PARTS MANUAL

H400HD, H450HD, H400HDS, H450HDS (B236)

CUSTOMER EDITION

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SECTIONS

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9	HYDRAULIC SYSTEM
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This Parts Manual is divided into 14 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.

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ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION
Amp	Amperes
AR	As Required
BDI	Battery Discharge Indicators
BWI	Brush Wear Indicator
CE	Communicator End
CRE	Corrosive Environment
D/B	Date Break
dbA	Decibel "A" Scale
DE	Drive End
ECH	Empty Container Handler
ECH-3	Empty Container Handler - 3 High Stacking
ECH-4	Empty Container Handler - 4 High Stacking
ECH-5	Empty Container Handler - 5 High Stacking
ECH-6	Empty Container Handler - 6 High Stacking
ECH-7	Empty Container Handler - 7 High Stacking
ECM	Electronic Control Module
ECN	Engineering Change Notice
EEPROM	Electrically Erasable Programmable Read Only Memory
EPA	US Environmental Protection Agency
EPROM	Electrically Programmable Read Only Memory

TERM	DEFINITION
FRE	Freezer Environment
in.	inches
LPG	Liquefied Petroleum Gas
MAP	Manifold Absolute Pressure
mm	millimeters
MSTS	Microprocessor Spark Timing System
NPT	National Pipe Threads
O/S	Oversize
PTO	Power Take Off
RPM	Revolutions per Minute
S/N	Serial Number
TMM	Truck Management Module
UL Type D	Diesel-Powered Safety Rating
UL Type DS	Diesel-Powered Safety Rating
UL Type E	Battery-Powered Safety Rating
UL Type EE	Battery-Powered Safety Rating
UL Type ES	Battery-Powered Safety Rating
UL Type G	Gasoline-Powered Safety Rating
UL Type GS	Gasoline-Powered Safety Rating
UL Type LP	Gas-Powered Safety Rating
UL Type LPS	LP Gas-Powered Safety Rating
U/S	Undersize
UL	Underwriters Laboratory
V	Volts

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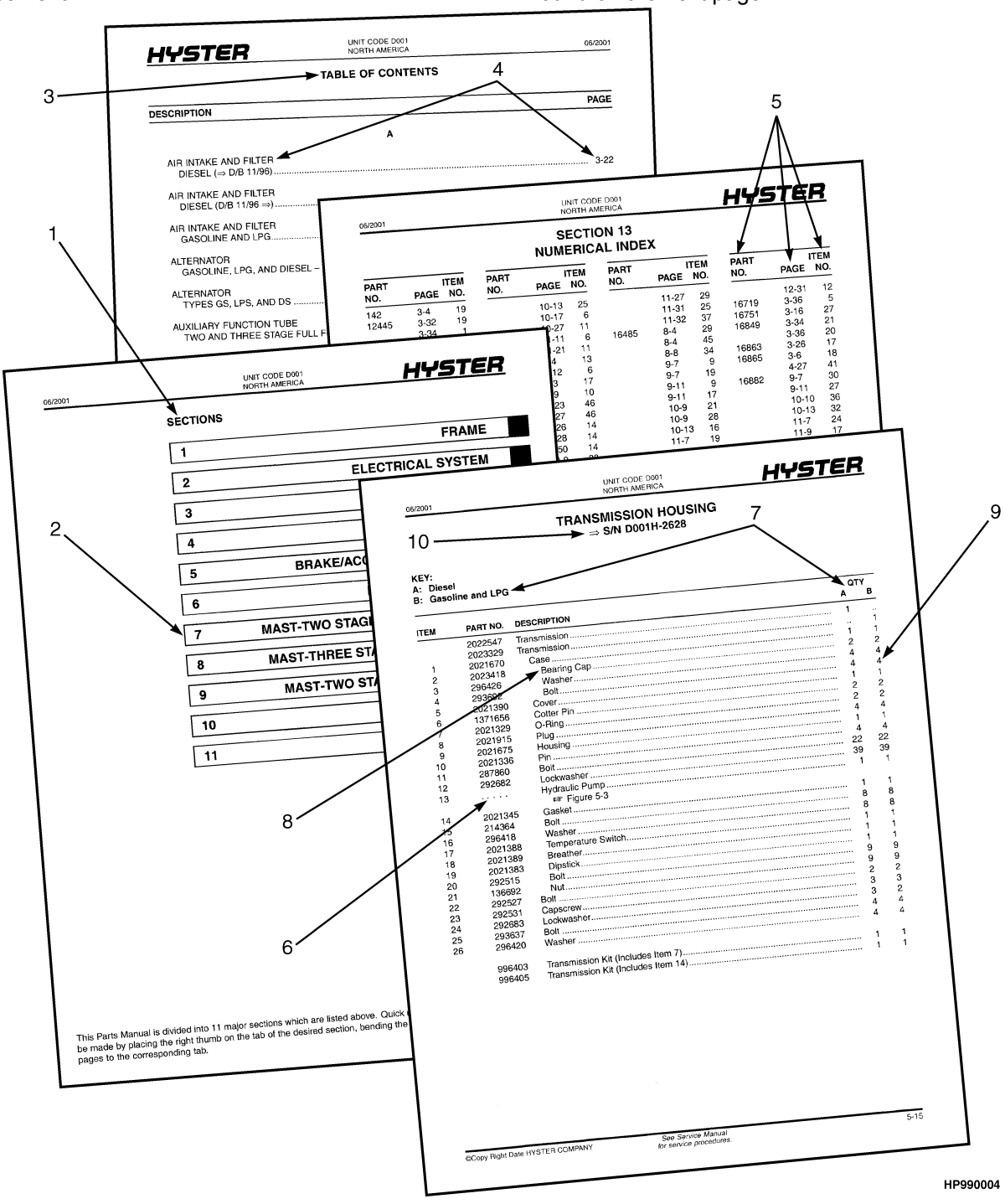
HOW TO USE THE ILLUSTRATED PARTS MANUAL

This parts manual describes and illustrates assemblies, subassemblies, and detail parts needed for service replacement.

The different constructions are indicated by keys and footnotes. The callouts correspond to descriptions found on the next page.



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HOW TO FIND THE DESIRED PART NUMBER

WHEN THE PART NUMBER AND THE NEXT HIGHER ASSEMBLY IS NOT KNOWN:

1. Determine the function and application of the part required. Turn to the Sections Page. Choose the general area of reference most likely to include the part.
2. Turn to the section you chose. Use the Section Table of Contents to determine the assembly which would normally contain the part required. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS NOT KNOWN AND THE NEXT HIGHER ASSEMBLY IS KNOWN:

3. Determine the assembly the required part is used on. Turn to the Table of Contents (Page i).
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 14-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting correct parts.

6. Parts Supersession Information. Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

   Five periods in the PART NO. column (. . . . .) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a figure number in the DESCRIPTION column (☞Figure 10)
7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and subparts of assemblies. In the example on the previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.
9. Quantities shown are for one assembly. The quantities of the subpart *BEARING CAP* are indicated as two and two. This means two per *CASE* assembly.
10. Serial number breaks identify the most current parts information and are shown as follows:
    → S/N D001H2628
    Indicates last serial number affected.
    S/N D001H2629 →
    Indicates the first serial number affected.
    S/N D001H1553 ↔ S/N D001H3291
    Indicates a range of serial numbers affected.

    ECN numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information and are identified as follows:
    → S/N Pending Per ECN 63243
    Indicates a pending serial number for last unit affected.
    S/N Pending Per ECN 63243 →
    Indicates a pending serial number for first unit affected.

    Date breaks are used to indicate when a change occurred but a subsequent serial number break was not recorded. This is an arbitrary date usually based on the ECN release and are identified as follows:
    → D/B 3/00
    Indicates that a change occurred sometime within that month for the item affected.
    D/B 3/00 →
    Indicates that a change occurred sometime within that month for the item affected.
    D/B 3/00 ↔ D/B 4/00
    Indicates a range of production dates of the item affected.

    Contact your local dealer for Hyster lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

For any further information on parts, service, or ordering, consult your local dealer for Hyster lift trucks.

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IDENTIFICATION OF TRUCK SERIAL NUMBERS

X	OOO	X	OOOO	X
(1)	(2)	(3)	(4)	(5)

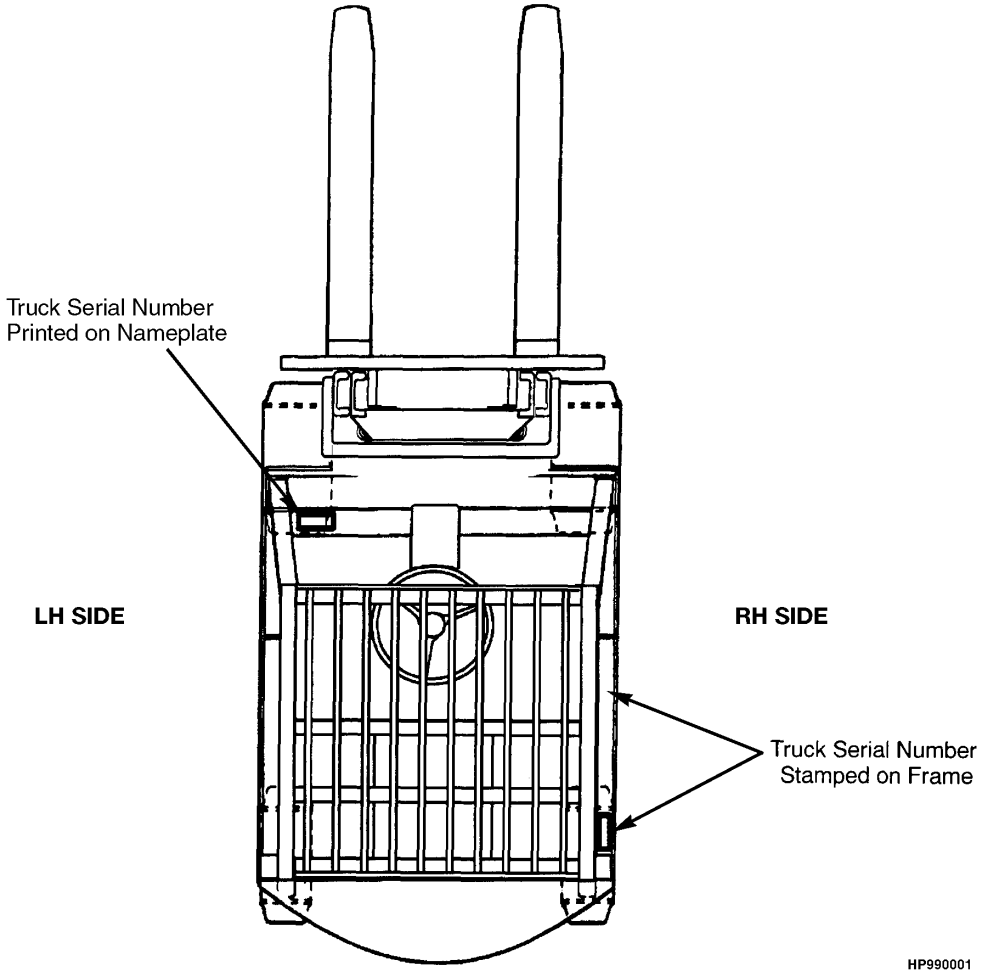
(1) and (2) The first letter and three numbers indicate the truck unit code.

(3) The second letter indicates the plant of manufacture.

(4) The four or five digit number indicates the production sequence number of the truck.

(5) The final letter indicates the year of manufacture starting with "A" in 1957, 1980, and 2003. The letters "I", "O", and "Q" will not be used.

For pending serial numbers contact your local dealer for Hyster lift trucks.



Parts referred to in this book as right or left hand parts are in accordance with the illustration above.

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IDENTIFICATION OF MAST SERIAL NUMBERS

X OOO X OOOO

(1) (2) (3) (4)

OOOO

(5)

(1) and (2) The first letter and number indicates the mast unit code.

(3) The second letter indicates the plant of manufacture.

(4) The four or five digit number indicates the production sequence number of the mast.

(5) Carriage travel in millimeters stamped just below the serial number.

Mast Group identification consists of mast unit code (1) and (2) plus carriage travel (5).

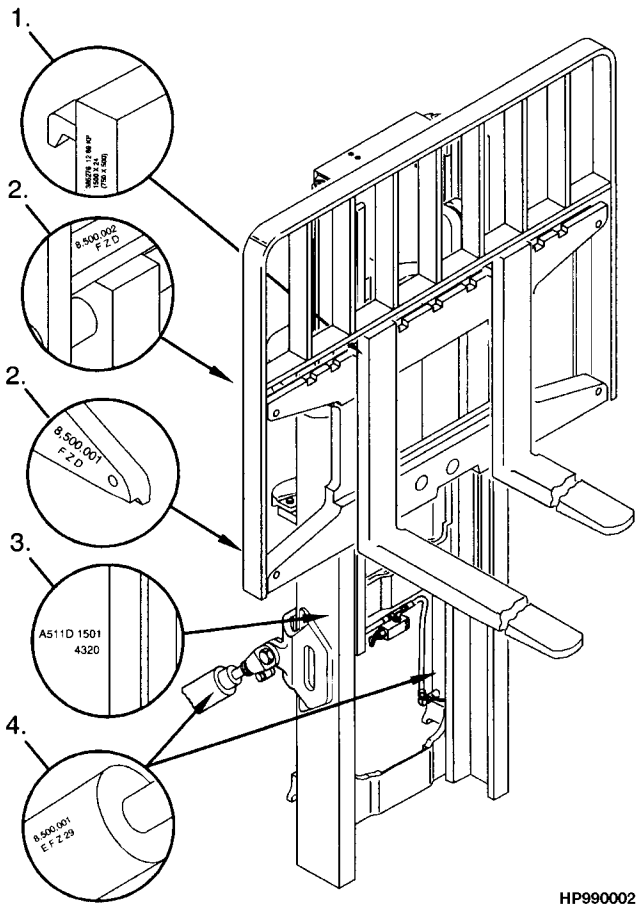
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

LIFT EQUIPMENT IDENTIFICATION

1. Fork part number, capacity rating, plant code letter, and date of manufacture are stamped approximately six inches below the top of most forks.
2. The carriage group number is stamped on the right hand side of the top crossmember (pin type) or on the back of the right hand end of the bottom crossmember (hook type). A date code has two letters in line with or below the carriage group number.
3. The mast identification number has a unit code, a letter indicating the plant of manufacture, and a serial number. Underneath the production sequence number is a four digit number that indicates the carriage travel in millimeters.
4. Tilt and lift cylinder group numbers are stamped on the cylinder shell.

   Always refer to the group, serial, or part number when ordering service parts.

   Modification of masts and carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". contact your dealer for Hyster lift trucks for information on these assemblies.



HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS

X OOO X OOOO

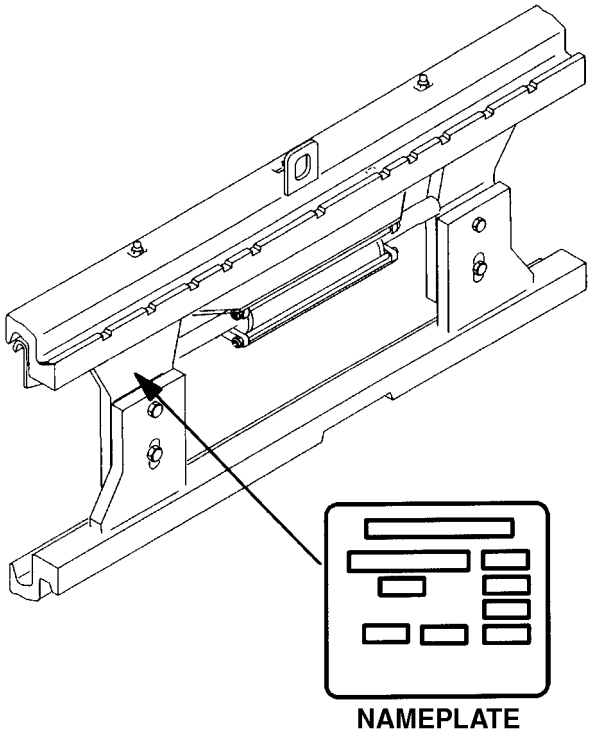
(1) (2) (3) (4)

(1) and (2) The first letter and three numbers indicate the attachment unit code.

(3) The second letter indicates the plant of manufacture.

(4) The four or five digit number indicates the production sequence number.

For pending production sequence numbers contact your local dealer for Hyster lift trucks.



Side-shift carriages and attachments have nameplates. Use the serial number found on the nameplate to identify the attachment.

Always refer to the group, serial, or part number when ordering service parts.

Modifications of attachments and side-shift carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". Contact your dealer for Hyster lift trucks for information on these assemblies.

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PUBLICATIONS

Every new lift truck is provided with an OPERATING MANUAL. This manual has information that the operator must know for inspection and operation of the lift truck.

SERVICE MAINTENANCE MANUALS, which provide service and overhaul procedures, and PARTS MANUALS with complete replacement part identification, are available at a nominal fee from your Hyster dealer to assist users in effectively maintaining Hyster lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

PUBLICATION	HYSTER PART NUMBER
Operating Manual	4031564
Service Manual (Complete)	4031589
Parts Manual	4031581

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NOTES

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1 FRAME

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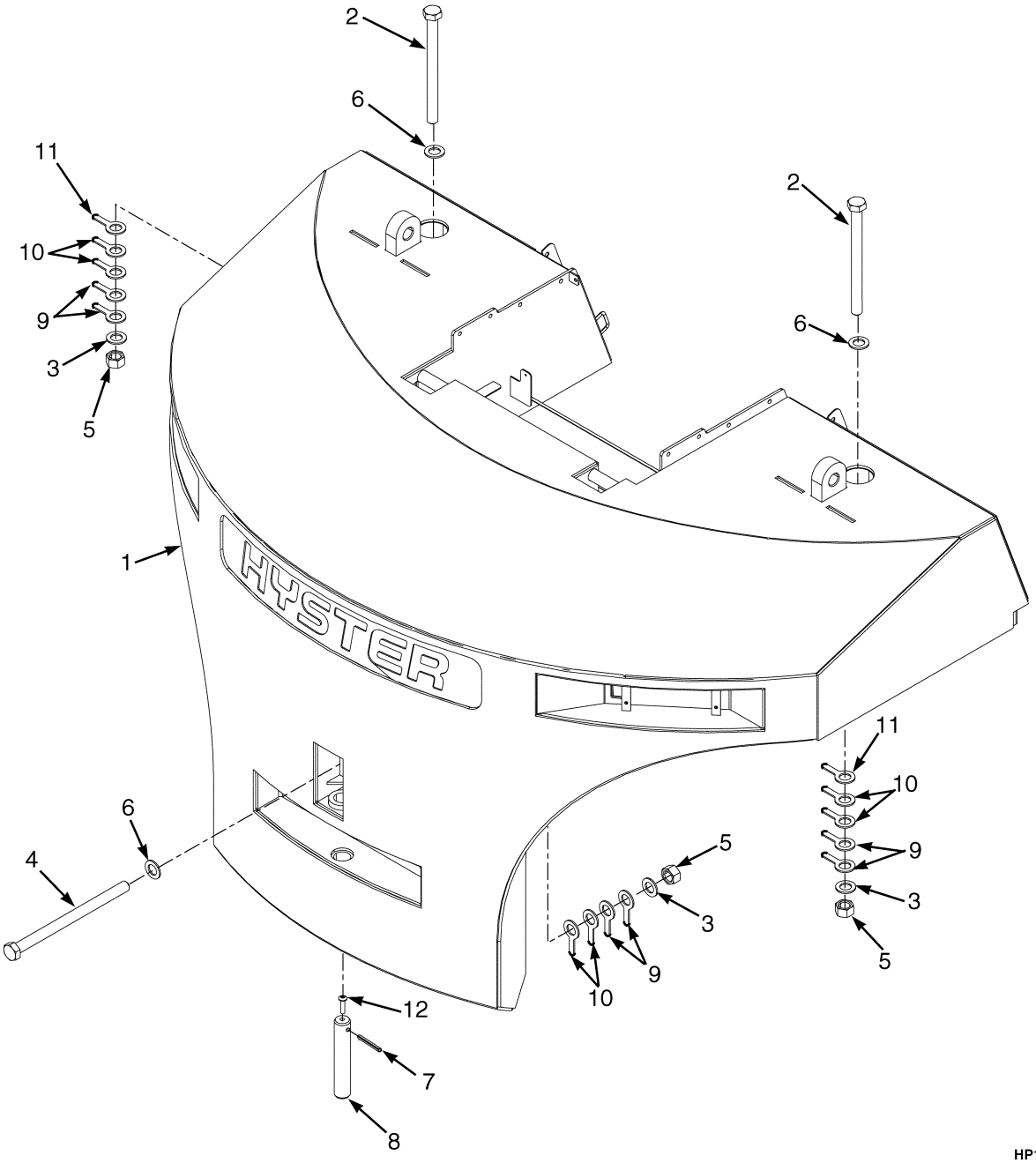
COUNTERWEIGHTS (FIGURE 1-1)



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COUNTERWEIGHTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1559668	Counterweight (H400HD)	1
1	1559669	Counterweight (H400HDS)	1
1	1559670	Counterweight (H450HD, H450HDS)	1
2	2079027	Capscrew	2
3	1708623	Washer	4
4	885983	Capscrew	2
5	292661	Nut	4
6	1708622	Washer	4
7	1708043	Pin	1
8	1709370	Tow Pin	1
9	1668138	Shim (1 mm)	4
10	1668140	Shim (2 mm)	4
11	1708625	Shim (4 mm) (4 mm)	2
12	302098	Setscrew	1

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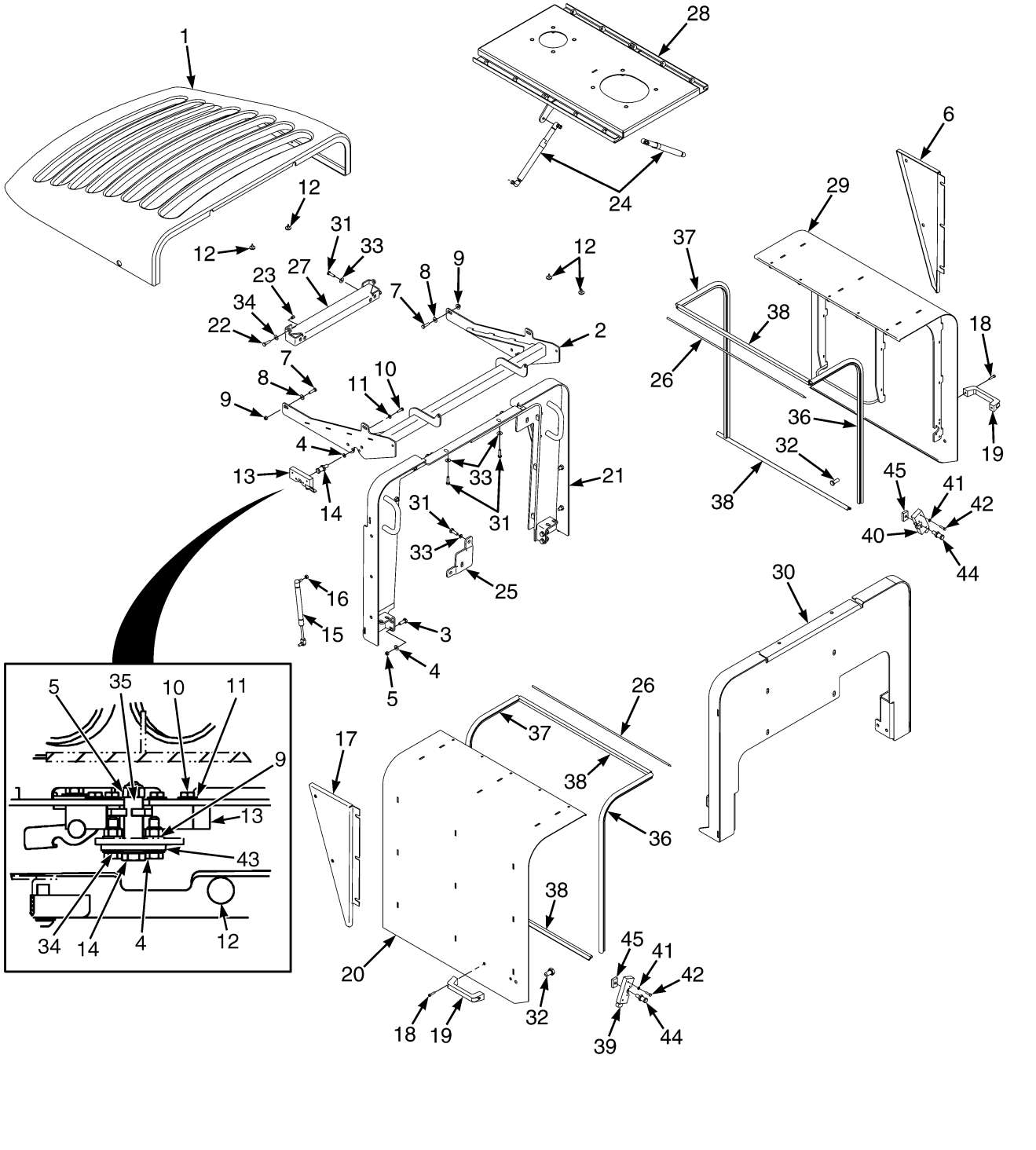
HOODS AND COVERS (FIGURE 1-2)



HP121087

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HOODS AND COVERS

KEY:
A: H400HDS, H450HDS
B: H400HD, H450HD

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1612993	Cowl	1	..
1	1612995	Cowl	..	1
2	4016209	Tilt Frame	1	..
2	4016210	Tilt Frame	..	1
3	1597444	Capscrew	10	10
4	1581557	Washer	16	16
5	302401	Locknut	13	13
6	1592111	Cover (LH)	1	..
6	1592112	Cover (LH)	..	1
7	176640	Bolt	6	6
8	320158	Washer	4	4
9	302400	Nut	2	2
10	18465	Capscrew	4	4
11	15127	Washer	4	4
12	1450759	Button	4	4
13	816107	Latch	1	1
14	292519	Capscrew	1	1
15	1450762	Gas Spring	1	1
16	239503	Nut	6	6
17	1592115	Cover (RH)	1	..
17	1592116	Cover (RH)	..	1
18	293796	Capscrew	4	4
19	362030	Handle	2	2
20	1709738	Door	1	1
21	1611182	Support (Radiator) (Tier III Engine)	1	1
21	4023655	Radiator Support (Tier IV Interim Engine)	1	1
22	296168	Capscrew	2	2
23	1611354	Bushing	2	2
24	1698495	Gas Spring	2	2
25	1637738	Plate	1	1
26	1610633	Rod	2	2
27	1608713	Hinge	1	1
28	1592089	Hood (Tier III Engine) (Shown)	1	1
28	4011912	Hood (Spine Wldmnt) (Tier IV Interim Engine)	1	1
29	1709737	Door (Tier III Engine)	1	1
29	4013880	Door (Tier IV Interim Engine)	1	1
30	1709739	Hood Support (Tier III Engine) (Shown)	1	1
30	4018599	Hood Support (Tier IV Interim Engine)	1	1
31	136985	Capscrew	10	10
32	1637098	Button (Unlock)	2	2
33	320159	Washer	26	26
34	320157	Washer	8	8
35	1669681	Bushing	1	1
36	1592107	Trim Seal	2	2
37	1592108	Trim Seal	2	2
38	1592109	Trim Seal	4	4

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HOODS AND COVERS

KEY:
A: H400HDS, H450HDS
B: H400HD, H450HD

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
39	1634171	Latch (LH)	1	1
40	1634172	Latch (RH)	1	1
41	320156	Washer	8	8
42	287816	Capscrew	8	8
43	1709826	Plate	1	1
44	1504955	Bolt	2	2
45	1504953	Block (Tapped)	2	2
	a 1671144	Bracket	4	4

FOOTNOTES:

a Not Illustrated

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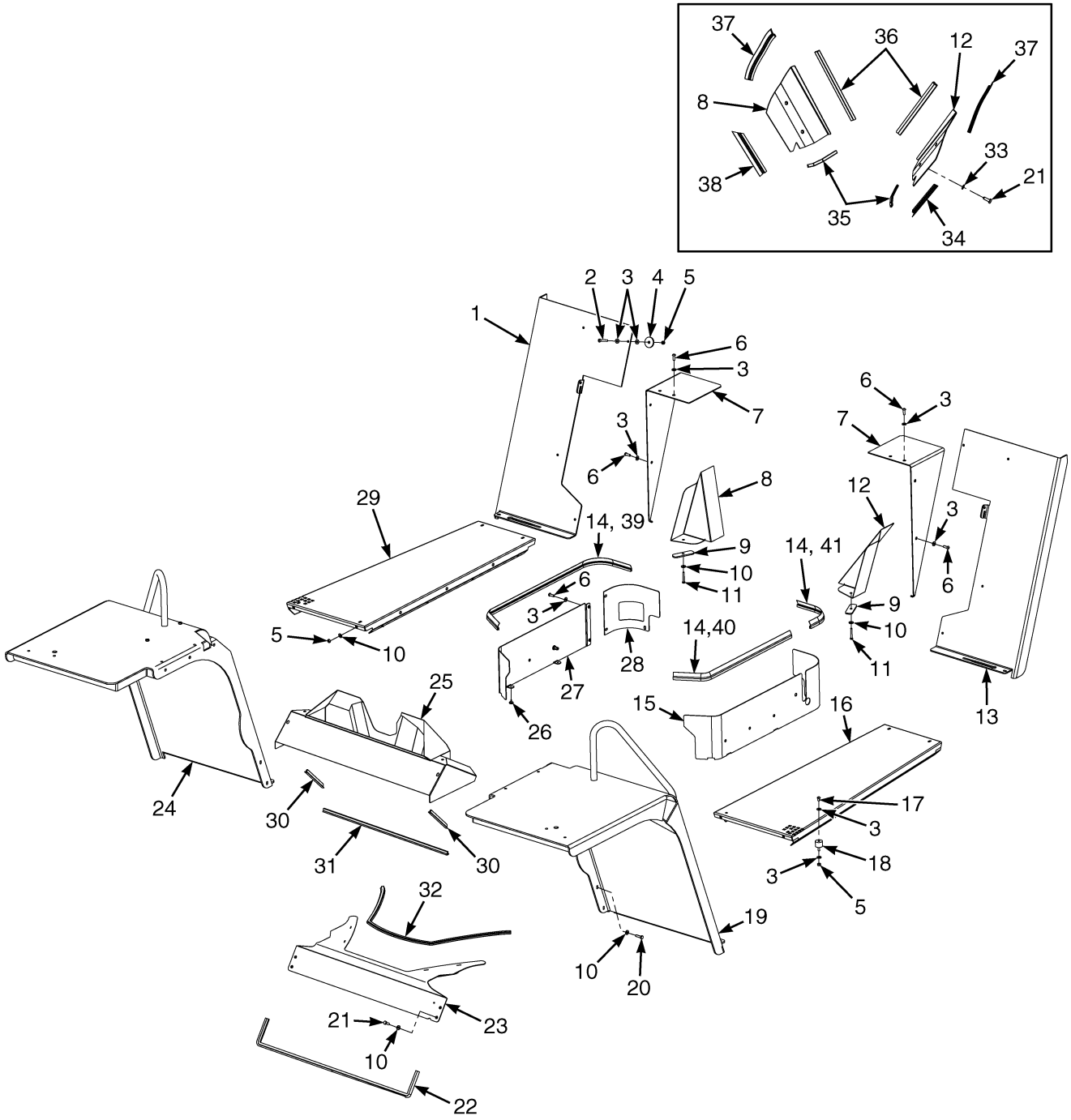
FLOORPLATES AND COVERS (FIGURE 1-3)



HP121319

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FLOORPLATES AND COVERS

KEY:
A: H400-450HDS, Tier III Engine
B: H400-450HD, Tier III Engine
C: H400-450HDS, Tier IV Interim Engine
D: H400-450HD, Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B	QTY C	QTY D
1	1633166	Fender (Rear RH)	1	1	1	1
2	1597447	Capscrew	8	8	8	8
3	1581558	Washer	36	36	62	62
4	300939	Washer	4	4	4	4
5	302401	Locknut	24	24	24	24
6	1597444	Capscrew	22	22	22	22
7	1607307	Extension (LH)	1	..	1	..
7	1548079	Extension (LH)	..	1	..	1
7	1607310	Extension (RH)	1	..	1	..
7	1548082	Extension (RH)	..	1	..	1
8	1629356	Plate (Divider) (RH)	1	1	..	1
8	4021506	Plate (Separator) (RH)	..	..	1	..
9	1628753	Plate	2	2	2	2
10	320160	Washer	20	20	20	18
11	292509	Capscrew	2	2	2	2
12	1629355	Plate (Separator) (LH)	1	1	..	1
12	4021224	Plate (Separator) (LH)	..	..	1	..
13	1633165	Fender (Rear LH)	1	1	1	1
14	1491360	Seal-Bulk	AR	AR	..	..
15	1607314	Panel (LH)	1	1	1	1
16	1548063	Running Board (LH)	1	..	1	..
16	1548064	Running Board (LH)	..	1	..	1
17	1597442	Capscrew	14	14	14	14
18	1597192	Isolator	14	14	14	14
19	1633157	Fender (Front LH)	1	1	1	1
20	292515	Capscrew	4	4	4	4
21	136985	Capscrew	10	10	14	10
22	1613974	Trim Seal (Bulk)	1	1	1	1
23	1656171	Plate	1	1	1	1
24	1633158	Fender (Front RH)	1	1	1	1
25	1655272	Plate (Air Flow, Hydraulic Oil Cooler)	1	1	1	1
26	1450759	Button	4	4	4	4
27	1607315	Panel (RH)	1	1	1	1
28	1612988	Panel (RH)	1	1	1	1
29	1548066	Running Board (RH)	1	..	1	..
29	1548067	Running Board (RH)	..	1	..	1
30	1656958	Trim Seal	2	2	2	2
31	1655276	Trim Seal	1	1	1	1
32	1657033	Trim Seal	1	1	1	1
33	320159	Washer	..	..	4	..
34	4021226	Trim Seal	..	..	1	..
35	4021456	Trim Seal	..	..	2	..
36	4021455	Trim Seal	..	..	2	..
37	4021227	Trim Seal	..	..	2	..

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FLOORPLATES AND COVERS

KEY:
A: H400-450HDS, Tier III Engine
B: H400-450HD, Tier III Engine
C: H400-450HDS, Tier IV Interim Engine
D: H400-450HD, Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B	QTY C	QTY D
38	4021225	Trim Seal	..	..	1	..
39	4023851	Trim Seal	..	..	1	1
40	4023849	Trim Seal	..	..	1	1
41	4023850	Trim Seal	..	..	1	1

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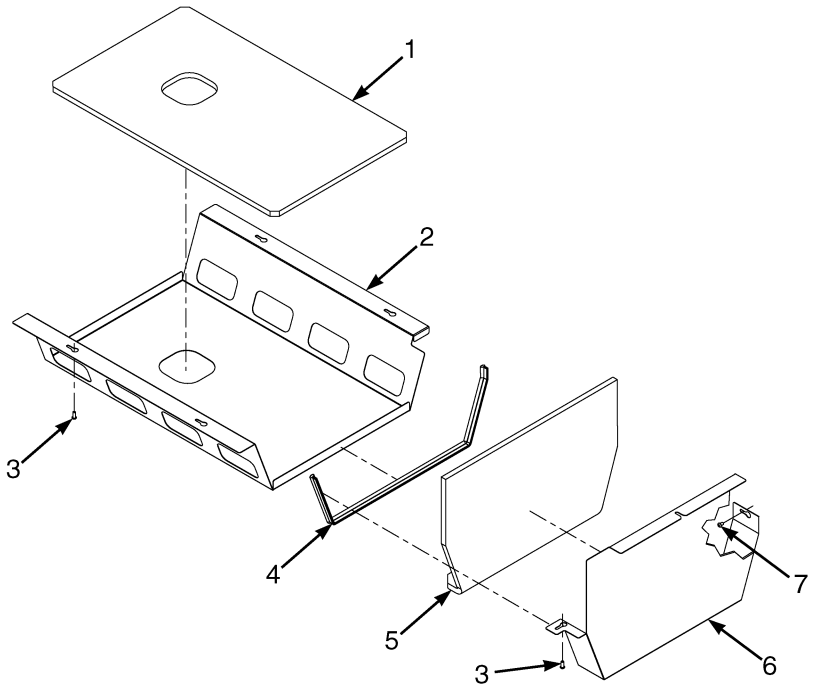
BELLY PAN (FIGURE 1-4)
H400HDS, H450HDS



HP121304

ITEM	PART NO.	DESCRIPTION	QTY
1	1654926	Liner	1
2	1654924	Cover (Bottom)	1
3	1597448	Capscrew	6
4	1654928	Trim Seal	1
5	1654927	Liner	1
6	1655039	Cover (Rear)	1
7	296164	Capscrew	1

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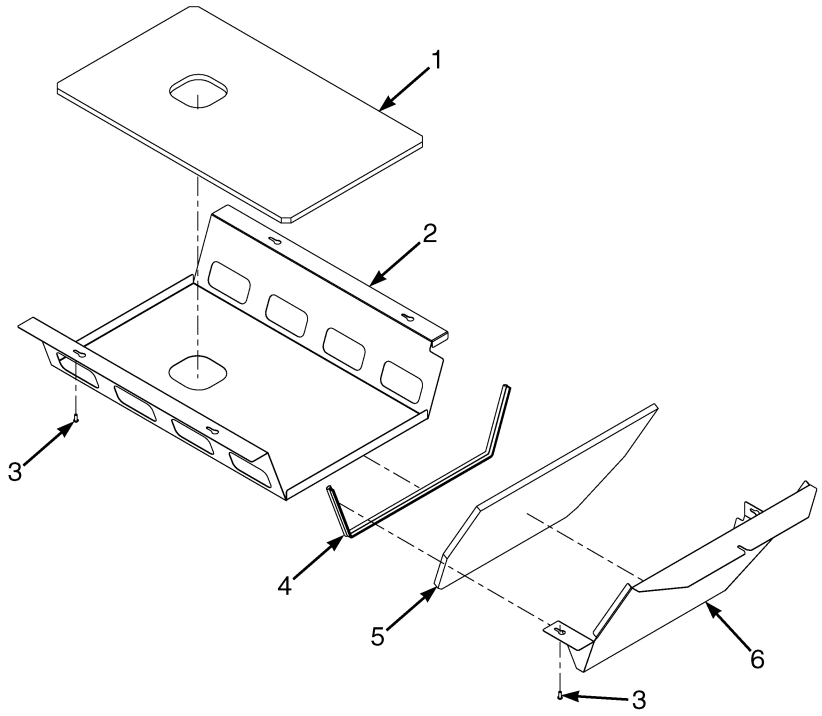
BELLY PAN (FIGURE 1-5)
H400HD, H450HD



HP121303

ITEM	PART NO.	DESCRIPTION	QTY
1	1654926	Liner	1
2	1654924	Cover (Bottom)	1
3	1597448	Capscrew	7
4	1654928	Trim Seal	1
5	1654927	Liner	1
6	1654923	Cover (Rear)	1

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NOTES

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CAB (FIGURE 1-6)
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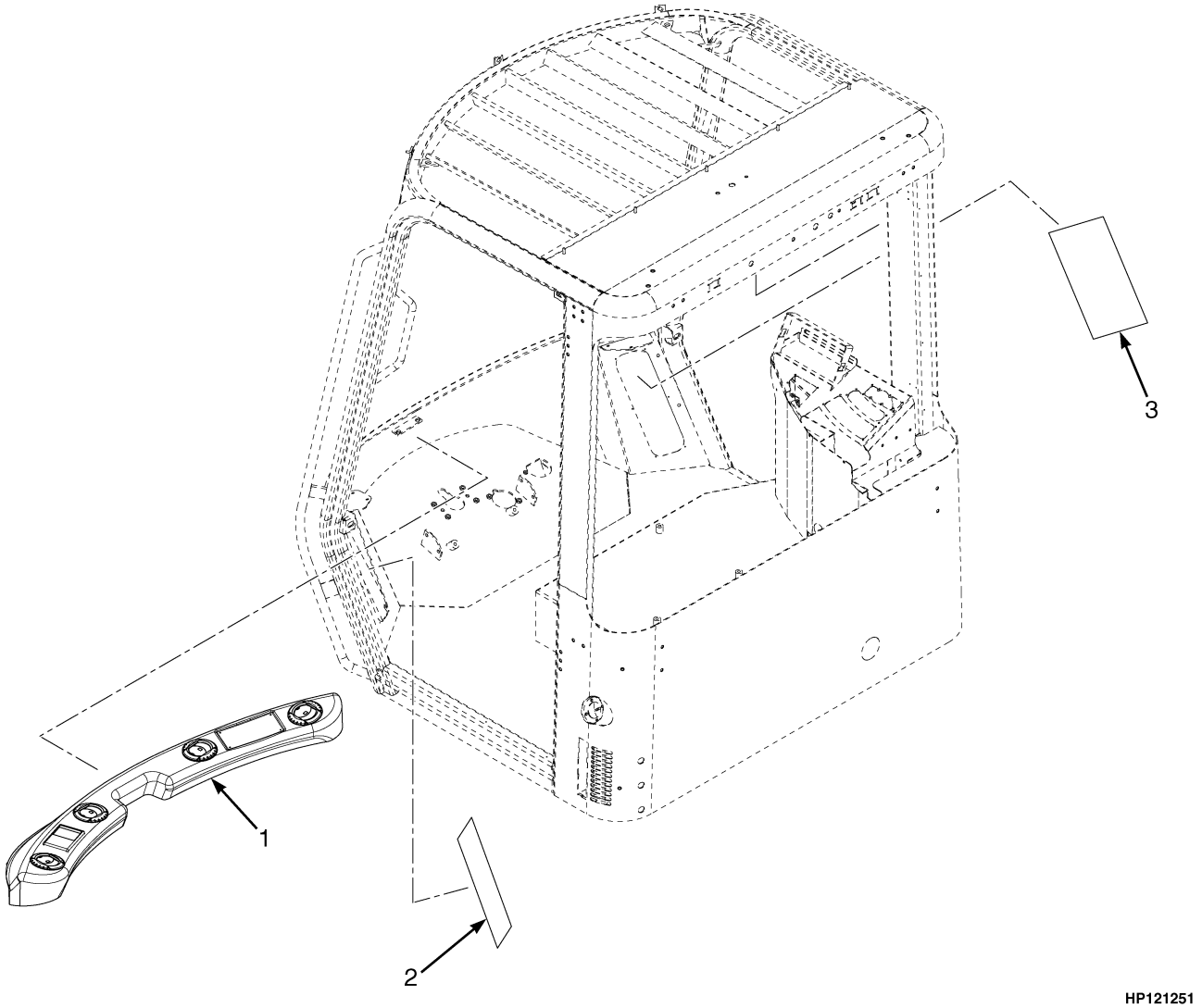

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CAB

CLOSED – PAGE 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1492200	Cover (Dash and Cap Assembly) (☞Figure 1-25).....	1
2	1493372	Foam (LH)	1
3	1493373	Foam (RH)	1

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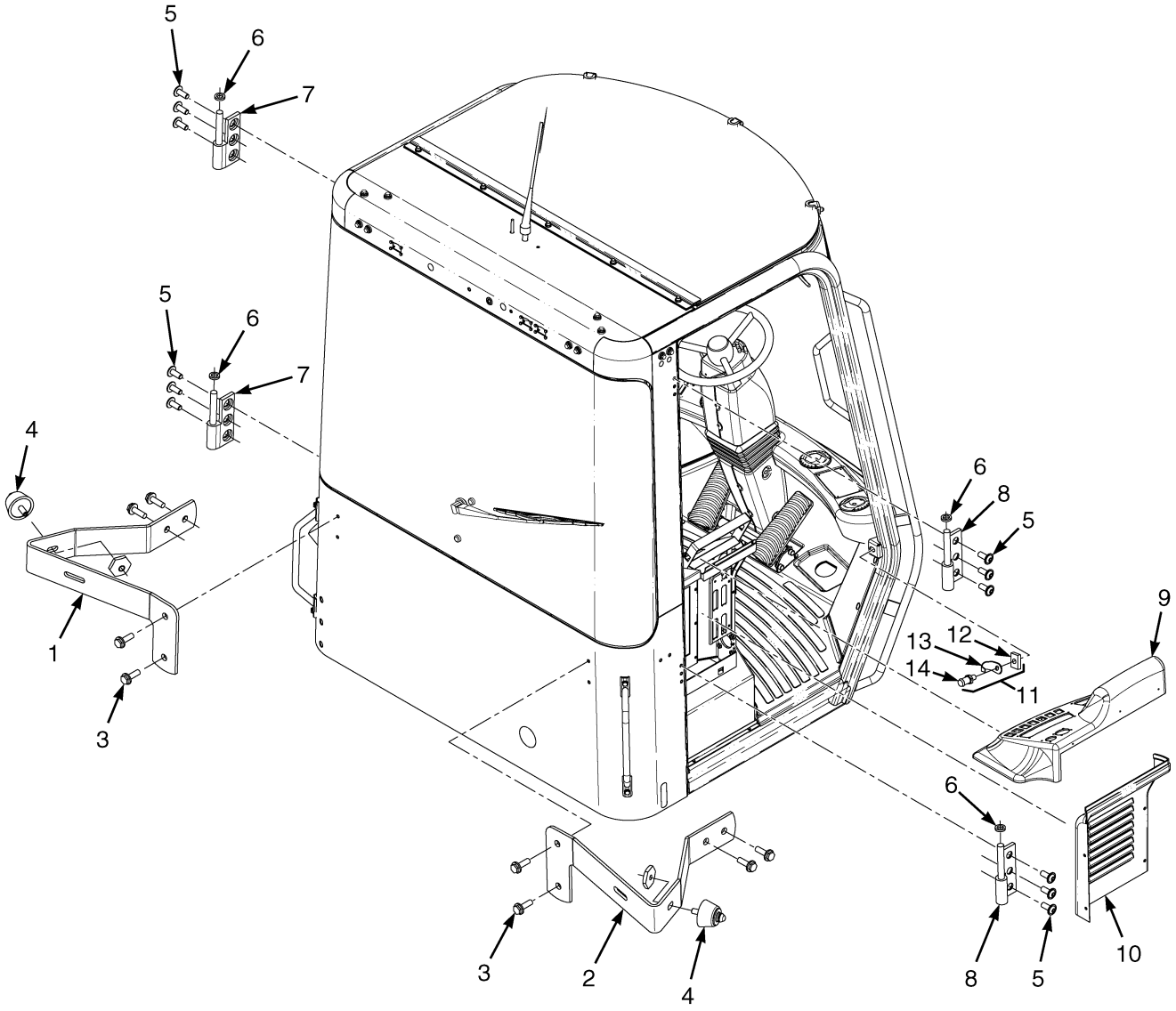
CAB (FIGURE 1-7)
CLOSED — PAGE 2 OF 2



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CAB
CLOSED – PAGE 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1651999	Bracket (LH)	1
2	1651998	Bracket (RH)	1
3	1566044	Bolt	8
4	1493313	Bumper	2
5	1493308	Bolt	12
6	1468312	Washer	4
7	1393473	Hinge (LH)	2
8	1393474	Hinge (RH)	2
9	1566770	Console (RH Top)	1
10	1491028	Console Cover (RH External)	1
11	1493318	Striker Bolt Assembly	2
12	1504953	Block (Tapped)	1
13	1504954	Guard	1
14	1504955	Bolt	1

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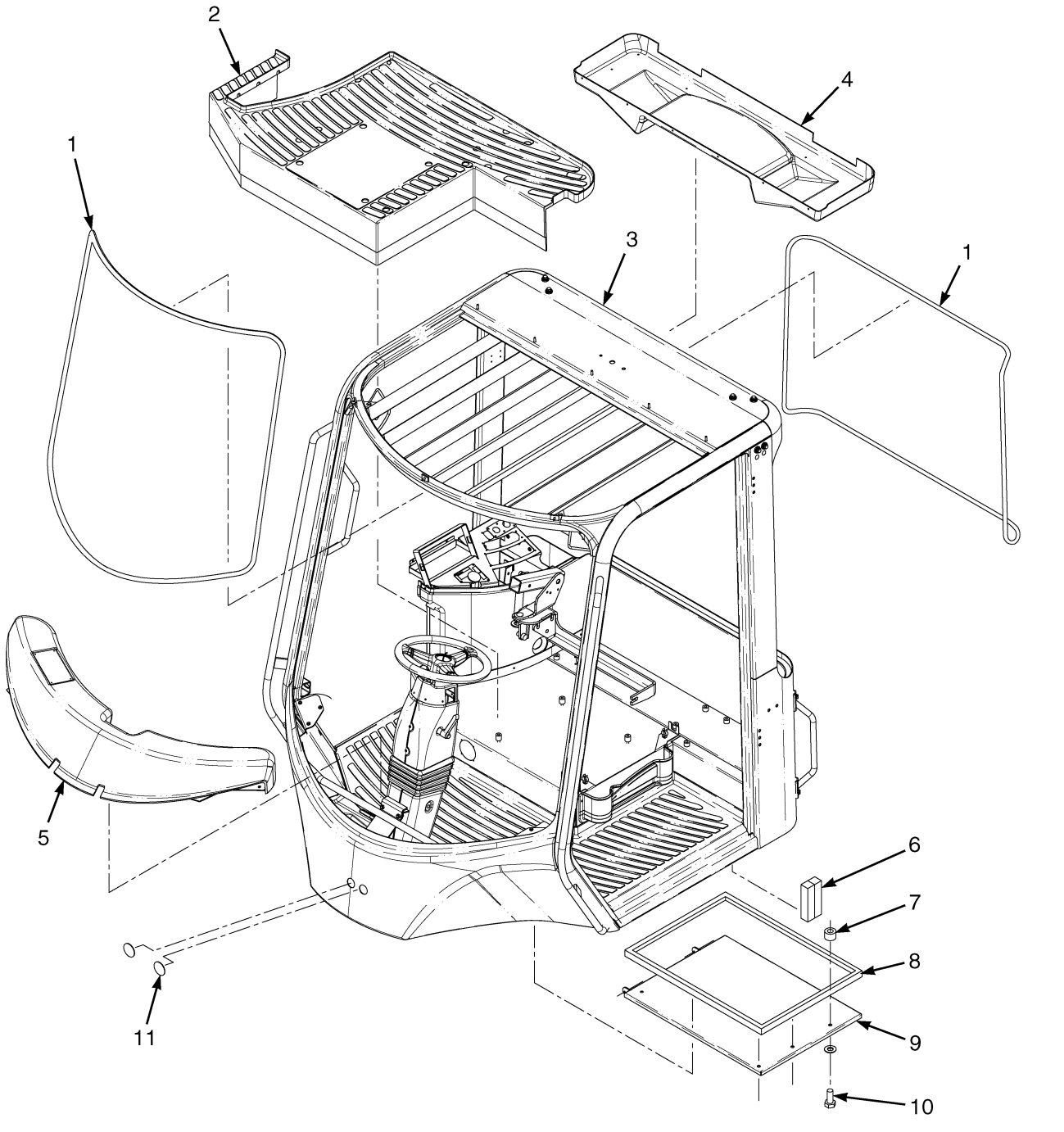
CAB (FIGURE 1-8)
OPEN — PAGE 1 OF 2



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CAB
OPEN – PAGE 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1498336	Edge Protector	AR
2	1493282	Floormat (Seat)	1
3	1583941	Wire Harness (Cab)	1
4	1508012	Headliner	1
5	1498360	Dash Panel Assembly	1
5	1468321	Washer (Plastic)	6
5	292501	Capscrew	6
5	1476584	Cover (Capscrew Head)	6
6	4000919	Foam	AR
7	1493491	Bushing	3
8	1508229	Seal	AR
9	1558017	Cover (Heater Box)	1
10	136985	Capscrew	3
11	1558016	Grommet	2

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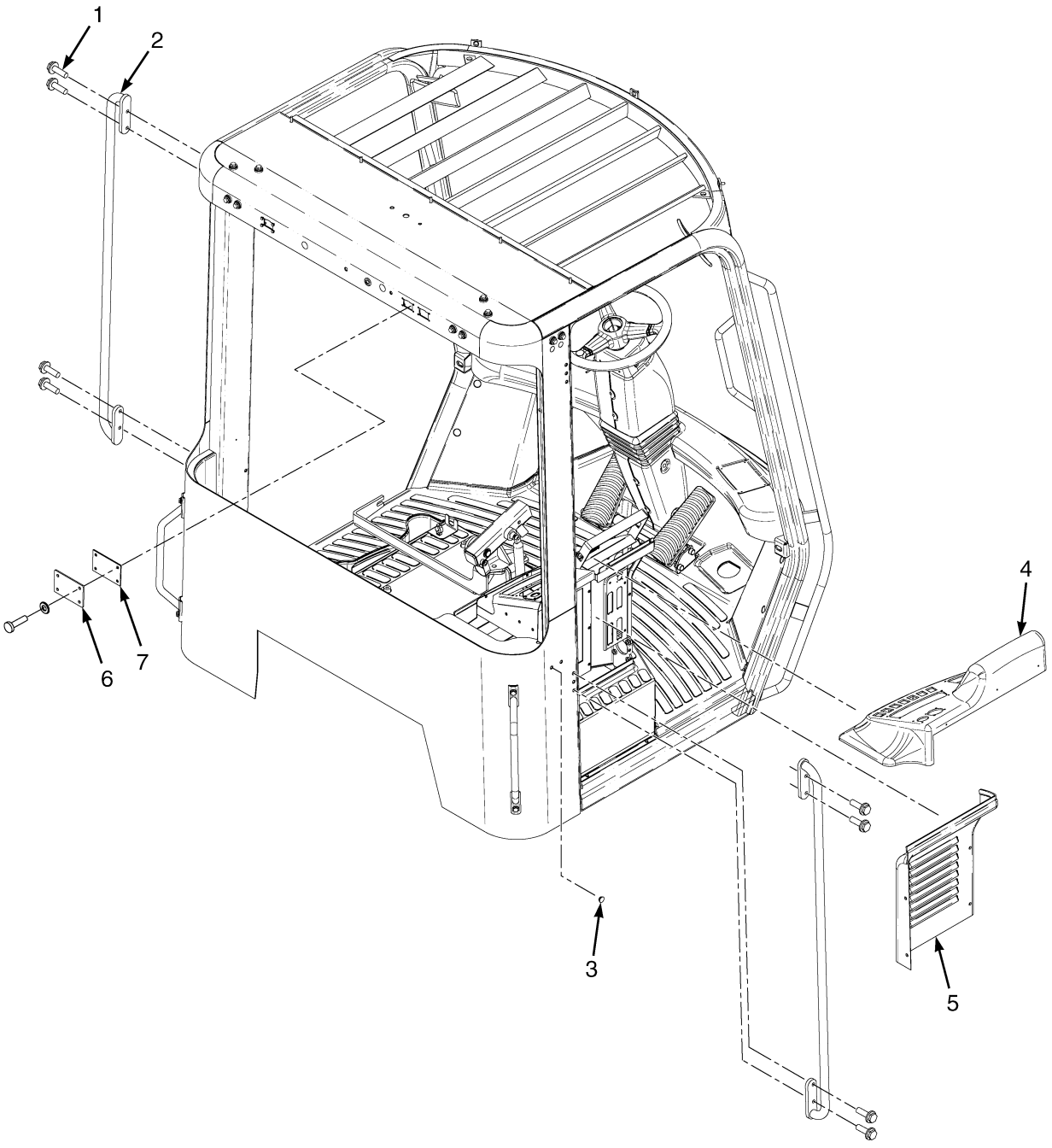
CAB (FIGURE 1-9)
OPEN — PAGE 2 OF 2



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CAB
OPEN – PAGE 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1566044	Bolt	8
2	1558015	Rail	2
3	4000817	Plug	4
4	1652020	Cover , Console	1
5	1498375	Cover , Console (RH External)	1
6	1635007	Plate	1
7	1635008	Seal	1

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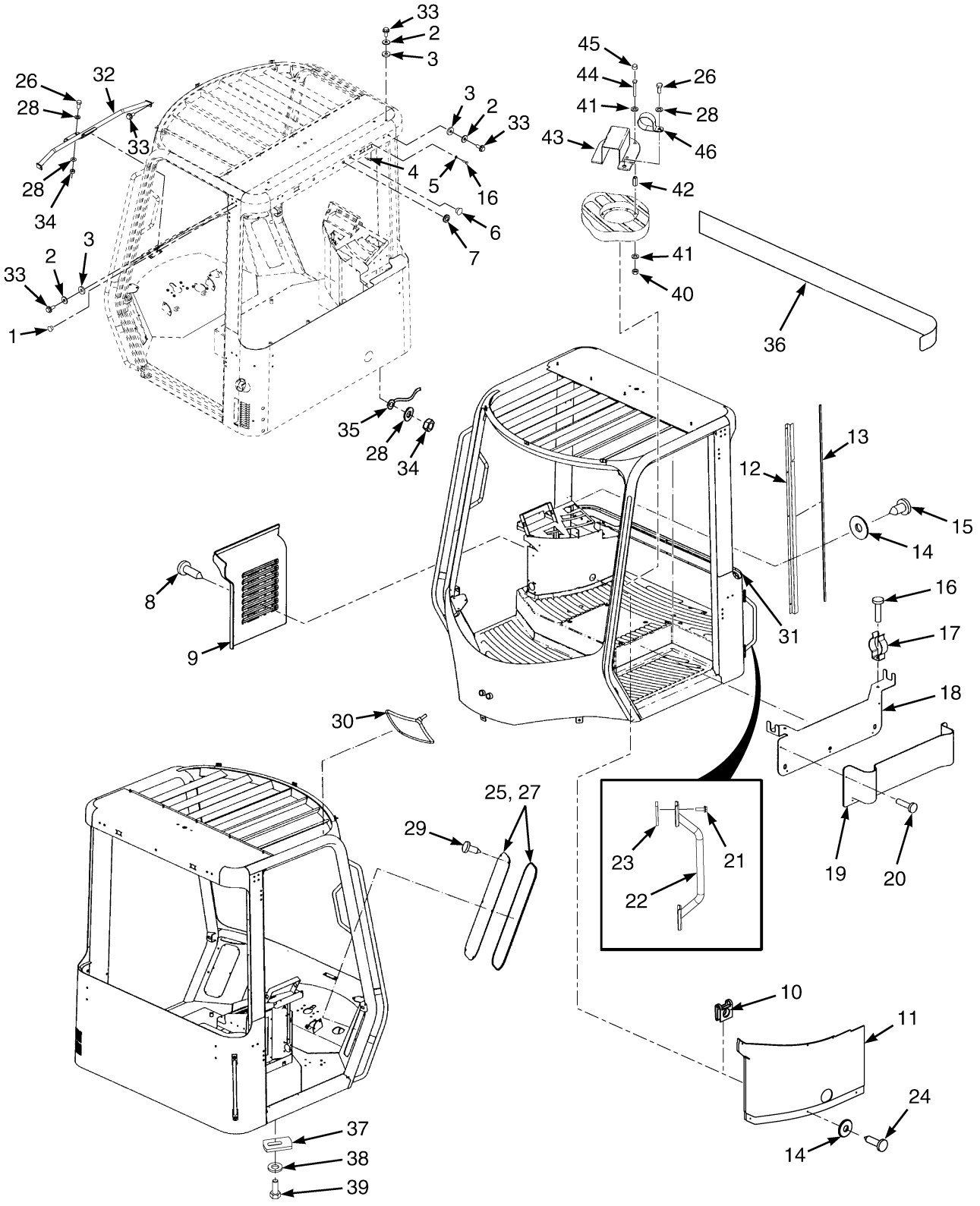
CAB ATTACHING PARTS (FIGURE 1-10)



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CAB ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	4000817	Plug	4
2	1504941	Washer	12
3	1504942	Rubber Seal	12
4	292667	Nut	12
5	296415	Washer	12
6	1635005	Plug	2
7	1504406	Grommet	1
8	1558042	Screw	4
9	1491028	Console Cover (RH External) (Closed Cab)	1
9	1498375	Cover , Console (RH External) (Open Cab)	1
10	1492139	Nut	1
11	1498376	Cover (Control Column)	1
12	1492166	Cover	AR
13	1492167	Trim-Bulk	AR
14	4028463	Washer	11
15	4028462	Screw	11
16	1498357	Screw	14
17	1498356	Clip	2
18	1498355	Bracket (Cup And Clip Board Holder)	2
19	1492133	Holder (Cup And Clip Board)	1
20	1498354	Rivet	5
21	1566044	Bolt	4
22	1498334	Handle Assembly, rear	2
22	136681	Capscrew	4
22	320158	Washer	4
22	1476584	Cover (Capscrew Head)	4
23	1498335	Pad	4
24	4028468	Screw	6
25	1498362	Seal	AR
26	136681	Capscrew	3
27	1492197	Plate (Air Duct Cover)	2
28	320158	Washer	5
29	1468307	Screw	12
30	1493278	Mirror (Interior)	2
31	1498336	Edge Protector	AR
32	1492237	Support (Column)	1
33	1566041	Screw	2
34	239503	Nut	2
35	1492214	Wire (Ground)	1
36	~~1558031~~		
	4178081	Foam	1
37	4010862	Bracket	1
38	320160	Washer	1
39	1571632	Screw	1
40	316834	Nut	6
41	320156	Washer	8
42	4001208	Bushing	4
43	1571804	Bracket	1
44	1571802	Screw	4
45	1493397	Cover (Capscrew Head)	4
46	1493498	Clamp	1

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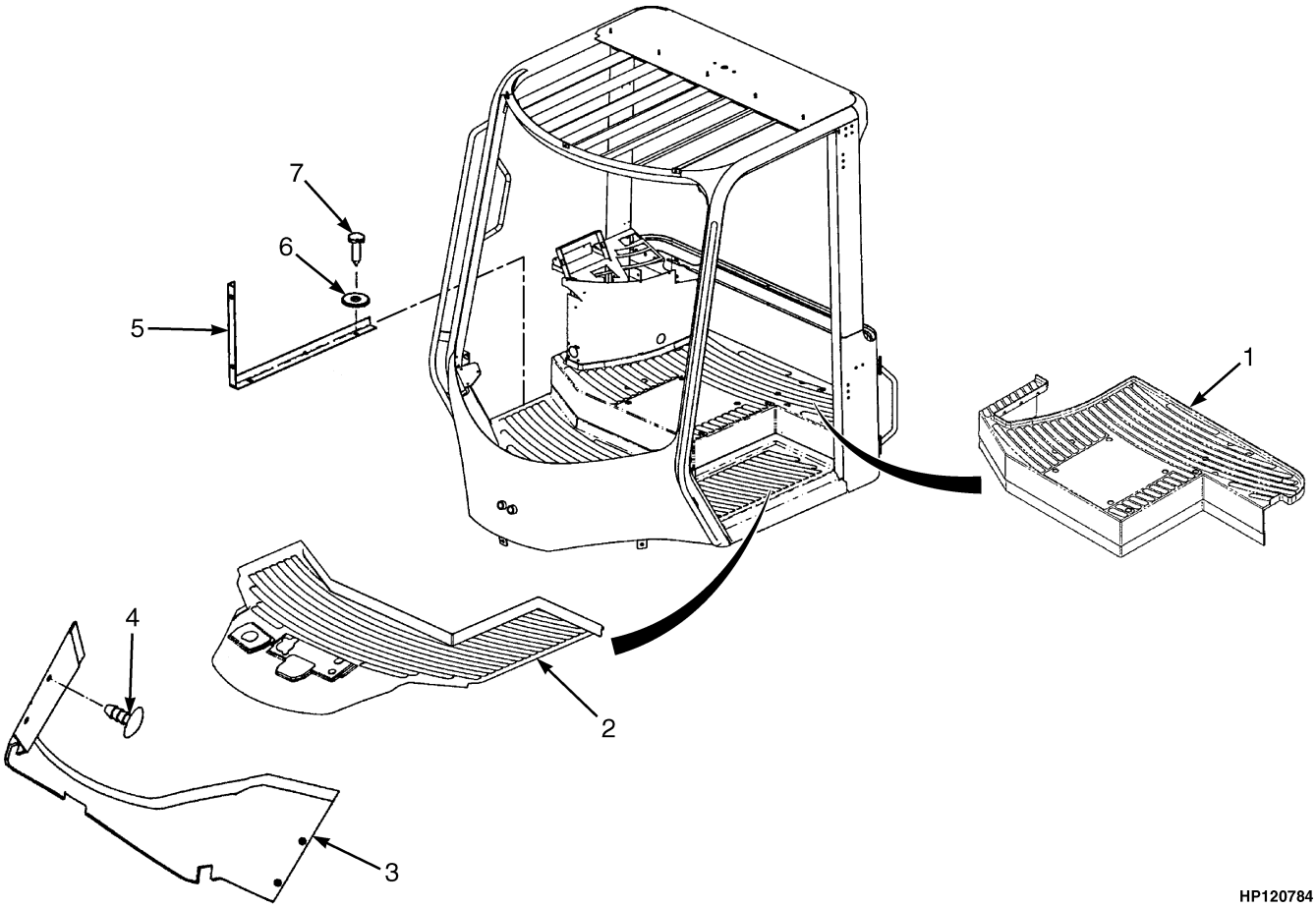
CAB FLOORMATS (FIGURE 1-11)



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ITEM	PART NO.	DESCRIPTION	QTY
1	1493282	Floormat (Seat)	1
2	1493281	Floormat (Main)	1
3	1493283	Floormat (Front Cowl)	1
4	4009590	Rivet	4
5	1498365	Strip	1
6	4028463	Washer	4
7	4028462	Screw	4

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NOTES

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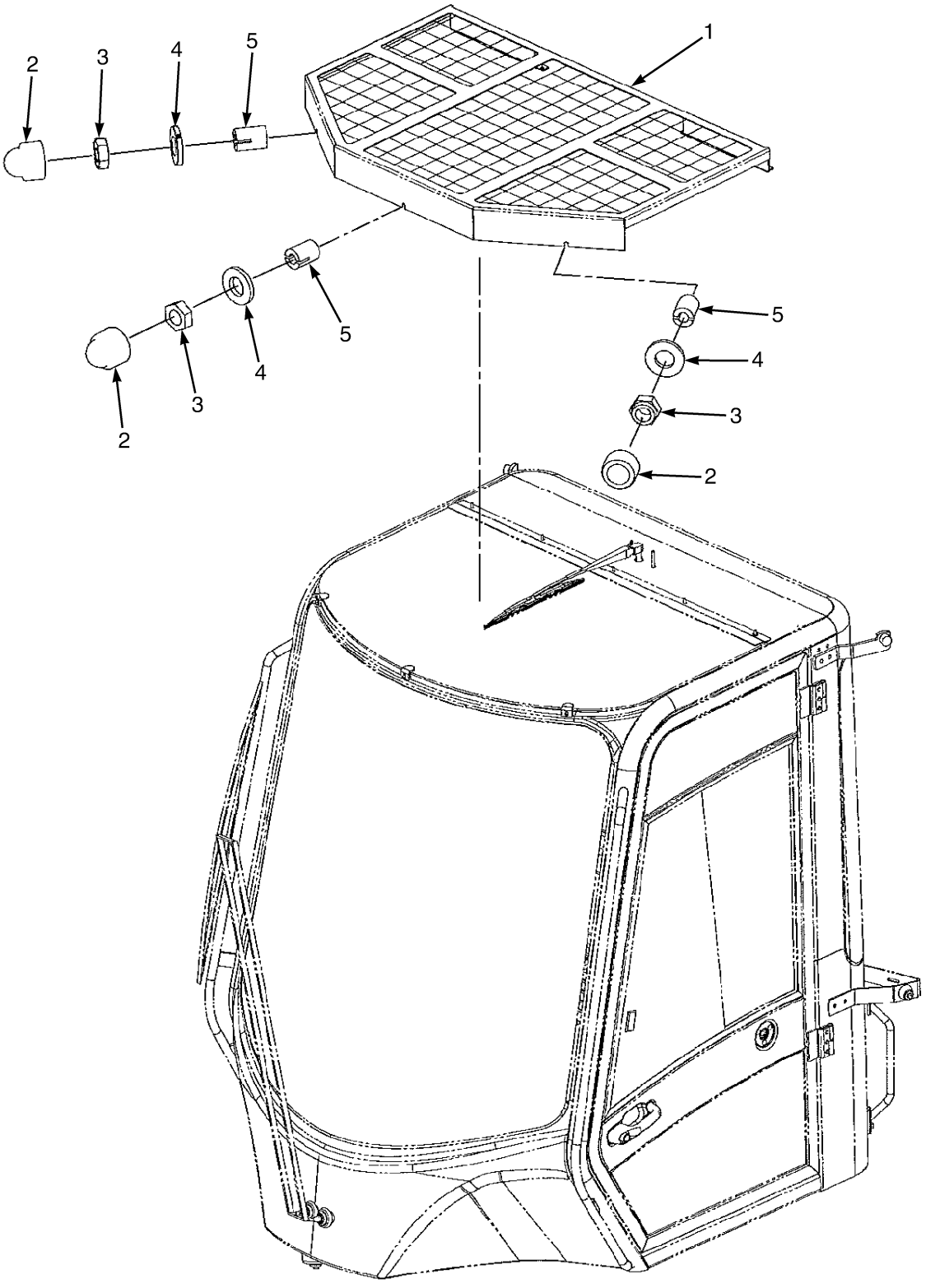
OVERHEAD GUARD (FIGURE 1-12)

WIRE MESH



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OVERHEAD GUARD
WIRE MESH

ITEM	PART NO.	DESCRIPTION	QTY
1	4006379	Overhead Guard	1
2	1493312	Cap (Capscrew Head)	3
3	1593336	Nut	3
4	1498338	Washer	3
5	4006380	Insert (Threaded)	3

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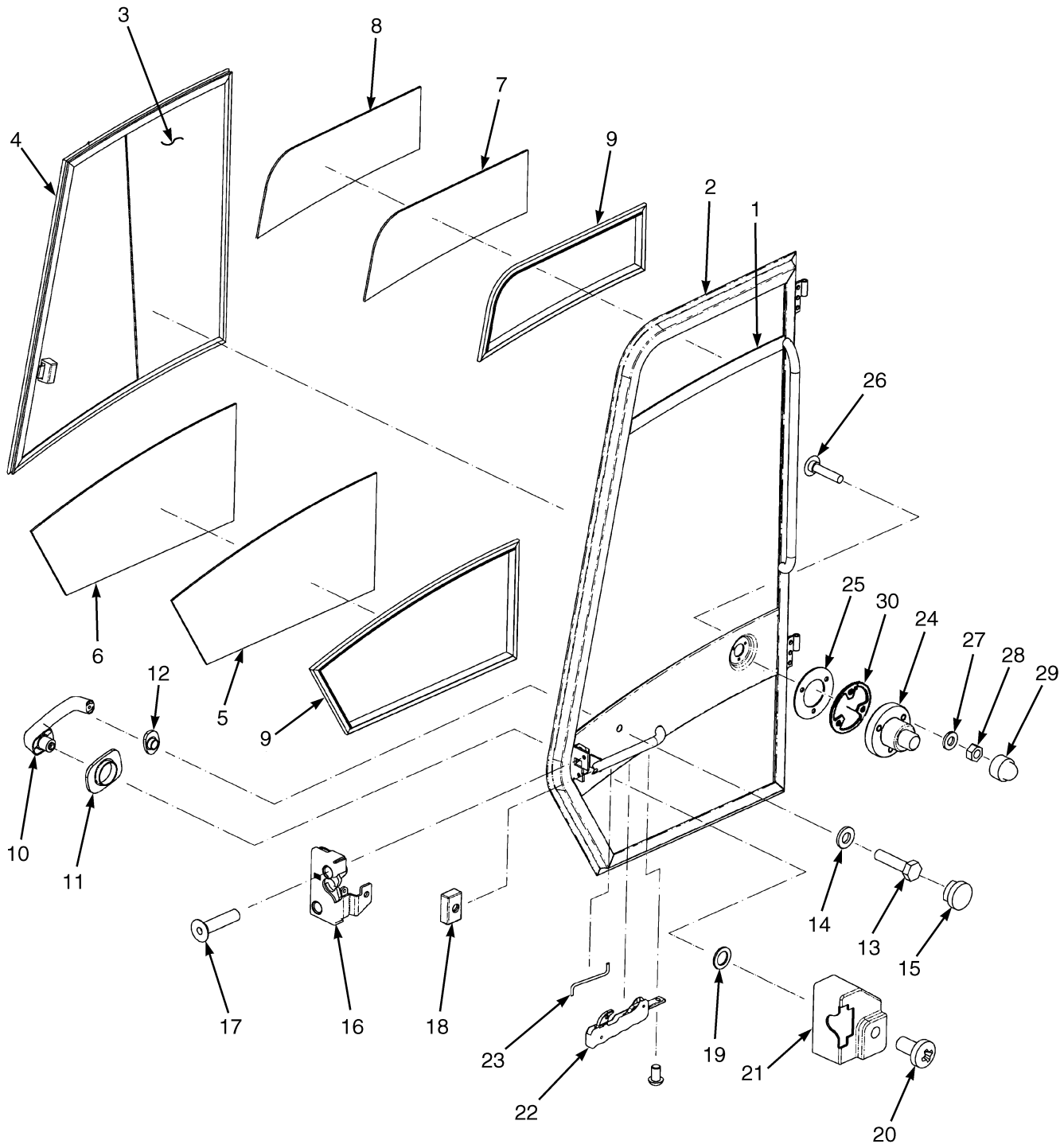
CAB RIGHT HAND DOOR (FIGURE 1-13)



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CAB RIGHT HAND DOOR

ITEM	PART NO.	DESCRIPTION	QTY
	~~1553404~~		
	1667218	Kit-Door RH (Cab)	1
1	1558292	Door	1
2	1515337	Seal (Bulk)	5
3	~~1558293~~		
	1644795	Window (Main) (☞Figure 1-22)	1
4	1558294	Seal Bulk	AR
5	1558295	Window (Lower)	1
6	1558296	Frame (Lower RH)	1
7	1558297	Sliding Window (Upper)	1
8	1558298	Frame (Upper RH)	1
9	1558299	Seal (Bulk)	4
10	1495371	Handle (Push Button)	1
11	1495372	Seal	1
12	1495431	Seal	1
13	287816	Capscrew	1
14	1468321	Washer (Plastic)	1
15	1558300	Cap	1
16	1558301	Latch	1
17	296229	Capscrew	2
18	1558302	Plate (Door Handle)	1
19	1558303	Washer	1
20	1493308	Bolt	1
21	1495435	Cover	1
22	1558305	Lock (Door Handle)	1
23	1558306	Piston Rod (Connector)	1
24	1559691	Latch (Door Holder)	1
25	1495454	Seal	1
26	1558307	Screw	3
27	1506738	Washer	3
28	316834	Nut	3
29	1493397	Cover (Capscrew Head)	3
30	1495456	Washer (Special)	1
	a 1593629	Key (For Cab Door Grip)	1

FOOTNOTES:

a Not Illustrated

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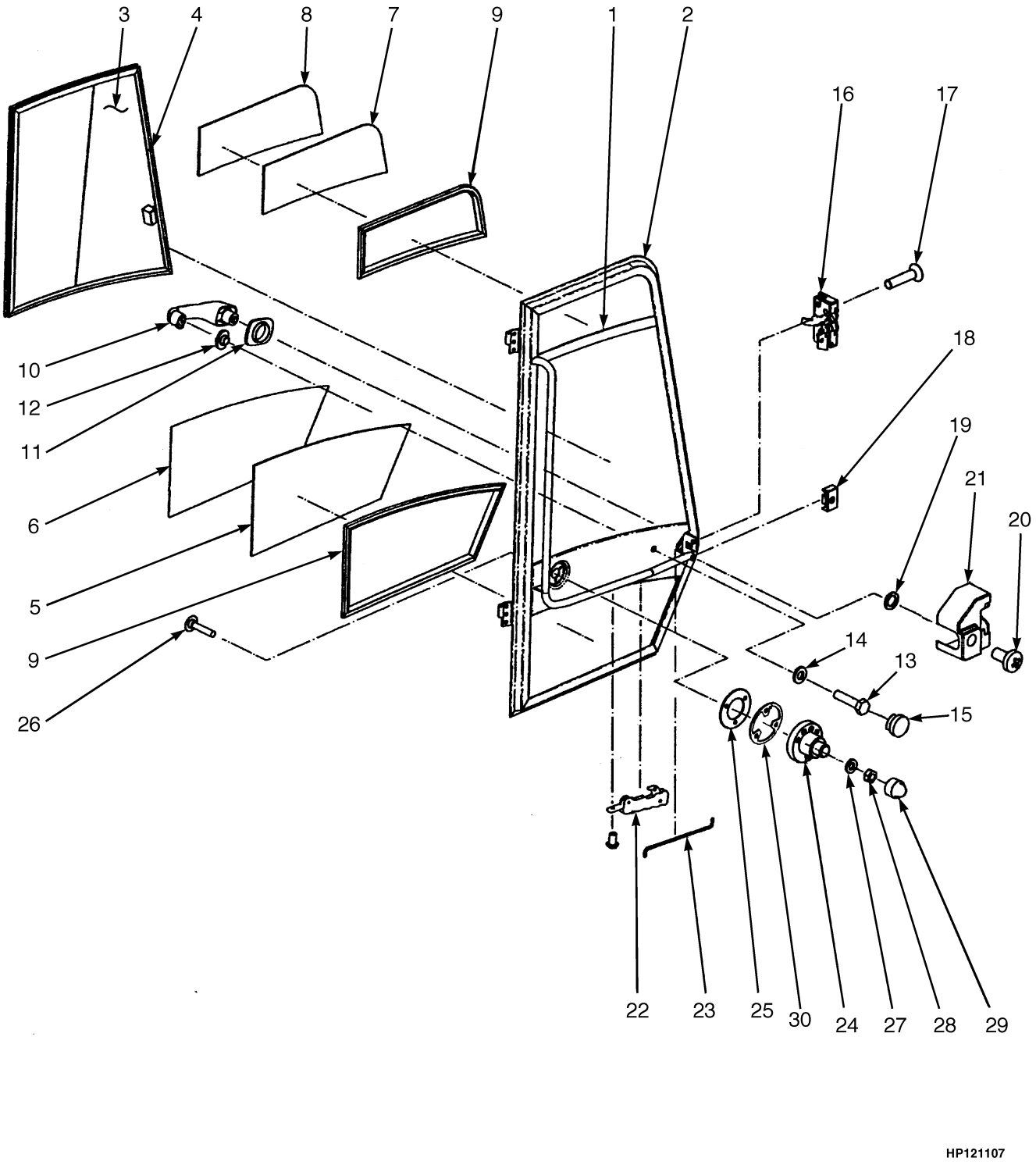
CAB LEFT HAND DOOR (FIGURE 1-14)



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CAB LEFT HAND DOOR

ITEM	PART NO.	DESCRIPTION	QTY
	~~1553405~~		
	1667219	Kit-Door LH (Cab)	1
1	1558440	Door	1
2	1515337	Seal (Bulk)	5
3	~~1558441~~		
	1644794	Window (Main) (☞Figure 1-22)	1
4	1558294	Seal Bulk	AR
5	1558442	Window (Door) (Lower)	1
6	1558443	Seal (Lower LH)	1
7	1558444	Sliding Window (Door) (Upper)	1
8	1558445	Seal (Upper LH)	1
9	1558299	Seal (Bulk)	4
10	1495371	Handle (Push Button)	1
11	1495372	Seal	1
12	1495431	Seal	1
13	287816	Capscrew	1
14	1468321	Washer (Plastic)	1
15	1558300	Cap	1
16	1558446	Latch	1
17	296229	Capscrew	2
18	1558302	Plate	1
19	1558303	Washer	1
20	1493308	Bolt	1
21	1495438	Cover	1
22	1558305	Lock	1
23	1558447	Piston Rod (Connector)	1
24	1559691	Latch (Door Holder)	1
25	1495454	Seal	1
26	1558307	Screw	3
27	1506738	Washer	3
28	316834	Nut	3
29	1493397	Cover (Capscrew Head)	3
30	1495456	Washer (Special)	1
	a 1593629	Key (For Cab Door Grip)	1

FOOTNOTES:

a Not Illustrated

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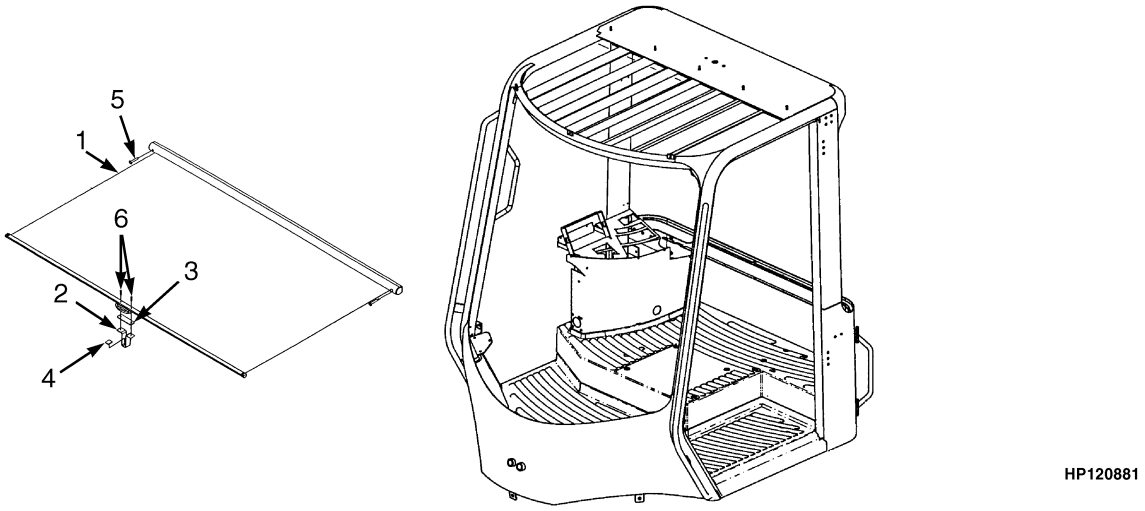
CAB SUNSHADE (FIGURE 1-15)

TOP



ITEM	PART NO.	DESCRIPTION	QTY
1	1506751	Sunshade	1
2	1506750	Clamp	1
3	1506749	Rubber Pad	1
4	1506748	Rubber Pad	1
5	1468318	Screw	2
6	1655365	Screw	2

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NOTES

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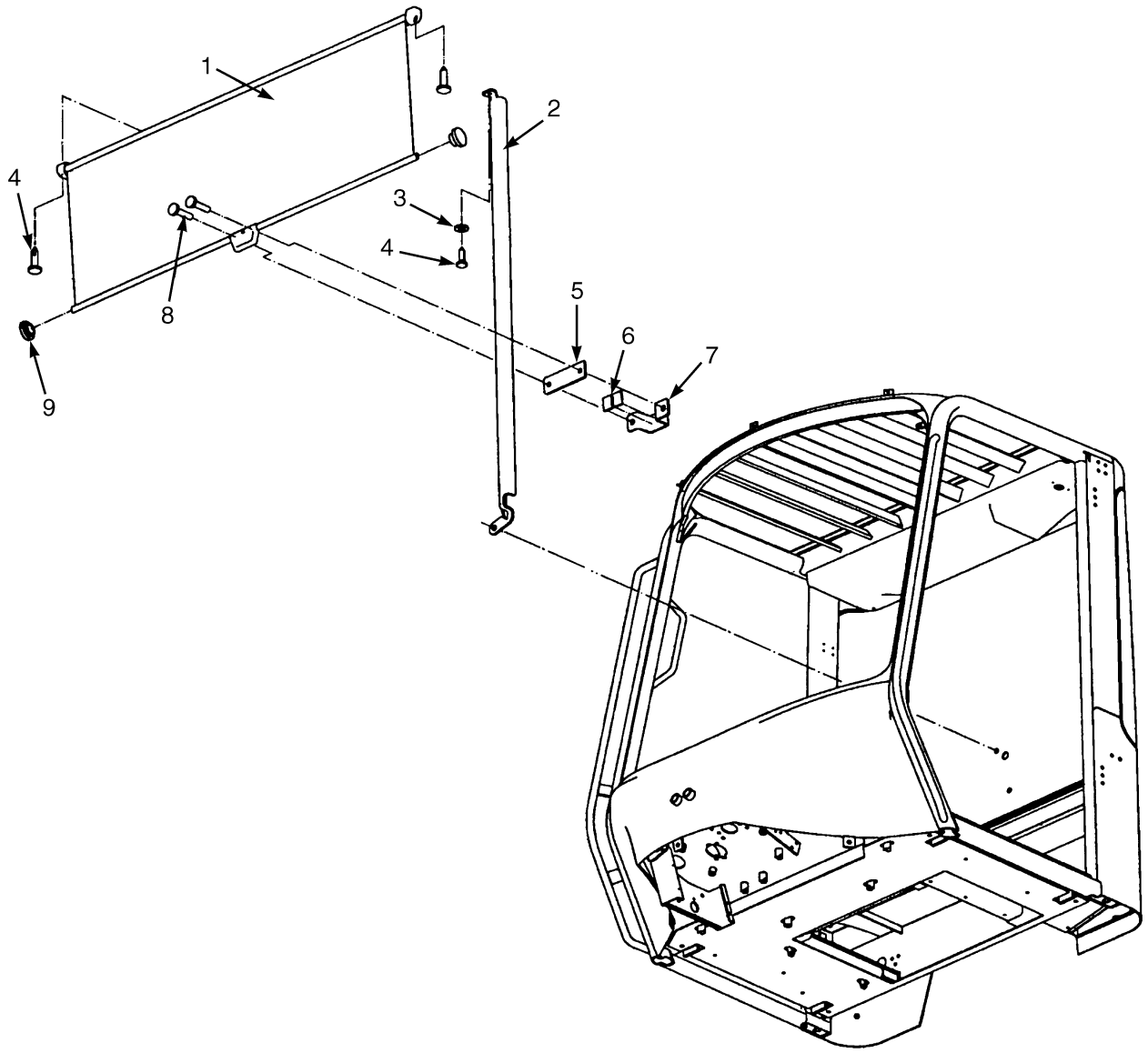
CAB SUNSHADE (FIGURE 1-16)
REAR



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CAB SUNSHADE

REAR

ITEM	PART NO.	DESCRIPTION	QTY
1	1506751	Sunshade	1
2	1644791	Bracket	1
3	296415	Washer	1
4	1468318	Screw	3
5	1506749	Rubber Pad	1
6	1506748	Rubber Pad	2
7	1644792	Bracket	1
8	1655365	Screw	2
9	1644793	Plug	2

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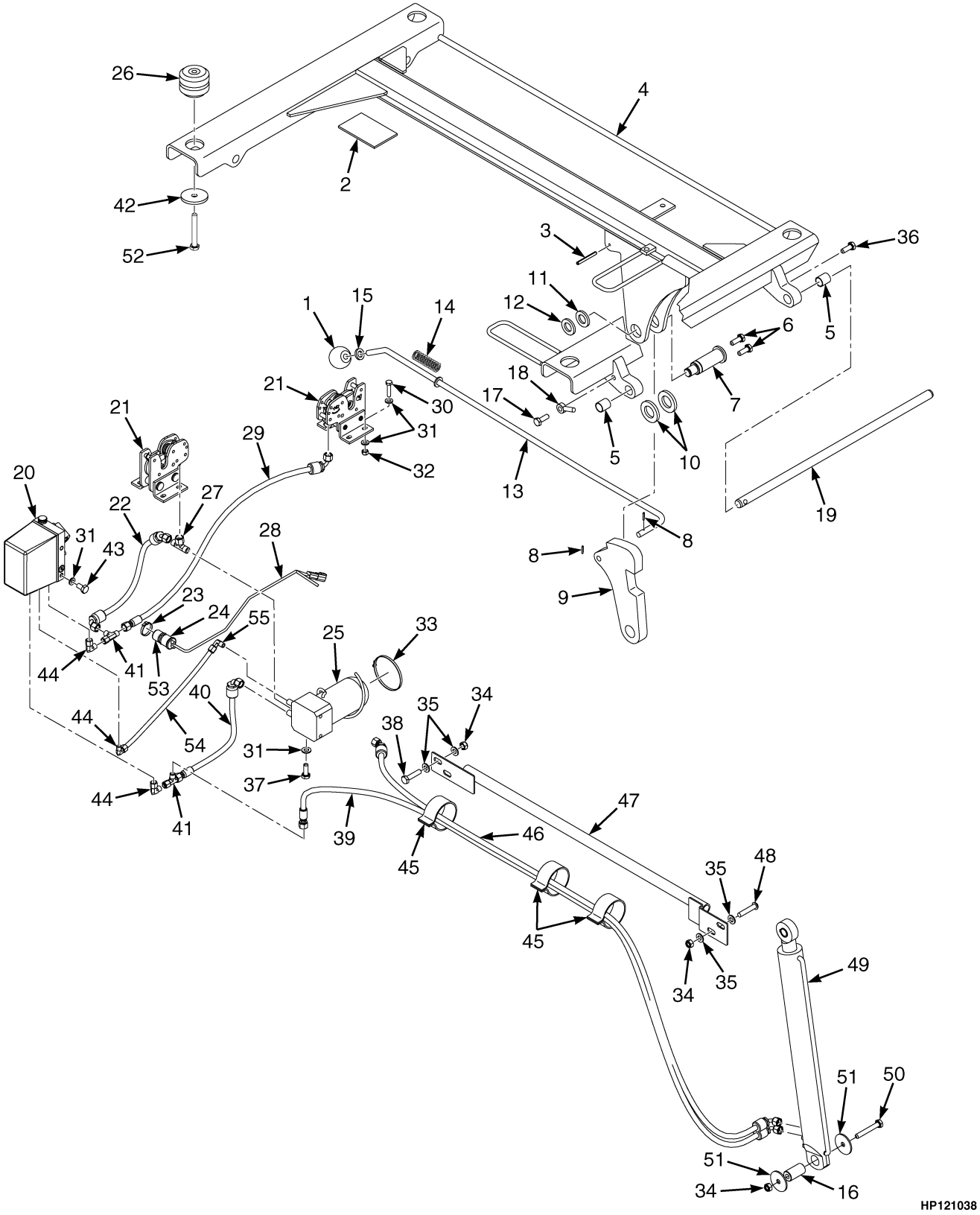
CAB TILT AND LATCH ASSEMBLY (FIGURE 1-17)



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CAB TILT AND LATCH ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1548100	Tilt Platform Assembly	1
1	1493383	Knob	1
2	. . . . .	Plate (Serial Number)	1
3	1644500	Pin	1
4	1644494	Frame (Tilt Platform)	1
5	1493380	Bearing	2
6	1644498	Screw	2
7	1644497	Pin	1
8	1644502	Pin	2
9	1644495	Bracket	1
10	1644496	Shim	2
11	1644499	Retaining Ring	1
12	1498385	Retaining Ring	1
13	1644501	Linkage	1
14	1493385	Spring	1
15	1493386	Washer	1
16	1641991	Pin	1
17	136985	Capscrew	1
18	195566	Anchor	1
19	1474921	Shaft (Tilt)	1
20	1486535	Hand Pump Assembly (☞Figure 1-19)	1
21	1486539	Latch	2
22	1639811	Hose Assy	1
23	137852	Strap Clamp	1
24	1672504	Push Button Switch	1
25	1480186	Cab Tilt Pump Assembly	1
25	1480187	Connector (DTP Rec)	1
25	1480188	Connector (Secondary Lock)	1
25	866401	Terminal	2
25	1475732	Cab Tilt Pump (Electric) (☞Figure 1-18)	1
26	1486540	Mount (Cab)	4
27	1488675	Fitting , Swivel Branch Tee	1
28	1607476	Wire Harness (Powered Cab Tilt)	1
29	1486067	Hose Assy	1
30	132861	Capscrew	8
31	320157	Washer	18
32	302400	Nut	8
33	2004005	Strap Clamp	1
34	302401	Locknut	5
35	320159	Washer	19
36	287854	Capscrew	1
37	287851	Capscrew	2
38	292516	Capscrew	2
39	1639812	Hose Assy	1
40	1496368	Hose Assy	1
41	1496296	Fitting , Swivel Run Tee	2
42	300939	Washer	4
43	292514	Capscrew	2
44	1488676	Fitting , Swivel Elbow	3
45	1557756	Strap (Static)	3
46	1639813	Hose Assy	1

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CAB TILT AND LATCH ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
47	1639715	Bar	1
48	1364272	Capscrew	2
49	2043194	Tilt Cylinder (Cab) (☞Figure 1-20)	1
50	292521	Capscrew	1
51	1639878	Washer	2
52	293655	Capscrew	4
53	1672505	Rain Cap	1
54	~~1488736~~		
	4057161	Hose	1
55	1496459	Fitting	3
	a 1487204	Handle (Tilt Pump) (Inside Cab)	1

FOOTNOTES:

a Not Illustrated

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NOTES

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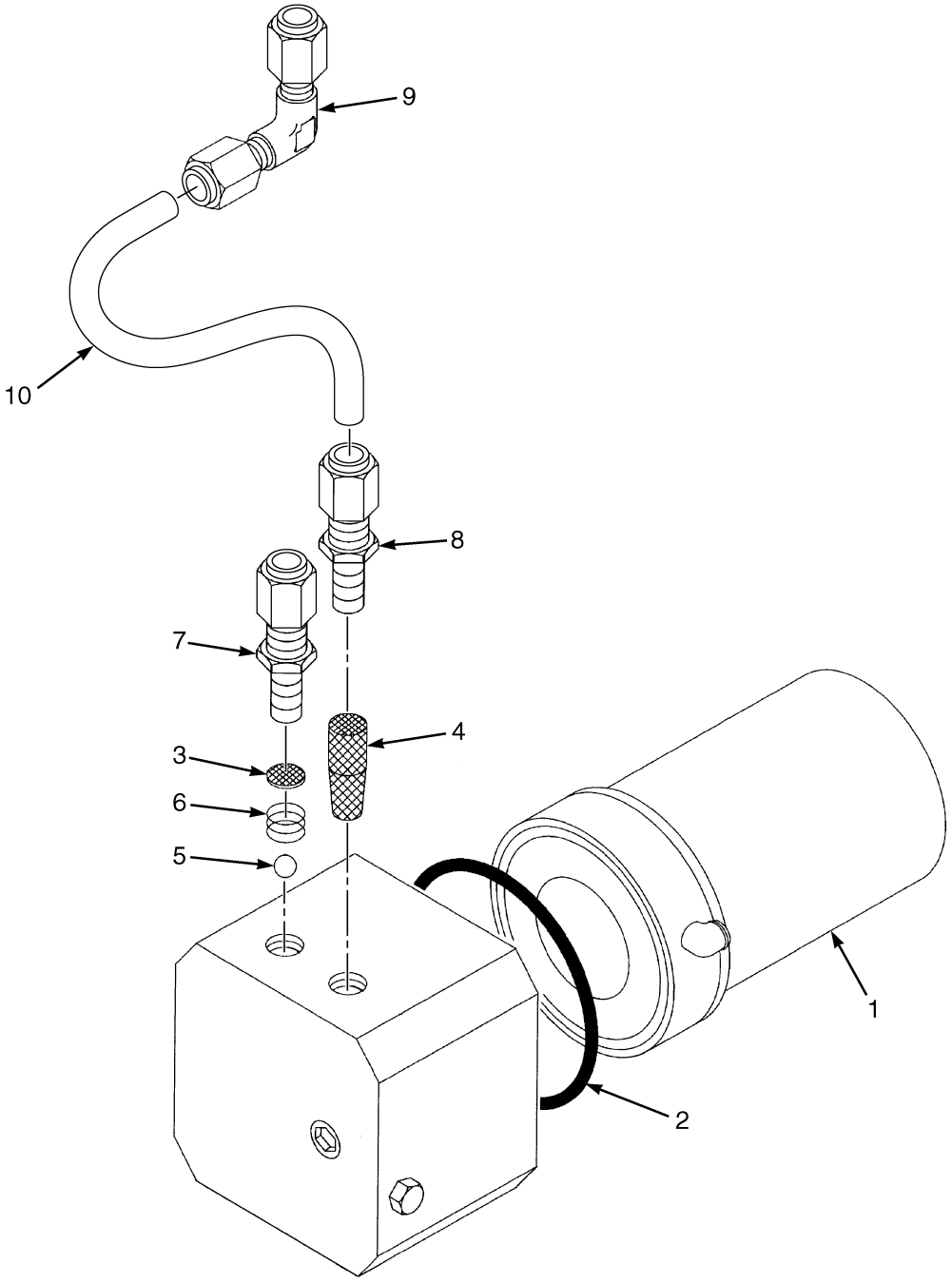
CAB TILT ELECTRIC PUMP (FIGURE 1-18)



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CAB TILT ELECTRIC PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	1475732	Cab Tilt Pump (Electric)	1
1	. . . . .	Electric Motor	1
2	. . . . .	O-Ring	1
3	1488735	Filter	1
4	. . . . .	Screen	1
5	. . . . .	Ball	1
6	. . . . .	Spring	1
7	. . . . .	Coupler	1
8	**a**	Coupler	1
9	1488729	Coupler	1
10	~~1488736~~		
	4057161	Hose	1
	1488728	Kit-Repair Pump	1
	1488725	Kit-Motor	1

FOOTNOTES:

a If application requires elbow fitting, please order 1496459.

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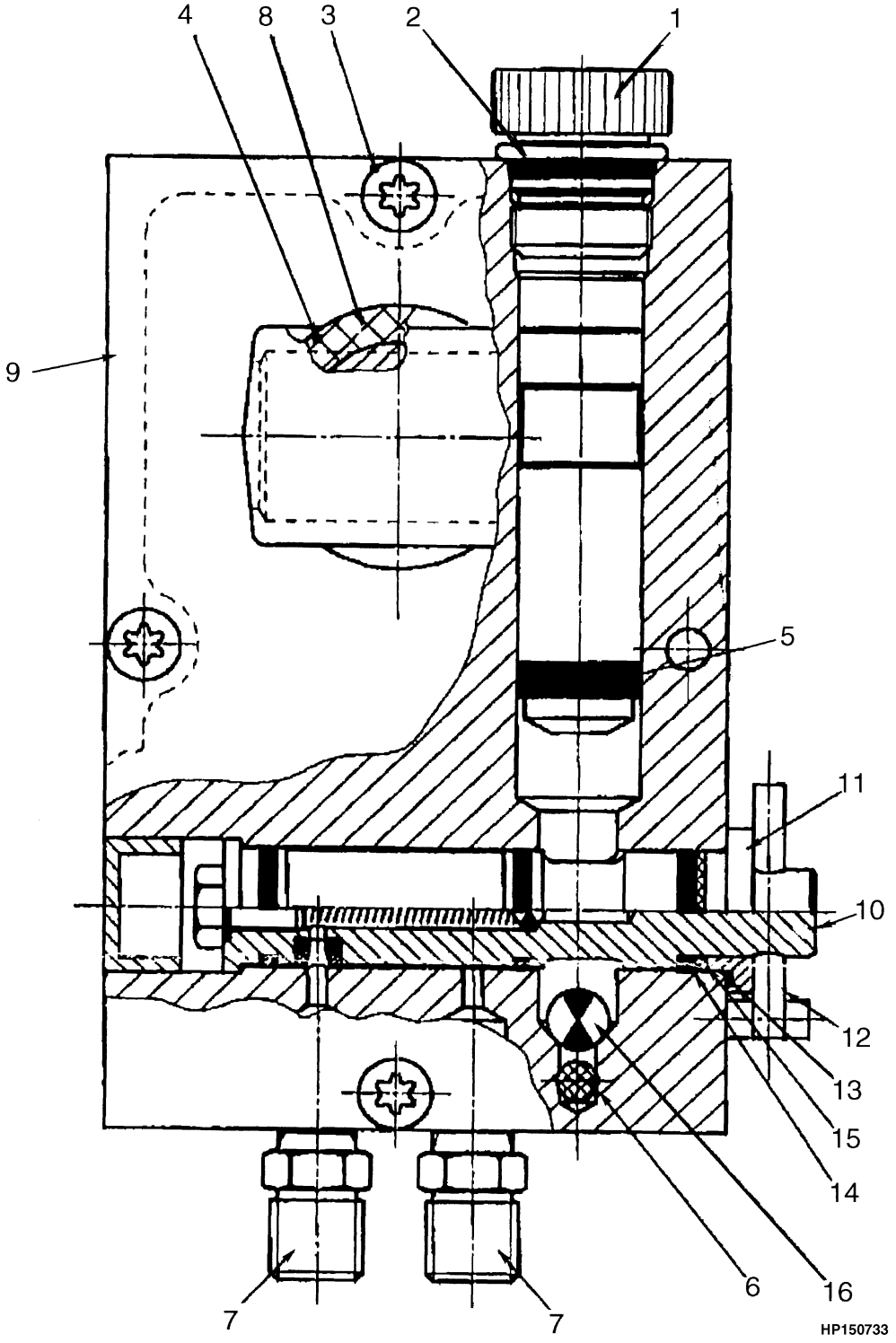
CAB TILT HAND PUMP (FIGURE 1-19)



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CAB TILT HAND PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	1486535	Hand Pump Assembly	1
1	1488689	Plug , Fill (Includes O-Ring)	1
2	. . . . .	O-Ring	1
3	. . . . .	Screw	4
4	. . . . .	Bearing	1
5	. . . . .	Seal	1
6	. . . . .	Filter	1
7	. . . . .	Coupler	2
8	. . . . .	O-Ring	1
9	. . . . .	Gasket	1
10	. . . . .	Spool	1
11	. . . . .	Washer	1
12	. . . . .	Pin	1
13	. . . . .	O-Ring	1
14	. . . . .	O-Ring	1
15	. . . . .	Back-Up Ring	1
16	. . . . .	Ball	1
	1488704	Kit-Seal	1
	1488705	Kit-Seal	1
	4038507	Kit-Seal	1
	4186568	Kit-Adapter	1

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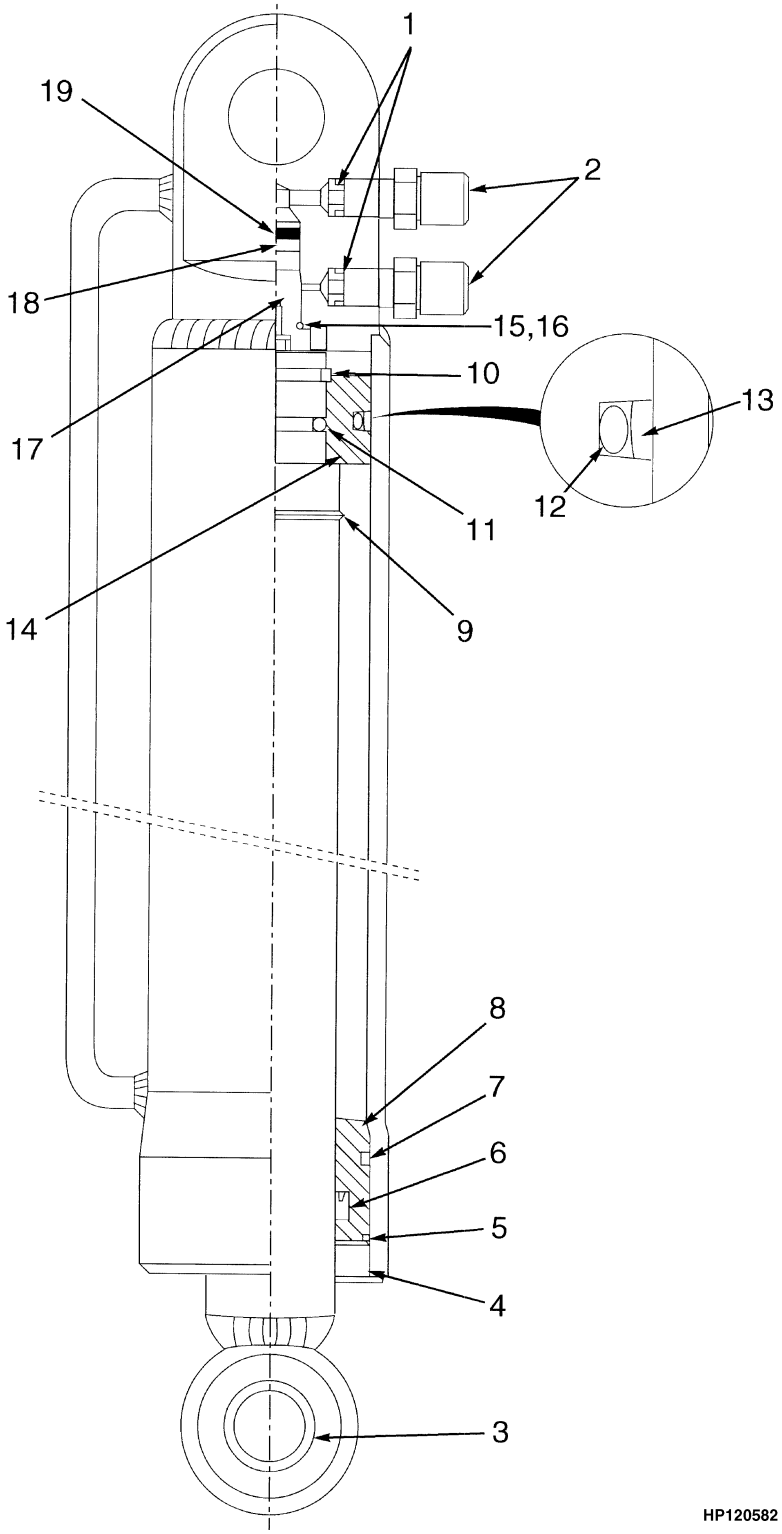
CAB TILT CYLINDER (FIGURE 1-20)



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CAB TILT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2043194	Tilt Cylinder (Cab)	1
1	1488735	Filter	2
2	. . . . .	Coupler	2
3	1488751	Spacer	2
4	. . . . .	Wiper	1
5	. . . . .	Retaining Ring (Bore)	1
6	. . . . .	U-Cup	1
7	. . . . .	O-Ring	1
8	. . . . .	Gland	1
9	. . . . .	Retaining Ring (Shaft)	1
10	. . . . .	Retaining Ring (Shaft)	1
11	. . . . .	O-Ring	1
12	. . . . .	O-Ring	1
13	. . . . .	Sleeve	1
14	. . . . .	Piston	1
15	. . . . .	Washer	1
16	. . . . .	O-Ring	1
17	. . . . .	Valve Seat Assembly	1
18	. . . . .	Pilot Piston Assembly	1
19	. . . . .	O-Ring	1
	1488752	Kit-Seal	1
	1665756	Kit-Service	1
	1488762	Kit-Service	1

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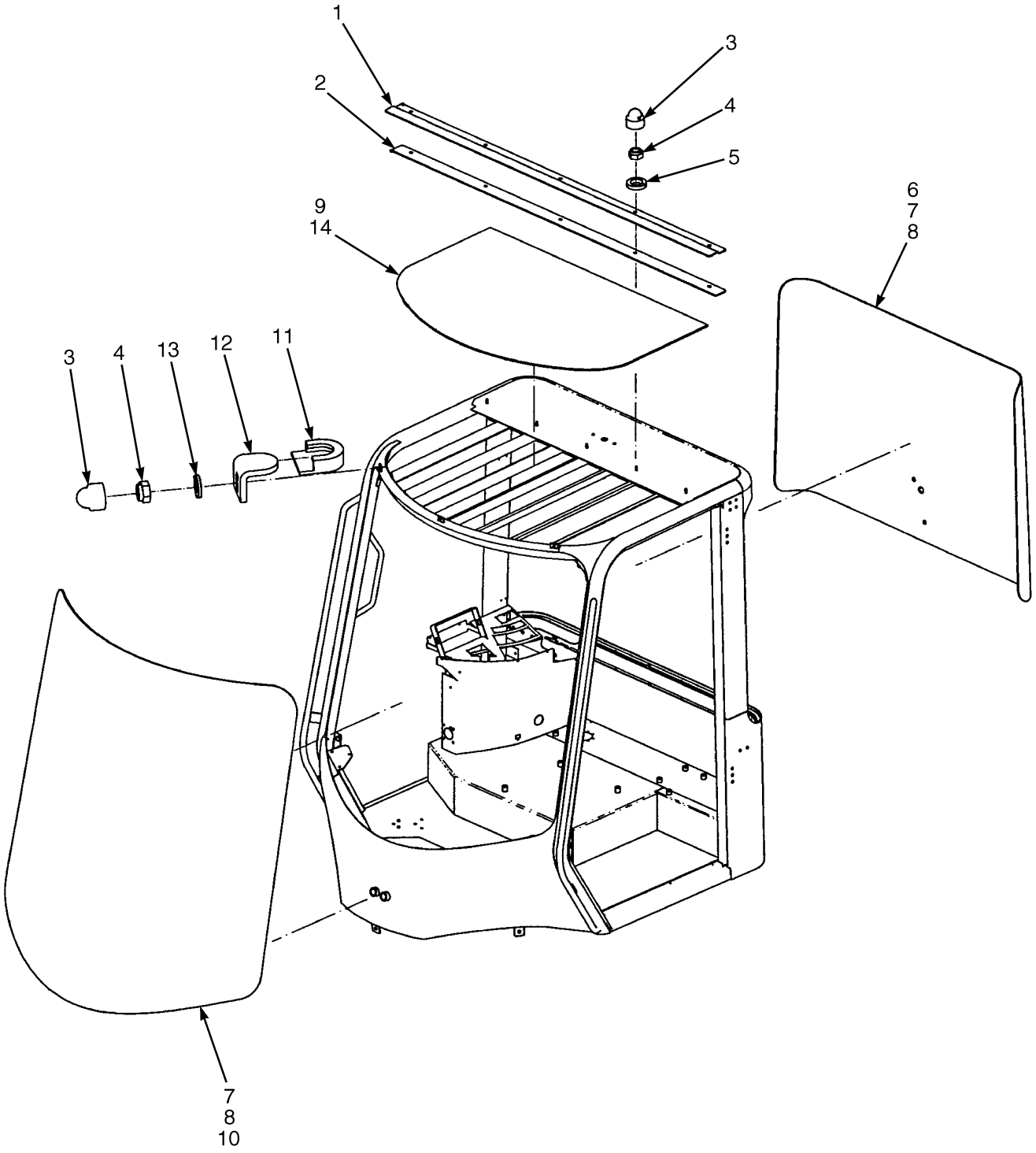
CAB WINDOWS INSTALLATION (FIGURE 1-21)



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CAB WINDOWS INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
1	1493328	Clip , Window	1
2	1498341	Seal	1
3	1493397	Cover (Capscrew Head)	8
4	316834	Nut	8
5	1498342	Washer	5
6	1493324	Window (Rear)	1
7	~~1393465~~		
	1493321	Seal	AR
8	1393466	Seal (11.5 ft.)	1
9	1515337	Seal (Bulk)	AR
10	1493320	Window (Tempered)	1
11	1493329	Cover	3
12	1498343	Clip	3
13	320156	Washer	3
14	~~1558024~~		
	1493326	Window (Skylight)	1

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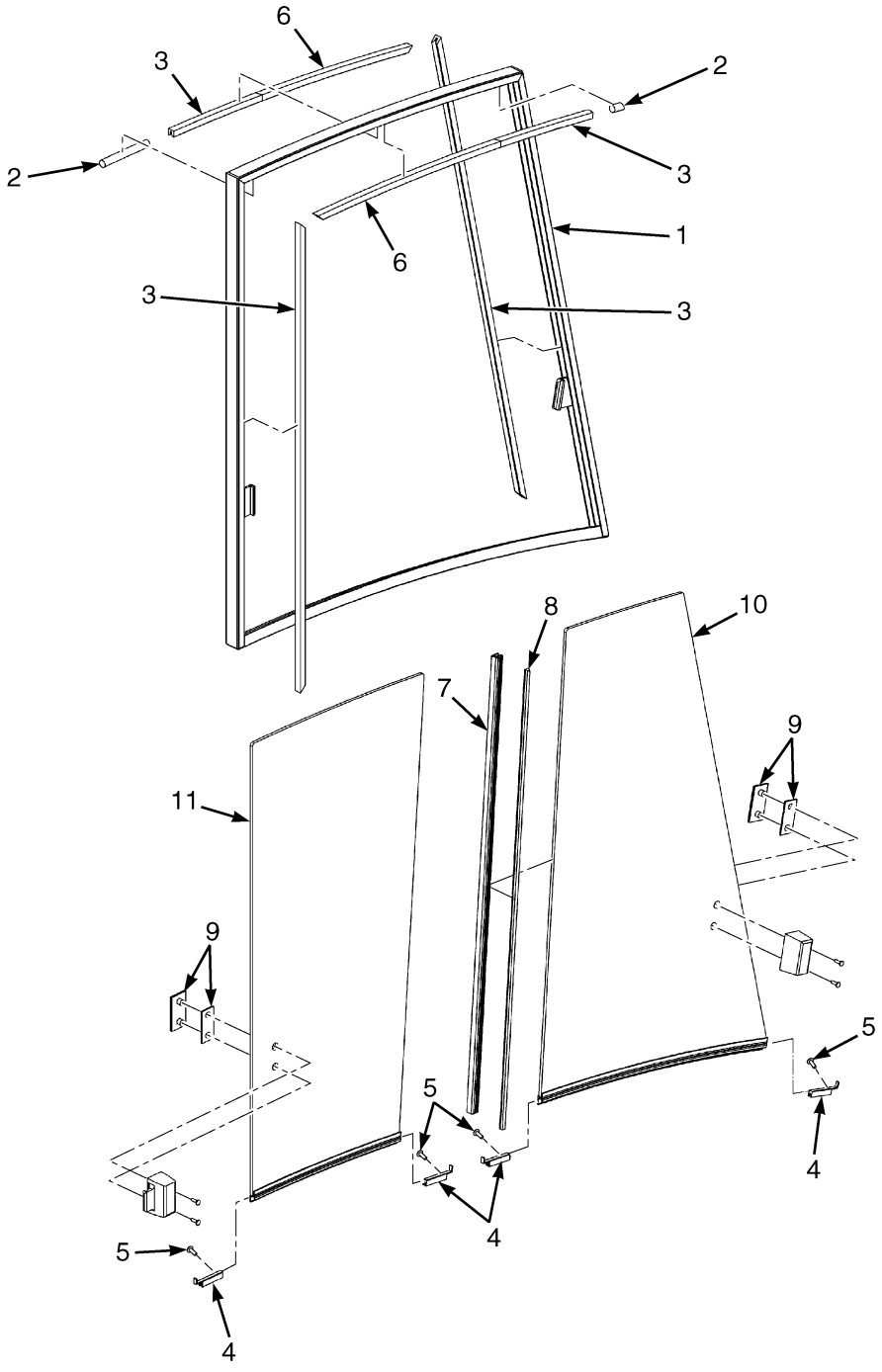
CAB MAIN DOOR WINDOW (FIGURE 1-22)
RIGHT AND LEFT HAND



BP121558

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CAB MAIN DOOR WINDOW
RIGHT AND LEFT HAND

KEY:
A: Right Hand
B: Left Hand

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	~~1558293~~			
	1644795	Window (Main)	1	..
	~~1558441~~			
	1644794	Window (Main)	..	1
1	1644803	Frame (Sliding Window)	1	..
1	1644796	Frame (Sliding Window)	..	1
2	1641640	Strip Seal	AR	AR
3	1644804	Seal	AR	AR
4	~~1644801~~			
	4009782	Guide	4	4
5	1644802	Screw	4	4
6	1641637	Seal	AR	AR
7	1644799	Guard (Window)	1	1
8	1644800	Seal	AR	AR
9	1483226	Latch (Sliding Window)	2	2
10	1644806	Glass	1	..
10	1644797	Glass	..	1
11	1644805	Glass	1	..
11	1644798	Glass	..	1

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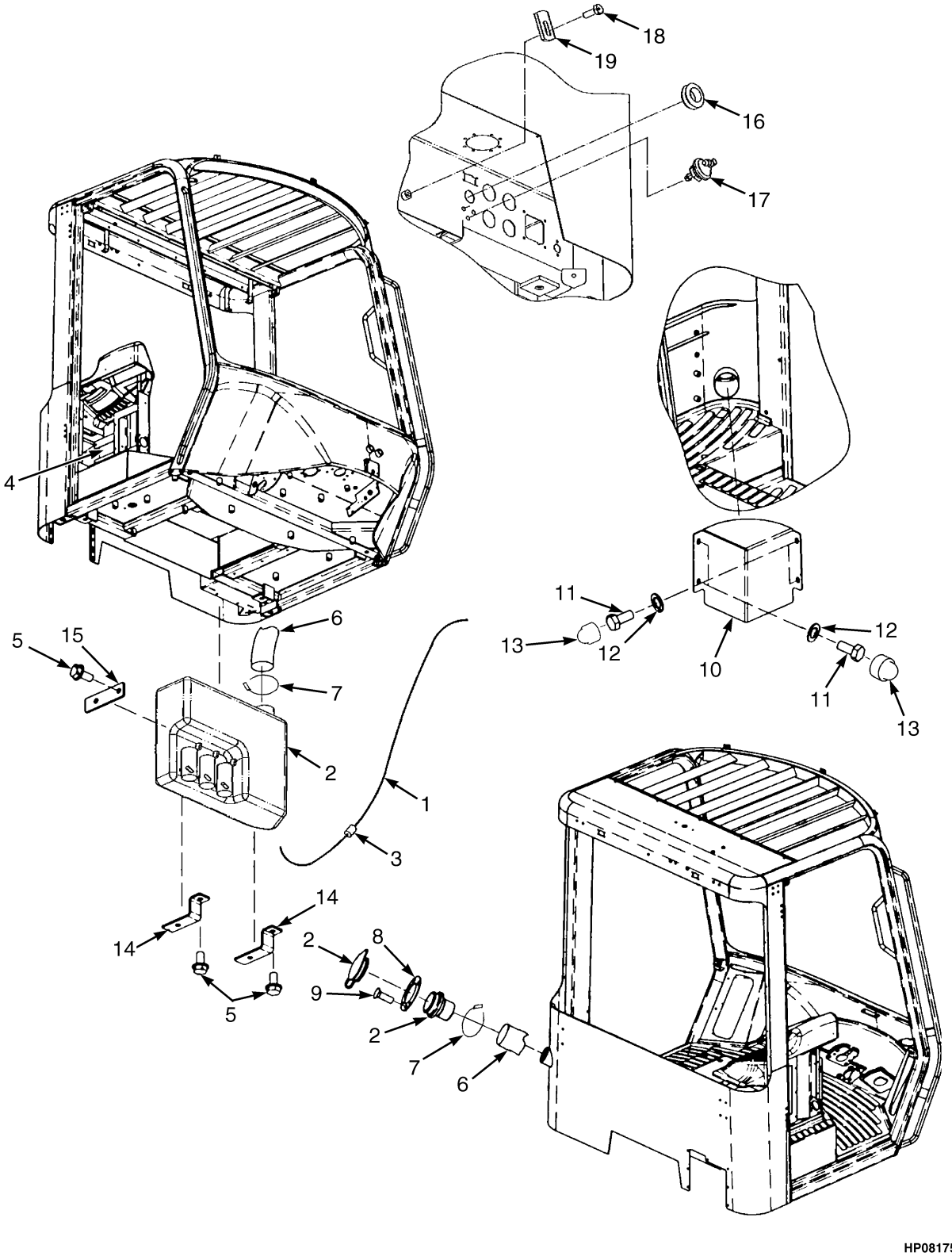
WINDOW WIPER SYSTEM (FIGURE 1-23)
WASHER BOTTLE KIT



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WINDOW WIPER SYSTEM
WASHER BOTTLE KIT

ITEM	PART NO.	DESCRIPTION	QTY
	1702285	Kit-Wiper (Washer Bottle)	1
1	1393509	Hose	AR
2	1626996	Reservoir Assembly (Window Washer)	1
2	1635026	Cap	1
2	1635025	Pump	3
3	~~1393495~~		
	1301685	Check Valve	1
4	1492156	Relay (Wiper Timer)	1
5	1566044	Bolt	3
6	1635020	Hose	1
7	1704396	Clamp	4
8	1635021	Washer	1
9	1635022	Screw	4
10	1635023	Cover	1
11	292500	Capscrew	4
12	1506738	Washer	4
13	1493397	Cover (Capscrew Head)	4
14	1635018	Bracket	2
15	1635019	Plate	1
16	1515675	Grommet	1
17	1493336	Connector (Spray Nozzle)	2
18	1571632	Screw	6
19	4010862	Bracket	6

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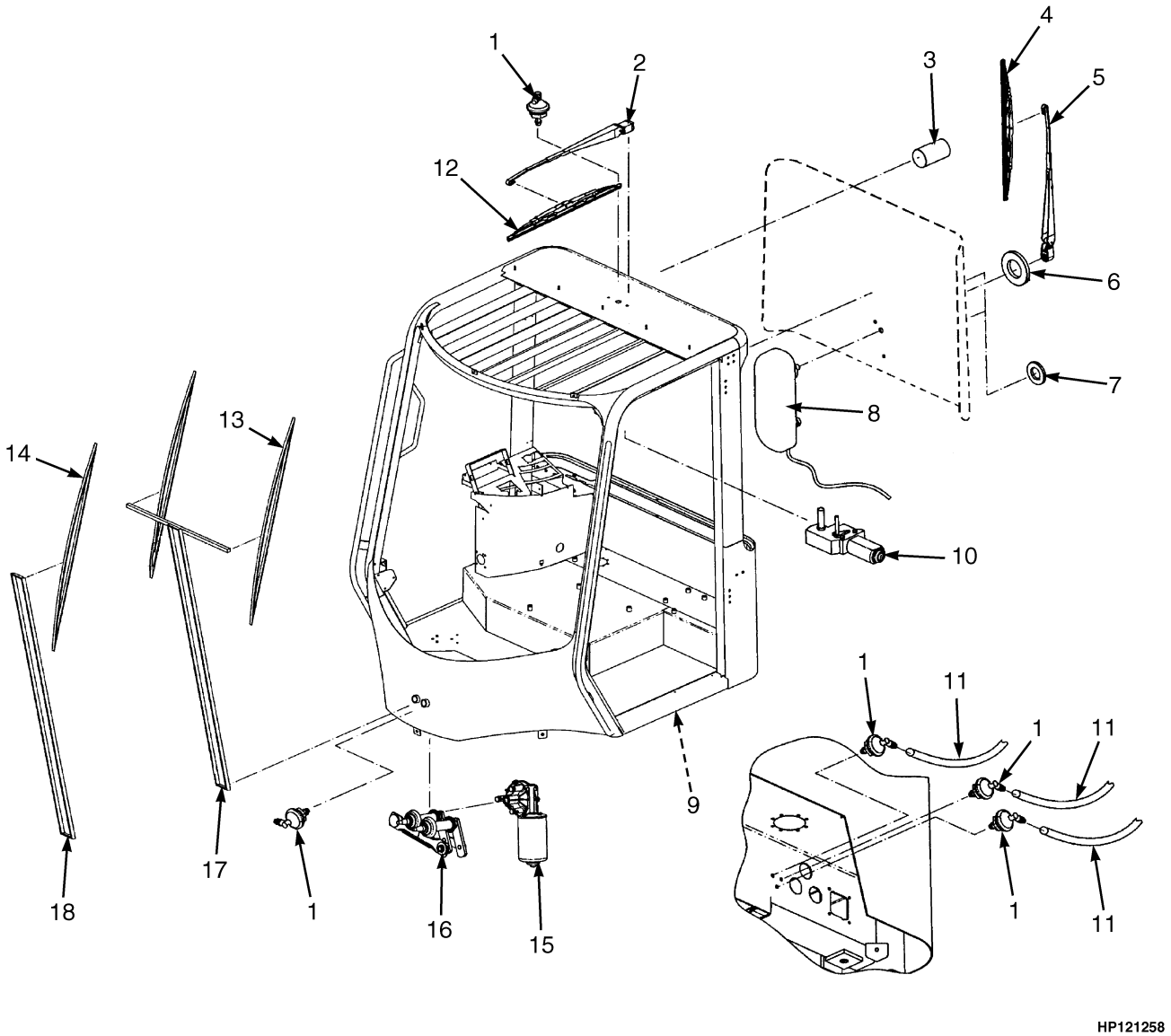
WINDOW WIPER SYSTEM (FIGURE 1-24)
REAR AND ROOF WIPER KITS — AND FRONT WIPER OPTIONS



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WINDOW WIPER SYSTEM

REAR AND ROOF WIPER KITS – AND FRONT WIPER OPTIONS

ITEM	PART NO.	DESCRIPTION	QTY
1	1493336	Connector (Spray Nozzle)	6
2	1498347	Wiper Arm (Top)	1
3	1498344	Washer (Nozzle) (Dual Wiper)	1
4	~~1493340~~		
	1690934	Wiper Blade	1
5	1493341	Wiper Arm (Rear)	1
6	1558025	Washer	1
7	1554125	Washer	2
8	1493339	Wiper Motor (Rear)	1
8	1545170	Wire Harness (Rear Wiper Extension)	1
9	1547279	Wire Harness (Wash Pumps)	1
10	1493344	Wiper Motor (Top)	1
11	1493337	Hose	AR
12	1498348	Wiper Blade (Top)	1
13	1573574	Wiper Blade (Dual Wiper)	2
14	1493335	Wiper Blade (Single Wiper)	1
15	1493332	Wiper Motor (Front)	1
16	1493333	Linkage (Front, Single Wiper)	1
16	4016648	Linkage (Front, Dual Wiper)	1
17	1573575	Wiper Arm (Dual Wiper)	1
18	1493334	Wiper Arm (Single Wiper)	1
19	~~1393495~~		
	1301685	Check Valve (Not Illustrated)	2
20	1704370	Sleeve (Not Illustrated)	1
	1702283	Kit-Wiper (Rear)	1
	1702284	Kit-Wiper (Roof)	1

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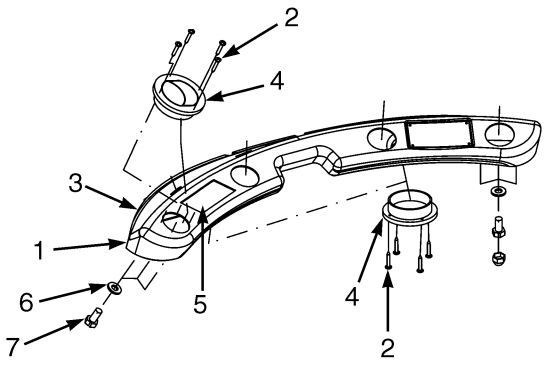
DASH AND AIR DUCT ASSEMBLY (FIGURE 1-25)



HP121130

ITEM	PART NO.	DESCRIPTION	QTY
	1492200	Cover (Dash and Cap Assembly)	1
1	1492195	Cover	1
2	1654935	Screw	24
3	1512822	Seal	AR
4	1598398	Louver (Air) (Round)	4
5	1492196	Ashtray	1
6	1468321	Washer (Plastic)	6
7	292501	Capscrew	6

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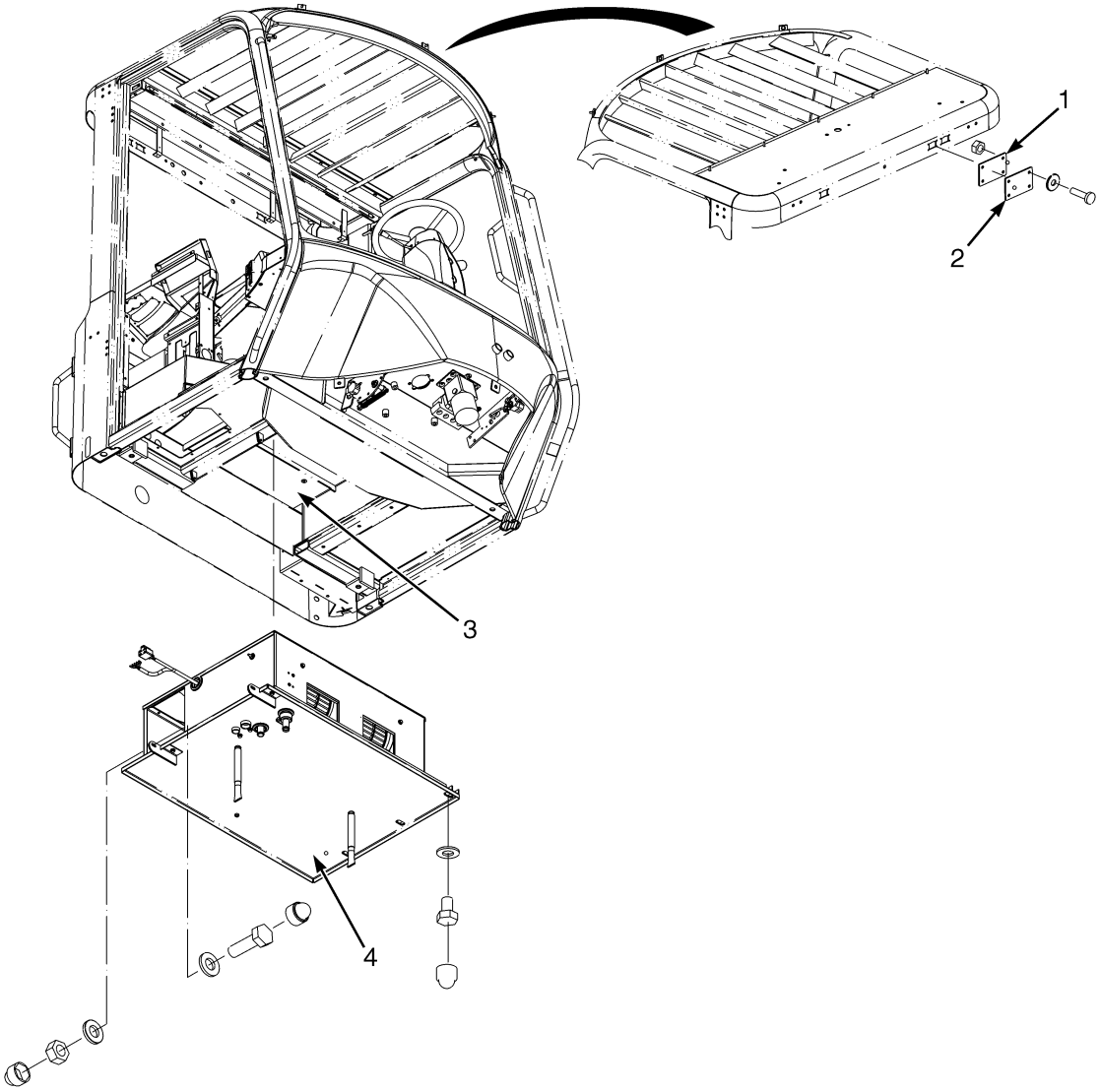
HEATER AND AIR DUCT (FIGURE 1-26)
WITH TWO-FAN CONDENSER SYSTEM — CLOSED CAB ONLY



HP200122

ITEM	PART NO.	DESCRIPTION	QTY
1	1635008	Seal	1
2	1635007	Plate	1
3	4000400	Air Duct Assembly (☞Figure 1-27)	1
4	4000399	Heater Assembly (☞Figure 1-28)	1

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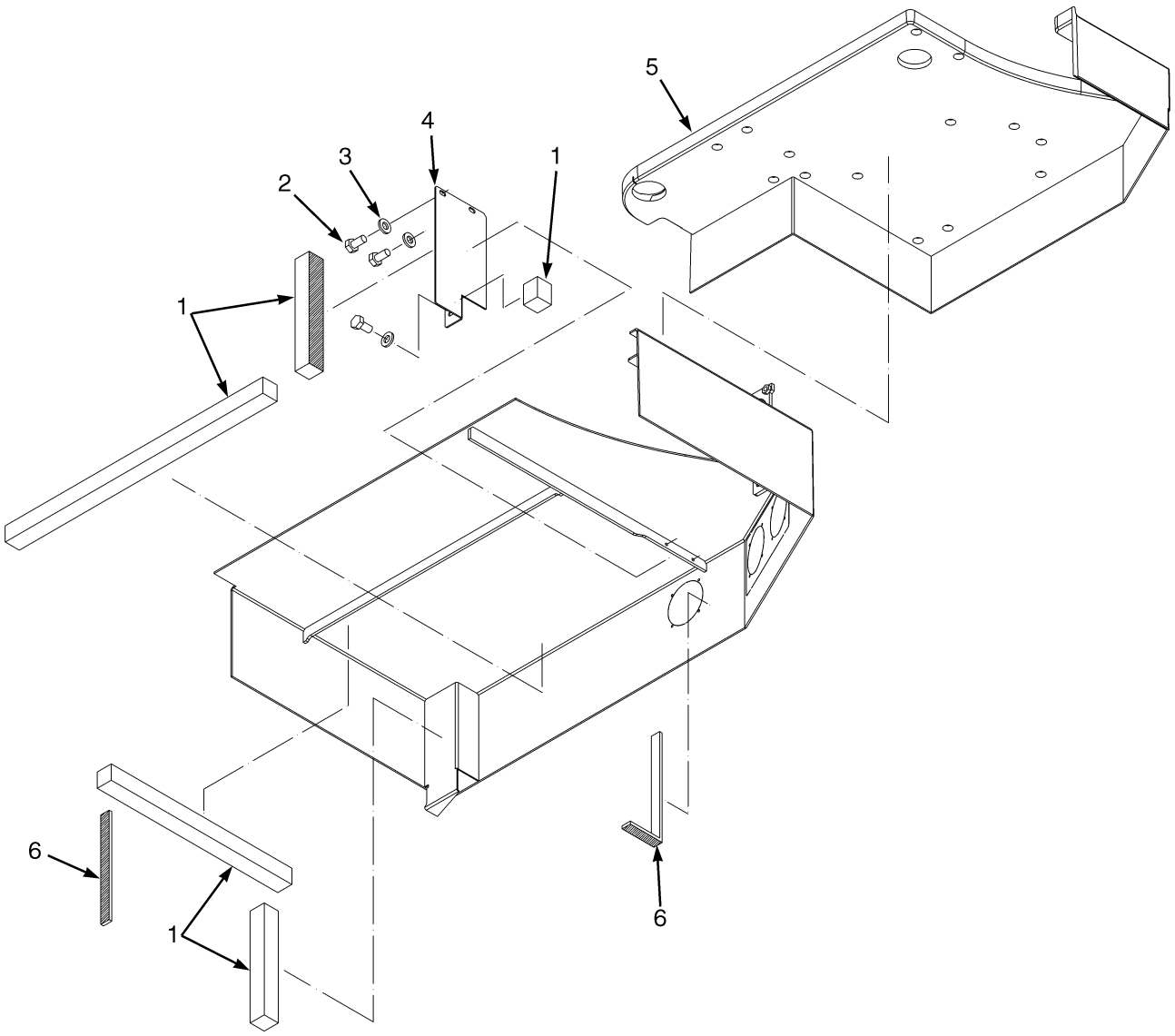
AIR DUCT ASSEMBLY (FIGURE 1-27)
HEATER — WITH TWO-FAN CONDENSER SYSTEM



HP200121

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AIR DUCT ASSEMBLY

HEATER – WITH TWO-FAN CONDENSER SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
	4000400	Air Duct Assembly	1
1	4000919	Foam	AR
2	4000918	Screw	3
3	320156	Washer	3
4	4000917	Cover Plate (Heater)	1
5	1493282	Floormat (Seat)	1
6	4000920	Foam	AR

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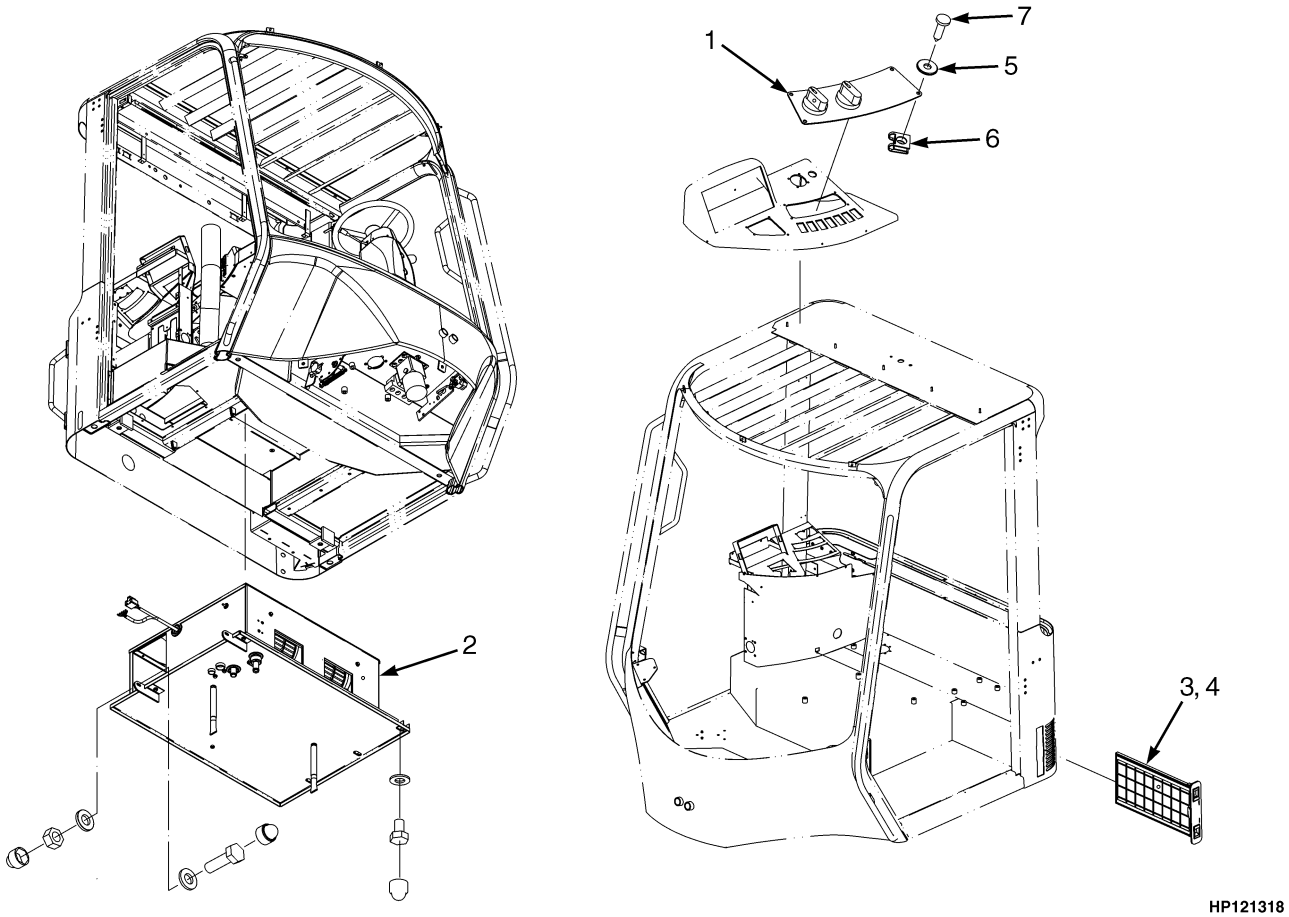
HEATER SYSTEM (FIGURE 1-28)
WITH TWO-FAN CONDENSER SYSTEM



ITEM	PART NO.	DESCRIPTION	QTY
	4000399	Heater Assembly	1
1	4000916	Heater Control Panel Assembly (MCC) (☞Figure 1-29)	1
2	4000915	Heater Assembly (MCC) (☞Figure 1-30)	1
3	1493276	Air Filter	1
4	4029152	Bracket , Air Filter	1
5	4028463	Washer	4
6	1492139	Nut	4
7	4028467	Screw	4

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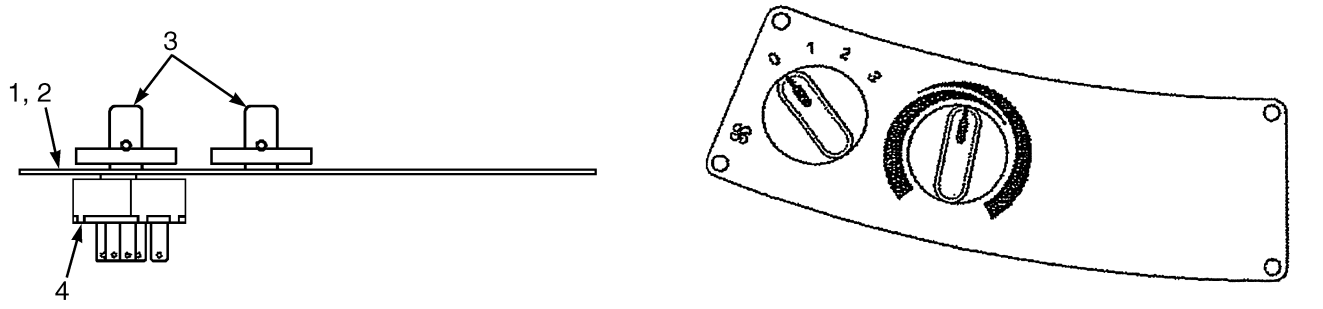
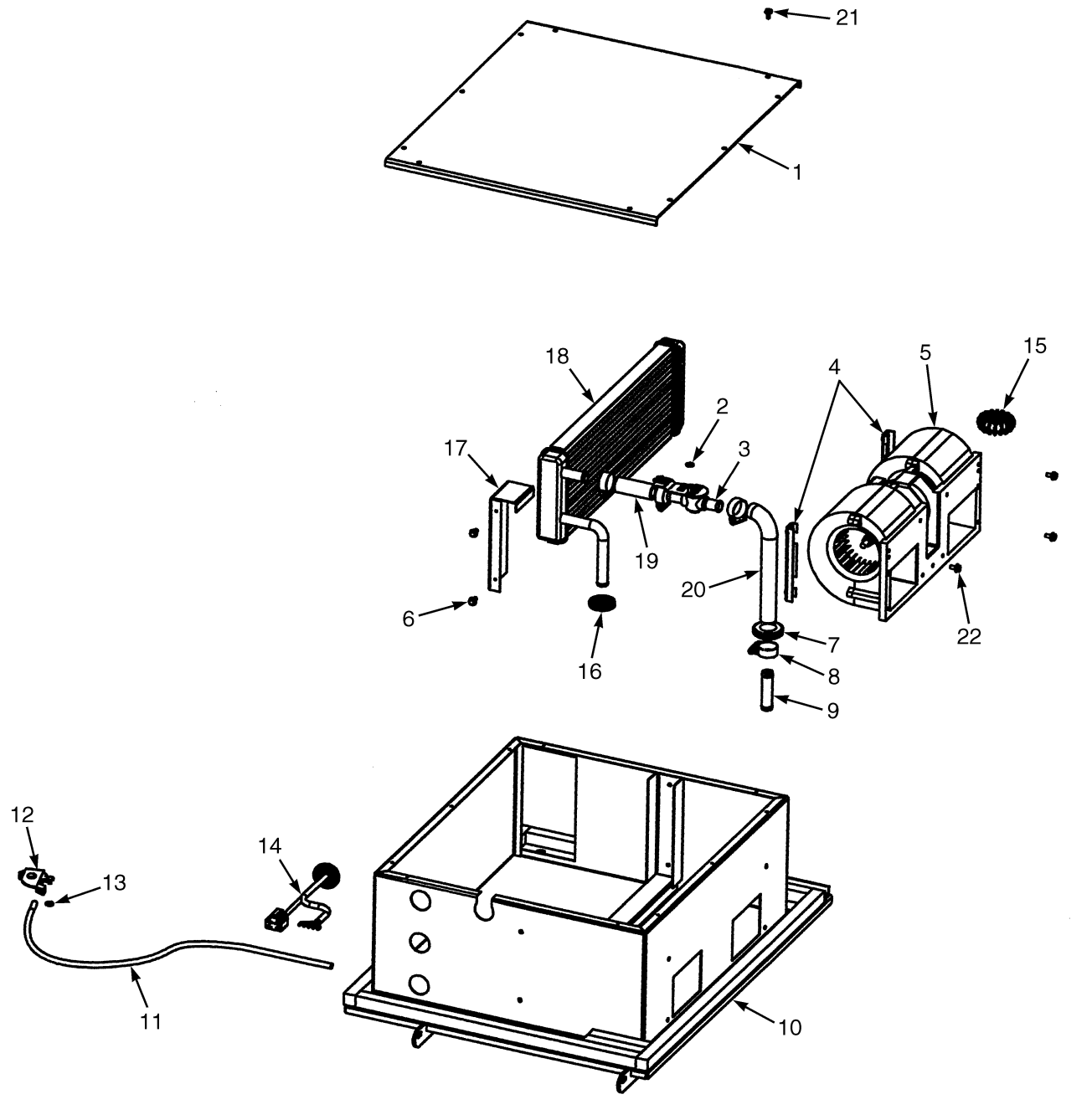
CONTROL PANEL ASSEMBLY (FIGURE 1-29)
HEATER



HP082044

ITEM	PART NO.	DESCRIPTION	QTY
	4000916	Heater Control Panel Assembly (MCC)	1
1	~~4004307~~		
	4054247	Plate	1
2	1487960	Cover	1
3	1487957	Knob	2
4	1487956	Switch , Blower (with Nut)	1

HEATER ASSEMBLY (FIGURE 1-30)
WITH TWO-FAN CONDENSER SYSTEM



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HEATER ASSEMBLY
WITH TWO-FAN CONDENSER SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
	4000915	Heater Assembly (MCC)	1
1	4004928	Cover	1
2	4004933	Washer	1
3	1487947	Water Valve	1
4	4004930	Bracket (Blower)	2
5	4004929	Blower	1
6	4161647	Screw	2
7	1487953	Grommet	1
8	4161644	Hose Clamp	4
9	1487952	Tube (Copper)	1
10	4004926	Case	1
11	4004931	Wire	1
12	1487959	Switch (180°)	1
13	4004932	Washer	1
14	4004934	Wire Harness	1
15	4161645	Coil	1
16	4003088	Grommet	1
17	4004927	Bracket (Heater)	1
18	4003091	Core (Heater Coil)	1
19	4095219	Hose	1
20	4095218	Hose	1
21	4054235	Screw	10
22	4161646	Screw	4

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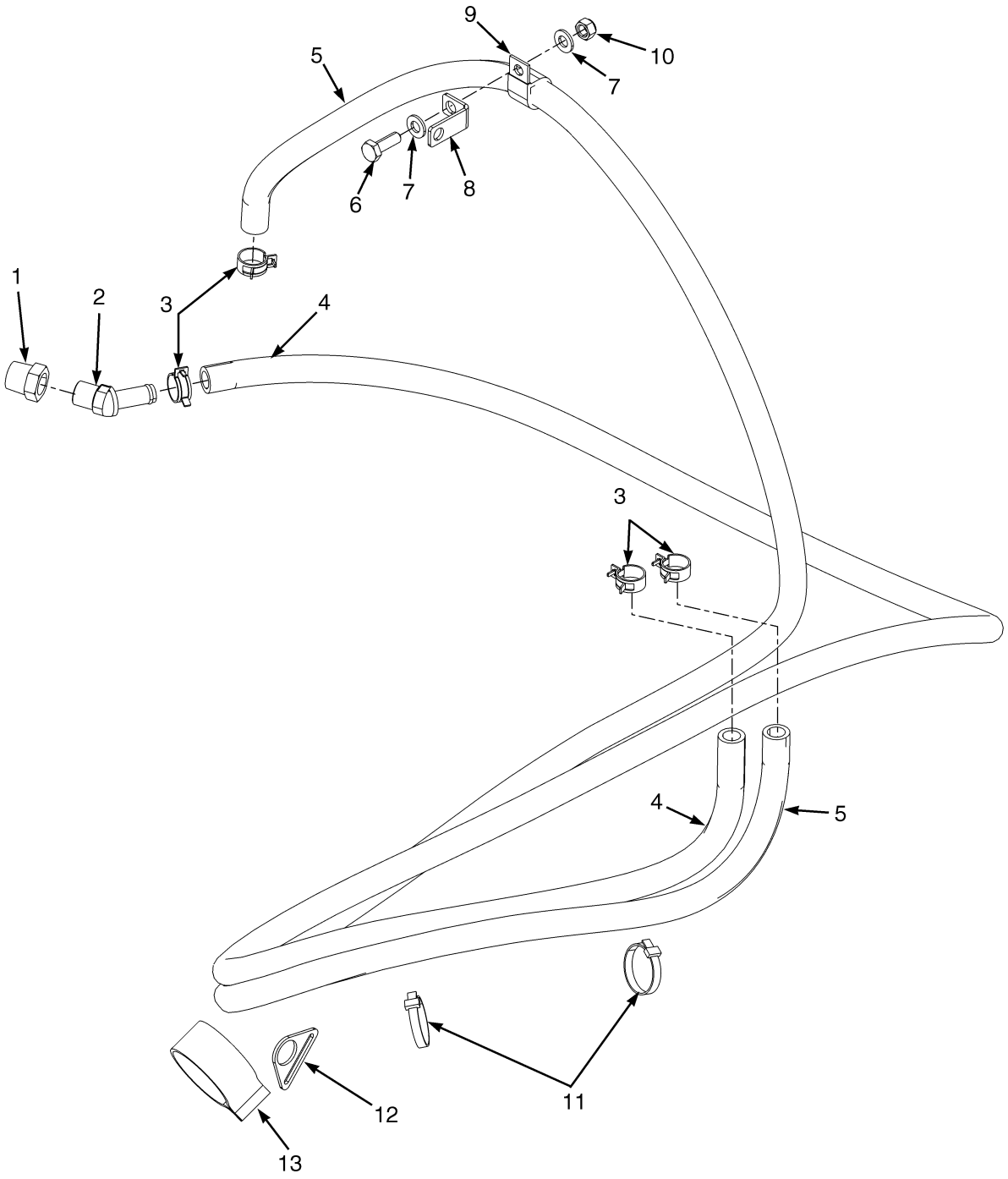
HEATER HOSES AND ATTACHING PARTS (FIGURE 1-31)

TIER III ENGINE



HP121052

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HEATER HOSES AND ATTACHING PARTS
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	12845	Fitting	1
2	127852	Fitting	1
3	130845	Clamp	4
4	1313368	Hose	1
5	123799	Hose	1
6	136985	Capscrew	1
7	320159	Washer	2
8	1641794	Bracket	1
9	153069	Clamp	1
10	302401	Locknut	1
11	129563	Strap Clamp	2
12	1643684	Plate (Strap Clamp)	1
13	1557756	Strap (Static)	1

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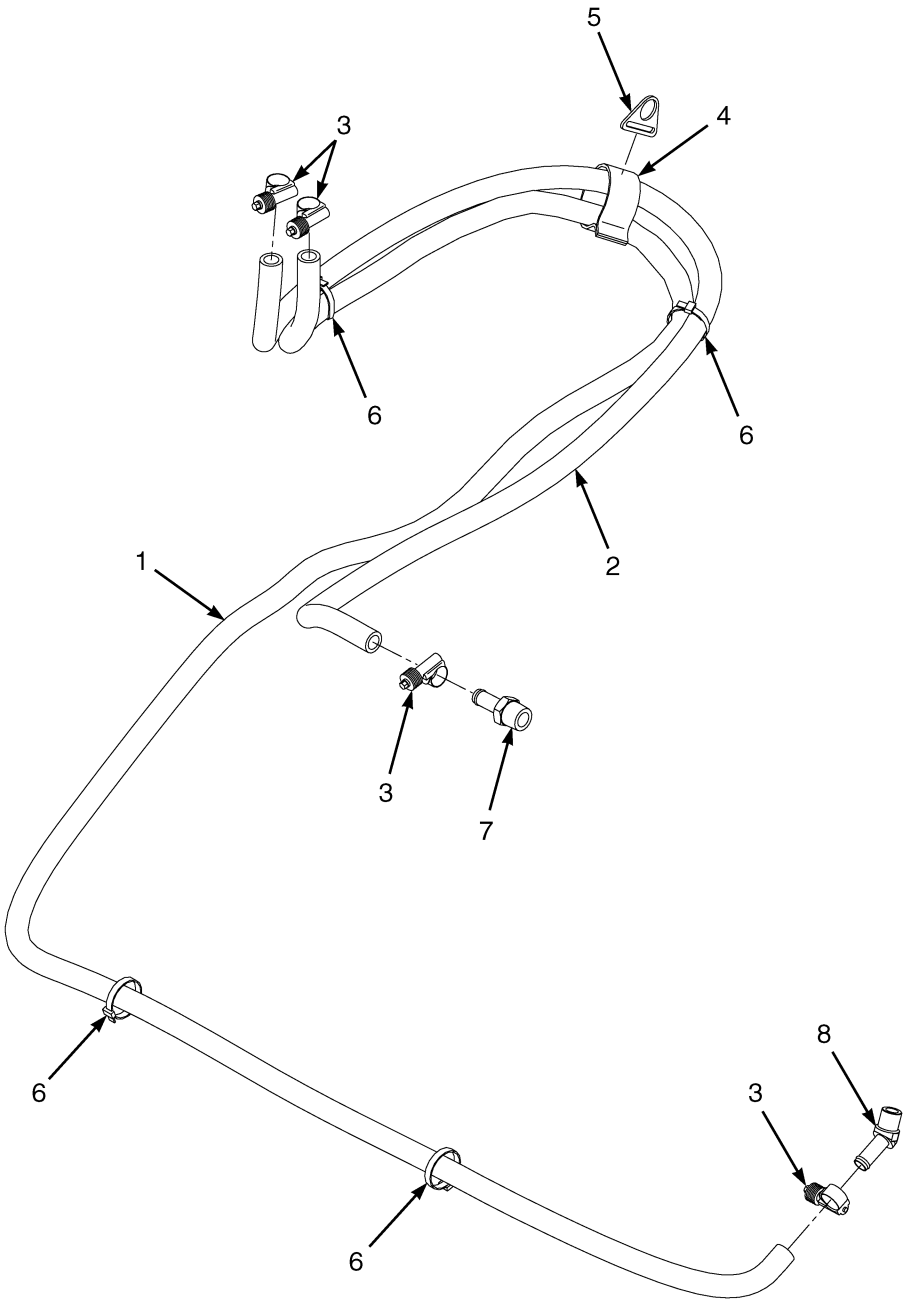
HEATER HOSES AND ATTACHING PARTS (FIGURE 1-32)

TIER IV INTERIM ENGINE



HP121301

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HEATER HOSES AND ATTACHING PARTS

TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1644475	Hose	1
2	258493	Hose	1
3	4018394	Hose Clamp	4
4	1557756	Strap (Static)	1
5	1643684	Plate (Strap Clamp)	1
6	129563	Strap Clamp	4
7	1470166	Hose Fitting	1
8	127852	Fitting	1

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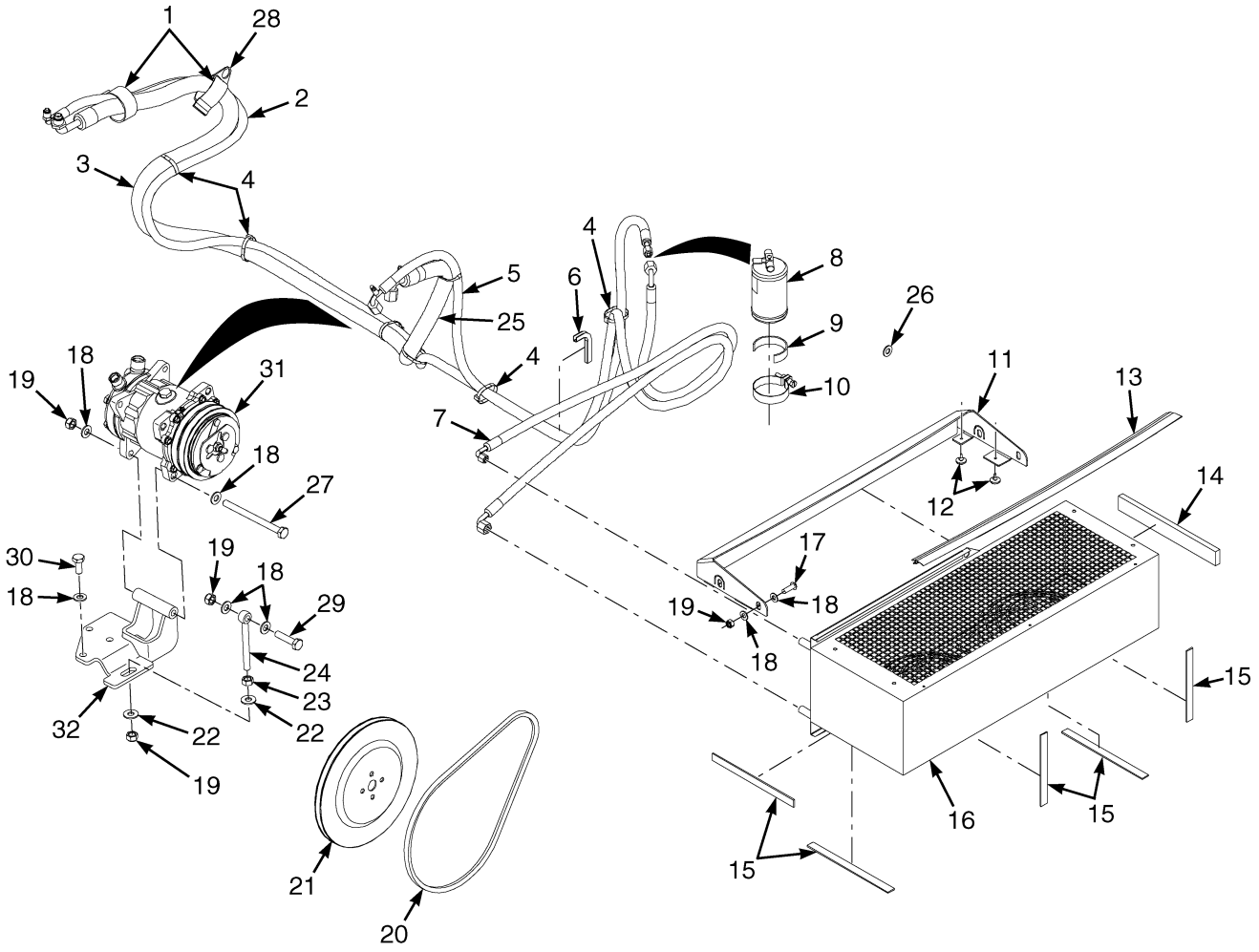
CONDENSER HOSES AND ATTACHING PARTS (FIGURE 1-33)

TIER III ENGINE



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CONDENSER HOSES AND ATTACHING PARTS
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1557756	Strap (Static)	2
2	1693234	Hose (Refrigerant)	1
3	~~1693235~~		
	4079428	Hose	1
4	129563	Strap Clamp	9
5	1693233	Hose	1
6	2007856	Trim	1
7	1693232	Hose	1
8	1693804	Air Dryer Assembly	1
8	1695629	Relief Valve	1
9	1652097	Tape	AR
10	1591591	Bracket	1
11	1614377	Plate	1
12	1450759	Button	6
13	1491360	Seal-Bulk	AR
14	1546460	Foam Tape	AR
15	261156	Foam Tape	AR
16	1693236	Condenser	1
17	296174	Capscrew	4
18	320159	Washer	16
19	302401	Locknut	7
20	118135	V-Belt	1
21	1649268	Pulley	1
22	320160	Washer	2
23	136692	Nut	1
24	1686686	Eyebolt	1
25	316596	Sleeve (Coil)	1
26	1693162	Spacer	2
27	1390281	Capscrew	1
28	1643684	Plate (Strap Clamp)	1
29	292516	Capscrew	1
30	287854	Capscrew	3
31	1689914	Compressor Assembly (MCC) (☞Figure 1-36)	1
32	1686670	Bracket Wldmt	1
	a 4133048	Wire , Resistor (Airco Switch, Side Console)	1
	a 114312	Strap Clamp	1

FOOTNOTES:

a Not Illustrated

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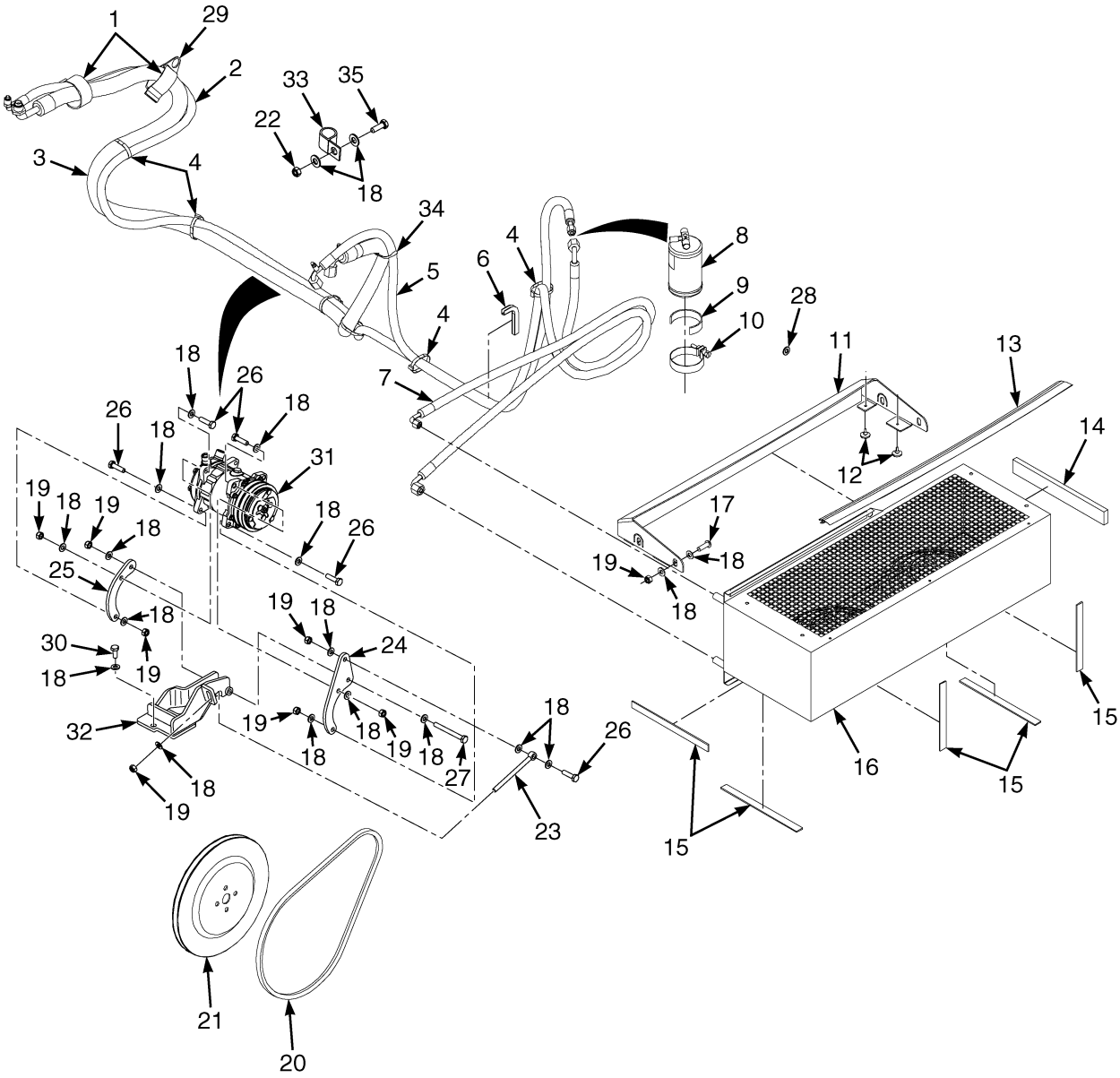
CONDENSER HOSES AND ATTACHING PARTS (FIGURE 1-34)

TIER IV INTERIM ENGINE



HP121300

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CONDENSER HOSES AND ATTACHING PARTS
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1557756	Strap (Static)	2
2	1693234	Hose (Refrigerant)	1
3	~~4023376~~		
	4082407	Hose (Refrigerant)	1
4	129563	Strap Clamp	10
5	4017091	Hose (Refrigerant)	1
6	2007856	Trim	1
7	1693232	Hose	1
8	1693804	Air Dryer Assembly	1
8	1695629	Relief Valve	1
9	1652097	Tape	AR
10	1591591	Bracket	1
11	1614377	Plate	1
12	1450759	Button	6
13	1491360	Seal-Bulk	AR
14	1546460	Foam Tape	AR
15	261156	Foam Tape	AR
16	1693236	Condenser (☞Figure 1-37)	1
17	296174	Capscrew	4
18	320159	Washer	25
19	302401	Locknut	11
20	2080581	V-Belt	1
21	4011217	Pulley	1
22	302400	Nut	1
23	1686689	Eyebolt	1
24	4015037	Plate	1
25	4015039	Plate	1
26	292515	Capscrew	5
27	292525	Capscrew	1
28	1693162	Spacer	2
29	1643684	Plate (Strap Clamp)	1
30	287854	Capscrew	3
31	1689914	Compressor Assembly (MCC) (☞Figure 1-36)	1
32	4014519	Bracket	1
33	166112	Clamp	2
34	137852	Strap Clamp	1
35	136749	Screw	1
	a 4133048	Wire , Resistor (Airco Switch, Side Console)	1
	a 114312	Strap Clamp	1

FOOTNOTES:

a Not Illustrated

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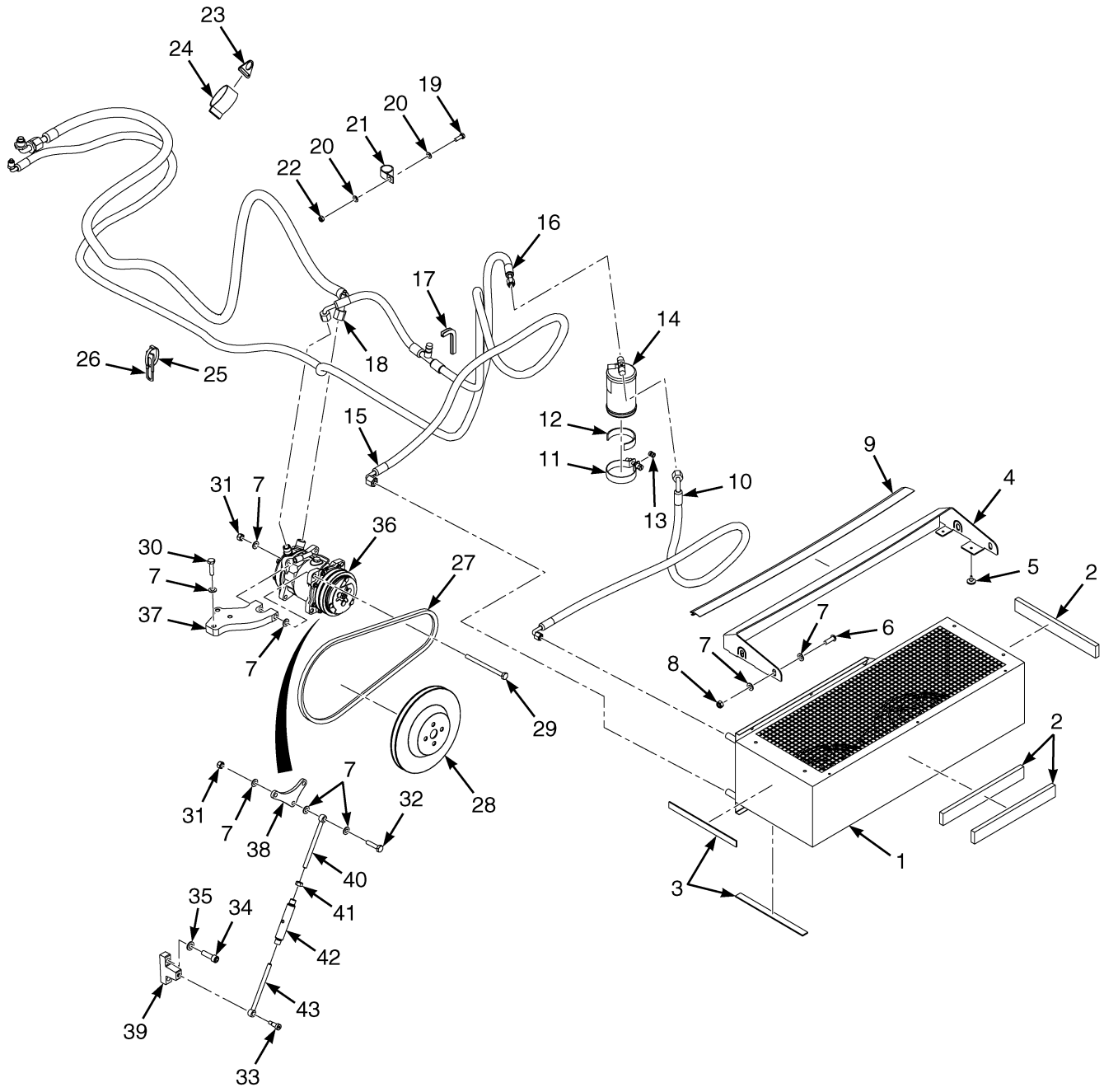
CONDENSER HOSES AND ATTACHING PARTS (FIGURE 1-35)

