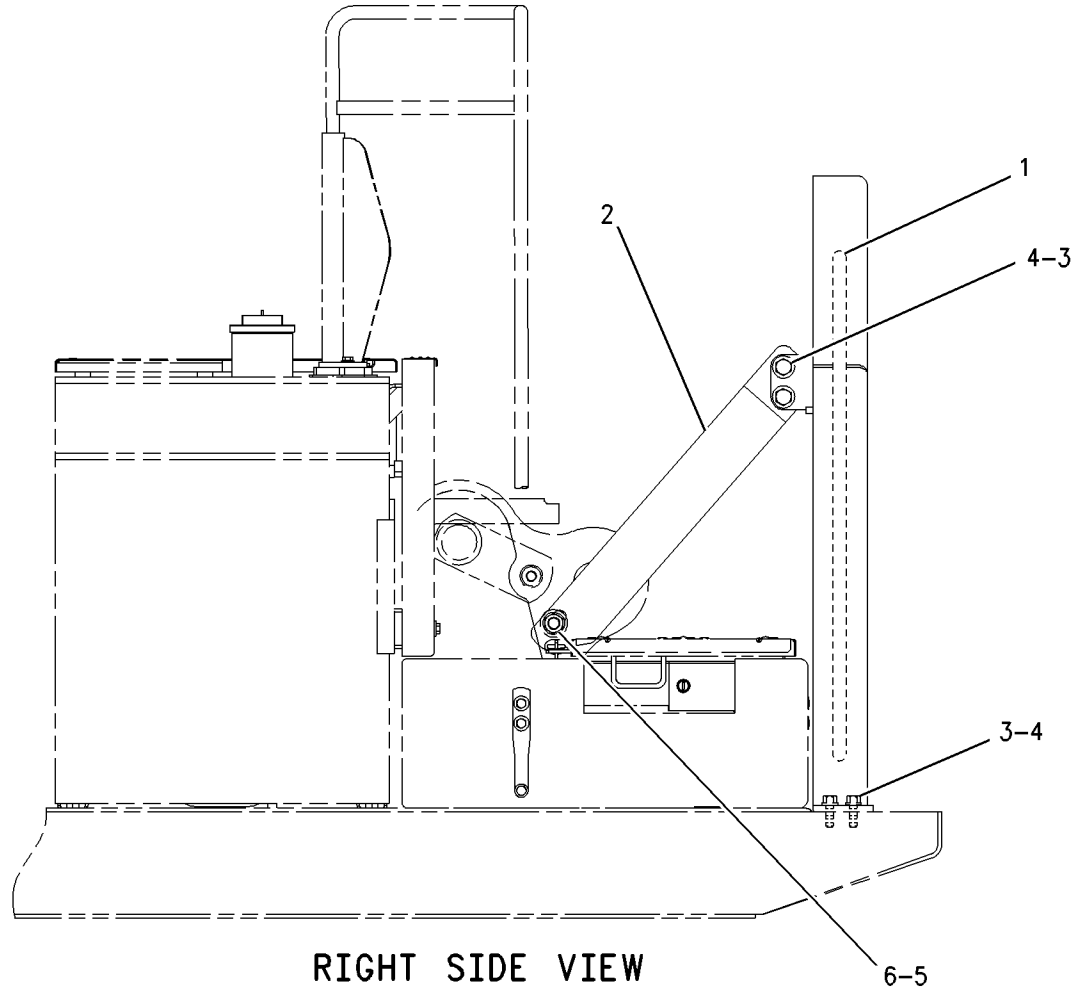
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2348 GUARD GP-LIGHT

SMCS-7167, 7182

i01508282

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	184-9525	1	GUARD AS-FRONT						
		1	7T-1099	4	LINK						
	2	1	192-2350	1	PLATE						
M	3	1	7X-2563	6	BOLT (M20X2.5X60MM)						
	4	1	8T-5439	6	WASHER (21.5X45X6MM THK)						
M	5	1	7X-2574	1	BOLT (M24X3.0X45MM)						
	6	1	8T-4167	1	WASHER-HARD (26X44X4MM THK)						
M-METRIC PART											



GRAPHIC #1

g00797441

FRAME AND BODY

192-2348 GUARD GP- LIGHT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

RIGHT FRONT

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1429

i01507670

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	192-2349	1	GUARD GP-FRONT						225
Y	186-4530	1	LIGHTING GP						145
Y-SEPARATE ILLUSTRATION									

FRAME AND BODY

100-3721 GUARD GP-SWIVEL

S/N: CAM1-UP; CBY1-UP

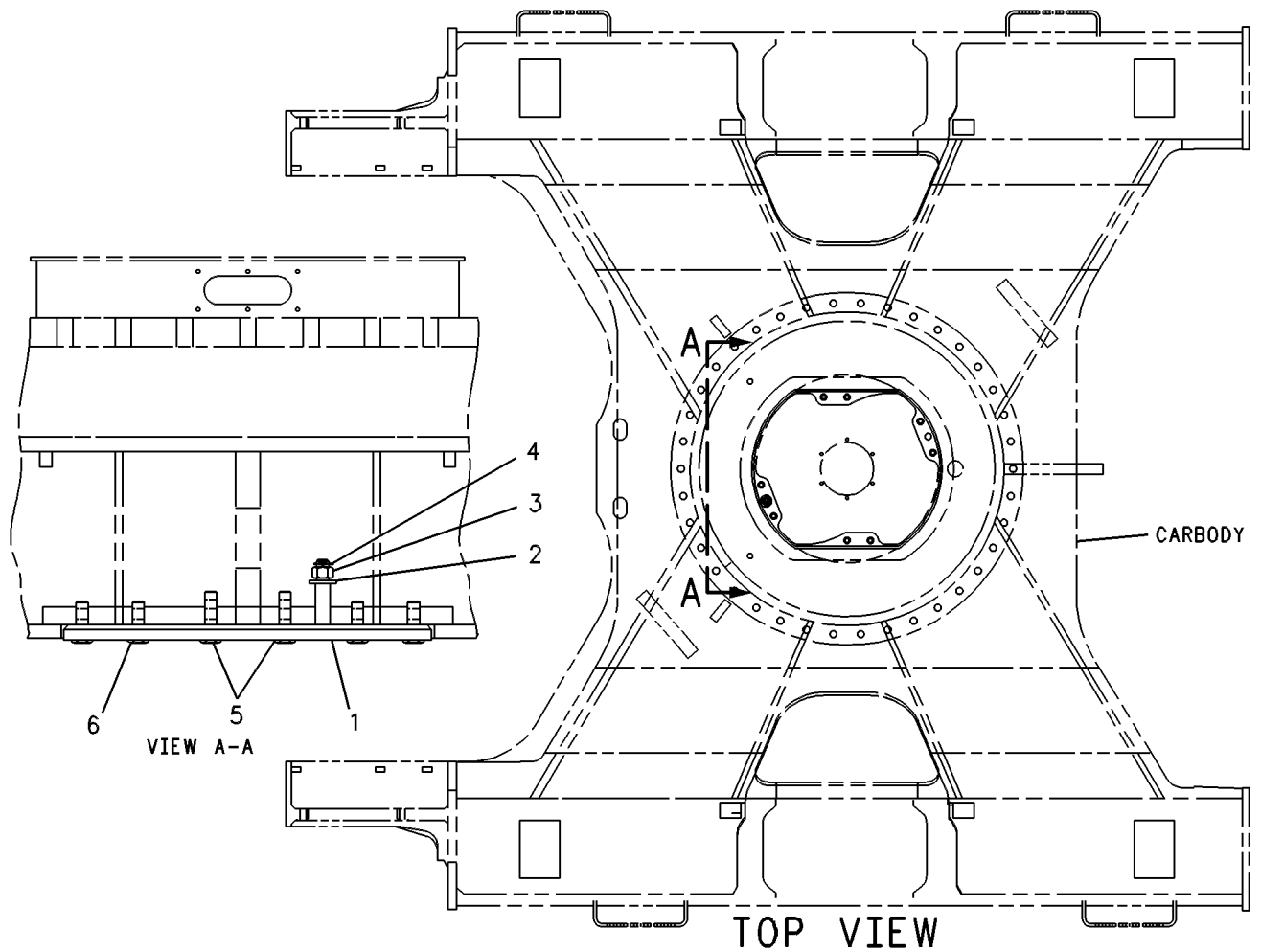
PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-7183

i01535119

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-9973	1	COVER AS						
	2	1	8T-5439	1	WASHER (21.5X45X6MM THK)						
M	3	1	8T-4131	1	NUT (M20X2.5 THD)						
	4	1	3B-4632	1	COTTER						
M	5	1	8T-4141	2	BOLT (M20X2.5X70MM)						
M	6	1	8T-6430	6	BOLT (M20X2.5X50MM)						

M-METRIC PART



GRAPHIC #1

g00263174

FRAME AND BODY

134-8853 GUARD GP-SWIVEL

S/N: BPH1-UP

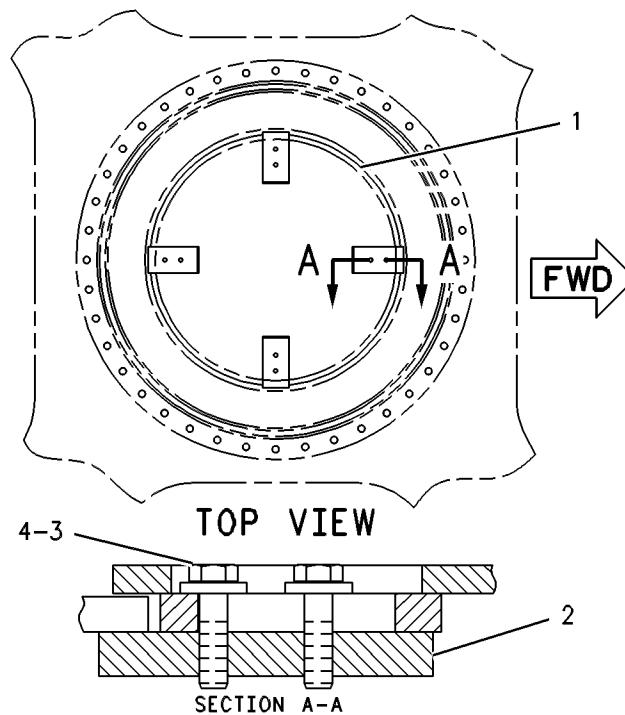
PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-7183

i00617941

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	134-8854	1	PLATE AS						
	2	1	130-4276	4	PLATE						
M	3	1	8T-4140	8	BOLT (M16X2.0X60MM)						
	4	1	3E-9411	8	WASHER-HARD (6MM THK)						

M-METRIC PART



GRAPHIC #1

g00265991

FRAME AND BODY

197-2028 HANDHOLD GP

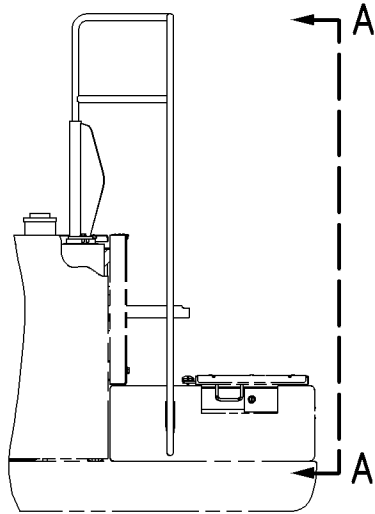
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

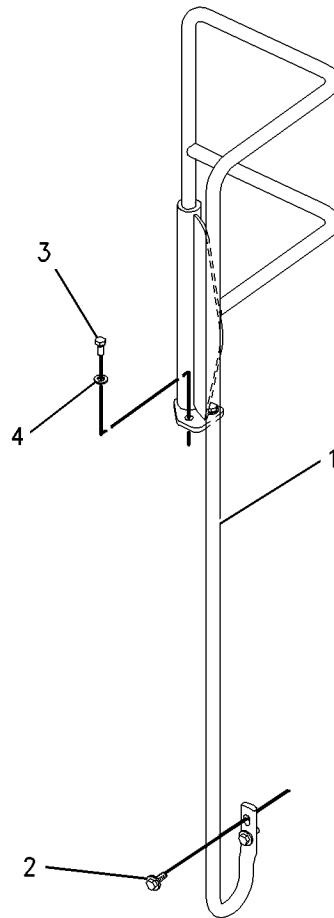
SMCS-7256

i01507052

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	184-8840	1	HANDHOLD AS	
	2	1	135-8577	2	BOLT AS-SPECIAL	
					(EACH INCLUDES)	
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)	
M		1	8T-4956	1	BOLT (M12X1.75X35MM)	
M	3	1	8T-4192	2	BOLT (M12X1.75X25MM)	
	4	1	8T-4223	2	WASHER-HARD (13.5X25.5X3MM THK)	
M-METRIC PART						



RIGHT SIDE VIEW



VIEW A-A

GRAPHIC #1

g00798683

FRAME AND BODY

192-2322 HOOD & GUARD GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7251

i01548801

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	114-6285	2	BAR						
	131-3957	2	BAR						
	133-1371	3	BAR						
M	8T-4136	4	BOLT (M10X1.5X25MM)						
M	8T-4138	16	BOLT (M6X1X20MM)						
M	8T-4200	8	BOLT (M8X1.25X16MM)						
M	8T-4910	6	BOLT (M12X1.75X60MM)						
	135-8573	72	BOLT AS-SPECIAL (M12)						
			(EACH INCLUDES)						
	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M	8T-4192	1	BOLT (M12X1.75X25MM)						
	135-8575	54	BOLT AS-SPECIAL (M12)						
			(EACH INCLUDES)						
	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M	8T-4139	1	BOLT (M12X1.75X30MM)						
	135-8577	12	BOLT AS-SPECIAL						
			(EACH INCLUDES)						
	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M	8T-4956	1	BOLT (M12X1.75X35MM)						
	135-8578	12	BOLT AS-SPECIAL						
			(EACH INCLUDES)						
	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M	8T-4183	1	BOLT (M12X1.75X40MM)						
	131-3954	3	BRACKET AS						
	170-3015	1	BUMPER						
	204-6577	1	BUMPER						
	4E-1384	6	BUMPER-CONICAL						
	3B-4607	1	COTTER						
	177-6268	1	COVER AS						
	177-6269	1	LINER						
	190-6834	1	COVER AS						
	190-6835	1	LINER						
	096-4129	2	CUSHION						
	200-3022	1	DOOR AS						
	165-2976	2	HINGE						
	200-3028	1	DOOR AS						
	6V-2370	6	RIVET-POP						
	190-7020	2	HINGE						
	200-2714	1	DOOR GP-ACCESS						
	184-8453	1	LINER						
	184-8454	1	LINER						
	184-8454	1	LINER						
	200-3024	1	DOOR GP-ACCESS						
	204-6578	1	LINER						
	1R-9958	1	FASTENER						
	4I-0117	1	FASTENER						
	204-6572	1	HANDHOLD AS						
	204-6575	1	HANDHOLD AS						
Y	184-8281	1	HOOD GP-ENGINE						234
	4I-0118	2	HOOK						
	8Y-4000	2	LATCH AS (T-BAR/COMPARTMENT)						
			(EACH INCLUDES)						
	6H-3956	1	PIN						
	7X-0766	1	SPRING-LATCH						
	8Y-3966	1	WASHER (14.7X35X1.57MM THK)						
	8Y-3998	1	HANDLE-LATCH						

FRAME AND BODY

192-2322 HOOD & GUARD GP (contd.)

i01548801

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	8Y-3999	1	BRACKET-MOUNTING						
	8Y-8306	1	SHAFT-LATCH						
	9M-3835	1	LATCH-RUBBER						
M	6V-7744	4	LOCKNUT (M10X1.5 THD)						
	8T-9496	2	LOCKNUT						
M	5C-7261	6	NUT (M8X1.25 THD)						
	5B-2183	2	NUT-JAM (9/16-18 THD)						
Y	5P-8502	2	PADLOCK GP						691
	8T-1578	2	PAWL						
	2M-5795	1	PIN-CLEVIS						
	7Y-2916	1	PIN-CLEVIS						
	7J-5925	1	PIN-COTTER						
	3B-4618	1	PIN-COTTER						
	122-4120	3	ROD						
M	8T-6693	4	SCREW-MACHINE (M5X0.8X16MM)						
	5P-8309	1	SEAL						
	177-6201	1	SHEET AS						
M	8T-3597	3	NUT-WELD (M12X1.75 THD)						
	177-6206	1	SHEET AS						
M	8T-3597	6	NUT-WELD (M12X1.75 THD)						
	177-6208	1	SHEET AS						
	177-6216	1	SHEET AS						
	6P-2216	4	CAP-PUSH ON						
	138-5623	1	INSULATION (300MM X 560MM)						
	6P-2215	4	PIN-WELD						
M	8T-3597	3	NUT-WELD (M12X1.75 THD)						
	177-6220	1	SHEET AS						
	177-6221	1	LINER						
M	8T-3597	4	NUT-WELD (M12X1.75 THD)						
	177-6241	1	SHEET AS						
	177-6244	1	SHEET AS						
	177-6247	1	SHEET AS						
	177-6281	1	SHEET AS						
	177-6282	1	LINER						
	5P-8309		SEAL						
	177-5936	1	LINER						
	184-8638	1	SHEET AS						
	177-6162	2	LINER						
	184-8639	1	LINER						
M	8T-3597	1	NUT-WELD (M12X1.75 THD)						
	184-8642	1	SHEET AS						
	177-6230	1	LINER						
M	8T-3597	5	NUT-WELD (M12X1.75 THD)						
	184-8647	1	SHEET AS						
	177-6162	2	LINER						
	177-6265	1	LINER						
M	8T-3597	1	NUT-WELD (M12X1.75 THD)						
M	8T-3597	1	NUT-WELD (M12X1.75 THD)						
	184-8651	1	SHEET AS						
	7T-1099	2	LINK						
M	8T-3490	1	NUT-WELD (M10X1.5 THD)						
M	8T-3597	1	NUT-WELD (M12X1.75 THD)						
	184-8654	1	SHEET AS						
	184-8655	1	LINER						
	184-8656	1	LINER						
	184-8657	1	LINER						
	190-6985	1	SHEET AS						
	190-6986	1	LINER						
	190-6987	1	LINER						

FRAME AND BODY

192-2322 HOOD & GUARD GP (contd.)

i01548801

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	8T-3597	3	NUT-WELD (M12X1.75 THD)						
	199-0065	1	SHEET AS						
M	8T-3597	3	NUT-WELD (M12X1.75 THD)						
	177-6204	1	SHEET AS						
M	8T-3597	3	NUT-WELD (M12X1.75 THD)						
	204-6570	1	SHEET AS						
M	8T-3597	8	NUT-WELD (M12X1.75 THD)						
M	8T-3612	2	NUT-WELD (M8X1.25 THD)						
	4I-2599	3	SOCKET						
	7Y-2853	3	SPACER (5MM THK)						
	170-3016	2	SPACER						
	114-6286	1	SPRING						
	114-6287	1	SPRING						
	116-1628	1	SUPPORT AS						
	7Y-2885	1	SUPPORT						
	054-3788	2	ORIFICE						
	177-6193	1	SUPPORT AS						
	184-8164	1	SUPPORT AS						
M	8T-3490	10	NUT-WELD (M10X1.5 THD)						
M	8T-3597	11	NUT-WELD (M12X1.75 THD)						
	9R-3924	1	BOSS (M10X1.5X20.0MM)						
	184-8635	1	SUPPORT AS						
	204-6539	1	SUPPORT AS						
M	6V-9632	4	NUT-WELD (M6X1 THD)						
M	8T-3490	1	NUT-WELD (M10X1.5 THD)						
M	8T-3597	6	NUT-WELD (M12X1.75 THD)						
	204-6542	1	SUPPORT AS						
	7T-1099	1	LINK						
M	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	8T-3597	7	NUT-WELD (M12X1.75 THD)						
M	8T-3612	4	NUT-WELD (M8X1.25 THD)						
	204-6544	1	SUPPORT AS						
M	8T-3490	3	NUT-WELD (M10X1.5 THD)						
M	8T-3597	9	NUT-WELD (M12X1.75 THD)						
	204-6547	1	SUPPORT AS						
	177-6182	1	LINER						
	177-6285	1	LINER						
M	6V-9632	8	NUT-WELD (M6X1 THD)						
M	8T-3597	14	NUT-WELD (M12X1.75 THD)						
M	8T-3612	2	NUT-WELD (M8X1.25 THD)						
	204-6555	1	SUPPORT AS						
M	8T-3597	5	NUT-WELD (M12X1.75 THD)						
	204-6559	1	SUPPORT AS						
	204-6562	1	SUPPORT AS						
M	8T-3597	10	NUT-WELD (M12X1.75 THD)						
M	8T-3612	2	NUT-WELD (M8X1.25 THD)						
	204-6565	1	SUPPORT AS						
M	8T-3597	10	NUT-WELD (M12X1.75 THD)						
	204-6568	1	SUPPORT AS						
	9X-8256	4	WASHER (6.6X12X2MM THK)						
	5P-1076	6	WASHER-HARD (13.5X30X4MM THK)						
	5P-4115	12	WASHER-HARD (7.2X19X2MM THK)						
	8T-0328	4	WASHER-HARD (5.5X10X1MM THK)						
	8T-4121	7	WASHER-HARD (11X21X2.5MM THK)						
	8T-4223	3	WASHER-HARD (13.5X25.5X3MM THK)						
	8T-4224	8	WASHER-HARD (8.8X16X2MM THK)						
M-METRIC PART Y-SEPARATE ILLUSTRATION									

MEMORANDA

FRAME AND BODY

184-8281 HOOD GP-ENGINE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2322 HOOD & GUARD GP

SMCS-7251

i01382692

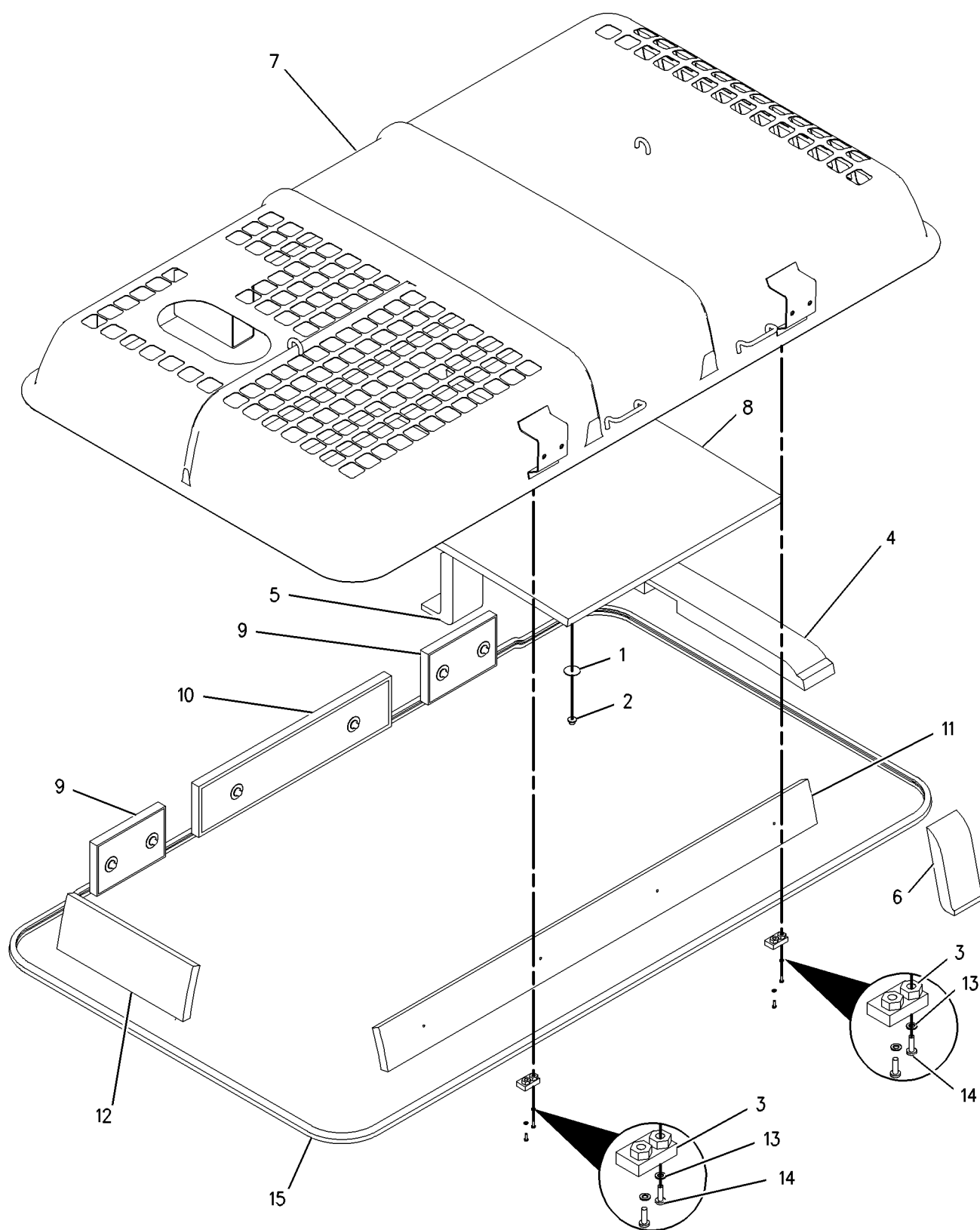
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-7924	18	WASHER						
	2	1	6P-2216	18	CAP-PUSH ON						
	3	1	096-4129	2	CUSHION						
	4	1	177-6276	1	LINER						
	5	1	177-6277	1	LINER						
	6	1	177-6278	1	LINER						
	7	1	184-8282	1	HOOD AS-ENGINE						
		1	6P-2215	18	PIN-WELD						
M		1	8T-3612	4	NUT-WELD (M8X1.25 THD)						
M		1	8T-8874	4	NUT-WELD (M5X0.8 THD)						
		1	114-6289	2	HINGE						
	8	1	190-7227	1	LINER						
	9	1	190-7228	2	LINER						
	10	1	190-7229	1	LINER						
	11	1	190-7230	1	LINER						
	12	1	190-7231	1	LINER						
	13	1	8T-0328	4	WASHER-HARD (5.5 X 10 X 1MM THK)						
M	14	1	8T-6693	4	SCREW-MACHINE (M5X0.8X16MM)						
D	15	1	101-9848		SEAL (6.5M)						

D- ORDER BY THE METER
M-METRIC PART

FRAME AND BODY

184-8281 HOOD GP - ENGINE (contd.)

i01382692



GRAPHIC #1

g00730509

FRAME AND BODY

161-9416 MOUNTING GP-CAB

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2339, 192-2340 RISER AR-CAB

SMCS-7301

i01513017

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	4I-0191	2	BOLT (M36X4.0X181MM)						
	2	1	9X-8259	4	WASHER (39X66X6MM THK)						
M	3	1	096-4879	4	NUT (M36X4 THD)						
B	4	1	141-7209	4	PLATE						
M	5	1	8T-5379	4	BOLT (M24X3.0X50MM)						
	6	1	8T-5439	1	WASHER (21.5X45X6MM THK)						
	7	1	161-9543	1	POSITIONER						
M	8	1	8T-4131	1	NUT (M20X2.5 THD)						
	9	1	8T-4167	4	WASHER-HARD (26X44X4MM THK)						

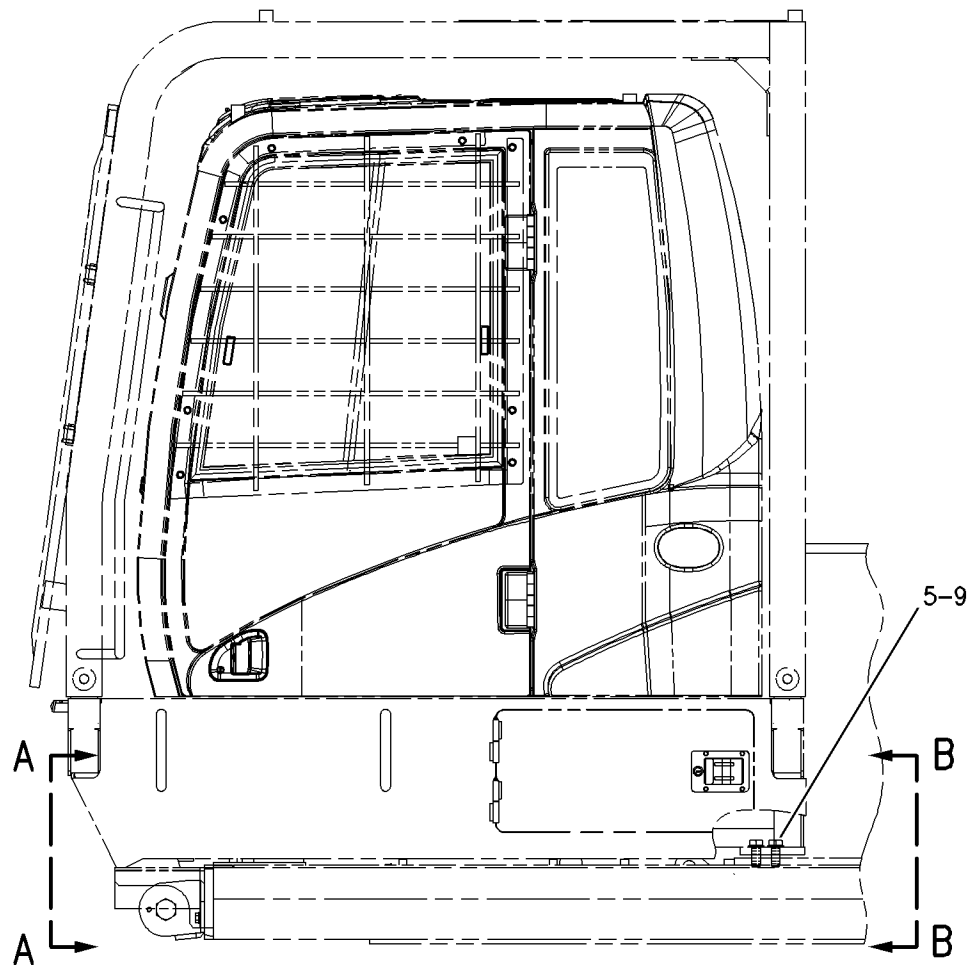
B-USE AS REQUIRED

M-METRIC PART

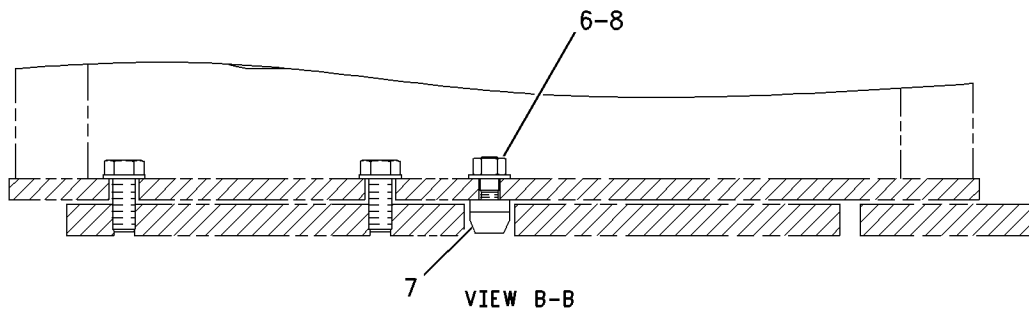
FRAME AND BODY

161-9416 MOUNTING GP - CAB (contd.)

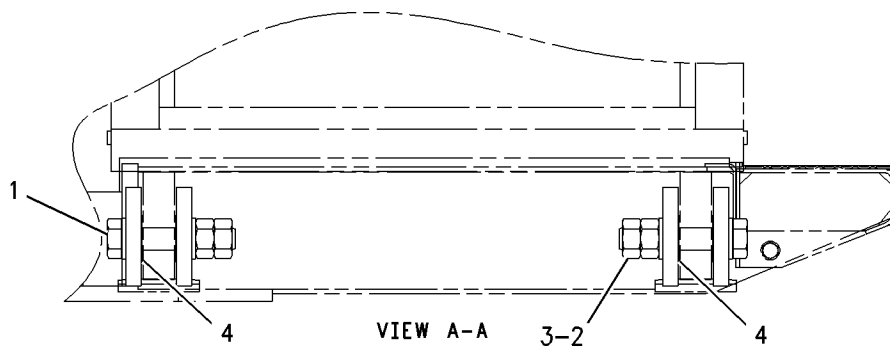
i01513017



LEFT SIDE VIEW



VIEW B-B



VIEW A-A

GRAPHIC #1

g00796147

FRAME AND BODY

161-9544 WALKWAY GP

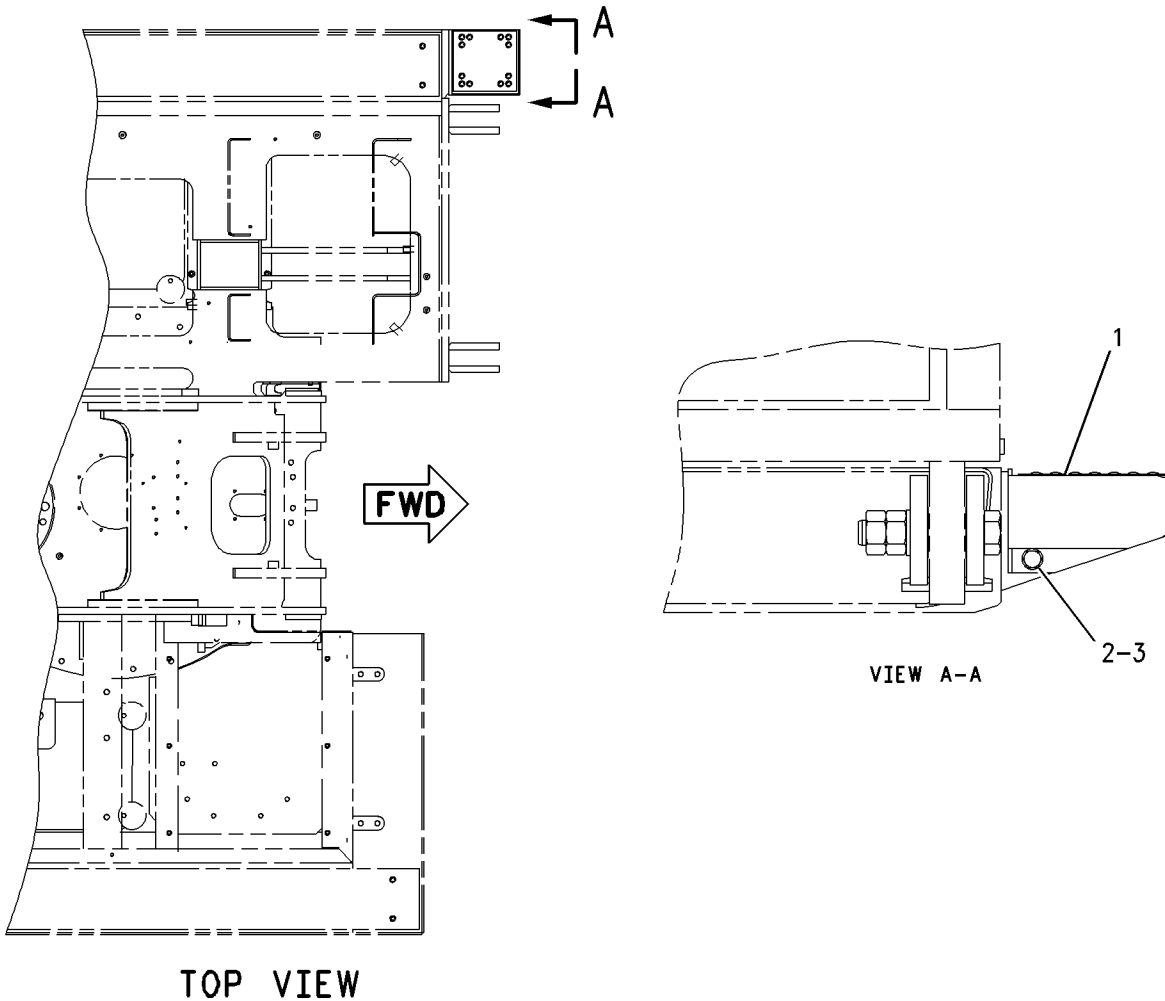
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7255

i01507766

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9548	1	WALKWAY AS						
M	2	1	7X-2553	3	BOLT (M16X2X40MM)						
	3	1	9X-8257	3	WASHER (17.5X30X3.5MM THK)						
M-METRIC PART											



GRAPHIC #1

g00728976

UNDERCARRIAGE

179-2998 ADJUSTMENT GP-HYDRAULIC TRACK

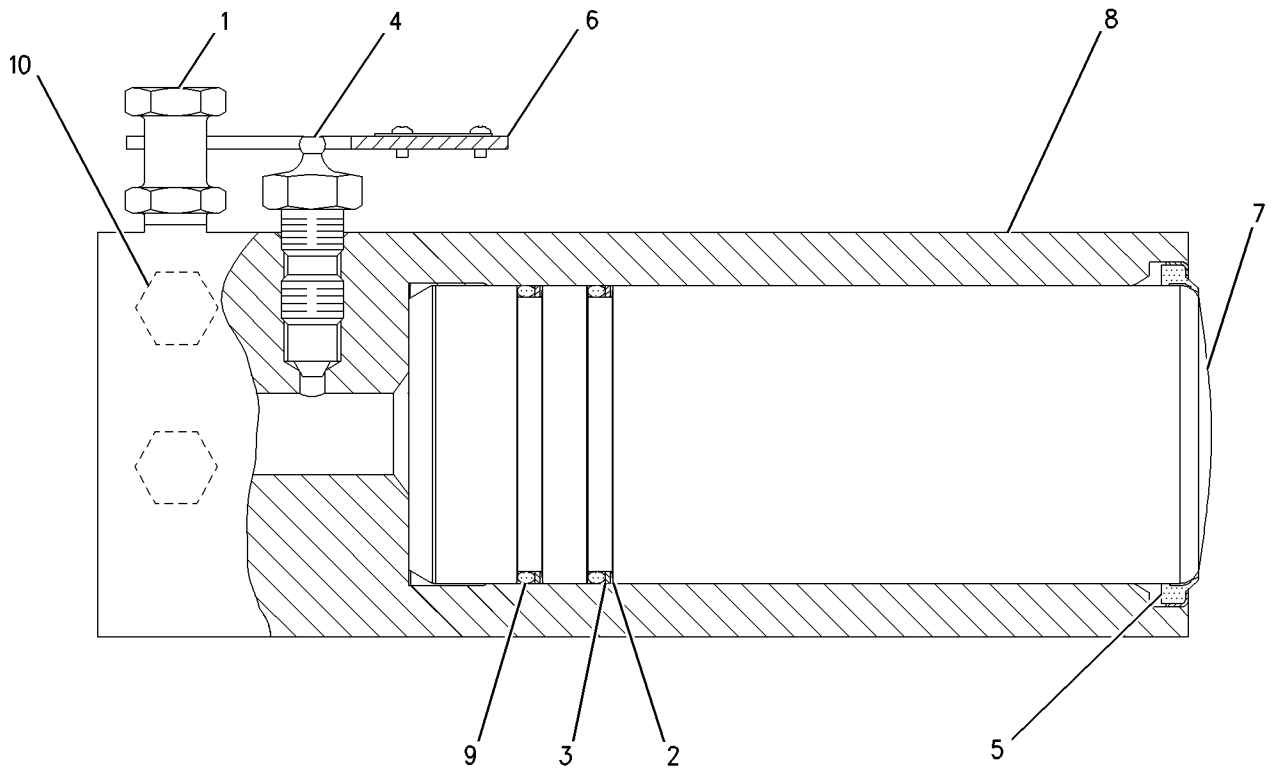
S/N: BPH1-UP

PART OF 194-1146 IDLER GP-FRONT

SMCS-4157

i01523450

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2S-5926	1	VALVE (RELIEF)						
	2	1	7Y-1257	2	RING-BACKUP						
	3	1	093-1514	2	RING-BACKUP						
	4	1	095-2927	1	VALVE-FILL						
	5	1	099-0121	1	SEAL-LIP						
	6	1	113-2824	1	PLATE AS						
		1	4B-4158	4	SCREW-DRIVE (3/16X0.25 IN)						
	7	1	179-3007	1	PISTON						
	8	1	179-3008	1	CYLINDER						
	9	1	095-1622	2	SEAL-O-RING						
M	10	1	8T-4191	2	BOLT (M10X1.5X16MM)						
M-METRIC PART											



GRAPHIC #1

g00730545

UNDERCARRIAGE

179-3043 ADJUSTMENT GP-HYDRAULIC TRACK

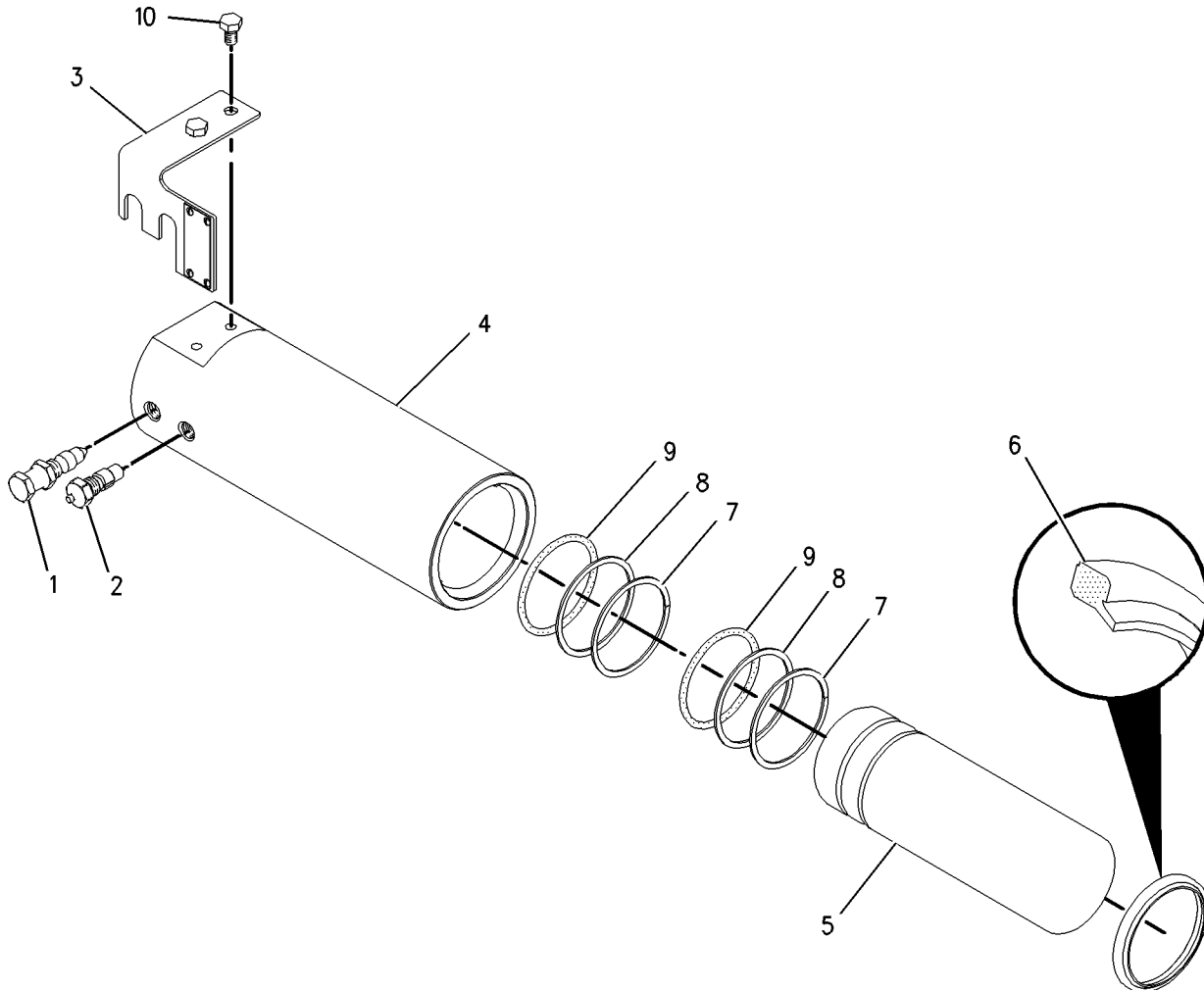
S/N: CAM1-UP; CBY1-UP

PART OF 176-4877 IDLER GP-FRONT

SMCS-4157

i01523521

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2S-5926	1	VALVE (RELIEF)						
	2	1	095-2927	1	VALVE-FILL						
	3	1	113-2824	1	PLATE AS						
		1	4B-4158	4	SCREW-DRIVE (3/16X0.25 IN)						
	4	1	179-3044	1	CYLINDER						
	5	1	179-3045	1	PISTON						
	6	1	179-3046	1	SEAL-LIP TYPE						
	7	1	179-3047	2	RING-BACKUP						
	8	1	179-3048	2	RING-BACKUP						
	9	1	095-1623	2	SEAL-O-RING						
M	10	1	8T-4191	2	BOLT (M10X1.5X16MM)						
M-METRIC PART											



GRAPHIC #1

g00795172

UNDERCARRIAGE

186-3944 FRAME AR-UNDERCARRIAGE

S/N: BPH1-UP

PART OF 192-2311 GENERAL AR

SMCS-4151

i01504410

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	189-4104	1	FRAME AS-UNDERCARRIAGE						246
Y	171-9472	1	GEAR & BEARING GP-SWING						218
Y	134-8853	1	GUARD GP-SWIVEL						228
Y	189-4110	1	GUARD GP-TRACK GUIDE						250
Y	178-0895	1	GUARD GP-TRAVEL MOTOR						253
Y	194-1146	1	IDLER GP-FRONT						259
Y	179-3070	1	ROLLER AR-TRACK & CARRIER						263
Y	197-1435	2	TRACK GP						273

UNDERCARRIAGE

186-3945 FRAME AR-UNDERCARRIAGE

S/N: CAM1-UP; CBY1-UP

HIGH WIDE

PART OF 192-2313, 192-2315 GENERAL AR

SMCS-4151

i01514038

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	189-4100	1	FRAME AS-UNDERCARRIAGE						244
Y	199-4515	1	GEAR & BEARING GP -SWING						222
Y	100-3721	1	GUARD GP-SWIVEL						227
Y	189-4108	1	GUARD GP-TRACK GUIDE						249
Y	129-0061	1	GUARD GP-TRAVEL MOTOR						252
Y	176-4877	1	IDLER GP-FRONT						256
Y	176-4878	1	ROLLER AR-TRACK & CARRIER						262
Y	199-2795	2	TRACK GP						277
Y-SEPARATE ILLUSTRATION									

MEMORANDA

UNDERCARRIAGE

189-4100 FRAME AS-UNDERCARRIAGE

S/N: CAM1-UP; CBY1-UP

PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-4150

i01505935

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	189-4101	1	FRAME AS-CARBODY						
	2	1	189-4103	1	FRAME AS-TRACK						
	3	1	189-4102	1	FRAME AS-TRACK						
	4	1	129-0002	4	PLATE						
	5	1	113-2316	2	PLATE						
	6	1	195-5290	4	PLATE						
	7	1	195-5291	4	PLATE						
	8	1	195-5292	4	PLATE						
	9	1	195-5293	4	PLATE						
	10	1	195-5294	8	PLATE						
	11	1	5J-1208	4	STRIP						
	12	1	4I-7196	1	COVER AS						
	13	1	6C-1886	1	PLATE						
	14	1	192-8521	2	PLATE						

UNDERCARRIAGE

189-4100 FRAME AS-UNDERCARRIAGE (contd.)i01505935

This technical drawing illustrates the 189-4100 FRAME AS-UNDERCARRIAGE. The central feature is the **TOP VIEW**, which shows a symmetrical frame with a central circular component (12) and various mounting points (1, 13, 14). A **FWD** (Forward) arrow indicates the orientation. Surrounding the top view are several detailed sections and views:

- SECTION N-N**: A cross-section of the frame's side structure, showing internal components and mounting points (P, P).
- VIEW P-P**: A side view of the frame, showing the profile of the main body (1) and the mounting bracket (14).
- SECTION K-K**: A cross-section of the frame's end structure, showing the internal components and mounting points (5, 7, 8, 9, 10, 11).
- VIEW OF AREA G**: A detailed view of the mounting bracket (6) and its connection to the frame (7, 8, 9, 10, 11).
- VIEW OF AREA E**: A detailed view of the mounting bracket (6) and its connection to the frame (7, 8, 9, 10, 11).

The drawing includes numerous callouts and labels for specific components and features, such as 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, and 15. The drawing is identified as **GRAPHIC #1** and is part of a set of 2 of 2.

g00801127

SEBP32752 of 2UNDERCARRIAGE 245

UNDERCARRIAGE

189-4104 FRAME AS-UNDERCARRIAGE

S/N: BPH1-UP

PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-4150

i01504106

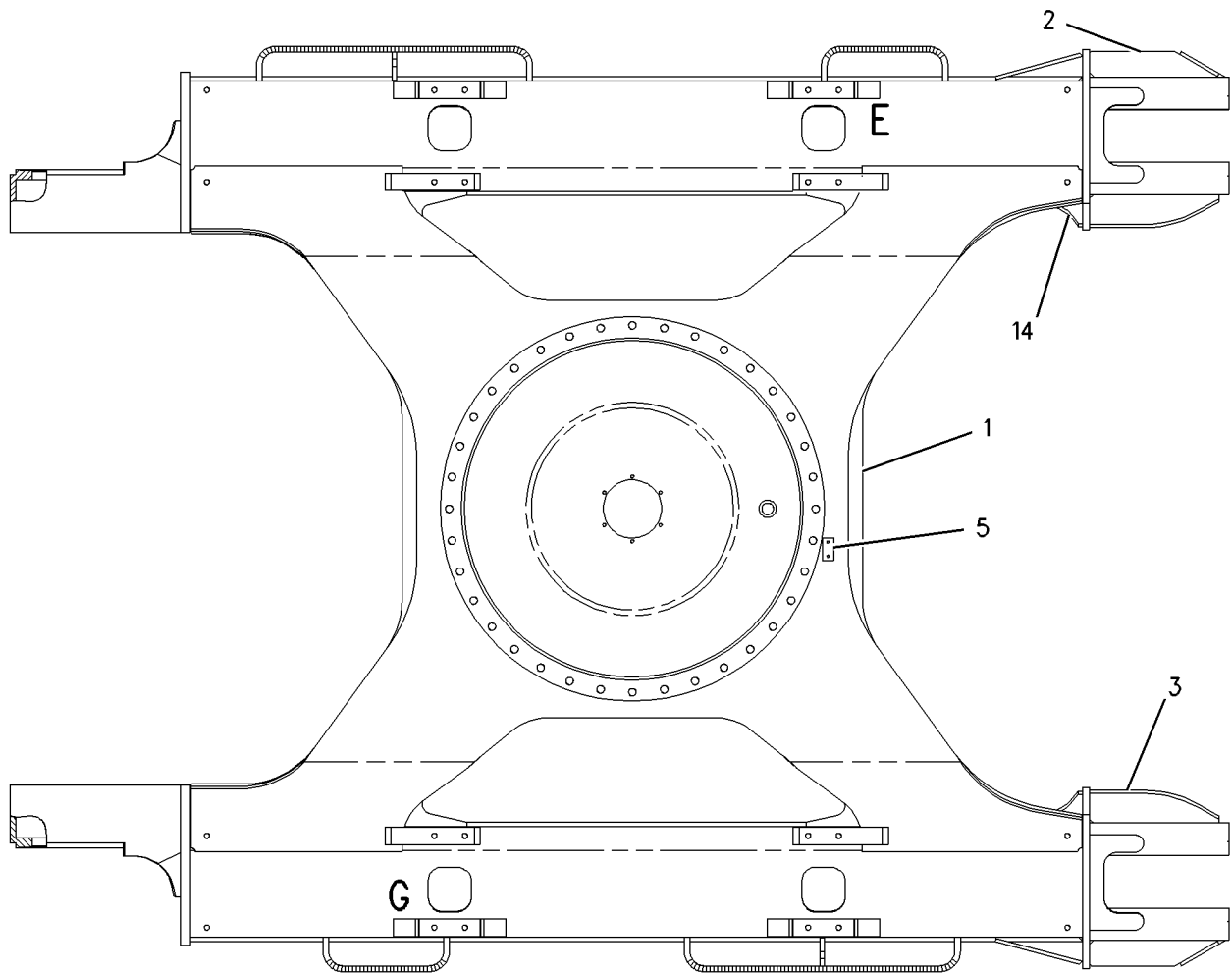
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	189-4105	1	FRAME AS-CARBODY						
	2	1	189-4107	1	FRAME AS-TRACK						
	3	1	189-4106	1	FRAME AS-TRACK						
	4	1	178-0817	1	COVER AS						
B	5	1	6C-1886	1	PLATE						
	6	2	133-2555	4	PLATE						
	7	2	195-5290	4	PLATE						
	8	2	198-5626	4	PLATE						
	9	2	198-5627	4	PLATE						
	10	2	198-5628	4	PLATE						
	11	2	198-5629	4	PLATE						
	12	2	198-5630	4	PLATE						
	13	2	192-8521	2	PLATE						
	14	1	136-8076	2	PLATE						

B-USE AS REQUIRED

UNDERCARRIAGE

189-4104 FRAME AS-UNDERCARRIAGE (contd.)

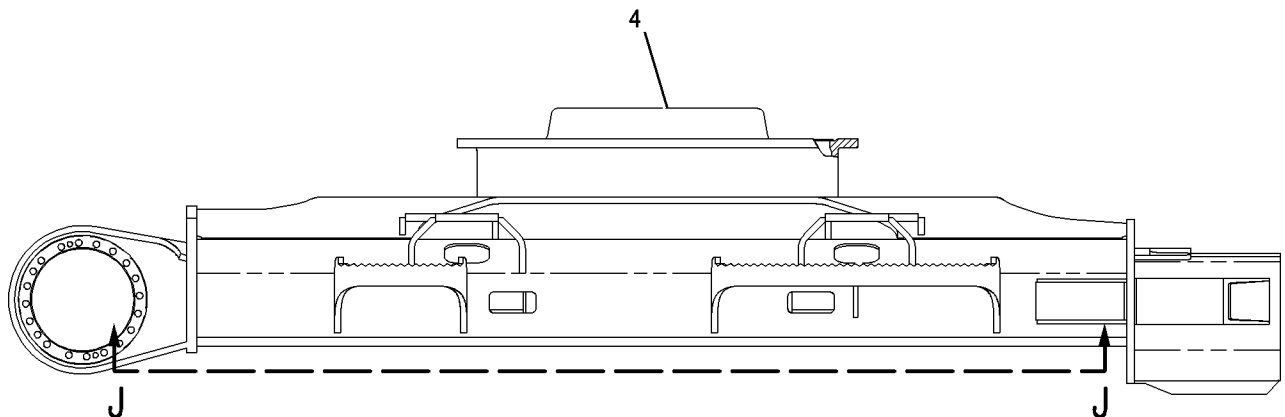
i01504106



TOP VIEW



REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



RIGHT SIDE VIEW

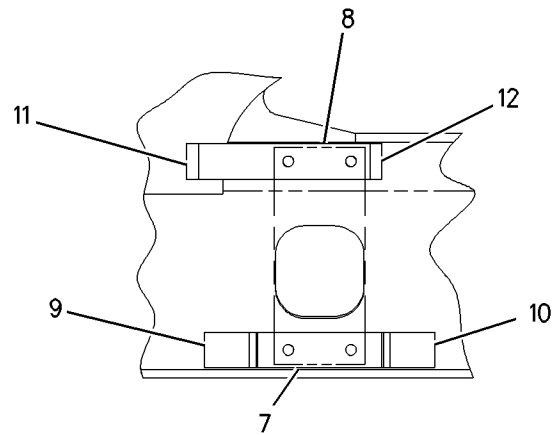
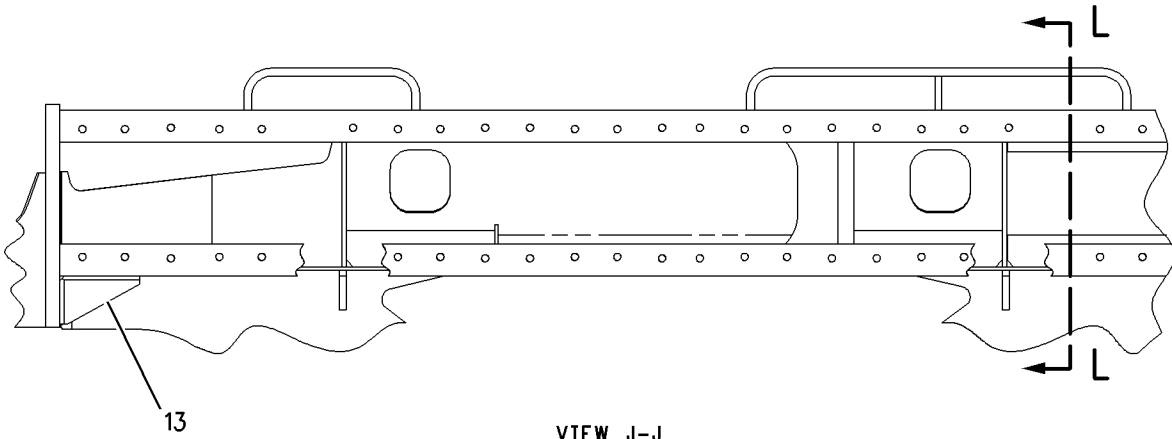
GRAPHIC #1

g00803405

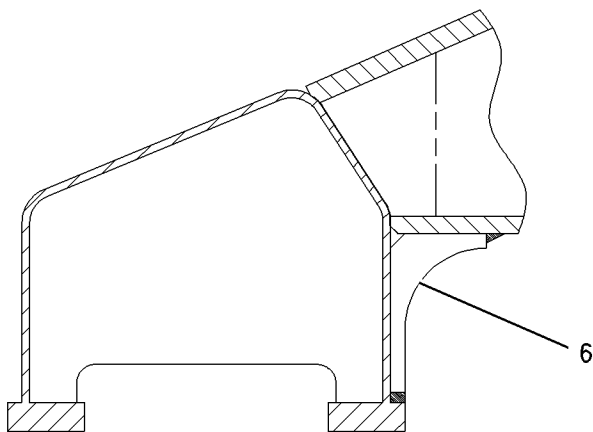
UNDERCARRIAGE

189-4104 FRAME AS-UNDERCARRIAGE (contd.)

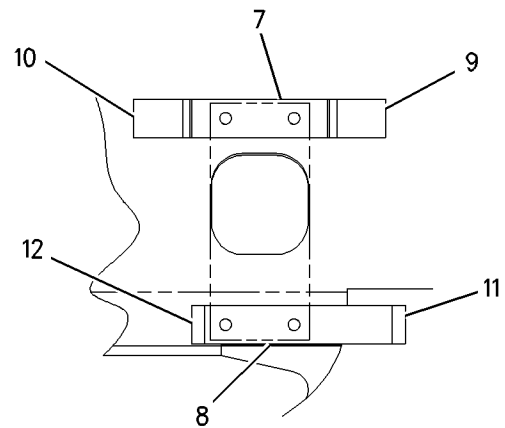
i01504106



VIEW OF AREA G



SECTION L-L



VIEW OF AREA E

GRAPHIC #2

g00802906

UNDERCARRIAGE

189-4108 GUARD GP-TRACK GUIDE

S/N: CAM1-UP; CBY1-UP

SHOE SUPPORT

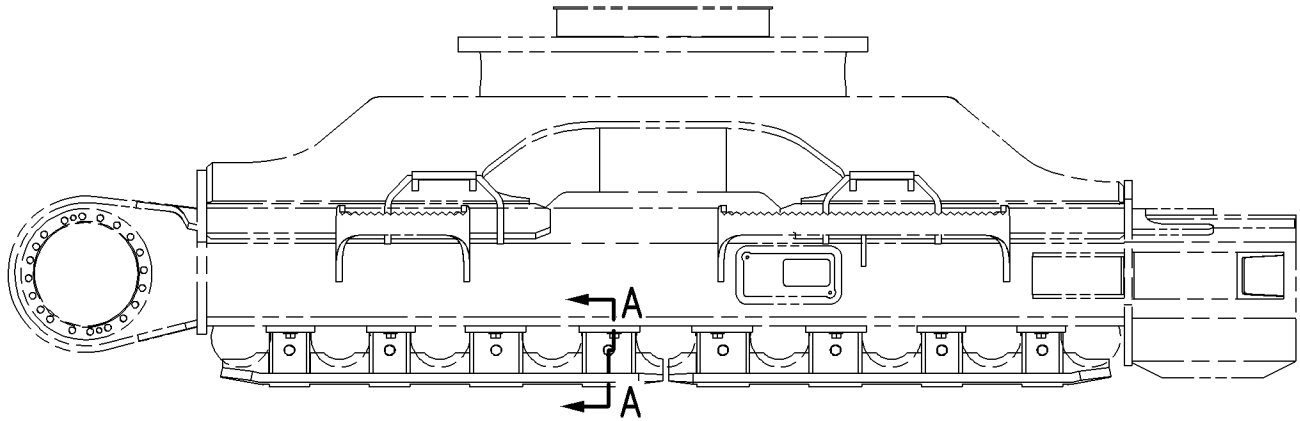
PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-4177

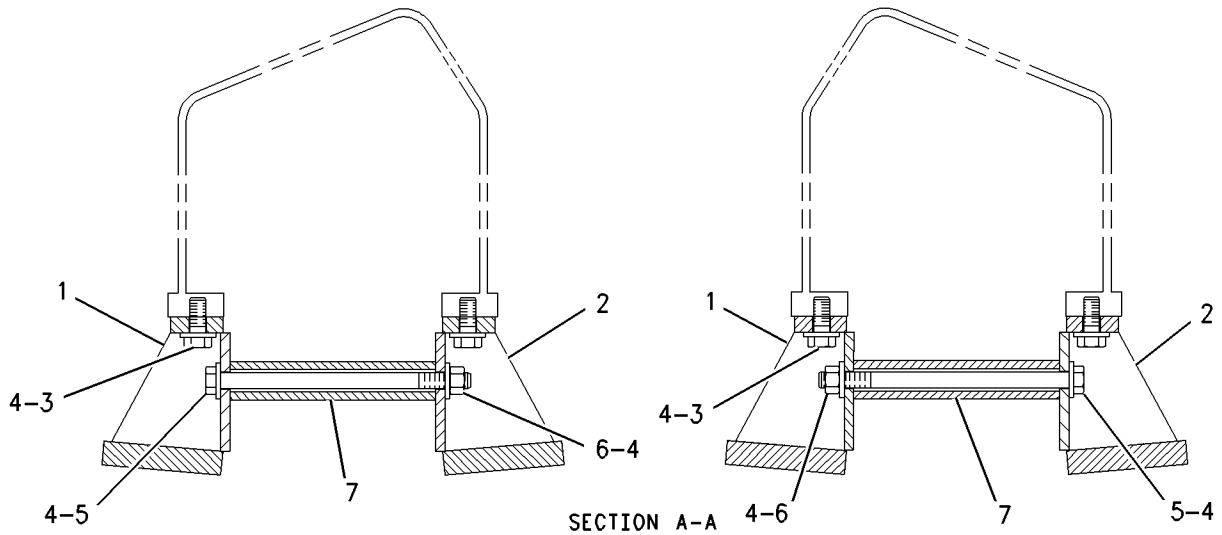
i01505929

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-8458	4	GUARD AS-TRACK GUIDE						
	2	1	192-8459	4	GUARD AS-TRACK GUIDE						
M	3	1	8T-6430	32	BOLT (M20X2.5X50MM)						
	4	1	8T-5439	64	WASHER (21.5X45X6MM THK)						
M	5	1	7X-2440	16	BOLT (M20X2.5X320MM)						
M	6	1	8T-4131	16	NUT (M20X2.5 THD)						
	7	1	192-8460	16	PIPE						

M-METRIC PART



RIGHT SIDE VIEW



SECTION A-A

GRAPHIC #1

g00795248

UNDERCARRIAGE

189-4110 GUARD GP-TRACK GUIDE

S/N: BPH1-UP

PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-4177

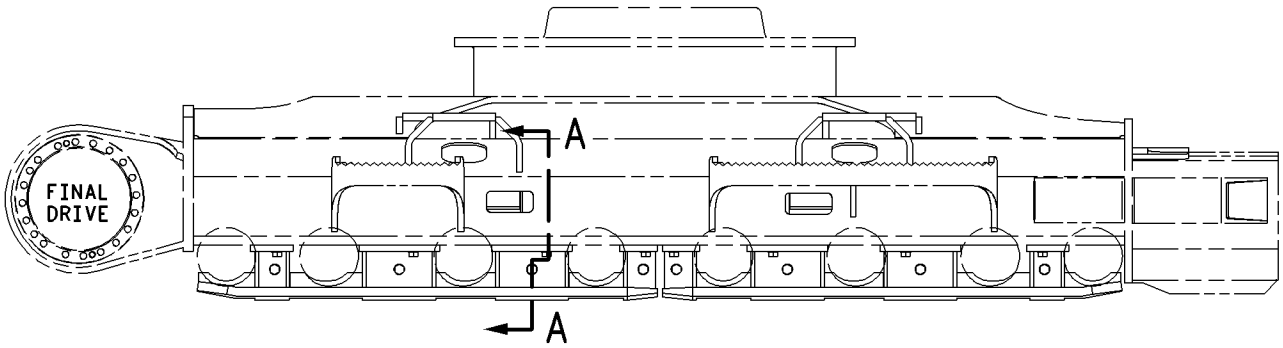
i01504119

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	198-5596	4	GUARD AS-TRACK GUIDE	
	2	1	198-5597	4	GUARD AS-TRACK GUIDE	
	3	1	5Q-3369	16	BAR	
M	4	1	8T-6430	32	BOLT (M20X2.5X50MM)	
	5	1	8T-4123	64	WASHER-PLATED (22X35X3.5MM THK)	
M	6	1	8T-5460	32	BOLT (M20X2.5X40MM)	
M-METRIC PART						

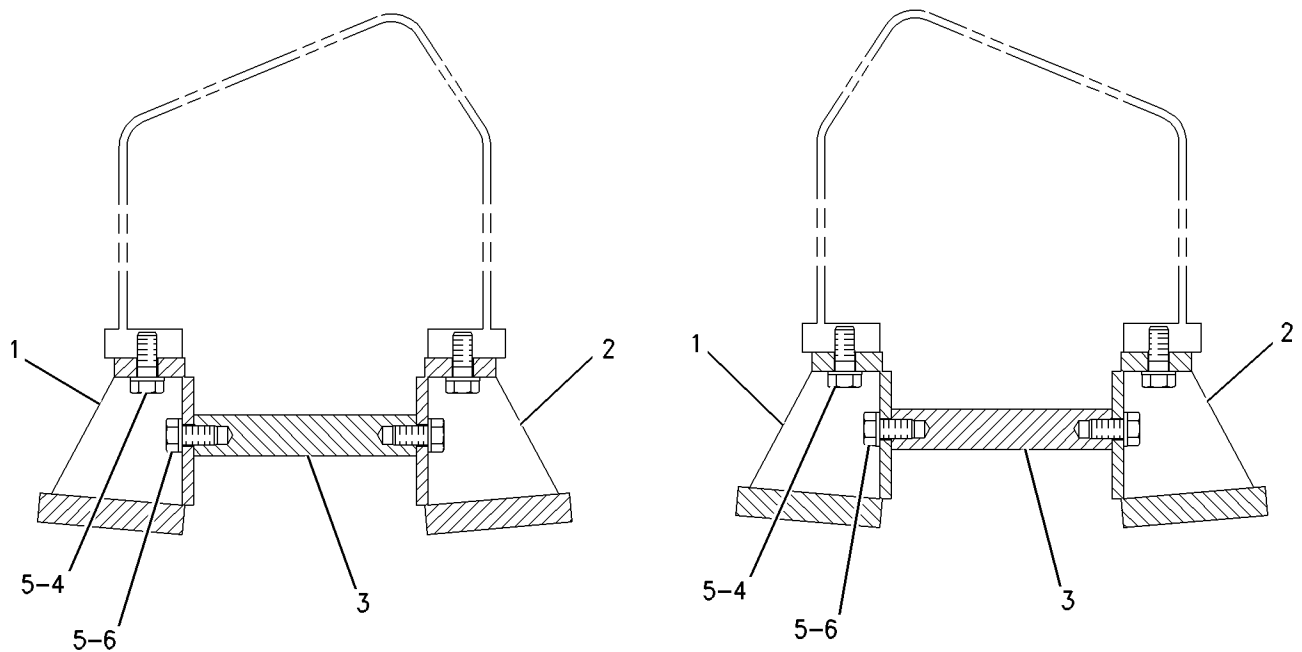
UNDERCARRIAGE

189-4110 GUARD GP-TRACK GUIDE (contd.)

i01504119



RIGHT SIDE VIEW



SECTION A-A

GRAPHIC #1

g00799729

UNDERCARRIAGE

129-0061 GUARD GP-TRAVEL MOTOR

S/N: CAM1-UP; CBY1-UP

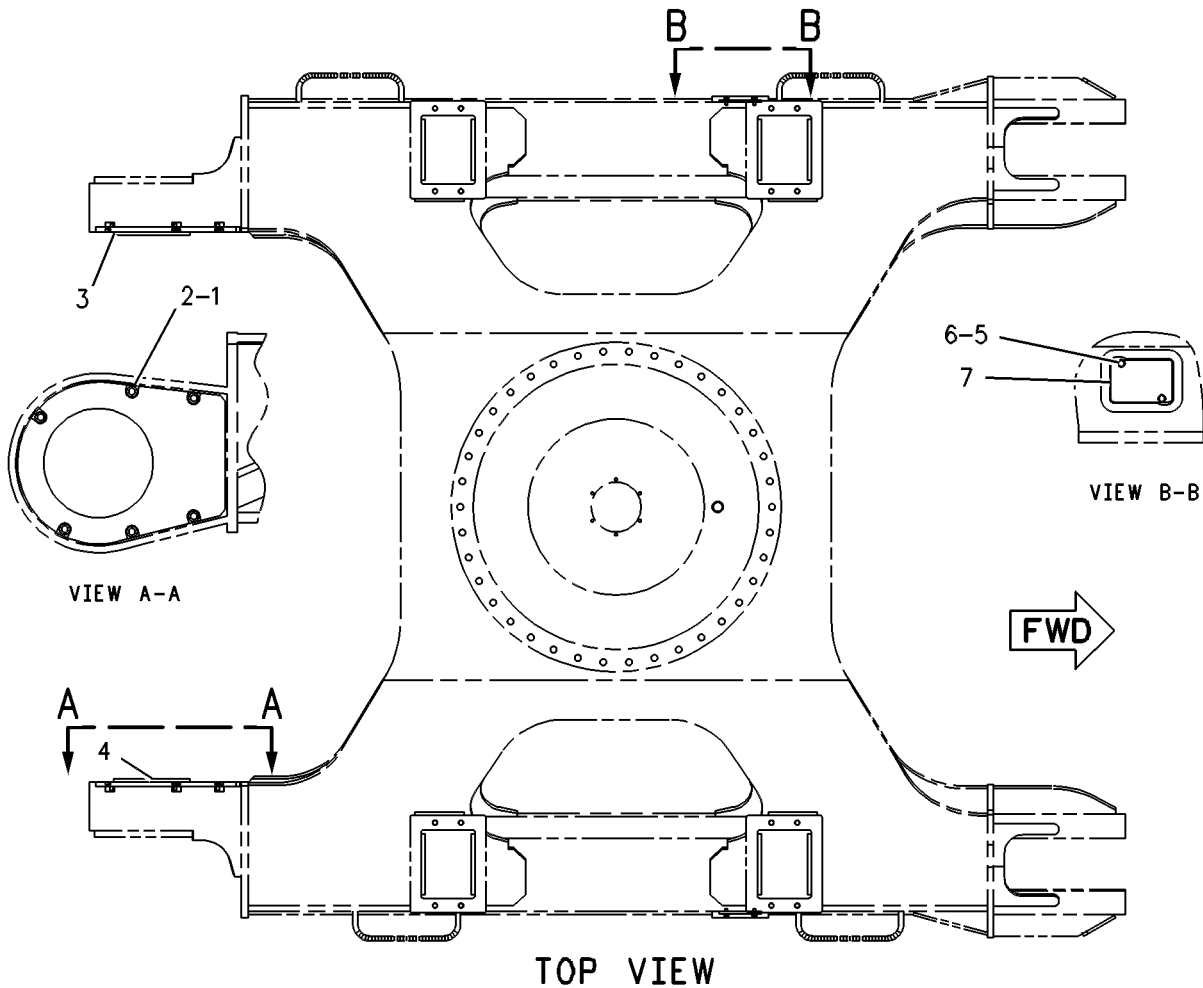
PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-7163

i00619260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8C-8992	12	BOLT-LOCKING (M12X1.75X30MM)						
	2	1	5P-1076	12	WASHER-HARD (4MM THK)						
	3	1	130-4183	1	COVER AS						
	4	1	130-4182	1	COVER AS						
M	5	1	8T-4136	4	BOLT (M10X1.50X25MM)						
	6	1	8T-4121	4	WASHER (2.5MM THK)						
	7	1	130-4187	2	COVER						

M-METRIC PART



GRAPHIC #1

g00258122

UNDERCARRIAGE

178-0895 GUARD GP-TRAVEL MOTOR

S/N: BPH1-UP

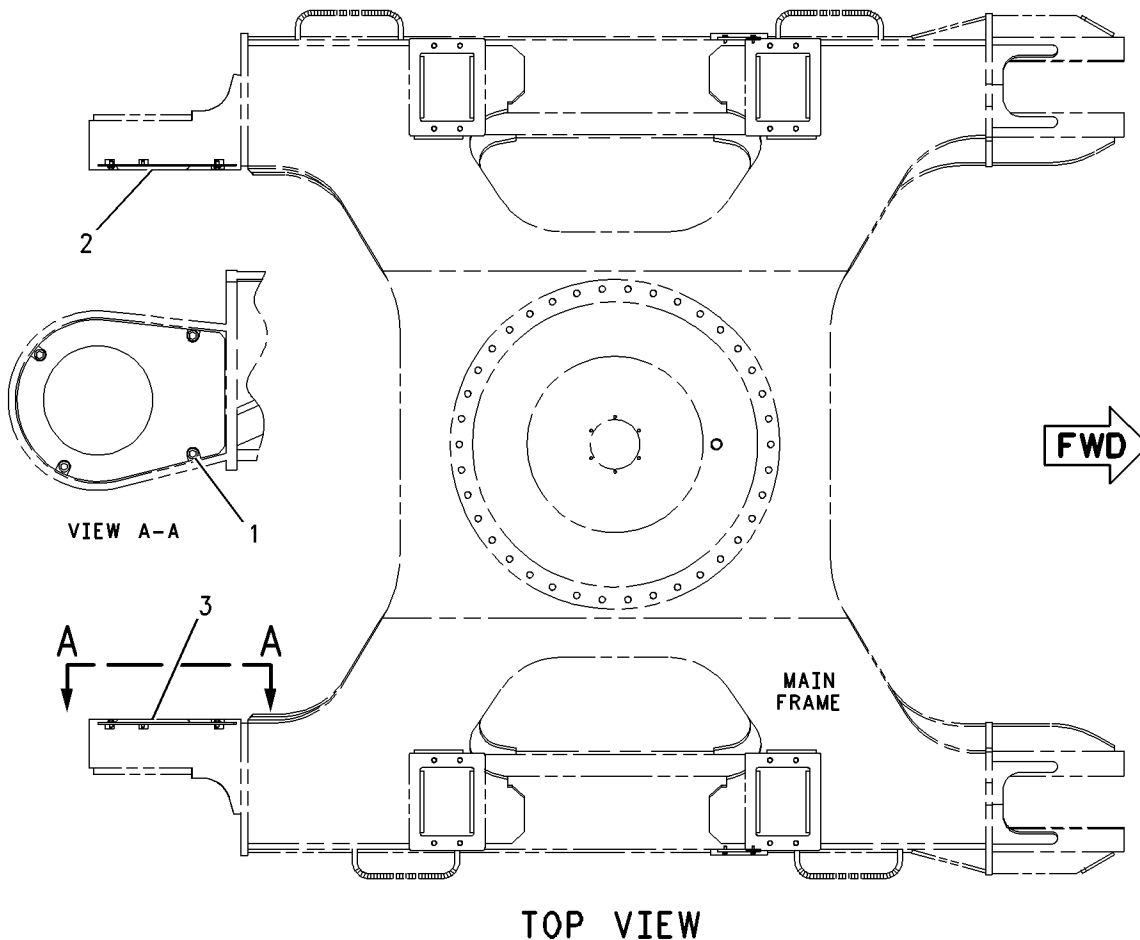
PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-7163

i01396869

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	135-8576	8	BOLT AS (M12)						
					(EACH INCLUDES)						
		1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M		1	8C-8992	1	BOLT-LOCKING (M12X1.75X30MM)						
	2	1	178-0896	1	COVER AS (TRAVEL MOTOR)						
	3	1	178-0897	1	COVER AS (TRAVEL MOTOR)						

M-METRIC PART



GRAPHIC #1

g00736764

UNDERCARRIAGE

115-3696 IDLER GP-FRONT

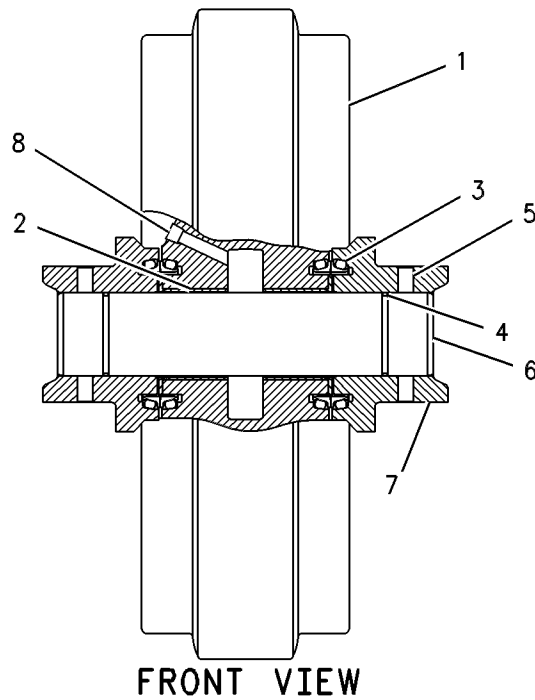
S/N: CAM1-UP; CBY1-UP

PART OF 115-6417 IDLER GP-FRONT

SMCS-4159

i00619309

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-7471	1	IDLER & BEARING AS						
	2	1	6Y-2272	1	BEARING-IDLER						
	3	1	109-0885	2	SEAL GP-DUO-CONE						
		1	6Y-2270	2	RING-SEALING						
	4	1	8F-8882	2	SEAL-O-RING (66.27MM ID)						
	5	1	6Y-2266	2	PIN						
	6	1	112-9951	1	SHAFT-IDLER						
	7	1	115-3697	2	BEARING						
	8	1	7H-3171	1	PLUG-PIPE (1/4-18 NPTF)						



GRAPHIC #1

g00258120

UNDERCARRIAGE

115-6417 IDLER GP-FRONT

S/N: CAM1-UP; CBY1-UP

PART OF 176-4877 IDLER GP-FRONT

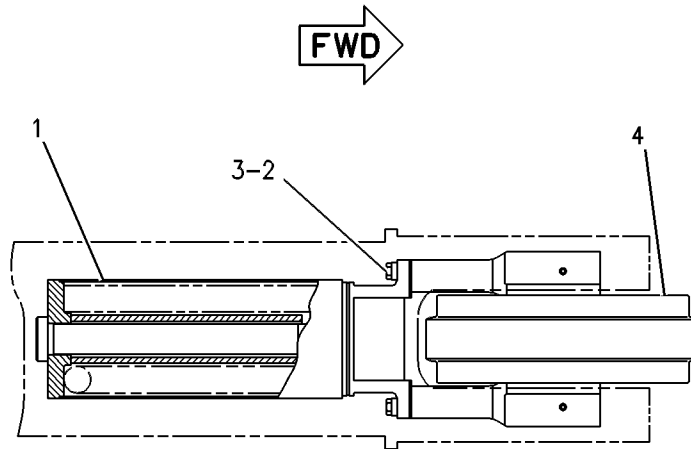
SMCS-4159

i00619380

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	101-7875	1	SPRING GP-RECOIL						270
M	2	1	7X-2563	4	BOLT (M20X2.5X60MM)						
	3	1	8N-5798	4	SPACER						
Y	4	1	115-3696	1	IDLER GP-FRONT						254

M-METRIC PART

Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

g00258118

UNDERCARRIAGE

176-4877 IDLER GP-FRONT

S/N: CAM1-UP; CBY1-UP

PART OF 186-3945 FRAME AR-UNDERCARRIAGE

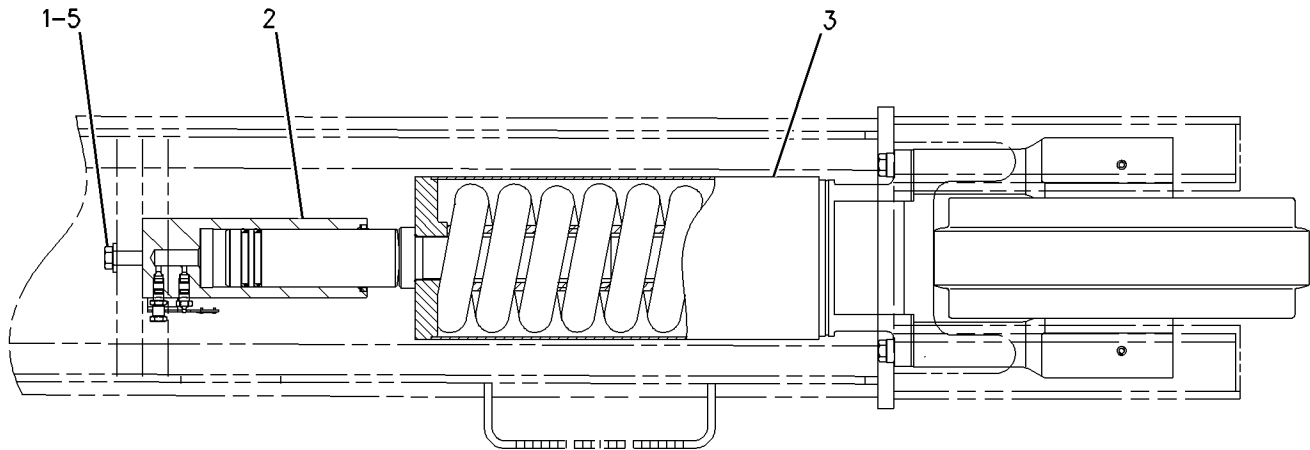
SMCS-4159

i01505922

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4141	4	BOLT (M20X2.5X70MM)						
Y	2	1	179-3043	2	ADJUSTMENT GP-HYDRAULIC TRACK						240
Y	3	1	115-6417	2	IDLER GP-FRONT						255
	5	1	8T-5439	4	WASHER (21.5X45X6MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

g00795103

UNDERCARRIAGE

194-1130 IDLER GP-FRONT

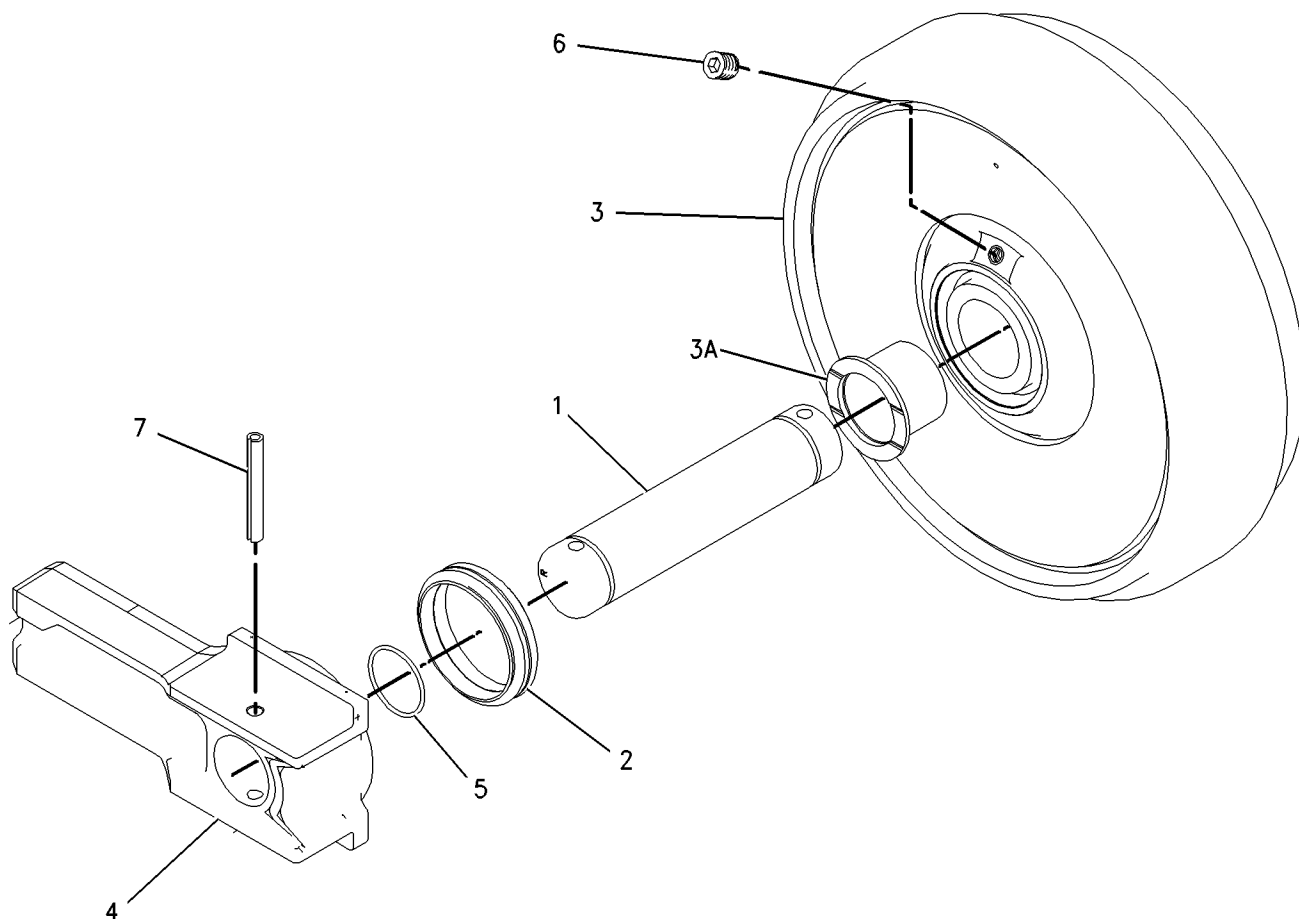
S/N: BPH1-UP

PART OF 194-1135 IDLER GP-FRONT

SMCS-4159

i01548833

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-9597	1	SHAFT - IDLER						
	2	1	109-0885	2	SEAL GP-DUO-CONE						
		1	6Y-2270	2	RING-SEALING						
	3	1	115-4931	1	IDLER & BEARING AS						
	3A	1	6I-9587	2	BEARING-IDLER						
	4	1	194-1131	2	BEARING-IDLER						
	5	1	1H-5728	2	SEAL-O-RING						
	6	1	7H-3171	1	PLUG-PIPE						
	7	1	9W-9455	2	PIN						



GRAPHIC #1

g00801148

UNDERCARRIAGE

194-1135 IDLER GP-FRONT

S/N: BPH1-UP

PART OF 194-1146 IDLER GP-FRONT

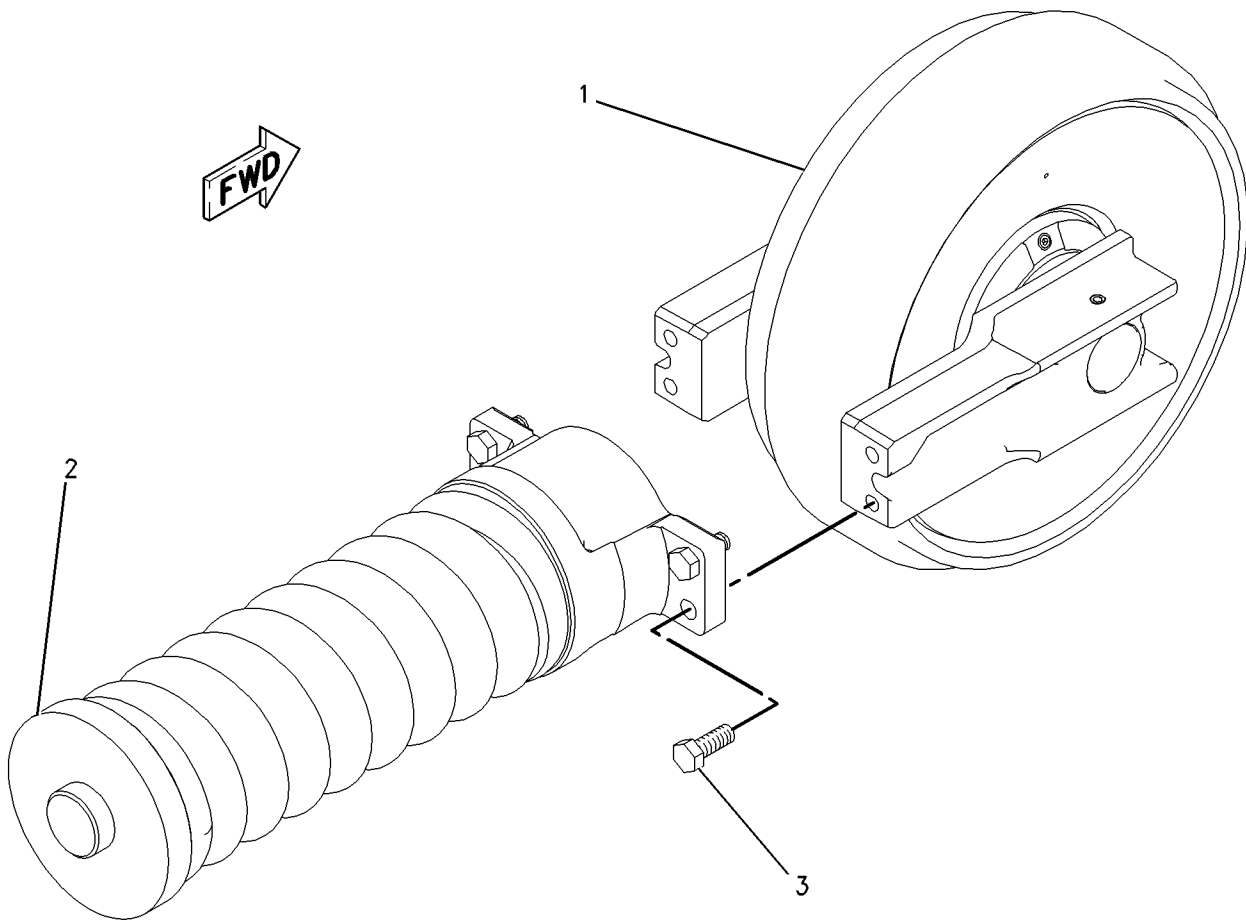
SMCS-4159

i01523366

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	194-1130	1	IDLER GP-FRONT						257
Y	2	1	194-1147	1	SPRING GP-RECOIL						271
M	3	1	8T-4193	4	BOLT (M16X2X50MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00773531

UNDERCARRIAGE

194-1146 IDLER GP-FRONT

S/N: BPH1-UP

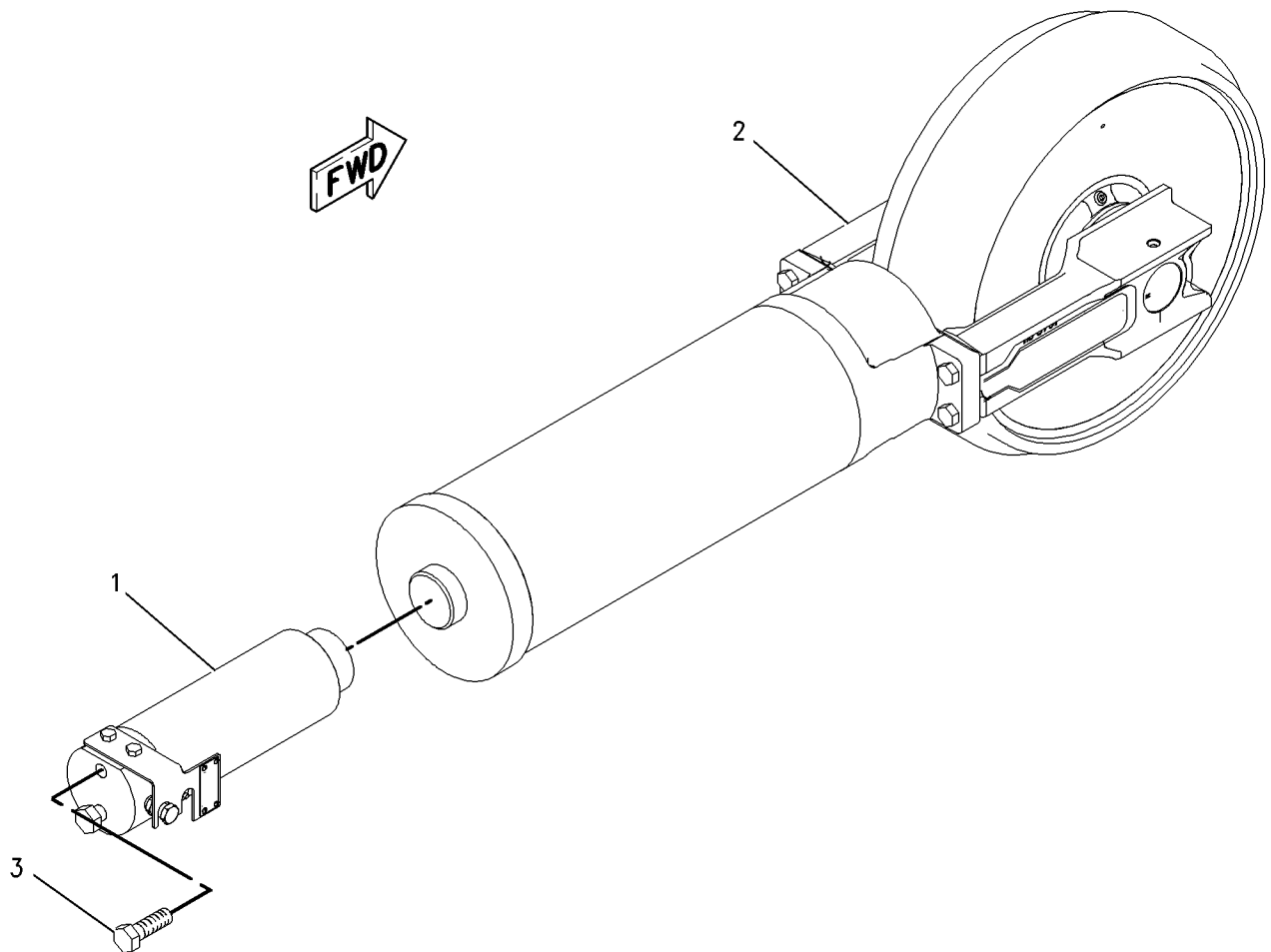
PART OF 186-3944 FRAME AR-UNDERCARRIAGE

SMCS-4159

i01504144

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	179-2998	2	ADJUSTMENT GP-HYDRAULIC TRACK						239
Y	2	1	194-1135	2	IDLER GP-FRONT						258
M	3	1	7X-2563	4	BOLT (M20X2.5X60MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00733388

UNDERCARRIAGE

195-9344 LINK AS-TRACK

S/N: BPH1-UP

GREASED LUBRICATED TRACK

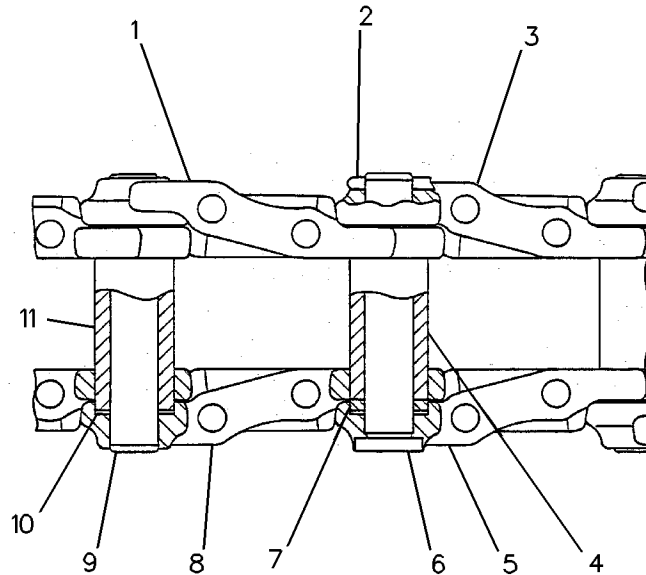
PART OF 196-7618, 197-1435, 197-1436 TRACK GP

ALSO AN ATTACHMENT

SMCS-4169, 4171

i01424350

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	9W-3138	50	LINK-TRACK-LH	
	2	1	095-0863	1	COTTER	
	3	1	8E-8586	1	LINK-MASTER-LH	
	4	1	190-3524	1	BUSHING-MASTER	
	5	1	8E-8585	1	LINK-MASTER-RH	
	6	1	188-3064	1	PIN-TRACK MASTER	
	7	1	158-4381	2	SEAL-TRACK MASTER	
	8	1	9W-3137	50	LINK-TRACK-RH	
	9	1	6Y-8186	50	PIN-TRACK	
	10	1	158-4380	100	SEAL-TRACK	
	11	1	190-3523	50	BUSHING-TRACK	



GRAPHIC #1

g00224749

UNDERCARRIAGE

201-9117 LINK AS-TRACK

S/N: CAM1-UP; CBY1-UP

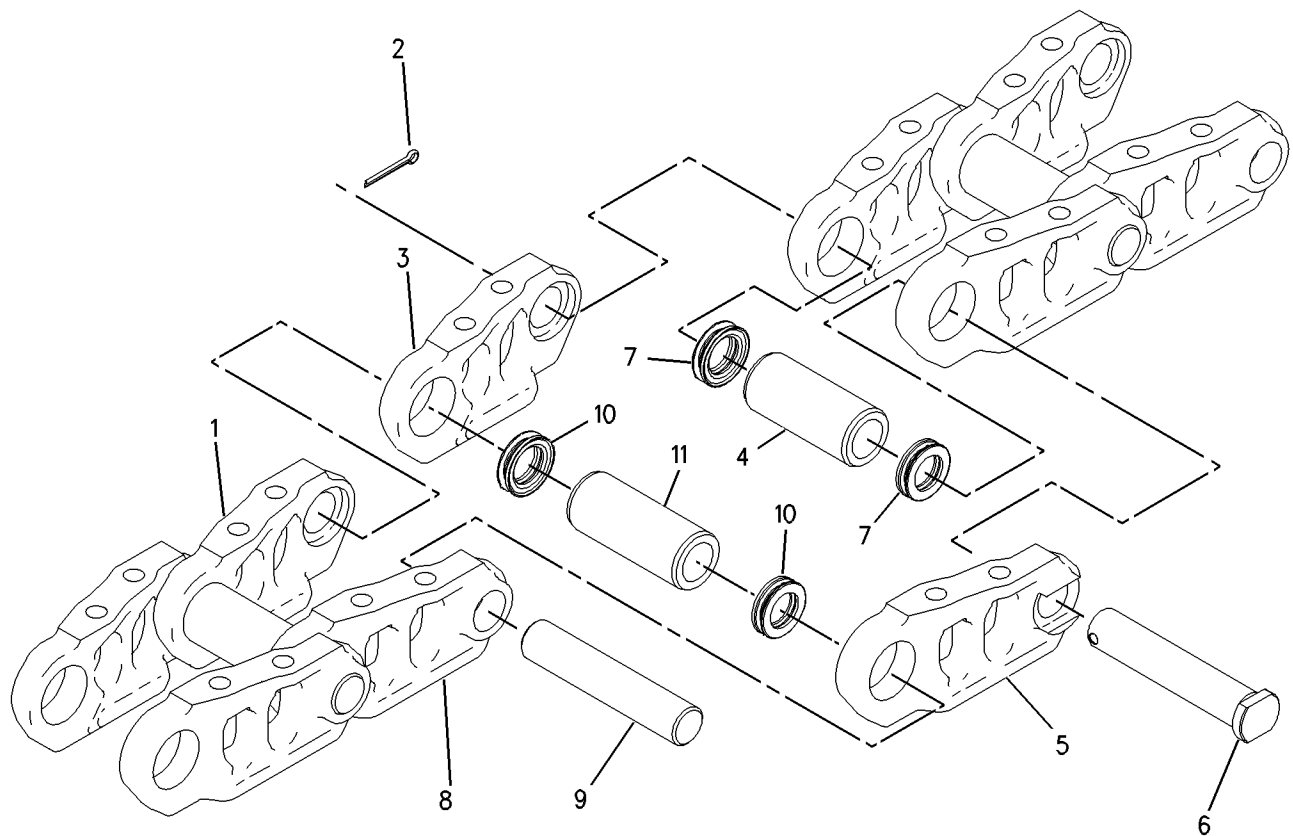
PART OF 199-2784, 199-2791, 199-2795 TRACK GP

ALSO AN ATTACHMENT

SMCS-4169, 4171

i01509602

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6Y-1608	47	LINK-TRACK (LH)						
	2	1	095-7944	1	COTTER						
	3	1	115-1854	1	LINK-MASTER-LH						
	4	1	201-0826	1	BUSHING-TRACK						
	5	1	115-1853	1	LINK-MASTER-RH						
	6	1	188-3065	1	PIN-TRACK MASTER						
	7	1	179-3427	2	SEAL-TRACK						
	8	1	6Y-1607	47	LINK-TRACK (RH)						
	9	1	6Y-0851	47	PIN-TRACK						
	10	1	179-3425	94	SEAL-TRACK						
	11	1	201-0825	47	BUSHING-TRACK						



GRAPHIC #1

g00793250

UNDERCARRIAGE

176-4878 ROLLER AR-TRACK & CARRIER

S/N: CAM1-UP; CBY1-UP

TRACK & CARRIER

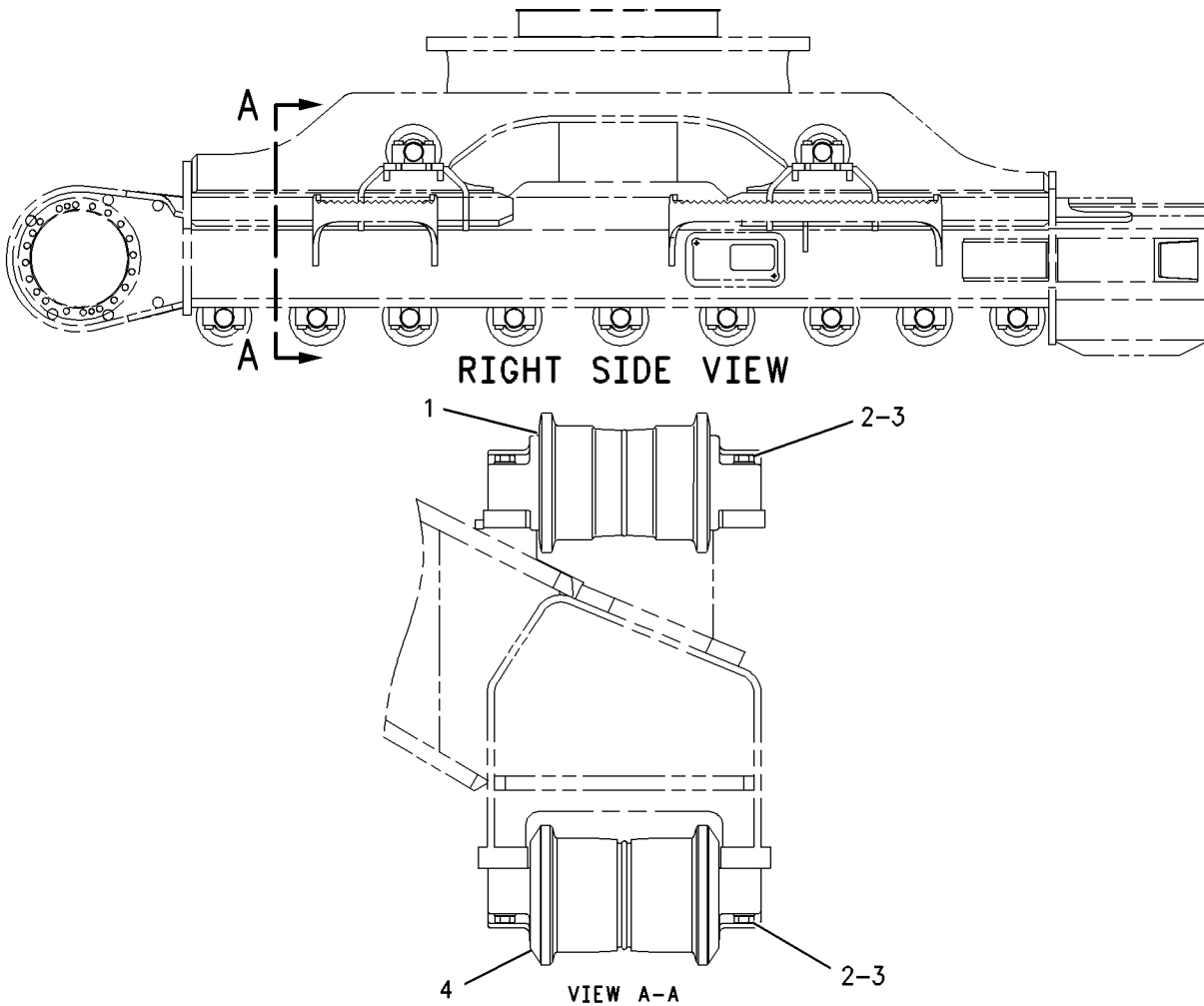
PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-4154, 4180

i01505931

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	163-4147	4	ROLLER GP-TRACK-SINGLE FLANGE	266
	2	1	8T-4123	80	WASHER-PLATED (22X35X3.5MM THK)	
M	3	1	7X-2565	80	BOLT (M20X2.5X100MM)	
Y	4	1	152-4125	16	ROLLER GP-TRACK-SINGLE FLANGE	264

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00793195

UNDERCARRIAGE

179-3070 ROLLER AR-TRACK & CARRIER

S/N: BPH1-UP

PART OF 186-3944 FRAME AR-UNDERCARRIAGE

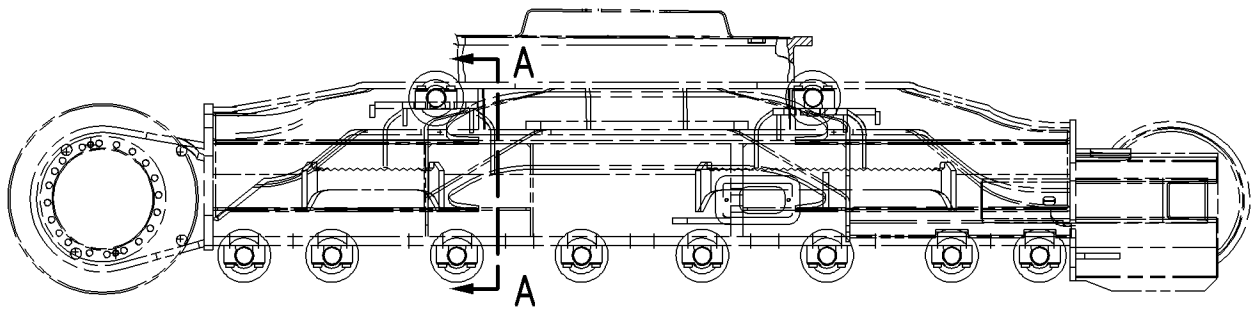
SMCS-4154, 4180

i01504093

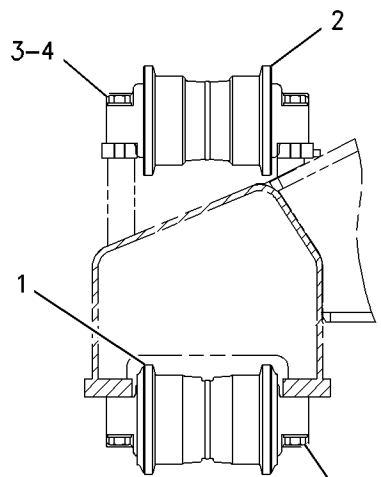
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	197-4161	16	ROLLER GP-TRACK-SINGLE FLANGE						268
Y	2	1	163-4145	4	ROLLER GP-TRACK-SINGLE FLANGE						265
M	3	1	7X-2565	80	BOLT (M20X2.5X100MM)						
	4	1	8T-4123	80	WASHER-PLATED (22X35X3.5MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



LEFT SIDE VIEW



SECTION A-A

GRAPHIC #1

g00797972

UNDERCARRIAGE

152-4125 ROLLER GP-TRACK-SINGLE FLANGE

S/N: CAM1-UP; CBY1-UP

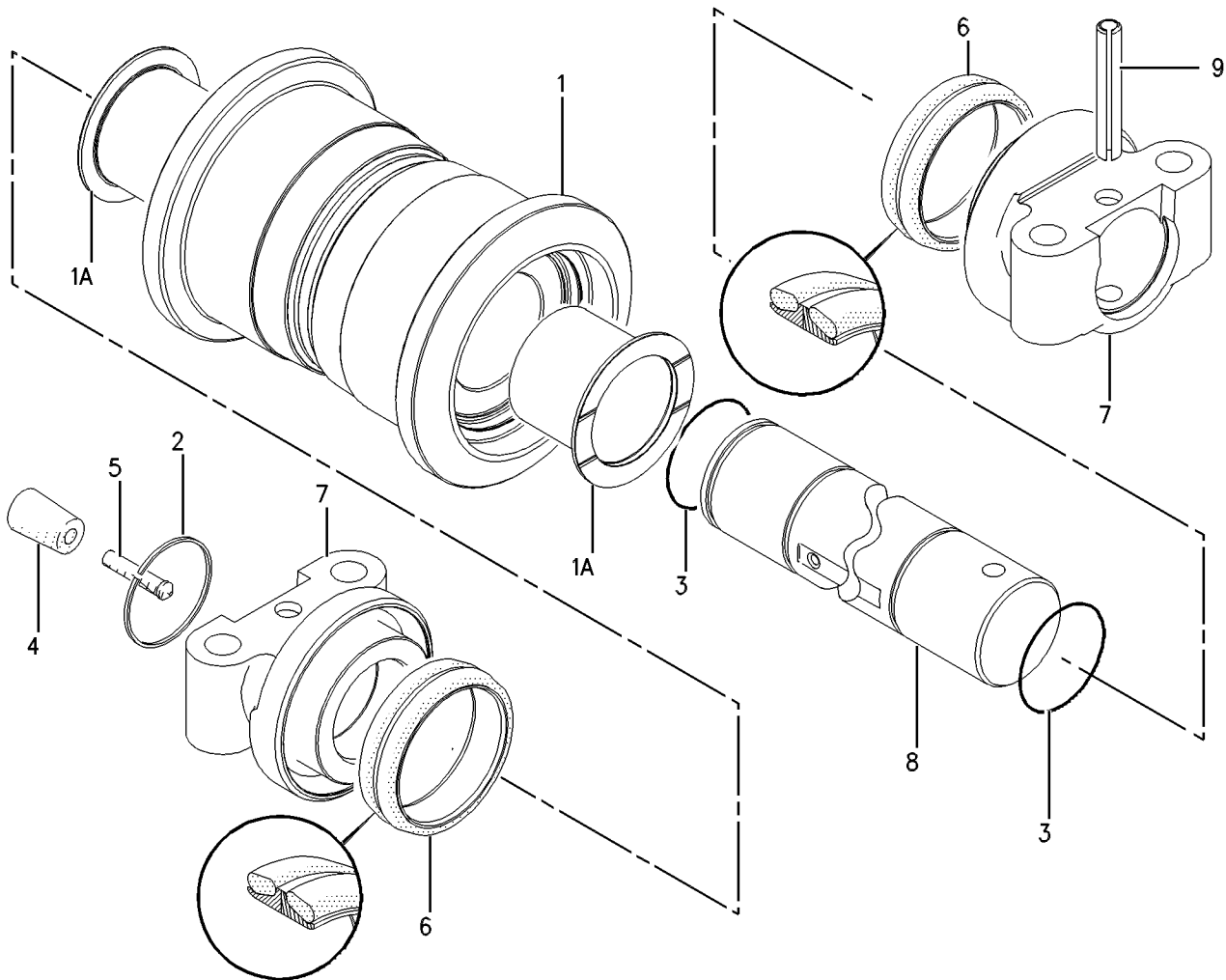
PART OF 176-4878 ROLLER AR-TRACK & CARRIER

SMCS-4180

i00985382

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	152-4138	1	ROLLER & BEARING AS						
	1A	1	6Y-1782	2	BEARING-TRACK ROLLER						
	2	1	158-8096	2	RING-RETAINING						
	3	1	8F-6711	2	SEAL-O-RING (56.74MM ID)						
	4	1	5G-2247	1	STOPPER-RUBBER						
	5	1	6Y-0473	1	PLUG						
R	6	1	9W-7225	2	SEAL GP-DUO-CONE						
	7	1	158-8086	2	COLLAR-TRACK ROLLER						
	8	1	158-8089	1	SHAFT-TRACK ROLLER						
	9	1	159-9526	1	DOWEL						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00532807

UNDERCARRIAGE

163-4145 ROLLER GP-TRACK-SINGLE FLANGE

S/N: BPH1-UP

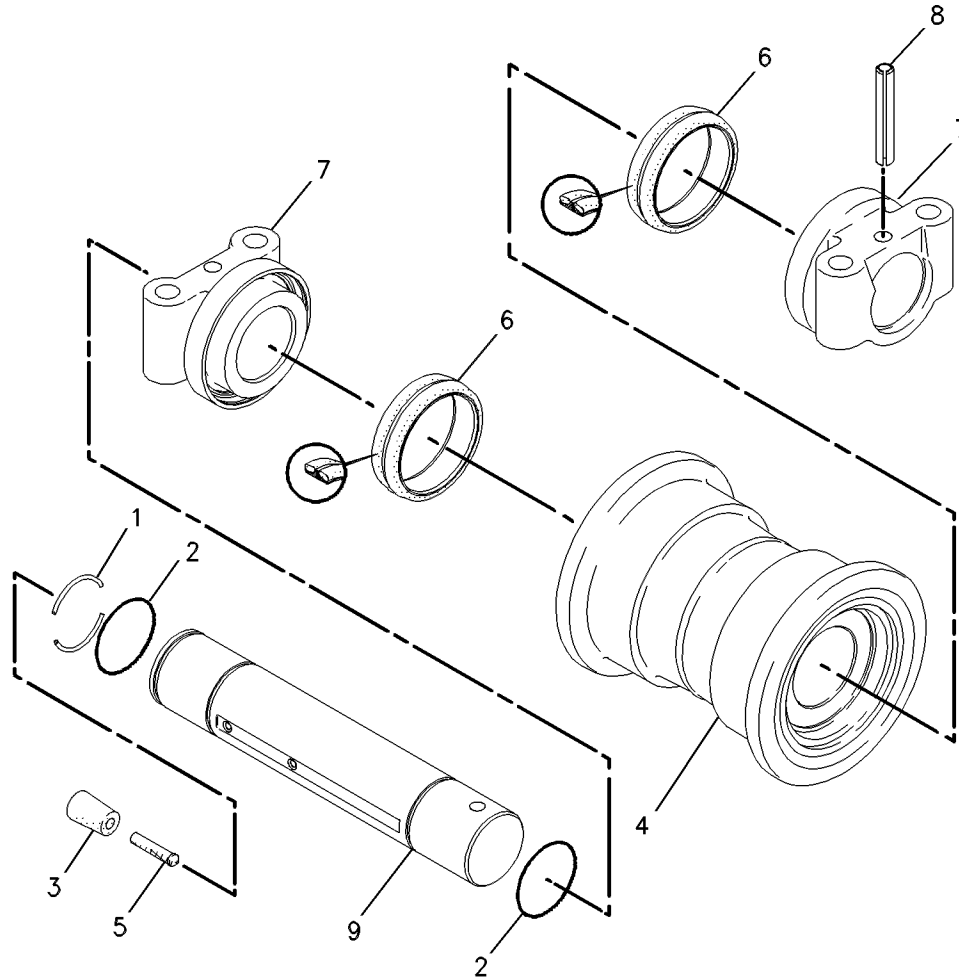
PART OF 179-3070 ROLLER AR-TRACK & CARRIER

SMCS-4180

i01029314

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	158-8096	2	RING-RETAINING						
	2	1	8F-6711	2	SEAL-O-RING (56.74MM ID)						
	3	1	5G-2247	1	STOPPER-RUBBER						
	4	1	6I-9398	1	ROLLER & BEARING AS						
		1	6I-9399	2	BEARING-TRACK ROLLER						
	5	1	6Y-0473	1	PLUG						
R	6	1	9W-7225	2	SEAL GP-DUO-CONE						
	7	1	158-8086	2	COLLAR-TRACK ROLLER						
	8	1	159-9526	1	DOWEL						
	9	1	163-7393	1	SHAFT-TRACK ROLLER						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00534216

UNDERCARRIAGE

163-4147 ROLLER GP-TRACK-SINGLE FLANGE

S/N: CAM1-UP; CBY1-UP

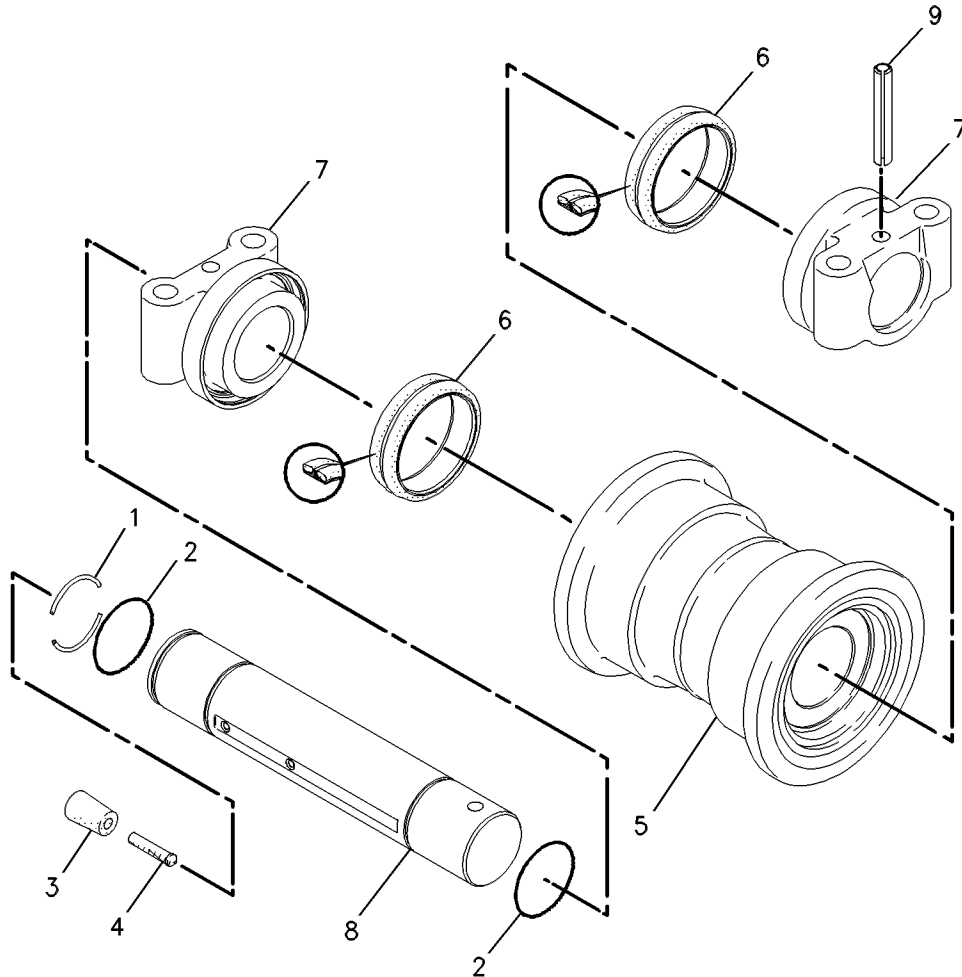
PART OF 176-4878 ROLLER AR-TRACK & CARRIER

SMCS-4180

i01029277

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	158-8096	2	RING-RETAINING						
	2	1	8F-6711	2	SEAL-O-RING (56.74MM ID)						
	3	1	5G-2247	1	STOPPER-RUBBER						
	4	1	6Y-0473	1	PLUG						
	5	1	6Y-1056	1	ROLLER & BEARING AS						
		1	6Y-1782	2	BEARING-TRACK ROLLER						
R	6	1	9W-7225	2	SEAL GP-DUO-CONE						
	7	1	158-8086	2	COLLAR-TRACK ROLLER						
	8	1	158-8089	1	SHAFT-TRACK ROLLER						
	9	1	159-9526	1	DOWEL						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00534486

MEMORANDA

UNDERCARRIAGE

197-4161 ROLLER GP-TRACK-SINGLE FLANGE

S/N: BPH1-UP

PART OF 179-3070 ROLLER AR-TRACK & CARRIER

SMCS-4180

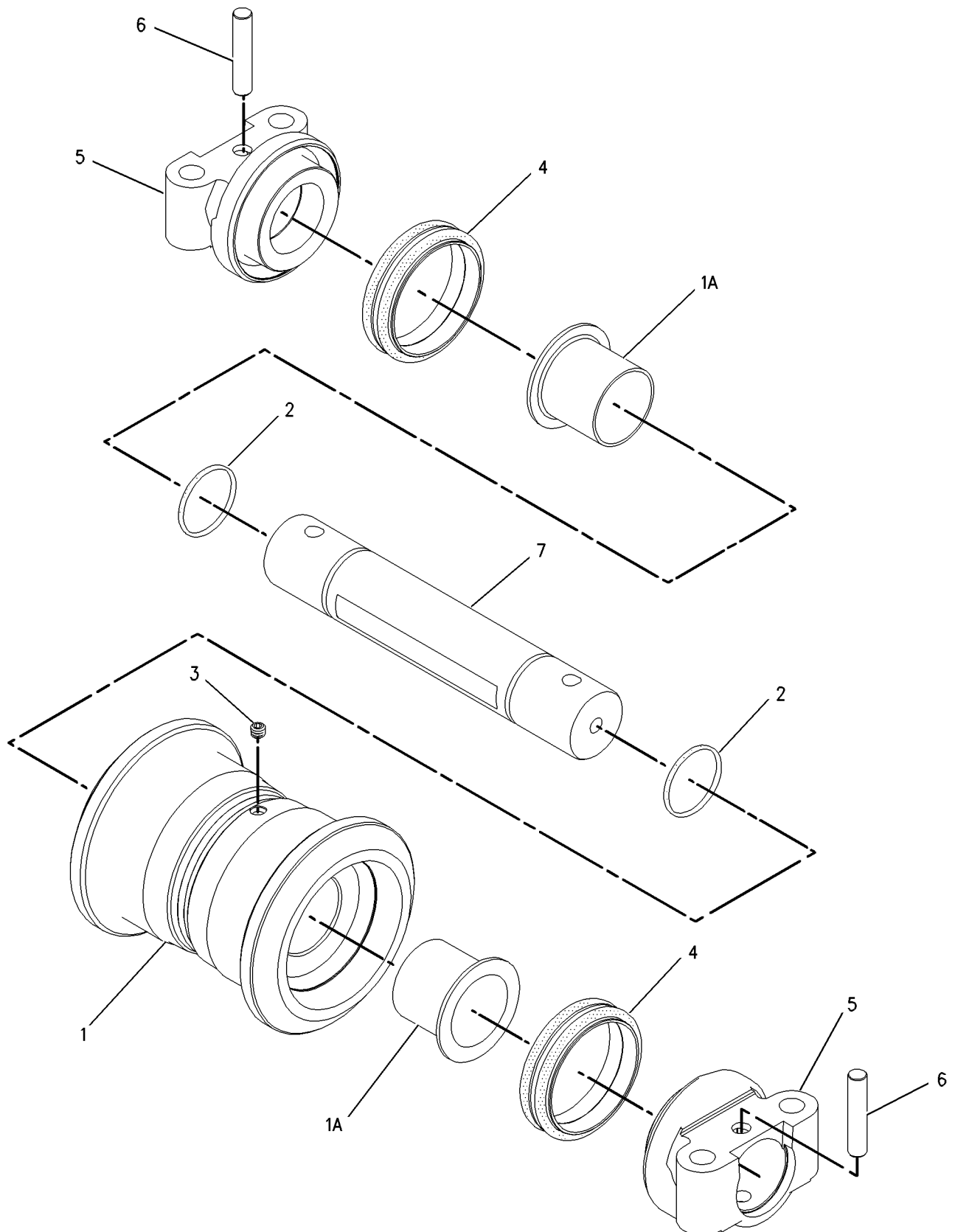
i01524008

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	205-3594	1	ROLLER & BEARING AS						
	1A	1	6I-9399	2	BEARING-TRACK ROLLER						
	2	1	8F-6711	2	SEAL-O-RING						
	3	1	9W-2146	1	PLUG (M12X1.5 THD)						
	4	1	9W-2201	2	SEAL GP-DUO-CONE						
	5	1	158-8086	2	COLLAR-TRACK ROLLER						
	6	1	159-9526	2	DOWEL						
	7	1	200-6432	1	SHAFT-TRACK ROLLER						

UNDERCARRIAGE

197-4161 ROLLER GP-TRACK-SINGLE FLANGE (contd.)

i01524008



GRAPHIC #1

g00797921

UNDERCARRIAGE

101-7875 SPRING GP-RECOIL

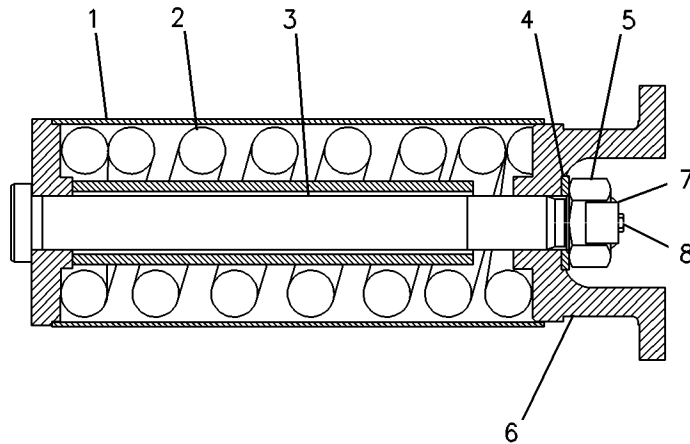
S/N: CAM1-UP; CBY1-UP

PART OF 115-6417 IDLER GP-FRONT

SMCS-4158

i00617223

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	101-7876	1	SUPPORT AS						
	2	1	101-7880	1	SPRING						
	3	1	101-7882	1	ROD						
	4	1	7Y-1459	1	WASHER (9MM THK)						
M	5	1	7Y-1460	1	NUT (M64X6.0THD)						
	6	1	101-7881	1	SUPPORT						
	7	1	7Y-1221	1	STRIP						
M	8	1	8T-0293	2	BOLT (M12X1.75X20MM)						
M-METRIC PART											



GRAPHIC #1

g00229205

UNDERCARRIAGE

194-1147 SPRING GP-RECOIL

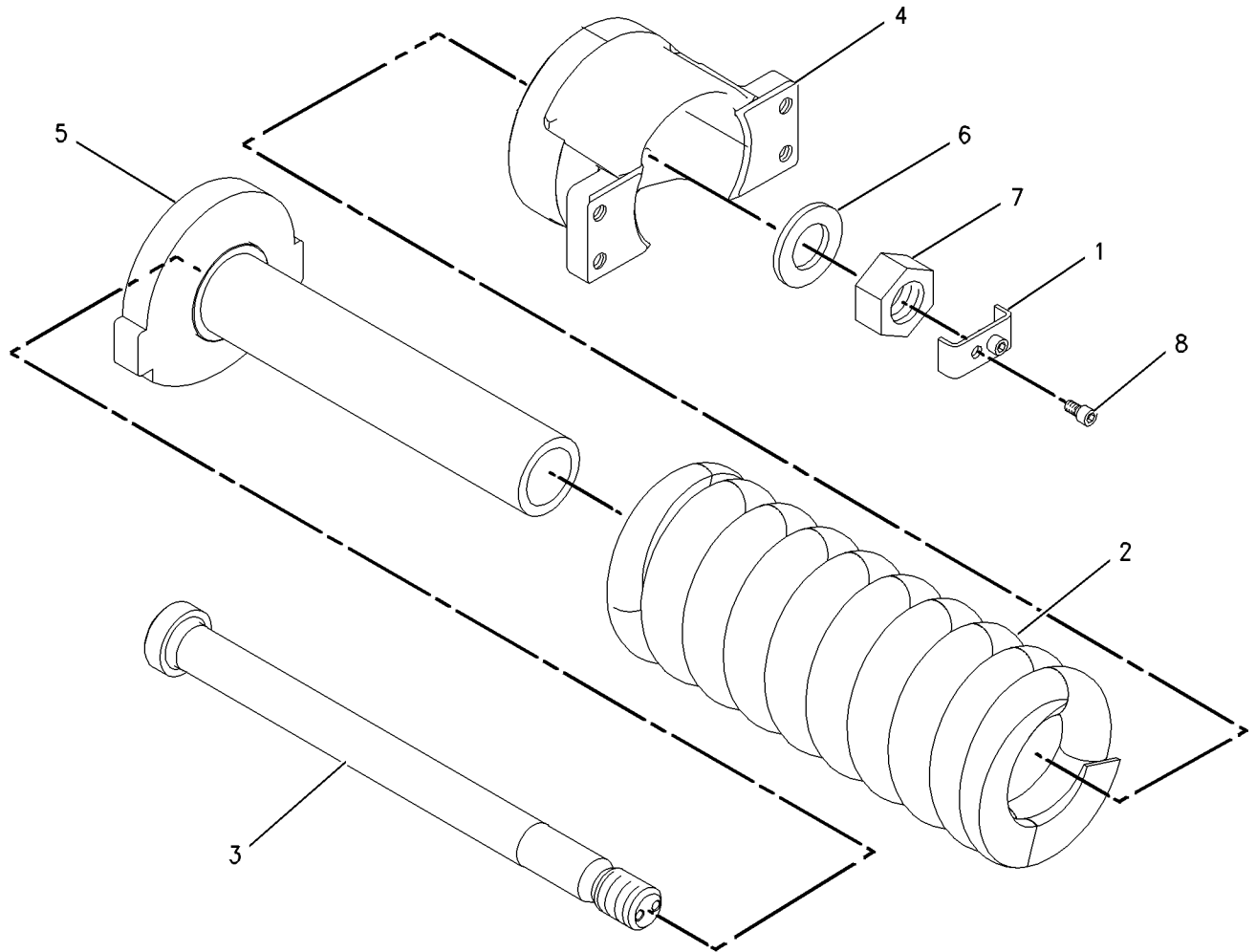
S/N: BPH1-UP

PART OF 194-1135 IDLER GP-FRONT

SMCS-4158

i01523440

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7Y-0735	1	STRIP						
	2	1	179-3004	1	SPRING						
	3	1	179-3005	1	ROD						
	4	1	194-1148	1	SUPPORT						
	5	1	194-1153	1	SUPPORT AS						
	6	1	7Y-0725	1	WASHER-HARD (52X92X8MM THK)						
M	7	1	8C-7328	1	NUT (M48X5 THD)						
M	8	1	8T-9080	2	BOLT-SOCKET HEAD (M12X1.75X20MM)						
M-METRIC PART											



GRAPHIC #1

g00797636

UNDERCARRIAGE

196-7618 TRACK GP

S/N: BPH1-UP

800MM (32 INCH) TRIPLE GROUSER SHOE. HEAVY DUTY, GREASE LUBRICATED TRACK
AN ATTACHMENT

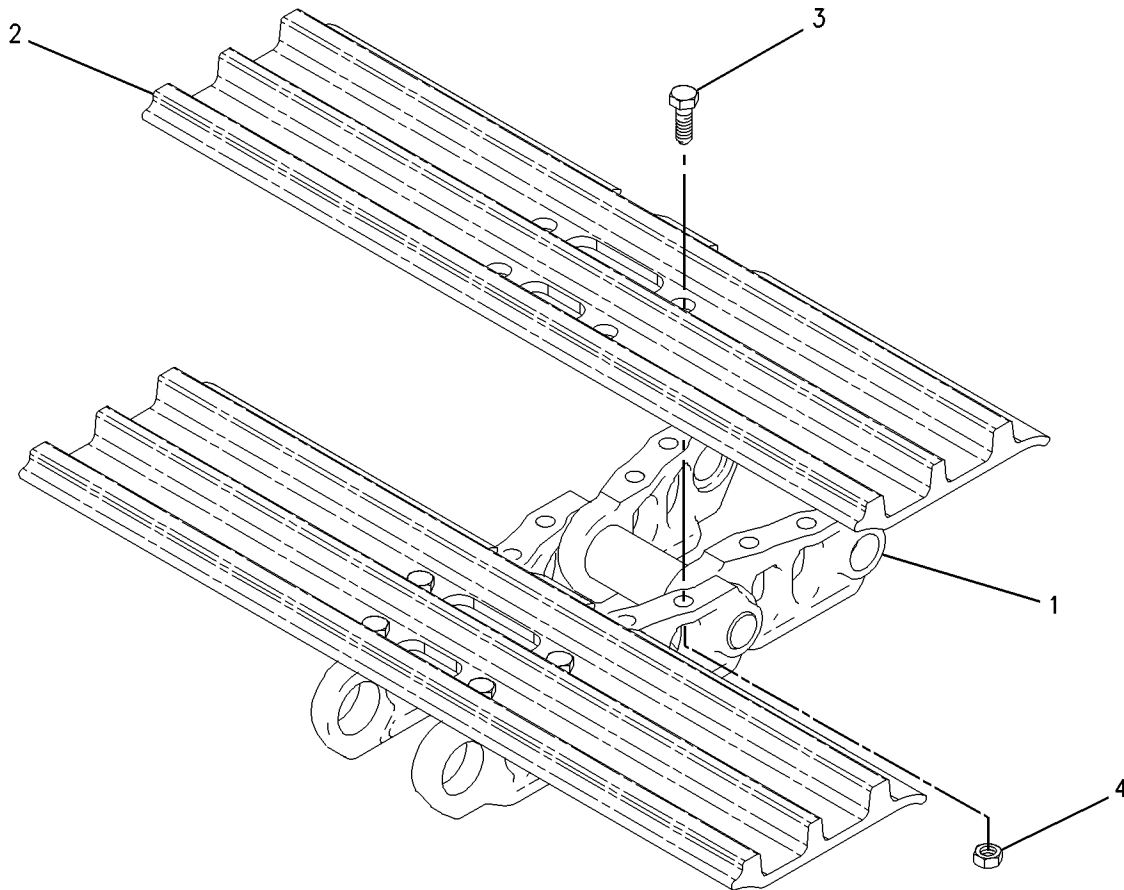
SMCS-4170

i01539510

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	195-9344	1	LINK AS-TRACK	260
	2	1	161-6304	51	SHOE-TRACK	
M	3	1	9W-3619	204	BOLT-TRACK (M20X1.5X55MM)	
M	4	1	9W-3361	204	NUT-TRACK (M20X1.5 THD)	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00791717

UNDERCARRIAGE

197-1435 TRACK GP

S/N: BPH1-UP

PART OF 186-3944 FRAME AR-UNDERCARRIAGE

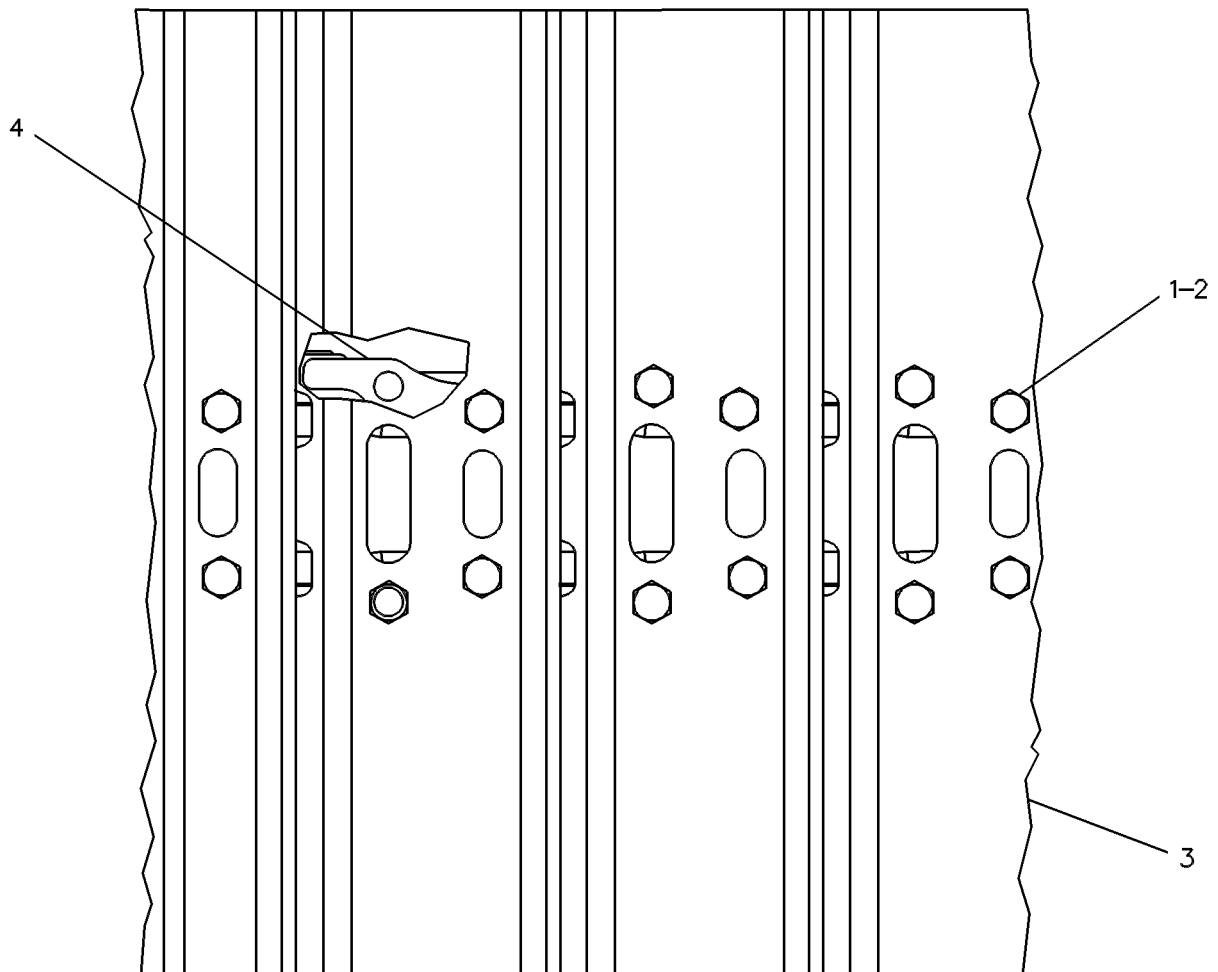
SMCS-4170

i01504360

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	9W-3361	204	NUT-TRACK (M20X1.5 THD)						
M	2	1	6Y-0846	204	BOLT-TRACK (M20X1.75X63MM)						
	3	1	106-0616	51	SHOE-TRACK						
Y	4	1	195-9344	1	LINK AS-TRACK						260

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00263475

UNDERCARRIAGE

197-1436 TRACK GP

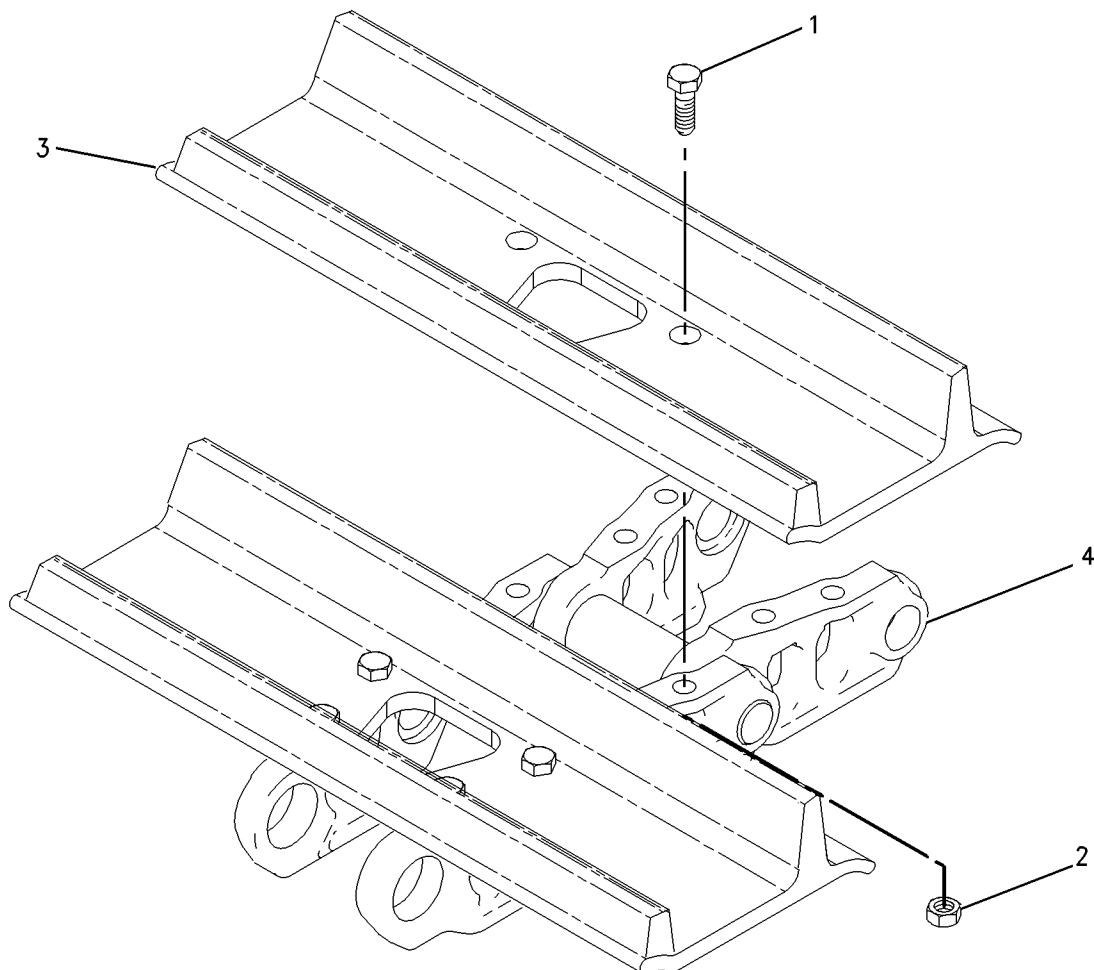
S/N: BPH1-UP

600MM (24 INCH) DOUBLE GROUSER SHOE. GREASE LUBRICATED TRACK
AN ATTACHMENT

SMCS-4170

i01539514

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6Y-0846	204	BOLT-TRACK (M20X1.75X63MM)						260
M	2	1	9W-3361	204	NUT-TRACK (M20X1.5 THD)						
	3	1	106-0615	51	SHOE-TRACK						
Y	4	1	195-9344	1	LINK AS-TRACK						
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00801008

UNDERCARRIAGE

199-2784 TRACK GP

S/N: CAM1-UP; CBY1-UP

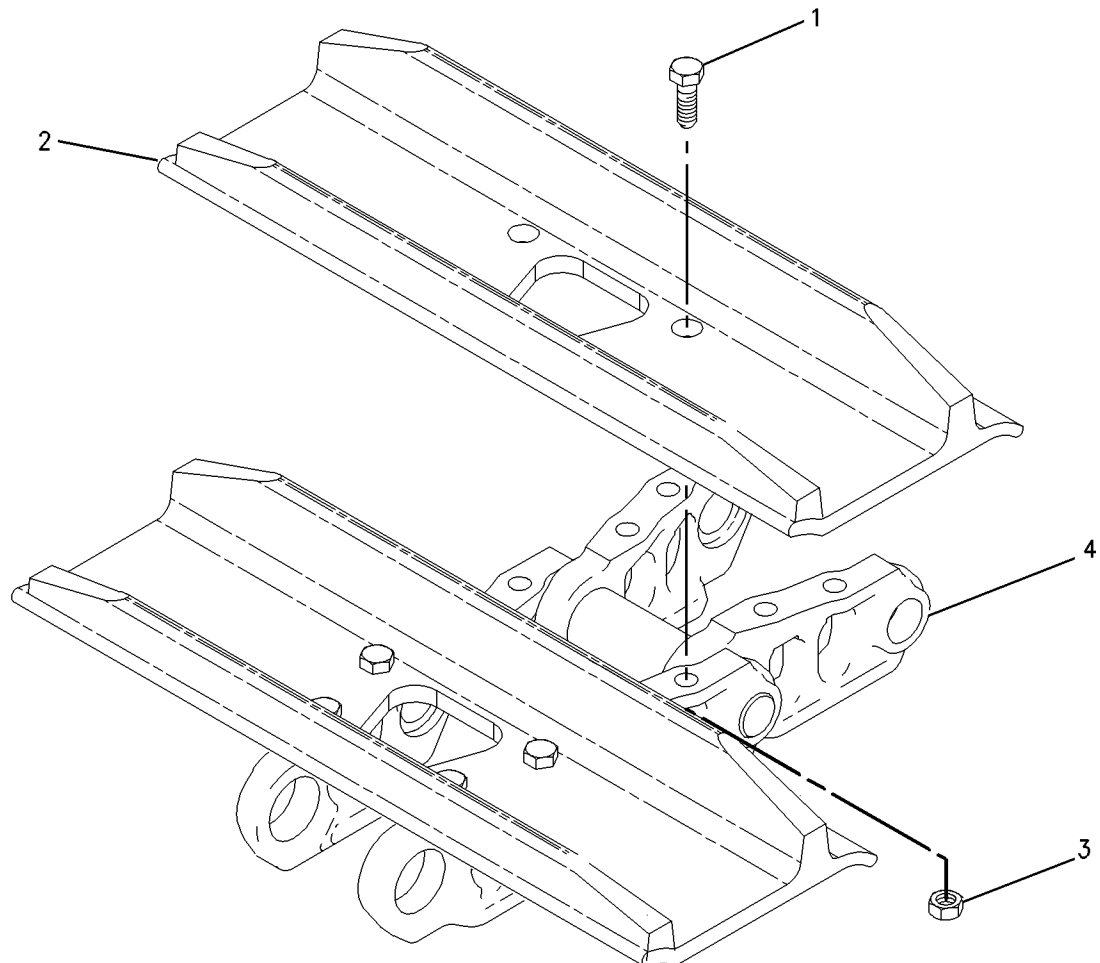
600MM (24 INCH) DOUBLE GROUSER SHOE. GREASE LUBRICATED TRACK
AN ATTACHMENT

SMCS-4170

i01539515

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6Y-0846	192	BOLT-TRACK (M20X1.75X63MM)						
	2	1	8E-8812	48	SHOE-TRACK						
M	3	1	9W-3361	192	NUT-TRACK (M20X1.5 THD)						
Y	4	1	201-9117	1	LINK AS-TRACK						
M-METRIC PART Y-SEPARATE ILLUSTRATION											

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00800992

UNDERCARRIAGE

199-2791 TRACK GP

S/N: CAM1-UP; CBY1-UP

800MM (32 INCH) TRIPLE GROUSER SHOE. EXTREME SERVICE, GREASE LUBRICATED TRACK
AN ATTACHMENT

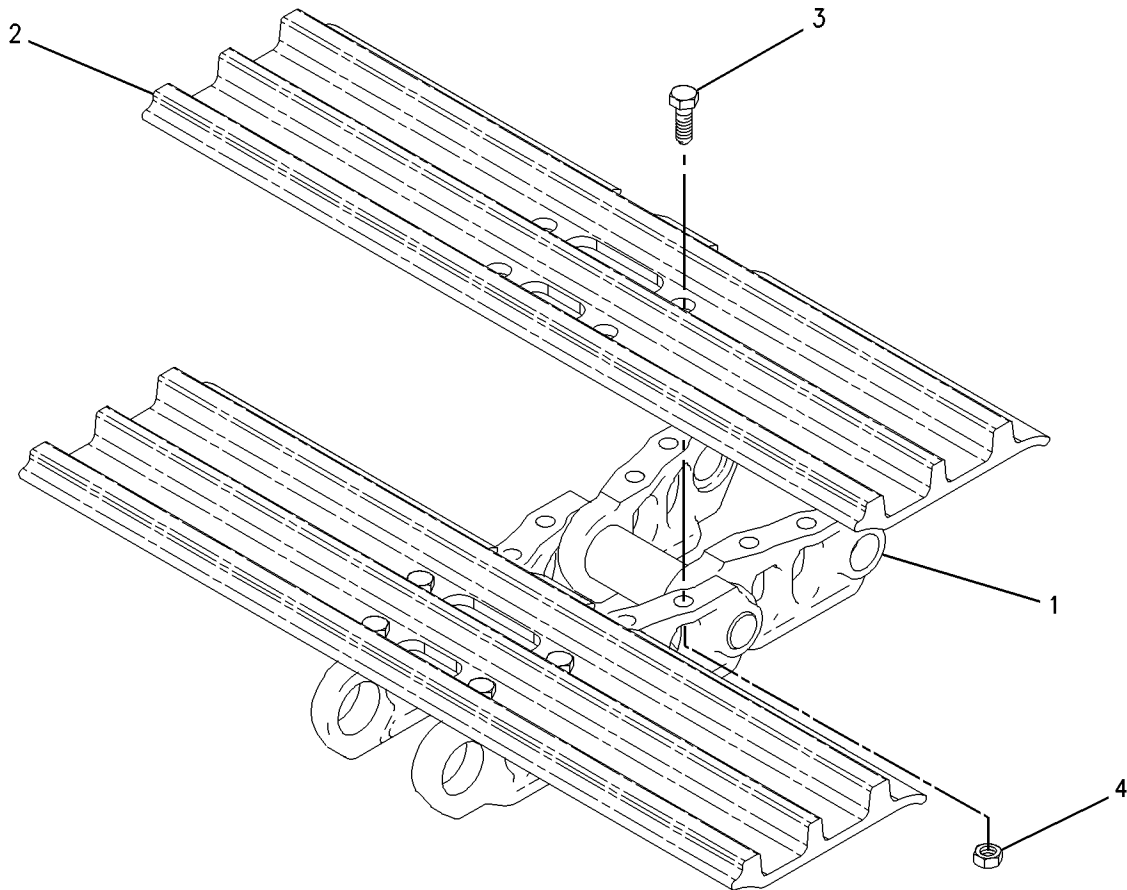
SMCS-4170

i01539516

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	201-9117	1	LINK AS-TRACK						261
	2	1	161-6305	48	SHOE-TRACK						
M	3	1	6Y-0846	192	BOLT-TRACK (M20X1.75X63MM)						
M	4	1	9W-3361	192	NUT-TRACK (M20X1.5 THD)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00791717

UNDERCARRIAGE

199-2795 TRACK GP

S/N: CAM1-UP; CBY1-UP

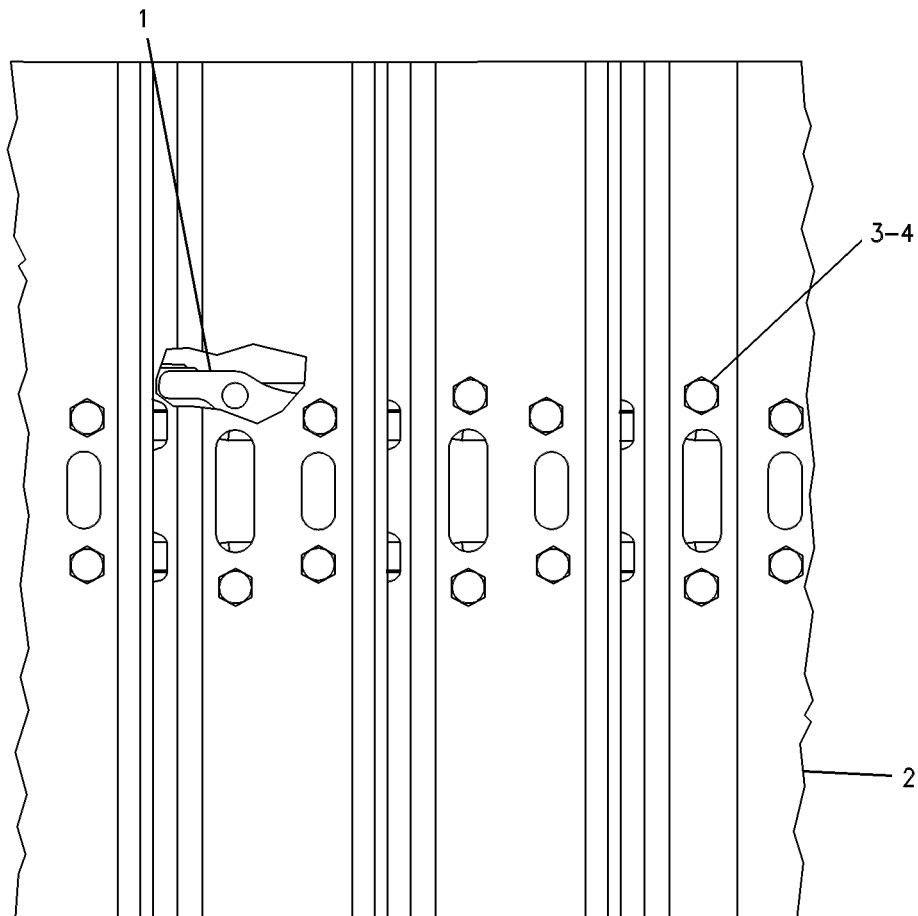
700MM (28 INCHES) DOUBLE GROUSER SHOE. GREASE LUBRICATED TRACK
PART OF 186-3945 FRAME AR-UNDERCARRIAGE

SMCS-4170

i01505928

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	201-9117	1	LINK AS-TRACK	261
	2	1	8E-8814	48	SHOE-TRACK	
M	3	1	6Y-0846	192	BOLT-TRACK (M20X1.75X63MM)	
M	4	1	9W-3361	192	NUT-TRACK (M20X1.5 THD)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00259142

HYDRAULIC SYSTEM

164-6981 ACCUMULATOR GP-HYDRAULIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7160, 187-7164, 206-9387 LINES GP-PILOT
ALSO AN ATTACHMENT

SMCS-5077

i01522663

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	087-4456	1	ACCUMULATOR GP-HYDRAULIC						
	3K-0360	1	SEAL-O-RING						

HYDRAULIC SYSTEM

194-1680 BREATHER GP

S/N: 55K8513-UP

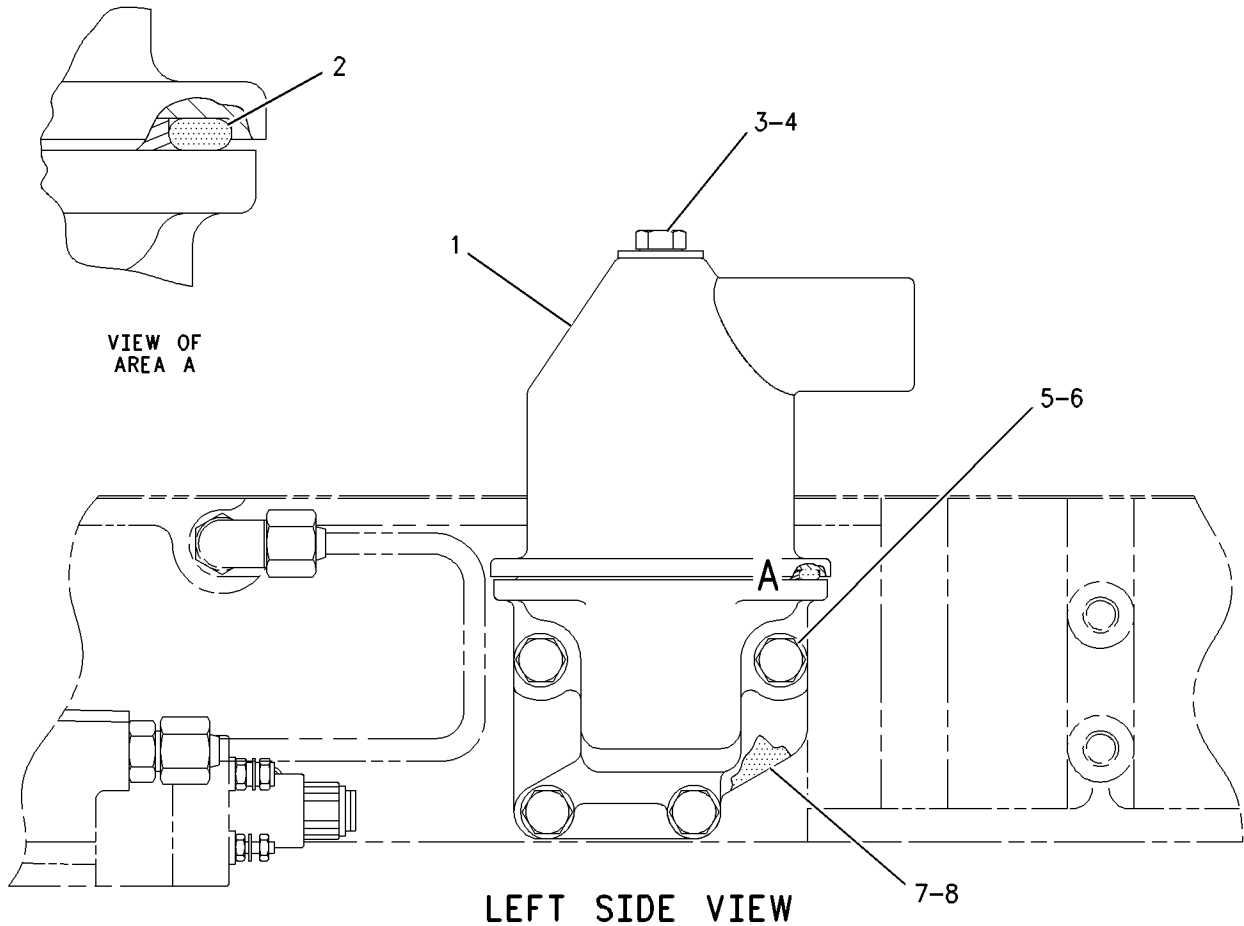
PART OF 168-8661 ENGINE AR-CORE

SMCS-5056

i01364377

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-9162	1	BREATHER AS						
	2	1	4L-9564	1	SEAL-O-RING (81.92MM ID)						
M	3	1	6V-3821	1	BOLT (M8X1.25X110MM)						
	4	1	9N-0869	1	WASHER-HARD (2MM THK)						
M	5	1	6V-5218	4	BOLT (M8X1.25X35MM)						
	6	1	9M-1974	4	WASHER-HARD (2MM THK)						
	7	1	4P-9936	1	BASE						
	8	1	7C-1159	1	GASKET						

M-METRIC PART



GRAPHIC #1

g00720554

HYDRAULIC SYSTEM

206-6046 CONTROL AR-AUXILIARY

S/N: BPH1-UP; CAM1-UP

THUMB CIRCUIT
AN ATTACHMENT

SMCS-5051

i01539517

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	206-5120	1	CONTROL GP-HYDRAULIC						284
	206-5148	1	FILM GP						
Y	187-6941	1	LINES GP-FRONT						390
Y	206-5051	1	LINES GP-PILOT						442
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

206-9388 CONTROL AR-AUXILIARY

S/N: BPH1-UP
GRAPPLE CIRCUIT
AN ATTACHMENT

SMCS-5051

i01548916

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	136-9234	1	FILM-INSTRUCTION (LOGGER CONTROLS)						
Y	206-9386	1	LINES GP-FRONT						396
Y	187-7166	1	LINES GP-PILOT						432
Y	206-9387	1	LINES GP-PILOT						446
Y	173-7988	1	VALVE & MTG GP-CONTROL						505
Y	205-9488	1	WIRING GP-WORK TOOL						194
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

206-9389 CONTROL AR-AUXILIARY

S/N: CAM1-UP
GRAPPLE CIRCUIT
AN ATTACHMENT

SMCS-5051

i01539739

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	136-9234	1	FILM-INSTRUCTION (LOGGER CONTROLS)						
Y	206-9386	1	LINES GP-FRONT						396
Y	187-7164	1	LINES GP-PILOT						424
Y	187-7166	1	LINES GP-PILOT						432
Y	173-7988	1	VALVE & MTG GP-CONTROL						505
Y	205-9488	1	WIRING GP-WORK TOOL						194
Y-SEPARATE ILLUSTRATION									

MEMORANDA

HYDRAULIC SYSTEM

206-5120 CONTROL GP-HYDRAULIC

S/N: BPH1-UP; CAM1-UP

PART OF 206-6046 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-5051, 5059, 5063

i01540127

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	121-1865	1	PEDAL - RUBBER	
	2	1	153-8753	1	PEDAL AS	
	4	1	179-5044	1	SUPPORT AS	
M		1	8T-8874	1	NUT-WELD (M5X0.8 THD)	
Y	5	1	185-0512	1	VALVE GP-PILOT	553
	6	1	5I-7090	1	CHAIN AS-BALL	
	7	1	8T-0114	1	PIN-SPRING	
M	8	1	095-0735	2	SCREW-MACHINE (M5X0.8X8MM)	
	9	1	128-2173	1	PIN	
M	10	1	7X-2536	2	BOLT (M8X1.25X14MM)	
M	11	1	8T-4136	2	BOLT (M10X1.5X25MM)	
M	12	1	8T-4137	1	BOLT (M10X1.5X20MM)	
	13	1	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)	
	14	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)	

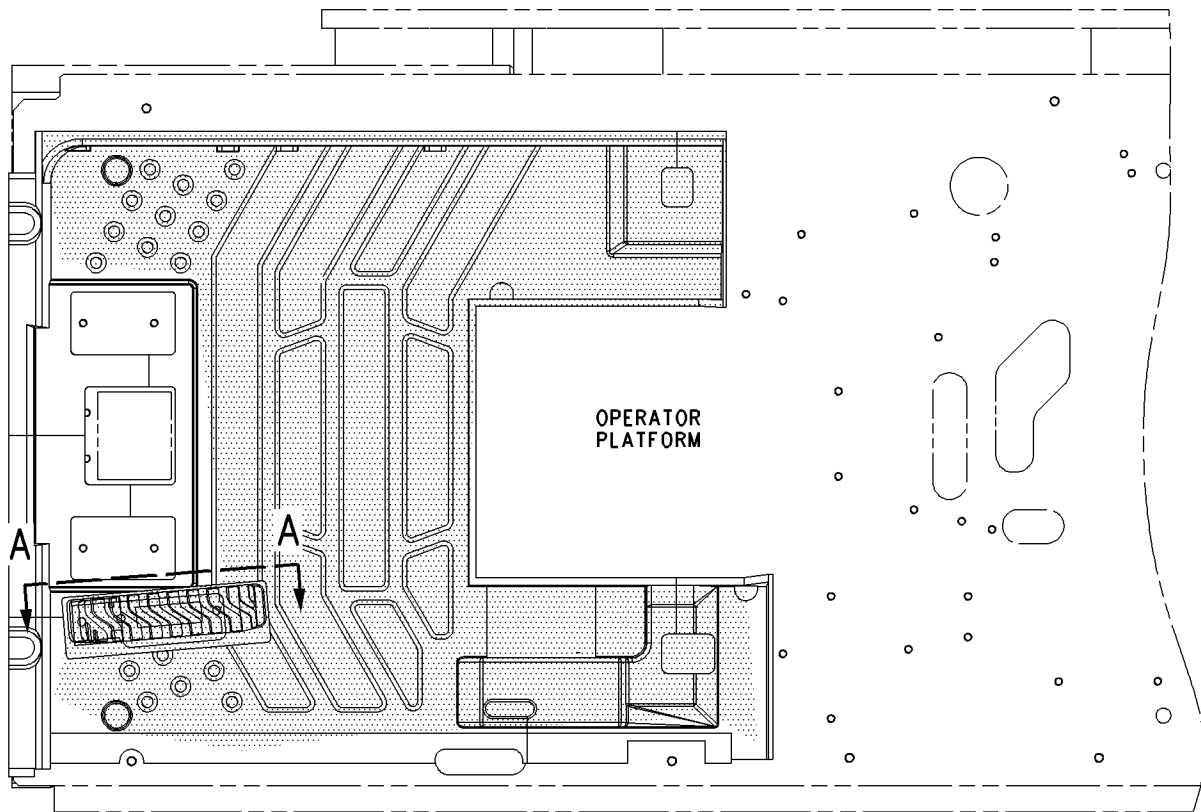
M-METRIC PART

Y-SEPARATE ILLUSTRATION

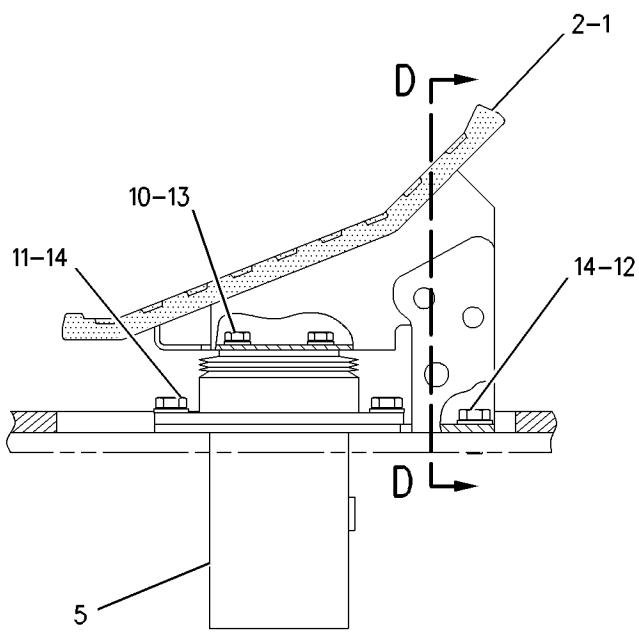
HYDRAULIC SYSTEM

206-5120 CONTROL GP-HYDRAULIC (contd.)

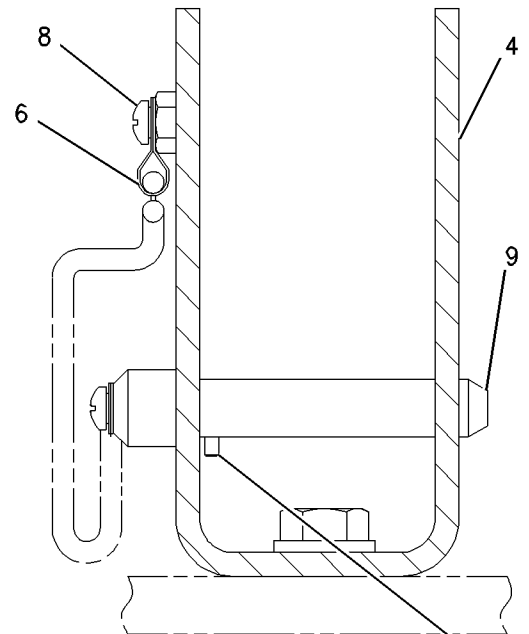
i01540127



← FWD TOP VIEW



SECTION A-A



SECTION D-D

GRAPHIC #1

g00801244

HYDRAULIC SYSTEM

196-3295 CONTROL GP-PILOT OPERATED HYD

S/N: CBY1-UP

PART OF 203-9143 OPERATOR AR

SMCS-5059

i01518153

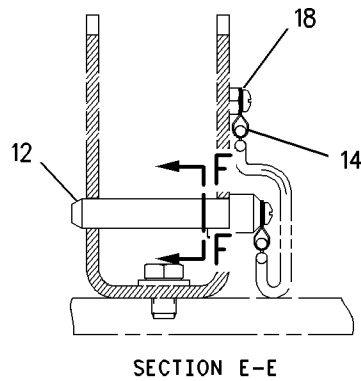
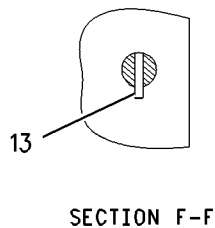
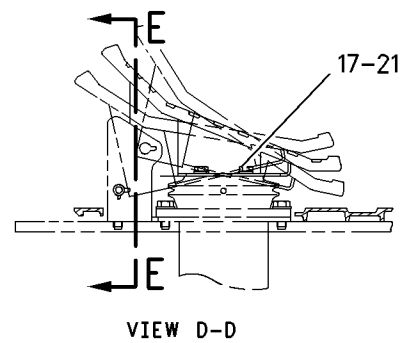
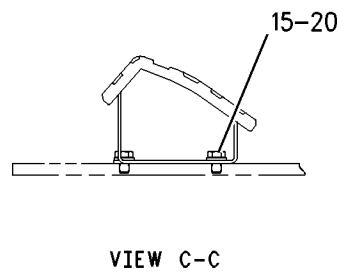
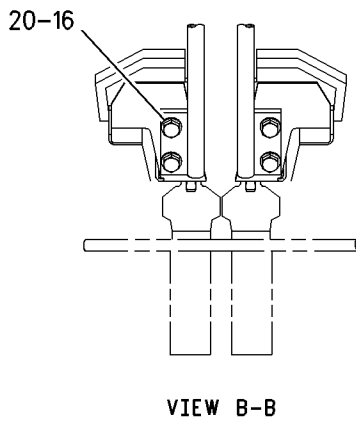
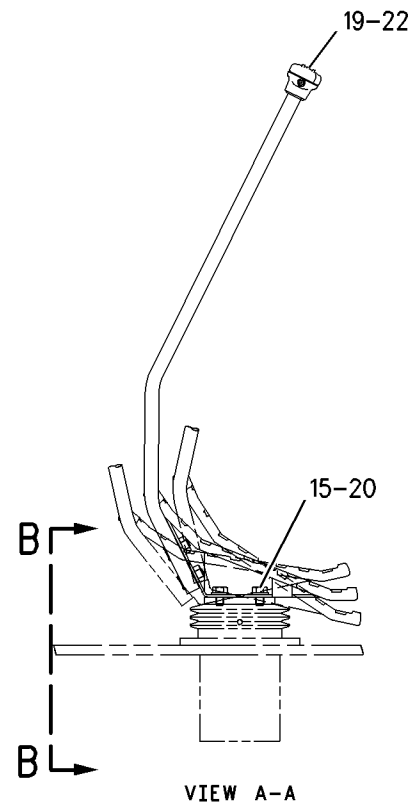
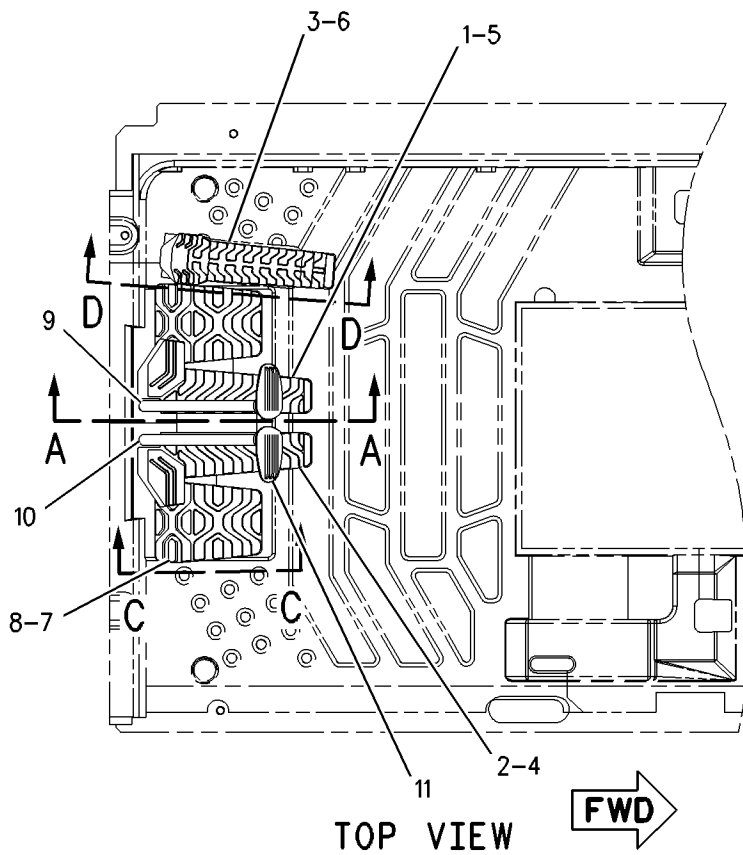
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	122-9608	1	PEDAL - RUBBER						
	2	1	122-9609	1	PEDAL - RUBBER						
	3	1	135-2274	1	PEDAL - RUBBER						
	4	1	117-6349	1	PEDAL AS-LH						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	5	1	117-6350	1	PEDAL AS-RH						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	6	1	164-0614	1	PEDAL AS						
	7	1	122-9610	2	STEP - RUBBER						
	8	1	117-6356	2	STEP AS						
	9	1	170-9498	1	LEVER AS-RH						
	10	1	170-9499	1	LEVER AS-LH						
	11	1	142-5546	2	KNOB						
	12	1	128-2173	1	PIN						
	13	1	8T-0114	1	PIN-SPRING						
	14	1	5I-7090	1	CHAIN AS-BALL						
M	15	1	8T-4191	8	BOLT (M10X1.5X16MM)						
M	16	1	8T-4136	4	BOLT (M10X1.5X25MM)						
M	17	1	8T-4200	2	BOLT (M8X1.25X16MM)						
M	18	1	095-0735	2	SCREW-MACHINE (M5X0.8X8MM)						
M	19	1	095-0728	2	SCREW-MACHINE (M4X0.7X12MM)						
	20	1	8T-4121	12	WASHER-HARD (11X21X2.5MM THK)						
	21	1	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)						
	22	1	096-6166	2	WASHER-HARD (4.5X9X1MM THK)						

M-METRIC PART

HYDRAULIC SYSTEM

196-3295 CONTROL GP-PILOT OPERATED HYD (contd.)

i01518153



GRAPHIC #1

g00793343

HYDRAULIC SYSTEM

170-9497 CONTROL GP-TRAVEL

S/N: BPH1-UP; CAM1-UP

TRAVEL PEDALS

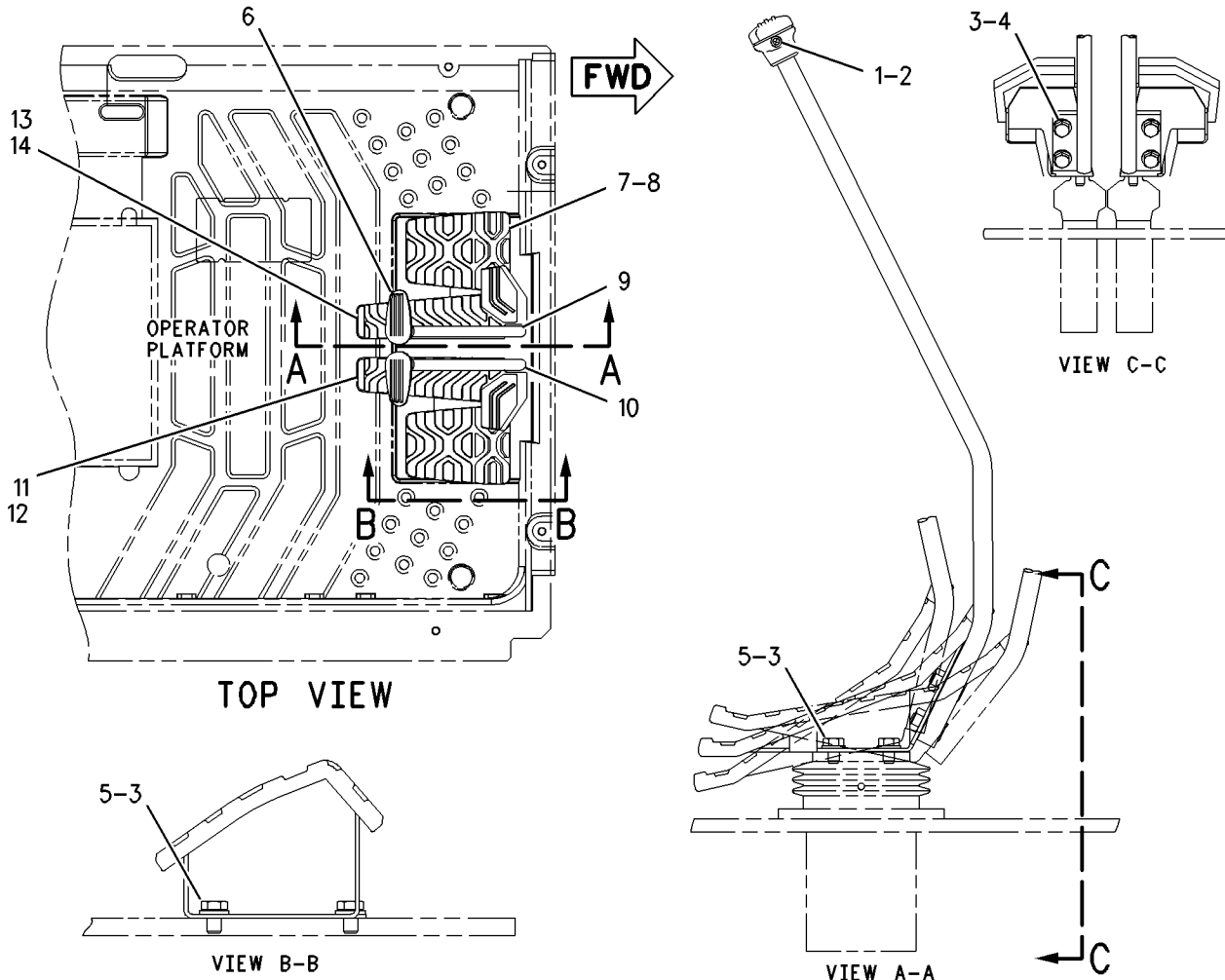
PART OF 192-2332 OPERATOR AR

SMCS-5462

i01526267

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	096-6166	2	WASHER-HARD (4.5X9X1MM THK)						
M	2	1	095-0728	2	SCREW-MACHINE (M4X0.7X12MM)						
	3	1	8T-4121	12	WASHER-HARD (11X21X2.5MM THK)						
M	4	1	8T-4136	4	BOLT (M10X1.5X25MM)						
M	5	1	8T-4191	8	BOLT (M10X1.5X16MM)						
	6	1	142-5546	2	KNOB						
	7	1	117-6356	2	STEP AS						
	8	1	122-9610	2	STEP-RUBBER						
	9	1	170-9499	1	LEVER AS-LH						
	10	1	170-9498	1	LEVER AS-RH						
	11	1	122-9608	1	PEDAL-RUBBER						
	12	1	117-6350	1	PEDAL AS-RH						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	13	1	122-9609	1	PEDAL-RUBBER						
	14	1	117-6349	1	PEDAL AS-LH						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						

M-METRIC PART



GRAPHIC #1

g00672963

HYDRAULIC SYSTEM

178-6446 COUPLING GP-FLEXIBLE

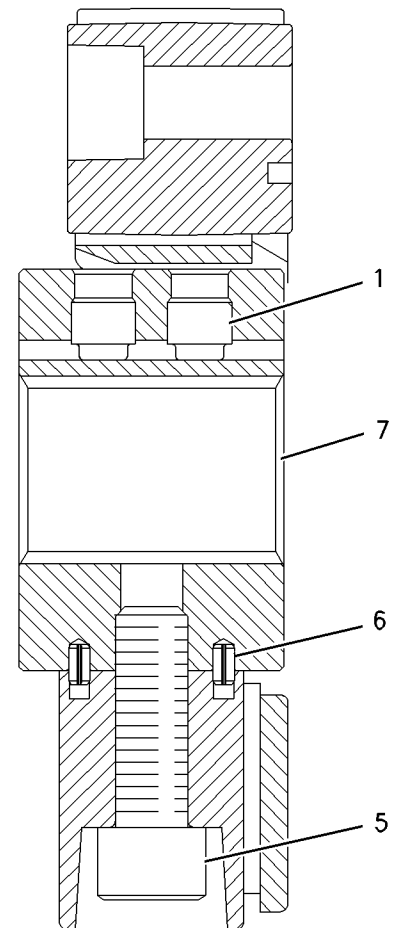
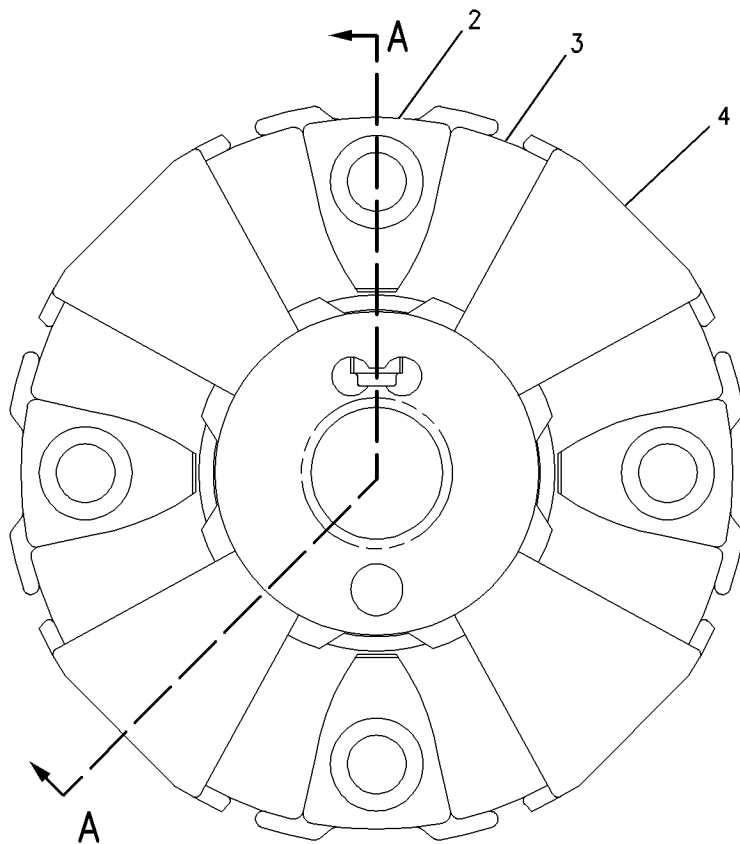
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 171-9104 COUPLING GP-PUMP

SMCS-3252

i01352711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	7Y-0466	2	SETSCREW-SOCKET						
	2	1	7Y-0464	4	INSERT-COUPLING						
	3	1	7Y-0463	1	ELEMENT						
	4	1	7Y-0465	4	INSERT-COUPLING						
M	5	1	7Y-0467	4	BOLT-SOCKET HEAD						
	6	1	7Y-0468	8	PIN-SPRING						
	7	1	178-6447	1	HUB						

M-METRIC PART



SECTION A-A

GRAPHIC #1

g00714217

HYDRAULIC SYSTEM

171-9104 COUPLING GP - PUMP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9103 PUMP & MTG GP-MAIN HYDRAULIC

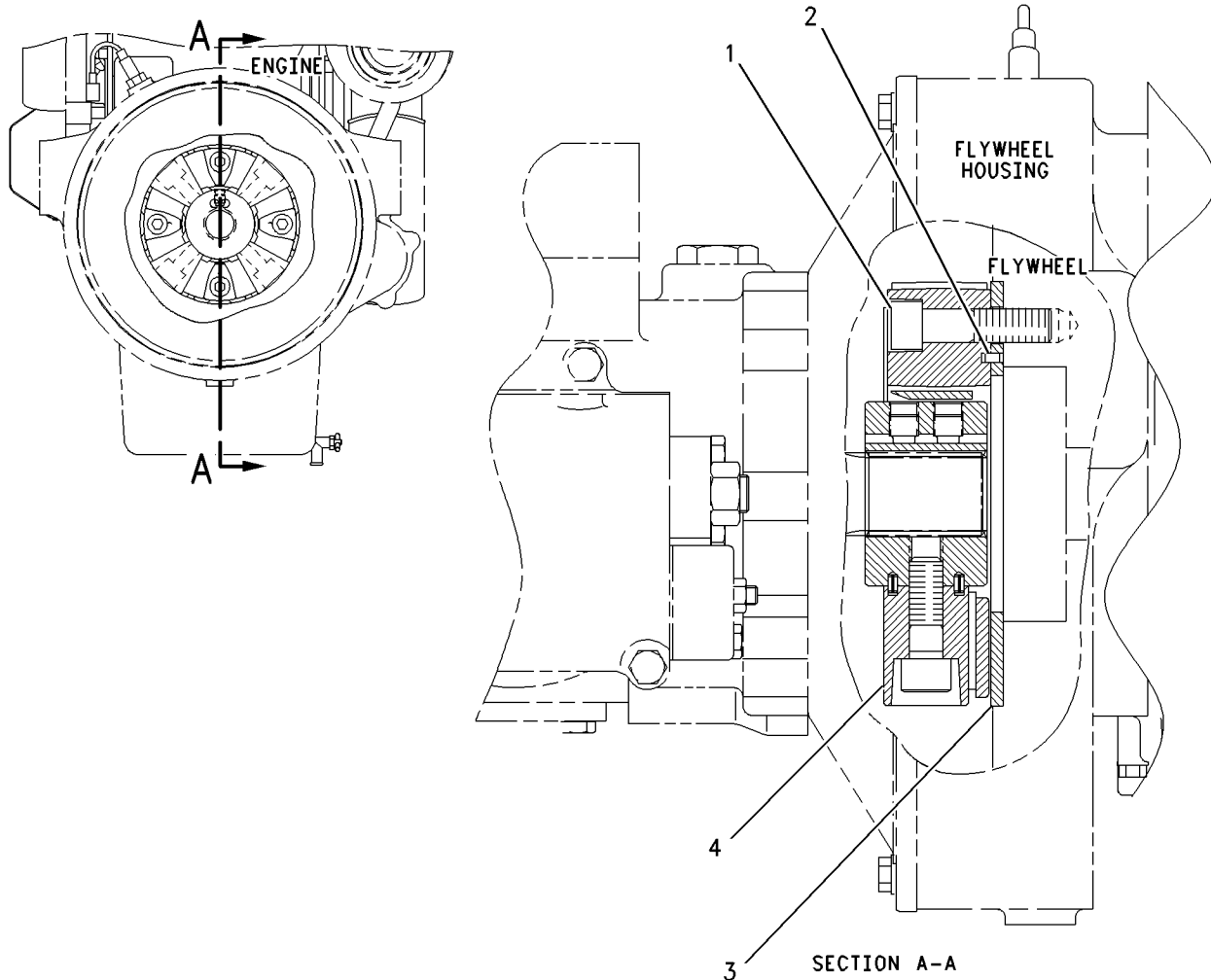
SMCS-5062

i01547087

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
M	1	1	7Y-0574	4	BOLT-SOCKET HEAD	
	2	1	7Y-0468	4	PIN-SPRING	
	3	1	7Y-0609	1	SPACER-COUPLING	
Y	4	1	178-6446	1	COUPLING GP-FLEXIBLE	289

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00699793

HYDRAULIC SYSTEM

177-7465 CYLINDER & LINES GP-BOOM

S/N: CBY1-UP

RH

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-5456

i01157707

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	177-1764	1	CYLINDER & SEAL GP-BOOM						301
Y	177-7467	1	LINES GP-BOOM CYLINDER						379
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

177-7466 CYLINDER & LINES GP-BOOM

S/N: CBY1-UP

LH

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-5456

i01157710

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	177-1764	1	CYLINDER & SEAL GP-BOOM						301
Y	177-7468	1	LINES GP-BOOM CYLINDER						380
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

192-2358 CYLINDER & LINES GP-BOOM

S/N: BPH1-UP; CAM1-UP

BOOM CYLINDERS

AN ATTACHMENT

SMCS-5456

i01539505

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	205-1182	1	CYLINDER & LINES GP-BOOM						294
Y	205-1183	1	CYLINDER & LINES GP-BOOM						295
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

205-1182 CYLINDER & LINES GP-BOOM

S/N: BPH1-UP; CAM1-UP

LEFT

PART OF 190-2320 BOOM AR-1 PIECE LONG, 192-2358 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01529918

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	204-4909	1	CYLINDER & SEAL GP-BOOM						302
Y	118-4117	1	LINES GP-BOOM CYLINDER (LH)						374
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

205-1183 CYLINDER & LINES GP-BOOM

S/N: BPH1-UP; CAM1-UP

RIGHT

PART OF 190-2320 BOOM AR-1 PIECE LONG, 192-2358 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01529925

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	204-4909	1	CYLINDER & SEAL GP-BOOM						302
Y	118-4119	1	LINES GP-BOOM CYLINDER (RH)						375
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

205-1184 CYLINDER & LINES GP-BOOM

S/N: BPH1-UP; CAM1-UP

PART OF 190-2320 BOOM AR-1 PIECE LONG
AN ATTACHMENT

SMCS-5456

i01529930

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	204-4911	1	CYLINDER & SEAL GP-BOOM						303
Y	118-4122	1	LINES GP-STICK CYLINDER						466
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

205 - 1185 CYLINDER & LINES GP - BUCKET

S/N: BPH1-UP; CAM1-UP

PART OF 176-2657 LINKAGE AR-BUCKET
AN ATTACHMENT

SMCS-5457

i01514008

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	204-4913	1	CYLINDER & SEAL GP-BUCKET						304
Y	118-4125	1	LINES GP-BUCKET CYLINDER						381
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

133-6817 CYLINDER & LINES GP-STICK

S/N: CBY1-UP

PART OF 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-5458

i00619347

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	133-6771	1	CYLINDER & SEAL GP						312
Y	133-6774	1	LINES GP-STICK CYLINDER						467
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

142-9928 CYLINDER & SEAL GP

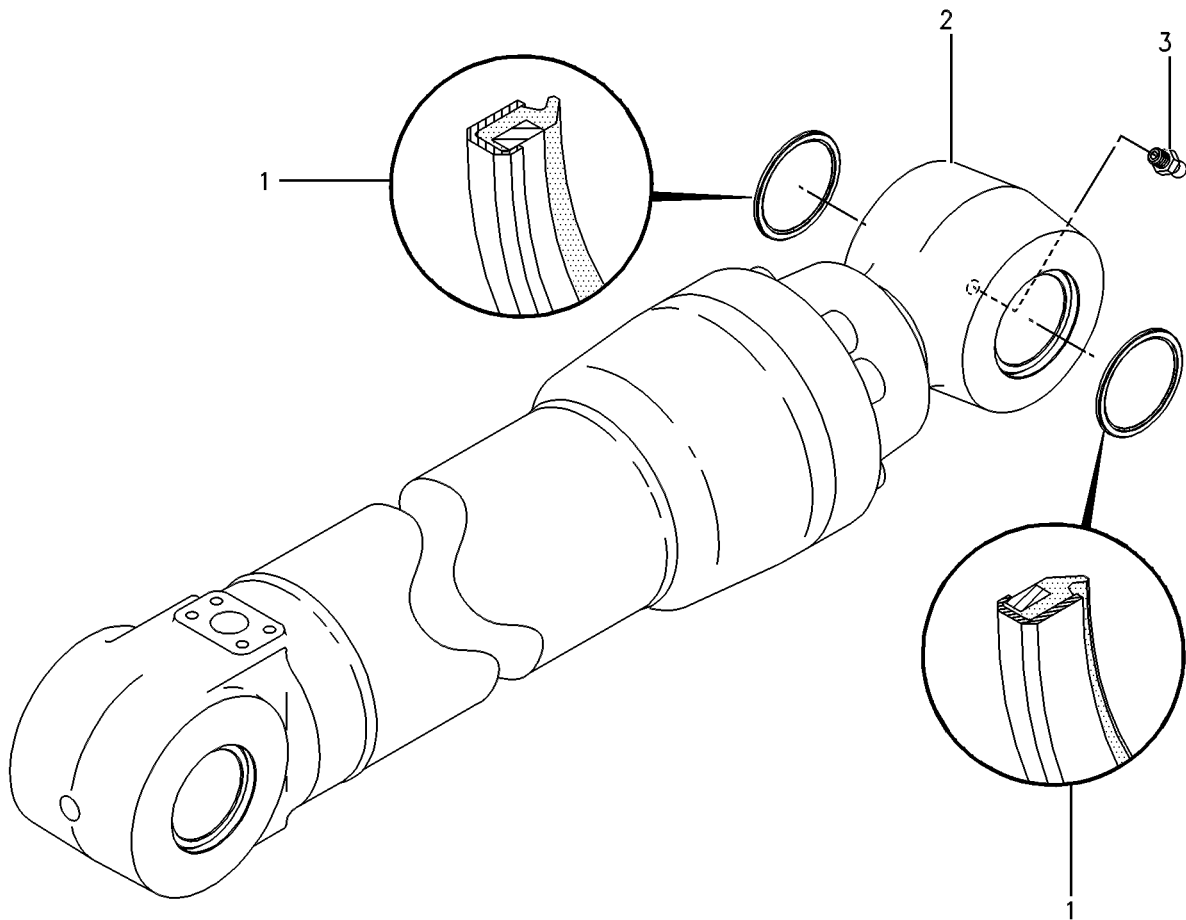
S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-7562

i00619222

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	143-3201	1	CYLINDER GP-STICK						322
	2	1	7X-4803	4	SEAL-LIP						
	3	1	3B-8489	1	FITTING-GREASE (1/8-27 THD)						
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00266224

HYDRAULIC SYSTEM

142-9929 CYLINDER & SEAL GP

S/N: CBY1-UP

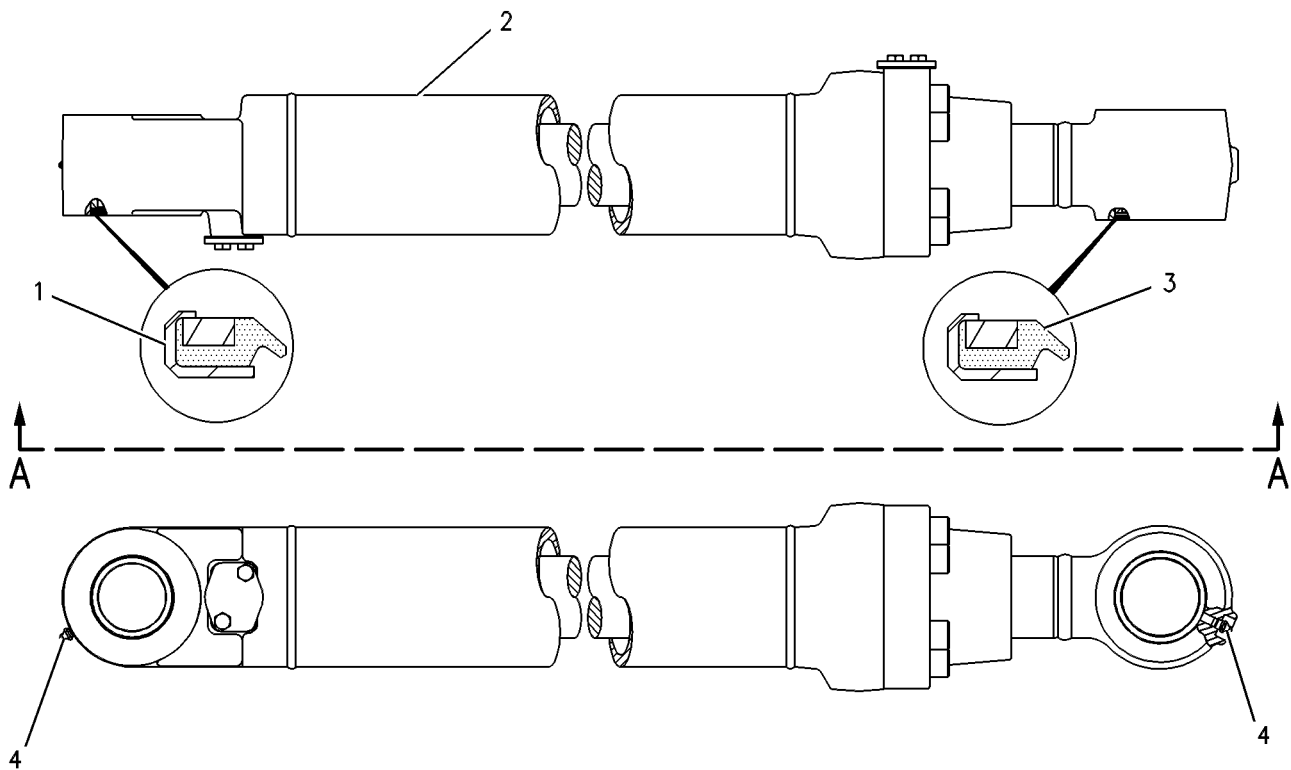
PART OF 192-2351 LINKAGE AR
AN ATTACHMENT

SMCS-7562

i00619227

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	093-1434	2	SEAL-LIP	
Y	2	1	143-3200	1	CYLINDER GP-BUCKET	314
	3	1	096-0854	2	SEAL-LIP	
	4	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)	

Y-SEPARATE ILLUSTRATION



VIEW A-A

GRAPHIC #1

g00259081

HYDRAULIC SYSTEM

177-1764 CYLINDER & SEAL GP-BOOM

S/N: CBY1-UP

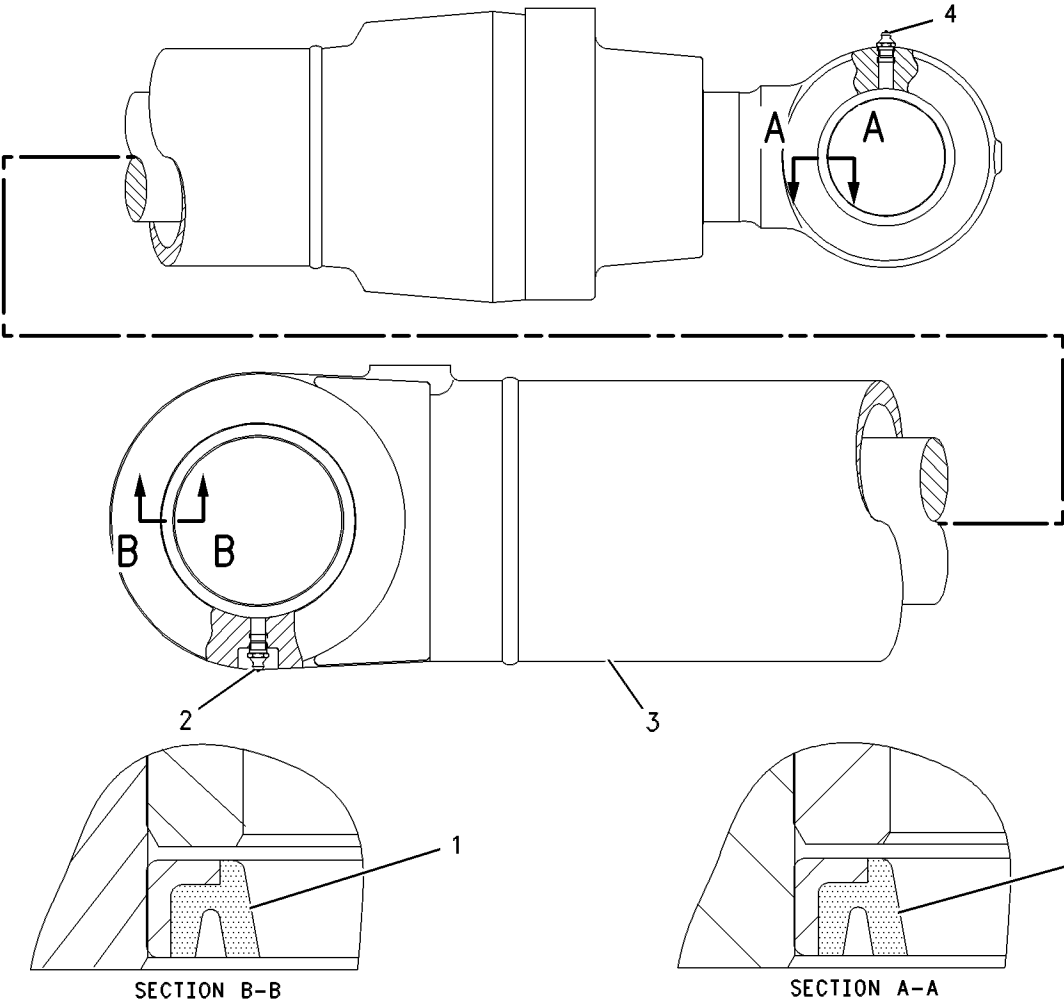
PART OF 177-7465, 177-7466 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01157699

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7X-4803	4	SEAL-LIP						
	2	1	3B-8489	1	FITTING-GREASE (1/8-27 THD)						
Y	3	1	175-6855	1	CYLINDER GP-BOOM						306
	4	1	3B-8490	1	FITTING-GREASE (1/4-18 THD)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00615692

HYDRAULIC SYSTEM

204-4909 CYLINDER & SEAL GP-BOOM

S/N: BPH1-UP; CAM1-UP

PART OF 205-1182, 205-1183 CYLINDER & LINES GP-BOOM, 176-4654 LINES GP-BOOM

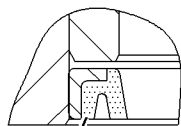
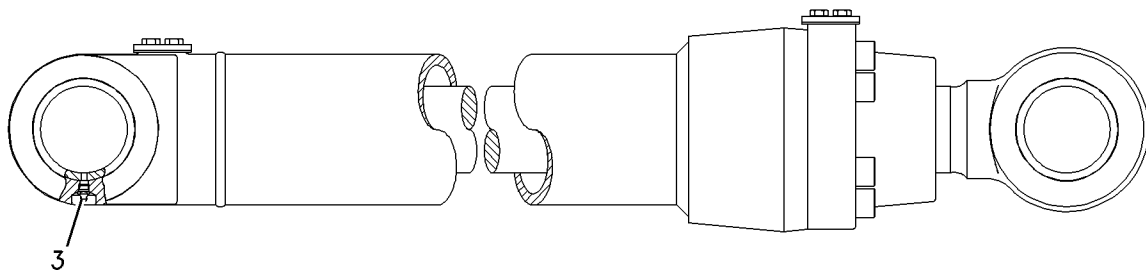
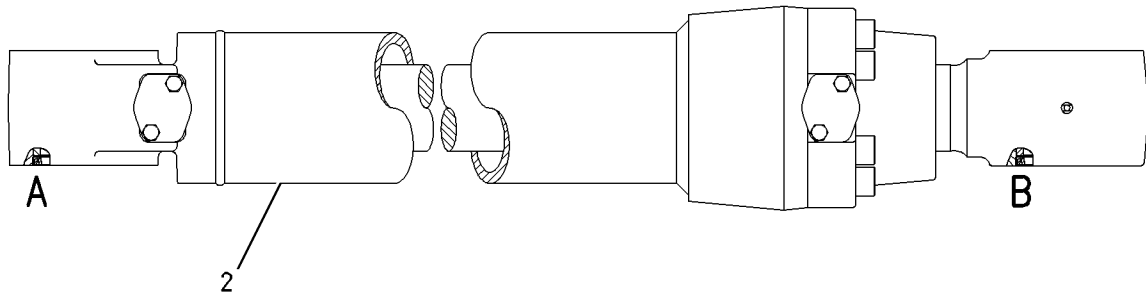
CYLINDER
AN ATTACHMENT

SMCS-5456

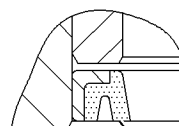
i01548921

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7X-4803	2	SEAL-LIP						
Y	2	1	204-4910	1	CYLINDER GP-BOOM						308
	3	1	3B-8489	1	FITTING-GREASE						
	4	1	166-1495	2	SEAL-LIP TYPE						

Y-SEPARATE ILLUSTRATION



1
VIEW OF AREA A



4
VIEW OF AREA B

GRAPHIC #1

g00796526

HYDRAULIC SYSTEM

204-4911 CYLINDER & SEAL GP-BOOM

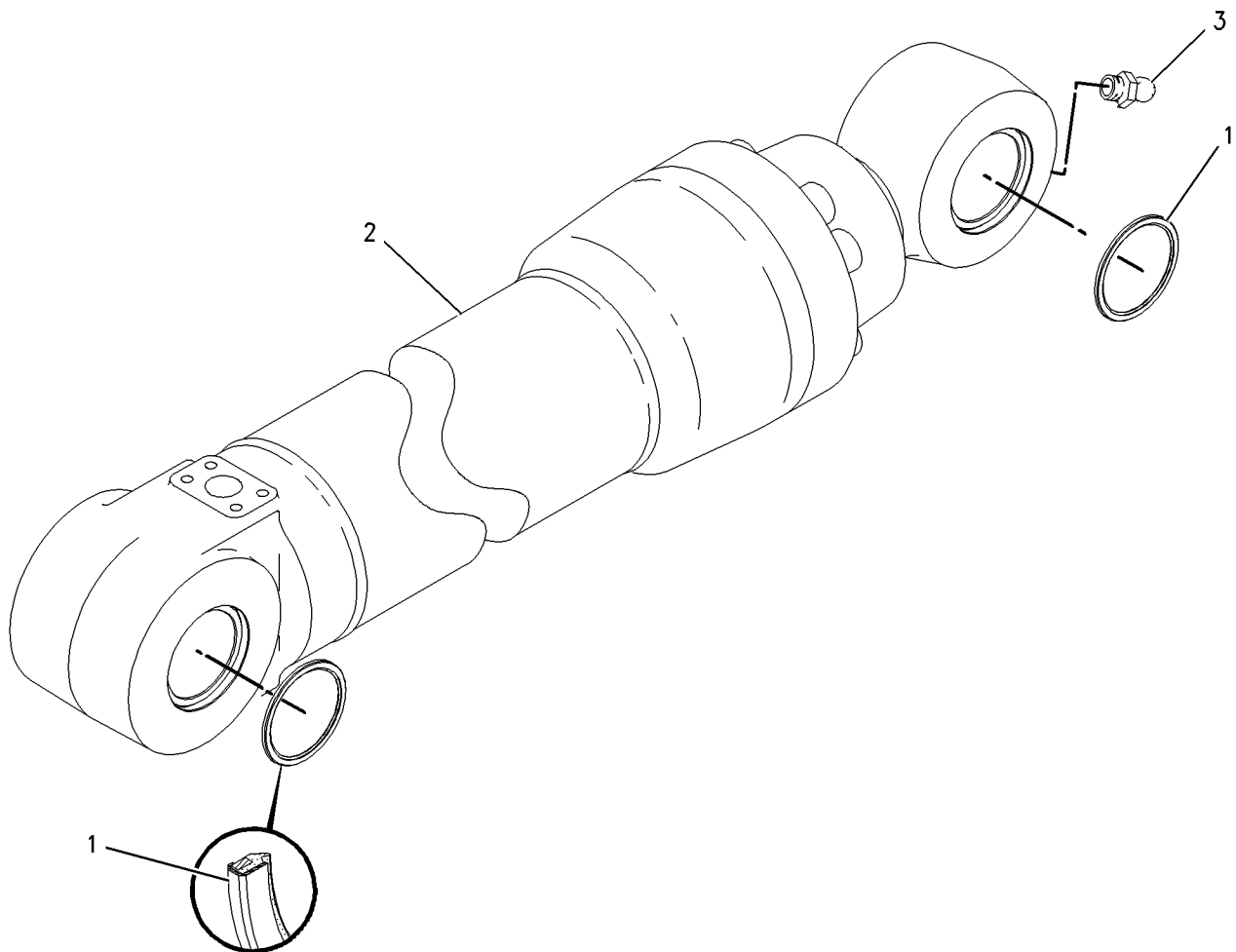
S/N: BPH1-UP; CAM1-UP

PART OF 205-1184 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01547091

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	096-0854	4	SEAL-LIP TYPE						
Y	2	1	204-4912	1	CYLINDER GP-STICK						324
	3	1	3B-8489	1	FITTING-GREASE						
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00798478

HYDRAULIC SYSTEM

204-4913 CYLINDER & SEAL GP-BUCKET

S/N: BPH1-UP; CAM1-UP

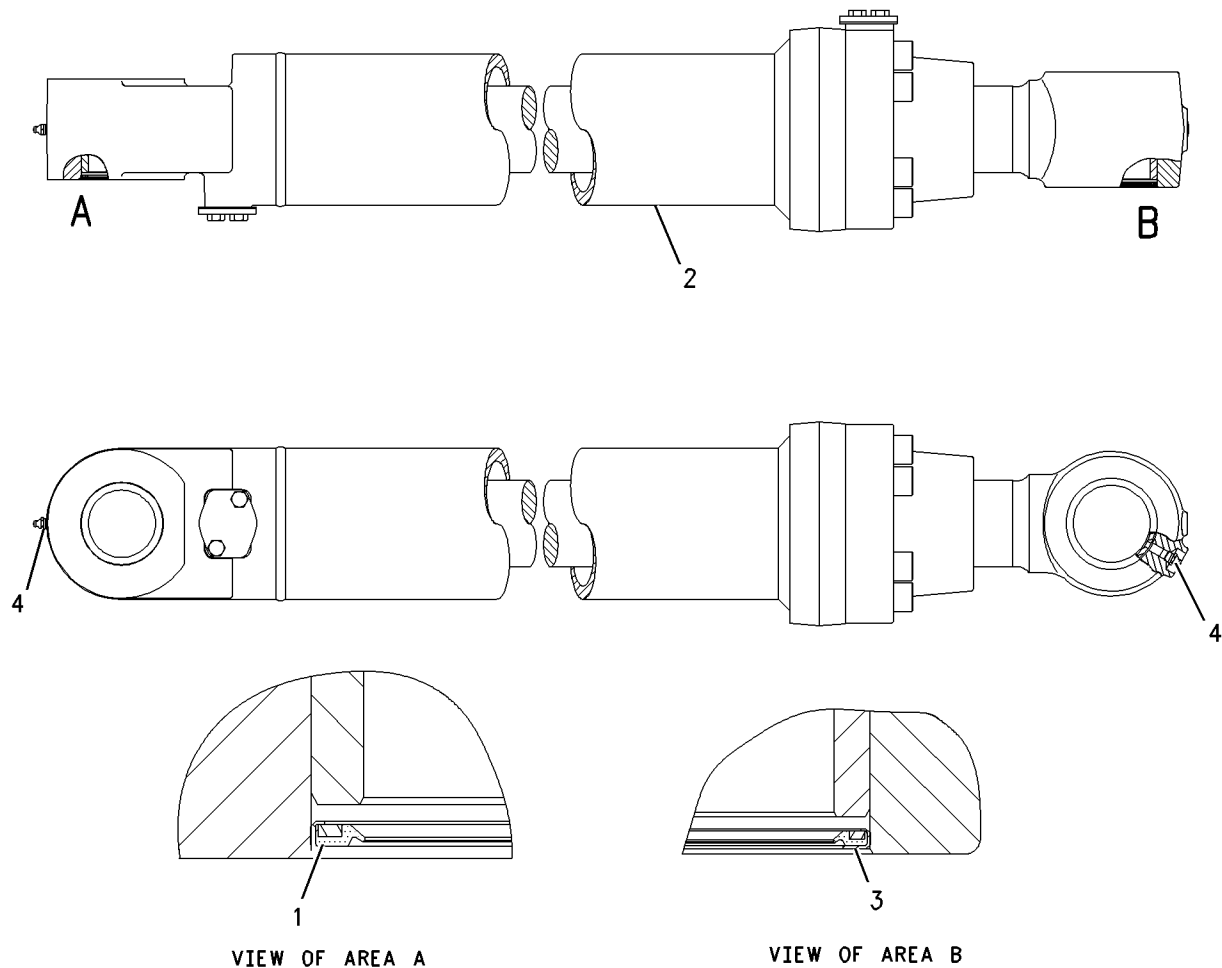
PART OF 205-1185 CYLINDER & LINES GP-BUCKET
AN ATTACHMENT

SMCS-5457

i01547095

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	093-1434	2	SEAL-LIP						
Y	2	1	204-4914	1	CYLINDER GP-BUCKET						316
	3	1	096-0854	2	SEAL-LIP TYPE						
	4	1	3B-8489	2	FITTING-GREASE						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00796483

MEMORANDA

HYDRAULIC SYSTEM

175-6855 CYLINDER GP - BOOM

S/N: CBY1-UP

140MM (5.51 INCHES) BORE X 1185MM (46.65) STROKE

PART OF 177-1764 CYLINDER & SEAL GP-BOOM

AN ATTACHMENT

SMCS-5456

i01157738

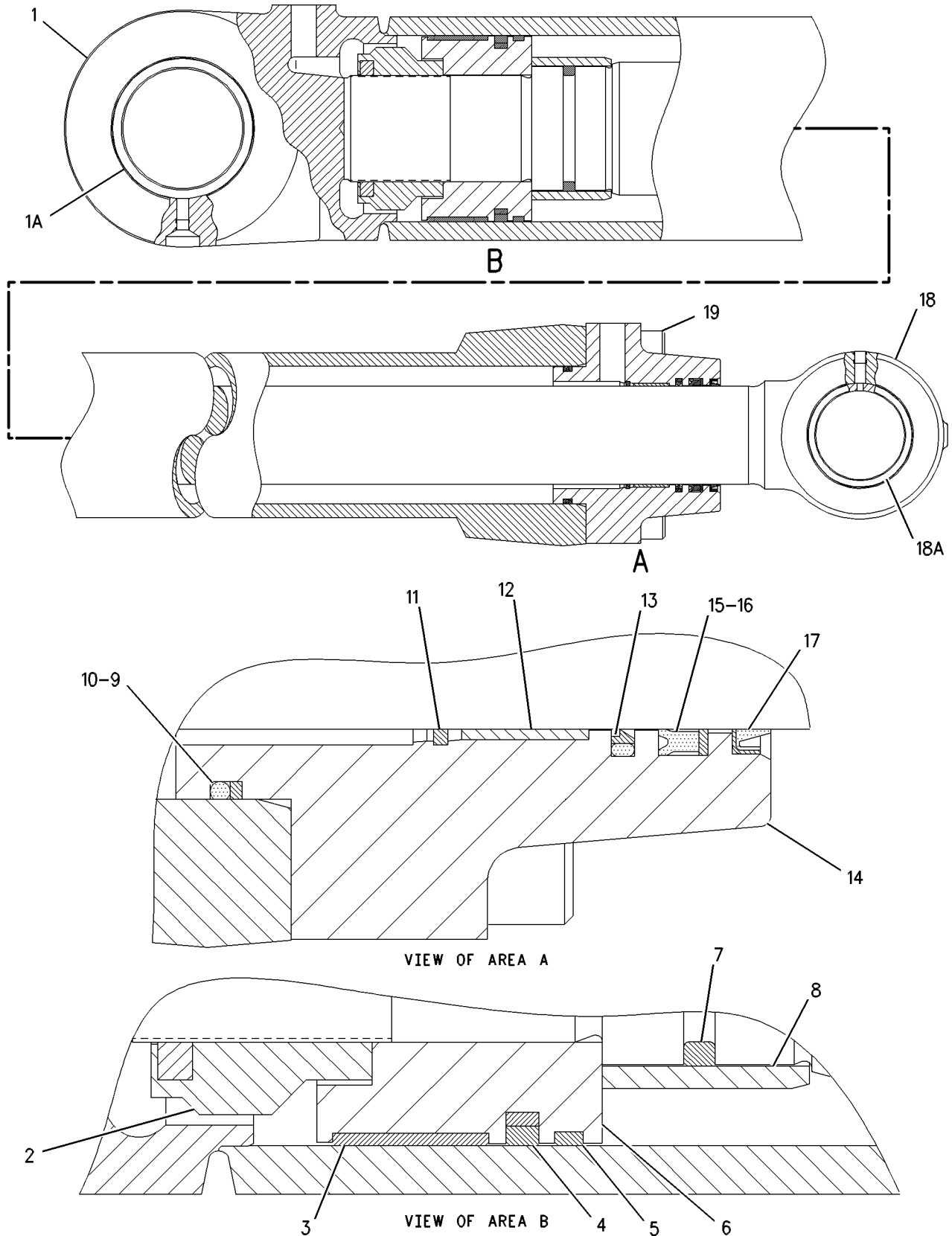
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	175-6856	1	CYLINDER AS						
	1A	1	7Y-5102	1	BEARING-SLEEVE						
M	2	1	123-2060	1	LOCKNUT						
	3	1	118-3995	1	RING						
	4	1	9X-3598	1	SEAL AS						
	5	1	096-1800	1	RING						
	6	1	123-2061	1	PISTON						
	7	1	6I-6787	1	RING-SEAL						
	8	1	087-5431	1	STOP						
	9	1	095-1632	1	SEAL-O-RING						
	10	1	087-5436	1	RING						
	11	1	093-1572	1	RING-RETAINING						
	12	1	114-0757	1	BEARING-SLEEVE						
	13	1	123-1983	1	SEAL-BUFFER						
	14	1	087-5434	1	HEAD						
	15	1	096-2664	1	SEAL-U-CUP						
	16	1	096-2665	1	RING						
	17	1	114-0646	1	SEAL-LIP						
	18	1	175-6860	1	ROD AS						
	18A	1	7Y-5102	1	BEARING-SLEEVE						
M	19	1	7Y-5215	8	BOLT-SOCKET HEAD (M24X3X90MM)						

M-METRIC PART

HYDRAULIC SYSTEM

175-6855 CYLINDER GP-B00M (contd.)

i01157738



GRAPHIC #1

g00616259

HYDRAULIC SYSTEM

204-4910 CYLINDER GP - BOOM

S/N: BPH1-UP; CAM1-UP

130MM (5.12 INCHES) BORE X 1305MM (51.38 INCHES) STROKE

PART OF 204-4909 CYLINDER & SEAL GP-BOOM

AN ATTACHMENT

SMCS-5456

i01514711

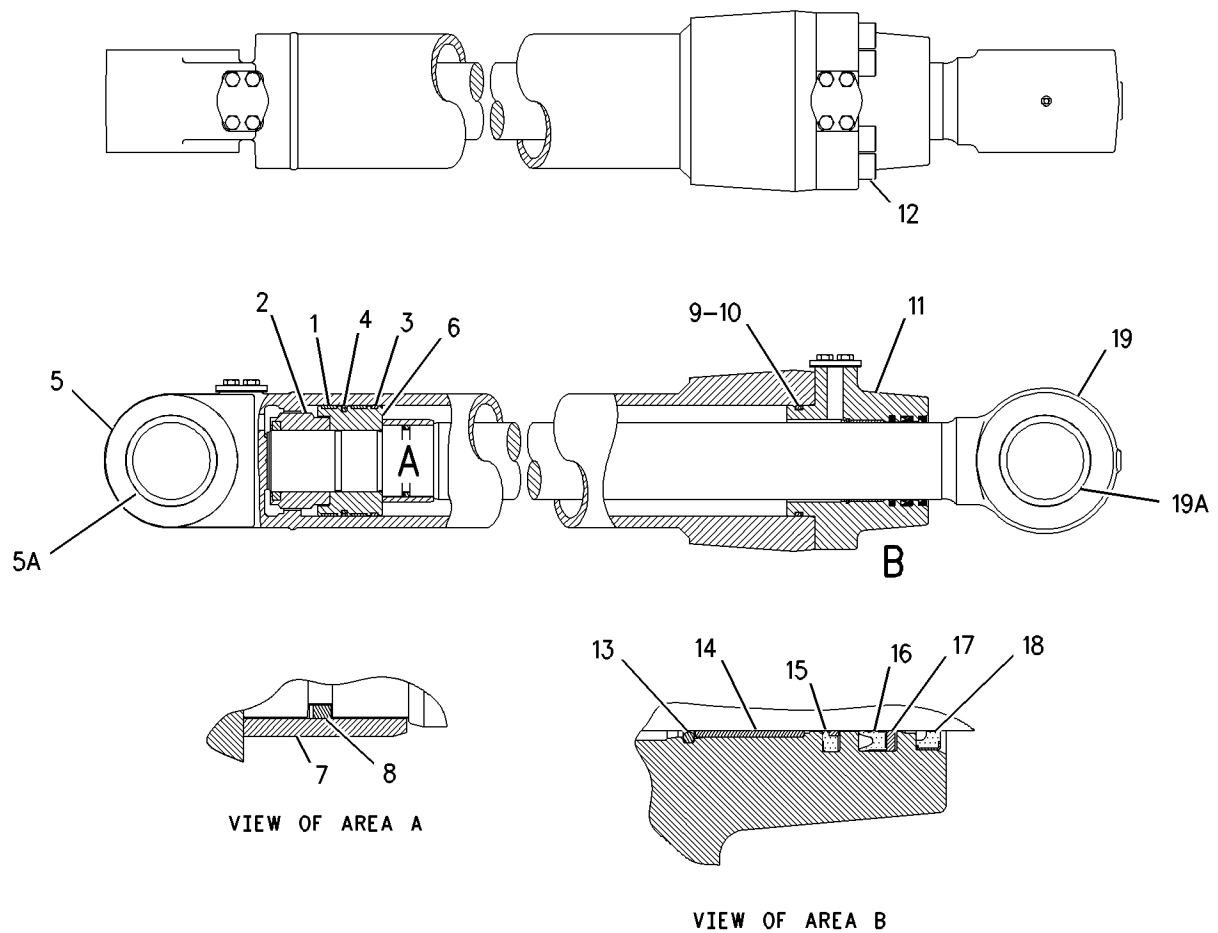
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-9771	2	RING						
M	2	1	7Y-4622	1	LOCKNUT						
	3	1	150-5884	1	RING						
	4	1	9X-3595	1	SEAL AS						
	5	1	185-0174	1	CYLINDER AS						
	5A	1	180-7577	1	BEARING-SLEEVE						
	6	1	179-9770	1	PISTON						
	7	1	7I-1351	1	STOP						
	8	1	7I-1352	1	RING-SEAL						
	9	1	095-1631	1	SEAL-O-RING						
	10	1	7Y-4633	1	RING						
	11	1	7I-1353	1	HEAD						
M	12	1	7Y-5216	8	BOLT-SOCKET HEAD (M20X2.5X80MM)						
	13	1	093-1571	1	RING-RETAINING						
	14	1	114-0758	1	BEARING-SLEEVE						
	15	1	167-2212	1	SEAL AS-BUFFER						
	16	1	167-2325	1	SEAL-U-CUP						
	17	1	096-1588	1	RING-BACKUP						
	18	1	167-2473	1	SEAL-WIPER						
	19	1	185-0182	1	ROD AS						
	19A	1	180-7577	1	BEARING-SLEEVE						

M-METRIC PART

HYDRAULIC SYSTEM

204-4910 CYLINDER GP-BOOM (contd.)

i01514711



GRAPHIC #1

g00796950

HYDRAULIC SYSTEM

123-2044 CYLINDER GP-BUCKET

S/N: CBY1-UP

130MM (5.12IN) BORE X 1156MM (45.51N) STROKE

PART OF 143-3200 CYLINDER GP-BUCKET

AN ATTACHMENT

SMCS-5457

i01208404

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
R	1	1	118-4011	1	CYLINDER AS	
	1A	1	7Y-5131	1	BEARING-SLEEVE	
M	2	1	7Y-4622	1	LOCKNUT	
J	3	1	118-4019	1	RING	
J	4	1	9X-3595	1	SEAL AS	
J	5	1	7Y-4632	1	RING	
	6	1	7I-7183	1	PISTON	
J	7	1	095-1631	1	SEAL-O-RING (119.6MM ID)	
J	8	1	7Y-4633	1	RING	
	9	1	7I-1353	1	HEAD	
	10	1	093-1571	1	RING-RETAINING	
	11	1	114-0758	1	BEARING-SLEEVE	
M	12	1	7Y-5216	8	BOLT-SOCKET HEAD (M20X2.5X80MM)	
J	13	1	123-2048	1	SEAL-BUFFER	
J	14	1	096-1587	1	SEAL-U-CUP	
J	15	1	096-1588	1	RING-BACKUP	
J	16	1	165-9287	1	SEAL-LIP TYPE	
R	17	1	123-2045	1	ROD AS	
	17A	1	7Y-5128	1	BEARING-SLEEVE	
AVAILABLE REPAIR KIT(S) :						
J			176-4914	1	KIT-SEAL	

J-KIT MARKED J INCLUDES PART(S) MARKED J

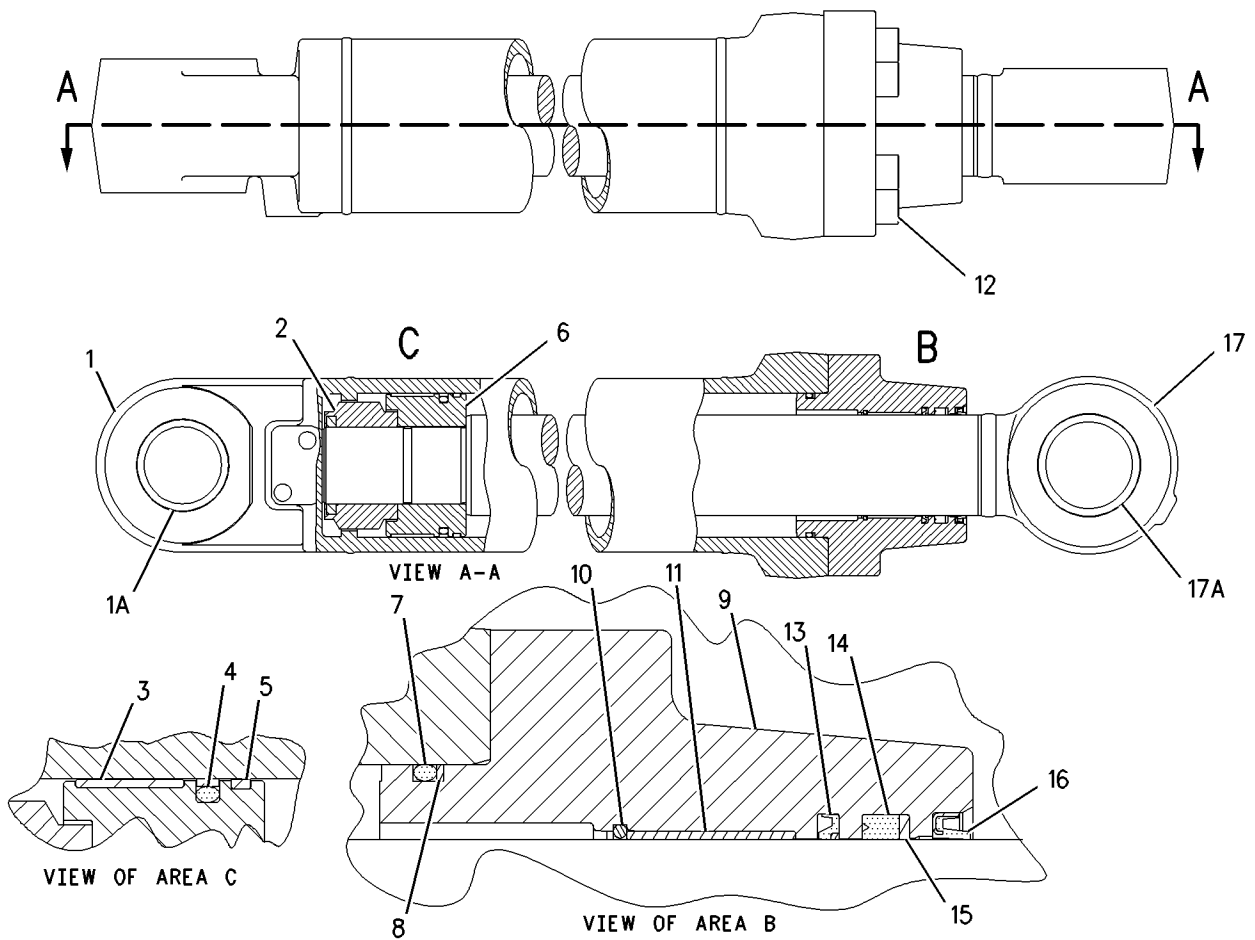
M-METRIC PART

R-REMFG PART MAY BE AVAILABLE

HYDRAULIC SYSTEM

123-2044 CYLINDER GP-BUCKET (contd.)

i01208404



GRAPHIC #1

g00646436

HYDRAULIC SYSTEM

133-6771 CYLINDER GP-BUCKET

S/N: CBY1-UP

PART OF 133-6817 CYLINDER & LINES GP-STICK
AN ATTACHMENT

SMCS-5457

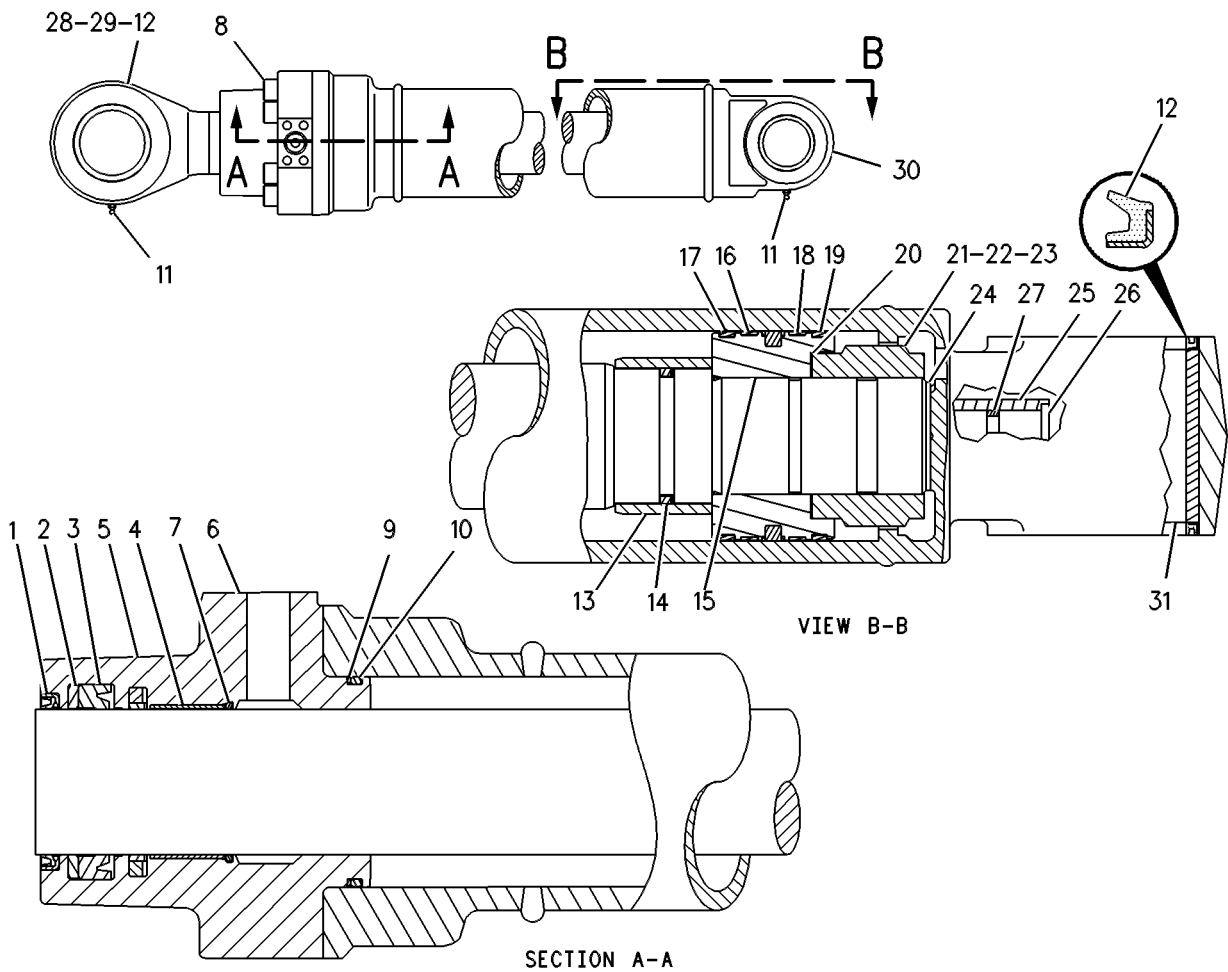
i00911863

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
J	1	1	114-0705	1	SEAL-LIP TYPE	
J	2	1	099-5575	1	RING-BACKUP	
J	3	1	095-5600	1	SEAL-U-CUP	
J	4	1	114-0704	1	SEAL-BUFFER	
	5	1	133-6828	1	HEAD	
	6	1	099-5572	1	BEARING-SLEEVE	
	7	1	099-5573	1	RING-RETAINING	
M	8	1	9X-2404	12	BOLT-SOCKET HEAD (M20X2.5X90MM)	
J	9	1	114-0706	1	RING-BACKUP	
	10	1	095-1723	1	SEAL-O-RING	
	11	1	3B-8489	2	FITTING-GREASE	
	12	1	096-0854	4	SEAL-LIP TYPE	
	13	1	133-6829	1	STOP	
J	14	1	099-8282	1	RING-SEAL	
	15	1	114-0709	1	PISTON	
J	16	1	114-0710	1	SEAL AS	
J	17	1	114-0711	2	RING-BACKUP	
J	18	1	114-0712	2	RING	
J	19	1	114-0713	2	RING	
J	20	1	099-6018	1	SHIM	
	21	1	099-6019	1	LOCKNUT-SPECIAL	
M	22	1	096-6210	1	SETSCREW-SOCKET	
	23	1	096-6211	1	BALL	
	24	1	085-8605	1	RING-RETAINING	
	25	1	133-6830	1	STOP	
	26	1	085-8604	2	RING-RETAINING	
J	27	1	085-5864	1	RING-SEAL	
	28	1	133-6832	1	ROD AS	
	29	1	119-5214	1	BEARING-SLEEVE	
	30	1	133-6831	1	CYLINDER AS	
	31	1	121-1550	1	BEARING-SLEEVE	
					AVAILABLE REPAIR KIT(S) :	
					114-0715 KIT-SEAL	
					(INCLUDES PARTS MARKED J)	
M-METRIC PART						

HYDRAULIC SYSTEM

133-6771 CYLINDER GP-BUCKET (contd.)

i00911863



GRAPHIC #1

g00276708

HYDRAULIC SYSTEM

143-3200 CYLINDER GP-BUCKET

S/N: CBY1-UP

PART OF 142-9929 CYLINDER & SEAL GP
AN ATTACHMENT

SMCS-5457

i00619230

			PART NAME						SEE
NOTE	PART NUMBER	QTY	1	2	3	4	5	6 (PRODUCT LEVEL)	PAGE
Y	123-2044	1	CYLINDER GP-BUCKET						310
Y-SEPARATE ILLUSTRATION									

MEMORANDA

HYDRAULIC SYSTEM

204-4914 CYLINDER GP-BUCKET

S/N: BPH1-UP; CAM1-UP

130MM (5.12 INCHES) BORE X 1115MM (43.90 INCHES) STROKE

PART OF 204-4913 CYLINDER & SEAL GP-BUCKET

AN ATTACHMENT

SMCS-5457

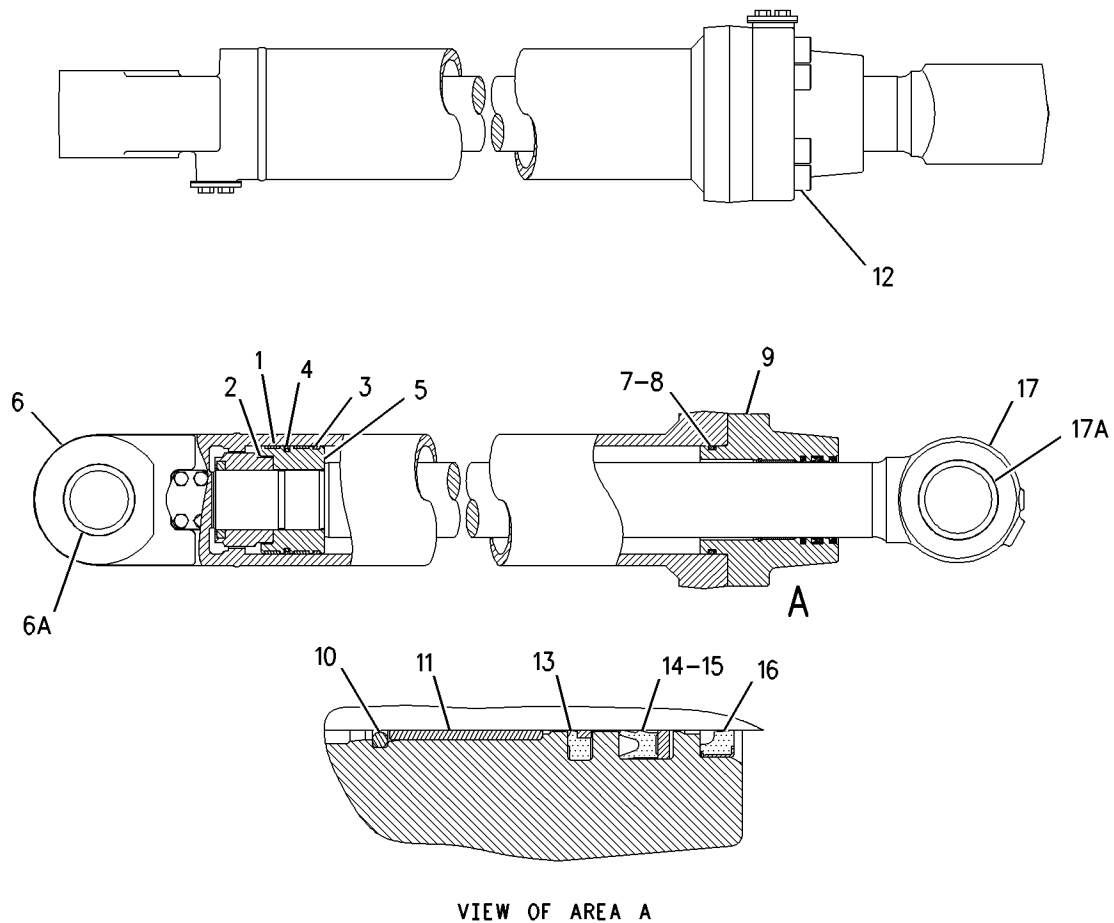
i01515729

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	179-9771	2	RING						
	2	1	7Y-4622	1	LOCKNUT						
	3	1	150-5884	1	RING						
	4	1	9X-3595	1	SEAL AS						
	5	1	179-9770	1	PISTON						
	6	1	185-0326	1	CYLINDER GP						
	6A	1	163-3748	1	BEARING-SLEEVE						
	7	1	095-1631	1	SEAL-O-RING						
	8	1	7Y-4633	1	RING						
	9	1	7I-1353	1	HEAD						
	10	1	093-1571	1	RING-RETAINING						
	11	1	114-0758	1	BEARING-SLEEVE						
M	12	1	7Y-5216	8	BOLT-SOCKET HEAD (M20X2.5X80MM)						
	13	1	167-2212	1	SEAL AS-BUFFER						
	14	1	167-2325	1	SEAL-U-CUP						
	15	1	096-1588	1	RING-BACKUP						
	16	1	167-2473	1	SEAL-WIPER						
	17	1	185-0329	1	ROD AS						
	17A	1	137-2820	1	BEARING-SLEEVE (95.18MM OD)						
M-METRIC PART											

HYDRAULIC SYSTEM

204-4914 CYLINDER GP-BUCKET (contd.)

i01515729



GRAPHIC #1

g00796745

HYDRAULIC SYSTEM

150-4569 CYLINDER GP-GRAPPLE

S/N: CBY1-UP

PART OF 150-4578, 150-4579 GRAPPLE GP
AN ATTACHMENT

SMCS-5555

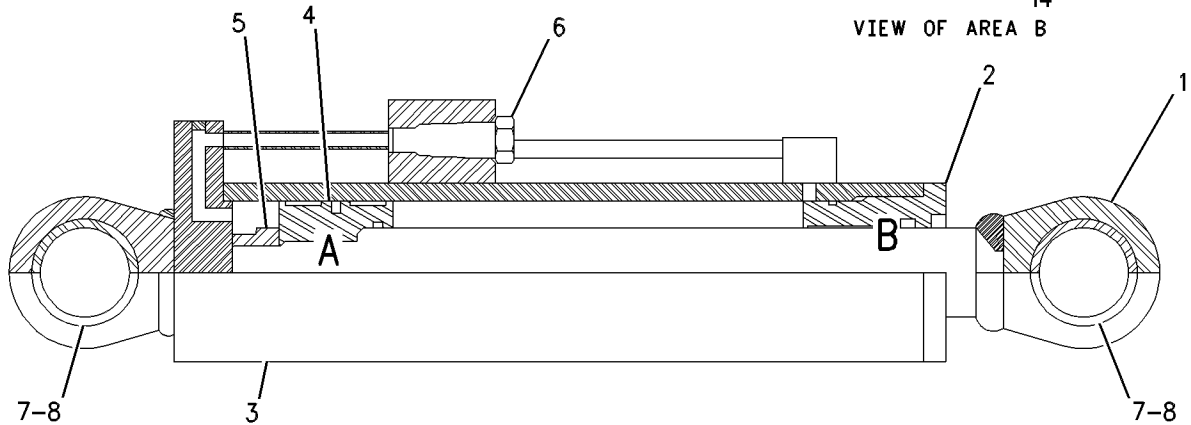
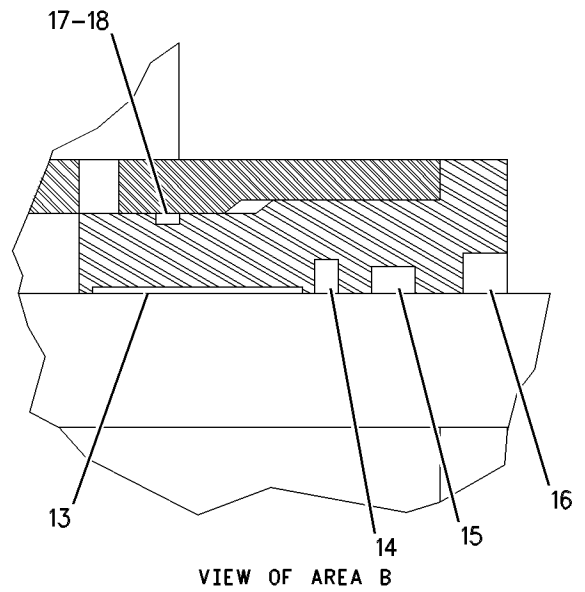
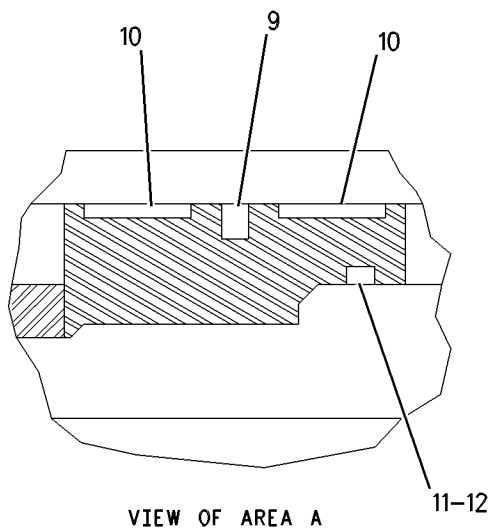
i00905721

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	150-4570	1	ROD						
	2	1	150-4571	1	HEAD						
	3	1	150-4572	1	BARREL						
	4	1	150-4574	1	PISTON						
	5	1	5M-6667	1	LOCKNUT						
	6	1	147-7355	1	VALVE - LOAD CHECK						
	7	1	7K-0078	2	BEARING-SLEEVE						
	8	1	7K-9205	4	SEAL-LIP (63.5MM ID)						
J	9	1	5J-5402	1	SEAL AS						
J	10	1	6J-2797	2	RING-WEAR						
J	11	1	1H-5728	1	SEAL-O-RING (63MM ID)						
J	12	1	4J-9225	2	RING-BACKUP						
J	13	1	8T-0785	2	RING-WEAR						
J	14	1	8C-3839	1	SEAL AS						
J	15	1	5J-0964	1	SEAL-U-CUP						
J	16	1	8C-3840	1	SEAL-LIP						
J	17	1	1H-8128	1	SEAL-O-RING (94.84MM ID)						
J	18	1	2K-6830	1	RING-BACKUP						
AVAILABLE REPAIR KIT(S) :											
J			153-3724	1	KIT-SEAL						
J-KIT(S) MARKED J PART(S) MARKED J											

HYDRAULIC SYSTEM

150-4569 CYLINDER GP - GRAPPLE (contd.)

i00905721



GRAPHIC #1

g00466929

HYDRAULIC SYSTEM

116-3638 CYLINDER GP-STICK

S/N: CBY1-UP

170MM (6.69IN) BORE X 1680MM (66IN) STROKE

PART OF 143-3201 CYLINDER GP-STICK

AN ATTACHMENT

SMCS-5458

i01196508

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
R	1	1	116-3639	1	CYLINDER AS	
	1A	1	7Y-4939	1	BEARING-SLEEVE	
	2	1	103-8345	1	RING-RETAINING	
	3	1	107-6579	1	RING	
	4	1	107-6933	1	STOP	
M	5	1	7Y-4956	1	LOCKNUT	
J	6	1	105-7262	1	RING	
J	7	1	9X-3607	1	SEAL AS	
J	8	1	096-5609	1	RING	
	9	1	7I-7181	1	PISTON	
J	10	1	6I-6785	1	RING-SEAL	
	11	1	7Y-4936	1	STOP	
J	12	1	095-1726	1	SEAL-O-RING (159.3MM ID)	
J	13	1	7Y-4945	1	RING	
	14	1	7Y-4944	1	RING-RETAINING	
	15	1	114-0761	1	BEARING-SLEEVE	
J	16	1	123-2031	1	SEAL-BUFFER	
	17	1	7Y-4932	1	HEAD	
J	18	1	7Y-4942	1	SEAL-U-CUP	
J	19	1	7Y-4941	1	RING	
J	20	1	165-9291	1	SEAL-LIP TYPE	
R	21	1	118-3945	1	ROD AS	
	21A	1	7Y-4939	1	BEARING-SLEEVE	
M	22	1	7Y-5239	8	BOLT-SOCKET HEAD (M24X3.0X100MM)	
	23	1	095-0930	2	RING-RETAINING	
AVAILABLE REPAIR KIT(S) :						
			168-0759	1	KIT-SEAL	

J-KIT(S) MARKED J INCLUDES PARTS MARKED J

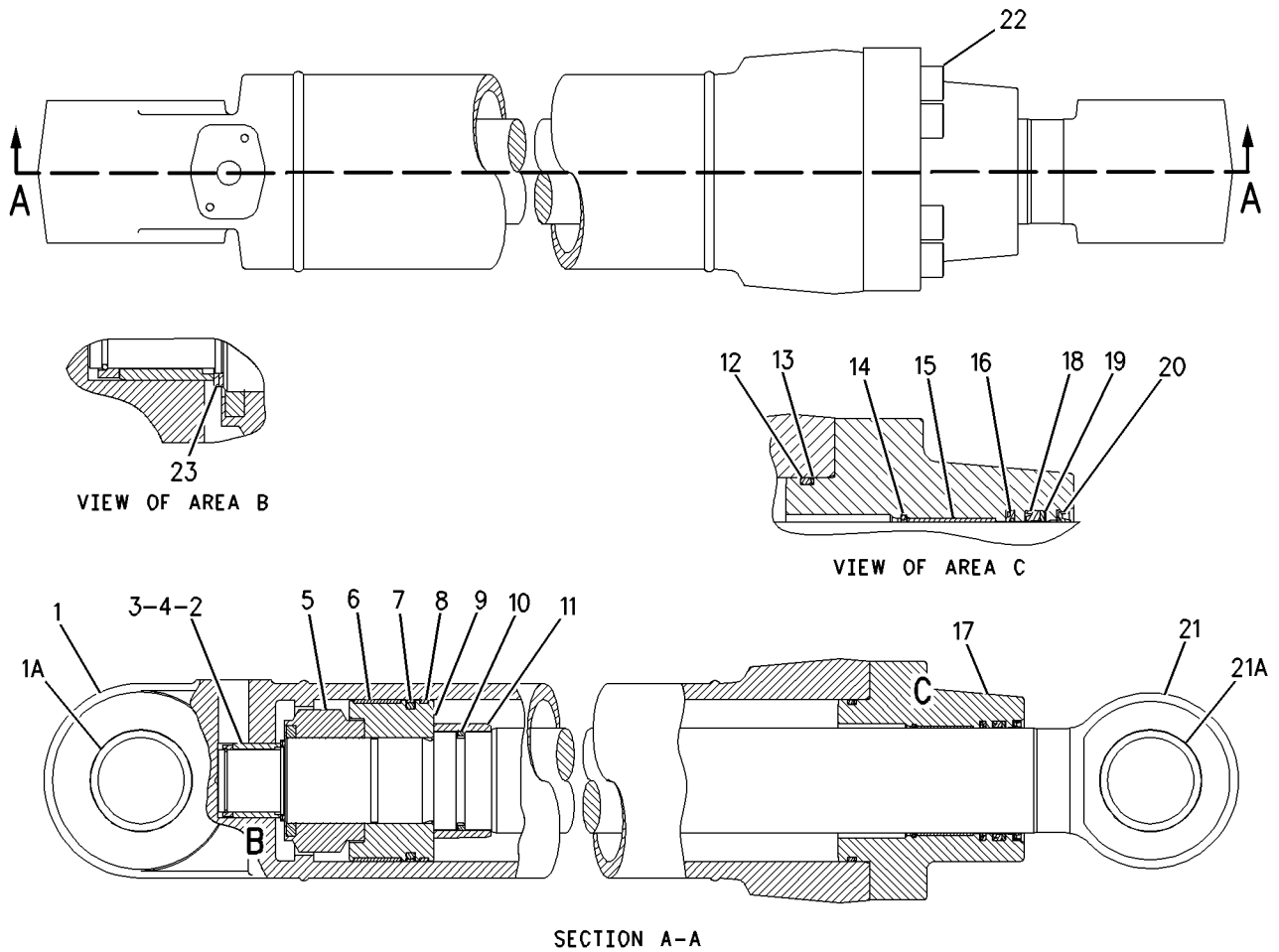
M-METRIC PART

R-REMFG PART MAY BE AVAILABLE

HYDRAULIC SYSTEM

116-3638 CYLINDER GP-STICK (contd.)

i01196508



GRAPHIC #1

g00639982

HYDRAULIC SYSTEM

143-3201 CYLINDER GP-STICK

S/N: CBY1-UP

PART OF 142-9928 CYLINDER & SEAL GP
AN ATTACHMENT

SMCS-5458

i00619236

			PART NAME						SEE
NOTE	PART NUMBER	QTY	1	2	3	4	5	6 (PRODUCT LEVEL)	PAGE
Y	116-3638	1	CYLINDER GP-STICK						320
Y-SEPARATE ILLUSTRATION									

MEMORANDA

HYDRAULIC SYSTEM

204-4912 CYLINDER GP-STICK

S/N: BPH1-UP; CAM1-UP

140MM (5.51 INCHES) BORE X 1660MM (65.35 INCHES) STROKE

PART OF 204-4911 CYLINDER & SEAL GP-BOOM

AN ATTACHMENT

SMCS-5458

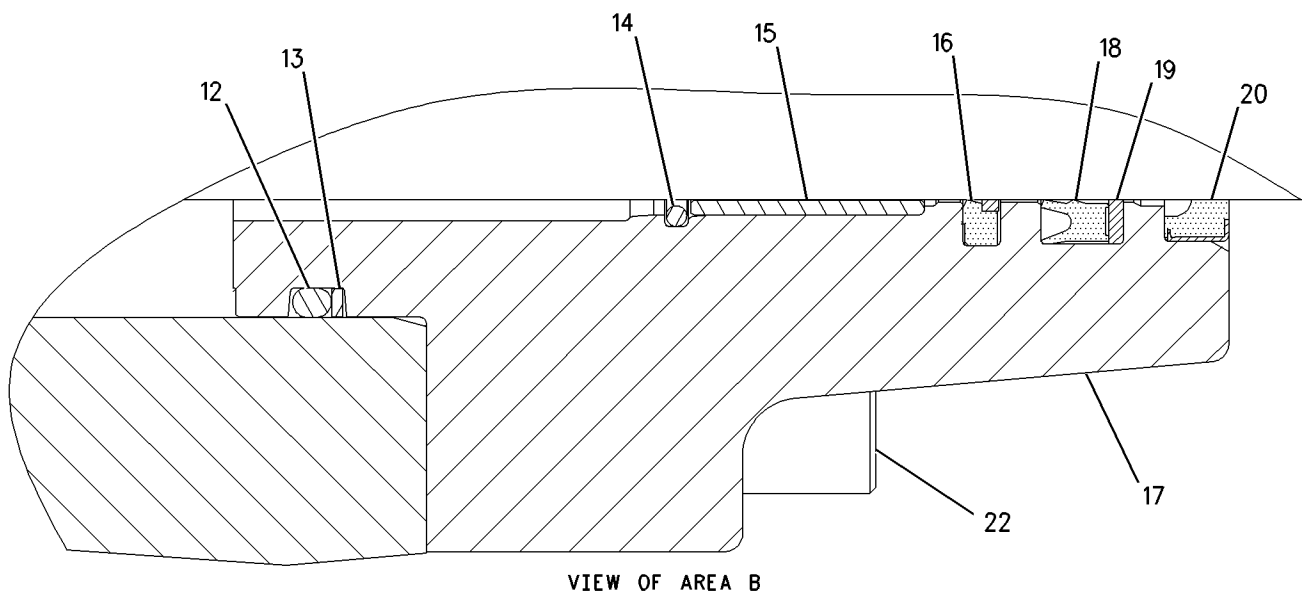
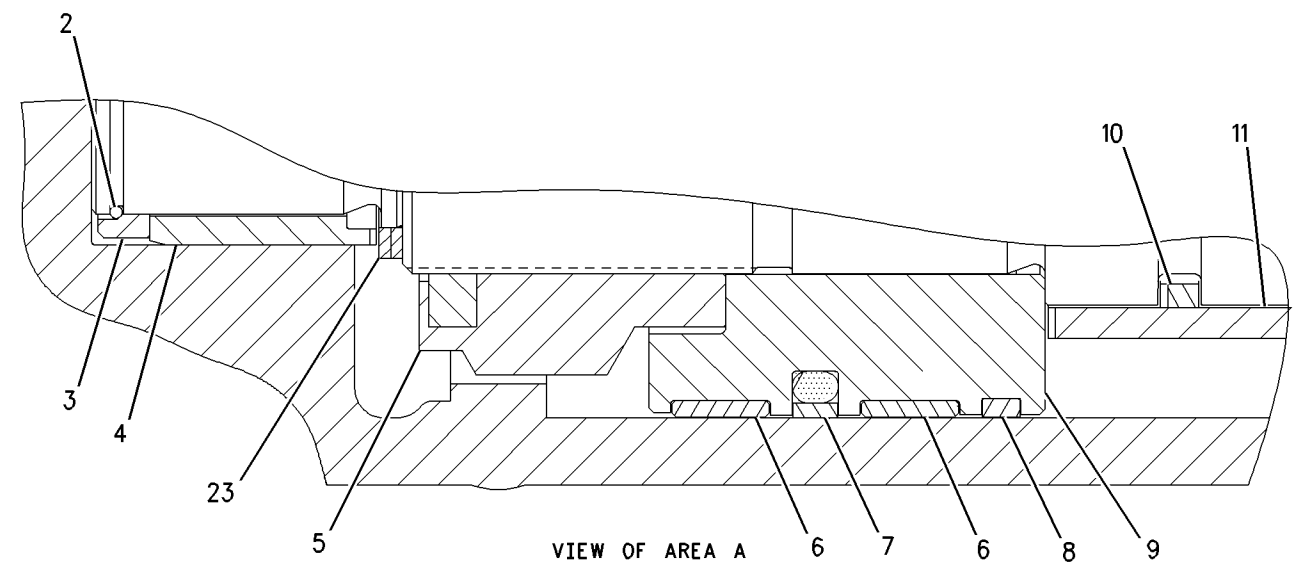
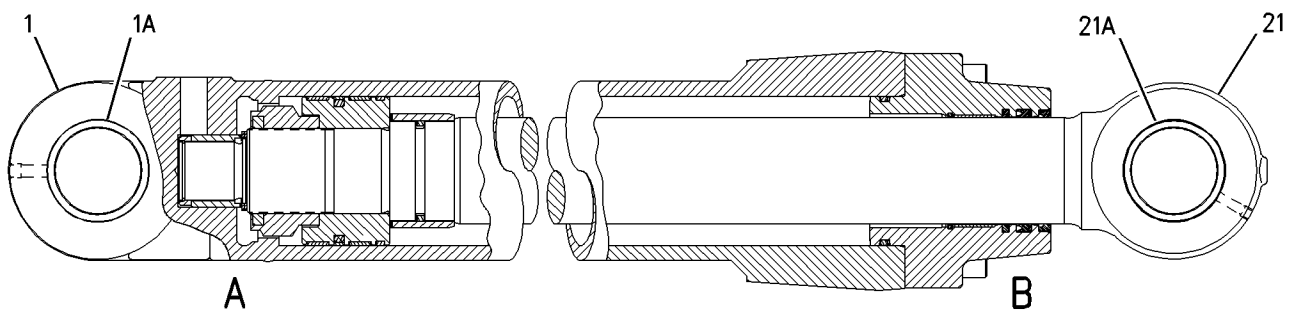
i01530738

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE
	NO	REF			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-0186	1	CYLINDER AS						
	1A	1	163-3747	1	BEARING-SLEEVE						
	2	1	103-8378	1	RING-RETAINING						
	3	1	103-8379	1	RING						
	4	1	103-8380	1	STOP						
M	5	1	123-2060	1	LOCKNUT						
	6	1	158-9065	2	RING						
	7	1	9X-3598	1	SEAL AS						
	8	1	179-9667	1	RING						
	9	1	158-9064	1	PISTON						
	10	1	6I-6787	1	RING-SEAL						
	11	1	087-5431	1	STOP						
	12	1	095-1632	1	SEAL-O-RING						
	13	1	087-5436	1	RING						
	14	1	093-1572	1	RING-RETAINING						
	15	1	114-0757	1	BEARING-SLEEVE						
	16	1	167-2215	1	SEAL AS-BUFFER						
	17	1	087-5434	1	HEAD						
	18	1	167-2330	1	SEAL-U-CUP						
	19	1	096-2665	1	RING						
	20	1	167-2480	1	SEAL-WIPER						
	21	1	185-0193	1	ROD AS						
	21A	1	163-3747	1	BEARING-SLEEVE						
M	22	1	7Y-5215	8	BOLT-SOCKET HEAD (M24X3X90MM)						
	23	1	095-0929	2	RING-RETAINING						
M-METRIC PART											

HYDRAULIC SYSTEM

204-4912 CYLINDER GP-STICK (contd.)

i01530738



GRAPHIC #1

g00798513

HYDRAULIC SYSTEM

191-5537 DRIVE GP-AUXILIARY PUMP

S/N: BPH1-UP; CAM1-UP; CBY1-UP
AN ATTACHMENT

SMCS-3108

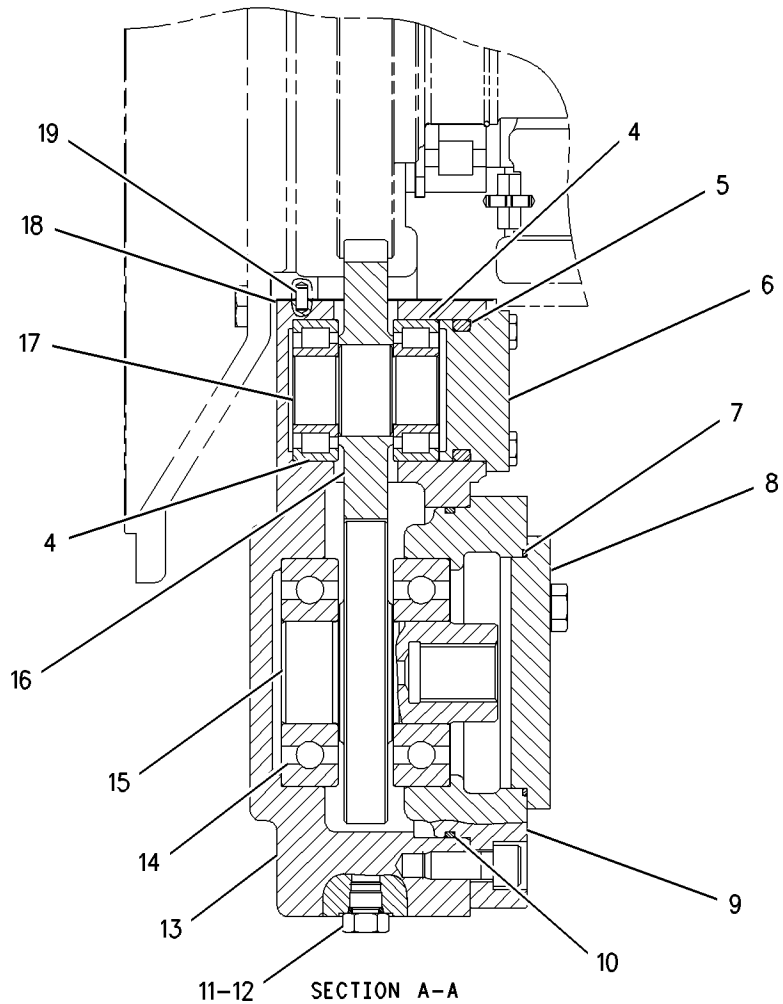
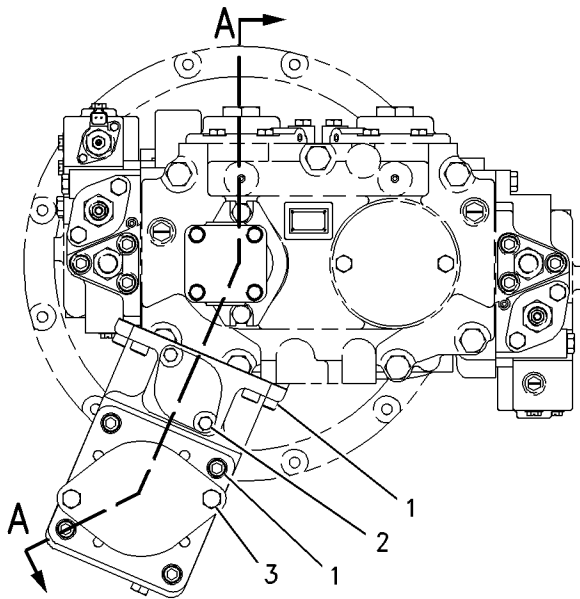
i01412662

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-3957	8	BOLT-HEX SOCKET (M12X1.75X30MM)						
M	2	1	8T-4189	2	BOLT (M8X1.25X20MM)						
M	3	1	8T-4192	2	BOLT (M12X1.75X25MM)						
	4	1	191-5601	2	BEARING						
	5	1	096-0121	1	SEAL-O-RING						
	6	1	191-5541	1	COVER						
	7	1	8T-5049	1	SEAL-O-RING (101.27MM ID)						
	8	1	177-2585	1	COVER						
	9	1	173-3436	1	COVER						
	10	1	095-1680	1	SEAL-O-RING						
	11	1	9S-4191	1	PLUG-O-RING						
	12	1	3J-1907	1	SEAL-O-RING (11.89MM ID)						
	13	1	191-5538	1	BODY						
	14	1	099-2096	2	BALL BEARING						
	15	1	173-3406	1	SHAFT						
	16	1	191-5540	1	GEAR (39 TEETH)						
	17	1	191-5539	1	SHAFT						
	18	1	129-7857	1	GASKET						
	19	1	094-1875	2	DOWEL						
M-METRIC PART											

HYDRAULIC SYSTEM

191-5537 DRIVE GP-AUXILIARY PUMP (contd.)

i01412662



GRAPHIC #1

g00739997

HYDRAULIC SYSTEM

191-2692 DRIVE GP-SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

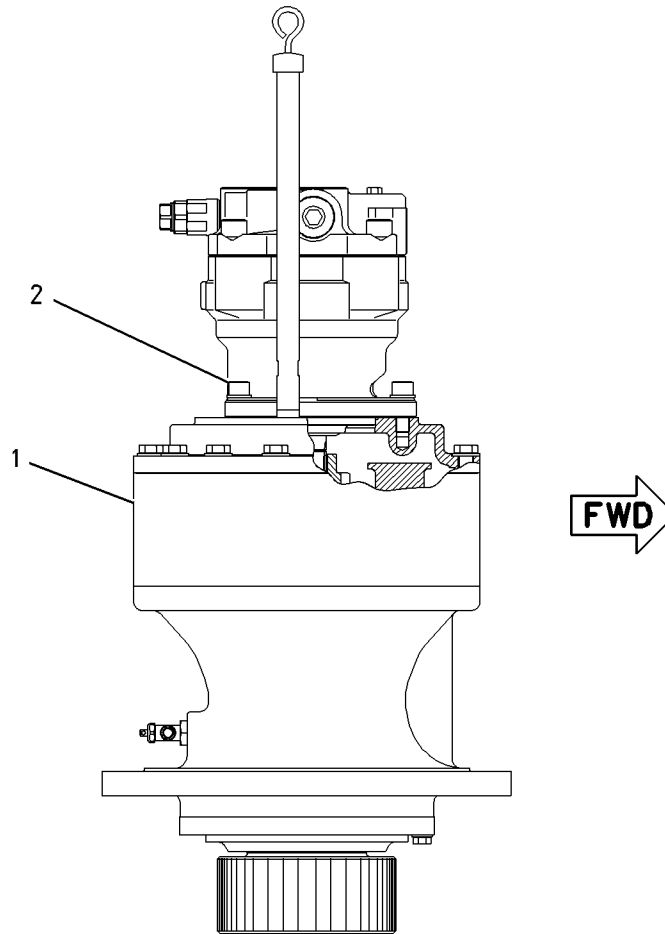
WITH MOTOR

PART OF 192-2346, 192-2347 POWER TRAIN AR

SMCS-5459

i01547097

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	191-2693	1	DRIVE GP-SWING						330
Y	2	1	177-2458	1	MOTOR & MTG GP-SWING						477
Y-SEPARATE ILLUSTRATION											



RIGHT SIDE VIEW

GRAPHIC #1

g00688643

MEMORANDA

HYDRAULIC SYSTEM

191-2693 DRIVE GP-SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 191-2692 DRIVE GP-SWING

FIELD REPLACEMENT ORDER 199-4490 DRIVE GP-SWING

SMCS-5459

i01469111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	4I-7466	4	GEAR-PLANETARY (23 TEETH)	
	2	1	4I-7527	1	BREATHER AS	
		1	093-5150	1	COUPLING-PIPE	
		1	159-7665	1	NIPPLE-PIPE	
	3	1	6V-7238	1	VALVE-SHUTOFF	
	4	1	7I-7728	1	CARRIER-PLANETARY	
	5	1	7Y-0225	3	SHAFT-PLANETARY	
	6	1	7Y-1434	2	SPACER	
	7	1	093-1730	2	RING-RETAINING	
	8	1	093-1731	1	RING-RETAINING	
	9	1	094-0611	6	WASHER	
	10	1	094-1528	8	WASHER	
	11	1	136-2940	1	BEARING	
	12	1	096-2653	1	RING-RETAINING	
	13	1	136-2904	1	BEARING	
	14	1	114-1383	4	SHAFT-PLANETARY	
	15	1	191-2699	1	GAUGE-OIL LEVEL	
	16	1	191-2698	1	TUBE-GAUGE	
	17	1	114-1401	1	COVER-HOUSING	
	18	1	191-2696	1	CAGE	
	19	1	135-9044	2	SEAL-LIP TYPE	
	20	1	169-5617	1	GEAR-SUN	
	21	1	169-5618	3	GEAR-PLANET	
	22	1	191-2579	1	CARRIER-PLANETARY	
	23	1	171-9280	1	GEAR-RING	
	24	1	191-2694	1	SHAFT-PINION	
	25	1	191-2695	1	HOUSING	
	26	1	171-9283	1	GEAR-SUN	
	27	1	171-9375	1	SEAL-O-RING	
	28	1	191-2697	1	SPACER	
	29	1	095-0891	7	PIN-SPRING	
	30	1	3K-0360	1	SEAL-O-RING	
	31	1	8J-8879	1	SEAL-O-RING	
	32	1	7Y-0252	3	BEARING AS-ROLLER	
	33	1	7Y-0339	8	BEARING AS-ROLLER	
M	34	1	8T-4183	8	BOLT (M12X1.75X40 MM)	
	35	1	8T-4223	8	WASHER-HARD (13.5X25.5X3MM THK)	
M	36	1	8T-6385	16	BOLT (M16X2X180MM)	
	37	1	9X-8257	16	WASHER (17.5X30X3.5MM THK)	
B	38	1	1U-8846	1	SEALANT-GASKET	

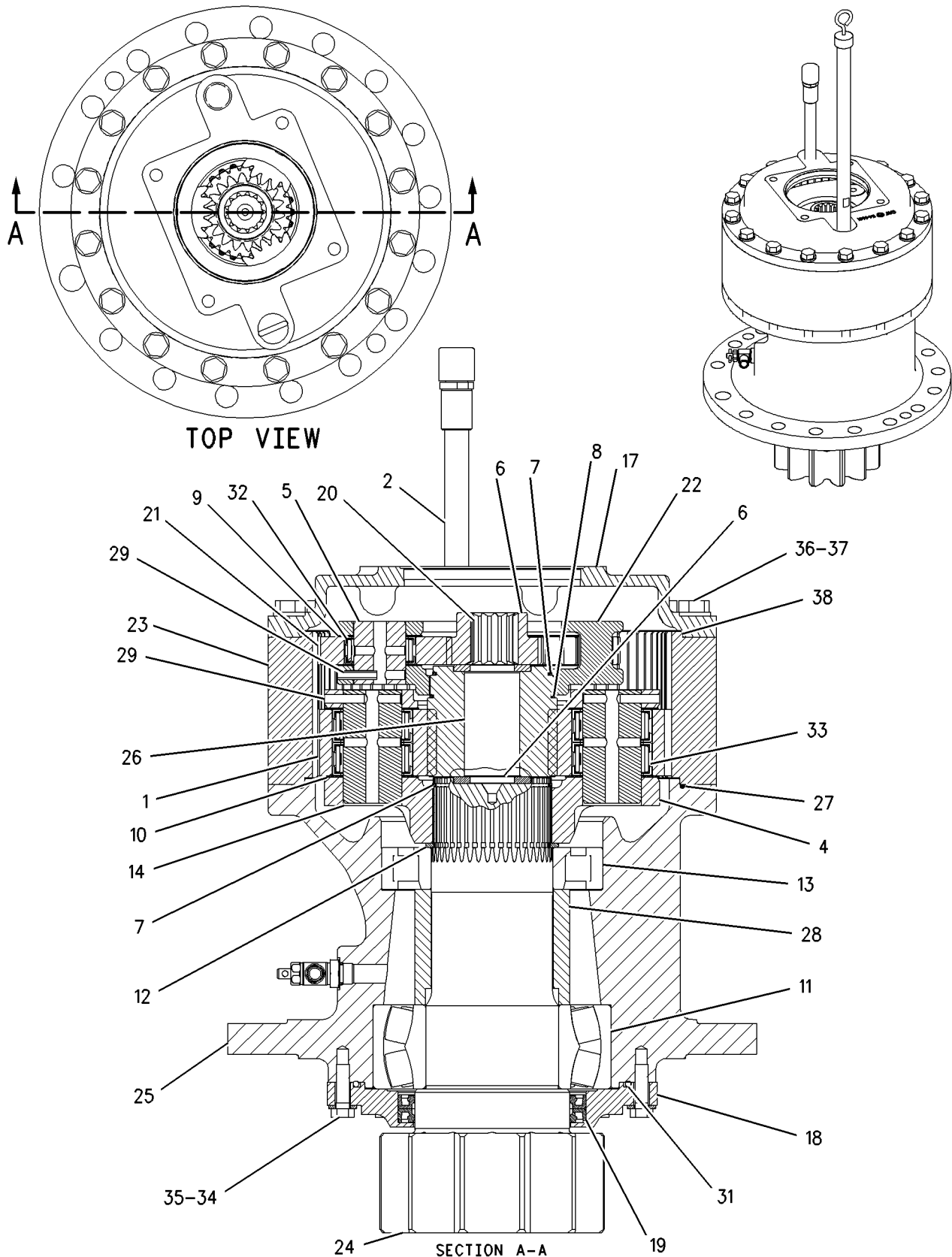
B-USE AS REQUIRED

M-METRIC PART

HYDRAULIC SYSTEM

191-2693 DRIVE GP-SWING (contd.)

i01469111



GRAPHIC #1

g00767091

HYDRAULIC SYSTEM

171-9309 FASTENER GP-SWING & FINAL DR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2346, 192-2347 POWER TRAIN AR

SMCS-4050, 5459

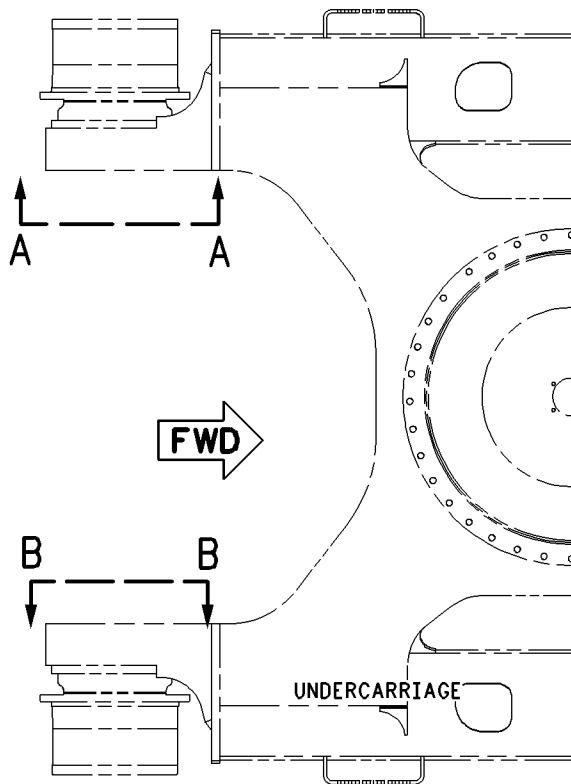
i01357121

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4141	40	BOLT (M20X2.5X70MM)						
M	2	1	7X-2576	16	BOLT (M24X3X70MM)						
	3	1	8T-4123	40	WASHER-PLATED (3.5MM THK)						
	4	1	8T-4167	16	WASHER (4.0MM THK)						
	5	1	096-4755	1	PIN						
	6	1	1U-8846		SEALANT (15ML)						
	8	1	2B-7561	2	CORK						
	9	1	5P-0767		HOSE (90CM)						
	10	1	5D-1026	1	CLAMP-HOSE						
	11	1	114-1374	1	SUPPORT						
M	12	1	8T-4137	1	BOLT (M10X1.50X20MM)						
	13	1	8T-4121	1	WASHER-HARD (2.5MM THK)						
M-METRIC PART											

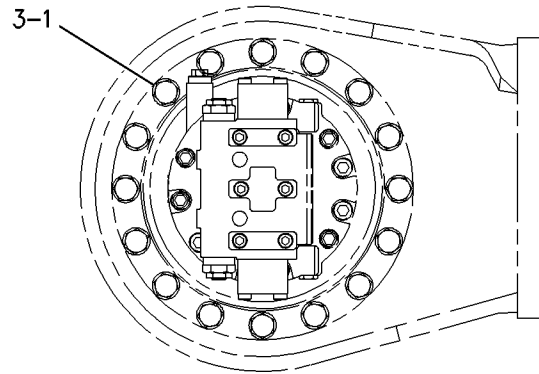
HYDRAULIC SYSTEM

171-9309 FASTENER GP-SWING & FINAL DR (contd.)

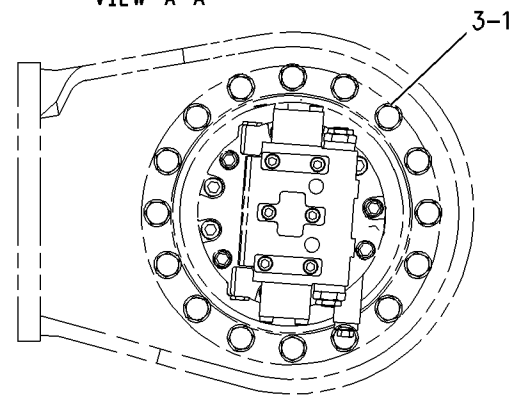
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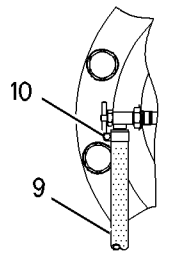
TOP VIEW



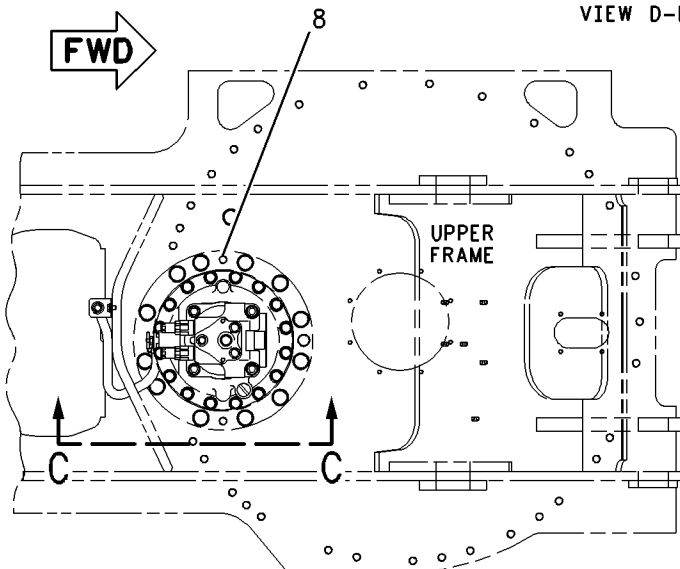
VIEW A-A



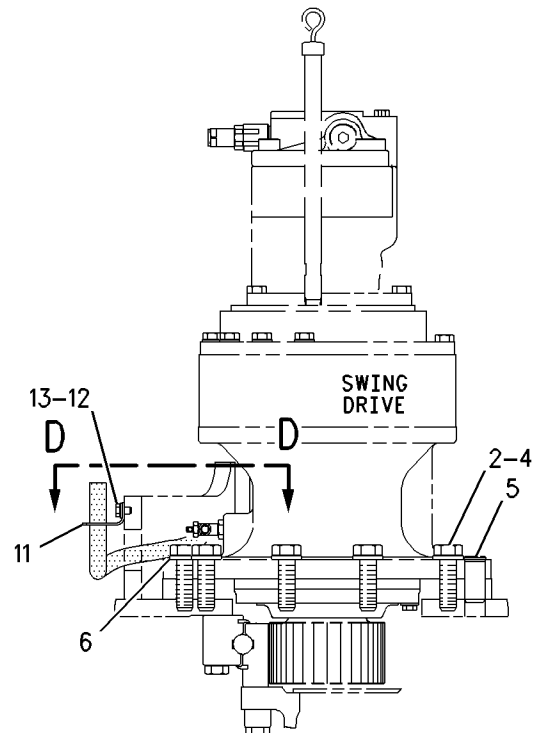
VIEW B-B



VIEW D-D



TOP VIEW



VIEW C-C

GRAPHIC #1

g00702700

HYDRAULIC SYSTEM

126-2075 FILTER GP-OIL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

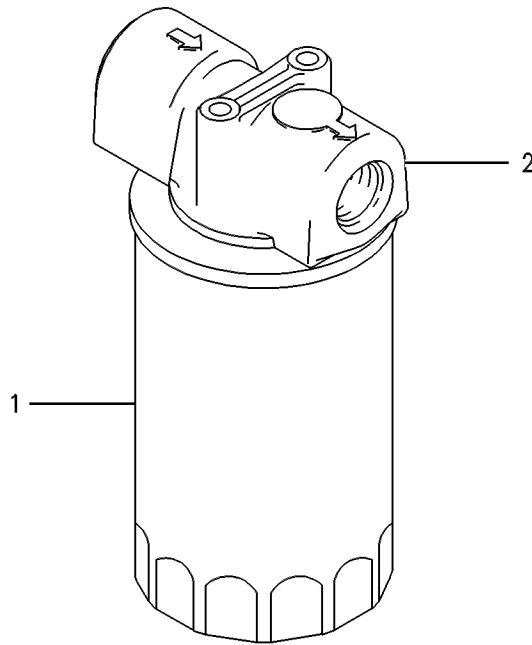
CASE DRAIN

PART OF 176-4617 TANK & FILTER GP-HYDRAULIC

SMCS-3004, 3067, 4295, 431F, 5068, 5092

i01469784

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	093-7521	1	FILTER AS-OIL (CASE DRAIN)						
	2	1	126-2076	1	BASE AS-OIL FILTER						



GRAPHIC #1

g00258224

MEMORANDA

HYDRAULIC SYSTEM

158-9005 FILTER GP-OIL-RETURN

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4617 TANK & FILTER GP-HYDRAULIC

SMCS-3004, 3067, 4295, 431F, 5068, 5092

i01469786

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	173-3503	1	BASE GP-OIL FILTER	49
	2	1	129-8034	1	VALVE AS	
	3	1	123-2003	2	SEAL-O-RING	
	4	1	173-3507	1	HOUSING AS	
M	5	1	8T-4194	8	BOLT (M12X1.75X50MM)	
	6	1	8T-4223	8	WASHER-HARD (13.5X25.5X3MM THK)	
Y	7	1	173-3511	1	FILTER GP-OIL (RETURN)	338
	8	1	173-3510	1	COVER	
	9	1	173-3518	1	INDICATOR AS	
	10	1	159-7784	1	SEAL-O-RING	
M	11	1	6V-4298	4	BOLT (M5X0.8X16MM)	
	12	1	8T-0328	4	WASHER-HARD (5.5X10X1MM THK)	
M	13	1	8T-6693	4	SCREW-MACHINE (M5X0.8X16MM)	

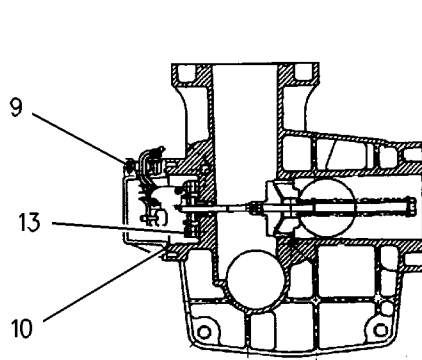
M-METRIC PART

Y-SEPARATE ILLUSTRATION

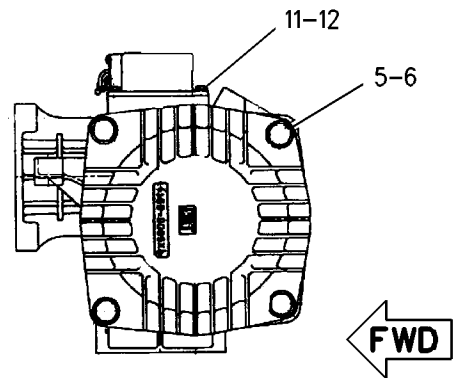
HYDRAULIC SYSTEM

158-9005 FILTER GP-OIL (contd.)

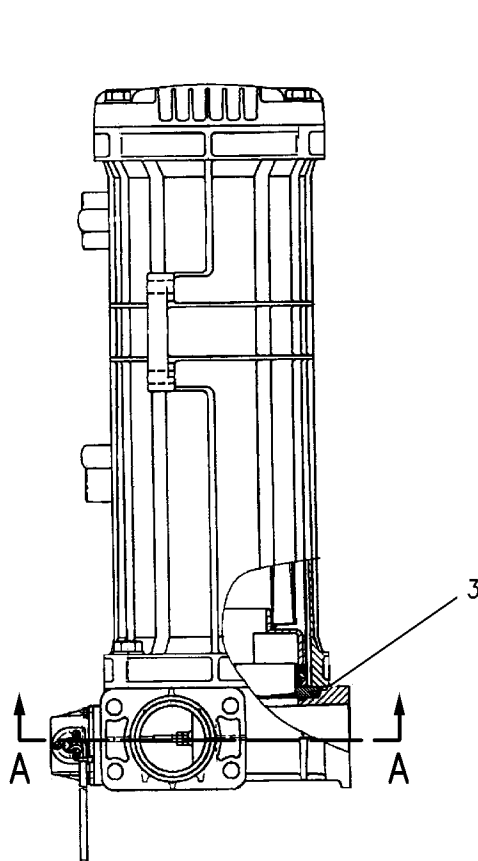
i01469786



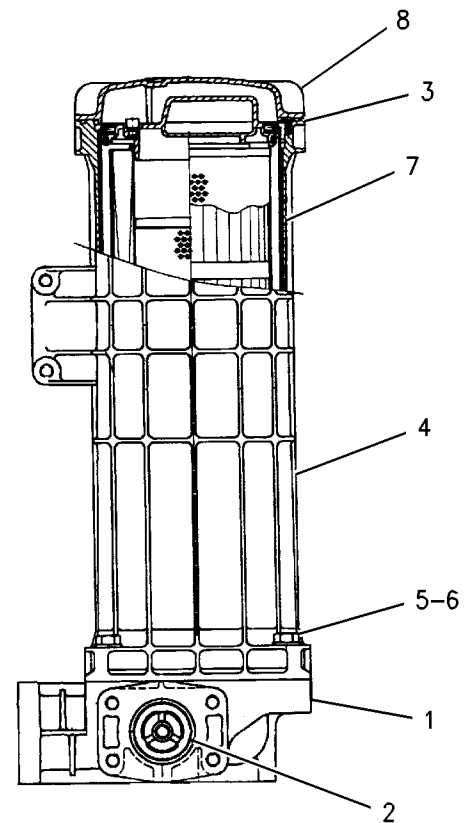
SECTION A-A



TOP VIEW



FRONT VIEW



LEFT SIDE VIEW

GRAPHIC #1

g00741215

HYDRAULIC SYSTEM

173-3511 FILTER GP-OIL-RETURN

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 158-9005 FILTER GP-OIL

SMCS-3004, 3067, 4295, 431F, 5068, 5092

i01469787

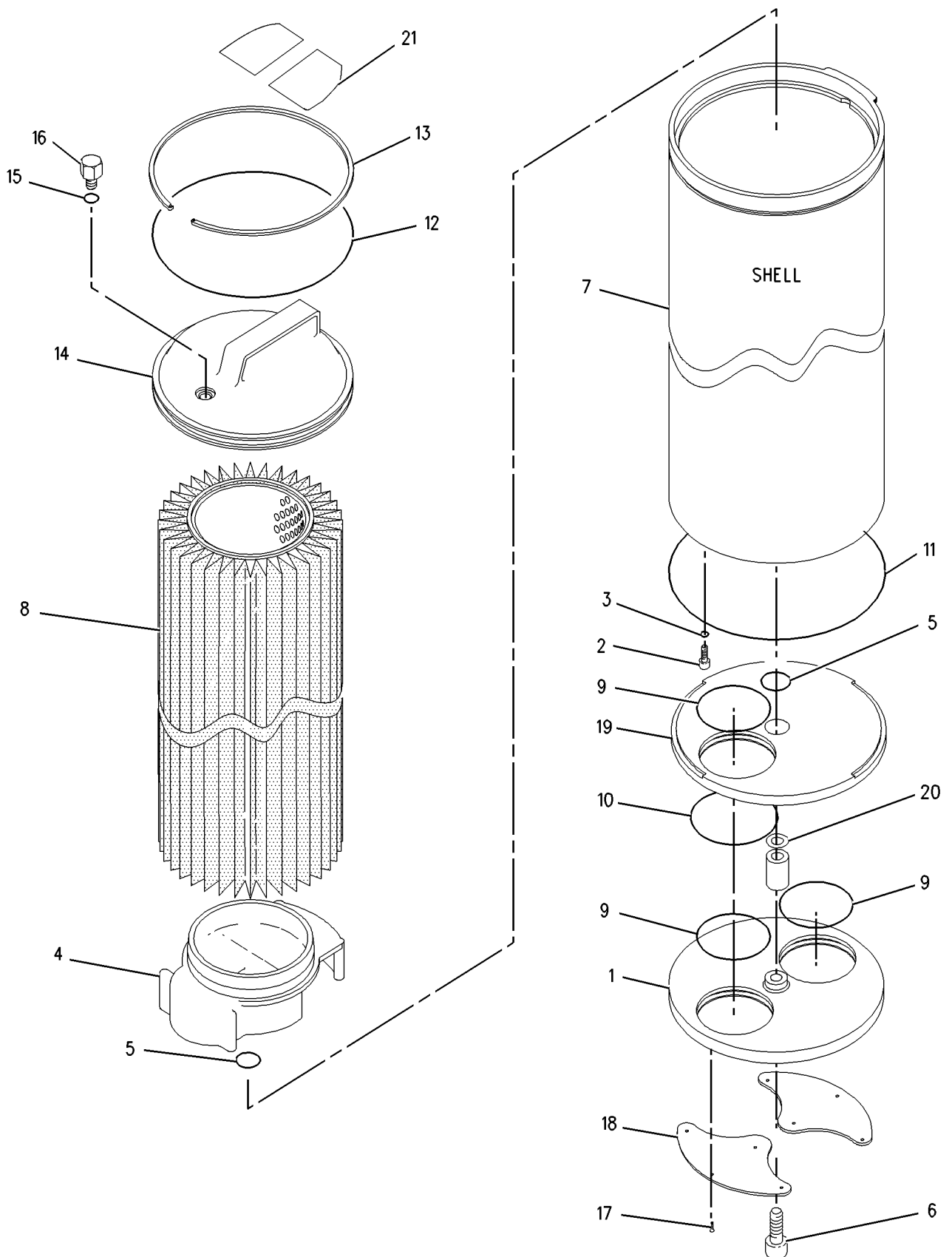
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	173-3512	1	PLATE-SLIDE						
M	2	1	173-3529	6	BOLT						
	3	1	3T-7528	6	SEAL-O-RING						
	4	1	173-3513	1	BASE-ELEMENT						
	5	1	3E-4297	2	SEAL-O-RING						
M	6	1	137-3626	1	BOLT-SHOULDER (M6X1X28.75MM)						
	7	1	173-3514	1	SHELL AS						
	8	1	126-2081	1	FILTER ELEMENT AS-OIL (HYDRAULIC) (RETURN)						
	9	1	137-3623	4	SEAL-O-RING						
	10	1	6V-7658	2	SEAL-O-RING						
	11	1	177-2553	1	SEAL						
	12	1	095-1681	1	SEAL-O-RING						
	13	1	173-3515	1	RING-RETAINING						
	14	1	173-3516	1	HANDLE						
	15	1	4J-7533	1	SEAL-O-RING						
	16	1	9S-4180	1	PLUG-O-RING						
	18	1	137-3625	2	PAD						
	19	1	173-3517	1	PLATE						
B	20	1	137-3628	1	SHIM (0.1MM THK)						
	21	1	173-3508	1	FILM-INSTRUCTION						

B-USE AS REQUIRED
M-METRIC PART

HYDRAULIC SYSTEM

173-3511 FILTER GP-OIL (contd.)

i01469787



GRAPHIC #1

g00741766

HYDRAULIC SYSTEM

177-7452 GUARD GP-CYLINDER

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-7164

i01154094

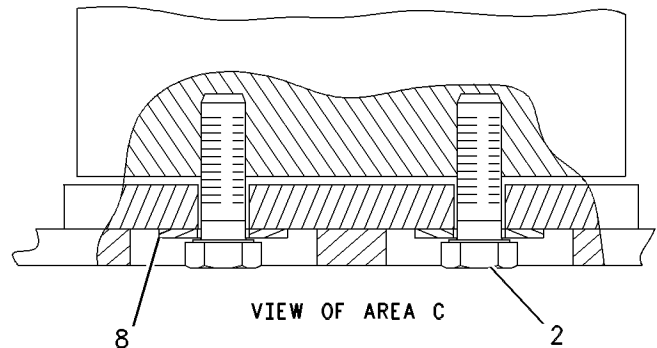
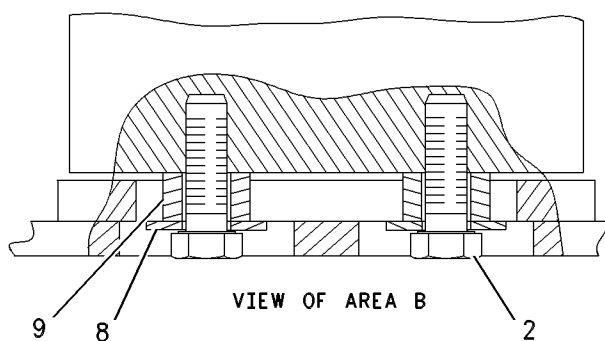
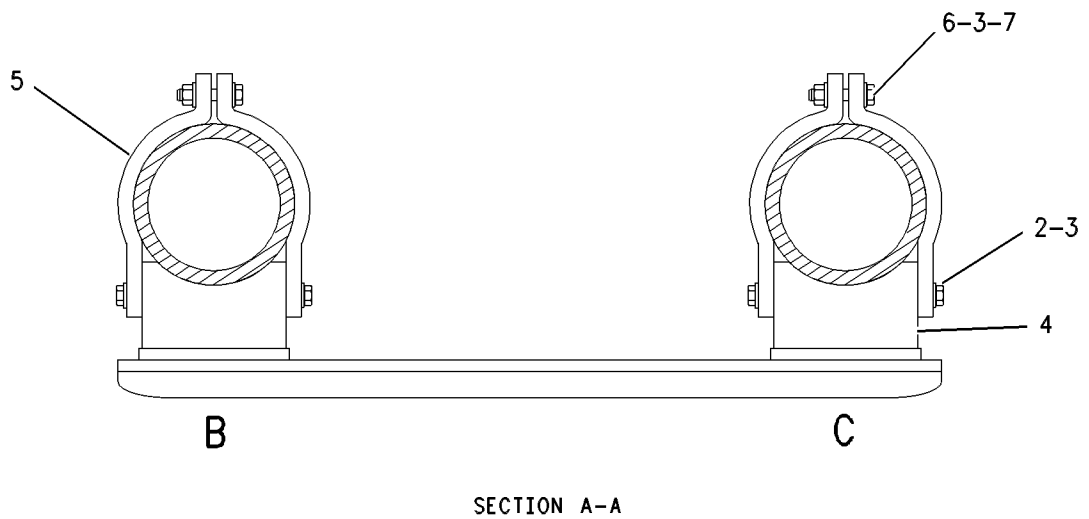
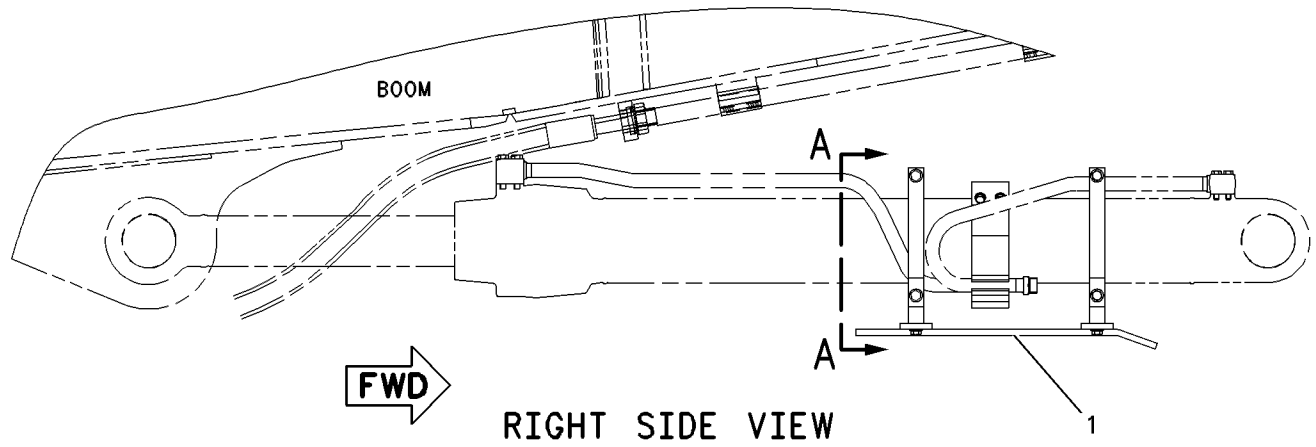
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-0689	1	GUARD AS						
M	2	1	8T-4956	16	BOLT (M12X1.75X35MM)						
	3	1	8T-4223	16	WASHER-HARD (3MM THK)						
	4	1	139-2232	4	PLATE						
	5	1	139-2233	8	CLAMP						
M	6	1	6V-8150	4	BOLT (M12X1.75X60MM)						
M	7	1	8T-4244	4	NUT (M12X1.75 THD)						
	8	1	5P-1076	8	WASHER-HARD (4MM THK)						
	9	1	5B-5840	4	SPACER						

M-METRIC PART

HYDRAULIC SYSTEM

177-7452 GUARD GP-CYLINDER (contd.)

i01154094



GRAPHIC #1

g00613477

HYDRAULIC SYSTEM

192-2892 HEAD GP-MOTOR

S/N: CAM1-UP; CBY1-UP

PART OF 187-4127 MOTOR GP-TRAVEL

SMCS-5058

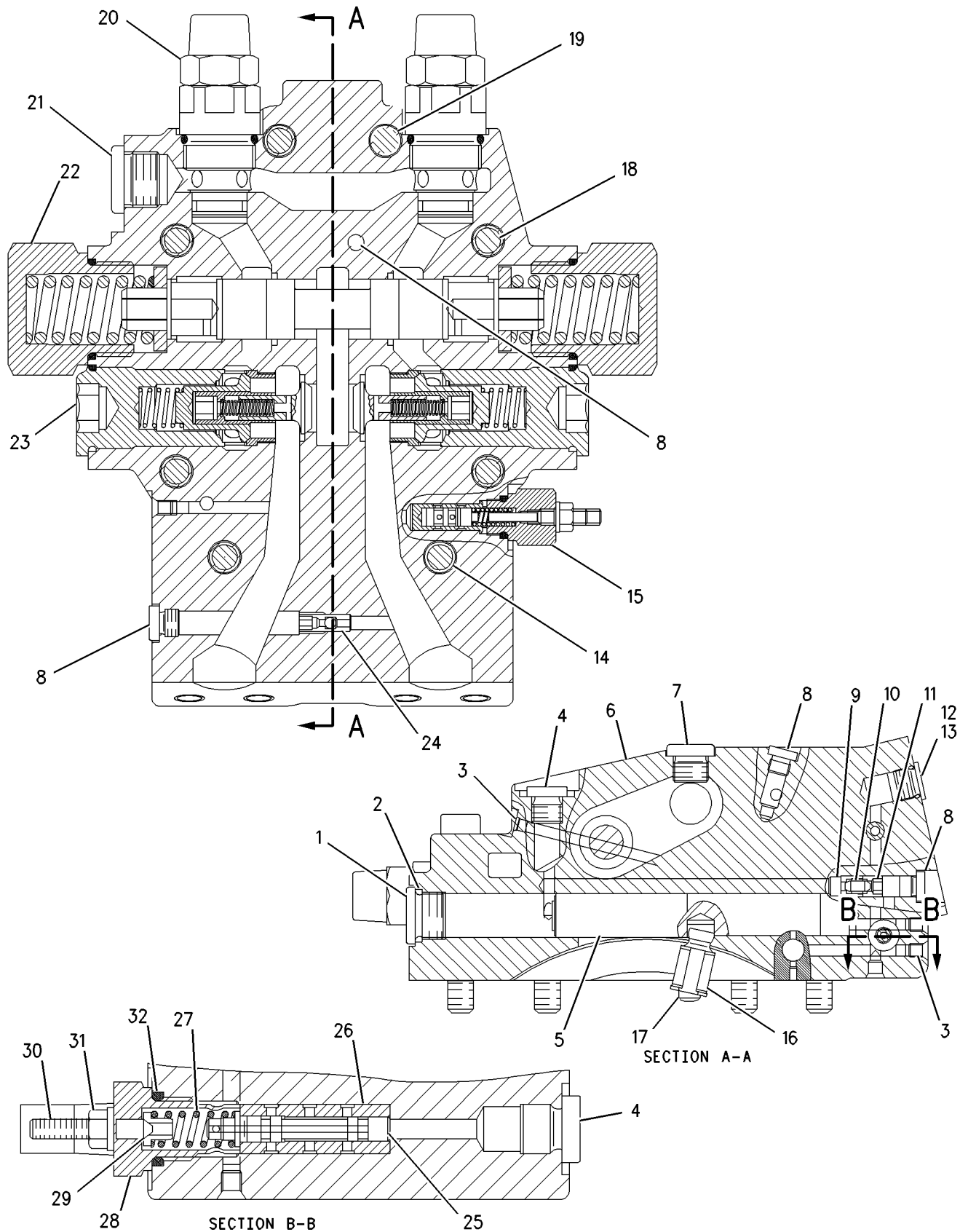
i01502546

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	142-1384	1	PLUG						
	2	1	6V-8352	1	SEAL-O-RING						
	3	1	120-4394	6	PLUG-BREAK OFF						
	4	1	9T-3930	3	PLUG AS						
					(EACH INCLUDES)						
		1	187-8002	1	SEAL						
	5	1	142-1382	1	PISTON						
	6	1	192-2893	1	HEAD						
	7	1	081-3959	1	PLUG						
		1	126-9093	1	SEAL						
	8	1	139-7757	5	PLUG						
					(EACH INCLUDES)						
		1	187-8001	1	SEAL						
	9	1	123-5798	1	SEAT						
	10	1	192-3292	1	PIN						
	11	1	123-5799	1	SEAT						
	12	1	9S-8004	1	PLUG						
	13	1	3J-1907	1	SEAL-O-RING						
M	14	1	095-9804	4	BOLT-SOCKET HEAD (M12X1.75X110MM)						
Y	15	1	194-6973	1	VALVE GP-BRAKE						508
	16	1	142-1383	1	PIN-TRUNNION						
	17	1	194-6972	2	PIN						
M	18	1	139-9423	2	BOLT						
M	19	1	8C-8729	2	BOLT-SOCKET HEAD (M12X1.75X80MM)						
	20	1	194-6982	2	VALVE GP-RELIEF						
					(EACH INCLUDES)						
		1	123-7556	1	CAP						
		1	194-6983	1	KIT-SEAL						
	21	1	190-9752	1	PLUG						
Y	22	1	192-3284	1	VALVE GP-BRAKE						507
Y	23	1	192-3293	2	VALVE GP-CHECK & RELIEF						514
	24	1	191-2708	1	VALVE AS-SHUTTLE						
	25	1	192-2900	1	PISTON-CONTROL						
	26	1	192-2895	1	ADAPTER-BUSHING						
	27	1	123-5791	1	SPRING						
	28	1	194-6970	1	PLUG-ADAPTER						
	29	1	194-6971	1	RETAINER						
	30	1	178-2841	1	SETSCREW						
	31	1	9T-3853	1	LOCKNUT						
	32	1	107-3117	1	SEAL-O-RING						
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											

HYDRAULIC SYSTEM

192 - 2892 HEAD GP - MOTOR (contd.)

i01502546



GRAPHIC #1

g00798328

HYDRAULIC SYSTEM

177-2568 HEAD GP - PUMP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 200-3369 PUMP GP-PISTON

i01520687

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	179-9681	1	BODY AS (DRIVE)	
	2	1	094-1882	11	PLUG	
	3	1	9S-4191	2	PLUG-STRAIGHT THREAD (9/16-18)	
	4	1	3J-1907	3	SEAL-O-RING	
M	5	1	6V-8200	6	BOLT-HEX SOCKET (M12X1.75X35MM)	
	6	1	173-3405	1	COVER	
	7	1	173-3413	1	COVER	
M	8	1	8T-4196	2	BOLT (M10X1.5X35MM)	
	9	1	173-3404	1	COVER	
M	10	1	8T-4136	2	BOLT (M10X1.5X25MM)	
	11	1	173-3398	1	COVER	
M	12	1	7I-2272	2	BOLT (M5X0.8X12MM)	
Y	13	1	111-9916	1	VALVE GP-SOLENOID	581
M	14	1	096-5400	2	SETSCREW-SOCKET	
M	15	1	096-4878	2	NUT	
	16	1	173-3389	1	STOP	
	17	1	185-0347	1	RING-BACKUP	
	18	1	190-7674	1	SEAL-O-RING	
	19	1	191-5599	1	PLUG	
	20	1	173-3384	1	PISTON (PUMP HEAD AC)	
	21	1	190-7673	1	SEAL-O-RING	
	22	1	185-0348	1	RING-BACKUP	
	23	1	173-3390	1	STOP	
	24	1	8F-8733	1	SEAL-O-RING	
	25	1	185-0201	1	PIN AS	
		1	129-7978	1	DOWEL	
	26	1	094-1875	1	DOWEL	
	27	1	094-1881	1	PLATE-SLIDE	
	28	1	150-5797	1	PIN	
	29	1	173-3397	1	LEVER	
	30	1	095-1528	1	SEAL-O-RING	
	31	1	200-3249	1	SPRING	
	32	1	189-9763	3	SEAL-O-RING	
B	33	1	099-3671	1	SPRING	
	34	1	3D-2891	1	BALL	
	35	1	200-3247	1	SPRING	
	36	1	200-3248	1	SPRING	
	37	1	095-1538	1	SEAL-O-RING	
	38	1	095-1527	1	SEAL-O-RING	
	39	1	200-3255	1	NUT	
	40	1	173-3387	1	ADJUSTER	
M	41	1	173-3411	1	SETSCREW (M8X1-6G THD)	
	42	1	200-3254	1	NUT	
	43	1	185-0172	1	RETAINER	
	44	1	095-1519	1	SEAL-O-RING	
	45	1	185-0169	1	GUIDE	
	46	1	191-5707	1	SPOOL AS	
B	47	1	099-6128	2	SHIM (1.90 MM THK)	
B	48	1	099-6126	2	SHIM (1.80 MM THK)	
B	49	1	099-6127	2	SHIM (1.85 MM THK)	
B	50	1	099-3670	2	SHIM (1.95 MM THK)	
B	51	1	099-6125	2	SHIM (1.75 MM THK)	
B	52	1	099-6123	2	SHIM (1.65 MM THK)	
B	53	1	099-6124	2	SHIM (1.70 MM THK)	
B	54	1	099-6122	2	SHIM (1.60 MM THK)	
B	55	1	099-6121	2	SHIM (1.55 MM THK)	

HYDRAULIC SYSTEM

177-2568 HEAD GP - PUMP (contd.)

i01520687

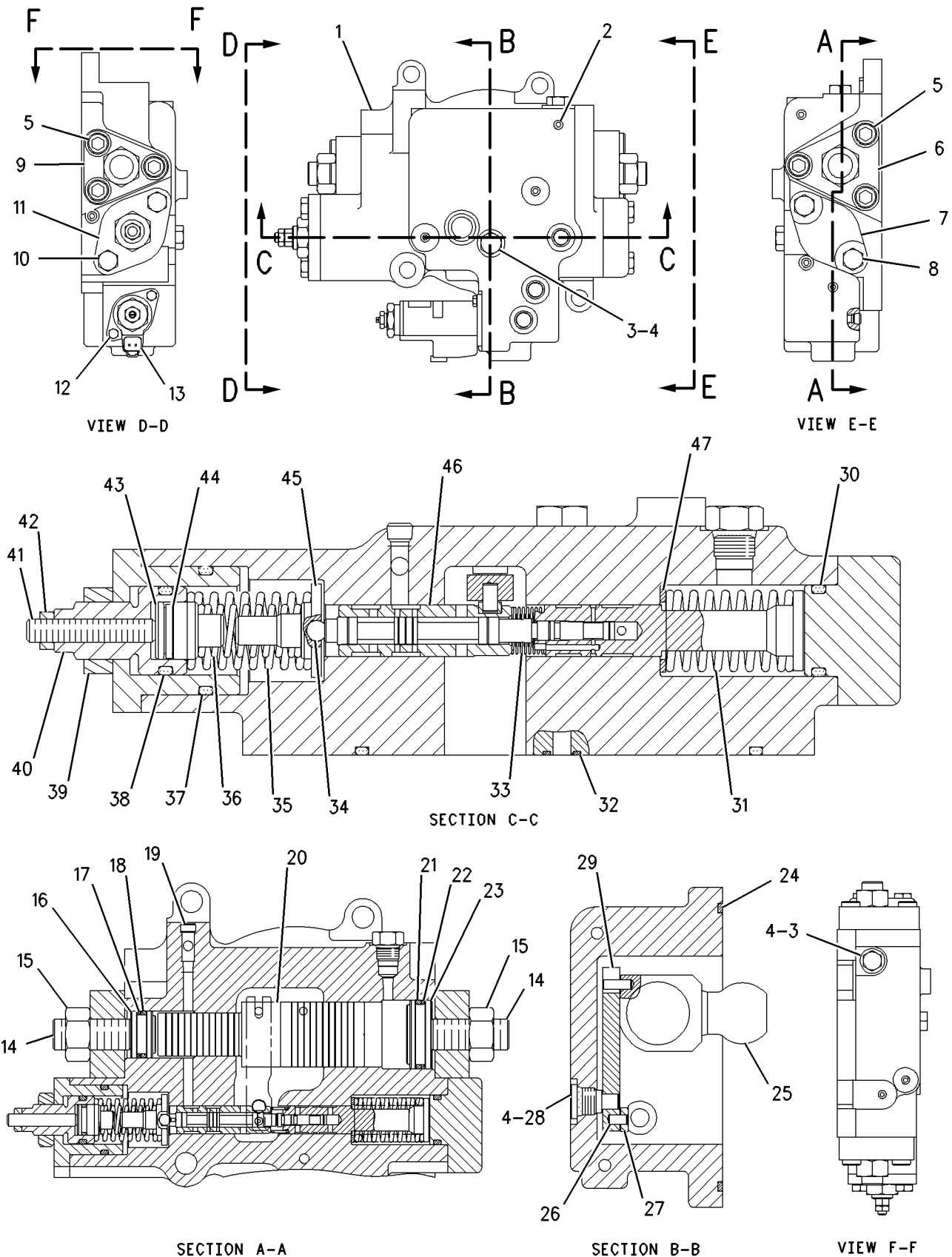
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	56	1	099-6119	2	SHIM (1.45 MM THK)						
B	57	1	099-6118	2	SHIM (1.40 MM THK)						
B	58	1	099-6117	2	SHIM (1.35 MM THK)						
B	59	1	099-6113	2	SHIM (1.25 MM THK)						
B	60	1	099-6115	2	SHIM (1.30 MM THK)						
B	61	1	099-6111	2	SHIM (1.15 MM THK)						
B	62	1	099-6112	2	SHIM (1.20 MM THK)						
B	63	1	099-6109	2	SHIM (1.05 MM THK)						
B	64	1	099-6110	2	SHIM (1.10 MM THK)						
B	65	1	099-6120	2	SHIM (1.50 MM THK)						
B	66	1	099-3669	2	SHIM (1 MM THK)						

B-USE AS REQUIRED
M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

177-2568 HEAD GP - PUMP (contd.)

i01520687



GRAPHIC #1

g00714028

MEMORANDA

HYDRAULIC SYSTEM

177-2569 HEAD GP - PUMP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 200-3369 PUMP GP-PISTON

i01520743

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-9682	1	BODY AS						
	2	1	094-1882	7	PLUG						
	3	1	9S-4191	1	PLUG-STRAIGHT THREAD (9/16-18)						
	4	1	3J-1907	2	SEAL-O-RING						
M	5	1	6V-8200	6	BOLT-HEX SOCKET (M12X1.75X35MM)						
	6	1	173-3405	1	COVER						
	7	1	173-3413	1	COVER						
M	8	1	8T-4196	2	BOLT (M10X1.5X35MM)						
	9	1	173-3404	1	COVER						
M	10	1	8T-4136	2	BOLT (M10X1.5X25MM)						
	11	1	173-3398	1	COVER						
M	12	1	096-5400	2	SETSCREW-SOCKET						
M	13	1	096-4878	2	NUT						
	14	1	173-3389	1	STOP						
	15	1	185-0347	1	RING-BACKUP						
	16	1	190-7674	1	SEAL-O-RING						
	17	1	191-5599	1	PLUG						
	18	1	173-3384	1	PISTON (PUMP HEAD AC)						
	19	1	190-7673	1	SEAL-O-RING						
	20	1	185-0348	1	RING-BACKUP						
	21	1	173-3390	1	STOP						
	22	1	8F-8733	1	SEAL-O-RING						
	23	1	185-0201	1	PIN AS						
		1	129-7978	1	DOWEL						
	24	1	094-1875	1	DOWEL						
	25	1	094-1881	1	PLATE-SLIDE						
	26	1	150-5797	1	PIN						
	27	1	173-3397	1	LEVER						
	28	1	095-1528	1	SEAL-O-RING						
	29	1	200-3249	1	SPRING						
	30	1	189-9763	3	SEAL-O-RING						
	31	1	099-3671	1	SPRING						
	32	1	3D-2891	1	BALL						
	33	1	200-3247	1	SPRING						
	34	1	200-3248	1	SPRING						
	35	1	095-1538	1	SEAL-O-RING						
	36	1	095-1527	1	SEAL-O-RING						
	37	1	200-3255	1	NUT						
	38	1	173-3387	1	ADJUSTER						
M	39	1	173-3411	1	SETSCREW (M8X1-6G THD)						
	40	1	200-3254	1	NUT						
	41	1	185-0172	1	RETAINER						
	42	1	095-1519	1	SEAL-O-RING						
	43	1	185-0169	1	GUIDE						
	44	1	191-5707	1	SPOOL AS						
B	45	1	099-6128	2	SHIM (1.90 MM THK)						
B		1	099-6126	2	SHIM (1.80 MM THK)						
B		1	099-6127	2	SHIM (1.85 MM THK)						
B		1	099-3670	2	SHIM (1.95 MM THK)						
B		1	099-6125	2	SHIM (1.75 MM THK)						
B		1	099-6123	2	SHIM (1.65 MM THK)						
B		1	099-6124	2	SHIM (1.70 MM THK)						
B		1	099-6122	2	SHIM (1.60 MM THK)						
B		1	099-6121	2	SHIM (1.55 MM THK)						
B		1	099-6119	2	SHIM (1.45 MM THK)						
B		1	099-6118	2	SHIM (1.40 MM THK)						

HYDRAULIC SYSTEM

177-2569 HEAD GP - PUMP (contd.)

i01520743

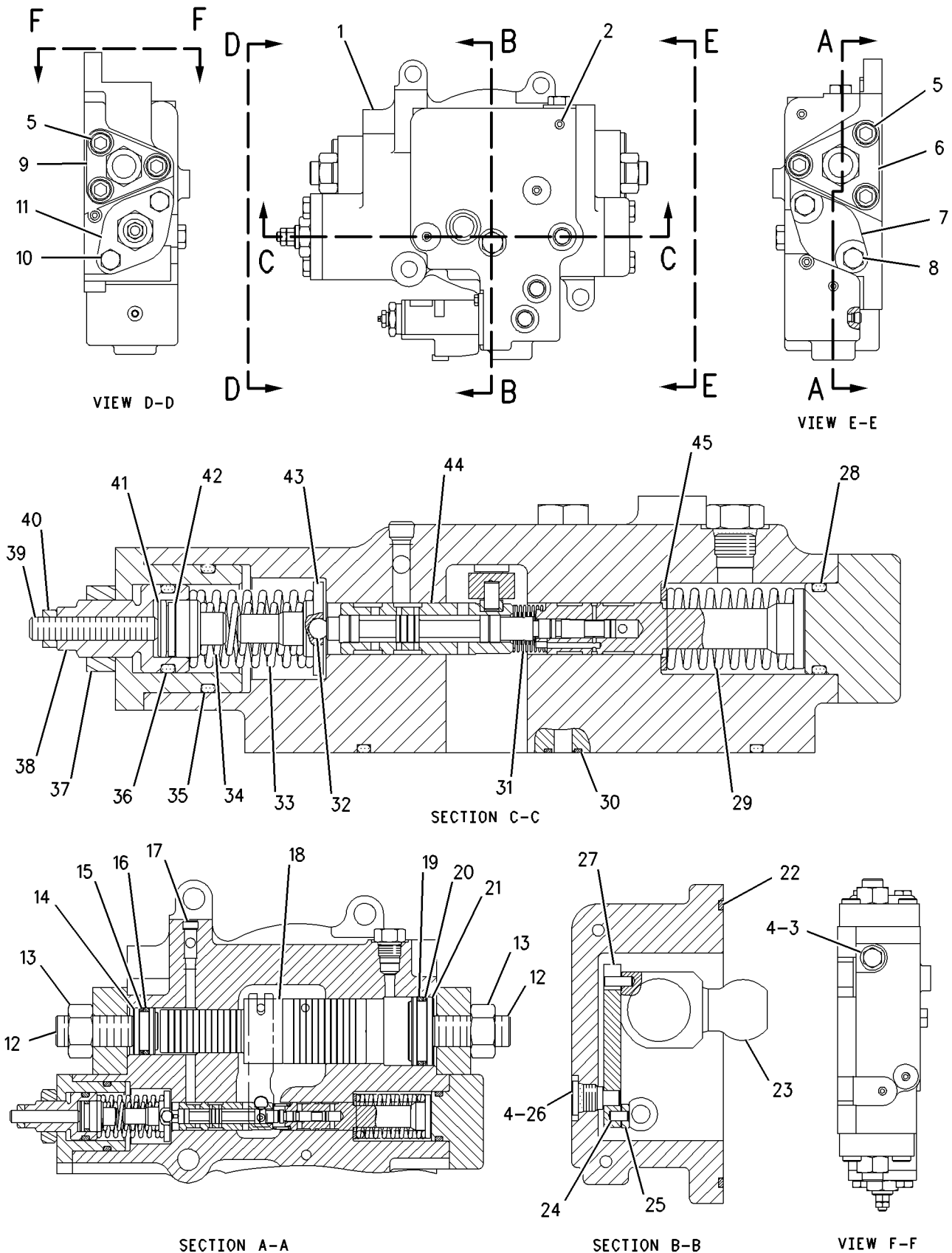
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B		1	099-6117	2	SHIM (1.35 MM THK)						
B		1	099-6113	2	SHIM (1.25 MM THK)						
B		1	099-6115	2	SHIM (1.30 MM THK)						
B		1	099-6111	2	SHIM (1.15 MM THK)						
B		1	099-6112	2	SHIM (1.20 MM THK)						
B		1	099-6109	2	SHIM (1.05 MM THK)						
B		1	099-6110	2	SHIM (1.10 MM THK)						
B		1	099-6120	2	SHIM (1.50 MM THK)						
B		1	099-3669	2	SHIM (1 MM THK)						

B-USE AS REQUIRED
M-METRIC PART

HYDRAULIC SYSTEM

177-2569 HEAD GP - PUMP (contd.)

i01520743



GRAPHIC #1

g00714194

HYDRAULIC SYSTEM

186-3942 HYDRAULIC AR

S/N: BPH1-UP

PART OF 192-2311 GENERAL AR

SMCS-5050

i01512831

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	176-4624	1	LINES GP-FRONT						386
Y	187-7159	1	LINES GP-PILOT						406
Y	187-7160	1	LINES GP-PILOT						410
Y	176-4626	1	LINES GP-PUMP						454
Y	176-4625	1	LINES GP-RETURN						456
Y	196-3651	1	LINES GP-SWING MOTOR						468
Y	176-4620	1	LINES GP-TRAVEL MOTOR						470
Y	142-7668	1	MOUNTING GP-MAIN CONTROL VALVE						488
Y	171-9103	1	PUMP & MTG GP-MAIN HYDRAULIC						489
Y	176-4616	1	TANK & MTG GP-HYDRAULIC						504
Y	177-2700	1	VALVE GP-MAIN CONTROL						540
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

186-3943 HYDRAULIC AR

S/N: CBY1-UP

PART OF 192-2315 GENERAL AR

SMCS-5050

i01506383

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	187-7165	1	LINES GP-FRONT						392
Y	187-7163	1	LINES GP-PILOT						418
Y	187-7164	1	LINES GP-PILOT						424
Y	187-7166	1	LINES GP-PILOT						432
Y	176-4626	1	LINES GP-PUMP						454
Y	176-4625	1	LINES GP-RETURN						456
Y	196-3651	1	LINES GP-SWING MOTOR						468
Y	187-7161	1	LINES GP-TRAVEL MOTOR						474
Y	142-7668	1	MOUNTING GP-MAIN CONTROL VALVE						488
Y	171-9103	1	PUMP & MTG GP-MAIN HYDRAULIC						489
Y	176-4616	1	TANK & MTG GP-HYDRAULIC						504
Y	197-0185	1	VALVE GP-CONTROL						528

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

196-3255 HYDRAULIC AR

S/N: CAM1-UP

PART OF 192-2313 GENERAL AR

SMCS-5050

i01506291

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	176-4624	1	LINES GP-FRONT						386
Y	187-7159	1	LINES GP-PILOT						406
Y	187-7160	1	LINES GP-PILOT						410
Y	176-4626	1	LINES GP-PUMP						454
Y	176-4625	1	LINES GP-RETURN						456
Y	196-3651	1	LINES GP-SWING MOTOR						468
Y	187-7161	1	LINES GP-TRAVEL MOTOR						474
Y	142-7668	1	MOUNTING GP-MAIN CONTROL VALVE						488
Y	171-9103	1	PUMP & MTG GP-MAIN HYDRAULIC						489
Y	176-4616	1	TANK & MTG GP-HYDRAULIC						504
Y	177-2700	1	VALVE GP-MAIN CONTROL						540

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

161-3752 LEVER GP-HYD CONTROLS LOCKOUT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

HYDRAULIC LOCK

PART OF 192-2332, 203-9143 OPERATOR AR

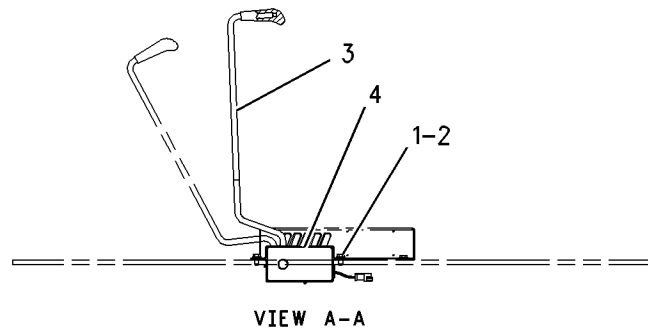
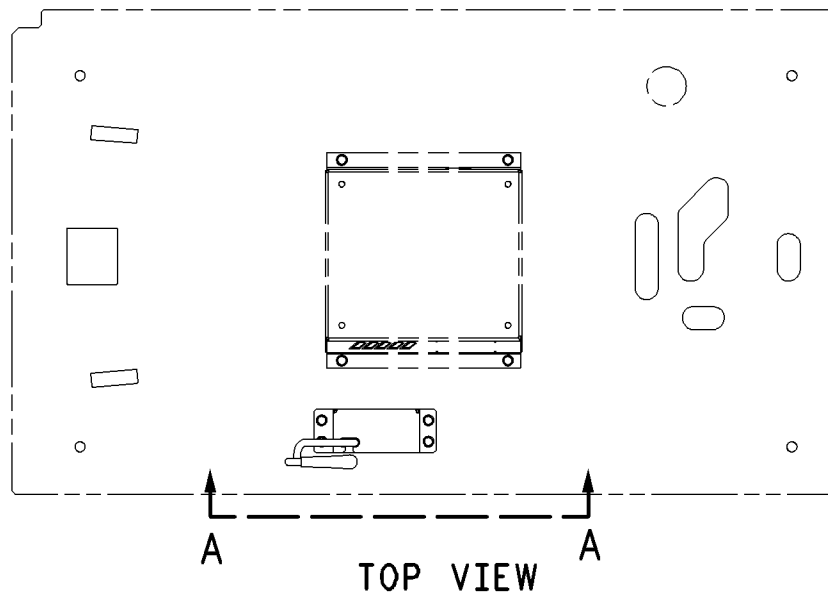
SMCS-4805, 5050

i01353900

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4137	4	BOLT (M10X1.50X20MM)						356
	2	1	8T-4121	4	WASHER-HARD (2.5MM THK)						
Y	3	1	167-7080	1	LEVER GP-HYD CONTROLS LOCKOUT						356
	4	1	178-5508	1	COVER						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00674876

MEMORANDA

HYDRAULIC SYSTEM

167-7080 LEVER GP-HYD CONTROLS LOCKOUT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 161-3752 LEVER GP-HYD CONTROLS LOCKOUT

SMCS-4805, 5050

i01547610

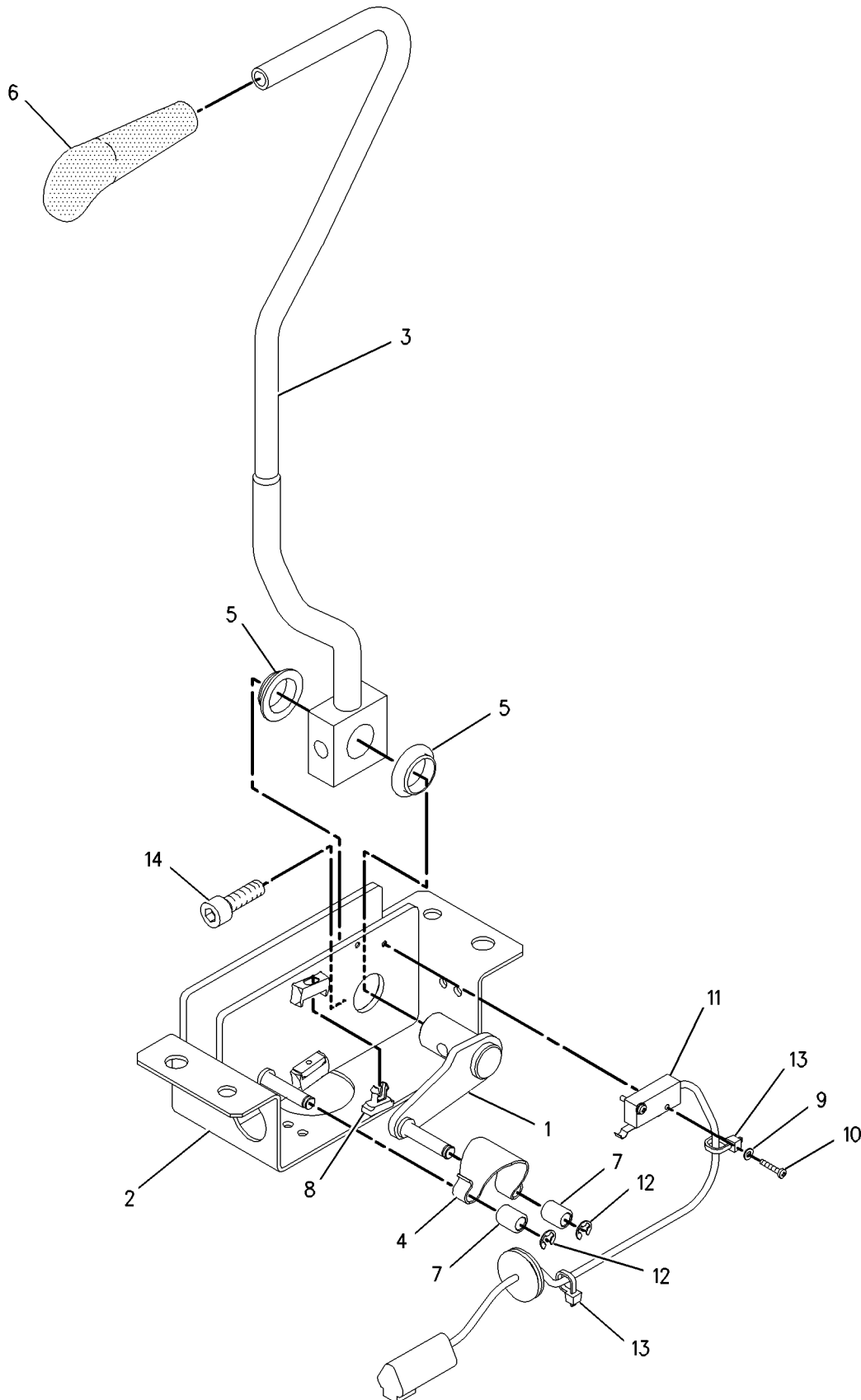
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-5504	1	PLATE AS						
	2	1	178-5509	1	BOX AS						
	3	1	178-5514	1	LEVER AS						
	4	1	178-5517	1	SPRING						
	5	1	178-5518	2	BUSHING						
	6	1	178-5528	1	KNOB						
	7	1	178-5649	2	SPACER						
	8	1	178-5651	2	STOP						
	9	1	096-5962	2	WASHER-HARD (3.4X7X0.8MM THK)						
M	10	1	120-9027	2	SCREW-PAN HEAD						
	11	1	163-6785	1	SWITCH AS-LIMIT (HYD CONTROL LOCKOUT LEVER)						
		1	102-8803	1	KIT-RECEPTACLE (3 PIN)						
		1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)						
		1	3S-2093	2	STRAP-CABLE						
D		1	5P-5998		TUBE (.3M)						
	12	1	5D-4822	2	RING-RETAINING						
	13	1	3S-2093	2	STRAP-CABLE						
M	14	1	9X-6032	1	BOLT-SOCKET HEAD (M10X1.5X30MM)						

D-ORDER BY THE METER
M-METRIC PART

HYDRAULIC SYSTEM

167-7080 LEVER GP-HYD CONTROLS LOCKOUT (contd.)

i01547610



GRAPHIC #1

g00794172

HYDRAULIC SYSTEM

173-8071 LINES GP-AUXILIARY HYDRAULIC

S/N: BPH1-UP; CAM1-UP

HIGH PRESSURE

FOR USE WITH 2.95M (9.68FEET) S-FAMILY STICK
AN ATTACHMENT

SMCS-5057

i01547168

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	173-8072	1	LINES GP-AUXILIARY HYDRAULIC						360
	179-5125	1	LINES GP-AUXILIARY HYDRAULIC						
Y-SEPARATE ILLUSTRATION									

MEMORANDA

HYDRAULIC SYSTEM

173-8072 LINES GP-AUXILIARY HYDRAULIC

S/N: BPH1-UP; CAM1-UP

HIGH PRESSURE

PART OF 173-8071 LINES GP-AUXILIARY HYDRAULIC

FOR USE WITH 2.95M (9.68 FEET) S-FAMILY STICK

AN ATTACHMENT

SMCS-5057

i01540564

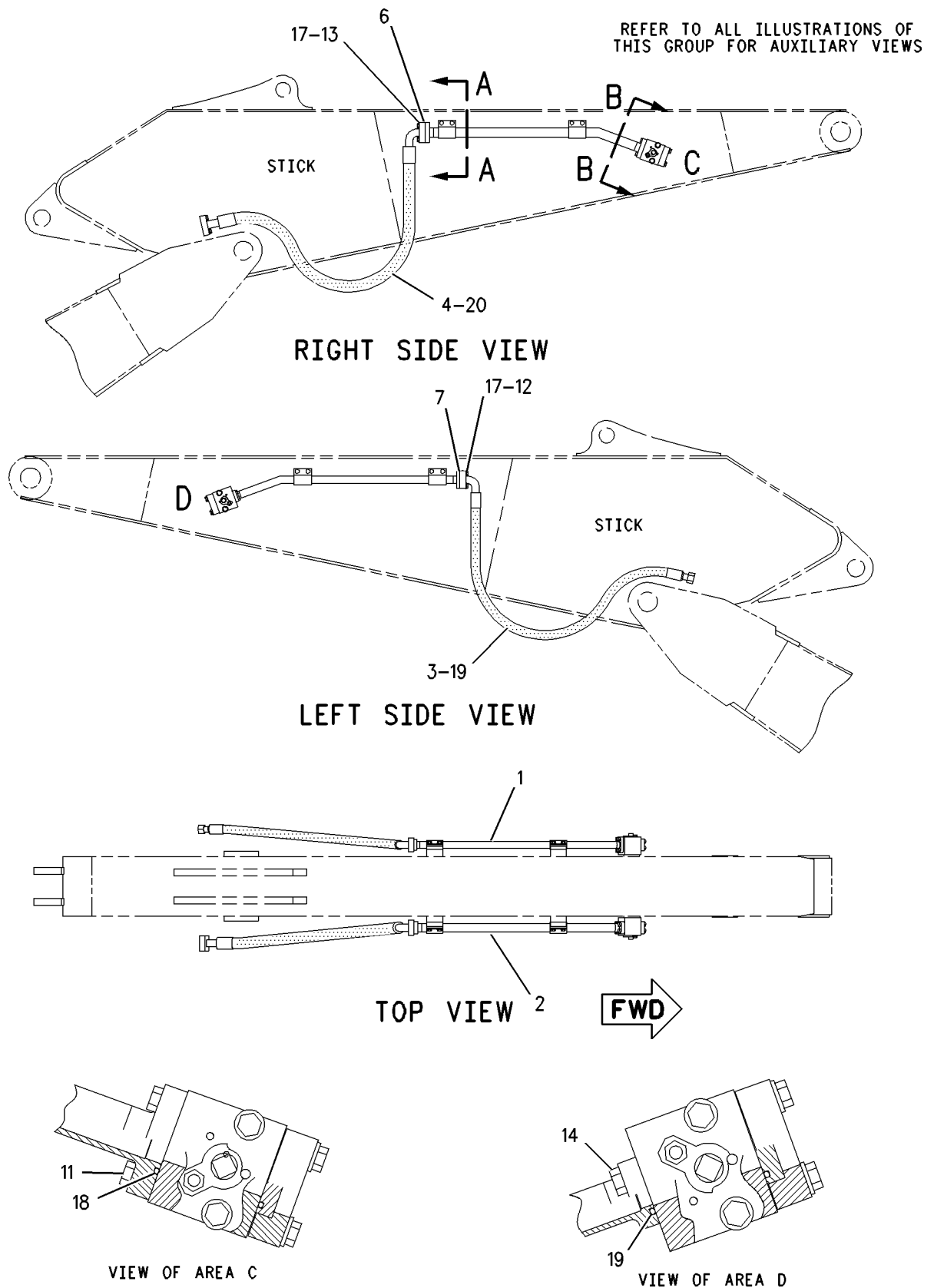
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	121-1903	1	TUBE AS						
	2	1	142-6583	1	TUBE AS						
I	3	1	121-1777	1	HOSE AS						
I	4	1	121-1962	1	HOSE AS						
	5	2	173-7992	2	VALVE GP-MANUAL BALL						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	9S-4191	1	PLUG-STRAIGHT THREAD						
		2	119-1353	1	HANDLE (65MM HIGH/155MM LONG)						
	6	1	1P-5767	4	FLANGE-HALF						
	7	1	6V-0400	2	FLANGE-HALF						
	8	2	7Y-4538	4	CLAMP-HALF						
	9	2	173-7916	4	CLAMP-HALF						
M	10	2	8T-4139	8	BOLT (M12X1.75X30MM)						
M	11	1	8T-4183	4	BOLT (M12X1.75X40MM)						
M	12	1	8T-4184	4	BOLT (M12X1.75X45MM)						
M	13	1	8T-4194	8	BOLT (M12X1.75X50MM)						
M	14	1	8T-4956	4	BOLT (M12X1.75X35MM)						
M	15	2	8T-6685	4	BOLT (M10X1.50X110MM)						
	16	2	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
	17	1, 2	8T-4223	20	WASHER-HARD (13.5X25.5X3MM THK)						
	18	1	1P-3705	1	SEAL-RECTANGULAR						
	19	1	1P-3703	2	SEAL-RECTANGULAR						
	20	1	1P-3704	2	SEAL-RECTANGULAR						
BM	21	2	8T-4183	12	BOLT (M12X1.75X40MM)						
BM	22	2	7X-2543	6	BOLT (M10X1.5X120MM)						
	25	2	197-2360	2	PLATE						
B	26	2	197-2361	3	PLATE						
B	27	2	197-2362	3	PLATE						

B-USE AS REQUIRED
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART

HYDRAULIC SYSTEM

173-8072 LINES GP-AUXILIARY HYDRAULIC (contd.)

i01540564



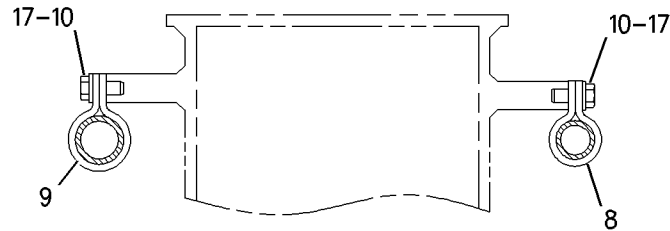
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g00800528

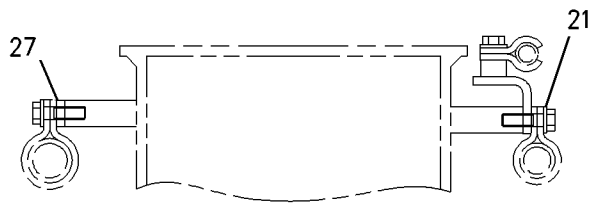
HYDRAULIC SYSTEM

173-8072 LINES GP-AUXILIARY HYDRAULIC (contd.)