TIER IV INTERIM ENGINE — ALTERNATE CONFIGURATION



HP121502

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CONDENSER HOSES AND ATTACHING PARTS
TIER IV INTERIM ENGINE – ALTERNATE CONFIGURATION

ITEM	PART NO.	DESCRIPTION	QTY
1	1693236	Condenser (☞Figure 1-37)	1
2	1546460	Foam Tape	AR
3	261156	Foam Tape	AR
4	1614377	Plate	1
5	1450759	Button	6
6	296174	Capscrew	4
7	320159	Washer	20
8	302401	Locknut	4
9	1491360	Seal-Bulk	AR
10	1693232	Hose	1
11	1591591	Bracket	1
12	1652097	Tape	AR
13	1693162	Spacer	2
14	1693804	Air Dryer Assembly	1
14	1695629	Relief Valve	1
15	4017091	Hose (Refrigerant)	1
16	1693234	Hose (Refrigerant)	1
17	2007856	Trim	1
18	~~4023376~~		
	4082407	Hose (Refrigerant)	1
19	136749	Screw	1
20	320157	Washer	2
21	166112	Clamp	2
22	302400	Nut	1
23	1643684	Plate (Strap Clamp)	1
24	1557756	Strap (Static)	2
25	129563	Strap Clamp	AR
26	1350911	Strap	1
27	2080581	V-Belt	1
28	4011217	Pulley	1
29	176801	Capscrew	1
30	292515	Capscrew	3
31	316826	Nut	4
32	292516	Capscrew	3
33	4096126	Bolt	1
34	296043	Capscrew	2
35	320161	Washer	3
36	1689914	Compressor Assembly (MCC) (☞Figure 1-36)	1
37	4067076	Bracket	1
38	4067077	Plate	1
39	4096076	Bracket	1
40	1686689	Eyebolt	1
41	136692	Nut	1
42	4067079	Pipe (Turnbuckle)	1
43	4067080	Eyebolt	1
	a 4133048	Wire , Resistor (Airco Switch, Side Console)	1
	a 114312	Strap Clamp	1

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FOOTNOTES:

a Not Illustrated

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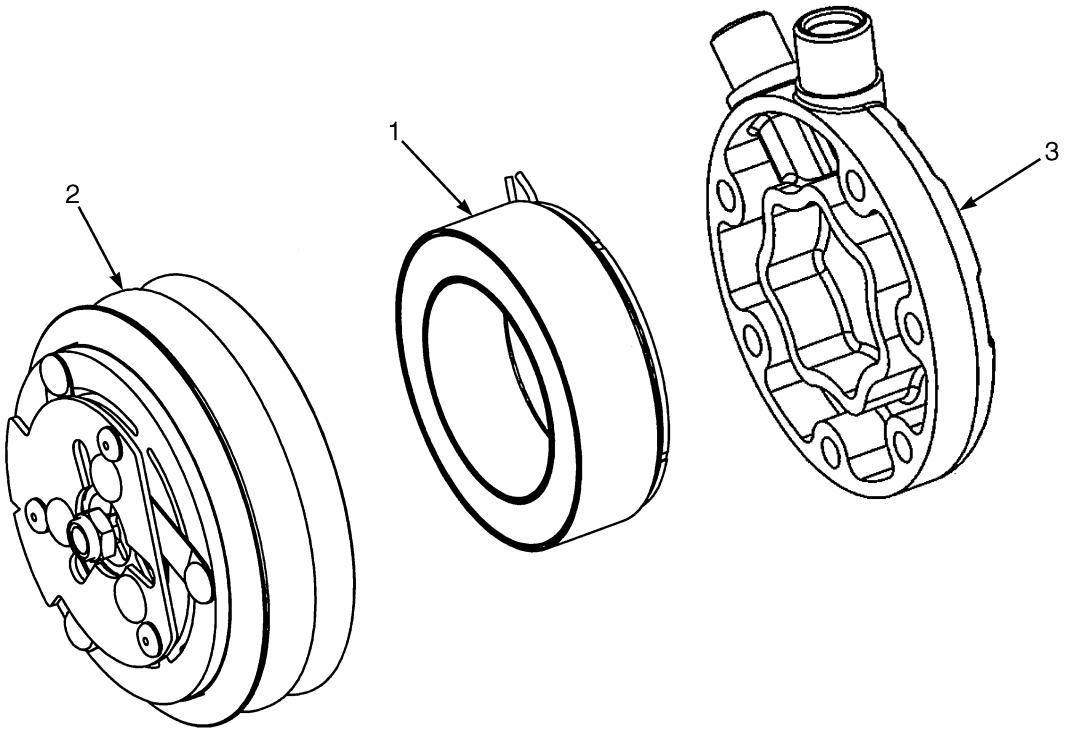
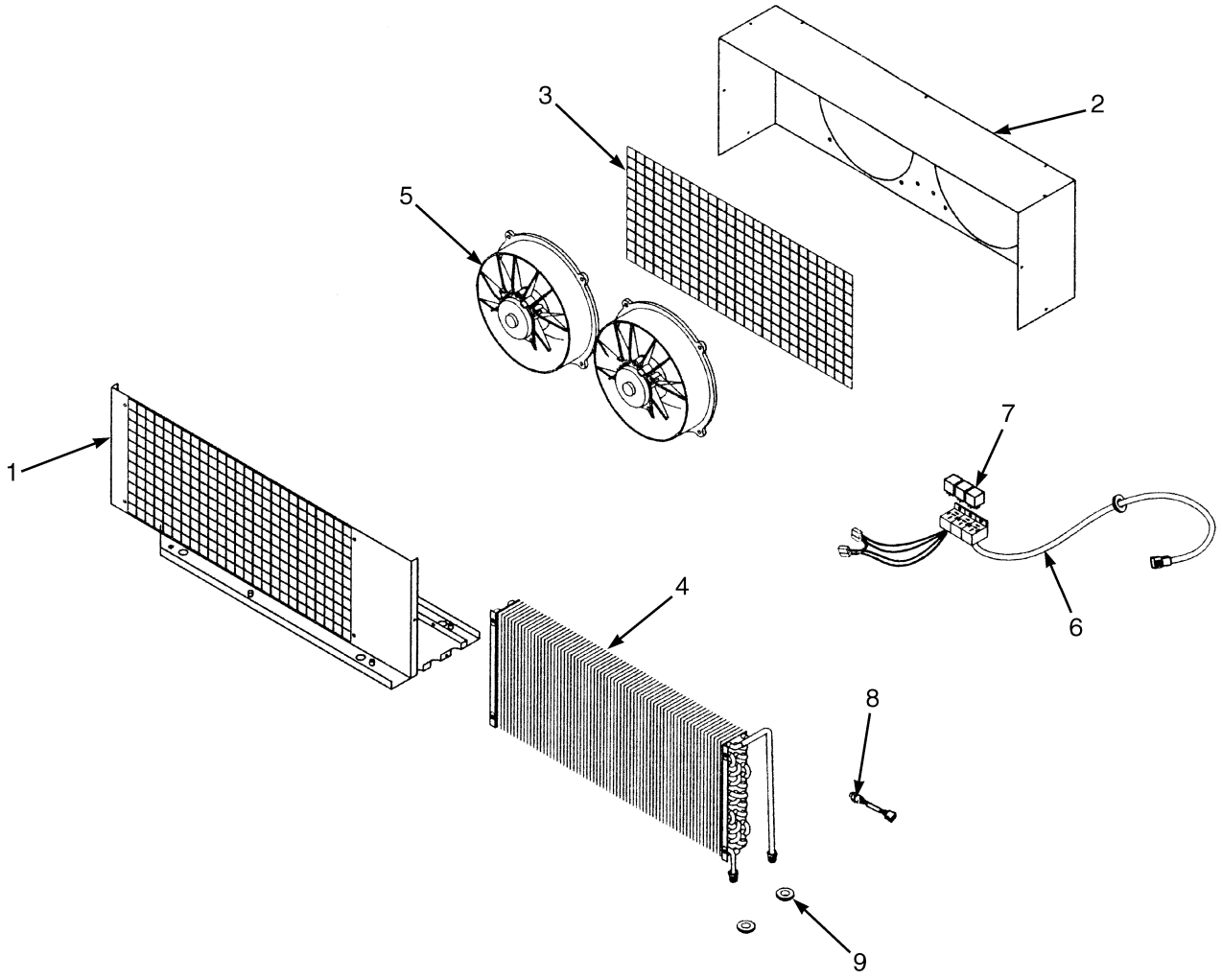
COMPRESSOR ASSEMBLY (FIGURE 1-36)
WITH TWO-FAN CONDENSER SYSTEM



HP121196

ITEM	PART NO.	DESCRIPTION	QTY
	1689914	Compressor Assembly (MCC)	1
1	. . . . .	Coil	1
2	4001308	Clutch Assy	1
3	. . . . .	Mainfold	1

CONDENSER ASSEMBLY (FIGURE 1-37)



HP121297

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CONDENSER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1693236	Condenser	1
1	. . . . .	Housing	1
2	1564436	Cover	1
3	1564435	Screen	1
4	1564434	Coil (Condenser)	1
5	1564433	Fan (24 Volt)	2
6	1695869	Wire Harness	1
7	1496800	Relay (24 Volt)	3
8	1514712	Pressure Switch (2-Step)	1
9	1564431	Grommet	2

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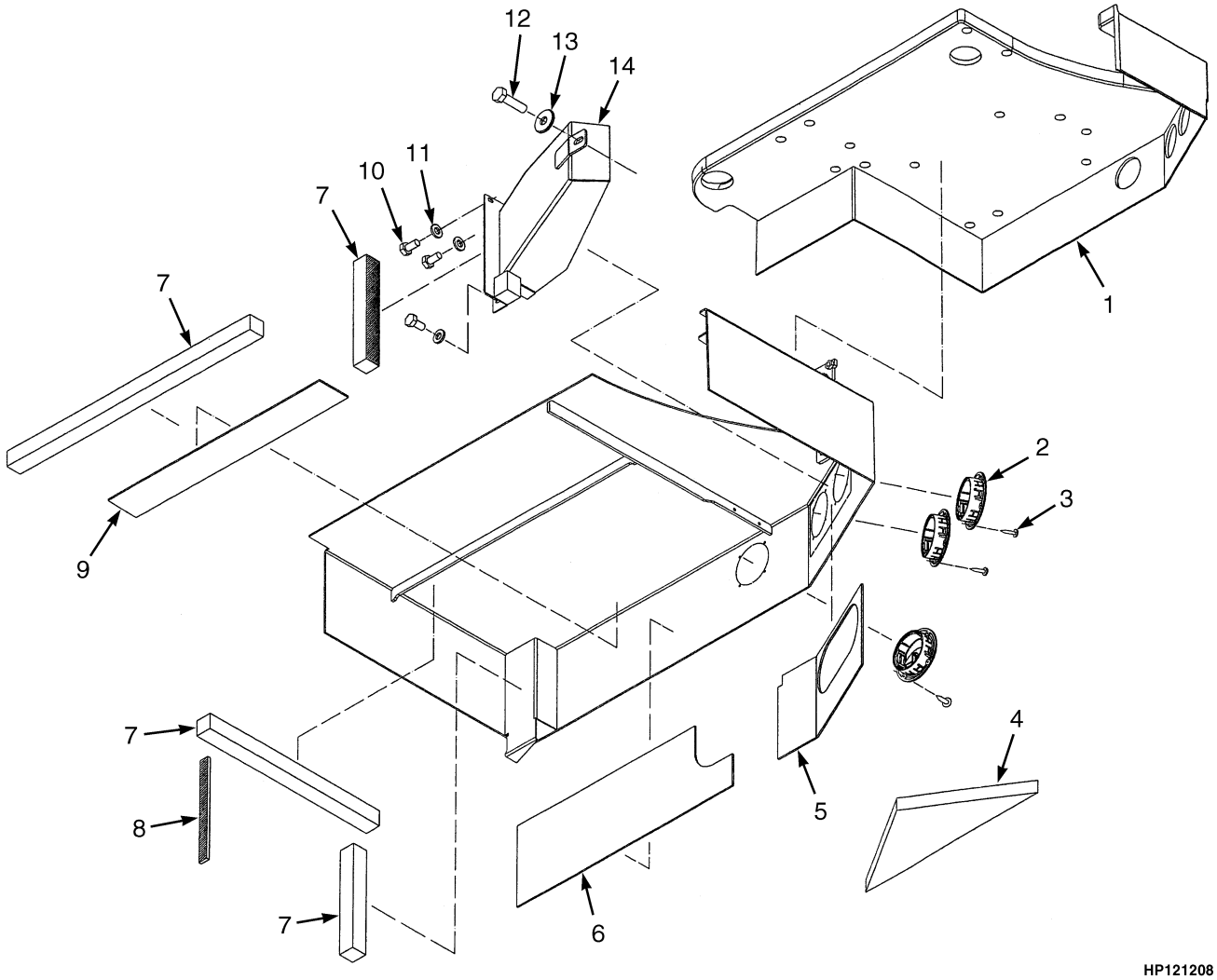
AIR DUCT ASSEMBLY (FIGURE 1-38)
AIR CONDITIONING — WITHOUT CONDENSER



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AIR DUCT ASSEMBLY
AIR CONDITIONING – WITHOUT CONDENSER

ITEM	PART NO.	DESCRIPTION	QTY
	1702293	Air Duct Assembly	1
1	4002525	Floormat	1
2	1598398	Louver (Air)	3
3	1492163	Screw	12
4	4002524	Insulation	1
5	4002522	Insulation	1
6	4002521	Insulation	1
7	4000919	Foam	AR
8	4000920	Foam	AR
9	4002523	Insulation	1
10	4000918	Screw	3
11	320156	Washer	3
12	292501	Capscrew	1
13	1476421	Washer	1
14	4002520	Air Duct	1

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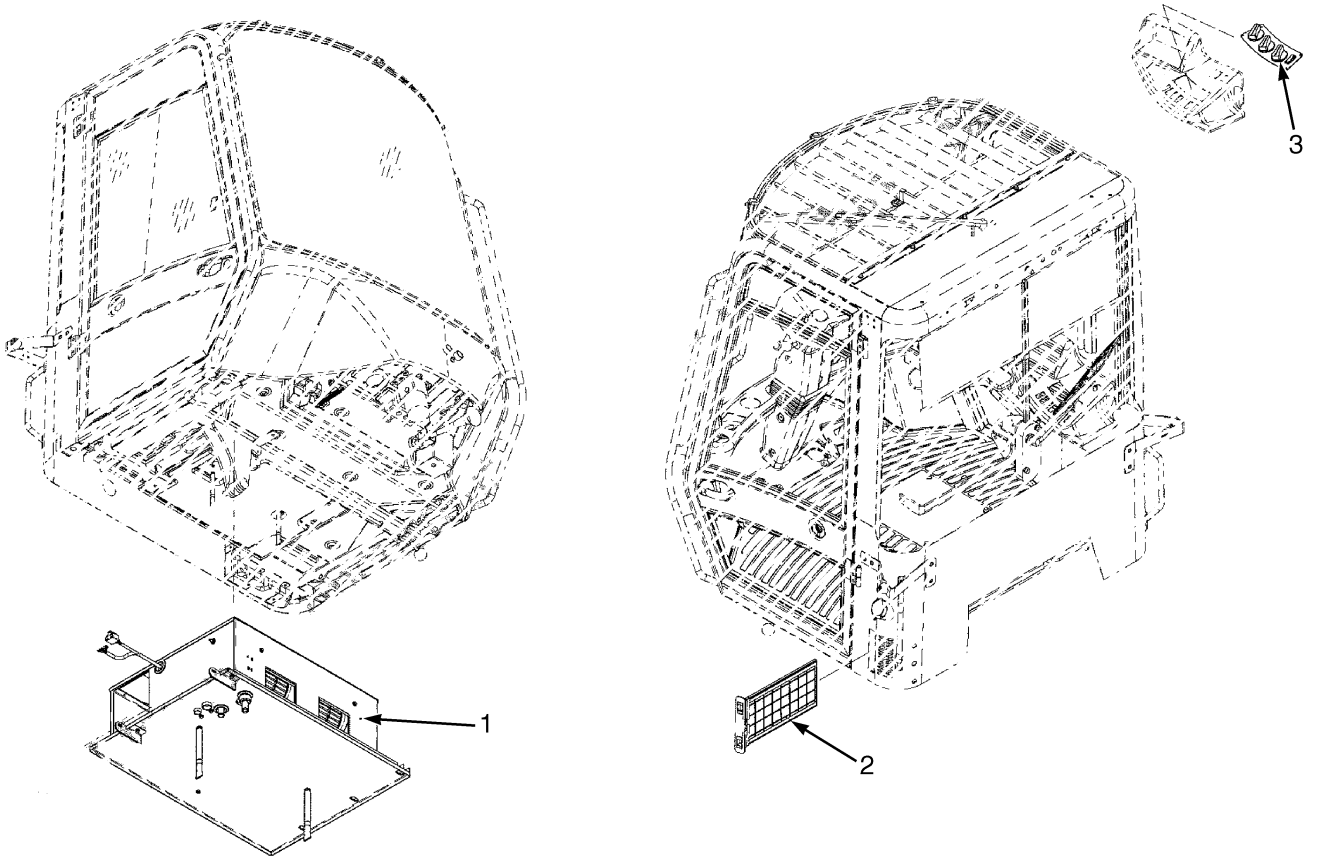
AIR CONDITIONER SYSTEM (FIGURE 1-39)
WITHOUT CONDENSER



HP121182

ITEM	PART NO.	DESCRIPTION	QTY
	a 1702289	Air Conditioner Assembly	1
	b	Air Conditioner Assembly	1
1	**a** 1702562	Air Conditioner Assembly (MCC) (☞Figure 1-40).....	1
1	**b** 4054233	Air Conditioner Assembly (MCC) (☞Figure 1-41).....	1
2	1493276	Air Filter	1
3	**a** 1702563	Control Panel Assembly, Air Conditioner (MCC) (☞Figure 1-42).....	1
3	**b** 4054234	Control Panel Assembly, Heater and Air Conditioner (MCC)	1

FOOTNOTES:

a → 12/2012

b 12/2012 →

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NOTES

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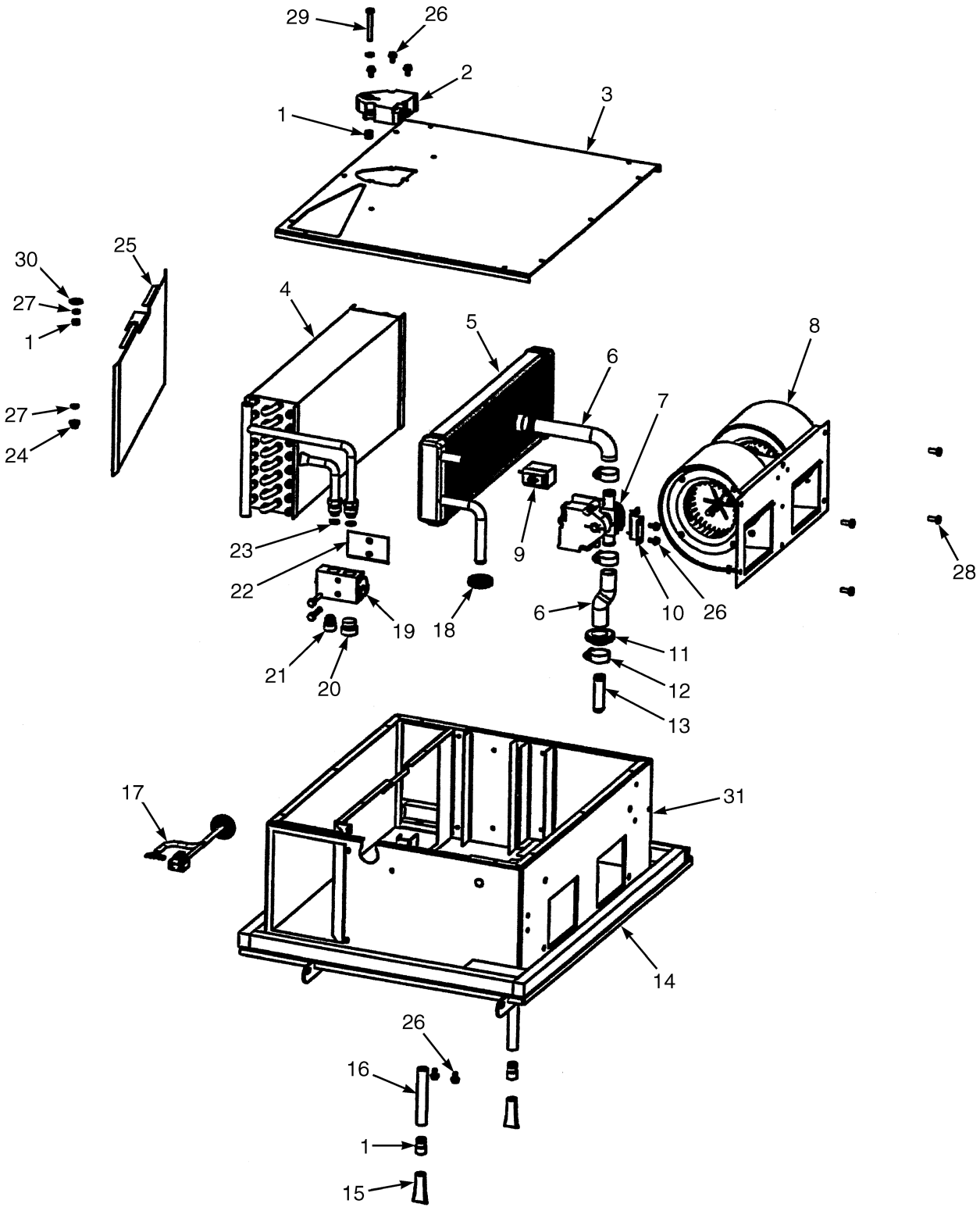
AIR CONDITIONER ASSEMBLY (FIGURE 1-40)

WITHOUT CONDENSER (→ 12/2012)



HP121205

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AIR CONDITIONER ASSEMBLY
WITHOUT CONDENSER (→ 12/2012)

ITEM	PART NO.	DESCRIPTION	QTY
	1702562	Air Conditioner Assembly (MCC)	1
1	4003095	Connector	2
2	4003081	Actuator (Motor)	1
3	4003085	Cover	1
4	4003090	Coil (Evaporator)	1
5	4003091	Core (Heater Coil)	1
6	4003089	Hose	1
7	1510538	Valve (Motorized)	1
8	4003083	Blower	1
8	4095373	Resistor	1
9	4003082	Thermostat	1
10	4003098	Bracket	1
11	1487953	Grommet	1
12	1487950	Hose Clamp	4
13	1487952	Tube (Copper)	1
14	4003084	Case (Bottom Cover)	1
15	~~4003094~~		
	4054237	Drain Valve	2
16	~~4003096~~		
	4058540	Hose-Bulk (M)	AR
17	4003097	Wire Harness (AC)	1
18	4003088	Grommet	1
19	1487945	Valve (Block)	1
20	4003093	Plug	1
21	4003092	Plug	1
22	4003087	Bracket	1
23	1487122	O-Ring	1
24	1487963	Bushing	1
25	4003086	Cover Plate (Flapper)	1
26	. . . . .	Bolt	7
27	. . . . .	Washer	5
28	. . . . .	Bolt	4
29	. . . . .	Bolt	1
30	. . . . .	Lockwasher	1
31	. . . . .	Housing	1
	a 1510542	Wire Harness (24V)	1

FOOTNOTES:

a Not Illustrated

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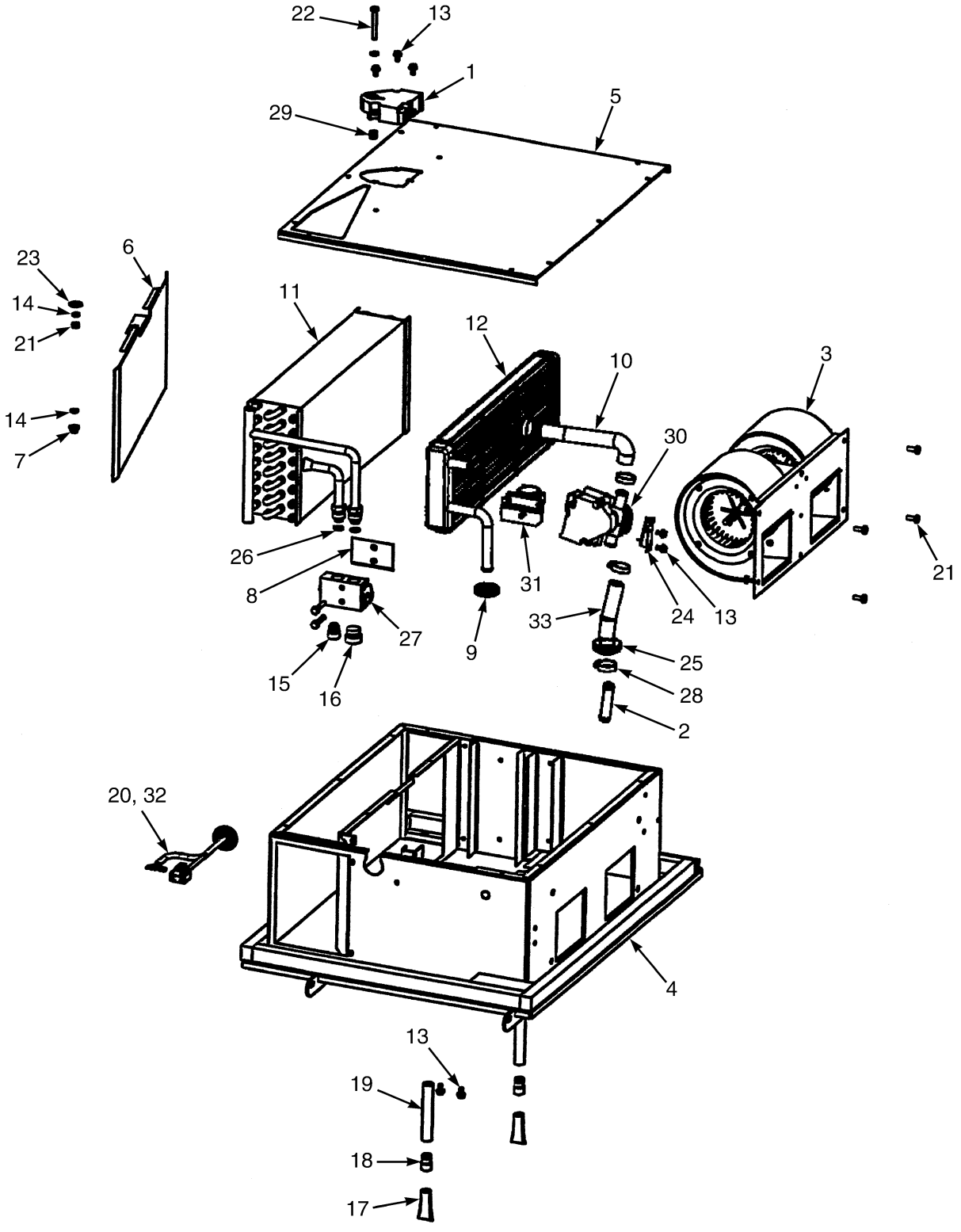
AIR CONDITIONER ASSEMBLY (FIGURE 1-41)

WITHOUT CONDENSER (12/2012 →)



BP121120

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AIR CONDITIONER ASSEMBLY
WITHOUT CONDENSER (12/2012 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4054233	Air Conditioner Assembly (MCC)	1
1	4003081	Actuator (Motor)	1
2	1487952	Tube (Copper)	1
3	4003083	Blower	1
3	4095373	Resistor	1
4	4003084	Case (Bottom Cover)	1
5	4003085	Cover	1
6	4003086	Cover Plate (Flapper)	1
7	1487963	Bushing	1
8	4003087	Bracket	1
9	4003088	Grommet	1
10	4095218	Hose	1
11	4003090	Coil (Evaporator)	1
12	4003091	Core (Heater Coil)	1
13	4054235	Screw	1
14	4054236	Washer	1
15	4003092	Plug	1
16	4003093	Plug	1
17	~~4003094~~		
	4054237	Drain Valve	1
18	4003095	Connector	1
19	~~4003096~~		
	4058540	Hose	1
20	4054238	Wire Harness (Water Valve)	1
21	4054239	Screw	4
22	4054240	Screw	1
23	4054241	Lockwasher	1
24	4054242	Bracket (Water Valve)	1
25	1487953	Grommet	1
26	1487122	O-Ring	2
27	1487945	Valve (Block)	1
28	4161644	Hose Clamp	4
29	4054244	Nut	1
30	4054245	Valve , Water	1
31	4054246	Kit -Thermostat	1
32	4003097	Wire Harness (AC)	1
33	4095219	Hose	1

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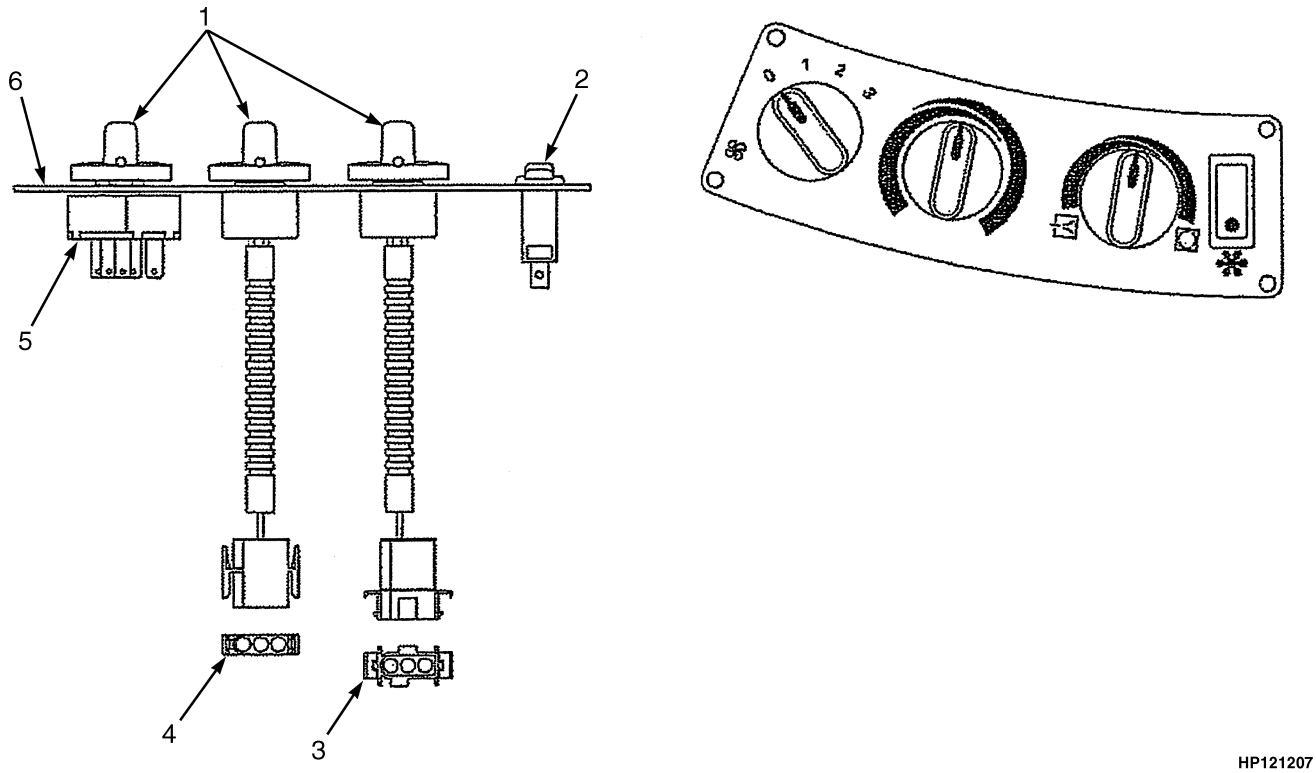
CONTROL PANEL ASSEMBLY (FIGURE 1-42)

WITHOUT CONDENSER (→ 12/2012)



HP121207

ITEM	PART NO.	DESCRIPTION	QTY
	1702563	Control Panel Assembly, Air Conditioner (MCC)	1
1	1487957	Knob	3
2	4004308	Switch (Rocker, 24V)	1
3	4004309	Potentiometer (10K Flapper)	1
4	4004310	Potentiometer (10K Temperature)	1
5	1487956	Switch , Blower (with Nut)	1
6	~~4004307~~		
	4054247	Plate	1

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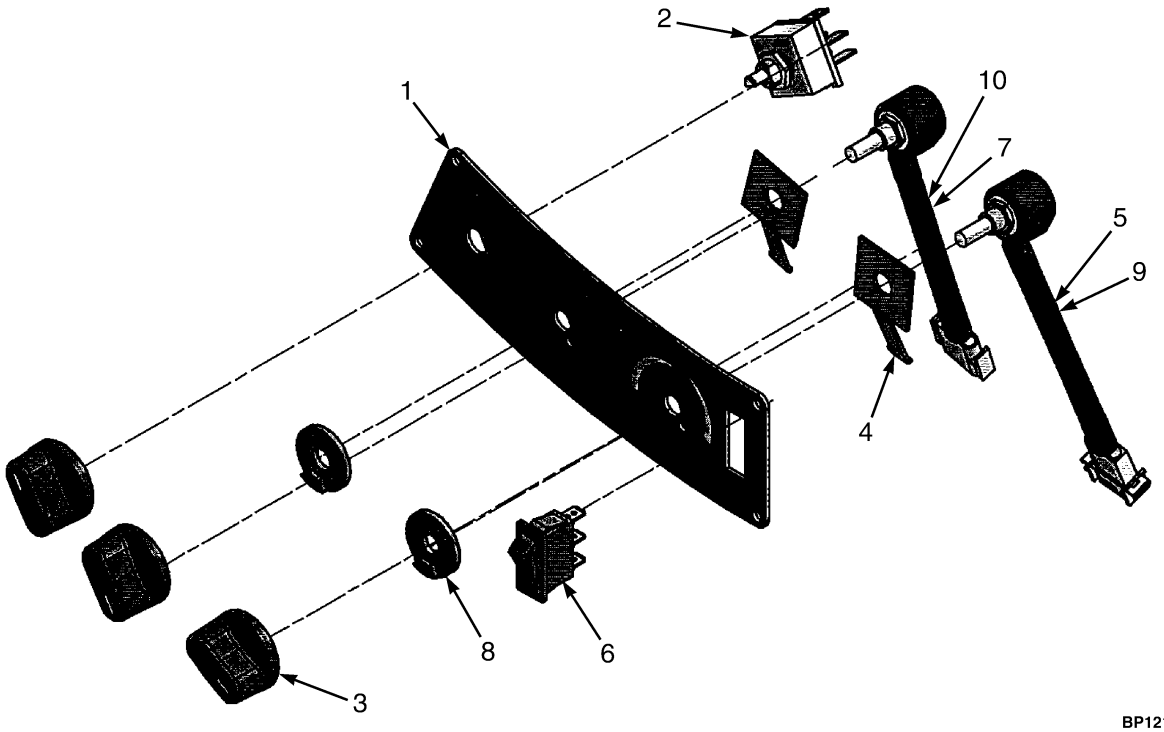
CONTROL PANEL ASSEMBLY (FIGURE 1-43)
WITHOUT CONDENSER (12/2012 →)



BP121121

ITEM	PART NO.	DESCRIPTION	QTY
	4054234	Control Panel Assembly, Heater and Air Conditioner (MCC)	1
1	~~4004307~~		
	4054247	Plate	1
2	1487956	Switch , Blower (with Nut)	1
3	4054248	Knob (With Stop Wedge)	3
4	4054249	Bracket	2
5	4054250	Wire Harness (Includes Stop Washer)	1
6	4004308	Switch (Rocker, 24V)	1
7	4054251	Wire Harness (Includes Stop Washer)	1
8	4054252	Washer , Stop	1
9	4054253	Kit -Potentiometer Assy (With Stop Washer and Knob) (Includes Stop Wedge)	1
10	4054254	Kit -Potentiometer Assy (With Stop Washer and Knob) (Includes Stop Wedge)	1

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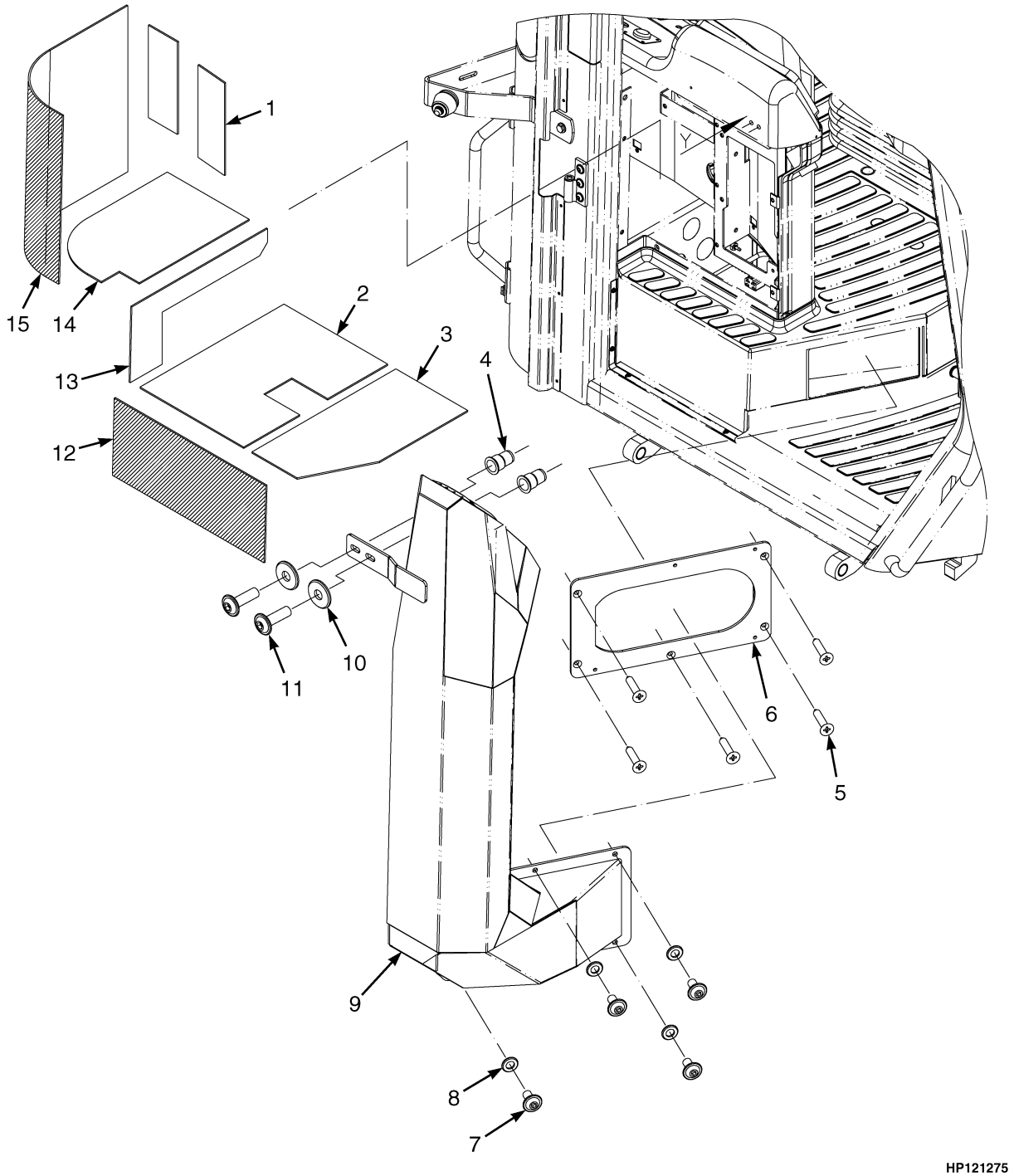
INSULATION MATS AND AIR DUCT (FIGURE 1-44)
CLIMATE CONTROL CAB



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INSULATION MATS AND AIR DUCT
CLIMATE CONTROL CAB

ITEM	PART NO.	DESCRIPTION	QTY
1	4021193	Insulation Mat (Air Duct)	2
2	4021205	Insulation Mat (Rear Floor Plate)	1
3	4021206	Insulation Mat (Front Floor Plate)	1
4	4021199	Nut	2
5	4021197	Screw	5
6	4021207	Adapter	1
7	4021198	Screw	4
8	1508258	Washer	4
9	4021196	Air Duct Assembly (☞Figure 1-45)	1
10	1468321	Washer (Plastic)	2
11	4021200	Screw	2
12	4021204	Insulation Mat (RH Floor Plate)	1
13	4021203	Insulation	1
14	4021202	Insulation Mat (Top Floor Plate)	1
15	4021201	Insulation Mat (Rear Panel)	1

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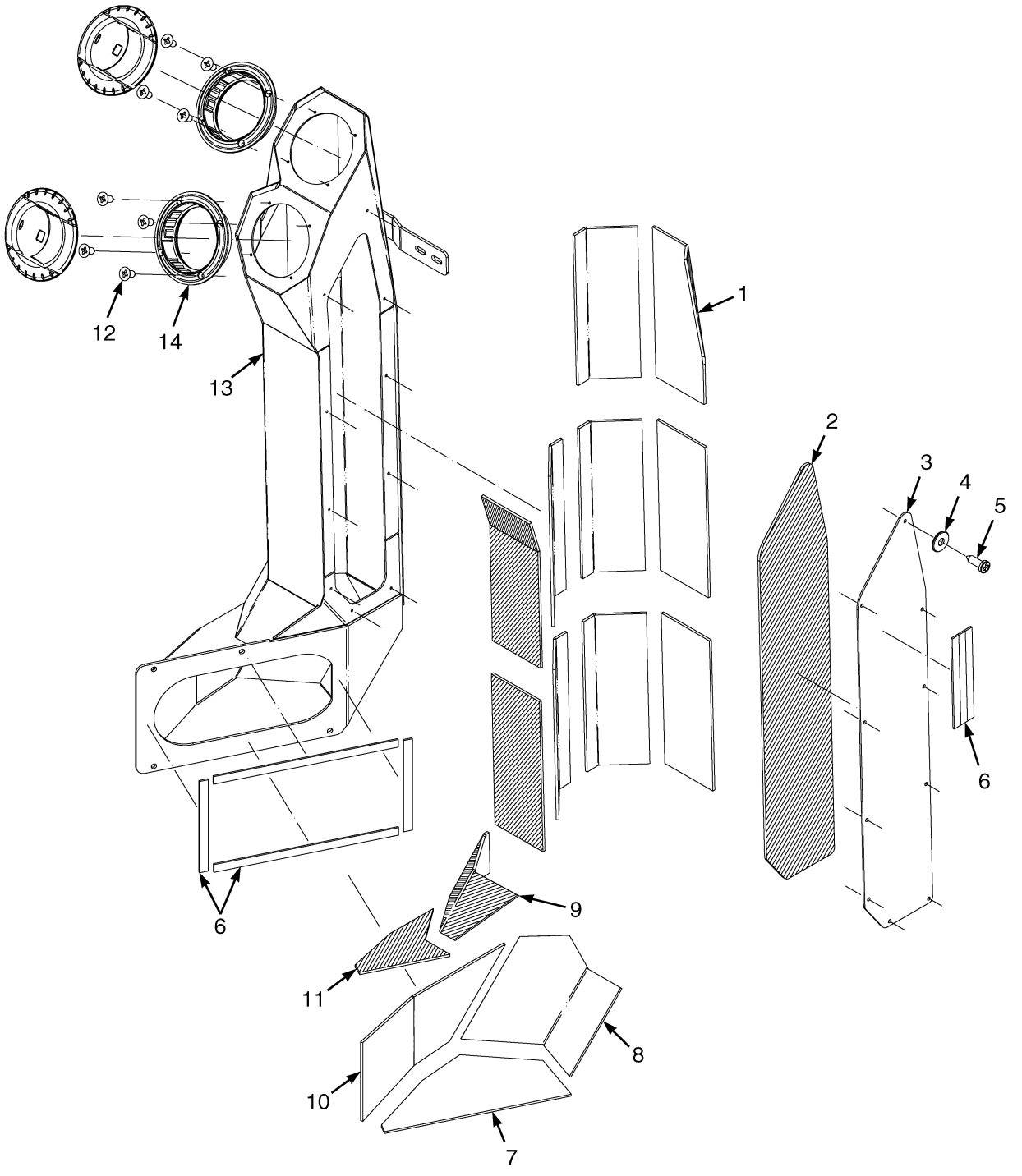
AIR DUCT (FIGURE 1-45)
LOUVER, CLIMATE CONTROL CAB



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AIR DUCT
LOUVER, CLIMATE CONTROL CAB

ITEM	PART NO.	DESCRIPTION	QTY
	4021196	Air Duct Assembly	1
1	4021193	Insulation Mat (Air Duct)	10
2	4021187	Insulation Mat (Air Duct Cover)	1
3	4021186	Cover Plate	1
4	1492140	Washer	10
5	4021188	Screw	10
6	4021195	Seal	AR
7	4021189	Insulation Mat (Air Cowl, Bottom)	1
8	4021192	Insulation Mat (Air Cowl, RH)	1
9	4021194	Insulation Mat (Air Cowl, Top)	1
10	4021190	Insulation Mat (Air Cowl, LH)	1
11	4021191	Insulation Mat (Air Cowl, Top)	1
12	1498363	Screw	8
13	. . . . .	Air Duct	1
14	1598398	Louver (Air)	2

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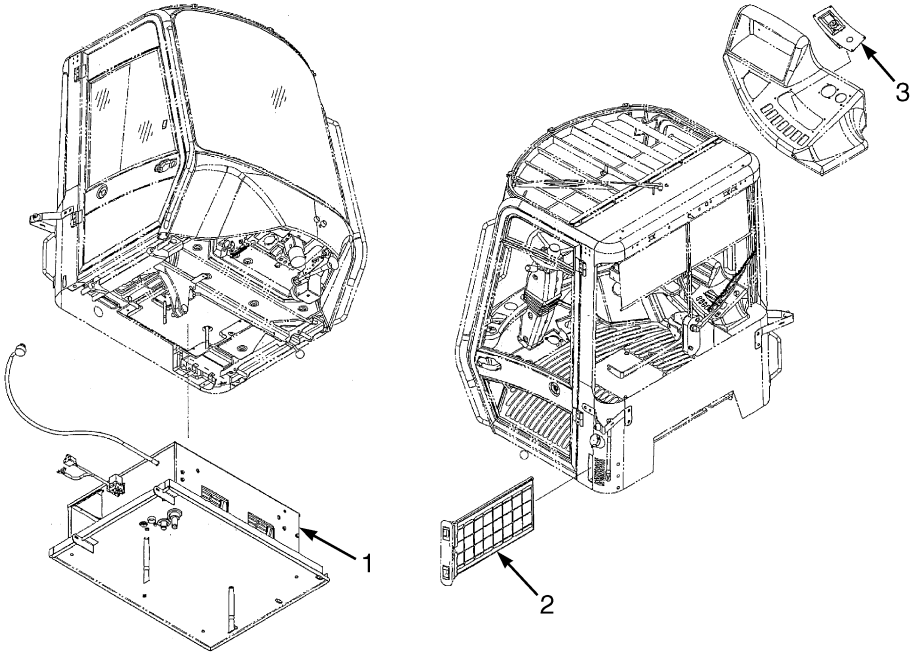
AIR CONDITIONER SYSTEM (FIGURE 1-46)
CLIMATE CONTROL CAB



HP121282

ITEM	PART NO.	DESCRIPTION	QTY
	4009593	Air Conditioner System	1
1	4009597	Air Conditioner Assembly (MCC) (☞Figure 1-47).....	1
2	1493276	Air Filter	1
3	4009598	Control Panel Assembly (Climate Control) (☞Figure 4-76).....	1

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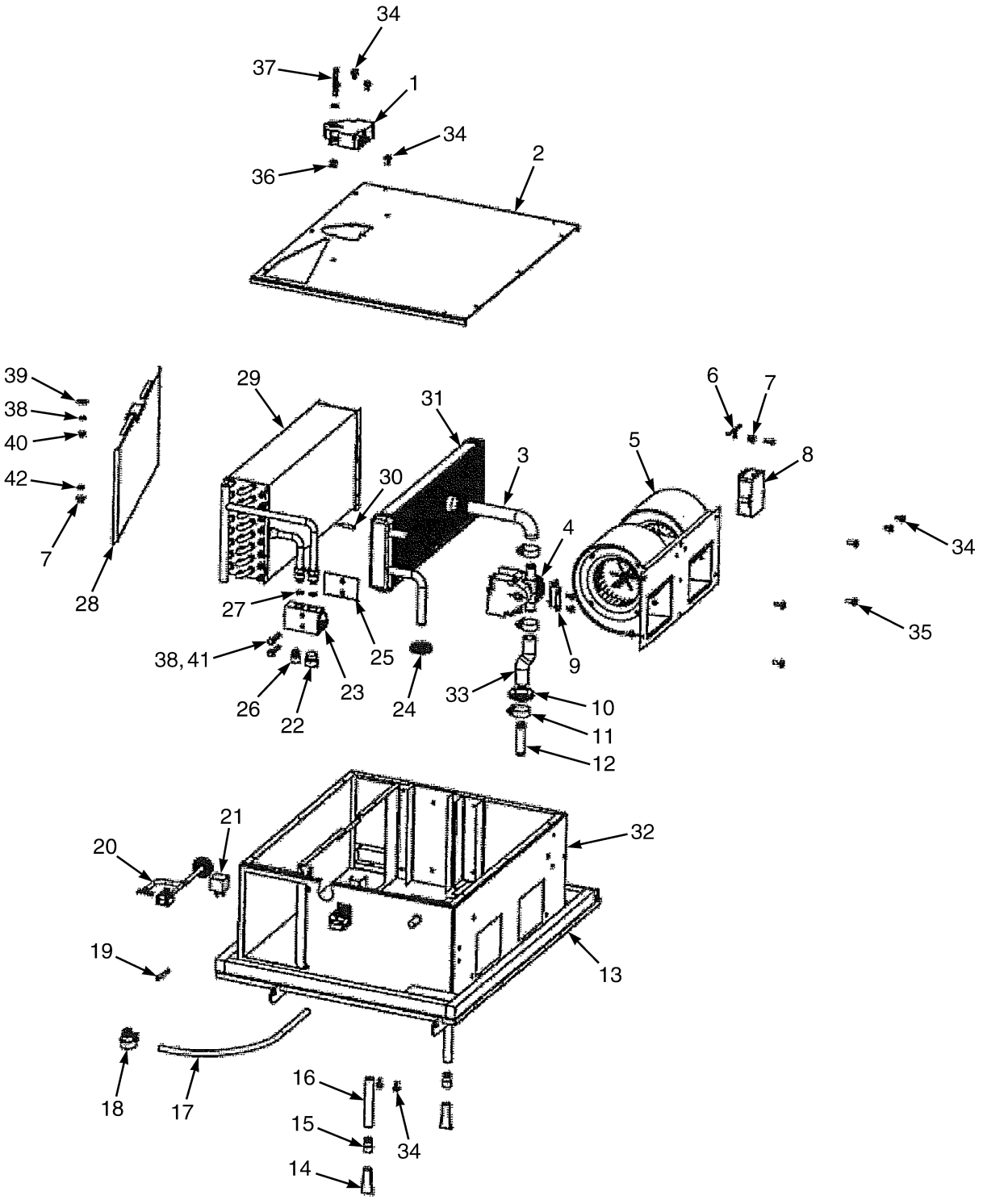
AIR CONDITIONER (FIGURE 1-47)
CLIMATE CONTROL CAB



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AIR CONDITIONER
CLIMATE CONTROL CAB

ITEM	PART NO.	DESCRIPTION	QTY
	4009597	Air Conditioner Assembly (MCC)	1
1	4003081	Actuator (Motor)	1
2	4003085	Cover	1
3	4095218	Hose	1
4	4020873	Valve (Heater)	1
5	4003083	Blower	1
5	4095373	Resistor	1
6	4020876	Sensor (After Coil)	1
7	1487963	Bushing	2
8	4020875	Motor (Drive Board)	1
9	4003098	Bracket	1
10	1487953	Grommet	1
11	4161644	Hose Clamp	4
12	1487952	Tube (Copper)	1
13	4003084	Case (Bottom Cover)	1
14	~~4003094~~		
	4054237	Drain Valve	2
15	4003095	Connector	2
16	4020874	Hose	2
17	4020881	Hose	1
18	4020879	Sensor (Cab)	1
19	4020878	Sensor (Outside)	1
20	4020877	Wire Harness (ECC)	1
21	1496800	Relay (24 Volt)	1
22	4003093	Plug	1
23	1487945	Valve (Block)	1
24	4003088	Grommet	1
25	4003087	Bracket	1
26	4003092	Plug	1
27	1487122	O-Ring	2
28	4003086	Cover Plate (Flapper)	1
29	4003090	Coil (Evaporator)	1
30	4020880	Sensor (De-Icing)	1
31	4003091	Core (Heater Coil)	1
32	. . . . .	Housing	1
33	4095219	Hose	1
34	4054235	Screw	22
35	4054239	Screw	4
36	4054244	Nut	1
37	4054240	Screw	1
38	4161648	Washer	3
39	4161649	Washer	1
40	4161650	Nut	5
41	4161651	Screw	2
42	4054236	Washer	1

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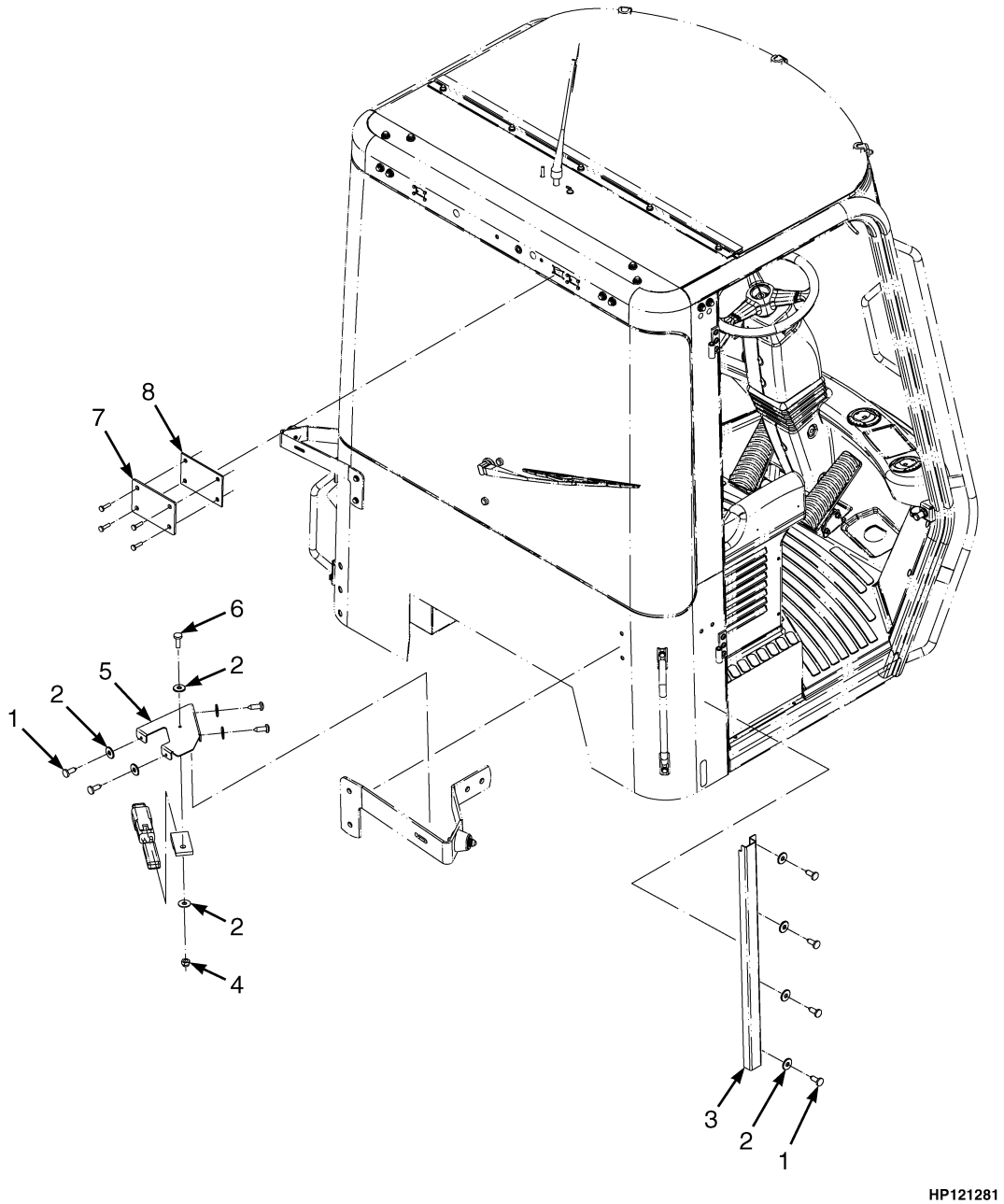
CLIMATE CONTROL SYSTEM ATTACHING PARTS (FIGURE 1-48)



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CLIMATE CONTROL SYSTEM ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1623373	Screw	8
2	1492140	Washer	10
3	4009596	Cover	1
4	4009594	Nut	1
5	4009595	Bracket	1
6	4001205	Screw	1
7	1635007	Plate	1
8	1635008	Seal	1

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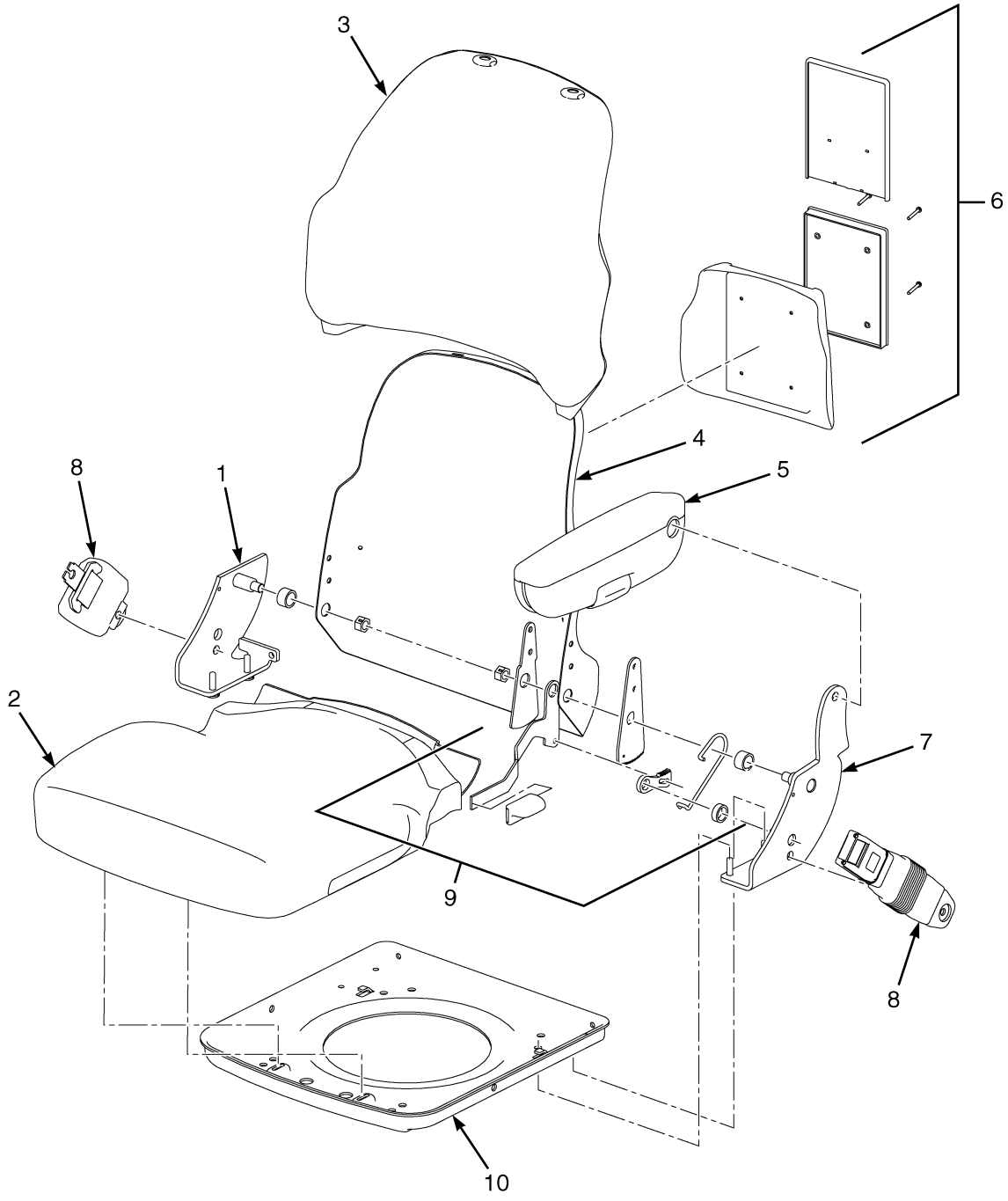
SEAT ASSEMBLY (FIGURE 1-49)
SUSPENSION — WITH FABRIC COVER (→ 3/2010)



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SEAT ASSEMBLY

SUSPENSION – WITH FABRIC COVER (→ 3/2010)

ITEM	PART NO.	DESCRIPTION	QTY
	c ~~1603522~~		
	1692292	Seat Assy (Mechanical Suspension) (Fabric Cover)	1
	c ~~1603524~~		
	1692293	Seat Assy (Air Suspension) (Fabric Cover)	1
	1482798	Seat-Full Suspension (With Armrest)	1
	a 1482915	Spacer	1
	a ~~4048814~~		
	292528	Capscrew	1
	a 1482917	Locknut	4
	a 1615073	Bolt	4
1	1482974	Kit-Bracket (RH)	1
1	1482806	Bracket	1
1	1482917	Locknut	3
1	1482951	Bolt	1
1	1482919	Locknut	2
1	1482924	Screw	2
1	1482952	Clip	2
1	1482953	Strap Clamp	1
2	1615158	Seat Cushion	1
2	1482803	Seat Cushion	1
2	1482952	Clip	2
2	1482953	Strap Clamp	1
3	1482957	Seat Back Cushion Assy, Cloth	1
3	1482802	Cushion	1
3	1482924	Screw	2
4	1482959	Kit-Back Pan	1
4	1615056	Pan	1
4	1482917	Locknut	8
4	1482919	Locknut	2
4	1482924	Screw	2
4	1615057	Bolt	1
4	1482913	Connector	6
5	1482960	Armrest (LH)	1
5	1482804	Armrest	1
5	1482919	Locknut	1
5	~~4048814~~		
	292528	Capscrew	1
5	1482920	Washer	2
5	1482961	Screw	1
6	1470155	Information Case (Kit)	1
6	1482925	Plate (Book Box)	1
6	1482948	Box (Book)	1
6	1482949	Screw	4
6	1482950	Cover	1
7	1482969	Kit-Bracket (LH)	1
7	1482805	Bracket	1
7	1482917	Locknut	3
7	1615057	Bolt	1
7	~~4048814~~		
	292528	Capscrew	1

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SEAT ASSEMBLY

SUSPENSION – WITH FABRIC COVER (→ 3/2010)

ITEM	PART NO.	DESCRIPTION	QTY
7	1482919	Locknut	2
7	1482924	Screw	2
7	1482910	Nut	1
7	1482952	Clip	2
7	1482961	Screw	1
7	1482953	Strap Clamp	1
8	1615062	Kit-Seat Belt	1
8	~~4048814~~		
	292528	Capscrew	1
8	246001	Capscrew	1
8	1615063	Washer	3
8	1615064	Spacer	2
8	1615065	Seat Belt Set	1
9	1482970	Kit-Recliner	1
9	1467531	Knob	1
9	1482904	Lever	1
9	1482905	Plate	1
9	1482906	Latch	1
9	1482907	Cover	1
9	1482908	Spring	1
9	1482909	Spring	1
9	1482919	Locknut	2
9	1615057	Bolt	1
10	1482971	Kit-Seat Pan	1
10	1482801	Seat Pan	1
10	1482917	Locknut	12
10	1482951	Bolt	6
10	1482952	Clip	2
10	1482953	Strap Clamp	1
10	1615057	Bolt	2
10	1482919	Locknut	2
	a 1615066	Kit-Operator Presence System	1
	1615067	Switch (Operator Presence System)	1
	1615068	Wire Harness (Operator Presence System)	1
	1482953	Strap Clamp	2
	1482952	Clip	2
	1558035	Lockwasher	4
	1623187	Armrest Assembly (Hydraulic Levers) (☞Figure 1-61)	1
	1634996	Armrest Assembly (Joystick) (☞Figure 1-60)	1
	a 1571627	Armrest Assembly (Pivot Arm) (☞Figure 1-59)	1
	a 1476584	Cover (Capscrew Head)	4
	a 136681	Capscrew	4
	1561530	Kit-Back/Headrest Cushion	1
	b 1615147	Kit-Back/Headrest Cushion (☞Figure 1-52)	1

FOOTNOTES:

a Not Illustrated
b Not Included with Seat
c Used with Closed Cab Only

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NOTES

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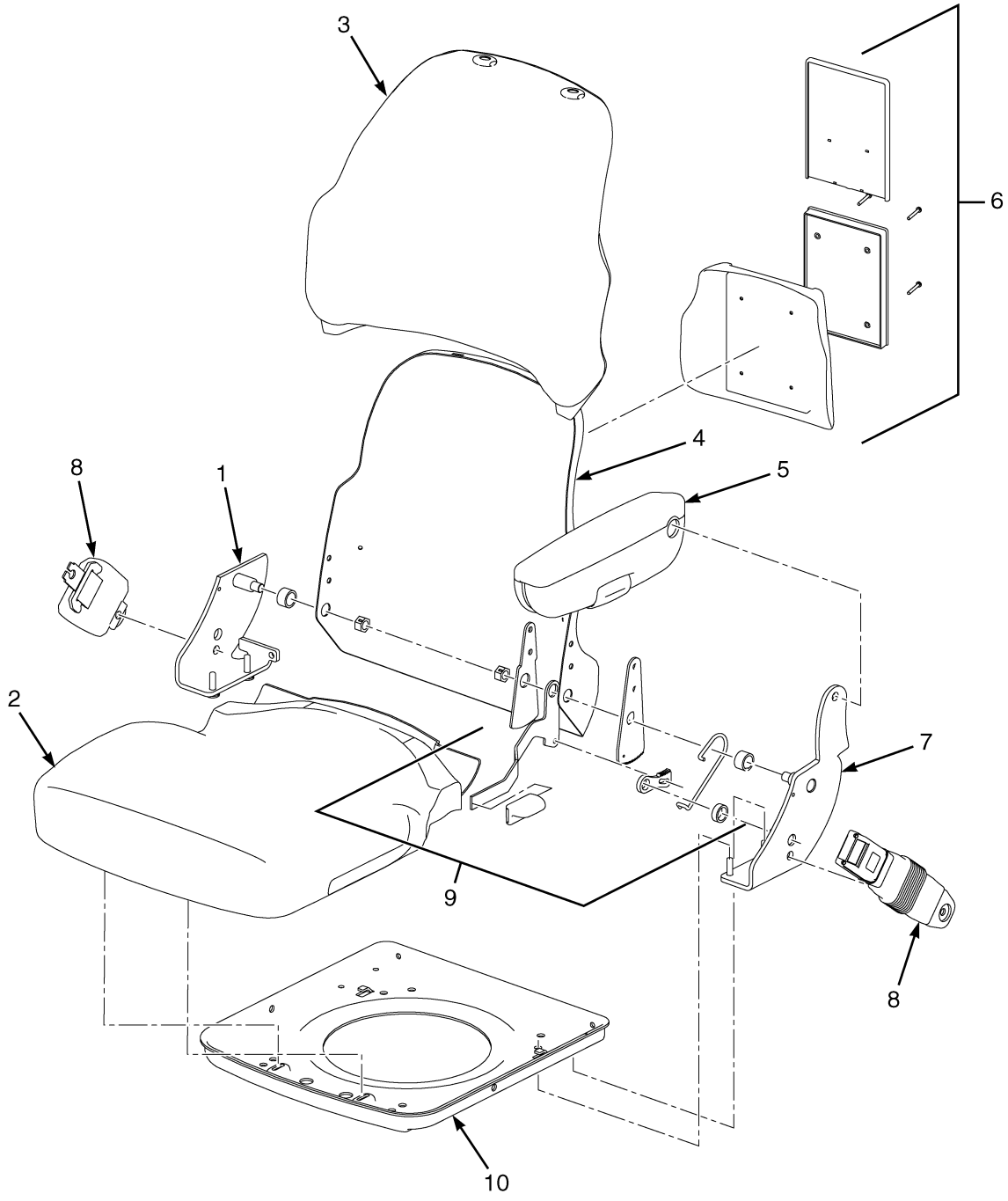
SEAT ASSEMBLY (FIGURE 1-50)

SUSPENSION — WITH FABRIC COVER (3/2010 →)



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SEAT ASSEMBLY

SUSPENSION – WITH FABRIC COVER (3/2010 →)

ITEM	PART NO.	DESCRIPTION	QTY
	~~1603522~~		
	1692292	Seat Assy (Mechanical Suspension) (Fabric Cover)	1
	~~1603524~~		
	1692293	Seat Assy (Air Suspension) (Fabric Cover)	1
	4104409	Seat Assy - Full Suspension (Cloth)	1
	a ~~4048814~~		
	292528	Capscrew	1
	a 1482917	Locknut	4
	a 1615073	Bolt	4
1	1482974	Kit-Bracket (RH)	1
1	1482806	Bracket	1
1	1482917	Locknut	3
1	1482951	Bolt	1
1	1482919	Locknut	2
1	1482924	Screw	2
1	1482952	Clip	2
1	1482953	Strap Clamp	1
2	4104375	Kit-Seat Cushion (Gray Cloth, Seat)	1
2	1482952	Clip	2
2	1482953	Strap Clamp	1
3	4104373	Kit-Seat Cushion (Gray Cloth, Back)	1
3	1482924	Screw	2
4	1482959	Kit-Back Pan	1
4	1615056	Pan	1
4	1482917	Locknut	8
4	1482919	Locknut	2
4	1482924	Screw	2
4	1615057	Bolt	1
4	1482913	Connector	6
5	1482960	Armrest (LH)	1
5	1482804	Armrest	1
5	1482919	Locknut	1
5	~~4048814~~		
	292528	Capscrew	1
5	1482920	Washer	2
5	1482961	Screw	1
6	1470155	Information Case (Kit)	1
6	1482925	Plate (Book Box)	1
6	1482948	Box (Book)	1
6	1482949	Screw	4
6	1482950	Cover	1
7	1482969	Kit-Bracket (LH)	1
7	1482805	Bracket	1
7	1482917	Locknut	3
7	1615057	Bolt	1
7	~~4048814~~		
	292528	Capscrew	1
7	1482919	Locknut	2
7	1482924	Screw	2
7	1482910	Nut	1

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SEAT ASSEMBLY

SUSPENSION – WITH FABRIC COVER (3/2010 →)

ITEM	PART NO.	DESCRIPTION	QTY
7	1482952	Clip	2
7	1482961	Screw	1
7	1482953	Strap Clamp	1
8	1615062	Kit-Seat Belt	1
8	~~4048814~~		
	292528	Capscrew	1
8	246001	Capscrew	1
8	1615063	Washer	3
8	1615064	Spacer	2
8	1615065	Seat Belt Set	1
9	1482970	Kit-Recliner	1
9	1467531	Knob	1
9	1482904	Lever	1
9	1482905	Plate	1
9	1482906	Latch	1
9	1482907	Cover	1
9	1482908	Spring	1
9	1482909	Spring	1
9	1482919	Locknut	2
9	1615057	Bolt	1
10	1482971	Kit-Seat Pan	1
10	1482801	Seat Pan	1
10	1482917	Locknut	12
10	1482951	Bolt	6
10	1482952	Clip	2
10	1482953	Strap Clamp	1
10	1615057	Bolt	2
10	1482919	Locknut	2
	a 1615066	Kit-Operator Presence System	1
	1615067	Switch (Operator Presence System)	1
	1615068	Wire Harness (Operator Presence System)	1
	1482953	Strap Clamp	2
	1482952	Clip	2
	a 4051407	Wire Harness	1
	a 4104380	Kit-Back/Headrest Cushion (Optional)	1
	4104373	Kit-Seat Cushion (Gray Cloth, Back)	1
	b 4104384	Kit Head Rest, Cloth (☞Figure 1-52)	1

FOOTNOTES:

a Not Illustrated

b Not included with Seat

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NOTES

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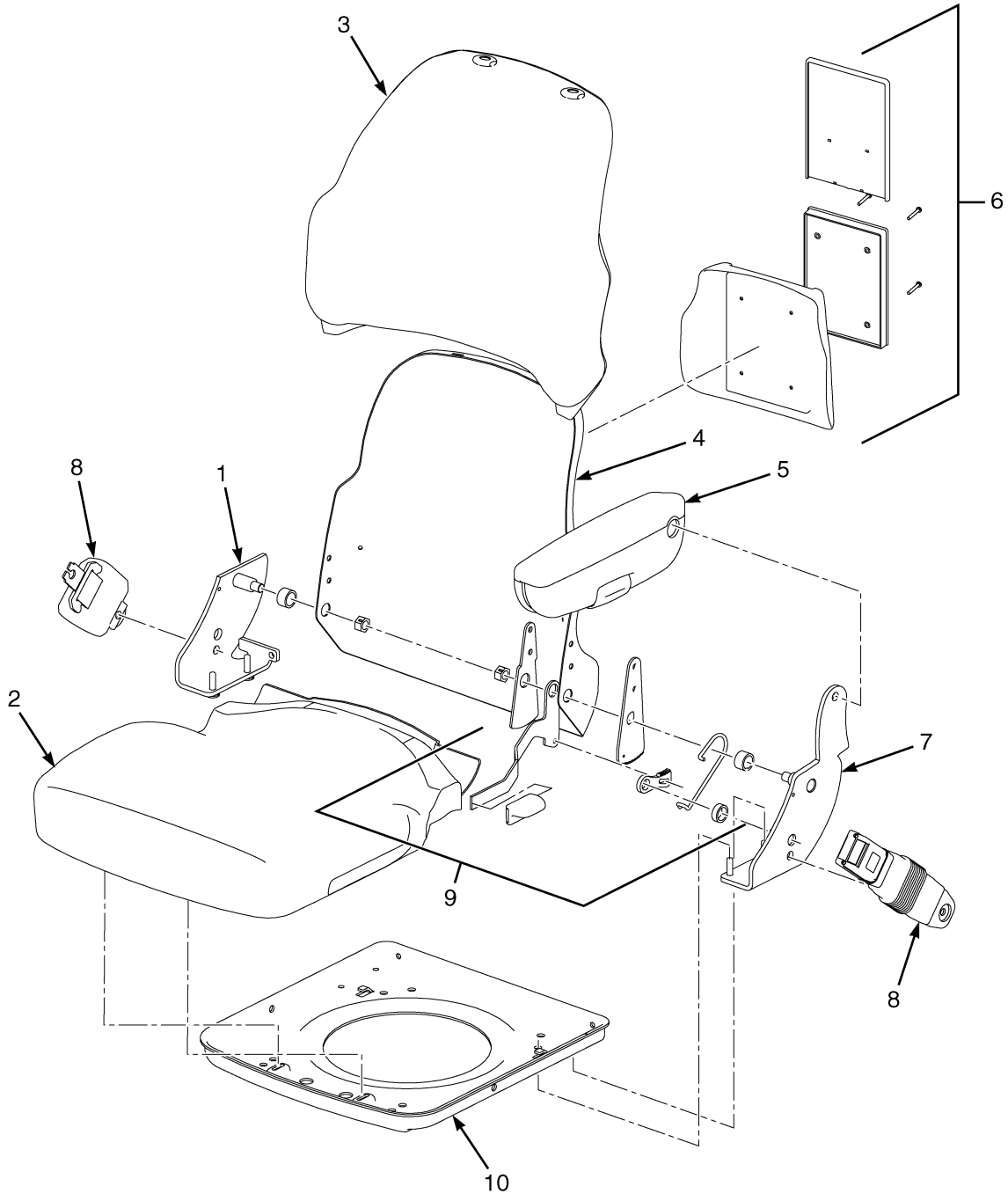
SEAT ASSEMBLY (FIGURE 1-51)
SUSPENSION — WITH VINYL COVER



HP121533

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SEAT ASSEMBLY
SUSPENSION – WITH VINYL COVER

ITEM	PART NO.	DESCRIPTION	QTY
	1603521	Seat-Full Suspension (Mechanical Suspension) (Vinyl Cover)	1
	1603523	Seat-Full Suspension (Air Suspension) (Vinyl Cover)	1
	1482954	Seat Assy-Full Suspension - Top Assy With Arm (Vinyl)	1
	a 1482915	Spacer	1
	a ~~4048814~~		
	292528	Capscrew	1
	a 1482917	Locknut	4
	a 1615073	Bolt	4
1	1482974	Kit-Bracket (RH)	1
1	1482806	Bracket	1
1	1482917	Locknut	3
1	1482951	Bolt	1
1	1482919	Locknut	2
1	1482924	Screw	2
1	1482952	Clip	2
1	1482953	Strap Clamp	1
2	1615055	Seat Cushion Assembly (Vinyl, Seat)	1
2	1482952	Clip	2
2	1482953	Strap Clamp	1
3	1482958	Seat Back Cushion Assy, Vinyl	1
3	1482955	Seat Cushion	1
3	1482924	Screw	2
4	1482959	Kit-Back Pan	1
4	1615056	Pan	1
4	1482917	Locknut	8
4	1482919	Locknut	2
4	1482924	Screw	2
4	1615057	Bolt	1
4	1482913	Connector	6
5	1482960	Armrest (LH)	1
5	1482804	Armrest	1
5	1482919	Locknut	1
5	~~4048814~~		
	292528	Capscrew	1
5	1482920	Washer	2
5	1482961	Screw	1
6	1470155	Information Case (Kit)	1
6	1482925	Plate (Book Box)	1
6	1482948	Box (Book)	1
6	1482949	Screw	4
6	1482950	Cover	1
7	1482969	Kit-Bracket (LH)	1
7	1482805	Bracket	1
7	1482917	Locknut	3
7	1615057	Bolt	1
7	~~4048814~~		
	292528	Capscrew	1
7	1482919	Locknut	2
7	1482924	Screw	2
7	1482910	Nut	1

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SEAT ASSEMBLY
SUSPENSION – WITH VINYL COVER

ITEM	PART NO.	DESCRIPTION	QTY
7	1482952	Clip	2
7	1482961	Screw	1
7	1482953	Strap Clamp	1
8	1615062	Kit-Seat Belt	1
8	~~4048814~~		
	292528	Capscrew	1
8	246001	Capscrew	1
8	1615063	Washer	3
8	1615064	Spacer	2
8	1615065	Seat Belt Set	1
9	1482970	Kit-Recliner	1
9	1467531	Knob	1
9	1482904	Lever	1
9	1482905	Plate	1
9	1482906	Latch	1
9	1482907	Cover	1
9	1482908	Spring	1
9	1482909	Spring	1
9	1482919	Locknut	2
9	1615057	Bolt	1
10	1482971	Kit-Seat Pan	1
10	1482801	Seat Pan	1
10	1482917	Locknut	12
10	1482951	Bolt	6
10	1482952	Clip	2
10	1482953	Strap Clamp	1
10	1615057	Bolt	2
10	1482919	Locknut	2
	1615066	Kit-Operator Presence System	1
	1615067	Switch (Operator Presence System)	1
	1615068	Wire Harness (Operator Presence System)	1
	1482953	Strap Clamp	2
	1482952	Clip	2
	1558035	Lockwasher	4
	1623187	Armrest Assembly (Hydraulic Levers) (☞Figure 1-61)	1
	1634996	Armrest Assembly (Joystick) (☞Figure 1-60)	1
	1571627	Armrest Assembly (Pivot Arm) (☞Figure 1-59)	1
	1476584	Cover (Capscrew Head)	4
	136681	Capscrew	4
	b 1615150	Kit-Back/Headrest Cushion , Vinyl (☞Figure 1-52)	1

FOOTNOTES:

a Not Illustrated

b Not Included with Seat

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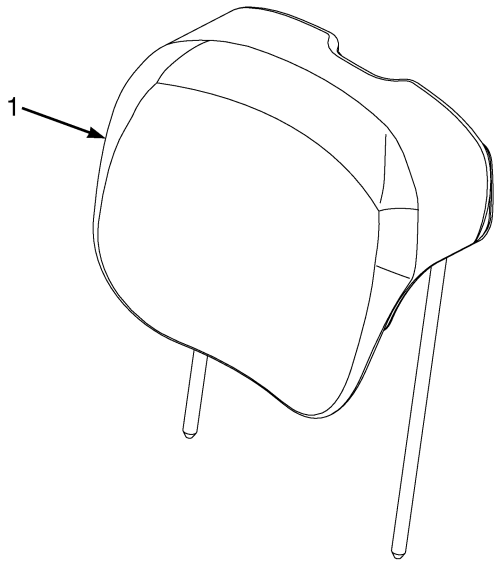
SEAT BACKREST EXTENSION (FIGURE 1-52)

OPTIONAL



BP121174

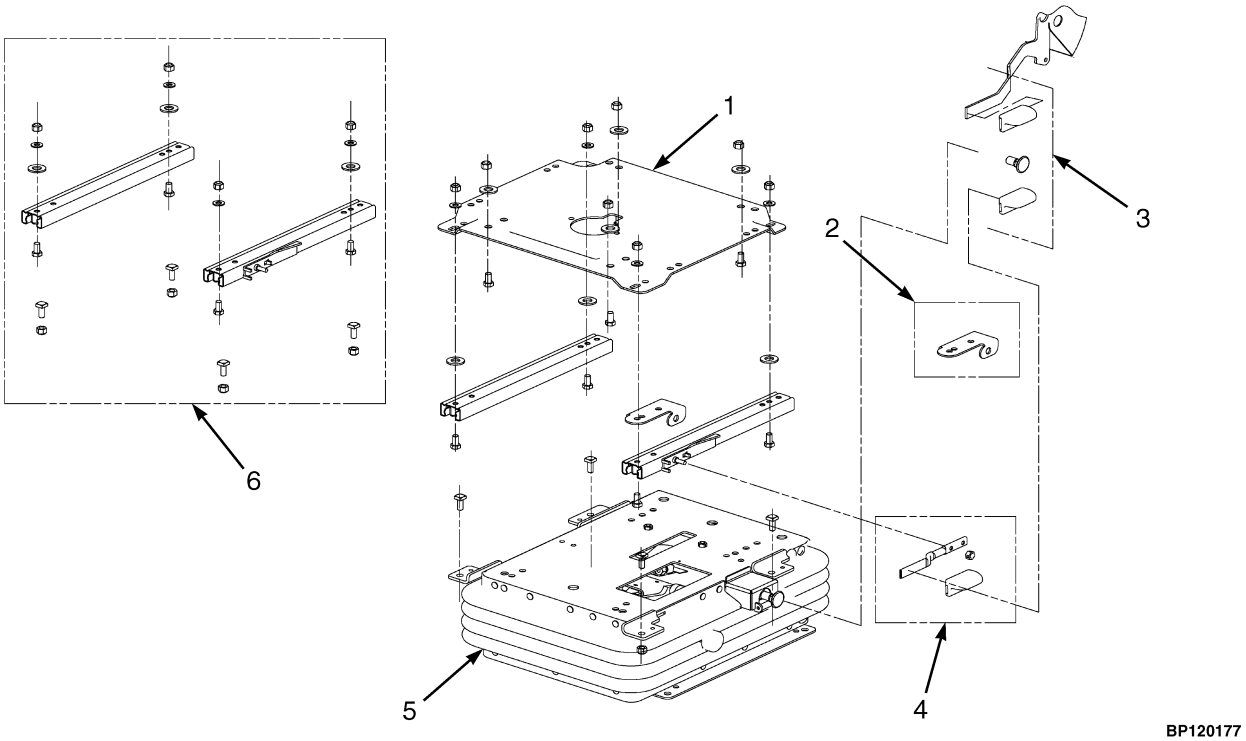
ITEM	PART NO.	DESCRIPTION	QTY
1	**a** 1615147	Kit-Back/Headrest Cushion	1
1	**b** 4104384	Kit Head Rest, Cloth	1
1	1615150	Kit-Back/Headrest Cushion , Vinyl	1
1	1574081	Backrest Extension (Vinyl)	1
1	1615149	Guide Tube Assembly	2

FOOTNOTES:

a → 3/2010

b 3/2010 →

SEAT ASSEMBLY (FIGURE 1-53)
MECHANICAL AND AIR SUSPENSION



BP120177

KEY:
A: Mechanical Suspension
B: Air Suspension

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	a ~~1603522~~			
	1692292	Seat Assy (Mechanical Suspension) (Fabric Cover)	1	..
	1603521	Seat-Full Suspension (Mechanical Suspension) (Vinyl Cover)	1	..
	a ~~1603524~~			
	1692293	Seat Assy (Air Suspension) (Fabric Cover)	..	1
	1603523	Seat-Full Suspension (Air Suspension) (Vinyl Cover)	..	1
1	1482993	Kit-Plate , Adapter	1	1
1	. . . . .	Adapter	1	1
1	1482917	Locknut	8	8
1	1482951	Bolt	8	8
1	1482952	Clip	2	2
1	1482995	Washer	4	4
1	1482953	Strap Clamp	1	1
2	1482996	Kit-Bracket , Lever Support	1	1
2	1482997	Bracket (Support)	1	1
2	1482917	Locknut	4	4
2	1482951	Bolt	4	4
2	1482995	Washer	4	4
2	~~4058185~~			
	1482980	Washer	1	1
2	1482981	Locknut	1	1
3	1482976	Kit-Knob	1	1

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KEY:
A: Mechanical Suspension
B: Air Suspension

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
3	1467531	Knob (Recliner)	1	1
3	. . . . .	Knob (Slide)	1	1
3	1483047	Roll Pin	..	1
3	. . . . .	Knob (Air Valve)	..	1
3	1615105	Handle (Control Valve)	..	1
3	1615106	Knob (Air Control Valve)	..	1
4	1482978	Kit-Lever , Slide Control	1	1
4	~~1482979~~			
	4111352	Lever , Slide	1	1
4	. . . . .	Knob	1	1
4	~~4058185~~			
	1482980	Washer	1	1
4	1482981	Locknut	1	1
5	1482991	Kit-Service Mech Susp Seat	1	..
5	1482992	Suspension (Mechanical)	1	..
5	1482917	Locknut	4	..
5	1482990	Bolt	4	..
5	1482953	Strap Clamp	1	..
5	~~1482989~~			
	1482982	Kit-Service Air Susp Seat	..	1
5	1482917	Locknut	..	4
5	1482990	Bolt	..	4
5	1482953	Strap Clamp	..	1
6	1482998	Kit-Seat Rail	1	1
6	1482990	Bolt	4	4
6	1482917	Locknut	8	8
6	1482951	Bolt	4	4
6	~~4058185~~			
	1482980	Washer	1	1
6	1482981	Locknut	1	1

FOOTNOTES:

a Closed Cab Only

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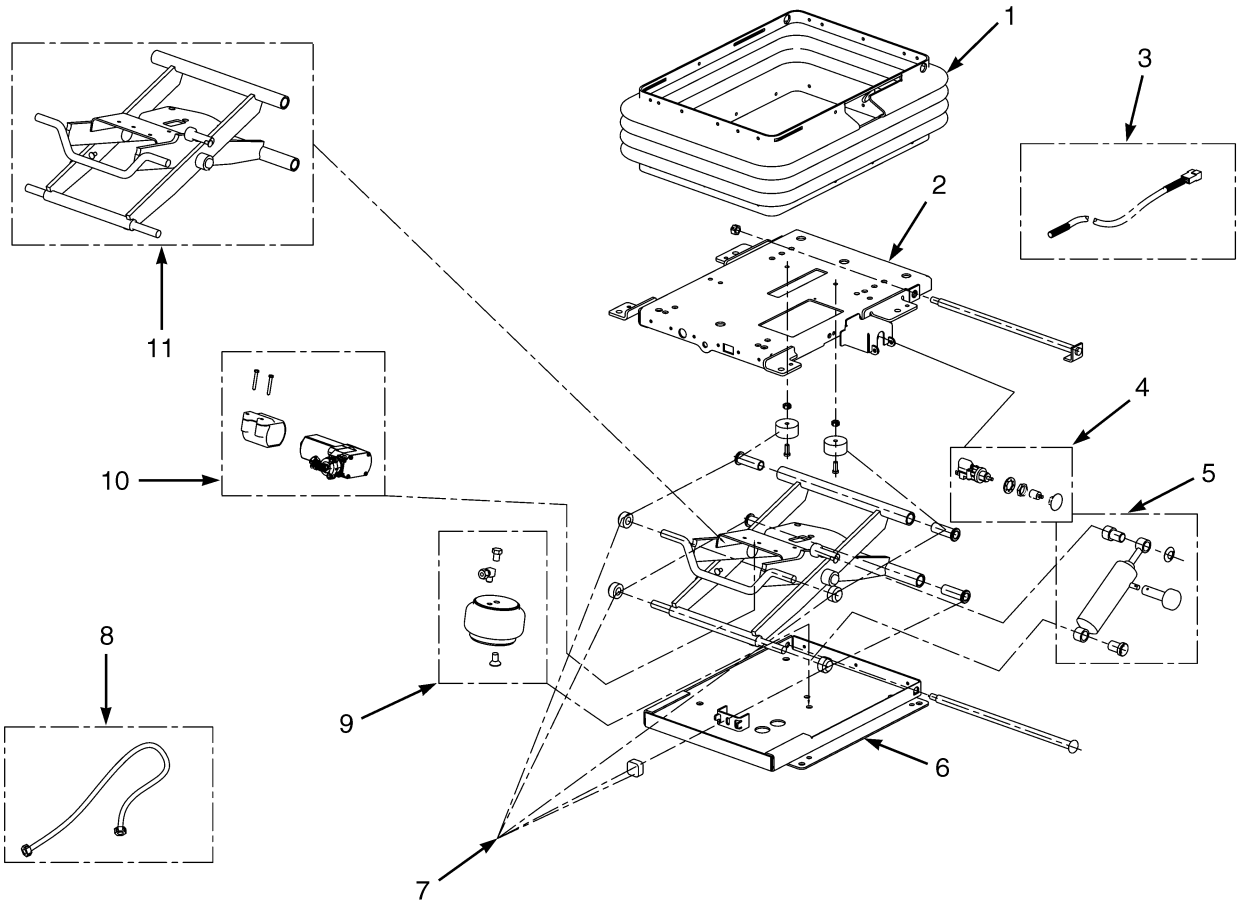
SEAT ASSEMBLY (FIGURE 1-54)
AIR SUSPENSION



BP120136

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SEAT ASSEMBLY
AIR SUSPENSION

ITEM	PART NO.	DESCRIPTION	QTY
	a ~~1603524~~		
	1692293	Seat Assy (Air Suspension) (Fabric Cover)	1
	1603523	Seat-Full Suspension (Air Suspension) (Vinyl Cover)	1
1	1483005	Kit-Suspension Boot	1
1	1483006	Boot	1
1	1483003	Fastener	22
1	1483004	Nut	3
2	1483042	Kit-Housing (Upper)	1
2	1483043	Housing (Upper)	1
2	1483009	Shaft	1
2	~~4048818~~		
	1483010	Nut	1
2	. . . . .	Plug	1
2	1483047	Roll Pin	1
2	1483003	Fastener	11
2	1482917	Locknut	4
2	1482990	Bolt	4
2	. . . . .	Bearing	2
3	1483040	Wire Harness Service Kit	1
3	1483041	Wire Harness	1
3	1482953	Strap Clamp	1
3	1483003	Fastener	1
3	1483004	Nut	1
4	1615107	Valve (Air)	1
4	. . . . .	Valve Body	1
4	1615109	Lockwasher	1
4	1615110	Nut	1
4	. . . . .	Knob (Air Valve)	1
4	1615111	Connector	1
4	1483047	Roll Pin	2
4	1615105	Handle (Control Valve)	1
4	1615106	Knob (Air Control Valve)	1
5	1483049	Gas Spring Kit	1
5	1615129	Shock Absorber	1
5	. . . . .	Fastener	1
5	1615124	Knob (Adjuster)	1
5	1615125	Roll Pin	1
5	1615126	Bushing , Shock (Upper) (Upper Shock)	1
5	1615127	Bushing , Shock (Lower) (Lower Shock)	1
5	1615128	Spring	1
6	1483050	Kit-Housing (Lower)	1
6	1483051	Housing (Lower)	1
6	1483009	Shaft	1
6	~~4048818~~		
	1483010	Nut	1
6	1483029	Fastener	3
6	1483003	Fastener	9
6	1483004	Nut	3
6	1615131	Bumper (Rubber)	1
6	1483058	Screw	1

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SEAT ASSEMBLY
AIR SUSPENSION

ITEM	PART NO.	DESCRIPTION	QTY
7	1483052	Kit-Bearing (Suspension)	1
7	1483031	Roller	4
7	1483053	Bumper	2
7	1483054	Screw	2
7	1483055	Nut	2
7	. . . . .	Bearing	4
7	1482990	Bolt	4
7	~~4048818~~		
	1483010	Nut	2
7	1483003	Fastener	9
7	1483004	Nut	3
7	1482953	Strap Clamp	1
7	1615132	Bumper	2
7	1615126	Bushing , Shock (Upper)	1
7	1615127	Bushing , Shock (Lower)	1
7	. . . . .	Fastener	1
7	~~4058185~~		
	1482980	Washer	4
8	1483061	Kit-Air Hose	1
8	1483062	Hose	1
8	1615111	Connector	1
8	1483060	Fitting	1
8	1615138	Cap	1
8	1615139	O-Ring	1
9	1483056	Kit-Spring , Air	1
9	. . . . .	Air Spring	1
9	1483058	Screw	1
9	1483060	Fitting	1
9	1615136	Clip	1
9	1483062	Hose	1
9	1483003	Fastener	10
9	1483004	Nut	3
9	1615137	Screw	1
10	1528714	Kit-Compressor	1
10	1615140	Compressor (24 Volt)	1
10	1615141	Bracket (Plastic)	1
10	1483067	Screw	2
10	1483062	Hose	1
10	1615111	Connector	1
10	1483060	Fitting	1
11	1615143	Kit-Service Susp Scissors	1
11	1615144	Scissor	1
11	1615126	Bushing , Shock (Upper) (Upper Shock)	1
11	1615127	Bushing , Shock (Lower) (Lower Shock)	1
11	1483031	Roller	4
11	. . . . .	Bearing	4
11	. . . . .	Fastener	1

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FOOTNOTES:

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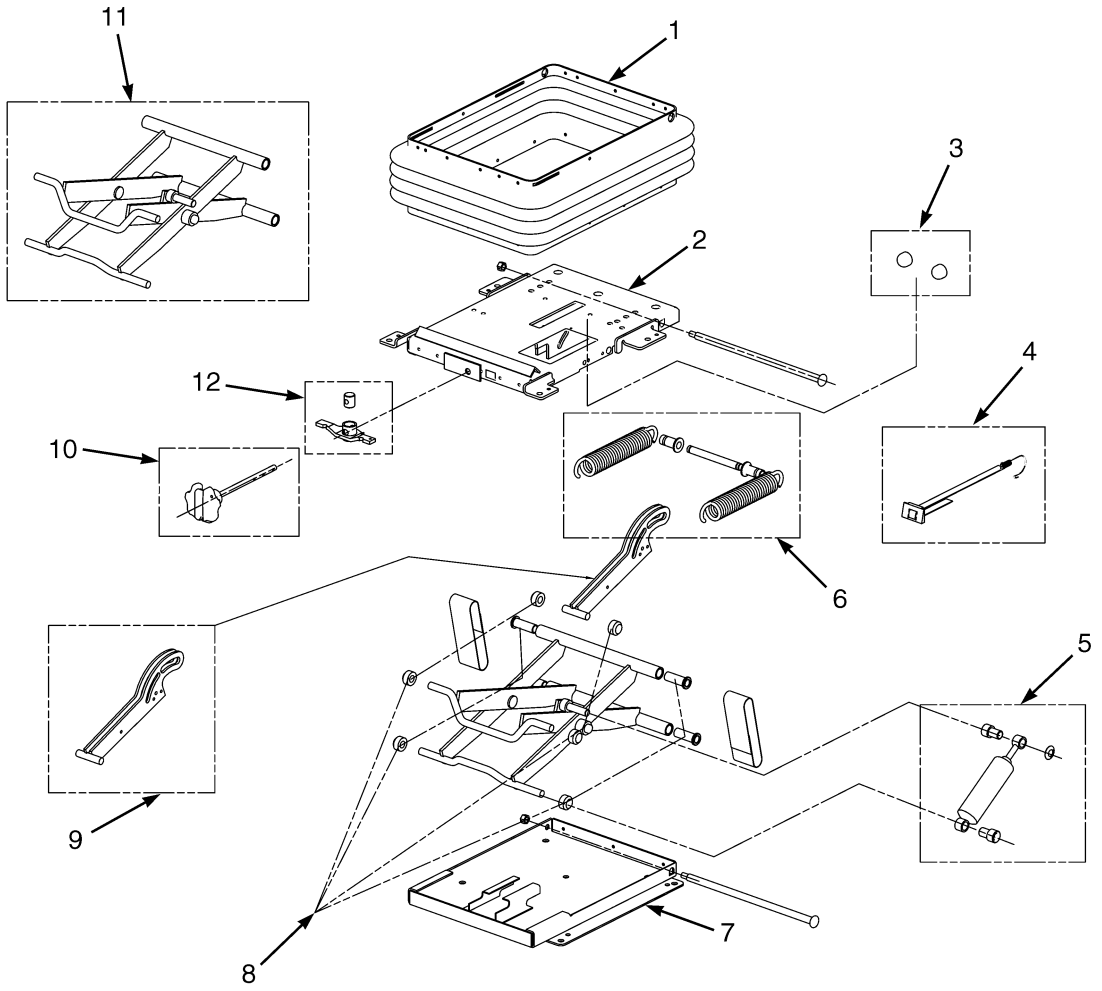
SEAT ASSEMBLY (FIGURE 1-55)
MECHANICAL SUSPENSION



BP120179

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SEAT ASSEMBLY
MECHANICAL SUSPENSION

ITEM	PART NO.	DESCRIPTION	QTY
	1603521	Seat-Full Suspension (Mechanical Suspension) (Vinyl Cover)	1
	a ~~1603522~~		
	1692292	Seat Assy (Mechanical Suspension) (Fabric Cover)	1
1	1483001	Kit-Suspension Boot	1
1	1483002	Boot	1
1	1483003	Fastener	18
1	1483004	Nut	3
2	1483007	Kit-Housing (Upper)	1
2	1483009	Shaft	1
2	~~4048818~~		
	1483010	Nut	1
2	1483003	Fastener	9
2	1483011	Roll Pin	1
2	1482917	Locknut	4
2	1482990	Bolt	4
2	1615075	Pin	2
2	1615076	Pin	1
2	1615077	Clip	4
2	1615078	Clip	2
2	1615079	Cam Follower	1
3	1483012	Kit-Bumper	1
3	1483013	Spring	2
3	1483388	Nut	2
4	1483020	Tape , Weight Adjuster	1
4	1483021	Spring	1
4	1483022	Tape	1
4	1483023	Guide	1
4	1483014	Rivet	1
5	1483024	Gas Spring Kit (Suspension Shock Absorber)	1
5	1483025	Shock Absorber	1
5	. . . . .	Fastener	1
5	1615126	Bushing , Shock (Upper)	2
6	1483015	Kit-Spring	1
6	. . . . .	Spring	2
6	1367128	Retaining Ring	2
6	1483017	Bushing	2
6	1483018	Spacer	2
6	. . . . .	Spring Shaft	1
7	1483027	Kit-Housing (Lower)	1
7	1483028	Housing	1
7	1483009	Shaft	1
7	~~4048818~~		
	1483010	Nut	1
7	1483029	Fastener	3
7	1483003	Fastener	9
7	1483004	Nut	3
7	1483031	Roller	4
8	1483030	Kit-Bearing , Suspension	1
8	1483031	Roller	6
8	. . . . .	Bearing	4

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SEAT ASSEMBLY
MECHANICAL SUSPENSION

ITEM	PART NO.	DESCRIPTION	QTY
8	1615126	Bushing , Shock (Upper)	2
9	1483032	Arm Assembly	1
9	1483033	Arm	1
9	1615075	Pin	2
9	1615076	Pin	1
9	1615077	Clip	4
9	. . . . .	Retaining Ring	2
9	1615078	Clip	2
9	1615079	Cam Follower	1
9	1483018	Spacer	2
9	. . . . .	Bearing	2
9	1483031	Roller	2
10	1483034	Knob	1
10	1483036	Knob	1
10	1483011	Roll Pin	1
11	1483037	Kit-Service Susp Scissors	1
11	1483039	Scissor	1
11	1483031	Roller	4
11	. . . . .	Bearing	4
11	1615126	Bushing , Shock (Upper)	2
11	~~4048818~~		
	1483010	Nut	2
11	. . . . .	Fastener	1
12	1687037	Kit-Weight Adjuster	1

FOOTNOTES:

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NOTES

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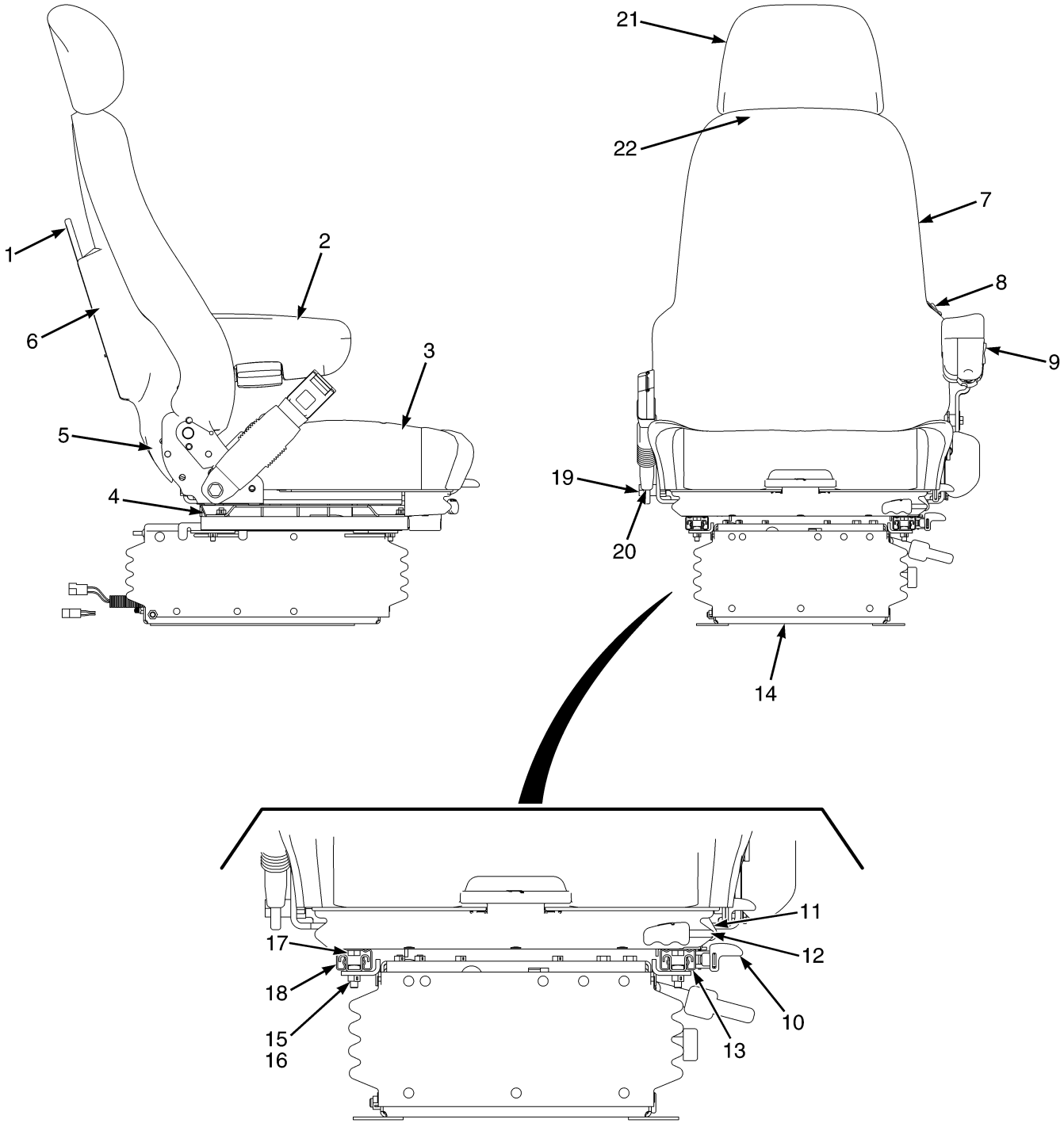
SEAT ASSEMBLY (FIGURE 1-56)
DELUXE SUSPENSION — CLOSED CAB ONLY



BP120666

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SEAT ASSEMBLY
DELUXE SUSPENSION – CLOSED CAB ONLY

ITEM	PART NO.	DESCRIPTION	QTY
	4006338	Seat-Full Suspension Assembly (Deluxe)	1
1	1482948	Box (Book)	1
2	4007739	Kit-Armrest (Left Hand)	1
3	4007748	Seat Cushion	1
4	1482993	Kit-Plate , Adapter	1
5	4007741	Kit -Seat Top	1
6	1482925	Plate (Book Box)	1
7	4170109	Cushion Back	1
8	4007749	Switch (Electric Air Lumbar)	1
8	4007747	Plug (Lumbar)	1
9	4007750	Switch , Valve (Seat Height Control)	1
10	4007745	Knob (Slide Lever)	1
10	~~1482979~~		
	4111352	Lever , Slide	1
11	4007746	Rod (Latch, Cushion Extention Control)	1
12	1615125	Roll Pin	1
13	. . . . .	Seat Rail	1
14	4007751	Kit-Suspension (☞Figure 1-57)	1
15	1482990	Bolt	4
16	1482917	Locknut	13
17	1482951	Bolt	8
18	. . . . .	Seat Rail	1
19	~~4048814~~		
	292528	Capscrew	2
20	1615064	Spacer	1
21	4007742	Headrest	1
22	1615149	Guide Tube Assembly	2
23	**a** 1482981	Locknut	1
24	**a** ~~4058185~~		
	1482980	Washer (0.05 mm)	1
	a 1482949	Screw (Pan Head)	4
	a 1584643	Screw (Truss Head)	4
	a 4007743	Knob (Back Tilt)	1
	a 4007744	Knob (Slide)	1
	a 1482997	Bracket (Support)	1
	a 1482995	Washer (0.07 mm)	9
	a 1615063	Washer (0.08 mm)	6
	1482998	Kit-Seat Rail	1
	a 1615065	Seat Belt Set	1

FOOTNOTES:

a Not Illustrated

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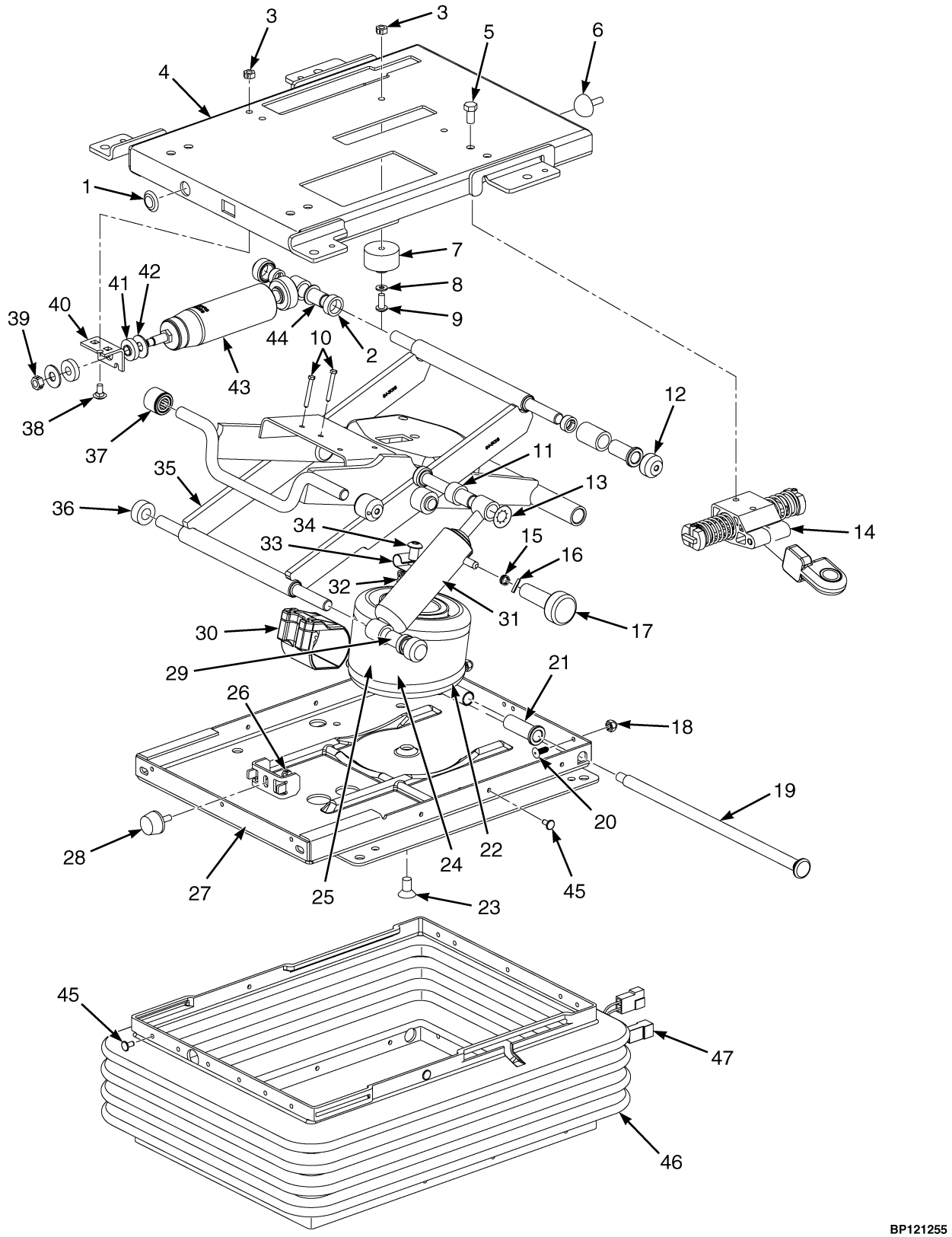
SUSPENSION KIT ASSEMBLY (FIGURE 1-57)



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SUSPENSION KIT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4007751	Kit-Suspension	1
1	. . . . .	Hole Plug	1
2	4102147	Spacer	1
3	1483055	Nut	4
4	4102159	Housing (Upper)	1
5	4102145	Bolt	2
6	1615132	Bumper	2
7	1483053	Bumper	2
8	~~4058185~~		
	1482980	Washer	4
9	1483054	Screw	2
10	1483067	Screw	2
11	1615126	Bushing , Shock (Upper)	1
12	4102157	Roller Assembly	2
13	275608	Fastener	1
14	4102160	Latch Assembly (Isolator)	1
15	. . . . .	Extension Spring	1
16	1615125	Roll Pin	1
17	4102152	Knob , Flex Shock	1
18	1483004	Nut	3
19	. . . . .	Bearing Shaft	1
20	1483029	Fastener	3
21	1367144	Bearing	2
22	. . . . .	Air Spring	1
23	1483058	Screw	1
24	~~4048818~~		
	1483010	Nut	1
25	4102151	Compressor (12V)	1
26	1482981	Locknut	1
27	1483051	Housing (Lower)	1
28	4102148	Bumper	1
29	1615127	Bushing , Shock (Lower)	1
30	1615141	Bracket (Plastic)	1
31	. . . . .	Shock Absorber	1
32	1483060	Fitting	1
33	1615136	Clip	1
34	1615137	Screw	1
35	4102161	Arm , Suspension	1
36	1483031	Roller	2
37	4102158	Bearing and Roller Assembly	2
38	222595	Bolt	2
39	4102144	Nut	1
40	4102156	Bracket , Shock Mounting	1
41	4102154	Bushing	2
42	4102143	Washer	2
43	4102146	Shock Absorber	1
44	4102155	Bushing , Shock Isolator	1
45	1483003	Fastener	21
46	. . . . .	Boot	1
47	4102153	Wire Harness	1

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SUSPENSION KIT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4131930	Kit-Housing , Upper	1

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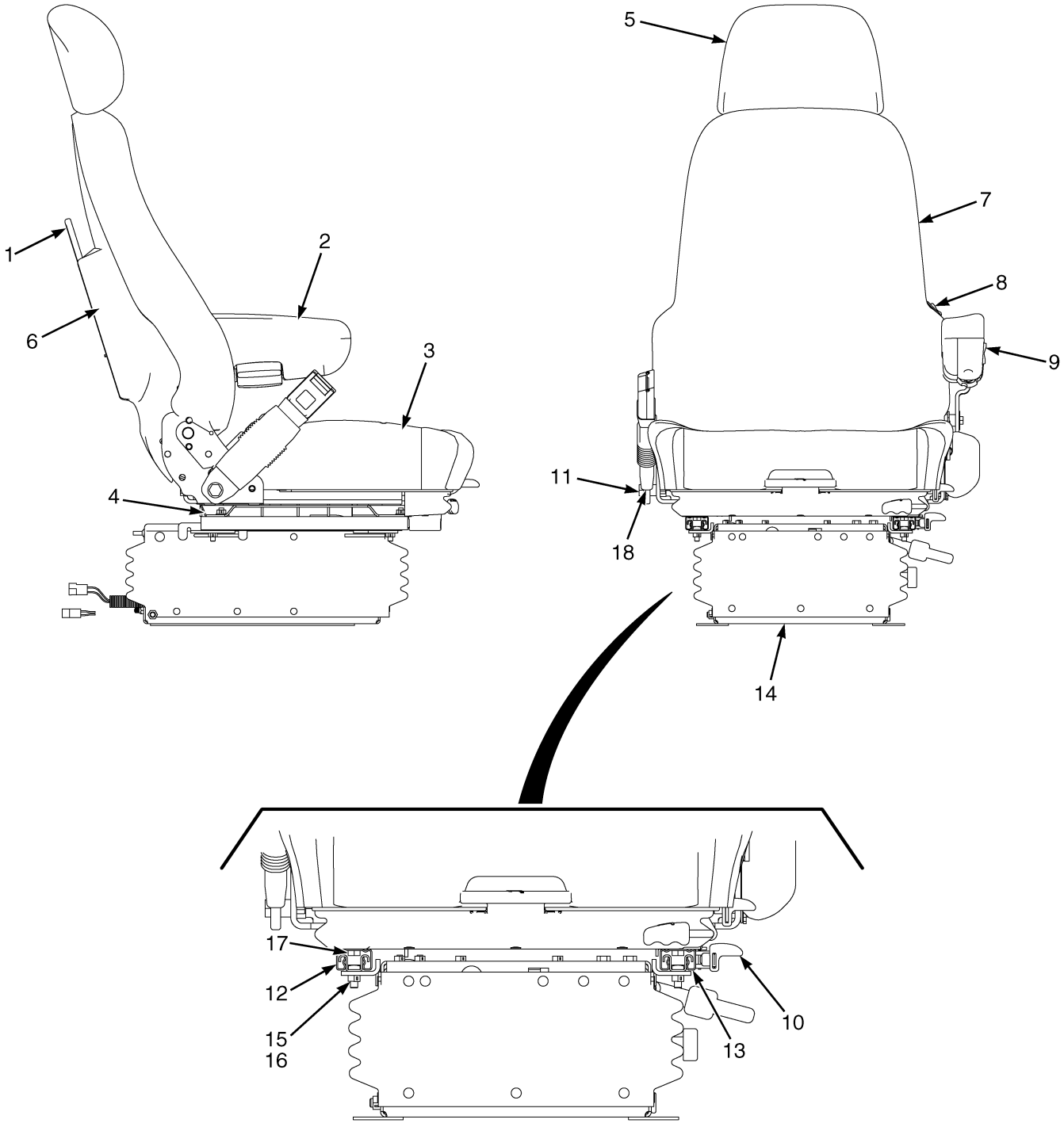
SEAT ASSEMBLY (FIGURE 1-58)
CLIMATE CONTROL CAB



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SEAT ASSEMBLY
CLIMATE CONTROL CAB

ITEM	PART NO.	DESCRIPTION	QTY
	4013486	Seat Assy	1
1	1482948	Box (Book)	1
2	4021118	Kit-Armrest	1
2	4021119	Switch (Seat Heater)	1
3	4099565	Seat Cushion	1
4	1482993	Kit-Plate , Adapter	1
5	4007742	Headrest	1
6	1482925	Plate (Book Box)	1
7	4099566	Seat Cushion (Back)	1
8	4007749	Switch (Electric Air Lumbar)	1
9	4007750	Switch , Valve (Seat Height Control)	1
10	4007744	Knob (Slide)	1
10	~~1482979~~		
	4111352	Lever , Slide	1
10	4021125	Washer	3
11	~~4048814~~		
	292528	Capscrew	2
12	. . . . .	Seat Rail	1
13	. . . . .	Seat Rail	1
13	1482981	Locknut	1
13	~~4058185~~		
	1482980	Washer (0.05 mm)	1
14	4020678	Kit-Suspension	1
15	1482990	Bolt	4
16	1482917	Locknut	13
17	1482951	Bolt	8
17	1482997	Bracket (Support)	1
17	1482995	Washer (0.07 mm)	9
18	1615064	Spacer	1
	a 1615063	Washer (0.08 mm)	6
	1482998	Kit-Seat Rail	1

FOOTNOTES:

a Not Illustrated

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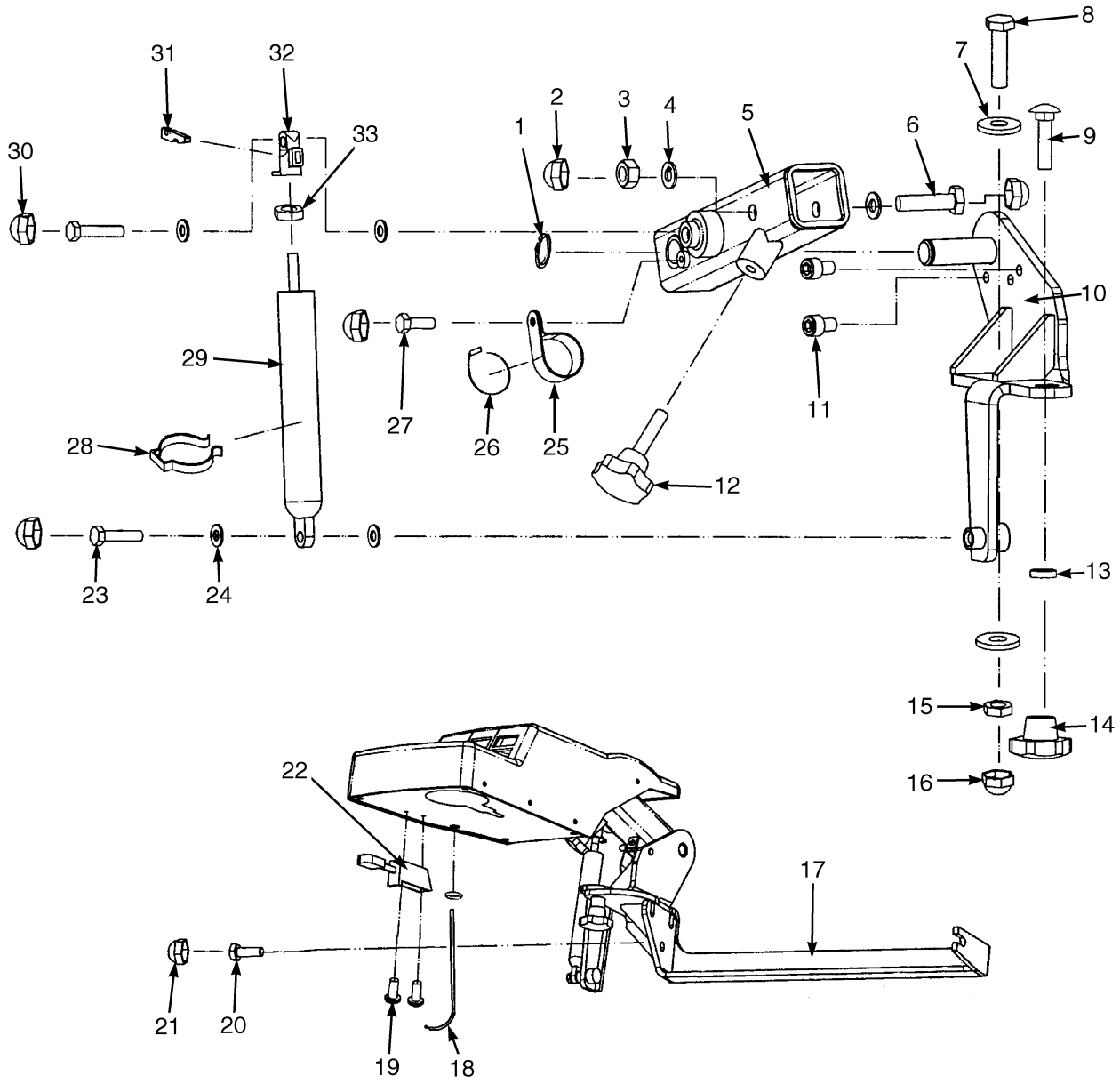
PIVOT ARM ASSEMBLY (FIGURE 1-59)



HP120779

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PIVOT ARM ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1571627	Armrest Assembly (Pivot Arm)	1
1	1498385	Retaining Ring	1
2	1493397	Cover (Capscrew Head)	2
3	316834	Nut	1
4	1476421	Washer	2
5	1534475	Tube	1
6	1506669	Screw	1
7	1571029	Washer	3
8	287837	Capscrew	1
9	1493499	Screw	1
10	1534474	Pivot	1
11	296010	Capscrew	2
12	1493494	Knob (Star Grip)	1
13	1498338	Washer	2
14	1534476	Knob	1
15	~~1703768~~		
	1506827	Nut	1
16	1493474	Cover (Capscrew Head)	1
17	1534481	Console Support	1
18	1530386	Cable	1
19	1498357	Screw	2
20	136985	Capscrew	3
21	1493312	Cap (Capscrew Head)	3
22	1571030	Lever Assembly (Armrest Release)	1
23	132861	Capscrew	2
24	296419	Washer	4
25	1493498	Clamp	1
26	1506825	Strap Clamp	2
27	287805	Capscrew	1
28	1498356	Clip	1
29	1530385	Gas Spring	1
30	1476584	Cover (Capscrew Head)	3
31	1534477	Lever (Release)	1
32	1534425	Rod End	1
33	1539034	Nut	1

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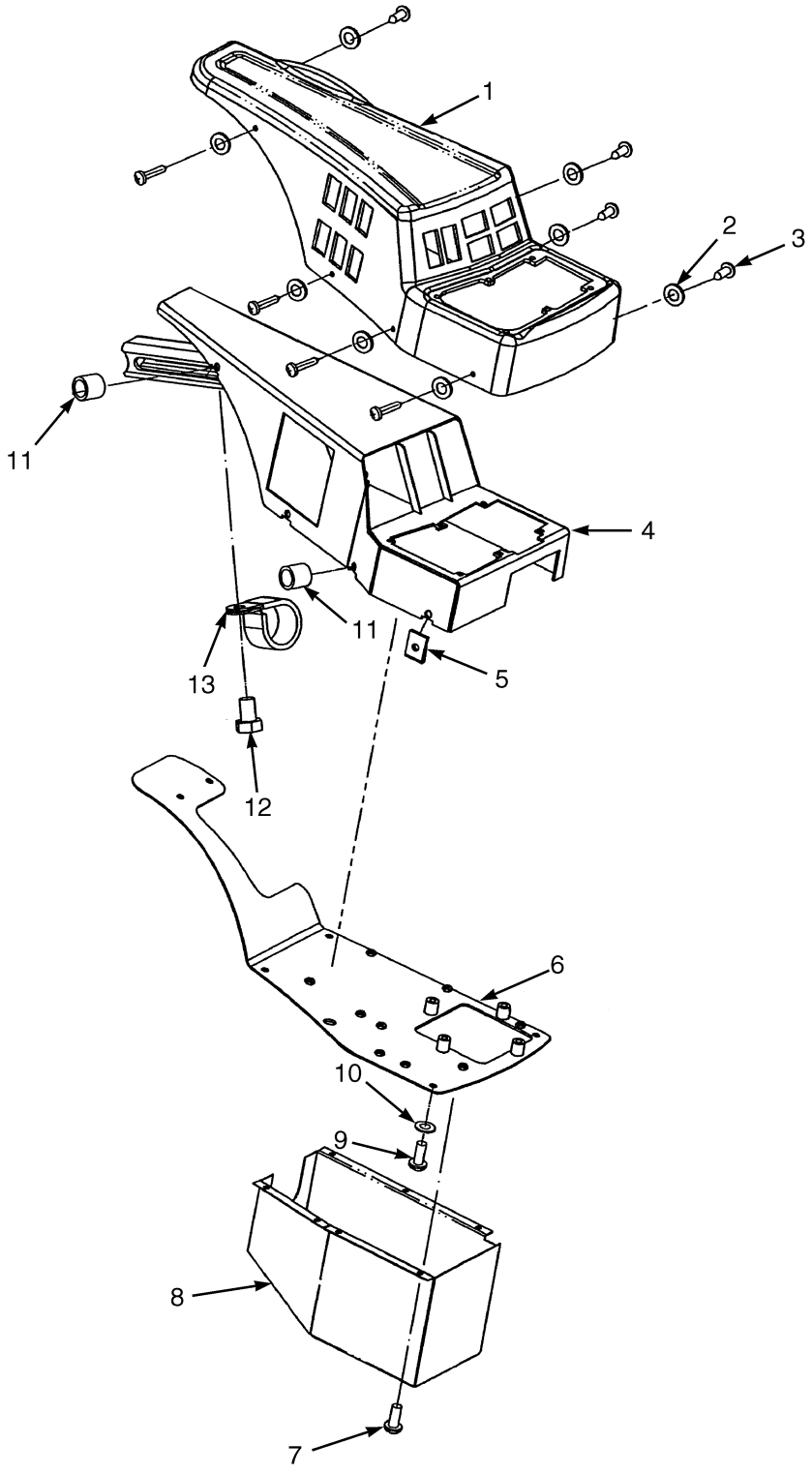
ARMREST ASSEMBLY (FIGURE 1-60)
JOYSTICK



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ARMREST ASSEMBLY
JOYSTICK

ITEM	PART NO.	DESCRIPTION	QTY
	1634996	Armrest Assembly	1
1	1637392	Cover (Armrest)	1
2	1492140	Washer	8
3	1468319	Screw	8
4	1637395	Frame (Armrest)	1
5	1492139	Nut	8
6	1637394	Plate	1
7	302023	Screw	7
8	1637391	Cover (Joystick)	1
9	1637393	Screw	6
10	1468321	Washer (Plastic)	6
11	1571776	Washer	2
12	1571775	Screw	1
13	1493486	Clamp	1

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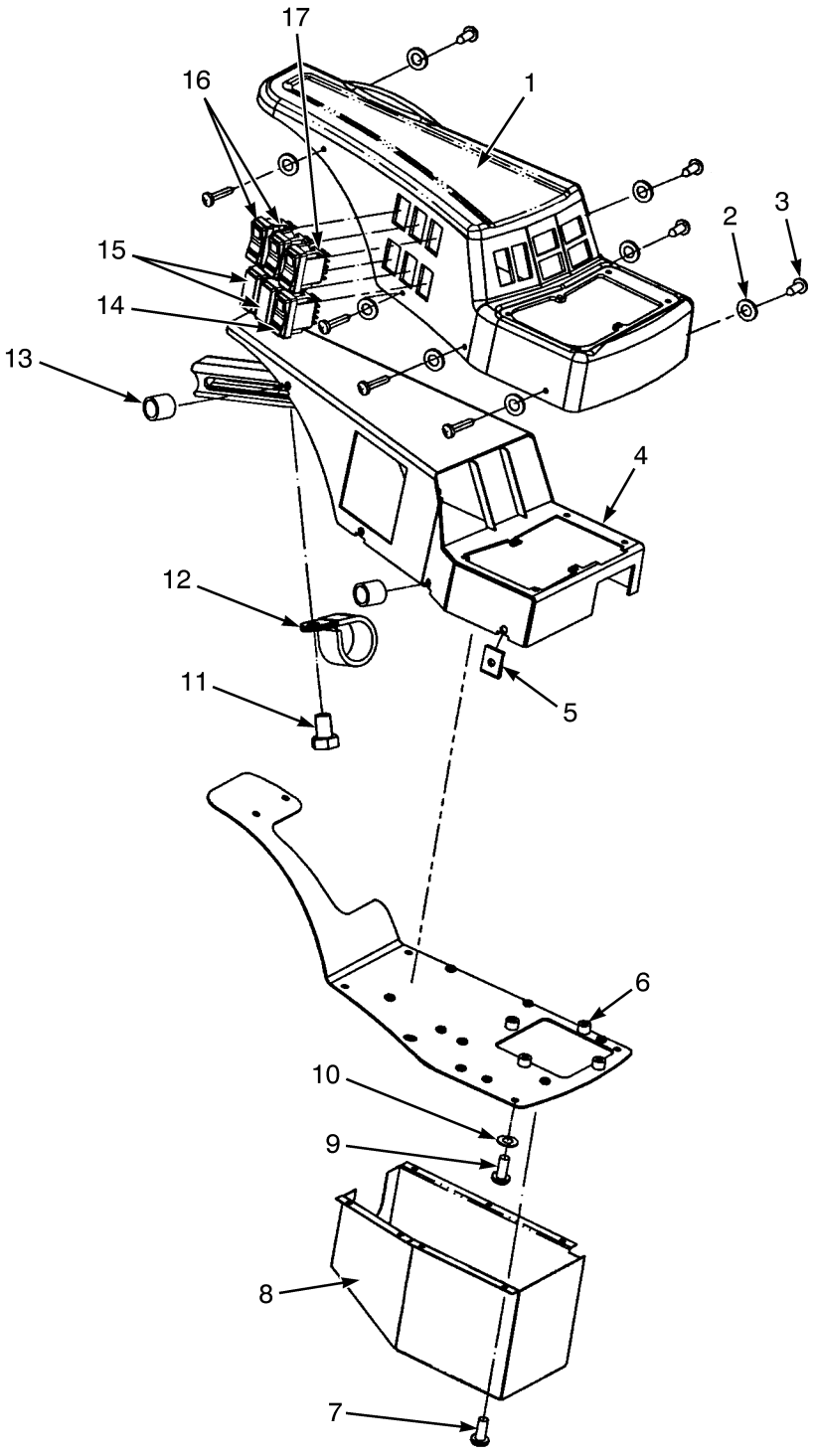
ARMREST ASSEMBLY (FIGURE 1-61)
HYDRAULIC LEVERS



HP121194

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ARMREST ASSEMBLY
HYDRAULIC LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
	1623187	Armrest Assembly	1
1	1637451	Cover	1
2	1492140	Washer	8
3	1468319	Screw	8
4	1637449	Frame	1
5	1492139	Nut	8
6	1637450	Plate	1
7	302023	Screw	7
8	1637391	Cover	1
9	1637393	Screw	6
10	1468321	Washer (Plastic)	6
11	1571775	Screw	1
12	1493486	Clamp	1
13	1571776	Washer	2
14	2043354	Switch (Window Washer)	1
15	1498383	Plug (Switch)	2
16	2043353	Switch (Wipers,Top And Rear)	2
17	2043352	Switch (Wipers, Front)	1

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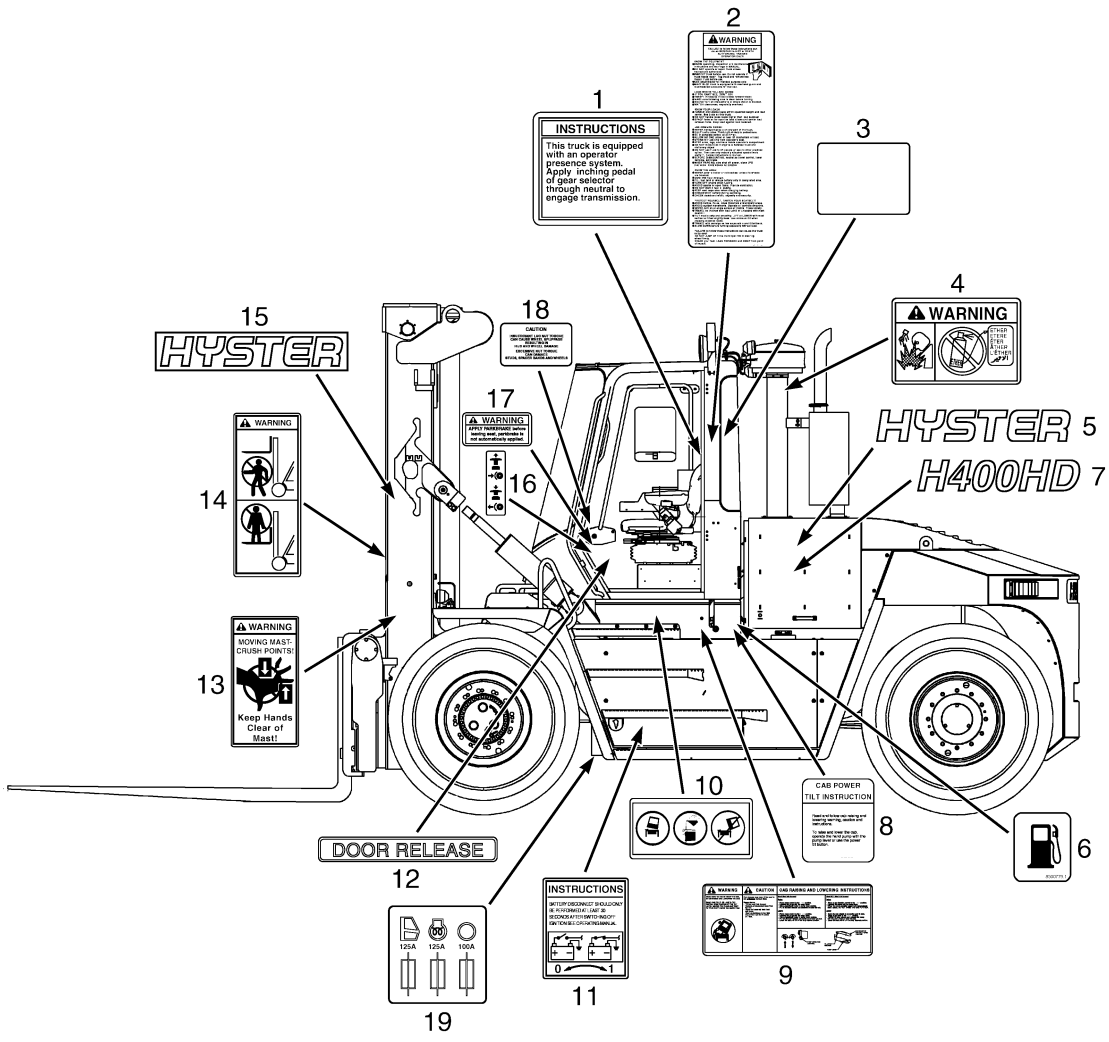
LABELS (FIGURE 1-62)
PAGE 1 OF 2



HP121306

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LABELS

PAGE 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	2084159	Label (Operator Presence)	1
2	2043479	Label (Operator Warning)	1
3	1328205	Label (Replace Operator Manual)	1
4	2034459	Label (Ether Warning)	2
5	888012	Label (Hyster)	2
6	2074256	Label (Diesel Fuel Only) (Tier III Engine)	1
6	4606610	Label (Fuel Fill) (Tier IV Interim Engine)	1
7	4040939	Label (400) (For Models H400HD, H400HDS)	2
7	4040942	Label (450) (For Models H450HD, H450HDS)	2
8	2044002	Label (Power Tilt)	1
9	2043493	Label (Cab Tilt Warning)	1
10	2050044	Label (Cab Tilt Pump)	1
11	1515475	Label (Battery Disconnect)	1
12	1451416	Label (Door Release)	4
13	1346893	Label (Mast Warning)	2
14	1335126	Label (Mast Warning)	2
15	1450810	Label (Hyster)	2
16	2044400	Label (Park Brake)	1
17	1335146	Label (Park Brake Warning)	1
18	322668	Label (Lug Nut Torque)	1
19	~~4004694~~		
	4029360	Label (Fuses)	1

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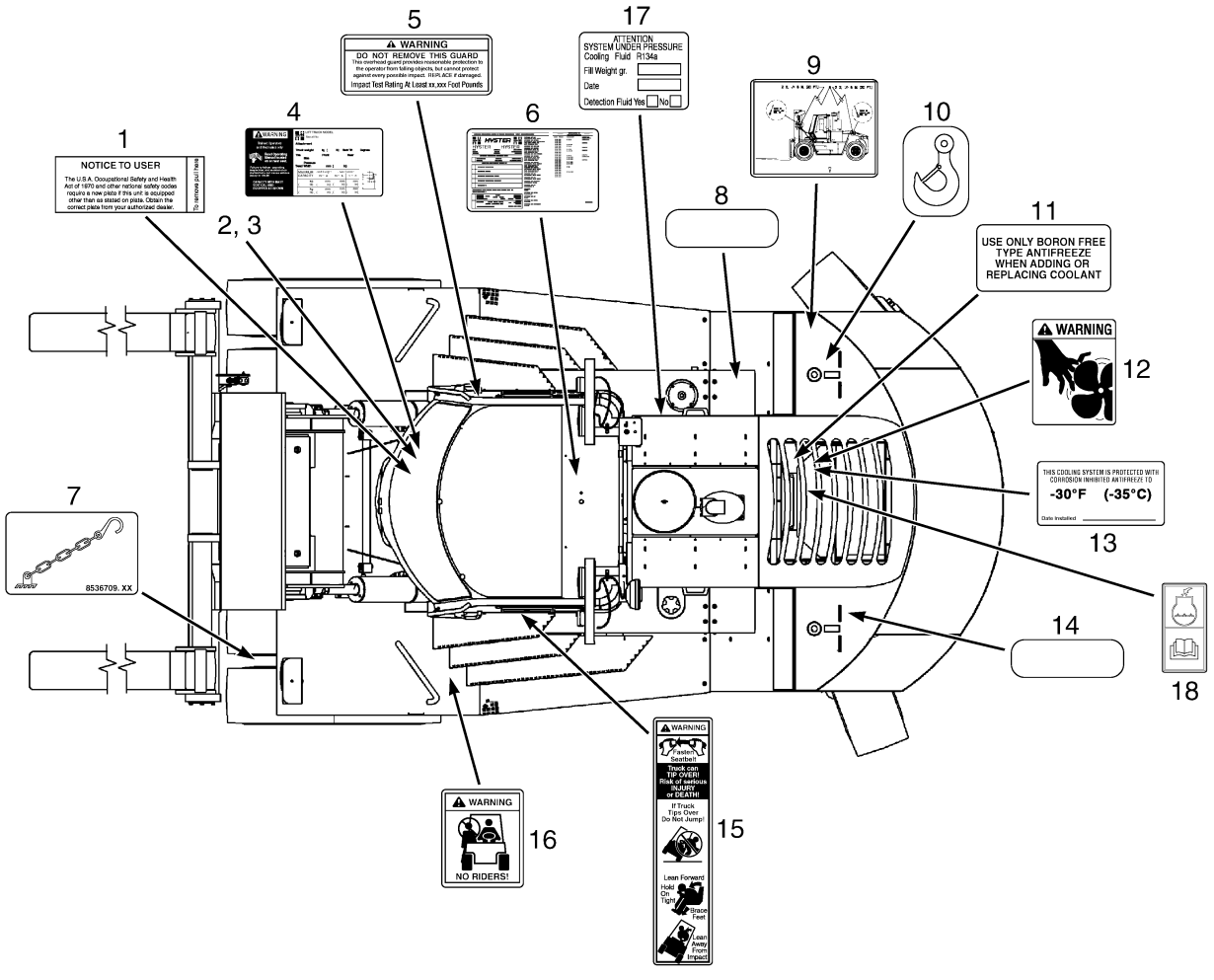
See Service Manual for service procedures.

LABELS (FIGURE 1-63)
PAGE 2 OF 2



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LABELS
PAGE 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1335137	Nameplate Label Tag	1
2	389688	Nameplate Cover	1
3	1513947	Rivet (Plastic)	4
4	**a**	Capacity Plate	1
5	**a**	Label (Impact Rating)	1
6	1534660	Label (Patents and Trademarks)	1
7	2090765	Label (Tie Down)	4
8	184841	Anti-Slip Tread	2
9	1653955	Label (Instruction)	1
10	316448	Label (Lifting Eye)	4
11	1375676	Label (Boron-Free Antifreeze)	1
12	1345939	Label (Fan Warning)	2
13	1354165	Label (Antifreeze)	1
14	239423	Anti-Slip Tread	2
15	1330917	Label (Operator Restraint)	2
16	1330920	Label (No Riders)	2
17	4602440	Label (Air Conditioning)	1
	b c 4612110	Bracket (Second Nameplate)	1

FOOTNOTES:

a Contact Your Local Hyster Dealer
b Not Illustrated
c Optional - Install With Additional Nameplate Cover 389688

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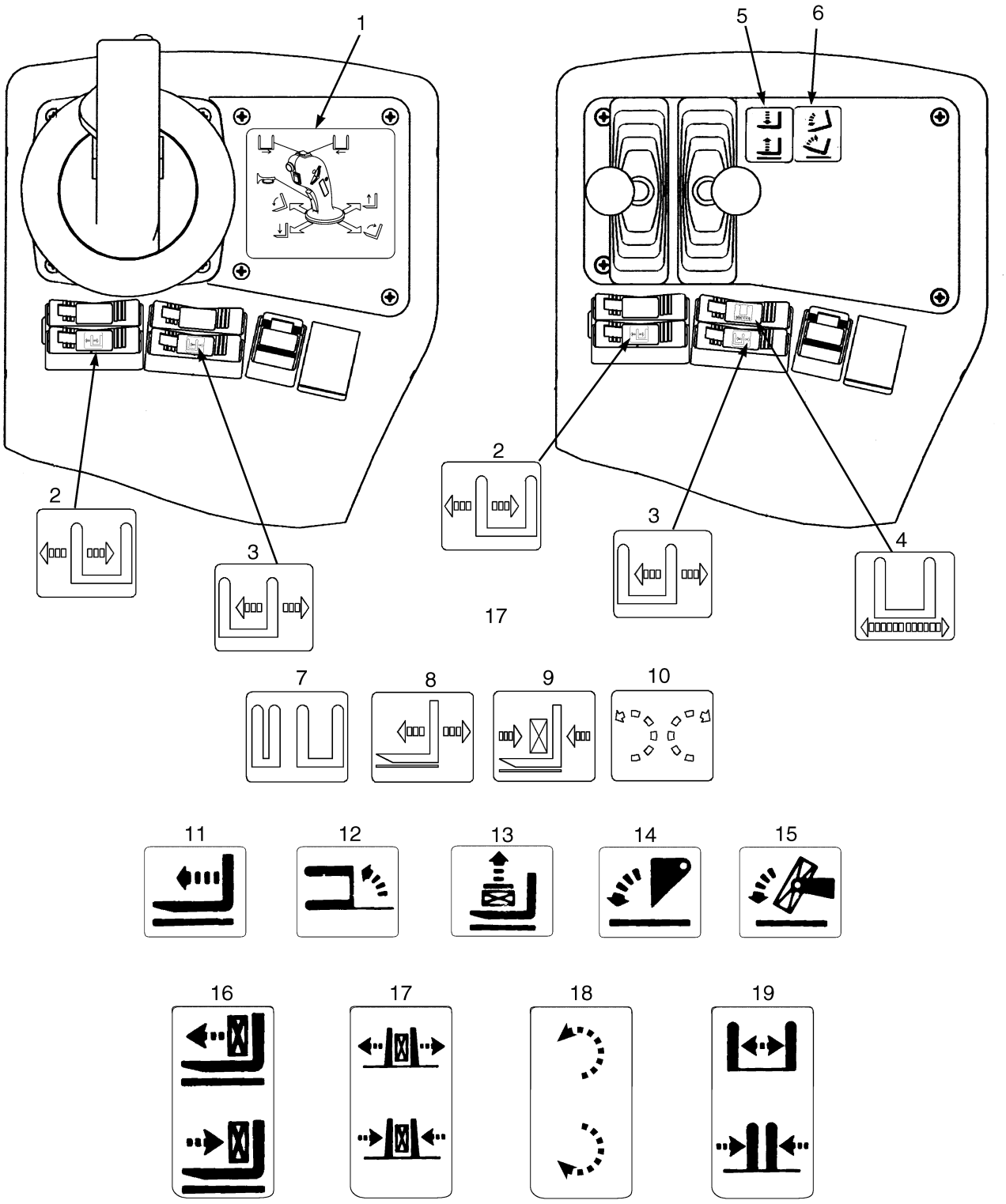
LABELS (FIGURE 1-64)
HYDRAULIC CONTROLS



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LABELS
HYDRAULIC CONTROLS

KEY:
A: Joystick Controls
B: Lever Controls

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1638831	Label (Joystick with Fork Lift Truck)	1	..
2	2043469	Label (LH Fork)	1	1
3	2043471	Label (RH Fork)	1	1
4	2043470	Label (Side-Shift)	1	1
5	1301411	Label (Hoist)	..	1
6	1301410	Label (Tilt)	..	1
7	2043472	Label (Auxiliary Function, Fork Spreader)	1	1
8	2043473	Label (Reach)	1	1
9	2043474	Label (Push/Pull)	1	1
10	2043475	Label (Rotate)	1	1
11	370250	Label (Auxiliary Function - Reach)	1	1
12	370251	Label (Auxiliary Function - Swing)	1	1
13	370252	Label (Auxiliary Function - Stabilizer)	1	1
14	370253	Label (Auxiliary Function - Dump/Scoop)	1	1
15	370254	Label (Auxiliary Function - Upender)	1	1
16	370255	Label (Auxiliary Function - Push/Pull)	1	1
17	370256	Label (Auxiliary Function - Clamp)	1	1
18	370257	Label (Auxiliary Function - Rotate)	1	1
19	370259	Label (Auxiliary Function - Fork Spreader)	1	1

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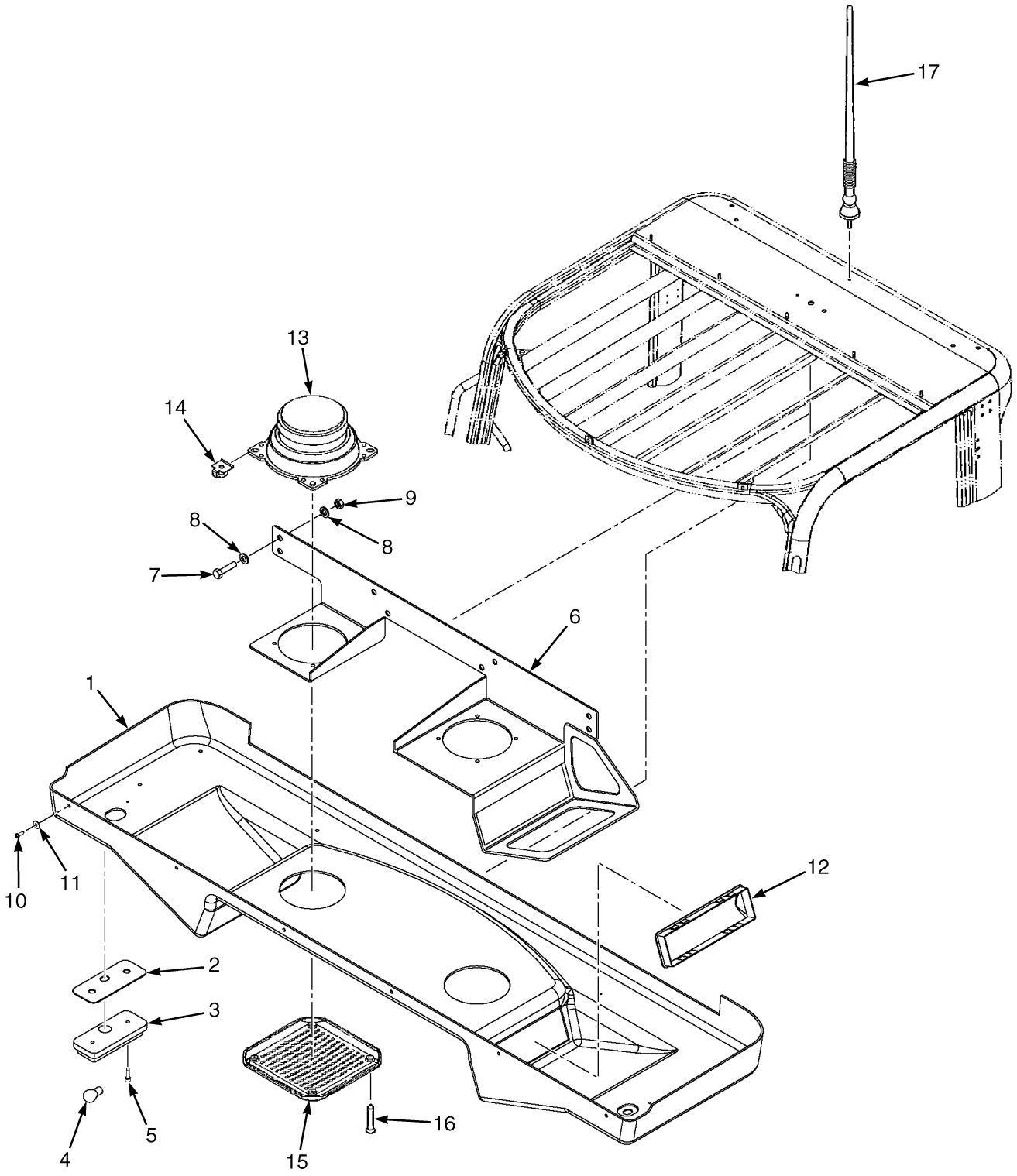
RADIO CONSOLE AND ATTACHING PARTS (FIGURE 1-65)
CLOSED CAB ONLY



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RADIO CONSOLE AND ATTACHING PARTS
CLOSED CAB ONLY

ITEM	PART NO.	DESCRIPTION	QTY
	1492176	Console Assembly (Radio)	1
1	1491468	Headliner	1
2	1566767	Bracket	2
3	1393528	Dome Light	2
4	887317	Bulb	2
5	1492163	Screw	4
6	1566762	Bracket (Radio Console)	1
7	287854	Capscrew	4
8	320160	Washer	8
9	136692	Nut	4
10	4028462	Screw	10
11	4028463	Washer	10
12	1571628	Cover	1
13	4009587	Loudspeaker	2
14	1492139	Nut	8
15	1598421	Cover (Speaker)	2
16	1703737	Screw	8
17	4009588	Antenna	1

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NOTES

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2 ENGINE ASSEMBLY

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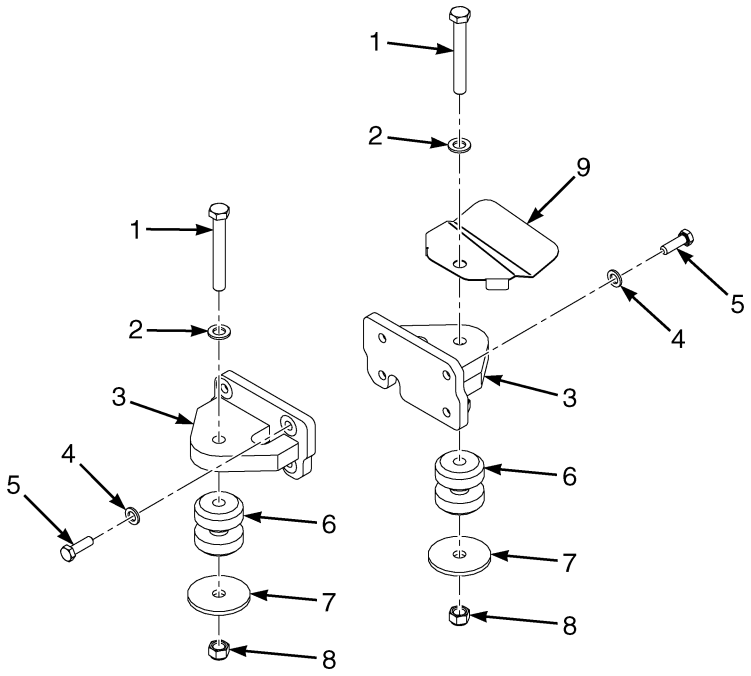
ENGINE MOUNTS (FIGURE 2-1)
TIER III AND TIER IV INTERIM ENGINE



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ITEM	PART NO.	DESCRIPTION	QTY
1	292573	Capscrew	2
2	320165	Washer	2
3	4013839	Mounting Weldment (Tier IV Interim Engine)	2
3	1559655	Bracket (Tier III Engine)	2
4	296422	Washer	8
5	1464456	Capscrew	8
6	1464454	Isolator	2
7	1302938	Washer	2
8	302404	Locknut	2
9	4034373	Plate (Tier IV Interim Engine)	1

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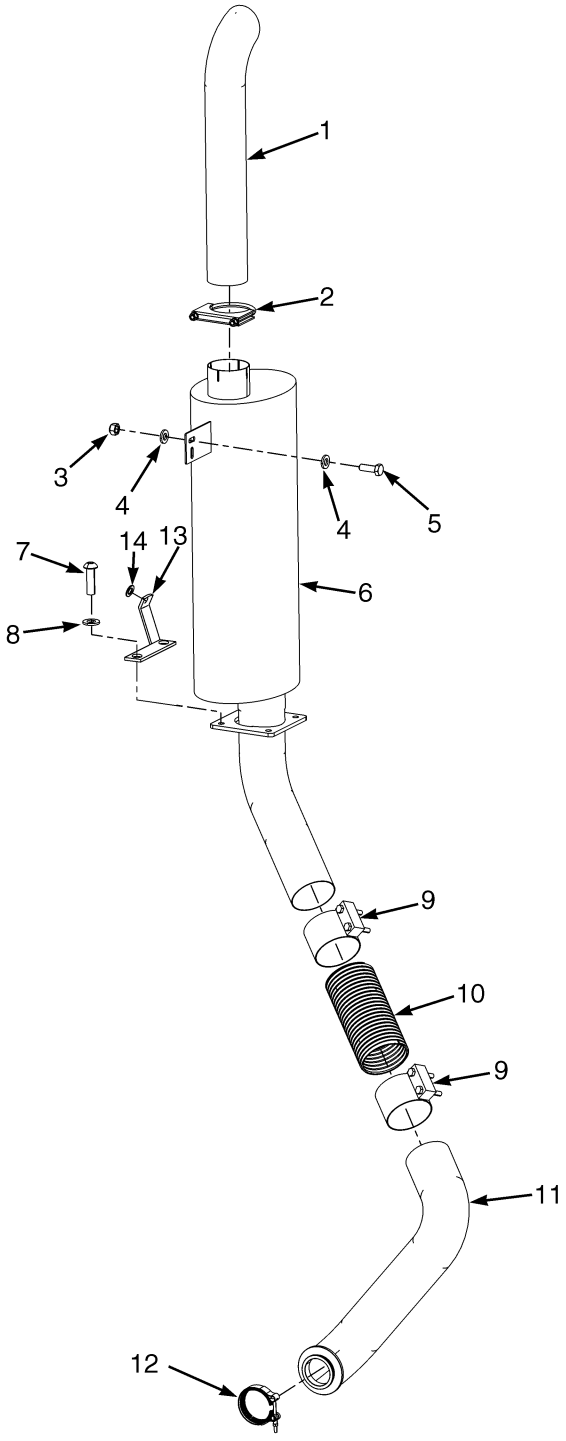
EXHAUST SYSTEM (FIGURE 2-2)
TIER III ENGINE



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EXHAUST SYSTEM
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1612648	Exhaust Pipe	1
2	1652598	Clamp	1
3	302400	Nut	2
4	320157	Washer	4
5	136749	Screw	2
6	1612638	Muffler	1
7	1648945	Capscrew	4
8	1581557	Washer	4
9	1322010	Clamp	2
10	1331909	Flex Tube	1
11	1663101	Exhaust Pipe	1
12	1373430	Clamp	1
13	1670550	Plate	1
14	334639	Plug	1

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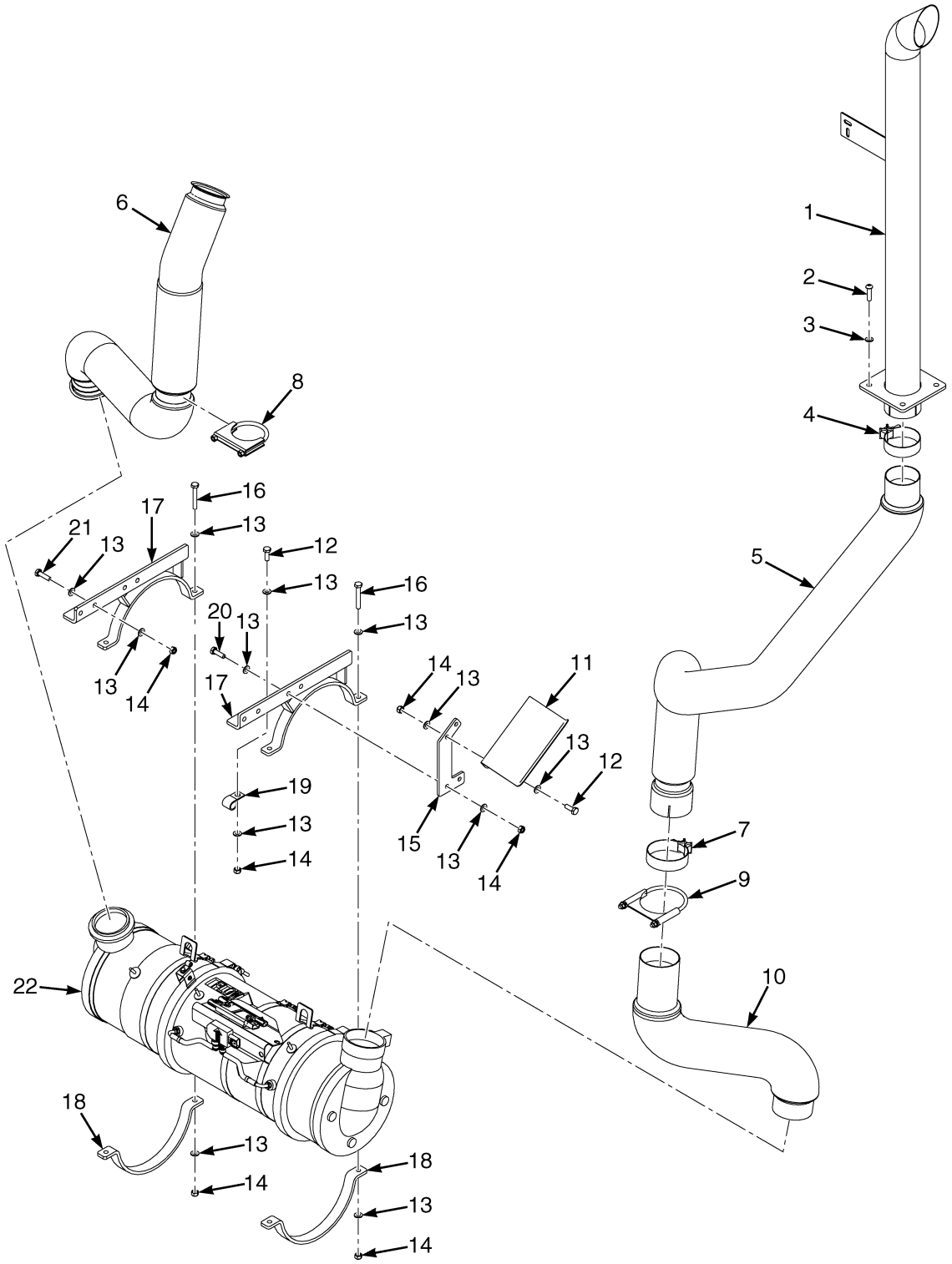
EXHAUST SYSTEM (FIGURE 2-3)
TIER IV INTERIM ENGINE



HP110032

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EXHAUST SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	4009119	Exhaust Pipe	1
1	4018411	Exhaust Pipe (Diluter Type) (Optional)	1
2	1648945	Capscrew	4
3	1581557	Washer	4
4	1652598	Clamp	1
5	4009118	Exhaust Pipe	1
6	4009117	Exhaust Pipe	1
7	1658856	Clamp	1
8	157847	Clamp	1
9	1391427	Clamp	1
10	4008931	Exhaust Pipe	1
11	4031921	Plate	1
12	136985	Capscrew	3
13	320159	Washer	26
14	302401	Locknut	13
15	4031920	Plate	1
16	292521	Capscrew	4
17	4009991	Plate Wldmt	1
18	4012569	Plate	2
19	298132	Clamp	1
20	287860	Capscrew	2
21	292515	Capscrew	4
22	. . . . .	Muffler (☞Figure 2-4, ☞Figure 2-5)	1

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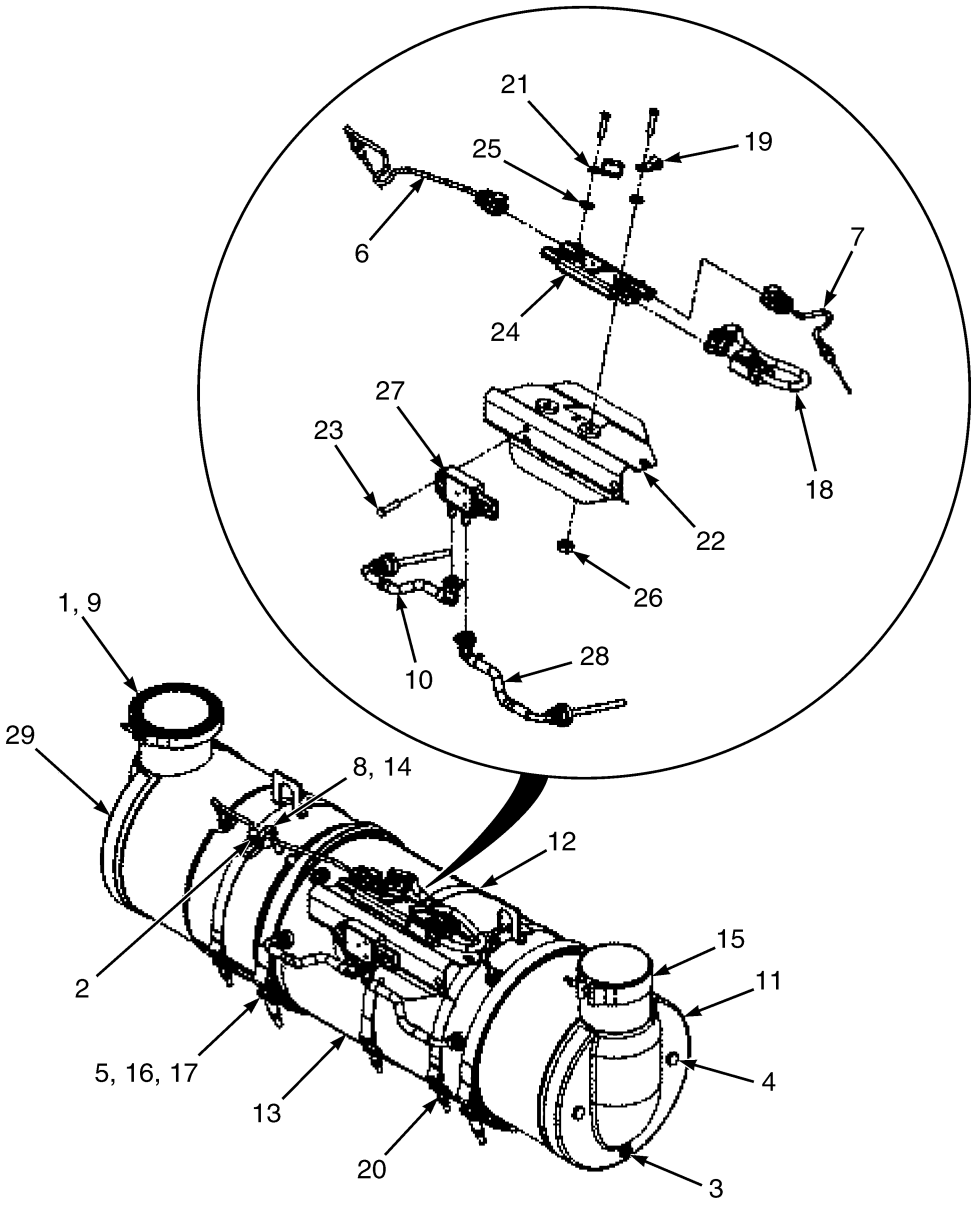
MUFFLER (FIGURE 2-4)
AFTERTREATMENT DEVICE (→ S/N B236E01709M)



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MUFFLER

AFTERTREATMENT DEVICE (→ S/N B236E01709M)

ITEM	PART NO.	DESCRIPTION	QTY
	4017664	Muffler	1
1	~~4036447~~		
	4099960	Gasket	1
2	4036448	Clip	2
3	4036449	Plug	1
4	4036450	Plug	2
5	4036451	Gasket	2
6	4036453	Sensor (Temperature)	1
7	4036454	Sensor (Temperature)	2
8	4036455	Capscrew	1
9	~~4036456~~		
	4099961	Clamp	1
10	4124382	Tube	1
11	4036461	Outlet Module	1
12	4036462	Bracket	2
13	4124370	Module , Particulate Filter	1
14	4036465	Washer	1
15	4036466	Clamp	1
16	4124371	Clamp , V-Band	2
17	4124372	Locknut	1
18	4110645	Wire Harness	1
19	4124373	Clip	1
20	4036457	Clamp	3
21	4124375	Clip	1
22	4124376	Bracket Assembly (Sensor)	1
22	4124381	Bracket	1
23	4124379	Screw	2
24	4124380	Box , Junction	1
25	4124369	Washer	1
26	4124374	Nut	2
27	4048417	Sensor (Pressure)	2
28	4124383	Tube	1
29	4124384	Module , Inlet Catalyst	1

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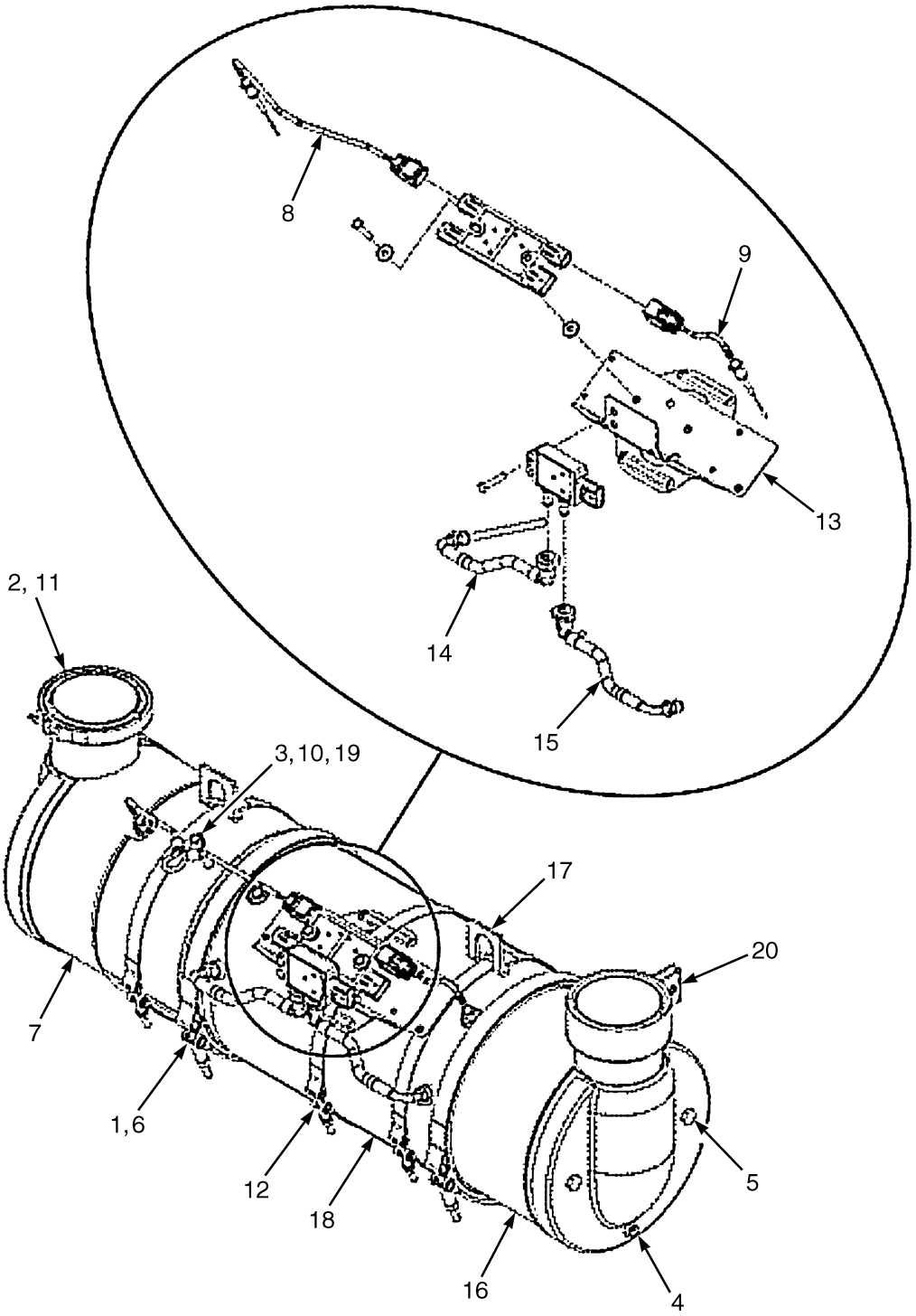
DIESEL PARTICULATE FILTER (FIGURE 2-5)

AFTERTREATMENT MODULE DEVICE — TIER IV INTERIM ENGINE (S/N B236E01710M →)



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DIESEL PARTICULATE FILTER

AFTERTREATMENT MODULE DEVICE – TIER IV INTERIM ENGINE (S/N B236E01710M →)

ITEM	PART NO.	DESCRIPTION	QTY
	4082110	Engine Assy (2013) (Service with Short Block Kit 4135331)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4036446	Clamp (V-Band)	2
2	~~4036447~~		
	4099960	Gasket	1
3	4036448	Clip	2
4	4036449	Plug	1
5	4036450	Plug	2
6	4036451	Gasket	2
7	. . . . .	Diesel Particulate Filter (Inlet Catalyst)	1
8	4036453	Sensor (Temperature)	1
9	4036454	Sensor (Temperature)	2
10	4036455	Capscrew	1
11	~~4036456~~		
	4099961	Clamp	1
12	4036457	Clamp	3
13	4036458	Bracket	1
14	4036459	Tube	1
15	4036460	Tube	1
16	4036461	Outlet Module	1
17	4036462	Bracket	2
18	4036464	Diesel Particulate Filter	1
19	4036465	Washer	1
20	4036466	Clamp	1
	a 4048417	Sensor (Pressure)	1

FOOTNOTES:

a Not Illustrated

NOTE: Refer to plate on engine to determine engine assembly part number.

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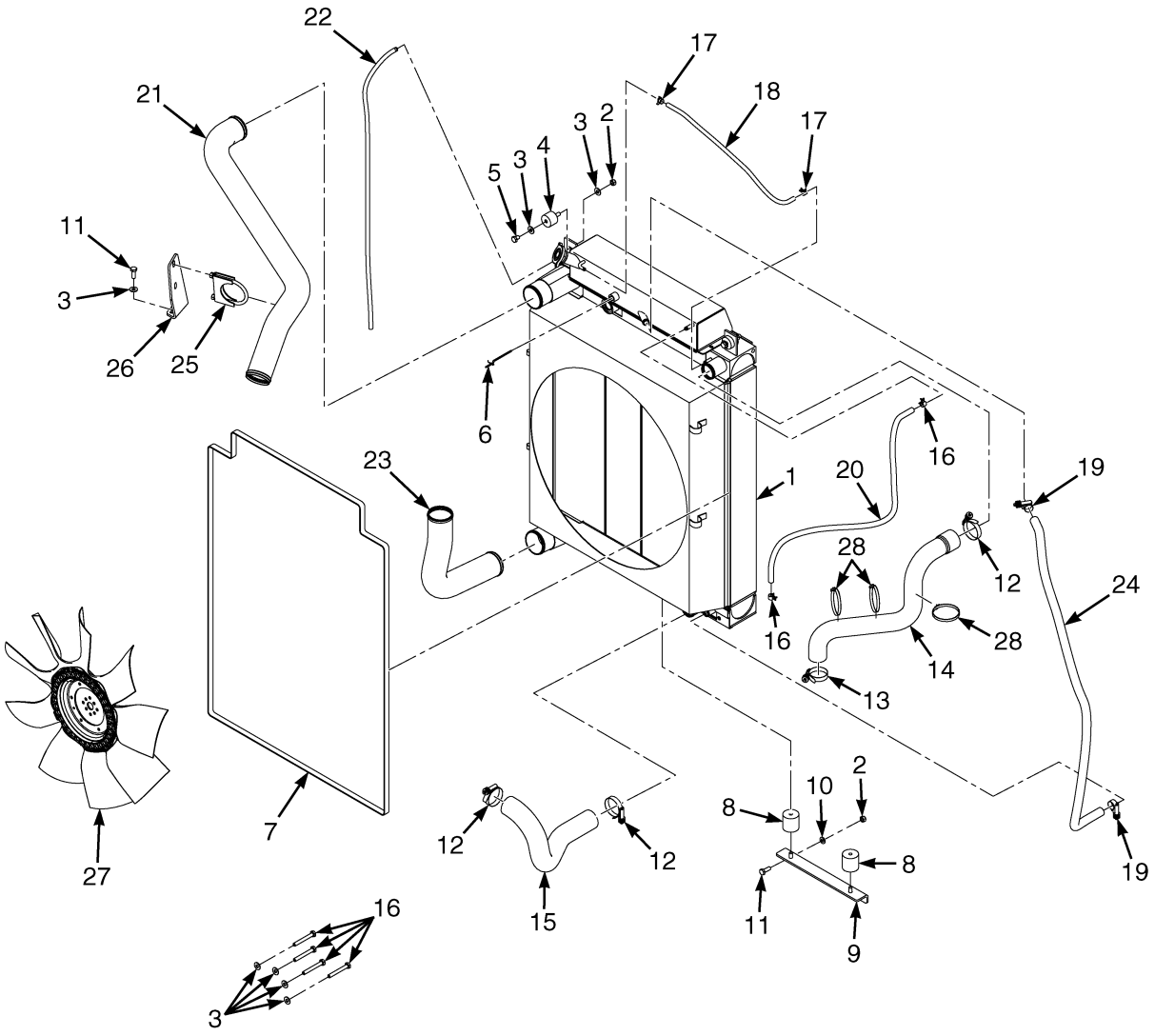
COOLING SYSTEM (FIGURE 2-6)
TIER III ENGINE



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COOLING SYSTEM
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1670401	Radiator (☞Figure 2-8)	1
2	302401	Locknut	5
3	320160	Washer	10
4	1597192	Isolator	2
5	292513	Capscrew	2
6	1531404	Sensor (Low Coolant Level)	1
7	1629085	Tape (Foam Rubber)	1
8	376649	Isolator	2
9	4018038	Plate Wldmt	1
10	320159	Washer	3
11	136985	Capscrew	5
12	4018397	Hose Clamp	3
13	4018396	Hose Clamp	1
14	1592800	Radiator Hose	1
15	1592801	Radiator Hose	1
16	1502004	Hose Clamp	2
17	1625338	Hose Clamp	2
18	392800	Hose	1
19	4018395	Hose Clamp	2
20	85765	Hose	1
20	4629288	Hose (Alternate Part)	1
21	1592831	Tube	1
22	2082967	Hose	1
23	1670380	Tube	1
24	174166	Hose	1
24	4080057	Hose (Alternate Part)	1
25	321113	Clamp	1
26	1641682	Plate	1
27	1598544	Fan	1
28	129563	Strap Clamp	3

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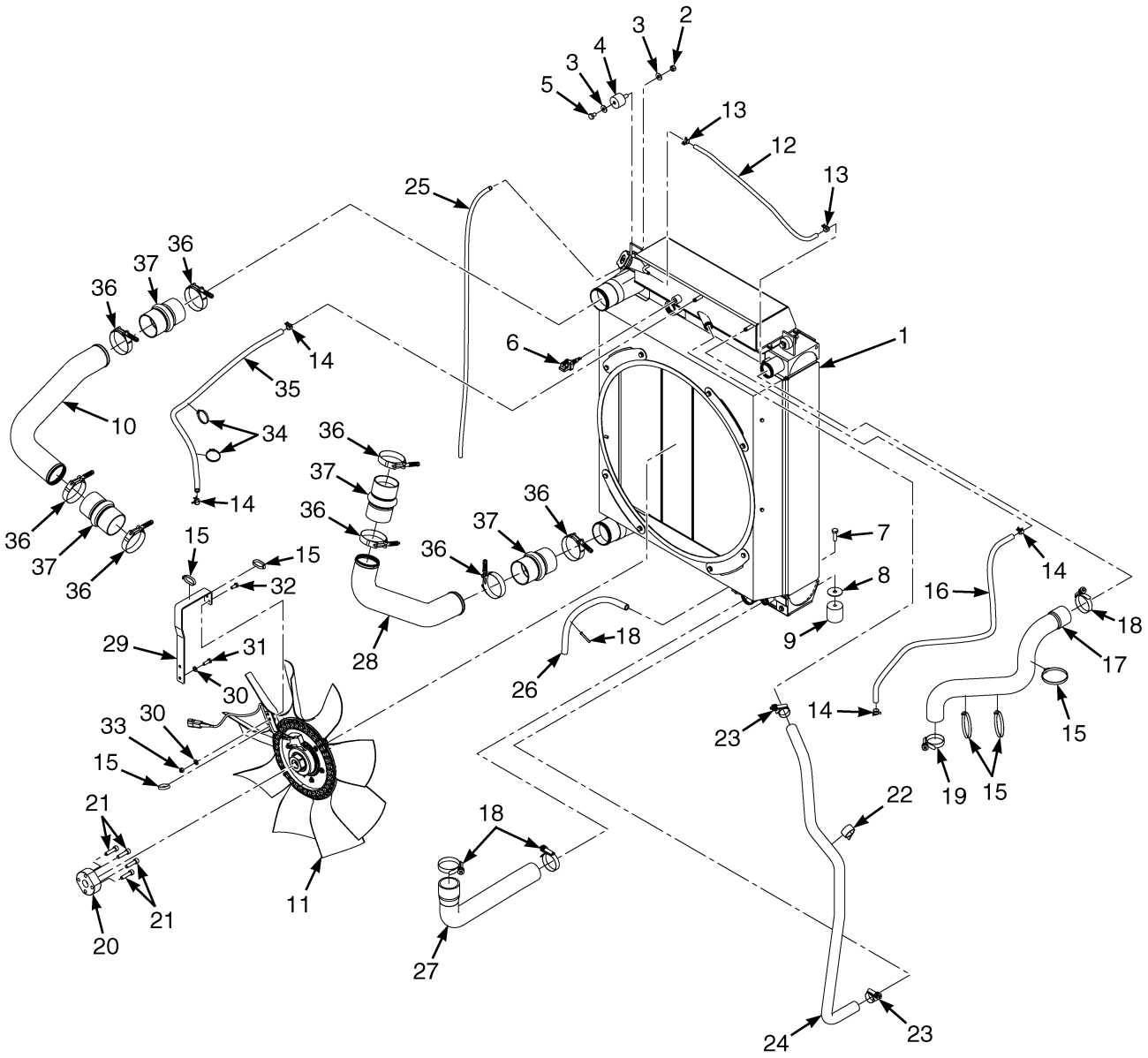
COOLING SYSTEM (FIGURE 2-7)
TIER IV INTERIM ENGINE



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COOLING SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	**a** 4011451	Radiator and Cooler Assembly (☞Figure 2-9)	1
1	**b** 4038521	Radiator and Cooler Assembly (☞Figure 2-9)	1
2	302401	Locknut	2
3	320160	Washer	4
4	1597192	Isolator	2
5	292513	Capscrew	2
6	1689881	Sensor (Coolant Level)	1
7	287860	Capscrew	2
8	1709700	Shim	2
9	376649	Isolator	2
10	4013834	Tube	1
11	4015027	Fan Assembly	1
11	4034996	Fan	1
11	4034997	Fan Clutch	1
11	4034995	Screw	6
11	4034998	Kit-Bracket	1
11	1525589	Connector (6-Pin)	1
11	1330437	Terminal (Pin)	5
11	1330417	Connector (Secondary Lock)	1
11	1330439	Plug	1
12	392800	Hose	1
13	1625338	Hose Clamp	2
14	1569616	Hose Clamp	5
15	129563	Strap Clamp	6
16	85765	Hose	1
16	4629288	Hose (Alternate Part)	1
17	4023651	Hose	1
18	4018397	Hose Clamp	3
19	4018396	Hose Clamp	1
20	4014667	Spacer	1
21	296028	Capscrew	4
22	210403	Clamp	2
23	4018395	Hose Clamp	2
24	**a** 4023281	Hose	1
24	**b** 4034009	Hose	1
25	2082967	Hose	1
26	4037296	Hose	1
27	4018213	Hose	1
28	4009819	Tube	1
29	4015591	Bracket (Shown)	1
29	4043559	Bracket (Alternate Part) (Not Shown)	1
30	320157	Washer	3
31	136749	Screw	2
32	136681	Capscrew	1
33	302400	Nut	1
34	137852	Strap Clamp	2
35	1457330	Hose	1
35	4079760	Hose (Alternate Part)	1
36	1612634	Clamp	8

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COOLING SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
37	1524553	Hose (Charge Air Cooler)	4

FOOTNOTES:

a → S/N B236E01566K

b S/N B236E01567K →

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NOTES

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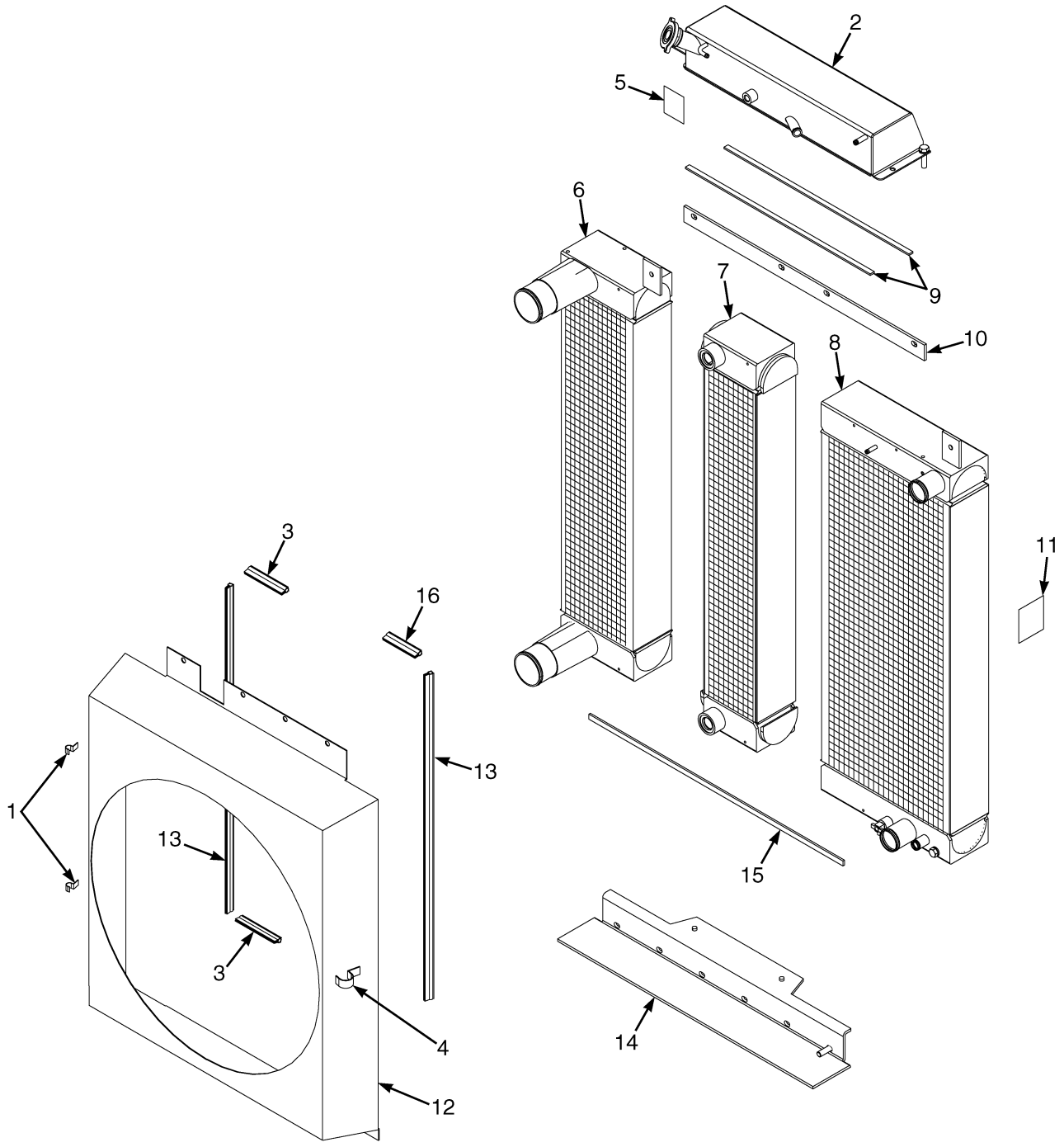
RADIATOR AND COOLER ASSEMBLY (FIGURE 2-8)
TIER III ENGINE



HP060077

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RADIATOR AND COOLER ASSEMBLY
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1670401	Radiator	1
1	1661549	Clip	2
2	1636885	Tank	1
3	1661551	Gasket (Rubber)	1
4	1661550	Clip	1
5	. . . . .	Nameplate	1
6	1686954	Air Cooler	1
7	1636880	Oil Cooler (Transmission Oil)	1
8	1636881	Radiator	1
9	1661553	Gasket (Foam)	2
10	1636887	Plate	1
11	. . . . .	Nameplate	1
12	1636884	Shroud	1
13	1661552	Gasket (Rubber)	2
14	1636886	Baseplate	1
15	1661554	Gasket (Rubber)	1
16	1636890	Gasket (Rubber)	1

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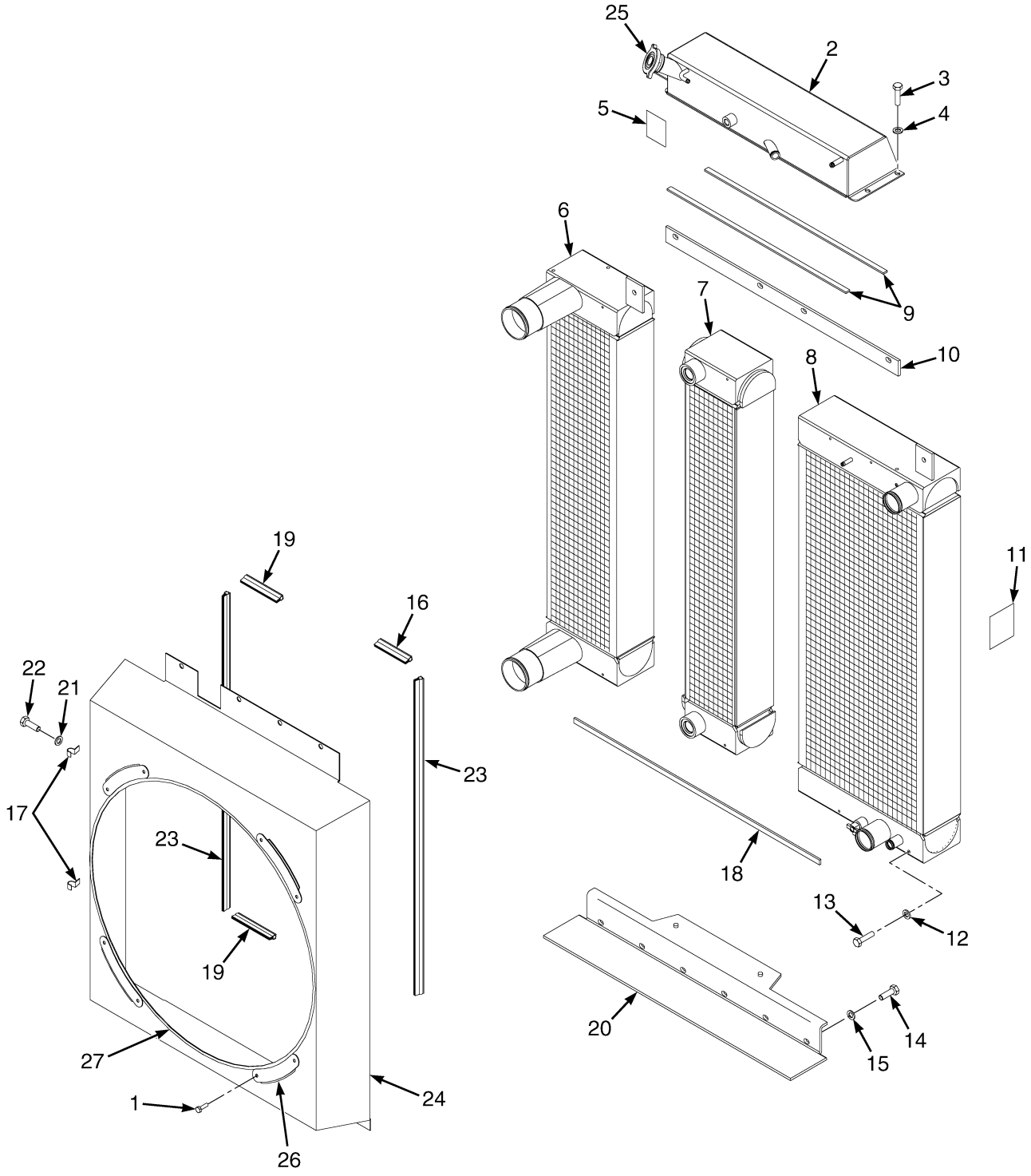
RADIATOR AND COOLER ASSEMBLY (FIGURE 2-9)
TIER IV INTERIM ENGINE



HP060078

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RADIATOR AND COOLER ASSEMBLY
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4011451	Radiator and Cooler Assembly	1
	b 4038521	Radiator and Cooler Assembly	1
1	4025089	Bolt	8
2	**a** 4025087	Tank	1
2	**b** 4036934	Tank	1
3	1636904	Bolt	4
4	1636903	Washer	12
5	. . . . .	Nameplate	1
6	4025085	Air Cooler	1
7	4025083	Oil Cooler	1
8	4025084	Radiator	1
9	1661553	Gasket (Foam)	2
10	**a** 1636887	Plate	1
10	**b** 4029454	Bracket	1
11	. . . . .	Nameplate	1
12	1636905	Washer	8
13	1636906	Bolt	8
14	1636898	Bolt	9
15	1636897	Washer	9
16	1636890	Gasket (Rubber)	1
17	1661549	Clip	2
18	1661554	Gasket (Rubber)	1
19	1661551	Gasket (Rubber)	2
20	4025088	Plate	1
21	1660346	Washer	2
22	1636900	Bolt	2
23	1661552	Gasket (Rubber)	1
24	4025086	Shroud	1
25	4032053	Radiator Cap	1
26	**b** 4041518	Bracket	4
27	**b** 4041519	Ring (Shroud)	1

FOOTNOTES:

a → S/N B236E01566K

b S/N B236E01567K →

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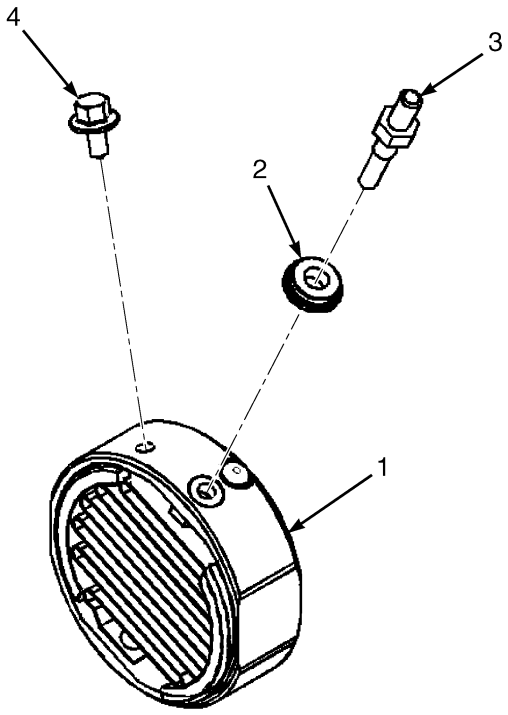
AIR HEATER STARTING AID (FIGURE 2-10)

TIER III ENGINE



BP090544

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~4056507~~		
	1661077	Starting Aid	1
2	1635363	Retainer	1
3	1661074	Capscrew	1
4	1513836	Screw	1

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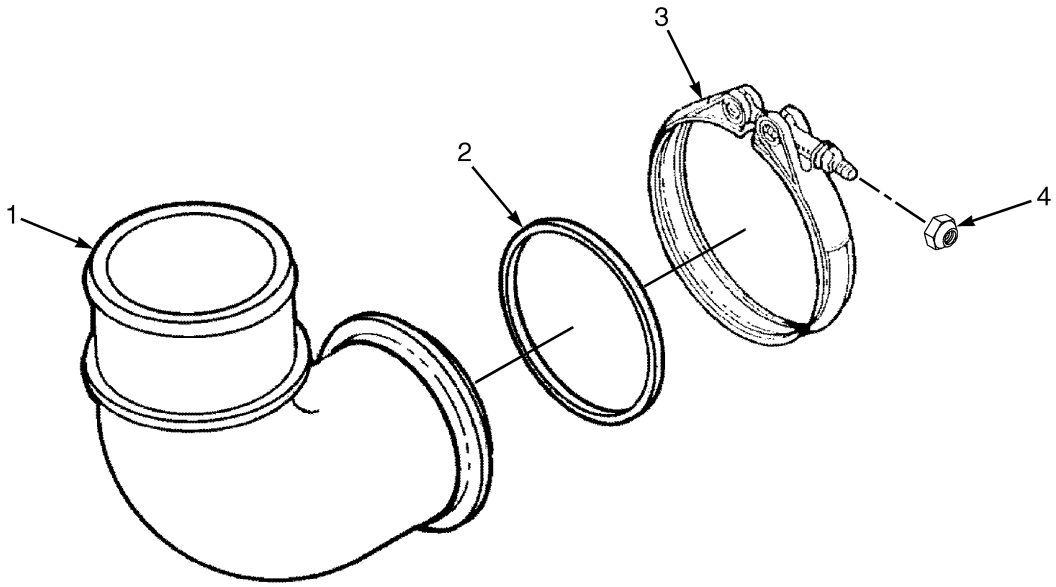
AIR INTAKE CONNECTION (FIGURE 2-11)

TIER III ENGINE



HP091346

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635412	Pipe (Air Transfer)	1
2	1635251	O-Ring	1
3	1635320	Clamp	1
4	1517094	Locknut	1

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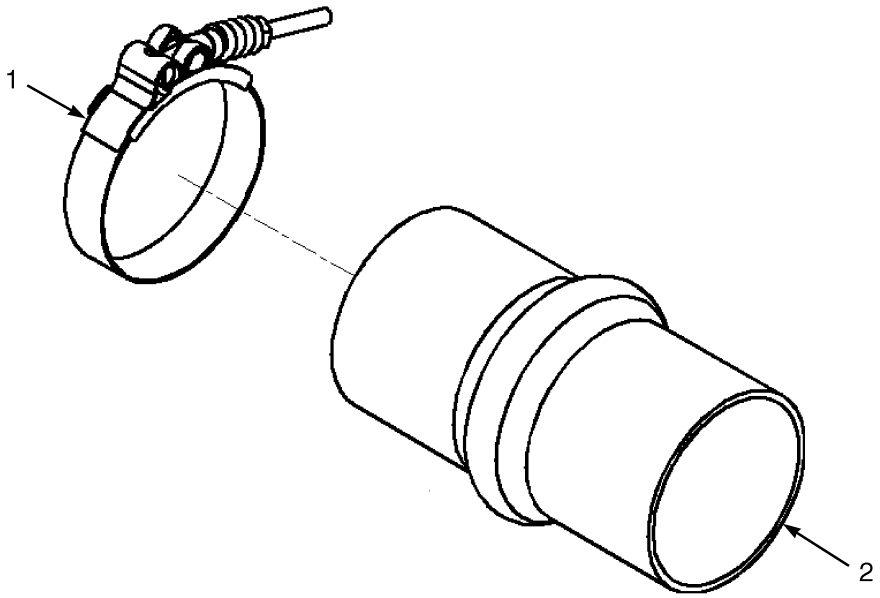
AIR INTAKE HOSE (FIGURE 2-12)
TIER III ENGINE



HP091345

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1521889	Clamp	8
2	1521888	Hose	4

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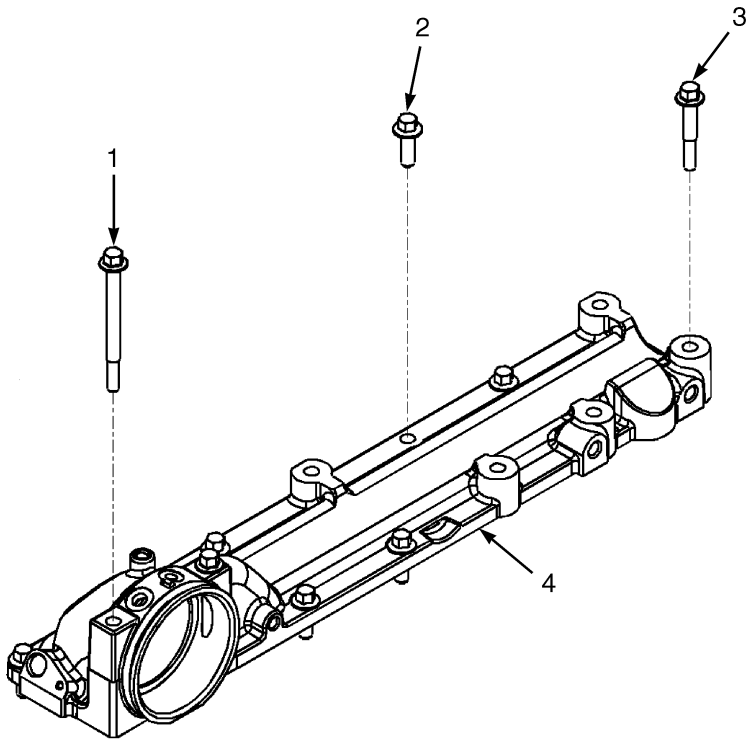
AIR INTAKE MANIFOLD (FIGURE 2-13)
TIER III ENGINE



HP091348

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512296	Capscrew	2
2	1512295	Capscrew	7
3	1513725	Capscrew	1
4	1707047	Intake Manifold	1

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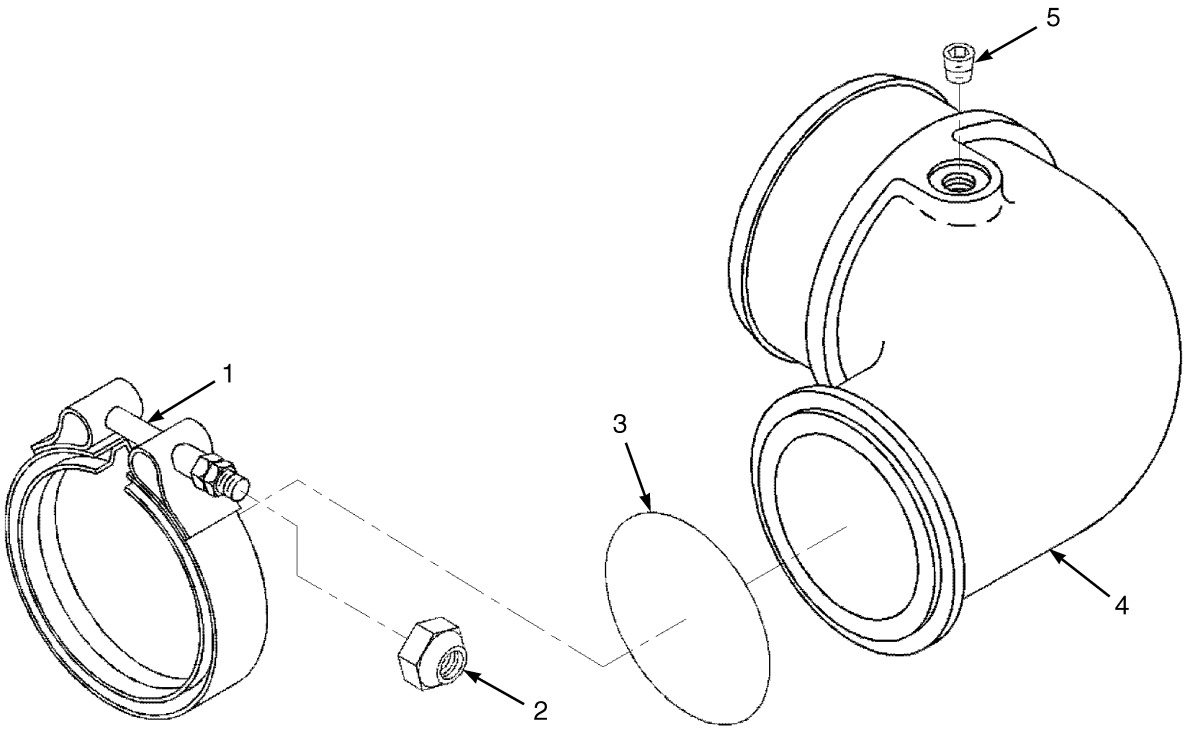
AIR TRANSFER CONNECTION (FIGURE 2-14)
TIER III ENGINE



HP091349

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1597806	Clamp	1
2	1517094	Locknut	1
3	1515787	O-Ring	1
4	1521891	Pipe	1
5	1513191	Fitting	1

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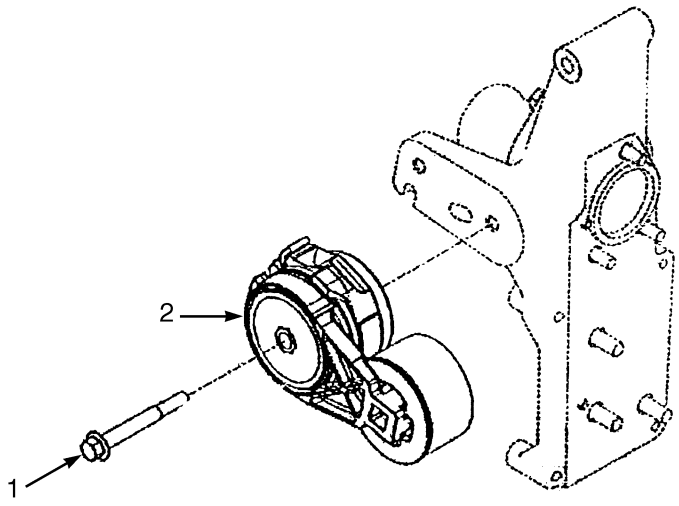
BELT TENSIONER (FIGURE 2-15)
TIER III ENGINE



HP091364

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1521938	Capscrew	1
2	1635318	Belt Tensioner	1

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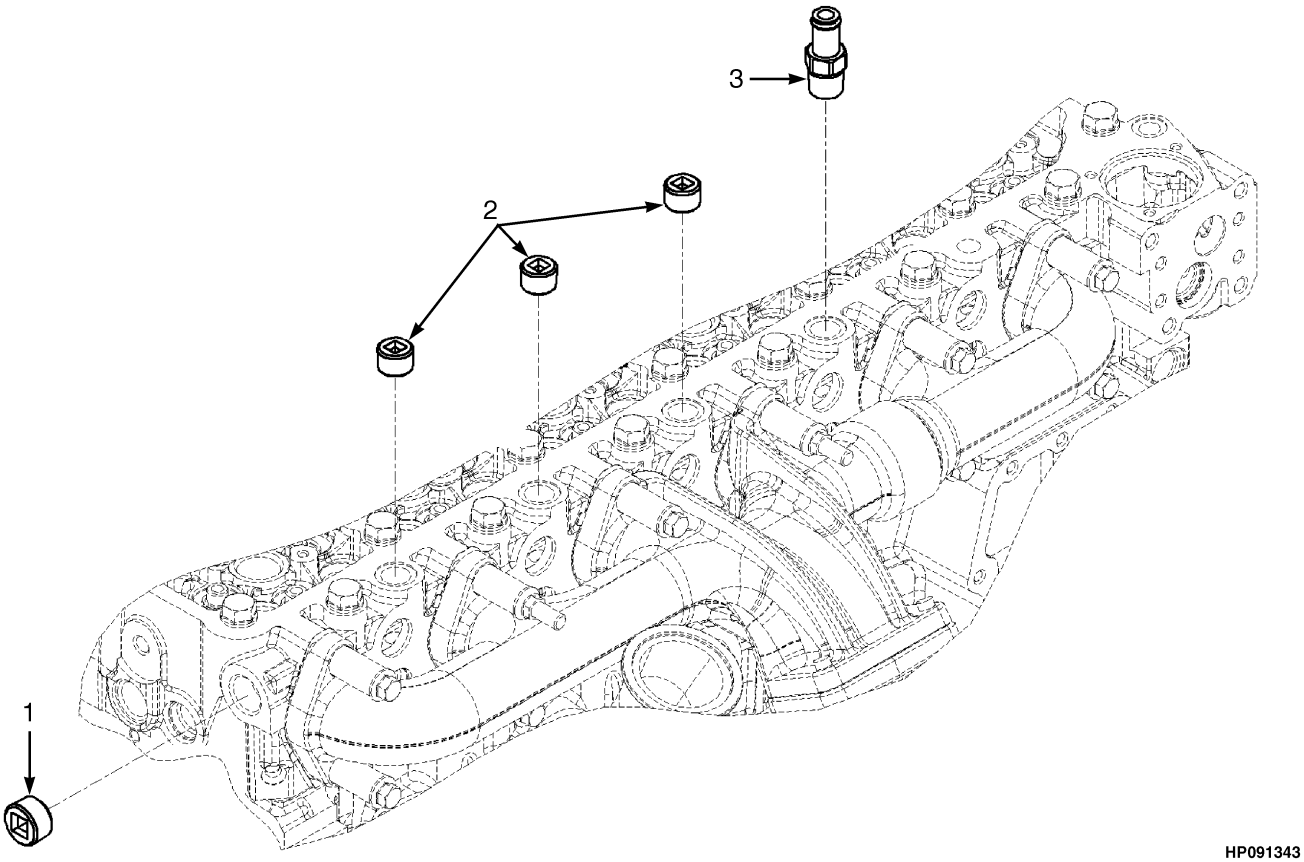
CAB HEATER PLUMBING (FIGURE 2-16)

TIER III ENGINE



HP091343

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1644095	Fitting	1
2	1689641	Plug	3
3	~~1521882~~		
	1702101	Coupling	1

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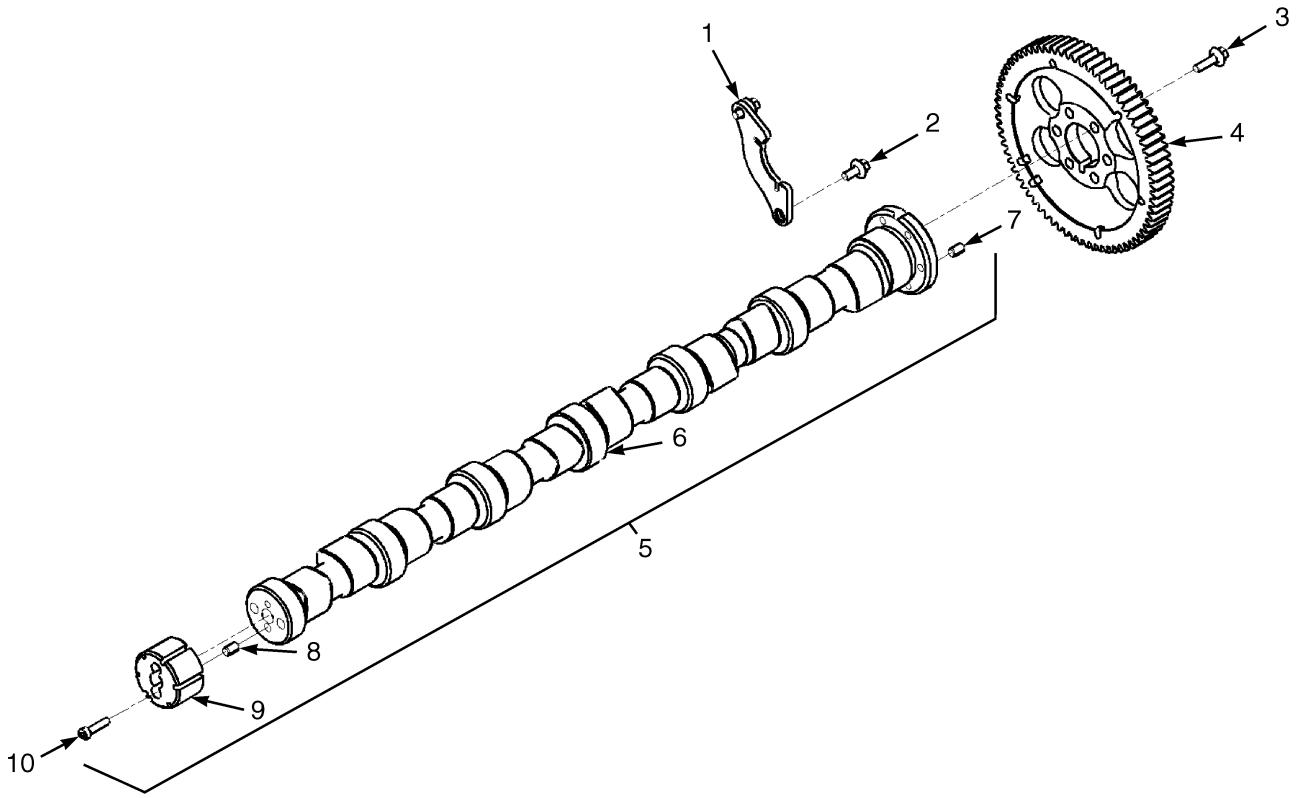
CAMSHAFT (FIGURE 2-17)
TIER III ENGINE



HP091353

ITEM	PART NO.	DESCRIPTION	QTY
	1692948	Engine Assy	1
	1692949	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1635369~~		
	4033353	Support	1
2	1513749	Capscrew	2
3	~~1691854~~		
	1597807	Capscrew (Flange)	6
4	4010356	Gear	1
5	. . . . .	Camshaft Assembly	1
6	1635340	Camshaft	1
7	1514346	Dowel	1
8	1635269	Ring , Dowel	1
9	1635272	Ring , Speed Indicator	1
10	1635362	Capscrew	2

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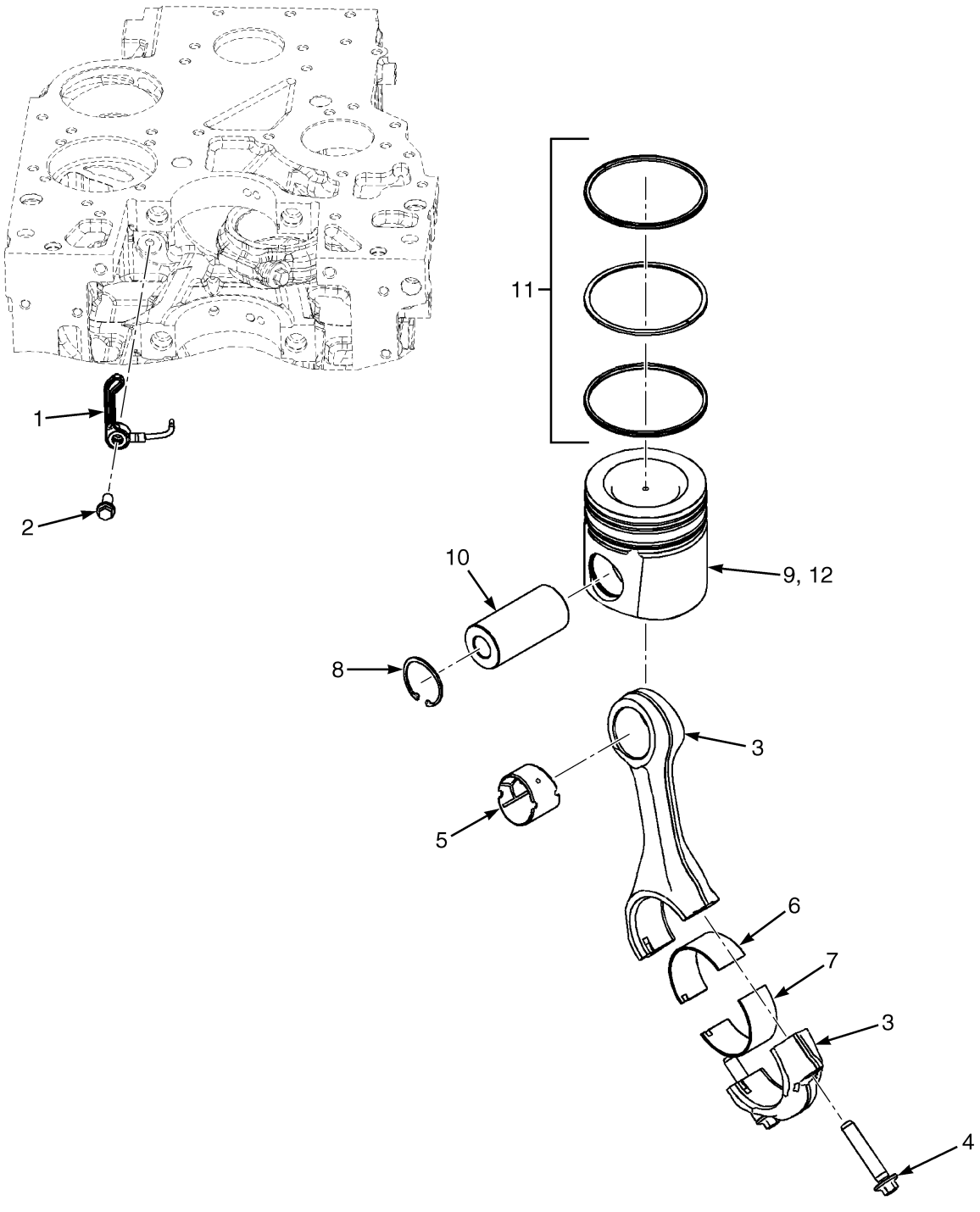
CONNECTING RODS AND PISTONS (FIGURE 2-18)
TIER III ENGINE



HP091493

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CONNECTING RODS AND PISTONS
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1635293~~		
	1661211	Nozzle (Piston Cooling)	6
2	1635282	Screw (Banjo Connector)	6
3	1696686	Rod (Assembly)	6
4	1553261	Capscrew	2
5	1553262	Bushing	1
6	1635295	Bearing (Standard)	6
6	~~1512150~~		
	1638419	Bearing (.010 in.)	AR
6	~~1512151~~		
	1638420	Bearing (.020 in.)	AR
6	~~1512152~~		
	1638421	Bearing (.030 in.)	AR
6	~~1512153~~		
	1638422	Bearing (.040 in.)	AR
7	1543445	Bearing (Standard)	6
7	1584817	Bearing (.010 in.)	AR
7	1584818	Bearing (.020 in.)	AR
7	1584819	Bearing (.030 in.)	AR
7	1584820	Bearing (.040 in.)	AR
8	1512146	Retaining Ring	12
9	1661209	Kit-Piston (Standard)	6
9	1638703	Piston Ring (Oil)	1
10	1635400	Pin	1
11	1661210	Kit-Piston Ring	1
12	. . . . .	Piston (0.50 mm O/S)	6

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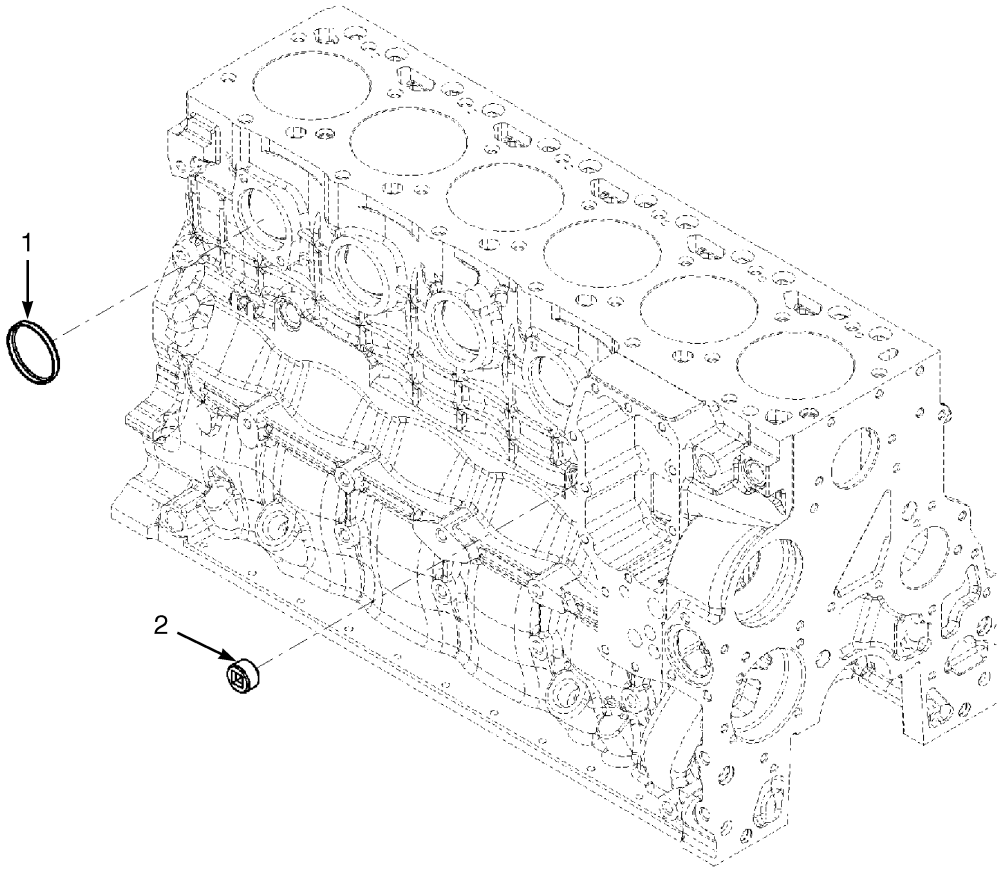
COOLANT HEATER STARTING AID (FIGURE 2-19)
TIER III ENGINE



HP091331

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1618178~~		
	1661086	Plug (Expansion)	1
2	1644095	Fitting	1

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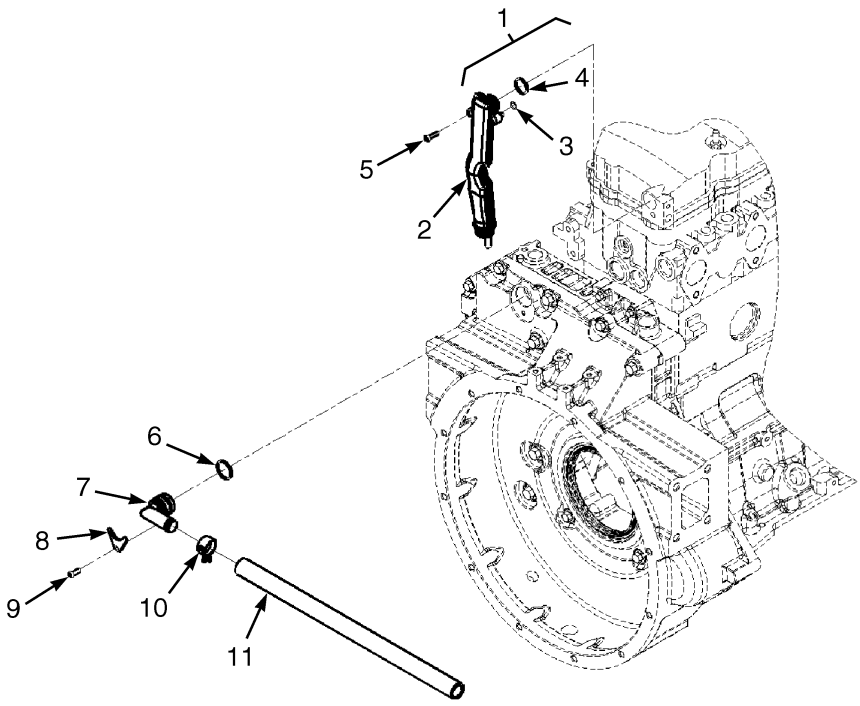
CRANKCASE BREATHER (FIGURE 2-20)
TIER III ENGINE



HP091329

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635298	Tube Assy	1
2	. . . . .	Tube	1
3	1635281	O-Ring	2
4	1632984	O-Ring	1
5	1637795	Capscrew	1
6	1635227	O-Ring	1
7	1635286	Breather	1
8	1635382	Plate	1
9	1635383	Capscrew	1
9	1661085	Capscrew (Alternate Part)	1
10	1635259	Hose Clamp	1
11	1511972	Hose	1

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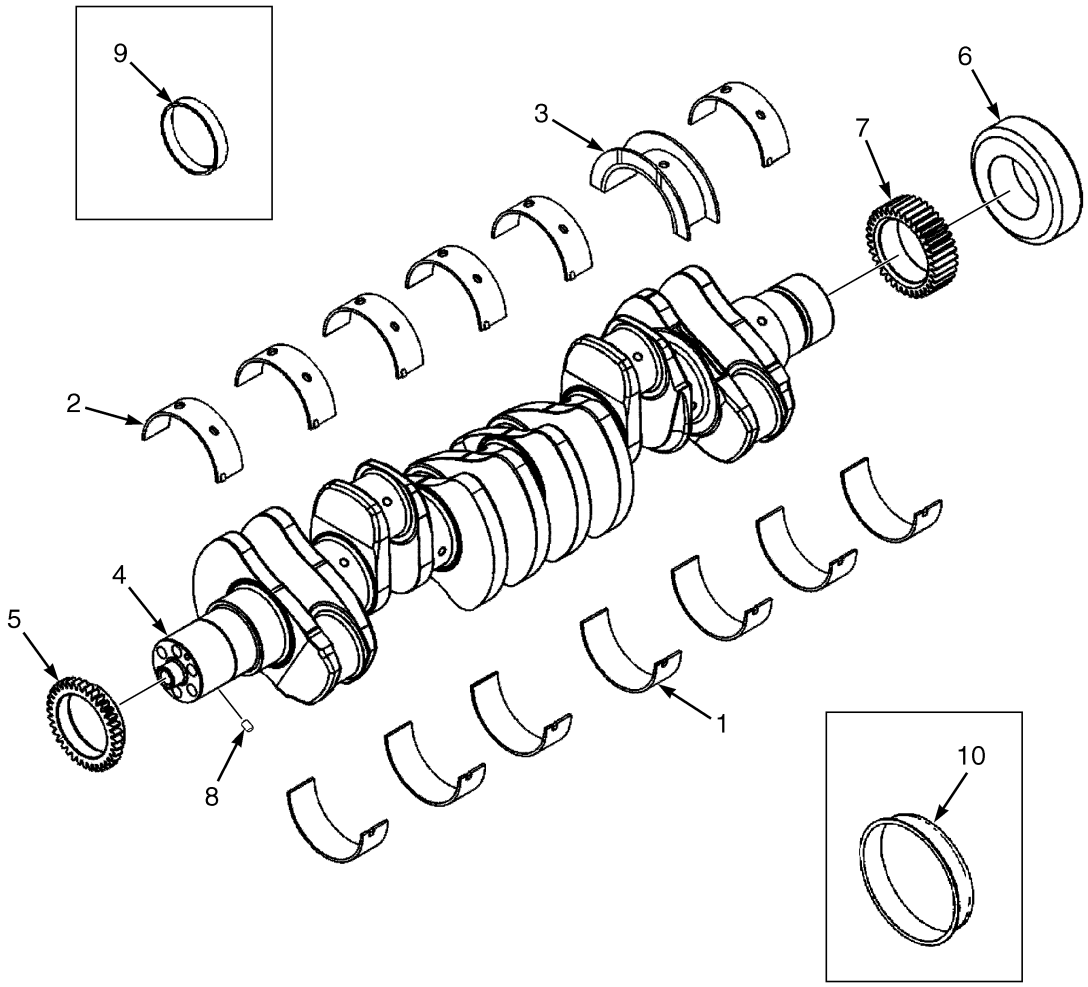
CRANKSHAFT AND BEARINGS (FIGURE 2-21)
TIER III ENGINE



HP091427

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CRANKSHAFT AND BEARINGS
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
	4007469	Bearing Set (Standard)	1
	4007075	Bearing Set (0.25 mm O/S)	1
	1707619	Bearing Set (0.50 mm O/S)	1
	4007466	Bearing Set (0.75 mm O/S)	1
	1708510	Bearing Set (1.00 mm O/S)	1
1	. . . . .	Standard Bearing (Lower)	7
1	4007465	Bearing , Main (Lower) (0.25 mm O/S) (Lower)	7
1	1707622	Bearing , Main (Lower) (0.50 mm O/S) (Lower)	7
1	4007468	Bearing , Main (Lower) (0.75 mm O/S) (Lower)	7
1	1708513	Bearing , Main (Lower) (1.00 mm O/S) (Lower)	7
2	. . . . .	Standard Bearing (Upper)	6
2	1585002	Bearing (0.25 mm O/S) (Upper)	6
2	1707620	Bearing , Main (Upper) (0.50 mm O/S) (Upper)	6
2	4007946	Bearing , Main (Upper) (0.75 mm O/S) (Upper)	6
2	1708511	Bearing , Main (Upper) (1.00 mm O/S) (Upper)	6
3	. . . . .	Standard Thrust Bearing	1
3	4007464	Thrust Bearing (0.25 mm O/S)	1
3	1707621	Thrust Bearing (0.50 mm O/S)	1
3	4007945	Thrust Bearing (0.75 mm O/S)	1
3	1708512	Thrust Bearing (1.00 mm O/S)	1
4	~~1635310~~ ~~1701994~~ 4155400	Crankshaft	1
5	. . . . .	Gear	1
6	. . . . .	Collar	1
7	. . . . .	Gear	1
8	1661441	Dowel	1
9	1514354	Kit - Rear Crankshaft Seal and Wear Sleeve	1
10	1554045	Kit - Front Crankshaft Seal and Wear Sleeve	1

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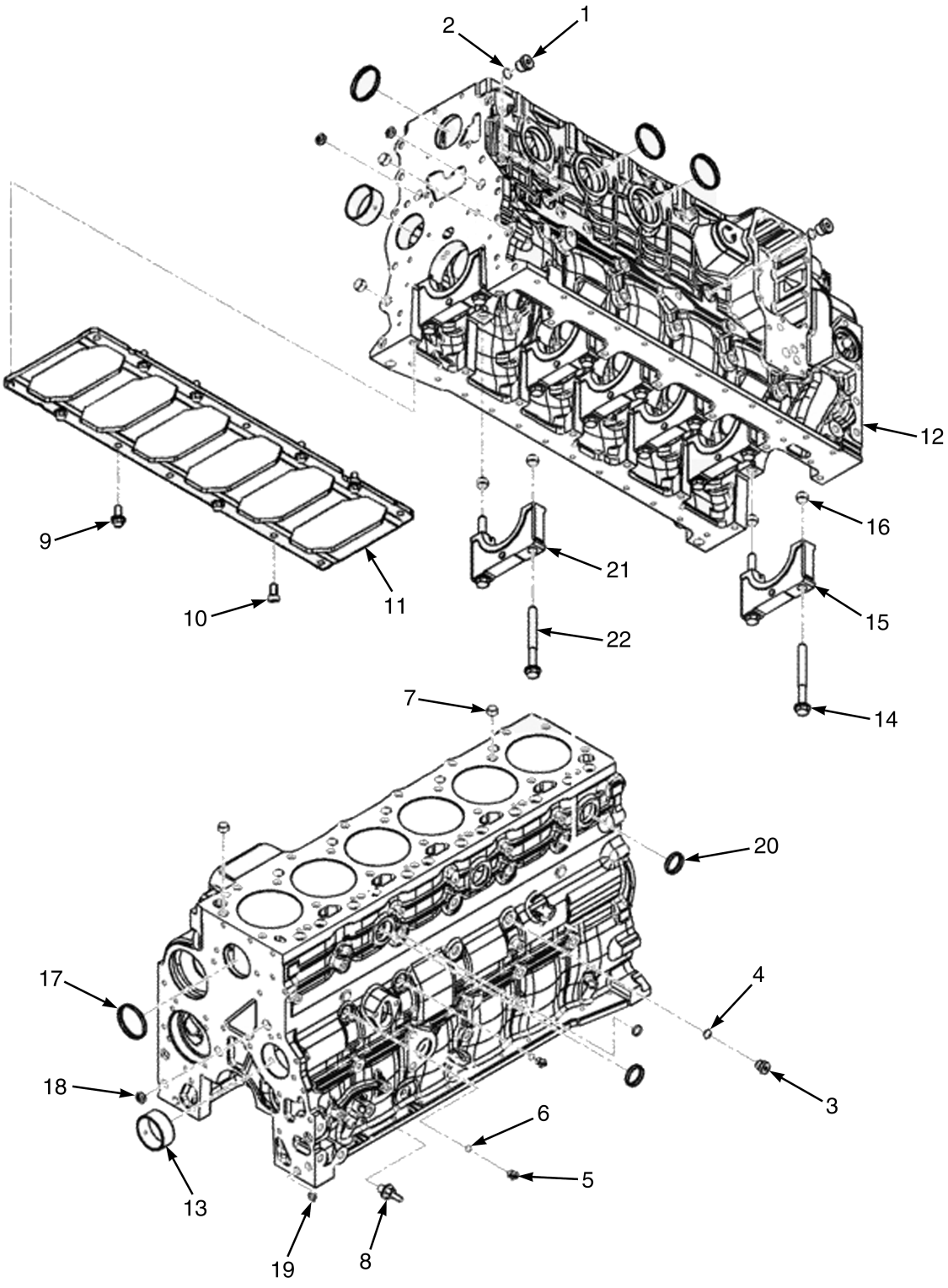
CYLINDER BLOCK (FIGURE 2-22)
TIER III ENGINE



HP091465

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CYLINDER BLOCK
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1515897	Plug Assembly	2
2	1515898	O-Ring	1
3	1521695	Plug Assembly	1
4	1517119	O-Ring	1
5	1517010	Plug	1
6	1517011	O-Ring	1
7	1521691	Dowel	2
8	1661440	Capscrew	2
9	1512503	Capscrew	10
10	1640824	Capscrew	1
11	~~1638696~~		
	1635423	Plate (Stiffener)	1
12	4006371	Cylinder Block	1
12	4036801	Kit-Cylinder Block (Alternate Part)	1
12	4006372	Cylinder Block	1
13	1521682	Bushing	2
14	1521683	Capscrew	14
15	1635307	Cap (Main Bearing)	6
16	1521685	Ring , Dowel	2
17	~~1618178~~		
	1661086	Plug	4
18	1512585	Plug	3
19	1512304	Plug	2
20	1513788	Plug	3
21	1635308	Cap (Main Bearing)	1
22	1521685	Ring , Dowel	2

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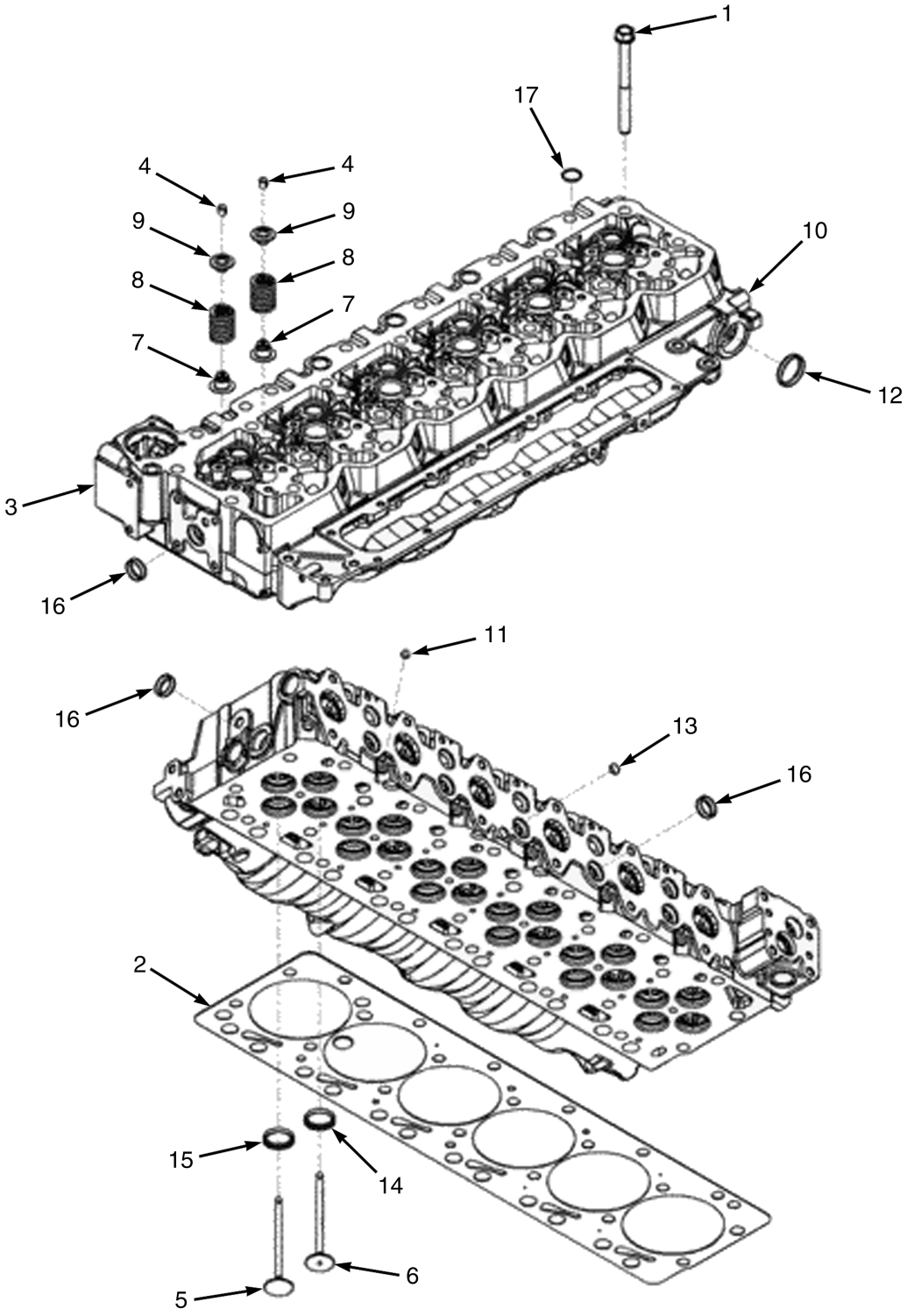
CYLINDER HEAD (FIGURE 2-23)
TIER III ENGINE



HP091494

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CYLINDER HEAD
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692948	Engine Assy	1
	1692949	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1521901	Screw	26
2	1635407	Gasket	1
3	. . . . .	Cylinder Head Assembly	1
4	1521914	Keeper	24
5	1521912	Kit-Valve (Exhaust)	12
6	~~1553873~~		
	1521913	Kit-Valve (Intake)	12
7	~~4104412~~		
	1584922	Seal (Valve Stem)	12
8	~~1661289~~		
	4164161	Spring	24
9	1521915	Retainer	24
10	. . . . .	Cylinder Head	1
11	1512586	Plug	7
12	. . . . .	Plug	2
13	1521919	Plug	2
14	1584925	Insert (Intake)	12
14	1602488	Insert (.005 in.) (Intake) (Optional, O/S)	1
14	1602489	Insert (.010 in.) (Intake) (Optional, O/S)	1
14	1602490	Insert (.020 in.) (Intake) (Optional, O/S)	1
15	~~1602493~~		
	~~4033241~~		
	~~4033240~~		
	4033241	Insert (.020 in.) (Exhaust) (Optional, O/S)	1
15	1635464	Insert (Exhaust)	12
15	~~1602491~~		
	4033239	Insert (.005 in.) (Exhaust) (Optional, O/S)	1
15	~~1602492~~		
	4033240	Insert (.010 in.) (Exhaust) (Optional, O/S)	1
16	1512585	Plug	13
17	1514339	Plug	11
	~~1553873~~		
	1521913	Kit-Valve (Intake)	12

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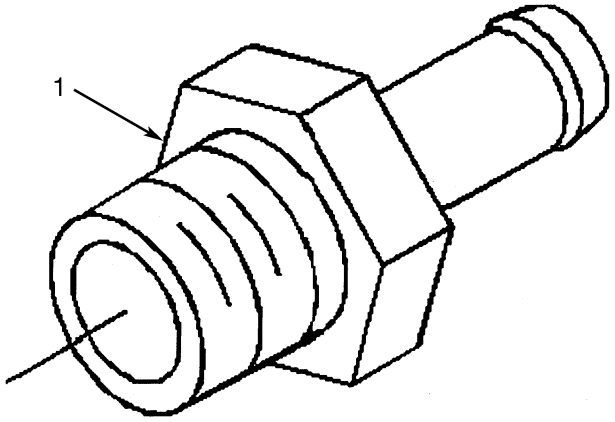
ENGINE COOLANT VENT (FIGURE 2-24)
TIER III ENGINE



HP090908

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1517250	Fitting	1

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NOTES

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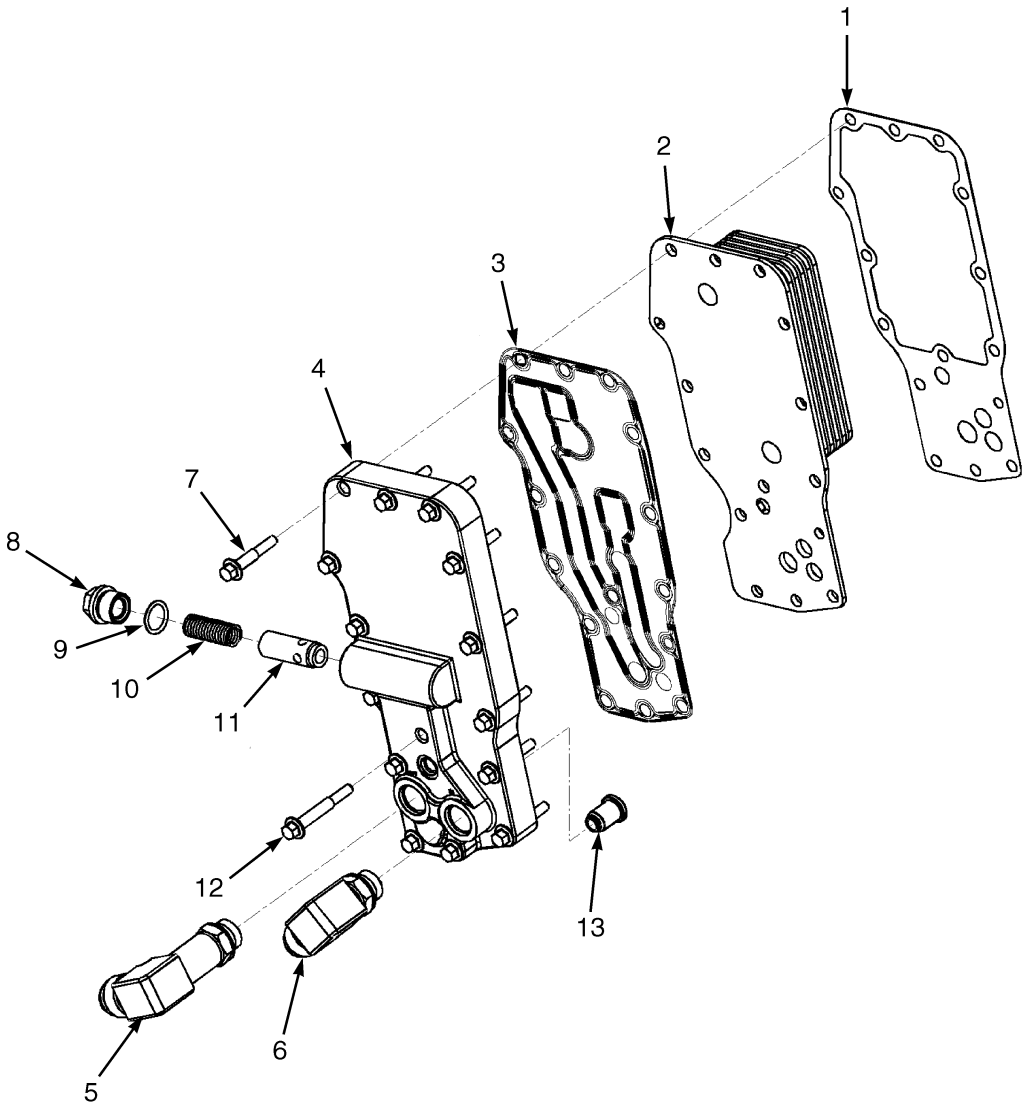
ENGINE OIL COOLER (FIGURE 2-25)
TIER III ENGINE



HP091321

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ENGINE OIL COOLER
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1662313	Gasket	1
2	1635314	Oil Cooler Core	1
3	1702102	Gasket , Filter Head	1
4	1635339	Filter Head	1
5	1635245	Fitting	1
6	1635248	Fitting	1
7	1512111	Capscrew	12
8	1512453	Plug	1
9	1512118	O-Ring	1
10	1512112	Spring , Pressure Regulator	1
11	1512119	Plunger	1
12	1543421	Capscrew	3
13	1513772	Relief Valve (Pressure)	1

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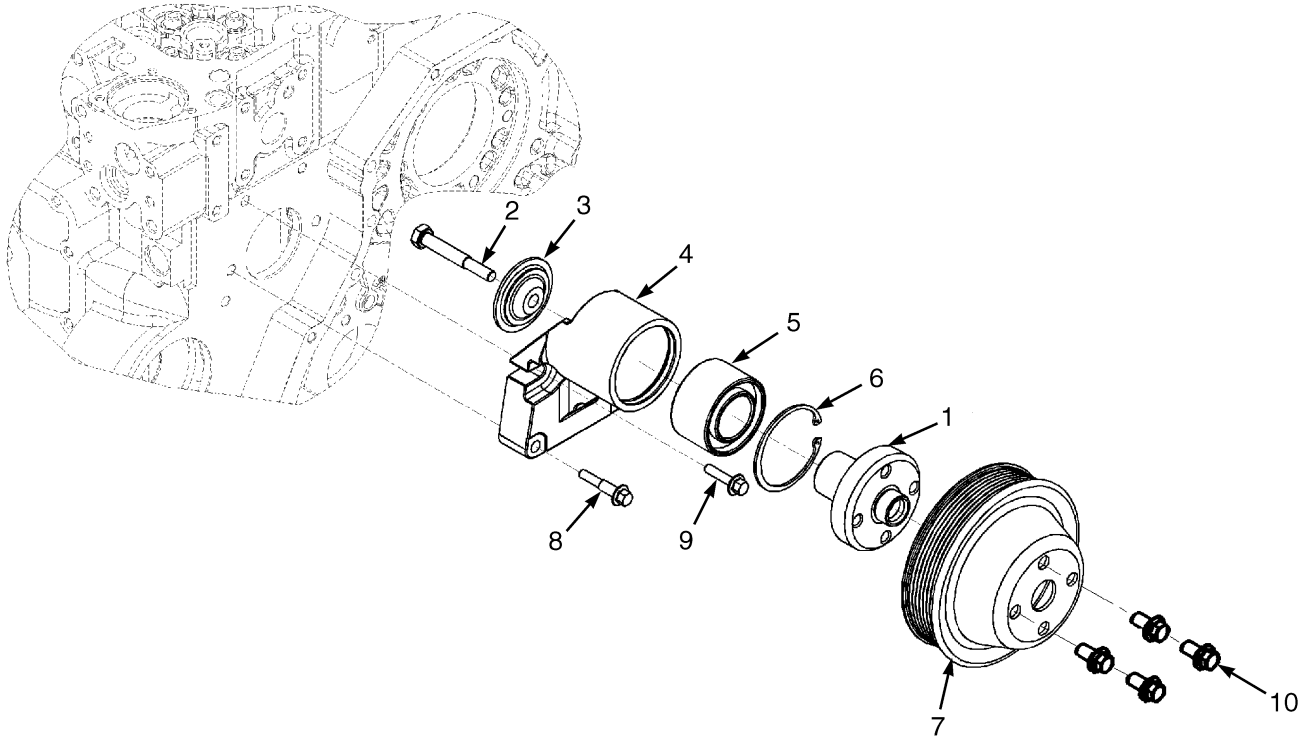
FAN DRIVE AND MOUNTING (FIGURE 2-26)
TIER III ENGINE



HP091335

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
	~~1512424~~		
	4045106	Support Assembly, Fan Mount	1
1	~~1512024~~		
	4045108	Hub	1
2	1512027	Capscrew	1
3	1512025	Hub Retainer	1
4	. . . . .	Support	1
5	4045107	Bearing	1
6	1512026	Retaining Ring	2
7	4009311	Fan Pulley	1
8	1512029	Screw	2
9	1635220	Capscrew	2
10	1512328	Capscrew	4

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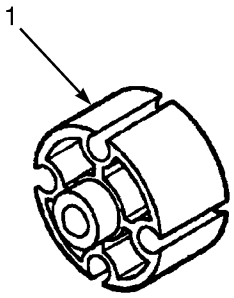
FAN SPACER (FIGURE 2-27)
TIER III ENGINE



HP091501

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512287	Spacer (Fan Pilot) (50.8 mm)	1
1	1672561	Spacer (Fan Pilot) (6.4 mm)	1

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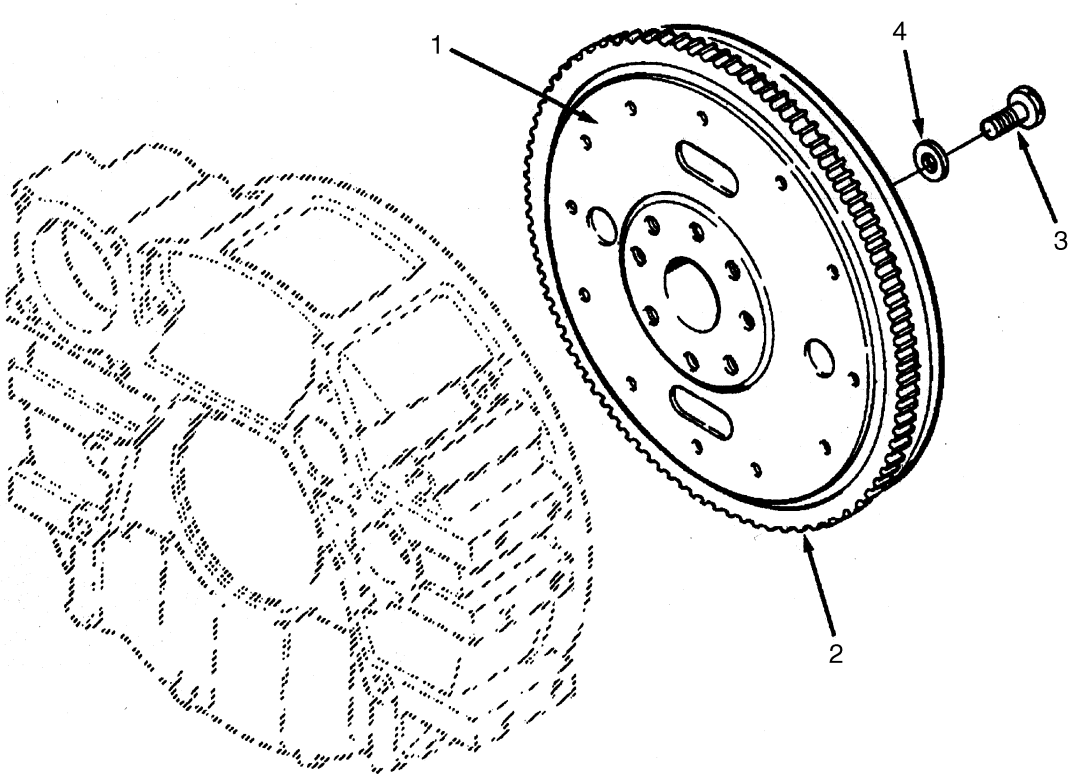
FLYWHEEL AND MOUNTING (FIGURE 2-28)

TIER III ENGINE



HP090879

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1598354	Flywheel Assembly	1
2	1512445	Ring Gear	1
3	1512106	Capscrew	8
4	1512107	Washer	8

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NOTES

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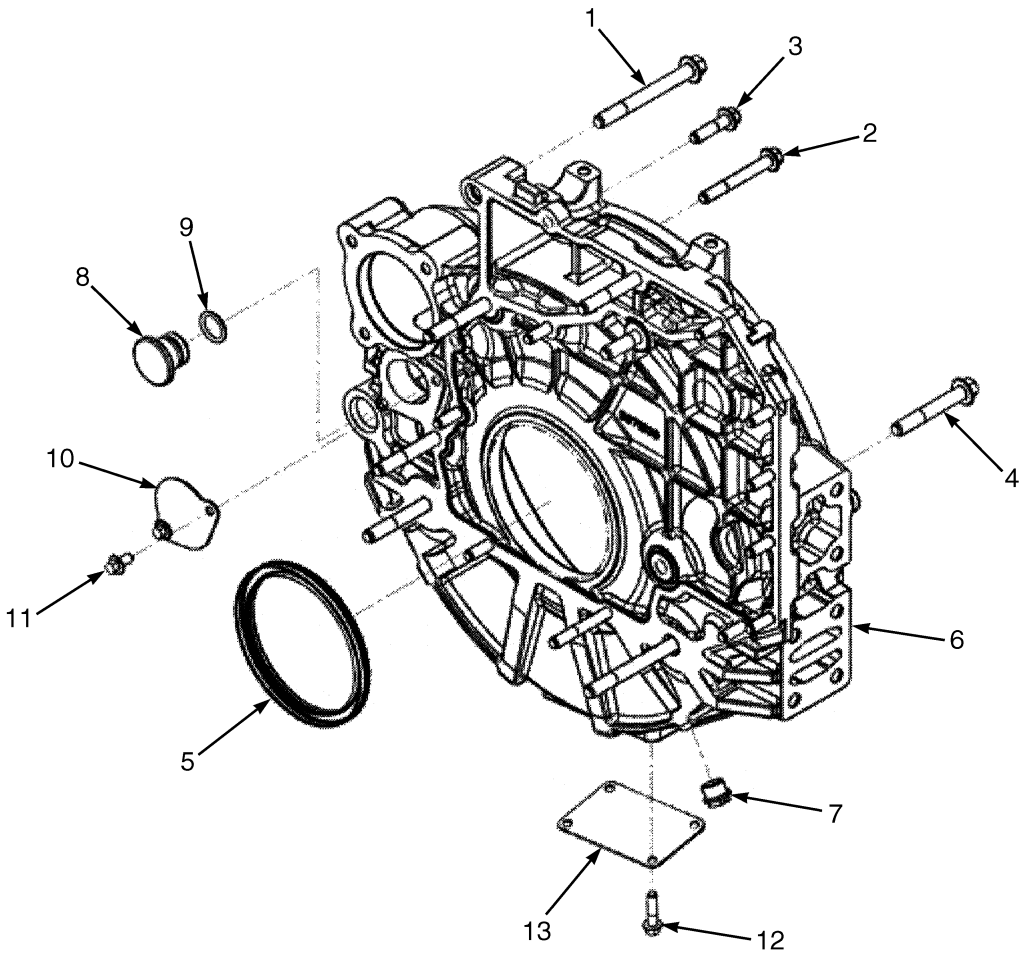
FLYWHEEL HOUSING (FIGURE 2-29)
TIER III ENGINE



BP090445

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FLYWHEEL HOUSING
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635228	Capscrew	2
2	1512316	Screw	2
3	1635255	Capscrew	9
4	1511981	Capscrew	6
5	~~1696745~~		
	4033356	Oil Seal	1
6	4022317	Flywheel Housing Assembly	1
7	1512046	Plug	1
8	1512047	Fitting	1
9	1512048	O-Ring	1
10	1635256	Plate	1
11	1511970	Capscrew	2
12	1512433	Screw	4
13	1512054	Cover Plate	1
	~~1564992~~		
	1512049	Seal Kit (Rear Crank) (Includes Seal Installation Tools)	AR

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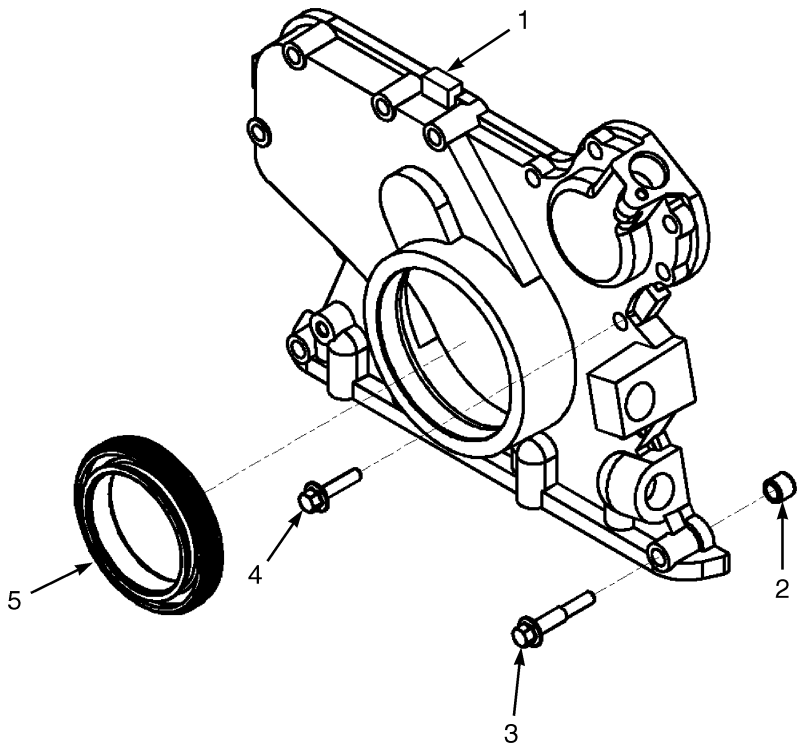
FRONT GEAR COVER (FIGURE 2-30)
TIER III ENGINE



HP091342

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~4086117~~		
	1661070	Cover	1
2	1635266	Ring , Dowel	2
3	1512111	Capscrew	6
4	1512423	Capscrew	7
5	~~1635350~~		
	4163953	Oil Seal	1

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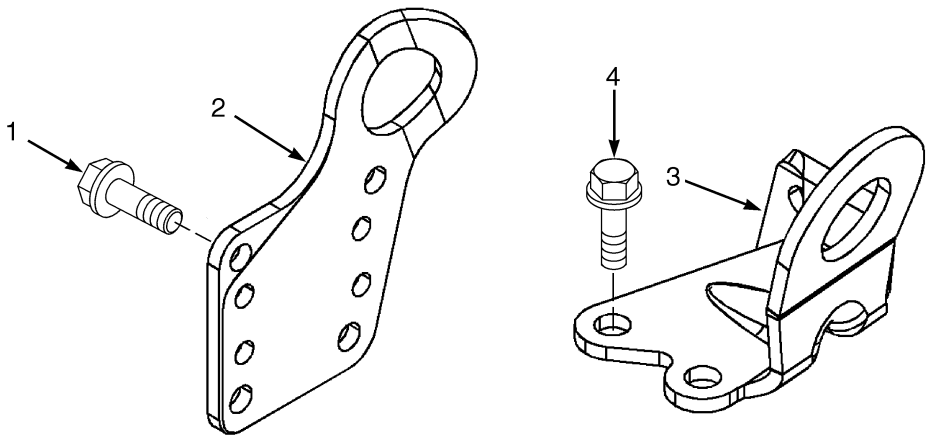
LIFTING BRACKETS AND MOUNTING (FIGURE 2-31)
TIER III ENGINE



HP091347

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635229	Capscrew	4
2	1635357	Bracket	1
3	1661444	Bracket	1
4	1661145	Capscrew	2

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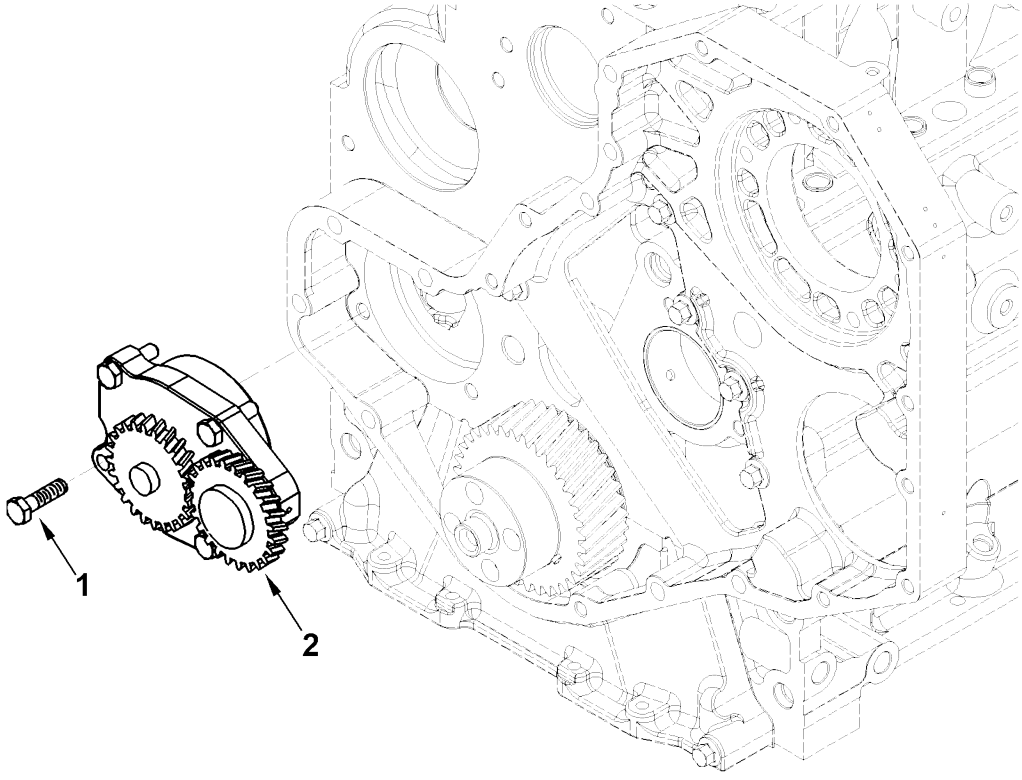
LUBRICATING OIL PUMP (FIGURE 2-32)
TIER III ENGINE



HP091122

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512456	Capscrew	4
2	~~1635299~~		
	~~1702103~~		
	4104390	Oil Pump (Lubricating)	1

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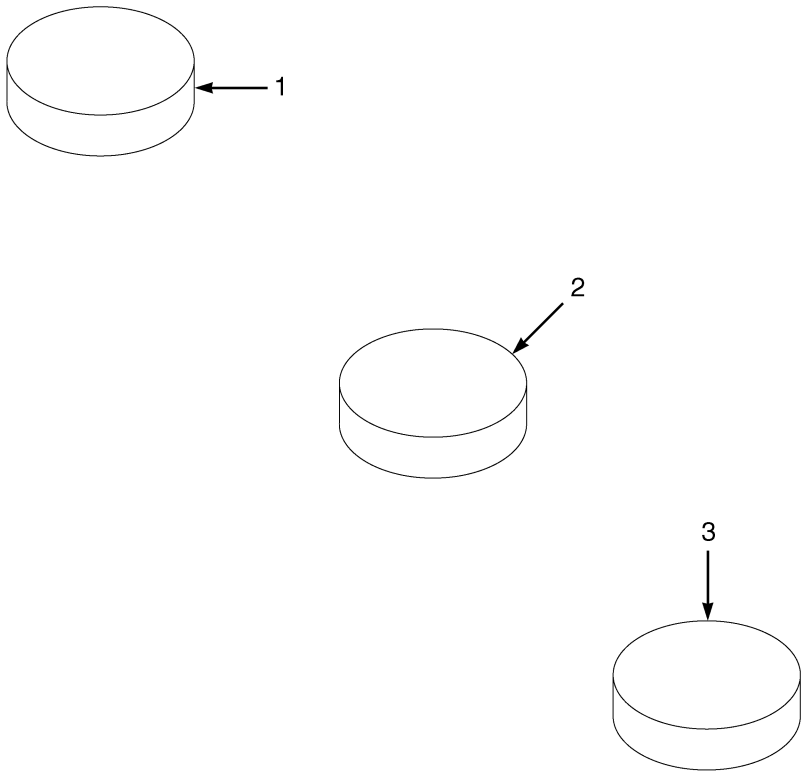
OIL FILLER (FIGURE 2-33)
TIER III ENGINE



HP091357

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635224	Plug	1
2	1521694	Plug	1
3	1514339	Plug	1

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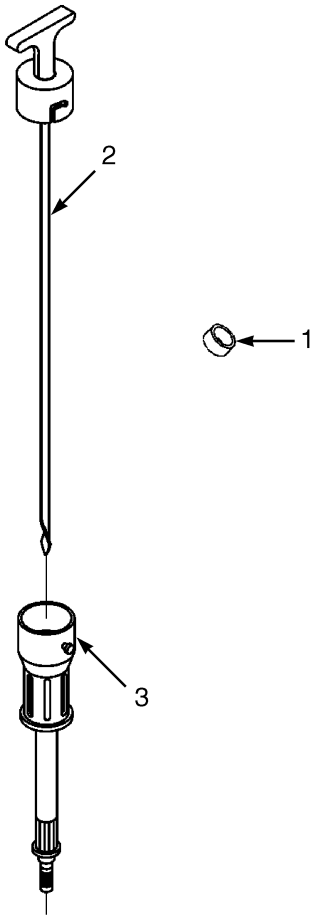
OIL LEVEL GAUGE (FIGURE 2-34)

TIER III ENGINE



HP091351

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512130	Plug (Expansion)	4
2	1635319	Dipstick	1
3	1635309	Dipstick Tube	1

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NOTES

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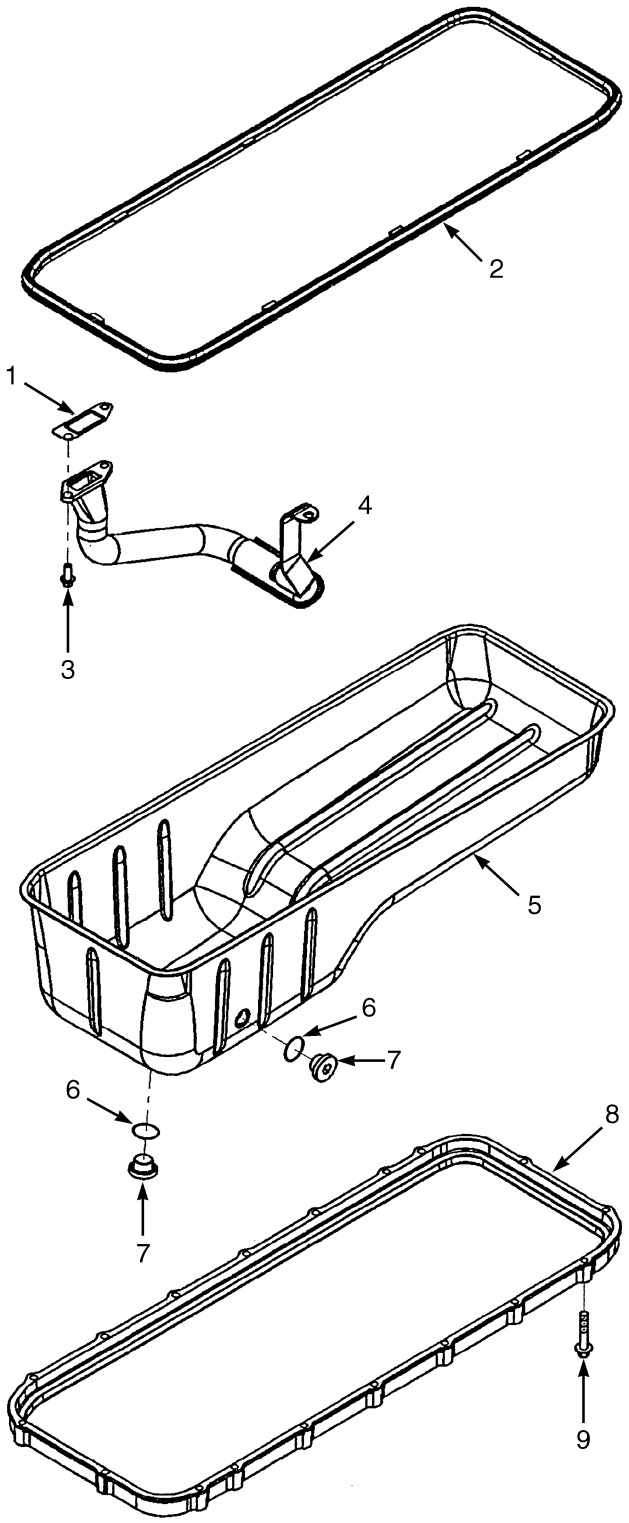
OIL PAN (FIGURE 2-35)
TIER III ENGINE



HP091356

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OIL PAN
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635375	Gasket (Oil Suction Connection)	1
2	~~1635372~~		
	1702106	Gasket (Oil Pan)	1
3	1635225	Capscrew	2
4	1702104	Tube (Oil Suction)	1
5	1635461	Oil Pan Assembly	1
6	1635234	Sealing Ring	2
7	1635233	Plug	2
8	1635371	Adapter	1
9	1512111	Capscrew	18

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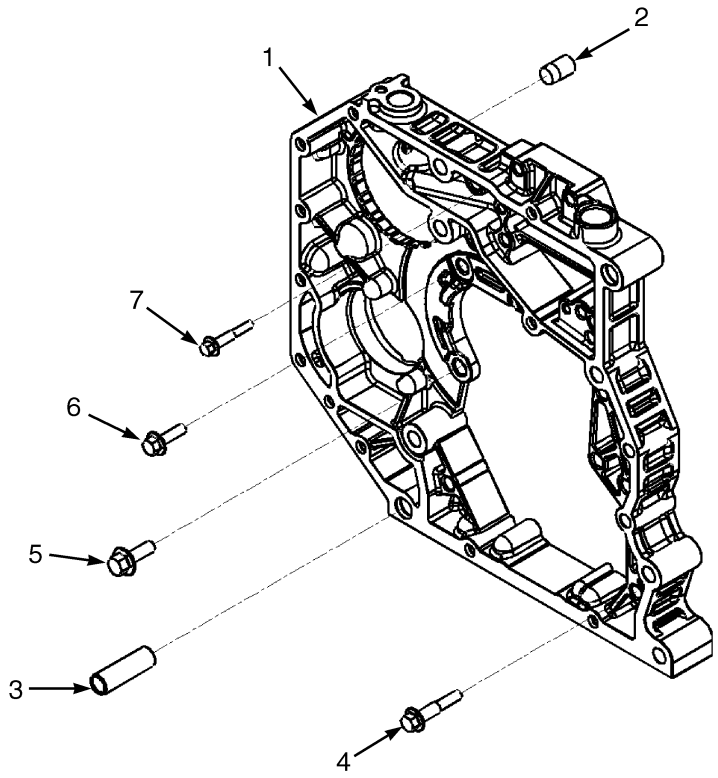
REAR GEAR HOUSING (FIGURE 2-36)
TIER III ENGINE



HP091327

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~4103820~~		
	~~4110429~~		
	4185014	Housing	1
2	1635395	Insert	2
3	1635270	Ring , Dowel	2
4	1635260	Capscrew	3
5	1511953	Capscrew	1
6	1511977	Capscrew	2
7	1512111	Capscrew	4
	a 1635384	Clip	1

FOOTNOTES:

a Not Illustrated

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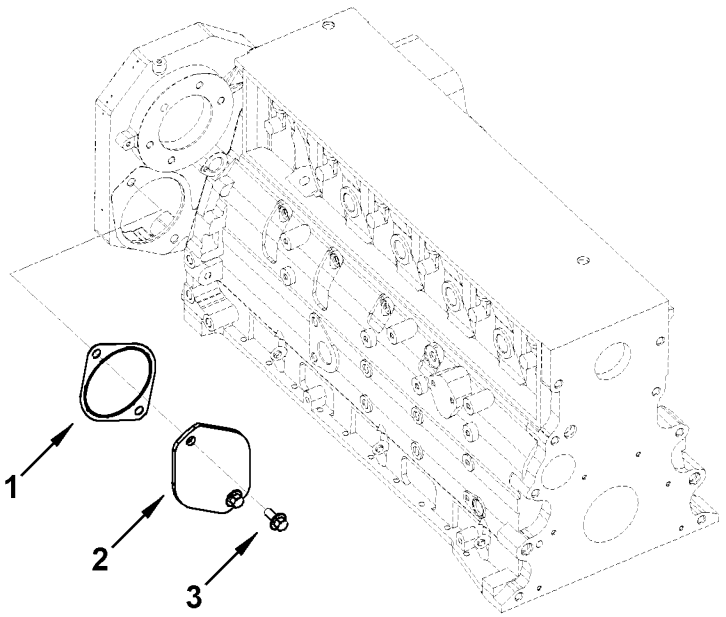
REAR GEAR TRAIN ACCESSORY MOUNTING COVER (FIGURE 2-37)
TIER III ENGINE



HP091117

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635367	Gasket	1
2	1512417	Cover Plate	1
3	1511953	Capscrew	2

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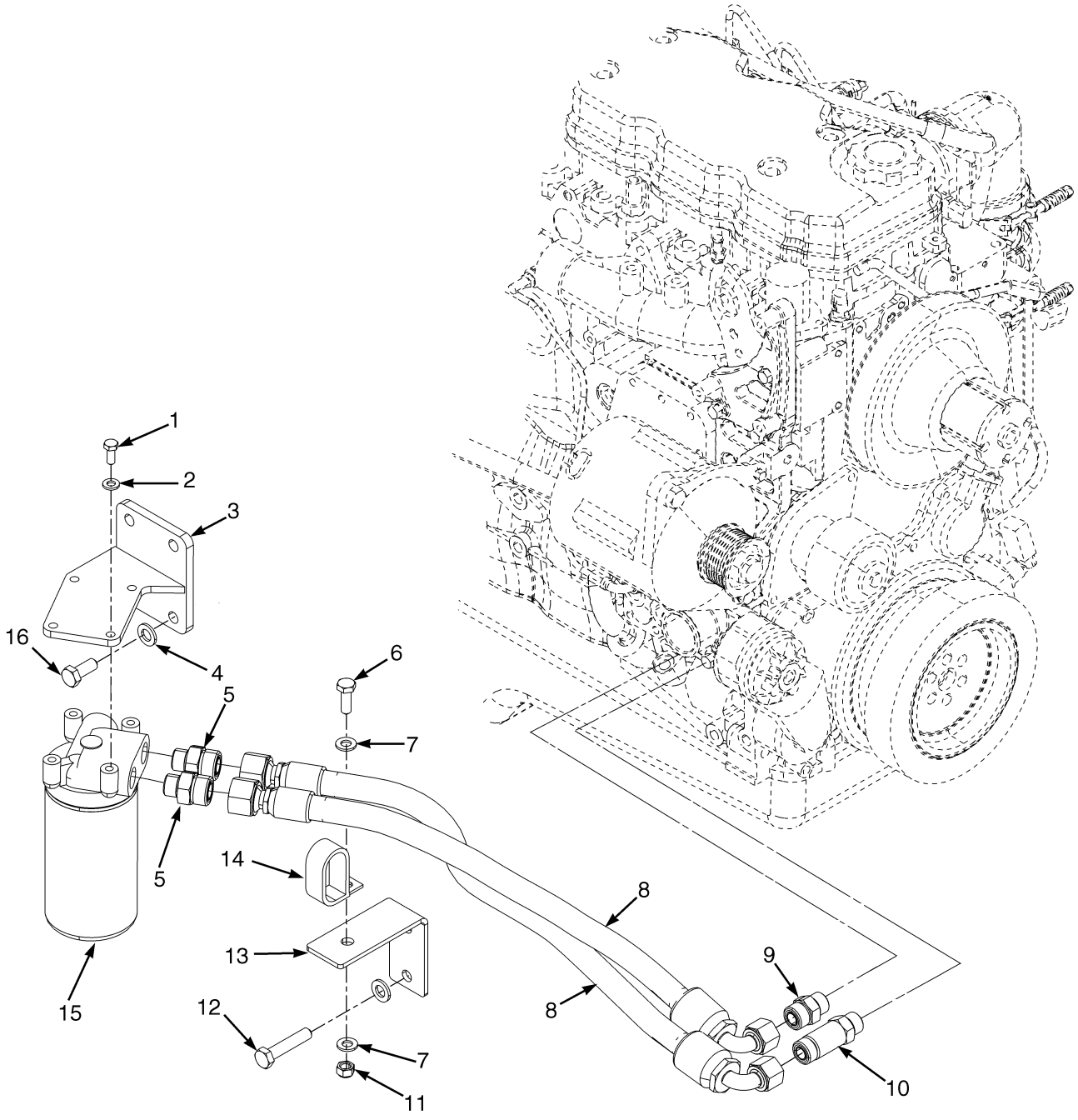
REMOTE OIL FILTER (FIGURE 2-38)
TIER III ENGINE



HP091368

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REMOTE OIL FILTER
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	136681	Capscrew	4
2	320157	Washer	4
3	1615711	Bracket Wldmt	1
4	320161	Washer	10
5	1486754	Fitting	2
6	136985	Capscrew	1
7	320159	Washer	2
8	1616293	Hose Assy	2
9	1486749	Fitting	1
10	1528596	Fitting	1
11	302401	Locknut	1
12	292531	Capscrew	2
13	1638200	Spacer	1
14	1396346	Clamp	1
15	1635389	Filter Head	1
15	1635301	Fitting	1
15	1524551	Oil Filter	1
16	292527	Capscrew	4

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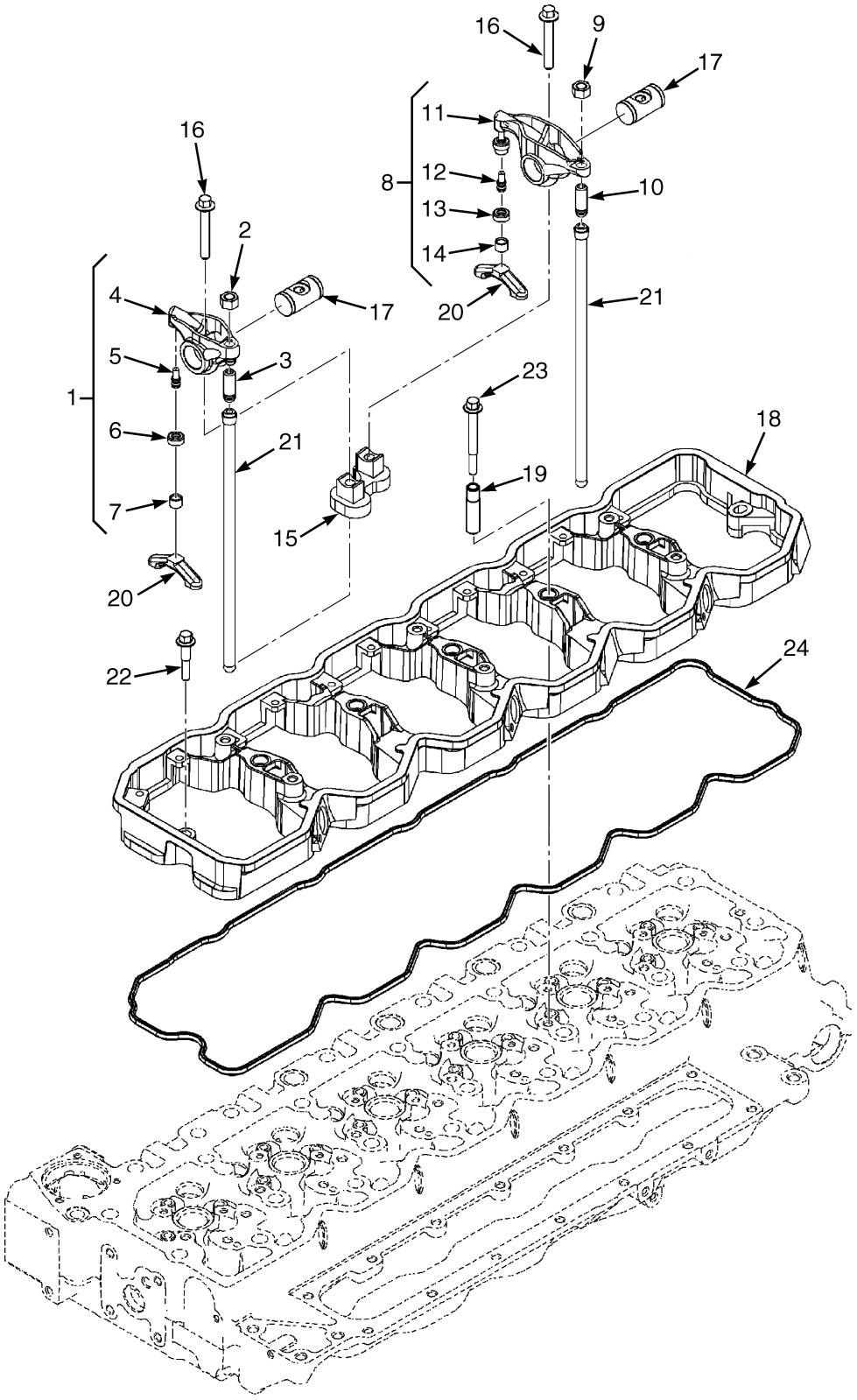
ROCKER LEVERS (FIGURE 2-39)
TIER III ENGINE



HP091355

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ROCKER LEVERS
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	. . . . .	Lever Assembly	1
1	1521939	Rocker Assembly (Exhaust)	1
1	. . . . .	Rocker Lever	1
2	1517246	Nut	1
3	1553956	Screw	1
4	. . . . .	Lever	1
5	. . . . .	Ball	1
6	. . . . .	Retainer	1
7	. . . . .	Socket	1
8	1521937	Rocker Assembly (Intake)	1
8	. . . . .	Rocker Lever	1
9	1517246	Nut	1
10	1553956	Screw	1
11	. . . . .	Lever	1
12	. . . . .	Ball	1
13	. . . . .	Retainer	1
14	. . . . .	Socket	1
15	1584933	Support Assembly	2
15	1553952	Capscrew	2
15	1635388	Rocker Shaft	2
16	1553952	Capscrew	2
17	1635388	Rocker Shaft	2
18	4010868	Housing	1
19	. . . . .	Sleeve	5
20	1521944	Valve (Crosshead)	12
21	1521943	Push Rod	12
22	1513725	Capscrew	2
23	1635254	Capscrew	5
24	1635378	Gasket	1

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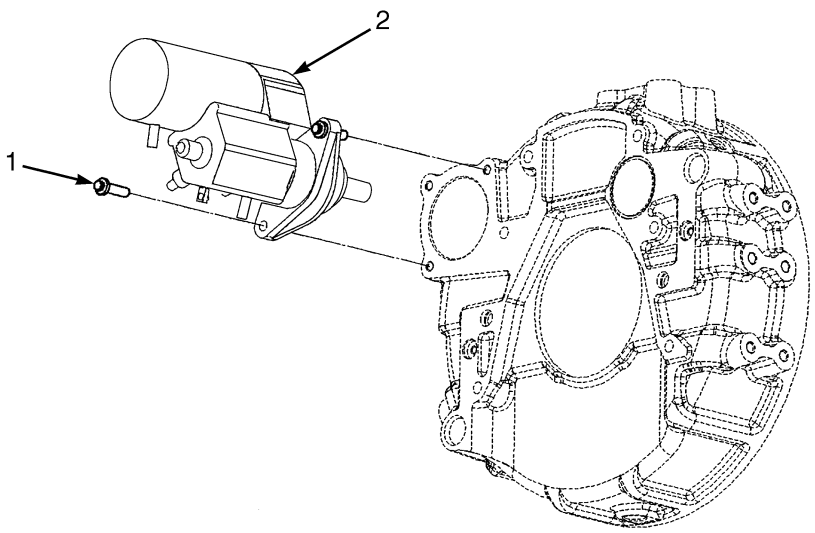
STARTER MOTOR AND MOUNTING (FIGURE 2-40)
TIER III ENGINE



HP091365

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1588828	Capscrew	2
2	1552880	Starter	1
2	1702183	Reman Starter Motor (Alternate Part)	1

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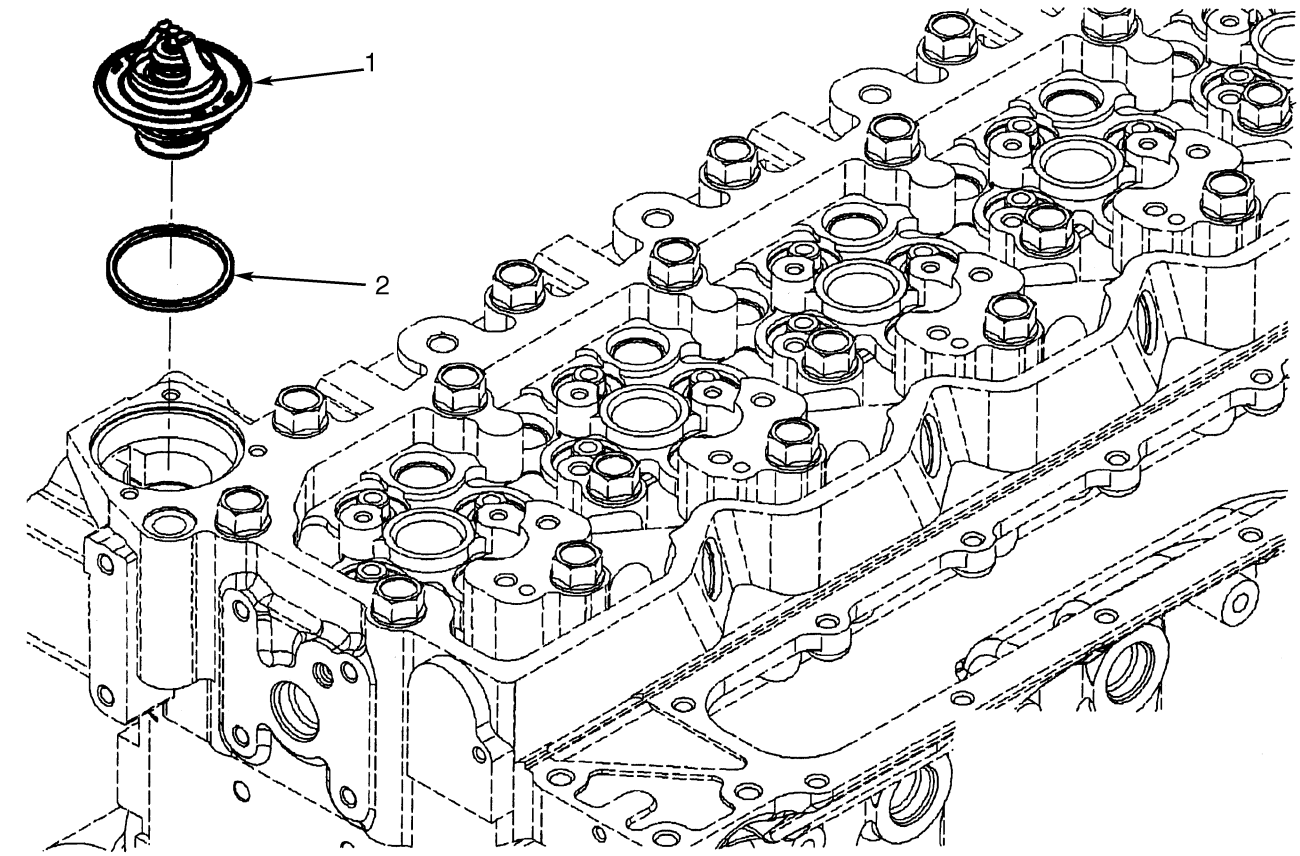
THERMOSTAT (FIGURE 2-41)
TIER III ENGINE

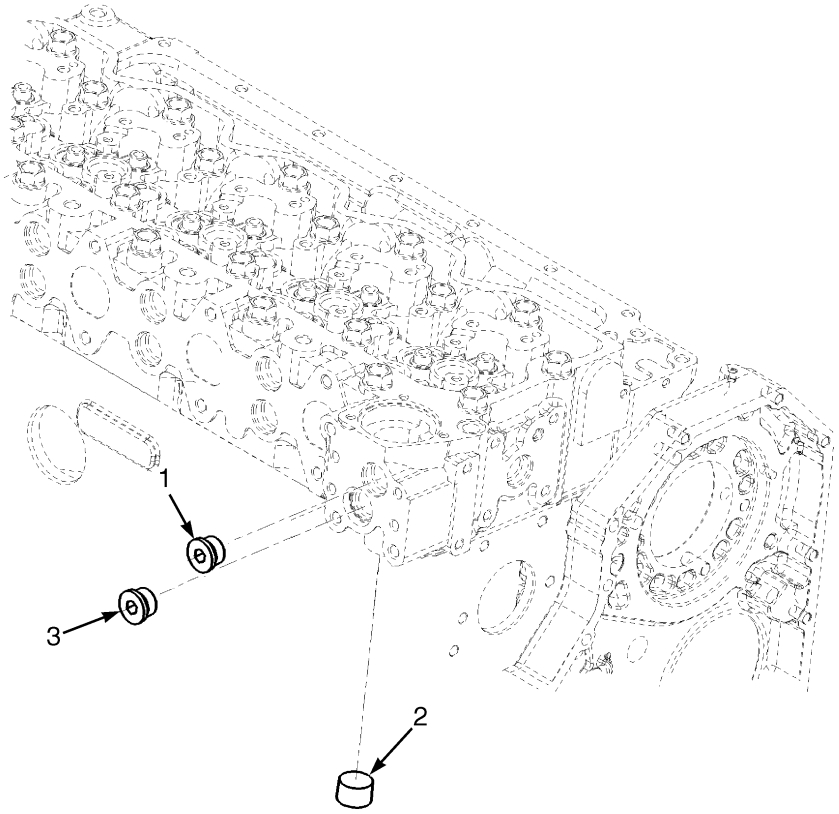


HP090893

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~4113728~~		
	1635397	Thermostat Assembly	1
2	1552716	Seal	1

TORQUE CONVERTER COOLER PLUGS (FIGURE 2-42)

TIER III ENGINE



HP091359

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1644095	Fitting	1
2	1512292	Plug	1
3	1589584	Plug	1

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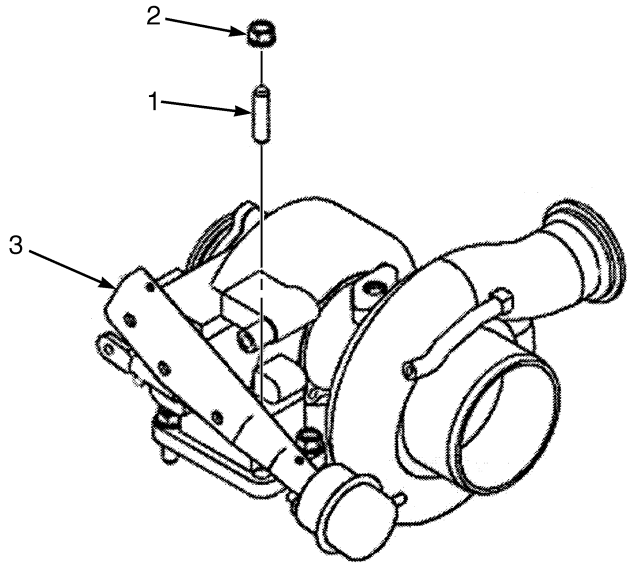
TURBOCHARGER (FIGURE 2-43)
TIER III ENGINE



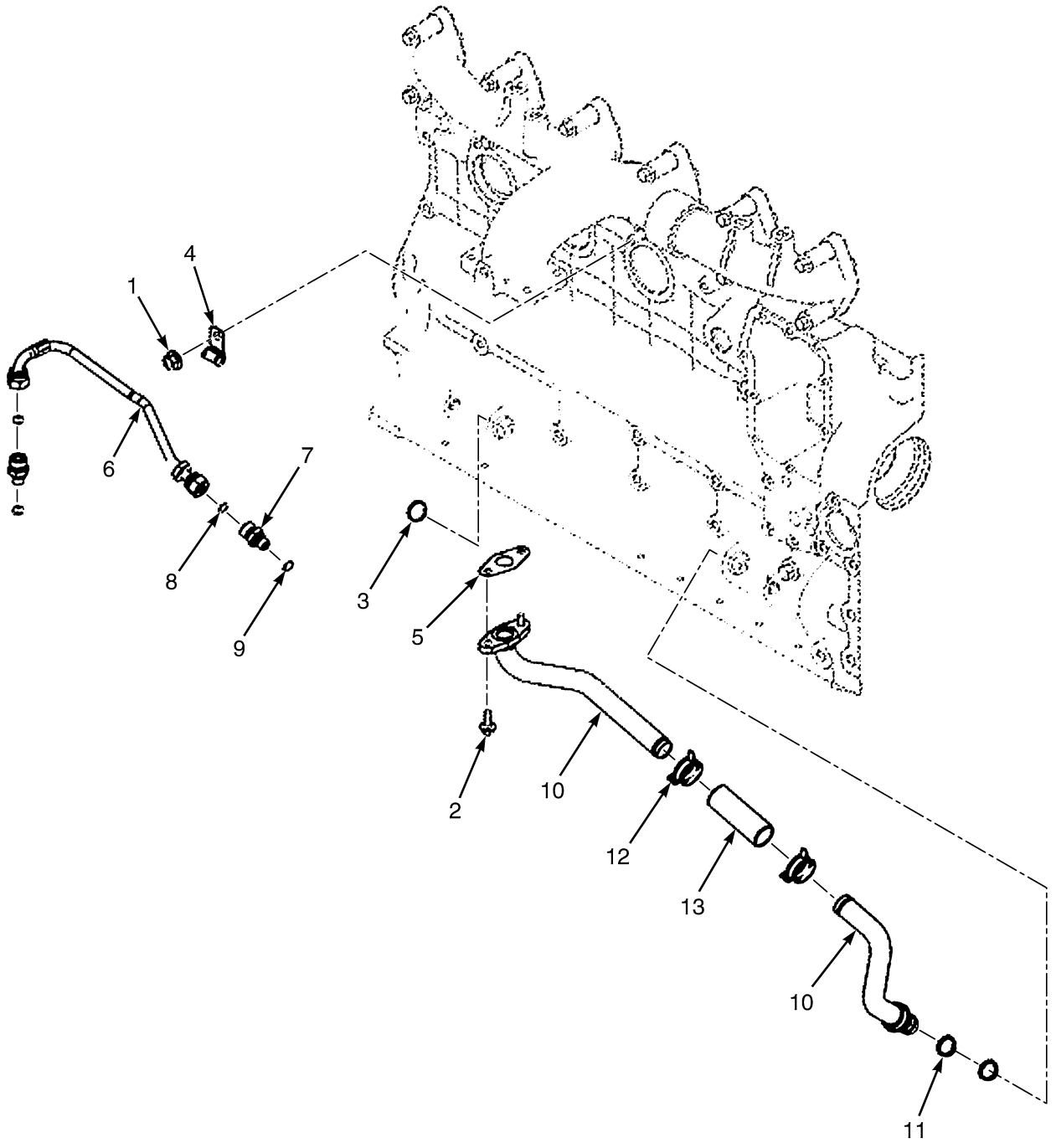
ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1513337	Stud	4
2	1513338	Nut	4
3	1661394	Kit-Turbocharger	1
3	1517069	O-Ring	1
3	1513430	O-Ring	1
3	1654762	Gasket	1
3	. . . . .	Turbocharger	1
3	~~4036234~~		
	1661396	Gasket , Oil Drain	1
	a 4008980	Kit-Repair Turbocharger	1

FOOTNOTES:

a Not Illustrated

TURBOCHARGER PLUMBING (FIGURE 2-44)

TIER III ENGINE



HP091251

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TURBOCHARGER PLUMBING
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635230	Nut	1
2	1512004	Capscrew	2
3	1514339	Plug	1
4	1588106	Clamp	1
5	1635354	Gasket	1
6	1661071	Hose	1
7	~~1521960~~		
	1702184	Connector Assembly	2
7	. . . . .	Connector	1
8	1513430	O-Ring	1
9	1517069	O-Ring	1
10	1707005	Tube Assy	1
10	. . . . .	Connection	2
11	1514571	Seal	2
12	1513701	Hose Clamp	2
13	1517269	Hose	1

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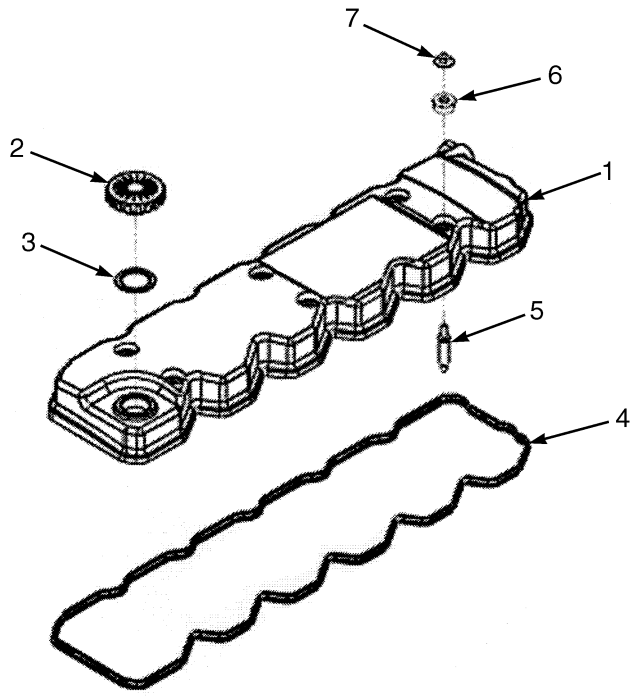
VALVE COVER (FIGURE 2-45)
TIER III ENGINE



HP091453

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1636527~~		
	1661437	Cover	1
2	4055702	Cap (Filler)	1
3	. . . . .	Gasket	1
4	~~1635377~~		
	4110641	Gasket	1
5	1635368	Stud	6
6	1635379	Isolator	6
7	1635356	Nut	6

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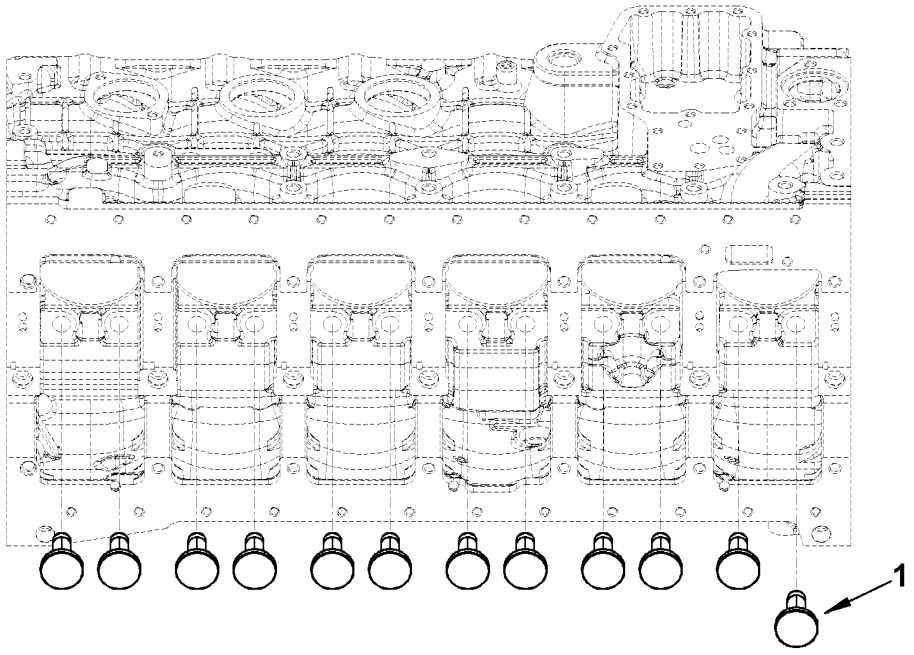
VALVE TAPPETS (FIGURE 2-46)
TIER III ENGINE



HP091133

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635265	Tappet	12

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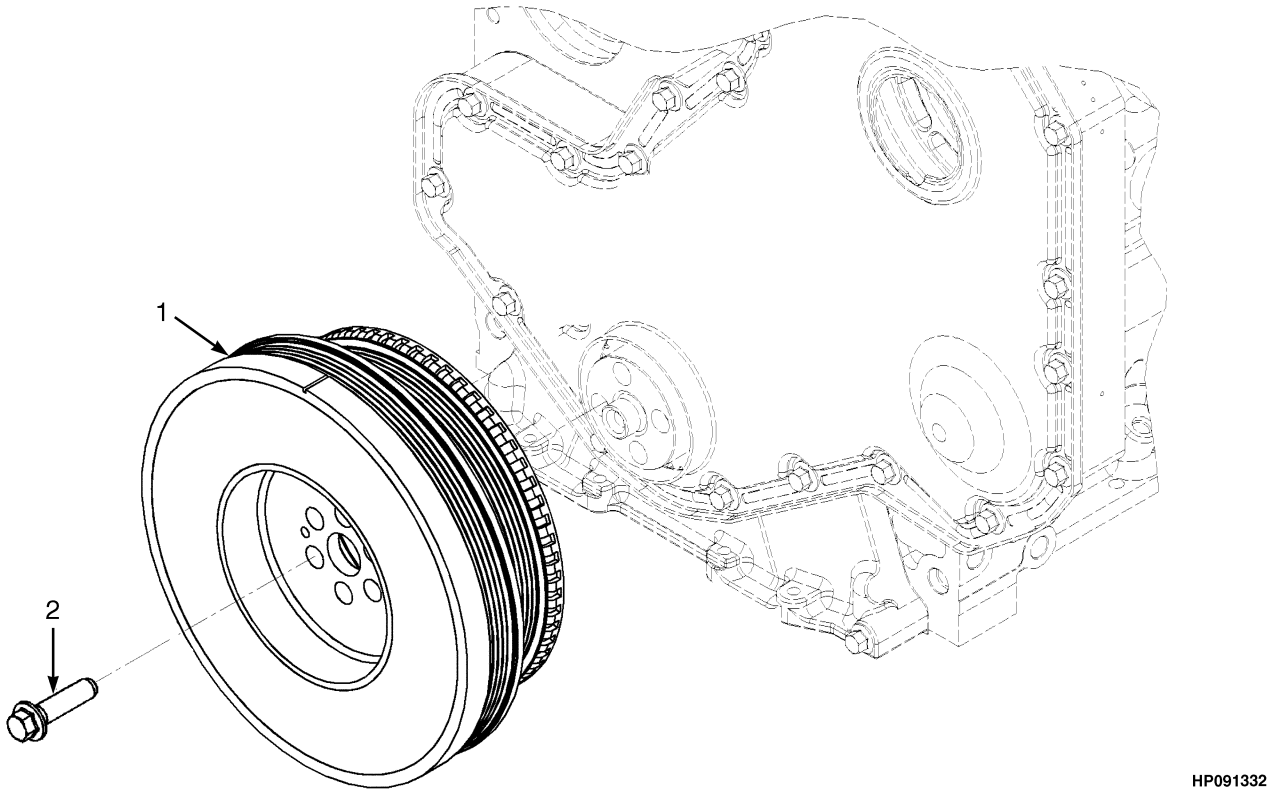
VIBRATION DAMPER (FIGURE 2-47)
TIER III ENGINE



HP091332

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1635328~~		
	4110434	Vibration Damper	1
2	1637802	Screw	6

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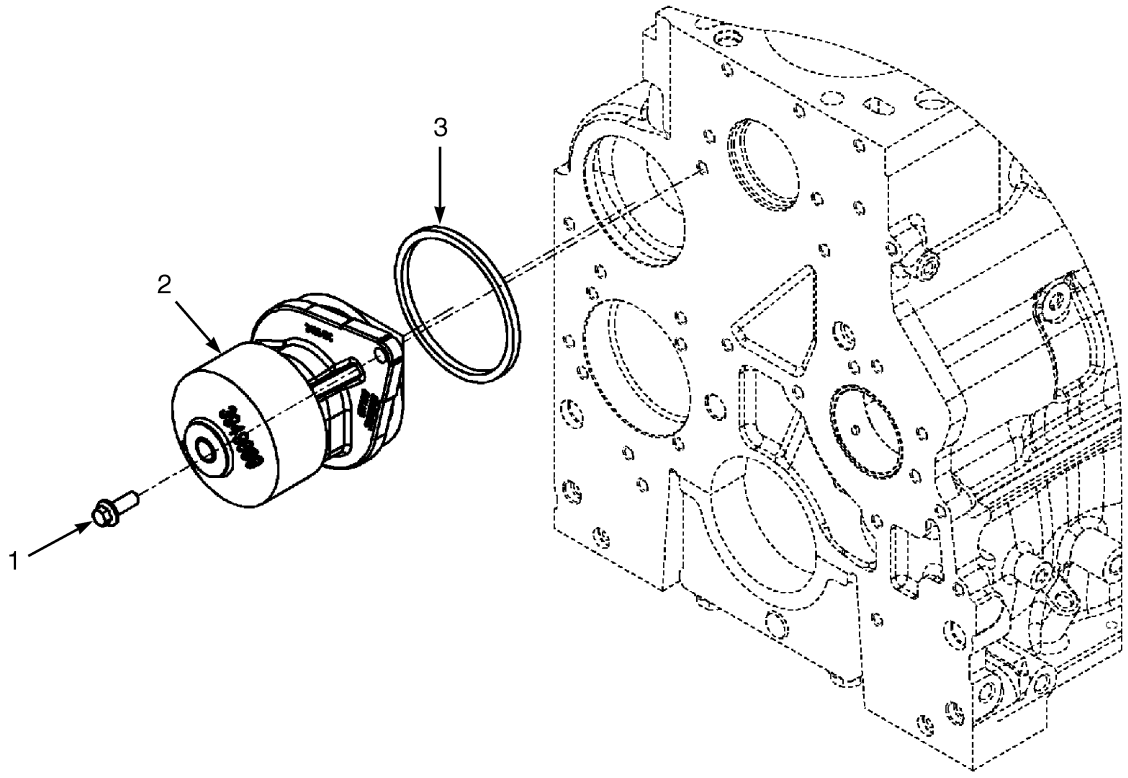
WATER PUMP (FIGURE 2-48)
TIER III ENGINE



HP091363

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1691854~~		
	1597807	Capscrew (Flange)	2
2	~~1703491~~		
	1635242	Water Pump	1
3	1512322	Sealing Ring	1

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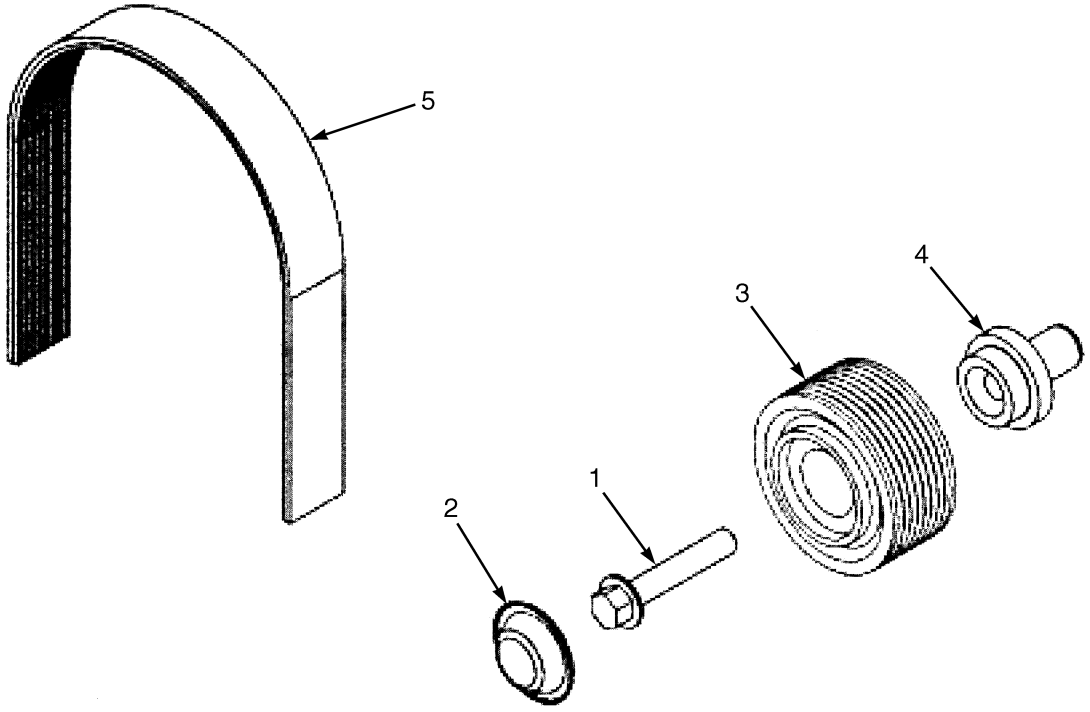
WATER PUMP DRIVE (FIGURE 2-49)

TIER III ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1517257	Screw	1
2	1635261	Dust Shield	1
3	1635337	Idler Pulley	1
4	1635262	Drive Shaft	1
5	4009192	Belt (Ribbed)	1

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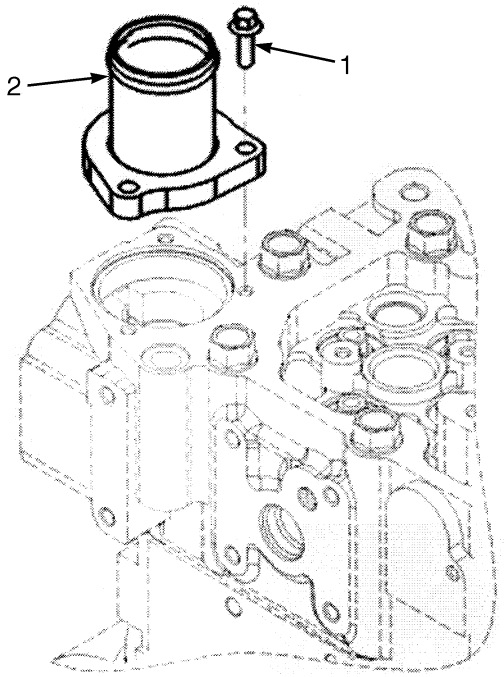
WATER OUTLET CONNECTION (FIGURE 2-50)
TIER III ENGINE



HP091454

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1513792	Capscrew	3
2	1521973	Water Outlet	1

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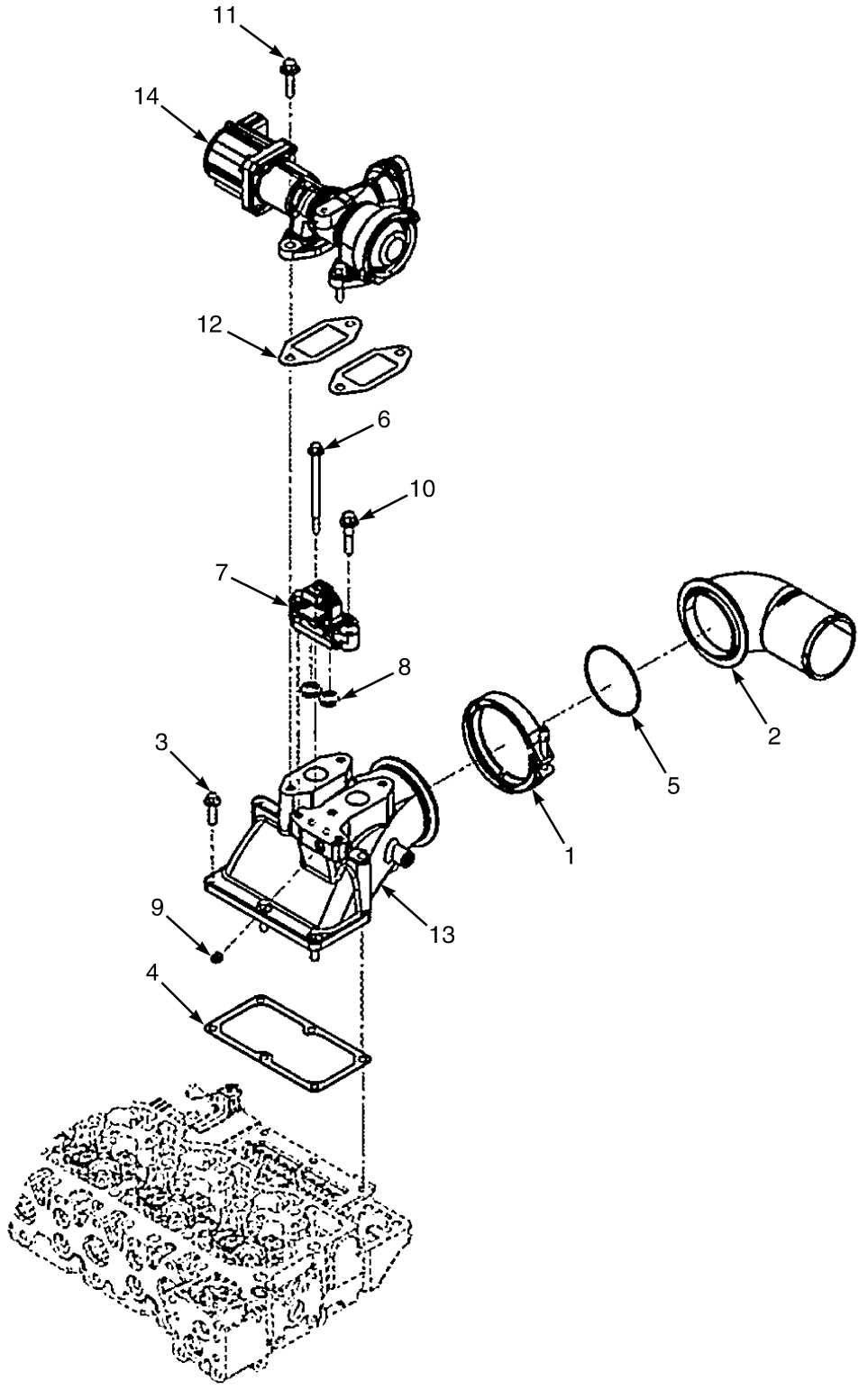
AIR INTAKE CONNECTION (FIGURE 2-51)

TIER IV INTERIM ENGINE



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AIR INTAKE CONNECTION
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1568692	Clamp	1
2	4033307	Pipe	1
3	4033209	Capscrew	3
3	4054899	Capscrew (2014 Alternate Part)	1
4	4033226	Gasket	1
5	1612790	O-Ring	1
6	4033206	Capscrew	2
7	. . . . .	Air Intake Connector	1
7	4033206	Capscrew	1
7	~~4033193~~ ~~4054901~~ ~~4104306~~		
	4185041	Sensor (Differential Pressure)	1
8	4033230	Seal (Rectangular Ring)	2
9	1513191	Fitting	1
10	1512033	Capscrew	2
11	1512423	Capscrew	4
12	4033228	Gasket	2
13	. . . . .	Connector	1
14	4036562	Kit-Valve , Exhaust Gas Recirculation	1
14	4033228	Gasket	1
14	. . . . .	Gas Exhaust Valve	1
14	4033237	Gasket	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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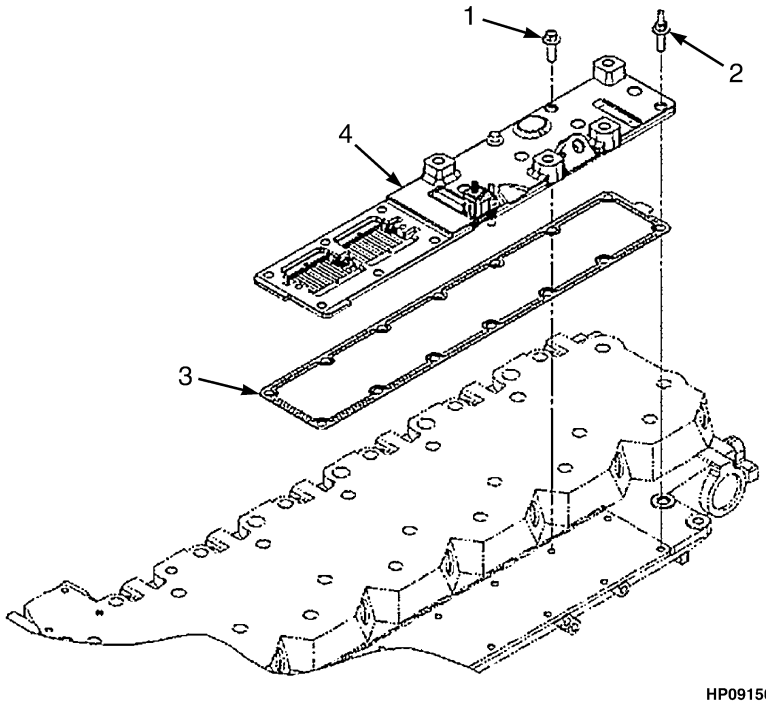
AIR INTAKE MANIFOLD (FIGURE 2-52)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512295	Capscrew	3
2	4033208	Capscrew	1
3	1662310	Gasket	1
4	4033333	Cover	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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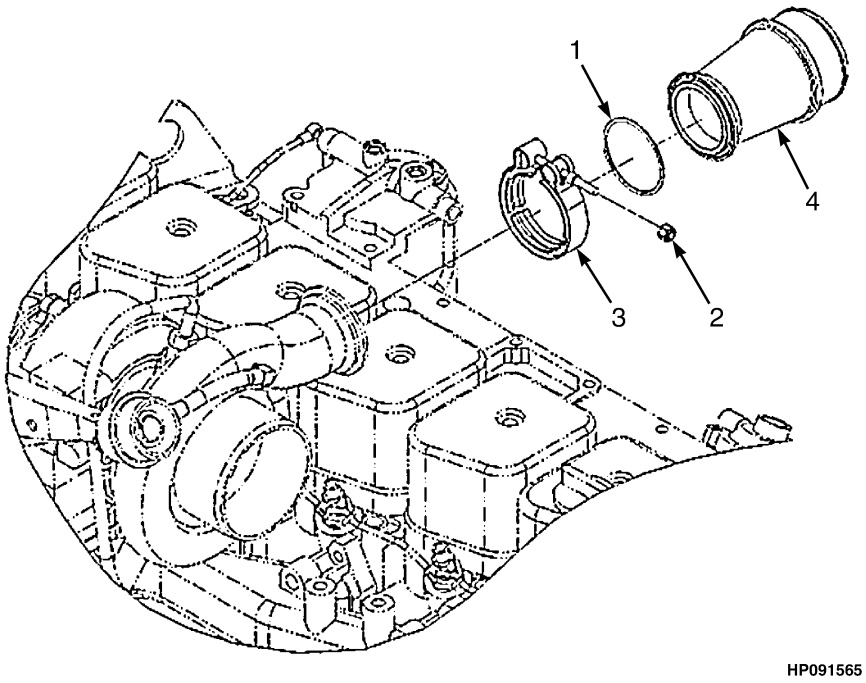
AIR TRANSFER CONNECTION (FIGURE 2-53)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1515787	O-Ring	1
2	1517094	Locknut	1
3	1597806	Clamp	1
4	4033216	Connector	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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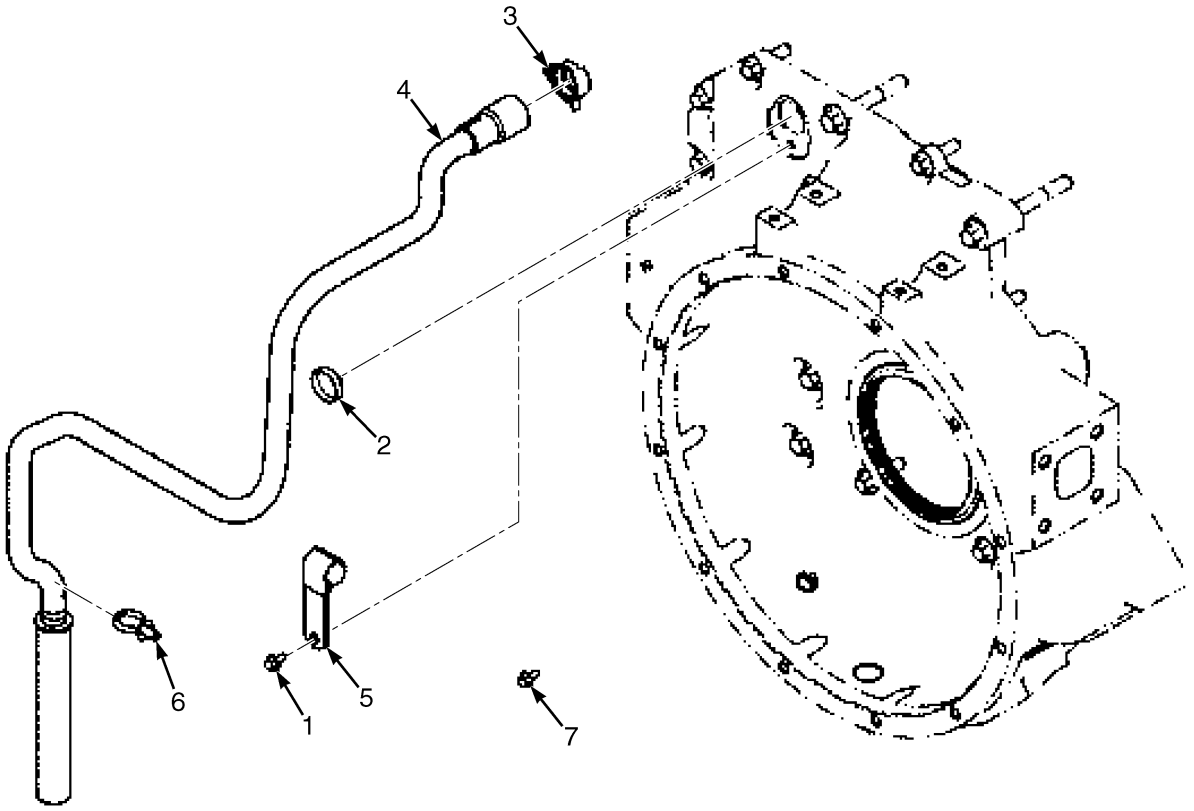
BREATHER PLUMBING (FIGURE 2-54)
TIER IV INTERIM ENGINE



HP091547

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512097	Capscrew	1
2	. . . . .	Expansion Plug	1
3	4033207	Clamp	1
4	~~4033373~~		
	4104295	Tube Assy	1
5	. . . . .	Clip	1
6	. . . . .	Clip (Wire Retaining)	1
7	1513749	Capscrew	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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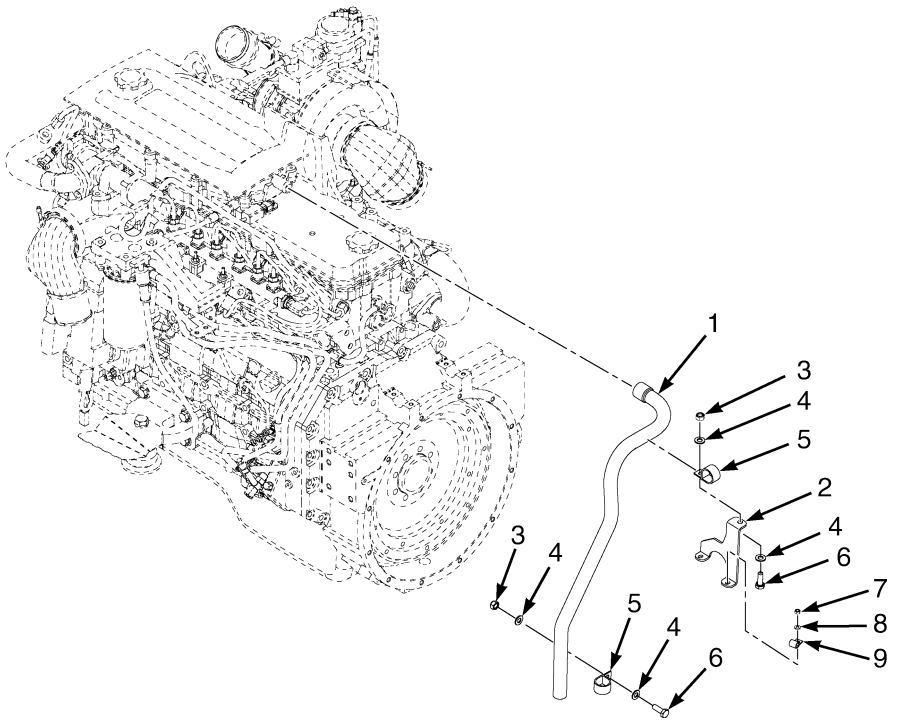
BREATHER PLUMBING (FIGURE 2-55)
OPTIONAL CONFIGURATION — TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4051626	Hose	1
2	4051627	Plate	1
3	302401	Locknut	2
4	296420	Washer	4
5	166112	Clamp	2
6	136985	Capscrew	2
7	302399	Nut	2
8	296417	Washer	2
9	132131	Clamp	1

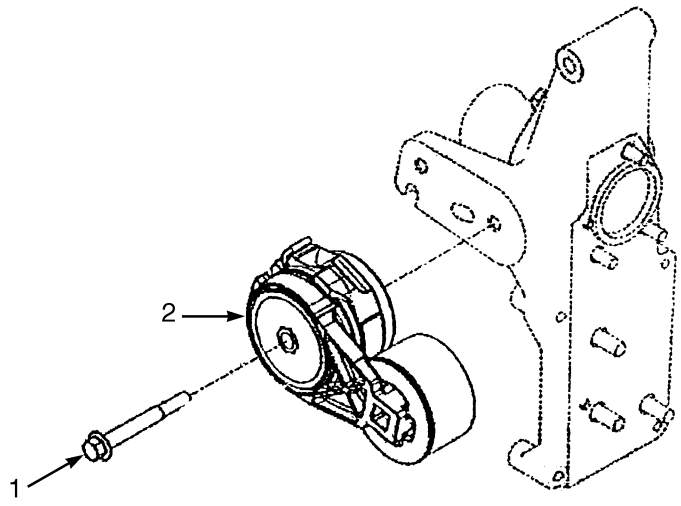
FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

BELT TENSIONER (FIGURE 2-56)
TIER IV INTERIM ENGINE



HP091364

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1521938	Capscrew	1
2	4043614	Tensioner , Belt	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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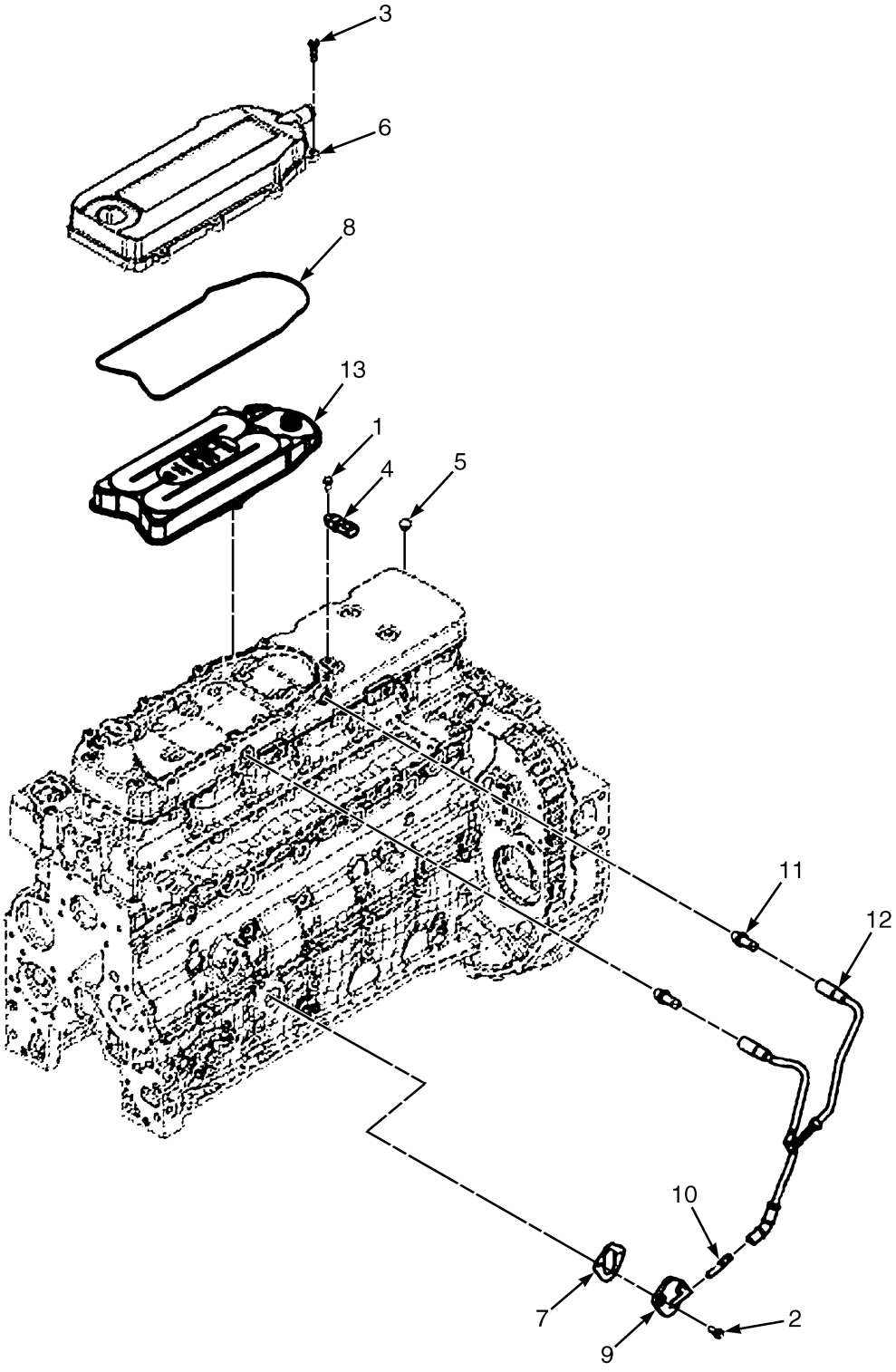
CRANKCASE BREATHER (FIGURE 2-57)
TIER IV INTERIM ENGINE



HP091548

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CRANKCASE BREATHER
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1638701	Capscrew	1
2	1512004	Capscrew	2
3	. . . . .	Capscrew	8
4	4033292	Sensor	1
4	4056509	Seal	1
5	1512585	Plug	1
6	4033379	Cover	1
6	4104299	Cover (2014 Alternate Part)	1
7	~~1517111~~		
	1513743	Gasket (Cover Plate)	1
8	4033229	Gasket	1
9	4033236	Cover	1
10	4033238	Coupling	1
11	4033252	Coupling	2
12	4033330	Tube	1
13	4033260	Element	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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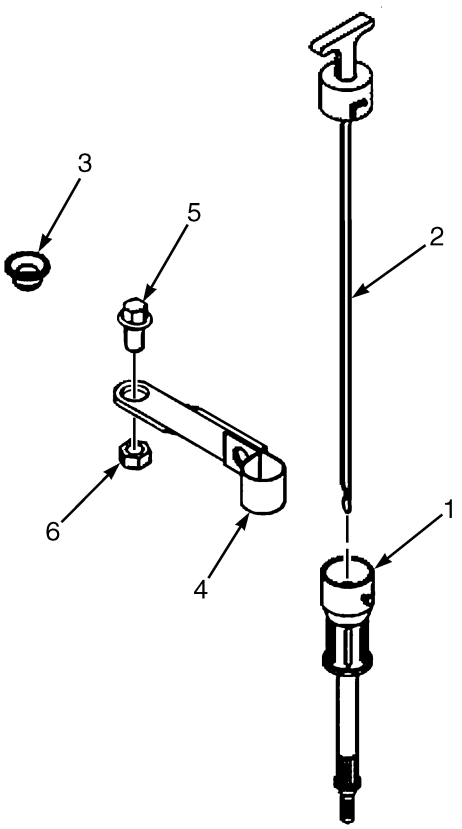
DIPSTICK AND TUBE (FIGURE 2-58)
TIER IV INTERIM ENGINE



HP091553

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033221	Dipstick Tube	1
2	4033285	Dipstick	1
3	1512130	Plug	4
4	1638699	Brace	1
5	1513749	Capscrew	1
6	4033204	Nut	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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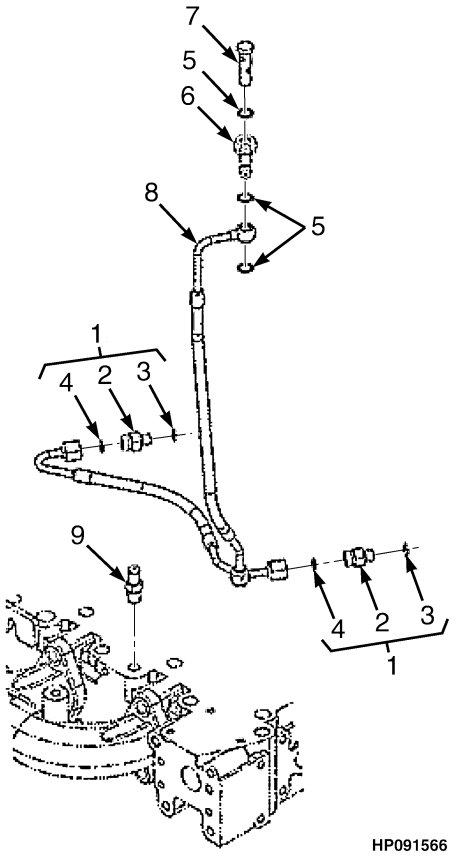
ENGINE COOLANT VENT (FIGURE 2-59)

TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4053488	Connector Assembly	2
2	. . . . .	Connector	1
3	1517011	O-Ring	1
4	. . . . .	O-Ring	1
5	. . . . .	Sealing Washer	3
6	4053490	Connector	1
7	4053492	Screw	1
8	4054694	Tube	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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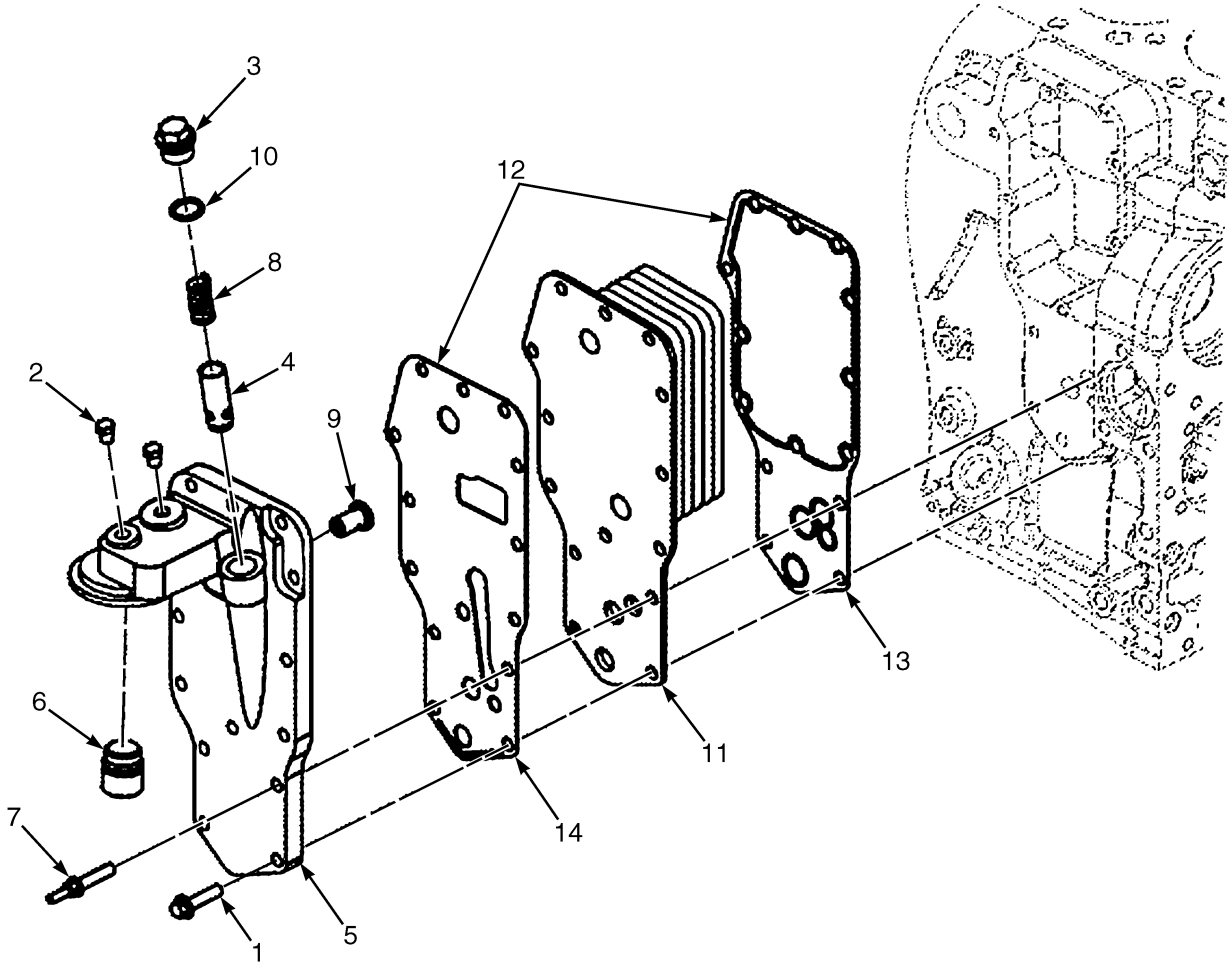
ENGINE OIL COOLER (FIGURE 2-60)

TIER IV INTERIM ENGINE



HP091551

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512111	Capscrew	12
2	1512448	Fitting	2
3	1637850	Plug	1
4	1637851	Plunger	1
5	~~4109436~~		
	~~4129255~~		
	1637852	Filter Head Assembly	1
6	. . . . .	Filter Head Adapter	1
7	~~1635422~~		
	4086128	Capscrew	3
8	1512112	Spring , Pressure Regulator	1
9	1513772	Relief Valve (Pressure)	1
10	1512118	O-Ring	1
11	1635314	Oil Cooler Core	1

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ITEM	PART NO.	DESCRIPTION	QTY
12	1635458	Kit-Gasket	1
13	1635221	Gasket , Oil Cooler Core	1
14	1635306	Gasket , Filter Head	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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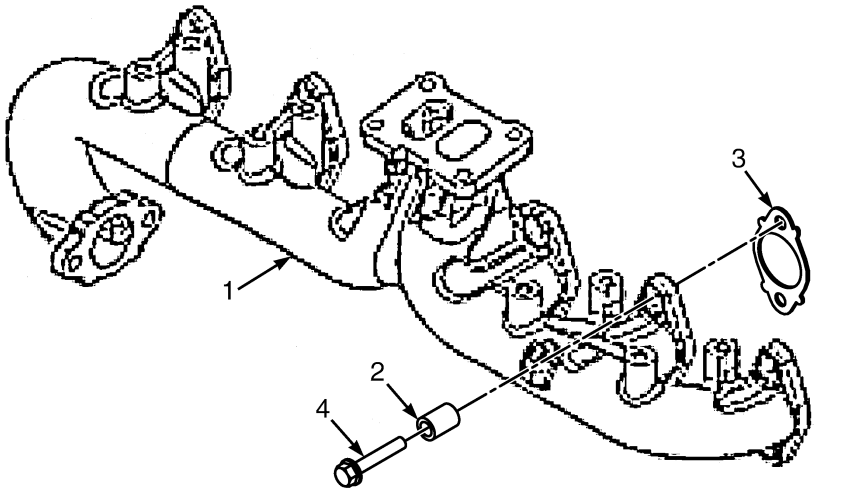
EXHAUST MANIFOLD AND MOUNTING (FIGURE 2-61)

TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033374	Exhaust Manifold	1
2	1517256	Spacer	12
3	~~1553965~~		
	~~4033384~~		
	4185124	Gasket	6
4	1517257	Screw	12

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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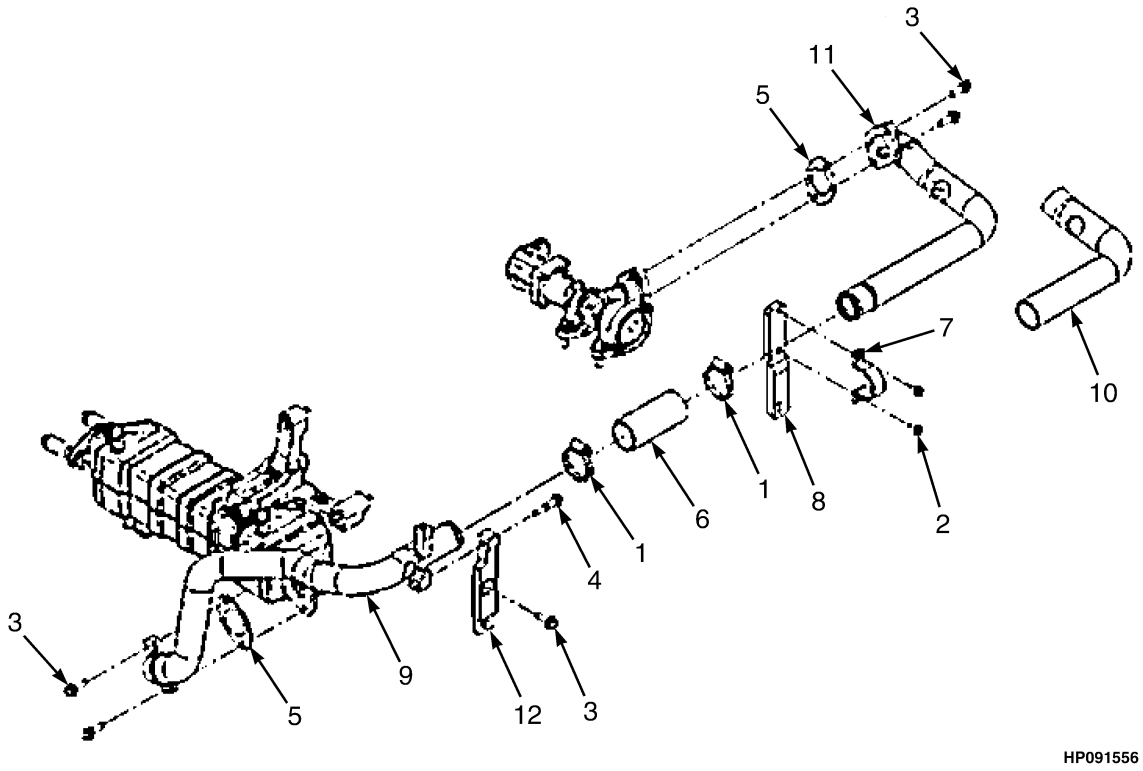
EXHAUST MANIFOLD (FIGURE 2-62)
RECIRCULATION AIR — TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033199	Clamp	2
2	1515909	Capscrew	2
3	1512005	Capscrew	5
4	1565007	Capscrew	1
5	4033237	Gasket	2
6	4033293	Hose	1
7	4033298	Clamp	1
8	4033382	Brace	1
9	4033346	Tube (Air Transfer)	1
10	. . . . .	Tube (Insulation)	1
11	. . . . .	Tube (Air Transfer)	1
12	4033342	Tube (Brace)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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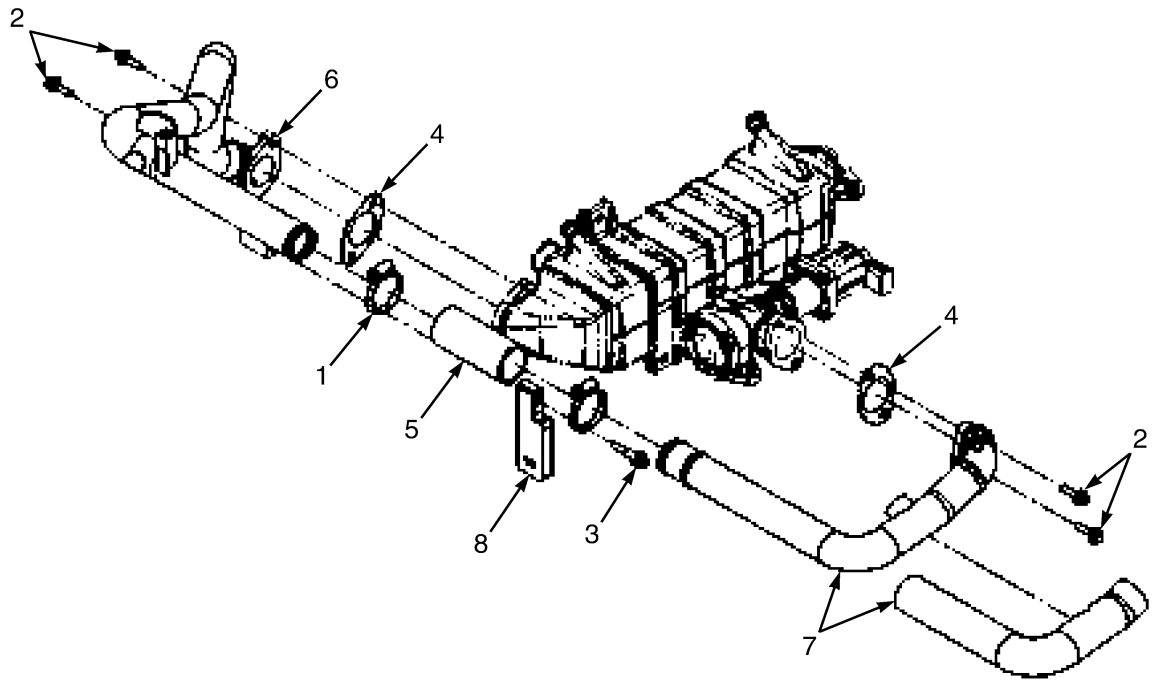
EXHAUST RECIRCULATION AIR PLUMBING (FIGURE 2-63)

TIER IV INTERIM ENGINE 4098706 (1/2014 →)



HP091751

ITEM	PART NO.	DESCRIPTION	QTY
	4098706	Engine Assy (2014)	1
1	4033199	Clamp	2
2	1512005	Capscrew	4
3	. . . . .	Hex Flange Capscrew	1
4	4033237	Gasket	2
5	4110411	Hose	1
6	. . . . .	Tube (Air Transfer)	1
7	. . . . .	Tube (Air Transfer)	1
8	. . . . .	Brace	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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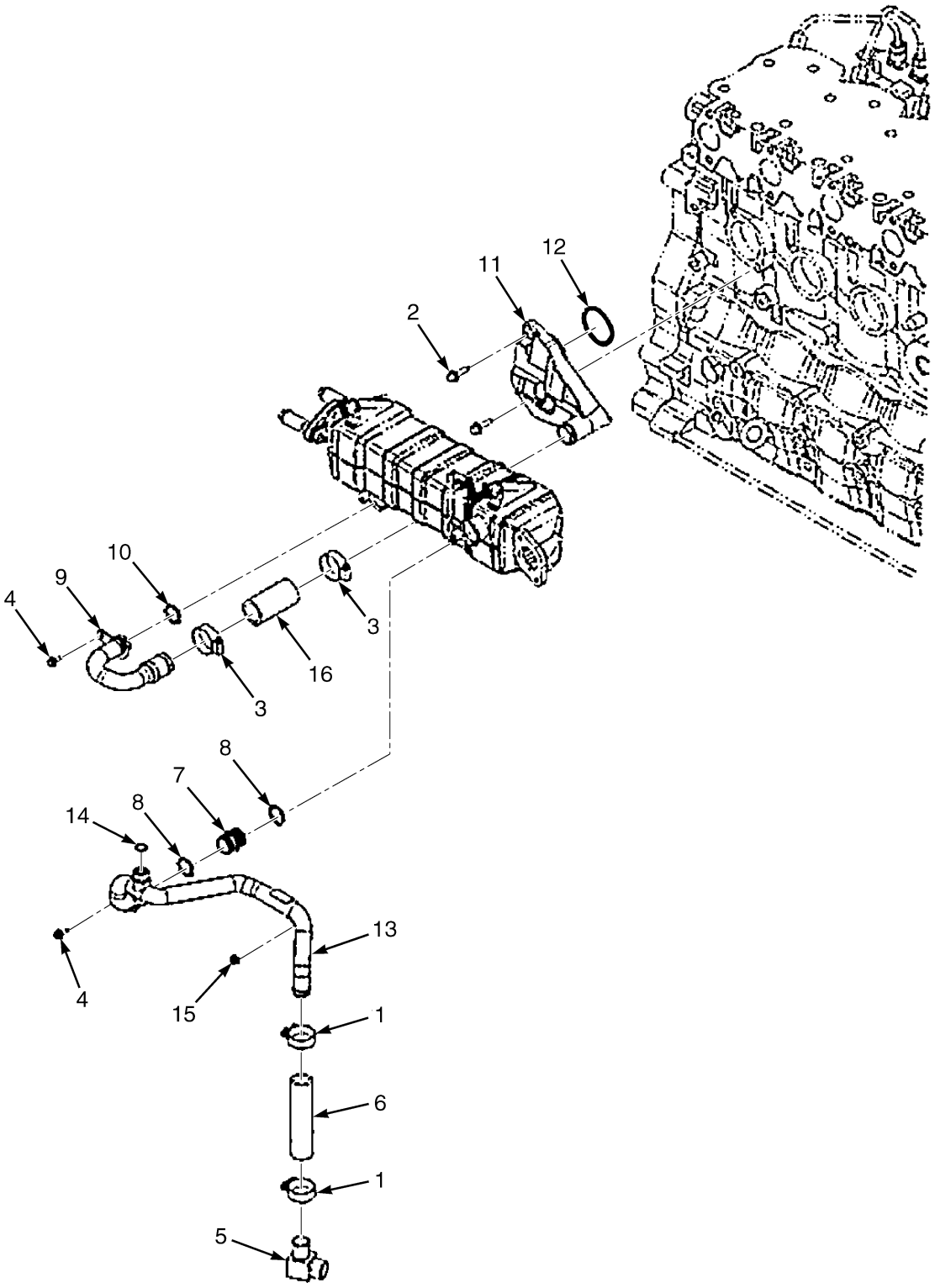
EXHAUST MANIFOLD (FIGURE 2-64)
RECIRCULATION WATER — TIER IV INTERIM ENGINE



HP091555

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EXHAUST MANIFOLD

RECIRCULATION WATER – TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033196	Hose Clamp	2
1	4033207	Clamp (Alternate part)	1
2	~~1691854~~		
	1597807	Capscrew (Flange)	2
3	1513451	Hose Clamp	2
3	4104333	Clamp (Alternate part)	1
4	1512097	Capscrew	2
5	4033334	Elbow	1
6	4033366	Hose	1
6	4109325	Hose (Alternate part)	1
7	4033369	Tube Assy (Water Transfer)	1
8	4033197	O-Ring	2
9	~~4033335~~		
	4109326	Tube (Water Inlet)	1
10	4033197	O-Ring	1
11	4033350	Connector	1
12	4033205	O-Ring	1
13	~~4109327~~		
	4144688	Tube	1
14	1606579	O-Ring	1
15	1513793	Nut	1
16	4033367	Hose	1
16	4033366	Hose (Alternate part)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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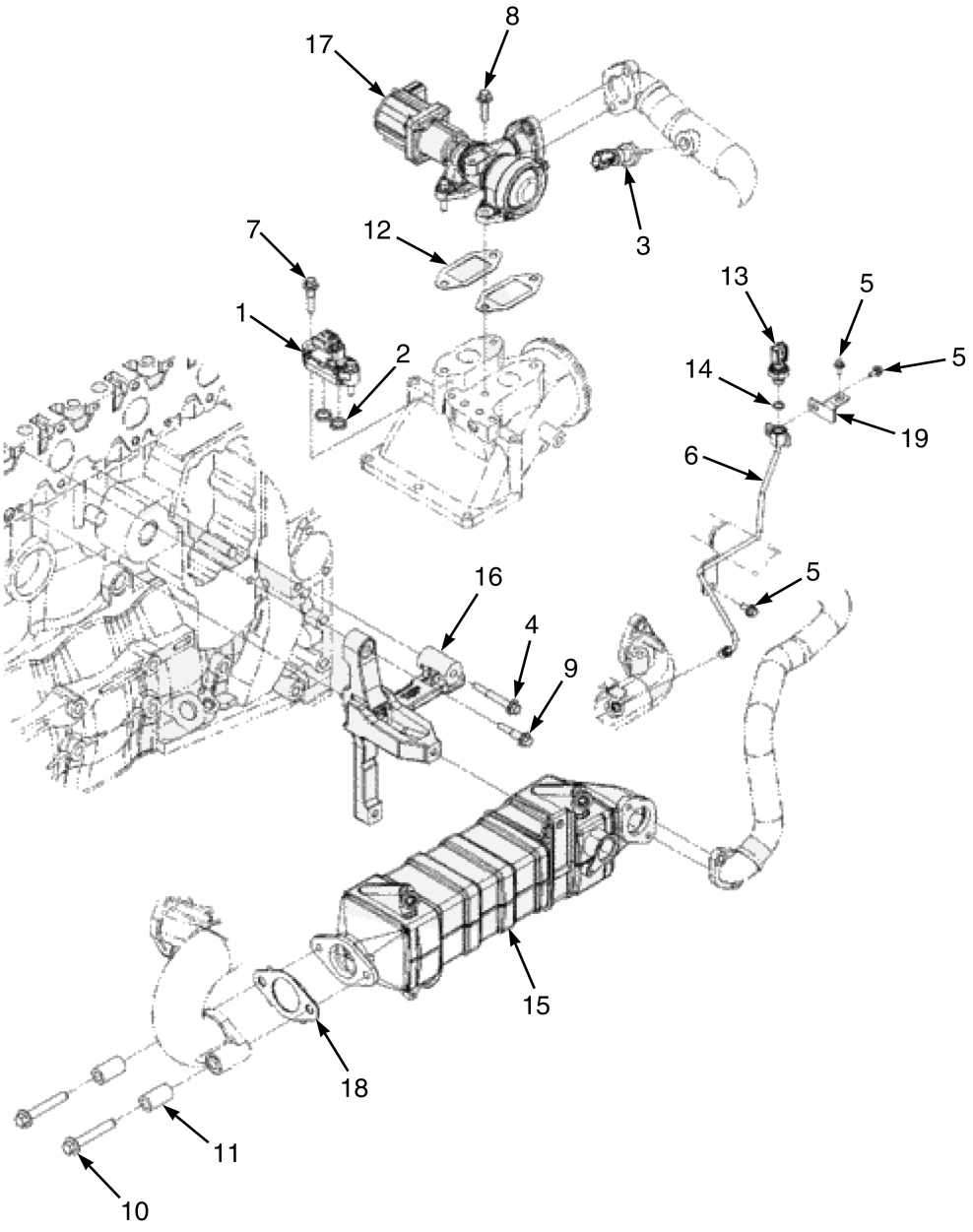
EXHAUST RECIRCULATION (FIGURE 2-65)
TIER IV INTERIM ENGINE



HP091679

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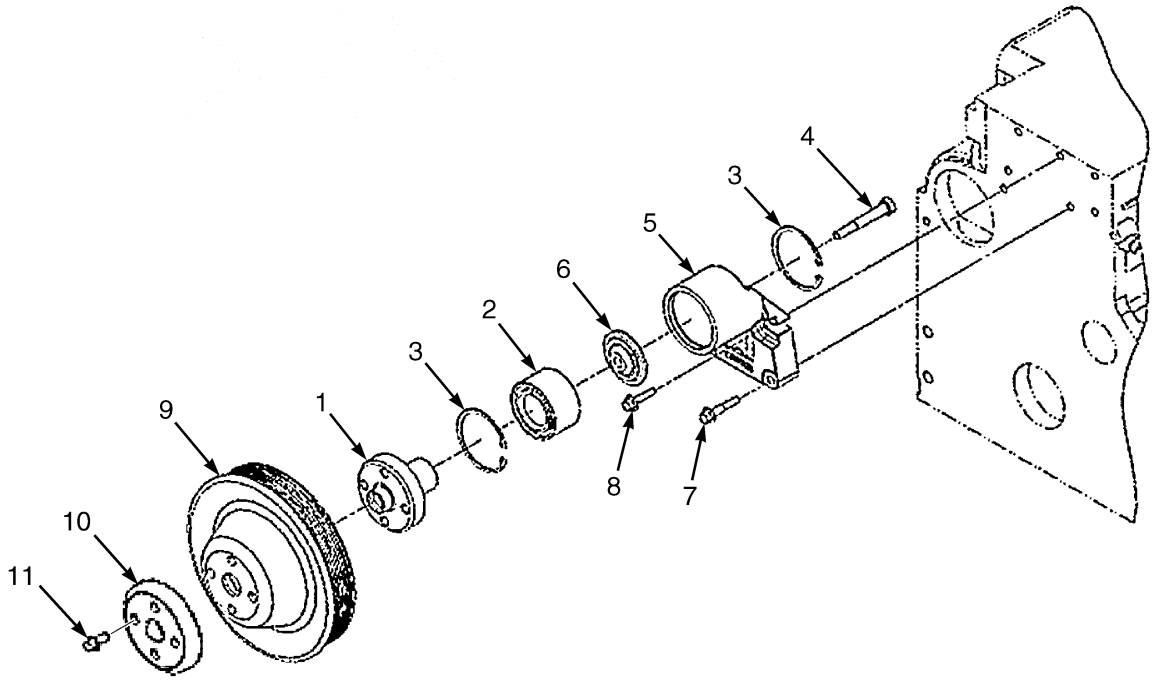
EXHAUST RECIRCULATION
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	b 4009427	Engine Assy	1
	c 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	~~4033193~~		
	~~4054901~~		
	~~4104306~~		
	4185041	Sensor (Differential Pressure)	1
2	4033230	Seal (Rectangular Ring)	2
3	4033194	Sensor (Temperature)	1
4	4033198	Capscrew	2
5	1512004	Capscrew	3
6	~~4033327~~		
	4118513	Tube , Air Transfer	1
7	4033206	Capscrew	2
8	1512423	Capscrew	4
9	1512029	Screw	1
10	1517257	Screw	2
11	1517256	Spacer	2
12	4033228	Gasket	2
13	4033231	Sensor (Exhaust Gas Pressure)	1
14	. . . . .	O-Ring	1
15	. . . . .	Cooler, Exhaust Gas Recirculation	1
16	4033377	Support , Exhaust Gas Recirculation Module	1
17	4036562	Kit-Valve , Exhaust Gas Recirculation	1
18	~~1553965~~		
	~~4033384~~		
	4185124	Gasket	1
19	. . . . .	Brace	1
	a ~~4040399~~		
	4135334	Kit -Exhaust Gas Recirculation Cooler	1

FOOTNOTES:

a Not Illustrated
b → S/N B236E01709M
c S/N B236E01710M →

FAN DRIVE (FIGURE 2-66)
TIER IV INTERIM ENGINE



BP090699

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
	~~1512424~~		
	4045106	Support Assembly, Fan Mount	1
	~~1512424~~		
	4045106	Support Assembly, Fan Mount (Alternate Part)	1
1	~~1512024~~		
	4045108	Hub	1
2	1512015	Ball Bearing (With Support Assy 1512424)	1
2	. . . . .	Bearing (With Support Assy 4045106)	1
3	1512026	Retaining Ring	2
4	1512027	Capscrew	1
5	. . . . .	Support	1
6	1512025	Hub Retainer	1
7	1512029	Screw	2
8	1635220	Capscrew	2
9	1513727	Fan Pulley	1
9	4057031	Fan Pulley (With Support Assy 4045106)	1
10	4012408	Plate	1
11	1511977	Capscrew	4

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

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NOTE: Refer to plate on engine to determine engine assembly part number.