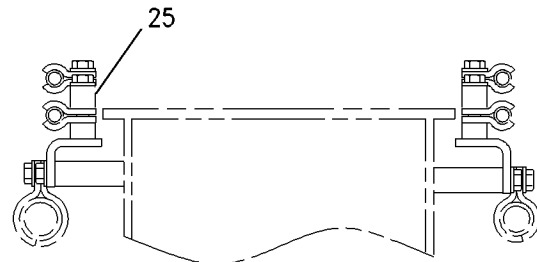
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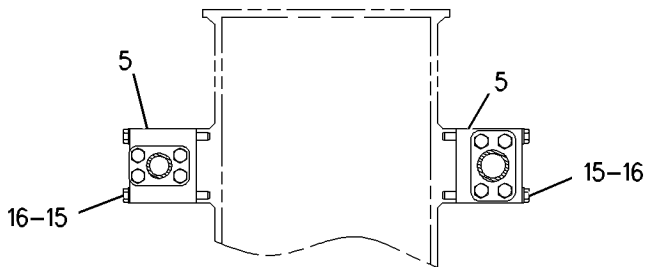
SECTION A-A



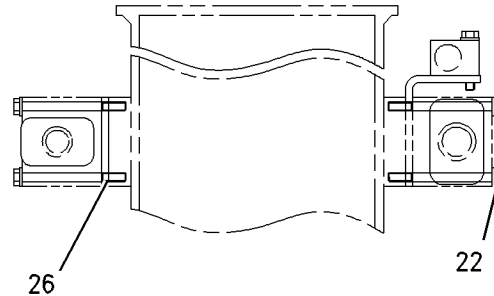
SECTION A-A
OPTIONAL DESIGN



SECTION A-A
OPTIONAL DESIGN



SECTION B-B



SECTION B-B
OPTIONAL DESIGN

MEMORANDA

HYDRAULIC SYSTEM

179-5094 LINES GP-AUXILIARY HYDRAULIC

S/N: BPH1-UP; CAM1-UP
REACH BOOM, HIGH PRESSURE
AN ATTACHMENT

SMCS-5057

i01458445

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-5097	1	TUBE AS						
	2	1	179-5096	1	TUBE AS						
	3	1	179-5095	1	TUBE AS						
	4	1	179-5098	1	TUBE AS						
	5	1	179-5249	2	SUPPORT AS						
	6	1	8T-4223	28	WASHER-HARD (13.5X25.5X3MM THK)						
	7	1	153-8798	2	PLATE						
	8	1	1P-3705	1	SEAL-RECTANGULAR						
	9	1	5K-9090	3	SEAL-O-RING						
	10	1	7Y-4538	8	CLAMP-HALF						
	11	1	173-7916	8	CLAMP-HALF						
M	12	1	8T-4910	8	BOLT (M12X1.75X60MM)						
M	13	1	8T-4184	8	BOLT (M12X1.75X45MM)						
M	14	1	8T-4139	12	BOLT (M12X1.75X30MM)						
M	15	1	8T-4183	4	BOLT (M12X1.75X40 MM)						
J	16	1	153-8867	2	CLIP						
J	17	1	096-5766	1	CLAMP (75MM)						
	18	1	187-9851	4	PLATE						
I	19	1	5I-7461	1	HOSE AS						
	20	1	193-6544	1	HOSE AS						
	21	1	1P-3704	2	SEAL-RECTANGULAR						
L	22	1	153-8800	2	PLATE						
N	23	1	153-8800	1	PLATE						
P	24	1	153-8867	2	CLIP						
P	25	1	096-5766	1	CLAMP (75MM)						
P	26	1	153-8800	2	PLATE						

I-SEE HOSE FABRICATION GUIDE

J-USED WITH MEDIUM PRESSURE LINES AND DRAIN LINES

L-USED WITH MEDIUM PRESSURE LINES AND QUICK COUPLER LINES

M-METRIC PART

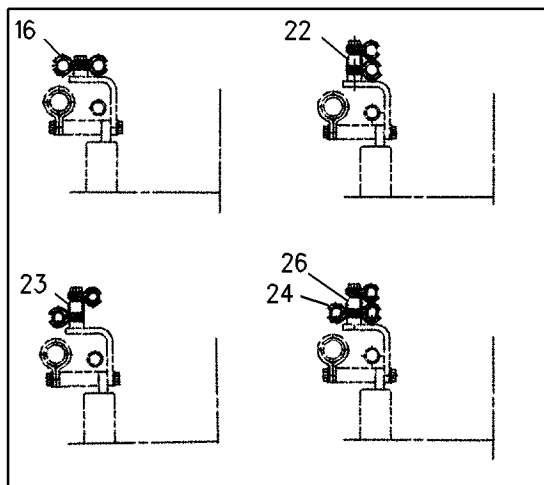
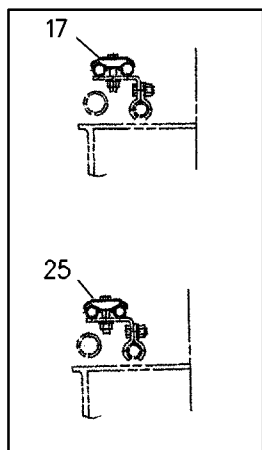
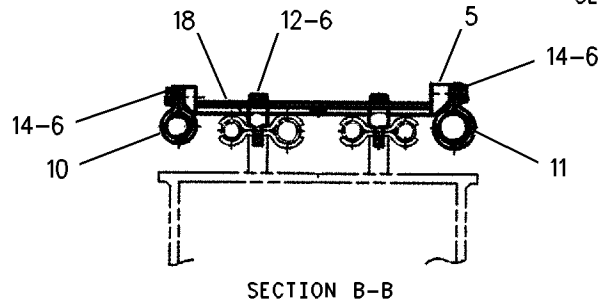
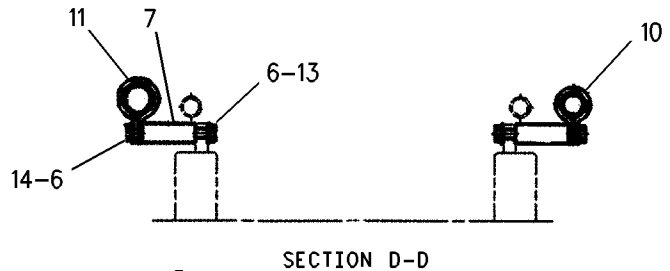
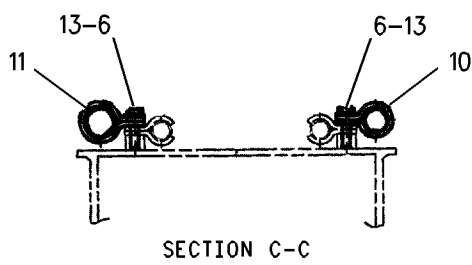
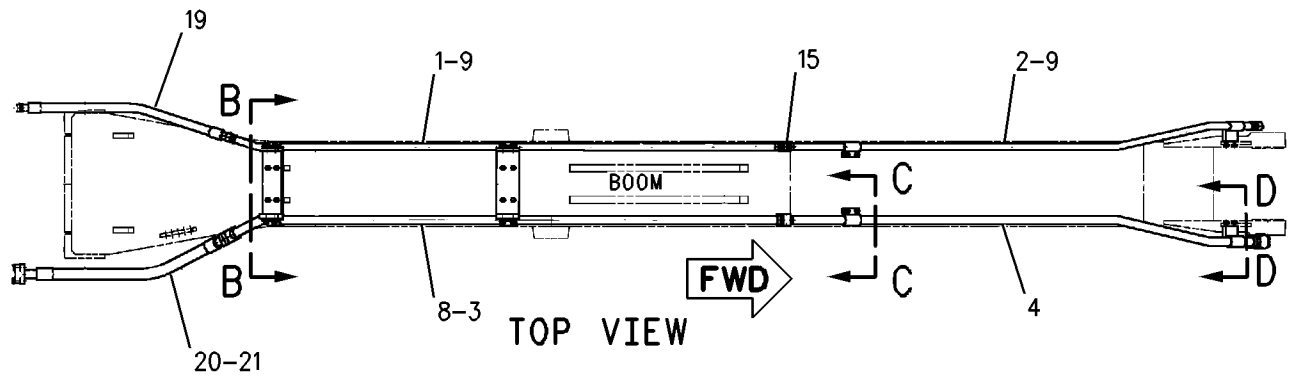
N-USED WITH QUICK COUPLER LINES AND DRAIN LINES

P-USED WITH MEDIUM PRESSURE LINES, QUICK COUPLER LINES, AND DRAIN LINES

HYDRAULIC SYSTEM

179-5094 LINES GP-AUXILIARY HYDRAULIC (contd.)

i01458445



GRAPHIC #1

g00762494

HYDRAULIC SYSTEM

179-5100 LINES GP-AUXILIARY HYDRAULIC

S/N: BPH1-UP; CAM1-UP
REACH-BOOM/MEDIUM PRESSURE
AN ATTACHMENT

SMCS-5057

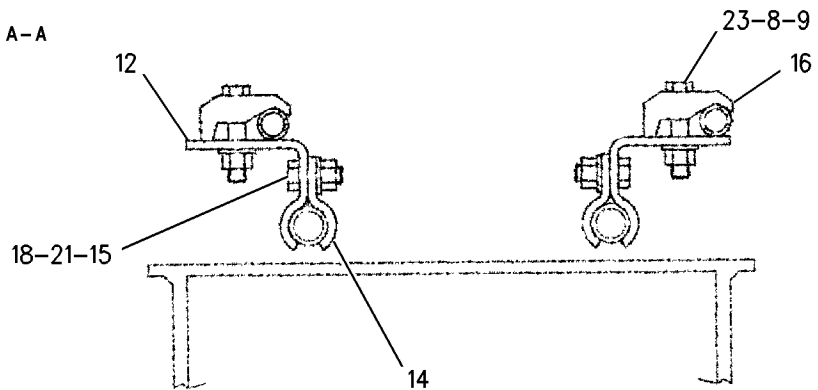
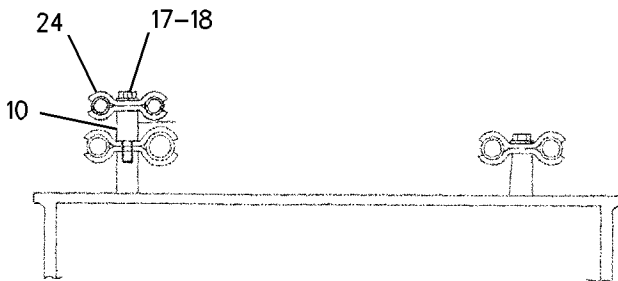
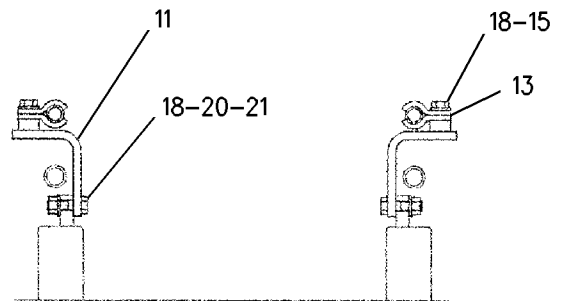
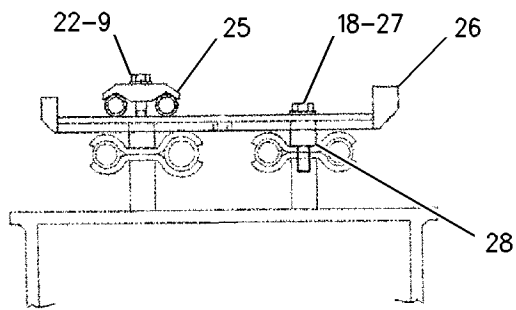
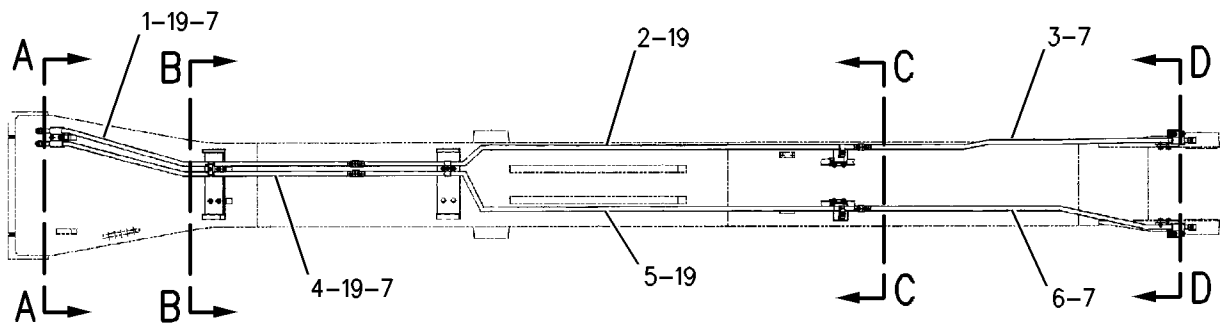
i01512892

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-5101	1	TUBE AS						
	2	1	179-5102	1	TUBE AS						
	3	1	187-9961	1	TUBE AS						
	4	1	179-5109	1	TUBE AS						
	5	1	179-5110	1	TUBE AS						
	6	1	179-5111	1	TUBE AS						
	7	1	6V-8398	4	SEAL -O -RING						
M	8	1	8T-6466	2	BOLT (M10X1.50X60MM)						
	9	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
	10	1	179-5090	1	PLATE						
	11	1	173-7997	2	SUPPORT AS						
	12	1	187-9861	2	CLIP (SLOT)						
	13	1	149-1738	4	CLIP (SLOT)						
	14	1	7Y-4868	2	CLIP (SLOT)						
M	15	1	8T-4139	8	BOLT (M12X1.75X30MM)						
	16	1	093-1291	2	CLAMP						
M	17	1	8T-6868	2	BOLT (M12X1.75X80MM)						
	18	1	8T-4223	22	WASHER-HARD (13.5X25.5X3MM THK)						
	19	1	4I-8888	4	SEAL-RECTANGULAR						
M	20	1	8T-4184	4	BOLT (M12X1.75X45MM)						
M	21	1	8T-4244	8	NUT (M12X1.75 THD)						
M	22	1	085-8091	2	BOLT (M10X1.5X55MM)						
M	23	1	8T-4133	2	NUT (M10X1.5 THD)						
	24	1	153-8867	2	CLIP (SLOT)						
	25	1	096-5766	2	CLAMP (75MM)						
	26	1	179-5249	2	SUPPORT AS						
M		1	8T-4133	1	NUT (M10X1.5 THD)						
M	27	1	8T-4910	8	BOLT (M12X1.75X60MM)						
	28	1	187-9851	4	PLATE						
M-METRIC PART											

HYDRAULIC SYSTEM

179-5100 LINES GP-AUXILIARY HYDRAULIC (contd.)

i01512892



GRAPHIC #1

g00786062

HYDRAULIC SYSTEM

179-5126 LINES GP-AUXILIARY HYDRAULIC

S/N: BPH1-UP; CAM1-UP

MEDIUM PRESSURE

FOR USE WITH 2.9M (9.51 FEET) S-FAMILY STICK
AN ATTACHMENT

SMCS-5057

i01458767

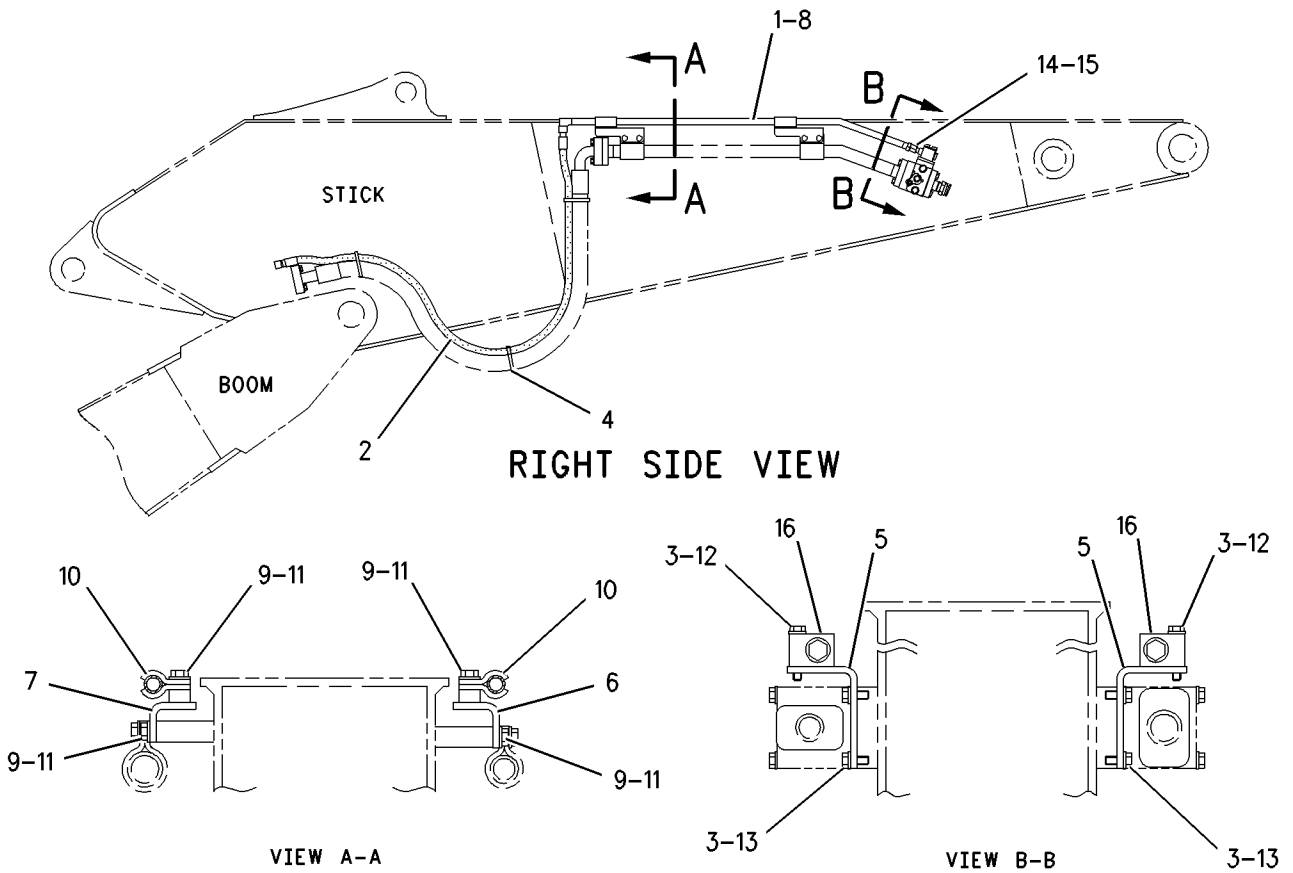
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	179-5127	2	TUBE AS	
	2	1	179-5128	2	HOSE AS	
	3	1	8T-4121	8	WASHER-HARD (11X21X2.5MM THK)	
	4	1	6K-0806	6	STRAP-CABLE	
	5	1	187-9977	2	PLATE	
	6	1	187-9978	2	SUPPORT AS	
	7	1	187-9981	2	SUPPORT AS	
	8	1	6V-8398	4	SEAL-O-RING	
	9	1	8T-4223	16	WASHER-HARD (13.5X25.5X3MM THK)	
	10	1	149-1738	8	CLIP	
M	11	1	8T-4139	16	BOLT (M12X1.75X30MM)	
M	12	1	8T-6466	4	BOLT (M10X1.50X60MM)	
M	13	1	8T-4136	4	BOLT (M10X1.5X25MM)	
	14	1	7X-3164	2	ADAPTER-SWIVEL	
	15	1	3K-0360	2	SEAL-O-RING	
	16	1	6C-6760	2	MANIFOLD	

M-METRIC PART

HYDRAULIC SYSTEM

179-5126 LINES GP-AUXILIARY HYDRAULIC (contd.)

i01458767



GRAPHIC #1

g00763961

HYDRAULIC SYSTEM

165-5710 LINES GP-BOOM

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-5057

i01214837

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-1674	22	CLIP						
	2	1	138-8701	1	TUBE AS						
	3	1	165-5711	4	TUBE AS						
	4	1	138-8702	1	TUBE AS						
	5	1	165-5712	1	TUBE AS						
	6	1	165-5713	6	TUBE AS						
	7	1	165-5714	1	TUBE AS						
M	8	1	8T-4956	38	BOLT (M12X1.75X35MM)						
	9	1	129-6056	1	SUPPORT AS						
	10	1	129-6055	1	SUPPORT AS						
	11	1	138-8714	1	TUBE AS						
	12	1	7Y-4538	10	CLAMP-HALF						
M	13	1	8T-4139	12	BOLT (M12X1.75X30MM)						
	14	1	8T-4223	54	WASHER-HARD (3MM THK)						
	15	1	108-7550	2	CLIP						
M	16	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	17	1	1P-5767	2	FLANGE-HALF						
I	18	1	138-8712	1	HOSE AS						
	19	1	1P-3704	2	SEAL-RECTANGULAR (38.2MM ID)						
M	20	1	8T-4910	4	BOLT (M12X1.75X60MM)						
I	21	1	138-8710	1	HOSE AS						
M	22	1	8T-4194	4	BOLT (M12X1.75X50MM)						
	23	1	8T-4121	4	WASHER-HARD (2.5MM THK)						
	24	1	6V-9746	18	SEAL-O-RING (18.94MM ID)						
	25	1	5K-9090	5	SEAL-O-RING (23.52MM ID)						
	26	1	7Y-4868	16	CLIP						
	27	1	131-5560	1	BAR						

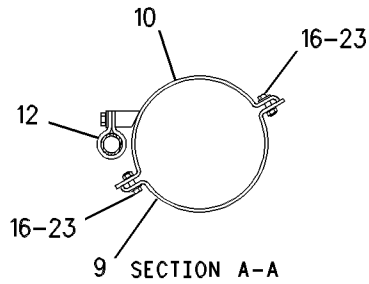
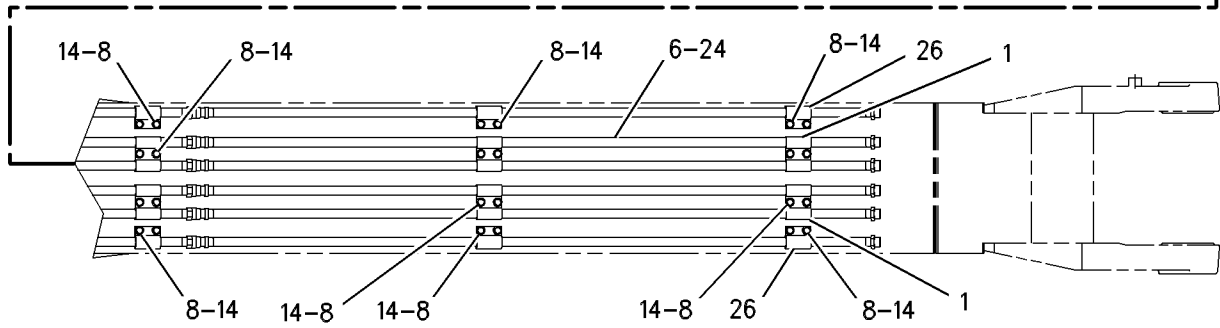
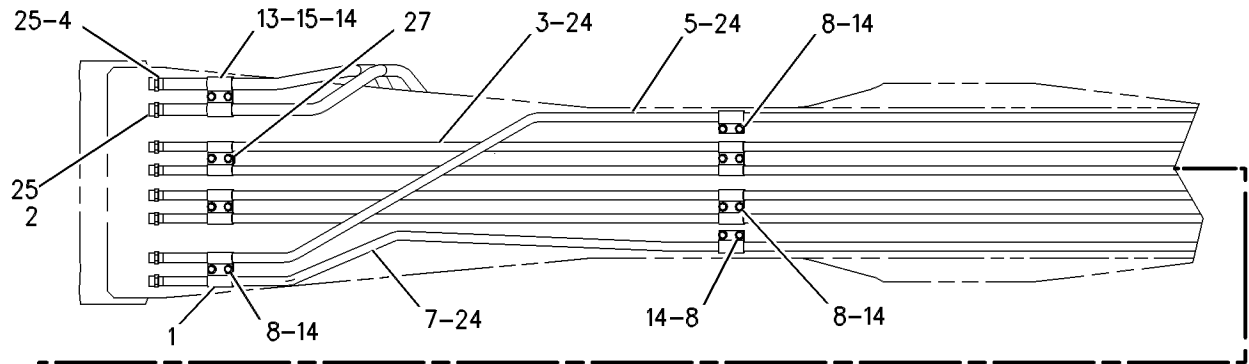
I-SEE HOSE FABRICATION GUIDE

M-METRIC PART

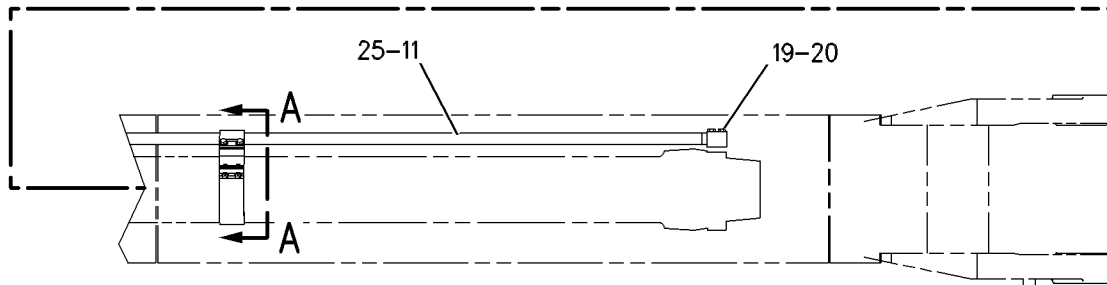
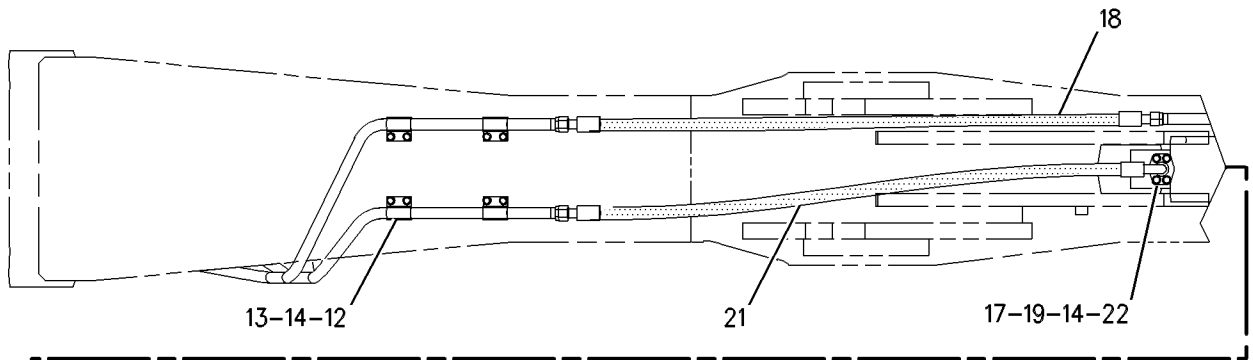
HYDRAULIC SYSTEM

165-5710 LINES GP-BOOM (contd.)

i01214837



TOP VIEW



BOTTOM VIEW

GRAPHIC #1

g00655558

HYDRAULIC SYSTEM

176-4633 LINES GP-BOOM

S/N: BPH1-UP; CAM1-UP
PART OF 190-2320 BOOM AR-1 PIECE LONG
AN ATTACHMENT

SMCS-5057

i01411824

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	184-9197	2	TUBE AS	
	2	1	6V-9746	8	SEAL-O-RING (18.94MM ID)	
	3	1	184-9198	2	TUBE AS	
	4	1	5K-9090	6	SEAL-O-RING (23.52MM ID)	
	5	1	184-9199	1	TUBE AS	
	6	1	184-9200	1	TUBE AS	
	7	1	184-9201	1	TUBE AS	
	8	1	184-9202	1	TUBE AS	
I	9	1	7Y-8036	2	HOSE AS	
	10	1	1P-3704	1	SEAL-RECTANGULAR	
	11	1	6I-6721	1	ELBOW	
	12	1	8T-4223	24	WASHER-HARD (13.5X25.5X3MM THK)	
M	13	1	8T-4648	4	BOLT (M12X1.75X70MM)	
	14	1	4I-1674	6	CLIP	
M	15	1	8T-4139	20	BOLT (M12X1.75X30MM)	
	16	1	108-7550	6	CLIP	
	17	1	7Y-4868	8	CLIP	

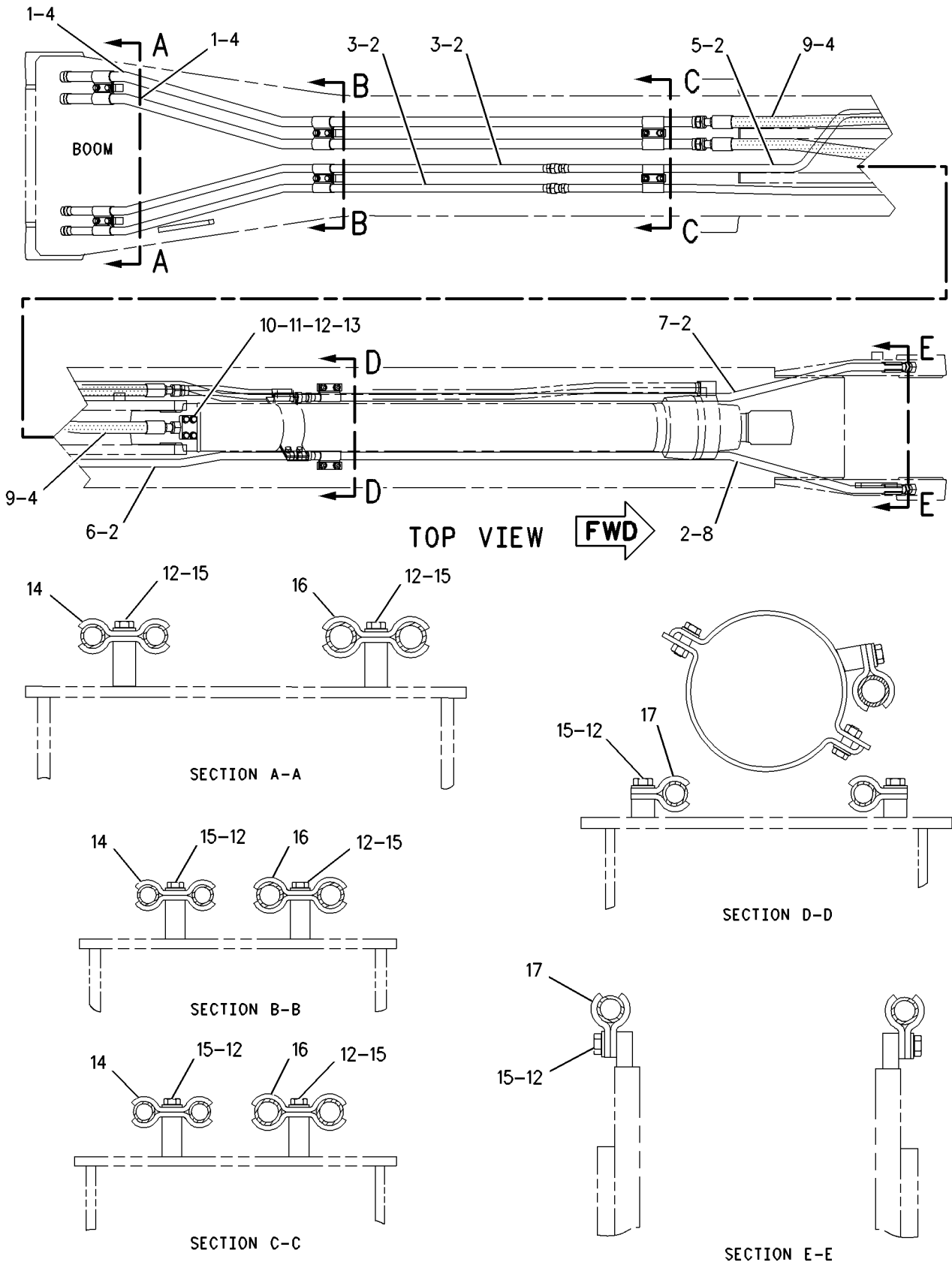
I - SEE HOSE FABRICATION GUIDE

M - METRIC PART

HYDRAULIC SYSTEM

176-4633 LINES GP-BOOM (contd.)

i01411824



GRAPHIC #1

g00736012

HYDRAULIC SYSTEM

118-4117 LINES GP-BOOM CYLINDER-LH

S/N: BPH1-UP; CAM1-UP

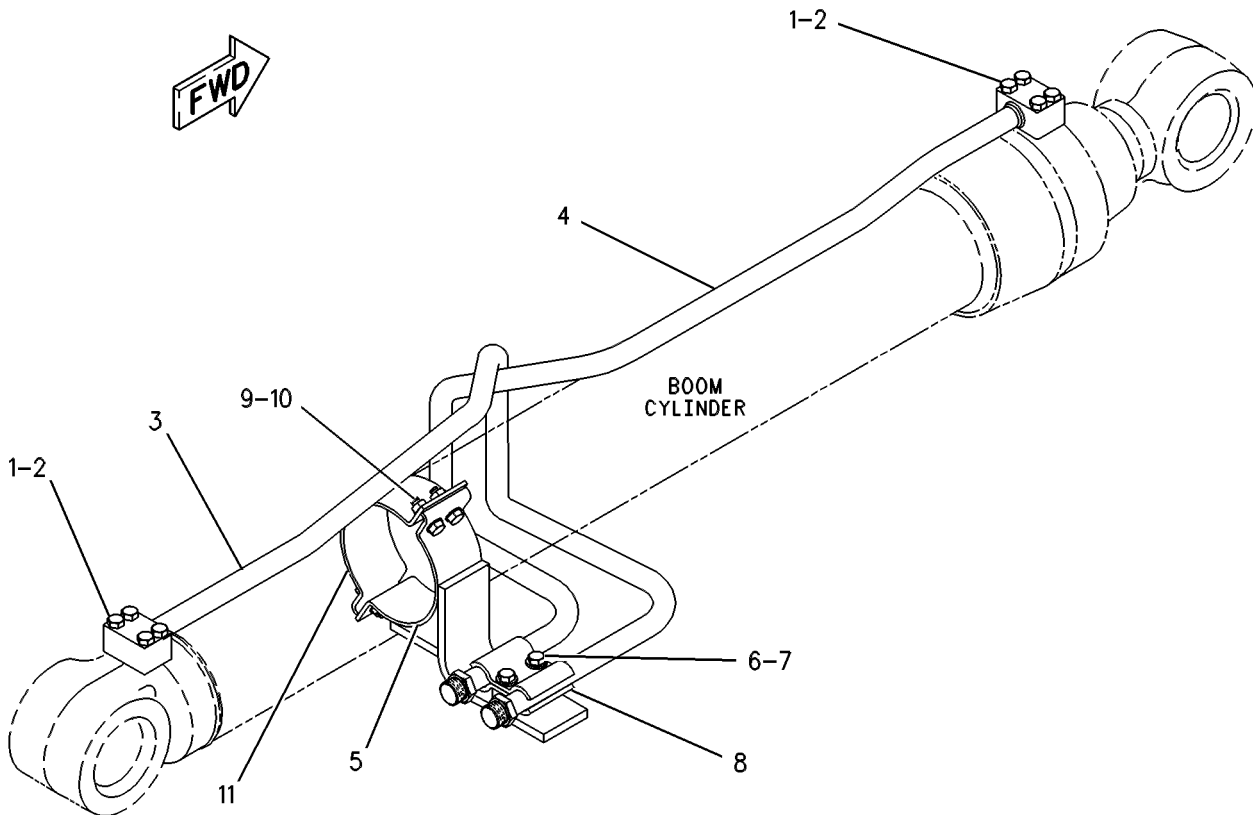
PART OF 205-1182 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i00617922

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4185	8	BOLT (M10X1.50X50MM)						
	2	1	1P-3703	2	SEAL-RECTANGULAR (31.86MM ID)						
	3	1	124-1175	1	TUBE AS						
	4	1	124-1099	1	TUBE AS						
	5	1	124-1180	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	6	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	7	1	8T-4223	2	WASHER-HARD (3MM THK)						
	8	1	4I-1674	2	CLIP						
M	9	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	10	1	8T-4121	4	WASHER (2.5MM THK)						
	11	1	119-2382	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						

M-METRIC PART



GRAPHIC #1

g00263742

HYDRAULIC SYSTEM

118-4119 LINES GP-BOOM CYLINDER-RH

S/N: BPH1-UP; CAM1-UP

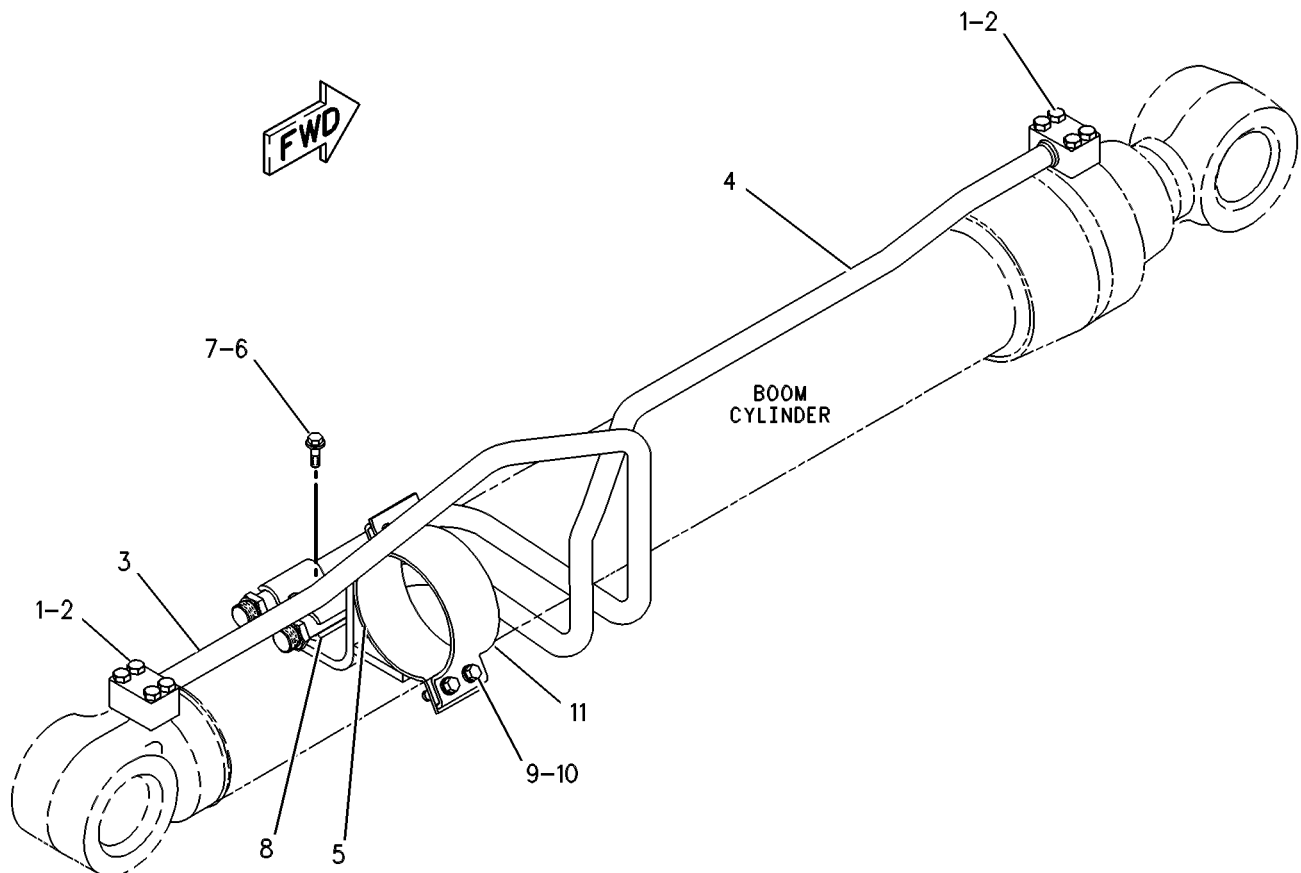
PART OF 205-1183 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i00617931

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4185	8	BOLT (M10X1.50X50MM)						
	2	1	1P-3703	2	SEAL-RECTANGULAR (31.86MM ID)						
	3	1	124-1177	1	TUBE AS						
	4	1	124-1100	1	TUBE AS						
	5	1	124-1180	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	6	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	7	1	8T-4223	2	WASHER-HARD (3MM THK)						
	8	1	4I-1674	2	CLIP						
M	9	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	10	1	8T-4121	4	WASHER (2.5MM THK)						
	11	1	119-2382	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						

M-METRIC PART



GRAPHIC #1

g00263745

HYDRAULIC SYSTEM

176-4654 LINES GP-BOOM CYLINDER

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 171-0178 VALVE AR-CHECK & RELIEF
AN ATTACHMENT

SMCS-5456

i01512007

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	190-7756	1	VALVE GP-CHECK & RELIEF	512
	2	1	148-8433	2	TEE GP	
					(EACH INCLUDES)	
		1	6V-8397	2	SEAL-O-RING	
		1	6V-9836	1	TEE-SWIVEL	
Y	3	1	190-7752	1	VALVE GP-CHECK & RELIEF	511
	4	1	1P-3703	6	SEAL-RECTANGULAR	
M	5	1	8T-0341	8	BOLT-SOCKET HEAD (M10X1.5X60MM)	
	6	1	6V-9746	4	SEAL-O-RING	
	7	1	148-8354	1	ELBOW GP	
		1	3K-0360	1	SEAL-O-RING	
		1	6V-8398	1	SEAL-O-RING	
		1	6V-9002	1	ELBOW	
	8	1	153-6241	1	ELBOW GP	
		1	6V-8398	1	SEAL-O-RING	
		1	8C-8989	1	ELBOW	
M	9	1	8T-4196	12	BOLT (M10X1.5X35MM)	
	10	1	8T-4121	28	WASHER-HARD (11X21X2.5MM THK)	
M	11	1	8T-4139	4	BOLT (M12X1.75X30MM)	
	12	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)	
	13	1	4I-1674	4	CLIP	
	14	1	187-5599	2	HOSE AS	
	15	1	184-9259	1	TUBE AS	
M	16	1	8T-4195	12	BOLT (M10X1.5X30MM)	
	17	1	184-9453	1	HOSE AS	
M	18	1	8T-4136	4	BOLT (M10X1.5X25MM)	
	19	1	148-8444	1	TEE AS-ORFS	
		1	6V-8398	2	SEAL-O-RING	
		1	6V-9837	1	TEE-SWIVEL	
	20	1	184-9407	2	TUBE AS	
	21	1	184-9468	2	PLATE	
	22	1	184-9467	2	SUPPORT AS	
	23	1	119-2382	4	SUPPORT AS	
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	24	1	184-9260	1	TUBE AS	
	25	1	148-8336	2	CONNECTOR GP	
					(EACH INCLUDES)	
		1	3J-1907	1	SEAL-O-RING	
		1	6V-8397	1	SEAL-O-RING	
		1	6V-8636	1	CONNECTOR	
	26	1	7K-1181	8	STRAP-CABLE	
	27	1	148-8378	2	ELBOW GP	
					(EACH INCLUDES)	
		1	3J-1907	1	SEAL-O-RING	
		1	6V-8397	1	SEAL-O-RING	
		1	6V-8724	1	ELBOW	
	28	1	148-8340	1	CONNECTOR GP	
		1	3K-0360	1	SEAL-O-RING	
		1	6V-8398	1	SEAL-O-RING	
		1	6V-8639	1	CONNECTOR	
Y	29	1	204-4909	2	CYLINDER & SEAL GP-BOOM	302
	30	1	124-1099	1	TUBE AS	
M	31	1	8T-4185	8	BOLT (M10X1.5X50MM)	
	32	1	124-1100	1	TUBE AS	

HYDRAULIC SYSTEM

176-4654 LINES GP-BOOM CYLINDER (contd.)

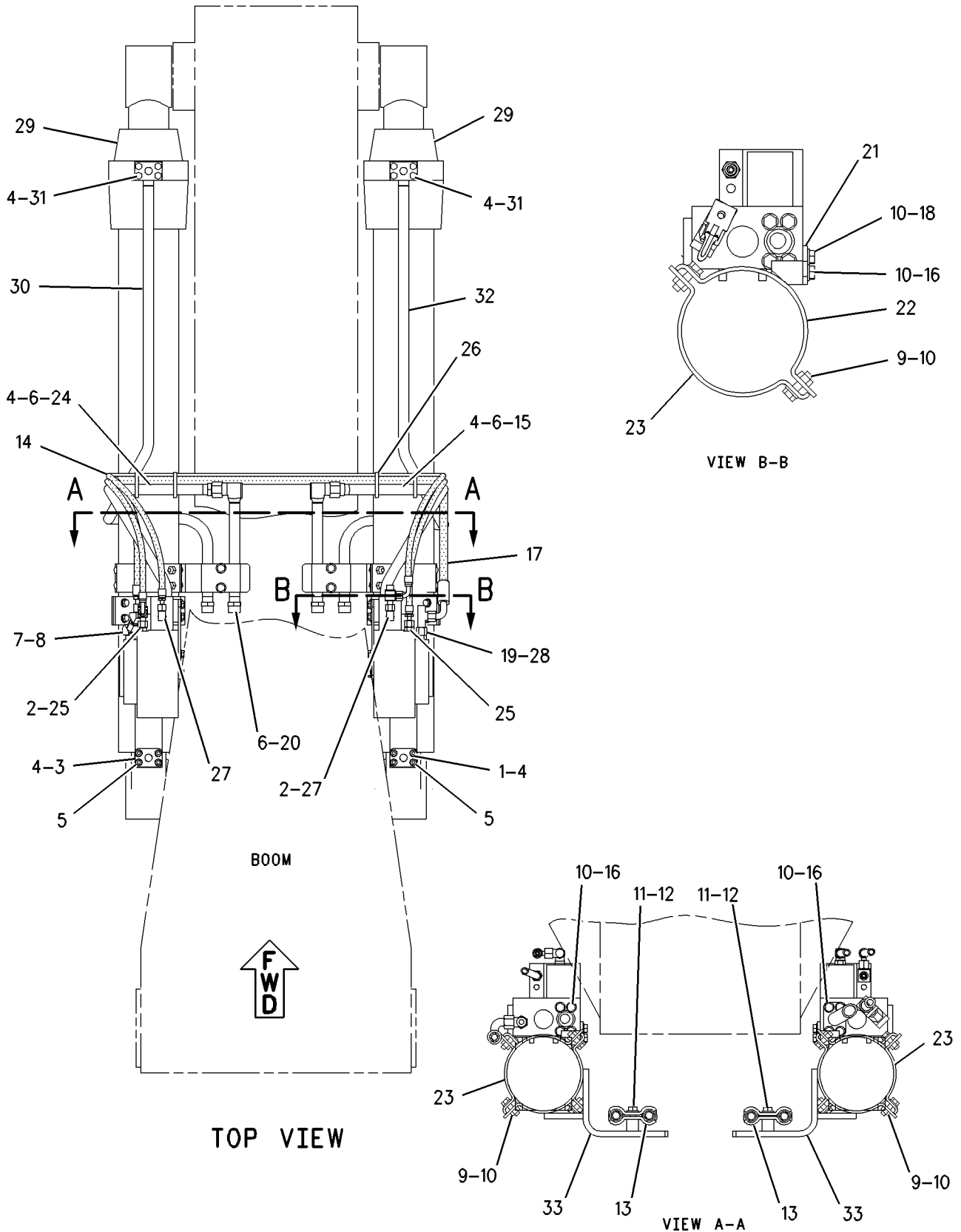
i01512007

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	33	1	124-1180	2	SUPPORT AS						
M-METRIC PART Y-SEPARATE ILLUSTRATION											

HYDRAULIC SYSTEM

176-4654 LINES GP-BOOM CYLINDER (contd.)

i01512007



GRAPHIC #1

g00784760

HYDRAULIC SYSTEM

177-7467 LINES GP-BOOM CYLINDER

S/N: CBY1-UP

LH

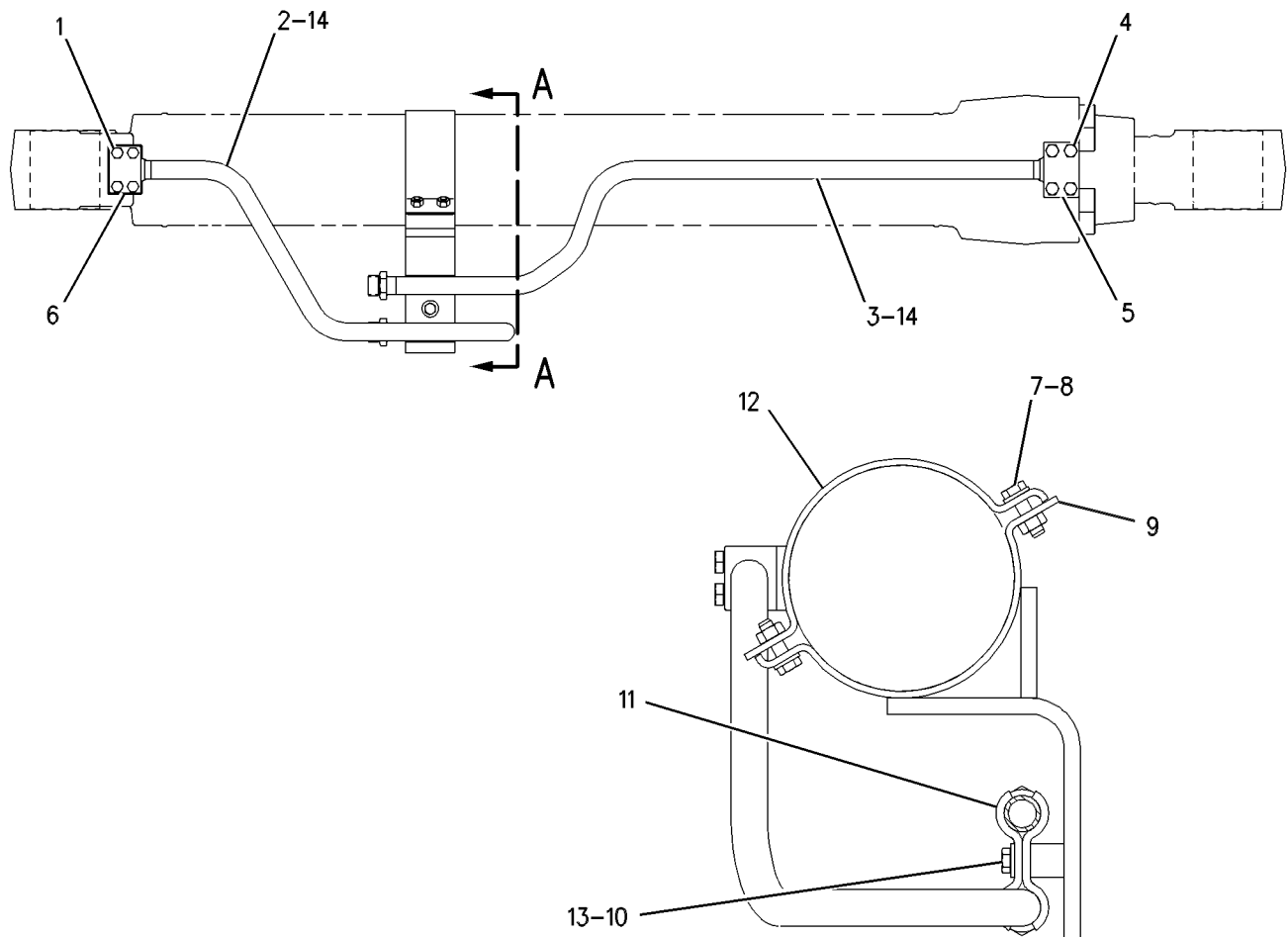
PART OF 177-7465 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01157664

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4185	4	BOLT (M10X1.5X50MM)						
	2	1	143-3545	1	TUBE AS						
	3	1	177-7189	1	TUBE AS						
M	4	1	8T-4910	4	BOLT (M12X1.75X60MM)						
	5	1	1P-3704	1	SEAL-RECTANGULAR (38.2MM ID)						
	6	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)						
M	7	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	8	1	8T-4121	4	WASHER (2.5MM THK)						
	9	1	119-2385	1	SUPPORT AS						
M	10	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	11	1	4I-1674	2	CLIP						
	12	1	119-2325	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	13	1	8T-4223	2	WASHER-HARD (3MM THK)						
	14	1	6V-9746	2	SEAL-O-RING (18.94MM ID)						

M-METRIC PART



SECTION A-A

GRAPHIC #1

g00615910

HYDRAULIC SYSTEM

177-7468 LINES GP-BOOM CYLINDER

S/N: CBY1-UP

RH

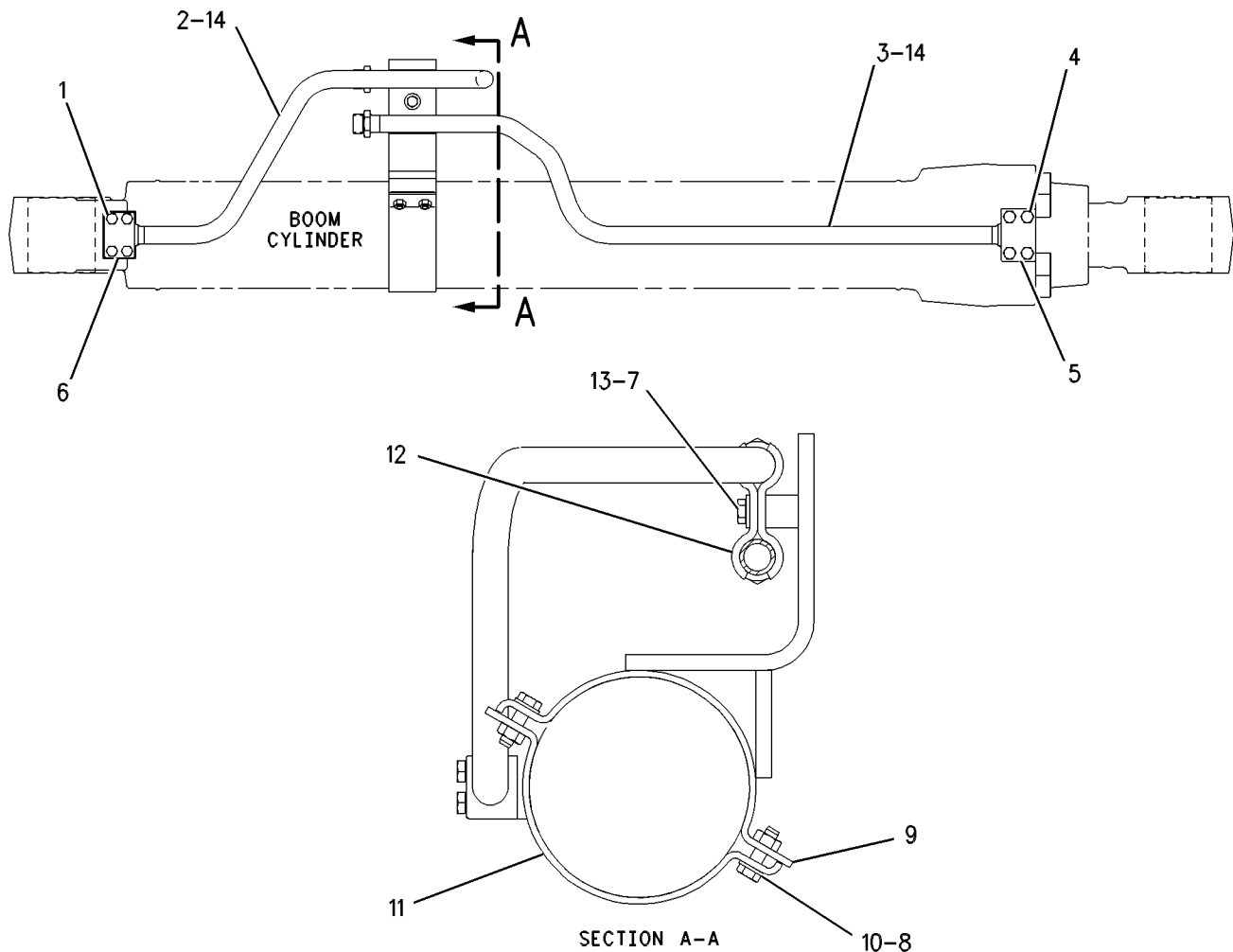
PART OF 177-7466 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5456

i01157669

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4185	4	BOLT (M10X1.5X50MM)						
	2	1	143-3546	1	TUBE AS						
	3	1	177-7190	1	TUBE AS						
M	4	1	8T-4910	4	BOLT (M12X1.75X60MM)						
	5	1	1P-3704	1	SEAL-RECTANGULAR (38.2MM ID)						
	6	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)						
M	7	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	8	1	8T-4121	4	WASHER (2.5MM THK)						
	9	1	119-2385	1	SUPPORT AS						
M	10	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	11	1	119-2325	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	12	1	4I-1674	2	CLIP						
	13	1	8T-4223	2	WASHER-HARD (3MM THK)						
	14	1	6V-9746	2	SEAL-O-RING (18.94MM ID)						

M-METRIC PART



GRAPHIC #1

g00615880

HYDRAULIC SYSTEM

118-4125 LINES GP-BUCKET CYLINDER

S/N: BPH1 -UP; CAM1 -UP

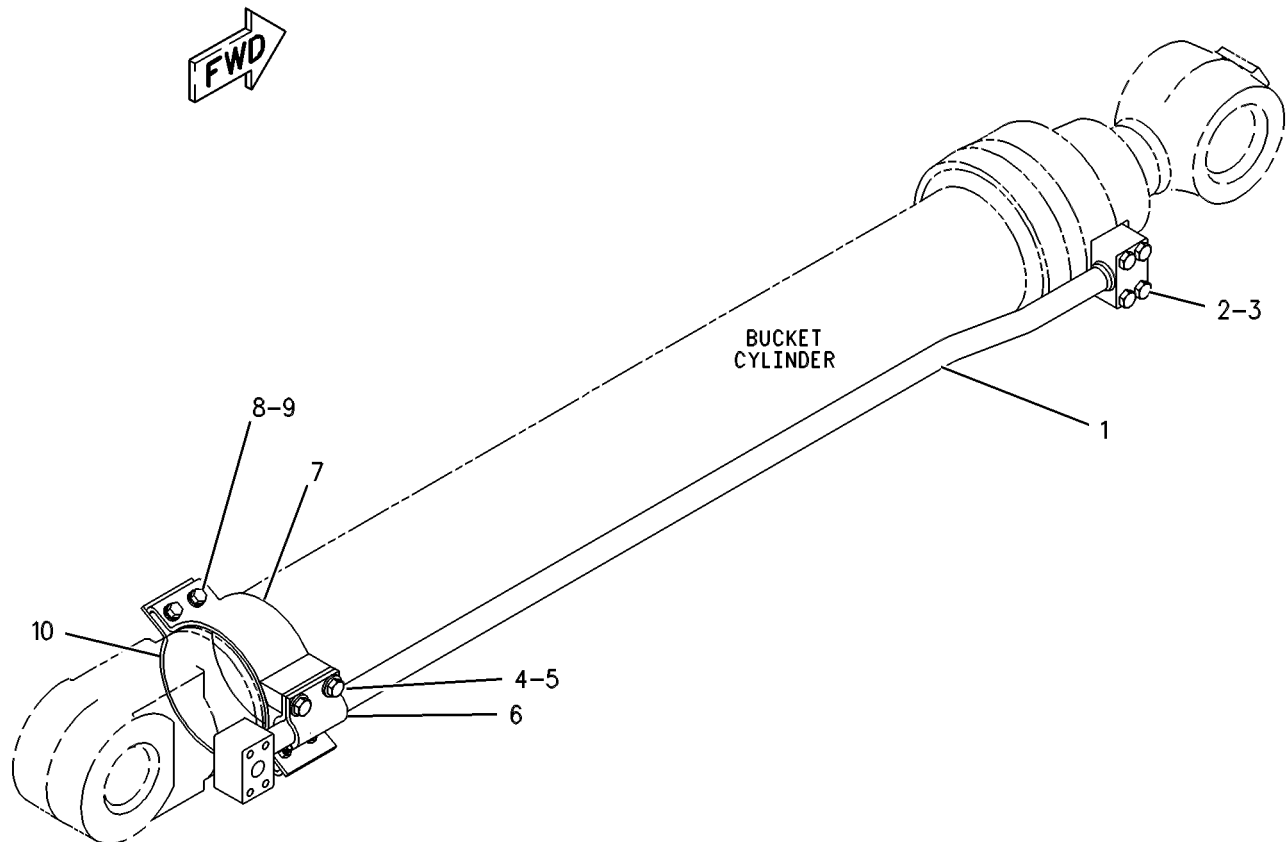
**PART OF 205-1185 CYLINDER & LINES GP-BUCKET
AN ATTACHMENT**

SMCS-5057, 5457

i00619397

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	124-1185	1	TUBE AS	
	2	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)	
M	3	1	8T-4185	4	BOLT (M10X1.50X50MM)	
M	4	1	8T-4139	2	BOLT (M12X1.75X30MM)	
	5	1	8T-4223	2	WASHER-HARD (3MM THK)	
	6	1	7Y-4868	2	CLIP	
	7	1	119-2381	1	SUPPORT AS	
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	8	1	8T-4121	4	WASHER (2.5MM THK)	
M	9	1	8T-4196	4	BOLT (M10X1.50X35MM)	
	10	1	119-2382	1	SUPPORT AS	
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)	

M-METRIC PART



GRAPHIC #1

g00264215

HYDRAULIC SYSTEM

179-5108 LINES GP-DRAIN

S/N: BPH1-UP; CAM1-UP

AN ATTACHMENT

SMCS-5057

i01512891

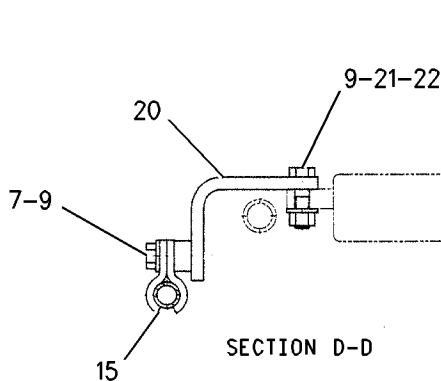
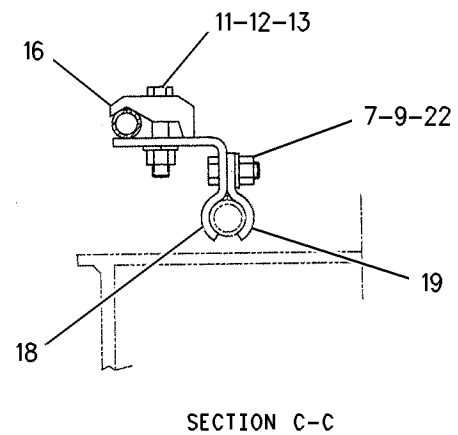
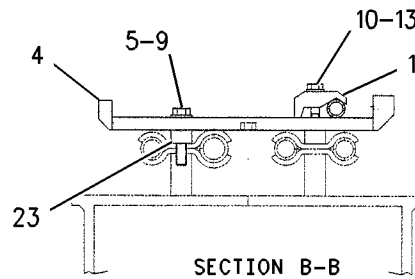
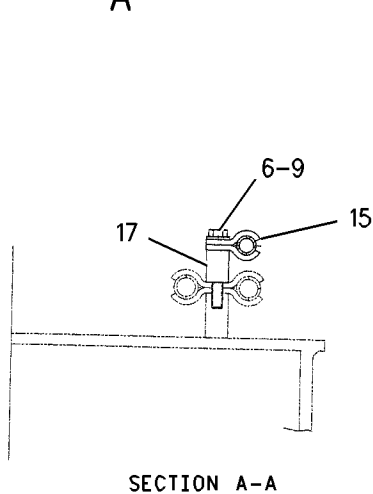
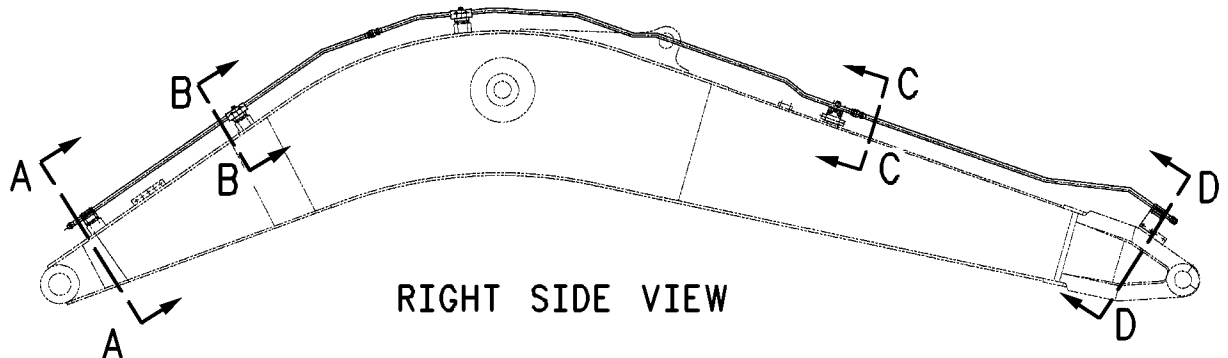
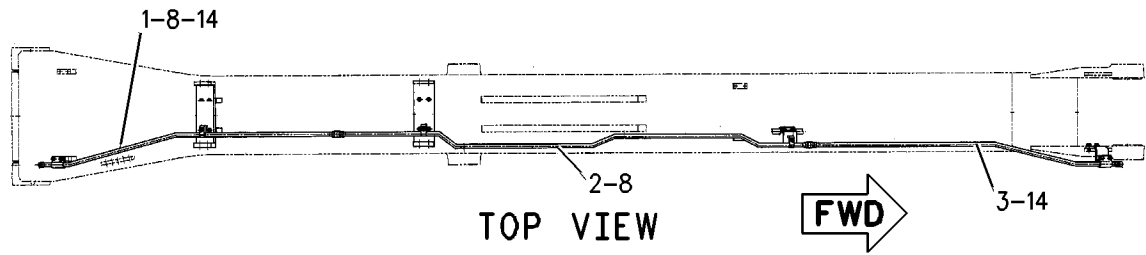
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-5104	1	TUBE AS						
	2	1	179-5105	1	TUBE AS						
	3	1	179-5106	1	TUBE AS						
	4	1	179-5249	2	SUPPORT AS						
M		1	8T-4133	1	NUT (M10X1.5 THD)						
M	5	1	8T-4910	8	BOLT (M12X1.75X60MM)						
M	6	1	8T-6868	2	BOLT (M12X1.75X80MM)						
M	7	1	8T-4139	4	BOLT (M12X1.75X30MM)						
	8	1	4I-8888	2	SEAL-RECTANGULAR						
	9	1	8T-4223	16	WASHER-HARD (13.5X25.5X3MM THK)						
M	10	1	085-8091	2	BOLT (M10X1.5X55MM)						
M	11	1	8T-6466	1	BOLT (M10X1.50X60MM)						
M	12	1	8T-4133	1	NUT (M10X1.5 THD)						
	13	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
	14	1	6V-8398	2	SEAL-O-RING						
	15	1	149-1738	4	CLIP						
	16	1	093-1291	3	CLAMP						
	17	1	179-5090	1	PLATE						
	18	1	187-9861	1	CLIP						
	19	1	7Y-4868	1	CLIP						
	20	1	173-7997	1	SUPPORT AS						
M	21	1	8T-4184	2	BOLT (M12X1.75X45MM)						
M	22	1	8T-4244	4	NUT (M12X1.75 THD)						
	23	1	187-9851	4	PLATE						

M-METRIC PART

HYDRAULIC SYSTEM

179-5108 LINES GP-DRAIN (contd.)

i01512891



GRAPHIC #1

g00786070

HYDRAULIC SYSTEM

179-5132 LINES GP-DRAIN

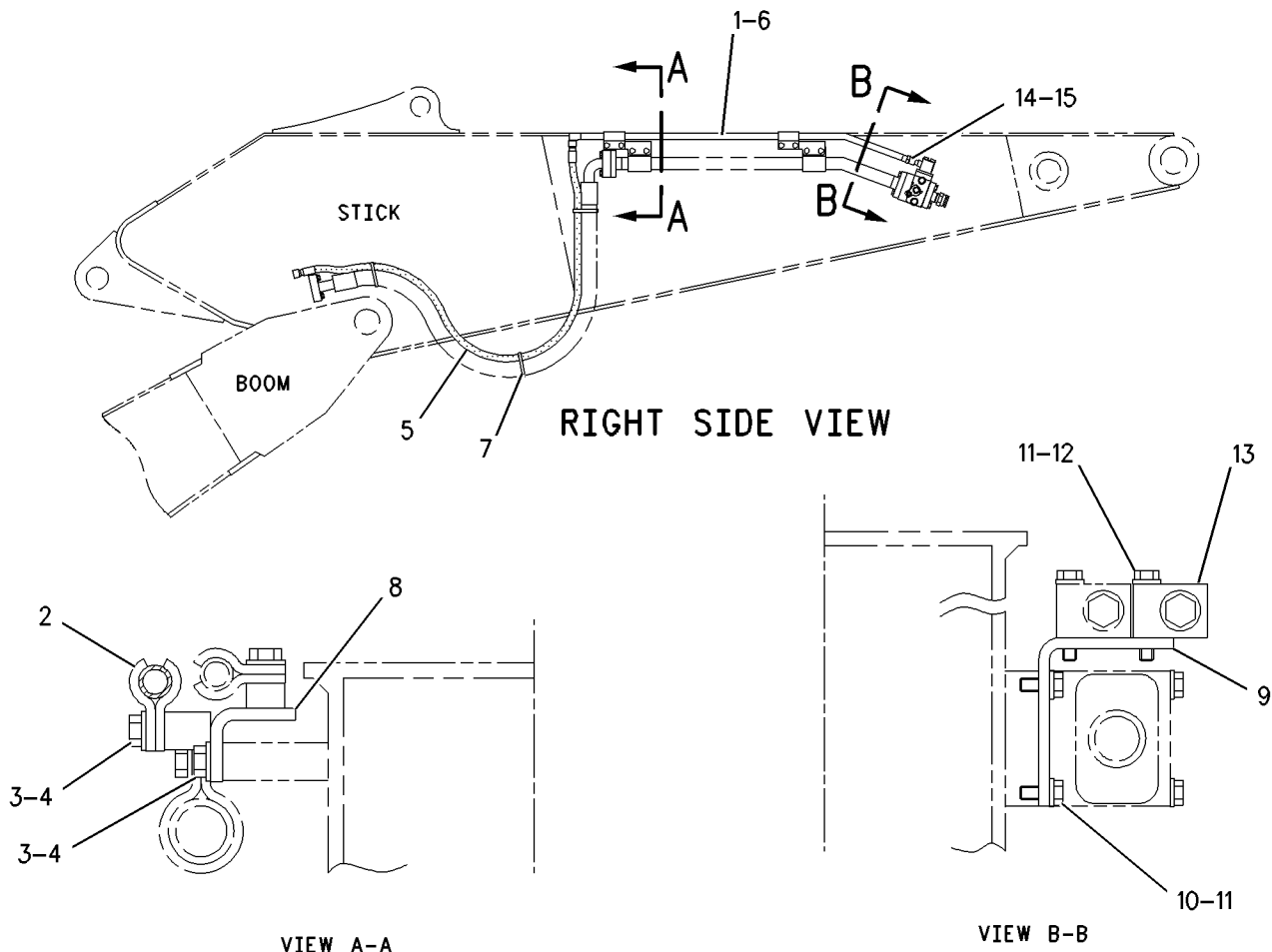
S/N: BPH1-UP; CAM1-UP
FOR USE WITH 2.95M (9.76 FEET) S-FAMILY STICK
AN ATTACHMENT

SMCS-5057

i01458783

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	188-0042	1	TUBE AS						
	2	1	149-1738	2	CLIP						
	3	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)						
M	4	1	8T-4139	4	BOLT (M12X1.75X30MM)						
	5	1	179-5128	1	HOSE AS						
	6	1	6V-8398	2	SEAL-O-RING						
	7	1	6K-0806	3	STRAP-CABLE						
	8	1	188-0044	1	SUPPORT AS						
	9	1	188-0043	1	PLATE						
M	10	1	8T-4136	2	BOLT (M10X1.5X25MM)						
	11	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
M	12	1	8T-6466	2	BOLT (M10X1.50X60MM)						
	13	1	6C-6760	1	MANIFOLD						
	14	1	7X-3164	1	ADAPTER-SWIVEL						
	15	1	3K-0360	1	SEAL-O-RING						

M-METRIC PART



GRAPHIC #1

g00763993

MEMORANDA

HYDRAULIC SYSTEM

176-4624 LINES GP-FRONT

S/N: BPH1-UP; CAM1-UP

PART OF 186-3942, 196-3255 HYDRAULIC AR

SMCS-5057

i01502788

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	179-7889	2	HOSE AS						
	2	1	7Y-7904	4	HOSE AS						
	3	1	179-7757	1	HOSE AS						
	4	1,2	1P-3703	6	SEAL-RECTANGULAR						
	5	1	179-7897	1	HOSE AS						
	6	1	194-0180	1	HOSE GP						
	7	1,2	4J-5267	6	SEAL-O-RING						
	8	2	5K-9090	1	SEAL-O-RING						
	9	1	194-0174	1	HOSE GP						
	10	2	148-8335	1	CONNECTOR GP						
	2	5K-9090	1	SEAL-O-RING							
	2	6V-8635	1	CONNECTOR							
	2	7M-8485	1	SEAL-O-RING							
11	2	194-0177	1	HOSE GP							
12	1	179-7725	1	TUBE AS							
13	1,2	6V-9746	6	SEAL-O-RING							
14	1	179-7727	1	TUBE AS							
15	1	124-1204	1	SUPPORT AS							
M	16	1	8T-4192	2	BOLT (M12X1.75X25MM)						
	17	1,2	8T-4223	10	WASHER-HARD (13.5X25.5X3MM THK)						
	18	1	133-5828	1	SUPPORT AS						
		1	5I-4353	1	BAR						
		1	108-7550	1	CLIP						
	19	1	108-7550	1	CLIP						
M	20	1	8T-4910	2	BOLT (M12X1.75X60MM)						
M	21	1	8T-4186	4	BOLT (M10X1.5X40MM)						
	22	1	9F-2167	1	SCREW-PURGE						
	23	2	1P-4577	2	FLANGE-HALF						
M	24	2	9X-6032	30	BOLT-SOCKET HEAD (M10X1.5X30MM)						
	27	2	7Y-3721	1	TUBE AS						
M	28	2	8T-4172	2	BOLT (M10X1.50X80MM)						
Y	29	2	158-8117	1	VALVE GP-PILOT (BOOM DRIFT REDUCTION)						
	30	2	4J-5268	1	SEAL (13.94MM ID)						
	31	2	137-0856	1	TUBE AS						
M	32	2	3E-8028	6	BOLT-SOCKET HEAD (M10X150MM)						
M	33	2	8T-4139	2	BOLT (M12X1.75X30MM)						
	34	2	4I-1674	2	CLIP						
Y	35	2	158-8160	1	VALVE GP-PILOT (STICK DRIFT REDUCTION)						
	36	2	6V-0400	2	FLANGE-HALF						544
M	37	2	8T-4184	4	BOLT (M12X1.75X45MM)						
M	38	2	8T-5005	2	BOLT (M10X1.50X70MM)						
	39	2	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
	40	2	165-3214	1	FLANGE						

I-SEE HOSE FABRICATION GUIDE

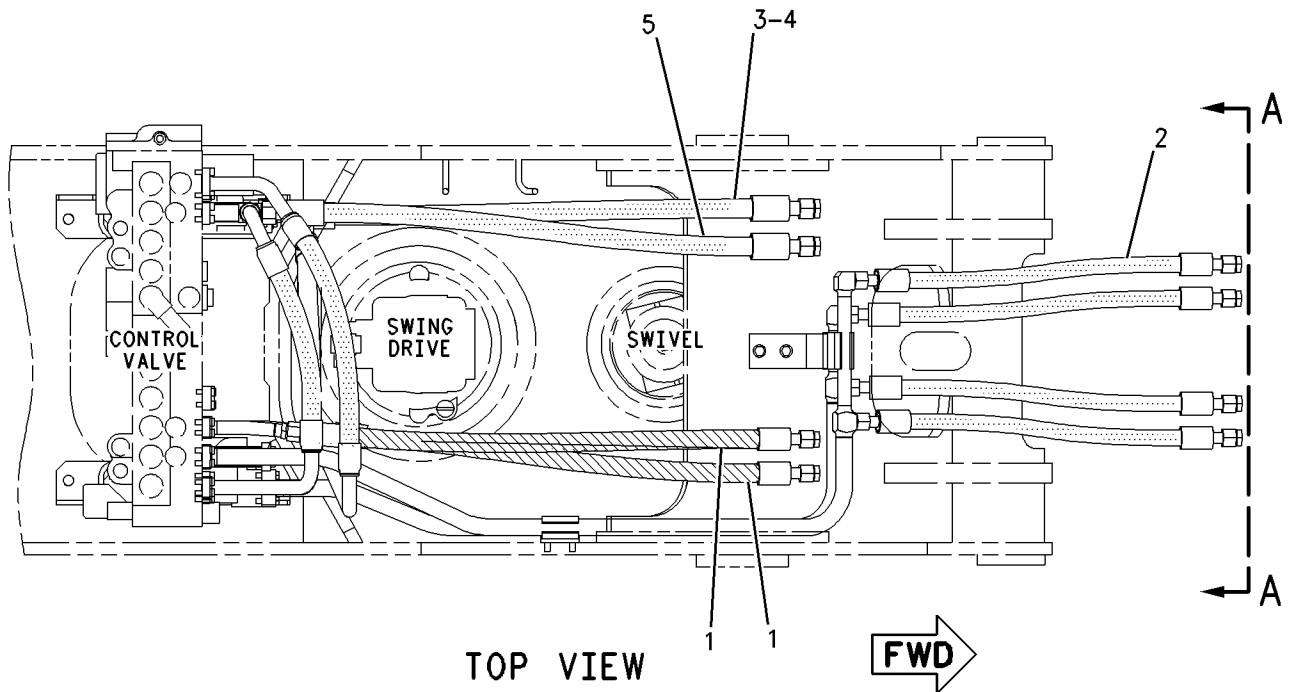
M-METRIC PART

Y-SEPARATE ILLUSTRATION

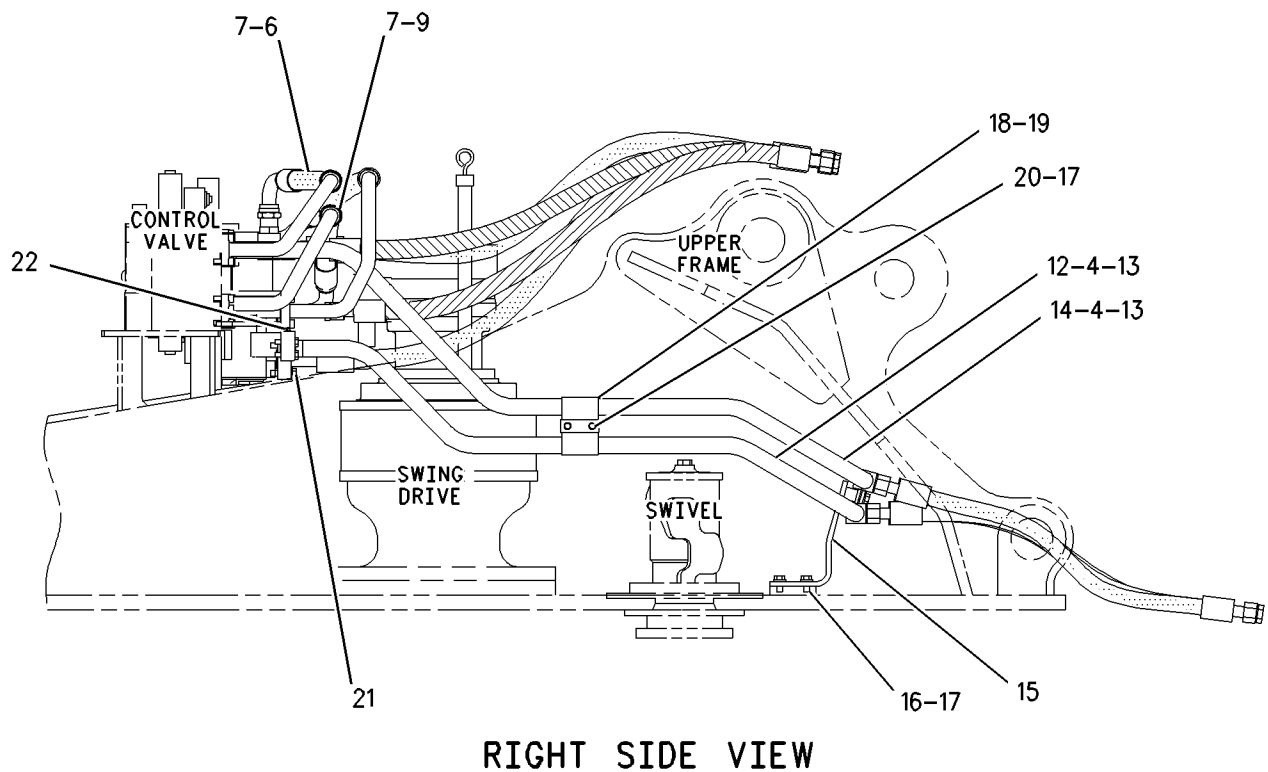
HYDRAULIC SYSTEM

176-4624 LINES GP - FRONT (contd.)

i01502788



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



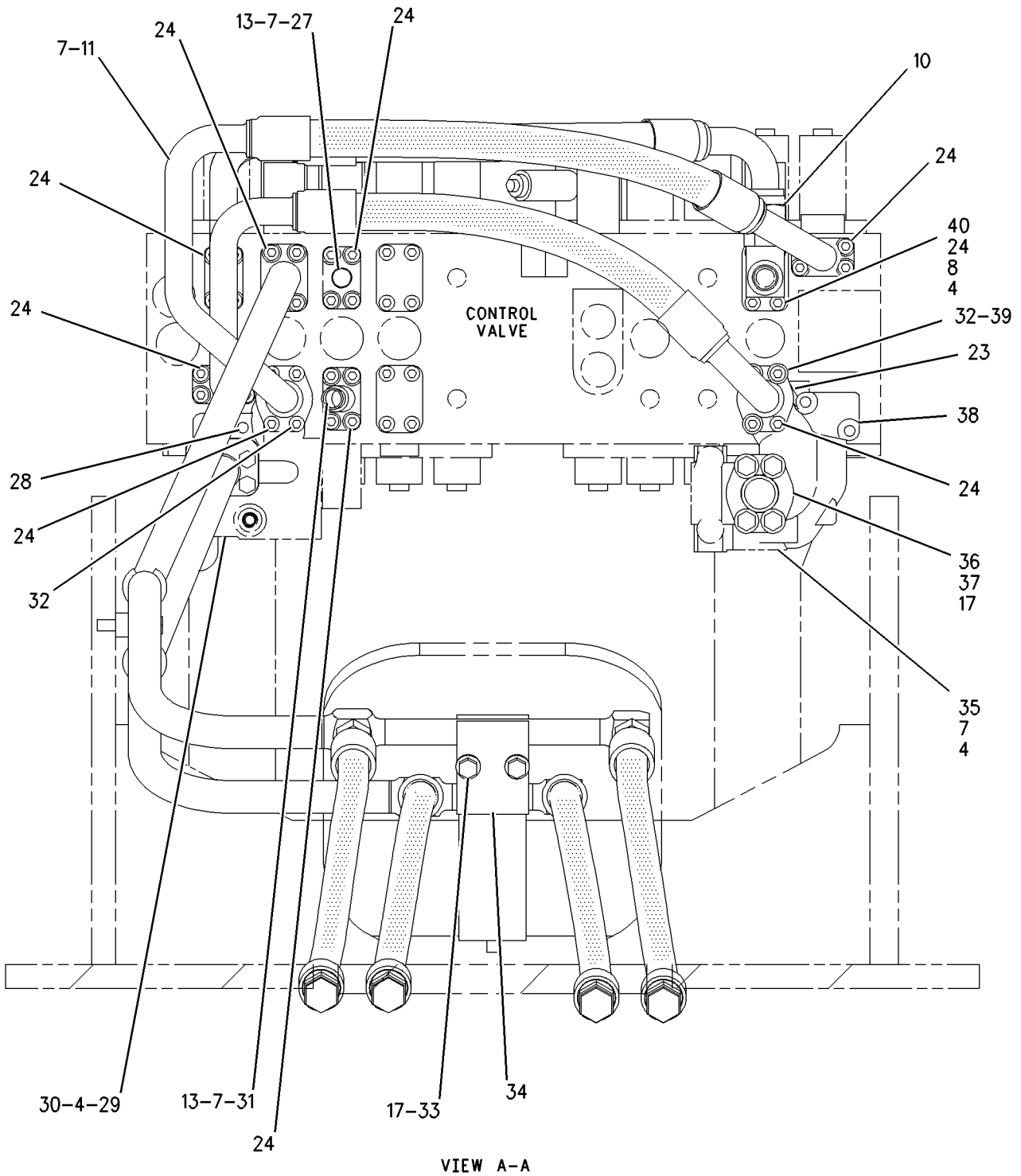
GRAPHIC #1

g00797187

HYDRAULIC SYSTEM

176-4624 LINES GP - FRONT (contd.)

i01502788



GRAPHIC #2

g00797190

MEMORANDA

HYDRAULIC SYSTEM

187-6941 LINES GP-FRONT

S/N: BPH1-UP; CAM1-UP

DOUBLE ACTION

PART OF 206-6046 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-5057

101518237

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	151-1751	1	HOSE AS						565
	2	1	193-9933	1	HOSE AS						
	3	1	192-6779	1	SUPPORT AS						
		1	7T-1099	1	LINK						
	4	1	179-7906	1	SUPPORT AS						
	5	1	148-8355	2	ELBOW GP						
	(EACH INCLUDES)										
		1	5K-9090	1	SEAL-O-RING						
		1	6V-8635	1	CONNECTOR						
		1	7M-8485	1	SEAL-O-RING						
6	1	179-7612	2	BLOCK							
7	1	168-9666	1	BLOCK							
8	1	194-0405	1	TUBE AS							
M	9	1	8T-5092	4	BOLT (M12X1.75X150MM)						
	10	1	184-9379	1	TUBE AS						
	11	1	179-7662	2	COVER						
	12	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)						
	13	1	8T-4223	26	WASHER-HARD (13.5X25.5X3MM THK)						
	14	1	148-8335	2	CONNECTOR GP						
	(EACH INCLUDES)										
		1	5K-9090	1	SEAL-O-RING						
		1	6V-8635	1	CONNECTOR						
		1	7M-8485	1	SEAL-O-RING						
15	1	1P-3703	6	SEAL-RECTANGULAR							
16	1	5K-9090	2	SEAL-O-RING							
17	1	187-5853	1	BLOCK							
M	18	1	8T-4956	10	BOLT (M12X1.75X35MM)						
M	19	1	9X-6032	8	BOLT-SOCKET HEAD (M10X1.5X30MM)						
M	20	1	8T-4139	8	BOLT (M12X1.75X30MM)						
M	21	1	8T-4136	4	BOLT (M10X1.5X25MM)						
M	22	1	8T-4196	2	BOLT (M10X1.5X35MM)						
M	23	1	8T-5412	4	BOLT (M12X1.75X140MM)						
	24	1	192-6816	1	PLATE						
	25	1	187-7136	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	26	1	6V-9832	1	CAP AS						
	27	1	6V-9746	1	SEAL-O-RING						
Y	28	1	116-3600	2	VALVE GP-RELIEF						
	29	1	196-0637	1	BLOCK						

I-SEE HOSE FABRICATION GUIDE

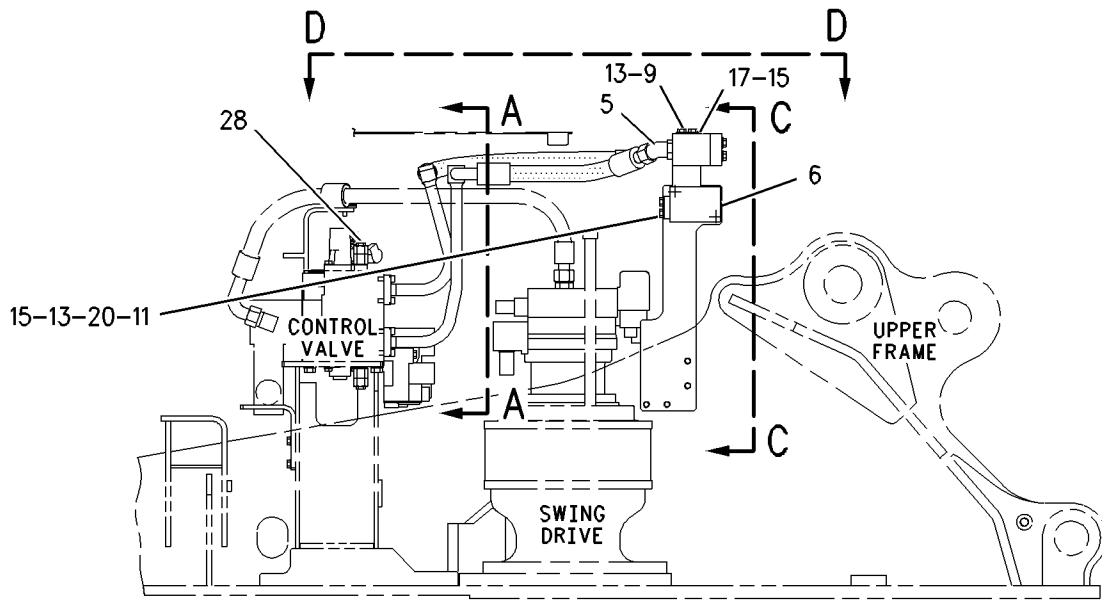
M-METRIC PART

Y-SEPARATE ILLUSTRATION

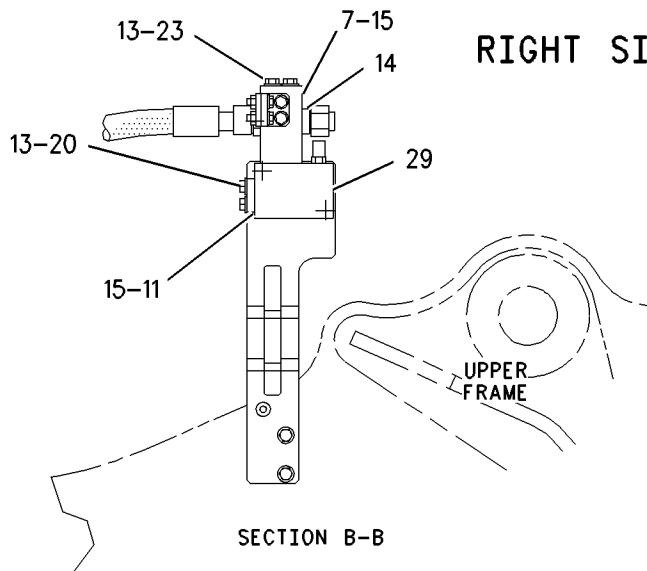
HYDRAULIC SYSTEM

187-6941 LINES GP - FRONT (contd.)

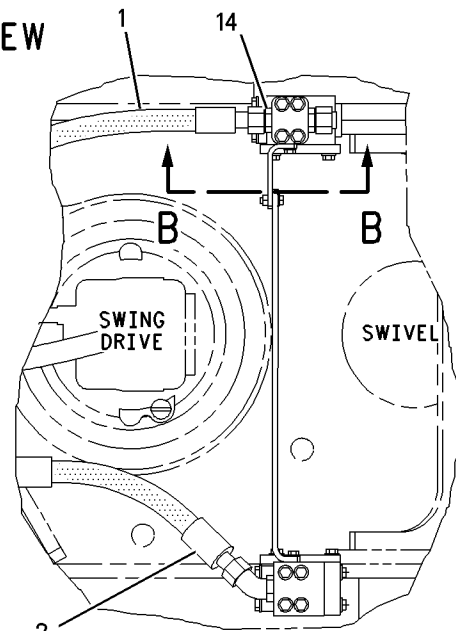
i01518237



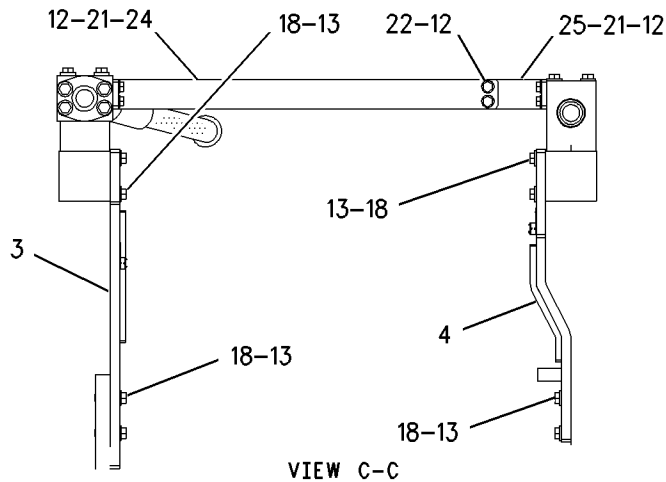
RIGHT SIDE VIEW



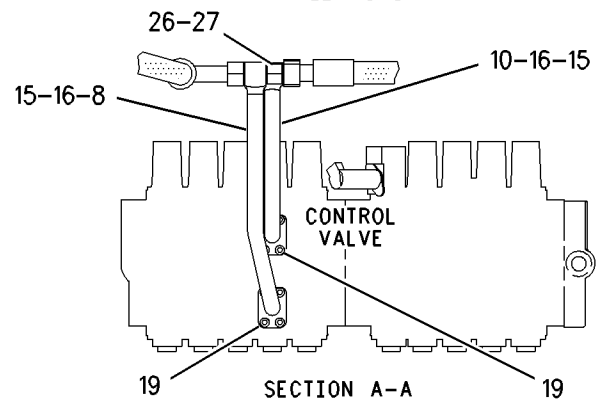
SECTION B-B



VIEW D-D



VIEW C-C



SECTION A-A

GRAPHIC #1

g00787909

HYDRAULIC SYSTEM

187-7165 LINES GP-FRONT

S/N: CBY1-UP

PART OF 186-3943 HYDRAULIC AR

SMCS-5057

i01512440

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	179-7725	1	TUBE AS	
	2	1	179-7727	1	TUBE AS	
	3	1	187-5665	2	TUBE AS	
	4	1	196-0638	2	TUBE AS	
	5	2	199-1625	1	TUBE AS	
	6	2	199-1626	1	TUBE AS	
I	7	1	7Y-7904	4	HOSE AS	
	8	1	179-7757	1	HOSE AS	
	9	1	179-7889	2	HOSE AS	
	10	1	179-7897	1	HOSE AS	
	11	1	187-5833	2	HOSE AS	
	12	1	187-5954	2	HOSE AS	
	13	1	194-0174	1	HOSE GP	
	14	1	194-0177	1	HOSE GP	
	15	2	194-0180	1	HOSE GP	
	16	1	124-1204	1	SUPPORT AS	
	17	1	133-5828	1	SUPPORT AS	
		1	5I-4353	1	BAR	
		1	108-7550	1	CLIP	
	18	2	187-5586	1	SUPPORT AS	
M		2	8T-3490	1	NUT-WELD (M10X1.5 THD)	
		2	184-9404	1	CLIP	
	19	2	4I-1674	2	CLIP	
	20	1	108-7550	1	CLIP	
	21	2	184-9404	1	CLIP	
Y	22	1	116-3600	2	VALVE GP-RELIEF	565
Y	23	2	158-8117	1	VALVE GP-PILOT (BOOM DRIFT REDUCTION)	542
Y	24	2	158-8160	1	VALVE GP-PILOT (STICK DRIFT REDUCTION)	544
	25	2	1P-4577	2	FLANGE-HALF	
	26	2	6V-0400	2	FLANGE-HALF	
	27	2	165-3214	1	FLANGE	
	28	2	148-8335	1	CONNECTOR GP	
		2	5K-9090	1	SEAL-O-RING	
		2	6V-8635	1	CONNECTOR	
		2	7M-8485	1	SEAL-O-RING	
	29	1	6V-8942	2	REDUCER-O-RING (FACE)	
	30	1	6V-8556	2	NUT (1 3/16-12 THD)	
	31	1,2	1P-3703	8	SEAL-RECTANGULAR	
	32	1,2	4J-5267	8	SEAL-O-RING	
	33	2	5K-9090	1	SEAL-O-RING	
	34	2	6V-8398	2	SEAL-O-RING	
	35	1	6V-9746	8	SEAL-O-RING	
	36	2	4J-5268	1	SEAL (13.94MM ID)	
M	37	2	3E-8028	6	BOLT-SOCKET HEAD (M10X150MM)	
M	38	2	8T-4172	2	BOLT (M10X1.50X80MM)	
M	39	2	8T-4186	4	BOLT (M10X1.5X40MM)	
M	40	2	8T-5005	2	BOLT (M10X1.50X70MM)	
M	41	1,2	9X-6032	42	BOLT-SOCKET HEAD (M10X1.5X30MM)	
M	42	2	8T-4139	3	BOLT (M12X1.75X30MM)	
M	43	2	8T-4184	4	BOLT (M12X1.75X45MM)	
M	44	1	8T-4192	2	BOLT (M12X1.75X25MM)	
M	45	1	8T-4910	2	BOLT (M12X1.75X60MM)	
	46	2	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)	
	47	1,2	8T-4223	11	WASHER-HARD (13.5X25.5X3MM THK)	
	48	2	9F-2167	1	SCREW-PURGE	

HYDRAULIC SYSTEM

187-7165 LINES GP-FRONT (contd.)

i01512440

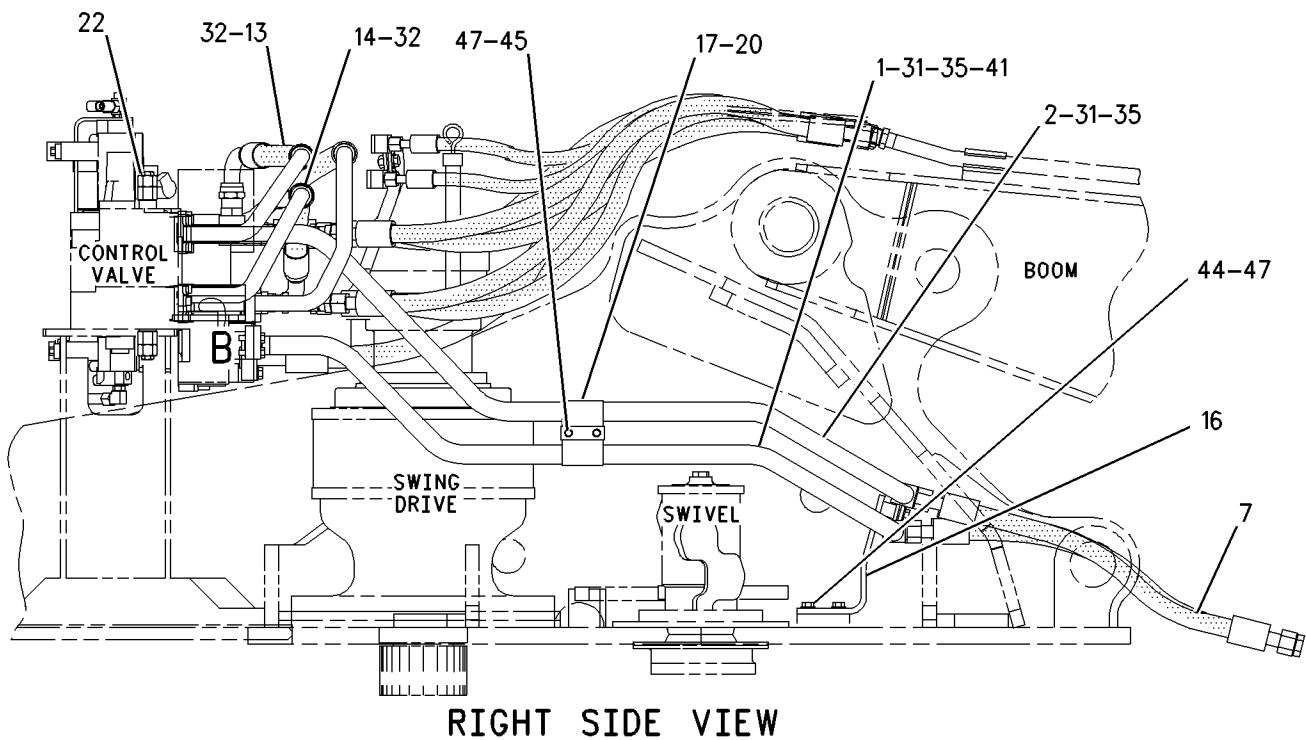
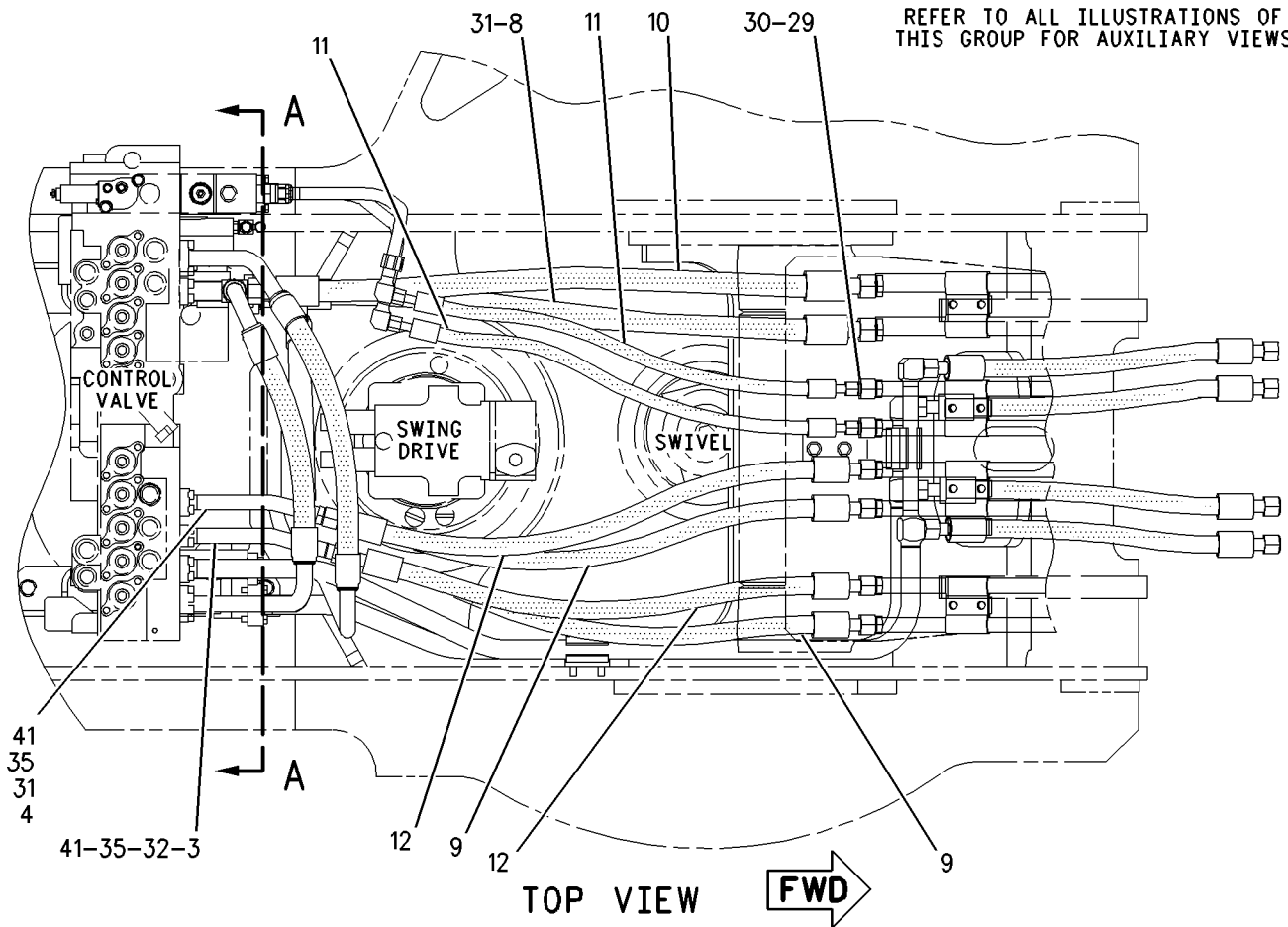
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7165 LINES GP-FRONT (contd.)

101512440

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



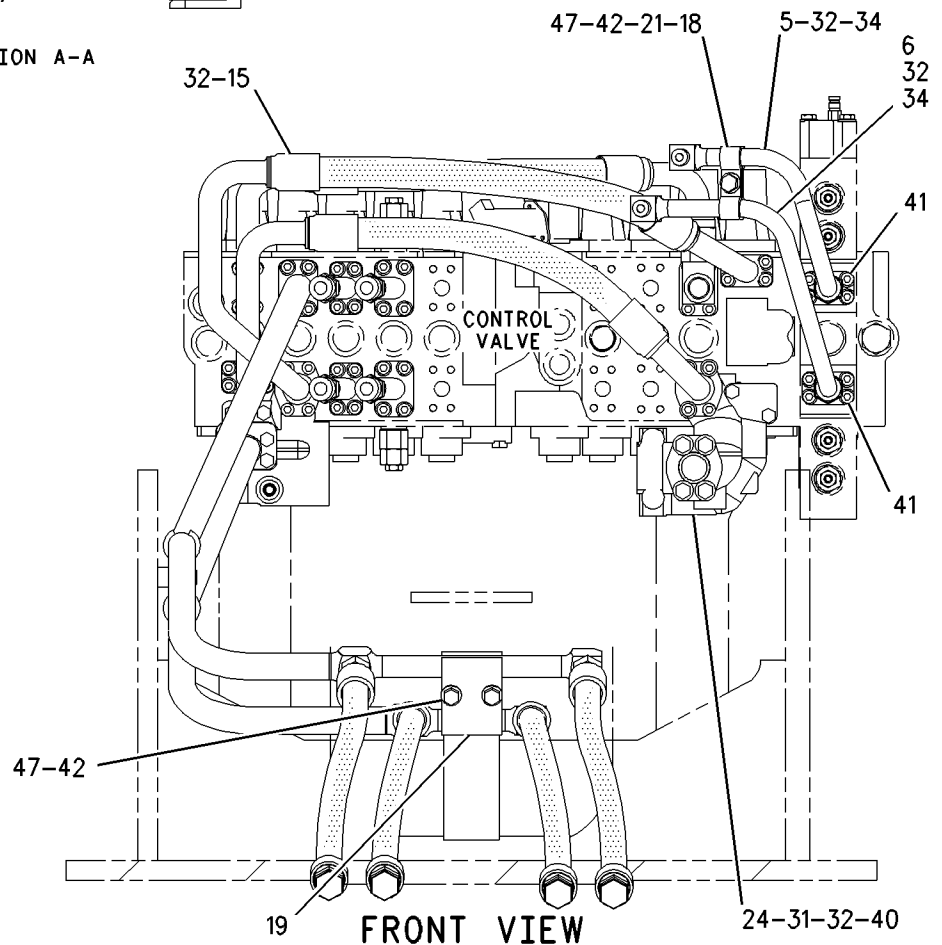
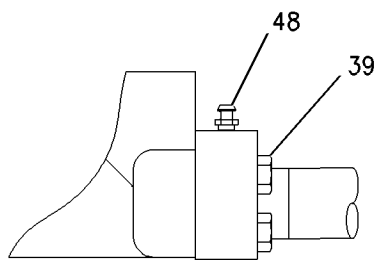
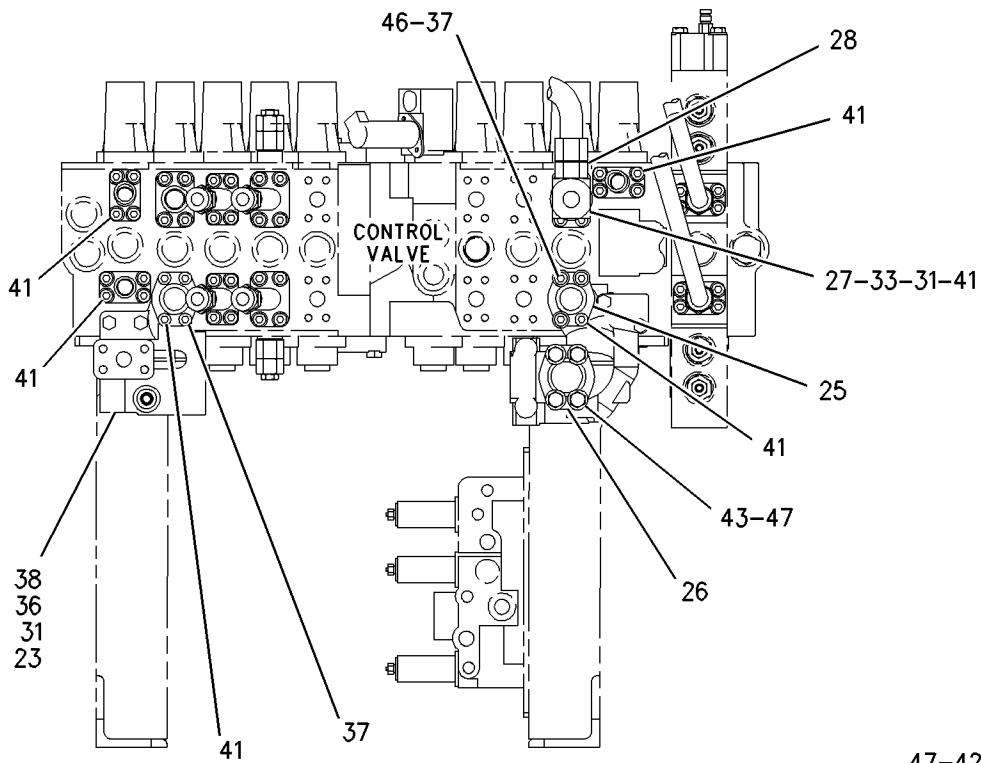
GRAPHIC #1

g00793357

HYDRAULIC SYSTEM

187-7165 LINES GP - FRONT (contd.)

i01512440



GRAPHIC #2

g00793358

HYDRAULIC SYSTEM

206-9386 LINES GP-FRONT

S/N: BPH1-UP; CAM1-UP

PART OF 206-9388, 206-9389 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-5057

i01539758

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
I	1	1	151-1751	1	HOSE AS							
	2	1	193-9933	1	HOSE AS							
	3	1	192-6779	1	SUPPORT AS							
	4	1	179-7906	1	SUPPORT AS							
	5	1	148-8355	1	ELBOW GP							
		1	6V-9005	1	ELBOW							
		1	5K-9090	1	SEAL-O-RING							
		1	7M-8485	1	SEAL-O-RING							
	6	1	179-7612	1	BLOCK							
	7	1	168-9666	1	BLOCK							
	8	1	194-0405	1	TUBE AS							
	M	9	1	8T-5092	4	BOLT (M12X1.75X150MM)						
		10	1	184-9379	1	TUBE AS						
		11	1	179-7662	2	COVER						
12		1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)							
13		1	8T-4223	27	WASHER-HARD (13.5X25.5X3MM THK)							
14		1	148-8335	2	CONNECTOR GP							
					(EACH INCLUDES)							
		1	6V-8635	1	CONNECTOR							
		1	5K-9090	1	SEAL-O-RING							
		1	7M-8485	1	SEAL-O-RING							
15		1	1P-3703	6	SEAL-RECTANGULAR							
16		1	5K-9090	2	SEAL-O-RING							
17		1	187-5853	1	BLOCK							
M		18	1	8T-4956	10	BOLT (M12X1.75X35MM)						
M	19	1	9X-6032	8	BOLT-SOCKET HEAD (M10X1.5X30MM)							
M	20	1	8T-4139	9	BOLT (M12X1.75X30MM)							
M	21	1	8T-4136	4	BOLT (M10X1.5X25MM)							
M	22	1	8T-4196	2	BOLT (M10X1.5X35MM)							
M	23	1	8T-5412	4	BOLT (M12X1.75X140MM)							
	24	1	192-6816	1	PLATE							
	25	1	187-7136	1	SUPPORT AS							
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)							
	26	1	6V-9832	1	CAP AS							
	27	1	6V-9746	3	SEAL-O-RING							
Y	28	1	116-3600	2	VALVE GP-RELIEF						565	
	29	1	196-0637	1	BLOCK							
	30	1	207-0646	1	TUBE AS							
	31	1	6V-8398	2	SEAL-O-RING							
	32	1	207-0645	1	TUBE AS							
	33	1	187-6915	2	HOSE AS							
	34	1	184-9404	1	CLIP							
	35	1	187-5586	1	SUPPORT AS							
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)							
		1	184-9404	1	CLIP							

I-SEE HOSE FABRICATION GUIDE

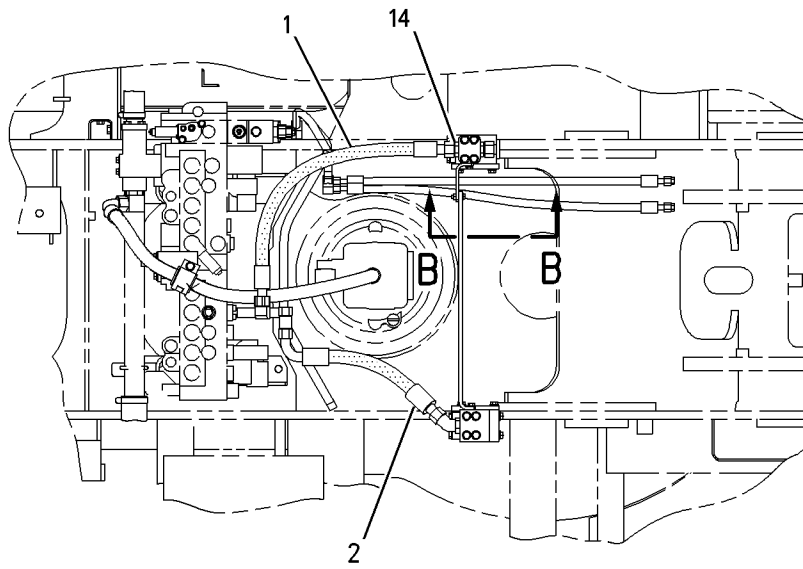
M-METRIC PART

Y-SEPARATE ILLUSTRATION

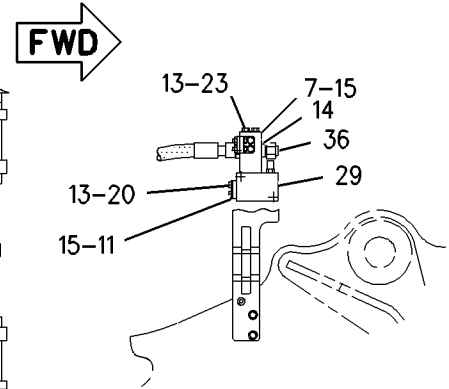
HYDRAULIC SYSTEM

206-9386 LINES GP-FRONT (contd.)

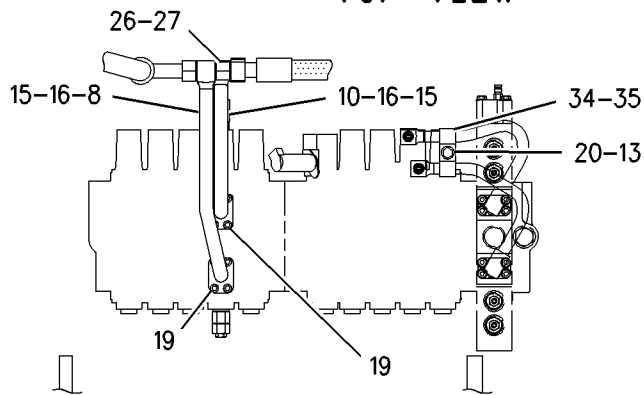
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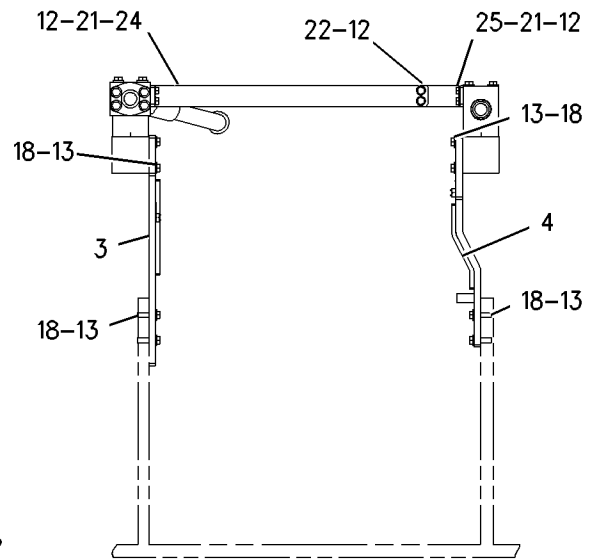
TOP VIEW



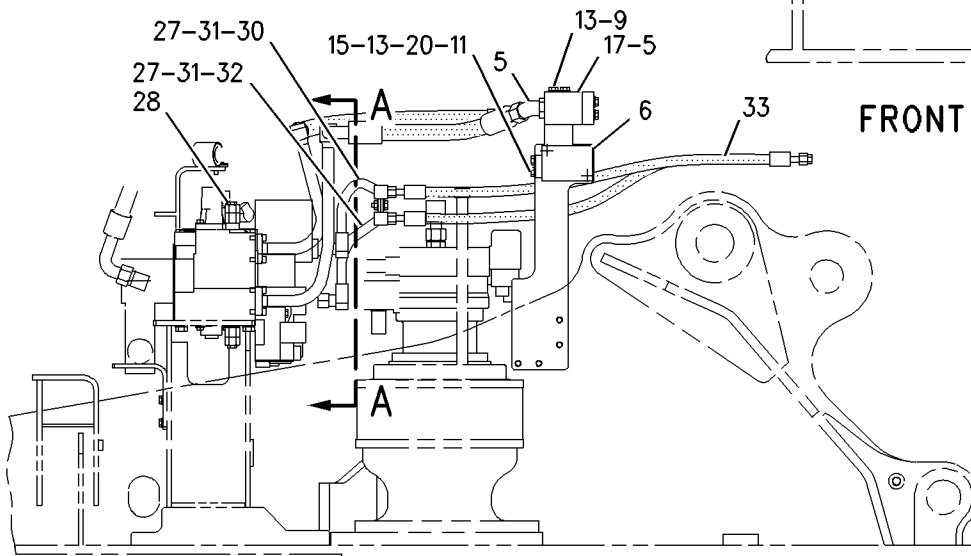
SECTION B-B



SECTION A-A



FRONT VIEW



RIGHT SIDE VIEW

GRAPHIC #1

g00799793

HYDRAULIC SYSTEM

137-5158 LINES GP-HEEL

S/N: CBY1-UP

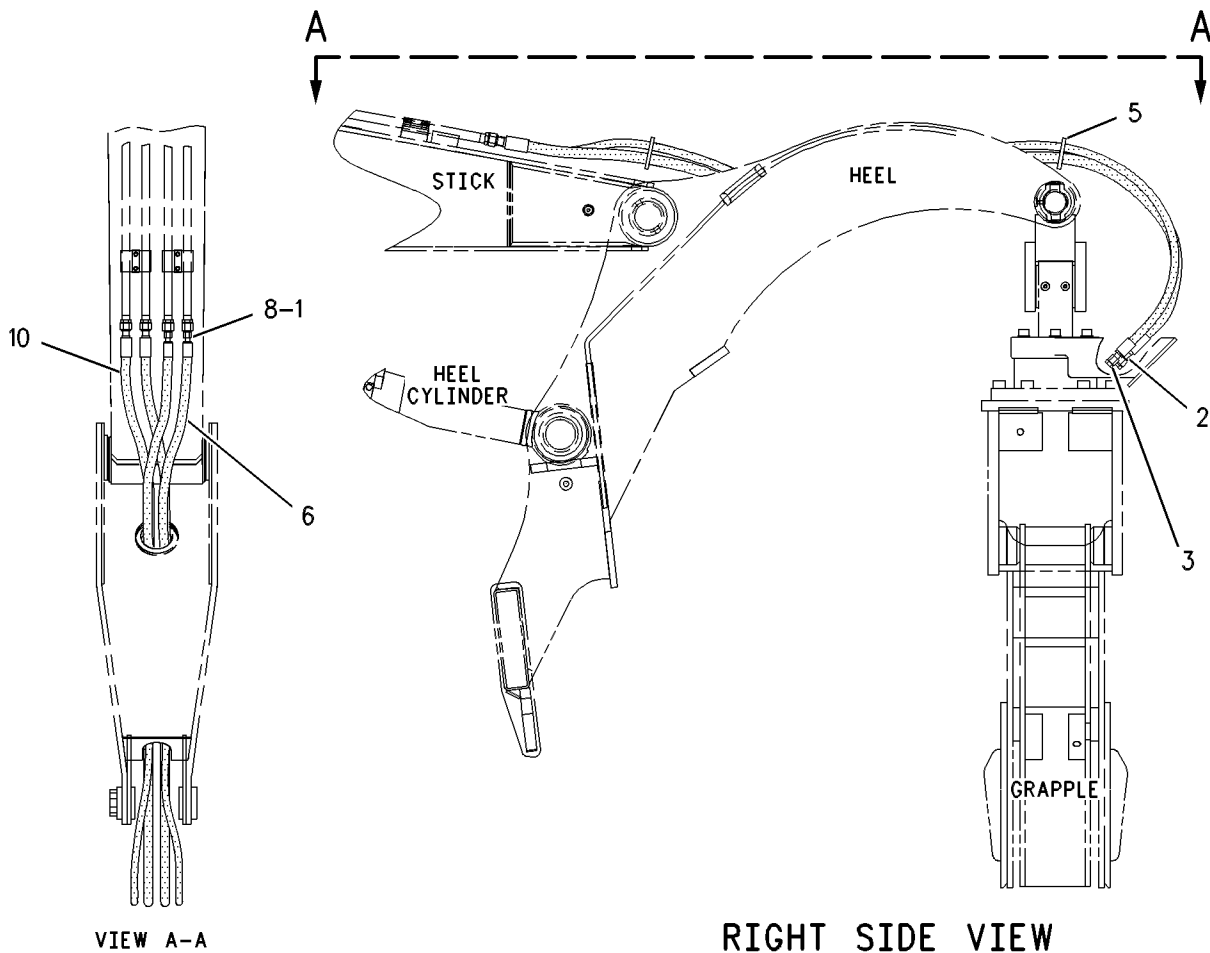
PART OF 192-2353 HEEL GP
AN ATTACHMENT

SMCS-6307

i01105149

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-8418	2	REDUCER AS-ORFS						
					(EACH INCLUDES)						
		1	6V-8398	1	SEAL-O-RING (12.47MM ID)						
		1	6V-8942	1	REDUCER-O-RING						
	2	1	164-5581	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-9511	1	PLUG-FACE SEAL (1-3/16-12 THD)						
		1	6V-9746	1	SEAL-O-RING (18.94MM ID)						
	3	1	150-3072	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-8398	1	SEAL-O-RING (12.47MM ID)						
		1	6V-9509	1	PLUG-FACE SEAL						
	5	1	7K-1181	3	STRAP-CABLE (4.00IN DIA)						
I	6	1	137-5159	2	HOSE AS-ORFS						
	8	1	6V-8556	2	NUT (1 3/16-12 THD)						
I	10	1	137-5160	2	HOSE AS-ORFS						

I- SEE HOSE FABRICATION GUIDE



GRAPHIC #1

g00582404

HYDRAULIC SYSTEM

137-5163 LINES GP-HEEL

S/N: CBY1-UP

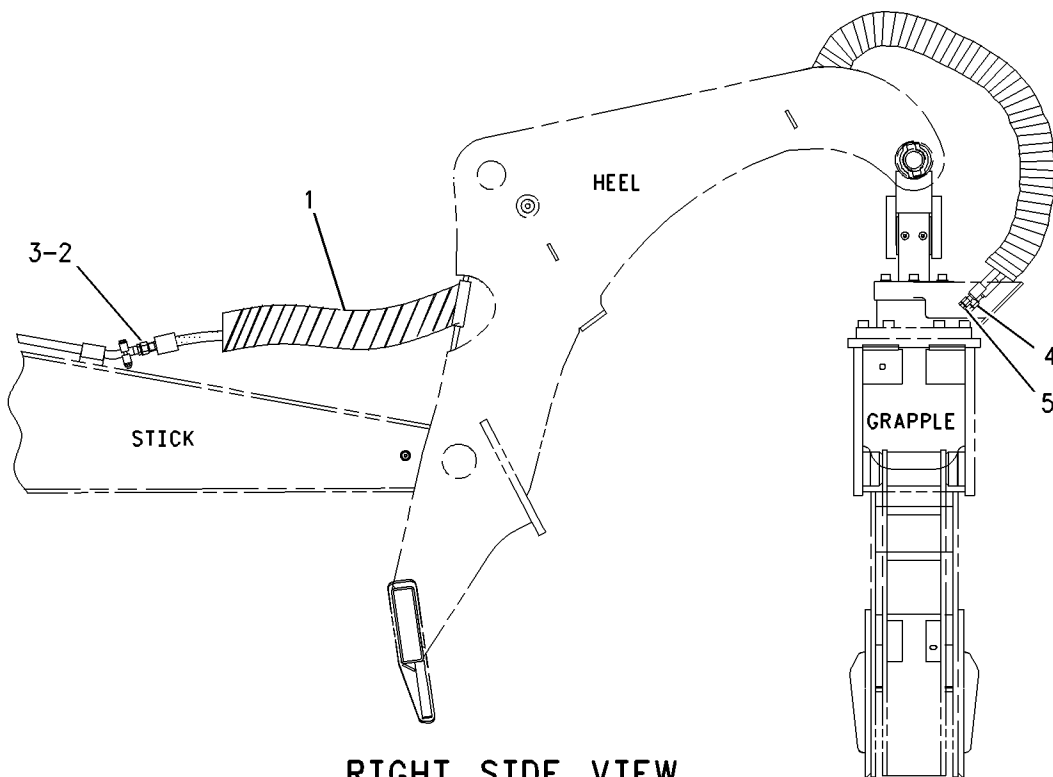
PART OF 192-2354 HEEL GP
FOR USE WITH OVER/UNDER LINKAGE
AN ATTACHMENT

SMCS-6307

i01535853

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	203-5966	1	LINES GP-HEEL						
	2	1	148-8418	2	REDUCER GP-O-RING						
					(EACH INCLUDES)						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8942	1	REDUCER-O-RING (FACE)						
	3	1	6V-8556	2	NUT (1 3/16-12 THD)						
B	4	1	164-5581	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-9511	1	PLUG-FACE SEAL (1-3/16-12 THD)						
		1	6V-9746	1	SEAL-O-RING						
B	5	1	150-3072	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-9509	1	PLUG-FACE SEAL						

B-USE AS REQUIRED



GRAPHIC #1

g00797649

HYDRAULIC SYSTEM

176-4656 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

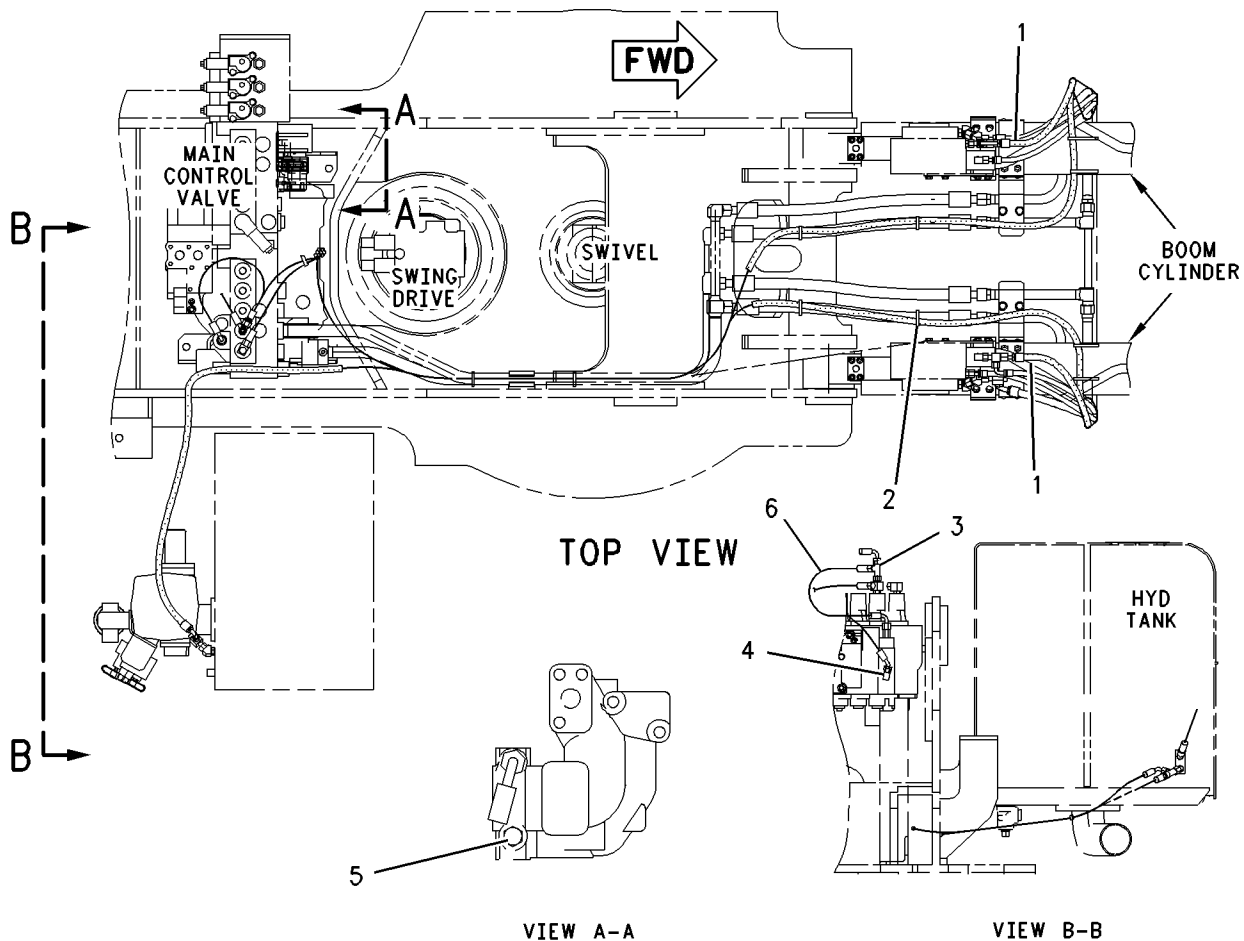
PART OF 171-0178 VALVE AR-CHECK & RELIEF
AN ATTACHMENT

SMCS-5057, 5059

i01458822

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	184-9495	2	HOSE AS						
	2	1	7K-1181	17	STRAP-CABLE						
	3	1	148-8433	2	TEE GP						
					(EACH INCLUDES)						
		1	6V-8397	2	SEAL-O-RING						
		1	6V-9836	1	TEE-SWIVEL						
	4	1	148-8378	1	ELBOW GP						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	1	SEAL-O-RING						
		1	6V-8724	1	ELBOW						
	5	1	148-8407	1	PLUG AS						
		1	3J-1907	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-STRAIGHT THREAD						
I	6	1	4I-0818	1	HOSE AS						

I-SEE HOSE FABRICATION GUIDE



GRAPHIC #1

g00763911

MEMORANDA

HYDRAULIC SYSTEM

184-9270 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP

CAB RISER

PART OF 192-2339 RISER AR-CAB

SMCS-5057, 5059

i01513013

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-8364	1	ELBOW GP						
		1	3K-0360	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8625	1	ELBOW						
	2	1	148-8340	1	CONNECTOR GP						
		1	3K-0360	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8639	1	CONNECTOR						
I	3	2	087-5761	2	HOSE AS						
I	4	2	41-0800	2	HOSE AS						
I	5	2	103-1399	8	HOSE AS						
	6	2	148-8378	2	ELBOW GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8724	1	ELBOW						
	7	2	148-8336	10	CONNECTOR GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8636	1	CONNECTOR						
I	8	2	115-3780	1	HOSE AS						
	9	2	194-0167	1	HOSE AS						
	10	2	194-0169	1	SUPPORT AS						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	11	2	194-0171	1	SUPPORT AS						
M		2	8T-3490	3	NUT-WELD (M10X1.5 THD)						
M	12	2	8T-4136	10	BOLT (M10X1.5X25MM)						
	13	2	8T-4121	10	WASHER-HARD (11X21X2.5MM THK)						
	14	2	6V-8994	12	UNION-BULKHEAD						
	15	2	6V-9168	12	NUT (11/16-16 THD)						
	16	2	6V-8995	2	UNION-BULKHEAD						
	17	2	6V-9169	2	NUT-BULKHEAD (13/16-16 THD)						
	18	2	134-5395	2	BRACKET AS						
					(EACH INCLUDES)						
M		2	6V-9632	3	NUT-WELD (M6X1 THD)						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	19	2	135-0155	1	BRACKET AS						
M		2	6V-9632	2	NUT-WELD (M6X1 THD)						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	20	2	134-5397	2	STRIP						
	21	2	135-0158	1	STRIP						
M	22	2	8T-4138	8	BOLT (M6X1X20MM)						
	23	2	9X-8256	8	WASHER (6.6X12X2MM THK)						
	24	2	6V-0683	2	GROMMET						
	25	2	7V-6571	12	GROMMET						
	26	2	4I-9521	6	BAND-HOSE (L1-RED)						
	27	2	4I-9522	8	BAND-HOSE (L2-YELLOW)						
	28	2	4I-9523	6	BAND-HOSE (L3-BLUE)						
	29	2	4I-9524	2	BAND-HOSE (L4-BROWN)						
	30	2	4I-9525	6	BAND-HOSE (R1-ORANGE)						
	31	2	4I-9526	6	BAND-HOSE (R2-WHITE)						
	32	2	4I-9527	2	BAND-HOSE (R3-GREEN)						
	33	2	4I-9528	2	BAND-HOSE (R4-PURPLE)						
	34	1	115-8645	2	GUARD						

HYDRAULIC SYSTEM

184-9270 LINES GP-PILOT (contd.)

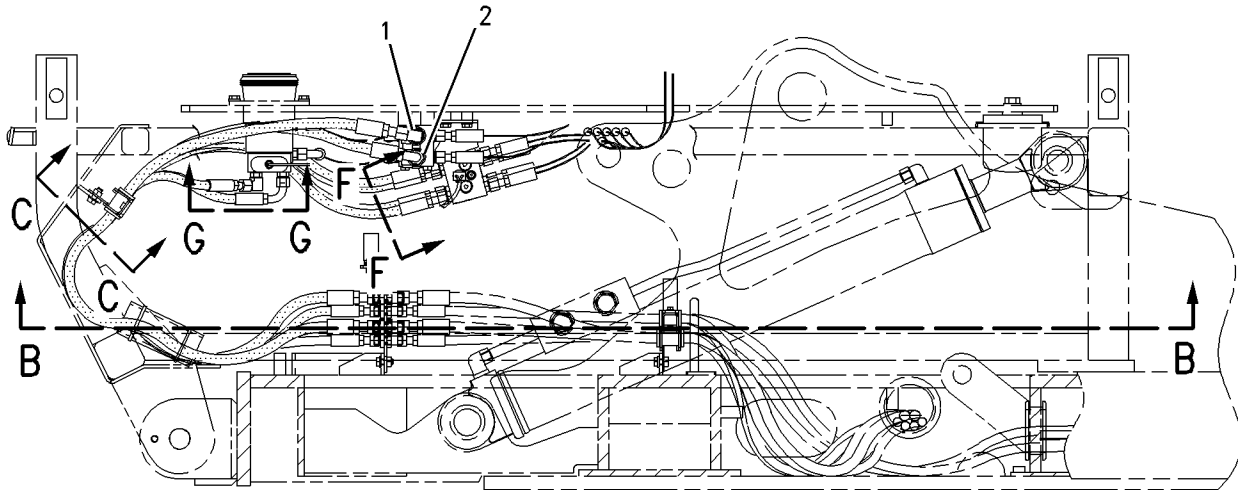
i01513013

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	35	1	7K-1181	4	STRAP - CABLE						
I - SEE HOSE FABRICATION GUIDE											
M - METRIC PART											

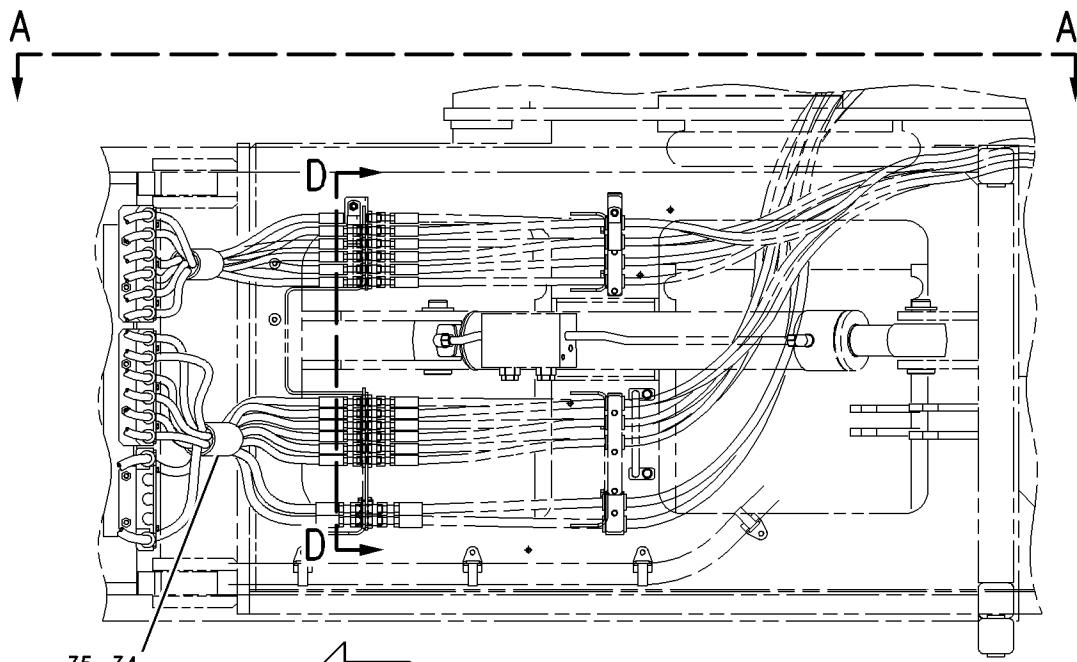
HYDRAULIC SYSTEM

184-9270 LINES GP-PILOT (contd.)

i01513013



VIEW A-A



FWD TOP VIEW

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

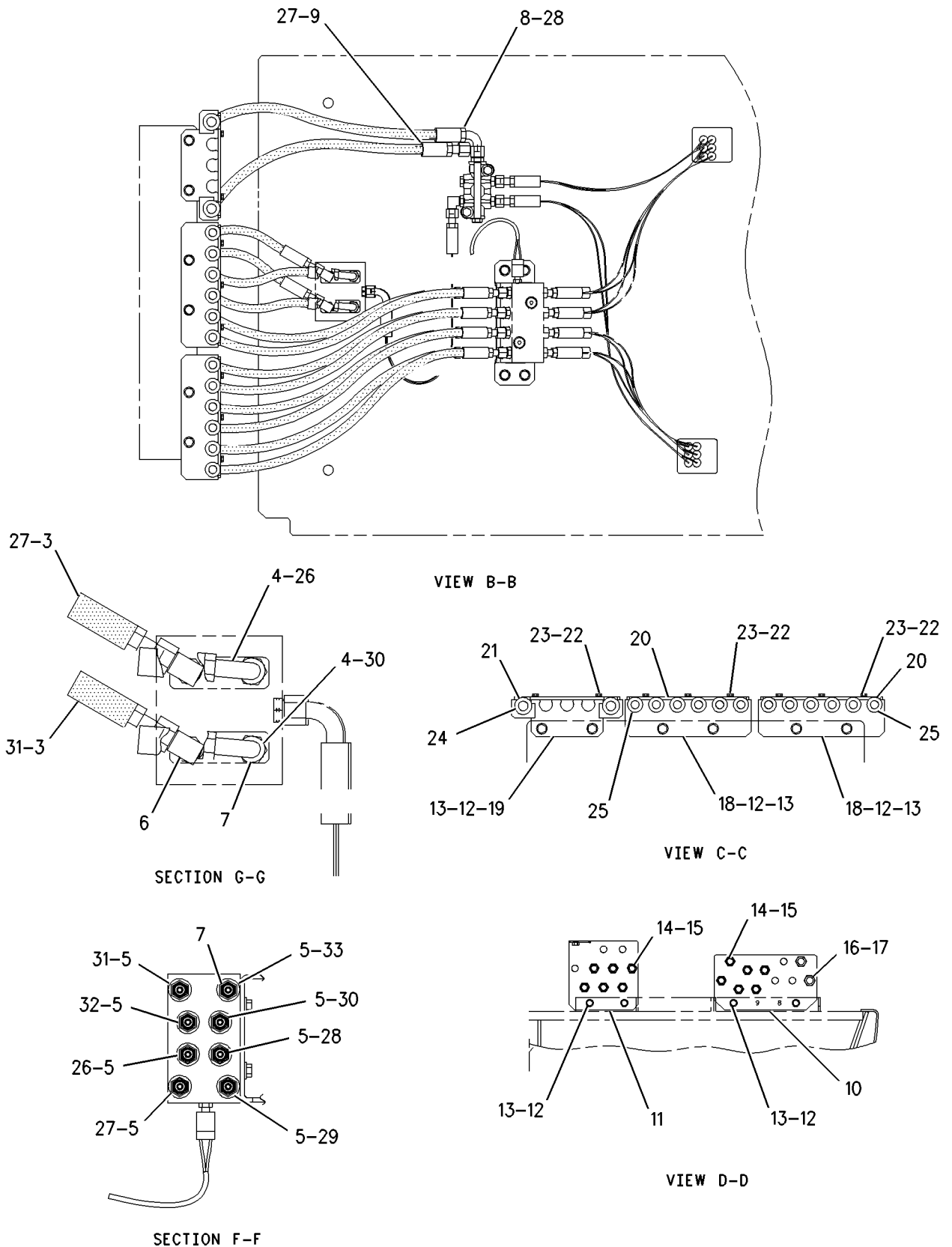
GRAPHIC #1

g00794271

HYDRAULIC SYSTEM

184-9270 LINES GP-PILOT (contd.)

i01513013



GRAPHIC #2

g00794282

HYDRAULIC SYSTEM

187-7159 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP

PART OF 186-3942, 196-3255 HYDRAULIC AR

SMCS-5057, 5059

101503864

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
I	1	1	087-4441	2	HOSE AS	
	2	2	184-9284	1	HOSE AS	
	3	2	165-3328	1	HOSE AS	
	4	2	165-3329	1	HOSE AS	
	5	2	184-9281	1	HOSE AS	
	6	2	184-9285	2	HOSE AS	
	7	2	176-4561	1	HOSE AS	
	8	2	176-4558	2	HOSE AS	
	9	2	184-9286	1	HOSE AS	
	10	2	184-9283	1	HOSE AS	
	11	2	176-4559	1	HOSE AS	
I	12	1	4I-0772	2	HOSE AS	
I	13	1	4I-6033	1	HOSE AS	
I	14	1	7I-1097	1	HOSE AS	
I	15	2	102-7685	3	HOSE AS	
I	16	1	4I-3511	1	HOSE AS	
I	17	2	7Y-4384	2	HOSE AS	
I	18	2	4I-5792	2	HOSE AS	
Y	19	1	187-9973	1	VALVE GP-PILOT	554
Y	20	1	187-9974	1	VALVE GP-PILOT	555
Y	21	1	185-0462	1	VALVE GP-SHUTTLE	580
Y	22	2	158-8250	1	VALVE GP-PILOT	546
	23	2	168-9759	1	BLOCK	
	24	2	167-3466	3	SWITCH GP-PRESSURE (HYDRAULIC OIL)	
					(EACH INCLUDES)	
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)	
	25	2	148-8316	2	CONNECTOR GP	
					(EACH INCLUDES)	
		2	3J-7354	1	SEAL-O-RING	
		2	4J-5477	1	SEAL-O-RING	
		2	6V-8647	1	CONNECTOR	
	26	2	148-8336	23	CONNECTOR GP	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	1	SEAL-O-RING	
		2	6V-8636	1	CONNECTOR	
	27	2	164-5628	3	CONNECTOR AS	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	1	SEAL-O-RING	
		2	107-6631	1	CONNECTOR	
	28	2	148-8435	6	TEE GP	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	2	SEAL-O-RING	
		2	6V-8781	1	TEE-FACE SEAL	
	29	2	148-8378	8	ELBOW GP	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	1	SEAL-O-RING	
		2	6V-8724	1	ELBOW	
	30	2	148-8407	4	PLUG GP	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	9S-4191	1	PLUG-STRAIGHT THREAD (9/16-18 THD)	
	31	1	185-0383	1	BRACKET	

HYDRAULIC SYSTEM

187-7159 LINES GP-PILOT (contd.)

i01503864

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	32	2	194-0156	1	BRACKET AS	
M		2	6V-9632	4	NUT-WELD (M6X1 THD)	
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	33	2	194-0157	1	BRACKET AS	
	34	2	194-0158	1	BRACKET AS	
	35	2	194-0159	1	BRACKET AS	
M		2	6V-9632	3	NUT-WELD (M6X1 THD)	
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	36	2	194-0166	2	STRIP	
	37	2	7V-6571	12	GROMMET	
	38	1	7Y-4529	1	GROMMET	
	39	1	4I-3503	1	GROMMET	
	40	1	184-9159	1	GROMMET	
	41	1	184-9160	1	GROMMET	
	42	1,2	4I-9521	8	BAND-HOSE (L1-RED)	
	43	2	4I-9522	8	BAND-HOSE (L2-YELLOW)	
	44	2	4I-9523	4	BAND-HOSE (L3-BLUE)	
	45	1,2	4I-9524	4	BAND-HOSE (L4-BROWN)	
	46	1,2	4I-9525	8	BAND-HOSE (R1-ORANGE)	
	47	1,2	4I-9526	8	BAND-HOSE (R2-WHITE)	
	48	1,2	4I-9527	4	BAND-HOSE (R3-GREEN)	
	49	2	4I-9528	4	BAND-HOSE (R4-PURPLE)	
	50	2	133-5813	4	BAND-HOSE (P-GRAY)	
M	51	1	6V-7357	6	BOLT (M6X1.0X25MM)	
M	52	2	7X-2534	6	BOLT (M6X1X50MM)	
M	53	2	8T-4138	1	BOLT (M6X1X20MM)	
M	54	2	8T-4136	4	BOLT (M10X1.5X25MM)	
M	55	1,2	8T-4137	11	BOLT (M10X1.5X20MM)	
M	56	2	8T-4198	2	BOLT (M10X1.5X100MM)	
	57	1,2	8T-4121	15	WASHER-HARD (11X21X2.5MM THK)	
	58	1,2	9X-8256	13	WASHER (6.6X12X2MM THK)	
	59	1	7K-1181	13	STRAP-CABLE	

I-SEE HOSE FABRICATION GUIDE

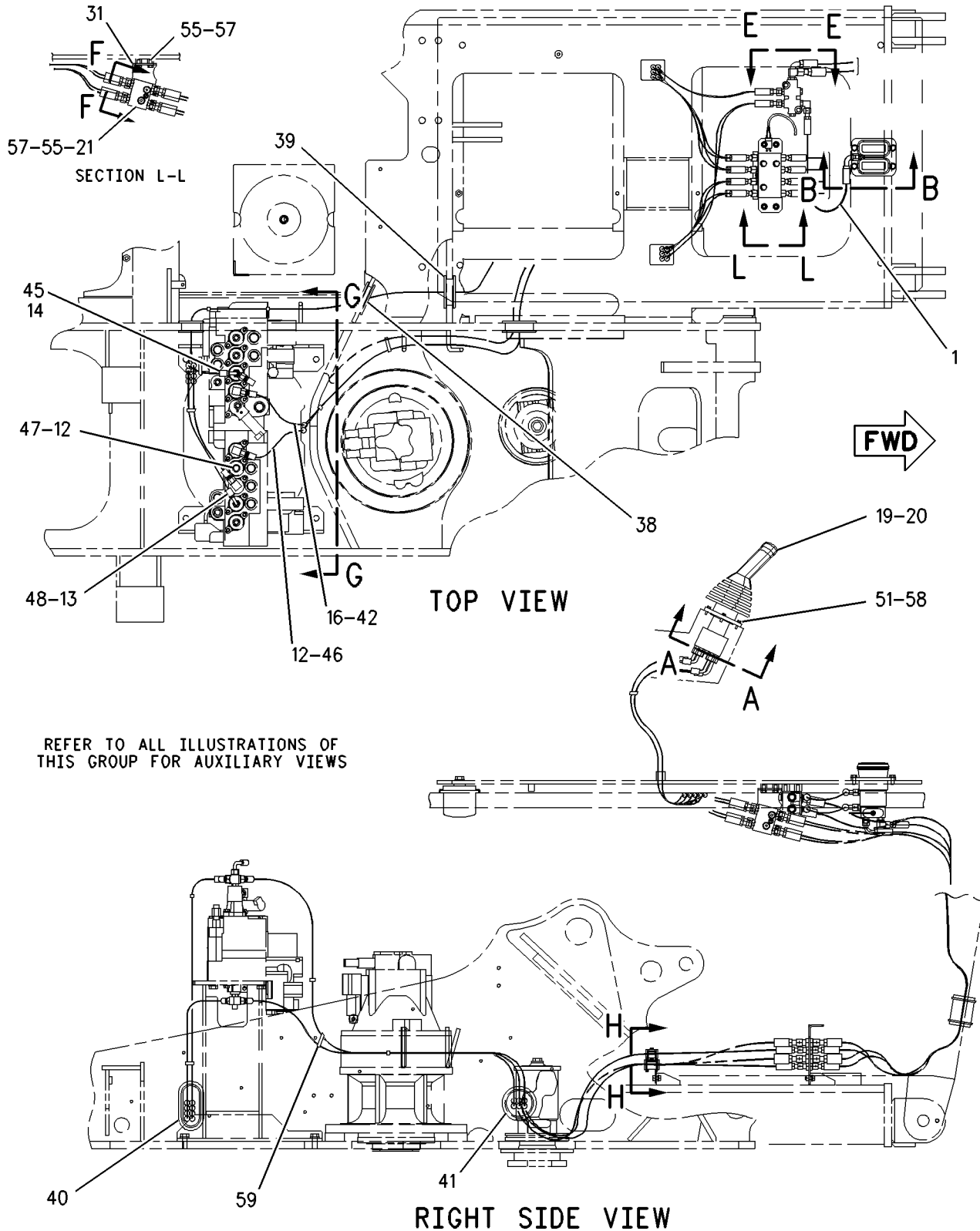
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Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7159 LINES GP-PILOT (contd.)