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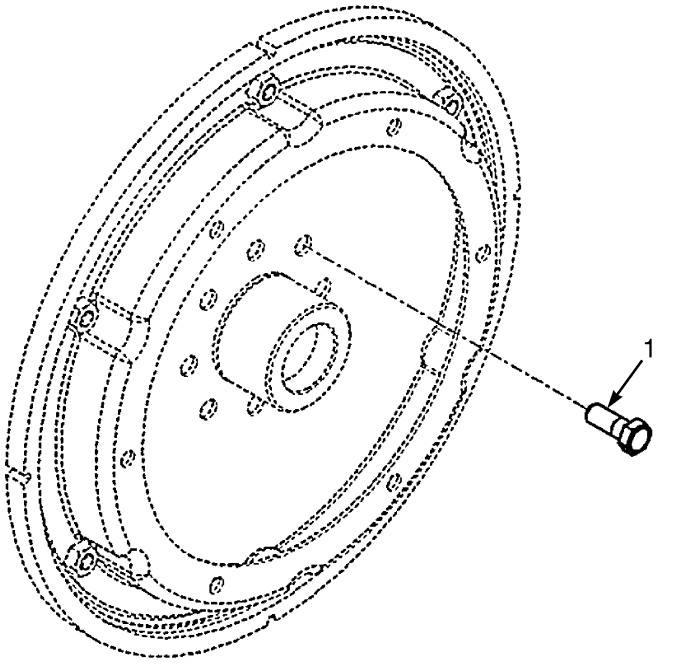
FLYWHEEL MOUNTING (FIGURE 2-67)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033283	Capscrew	8

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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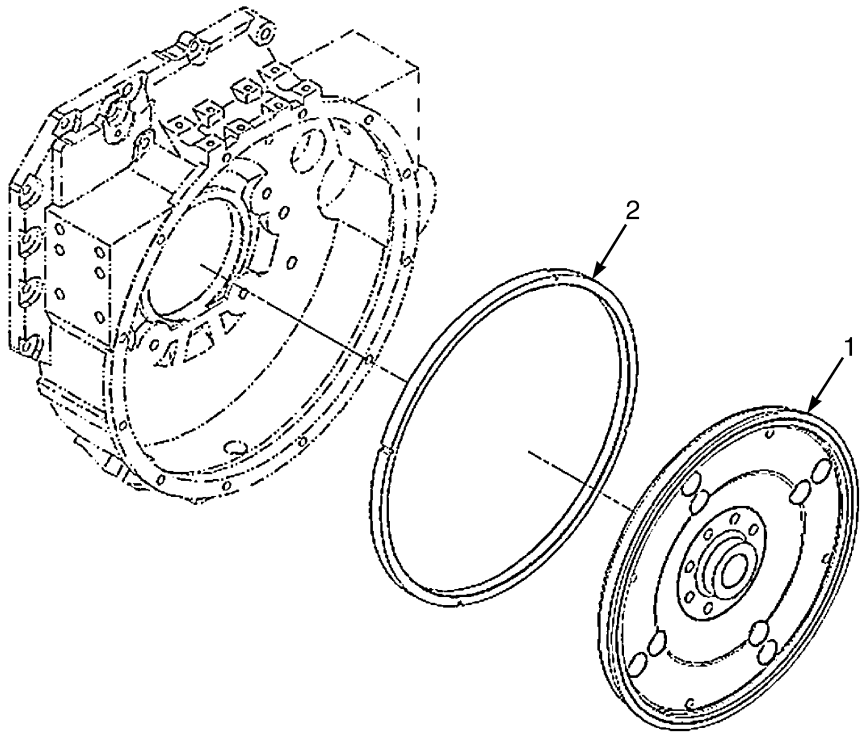
FLYWHEEL (FIGURE 2-68)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1598354	Flywheel Assembly	1
1	. . . . .	Flywheel	1
2	1512445	Ring Gear	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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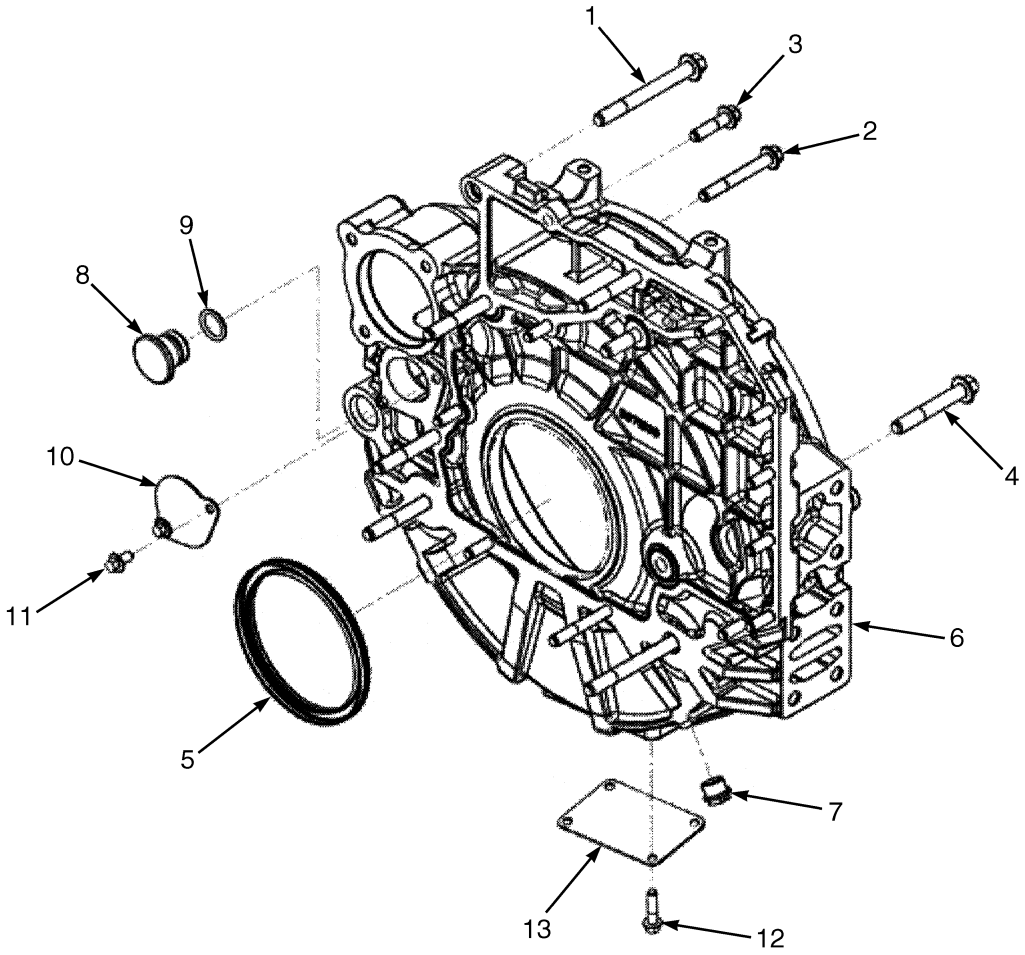
FLYWHEEL HOUSING (FIGURE 2-69)
TIER IV INTERIM ENGINE



BP090445

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FLYWHEEL HOUSING
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1635228	Capscrew	2
2	1512316	Screw	2
3	1635255	Capscrew	9
4	1511981	Capscrew	6
5	~~1696745~~		
	4033356	Oil Seal	1
6	4022317	Flywheel Housing Assembly	1
7	1512046	Plug	1
8	1512047	Fitting	1
9	1512048	O-Ring	1
10	1635256	Plate	1
11	1511970	Capscrew	2
12	1512433	Screw	4
13	1512054	Cover Plate	1
	~~1564992~~		
	1512049	Seal Kit (Rear Crank) (Includes Seal Installation Tools)	1
15	1696691	Kit-Seal (Includes InstallationTools)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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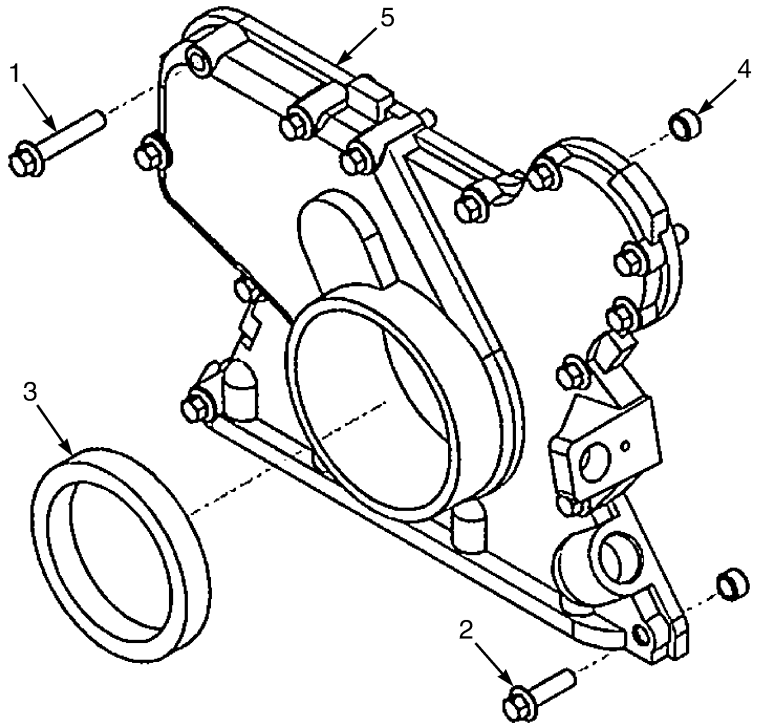
FRONT GEAR COVER (FIGURE 2-70)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512111	Capscrew	7
2	1512423	Capscrew	6
3	. . . . .	Oil Seal	1
4	1635266	Ring , Dowel	2
5	4033331	Cover	1
5	4104371	Cover (2014 Alternate Part)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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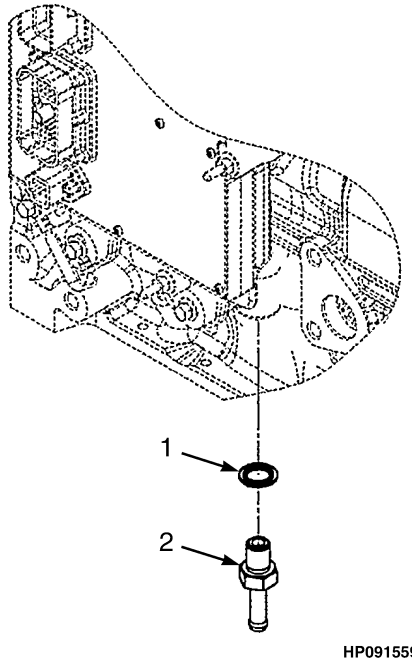
FUEL INLET FITTING (FIGURE 2-71)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1584546	Sealing Ring	1
2	4033371	Coupling	1

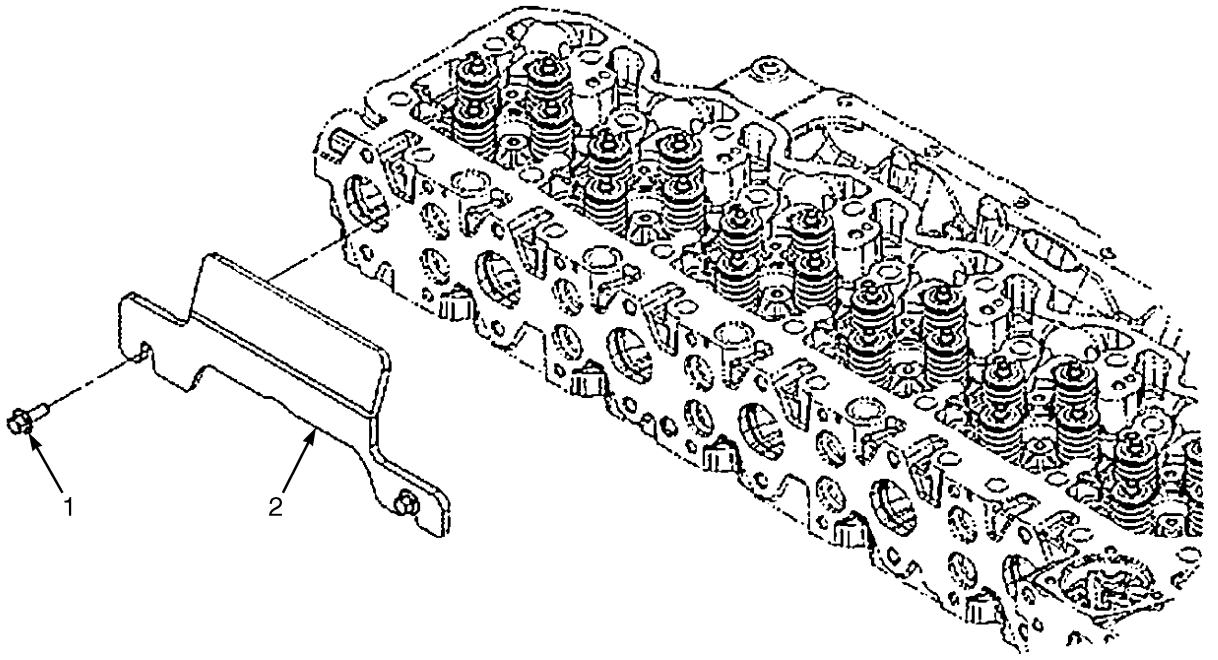
FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

HEAT SHIELD (FIGURE 2-72)
TIER IV INTERIM ENGINE



HP091575

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1635229	Capscrew	2
1	1635220	Capscrew (2014 Alternate Part)	1
2	4033357	Heat Shield	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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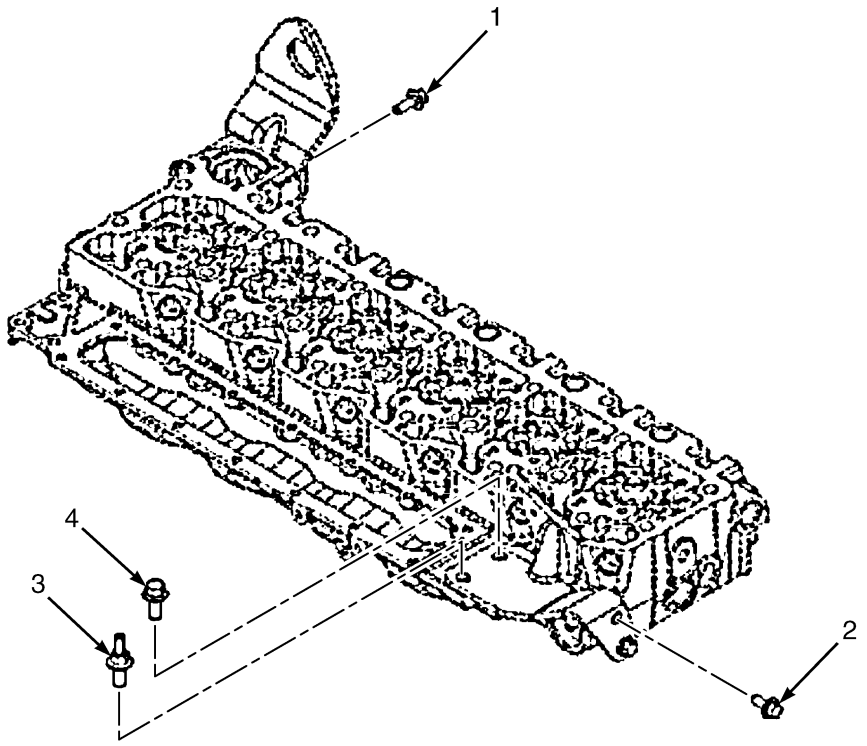
LIFTING BRACKETS (FIGURE 2-73)

TIER IV INTERIM ENGINE



HP091587

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512503	Capscrew	4
2	1512328	Capscrew	2
3	. . . . .	Screw	1
4	1661145	Capscrew	1

FOOTNOTES:

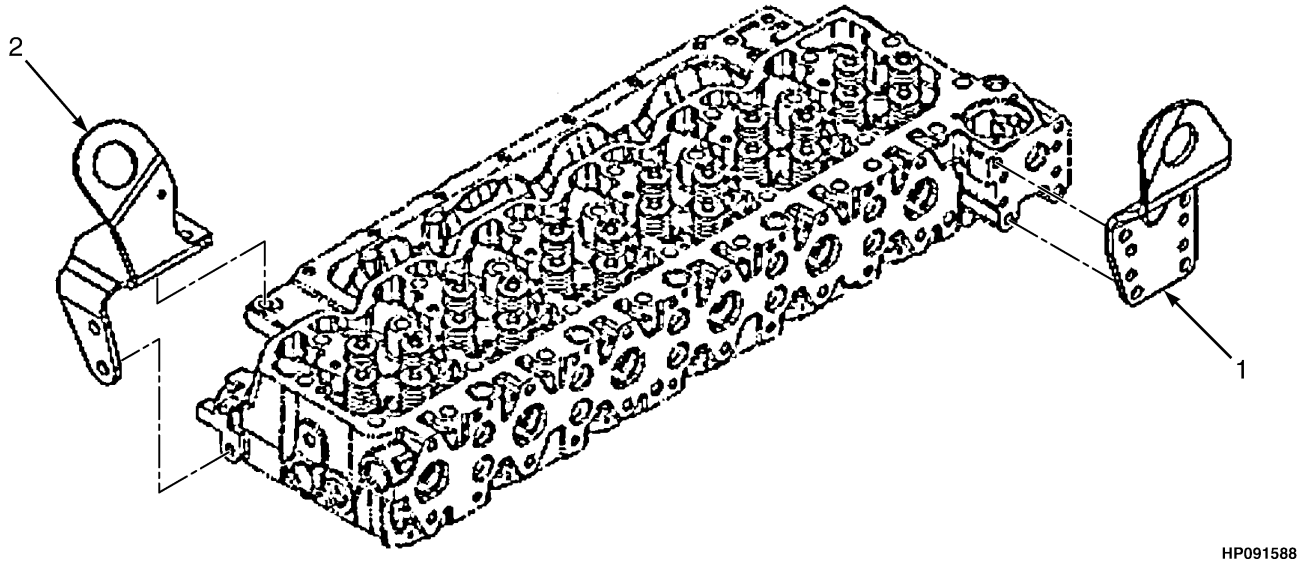
a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

LIFTING EYES (FIGURE 2-74)

TIER IV INTERIM ENGINE



HP091588

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033212	Bracket (Lifting)	1
2	4057034	Bracket (Lifting)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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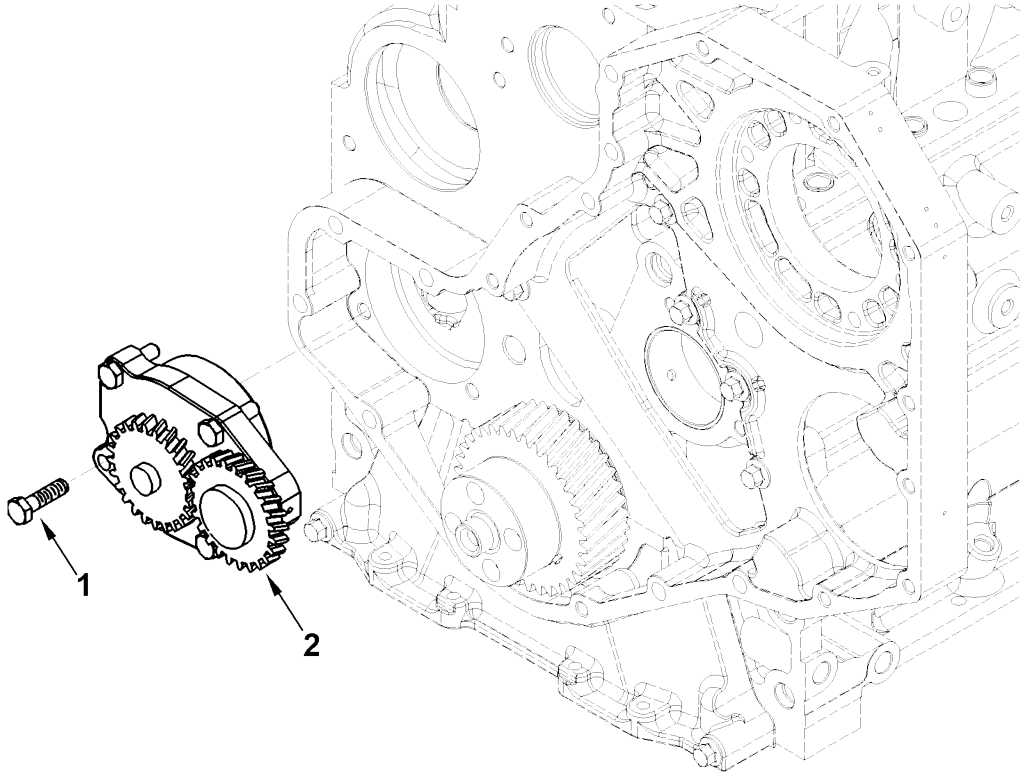
LUBRICATING OIL PUMP (FIGURE 2-75)
TIER IV INTERIM ENGINE



HP091122

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512456	Capscrew	4
2	~~1635299~~ 1702103		
	4104390	Oil Pump (Lubricating)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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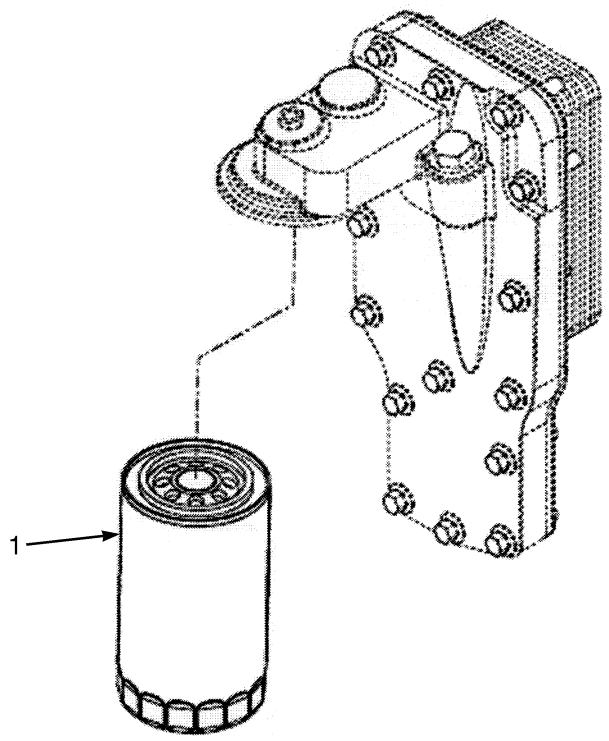
OIL FILTER (FIGURE 2-76)
TIER IV INTERIM ENGINE



HP091450

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1524551	Oil Filter	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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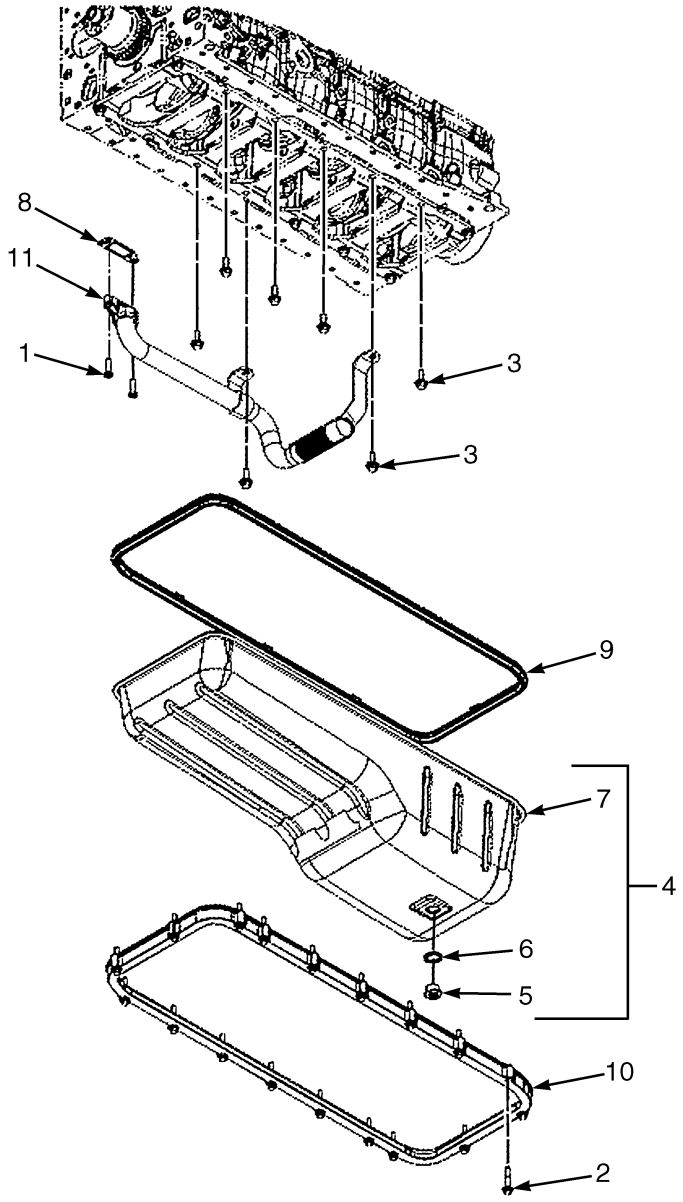
OIL PAN (FIGURE 2-77)
TIER IV INTERIM ENGINE (→ S/N B236E01709M)



HP091554

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OIL PAN

TIER IV INTERIM ENGINE (→ S/N B236E01709M)

ITEM	PART NO.	DESCRIPTION	QTY
	4009427	Engine Assy (Tier IV Interim Engine)	1
1	1635225	Capscrew	2
2	1512111	Capscrew	18
3	1512503	Capscrew	7
4	1635461	Oil Pan Assembly	1
5	1635233	Plug	2
6	1635234	Sealing Ring	2
7	. . . . .	Oil Pan	1
8	1635375	Gasket (Oil Suction Connection)	1
9	~~1635372~~		
	1702106	Gasket (Oil Pan)	1
10	4033271	Adapter	1
11	1702104	Tube	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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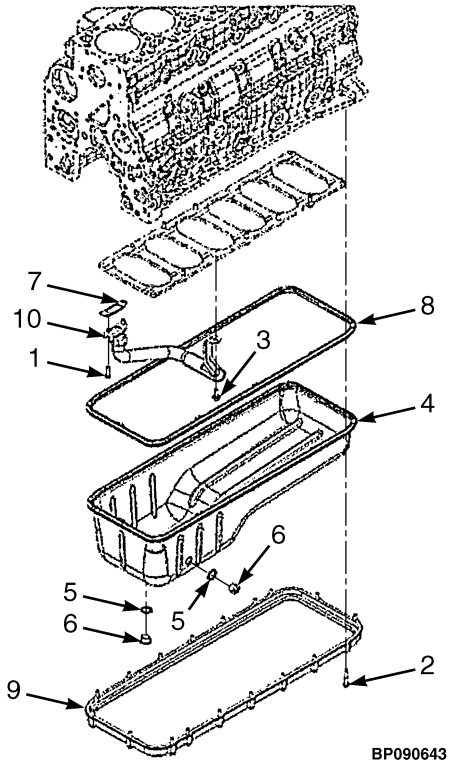
OIL PAN (FIGURE 2-78)

TIER IV INTERIM ENGINE (S/N B236E01710M →)



ITEM	PART NO.	DESCRIPTION	QTY
	4082110	Engine Assy (2013) (Service with Short Block Kit 4135331)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	. . . . .	Screw	2
2	1512111	Capscrew	18
3	1512328	Capscrew	7
4	1635461	Oil Pan Assembly	1
5	1635234	Sealing Ring	2
6	1635233	Plug	2
7	. . . . .	Gasket (Oil Suction Connection)	1
8	~~1635372~~		
	1702106	Gasket (Oil Pan) (Oil Pan)	1
9	4033271	Adapter	1
10	4084958	Tube	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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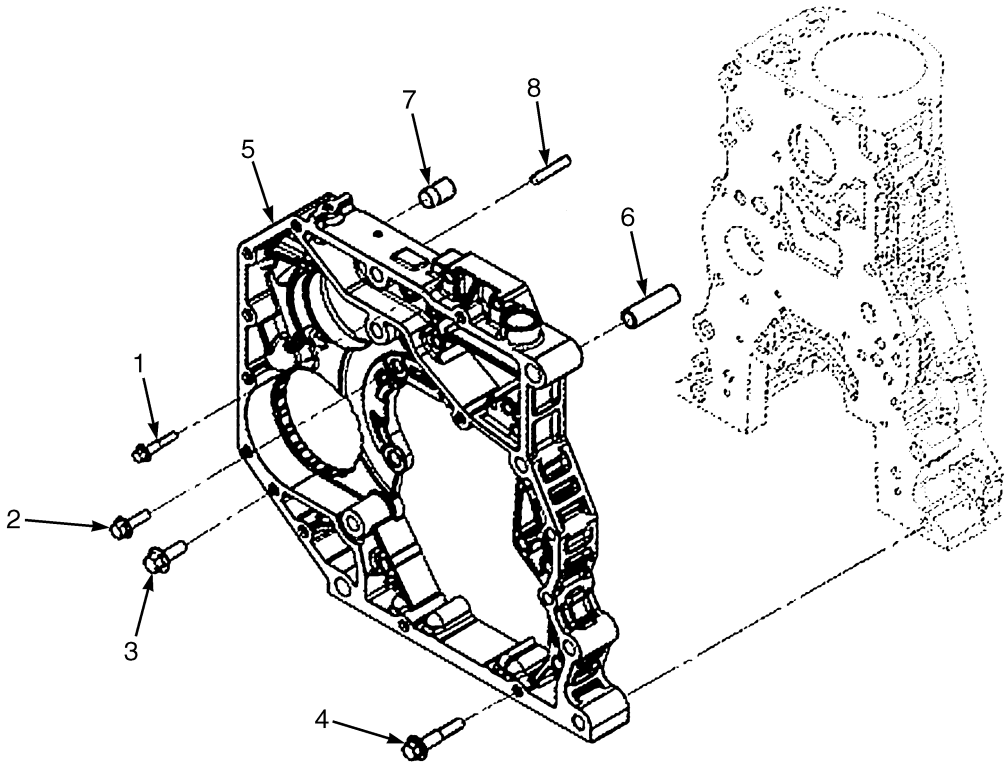
REAR GEAR HOUSING (FIGURE 2-79)
TIER IV INTERIM ENGINE



HP091546

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512111	Capscrew	4
2	1511977	Capscrew	2
3	1511953	Capscrew	1
4	1635260	Capscrew	3
5	~~4103820~~		
	~~4110429~~		
	4185014	Housing	1
6	1635270	Ring , Dowel	2
7	1635395	Insert	2
8	1635267	Stud	3

FOOTNOTES:

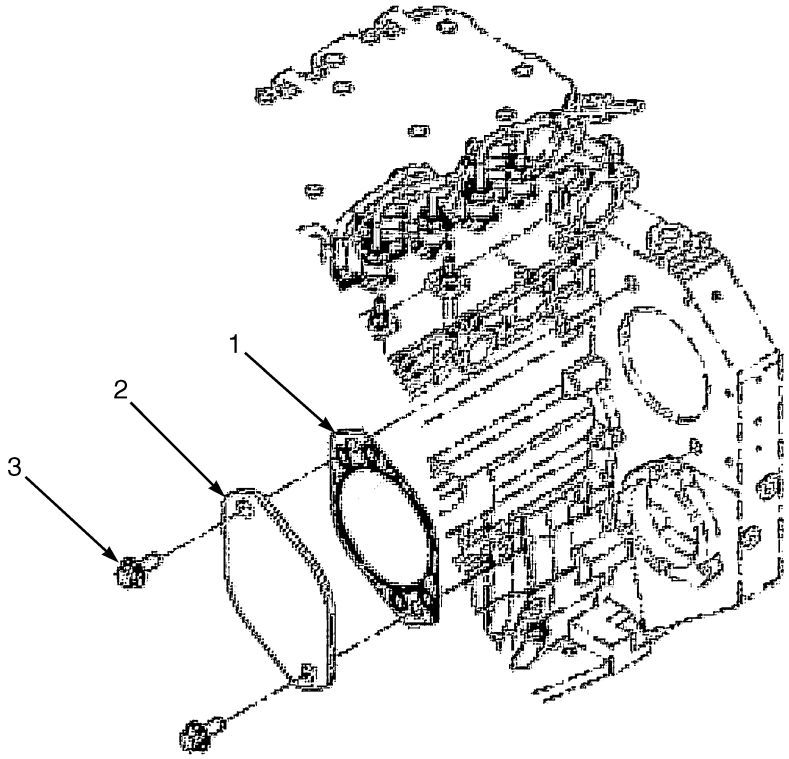
a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

REAR GEAR TRAIN ACCESSORY MOUNTING COVER (FIGURE 2-80)

TIER IV INTERIM ENGINE



HP091584

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1635367	Gasket	1
2	1512417	Cover Plate	1
3	1512418	Capscrew	2

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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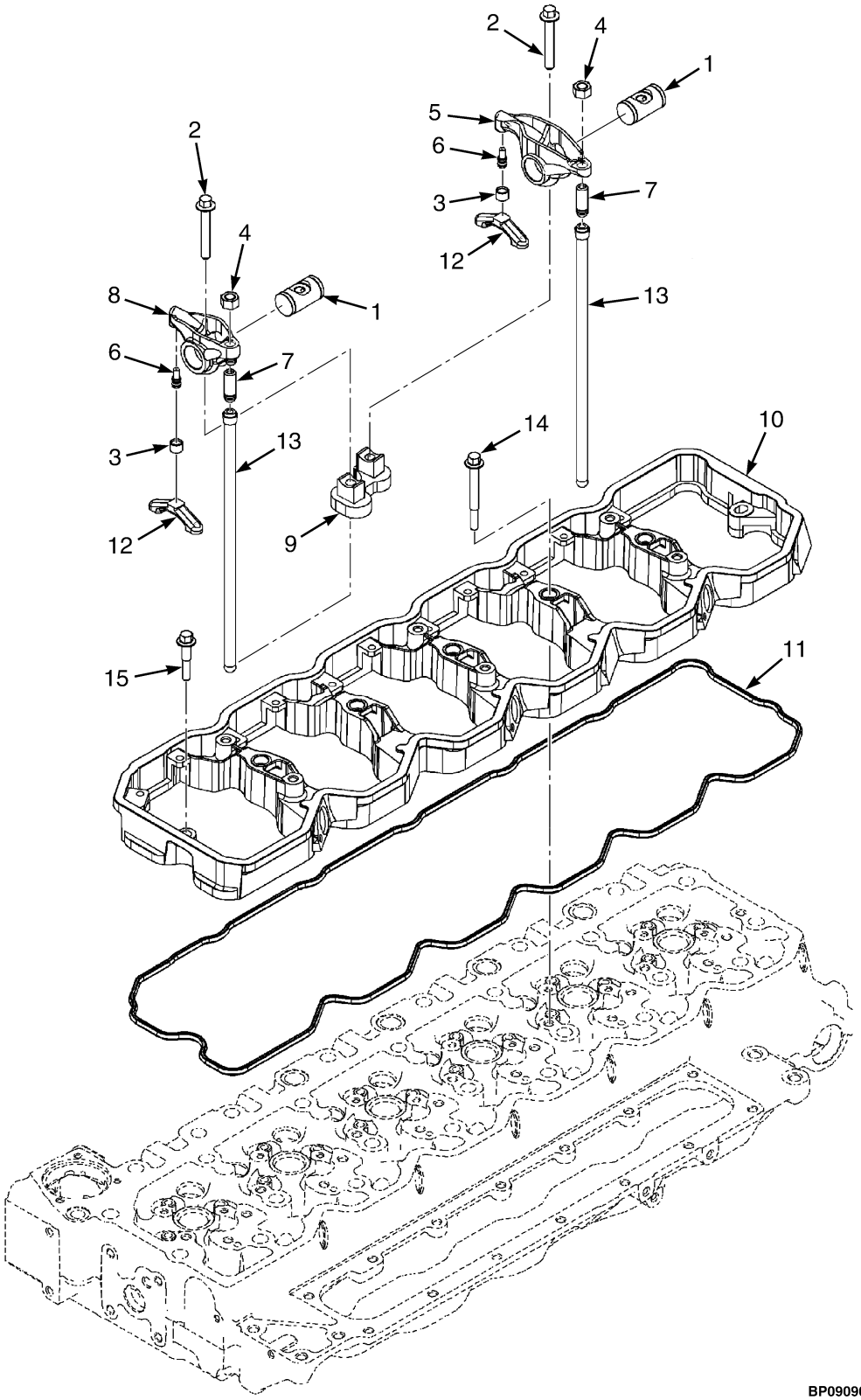
ROCKER LEVERS (FIGURE 2-81)
TIER IV INTERIM ENGINE



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ROCKER LEVERS
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4009427	Engine Assy	1
	4082110	Engine Assy (2013) (Service with Short Block Kit 4135331)	1
	4098706	Engine Assy (2014)	1
	4098704	Engine Assy	1
	4033314	Rocker Arm Assembly	6
1	1635388	Rocker Shaft	2
2	1553952	Capscrew	2
3	. . . . .	Socket	2
4	1513806	Nut	2
5	. . . . .	Rocker Lever	1
6	. . . . .	Ball	2
7	1553956	Screw	2
8	. . . . .	Rocker Lever	1
9	1584933	Support Assembly	1
10	4033223	Housing Assembly	1
11	4033215	Gasket	1
12	1521944	Valve (Crosshead)	12
13	1521943	Push Rod	12
14	1635254	Capscrew	5
15	1513725	Capscrew	2

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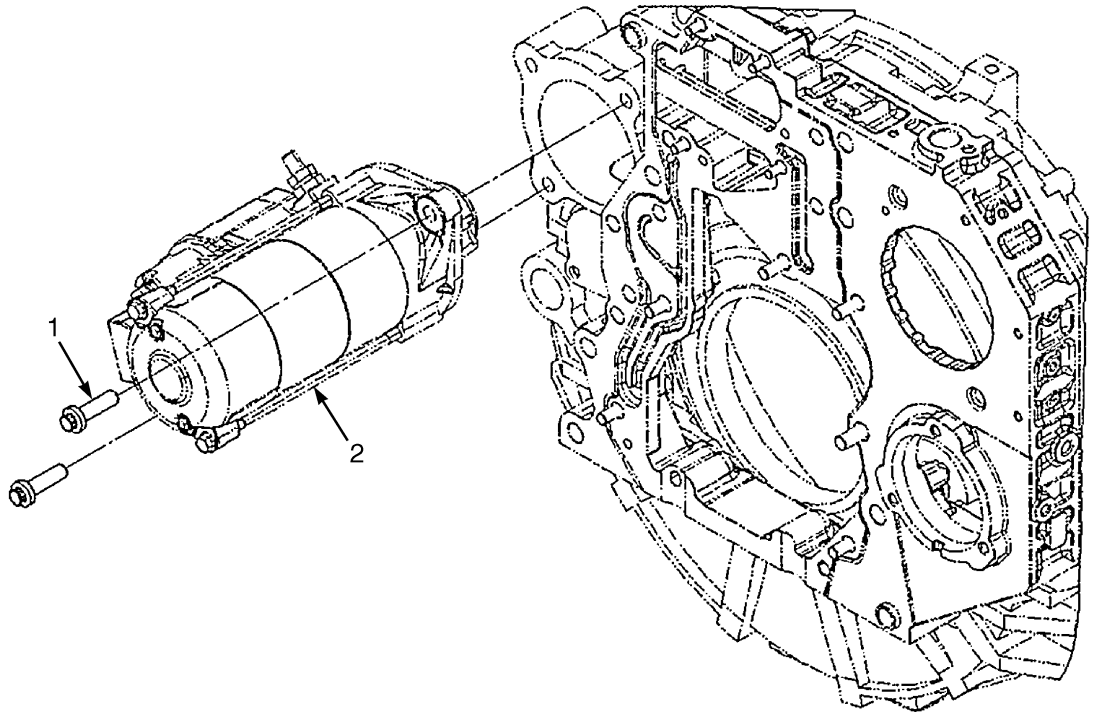
STARTER MOTOR AND MOUNTING (FIGURE 2-82)
TIER IV INTERIM ENGINE



HP091567

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1588828	Capscrew	2
2	~~1551462~~		
	4033323	Starter	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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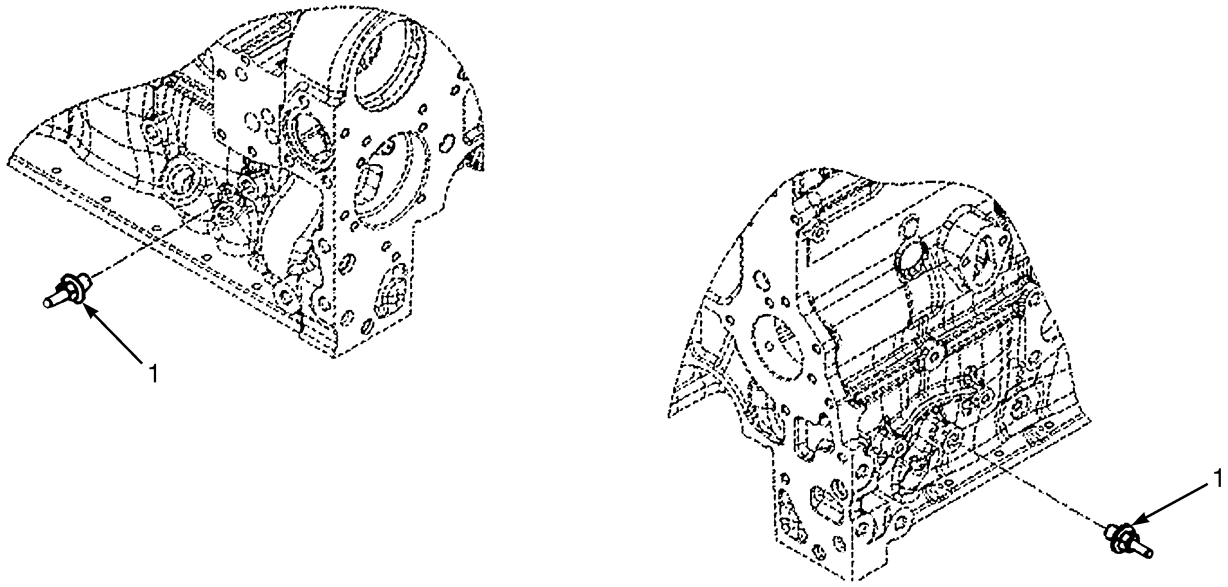
STUD GROUNDING (FIGURE 2-83)
TIER IV INTERIM ENGINE



HP091550

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1661440	Capscrew	2

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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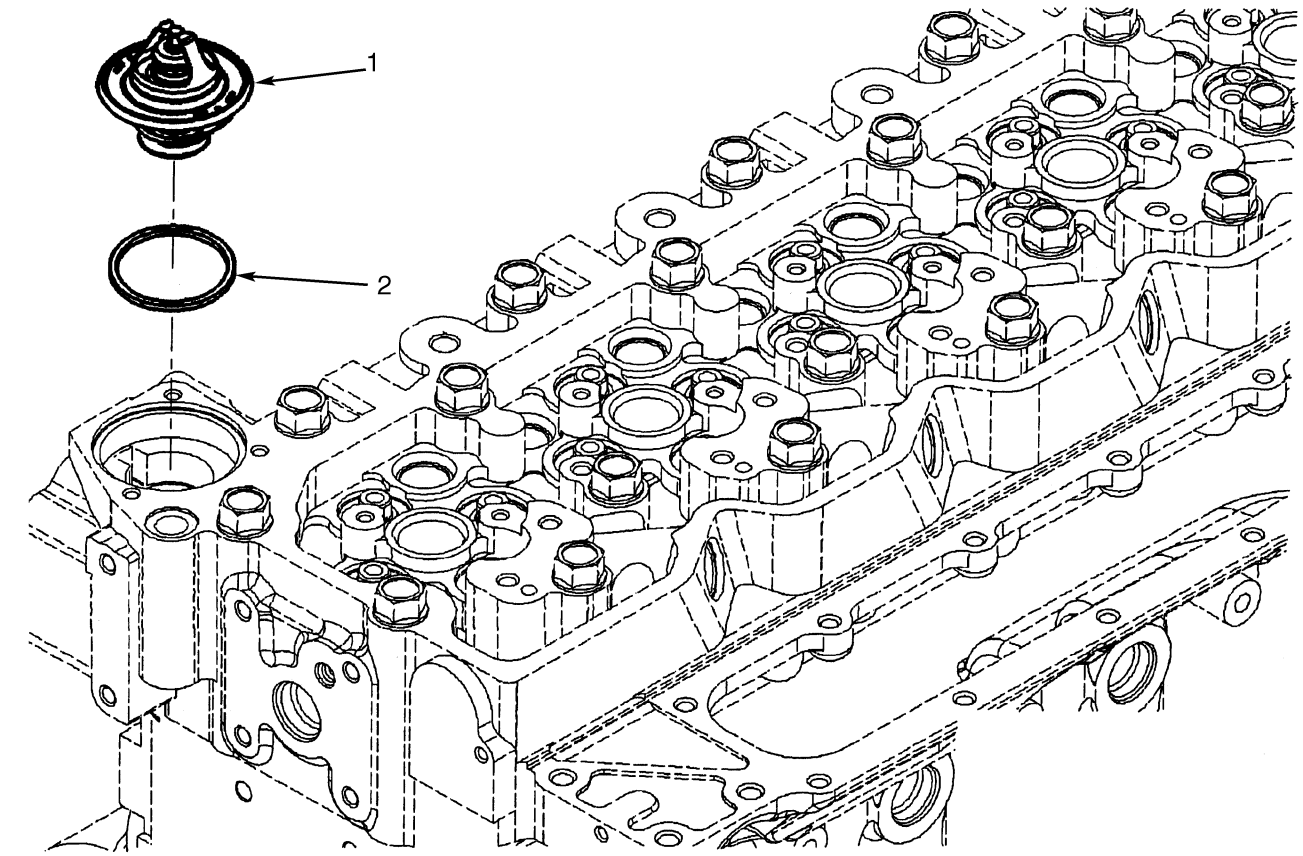
THERMOSTAT (FIGURE 2-84)
TIER IV INTERIM ENGINE



HP090893

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	~~1637803~~		
	4061623	Thermostat	1
2	1552716	Seal	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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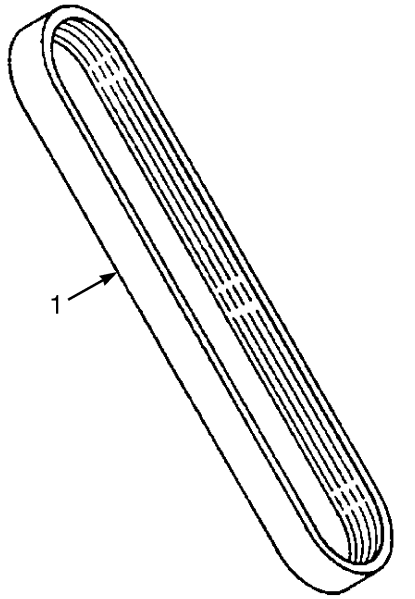
V-BELT (FIGURE 2-85)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4043618	V-Belt	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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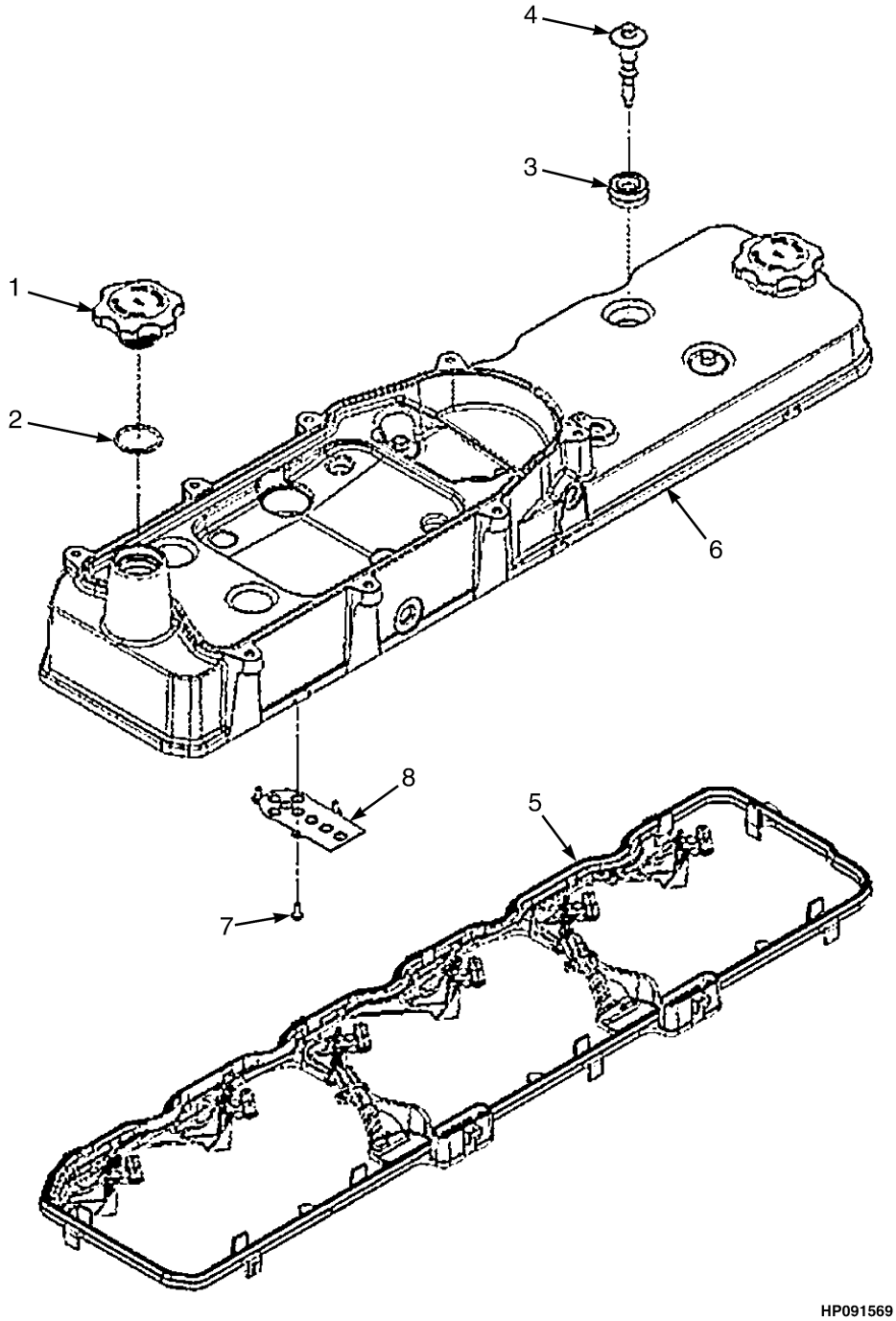
VALVE COVER (FIGURE 2-86)
TIER IV INTERIM ENGINE



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VALVE COVER
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033218	Cap Assy, Filler	2
2	4033219	O-Ring	1
3	4036202	Capscrew And Isolator Set	1
3	4033220	Isolator	1
4	. . . . .	Capscrew	1
5	4033381	Gasket	1
6	4033360	Cover Assembly	1
6	4033229	Gasket	1
6	4104370	Cover (2014 Alternate Part)	1
7	1644125	Screw (Self Tapping)	3
8	. . . . .	Baffle	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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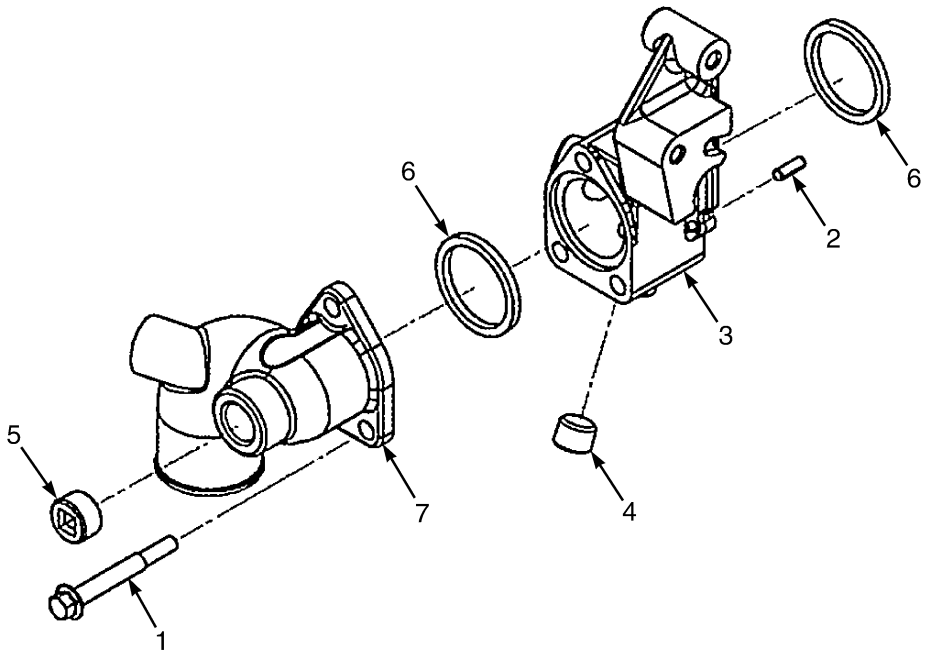
WATER INTAKE CONNECTION (FIGURE 2-87)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1521938	Capscrew	3
2	1521970	Water Inlet	1
2	1521971	Roll Pin	1
3	. . . . .	Water Inlet	1
4	1689641	Plug	1
5	1644095	Fitting	1
6	1694953	Seal	2
7	4033363	Connector	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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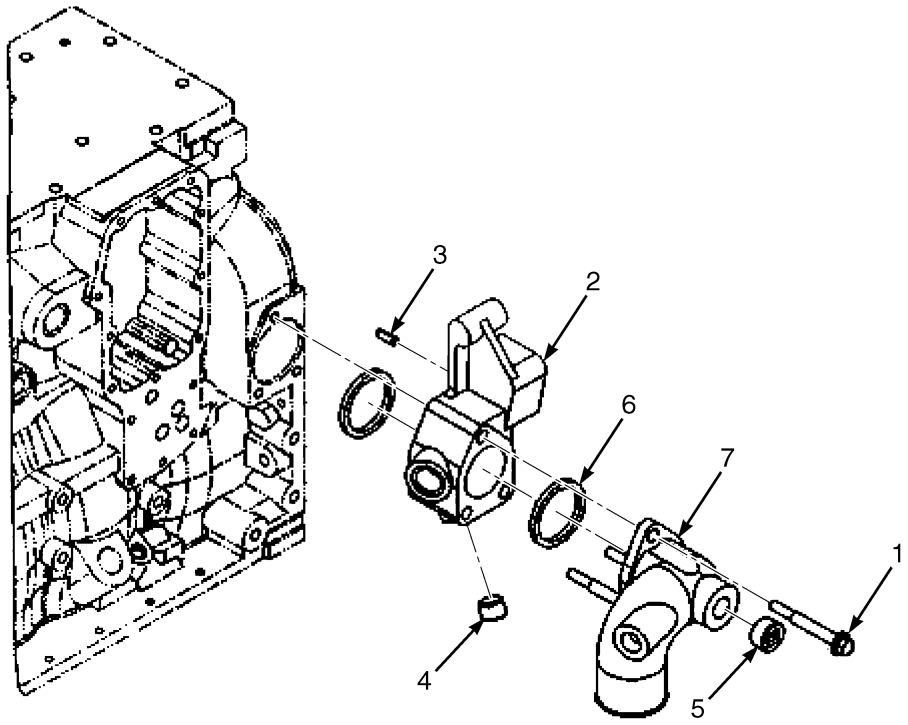
WATER INLET CONNECTION (FIGURE 2-88)

TIER IV INTERIM ENGINE 4098706



HP091705

ITEM	PART NO.	DESCRIPTION	QTY
	4098706	Engine Assy (2014)	1
1	1521938	Capscrew	3
2	1521970	Water Inlet	1
3	1521971	Roll Pin	2
4	1511952	Fitting	1
5	1512292	Plug	1
6	1694953	Seal	2
7	4033363	Connector	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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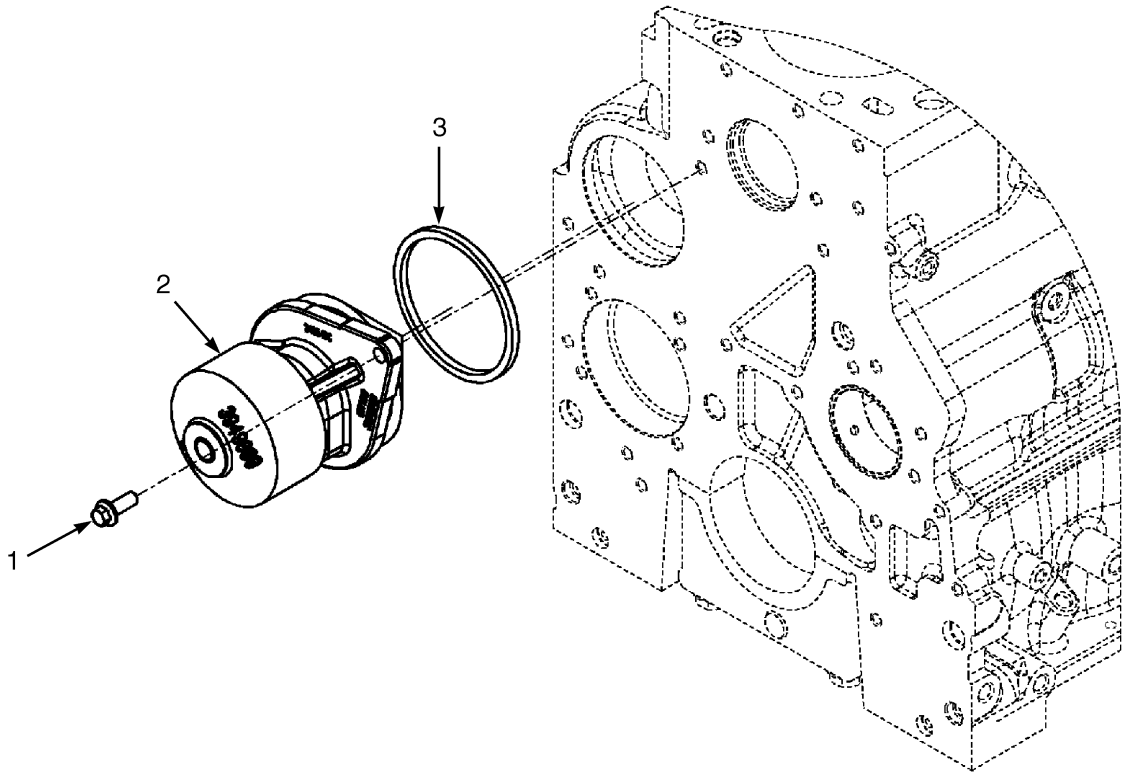
WATER PUMP (FIGURE 2-89)
TIER IV INTERIM ENGINE



HP091363

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1512323	Screw	2
1	~~1691854~~		
	1597807	Capscrew (Flange) (2014 Alternate Part)	1
2	4043615	Kit-Repair Water Pump	1
2	~~4104554~~		
	4109635	Kit-Water Pump (2014 Alternate Part)	1
3	1512322	Sealing Ring	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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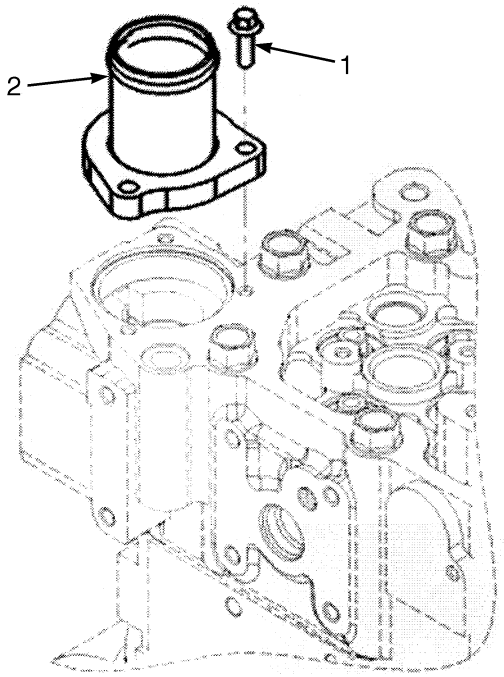
WATER OUTLET CONNECTION (FIGURE 2-90)
TIER IV INTERIM ENGINE



HP091454

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1513792	Capscrew	3
2	4033211	Connector	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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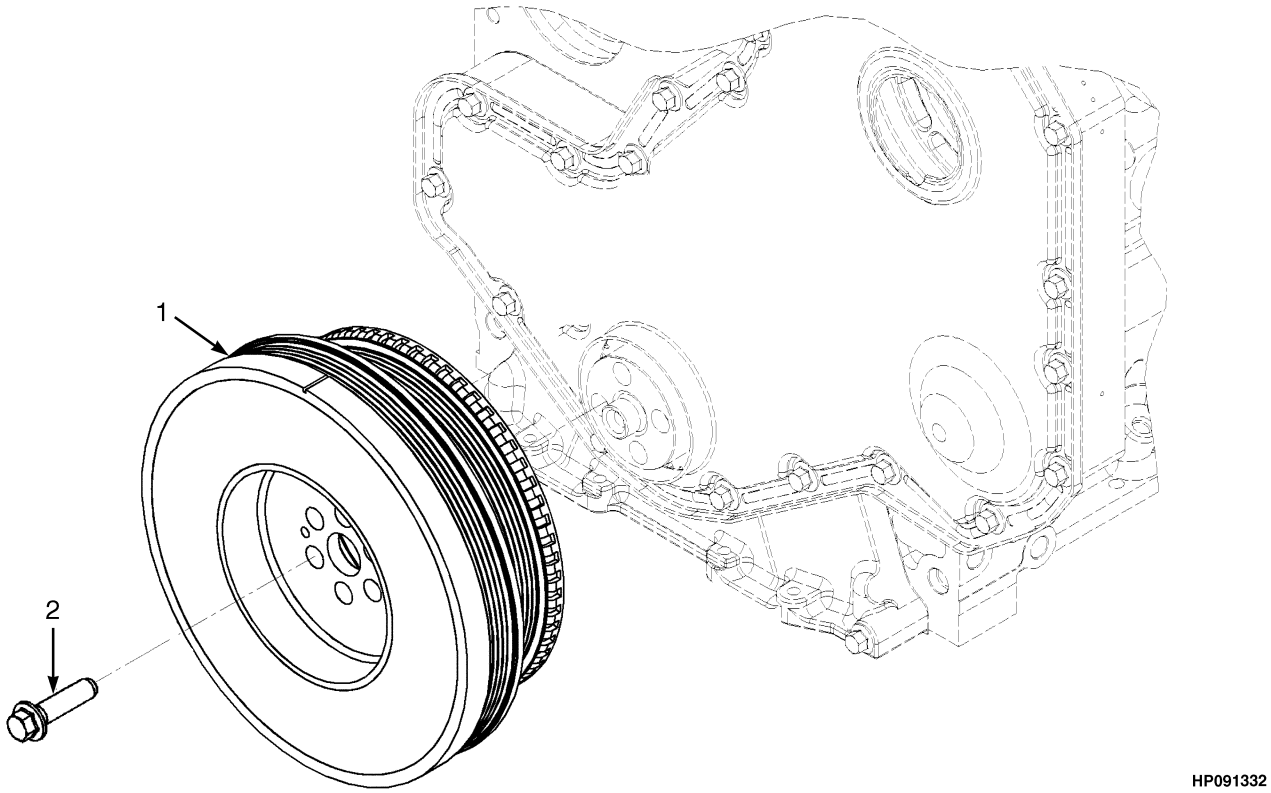
VIBRATION DAMPER (FIGURE 2-91)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	~~1635328~~		
	4110434	Vibration Damper	1
1	. . . . .	Vibration Damper (2014 Alternate Part)	1
2	1635366	Capscrew	1
2	4103835	Capscrew (2014 Alternate Part)	6

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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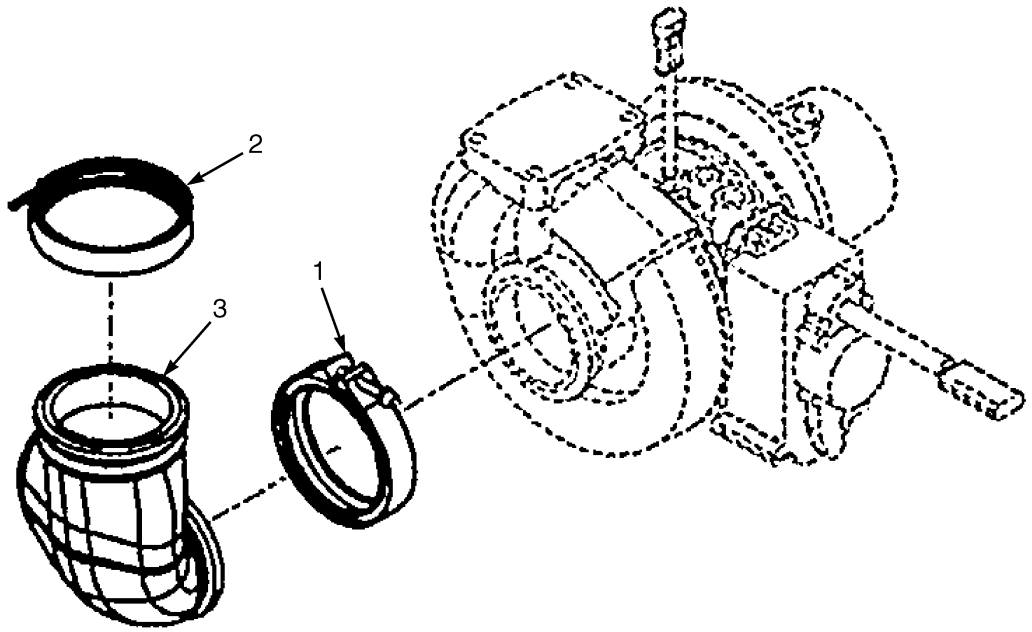
EXHAUST OUTLET ELBOW (FIGURE 2-92)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4043620	Clamp	1
2	4054703	Clamp	1
3	4043621	Elbow	1

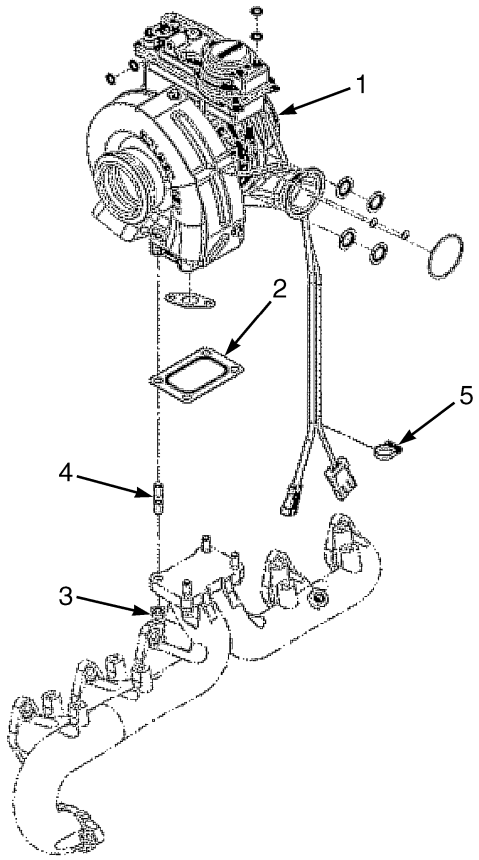
FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

TURBOCHARGER (FIGURE 2-93)
TIER IV INTERIM ENGINE



HP091596

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4045110	Kit (Turbocharger)	1
1	4172047	Kit Incomplete Turbo (2014 Alternate Part)	1
1	4172050	Kit Actuating Mounting (2014 Alternate Part)	1
1	4041762	Kit-Sensor (Speed) (2014 Alternate Part)	1
2	4036276	Gasket	1
3	1513338	Nut	4
4	1515863	Stud	4
5	4036279	Clip	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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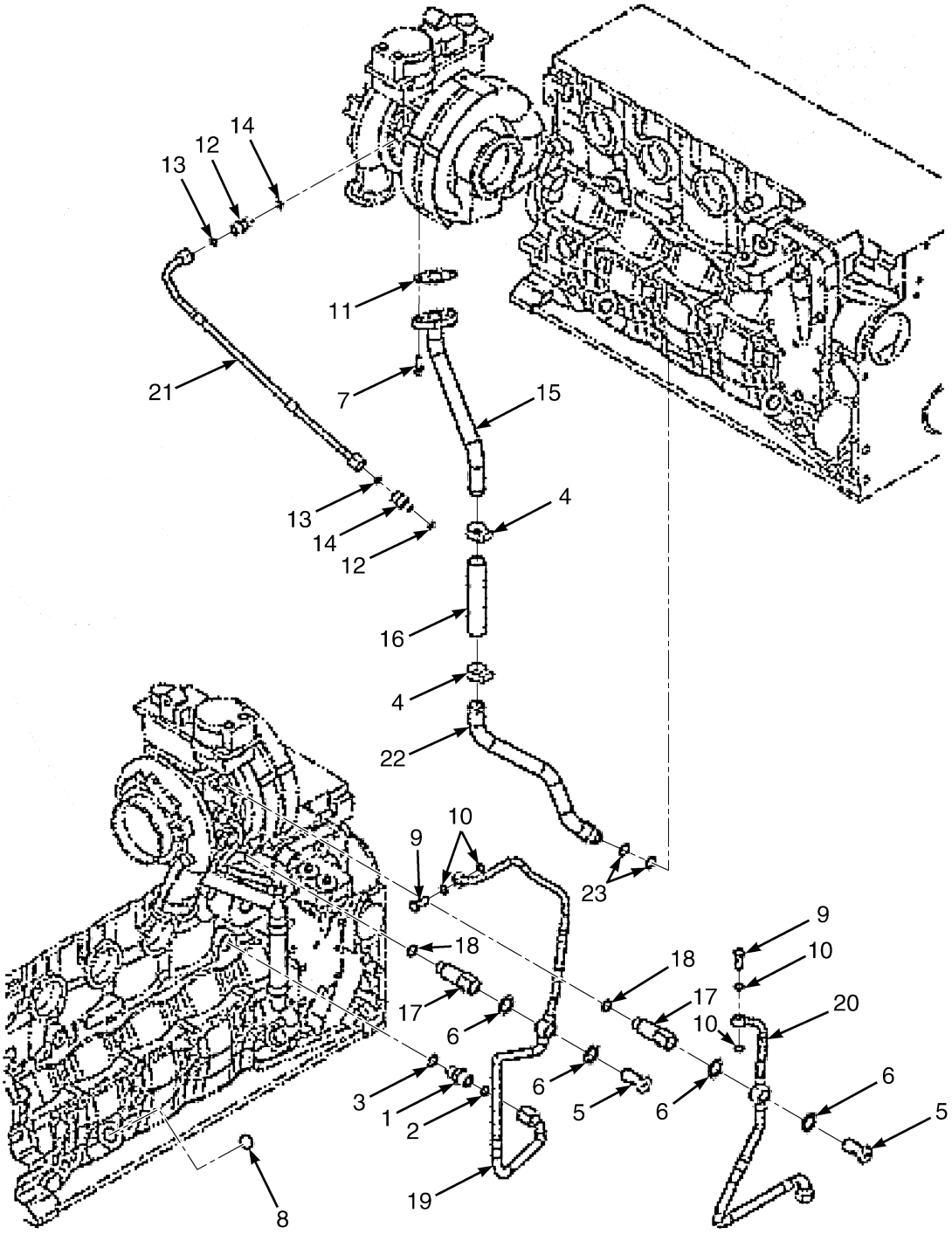
TURBOCHARGER PLUMBING (FIGURE 2-94)
TIER IV INTERIM ENGINE



HP091590

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TURBOCHARGER PLUMBING
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033201	Fitting	1
2	1606579	O-Ring	1
3	1515898	O-Ring	1
4	1517268	Hose Clamp	2
4	4109457	Hose Clamp (2014 Alternate Part)	2
5	4033202	Screw	2
6	4033203	Washer	4
7	1512004	Capscrew	2
8	1514339	Plug	1
9	4033213	Screw	2
10	4033251	Washer (Sealing)	4
11	~~4036234~~		
	1661396	Gasket , Oil Drain	1
12	~~1521960~~		
	1702184	Connector Assembly	2
13	1513430	O-Ring	1
14	1517069	O-Ring	1
15	4033385	Connector	1
16	4033337	Hose	1
16	4172055	Hose (2014 Alternate Part)	1
17	4033321	Connector Assembly	1
18	4033312	Seal	1
19	4033352	Tube (Coolant Supply)	1
20	4033322	Tube (Coolant Drain)	1
21	4033324	Tube (Oil Supply)	1
22	4033329	Tube (Oil Drain)	1
22	4172054	Tube (Oil Drain) (2014 Alternate Part)	1
23	1514571	Seal	2

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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3 FUEL SYSTEM

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FUEL SYSTEM

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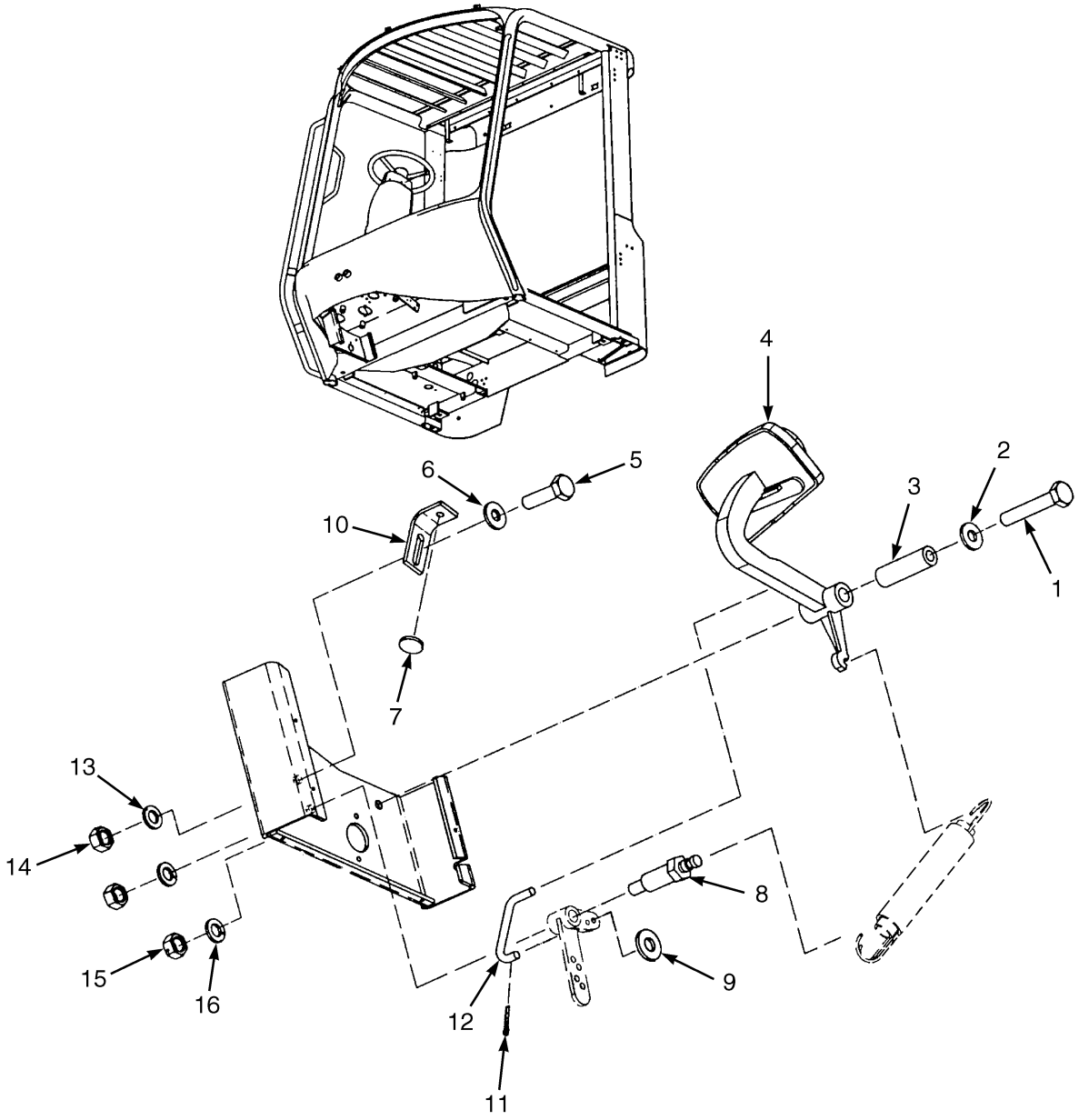
MONOTROL PEDAL LINKAGE (FIGURE 3-1)



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MONOTROL PEDAL LINKAGE

ITEM	PART NO.	DESCRIPTION	QTY
1	292523	Capscrew	1
2	320160	Washer	1
3	353141	Tube Assy (Pivot)	1
4	1352575	Monotrol Pedal Assembly (☞Figure 3-2)	1
5	136749	Screw	1
6	1468323	Washer	1
7	353195	Bumper	1
8	352485	Shaft	1
9	320156	Washer	1
10	1494675	Bracket (Pedal Stop)	1
11	15200	Cotter Pin	1
12	353129	Rod	1
13	320158	Washer	1
14	316835	Nut	1
15	136692	Nut	2
16	~~388049~~		
	292682	Lockwasher	2

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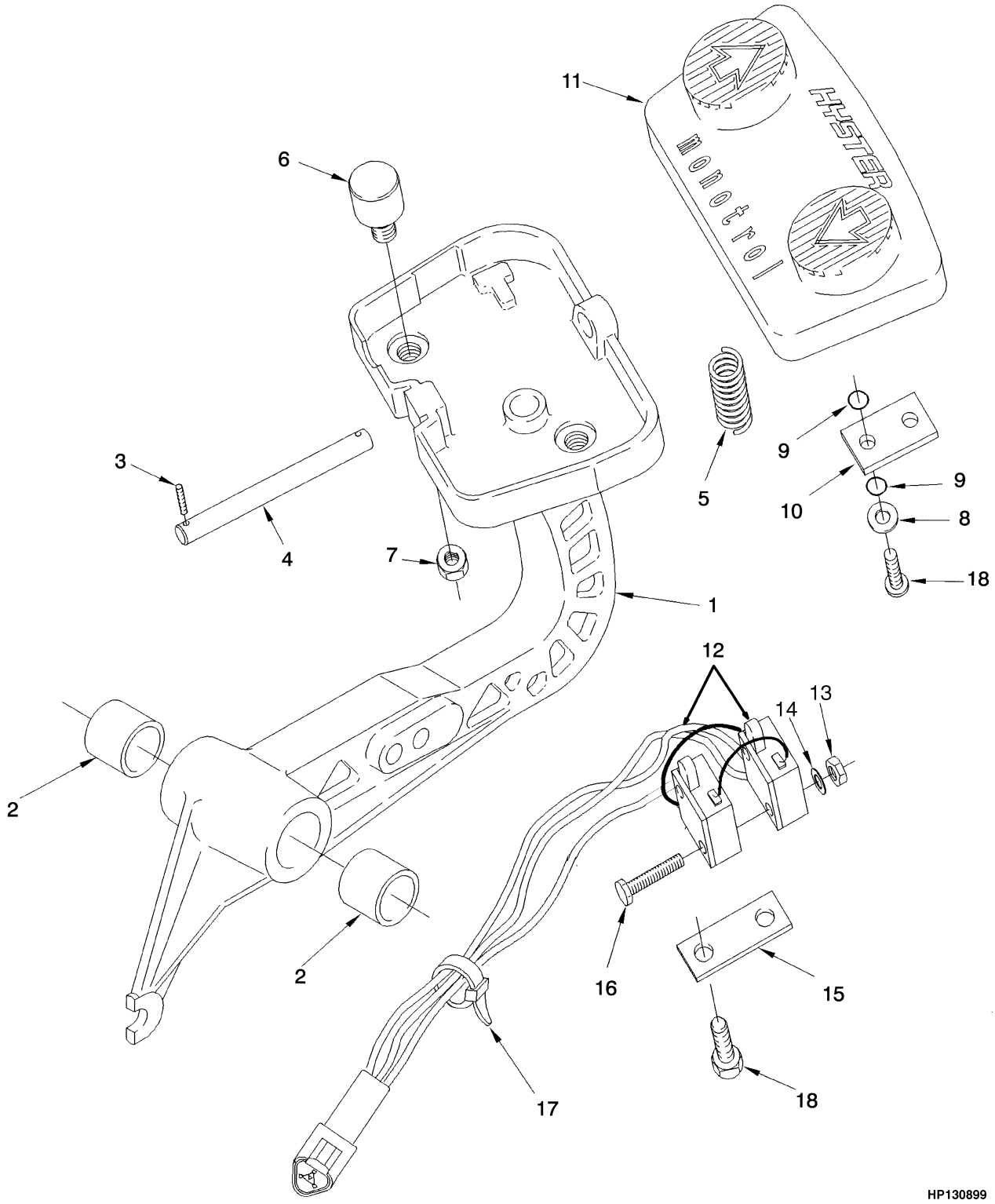
MONOTROL PEDAL ASSEMBLY (FIGURE 3-2)



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MONOTROL PEDAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1352575	Monotrol Pedal Assembly	1
1	353397	Pedal	1
2	135685	Bushing	2
3	220932	Setscrew	2
4	353154	Pin	1
5	353168	Spring	1
6	353441	Magnet Assembly	2
6	353422	Magnet	1
7	353432	Nut	1
8	353448	Washer	4
9	57568	O-Ring	8
10	359207	Plate	2
11	353175	Pad Assembly	1
11	353231	Plate	1
11	186493	Screw	1
11	15152	Lockwasher	1
12	1352090	Switch Assembly	1
13	16865	Nut	2
14	53162	Lockwasher	2
15	353165	Retainer	1
16	220434	Screw	2
17	114312	Strap Clamp	3
18	352969	Screw	6

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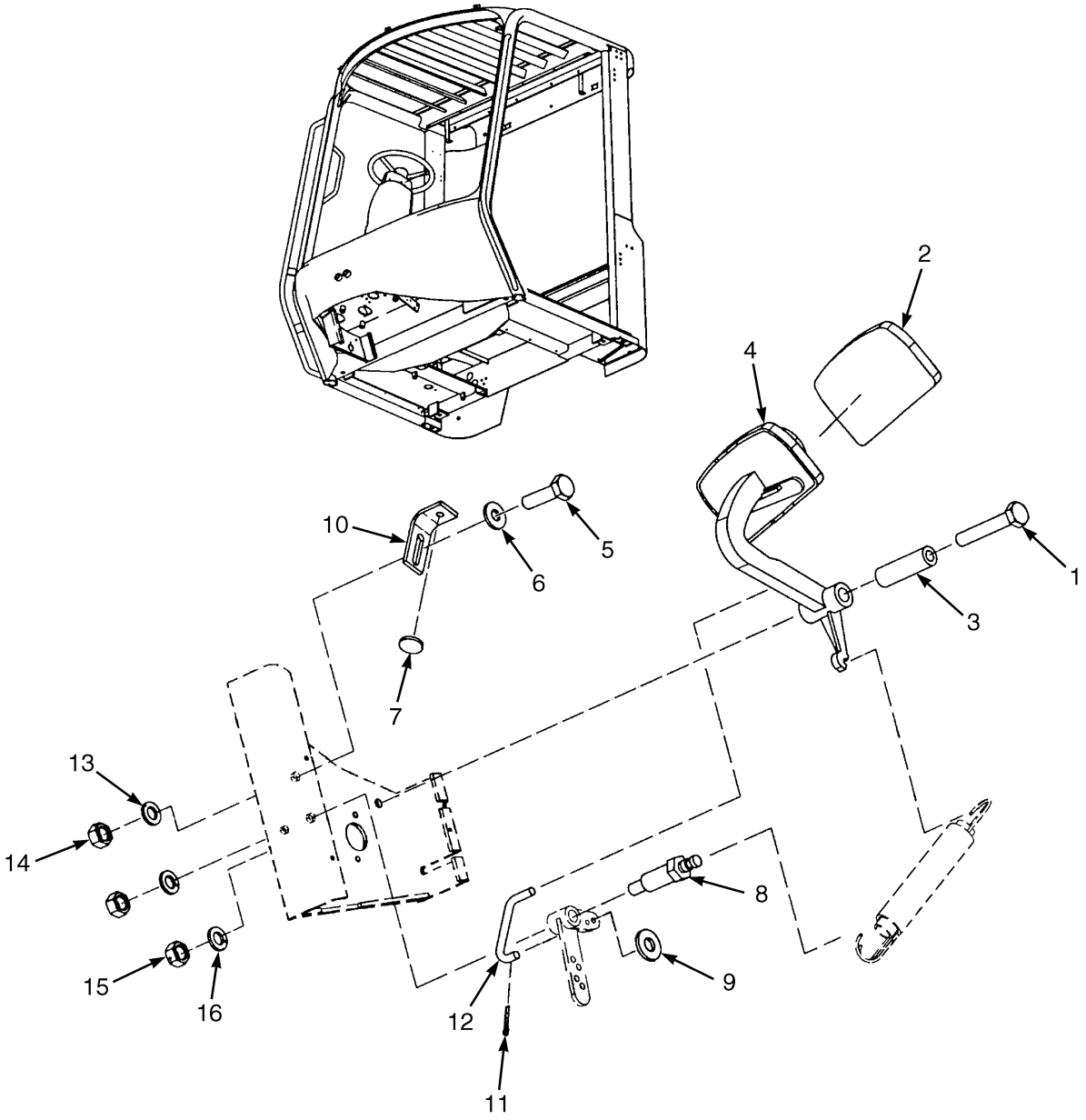
FORWARD/REVERSE PEDAL LINKAGE (FIGURE 3-3)



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FORWARD/REVERSE PEDAL LINKAGE

ITEM	PART NO.	DESCRIPTION	QTY
1	1558053	Bolt	1
2	352885	Rubber Pad	1
3	325708	Tube Assy (Pivot)	1
4	352499	Pedal (Accelerator)	1
5	136749	Screw	1
6	1468323	Washer	1
7	353195	Bumper	1
8	352485	Shaft	1
9	320156	Washer	1
10	1494675	Bracket (Pedal Stop)	1
11	15200	Cotter Pin	1
12	353129	Rod	1
13	320158	Washer	1
14	316835	Nut	1
15	302401	Locknut	2
16	1558052	Washer	2

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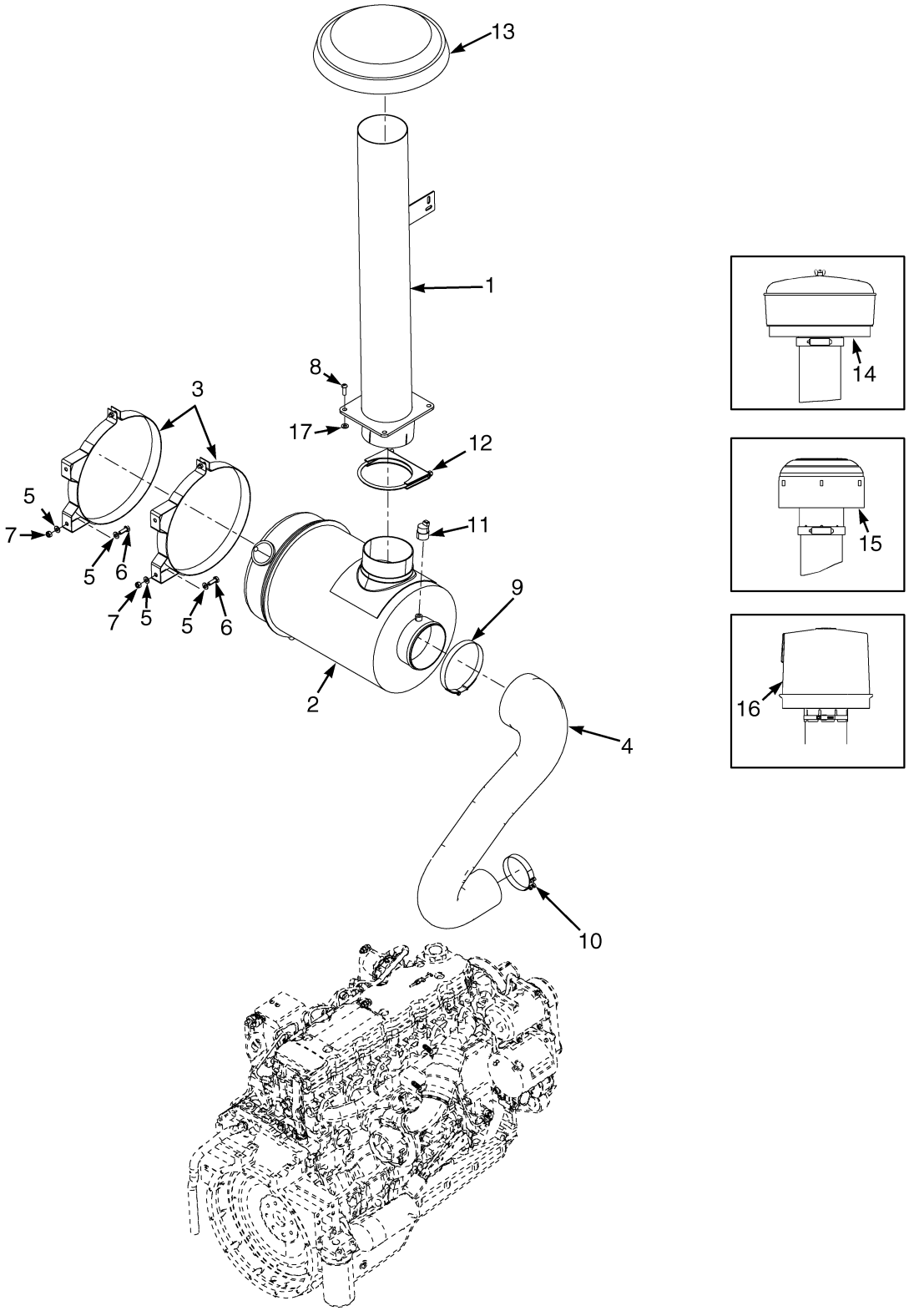
AIR INTAKE SYSTEM (FIGURE 3-4)
TIER III ENGINE



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AIR INTAKE SYSTEM
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1610632	Air Duct	1
2	4001853	Air Filter Assembly	1
2	1373550	Air Filter (☞Figure 3-6)	1
2	1373554	Label (Standard Element)	1
2	1373555	Label (Safety Element)	1
3	145823	Mount	2
4	1613705	Hose	1
5	320159	Washer	8
6	136985	Capscrew	4
7	302401	Locknut	4
8	1597444	Capscrew	4
9	1507395	Clamp	1
10	1512814	Clamp	1
11	1486218	Switch , Vacuum	1
12	1373437	Clamp	1
13	1507268	Rain Cap	1
14	1506832	Pre-Cleaner	1
14	1458358	Cover	1
14	1458361	Bowl	1
15	1629082	Pre-Cleaner	1
15	1656996	Clamp (T-Bolt)	1
16	1647749	Pre-Cleaner (Topspin)	1
17	1581558	Washer	4

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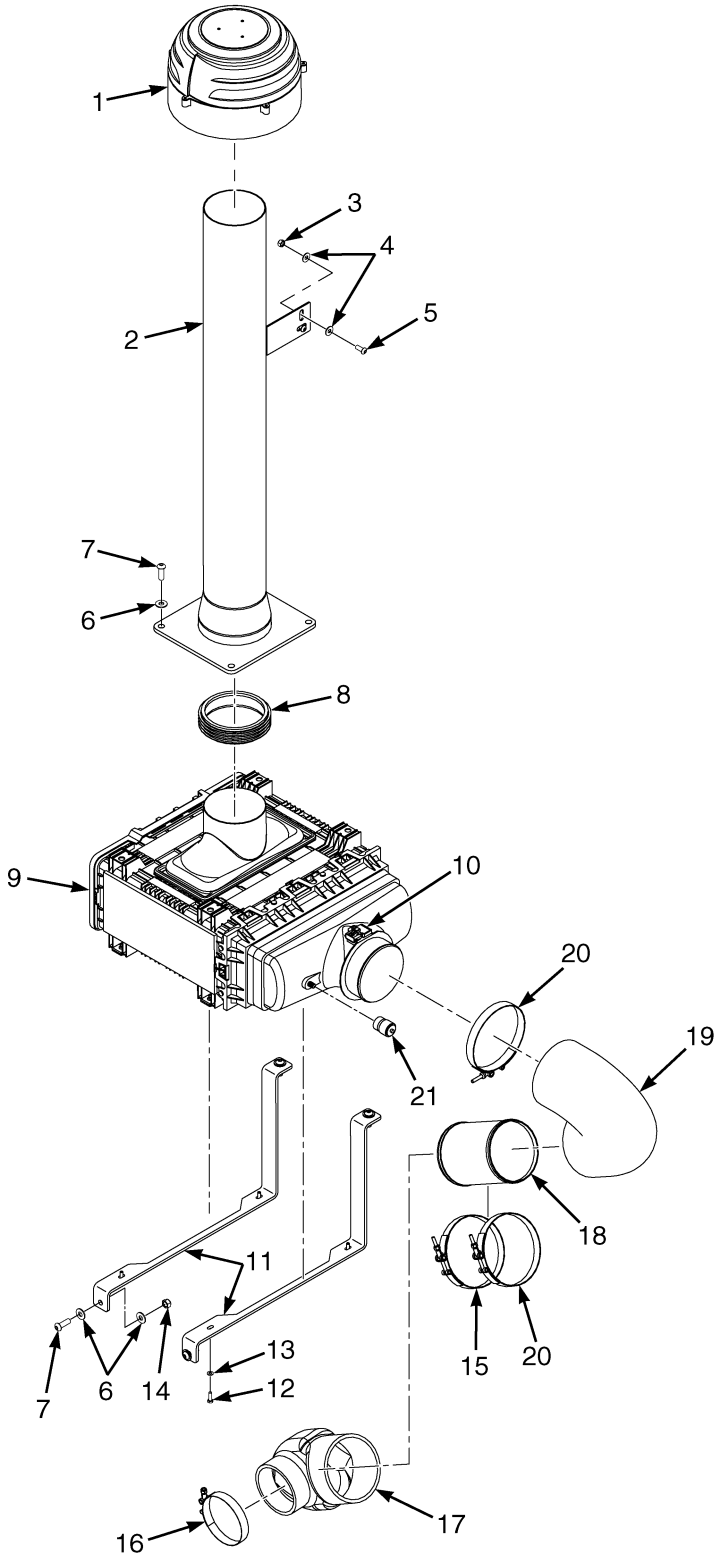
AIR INTAKE SYSTEM (FIGURE 3-5)
TIER IV INTERIM ENGINE



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AIR INTAKE SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	4017737	Pre-Cleaner (Sy-Klone Type)	1
2	4009744	Air Duct	1
3	1581566	Nut	2
4	1581851	Washer	4
5	1597448	Capscrew	2
6	1581558	Washer	12
7	1597444	Capscrew	8
8	4014282	Seal	1
9	4016269	Air Filter Assembly	1
9	4024331	Air Filter (Includes Dev Tube, Cap, J-Clips)	1
9	4024328	Filter Element (Primary)	1
9	4024329	Filter Element (Secondary)	1
9	4024330	Air Filter (Service Door)	1
10	~~4024332~~		
	4107998	Sensor , Ambient Air Pressure and Temperature	1
11	4011986	Plate	2
12	292501	Capscrew	4
13	320156	Washer	4
14	302401	Locknut	4
15	1561567	Clamp	1
16	1507394	Clamp	1
17	4008683	Elbow	1
18	4009747	Tube	1
19	4009749	Hose	1
20	1507362	Clamp	2
21	1486218	Switch , Vacuum	1

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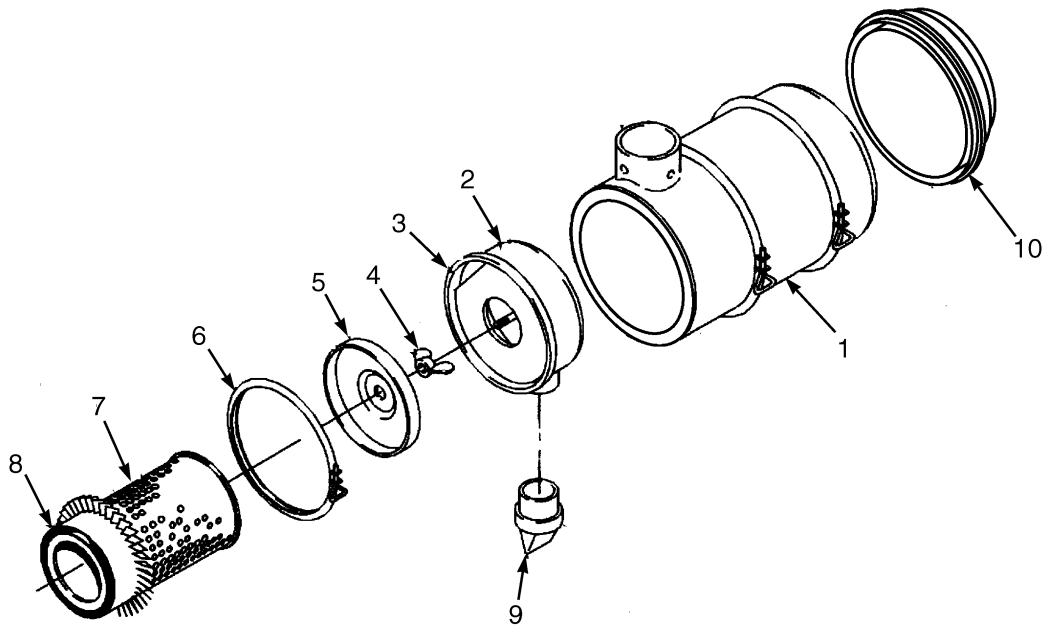
AIR CLEANER ASSEMBLY (FIGURE 3-6)
TIER III ENGINE



HP130422

ITEM	PART NO.	DESCRIPTION	QTY
1	1373550	Air Filter	1
2	214339	Cap	1
3	151554	O-Ring	1
4	252793	Nut	2
5	168371	Baffle	1
6	151551	Clamp	1
7	1373552	Filter Element	1
7	1373551	Filter Element (Standard)	1
7	1373554	Label	1
8	1373553	Filter Element	1
8	252792	Filter Element (Safety)	1
8	1373555	Label	1
9	141276	Boot	1
10	141331	Cap	1

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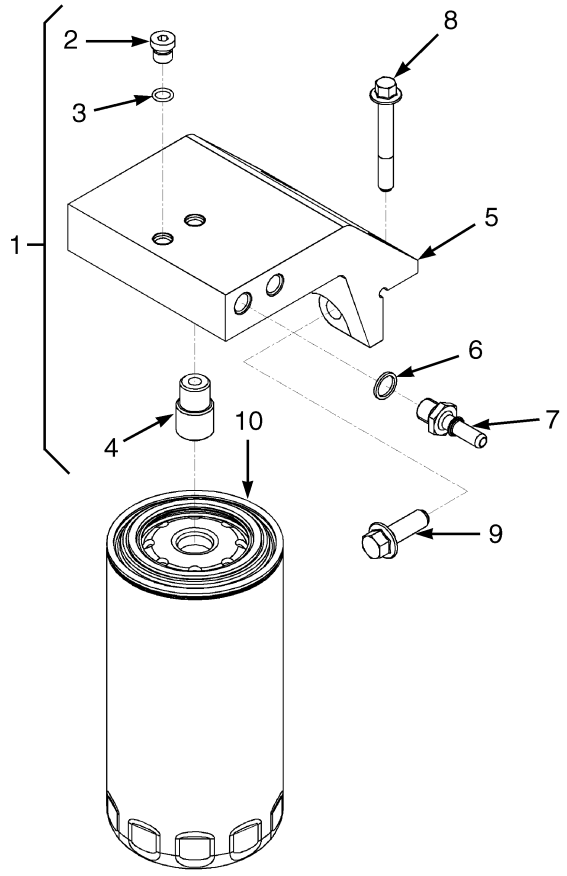
FUEL FILTER (FIGURE 3-7)
TIER III ENGINE



HP091336

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1635413~~		
	1702310	Filter Head Assembly	1
2	1517010	Plug	2
3	1517011	O-Ring	1
4	1635376	Adapter	1
5	1702311	Filter Head	1
6	1635355	Sealing Ring	2
7	1635351	Capscrew	2
8	1543421	Capscrew	2
9	1511977	Capscrew	2
10	4024348	Fuel Filter	1

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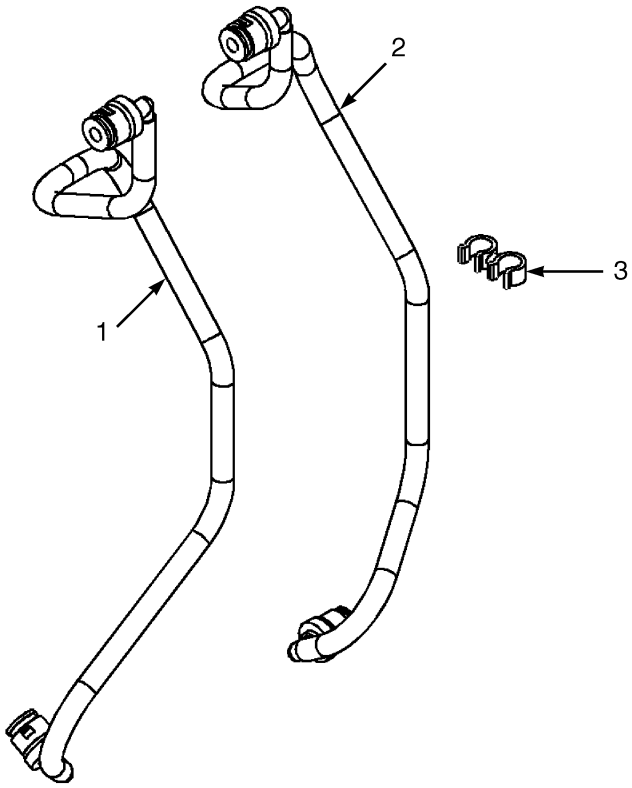
FUEL FILTER PLUMBING (FIGURE 3-8)
TIER III ENGINE



HP091337

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	. . . . .	Fuel Supply Tube	1
2	. . . . .	Fuel Supply Tube	1
3	1635381	Clip	1

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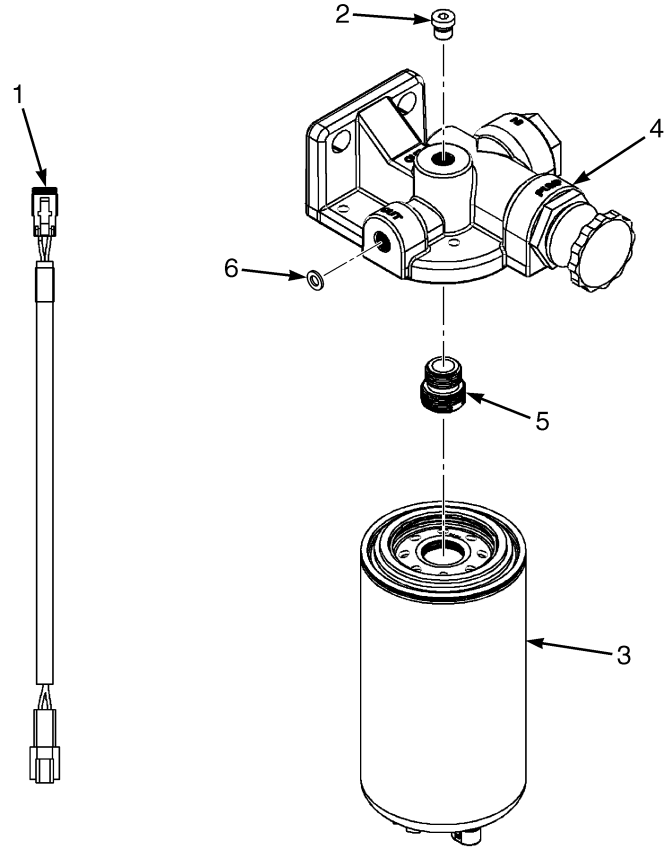
FUEL SYSTEM ACCESSORIES (FIGURE 3-9)

TIER III ENGINE



HP091468

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1703492	Wire Harness	1
2	1661144	Plug	1
3	1635454	Fuel Filter Assy (Water Separator)	1
3	~~4123939~~		
	1635303	Fuel Filter (Includes Water-In-Fuel Sensor)	1
4	1635424	Filter Head (With Priming/Lift Pump)	1
5	1635312	Adapter	1
6	1644166	Sealing Ring	1

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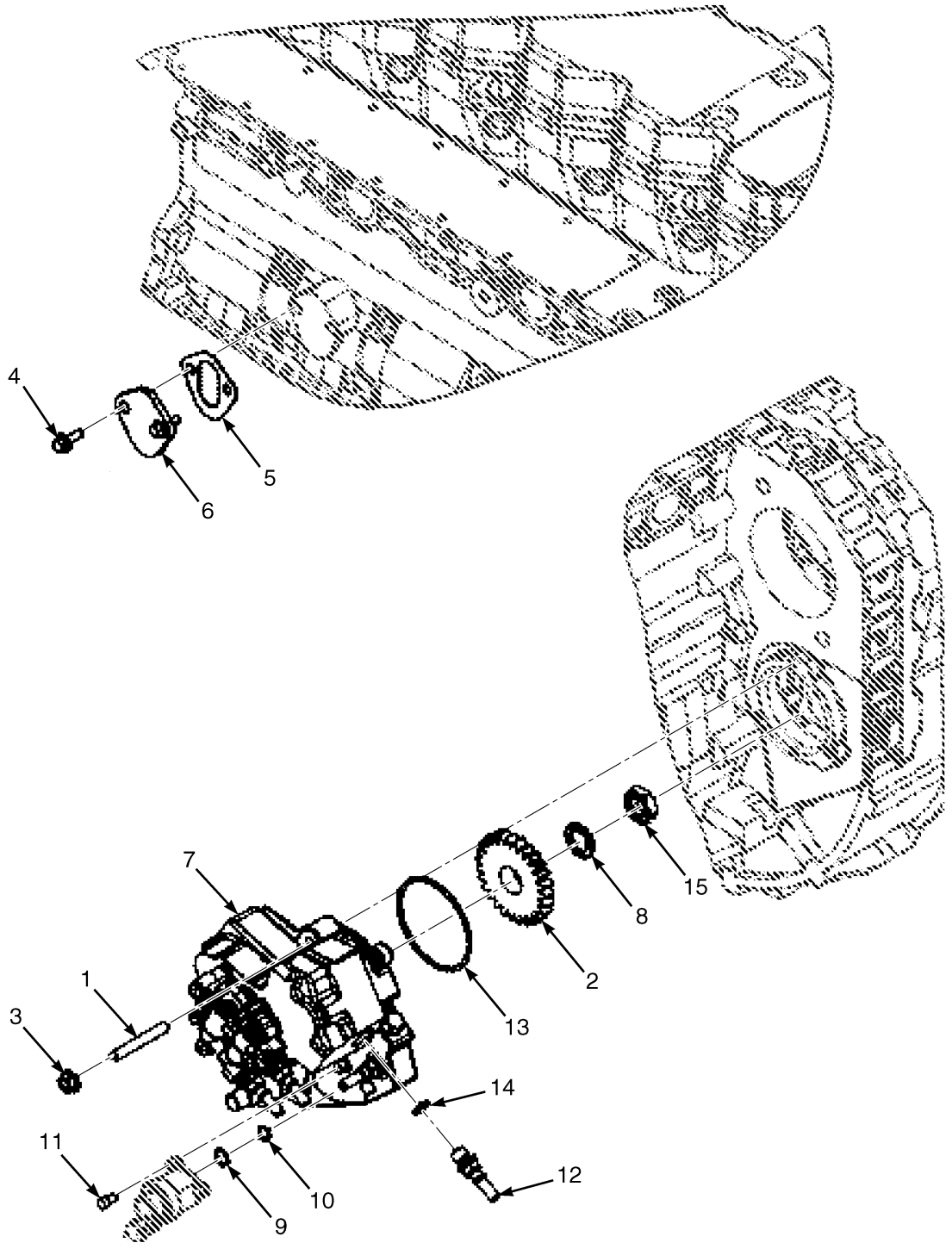
FUEL INJECTION PUMP (FIGURE 3-10)
TIER III ENGINE



BP090689

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FUEL INJECTION PUMP
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635267	Stud	3
2	1635276	Gear	1
3	1513712	Nut	3
4	1512004	Capscrew	2
5	~~1517111~~		
	1513743	Gasket (Cover Plate)	1
6	1517110	Cover Plate	1
7	4027156	Fuel Pump Assembly	1
7	4145920	Regulator Valve	1
8	4033332	Spring Washer	1
9	4104353	Seal	1
10	4104354	Seal	1
11	4104355	Capscrew	3
12	1635311	Connector (Quick Disconnect)	4
13	1635222	O-Ring	1
14	1635355	Sealing Ring	4
15	1635348	Nut	1

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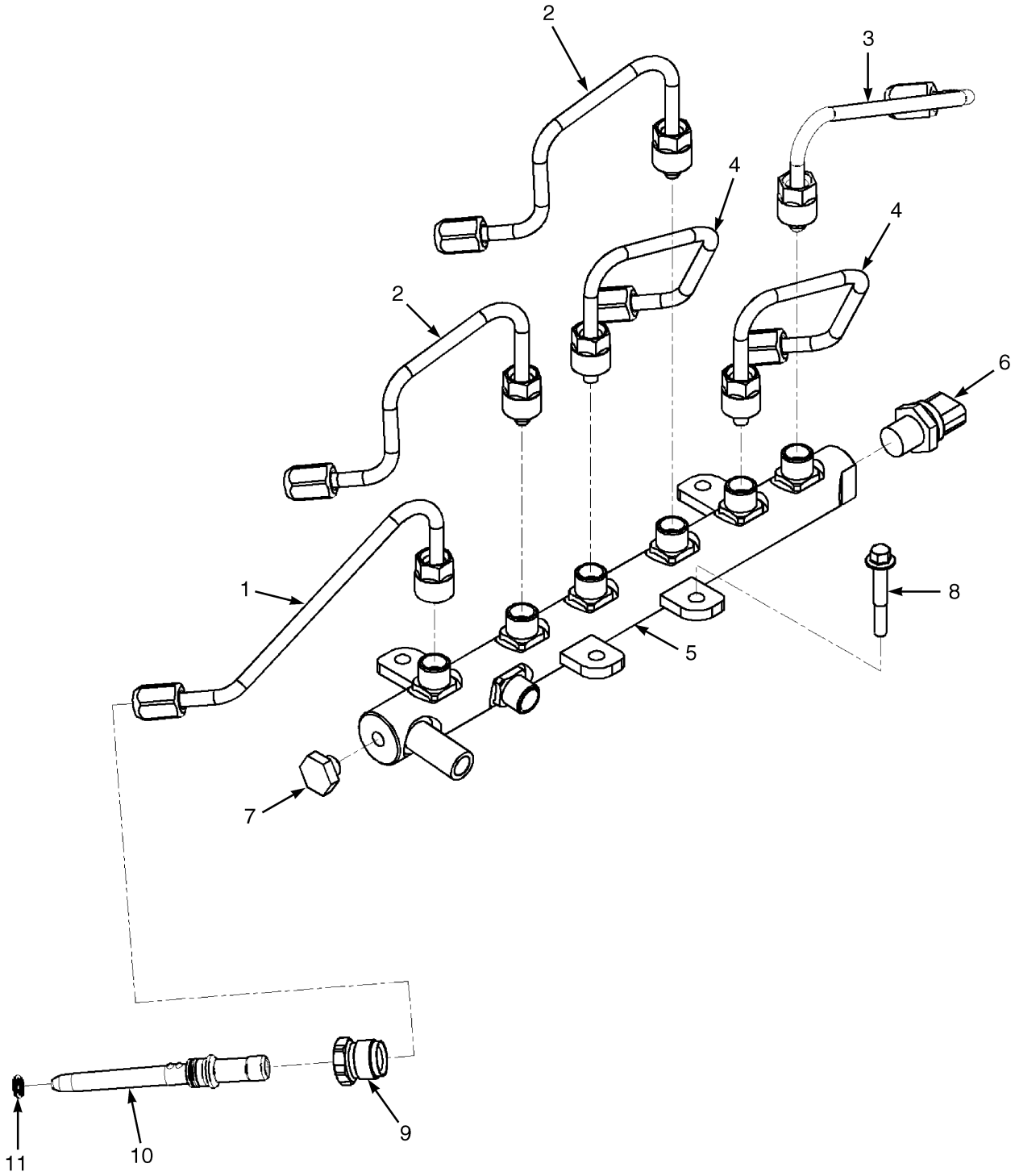
FUEL INJECTOR PLUMBING (FIGURE 3-11)
TIER III ENGINE



HP091344

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FUEL INJECTOR PLUMBING
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1635332	Tube Assy (Fuel Supply)	1
2	1635333	Tube Assy (Fuel Supply)	2
3	1635335	Tube Assy (Fuel Supply)	1
4	1635334	Tube Assy (Fuel Supply)	2
5	1635327	Manifold Assembly	1
6	1635304	Sensor	1
7	1635305	Relief Valve	1
8	1512494	Screw	4
9	~~1635264~~		
	4023965	Retainer	6
10	~~1661292~~		
	4033233	Connector Assembly (Includes Seal)	1
11	1637934	O-Ring	1

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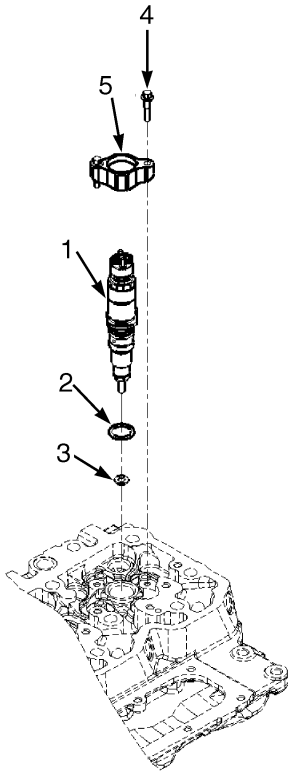
FUEL INJECTORS (FIGURE 3-12)
TIER III ENGINE



HP091354

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	4018919	Injector	6
2	1662311	O-Ring	1
3	1662312	Seal	1
4	1513791	Screw	12
5	1635317	Clamp	6

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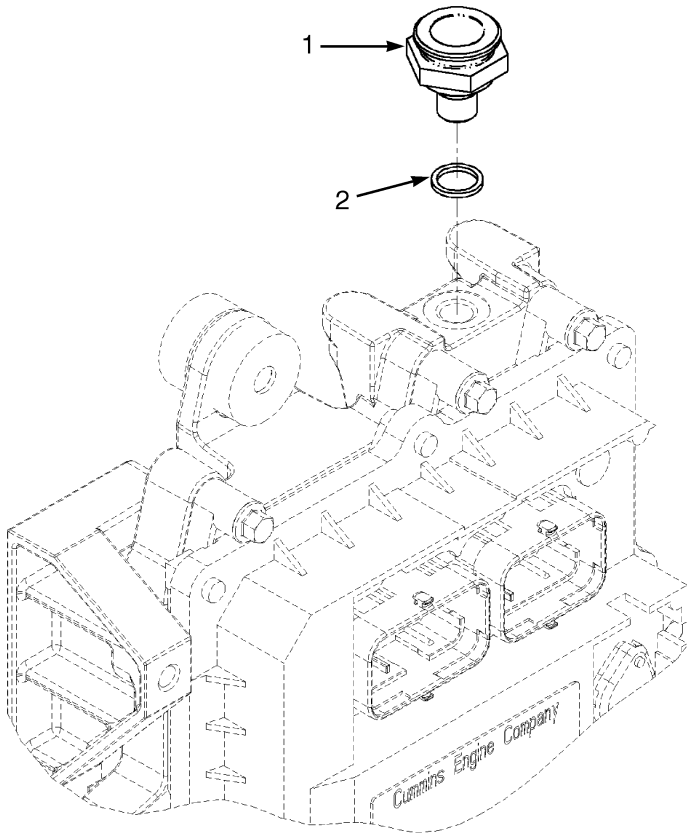
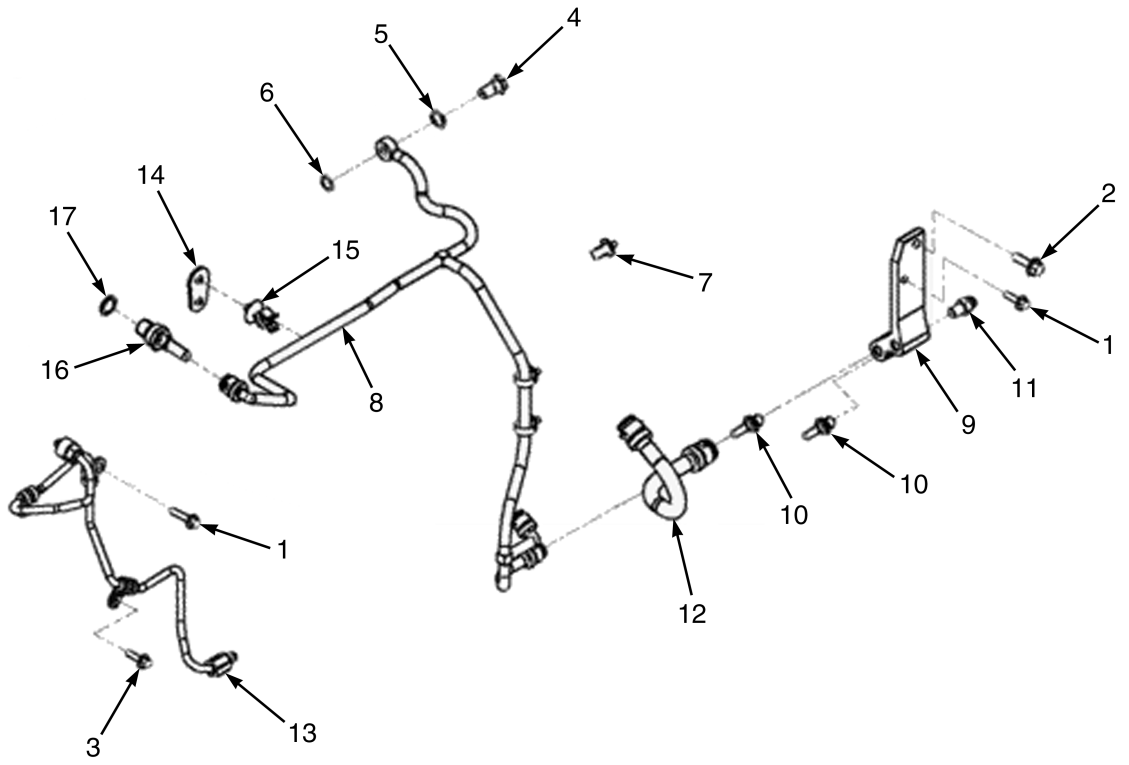
FUEL INLET FITTING (FIGURE 3-13)
TIER III ENGINE



HP091339

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	~~1635364~~		
	4103915	Connector	1
2	1635355	Sealing Ring	1

FUEL PLUMBING (FIGURE 3-14)
TIER III ENGINE



HP091373

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FUEL PLUMBING
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1511970	Capscrew	3
2	1512005	Capscrew	1
3	1511977	Capscrew	1
4	1635279	Check Valve	1
5	1543359	Sealing Ring	1
6	1511998	Sealing Ring	1
7	1635384	Clip	4
8	~~1702096~~		
	4179666	Tube	1
9	~~1635393~~		
	1702097	Adapter Assembly	1
9	. . . . .	Adapter	1
10	1635399	Connector (Quick Disconnect)	2
11	1635365	Connector (Quick Disconnect)	1
12	1635394	Tube Assy	1
13	1635410	Tube Assy	1
14	~~1635326~~		
	1702098	Brace Assembly	1
14	. . . . .	Brace	1
15	1702100	Clip	1
16	4009252	Connector	1
17	1635355	Sealing Ring	1

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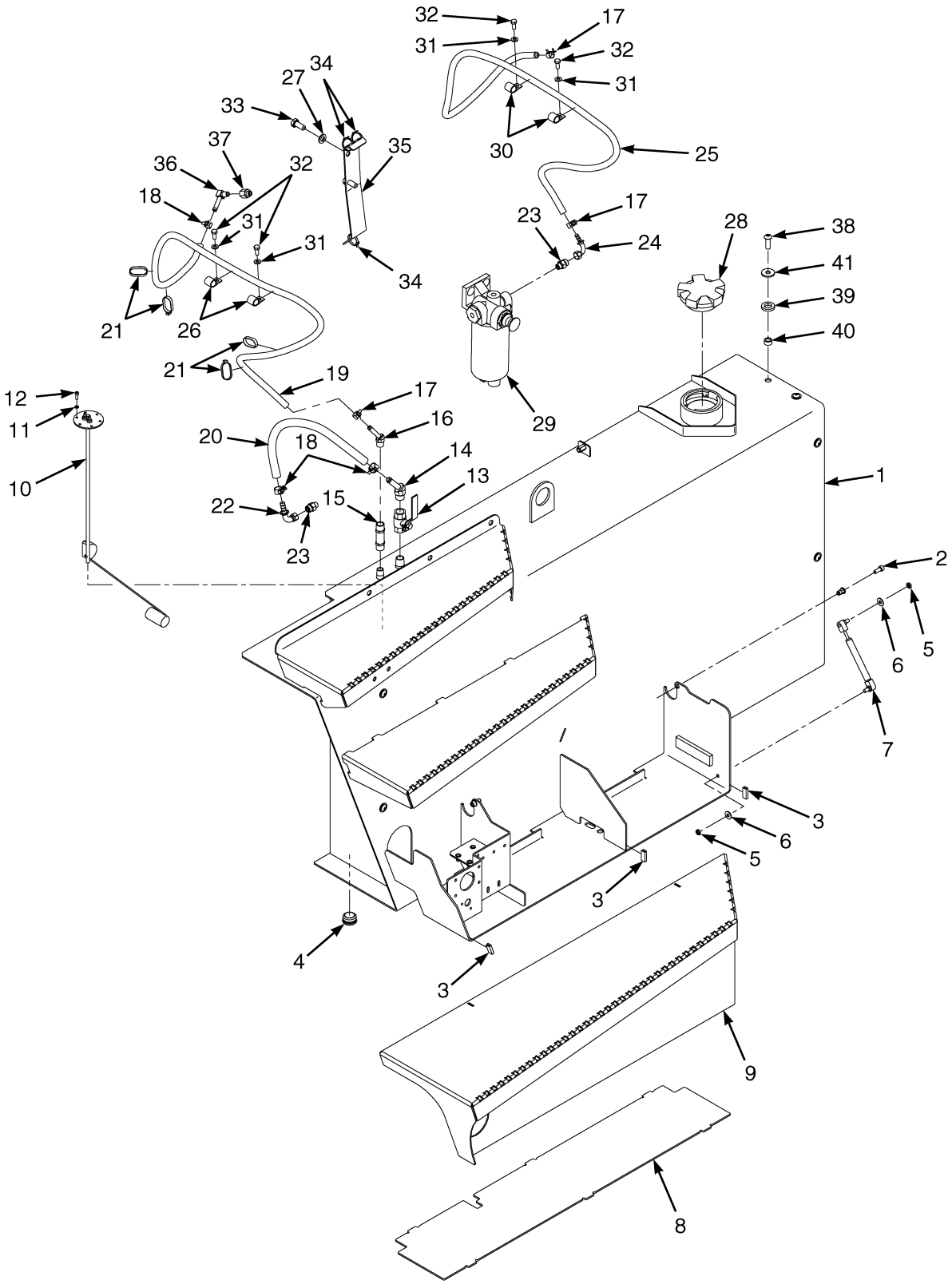
FUEL TANK (FIGURE 3-15)
TIER III ENGINE



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FUEL TANK
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	~~4022761~~		
	4063478	Fuel Tank	1
2	1529665	Capscrew	2
3	325980	Trim	3
4	4014228	Drain Plug	1
5	329069	Nut	2
6	320158	Washer	2
7	1532341	Gas Spring	1
8	1611156	Cover (Battery Box)	1
9	1608997	Step	1
10	**a** 1676875	Fuel Sender (Shown)	1
10	**b** ~~4114013~~		
	4104983	Fuel Sender	1
11	320155	Washer	6
12	293743	Capscrew	6
13	1384669	Shutoff Valve	1
14	17177	Fitting	1
15	1628436	Check Valve	1
16	1359667	Fitting	1
17	1569616	Hose Clamp	2
18	1502006	Hose Clamp	4
19	1642007	Hose	1
20	1367370	Hose	1
21	129563	Strap Clamp	4
22	17194	Fitting	2
23	1547766	Adapter , Male (Fuel Filter Head)	4
24	109417	Fitting	1
25	1389525	Hose	1
26	173247	Clamp	2
27	320161	Washer	2
28	~~1569867~~		
	4099112	Fuel Cap (Non-Locking)	1
28	~~1569866~~		
	4099111	Fuel Cap (Locking)	1
29	1635454	Fuel Filter Assy (Water Separator)	1
29	~~4123939~~		
	1635303	Fuel Filter (Includes Water-In-Fuel Sensor)	1
29	1635424	Filter Head (With Priming/Lift Pump)	1
29	1635312	Adapter	1
29	1702095	Gasket	1
30	128408	Clamp	2
31	320157	Washer	4
32	136681	Capscrew	4
33	292527	Capscrew	2
34	137852	Strap Clamp	3
35	1673490	Plate	1
36	16694	Fitting	1
37	12855	Fitting	1
38	1597444	Capscrew	8
39	4001860	Washer , Rubber	8

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FUEL TANK
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
40	4001858	Spacer	8
41	4001859	Washer	8

FOOTNOTES:

a → 11/2014

b 11/2014 →

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NOTES

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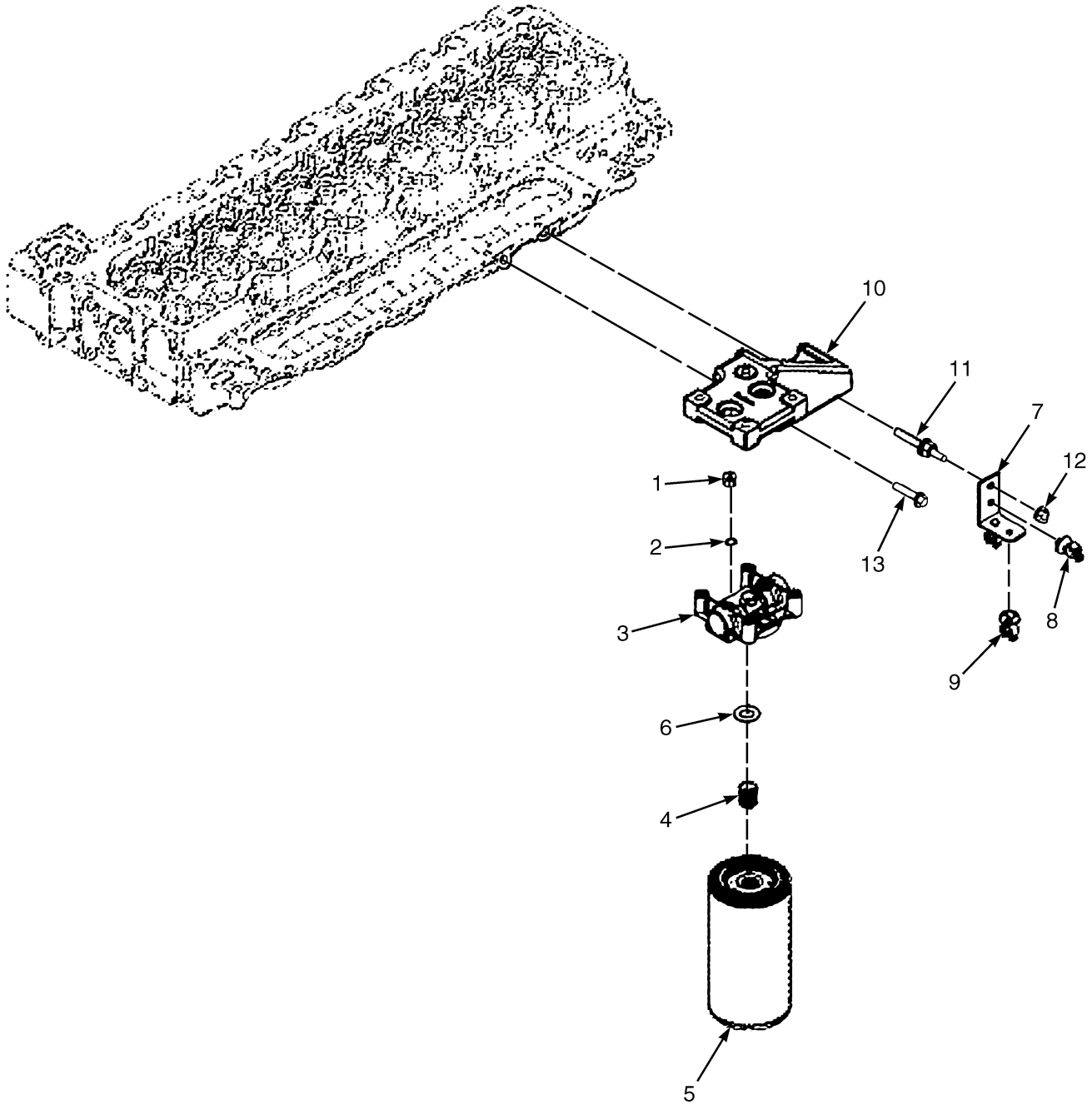
FUEL FILTER (FIGURE 3-16)

TIER IV INTERIM ENGINE (S/N B236E01709M →)



HP130462

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FUEL FILTER

TIER IV INTERIM ENGINE (S/N B236E01709M →)

ITEM	PART NO.	DESCRIPTION	QTY
	4009427	Engine Assy (Tier IV Interim Engine)	1
	4033299	Fuel Filter Assembly	1
1	1517010	Plug	2
2	. . . . .	O-Ring	2
3	1694952	Filter Head	1
4	1637819	Adapter	1
5	4033253	Fuel Filter (Main Filter)	1
6	. . . . .	Seal	1
7	~~4033278~~		
	4104346	Brace Assembly	1
8	. . . . .	Clip	1
9	. . . . .	Clip	2
10	4033365	Support	1
11	1644120	Capscrew	1
12	1513712	Nut	1
13	. . . . .	Capscrew	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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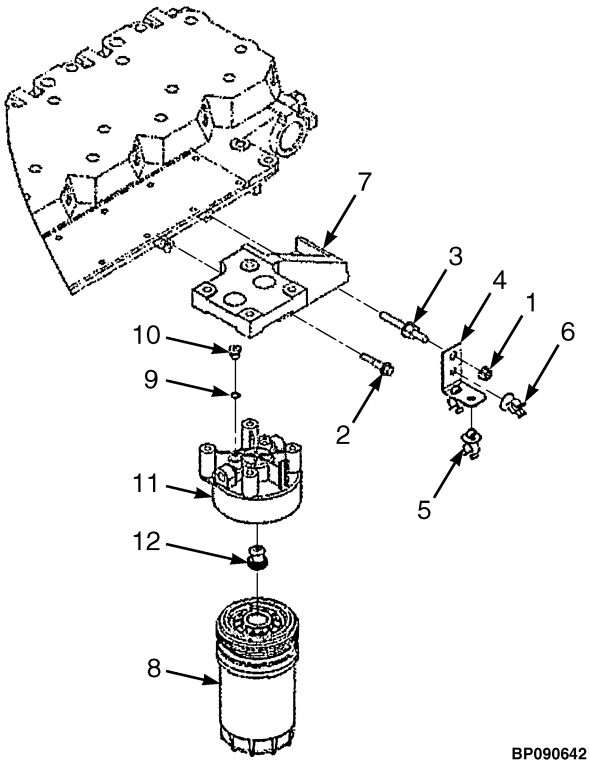
FUEL FILTER (FIGURE 3-17)

TIER IV INTERIM ENGINE (S/N B236E01710M →)



ITEM	PART NO.	DESCRIPTION	QTY
	4082110	Engine Assy (2013) (Service with Short Block Kit 4135331)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1513712	Nut	1
2	. . . . .	Screw	1
3	4036443	Capscrew	1
4	~~4033278~~		
	4104346	Brace Assembly	1
5	. . . . .	Clip	2
6	. . . . .	Clip	1
7	4033365	Support	1
8	4104344	Fuel Filter Head and Filter Assembly	1
8	~~4104345~~		
	4103452	Fuel Filter	1
9	. . . . .	Seal	2
10	1517010	Plug	2
11	. . . . .	Filter Head	1
12	~~4104343~~		
	4056513	Screen	1

NOTE: Refer to plate on engine to determine engine assembly part number.

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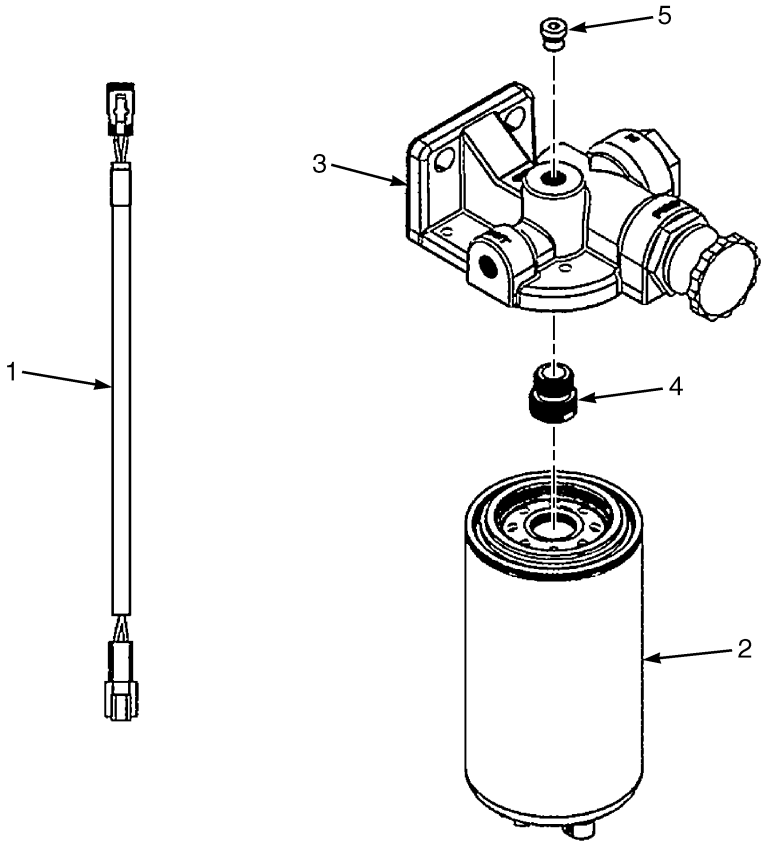
FUEL FILTER WITH WATER SEPARATOR (FIGURE 3-18)

TIER IV INTERIM ENGINE



HP130464

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1703492	Wire Harness	1
2	4033281	Fuel Filter	1
2	4033254	Fuel Filter (With Water Separator)	1
3	4033282	Filter Head	1
4	. . . . .	Adapter (Filter Head)	1
5	4033225	Plug	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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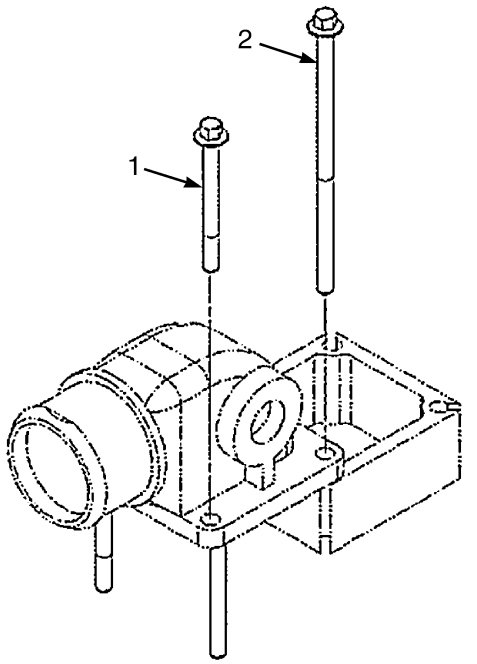
FUEL FILTER MOUNTING (FIGURE 3-19)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1565007	Capscrew	1
2	1512111	Capscrew	4

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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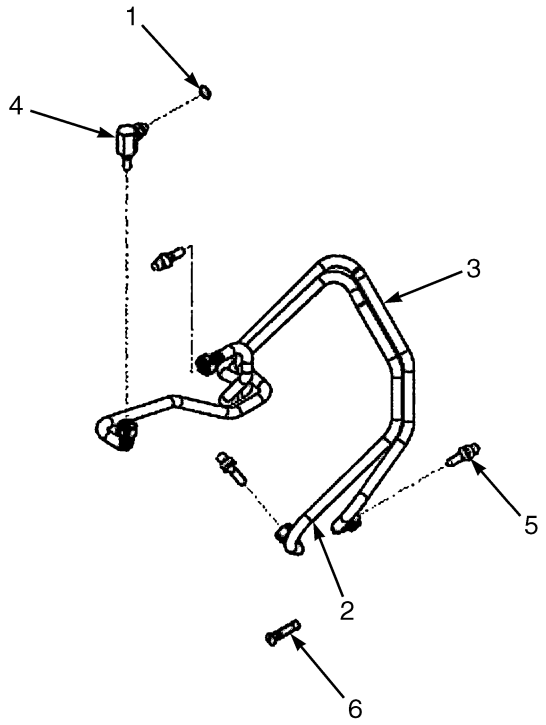
FUEL FILTER PLUMBING (FIGURE 3-20)

TIER IV INTERIM ENGINE



HP091585

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1644166	Sealing Ring	4
2	4112787	Tube , Fuel Supply	1
3	4112786	Tube , Fuel Supply	1
4	4033264	Connector	1
5	. . . . .	Connector	2
6	~~4033266~~		
	4104313	Clamp	1

FOOTNOTES:

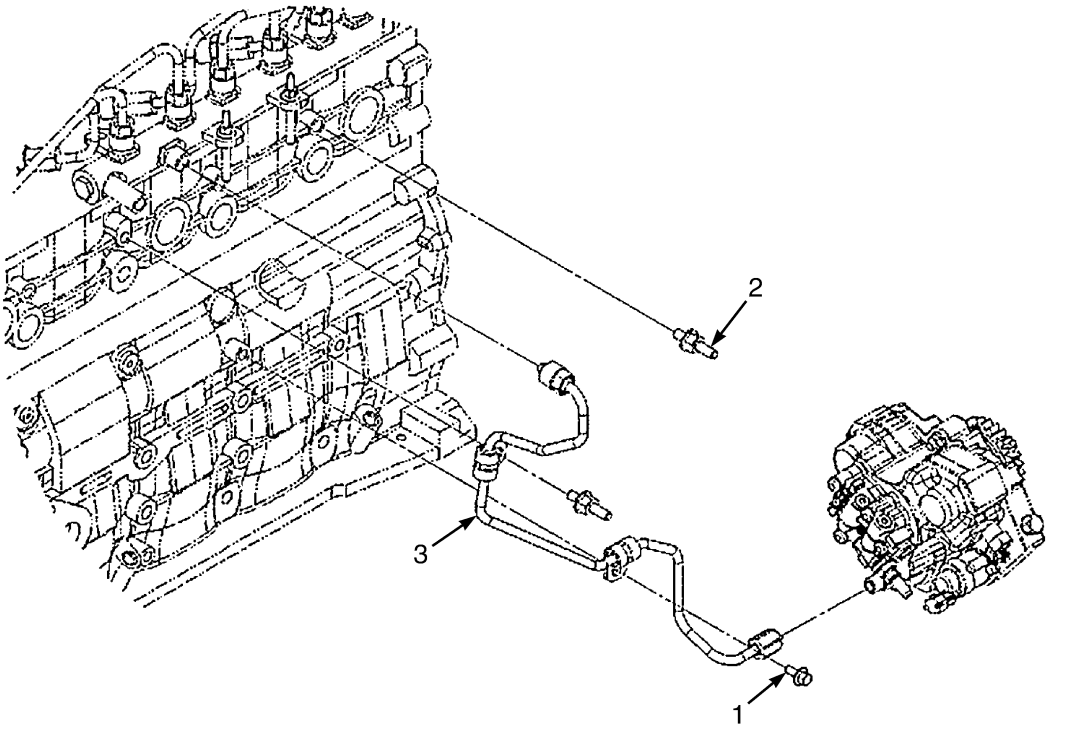
a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

FUEL SUPPLY PLUMBING (FIGURE 3-21)

TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	4033232	Capscrew	1
2	. . . . .	Capscrew	2
3	4033274	Tube	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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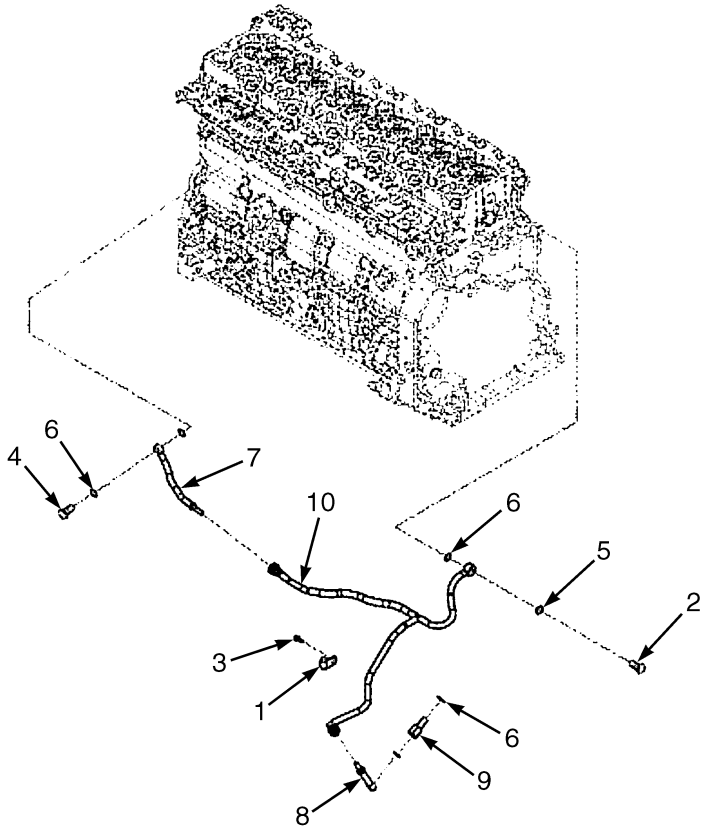
FUEL DRAIN PLUMBING (FIGURE 3-22)

TIER IV INTERIM ENGINE



HP091586

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1587586	Clip	1
2	. . . . .	Banjo Screw	1
3	1512051	Capscrew	1
4	1635279	Check Valve	1
5	1584546	Sealing Ring	1
5	1511998	Sealing Ring (2014 Alternate Part)	1
6	1644166	Sealing Ring	5
7	. . . . .	Fuel Drain Tube	1
8	. . . . .	Fuel Drain Tube	1
9	. . . . .	Banjo Screw	1
10	. . . . .	Fuel Drain Tube	1

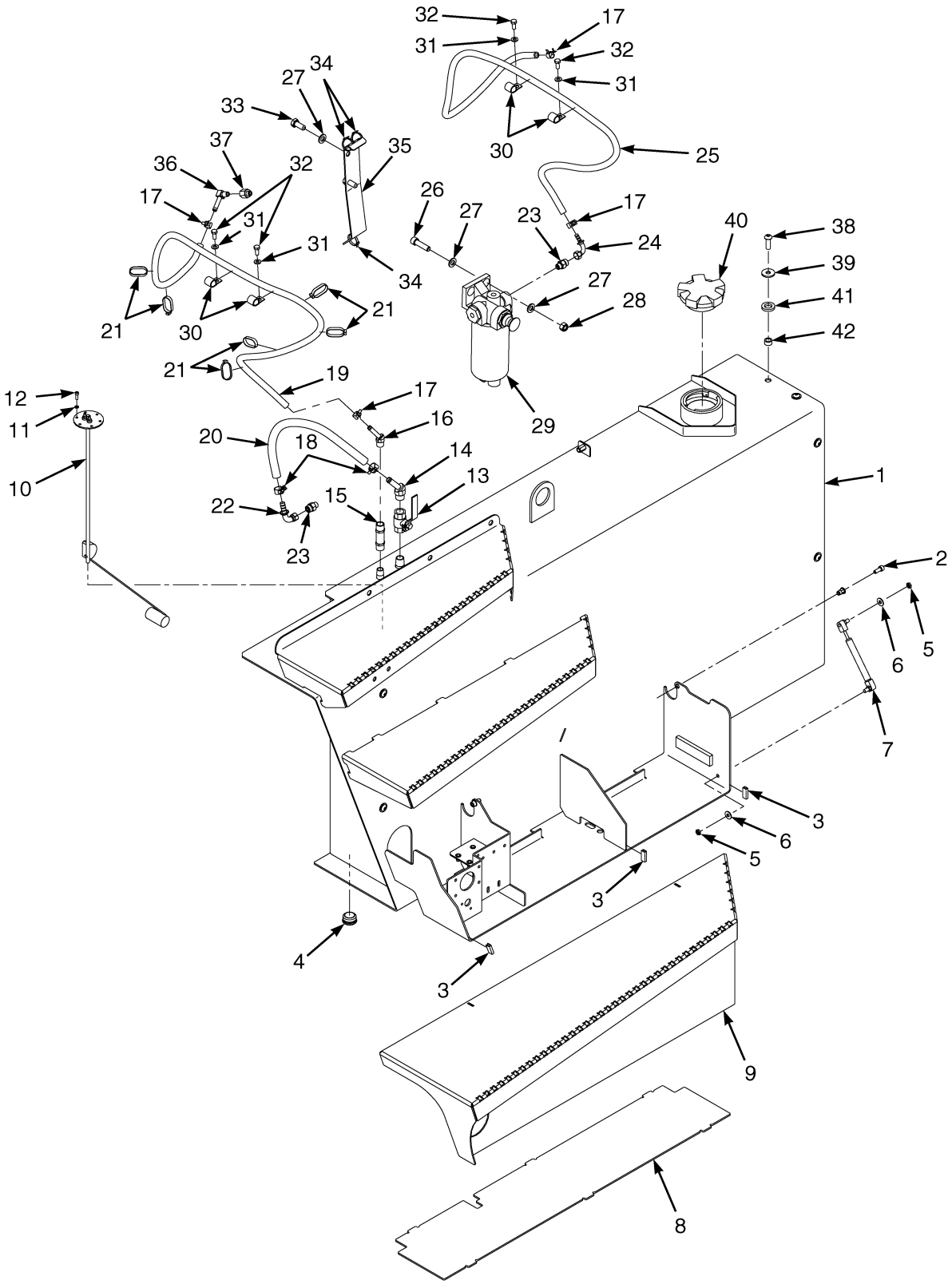
FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

FUEL TANK (FIGURE 3-23)
TIER IV INTERIM ENGINE



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FUEL TANK
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	~~4022761~~		
	4063478	Fuel Tank	1
2	1529665	Capscrew	2
3	325980	Trim	3
4	4014228	Drain Plug	1
5	329069	Nut	2
6	320158	Washer	2
7	1532341	Gas Spring	1
8	1611156	Cover (Battery Box)	1
9	1608997	Step	1
10	**a** 1676875	Fuel Sender (Shown)	1
10	**b** ~~4114013~~		
	4104983	Fuel Sender	1
11	320155	Washer	6
12	293743	Capscrew	6
13	1384669	Shutoff Valve	1
14	17177	Fitting	1
15	1628436	Check Valve	1
16	1359667	Fitting	1
17	1569616	Hose Clamp	4
18	1502006	Hose Clamp	2
19	4015086	Hose	1
20	1686731	Hose	1
21	129563	Strap Clamp	6
22	4024969	Fitting	1
23	1611349	Fitting	2
24	4024968	Fitting	1
25	1567506	Hose	1
26	296044	Capscrew	2
27	320161	Washer	6
28	302402	Locknut	2
29	1635454	Fuel Filter Assy (Water Separator)	1
29	~~4123939~~		
	1635303	Fuel Filter (Includes Water-In-Fuel Sensor)	1
29	1635424	Filter Head (With Priming/Lift Pump)	1
29	1635312	Adapter	1
29	1702095	Gasket	1
30	128408	Clamp	4
31	320157	Washer	4
32	136681	Capscrew	4
33	292527	Capscrew	2
34	137852	Strap Clamp	3
35	1673490	Plate	1
36	17353	Fitting	1
37	1547766	Adapter , Male (Fuel Filter Head)	1
38	1597444	Capscrew	8
39	4001859	Washer	8
40	~~1569867~~		
	4099112	Fuel Cap (Non-Locking)	1
40	~~1569866~~	Fuel Cap (Locking)	1

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FUEL TANK
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4099111		
41	4001860	Washer , Rubber	8
42	4001858	Spacer	8

FOOTNOTES:

a → 11/2014

b 11/2014 →

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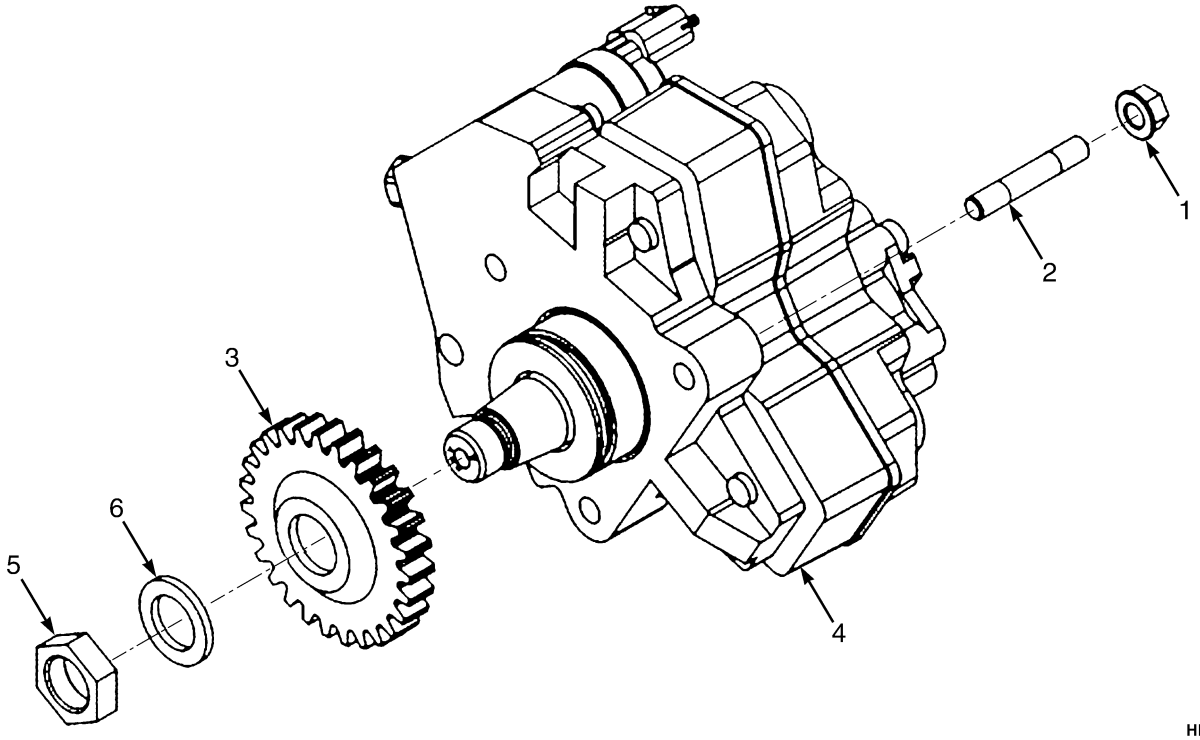
FUEL PUMP (FIGURE 3-24)
TIER IV INTERIM ENGINE



HP130463

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1513712	Nut	3
2	1635267	Stud	3
3	1635276	Gear	1
4	~~4112789~~		
	4036572	Fuel Pump (Recon)	1
5	1635348	Nut	1
6	4033332	Spring Washer	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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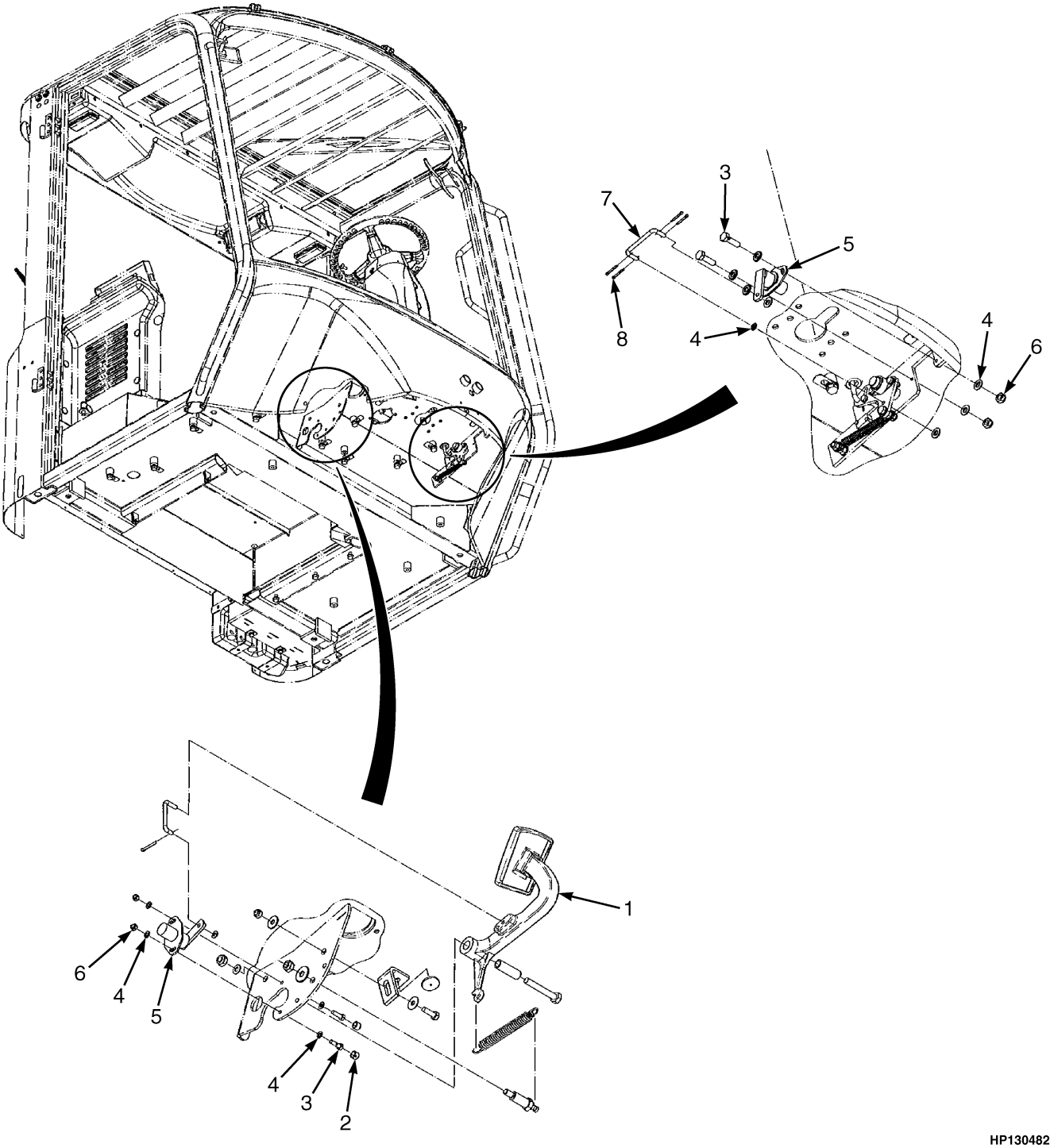
THROTTLE AND INCHING SENSORS (FIGURE 3-25)



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THROTTLE AND INCHING SENSORS

ITEM	PART NO.	DESCRIPTION	QTY
1	. . . . .	Pedal Linkage (☞Figure 3-3, ☞Figure 3-1)	1
2	1493397	Cover (Capscrew Head)	2
3	292501	Capscrew	4
4	320156	Washer	16
5	2076661	Sensor , Throttle and Inching	2
6	316834	Nut	4
7	1571269	Rod	1
8	15200	Cotter Pin	4

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NOTES

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4 ELECTRICAL SYSTEM

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ELECTRICAL SYSTEM

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STEERING COLUMN - TIER III ENGINE 4-148
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WIF EXTENSION 4-157
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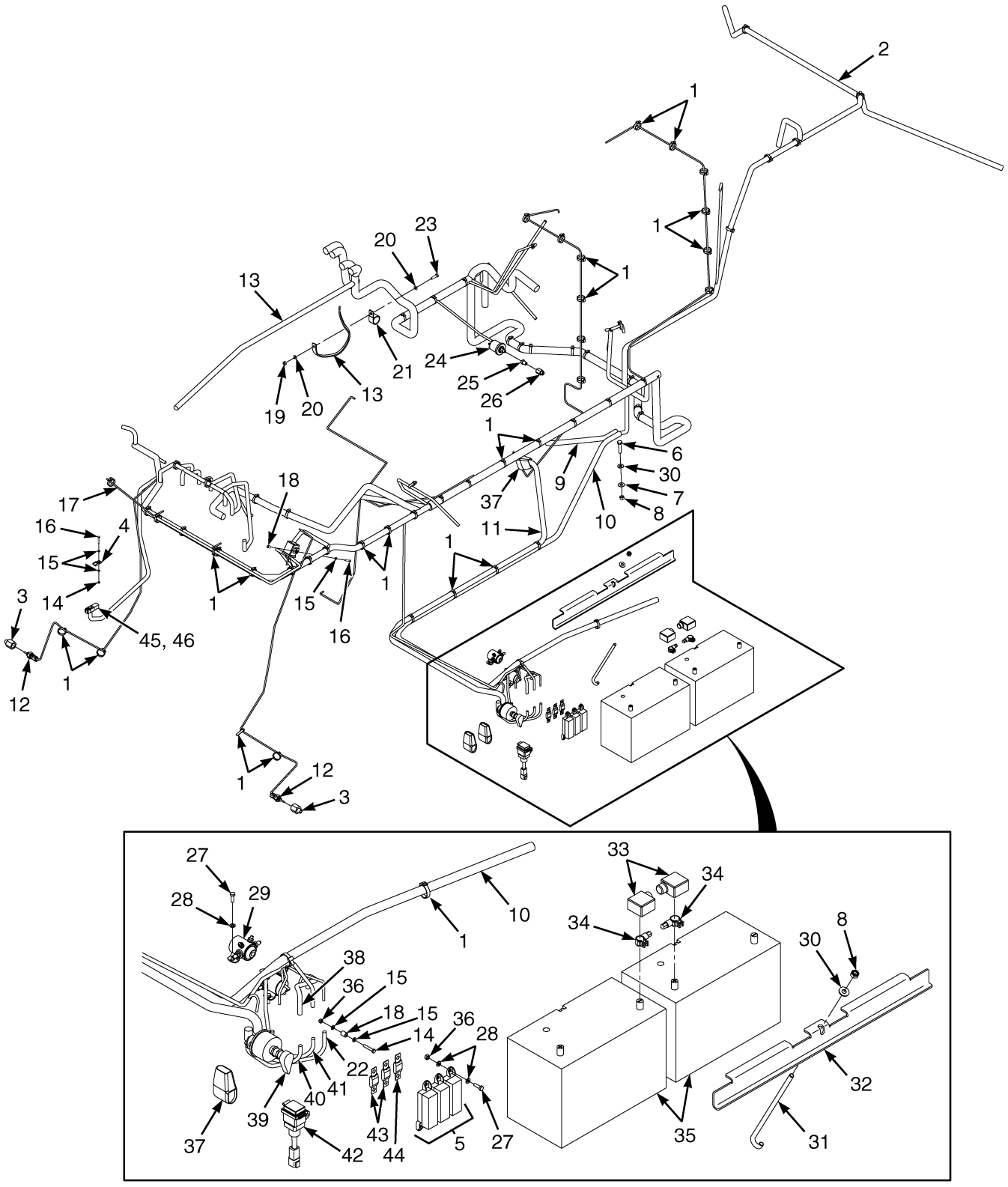
ELECTRICAL SYSTEM (FIGURE 4-1)
TIER III ENGINE



HP082137

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ELECTRICAL SYSTEM
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	129563	Strap Clamp	67
2	1607461	Wire Harness (Rear) (☞Figure 4-73)	1
3	12858	Fitting	2
4	1500912	Clip	1
5	1617615	Fuse Holder	3
6	292517	Capscrew	1
7	296407	Lockwasher	1
8	302401	Locknut	2
9	1644865	Battery Cable	1
9	148795	Terminal	2
9	117970	Battery Cable	AR
9	275498	Conduit	AR
10	1644867	Battery Cable	1
10	148789	Terminal	1
10	117970	Battery Cable	AR
10	275498	Conduit	AR
10	148795	Terminal	1
11	1644866	Battery Cable	1
11	148795	Terminal	2
11	1357269	Battery Cable	AR
11	275498	Conduit	AR
12	1671513	Switch (Temperature)	2
13	**b** 1700344	Wire Harness (Chassis) (☞Figure 4-32, ☞Figure 4-33)	1
13	**c** 4064555	Wire Harness (Chassis) (☞Figure 4-34, ☞Figure 4-35)	1
13	**d** 4119548	Wire Harness (Chassis) (☞Figure 4-36, ☞Figure 4-37)	1
14	302398	Locknut	2
15	320155	Washer	5
16	2072353	Capscrew	3
17	1677616	Wire Harness (Oil Cooler) (☞Figure 4-72)	1
18	1534793	Spacer	2
19	302400	Nut	1
20	320157	Washer	2
21	144067	Clamp	1
21	147006	Clamp (Alternate Part)	1
22	1627709	Jumper	1
22	806426	E-Ring	1
22	1354497	E-Ring	1
23	176640	Bolt	1
24	1652018	Pressure Sender (Engine Oil)	1
25	16187	Fitting	1
26	1605818	Adapter	1
27	292501	Capscrew	10
28	320156	Washer	17
29	1307121	Switch (Magnetic, 24V)	2
29	4099635	Solenoid (Alternate Part)	1
30	320160	Washer	2
31	1646805	Link	1
32	1607623	Battery Hold Down	1
33	4027500	Boot , Battery Terminal (Red)	2
34	1608761	Battery Cable	1

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ELECTRICAL SYSTEM
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
34	148778	Terminal	1
34	148779	Terminal	1
34	1357269	Battery Cable	AR
34	275498	Conduit	AR
35	1399332	Start Battery Wet	2
36	302399	Nut	7
37	370009	Boot	2
38	1608548	Jumper	1
39	1324517	Switch (Disconnect)	1
40	4002125	Cable Assy	1
40	806426	E-Ring	1
40	1354497	E-Ring	1
40	1627709	Jumper	1
41	4002124	Cable Assy	1
41	806426	E-Ring	1
41	1354497	E-Ring	1
42	~~4016659~~		
	4016657	Fuse Box (☞Figure 4-55)	1
43	1617617	Fuse (125 Amp)	2
44	1617618	Fuse (100 Amp)	1
45	1525589	Connector (6-Pin)	1
46	1493430	Connector (6 Way Housing)	1
	a 4002122	Battery Cable	1
	148792	Terminal	1
	148795	Terminal	1
	321158	Boot	1

FOOTNOTES:

a Not Illustrated
b → S/N B236E01680L
c S/N B236E01681L ↔ 11/2014
d 11/2014 →

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NOTES

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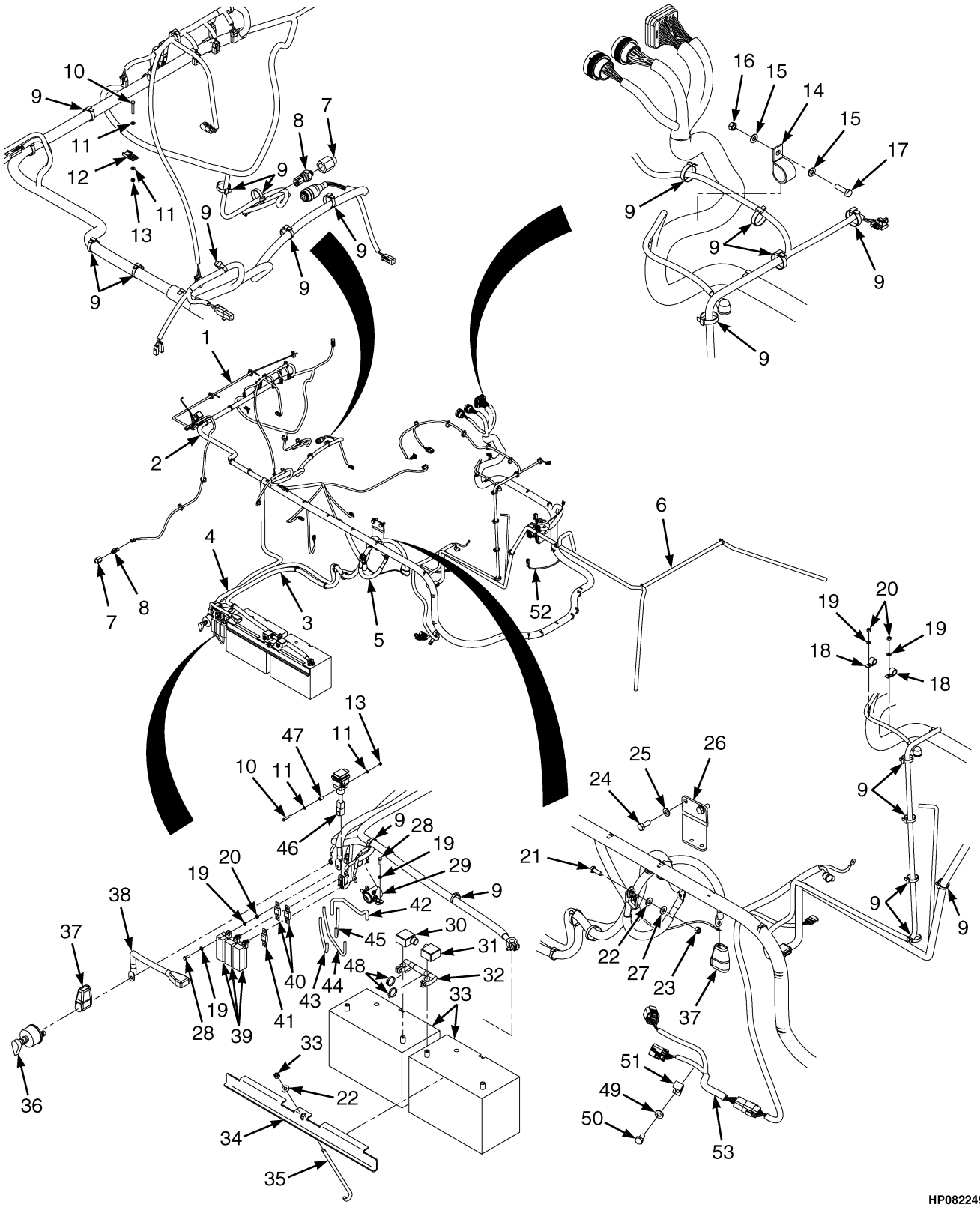
ELECTRICAL SYSTEM (FIGURE 4-2)
TIER IV INTERIM ENGINE



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ELECTRICAL SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1677616	Wire Harness (Oil Cooler) (☞Figure 4-72)	1
2	**a** ~~4019382~~		
	4033769	Wire Harness (Chassis) (☞Figure 4-38, ☞Figure 4-39)	1
2	**b** 4060734	Wire Harness (Chassis) (☞Figure 4-40, ☞Figure 4-41)	1
2	**c** 4119553	Wire Harness (Chassis) (☞Figure 4-42, ☞Figure 4-43)	1
3	4013904	Battery Cable	1
3	4020386	Battery Cable (Alternate Part)	1
4	4013903	Battery Cable	1
5	4013905	Battery Cable	1
6	1607461	Wire Harness (Rear) (☞Figure 4-73)	1
7	12858	Fitting	2
8	1671513	Switch (Temperature)	2
9	129563	Strap Clamp	66
10	2072353	Capscrew	3
11	320155	Washer	5
12	1500912	Clip	1
13	302398	Locknut	2
14	258590	Clamp	1
15	320157	Washer	2
16	302400	Nut	1
17	176640	Bolt	1
18	132972	Clamp	2
19	320156	Washer	17
20	302399	Nut	9
21	292515	Capscrew	1
22	320160	Washer	2
23	302401	Locknut	2
24	292527	Capscrew	2
25	320161	Washer	2
26	4014762	Plate	1
27	296407	Lockwasher	1
28	292501	Capscrew	8
29	1307121	Switch (Magnetic, 24V)	1
29	4099635	Solenoid (Alternate Part)	1
30	257241	Boot	1
30	4027500	Boot , Battery Terminal (Red) (Alternate Part)	1
31	321158	Boot	1
31	4027501	Boot , Battery Terminal (Red) (Alternate Part)	1
32	1608761	Battery Cable	1
32	148779	Terminal	1
32	148778	Terminal	1
32	1595241	Battery Cable (Includes Boots) (Alternate Part)	1
32	148782	Terminal (Alternate Part)	1
32	148775	Terminal (Alternate Part)	1
33	1399332	Start Battery Wet	2
34	1607623	Battery Hold Down	1
35	1646805	Link	1
36	1324517	Switch (Disconnect)	1
37	370009	Boot	2
38	4002122	Battery Cable	1

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ELECTRICAL SYSTEM
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
38	148792	Terminal	1
38	148795	Terminal	1
38	321158	Boot	1
39	1617615	Fuse Holder	3
40	1617617	Fuse (125 Amp)	2
41	1617618	Fuse (100 Amp)	1
42	1608548	Jumper	1
42	806426	E-Ring	2
43	4002124	Cable Assy	1
43	806426	E-Ring	1
43	1354497	E-Ring	1
44	1627709	Jumper	1
44	806426	E-Ring	1
44	1354497	E-Ring	1
45	4002125	Cable Assy	1
45	806426	E-Ring	1
45	1354497	E-Ring	1
46	~~4016659~~		
	4016657	Fuse Box	1
47	1534793	Spacer	2
48	137852	Strap Clamp	2
49	320159	Washer	2
50	292514	Capscrew	2
51	146047	Clamp	2
52	4032868	Wire Harness (WIF Extension) (☞Figure 4-63)	1
53	4035276	Wire Harness (DPF) (☞Figure 4-62)	1

FOOTNOTES:

a → S/N B236E01680L
b S/N B236E01681L ↔ 11/2014
c 11/2014 →

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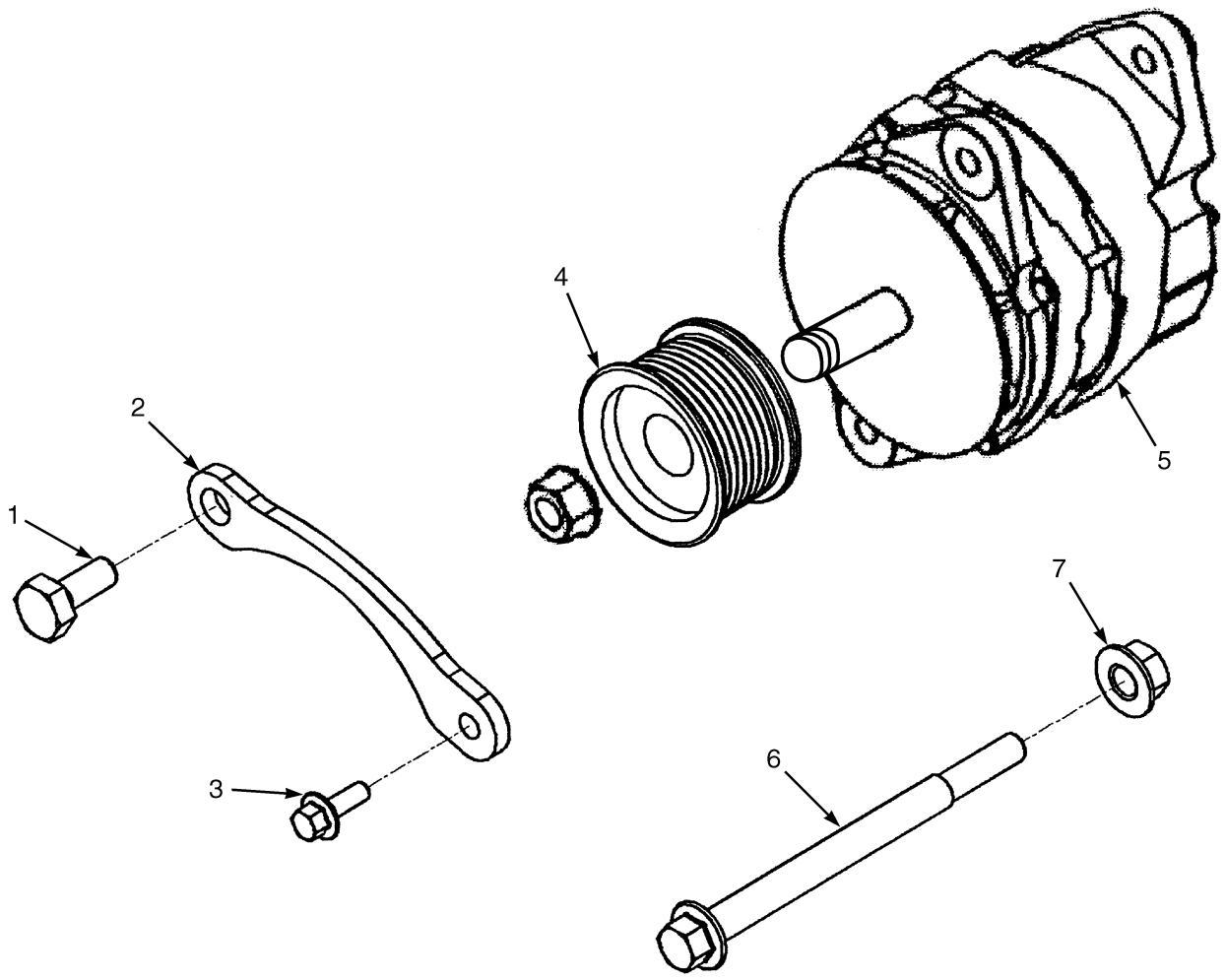
ALTERNATOR AND MOUNTING (FIGURE 4-3)
TIER III ENGINE



HP091366

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512003	Capscrew	1
2	1635404	Brace	1
3	1512005	Capscrew	1
4	1512009	Pulley	1
5	~~1693006~~		
	4020872	Alternator	1
6	1512006	Capscrew	1
7	1511978	Nut	1

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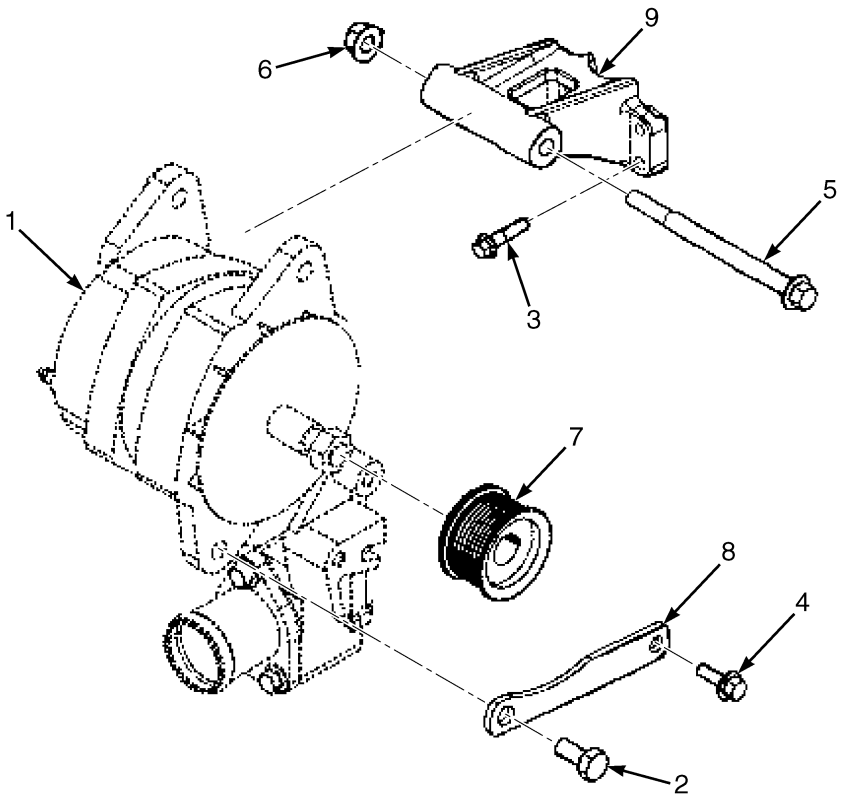
ALTERNATOR AND MOUNTING (FIGURE 4-4)

TIER IV INTERIM ENGINE



HP082217

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	~~1693006~~		
	4020872	Alternator	1
2	1512003	Capscrew	1
3	1512033	Capscrew	4
4	1512503	Capscrew	1
5	1512006	Capscrew	1
6	1511978	Nut	1
7	~~1588068~~		
	4012350	Pulley (Alternator)	1
8	1521828	Brace	1
9	4033235	Support	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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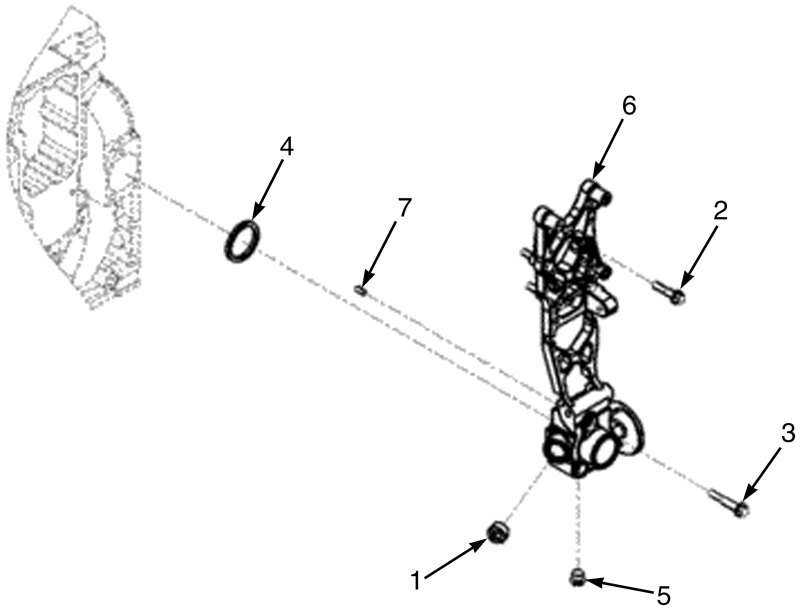
ALTERNATOR SUPPORT AND WATER INLET (FIGURE 4-5)

TIER III ENGINE



HP091253

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1512292	Plug	1
2	1702189	Capscrew	2
3	1515840	Screw	5
4	1512305	O-Ring	1
5	1661398	Plug	1
6	~~1635403~~		
	4048000	Water Inlet	1
7	1632983	Dowel	1

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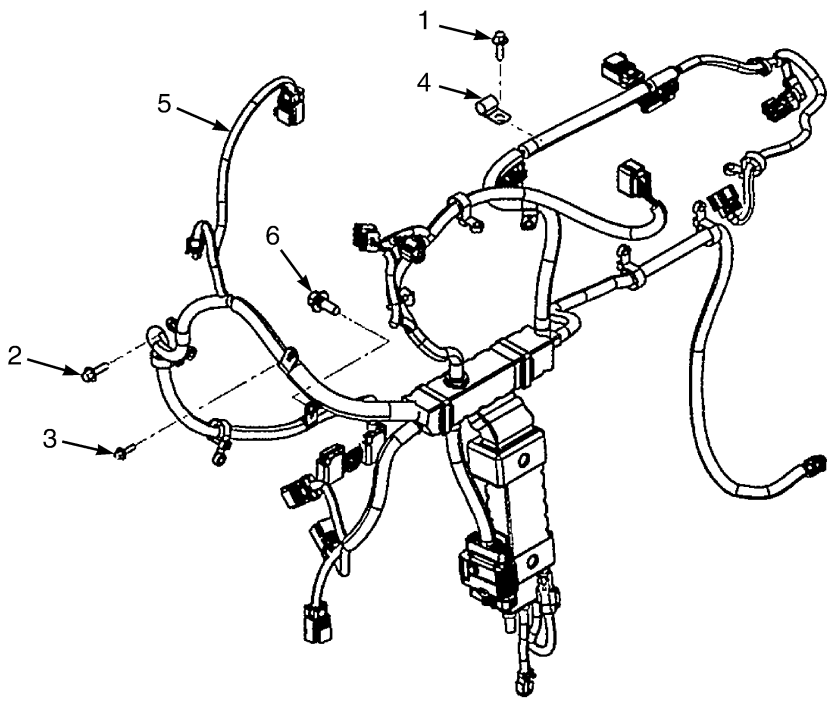
ECM MODULE WIRING (FIGURE 4-6)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1517266	Capscrew	1
2	1512005	Capscrew	1
3	1513792	Capscrew	1
4	1614532	Clip	1
5	~~4043619~~		
	4054895	Wire Harness	1
6	1512418	Capscrew	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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NOTES

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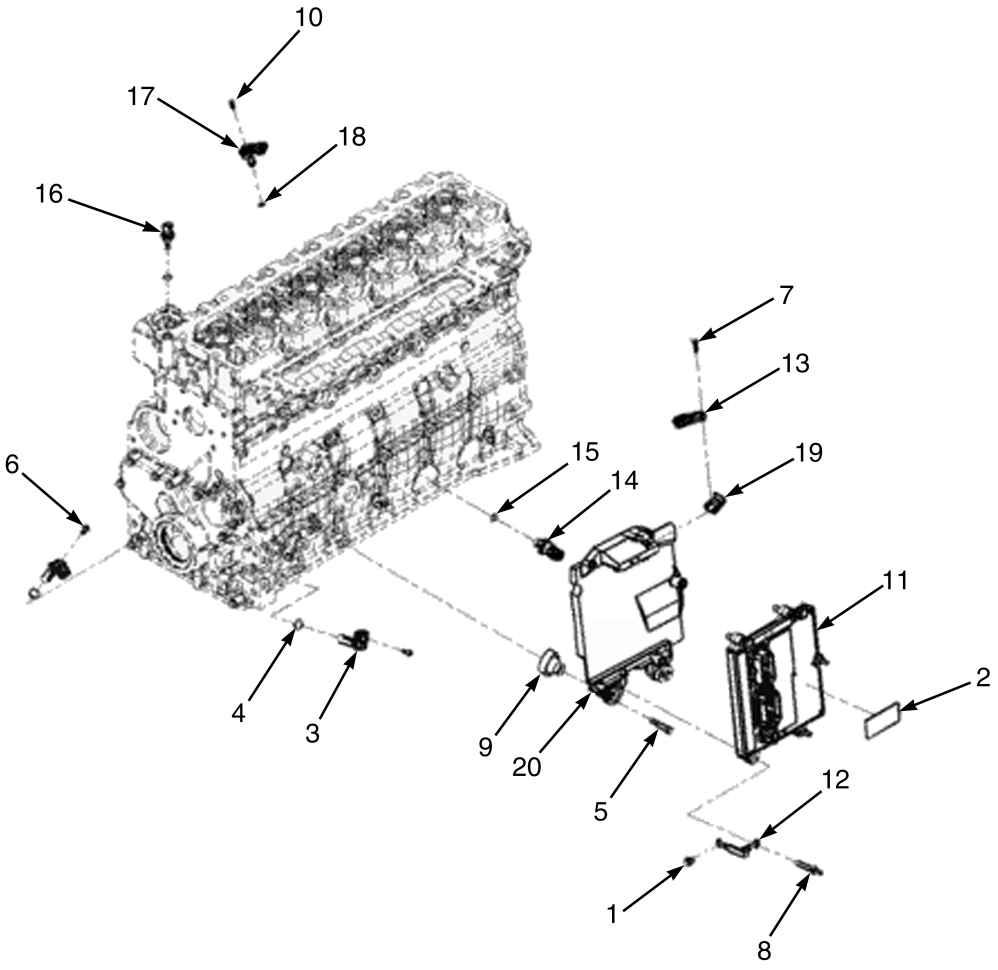
ENGINE CONTROL MODULE (FIGURE 4-7)
TIER III ENGINE



HP091255

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ENGINE CONTROL MODULE
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1517266	Capscrew	1
2	. . . . .	Dataplate	1
3	1635457	Sensor Assembly (Camshaft Position)	2
4	1635342	O-Ring	1
5	1512111	Capscrew	6
6	1543437	Capscrew	2
7	1514504	Capscrew	1
8	~~1635422~~		
	4086128	Capscrew	4
9	4009315	Isolator	3
10	1635280	Capscrew	1
11	1635421	Electronic Control Module	1
12	1635325	Wire	1
13	1635345	Sensor (Barometric or Ambient Air Pressure)	1
14	1543439	Switch, Oil Pressure	1
15	~~1517116~~		
	1543435	O-Ring	1
16	~~1565040~~		
	1691873	Sensor Assembly (Temperature)	1
16	~~1517116~~		
	1543435	O-Ring	1
17	~~1661205~~		
	4123350	Sensor , MAP (Intake Manifold Pressure)	1
18	. . . . .	O-Ring	1
19	. . . . .	Clip	1
20	4009316	Bracket (ETR Control Module)	1

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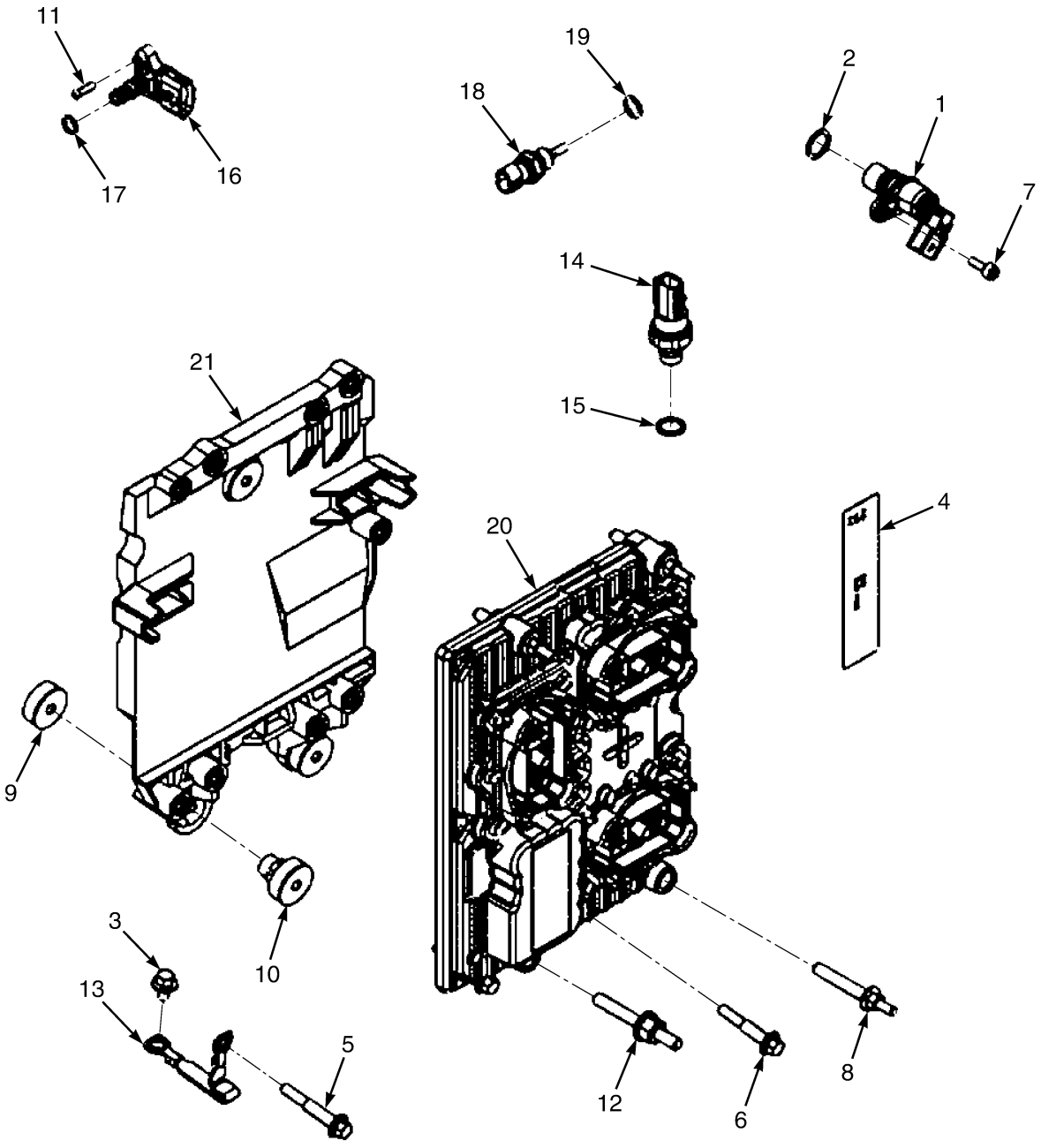
ENGINE CONTROL MODULE (FIGURE 4-8)
TIER IV INTERIM ENGINE



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ENGINE CONTROL MODULE
TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	a 4009427	Engine Assy	1
	b 4082110	Engine Assy (2013) (Service with Short Block Kit 4135331) (Alternate Part)	1
	4098706	Engine Assy (2014) (Alternate Part)	1
	4098704	Engine Assy (Alternate Part)	1
1	1644129	Sensor (Crankshaft Speed and Position)	1
2	1644128	O-Ring	1
3	1517266	Capscrew	1
4	4110235	Data Plate	1
5	1513725	Capscrew	1
6	1512111	Capscrew	2
7	1543437	Capscrew	2
8	1521876	Screw	3
9	1635277	Isolator	3
10	1635278	Isolator	3
11	1644120	Capscrew	1
12	4036443	Capscrew	1
13	1635325	Wire	1
13	4099264	Wire , Ground (2014 Alternate Part)	1
14	1543439	Switch, Oil Pressure	1
15	~~1517116~~		
	1543435	O-Ring	1
16	~~1661205~~		
	4123350	Sensor , MAP (Intake Manifold Pressure)	1
17	. . . . .	O-Ring	1
18	~~1565040~~		
	1691873	Sensor Assembly (Temperature)	1
19	~~1517116~~		
	1543435	O-Ring	1
20	~~4041728~~		
	4036442	Electronic Control Module	1
21	4033326	Bracket	1
21	4104303	Bracket , ETR Control Module (2014 Alternate Part)	1

FOOTNOTES:

a → S/N B236E01709M

b S/N B236E01710M →

NOTE: Refer to plate on engine to determine engine assembly part number.

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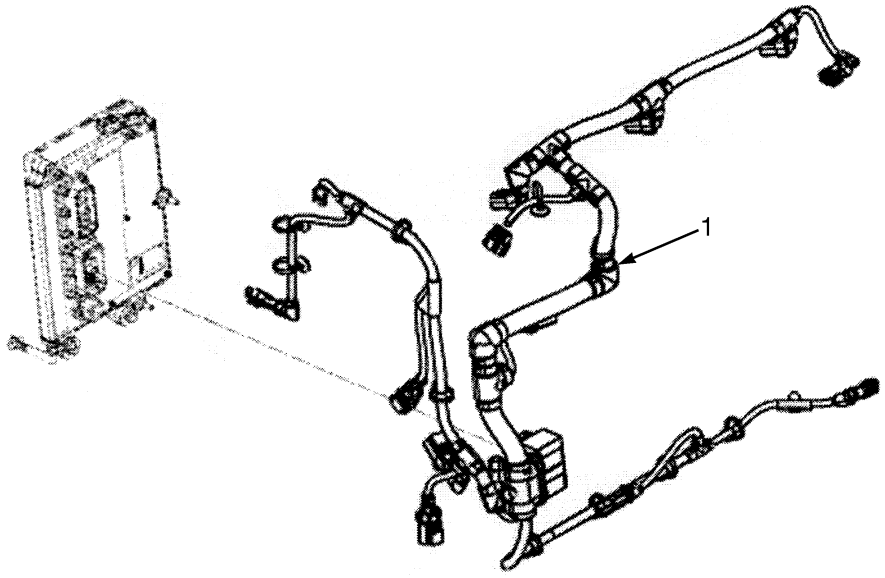
ETR MODULE WIRING (FIGURE 4-9)
TIER III ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	1692949	Engine Assy	1
	1692948	Engine Assy	1
	4023700	Engine Assy	1
	4023703	Engine Assy	1
	4023704	Engine Assy	1
1	1702191	Wire Harness	1
	a 1513712	Nut	1

FOOTNOTES:

a Not Illustrated

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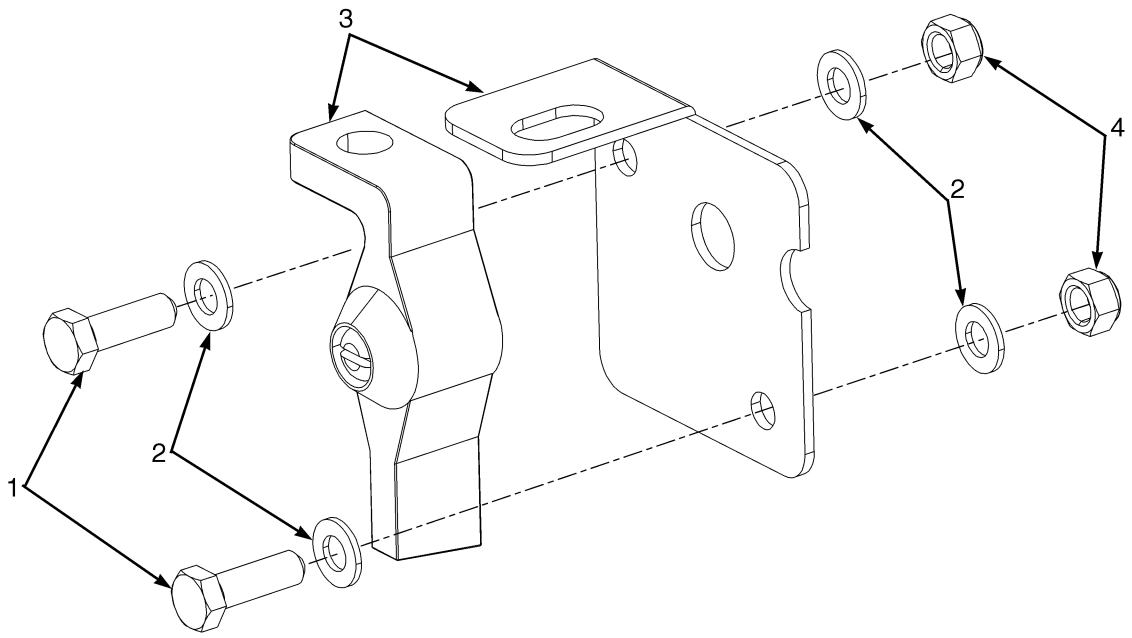
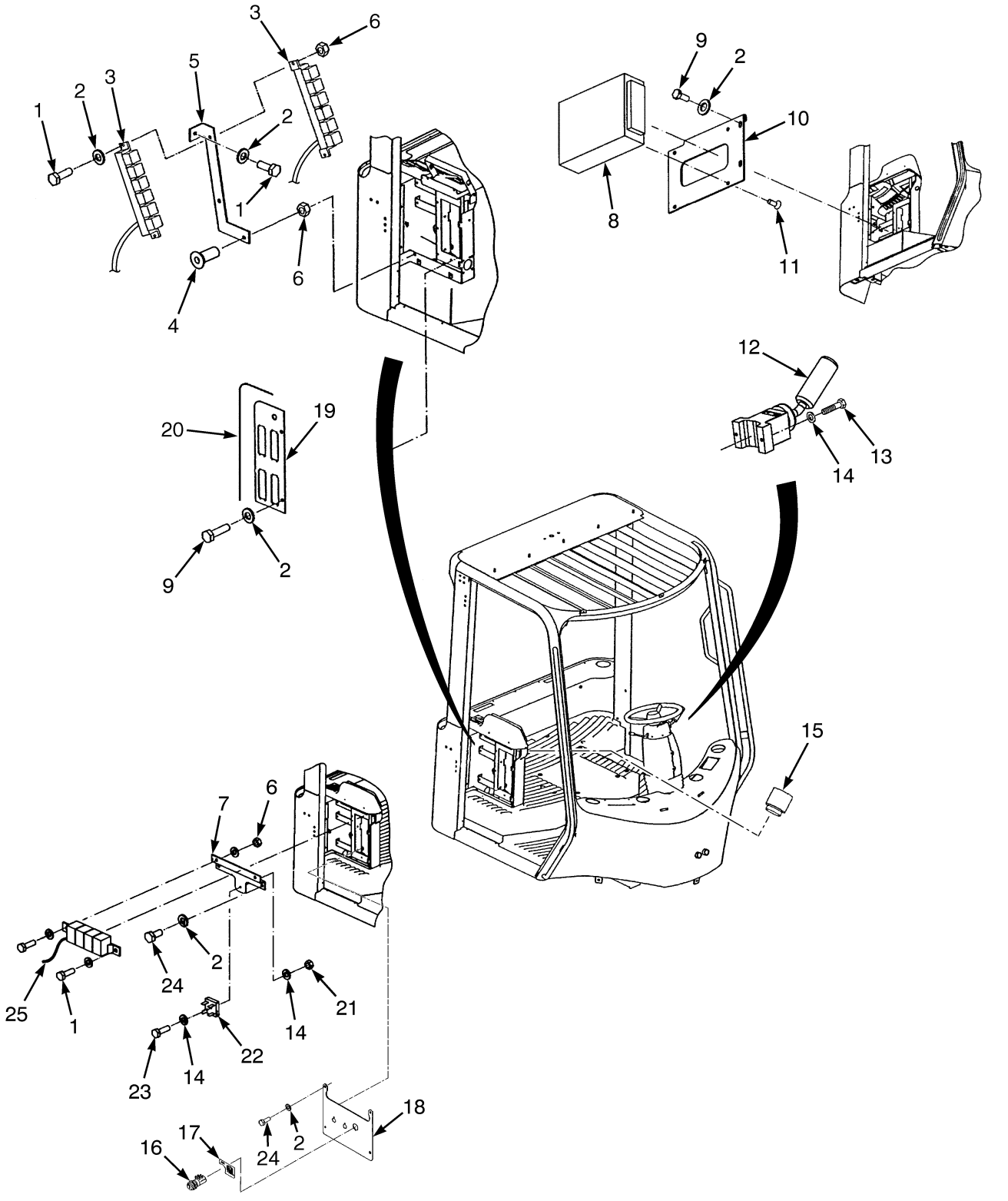
LOCKOUT LEVER (FIGURE 4-10)



BP080730

ITEM	PART NO.	DESCRIPTION	QTY
1	2044515	Capscrew	2
2	320155	Washer	4
3	1585160	Lever (Lockable Disconnect Switch)	1
4	302398	Locknut	2

TRANSMISSION CONTROLLER AND SHIFT LEVER (FIGURE 4-11)



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TRANSMISSION CONTROLLER AND SHIFT LEVER

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	292501	Capscrew	5	5
2	320156	Washer	5	5
3	4065141	Wire Harness (Side Console)	1	..
3	4033788	Wire Harness (Cab Side Console) (☞Figure 4-26, ☞Figure 4-27, ☞Figure 4-28, ☞Figure 4-29)	..	1
4	1558041	Screw	1	1
5	~~1492146~~			
	4178829	Bracket Wldmt	1	1
6	316834	Nut	5	5
7	1623285	Bracket	1	1
8	**d** 1691698	Controller , Transmission (APC 211) (TE-13)	1	..
8	**d** 1691699	Controller , Transmission (APC 211) (TE-17)	1	..
8	**e** 4021032	Controller , Transmission (APC 211) (TE-17)	..	1
8	**e** 4055374	Controller , Transmission (APC 216) (TE-17) (Full Flow)	1	..
8	**e** 4055377	Controller , Transmission (APC 216) (TE-17) (Full Flow)	..	1
9	292500	Capscrew	4	4
10	1558050	Bracket	1	1
11	4001207	Screw	4	4
12	**c** 1567082	Shifter (Forward And Reverse)	1	..
12	**c** 1600223	Shifter (Monotrol)	1	..
12	**b** 4601754	Shifter (Forward And Reverse)	1	1
12	**b** 4601753	Shifter (Monotrol)	1	1
13	1558054	Screw (With Forward And Reverse Shifter)	2	2
13	1623812	Screw (With Monotrol Shifter)	2	2
14	1558055	Washer	4	4
15	1393781	Warning Buzzer , Slow Pulse (Slow Pulse)	1	1
16	4024342	Switch (Key)	..	1
17	4610025	Label (Engine Mode)	..	1
18	4009551	Plate	..	1
19	1623188	Bracket (Fuse Holder)	1	1
20	1492167	Trim-Bulk	AR	AR
21	316833	Nut	1	1
22	1301224	Diode Block	1	1
23	1623284	Bolt	1	1
24	1571775	Screw	6	6
25	1583987	Wire Harness (Hydraulic Relays) (☞Figure 4-48)	1	1
	a 4009795	Label (Fuse Panel)	1	..
	a 4024596	Label (Fuse Panel)	..	1

FOOTNOTES:

a Not Illustrated
b Tier III and Tier IV Interim Engines
c Tier III Engine Only
d → S/N B236E01680L
e S/N B236E01681L →

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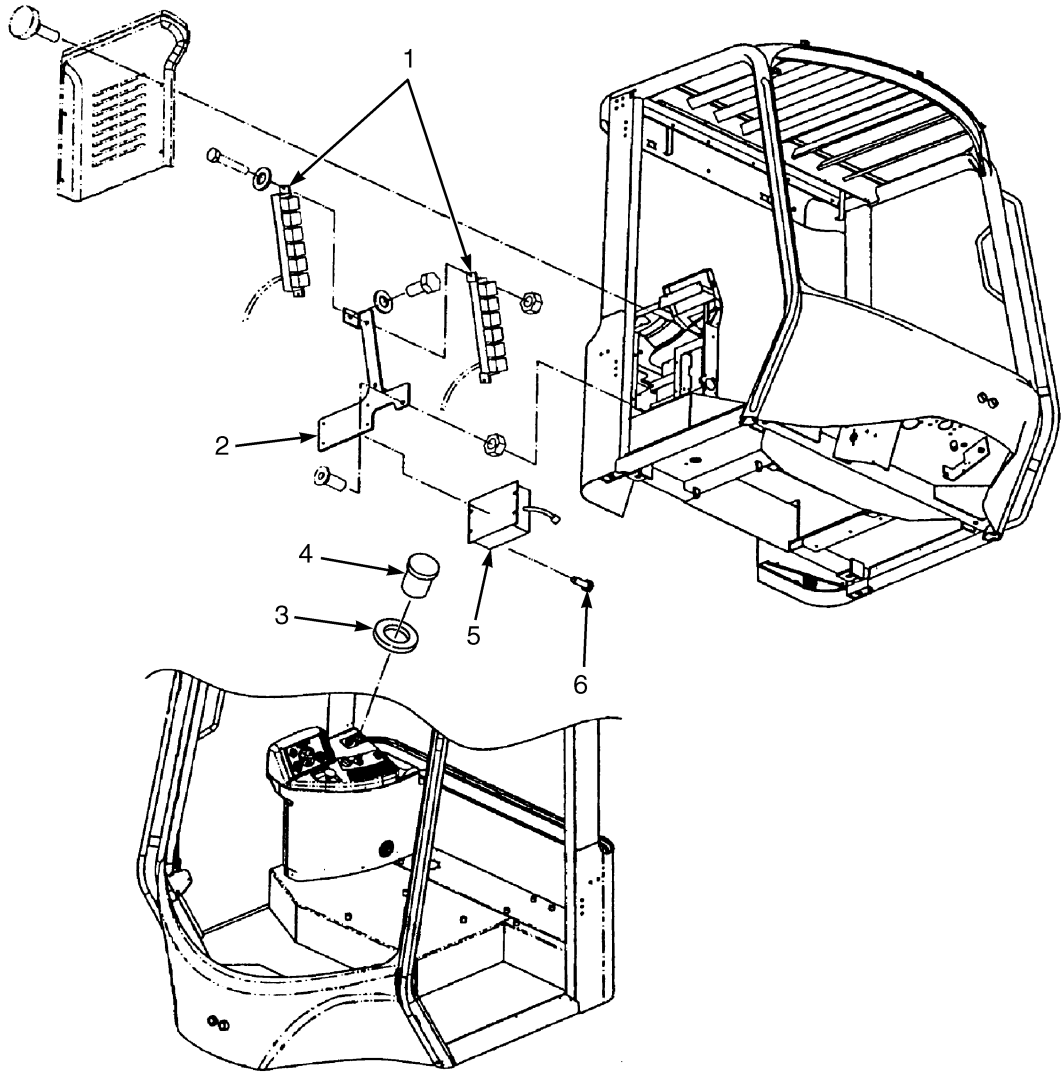
DC-DC CONVERTER AND ATTACHING PARTS (FIGURE 4-12)



HP200115

ITEM	PART NO.	DESCRIPTION	QTY
1	4065141	Wire Harness (Side Console) (Tier III Engine)	1
1	4033788	Wire Harness (Cab Side Console) (Tier IV Interim Engine) (☞Figure 4-26, ☞Figure 4-27, ☞Figure 4-28, ☞Figure 4-29)	1
2	1566765	Bracket	1
3	1558027	Label (12V)	1
4	1566764	Socket (12V)	1
5	2100569	DC-DC Converter	1
6	4001205	Screw	4

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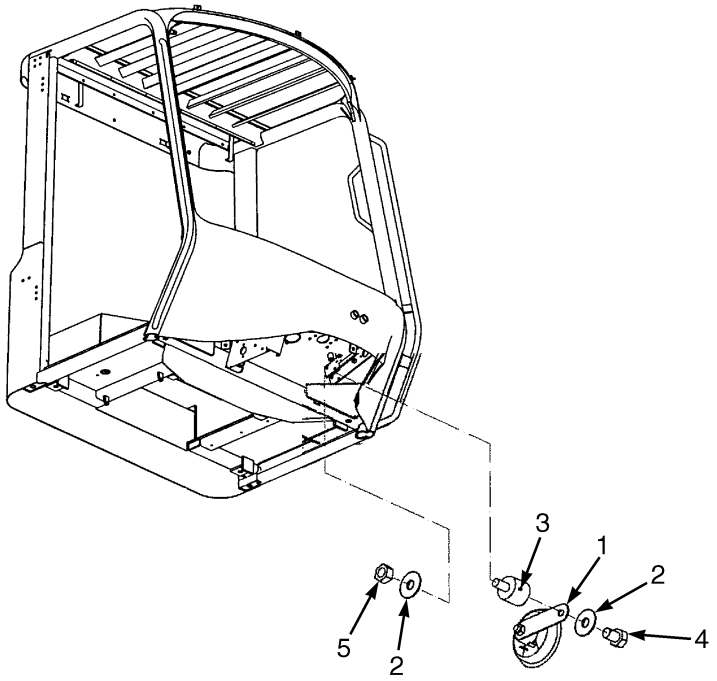
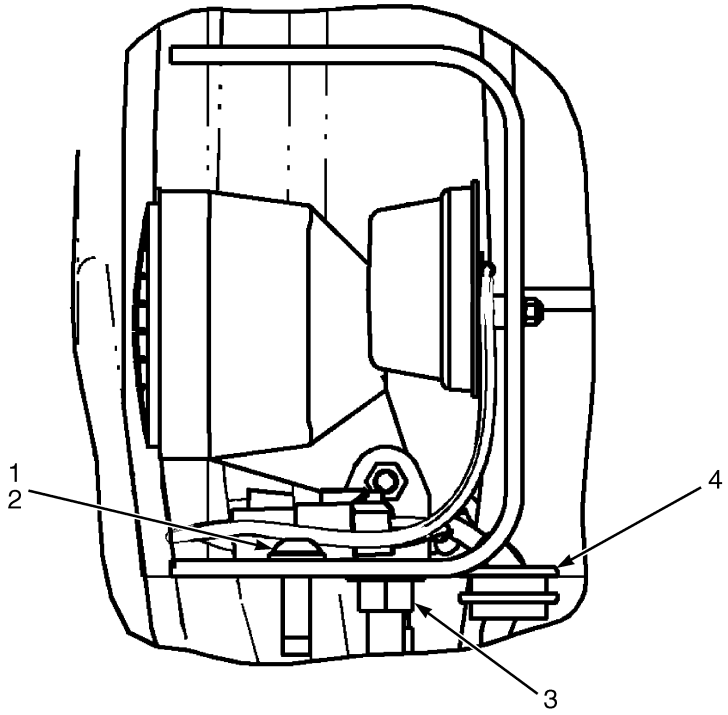
ELECTRIC HORN (FIGURE 4-13)



HP082066

ITEM	PART NO.	DESCRIPTION	QTY
1	1483425	Horn (24 Volt)	1
2	320158	Washer	2
3	353453	Mount	1
4	287805	Capscrew	1
5	316835	Nut	1

FENDER PLUGS (FIGURE 4-14)
WITHOUT FRONT LIGHT BRACKETS



ITEM	PART NO.	DESCRIPTION	QTY
1	1581557	Washer	4
2	1597444	Capscrew	4
3	1480142	Plug	2
4	1480143	Plug	2

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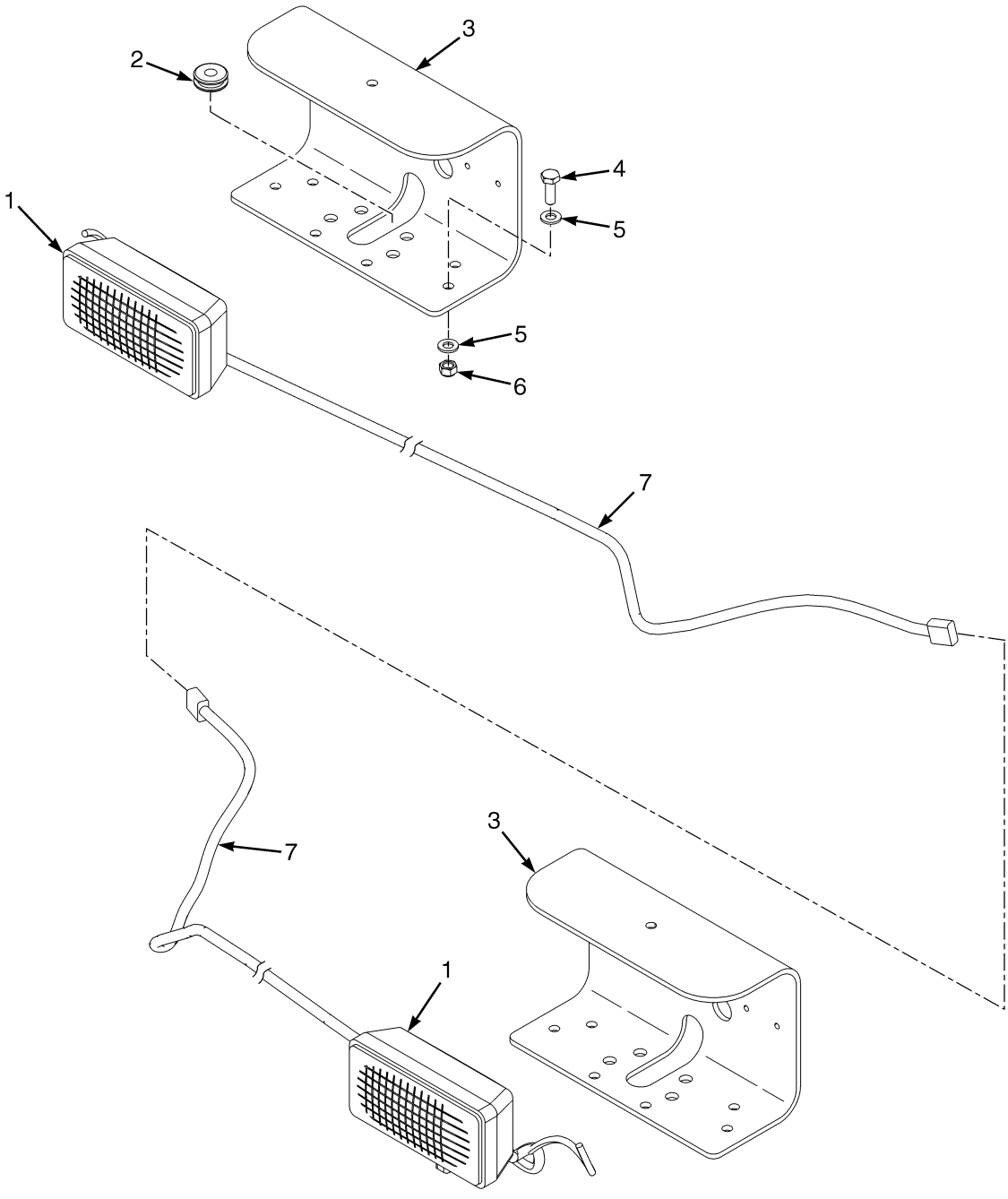
LIGHTS (FIGURE 4-15)
FRONT



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LIGHTS
FRONT

ITEM	PART NO.	DESCRIPTION	QTY
1	1664559	Work Light (Halogen) (Includes Mounting Hardware)	2
1	1310668	Bulb (Halogen)	1
2	339969	Grommet	2
3	1545532	Bracket	2
4	1597444	Capscrew	4
5	1581577	Capscrew	4
6	302401	Locknut	4
7	1672817	Wire Harness (Front Lights) (☞Figure 4-46)	2

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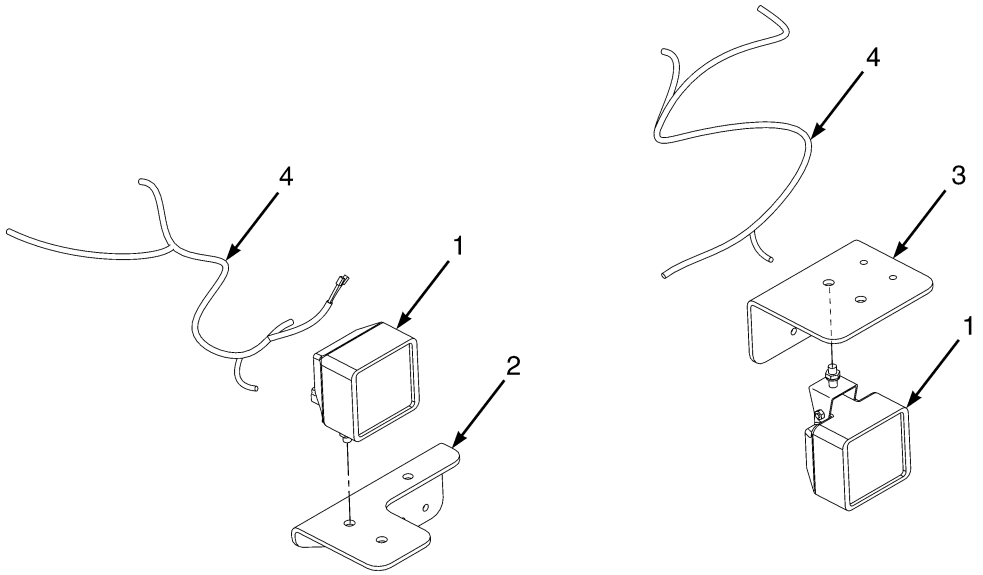
LIGHTS (FIGURE 4-16)
REAR DRIVE — HALOGEN



HP082134

ITEM	PART NO.	DESCRIPTION	QTY
1	1664559	Work Light (Halogen) (Includes Mounting Hardware)	2
1	1310668	Bulb (Halogen)	1
2	1641968	Bracket	1
3	1480201	Plate	1
4	1545172	Wire Harness (Cab Lights) (☞Figure 4-25)	2

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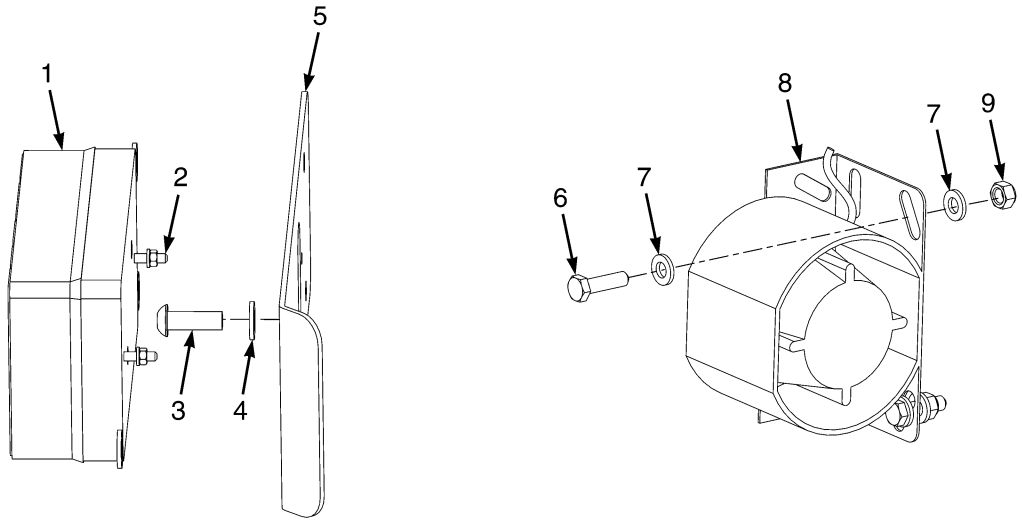
LIGHTS (FIGURE 4-17)
REAR AND BACKUP ALARM



HP081875

ITEM	PART NO.	DESCRIPTION	QTY
1	1479898	Rear Light Assembly	2
1	1491816	Rear Light	1
1	1491810	Strap Clamp	1
1	1491814	Wire Harness	1
1	~~1491811~~		
	345355	Bulb	3
1	~~1491813~~		
	887334	Bulb	1
2	320155	Washer	4
3	1597444	Capscrew	8
4	1581557	Washer	8
5	1590007	Plate	2
6	176640	Bolt	2
7	320157	Washer	4
8	1646834	Back-Up Alarm Assembly	1
8	1646833	Alarm	1
8	1330419	Connector	1
8	1330424	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	2
8	67470	Conduit (Non Metallic)	AR
9	302400	Nut	2

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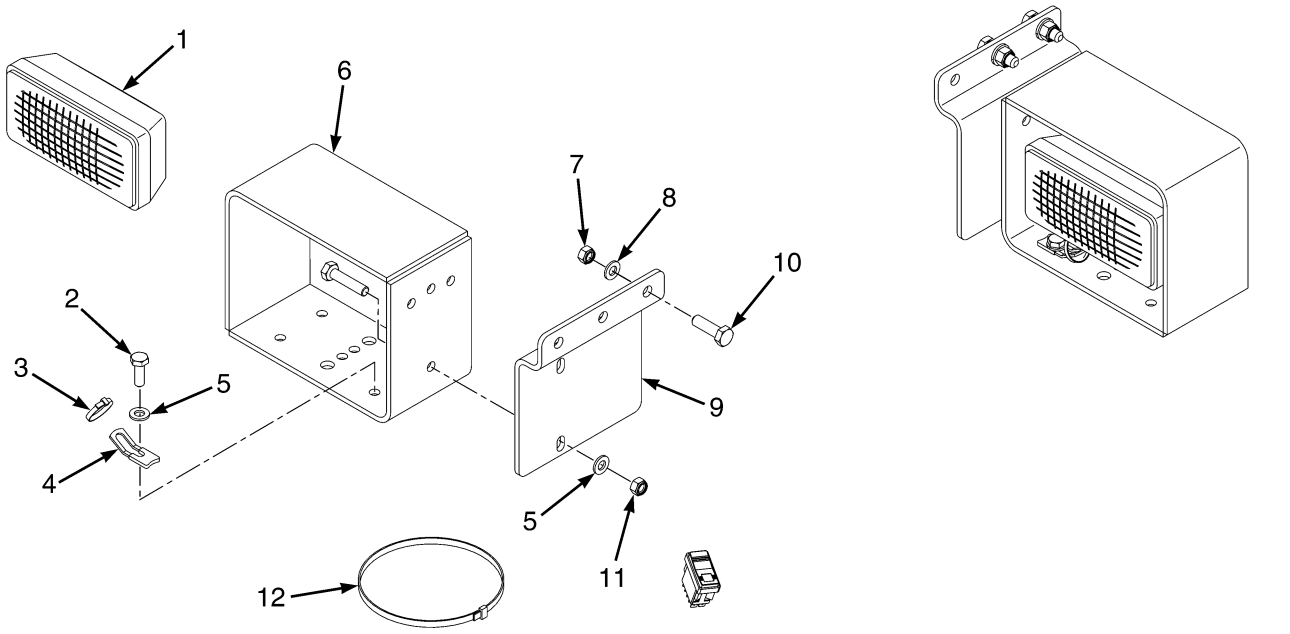
LIGHTS (FIGURE 4-18)
MAST WORK



HP081874

ITEM	PART NO.	DESCRIPTION	QTY
1	1664559	Work Light (Halogen) (Includes Mounting Hardware)	2
1	1310668	Bulb (Halogen)	1
2	136985	Capscrew	6
3	137852	Strap Clamp	8
4	1356947	Strap	2
5	320159	Washer	12
6	816442	Bracket Wldmt	2
7	302402	Locknut	4
8	320161	Washer	4
9	1460312	Bracket	2
10	246001	Capscrew	4
11	302401	Locknut	6
12	273775	Strap Clamp	2
	c d 1623886	Wire Harness (Mast Work Light) (☞Figure 4-50)	1
	a d 1623887	Wire Harness (LH Mast Work Light) (☞Figure 4-50)	1
	b d 1623888	Wire Harness (RH Mast Work Light) (2900-5300 Lift Height) (☞Figure 4-51)	1
	b d 1623889	Wire Harness (RH Mast Work Light) (6100-6900 Lift Height) (☞Figure 4-51)	1

FOOTNOTES:

a Connects 1623886 to LH Light
b Connects 1623886 to RH Light
c Connects Lights to Chassis Harness
d Not Illustrated

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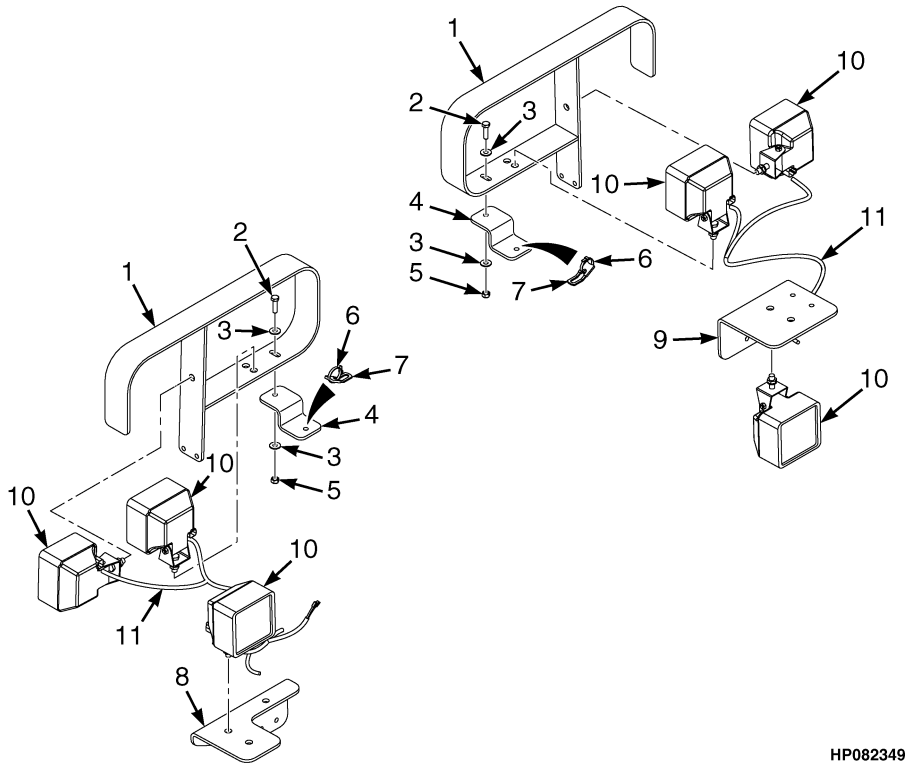
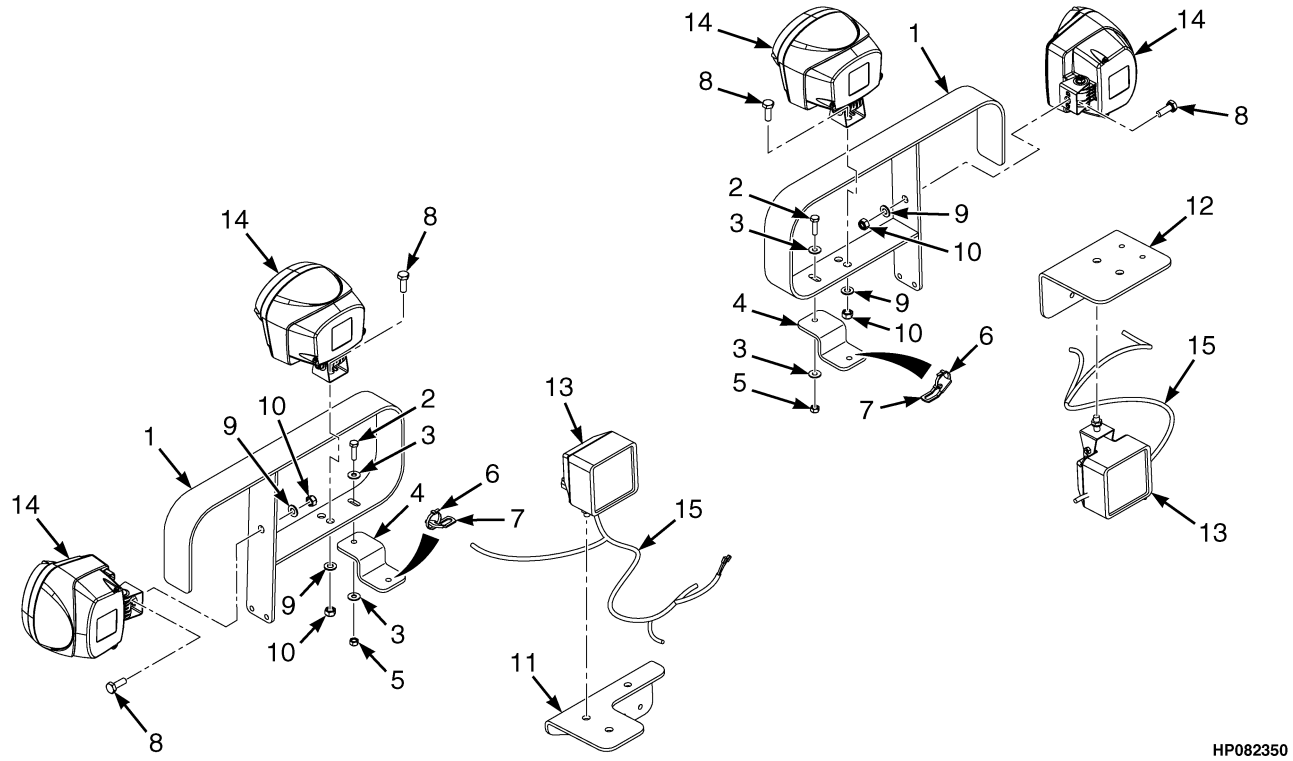
LIGHTS (FIGURE 4-19)
WORK — HALOGEN



ITEM	PART NO.	DESCRIPTION	QTY
1	4032883	Bracket	2
2	176640	Bolt	2
3	320158	Washer	4
4	4032882	Plate	2
5	302400	Nut	2
6	137852	Strap Clamp	2
7	1356947	Strap	2
8	1641968	Bracket	1
9	1480201	Plate	1
10	1664559	Work Light (Halogen) (Includes Mounting Hardware)	6
10	1310668	Bulb (Halogen)	1
11	1545172	Wire Harness (Cab Lights) (☞Figure 4-25)	2

LIGHTS (FIGURE 4-20)

WORK — HID



HP082350

ITEM	PART NO.	DESCRIPTION	QTY
1	4032883	Bracket	2
2	176640	Bolt	2
3	320158	Washer	4
4	4032882	Plate	2
5	302400	Nut	2
6	137852	Strap Clamp	2
7	1356947	Strap	2
8	136985	Capscrew	4
9	320159	Washer	4
10	302401	Locknut	4
11	1641968	Bracket	1
12	1480201	Plate	1
13	1664559	Work Light (Halogen) (Includes Mounting Hardware)	2
13	1310668	Bulb (Halogen)	1
14	1610936	Work Light (HID)	4
14	1635114	Bulb (HID)	1
15	1545172	Wire Harness (Cab Lights) (☞Figure 4-25)	2

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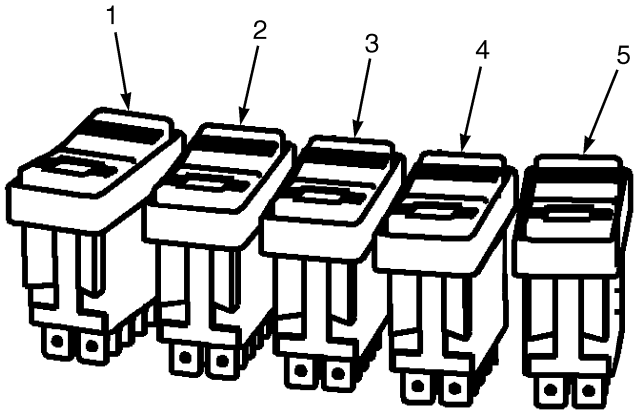
SWITCHES (FIGURE 4-21)



HP082126

ITEM	PART NO.	DESCRIPTION	QTY
1	2052773	Switch (Mast And Attachment Worklight) (Mast Work Lights)	1
2	2052775	Switch (Cab Mounted Drive Lights) (Front Fender Lights)	1
3	2052775	Switch (Cab Mounted Drive Lights) (HID Front)	1
3	2052776	Switch (Rear Work Lights) (HID Rear)	1
4	1581404	Switch (Rotating Beacon) (Rotating Beacon)	1
5	2043351	Switch (Hazard Light)	1
	a 2104176	Jumper (Lights By Battery) (By Battery)	1
	a 2104177	Jumper (Lights By Ignition) (By Ignition)	1

FOOTNOTES:

a Not Illustrated

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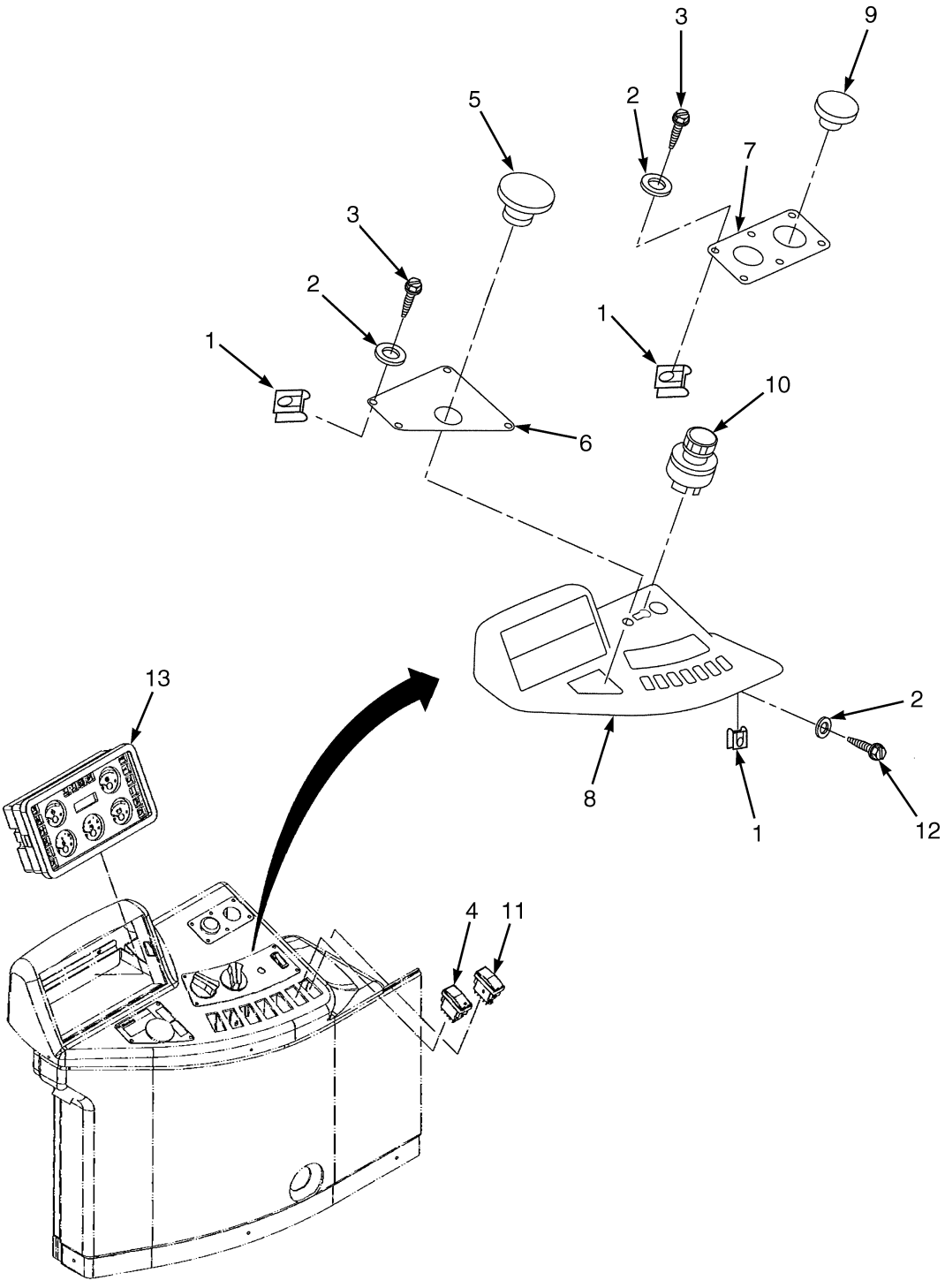
INDICATOR DISPLAY AND CONTROLS (FIGURE 4-22)



HP082145

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INDICATOR DISPLAY AND CONTROLS

ITEM	PART NO.	DESCRIPTION	QTY
1	1492139	Nut	19
2	4028463	Washer	14
3	4028467	Screw	15
4	4019000	Switch (Engine Diagnostic) (Tier IV Interim Engine, TE-17 Transmission)	1
5	1659511	Knob (Park Brake)	1
6	1492147	Plate (Park Brake)	1
7	1566771	Plate (Ignition)	1
8	1566770	Console (RH Top) (Closed Cab)	1
8	1652020	Cover , Console (Open Cab)	1
9	1601935	Plug	1
10	379902	Ignition Switch	1
10	1337197	Key Set	1
10	186304	Key	2
11	4024343	Switch (Regeneration Initiate/Inhibit) (Tier IV Interim Engine, TE-17 Transmission)	1
12	4028468	Screw	4
13	**a** ~~2091418~~ 4608026	Instrument Cluster (Tier III Engine)	1
13	**b** 4624951	Instrument Cluster (Tier III Engine)	1
13	~~4610155~~ 4616455	Instrument Cluster (Tier IV Interim Engine)	1

FOOTNOTES:

a → S/N B236E01616K (Tier III Engine)

b S/N B236E01617K → (Tier III Engine)

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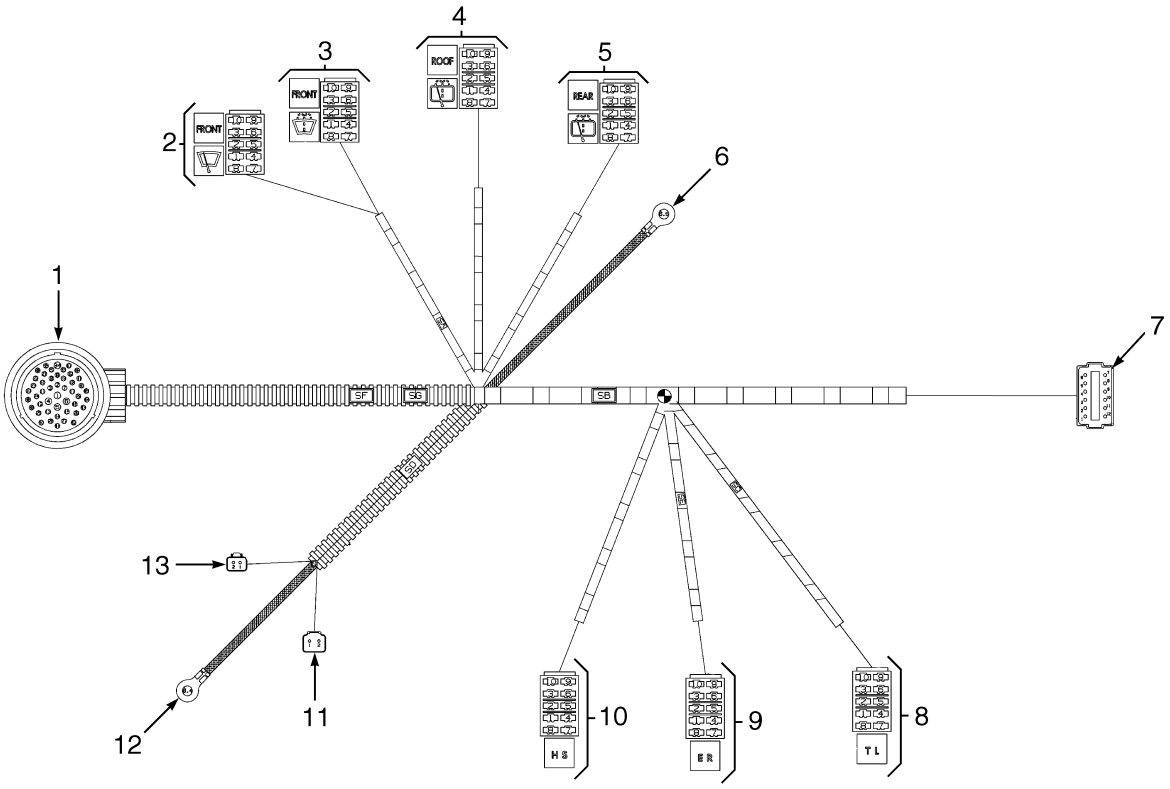
WIRE HARNESS (FIGURE 4-23)
ARMREST — TIER III ENGINE



HP081843

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WIRE HARNESS
ARMREST – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1545176	Wire Harness (Armrest)	1
1	. . . . .	Connector Assembly (C10 Side Console)	1
1	1484554	Connector	1
1	1330438	Terminal (Socket)	5
1	1463141	Terminal (Socket)	33
1	1484377	Plug	9
1	1506881	Cap	1
1	1506883	Clip	1
2	. . . . .	Connector Assembly (C40 Front Wipe Switch)	1
2	1484555	Connector Body (10-Way)	1
2	1484556	Terminal	5
2	1570611	Label (Front Wiper)	1
3	. . . . .	Connector Assembly (C50 Front Wash Switch)	1
3	1484555	Connector Body (10-Way)	1
3	1484556	Terminal	2
3	1570611	Label (Front Wiper)	1
3	1570608	Label (Front)	1
3	1570614	Label (Wash)	1
4	. . . . .	Connector Assembly (C60 Roof Wash And Wipe Switch)	1
4	1484555	Connector Body (10-Way)	1
4	1484556	Terminal	4
4	233141	Terminal	1
4	1570609	Label (Roof)	1
4	1570612	Label (Rear/Roof Wash Wipe)	1
5	. . . . .	Connector Assembly (C80 Rear Wash And Wipe Switch)	1
5	1484555	Connector Body (10-Way)	1
5	1484556	Terminal	4
5	233141	Terminal	1
5	1570610	Label (Rear)	1
5	1570612	Label (Rear/Roof Wash Wipe)	1
6	. . . . .	Connector Assembly (C85 Armrest Ground)	1
6	1506885	Ring	1
7	. . . . .	Connector Assembly (C210 Joystick)	1
7	1500925	Connector (DT REC 12-Pin)	1
7	1352603	Secondary Lock	1
7	1330437	Terminal (Pin)	12
8	. . . . .	Connector Assembly (C120 Twist-Lock Switch)	1
8	1484555	Connector Body (10-Way)	1
8	233141	Terminal	1
8	1484556	Terminal	5
8	1570613	Label (Twist Lock)	1
9	. . . . .	Connector Assembly (C110 Extend And Retract Switch)	1
9	1484555	Connector Body (10-Way)	1
9	233141	Terminal	1
9	1484556	Terminal	5
10	. . . . .	Connector Assembly (C100 Hydraulic Stop Switch)	1
10	1484555	Connector Body (10-Way)	1
10	233141	Terminal	1
10	1484556	Terminal	5
11	. . . . .	Connector Assembly (C30 Operator Presence Switch)	1

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WIRE HARNESS
ARMREST – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
11	1493465	Connector (2 Pin)	1
11	1330414	Connector (Secondary Lock)	1
11	1330437	Terminal (Pin)	2
12	. . . . .	Connector Assembly (C25 Seat Ground)	1
12	1493459	Ring	1
13	. . . . .	Connector Assembly (C20 Suspension Seat)	1
13	1330438	Terminal (Socket)	2
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1493465	Connector (2 Pin)	2

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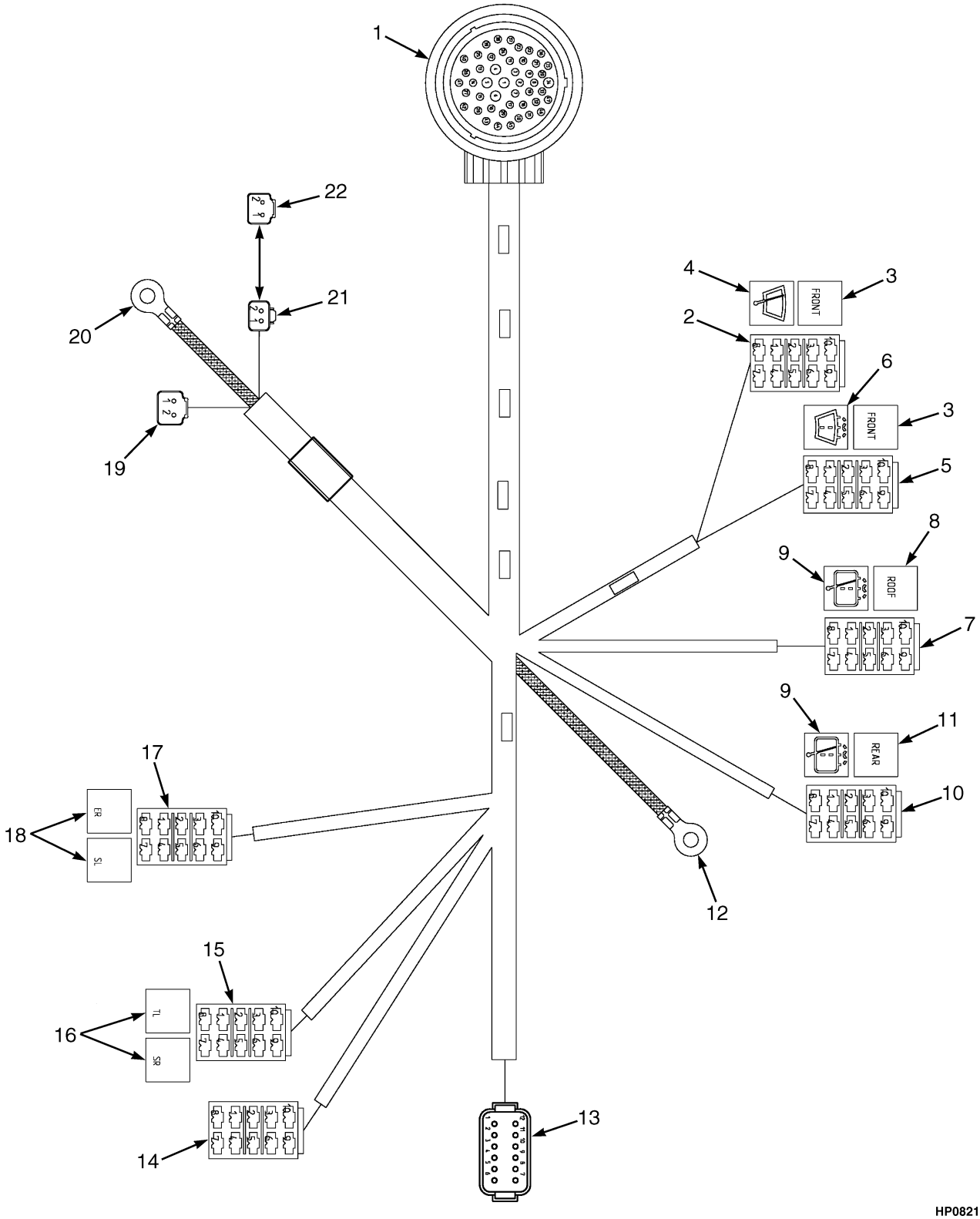
WIRE HARNESS (FIGURE 4-24)
ARMREST — TIER IV INTERIM ENGINE



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WIRE HARNESS
ARMREST – TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4023000	Wire Harness (Armrest)	1
1	. . . . .	Connector Assembly (CPS81 Armrest - Side Console)	1
1	1484554	Connector	1
1	1506881	Cap	1
1	1506883	Clip	1
1	1330438	Terminal (Socket)	5
1	1463141	Terminal (Socket)	24
1	1484377	Plug	18
2	. . . . .	Connector Assembly (CPS86 Front Wiper Switch)	1
2	1484555	Connector Body (10-Way)	1
2	1484556	Terminal	2
3	1570608	Label (Front)	2
4	1570611	Label (Front Wiper)	1
5	. . . . .	Connector Assembly (CPS89 Front Washer Switch)	1
6	1500925	Connector (DT REC 12-Pin)	1
7	. . . . .	Connector Assembly (CPS90 Roof Wiper/Washer Switch)	1
7	1484555	Connector Body (10-Way)	1
7	233141	Terminal	1
7	1484556	Terminal	4
8	1570609	Label (Roof)	1
9	1570612	Label (Rear/Roof Wash Wipe)	2
10	. . . . .	Connector Assembly (CPS91 Rear Wiper/Washer Switch)	1
10	1484555	Connector Body (10-Way)	1
10	233141	Terminal	1
10	1484556	Terminal	4
11	1570610	Label (Rear)	1
12	. . . . .	Connector Assembly (TS102 Armrest Ground)	1
12	1506885	Ring	1
13	. . . . .	Connector Assembly (CPS135 Switches Joystick)	1
13	1500925	Connector (DT REC 12-Pin)	1
13	1352603	Secondary Lock	1
13	1330437	Terminal (Pin)	5
13	1330439	Plug	7
14	. . . . .	Connector Assembly (CPS119 Hydraulic Stops)	1
14	1484555	Connector Body (10-Way)	1
14	233141	Terminal	1
14	1484556	Terminal	3
15	. . . . .	Connector Assembly (CPS118 Twist Locks)	1
15	1484555	Connector Body (10-Way)	1
15	233141	Terminal	1
15	1484556	Terminal	5
16	. . . . .	Decals	1
17	. . . . .	Connector Assembly (CPS138 Auxiliary 3)	1
17	1484555	Connector Body (10-Way)	1
17	233141	Terminal	1
17	1484556	Terminal	5
18	. . . . .	Decals	1
19	. . . . .	Connector Assembly (CRP02 Ops Switch)	1
19	1502920	Connector (DT REC 2-Pin)	1
19	1330414	Connector (Secondary Lock)	1

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WIRE HARNESS

ARMREST – TIER IV INTERIM ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
19	1330437	Terminal (Pin)	2
20	. . . . .	Connector Assembly (TS103 Armrest Ground)	1
20	1493459	Ring	1
21	. . . . .	Connector Assembly (CPS144 Suspension Seat)	1
21	1490242	Connector (2 Way)	1
21	1490243	Connector (Secondary Lock)	1
21	1330438	Terminal (Socket)	2
22	. . . . .	Insert (CRP144 Suspension Seat Cap)	1
22	1493465	Connector (2 Pin)	1
22	1330439	Plug	2

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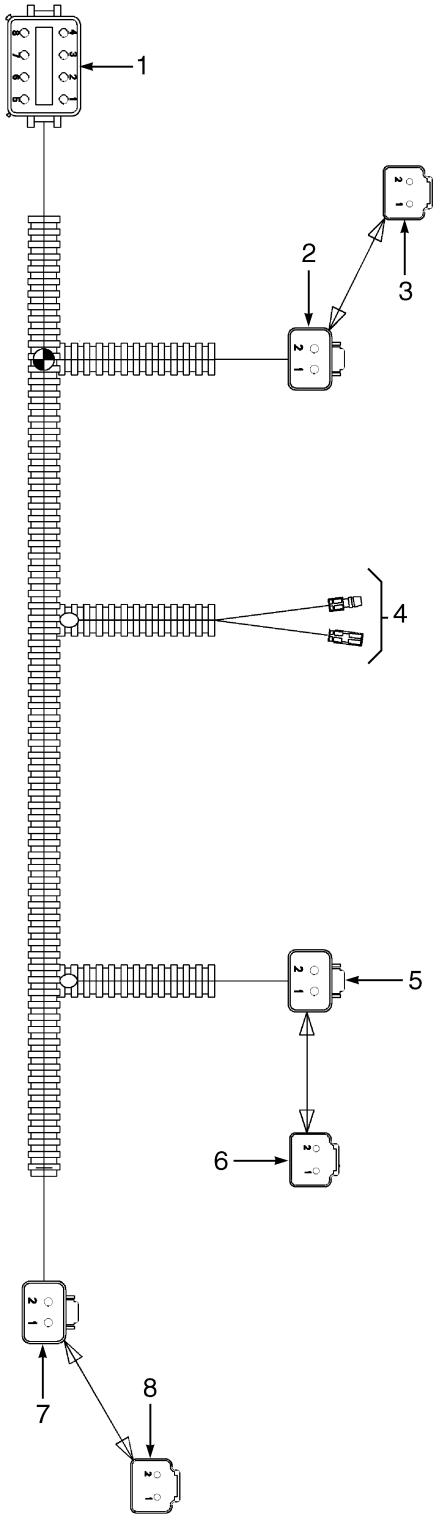
WIRE HARNESS (FIGURE 4-25)
CAB LIGHTS



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WIRE HARNESS
CAB LIGHTS

ITEM	PART NO.	DESCRIPTION	QTY
	1545172	Wire Harness (Cab Lights)	1
1	. . . . .	Connector Assembly (C10 Cab)	1
1	1502625	Connector (DT PLU 8-Socket)	1
1	1502626	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	4
1	1330439	Plug	3
1	1363886	Terminal (Socket)	1
2	. . . . .	Connector Assembly (C20 Rear Drive Light)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2
3	. . . . .	Insert	1
3	1493465	Connector (2 Pin)	1
3	1330439	Plug	2
4	. . . . .	Connector Set (C30 Beacon/Strobe)	1
4	1493444	Terminal	1
4	1493445	Cover (Socket Terminal)	1
4	1497358	Terminal	1
4	1497287	Cover	1
5	. . . . .	Connector Assembly (C40 Inner Front Floodlight)	1
5	1490242	Connector (2 Way)	1
5	1490243	Connector (Secondary Lock)	2
5	1330438	Terminal (Socket)	1
6	. . . . .	Insert	1
6	1493465	Connector (2 Pin)	1
6	1330439	Plug	1
7	. . . . .	Connector Assembly (C50 Outer Front Floodlight)	1
7	1490242	Connector (2 Way)	1
7	1490243	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	2
8	. . . . .	Insert	1
8	1493465	Connector (2 Pin)	1
8	1330439	Plug	1

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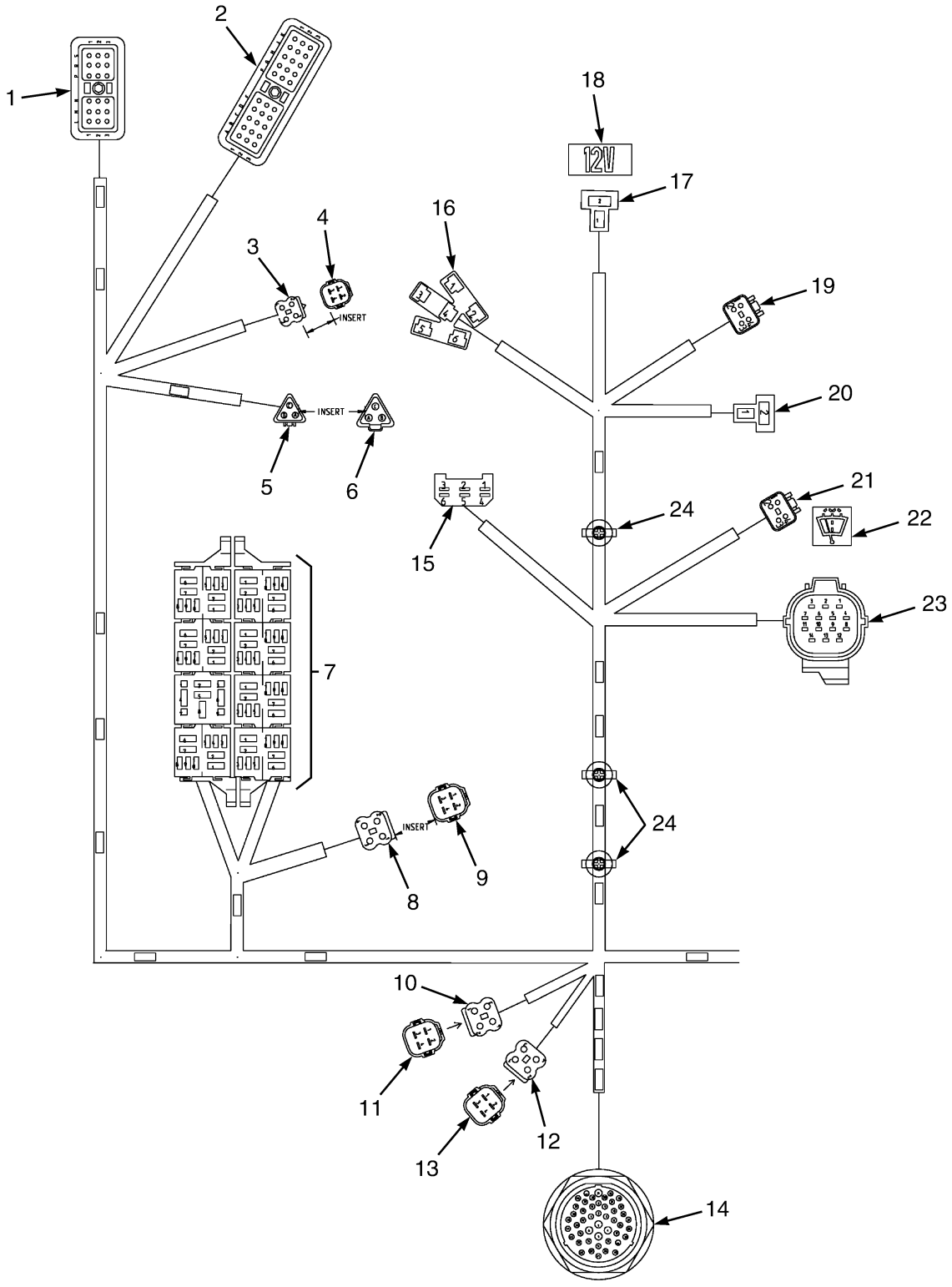
WIRE HARNESS (FIGURE 4-26)

CAB SIDE CONSOLE, PAGE 1 OF 3 — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4033788	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (CPS21 Transmission J1)	1
1	1602433	Connector	1
1	1323581	Plug	8
1	1532571	Terminal	10
2	. . . . .	Connector Assembly (CPS27 Transmission J2)	1
2	1602432	Connector	1
2	1323581	Plug	2
2	1521989	Terminal	1
2	1532571	Terminal	27
3	. . . . .	Connector Assembly (CPS34 Transmission Resistors)	1
3	1610950	Housing (Sealed) (4-Way)	1
3	1482658	Terminal	4
4	. . . . .	Insert (CRP34 Transmission Resistors)	1
4	1610949	Resistor	1
5	. . . . .	Connector Assembly (CPS66 End Resistor)	1
5	1484397	Connector (3-Way)	1
5	1330439	Plug	1
5	1518112	Terminal (Socket)	2
5	1532664	Connector (Secondary Lock)	1
6	. . . . .	Insert (CRP66 End Resistor)	1
6	1607772	Connector (Termination)	1
7	. . . . .	Relays (☞Figure 4-29)	1
8	. . . . .	Connector Assembly (CPS17 Diode Main Power)	1
8	1610950	Housing (Sealed) (4-Way)	1
8	1482658	Terminal	4
8	1482659	Seal (Rubber)	1
9	. . . . .	Insert (CRP17 Diode Main Power)	1
9	1610953	Diode	1
10	. . . . .	Connector Assembly (CPS01 Diode FPLT)	1
10	1610950	Housing (Sealed) (4-Way)	1
10	1482658	Terminal	2
10	1482659	Seal (Rubber)	2
11	. . . . .	Insert (CRP01 Diode FPLT)	1
11	1610953	Diode	1
12	. . . . .	Connector Assembly (CPS163 Diode Lift/Lower)	1
12	1610950	Housing (Sealed) (4-Way)	1
12	1482658	Terminal	4
12	1482659	Seal (Rubber)	2
13	. . . . .	Insert (CRP163 Diode Lift/Lower)	1
13	1610953	Diode	1
14	. . . . .	Connector Assembly (CRP81 Side Console Armrest)	1
14	1484664	Housing	1
14	1484685	Locknut	1
14	1330437	Terminal (Pin)	5
14	~~1570624~~		
	1463140	Terminal (Pin)	23
14	1484377	Plug	19
15	. . . . .	Connector Assembly (CPS71 Wiper Timer)	1
15	1484676	Housing (Socket)	1

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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
15	1484556	Terminal	6
16	. . . . .	Connector Assembly (CPS14 Key Switch)	1
16	370728	Connector Body	1
16	1484375	Terminal	4
17	. . . . .	Connector Assembly (CPS46 12V Plug)	1
17	1465378	Connector Body	1
17	1484556	Terminal	2
18	1570645	Label (12 Volt)	1
19	. . . . .	Connector Assembly (CPS116 HVAC Unit)	1
19	1489656	Connector (4-Way)	1
19	1489657	Connector (Secondary Lock)	1
19	1330438	Terminal (Socket)	4
20	. . . . .	Connector Assembly (CPS96 MAP Light)	1
20	1465378	Connector Body	1
20	1484556	Terminal	2
21	. . . . .	Connector Assembly (CPS74 Side Console-Rear Wiper)	1
21	1489656	Connector (4-Way)	1
21	1489657	Connector (Secondary Lock)	1
21	1330438	Terminal (Socket)	4
22	1570644	Label (Rear Wash/Wipe Switch)	1
23	. . . . .	Connector Assembly (CRP63 Side Console-Closed Cab)	1
23	1484654	Connector (14-Way)	1
23	1484655	Retainer (Socket)	1
23	1482658	Terminal	9
23	1484611	Seal (Blanking)	1
23	1484708	Terminal (Socket)	4
23	1484595	Seal	4
23	1484597	Seal	9
24	1500927	Clip	3

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NOTES

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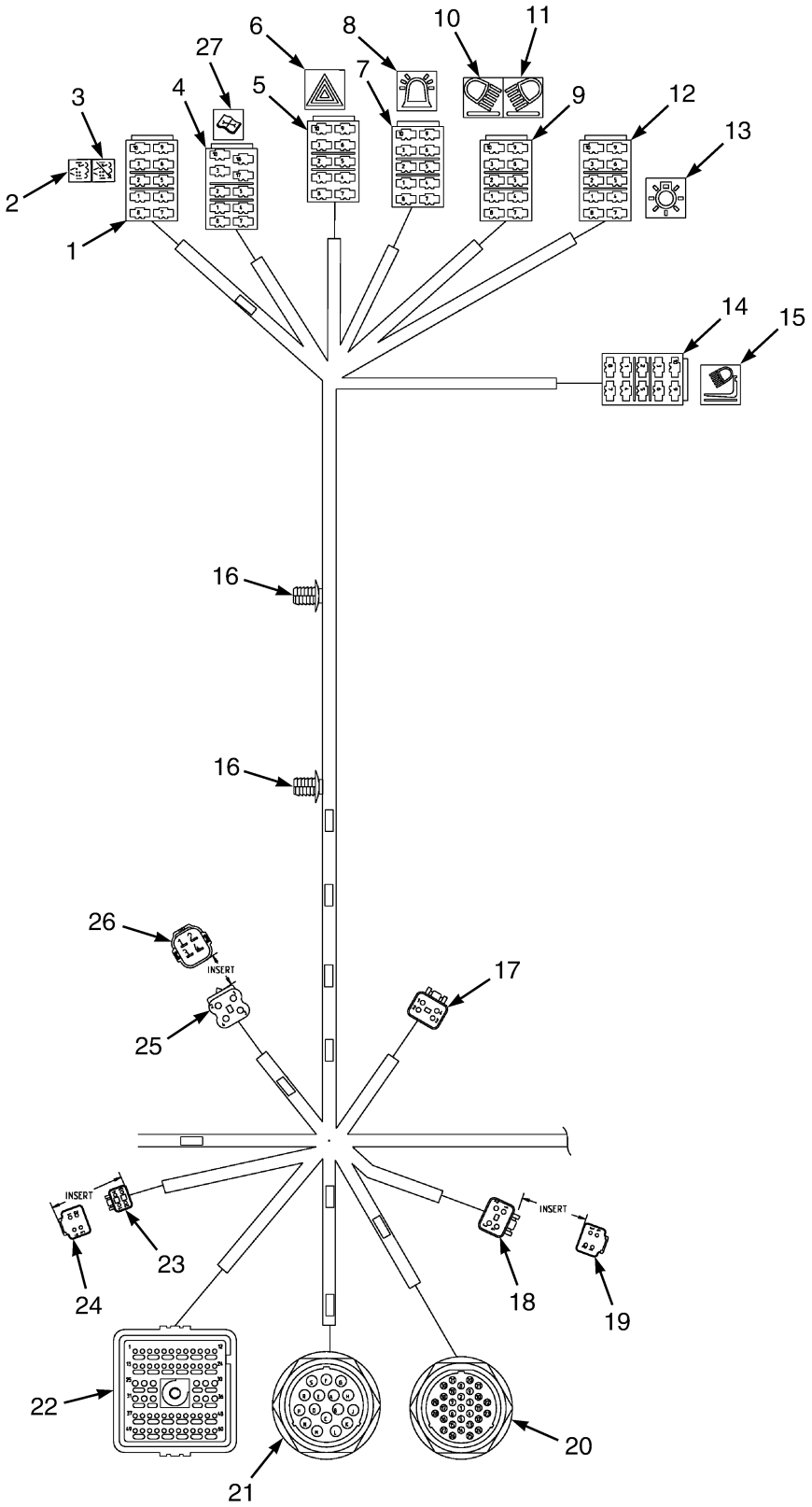
WIRE HARNESS (FIGURE 4-27)

CAB SIDE CONSOLE, PAGE 2 OF 3 — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4033788	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (CPS73 Regen Engine Disable Switch)	1
1	1484555	Connector Body (10-Way)	1
1	233141	Terminal	4
2	. . . . .	Label (Manual Regen Switch)	1
3	. . . . .	Label (Regen Inhibit Switch)	1
4	. . . . .	Connector Assembly (CPS85 Diagnostic Switch)	1
4	1484555	Connector Body (10-Way)	1
4	233141	Terminal	2
5	. . . . .	Connector Assembly (CPS77 Hazard Switch)	1
5	1484675	Connector Body	1
5	233141	Terminal	8
6	1570638	Label (Hazard Light)	1
7	. . . . .	Connector Assembly (CPS47 Beacon/Strobe Switch)	1
7	1484555	Connector Body (10-Way)	1
7	233141	Terminal	4
8	1570639	Label (Beacon Switch)	1
9	. . . . .	Connector Assembly (CPS48 Flood/RR Drive Lights Switch)	1
9	1484555	Connector Body (10-Way)	1
9	233141	Terminal	4
10	1497361	Label (Front Worklight Switch)	1
11	1497362	Label (Rear Worklight Switch)	1
12	. . . . .	Connector Assembly (CPS53 Mast/Attachment Lights Switch)	1
12	1484555	Connector Body (10-Way)	1
12	233141	Terminal	2
13	1570641	Label (Roadlight Switch)	1
14	. . . . .	Connector Assembly (CPS52 Side/Front Lights Switch)	1
14	1484555	Connector Body (10-Way)	1
14	233141	Terminal	4
15	1570643	Label (Mast And Attachment Worklight)	1
16	1500927	Clip	2
17	. . . . .	Connector Assembly (CPS28 Side Console/Wash Pumps)	1
17	1489656	Connector (4-Way)	1
17	1489657	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	4
18	. . . . .	Connector Assembly (CPS70 Engine Shutdown Jumper)	1
18	1489656	Connector (4-Way)	1
18	1489657	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	1
19	. . . . .	Insert (CRP70 Engine Shutdown Jumper)	1
19	1489655	Connector (4 Way)	1
19	1330416	Connector (Secondary Lock)	1
19	1330437	Terminal (Pin)	2
19	1330439	Plug	2
20	. . . . .	Connector Assembly (CRP35 Auxiliary Signals)	1
20	1484666	Housing	1
20	1484685	Locknut	1
20	1330437	Terminal (Pin)	14
20	1330439	Plug	17
21	. . . . .	Connector Assembly (CRP06 Cab Power)	1

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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
21	1484665	Housing	1
21	1484685	Locknut	1
21	1484709	Terminal (Pin)	16
22	. . . . .	Connector Assembly (CRP07 Cab Signals)	1
22	1484363	Housing (Socket)	1
22	1484662	Pin Retainer	1
22	1330437	Terminal (Pin)	10
22	1330439	Plug	2
22	~~1570624~~		
	1463140	Terminal (Pin)	40
22	1484377	Plug	6
22	1610945	Terminal	2
23	. . . . .	Connector Assembly (CPS107 DC/DC Convertor)	1
23	1632865	Connector (DTP PLU 4 Socket)	1
23	1514603	Connector (Secondary Lock)	1
23	1330439	Plug	1
23	1493434	Terminal (Socket)	3
24	. . . . .	Insert (CRP107 DC/DC Convertor)	1
24	1514597	Connector (DTP REC 4-Pin)	1
24	1330439	Plug	4
25	. . . . .	Connector Assembly (CPS39 Lights Diode)	1
25	1610950	Housing (Sealed) (4-Way)	1
25	1482658	Terminal	4
25	1482659	Seal (Rubber)	3
26	. . . . .	Insert (CRP39 Lights Diode)	1
26	1610953	Diode	1
27	. . . . .	Label	1

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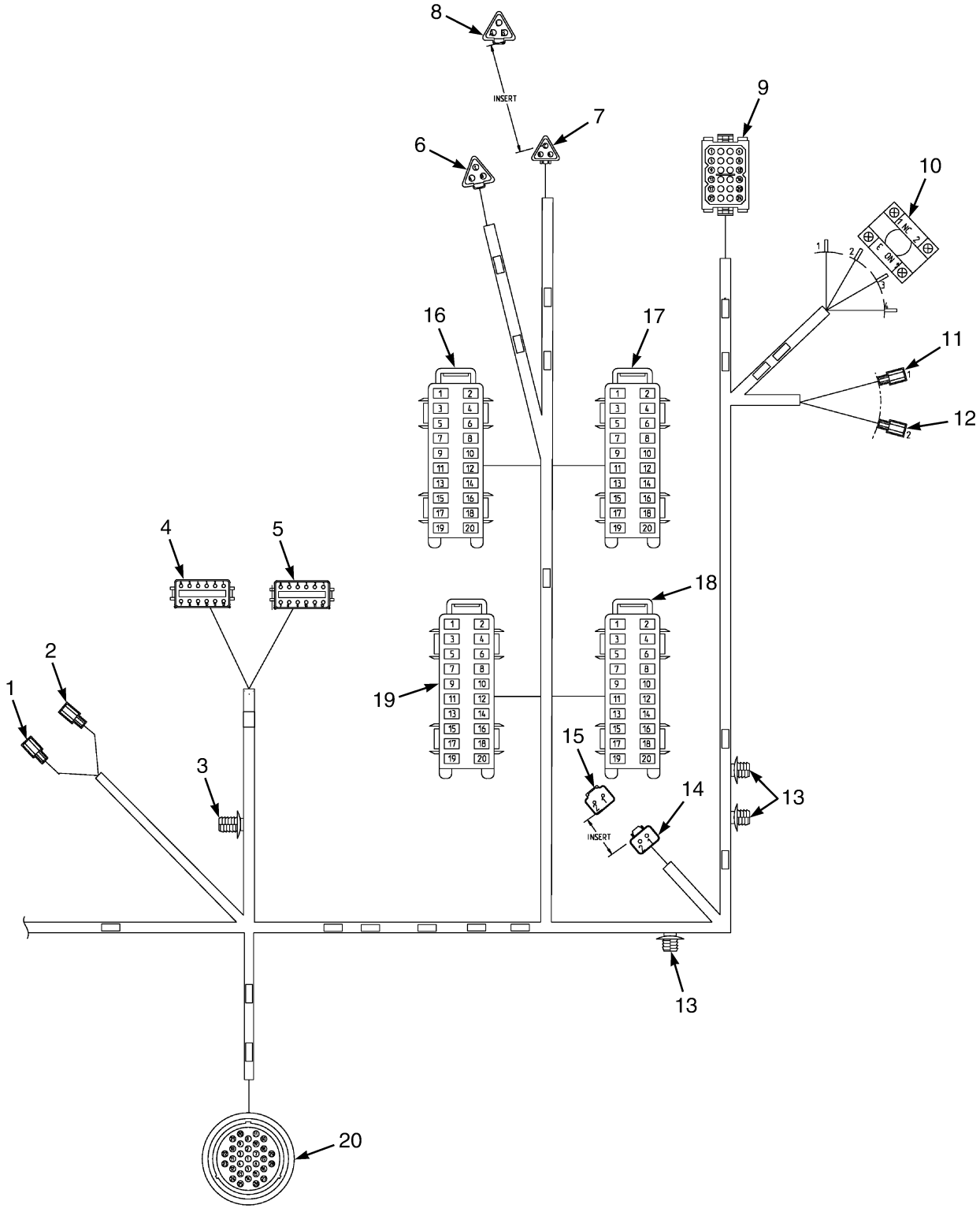
WIRE HARNESS (FIGURE 4-28)

CAB SIDE CONSOLE, PAGE 3 OF 3 — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4033788	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (TS23 ECO/Power SW1)	1
1	4032534	Connector	1
1	1484600	Terminal	1
2	. . . . .	Connector Assembly (TS24 ECO/Power SW2)	1
2	4032534	Connector	1
2	1484600	Terminal	1
3	1500927	Clip	1
4	. . . . .	Connector Assembly (CPS161 Hydraulic Relays)	1
4	1493428	Connector (12-Way)	1
4	1500913	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	7
5	. . . . .	Connector Assembly (CPS162 Hydraulic Relays)	1
5	1493428	Connector (12-Way)	1
5	1500913	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	7
6	. . . . .	Connector Assembly (CRP05 Lights Jumper)	1
6	1493466	Connector (3-Way)	1
6	1330415	Connector (Secondary Lock)	1
6	1330437	Terminal (Pin)	3
7	. . . . .	Connector Assembly (CPS19 Diagnostic Connector)	1
7	1484397	Connector (3-Way)	1
7	1330438	Terminal (Socket)	2
7	1330439	Plug	1
7	1532664	Connector (Secondary Lock)	1
8	. . . . .	Insert (CRP19 Diagnostic Connector)	1
8	1493466	Connector (3-Way)	1
8	1500912	Clip	1
8	1330439	Plug	3
9	. . . . .	Connector Assembly (CPS94 Instrument Cluster)	1
9	1484677	Plug (24-Way)	1
9	1484716	Terminal	16
10	. . . . .	Connector Assembly (CRS01 Park Brake Switch)	1
10	1561756	Cover (Lower)	1
10	1567676	Cover (Upper)	1
10	1570606	Strap Clamp	1
10	1658852	Two Way Switch Element (Park Brake)	1
10	1484394	Crimp Ferrule	4
11	. . . . .	Connector Assembly (TS82 Buzzer)	1
11	1610947	Receptacle	1
11	1624103	Terminal	1
12	. . . . .	Connector Assembly (TS83 Buzzer)	1
12	1610947	Receptacle	1
12	1624103	Terminal	1
13	1490245	Clip	3
14	. . . . .	Connector Assembly (CPS145 Accessory Socket 24V)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Insert (CRP145 Accessory Socket 24V)	1

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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
15	1493465	Connector (2 Pin)	1
15	1330439	Plug	2
16	. . . . .	Fuses 1-10 (CPS37)	1
16	1484681	10 Way Fuse Box Connector	1
16	~~1389477~~		
	1484682	Secondary Lock	1
16	1389479	Terminal	3
16	1489957	Connector (1-Way)	11
16	1490249	Connector (1-Way)	2
17	. . . . .	Fuses 11-20 (CPS50)	1
17	1484681	10 Way Fuse Box Connector	1
17	~~1389477~~		
	1484682	Secondary Lock	1
17	1389479	Terminal	2
17	1489957	Connector (1-Way)	10
17	1490249	Connector (1-Way)	2
17	1490250	Terminal (2-Way)	3
18	. . . . .	Fuses 31-40 (CPS109)	1
18	1484681	10 Way Fuse Box Connector	1
18	~~1389477~~		
	1484682	Secondary Lock	1
18	1389479	Terminal	3
18	1489957	Connector (1-Way)	6
18	1490249	Connector (1-Way)	1
18	1490250	Terminal (2-Way)	1
19	. . . . .	Fuses 21-30 (CPS51)	1
19	1484681	10 Way Fuse Box Connector	1
19	~~1389477~~		
	1484682	Secondary Lock	1
19	1389479	Terminal	5
19	1489957	Connector (1-Way)	6
19	1490249	Connector (1-Way)	3
19	1490250	Terminal (2-Way)	1
19	1610952	Terminal	1
20	. . . . .	Connector Assembly (CPS33 Side Console-Underfloor)	1
20	1484650	Connector (Socket)	1
20	1330438	Terminal (Socket)	25
20	1330439	Plug	4
20	1597773	Terminal	2

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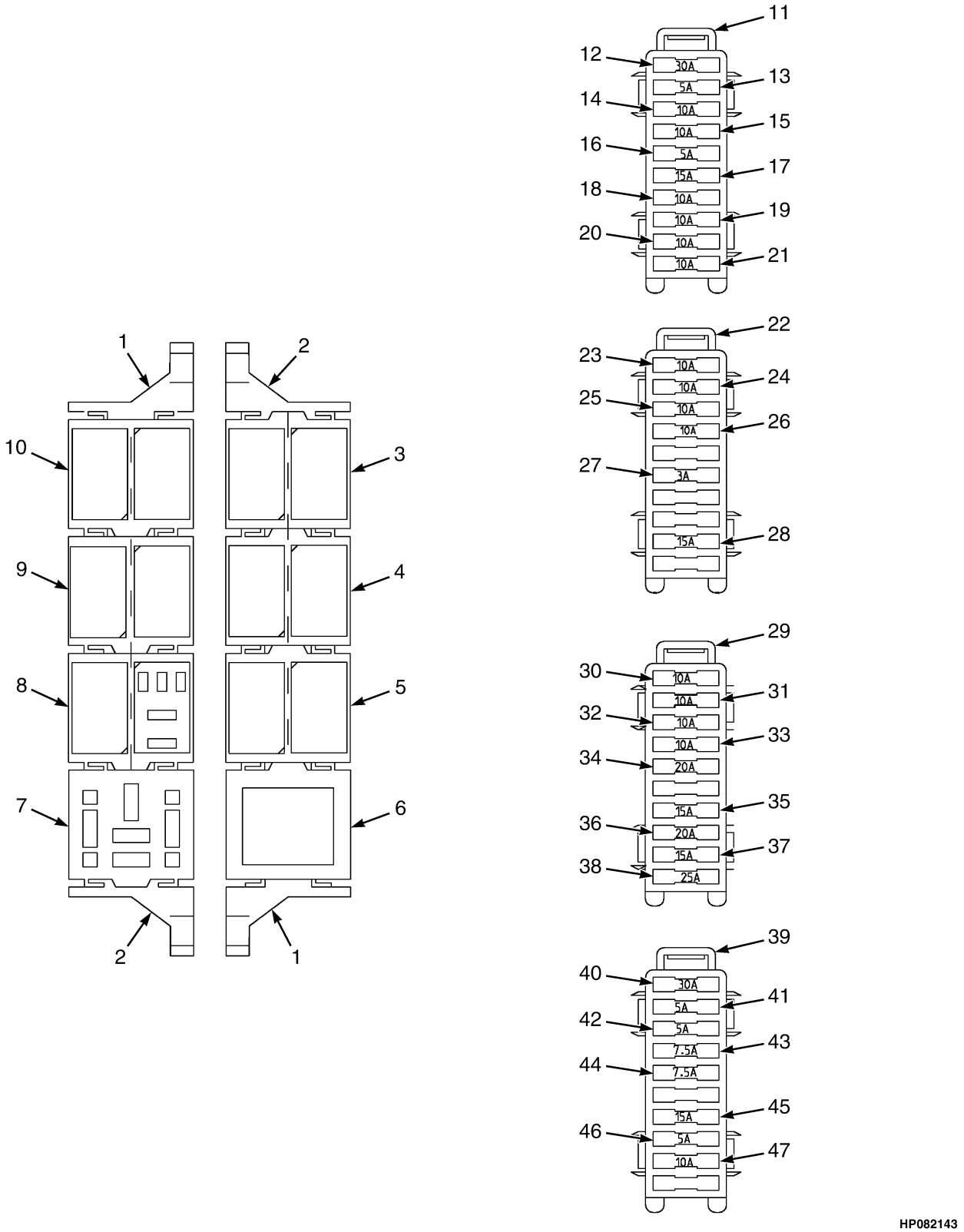
RELAYS AND FUSES (FIGURE 4-29)

OPERATOR COMPARTMENT — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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RELAYS AND FUSES

OPERATOR COMPARTMENT – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4033788	Wire Harness (Cab Side Console)	1
1	1484714	Clip , Side-Mounting	2
2	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	2
3	. . . . .	Relays (CPS62 Main Lights and Flood Lights)	1
3	1484683	Relay (Base)	1
3	1489960	Relay (24 Volt)	2
3	1490249	Connector (1-Way)	4
3	1570602	Terminal (Socket)	4
4	. . . . .	Relays (CPS13 Neutral and Start Inhibit)	1
4	1484683	Relay (Base)	1
4	1489960	Relay (24 Volt)	2
4	1489957	Connector (1-Way)	1
4	1490249	Connector (1-Way)	4
4	1570602	Terminal (Socket)	3
5	. . . . .	Relay (CPS36 Reverse Lights)	1
5	1484683	Relay (Base)	1
5	1489960	Relay (24 Volt)	1
5	1489957	Connector (1-Way)	2
5	1570602	Terminal (Socket)	2
6	. . . . .	Relay (CPS16 Main Power)	1
6	1484684	Single Mini Relay Base	1
6	1610946	Relay (24 Volt, 70 Amp)	1
6	1489957	Connector (1-Way)	2
6	1610952	Terminal	2
7	. . . . .	Flasher Unit (CPS76)	1
7	1484684	Single Mini Relay Base	1
7	1489957	Connector (1-Way)	3
8	. . . . .	Relay (CPS15 Ignition)	1
8	1484683	Relay (Base)	1
8	1489960	Relay (24 Volt)	1
8	1389479	Terminal	2
8	1489957	Connector (1-Way)	1
8	1570602	Terminal (Socket)	1
9	. . . . .	Relays (CPS108 Start Enable and 12V)	1
9	1484683	Relay (Base)	1
9	1489960	Relay (24 Volt)	2
9	1489957	Connector (1-Way)	3
9	1490249	Connector (1-Way)	2
9	1570602	Terminal (Socket)	3
10	. . . . .	Relays (CPS84 Seat Switch and Horn)	1
10	1484683	Relay (Base)	1
10	1489960	Relay (24 Volt)	2
10	1389479	Terminal	2
10	1489957	Connector (1-Way)	4
10	1570602	Terminal (Socket)	2
11	. . . . .	Fuses 11-20 (CPS50)	1
12	1320669	Fuse (30 Amp) (Flood Lights)	1
13	370646	Fuse (5 Amp) (Strobe Light B+)	1
14	370647	Fuse (10 Amp) (Brake Lights)	1
15	370647	Fuse (10 Amp) (Front Drive Lights)	1

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RELAYS AND FUSES

OPERATOR COMPARTMENT – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
16	370646	Fuse (5 Amp) (Interior Lighting)	1
17	1310630	Fuse (15 Amp) (Mast/Attachment Lights)	1
18	370647	Fuse (10 Amp) (Direction Indicators)	1
19	370647	Fuse (10 Amp) (Side/Tail Lights)	1
20	370647	Fuse (10 Amp) (Rear Drive Lights)	1
21	370647	Fuse (10 Amp) (Reverse Lights/Alarm/Strobe)	1
22	. . . . .	Fuses 31-40 (CPS109)	1
23	370647	Fuse (10 Amp) (Power Socket 12V)	1
24	370647	Fuse (10 Amp) (Radio/CB/Intercom)	1
25	370647	Fuse (10 Amp) (Converter For Accessories)	1
26	370647	Fuse (10 Amp) (Hazard Lights)	1
27	1337828	Fuse (3 Amp) (12V Relay)	1
28	1310630	Fuse (15 Amp) (Power Socket 24V)	1
29	. . . . .	Fuses 21-30 (CPS51)	1
30	370647	Fuse (10 Amp) (Front Screen Wash Wipe)	1
31	370647	Fuse (10 Amp) (Roof Screen Wash Wipe)	1
32	370647	Fuse (10 Amp) (Rear Screen Wash Wipe)	1
33	370647	Fuse (10 Amp) (Horn)	1
34	370648	Fuse (20 Amp) (Cab Tilt Power Assist)	1
35	1310630	Fuse (15 Amp) (Seat Suspension Compressor)	1
36	370648	Fuse (20 Amp) (Heater/AC/Ventilation Fan)	1
37	1310630	Fuse (15 Amp) (AC Fan 1)	1
38	1300134	Fuse (25 Amp) (Oil Cooler Fan)	1
39	. . . . .	Fuses 1-10 (CPS37)	1
40	1320669	Fuse (30 Amp) (Engine Start)	1
41	370646	Fuse (5 Amp) (ECM Ignition)	1
42	370646	Fuse (5 Amp) (Ops System)	1
43	1300057	Fuse (7.5 Amp) (Transmission)	1
44	1300057	Fuse (7.5 Amp) (Transmission B+)	1
45	1310630	Fuse (15 Amp) (Attachment Controls)	1
46	370646	Fuse (5 Amp) (Park Brake Solenoid)	1
47	370647	Fuse (10 Amp) (Instrumentation)	1

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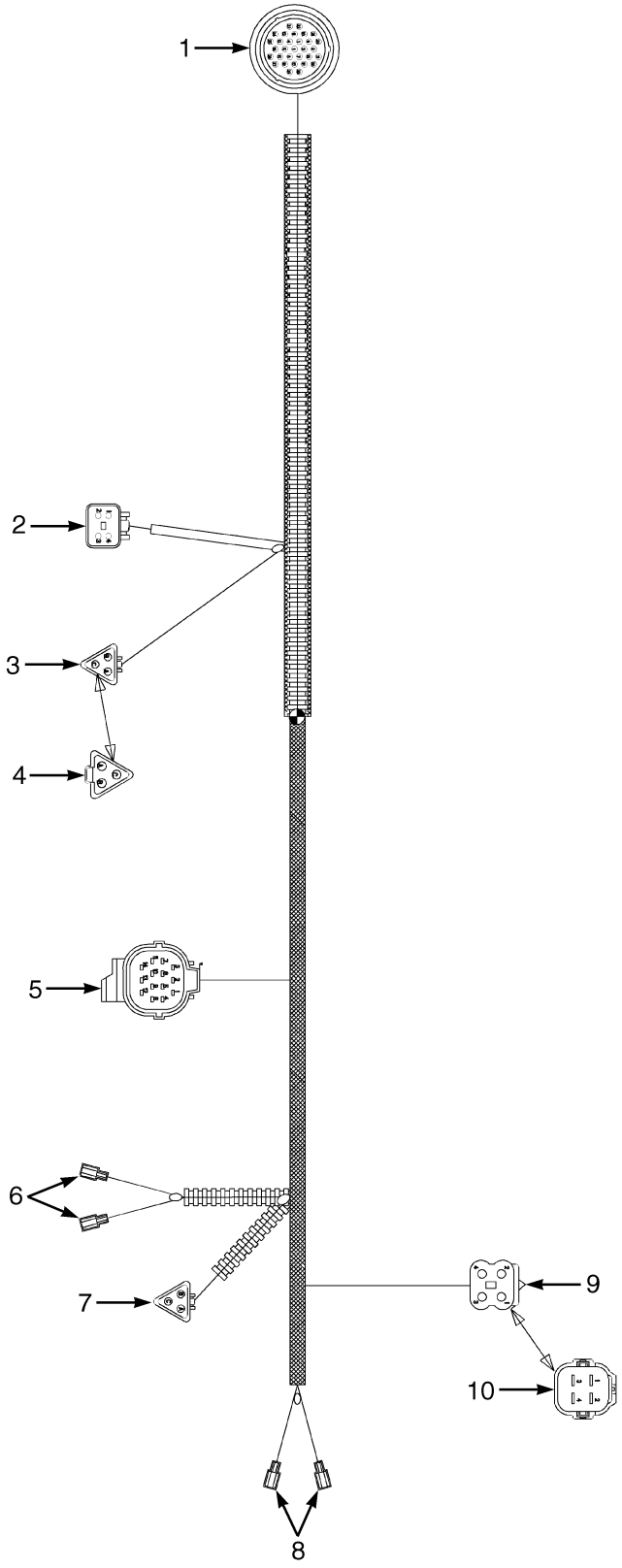
WIRE HARNESS (FIGURE 4-30)
CAB UNDERFLOOR — TIER III ENGINE



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WIRE HARNESS
CAB UNDERFLOOR – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1601825	Wire Harness (Cab Underfloor)	1
1	. . . . .	Connector Assembly (C10 Cab Side Console)	1
1	1484650	Connector (Socket)	1
1	1330438	Terminal (Socket)	21
1	1330439	Plug	7
1	1363886	Terminal (Socket)	1
2	. . . . .	Connector Assembly (C40 Front Wiper)	1
2	1489656	Connector (4-Way)	1
2	1489657	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	4
3	. . . . .	Connector Assembly (C20 Monotrol Pedal)	1
3	1484397	Connector (3-Way)	1
3	1463194	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	3
4	1493466	Connector (3-Way) (Insert)	1
5	. . . . .	Connector Assembly (C60 Steering Column)	1
5	1484654	Connector (14-Way)	1
5	1484655	Retainer (Socket)	1
5	1484656	Terminal (Socket)	14
5	1484597	Seal	14
6	. . . . .	Connector Assembly (C70 Inching Switch)	2
6	1624103	Terminal	1
6	1610947	Receptacle	1
7	. . . . .	Connector Assembly (C100 Inching Pedal)	1
7	1484397	Connector (3-Way)	1
7	1463194	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	3
8	. . . . .	Connector Assembly (C80 Horn)	2
8	1624103	Terminal	1
8	1610947	Receptacle	1
9	. . . . .	Connector Assembly (C120 Horn Diode)	1
9	1610950	Housing (Sealed) (4-Way)	1
9	1484611	Seal (Blanking)	2
9	1484656	Terminal (Socket)	2
9	1484597	Seal	2
10	1610953	Diode (Insert)	1

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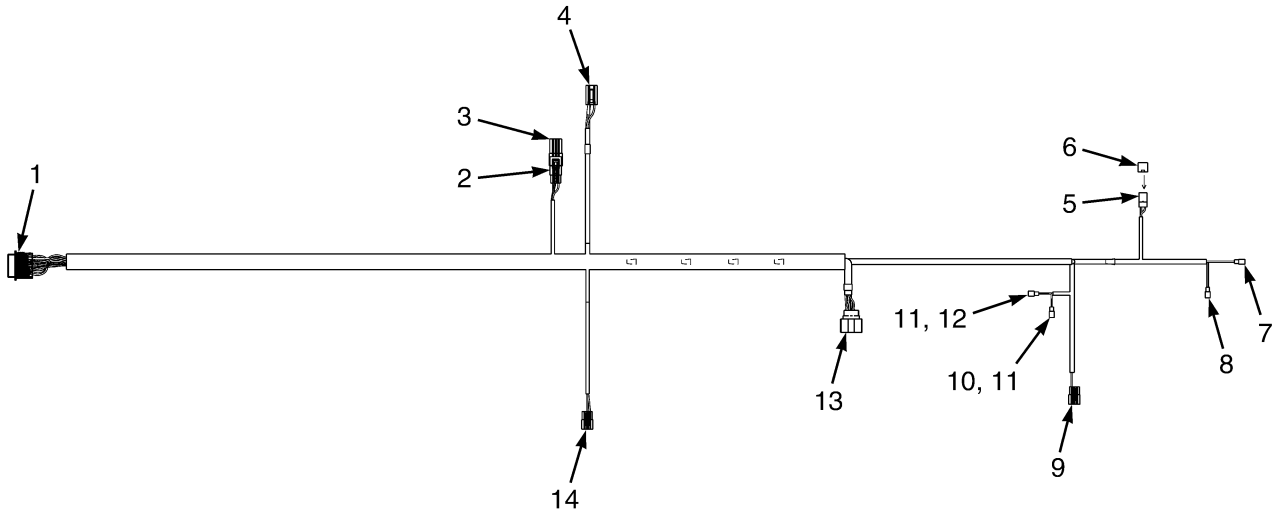
WIRE HARNESS (FIGURE 4-31)
CAB UNDERFLOOR — TIER IV INTERIM ENGINE



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ITEM	PART NO.	DESCRIPTION	QTY
	4023902	Wire Harness (Cab Underfloor)	1
1	. . . . .	Connector Assembly (CRP33 Underfloor-Side Console)	1
1	1484666	Housing	1
1	1484685	Locknut	1
1	1531312	Terminal	1
1	1484686	Washer (Spring)	1
1	1330437	Terminal (Pin)	26
1	1330439	Plug	4
2	. . . . .	Connector Assembly (CPS31 Monotrol Pedal)	1
2	1484397	Connector (3-Way)	1
2	1463194	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	3
3	. . . . .	Connector Assembly (CRP31 Monotrol Pedal)	1
3	1493466	Connector (3-Way)	1
3	1330439	Plug	3
4	. . . . .	Connector Assembly (CPS78 Front Wiper)	1
4	1489656	Connector (4-Way)	1
4	1489657	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	4
5	. . . . .	Connector Assembly (CPS82 Diode Horn)	1
5	1610950	Housing (Sealed) (4-Way)	1
5	1484656	Terminal (Socket)	2
5	1610941	Seal (Dummy)	2
5	1482659	Seal (Rubber)	2
6	. . . . .	Connector Assembly (CRP82 Diode Horn)	1
6	1611029	Diode (1-Way)	1

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ITEM	PART NO.	DESCRIPTION	QTY
7	. . . . .	Connector Assembly (TS69 Horn)	1
7	1484651	Cover	1
7	1484598	Terminal	1
8	. . . . .	Connector Assembly (TS68 Horn)	1
8	1484651	Cover	1
8	1484598	Terminal	1
9	. . . . .	Connector Assembly (CPS32 Inching Pedal)	1
9	1484397	Connector (3-Way)	1
9	1463194	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	3
10	. . . . .	Connector Assembly (TS35 Inching Switch)	1
10	1484651	Cover	1
10	1484598	Terminal	1
11	1529026	Label	2
12	. . . . .	Connector Assembly (TS34 Inching Switch)	1
12	1484651	Cover	1
12	1484598	Terminal	1
13	. . . . .	Connector Assembly (CPS30 Underfloor-Steering Column)	1
13	1484654	Connector (14-Way)	1
13	1484655	Retainer (Socket)	1
13	1484656	Terminal (Socket)	14
13	1484597	Seal	14
14	. . . . .	Connector Assembly (CPS04 Throttle Pedal)	1
14	1484397	Connector (3-Way)	1
14	1463194	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	3

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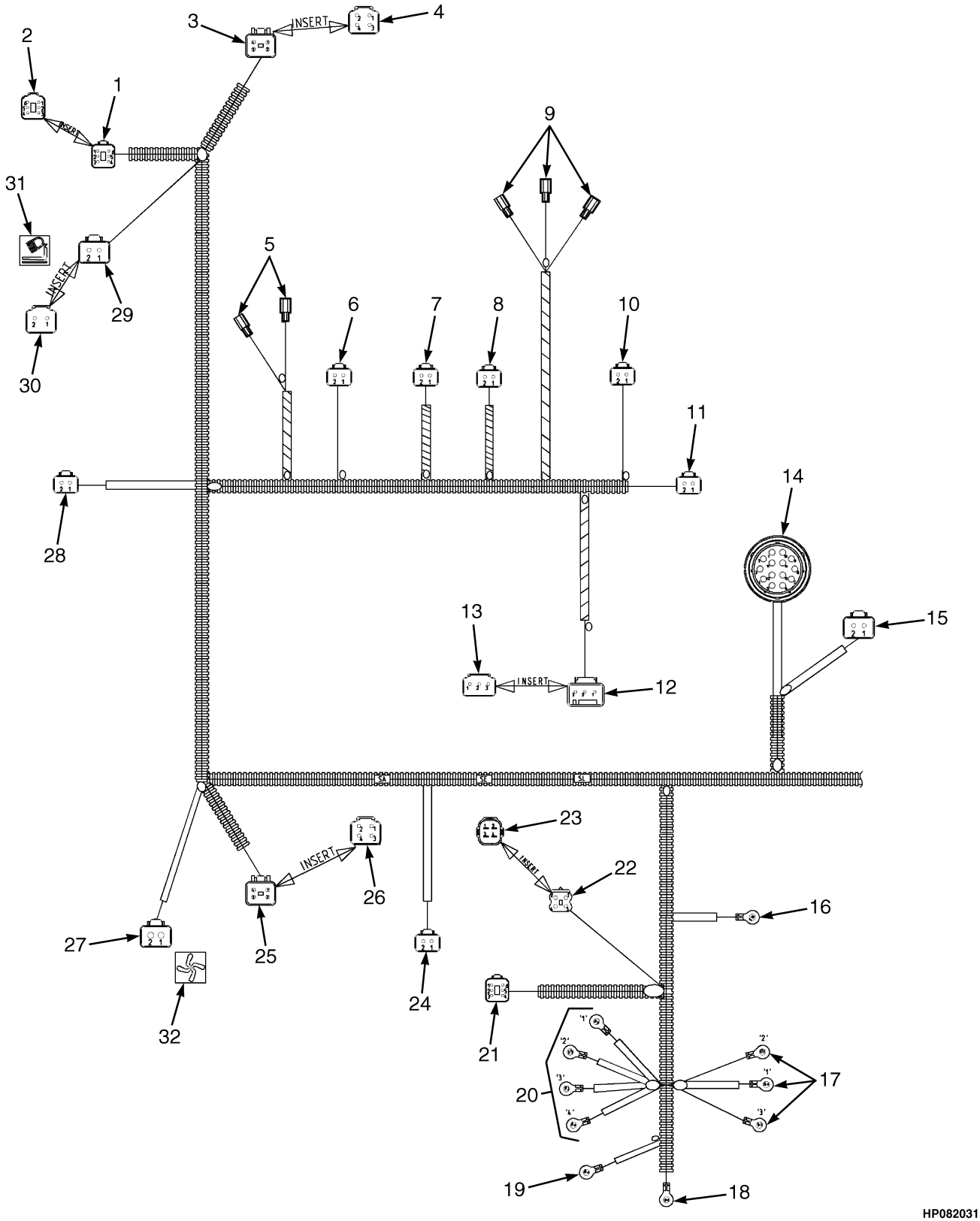
WIRE HARNESS (FIGURE 4-32)

CHASSIS (PAGE 1 OF 2) — TIER III ENGINE (→ S/N B236E01680L)



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WIRE HARNESS

CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	1700344	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (C100 Front End)	1
1	1493430	Connector (6 Way Housing)	1
1	1529052	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	5
2	. . . . .	Connector Assembly (Insert)	1
2	1525589	Connector (6-Pin)	1
2	1330439	Plug	6
3	. . . . .	Connector Assembly (C10 RH Front Lights)	1
3	1489656	Connector (4-Way)	1
3	1489657	Connector (Secondary Lock)	1
3	1363886	Terminal (Socket)	1
3	1330438	Terminal (Socket)	3
4	. . . . .	Connector Assembly (Insert)	1
4	1330439	Plug	4
4	1489655	Connector (4 Way)	1
5	. . . . .	Connector Assembly (C210 Brake Light Switch)	1
5	1624103	Terminal	2
5	1610947	Receptacle	2
6	. . . . .	Connector Assembly (C30 Park Brake Solenoid)	1
6	1490242	Connector (2 Way)	1
6	1490243	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	2
7	. . . . .	Connector Assembly (C40 Lift)	1
7	1490242	Connector (2 Way)	1
7	1490243	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	2
8	. . . . .	Connector Assembly (C35 Low)	1
8	1490242	Connector (2 Way)	1
8	1490243	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	2
9	. . . . .	Connector Assembly (C250 Low Brake Pressure)	1
9	1624103	Terminal	3
9	1610947	Receptacle	3
10	. . . . .	Connector Assembly (C50 Auxiliary B)	1
10	1490242	Connector (2 Way)	1
10	1490243	Connector (Secondary Lock)	1
10	1330438	Terminal (Socket)	2
11	. . . . .	Connector Assembly (C55 Auxiliary A)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	2
12	. . . . .	Connector Assembly (C90 Alternate Idle Sensor)	1
12	1633692	Housing	1
12	1493464	Connector (Secondary Lock)	1
12	1463141	Terminal (Socket)	3
13	. . . . .	Connector Assembly (Insert)	1
13	1484377	Plug	3
13	1463180	Connector (DTM REC 3-Pin)	1
14	. . . . .	Connector Assembly (C80 Valve)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
14	1632868	Connector	1
14	1632869	Socket	14
14	1607771	Boot	1
15	. . . . .	Connector Assembly (C180 Drum Speed)	1
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1
15	1518112	Terminal (Socket)	2
16	. . . . .	Connector Assembly (C130 Master Disconnect)	1
16	1493455	Ring Terminal	1
17	. . . . .	Connector Assembly (C290 Grid Heater Relay)	1
17	1610971	Ring Terminal	1
17	1493448	E-Ring	2
18	. . . . .	Connector Assembly (C115 +24 Volt)	1
18	1610883	Terminal	1
19	. . . . .	Connector Assembly (C145 Fuse Alt)	1
19	1610971	Ring Terminal	1
20	. . . . .	Connector Assembly (C85 Starter Relay)	1
20	1493459	Ring	2
20	1493448	E-Ring	2
21	. . . . .	Connector Assembly (C135 Fuse Box)	1
21	1493430	Connector (6 Way Housing)	1
21	1529052	Connector (Secondary Lock)	1
21	1363886	Terminal (Socket)	4
22	. . . . .	Connector Assembly (C45 Diode)	1
22	1610950	Housing (Sealed) (4-Way)	1
22	1484656	Terminal (Socket)	4
22	1610954	Seal	2
22	1482659	Seal (Rubber)	2
23	. . . . .	Connector Assembly (Insert)	1
23	1610953	Diode	1
24	. . . . .	Connector Assembly (C25 LH Brake Hub Temperature)	1
24	1490242	Connector (2 Way)	1
24	1490243	Connector (Secondary Lock)	1
24	1330438	Terminal (Socket)	2
25	. . . . .	Connector Assembly (C20 LH Front Lights)	1
25	1489656	Connector (4-Way)	1
25	1489657	Connector (Secondary Lock)	1
25	1363886	Terminal (Socket)	1
25	1330438	Terminal (Socket)	3
26	. . . . .	Connector Assembly (Insert)	1
26	1330439	Plug	4
26	1489655	Connector (4 Way)	1
27	. . . . .	Connector Assembly (C240 Hydraulic Oil Cooler)	1
27	1545202	Connector	1
27	1546697	Connector (Secondary Lock)	1
27	1493434	Terminal (Socket)	2
28	. . . . .	Connector Assembly (C15 RH Brake Hub Temperature)	1
28	1490242	Connector (2 Way)	1
28	1490243	Connector (Secondary Lock)	1
28	1330438	Terminal (Socket)	2

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
29	. . . . .	Connector Assembly (C270 Mast Work Light)	1
29	1490242	Connector (2 Way)	1
29	1490243	Connector (Secondary Lock)	1
29	1330438	Terminal (Socket)	2
30	. . . . .	Connector Assembly (Insert)	1
30	1330439	Plug	2
30	1493465	Connector (2 Pin)	1
31	1570643	Label (Mast And Attachment Worklight)	1
32	1607775	Label (Fan Decal)	1

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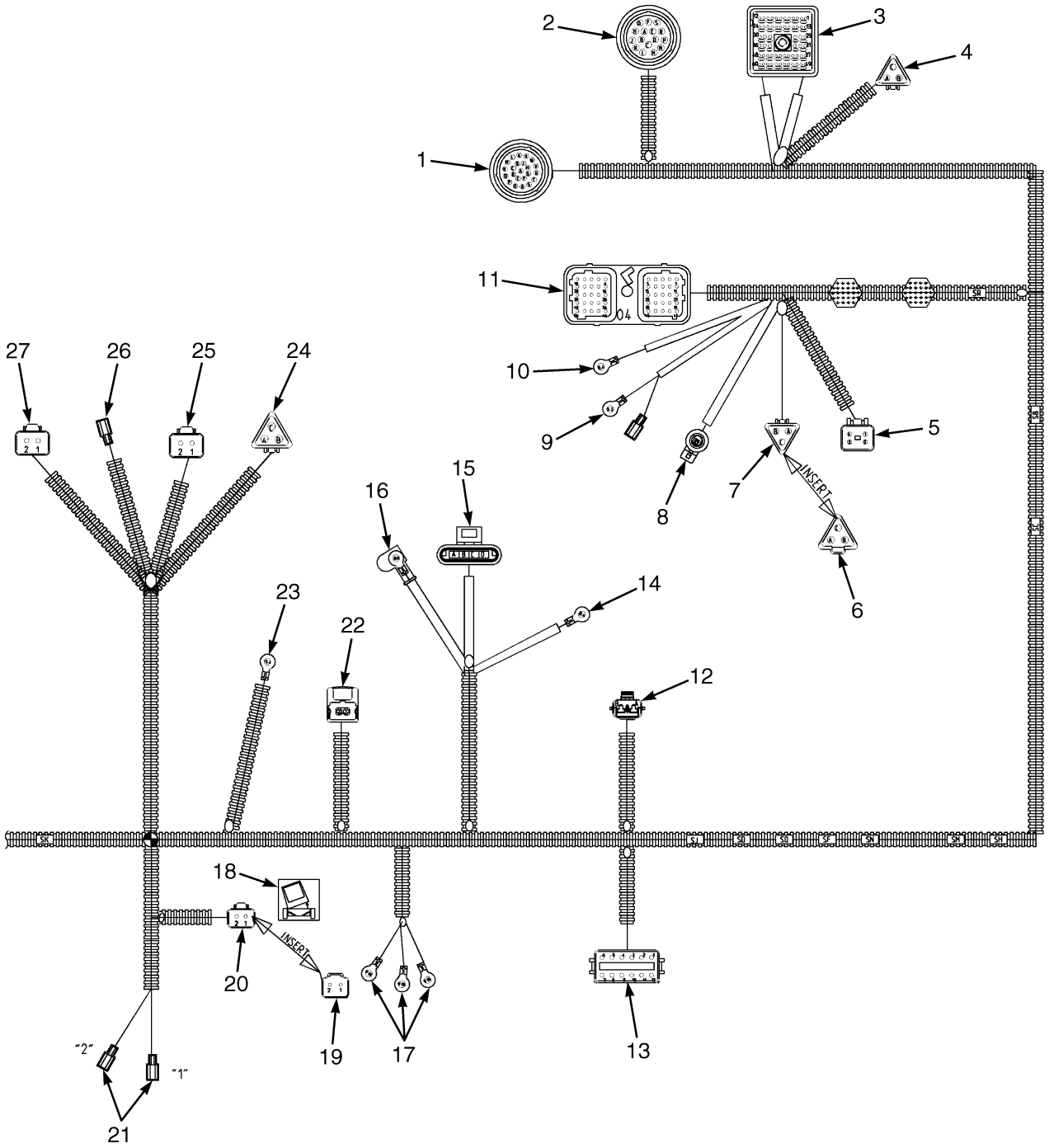
WIRE HARNESS (FIGURE 4-33)

CHASSIS (PAGE 2 OF 2) — TIER III ENGINE (→ S/N B236E01680L)



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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	1700344	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (C405 Attachment Signal)	1
1	1502627	Connector (Socket)	1
1	1363886	Terminal (Socket)	1
1	1330438	Terminal (Socket)	10
2	. . . . .	Connector Assembly (C140 Powertrain Power)	1
2	1493433	Housing (Socket)	1
2	1493434	Terminal (Socket)	15
3	. . . . .	Connector Assembly (C144 Powertrain Signals)	1
3	1493431	Housing (Socket)	1
3	1493432	Retainer (Socket)	1
3	1507725	Terminal	2
3	1463141	Terminal (Socket)	49
4	. . . . .	Connector Assembly (C410 Accelerator Pedal)	1
4	1484397	Connector (3-Way)	1
4	1463194	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	3
5	. . . . .	Connector Assembly (C390 Engine)	1
5	1632865	Connector (DTP PLU 4 Socket)	1
5	1514603	Connector (Secondary Lock)	1
5	1654795	Housing	1
6	. . . . .	Connector Assembly (Insert)	1
6	1607772	Connector (Termination)	1
7	. . . . .	Connector Assembly (C260 Terminating Resistor)	1
7	1484397	Connector (3-Way)	1
7	1610944	Lock	1
7	1518112	Terminal (Socket)	2
8	. . . . .	Connector Assembly (C305 Air Conditioner)	1
8	1659115	Connector	1
8	1659116	Terminal	1
8	1330281	Terminal	1
8	1323579	Seal	1
9	. . . . .	Connector Assembly (C170 Engine Oil Pressure)	1
9	1493448	E-Ring	1
9	1624103	Terminal	1
9	1610947	Receptacle	1
10	. . . . .	Connector Assembly (C147 Grid Heater)	1
10	1610970	Ring Terminal	1
11	. . . . .	Connector Assembly (C400 ECM)	1
11	1632864	Housing	1
11	1507725	Terminal	8
12	. . . . .	Connector Assembly (C215 Coolant Level)	1
12	1329152	Plug	1
12	1330281	Terminal	2
12	1402888	Seal (Purple)	2
13	. . . . .	Connector Assembly (C190 Rear Harness)	1
13	1493428	Connector (12-Way)	1
13	1500913	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	9
13	1363886	Terminal (Socket)	2

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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
14	. . . . .	Connector Assembly (C148 Alternator Ground)	1
14	1610970	Ring Terminal	1
15	. . . . .	Connector Assembly (C280 Alternator Signals)	1
15	1501919	Connector	1
15	1482663	Connector	1
15	1330355	Terminal	1
15	1330356	Seal	1
16	. . . . .	Connector Assembly (C146 Alternator VE+)	1
16	1493442	Boot	1
16	1610971	Ring Terminal	1
17	. . . . .	Connector Assembly (C105 Ground)	1
17	1493455	Ring Terminal	2
17	1569985	Terminal (Ring)	1
18	1605545	Label (Cab Tilt Switch) (Cab Tilt)	1
19	. . . . .	Connector Assembly (Insert)	1
19	1493465	Connector (2 Pin)	1
19	1330439	Plug	2
20	. . . . .	Connector Assembly (C230 Cab Tilt Power)	1
20	1490242	Connector (2 Way)	1
20	1490243	Connector (Secondary Lock)	1
20	1363886	Terminal (Socket)	2
21	. . . . .	Connector Assembly (C60 Fuel Sender)	1
21	1624103	Terminal	2
21	1610947	Receptacle	2
22	. . . . .	Connector Assembly (C220 Air Filter)	1
22	1493435	Connector (2-Way)	1
22	1493436	Terminal (Socket)	2
22	1479109	Seal	2
23	. . . . .	Connector Assembly (C110 Starter Solenoid)	1
23	1502921	Ring	1
24	. . . . .	Connector Assembly (C120 Engine Speed)	1
24	1484397	Connector (3-Way)	1
24	1463194	Connector (Secondary Lock)	1
24	1518112	Terminal (Socket)	3
25	. . . . .	Connector Assembly (C160 Turbine Speed)	1
25	1490242	Connector (2 Way)	1
25	1490243	Connector (Secondary Lock)	1
25	1518112	Terminal (Socket)	2
26	. . . . .	Connector Assembly (C70 Transmission Temperature Switch)	1
26	1624103	Terminal	1
26	1610947	Receptacle	1
27	. . . . .	Connector Assembly (C150 Output Speed)	1
27	1490242	Connector (2 Way)	1
27	1490243	Connector (Secondary Lock)	1
27	1518112	Terminal (Socket)	1

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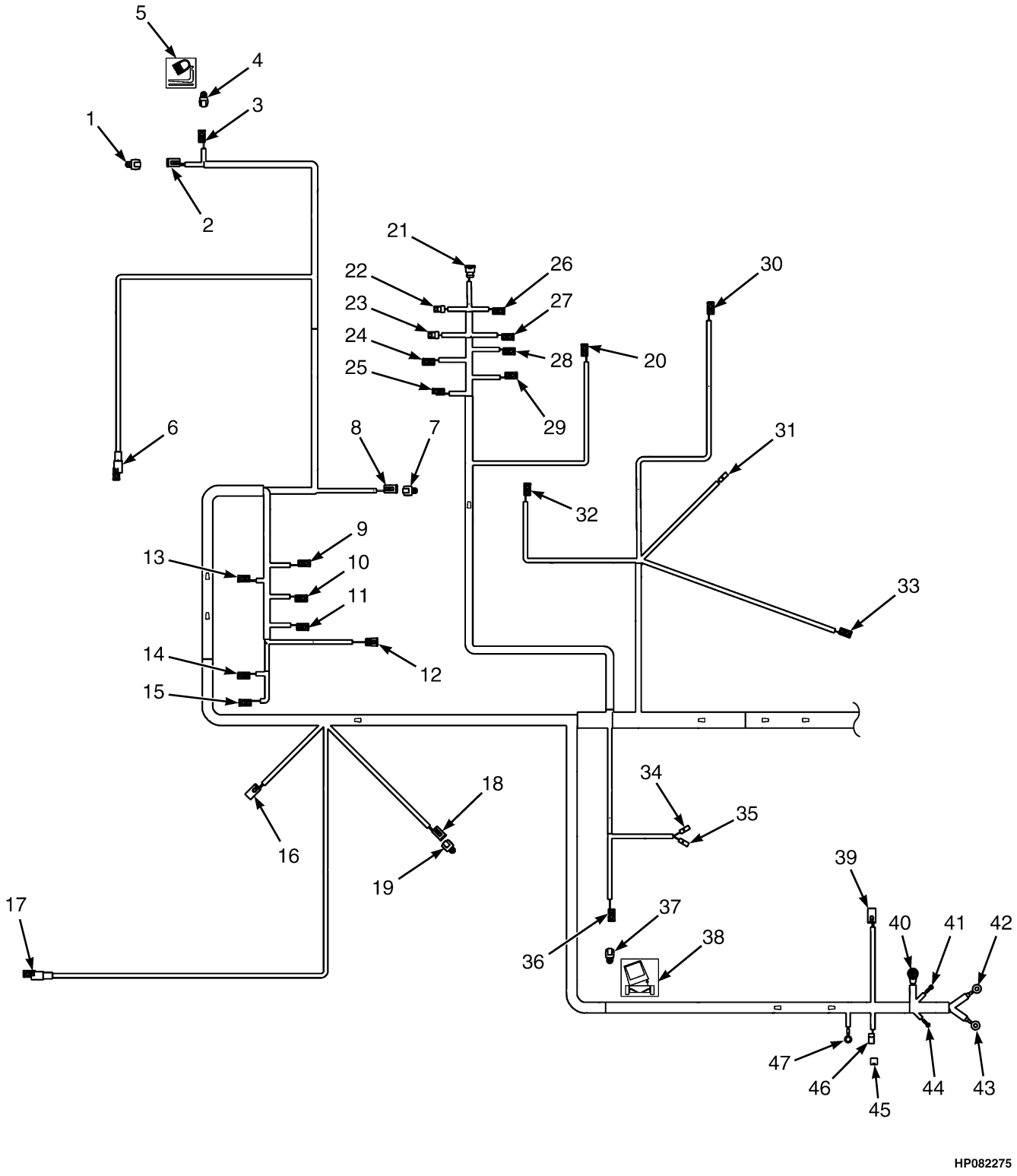
WIRE HARNESS (FIGURE 4-34)