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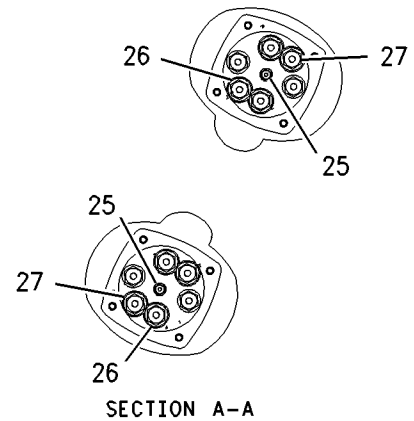
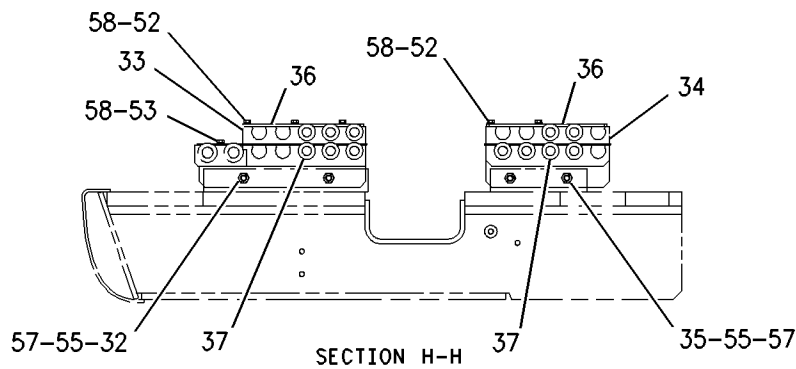
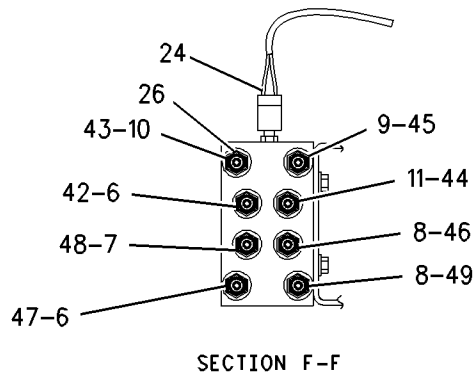
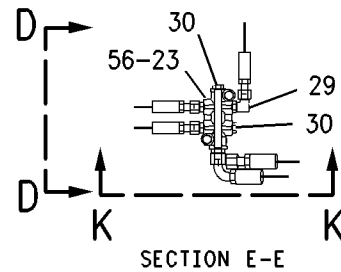
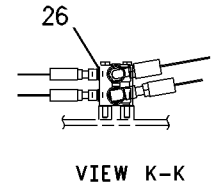
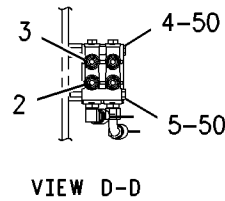
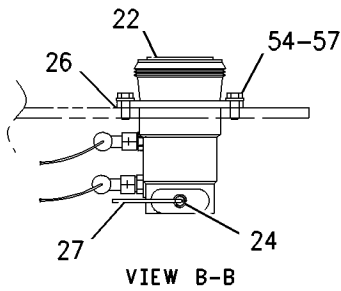
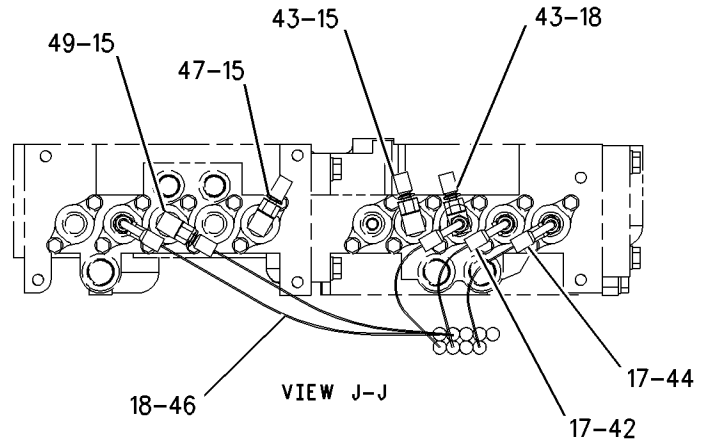
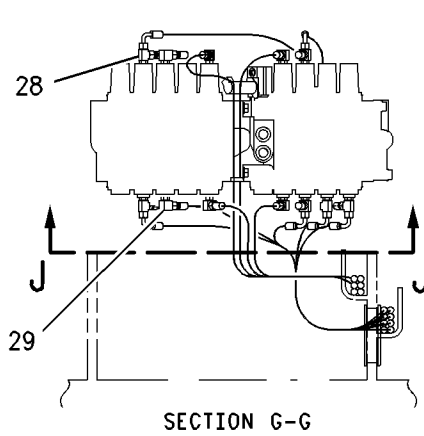
GRAPHIC #1

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HYDRAULIC SYSTEM

187-7159 LINES GP-PILOT (contd.)

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GRAPHIC #2

g00799179

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP

PART OF 186-3942, 196-3255 HYDRAULIC AR

SMCS-5057, 5059

101503892

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	2	187-5676	1	HOSE AS	
	2	1	187-6730	1	HOSE AS	
	3	1	184-9244	1	HOSE AS	
	4	3	184-9143	1	HOSE AS	
I	5	1	5I-4393	1	HOSE AS	
I	6	2	176-4768	1	HOSE AS	
	7	1	184-9147	1	HOSE AS	
	8	1	184-9146	1	HOSE AS	
	9	1	184-9156	1	HOSE AS	
	10	1	184-9148	1	HOSE AS	
I	11	4	184-9593	1	HOSE AS	
I	12	4	184-9595	1	HOSE AS	
I	13	4	4I-1739	1	HOSE AS	
I	14	2, 4	087-4531	2	HOSE AS	
I	15	2	087-5760	1	HOSE AS	
I	16	2	5I-8708	1	HOSE AS	
I	17	2	184-9158	1	HOSE AS	
	18	1	184-9154	1	HOSE AS	
I	19	2	104-8838	1	HOSE AS	
I	20	2	176-4472	1	HOSE AS	
I	21	2	4I-0836	1	HOSE AS	
I	22	2	087-5774	1	HOSE AS	
I	23	2	087-4534	1	HOSE AS	
I	24	2	143-4254	1	HOSE AS	
I	25	2	087-5772	1	HOSE AS	
I	26	2	164-8977	1	HOSE AS	
I	27	1	176-4769	1	HOSE AS	
I	28	2	5I-4396	1	HOSE AS	
	29	3	187-6735	1	HOSE AS	
	30	2	184-9144	1	HOSE AS	
I	31	2	087-4411	1	HOSE AS	
I	32	1	087-5771	1	HOSE AS	
I	33	2	164-8983	1	HOSE AS	
I	34	4	087-5762	1	HOSE AS	
	35	1	184-9155	1	HOSE AS	
	36	1	184-9151	1	HOSE AS	
I	37	2	087-5776	1	HOSE AS	
I	38	2	176-4569	1	HOSE AS	
I	39	2	4I-5906	1	HOSE AS	
I	40	3	104-8821	1	HOSE AS	
	41	1	187-7067	2	HOSE AS	
	42	4	176-4469	1	BLOCK	
Y	43	4	164-6981	1	ACCUMULATOR GP-HYDRAULIC	278
Y	44	3	158-8251	1	VALVE GP-PILOT	548
Y	45	3	123-2430	1	VALVE GP-SHUTTLE	579
Y	46	4	158-8274	1	VALVE GP-PRESSURE REDUCING	561
	47	1	157-3182	2	SENSOR AS-PRESSURE	
					(EACH INCLUDES)	
		1	126-1767	3	CONNECTOR-PIN	
		1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)	
		1	3K-0360	1	SEAL-O-RING	
48	2	164-5558	1	STOP AS		
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	5I-4371	1	STOP	
		2	6V-8397	1	SEAL-O-RING	

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

i01503892

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	49	3	176-4463	1	PLATE	
	50	1,2,3,4	148-8336	10	CONNECTOR GP	
					(EACH INCLUDES)	
		1,2,3,4	3J-1907	1	SEAL-O-RING	
		1,2,3,4	6V-8397	1	SEAL-O-RING	
		1,2,3,4	6V-8636	1	CONNECTOR	
	51	3	148-8340	5	CONNECTOR GP	
					(EACH INCLUDES)	
		3	3K-0360	1	SEAL-O-RING	
		3	6V-8398	1	SEAL-O-RING	
		3	6V-8639	1	CONNECTOR	
	52	2	164-5608	1	CONNECTOR GP	
		2	3K-0360	1	SEAL-O-RING	
		2	6V-8398	1	SEAL-O-RING	
		2	8T-1687	1	CONNECTOR	
	53	3	148-8327	2	CONNECTOR GP	
					(EACH INCLUDES)	
		3	3D-2824	1	SEAL-O-RING	
		3	6V-8637	1	CONNECTOR-SEAL	
		3	6V-9746	1	SEAL-O-RING	
	54	1,4	148-8338	3	CONNECTOR GP	
					(EACH INCLUDES)	
		1,4	3J-1907	1	SEAL-O-RING	
		1,4	6V-8397	1	SEAL-O-RING	
		1,4	8T-0075	1	CONNECTOR	
	55	1,2,3	148-8364	4	ELBOW GP	
					(EACH INCLUDES)	
		1,2,3	3K-0360	1	SEAL-O-RING	
		1,2,3	6V-8398	1	SEAL-O-RING	
		1,2,3	6V-8625	1	ELBOW	
	56	1,2,3	148-8353	8	ELBOW GP	
					(EACH INCLUDES)	
		1,2,3	3J-1907	1	SEAL-O-RING	
		1,2,3	6V-8397	1	SEAL-O-RING	
		1,2,3	6V-9001	1	ELBOW	
	57	1,2,3,4	148-8378	12	ELBOW GP	
					(EACH INCLUDES)	
		1,2,3,4	3J-1907	1	SEAL-O-RING	
		1,2,3,4	6V-8397	1	SEAL-O-RING	
		1,2,3,4	6V-8724	1	ELBOW	
	58	3	148-8358	1	ELBOW AS	
		3	2M-9780	1	SEAL-O-RING	
		3	6V-8398	1	SEAL-O-RING	
		3	6V-8624	1	ELBOW	
	59	3	153-6237	1	ELBOW GP	
		3	3D-2824	1	SEAL-O-RING	
		3	6V-9004	1	ELBOW	
		3	6V-9746	1	SEAL-O-RING	
	60	1,3,4	148-8354	4	ELBOW GP	
					(EACH INCLUDES)	
		1,3,4	3K-0360	1	SEAL-O-RING	
		1,3,4	6V-8398	1	SEAL-O-RING	
		1,3,4	6V-9002	1	ELBOW	
	61	1,2	148-8347	2	ELBOW GP	
					(EACH INCLUDES)	
		1,2	3D-2824	1	SEAL-O-RING	
		1,2	6V-9007	1	ELBOW	
		1,2	6V-9746	1	SEAL-O-RING	
	62	3	148-8371	1	ELBOW GP	

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

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NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
		3	6V-8397	1	SEAL-O-RING						
		3	8C-8988	1	ELBOW (45 DEGREE)						
	63	2,4	148-8433	3	TEE GP						
					(EACH INCLUDES)						
		2,4	6V-8397	2	SEAL-O-RING						
		2,4	6V-9836	1	TEE-SWIVEL						
	64	2,4	148-8435	4	TEE GP						
					(EACH INCLUDES)						
		2,4	3J-1907	1	SEAL-O-RING						
		2,4	6V-8397	2	SEAL-O-RING						
		2,4	6V-8781	1	TEE-FACE SEAL						
	65	2	148-8439	2	TEE GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	2	SEAL-O-RING						
		2	6V-8774	1	TEE						
	66	1,3	164-6872	2	TEE AS						
					(EACH INCLUDES)						
		1,3	2M-9780	1	SEAL-O-RING						
		1,3	6V-8398	2	SEAL-O-RING						
		1,3	115-8634	1	TEE-O-RING						
	67	2,3	148-8407	6	PLUG GP						
					(EACH INCLUDES)						
		2,3	3J-1907	1	SEAL-O-RING						
		2,3	9S-4191	1	PLUG-STRAIGHT THREAD						
	68	3	124-1212	1	FITTING						
	69	3	148-8415	1	REDUCER GP						
		3	6V-8397	1	SEAL-O-RING						
		3	6V-8936	1	REDUCER						
	70	1,3	6V-3965	5	FITTING						
	71	1,3	6V-0852	5	CAP-DUST						
	72	1,3	3J-1907	5	SEAL-O-RING						
	73	2,3	6V-8397	4	SEAL-O-RING						
	74	3	3D-2824	1	SEAL-O-RING						
	75	3	6V-9746	1	SEAL-O-RING						
	76	1	4K-8864	1	CLIP (14.29MM ID)						
	77	2,3	6D-1641	3	CLIP						
	78	2	5P-7464	1	CLIP (SLOT)						
	79	2	5P-7465	1	CLIP (TAB)						
	80	1	6D-4246	2	CLIP						
	81	1	5K-8451	1	CLIP						
	82	2	165-3312	1	GROMMET						
	83	2	6V-7359	1	GROMMET						
	84	1	6V-0683	2	GROMMET						
	85	2	103-1384	1	GUARD						
	86	1,2	7K-1181	14	STRAP-CABLE						
	87	2	4I-9521	2	BAND-HOSE (L1-RED)						
	88	1	4I-9522	2	BAND-HOSE (L2-YELLOW)						
	89	1	4I-9523	4	BAND-HOSE (L3-BLUE)						
	90	1	4I-9524	2	BAND-HOSE (L4-BROWN)						
	91	1	4I-9525	2	BAND-HOSE (R1-ORANGE)						
	92	1,2,3	4I-9527	6	BAND-HOSE (R3-GREEN)						
	93	2,4	4I-9528	4	BAND-HOSE (R4-PURPLE)						
M	94	3	099-3649	2	BOLT (M8X1.25X40MM)						
M	95	3	8T-4136	1	BOLT (M10X1.5X25MM)						
M	96	2	8T-4191	2	BOLT (M10X1.5X16MM)						
M	97	4	8T-1159	2	BOLT-SOCKET HEAD (M10X1.5X25MM)						
M	98	4	8T-4172	2	BOLT (M10X1.5X80MM)						
M	99	1,3	8T-4137	5	BOLT (M10X1.5X20MM)						

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

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NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	100	1	8T-4196	1	BOLT (M10X1.5X35MM)						
M	101	2	8T-4139	1	BOLT (M12X1.75X30MM)						
M	102	3	8T-4192	3	BOLT (M12X1.75X25MM)						
M	103	1	8T-4133	1	NUT (M10X1.5 THD)						
	104	1,2,3,4	8T-4121	10	WASHER-HARD (11X21X2.5MM THK)						
	105	2,3	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)						

I-SEE HOSE FABRICATION GUIDE

M-METRIC PART

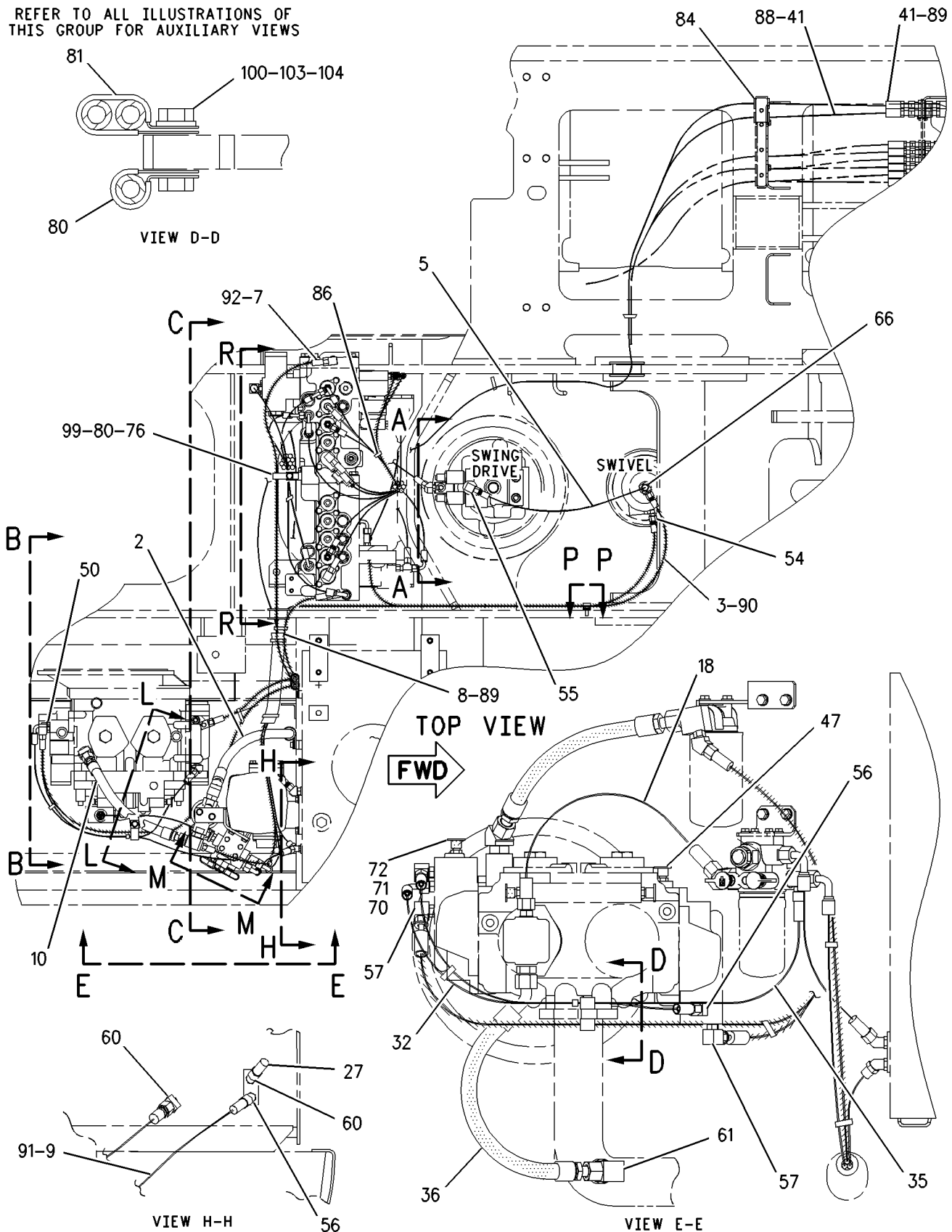
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

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REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



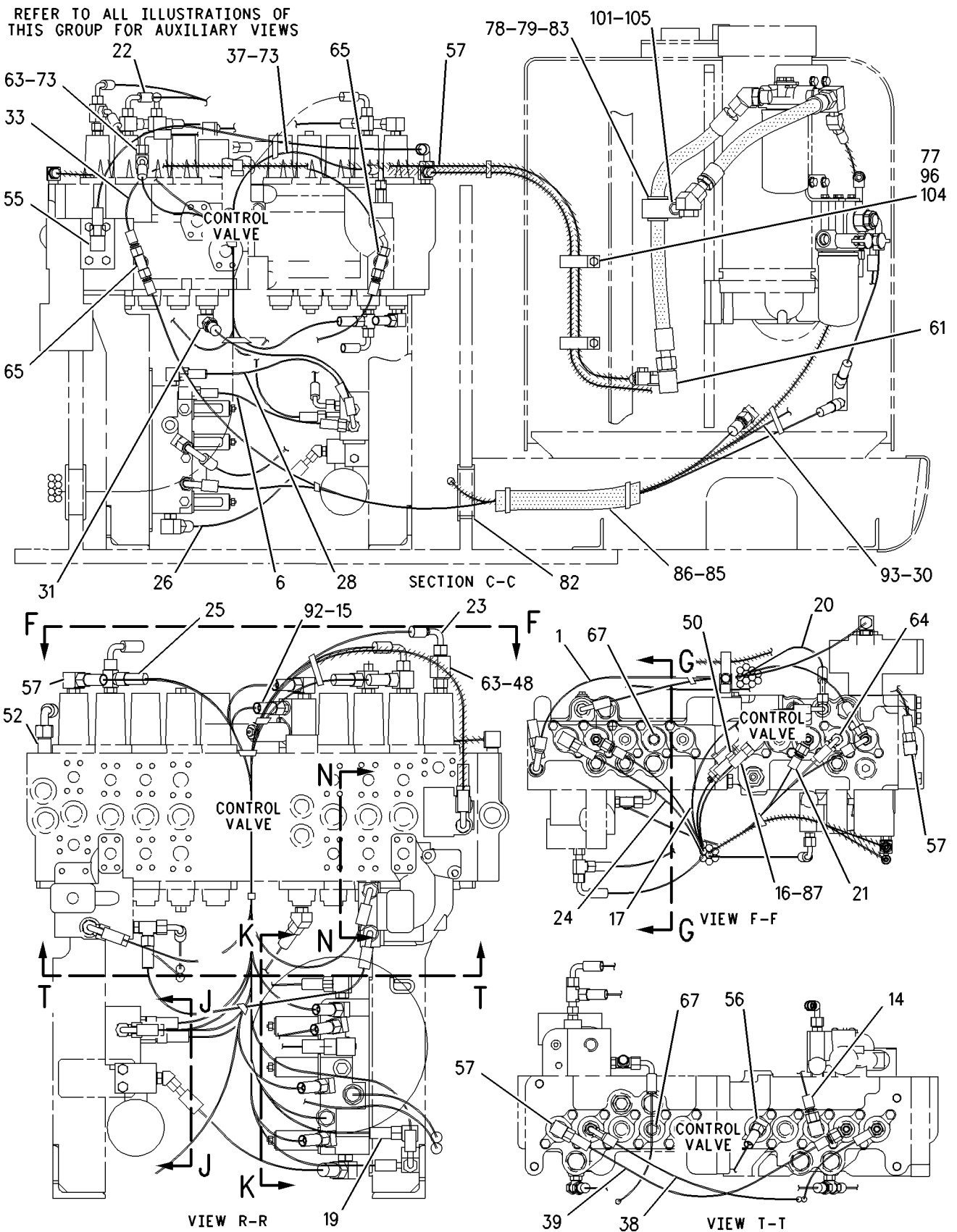
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HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

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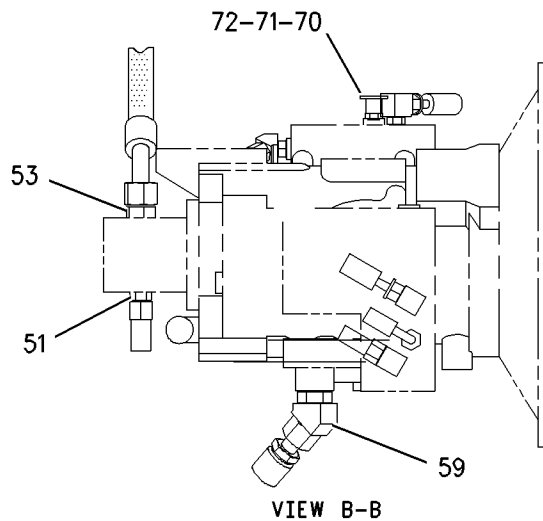
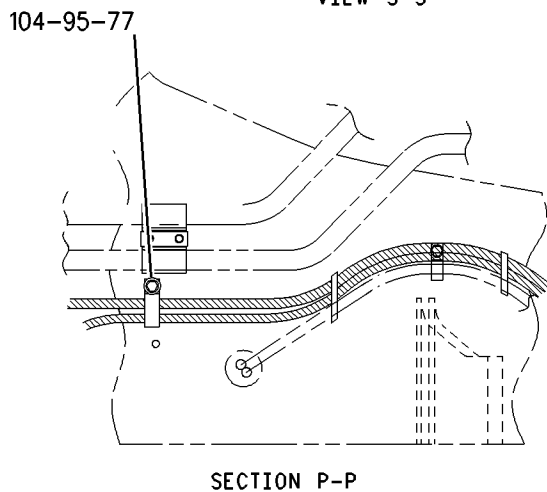
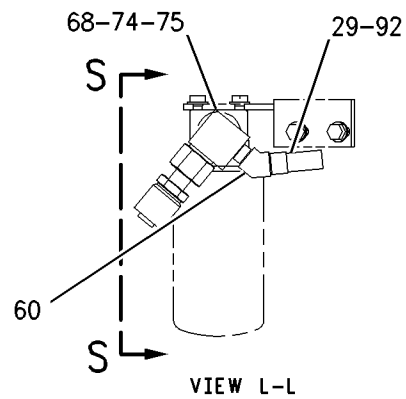
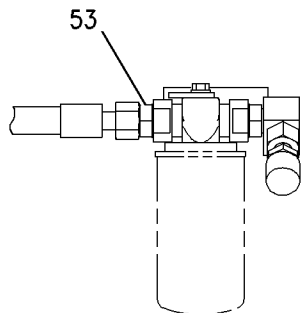
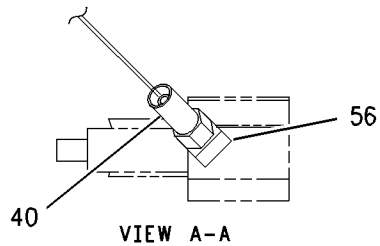
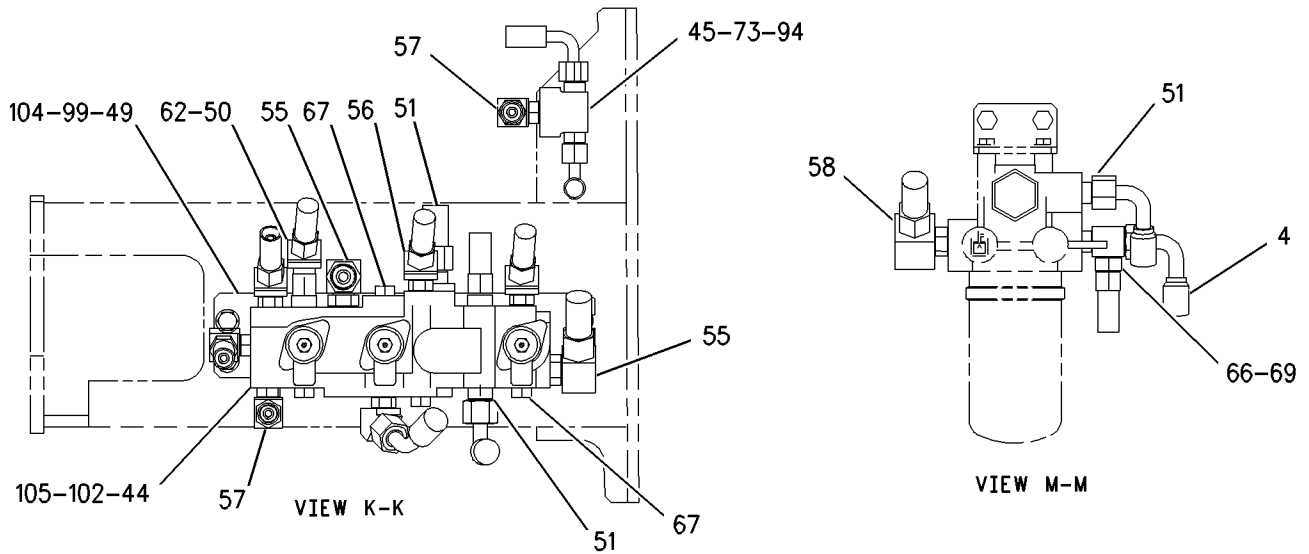
GRAPHIC #2

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HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

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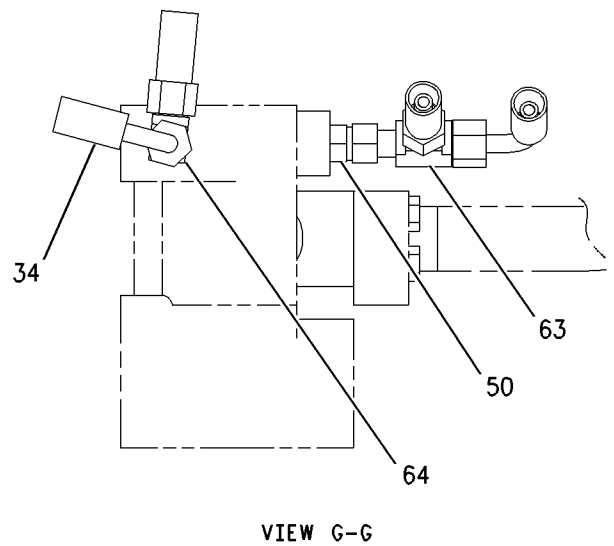
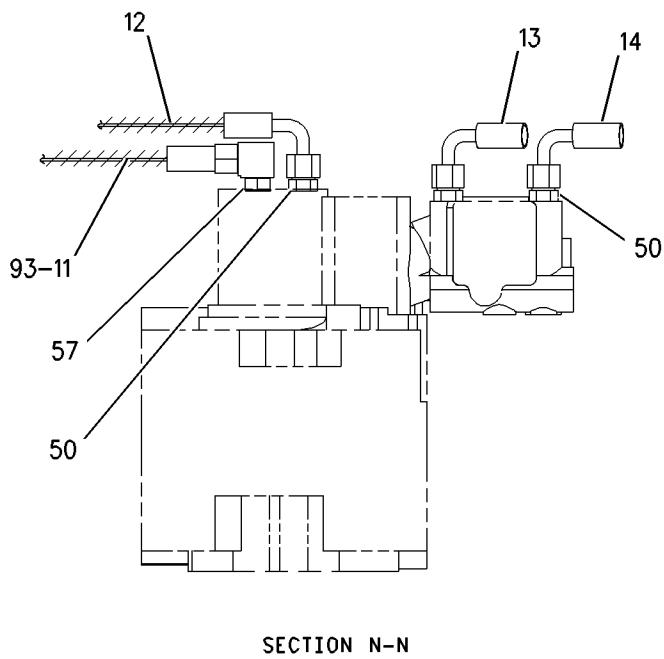
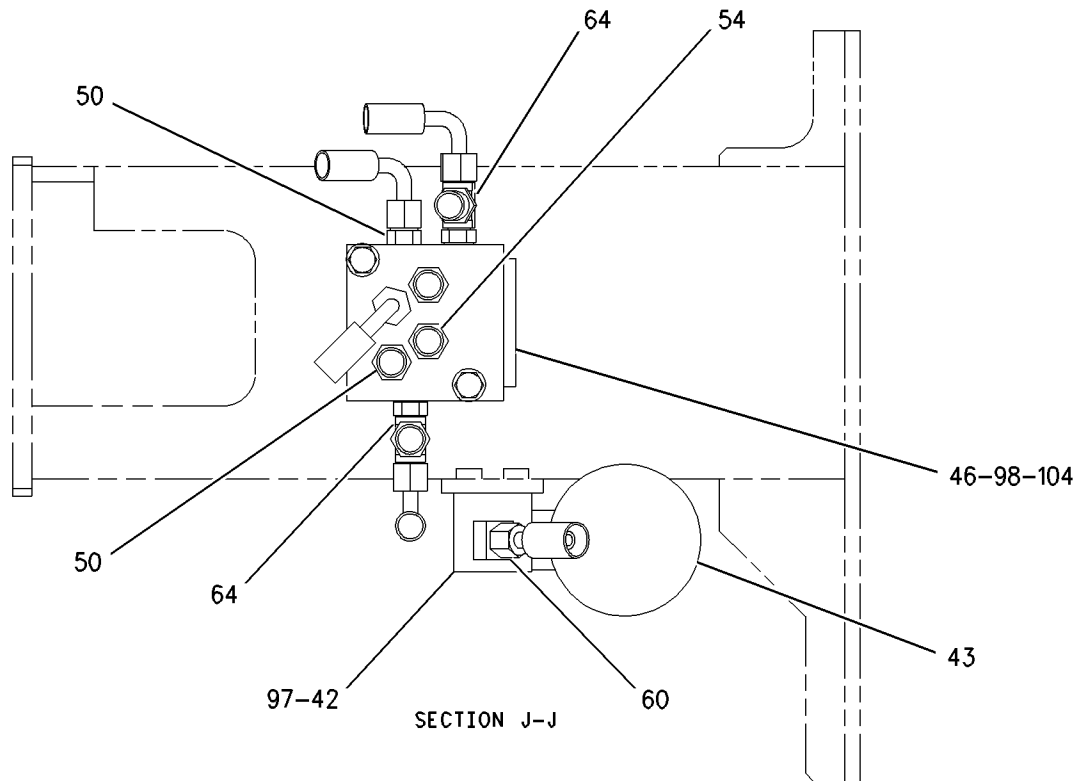
GRAPHIC #3

g00795620

HYDRAULIC SYSTEM

187-7160 LINES GP-PILOT (contd.)

i01503892



GRAPHIC #4

g00795621

HYDRAULIC SYSTEM

187-7163 LINES GP-PILOT

S/N: CBY1-UP

PART OF 186-3943 HYDRAULIC AR

SMCS-5057, 5059

i01547102

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	087-4441	2	HOSE	AS					
	2	3	184-9284	1	HOSE	AS					
	3	3	165-3328	1	HOSE	AS					
	4	3	165-3329	1	HOSE	AS					
	5	3	184-9281	1	HOSE	AS					
	6	2	184-9285	2	HOSE	AS					
	7	2	176-4561	1	HOSE	AS					
	8	2	176-4558	2	HOSE	AS					
	9	2	184-9286	1	HOSE	AS					
	10	2	184-9283	1	HOSE	AS					
	11	2	176-4559	1	HOSE	AS					
I	12	1	4I-0772	2	HOSE	AS					
I	13	1	4I-6033	1	HOSE	AS					
I	14	1	7I-1097	1	HOSE	AS					
I	15	2	102-7685	3	HOSE	AS					
I	16	1	4I-3511	1	HOSE	AS					
I	17	2	7Y-4384	2	HOSE	AS					
I	18	2	4I-5792	2	HOSE	AS					
Y	19	2	187-9973	1	VALVE	GP-PILOT					554
Y	20	2	187-9974	1	VALVE	GP-PILOT					555
Y	21	1	185-0462	1	VALVE	GP-SHUTTLE					580
Y	22	3	158-8250	1	VALVE	GP-PILOT					546
	23	3	168-9759	1	BLOCK						
	24	2,3	167-3466	4	SWITCH	GP-PRESSURE (HYDRAULIC OIL)					
					(EACH INCLUDES)						
		2,3	102-8802	1	KIT-RECEPTACLE (2 PIN)						
	25	2	148-8316	2	CONNECTOR	GP					
					(EACH INCLUDES)						
		2	3J-7354	1	SEAL-O-RING						
		2	4J-5477	1	SEAL-O-RING						
		2	6V-8647	1	CONNECTOR						
	26	2,3	148-8336	33	CONNECTOR	GP					
					(EACH INCLUDES)						
		2,3	3J-1907	1	SEAL-O-RING						
		2,3	6V-8397	1	SEAL-O-RING						
		2,3	6V-8636	1	CONNECTOR						
	27	2,3	164-5628	3	CONNECTOR	AS					
					(EACH INCLUDES)						
		2,3	3J-1907	1	SEAL-O-RING						
		2,3	6V-8397	1	SEAL-O-RING						
		2,3	107-6631	1	CONNECTOR						
	28	2	148-8435	6	TEE	GP					
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	2	SEAL-O-RING						
		2	6V-8781	1	TEE-FACE SEAL						
	29	2,3	148-8378	12	ELBOW	GP					
					(EACH INCLUDES)						
		2,3	3J-1907	1	SEAL-O-RING						
		2,3	6V-8397	1	SEAL-O-RING						
		2,3	6V-8724	1	ELBOW						
	30	3	148-8407	2	PLUG	GP					
					(EACH INCLUDES)						
		3	3J-1907	1	SEAL-O-RING						
		3	9S-4191	1	PLUG-STRAIGHT THREAD						
	31	1	185-0383	1	BRACKET						

HYDRAULIC SYSTEM

187-7163 LINES GP-PILOT (contd.)

i01547102

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	32	2	194-0156	1	BRACKET AS	
M		2	6V-9632	4	NUT-WELD (M6X1 THD)	
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	33	2	194-0157	1	BRACKET AS	
	34	2	194-0158	1	BRACKET AS	
	35	2	194-0159	1	BRACKET AS	
M		2	6V-9632	3	NUT-WELD (M6X1 THD)	
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)	
	36	2	194-0166	2	STRIP	
	37	2	7V-6571	12	GROMMET	
	38	1	7Y-4529	1	GROMMET	
	39	1	4I-3503	1	GROMMET	
	40	1	184-9159	1	GROMMET	
	41	1	184-9160	1	GROMMET	
	42	1, 2	4I-9521	8	BAND-HOSE (L1-RED)	
	43	2	4I-9522	8	BAND-HOSE (L2-YELLOW)	
	44	2	4I-9523	4	BAND-HOSE (L3-BLUE)	
	45	1, 2	4I-9524	4	BAND-HOSE (L4-BROWN)	
	46	1, 2	4I-9525	8	BAND-HOSE (R1-ORANGE)	
	47	1, 2	4I-9526	8	BAND-HOSE (R2-WHITE)	
	48	1, 2	4I-9527	4	BAND-HOSE (R3-GREEN)	
	49	2	4I-9528	4	BAND-HOSE (R4-PURPLE)	
	50	3	133-5813	4	BAND-HOSE (P-GRAY)	
M	51	2	6V-7357	6	BOLT (M6X1.0X25MM)	
M	52	2	7X-2534	6	BOLT (M6X1X50MM)	
M	53	2	8T-4138	1	BOLT (M6X1X20MM)	
M	54	3	8T-4136	6	BOLT (M10X1.5X25MM)	
M	55	1, 2	8T-4137	11	BOLT (M10X1.5X20MM)	
M	56	3	8T-4198	2	BOLT (M10X1.5X100MM)	
	57	1, 2, 3	8T-4121	20	WASHER-HARD (11X21X2.5MM THK)	
	58	2	9X-8256	13	WASHER (6.6X12X2MM THK)	
	59	1	7K-1181	13	STRAP-CABLE	
	60	3	164-0617	1	SUPPORT AS	
M	61	3	8T-4191	1	BOLT (M10X1.5X16MM)	
Y	62	3	185-0512	1	VALVE GP-PILOT	553
I	63	3	087-4531	2	HOSE AS	
	64	3	164-5629	1	FITTING AS	
		3	3J-1907	1	SEAL-O-RING	
		3	108-7516	1	FITTING	
I	65	3	4I-0818	2	HOSE AS	
	66	3	176-4542	2	HOSE AS	
I	67	3	087-4411	2	HOSE AS	
Y	68	3	112-0083	1	VALVE GP-SHUTTLE	578
M	69	3	8T-4185	2	BOLT (M10X1.5X50MM)	
	70	3	150-4044	2	CONNECTOR GP	
					(EACH INCLUDES)	
		3	3J-1907	1	SEAL-O-RING	
		3	6V-8397	1	SEAL-O-RING	
		3	8T-1779	1	CONNECTOR	
	71	3	6V-9850	4	ELBOW-SWIVEL	
	72	3	6V-8397	4	SEAL-O-RING	

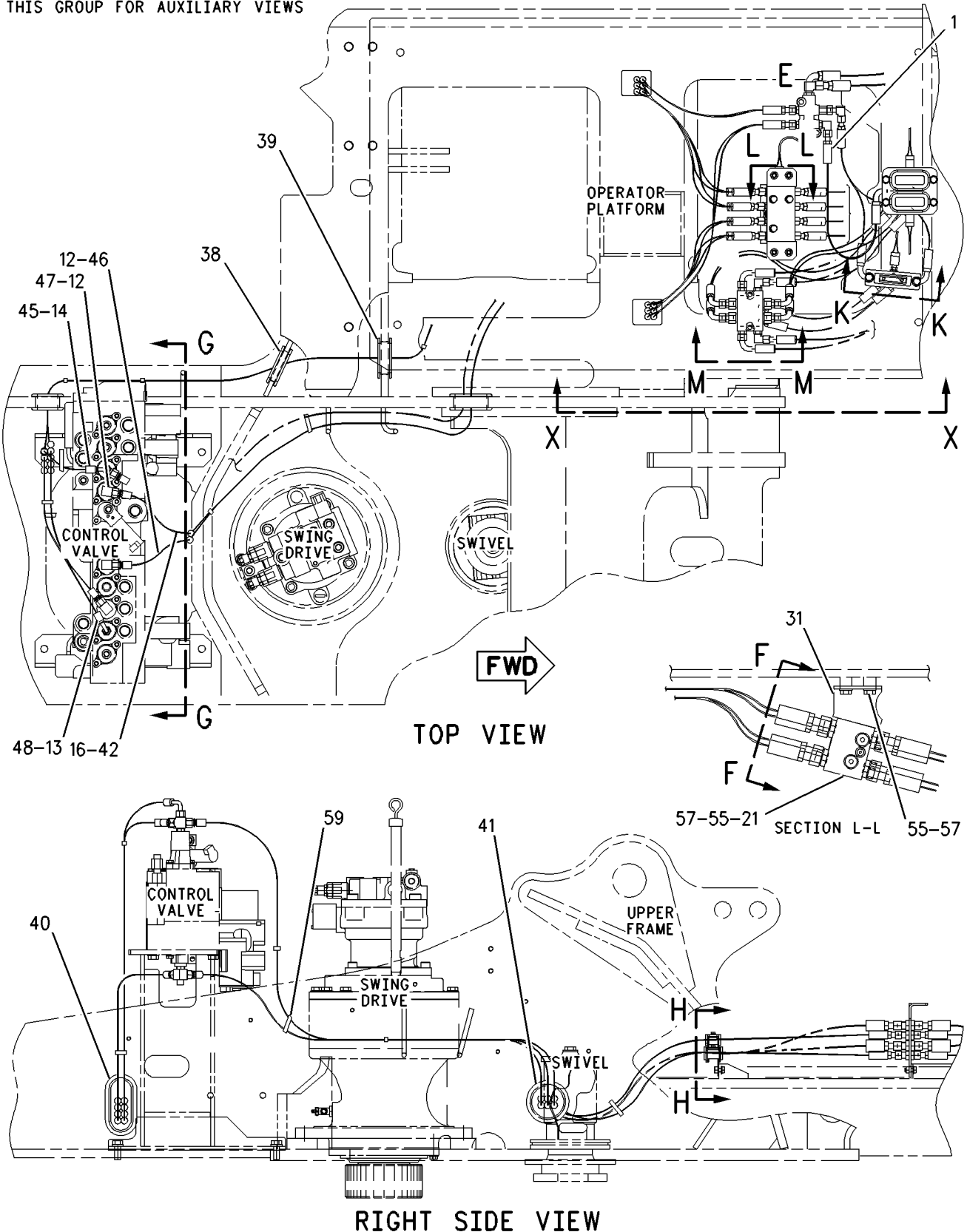
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7163 LINES GP-PILOT (contd.)

i01547102

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



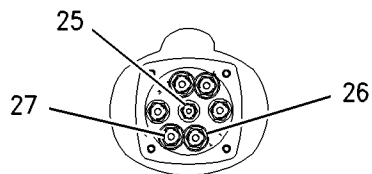
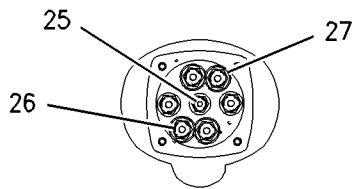
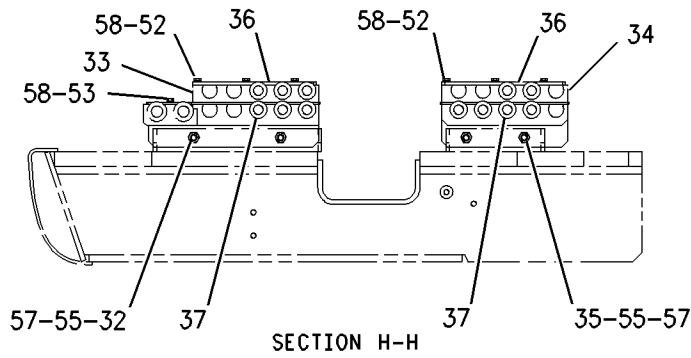
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g00793456

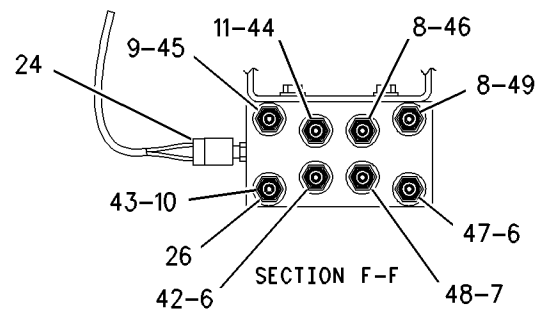
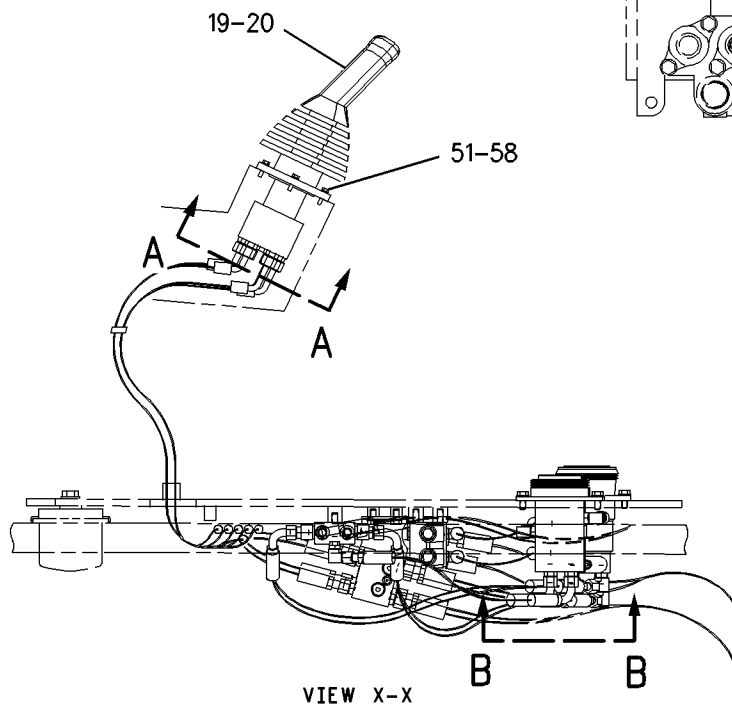
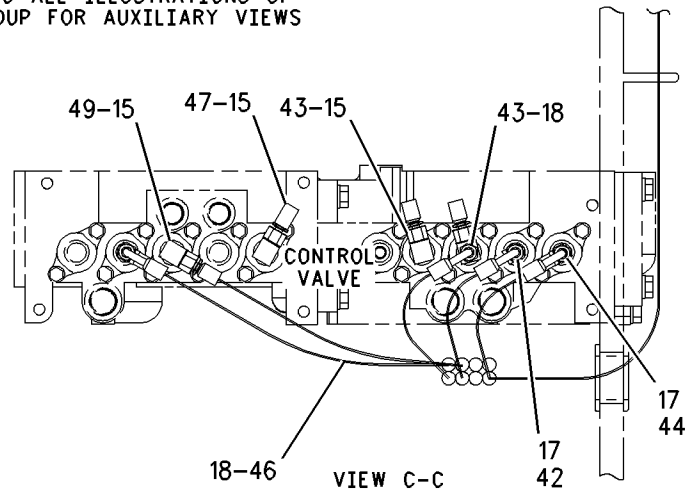
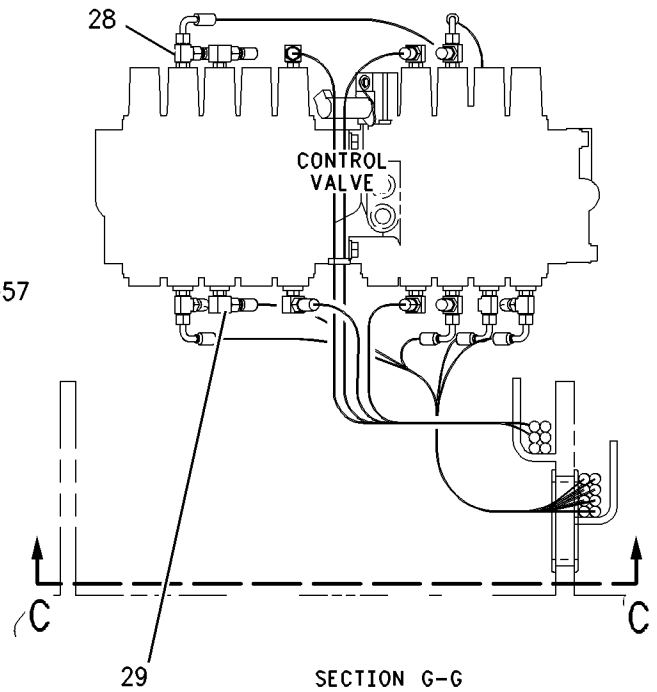
HYDRAULIC SYSTEM

187-7163 LINES GP-PILOT (contd.)

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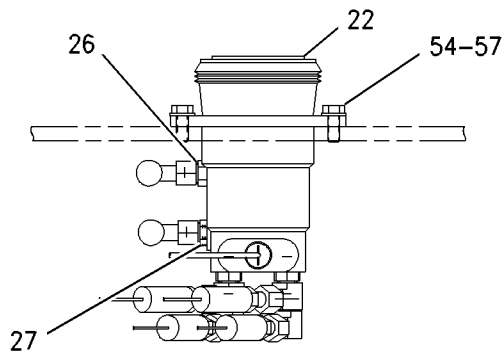
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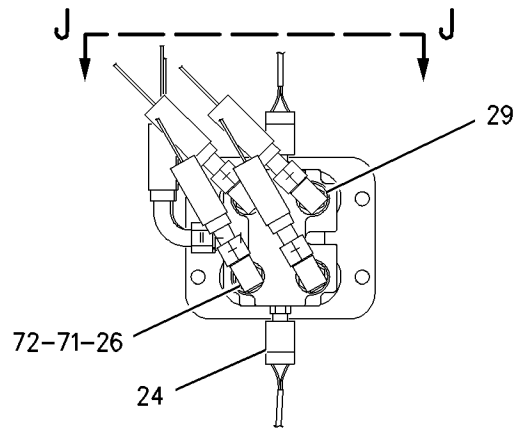
HYDRAULIC SYSTEM

187-7163 LINES GP-PILOT (contd.)

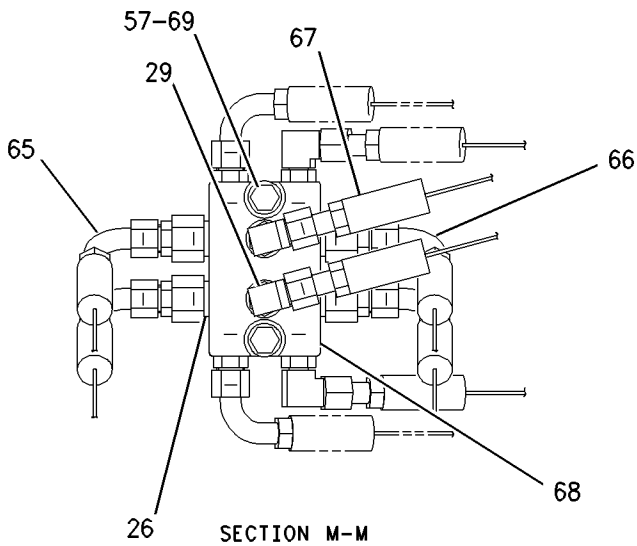
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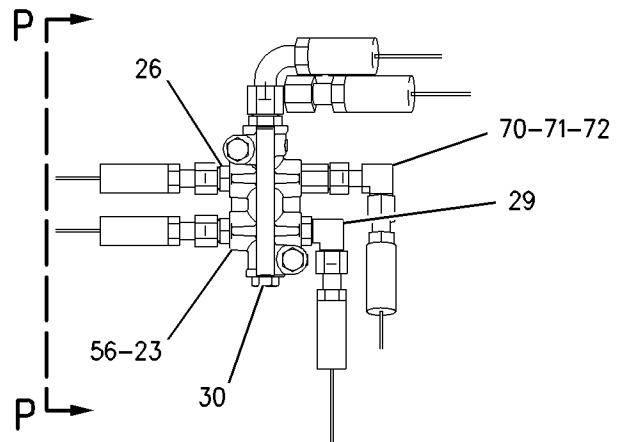
VIEW J-J



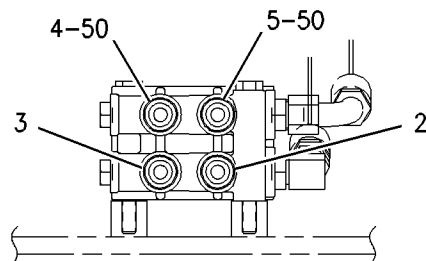
VIEW B-B



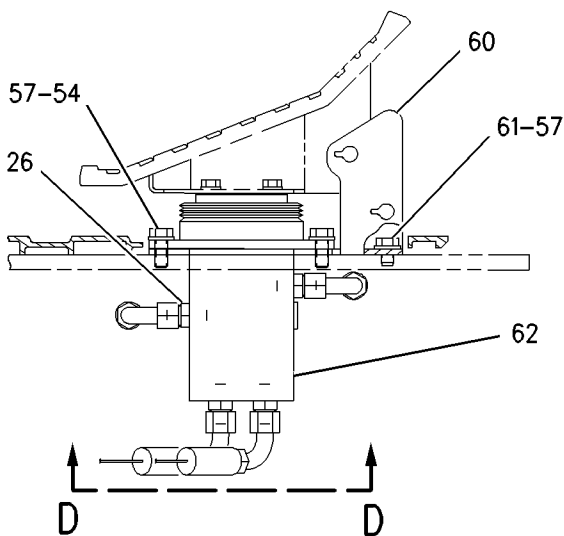
SECTION M-M



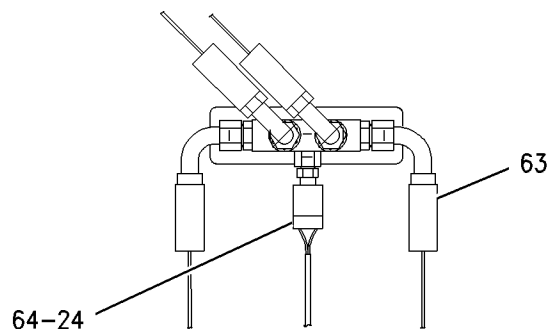
VIEW OF AREA E



VIEW P-P



SECTION K-K



VIEW D-D

GRAPHIC #3

g00793703

MEMORANDA

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT

S/N: CAM1-UP; CBY1-UP

PART OF 206-9389 CONTROL AR-AUXILIARY, 186-3943 HYDRAULIC AR
ALSO AN ATTACHMENT

SMCS-5057, 5059

i01512657

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	3	187-5676	1	HOSE AS	
	2	1	187-6730	1	HOSE AS	
	3	1	184-9244	1	HOSE AS	
	4	1	184-9143	1	HOSE AS	
I	5	1	5I-4393	1	HOSE AS	
I	6	2	176-4768	1	HOSE AS	
	7	2,3	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)	
	8	1,2,3	8T-4121	8	WASHER-HARD (11X21X2.5MM THK)	
	9	4	184-9156	1	HOSE AS	
	10	1	184-9148	1	HOSE AS	
I	11	4	184-9593	1	HOSE AS	
I	12	4	184-9595	1	HOSE AS	
I	13	4	4I-1739	1	HOSE AS	
I	14	3,4	087-4531	2	HOSE AS	
I	15	3	087-5760	1	HOSE AS	
I	16	3	5I-8708	1	HOSE AS	
I	17	3	184-9158	1	HOSE AS	
	18	2	184-9154	1	HOSE AS	
I	19	3	104-8838	1	HOSE AS	
I	20	3	176-4472	1	HOSE AS	
I	21	3	4I-0836	1	HOSE AS	
I	22	2	087-5774	1	HOSE AS	
I	23	3	087-4534	1	HOSE AS	
I	24	3	143-4254	1	HOSE AS	
I	25	3	087-5772	1	HOSE AS	
I	26	2	164-8977	1	HOSE AS	
I	27	4	176-4769	1	HOSE AS	
I	28	2	5I-4396	1	HOSE AS	
	29	1	187-6735	1	HOSE AS	
	30	2	184-9144	1	HOSE AS	
I	31	2	087-4411	1	HOSE AS	
I	32	2	087-5771	1	HOSE AS	
I	33	2	164-8983	1	HOSE AS	
I	34	4	087-5762	1	HOSE AS	
	35	2	184-9155	1	HOSE AS	
	36	2	184-9151	1	HOSE AS	
I	37	2	087-5776	1	HOSE AS	
I	38	3	176-4569	1	HOSE AS	
I	39	3	4I-5906	1	HOSE AS	
I	40	2	104-8821	1	HOSE AS	
	41	1	187-7067	2	HOSE AS	
	42	3	176-4469	1	BLOCK	
Y	43	3	164-6981	1	ACCUMULATOR GP-HYDRAULIC	278
Y	44	3	158-8251	1	VALVE GP-PILOT	548
Y	45	3	123-2430	1	VALVE GP-SHUTTLE	579
Y	46	3	158-8274	1	VALVE GP-PRESSURE REDUCING	561
	47	2	157-3182	2	SENSOR AS-PRESSURE	
					(EACH INCLUDES)	
		2	126-1767		CONNECTOR-PIN	
		2	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)	
		2	3K-0360	1	SEAL-O-RING	
48		3	164-5558	1	STOP AS	
		3	3J-1907	1	SEAL-O-RING	
		3	5I-4371	1	STOP	
		3	6V-8397	1	SEAL-O-RING	

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	49	3	176-4463	1	PLATE	
	50	1, 3, 4	148-8336	10	CONNECTOR GP (EACH INCLUDES)	
		1, 3, 4	3J-1907	1	SEAL-O-RING	
		1, 3, 4	6V-8397	1	SEAL-O-RING	
		1, 3, 4	6V-8636	1	CONNECTOR	
	51	1, 2, 3	148-8340	5	CONNECTOR GP (EACH INCLUDES)	
		1, 2, 3	3K-0360	1	SEAL-O-RING	
		1, 2, 3	6V-8398	1	SEAL-O-RING	
		1, 2, 3	6V-8639	1	CONNECTOR	
M	52	2	8T-4133	1	NUT (M10X1.5 THD)	
	53	1, 2	148-8327	2	CONNECTOR GP (EACH INCLUDES)	
		1, 2	3D-2824	1	SEAL-O-RING	
		1, 2	6V-8637	1	CONNECTOR-SEAL	
		1, 2	6V-9746	1	SEAL-O-RING	
	54	1, 3	148-8338	3	CONNECTOR GP (EACH INCLUDES)	
		1, 3	3J-1907	1	SEAL-O-RING	
		1, 3	6V-8397	1	SEAL-O-RING	
		1, 3	8T-0075	1	CONNECTOR	
	55	1, 2, 3	148-8364	4	ELBOW GP (EACH INCLUDES)	
		1, 2, 3	3K-0360	1	SEAL-O-RING	
		1, 2, 3	6V-8398	1	SEAL-O-RING	
		1, 2, 3	6V-8625	1	ELBOW	
	56	2, 3, 4	148-8353	8	ELBOW GP (EACH INCLUDES)	
		2, 3, 4	3J-1907	1	SEAL-O-RING	
		2, 3, 4	6V-8397	1	SEAL-O-RING	
		2, 3, 4	6V-9001	1	ELBOW	
	57	2, 3, 4	148-8378	8	ELBOW GP (EACH INCLUDES)	
		2, 3, 4	3J-1907	1	SEAL-O-RING	
		2, 3, 4	6V-8397	1	SEAL-O-RING	
		2, 3, 4	6V-8724	1	ELBOW	
	58	1	148-8358	1	ELBOW AS	
		1	2M-9780	1	SEAL-O-RING	
		1	6V-8398	1	SEAL-O-RING	
		1	6V-8624	1	ELBOW	
	59	2	153-6237	1	ELBOW GP	
		2	3D-2824	1	SEAL-O-RING	
		2	6V-9004	1	ELBOW	
		2	6V-9746	1	SEAL-O-RING	
	60	1, 3, 4	148-8354	4	ELBOW GP (EACH INCLUDES)	
		1, 3, 4	3K-0360	1	SEAL-O-RING	
		1, 3, 4	6V-8398	1	SEAL-O-RING	
		1, 3, 4	6V-9002	1	ELBOW	
	61	2	148-8347	2	ELBOW GP (EACH INCLUDES)	
		2	3D-2824	1	SEAL-O-RING	
		2	6V-9007	1	ELBOW	
		2	6V-9746	1	SEAL-O-RING	
	62	3	148-8371	1	ELBOW GP	
		3	6V-8397	1	SEAL-O-RING	
		3	8C-8988	1	ELBOW (45 DEGREE)	

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	63	2,3,4	148-8433	3	TEE GP	
					(EACH INCLUDES)	
		2,3,4	6V-8397	2	SEAL-O-RING	
		2,3,4	6V-9836	1	TEE-SWIVEL	
	64	3,4	148-8435	4	TEE GP	
					(EACH INCLUDES)	
		3,4	3J-1907	1	SEAL-O-RING	
		3,4	6V-8397	2	SEAL-O-RING	
		3,4	6V-8781	1	TEE-FACE SEAL	
	65	2	148-8439	2	TEE GP	
					(EACH INCLUDES)	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	2	SEAL-O-RING	
		2	6V-8774	1	TEE	
	66	1	164-6872	2	TEE AS	
					(EACH INCLUDES)	
		1	2M-9780	1	SEAL-O-RING	
		1	6V-8398	2	SEAL-O-RING	
		1	115-8634	1	TEE-O-RING	
	67	3	148-8407	6	PLUG GP	
					(EACH INCLUDES)	
		3	3J-1907	1	SEAL-O-RING	
		3	9S-4191	1	PLUG-STRAIGHT THREAD	
	68	1	124-1212	1	FITTING	
	69	1	148-8415	1	REDUCER GP	
		1	6V-8397	1	SEAL-O-RING	
		1	6V-8936	1	REDUCER	
	70	2	6V-3965	5	FITTING AS (QUICK DISCONNECT)	
	71	2	6V-0852	5	CAP-DUST	
	72	2	3J-1907	5	SEAL-O-RING	
	73	2,3	6V-8397	4	SEAL-O-RING	
	74	1	3D-2824	1	SEAL-O-RING	
	75	1	6V-9746	1	SEAL-O-RING	
M	76	3	8T-4192	3	BOLT (M12X1.75X25MM)	
	77	1,2	6D-1641	2	CLIP	
	78	2	5P-7464	1	CLIP (SLOT)	
	79	2	5P-7465	1	CLIP (TAB)	
M	80	2	8T-4139	1	BOLT (M12X1.75X30MM)	
M	81	2	8T-4196	1	BOLT (M10X1.5X35MM)	
	82	2	165-3312	1	GROMMET	
	83	2	6V-7359	1	GROMMET	
	84	1	6V-0683	2	GROMMET	
	85	2	103-1384	1	GUARD	
	86	1,2	7K-1181	8	STRAP-CABLE	
	87	3	4I-9521	2	BAND-HOSE (L1-RED)	
	88	1	4I-9522	2	BAND-HOSE (L2-YELLOW)	
	89	1	4I-9523	4	BAND-HOSE (L3-BLUE)	
	90	1	4I-9524	2	BAND-HOSE (L4-BROWN)	
	91	4	4I-9525	2	BAND-HOSE (R1-ORANGE)	
	92	1,3	4I-9527	4	BAND-HOSE (R3-GREEN)	
	93	2,4	4I-9528	4	BAND-HOSE (R4-PURPLE)	
M	94	3	099-3649	2	BOLT (M8X1.25X40MM)	
M	95	1	8T-4136	1	BOLT (M10X1.5X25MM)	
M	96	3	8T-4137	4	BOLT (M10X1.5X20MM)	
M	97	3	8T-1159	2	BOLT-SOCKET HEAD (M10X1.5X25MM)	
M	98	3	8T-4172	2	BOLT (M10X1.50X80MM)	

I-SEE HOSE FABRICATION GUIDE

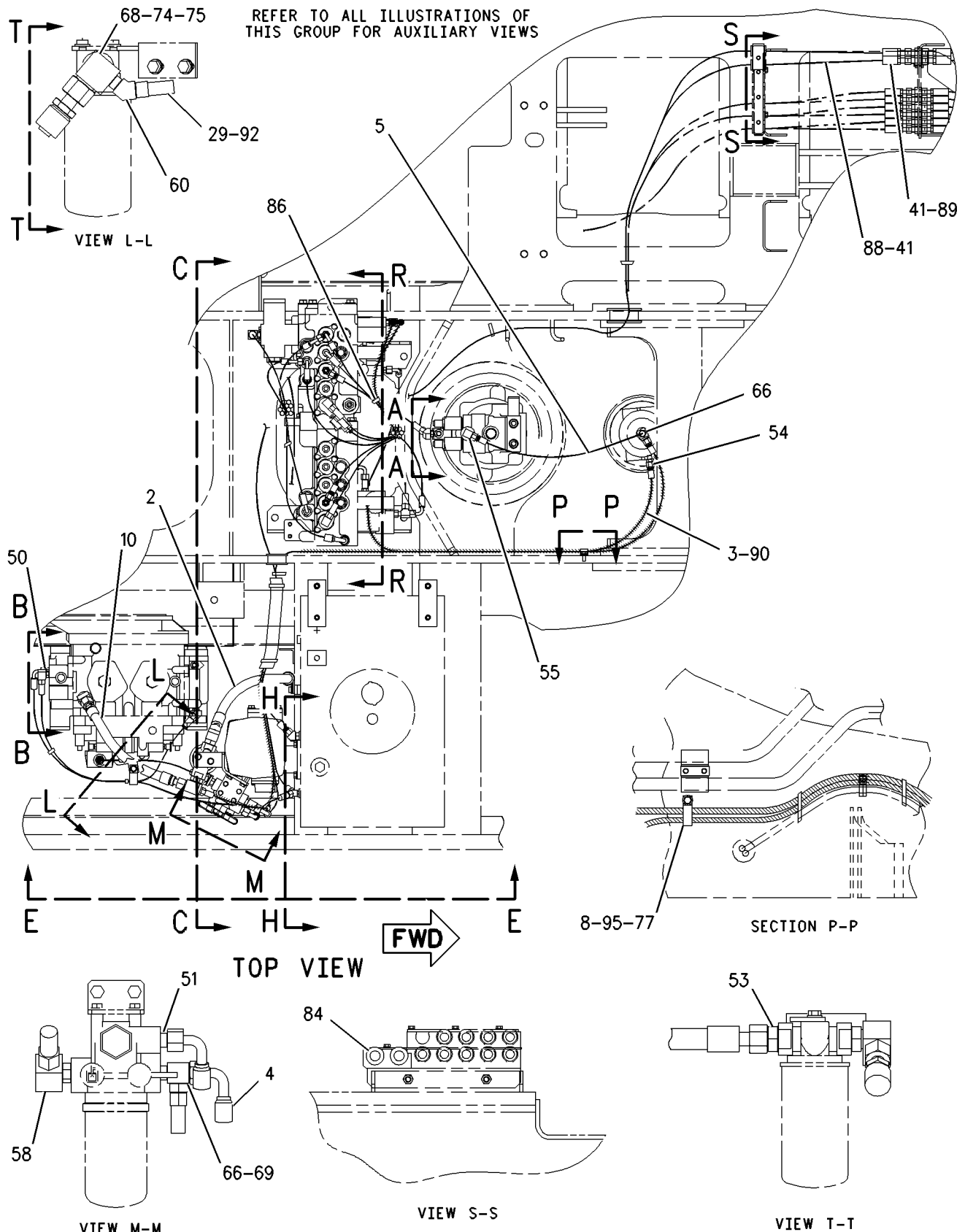
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657



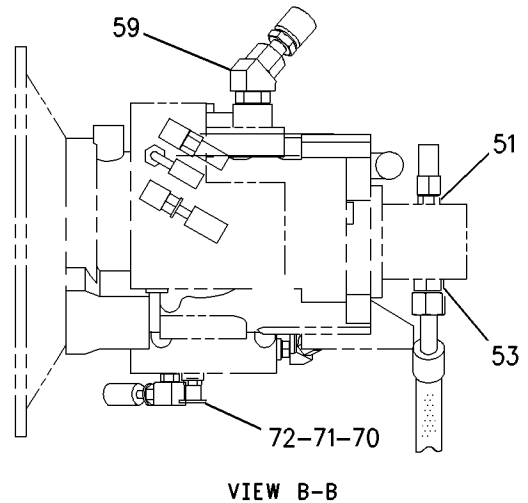
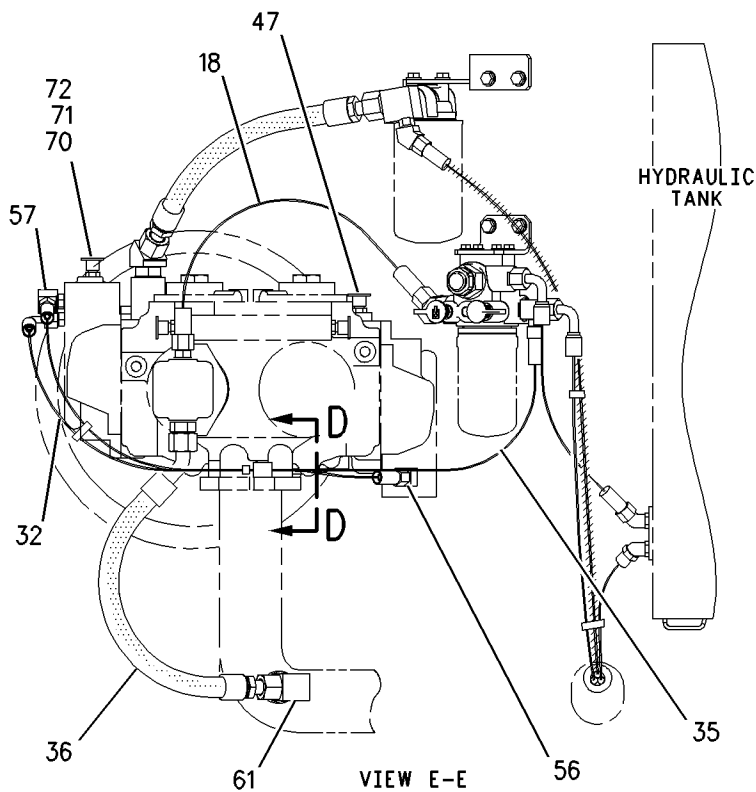
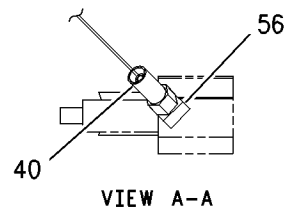
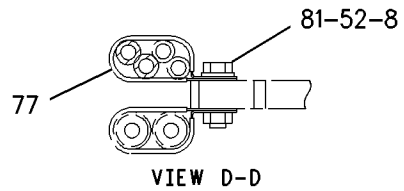
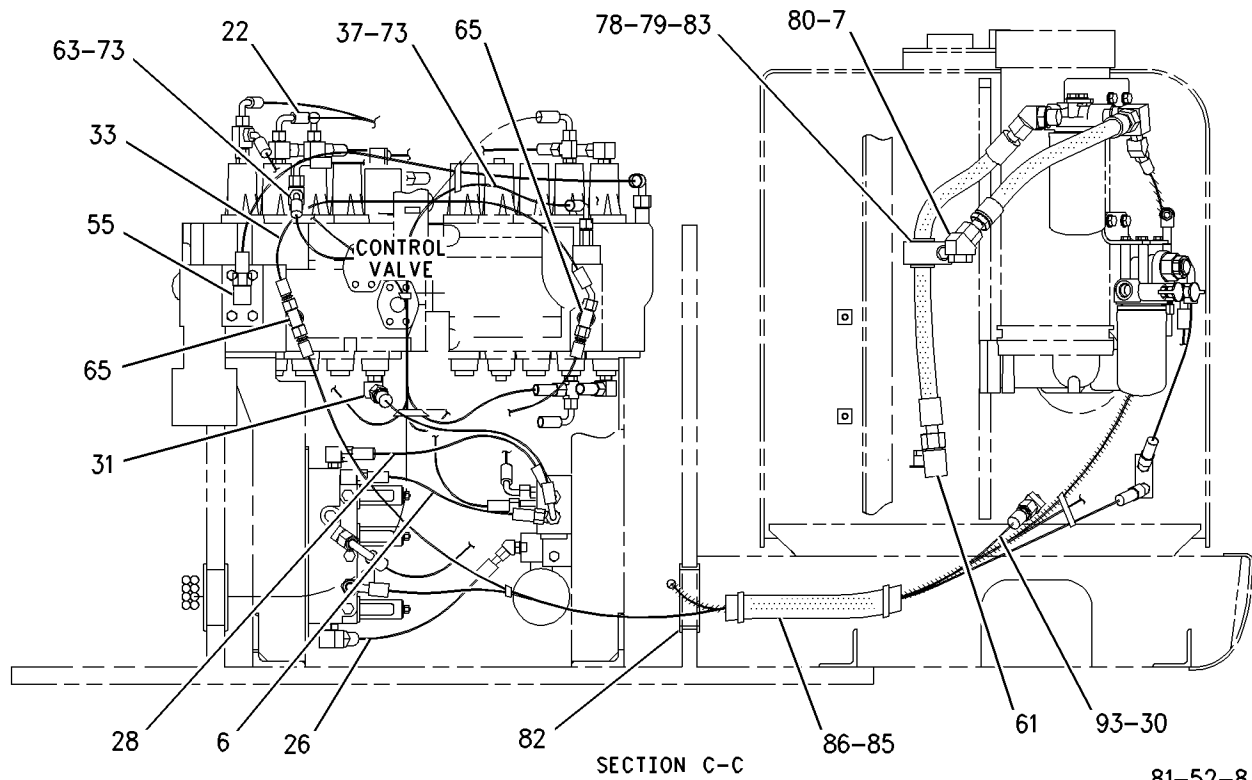
GRAPHIC #1

g00794109

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657



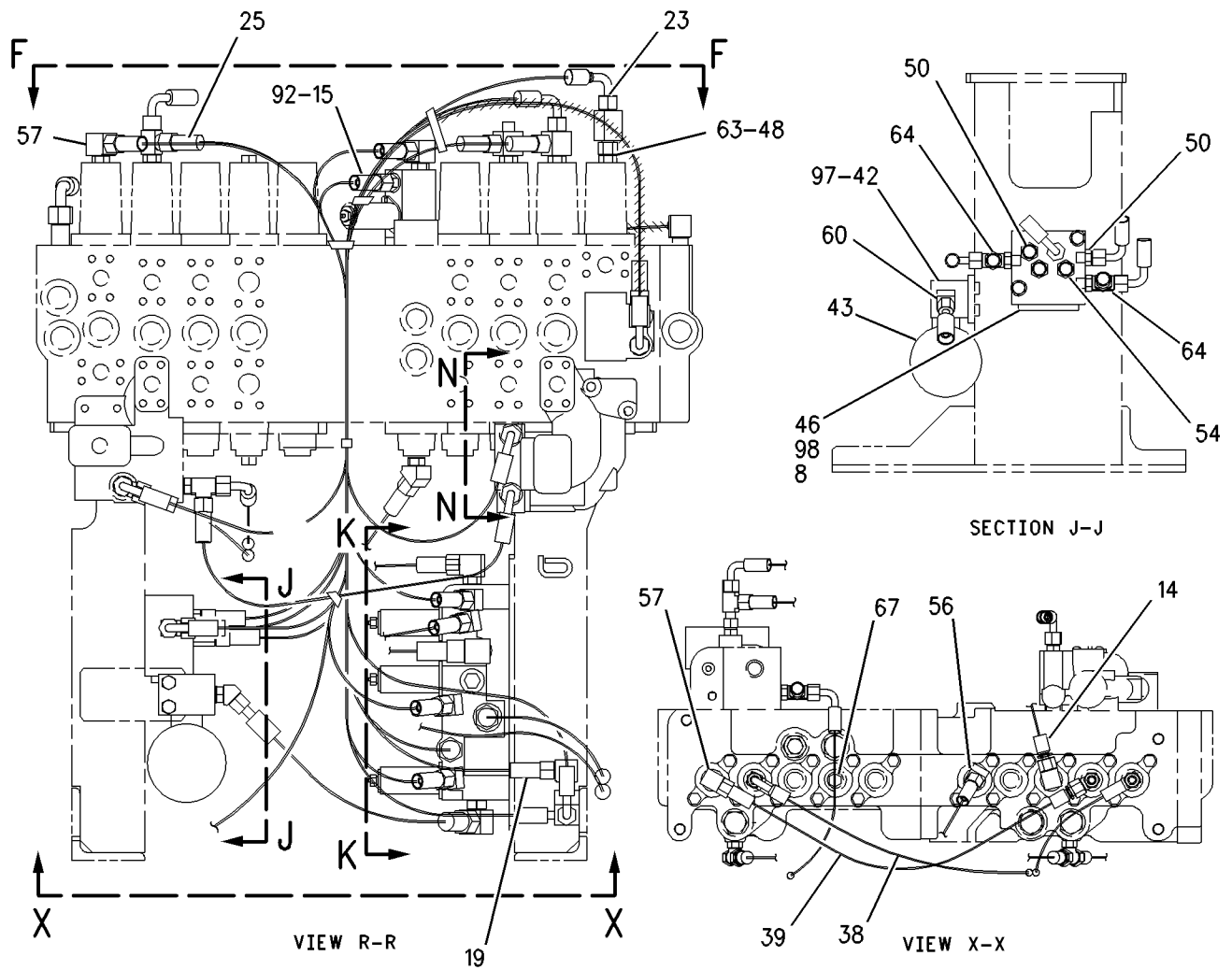
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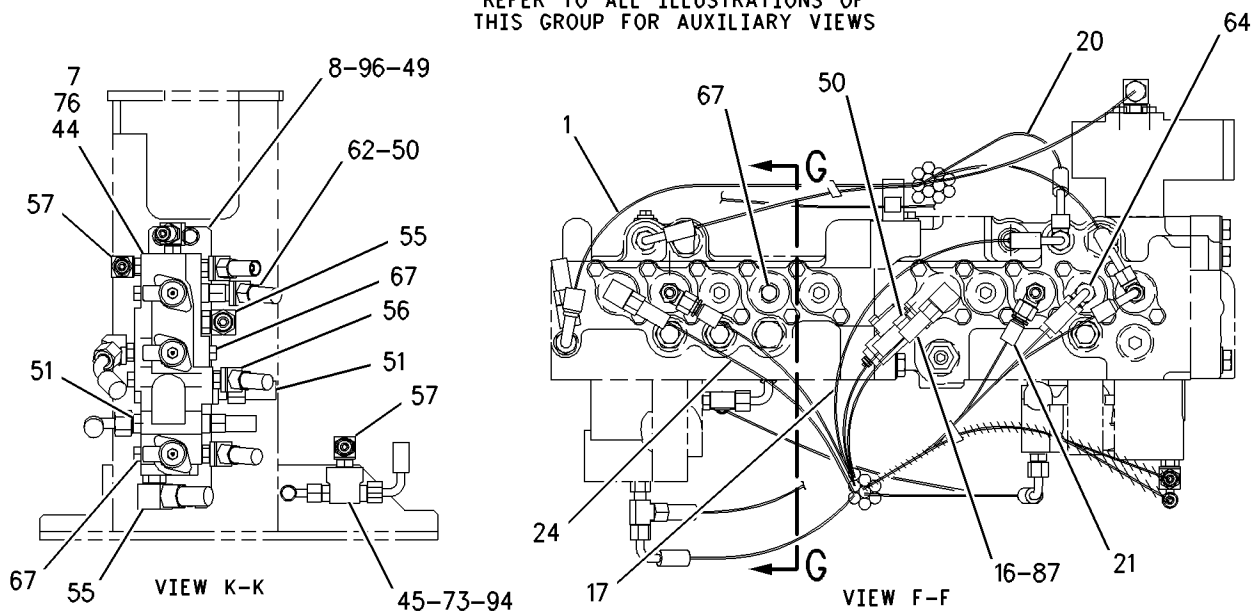
HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



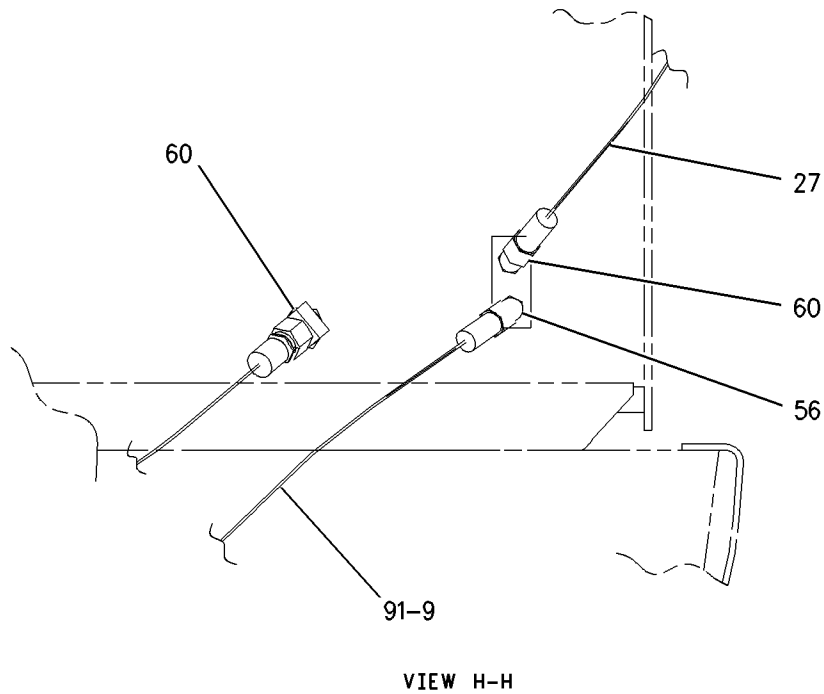
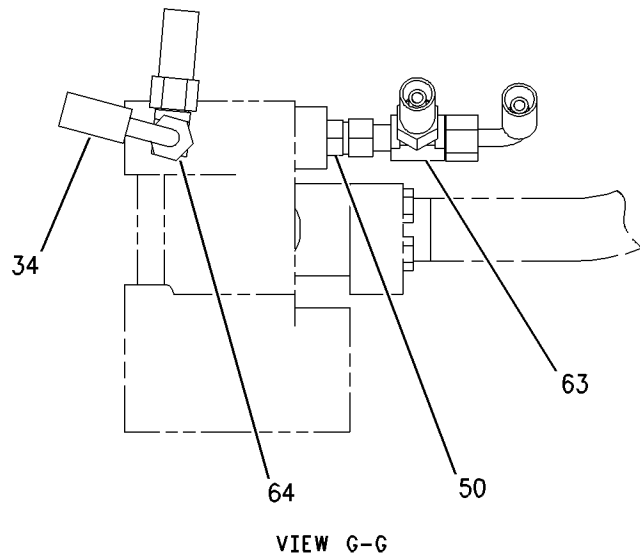
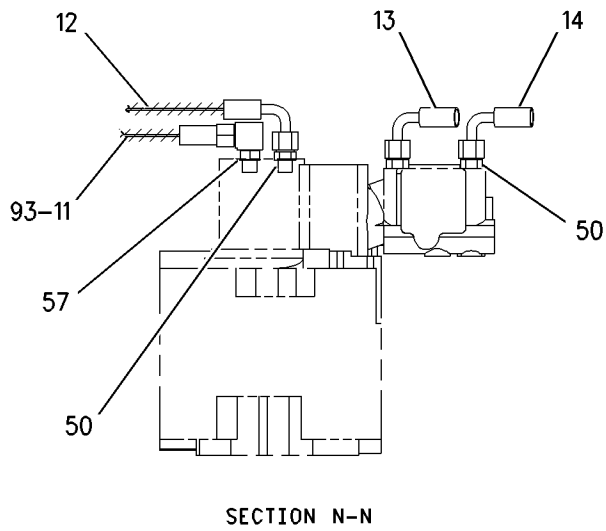
GRAPHIC #3

g00794111

HYDRAULIC SYSTEM

187-7164 LINES GP-PILOT (contd.)

i01512657



GRAPHIC #4

g00794114

MEMORANDA

HYDRAULIC SYSTEM

187-7166 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

GRAPPLE

PART OF 206-9388, 206-9389 CONTROL AR-AUXILIARY, 186-3943 HYDRAULIC AR
ALSO AN ATTACHMENT

SMCS-5057, 5059

i01511589

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	2	4I-0806	1	HOSE	AS					
I	2	1	4I-0836	1	HOSE	AS					
I	3	1	4I-1704	1	HOSE	AS					
I	4	1	4I-1739	1	HOSE	AS					
I	5	2	7Y-4190	1	HOSE	AS					
I	6	1	087-6585	1	HOSE	AS					
I	7	1	104-9048	1	HOSE	AS					
I	8	2	108-7387	1	HOSE	AS					
I	9	2	108-7572	1	HOSE	AS					
	10	2	134-6918	1	HOSE	AS					
I	11	1	176-4760	1	HOSE	AS					
I	12	1	184-9208	1	HOSE	AS					
I	13	1	184-9209	1	HOSE	AS					
	14	2	187-7156	2	HOSE	AS					
	15	2	192-6774	1	HOSE	AS					
	16	2	192-6775	2	HOSE	AS					
Y	17	1	123-2430	2	VALVE	GP-SHUTTLE					579
Y	18	2	171-0188	1	VALVE	GP-PILOT					552
Y	19	2	185-0497	1	VALVE	GP-SOLENOID					586
	20	1	194-0095	1	SUPPORT	AS					
		1	7T-1099	2	LINK						
	21	2	196-0615	1	SUPPORT	AS					
		2	7T-1099	1	LINK						
M		2	8T-3597	1	NUT-WELD	(M12X1.75 THD)					
	22	2	164-5629	2	FITTING	AS					
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	108-7516	1	FITTING						
	23	2	167-3466	2	SWITCH	GP-PRESSURE (STRAIGHT TRAVEL)					
		2	102-8802	1	KIT-RECEPTACLE	(2 PIN)					
	24	1	187-7023	1	PLATE						
	25	2	124-1008	1	GUARD						
	26	2	6V-0852	6	CAP-DUST						
	27	2	6D-1641	1	CLIP						
	28	2	148-8407	10	PLUG	GP					
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	9S-4191	1	PLUG-STRAIGHT THREAD						
	29	2	148-8411	2	PLUG	AS					
					(EACH INCLUDES)						
		2	3K-0360	1	SEAL-O-RING						
		2	9S-4185	1	PLUG-O-RING						
	30	2	6V-3965	6	FITTING	AS (QUICK DISCONNECT)					
	31	2	148-8318	1	CONNECTOR	GP					
		2	3K-0360	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8634	1	CONNECTOR						
	32	2	148-8336	6	CONNECTOR	GP					
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8636	1	CONNECTOR						
	33	2	148-8338	1	CONNECTOR	GP					
		2	3J-1907	1	SEAL-O-RING						

HYDRAULIC SYSTEM

187-7166 LINES GP-PILOT (contd.)

i01511589

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
		2	6V-8397	1	SEAL-O-RING						
		2	8T-0075	1	CONNECTOR						
	34	2	148-8340	2	CONNECTOR GP						
					(EACH INCLUDES)						
		2	3K-0360	1	SEAL-O-RING						
		2	6V-8398	1	SEAL-O-RING						
		2	6V-8639	1	CONNECTOR						
	35	2	148-8342	1	CONNECTOR GP						
		2	3K-0360	1	SEAL-O-RING						
		2	6V-8632	1	CONNECTOR						
		2	7J-9108	1	SEAL-O-RING						
	36	1	150-4043	1	CONNECTOR GP						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-9873	1	CONNECTOR-SEAL						
	37	1	148-8353	2	ELBOW GP						
					(EACH INCLUDES)						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	1	SEAL-O-RING						
		1	6V-9001	1	ELBOW						
	38	2	148-8367	1	ELBOW GP						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-9850	1	ELBOW-SWIVEL						
	39	1	148-8370	1	ELBOW GP						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-9851	1	ELBOW						
	40	2	148-8371	4	ELBOW GP						
					(EACH INCLUDES)						
		2	6V-8397	1	SEAL-O-RING						
		2	8C-8988	1	ELBOW (45 DEGREE)						
	41	2	148-8374	1	ELBOW GP						
		2	3K-0360	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8723	1	ELBOW						
	42	1,2	148-8378	3	ELBOW GP						
					(EACH INCLUDES)						
		1,2	3J-1907	1	SEAL-O-RING						
		1,2	6V-8397	1	SEAL-O-RING						
		1,2	6V-8724	1	ELBOW						
	43	2	148-8393	3	ELBOW GP						
					(EACH INCLUDES)						
		2	6V-9852	1	ELBOW-SWIVEL						
		2	7J-9108	1	SEAL-O-RING						
	44	2	150-4048	1	ELBOW GP						
		2	3K-0360	1	SEAL-O-RING						
		2	6V-8722	1	ELBOW						
		2	7J-9108	1	SEAL-O-RING						
	45	1	148-8428	1	TEE GP						
		1	3K-0360	1	SEAL-O-RING						
		1	6V-8398	2	SEAL-O-RING						
		1	6V-8782	1	TEE-FACE SEAL						
	46	2	148-8435	4	TEE GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	2	SEAL-O-RING						
		2	6V-8781	1	TEE-FACE SEAL						
	47	2	150-4027	2	FITTING GP						
					(EACH INCLUDES)						
		2	3E-2310	1	TEE						

HYDRAULIC SYSTEM

187-7166 LINES GP-PILOT (contd.)

i01511589

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
	48	2	3J-1907	6	SEAL-O-RING						
	49	1	6V-8397	4	SEAL-O-RING						
	50	2	7K-1181	12	STRAP-CABLE						
	51	2	4I-9521	2	BAND-HOSE (L1-RED)						
	52	2	4I-9522	2	BAND-HOSE (L2-YELLOW)						
	53	2	4I-9524	2	BAND-HOSE (L4-BROWN)						
	54	2	4I-9525	2	BAND-HOSE (R1-ORANGE)						
M	55	2	8T-4177	4	BOLT (M8X1.25X90MM)						
M	56	1	8T-3647	2	BOLT (M8X1.25X80MM)						
M	57	1	8T-4136	2	BOLT (M10X1.5X25MM)						
M	58	1	8T-4137	2	BOLT (M10X1.5X20MM)						
M	59	1	8T-4139	2	BOLT (M12X1.75X30MM)						
M	60	1	8T-4192	2	BOLT (M12X1.75X25MM)						
M	61	1	5C-7261	2	NUT (M8X1.25 THD)						
	62	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
	63	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)						
	64	1,2	8T-4224	6	WASHER-HARD (8.8X16X2MM THK)						

I-SEE HOSE FABRICATION GUIDE

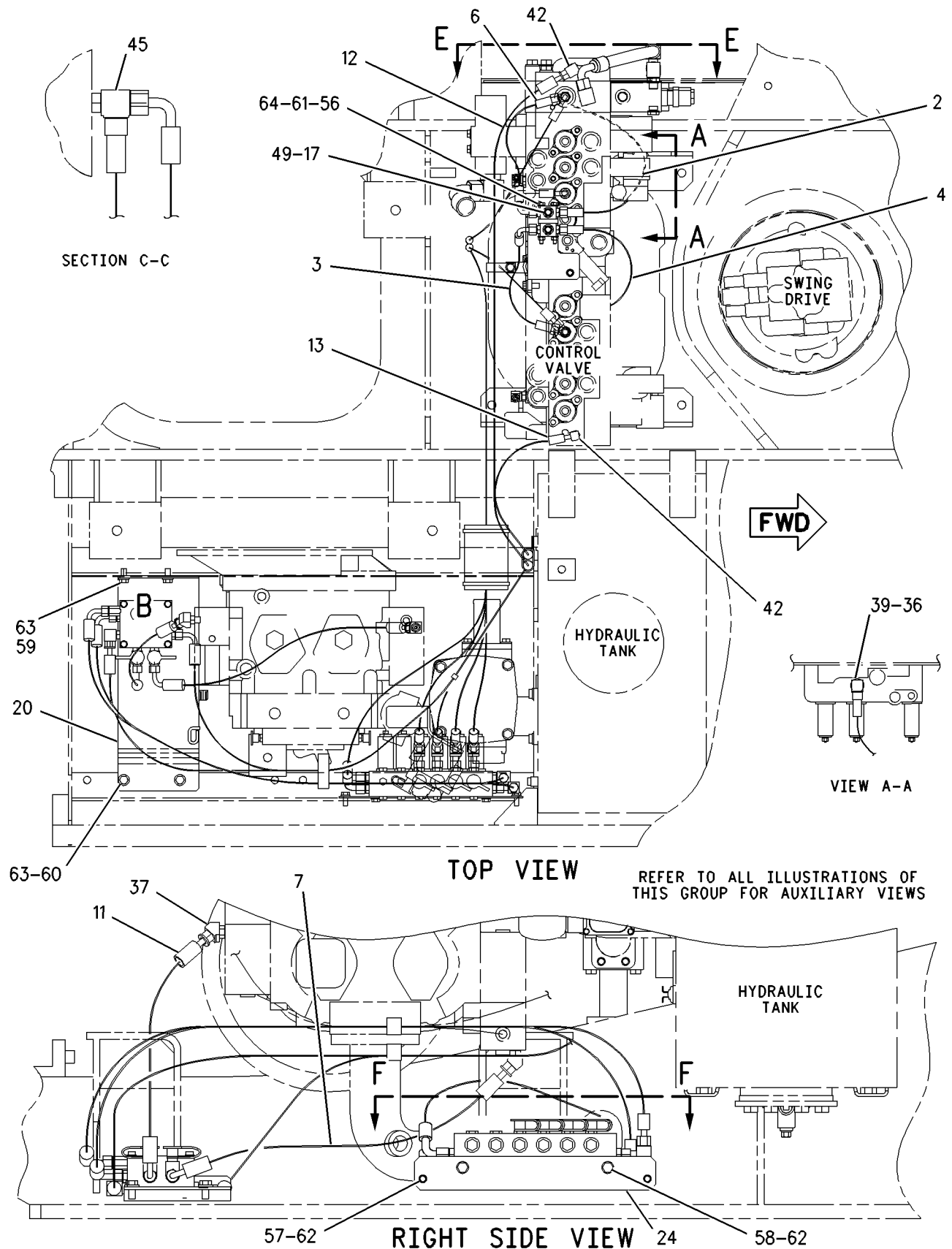
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7166 LINES GP-PILOT (contd.)

101511589



GRAPHIC #1

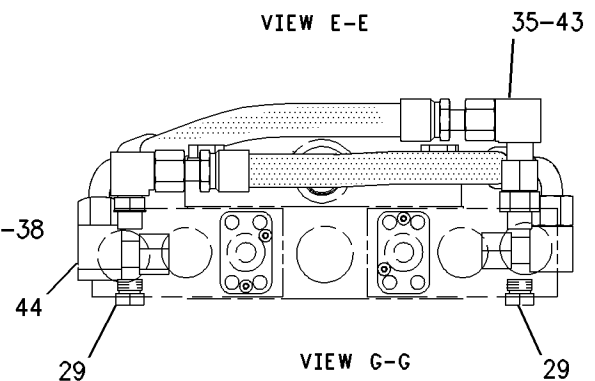
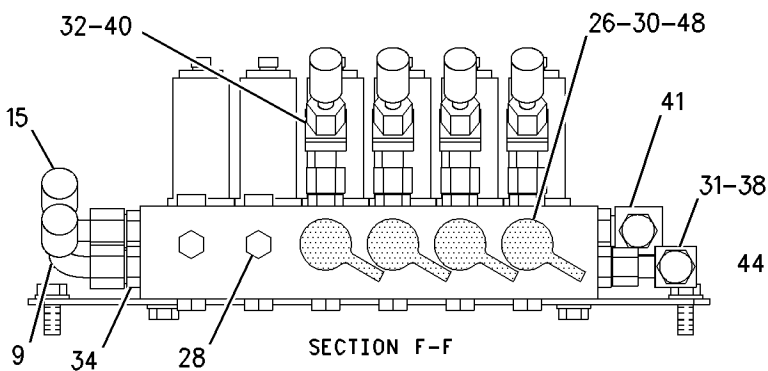
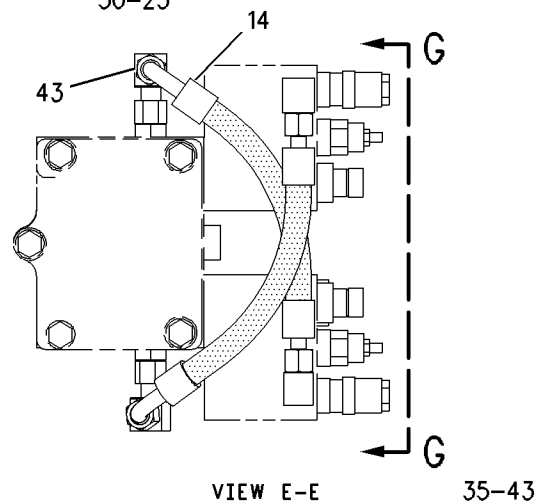
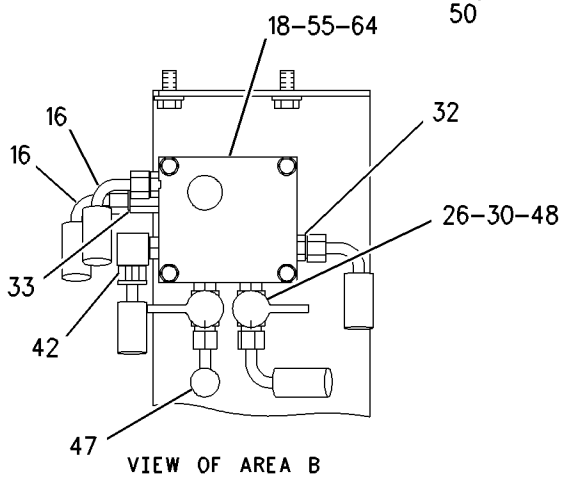
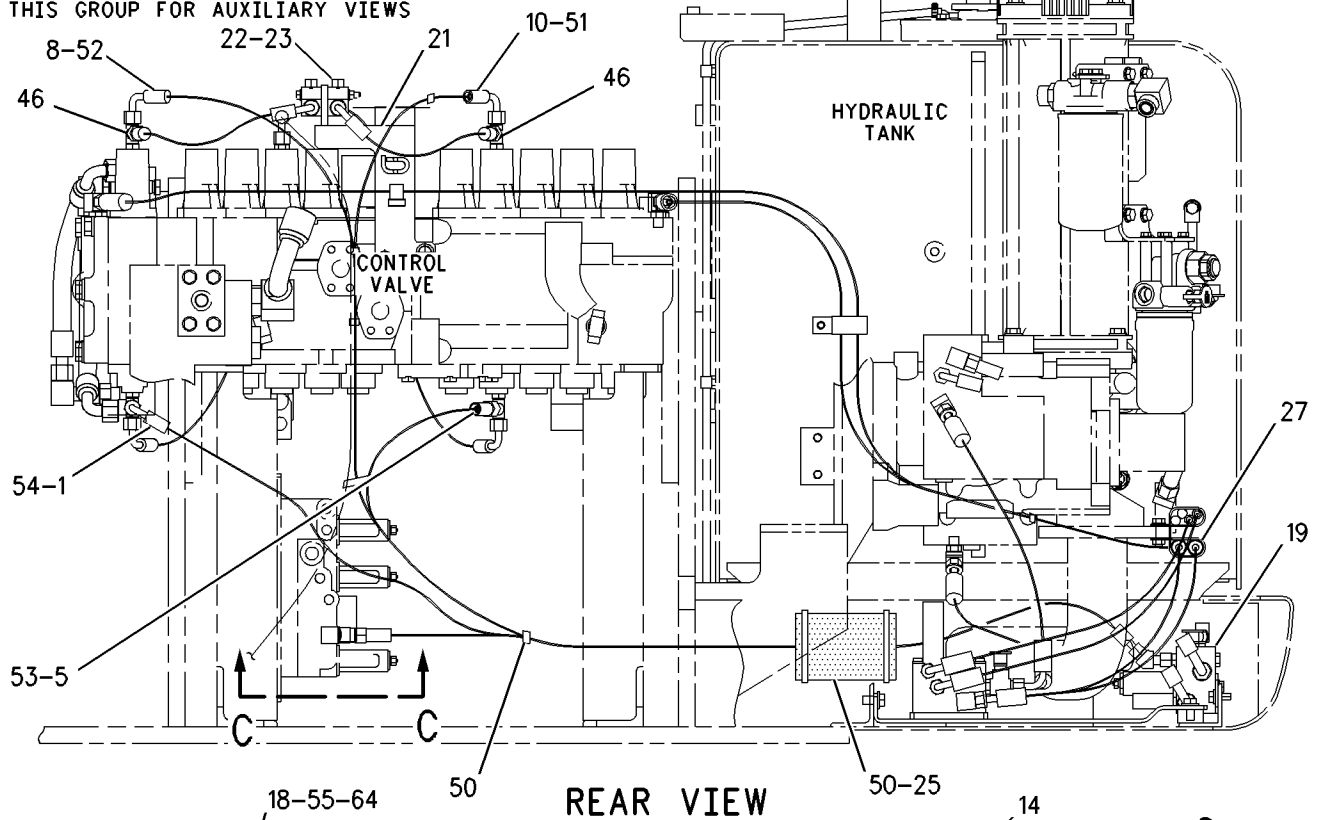
g00793310

HYDRAULIC SYSTEM

187-7166 LINES GP-PILOT (contd.)

i01511589

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



GRAPHIC #2

g00793311

MEMORANDA

HYDRAULIC SYSTEM

202-3587 LINES GP-PILOT

S/N: CBY1-UP

CAB RISER

PART OF 192-2340 RISER AR-CAB

SMCS-5057, 5059

i01518066

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-8364	1	ELBOW GP						
		1	3K-0360	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8625	1	ELBOW						
	2	1	148-8340	1	CONNECTOR GP						
		1	3K-0360	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8639	1	CONNECTOR						
I	3	2	113-6688	1	HOSE AS						
	4	2	187-7070	1	HOSE AS						
I	5	2	7I-8252	9	HOSE AS						
	6	2	148-8378	2	ELBOW GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8724	1	ELBOW						
	7	2	148-8336	10	CONNECTOR GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8636	1	CONNECTOR						
I	8	2	7Y-4390	1	HOSE AS						
I	9	2	4I-6003	1	HOSE AS						
	10	2	194-0169	1	SUPPORT AS						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	11	2	194-0171	1	SUPPORT AS						
M		2	8T-3490	3	NUT-WELD (M10X1.5 THD)						
M	12	2	8T-4136	10	BOLT (M10X1.5X25MM)						
	13	2	8T-4121	10	WASHER-HARD (11X21X2.5MM THK)						
	14	2	6V-8994	12	UNION-BULKHEAD						
	15	2	6V-9168	12	NUT (11/16-16 THD)						
	16	2	6V-8995	2	UNION-BULKHEAD						
	17	2	6V-9169	2	NUT-BULKHEAD (13/16-16 THD)						
	18	2	134-5395	2	BRACKET AS						
					(EACH INCLUDES)						
M		2	6V-9632	3	NUT-WELD (M6X1 THD)						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	19	2	135-0155	1	BRACKET AS						
M		2	6V-9632	2	NUT-WELD (M6X1 THD)						
M		2	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	20	2	134-5397	2	STRIP						
	21	2	135-0158	1	STRIP						
M	22	2	8T-4138	8	BOLT (M6X1X20MM)						
	23	2	9X-8256	8	WASHER (6.6X12X2MM THK)						
	24	2	6V-0683	2	GROMMET						
	25	2	7V-6571	12	GROMMET						
	26	2	4I-9521	2	BAND-HOSE (L1-RED)						
	27	2	4I-9522	4	BAND-HOSE (L2-YELLOW)						
	28	2	4I-9523	6	BAND-HOSE (L3-BLUE)						
	29	2	4I-9524	2	BAND-HOSE (L4-BROWN)						
	30	2	4I-9525	2	BAND-HOSE (R1-ORANGE)						
	31	2	4I-9526	2	BAND-HOSE (R2-WHITE)						
	32	2	4I-9527	2	BAND-HOSE (R3-GREEN)						
	33	2	4I-9528	2	BAND-HOSE (R4-PURPLE)						
	34	1	115-8645	2	GUARD						

HYDRAULIC SYSTEM

202-3587 LINES GP-PILOT (contd.)

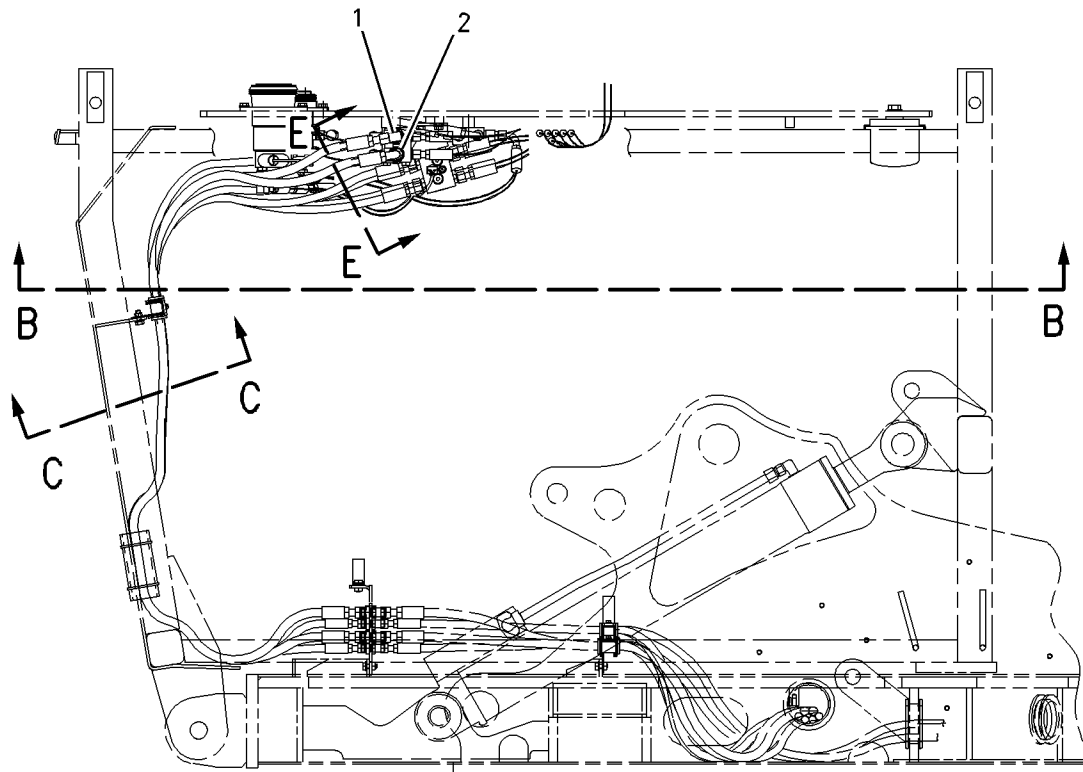
i01518066

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	35	1	7K-1181	4	STRAP-CABLE	
I	36	2	4I-0812	1	HOSE AS	
I-SEE HOSE FABRICATION GUIDE						
M-METRIC PART						

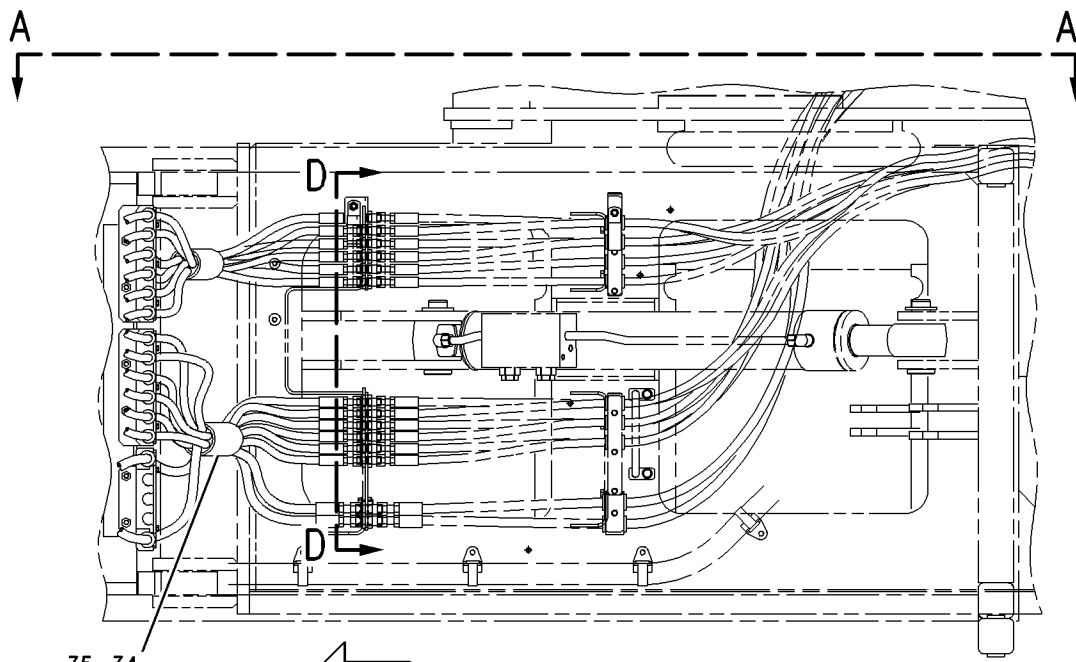
HYDRAULIC SYSTEM

202-3587 LINES GP-PILOT (contd.)

i01518066



VIEW A-A



FWD TOP VIEW

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

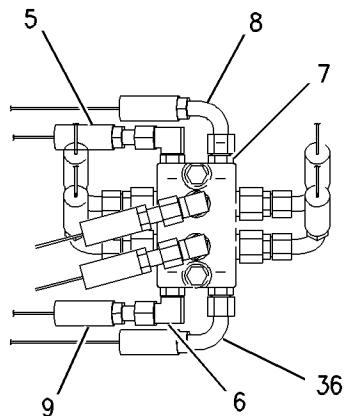
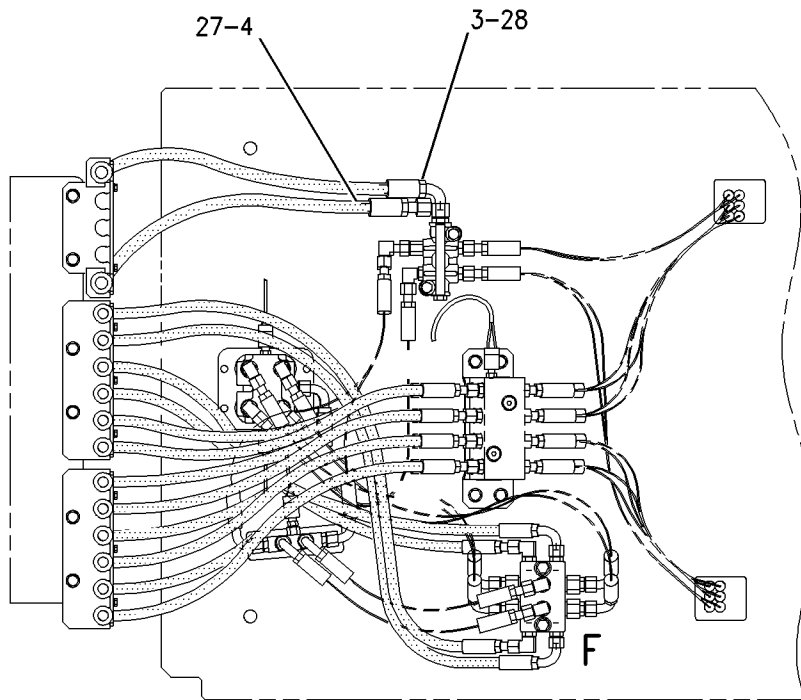
GRAPHIC #1

g00792941

HYDRAULIC SYSTEM

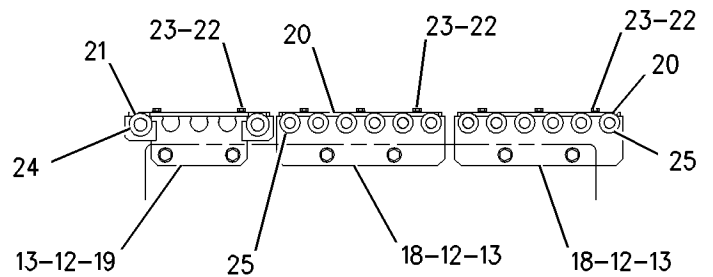
202-3587 LINES GP-PILOT (contd.)

i01518066

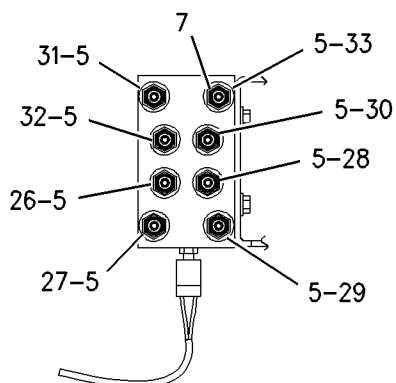


VIEW OF AREA F

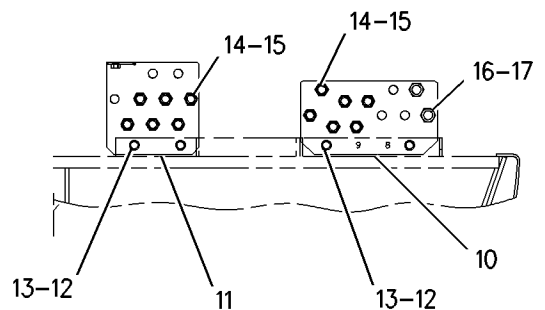
VIEW B-B



VIEW C-C



SECTION E-E



VIEW D-D

GRAPHIC #2

g00792981

HYDRAULIC SYSTEM

206-5051 LINES GP-PILOT

S/N: BPH1-UP; CAM1-UP

THUMB DOUBLE ACTION

PART OF 206-6046 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-5057, 5059

101540135

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	148-8367	1	ELBOW GP	
		1	6V-8397	1	SEAL-O-RING	
		1	6V-9850	1	ELBOW-SWIVEL	
	2	1,2	148-8336	2	CONNECTOR GP	
					(EACH INCLUDES)	
		1,2	3J-1907	1	SEAL-O-RING	
		1,2	6V-8397	1	SEAL-O-RING	
		1,2	6V-8636	1	CONNECTOR	
	3	1,2	148-8378	4	ELBOW GP	
					(EACH INCLUDES)	
		1,2	3J-1907	1	SEAL-O-RING	
		1,2	6V-8397	1	SEAL-O-RING	
		1,2	6V-8724	1	ELBOW	
	4	2	7K-1181	6	STRAP-CABLE	
I	5	2	4I-0772	1	HOSE AS	
I	6	2	102-7685	1	HOSE AS	
	7	1,2	7V-6571	4	GROMMET	
	8	2	167-3466	1	SWITCH GP-PRESSURE	
		2	102-8802	1	KIT-RECEPTACLE (2 PIN)	
	9	2	164-5629	1	FITTING AS	
		2	3J-1907	1	SEAL-O-RING	
		2	108-7516	1	FITTING	
	10	2	150-3036	1	ELBOW GP	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	1	SEAL-O-RING	
		2	8T-1905	1	ELBOW	
	11	2	164-5628	1	CONNECTOR AS	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	1	SEAL-O-RING	
		2	107-6631	1	CONNECTOR	
I	12	1	206-4668	1	HOSE AS	
	13	2	6V-9168	2	NUT (11/16-16 THD)	
I	14	2	087-5761	2	HOSE AS	
	15	2	4I-9523	8	BAND-HOSE (L3-BLUE)	
	16	2	4I-9521	8	BAND-HOSE (L1-RED)	
I	17	1	206-4667	1	HOSE AS	
	18	2	149-5452	2	UNION GP	
					(EACH INCLUDES)	
		2	6V-8397	2	SEAL-O-RING	
		2	6V-8994	1	UNION-BULKHEAD	

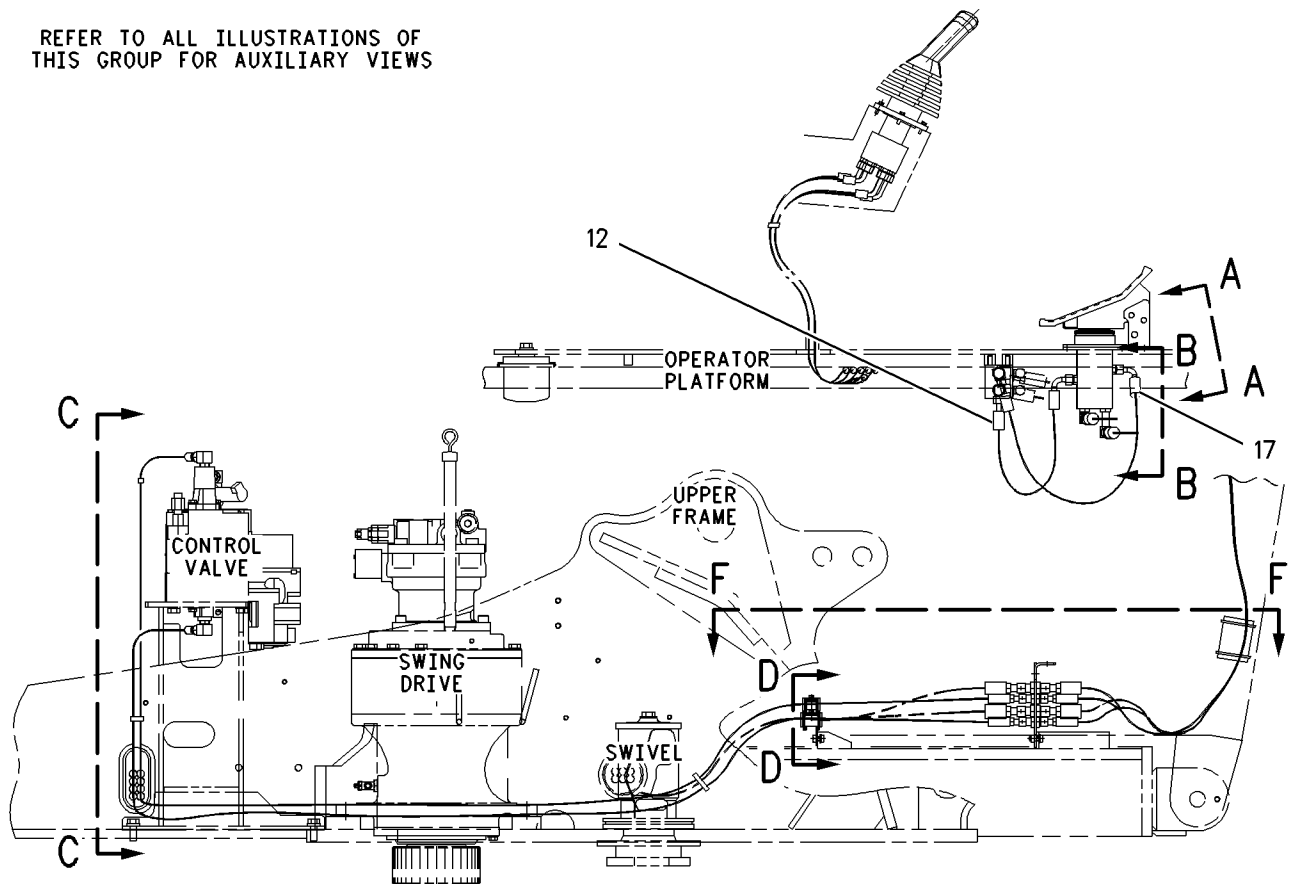
I-SEE HOSE FABRICATION GUIDE

HYDRAULIC SYSTEM

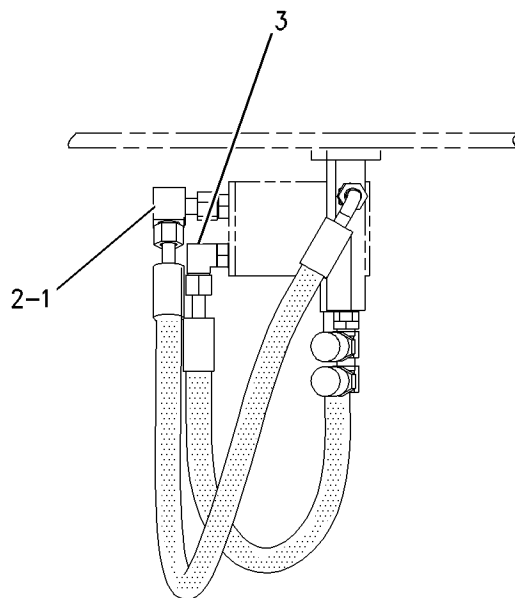
206-5051 LINES GP-PILOT (contd.)

i01540135

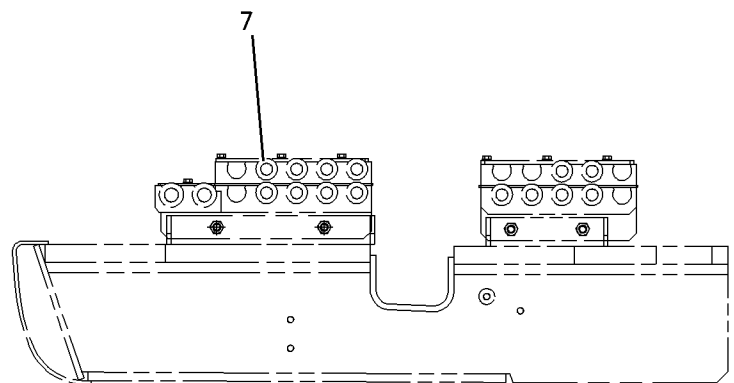
REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



RIGHT SIDE VIEW



VIEW B-B



SECTION D-D

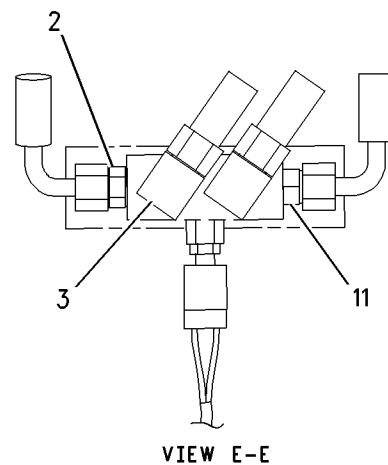
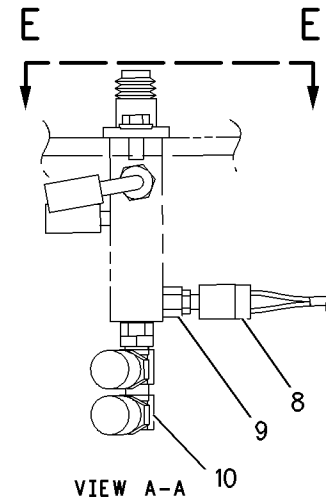
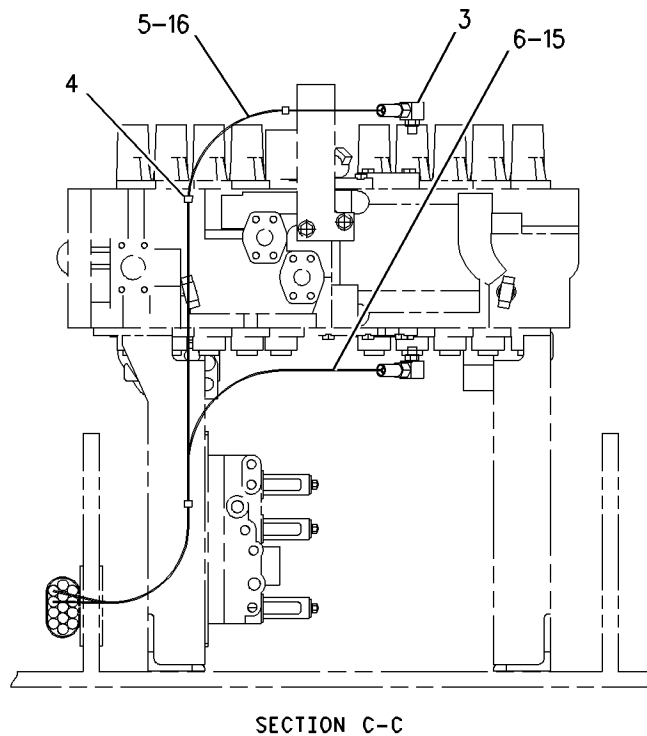
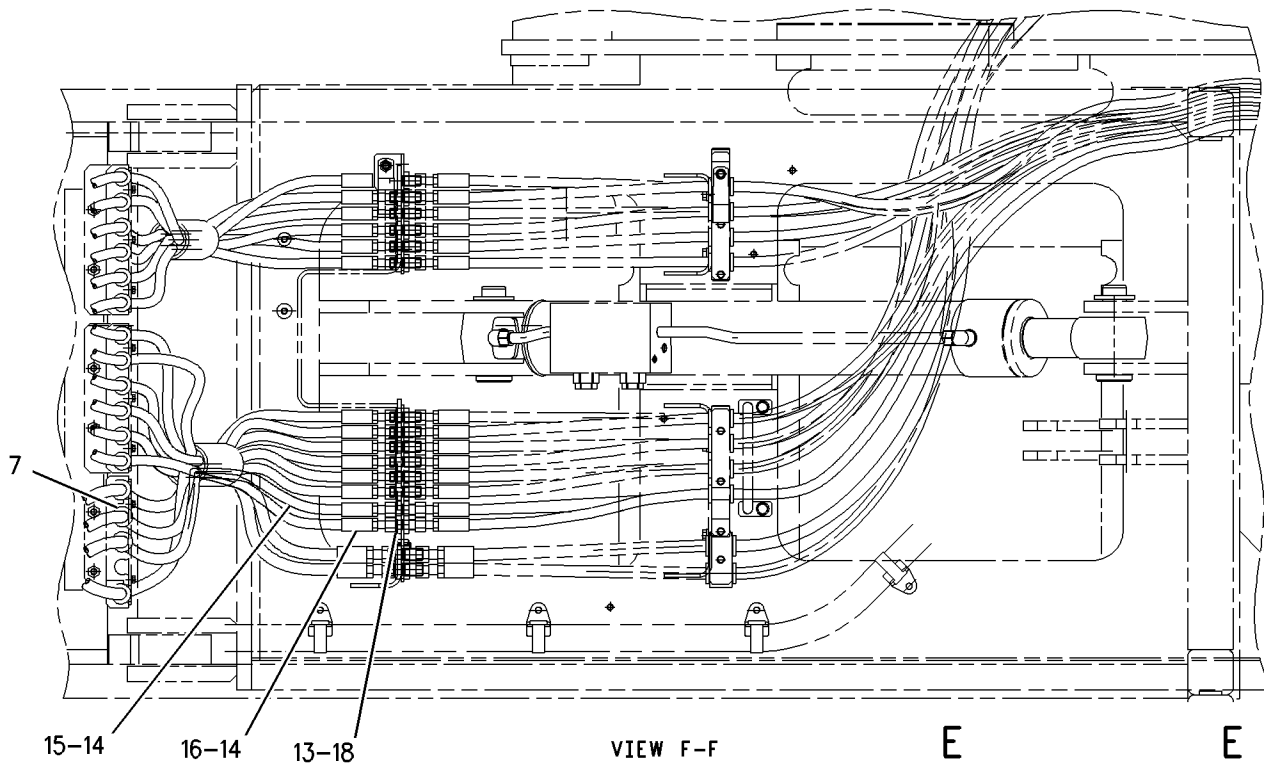
GRAPHIC #1

g00801580

HYDRAULIC SYSTEM

206-5051 LINES GP-PILOT (contd.)

i01540135



GRAPHIC #2

g00802024

MEMORANDA

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT

S/N: BPH1-UP

PART OF 206-9388 CONTROL AR-AUXILIARY
AN ATTACHMENT

SMCS-5057, 5059

101539760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	4	187-5676	1	HOSE AS	
	2	1	187-6730	1	HOSE AS	
	3	1	184-9244	1	HOSE AS	
	4	4	184-9143	1	HOSE AS	
I	5	1	5I-4393	1	HOSE AS	
I	6	1	176-4768	1	HOSE AS	
	7	1,2	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)	
	8	1,2,3	8T-4121	8	WASHER-HARD (11X21X2.5MM THK)	
	9	3	184-9156	1	HOSE AS	
	10	1	184-9148	1	HOSE AS	
I	11	3	184-9593	1	HOSE AS	
I	12	3	184-9595	1	HOSE AS	
I	13	3	4I-1739	1	HOSE AS	
I	14	2,3	087-4531	2	HOSE AS	
I	15	2	087-5760	1	HOSE AS	
I	16	4	5I-8708	1	HOSE AS	
I	17	4	184-9158	1	HOSE AS	
	18	3	184-9154	1	HOSE AS	
I	19	2	104-8838	1	HOSE AS	
I	20	4	176-4472	1	HOSE AS	
I	21	4	4I-0836	1	HOSE AS	
I	22	1	087-5774	1	HOSE AS	
I	23	2	087-4534	1	HOSE AS	
I	24	4	143-4254	1	HOSE AS	
I	25	2	087-5772	1	HOSE AS	
I	26	1	164-8977	1	HOSE AS	
I	27	3	176-4769	1	HOSE AS	
I	28	1	5I-4396	1	HOSE AS	
	29	4	187-6735	1	HOSE AS	
	30	1	184-9144	1	HOSE AS	
I	31	1	087-4411	1	HOSE AS	
I	32	3	087-5771	1	HOSE AS	
I	33	1	164-8983	1	HOSE AS	
I	34	4	087-5762	1	HOSE AS	
	35	3	184-9155	1	HOSE AS	
	36	3	184-9151	1	HOSE AS	
I	37	1	087-5776	1	HOSE AS	
I	38	2	176-4569	1	HOSE AS	
I	39	2	4I-5906	1	HOSE AS	
I	40	1	104-8821	1	HOSE AS	
	41	1	187-7067	2	HOSE AS	
	42	3	176-4469	1	BLOCK	
Y	43	3	164-6981	1	ACCUMULATOR GP-HYDRAULIC	278
Y	44	2	158-8251	1	VALVE GP-PILOT	548
Y	45	2	123-2430	1	VALVE GP-SHUTTLE	579
Y	46	3	158-8274	1	VALVE GP-PRESSURE REDUCING	561
	47	3	157-3182	2	SENSOR AS-PRESSURE (EACH INCLUDES)	
		3	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)	
		3	3K-0360	1	SEAL-O-RING	
		3	171-0596	1	RECEPTACLE AS	
48	2		164-5558	1	STOP AS	
	1		5I-4371	1	STOP	
	2		3J-1907	1	SEAL-O-RING	
	2		6V-8397	1	SEAL-O-RING	

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

i01539760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	49	2	176-4463	1	PLATE	
	50	1, 2, 3, 4	148-8336	10	CONNECTOR GP	
					(EACH INCLUDES)	
		1, 2, 3, 4	3J-1907	1	SEAL-O-RING	
		1, 2, 3, 4	6V-8397	1	SEAL-O-RING	
	51	2, 3, 4	148-8340	5	CONNECTOR GP	
					(EACH INCLUDES)	
		2, 3, 4	3K-0360	1	SEAL-O-RING	
		2, 3, 4	6V-8398	1	SEAL-O-RING	
M	52	2	8T-4133	1	NUT (M10X1.5 THD)	
	53	3, 4	148-8327	2	CONNECTOR GP	
					(EACH INCLUDES)	
		3, 4	6V-8637	1	CONNECTOR-SEAL	
		3, 4	3D-2824	1	SEAL-O-RING	
		3, 4	6V-9746	1	SEAL-O-RING	
	54	1, 3	148-8338	3	CONNECTOR GP	
					(EACH INCLUDES)	
		1, 3	8T-0075	1	CONNECTOR	
		1, 3	3J-1907	1	SEAL-O-RING	
		1, 3	6V-8397	1	SEAL-O-RING	
	55	1, 2	148-8364	4	ELBOW GP	
					(EACH INCLUDES)	
		1, 2	6V-8625	1	ELBOW	
		1, 2	3K-0360	1	SEAL-O-RING	
		1, 2	6V-8398	1	SEAL-O-RING	
	56	1, 2, 3	148-8353	8	ELBOW GP	
					(EACH INCLUDES)	
		1, 2, 3	6V-9001	1	ELBOW	
		1, 2, 3	3J-1907	1	SEAL-O-RING	
		1, 2, 3	6V-8397	1	SEAL-O-RING	
	57	2, 3	148-8378	8	ELBOW GP	
					(EACH INCLUDES)	
		2, 3	6V-8724	1	ELBOW	
		2, 3	3J-1907	1	SEAL-O-RING	
		2, 3	6V-8397	1	SEAL-O-RING	
	58	4	148-8358	1	ELBOW AS	
		4	6V-8624	1	ELBOW	
		4	2M-9780	1	SEAL-O-RING	
		4	6V-8398	1	SEAL-O-RING	
	59	3	153-6237	1	ELBOW GP	
		3	6V-9004	1	ELBOW	
		3	3D-2824	1	SEAL-O-RING	
		3	6V-9746	1	SEAL-O-RING	
	60	3, 4	148-8354	4	ELBOW GP	
					(EACH INCLUDES)	
		3, 4	6V-9002	1	ELBOW	
		3, 4	3K-0360	1	SEAL-O-RING	
		3, 4	6V-8398	1	SEAL-O-RING	
	61	1, 3	148-8347	2	ELBOW GP	
					(EACH INCLUDES)	
		1, 3	6V-9007	1	ELBOW	
		1, 3	3D-2824	1	SEAL-O-RING	
		1, 3	6V-9746	1	SEAL-O-RING	
	62	2	148-8371	1	ELBOW GP	
		2	8C-8988	1	ELBOW (45 DEGREE)	
		2	6V-8397	1	SEAL-O-RING	
	63	1, 2, 4	148-8433	3	TEE GP	
					(EACH INCLUDES)	
		1, 2, 4	6V-9836	1	TEE-SWIVEL	

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

i01539760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
		1, 2, 4	6V-8397	2	SEAL-O-RING						
	64	3, 4	148-8435	4	TEE GP						
					(EACH INCLUDES)						
		3, 4	6V-8781	1	TEE-FACE SEAL						
		3, 4	3J-1907	1	SEAL-O-RING						
		3, 4	6V-8397	2	SEAL-O-RING						
	65	1	148-8439	2	TEE GP						
					(EACH INCLUDES)						
		1	6V-8774	1	TEE						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	2	SEAL-O-RING						
	66	1, 4	164-6872	2	TEE AS						
					(EACH INCLUDES)						
		1, 4	115-8634	1	TEE-O-RING						
		1, 4	2M-9780	1	SEAL-O-RING						
		1, 4	6V-8398	2	SEAL-O-RING						
	67	2, 4	148-8407	6	PLUG GP						
					(EACH INCLUDES)						
		2, 4	9S-4191	1	PLUG-STRAIGHT THREAD						
		2, 4	3J-1907	1	SEAL-O-RING						
	68	4	124-1212	1	FITTING						
	69	4	148-8415	1	REDUCER GP						
		4	6V-8397	1	SEAL-O-RING						
	70	3	6V-3965	5	FITTING						
	71	3	6V-0852	5	CAP-DUST						
	72	3	3J-1907	5	SEAL-O-RING						
	73	2	6V-8397	4	SEAL-O-RING						
	74	4	3D-2824	1	SEAL-O-RING						
	75	4	6V-9746	1	SEAL-O-RING						
M	76	2	8T-4192	3	BOLT (M12X1.75X25MM)						
	77	1, 2	6D-1641	2	CLIP						
	78	1	5P-7464	1	CLIP (SLOT)						
	79	1	5P-7465	1	CLIP (TAB)						
M	80	1	8T-4139	1	BOLT (M12X1.75X30MM)						
M	81	2	8T-4196	1	BOLT (M10X1.5X35MM)						
	82	1	165-3312	1	GROMMET						
	83	1	6V-7359	1	GROMMET						
	84	2	6V-0683	2	GROMMET						
	85	1	103-1384	1	GUARD						
	86	1	7K-1181	8	STRAP-CABLE						
	87	4	4I-9521	2	BAND-HOSE (L1-RED)						
	88	1	4I-9522	2	BAND-HOSE (L2-YELLOW)						
	89	1	4I-9523	2	BAND-HOSE (L3-BLUE)						
	90	1	4I-9524	2	BAND-HOSE (L4-BROWN)						
	91	3	4I-9525	2	BAND-HOSE (R1-ORANGE)						
	92	2, 4	4I-9527	4	BAND-HOSE (R3-GREEN)						
	93	1, 3	4I-9528	4	BAND-HOSE (R4-PURPLE)						
M	94	2	099-3649	2	BOLT (M8X1.25X40MM)						
M	95	1	8T-4136	1	BOLT (M10X1.5X25MM)						
M	96	2	8T-4137	4	BOLT (M10X1.5X20MM)						
M	97	3	8T-1159	2	BOLT-SOCKET HEAD (M10X1.5X25MM)						
M	98	3	8T-4172	2	BOLT (M10X1.50X80MM)						

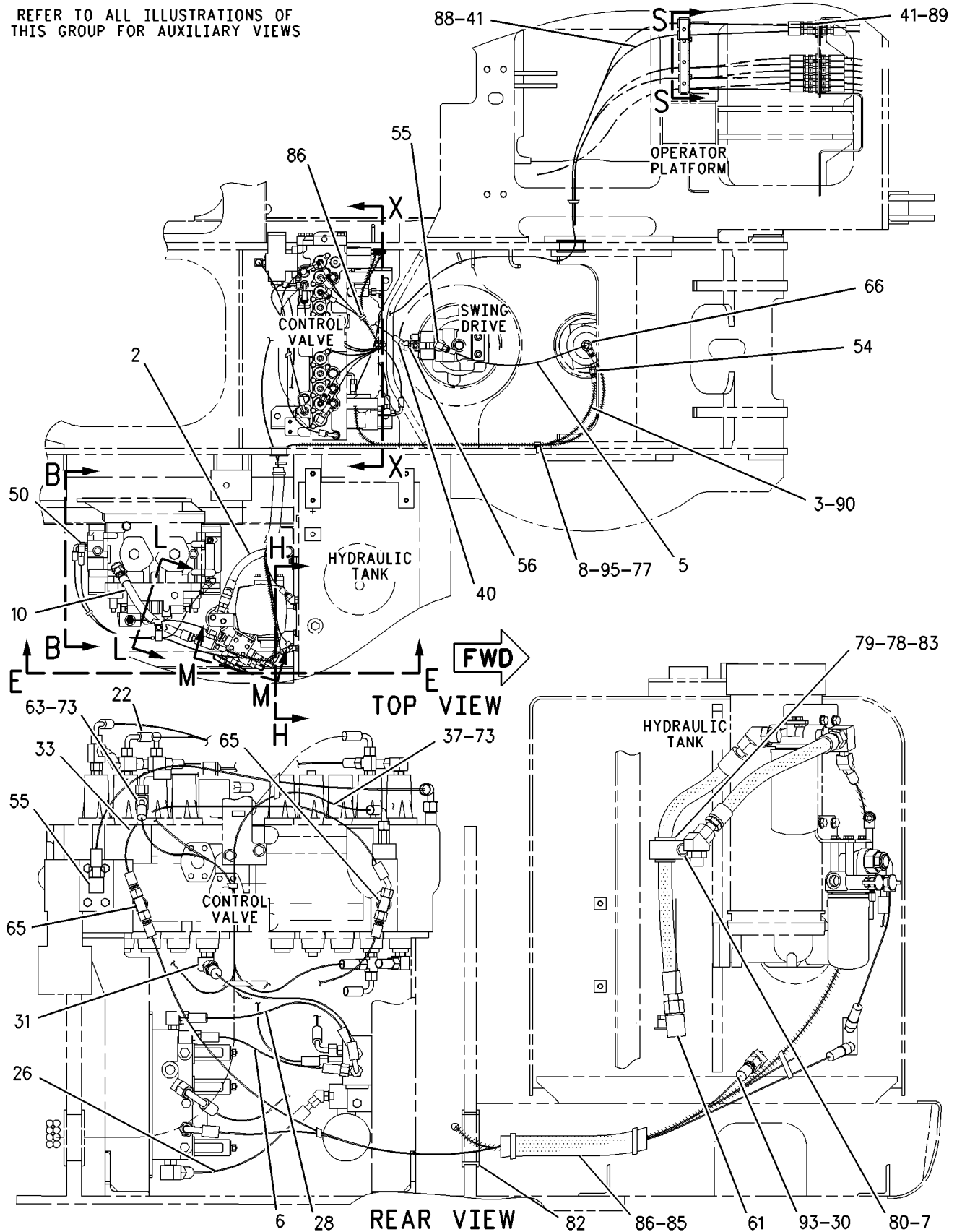
I - SEE HOSE FABRICATION GUIDE
M - METRIC PART
Y - SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

101539760

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



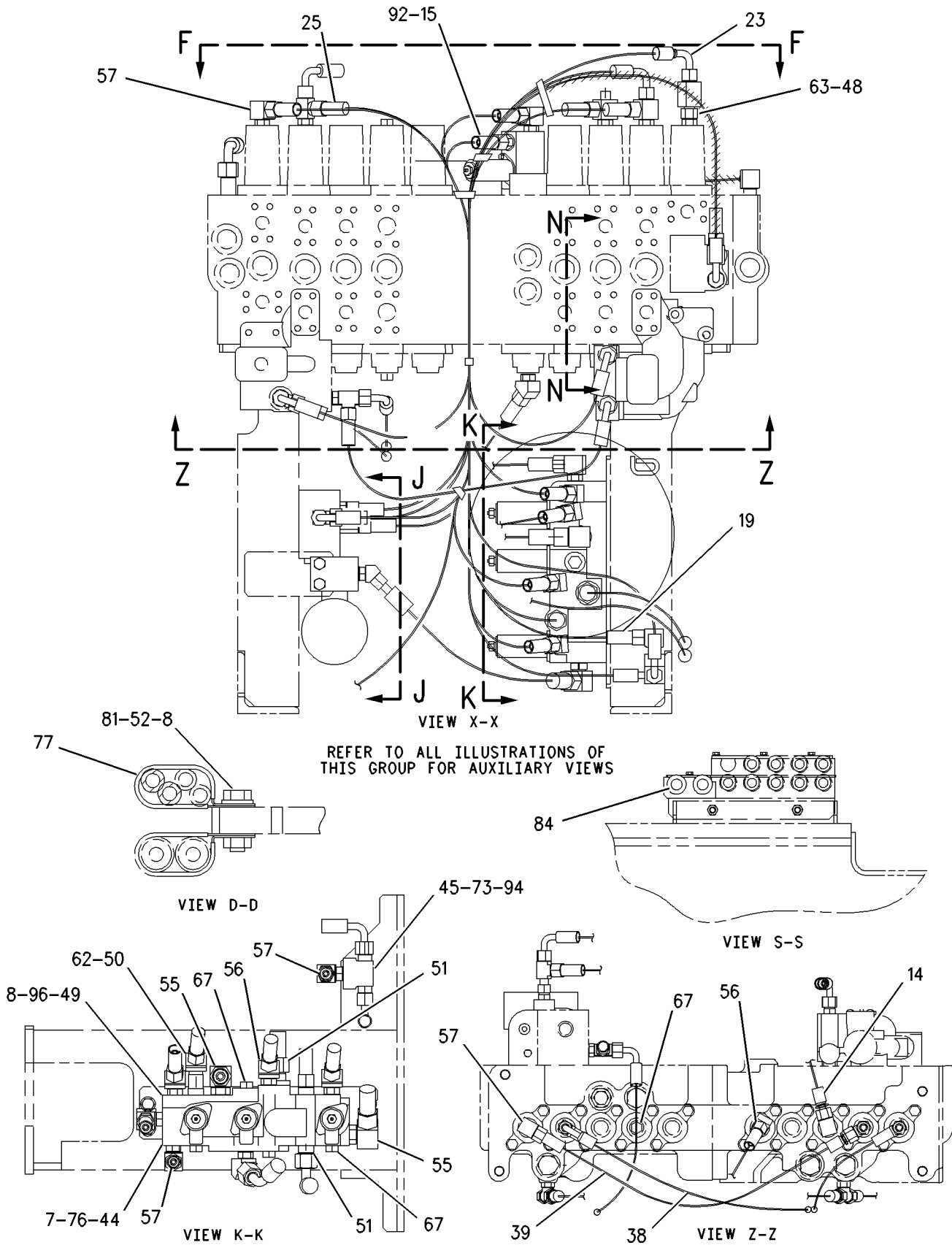
GRAPHIC #1

g00801333

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

i01539760



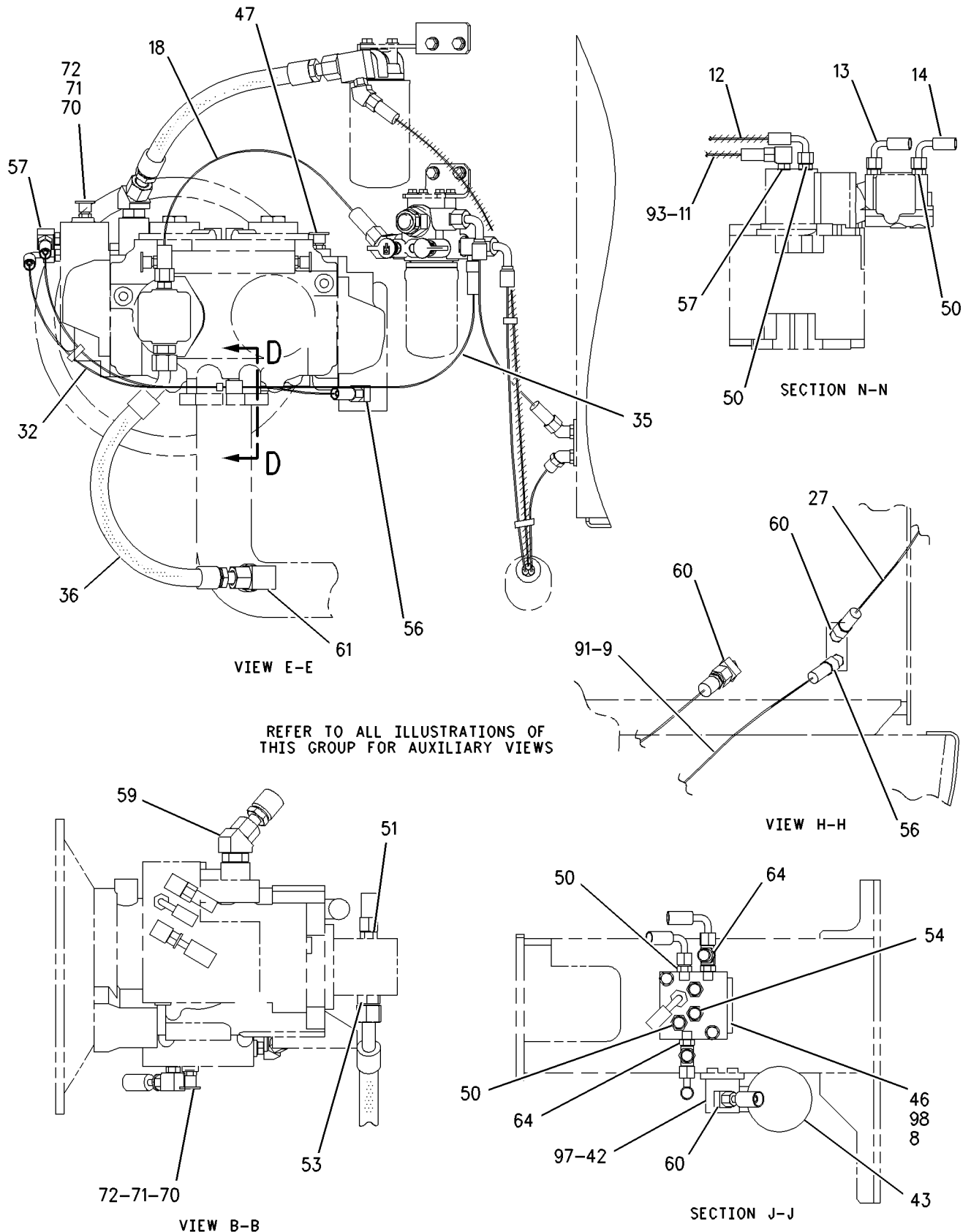
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g00801437

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

i01539760



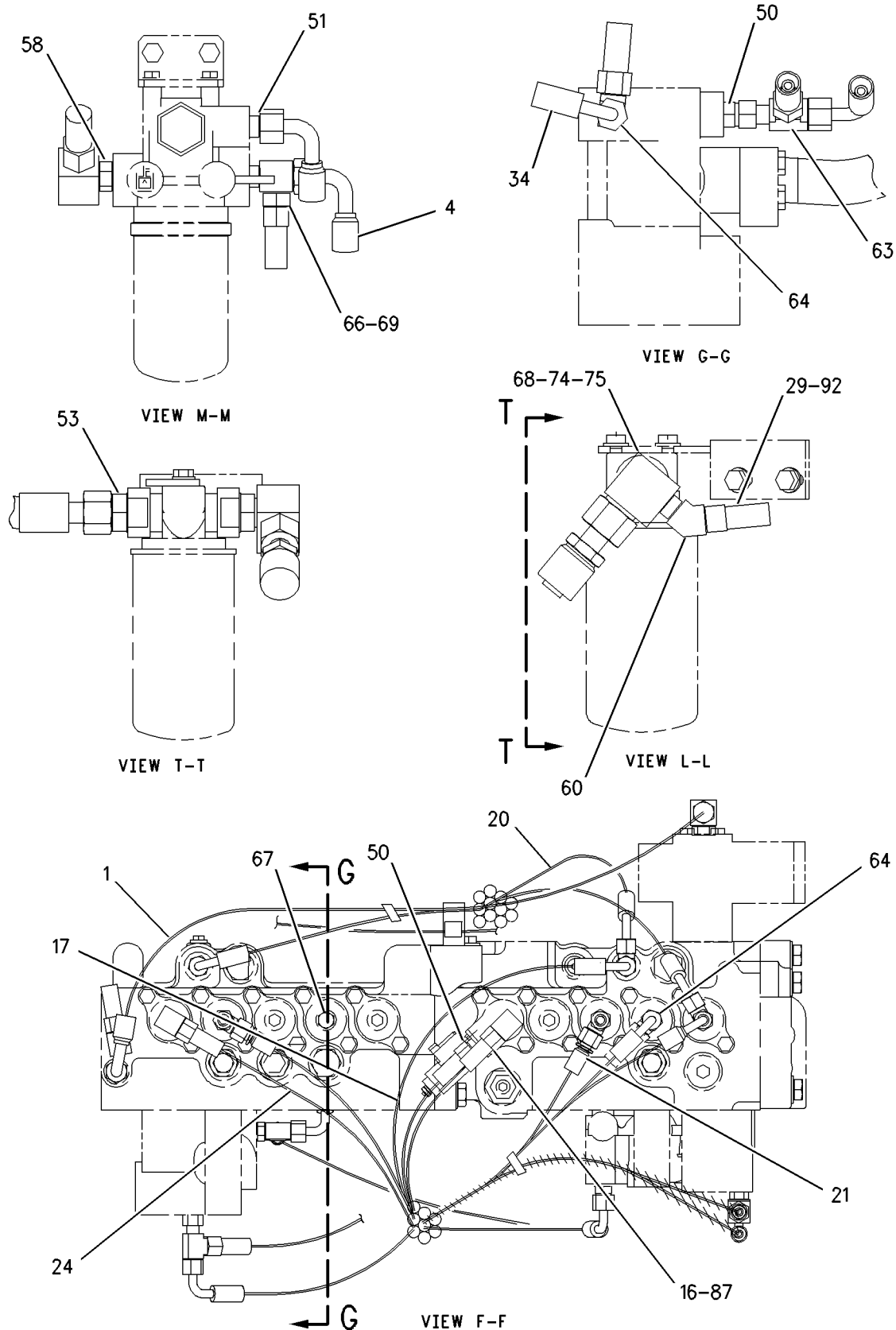
GRAPHIC #3

g00801546

HYDRAULIC SYSTEM

206-9387 LINES GP-PILOT (contd.)

i01539760



GRAPHIC #4

g00801547

MEMORANDA

HYDRAULIC SYSTEM

176-4626 LINES GP-PUMP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

SMCS-5057, 5070

i01521157

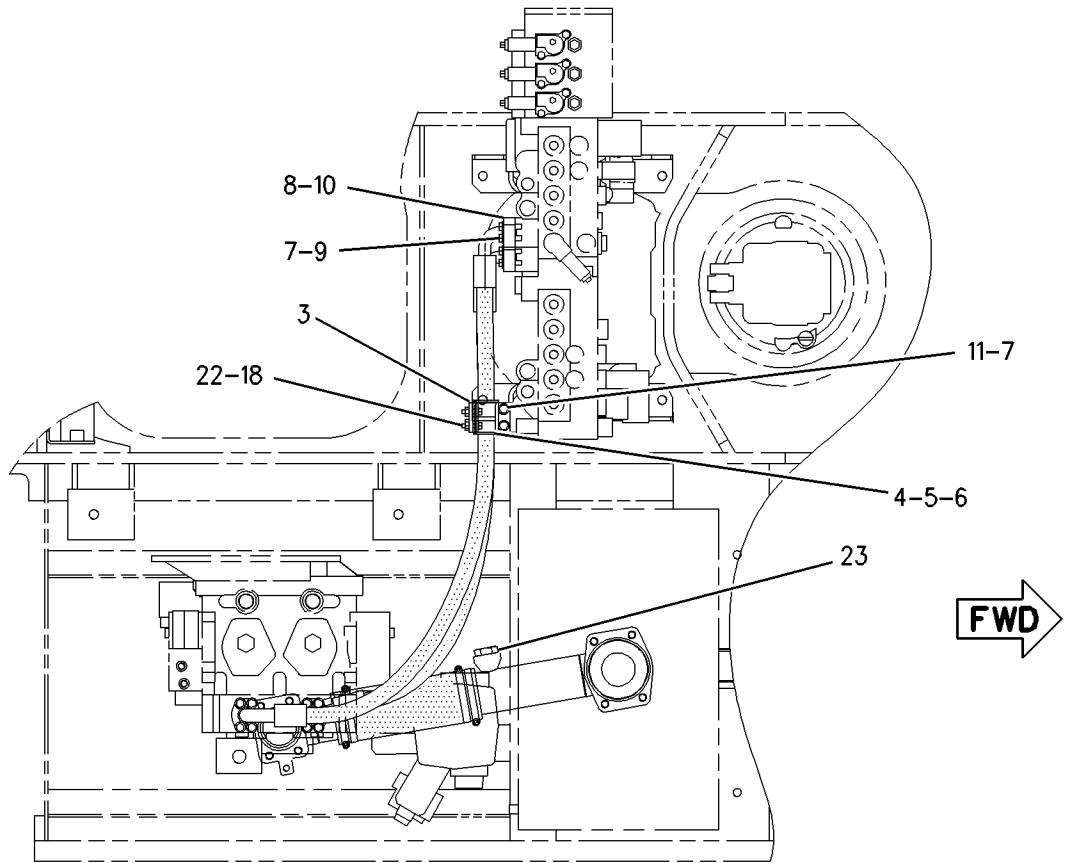
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-8678	1	HOSE						
	2	1	9X-6654	4	CLAMP-HOSE						
	3	1	173-4831	1	SUPPORT AS						
M		1	8T-3490	3	NUT-WELD (M10X1.5 THD)						
	4	1	7G-5984	1	CLIP (TAB)						
	5	1	7G-5985	1	CLIP (SLOT)						
	6	1	7G-5986	1	GROMMET						
	7	1	8T-4223	18	WASHER-HARD (13.5X25.5X3MM THK)						
	8	1	1P-3703	4	SEAL-RECTANGULAR						
M	9	1	8T-4184	16	BOLT (M12X1.75X45MM)						
	10	1	6V-0400	8	FLANGE-HALF						
M	11	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	12	1	5H-8624	1	SEAL-O-RING						
	13	1	179-7500	1	HOSE AS						
	14	1	179-7504	1	HOSE AS						
	15	1	179-7751	1	PIPE AS						
	16	1	148-8407	1	PLUG GP						
		1	3J-1907	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-STRAIGHT THREAD (9/16-18)						
	17	1	179-7753	1	PIPE AS						
M	18	1	8T-4186	2	BOLT (M10X1.5X40MM)						
M	19	1	7X-2553	8	BOLT (M16X2X40MM)						
	20	1	9X-8257	4	WASHER (17.5X30X3.5MM THK)						
	21	1	6D-9157	1	SEAL-O-RING						
	22	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
	23	1	164-5616	1	PLUG AS						
		1	2S-4078	1	SEAL-O-RING						
		1	9S-6130	1	PLUG-O-RING						

M-METRIC PART

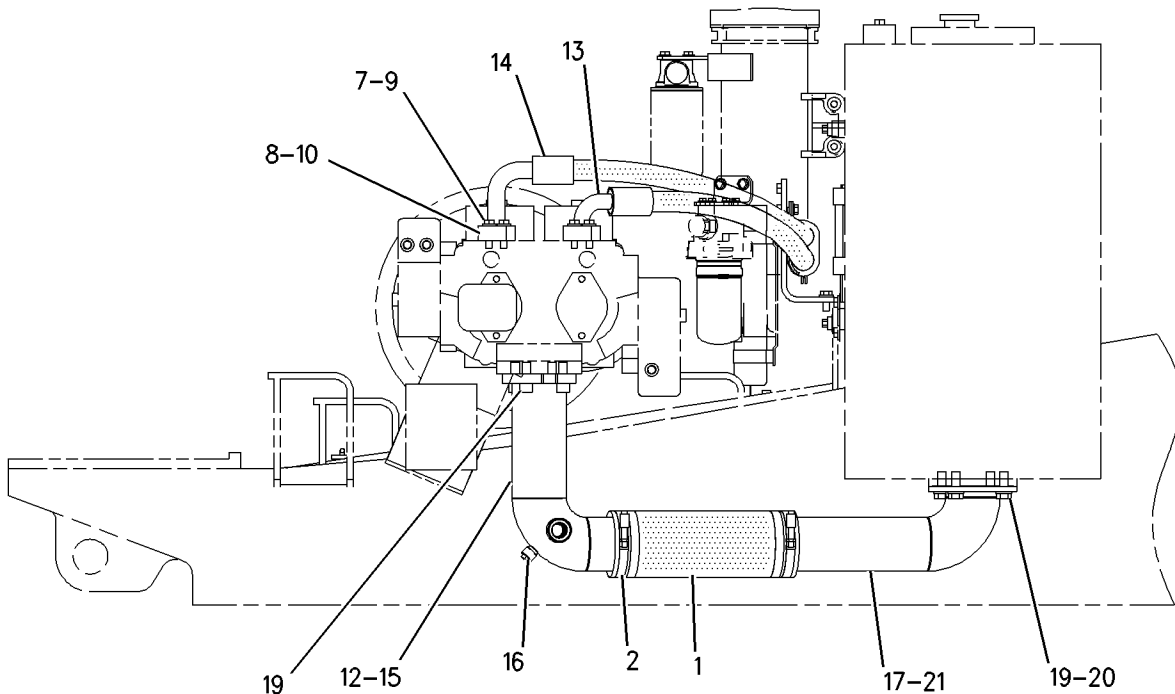
HYDRAULIC SYSTEM

176-4626 LINES GP - PUMP (contd.)