CHASSIS (PAGE 1 OF 2) — TIER III ENGINE (S/N B236E01681L ↔ 11/2014)



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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
	4064555	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CRP164 Frame-Mast)	1
1	4036873	Cap (6 Way)	1
2	. . . . .	Connector Assembly (CPS164 Frame-Mast)	1
2	1493430	Connector (6 Way Housing)	1
2	1330438	Terminal (Socket)	5
2	1330439	Plug	1
3	. . . . .	Connector Assembly (CPS124 Frame-Mast Lights)	1
3	1490242	Connector (2 Way)	1
3	1490243	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	2
4	. . . . .	Connector Assembly (CRP124 Frame-Mast Lights)	1
4	4035905	Cap	1
5	1570643	Label (Mast And Attachment Worklight)	1
6	. . . . .	Connector Assembly (CPS87 Hub Temp Switch)	1
6	1490242	Connector (2 Way)	1
6	1490243	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	2
6	4027973	Boot	1
7	. . . . .	Connector Assembly (CRP61 Frame-RH Front Lights)	1
7	4036523	Cap	1
8	. . . . .	Connector Assembly (CPS61 Frame-RH Front Lights)	1
8	1489656	Connector (4-Way)	1
8	1489657	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	4
9	. . . . .	Connector Assembly (CPS127 Brake Light)	1
9	1490242	Connector (2 Way)	1
9	1490243	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	2
10	. . . . .	Connector Assembly (CPS103 Lift Solenoid 1)	1
10	1490242	Connector (2 Way)	1
10	1490243	Connector (Secondary Lock)	1
10	1330438	Terminal (Socket)	2
11	. . . . .	Connector Assembly (CPS104 Lift Solenoid 2)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	1
12	. . . . .	Connector Assembly (CPS18 Brake Pressure Switch)	1
12	1484397	Connector (3-Way)	1
12	1463194	Connector (Secondary Lock)	1
12	1330438	Terminal (Socket)	1
13	. . . . .	Connector Assembly (CPS98 Park Brake Solenoid)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS102 Tilt Solenoid)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS101 Auxiliary Solenoid)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	2
16	. . . . .	Connector Assembly (CPS174 Hydraulic Cooler)	1
16	1545202	Connector	1
16	1546697	Connector (Secondary Lock)	1
16	1493434	Terminal (Socket)	2
17	. . . . .	Connector Assembly (CPS88 Hub Temperature Switch)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2
17	4027973	Boot	1
18	. . . . .	Connector Assembly (CPS60 Frame-LH Front Lights)	1
18	1489656	Connector (4-Way)	1
18	1489657	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	4
19	. . . . .	Connector Assembly (CRP60 Frame-LH Front Lights)	1
19	4036523	Cap	1
20	. . . . .	Connector Assembly (CPS25 Drum Speed)	1
20	1490242	Connector (2 Way)	1
20	1490243	Connector (Secondary Lock)	1
20	1518112	Terminal (Socket)	2
21	. . . . .	Connector Assembly (CRP09 Sump Temperature)	1
21	1479108	Connector	1
21	1479107	Terminal	2
22	. . . . .	Connector Assembly (CRP11 2nd P Sensor)	1
22	1327957	Connector (E-Fitting Connector Plug)	1
22	1532571	Terminal	3
23	. . . . .	Connector Assembly (CRP10 1st/3rd P Sensor)	1
23	1327957	Connector (E-Fitting Connector Plug)	1
23	1532571	Terminal	3
24	. . . . .	Connector Assembly (CPS137 1st/3rd Select)	1
24	1490242	Connector (2 Way)	1
24	1490243	Connector (Secondary Lock)	1
24	1330438	Terminal (Socket)	2
25	. . . . .	Connector Assembly (CPS129 Fwd Selector)	1
25	1490242	Connector (2 Way)	1
25	1490243	Connector (Secondary Lock)	1
25	1330438	Terminal (Socket)	2
26	. . . . .	Connector Assembly (CPS134 2nd Prop)	1
26	1490242	Connector (2 Way)	1
26	1490243	Connector (Secondary Lock)	1
26	1330438	Terminal (Socket)	2
27	. . . . .	Connector Assembly (CPS133 Fwd/Rev Prop)	1
27	1490242	Connector (2 Way)	1
27	1490243	Connector (Secondary Lock)	1
27	1330438	Terminal (Socket)	2
28	. . . . .	Connector Assembly (CPS136 1st/3rd Prop)	1
28	1490242	Connector (2 Way)	1
28	1490243	Connector (Secondary Lock)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
28	1330438	Terminal (Socket)	2
29	. . . . .	Connector Assembly (CPS132 Rev Selector)	1
29	1490242	Connector (2 Way)	1
29	1490243	Connector (Secondary Lock)	1
29	1330438	Terminal (Socket)	2
30	. . . . .	Connector Assembly (CPS139 Engine Speed)	1
30	1490242	Connector (2 Way)	1
30	1490243	Connector (Secondary Lock)	1
30	1330438	Terminal (Socket)	2
31	. . . . .	Connector Assembly (TS27 Transmission Temperature Switch)	1
31	1610947	Receptacle	1
31	1624103	Terminal	1
32	. . . . .	Connector Assembly (CPS24 Output Speed)	1
32	1490242	Connector (2 Way)	1
32	1490243	Connector (Secondary Lock)	1
32	1330438	Terminal (Socket)	2
33	. . . . .	Connector Assembly (CPS26 Turbine Speed)	1
33	1490242	Connector (2 Way)	1
33	1490243	Connector (Secondary Lock)	1
33	1518112	Terminal (Socket)	2
34	. . . . .	Connector Assembly (TS77 Fuel Sender)	1
34	1610947	Receptacle	1
34	1624103	Terminal	1
35	. . . . .	Connector Assembly (TS76 Fuel Sender+)	1
35	1610947	Receptacle	1
35	1624103	Terminal	1
36	. . . . .	Connector Assembly (CPS12 Frame-Cab Tilt)	1
36	1490242	Connector (2 Way)	1
36	1490243	Connector (Secondary Lock)	1
36	1330438	Terminal (Socket)	2
37	. . . . .	Connector Assembly (CRP12 Frame-Cab Tilt)	1
37	4035905	Cap	1
38	1605545	Label (Cab Tilt Switch)	1
39	. . . . .	Connector Assembly (CPS55 Frame-Fuse Box)	1
39	1545202	Connector	1
39	1546697	Connector (Secondary Lock)	1
39	1493434	Terminal (Socket)	2
40	. . . . .	Connector Assembly (TS12 Grid Heater Relay)	1
40	1610971	Ring Terminal	1
40	1493442	Boot	1
41	. . . . .	Connector Assembly (TS19 Grid Heater Relay)	1
41	1493448	E-Ring	1
42	. . . . .	Connector Assembly (TS16 Fuse Alternator 100A)	1
42	1610971	Ring Terminal	1
43	. . . . .	Connector Assembly (TS26 Cab Fuse)	1
43	1610971	Ring Terminal	1
44	. . . . .	Connector Assembly (TS20 Grid Heater Relay)	1
44	1493448	E-Ring	1
45	. . . . .	Connector Assembly (CRP11 Diode Relays)	1
45	1610953	Diode	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
46	. . . . .	Connector Assembly (CPS11 Diode Relays)	1
46	1610950	Housing (Sealed) (4-Way)	1
46	1482658	Terminal	2
46	1610941	Seal (Dummy)	2
46	1482659	Seal (Rubber)	2
47	. . . . .	Connector Assembly (TS99 ECM Power Connection)	1
47	1692408	Ring Terminal	1

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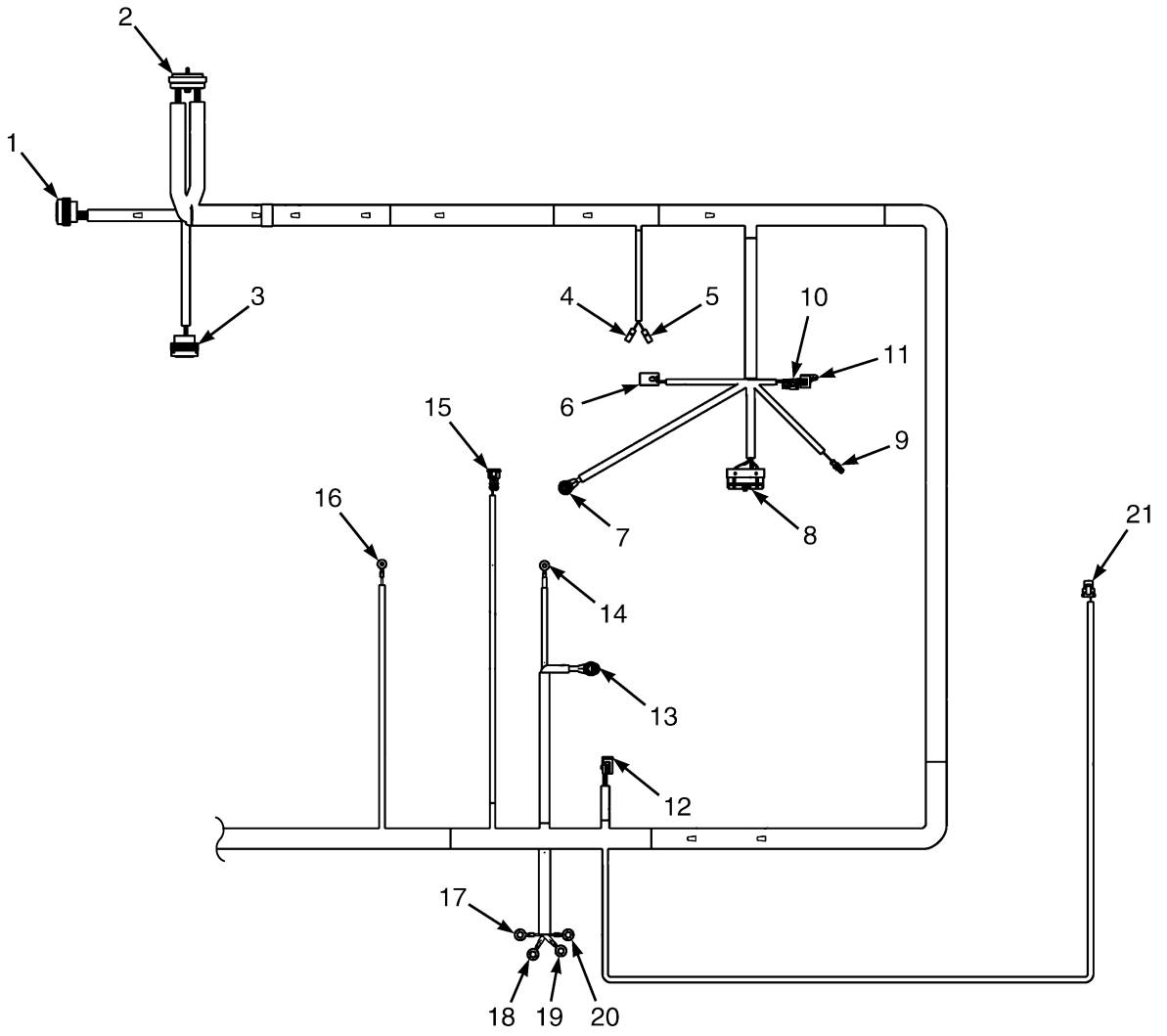
WIRE HARNESS (FIGURE 4-35)

CHASSIS (PAGE 2 OF 2) — TIER III ENGINE (S/N B236E01681L ↔ 11/2014)



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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
	4064555	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS06 Engine Speed)	1
1	1493433	Housing (Socket)	1
1	1493434	Terminal (Socket)	16
2	. . . . .	Connector Assembly (CPS07 Cab Signals)	1
2	1493431	Housing (Socket)	1
2	1493432	Retainer (Socket)	1
2	1463141	Terminal (Socket)	37
2	1484377	Plug	11
2	1330438	Terminal (Socket)	9
2	1330439	Plug	3
3	. . . . .	Connector Assembly (CPS35 Auxiliary Signals)	1
3	1484650	Connector (Socket)	1
3	1330438	Terminal (Socket)	10
3	1330439	Plug	21
4	. . . . .	Connector Assembly (TS09 Engine Oil Pressure)	1
4	1610947	Receptacle	1
4	1624103	Terminal	1
5	. . . . .	Connector Assembly (TS10 Engine Oil Pressure)	1
5	1610947	Receptacle	1
5	1624103	Terminal	1
6	. . . . .	Connector Assembly (CPS03 ECM Power)	1
6	1632865	Connector (DTP PLU 4 Socket)	1
6	1514603	Connector (Secondary Lock)	1
6	1484377	Plug	2
6	1493434	Terminal (Socket)	2
7	. . . . .	Connector Assembly (TS17 Grid Heater)	1
7	1610970	Ring Terminal	1
7	1493442	Boot	1
8	. . . . .	Connector Assembly (CPS02 Engine ECM Signals)	1
8	1632864	Housing	1
8	1484377	Plug	42
8	1507725	Terminal	8
9	. . . . .	Connector Assembly (CRP01 AC-Clutch)	1
9	1659115	Connector	1
9	1659116	Terminal	1
9	1330281	Terminal	1
9	1323579	Seal	1
10	. . . . .	Connector Assembly (CPS05 CAN Termination Resistor)	1
10	1484397	Connector (3-Way)	1
10	1532664	Connector (Secondary Lock)	1
10	1518112	Terminal (Socket)	2
10	1330439	Plug	1
11	. . . . .	Connector Assembly (CRP05 CAN Termination Resistor)	1
11	1607772	Connector (Termination)	1
12	. . . . .	Connector Assembly (CPS131 Frame-Rear)	1
12	1493428	Connector (12-Way)	1
12	1500913	Connector (Secondary Lock)	1
12	1330438	Terminal (Socket)	11
12	1330439	Plug	1

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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
13	. . . . .	Connector Assembly (TS06 Alternator B+)	1
13	1610971	Ring Terminal	1
13	1493442	Boot	1
14	. . . . .	Connector Assembly (TS07 Alternator Ground)	1
14	1610970	Ring Terminal	1
15	. . . . .	Connector Assembly (CPS93 Air Filter)	1
15	1493435	Connector (2-Way)	1
15	1493436	Terminal (Socket)	2
15	1479109	Seal	2
16	. . . . .	Connector Assembly (TS13 Starter Motor Solenoid)	1
16	1502921	Ring	1
17	. . . . .	Connector Assembly (TS01 Ground Frame)	1
17	1569985	Terminal (Ring)	1
18	. . . . .	Connector Assembly (TS14 Ground Starter Motor)	1
18	1493455	Ring Terminal	1
19	. . . . .	Connector Assembly (TS40 Ground Frame)	1
19	1493455	Ring Terminal	1
20	. . . . .	Connector Assembly (TS42 Ground Frame)	1
20	1493455	Ring Terminal	1
21	. . . . .	Connector Assembly (CPS08 Coolant Level)	1
21	1329152	Plug	1
21	1329151	Terminal	1
21	1330281	Terminal	2
21	1491818	Seal	2

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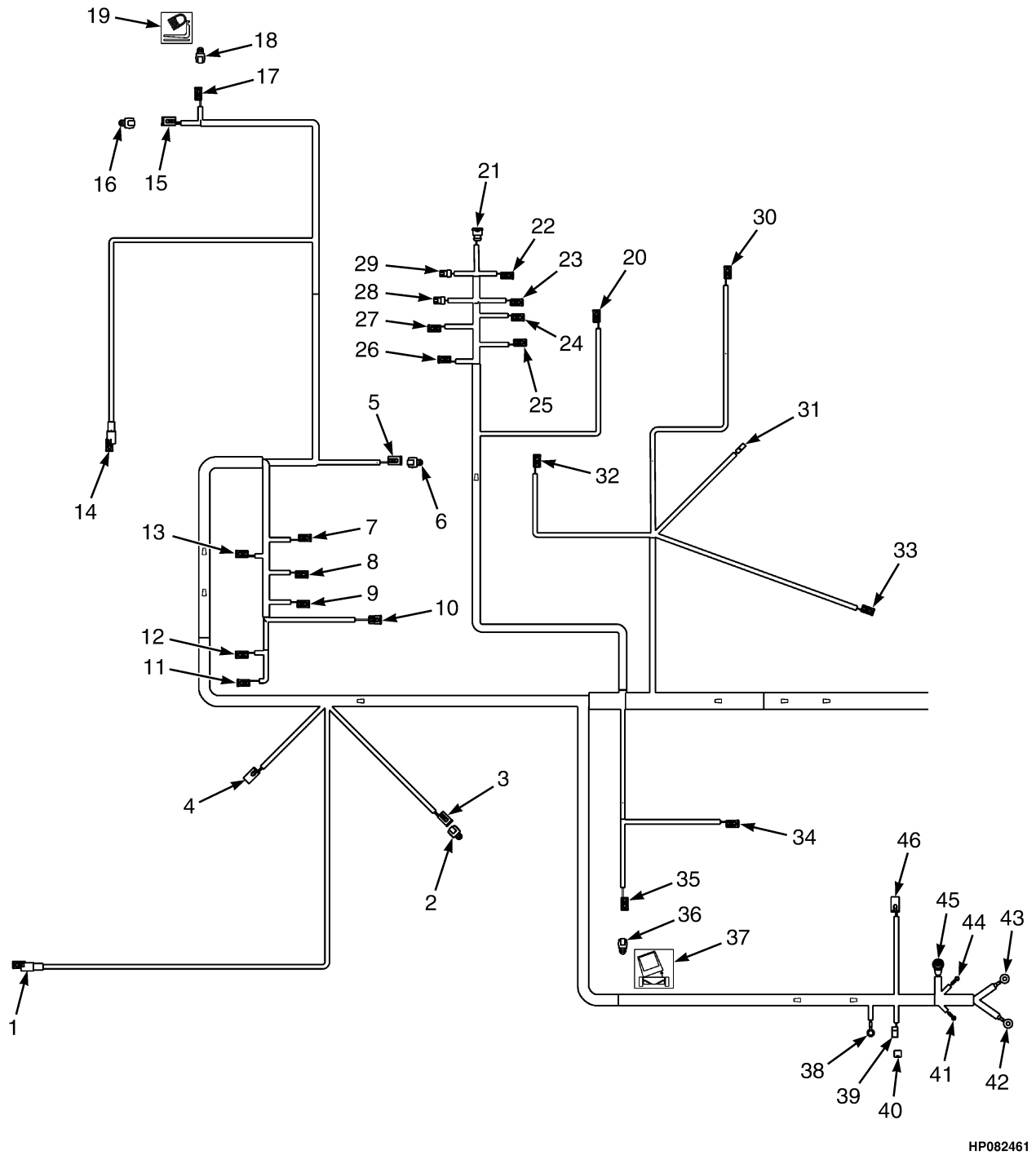
WIRE HARNESS (FIGURE 4-36)

CHASSIS (PAGE 1 OF 2) — TIER III ENGINE (11/2014 →)



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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4119548	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS88 Hub Temperature Switch)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Cap (CRP60 Frame - LH Front Lights)	1
2	4036523	Cap	1
3	. . . . .	Connector Assembly (CPS60 Frame - LH Front Lights)	1
3	1489656	Connector (4-Way)	1
3	1489657	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	4
4	. . . . .	Connector Assembly (CPS174 Hydraulic Cooler)	1
4	1545202	Connector	1
4	1546697	Connector (Secondary Lock)	1
4	1493434	Terminal (Socket)	2
5	. . . . .	Connector Assembly (CSP61 Frame - RH Front Lights)	1
5	1489656	Connector (4-Way)	1
5	1489657	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	4
6	. . . . .	Cap (CRP61 Frame - RH Front Lights)	1
6	4036523	Cap	1
7	. . . . .	Connector Assembly (CPS127 Brake Light)	1
7	1490242	Connector (2 Way)	1
7	1490243	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	2
8	. . . . .	Connector Assembly (CPS103 Lift Solenoid 1)	1
8	1490242	Connector (2 Way)	1
8	1490243	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	2
9	. . . . .	Connector Assembly (CPS104 Lift Solenoid 2)	1
9	1490242	Connector (2 Way)	1
9	1490243	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	2
10	. . . . .	Connector Assembly (CPS18 Brake Pressure Switch)	1
10	1484397	Connector (3-Way)	1
10	1463194	Connector (Secondary Lock)	1
10	1330438	Terminal (Socket)	3
11	. . . . .	Connector Assembly (CPS101 Auxiliary Solenoid)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	2
12	. . . . .	Conenctor Assembly (CPS102 Tilt Solenoid)	1
12	1490242	Connector (2 Way)	1
12	1490243	Connector (Secondary Lock)	1
12	1330438	Terminal (Socket)	2
13	. . . . .	Connector Assembly (CPS98 Park Brake Solenoid)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS87 Hub Temperature Switch)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS164 Frame - Mast)	1
15	1493430	Connector (6 Way Housing)	1
15	1529052	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	5
15	1330439	Plug	1
16	. . . . .	Cap (CRP164 Frame - Mast)	1
16	4036873	Cap (6 Way)	1
17	. . . . .	Connector Assembly (CPS124 Frame - Mast Lights)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2
18	. . . . .	Cap (CRP124 Frame - Mast Lights)	1
18	4035905	Cap	1
19	1570643	Label (Mast And Attachment Worklight)	1
20	. . . . .	Connector Assembly (CPS25 Drum Speed)	1
20	1490242	Connector (2 Way)	1
20	1490243	Connector (Secondary Lock)	1
20	1518112	Terminal (Socket)	2
21	. . . . .	Connector Assembly (CRP09 Sump Temperature)	1
21	1490242	Connector (2 Way)	1
21	1490243	Connector (Secondary Lock)	1
21	1330438	Terminal (Socket)	2
22	. . . . .	Connector Assembly (CPS134 Second Prop)	1
22	1490242	Connector (2 Way)	1
22	1490243	Connector (Secondary Lock)	1
22	1330438	Terminal (Socket)	2
23	. . . . .	Connector Assembly (CPS133 Forward/Reverse Prop)	1
23	1490242	Connector (2 Way)	1
23	1490243	Connector (Secondary Lock)	1
23	1330438	Terminal (Socket)	2
24	. . . . .	Conenctor Assembly (CPS136 First/Third Prop)	1
24	1490242	Connector (2 Way)	1
24	1490243	Connector (Secondary Lock)	1
24	1330438	Terminal (Socket)	2
25	. . . . .	Connector Assembly (CPS132 Reverse Selector)	1
25	1490242	Connector (2 Way)	1
25	1490243	Connector (Secondary Lock)	1
25	1330438	Terminal (Socket)	2
26	. . . . .	Connector Assembly (CPS129 Forward Selector)	1
26	1490242	Connector (2 Way)	1
26	1490243	Connector (Secondary Lock)	1
26	1330438	Terminal (Socket)	2
27	. . . . .	Connector Assembly (CPS137 First/Third Selector)	1
27	1490242	Connector (2 Way)	1
27	1490243	Connector (Secondary Lock)	1
27	1330438	Terminal (Socket)	2
28	. . . . .	Connector Assembly (CRP10 First/Third Sensor)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
28	1327957	Connector (E-Fitting Connector Plug)	1
28	1532571	Terminal	3
29	. . . . .	Connector Assembly (CRP11 Second Sensor)	1
29	1327957	Connector (E-Fitting Connector Plug)	1
29	1532571	Terminal	3
30	. . . . .	Connector Assembly (CPS139 Engine Speed)	1
30	1490242	Connector (2 Way)	1
30	1490243	Connector (Secondary Lock)	1
30	1330438	Terminal (Socket)	2
31	. . . . .	Connector Assembly (TS27 Transmission Temperature Switch)	1
31	1610947	Receptacle	1
31	1624103	Terminal	1
32	. . . . .	Connector Assembly (CPS24 Output Speed)	1
32	1490242	Connector (2 Way)	1
32	1490243	Connector (Secondary Lock)	1
32	1330438	Terminal (Socket)	2
33	. . . . .	Connector Assembly (CPS26 Turbine Speed)	1
33	1490242	Connector (2 Way)	1
33	1490243	Connector (Secondary Lock)	1
33	1518112	Terminal (Socket)	2
34	. . . . .	Connector Assembly (CPS09 Fuel Sender)	1
34	1490242	Connector (2 Way)	1
34	1490243	Connector (Secondary Lock)	1
34	1330438	Terminal (Socket)	2
35	. . . . .	Connector Assembly (CPS12 Frame - Cab Tilt)	1
35	1490242	Connector (2 Way)	1
35	1490243	Connector (Secondary Lock)	1
35	1330438	Terminal (Socket)	2
36	. . . . .	Cap (CRP12 Frame - Cab Tilt)	1
36	4035905	Cap	1
37	1605545	Label (Cab Tilt Switch)	1
38	. . . . .	Ring Terminal (TS99 ECM Power Connection)	1
38	1692408	Ring Terminal	1
39	. . . . .	Connector Assembly (CPS11 Diode Relays)	1
39	1610950	Housing (Sealed) (4-Way)	1
39	1482658	Terminal	2
39	1482659	Seal (Rubber)	2
39	1610941	Seal (Dummy)	2
40	. . . . .	Diode Assy (CRP11 Diode Relays)	1
40	1327957	Connector (E-Fitting Connector Plug)	1
40	1532571	Terminal	3
41	. . . . .	Ring Terminal (TS20 Grid Heater Relay)	1
41	1493448	E-Ring	1
42	. . . . .	Ring Terminal (TS26 Cab Fuse)	1
42	1610971	Ring Terminal	1
43	. . . . .	Ring Terminal (TS16 Fuse Alternator 100A)	1
43	1610971	Ring Terminal	1
44	. . . . .	Ring Terminal (TS19 Grid Heater Relay)	1
44	1493448	E-Ring	1
45	. . . . .	Ring Terminal (TS12 Grid Heater Relay)	1

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CHASSIS (PAGE 1 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
45	1610971	Ring Terminal	1
46	. . . . .	Connector Assembly (CPS55 Frame - Fuse Box)	1
46	1545202	Connector	1
46	1546697	Connector (Secondary Lock)	1
46	1493434	Terminal (Socket)	2

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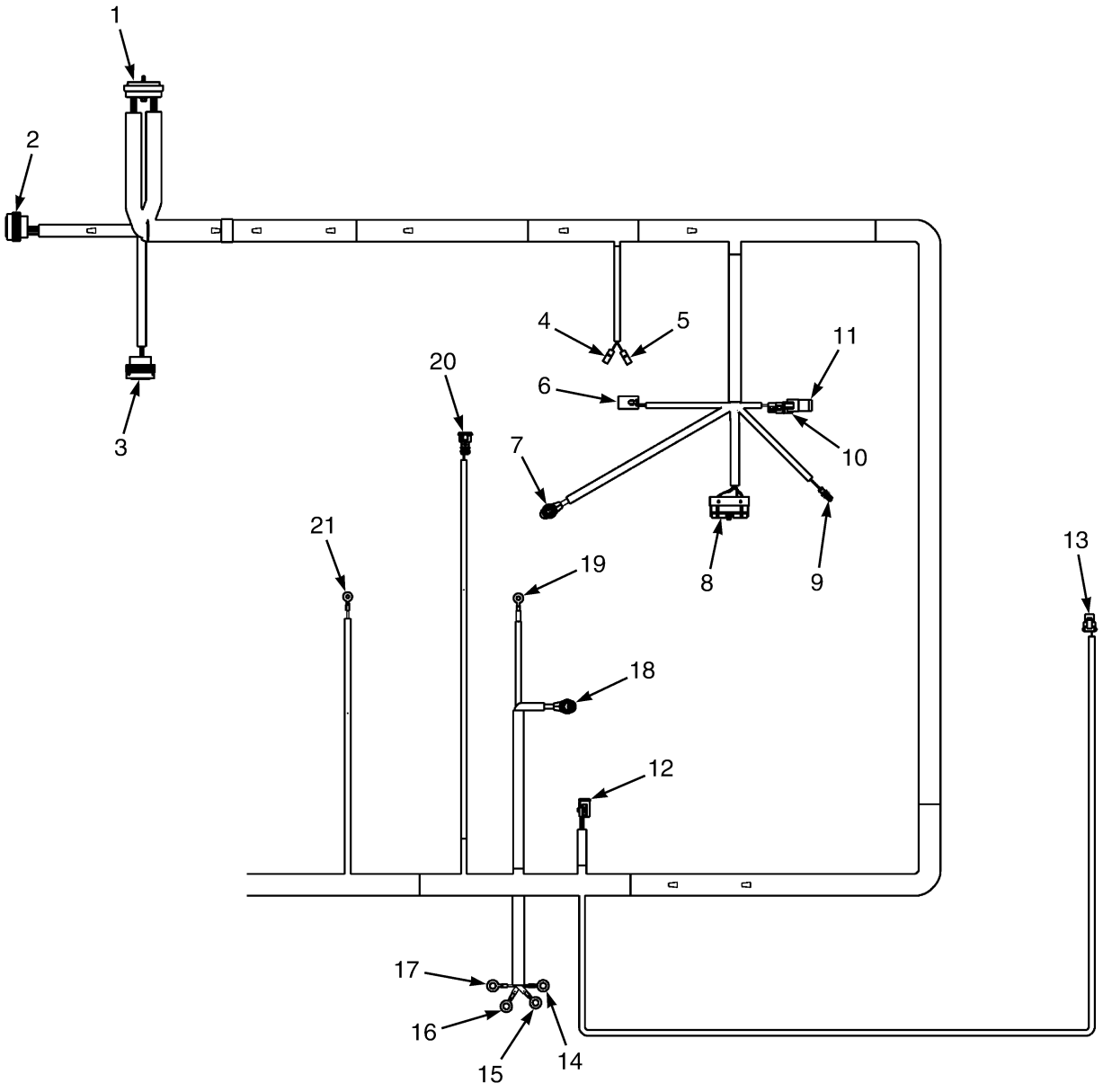
WIRE HARNESS (FIGURE 4-37)

CHASSIS (PAGE 2 OF 2) — TIER III ENGINE (11/2014 →)



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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4119548	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS07 Cab Signals)	1
1	1493431	Housing (Socket)	1
1	1493432	Retainer (Socket)	1
1	1463141	Terminal (Socket)	37
1	1484377	Plug	11
1	1330438	Terminal (Socket)	9
1	1330439	Plug	3
2	. . . . .	Connector Assembly (CPS06 Cab Power)	1
2	1493433	Housing (Socket)	1
2	1493434	Terminal (Socket)	16
3	. . . . .	Connector Assembly (CPS35 Auxiliary Signals)	1
3	1484650	Connector (Socket)	1
3	1330438	Terminal (Socket)	10
3	1330439	Plug	21
4	. . . . .	Connector Assembly (TS09 Engine Oil Pressure)	1
4	1610947	Receptacle	1
4	1624103	Terminal	1
5	. . . . .	Connector Assembly (TS10 Engine Oil Pressure)	1
5	1610947	Receptacle	1
5	1624103	Terminal	1
6	. . . . .	Connector Assembly (CPS03 ECM Power)	1
6	1632865	Connector (DTP PLU 4 Socket)	1
6	1514603	Connector (Secondary Lock)	1
6	1493434	Terminal (Socket)	2
6	1484377	Plug	2
7	. . . . .	Connector Assembly (TS17 Grid Heater)	1
7	1610970	Ring Terminal	1
8	. . . . .	Connector Assembly (CPS02 Engine ECM Signals)	1
8	1632864	Housing	1
8	1484377	Plug	42
8	. . . . .	1507726	8
9	. . . . .	Connector Assembly (CRP01 AC - Clutch)	1
9	1659115	Connector	1
9	1659116	Terminal	1
9	1330281	Terminal	1
9	1323579	Seal	1
10	. . . . .	Connector Assembly (CPS05 CAN Termination Resistor)	1
10	1484397	Connector (3-Way)	1
10	1532664	Connector (Secondary Lock)	1
10	1518112	Terminal (Socket)	2
10	1330439	Plug	1
11	. . . . .	Connector Assembly (CRP05 CAN Termination Resistor)	1
11	1607772	Connector (Termination)	1
12	. . . . .	Connector Assembly (CPS131 Frame - Rear)	1
12	1493428	Connector (12-Way)	1
12	1500913	Connector (Secondary Lock)	1
12	1330438	Terminal (Socket)	11
12	1330439	Plug	1
13	. . . . .	Connector Assembly (CPS08 Coolant Level)	1

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CHASSIS (PAGE 2 OF 2) – TIER III ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
13	1329152	Plug	1
13	1329151	Terminal	1
13	1330281	Terminal	2
13	1491818	Seal	2
14	. . . . .	Ring Terminal (TS42 Ground Frame)	1
14	1493455	Ring Terminal	1
15	. . . . .	Ring Terminal (TS40 Ground Frame)	1
15	1493455	Ring Terminal	1
16	. . . . .	Ring Terminal (TS14 Ground Starter Motor)	1
16	1493455	Ring Terminal	1
17	. . . . .	Ring Terminal (TS01 Ground Frame)	1
17	1569985	Terminal (Ring)	1
18	. . . . .	Ring Terminal (TS06 Alternator B+)	1
18	1610971	Ring Terminal	1
19	. . . . .	Ring Terminal (TS07 Alternator Ground)	1
19	1610970	Ring Terminal	1
20	. . . . .	Connector Assembly (CPS93 Air Filter)	1
20	1493435	Connector (2-Way)	1
20	1493436	Terminal (Socket)	2
20	1479109	Seal	2
21	. . . . .	Ring Terminal (TS13 Starter Motor Solenoid)	1
21	1502921	Ring	1

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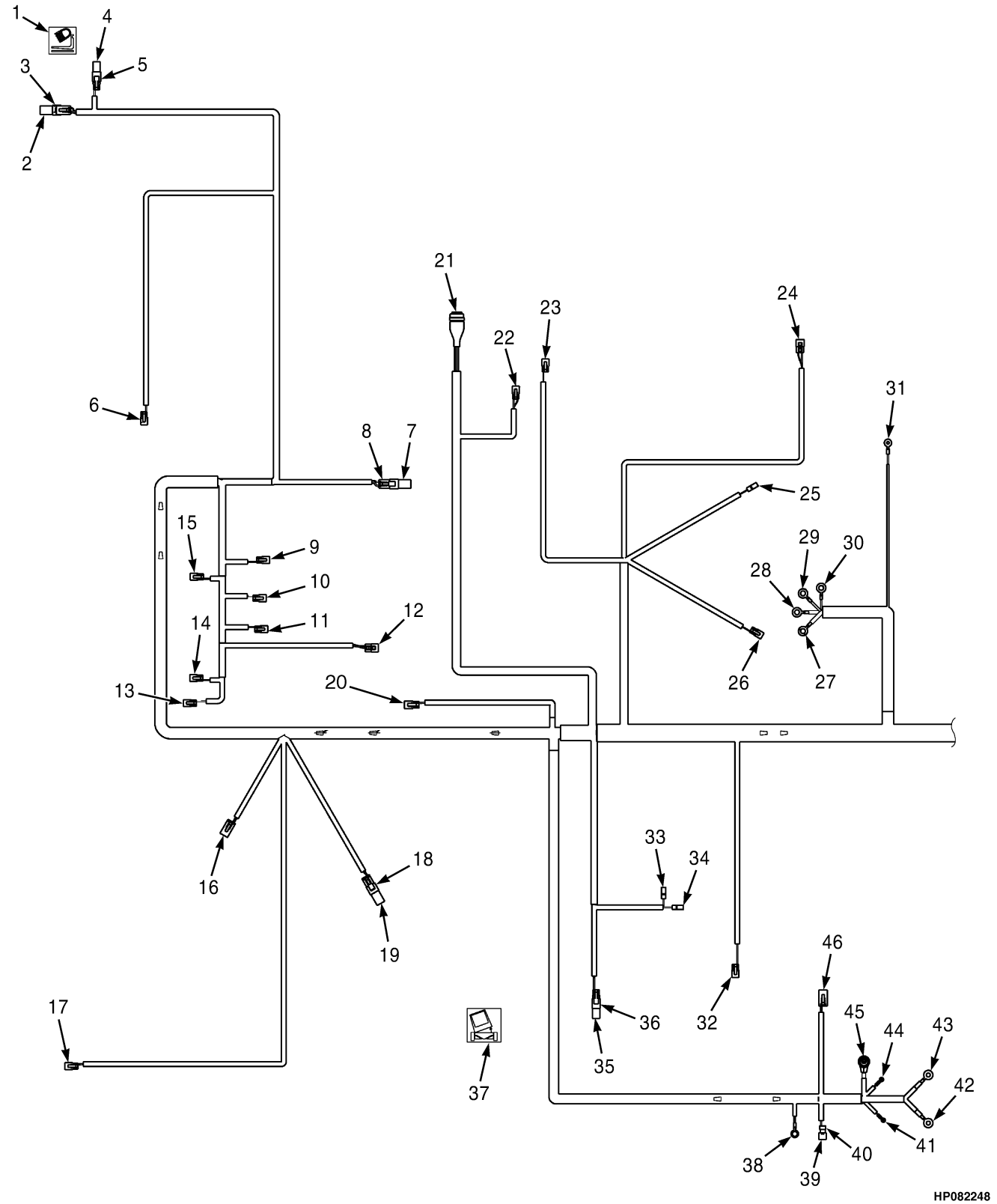
WIRE HARNESS (FIGURE 4-38)

CHASSIS (PAGE 1 OF 2) — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	~~4019382~~		
	4033769	Wire Harness (Chassis)	1
1	1570643	Label (Mast And Attachment Worklight)	1
2	. . . . .	Connector Assembly (CRP164 Frame-Mast)	1
2	1525589	Connector (6-Pin)	1
2	1330439	Plug	6
3	. . . . .	Connector Assembly (CPS164 Frame-Mast)	1
3	1493430	Connector (6 Way Housing)	1
3	1529052	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	5
3	1330439	Plug	1
4	. . . . .	Connector Assembly (CRP124 Frame-Mast Lights)	1
4	1493465	Connector (2 Pin)	1
4	1330439	Plug	2
5	. . . . .	Connector Assembly (CPS124 Frame-Mast Lights)	1
5	1490242	Connector (2 Way)	1
5	1490243	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	2
6	. . . . .	Connector Assembly (CPS87 Hub Temperature Switch)	1
6	1490242	Connector (2 Way)	1
6	1490243	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	2
6	1569972	Label (Brake)	1
6	4027973	Boot	1
7	. . . . .	Connector Assembly (CRP61 Frame-RH Front Lights)	1
7	1489655	Connector (4 Way)	1
7	1330439	Plug	4
8	. . . . .	Connector Assembly (CPS61 Frame-RH Front Lights)	1
8	1489656	Connector (4-Way)	1
8	1489657	Connector (Secondary Lock)	1
8	1493434	Terminal (Socket)	4
9	. . . . .	Connector Assembly (CPS127 Brake Light)	1
9	1490242	Connector (2 Way)	1
9	1490243	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	2
10	. . . . .	Connector Assembly (CPS103 Lift Solenoid 1)	1
10	1490242	Connector (2 Way)	1
10	1490243	Connector (Secondary Lock)	1
10	1330438	Terminal (Socket)	2
11	. . . . .	Connector Assembly (CPS104 Lift Solenoid 2)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	2
12	. . . . .	Connector Assembly (CPS18 Brake Pressure Switch)	1
12	1484397	Connector (3-Way)	1
12	1463194	Connector (Secondary Lock)	1
12	1330438	Terminal (Socket)	3
13	. . . . .	Connector Assembly (CPS101 Auxiliary Solenoid)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS102 Tilt Solenoid)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS98 Park Brake Solenoid)	1
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	2
16	. . . . .	Connector Assembly (CPS174 Hydraulic Cooler)	1
16	1545202	Connector	1
16	1546697	Connector (Secondary Lock)	1
16	1493434	Terminal (Socket)	2
17	. . . . .	Connector Assembly (CPS88 Hub Temperature Switch)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2
17	1569972	Label (Brake)	1
17	4027973	Boot	1
18	. . . . .	Connector Assembly (CPS60 Frame-LH Front Lights)	1
18	1489656	Connector (4-Way)	1
18	1489657	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	4
19	. . . . .	Connector Assembly (CRP60 Frame-LH Front Lights)	1
19	1489655	Connector (4 Way)	1
19	1330439	Plug	4
20	. . . . .	Connector Assembly (CPS72 Second Lift Disable)	1
20	1490242	Connector (2 Way)	1
20	1490243	Connector (Secondary Lock)	1
20	1330438	Terminal (Socket)	2
21	. . . . .	Connector Assembly (CPS22 Transmission Valves)	1
21	1632868	Connector	1
21	1632869	Socket	14
22	. . . . .	Connector Assembly (CPS25 Drum Speed)	1
22	1490242	Connector (2 Way)	1
22	1490243	Connector (Secondary Lock)	1
22	1518112	Terminal (Socket)	2
23	. . . . .	Connector Assembly (CPS24 Output Speed)	1
23	1490242	Connector (2 Way)	1
23	1490243	Connector (Secondary Lock)	1
23	1518112	Terminal (Socket)	2
24	. . . . .	Connector Assembly (CPS23 Engine Speed)	1
24	1484397	Connector (3-Way)	1
24	1463194	Connector (Secondary Lock)	1
24	1518112	Terminal (Socket)	3
25	. . . . .	Connector Assembly (TS27 Transmission Temperature Switch)	1
25	1610947	Receptacle	1
25	1624103	Terminal	1
26	. . . . .	Connector Assembly (CPS26 Turbine Speed)	1
26	1490242	Connector (2 Way)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
26	1490243	Connector (Secondary Lock)	1
26	1518112	Terminal (Socket)	2
27	. . . . .	Connector Assembly (TS40 Ground Frame)	1
27	1493455	Ring Terminal	1
28	. . . . .	Connector Assembly (TS14 Ground Starter Motor)	1
28	1493455	Ring Terminal	1
29	. . . . .	Connector Assembly (TS42 Ground Frame)	1
29	1493455	Ring Terminal	1
30	. . . . .	Connector Assembly (TS01 Ground Frame)	1
30	1569985	Terminal (Ring)	1
31	. . . . .	Connector Assembly (TS13 Starter Motor Solenoid)	1
31	1502921	Ring	1
32	. . . . .	Connector Assembly (CPS80 WIF Sensor)	1
32	1490242	Connector (2 Way)	1
32	1490243	Connector (Secondary Lock)	1
32	1330438	Terminal (Socket)	2
33	. . . . .	Connector Assembly (TS76 Fuel Sender +)	1
33	1610947	Receptacle	1
33	1624103	Terminal	1
34	. . . . .	Connector Assembly (TS77 Fuel Sender -)	1
34	1610947	Receptacle	1
34	1624103	Terminal	1
35	. . . . .	Connector Assembly (CRP12 Frame-Cab Tilt)	1
35	1493465	Connector (2 Pin)	1
35	1330439	Plug	2
36	. . . . .	Connector Assembly (CPS12 Frame-Cab Tilt)	1
36	1490242	Connector (2 Way)	1
36	1490243	Connector (Secondary Lock)	1
36	1330438	Terminal (Socket)	2
37	1605545	Label (Cab Tilt Switch)	1
38	. . . . .	Connector Assembly (TS99 ECM Power Connection)	1
38	1692408	Ring Terminal	1
39	. . . . .	Connector Assembly (CRP11 Diode Relays)	1
39	1610953	Diode	1
40	. . . . .	Connector Assembly (CPS11 Diode Relays)	1
40	1610950	Housing (Sealed) (4-Way)	1
40	1610941	Seal (Dummy)	2
40	1482658	Terminal	2
40	1482659	Seal (Rubber)	2
41	. . . . .	Connector Assembly (TS20 Grid Heater Relay)	1
41	1493448	E-Ring	1
42	. . . . .	Connector Assembly (TS26 Cab Fuse)	1
42	1610971	Ring Terminal	1
43	. . . . .	Connector Assembly (TS16 Fuse Alternator 100A)	1
43	1610971	Ring Terminal	1
44	. . . . .	Connector Assembly (TS19 Grid Heater Relay)	1
44	1493448	E-Ring	1
45	. . . . .	Connector Assembly (TS12 Grid Heater Relay)	1
45	1610971	Ring Terminal	1
46	. . . . .	Connector Assembly (CPS55 Frame-Fuse Box)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
46	1545202	Connector	1
46	1546697	Connector (Secondary Lock)	1
46	1493434	Terminal (Socket)	2

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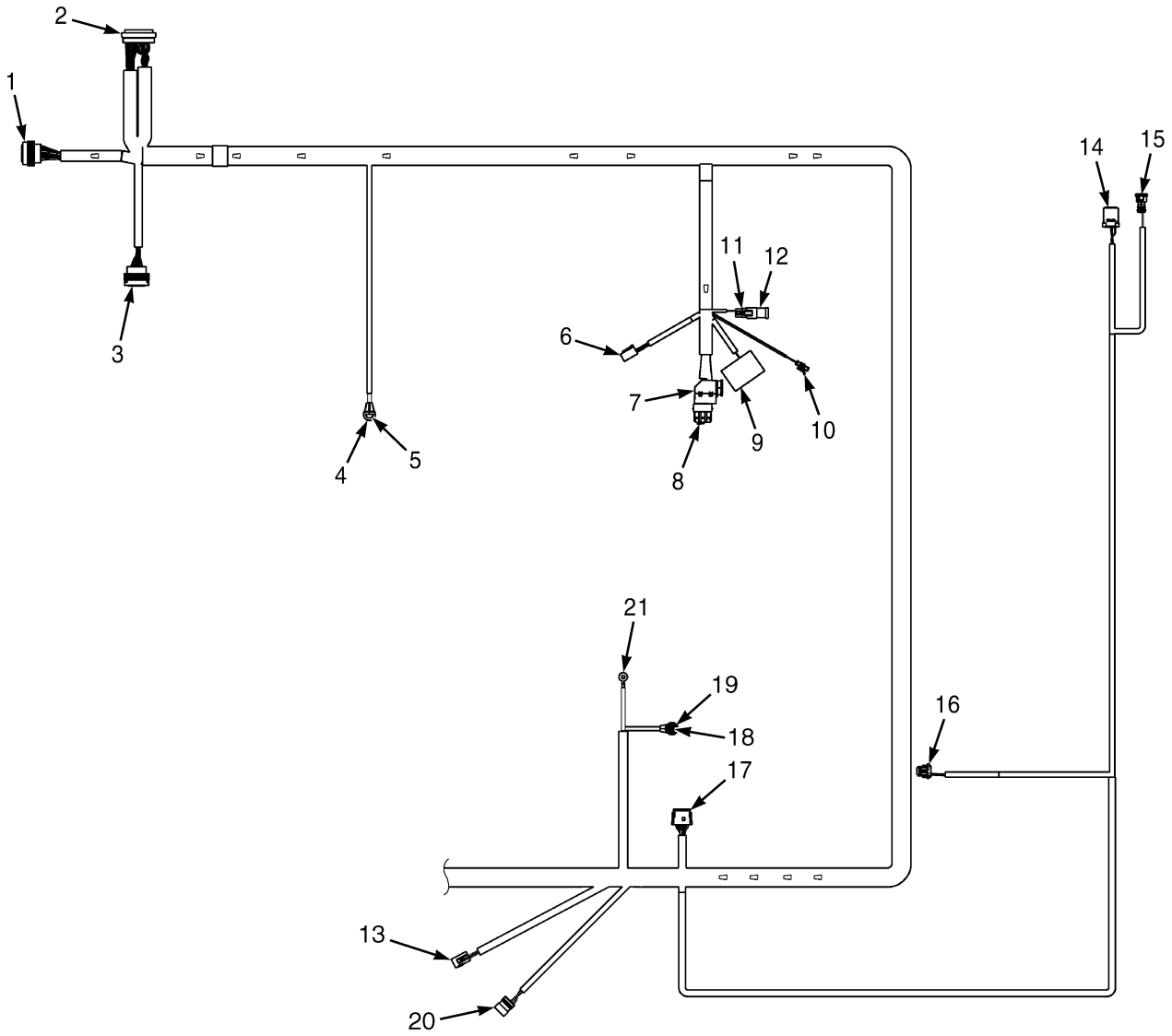
WIRE HARNESS (FIGURE 4-39)

CHASSIS (PAGE 2 OF 2) — TIER IV INTERIM ENGINE (→ S/N B236E01680L)



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CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	~~4019382~~		
	4033769	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS06 Cab Power)	1
1	1493433	Housing (Socket)	1
1	1493434	Terminal (Socket)	16
2	. . . . .	Connector Assembly (CPS07 Cab Signals)	1
2	1493431	Housing (Socket)	1
2	1493432	Retainer (Socket)	1
2	1330438	Terminal (Socket)	10
2	1330439	Plug	2
2	1484377	Plug	5
2	1463141	Terminal (Socket)	43
3	. . . . .	Connector Assembly (CPS35 Auxiliary Signals)	1
3	1484650	Connector (Socket)	1
3	1330438	Terminal (Socket)	14
3	1330439	Plug	17
4	1493442	Boot	1
5	. . . . .	Connector Assembly (TS17 Grid Heater)	1
5	1610970	Ring Terminal	1
6	. . . . .	Connector Assembly (CPS10 Fan Clutch)	1
6	1493430	Connector (6 Way Housing)	1
6	1529052	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	5
6	1330439	Plug	1
7	1664886	Strain Relief	1
8	. . . . .	Connector Assembly (CPS02 Engine ECM Signals)	1
8	1664869	Connector	1
8	1507725	Terminal	35
8	1484377	Plug	25
9	. . . . .	Connector Assembly (CRP03 J4 OEM Breakout)	1
9	4016629	Connector	1
9	4016630	Terminal	4
9	4016631	Plug	8
9	4016632	Plug	12
10	. . . . .	Connector Assembly (CRP01 AC-Clutch)	1
10	1659115	Connector	1
10	1659116	Terminal	1
10	1330281	Terminal	1
10	1323579	Seal	1
11	. . . . .	Connector Assembly (CPS05 CAN Termination Resistor)	1
11	1484397	Connector (3-Way)	1
11	1463194	Connector (Secondary Lock)	1
11	1330439	Plug	1
11	1518112	Terminal (Socket)	2
12	. . . . .	Connector Assembly (CRP05 CAN Termination Resistor)	1
12	1607772	Connector (Termination)	1
13	. . . . .	Connector Assembly (CRP08 WIF Sensor to Engne)	1
13	1502625	Connector (DT PLU 8-Socket)	1
13	1502626	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	8

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CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
14	. . . . .	Connector Assembly (CPS08 TBAP Sensor)	1
14	4010949	Connector	1
14	4010950	Connector	1
14	4010947	Terminal	4
14	4023538	Wire Seal	4
15	. . . . .	Connector Assembly (CPS93 Air Filter)	1
15	1493435	Connector (2-Way)	1
15	1493436	Terminal (Socket)	2
15	1479109	Seal	2
16	. . . . .	Connector Assembly (CPS04 Coolant Level)	1
16	1476067	Connector (M/P 150 PLU 3-Terminal)	1
16	1476109	Connector Lock	1
16	1482664	Connector Body	3
16	1482665	Seal	3
17	. . . . .	Connector Assembly (CPS131 Frame-Rear)	1
17	1493428	Connector (12-Way)	1
17	1500913	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	11
17	1330439	Plug	1
18	. . . . .	Connector Assembly (TS06 Alternator B+)	1
18	1610971	Ring Terminal	1
19	1493442	Boot	1
20	. . . . .	Connector Assembly (CPS09 TBAP Sensor-to-Engine)	1
20	4023537	Connector	1
20	4023539	Terminal	4
21	. . . . .	Connector Assembly (TS07 Alternator Ground)	1
21	1610970	Ring Terminal	1

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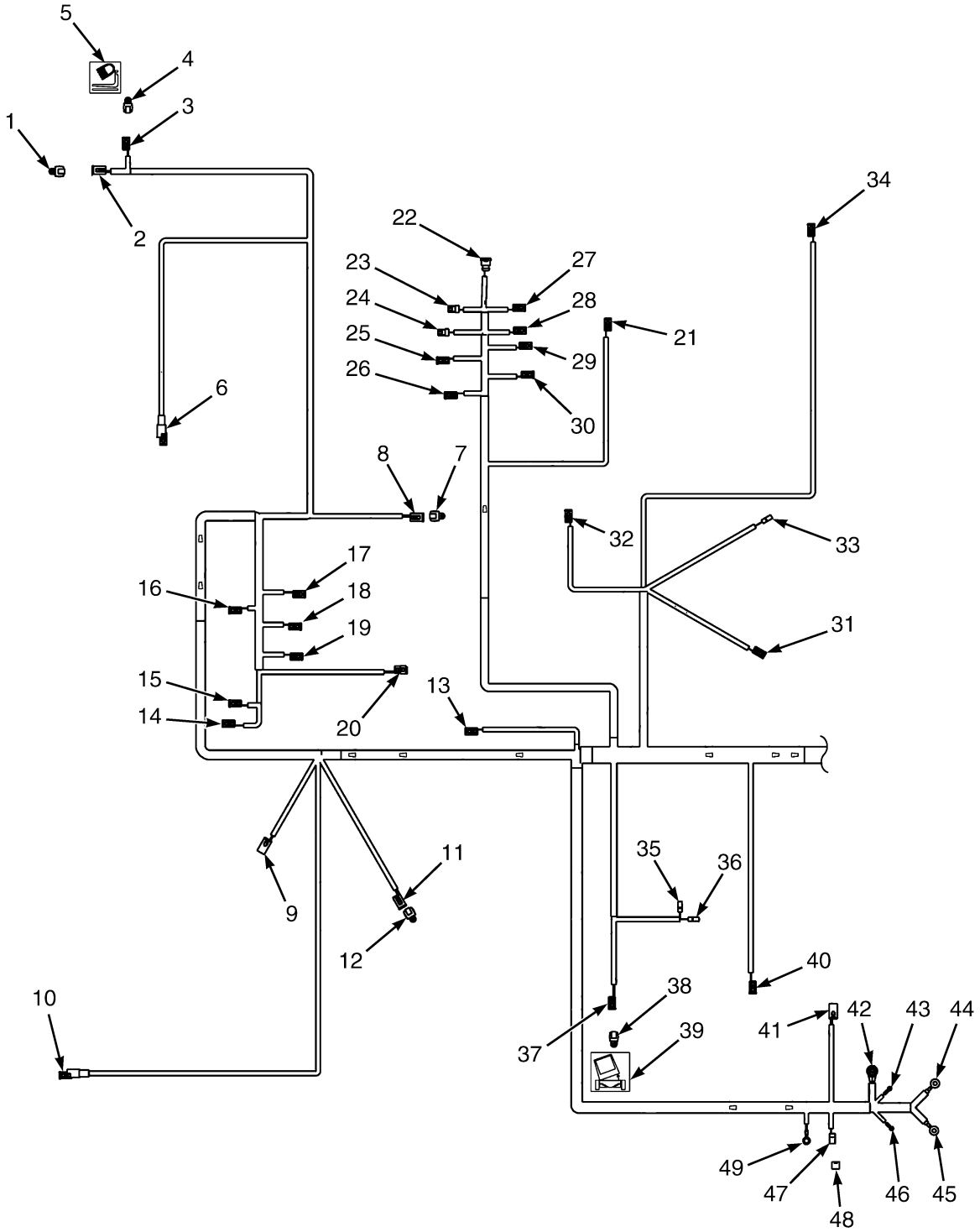
WIRE HARNESS (FIGURE 4-40)

CHASSIS (PAGE 1 OF 2) — TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)



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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
	4060734	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CRP164 Frame-Mast)	1
1	4036873	Cap (6 Way)	1
2	. . . . .	Connector Assembly (CPS164 Frame-Mast)	1
2	1493430	Connector (6 Way Housing)	1
2	1529052	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	5
2	1330439	Plug	1
3	. . . . .	Connector Assembly (CPS124 Frame-Mast Lights)	1
3	1490242	Connector (2 Way)	1
3	1490243	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	2
4	. . . . .	Connector Assembly (CRP124 Frame-Mast Lights)	1
4	4035905	Cap	1
5	1570643	Label (Mast And Attachment Worklight)	1
6	. . . . .	Connector Assembly (CPS87 Hub Temperature Switch)	1
6	1490242	Connector (2 Way)	1
6	4027973	Boot	1
6	1490243	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	2
7	. . . . .	Connector Assembly (CRP61 Frame-RH Front Lights)	1
7	4036523	Cap	1
8	. . . . .	Connector Assembly (CPS61 Frame-RH Front Lights)	1
8	1489656	Connector (4-Way)	1
8	1489657	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	1
9	. . . . .	Connector Assembly (CPS174 Hydraulic Cooler)	1
9	1545202	Connector	1
9	1546697	Connector (Secondary Lock)	1
9	1493434	Terminal (Socket)	2
10	. . . . .	Connector Assembly (CPS88 Hub Temperature Switch)	1
10	1490242	Connector (2 Way)	1
10	4027973	Boot	1
10	1490243	Connector (Secondary Lock)	1
10	1330438	Terminal (Socket)	2
11	. . . . .	Connector Assembly (CPS60 Frame-LH Front Lights)	1
11	1489656	Connector (4-Way)	1
11	1489657	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	4
12	. . . . .	Connector Assembly (CRP60 Frame-LH Front Lights)	1
12	4036523	Cap	1
13	. . . . .	Connector Assembly (CPS72 2nd Lift Disable)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS101 Auxiliary Solenoid)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS102 Tilt Solenoid)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	2
16	. . . . .	Connector Assembly (CPS98 Park Brake Solenoid)	1
16	1490242	Connector (2 Way)	1
16	1490243	Connector (Secondary Lock)	1
16	1330438	Terminal (Socket)	2
17	. . . . .	Connector Assembly (CPS127 Brake Light)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2
18	. . . . .	Connector Assembly (CPS103 Lift Solenoid 1)	1
18	1490242	Connector (2 Way)	1
18	1490243	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	2
19	. . . . .	Connector Assembly (CPS104 Lift Solenoid 2)	1
19	1490242	Connector (2 Way)	1
19	1490243	Connector (Secondary Lock)	1
19	1330438	Terminal (Socket)	2
20	. . . . .	Connector Assembly (CPS18 Brake Pressure Switch)	1
20	1484397	Connector (3-Way)	1
20	1463194	Connector (Secondary Lock)	1
20	1330438	Terminal (Socket)	3
21	. . . . .	Connector Assembly (CPS25 Drum Speed)	1
21	1490242	Connector (2 Way)	1
21	1490243	Connector (Secondary Lock)	1
21	1518112	Terminal (Socket)	2
22	. . . . .	Connector Assembly (CRP09 Sump Temperature)	1
22	1479108	Connector	1
22	1479107	Terminal	2
23	. . . . .	Connector Assembly (CRP13 2nd P Sensor)	1
23	1327957	Connector (E-Fitting Connector Plug)	1
23	1532571	Terminal	3
24	. . . . .	Connector Assembly (CRP10 1st/3rd P Sensor)	1
24	1327957	Connector (E-Fitting Connector Plug)	1
24	1532571	Terminal	3
25	. . . . .	Connector Assembly (CPS137 1st/3rd Select)	1
25	1490242	Connector (2 Way)	1
25	1490243	Connector (Secondary Lock)	1
25	1330438	Terminal (Socket)	2
26	. . . . .	Connector Assembly (CPS129 Fwd Selector)	1
26	1490242	Connector (2 Way)	1
26	1490243	Connector (Secondary Lock)	1
26	1330438	Terminal (Socket)	2
27	. . . . .	Connector Assembly (CPS134 2nd Prop)	1
27	1490242	Connector (2 Way)	1
27	1490243	Connector (Secondary Lock)	1
27	1330438	Terminal (Socket)	2
28	. . . . .	Connector Assembly (CPS133 Fwd/Rev Prop)	1
28	1490242	Connector (2 Way)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
28	1490243	Connector (Secondary Lock)	1
28	1330438	Terminal (Socket)	2
29	. . . . .	Connector Assembly (CPS136 1st/3rd Prop)	1
29	1490242	Connector (2 Way)	1
29	1490243	Connector (Secondary Lock)	1
29	1330438	Terminal (Socket)	2
30	. . . . .	Connector Assembly (CPS132 Rev Selector)	1
30	1490242	Connector (2 Way)	1
30	1490243	Connector (Secondary Lock)	1
30	1330438	Terminal (Socket)	2
31	. . . . .	Connector Assembly (CPS26 Turbine Speed)	1
31	1490242	Connector (2 Way)	1
31	1490243	Connector (Secondary Lock)	1
31	4016632	Plug	2
32	. . . . .	Connector Assembly (CPS24 Output Speed)	1
32	1490242	Connector (2 Way)	1
32	1490243	Connector (Secondary Lock)	1
32	4016632	Plug	2
33	. . . . .	Connector Assembly (TS27 Transmission Temperature Switch)	1
33	1610947	Receptacle	1
33	1624103	Terminal	1
34	. . . . .	Connector Assembly (CPS139 Engine Speed)	1
34	1490242	Connector (2 Way)	1
34	1490243	Connector (Secondary Lock)	1
34	1330438	Terminal (Socket)	2
35	. . . . .	Connector Assembly (TS76 Fuel Sender+)	1
35	1610947	Receptacle	1
35	1624103	Terminal	1
36	. . . . .	Connector Assembly (TS77 Fuel Sender-)	1
36	1610947	Receptacle	1
36	1624103	Terminal	1
37	. . . . .	Connector Assembly (CPS12 Frame-Cab Tilt)	1
37	1490242	Connector (2 Way)	1
37	1490243	Connector (Secondary Lock)	1
37	1330438	Terminal (Socket)	2
38	. . . . .	Connector Assembly (CRP12 Frame-Cab Tilt)	1
38	4035905	Cap	1
39	1605545	Label (Cab Tilt Switch)	1
40	. . . . .	Connector Assembly (CPS80 WIF Sensor)	1
40	1490242	Connector (2 Way)	1
40	1490243	Connector (Secondary Lock)	1
40	1330438	Terminal (Socket)	2
41	. . . . .	Connector Assembly (CPS55 Frame-Fuse Box)	1
41	1545202	Connector	1
41	1546697	Connector (Secondary Lock)	1
41	1493434	Terminal (Socket)	2
42	. . . . .	Connector Assembly (TS12 Grid Heater Relay)	1
42	1493442	Boot	1
42	1610971	Ring Terminal	1
43	. . . . .	Connector Assembly (TS19 Grid Heater Relay)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
43	1493448	E-Ring	1
44	. . . . .	Connector Assembly (TS16 Fuse Alternator 100A)	1
44	1610971	Ring Terminal	1
45	. . . . .	Connector Assembly (TS26 Cab Fuse)	1
45	1610971	Ring Terminal	1
46	. . . . .	Connector Assembly (TS20 Grid Heater Relay)	1
46	1493448	E-Ring	1
47	. . . . .	Connector Assembly (CPS11 Diode Relays)	1
47	1610950	Housing (Sealed) (4-Way)	1
47	1482658	Terminal	2
47	1610941	Seal (Dummy)	2
47	1482659	Seal (Rubber)	2
48	. . . . .	Connector Assembly (CRP11 Diode Relays)	1
48	1610953	Diode	1
49	. . . . .	Connector Assembly (TS99 ECM Power Connection)	1
49	1692408	Ring Terminal	1

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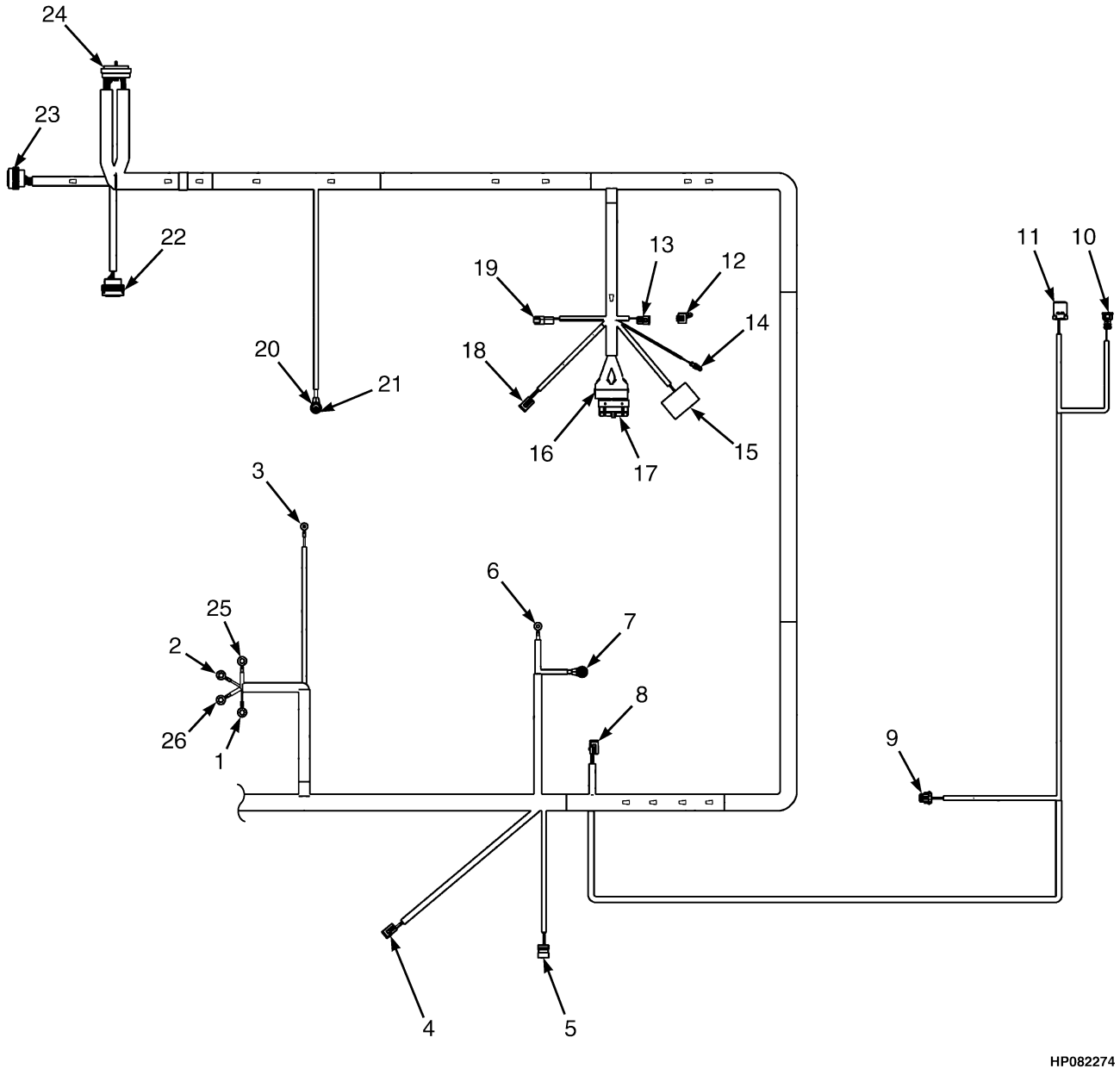
WIRE HARNESS (FIGURE 4-41)

CHASSIS (PAGE 2 OF 2) — TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)



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CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
	4060734	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (TS01 Ground Frame)	1
1	1569985	Terminal (Ring)	1
2	. . . . .	Connector Assembly (TS42 Ground Frame)	1
2	1493455	Ring Terminal	1
3	. . . . .	Connector Assembly (TS13 Starter Motor Solenoid)	1
3	1502921	Ring	1
4	. . . . .	Connector Assembly (CPS150 Frame DPF)	1
4	1502625	Connector (DT PLU 8-Socket)	1
4	1502626	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	8
5	. . . . .	Connector Assembly (CPS09 TBAP Sensor to Engine)	1
5	4023537	Connector	1
5	4023539	Terminal	4
5	4010949	Connector	1
6	. . . . .	Connector Assembly (TS07 Alternator Ground)	1
6	1610970	Ring Terminal	1
7	. . . . .	Connector Assembly (TS06 Alternator B+)	1
7	1610971	Ring Terminal	1
7	1493442	Boot	1
8	. . . . .	Connector Assembly (CPS131 Frame-Rear)	1
8	1493428	Connector (12-Way)	1
8	1500913	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	11
8	1330439	Plug	1
9	. . . . .	Connector Assembly (CPS04 Coolant Level)	1
9	1476067	Connector (M/P 150 PLU 3-Terminal)	1
9	1500913	Connector (Secondary Lock)	1
9	1330355	Terminal	3
9	1330356	Seal	3
10	. . . . .	Connector Assembly (CPS93 Air Filter)	1
10	1493435	Connector (2-Way)	1
10	1493436	Terminal (Socket)	2
10	1479109	Seal	2
11	. . . . .	Connector Assembly (CPS08 TBAP Sensor)	1
11	4010949	Connector	1
11	4010950	Connector	1
11	4010947	Terminal	4
12	. . . . .	Connector Assembly (CRP05 CAN Termination Resistor)	1
12	4035906	Cap	1
13	. . . . .	Connector Assembly (CPS05 CAN Termination Resistor)	1
13	1484397	Connector (3-Way)	1
13	1463194	Connector (Secondary Lock)	1
13	1330439	Plug	1
13	1518112	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CRP01 AC-Clutch)	1
14	1659115	Connector	1
14	1659116	Terminal	1
14	1330281	Terminal	1
14	1323579	Seal	1

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CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (S/N B236E01681L ↔ 11/2014)

ITEM	PART NO.	DESCRIPTION	QTY
15	. . . . .	Connector Assembly (CRP03 J4 OEM Breakout)	1
15	4016629	Connector	1
15	4016631	Plug	8
15	4016632	Plug	12
15	4016630	Terminal	4
16	1664886	Strain Relief	1
16	1664886	Strain Relief	1
17	. . . . .	Connector Assembly (CPS02 Engine ECM Signals)	1
17	4029058	Connector	1
17	1507725	Terminal	33
17	1484377	Plug	27
17	1664886	Strain Relief	1
18	. . . . .	Connector Assembly (CPS10 Fan Clutch)	1
18	1493430	Connector (6 Way Housing)	1
18	1529052	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	5
18	1330439	Plug	1
19	. . . . .	Connector Assembly (CRP08 WIF Sensor)	1
19	1493465	Connector (2 Pin)	1
19	1330414	Connector (Secondary Lock)	1
19	1330437	Terminal (Pin)	2
20	. . . . .	Connector Assembly (TS17 Grid Heater)	1
20	1610970	Ring Terminal	1
21	1493442	Boot	1
21	1493442	Boot	1
22	. . . . .	Connector Assembly (CPS35 Auxiliary Signals)	1
22	1484650	Connector (Socket)	1
22	1330438	Terminal (Socket)	14
22	1330439	Plug	17
23	. . . . .	Connector Assembly (CPS06 Cab Power)	1
23	1493433	Housing (Socket)	1
23	1493434	Terminal (Socket)	16
24	. . . . .	Connector Assembly (CPS07 Cab Signals)	1
24	1493431	Housing (Socket)	1
24	1493432	Retainer (Socket)	1
24	1330438	Terminal (Socket)	10
24	1330439	Plug	2
24	1463141	Terminal (Socket)	40
24	1484377	Plug	8
25	. . . . .	Connector Assembly (TS40 Ground Frame)	1
25	1493455	Ring Terminal	1
26	. . . . .	Connector Assembly (TS14 Ground Starter Motor)	1
26	1493455	Ring Terminal	1

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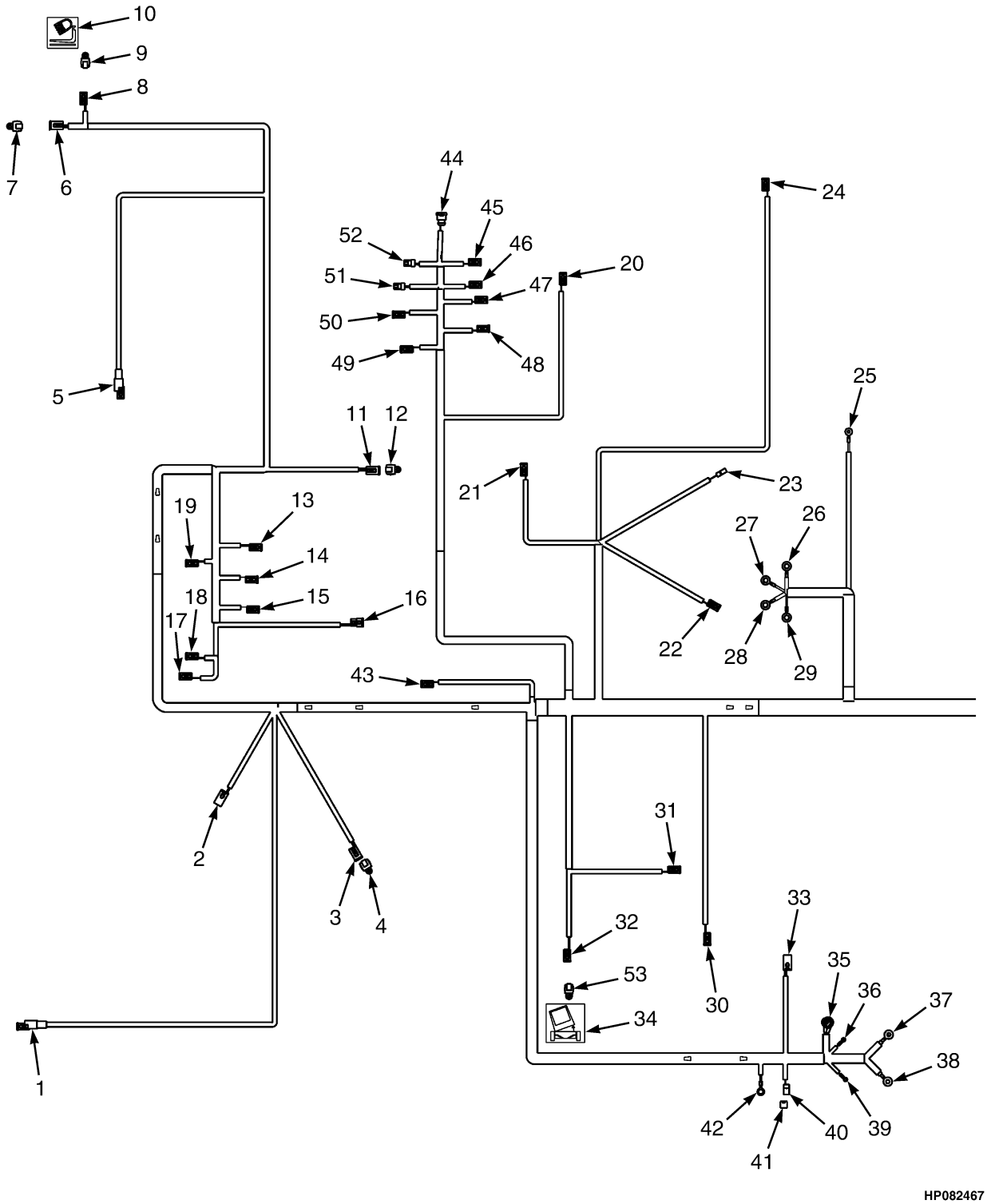
WIRE HARNESS (FIGURE 4-42)

CHASSIS (PAGE 1 OF 2) — TIER IV INTERIM ENGINE (11/2014 →)



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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4119553	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS88 Hub Temperature Switch)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Connector Assembly (CPS174 Hydraulic Cooler)	1
2	1545202	Connector	1
2	1546697	Connector (Secondary Lock)	1
2	1493434	Terminal (Socket)	2
3	. . . . .	Connector Assembly (CPS60 Frame - LH Front Lights)	1
3	1489656	Connector (4-Way)	1
3	1489657	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	4
4	. . . . .	Cap (CRP60 Frame - LH Front Lights)	1
4	4036523	Cap	1
5	. . . . .	Connector Assembly (CPS87 Hub Temperature Switch)	1
5	1490242	Connector (2 Way)	1
5	1490243	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	2
6	. . . . .	Connector Assembly (CPS164 Frame - Mast)	1
6	1493430	Connector (6 Way Housing)	1
6	1529052	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	5
6	1330439	Plug	1
7	. . . . .	Cap (CRP164 Frame - Mast)	1
7	4036873	Cap (6 Way)	1
8	. . . . .	Connector Assembly (CPS124 Frame - Mast Lights)	1
8	1490242	Connector (2 Way)	1
8	1490243	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	2
9	. . . . .	Cap (CRP124 Frame - Mast Lights)	1
9	4035905	Cap	1
10	1570643	Label (Mast And Attachment Worklight)	1
11	. . . . .	Connector Assembly (CPS61 Frame - RH Front Lights)	1
11	1489656	Connector (4-Way)	1
11	1489657	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	4
12	. . . . .	Cap (CRP61 Frame - RH Front Lights)	1
12	4036523	Cap	1
13	. . . . .	Connector Assembly (CPS127 Brake Light)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS103 Lift Solenoid 1)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS104 Lift Solenoid 2)	1
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
15	1330438	Terminal (Socket)	2
16	. . . . .	Connector Assembly (CPS18 Brake Pressure Switch)	1
16	1484397	Connector (3-Way)	1
16	1463194	Connector (Secondary Lock)	1
16	1330438	Terminal (Socket)	3
17	. . . . .	Connector Assembly (CPS101 Auxiliary Solenoid)	1
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2
18	. . . . .	Connector Assembly (CPS102 Tilt Solenoid)	1
18	1490242	Connector (2 Way)	1
18	1490243	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	2
19	. . . . .	Connector Assembly (CPS98 Park Brake Solenoid)	1
19	1490242	Connector (2 Way)	1
19	1490243	Connector (Secondary Lock)	1
19	1330438	Terminal (Socket)	2
20	. . . . .	Connector Assembly (CPS25 Drum Speed)	1
20	1490242	Connector (2 Way)	1
20	1490243	Connector (Secondary Lock)	1
20	1518112	Terminal (Socket)	2
21	. . . . .	Connector Assembly (CPS24 Output Speed)	1
21	1490242	Connector (2 Way)	1
21	1490243	Connector (Secondary Lock)	1
21	1518112	Terminal (Socket)	2
22	. . . . .	Connector Assembly (CPS26 Turbine Speed)	1
22	1490242	Connector (2 Way)	1
22	1490243	Connector (Secondary Lock)	1
22	1518112	Terminal (Socket)	2
23	. . . . .	Connector Assembly (TS27 Transmission Temperature Switch)	1
23	1610947	Receptacle	1
23	1624103	Terminal	1
24	. . . . .	Connector Assembly (CPS139 Engine Speed)	1
24	1490242	Connector (2 Way)	1
24	1490243	Connector (Secondary Lock)	1
24	1330438	Terminal (Socket)	2
25	. . . . .	Ring Terminal (TS13 Starter Motor Solenoid)	1
25	1502921	Ring	1
26	. . . . .	Ring Terminal (TS40 Ground Frame)	1
26	1493455	Ring Terminal	1
27	. . . . .	Ring Terminal (TS42 Ground Frame)	1
27	1493455	Ring Terminal	1
28	. . . . .	Ring Terminal (TS14 Ground Starter Motor)	1
28	1493455	Ring Terminal	1
29	. . . . .	Ring Terminal (TS01 Ground Frame)	1
29	1569985	Terminal (Ring)	1
30	. . . . .	Connector Assembly (CPS80 WIF Sensor)	1
30	1490242	Connector (2 Way)	1
30	1490243	Connector (Secondary Lock)	1
30	1330438	Terminal (Socket)	2

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CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
31	. . . . .	Connector Assembly (CPS22 Fuel Sender)	1
31	1490242	Connector (2 Way)	1
31	1490243	Connector (Secondary Lock)	1
31	1330438	Terminal (Socket)	2
32	. . . . .	Connector Assembly (CPS12 Frame - Cab Tilt)	1
32	1490242	Connector (2 Way)	1
32	1490243	Connector (Secondary Lock)	1
32	1330438	Terminal (Socket)	2
33	. . . . .	Connector Assembly (CPS55 Frame - Fuse Box)	1
33	1545202	Connector	1
33	1546697	Connector (Secondary Lock)	1
33	1493434	Terminal (Socket)	2
34	1605545	Label (Cab Tilt Switch)	1
35	. . . . .	Ring Terminal (TS12 Grid Heater Relay)	1
35	1610971	Ring Terminal	1
36	. . . . .	Ring Terminal (TS19 Grid Heater Relay)	1
36	1493448	E-Ring	1
37	. . . . .	Ring Terminal (TS16 Fuse Alternator 100A)	1
37	1610971	Ring Terminal	1
38	. . . . .	Ring Terminal (TS26 Cab Fuse)	1
38	1610971	Ring Terminal	1
39	. . . . .	Ring Terminal (TS20 Grid Heater Relay)	1
39	1493448	E-Ring	1
40	. . . . .	Connector Assembly (CPS11 Diode Relays)	1
40	1610950	Housing (Sealed) (4-Way)	1
40	1482658	Terminal	2
40	1482659	Seal (Rubber)	2
40	1610941	Seal (Dummy)	2
41	. . . . .	Diode Assy (CRP11 Diode Relays)	1
41	1610953	Diode	1
42	. . . . .	Ring Terminal (TS99 ECM Power Connection)	1
42	1692408	Ring Terminal	1
43	. . . . .	Connector Assembly (CPS72 Second Lift Disable)	1
43	1490242	Connector (2 Way)	1
43	1490243	Connector (Secondary Lock)	1
43	1330438	Terminal (Socket)	2
44	. . . . .	Connector Assembly (CRP09 Sump Temperature)	1
44	1479108	Connector	1
44	1479107	Terminal	2
45	. . . . .	Connector Assembly (CPS134 Second Prop)	1
45	1490242	Connector (2 Way)	1
45	1490243	Connector (Secondary Lock)	1
45	1330438	Terminal (Socket)	2
46	. . . . .	Connector Assembly (CPS133 Forward/Reverse Prop)	1
46	1490242	Connector (2 Way)	1
46	1490243	Connector (Secondary Lock)	1
46	1330438	Terminal (Socket)	2
47	. . . . .	Connector Assembly (CPS136 First/Third Prop)	1
47	1490242	Connector (2 Way)	1
47	1490243	Connector (Secondary Lock)	1

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WIRE HARNESS

CHASSIS (PAGE 1 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
47	1330438	Terminal (Socket)	2
48	. . . . .	Connector Assembly (CPS132 Reverse Selector)	1
48	1490242	Connector (2 Way)	1
48	1490243	Connector (Secondary Lock)	1
48	1330438	Terminal (Socket)	2
49	. . . . .	Connector Assembly (CPS129 Forward Selector)	1
49	1490242	Connector (2 Way)	1
49	1490243	Connector (Secondary Lock)	1
49	1330438	Terminal (Socket)	2
50	. . . . .	Connector Assembly (CPS137 First/Third Selector)	1
50	1490242	Connector (2 Way)	1
50	1490243	Connector (Secondary Lock)	1
50	1330438	Terminal (Socket)	2
51	. . . . .	Connector Assembly (CRP10 First/Third P Sensor)	1
51	1327957	Connector (E-Fitting Connector Plug)	1
51	1532571	Terminal	3
52	. . . . .	Connector Assembly (CRP13 Second P Sensor)	1
52	1327957	Connector (E-Fitting Connector Plug)	1
52	1532571	Terminal	3
53	. . . . .	Cap (CRP12 Frame - Cab Tilt)	1
53	4035905	Cap	1

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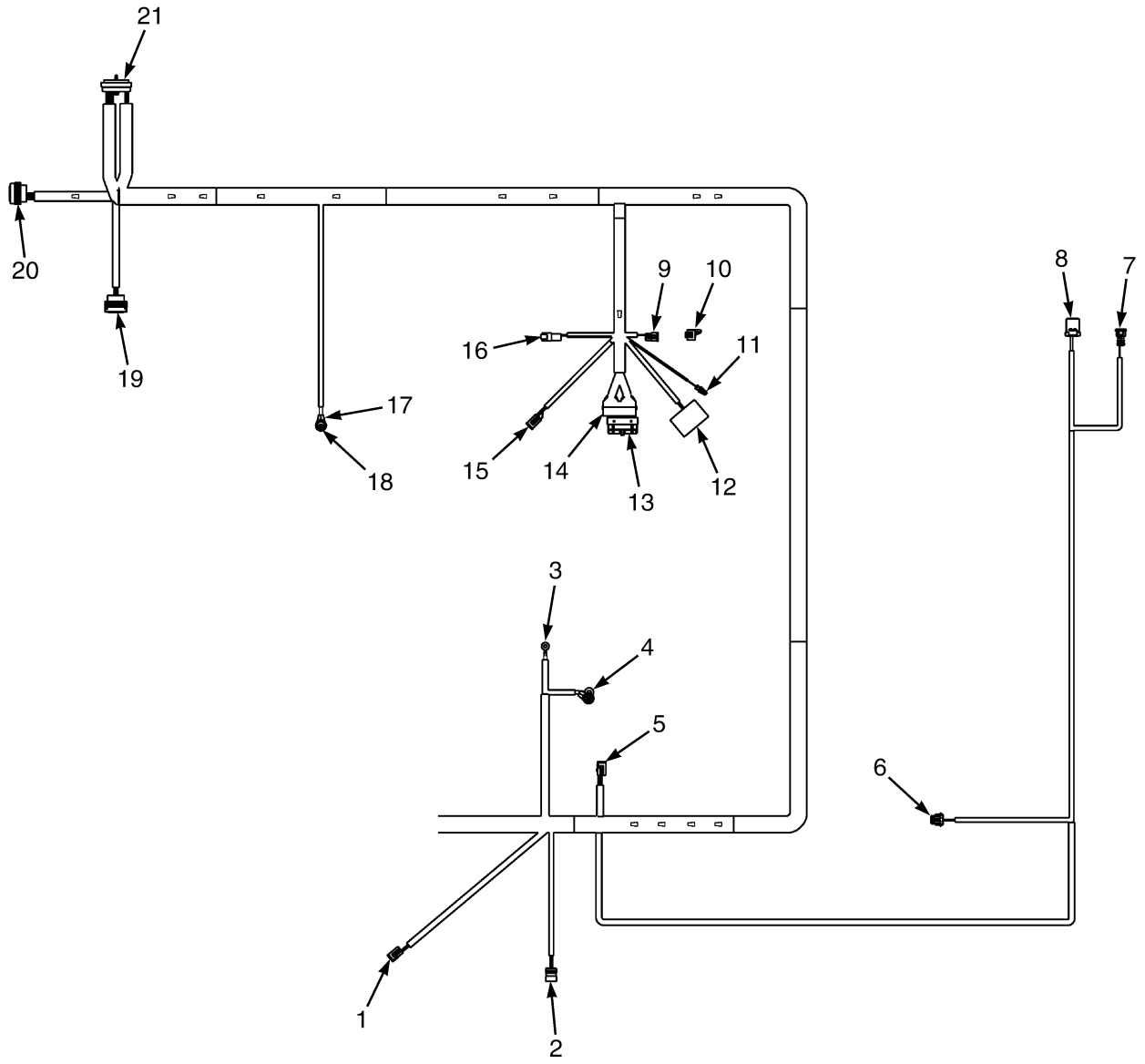
WIRE HARNESS (FIGURE 4-43)

CHASSIS (PAGE 2 OF 2) — TIER IV INTERIM ENGINE (11/2014 →)



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WIRE HARNESS

CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4119553	Wire Harness (Chassis)	1
1	. . . . .	Connector Assembly (CPS150 Frame - DPF)	1
1	1502625	Connector (DT PLU 8-Socket)	1
1	1502626	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	8
2	. . . . .	Connector Assembly (CPS09 TBAP Sensor to Engine)	1
2	4023537	Connector	1
2	4023539	Terminal	4
3	. . . . .	Ring Terminal (TS07 Alternator Ground)	1
3	1610970	Ring Terminal	1
4	. . . . .	Ring Terminal (TS06 Alternator B+)	1
4	1610971	Ring Terminal	1
5	. . . . .	Connector Assembly (CPS131 Frame - Rear)	1
5	1493428	Connector (12-Way)	1
5	1500913	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	11
5	1330439	Plug	1
6	. . . . .	Connector Assembly (CPS04 Coolant Level)	1
6	1476067	Connector (M/P 150 PLU 3-Terminal)	1
6	1476109	Connector Lock	1
6	1330355	Terminal	3
6	1330356	Seal	1
7	. . . . .	Connector Assembly (CPS93 Air Filter)	1
7	1493435	Connector (2-Way)	1
7	1493436	Terminal (Socket)	2
7	1479109	Seal	2
8	. . . . .	Connector Assembly (CPS08 TBAP Sensor)	1
8	4010949	Connector	1
8	4010950	Connector	1
8	4010947	Terminal	4
9	. . . . .	Connector Assembly (CPS05 CAN Termination Resistor)	1
9	1484397	Connector (3-Way)	1
9	1463194	Connector (Secondary Lock)	1
9	1518112	Terminal (Socket)	2
9	1330439	Plug	1
10	. . . . .	Cap (CRP05 CAN Termination Resistor)	1
10	4035906	Cap	1
11	. . . . .	Connector Assembly (CRP01 AC - Clutch)	1
11	1659115	Connector	1
11	1659116	Terminal	1
11	1330281	Terminal	1
11	1323579	Seal	1
12	. . . . .	Connector Assembly (CRP03 J4 OEM Breakout)	1
12	4016629	Connector	1
12	4016631	Plug	8
12	4016632	Plug	12
12	4016630	Terminal	4
13	. . . . .	Connector Assembly (CPS02 Engine ECM Signals)	1
13	4029058	Connector	1
13	1507725	Terminal	29

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CHASSIS (PAGE 2 OF 2) – TIER IV INTERIM ENGINE (11/2014 →)

ITEM	PART NO.	DESCRIPTION	QTY
13	1484377	Plug	27
14	1664886	Strain Relief	1
15	. . . . .	Connector Assembly (CPS10 Fan Clutch)	1
15	1493430	Connector (6 Way Housing)	1
15	1529052	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	5
15	1330439	Plug	1
16	. . . . .	Connector Assembly (CRP08 WIF Sensor)	1
16	1493465	Connector (2 Pin)	1
16	1330414	Connector (Secondary Lock)	1
16	1330437	Terminal (Pin)	2
17	. . . . .	Ring Terminal (TS17 Grid Heater)	1
17	1610970	Ring Terminal	1
18	1493442	Boot	1
19	. . . . .	Connector Assembly (CPS35 Auxiliary Signals)	1
19	1484650	Connector (Socket)	1
19	1330438	Terminal (Socket)	14
19	1330439	Plug	17
20	. . . . .	Connector Assembly (CPS06 Cab Power)	1
20	1493433	Housing (Socket)	1
20	1493434	Terminal (Socket)	16
21	. . . . .	Connector Assembly (CPS07 Cab Signals)	1
21	1493431	Housing (Socket)	1
21	1493432	Retainer (Socket)	1
21	1463141	Terminal (Socket)	41
21	1484377	Plug	8
21	1330438	Terminal (Socket)	10
21	1330439	Plug	2

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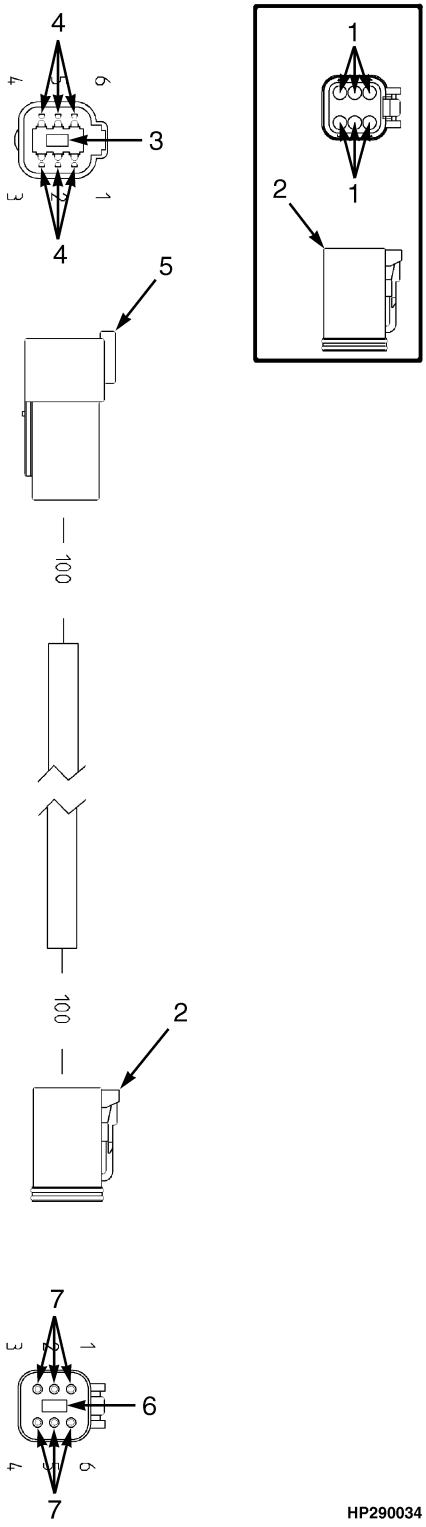
WIRE HARNESS (FIGURE 4-44)
FRONT END EQUIPMENT — MAST REAR HEADER HOSES



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WIRE HARNESS

FRONT END EQUIPMENT – MAST REAR HEADER HOSES

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1677209	Wire Harness (Front End Equipment) 3650 mm	1	..
	1677210	Wire Harness (Front End Equipment) 4550 mm	1	..
	1677211	Wire Harness (Front End Equipment) 5300 mm	1	..
	1677212	Wire Harness (Front End Equipment) 6100 mm	1	..
	1677213	Wire Harness (Front End Equipment) 6600 mm	1	..
	1677214	Wire Harness (Front End Equipment) 6900 mm	1	..
	1677215	Wire Harness (Front End Equipment) 3650 mm	..	1
	1677216	Wire Harness (Front End Equipment) 4550 mm	..	1
	1677217	Wire Harness (Front End Equipment) 5300 mm	..	1
	1677213	Wire Harness (Front End Equipment) 6100 mm	..	1
	1677218	Wire Harness (Front End Equipment) 6600 mm	..	1
	1677219	Wire Harness (Front End Equipment) 6900 mm	..	1
1	1330439	Plug	6	6
2	1330422	Connector	2	2
3	1330417	Connector (Secondary Lock)	1	1
4	1330437	Terminal (Pin)	6	6
5	1330412	Connector	1	1
6	1330428	Connector (Secondary Lock)	1	1
7	1330438	Terminal (Socket)	6	6

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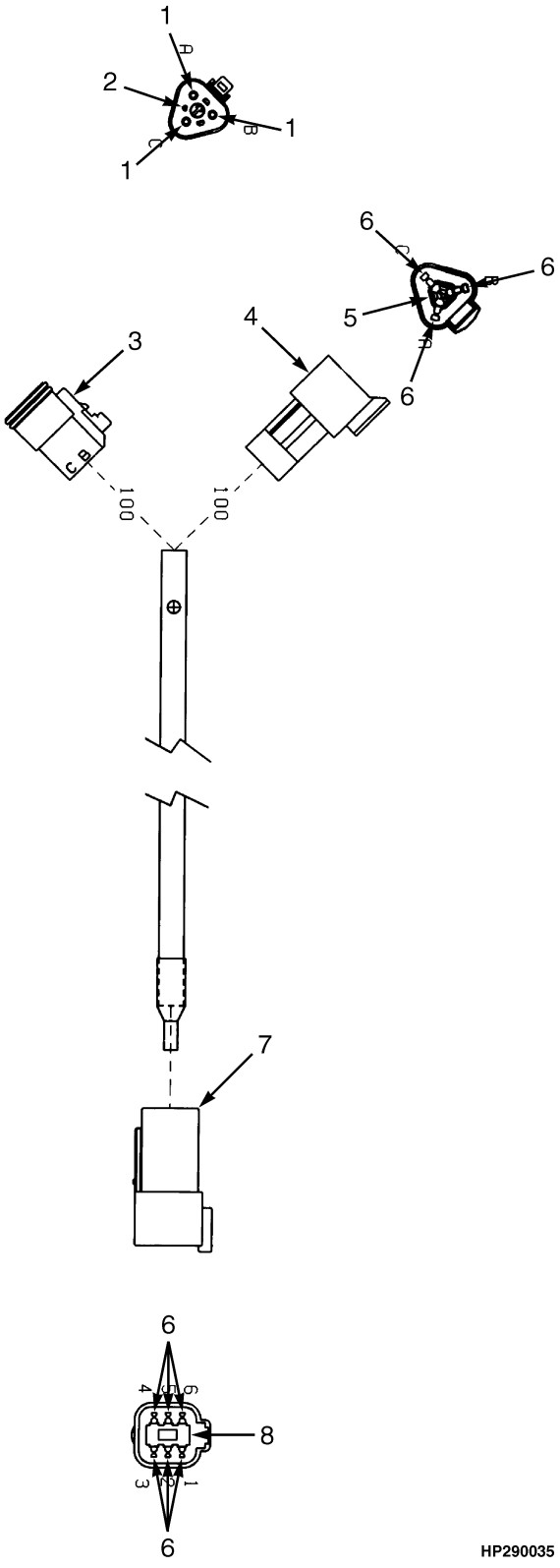
WIRE HARNESS (FIGURE 4-45)
FRONT END EQUIPMENT — MAST FRONT HEADER HOSES



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WIRE HARNESS

FRONT END EQUIPMENT – MAST FRONT HEADER HOSES

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1452036	Wire Harness (Front End Equipment) 3650 mm	1	..
	1452037	Wire Harness (Front End Equipment) 4550 mm	1	..
	1452038	Wire Harness (Front End Equipment) 5300 mm	1	..
	1452049	Wire Harness (Front End Equipment) 6100 mm	1	..
	1452039	Wire Harness (Front End Equipment) 6600 mm	1	..
	1452040	Wire Harness (Front End Equipment) 6900 mm	1	1
	1452042	Wire Harness (Front End Equipment) 3650 mm	..	1
	1452043	Wire Harness (Front End Equipment) 4550 mm	..	1
	1452044	Wire Harness (Front End Equipment) 5300 mm	..	1
	1452045	Wire Harness (Front End Equipment) 6100 mm	..	1
	1452046	Wire Harness (Front End Equipment) 6600 mm	..	1
1	1330438	Terminal (Socket)	3	3
2	1330426	Connector (Secondary Lock)	1	1
3	1330420	Connector	1	1
4	1330410	Connector (DT REC 3-Pin)	1	1
5	1330415	Connector (Secondary Lock)	1	1
6	1330437	Terminal (Pin)	6	6
7	1330412	Connector	1	1
8	1330417	Connector (Secondary Lock)	1	1

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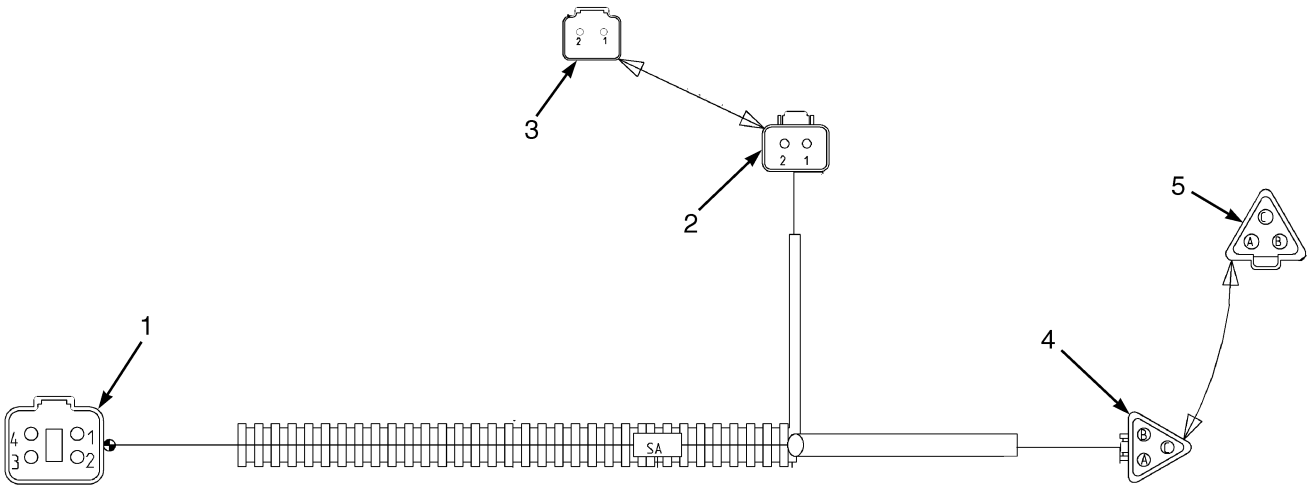
WIRE HARNESS (FIGURE 4-46)
FRONT LIGHTS



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ITEM	PART NO.	DESCRIPTION	QTY
	1672817	Wire Harness (Front Lights)	1
1	. . . . .	Connector Assembly (C10 Frame)	1
1	1489655	Connector (4 Way)	1
1	1330416	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	4
2	. . . . .	Connector Assembly (C20 RH/LH Drive Light)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2
3	. . . . .	Connector Assembly (Insert)	1
3	1493465	Connector (2 Pin)	1
3	1330439	Plug	2
4	. . . . .	Connector Assembly (C30 Side Indicator)	1
4	1484397	Connector (3-Way)	1
4	1463194	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	3
5	. . . . .	Connector Assembly (Insert)	1
5	1493466	Connector (3-Way)	1
5	1330439	Plug	3

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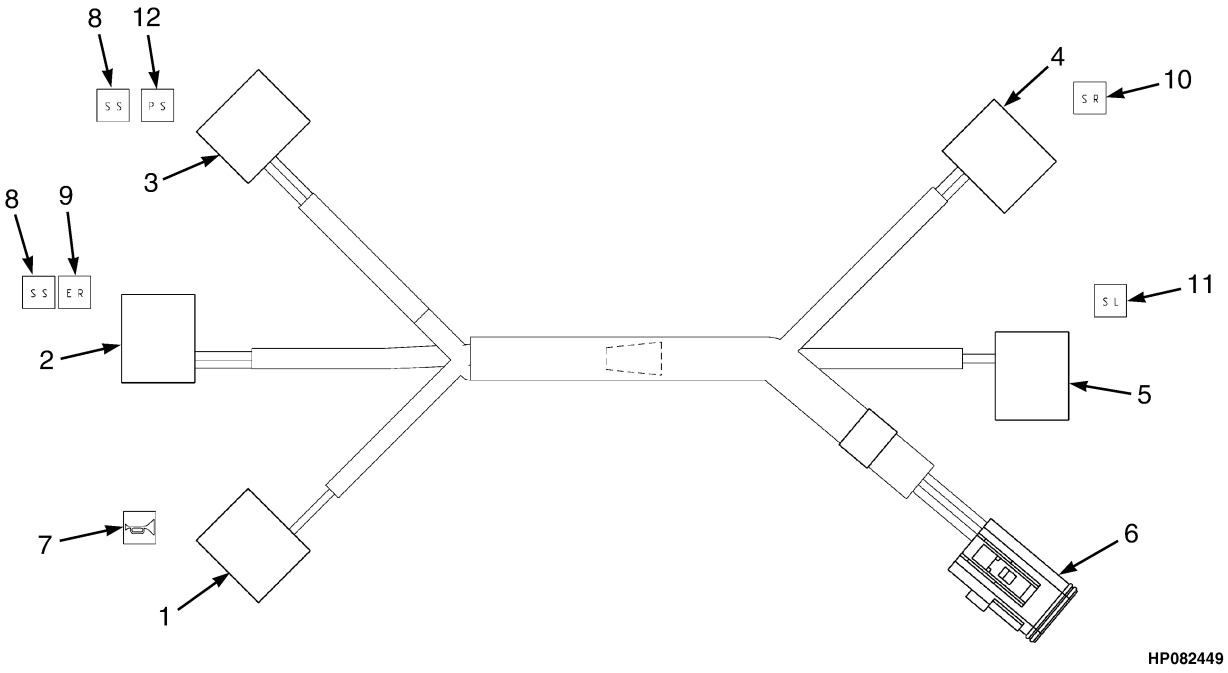
WIRE HARNESS (FIGURE 4-47)
HYDRAULIC LEVERS SWITCHES



ITEM	PART NO.	DESCRIPTION	QTY
	1547278	Wire Harness (Hydraulic Lever Switches)	1
1	. . . . .	Connector Assembly (CPS169 Horn Switch)	1
1	1484555	Connector Body (10-Way)	1
1	1484556	Terminal	2
2	. . . . .	Connector Assembly (CPS170 Side-Shift Switch)	1
2	1484555	Connector Body (10-Way)	1
2	1484556	Terminal	3
3	. . . . .	Connector Assembly (CPS171 Pile Slope Switch)	1
3	1484555	Connector Body (10-Way)	1
3	1484556	Terminal	3
4	. . . . .	Connector Assembly (CPS172 Slew RH Switch)	1
4	1484555	Connector Body (10-Way)	1
4	1484556	Terminal	3
5	. . . . .	Connector Assembly (CPS173 Slew LH Switch)	1
5	1484555	Connector Body (10-Way)	1
5	1484556	Terminal	3
6	. . . . .	Connector Assembly (CRP135 Switches Without Joystick)	1
6	1493428	Connector (12-Way)	1
6	1500913	Connector (Secondary Lock)	1
6	1330438	Terminal (Socket)	11
6	1330439	Plug	1
7	1570617	Label (Horn Switch)	1
8	309733	Label (Side-Shift)	2
9	1638972	Label (Extend and Retract)	1
10	. . . . .	Label (Slew RH)	1
11	. . . . .	Label (Slew LH)	1

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ITEM	PART NO.	DESCRIPTION	QTY
12	. . . . .	Label (Pile Slope)	1

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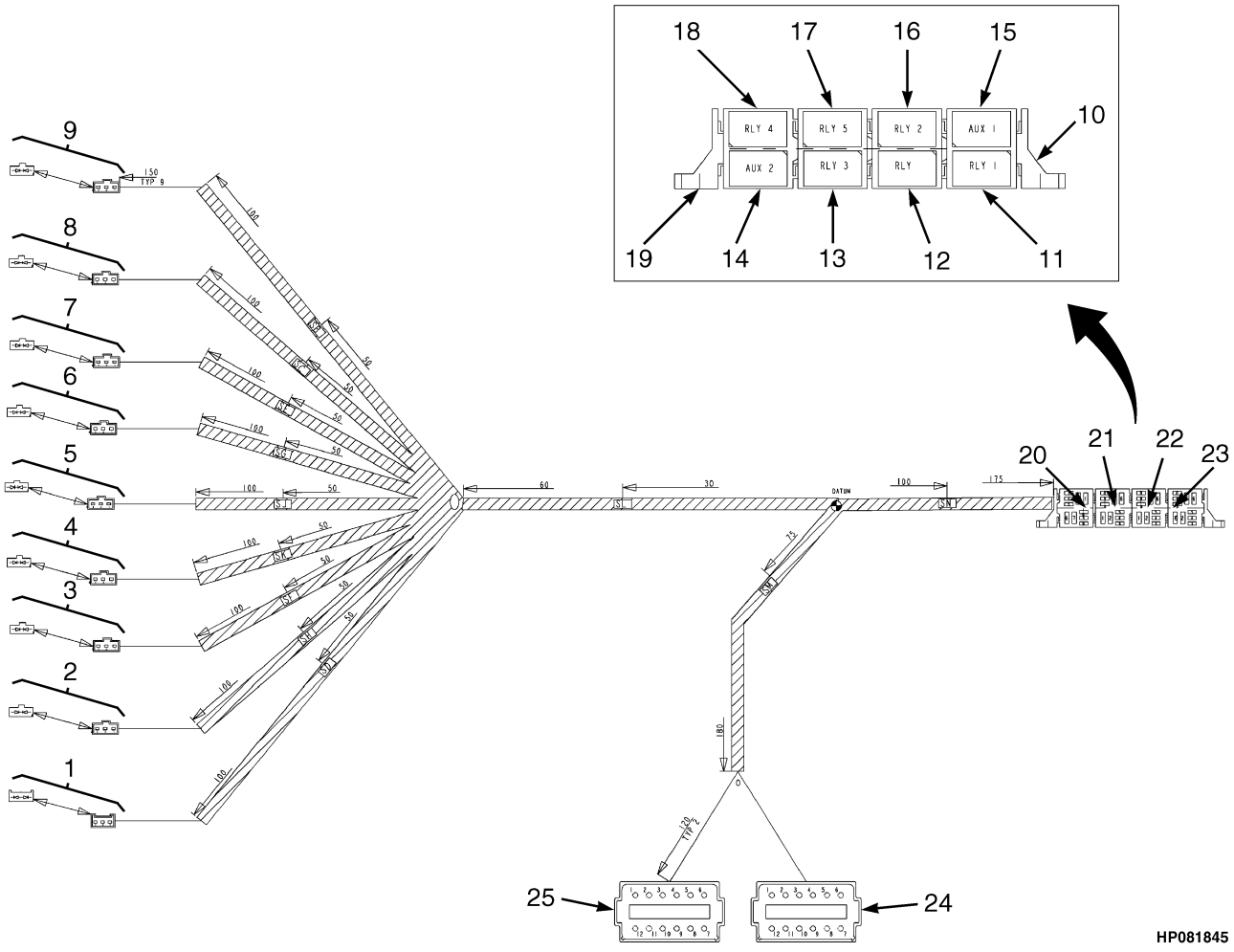
WIRE HARNESS (FIGURE 4-48)
HYDRAULIC RELAYS



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WIRE HARNESS
HYDRAULIC RELAYS

ITEM	PART NO.	DESCRIPTION	QTY
	1583987	Wire Harness (Hydraulic Relays)	1
1	. . . . .	Connector Assembly (C180 Diode Block 9)	1
1	2047859	Connector Body	1
1	1484717	Diode	1
1	2054463	Female Terminal	3
1	1484717	Diode	1
2	. . . . .	Connector Assembly (C170 Diode Block 8)	1
2	1489959	Housing (Socket)	1
2	1489958	Diode	1
2	2054463	Female Terminal	3
3	. . . . .	Connector Assembly (C160 Diode Block 7)	1
3	1489959	Housing (Socket)	1
3	1489958	Diode	1
3	2054463	Female Terminal	3
4	. . . . .	Connector Assembly (C150 Diode Block 6)	1
4	1489959	Housing (Socket)	1
4	1489958	Diode	1
4	2054463	Female Terminal	3
5	. . . . .	Connector Assembly (C140 Diode Block 5)	1
5	1489959	Housing (Socket)	1
5	1489958	Diode	1
5	2054463	Female Terminal	3
6	. . . . .	Connector Assembly (C130 Diode Block 4)	1
6	1489959	Housing (Socket)	1
6	1489958	Diode	1
6	2054463	Female Terminal	3
7	. . . . .	Connector Assembly (C120 Diode Block 3)	1
7	1489959	Housing (Socket)	1
7	1489958	Diode	1
7	2054463	Female Terminal	3
8	. . . . .	Connector Assembly (C110 Diode Block 2)	1
8	1489959	Housing (Socket)	1
8	1489958	Diode	1
8	2054463	Female Terminal	3
9	. . . . .	Connector Assembly (C100 Diode Block1)	1
9	1489959	Housing (Socket)	1
9	1489958	Diode	1
9	2054463	Female Terminal	3
10	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	1
11	. . . . .	Connector Assembly (C30 Relay 1)	1
11	1484683	Relay (Base)	1
11	1489957	Connector (1-Way)	2
11	1570602	Terminal (Socket)	2
11	1489960	Relay (24 Volt)	1
12	. . . . .	Connector Assembly (C40 Relay 6)	1
12	1489957	Connector (1-Way)	2
12	1570602	Terminal (Socket)	2
12	1489960	Relay (24 Volt)	1
13	. . . . .	Connector Assembly (C50 Relay 3)	1
13	1484683	Relay (Base)	1

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WIRE HARNESS
HYDRAULIC RELAYS

ITEM	PART NO.	DESCRIPTION	QTY
13	1489957	Connector (1-Way)	2
13	1570602	Terminal (Socket)	2
13	1489960	Relay (24 Volt)	1
14	. . . . .	Connector Assembly (C60 Auxiliary 2)	1
14	1489957	Connector (1-Way)	1
14	1570602	Terminal (Socket)	3
14	1489960	Relay (24 Volt)	1
15	. . . . .	Connector Assembly (C30 Auxiliary 1)	1
15	1489957	Connector (1-Way)	1
15	1570602	Terminal (Socket)	3
15	1489960	Relay (24 Volt)	1
16	. . . . .	Connector Assembly (C40 Relay 2)	1
16	1484683	Relay (Base)	1
16	1489957	Connector (1-Way)	2
16	1570602	Terminal (Socket)	2
16	1489960	Relay (24 Volt)	1
17	. . . . .	Connector Assembly (C50 Relay 5)	1
17	1489957	Connector (1-Way)	2
17	1570602	Terminal (Socket)	2
17	1489960	Relay (24 Volt)	1
18	. . . . .	Connector Assembly (C60 Relay 4)	1
18	1484683	Relay (Base)	1
18	1489957	Connector (1-Way)	2
18	1570602	Terminal (Socket)	2
18	1489960	Relay (24 Volt)	1
19	1484714	Clip , Side-Mounting	1
20	. . . . .	Connector Assembly (C60 Relay 4, Auxiliary 2)	1
20	1484683	Relay (Base)	1
20	1489957	Connector (1-Way)	3
20	1570602	Terminal (Socket)	5
21	. . . . .	Connector Assembly (C50 Relay 3, Relay 5)	1
21	1484683	Relay (Base)	1
21	1489957	Connector (1-Way)	4
21	1570602	Terminal (Socket)	4
22	. . . . .	Connector Assembly (C40 Relay 2, Relay 6)	1
22	1484683	Relay (Base)	1
22	1489957	Connector (1-Way)	4
22	1570602	Terminal (Socket)	4
23	. . . . .	Connector Assembly (C30 Relay 1, Auxiliary 1)	1
23	1484683	Relay (Base)	1
23	1489957	Connector (1-Way)	3
23	1570602	Terminal (Socket)	5
24	. . . . .	Connector Assembly (C10 Cab Console Harness)	1
24	1500925	Connector (DT REC 12-Pin)	1
24	1352603	Secondary Lock	1
24	1330437	Terminal (Pin)	12
24	1570622	Label (1234)	1
25	. . . . .	Connector Assembly (C20 Cab Console Harness)	1
25	1500925	Connector (DT REC 12-Pin)	1
25	1352603	Secondary Lock	1

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WIRE HARNESS
HYDRAULIC RELAYS

ITEM	PART NO.	DESCRIPTION	QTY
25	1330437	Terminal (Pin)	10
25	1330439	Plug	2
25	1570622	Label (1234)	1

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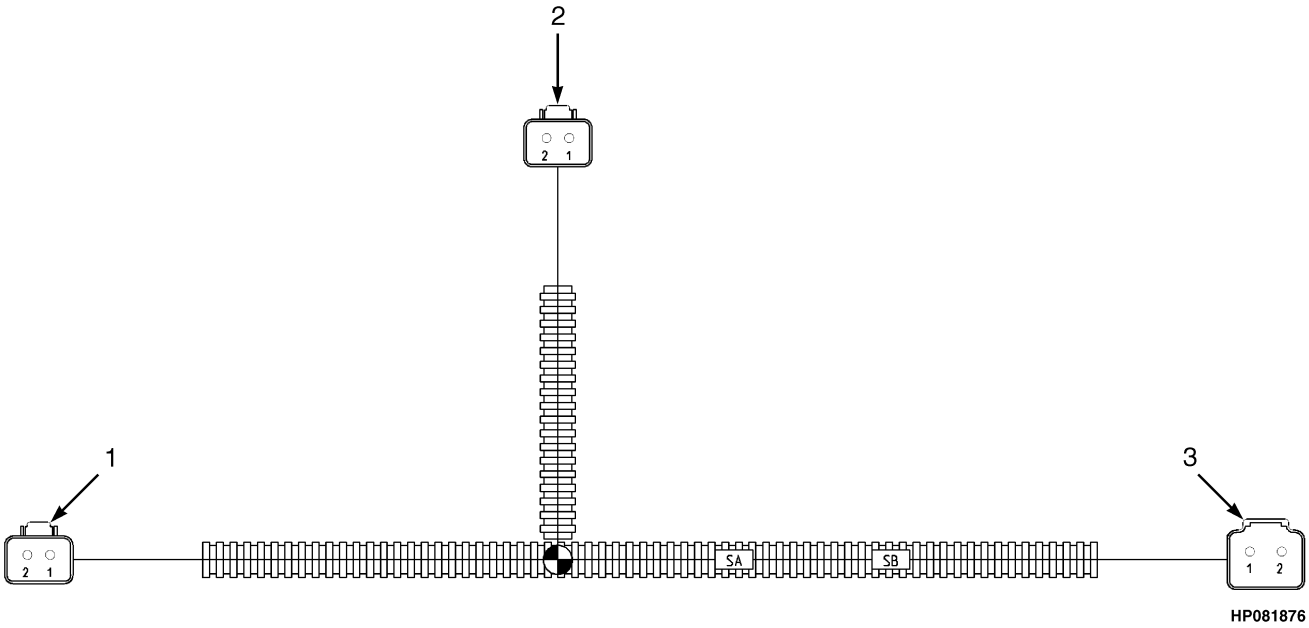
WIRE HARNESS (FIGURE 4-49)
MAST WORK LIGHTS — SUPPLY



ITEM	PART NO.	DESCRIPTION	QTY
	1623886	Wire Harness (Mast Work Light)	1
1	. . . . .	Connector Assembly (C10 LH Work Light Harness)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Connector Assembly (C20 RH Work Light Harness)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2
3	. . . . .	Connector Assembly (C30 Chassis Harness)	1
3	1493465	Connector (2 Pin)	1
3	1330414	Connector (Secondary Lock)	1
3	1330437	Terminal (Pin)	2

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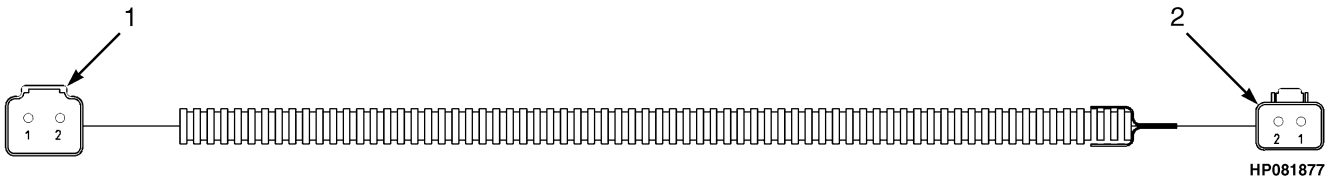
WIRE HARNESS (FIGURE 4-50)
MAST WORK LIGHT — LEFT HAND



ITEM	PART NO.	DESCRIPTION	QTY
	1623887	Wire Harness (LH Mast Work Light)	1
1	. . . . .	Connector Assembly (C10 LH Mast Light)	1
1	1493465	Connector (2 Pin)	1
1	1330414	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	2
2	. . . . .	Connector Assembly (C20 Supply Work Light Harness)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2

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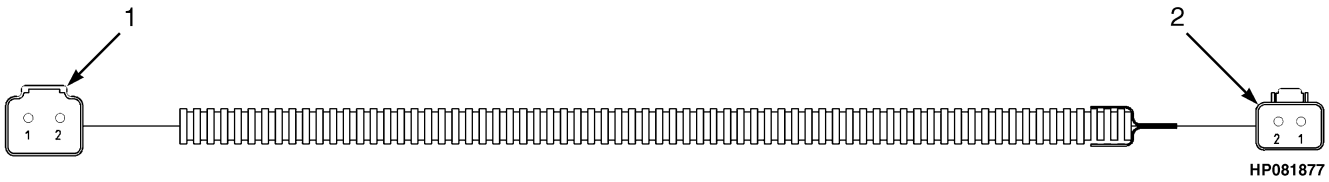
WIRE HARNESS (FIGURE 4-51)
MAST WORK LIGHT — RIGHT HAND



ITEM	PART NO.	DESCRIPTION	QTY
	1623888	Wire Harness (RH Mast Work Light) (2900-5300 Lift Height)	1
	1623889	Wire Harness (RH Mast Work Light) (6100-6900 Lift Height)	1
1	. . . . .	Connector Assembly (C10 LH Mast Light)	1
1	1493465	Connector (2 Pin)	1
1	1330414	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	2
2	. . . . .	Connector Assembly (C20 Supply Work Light Harness)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2

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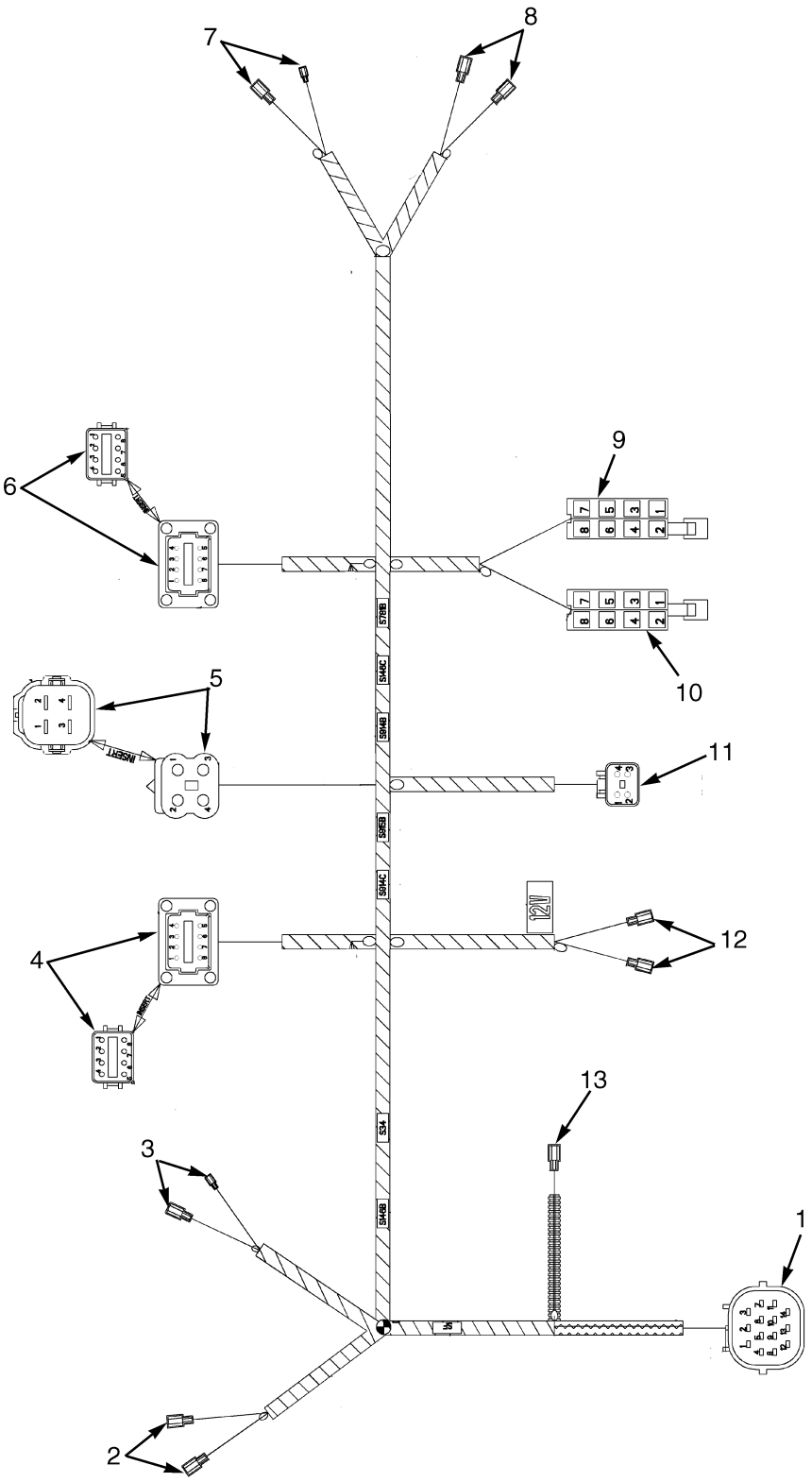
WIRE HARNESS (FIGURE 4-52)
OPEN AND CLOSED CAB



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WIRE HARNESS
OPEN AND CLOSED CAB

ITEM	PART NO.	DESCRIPTION	QTY
	1583941	Wire Harness (Cab)	1
1	. . . . .	Connector Assembly (CRP2 Cab Connection)	1
1	1484592	Connector	1
1	1484593	Retainer	1
1	1484611	Seal (Blanking)	1
1	1484594	Terminal (Pin)	4
1	1484595	Seal	4
1	1484596	Terminal (Pin)	9
1	1484597	Seal	9
2	. . . . .	Connector Assembly (CPS83 RH Interior Light)	1
2	1610948	Receptacle	2
2	1610947	Receptacle	2
3	. . . . .	Connector Assembly (CPS84 RH Speaker)	1
3	1610948	Receptacle	1
3	1610947	Receptacle	1
3	1484600	Terminal	1
3	1484383	Heat Shrink	1
4	. . . . .	Connector Assembly (CRP86 RH Cab Lights)	1
4	1570603	Housing	1
4	1330418	Connector (DT REC 8-Pin)	1
4	1330437	Terminal (Pin)	4
4	1330439	Plug	3
4	1363885	Terminal (Pin)	1
4	1330439	Plug	8
4	1570601	Gasket	1
4	1624336	Housing	1
5	. . . . .	Connector Assembly (CPS88 Diode)	1
5	1610950	Housing (Sealed) (4-Way)	1
5	1610941	Seal (Dummy)	2
5	1484656	Terminal (Socket)	2
5	1482659	Seal (Rubber)	2
5	1546697	Connector (Secondary Lock)	1
6	. . . . .	Connector Assembly (CRP89 LH Cab Lights)	1
6	1570603	Housing	1
6	1330418	Connector (DT REC 8-Pin)	1
6	1363885	Terminal (Pin)	1
6	1330437	Terminal (Pin)	4
6	1330439	Plug	3
6	1330439	Plug	8
6	1570601	Gasket	1
6	1624336	Housing	1
7	. . . . .	Connector Assembly (CPS92 LH Speaker)	1
7	1610948	Receptacle	1
7	1610947	Receptacle	1
7	1484600	Terminal	1
7	1484383	Heat Shrink	1
8	. . . . .	Connector Assembly (CPS93 LH Interior Light)	1
8	1610948	Receptacle	2
8	1610947	Receptacle	2
9	. . . . .	Connector Assembly (CPS91 Radio Power)	1

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WIRE HARNESS
OPEN AND CLOSED CAB

ITEM	PART NO.	DESCRIPTION	QTY
9	1484609	Housing (Socket)	1
9	1484719	Terminal	3
9	1570645	Label (12 Volt)	1
10	. . . . .	Connector Assembly (CPS90 Radio Speakers)	1
10	1484608	Housing (Socket)	1
10	1484610	Terminal	4
11	. . . . .	Connector Assembly (CPS87 Roof Wiper)	1
11	1489656	Connector (4-Way)	1
11	1489657	Connector (Secondary Lock)	1
11	1634082	Terminal (Socket)	4
12	. . . . .	Connector Assembly (CPS85 Radio Comms)	1
12	1610948	Receptacle	2
12	1610947	Receptacle	2
12	1570645	Label (12 Volt)	1
13	. . . . .	Connector Assembly (TS82 Ventilation Fan)	1
13	1610948	Receptacle	1
13	1610947	Receptacle	1

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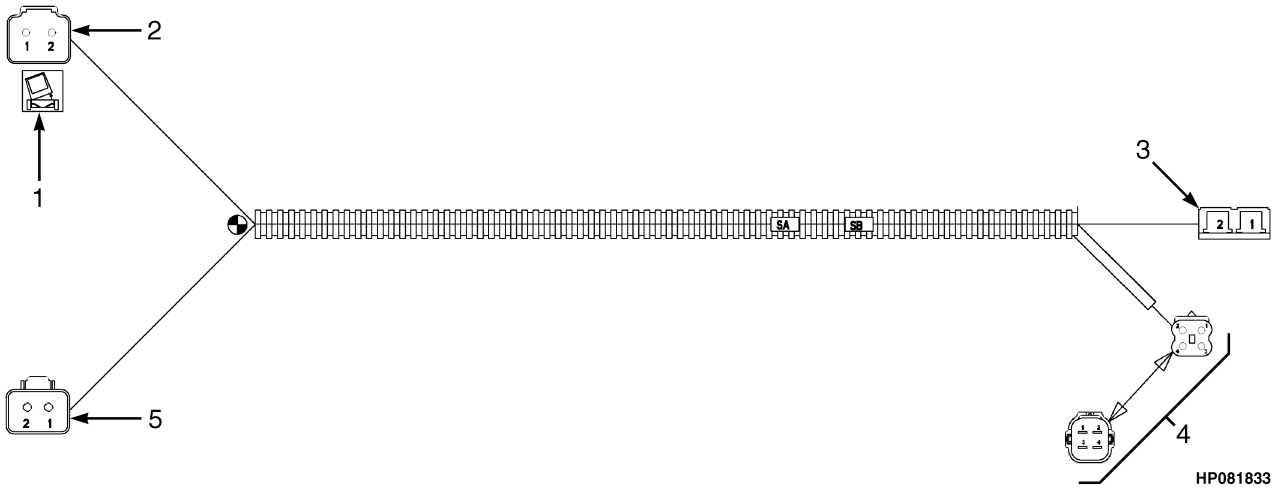
WIRE HARNESS (FIGURE 4-53)
POWERED CAB TILT



ITEM	PART NO.	DESCRIPTION	QTY
	1607476	Wire Harness (Powered Cab Tilt)	1
1	1605545	Label (Cab Tilt Switch)	1
2	. . . . .	Connector Assembly (C10 Frame Harness Conn.)	1
2	1493465	Connector (2 Pin)	1
2	1330414	Connector (Secondary Lock)	1
2	1363885	Terminal (Pin)	2
3	. . . . .	Connector Assembly (C20 Tilt Switch)	1
3	346330	Connector Body	1
3	1484375	Terminal	2
4	. . . . .	Connector Assembly (C40 Pump Diode)	1
4	1610950	Housing (Sealed) (4-Way)	1
4	1610941	Seal (Dummy)	2
4	1484656	Terminal (Socket)	2
4	1610954	Seal	2
4	1611029	Diode (1-Way)	1
5	. . . . .	Connector Assembly (C30 Tilt Pump)	1
5	1545202	Connector	1
5	1546697	Connector (Secondary Lock)	1
5	1493434	Terminal (Socket)	2

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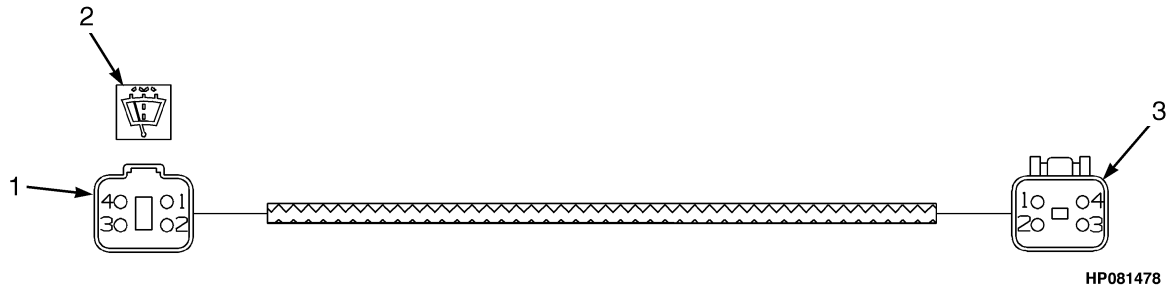
WIRE HARNESS (FIGURE 4-54)
REAR WIPER EXTENSION



ITEM	PART NO.	DESCRIPTION	QTY
	1545170	Wire Harness (Rear Wiper Extension)	1
1	. . . . .	Connector Assembly (CRP13 Side Console)	1
1	1489655	Connector (4 Way)	1
1	1330416	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	4
2	1570644	Label (Rear Wash/Wipe Switch) (Washer And Wiper)	1
3	. . . . .	Connector Assembly (CPS98 Rear Wiper Motor)	1
3	1489656	Connector (4-Way)	1
3	1489657	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	4

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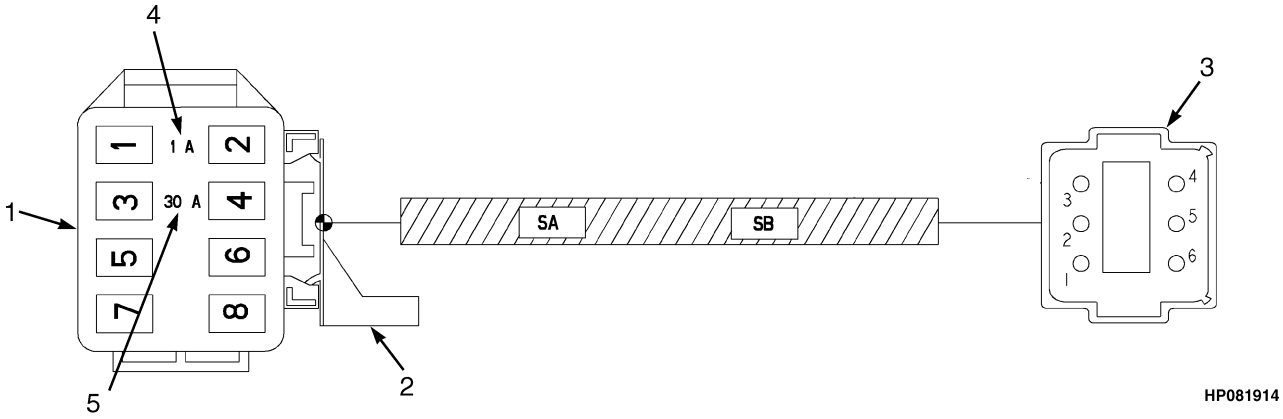
WIRE HARNESS (FIGURE 4-55)
SEALED FUSE BOX

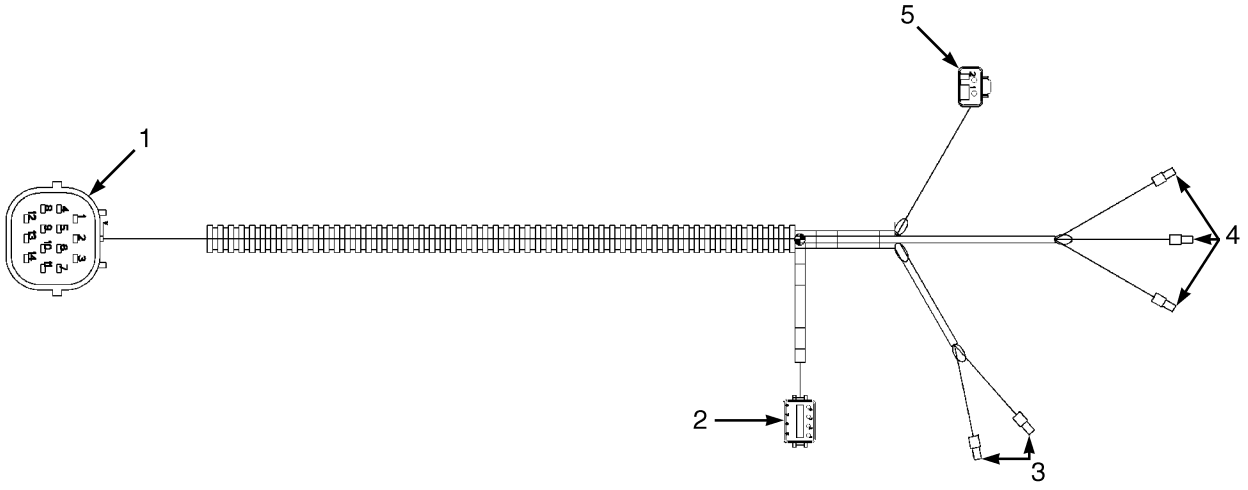


ITEM	PART NO.	DESCRIPTION	QTY
	~~4016659~~		
	4016657	Fuse Box	1
1	. . . . .	Connector Assembly (C20 Fuse Carrier)	1
1	1573113	Fuse Box	1
1	1573114	Cover	1
1	1573115	Terminal	2
1	1607778	Terminal	2
2	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	1
3	. . . . .	Connector Assembly (C10 Frame Connector)	1
3	1525589	Connector (6-Pin)	1
3	1330417	Connector (Secondary Lock)	1
3	1502712	Terminal (Pin)	2
3	1363885	Terminal (Pin)	4
4	1378661	Fuse (1 Amp)	1
5	1320669	Fuse (30 Amp)	1
	a 1607526	Boot	1
	a 4609580	Label (Fuse Box)	1

FOOTNOTES:

a Not Illustrated

WIRE HARNESS (FIGURE 4-56)
STEERING COLUMN — TIER III ENGINE



HP081770

ITEM	PART NO.	DESCRIPTION	QTY
	1595149	Wire Harness (Steering Column)	1
1	. . . . .	Connector Assembly (C10 Cabin)	1
1	1484592	Connector	1
1	1484593	Retainer	1
1	1484596	Terminal (Pin)	14
1	1484597	Seal	14
2	. . . . .	Connector Assembly (C50 Transmission Lever)	1
2	1502625	Connector (DT PLU 8-Socket)	1
2	1502626	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	8
3	. . . . .	Connector Assembly (C40 Master Warning)	2
3	1484394	Crimp Ferrule	1
4	. . . . .	Connector Assembly (C20 Direction Indicator Switch)	3
4	1484394	Crimp Ferrule	1
5	. . . . .	Connector Assembly (C30 Horn Button)	1
5	1484557	Connector (2 Socket)	1
5	1484558	Connector (Secondary Lock)	1
5	1463141	Terminal (Socket)	1
5	1484377	Plug	1

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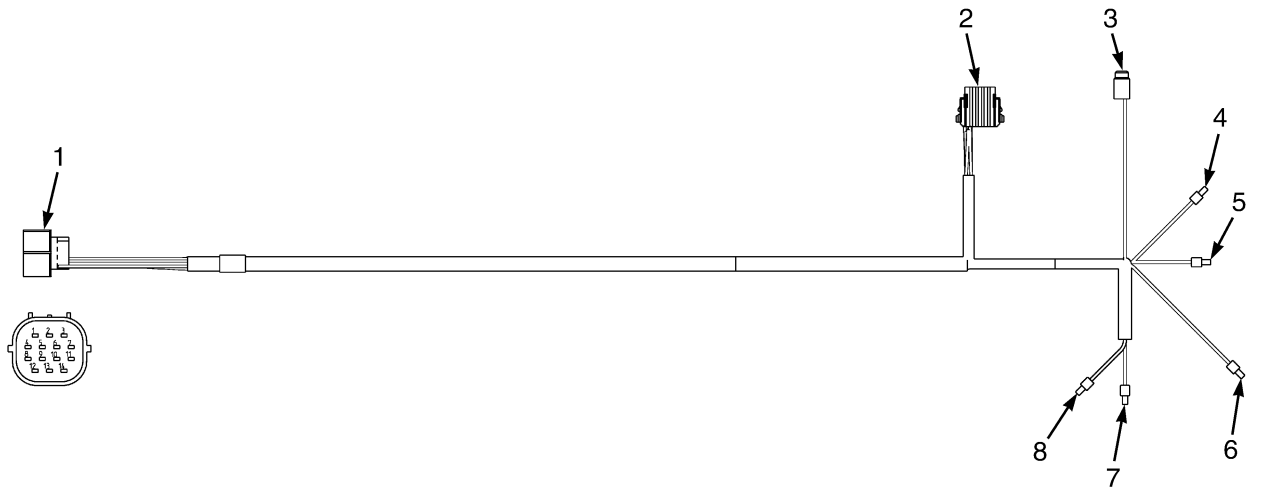
WIRE HARNESS (FIGURE 4-57)
STEERING COLUMN — TIER IV INTERIM ENGINE



HP082138

ITEM	PART NO.	DESCRIPTION	QTY
	2111600	Wire Harness (Steer Column)	1
1	. . . . .	Connector Assembly (CRP30 Steer Column - Underfloor)	1
1	1484592	Connector	1
1	1484593	Retainer	1
1	1484596	Terminal (Pin)	14
1	1484597	Seal	14
2	. . . . .	Connector Assembly (CPS29 Shift Lever)	1
2	1502625	Connector (DT PLU 8-Socket)	1
2	1502626	Connector (Secondary Lock)	1
2	1597773	Terminal	8
3	. . . . .	Connector Assembly (CPS83 Horn Button)	1
3	1484557	Connector (2 Socket)	1
3	1484558	Connector (Secondary Lock)	1
3	1463139	Terminal	1
3	1484377	Plug	1
4	. . . . .	Connector Assembly (TS66 Indicator Switch L)	1
4	1484394	Crimp Ferrule	1
5	. . . . .	Connector Assembly (TS64 Indicator Switch 54)	1
5	1484394	Crimp Ferrule	1
6	. . . . .	Connector Assembly (TS67 Indicator Switch R)	1
6	1484394	Crimp Ferrule	1
7	. . . . .	Connector Assembly (TS80 Master Warning)	1
7	1484394	Crimp Ferrule	1
8	. . . . .	Connector Assembly (TS81 Master Warning)	1
8	1484394	Crimp Ferrule	1

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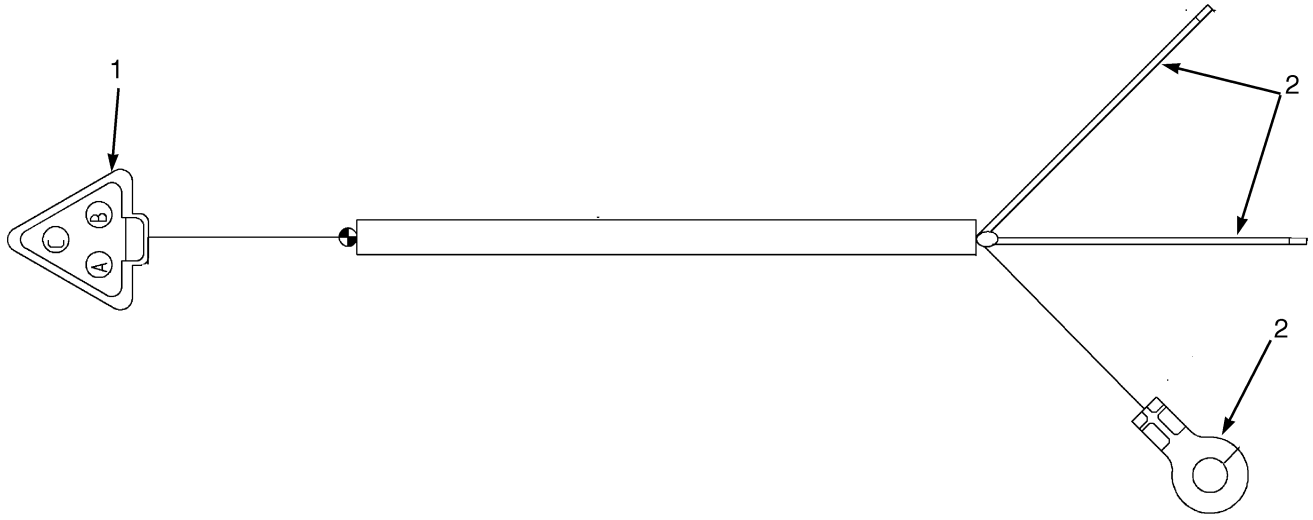
WIRE HARNESS (FIGURE 4-58)
SIDE INDICATOR



HP081959

ITEM	PART NO.	DESCRIPTION	QTY
	1672818	Wire Harness (Side Indicator)	1
1	. . . . .	Connector Assembly (C80 Front Drive Light Harness)	1
1	1493466	Connector (3-Way)	1
1	1330415	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	3
2	. . . . .	Connector Assembly (C90 RH/LH Side Indicators)	1
2	1484394	Crimp Ferrule	2
2	1493448	E-Ring	1

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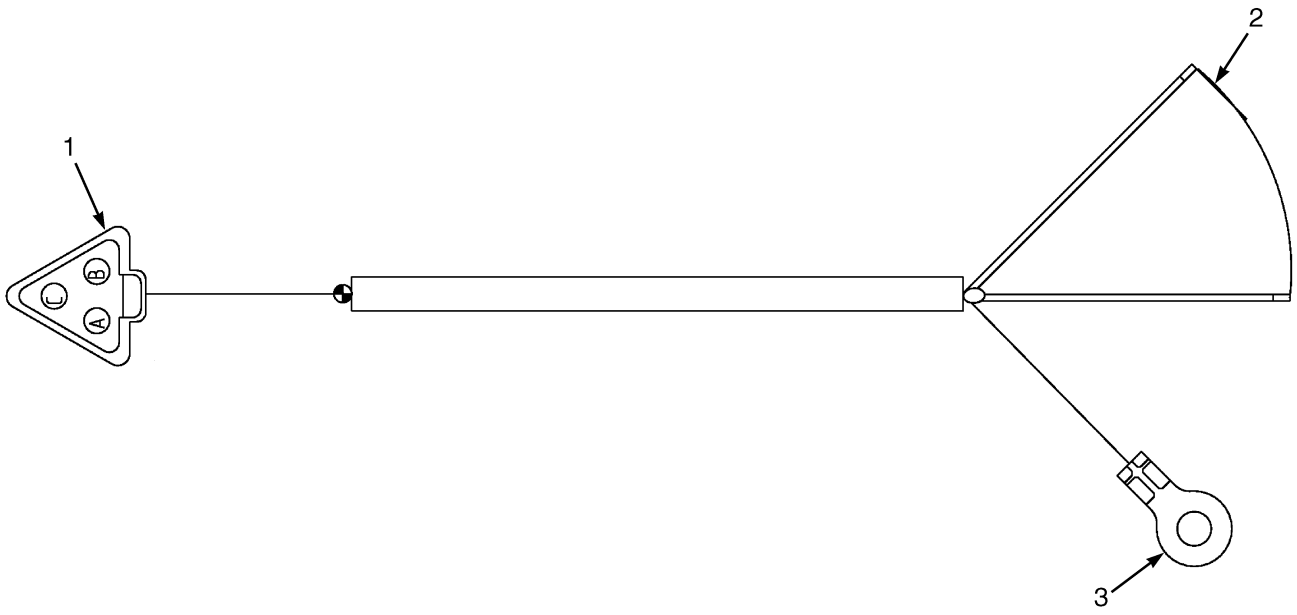
WIRE HARNESS (FIGURE 4-59)
SIDE AND INDICATOR LIGHTS — ALTERNATE PART



HP082060

ITEM	PART NO.	DESCRIPTION	QTY
	4601415	Wire Harness (Side And Indicator Lights)	1
1	. . . . .	Connector Assembly (CRP49/CRP67 Rear/Tail Lights)	1
1	1493466	Connector (3-Way)	1
1	1330415	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	3
2	1484394	Crimp Ferrule (LH/RH Indicator/Side Lights)	2
3	. . . . .	Connector Assembly (TS60/TS59 LH/RH Side/Indicator Ground)	1
3	1493448	E-Ring	1

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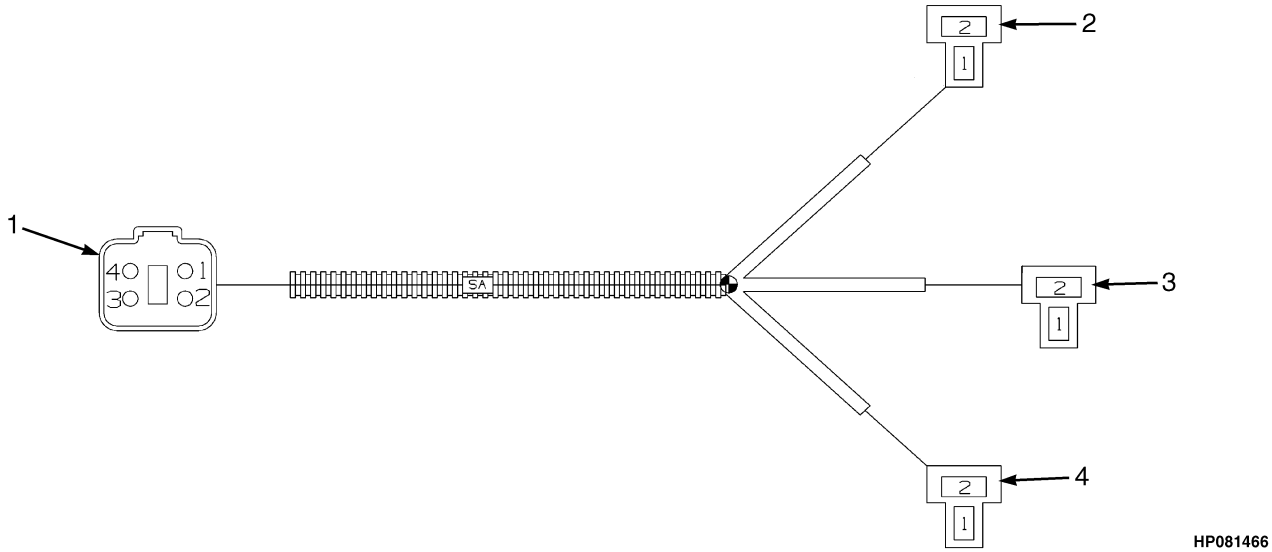
WIRE HARNESS (FIGURE 4-60)
WINDOW WASH PUMPS



ITEM	PART NO.	DESCRIPTION	QTY
	1547279	Wire Harness (Wash Pumps)	1
1	. . . . .	Connector Assembly (Frame)	1
1	1489655	Connector (4 Way)	1
1	1330416	Connector (Secondary Lock)	1
1	1330437	Terminal (Pin)	4
2	. . . . .	Connector Assembly (Rear Wash Pump)	1
2	1484395	Housing (Socket)	1
2	1484396	Terminal	2
3	. . . . .	Connector Assembly (Roof Wash Pump)	1
3	1484395	Housing (Socket)	1
3	1484396	Terminal	2
4	. . . . .	Connector Assembly (Front Wash Pump)	1
4	1484395	Housing (Socket)	1
4	1484396	Terminal	2

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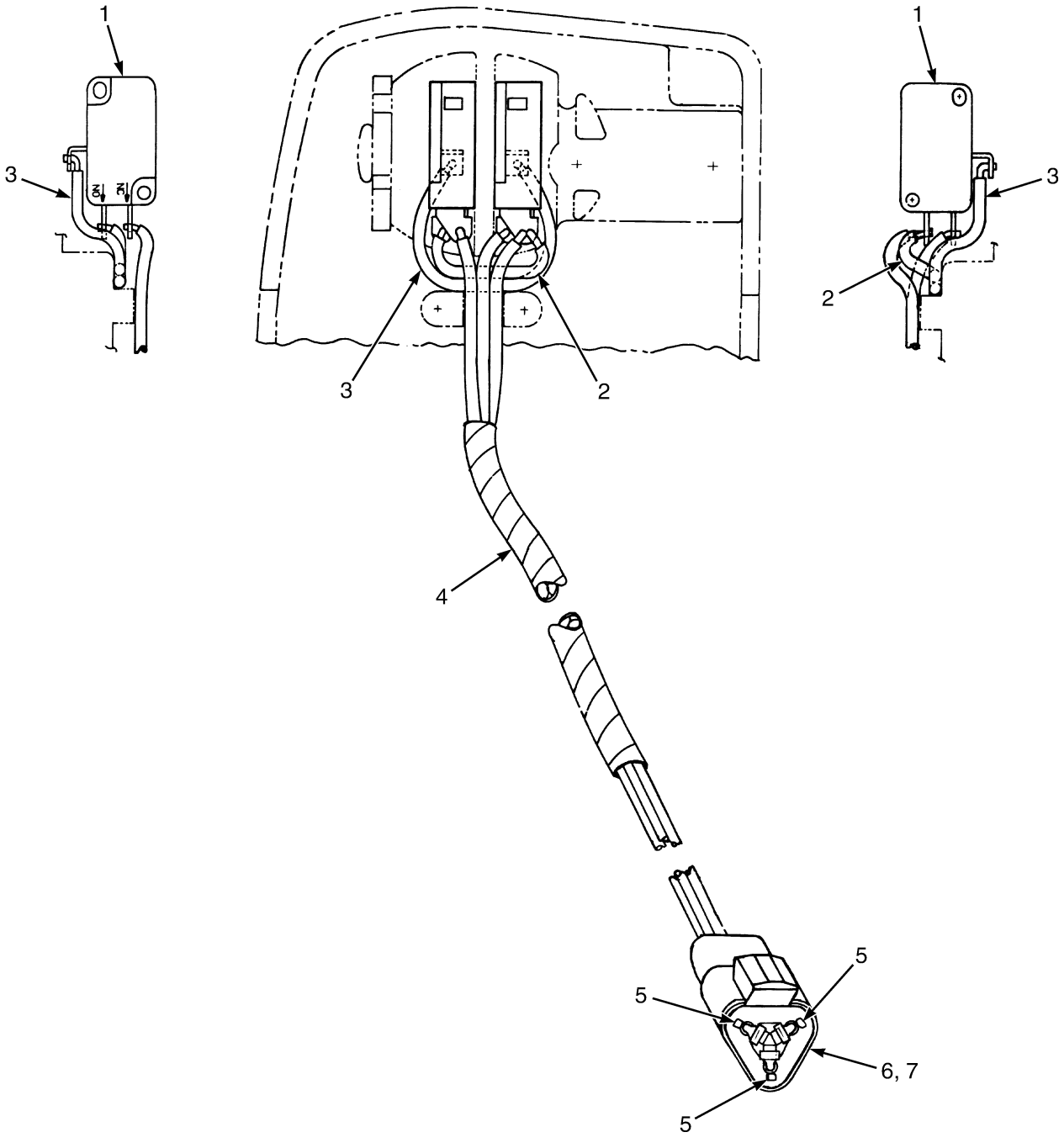
WIRE HARNESS AND SWITCH ASSEMBLY (FIGURE 4-61)
MONOTROL PEDAL



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WIRE HARNESS AND SWITCH ASSEMBLY
MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	1352090	Switch Assembly	1
1	353128	Switch	2
2	353217	Jumper Wire	1
3	353218	Jumper Wire	1
4	1352089	Wire Harness Assembly	1
5	1330435	Terminal	3
6	1330410	Connector (DT REC 3-Pin)	1
7	1330415	Connector (Secondary Lock)	1

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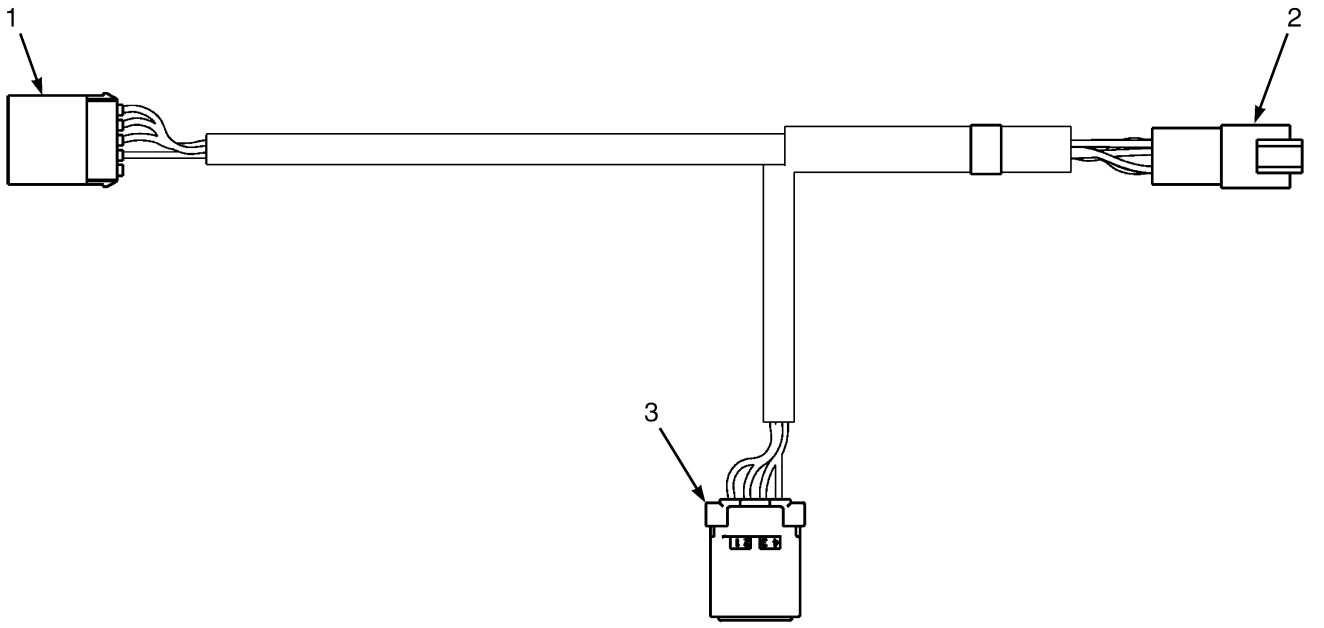
WIRE HARNESS (FIGURE 4-62)
DPF



HP082245

ITEM	PART NO.	DESCRIPTION	QTY
	4035276	Wire Harness (DPF)	1
1	. . . . .	Connector Assembly (CPS100 DPF Temperature)	1
1	4031205	Connector (10 Pole)	1
1	4010946	Terminal	4
2	. . . . .	Connector Assembly (CRP150 DPF Frame)	1
2	1623050	Housing	1
2	1330418	Connector (DT REC 8-Pin)	1
2	1330437	Terminal (Pin)	8
3	. . . . .	Connector Assembly (CPS03 DPF Pressure)	1
3	4010944	Connector (4 Way)	1
3	4010946	Terminal	4

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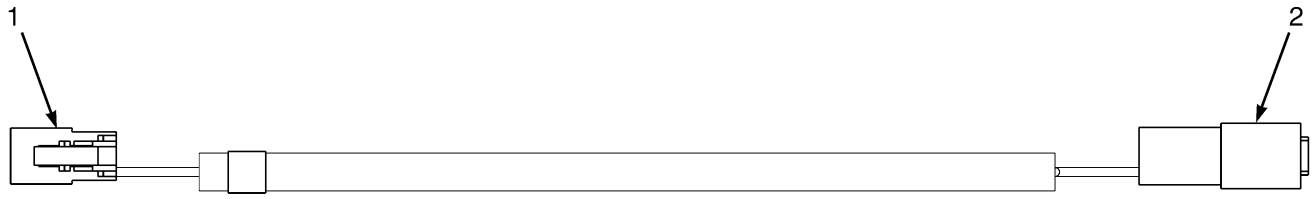
WIRE HARNESS (FIGURE 4-63)
WIF EXTENSION



HP082246

ITEM	PART NO.	DESCRIPTION	QTY
	4032868	Wire Harness (WIF Extension)	1
1	. . . . .	Connector Assembly (CPS128 WIF Extension)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Connector Assembly (CRP128 WIF Extension)	1
2	1493465	Connector (2 Pin)	1
2	1330414	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	2

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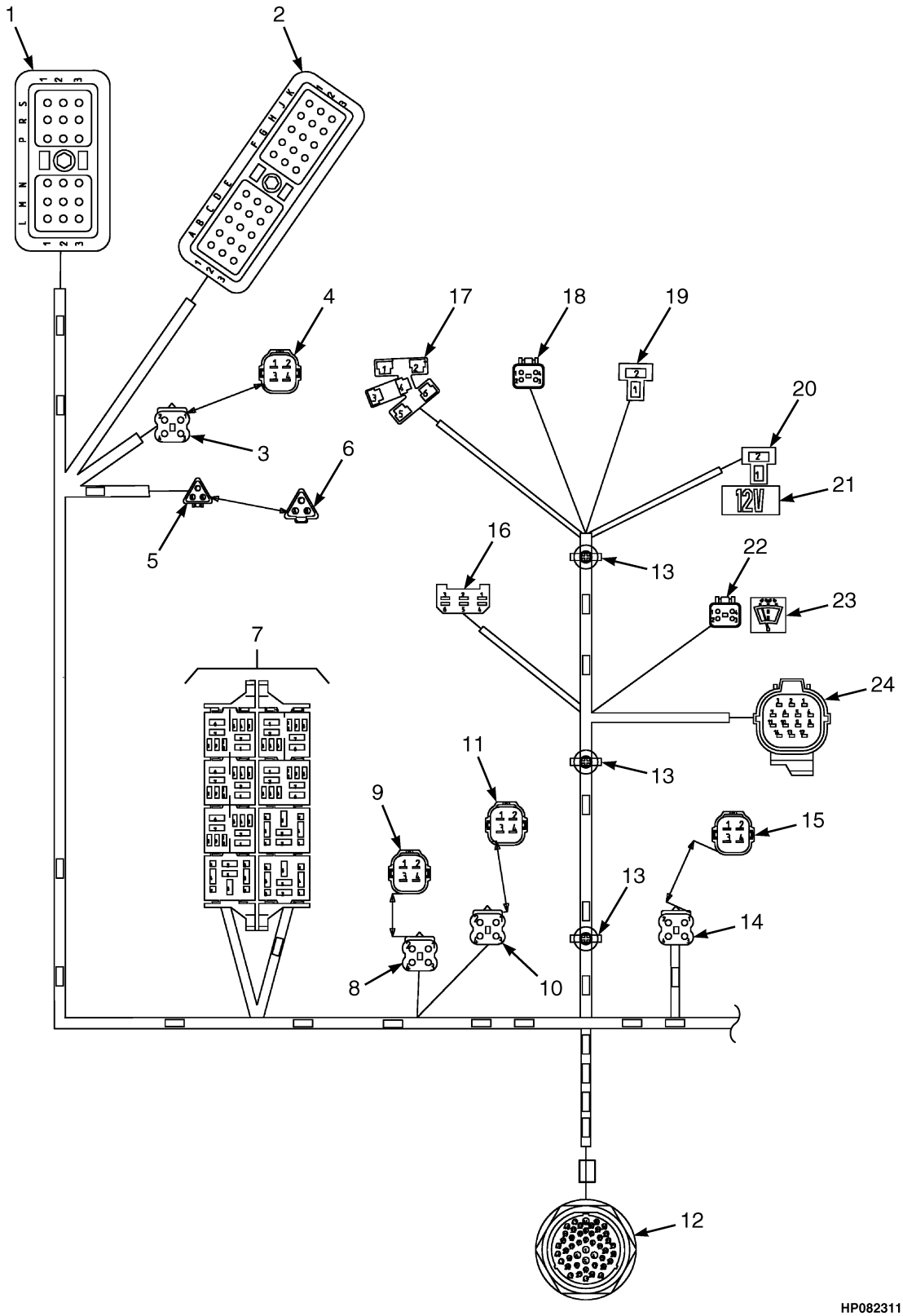
WIRE HARNESS (FIGURE 4-64)
CAB SIDE CONSOLE, PAGE 1 OF 3 — TIER III ENGINE



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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4065141	Wire Harness (Side Console)	1
1	. . . . .	Connector Assembly (CPS21 Transmission J1)	1
1	1602433	Connector	1
1	1323581	Plug	7
1	1532571	Terminal	11
2	. . . . .	Connector Assembly (CPS27 Transmission J2)	1
2	1602432	Connector	1
2	1323581	Plug	4
2	1532571	Terminal	25
2	1597773	Terminal	1
3	. . . . .	Connector Assembly (CPS34 Transmission Resistor)	1
3	1610950	Housing (Sealed) (4-Way)	1
3	1482658	Terminal	4
3	1482659	Seal (Rubber)	4
4	. . . . .	Insert (CRP34 Transmission Resistor)	1
4	1610949	Resistor	1
5	. . . . .	Connector Assembly (CPS66 End Resistor)	1
5	1484397	Connector (3-Way)	1
5	1463194	Connector (Secondary Lock)	1
5	1330439	Plug	1
5	1518112	Terminal (Socket)	2
6	. . . . .	Insert (CRP66 End Resistor)	1
6	1607772	Connector (Termination)	1
7	. . . . .	Relays (☞Figure 4-67)	1
8	. . . . .	Connector Assembly (CPS01 Diode FPLT)	1
8	1610950	Housing (Sealed) (4-Way)	1
8	1482658	Terminal	2
8	1482659	Seal (Rubber)	2
9	. . . . .	Insert (CRP01 Diode FPLT)	1
9	1610953	Diode	1
10	. . . . .	Connector Assembly (CPS17 Diode Main Power)	1
10	1610950	Housing (Sealed) (4-Way)	1
10	1482658	Terminal	4
10	1482659	Seal (Rubber)	4
11	. . . . .	Insert (CRP17 Diode Main Power)	1
11	1610953	Diode	1
12	. . . . .	Connector Assembly (CRP81 Side Console - Armrest)	1
12	1484664	Housing	1
12	1484685	Locknut	1
12	1330437	Terminal (Pin)	5
12	~~1570624~~		
	1463140	Terminal (Pin)	25
12	1484377	Plug	15
12	1484686	Washer (Spring)	1
13	1500927	Clip	3
14	. . . . .	Connector Assembly (CPS39 Lights Diode)	1
14	1610950	Housing (Sealed) (4-Way)	1
14	1482658	Terminal	2
14	1610941	Seal (Dummy)	2
14	1482659	Seal (Rubber)	4

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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
15	. . . . .	Insert (CRP39 Lights Diode)	1
15	1610953	Diode	1
16	. . . . .	Connector Assembly (CPS71 Wiper Timer)	1
16	1484676	Housing (Socket)	1
16	1484556	Terminal	6
17	. . . . .	Connector Assembly (CPS14 Key Switch)	1
17	370728	Connector Body	1
17	1484375	Terminal	4
18	. . . . .	Connector Assembly (CPS116 HVAC Unit)	1
18	1489656	Connector (4-Way)	1
18	1489657	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	4
19	. . . . .	Connector Assembly (CPS96 Map Light)	1
19	1465378	Connector Body	1
19	1484556	Terminal	2
20	. . . . .	Connector Assembly (CPS46 12V Plug)	1
20	1465378	Connector Body	1
20	1484556	Terminal	2
21	1570645	Label (12 Volt)	1
22	. . . . .	Connector Assembly (CPS74 Side Console - Wiper Rear)	1
22	1489656	Connector (4-Way)	1
22	1489657	Connector (Secondary Lock)	1
22	1330438	Terminal (Socket)	4
23	1570644	Label (Rear Wash/Wipe Switch)	1
24	. . . . .	Connector Assembly (CRP63 Side Console - Cab)	1
24	1484654	Connector (14-Way)	1
24	1484655	Retainer (Socket)	1
24	1482658	Terminal	9
24	1484611	Seal (Blanking)	1
24	1484708	Terminal (Socket)	4
24	1518112	Terminal (Socket)	9

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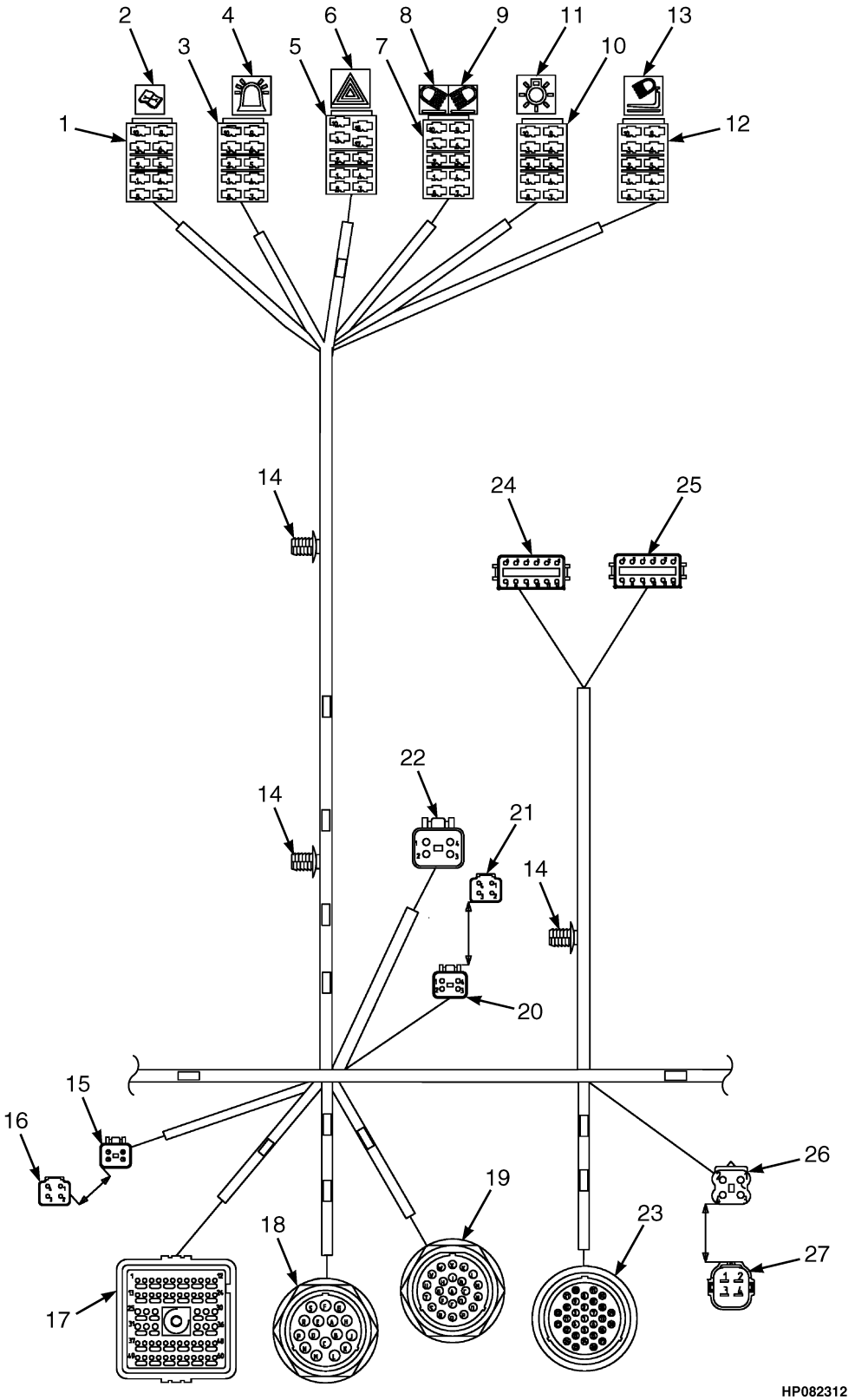
WIRE HARNESS (FIGURE 4-65)
CAB SIDE CONSOLE, PAGE 2 OF 3 — TIER III ENGINE



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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4065141	Wire Harness (Side Console)	1
1	. . . . .	Connector Assembly (CPS85 Diagnostic Switch)	1
1	1484555	Connector Body (10-Way)	1
1	233141	Terminal	2
2	. . . . .	Label	1
3	. . . . .	Connector Assembly (CPS47 Beacon Strobe Switch)	1
3	1484555	Connector Body (10-Way)	1
3	233141	Terminal	4
4	1570639	Label (Beacon Switch)	1
5	. . . . .	Connector Assembly (CPS77 Hazard Switch)	1
5	1484675	Connector Body	1
5	233141	Terminal	8
6	1570638	Label (Hazard Light)	1
7	. . . . .	Connector Assembly (CPS48 Flood RR Drive Lights Switch)	1
7	1484555	Connector Body (10-Way)	1
7	233141	Terminal	4
8	1497361	Label (Front Worklight Switch)	1
9	1497362	Label (Rear Worklight Switch)	1
10	. . . . .	Connector Assembly (CPS52 Side/Front Lights Switch)	1
10	1484555	Connector Body (10-Way)	1
10	233141	Terminal	4
11	1570641	Label (Roadlight Switch)	1
12	. . . . .	Connector Assembly (CPS53 Mast/Attachment Lights Switch)	1
12	1484555	Connector Body (10-Way)	1
12	233141	Terminal	2
13	1570643	Label (Mast And Attachment Worklight)	1
14	1500927	Clip	3
15	. . . . .	Connector Assembly (CPS107 DC/DC Convertor)	1
15	1632865	Connector (DTP PLU 4 Socket)	1
15	1514603	Connector (Secondary Lock)	1
15	1330439	Plug	1
15	1493434	Terminal (Socket)	3
16	. . . . .	Insert (CRP107 DC/DC Convertor)	1
16	1514597	Connector (DTP REC 4-Pin)	1
16	1514598	Connector (Secondary Lock)	1
16	1330439	Plug	4
17	. . . . .	Connector Assembly (CRP07 Cab Signals)	1
17	1484363	Housing (Socket)	1
17	1484662	Pin Retainer	1
17	1330437	Terminal (Pin)	8
17	~~1570624~~		
	1463140	Terminal (Pin)	36
17	1484377	Plug	13
17	1610945	Terminal	2
18	. . . . .	Connector Assembly (CRP06 Cab Power)	1
18	1484665	Housing	1
18	1484685	Locknut	1
18	1484709	Terminal (Pin)	16
18	1484686	Washer (Spring)	1
19	. . . . .	Connector Assembly (CRP35 Auxiliary Signals)	1

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CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
19	1484666	Housing	1
19	1484685	Locknut	1
19	1330437	Terminal (Pin)	10
19	1330439	Plug	21
19	1484686	Washer (Spring)	1
20	. . . . .	Connector Assembly (CPS70 Engine Shut-Down Jumper)	1
20	1489656	Connector (4-Way)	1
20	1489657	Connector (Secondary Lock)	1
20	1330438	Terminal (Socket)	4
21	. . . . .	Connector Assembly (CRP70 Engine Shut-Down Jumper)	1
21	1489655	Connector (4 Way)	1
21	1330416	Connector (Secondary Lock)	1
21	1330437	Terminal (Pin)	2
21	1330439	Plug	2
22	. . . . .	Connector Assembly (CPS28 Side Console Wash Pumps)	1
22	1489656	Connector (4-Way)	1
22	1489657	Connector (Secondary Lock)	1
22	1330438	Terminal (Socket)	4
23	. . . . .	Connector Assembly (CPS33 Side Console - Underfloor)	1
23	1484650	Connector (Socket)	1
23	1330438	Terminal (Socket)	25
23	1330439	Plug	4
23	1597773	Terminal	2
24	. . . . .	Connector Assembly (CPS162 Hydraulic Relays 2)	1
24	1493428	Connector (12-Way)	1
24	1500913	Connector (Secondary Lock)	1
24	1330438	Terminal (Socket)	7
25	. . . . .	Connector Assembly (CPS161 Hydraulic Relays 1)	1
25	1493428	Connector (12-Way)	1
25	1500913	Connector (Secondary Lock)	1
25	1330438	Terminal (Socket)	7
26	. . . . .	Connector Assembly (CPS163 Diode Lift Lower)	1
26	1610950	Housing (Sealed) (4-Way)	1
26	1482658	Terminal	4
26	1482659	Seal (Rubber)	4
27	. . . . .	Insert (CRP163 Diode Lift Lower)	1
27	1610953	Diode	1

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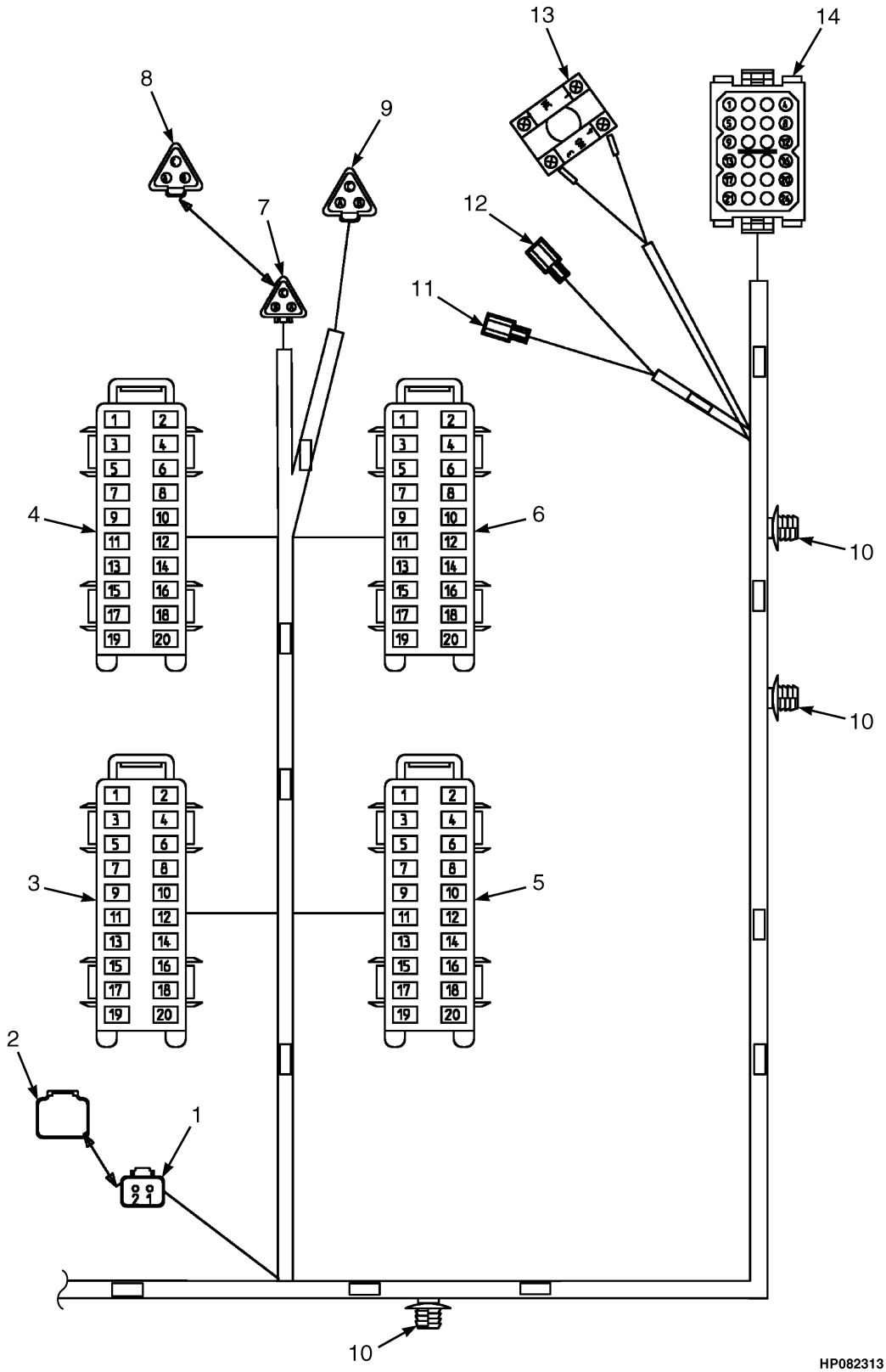
WIRE HARNESS (FIGURE 4-66)
CAB SIDE CONSOLE, PAGE 3 OF 3 — TIER III ENGINE



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CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4065141	Wire Harness (Side Console)	1
1	. . . . .	Connector Assembly (CPS145 Accessory Socket 24V)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Insert (CRP145 Accessory Socket 24V)	1
2	4035905	Cap	1
3	. . . . .	Fuses (CPS51 Fuses 21-30) (☞Figure 4-67)	1
3	1484681	10 Way Fuse Box Connector	1
3	~~1389477~~		
	1484682	Secondary Lock	1
3	1389479	Terminal	5
3	1489957	Connector (1-Way)	6
3	1490249	Connector (1-Way)	3
3	1610952	Terminal	1
3	1389480	Terminal	1
3	1496884	Terminal (3-Way)	3
4	. . . . .	Fuses (CPS37 Fuses 1-10) (☞Figure 4-67)	1
4	1484681	10 Way Fuse Box Connector	1
4	~~1389477~~		
	1484682	Secondary Lock	1
4	1389479	Terminal	4
4	1489957	Connector (1-Way)	10
4	1490249	Connector (1-Way)	2
4	1496884	Terminal (3-Way)	1
5	. . . . .	Fuses (CPS109 Fuses 31-40) (☞Figure 4-67)	1
5	1484681	10 Way Fuse Box Connector	1
5	~~1389477~~		
	1484682	Secondary Lock	1
5	1389479	Terminal	1
5	1489957	Connector (1-Way)	6
5	1490249	Connector (1-Way)	1
5	1496884	Terminal (3-Way)	1
6	. . . . .	Fuses (CPS50 Fuses 11-20) (☞Figure 4-67)	1
6	1484681	10 Way Fuse Box Connector	1
6	~~1389477~~		
	1484682	Secondary Lock	1
6	1389479	Terminal	7
6	1489957	Connector (1-Way)	11
6	1490249	Connector (1-Way)	1
6	1496884	Terminal (3-Way)	1
7	. . . . .	Connector Assembly (CPS19 Diagnostic Connector)	1
7	1484397	Connector (3-Way)	1
7	1463194	Connector (Secondary Lock)	1
7	1330439	Plug	1
7	1518112	Terminal (Socket)	2
8	. . . . .	Insert (CRP19 Diagnostic Connector)	1
8	4035906	Cap	1
9	. . . . .	Connector Assembly (CRP05 Lights Jumper)	1
9	1493466	Connector (3-Way)	1

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CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
9	1330415	Connector (Secondary Lock)	1
9	1330437	Terminal (Pin)	3
10	1490245	Clip	3
11	. . . . .	Connector Assembly (TS83 Buzzer)	1
11	1610947	Receptacle	1
11	1624103	Terminal	1
12	. . . . .	Connector Assembly (TS82 Buzzer)	1
12	1610947	Receptacle	1
12	1624103	Terminal	1
13	. . . . .	Connector Assembly (CRS01 Park Brake Switch Element)	1
13	1561756	Cover (Lower)	1
13	1567676	Cover (Upper)	1
13	1570606	Strap Clamp	1
13	1658852	Two Way Switch Element (Park Brake)	1
13	1484394	Crimp Ferrule	4
14	. . . . .	Connector Assembly (CPS94 Instrument Cluster)	1
14	1484677	Plug (24-Way)	1
14	1484716	Terminal	15

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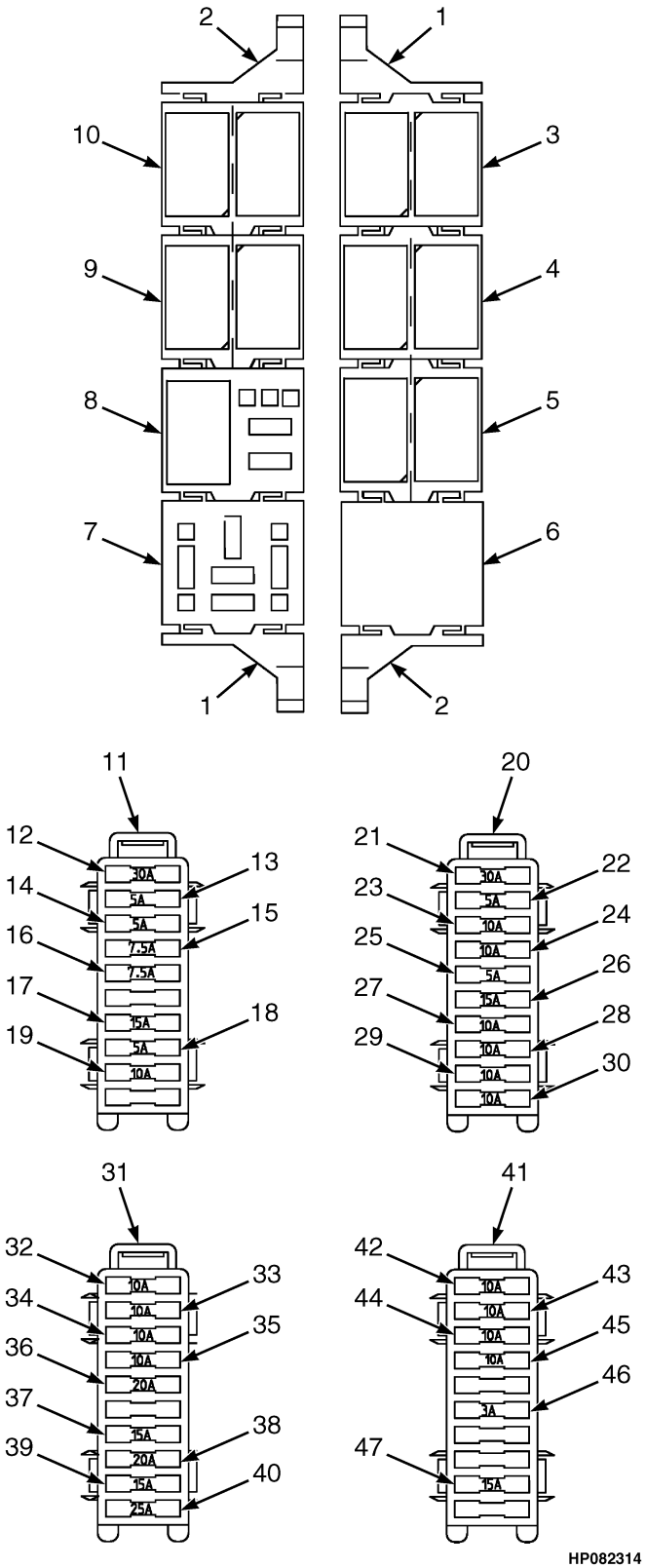
RELAYS AND FUSES (FIGURE 4-67)
TIER III ENGINE



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RELAYS AND FUSES
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	4065141	Wire Harness (Side Console)	1
1	1484714	Clip , Side-Mounting	2
2	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	2
3	. . . . .	Relays (CPS62 Main Lights/Flood Lights)	1
3	1484683	Relay (Base)	1
3	1389479	Terminal	1
3	1489957	Connector (1-Way)	1
3	1490249	Connector (1-Way)	3
3	1570602	Terminal (Socket)	3
4	. . . . .	Relays (CPS13 Neutral/Start Inhibit)	1
4	1484683	Relay (Base)	1
4	1489960	Relay (24 Volt)	2
4	1489957	Connector (1-Way)	1
4	1490249	Connector (1-Way)	4
4	1570602	Terminal (Socket)	3
5	. . . . .	Relay (CPS36 Reverse Lights)	1
5	1484683	Relay (Base)	1
5	1489960	Relay (24 Volt)	1
5	1489957	Connector (1-Way)	2
5	1570602	Terminal (Socket)	2
6	. . . . .	Relay (CPS16 Main Power)	1
6	1484684	Single Mini Relay Base	1
6	1610946	Relay (24 Volt, 70 Amp)	1
6	1489957	Connector (1-Way)	2
6	1610952	Terminal	2
7	. . . . .	Relay (CPS76 Flasher Unit)	1
7	1484684	Single Mini Relay Base	1
7	1489957	Connector (1-Way)	3
8	. . . . .	Relay (CPS15 Ignition)	1
8	1484683	Relay (Base)	1
8	1489960	Relay (24 Volt)	2
8	1389479	Terminal	2
8	1489957	Connector (1-Way)	1
8	1570602	Terminal (Socket)	1
9	. . . . .	Relay (CPS108 12V)	1
9	1484683	Relay (Base)	1
9	1489960	Relay (24 Volt)	1
9	1489957	Connector (1-Way)	3
9	1570602	Terminal (Socket)	1
10	. . . . .	Relays (CPS84 Seat Switch/Horn)	1
10	1484683	Relay (Base)	1
10	1489960	Relay (24 Volt)	2
10	1389479	Terminal	2
10	1489957	Connector (1-Way)	5
10	1570602	Terminal (Socket)	2
11	. . . . .	Fuses (CPS37 Fuses 1-10)	1
12	1320669	Fuse (30 Amp) (Engine Start)	1
13	370646	Fuse (5 Amp) (ECM Ignition)	1
14	370646	Fuse (5 Amp) (OPS System)	1
15	1300057	Fuse (7.5 Amp) (Transmission)	1

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RELAYS AND FUSES
TIER III ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
16	1300057	Fuse (7.5 Amp) (Transmission B+)	1
17	1310630	Fuse (15 Amp) (Attachment Controls)	1
18	370646	Fuse (5 Amp) (Park Brake Solenoid)	1
19	370647	Fuse (10 Amp) (Instrumentation)	1
20	. . . . .	Fuses (CPS50 Fuses 11-20)	1
21	1320669	Fuse (30 Amp) (Flood Lights)	1
22	370646	Fuse (5 Amp) (Strobe Light B+)	1
23	370647	Fuse (10 Amp) (Brake Lights)	1
24	370647	Fuse (10 Amp) (Front Drive Lights)	1
25	370646	Fuse (5 Amp) (Interior Lighting)	1
26	1310630	Fuse (15 Amp) (Mast Attachment Lights)	1
27	370647	Fuse (10 Amp) (Direction Indicators)	1
28	370647	Fuse (10 Amp) (Side/Tail Lights)	1
29	370647	Fuse (10 Amp) (Rear Drive Lights)	1
30	370647	Fuse (10 Amp) (Reverse Lights/Alarm/Strobe)	1
31	. . . . .	Fuses (CPS51 Fuses 21-30)	1
32	370647	Fuse (10 Amp) (Front Screen Wash Wipe)	1
33	370647	Fuse (10 Amp) (Roof Screen Wash Wipe)	1
34	370647	Fuse (10 Amp) (Rear Screen Wash Wipe)	1
35	370647	Fuse (10 Amp) (Horn)	1
36	370648	Fuse (20 Amp) (Cab Tilt Power Assist)	1
37	1310630	Fuse (15 Amp) (Seat Suspension Compressor)	1
38	370648	Fuse (20 Amp) (Heater/AC/Ventilation Fan)	1
39	1310630	Fuse (15 Amp) (AC Condensor)	1
40	1300134	Fuse (25 Amp) (Oil Cooler Fan)	1
41	. . . . .	Fuses (CPS109 Fuses 31-40)	1
42	370647	Fuse (10 Amp) (Power Socket 12V)	1
43	370647	Fuse (10 Amp) (Radio/CB/Intercom)	1
44	370647	Fuse (10 Amp) (Converter for Accessories)	1
45	370647	Fuse (10 Amp) (Hazard Flashers)	1
46	1337828	Fuse (3 Amp) (12V Relay)	1
47	1310630	Fuse (15 Amp) (Power Socket 24V)	1

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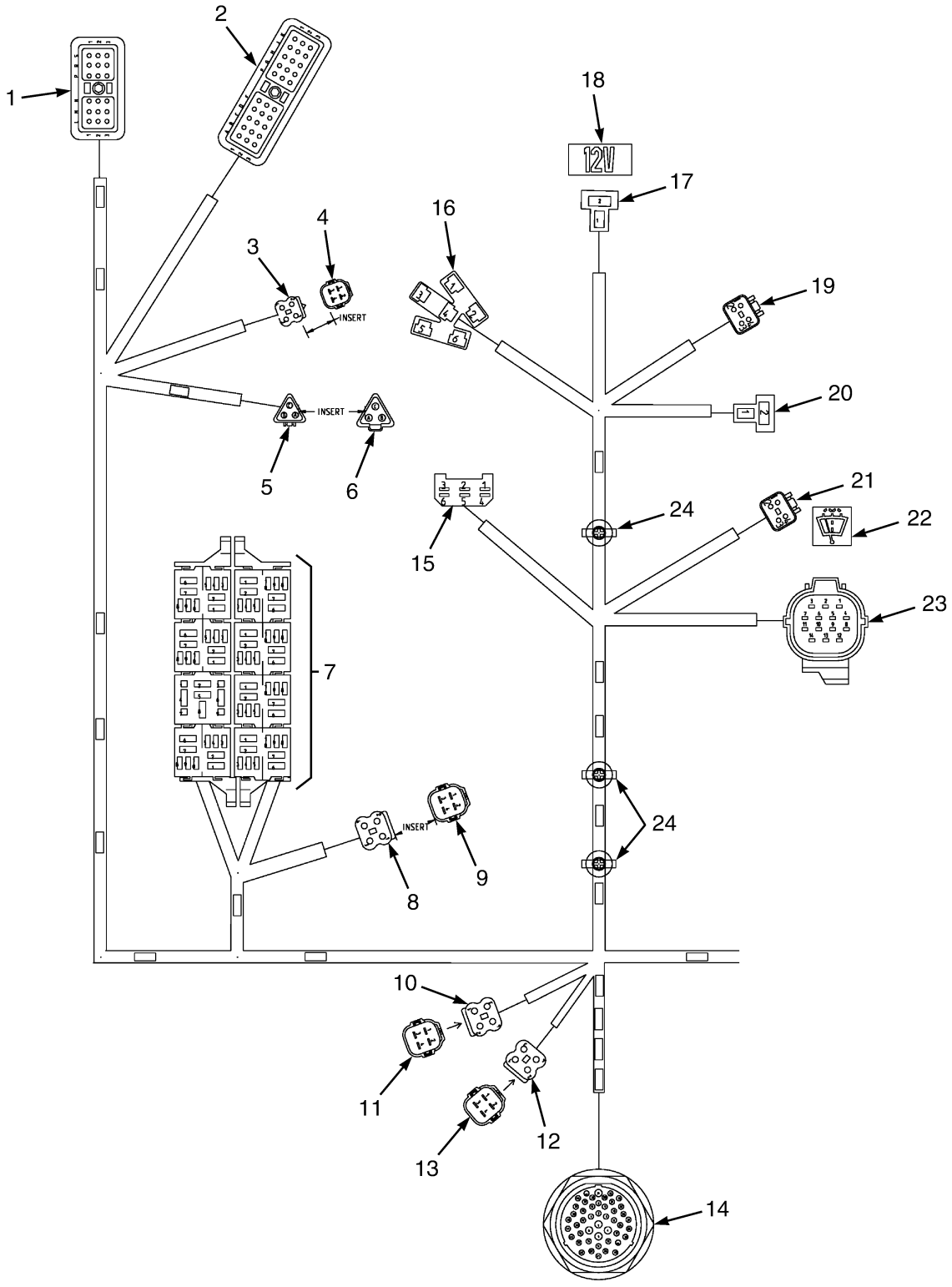
WIRE HARNESS (FIGURE 4-68)

CAB SIDE CONSOLE, PAGE 1 OF 3 — TIER IV INTERIM ENGINE (S/N B236E01681L →)



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CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
	4060733	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (CPS21 Transmission J1)	1
1	1602433	Connector	1
1	1323581	Plug	7
1	1532571	Terminal	11
2	. . . . .	Connector Assembly (CPS27 Transmission J2)	1
2	1602432	Connector	1
2	1323581	Plug	4
2	1521989	Terminal	1
2	1532571	Terminal	25
3	. . . . .	Connector Assembly (CPS34 Transmission Resistors)	1
3	1610950	Housing (Sealed) (4-Way)	1
3	1482658	Terminal	4
4	. . . . .	Insert (CRP34 Transmission Resistors)	1
4	1610949	Resistor	1
5	. . . . .	Connector Assembly (CPS66 End Resistor)	1
5	1484397	Connector (3-Way)	1
5	1330439	Plug	1
5	1518112	Terminal (Socket)	2
5	1532664	Connector (Secondary Lock)	1
6	. . . . .	Insert (CRP66 End Resistor)	1
6	1607772	Connector (Termination)	1
7	. . . . .	Relays (☞Figure 4-71)	1
8	. . . . .	Connector Assembly (CPS17 Diode Main Power)	1
8	1610950	Housing (Sealed) (4-Way)	1
8	1482658	Terminal	4
8	1482659	Seal (Rubber)	4
9	. . . . .	Insert (CRP17 Diode Main Power)	1
9	1610953	Diode	1
10	. . . . .	Connector Assembly (CPS01 Diode FPLT)	1
10	1610950	Housing (Sealed) (4-Way)	1
10	1482658	Terminal	2
10	1482659	Seal (Rubber)	2
11	. . . . .	Insert (CRP01 Diode FPLT)	1
11	1610953	Diode	1
12	. . . . .	Connector Assembly (CPS163 Diode Lift/Lower)	1
12	1610950	Housing (Sealed) (4-Way)	1
12	1482658	Terminal	4
12	1482659	Seal (Rubber)	4
13	. . . . .	Insert (CRP163 Diode Lift/Lower)	1
13	1610953	Diode	1
14	. . . . .	Connector Assembly (CRP81 Side Console Armrest)	1
14	1484664	Housing	1
14	1484685	Locknut	1
14	1330437	Terminal (Pin)	5
14	~~1570624~~		
	1463140	Terminal (Pin)	23
14	1484377	Plug	19
14	1484686	Washer (Spring)	1
15	. . . . .	Connector Assembly (CPS71 Wiper Timer)	1

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CAB SIDE CONSOLE, PAGE 1 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
15	1484676	Housing (Socket)	1
15	1484556	Terminal	6
16	. . . . .	Connector Assembly (CPS14 Key Switch)	1
16	370728	Connector Body	1
16	1484375	Terminal	4
17	. . . . .	Connector Assembly (CPS46 12V Plug)	1
17	1465378	Connector Body	1
17	1484556	Terminal	2
18	1570645	Label (12 Volt)	1
19	. . . . .	Connector Assembly (CPS116 HVAC Unit)	1
19	1489656	Connector (4-Way)	1
19	1489657	Connector (Secondary Lock)	1
19	1330438	Terminal (Socket)	4
20	. . . . .	Connector Assembly (CPS96 MAP Light)	1
20	1465378	Connector Body	1
20	1484556	Terminal	2
21	. . . . .	Connector Assembly (CPS74 Side Console-Rear Wiper)	1
21	1489656	Connector (4-Way)	1
21	1489657	Connector (Secondary Lock)	1
21	1330438	Terminal (Socket)	4
22	1570644	Label (Rear Wash/Wipe Switch)	1
23	. . . . .	Connector Assembly (CRP63 Side Console-Closed Cab)	1
23	1484654	Connector (14-Way)	1
23	1484655	Retainer (Socket)	1
23	1482658	Terminal	9
23	1484611	Seal (Blanking)	1
23	1484708	Terminal (Socket)	4
23	1484595	Seal	4
23	1484597	Seal	9
24	1500927	Clip	3

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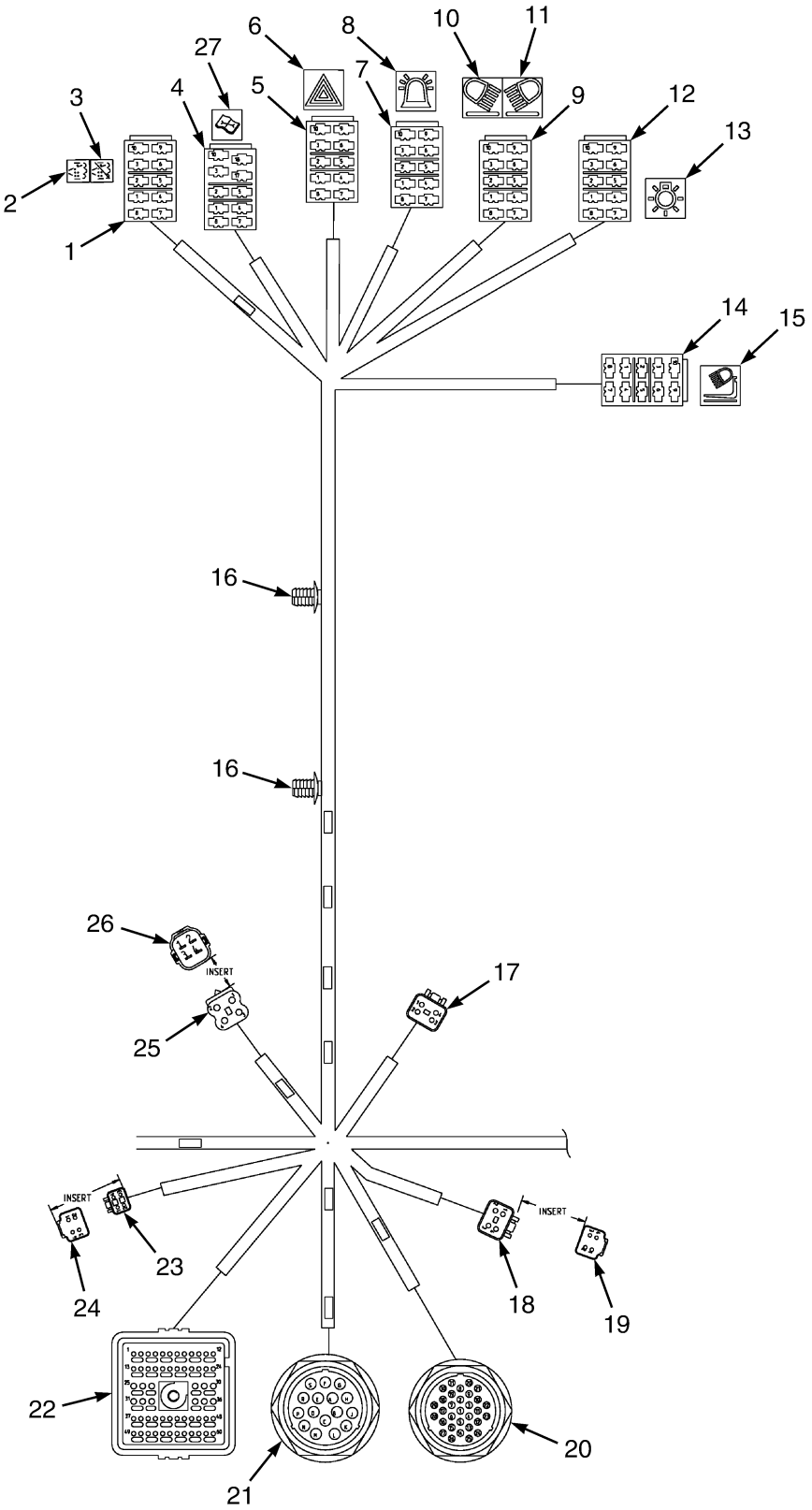
WIRE HARNESS (FIGURE 4-69)

CAB SIDE CONSOLE, PAGE 2 OF 3 — TIER IV INTERIM ENGINE (S/N B236E01681L →)



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CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
	4060733	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (CPS73 Regen Engine Disable Switch)	1
1	1484555	Connector Body (10-Way)	1
1	233141	Terminal	4
2	. . . . .	Label (Manual Regen Switch)	1
3	. . . . .	Label (Regen Inhibit Switch)	1
4	. . . . .	Connector Assembly (CPS85 Diagnostic Switch)	1
4	1484555	Connector Body (10-Way)	1
4	233141	Terminal	2
5	. . . . .	Connector Assembly (CPS77 Hazard Switch)	1
5	1484675	Connector Body	1
5	233141	Terminal	8
6	1570638	Label (Hazard Light)	1
7	. . . . .	Connector Assembly (CPS47 Beacon/Strobe Switch)	1
7	1484555	Connector Body (10-Way)	1
7	233141	Terminal	4
8	1570639	Label (Beacon Switch)	1
9	. . . . .	Connector Assembly (CPS48 Flood/RR Drive Lights Switch)	1
9	1484555	Connector Body (10-Way)	1
9	233141	Terminal	4
10	1497361	Label (Front Worklight Switch)	1
11	1497362	Label (Rear Worklight Switch)	1
12	. . . . .	Connector Assembly (CPS53 Mast/Attachment Lights Switch)	1
12	1484555	Connector Body (10-Way)	1
12	233141	Terminal	2
13	1570641	Label (Roadlight Switch)	1
14	. . . . .	Connector Assembly (CPS52 Side/Front Lights Switch)	1
14	1484555	Connector Body (10-Way)	1
14	233141	Terminal	4
15	1570643	Label (Mast And Attachment Worklight)	1
16	1500927	Clip	2
17	. . . . .	Connector Assembly (CPS28 Side Console/Wash Pumps)	1
17	1489656	Connector (4-Way)	1
17	1489657	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	4
18	. . . . .	Connector Assembly (CPS70 Engine Shutdown Jumper)	1
18	1489656	Connector (4-Way)	1
18	1489657	Connector (Secondary Lock)	1
18	1330438	Terminal (Socket)	4
19	. . . . .	Insert (CRP70 Engine Shutdown Jumper)	1
19	1489655	Connector (4 Way)	1
19	1330416	Connector (Secondary Lock)	1
19	1330437	Terminal (Pin)	2
19	1330439	Plug	2
20	. . . . .	Connector Assembly (CRP35 Auxiliary Signals)	1
20	1484666	Housing	1
20	1484685	Locknut	1
20	1330437	Terminal (Pin)	14
20	1330439	Plug	17
20	1484686	Washer (Spring)	1

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CAB SIDE CONSOLE, PAGE 2 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
21	. . . . .	Connector Assembly (CRP06 Cab Power)	1
21	1484665	Housing	1
21	1484685	Locknut	1
21	1484709	Terminal (Pin)	16
21	1484686	Washer (Spring)	1
22	. . . . .	Connector Assembly (CRP07 Cab Signals)	1
22	1484363	Housing (Socket)	1
22	1484662	Pin Retainer	1
22	1330437	Terminal (Pin)	10
22	1330439	Plug	2
22	~~1570624~~ 1463140	Terminal (Pin)	38
22	1484377	Plug	6
22	1610945	Terminal	2
23	. . . . .	Connector Assembly (CPS107 DC/DC Convertor)	1
23	1632865	Connector (DTP PLU 4 Socket)	1
23	1514603	Connector (Secondary Lock)	1
23	1330439	Plug	1
23	1493434	Terminal (Socket)	3
24	. . . . .	Insert (CRP107 DC/DC Convertor)	1
24	1514597	Connector (DTP REC 4-Pin)	1
24	1330439	Plug	4
25	. . . . .	Connector Assembly (CPS39 Lights Diode)	1
25	1610950	Housing (Sealed) (4-Way)	1
25	1482658	Terminal	4
25	1482659	Seal (Rubber)	4
26	. . . . .	Insert (CRP39 Lights Diode)	1
26	1610953	Diode	1
27	. . . . .	Label	1

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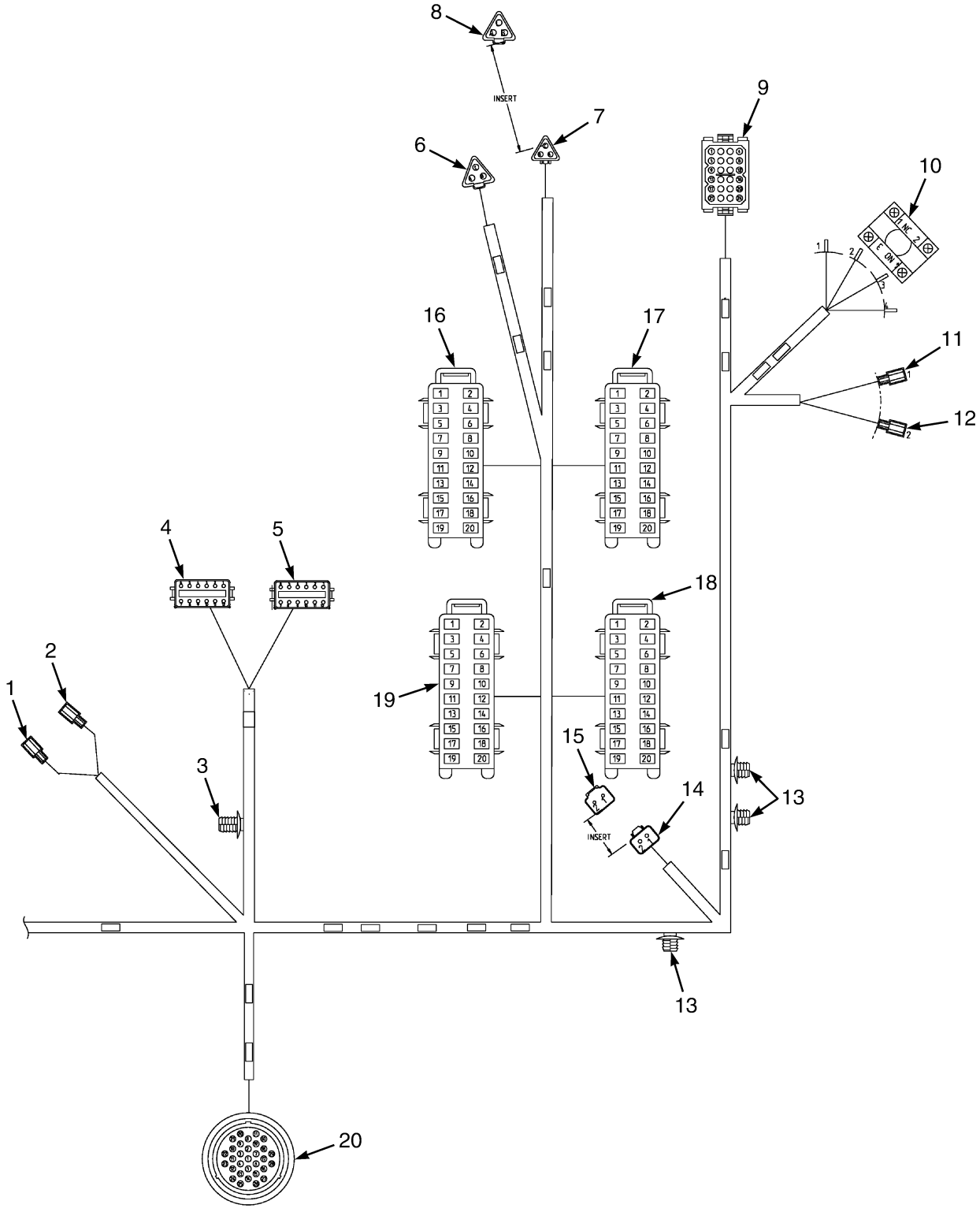
WIRE HARNESS (FIGURE 4-70)

CAB SIDE CONSOLE, PAGE 3 OF 3 — TIER IV INTERIM ENGINE (S/N B236E01681L →)



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CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
	4060733	Wire Harness (Cab Side Console)	1
1	. . . . .	Connector Assembly (TS23 ECO/Power SW1)	1
1	4032534	Connector	1
1	1484600	Terminal	1
2	. . . . .	Connector Assembly (TS24 ECO/Power SW2)	1
2	4032534	Connector	1
2	1484600	Terminal	1
3	1500927	Clip	1
4	. . . . .	Connector Assembly (CPS161 Hydraulic Relays)	1
4	1493428	Connector (12-Way)	1
4	1500913	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	7
5	. . . . .	Connector Assembly (CPS162 Hydraulic Relays)	1
5	1493428	Connector (12-Way)	1
5	1500913	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	7
6	. . . . .	Connector Assembly (CRP05 Lights Jumper)	1
6	1493466	Connector (3-Way)	1
6	1330415	Connector (Secondary Lock)	1
6	1330437	Terminal (Pin)	3
7	. . . . .	Connector Assembly (CPS19 Diagnostic Connector)	1
7	1484397	Connector (3-Way)	1
7	1518112	Terminal (Socket)	2
7	1330439	Plug	1
7	1532664	Connector (Secondary Lock)	1
8	. . . . .	Insert (CRP19 Diagnostic Connector)	1
8	1493466	Connector (3-Way)	1
8	1500912	Clip	1
8	1330439	Plug	3
9	. . . . .	Connector Assembly (CPS94 Instrument Cluster)	1
9	1484677	Plug (24-Way)	1
9	1484716	Terminal	16
10	. . . . .	Connector Assembly (CRS01 Park Brake Switch)	1
10	1561756	Cover (Lower)	1
10	1567676	Cover (Upper)	1
10	1570606	Strap Clamp	1
10	1658852	Two Way Switch Element (Park Brake)	1
10	1484394	Crimp Ferrule	4
11	. . . . .	Connector Assembly (TS82 Buzzer)	1
11	1610947	Receptacle	1
11	1624103	Terminal	1
12	. . . . .	Connector Assembly (TS83 Buzzer)	1
12	1610947	Receptacle	1
12	1624103	Terminal	1
13	1490245	Clip	3
14	. . . . .	Connector Assembly (CPS145 Accessory Socket 24V)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Insert (CRP145 Accessory Socket 24V)	1

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WIRE HARNESS

CAB SIDE CONSOLE, PAGE 3 OF 3 – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
15	1493465	Connector (2 Pin)	1
15	1330439	Plug	2
16	. . . . .	Fuses 1-10 (CPS37) (☞Figure 4-71)	1
16	1484681	10 Way Fuse Box Connector	1
16	~~1389477~~		
	1484682	Secondary Lock	1
16	1389479	Terminal	3
16	1489957	Connector (1-Way)	11
16	1490249	Connector (1-Way)	2
17	. . . . .	Fuses 11-20 (CPS50) (☞Figure 4-71)	1
17	1484681	10 Way Fuse Box Connector	1
17	~~1389477~~		
	1484682	Secondary Lock	1
17	1389479	Terminal	2
17	1489957	Connector (1-Way)	10
17	1490249	Connector (1-Way)	2
17	1490250	Terminal (2-Way)	3
18	. . . . .	Fuses 31-40 (CPS109) (☞Figure 4-71)	1
18	1484681	10 Way Fuse Box Connector	1
18	~~1389477~~		
	1484682	Secondary Lock	1
18	1389479	Terminal	3
18	1489957	Connector (1-Way)	6
18	1490249	Connector (1-Way)	1
18	1490250	Terminal (2-Way)	1
19	. . . . .	Fuses 21-30 (CPS51) (☞Figure 4-71)	1
19	1484681	10 Way Fuse Box Connector	1
19	~~1389477~~		
	1484682	Secondary Lock	1
19	1389479	Terminal	5
19	1489957	Connector (1-Way)	6
19	1490249	Connector (1-Way)	3
19	1490250	Terminal (2-Way)	1
19	1610952	Terminal	1
20	. . . . .	Connector Assembly (CPS33 Side Console-Underfloor)	1
20	1484650	Connector (Socket)	1
20	1330438	Terminal (Socket)	25
20	1330439	Plug	4
20	1597773	Terminal	2

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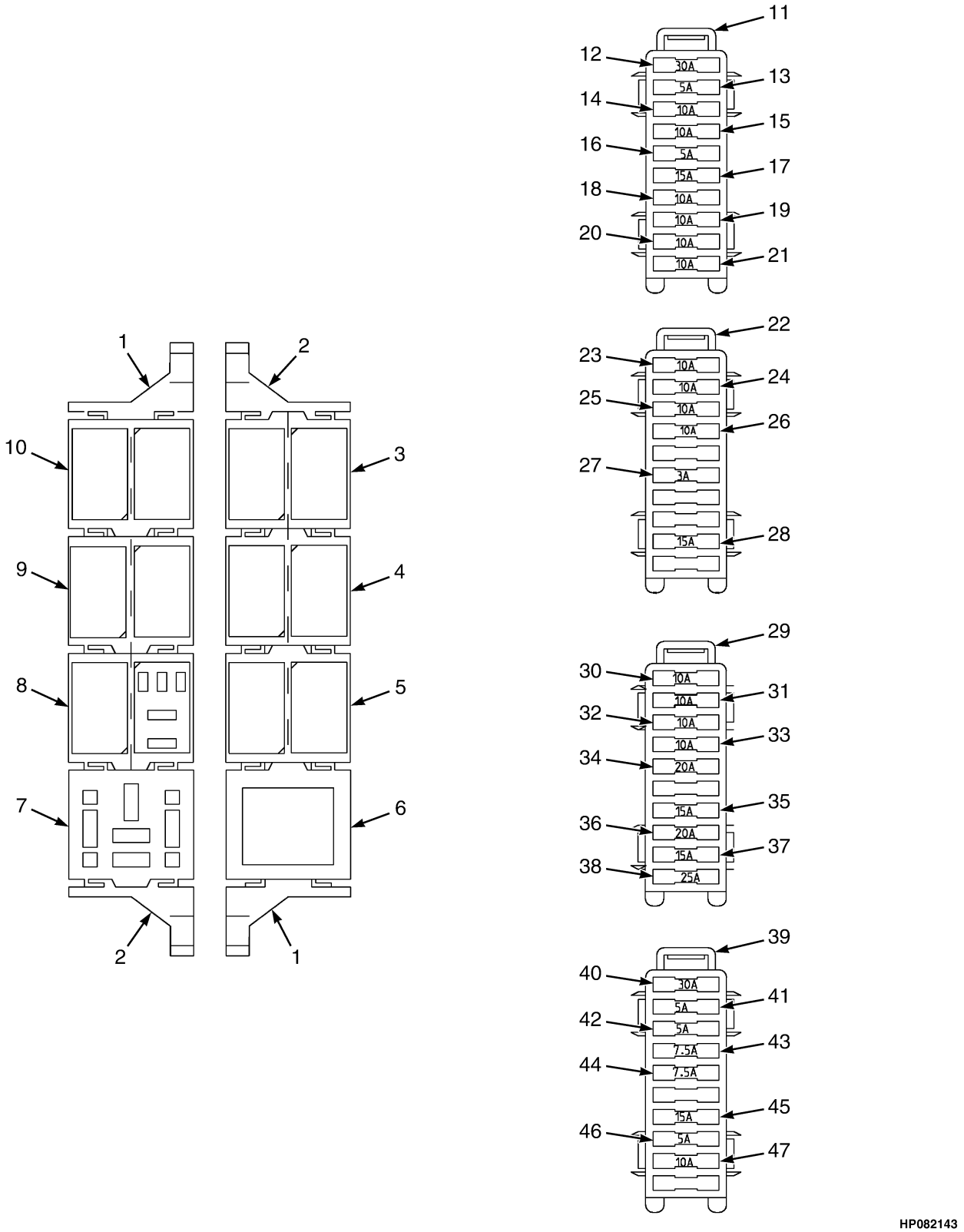
RELAYS AND FUSES (FIGURE 4-71)

OPERATOR COMPARTMENT — TIER IV INTERIM ENGINE (S/N B236E01681L →)



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RELAYS AND FUSES

OPERATOR COMPARTMENT – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
	4033788	Wire Harness (Cab Side Console)	1
1	1484714	Clip , Side-Mounting	2
2	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	2
3	. . . . .	Relays (CPS62 Main Lights and Flood Lights)	1
3	1484683	Relay (Base)	1
3	1489960	Relay (24 Volt)	2
3	1490249	Connector (1-Way)	4
3	1570602	Terminal (Socket)	4
4	. . . . .	Relays (CPS13 Neutral and Start Inhibit)	1
4	1484683	Relay (Base)	1
4	1489960	Relay (24 Volt)	2
4	1489957	Connector (1-Way)	1
4	1490249	Connector (1-Way)	4
4	1570602	Terminal (Socket)	3
5	. . . . .	Relay (CPS36 Reverse Lights)	1
5	1484683	Relay (Base)	1
5	1489960	Relay (24 Volt)	1
5	1489957	Connector (1-Way)	2
5	1570602	Terminal (Socket)	2
6	. . . . .	Relay (CPS16 Main Power)	1
6	1484684	Single Mini Relay Base	1
6	1610946	Relay (24 Volt, 70 Amp)	1
6	1489957	Connector (1-Way)	2
6	1610952	Terminal	2
7	. . . . .	Flasher Unit (CPS76)	1
7	1484684	Single Mini Relay Base	1
7	1489957	Connector (1-Way)	3
8	. . . . .	Relay (CPS15 Ignition)	1
8	1484683	Relay (Base)	1
8	1489960	Relay (24 Volt)	1
8	1389479	Terminal	2
8	1489957	Connector (1-Way)	1
8	1570602	Terminal (Socket)	1
9	. . . . .	Relays (CPS108 Start Enable and 12V)	1
9	1484683	Relay (Base)	1
9	1489960	Relay (24 Volt)	2
9	1489957	Connector (1-Way)	3
9	1490249	Connector (1-Way)	2
9	1570602	Terminal (Socket)	3
10	. . . . .	Relays (CPS84 Seat Switch and Horn)	1
10	1484683	Relay (Base)	1
10	1489960	Relay (24 Volt)	2
10	1389479	Terminal	2
10	1489957	Connector (1-Way)	4
10	1570602	Terminal (Socket)	2
11	. . . . .	Fuses 11-20 (CPS50)	1
12	1320669	Fuse (30 Amp) (Flood Lights)	1
13	370646	Fuse (5 Amp) (Strobe Light B+)	1
14	370647	Fuse (10 Amp) (Brake Lights)	1
15	370647	Fuse (10 Amp) (Front Drive Lights)	1

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RELAYS AND FUSES

OPERATOR COMPARTMENT – TIER IV INTERIM ENGINE (S/N B236E01681L →)

ITEM	PART NO.	DESCRIPTION	QTY
16	370646	Fuse (5 Amp) (Interior Lighting)	1
17	1310630	Fuse (15 Amp) (Mast/Attachment Lights)	1
18	370647	Fuse (10 Amp) (Direction Indicators)	1
19	370647	Fuse (10 Amp) (Side/Tail Lights)	1
20	370647	Fuse (10 Amp) (Rear Drive Lights)	1
21	370647	Fuse (10 Amp) (Reverse Lights/Alarm/Strobe)	1
22	. . . . .	Fuses 31-40 (CPS109)	1
23	370647	Fuse (10 Amp) (Power Socket 12V)	1
24	370647	Fuse (10 Amp) (Radio/CB/Intercom)	1
25	370647	Fuse (10 Amp) (Converter For Accessories)	1
26	370647	Fuse (10 Amp) (Hazard Lights)	1
27	1337828	Fuse (3 Amp) (12V Relay)	1
28	1310630	Fuse (15 Amp) (Power Socket 24V)	1
29	. . . . .	Fuses 21-30 (CPS51)	1
30	370647	Fuse (10 Amp) (Front Screen Wash Wipe)	1
31	370647	Fuse (10 Amp) (Roof Screen Wash Wipe)	1
32	370647	Fuse (10 Amp) (Rear Screen Wash Wipe)	1
33	370647	Fuse (10 Amp) (Horn)	1
34	370648	Fuse (20 Amp) (Cab Tilt Power Assist)	1
35	1310630	Fuse (15 Amp) (Seat Suspension Compressor)	1
36	370648	Fuse (20 Amp) (Heater/AC/Ventilation Fan)	1
37	1310630	Fuse (15 Amp) (AC Fan 1)	1
38	1300134	Fuse (25 Amp) (Oil Cooler Fan)	1
39	. . . . .	Fuses 1-10 (CPS37)	1
40	1320669	Fuse (30 Amp) (Engine Start)	1
41	370646	Fuse (5 Amp) (ECM Ignition)	1
42	370646	Fuse (5 Amp) (Ops System)	1
43	1300057	Fuse (7.5 Amp) (Transmission)	1
44	1300057	Fuse (7.5 Amp) (Transmission B+)	1
45	1310630	Fuse (15 Amp) (Attachment Controls)	1
46	370646	Fuse (5 Amp) (Park Brake Solenoid)	1
47	370647	Fuse (10 Amp) (Instrumentation)	1

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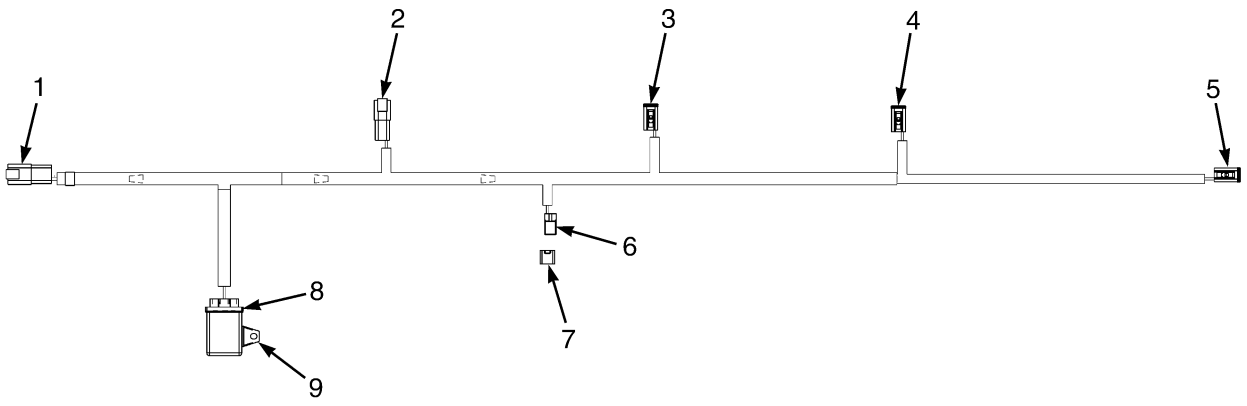
WIRE HARNESS (FIGURE 4-72)
OIL COOLER



ITEM	PART NO.	DESCRIPTION	QTY
	1677616	Wire Harness (Oil Cooler)	1
1	. . . . .	Connector Assembly (CRP174 Hydraulic Cooler - Frame)	1
1	1480187	Connector (DTP Rec)	1
1	1480188	Connector (Secondary Lock)	1
1	1484709	Terminal (Pin)	2
2	. . . . .	Connector Assembly (CRP179 Temperature Switch)	1
2	1493465	Connector (2 Pin)	1
2	1330414	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	2
3	. . . . .	Connector Assembly (CPS177 Cooler Fan 3)	1
3	1490242	Connector (2 Way)	1
3	1490243	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	2
4	. . . . .	Connector Assembly (CPS176 Cooler Fan 2)	1
4	1490242	Connector (2 Way)	1
4	1490243	Connector (Secondary Lock)	1
4	1330438	Terminal (Socket)	2
5	. . . . .	Connector Assembly (CPS175 Cooler Fan 1)	1
5	1490242	Connector (2 Way)	1
5	1490243	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	2
6	. . . . .	Connector Assembly (CPS178 Cooler Relay Diode)	1
6	1610950	Housing (Sealed) (4-Way)	1
6	1610941	Seal (Dummy)	2
6	1482658	Terminal	2
6	1482659	Seal (Rubber)	2

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ITEM	PART NO.	DESCRIPTION	QTY
7	. . . . .	Diode Assembly (CRP178 Cooler Relay Diode)	1
7	1610953	Diode	1
8	. . . . .	Connector Assembly (CPS180 Cooler Relay)	1
8	1607524	Socket	1
8	1607525	Terminal	2
8	1607529	Terminal	2
8	1607528	Seal	1
8	1607532	Seal	4
8	1607527	Cover Cap	1
8	1655227	Relay	1
9	1484715	Clip , Micro Relay Base (Passive Side-Mounting)	1

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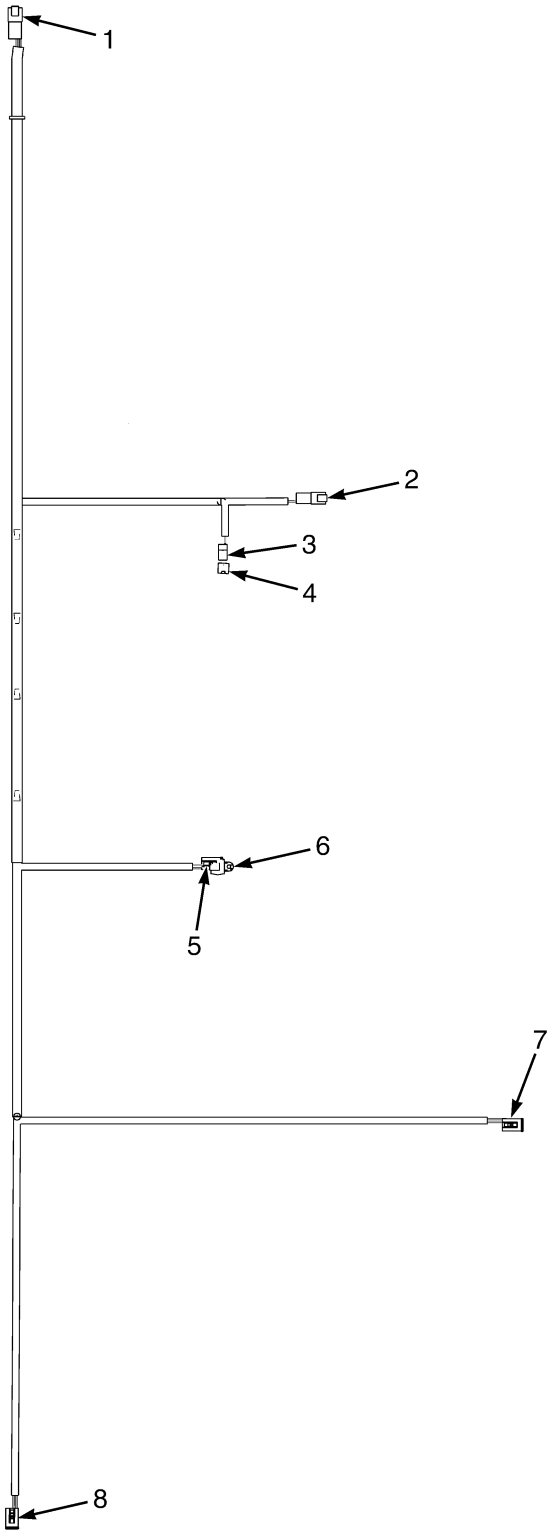
WIRE HARNESS (FIGURE 4-73)
REAR



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WIRE HARNESS
REAR

ITEM	PART NO.	DESCRIPTION	QTY
	1607461	Wire Harness (Rear)	1
1	. . . . .	Connector Assembly (CRP131 Rear - Frame)	1
1	1500925	Connector (DT REC 12-Pin)	1
1	1352603	Secondary Lock	1
1	1330437	Terminal (Pin)	9
1	1363885	Terminal (Pin)	2
1	1330439	Plug	1
2	. . . . .	Connector Assembly (CRP04 Backup Alarm)	1
2	1493465	Connector (2 Pin)	1
2	1330414	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	2
3	. . . . .	Connector Assembly (CPS54 Backup Diode)	1
3	1610950	Housing (Sealed) (4-Way)	1
3	1610941	Seal (Dummy)	2
3	1482658	Terminal	2
3	1482659	Seal (Rubber)	2
4	. . . . .	Diode Assembly (CRP54 Back Diode)	1
4	1611029	Diode (1-Way)	1
5	. . . . .	Connector Assembly (CPS117 AC Condenser)	1
5	1493430	Connector (6 Way Housing)	1
5	1529052	Connector (Secondary Lock)	1
5	1363886	Terminal (Socket)	2
5	1330438	Terminal (Socket)	3
5	1330439	Plug	1
6	. . . . .	Cap (CRP117 AC Condenser)	1
6	4036873	Cap (6 Way)	1
7	. . . . .	Connector Assembly (CPS68 Rear - RH Rear Lamp)	1
7	1493430	Connector (6 Way Housing)	1
7	1529052	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	5
7	1330439	Plug	1
8	. . . . .	Connector Assembly (CPS69 Rear - LH Rear Lights)	1
8	1493430	Connector (6 Way Housing)	1
8	1529052	Connector (Secondary Lock)	1
8	1330438	Terminal (Socket)	5
8	1330439	Plug	1

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WIRE HARNESS (FIGURE 4-74)
SELECTOR VALVE — TWO FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	1628345	Wire Harness (Selector Valve, Two Function)	1
1	. . . . .	Connector Assembly (CPS196 Left Fork Positioner Switch)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2	. . . . .	Connector Assembly (CPS195 Right Fork Positioner Switch)	1
2	1490242	Connector (2 Way)	1
2	1490243	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	2
3	. . . . .	Connector Assembly (CPS194 Side-Shift Switch)	1
3	1490242	Connector (2 Way)	1
3	1490243	Connector (Secondary Lock)	1
3	1330438	Terminal (Socket)	2
4	. . . . .	Connector Assembly (CRP192 Two-Function)	1
4	1493466	Connector (3-Way)	1
4	1330415	Connector (Secondary Lock)	1
4	1330437	Terminal (Pin)	3
5	. . . . .	Connector Assembly (CPS193 Two-Function)	1
5	1484397	Connector (3-Way)	1
5	1463194	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	2
5	1330439	Plug	1

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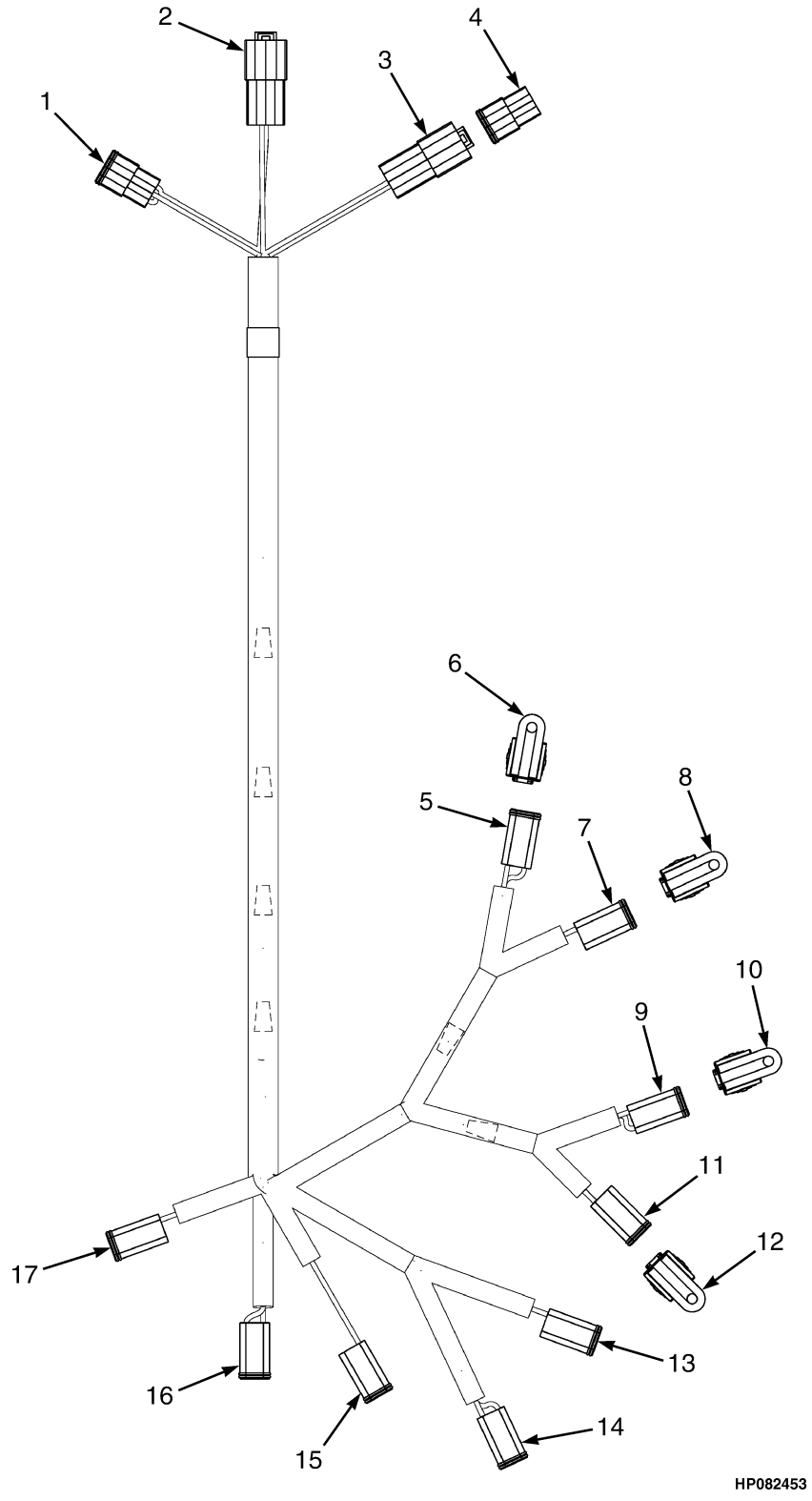
WIRE HARNESS (FIGURE 4-75)
SELECTOR VALVE — THREE TO FIVE FUNCTION



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WIRE HARNESS
SELECTOR VALVE – THREE TO FIVE FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	1607628	Wire Harness (Selector Valve, Three To Five Function)	1
1	. . . . .	Connector Assembly (CPS193A Three To Five Function)	1
1	1484397	Connector (3-Way)	1
1	1463194	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	3
2	. . . . .	Connector Assembly (CRP192A Three To Five Function)	1
2	1493466	Connector (3-Way)	1
2	1330415	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	3
3	. . . . .	Connector Assembly (CRP192B Three To Five Function)	1
3	1493466	Connector (3-Way)	1
3	1330415	Connector (Secondary Lock)	1
3	1330437	Terminal (Pin)	3
4	. . . . .	Connector Assembly (CPS192B Three To Five Function)	1
4	1484397	Connector (3-Way)	1
4	1463194	Connector (Secondary Lock)	1
4	1330439	Plug	3
5	. . . . .	Connector Assembly (CPS206 Solenoid B Switch 2)	1
5	1490242	Connector (2 Way)	1
5	1490243	Connector (Secondary Lock)	1
5	1330438	Terminal (Socket)	2
6	. . . . .	Cap (CRP206 Solenoid B Switch 2)	1
6	4035905	Cap	1
7	. . . . .	Connector Assembly (CPS205 Solenoid A Switch 2)	1
7	1490242	Connector (2 Way)	1
7	1490243	Connector (Secondary Lock)	1
7	1330438	Terminal (Socket)	2
8	. . . . .	Cap (CRP205 Solenoid A Switch 2)	1
8	4035905	Cap	1
9	. . . . .	Connector Assembly (CPS204 Solenoid B Switch 1)	1
9	1490242	Connector (2 Way)	1
9	1490243	Connector (Secondary Lock)	1
9	1330438	Terminal (Socket)	2
10	. . . . .	Cap (CRP204 Solenoid B Switch 1)	1
10	4035905	Cap	1
11	. . . . .	Connector Assembly (CPS203 Solenoid A Switch 1)	1
11	1490242	Connector (2 Way)	1
11	1490243	Connector (Secondary Lock)	1
11	1330438	Terminal (Socket)	2
12	. . . . .	Cap (CRP203 Solenoid A Switch 1)	1
12	4035905	Cap	1
13	. . . . .	Connector Assembly (CPS202 Solenoid B Switch 3)	1
13	1490242	Connector (2 Way)	1
13	1490243	Connector (Secondary Lock)	1
13	1330438	Terminal (Socket)	2
14	. . . . .	Connector Assembly (CPS201 Solenoid A Switch 3)	1
14	1490242	Connector (2 Way)	1
14	1490243	Connector (Secondary Lock)	1
14	1330438	Terminal (Socket)	2
15	. . . . .	Connector Assembly (CPS200 Solenoid C Left FS Switch 2)	1

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WIRE HARNESS

SELECTOR VALVE – THREE TO FIVE FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
15	1490242	Connector (2 Way)	1
15	1490243	Connector (Secondary Lock)	1
15	1330438	Terminal (Socket)	2
16	. . . . .	Connector Assembly (CPS199 Solenoid B Right FS Switch 1)	1
16	1490242	Connector (2 Way)	1
16	1490243	Connector (Secondary Lock)	1
16	1330438	Terminal (Socket)	2
17	1490242	Connector (2 Way)	1
17	1490243	Connector (Secondary Lock)	1
17	1330438	Terminal (Socket)	2

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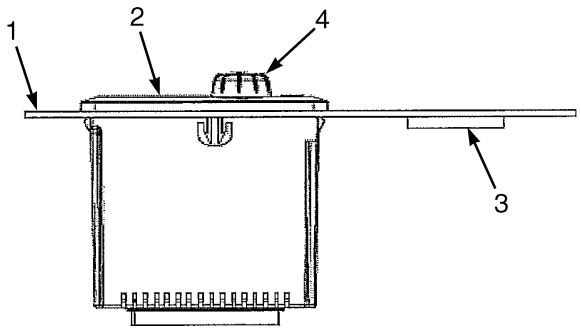
CONTROL PANEL ASSEMBLY (FIGURE 4-76)
CLIMATE CONTROL



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ITEM	PART NO.	DESCRIPTION	QTY
	4009598	Control Panel Assembly (Climate Control)	1
1	4020899	Plate	1
2	4021342	Control Unit	1
3	4094573	Knob	1
4	~~4020900~~		
	320169	Washer	1

NOTES

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5 TRANSMISSION

SECTION 5
TRANSMISSION

DESCRIPTION	PAGE
CASE AND REAR COVER	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-48
S/N B236E01617K → (TE-17) S/N B236E01681L → (TE-13)	5-50
CHARGING PUMP	5-26
CONTROL VALVE ASSEMBLY	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-35
S/N B236E01617K ↔ S/N B236E01680L	5-36
S/N B236E01681L → (TE-17) S/N B236E01682L → (TE-13)	5-37
CONTROL VALVE ATTACHING PARTS	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-30
S/N B236E01617K ↔ S/N B236E01680L	5-32
S/N B236E01681L → (TE-17) S/N B236E01682L → (TE-13)	5-34
CONVERTER HOUSING	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-4
S/N B236E01617K → (TE-17) S/N B236E01682L → (TE-13)	5-6
DRIVE PLATES	5-8
FLUID INDICATOR AND ATTACHING PARTS	5-52
FORWARD AND THIRD SHAFT	5-20
FULL FLOW VALVE ASSEMBLY	
S/N B236E01681L → (TE-17) S/N B236E01682L → (TE-13)	5-46
GEARS	5-10
INPUT SHAFT AND FIRST CLUTCH	5-12
MODULATOR VALVE ASSEMBLY	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-42
S/N B236E01617K ↔ S/N B236E01680L	5-44
OUTPUT SHAFT	
→ S/N B236E01616K (TE-17) → S/N B236E01681L (TE-13)	5-28
S/N B236E01617K → (TE-17) S/N B236E01682L → (TE-13)	5-29
PUMP DRIVE	5-24
REGULATOR VALVE ASSEMBLY	
→ S/N B236E01680L	5-38
S/N B236E01681L → (TE-17) S/N B236E01682L → (TE-13)	5-40
REVERSE AND SECOND CLUTCH	5-16
TORQUE CONVERTER	5-9
TRANSMISSION HOSES AND ATTACHING PARTS	5-56
TRANSMISSION MOUNTING	5-2
UNIVERSAL SHAFT	5-54

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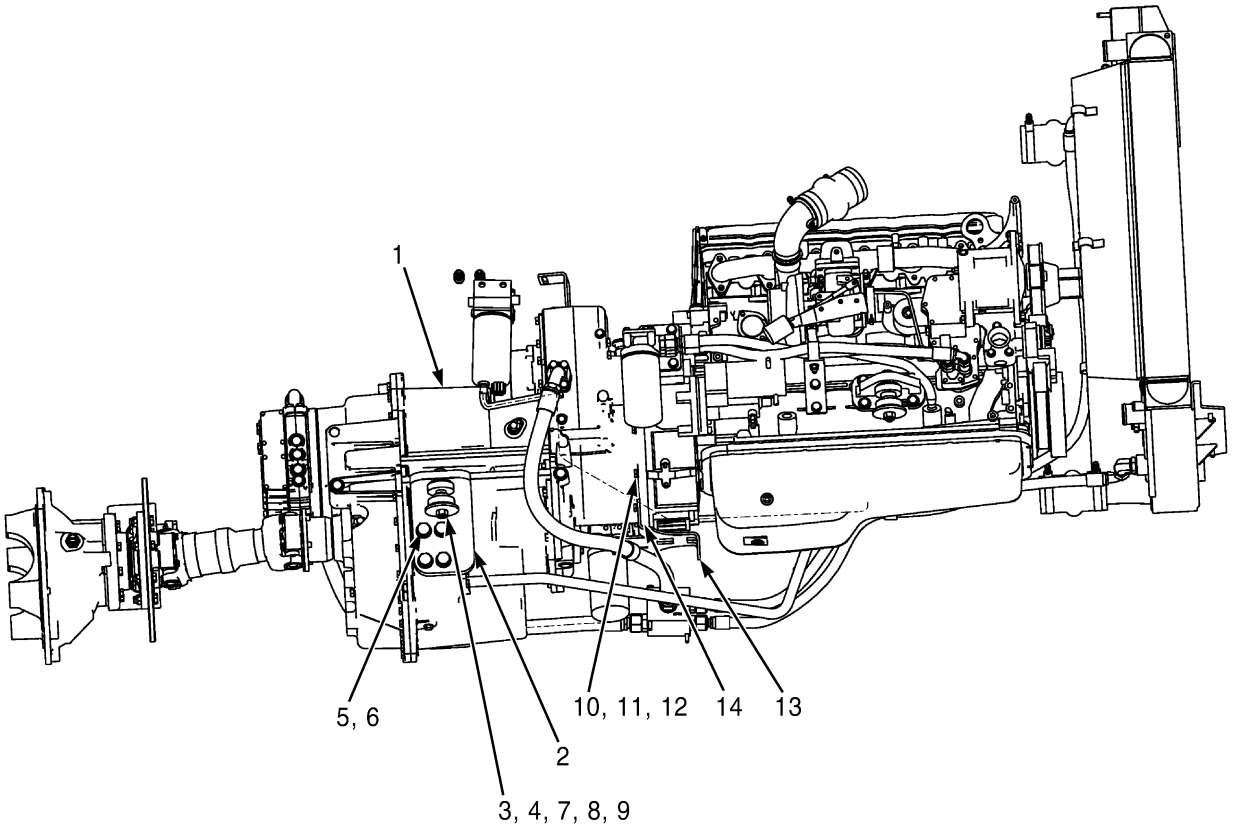
TRANSMISSION MOUNTING (FIGURE 5-1)



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TRANSMISSION MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
1	**b** 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
1	**a** 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	**c** 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	**e** 4055126	Transmission Assy (TE-13) (Full Flow)	1
1	**d** 4055127	Transmission Assy (TE-17) (Full Flow)	1
2	1559626	Bracket (RH)	1
2	1559627	Bracket (LH)	1
3	1464454	Isolator	2
4	1302938	Washer	2
5	~~4020900~~		
	320169	Washer	8
6	292582	Capscrew	8
7	320165	Washer	2
8	292573	Capscrew	2
9	302404	Locknut	2
10	~~388049~~		
	292682	Lockwasher	20
11	292515	Capscrew	9
12	287860	Capscrew	1
13	4007552	Bracket	1
14	292516	Capscrew	2

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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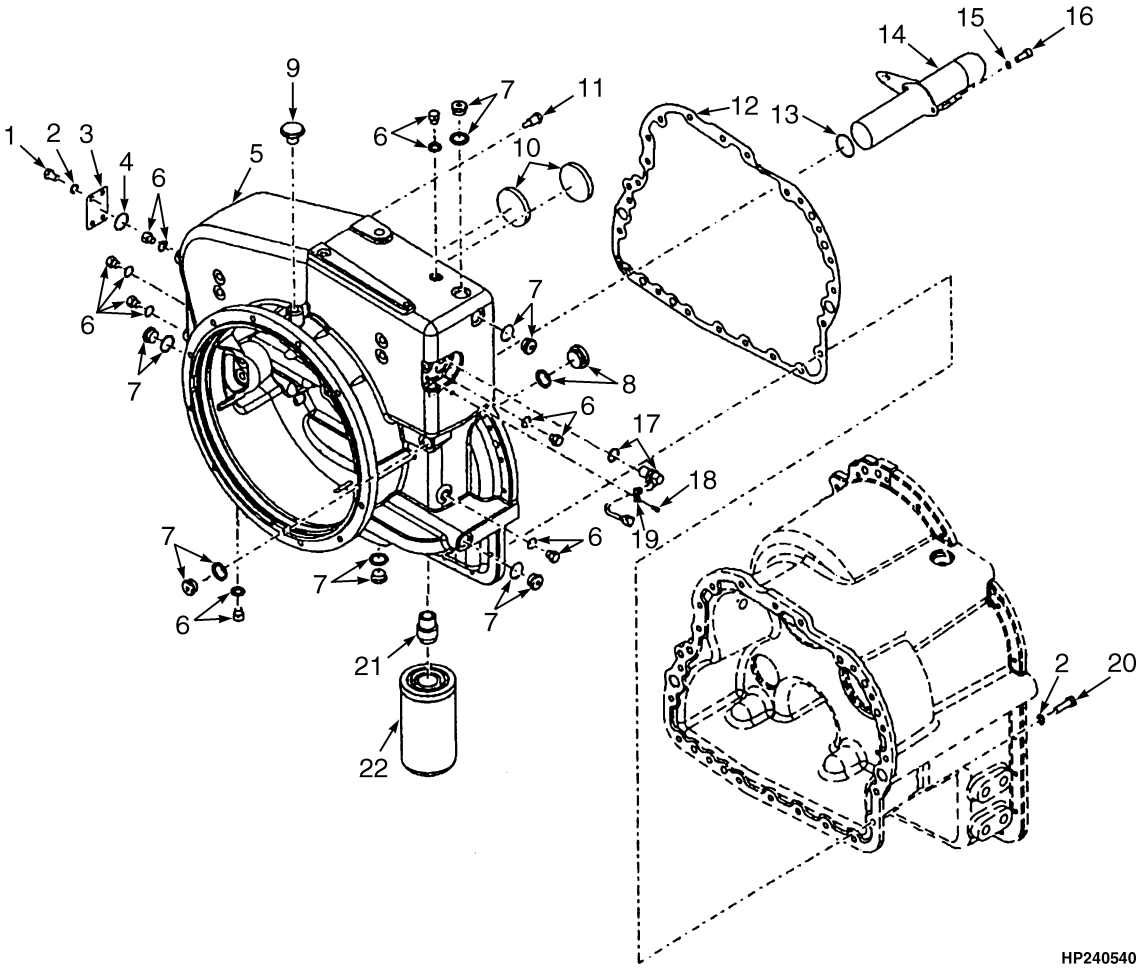
CONVERTER HOUSING (FIGURE 5-2)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))



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CONVERTER HOUSING

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1612313	Capscrew	4
2	1612314	Lockwasher	25
3	1612311	Cover	1
4	1624376	O-Ring	1
5	1688729	Converter Housing Assembly	1
6	1624369	Plug	6
6	1624370	O-Ring	1
7	1624368	Plug	6
7	1612905	O-Ring	1
7	1612293	Plug (Expansion)	6
8	1624371	Plug	1
8	1624372	O-Ring	1
9	330527	Breather	1
10	1624375	Plug	2
11	~~1556912~~		
	4027241	Switch (Temperature)	1
12	1624373	Gasket	1
13	1624386	O-Ring	1
14	1624387	Tube Assy	1
15	1624385	Lockwasher	5
16	1624388	Screw	2
17	1624377	Sensor-Speed	1
17	1579011	O-Ring	1
18	1556910	Capscrew	1
19	1624389	Clamp (Speed Sensor)	1
20	1624374	Capscrew	21
21	1612863	Adapter	1
22	1556992	Transmission Filter	1
	~~1624366~~		
	4013868	Kit-Seal	1

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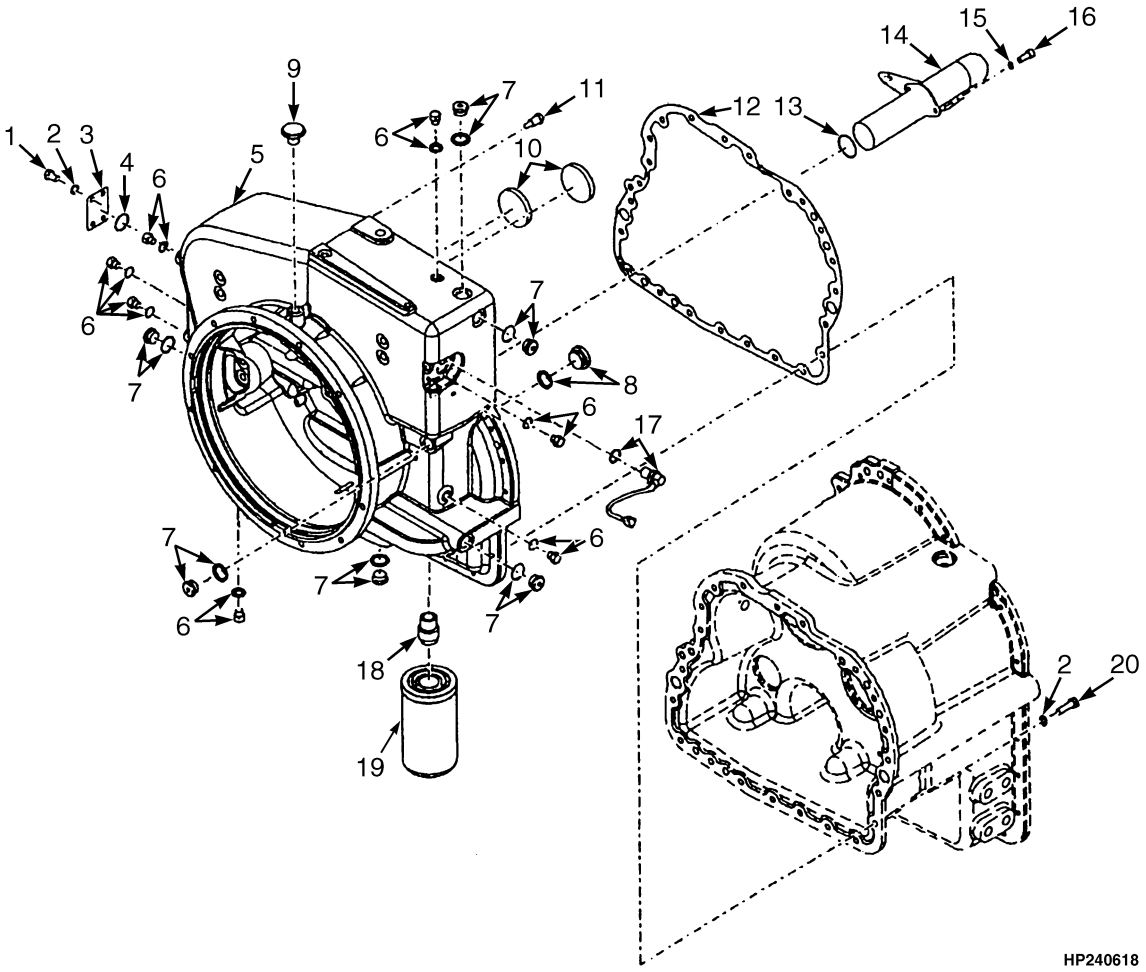
CONVERTER HOUSING (FIGURE 5-3)

(S/N B236E01617K → (TE-17)) (S/N B236E01682L → (TE-13))



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CONVERTER HOUSING

(S/N B236E01617K → (TE-17)) (S/N B236E01682L → (TE-13))

ITEM	PART NO.	DESCRIPTION	QTY
	a 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4055126	Transmission Assy (TE-13) (Full Flow)	1
	b 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1612313	Capscrew	4
2	1612314	Lockwasher	25
3	1612311	Cover	1
4	1624376	O-Ring	1
5	1688729	Converter Housing Assembly	1
6	1624369	Plug	6
6	1624370	O-Ring	1
7	1624368	Plug	6
7	1612905	O-Ring	1
7	1612293	Plug (Expansion)	6
8	1624371	Plug	1
8	1624372	O-Ring	1
9	330527	Breather	1
10	1624375	Plug	2
11	~~1556912~~		
	4027241	Switch (Temperature)	1
12	1624373	Gasket	1
13	1624386	O-Ring	1
14	1624387	Tube Assy	1
15	1624385	Lockwasher	5
16	1624388	Screw	2
17	1624377	Sensor-Speed	1
17	1579011	O-Ring	1
18	1612863	Adapter	1
19	1556992	Transmission Filter	1
20	1624374	Capscrew	21
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01680L
b S/N B236E01681L →
c S/N B236E01682L →

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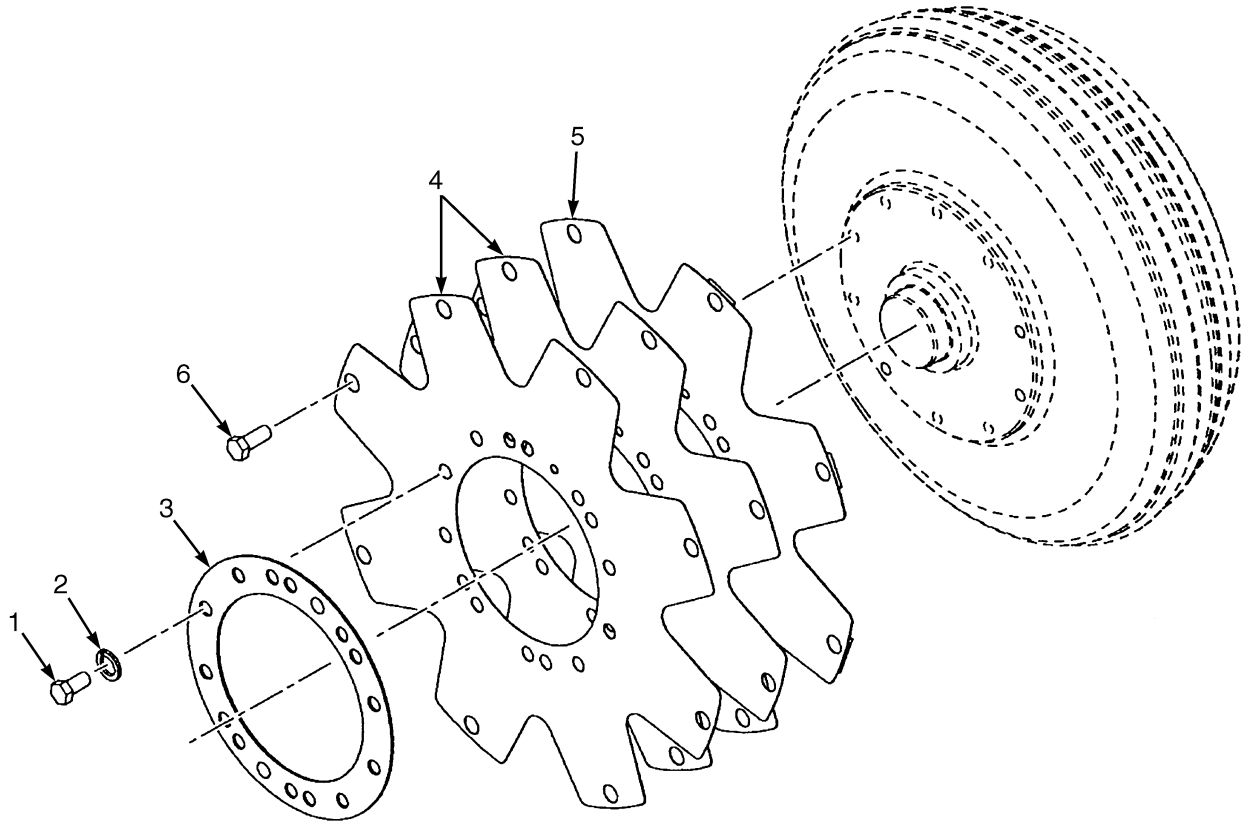
DRIVE PLATES (FIGURE 5-4)



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ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
	1624630	Kit-Drive Plate Torque Conv	1
1	1314285	Screw	10
2	15156	Lockwasher	10
3	1312373	Back-Up Ring	1
4	. . . . .	Drive Plate	2
5	. . . . .	Drive Plate	1
6	1347119	Capscrew	8

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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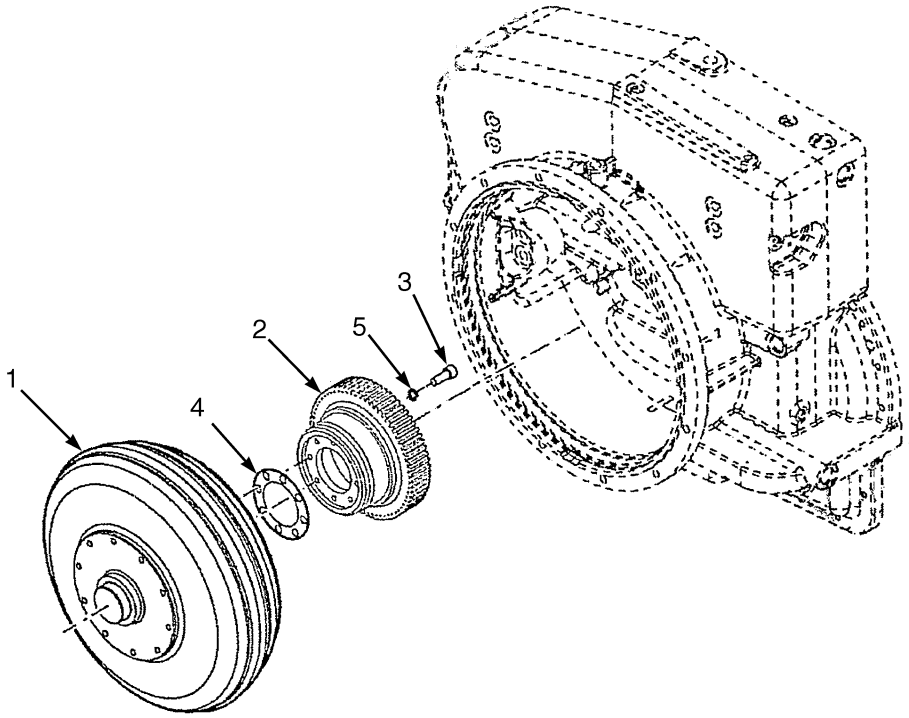
TORQUE CONVERTER (FIGURE 5-5)



HP240574

KEY:
A: TE-13 Transmission
B: TE-17 Transmission

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1	..
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	..	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	..	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1	..
	d 4055127	Transmission Assy (TE-17) (Full Flow)	..	1
	1646447	Torque Converter Assembly	1	..
	1646553	Torque Converter Assembly	..	1
1	. . . . .	Housing	1	1
2	1646448	Gear	1	1
3	1624418	Screw	8	8
4	1624419	Gasket	1	1
5	1624385	Lockwasher	1	1
	~~1624366~~			
	4013868	Kit-Seal	1	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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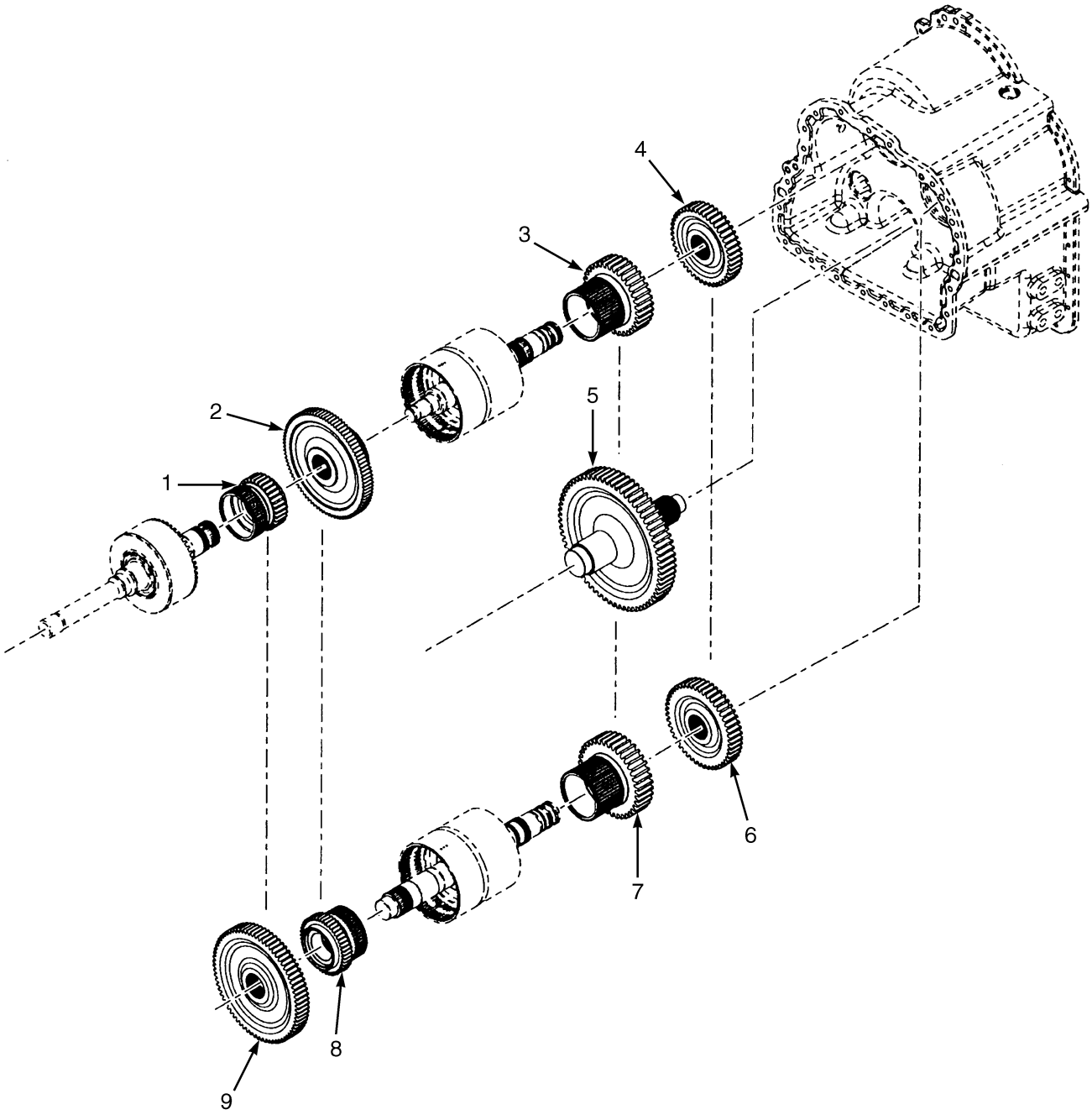
GEARS (FIGURE 5-6)



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GEARS

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	f 4055126	Transmission Assy (TE-13) (Full Flow)	1
	e 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1624445	Gear (First Clutch)	1
2	1624447	Gear (Second Clutch)	1
3	1624449	Gear (Reverse Clutch)	1
4	1624452	Gear (Reverse Shaft)	1
5	**a** 1624451	Shaft (Output Shaft)	1
5	**d** 4055495	Shaft (Output)	1
6	1624392	Gear (Forward Shaft)	1
7	1624450	Gear (Forward Clutch)	1
8	1624448	Gear (Third Clutch)	1
9	1624446	Gear (Third Shaft)	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01617K →
e S/N B236E01681L →
f S/N B236E01682L →

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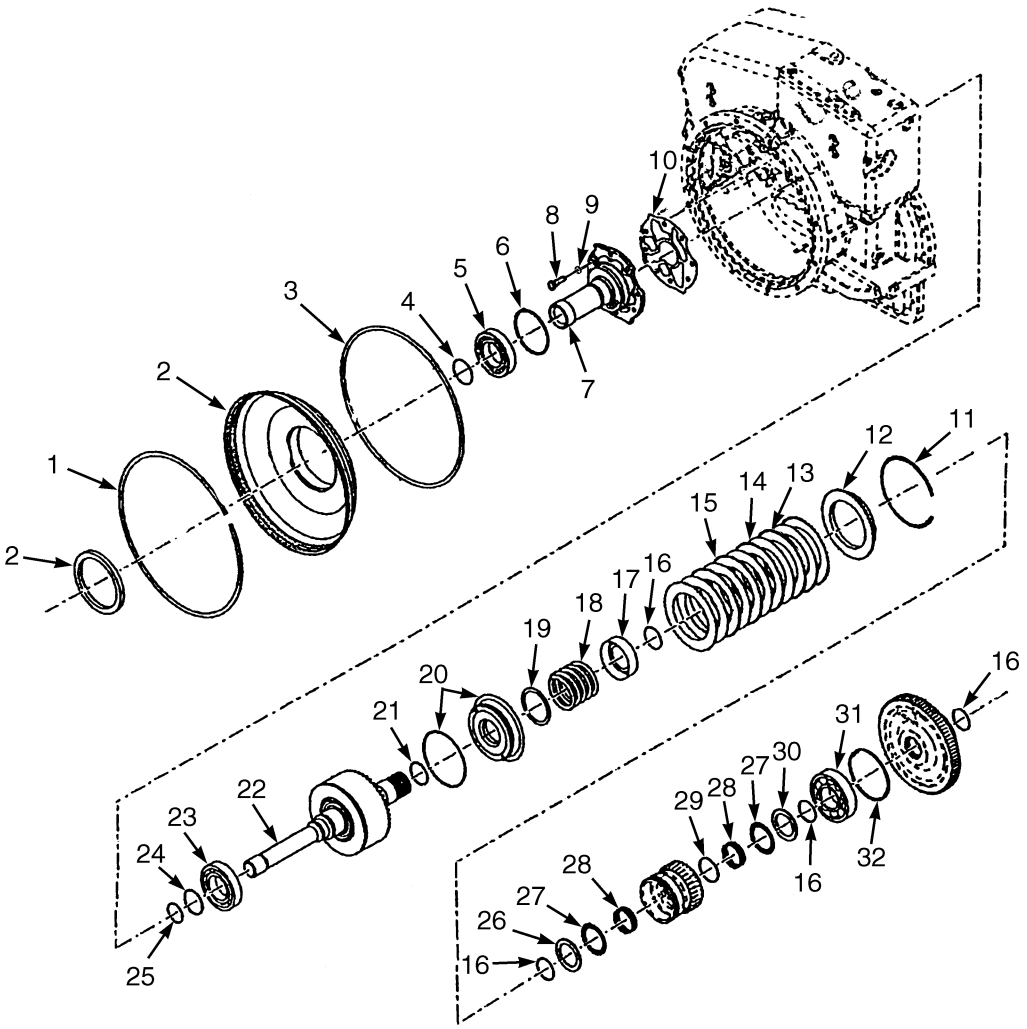
INPUT SHAFT AND FIRST CLUTCH (FIGURE 5-7)



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INPUT SHAFT AND FIRST CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1312376	Retaining Ring	1
2	1624458	Baffle	1
2	1624457	Oil Seal	1
3	~~1624459~~		
	4012199	O-Ring	1
4	1624460	Snap Ring	1
5	1624461	Bearing	1
6	1646450	Piston Ring	1
7	1646451	Support (Stator)	1
7	1646452	Bushing	1
8	1624374	Capscrew	8
9	1612314	Lockwasher	8
10	1624464	Gasket	1
11	1624479	Snap Ring	1
12	1624597	Plate (TE-13)	1
12	1624478	Plate (TE-17)	1
13	1624477	Separator Plate (Inner)	5
14	1624476	Friction Disk (Outer)	4
15	1624475	Disk (Outer Half)	2
16	1624474	Snap Ring (External)	4
17	1624473	Spring	1
18	1624472	Return Spring (Return)	1
19	1624471	Spacer	1
20	1624470	Piston (First)	1
20	. . . . .	Screen	1
20	1624469	Seal	1
21	1624468	Piston Ring	1
22	1624467	Shaft And Hub (First)	1
23	330542	Bearing	1
24	1624466	Piston Ring	1
25	1624465	Piston Ring	1
26	1624484	Thrust Washer (Roller)	1
27	1624481	Needle Bearing	2
28	1624482	Bearing	2
29	1624483	Spacer	2
30	1624480	Thrust Washer	1
31	1624423	Bearing	1
32	1624425	Snap Ring	1
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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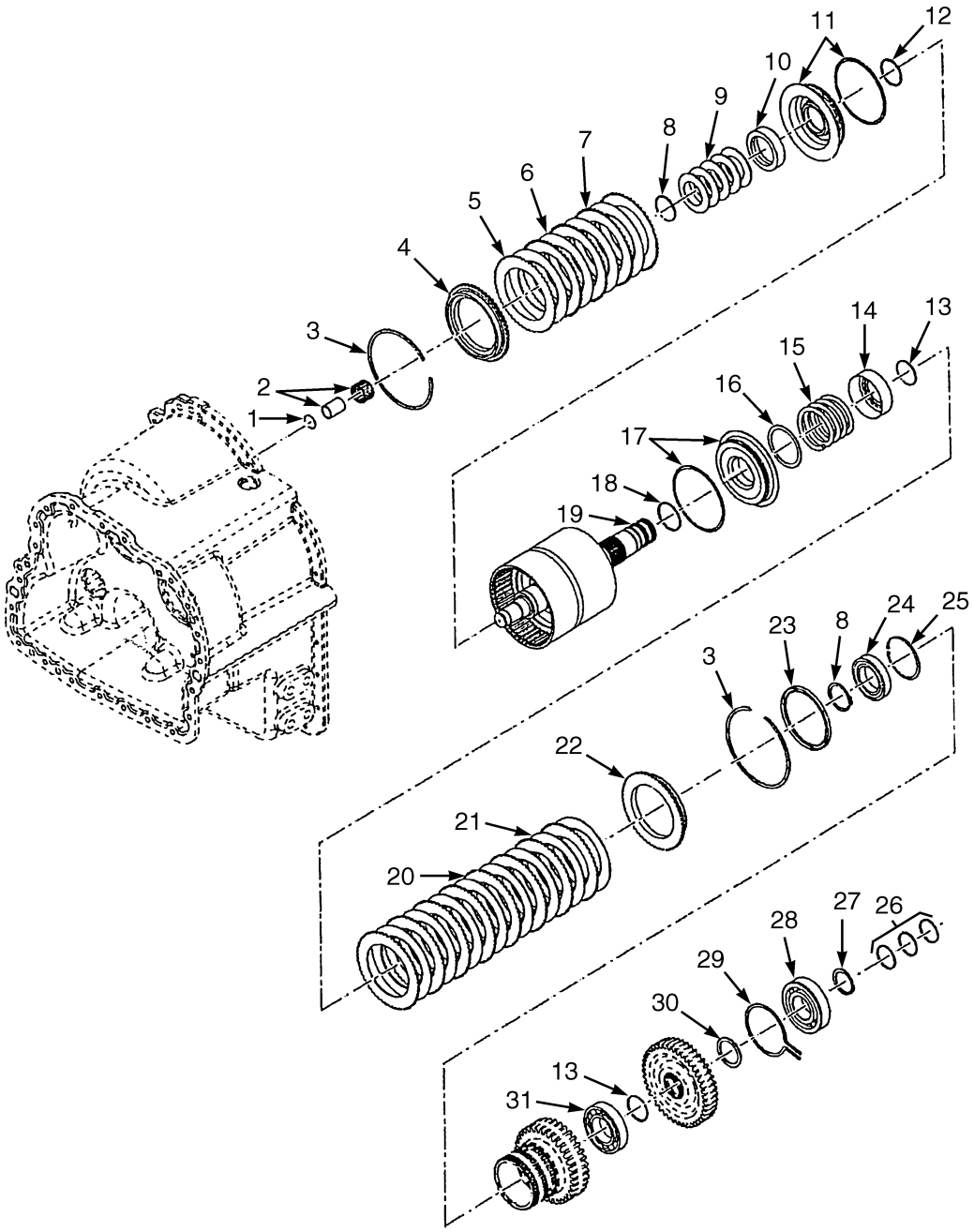
REVERSE AND SECOND CLUTCH (FIGURE 5-8)



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REVERSE AND SECOND CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1624575	Piston Ring	1
2	1624576	Bearing	1
2	1624577	Bearing	1
3	1624479	Snap Ring	2
4	1624578	Plate	1
5	1624475	Disk (Outer Half, Second)	2
6	1624477	Separator Plate (Inner, Second	6
7	1624476	Friction Disk (Outer, Second)	5
8	1566652	Retaining Ring	2
9	~~1624587~~		
	1705539	Spring	1
10	1624579	Spacer	1
11	1624470	Piston (First)	1
11	. . . . .	Screen	1
11	1624469	Seal	1
12	1624468	Piston Ring	1
13	1624474	Snap Ring (External)	2
14	1624582	Retainer	1
15	1624472	Return Spring (Return)	1
16	1624471	Spacer	1
17	1624581	Piston (Forward And Reverse)	1
17	. . . . .	Screen (Not Shown)	1
17	1624469	Seal (Outer)	1
18	1624466	Piston Ring	1
19	1624580	Shaft And Hub	1
20	1624583	Separator Plate (Outer, Reverse)	8
21	1624584	Friction Disk (Inner, Reverse)	8
22	1646454	Plate (TE-13)	1
22	1624478	Plate (TE-17)	1
23	1612503	Seal	1
24	1612507	Bearing , Clutch Driven Gear	1
25	1612530	Snap Ring	1
26	1624586	Piston Ring	3
27	1311814	Snap Ring	1
28	1624585	Ball Bearing	1
29	1311719	Ring	1
30	1311716	Washer	1
31	1612508	Bearing , Rear	1
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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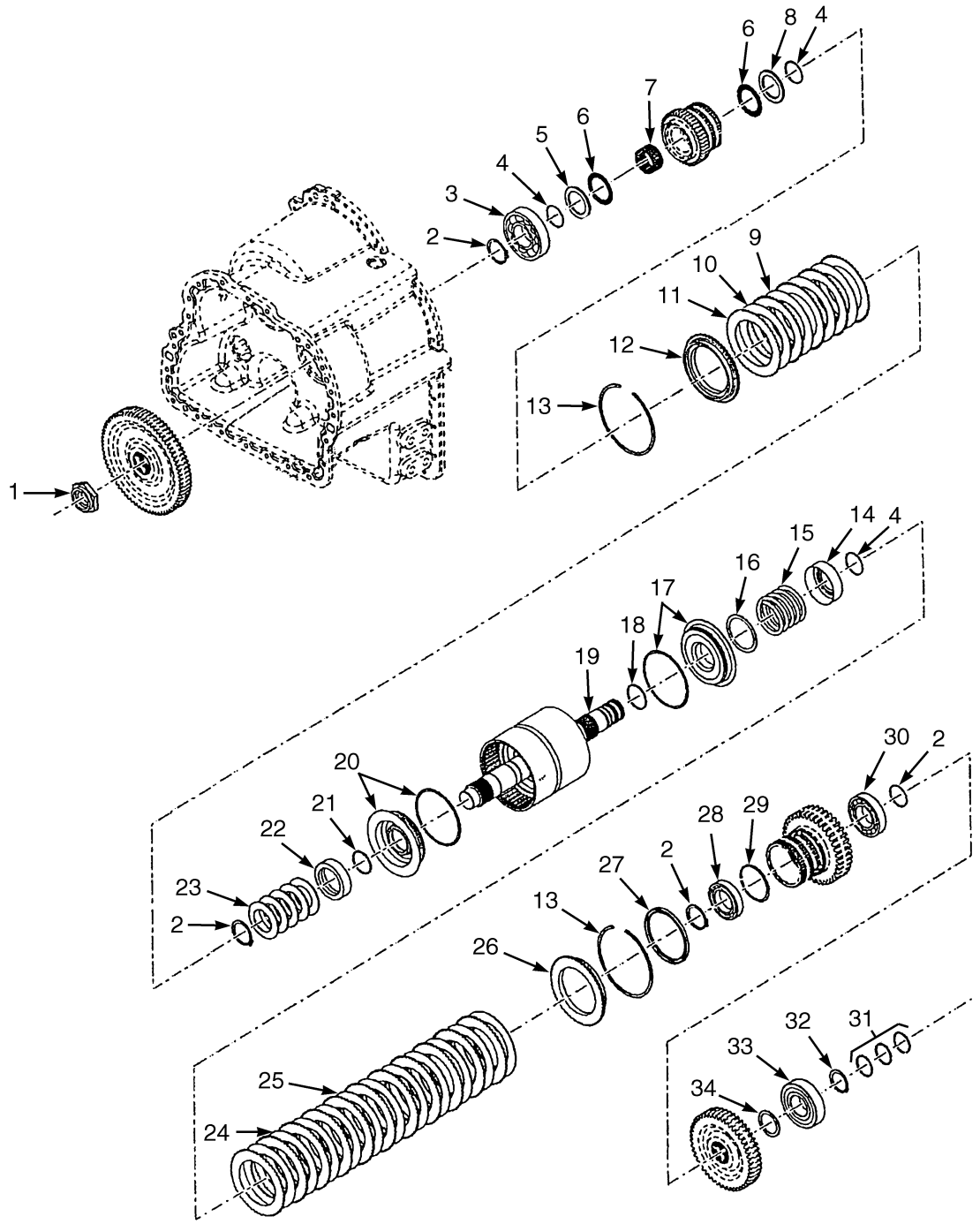
FORWARD AND THIRD SHAFT (FIGURE 5-9)



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FORWARD AND THIRD SHAFT

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1504393	Nut	1
2	1566652	Retaining Ring	3
3	1624423	Bearing	1
4	1624474	Snap Ring (External)	4
5	1624480	Thrust Washer	1
6	1624481	Needle Bearing (Roller)	2
7	1624596	Needle Bearing (Roller)	1
8	1624484	Thrust Washer	1
9	1624476	Friction Disk (Outer, Third)	3
10	1624477	Separator Plate (Inner, Third)	4
11	1624475	Disk (Outer Half, Third)	2
12	1624597	Plate	1
13	1624479	Snap Ring	2
14	1624582	Retainer	1
15	1624472	Return Spring (Return)	1
16	1624471	Spacer	1
17	1624581	Piston (Forward And Reverse)	1
17	. . . . .	Screen	1
17	1624469	Seal (Outer)	2
18	1624466	Piston Ring	1
19	1624599	Shaft And Hub	1
20	1624470	Piston (First)	1
20	. . . . .	Screen	1
20	1624469	Seal	1
21	1624468	Piston Ring	1
22	1624579	Spacer	1
23	1624598	Spring (Includes Five Washers)	1
24	1624584	Friction Disk (Inner, Reverse)	11
25	1624583	Separator Plate (Outer, Reverse)	11
26	1624578	Plate (Forward)	1
27	1612503	Seal	1
28	1612507	Bearing , Clutch Driven Gear	1
29	1612530	Snap Ring	1
30	1612508	Bearing , Rear	1
31	1624586	Piston Ring	3
32	1311814	Snap Ring	1
33	43310	Bearing	1
34	1311716	Washer	1
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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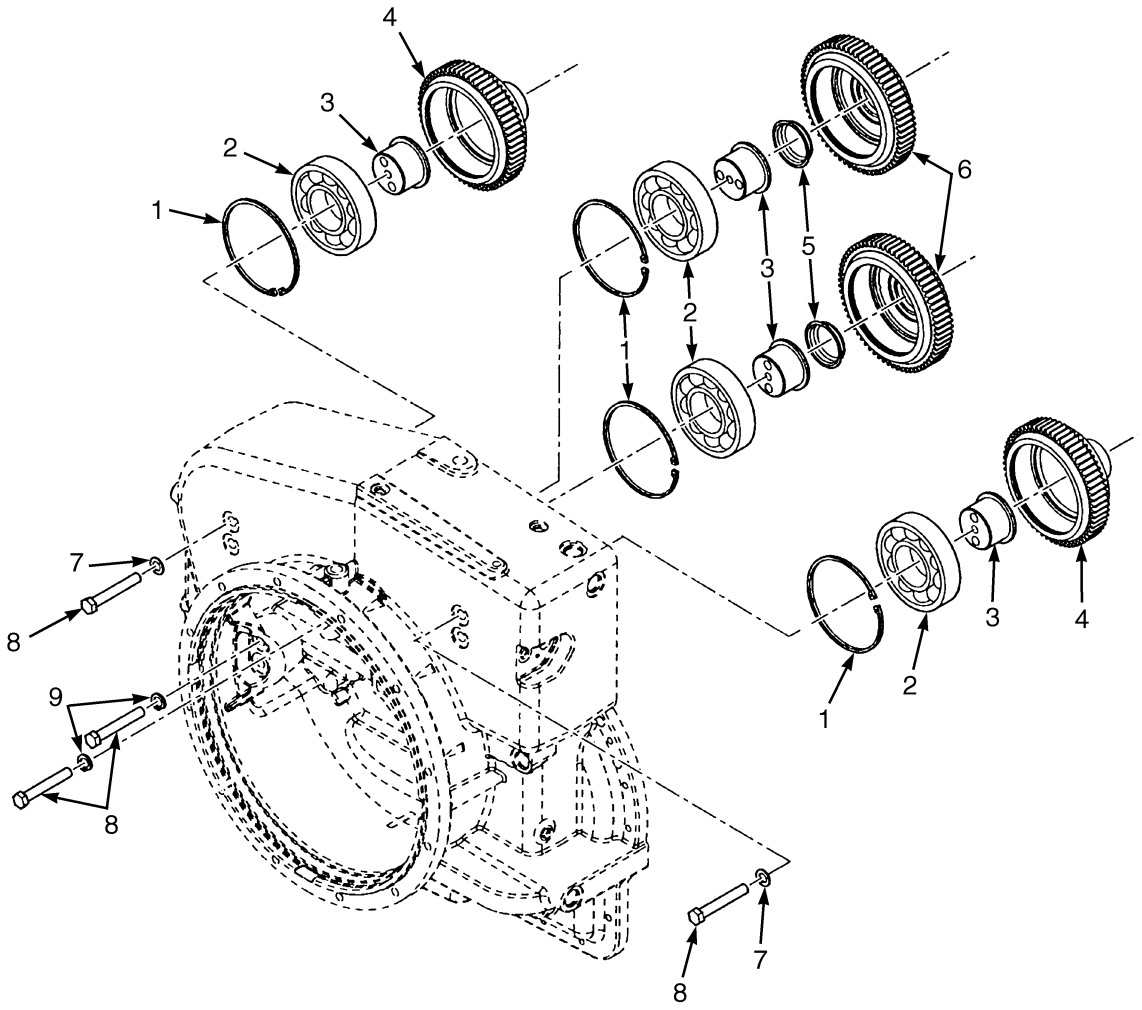
PUMP DRIVE (FIGURE 5-10)



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PUMP DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1624425	Snap Ring	4
2	1624423	Bearing	4
3	1624424	Support (Pump Drive Bearing)	4
4	1624422	Gear (Pump Drive)	2
5	1624427	Plug	2
6	1624421	Gear (Pump Drive Idler)	2
7	1612365	Sealing Ring (Seal)	4
8	1624426	Capscrew	8
9	1612870	Lockwasher	4
	~~1624366~~ 4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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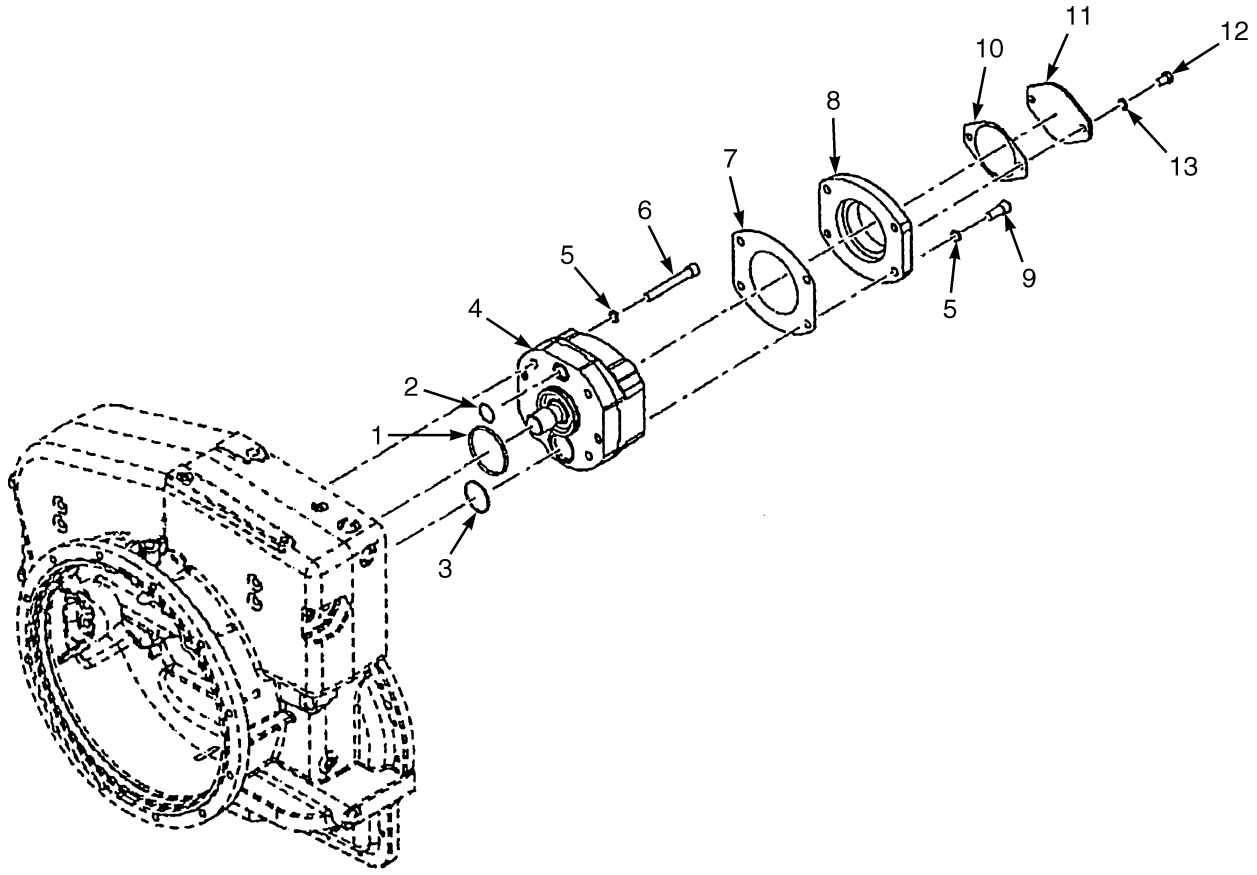
CHARGING PUMP (FIGURE 5-11)



HP240545

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	e 4055126	Transmission Assy (TE-13) (Full Flow)	1
	d 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1624608	O-Ring	1
2	1624607	O-Ring	1
3	1624609	O-Ring	1
4	1624600	Pump	1
5	1624602	Lockwasher	8
6	1624601	Capscrew	4
7	1624604	Gasket	1
8	1624603	Adapter	1
9	1624605	Screw	4
10	1556954	Gasket	1
11	1556955	Cover	1
12	1624606	Capscrew	4
13	1612870	Lockwasher	4
	~~1624366~~	Kit-Seal	1

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ITEM	PART NO.	DESCRIPTION	QTY
	4013868		

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L
d S/N B236E01681L →
e S/N B236E01682L →

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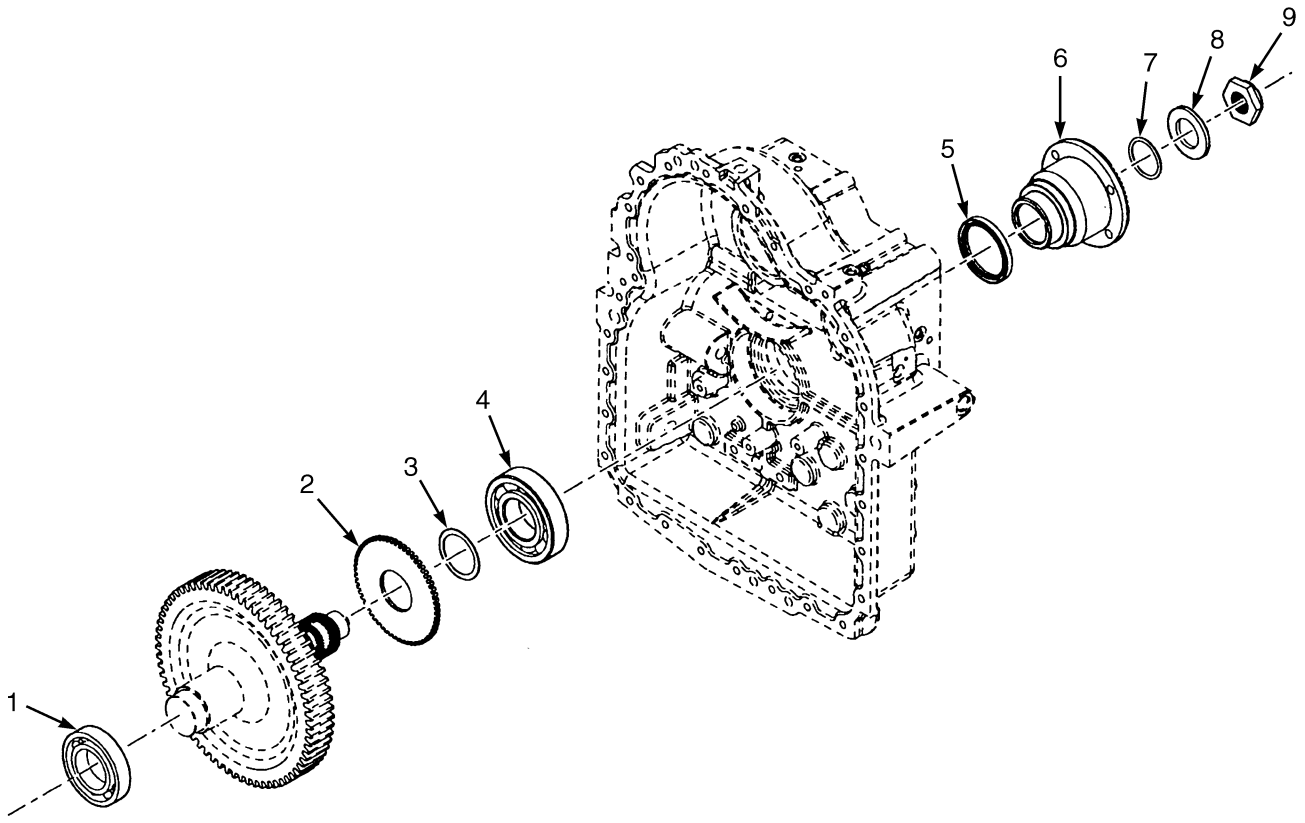
OUTPUT SHAFT (FIGURE 5-12)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))



HP240535

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	330542	Bearing (Impeller Hub)	1
2	1624614	Gear (Speed Sensor)	1
3	1624615	Spacer	1
4	1624612	Bearing	1
5	1624613	Seal	1
6	1624610	Flange (Output)	1
7	1384799	O-Ring	1
8	1624611	Washer (Flange)	1
9	385456	Nut (Output Shaft)	1
	~~1624366~~		
	4013868	Kit-Seal	1

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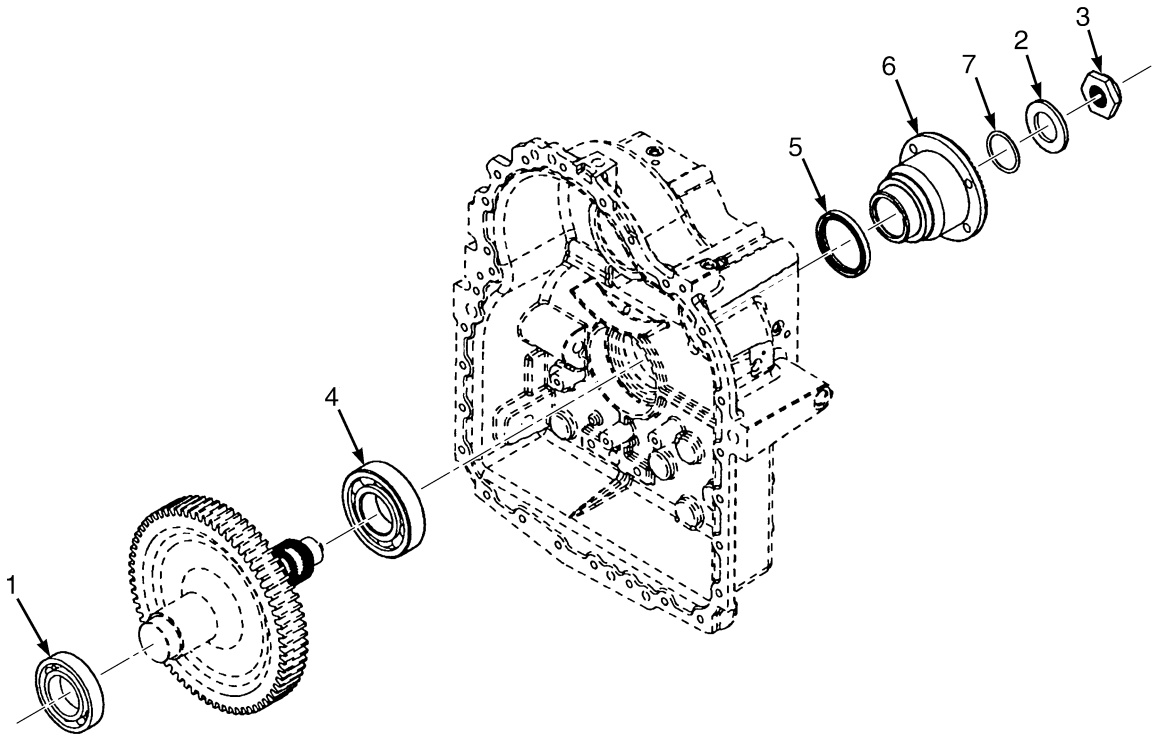
OUTPUT SHAFT (FIGURE 5-13)

(S/N B236E01617K → (TE-17)) (S/N B236E01682L → (TE-13))



HP240620

ITEM	PART NO.	DESCRIPTION	QTY
	a 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4055126	Transmission Assy (TE-13) (Full Flow)	1
	b 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	330542	Bearing (Impeller Hub)	1
2	1624611	Washer (Flange)	1
3	385456	Nut (Output Shaft)	1
4	1624612	Bearing	1
5	1624613	Seal	1
6	1624610	Flange (Output)	1
7	1384799	O-Ring	1
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01680L
b S/N B236E01681L →
c S/N B236E01682L →

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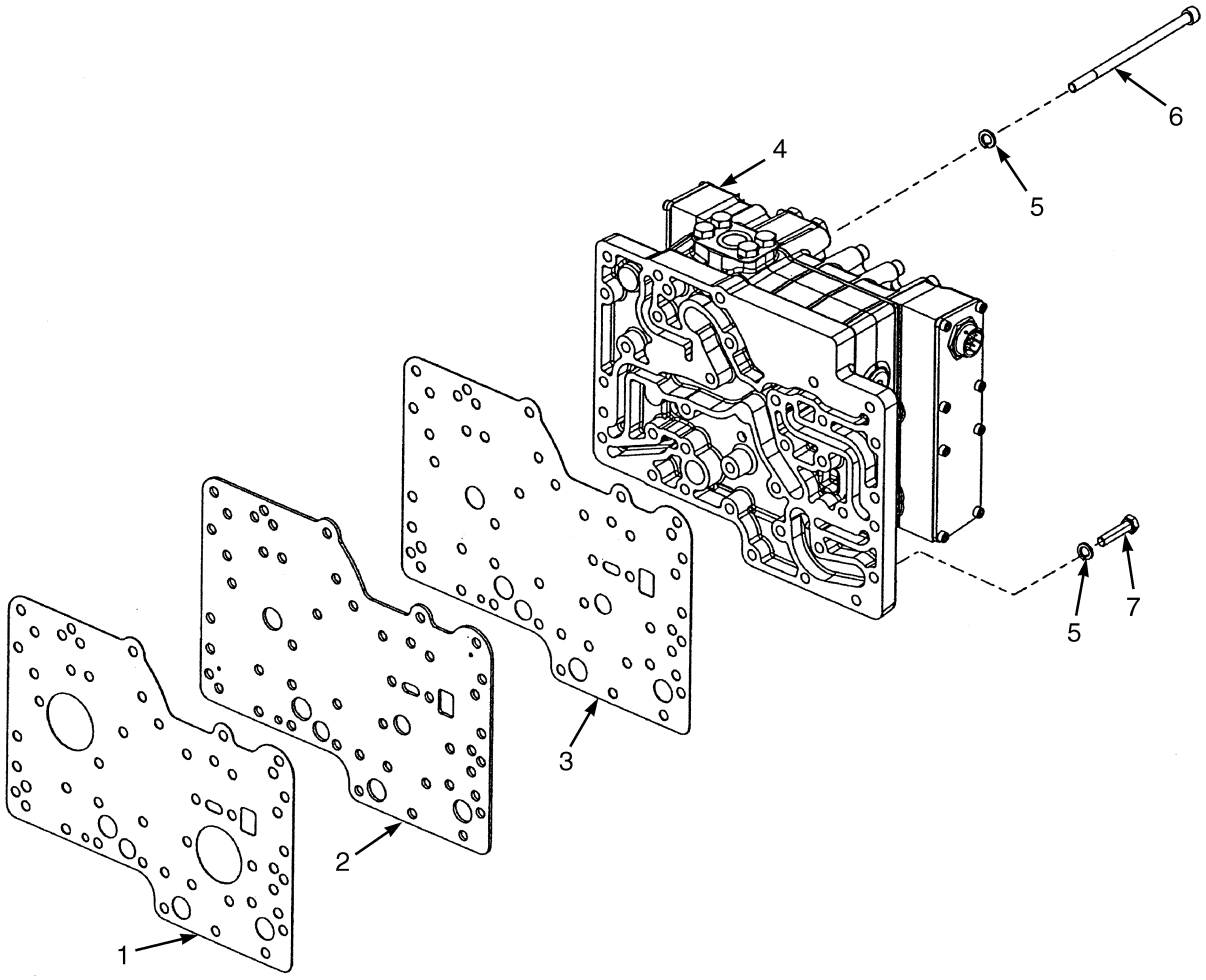
CONTROL VALVE ATTACHING PARTS (FIGURE 5-14)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))



HP240546

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624616	Gasket	1
2	1624618	Plate	1
3	1624617	Gasket	1
4	. . . . .	Control Valve Assembly (☞Figure 5-17)	1
5	1590532	Lockwasher	35
6	1624619	Screw	20
7	1624620	Capscrew	11
7	1624621	Capscrew	4
	~~1624366~~		
	4013868	Kit-Seal	1

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NOTES

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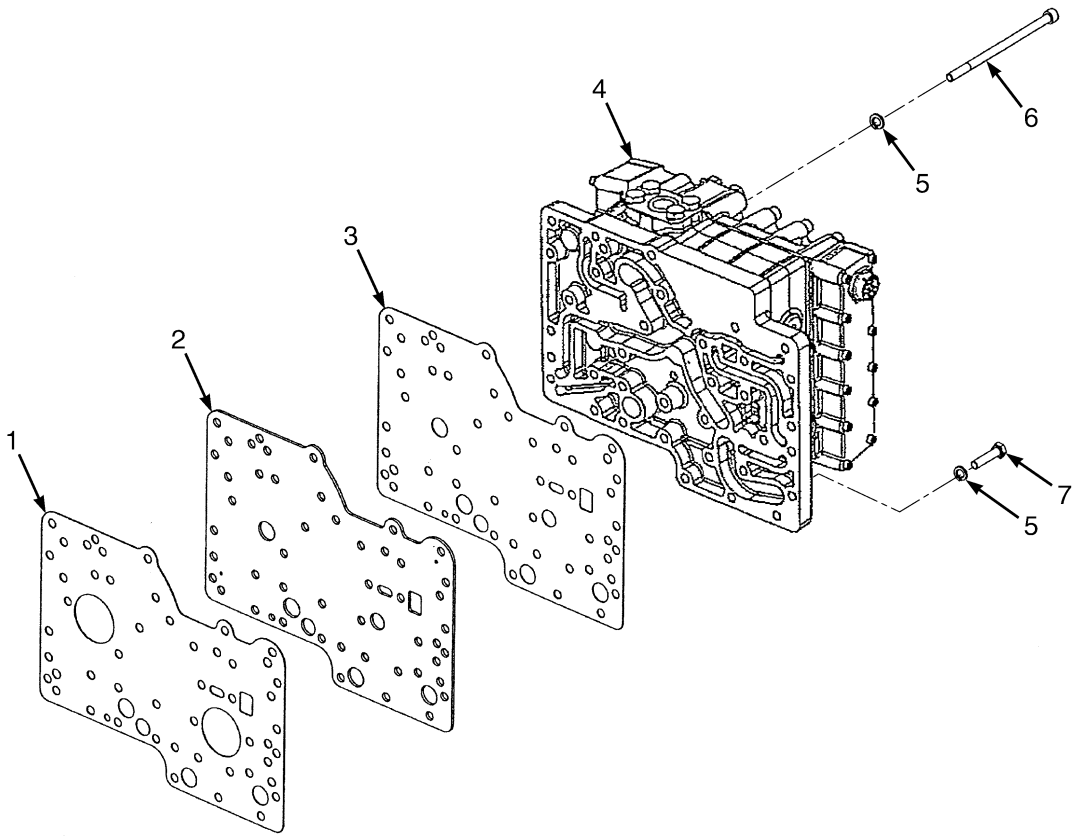
CONTROL VALVE ATTACHING PARTS (FIGURE 5-15)

(S/N B236E01617K ↔ S/N B236E01680L)



HP240623

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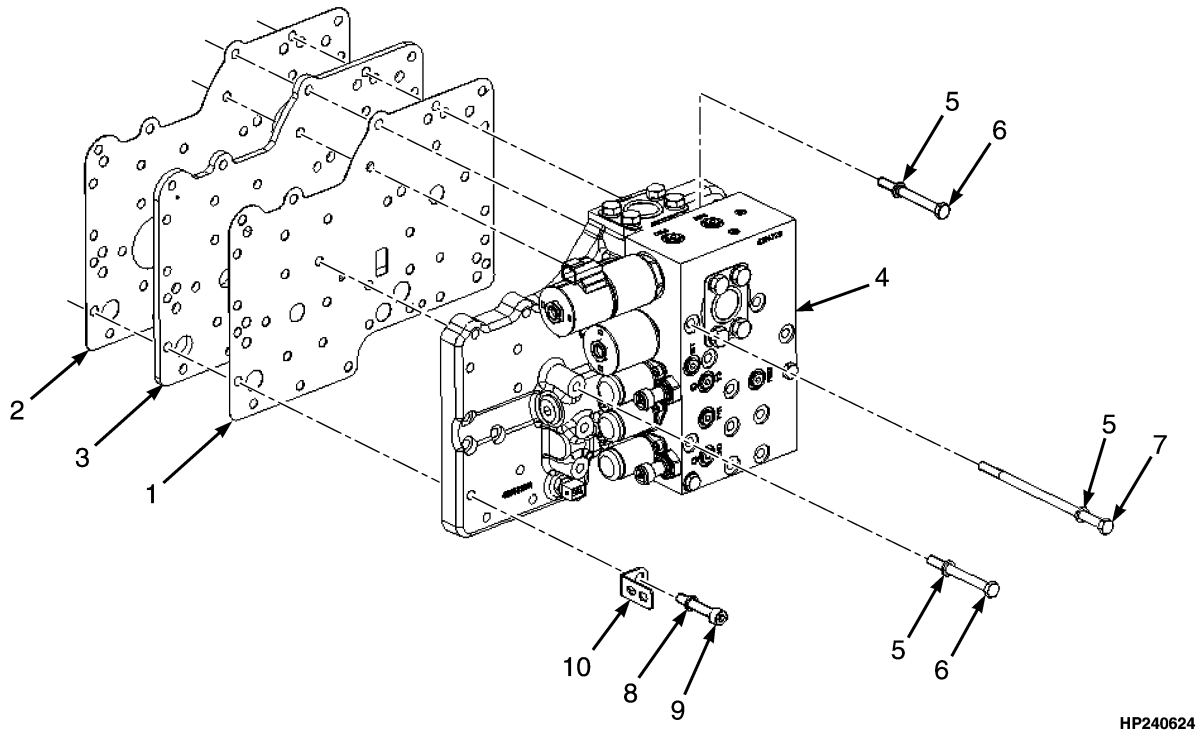
CONTROL VALVE ATTACHING PARTS
(S/N B236E01617K ↔ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624616	Gasket	1
2	1624618	Plate	1
3	1624617	Gasket	1
4	. . . . .	Control Valve Assembly (☞Figure 5-17)	1
5	1590532	Lockwasher	35
6	1624619	Screw	20
7	1624620	Capscrew	11
7	1624621	Capscrew	4
	~~1624366~~		
	4013868	Kit-Seal	1

CONTROL VALVE ATTACHING PARTS (FIGURE 5-16)

(S/N B236E01681L → (TE-17)) (S/N B236E01682L → (TE-13))



ITEM	PART NO.	DESCRIPTION	QTY
	4055126	Transmission Assy (TE-13) (Full Flow)	1
	4055127	Transmission Assy (TE-17) (Full Flow)	1
1	4059177	Gasket	1
2	4059178	Gasket	1
3	4059179	Plate	1
4	. . . . .	Control Valve Assy (☞Figure 5-19)	1
5	1590532	Lockwasher	16
6	1659226	Screw	6
7	4059181	Screw	10
8	1556998	Lockwasher	18
9	4059182	Capscrew	18
10	4059183	Bracket	4

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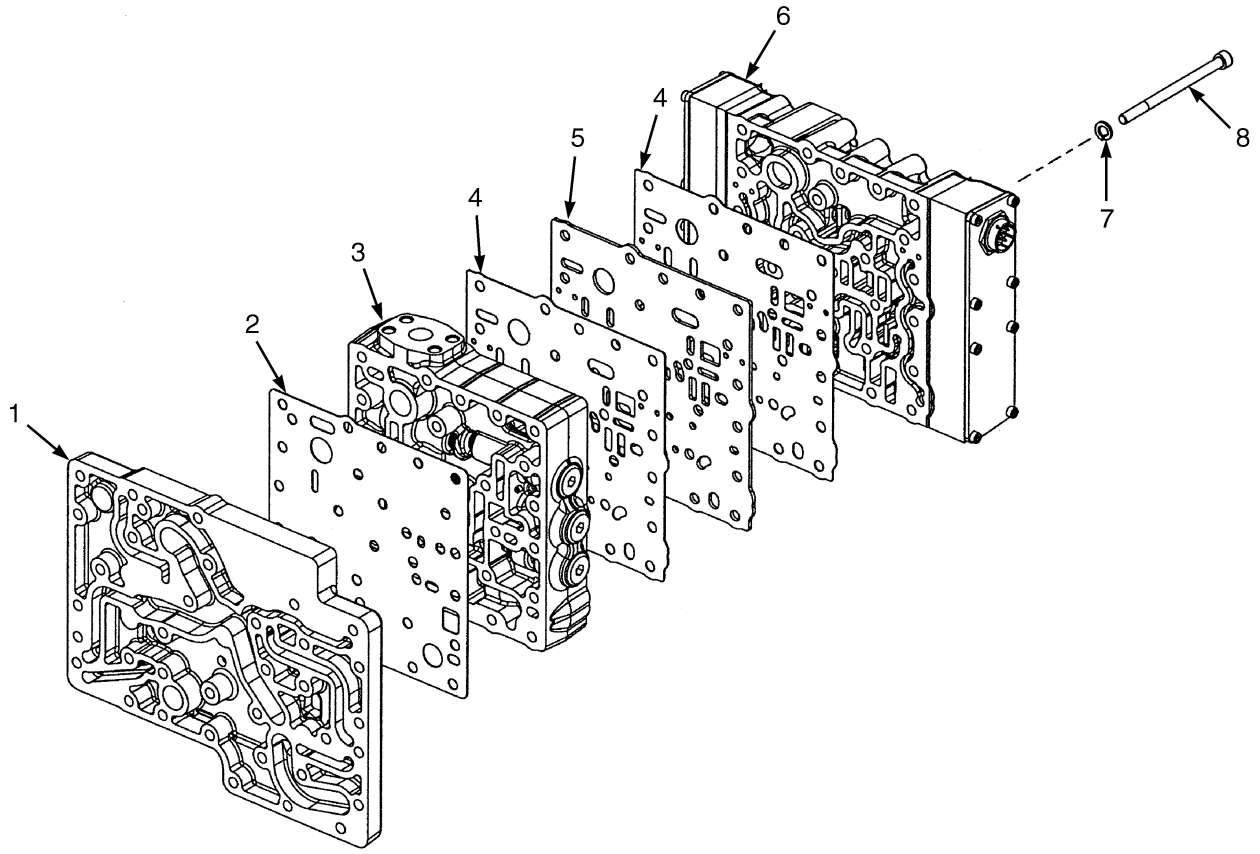
CONTROL VALVE ASSEMBLY (FIGURE 5-17)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))

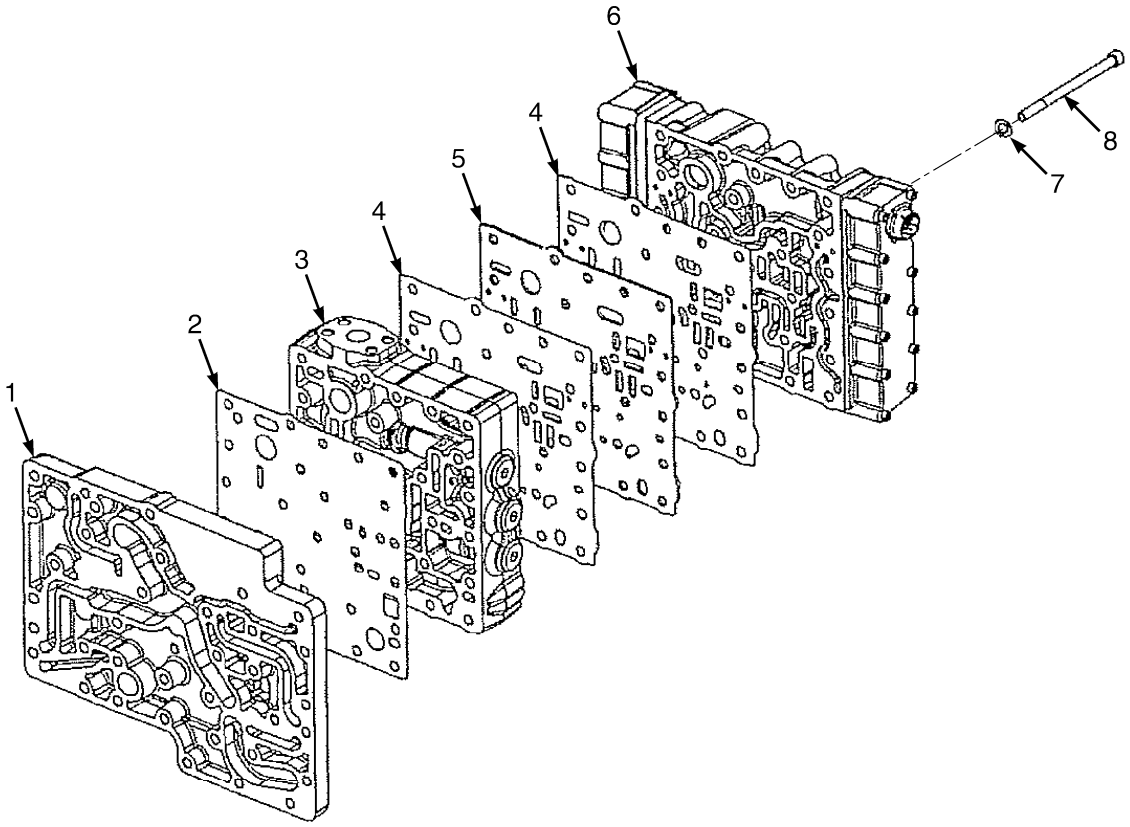


HP240547

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	1624361	Control Valve Assy (Transmission)	1
	. . . . .	Control Valve Assembly	1
1	1624637	Plate	1
2	1624638	Gasket	1
3	1624363	Regulator Valve Assembly (☞Figure 5-20)	1
4	1624639	Gasket	2
5	1624640	Separator Plate	1
6	1624364	Modulator Valve Assembly (☞Figure 5-22)	1
7	1590532	Lockwasher	7
8	1624641	Screw	7
	~~1624366~~		
	4013868	Kit-Seal	1

CONTROL VALVE ASSEMBLY (FIGURE 5-18)

(S/N B236E01617K ↔ S/N B236E01680L)



HP240622

ITEM	PART NO.	DESCRIPTION	QTY
	4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624637	Plate	1
2	1624638	Gasket	1
3	1624363	Regulator Valve Assembly (☞Figure 5-20)	1
4	1624639	Gasket	2
5	1624640	Separator Plate	1
6	1624364	Modulator Valve Assembly (☞Figure 5-22)	1
7	1590532	Lockwasher	7
8	1624641	Screw	7
	~~1624366~~		
	4013868	Kit-Seal	1

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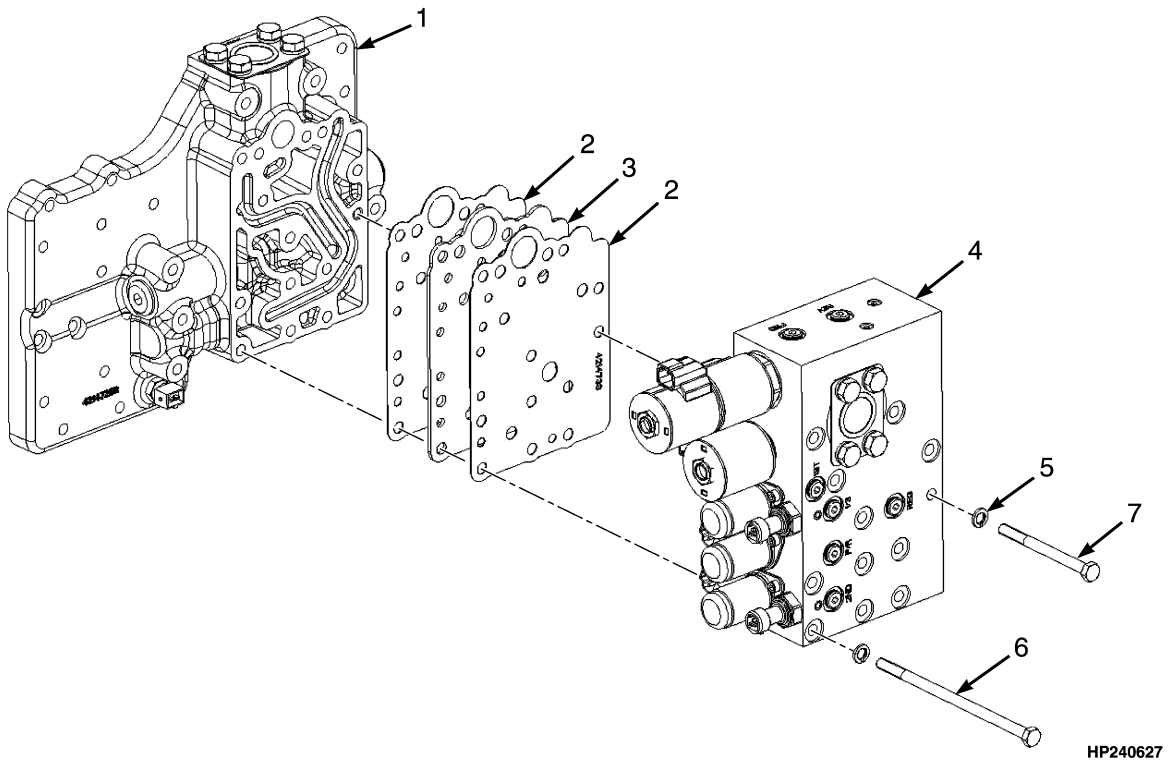
CONTROL VALVE ASSEMBLY (FIGURE 5-19)

(S/N B236E01681L → (TE-17)) (S/N B236E01682L → (TE-13))



ITEM	PART NO.	DESCRIPTION	QTY
	4055126	Transmission Assy (TE-13) (Full Flow)	1
	4055127	Transmission Assy (TE-17) (Full Flow)	1
1	4059184	Regulator Valve Assembly (☞Figure 5-21)	1
2	4059185	Gasket	2
3	4059186	Plate	1
4	4059187	Flow Valve Assembly (☞Figure 5-24)	1
5	1590532	Lockwasher	2
6	4059181	Screw	1
7	4015507	Bumper	1

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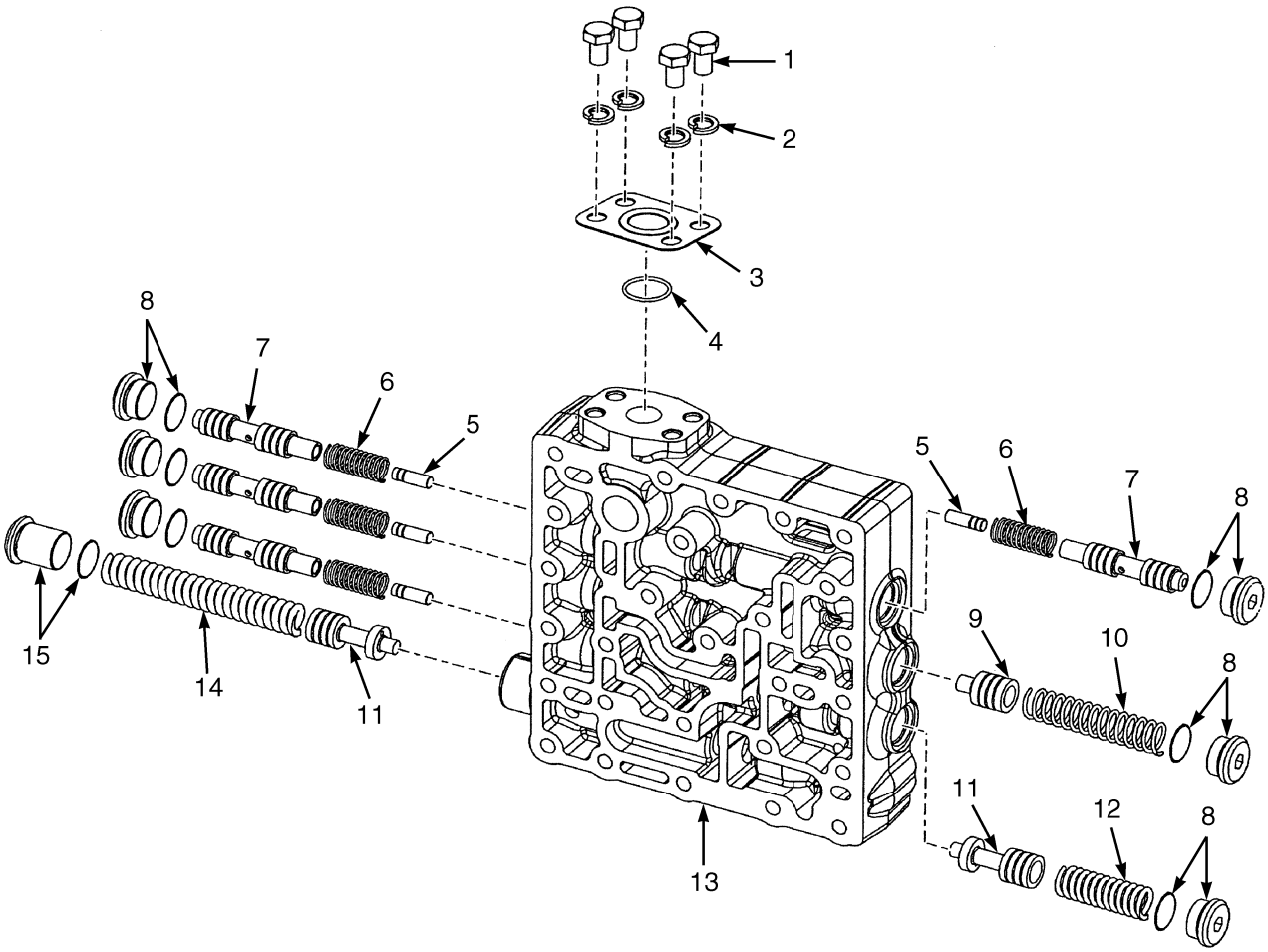
REGULATOR VALVE ASSEMBLY (FIGURE 5-20)

(→ S/N B236E01680L)



HP240548

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REGULATOR VALVE ASSEMBLY

(→ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	b 1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	a 1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	c 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1612313	Capscrew	4
2	1612314	Lockwasher	4
3	1612311	Cover	1
4	1612312	O-Ring	1
5	. . . . .	Spool (Pressure Intensifier)	4
6	1646501	Spring (Booster)	4
7	. . . . .	Piston (Pressure Intensifier)	4
8	1624368	Plug	8
8	1612905	O-Ring	1
9	. . . . .	Spool (Converter Bypass)	1
10	1646502	Spring (Bypass)	1
11	. . . . .	Spool (Regulator)	2
12	1646503	Spring (Safety Valve)	1
13	. . . . .	Body	1
14	1646500	Spring (Pressure Regulator)	1
15	1624631	Plug	1
15	1612905	O-Ring	1
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a → S/N B236E01616K
b → S/N B236E01681L
c S/N B236E01617K ↔ S/N B236E01680L

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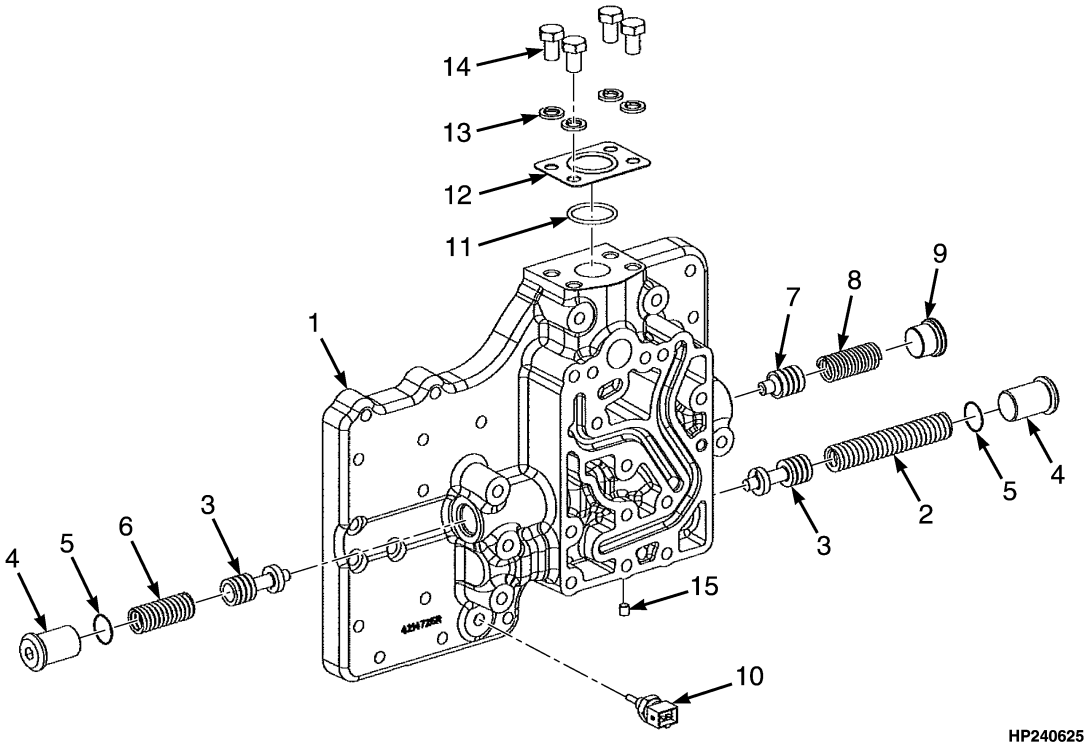
REGULATOR VALVE ASSEMBLY (FIGURE 5-21)

(S/N B236E01681L → (TE-17)) (S/N B236E01682L → (TE-13))



ITEM	PART NO.	DESCRIPTION	QTY
	4055126	Transmission Assy (TE-13) (Full Flow)	1
	4055127	Transmission Assy (TE-17) (Full Flow)	1
	4059184	Regulator Valve Assembly	1
1	. . . . .	Valve Body	1
2	4059188	Spring	1
3	. . . . .	Pressure Regulator Spool	2
4	4059189	Plug	2
5	1612905	O-Ring	2
6	1646503	Spring	1
7	. . . . .	Conv Bypass Spool	1
8	1646502	Spring	1
9	1684337	Plug	1
10	1655456	Sensor (Temperature)	1
11	1612312	O-Ring	1
12	1612311	Cover	1
13	1612314	Lockwasher	4
14	1612313	Capscrew	4
15	. . . . .	Expansion Plug	1

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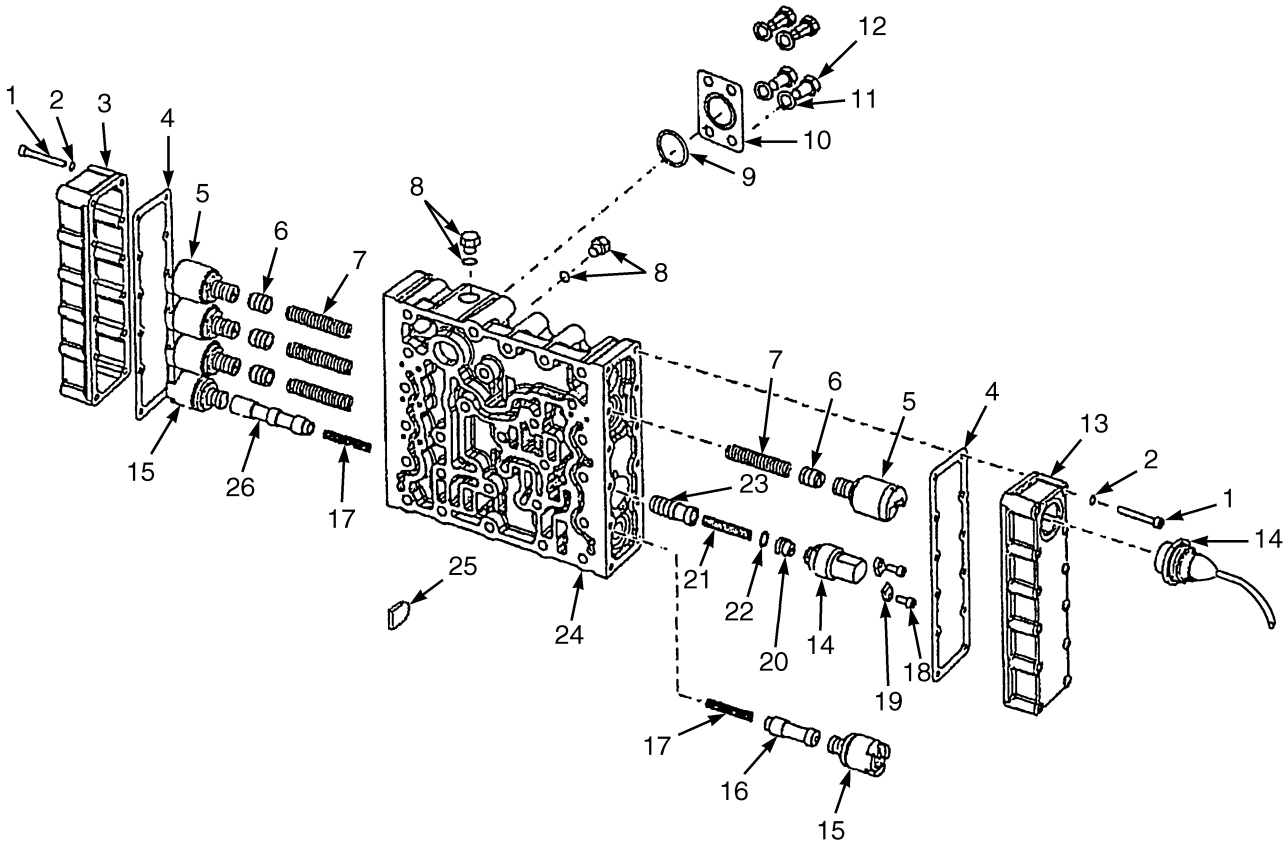
MODULATOR VALVE ASSEMBLY (FIGURE 5-22)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))



HP240549

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MODULATOR VALVE ASSEMBLY

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624636	Capscrew	24
2	1557011	Lockwasher	24
3	4033109	Cover (Solenoid)	1
4	1624634	Gasket	2
5	1565474	Solenoid (VFS)	4
6	. . . . .	Spool (Accumulator)	4
7	1641841	Spring (Accumulator)	4
8	1557007	Plug	12
8	1557008	O-Ring	1
9	1612312	O-Ring	1
10	1612311	Cover	1
11	1612314	Lockwasher	4
12	1612313	Capscrew	4
13	4033108	Cover (Solenoid)	1
14	1624635	Wire Harness (Modulator)	1
15	1579141	Solenoid (12V)	2
16	. . . . .	Spool (Total Neutral)	1
17	1646498	Spring (Selector Valve)	2
18	. . . . .	Screw	2
19	. . . . .	Clamp (Pressure Switch)	2
20	1624633	Stop (Reducer Spool)	1
21	1641838	Spring (Pressure Reducer)	1
22	382628	O-Ring	1
23	. . . . .	Spool (Pressure Reducer)	1
24	. . . . .	Body	1
25	1585091	Pin	1
26	. . . . .	Spool (First And Third)	1
	~~1624366~~		
	4013868	Kit-Seal	1

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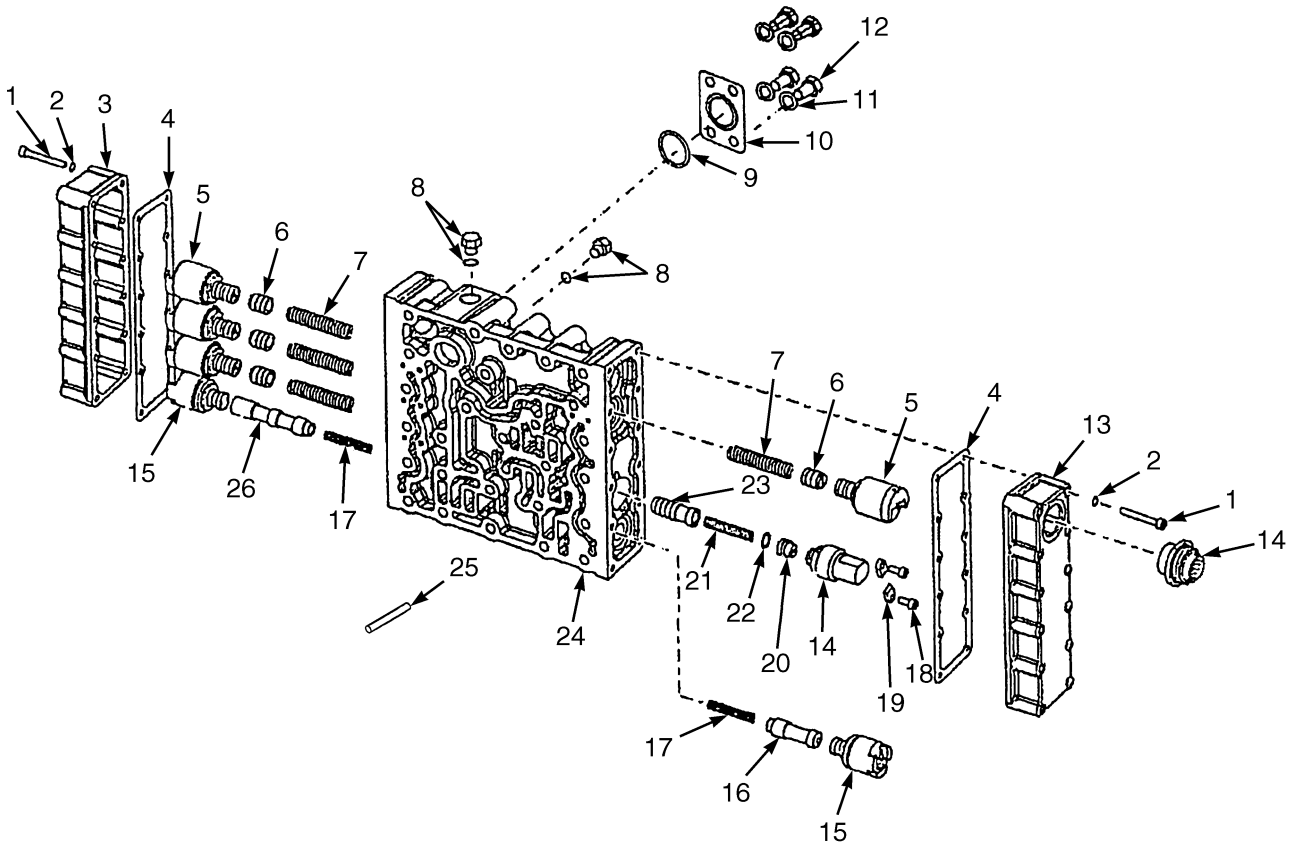
MODULATOR VALVE ASSEMBLY (FIGURE 5-23)