i01521157



TOP VIEW



RIGHT SIDE VIEW

GRAPHIC #1

g00705426

HYDRAULIC SYSTEM

176-4625 LINES GP-RETURN

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

SMCS-5057

i01548953

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	179-7656	1	PIPE AS	
	2	1	179-7653	1	PIPE AS	
M	3	1	8T-4956	5	BOLT (M12X1.75X35MM)	
	4	1	8T-4223	21	WASHER-HARD (13.5X25.5X3MM THK)	
	5	1	176-4706	1	PIPE AS	
	6	1	115-8782	3	HOSE	
	7	1	176-4704	1	PIPE AS	
Y	8	1	173-4672	1	VALVE GP-CHECK	510
	9	1	8T-4984	6	CLAMP-HOSE	
	10	1	5P-7468	1	CLIP (SLOT)	
	11	1	5P-7469	1	CLIP (TAB)	
	12	1	179-7484	1	PIPE AS	
M	13	1	7X-2544	4	BOLT (M10X1.5X104MM)	
	14	1	8T-4121	9	WASHER-HARD (11X21X2.5MM THK)	
	15	1	173-4816	1	SUPPORT AS	
		1	7T-1099	1	LINK	
M		1	8T-3597	1	NUT-WELD (M12X1.75 THD)	
M	16	1	8T-4139	18	BOLT (M12X1.75X30MM)	
	17	1	179-7651	1	PIPE AS	
	18	1	173-4788	2	SWIVEL AS (RETURN LINES)	
	19	1	4J-0524	8	SEAL-O-RING	
M	20	1	7X-2550	4	BOLT (M12X1.75X110MM)	
M	21	1	8T-6868	8	BOLT (M12X1.75X80MM)	
M	22	1	7X-2552	2	BOLT (M16X2X30MM)	
	23	1	187-7010	1	HOSE	
	24	1	7Y-5247	1	U-BOLT	
M	25	1	096-4883	2	LOCKNUT	
	26	1	179-7509	1	PIPE AS	
	27	1	4J-0527	2	SEAL-O-RING	
	28	1	173-4847	1	SUPPORT	
M	29	1	8T-4192	6	BOLT (M12X1.75X25MM)	
	30	1	6V-1874	1	GROMMET	
	31	1	148-8335	1	CONNECTOR GP	
		1	5K-9090	1	SEAL-O-RING	
		1	6V-8635	1	CONNECTOR	
		1	7M-8485	1	SEAL-O-RING	
	32	1	196-0807	1	PLATE	
M	33	1	8T-4136	3	BOLT (M10X1.5X25MM)	
	34	1	8T-6675	2	CLAMP-HOSE	
	35	1	179-7660	1	PLATE	
	36	1	9X-8257	2	WASHER (17.5X30X3.5MM THK)	
	37	1	148-8357	1	ELBOW GP	
		1	5K-9090	1	SEAL-O-RING	
		1	6V-9008	1	ELBOW	
		1	7M-8485	1	SEAL-O-RING	
	38	1	194-0343	1	HOSE AS	
M	39	1	8T-3957	4	BOLT-HEX SOCKET (M12X1.75X30MM)	
	40	1	6J-2680	1	SEAL-O-RING	
	41	1	187-7011	1	PIPE AS	

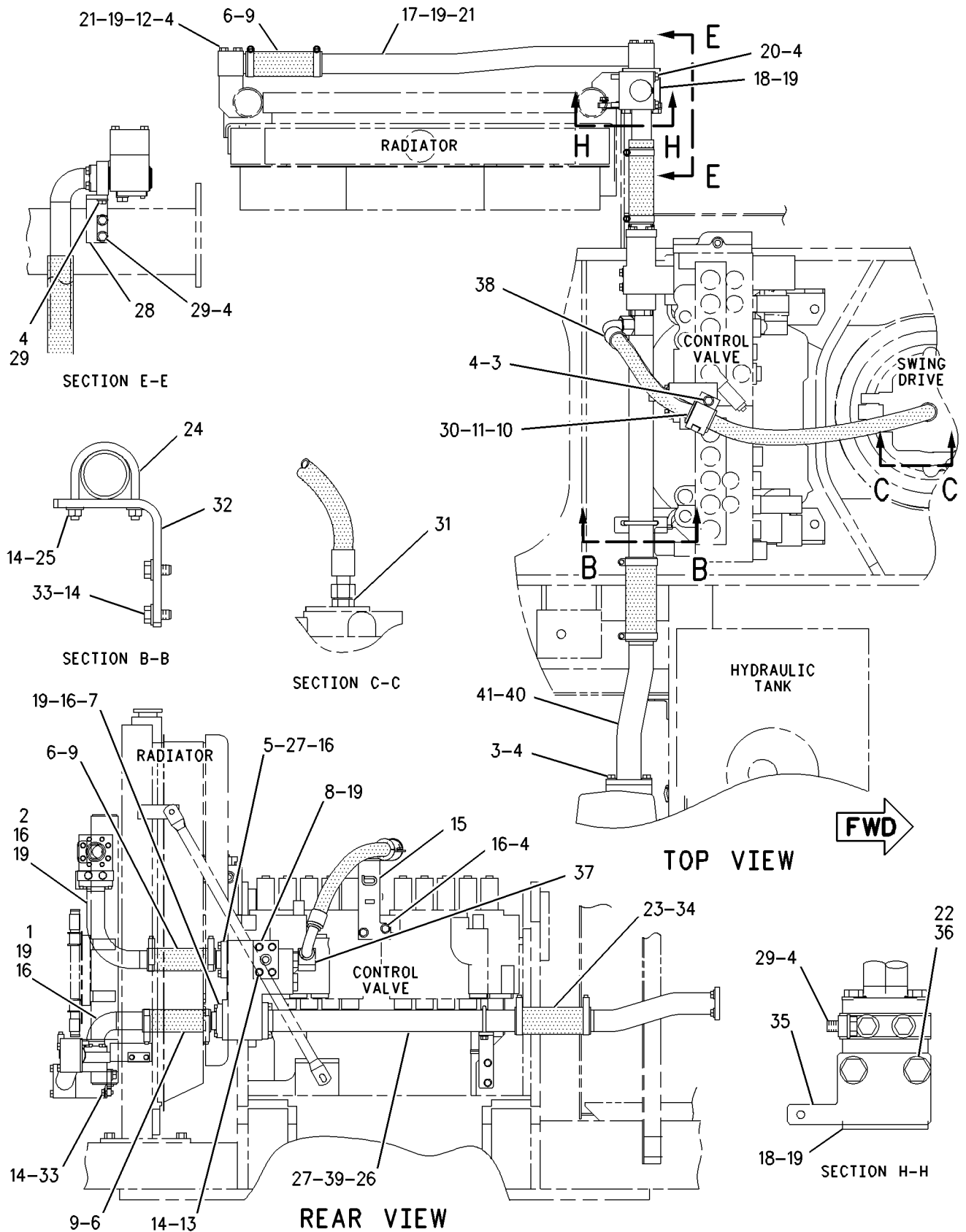
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

176-4625 LINES GP-RETURN (contd.)

i01548953



GRAPHIC #1

g00779471

HYDRAULIC SYSTEM

176-4652 LINES GP-RETURN

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 171-0178 VALVE AR-CHECK & RELIEF

AN ATTACHMENT

SMCS-5057

i01458799

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-8411	1	PLUG AS						
		1	3K-0360	1	SEAL-O-RING						
		1	9S-4185	1	PLUG-O-RING						
	2	1	148-8392	1	ELBOW GP						
		1	6V-9746	1	SEAL-O-RING						
		1	6V-9853	1	ELBOW-SWIVEL						
	3	1	9X-2614	2	CONNECTOR-ORFS						
I	4	1	184-9458	1	HOSE AS						
M	5	1	8T-4192	2	BOLT (M12X1.75X25MM)						
	6	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
	7	1	148-8357	1	ELBOW GP						
		1	5K-9090	1	SEAL-O-RING						
		1	6V-9008	1	ELBOW						
		1	7M-8485	1	SEAL-O-RING						
	8	1	187-5798	1	BLOCK						
	9	1	6V-9746	1	SEAL-O-RING						
	10	1	7M-8485	1	SEAL-O-RING						
	11	1	133-5773	1	HOSE AS						
I	12	1	4I-8826	1	HOSE AS						
	13	1	7K-1181	4	STRAP-CABLE						
	14	1	184-9409	1	SUPPORT AS						
	15	1	4I-1674	2	CLIP						
M	16	1	8T-4139	4	BOLT (M12X1.75X30MM)						
	17	1	148-8372	1	ELBOW GP						
		1	2M-9780	1	SEAL-O-RING						
		1	6V-8398	1	SEAL-O-RING						
		1	6V-8721	1	ELBOW						
	18	1	179-7495	1	BLOCK						
	19	1	148-8388	1	ELBOW GP						
		1	2M-9780	1	SEAL-O-RING						
		1	6V-8629	1	ELBOW-FACE SEAL						
		1	6V-9746	1	SEAL-O-RING						
I	20	1	7I-0948	1	HOSE AS						
	21	1	3J-1907	2	SEAL-O-RING						
	22	1	6V-8397	2	SEAL-O-RING						

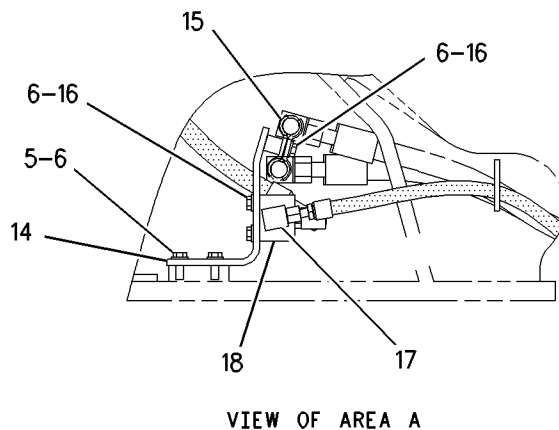
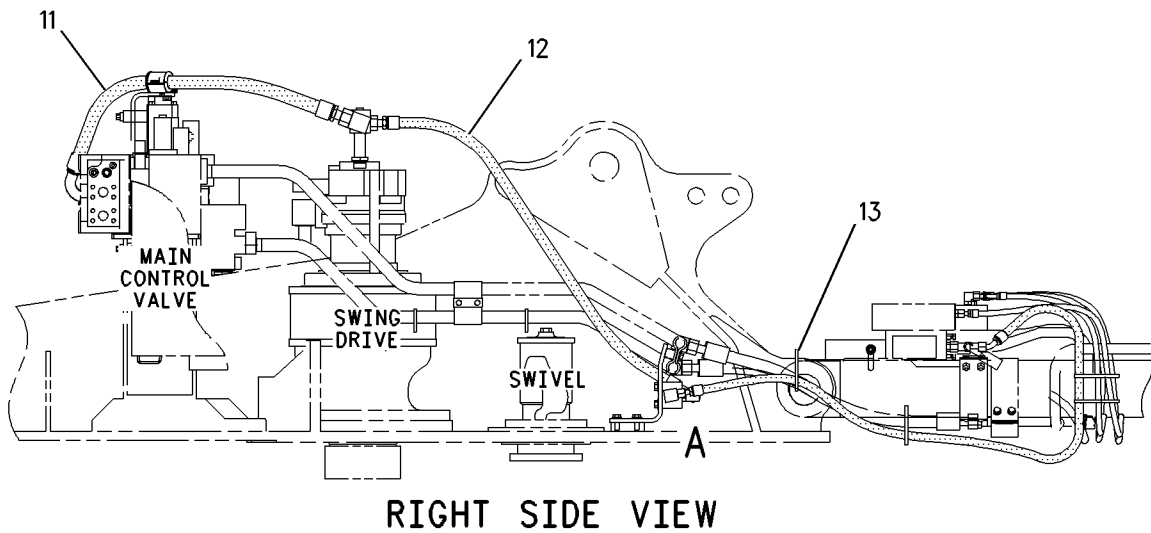
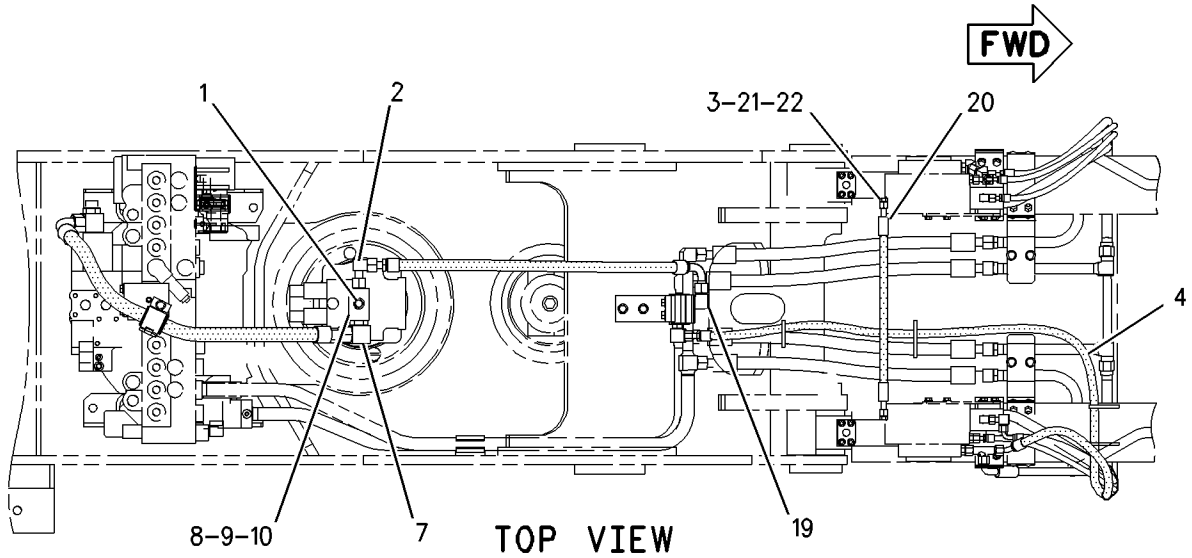
I-SEE HOSE FABRICATION GUIDE

M-METRIC PART

HYDRAULIC SYSTEM

176-4652 LINES GP-RETURN (contd.)

i01458799



GRAPHIC #1

g00764215

HYDRAULIC SYSTEM

104-8892 LINES GP-STICK

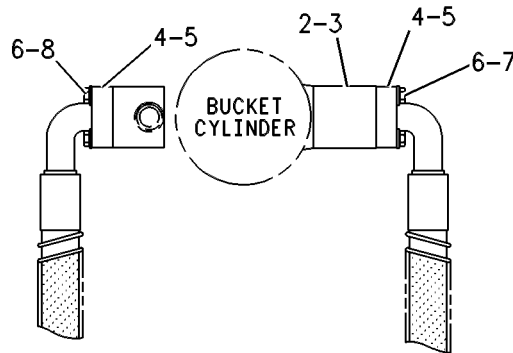
S/N: BPH1-UP; CAM1-UP
PART OF 197-3281 STICK AR
AN ATTACHMENT

SMCS-5057, 5458

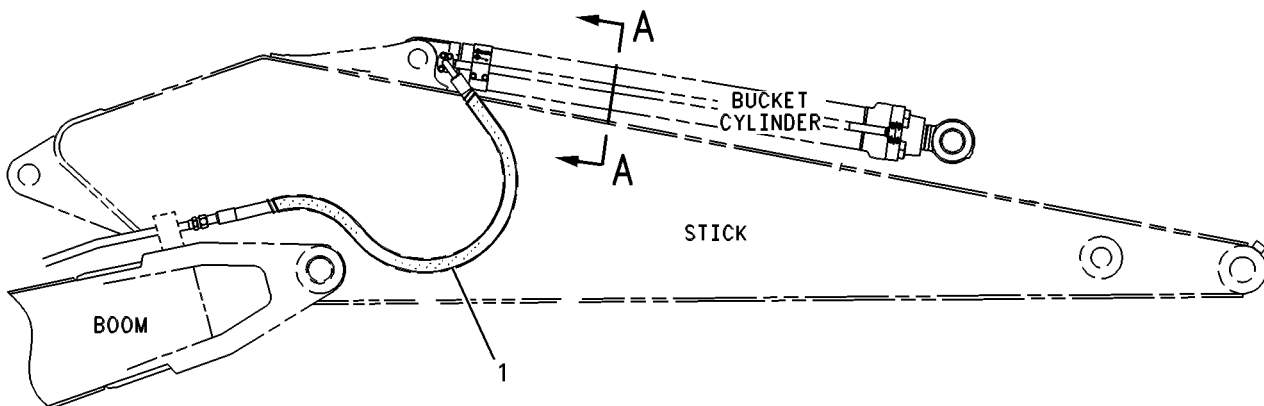
i00617293

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	5I-4490	2	HOSE AS						
	2	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)						
	3	1	5I-4174	1	BLOCK						
	4	1	1P-3702	2	SEAL-RECTANGULAR (28.83MM ID)						
	5	1	8T-9403	4	FLANGE-HALF						
	6	1	8T-4121	8	WASHER (2.5MM THK)						
M	7	1	8T-4198	4	BOLT (M10X1.50X100MM)						
M	8	1	8T-4182	4	BOLT (M10X1.5X45MM)						

I-SEE HOSE FABRICATION GUIDE
M-METRIC PART



VIEW A-A



RIGHT SIDE VIEW

GRAPHIC #1

g00265865

MEMORANDA

HYDRAULIC SYSTEM

135-2053 LINES GP-STICK

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR
AN ATTACHMENT

SMCS-5057, 5458

i01241564

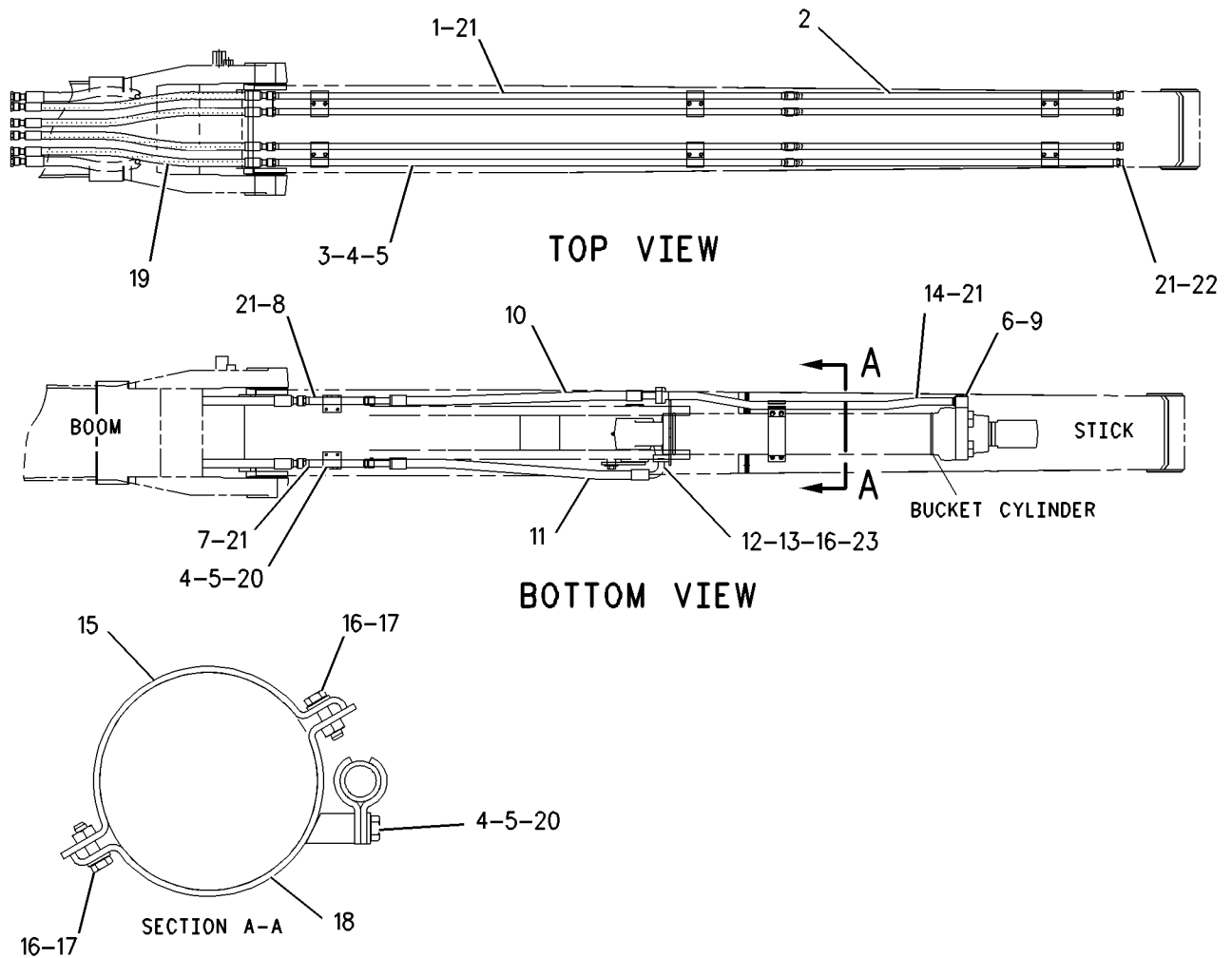
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	138-8704	4	TUBE AS						
	2	1	133-0006	4	TUBE AS						
	3	1	4I-1674	12	CLIP						
M	4	1	8T-4139	18	BOLT (M12X1.75X30MM)						
	5	1	8T-4223	18	WASHER-HARD (3MM THK)						
M	6	1	8T-4185	4	BOLT (M10X1.5X50MM)						
	7	1	138-8706	1	TUBE AS						
	8	1	138-8705	1	TUBE AS						
	9	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)						
I	10	1	138-8707	1	HOSE AS						
I	11	1	138-8709	1	HOSE AS						
	12	1	1P-3702	1	SEAL-RECTANGULAR (28.83MM ID)						
	13	1	1P-5765	2	FLANGE-HALF						
	14	1	138-8713	1	TUBE AS						
	15	1	119-2382	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
	16	1	8T-4121	8	WASHER-HARD (2.5MM THK)						
M	17	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	18	1	119-2381	1	SUPPORT AS						
I	19	1	133-0001	6	HOSE AS						
	20	1	7Y-4531	6	CLAMP-HALF						
	21	1	6V-9746	17	SEAL-O-RING (18.94MM ID)						
	22	1	6V-9832	4	CAP AS (1-3/16-12 THD)						
M	23	1	8T-4182	4	BOLT (M10X1.5X45MM)						

I - SEE HOSE FABRICATION GUIDE
M - METRIC PART

HYDRAULIC SYSTEM

135 - 2053 LINES GP - STICK (contd.)

i01241564



GRAPHIC #1

g00663475

HYDRAULIC SYSTEM

139-8925 LINES GP-STICK

S/N: CBY1-UP

PART OF 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-5057, 5458

i01132086

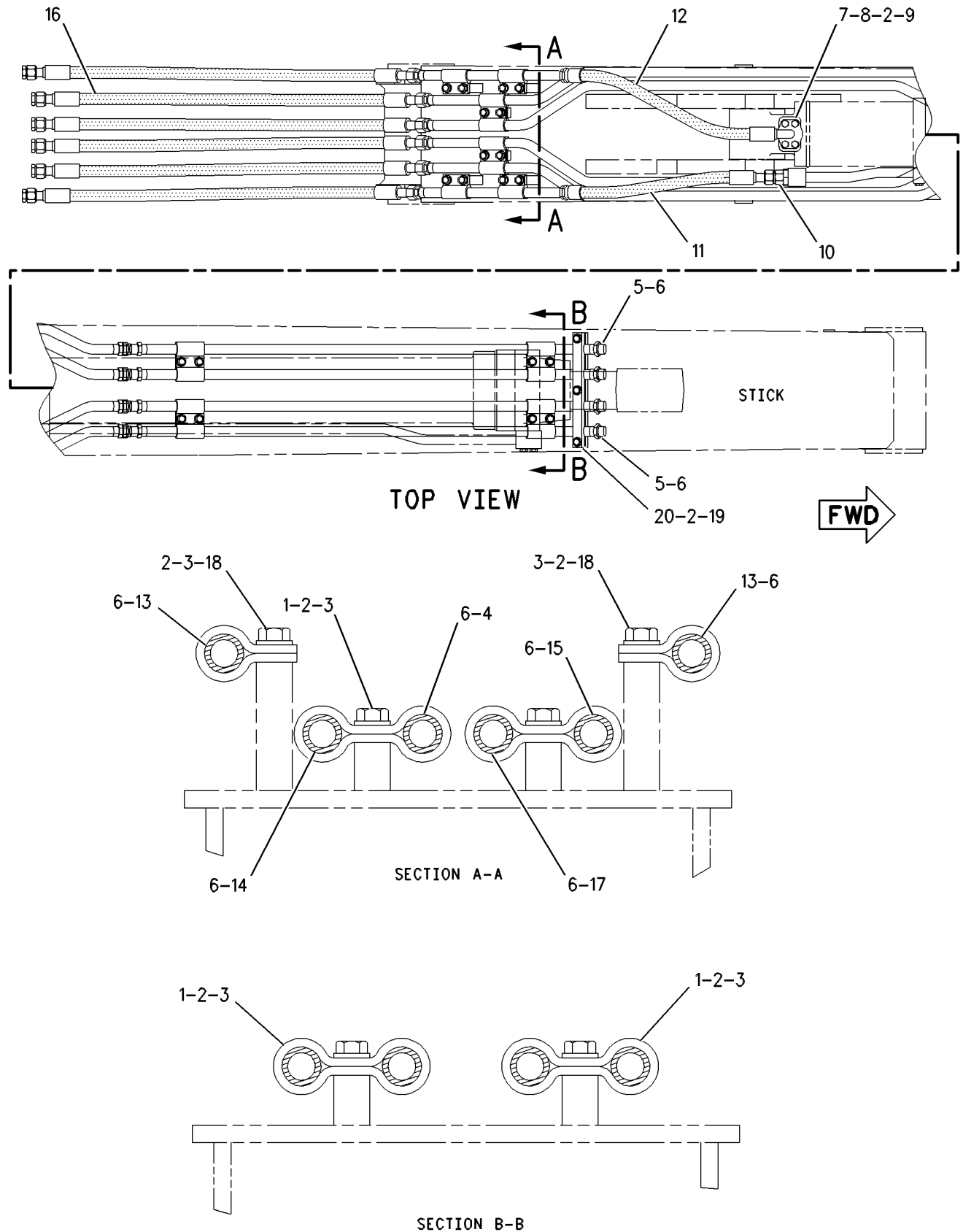
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-1674	12	CLIP						
	2	1	8T-4223	30	WASHER-HARD (3MM THK)						
M	3	1	8T-4139	20	BOLT (M12X1.75X30MM)						
	4	1	143-9794	1	TUBE AS						
	5	1	165-1850	4	TUBE AS						
	6	1	6V-9746	16	SEAL-O-RING (18.94MM ID)						
	7	1	1P-5766	2	FLANGE-HALF						
	8	1	1P-3703	1	SEAL-RECTANGULAR (31.86MM ID)						
M	9	1	8T-4194	4	BOLT (M12X1.75X50MM)						
	10	1	6V-8946	1	REDUCER AS						
I	11	1	143-9798	1	HOSE AS						
I	12	1	143-9799	1	HOSE AS						
	13	1	143-9796	2	TUBE AS						
	14	1	143-9792	1	TUBE AS						
	15	1	143-9793	1	TUBE AS						
I	16	1	133-0001	6	HOSE AS						
	17	1	143-9795	1	TUBE AS						
	18	1	7Y-4868	8	CLIP						
M	19	1	8T-4176	3	BOLT (M12X1.75X90MM)						
M	20	1	8T-4244	3	NUT (M12X1.75 THD)						

I- SEE HOSE FABRICATION GUIDE
M-METRIC PART

HYDRAULIC SYSTEM

139-8925 LINES GP-STICK (contd.)

i01132086



GRAPHIC #1

g00598793

HYDRAULIC SYSTEM

118-4122 LINES GP-STICK CYLINDER

S/N: BPH1-UP; CAM1-UP

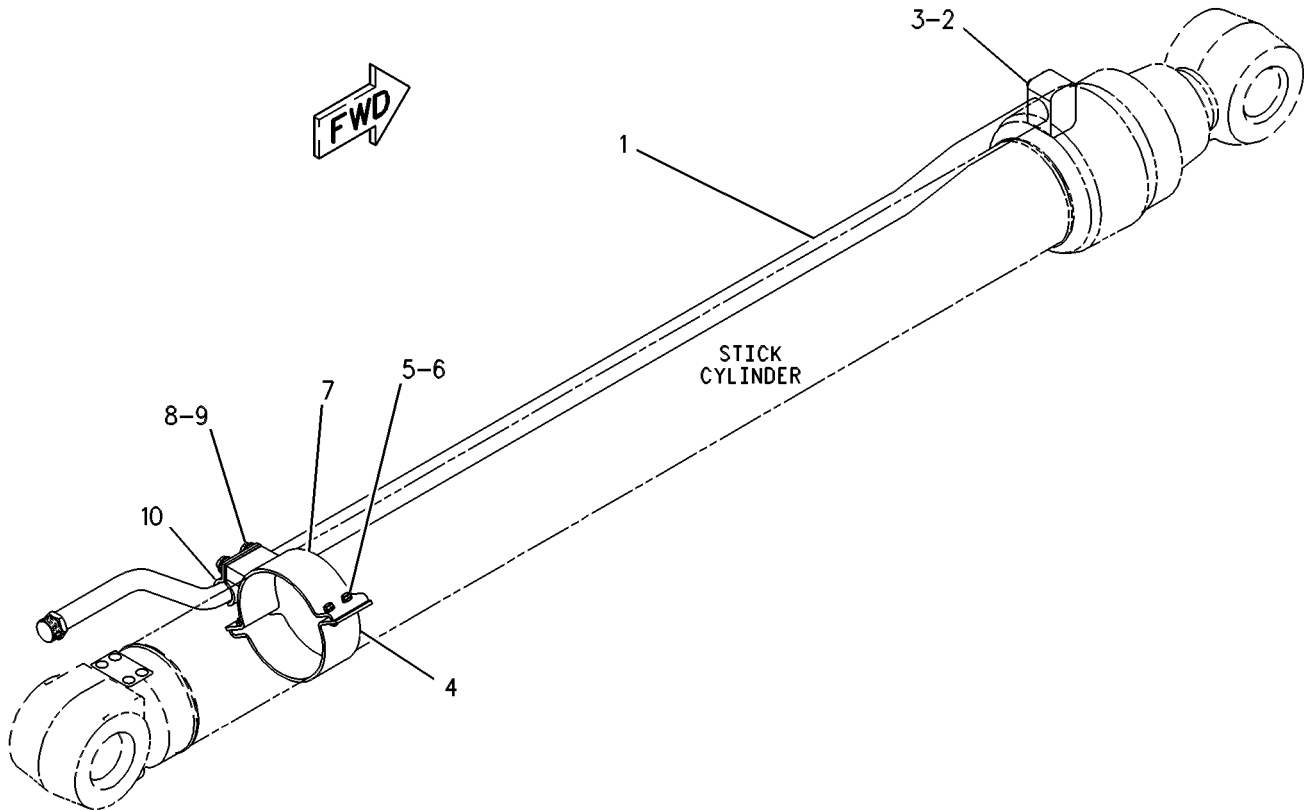
PART OF 205-1184 CYLINDER & LINES GP-BOOM
AN ATTACHMENT

SMCS-5458

i00617947

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7I-8127	1	TUBE AS						
M	2	1	8T-4648	4	BOLT (M12X1.75X70MM)						
	3	1	1P-3704	1	SEAL-RECTANGULAR (38.2MM ID)						
	4	1	119-2325	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	5	1	8T-4196	4	BOLT (M10X1.50X35MM)						
	6	1	8T-4121	4	WASHER (2.5MM THK)						
	7	1	124-1187	1	SUPPORT AS						
M		1	8T-3490	2	NUT-WELD (M10X1.5 THD)						
M	8	1	8T-4139	2	BOLT (M12X1.75X30MM)						
	9	1	8T-4223	2	WASHER-HARD (3MM THK)						
	10	1	7Y-3732	2	CLIP						

M-METRIC PART



GRAPHIC #1

g00264170

HYDRAULIC SYSTEM

133-6774 LINES GP-STICK CYLINDER

S/N: CBY1-UP

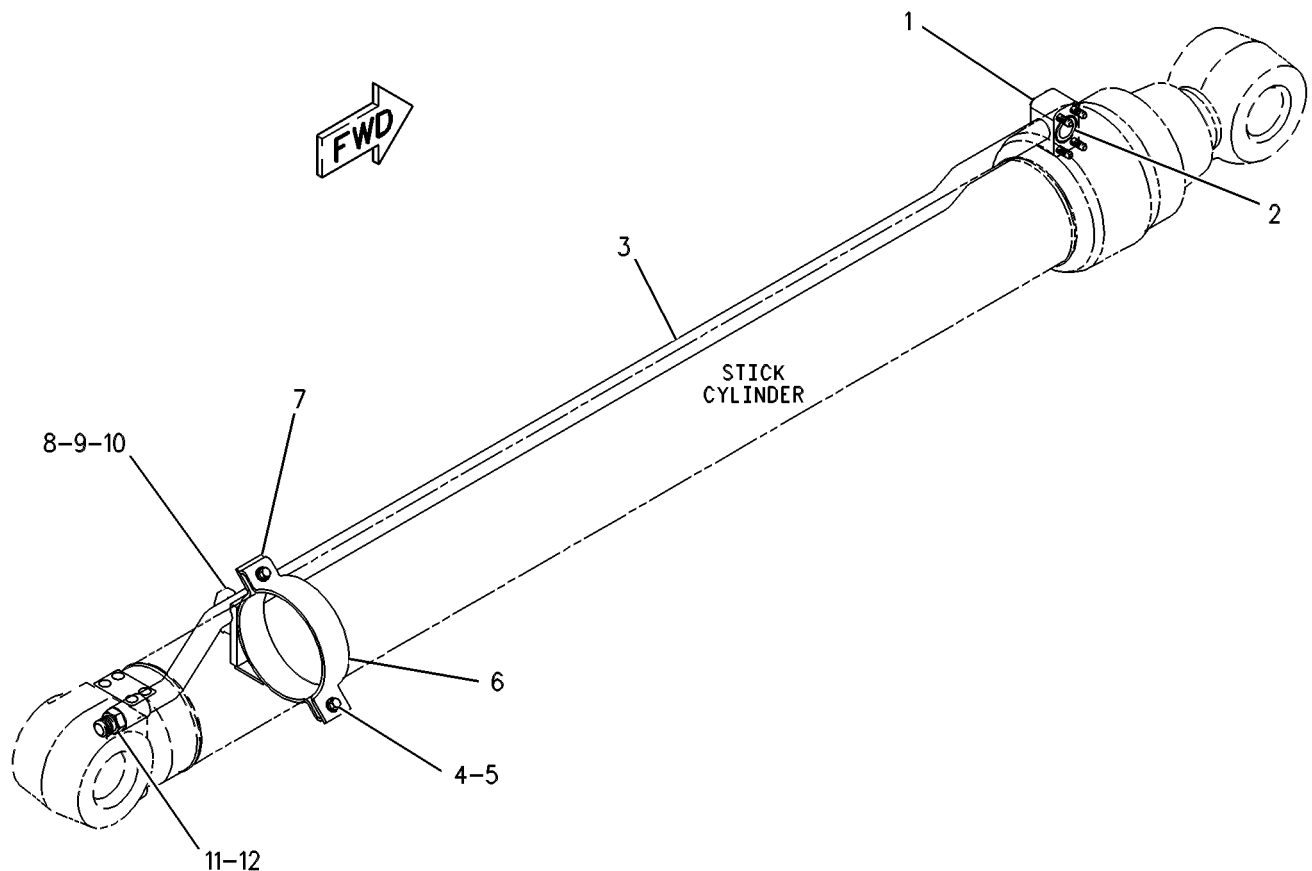
PART OF 133-6817 CYLINDER & LINES GP-STICK
AN ATTACHMENT

SMCS-5458

i00619355

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-0343	4	BOLT-SOCKET HEAD						
	2	1	095-1600	1	SEAL-O-RING (33.70MM ID)						
	3	1	133-6840	1	TUBE AS						
M	4	1	8T-4196	2	BOLT (M10X1.50X35MM)						
	5	1	095-9397	2	LOCKWASHER (2.5MM THK)						
	6	1	124-0914	1	SUPPORT						
	7	1	124-0913	1	SUPPORT AS						
M	8	1	8T-4910	1	BOLT (M12X1.75X60MM)						
	9	1	9F-4976	1	LOCKWASHER						
	10	1	096-4447	1	CLAMP						
	11	1	096-6223	1	CONNECTOR						
	12	1	095-1596	1	SEAL-O-RING						

M-METRIC PART



GRAPHIC #1

g00276710

HYDRAULIC SYSTEM

196-3651 LINES GP-SWING MOTOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

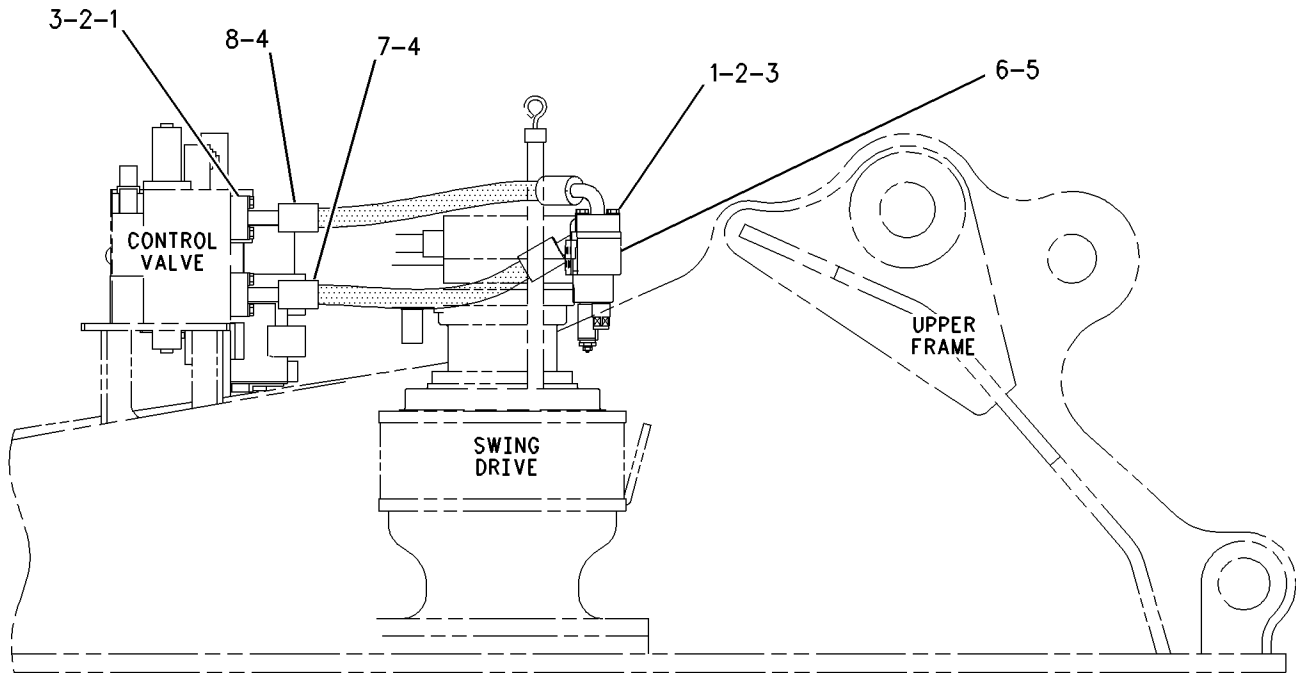
SMCS-5057

i01407659

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-9403	8	FLANGE - HALF						
M	2	1	8T-4182	16	BOLT (M10X1.5X45MM)						
	3	1	8T-4121	16	WASHER - HARD (11X21X2.5MM THK)						
	4	1	1P-3702	4	SEAL - RECTANGULAR						
M	5	1	8T-4178	6	BOLT (M10X1.5X90MM)						
Y	6	1	158-9090	1	VALVE GP-SWING CUSHION						587
	7	1	179-7747	1	HOSE AS						
	8	1	179-7743	1	HOSE AS						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW

GRAPHIC #1

g00743029

MEMORANDA

HYDRAULIC SYSTEM

176-4620 LINES GP-TRAVEL MOTOR

S/N: BPH1-UP

PART OF 186-3942 HYDRAULIC AR

SMCS-3218

i01503329

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	159-7841	1	SWIVEL GP	498
M	2	1	8T-4136	6	BOLT (M10X1.5X25MM)	
	3	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)	
	4	1	1U-8846	1	SEALANT-GASKET	
	5	1	5K-9090	4	SEAL-O-RING	
M	6	1	9X-6032	16	BOLT-SOCKET HEAD (M10X1.5X30MM)	
	7	1	4J-5267	4	SEAL-O-RING	
	8	1	7Y-3730	2	FLANGE	
	9	1	113-6479	2	FLANGE	
	10	1	179-7885	2	HOSE AS	
	11	1	179-7893	1	HOSE AS	
I	12	2	115-8749	4	HOSE AS	
M	13	1,2	8T-4184	48	BOLT (M12X1.75X45MM)	
	14	1,2	8T-4223	48	WASHER-HARD (13.5X25.5X3MM THK)	
	15	1,2	6V-0400	24	FLANGE-HALF	
	16	1,2	1P-3703	12	SEAL-RECTANGULAR	
	17	2	4I-5546	1	SUPPORT	
M	18	2	8T-4648	2	BOLT (M12X1.75X70MM)	
	19	2	5P-1076	2	WASHER-HARD (13.5X30X4MM THK)	
	20	1	164-5552	1	CONNECTOR AS	
		1	3D-2824	1	SEAL-O-RING	
		1	4I-7745	1	CONNECTOR	
		1	6V-8398	1	SEAL-O-RING	
	21	1	150-4037	1	TEE GP	
		1	6V-8398	2	SEAL-O-RING	
		1	6V-9844	1	TEE-SWIVEL	
	22	1,2	148-8364	2	ELBOW GP	
					(EACH INCLUDES)	
		1,2	3K-0360	1	SEAL-O-RING	
		1,2	6V-8398	1	SEAL-O-RING	
		1,2	6V-8625	1	ELBOW	
	23	2	108-7118	2	GROMMET	
	24	1,2	187-7015	2	HOSE AS	
	25	2	148-8439	1	TEE GP	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	2	SEAL-O-RING	
		2	6V-8774	1	TEE	
	26	2	7K-1181	4	STRAP-CABLE	
	27	2	115-8728	2	GROMMET	
I	28	1,2	4I-0812	2	HOSE AS	
	29	1,2	148-8336	2	CONNECTOR GP	
					(EACH INCLUDES)	
		1,2	3J-1907	1	SEAL-O-RING	
		1,2	6V-8397	1	SEAL-O-RING	
		1,2	6V-8636	1	CONNECTOR	
	30	1	194-0339	1	HOSE AS	

I-SEE HOSE FABRICATION GUIDE

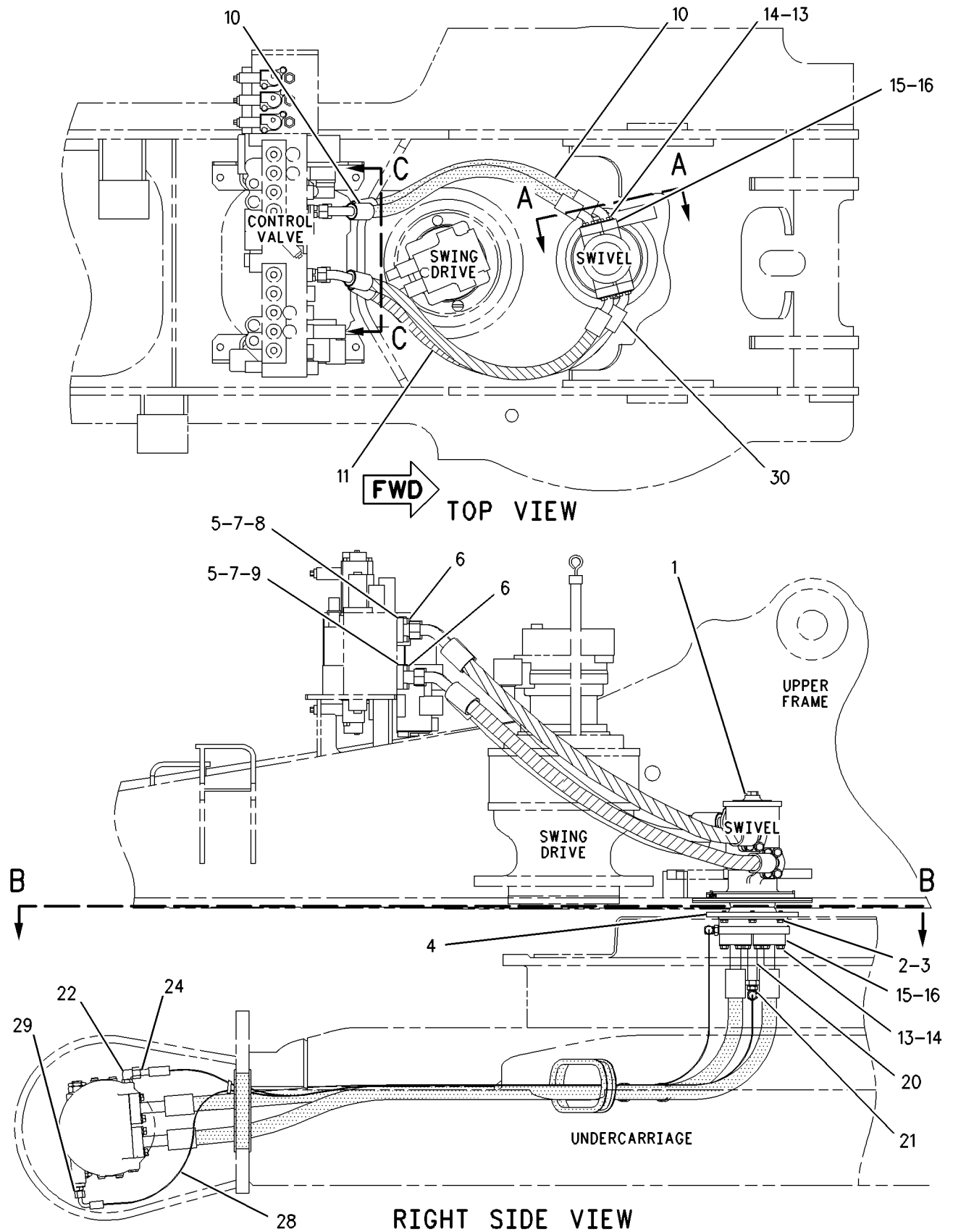
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

176-4620 LINES GP-TRAVEL MOTOR (contd.)

i01503329



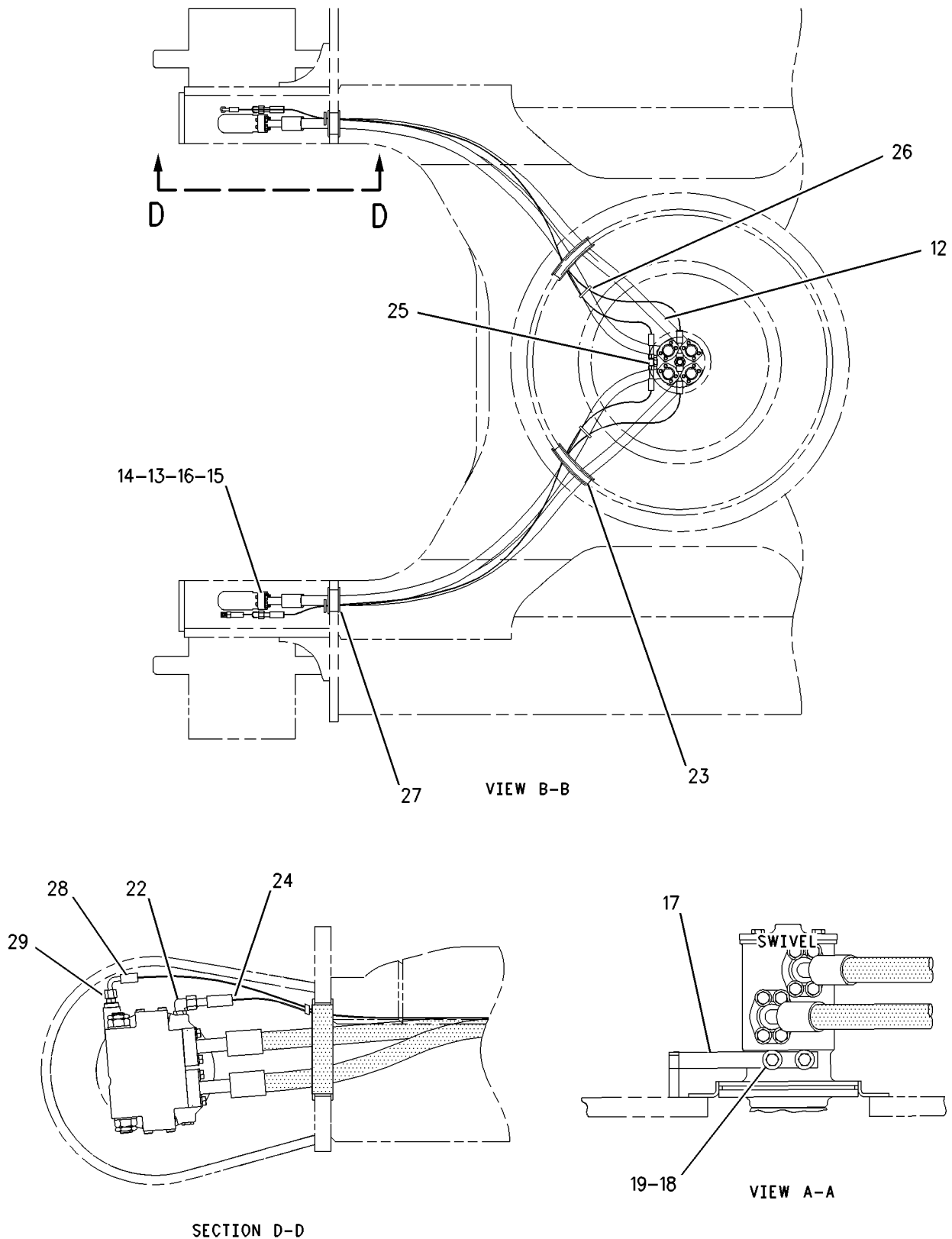
GRAPHIC #1

g00779972

HYDRAULIC SYSTEM

176-4620 LINES GP-TRAVEL MOTOR (contd.)

i01503329



GRAPHIC #2

g00714392

MEMORANDA

HYDRAULIC SYSTEM

187-7161 LINES GP-TRAVEL MOTOR

S/N: CAM1-UP; CBY1-UP

HIGH WIDE

PART OF 186-3943, 196-3255 HYDRAULIC AR

SMCS-3218

101515852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	159-7841	1	SWIVEL GP	498
	2	1	179-7885	2	HOSE AS	
	3	1	179-7893	1	HOSE AS	
	4	1	194-0339	1	HOSE AS	
I	5	2	119-2395	4	HOSE AS	
I	6	1	121-6366	2	HOSE AS	
I	7	1	4I-5792	2	HOSE AS	
	8	2	199-1845	2	TUBE AS	
	9	1	199-1846	1	TUBE AS	
	10	2	199-1847	1	TUBE AS	
	11	1,2	6V-0400	24	FLANGE-HALF	
	12	1	7Y-3730	2	FLANGE	
	13	1	113-6479	2	FLANGE	
	14	2	4I-5546	1	SUPPORT	
B	15	1	1U-8846		SEALANT-GASKET	
	16	2	164-5552	1	CONNECTOR AS	
		2	3D-2824	1	SEAL-O-RING	
		2	4I-7745	1	CONNECTOR	
		2	6V-8398	1	SEAL-O-RING	
	17	1,2	164-1930	1	CONNECTOR AS	
					(EACH INCLUDES)	
		1,2	6V-6560	1	SEAL-O-RING	
		1,2	6V-8397	1	SEAL-O-RING	
		1,2	8T-7489	1	CONNECTOR	
	18	2	148-8364	2	ELBOW GP	
					(EACH INCLUDES)	
		2	3K-0360	1	SEAL-O-RING	
		2	6V-8398	1	SEAL-O-RING	
		2	6V-8625	1	ELBOW	
	19	2	148-8439	1	TEE GP	
		2	3J-1907	1	SEAL-O-RING	
		2	6V-8397	2	SEAL-O-RING	
		2	6V-8774	1	TEE	
	20	2	150-4037	1	TEE GP	
		2	6V-8398	2	SEAL-O-RING	
		2	6V-9844	1	TEE-SWIVEL	
	21	1,2	1P-3703	16	SEAL-RECTANGULAR	
	22	1	4J-5267	4	SEAL-O-RING	
	23	1	5K-9090	4	SEAL-O-RING	
	24	2	108-7118	4	GROMMET	
M	25	1	8T-4136	6	BOLT (M10X1.5X25MM)	
M	26	1	9X-6032	16	BOLT-SOCKET HEAD (M10X1.5X30MM)	
M	27	1,2	8T-4139	16	BOLT (M12X1.75X30MM)	
M	28	1,2	8T-4184	32	BOLT (M12X1.75X45MM)	
M	29	2	8T-4194	16	BOLT (M12X1.75X50MM)	
M	30	2	8T-4648	2	BOLT (M12X1.75X70MM)	
	31	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)	
	32	1,2	8T-4223	60	WASHER-HARD (13.5X25.5X3MM THK)	
	33	2	5P-1076	2	WASHER-HARD (13.5X30X4MM THK)	
	34	2	7K-1181	6	STRAP-CABLE	

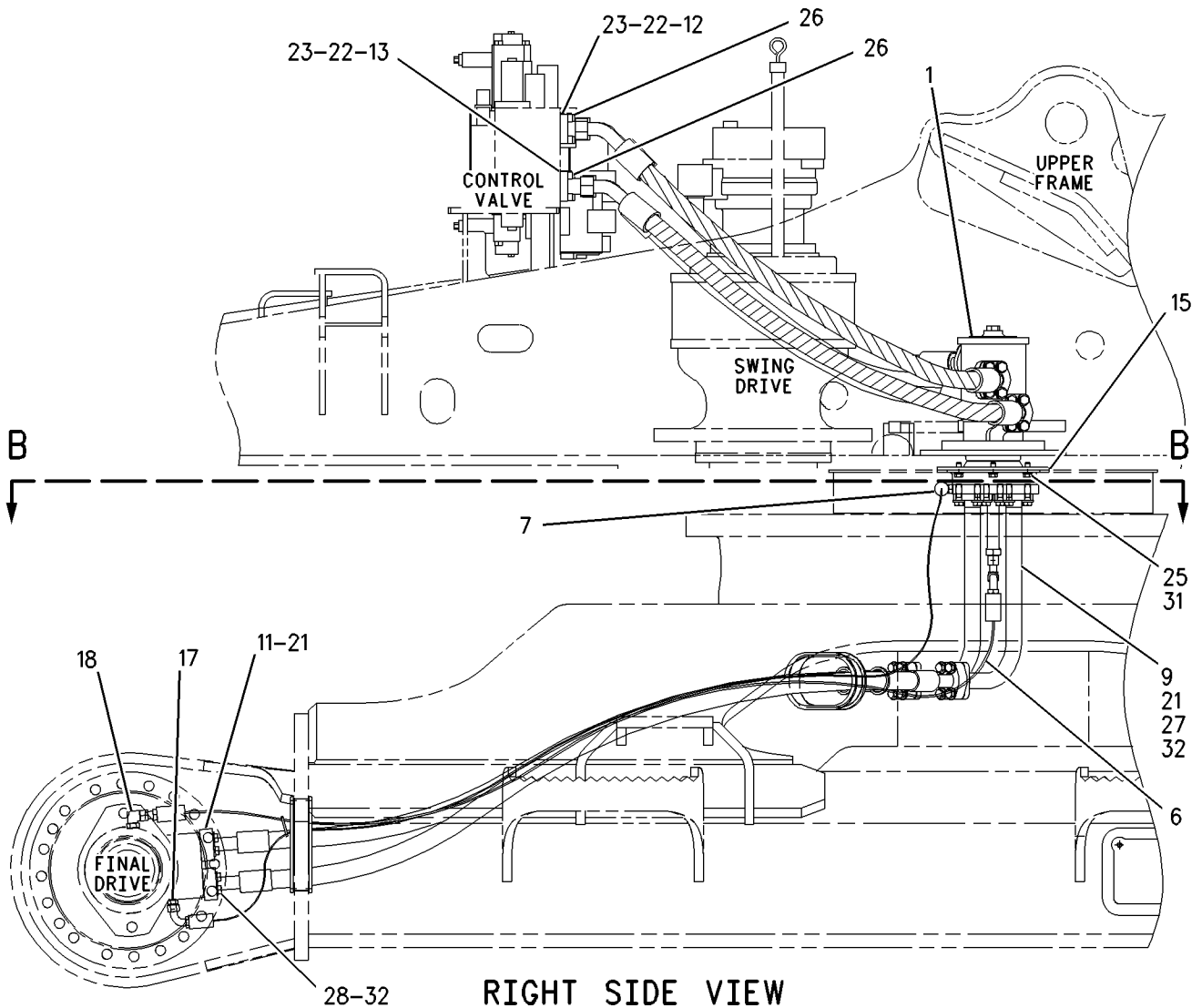
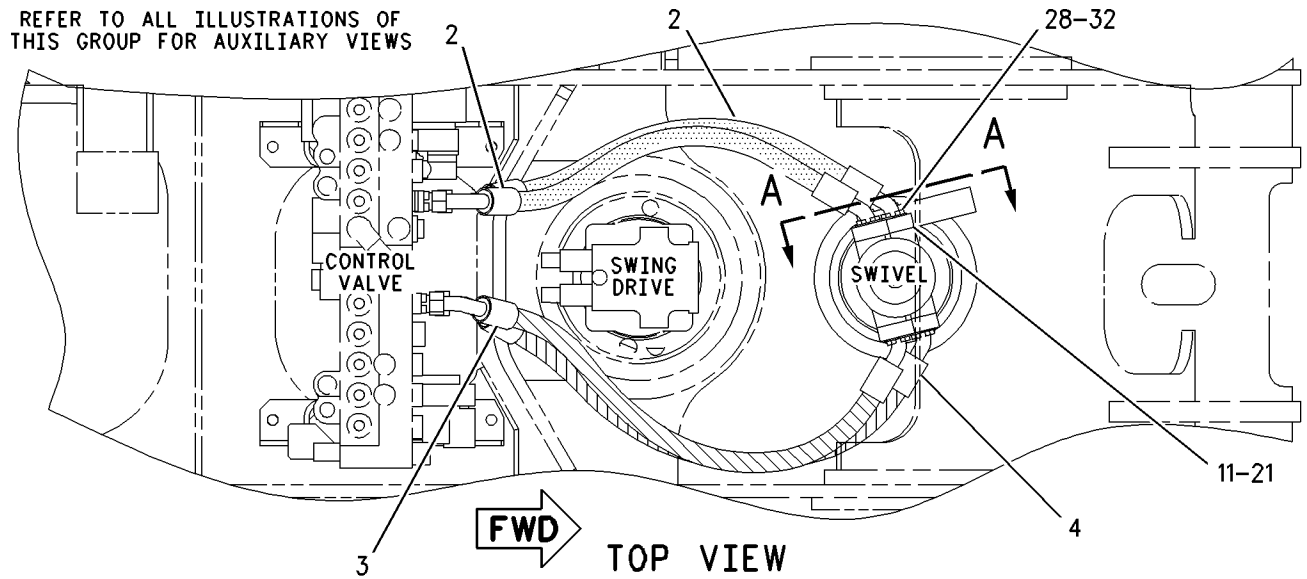
B-USE AS REQUIRED
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-7161 LINES GP-TRAVEL MOTOR (contd.)

i01515852

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



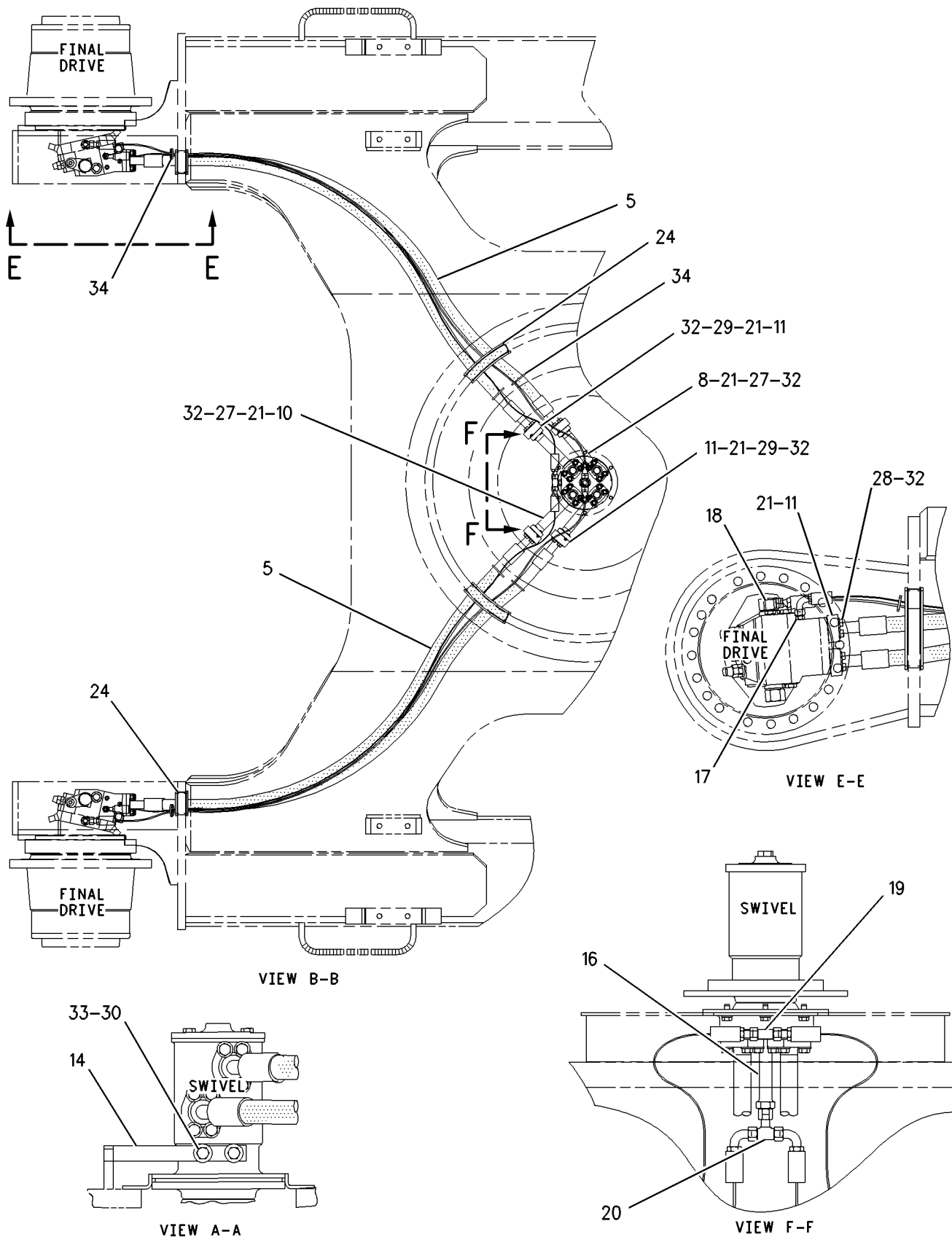
GRAPHIC #1

g00793781

HYDRAULIC SYSTEM

187-7161 LINES GP-TRAVEL MOTOR (contd.)

101515852



GRAPHIC #2

g00793782

HYDRAULIC SYSTEM

177-2458 MOTOR & MTG GP-SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

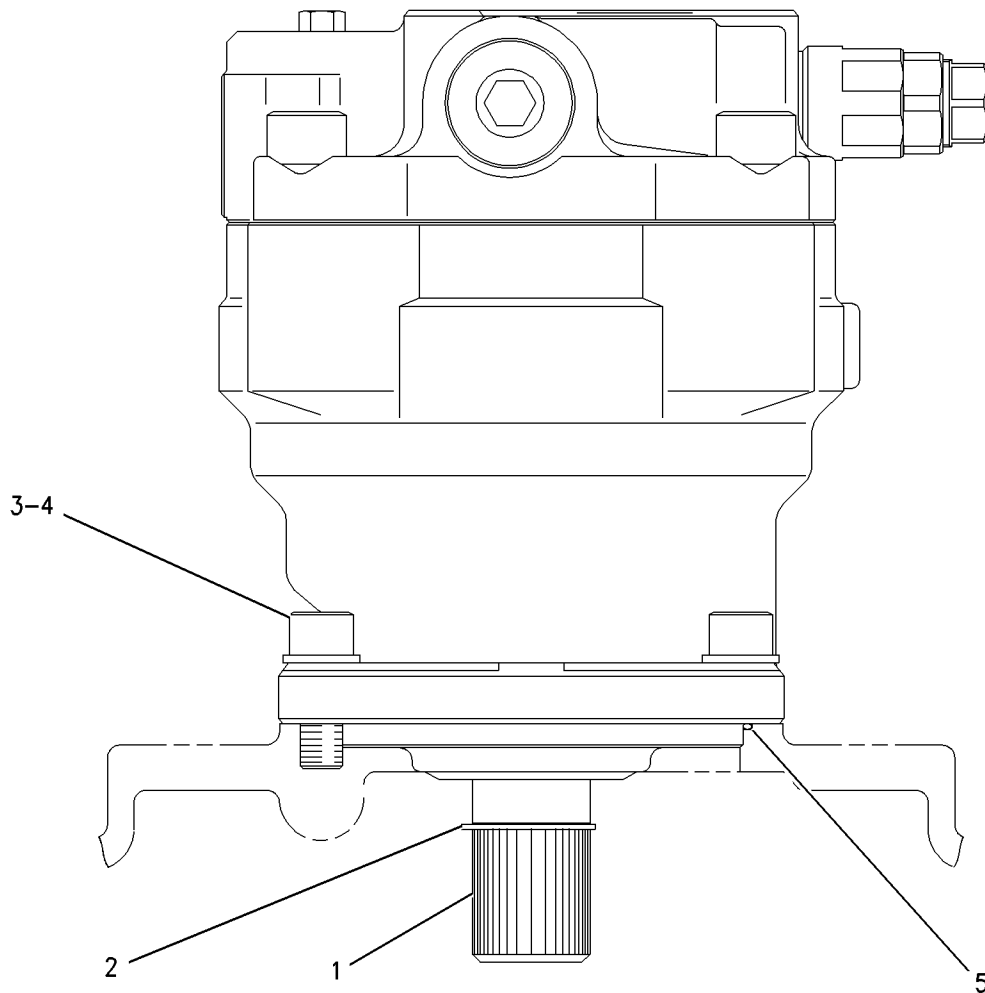
PART OF 191-2692 DRIVE GP-SWING

SMCS-5058

i01469097

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	177-2459	1	MOTOR GP-SWING						479
	2	1	6V-5204	1	RING-RETAINING						
	3	1	9X-8257	4	WASHER (17.5X30X3.5MM THK)						
M	4	1	8T-4944	4	BOLT-SOCKET HEAD (M16X2X40MM)						
	5	1	8T-6404	1	SEAL-O-RING						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00716838

HYDRAULIC SYSTEM

134-7132 MOTOR & MTG GP-TRAVEL

S/N: BPH1-UP

PART OF 200-4977 FINAL DRIVE GP

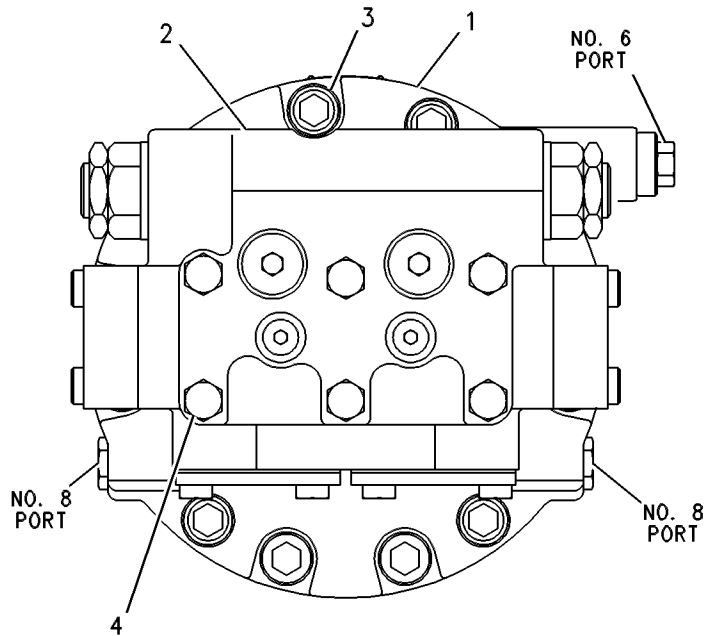
SMCS-4351

i00905983

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	134-7133	1	MOTOR GP-TRAVEL	482
Y	2	1	137-3718	1	VALVE GP-TRAVEL COUNTERBALANCE	588
M	3	1	095-0707	3	BOLT (M16X2X120MM)	
M	4	1	8T-4176	6	BOLT (M12X1.75X90MM)	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00258387

HYDRAULIC SYSTEM

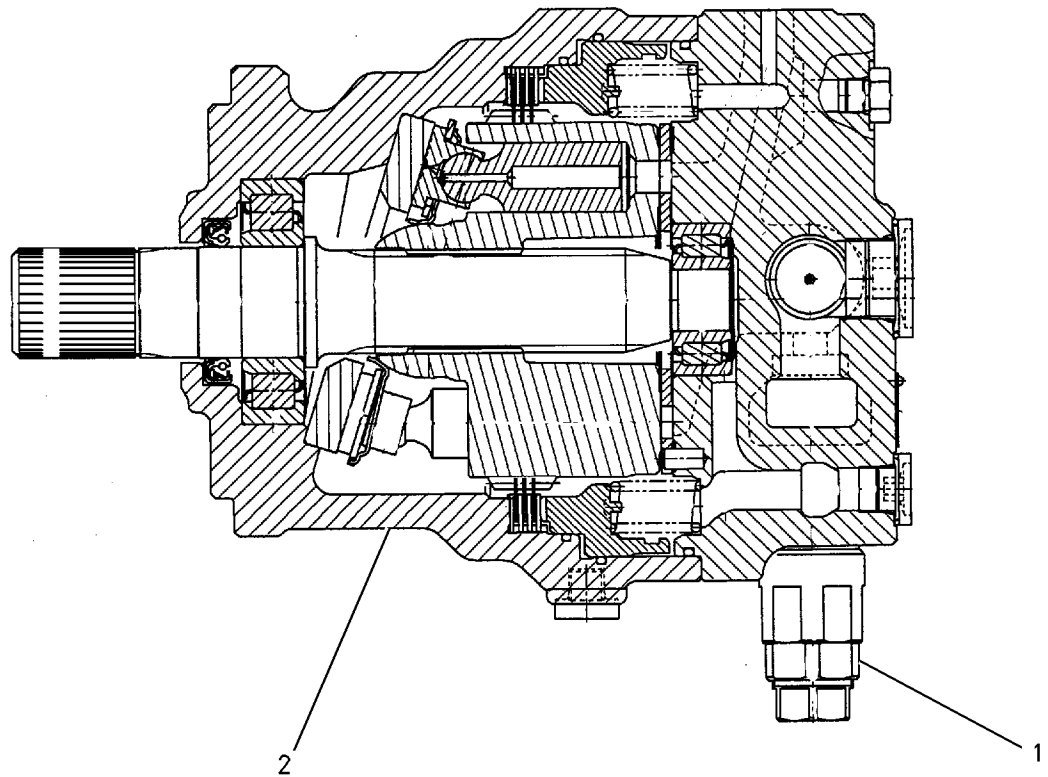
177-2459 MOTOR GP - SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 177-2458 MOTOR & MTG GP-SWING

SMCS-5058

i01469100

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	188-4174	2	VALVE GP-RELIEF						576
Y	2	1	188-4175	1	MOTOR GP-SWING						480
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00745087

HYDRAULIC SYSTEM

188-4175 MOTOR GP-SWING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 177-2459 MOTOR GP-SWING

SMCS-5058

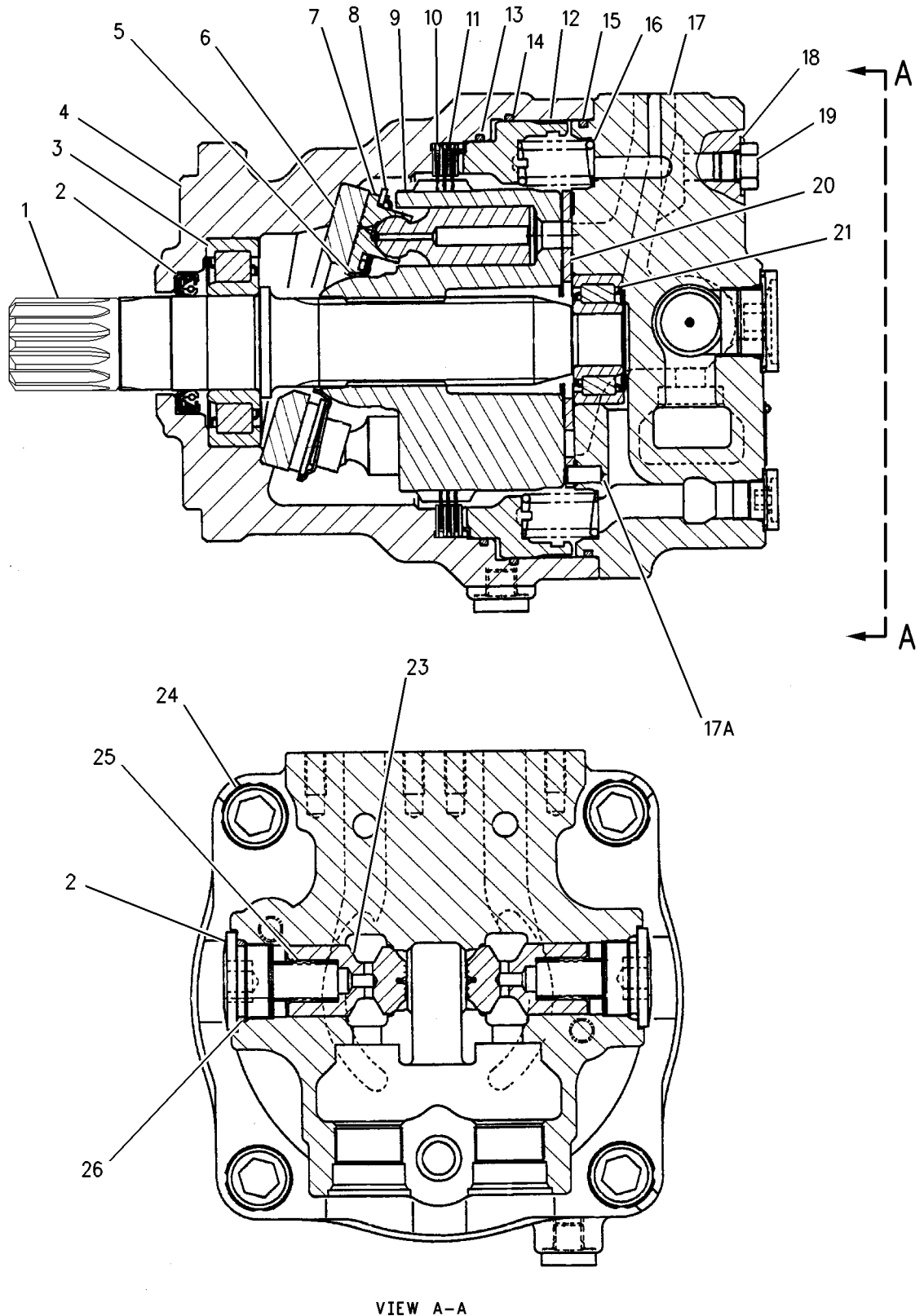
i01422788

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	188-4163	1	SHAFT						
J	2	1	096-1533	1	SEAL-LIP						
	3	1	188-4170	1	BEARING						
	4	1	188-4169	1	BODY						
	5	1	188-4165	1	PLATE						
	6	1	188-4167	1	PLATE						
	7	1	188-4161	1	PISTON AS						
	8	1	188-4166	1	PLATE						
	9	1	188-4164	1	BARREL						
	10	1	188-4172	3	PLATE-FRICTION						
	11	1	188-4173	4	PLATE-SEPARATOR						
	12	1	7Y-4290	1	PISTON-BRAKE						
J	13	1	5J-2383	1	SEAL-O-RING (190.09MM ID)						
J	14	1	7Y-4294	1	SEAL-O-RING (209.14MM ID)						
J	15	1	4I-5849	1	SEAL-O-RING (199.86MM ID)						
	16	1	123-2139	20	SPRING						
	17	1	188-4162	1	HEAD GP-MOTOR						
	17A	1	099-8111	2	PIN-SPRING						
J	18	1	3J-1907	2	SEAL-O-RING (11.89MM ID)						
	19	1	110-5525	2	PLUG						
	20	1	188-4168	1	PLATE-VALVE						
	21	1	188-4171	1	BEARING						
	22	1	170-9996	2	PLUG						
	23	1	170-9985	2	VALVE						
M	24	1	7Y-5221	4	BOLT-SOCKET HEAD (M20X2.5X45MM)						
	25	1	170-9986	2	SPRING						
J	26	1	095-1600	2	SEAL-O-RING (33.70MM ID)						
AVAILABLE REPAIR KIT(S) :											
J			188-4176		KIT-SEAL						
J-KIT MARKED J SERVICES PART(S) MARKED J											
M-METRIC PART											

HYDRAULIC SYSTEM

188-4175 MOTOR GP - SWING (contd.)

i01422788



GRAPHIC #1

g00746554

HYDRAULIC SYSTEM

134-7133 MOTOR GP-TRAVEL*R

S/N: BPH1-UP

PART OF 134-7132 MOTOR & MTG GP-TRAVEL

SMCS-4351

i01535123

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	087-4629	1	SHAFT-DRIVE	
	2	1	087-4743	2	STOP	
	3	1	094-1399	2	RING-RETAINING	
	4	1	7Y-4212	1	BEARING	
	5	1	087-4757	2	PISTON	
	6	1	107-6969	1	BODY	
	7	1	122-5114	1	GUIDE-BALL	
	8	1	087-4628	1	PLATE-CAM	
	9	1	147-5860	1	PISTON AS	
	10	1	134-7134	1	BARREL AS	
	11	1	107-6954	4	PLATE-FRICTION	
	12	1	107-6955	5	PLATE-SEPARATOR	
	13	1	107-6972	1	GUIDE-PISTON	
	14	1	107-6971	1	PISTON-BRAKE	
	15	1	107-6970	1	HEAD	
M	16	1	8T-4944	10	BOLT-SOCKET HEAD (M16X2X40MM)	
B	17	1	107-6976	1	SHIM (1.2MM THK)	
B		1	107-6977	1	SHIM (1.4MM THK)	
B		1	107-6978	1	SHIM (1.6MM THK)	
B		1	107-6979	1	SHIM (1.8MM THK)	
B		1	107-6980	1	SHIM (1.0MM THK)	
B		1	107-6981	1	SHIM (0.8MM THK)	
	18	1	2M-9780	1	SEAL-O-RING	
	19	1	7Y-4216	1	SPOOL	
	20	1	096-3978	1	SPRING	
	21	1	7Y-4224	2	ORIFICE	
J	22	1	095-1700	2	SEAL-O-RING	
	23	1	096-5916	2	SEAT	
	24	1	2D-6642	2	BALL	
J	25	1	095-1572	2	SEAL-O-RING	
J	26	1	096-5919	2	RING	
	27	1	096-5915	2	RETAINER	
	28	1	096-4003	1	SET-BEARING	
J	29	1	095-1585	1	SEAL-O-RING	
	30	1	137-3723	1	VALVE	
	31	1	096-1519	1	SEAT	
	32	1	095-7380	1	SPRING	
	33	1	137-3708	1	RETAINER	
	34	1	094-1875	1	DOWEL	
	35	1	107-6974	1	WASHER-SPRING	
	36	1	8T-6759	10	PLUG-PIPE	
J	37	1	095-1575	3	SEAL-O-RING	
J	38	1	096-4378	1	RING	
J	39	1	096-4377	2	SEAL-O-RING	
	40	1	8T-6759	1	PLUG-PIPE	
J	41	1	107-6986	1	SEAL-O-RING	
J	42	1	095-7383	1	SEAL-O-RING	
J	43	1	095-7386	1	RING	
J	44	1	107-6987	1	RING-BACKUP	
J	45	1	095-1685	1	SEAL-O-RING	
	46	1	118-4057	9	SPRING	
	47	1	7Y-4215	1	SPACER	
J	48	1	095-1586	2	SEAL-O-RING	
J	49	1	7Y-4217	2	RING	
J	50	1	096-4376	1	SEAL-LIP	
	51	1	123-2008	2	KEY	

HYDRAULIC SYSTEM

134-7133 MOTOR GP-TRAVEL (contd.)

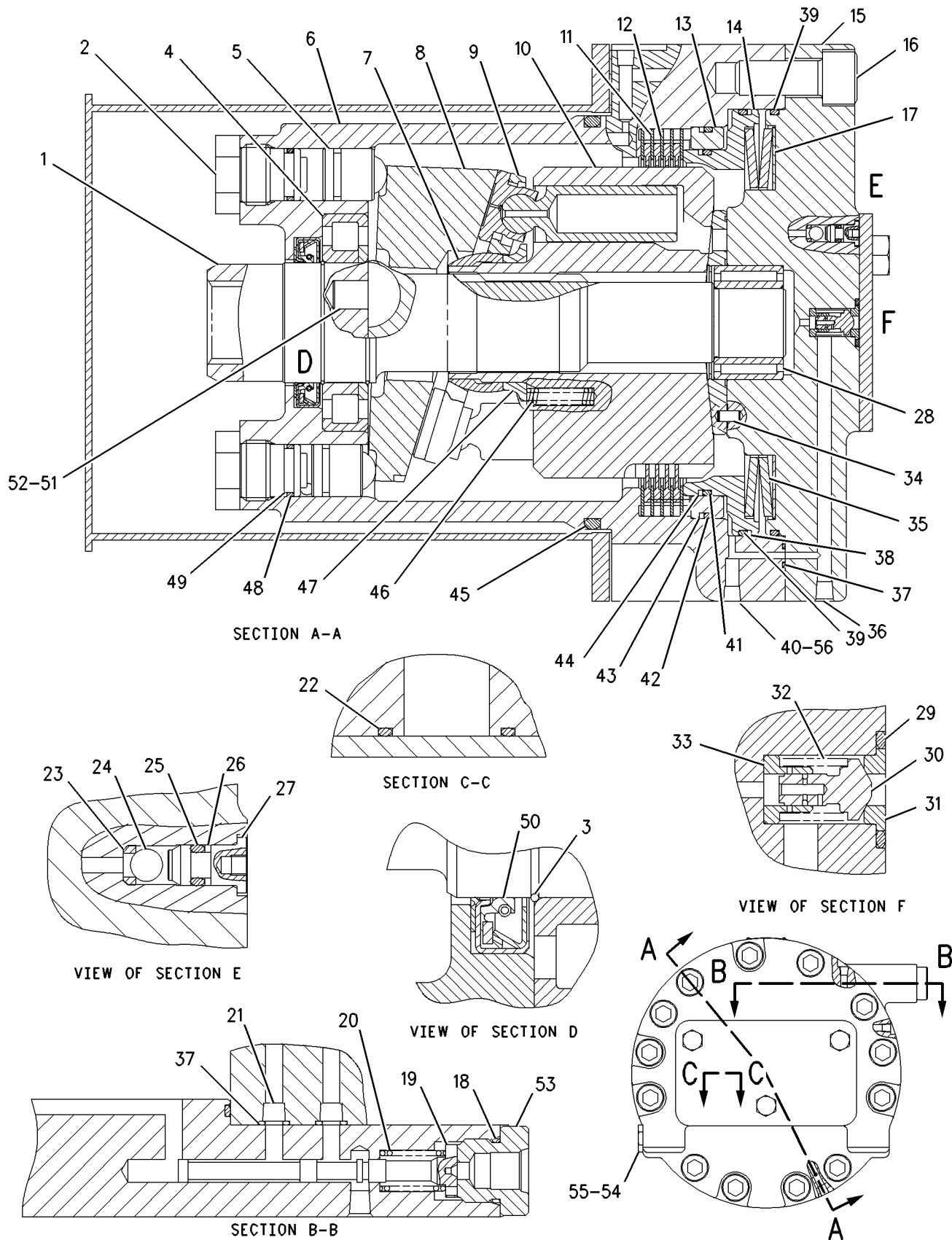
i01535123

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	52	1	121-1558	2	PIN						
	53	1	087-4786	1	ADAPTER						
	54	1	3K-0360	1	SEAL-O-RING						
	55	1	9S-4185	1	PLUG-O-RING						
	56	1	094-1882	11	PLUG						
AVAILABLE REPAIR KIT(S) :											
J			107-6988	1	KIT-SEAL						
B-USE AS REQUIRED											
J-KIT(S) MARKED J INCLUDES PART(S) MARKED J											
M-METRIC PART											

HYDRAULIC SYSTEM

134-7133 MOTOR GP-TRAVEL (contd.)

101535123



GRAPHIC #1

g00797691

MEMORANDA

HYDRAULIC SYSTEM

187-4127 MOTOR GP - TRAVEL

S/N: CAM1-UP; CBY1-UP

PART OF 191-2535 FINAL DRIVE GP

SMCS-4351

i01545149

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	190-8121	1	ROTATING GP-MOTOR	494
	2	1	192-2891	1	HOUSING	
M	3	1	125-1379	1	SETSCREW-SOCKET	
	4	1	6E-3283	2	LOCKNUT	
	5	1	6F-4718	1	SEAL-O-RING	
Y	6	1	192-2892	1	HEAD GP-MOTOR	342
	7	1	9X-7680	1	SEAL-O-RING	
M	8	1	123-4954	1	SETSCREW (M12X1.75 THD)	
	9	1	124-9913	1	SEAL-SHAFT	
	10	1	124-9914	1	SHIM (3MM THK)	
	11	1	2W-1145	1	RING-RETAINING	
	12	1	9S-8005	2	PLUG	
	13	1	3K-0360	2	SEAL-O-RING	
	14	1	197-7471	1	SEAL-O-RING	

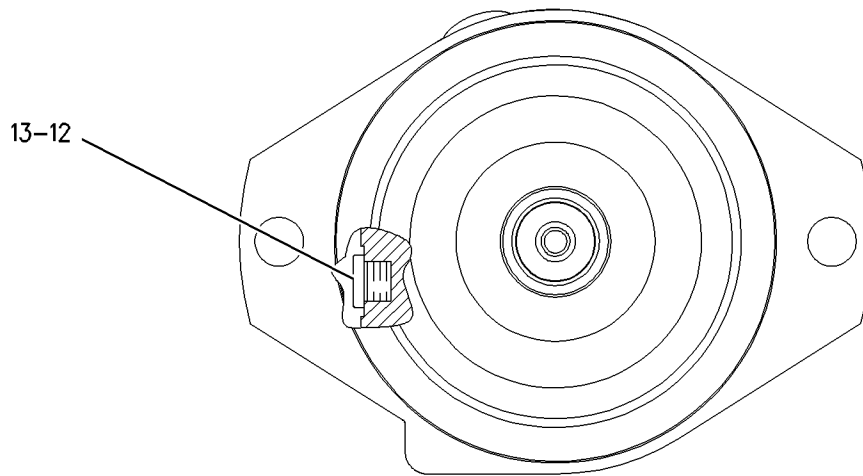
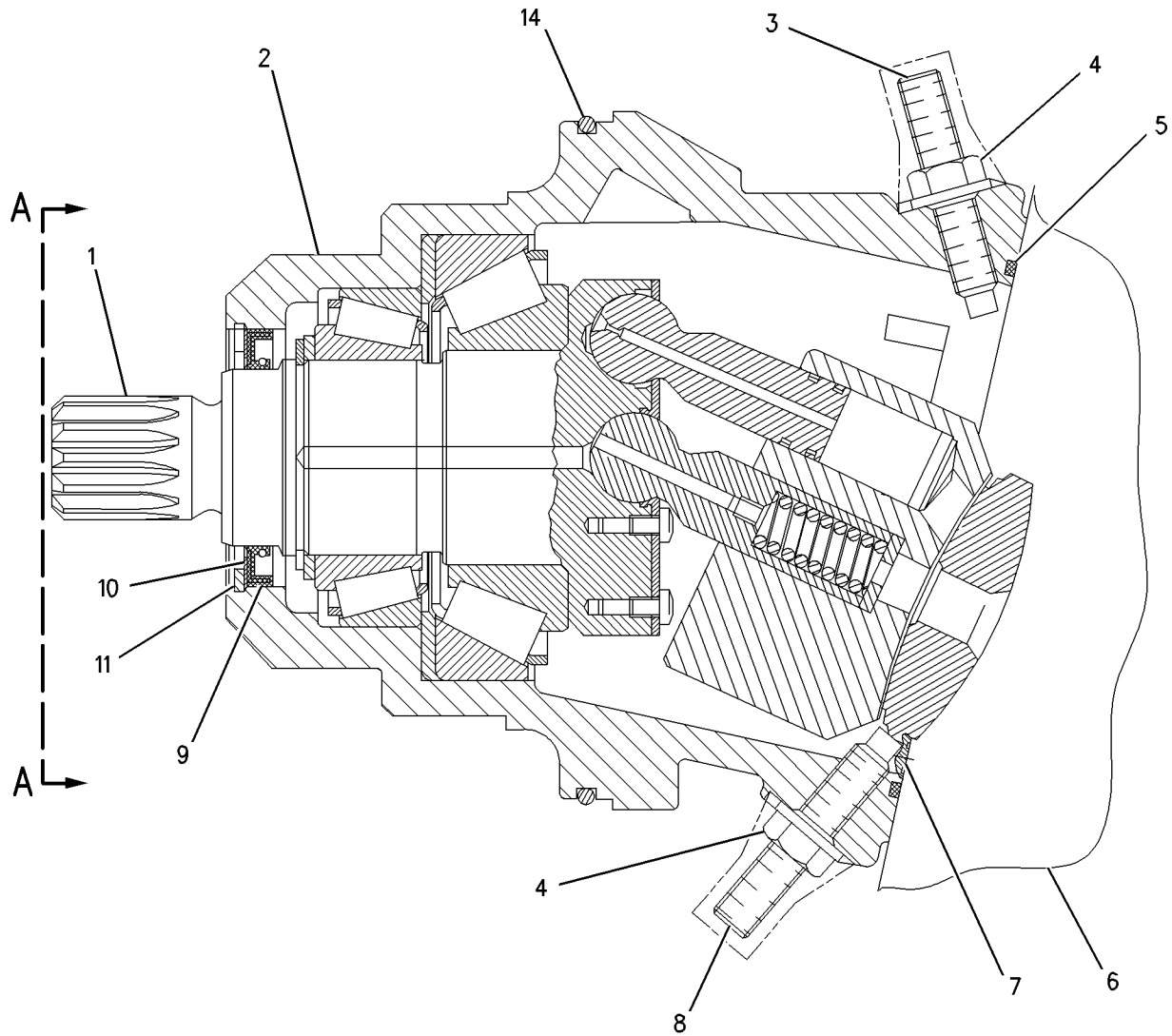
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

187-4127 MOTOR GP-TRAVEL (contd.)

i01545149



VIEW A-A

GRAPHIC #1

g00802815

HYDRAULIC SYSTEM

142-7668 MOUNTING GP-MAIN CONTROL VALVE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

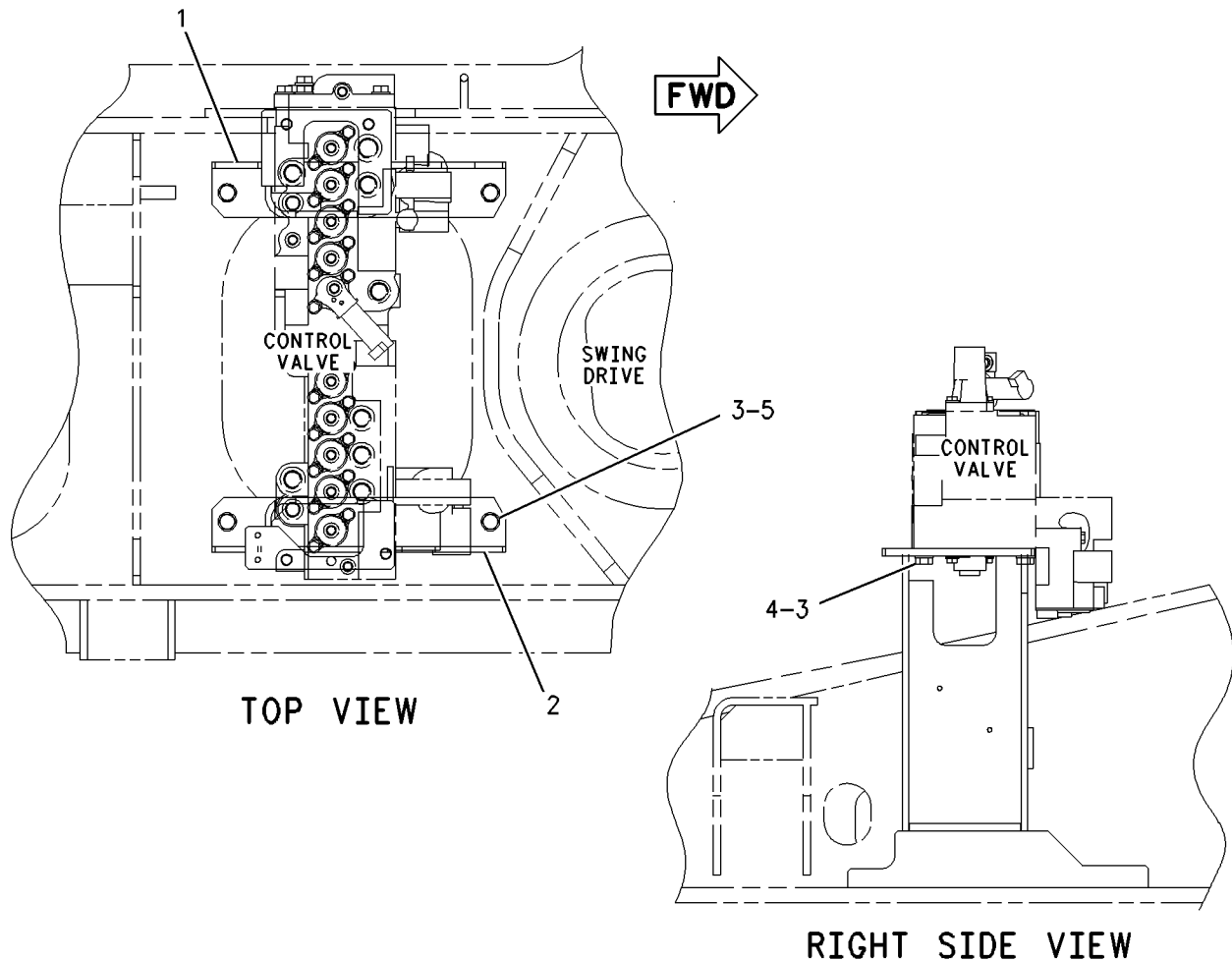
PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

SMCS-5051

i01519668

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	176-4810	1	SUPPORT AS						
	2	1	176-4811	1	SUPPORT AS						
M	3	1	100-3866	8	BOLT-SELF LOCKING (M16X2X40MM)						
	4	1	9X-8257	4	WASHER (17.5X30X3.5MM THK)						
	5	1	196-0711	4	WASHER						

M-METRIC PART



GRAPHIC #1

g00676425

HYDRAULIC SYSTEM

171-9103 PUMP & MTG GP-MAIN HYDRAULIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

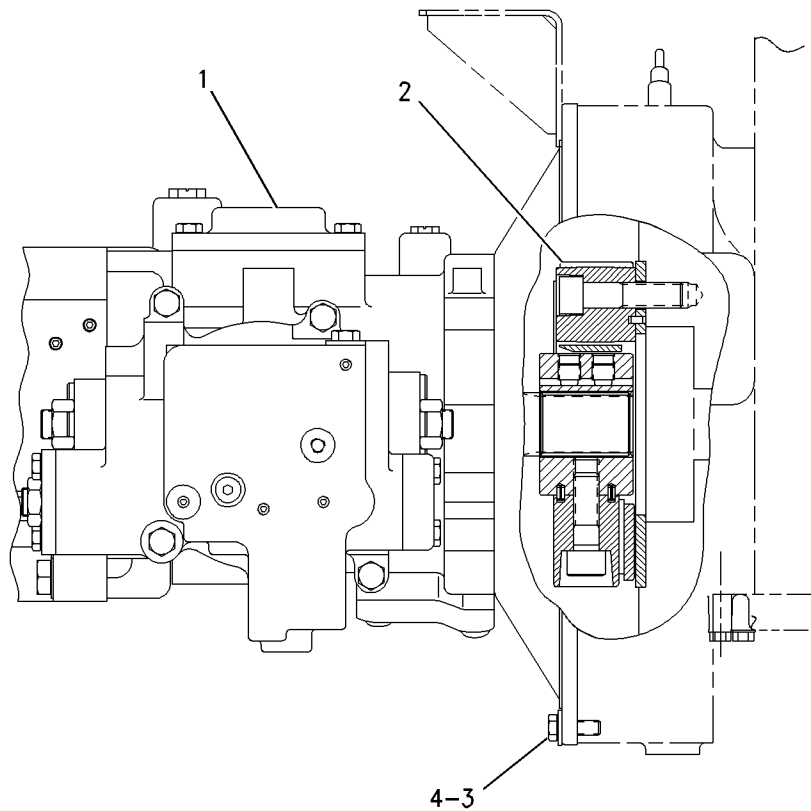
SMCS-5070

i01547106

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	200-3369	1	PUMP GP-PISTON						490
Y	2	1	171-9104	1	COUPLING GP-PUMP						290
	3	1	7X-7729	10	WASHER (11X25X3MM THK)						
M	4	1	8T-4195	10	BOLT (M10X1.5X30MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW

GRAPHIC #1

g00792590

HYDRAULIC SYSTEM

200-3369 PUMP GP-PISTON

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 171-9103 PUMP & MTG GP-MAIN HYDRAULIC

SMCS-5070

i01520649

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	177-2568	1	HEAD GP-PUMP (DRIVE)	344
	2	1	177-2470	1	COVER	
M	3	1	7X-2557	1	BOLT (M16X2X140MM)	
	4	1	177-2471	1	COVER	
Y	6	1	177-2569	1	HEAD GP-PUMP (IDLE)	348
M	7	1	8T-4176	2	BOLT (M12X1.75X90MM)	
M	8	1	8T-4140	4	BOLT (M16X2X60MM)	
	9	1, 2	094-1882	16	PLUG	
	10	1	200-3333	1	BLOCK-PORT	
	11	1	129-7979	4	DOWEL	
	12	1	9S-4185	3	PLUG-O-RING	
	13	1	3K-0360	3	SEAL-O-RING	
M	14	1, 2	8T-4136	18	BOLT (M10X1.5X25MM)	
	15	1	173-3371	1	BODY	
	16	1	150-5782	2	COVER	
M	17	1	8T-4139	10	BOLT (M12X1.75X30MM)	
	18	1	129-7863	1	COVER	
	19	1	129-7857	1	GASKET	
	20	1	179-9763	1	FLANGE	
	21	1, 2	189-9763	8	SEAL-O-RING	
	22	2	095-0946	2	RING-RETAINING	
	23	2	129-7921	2	RING-RETAINING	
	24	2	150-5785	4	DOWEL	
	25	2	188-4210	2	PISTON AS	
	26	2	193-1736	4	SEAL-O-RING	
	27	2	194-8374	1	BARREL AS	
	28	2	177-8740	1	SEAL-O-RING	
	29	2	191-5599	2	PLUG	
	30	2	160-4409	2	ORIFICE	
	31	2	200-3334	1	COVER	
	32	2	8T-3338	2	SEAL-O-RING	
	33	2	194-8325	2	SET-BEARING	
	34	2	096-4389	18	SPRING	
	35	2	7Y-4215	2	SPACER	
	36	2	173-3427	2	GUIDE-BALL	
	37	2	129-7853	2	PLATE-CREEP	
	38	2	194-8397	2	SWASHPLATE AS	
					(EACH INCLUDES)	
		2	173-3428	1	BEARING-SLEEVE	
	39	2	177-2583	4	BEARING	
	40	2	129-7927	2	BEARING	
	41	2	129-7855	1	GASKET	
	42	2	200-3325	1	SHAFT	
	43	2	7M-8485	2	SEAL-O-RING	
	44	2	8J-4645	2	PLUG-O-RING	
M	47	2	8T-4196	2	BOLT (M10X1.5X35MM)	
	48	2	4I-1022	2	ORIFICE	
	49	2	094-1875	6	DOWEL	
M	50	2	8T-4137	2	BOLT (M10X1.5X20MM)	
	51	2	126-2016	1	PUMP GP-GEAR	
	52	2	194-8371	1	BARREL AS	
M	53	2	8T-4192	10	BOLT (M12X1.75X25MM)	
	54	2	129-7854	1	CASE	
	55	2	200-3263	1	SHAFT-DRIVE	
	56	2	129-7925	1	SEAL-LIP TYPE	
	57	2	096-3983	1	RING-RETAINING	

HYDRAULIC SYSTEM

200-3369 PUMP GP-PISTON (contd.)

i01520649

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	58	2	096-3944	1	SEAL-O-RING	
M	61	1	8T-4175	2	BOLT (M16X2.0X90MM)	

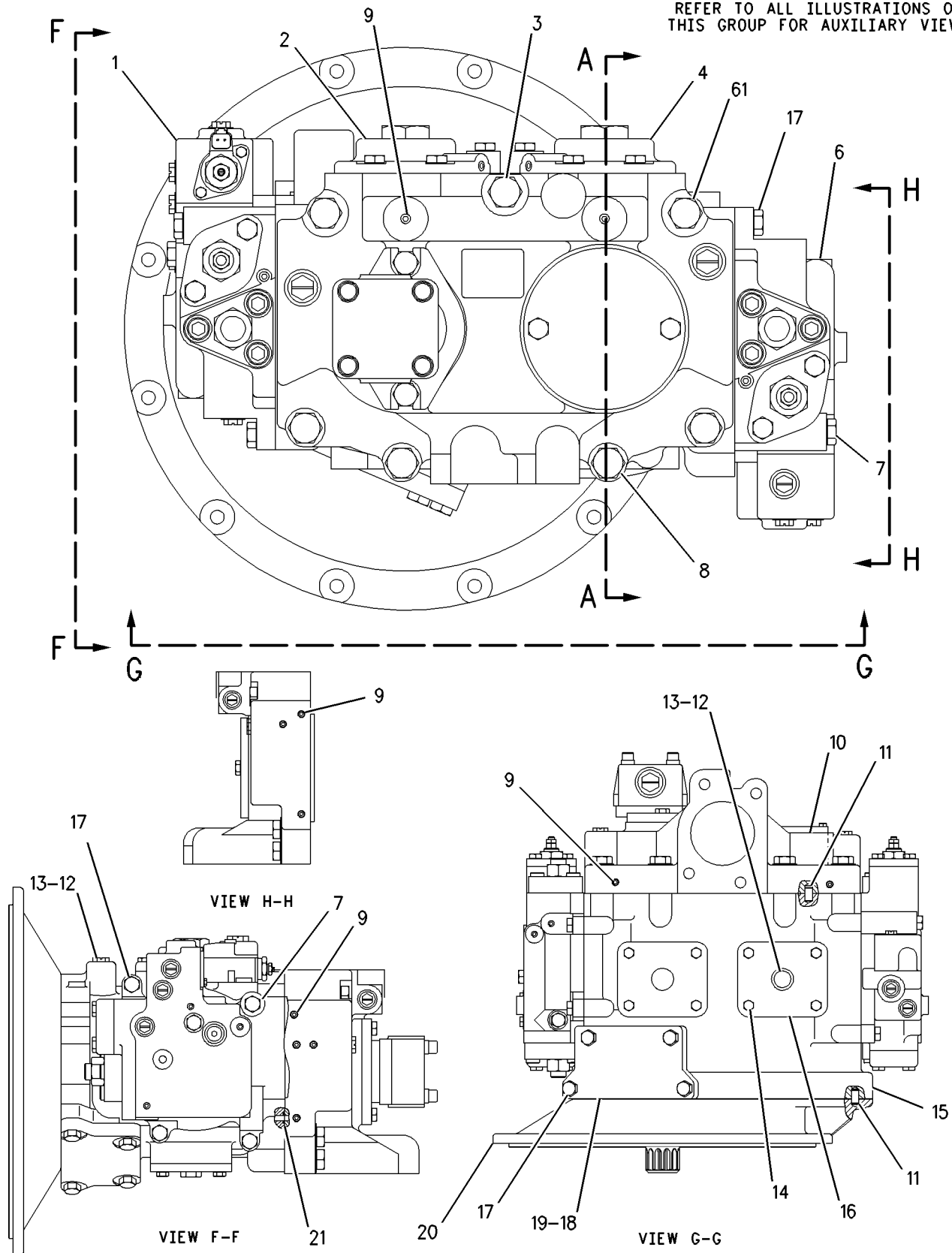
M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

200-3369 PUMP GP-PISTON (contd.)

i01520649

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



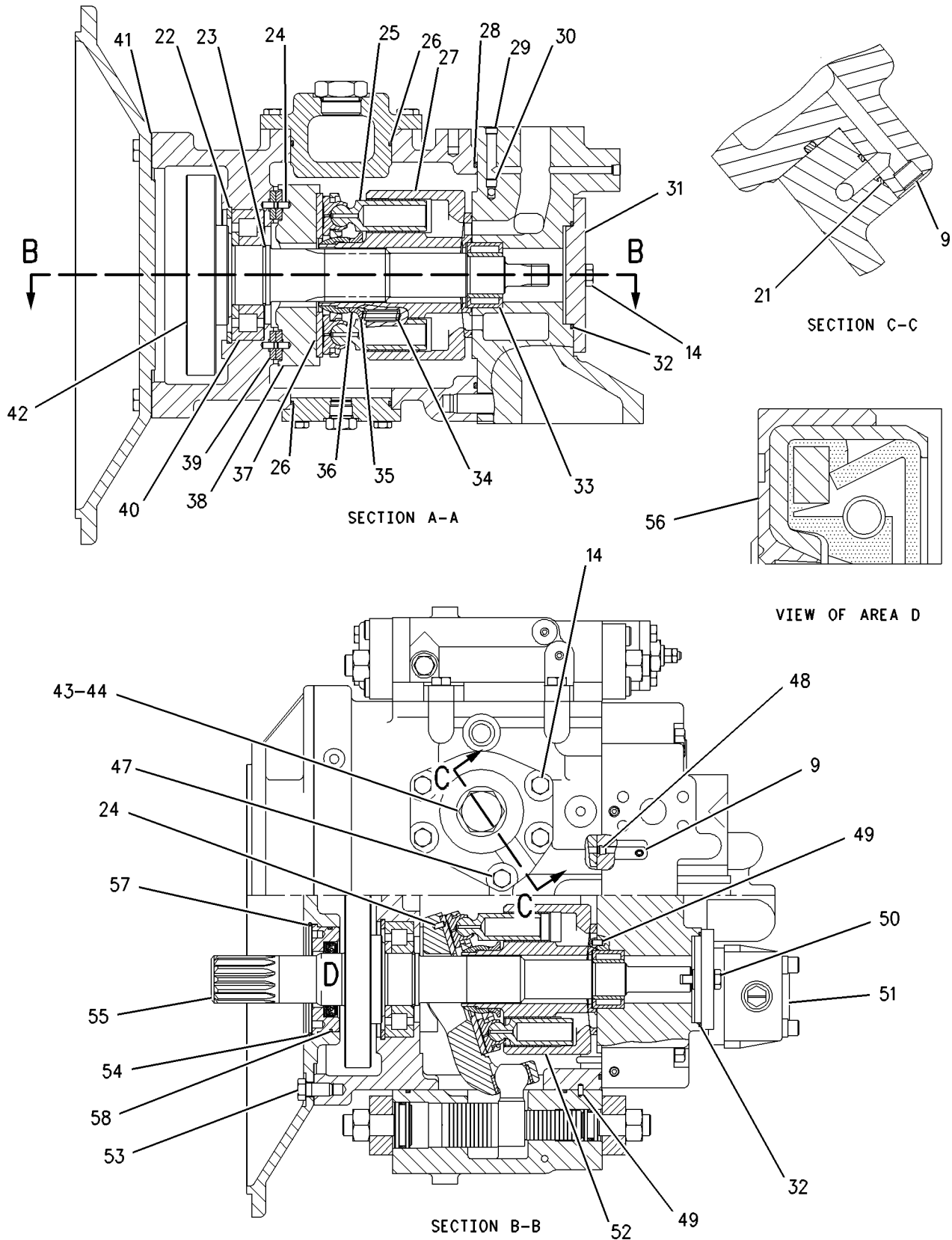
GRAPHIC #1

g00792862

HYDRAULIC SYSTEM

200-3369 PUMP GP-PISTON (contd.)

i01520649



GRAPHIC #2

g00782198

HYDRAULIC SYSTEM

190-8121 ROTATING GP-MOTOR

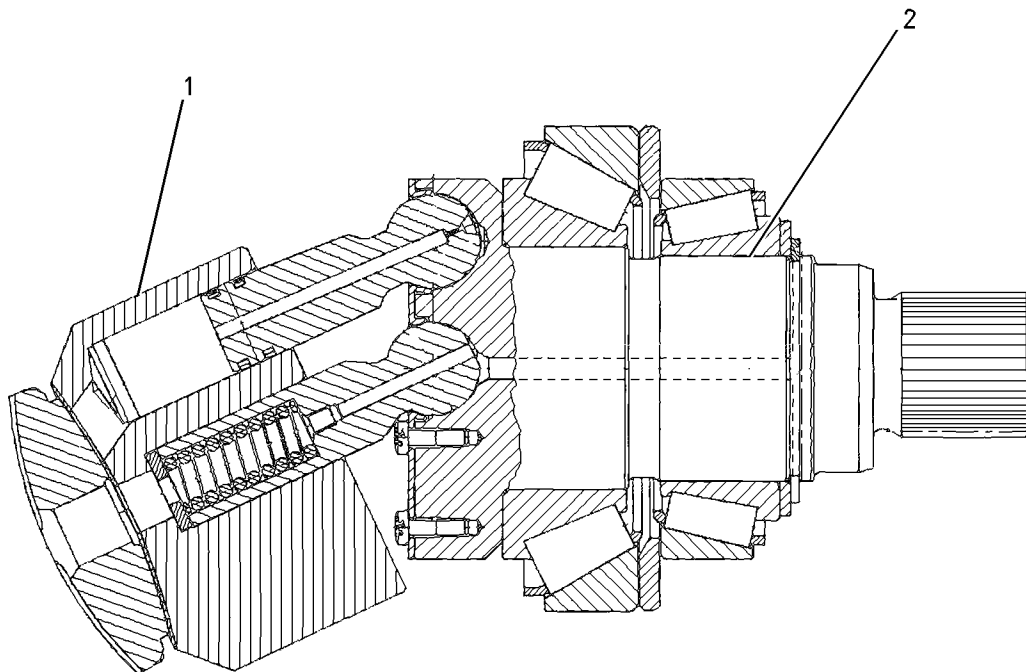
S/N: CAM1-UP; CBY1-UP

PART OF 187-4127 MOTOR GP-TRAVEL

SMCS-5058

i01502576

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	191-0883	1	ROTATING GP-MOTOR						495
Y	2	1	191-0886	1	SHAFT GP-HYDRAULIC MOTOR						497
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

g00699932

HYDRAULIC SYSTEM

191-0883 ROTATING GP-MOTOR

S/N: CAM1-UP; CBY1-UP

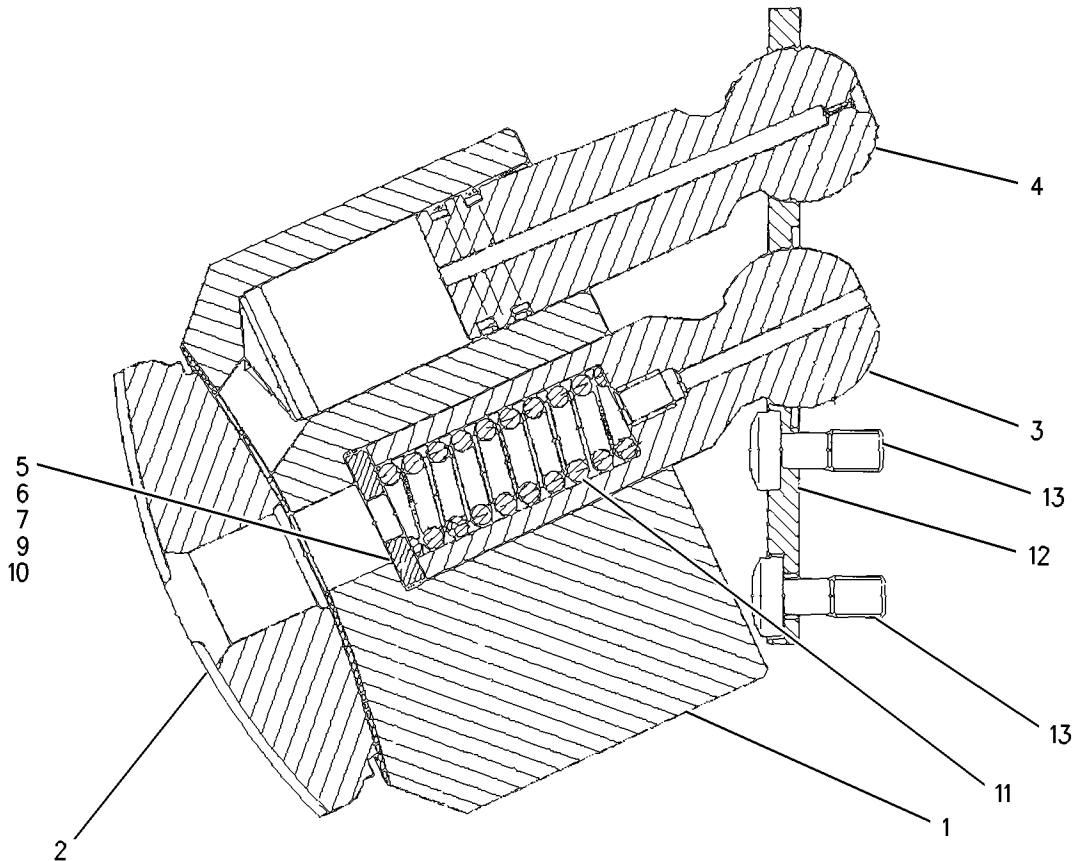
PART OF 190-8121 ROTATING GP-MOTOR

SMCS-5058

i01502573

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9T-3370	1	BARREL-CYLINDER						
	2	1	124-9929	1	PLATE-CONTROL						
	3	1	124-9930	1	PIN-CENTER						
	4	1	165-6976	7	PISTON AS						
		1	9T-3745	2	RING						
B	5	1	124-9932	1	SHIM (3.50MM THK)						
B	6	1	124-9933	1	SHIM (3.60MM THK)						
B	7	1	124-9934	1	SHIM (3.70MM THK)						
B	8	1	124-9935	1	SHIM (3.80MM THK)						
B	9	1	124-9936	1	SHIM (3.90MM THK)						
B	10	1	124-9937	1	SHIM (4.00MM THK)						
	11	1	124-9938	1	SPRING						
	12	1	167-6701	1	PLATE-RETAINING						
	13	1	113-4419	14	SCREW (TORX)						

B-USE AS REQUIRED



GRAPHIC #1

g00702162

HYDRAULIC SYSTEM

158-8988 SCREEN GP

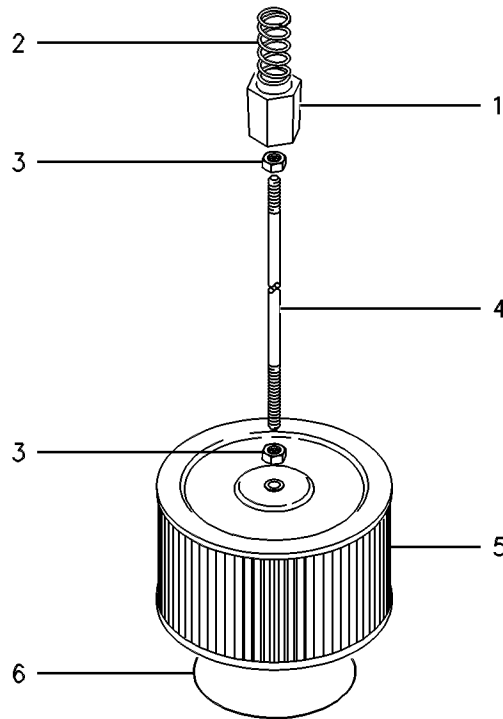
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4617 TANK & FILTER GP-HYDRAULIC

SMCS-5068

i01408300

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	095-6641	1	GUIDE						
	2	1	095-6639	1	SPRING						
M	3	1	8T-4133	2	NUT (M10X1.5 THD)						
	4	1	129-7784	1	ROD						
	5	1	158-9107	1	SCREEN AS						
	6	1	5H-5672	1	SEAL-O-RING (133.66MM ID)						
M-METRIC PART											



GRAPHIC #1

g00267878

HYDRAULIC SYSTEM

191-0886 SHAFT GP-HYDRAULIC MOTOR

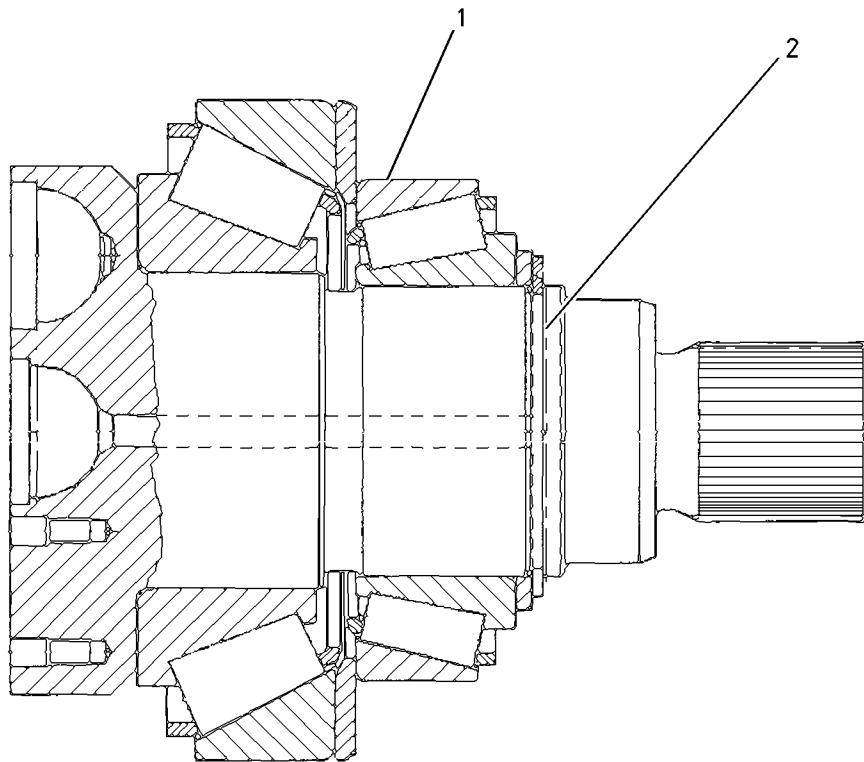
S/N: CAM1-UP; CBY1-UP

PART OF 190-8121 ROTATING GP-MOTOR

SMCS-5058

i01502569

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	191-1955	1	KIT-BEARING						
	2	1	095-0929	1	RING-RETAINING						



GRAPHIC #1

g00699834

HYDRAULIC SYSTEM

159-7841 SWIVEL GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

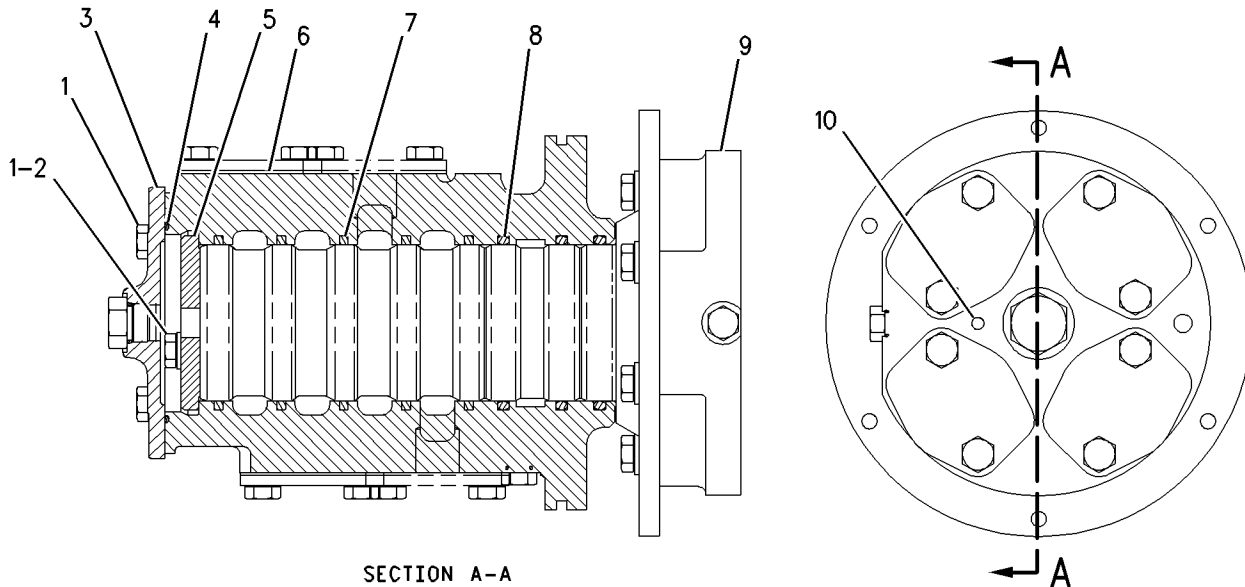
PART OF 176-4620, 187-7161 LINES GP-TRAVEL MOTOR

SMCS-5060

i01520813

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4136	6	BOLT (M10X1.5X25MM)						
	2	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
	3	1	7Y-4817	1	COVER						
	4	1	095-1716	1	SEAL-O-RING						
	5	1	7I-7131	1	RETAINER						
	6	1	7Y-4801	1	HOUSING						
	7	1	159-7782	5	SEAL						
	8	1	095-1625	3	SEAL-O-RING						
	9	1	4I-6262	1	ROTOR						
	10	1	8T-6759	1	PLUG-PIPE						

M-METRIC PART



GRAPHIC #1

g00793173

MEMORANDA

HYDRAULIC SYSTEM

176-4617 TANK & FILTER GP-HYDRAULIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4616 TANK & MTG GP-HYDRAULIC

SMCS-5056, 5068

i01549089

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	126-2079	1	HOSE-WATER	
Y	2	1	158-8988	1	SCREEN GP	496
	3	1	165-3254	1	COVER AS	
	4	1	165-3256	1	PIPE AS	
	5	1	6J-2680	1	SEAL-O-RING	
	6	2	199-1963	1	SUPPORT	
	7	1	094-3245	1	GAUGE AS (HYD OIL LEVEL)	
	7A	1	7Y-4754	2	BLOCK	
M	7B	1	094-3247	2	BOLT (M10X1.5X36MM)	
	7C	1	095-1514	4	SEAL-O-RING	
	7D	1	095-1517	4	SEAL-O-RING	
	7E	1	096-4754	1	PIPE	
	8	1	095-1608	1	SEAL-O-RING	
	9	1	095-1735	1	SEAL-O-RING	
	10	1	105-2652	1	PLUG	
	11	2	112-0065	1	BRACKET	
Y	12	2	126-2075	1	FILTER GP-OIL	334
	13	2	188-2084	1	FILTER GP-HYDRAULIC	
		2	103-8236	1	SEAL-O-RING	
		2	126-1813	1	FILTER-OIL	
		2	177-2576	1	VALVE GP-RELIEF	
		2	095-1584	1	SEAL-O-RING	
		2	095-1590	1	SEAL-O-RING	
		2	095-1596	1	SEAL-O-RING	
Y	14	2	158-9005	1	FILTER GP-OIL	336
	15	1	170-9376	1	SWITCH AS (HYDRAULIC OIL LEVEL)	
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)	
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)	
	16	1	176-4618	1	TANK GP-HYDRAULIC	
	17	1	1P-4278	1	CLAMP-HOSE	
	18	1	2B-0858	1	PLUG-PIPE	
	19	2	2M-0849	2	WASHER-HARD (13.5X25.5X5MM THK)	
	20	1	3D-2824	1	SEAL-O-RING	
	21	2	3J-1907	1	SEAL-O-RING	
	22	2	3J-7354	1	SEAL-O-RING	
	23	1	3K-0360	1	SEAL-O-RING	
	24	1	4B-7739	1	PLUG-DRAIN	
	25	1	4I-3745	1	CAP-PRESSURE VALVE	
	26	1	4I-5394	1	SENDER AS-TEMPERATURE	
M	26A	1	4I-5490	2	SCREW-MACHINE	
	26B	1	095-0826	2	LOCKWASHER	
	27	1	4J-5267	1	SEAL-O-RING	
	28	1	6C-8496	1	WASHER	
	29	1	6D-9157	1	SEAL-O-RING	
	30	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)	
	31	2	6V-0852	1	CAP-DUST	
	32	2	6V-3965	1	FITTING	
	33	2	8C-3446	1	VALVE AS-FLUID SAMPLING	
	34	2	8C-3451	1	CAP-DUST	
	35	1	8H-9819	1	ADAPTER-PLUG	
	36	1	8M-2770	2	CLIP	
M	37	1	8T-0267	2	BOLT-SOCKET HEAD (M6X1X12MM)	
	38	1,2	8T-4121	18	WASHER-HARD (11X21X2.5MM THK)	
M	39	1	8T-4133	2	NUT (M10X1.5 THD)	
M	40	1,2	8T-4136	4	BOLT (M10X1.5X25MM)	
M	41	1	8T-4137	8	BOLT (M10X1.5X20MM)	

HYDRAULIC SYSTEM

176-4617 TANK & FILTER GP-HYDRAULIC (contd.)

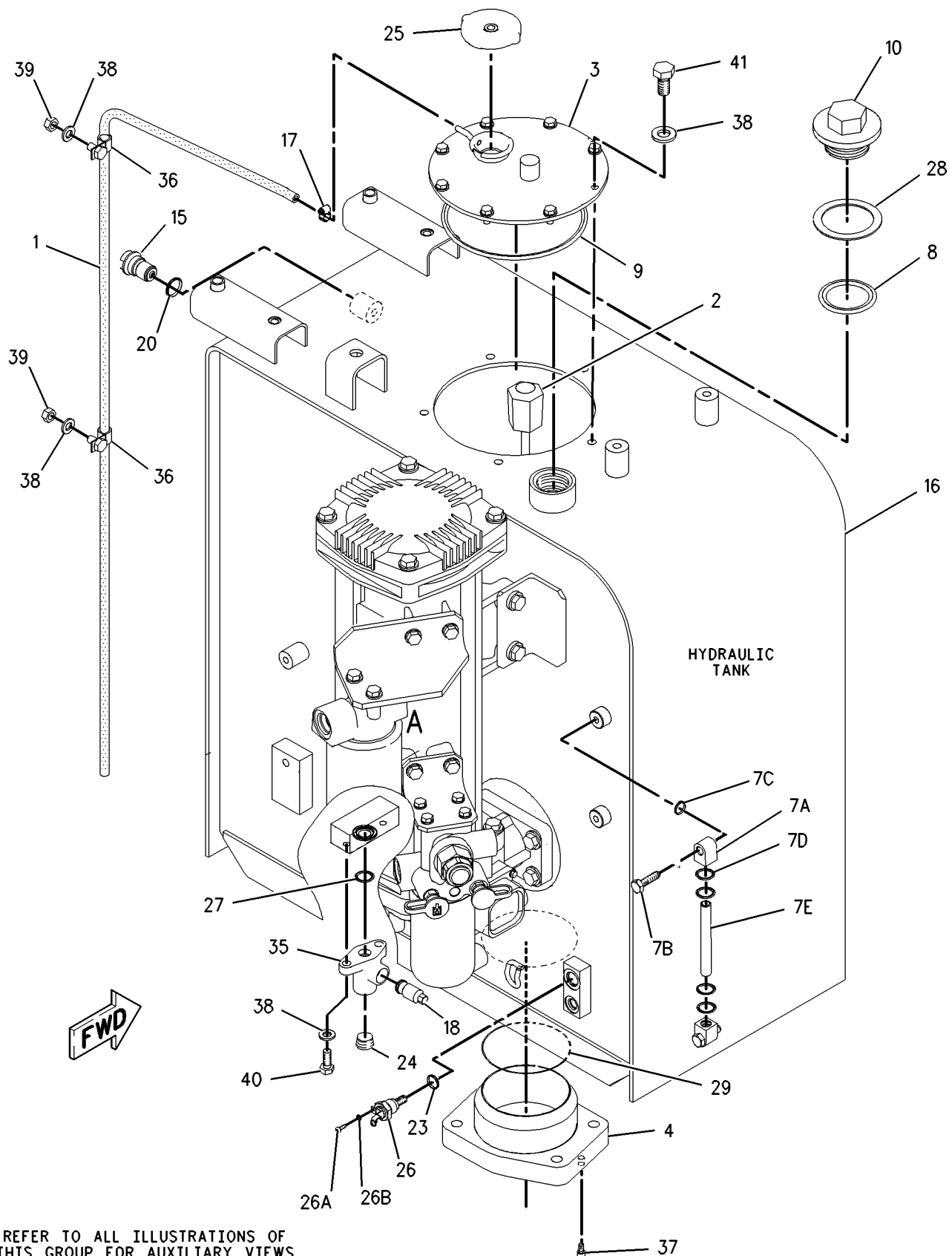
i01549089

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	42	2	8T-4183	2	BOLT (M12X1.75X40MM)						
M	43	2	8T-4195	4	BOLT (M10X1.5X30MM)						
M	44	1	8T-4956	4	BOLT (M12X1.75X35MM)						
	45	2	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	46	2	8T-4908	4	BOLT (M8X1.25X25MM)						
M-METRIC PART											
Y-SEPARATE ILLUSTRATION											

HYDRAULIC SYSTEM

176-4617 TANK & FILTER GP-HYDRAULIC (contd.)

i01549089



REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

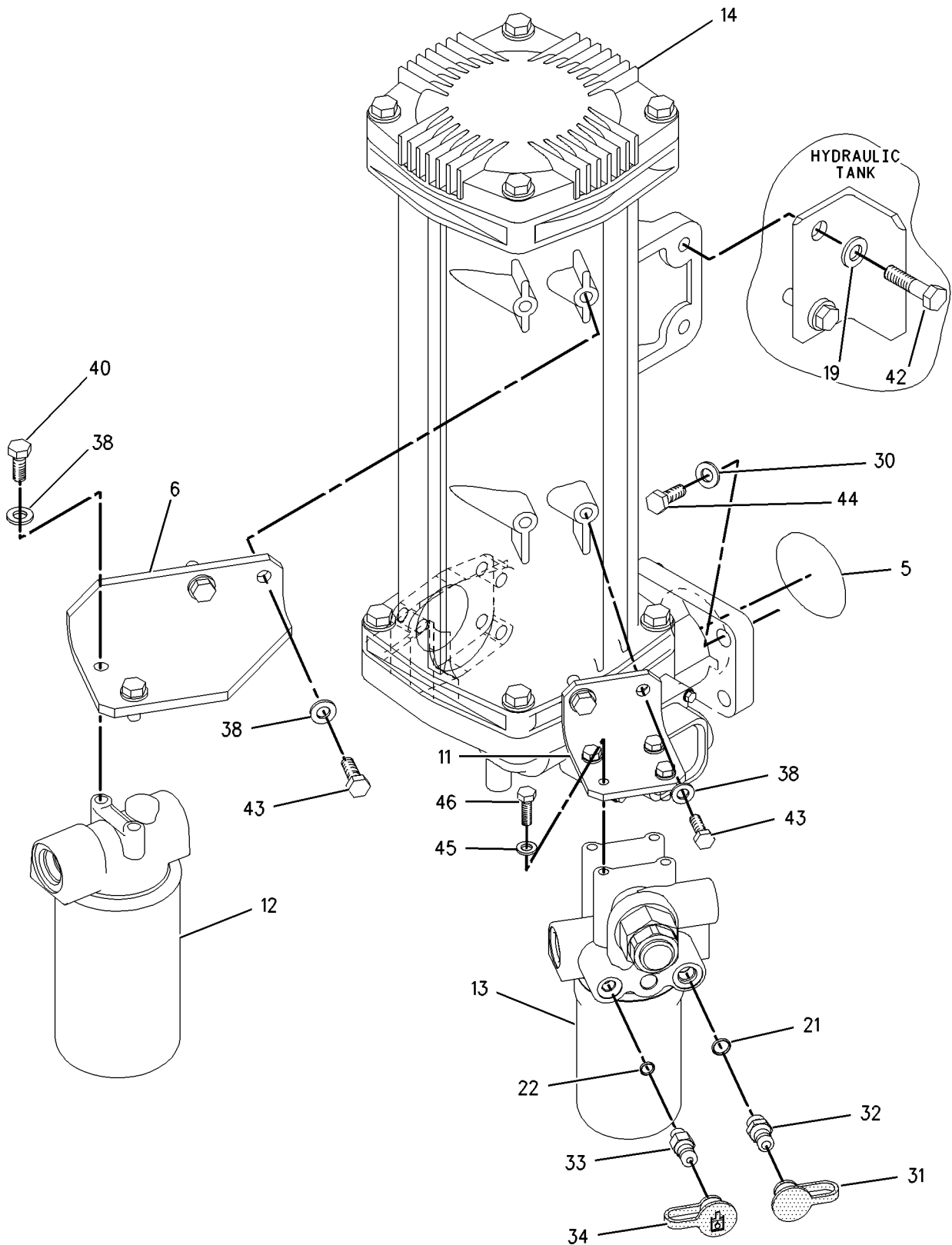
GRAPHIC #1

g00792518

HYDRAULIC SYSTEM

176-4617 TANK & FILTER GP -HYDRAULIC (contd.)

i01549089



VIEW OF AREA A

GRAPHIC #2

g00791676

HYDRAULIC SYSTEM

176-4616 TANK & MTG GP-HYDRAULIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 186-3942, 186-3943, 196-3255 HYDRAULIC AR

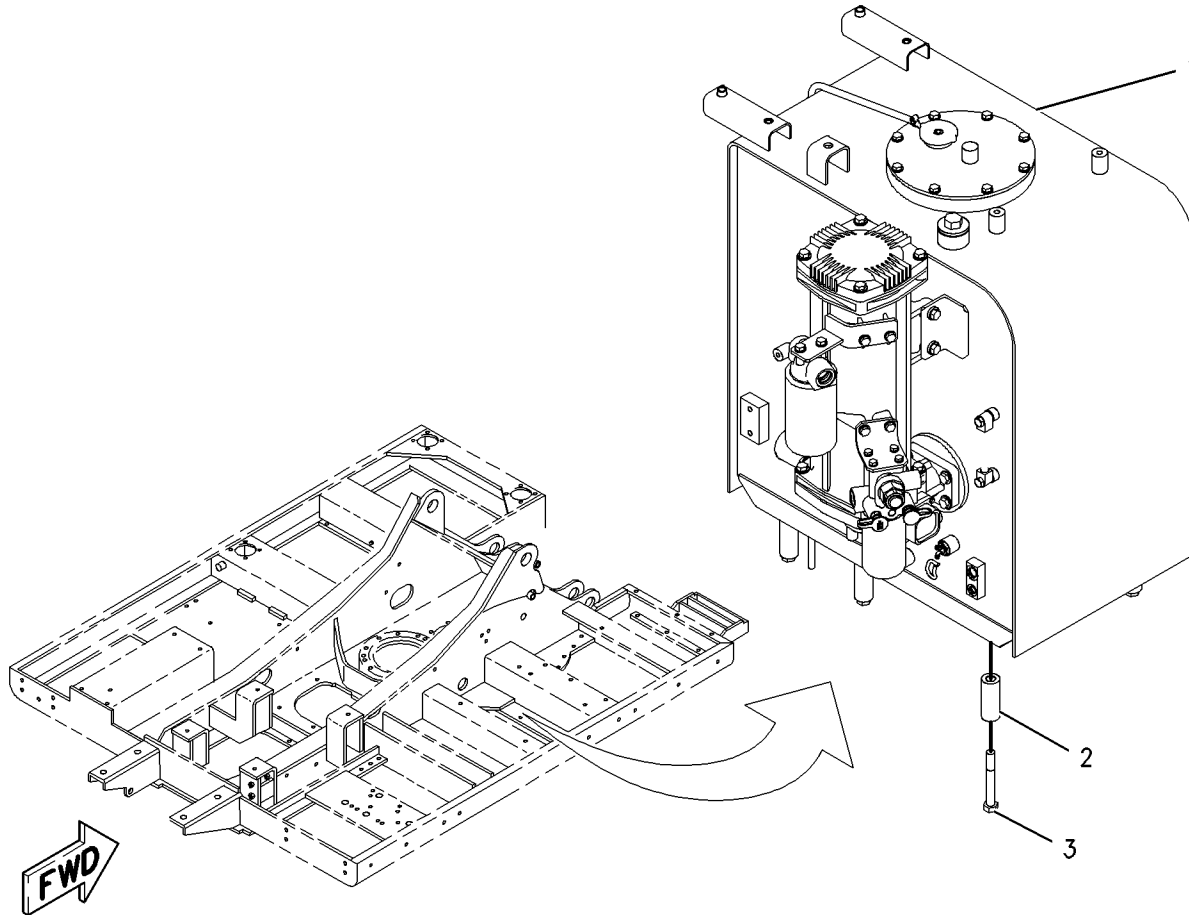
SMCS-5056

i01407471

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	176-4617	1	TANK & FILTER GP-HYDRAULIC						500
	2	1	177-5886	6	SPACER						
M	3	1	8T-4174	6	BOLT (M16X2.0X120MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00697663

HYDRAULIC SYSTEM

173-7988 VALVE & MTG GP-CONTROL

S/N: BPH1-UP; CAM1-UP

PART OF 206-9388, 206-9389 CONTROL AR-AUXILIARY
AN ATTACHMENT

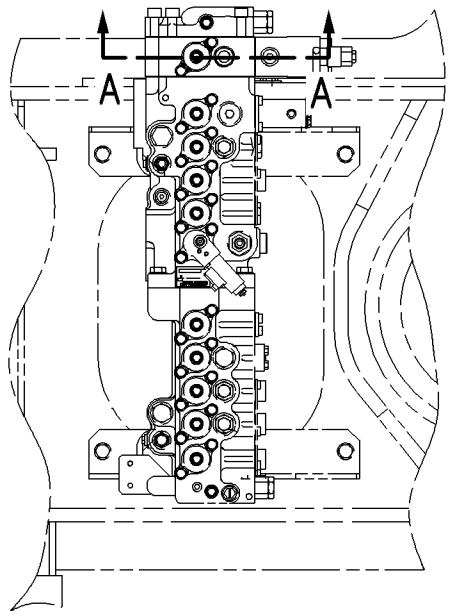
SMCS-5051

i01539762

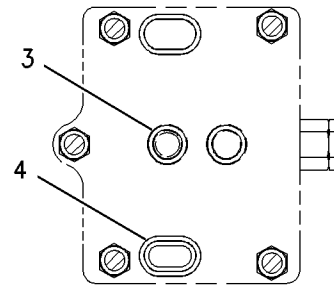
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	190-7739	1	VALVE GP-CONTROL	526
M	2	1	7I-1026	5	BOLT-SOCKET HEAD (M16X2X130MM)	
	3	1	1P-3702	2	SEAL-RECTANGULAR	
	4	1	4J-8998	2	SEAL-O-RING	

M-METRIC PART

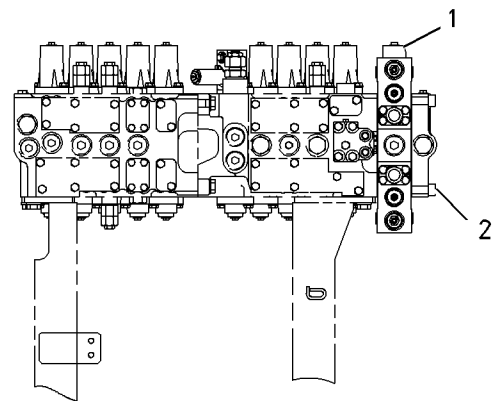
Y-SEPARATE ILLUSTRATION



TOP VIEW



SECTION A-A



FRONT VIEW

GRAPHIC #1

g00799835

HYDRAULIC SYSTEM

171-0178 VALVE AR-CHECK & RELIEF

S/N: BPH1-UP; CAM1-UP
BOOM LOWERING CONTROL
AN ATTACHMENT

SMCS-5117

i01458825

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	176-4654	1	LINES GP-BOOM CYLINDER						376
Y	176-4656	1	LINES GP-PILOT						400
Y	176-4652	1	LINES GP-RETURN						458
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

192-3284 VALVE GP - BRAKE

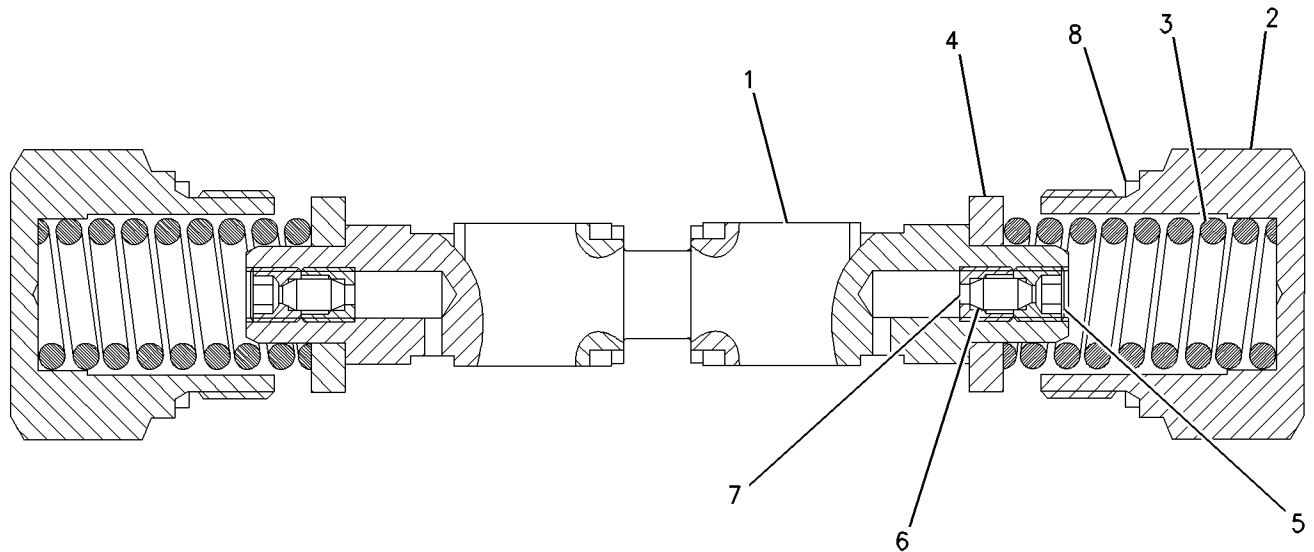
S/N: CAM1-UP; CBY1-UP

PART OF 192-2892 HEAD GP-MOTOR

SMCS-4112, 4265, 4282

i01502541

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-3285	1	PISTON						
	2	1	192-3286	2	PLUG						
	3	1	192-3289	2	SPRING						
	4	1	192-3290	2	WASHER						
	5	1	123-5799	2	SEAT						
	6	1	192-3291	2	PIN						
	7	1	123-5798	2	SEAT						
	8	1	3E-6767	2	SEAL-O-RING						



GRAPHIC #1

g00797514

HYDRAULIC SYSTEM

194-6973 VALVE GP-BRAKE

S/N: CAM1-UP; CBY1-UP

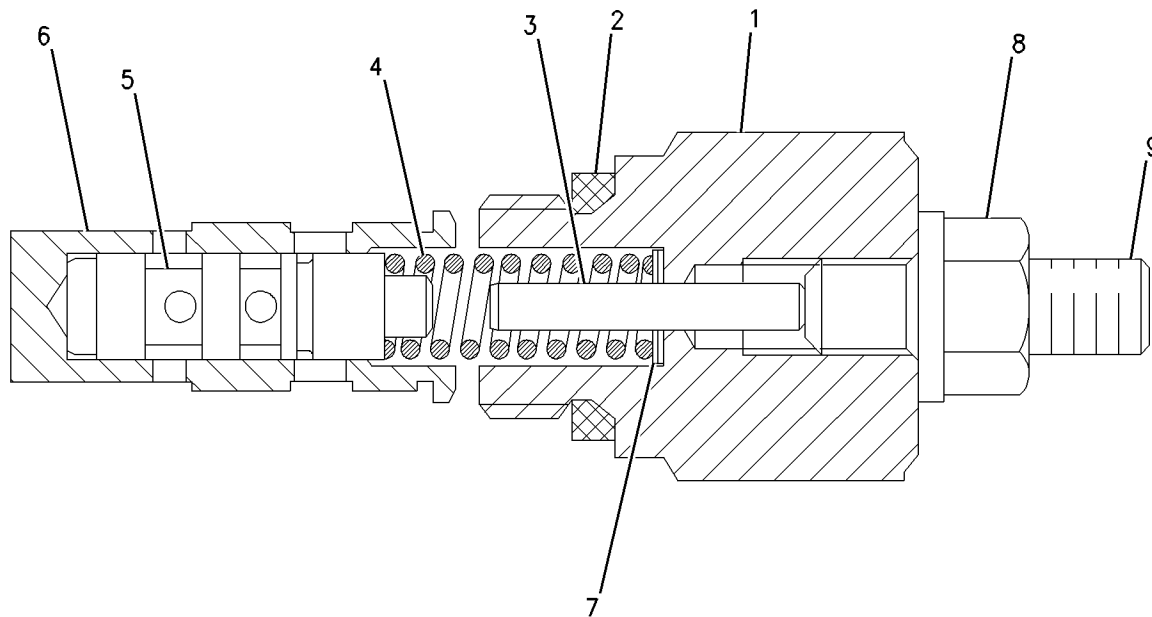
PART OF 192-2892 HEAD GP-MOTOR

SMCS-4112, 4265, 4282

i01502519

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-6974	1	PLUG						
	2	1	109-3204	1	SEAL-O-RING						
	3	1	163-7967	1	DOWEL						
	4	1	194-6979	1	SPRING						
	5	1	194-6976	1	PISTON						
	6	1	194-6977	1	BUSHING						
B	7	1	194-6980	2	SHIM						
	8	1	9T-3853	1	LOCKNUT						
M	9	1	096-3656	1	SETSCREW-SOCKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00794028

HYDRAULIC SYSTEM

129-1101 VALVE GP-CHECK

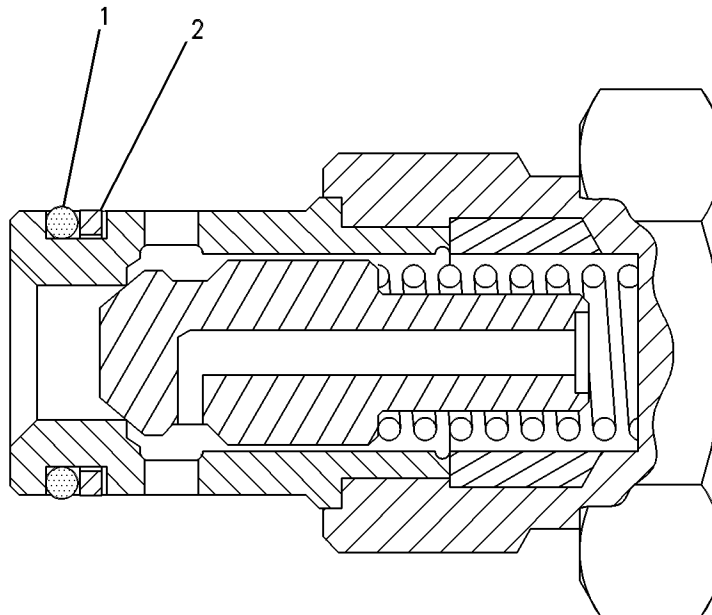
S/N: 55K8513-UP

PART OF 129-1102 BASE GP-FUEL FILTER

SMCS-5067

i00127600

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	033-6033	1	SEAL-O-RING (12.42MM ID)						
	2	1	6V-6923	1	RING-BACKUP						



GRAPHIC #1

g00109281

HYDRAULIC SYSTEM

173-4672 VALVE GP-CHECK

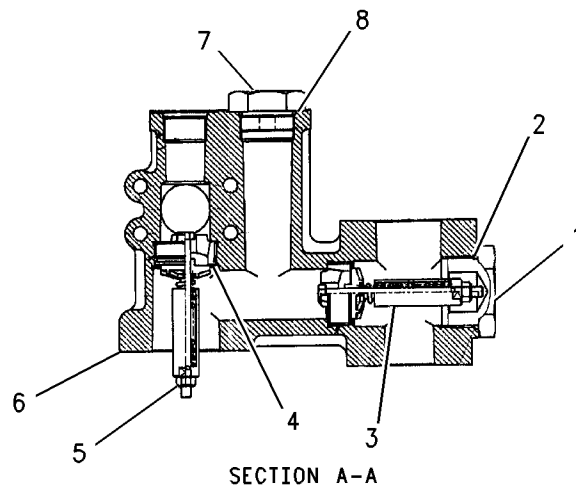
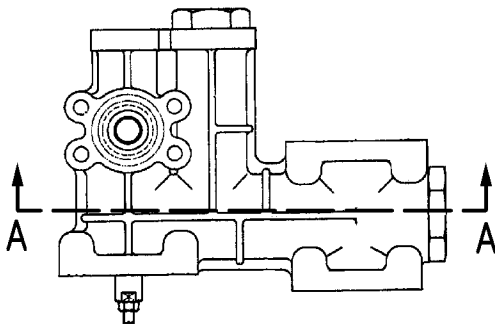
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4625 LINES GP-RETURN

SMCS-5067

i01520851

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	190-7826	1	PLUG						
	2	1	095-1547	1	SEAL-O-RING						
	3	1	177-2713	1	VALVE AS						
	4	1	184-3841	1	RING						
	5	1	184-3833	1	VALVE AS						
	6	1	177-2709	1	BODY						
	7	1	9S-6130	1	PLUG-O-RING						
	8	1	2S-4078	1	SEAL-O-RING						



GRAPHIC #1

g00791641

HYDRAULIC SYSTEM

190-7752 VALVE GP-CHECK & RELIEF

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 176-4654 LINES GP-BOOM CYLINDER

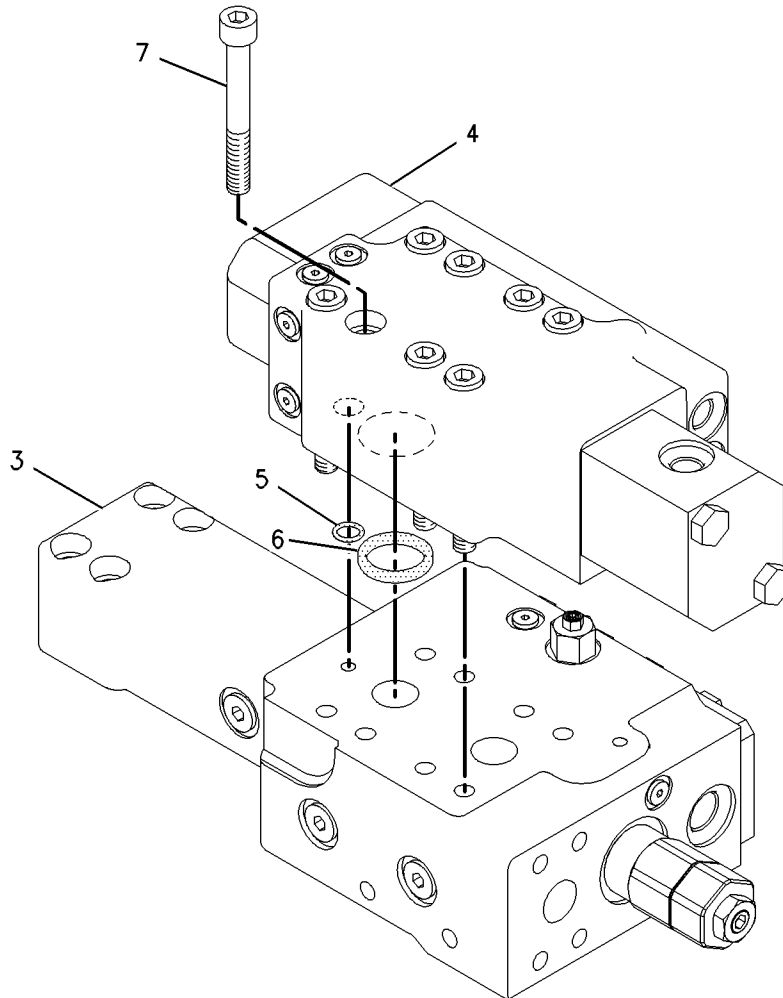
AN ATTACHMENT

SMCS-5117

i01547111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	3	1	177-2656	1	VALVE GP-RELIEF						572
Y	4	1	190-7753	1	VALVE GP-PILOT						556
	5	1	095-1578	2	SEAL-O-RING						
	6	1	1P-3702	2	SEAL-RECTANGULAR						
M	7	1	8T-0342	8	BOLT-SOCKET HEAD (M10X1.5X80MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00762686

HYDRAULIC SYSTEM

190-7756 VALVE GP-CHECK & RELIEF

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 176-4654 LINES GP-BOOM CYLINDER

AN ATTACHMENT

SMCS-5117

i01458927

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	3	1	177-2670	1	VALVE GP-RELIEF	574
Y	4	1	190-7757	1	VALVE GP-PILOT	558
	5	1	095-1578	2	SEAL-O-RING	
	6	1	1P-3702	2	SEAL-RECTANGULAR	
M	7	1	8T-0342	8	BOLT-SOCKET HEAD (M10X1.5X80MM)	

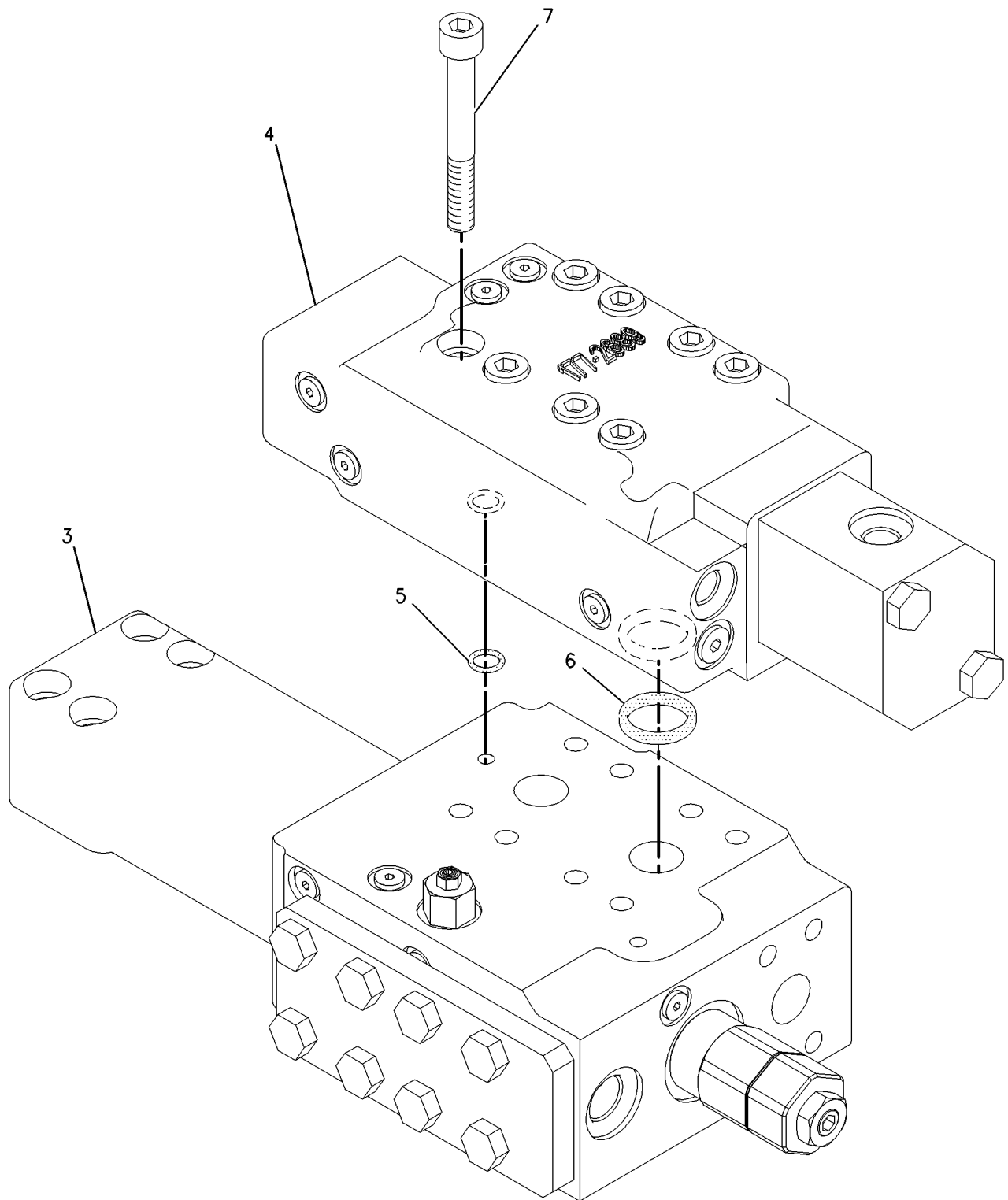
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

190-7756 VALVE GP-CHECK & RELIEF (contd.)

i01458927



GRAPHIC #1

g00762748

HYDRAULIC SYSTEM

192-3293 VALVE GP-CHECK & RELIEF

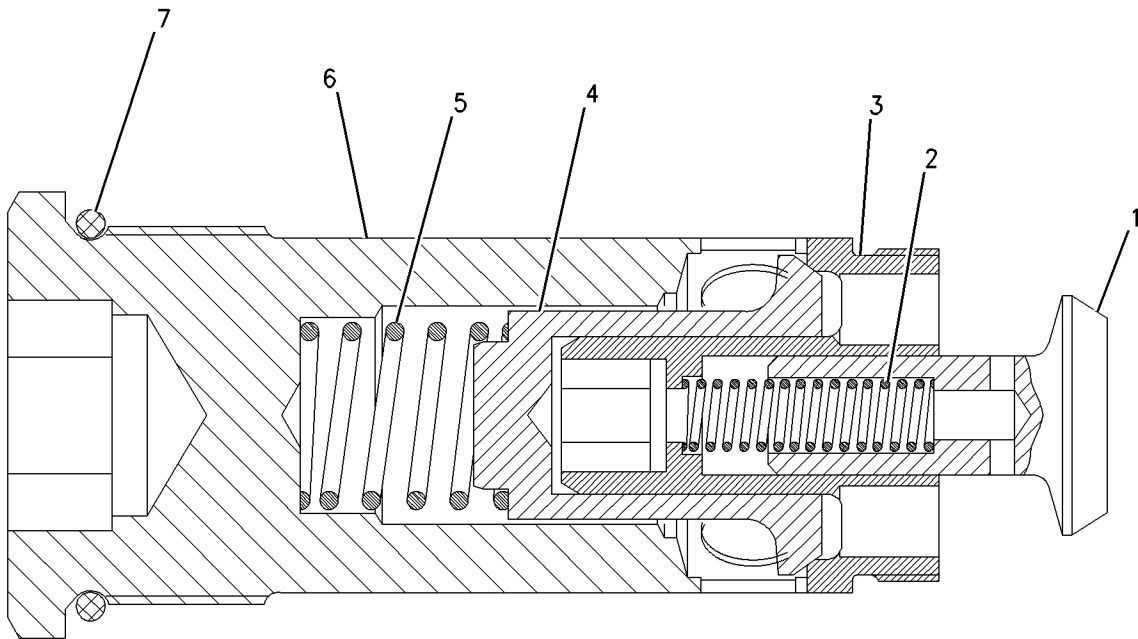
S/N: CAM1-UP; CBY1-UP

PART OF 192-2892 HEAD GP-MOTOR

SMCS-5117

i01502535

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-3294	1	POPPET						
	2	1	192-9208	1	SPRING						
	3	1	194-3281	1	SEAT						
	4	1	194-3282	1	POPPET						
	5	1	194-3283	1	SPRING						
	6	1	194-6601	1	PLUG						
	7	1	6V-3550	1	SEAL-O-RING						



GRAPHIC #1

g00794021

HYDRAULIC SYSTEM

153-5295 VALVE GP-CONTROL

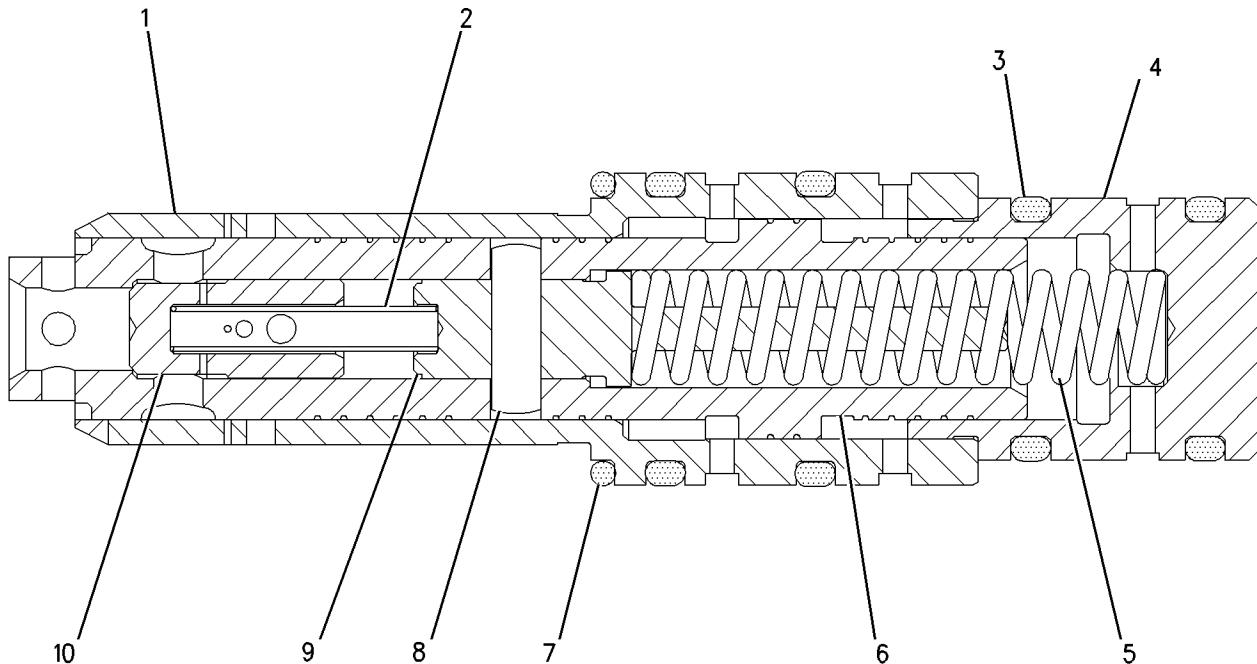
S/N: BPH1-UP; CAM1-UP

PART OF 177-2702 VALVE GP-CONTROL

SMCS-5051

i01549489

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-0471	1	SLEEVE						
	2	1	158-8186	1	SPRING						
	3	1	102-0889	2	SEAL-O-RING						
	4	1	153-5308	1	SLEEVE						
	5	1	158-8177	1	SPRING						
	6	1	158-8109	1	STEM						
	7	1	103-8173	2	SEAL-O-RING						
	8	1	140-0677	1	PIN						
	9	1	147-4194	1	ROD						
	10	1	140-0674	1	VALVE						



GRAPHIC #1

g00705397

HYDRAULIC SYSTEM

177-2701 VALVE GP-CONTROL-MAIN (RIGHT)

S/N: BPH1-UP; CAM1-UP

PART OF 177-2700 VALVE GP-MAIN CONTROL

SMCS-5051

i01469637

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-2703	1	VALVE GP-CONTROL						
	2	1	158-8159	5	HOUSING						
	3	1	6E-2274	5	COVER						
	4	1	111-9959	1	PLUG-PIPE						
	5	1	8T-4121	20	WASHER-HARD (11X21X2.5MM THK)						
M	6	1	8T-4195	28	BOLT (M10X1.5X30MM)						
	7	1	6V-5597	10	SEAL-O-RING						
	8	1	6E-4816	2	PLUG GP						
		1	6E-2745	1	SEAL-O-RING						
					-OR-						
		1	033-5879	1	SEAL-O-RING						
		1	033-6036	1	SEAL-O-RING						
		1	9J-0705	1	RING-BACKUP						
	9	1	6E-5731	4	VALVE						
	10	1	6E-5730	5	PLUG						
	11	1	4K-1388	5	SEAL-O-RING						
	12	1	7I-1248	5	SPRING						
	13	1	7Y-8099	2	COVER						
	14	1	4J-0519	2	SEAL-O-RING						
Y	15A	1	116-3600	2	VALVE GP-RELIEF (BUCKET)						565
Y	15B	1	116-3600	1	VALVE GP-RELIEF (BOOM 1)						565
	16	1	153-5286	1	VALVE						
	17	1	153-5291	1	CONNECTOR						
	18	1	153-5294	1	PLUG						
	19	1	3D-2824	1	SEAL-O-RING						
	20	1	153-5293	1	SPRING						
	21	1	153-5292	1	VALVE						
	22	1	153-5290	1	PLUG						
	23	1	7M-8485	1	SEAL-O-RING						
	24	1	153-5288	1	SPRING						
	25	1	153-5289	1	GUIDE						
	26	1	2M-9780	1	SEAL-O-RING						
Y	27	1	109-5152	1	VALVE GP-RELIEF (NEG FLOW CONTROL)						564

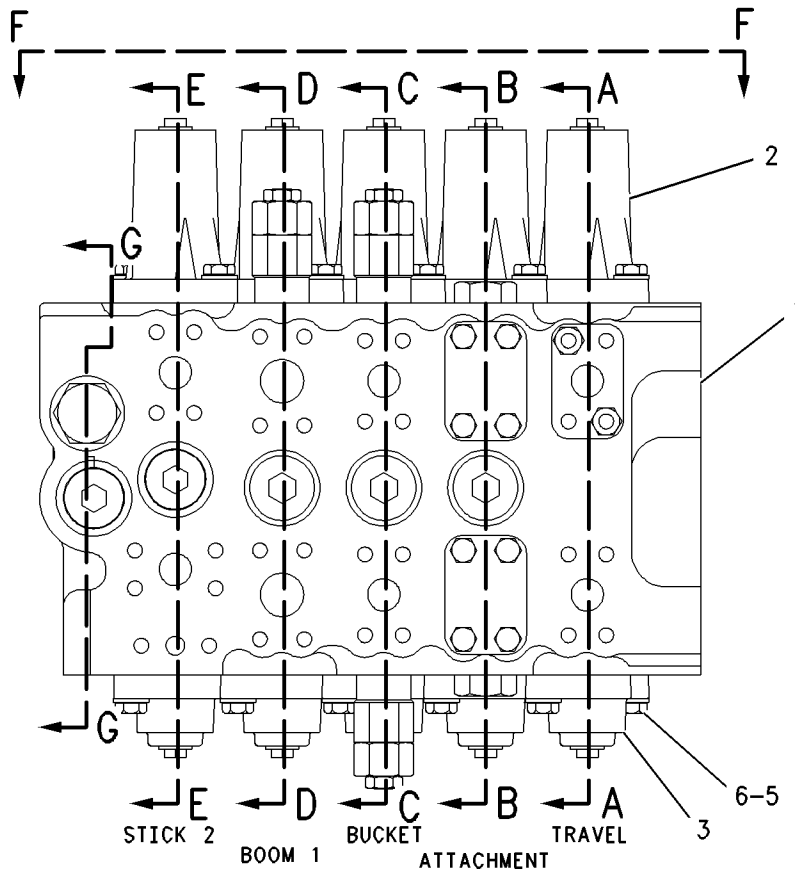
M-METRIC PART

Y-SEPARATE ILLUSTRATION

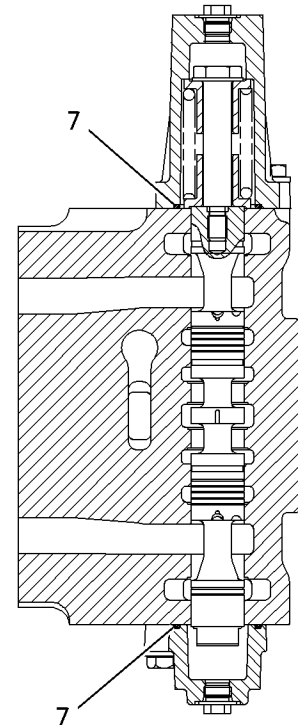
HYDRAULIC SYSTEM

177-2701 VALVE GP-CONTROL (contd.)

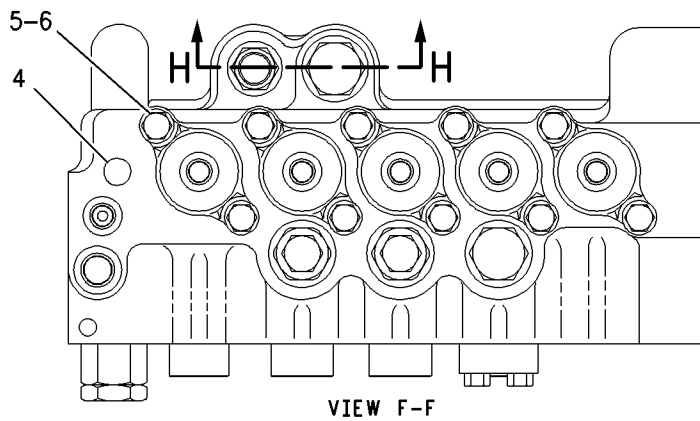
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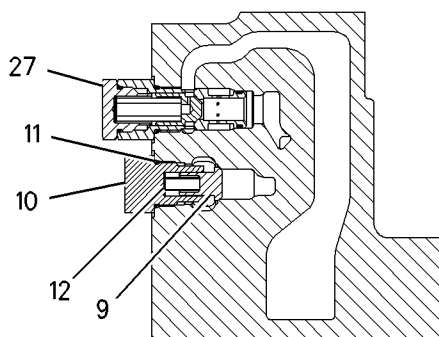
REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



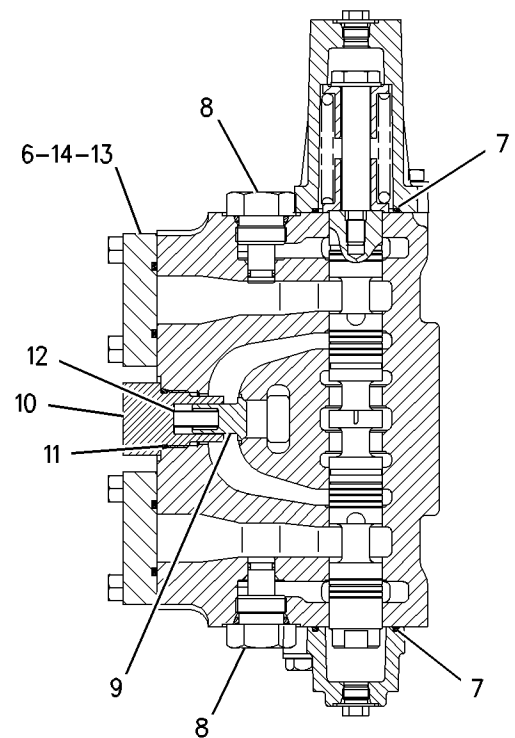
SECTION A-A



VIEW F-F



SECTION G-G



SECTION B-B

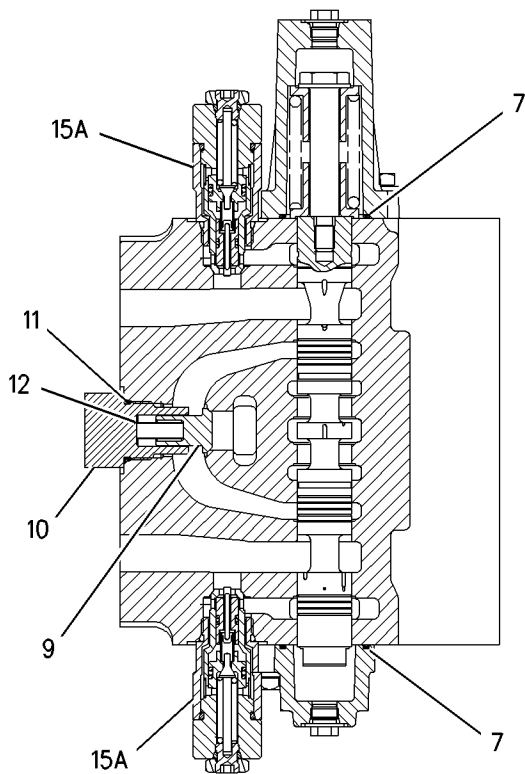
GRAPHIC #1

g00766857

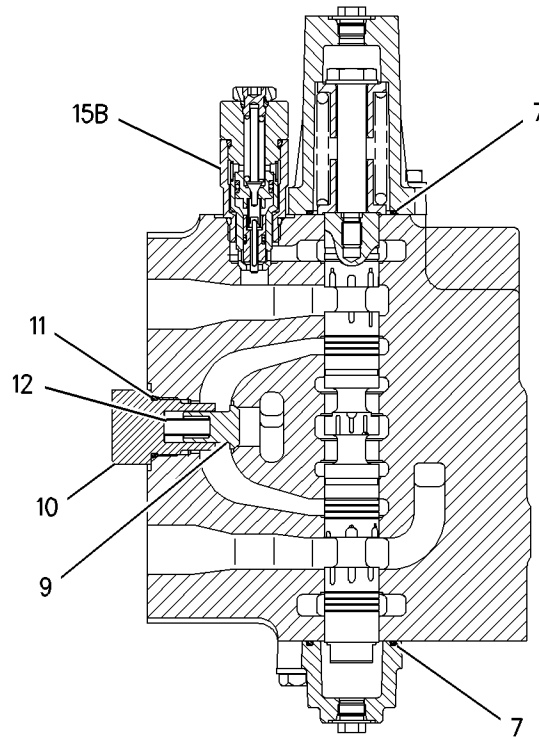
HYDRAULIC SYSTEM

177-2701 VALVE GP-CONTROL (contd.)

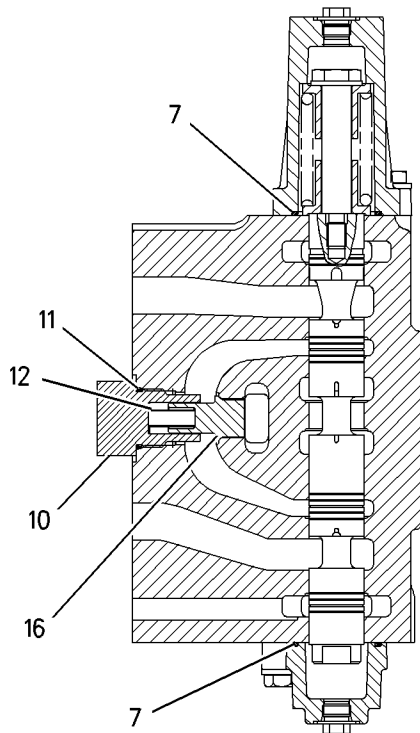
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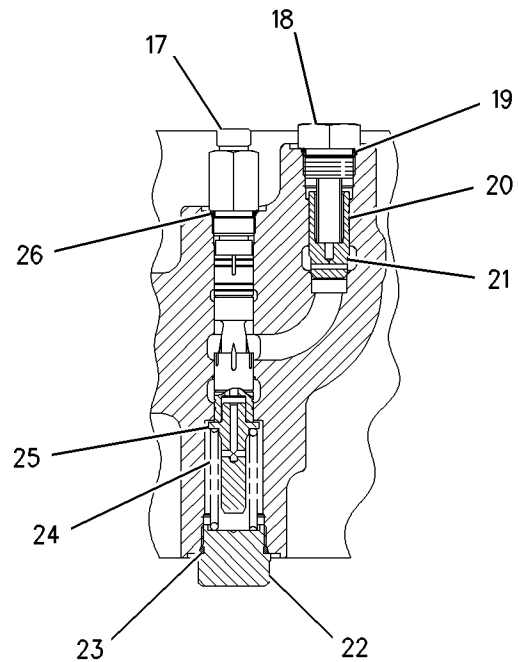
SECTION C-C



SECTION D-D



SECTION E-E



SECTION H-H

GRAPHIC #2

g00766856

MEMORANDA

HYDRAULIC SYSTEM

177-2702 VALVE GP-CONTROL

S/N: BPH1-UP; CAM1-UP

PART OF 177-2700 VALVE GP-MAIN CONTROL

SMCS-5051

i01549098

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	177-2704	1	VALVE GP-CONTROL	524
	2	1	158-8206	1	HOUSING	
	3	1	8T-6759	2	PLUG-PIPE	
M	4	1	8T-4195	20	BOLT (M10X1.5X30MM)	
	5	1	8T-4121	24	WASHER-HARD (11X21X2.5MM THK)	
	6	1	158-8159	4	HOUSING	
Y	7	1	121-1491	1	VALVE GP-SOLENOID	585
M	8	1	7I-2272	2	BOLT (M5X0.8X12MM)	
	9	1	6E-2274	5	COVER	
M	10	1	8T-6685	4	BOLT (M10X1.50X110MM)	
	11	1	6E-3653	1	PLUG	
	12	1	4I-3569	1	RING	
	13	1	7Y-5219	1	SEAL-O-RING	
	14	1	165-9595	1	COVER	
	15	1	9S-4180	3	PLUG-O-RING	
	16	1	4J-7533	3	SEAL-O-RING	
	17	1	4J-5309	1	SEAL-O-RING	
	18	1,2	6E-5643	3	VALVE	
	19	1,2	4T-3148	3	SPRING	
	20	1	6E-5644	1	PLUG	
	21	1,2	6V-5597	9	SEAL-O-RING	
Y	22	1	153-5295	1	VALVE GP-CONTROL	515
	23	1	158-8140	1	PLUG	
	24	1,2	7M-8485	3	SEAL-O-RING	
	25	1	153-5306	1	SPRING	
Y	26	1	116-3600	1	VALVE GP-RELIEF	565
	27	1	153-5298	1	SLEEVE	
	28	1	153-5299	1	VALVE	
	29	2	153-5309	1	SLEEVE	
	30	2	9S-4188	1	PLUG-O-RING	
	31	1,2	4K-1388	3	SEAL-O-RING	
	32	2	6V-5393	1	SEAL-O-RING	
	33	2	158-8207	1	STOP	
	34	2	6E-5169	1	SPRING	
	35	2	6E-5638	2	PLUG	
	36	2	6V-3922	2	SEAL-O-RING	
	37	2	4I-6397	2	RING	
	38	2	095-1603	1	SEAL-O-RING	
	39	2	103-8177	1	ADAPTER	
Y	40	2	171-0030	1	VALVE GP-RELIEF	570
	41	2	153-5291	1	CONNECTOR	
	42	2	2M-9780	1	SEAL-O-RING	
	43	2	153-5294	1	PLUG	
	44	2	3D-2824	1	SEAL-O-RING	
	45	2	153-5293	1	SPRING	
	46	2	153-5292	1	VALVE	
	47	2	153-5288	1	SPRING	
	48	2	153-5289	1	GUIDE	
	49	2	153-5290	2	PLUG	
	50	2	153-5311	1	SPRING	
	51	2	158-8150	1	VALVE GP-CONTROL	
	52	2	3J-1907	1	SEAL-O-RING	
	53	2	123-2485	1	PLUG	
	54	2	6E-5731	1	VALVE	
	55	2	6E-5730	1	PLUG	
	56	2	7I-1248	1	SPRING	

HYDRAULIC SYSTEM

177-2702 VALVE GP-CONTROL (contd.)

i01549098

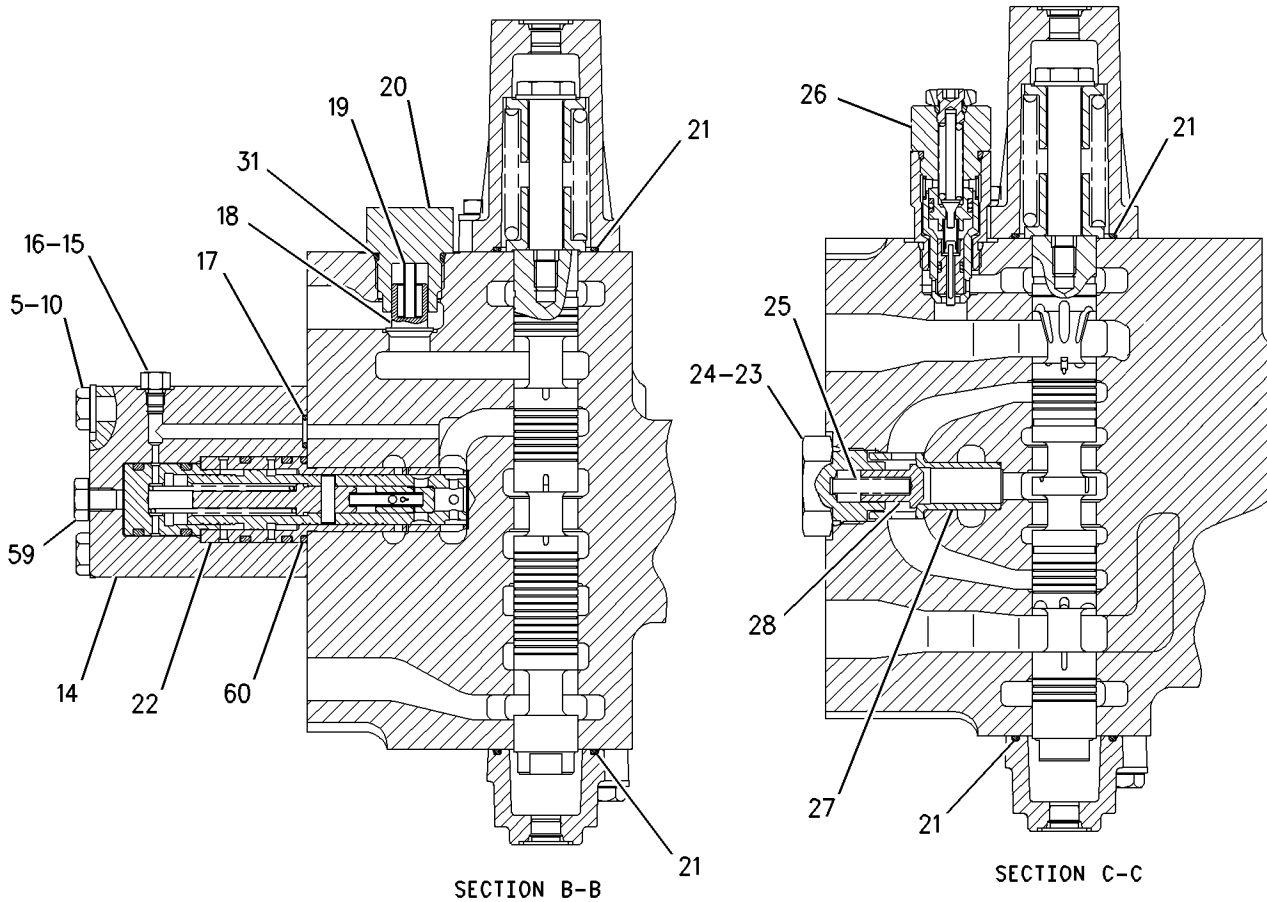
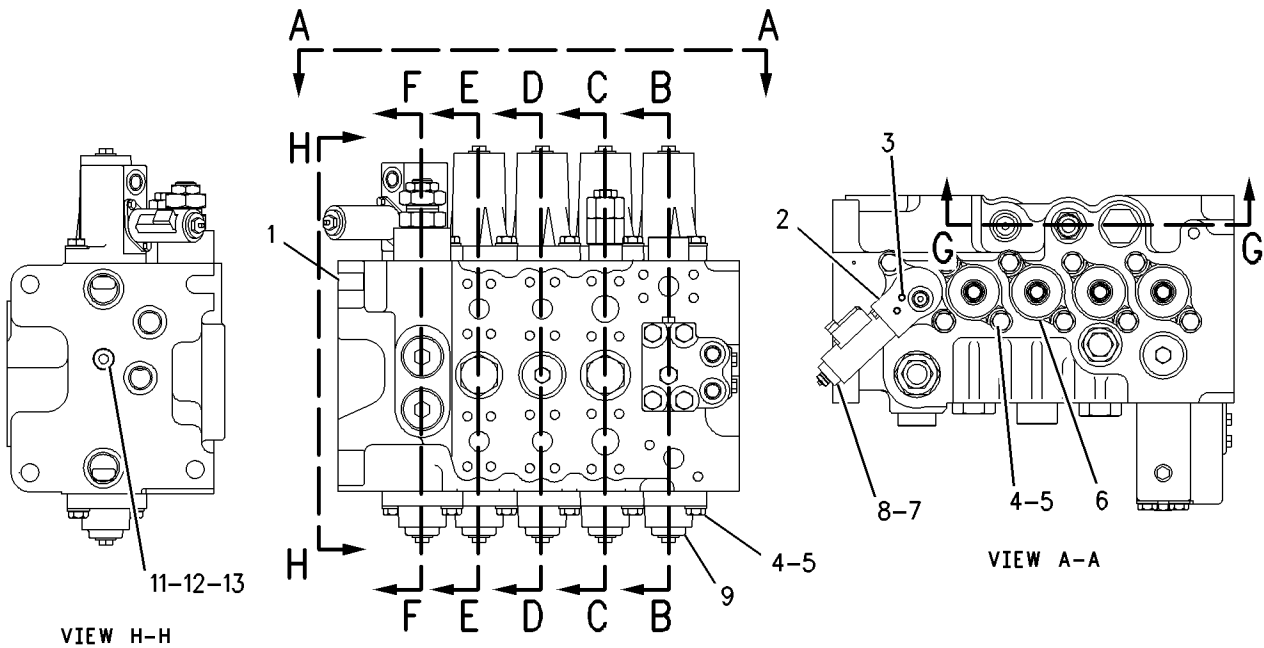
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	57	2	095-1575	1	SEAL-O-RING	
	58	2	095-1778	1	RING-BACKUP	
M	59	1	7X-2621	1	BOLT (M10X1.50X12MM)	
	60	1	103-8173	1	SEAL-O-RING	

M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

177-2702 VALVE GP-CONTROL (contd.)

i01549098



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

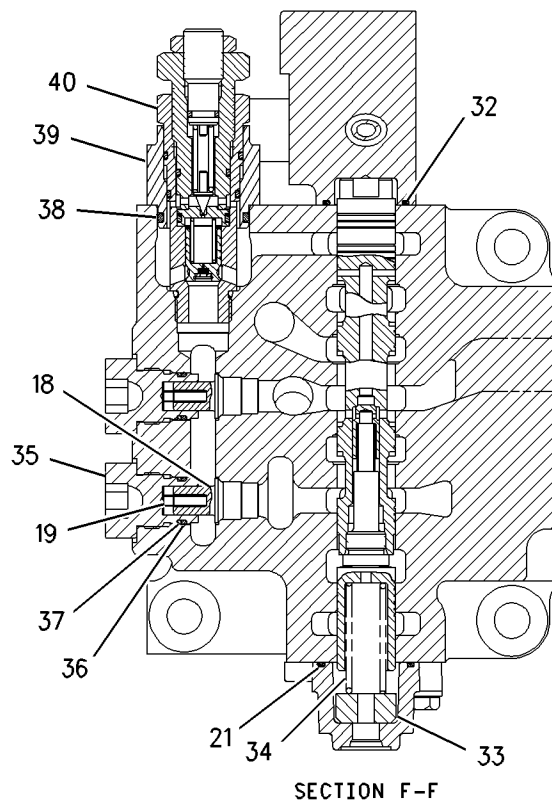
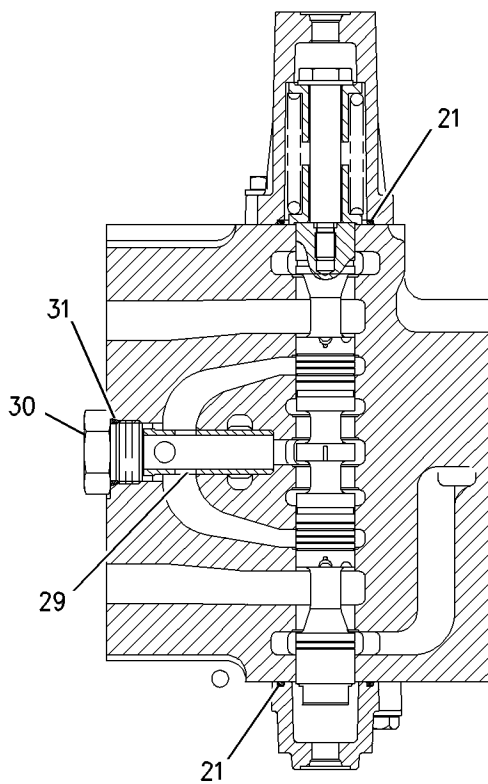
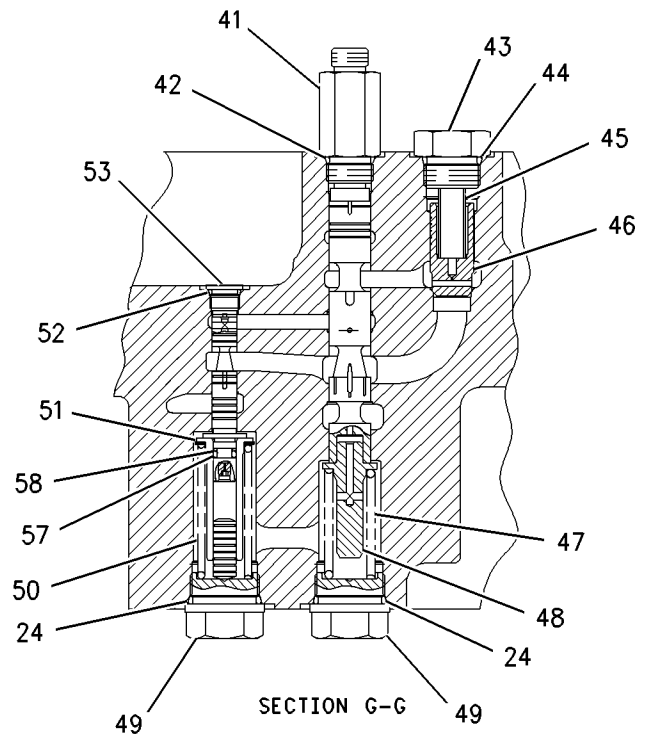
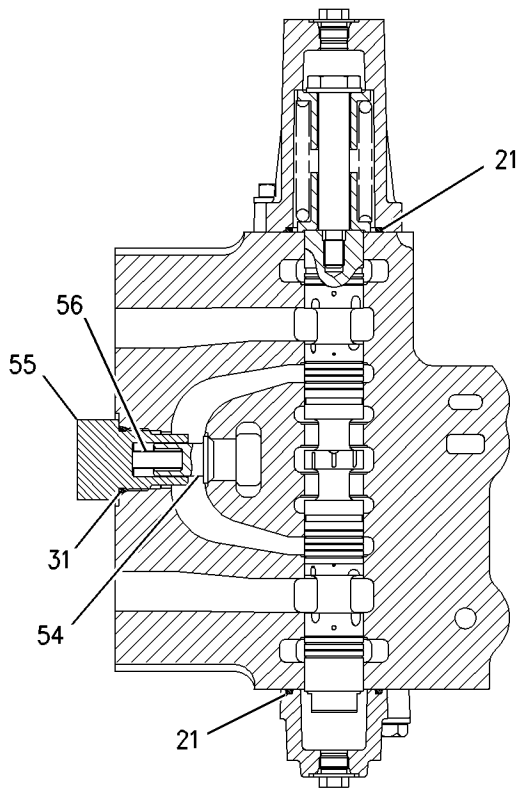
GRAPHIC #1

g00792443

HYDRAULIC SYSTEM

177-2702 VALVE GP-CONTROL (contd.)

i01549098



GRAPHIC #2

g00792442

HYDRAULIC SYSTEM

177-2704 VALVE GP-CONTROL

S/N: BPH1-UP; CAM1-UP

PART OF 177-2702 VALVE GP-CONTROL

SMCS-5051

i01549366

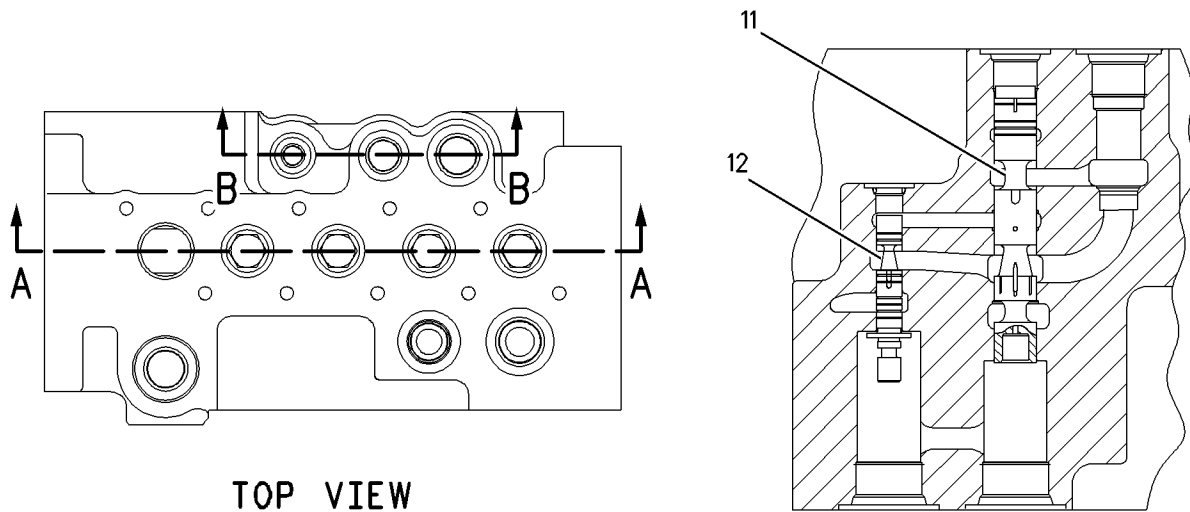
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	153-5218	1	BODY-VALVE						
	2	1	153-5272	1	STEM-STRAIGHT TRAVEL						
	3	1	6E-2271	8	RETAINER						
M	4	1	153-5276	4	BOLT						
	5	1	104-7293	2	SPRING						
	6	1	104-7294	1	SPRING						
	7	1	153-5275	1	STEM-BOOM						
	8	1	185-0426	1	STEM-STICK						
	9	1	190-7829	1	STEM-SWING						
	10	1	153-5270	1	STEM-TRAVEL						
	11	1	190-7814	1	STEM						
	12	1	158-8149	1	VALVE AS						
	13	1	6E-2163	1	VALVE						
	14	1	2S-2596	1	SPRING						
	15	1	158-8135	1	GUIDE						
	16	1	3K-0360	1	SEAL-O-RING						
	17	1	158-8134	1	PISTON						
	18	1	104-7296	1	SPRING						

M-METRIC PART

HYDRAULIC SYSTEM

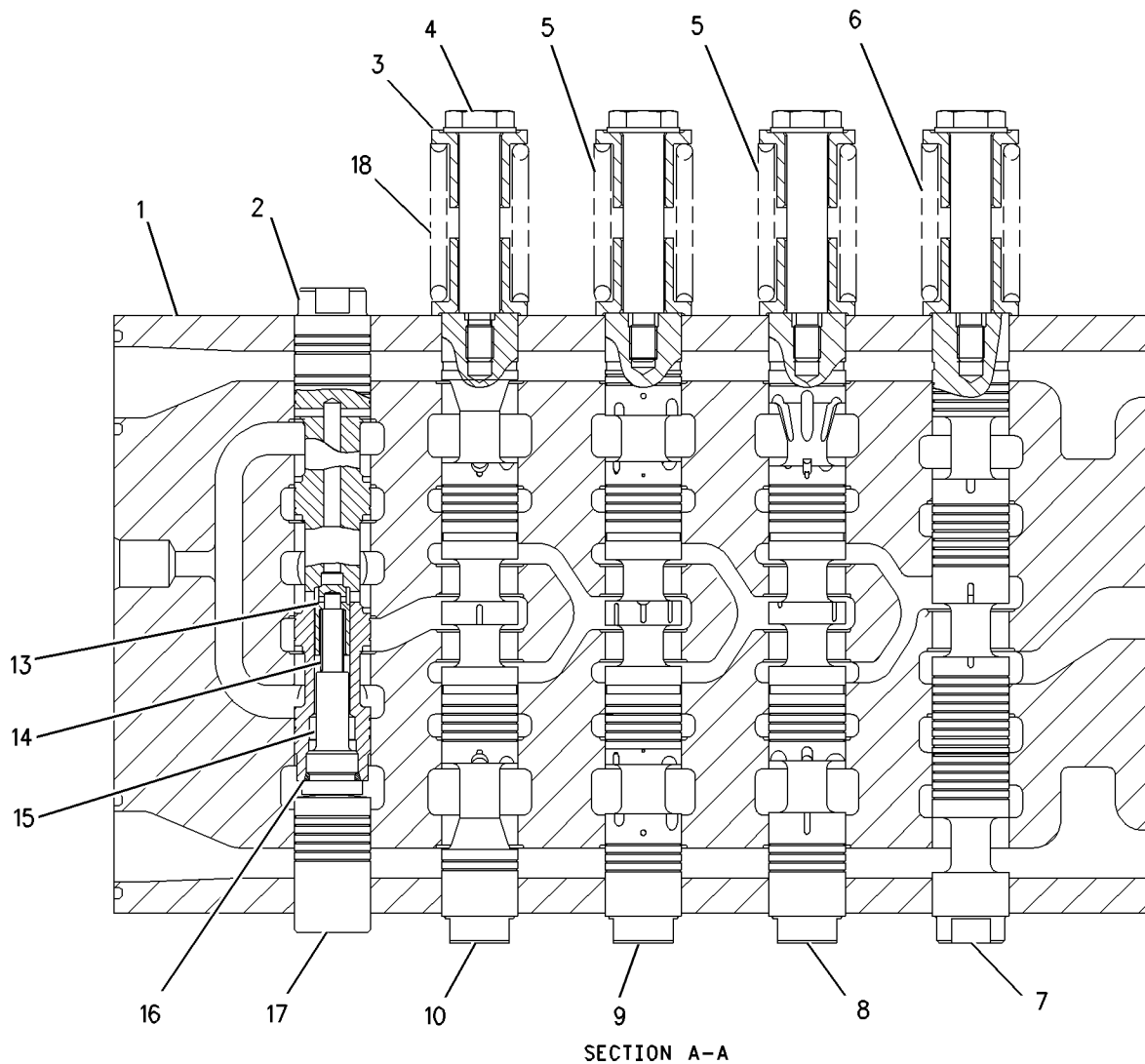
177-2704 VALVE GP-CONTROL (contd.)

i01549366



TOP VIEW

SECTION B-B



SECTION A-A

GRAPHIC #1

g00805479

HYDRAULIC SYSTEM

190-7739 VALVE GP-CONTROL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

AUXILIARY

PART OF 173-7988 VALVE & MTG GP-CONTROL, 197-0185 VALVE GP-CONTROL

ALSO AN ATTACHMENT

SMCS-5051

i01547117

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	153-5242	1	VALVE GP-CONTROL	
		1	6E-2271	2	RETAINER	
		1	104-7293	1	SPRING	
M		1	153-5276	1	BOLT	
	2	1	158-8159	1	HOUSING	
Y	3	1	185-0490	2	VALVE GP-FLOW CONTROL & RELIEF	538
	4	1	6E-2274	1	COVER	
	5	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)	
M	6	1	8T-4195	4	BOLT (M10X1.5X30MM)	
	7	1	4J-8998	2	SEAL-O-RING	
	8	1	1P-3702	2	SEAL-RECTANGULAR	
M	9	1	7X-2545	8	BOLT (M10X1.5X150MM)	
	10	1	165-9473	2	PLUG GP	
					(EACH INCLUDES)	
		1	3D-2824	1	SEAL-O-RING	
		1	6M-5062	1	SEAL-O-RING	
		1	7J-9108	1	SEAL-O-RING	
		1	9J-0705	1	RING-BACKUP	
		1	165-9474	1	PLUG	
	11	1	6V-5597	2	SEAL-O-RING	
	12	1	6E-5731	1	VALVE	
	13	1	4K-1388	1	SEAL-O-RING	
	14	1	6E-5730	1	PLUG	
	15	1	7I-1248	1	SPRING	
	16	1	4J-5267	2	SEAL-O-RING	

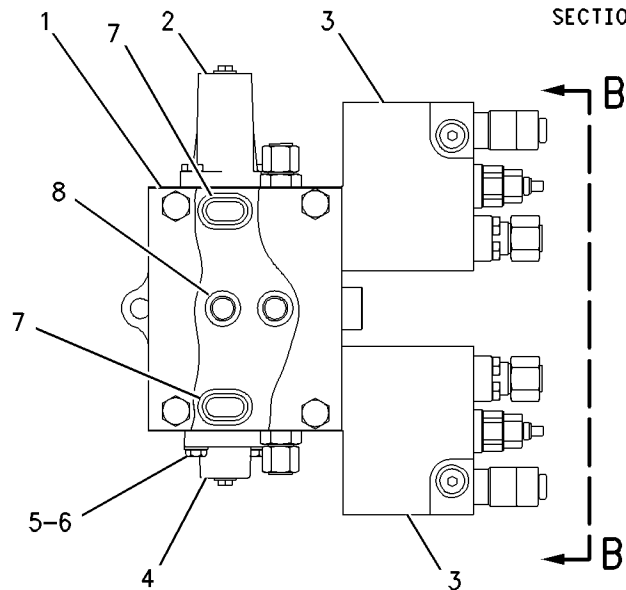
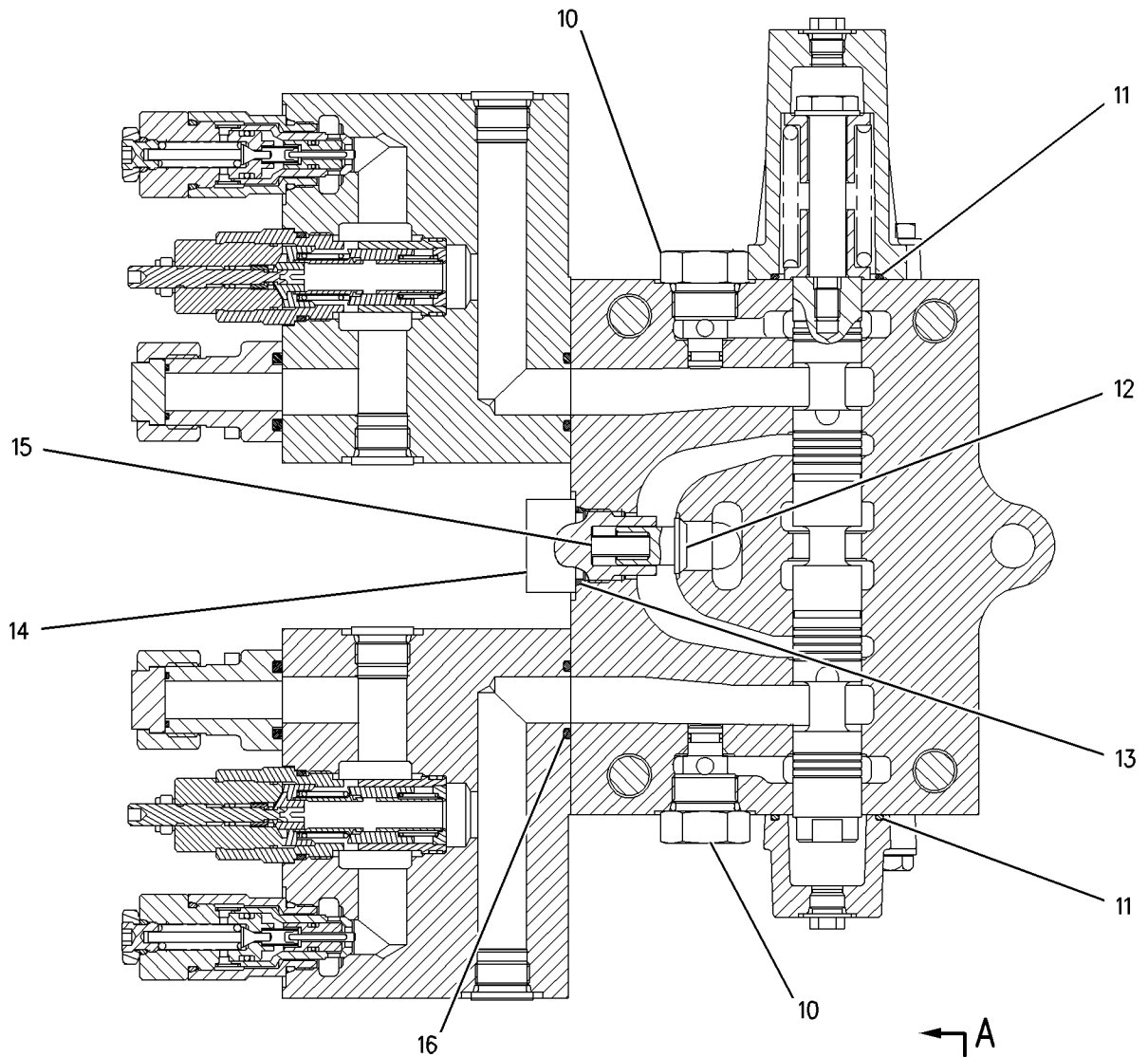
M-METRIC PART

Y-SEPARATE ILLUSTRATION

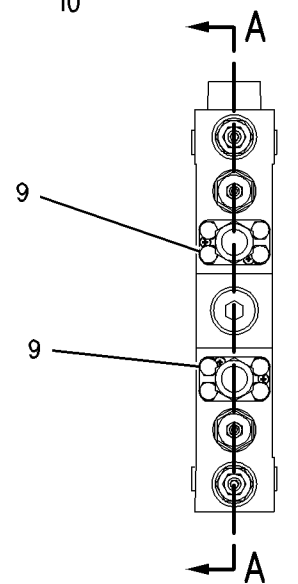
HYDRAULIC SYSTEM

190-7739 VALVE GP-CONTROL (contd.)

i01547117



SECTION A-A



VIEW B-B

GRAPHIC #1

g00757970

HYDRAULIC SYSTEM

197-0185 VALVE GP-CONTROL

S/N: CBY1-UP

PART OF 186-3943 HYDRAULIC AR

SMCS-5051

i01511513

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	197-0186	1	VALVE GP-CONTROL	530
Y	2	1	197-0187	1	VALVE GP-CONTROL	534
M	3	1	8T-4193	4	BOLT (M16X2X50MM)	
	4	1	9X-8257	9	WASHER (17.5X30X3.5MM THK)	
	5	1	4J-0519	2	SEAL-O-RING	
	6	1	1P-3702	2	SEAL-RECTANGULAR	
Y	9	1	153-5313	1	VALVE GP-RELIEF (NEG FLOW CONTROL)	569
M	10	1	7I-1026	5	BOLT-SOCKET HEAD (M16X2X130MM)	
Y	11	1	190-7739	1	VALVE GP-CONTROL	526

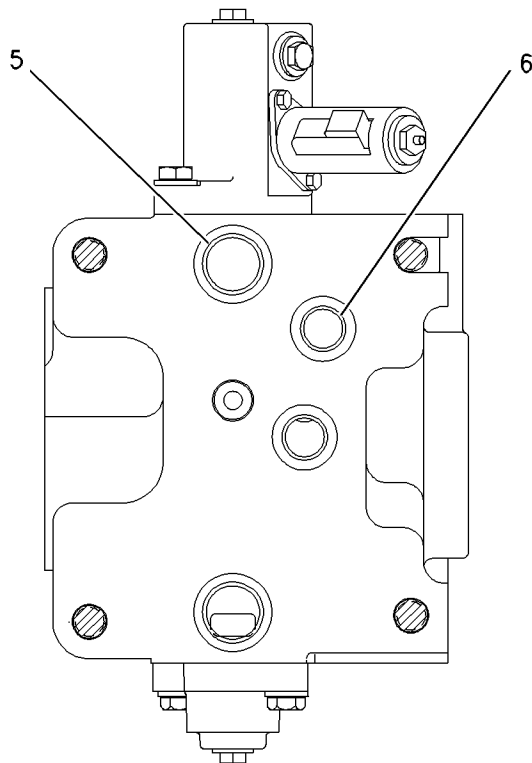
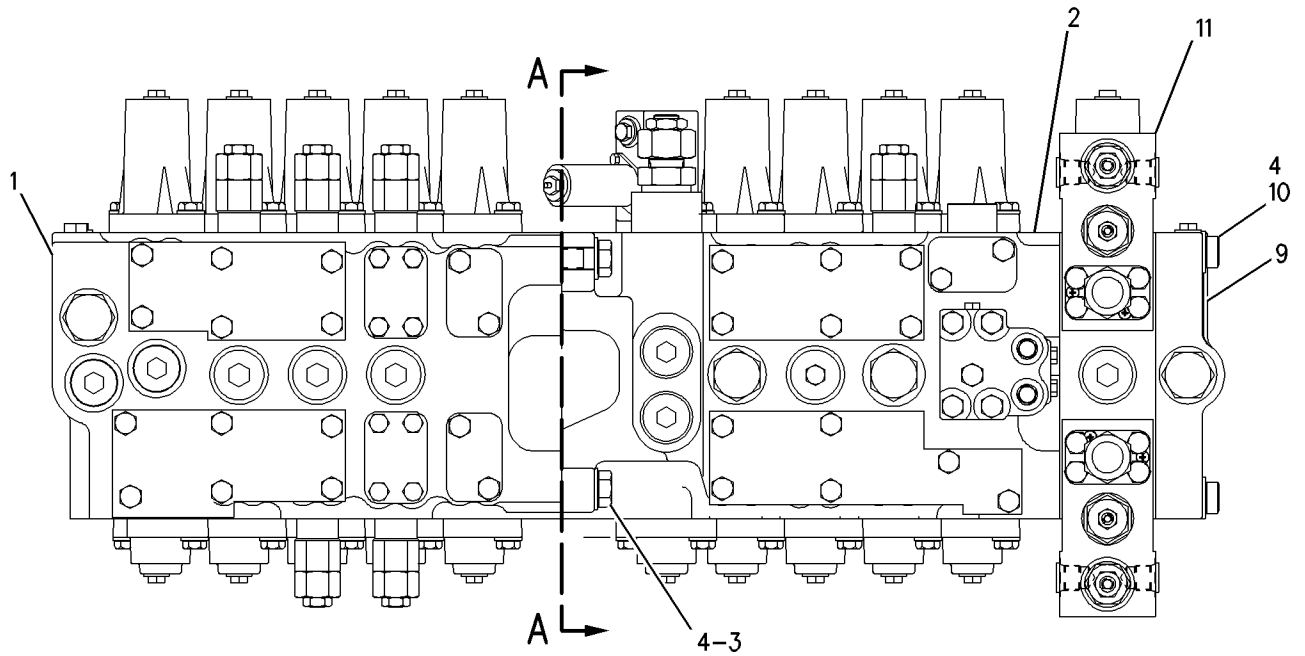
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

197-0185 VALVE GP-CONTROL (contd.)

i01511513



SECTION A-A

GRAPHIC #1

g00793278

HYDRAULIC SYSTEM

197-0186 VALVE GP-CONTROL

S/N: CBY1-UP

PART OF 197-0185 VALVE GP-CONTROL

SMCS-5051

i01516817

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	197-0188	1	VALVE GP-CONTROL	
		1	6E-2271	10	RETAINER	
		1	104-7293	3	SPRING	
		1	104-7294	1	SPRING	
		1	104-7296	1	SPRING	
M		1	153-5276	5	BOLT	
	2	1	158-8159	5	HOUSING	
	3	1	6E-2274	5	COVER	
	4	1	111-9959	1	PLUG-PIPE	
	5	1	8T-4121	20	WASHER-HARD (11X21X2.5MM THK)	
M	6	1	8T-4195	28	BOLT (M10X1.5X30MM)	
	7	1,2	6V-5597	10	SEAL-O-RING	
	8	1,2	6E-5731	4	VALVE	
	9	1,2	6E-5730	5	PLUG	
	10	1,2	4K-1388	5	SEAL-O-RING	
	11	1,2	7I-1248	5	SPRING	
	12	1	7Y-8099	2	COVER	
	13	1	4J-0519	2	SEAL-O-RING	
Y	14	1,2	116-3600	5	VALVE GP-RELIEF	565
	15	2	153-5286	1	VALVE	
	16	2	153-5291	1	CONNECTOR	
	17	2	153-5294	1	PLUG	
	18	2	3D-2824	1	SEAL-O-RING	
	19	2	153-5293	1	SPRING	
	20	2	153-5292	1	VALVE	
	21	2	153-5290	1	PLUG	
	22	2	7M-8485	1	SEAL-O-RING	
	23	2	153-5288	1	SPRING	
	24	2	153-5289	1	GUIDE	
	25	2	2M-9780	1	SEAL-O-RING	
Y	26	2	109-5152	1	VALVE GP-RELIEF	564

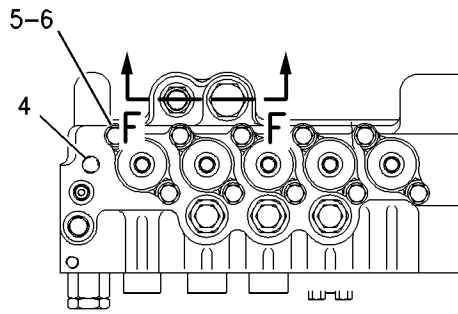
M-METRIC PART

Y-SEPARATE ILLUSTRATION

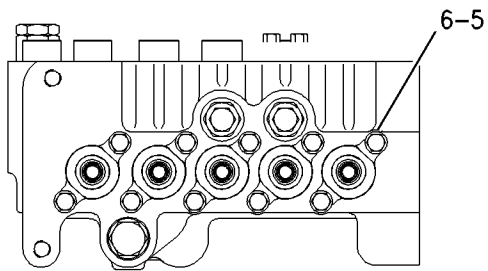
HYDRAULIC SYSTEM

197-0186 VALVE GP-CONTROL (contd.)

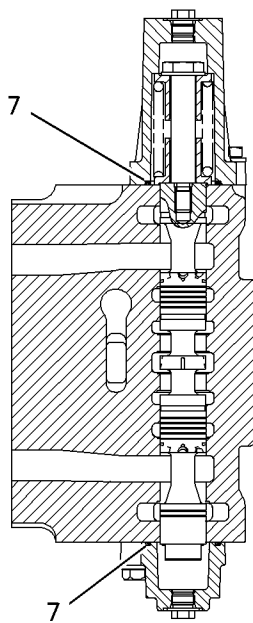
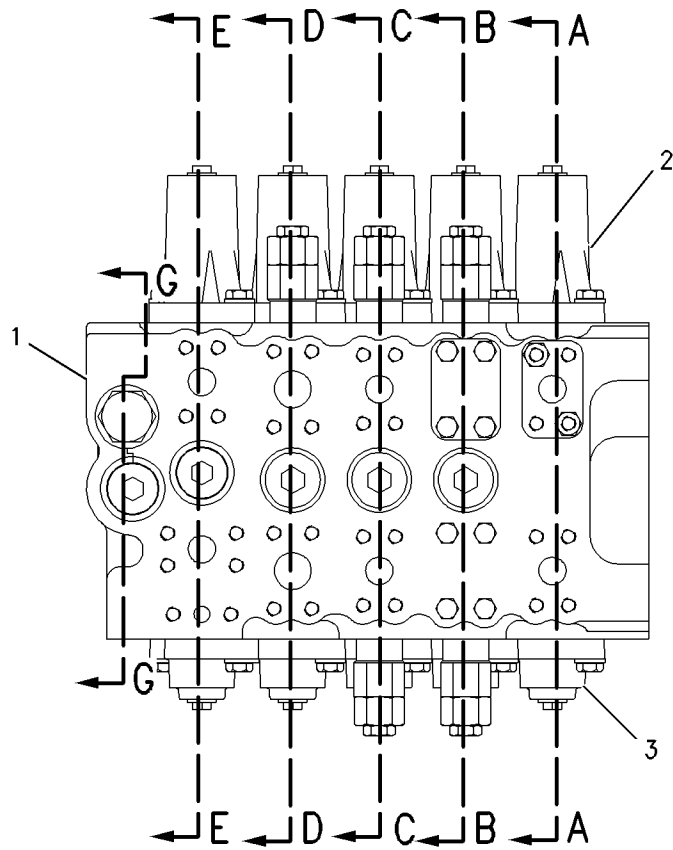
i01516817



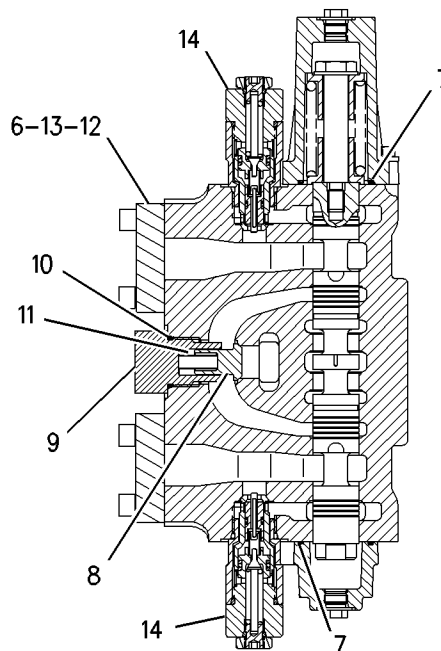
TOP VIEW



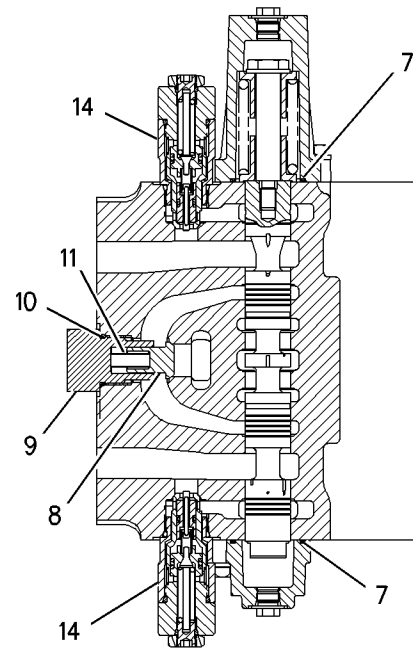
BOTTOM VIEW



SECTION A-A



SECTION B-B



SECTION C-C

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

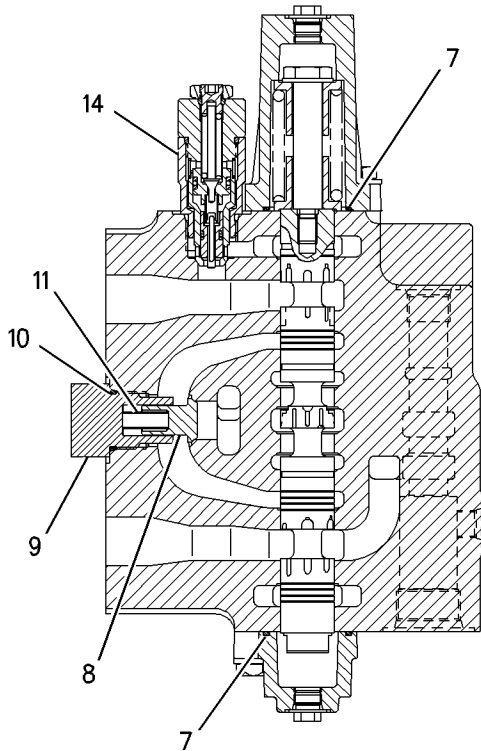
GRAPHIC #1

g00792405

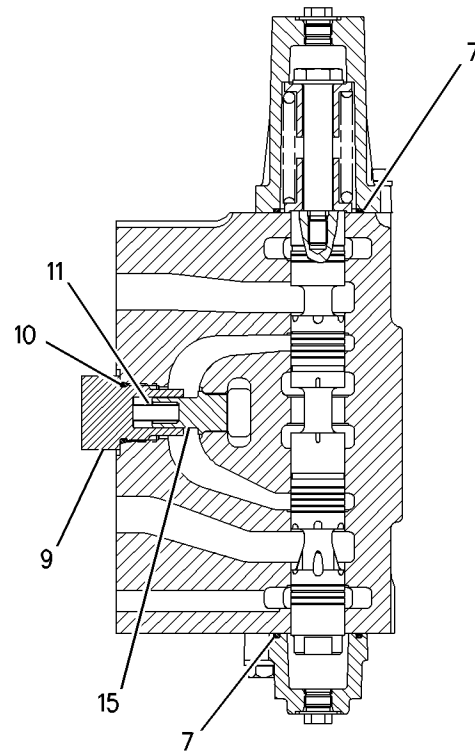
HYDRAULIC SYSTEM

197-0186 VALVE GP-CONTROL (contd.)

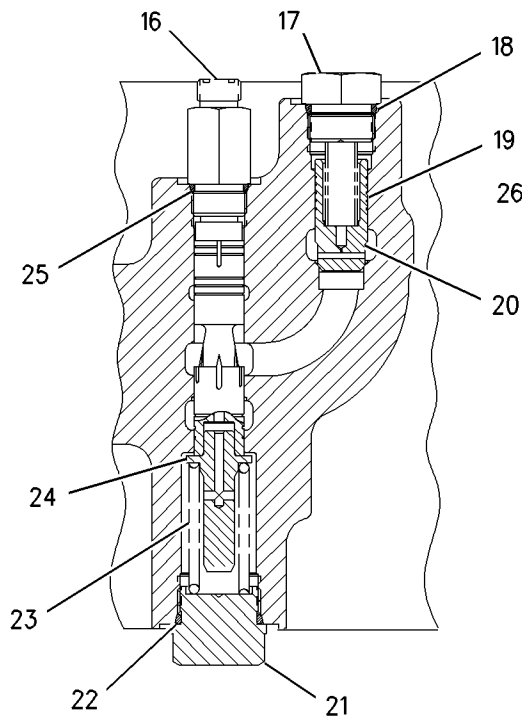
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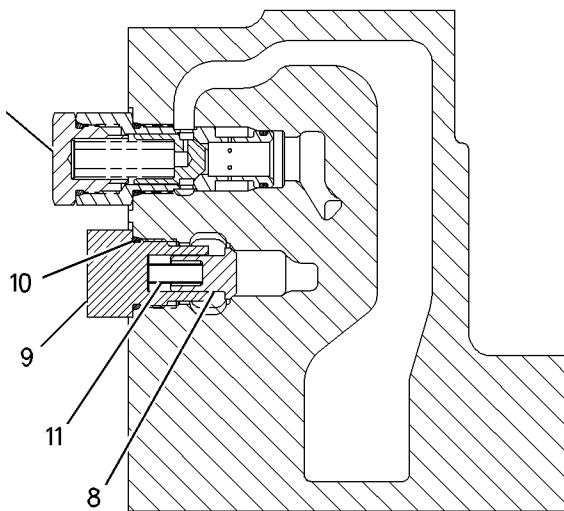
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

GRAPHIC #2

g00792429

MEMORANDA

HYDRAULIC SYSTEM

197-0187 VALVE GP-CONTROL

S/N: CBY1-UP

PART OF 197-0185 VALVE GP-CONTROL

SMCS-5051

i01529859

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	197-0189	1	VALVE GP-CONTROL	
		1	2S-2596	1	SPRING	
		1	3K-0360	1	SEAL-O-RING	
		1	6E-2163	1	VALVE	
		1	6E-2271	8	RETAINER	
		1	104-7293	2	SPRING	
		1	104-7294	1	SPRING	
		1	104-7296	1	SPRING	
M		1	153-5276	4	BOLT	
	2	1	158-8206	1	HOUSING	
	3	1	8T-6759	2	PLUG-PIPE	
M	4	1	8T-4195	20	BOLT (M10X1.5X30MM)	
	5	1	8T-4121	24	WASHER-HARD (11X21X2.5MM THK)	
	6	1	158-8159	4	HOUSING	
Y	7	1	121-1491	1	VALVE GP-SOLENOID	585
M	8	1	7I-2272	2	BOLT (M5X0.8X12MM)	
	9	1	6E-2274	5	COVER	
M	10	1	8T-6685	4	BOLT (M10X1.50X110MM)	
	11	1	6E-3653	1	PLUG	
	12	1	4I-3569	1	RING	
	13	1	7Y-5219	1	SEAL-O-RING	
	14	1	165-9595	1	COVER	
	15	1	9S-4180	3	PLUG-O-RING	
	16	1	4J-7533	3	SEAL-O-RING	
	17	1	4J-5309	1	SEAL-O-RING	
	18	1,2	6E-5643	3	VALVE	
	19	1,2	4T-3148	3	SPRING	
	20	1	6E-5644	1	PLUG	
	21	1,2	6V-5597	9	SEAL-O-RING	
	22	1	153-5295	1	VALVE GP-CONTROL	
		1	102-0889	2	SEAL-O-RING	
		1	103-8173	2	SEAL-O-RING	
		1	140-0674	1	VALVE	
		1	140-0677	1	PIN	
		1	158-8186	1	SPRING	
	23	1	158-8140	1	PLUG	
	24	1,2	7M-8485	3	SEAL-O-RING	
	25	1	153-5306	1	SPRING	
Y	26	1	116-3600	1	VALVE GP-RELIEF	565
	27	1	153-5298	1	SLEEVE	
	28	1	153-5299	1	VALVE	
	29	2	153-5309	1	SLEEVE	
	30	2	9S-4188	1	PLUG-O-RING	
	31	1,2	4K-1388	3	SEAL-O-RING	
	32	2	6V-5393	1	SEAL-O-RING	
	33	2	158-8207	1	STOP	
	34	2	6E-5169	1	SPRING	
	35	2	6E-5638	2	PLUG	
	36	2	6V-3922	2	SEAL-O-RING	
	37	2	4I-6397	2	RING	
	38	2	095-1603	1	SEAL-O-RING	
	39	2	103-8177	1	ADAPTER	
Y	40	2	171-0030	1	VALVE GP-RELIEF	570
	41	2	153-5291	1	CONNECTOR	
	42	2	2M-9780	1	SEAL-O-RING	
	43	2	153-5294	1	PLUG	

HYDRAULIC SYSTEM

197-0187 VALVE GP-CONTROL (contd.)

i01529859

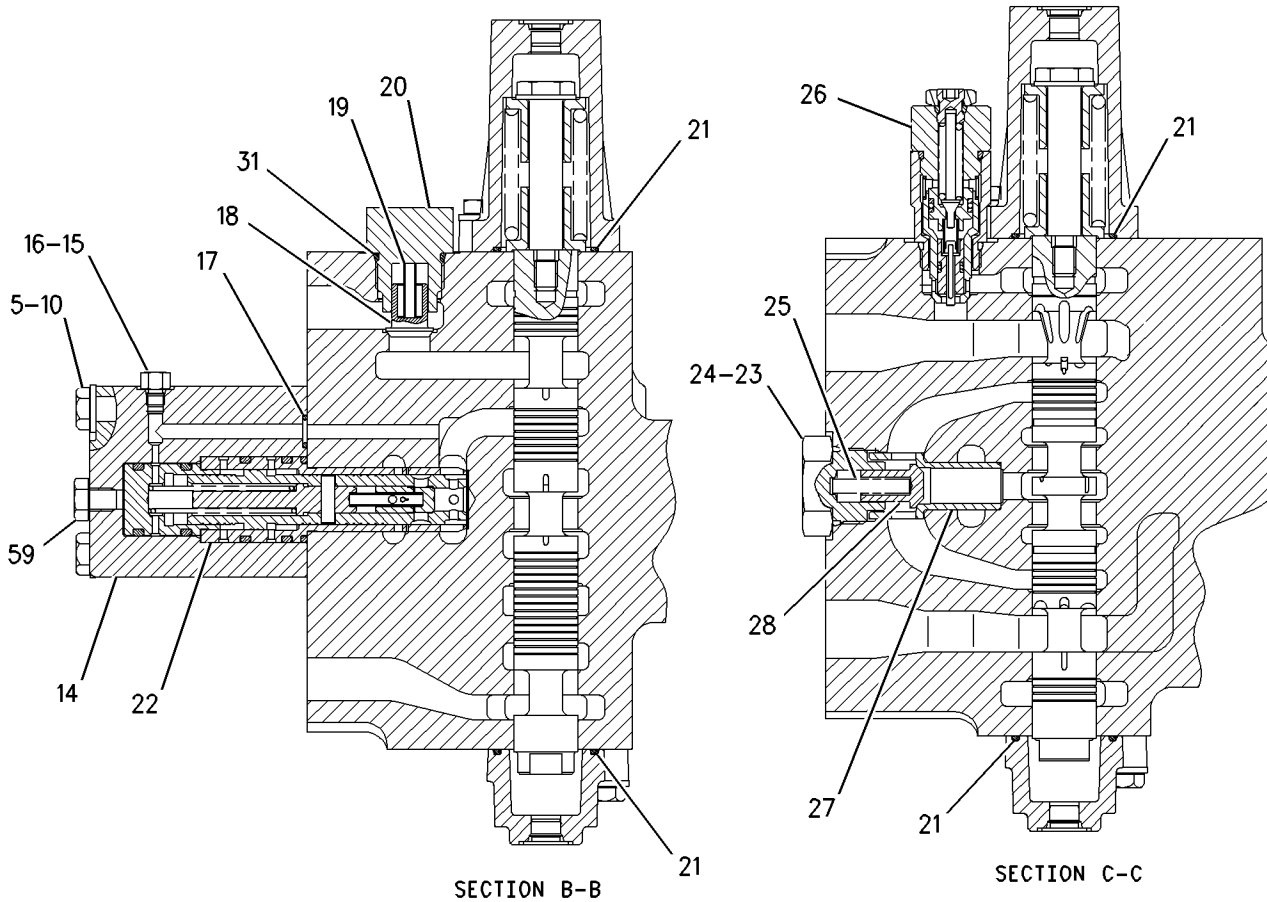
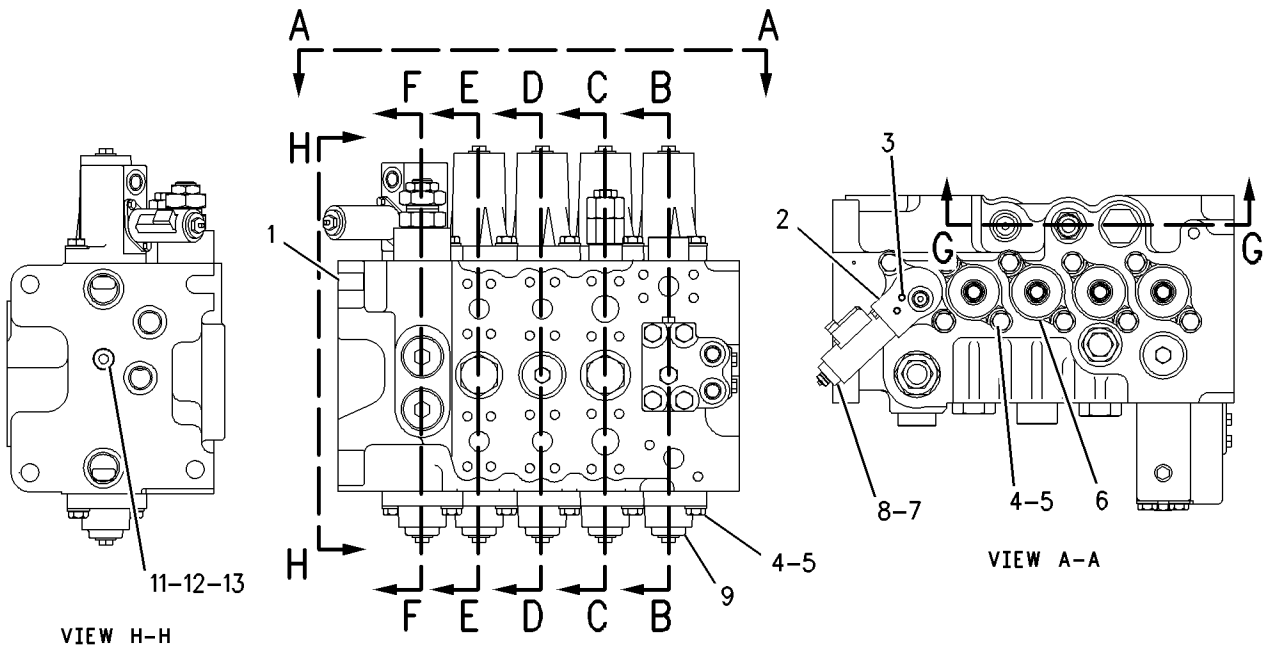
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	44	2	3D-2824	1	SEAL-O-RING						
	45	2	153-5293	1	SPRING						
	46	2	153-5292	1	VALVE						
	47	2	153-5288	1	SPRING						
	48	2	153-5289	1	GUIDE						
	49	2	153-5290	2	PLUG						
	50	2	153-5311	1	SPRING						
	51	2	158-8150	1	VALVE GP-CONTROL						
	52	2	3J-1907	1	SEAL-O-RING						
	53	2	123-2485	1	PLUG						
	54	2	6E-5731	1	VALVE						
	55	2	6E-5730	1	PLUG						
	56	2	7I-1248	1	SPRING						
	57	2	095-1575	1	SEAL-O-RING						
	58	2	095-1778	1	RING-BACKUP						
M	59	1	7X-2621	1	BOLT (M10X1.50X12MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

197-0187 VALVE GP-CONTROL (contd.)

101529859



REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

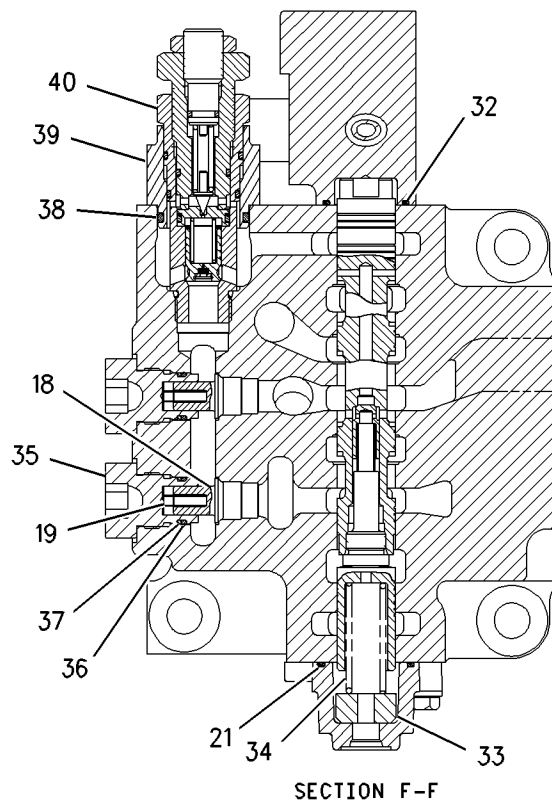
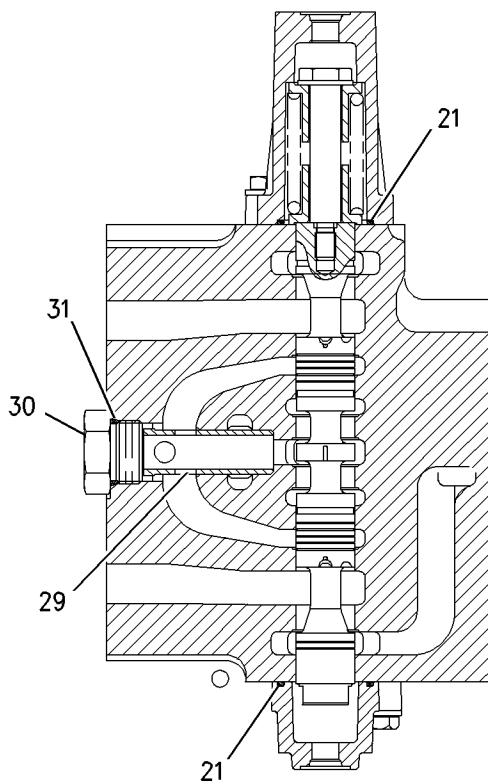
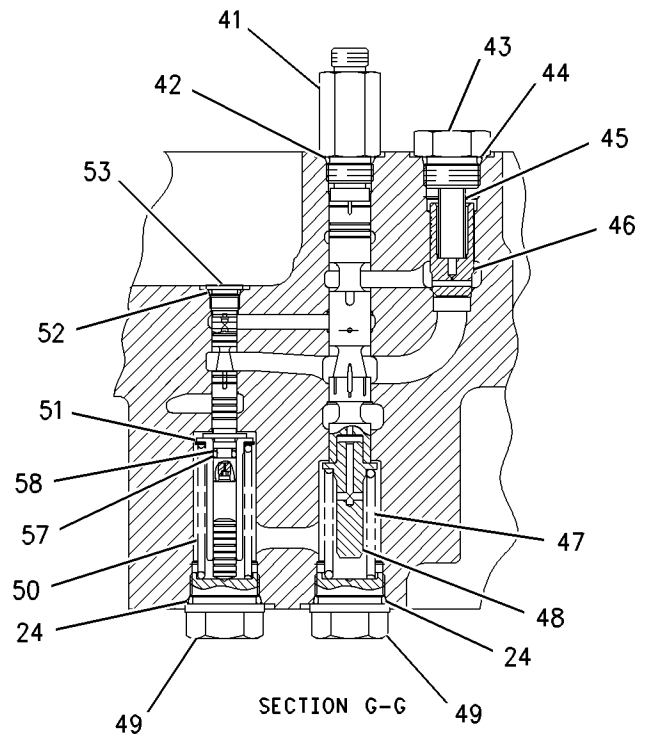
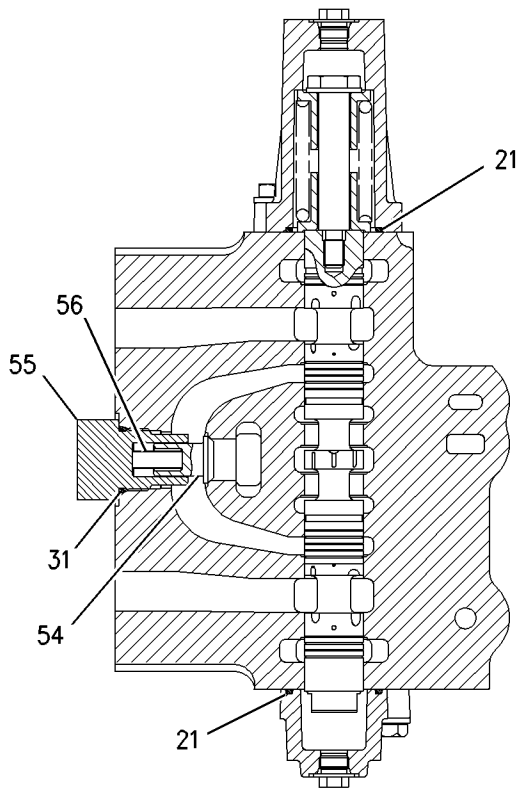
GRAPHIC #1

g00793118

HYDRAULIC SYSTEM

197-0187 VALVE GP-CONTROL (contd.)

i01529859



GRAPHIC #2

g00792442

HYDRAULIC SYSTEM

185-0490 VALVE GP-FLOW CONTROL & RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 190-7739 VALVE GP-CONTROL
ALSO AN ATTACHMENT

SMCS-5117, 5137

i01549118

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-0491	1	BLOCK						
Y	2	1	201-9352	1	VALVE GP-RELIEF						577
	3	1	165-9497	1	VALVE GP-FLOW CONTROL						
		1	185-0400	1	KIT-SEAL						
	4	1	9S-8006	2	PLUG						
	5	1	2M-9780	2	SEAL-O-RING						
	6	1	123-2423	1	FLANGE-TUBE						
	7	1	1P-3702	1	SEAL-RECTANGULAR						
M	8	1	096-3773	2	SCREW-MACHINE (M4X25MM)						

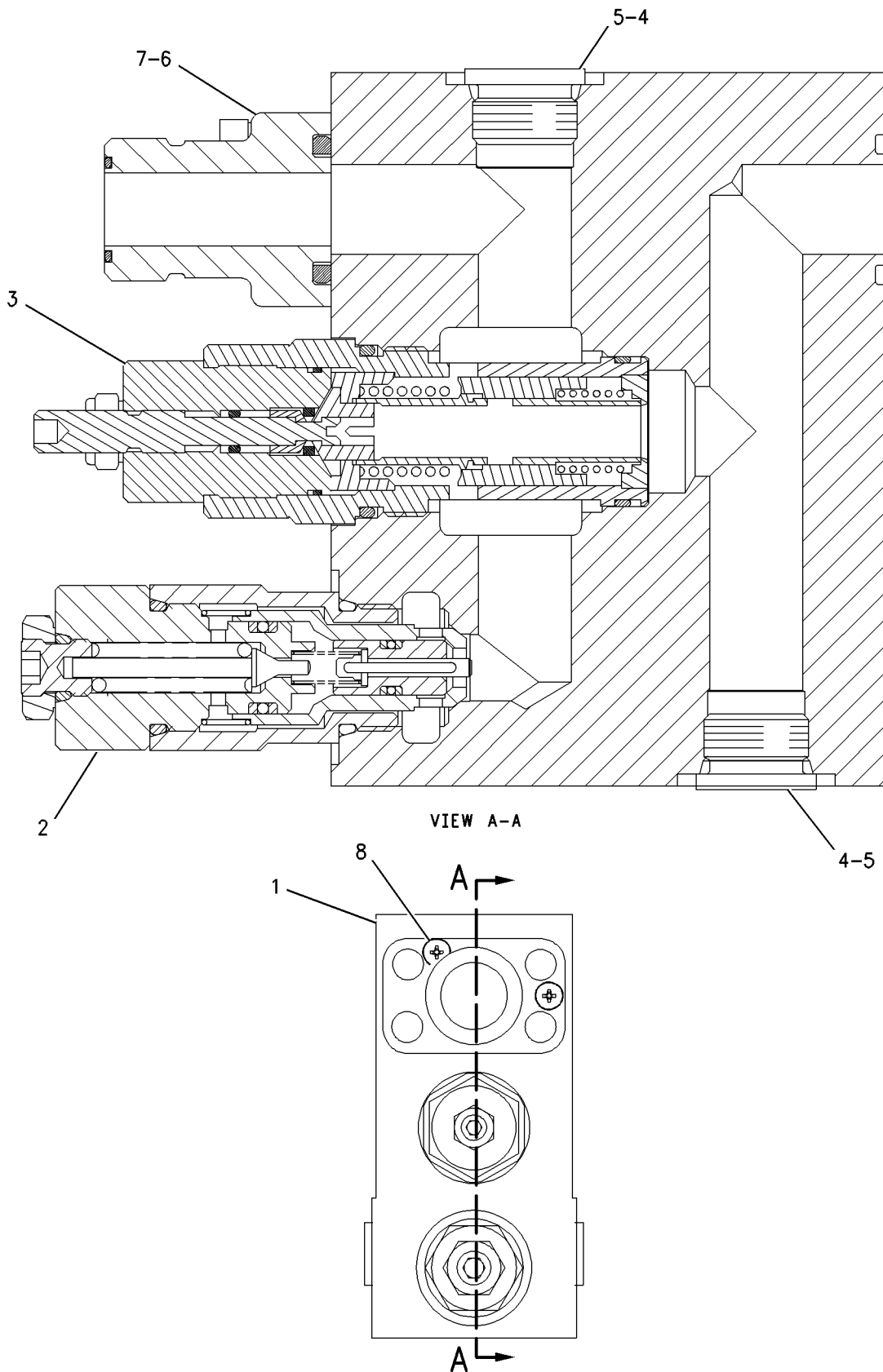
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

185-0490 VALVE GP - FLOW CONTROL & RELIEF (contd.)

i01549118



GRAPHIC #1

g00758464

HYDRAULIC SYSTEM

177-2700 VALVE GP-MAIN CONTROL

S/N: BPH1-UP; CAM1-UP

PART OF 186-3942, 196-3255 HYDRAULIC AR

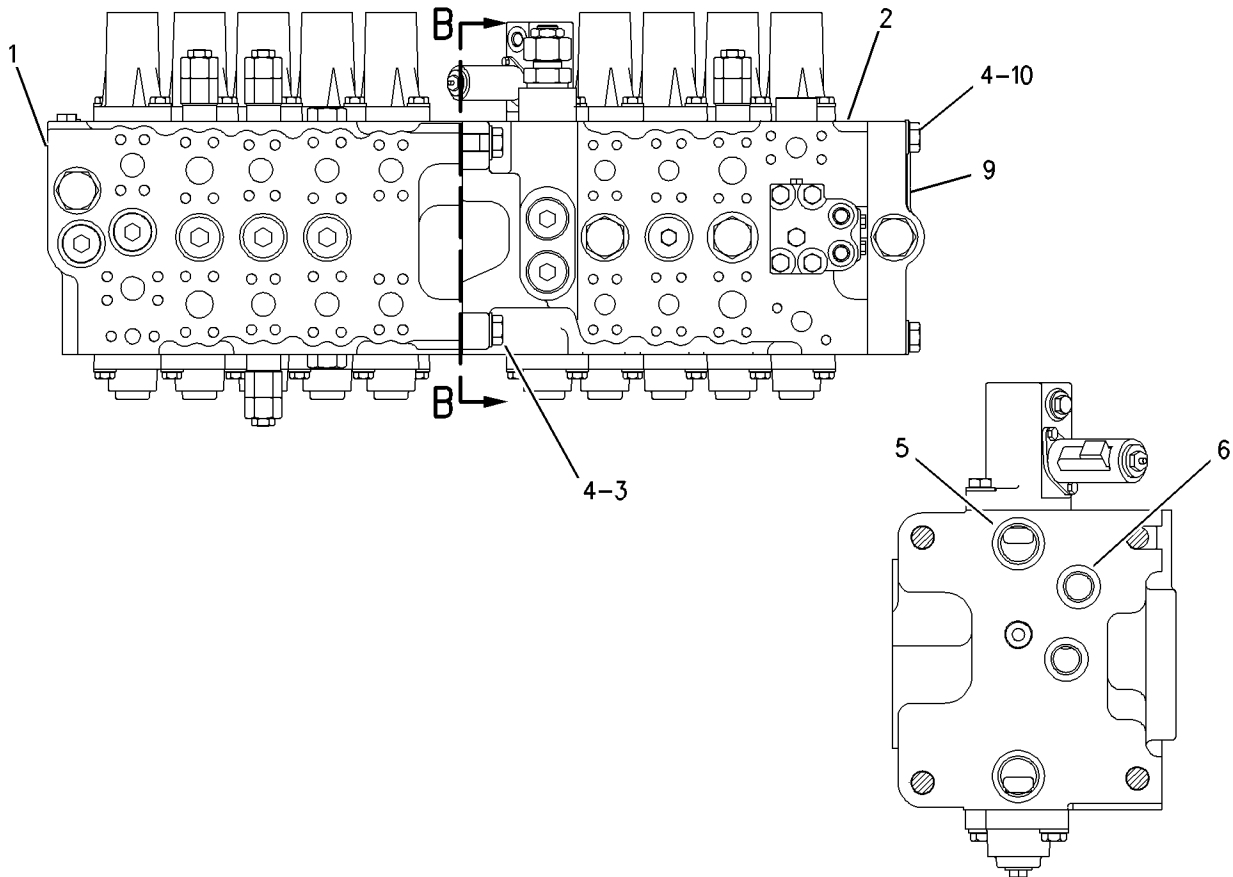
SMCS-5051

i01521191

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	177-2701	1	VALVE GP-CONTROL (MAIN (RIGHT))						516
Y	2	1	177-2702	1	VALVE GP-CONTROL						520
M	3	1	8T-4193	4	BOLT (M16X2X50MM)						
	4	1	9X-8257	9	WASHER (17.5X30X3.5MM THK)						
	5	1	4J-0519	2	SEAL-O-RING						
	6	1	1P-3702	2	SEAL-RECTANGULAR						
Y	9	1	153-5313	1	VALVE GP-RELIEF (NEG FLOW CONTROL)						569
M	10	1	8T-4140	5	BOLT (M16X2X60MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



SECTION B-B

GRAPHIC #1

g00714509

MEMORANDA

HYDRAULIC SYSTEM

158-8117 VALVE GP-PILOT-BOOM DRIFT REDUCTION

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4624, 187-7165 LINES GP-FRONT

SMCS-5059

i01520827

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	3K-0360	1	SEAL-O-RING	
	3	1	4I-8965	1	GUIDE	
	4	1	4J-7533	2	SEAL-O-RING	
	5	1	5I-8511	1	SPRING	
	6	1	087-5166	1	SPRING	
	7	1	095-1594	1	SEAL-O-RING	
	8	1	095-1789	1	RING	
Y	9	1	116-3600	1	VALVE GP-RELIEF	565
	10	1	118-4044	1	COVER	
	12	1	158-8118	1	VALVE GP-CONTROL	
	13	1	190-7865	1	CONNECTOR	
	14	1	3J-1907	2	SEAL-O-RING	
	15	1	6V-8397	1	SEAL-O-RING	
M	16	1	8T-4136	4	BOLT (M10X1.5X25MM)	
	17	1	9S-4191	1	PLUG-STRAIGHT THREAD	
	18	1	9S-8001	2	PLUG	
	19	1	9S-8005	1	PLUG	

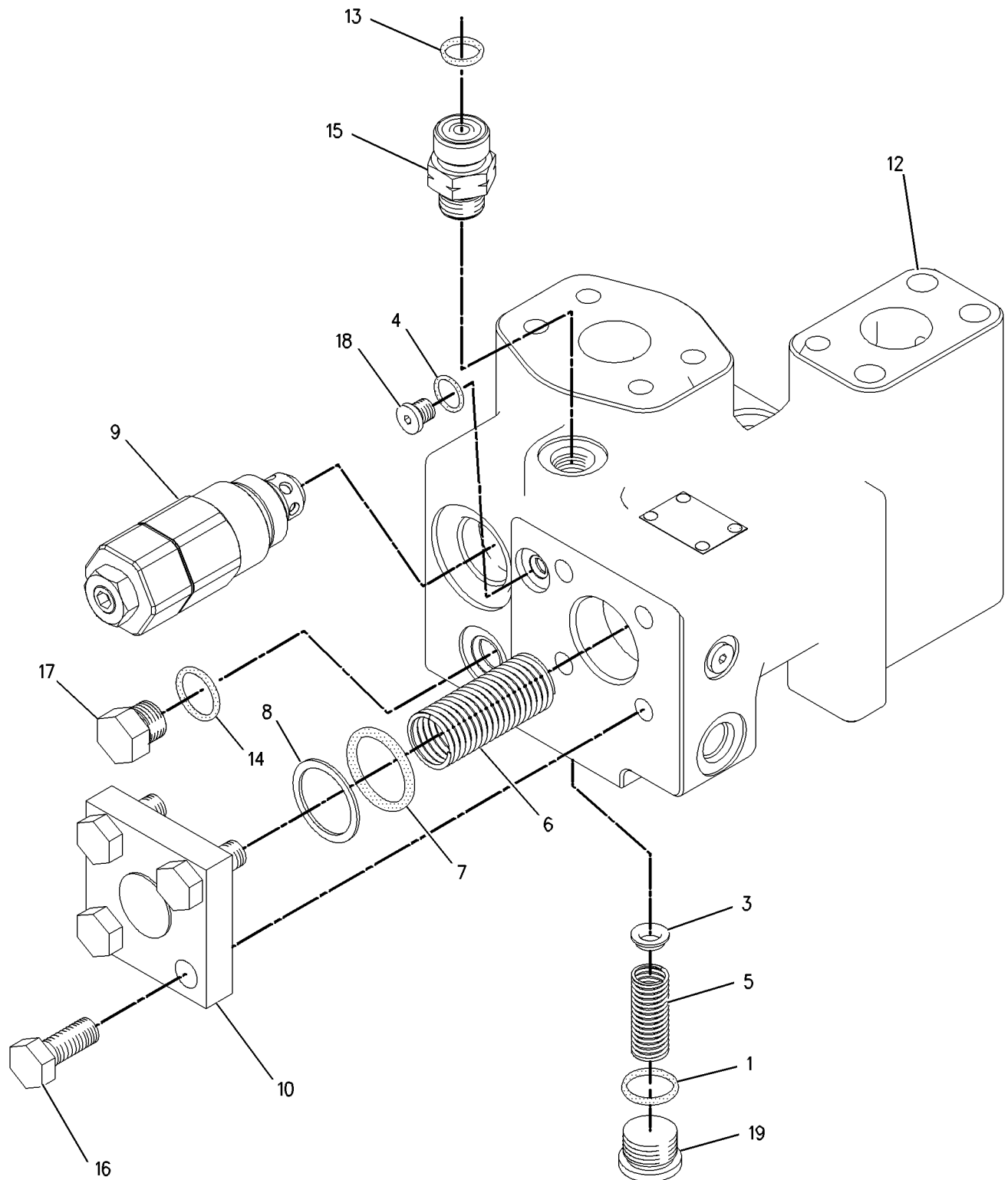
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

158-8117 VALVE GP-PILOT (contd.)

i01520827



GRAPHIC #1

g00792148

HYDRAULIC SYSTEM

158-8160 VALVE GP-PILOT-STICK DRIFT REDUCTION

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 176-4624, 187-7165 LINES GP-FRONT

SMCS-5059

i01520839

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	158-8161	1	VALVE GP-CONTROL	
M	4	1	8T-4136	4	BOLT (M10X1.5X25MM)	
	5	1	9S-8001	2	PLUG	
	6	1	118-4044	1	COVER	
	7	1	095-1789	1	RING	
	8	1	095-1594	1	SEAL-O-RING	
	9	1	087-5166	1	SPRING	
	10	1	9S-8005	1	PLUG	
	11	1	3J-1907	1	SEAL-O-RING	
	12	1	4I-8965	1	GUIDE	
	13	1	5I-8511	1	SPRING	
	14	1	3K-0360	1	SEAL-O-RING	
Y	15	1	116-3600	1	VALVE GP-RELIEF	565
	16	1	147-4184	1	PLUG	
	17	1	4J-7533	2	SEAL-O-RING	
	18	1	9S-8004	1	PLUG	

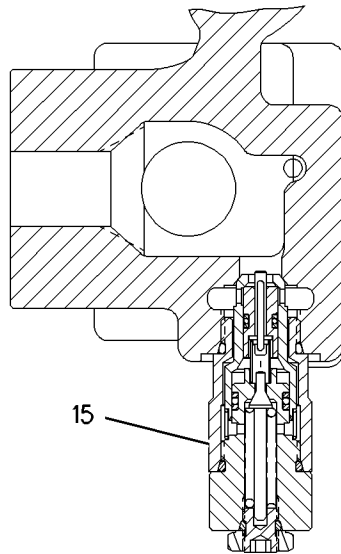
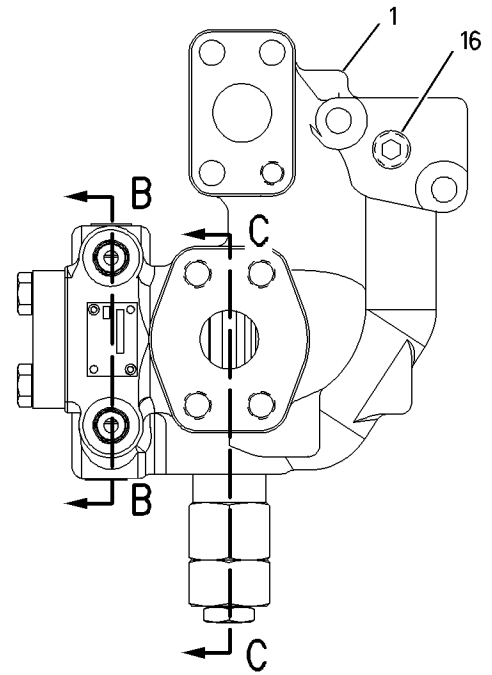
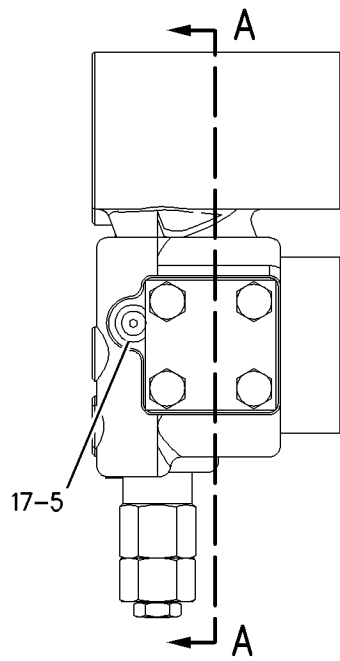
M-METRIC PART

Y-SEPARATE ILLUSTRATION

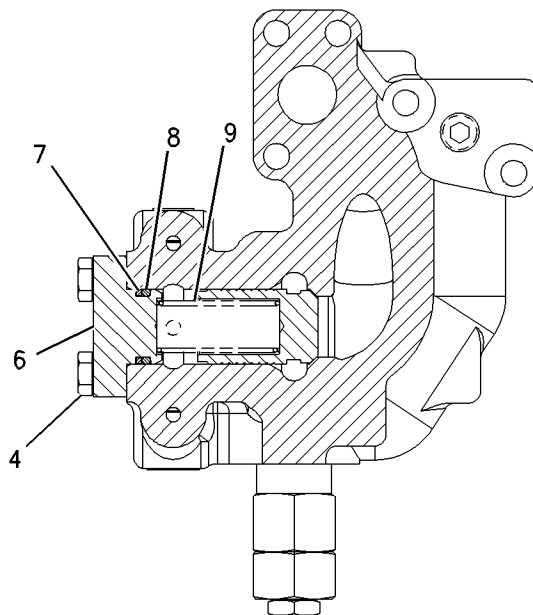
HYDRAULIC SYSTEM

158-8160 VALVE GP-PILOT (contd.)

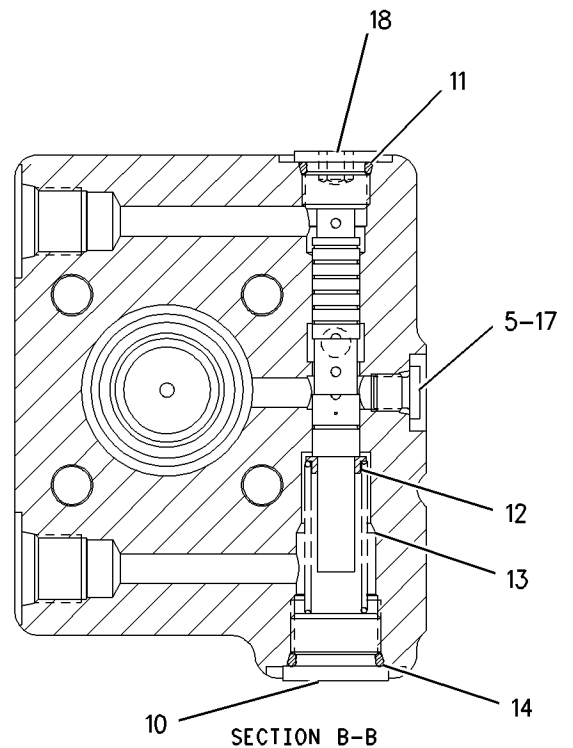
i01520839



SECTION C-C



SECTION A-A



SECTION B-B

GRAPHIC #1

g00675671

HYDRAULIC SYSTEM

158-8250 VALVE GP-PILOT-TRAVEL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7159, 187-7163 LINES GP-PILOT

SMCS-5059

i01363438

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	087-4707	4	SPRING						
	2	1	131-5818	4	SPRING						
	3	1	099-6136	8	WASHER						
	4	1	095-0936	4	RING-RETAINING						
	5	1	126-1865	4	SPRING						
	6	1	126-1866	4	SPRING						
	7	1	147-4221	4	SPOOL-VALVE						
	8	1	6V-8400	4	SEAL-O-RING (29.9MM ID)						
	9	1	165-9554	4	PLUG						
	10	1	119-5389	4	PACKING						
	11	1	165-9552	4	PUSHROD						
M	12	1	087-4710	4	SETSCREW						
M	13	1	8T-4133	4	NUT (M10X1.50 THD)						
	14	1	087-5709	2	BELLOWS						
	15	1	087-5708	2	PEDAL						
M	16	1	8T-0343	2	BOLT-SOCKET HEAD						
	17	1	119-5388	4	CAP						
	18	1	165-9463	2	COVER						
	19	1	119-5391	4	SEAT						
	20	1	119-5392	4	BUSHING						
	21	1	153-5223	12	BALL						
	22	1	165-9551	4	SEAT						
	23	1	099-6137	4	WASHER						
	24	1	099-6141	4	WASHER						
	25	1	165-9462	1	BODY AS						
Z	25A	1		4	SPOOL						
	26	1	099-6145	2	CAMSHAFT						
	27	1	099-6144	4	BUSHING-TERMINAL						
M	28	1	095-1260	2	SETSCREW-SOCKET (M6X1.0X6MM)						
	29	1	8T-6759	6	PLUG-PIPE (1/16-27 THD)						
	30	1	9M-5590	2	BALL						
	31	1	107-6479	2	PLUG						
	32	1	095-1578	2	SEAL-O-RING (9.80MM ID)						
	33	1	165-9464	2	SEAT						
	34	1	165-9553	1	COVER						
M	35	1	8T-1158	2	BOLT-SOCKET HEAD (M8X1.25X20MM)						

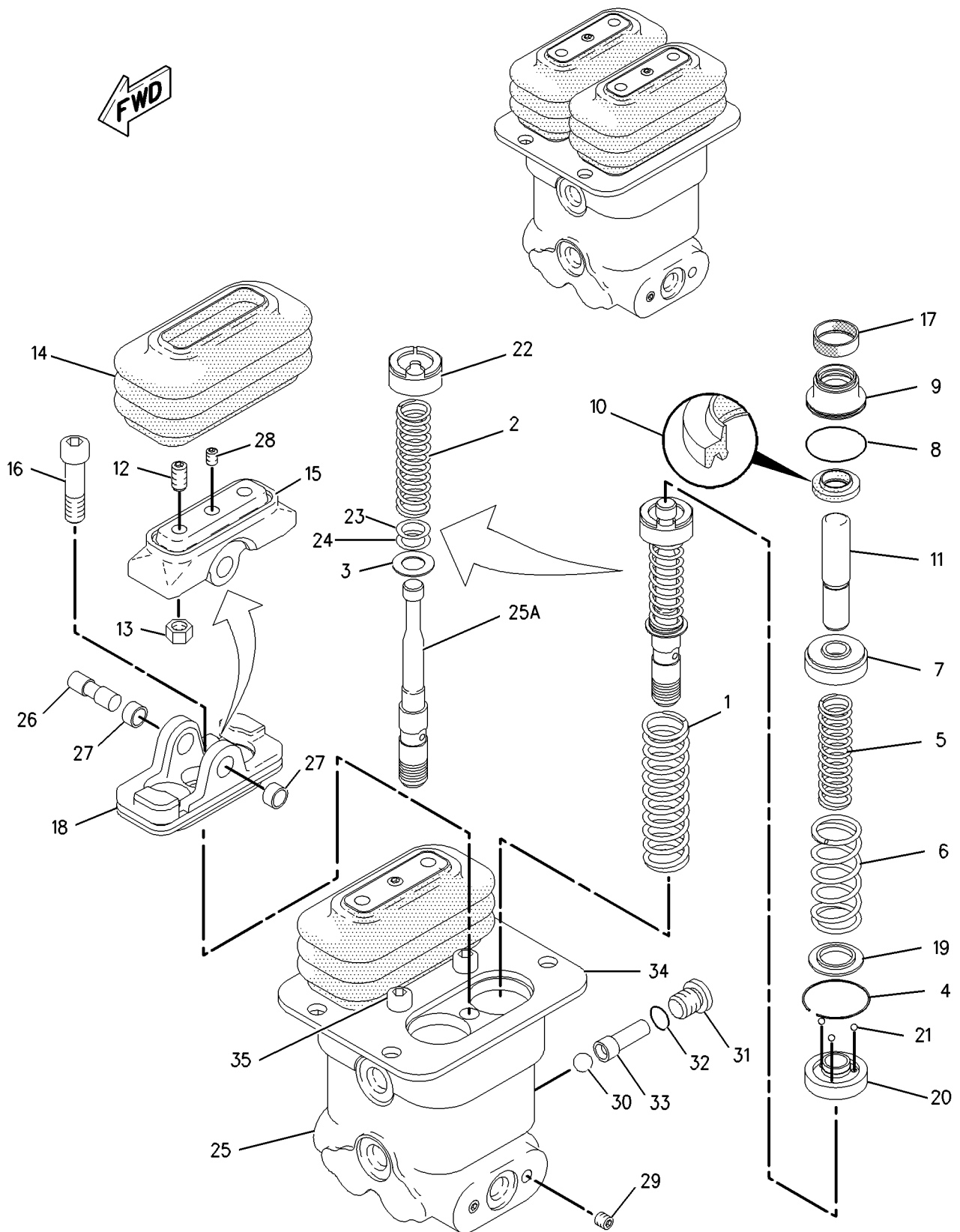
M-METRIC PART

Z-NOT SERVICED SEPARATELY

HYDRAULIC SYSTEM

158-8250 VALVE GP-PILOT (contd.)

i01363438



GRAPHIC #1

g00711448

HYDRAULIC SYSTEM

158-8251 VALVE GP-PILOT-OIL MANIFOLD

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7160, 187-7164, 206-9387 LINES GP-PILOT
ALSO AN ATTACHMENT

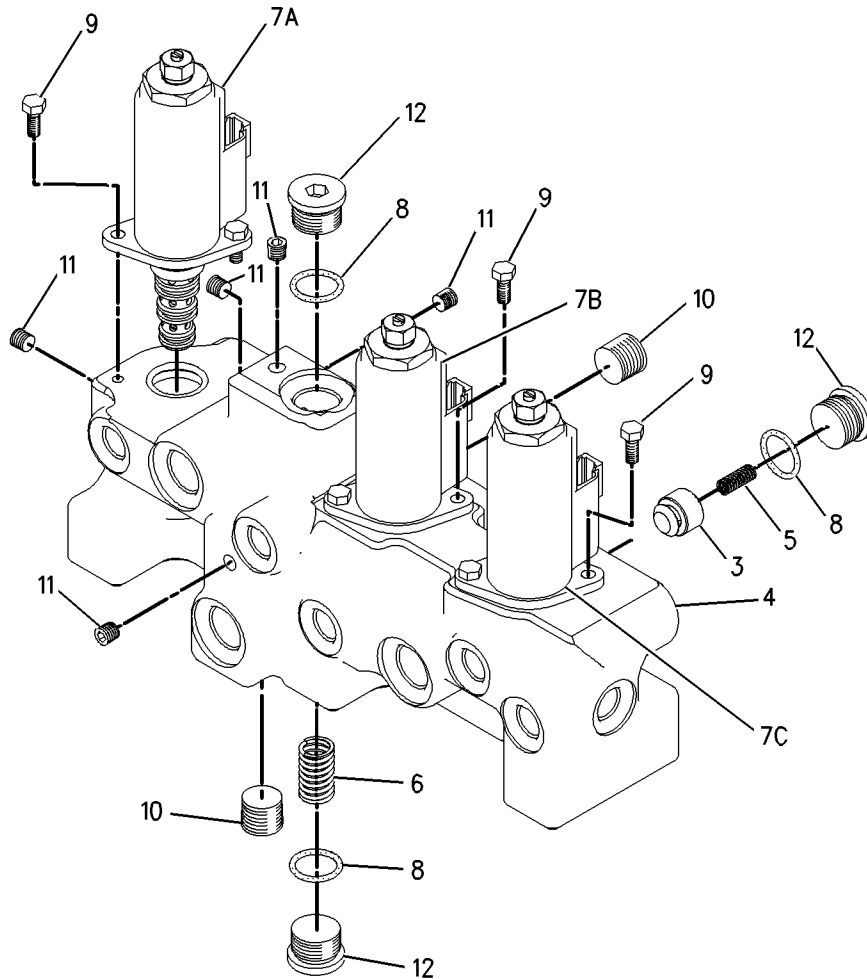
SMCS-5059

i01521204

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	3	1	197-0196	1	VALVE						
	4	1	197-0198	1	VALVE GP-CONTROL						
	5	1	197-0199	1	SPRING						
	6	1	197-0273	1	SPRING						
Y	7A	1	121-1491	1	VALVE GP-SOLENOID (HYDRAULIC ACTIVATION)						585
Y	7B	1	121-1491	1	VALVE GP-SOLENOID (SWING PARKING BRAKE)						585
Y	7C	1	121-1491	1	VALVE GP-SOLENOID (TRAVEL SPEED)						585
	8	1	3K-0360	3	SEAL-O-RING						
M	9	1	7I-2272	6	BOLT (M5X0.8X12MM)						
	10	1	7M-7410	2	PLUG (3/8-18 NPTF)						
	11	1	8T-6759	6	PLUG-PIPE						
	12	1	9S-8005	3	PLUG						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00791227

MEMORANDA

HYDRAULIC SYSTEM

165-9569 VALVE GP-PILOT-JOYSTICK

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-9973, 187-9974 VALVE GP-PILOT

SMCS-5059

i01517662

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	165-9431	1	PLATE						
	2	1	4I-6365	1	JOINT						
	3	1	118-4087	4	SPRING						
	4	1	165-9444	2	SEAT-SPRING						
	5	1	096-1628	4	PLUG						
	6	1	165-9436	2	SEAT						
	7	1	165-9460	2	SPRING						
B	8	1	165-9461	4	SPRING						
	9	1	165-9439	1	BUSHING						
	10	1	165-9448	1	SEAL-O-RING						
	11	1	168-0794	1	PLATE						
	12	1	096-4498	2	WASHER-SEAL						
M	13	1	6V-8337	2	BOLT-SOCKET HEAD (M8X1.25X35MM)						
	14	1	171-0087	1	BOOT						
	15	1	5B-9304	2	SCREW-DRIVE						
	16	1	7Y-0468	1	PIN-SPRING						
B	18	1	099-6137	4	WASHER						
	19	1	165-9442	2	SPRING						
	20	1	165-9435	2	SEAT						
	21	1	095-1586	4	SEAL-O-RING						
	22	1	165-9443	2	SEAT-SPRING						
	23	1	165-9438	1	PLATE						
	24	1	118-4086	4	ROD						
	25	1	131-5915	1	NUT						
	26	1	094-0876	4	SEAL						
B	27	1	190-7750	4	SPRING						
B	28	1	190-7751	4	SPRING						

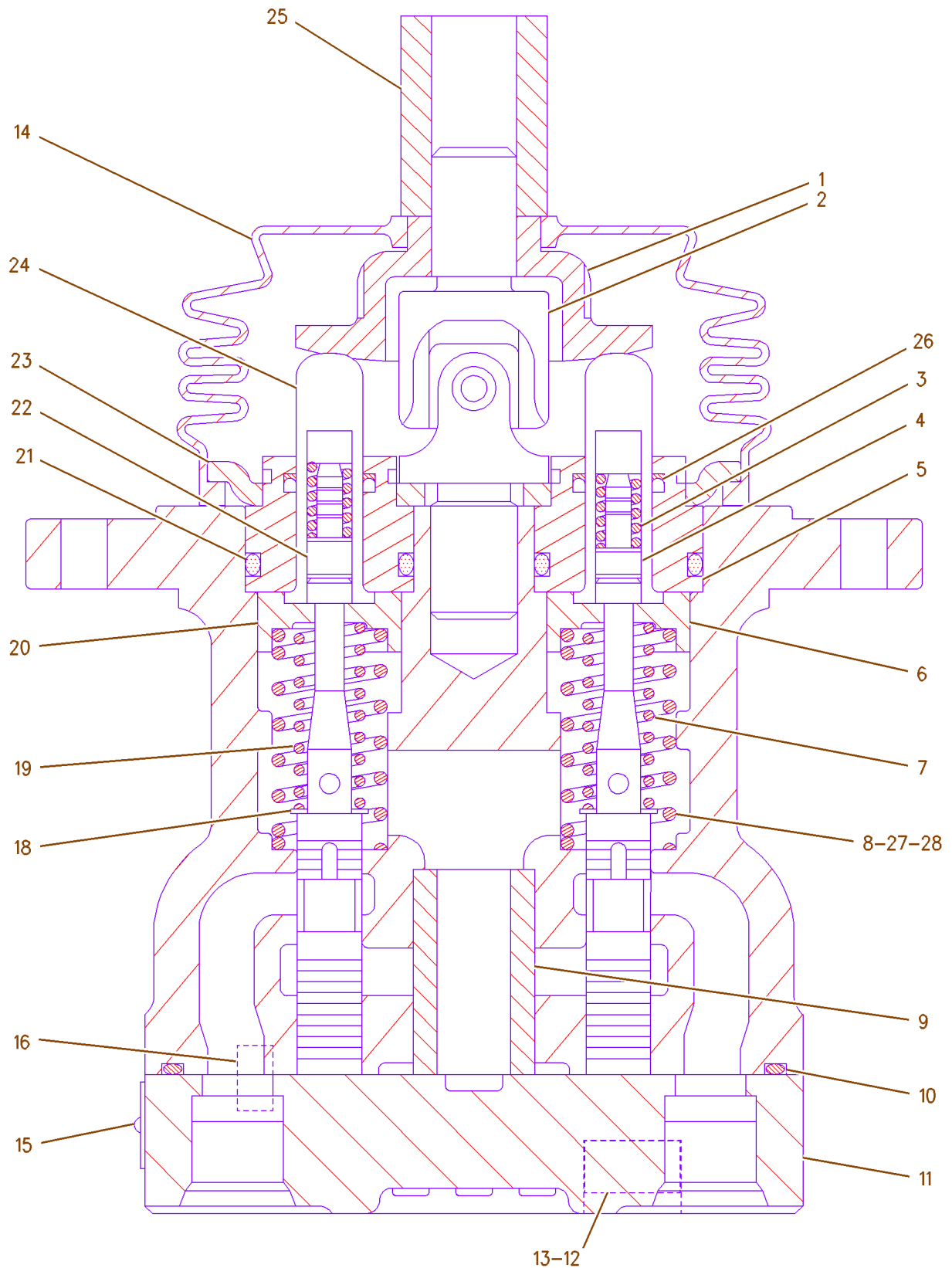
B-USE AS REQUIRED

M-METRIC PART

HYDRAULIC SYSTEM

165-9569 VALVE GP-PILOT (contd.)

i01517662



GRAPHIC #1

g00787960

HYDRAULIC SYSTEM

171-0188 VALVE GP-PILOT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7166 LINES GP-PILOT

ALSO AN ATTACHMENT

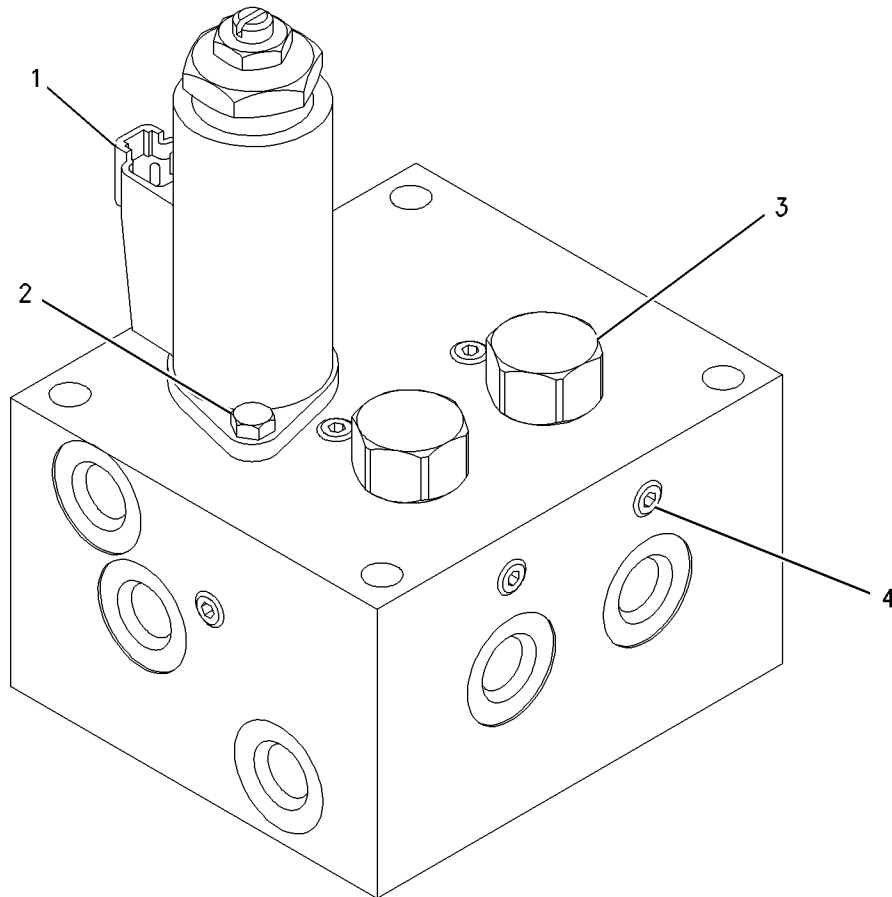
SMCS-5059

i01460768

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	111-9916	1	VALVE GP-SOLENOID						581
M	2	1	8T-0288	2	BOLT (M5X0.8X12MM)						
	3	1	171-0198	2	VALVE GP-SHUTTLE						
		1	185-0407	1	KIT-SEAL						
	4	1	7I-8084	6	PLUG						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00681111

HYDRAULIC SYSTEM

185-0512 VALVE GP-PILOT

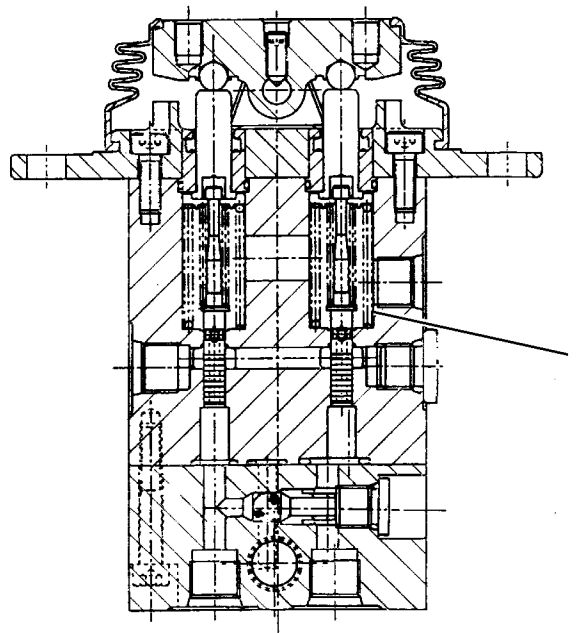
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 206-5120 CONTROL GP-HYDRAULIC, 187-7163 LINES GP-PILOT
ALSO AN ATTACHMENT

SMCS-5059

i01469452

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	190-7819	2	SPRING						



GRAPHIC #1

g00766922

HYDRAULIC SYSTEM

187-9973 VALVE GP-PILOT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

LH. FORESTRY LEVER

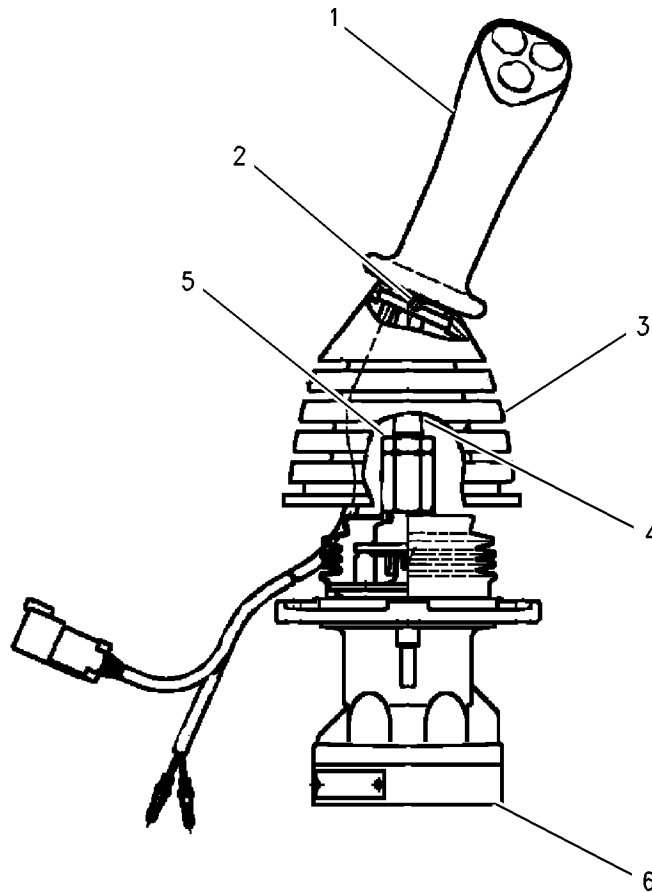
PART OF 187-7159, 187-7163 LINES GP-PILOT

SMCS-5059

i01513310

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-9975	1	KNOB AS						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)						
	2	1	139-0922	1	PIN-SPRING						
	3	1	187-9908	1	BOOT						
	4	1	149-1572	1	LEVER						
M	5	1	7Y-8463	1	NUT (M14)						
Y	6	1	165-9569	1	VALVE GP-PILOT						550

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00733987

HYDRAULIC SYSTEM

187-9974 VALVE GP-PILOT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

RH. FORESTRY LEVER

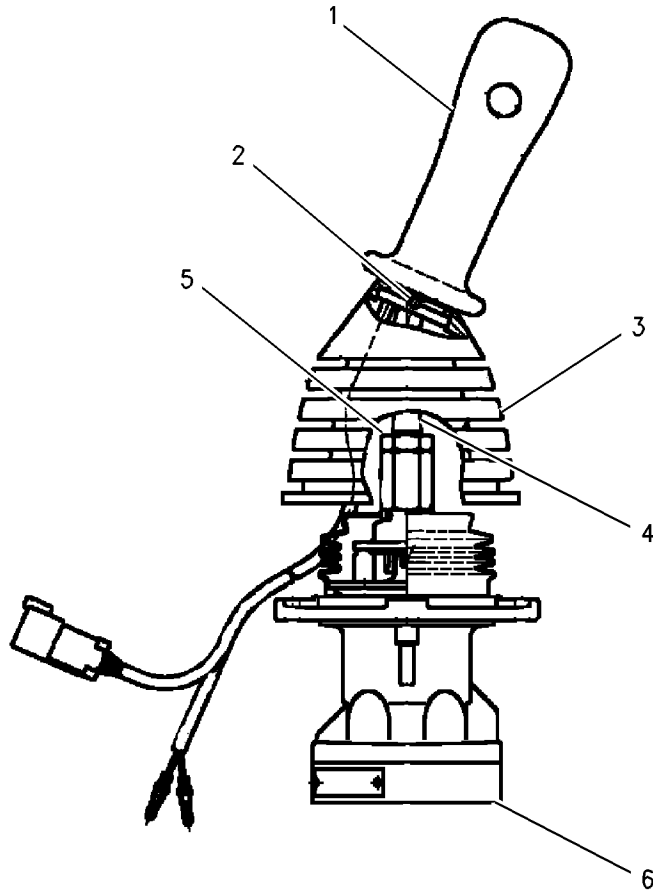
PART OF 187-7159, 187-7163 LINES GP-PILOT

SMCS-5059

i01513330

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-9975	1	KNOB AS						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN)						
	2	1	139-0922	1	PIN-SPRING						
	3	1	187-9908	1	BOOT						
	4	1	149-1571	1	LEVER						
M	5	1	7Y-8463	1	NUT (M14)						
Y	6	1	165-9569	1	VALVE GP-PILOT						550

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00733979

HYDRAULIC SYSTEM

190-7753 VALVE GP-PILOT

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 190-7752 VALVE GP-CHECK & RELIEF
AN ATTACHMENT

SMCS-5059

i01458899

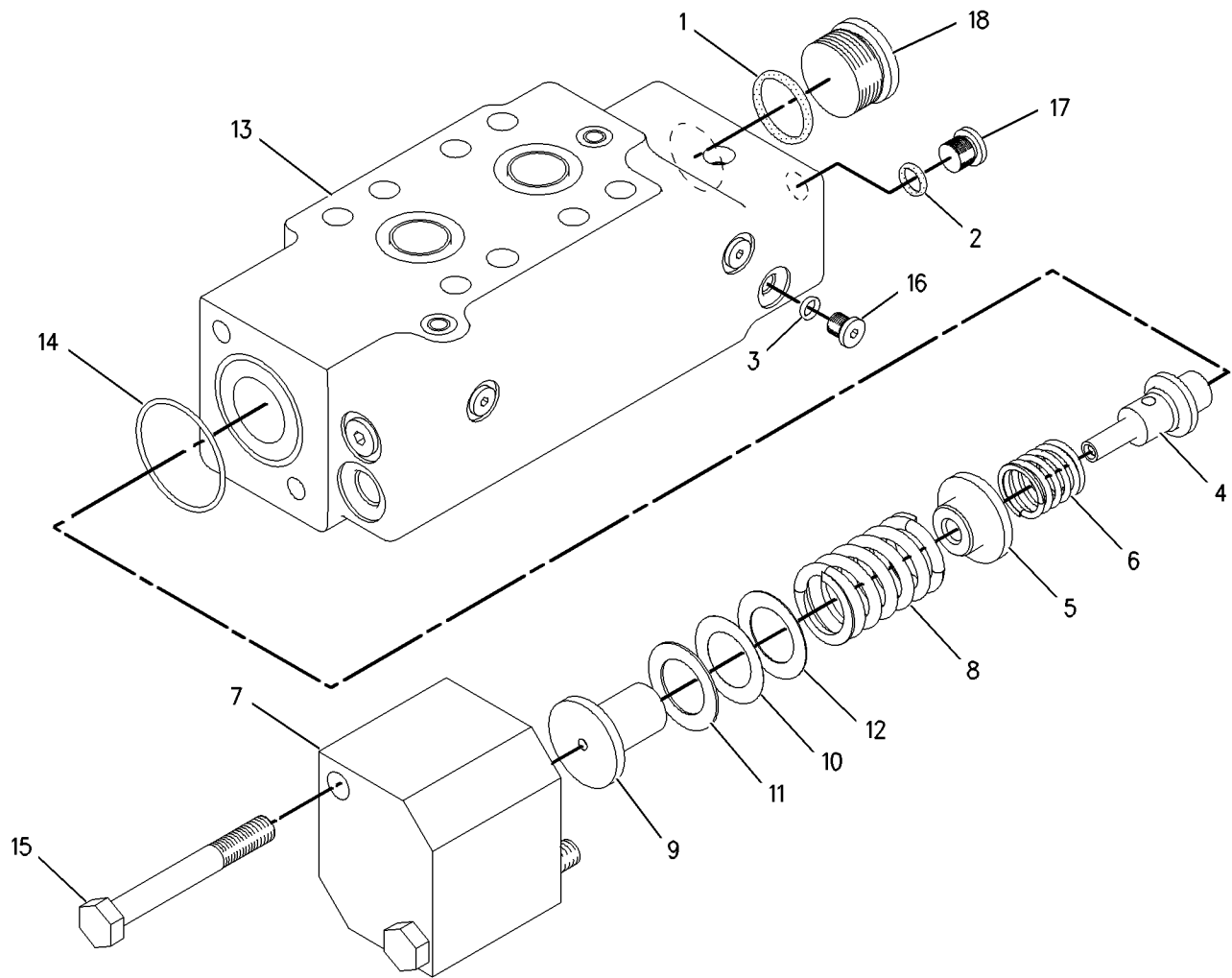
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3D-2824	1	SEAL-O-RING						
	2	1	3J-7354	3	SEAL-O-RING						
	3	1	4J-7533	7	SEAL-O-RING						
	4	1	171-0108	1	GUIDE						
	5	1	171-0109	1	GUIDE						
	6	1	171-0110	1	SPRING						
	7	1	185-0393	1	COVER						
	8	1	185-0394	1	SPRING						
	9	1	185-0395	1	GUIDE						
B	10	1	185-0401	1	SHIM (1MM THK)						
B	11	1	185-0402	1	SHIM (.5MM THK)						
B	12	1	185-0403	1	SHIM (.1MM THK)						
	13	1	190-7754	1	VALVE GP-CONTROL						
	14	1	5K-6526	1	SEAL-O-RING						
M	15	1	8T-4172	2	BOLT (M10X1.50X80MM)						
	16	1	9S-8001	7	PLUG						
	17	1	9S-8002	3	PLUG-O-RING						
	18	1	9S-8008	1	PLUG-O-RING						

B-USE AS REQUIRED
M-METRIC PART

HYDRAULIC SYSTEM

190-7753 VALVE GP-PILOT (contd.)

i01458899



GRAPHIC #1

g00762631

HYDRAULIC SYSTEM

190-7757 VALVE GP-PILOT

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 190-7756 VALVE GP-CHECK & RELIEF
AN ATTACHMENT

SMCS-5059

i01458921

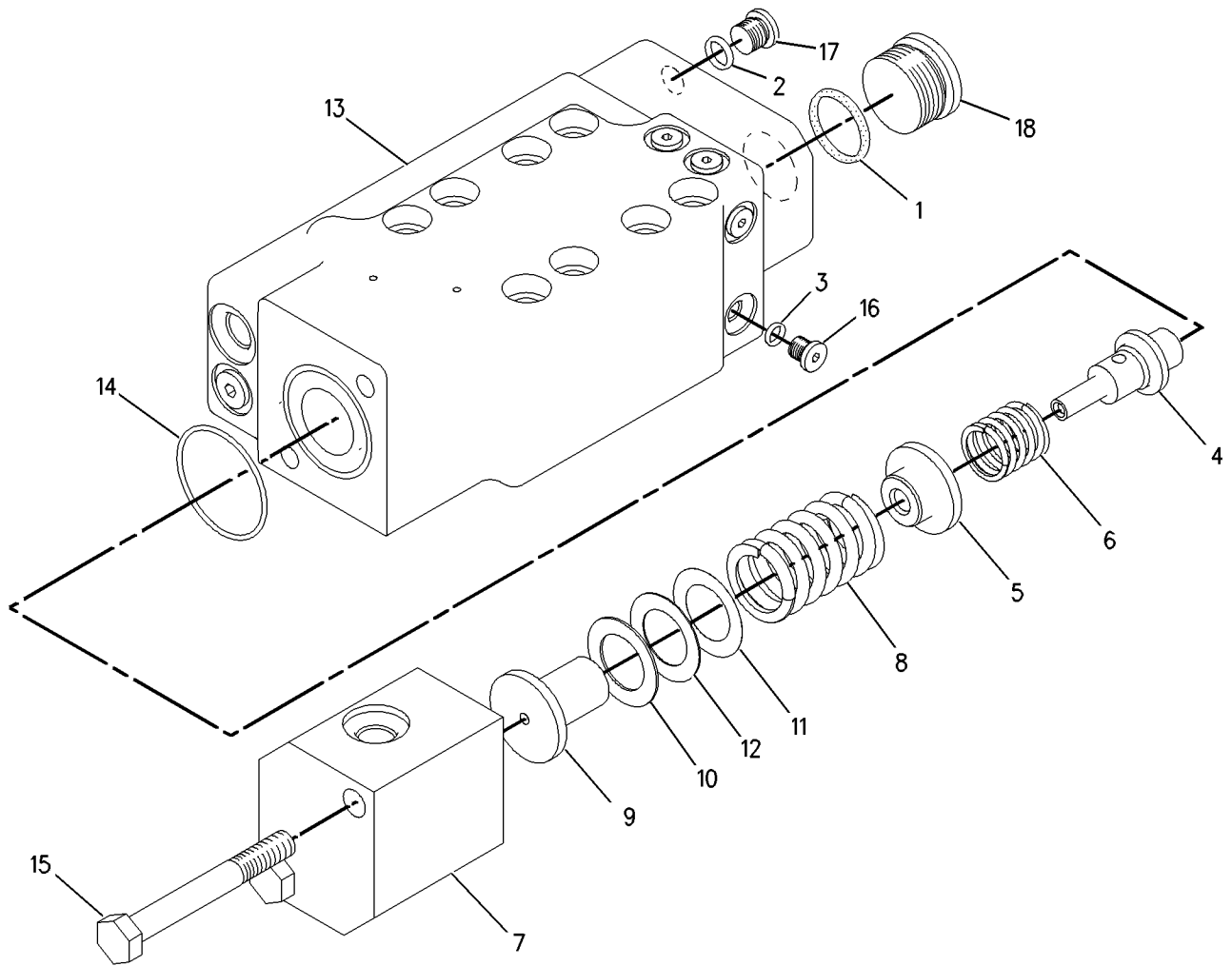
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3D-2824	1	SEAL-O-RING						
	2	1	3J-7354	3	SEAL-O-RING						
	3	1	4J-7533	7	SEAL-O-RING						
	4	1	171-0108	1	GUIDE						
	5	1	171-0109	1	GUIDE						
	6	1	171-0110	1	SPRING						
	7	1	185-0393	1	COVER						
	8	1	185-0394	1	SPRING						
	9	1	185-0395	1	GUIDE						
B	10	1	185-0401	1	SHIM (1MM THK)						
B	11	1	185-0402	1	SHIM (.5MM THK)						
B	12	1	185-0403	1	SHIM (.1MM THK)						
	13	1	190-7758	1	VALVE GP-CONTROL						
	14	1	5K-6526	1	SEAL-O-RING						
M	15	1	8T-4172	2	BOLT (M10X1.50X80MM)						
	16	1	9S-8001	7	PLUG						
	17	1	9S-8002	3	PLUG-O-RING						
	18	1	9S-8008	1	PLUG-O-RING						

B-USE AS REQUIRED
M-METRIC PART

HYDRAULIC SYSTEM

190-7757 VALVE GP-PILOT (contd.)

i01458921



GRAPHIC #1

g00762731

HYDRAULIC SYSTEM

201-9353 VALVE GP-PILOT RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 201-9352 VALVE GP-RELIEF
ALSO AN ATTACHMENT

SMCS-5072

i01549161

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	103-8252	2	RING						
	103-8253	2	RING						
	3D-2824	2	SEAL-O-RING						
	095-1578	1	SEAL-O-RING						
	103-8254	1	SEAL-O-RING						
	103-8255	1	SEAL-O-RING						

HYDRAULIC SYSTEM

158-8274 VALVE GP-PRESSURE REDUCING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7160, 187-7164, 206-9387 LINES GP-PILOT

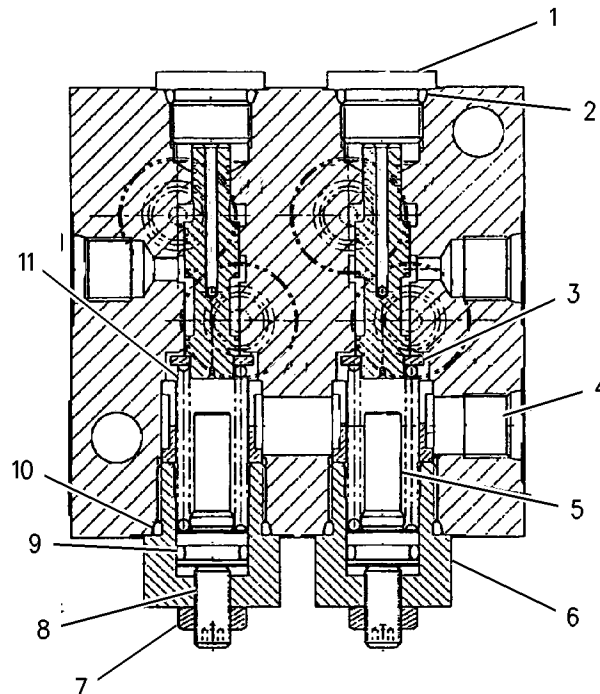
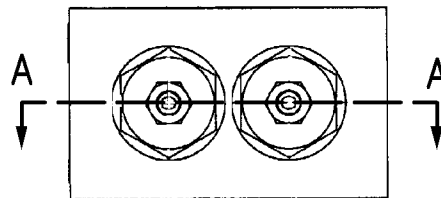
ALSO AN ATTACHMENT

SMCS-5117

i01407683

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-9998	2	PLUG						
	2	1	095-1582	2	SEAL-O-RING (13.8MM ID)						
	3	1	171-0127	2	SEAT-SPRING						
	4	1	185-0423	2	STOP						
	5	1	171-0126	2	SEAT-SPRING						
	6	1	171-0123	2	PLUG						
M	7	1	5C-7261	2	NUT (M8X1.25 THD)						
M	8	1	171-0124	2	SETSCREW						
	9	1	095-1580	2	SEAL-O-RING (11.80MM ID)						
	10	1	095-1590	2	SEAL-O-RING (21.80MM ID)						
	11	1	171-0128	2	SPRING						

M-METRIC PART



GRAPHIC #1

g00732512

HYDRAULIC SYSTEM

105-1321 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PILOT OPERATED

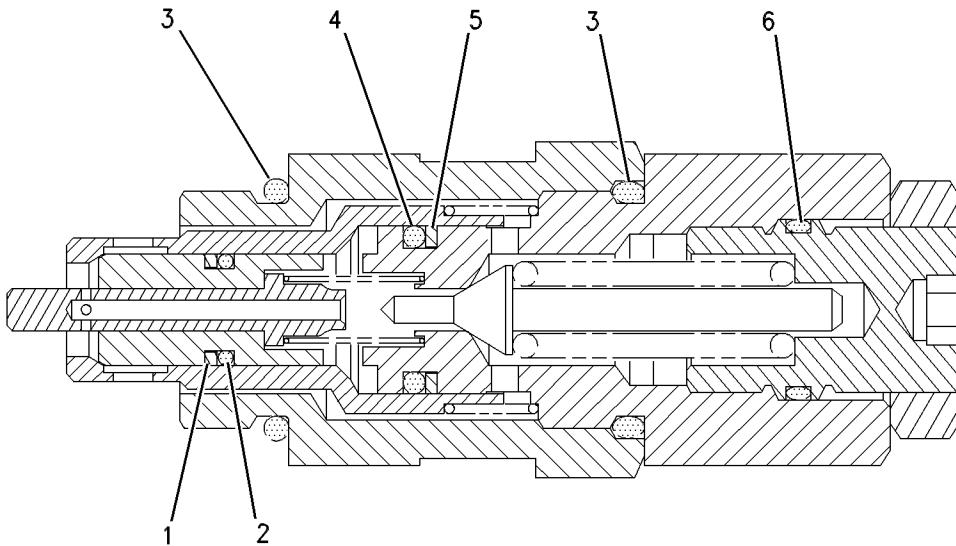
PART OF 201-9352 VALVE GP-RELIEF

ALSO AN ATTACHMENT

SMCS-5069

i00914177

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	030-0167	1	RING-BACKUP						
	2	1	8L-2779	1	SEAL-O-RING (9.25MM ID)						
	3	1	033-6036	2	SEAL-O-RING (23.47MM ID)						
	4	1	3P-0647	1	SEAL-O-RING (13.94MM ID)						
	5	1	9J-0707	1	RING-BACKUP						
	6	1	8T-7877	1	SEAL-O-RING (17.4MM ID)						



GRAPHIC #1

g00466894

HYDRAULIC SYSTEM

109-2667 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

DIRECT OPERATED

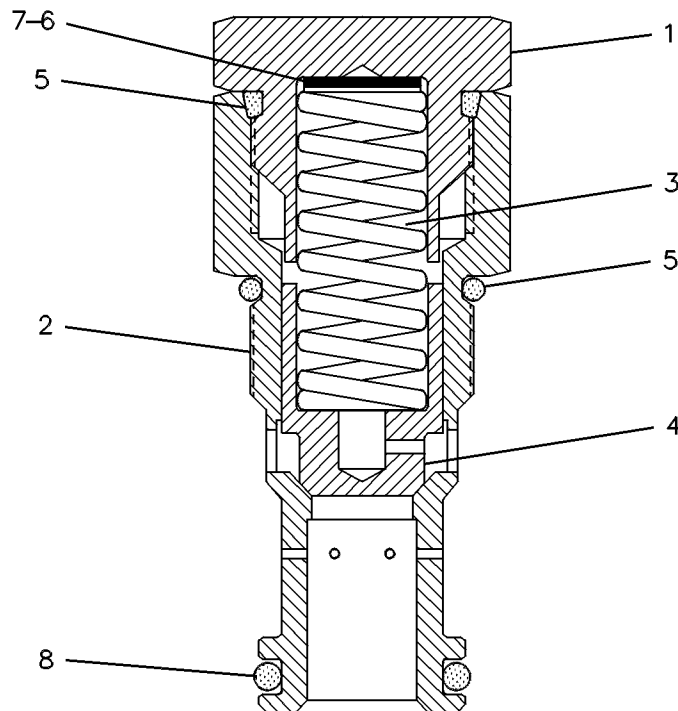
PART OF 153-5313 VALVE GP-RELIEF

SMCS-5069

i01351398

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5I-4111	1	PLUG-STRAIGHT THREAD						
	2	1	109-2665	1	BODY-VALVE						
	3	1	107-6370	1	SPRING						
	4	1	107-6371	1	VALVE						
	5	1	4K-1388	2	SEAL-O-RING (26.59MM ID)						
B	6	1	4J-7385	1	SHIM (.048IN THK)						
B	7	1	4J-7386	5	SHIM (.010IN THK)						
	8	1	5P-3108	1	SEAL-O-RING (20.30MM ID)						

B-USE AS REQUIRED



GRAPHIC #1

g00242585

HYDRAULIC SYSTEM

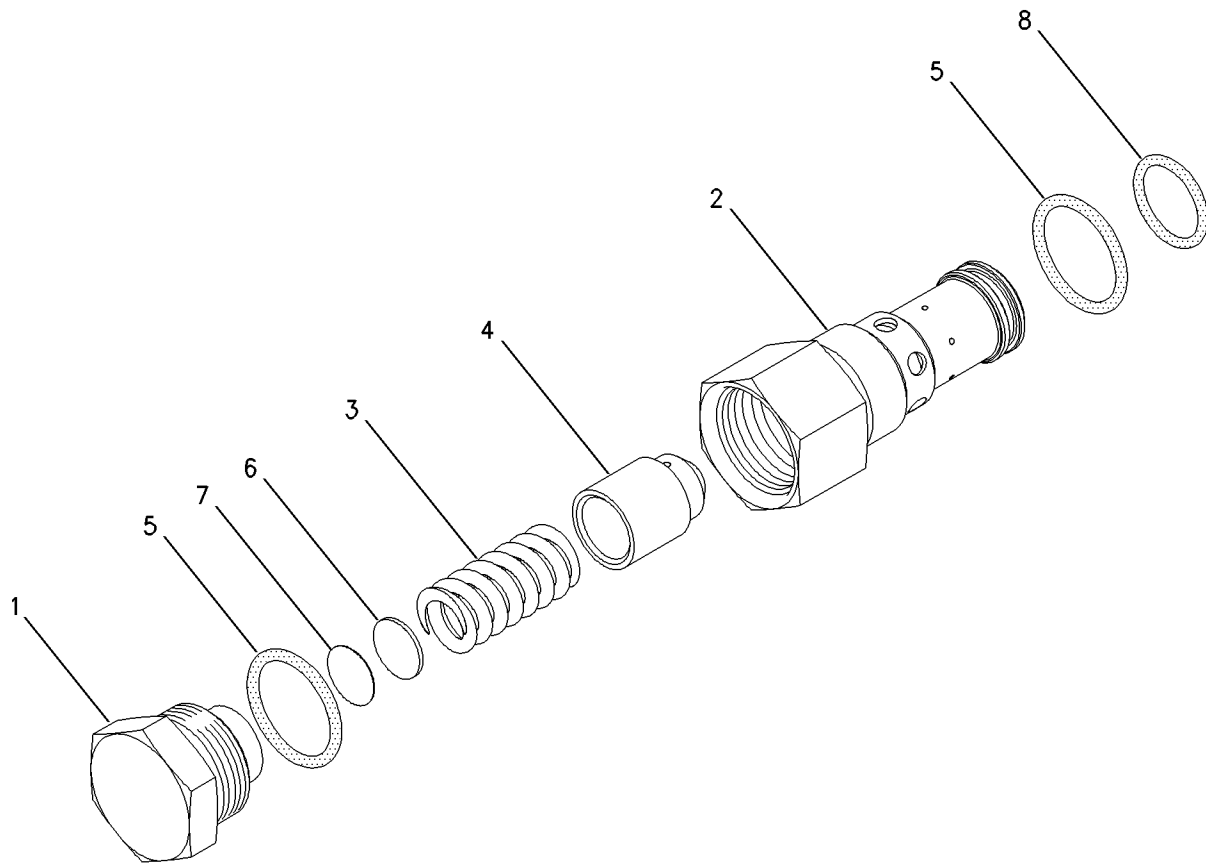
109-5152 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 177-2701, 197-0186 VALVE GP-CONTROL

SMCS-5069

i01351428

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5I-4111	1	PLUG-STRAIGHT THREAD						
	2	1	109-5153	1	BODY-VALVE						
	3	1	107-6370	1	SPRING						
	4	1	107-6371	1	VALVE						
	5	1	4K-1388	2	SEAL-O-RING (26.59MM ID)						
B	6	1	4J-7385	1	SHIM (.048IN THK)						
B	7	1	4J-7386	1	SHIM (.010IN THK)						
	8	1	5P-3108	1	SEAL-O-RING (20.30MM ID)						
B-USE AS REQUIRED											



GRAPHIC #1

g00713111

HYDRAULIC SYSTEM

116-3600 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-6941, 187-7165, 206-9386 LINES GP-FRONT, 177-2701, 177-2702,
197-0186, 197-0187 VALVE GP-CONTROL, 158-8117, 158-8160 VALVE GP-PILOT,
177-2656, 177-2670 VALVE GP-RELIEF
ALSO AN ATTACHMENT

SMCS-5069

i00785460

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	118-5410	1	VALVE GP-RELIEF						567
			—OR—						
Y	116-3601	1	VALVE GP-RELIEF						566
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

116-3601 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

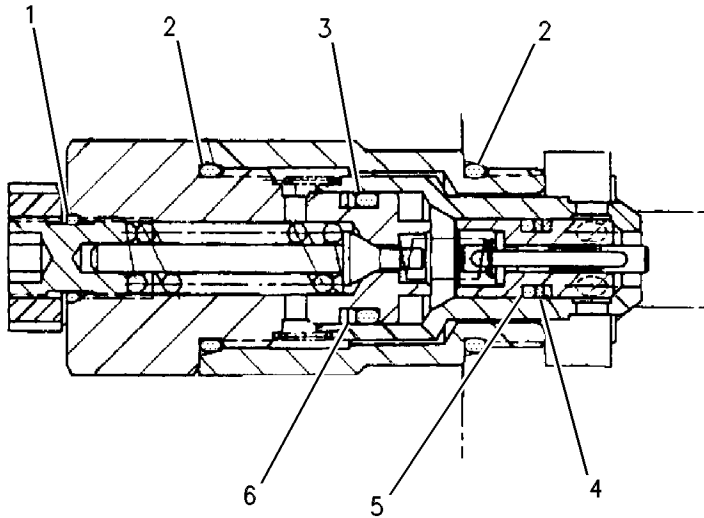
PART OF 116-3600 VALVE GP-RELIEF

ALSO AN ATTACHMENT

SMCS-5069

i00621459

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	095-1578	1	SEAL-O-RING (9.80MM ID)						
	2	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						
	3	1	103-8255	1	SEAL-O-RING						
	4	1	103-8252	2	RING						
	5	1	103-8254	1	SEAL-O-RING						
	6	1	103-8253	2	RING						



GRAPHIC #1

g00258255

HYDRAULIC SYSTEM

118-5410 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

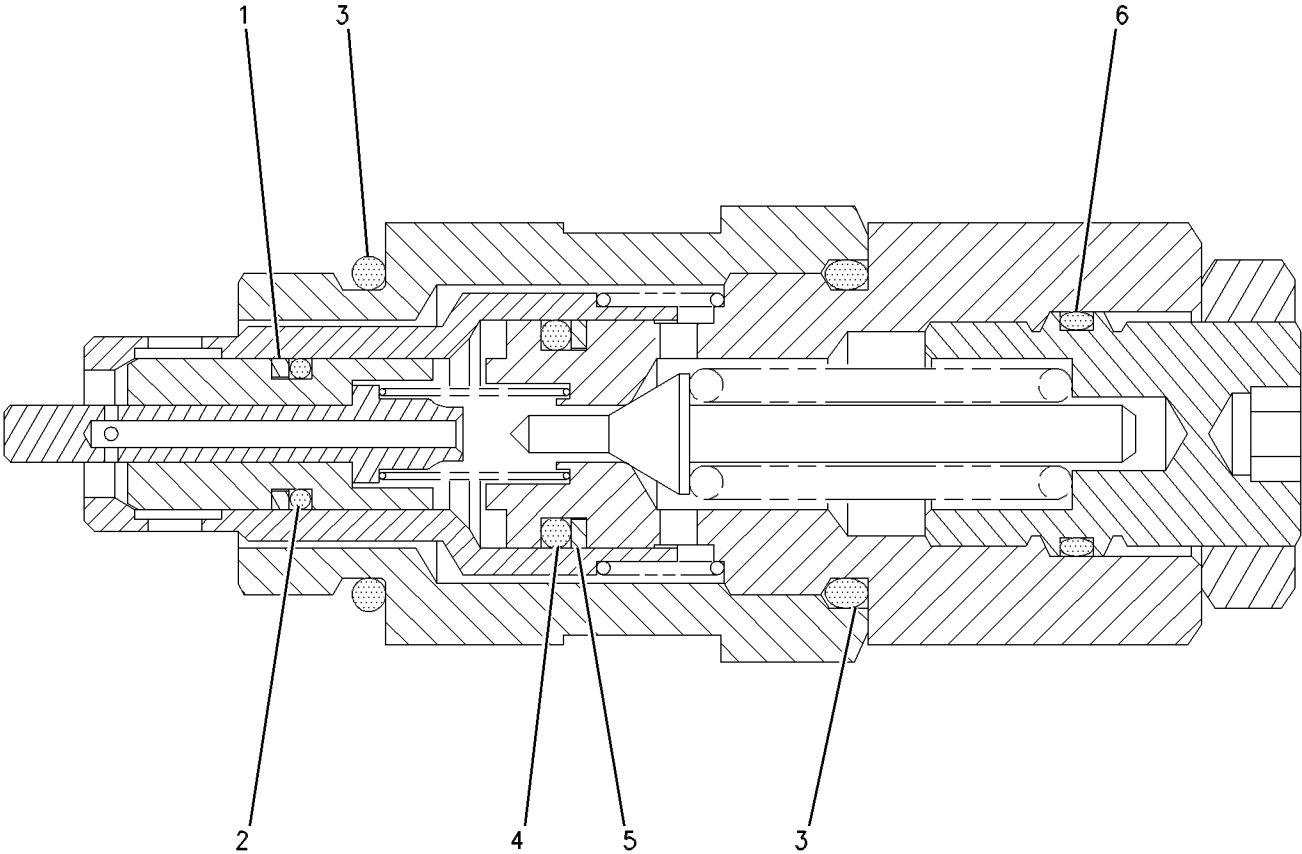
PART OF 116-3600 VALVE GP-RELIEF

ALSO AN ATTACHMENT

SMCS-5069

i01512024

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	030-0167	1	RING-BACKUP						
	2	1	8L-2779	1	SEAL-O-RING						
	3	1	033-6036	2	SEAL-O-RING						
	4	1	3P-0647	1	SEAL-O-RING						
	5	1	9J-0707	1	RING-BACKUP						
	6	1	2P-2975	1	SEAL-O-RING						



GRAPHIC #1

g00479500

HYDRAULIC SYSTEM

129-8030 VALVE GP-RELIEF

S/N: BPH1-UP

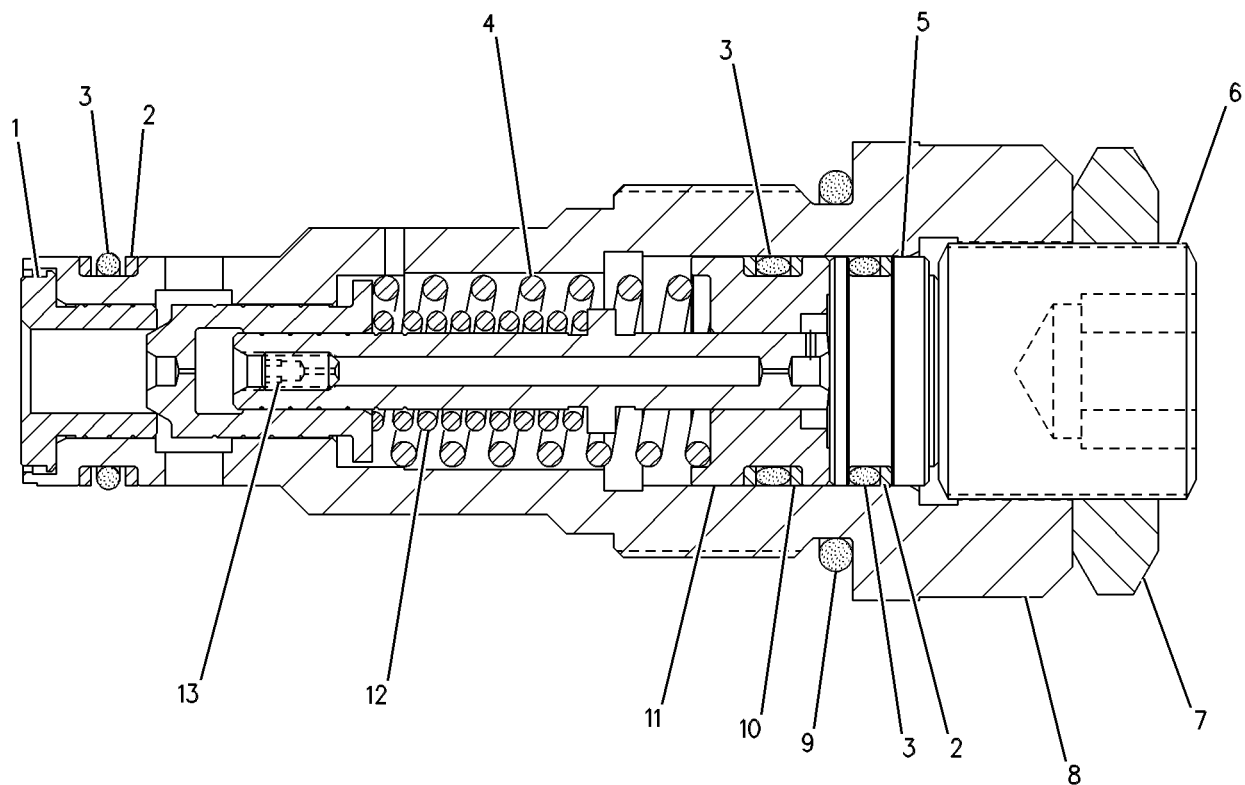
PART OF 137-3718 VALVE GP-TRAVEL COUNTERBALANCE

SMCS-5069

i00619738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	114-0515	1	SEAT						
	2	1	095-1785	3	RING						
	3	1	095-1586	3	SEAL-O-RING (19.80MM ID)						
	4	1	114-0516	1	SPRING						
	5	1	114-0519	1	STOP						
M	6	1	7Y-8436	1	SCREW						
M	7	1	7Y-8437	1	NUT						
	8	1	114-0518	1	BODY						
	9	1	095-1601	1	SEAL-O-RING (34.7MM ID)						
	10	1	121-1459	2	RING-BACKUP						
	11	1	114-0517	1	PISTON						
	12	1	114-0514	1	SPRING						
	13	1	129-8031	1	VALVE GP						

M-METRIC PART



GRAPHIC #1

g00258401

HYDRAULIC SYSTEM

153-5313 VALVE GP-RELIEF-NEG FLOW CONTROL

S/N: BPH1-UP; CAM1-UP; CBY1-UP

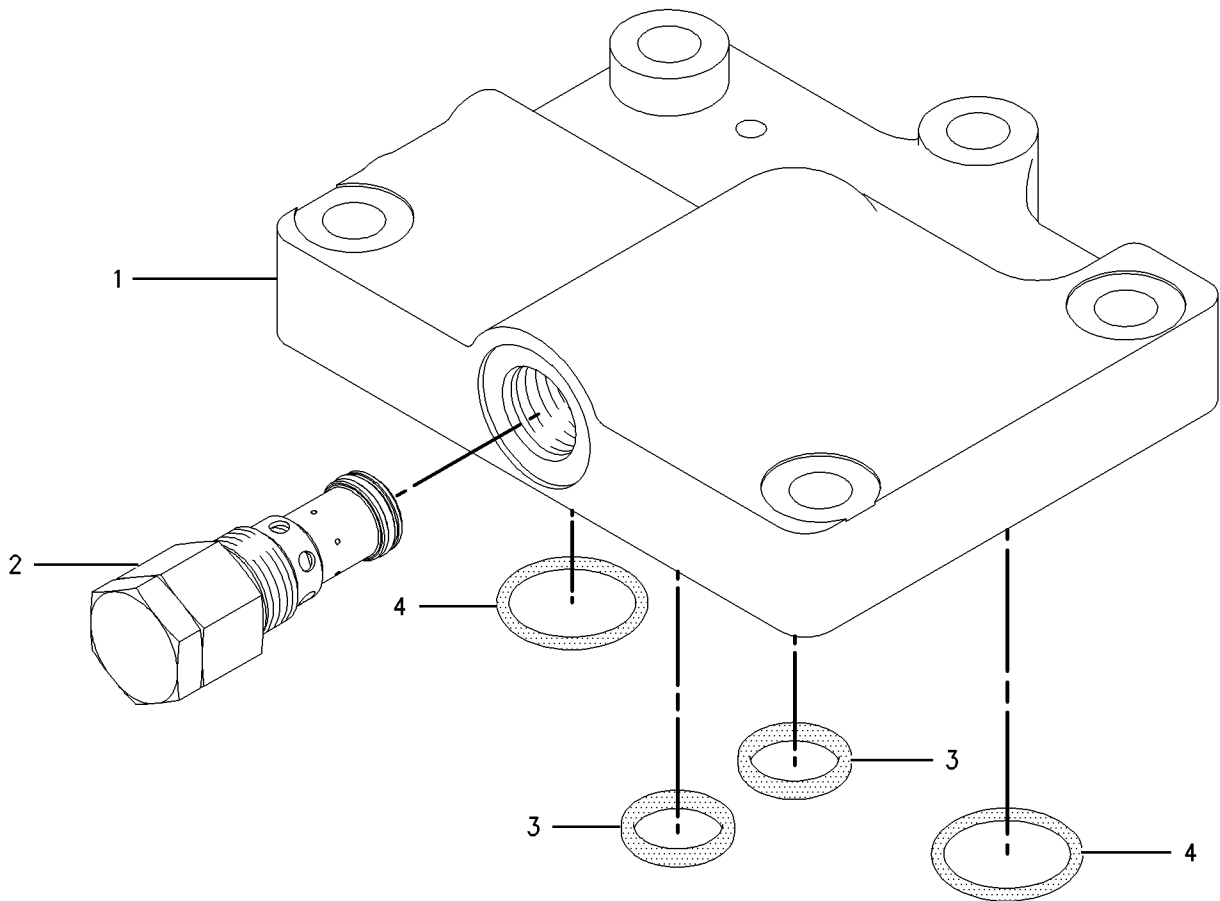
PART OF 197-0185 VALVE GP-CONTROL, 177-2700 VALVE GP-MAIN CONTROL

SMCS-5069

i01469757

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	153-5239	1	COVER						
Y	2	1	109-2667	1	VALVE GP-RELIEF (NEG FLOW CONTROL)						563
	3	1	1P-3702	2	SEAL-RECTANGULAR						
	4	1	4J-8998	2	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00713409

HYDRAULIC SYSTEM

171-0030 VALVE GP-RELIEF

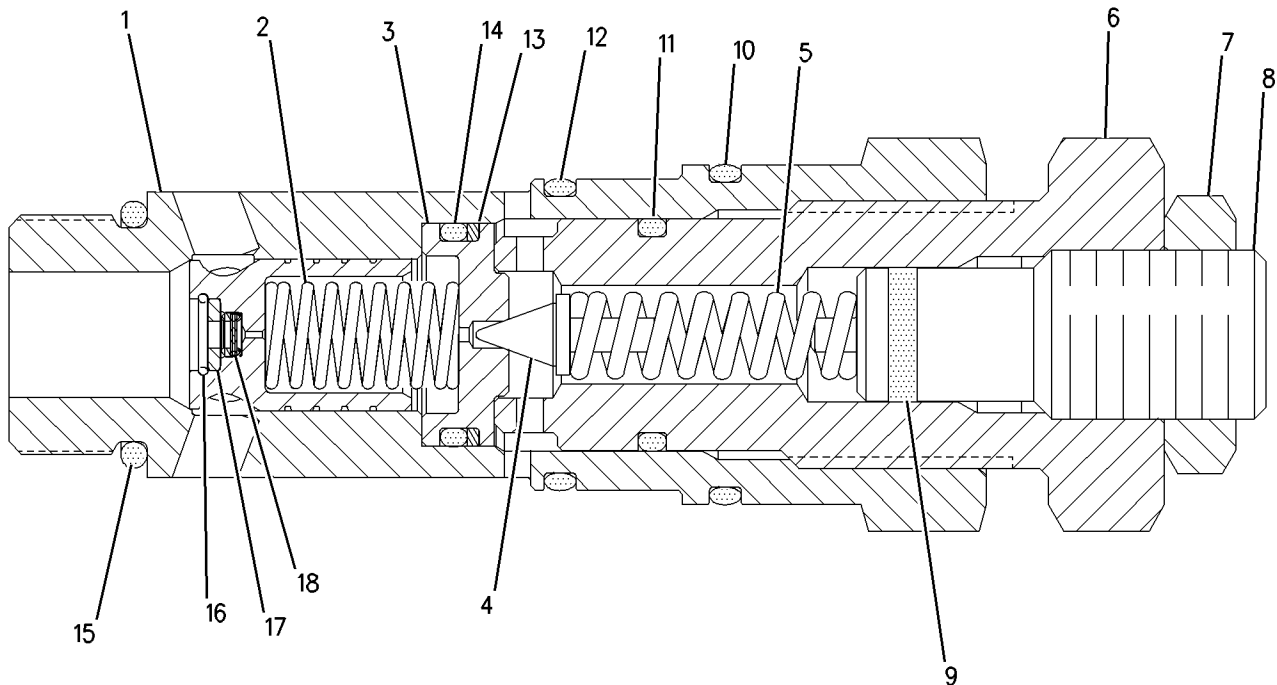
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 177-2702, 197-0187 VALVE GP-CONTROL

SMCS-5069

i01351667

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-0031	1	VALVE GP-RELIEF						
	2	1	6I-6795	1	SPRING						
	3	1	171-0034	1	SEAT						
	4	1	171-0037	1	VALVE						
	5	1	4I-3510	1	SPRING						
	6	1	171-0035	1	HOLDER						
	7	1	4I-7714	1	NUT (3/4-16 THD)						
	8	1	171-0036	1	ADJUSTER						
	9	1	095-1579	1	SEAL-O-RING (10.8MM ID)						
	10	1	6V-8218	1	SEAL-O-RING (32.99MM ID)						
	11	1	095-1590	1	SEAL-O-RING (21.80MM ID)						
	12	1	6V-8978	1	SEAL-O-RING (29.82MM ID)						
	13	1	095-1786	1	RING-BACKUP						
	14	1	095-1587	1	SEAL-O-RING (20.8MM ID)						
	15	1	3D-2824	1	SEAL-O-RING (23.47MM ID)						
	16	1	107-6541	1	RING-RETAINING						
	17	1	107-6540	1	COLLAR						
	18	1	119-5398	1	FILTER						



GRAPHIC #1

g00680513

MEMORANDA

HYDRAULIC SYSTEM

177-2656 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 190-7752 VALVE GP-CHECK & RELIEF
AN ATTACHMENT

SMCS-5069

i01458891

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3J-1907	4	SEAL-O-RING						
	2	1	4J-7533	6	SEAL-O-RING						
Y	3	1	116-3600	1	VALVE GP-RELIEF						565
	4	1	165-9513	1	SEAT						
	5	1	165-9514	1	PLUG						
	6	1	171-0094	1	VALVE						
	7	1	171-0104	1	SPRING						
	8	1	171-0105	1	SPRING						
	9	1	171-0106	1	COVER						
	10	1	177-2658	1	HOUSING						
	11	1	177-2671	2	GUIDE						
	12	1	185-0489	1	VALVE						
	13	1	095-1584	1	SEAL-O-RING						
	14	1	095-1587	2	SEAL-O-RING						
	15	1	095-1786	2	RING-BACKUP						
	16	1	2D-6642	1	BALL						
	17	1	3H-0442	1	SEAL-O-RING						
M	18	1	7Y-5226	1	NUT (M5X0.8 THD)						
M	19	1	8T-4136	8	BOLT (M10X1.5X25MM)						
	20	1	9S-8001	6	PLUG						
	21	1	9S-8004	3	PLUG-HEX						

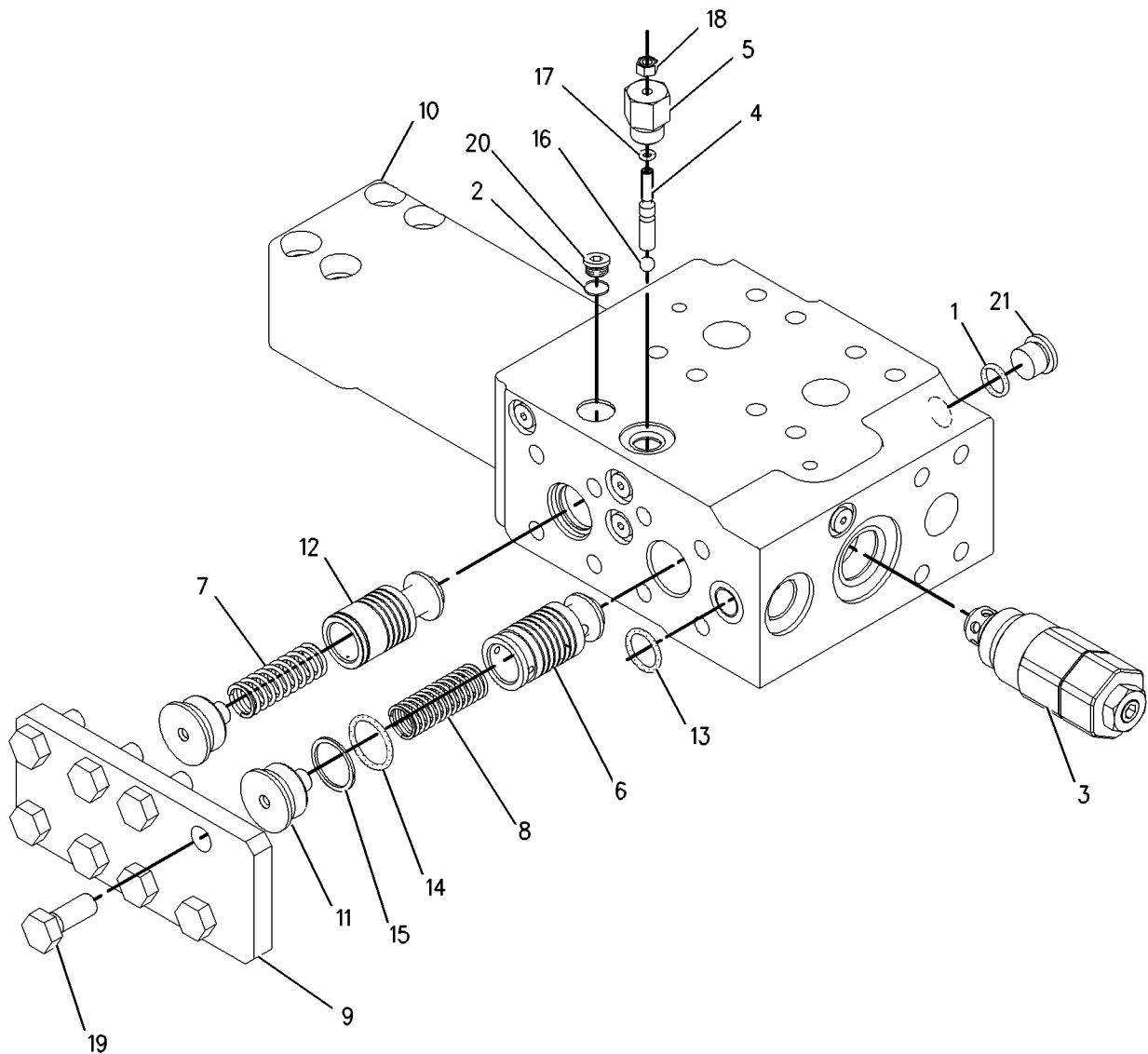
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

177-2656 VALVE GP-RELIEF (contd.)

i01458891



GRAPHIC #1

g00705627

HYDRAULIC SYSTEM

177-2670 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP

BOOM LOWERING CONTROL

PART OF 190-7756 VALVE GP-CHECK & RELIEF
AN ATTACHMENT

SMCS-5069

i01458913

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3J-1907	4	SEAL-O-RING						
	2	1	4J-7533	6	SEAL-O-RING						
Y	3	1	116-3600	1	VALVE GP-RELIEF						565
	4	1	165-9513	1	SEAT						
	5	1	165-9514	1	PLUG						
	6	1	171-0094	1	VALVE						
	7	1	171-0104	1	SPRING						
	8	1	171-0105	1	SPRING						
	9	1	171-0106	1	COVER						
	10	1	177-2671	2	GUIDE						
	11	1	177-2690	1	HOUSING						
	12	1	185-0489	1	VALVE						
	13	1	095-1584	1	SEAL-O-RING						
	14	1	095-1587	2	SEAL-O-RING						
	15	1	095-1786	2	RING-BACKUP						
	16	1	2D-6642	1	BALL						
	17	1	3H-0442	1	SEAL-O-RING						
M	18	1	7Y-5226	1	NUT (M5X0.8 THD)						
M	19	1	8T-4136	8	BOLT (M10X1.5X25MM)						
	20	1	9S-8001	6	PLUG						
	21	1	9S-8004	3	PLUG-HEX						

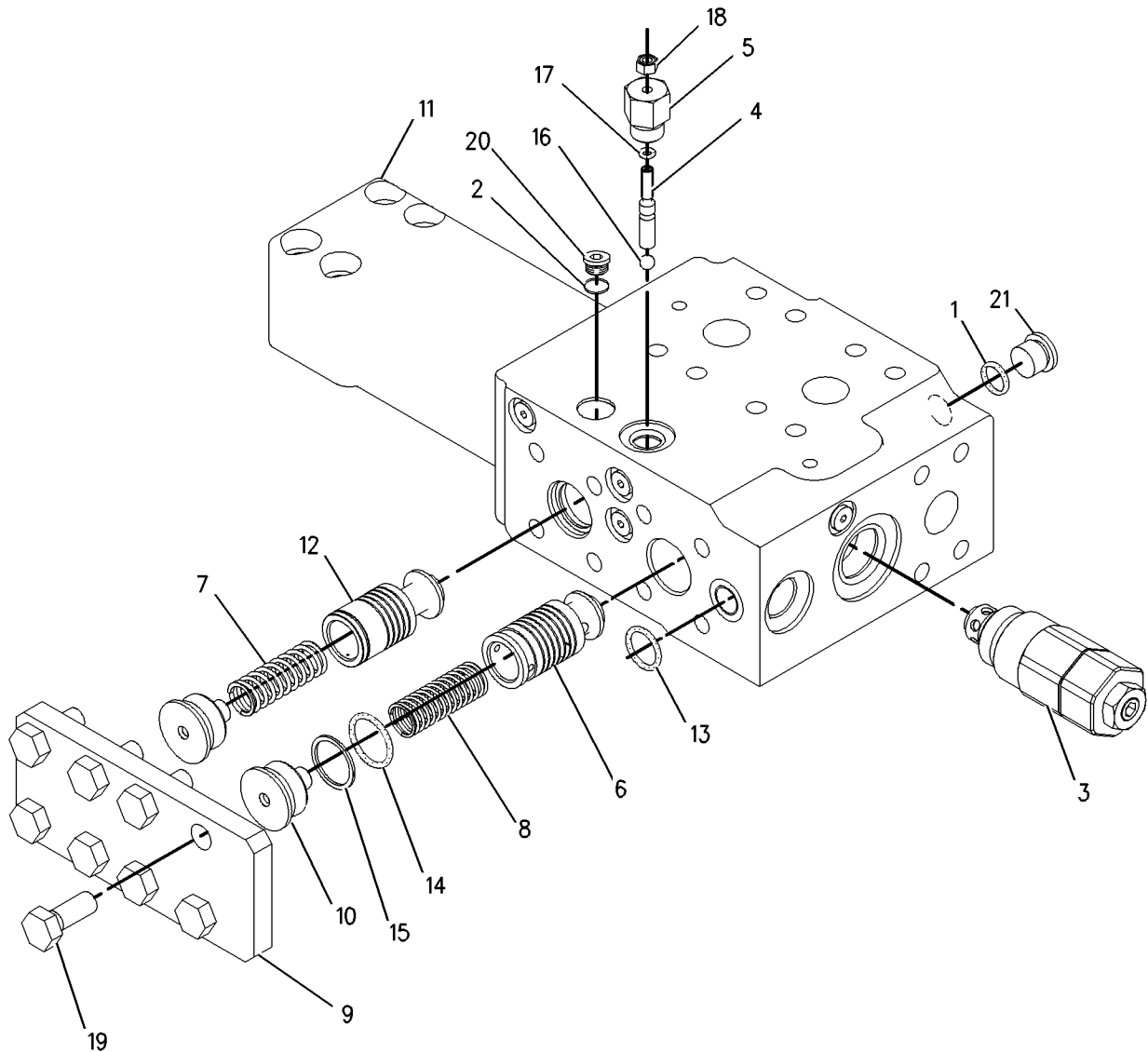
M-METRIC PART

Y-SEPARATE ILLUSTRATION

HYDRAULIC SYSTEM

177-2670 VALVE GP-RELIEF (contd.)

i01458913



GRAPHIC #1

g00705540

HYDRAULIC SYSTEM

188-4174 VALVE GP-RELIEF

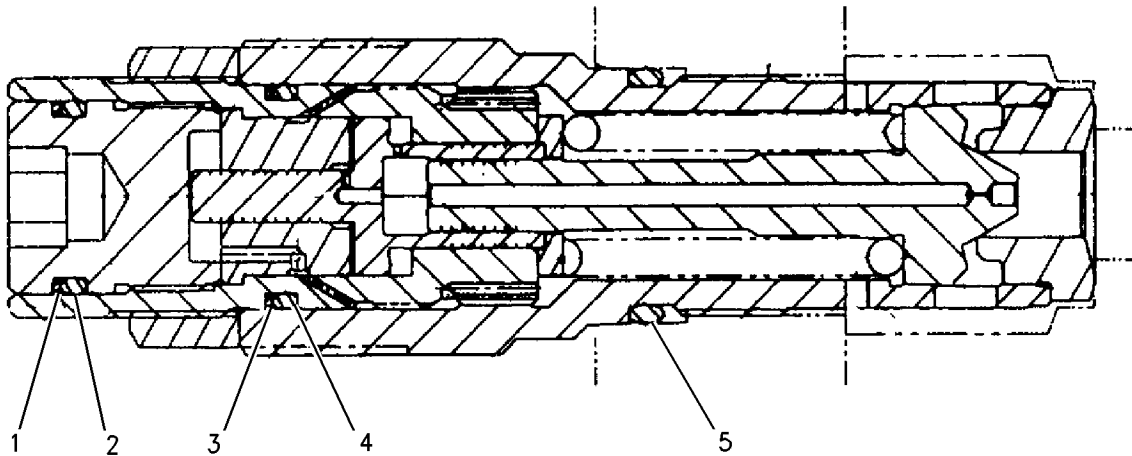
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 177-2459 MOTOR GP-SWING

SMCS-5069

i01469104

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	168-0765	1	RING-BACKUP						
	2	1	7J-9933	1	SEAL-O-RING						
	3	1	7I-0966	1	RING-BACKUP						
	4	1	6V-5556	1	SEAL-O-RING						
	5	1	095-1698	1	SEAL-O-RING						



GRAPHIC #1

g00766908

HYDRAULIC SYSTEM

201-9352 VALVE GP-RELIEF

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 185-0490 VALVE GP-FLOW CONTROL & RELIEF
ALSO AN ATTACHMENT

SMCS-5069

i01549145

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	105-1321	1	VALVE GP-RELIEF						562
			—OR—						
Y	201-9353	1	VALVE GP-PILOT RELIEF						560
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

112-0083 VALVE GP-SHUTTLE

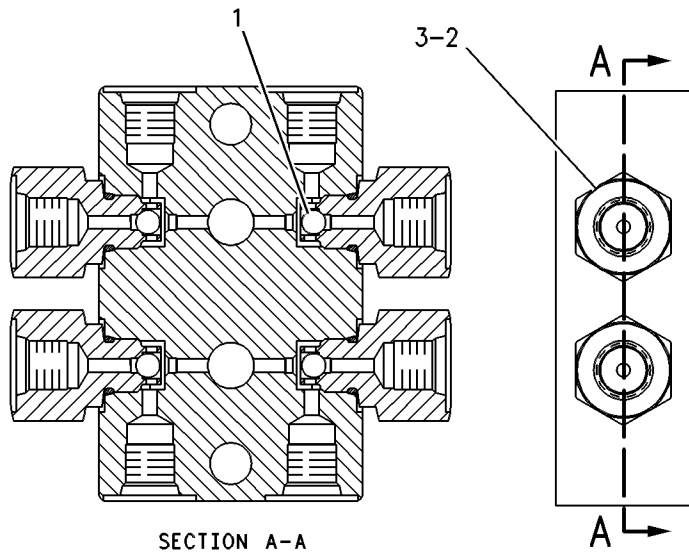
S/N: CBY1-UP

PART OF 187-7163 LINES GP-PILOT

SMCS-5079

i00613146

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2D-6642	4	BALL						
	2	1	112-0085	4	PLUG						
	3	1	3J-1907	4	SEAL-O-RING (11.89MM ID)						



GRAPHIC #1

g00258739

HYDRAULIC SYSTEM

123-2430 VALVE GP-SHUTTLE

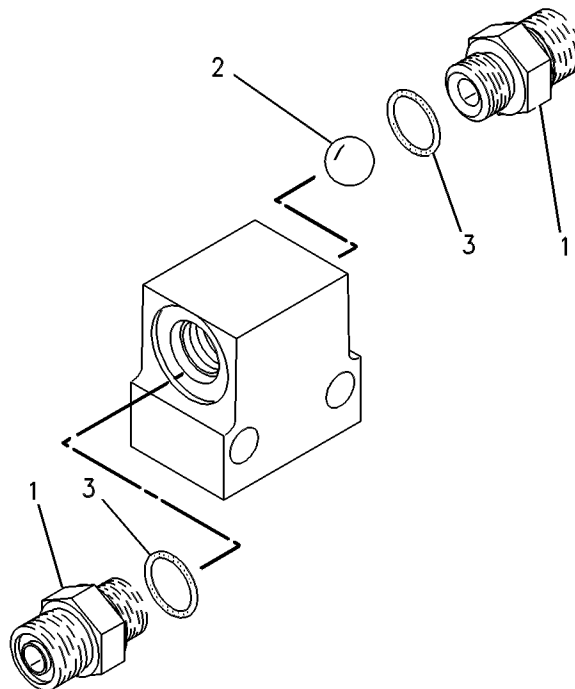
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7160, 187-7164, 187-7166, 206-9387 LINES GP-PILOT
ALSO AN ATTACHMENT

SMCS-5079

i00612909

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	123-2552	2	CONNECTOR						
	2	1	4B-9783	1	BALL						
	3	1	3J-1907	2	SEAL-O-RING (11.89MM ID)						



GRAPHIC #1

g00263342

HYDRAULIC SYSTEM

185-0462 VALVE GP-SHUTTLE

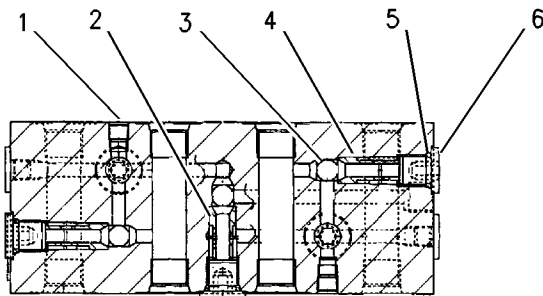
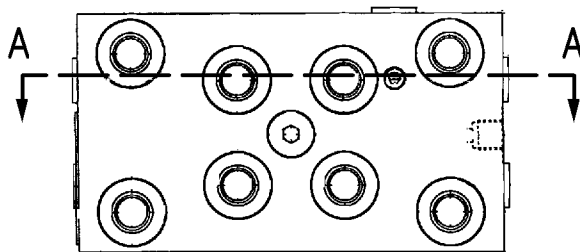
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7159, 187-7163 LINES GP-PILOT

SMCS-5079

i01363513

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7I-8084	4	PLUG						
	2	1	185-0463	1	SEAT						
	3	1	4B-9880	7	BALL (7.94MM DIA)						
	4	1	165-9464	6	SEAT						
	5	1	095-1578	7	SEAL-O-RING (9.80MM ID)						
	6	1	107-6479	7	PLUG						



SECTION A-A

GRAPHIC #1

g00699270

HYDRAULIC SYSTEM

111-9916 VALVE GP-SOLENOID—PRESSURE REDUCING

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 177-2568 HEAD GP-PUMP, 171-0188 VALVE GP-PILOT, 185-0497 VALVE GP-SOLENOID

ALSO AN ATTACHMENT

SMCS-5051, 5479

i00613093

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	114-0615	1	VALVE GP - SOLENOID						582
			—OR—						
Y	114-0616	1	VALVE GP - SOLENOID						583
Y-SEPARATE ILLUSTRATION									

HYDRAULIC SYSTEM

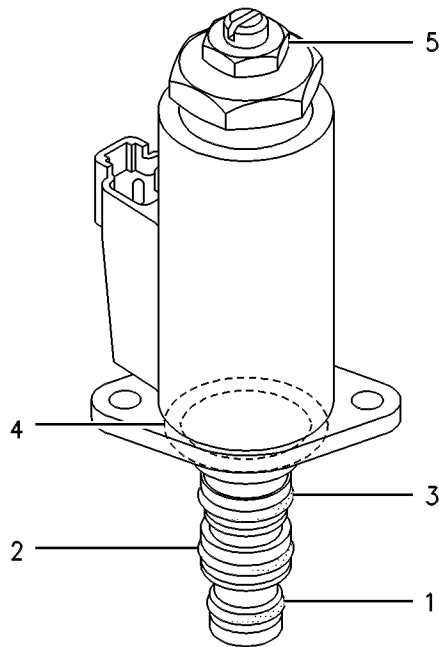
114-0615 VALVE GP-SOLENOID-PRESSURE REDUCING

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 111-9916 VALVE GP-SOLENOID
ALSO AN ATTACHMENT

SMCS-5051, 5479

i00613207

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6M-5062	1	SEAL-O-RING (10.82MM ID)						
	2	1	4K-2039	1	SEAL-O-RING (12.42MM ID)						
	3	1	5L-4758	1	SEAL-O-RING (14.0MM ID)						
	4	1	095-1586	1	SEAL-O-RING (19.80MM ID)						
	5	1	114-0623	1	NUT AS						



GRAPHIC #1

g00258219

HYDRAULIC SYSTEM

114-0616 VALVE GP-SOLENOID

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PRESSURE REDUCING

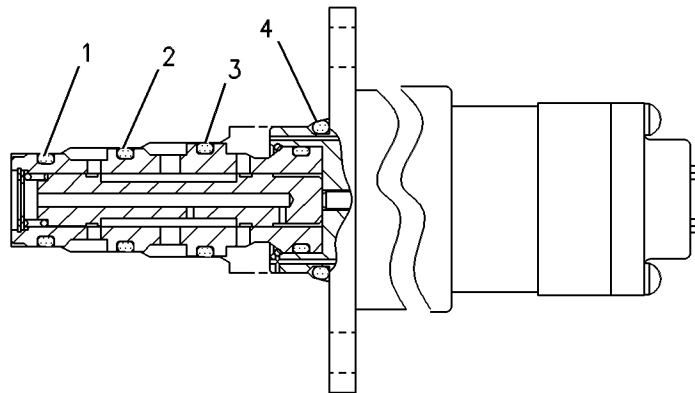
PART OF 111-9916 VALVE GP-SOLENOID

ALSO AN ATTACHMENT

SMCS-5051, 5479

i00613217

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	095-1750	1	SEAL-O-RING (10.82MM ID)						
	2	1	6V-8398	1	SEAL-O-RING (12.47MM ID)						
	3	1	095-1751	1	SEAL-O-RING (14.00MM ID)						
	4	1	095-1586	1	SEAL-O-RING (19.80MM ID)						



GRAPHIC #1

g00258218

HYDRAULIC SYSTEM

116-3526 VALVE GP-SOLENOID

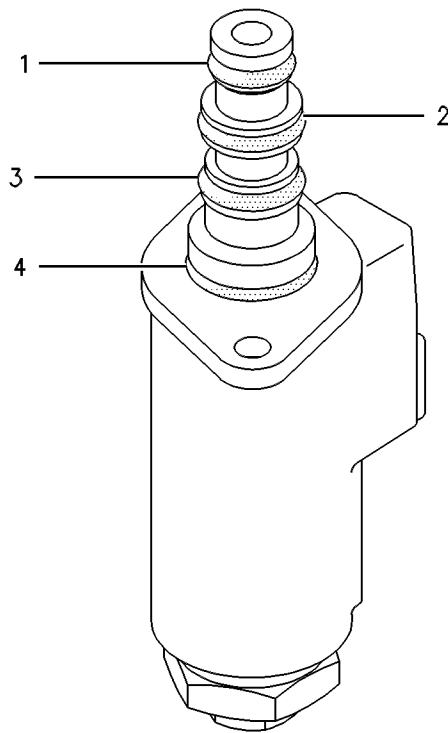
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 158-9090 VALVE GP-SWING CUSHION

SMCS-5051, 5479

i00111565

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-6514	1	SEAL-O-RING (10.82MM ID)						
	2	1	126-6515	1	SEAL-O-RING (12.42MM ID)						
	3	1	126-6516	1	SEAL-O-RING (14.00MM ID)						
	4	1	095-1586	1	SEAL-O-RING (19.80MM ID)						



GRAPHIC #1

g00087220

HYDRAULIC SYSTEM

121-1491 VALVE GP-SOLENOID

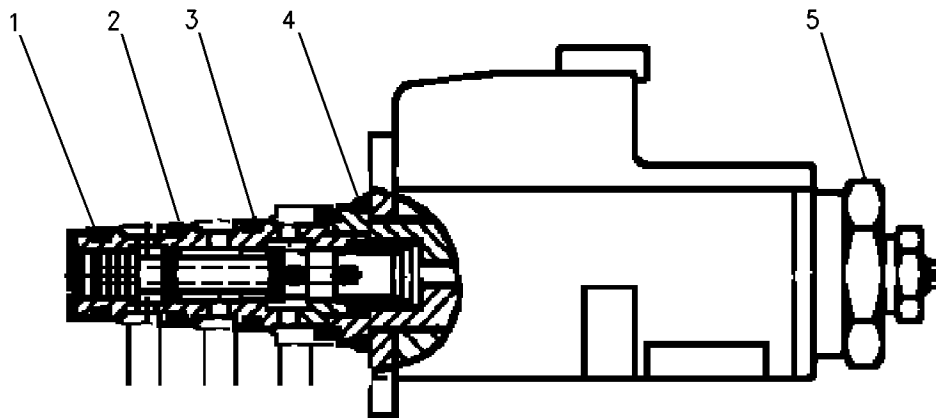
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 177-2702, 197-0187 VALVE GP-CONTROL, 158-8251 VALVE GP-PILOT
ALSO AN ATTACHMENT

SMCS-5051, 5479

i01546119

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	095-1750	1	SEAL-O-RING						
	2	1	6V-8398	1	SEAL-O-RING						
	3	1	095-1751	1	SEAL-O-RING						
	4	1	095-1586	1	SEAL-O-RING						
	5	1	114-0623	1	NUT AS						



GRAPHIC #1

g00732001

HYDRAULIC SYSTEM

185-0497 VALVE GP-SOLENOID

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 187-7166 LINES GP-PILOT

ALSO AN ATTACHMENT

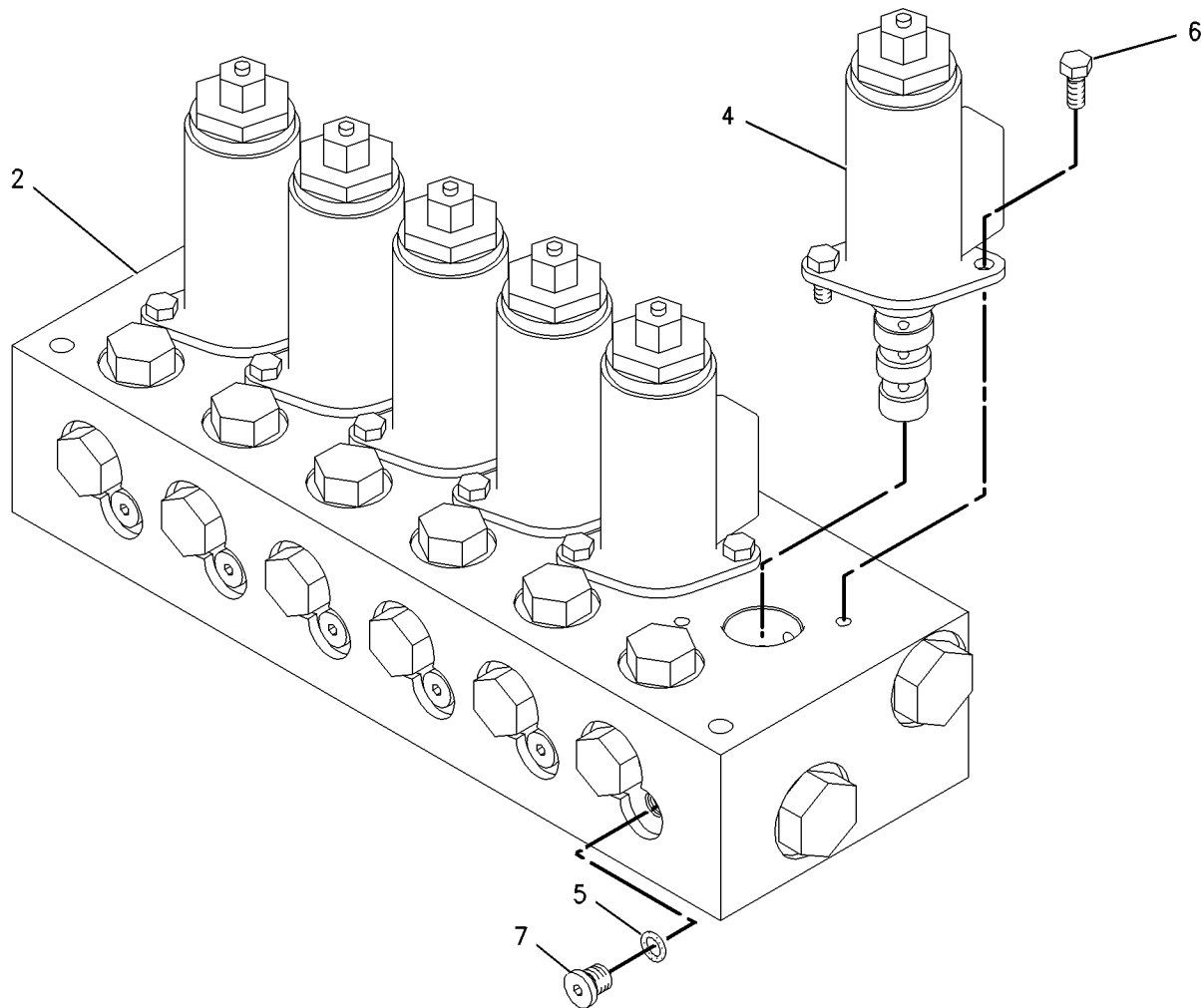
SMCS-5051, 5479

i01521308

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	185-0465	1	BODY-VALVE						
Y	4	1	111-9916	6	VALVE GP-SOLENOID						581
	5	1	4J-7533	12	SEAL-O-RING						
M	6	1	7I-2272	12	BOLT (M5X0.8X12MM)						
	7	1	9S-8001	12	PLUG						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00792935

HYDRAULIC SYSTEM

158-9090 VALVE GP-SWING CUSHION

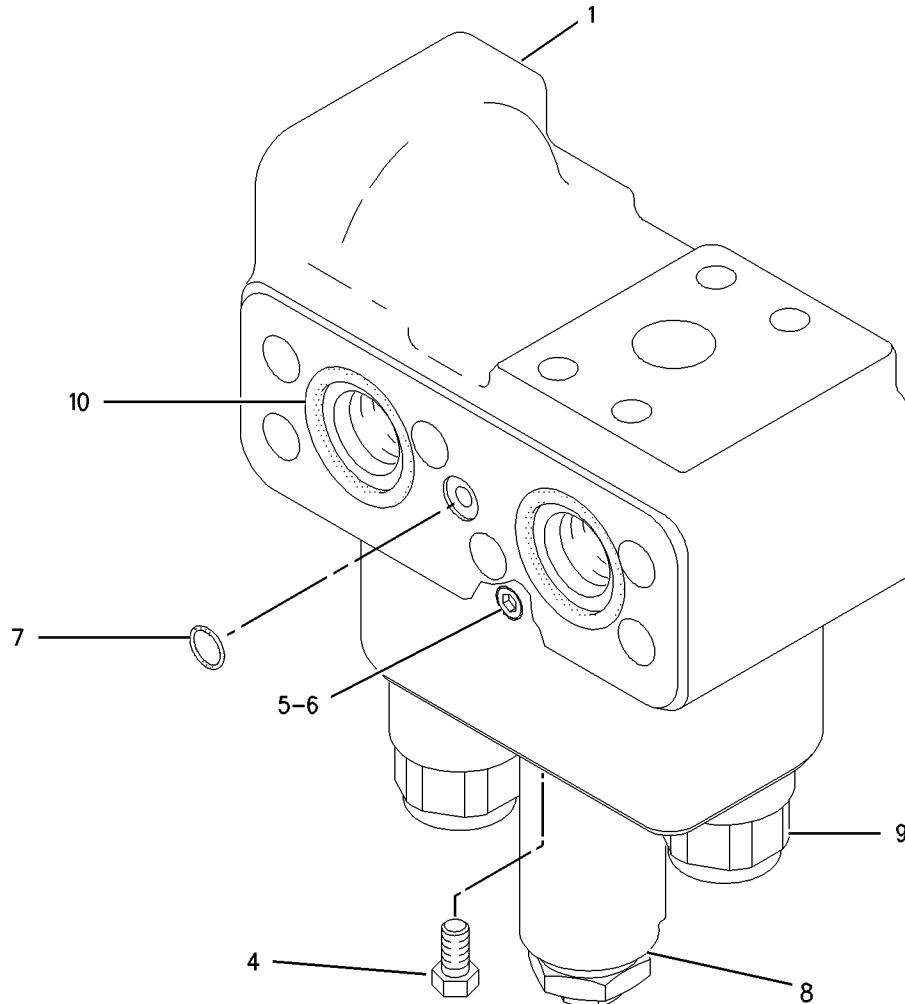
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 196-3651 LINES GP-SWING MOTOR

SMCS-5480

i01547121

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	173-3534	1	BODY						
M	4	1	8T-0288	2	BOLT (M5X0.8X12MM)						
	5	1	133-6788	2	ORIFICE						
	6	1	8T-6759	6	PLUG-PIPE						
	7	1	095-1576	1	SEAL-O-RING						
Y	8	1	116-3526	1	VALVE GP-SOLENOID						584
	9	1	173-3536	2	VALVE GP-SWING CUSHION						
		1	095-1586	1	SEAL-O-RING						
		1	095-1785	1	RING-BACKUP						
	10	1	095-1698	2	SEAL-O-RING						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00685474

HYDRAULIC SYSTEM

137-3718 VALVE GP-TRAVEL COUNTERBALANCE

S/N: BPH1-UP

PART OF 134-7132 MOTOR & MTG GP-TRAVEL

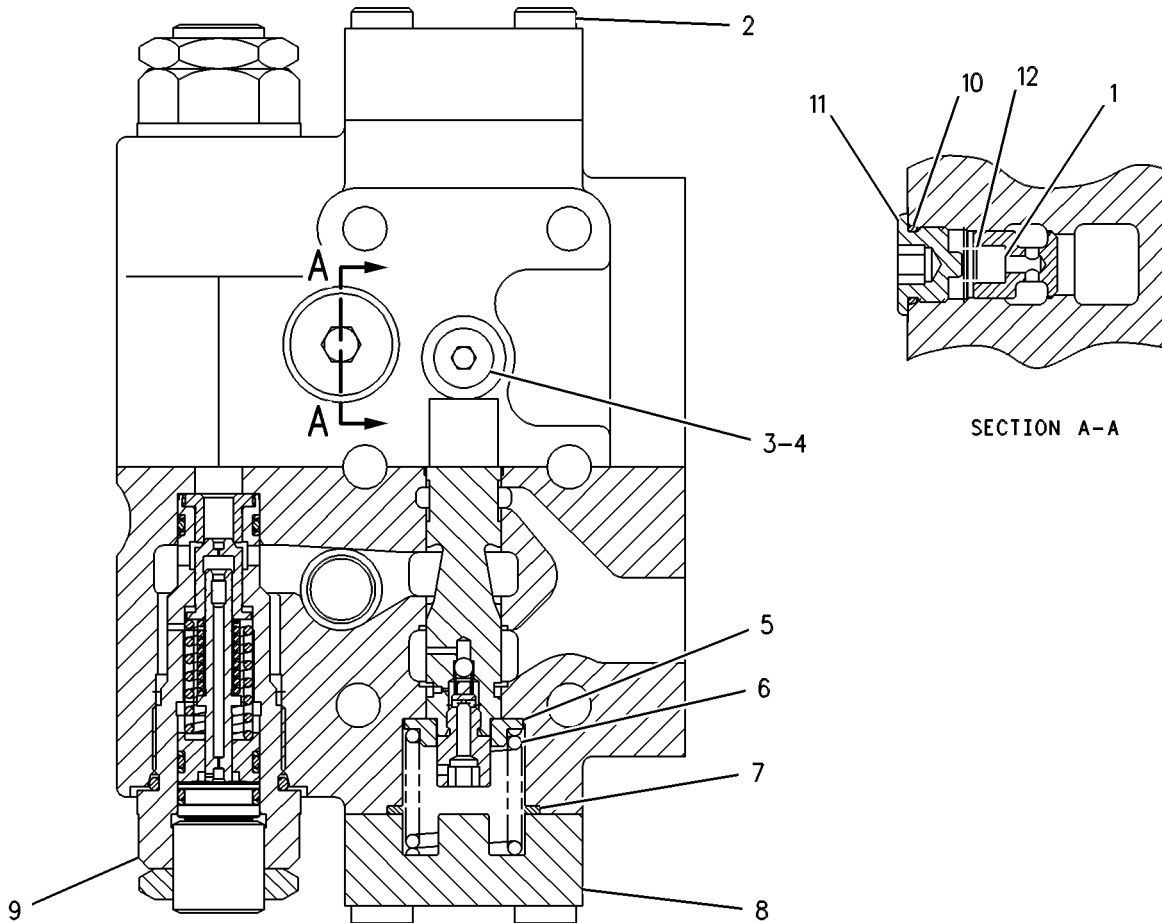
SMCS-5051

i00962957

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	119-5365	2	VALVE	
M	2	1	6V-8200	8	BOLT-HEX SOCKET (M12X1.75X35MM)	
	3	1	9S-8004	2	PLUG-O-RING (9/16-18 THD)	
	4	1	3J-1907	2	SEAL-O-RING (11.89MM ID)	
	5	1	129-7932	2	GUIDE	
	6	1	129-7931	2	SPRING	
	7	1	095-1701	2	SEAL-O-RING (39.4MM ID)	
	8	1	119-5360	2	COVER	
Y	9	1	129-8030	2	VALVE GP-RELIEF	568
	10	1	2M-9780	2	SEAL-O-RING (19.18MM ID)	
	11	1	119-5364	2	PLUG	
	12	1	119-5362	2	SPRING	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00260069

IMPLEMENTS

190-2320 BOOM AR-1 PIECE LONG

S/N: BPH1-UP; CAM1-UP

AN ATTACHMENT

SMCS-6000

i01529932

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	176-2231	1	BOOM GP						590
Y	205-1182	1	CYLINDER & LINES GP-BOOM						294
Y	205-1183	1	CYLINDER & LINES GP-BOOM						295
Y	205-1184	1	CYLINDER & LINES GP-BOOM						296
Y	116-0184	1	LIGHTING GP-BOOM						146
Y	116-0189	1	LIGHTING GP-BOOM						147
Y	176-4633	1	LINES GP-BOOM						372
Y	176-2232	1	LINES GP-GREASE						596

IMPLEMENTS

176-2231 BOOM GP

S/N: BPH1-UP; CAM1-UP

5900MM. B-FAMILY

PART OF 190-2320 BOOM AR-1 PIECE LONG

AN ATTACHMENT

SMCS-6460, 6501, 6516, 6521, 6535, 6536

i01411548

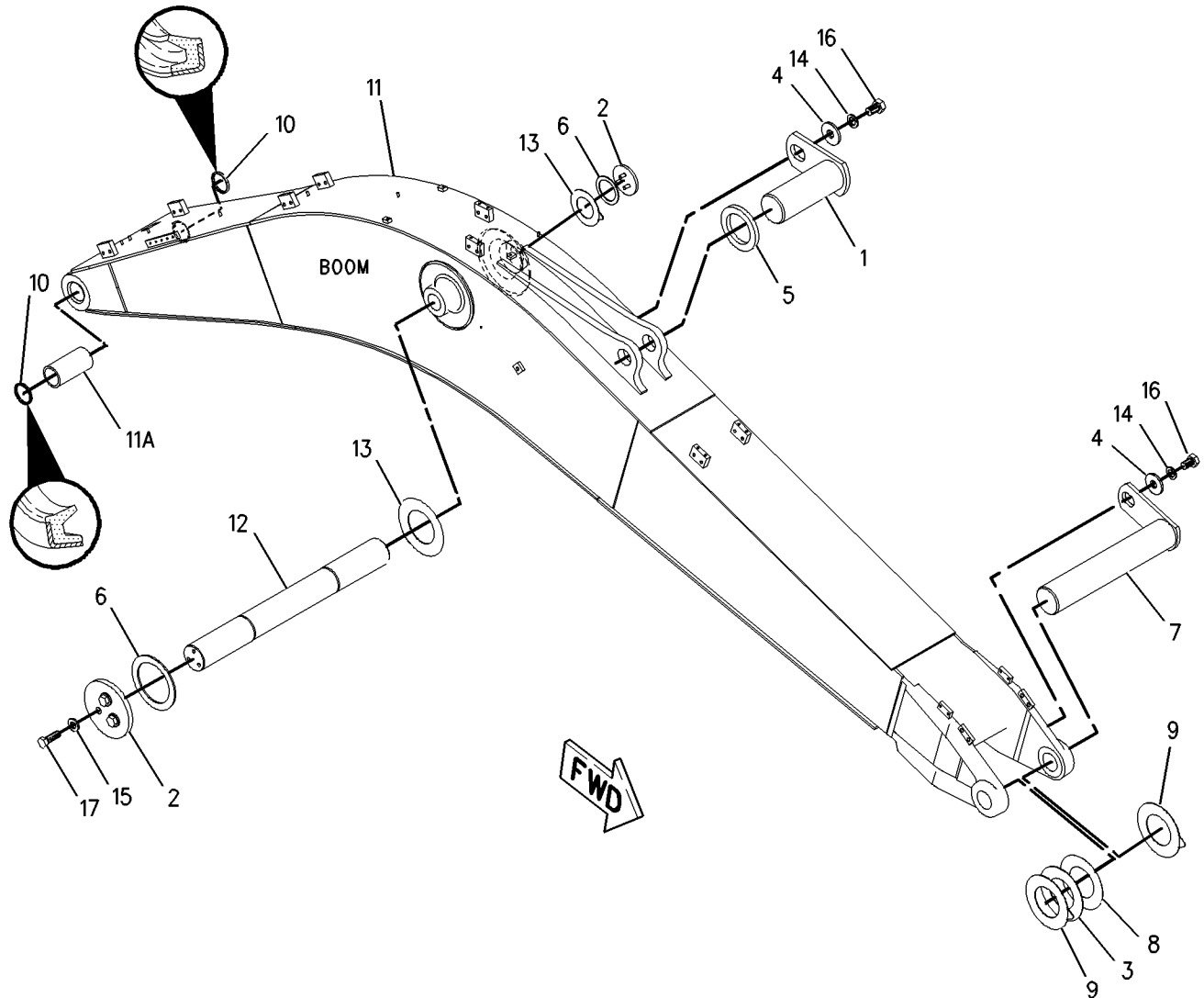
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-4809	1	PIN AS						
	2	1	7Y-2390	2	PLATE						
B	3	1	093-0116	1	SHIM (2.0MM THK)						
	4	1	093-0349	2	WASHER (6.0MM THK)						
	5	1	093-0363	1	SPACER (12MM THK)						
	6	1	093-0366	1	SPACER (12MM THK)						
	7	1	102-3196	1	PIN AS						
B	8	1	113-2127	1	SHIM (0.5MM THK)						
B	9	1	166-1487	4	SHIM (2.0MM THK)						
	10	1	166-1496	2	SEAL-LIP TYPE						
	11	1	178-0959	1	BOOM & BEARING AS						
	11A	1	180-7576	2	BEARING-SLEEVE						
	12	1	180-7752	1	PIN						
	13	1	087-5955	2	SPACER						
	14	1	8T-4123	2	WASHER-PLATED (22X35X3.5MM THK)						
	15	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	16	1	8T-4780	2	BOLT (M20X2.5X30MM)						
M	17	1	8T-4956	6	BOLT (M12X1.75X35MM)						

B-USE AS REQUIRED
M-METRIC PART

IMPLEMENTS

176-2231 BOOM GP (contd.)

i01411548



GRAPHIC #1

g00744024

IMPLEMENTS

196-1181 BOOM GP

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-6460, 6501, 6516, 6521, 6535, 6536

i01517328

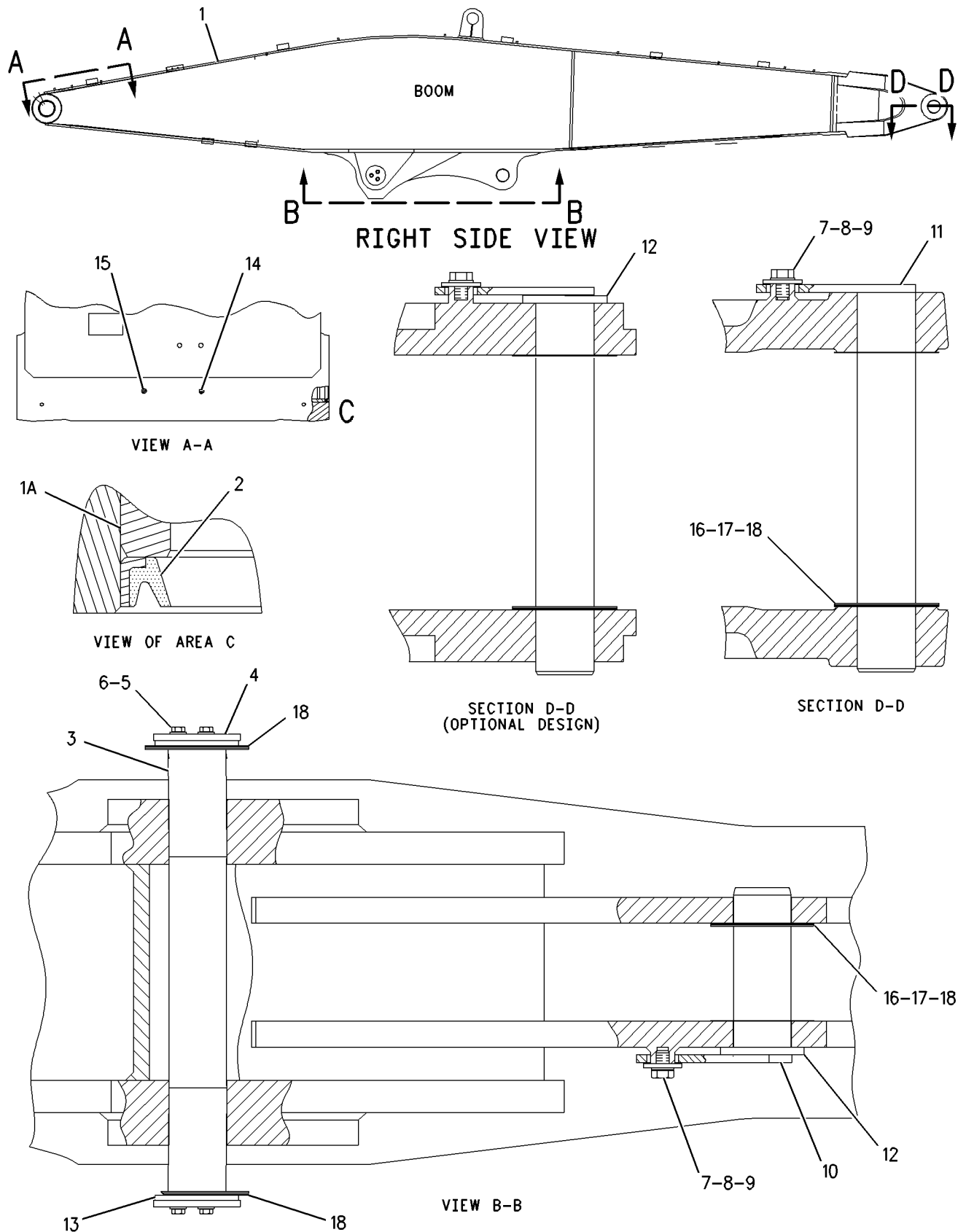
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-1182	1	BOOM & BEARING AS						
	1A	1	137-2817	2	BEARING-SLEEVE						
	2	1	9X-4597	2	SEAL-LIP						
	3	1	101-2208	1	PIN						
	4	1	197-0634	2	PLATE						
M	5	1	8T-4956	6	BOLT (M12X1.75X35MM)						
	6	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	7	1	8T-4780	2	BOLT (M20X2.5X30MM)						
	8	1	093-0349	2	WASHER (6.0MM THK)						
	9	1	8T-4123	2	WASHER-PLATED (22X35X3.5MM THK)						
	10	1	113-2963	1	PIN AS						
	11	1	4I-4619	1	PIN AS						
	12	1	093-0366	2	SPACER (12MM THK)						
	13	1	197-0732	2	SPACER						
	14	1	3B-8489	1	FITTING-GREASE						
	15	1	8T-6764	1	PLUG-PIPE						
B	16	1	093-0084	4	SHIM (1.0MM THK)						
B	17	1	7Y-2497	2	SHIM (1.6MM THK)						
B	18	1	093-0116	8	SHIM (2.0MM THK)						

B-USE AS REQUIRED
M-METRIC PART

IMPLEMENTS

196-1181 BOOM GP (contd.)

i01517328



GRAPHIC #1

g00793229

IMPLEMENTS

137-7531 GUARD GP-STICK CYLINDER

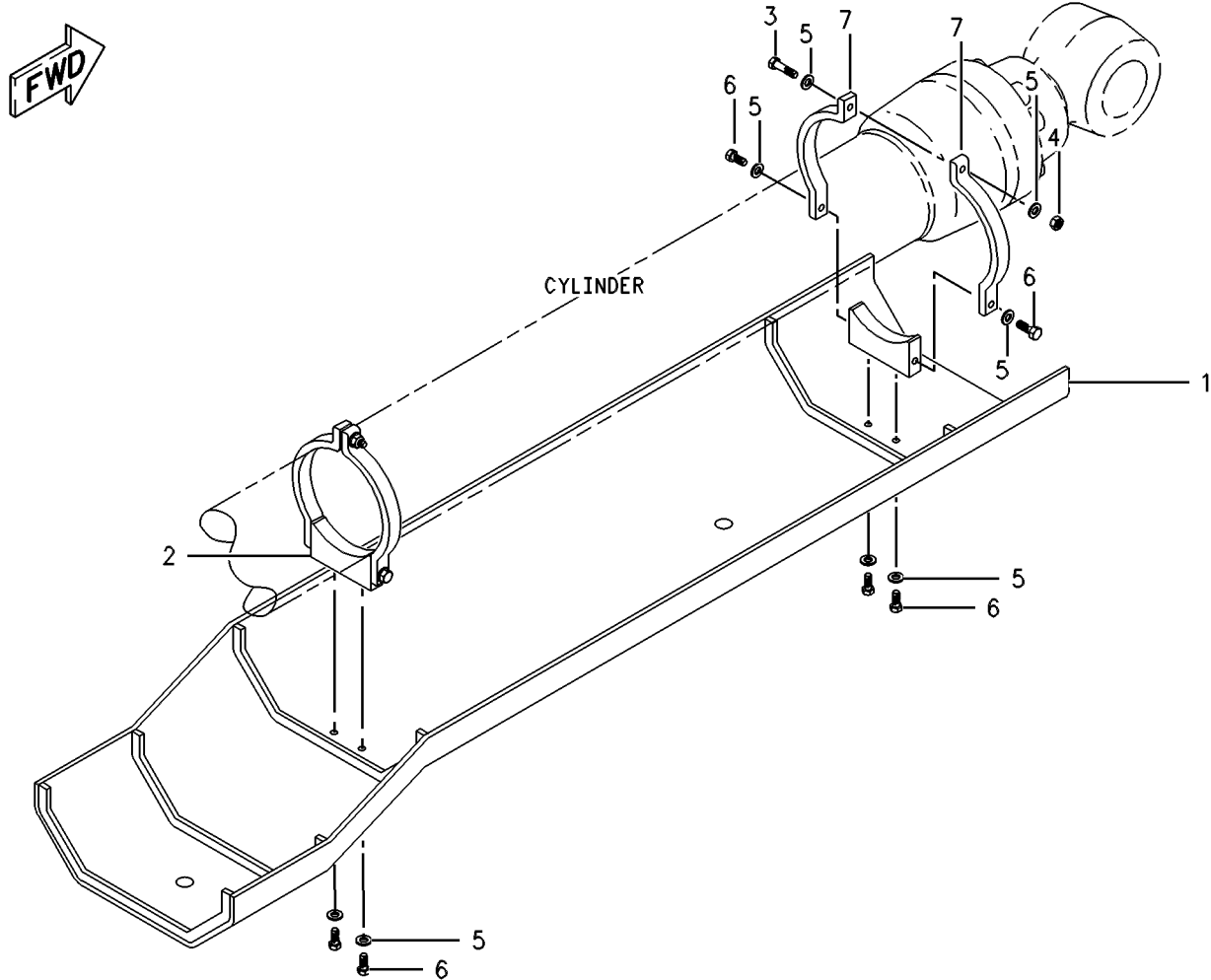
S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-7164

i01223644

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-2230	1	PLATE AS						
	2	1	135-0806	3	PLATE						
M	3	1	6V-8150	3	BOLT (M12X1.75X60MM)						
M	4	1	8T-4244	3	NUT (M12X1.75 THD)						
	5	1	8T-4223	18	WASHER-HARD (3MM THK)						
M	6	1	8T-4139	12	BOLT (M12X1.75X30MM)						
	7	1	135-0807	6	CLAMP						
M-METRIC PART											



GRAPHIC #1

g00264765

IMPLEMENTS

135-2054 LINES GP-GREASE

S/N: CBY1-UP

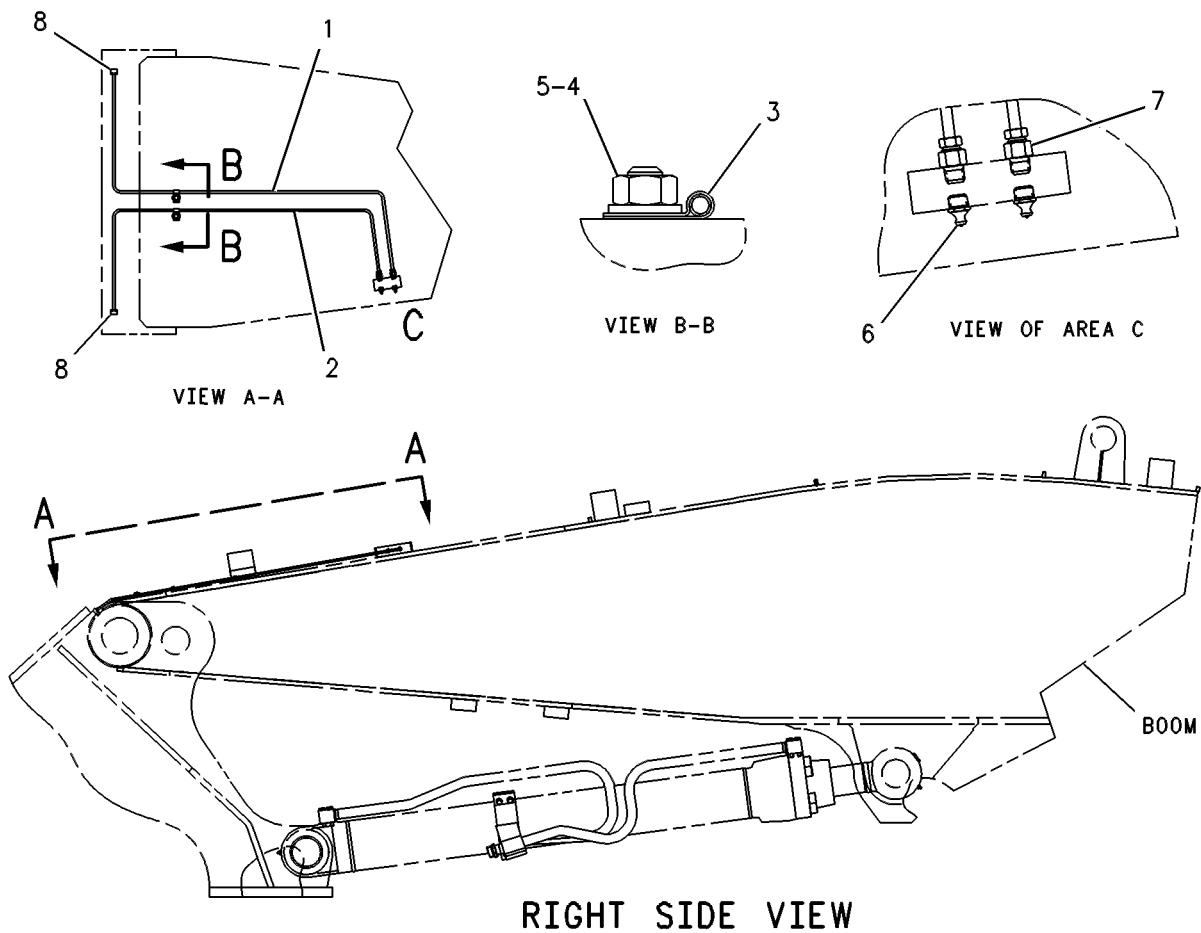
PART OF 192-2351 LINKAGE AR, 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-7510

i00619274

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	139-2261	1	TUBE AS						
	2	1	139-2262	1	TUBE AS						
	3	1	8M-2772	2	CLIP (6.35MM ID)						
M	4	1	8T-4133	2	NUT (M10X1.50 THD)						
	5	1	8T-4121	2	WASHER (2.5MM THK)						
	6	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)						
	7	1	6L-3616	2	CONNECTOR-FLARED						
	8	1	5K-9243	2	ELBOW-FLARED						

M-METRIC PART



GRAPHIC #1

g00276806

IMPLEMENTS

176-2232 LINES GP-GREASE

S/N: BPH1-UP; CAM1-UP

PART OF 190-2320 BOOM AR-1 PIECE LONG
AN ATTACHMENT

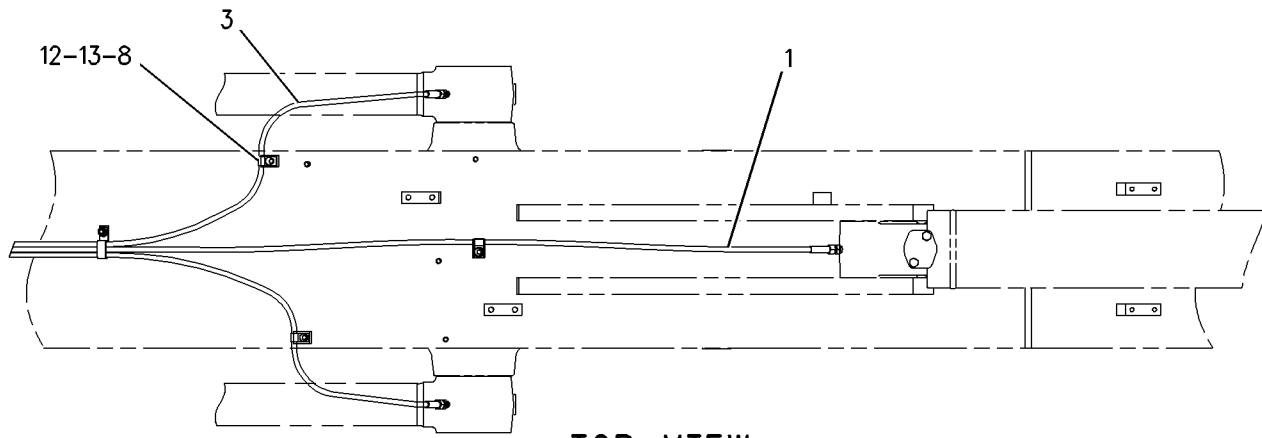
SMCS-7510

i01411567

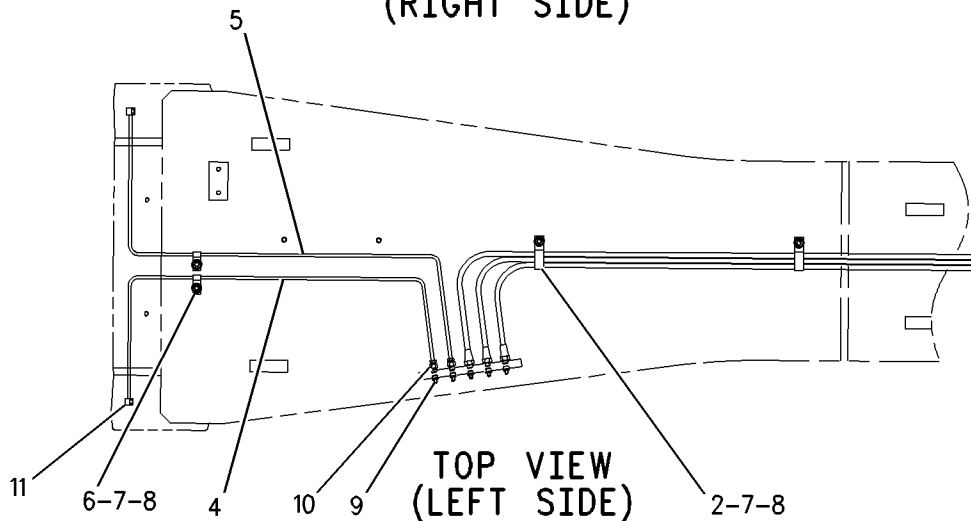
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	120-7226	1	HOSE AS						
	2	1	166-1579	3	CLIP						
I	3	1	115-2677	2	HOSE AS						
	4	1	102-3243	1	TUBE AS						
	5	1	102-3242	1	TUBE AS						
	6	1	8M-2772	2	CLIP						
M	7	1	8T-4133	5	NUT (M10X1.5 THD)						
	8	1	8T-4121	8	WASHER-HARD (11X21X2.5MM THK)						
	9	1	3B-8489	5	FITTING-GREASE						
	10	1	6L-3616	2	CONNECTOR-FLARED						
	11	1	5K-9243	2	ELBOW-FLARED						
	12	1	033-8248	3	CLIP						
M	13	1	8T-4191	3	BOLT (M10X1.5X16MM)						

I - SEE HOSE FABRICATION GUIDE

M - METRIC PART



TOP VIEW
(RIGHT SIDE)



TOP VIEW
(LEFT SIDE)

GRAPHIC #1

g00743656

IMPLEMENTS

192-2351 LINKAGE AR

S/N: CBY1-UP
UNDER/UNDER
AN ATTACHMENT

SMCS-6000

i01499241

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	196-1181	1	BOOM GP						592
Y	177-7465	1	CYLINDER & LINES GP-BOOM						291
Y	177-7466	1	CYLINDER & LINES GP-BOOM						292
Y	142-9928	1	CYLINDER & SEAL GP						299
Y	142-9929	1	CYLINDER & SEAL GP						300
Y	144-8544	1	FILM GP						690
Y	177-7452	1	GUARD GP-CYLINDER (BOOM)						340
Y	137-7531	1	GUARD GP-STICK CYLINDER						594
Y	135-2055	1	LIGHTING GP						144
Y	165-5710	1	LINES GP-BOOM						370
Y	135-2054	1	LINES GP-GREASE						595
Y	135-2053	1	LINES GP-STICK						462
Y	134-3366	1	STICK GP						606

Y-SEPARATE ILLUSTRATION

IMPLEMENTS

176-2657 LINKAGE AR-BUCKET

S/N: BPH1-UP; CAM1-UP

S-FAMILY

AN ATTACHMENT

SMCS-6513

i01512906

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	205-1185	1	CYLINDER & LINES GP-BUCKET						297
Y	176-2241	1	LINKAGE GP-BUCKET						600
Y-SEPARATE ILLUSTRATION									

IMPLEMENTS

192 - 2352 LINKAGE AR- LOG LOADER

S/N: CBY1-UP
OVER/UNDER
AN ATTACHMENT

SMCS - 6000

i01539496

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	196-1181	1	BOOM GP						592
Y	177-7465	1	CYLINDER & LINES GP-BOOM						291
Y	177-7466	1	CYLINDER & LINES GP-BOOM						292
Y	133-6817	1	CYLINDER & LINES GP-STICK						298
Y	142-9928	1	CYLINDER & SEAL GP						299
Y	177-7452	1	GUARD GP-CYLINDER (BOOM)						340
Y	137-7531	1	GUARD GP-STICK CYLINDER						594
Y	135-2055	1	LIGHTING GP						144
Y	165-5710	1	LINES GP-BOOM						370
Y	135-2054	1	LINES GP-GREASE						595
Y	139-8925	1	LINES GP-STICK						464
Y	139-8610	1	STICK GP						608

Y-SEPARATE ILLUSTRATION

IMPLEMENTS

176-2241 LINKAGE GP-BUCKET

S/N: BPH1-UP; CAM1-UP

S-FAMILY

PART OF 176-2657 LINKAGE AR-BUCKET

AN ATTACHMENT

SMCS-6513

i01537053

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	087-5805	2	PIN						
	2	1	102-3271	1	LINK						
	3	1	178-0964	1	LINK & BEARING AS						
	3A	1	137-2919	2	BEARING (95.18MM OD) (80.25MM ID)						
	3B	1	143-3841	2	BEARING-SLEEVE						
	3C	1	3B-8489	4	FITTING-GREASE						
M	4	1	188-2315	2	BOLT						
M	5	1	8T-4132	4	NUT (M16X2 THD)						
	6	1	096-0854	6	SEAL-LIP TYPE						
	7	1	093-1344	4	SEAL-O-RING						
	8	1	3B-8489	5	FITTING-GREASE						
B	9	1	166-1486	2	SHIM (2.0MM THK)						
M	10	1	186-5649	2	BOLT						
M	11	1	8T-4131	4	NUT (M20X2.5 THD)						
	12	1	186-5731	1	LINK AS						
	13	1	186-5730	1	PIN						
	14	1	186-5732	1	PIN						

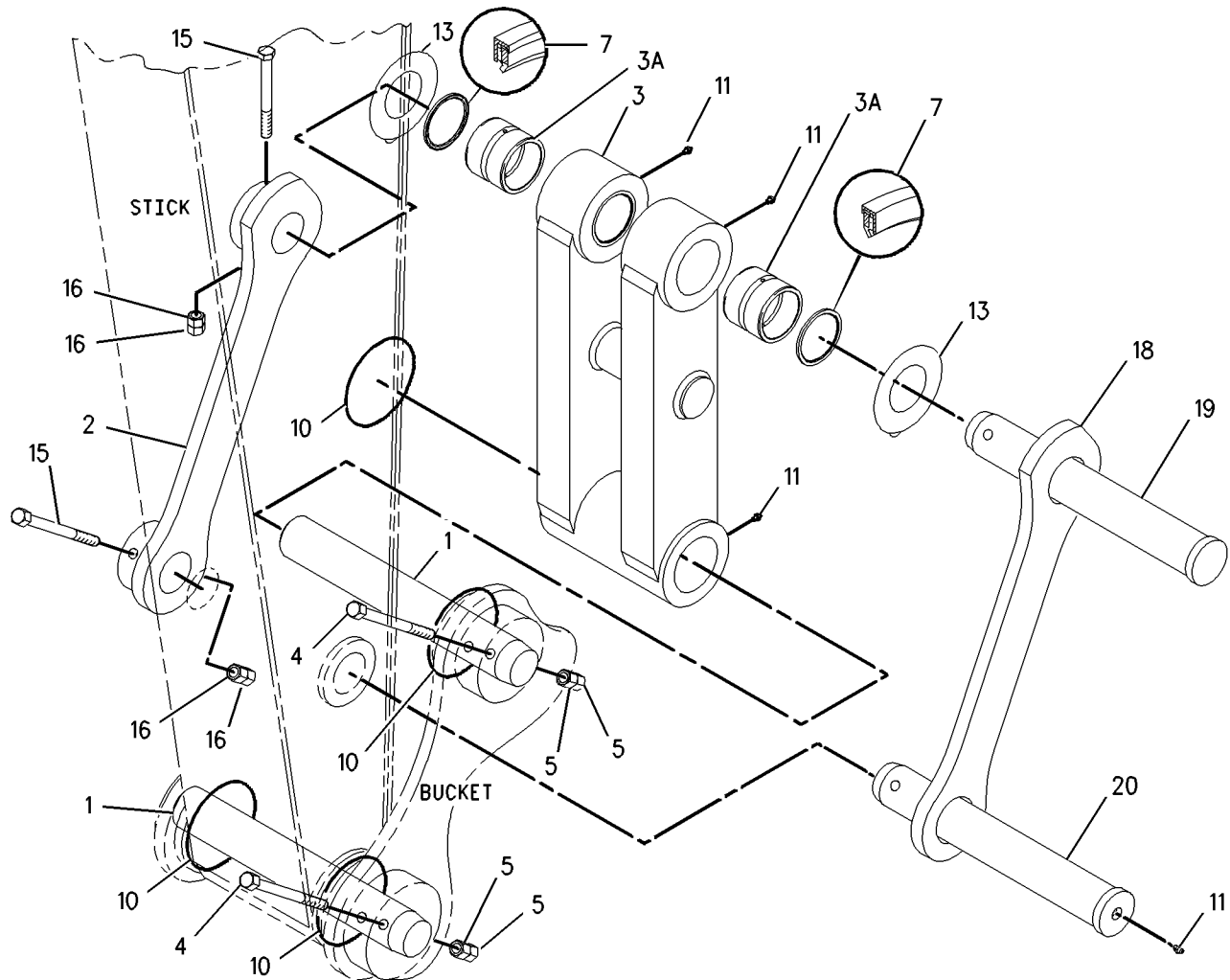
B-USE AS REQUIRED

M-METRIC PART

IMPLEMENTS

176-2241 LINKAGE GP-BUCKET (contd.)

i01537053



GRAPHIC #1

g00745252

IMPLEMENTS

150-4580 ROTATOR GP-GRAPPLE

S/N: CBY1-UP

PART OF 150-4578, 150-4579 GRAPPLE GP
AN ATTACHMENT

SMCS-6307

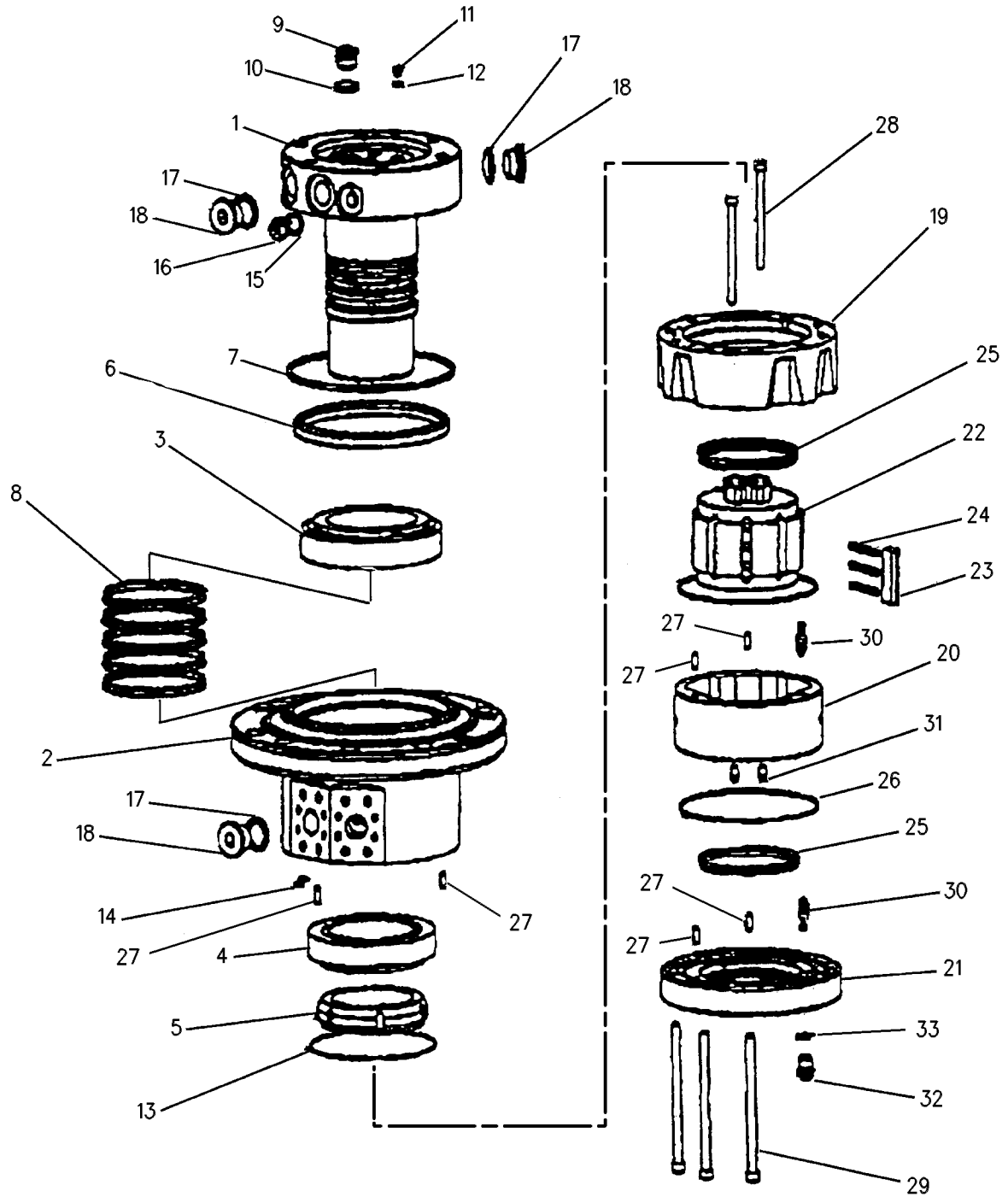
i01549170

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE
	NO	REF			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	150-4532	1	SHAFT-MAIN						
	2	1	150-4533	1	HOUSING-SWIVEL						
	3	1	150-4534	1	BEARING-TAPERED ROLLER						
	4	1	150-4535	1	BEARING-TAPERED ROLLER						
	5	1	150-4538	1	LOCKNUT						
	6	1	150-4539	1	SEAL-WIPER						
	7	1	150-4540	1	SEAL-O-RING						
	8	1	150-4541	5	RING-GUIDE						
	9	1	150-4542	2	PLUG						
	10	1	150-4546	2	SEAL-BONDED						
	11	1	150-4543	4	PLUG						
	12	1	150-4547	4	SEAL-BONDED						
	13	1	150-4651	1	SEAL-O-RING						
	14	1	150-4552	2	SEAL-O-RING						
	15	1	150-4544	2	PLUG						
	16	1	150-4548	2	SEAL-BONDED						
	17	1	150-4549	6	SEAL-BONDED						
	18	1	150-4545	6	PLUG						
		1	150-4568	1	MOTOR GP-GEROTOR						
	19	1	150-4555	1	MOTOR-TOP COVER						
	20	1	150-4556	1	STATOR-FRAME						
	21	1	150-4582	1	COVER-MOTOR						
	22	1	150-4557	1	MOTOR-SHAFT						
	23	1	150-4558	9	VANE						
	24	1	150-4559	27	SPRING						
	25	1	150-4560	2	RING-GUIDE						
	26	1	150-4553	2	SEAL-O-RING						
	27	1	150-4561	6	PIN-ROLL						
	28	1	150-4562	2	SCREW						
	29	1	150-4563	12	SCREW						
	30	1	150-4565	2	VALVE-PRESSURE						
	31	1	150-4566	2	VALVE						
	32	1	150-4567	1	CUP						
	33	1	150-4550	1	SEAL-BONDED						
F		1	200-2667	1	KIT-SEAL						
F - NOT SHOWN											

IMPLEMENTS

150-4580 ROTATOR GP - GRAPPLE (contd.)

i01549170



GRAPHIC #1

g00456166

IMPLEMENTS

197-3281 STICK AR

S/N: BPH1-UP; CAM1-UP
AN ATTACHMENT

SMCS-6502

i01491317

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	104-8892	1	LINES GP-STICK						460
Y	179-5137	1	STICK GP						610
Y-SEPARATE ILLUSTRATION									

MEMORANDA

IMPLEMENTS

134-3366 STICK GP

S/N: CBY1-UP

PART OF 192-2351 LINKAGE AR
AN ATTACHMENT

SMCS-6502

i00617716

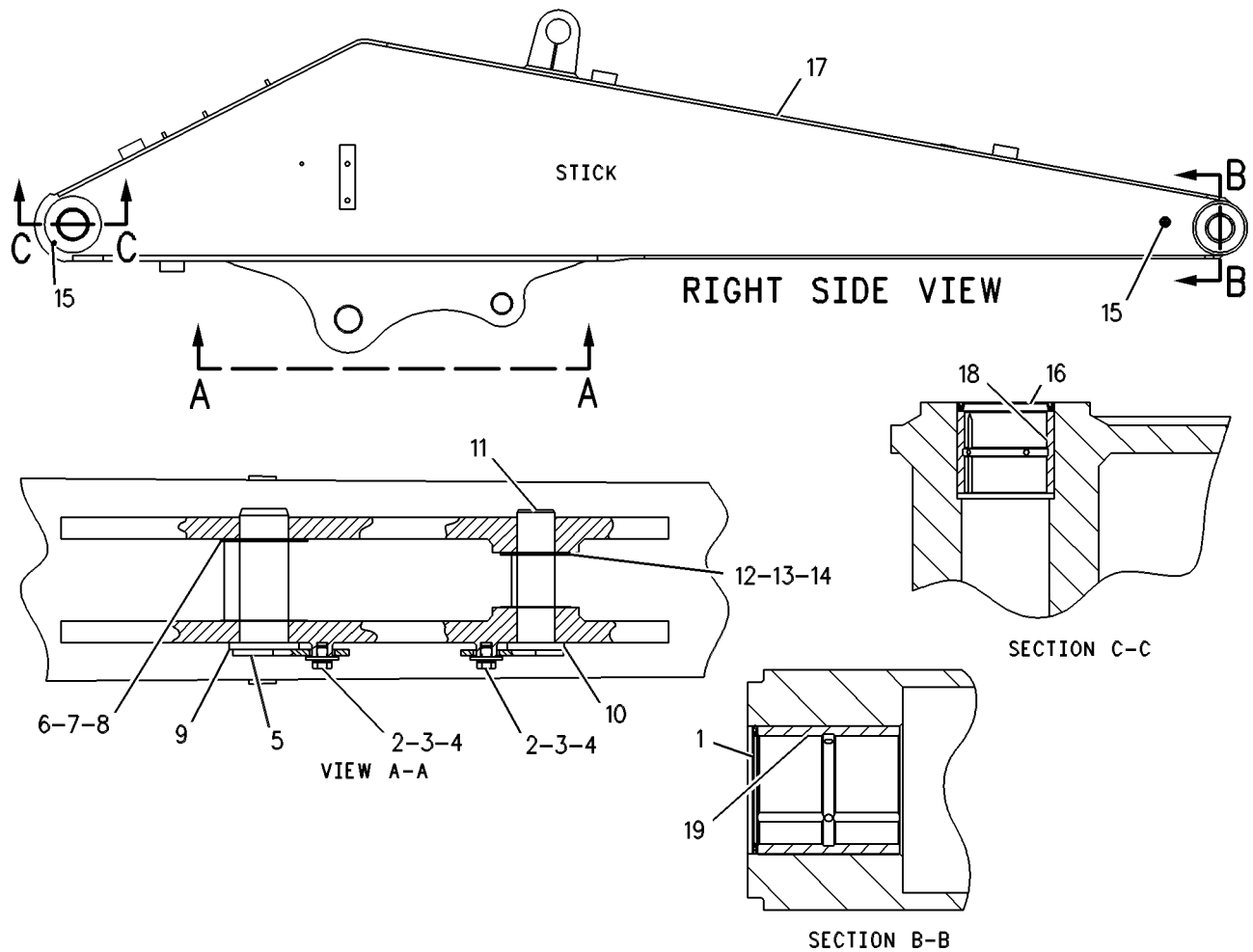
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	096-0854	2	SEAL-LIP						
M	2	1	8T-4780	2	BOLT (M20X2.5X30MM)						
	3	1	8T-4123	2	WASHER-PLATED (3.5MM THK)						
	4	1	093-0349	2	WASHER (6.0MM THK)						
	5	1	113-2963	1	PIN AS						
B	6	1	093-0084	2	SHIM (1.0MM THK)						
B	7	1	7Y-2497	1	SHIM (1.6MM THK)						
B	8	1	093-0116	1	SHIM (2.0MM THK)						
	9	1	093-0366	1	SPACER (12MM THK)						
	10	1	118-5982	1	SPACER (14MM THK)						
	11	1	134-4022	1	PIN AS						
B	12	1	093-0086	2	SHIM (1.0MM THK)						
B	13	1	093-0118	1	SHIM (2.0MM THK)						
B	14	1	7Y-2496	1	SHIM (1.6MM THK)						
	15	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)						
	16	1	7X-4803	2	SEAL-LIP						
	17	1	134-3367	1	STICK & BEARING AS						
	18	1	128-9863	2	BEARING-SLEEVE (90.27MM OD)						
	19	1	128-9883	2	BEARING-SLEEVE (95.18MM OD)						

B-USE AS REQUIRED
M-METRIC PART

IMPLEMENTS

134 - 3366 STICK GP (contd.)

i00617716



GRAPHIC #1

g00276785

IMPLEMENTS

139-8610 STICK GP

S/N: CBY1-UP

PART OF 192-2352 LINKAGE AR-LOG LOADER
AN ATTACHMENT

SMCS-6502

i00617927

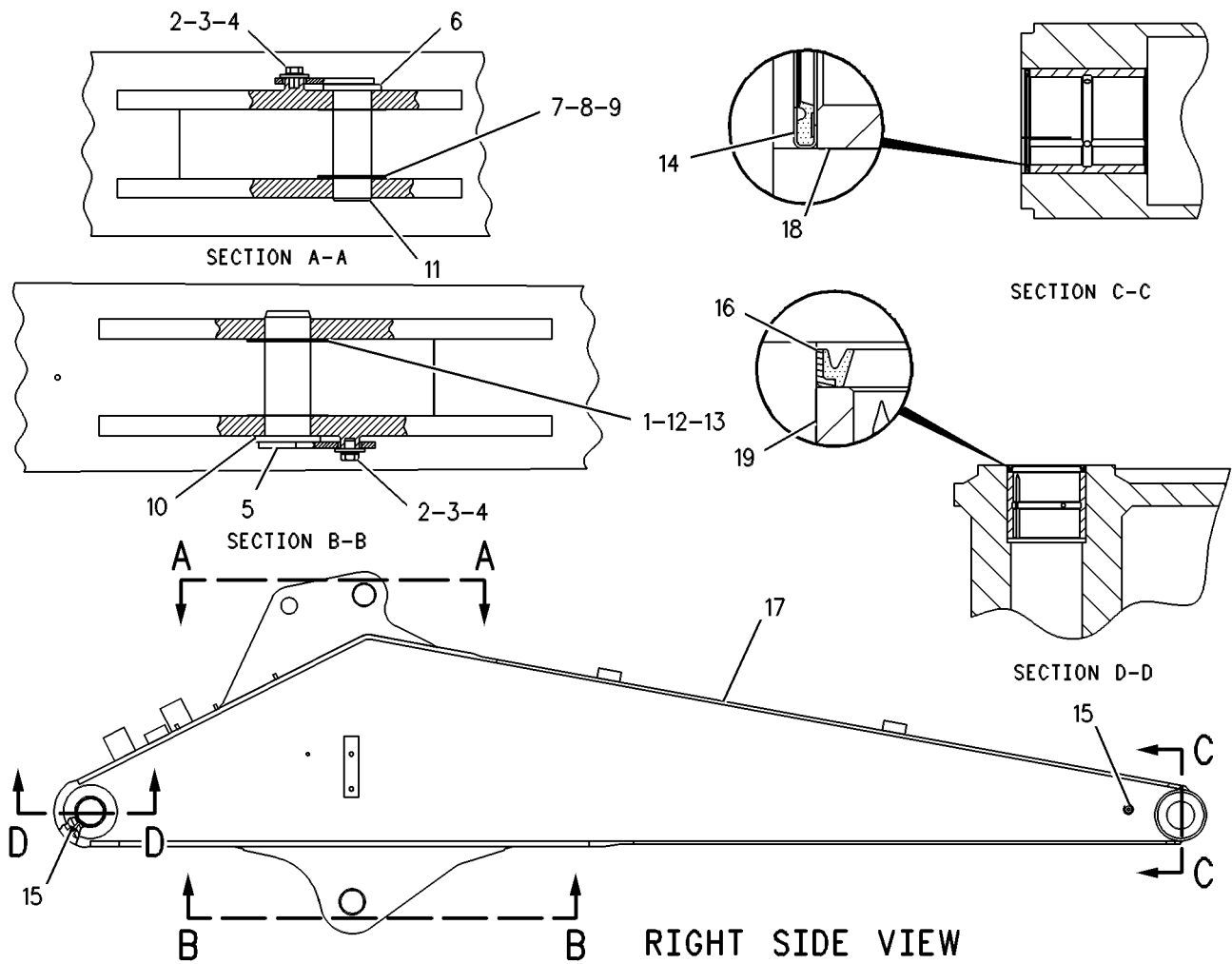
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	7Y-2497	1	SHIM (1.6MM THK)						
M	2	1	8T-4780	2	BOLT (M20X2.5X30MM)						
	3	1	8T-4123	2	WASHER-PLATED (3.5MM THK)						
	4	1	093-0349	2	WASHER (6.0MM THK)						
	5	1	113-2963	1	PIN AS						
	6	1	093-0363	1	SPACER (12MM THK)						
B	7	1	093-0083	2	SHIM (1.0MM THK)						
B	8	1	093-0115	1	SHIM (2.0MM THK)						
B	9	1	7Y-2498	1	SHIM (1.6MM THK)						
	10	1	093-0366	1	SPACER (12MM THK)						
	11	1	4I-4618	1	PIN AS						
B	12	1	093-0084	2	SHIM (1.0MM THK)						
B	13	1	093-0116	1	SHIM (2.0MM THK)						
	14	1	096-0854	2	SEAL-LIP						
	15	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)						
	16	1	7X-4803	2	SEAL-LIP						
	17	1	139-8612	1	STICK & BEARING AS						
	18	1	128-9883	2	BEARING-SLEEVE (95.18MM OD)						
	19	1	128-9863	2	BEARING-SLEEVE (90.27MM OD)						

B-USE AS REQUIRED
M-METRIC PART

IMPLEMENTS

139-8610 STICK GP (contd.)

i00617927



GRAPHIC #1

g00276712

IMPLEMENTS

179-5137 STICK GP

S/N: BPH1-UP; CAM1-UP

2.95M REACH. S FAMILY

PART OF 197-3281 STICK AR

AN ATTACHMENT

SMCS-6502

i01515398

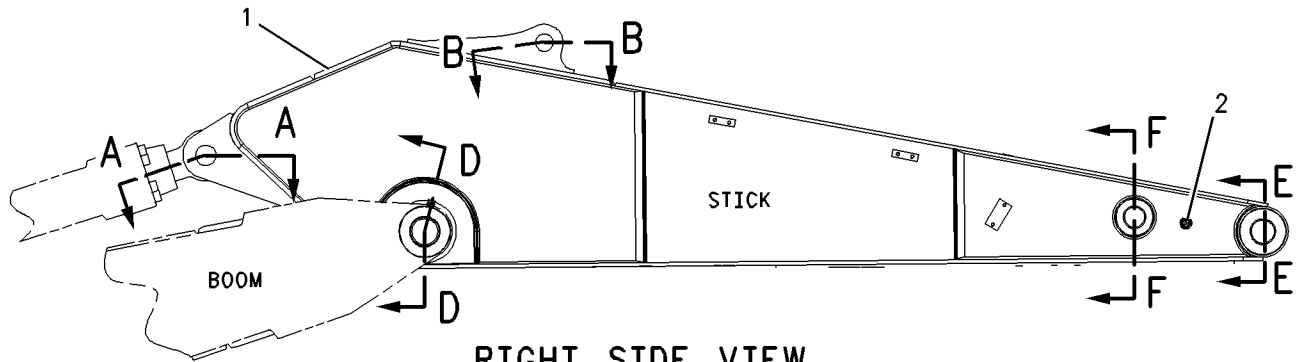
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-5138	1	STICK & BEARING AS						
	1A	1	129-7768	2	BEARING-SLEEVE						
	1B	1	163-3744	2	BEARING-SLEEVE						
	1C	1	163-3749	2	BEARING-SLEEVE						
	2	1	3B-8489	3	FITTING-GREASE						
	3	1	096-0854	2	SEAL-LIP TYPE						
	4	1	093-1434	2	SEAL-LIP						
	5	1	4I-4809	1	PIN AS						
	6	1	4I-4620	1	PIN AS						
M	7	1	8T-4780	2	BOLT (M20X2.5X30MM)						
	8	1	093-0349	2	WASHER (6.0MM THK)						
	9	1	8T-4123	2	WASHER-PLATED (22X35X3.5MM THK)						
	10	1	118-5982	1	SPACER (14MM THK)						
	11	1	093-0363	1	SPACER (12MM THK)						
	12	1	166-1495	2	SEAL-LIP TYPE						
	13	1	166-1486	2	SHIM (2.0MM THK)						

M-METRIC PART

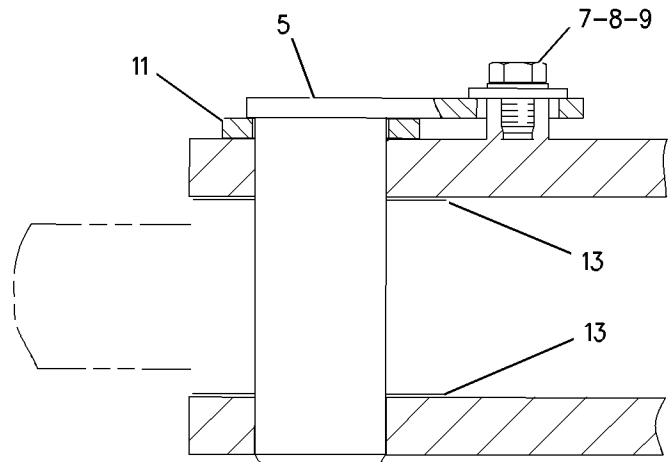
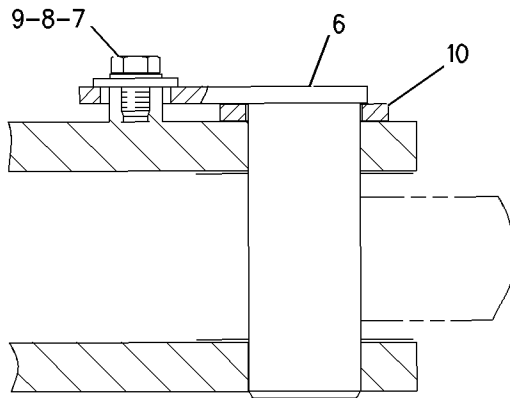
IMPLEMENTS

179-5137 STICK GP (contd.)

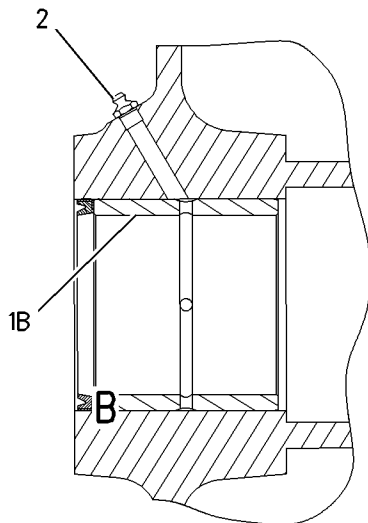
i01515398



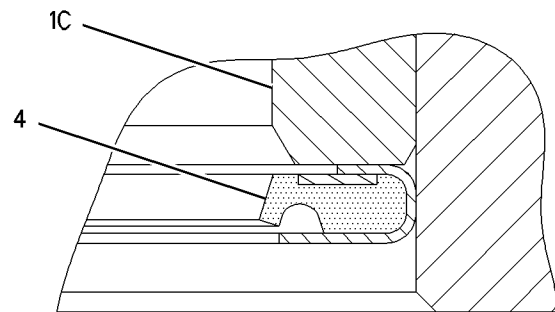
RIGHT SIDE VIEW



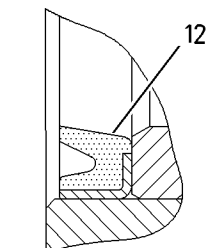
SECTION A-A



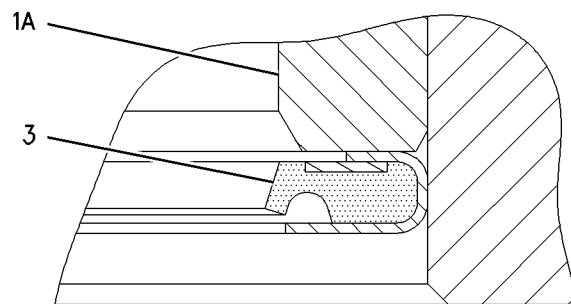
SECTION D-D



SECTION F-F



VIEW OF AREA B



SECTION E-E

GRAPHIC #1

g00797788

WORK TOOLS

150-4578 GRAPPLE GP

S/N: CBY1-UP

B52

AN ATTACHMENT

SMCS-6307

i00984680

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	133-3773	1	HEAD AS-GRAPPLE	
	2	1	133-3774	1	HEAD AS-GRAPPLE	
Y	3	1	150-4580	1	ROTATOR GP-GRAPPLE	602
	4	1	133-3772	1	CROSSHEAD AS	
	5	1	122-9495	1	LEG-GRAPPLE	
	6	1	122-9496	1	LEG-GRAPPLE	
Y	7	1	150-4569	2	CYLINDER GP-GRAPPLE	318
	8	1	7K-0078	8	BEARING-SLEEVE	
	9	1	122-9502	2	PIN	
	10	1	122-9504	1	PIN	
	11	1	122-9494	1	PIN	
	12	1	122-9500	2	PIN	
	13	1	133-5338	1	PIN AS	
M	14	1	125-2117	6	BOLT-SOCKET HEAD (M24X3X70MM)	
M	15	1	9X-2404	6	BOLT-SOCKET HEAD (M20X2.5X90MM)	
	16	1	8T-3282	6	WASHER-HARD (3.5MM THK)	
	17	1	133-3775	2	BLOCK-PORT	
M	18	1	6V-4249	8	BOLT (M10X50MM)	
	19	1	6V-5839	8	WASHER (2.5MM THK)	
	20	1	4J-0522	2	SEAL-O-RING (37.69MM ID)	
	21	1	126-7635	4	ADAPTER	
	22	1	6V-8398	6	SEAL-O-RING (12.47MM ID)	
	23	1	3K-0360	6	SEAL-O-RING (16.36MM ID)	
	24	1	6V-8639	4	CONNECTOR	
I	25	1	133-5336	2	HOSE AS	
	26	1	123-2913	5	PIN-KEEPER	
	27	1	9X-8885	5	BOLT	
	28	1	5P-8248	5	WASHER-HARD (3.5MM THK)	
	29	1	8T-7913	2	ADAPTER	
	30	1	165-8827	1	HOSE AS	
	31	1	6V-0407	2	SEAL-BONDED	
	32	1	6V-9830	2	CAP AS	
	33	1	8T-7916	2	ADAPTER	
	34	1	6V-9004	2	ELBOW-45 DEGREE (1 1/16-12 THD)	
	35	1	6V-0409	2	SEAL-BONDED	
	36	1	3D-2824	2	SEAL-O-RING (23.47MM ID)	
	37	1	6V-9746	2	SEAL-O-RING (18.94MM ID)	
	38	1	6V-9832	2	CAP AS	
	39	1	1A-5405	4	BOLT	
	40	1	2H-3789	4	NUT (5/8-11 THD)	
	41	1	6V-9002	2	ELBOW-45 DEGREE (3/4-16 THD)	
	42	1	3B-8489	8	FITTING-GREASE (1/8-27 THD)	
I	43	1	135-0464	1	HOSE AS	

I-SEE HOSE FABRICATION GUIDE

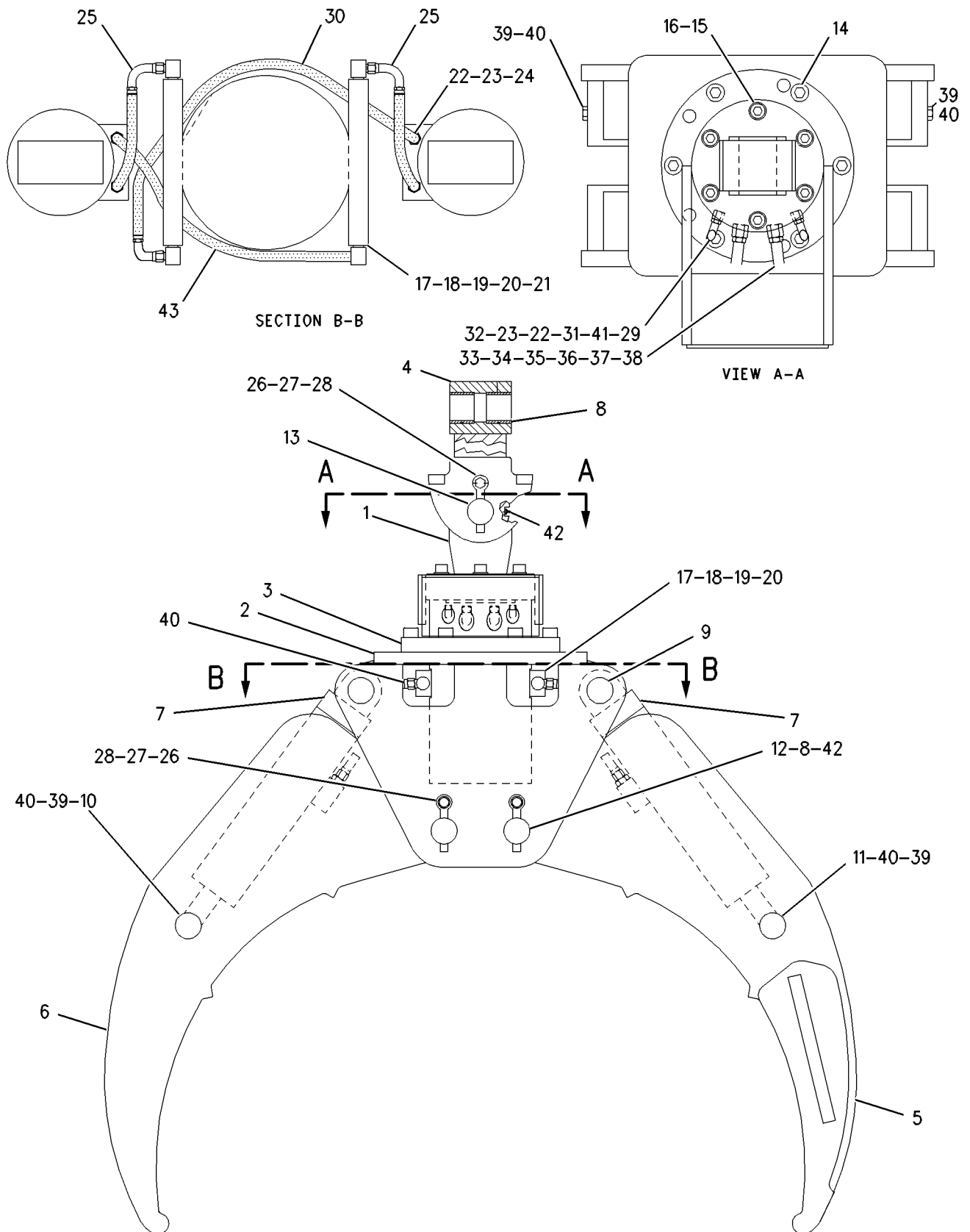
M-METRIC PART

Y-SEPARATE ILLUSTRATION

WORK TOOLS

150-4578 GRAPPLE GP (contd.)

i00984680



GRAPHIC #1

g00501244

WORK TOOLS

150-4579 GRAPPLE GP

S/N: CBY1-UP

B60

AN ATTACHMENT

SMCS-6307

i00984688

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-3773	1	HEAD AS-GRAPPLE						
	2	1	133-1802	1	LEG-GRAPPLE						
	3	1	133-1801	1	LEG-GRAPPLE						
	4	1	133-3772	1	CROSSHEAD AS						
	5	1	7K-0078	8	BEARING-SLEEVE						
	6	1	133-5338	1	PIN AS						
	7	1	123-2913	5	PIN-KEEPER						
	8	1	9X-8885	5	BOLT						
	9	1	5P-8248	5	WASHER-HARD (3.5MM THK)						
	10	1	3B-8489	8	FITTING-GREASE (1/8-27 THD)						
	11	1	122-9502	2	PIN						
	12	1	2H-3789	4	NUT (5/8-11 THD)						
	13	1	6V-9002	2	ELBOW-45 DEGREE (3/4-16 THD)						
	14	1	122-9504	1	PIN						
	15	1	1A-5405	4	BOLT						
	16	1	133-5337	1	PIN						
	17	1	133-3774	1	HEAD AS-GRAPPLE						
	18	1	122-9500	2	PIN						
Y	19	1	150-4580	1	ROTATOR GP-GRAPPLE						602
M	20	1	125-2117	6	BOLT-SOCKET HEAD (M24X3X70MM)						
	21	1	8T-3282	6	WASHER-HARD (3.5MM THK)						
M	22	1	9X-2404	6	BOLT-SOCKET HEAD (M20X2.5X90MM)						
M	23	1	6V-4249	8	BOLT (M10X50MM)						
	24	1	6V-5839	8	WASHER (2.5MM THK)						
Y	25	1	150-4569	2	CYLINDER GP-GRAPPLE						318
	26	1	6V-9832	2	CAP AS						
	27	1	6V-9746	2	SEAL-O-RING (18.94MM ID)						
	28	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						
	29	1	6V-0409	2	SEAL-BONDED						
	30	1	6V-9004	2	ELBOW-45 DEGREE (1 1/16-12 THD)						
	31	1	8T-7916	2	ADAPTER						
	32	1	6V-9830	2	CAP AS						
	33	1	3K-0360	6	SEAL-O-RING (16.36MM ID)						
	34	1	6V-8398	6	SEAL-O-RING (12.47MM ID)						
	35	1	6V-0407	2	SEAL-BONDED						
	36	1	165-8827	1	HOSE AS						
	37	1	8T-7913	2	ADAPTER						
	38	1	133-3775	2	BLOCK-PORT						
	39	1	4J-0522	2	SEAL-O-RING (37.69MM ID)						
	40	1	126-7635	4	ADAPTER						
I	41	1	133-5336	2	HOSE AS						
	42	1	6V-8639	4	CONNECTOR						
I	43	1	135-0464	1	HOSE AS						

I-SEE HOSE FABRICATION GUIDE

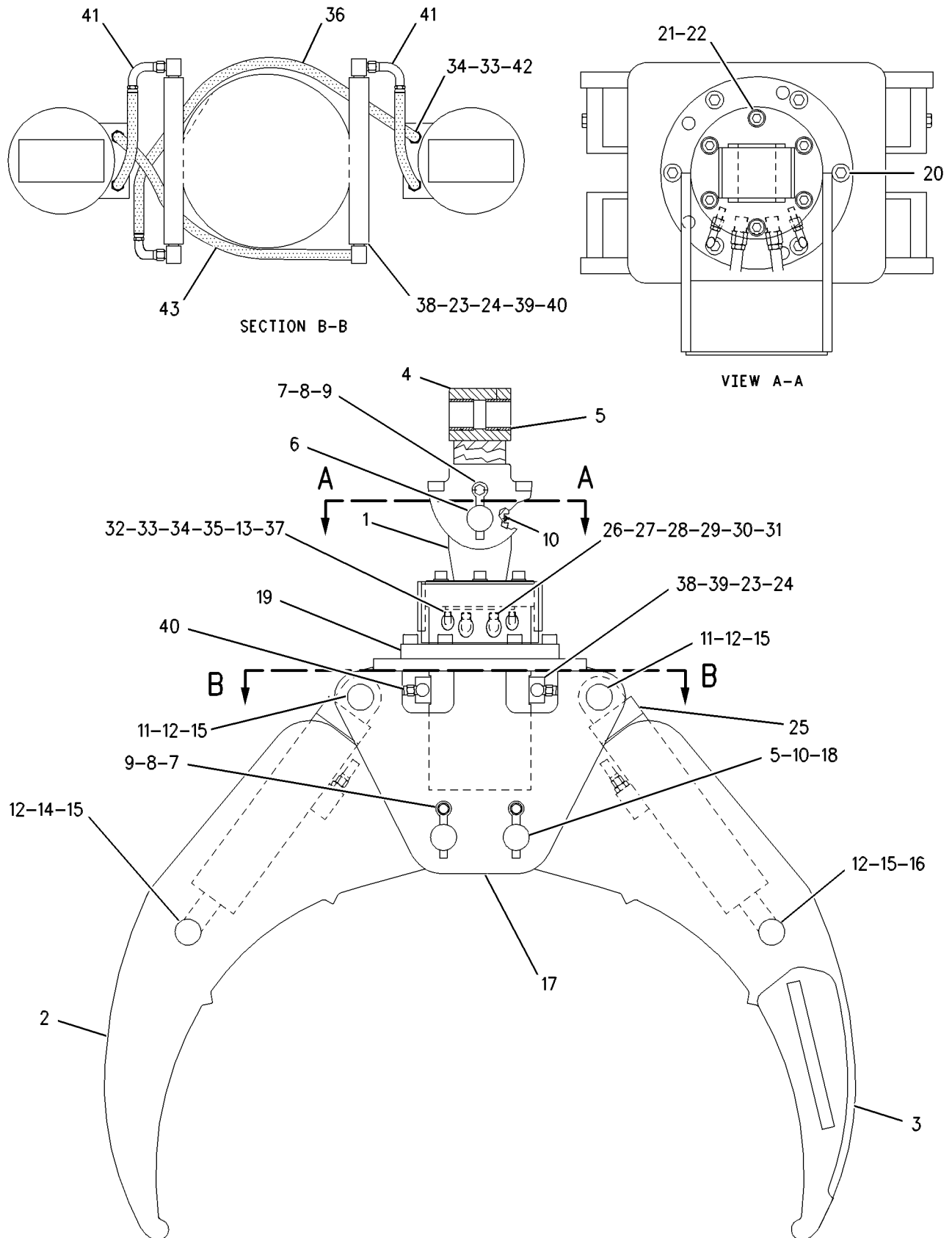
M-METRIC PART

Y-SEPARATE ILLUSTRATION

WORK TOOLS

150-4579 GRAPPLE GP (contd.)

i00984688



GRAPHIC #1

g00513151

WORK TOOLS

135-2056 HEEL GP

S/N: CBY1-UP

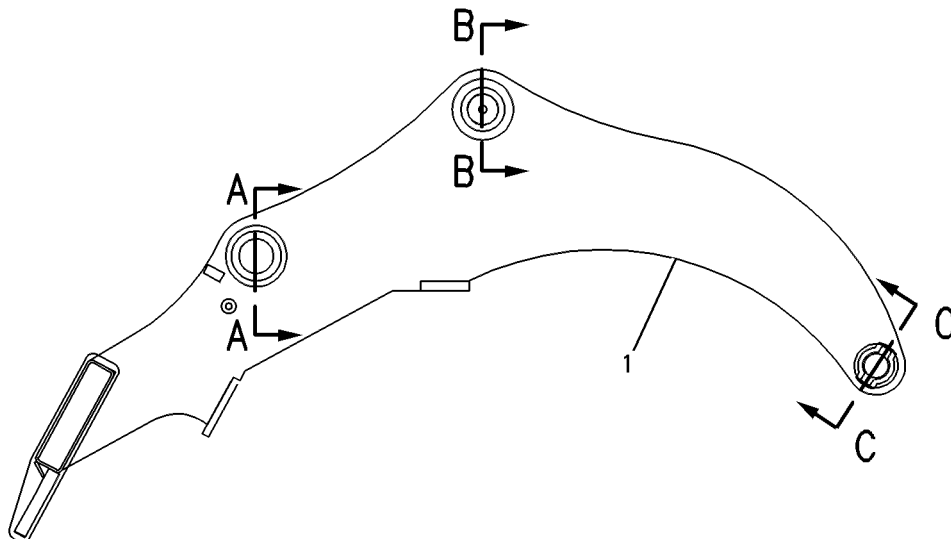
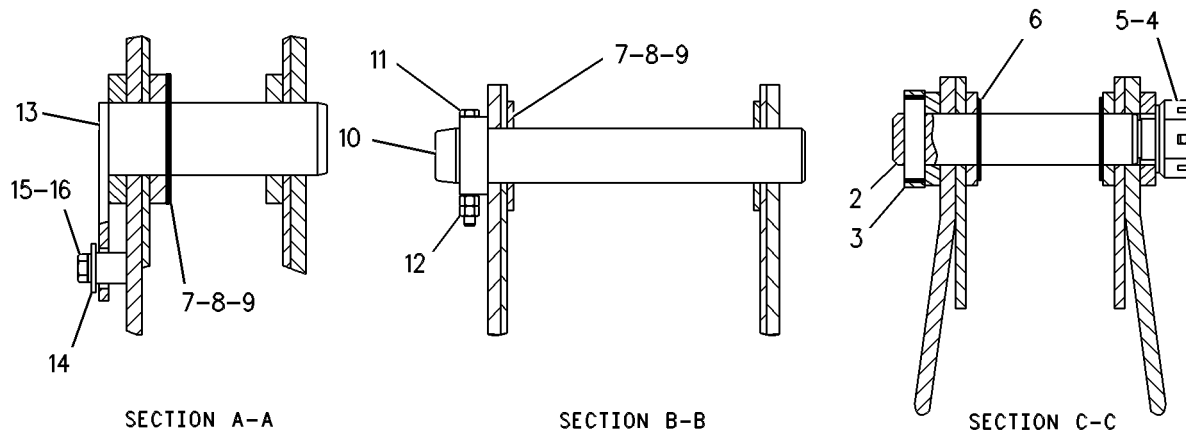
PART OF 192-2353 HEEL GP
AN ATTACHMENT

SMCS-6520

i00619286

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	135-2057	1	HEEL AS						
	2	1	105-7822	1	PIN						
	3	1	105-7823	1	PIN-CROSS						
	4	1	8C-9378	1	NUT						
	5	1	8C-9379	1	PIN-COTTER						
	6	1	7Y-1094	8	WASHER						
B	7	1	093-0083	4	SHIM (1.0MM THK)						
B	8	1	7Y-2498	2	SHIM (1.6MM THK)						
B	9	1	093-0115	2	SHIM (2.0MM THK)						
	10	1	087-5805	1	PIN						
M	11	1	7X-2559	1	BOLT (M16X2.0X160MM)						
M	12	1	8T-4132	2	NUT (M16X2.0 THD)						
	13	1	131-8552	1	PIN AS						
	14	1	093-0349	1	WASHER (6.0MM THK)						
M	15	1	8T-4780	1	BOLT (M20X2.5X30MM)						
	16	1	8T-4123	1	WASHER-PLATED (3.5MM THK)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00276776

WORK TOOLS

137-7609 HEEL GP

S/N: CBY1-UP

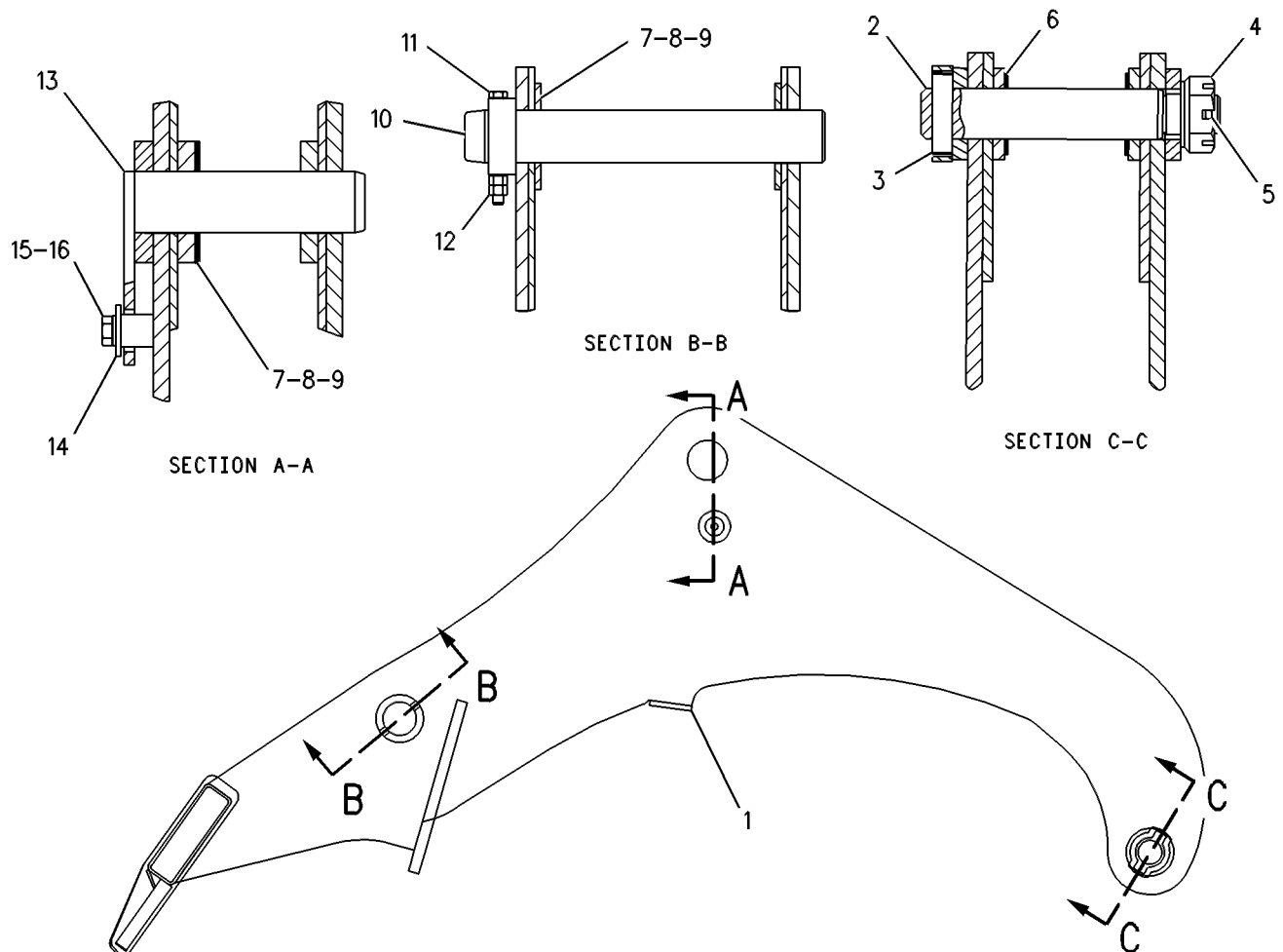
PART OF 192-2354 HEEL GP
AN ATTACHMENT

SMCS-6520

i00619385

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-7423	1	HEEL AS						
	2	1	105-7822	1	PIN						
	3	1	105-7823	1	PIN-CROSS						
	4	1	8C-9378	1	NUT						
	5	1	8C-9379	1	PIN-COTTER						
	6	1	7Y-1094	8	WASHER						
B	7	1	093-0083	4	SHIM (1.0MM THK)						
B	8	1	7Y-2498	2	SHIM (1.6MM THK)						
B	9	1	093-0115	2	SHIM (2.0MM THK)						
	10	1	087-5805	1	PIN						
M	11	1	7X-2559	1	BOLT (M16X2.0X160MM)						
M	12	1	8T-4132	2	NUT (M16X2.0 THD)						
	13	1	131-8552	1	PIN AS						
	14	1	093-0349	1	WASHER (6.0MM THK)						
M	15	1	8T-4780	1	BOLT (M20X2.5X30MM)						
	16	1	8T-4123	1	WASHER-PLATED (3.5MM THK)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00276711

WORK TOOLS

192-2353 HEEL GP

S/N: CBY1-UP

LOG LOADER (UNDER/UNDER)
AN ATTACHMENT

SMCS-6520

i01539500

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	135-2056	1	HEEL GP						616
Y	137-5158	1	LINES GP-HEEL						398
Y-SEPARATE ILLUSTRATION									

WORK TOOLS

192-2354 HEEL GP

S/N: CBY1-UP
LOG LOADER (OVER/UNDER)
AN ATTACHMENT

SMCS-6520

i01539503

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	137-7609	1	HEEL GP						617
Y	137-5163	1	LINES GP-HEEL						399
Y-SEPARATE ILLUSTRATION									

OPERATOR STATION

178-5524 ADJUSTMENT GP-CONSOLE

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 161-3759 CONSOLE GP-LH, 161-3760 CONSOLE GP-RH

SMCS-5258

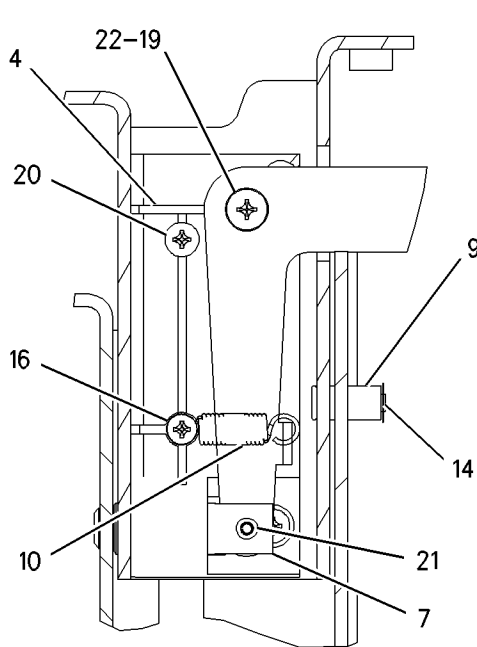
i01500705

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-5532	1	KNOB						
	2	1	178-5630	1	SUPPORT AS						
	3	1	178-5633	1	GROMMET						
	4	1	178-5634	1	SUPPORT						
	5	1	185-8169	1	SHAFT						
	6	1	185-8257	1	SUPPORT AS						
	7	1	185-8260	1	PIN						
	8	1	185-8261	1	LEVER						
	9	1	185-8262	1	SPACER						
	10	1	185-8263	1	SPRING						
	11	1	185-8264	1	SPRING						
	12	1	185-8265	1	BEARING						
	13	1	185-8266	1	SHEET						
	14	1	185-8285	1	NUT						
	15	1	185-8286	1	SCREW-MACHINE						
	16	1	185-8287	1	SCREW-PAN HEAD						
M	17	1	095-0736	1	SCREW-MACHINE (M5X0.8X10MM)						
	18	1	096-0015	1	RING-RETAINING						
	19	1	119-5026	1	SCREW-PAN HEAD (10-16X0.63 IN)						
M	20	1	6V-5210	3	SCREW-MACHINE (M4X0.7X10MM)						
	21	1	8C-5899	1	PIN-SPRING						
	22	1	8T-0328	1	WASHER-HARD (5.5X10X1MM THK)						
M	23	1	9X-2042	1	SCREW-TRUSS HEAD (M6X1X12MM)						
M-METRIC PART											

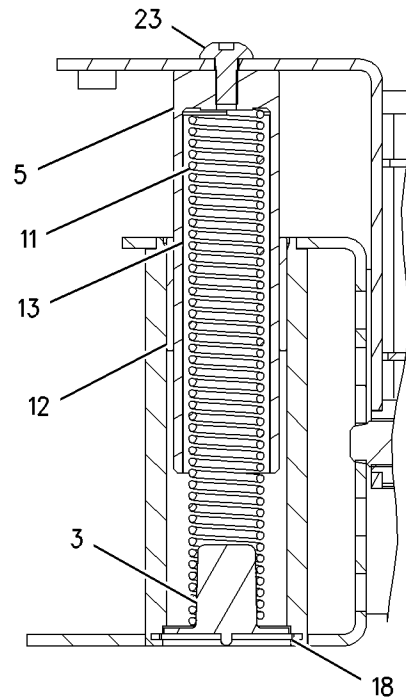
OPERATOR STATION

178 - 5524 ADJUSTMENT GP - CONSOLE (contd.)

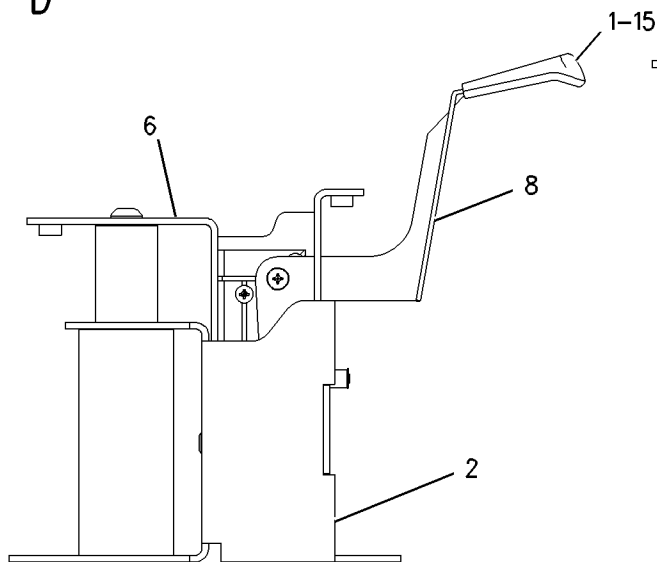
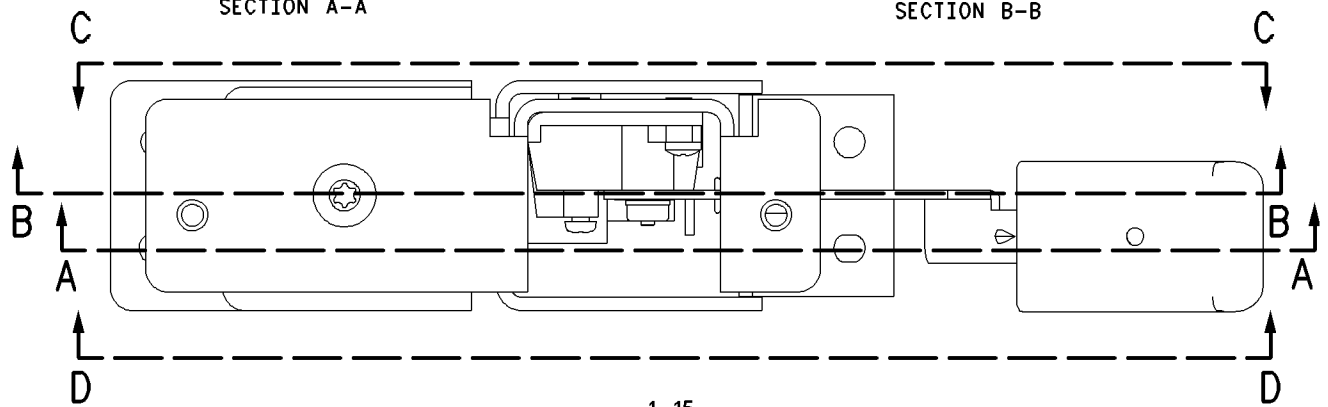
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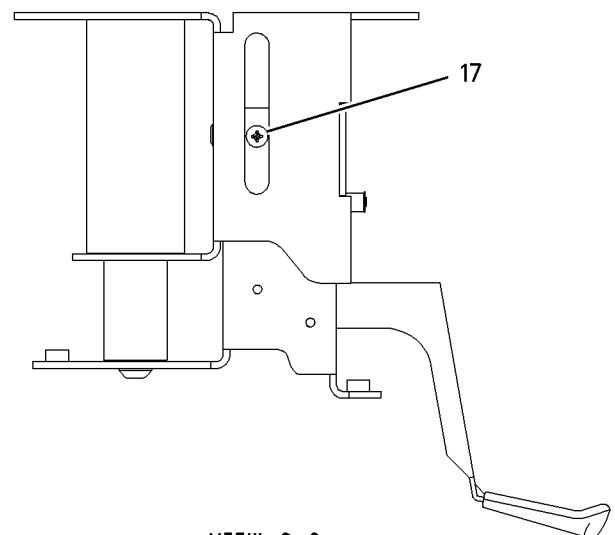
SECTION A-A



SECTION B-B



VIEW D-D



VIEW C-C

GRAPHIC #1

g00776510

OPERATOR STATION

168-4604 AIR CONDITIONER GP

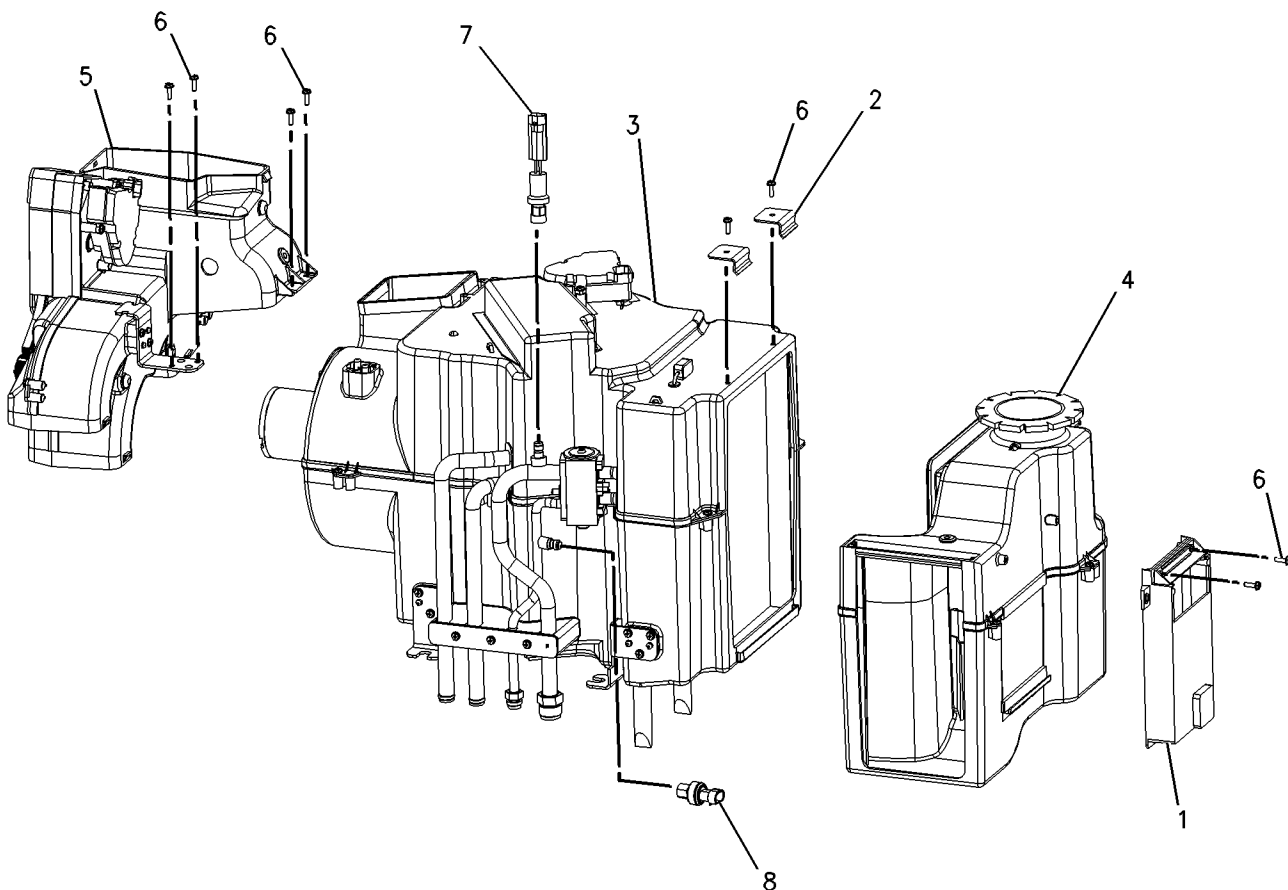
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 190-7375 AIR CONDITIONER GP

SMCS-1807, 7320, 7322

i01523804

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-2545	1	CONTROL AS						
	2	1	177-6691	2	PLATE						
Y	3	1	177-6729	1	CASE GP-HEATER & EVAPORATOR						632
Y	4	1	177-6730	1	HOUSING GP-AIR CONDITIONER (INLET AIR)						656
Y	5	1	177-6731	1	HOUSING GP-AIR CONDITIONER (OUTLET AIR)						657
M	6	1	187-7719	8	BOLT						
	7	1	189-3156	1	SWITCH AS-PRESSURE (LOW SUCTION CUT OFF)						
	8	1	189-3157	1	SWITCH AS-PRESSURE (HIGH DISCHARGE CUT OFF)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00793924

OPERATOR STATION

183-9683 AIR CONDITIONER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-1807, 7320, 7322

i01526266

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	185-4068	1	AIR CONDITIONER GP						624
Y	194-6992	1	DUCT GP-AIR						645
	110-6393	1	PLATE-INSTRUCTION (AIR CONDITIONER)						
Y-SEPARATE ILLUSTRATION									

OPERATOR STATION

185-4068 AIR CONDITIONER GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

MOUNTING

PART OF 183-9683 AIR CONDITIONER GP

SMCS-1807, 7320, 7322

i01509418

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	185-8154	1	FILTER-RECIRCULATION	
	2	1	190-7372	1	PLATE	
Y	3	1	190-7375	1	AIR CONDITIONER GP	626
	4	1	4V-5091	1	GROMMET	
	5	1	8T-4121	7	WASHER-HARD (11X21X2.5MM THK)	
M	6	1	8T-4137	4	BOLT (M10X1.5X20MM)	
M	7	1	8T-4191	3	BOLT (M10X1.5X16MM)	

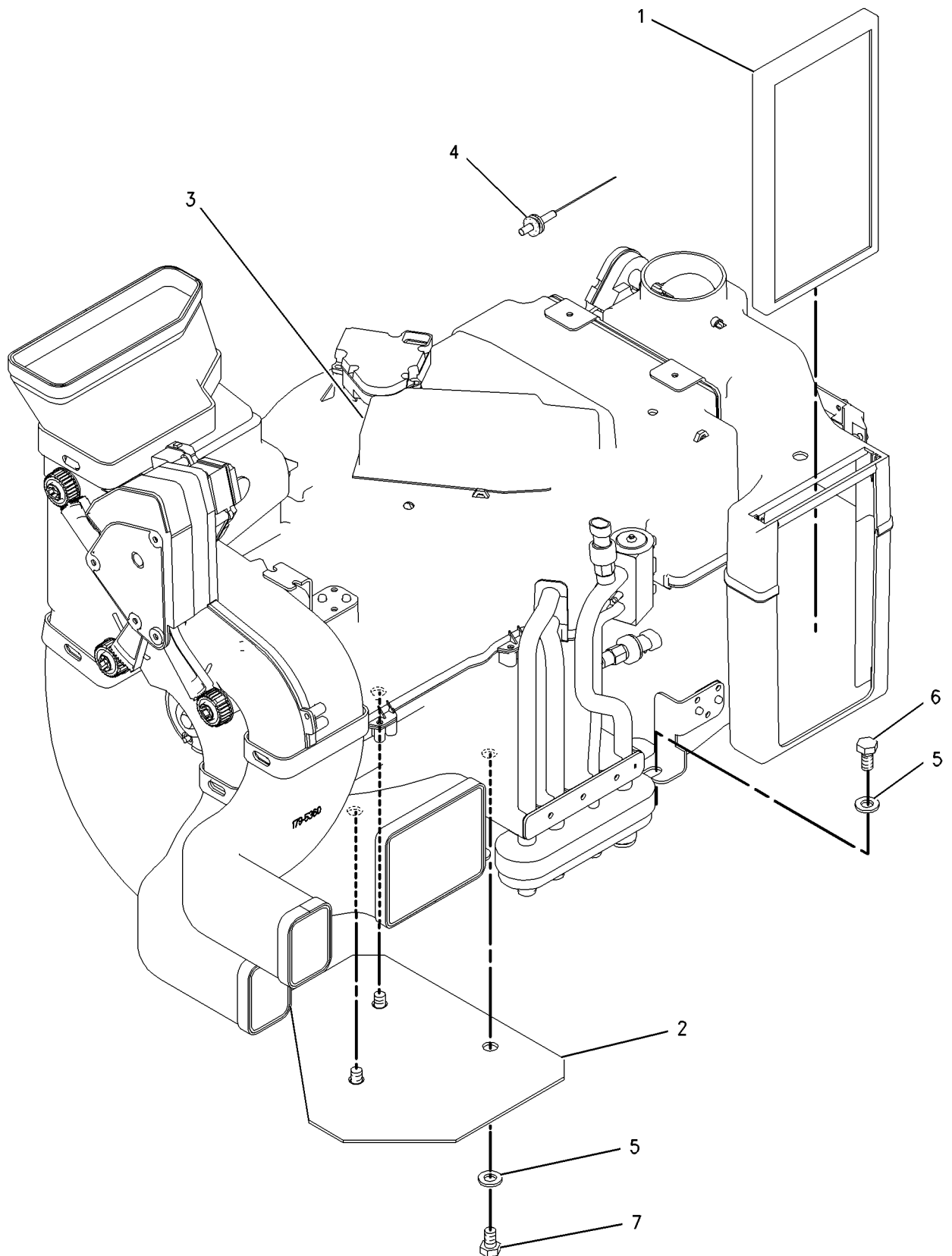
M-METRIC PART

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

185-4068 AIR CONDITIONER GP (contd.)

i01509418



GRAPHIC #1

g00798918

OPERATOR STATION

190-7375 AIR CONDITIONER GP

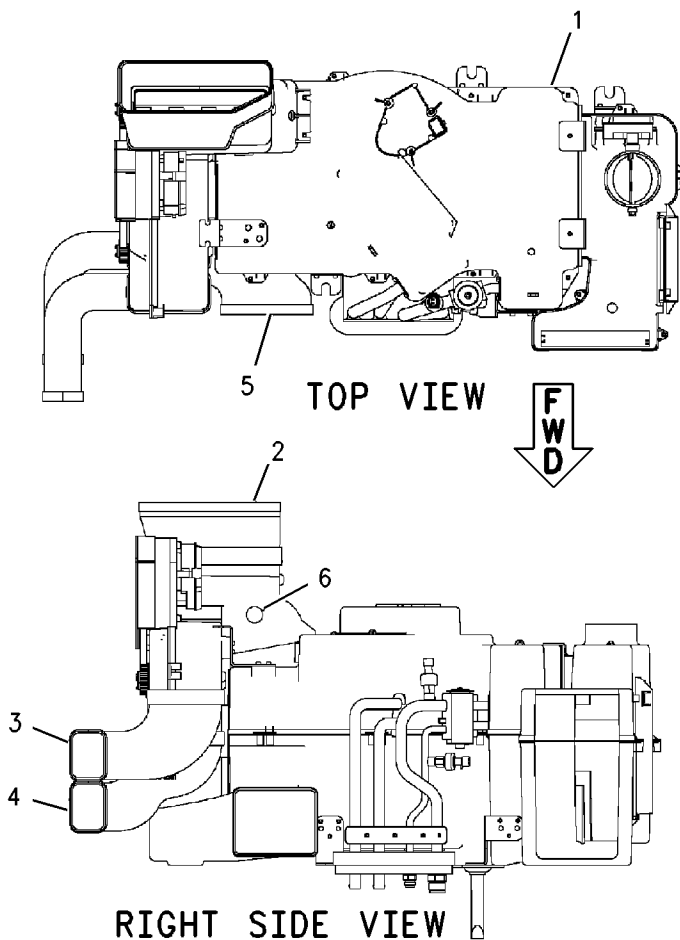
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 185-4068 AIR CONDITIONER GP

SMCS-1807, 7320, 7322

i01510812

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	168-4604	1	AIR CONDITIONER GP						622
	2	1	179-5359	1	DUCT AS						
	3	1	179-5360	1	DUCT AS						
	4	1	179-5361	1	DUCT AS						
	5	1	179-5363	1	DUCT AS						
	6	1	5K-3546	1	PLUG-BUTTON						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00786966

MEMORANDA

OPERATOR STATION

184-8376 BOX GP-STORAGE

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 184-8371 BOX & MTG GP-STORAGE

SMCS-7268

i01515423

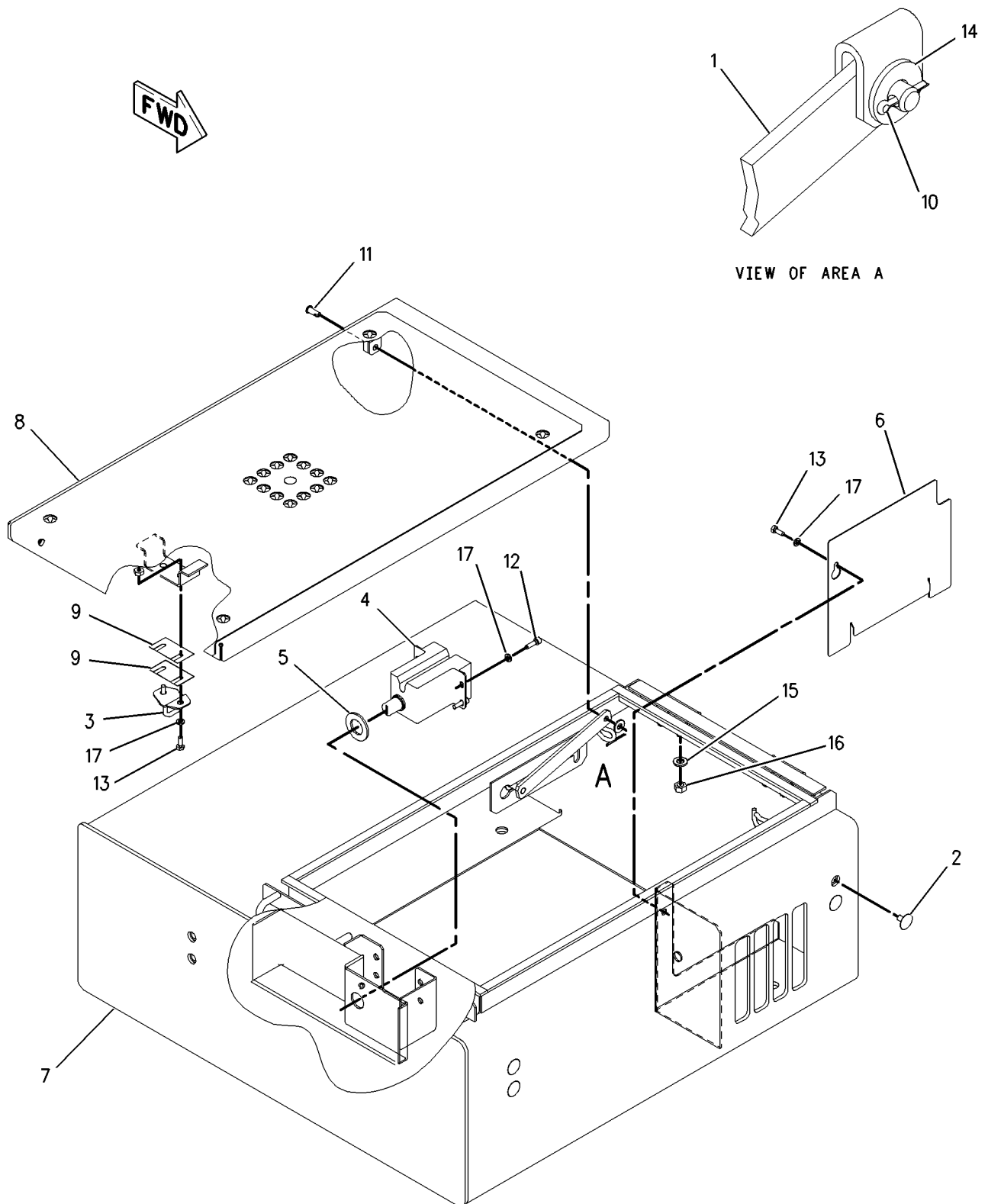
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4I-2187	1	SUPPORT AS						
		1	4B-4278	1	WASHER (10.2X20.5X1.6MM THK)						
	2	1	4I-5034	4	CLIP						
	3	1	170-2755	1	HOOK AS						
	4	1	170-2982	1	LOCK AS						
	5	1	170-2983	1	SEAL						
	6	1	170-2984	1	SHEET						
	7	1	184-8381	1	BOX AS						
M		1	6V-9632	5	NUT-WELD (M6X1 THD)						
		1	7T-1099	2	LINK						
M		1	8T-3597	6	NUT-WELD (M12X1.75 THD)						
Y	8	1	184-8386	1	COVER GP-STORAGE BOX						213
B	9	1	184-8850	2	SHIM (0.5MM THK)						
	10	1	095-0843	1	COTTER						
	11	1	096-3780	1	PIN-CLEVIS						
M	12	1	105-3487	4	BOLT-HEX SOCKET (M6X1.0X20.0MM)						
M	13	1	5C-9553	3	BOLT (M6X1X16MM)						
	14	1	5P-4116	1	WASHER-HARD (8.8X20.5X2MM THK)						
	15	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
M	16	1	8T-4133	4	NUT (M10X1.5 THD)						
	17	1	9X-8256	7	WASHER (6.6X12X2MM THK)						

B-USE AS REQUIRED
M-METRIC PART
Y-SEPARATE ILLUSTRATION

OPERATOR STATION

184-8376 BOX GP-STORAGE (contd.)

i01515423



GRAPHIC #1

g00786365

OPERATOR STATION

192-2333 CAB & MOUNTING GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-7301

i01547126

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	8T-4179	2	BOLT (M12X1.75X20MM)						
M	8T-4910	6	BOLT (M12X1.75X60MM)						
M	8T-6868	2	BOLT (M12X1.75X80MM)						
M	8T-4191	2	BOLT (M10X1.5X16MM)						
Y	192-2334	1	CAB GP						631
	171-7336	1	COVER						
Y	199-5818	1	COVER GP-STORAGE						644
	124-7346	2	LOCKWASHER						
	8Y-6967	4	LOUVER AS						
M	128-2136	4	SCREW-TRUSS HEAD						
M	128-2135	2	SCREW-TRUSS HEAD (M6)						
	8T-4223	10	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

192-2334 CAB GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 192-2333 CAB & MOUNTING GP

SMCS-7301

i01537761

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	198-8313	1	CAB GP						
	198-8314	1	DOOR GP-CAB						
	190-1113	1	WINDOW GP-FRONT						
Y	171-7408	1	WIPER GP-WINDOW						689
Y	192-2335	1	WIRING GP-CAB						180
Y-SEPARATE ILLUSTRATION									

OPERATOR STATION

177-6729 CASE GP-HEATER & EVAPORATOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 168-4604 AIR CONDITIONER GP

SMCS-7304, 7309, 7320, 7343

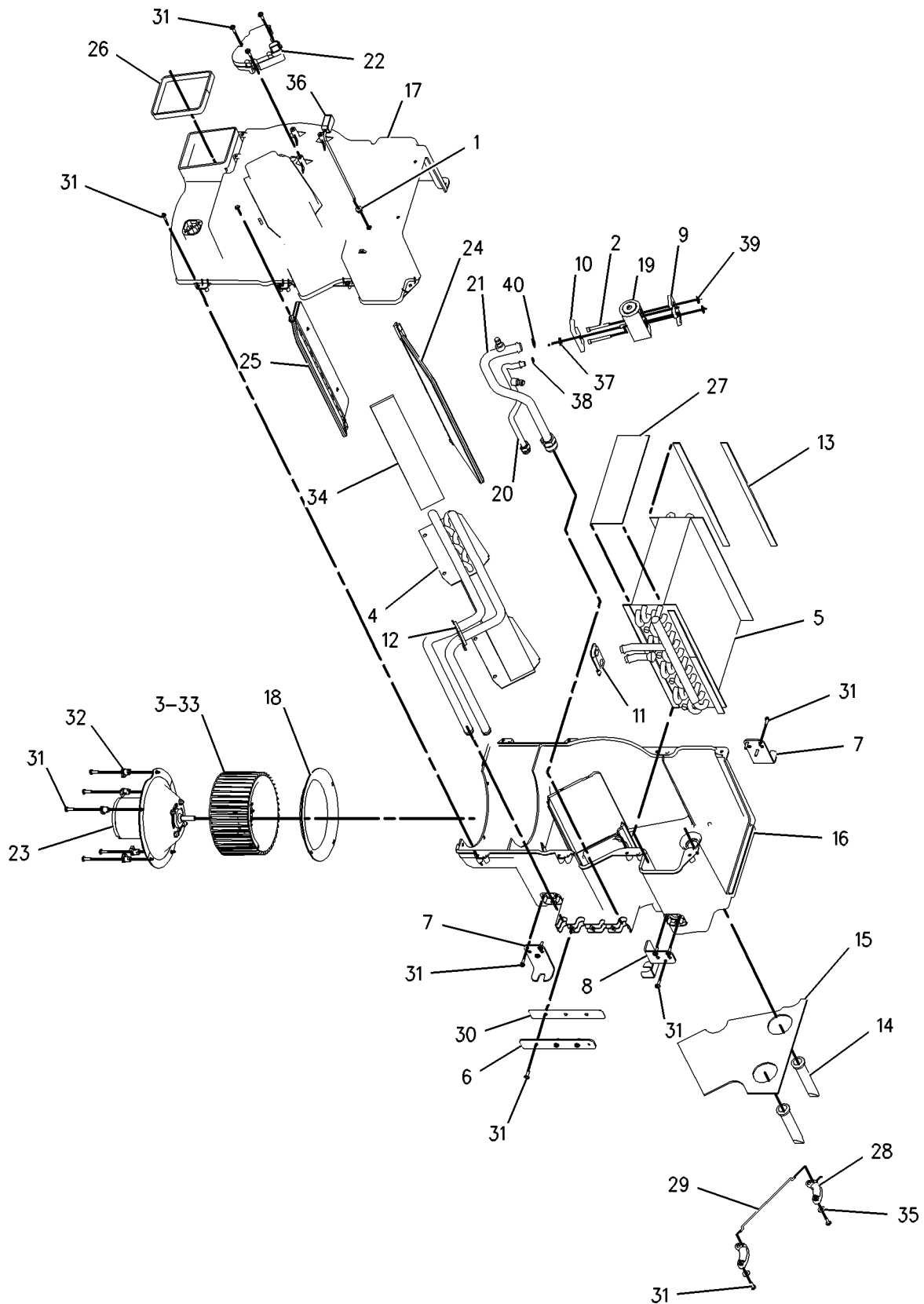
i01524175

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-8714	1	GROMMET						
	2	1	2R-8159	2	BOLT - SOCKET HEAD						
	3	1	037-4838	1	CLAMP						
	4	1	177-6687	1	COIL AS-HEATER						
	5	1	177-6688	1	COIL AS-EVAPORATOR						
	6	1	177-6689	1	PLATE						
	7	1	177-6690	2	PLATE						
	8	1	177-6692	1	PLATE						
	9	1	177-6693	1	PLATE						
	10	1	177-6694	1	PLATE						
	11	1	177-6695	1	GROMMET						
	12	1	177-6696	1	GROMMET						
	13	1	177-6698	4	GASKET						
	14	1	177-6700	2	TUBE - DRAIN						
	15	1	177-6701	1	GASKET						
	16	1	177-6707	1	HOUSING						
	17	1	177-6708	1	COVER						
	18	1	177-6710	1	RING						
	19	1	177-6723	1	VALVE						
	20	1	177-6725	1	TUBE						
	21	1	177-6726	1	TUBE						
	22	1	177-6727	1	ACTUATOR						
	23	1	177-6728	1	MOTOR AS						
		1	1M-1230	4	NUT & LOCK AS						
	24	1	177-6732	1	DOOR AS						
	25	1	177-6733	1	DOOR AS						
	26	1	179-4673	1	GASKET						
	27	1	179-4674	1	GASKET						
	28	1	179-4682	2	LEVER						
	29	1	179-4683	1	ROD						
	30	1	179-6136	1	GASKET						
M	31	1	187-7719	30	BOLT						
	32	1	189-2456	5	CLIP						
	33	1	191-0979	1	WHEEL - BLOWER						
	34	1	193-0702	1	GASKET						
	35	1	4B-4274	2	WASHER (5.5X13X1.2MM THK)						
	36	1	133-9014	1	SENSOR - TEMPERATURE						
	37	1	8T-4205	1	WASHER - HARD (7.2X14.5X2MM THK)						
	38	1	9X-7380	1	SEAL - O - RING						
	39	1	9X-7381	2	SEAL - O - RING						
	40	1	9X-7382	1	SEAL - O - RING						
M-METRIC PART											

OPERATOR STATION

177-6729 CASE GP-HEATER & EVAPORATOR (contd.)

i01524175



GRAPHIC #1

g00793971

OPERATOR STATION

171-9115 COMPRESSOR GP-REFRIGERANT

S/N: BPH1-UP; CAM1-UP; CBY1-UP

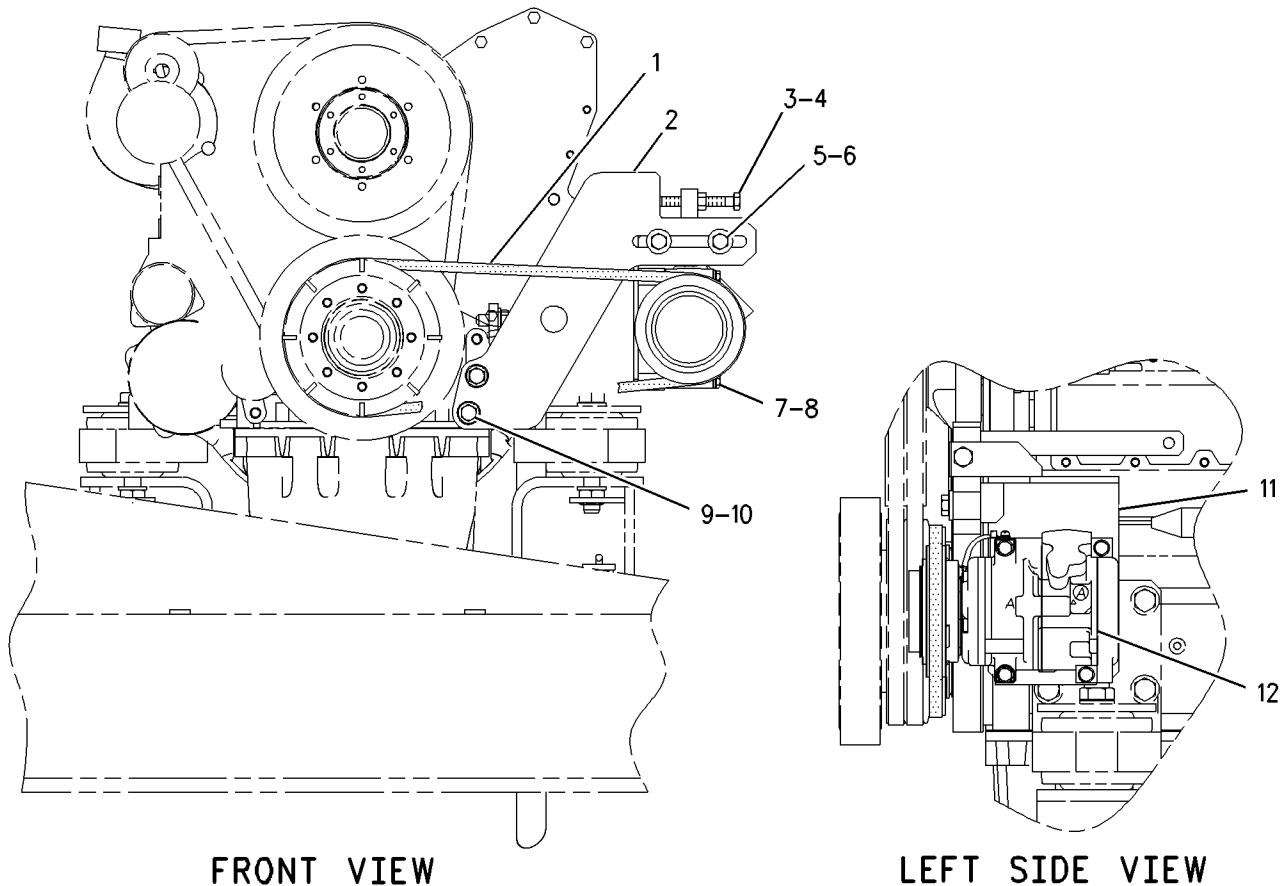
PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1802

i01479188

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5M-8135	1	V-BELT						
	2	1	178-6616	1	BRACKET AS-COMPRESSOR						
M	3	1	7Y-0589	1	BOLT (M12X1.75X90MM)						
M	4	1	8T-4244	1	NUT (M12X1.75 THD)						
M	5	1	8T-4194	2	BOLT (M12X1.75X50MM)						
	6	1	5P-1076	2	WASHER-HARD (13.5X30X4MM THK)						
M	7	1	8T-3647	4	BOLT (M8X1.25X80MM)						
	8	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
	9	1	8T-4223	2	WASHER-HARD (13.5X25.5X3MM THK)						
M	10	1	8T-6868	2	BOLT (M12X1.75X80MM)						
	11	1	196-8094	1	BRACKET AS-COMPRESSOR						
	12	1	176-1895	1	COMPRESSOR GP-REFRIGERANT						
		1	176-1920	1	COIL AS						
		1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						

M-METRIC PART



GRAPHIC #1

g00714922

OPERATOR STATION

176-1991 CONDENSER & MTG GP-REFRIGERANT

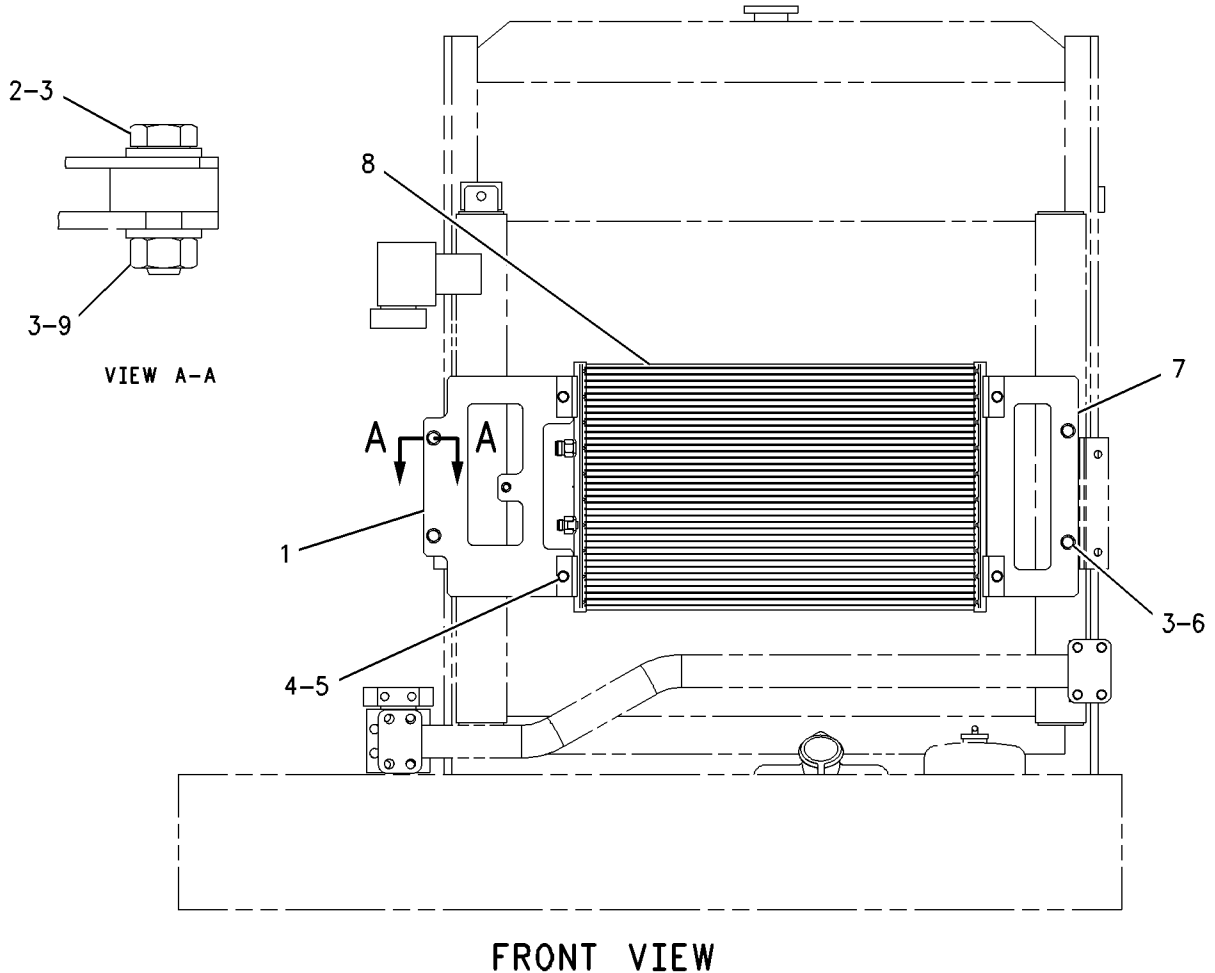
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 171-9106 INSTALLATION AR-ENGINE

SMCS-1805

i01412924

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-5620	1	BRACKET AS-CONDENSER						
M	2	1	8T-4196	2	BOLT (M10X1.5X35MM)						
	3	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)						
M	4	1	8T-4189	4	BOLT (M8X1.25X20MM)						
	5	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	6	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	7	1	178-5618	1	BRACKET AS-CONDENSER						
	8	1	164-0588	1	CONDENSER AS						
M	9	1	8T-4133	2	NUT (M10X1.5 THD)						

M-METRIC PART



GRAPHIC #1

g00713327

OPERATOR STATION

161-3759 CONSOLE GP-LH

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 161-3758 CONSOLE GP-OPERATOR

SMCS-5258

i01500711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
M	1	1	7Y-9096	1	SCREW-TRUSS HEAD	
M	2	1	128-2135	6	SCREW-TRUSS HEAD (M6)	
	3	1	178-5401	1	SUPPORT AS	
M		1	6V-9632	16	NUT-WELD (M6X1 THD)	
	4	1	178-5408	1	CUSHION AS	
	5	1	178-5426	9	SCREW-TAPPING	
	6	1	178-5519	1	COVER	
	7	1	178-5520	1	COVER	
	8	1	178-5521	1	COVER	
	9	1	178-5522	1	COVER	
Y	10	1	178-5524	1	ADJUSTMENT GP-CONSOLE	620
	11	1	178-5530	1	ASHTRAY	
	12	1	178-5531	1	CASE	
	13	1	178-5534	1	CASE	
	14	1	178-5627	1	HINGE	
	15	1	178-5628	1	STRIKER	
	16	1	178-5629	1	LATCH	
	17	1	185-8162	2	SCREW-MACHINE	
	18	1	185-8287	2	SCREW-PAN HEAD	
	19	1	196-1696	1	SPACER	
	20	1	119-5026	8	SCREW-PAN HEAD (10-16X0.63 IN)	
	21	1	155-7099	8	NUT	
M	22	1	9X-2042	4	SCREW-TRUSS HEAD (M6X1X12MM)	

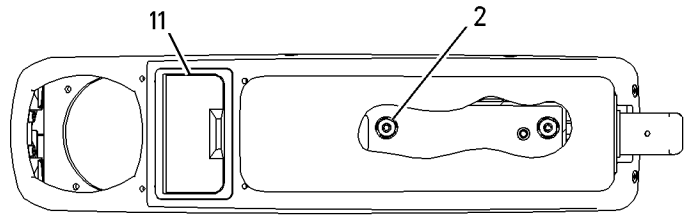
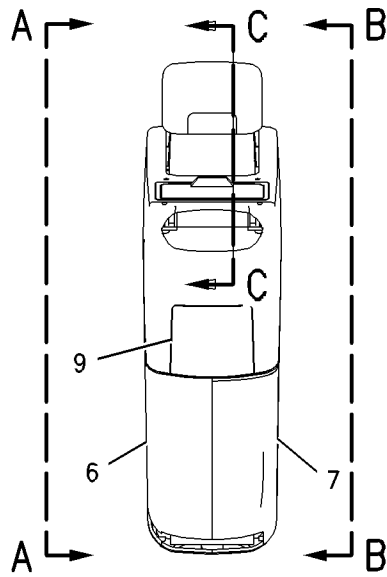
M-METRIC PART

Y-SEPARATE ILLUSTRATION

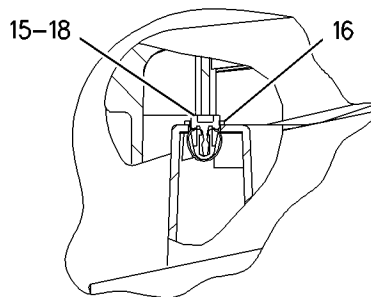
OPERATOR STATION

161-3759 CONSOLE GP - LH (contd.)

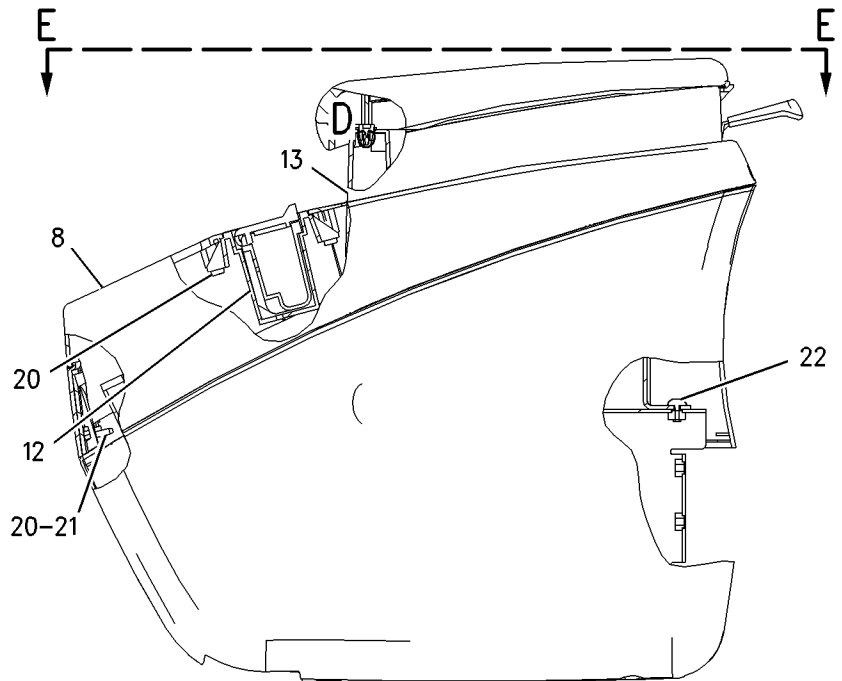
i01500711



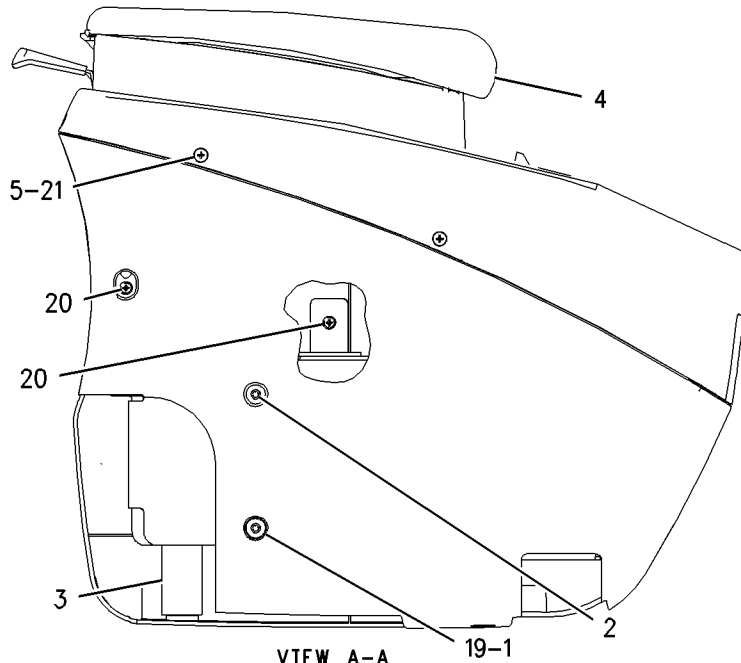
VIEW E-E



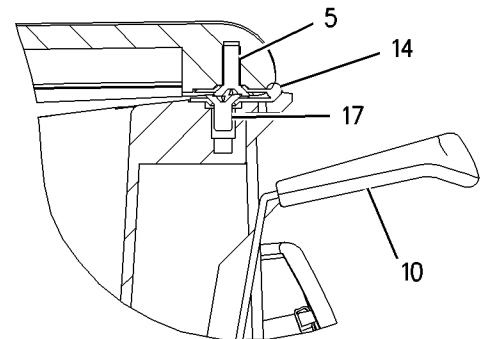
VIEW OF AREA D



VIEW B-B



VIEW A-A



SECTION C-C

GRAPHIC #1

g00786961

OPERATOR STATION

161-3758 CONSOLE GP-OPERATOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-5258

i01525780

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	161-3760	1	CONSOLE GP-RH						640
Y	2	1	161-3759	1	CONSOLE GP-LH						636
M	3	1	8T-4195	4	BOLT (M10X1.5X30MM)						
	4	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
	5	1	178-5523	2	COVER						
	6	1	176-1914	2	SUPPORT						
	7	1	176-1913	2	GUARD						
M	8	1	176-1915	2	SUPPORT						
	9	1	9X-2043	16	SCREW-TRUSS HEAD (M6X1X14MM)						
	10	1	176-1916	2	GROMMET						
	11	1	178-5423	2	GROMMET						
	12	1	178-5422	2	GROMMET						
	13	1	185-8161	2	INSULATOR						
	14	1	7K-1181	6	STRAP-CABLE						
	15	1	178-5408	1	CUSHION AS						
	16	1	178-5426	3	SCREW-TAPPING						
	17	1	178-5628	1	STRIKER						
	18	1	185-8287	2	SCREW-PAN HEAD						
	19	1	178-5627	1	HINGE						
	20	1	185-8162	2	SCREW-MACHINE						
	21	1	9X-2045	4	SCREW-TRUSS HEAD (M6X1X20MM)						

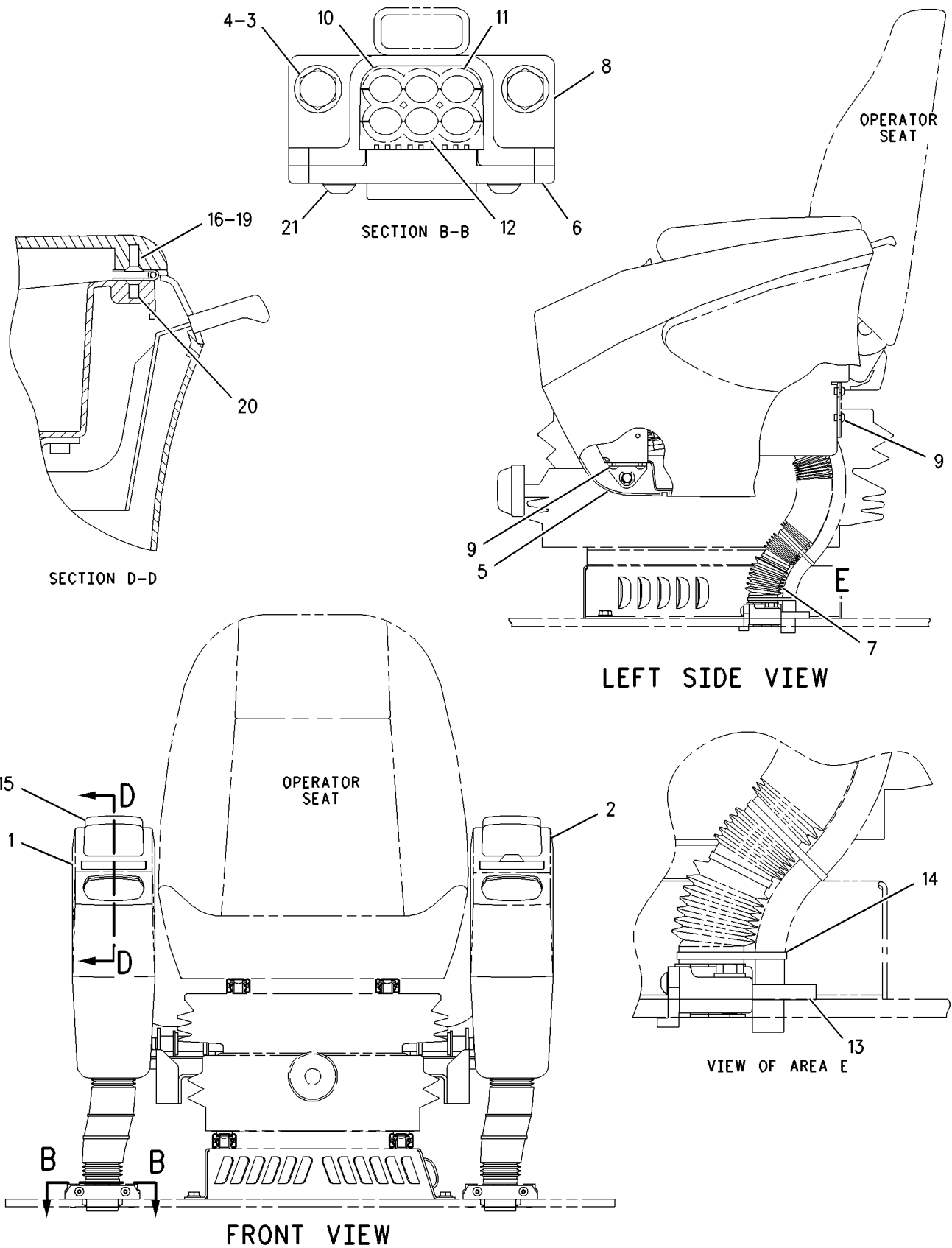
M-METRIC PART

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

161-3758 CONSOLE GP-OPERATOR (contd.)

i01525780



GRAPHIC #1

g00793422

OPERATOR STATION

161-3760 CONSOLE GP-RH

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 161-3758 CONSOLE GP-OPERATOR

SMCS-5258

i01526269

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
M	1	1	7Y-9096	2	SCREW-TRUSS HEAD	
M	2	1	128-2135	6	SCREW-TRUSS HEAD (M6)	
	3	1	178-5400	1	SUPPORT AS	
	4	1	178-5426	8	SCREW-TAPPING	
	5	1	178-5519	1	COVER	
	6	1	178-5522	1	COVER	
Y	7	1	178-5524	1	ADJUSTMENT GP-CONSOLE	620
	8	1	178-5529	1	COVER	
	9	1	178-5533	1	CASE	
	10	1	178-5548	1	COVER	
	11	1	178-5629	1	LATCH	
	12	1	178-5632	1	BRACKET	
	13	1	185-8163	3	SCREW-MACHINE	
	14	1	196-1565	1	BRACKET	
	15	1	196-1696	2	SPACER	
	16	1	119-5026	5	SCREW-PAN HEAD (10-16X0.63 IN)	
	17	1	155-7099	10	NUT	
M	18	1	9X-2042	4	SCREW-TRUSS HEAD (M6X1X12MM)	

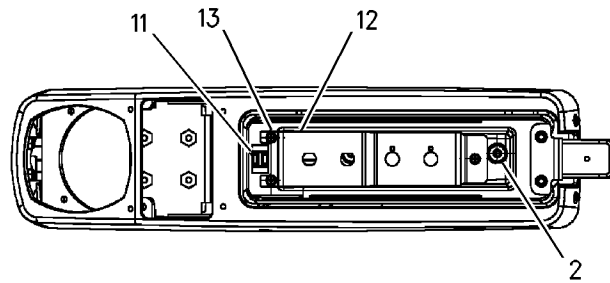
M-METRIC PART

Y-SEPARATE ILLUSTRATION

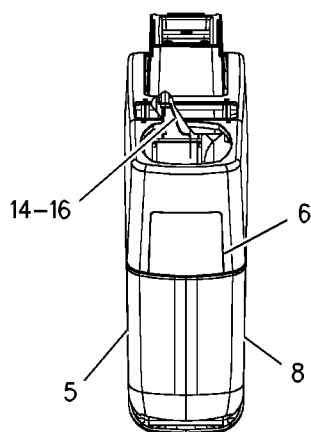
OPERATOR STATION

161-3760 CONSOLE GP - RH (contd.)

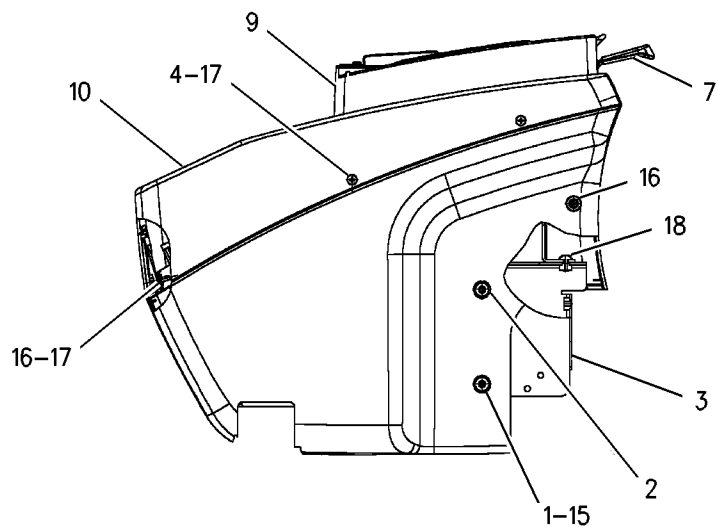
i01526269



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

GRAPHIC #1

g00779287

OPERATOR STATION

201-3204 CONTROL GP-CAB TILT

S/N: CBY1-UP

48 INCHES CAB RISER

PART OF 192-2340 RISER AR-CAB

SMCS-7341

i01549738

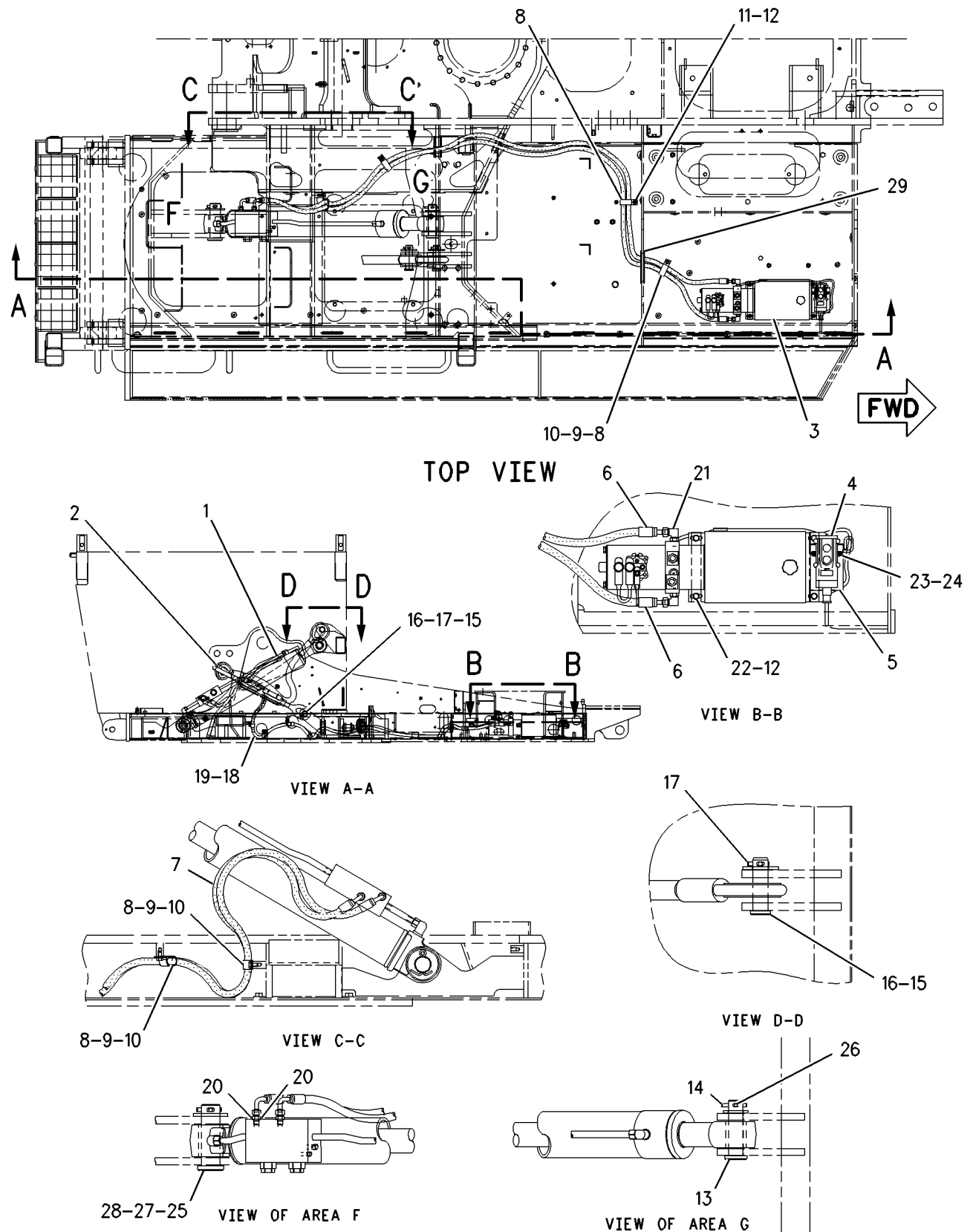
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-0173	1	CYLINDER & SEAL GP-CAB TILT						
	2	1	134-3461	1	CABLE AS						
	3	1	161-9564	1	CONTROL AS						
	4	1	161-9565	1	SWITCH AS						
	5	1	161-9566	1	SUPPORT AS						
I	6	1	8W-4477	2	HOSE AS						
E	7	1	7I-7439		GUARD (100CM)						
	8	1	6D-1641	4	CLIP						
M	9	1	8T-4137	3	BOLT (M10X1.5X20MM)						
	10	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
M	11	1	8T-4189	1	BOLT (M8X1.25X20MM)						
	12	1	8T-4224	5	WASHER-HARD (8.8X16X2MM THK)						
	13	1	161-9570	1	PIN						
	14	1	3S-6162	1	WASHER-HARD (40.5X67X6MM THK)						
	15	1	095-0863	2	COTTER						
	16	1	149-1809	2	PIN						
	17	1	4Y-5205	2	WASHER-HARD						
	18	1	115-8645	2	GUARD						
	19	1	7K-1181	4	STRAP-CABLE						
	20	1	148-8336	2	CONNECTOR GP						
					(EACH INCLUDES)						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	1	SEAL-O-RING						
		1	6V-8636	1	CONNECTOR						
	21	1	148-8378	2	ELBOW GP						
					(EACH INCLUDES)						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	1	SEAL-O-RING						
		1	6V-8724	1	ELBOW						
M	22	1	8T-4200	4	BOLT (M8X1.25X16MM)						
M	23	1	6V-9672	2	SCREW-MACHINE (M4X.7X16MM)						
	24	1	096-6166	2	WASHER-HARD (4.5X9X1MM THK)						
	25	1	186-3880	1	PIN						
	26	1	095-7943	1	COTTER						
	27	1	7Y-0725	1	WASHER-HARD (52X92X8MM THK)						
	28	1	095-0867	1	PIN-COTTER						
	29	1	142-5536	1	GROMMET						

E-ORDER BY THE CENTIMETER
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART

OPERATOR STATION

201-3204 CONTROL GP-CAB TILT (contd.)

i01549738



GRAPHIC #1

g00788009

OPERATOR STATION

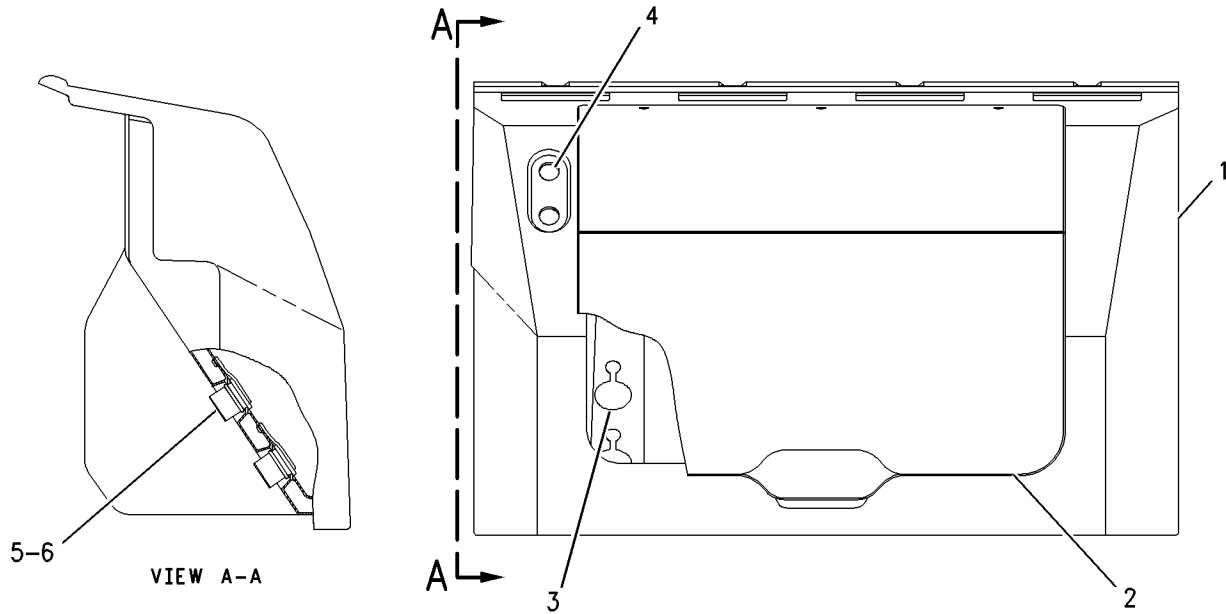
199-5818 COVER GP-STORAGE

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 192-2333 CAB & MOUNTING GP

SMCS-7300

i01510827

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-1426	1	COVER AS						
	2	1	171-7339	1	COVER						
	3	1	4I-3081	1	CAP						
	4	1	176-2002	2	CAP						
	5	1	189-3463	1	PIPE						
	6	1	095-1531	1	SEAL-O-RING						
F		1	196-1423	1	CAP						
F - NOT SHOWN											



GRAPHIC #1

g00798104

OPERATOR STATION

194-6992 DUCT GP-AIR

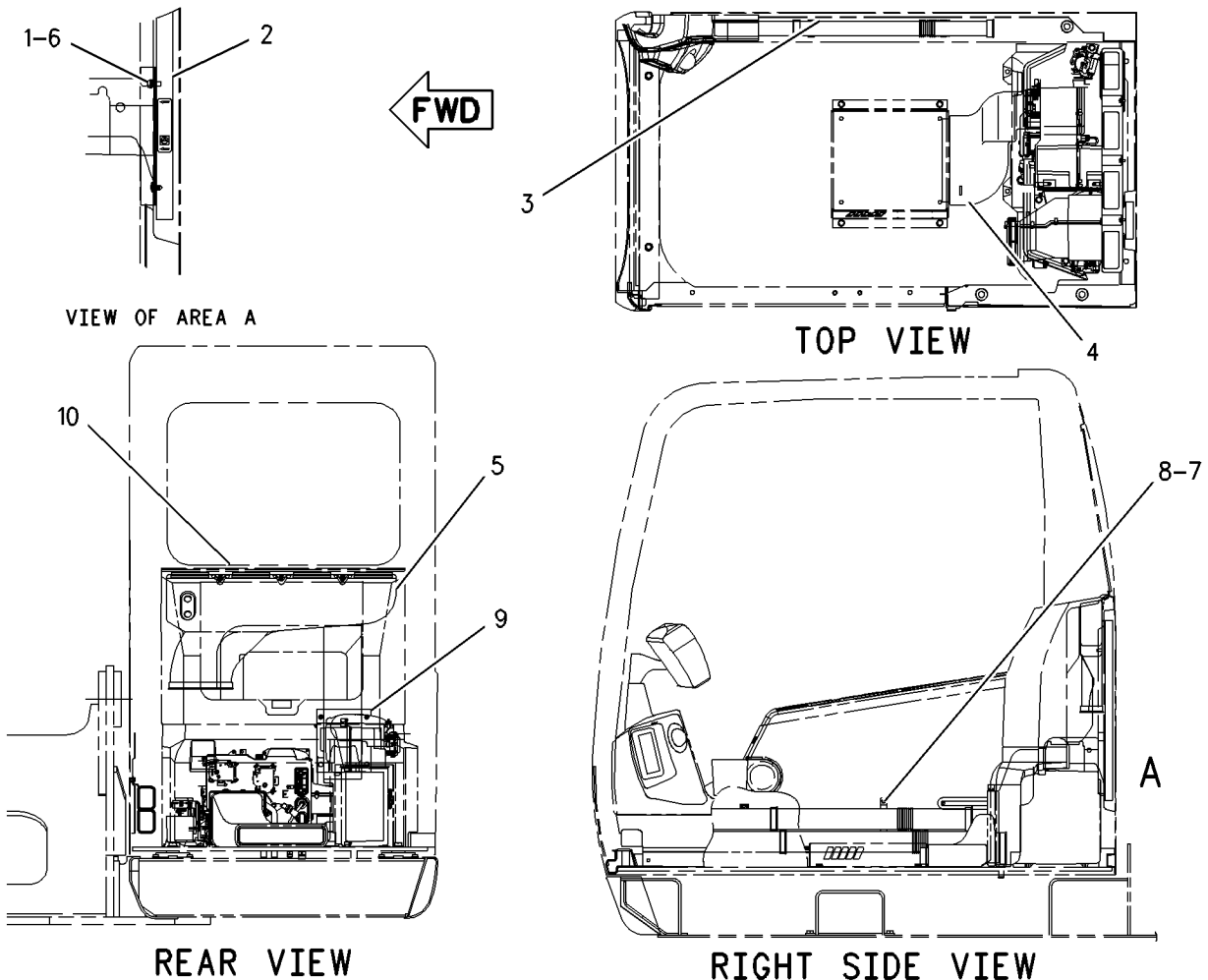
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 183-9683 AIR CONDITIONER GP

SMCS-7304, 7320, 7337

i01526260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4138	4	BOLT (M6X1X20MM)						
	2	1	4I-1278	1	FILTER						
	3	1	164-0592	1	DUCT AS						
		1	6I-5331	4	RIVET						
		1	189-3415	2	INSULATOR						
4	1	1	164-0633	1	DUCT AS						
		1	189-3427	1	CUSHION-RUBBER						
5	1	1	198-0024	1	DUCT AS-VENT						
		1	167-7118	1	INSULATION						
		1	167-7119	1	INSULATION						
		1	189-3426	4	INSULATION						
	6	1	5P-4115	4	WASHER-HARD (7.2X19X2MM THK)						
	7	1	9X-8256	1	WASHER (6.6X12X2MM THK)						
M	8	1	8T-4171	1	BOLT (M6X1X12MM)						
	9	1	179-5358	1	DUCT AS						
M	10	1	9X-2044	3	SCREW- TRUSS HEAD (M6X1X16MM)						

M-METRIC PART



GRAPHIC #1

g00793126

OPERATOR STATION

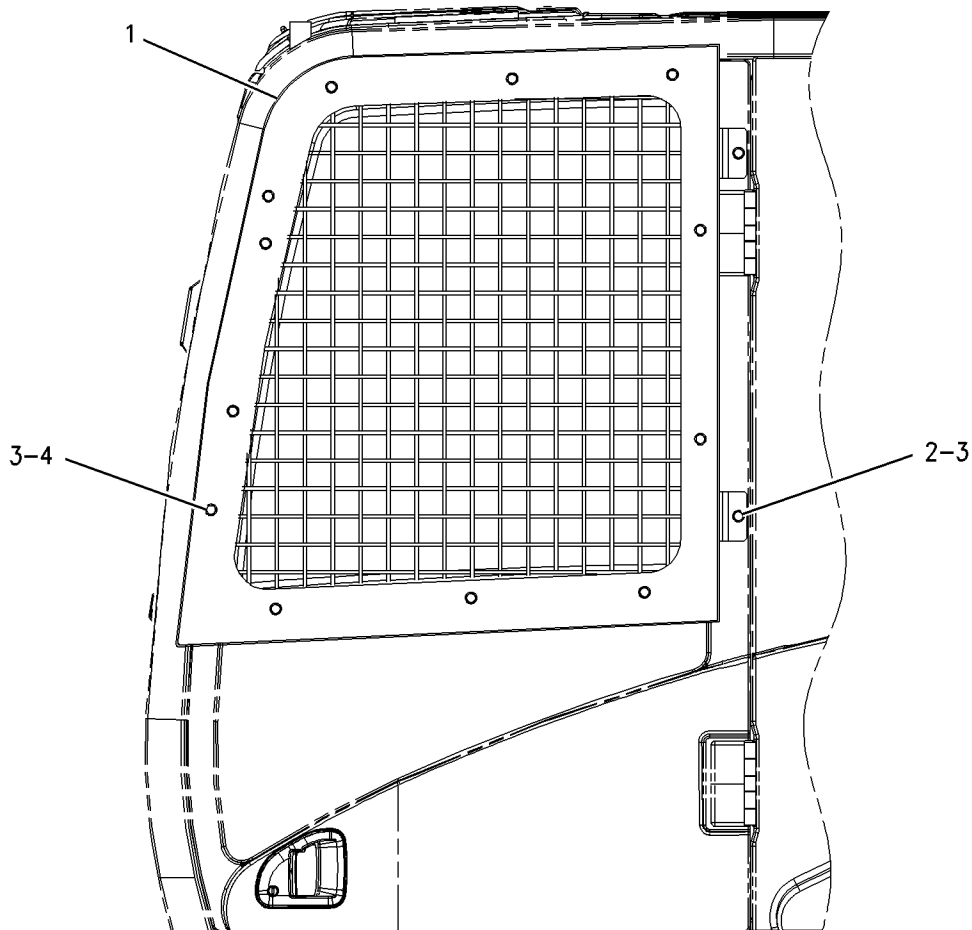
161-9400 GUARD GP-CAB DOOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP
AN ATTACHMENT

SMCS-7301

i01499165

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	186-3848	1	GUARD AS						
M	2	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	3	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
M	4	1	8T-6466	2	BOLT (M10X1.50X60MM)						
M-METRIC PART											



LEFT SIDE VIEW

GRAPHIC #1

g00796355

OPERATOR STATION

161-9403 GUARD GP-FRONT WINDOW

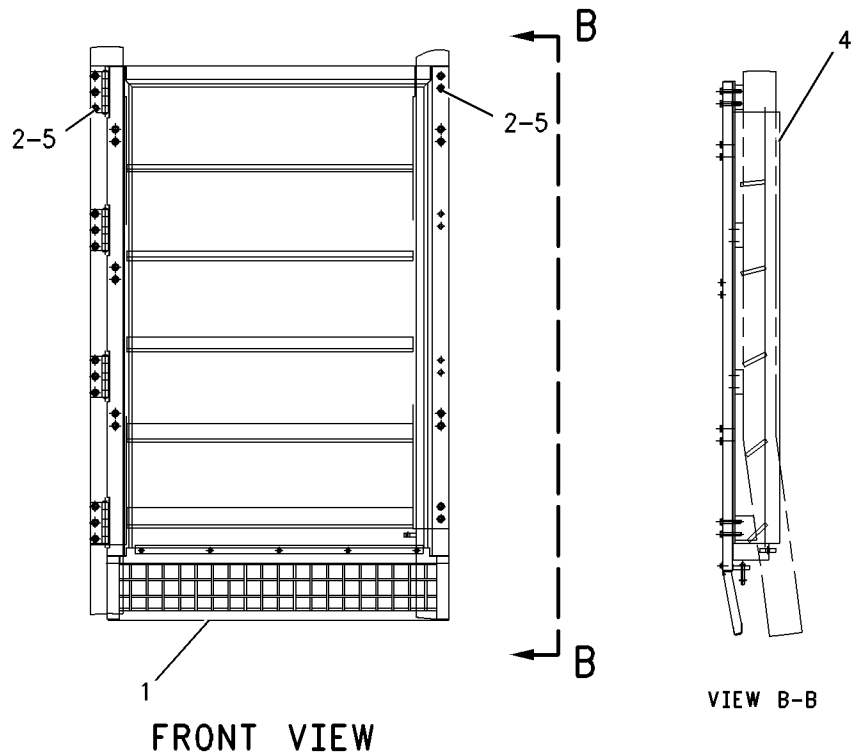
S/N: BPH1-UP; CAM1-UP; CBY1-UP
WINDSHIELD/LEXAN
AN ATTACHMENT

SMCS-7182, 7315

i01545389

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	161-9443	1	GUARD GP-FRONT WINDOW (LEXAN)						650
	2	1	8T-4121	16	WASHER-HARD (11X21X2.5MM THK)						
	4	1	161-9453	1	GUARD AS						
M	5	1	8T-6466	16	BOLT (M10X1.50X60MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00803009

OPERATOR STATION

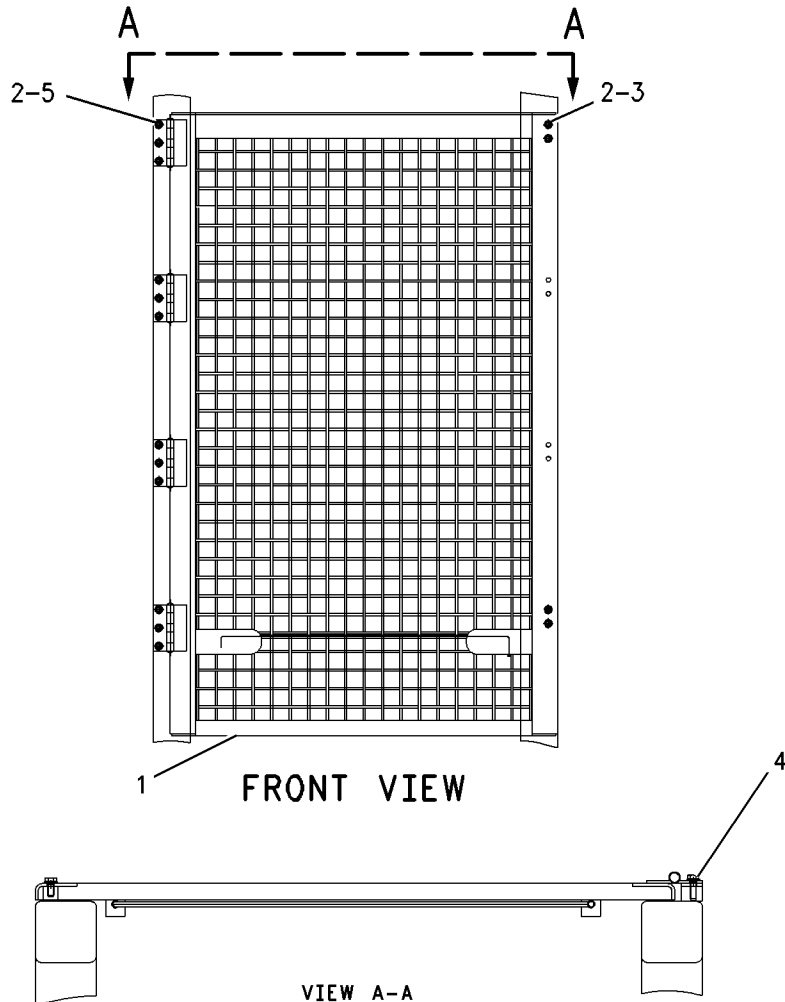
161-9404 GUARD GP-FRONT WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP
AN ATTACHMENT

SMCS-7182, 7315

i01502260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9461	1	GUARD AS						
		1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
		1	3B-4618	1	PIN-COTTER						
		1	186-3955	4	HINGE						
	2	1	8T-4121	16	WASHER-HARD (11X21X2.5MM THK)						
M	3	1	8T-4136	4	BOLT (M10X1.5X25MM)						
	4	1	186-3959	4	PLATE						
M	5	1	8T-4196	12	BOLT (M10X1.5X35MM)						
M-METRIC PART											



GRAPHIC #1

g00796164

OPERATOR STATION

161-9405 GUARD GP-FRONT WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP

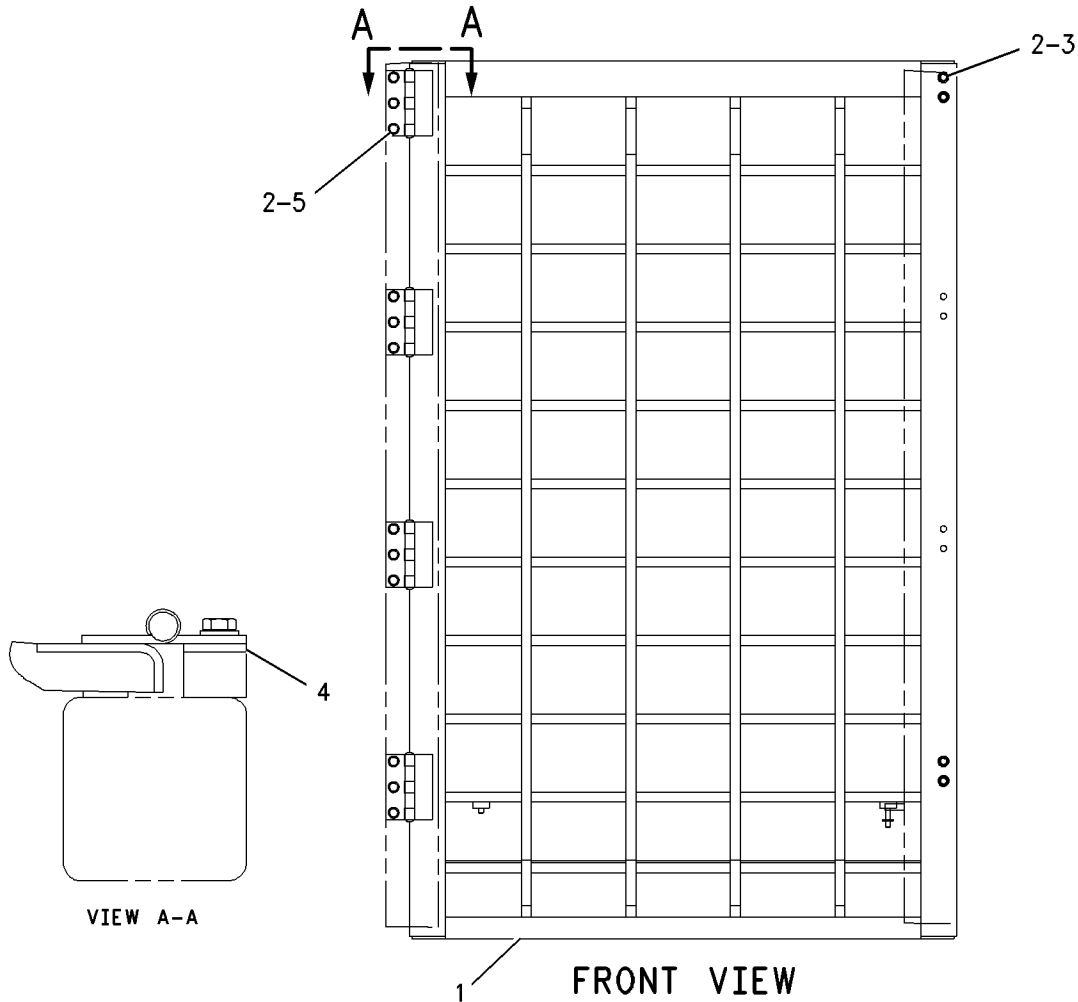
6X8 BARS. WINDSHIELD

AN ATTACHMENT

SMCS-7182, 7315

i01545392

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9471	1	GUARD AS						
		1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
		1	3B-4618	1	PIN-COTTER						
	2	1	8T-4121	16	WASHER-HARD (11X21X2.5MM THK)						
M	3	1	8T-4136	4	BOLT (M10X1.5X25MM)						
	4	1	186-3959	4	PLATE						
M	5	1	8T-4196	12	BOLT (M10X1.5X35MM)						
M-METRIC PART											



GRAPHIC #1

g00733837

OPERATOR STATION

161-9443 GUARD GP-FRONT WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP

WINDSHIELD/LEXAN

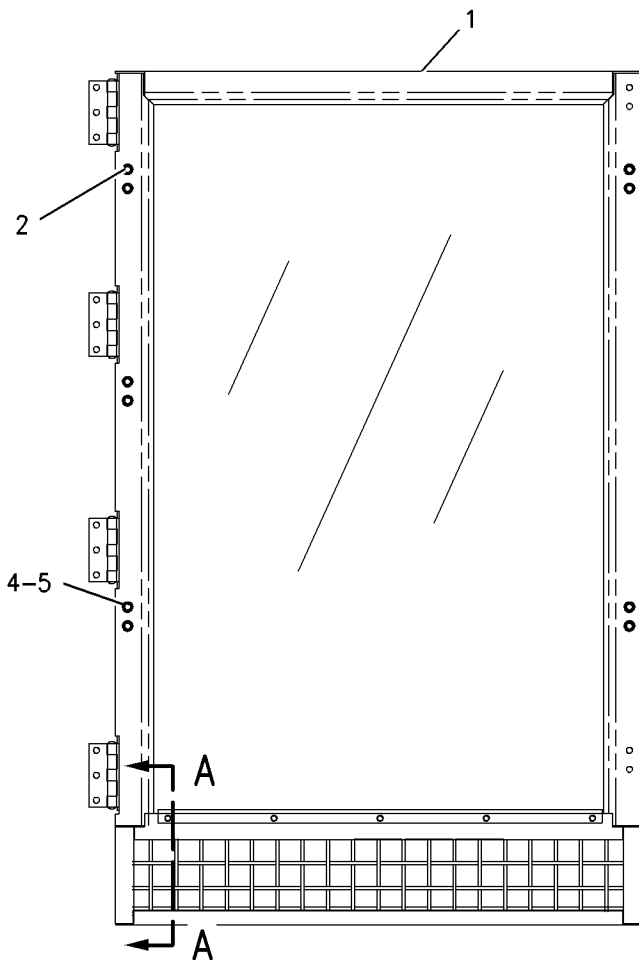
PART OF 161-9403 GUARD GP-FRONT WINDOW
AN ATTACHMENT

SMCS-7182, 7315

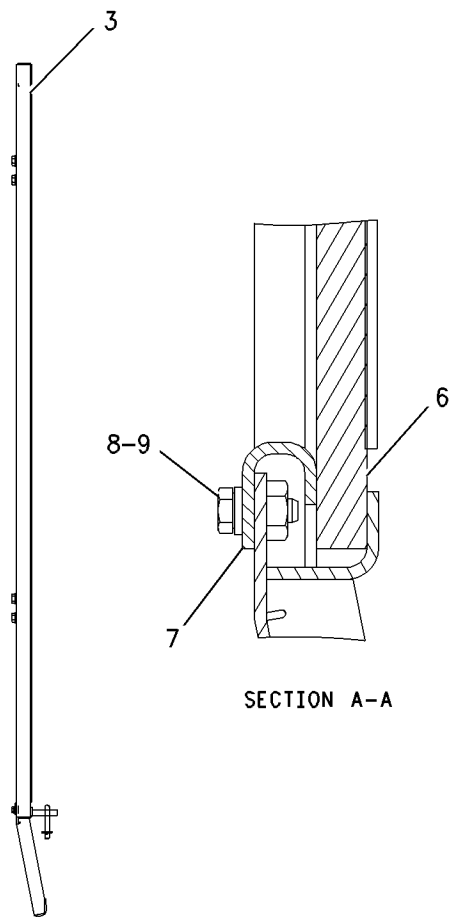
i01545404

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9458	1	GUARD AS						
		1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
		1	3B-4618	1	PIN-COTTER						
	2	1	161-9459	1	FRAME AS						
	3	1	161-9488	1	FRAME AS						
M	4	1	8T-4136	10	BOLT (M10X1.5X25MM)						
	5	1	8T-4121	10	WASHER-HARD (11X21X2.5MM THK)						
	6	1	161-9450	1	GLASS						
	7	1	161-9452	1	CHANNEL						
M	8	1	5C-9553	5	BOLT (M6X1X16MM)						
	9	1	9X-8256	5	WASHER (6.6X12X2MM THK)						

M-METRIC PART



FRONT VIEW



SECTION A-A

LEFT SIDE VIEW

GRAPHIC #1

g00733858

MEMORANDA

OPERATOR STATION

161-9399 GUARD GP-OVERHEAD

S/N: BPH1-UP; CAM1-UP; CBY1-UP

FORESTRY

PART OF 192-2339, 192-2340 RISER AR-CAB

SMCS-7159

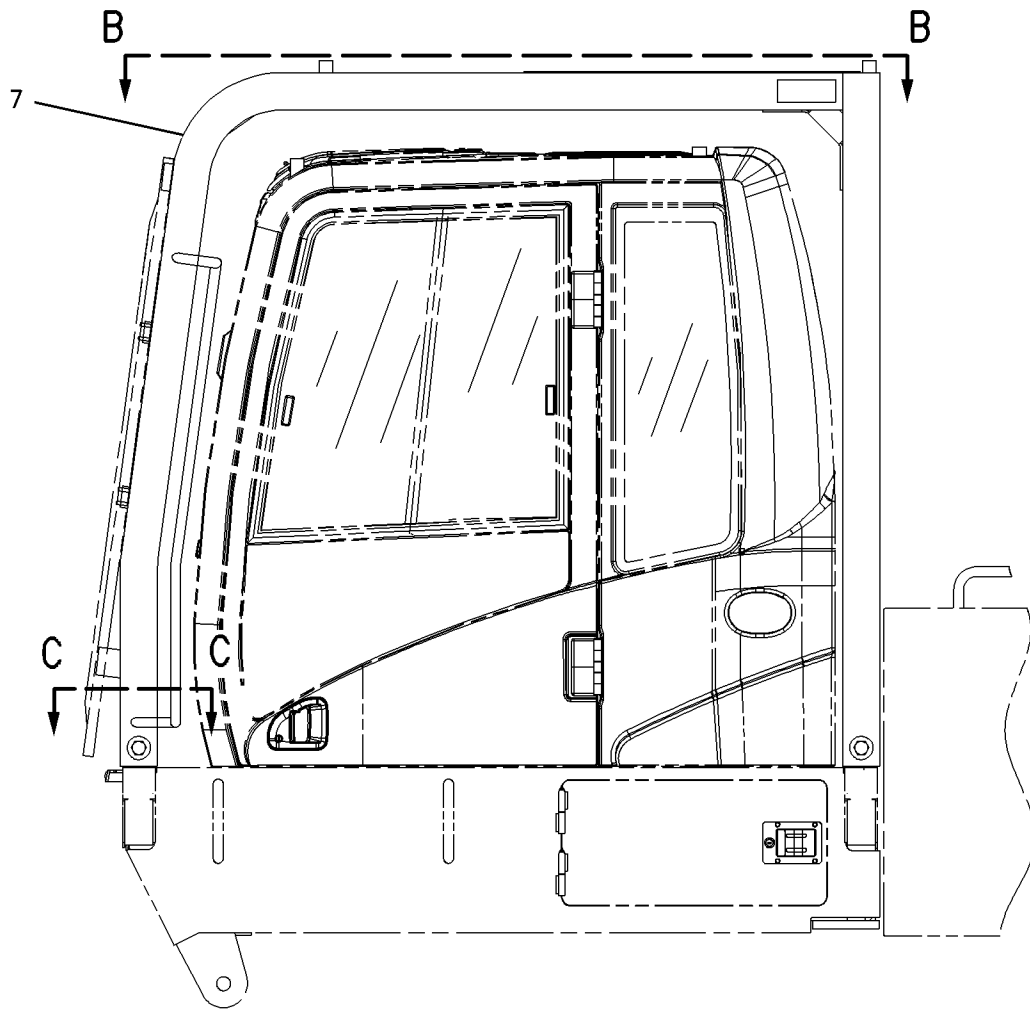
i01512920

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-3246	3	BOLT AS						
		1	1P-3700		SEAL - RECTANGULAR						
M	2	1	8T-4132	3	NUT (M16X2 THD)						
	3	1	3E-9411	3	WASHER-HARD (6MM THK)						
M	4	1	8T-4139	1	BOLT (M12X1.75X30MM)						
	5	1	8T-4223	5	WASHER-HARD (13.5X25.5X3MM THK)						
	6	1	142-1433	1	PIN AS						
		1	7T-1099		LINK						
	7	1	161-9426	1	GUARD AS						
M-METRIC PART											

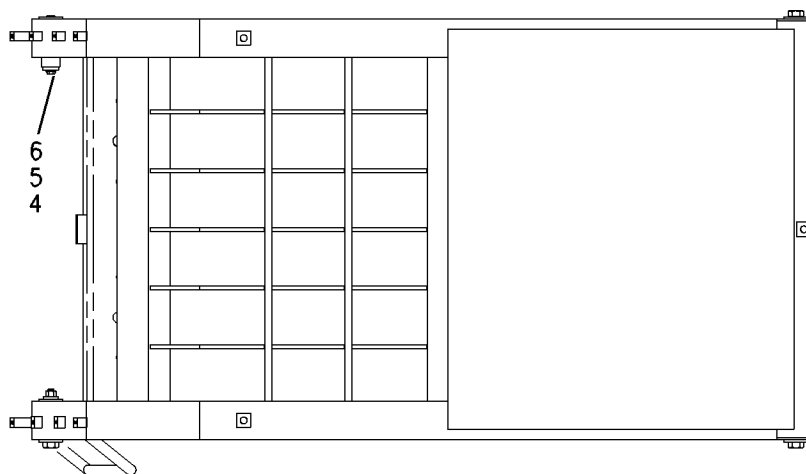
OPERATOR STATION

161-9399 GUARD GP-OVERHEAD (contd.)

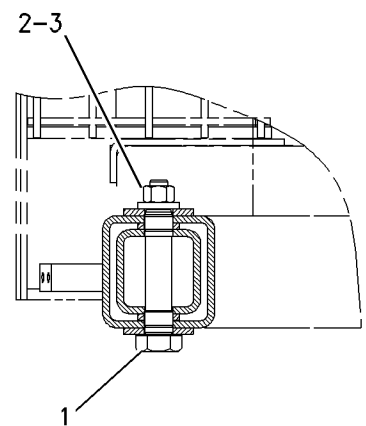
i01512920



LEFT SIDE VIEW



SECTION B-B



SECTION C-C

GRAPHIC #1

g00797367

OPERATOR STATION

161-9401 GUARD GP-WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP

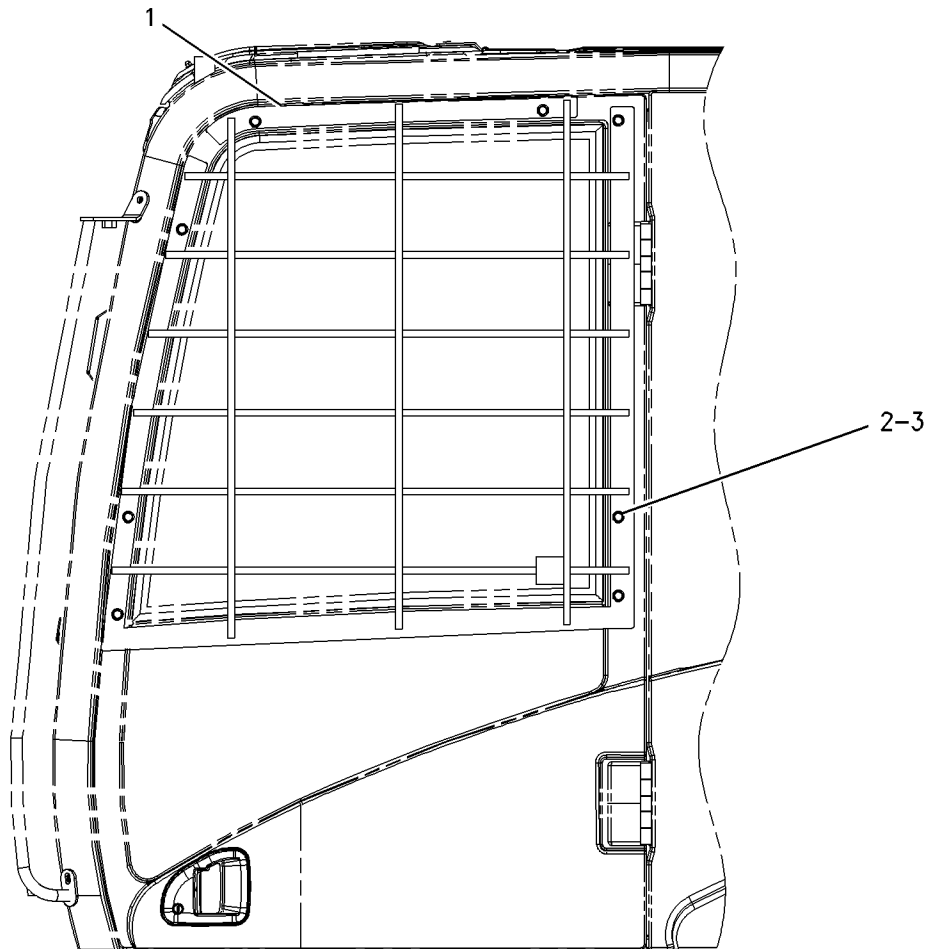
6X8 BARS. DOOR

AN ATTACHMENT

SMCS-7182, 7315

i01545384

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	186-3980	1	GUARD AS						
M	2	1	8T-4137	8	BOLT (M10X1.5X20MM)						
	3	1	8T-4121	8	WASHER-HARD (11X21X2.5MM THK)						
M-METRIC PART											



LEFT SIDE VIEW

GRAPHIC #1

g00758003

OPERATOR STATION

7Y-3813 HORN GP-ELECTRIC

S/N: BPH1-UP; CAM1-UP; CBY1-UP

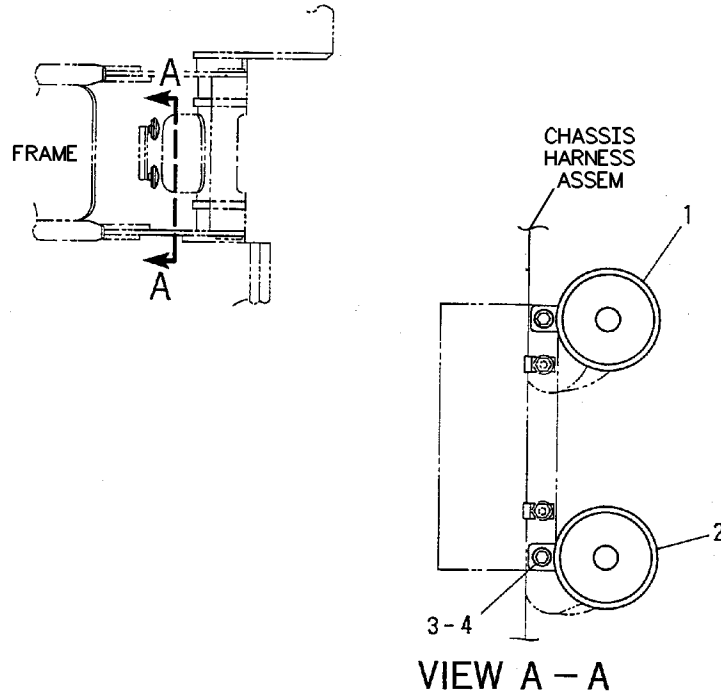
PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7402

i00984300

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7T-0970	1	HORN AS (24 VOLT)						
M		1	8C-7581	2	SCREW-MACHINE (M4X0.70X8MM)						
		1	9B-7233	2	LOCKWASHER (NO.8)						
		1	096-6166	2	WASHER-HARD (1MM THK)						
	2	1	7T-0969	1	HORN AS (24 VOLT)						
M		1	8C-7581	2	SCREW-MACHINE (M4X0.70X8MM)						
		1	9B-7233	2	LOCKWASHER (NO.8)						
		1	096-6166	2	WASHER-HARD (1MM THK)						
M	3	1	8T-4191	2	BOLT (M10X1.50X16MM)						
	4	1	8T-4121	2	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00221450

OPERATOR STATION

177-6730 HOUSING GP-AIR CONDITIONER-INLET AIR

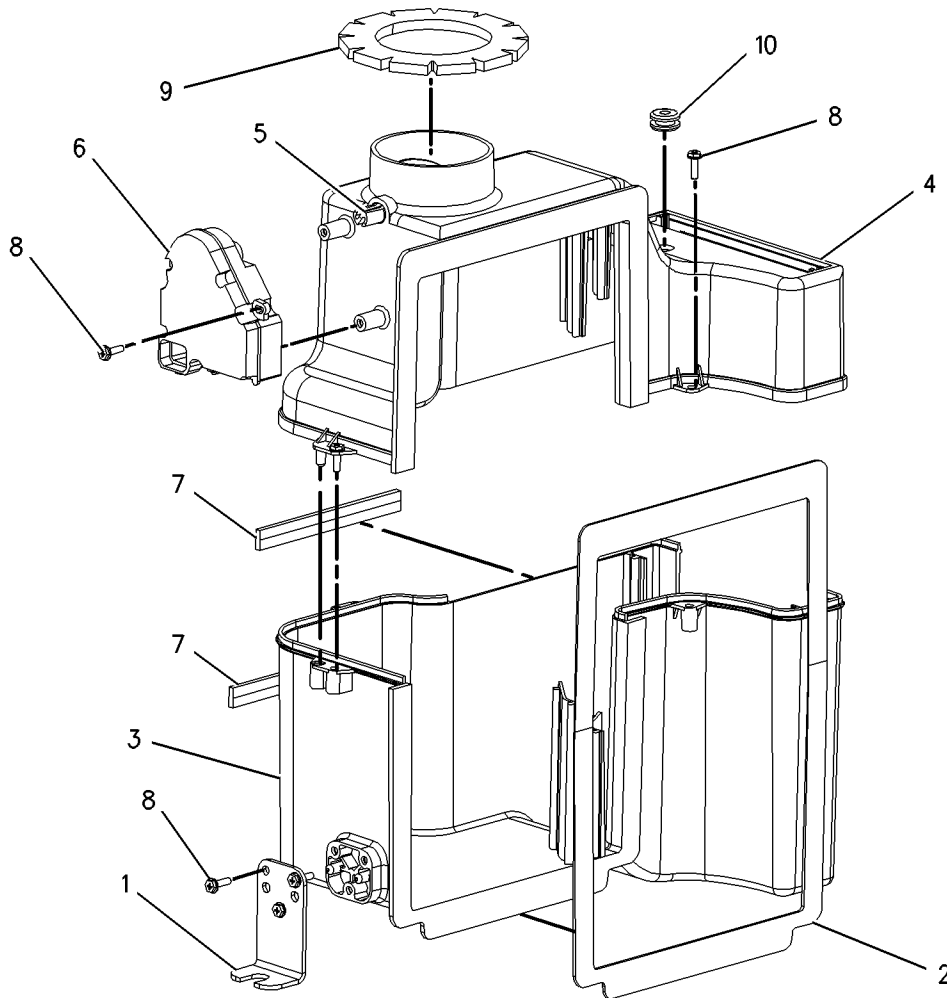
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 168-4604 AIR CONDITIONER GP

SMCS-7320

i01524220

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-6690	1	PLATE						
	2	1	177-6699	1	GASKET						
	3	1	177-6705	1	CASE						
	4	1	177-6706	1	CASE						
	5	1	177-6709	1	DOOR						
	6	1	177-6727	1	ACTUATOR						
	7	1	187-1521	2	GASKET						
M	8	1	187-7719	10	BOLT						
	9	1	195-0471	1	GASKET						
	10	1	4V-5091	1	GROMMET						

M-METRIC PART



GRAPHIC #1

g00794013

OPERATOR STATION

177-6731 HOUSING GP-AIR CONDITIONER-OUTLET AIR

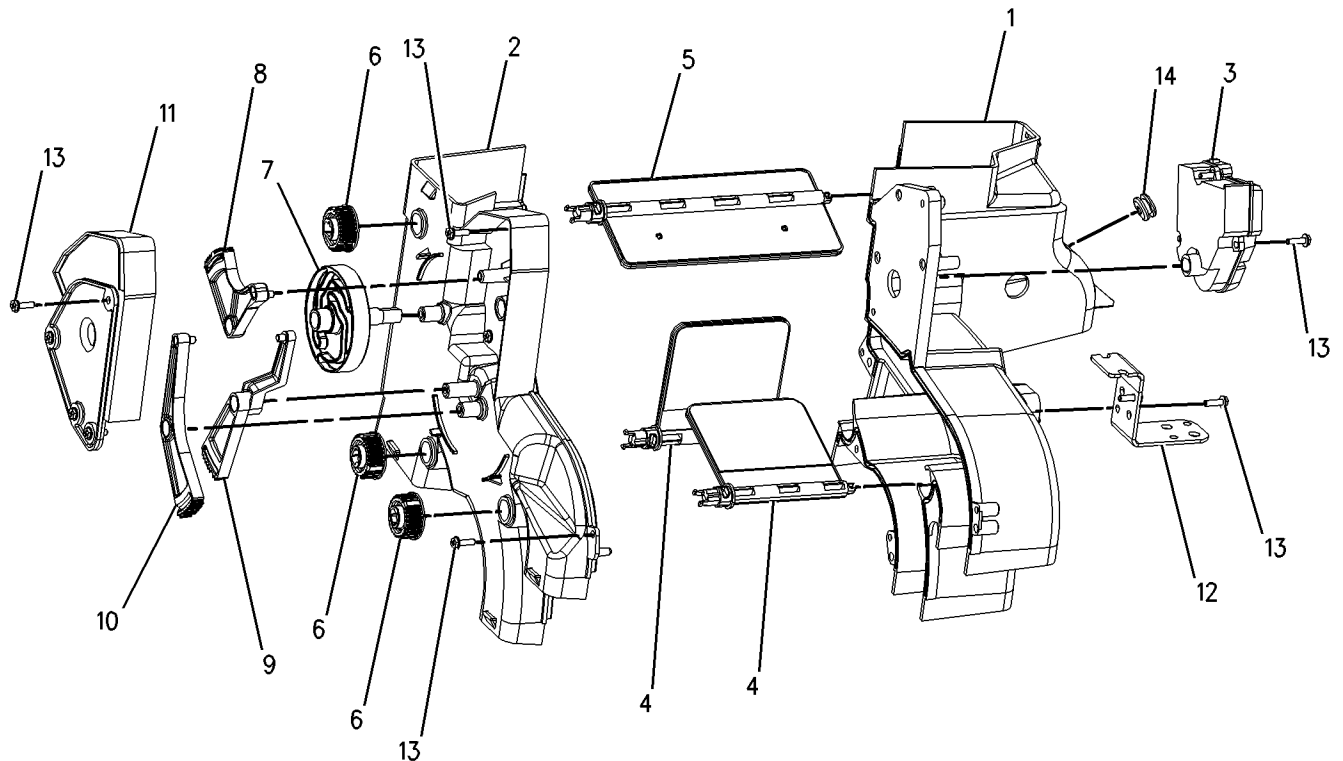
S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 168-4604 AIR CONDITIONER GP

SMCS-7320

i01524237

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-6712	1	COVER						
	2	1	177-6713	1	HOUSING						
	3	1	177-6727	1	ACTUATOR						
	4	1	177-6734	2	DOOR AS						
	5	1	177-6735	1	DOOR AS						
	6	1	179-4676	3	GEAR						
	7	1	179-4677	1	CAM						
	8	1	179-4678	1	LEVER						
	9	1	179-4679	1	LEVER						
	10	1	179-4680	1	LEVER						
	11	1	179-4681	1	CAGE						
	12	1	179-4717	1	PLATE						
M	13	1	187-7719	16	BOLT						
	14	1	4V-5091	1	GROMMET						

M-METRIC PART



GRAPHIC #1

g00793936

OPERATOR STATION

192-2342 LINES GP-AIR CONDITIONER

S/N: BPH1-UP; CAM1-UP

18 INCHES. CAB RISER

PART OF 192-2339 RISER AR-CAB

SMCS-1808

i01528420

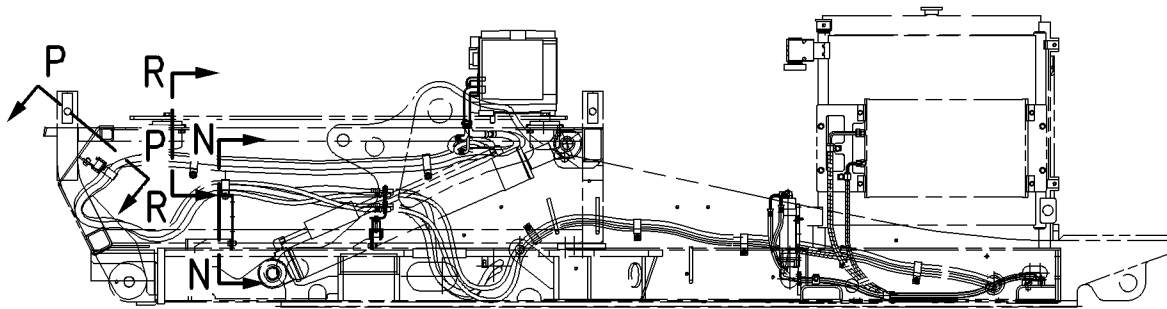
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	205-1245	1	HOSE AS						
	2	1	205-1246	1	HOSE AS						
E	3	1	5P-0767	2	HOSE (360CM EA)						
	4	1	6P-8855	4	SPACER (3.0IN THK)						
	5	1	9X-8256	1	WASHER (6.6X12X2MM THK)						
M	6	1	6V-7357	1	BOLT (M6X1.0X25MM)						
	7	1	5D-1026	10	CLAMP-HOSE						
	9	1	139-7235	2	HOSE						
	10	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
	11	1	5P-4325	4	CLIP						
M	12	1	8T-4136	3	BOLT (M10X1.5X25MM)						
	13	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						

E-ORDER BY THE CENTIMETER
M-METRIC PART

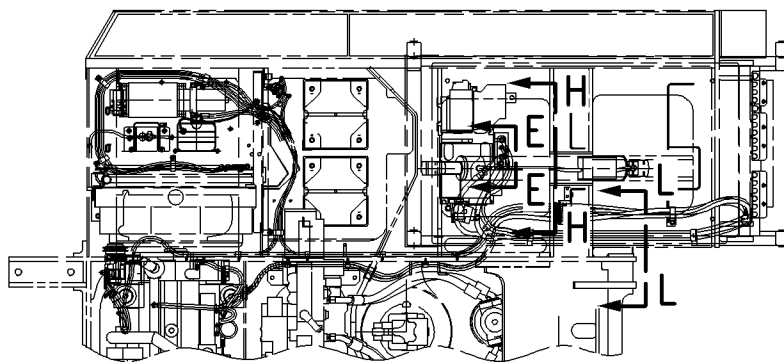
OPERATOR STATION

192-2342 LINES GP-AIR CONDITIONER (contd.)

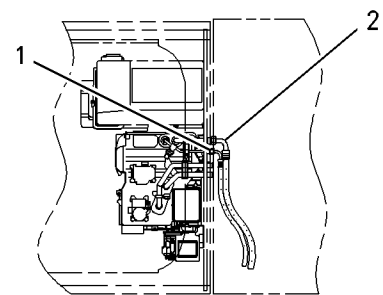
i01528420



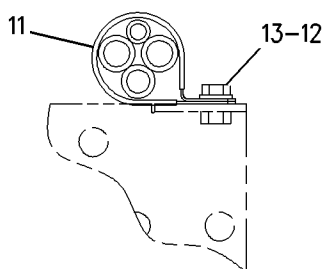
LEFT SIDE VIEW



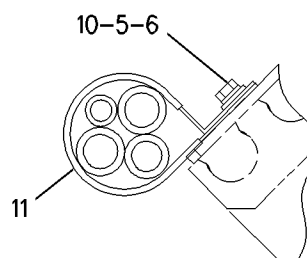
TOP VIEW



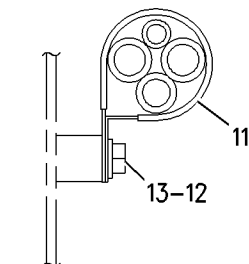
VIEW H-H



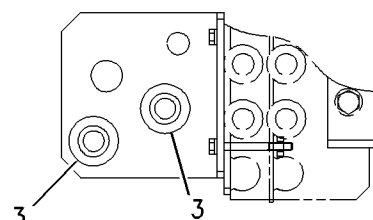
SECTION N-N



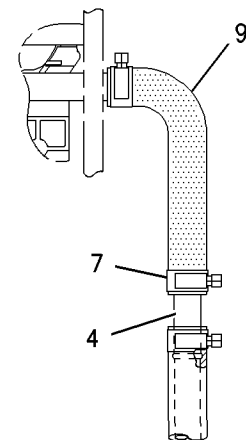
SECTION P-P



SECTION R-R



SECTION L-L



VIEW E-E

GRAPHIC #1

g00794628

OPERATOR STATION

192-2343 LINES GP-AIR CONDITIONER

S/N: CBY1-UP

48 INCHES CAB RISER

PART OF 192-2340 RISER AR-CAB

SMCS-1808

i01521165

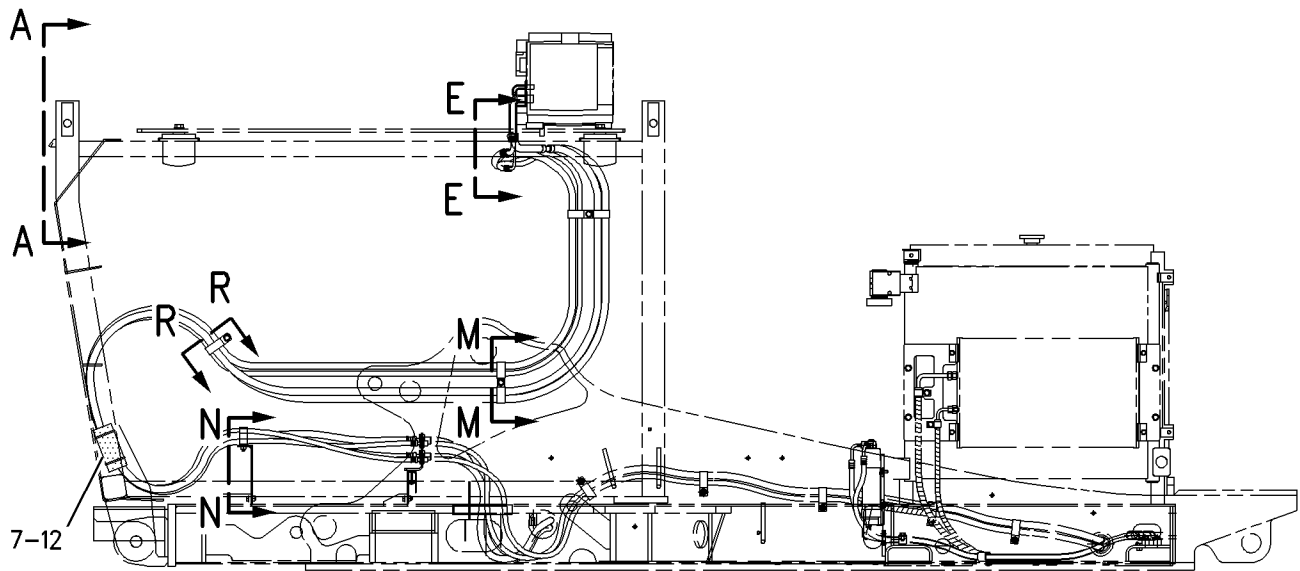
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	205-4862	1	HOSE AS						
	2	1	205-4861	1	HOSE AS						
E	3	1	5P-0767		HOSE (880CM)						
	4	1	5D-1026	10	CLAMP-HOSE						
	5	1	6P-8855	4	SPACER (3.0IN THK)						
	6	1	139-7235	2	HOSE						
	7	1	115-8645	1	GUARD						
	8	1	5P-4325	2	CLIP						
M	9	1	8T-4136	4	BOLT (M10X1.5X25MM)						
	10	1	8T-4121	4	WASHER-HARD (11X21X2.5MM THK)						
	11	1	6D-1641	4	CLIP						
	12	1	7K-1181	2	STRAP-CABLE						

E-ORDER BY THE CENTIMETER
M-METRIC PART

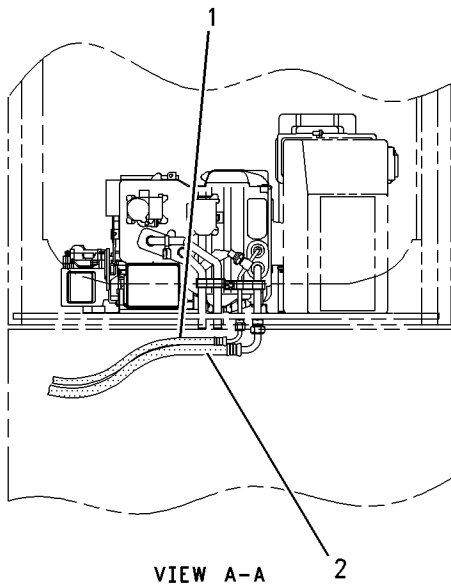
OPERATOR STATION

192-2343 LINES GP-AIR CONDITIONER (contd.)

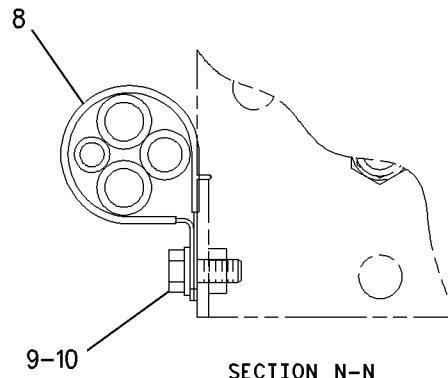
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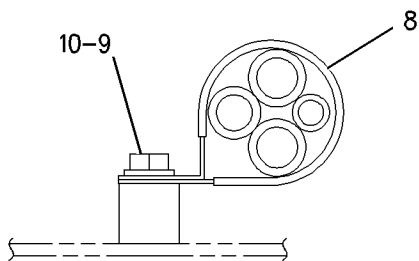
LEFT SIDE VIEW



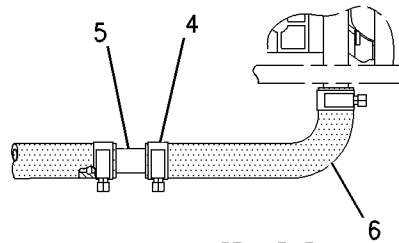
VIEW A-A



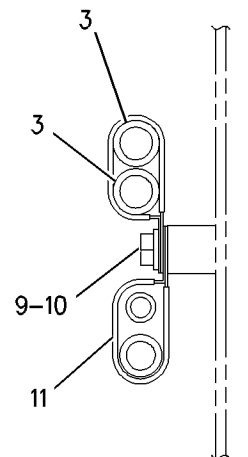
SECTION N-N



SECTION R-R



VIEW E-E



SECTION M-M

GRAPHIC #1

g00794274

OPERATOR STATION

204-7002 LINES GP-AIR CONDITIONER

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-1808

i01521100

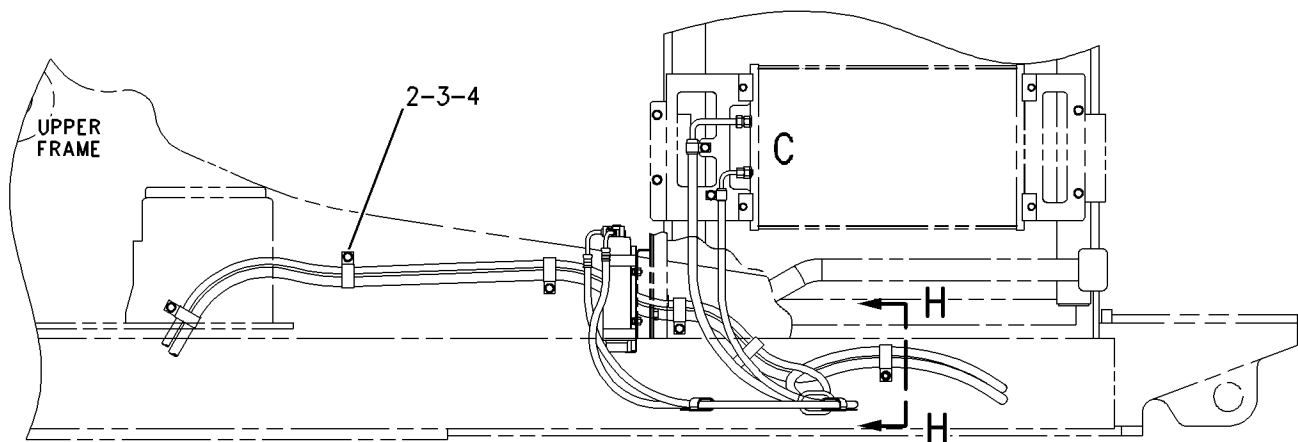
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
E	1	2	5P-0767		HOSE (255CM)	
E	1A	2	5P-0767		HOSE (265CM)	
	2	1,2	6D-1641	13	CLIP	
M	3	1,2	8T-4137	12	BOLT (M10X1.5X20MM)	
	4	1,2	8T-4121	12	WASHER-HARD (11X21X2.5MM THK)	
E	5	1	102-1174		GUARD (20CM)	
	6	1	5D-1026	2	CLAMP-HOSE	
	7	2	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)	
M	8	2	8T-4200	2	BOLT (M8X1.25X16MM)	
	9	2	205-4863	1	HOSE AS	
M	10	2	6V-7357	2	BOLT (M6X1.0X25MM)	
	11	1,2	9X-8256	4	WASHER (6.6X12X2MM THK)	
	12	2	176-1902	1	RECEIVER AS	
	13	2	121-7098	1	BRACKET AS	
M		2	8T-4138	2	BOLT (M6X1X20MM)	
		2	9X-8256	2	WASHER (6.6X12X2MM THK)	
	14	2	204-7004	1	HOSE AS	
	15	1	204-7609	1	SUPPORT	
	16	2	6D-4246	1	CLIP	
	17	2	6D-4244	1	CLIP (22.22MM ID)	
	18	1	5I-3878	1	GROMMET	
	19	1	6V-7238	2	VALVE-SHUTOFF	
	20	1	3K-0360	4	SEAL-O-RING	
	21	1	8T-1715	2	ADAPTER-STRAIGHT THREAD	
M	22	1	8T-4971	2	BOLT (M6X1X30MM)	
	23	1	170-9511	1	HOSE AS	
	24	1	204-7005	1	HOSE AS	
	25	1	171-7476	1	GROMMET	
	26	1	6P-4467	2	GROMMET	

E-ORDER BY THE CENTIMETER
M-METRIC PART

OPERATOR STATION

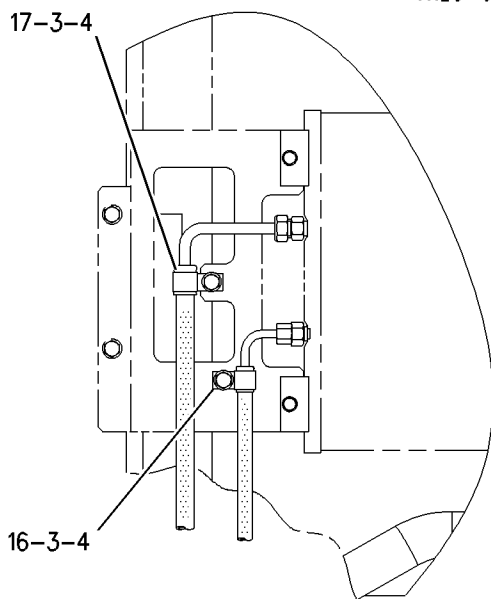
204-7002 LINES GP-AIR CONDITIONER (contd.)

i01521100

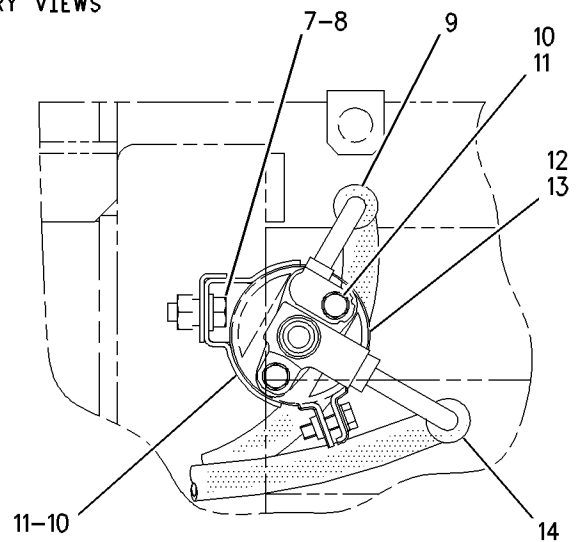


LEFT SIDE VIEW

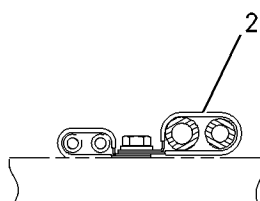
REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



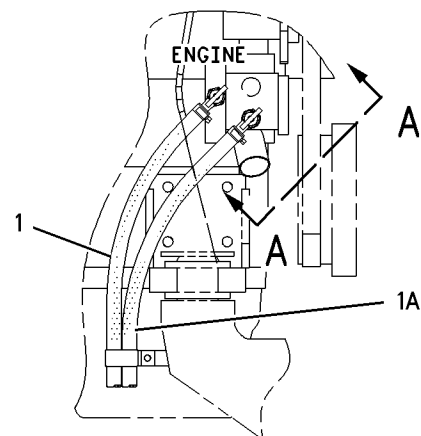
VIEW OF AREA C



VIEW OF AREA D



VIEW H-H



VIEW F-F

GRAPHIC #2

g00796110

OPERATOR STATION

7Y-0059 LITERATURE GP—OWNER & OPERATOR

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7300

i00581447

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	099-3645	1	CABLE - LANYARD						
	5P-8500	2	KEY						
	5P-7958	2	SLEEVE - CABLE SPLICE						

OPERATOR STATION

192-2332 OPERATOR AR

S/N: BPH1-UP; CAM1-UP

PART OF 192-2316, 192-2317 CHASSIS AR

SMCS-7301

i01507588

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	183-9683	1	AIR CONDITIONER GP						623
Y	192-2333	1	CAB & MOUNTING GP						630
Y	161-3758	1	CONSOLE GP-OPERATOR						638
Y	170-9497	1	CONTROL GP-TRAVEL						288
Y	161-3752	1	LEVER GP-HYD CONTROLS LOCKOUT						354
Y	161-9553	1	PLATFORM GP-OPERATOR						668
Y	188-0886	1	SEAT GP-SUSPENSION						677
Y	161-3757	1	SUPPORT GP-SEAT						678
Y	193-3555	1	WIRING GP-CONSOLE						192

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

203-9143 OPERATOR AR

S/N: CBY1-UP

LOG LOADER

PART OF 192-2318 CHASSIS AR

SMCS-7301

i01517317

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	183-9683	1	AIR CONDITIONER GP						623
Y	192-2333	1	CAB & MOUNTING GP						630
Y	161-3758	1	CONSOLE GP-OPERATOR						638
Y	196-3295	1	CONTROL GP-PILOT OPERATED HYD						286
Y	161-3752	1	LEVER GP-HYD CONTROLS LOCKOUT						354
Y	196-3296	1	PLATFORM GP-OPERATOR						670
Y	188-0886	1	SEAT GP-SUSPENSION						677
Y	161-3757	1	SUPPORT GP-SEAT						678
Y	193-3555	1	WIRING GP-CONSOLE						192

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

161-9553 PLATFORM GP-OPERATOR

S/N: BPH1-UP; CAM1-UP

PART OF 192-2332 OPERATOR AR

SMCS-7253

i01513719

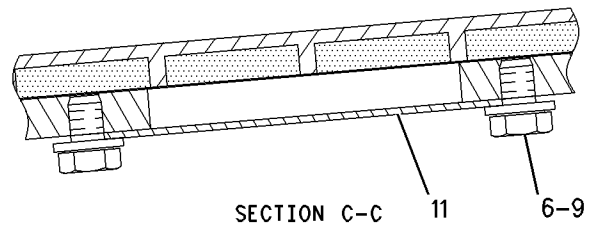
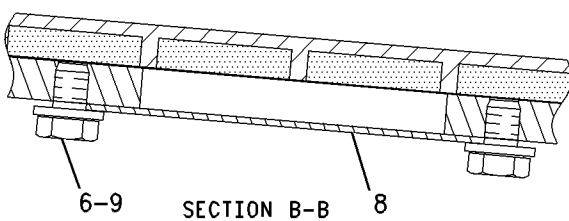
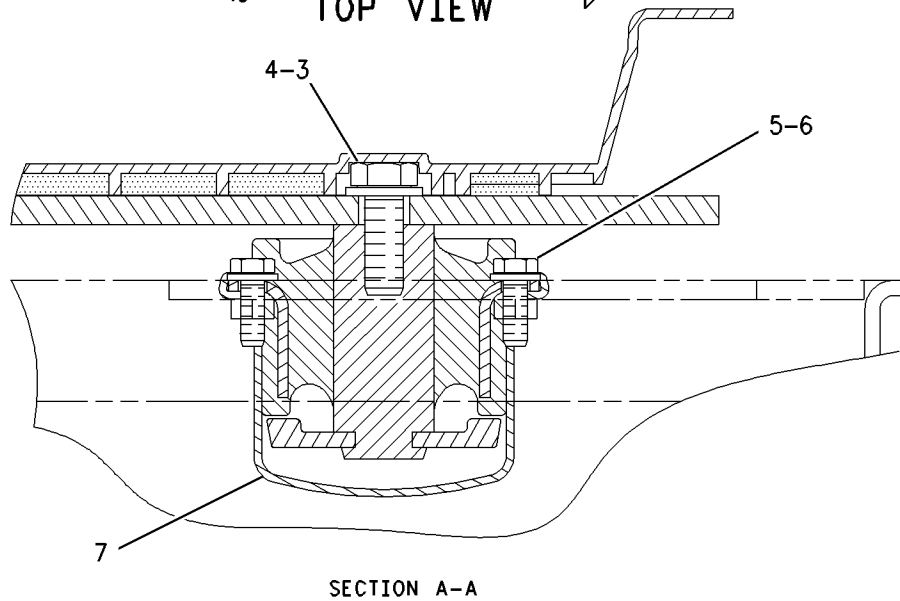
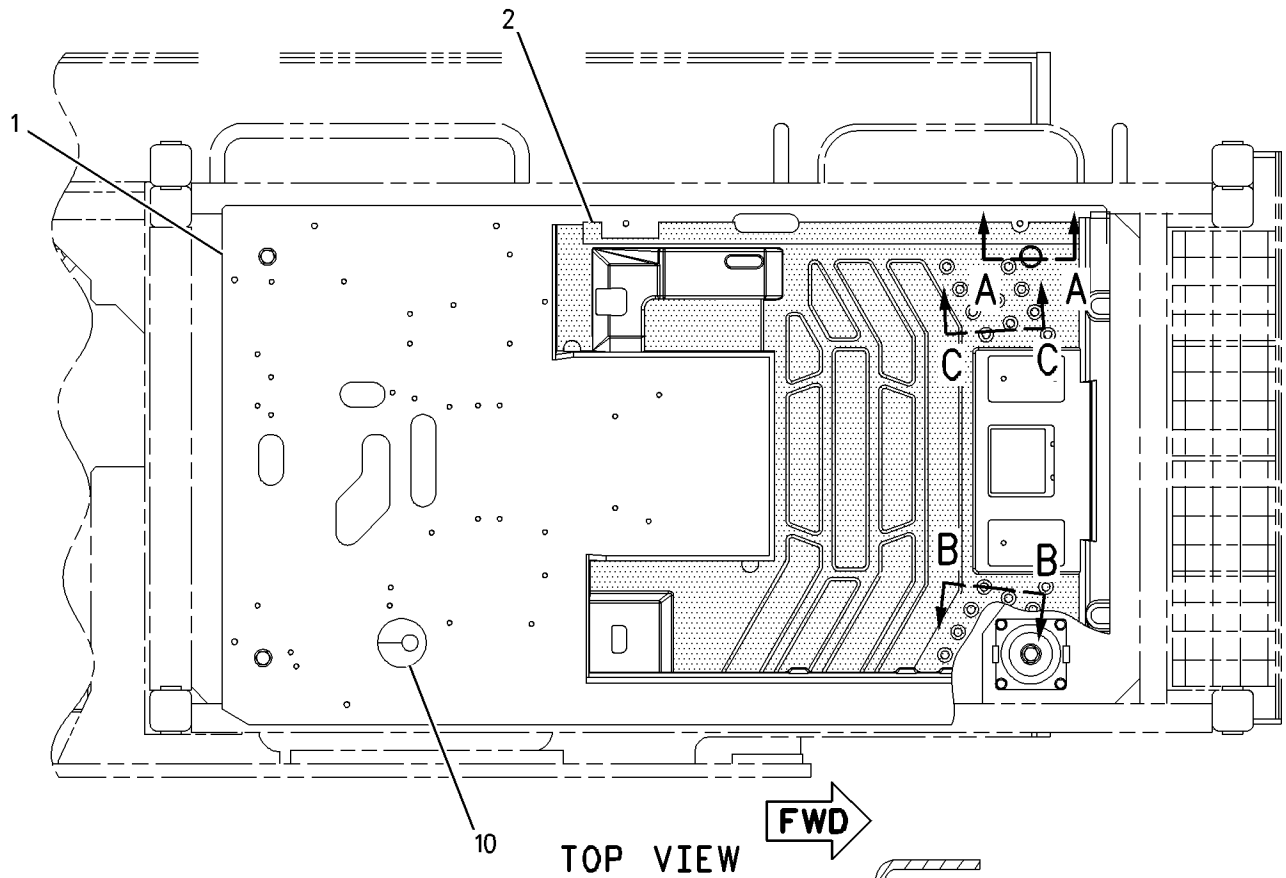
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9554	1	PLATFORM AS						
		1	9R-2821	4	BOSS						
		1	9R-5271	2	BOSS (M10X1.5X25MM)						
	2	1	186-3981	1	FLOOR MAT						
M	3	1	7X-2553	4	BOLT (M16X2X40MM)						
	4	1	9X-8257	4	WASHER (17.5X30X3.5MM THK)						
M	5	1	8T-4195	16	BOLT (M10X1.5X30MM)						
	6	1	8T-4121	20	WASHER-HARD (11X21X2.5MM THK)						
	7	1	164-0574	4	MOUNT AS						
	8	1	4I-3266	1	STRIP						
M	9	1	8T-4191	4	BOLT (M10X1.5X16MM)						
	10	1	164-0616	1	GROMMET						
	11	1	161-3717	1	STRIP						

M-METRIC PART

OPERATOR STATION

161-9553 PLATFORM GP-OPERATOR (contd.)

i01513719



GRAPHIC #1

g00785716

OPERATOR STATION

196-3296 PLATFORM GP-OPERATOR

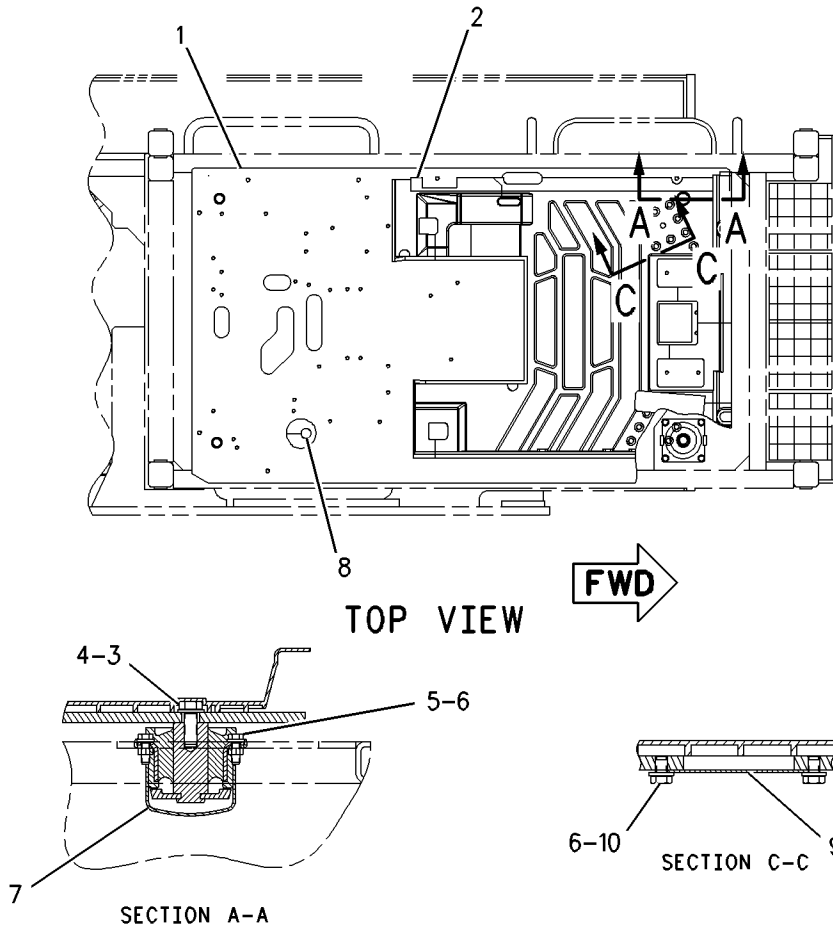
S/N: CBY1-UP

PART OF 203-9143 OPERATOR AR

SMCS-7253

i01518168

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9554	1	PLATFORM AS						
		1	9R-2821	4	BOSS						
		1	9R-5271	4	BOSS (M10X1.5X25MM)						
	2	1	196-3297	1	FLOOR MAT						
M	3	1	7X-2553	4	BOLT (M16X2X40MM)						
	4	1	9X-8257	4	WASHER (17.5X30X3.5MM THK)						
M	5	1	8T-4195	16	BOLT (M10X1.5X30MM)						
	6	1	8T-4121	18	WASHER-HARD (11X21X2.5MM THK)						
	7	1	164-0574	4	MOUNT AS						
	8	1	164-0616	1	GROMMET						
	9	1	161-3717	1	STRIP						
M	10	1	8T-4191	2	BOLT (M10X1.5X16MM)						
M-METRIC PART											



GRAPHIC #1

g00793336

OPERATOR STATION

192-2339 RISER AR-CAB

S/N: BPH1-UP; CAM1-UP

18 INCH TILTING RISER

PART OF 192-2316, 192-2317 CHASSIS AR

SMCS-7301

i01514582

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-9399	1	GUARD GP-OVERHEAD						652
Y	183-1067	1	LIGHTING GP-FLOOD						148
Y	192-2342	1	LINES GP-AIR CONDITIONER						658
Y	184-9270	1	LINES GP-PILOT						402
Y	161-9416	1	MOUNTING GP-CAB						236
Y	161-9412	1	RISER GP-CAB						673
Y	192-2341	1	TILT AR-CAB						680
Y	192-2344	1	WASHER GP-WINDOW						684
Y	205-8750	1	WIRING GP-CAB RISER						184

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

192-2340 RISER AR-CAB

S/N: CBY1-UP

48 INCH TILTING RISER

PART OF 192-2318 CHASSIS AR

SMCS-7301

i01523226

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	201-3204	1	CONTROL GP-CAB TILT						642
Y	161-9399	1	GUARD GP-OVERHEAD						652
Y	183-1067	1	LIGHTING GP-FLOOD						148
Y	192-2343	1	LINES GP-AIR CONDITIONER						660
Y	202-3587	1	LINES GP-PILOT						438
Y	161-9416	1	MOUNTING GP-CAB						236
Y	161-9419	1	RISER GP-CAB						674
Y	192-2345	1	WASHER GP-WINDOW						686
Y	205-8751	1	WIRING GP-CAB RISER						186

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

161-9412 RISER GP-CAB

S/N: BPH1-UP; CAM1-UP

18 INCHES. FORESTRY

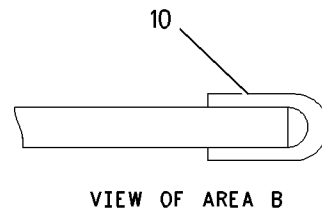
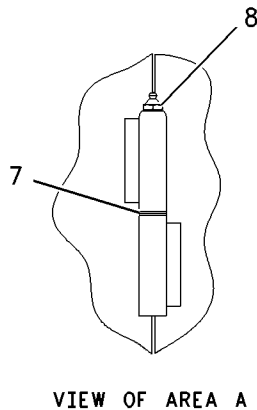
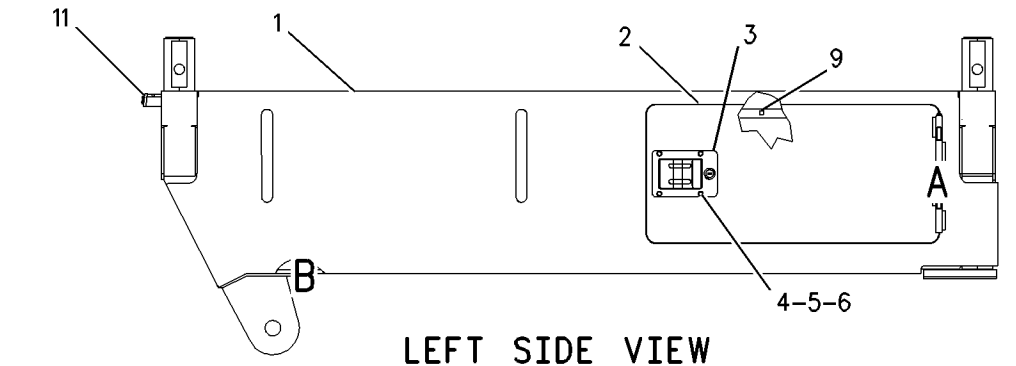
PART OF 192-2339 RISER AR-CAB

SMCS-7260

i01513292

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9571	1	RISER AS						
		1	9T-6001	1	BOSS						
	2	1	186-3979	1	DOOR AS						
	3	1	9X-2299	1	LATCH-HANDLE						
M	4	1	5C-9553	4	BOLT (M6X1X16MM)						
M	5	1	5C-2890	4	NUT (M6X1 THD)						
	6	1	9X-8256	4	WASHER (6.6X12X2MM THK)						
	7	1	2A-5222	4	GASKET						
	8	1	3B-8489	2	FITTING-GREASE						
D	9	1	5P-5969		SEAL (.1M)						
	10	1	161-9592	1	GUARD						
	11	1	146-1228	4	GROMMET						

D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00733232

OPERATOR STATION

161-9419 RISER GP-CAB

S/N: CBY1-UP

48 INCHES

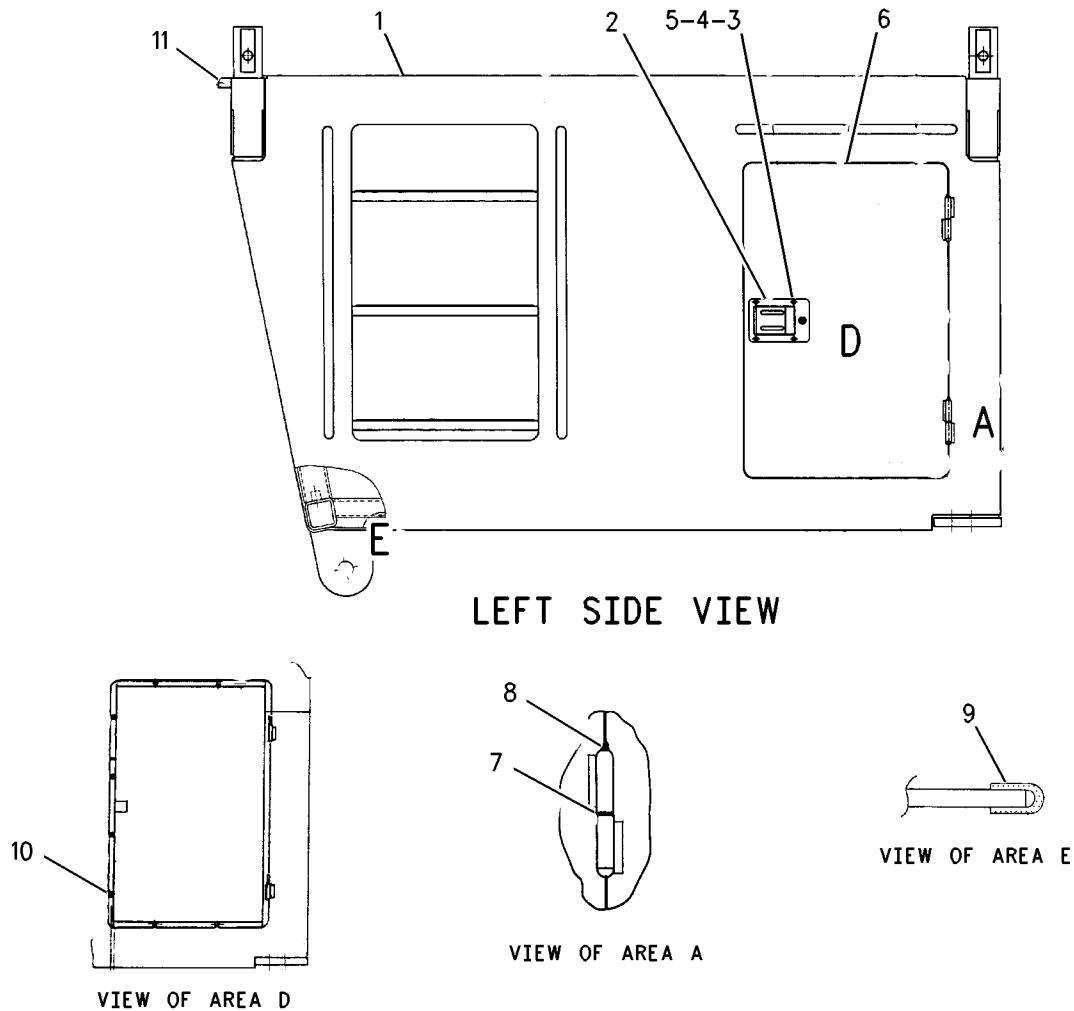
PART OF 192-2340 RISER AR-CAB

SMCS-7260

i01518093

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-9503	1	RISER AS						
	2	1	9X-2299	1	LATCH-HANDLE						
M	3	1	5C-9553	4	BOLT (M6X1X16MM)						
M	4	1	5C-2890	4	NUT (M6X1 THD)						
	5	1	9X-8256	4	WASHER (6.6X12X2MM THK)						
	6	1	142-6526	1	DOOR AS						
	7	1	2A-5222	4	GASKET						
	8	1	3B-8489	2	FITTING-GREASE						
	9	1	161-9592	1	GUARD						
D	10	1	5P-5969		SEAL (.1M)						
	11	1	146-1228	4	GROMMET						

D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00733966

OPERATOR STATION

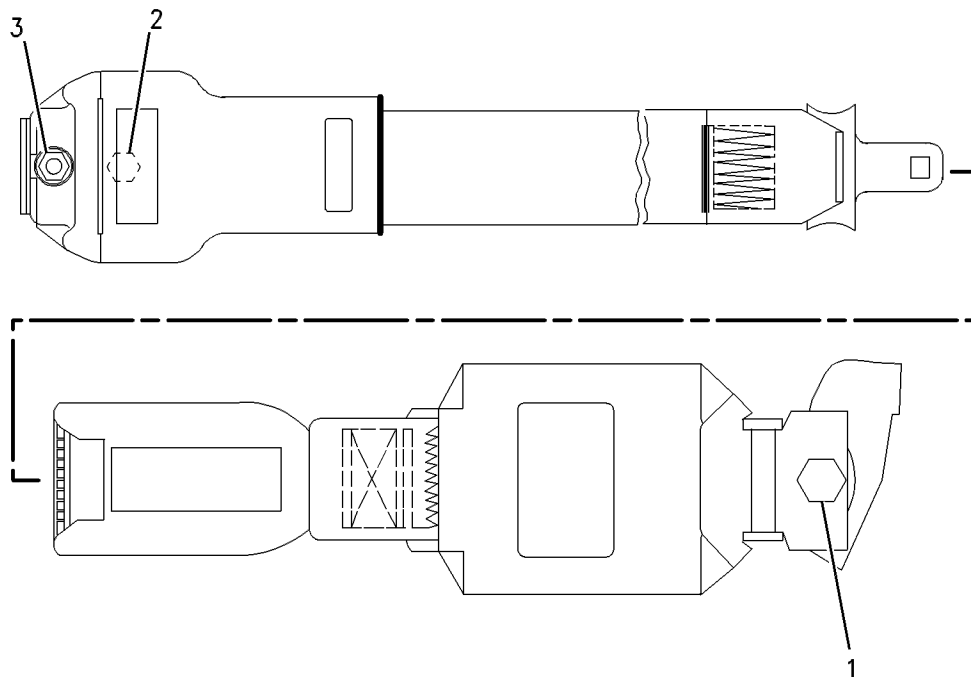
201-4436 SEAT BELT GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 188-0886 SEAT GP-SUSPENSION

SMCS-7327

i01506595

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-4724	1	BOLT (7/16-20X2.25IN)						
	2	1	9L-7816	1	BOLT (7/16-20X1.72IN)						
	3	1	8S-0934	1	LOCKNUT-FLANGE (7/16-20 THD)						



GRAPHIC #1

g00519388

OPERATOR STATION

161-3781 SEAT GP

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 188-0886 SEAT GP-SUSPENSION

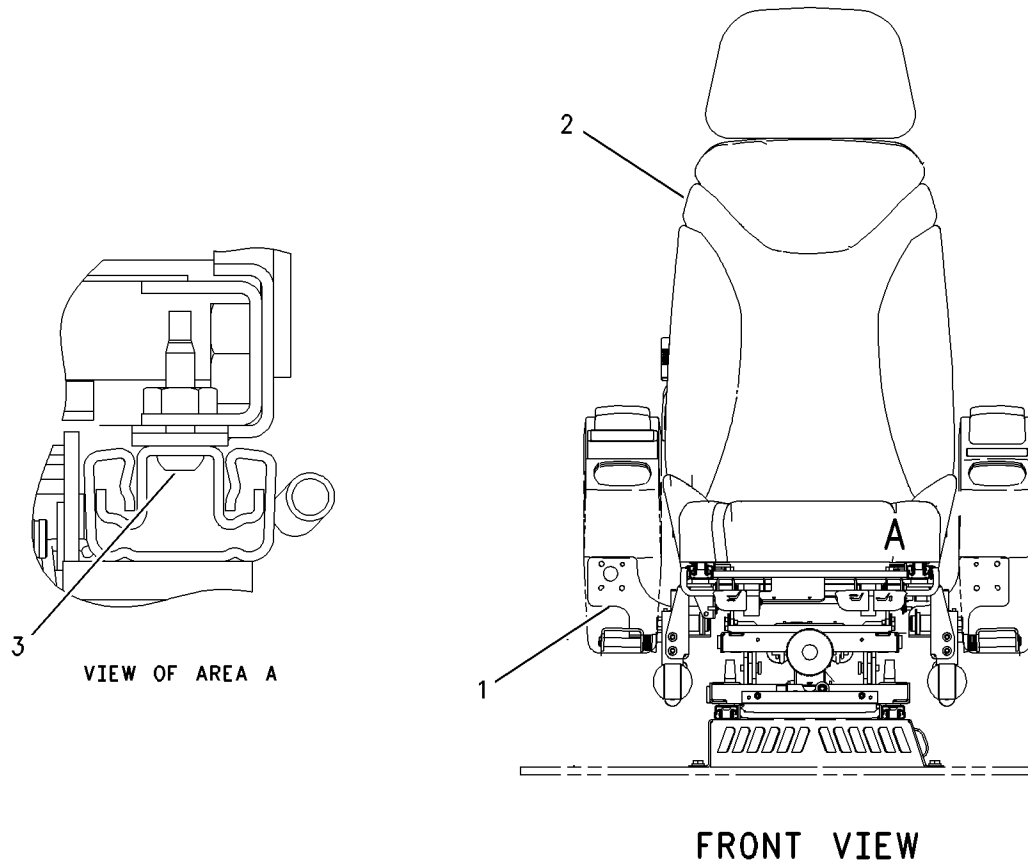
SMCS-7312

i01540428

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	164-0503	1	SUSPENSION GP-SEAT						679
	2	1	164-0506	1	SEAT GP						
		1	178-5659	1	KIT-HANDLE (LUMBAR SUPPORT ADJUSTER)						
		1	178-5660	1	KIT-HANDLE (RECLINER CONTROL)						
M	3	1	178-5565	4	SCREW-TRUSS HEAD						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00706357

OPERATOR STATION

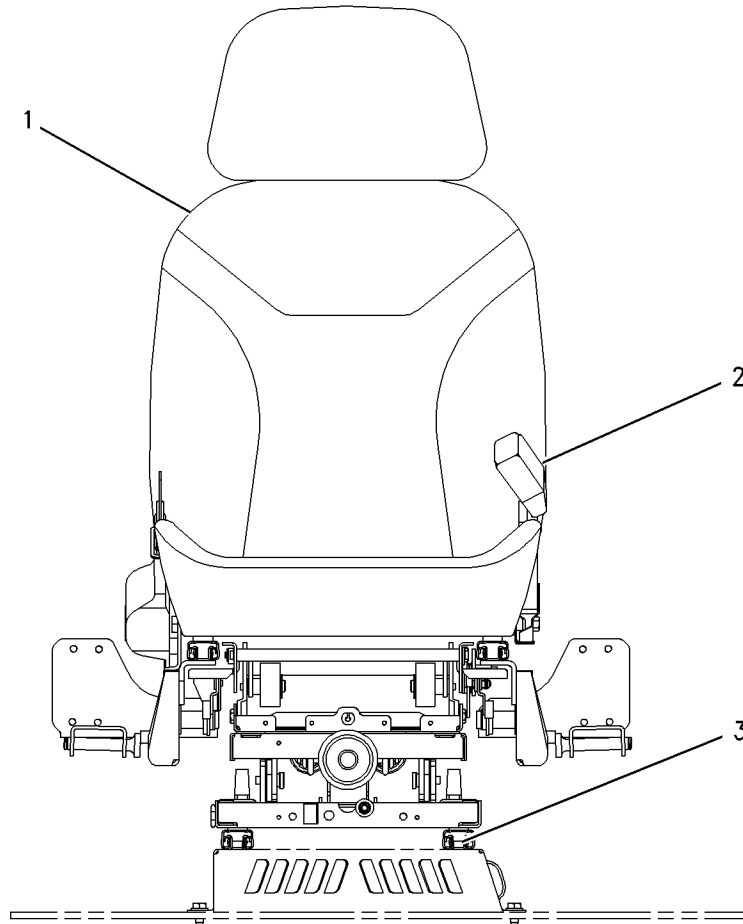
188-0886 SEAT GP-SUSPENSION

S/N: BPH1-UP; CAM1-UP; CBY1-UP
PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-7324, 7336

i01506529

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	161-3781	1	SEAT GP	676
CY	2	1	201-4436	1	SEAT BELT GP	675
M	3	1	6V-8202	4	BOLT-HEX SOCKET (M8X1.25X16MM)	
C-CHANGE FROM PREVIOUS TYPE						
M-METRIC PART						
Y-SEPARATE ILLUSTRATION						



FRONT VIEW

GRAPHIC #1

g00715198

OPERATOR STATION

161-3757 SUPPORT GP-SEAT

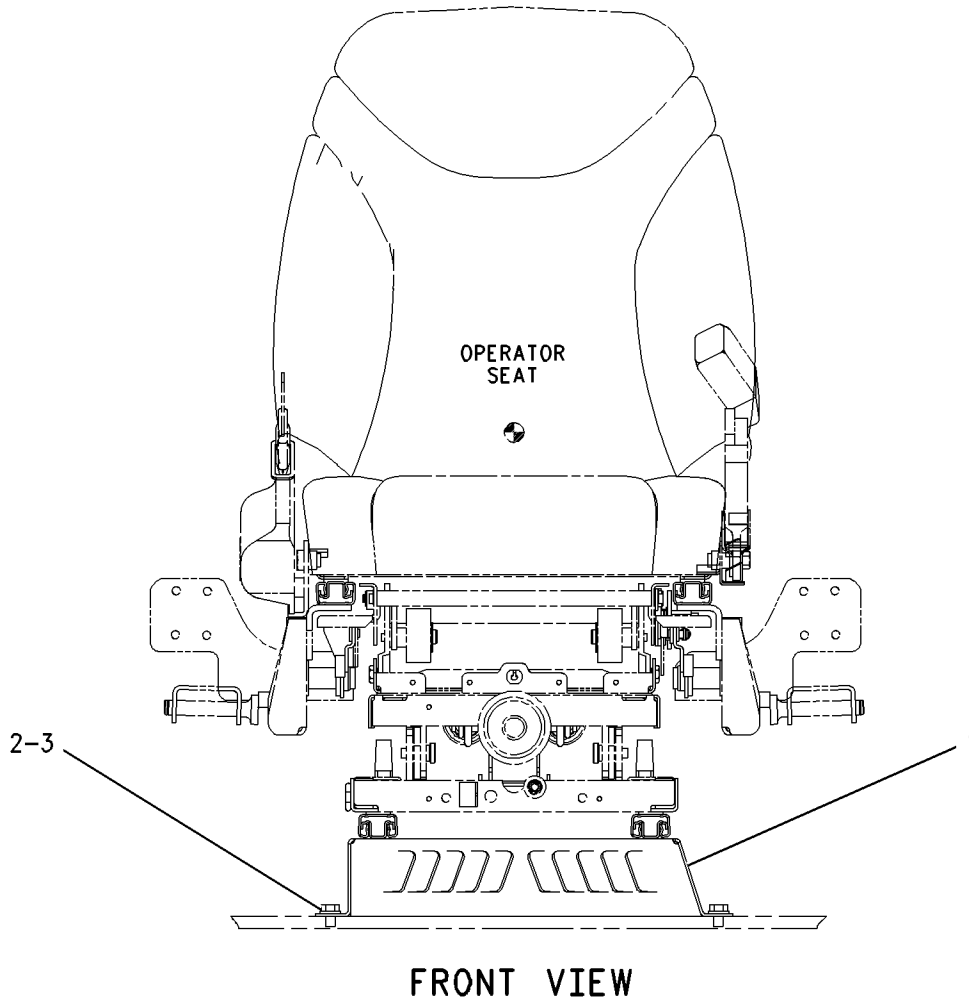
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2332, 203-9143 OPERATOR AR

SMCS-7321

i01354051

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-7043	1	SUPPORT AS-SEAT						
M		1	8T-3612	4	NUT-WELD (M8X1.25 THD)						
	2	1	8T-4121	4	WASHER-HARD (2.5MM THK)						
M	3	1	8T-4191	4	BOLT (M10X1.50X16MM)						
M-METRIC PART											



GRAPHIC #1

g00715596

OPERATOR STATION

164-0503 SUSPENSION GP-SEAT

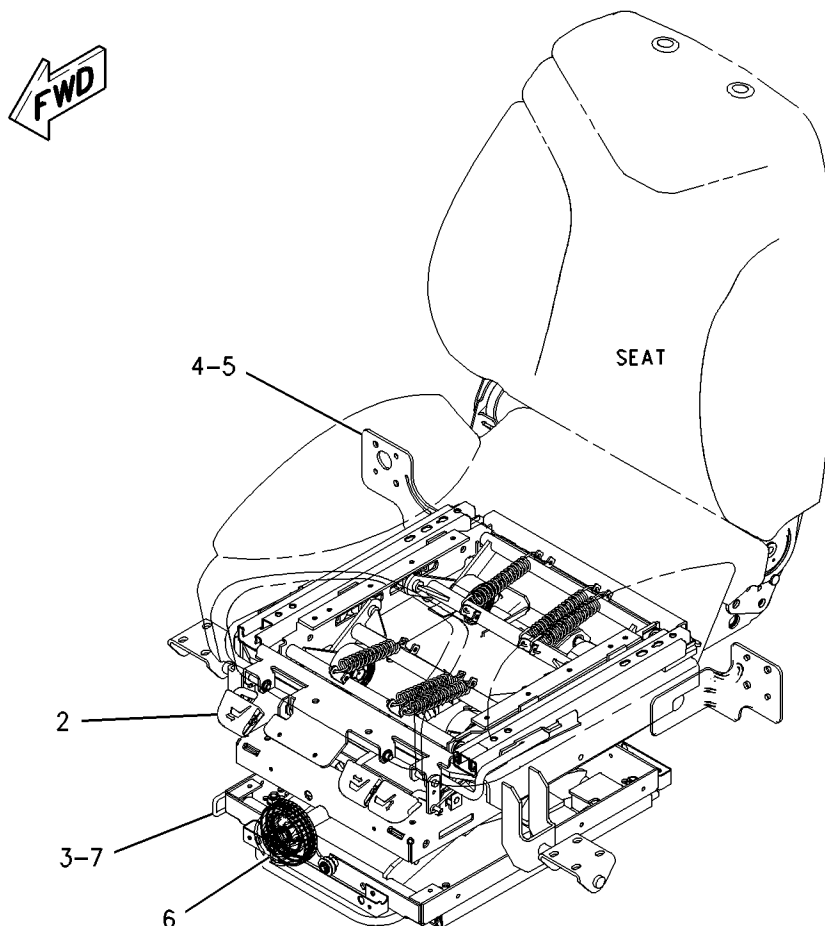
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 161-3781 SEAT GP

SMCS-7324

i01526271

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	178-5655	1	KIT-ADJUSTER						
	3	1	178-5656	1	KIT-ADJUSTER						
	4	1	185-8121	1	KIT-SUPPORT						
	5	1	185-8124	1	KIT-SEAT						
	6	1	185-8126	1	KIT-SEAT SUSPENSION						
	7	1	178-5657	1	KIT-CABLE ADJUSTER						
F			178-5654	1	KIT-SUSPENSION COVER						
F-NOT SHOWN											



GRAPHIC #1

g00792811

OPERATOR STATION

192-2341 TILT AR-CAB

S/N: BPH1-UP; CAM1-UP

18 INCHES CAB RISER

PART OF 192-2339 RISER AR-CAB

SMCS-7301

i01547249

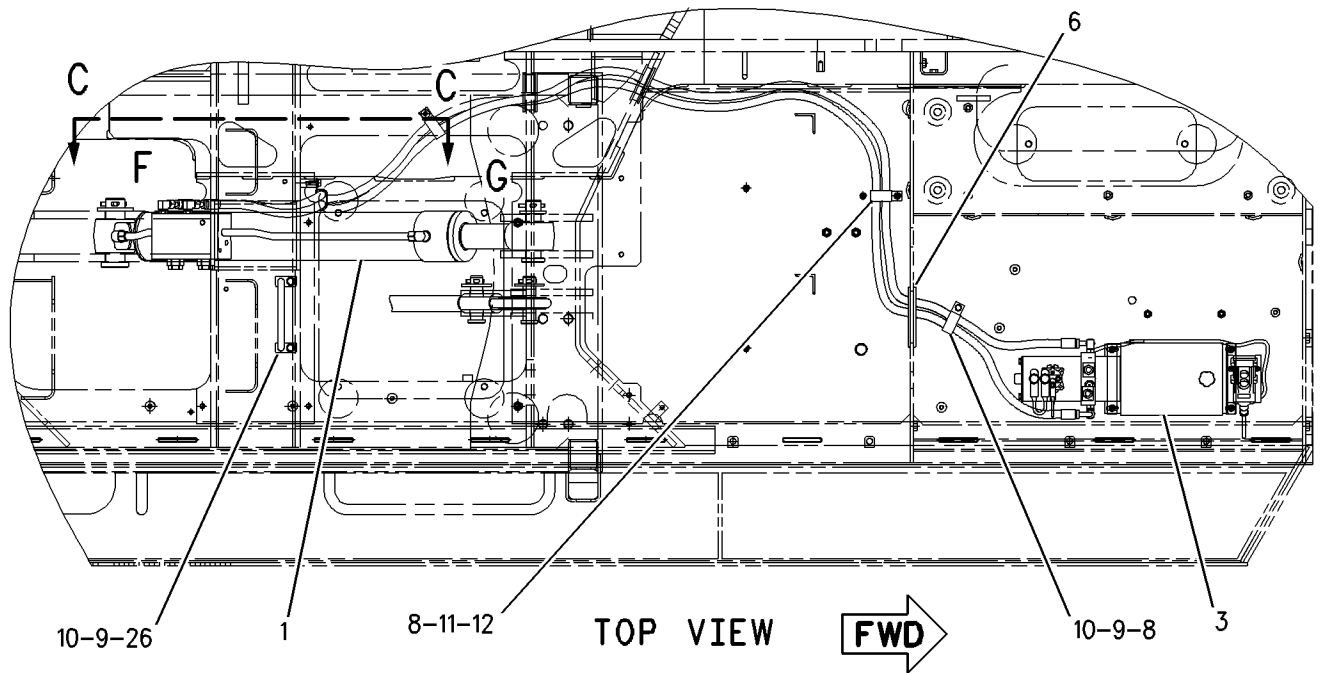
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-0173	1	CYLINDER & SEAL GP-CAB TILT						
	2	1	142-6725	1	CABLE AS						
	3	1	161-9564	1	CONTROL AS						
	4	2	161-9565	1	SWITCH AS (EXTEND CAB)						
	5	2	161-9566	1	SUPPORT AS						
	6	1	142-5536	2	GROMMET						
E	7	2	7I-7439		GUARD (100CM)						
	8	1,2	6D-1641	4	CLIP						
M	9	1,2	8T-4137	5	BOLT (M10X1.5X20MM)						
	10	1,2	8T-4121	5	WASHER-HARD (11X21X2.5MM THK)						
M	11	1	8T-4189	1	BOLT (M8X1.25X20MM)						
	12	1,2	8T-4224	5	WASHER-HARD (8.8X16X2MM THK)						
	13	2	161-9570	1	PIN						
	14	2	3S-6162	1	WASHER-HARD (40.5X67X6MM THK)						
	15	1	095-0863	2	COTTER						
	16	1	149-1809	2	PIN						
	17	1	4Y-5205	2	WASHER-HARD						
	18	2	7Y-0725	1	WASHER-HARD (52X92X8MM THK)						
	19	2	095-0867	1	PIN-COTTER						
	20	2	148-8378	4	ELBOW GP						
					(EACH INCLUDES)						
		2	3J-1907	1	SEAL-O-RING						
		2	6V-8397	1	SEAL-O-RING						
		2	6V-8724	1	ELBOW						
M	21	2	8T-4200	4	BOLT (M8X1.25X16MM)						
M	22	2	6V-9672	2	SCREW-MACHINE (M4X.7X16MM)						
	23	2	096-6166	2	WASHER-HARD (4.5X9X1MM THK)						
	24	2	186-3880	1	PIN						
	25	2	095-7943	1	COTTER						
	26	1	186-3933	1	SUPPORT AS						
	27	2	096-0061	1	STRAP-CABLE						
I	28	2	8W-4477	2	HOSE AS						

E-ORDER BY THE CENTIMETER
I-SEE HOSE FABRICATION GUIDE
M-METRIC PART

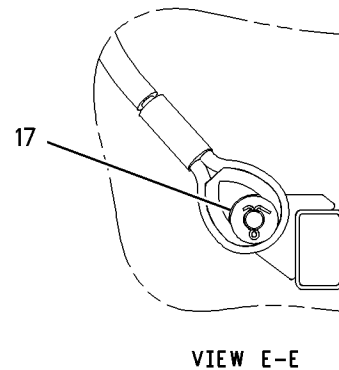
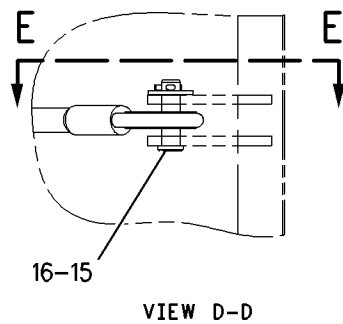
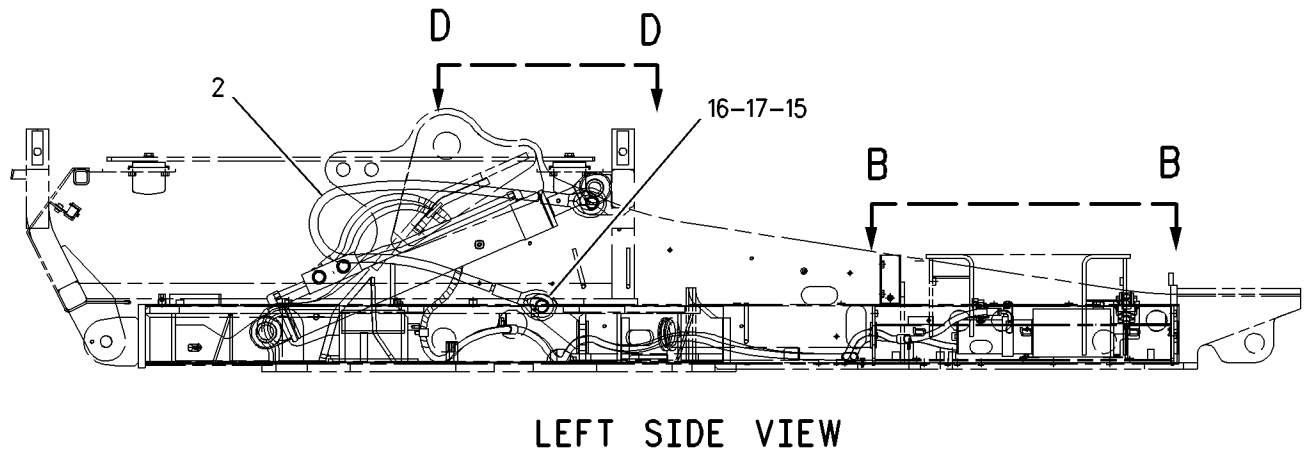
OPERATOR STATION

192-2341 TILT AR-CAB (contd.)

i01547249



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



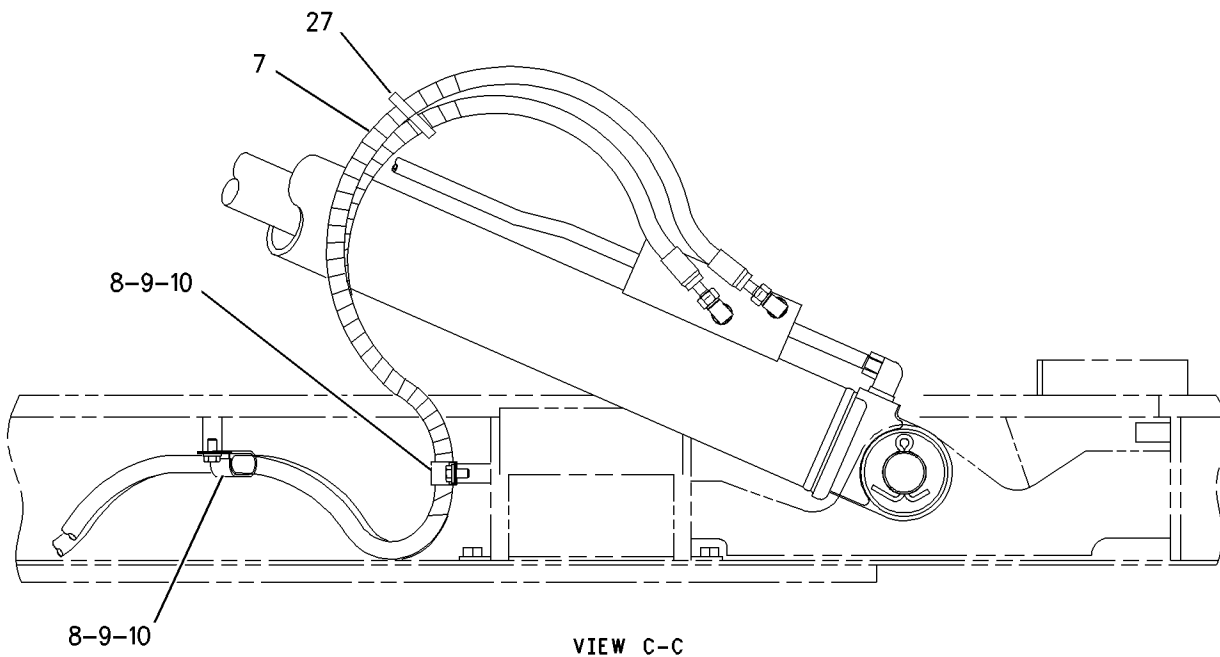
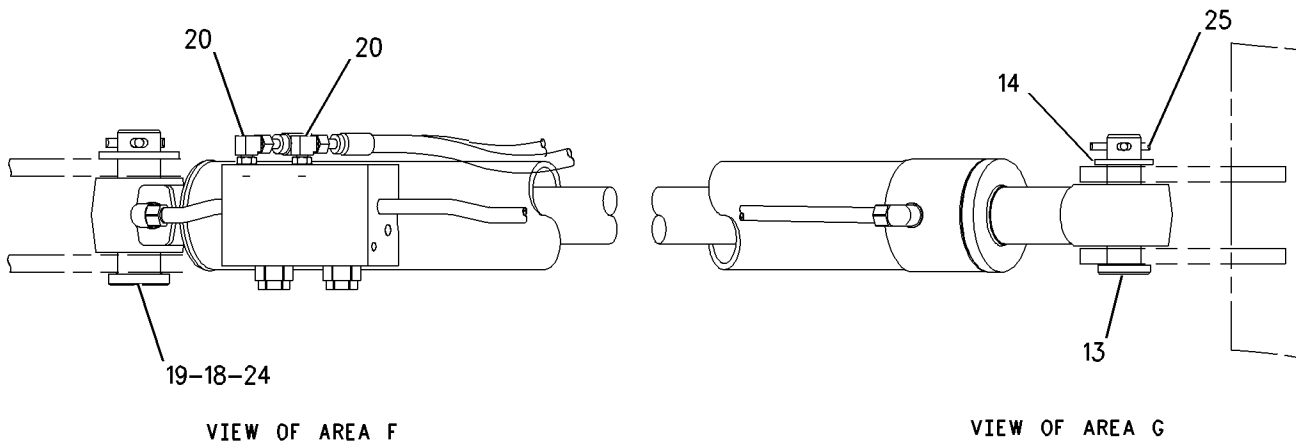
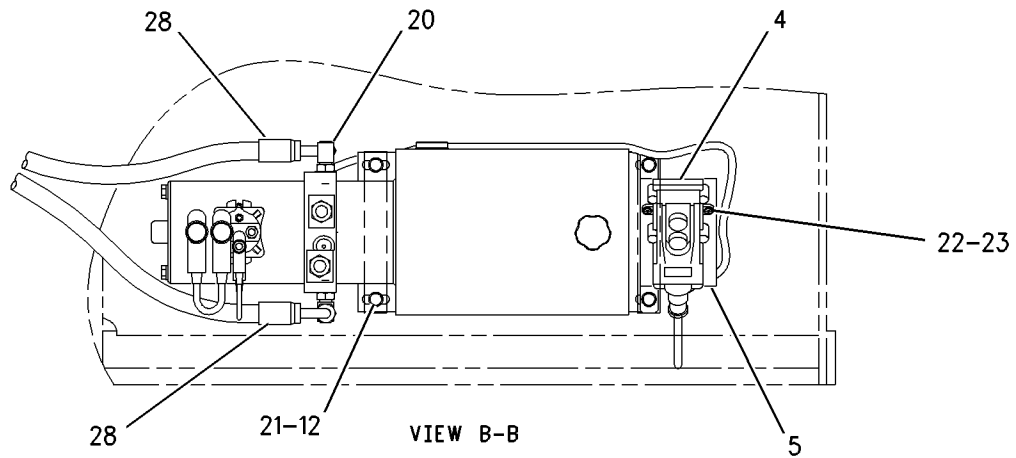
GRAPHIC #1

g00797308

OPERATOR STATION

192-2341 TILT AR-CAB (contd.)

i01547249



GRAPHIC #2

g00797258

MEMORANDA

OPERATOR STATION

192-2344 WASHER GP-WINDOW

S/N: BPH1-UP; CAM1-UP

PART OF 192-2339 RISER AR-CAB

SMCS-7306

i01528440

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4137	1	BOLT (M10X1.5X20MM)						
	2	1	8K-6211	3	CLIP (FOR 6.35MM BUNDLE)						
	3	1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
	4	1	5P-8522	1	GROMMET						
	5	1	096-0061	5	STRAP-CABLE						
	6	1	7Y-3474	1	VALVE AS						
E	7	1	144-0195		HOSE (380CM)						
F			6V-3265	1	CLIP						

E-ORDER BY THE CENTIMETER

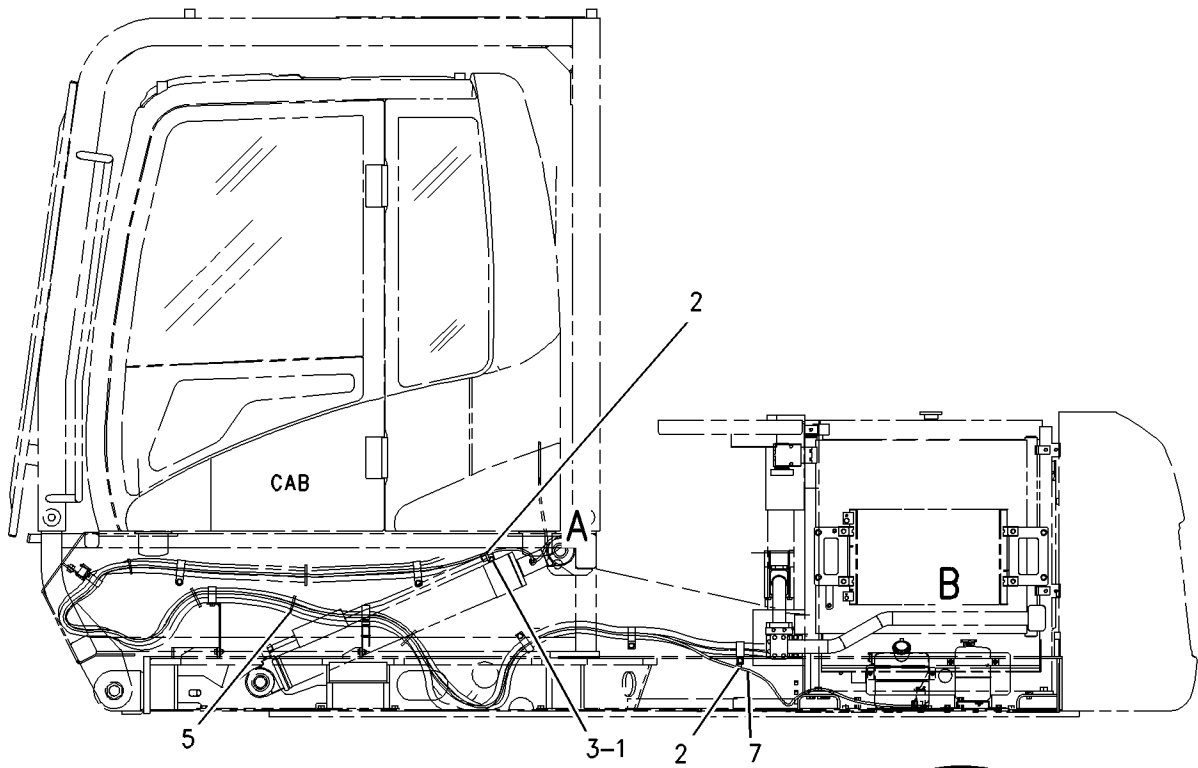
F-NOT SHOWN

M-METRIC PART

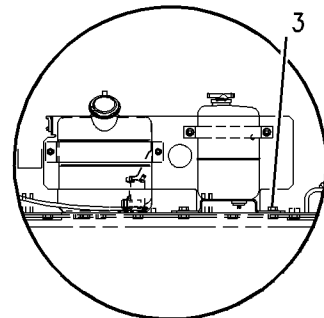
OPERATOR STATION

192-2344 WASHER GP-WINDOW (contd.)

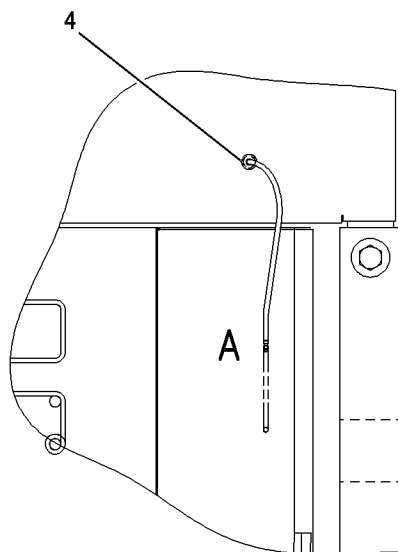
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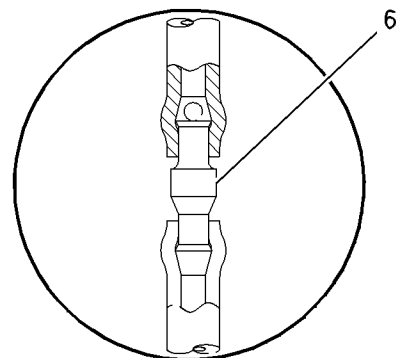
RIGHT SIDE VIEW



VIEW OF AREA B



VIEW OF AREA A



VIEW OF AREA A

GRAPHIC #1

g00793681

OPERATOR STATION

192-2345 WASHER GP-WINDOW

S/N: CBY1-UP

PART OF 192-2340 RISER AR-CAB

SMCS-7306

i01528451

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4137	2	BOLT (M10X1.5X20MM)						
	2	1	8K-6211	3	CLIP (FOR 6.35MM BUNDLE)						
	3	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
	4	1	5P-8522	1	GROMMET						
	5	1	096-0061	3	STRAP-CABLE						
	6	1	7Y-3474	1	VALVE AS						
E	7	1	144-0195		HOSE (450CM)						
F			6V-3265	1	CLIP						

E-ORDER BY THE CENTIMETER

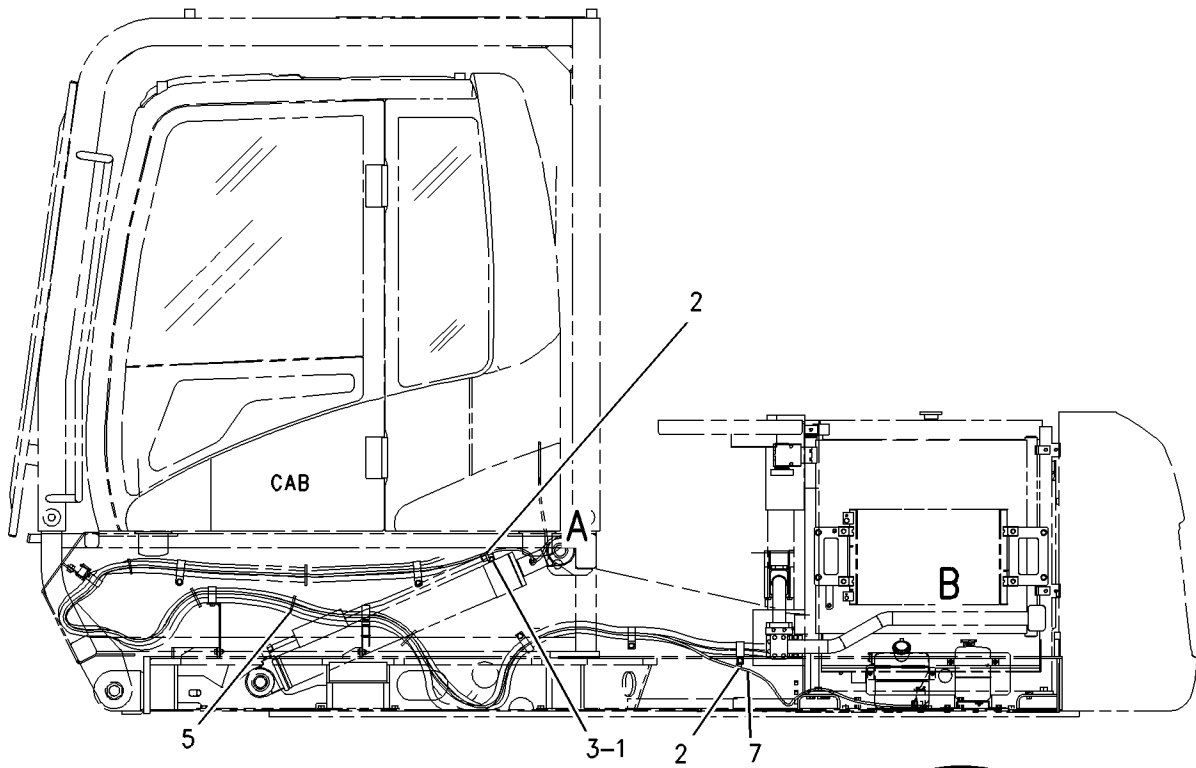
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M-METRIC PART

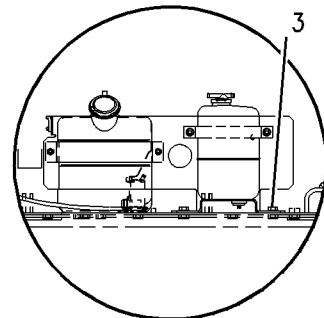
OPERATOR STATION

192-2345 WASHER GP-WINDOW (contd.)

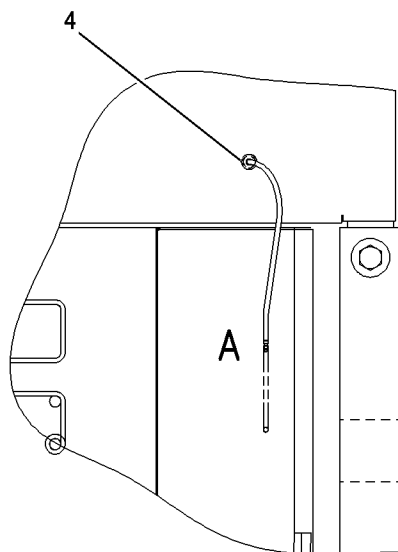
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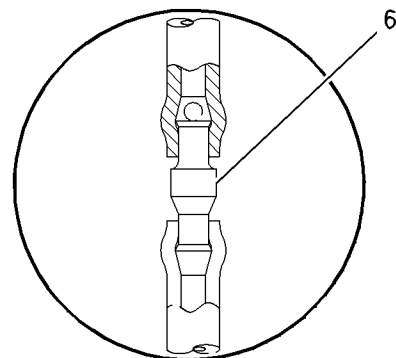
RIGHT SIDE VIEW



VIEW OF AREA B



VIEW OF AREA A



VIEW OF AREA A

GRAPHIC #1

g00793681

OPERATOR STATION

205-9122 WASHER GP-WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2316, 192-2317, 192-2318 CHASSIS AR

SMCS-7306

i01547228

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	8T-4136	3	BOLT (M10X1.5X25MM)						
M	8T-4970	2	BOLT (M6X1X14MM)						
	161-9560	1	BRACKET AS						
M	6V-9632	2	NUT-WELD (M6X1 THD)						
	7T-1099	4	LINK						
	6V-3265	2	CLIP						
E	144-0195		HOSE (300CM)						
	176-1995	1	SUPPORT						
	176-1931	1	TANK AS-WINDOW WASHER						
	5C-8138	1	GROMMET						
	7T-8890	1	PUMP AS-WASHER						
	178-5431	1	CAP						
	3W-6399	1	PACKING						
	9X-8256	2	WASHER (6.6X12X2MM THK)						
	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						

E-ORDER BY THE CENTIMETER
M-METRIC PART

OPERATOR STATION

171-7408 WIPER GP-WINDOW

S/N: BPH1-UP; CAM1-UP; CBY1-UP

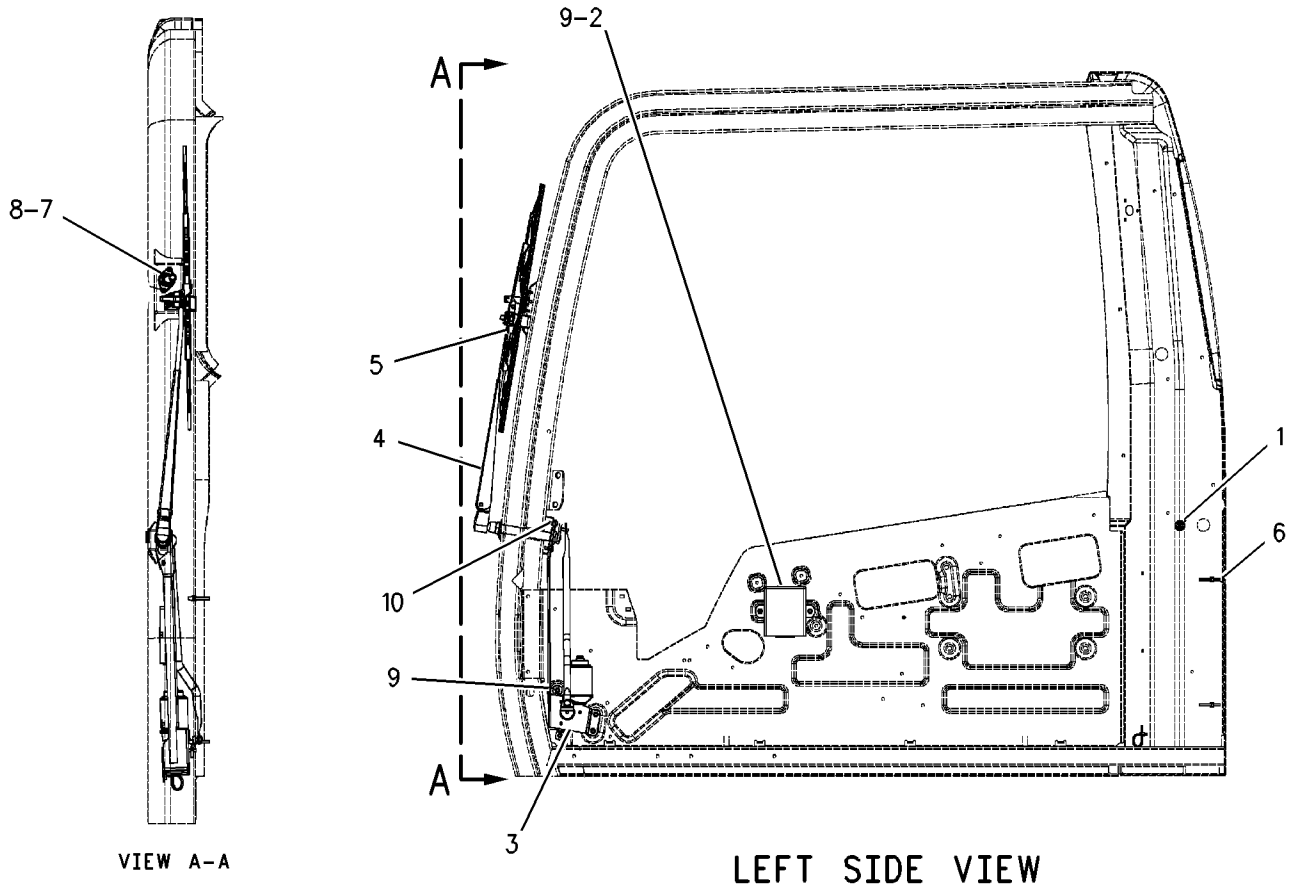
PART OF 192-2334 CAB GP

SMCS-7305

i01538008

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7Y-7364	1	GROMMET						
	2	1	155-7042	1	RELAY AS						
	3	1	189-3424	1	MOTOR AS						
	4	1	161-3668	1	ARM AS						
		1	161-3669	1	GUIDE						
		1	161-3670	1	BLADE AS						
	5	1	161-3677	1	HOLDER						
	6	1	163-6795	3	STRAP						
	7	1	176-1948	1	NOZZLE AS						
M	8	1	3E-9872	2	SCREW AS						
					(EACH INCLUDES)						
M		1	095-0728	1	SCREW-MACHINE (M4X0.7X12MM)						
		1	096-6166	1	WASHER-HARD (4.5X9X1MM THK)						
M	9	1	8T-4134	6	NUT (M6X1 THD)						
M	10	1	9X-2044	3	SCREW-TRUSS HEAD (M6X1X16MM)						

M-METRIC PART



GRAPHIC #1

g00722988

SERVICE EQUIPMENT AND SUPPLIES

144-8544 FILM GP

S/N: CBY1-UP

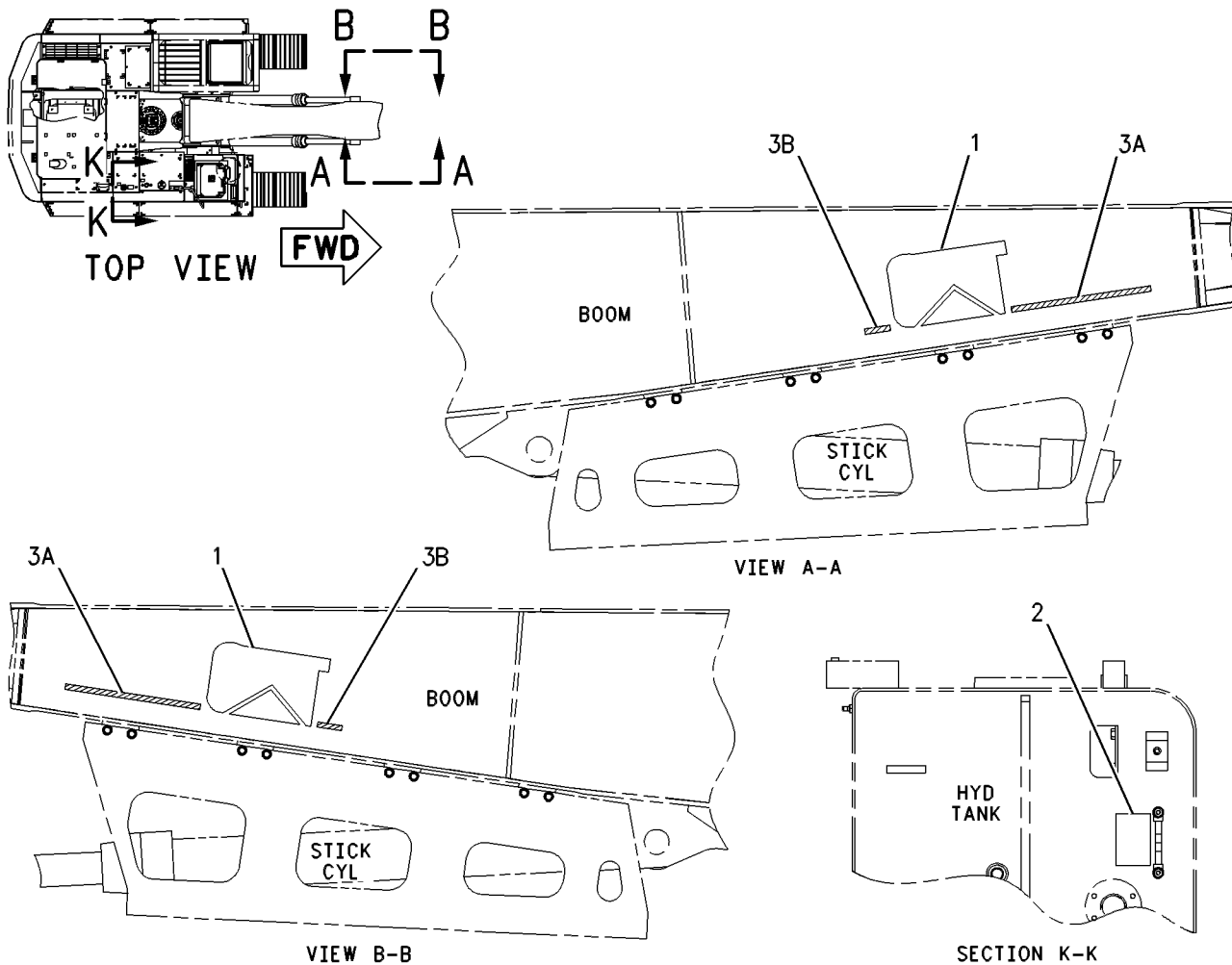
PART OF 192-2351 LINKAGE AR
AN ATTACHMENT

SMCS-7405, 7557

i01009708

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-6670	2	FILM-CAT (LOCATED ON BOTH SIDES OF BOOM)						
	2	1	115-9963	1	FILM-INSTRUCTION (HYD OIL LEVEL) (LOCATED ON HYD TANK)						
BE	3A	1	101-2473		FILM-STRIPE (RED ACCENT/23MM WIDE) (55CM EACH SIDE OF BOOM)						
BE	3B	1	101-2473		FILM-STRIPE (RED ACCENT/23MM WIDE) (10CM EACH SIDE OF BOOM)						

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00542837

SERVICE EQUIPMENT AND SUPPLIES

5P-8502 PADLOCK GP

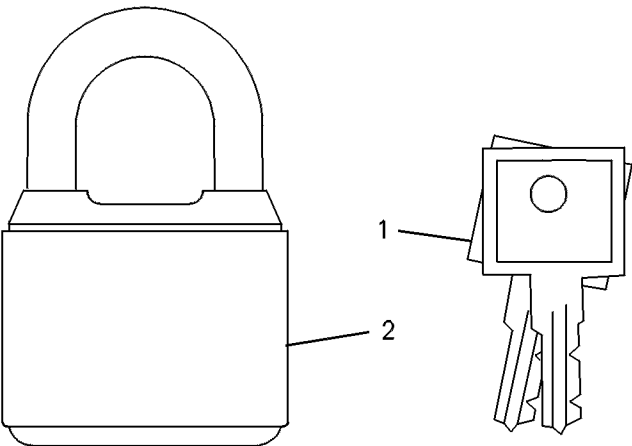
S/N: BPH1-UP; CAM1-UP; CBY1-UP

PART OF 192-2322 HOOD & GUARD GP, 184-8370 TANK & MTG GP-FUEL

SMCS-7430

i01462530

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8500	1	KEY						



GRAPHIC #1

g00084900

SERVICE EQUIPMENT AND SUPPLIES

192-2327 PLATE & FILM GP

S/N: BPH1-UP

PART OF 192-2316 CHASSIS AR

SMCS-7405, 7557

i01509939

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1P-2807	4	FILM (LIFT EYE LOCATION)						
	150-8108	1	FILM (CAT)						
	167-7272	1	FILM (CAT)						
	176-2753	1	FILM (THROTTLE CONTROL SWITCH)						
	176-2825	2	FILM (322C)						
	186-3871	1	FILM (CAB TILT)						
	200-3944	1	FILM						
	4P-6464	1	FILM-AIR CLEANER (RADIAL SEAL)						
	187-9185	1	FILM-ALTERNATE EXIT						
	188-7090	1	FILM-ALTERNATE EXIT						
	105-7545	2	FILM-CAT						
	127-5282	1	FILM-CAT (RH)						
	127-5283	1	FILM-CAT (LH)						
	169-7659	1	FILM-CIRCUIT BREAKER						
	200-3945	1	FILM-FUSE PANEL						
	134-7258	1	FILM-IDENTIFICATION (EXTENDED LIFE COOLANT)						
	4I-8472	1	FILM-INSTRUCTION (IMPLEMENT CONTROLS)						
	7Y-0014	1	FILM-INSTRUCTION (HYD OIL LEVEL)						
	120-5107	3	FILM-INSTRUCTION (HOT SURFACE)						
	144-9126	1	FILM-INSTRUCTION (OIL)						
	167-7270	1	FILM-INSTRUCTION (NO STEP)						
	4I-8088	1	FILM-NOTICE (ENGINE START SWITCH)						
	8T-1915	5	FILM-NOTICE (WINDOW CLEANING)						
	5P-0345	1	FILM-PATENT (EXCAVATOR)						
	9M-0016	1	FILM-PATENT (ENGINE)						
	190-5386	2	FILM-REFLECTOR (RED)						
E	101-2473		FILM-STRIPE (RED ACCENT/23MM WIDE) (670CM)						
	144-1657	2	FILM-STRIPE (FOREST MACHINE)						
	7X-7644	4	FILM-TIE DOWN						
	1R-6245	1	FILM-WARNING (TRAVEL CONTROL)						
	4P-6422	1	FILM-WARNING (NO ETHER/AIR INTAKE)						
	6V-4611	1	FILM-WARNING (JUMPER CABLE)						
	7Y-0003	1	FILM-WARNING (CLEARANCE)						
	7Y-0005	1	FILM-WARNING (ENGINE SPEED CONTROL)						
	7Y-0012	2	FILM-WARNING (TANK LIFTING)						
	7Y-0013	1	FILM-WARNING (HYDRAULIC TANK)						
	120-5129	1	FILM-WARNING (ACCUMULATOR)						
	134-2374	1	FILM-WARNING (CAB TILT)						
	156-3849	1	FILM-WARNING (RADIATOR)						
	167-7223	1	FILM-WARNING (UNIVERSAL)						
	176-2666	1	FILM-WARNING (WINSHIELD)						
	188-7268	2	FILM-WARNING (CRUSHING SWING MACHINE CTWT)						
	186-3862	1	PLATE (WARNING)						
	3E-8140	3	PLATE-WARNING (NO CLEARANCE)						
	4B-4158	4	SCREW-DRIVE (3/16X0.25 IN)						

E-ORDER BY THE CENTIMETER

SERVICE EQUIPMENT AND SUPPLIES

192-2328 PLATE & FILM GP

S/N: CAM1-UP

322C FM

PART OF 192-2317 CHASSIS AR

SMCS-7405, 7557

i01516167

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1P-2807	4	FILM (LIFT EYE LOCATION)						
	150-8108	1	FILM (CAT)						
	167-7272	1	FILM (CAT)						
	176-2753	1	FILM (THROTTLE CONTROL SWITCH)						
	176-2825	2	FILM (322C)						
	186-3871	1	FILM (CAB TILT)						
	200-3944	1	FILM						
	4P-6464	1	FILM-AIR CLEANER (RADIAL SEAL)						
	187-9185	1	FILM-ALTERNATE EXIT						
	188-7090	1	FILM-ALTERNATE EXIT						
	105-7545	2	FILM-CAT						
	127-5282	1	FILM-CAT (RH)						
	127-5283	1	FILM-CAT (LH)						
	169-7659	1	FILM-CIRCUIT BREAKER						
	200-3945	1	FILM-FUSE PANEL						
	134-7258	1	FILM-IDENTIFICATION (EXTENDED LIFE COOLANT)						
	4I-8472	1	FILM-INSTRUCTION (IMPLEMENT CONTROLS)						
	7Y-0014	1	FILM-INSTRUCTION (HYD OIL LEVEL)						
	120-5107	3	FILM-INSTRUCTION (HOT SURFACE)						
	144-9126	1	FILM-INSTRUCTION (OIL)						
	167-7270	1	FILM-INSTRUCTION (NO STEP)						
	4I-8088	1	FILM-NOTICE (ENGINE START SWITCH)						
	8T-1915	5	FILM-NOTICE (WINDOW CLEANING)						
	5P-0345	1	FILM-PATENT (EXCAVATOR)						
	190-5386	2	FILM-REFLECTOR (RED)						
E	101-2473		FILM-STRIPE (RED ACCENT/23MM WIDE) (670CM)						
	144-1657	2	FILM-STRIPE (FOREST MACHINE)						
	7X-7644	4	FILM-TIE DOWN						
	1R-6245	1	FILM-WARNING (TRAVEL CONTROL)						
	4P-6422	1	FILM-WARNING (NO ETHER/AIR INTAKE)						
	6V-4611	1	FILM-WARNING (JUMPER CABLE)						
	7Y-0003	1	FILM-WARNING (CLEARANCE)						
	7Y-0005	1	FILM-WARNING (ENGINE SPEED CONTROL)						
	7Y-0012	2	FILM-WARNING (TANK LIFTING)						
	7Y-0013	1	FILM-WARNING (HYDRAULIC TANK)						
	120-5129	1	FILM-WARNING (ACCUMULATOR)						
	134-2374	1	FILM-WARNING (CAB TILT)						
	156-3849	1	FILM-WARNING (RADIATOR)						
	167-7223	1	FILM-WARNING (UNIVERSAL)						
	176-2666	1	FILM-WARNING (WINSHIELD)						
	188-7268	2	FILM-WARNING (CRUSHING SWING MACHINE CTWT)						
	9X-1878	1	PLATE (PRODUCT IDENTIFICATION)						
	186-3862	1	PLATE (WARNING)						
	3E-8140	3	PLATE-WARNING (NO CLEARANCE)						
	4B-4158	4	SCREW-DRIVE (3/16X0.25 IN)						
	9X-6562	4	TACK-FASTENER						

E-ORDER BY THE CENTIMETER

SERVICE EQUIPMENT AND SUPPLIES

192-2329 PLATE & FILM GP

S/N: CBY1-UP

322C LL

PART OF 192-2318 CHASSIS AR

SMCS-7405, 7557

101517996

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1P-2807	4	FILM (LIFT EYE LOCATION)						
	150-8108	1	FILM (CAT)						
	167-7272	1	FILM (CAT)						
	176-2825	2	FILM (322C)						
	186-3871	1	FILM (CAB TILT)						
	200-3944	1	FILM						
	176-2753	1	FILM (THROTTLE CONTROL SWITCH)						
	4P-6464	1	FILM-AIR CLEANER (RADIAL SEAL)						
	187-9185	1	FILM-ALTERNATE EXIT						
	188-7090	1	FILM-ALTERNATE EXIT						
	9X-6670	2	FILM-CAT						
	105-7545	2	FILM-CAT						
	169-7659	1	FILM-CIRCUIT BREAKER						
	200-3945	1	FILM-FUSE PANEL						
	134-7258	1	FILM-IDENTIFICATION (EXTENDED LIFE COOLANT)						
	115-9963	1	FILM-INSTRUCTION (HYD OIL LEVEL)						
	120-5107	3	FILM-INSTRUCTION (HOT SURFACE)						
	144-9126	1	FILM-INSTRUCTION (OIL)						
	167-7270	1	FILM-INSTRUCTION (NO STEP)						
	136-9234	1	FILM-INSTRUCTION (LOGGER CONTROLS)						
	4I-8088	1	FILM-NOTICE (ENGINE START SWITCH)						
	8T-1915	5	FILM-NOTICE (WINDOW CLEANING)						
	5P-0345	1	FILM-PATENT (EXCAVATOR)						
	9M-0016	1	FILM-PATENT (ENGINE)						
	190-5386	2	FILM-REFLECTOR (RED)						
E	101-2473		FILM-STRIPE (RED ACCENT/23MM WIDE) (670CM)						
	144-1657	2	FILM-STRIPE (FOREST MACHINE)						
	7X-7644	4	FILM-TIE DOWN						
	4P-6422	1	FILM-WARNING (NO ETHER/AIR INTAKE)						
	6V-4611	1	FILM-WARNING (JUMPER CABLE)						
	7Y-0012	2	FILM-WARNING (TANK LIFTING)						
	7Y-0013	1	FILM-WARNING (HYDRAULIC TANK)						
	120-5129	1	FILM-WARNING (ACCUMULATOR)						
	134-2374	1	FILM-WARNING (CAB TILT)						
	156-3849	1	FILM-WARNING (RADIATOR)						
	188-7268	2	FILM-WARNING (CRUSHING SWING MACHINE CTWT)						
	1R-6245	1	FILM-WARNING (TRAVEL CONTROL)						
	7Y-0003	1	FILM-WARNING (CLEARANCE)						
	7Y-0005	1	FILM-WARNING (ENGINE SPEED CONTROL)						
	167-7223	1	FILM-WARNING (UNIVERSAL)						
	176-2666	1	FILM-WARNING (WINSHIELD)						
	9X-1878	1	PLATE (PRODUCT IDENTIFICATION)						
	186-3862	1	PLATE (WARNING)						
	3E-8140	3	PLATE-WARNING (NO CLEARANCE)						
	4B-4158	4	SCREW-DRIVE (3/16X0.25 IN)						
	9X-6562	4	TACK-FASTENER						

E-ORDER BY THE CENTIMETER

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