(S/N B236E01617K ↔ S/N B236E01680L)



HP240621

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MODULATOR VALVE ASSEMBLY

(S/N B236E01617K ↔ S/N B236E01680L)

ITEM	PART NO.	DESCRIPTION	QTY
	4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624636	Capscrew	24
2	1557011	Lockwasher	24
3	4033109	Cover (Solenoid)	1
4	1624634	Gasket	2
5	1565474	Solenoid (VFS)	4
6	. . . . .	Spool (Accumulator)	4
7	1641841	Spring (Accumulator)	4
8	1557007	Plug	12
8	1557008	O-Ring	1
9	1612312	O-Ring	1
10	1612311	Cover	1
11	1612314	Lockwasher	4
12	1612313	Capscrew	4
13	4033108	Cover (Solenoid)	1
14	1624635	Wire Harness (Modulator)	1
15	1579141	Solenoid (12V)	2
16	. . . . .	Spool (Total Neutral)	1
17	1646498	Spring (Selector Valve)	2
18	. . . . .	Screw	2
19	. . . . .	Clamp (Pressure Switch)	2
20	1624633	Stop (Reducer Spool)	1
21	1641838	Spring (Pressure Reducer)	1
22	382628	O-Ring	1
23	. . . . .	Spool (Pressure Reducer)	1
24	. . . . .	Body	1
25	1585091	Pin	1
26	. . . . .	Spool (First And Third)	1
	~~1624366~~		
	4013868	Kit-Seal	1

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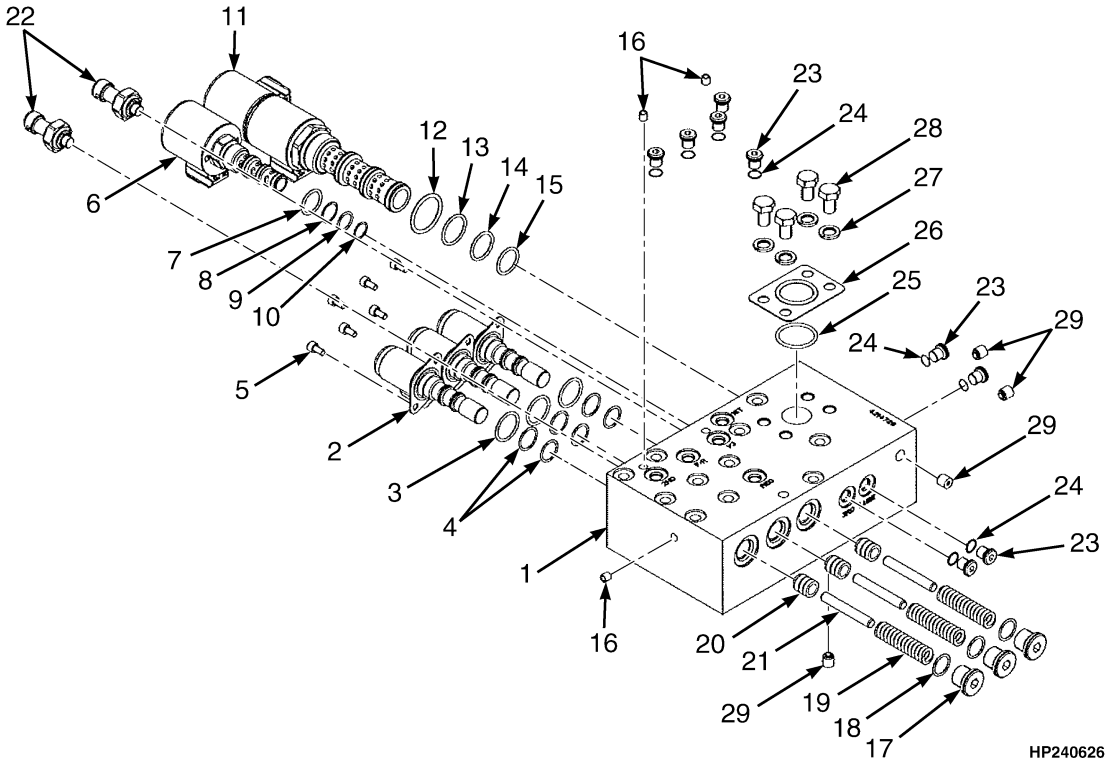
FULL FLOW VALVE ASSEMBLY (FIGURE 5-24)

(S/N B236E01681L → (TE-17)) (S/N B236E01682L → (TE-13))



ITEM	PART NO.	DESCRIPTION	QTY
	4055126	Transmission Assy (TE-13) (Full Flow)	1
	4055127	Transmission Assy (TE-17) (Full Flow)	1
	4059187	Flow Valve Assembly	1
1	. . . . .	Valve Body	1
2	4015132	Solenoid Valve	3
3	1324792	O-Ring	3
4	1324790	Retainer O-Ring	6
5	1655638	Capscrew	6
6	4027259	Solenoid	1
7	1612905	O-Ring	1
8	1530732	O-Ring	1
9	1324790	Retainer O-Ring	1
10	1504400	O-Ring	1
11	4015497	Solenoid Assembly	1
12	4012267	O-Ring	1
13	1655799	O-Ring	1
14	4012266	O-Ring	1
15	4012265	O-Ring	1
16	. . . . .	Expansion Plug	3
17	4015499	Plug	3
18	1530732	O-Ring	3
19	4024031	Spring ,(Accumulator)	3
20	4015133	Spool	3
21	4015134	Pin (Accumulator Stop)	3
22	1655633	Sensor (Valve Pressure)	2
23	1655460	Plug	9

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ITEM	PART NO.	DESCRIPTION	QTY
24	15860	O-Ring	9
25	1612312	O-Ring	1
26	1612311	Cover	1
27	1612314	Lockwasher	4
28	1612313	Capscrew	4
29	. . . . .	Expansion Plug	4

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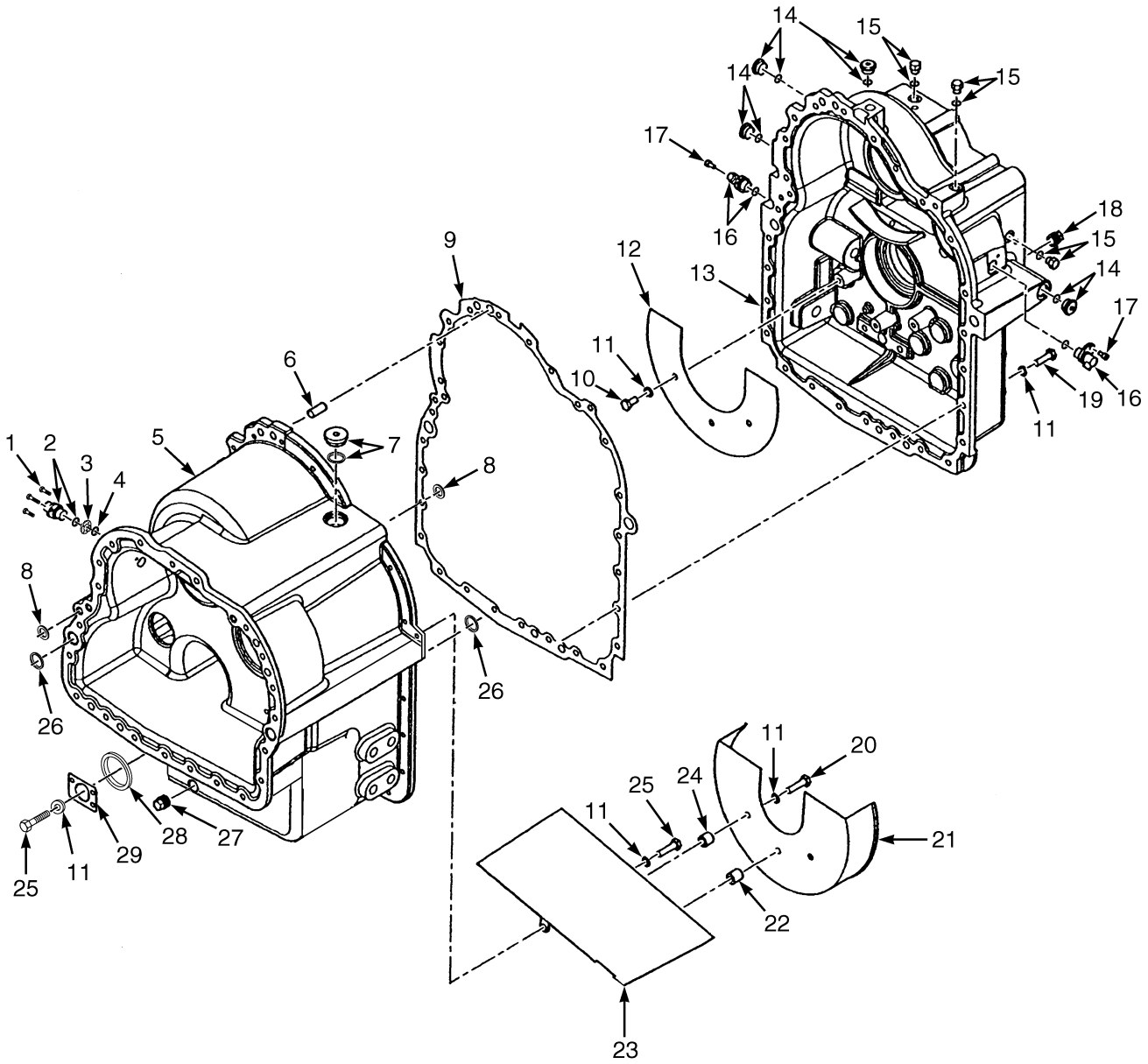
CASE AND REAR COVER (FIGURE 5-25)

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))



HP240538

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CASE AND REAR COVER

(→ S/N B236E01616K (TE-17)) (→ S/N B236E01681L (TE-13))

ITEM	PART NO.	DESCRIPTION	QTY
	1704582	Transmission Assy (TE-13) (Tier III Engines Only)	1
	1704583	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
1	1624397	Capscrew	1
2	1624395	Sensor (Speed)	1
2	1579011	O-Ring	1
2	1624397	Capscrew	1
3	1624396	Bushing	1
4	1624394	O-Ring	1
5	1705537	Case	1
6	1579009	Pin	4
7	1624371	Plug	1
7	1624372	O-Ring	1
8	382628	O-Ring	6
9	1624391	Gasket	1
10	1624413	Capscrew	3
11	1612314	Lockwasher	37
12	1624410	Cover (Oil Baffle)	1
13	1624398	Cover	1
14	1624368	Plug	5
14	1612905	O-Ring	1
14	1612293	Plug (Expansion)	5
15	1624369	Plug	3
15	1624370	O-Ring	1
16	1624393	Sensor (Speed)	2
16	1579011	O-Ring	1
17	1556910	Capscrew	2
18	. . . . .	Plug	1
19	1624374	Capscrew	26
20	1624412	Capscrew	3
21	1624409	Baffle	1
22	1624399	Spacer	1
23	1624411	Baffle	1
24	1624400	Spacer	2
25	1612313	Capscrew	5
26	1624376	O-Ring	1
27	1612332	Drain Plug (Magnetic) (Magnetic)	1
28	1530745	O-Ring	4
29	1612311	Cover (Shipping)	1
	a 1612347	Bracket	4
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a Not Illustrated

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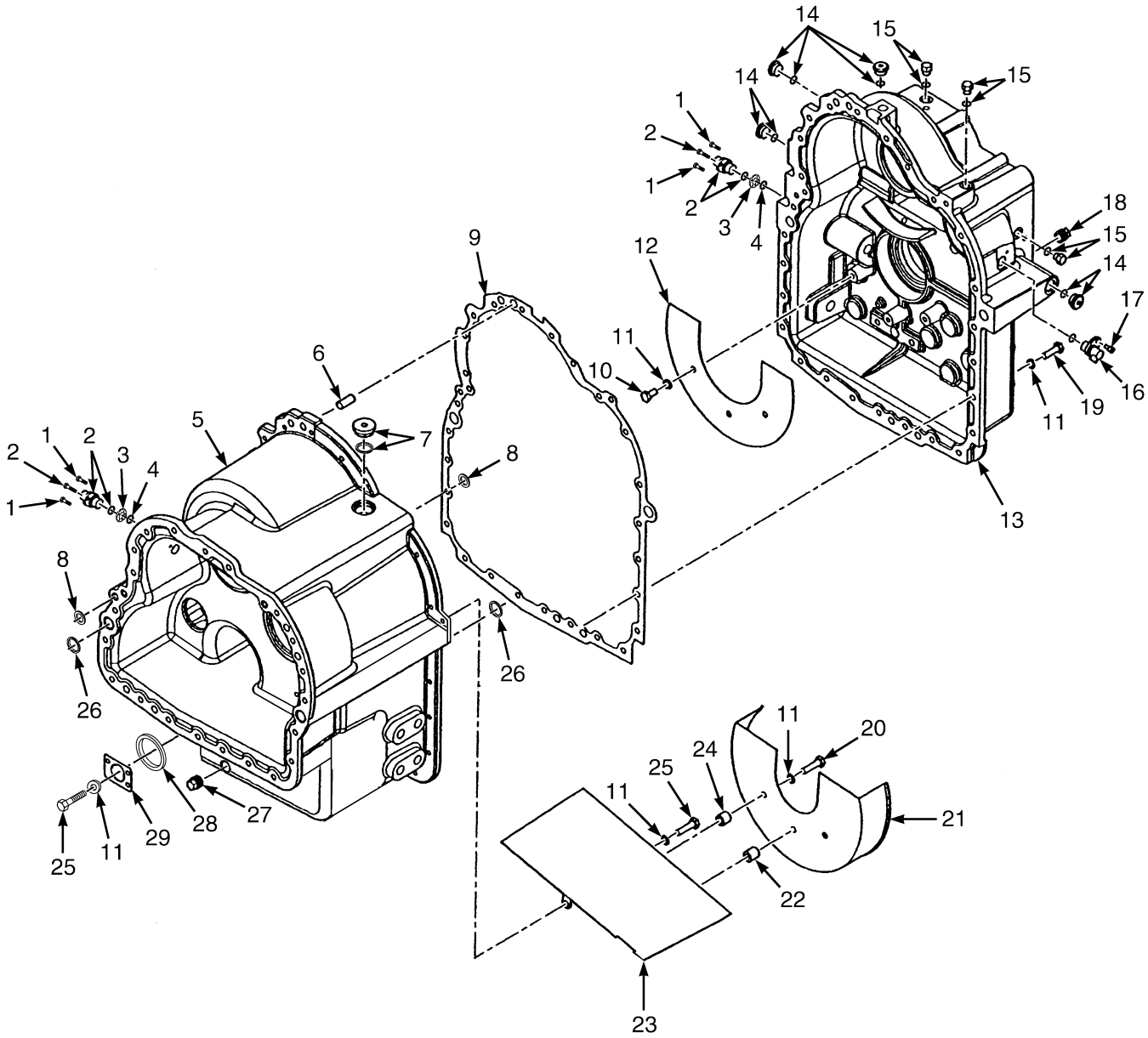
CASE AND REAR COVER (FIGURE 5-26)

(S/N B236E01617K → (TE-17)) (S/N B236E01681L → (TE-13))



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CASE AND REAR COVER

(S/N B236E01617K → (TE-17)) (S/N B236E01681L → (TE-13))

ITEM	PART NO.	DESCRIPTION	QTY
	b 4018225	Transmission Assy (TE-17) (Tier III and Tier IV Interim Engines)	1
	d 4055126	Transmission Assy (TE-13) (Full Flow)	1
	c 4055127	Transmission Assy (TE-17) (Full Flow)	1
1	1556910	Capscrew	4
2	1624395	Sensor (Speed)	2
2	1579011	O-Ring	1
2	1624397	Capscrew	1
3	4055491	Bushing	1
4	1624394	O-Ring	2
5	1705537	Case	1
6	1579009	Pin	4
7	1624371	Plug	1
7	1624372	O-Ring	1
8	382628	O-Ring	6
9	1624391	Gasket	1
10	1624413	Capscrew	3
11	1612314	Lockwasher	37
12	1624410	Cover (Oil Baffle)	1
13	4055492	Cover Assembly	1
14	1624368	Plug	4
14	1612905	O-Ring	1
14	1612293	Plug (Expansion)	4
15	1624369	Plug	3
15	1624370	O-Ring	1
16	1624393	Sensor (Speed)	1
16	1579011	O-Ring	1
17	1624397	Capscrew	1
18	. . . . .	Plug	1
19	1624374	Capscrew	26
20	1624412	Capscrew	3
21	1624409	Baffle	1
22	1624399	Spacer	1
23	1624411	Baffle	1
24	1624400	Spacer	2
25	1612313	Capscrew	5
26	1530745	O-Ring	1
27	1612332	Drain Plug (Magnetic) (Magnetic)	1
28	1624376	O-Ring	4
29	1612311	Cover (Shipping)	1
	a 1612347	Bracket	4
	~~1624366~~		
	4013868	Kit-Seal	1

FOOTNOTES:

a Not Illustrated
b → S/N B236E01680L
c S/N B236E01681L →
d S/N B236E01682L →

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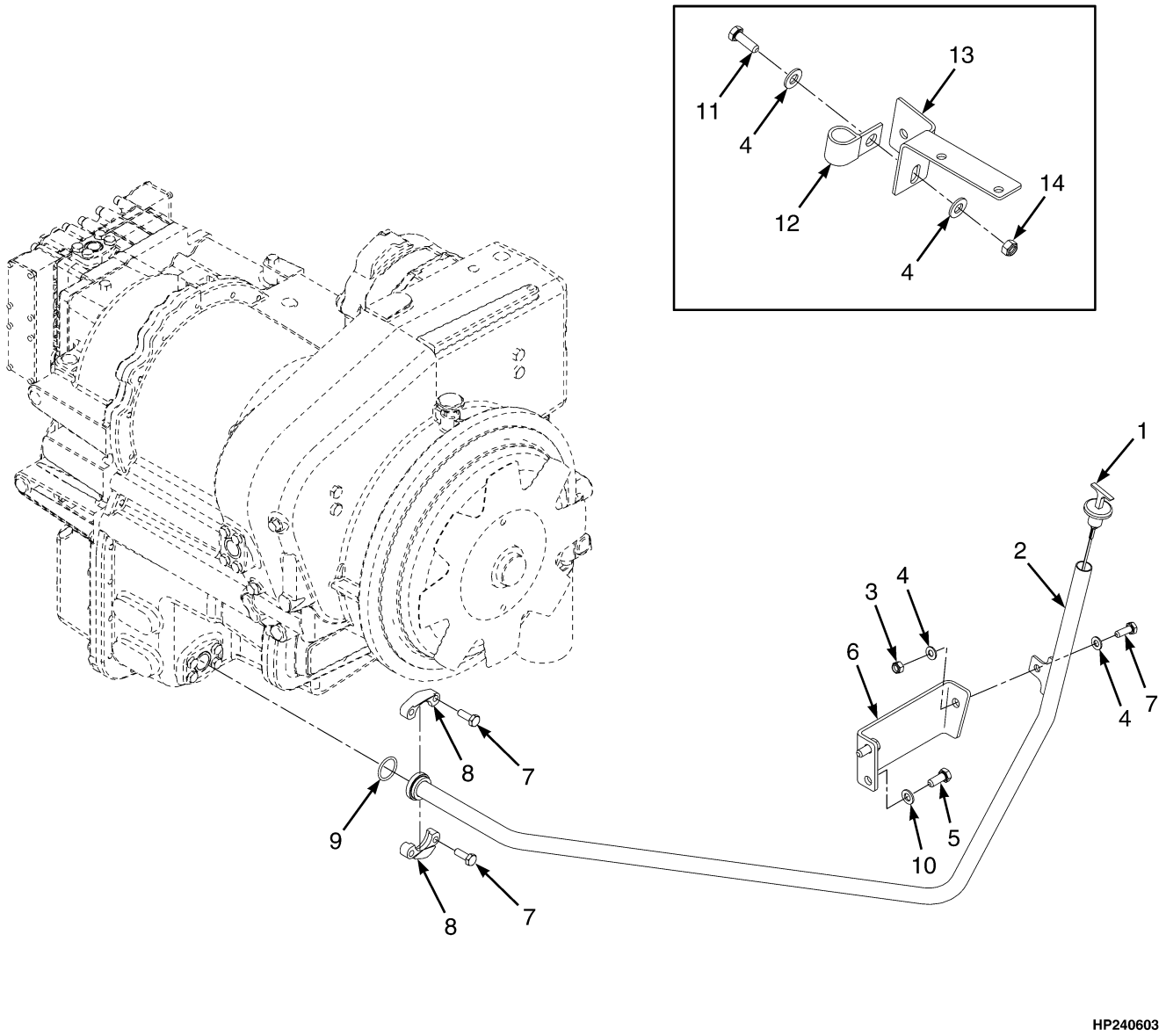
FLUID INDICATOR AND ATTACHING PARTS (FIGURE 5-27)



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FLUID INDICATOR AND ATTACHING PARTS

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	2056545	Dipstick	1	1
2	1612245	Tube	1	1
3	302401	Locknut	1	1
4	320159	Washer	2	4
5	292527	Capscrew	2	2
6	~~1627720~~			
	4054922	Bracket	1	1
7	136985	Capscrew	5	5
8	190757	Clamp (Split Half)	2	2
9	169787	O-Ring	1	1
10	320161	Washer	2	2
11	136749	Screw	..	1
12	298132	Clamp	..	1
13	4023433	Bracket	..	1
14	302400	Nut	..	1

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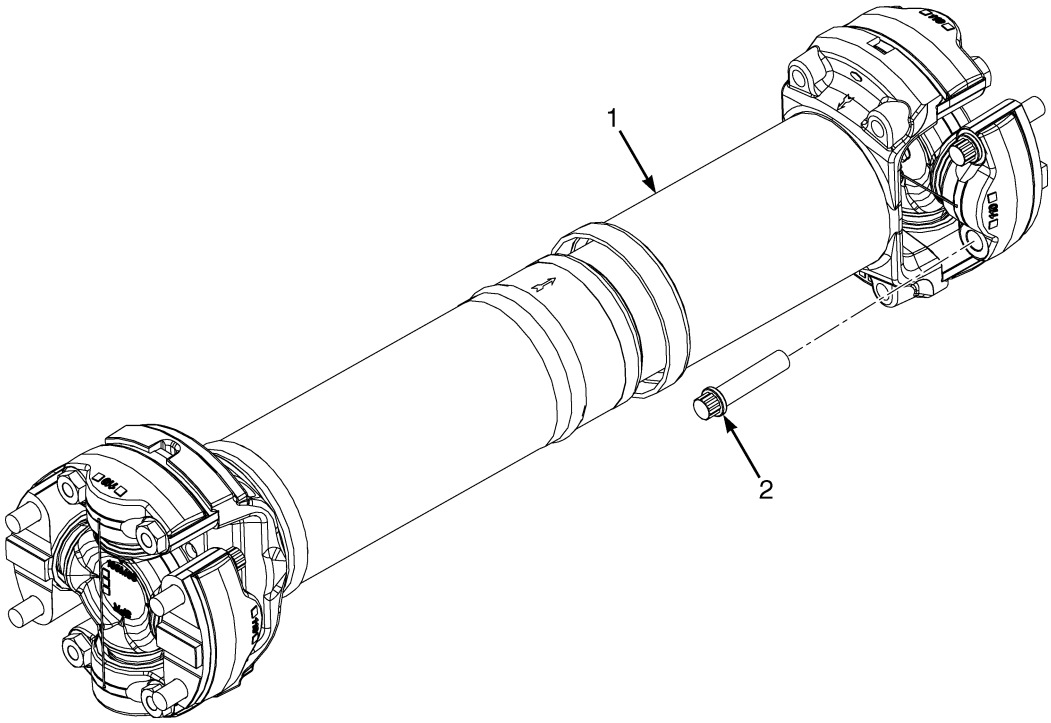
UNIVERSAL SHAFT (FIGURE 5-28)



HP240648

ITEM	PART NO.	DESCRIPTION	QTY
1	1590542	Universal Joint	1
1	1478794	Shaft	1
1	1478795	Kit-Shaft Universal Joint	1
1	1566519	Universal Joint (Kit) (Alternate Part)	1
2	177051	Capscrew	8

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NOTES

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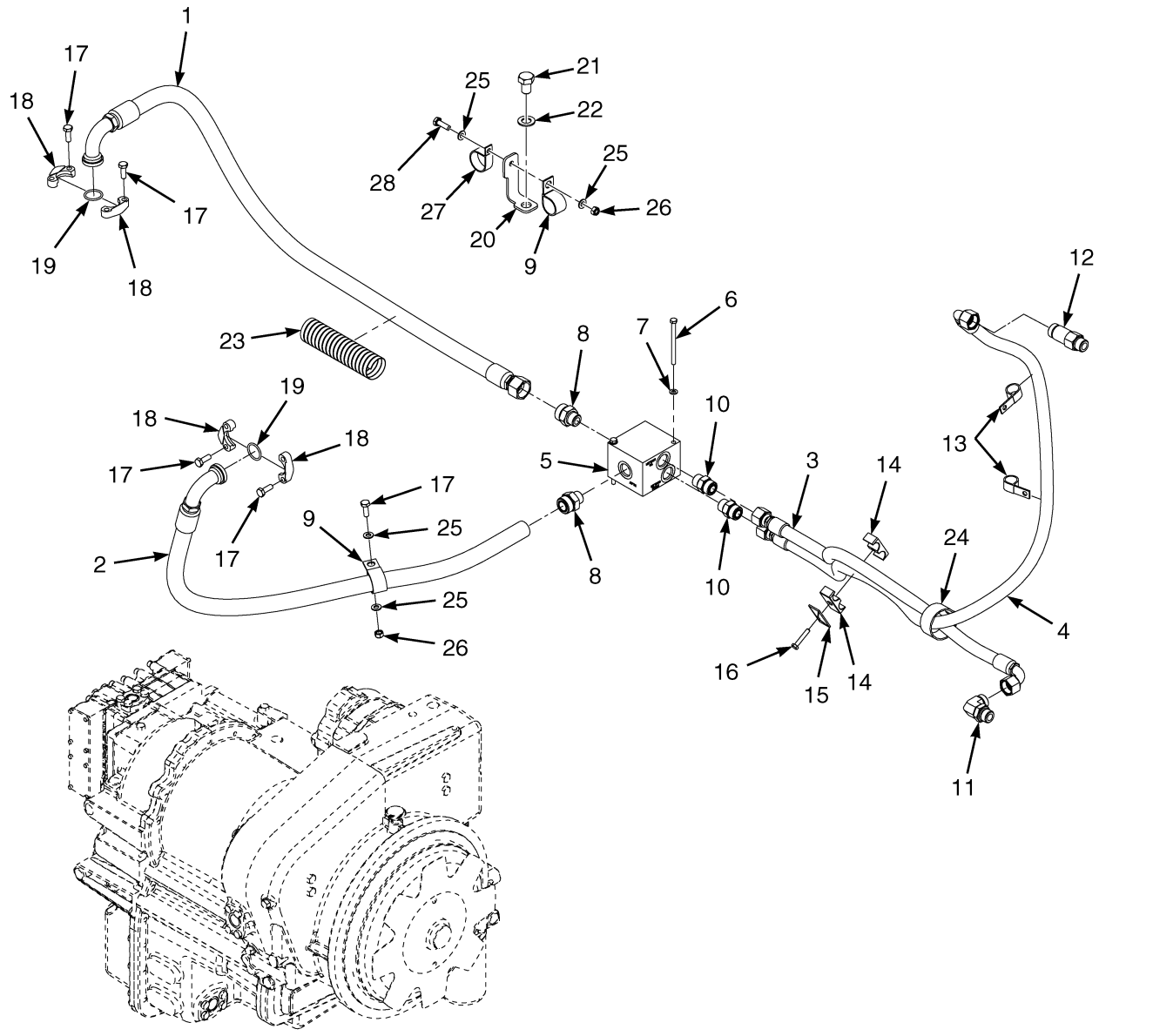
TRANSMISSION HOSES AND ATTACHING PARTS (FIGURE 5-29)



HP240602

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TRANSMISSION HOSES AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	4019416	Hose Assy	1
2	1606281	Hose Assy	1
3	4019508	Hose Assy	1
4	4019507	Hose Assy	1
5	**a** 2106369	Valve (Thermal Bypass)	1
5	**b** 4620644	Valve (Thermal Bypass)	1
6	1307994	Capscrew	2
7	320157	Washer	2
8	1486758	Fitting	2
8	244167	O-Ring	1
8	~~1450764~~		
	16486	O-Ring	1
9	176452	Clamp	2
10	1473888	Fitting	2
10	~~1495115~~		
	280154	O-Ring	1
10	~~1450764~~		
	16486	O-Ring	1
11	~~6996696~~		
	1473898	Fitting (UNF 90 Deg.)	1
11	~~1495115~~		
	280154	O-Ring	1
11	~~1450764~~		
	16486	O-Ring	1
12	1528597	Fitting	1
12	~~1495115~~		
	280154	O-Ring	1
12	~~1450764~~		
	16486	O-Ring	1
13	1310611	Clamp	2
14	1618452	Clamp	1
15	1533649	Cover Plate	1
16	214364	Capscrew	1
17	136985	Capscrew	9
18	190757	Clamp (Split Half)	4
19	169787	O-Ring	2
20	4034353	Plate	1
21	292578	Capscrew	1
22	~~4020900~~		
	320169	Washer	1
23	316596	Sleeve (Coil)	1
24	1557756	Strap (Static)	1
25	320159	Washer	4
26	302401	Locknut	2
27	1316496	Clamp	1
28	287860	Capscrew	1

FOOTNOTES:

a → S/N B236E01680L

b S/N B236E01681L →

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6 DRIVE AXLE

SECTION 6
DRIVE AXLE

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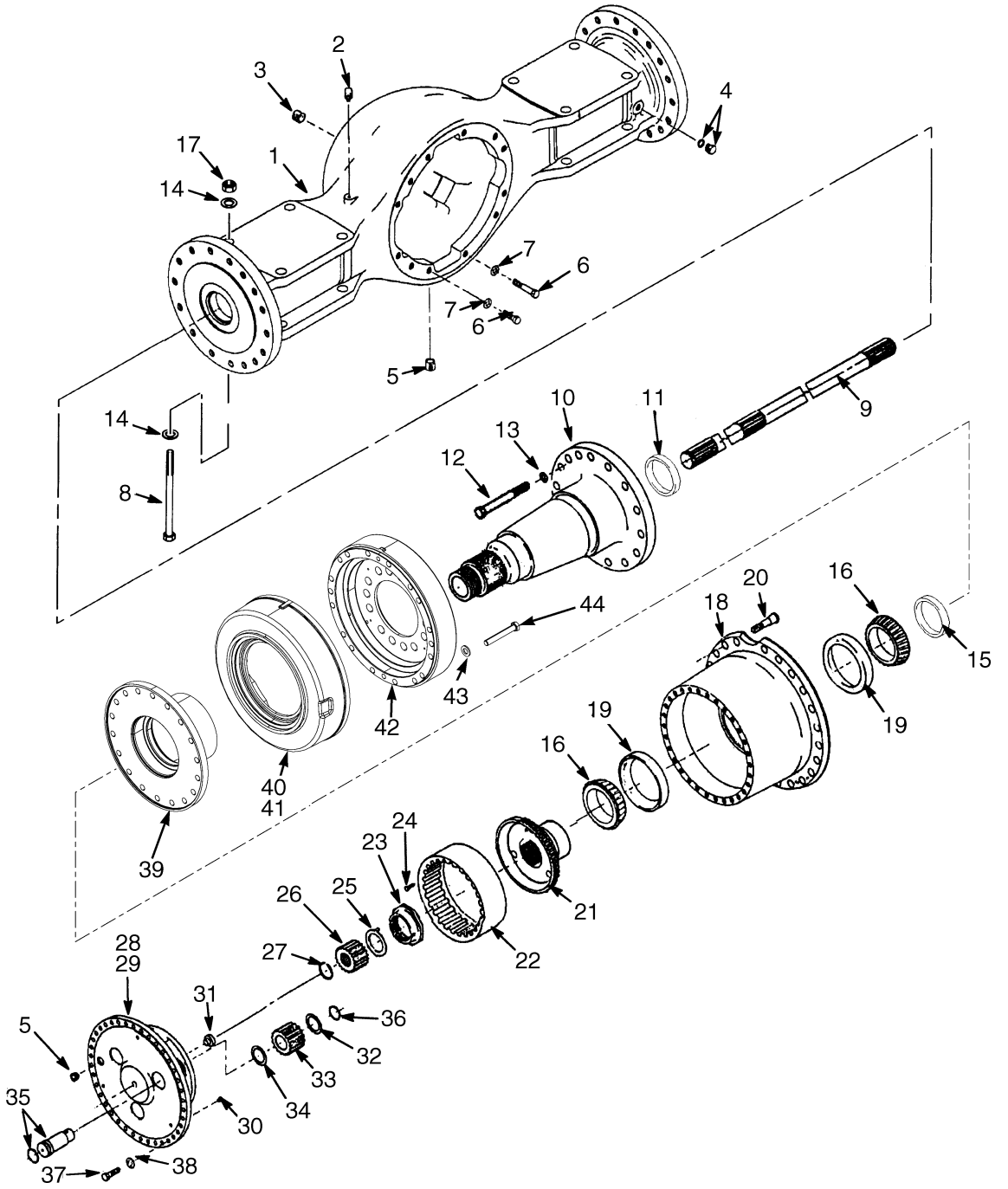
DRIVE AXLE ASSEMBLY (FIGURE 6-1)



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DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	b 1654425	Drive Axle Assembly	1
	c 4030488	Drive Axle Assembly	1
	d 4057119	Drive Axle Assembly (2095 mm Wide Track)	1
1	1658247	Housing Assembly	1
2	1613651	Breather	1
3	15316	Fitting	1
4	1384877	Plug Assembly	2
4	1384878	Rod	1
4	1384879	Spring Guide	1
4	1384880	Spring	1
4	1384881	Roll Pin	1
5	321293	Plug	3
6	1497903	Screw	12
7	86007	Washer	12
8	2079027	Capscrew	8
9	1634906	Axle Shaft (RH)	1
9	1634907	Axle Shaft (LH)	1
10	1619110	Spindle Assembly	2
11	1619112	Sleeve (Oil Seal)	1
12	1619116	Screw Assembly	28
13	1619118	O-Ring	1
14	296438	Washer	20
15	1489420	Seal , Face	2
16	210084	Bearing Cone	4
17	292661	Nut	8
18	~~1619124~~		
	4085331	Hub Assembly	2
19	4085332	Bearing Set	2
19	30258	Bearing Cup	1
19	210084	Bearing Cone	1
20	1511548	Wheel Stud	24
21	1382574	Hub	2
22	1450868	Gear	2
23	1499564	Nut	2
24	1547980	Screw	2
25	1382572	Thrust Washer	2
26	1382571	Gear	2
27	208107	Snap Ring	2
28	1619126	Spider Assembly	2
29	1619127	O-Ring	1
30	273969	Button (Thrust)	3
31	1619130	Thrust Washer	1
32	1450867	Thrust Washer	3
33	1382570	Gear	3
34	97638	Washer	3
35	1450865	Shaft	3
36	1499594	Snap Ring	3
37	1473839	Capscrew	60
38	88587	Washer	60
39	1619119	Brake Driver	2
40	1619136	Housing (Brake)	2

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DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
41	. . . . .	Wet Brake Assembly	2
42	1619132	Housing (Piston)	2
43	1482765	Washer	36
44	1619122	Capscrew	36
	a 1619115	O-Ring	2
	a 1619113	Screw (Special)	4
	a 1619114	O-Ring	4
	a 1619120	Oil Seal	2
	a 1619121	O-Ring	2

FOOTNOTES:

a Not Illustrated
b → S/N B236E01537J
c S/N B236E01538J ↔ S/N B236E01610K
d S/N B236E01611K →

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NOTES

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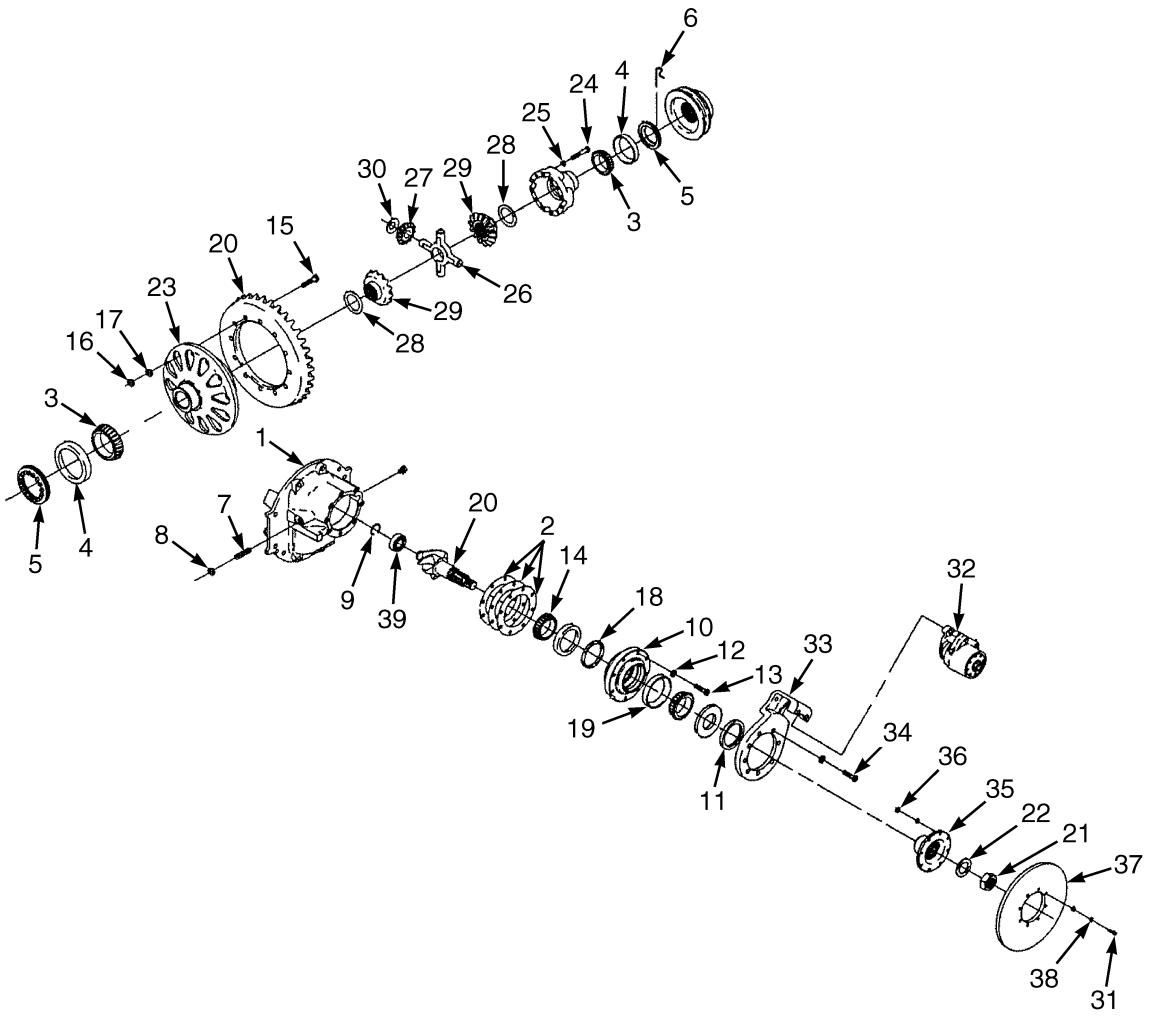
DIFFERENTIAL AND CARRIER (FIGURE 6-2)



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DIFFERENTIAL AND CARRIER

ITEM	PART NO.	DESCRIPTION	QTY
	1654806	Carrier Assembly	1
	~~1654807~~		
	4055075	Carrier Assembly	1
1	1642096	Carrier and Cap Assy	1
1	1380777	Ball	4
1	1347770	Washer	4
1	293716	Capscrew	4
2	1347813	Kit-Shim	1
2	1347814	Shim	1
2	1347815	Shim	2
2	1347816	Shim	3
2	1347817	Shim	1
3	1475421	Bearing Cone Set	2
4	1475420	Bearing Cup Set	2
5	1347839	Ring Bearing Set (Ring)	2
6	1566126	Cotter Pin	2
7	1374097	Screw	1
8	1312616	Locknut	1
9	240683	Snap Ring	1
10	1347772	Pinion (Cage Assembly)	1
10	200972	Bearing Cup , Tapered Roller	1
10	30062	Bearing Cup	1
11	1642099	Oil Seal	1
12	1450861	Washer	8
13	1566125	Capscrew	8
14	1347774	Bearing Cone (Inner)	1
15	1374099	Kit-Hardware	1
15	1347822	Bolt and Capscrew	12
16	1374550	Nut	12
17	125428	Washer	12
18	1347800	Kit-Spacer	1
19	1347812	Bearing Cone (Outer)	1
20	1642150	Gear and Pinion Assembly	1
21	1357734	Locknut	1
22	1312083	Washer	1
23	~~1642101~~		
	~~4055077~~		
	4197809	Case (Differential and Nest Assembly)	1
23	~~1643941~~		
	~~4055078~~		
	4198105	Case , Differential Assembly	1
24	1347831	Capscrew	16
25	1450861	Washer	16
26	1642102	Kit-Differential	1
26	~~1502130~~		
	1374558	Spider	1
27	1347835	Pinion	4
28	1642103	Thrust Washer	2
29	1379753	Gear	2
30	1642104	Thrust Washer	4
31	1554341	Capscrew	8

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DIFFERENTIAL AND CARRIER

ITEM	PART NO.	DESCRIPTION	QTY
32	1561604	Brake Assembly (Park Brake)	1
33	1489407	Adapter (Brake)	1
34	293654	Capscrew	5
35	1554339	Flange	1
36	221355	Locknut	8
37	1554340	Brake Disk	1
38	88587	Washer	16
39	296844	Bearing	1

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NOTES

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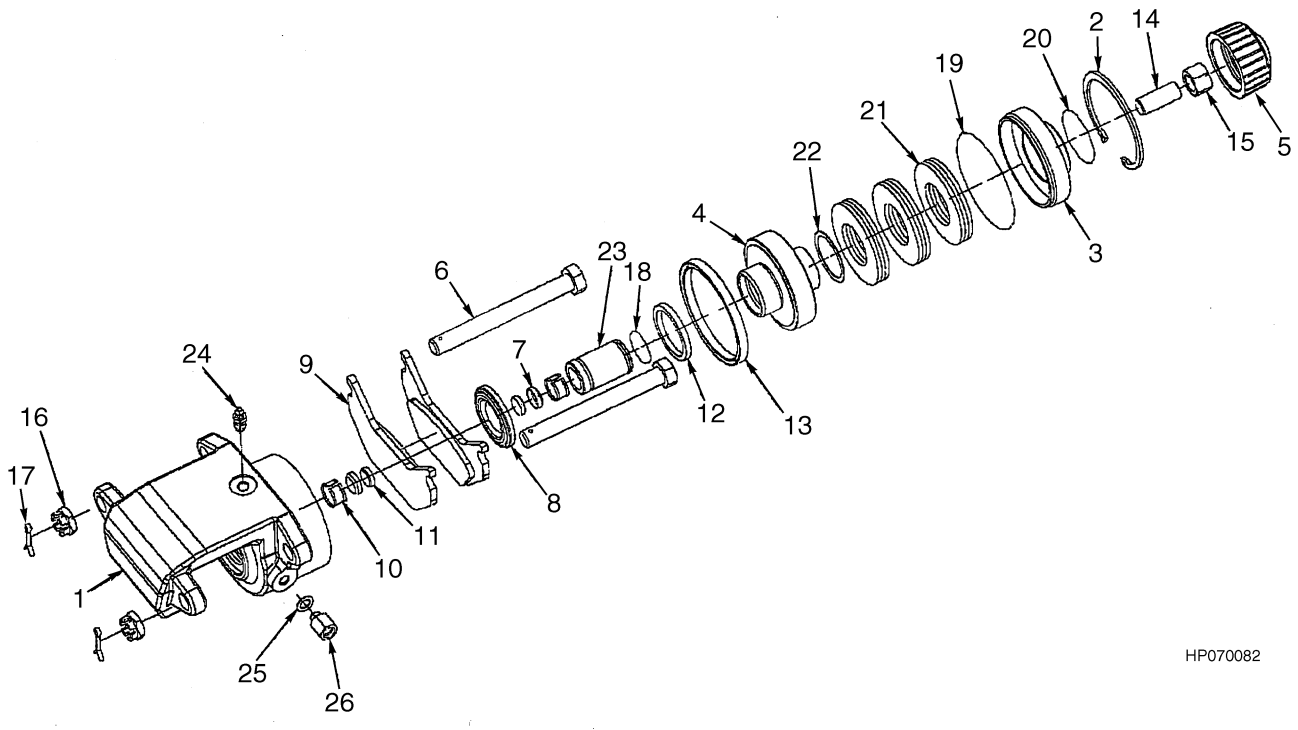
PARK BRAKE ASSEMBLY (FIGURE 6-3)



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PARK BRAKE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	a 1654425	Drive Axle Assembly	1
	b 4030488	Drive Axle Assembly	1
	c 4057119	Drive Axle Assembly (2095 mm Wide Track)	1
	1561604	Brake Assembly (Park Brake)	1
1	1495623	Housing	1
2	1495624	Retaining Ring	1
3	1495625	Piston (Stop)	1
4	1495626	Piston	1
5	1495627	Cap	1
6	1495628	Bolt	2
7	1495629	Cup	2
8	1495630	Boot	1
9	1495631	Brake Lining	2
10	1495632	Sleeve (Friction)	2
11	1495633	Magnet	2
11	. . . . .	Retaining Ring	1
12	1495634	Seal (Cup)	1
13	1495635	Seal (Cup)	1
14	1495636	Setscrew	1
15	1495637	Locknut	1
16	1495638	Nut	2
17	1495639	Cotter Pin	2
18	1495640	O-Ring	1
19	1495641	O-Ring	1
20	1495642	O-Ring	1
21	1495643	Disk Spring	6
22	1495644	Wear Plate	1
23	1495645	Plunger Assembly	1
24	1495646	Bleeder Valve	1
25	1495647	Washer	1
26	1495648	Adapter	1
	1514331	Kit-Repair Parking Brake	1

FOOTNOTES:

a → S/N B236E01537J
b S/N B236E01538J ↔ S/N B236E01610K
c S/N B236E01611K →

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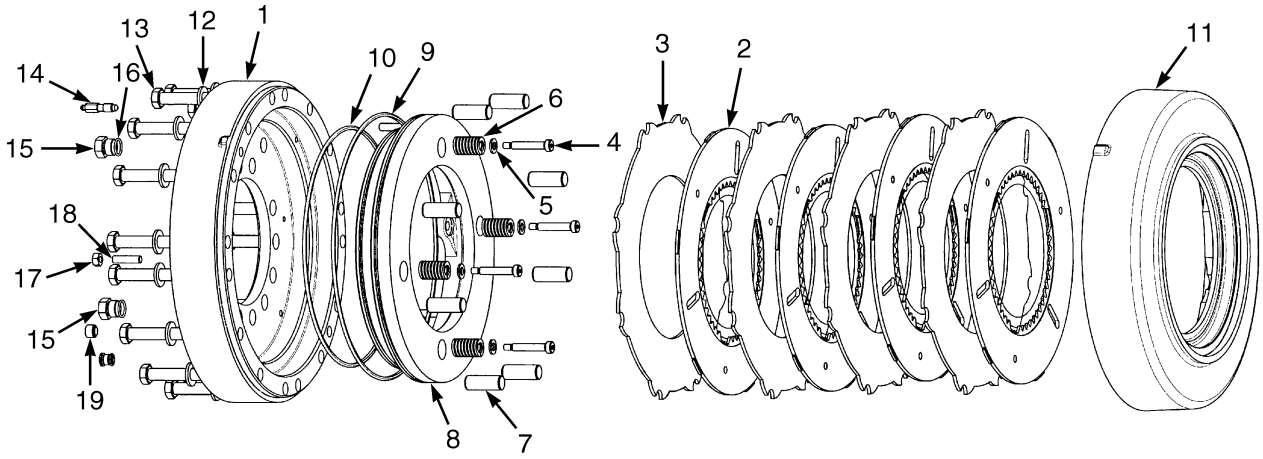
WET BRAKE ASSEMBLY (FIGURE 6-4)



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WET BRAKE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	b 1654425	Drive Axle Assembly	1
	c 4030488	Drive Axle Assembly	1
	d 4057119	Drive Axle Assembly (2095 mm Wide Track)	1
1	1619132	Housing (Piston)	2
2	1489440	Friction Disk	12
3	1489439	Separator Plate (Brake)	12
4	1619134	Screw	8
5	1313879	Washer	8
6	1619133	Return Spring	8
7	1619137	Dowel	16
8	1619135	Piston	2
9	1489427	Piston Seal (Outer)	2
10	1489428	Piston Seal (Inner)	2
11	1619136	Housing (Brake)	2
12	1482765	Washer	36
13	1619491	Capscrew	36
14	1384861	Bleeder Screw	4
15	1384859	Plug Assembly	4
16	1382902	O-Ring	1
17	1489430	Nut	6
18	1489429	Screw	6
19	1384864	Plug (Magnetic)	2
	a 16602	Screw (Nameplate)	2

FOOTNOTES:

a Not Illustrated
b → S/N B236E01537J
c S/N B236E01538J ↔ S/N B236E01610K
d S/N B236E01611K →

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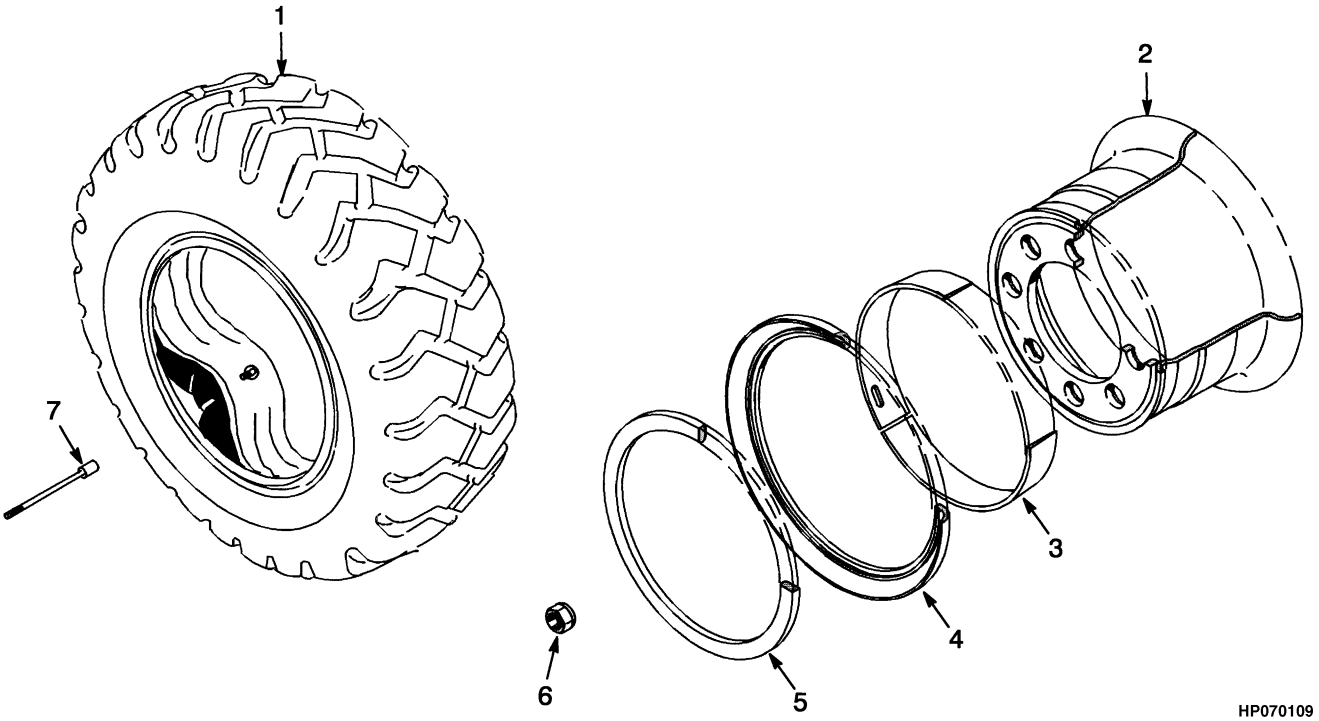
DRIVE TIRE AND WHEEL (FIGURE 6-5)

MICHELIN



KEY:
A: 12.00 x 24
B: 14.00 x 24

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1460448	Pneumatic Tire	4	..
1	1460451	Pneumatic Tire (Tubed 14.00 x 24 Radial)	..	4
1	1460398	Pneumatic Tire	1	..
1	1460405	Tube	1	..
1	1460402	Pneumatic Tire (Radial 14.00 x 24)	..	1
1	1460406	Tube	..	1
2	1385577	Wheel Assy	..	4
2	1614372	Wheel Assy	4	..
3	1466004	Ring (Side)	..	1
3	1538311	Ring	1	..
4	1452916	Ring (Conical)	1	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	48	48
7	~~1303417~~			
	49189	Extension (Valve Stem)	2	2
	a 816552	Support Ring	2	2

FOOTNOTES:

a Not Illustrated

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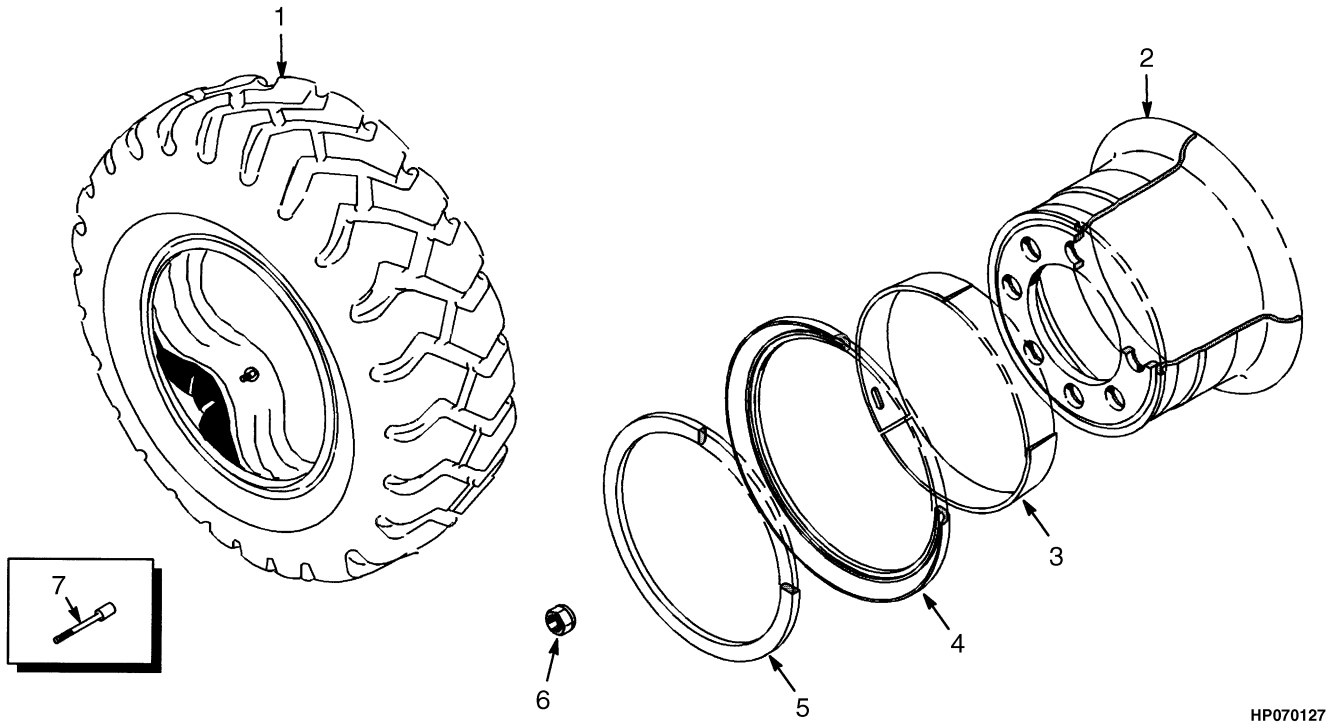
DRIVE TIRE AND WHEEL (FIGURE 6-6)
TRELLEBORG



KEY:
A: 12 x 24 - 20
B: 14 x 24 - 24

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1594933	Pneumatic Tire	1	..
1	1594934	Pneumatic Tire (Tubed 14.00 x 24 - 24 Bias)	..	1
1	1595479	Pneumatic Tire	1	..
1	1595480	Pneumatic Tire	..	1
1	1382383	Pneumatic Tire	1	..
1	1485936	Tube	..	1
2	1614372	Wheel Assy	1	..
2	1385577	Wheel Assy	..	1
3	1452916	Ring (Conical)	1	1
4	1538311	Ring	1	..
4	1466004	Ring (Side)	..	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	24	24
7	~~1303417~~			
	49189	Extension (Valve Stem)	2	2
	a 816552	Support Ring	2	2

FOOTNOTES:

a Not Illustrated

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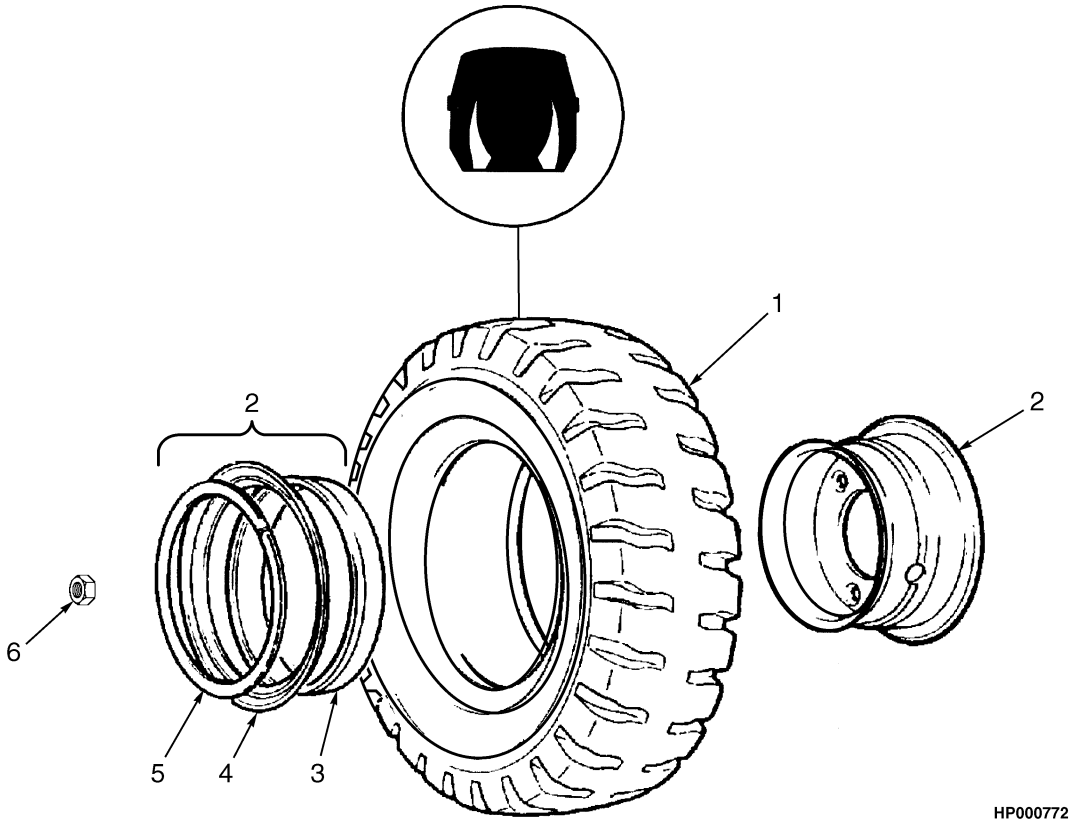
DRIVE TIRE AND WHEEL (FIGURE 6-7)

TRELLEBORG — SOLID TIRE



KEY:
A: 14.00 x 24 x 10
B: 12.00 x 24 x 10

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	~~1393797~~			
	1668701	Tire (Solid Pneumatic, With Tread 14.00 - 24)	4	..
1	1393796	Solid Pneumatic Tire	..	4
2	1385577	Wheel Assy	4	..
2	1385579	Wheel Assy	..	4
3	1466004	Ring (Side)	1	1
4	1452916	Ring (Conical)	1	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	48	48
	a 816552	Support Ring	2	2

FOOTNOTES:

a Not Illustrated

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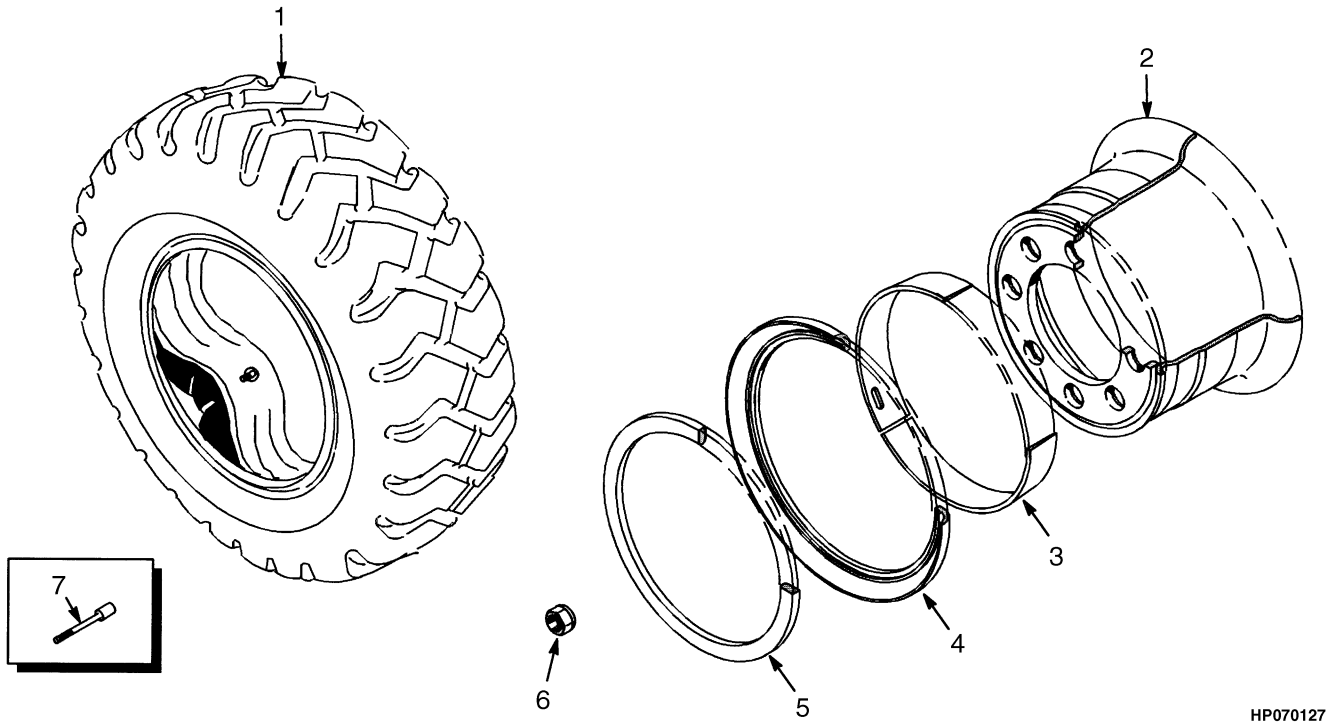
DRIVE TIRE AND WHEEL (FIGURE 6-8)
TRELLEBORG TR900



KEY:
A: 12 x 24
B: 14 x 24
C: 14 x 24, Tire Saver Axle

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B	QTY C
1	4085093	Pneumatic Tire	4	..	..
1	4039776	Pneumatic Tire (Tubed 14.00 x 24 Radial)	..	4	4
1	1485936	Tube	1	1	1
2	1614372	Wheel Assy	1	..	..
2	1385577	Wheel Assy	..	1	..
2	4005709	Wheel Assy	..	..	1
3	1452916	Ring (Conical)	1	1	..
4	1538311	Ring	1	..	..
4	1466004	Ring (Side)	..	1	..
5	~~1637809~~				
	1538310	Wheel Lock Ring	1	1	..
6	376026	Wheel Nut	24	24	24
7	~~1303417~~				
	49189	Extension (Valve Stem)	2	2	2
	a 816552	Support Ring	2	2	2

FOOTNOTES:

a Not Illustrated

NOTES

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7 STEERING SYSTEM

SECTION 7
STEERING SYSTEM

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TRELLEBORG - SOLID TIRE	7-14
TRELLEBORG TR900	7-15
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STEERING HOSES AND ATTACHING PARTS	7-10

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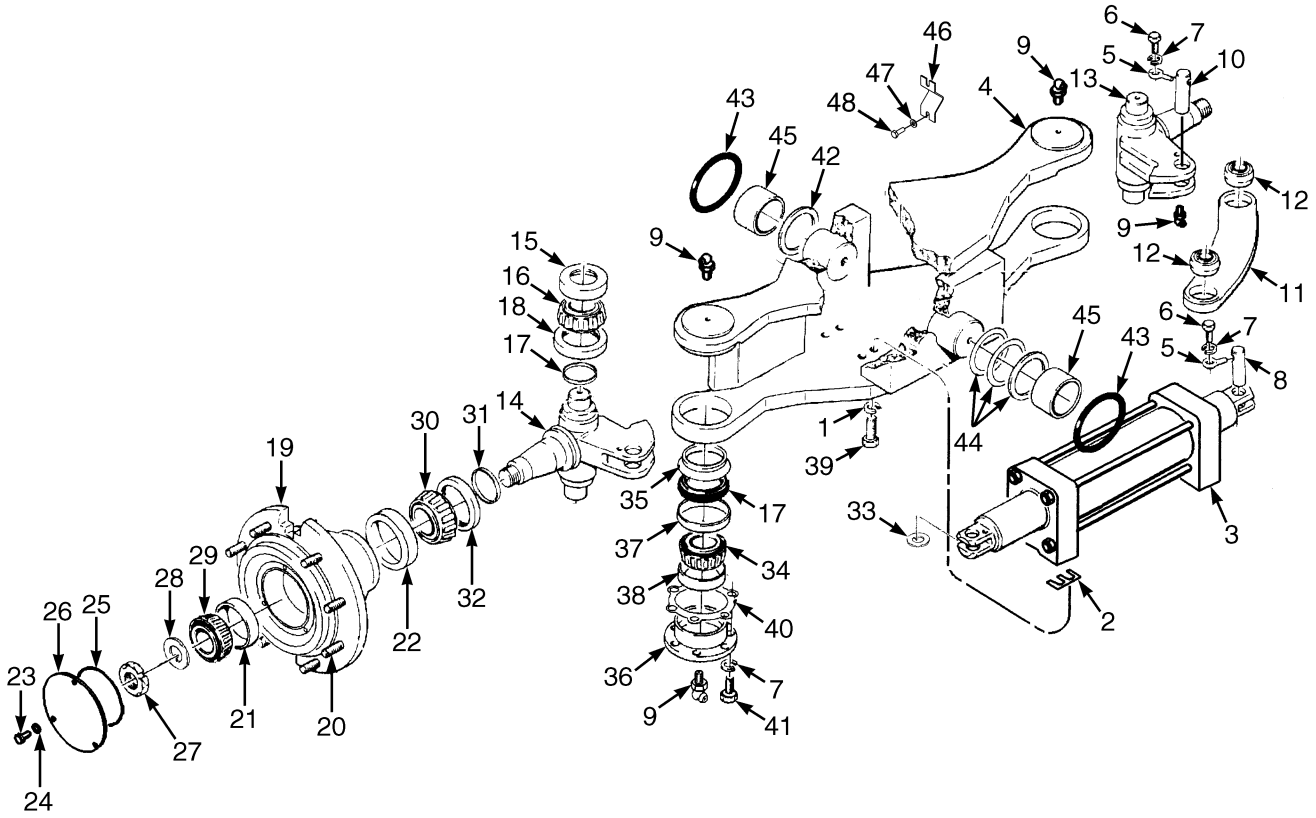
STEER AXLE ASSEMBLY (FIGURE 7-1)



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STEER AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	296434	Washer	8
2	1382352	Shim	AR
3	1393742	Steering Cylinder (☞Figure 7-2)	1
4	~~1391400~~		
	4085579	Steering Axle (Frame)	1
5	82270	Eyebolt	4
6	292527	Capscrew	4
7	320161	Washer	16
8	1385595	Pin	2
9	13963	Grease Fitting	8
10	1385596	Pin	2
11	1385599	Tie Rod Assembly	2
11	1385594	Tie Rod	1
12	192683	Bushing	4
13	1601922	Spindle (RH)	1
14	1601921	Spindle (LH)	1
15	79483	Bearing Cup (Tapered Roller) (5.38 in.)	2
16	1381932	Bearing Cone (Tapered Roller) (2.81 in.)	2
17	1373687	Seal (Grease)	4
18	1373689	Wear Sleeve	2
19	1601923	Wheel Hub Assembly	2
19	1684549	Wheel Hub	1
20	1373675	Wheel Stud	12
21	159179	Bearing Cup (Tapered Roller) (4.81 in.)	1
22	230389	Bearing Cup	1
23	136985	Capscrew	6
24	~~388049~~		
	292682	Lockwasher	6
25	90937	O-Ring	2
26	1325646	Plate	2
27	1554047	Nut	2
28	1554048	Washer	2
29	339490	Bearing Cone	2
30	230390	Bearing Cone	2
31	37103	Seal	2
32	1603975	Bushing	2
33	1385576	Seal	8
34	159180	Bearing Cone (Tapered Roller) (2.5 in.)	2
35	1373688	Dust Seal (Dust)	2
36	1385598	Bearing Cap Assembly	2
36	1385597	Bearing Cap	1
37	1373689	Wear Sleeve	1
38	159179	Bearing Cup (Tapered Roller) (4.81 in.)	1
39	274044	Capscrew	8
40	95033	Shim (0.005 in.)	AR
40	95034	Shim (0.020 in.)	AR
40	95166	Shim (0.007 in.)	AR
41	246001	Capscrew	12
42	1335867	Thrust Washer	2
43	1381940	Seal	2
44	159185	Shim	AR

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STEER AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
44	159186	Shim	AR
44	1674006	Shim	AR
45	1335871	Bushing	2
46	1383854	Plate	1
47	320159	Washer	2
48	287854	Capscrew	2

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NOTES

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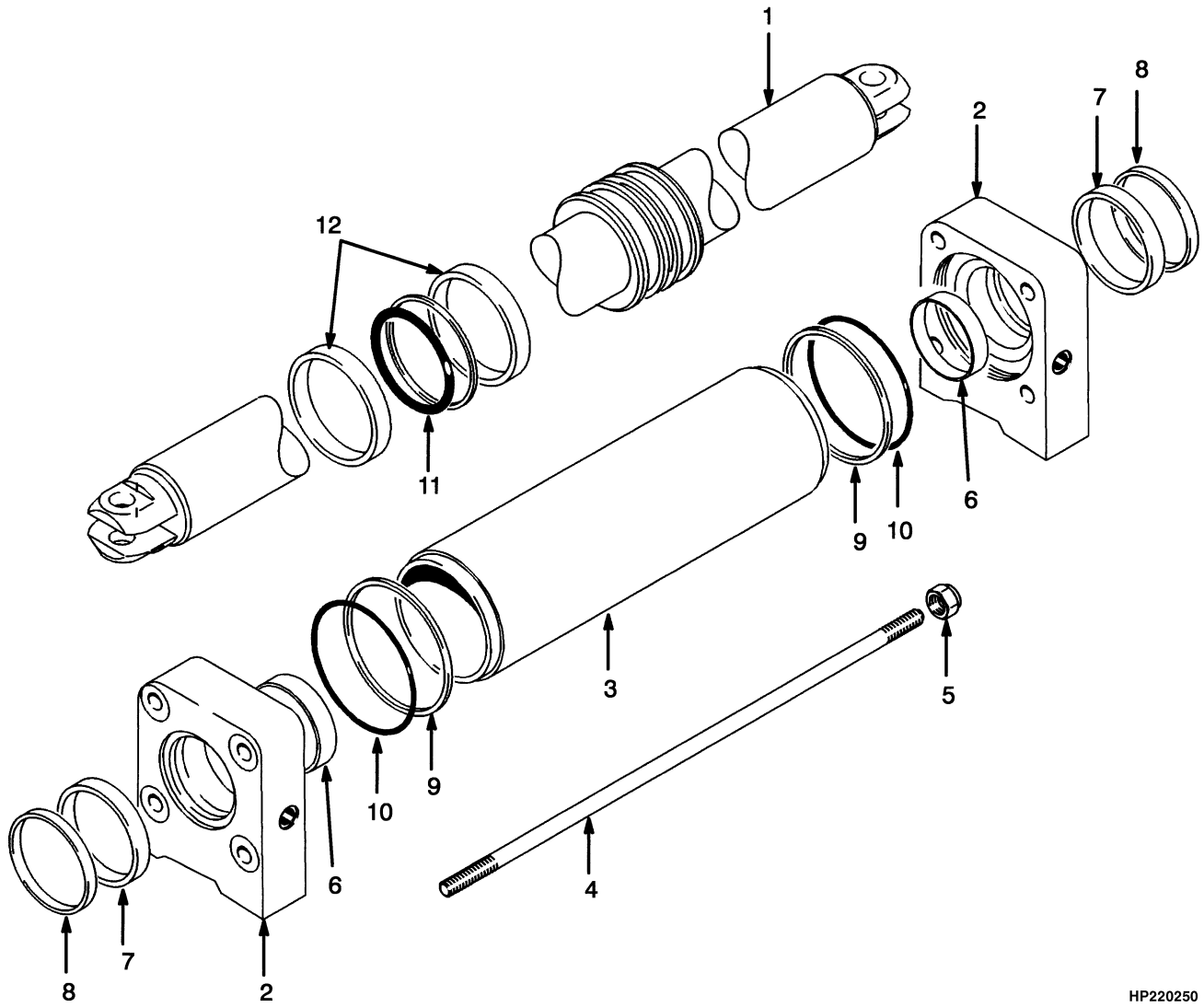
STEER CYLINDER (FIGURE 7-2)



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STEER CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	1393742	Steering Cylinder	1
1	1453850	Rod Assy	1
2	. . . . .	End Cap	2
3	1453851	Tube Wldmt-Cylinder	1
4	1453852	Tie Rod	1
5	316829	Nut	8
6	1453849	Bearing	2
7	1385582	Rod Seal	2
8	1391407	Rod Wiper	2
9	1385583	Back-Up Ring	2
10	15894	O-Ring	2
11	1385587	Seal	1
12	1385586	Wear Ring	2
	1391406	Kit-Seal	1

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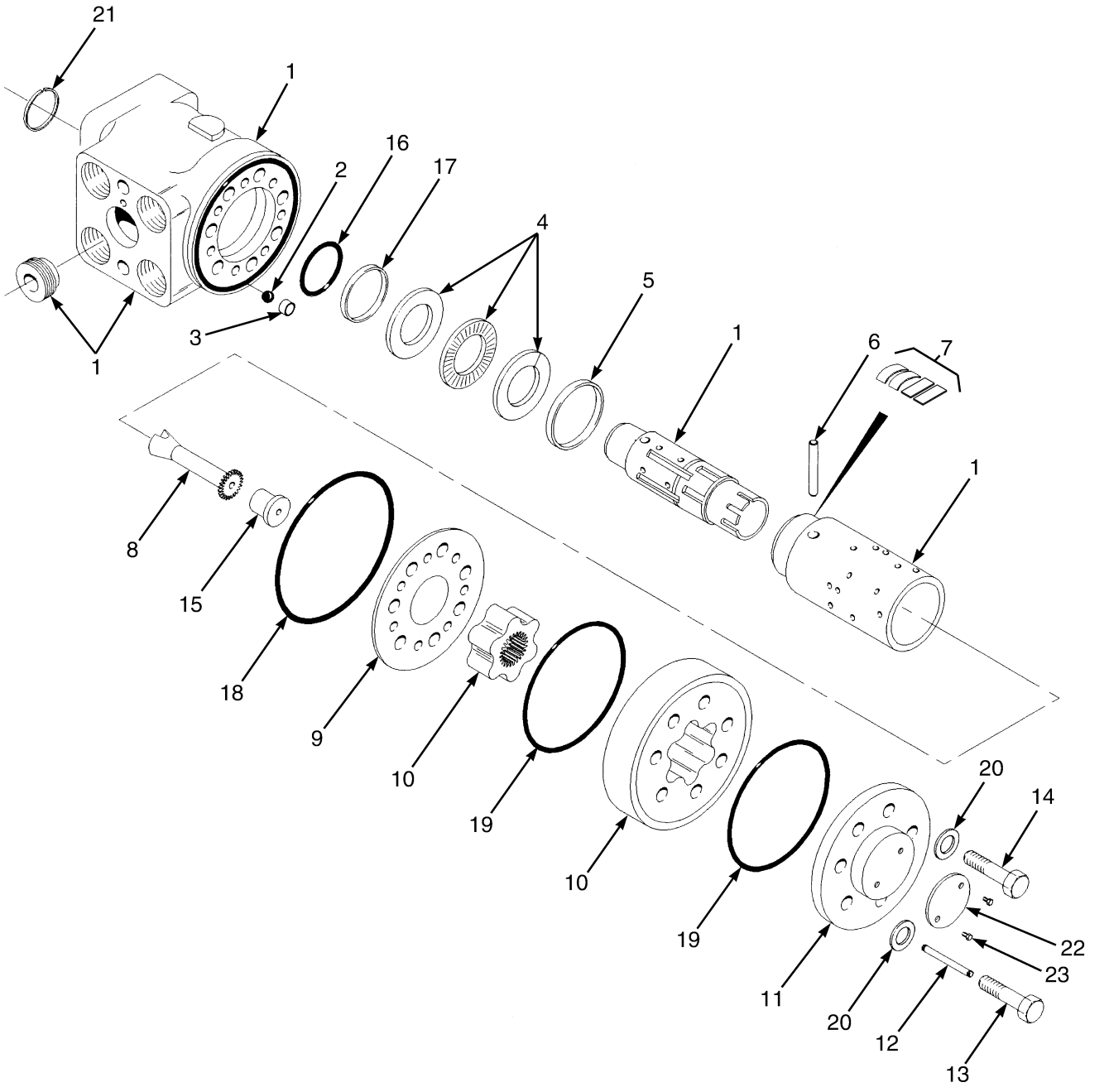
STEER PUMP ASSEMBLY (FIGURE 7-3)



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STEER PUMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1372990	Steering Pump Assembly	1
1	. . . . .	Housing	1
2	345408	Ball	1
3	345409	Bushing	1
4	345410	Bearing Set	1
5	345411	Ring	1
6	345412	Pin	1
7	1375018	Kit-Spring	1
8	1355326	Shaft	1
9	1357026	Plate	1
10	1382558	Gear Set	1
11	345424	End Cover	1
12	. . . . .	Pin	1
13	1382559	Screw	1
14	1382560	Screw	6
15	1315781	Spacer	1
16	. . . . .	O-Ring	1
17	. . . . .	Ring	1
18	. . . . .	O-Ring	1
19	. . . . .	O-Ring	2
20	. . . . .	Washer	7
21	. . . . .	Ring	1
22	. . . . .	Nameplate	1
23	. . . . .	Screw	2
	a 371345	Screw	2
	a 1375021	Relief Valve	1
	a 1382561	Spring	1
	2032229	Kit-Seal	1

FOOTNOTES:

a Not Illustrated

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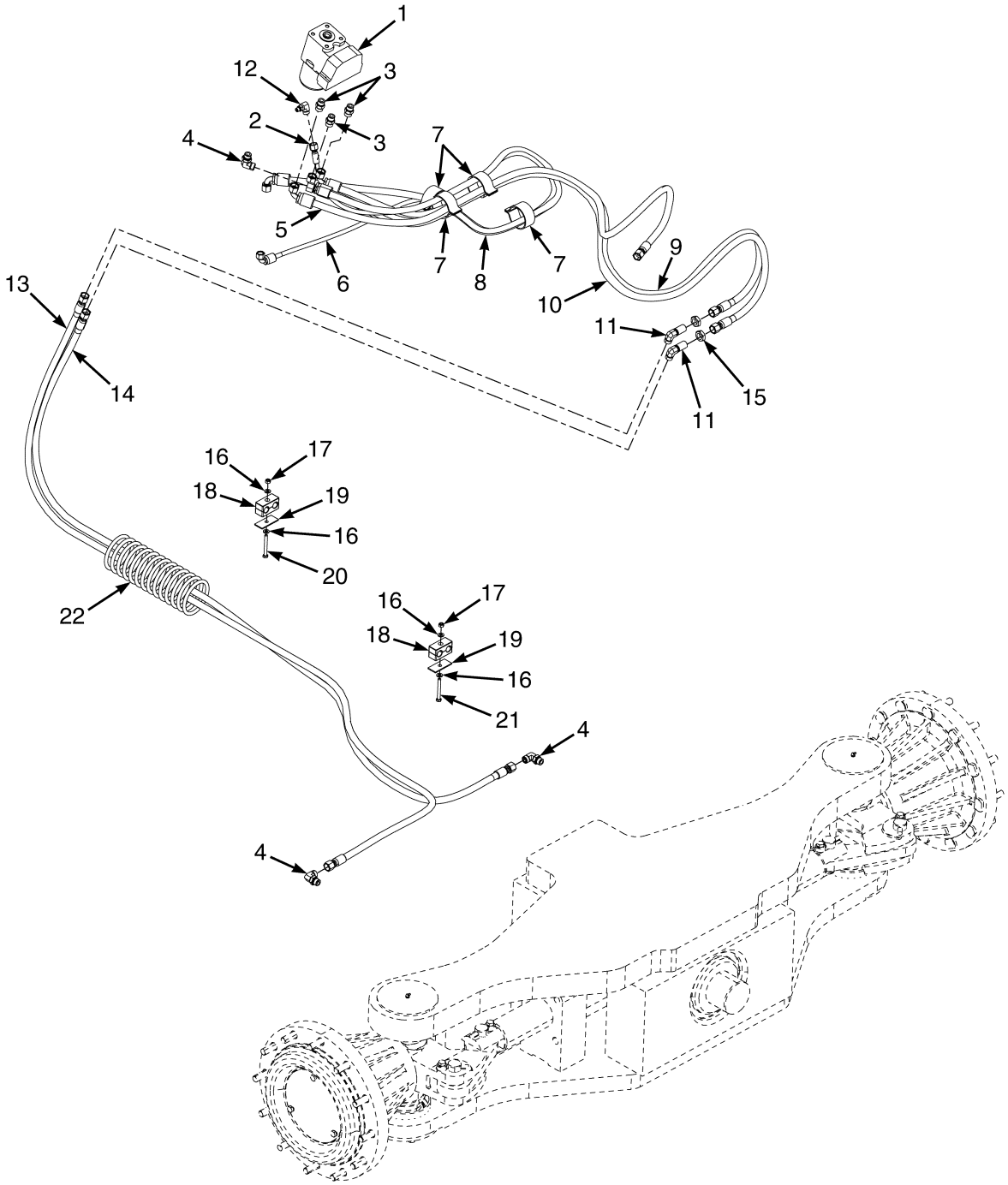
STEERING HOSES AND ATTACHING PARTS (FIGURE 7-4)



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STEERING HOSES AND ATTACHING PARTS

KEY:
A: H400HDS, H450HDS
B: H400HD, H450HD

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1524215	Steering Valve Assembly	1	1
1	1372990	Steering Pump Assembly (☞Figure 7-3)	1	1
1	1524173	Valve Block	1	1
1	366066	Kit-Repair Valve	1	1
2	1486737	Fitting	1	1
2	16481	O-Ring	1	1
2	~~1495111~~			
	1527813	O-Ring	1	1
3	~~6996681~~			
	1473887	Fitting	3	3
3	16484	O-Ring	1	1
3	1527817	O-Ring	1	1
4	1473897	Fitting	3	3
4	16484	O-Ring	1	1
4	~~1495113~~			
	265731	O-Ring	1	1
5	1637619	Hose Assy	1	1
6	1709694	Hose Assy	1	1
7	1557756	Strap (Static)	7	7
8	1611013	Hose Assy	1	1
9	1635497	Hose Assy	1	1
10	1635498	Hose Assy	1	1
11	1528580	Fitting	2	2
11	~~1495113~~			
	265731	O-Ring	2	2
12	~~6996697~~			
	1486770	Fitting	1	1
12	~~1495111~~			
	1527813	O-Ring	2	2
13	1611870	Hose Assy	1	..
13	1635499	Hose Assy	..	1
14	1611871	Hose Assy	1	..
14	1635500	Hose Assy	..	1
15	~~6996709~~			
	816593	Locknut , Bulkhead	1	1
16	302400	Nut	2	2
17	320157	Washer	5	5
18	1533664	Clamp (Twin)	3	3
19	1533649	Cover Plate	3	3
20	136703	Capscrew	2	2
21	292509	Capscrew	1	1
22	316596	Sleeve (Coil)	1	1

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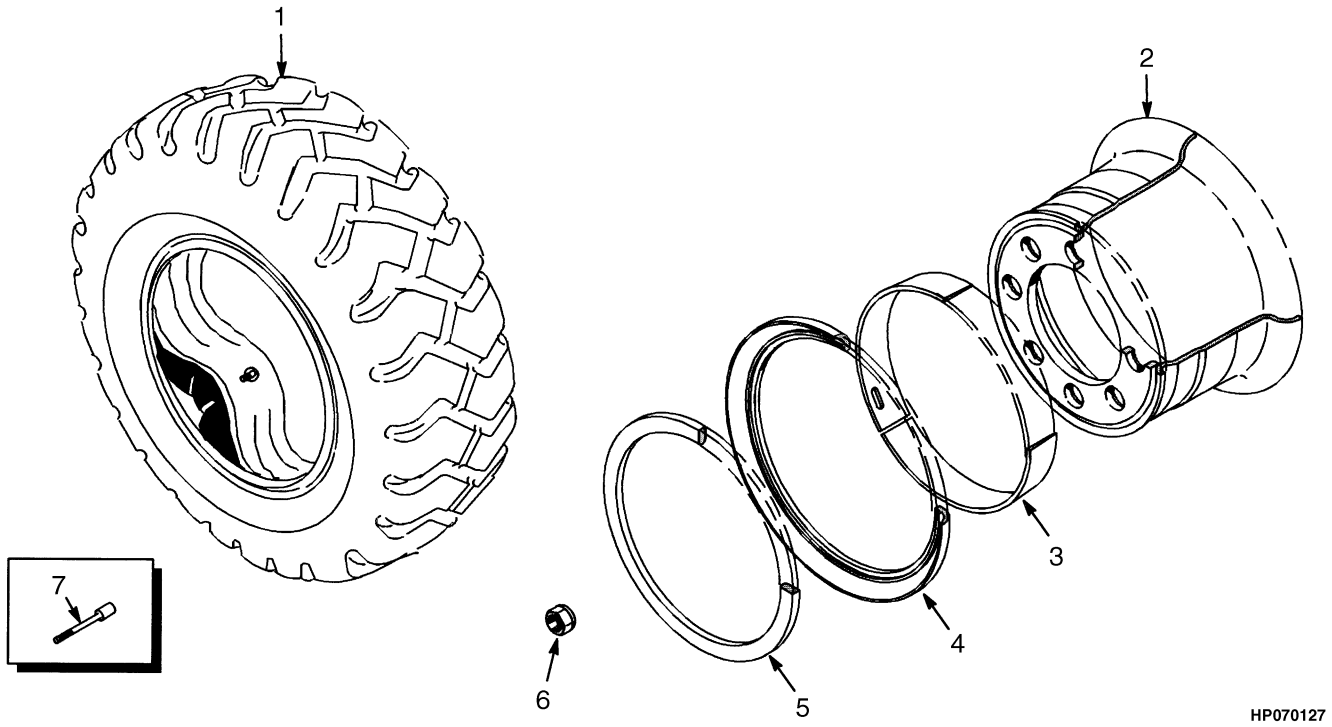
STEER TIRE AND WHEEL (FIGURE 7-5)

MICHELIN



KEY:
A: 12.00 x 24
B: 14.00 x 24

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1460448	Pneumatic Tire	2	..
1	1460451	Pneumatic Tire (Tubed 14.00 x 24 Radial)	..	2
1	1460398	Pneumatic Tire	1	..
1	1460405	Tube	1	..
1	1460402	Pneumatic Tire (Radial 14.00 x 24)	..	1
1	1460406	Tube	..	1
2	1385577	Wheel Assy	..	4
2	1614372	Wheel Assy	4	..
3	1466004	Ring (Side)	..	1
3	1538311	Ring	1	..
4	1452916	Ring (Conical)	1	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	24	24
7	~~1303417~~			
	49189	Extension (Valve Stem)	2	2

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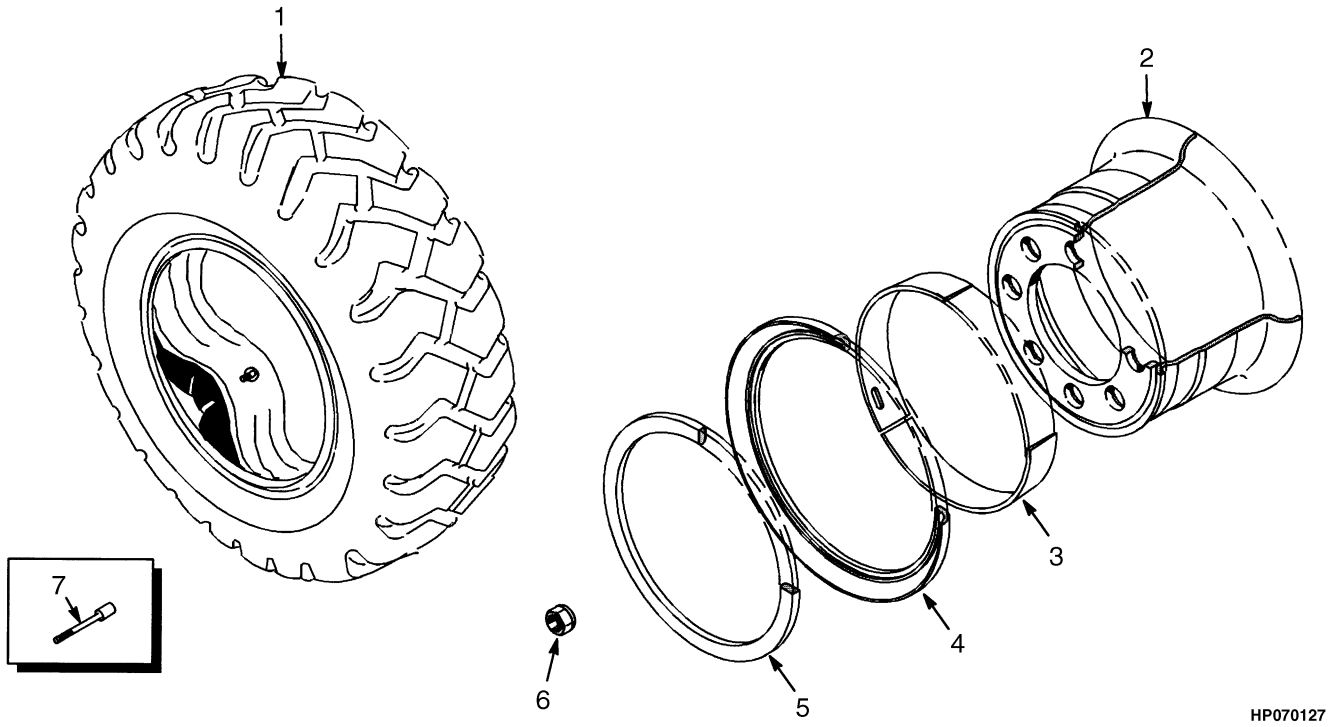
STEER TIRE AND WHEEL (FIGURE 7-6)
TRELLEBORG

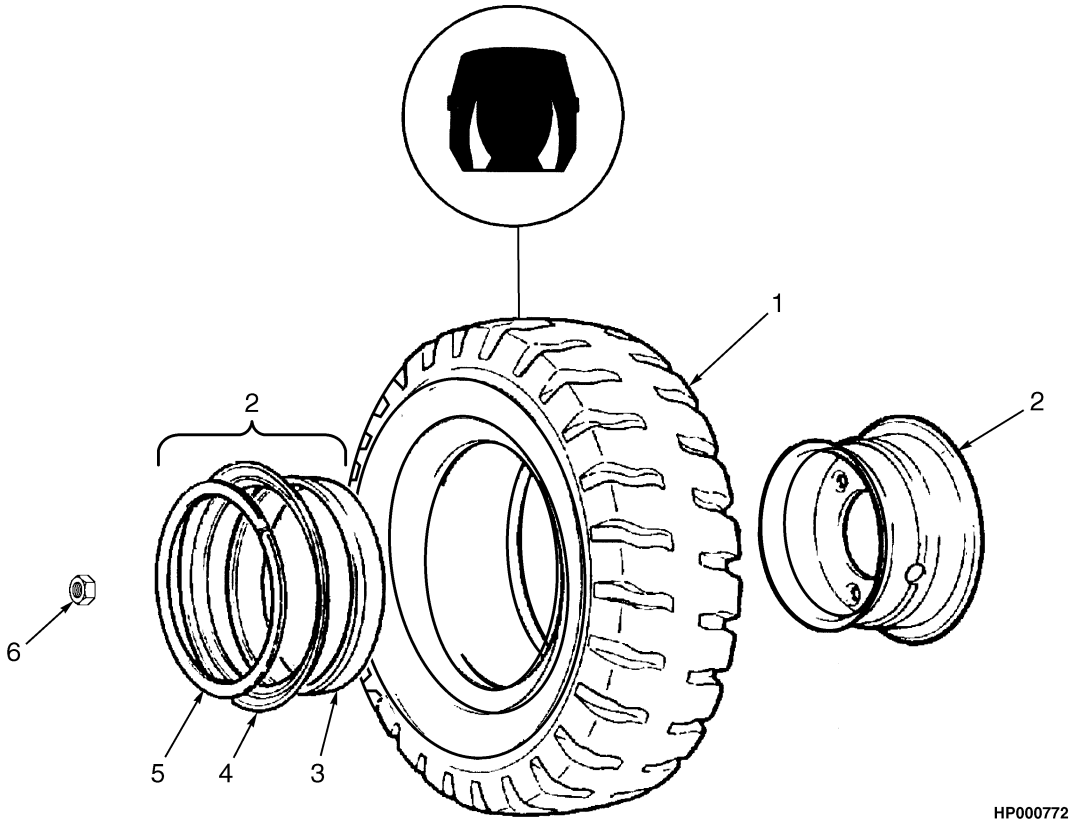


KEY:
A: 12 x 24 - 20
B: 14 x 24 - 24

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1594933	Pneumatic Tire	1	..
1	1594934	Pneumatic Tire (Tubed 14.00 x 24 - 24 Bias)	..	1
1	1595479	Pneumatic Tire	1	..
1	1595480	Pneumatic Tire	..	1
1	1382383	Pneumatic Tire	1	..
1	1485936	Tube	..	1
2	1614372	Wheel Assy	1	..
2	1385577	Wheel Assy	..	1
3	1452916	Ring (Conical)	1	1
4	1538311	Ring	1	..
4	1466004	Ring (Side)	..	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	24	24
7	~~1303417~~			
	49189	Extension (Valve Stem)	2	2

STEER TIRE AND WHEEL (FIGURE 7-7)

TRELLEBORG — SOLID TIRE



KEY:
A: 14.00 x 24 x 10
B: 12.00 x 24 x 10

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	~~1393797~~			
	1668701	Tire (Solid Pneumatic, With Tread 14.00 - 24)	4	..
1	1393796	Solid Pneumatic Tire	..	4
2	1385577	Wheel Assy	4	..
2	1385579	Wheel Assy	..	4
3	1466004	Ring (Side)	1	1
4	1452916	Ring (Conical)	1	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	48	48

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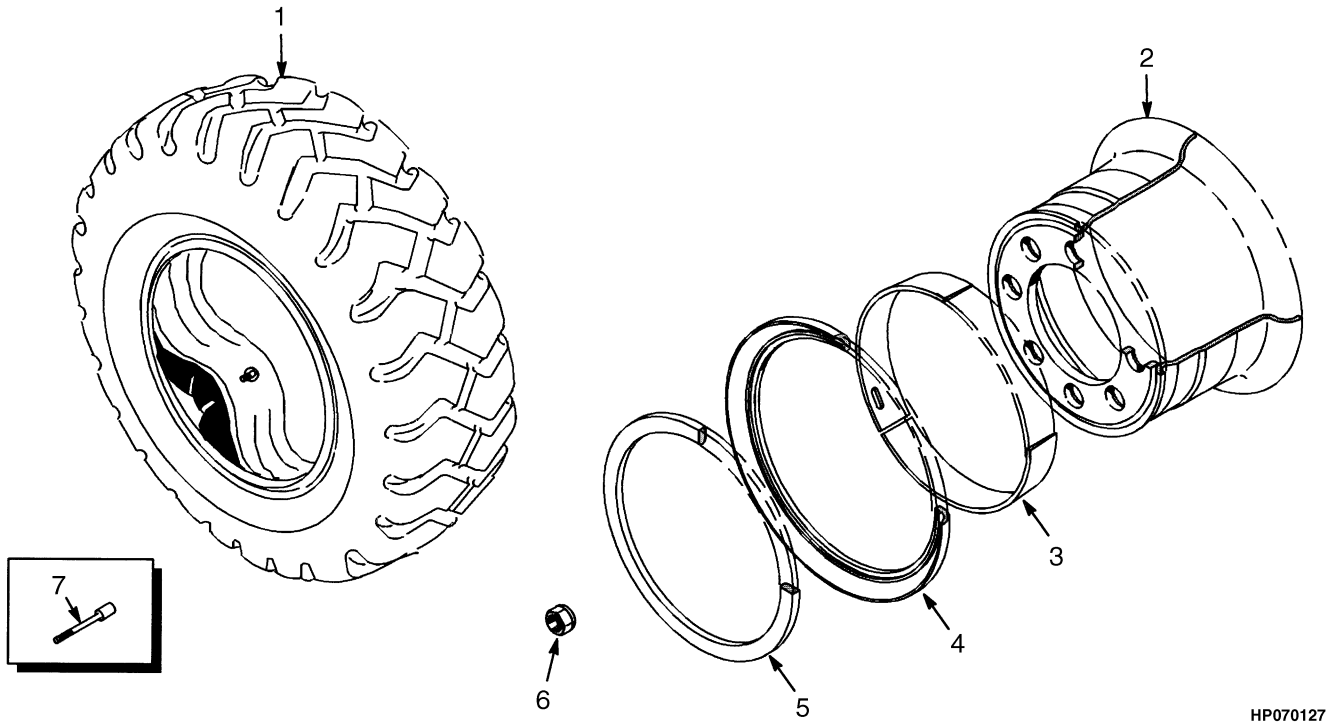
STEER TIRE AND WHEEL (FIGURE 7-8)
TRELLEBORG TR900



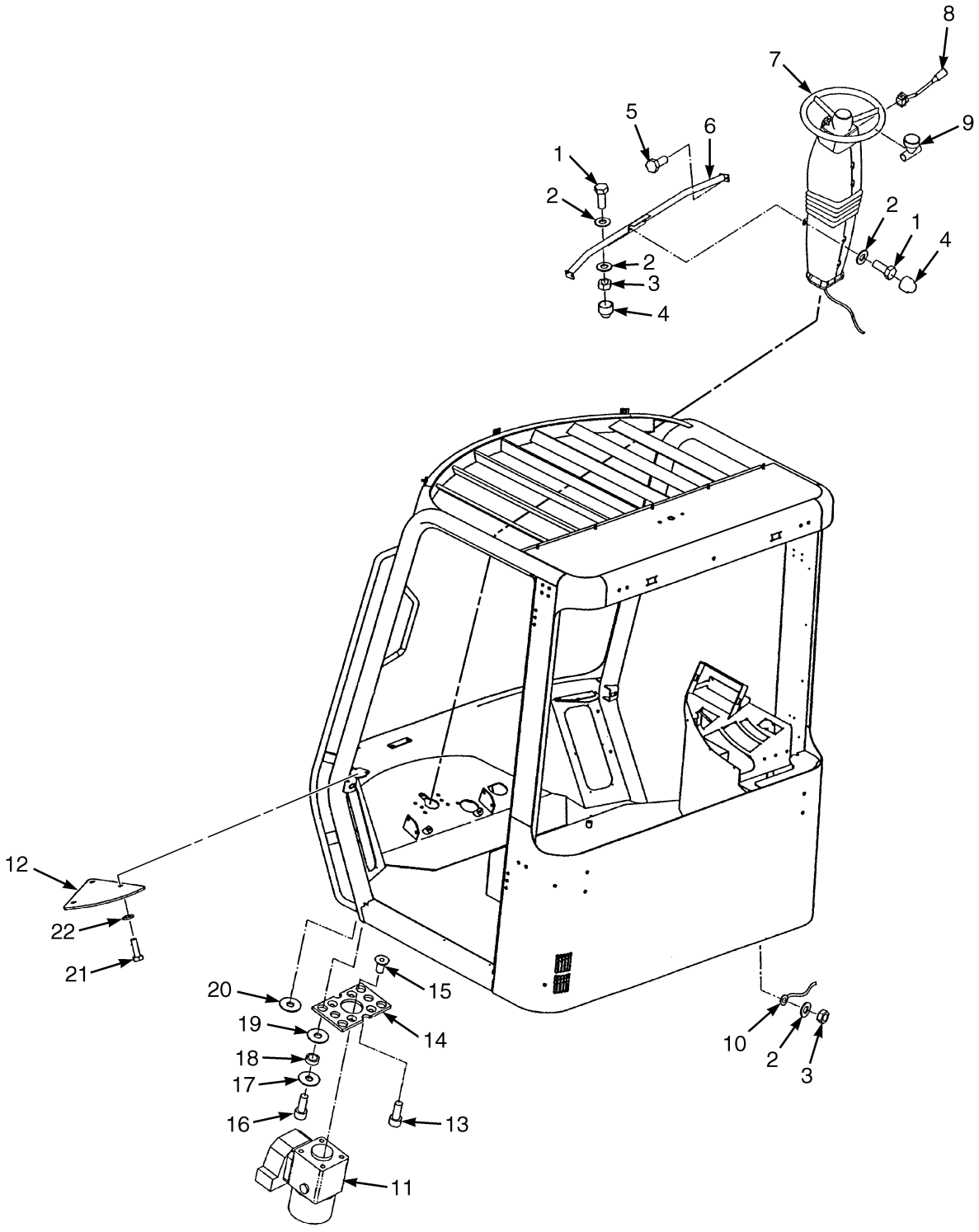
KEY:
A: 12 x 24
B: 14 x 24

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	4085093	Pneumatic Tire	2	..
1	4039776	Pneumatic Tire (Tubed 14.00 x 24 Radial)	..	2
1	1485936	Tube	1	1
2	1614372	Wheel Assy	1	..
2	1385577	Wheel Assy	..	1
2	4005709	Wheel Assy	..	..
3	1452916	Ring (Conical)	1	1
4	1538311	Ring	1	..
4	1466004	Ring (Side)	..	1
5	~~1637809~~			
	1538310	Wheel Lock Ring	1	1
6	376026	Wheel Nut	24	24
7	116265	Valve Stem Extension	2	2
	a 1690843	Wheel Side Ring (Nut Protection)	2	2

FOOTNOTES:

a Not Illustrated

STEER COLUMN AND ATTACHING PARTS (FIGURE 7-9)



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STEER COLUMN AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	136681	Capscrew	4
2	320158	Washer	7
3	239503	Nut	3
4	1476584	Cover (Capscrew Head)	4
5	1566041	Screw	2
6	1492237	Support (Column)	1
7	1492260	Steering Column Assembly (☞Figure 7-10)	1
8	1514033	Switch (Turn Signal)	1
8	2003859	Flasher	1
8	1566411	Screw	2
9	~~4011373~~		
	1700342	Wheelspinner	1
10	1492214	Wire (Ground)	1
11	1524215	Steering Valve Assembly	1
12	1492236	Plate (Front Duct)	2
13	296025	Capscrew	2
14	1477228	Plate (Steer Pump)	1
15	16080	Capscrew	4
16	296012	Capscrew	4
17	1300117	Washer	4
18	376505	Spacer	4
19	216735	Grommet	4
20	339969	Grommet	1
21	292501	Capscrew	6
22	1468321	Washer (Plastic)	6

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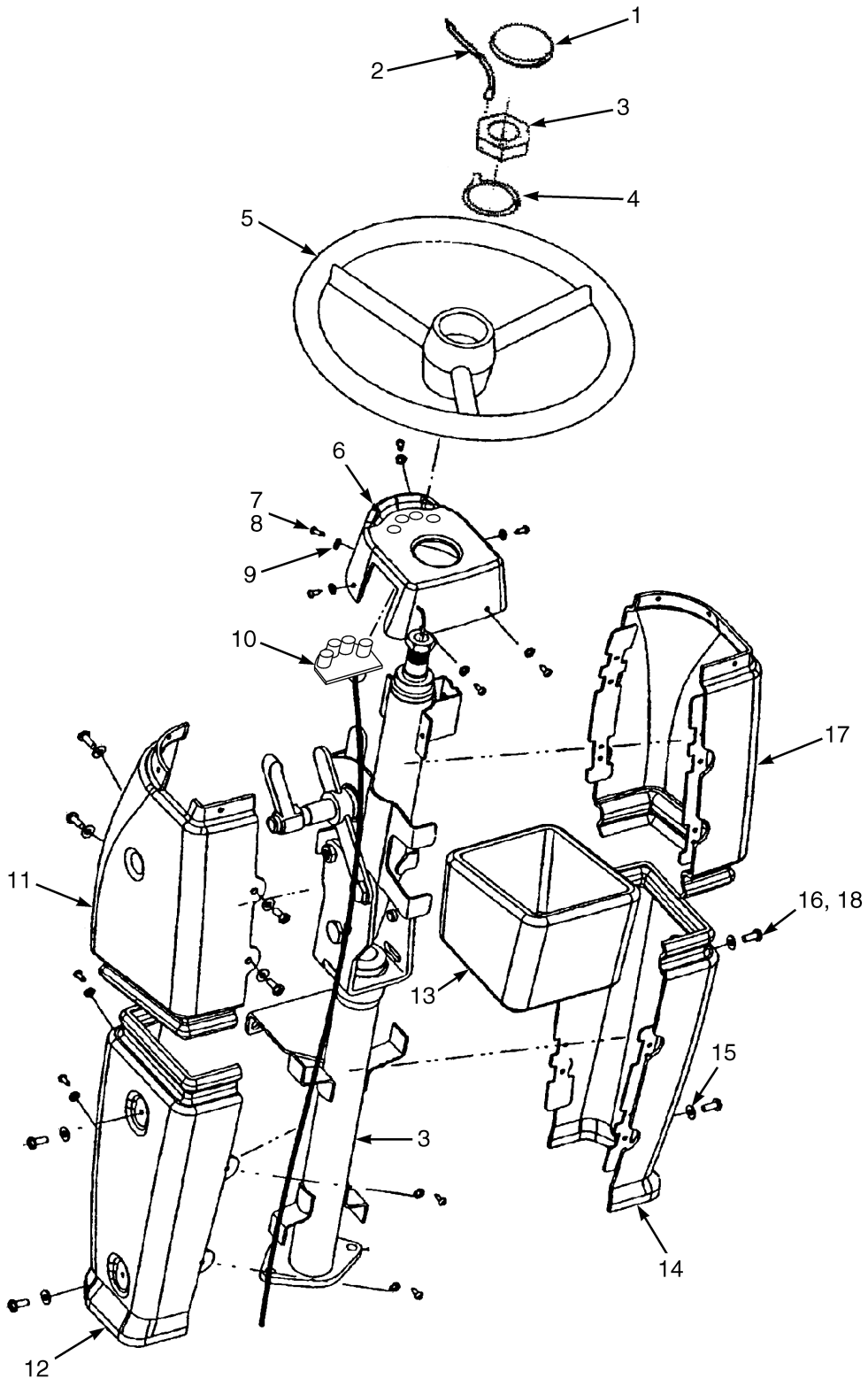
STEER COLUMN ASSEMBLY (FIGURE 7-10)



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STEER COLUMN ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1492260	Steering Column Assembly	1
1	1608622	Horn Button	1
2	1387159	Wire (Horn Button)	1
3	2043287	Steering Column (☞Figure 7-12)	1
4	347126	Terminal	1
5	1700341	Steering Wheel	1
6	1520541	Cover (Upper)	1
7	1468319	Screw	6
8	1492139	Nut	6
9	1647654	Washer	6
10	1520542	Warning Light (With Circuit Board)	1
11	1489845	Cover (Upper LH)	1
12	1489847	Cover (Lower LH)	1
13	1492252	Cover (Boot)	1
14	1489848	Cover (Lower RH)	1
15	1468321	Washer (Plastic)	12
16	302048	Screw	12
17	1489846	Cover (Upper RH)	1
18	1647655	Nut	4

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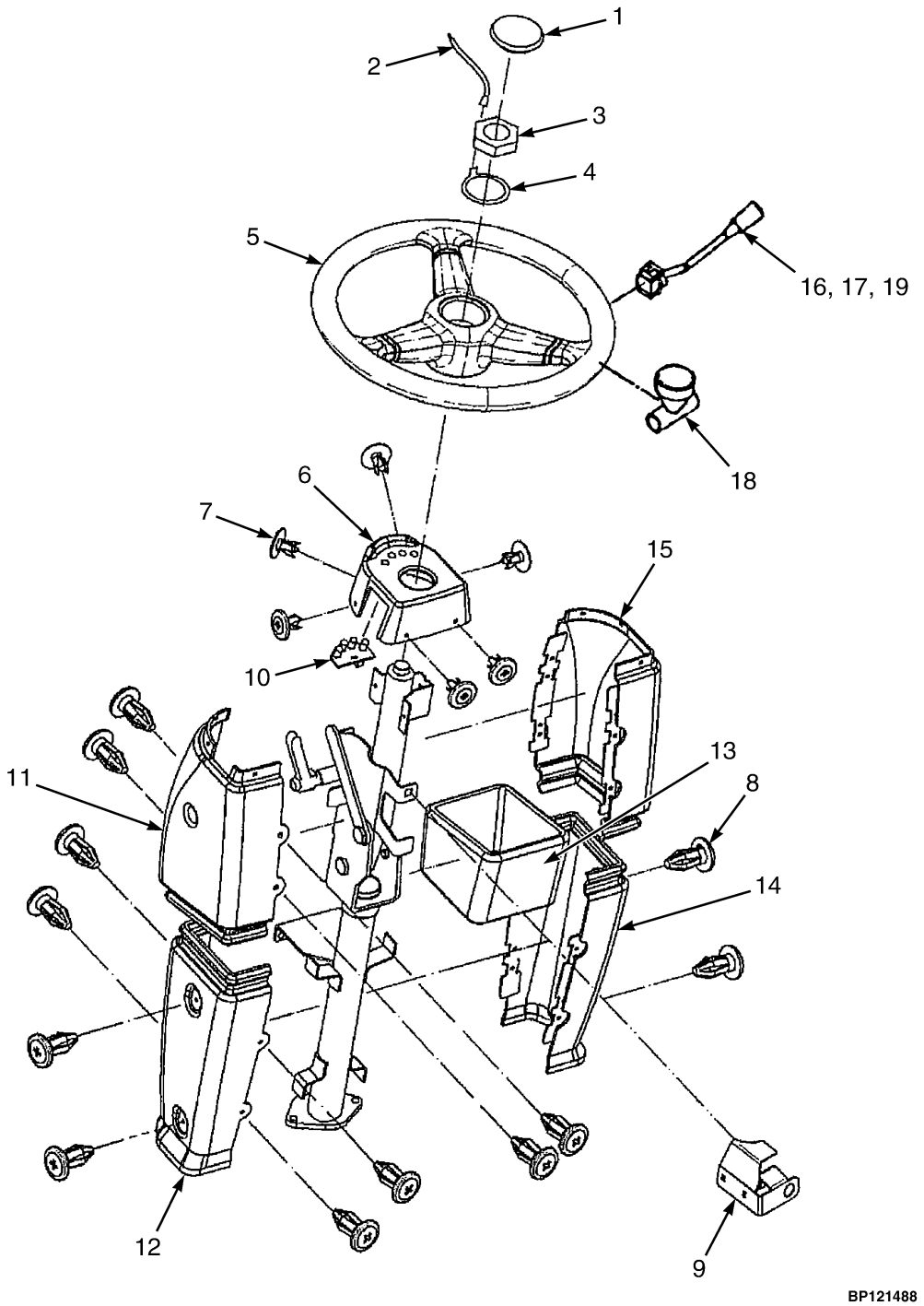
STEER COLUMN ASSEMBLY (FIGURE 7-11)
ALTERNATE CONFIGURATION



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STEER COLUMN ASSEMBLY
ALTERNATE CONFIGURATION

ITEM	PART NO.	DESCRIPTION	QTY
	1492260	Steering Column Assembly	1
1	1608622	Horn Button	1
2	1387159	Wire (Horn Button)	1
3	2043287	Steering Column (☞Figure 7-12)	1
4	347126	Terminal	1
5	1700341	Steering Wheel	1
6	1520541	Cover (Upper)	1
7	4136128	Rivet	6
8	4136129	Rivet	12
9	4136130	Plate	1
10	1520542	Warning Light (With Circuit Board)	1
11	1489845	Cover (Upper LH)	1
12	1489847	Cover (Lower LH)	1
13	1492252	Cover (Boot)	1
14	1489848	Cover (Lower RH)	1
15	1489846	Cover (Upper RH)	1
16	1514033	Switch (Turn Signal)	1
17	1566411	Screw (Turn Signal)	1
18	~~4011373~~		
	1700342	Wheelspinner	1
19	2003859	Flasher (Turn Signal)	1

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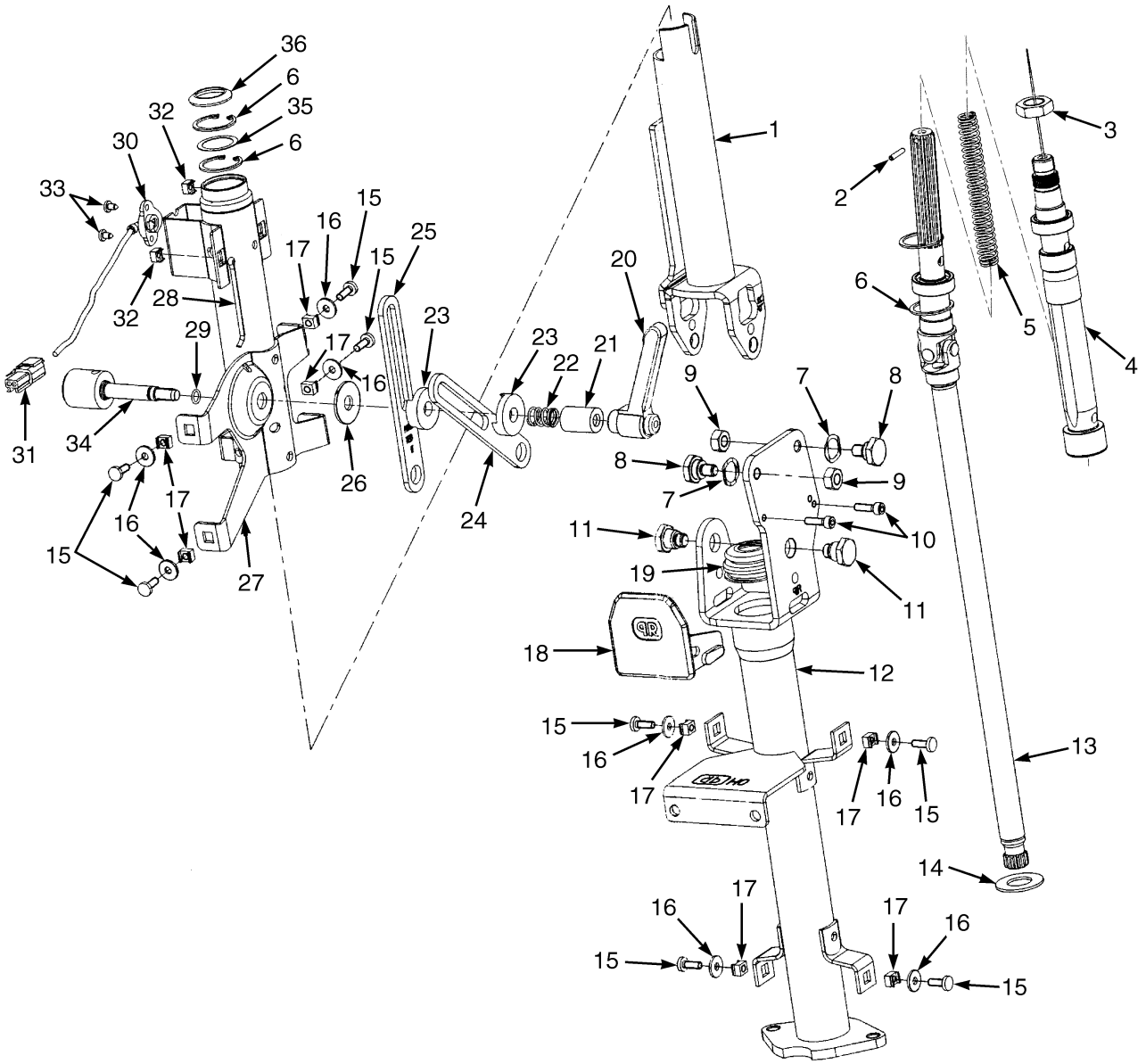
STEER COLUMN (FIGURE 7-12)



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STEER COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
	2043287	Steering Column	1
1	1487124	Pipe (Upper)	1
2	1479473	Pin	1
3	1388428	Nut	1
4	1487107	Shaft (Upper)	1
5	1487131	Spring	1
6	1388434	Snap Ring	4
7	1504861	O-Ring	2
8	1487111	Screw	2
9	1504862	Nut (Zinc Plated)	2
10	1487132	Screw	2
11	1487108	Screw	2
12	1487103	Pipe (Lower)	1
13	1487126	Shaft (Lower)	1
14	1504865	Support	1
15	1487123	Screw	8
16	1487121	Washer	8
17	1487110	Nut	8
18	1487133	Bracket	1
19	1487109	Boot	1
20	1388438	Handle	1
21	1487114	Spacer	1
22	1487130	Spring	1
23	1487112	Nut (Stop)	2
24	1487105	Lever (Back)	1
25	1487106	Lever (Front)	1
26	1487115	Washer	1
27	1487104	Support	1
28	1487120	Cotter Pin	1
29	1504867	Ring	1
30	1504863	Horn Contact (Includes Horn Relay)	1
31	1504868	Connector (Connects to Horn Button)	1
32	1504866	Nut	2
33	1487129	Screw	2
34	1504864	Regulator (Tilt)	1
35	1388435	Ring	1
36	1388436	Boot	1

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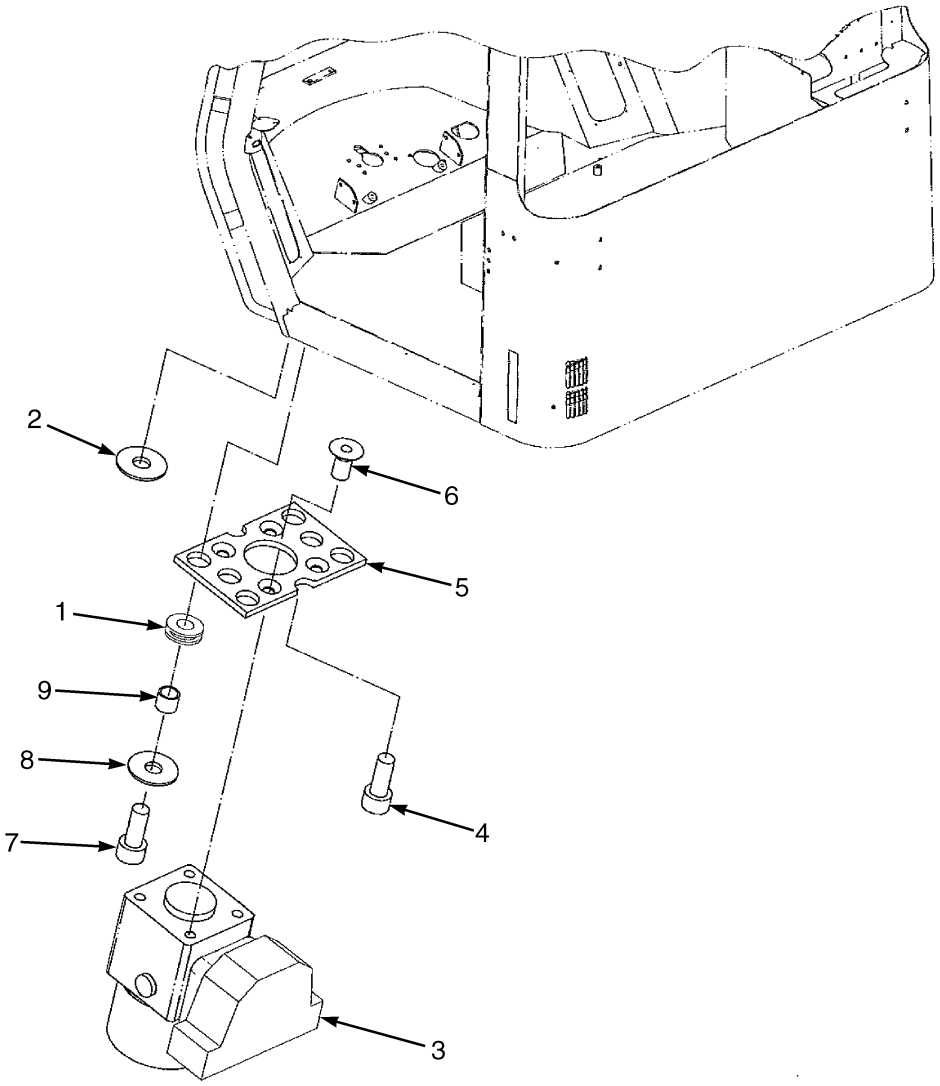
STEERING CONTROL UNIT ASSEMBLY (FIGURE 7-13)



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STEERING CONTROL UNIT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	216735	Grommet	4
2	339969	Grommet	1
3	1524215	Steering Valve Assembly	1
3	1372990	Steering Pump Assembly (☞Figure 7-3)	1
3	1524173	Valve Block	1
3	366066	Kit-Repair Valve	1
4	296025	Capscrew	2
5	1477228	Plate (Steer Pump)	1
6	16080	Capscrew	4
7	296012	Capscrew	4
8	1300117	Washer	4
9	376505	Spacer	4

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8 BRAKE SYSTEM

SECTION 8
BRAKE SYSTEM

DESCRIPTION	PAGE
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BRAKE SYSTEM	8-2
BRAKE VALVE AND ATTACHING PARTS	
DRY BRAKE	8-8
WET BRAKE	8-10
WET BRAKE - ALTERNATE CONFIGURATION	8-12

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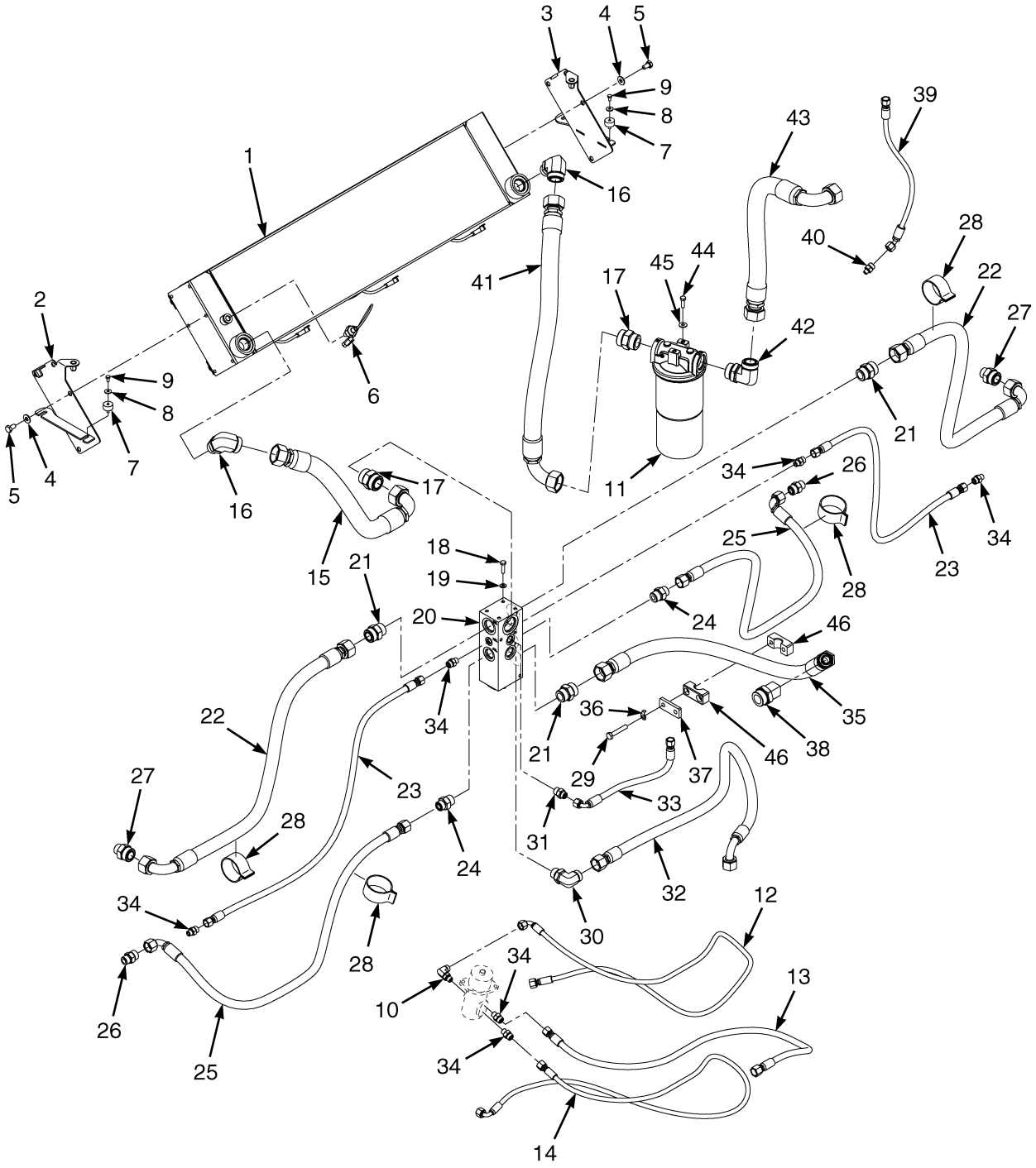
BRAKE SYSTEM (FIGURE 8-1)



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BRAKE SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	1655935	Oil Cooler Assembly	1
2	1655417	Bracket Wldmt (LH)	1
3	1655418	Bracket Wldmt (RH)	1
4	320160	Washer	8
5	292514	Capscrew	8
6	1675801	Switch (Temperature Oil Cooler)	1
7	1544934	Isolator	4
8	1476421	Washer	4
9	287817	Capscrew	4
10	1487063	Fitting	1
10	~~6992657~~		
	265787	O-Ring	1
10	16483	O-Ring	1
11	1656699	Filter	1
11	1659609	Filter Element	1
12	1637579	Hose Assy	1
13	1610822	Hose Assy	1
14	1637581	Hose Assy	1
15	1655573	Hose Assy	1
16	1473923	Fitting	2
16	1527821	O-Ring	1
16	16487	O-Ring	1
17	1473924	Fitting	2
17	1527821	O-Ring	1
17	16983	O-Ring	1
18	176640	Bolt	4
19	320157	Washer	4
20	1698756	Manifold	1
21	1473889	Fitting	3
21	244167	O-Ring	1
21	16487	O-Ring	1
22	1655574	Hose Assy	2
23	1610816	Hose Assy	2
24	~~6996684~~		
	1486751	Fitting	2
24	~~1495114~~		
	252729	O-Ring	1
24	~~1450764~~		
	16486	O-Ring	1
25	1610818	Hose Assy	2
26	1486749	Fitting	2
26	~~1495114~~		
	252729	O-Ring	1
26	16485	O-Ring	1
27	1660373	Fitting	2
28	1557756	Strap (Static)	4
29	292519	Capscrew	2
30	~~6996696~~		
	1473898	Fitting (UNF 90 Deg.)	1
30	~~1495115~~		
	280154	O-Ring	1

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BRAKE SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
30	~~1450764~~		
	16486	O-Ring	1
31	1486742	Fitting	1
31	~~6992657~~		
	265787	O-Ring	1
31	16483	O-Ring	1
32	1615645	Hose Assy	1
33	1637647	Hose Assy	1
34	1486740	Fitting	4
34	~~6992657~~		
	265787	O-Ring	1
34	16483	O-Ring	1
35	1545841	Hose Assy	1
36	1533662	Lockwasher	2
37	1560005	Cover Plate	1
38	1516213	Fitting	1
38	244167	O-Ring	1
38	16983	O-Ring	1
39	1605799	Hose Assy	1
40	1486741	Fitting	1
40	~~6992657~~		
	265787	O-Ring	1
40	16481	O-Ring	1
41	1655572	Hose Assy	1
42	1487078	Fitting	1
42	1527821	O-Ring	1
42	16983	O-Ring	1
43	1637740	Hose Assy	1
44	18497	Capscrew	2
45	320158	Washer	2
46	1612403	Clamp	1

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NOTES

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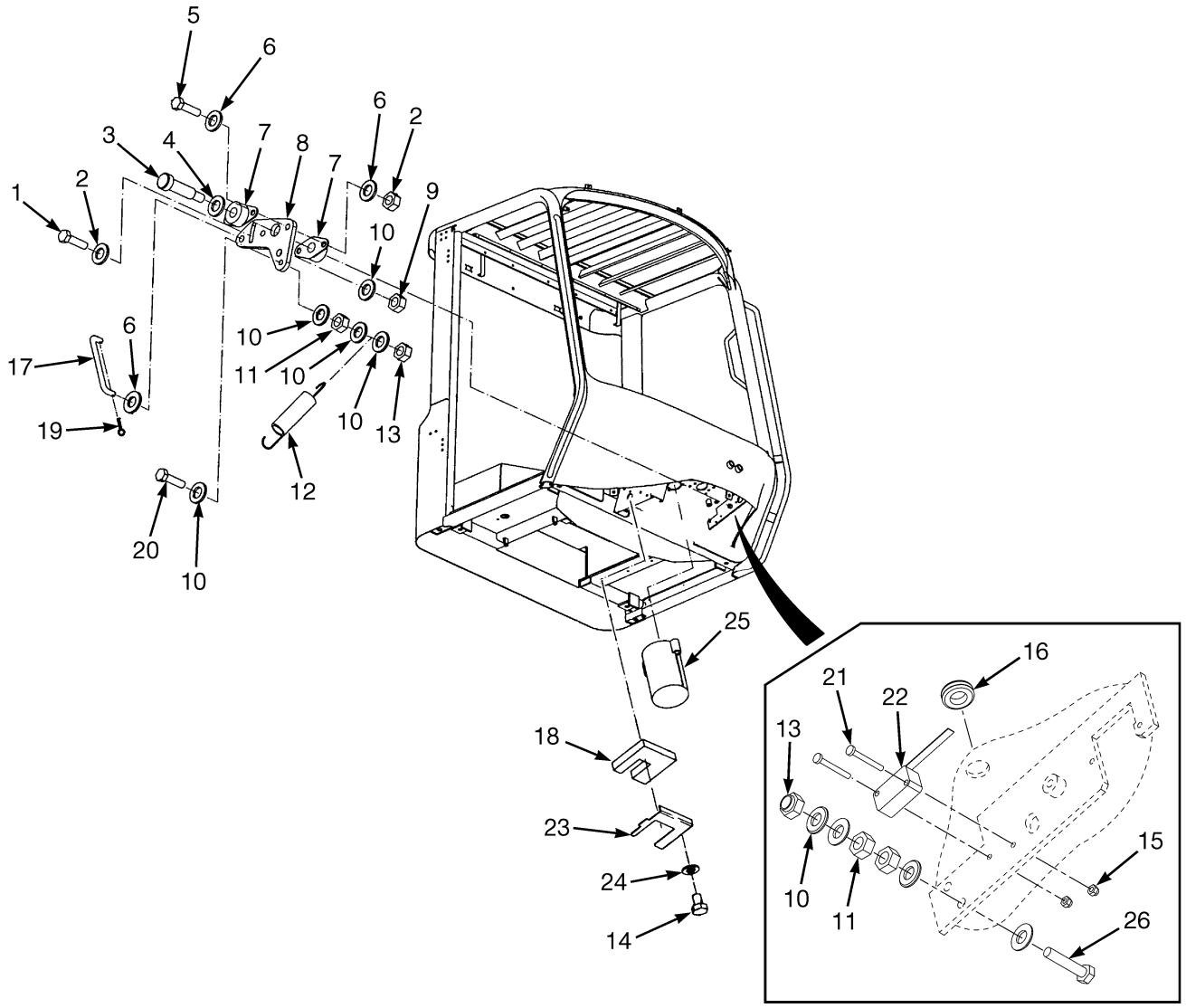
BRAKE PEDAL LINKAGE (FIGURE 8-2)



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BRAKE PEDAL LINKAGE

ITEM	PART NO.	DESCRIPTION	QTY
	4010861	Brake Pedal And Linkage	1
1	292502	Capscrew	1
2	316834	Nut	2
3	340213	Capscrew	1
4	1493386	Washer	1
5	292501	Capscrew	2
6	320156	Washer	6
7	313860	Flange	2
8	1571631	Plate	1
9	136687	Nut	2
10	320158	Washer	13
11	239503	Nut	1
12	4001209	Return Spring	1
13	316835	Nut	2
14	1623195	Capscrew	1
15	1492221	Nut	2
16	1558039	Grommet	1
17	1491020	Rod (Inching Pedal)	1
18	1623197	Foam	1
19	~~1492228~~		
	15201	Cotter Pin	2
20	1558040	Screw	1
21	302014	Screw	2
22	374159	Switch	1
23	1623196	Bracket	1
24	1506738	Washer	1
25	1487209	Brake Valve (Wet Brake) (☞Figure 8-4)	1
25	1678421	Valve (Dry Brake) (☞Figure 8-3)	1
25	1708446	Kit-Repair (Dry Brake)	1
25	1391744	Kit-Seal (Wet Brake)	1
25	1391745	Kit-Hardware (Wet Brake)	1
25	1450390	Kit-Shim (Wet Brake)	1
26	1558038	Screw	1

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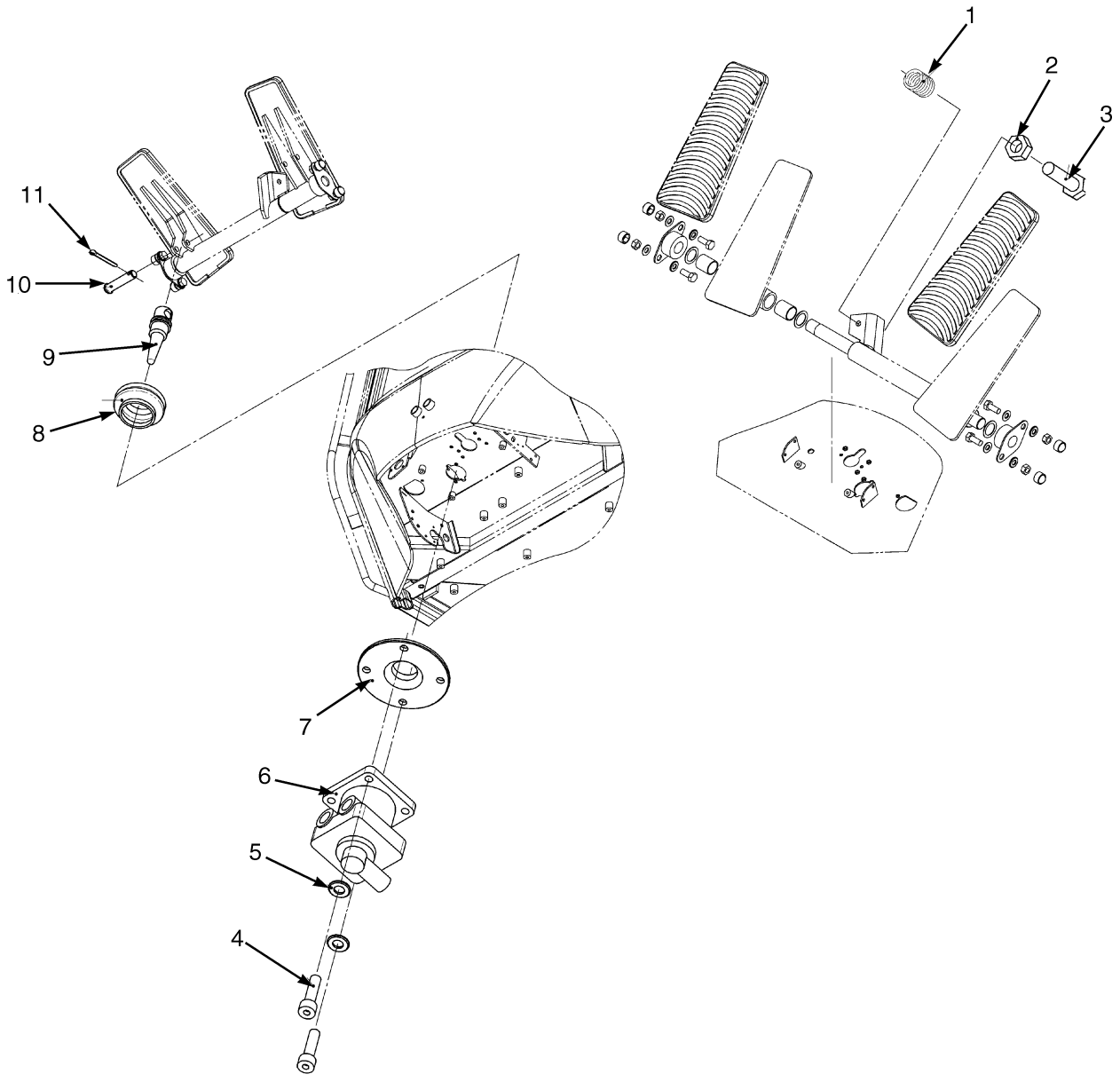
BRAKE VALVE AND ATTACHING PARTS (FIGURE 8-3)
DRY BRAKE



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BRAKE VALVE AND ATTACHING PARTS
DRY BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	4000982	Spring	1
2	136692	Nut	1
3	1706985	Screw	1
4	296012	Capscrew	2
5	320158	Washer	2
6	1678421	Valve (Dry Brake)	1
6	**a** 1708446	Kit-Repair	1
7	1671274	Plate	1
8	1671570	Dust Cover	1
9	1687880	Pin	1
10	327591	Pin	1
11	15212	Cotter Pin	1

FOOTNOTES:

a Repair Kit contains (11) items.

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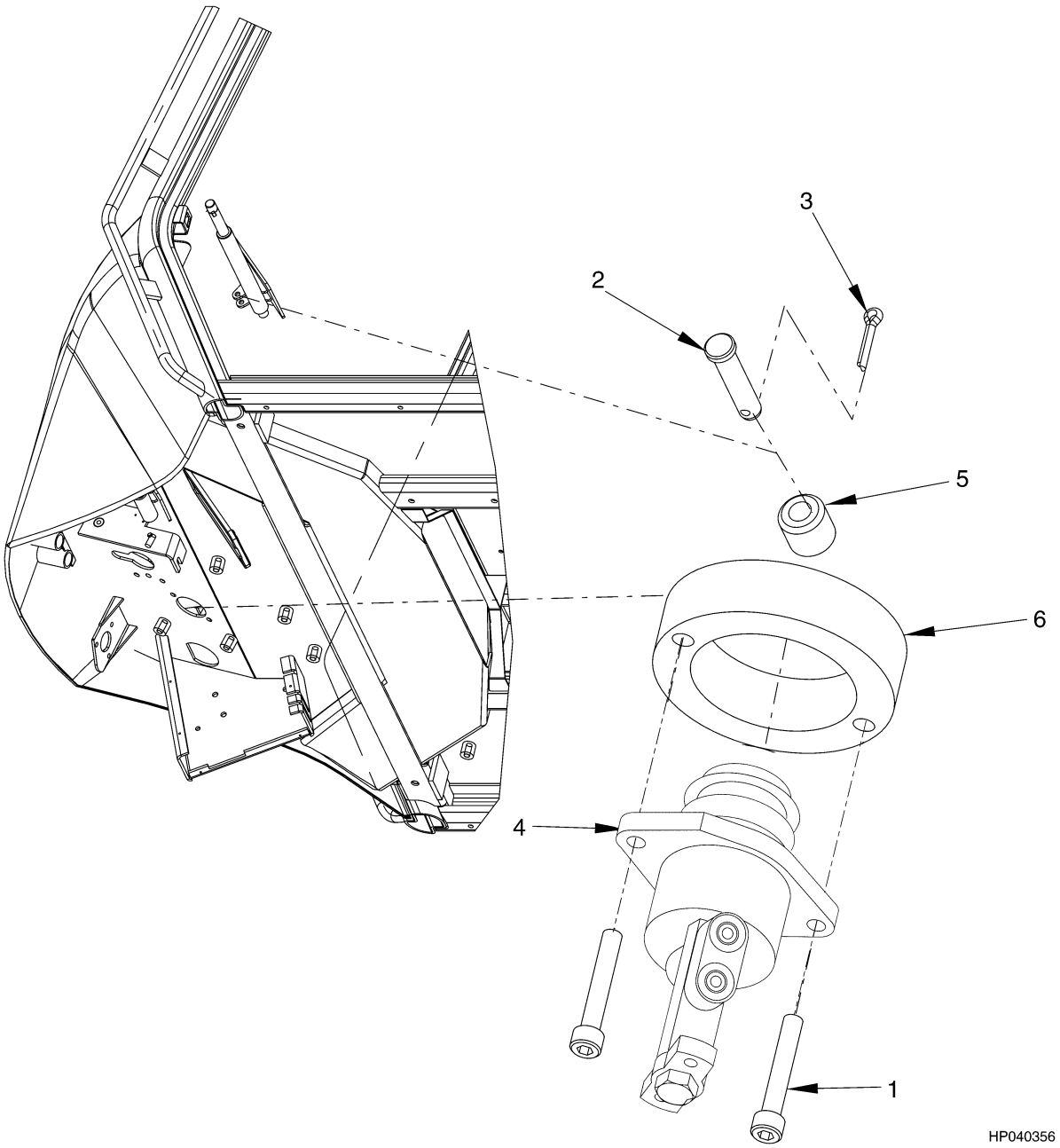
BRAKE VALVE AND ATTACHING PARTS (FIGURE 8-4)
WET BRAKE



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BRAKE VALVE AND ATTACHING PARTS
WET BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	296012	Capscrew	2
2	327591	Pin	1
3	15212	Cotter Pin	1
4	1487209	Brake Valve (Wet Brake)	1
4	1391744	Kit-Seal	1
4	1391745	Kit-Hardware	1
4	1450390	Kit-Shim	1
5	1480674	Roller	1
6	1487208	Spacer	1
	a 4000982	Spring (Inching)	1

FOOTNOTES:

a Not Illustrated

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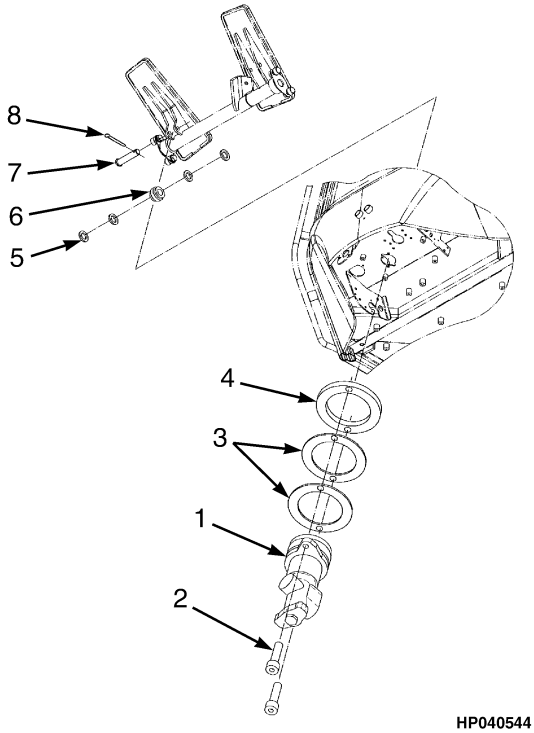
BRAKE VALVE AND ATTACHING PARTS (FIGURE 8-5)
WET BRAKE — ALTERNATE CONFIGURATION



ITEM	PART NO.	DESCRIPTION	QTY
1	1487209	Brake Valve (Wet Brake)	1
1	1391744	Kit-Seal	1
1	1391745	Kit-Hardware	1
1	1450390	Kit-Shim	1
2	296012	Capscrew	2
3	4119313	Spacer	2
4	4119312	Spacer	1
5	1468312	Washer	4
6	4009589	Bushing	1
7	327591	Pin	1
8	15212	Cotter Pin	1

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NOTES

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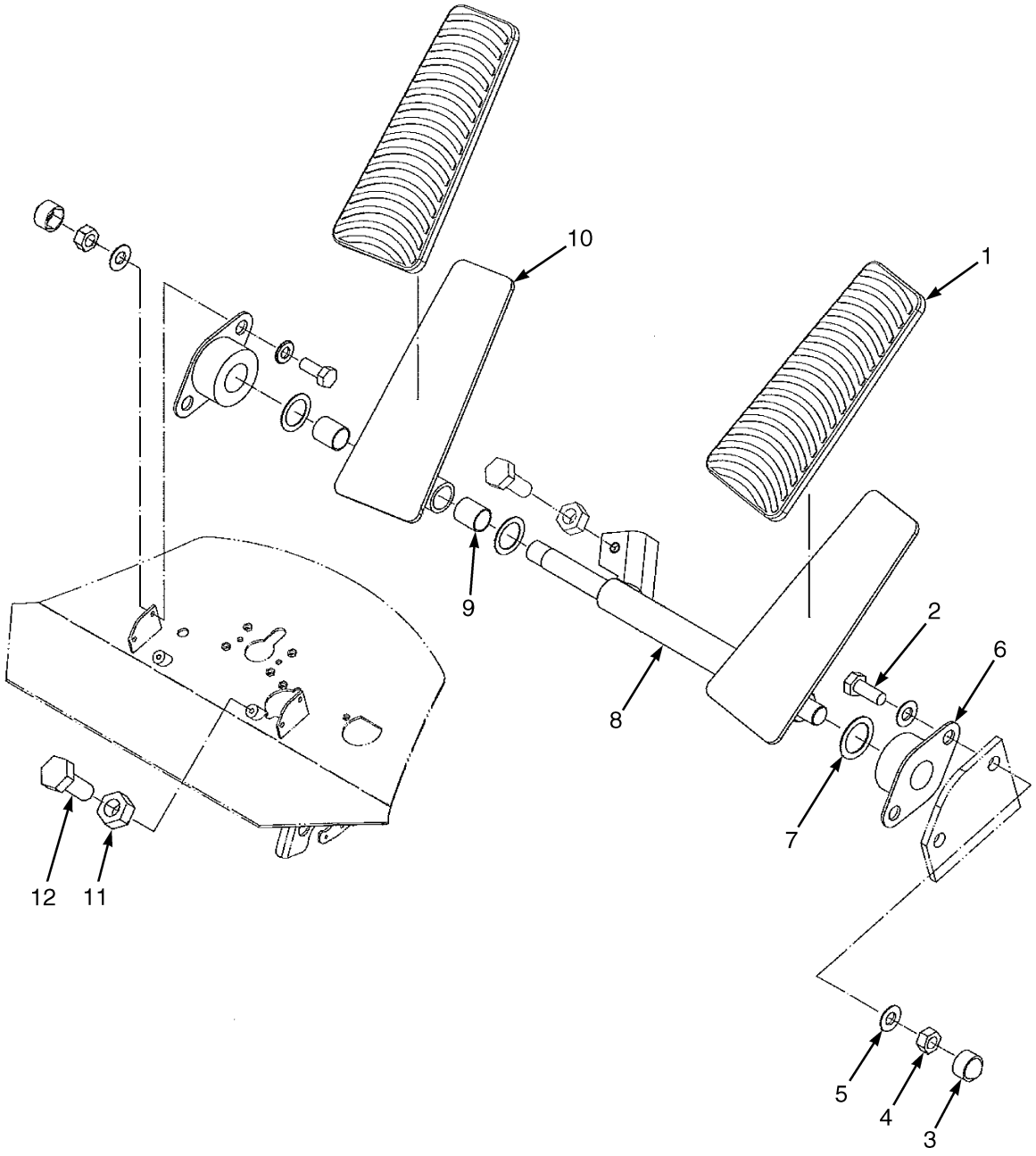
BRAKE PEDAL ASSEMBLY (FIGURE 8-6)



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BRAKE PEDAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4009591	Brake Pedal Assembly	1
1	~~1492218~~		
	1520596	Cover (Pedal)	2
2	287851	Capscrew	4
3	1476584	Cover (Capscrew Head)	4
4	239503	Nut	4
5	320158	Washer	8
6	1492225	Bearing	2
7	1520841	Shim	3
8	1491015	Shaft (Brake Pedal)	1
9	1493380	Bearing	2
10	1491016	Inching Pedal	1
11	136692	Nut	2
12	287854	Capscrew	2

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9 HYDRAULIC SYSTEM

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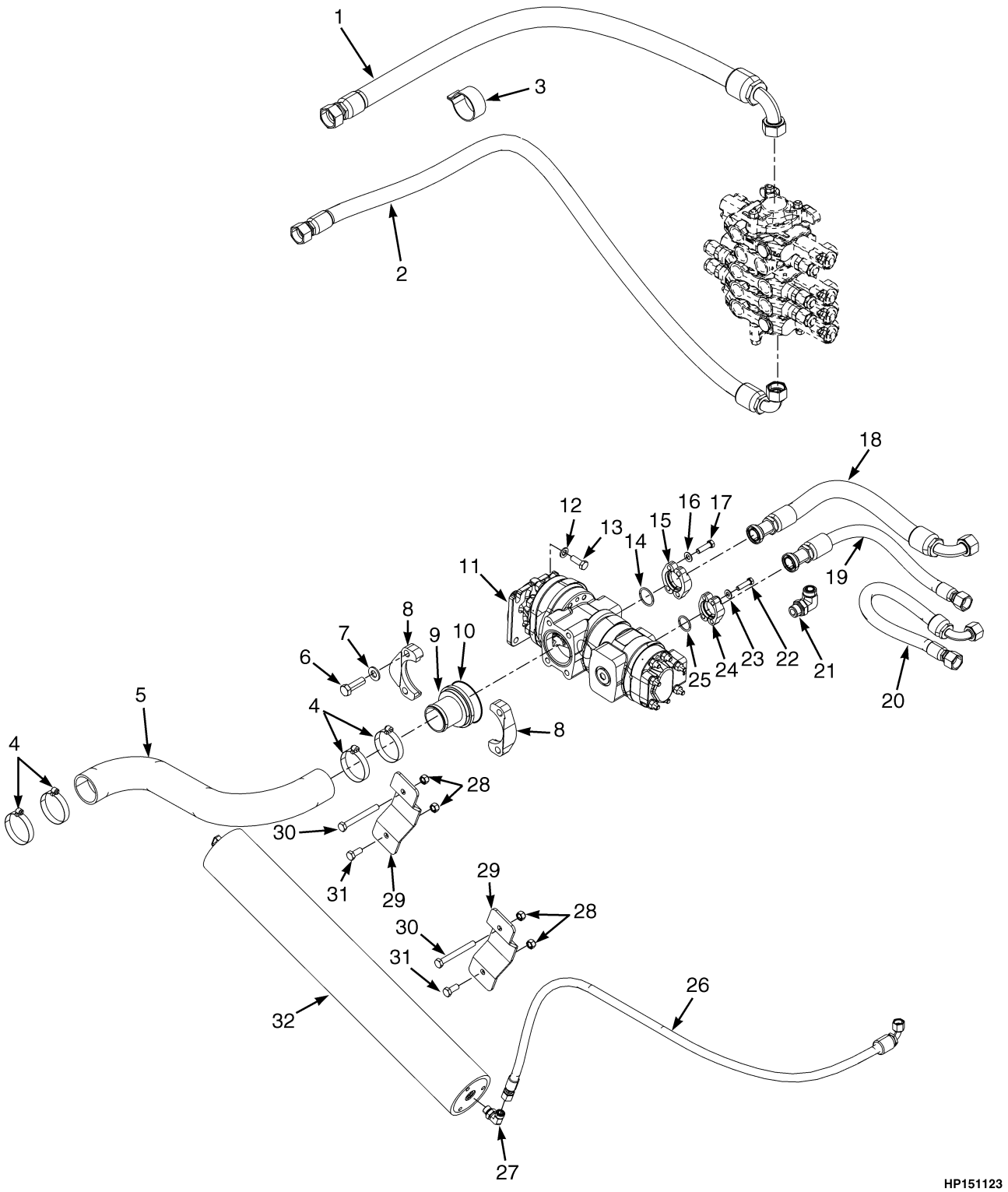
HYDRAULIC SYSTEM (FIGURE 9-1)
CHASSIS SUPPLY AND RETURN



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HYDRAULIC SYSTEM
CHASSIS SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	1640971	Hose Assy	1
2	1640970	Hose Assy	1
3	1557756	Strap (Static)	1
4	~~1514728~~		
	1394008	Hose Clamp	4
5	1611498	Hose	1
6	18602	Capscrew	4
7	15125	Washer	4
8	222533	Fitting Flange (Flange)	2
9	222555	Fitting	1
10	15882	O-Ring	1
11	1611559	Pump , Hydraulic Gear	1
11	~~4028838~~		
	4095148	Hydraulic Pump (Gear) (Alternate Part) (☞Figure 9-3)	1
12	320161	Washer	4
13	~~4048814~~		
	292528	Capscrew	4
14	199917	O-Ring	1
15	17764	Clamp (Split Half)	2
16	15129	Lockwasher	4
17	18558	Capscrew	4
18	1642123	Hose Assy	1
19	1600799	Hose Assy	1
20	1600801	Hose Assy	1
21	~~6996696~~		
	1473898	Fitting (UNF 90 Deg.)	1
21	~~1450764~~		
	16486	O-Ring	1
21	~~1495115~~		
	280154	O-Ring	1
22	16815	Capscrew	4
23	15134	Washer	4
24	190757	Clamp (Split Half)	2
25	199085	O-Ring	1
26	1641034	Hose Assy	1
27	1473897	Fitting	1
27	~~1495113~~		
	265731	O-Ring	1
27	16484	O-Ring	1
28	302402	Locknut	4
29	1376844	Bracket	2
30	292539	Capscrew	2
31	292527	Capscrew	2
32	4023234	Accumulator	1

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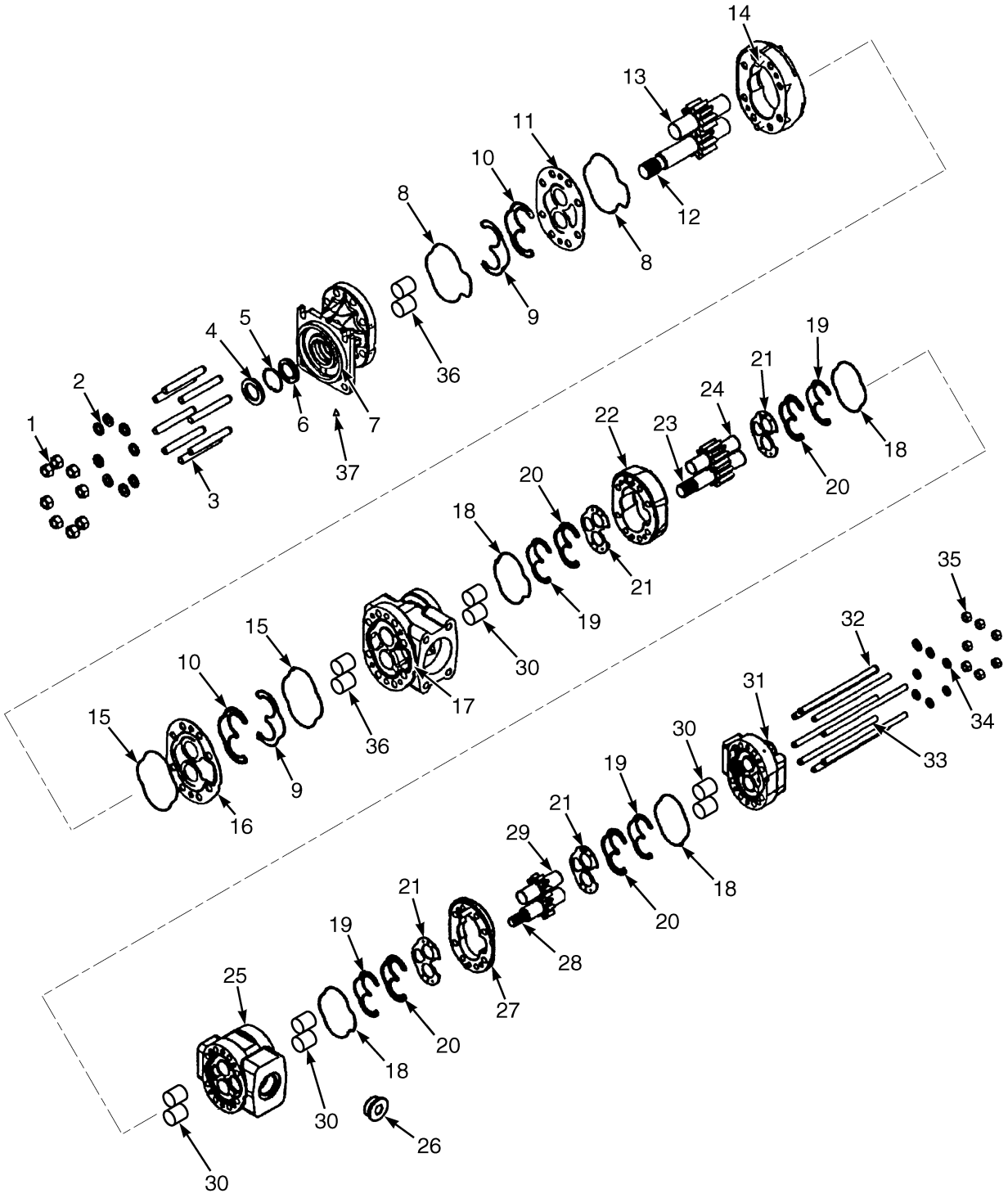
HYDRAULIC GEAR PUMP ASSEMBLY (FIGURE 9-2)



HP151017

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HYDRAULIC GEAR PUMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1611559	Pump , Hydraulic Gear	1
1	221714	Nut	8
2	1318621	Lockwasher	8
3	1615043	Stud	8
4	. . . . .	Seal	1
5	1318619	Retaining Ring	1
6	. . . . .	Seal	1
7	1319579	Cover	1
8	1615051	O-Ring	2
9	. . . . .	Seal	2
10	. . . . .	Retainer	4
11	. . . . .	Wear Plate	1
12	1605425	Drive Gear (Shaft)	1
13	. . . . .	Driven Gear	1
14	. . . . .	Center Section	1
15	1615159	O-Ring	2
16	1318613	Wear Plate	1
17	. . . . .	Port Section (Common Inlet)	1
18	1382052	O-Ring	4
19	1382053	Seal	4
20	. . . . .	Retainer	4
21	1318609	Wear Plate	4
22	. . . . .	Center Section	1
23	. . . . .	Drive Gear (Center)	1
24	. . . . .	Driven Gear	1
25	. . . . .	Port Section	1
26	1600532	Plug	1
27	. . . . .	Center Section	1
28	. . . . .	Drive Gear (Rear)	1
29	. . . . .	Driven Gear (Rear)	1
30	. . . . .	Bushing	8
31	1615040	Cover (Rear)	1
32	1615044	Stud	4
33	1615045	Stud	4
33	4000386	Stud (Alternate Part)	4
34	1318606	Washer	8
35	1450547	Nut	8
36	4000383	Bushing	4
37	294309	Plug	1
	a 4000384	Label (Nameplate)	1
	a 4000385	Screw (Nameplate Mounting)	2
	1615054	Kit-Seal	1

FOOTNOTES:

a Not Illustrated

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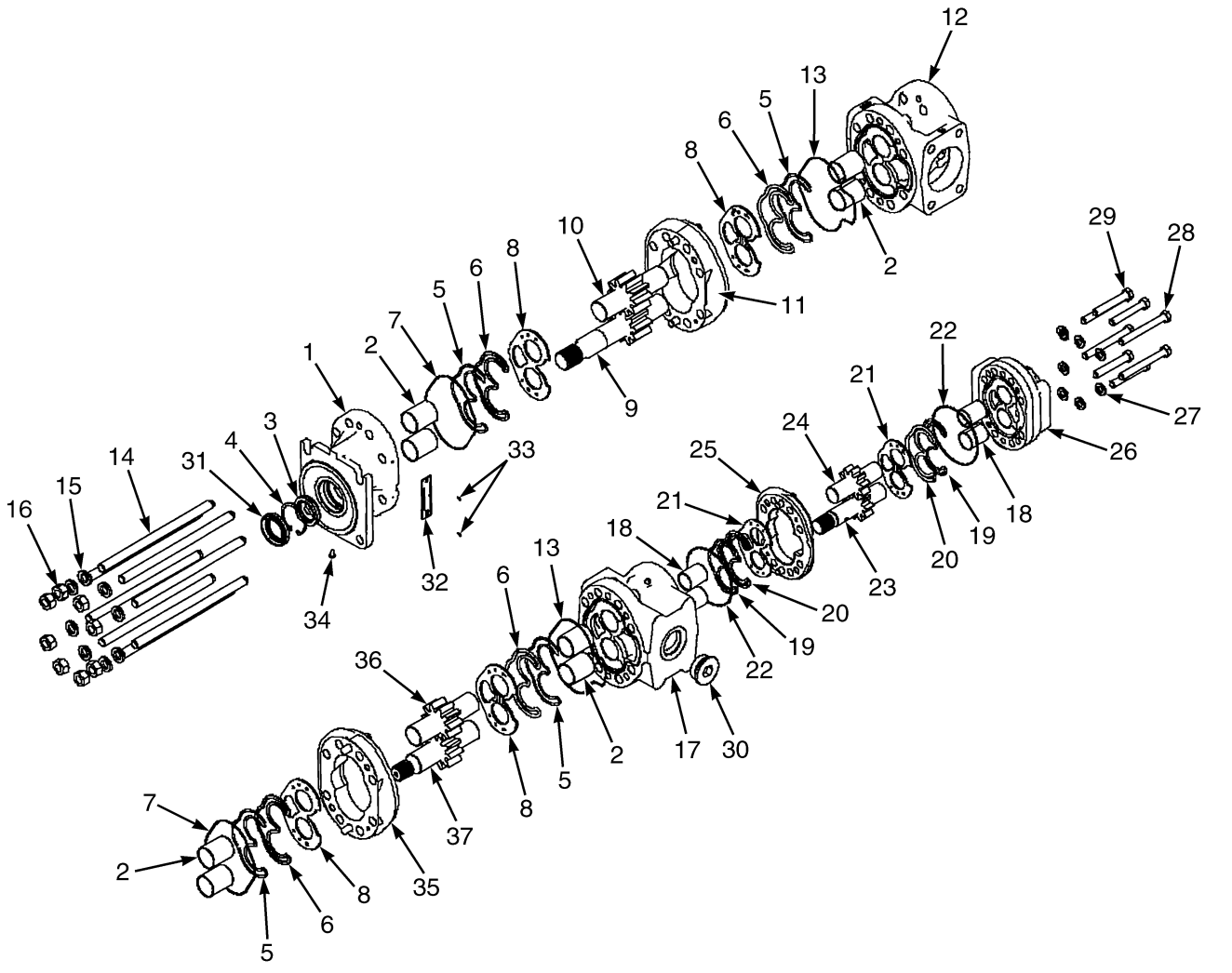
HYDRAULIC GEAR PUMP ASSEMBLY (FIGURE 9-3)
ALTERNATE PART



HP151409

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HYDRAULIC GEAR PUMP ASSEMBLY
ALTERNATE PART

ITEM	PART NO.	DESCRIPTION	QTY
	~~4028838~~		
	4095148	Hydraulic Pump (Gear)	1
1	. . . . .	Cover, Front Machined	1
2	. . . . .	Bushing	8
3	. . . . .	Shaft Seal	1
4	1318619	Retaining Ring	1
5	. . . . .	Gland Seal	4
6	. . . . .	Retainer	4
7	. . . . .	O-Ring	2
8	. . . . .	Wear Plate	4
9	. . . . .	Drive Gear	1
10	. . . . .	Driven Gear	1
11	. . . . .	Center Section	1
12	. . . . .	Port Section	1
13	. . . . .	O-Ring	2
14	. . . . .	Stud	8
15	. . . . .	Lockwasher	8
16	. . . . .	Nut	8
17	. . . . .	Port Section	1
18	. . . . .	Bushing	4
19	1382053	Seal	2
20	. . . . .	Retainer	2
21	. . . . .	Pressure Plate	2
22	1382052	O-Ring	2
23	. . . . .	Center Drive Gear	1
24	. . . . .	Driven Gear	1
25	. . . . .	Center Section	1
26	. . . . .	Rear Cover	1
27	. . . . .	Lockwasher	8
28	. . . . .	Bolt	4
29	. . . . .	Bolt	4
30	. . . . .	Plug	1
31	. . . . .	Shaft Seal	1
32	. . . . .	Nameplate	1
33	. . . . .	Drive Screw	2
34	. . . . .	Weephole Plug	1
35	. . . . .	Center Section	1
36	. . . . .	Driven Gear	1
37	. . . . .	Rear Drive Gear	1
	4137150	Kit-Seal	1

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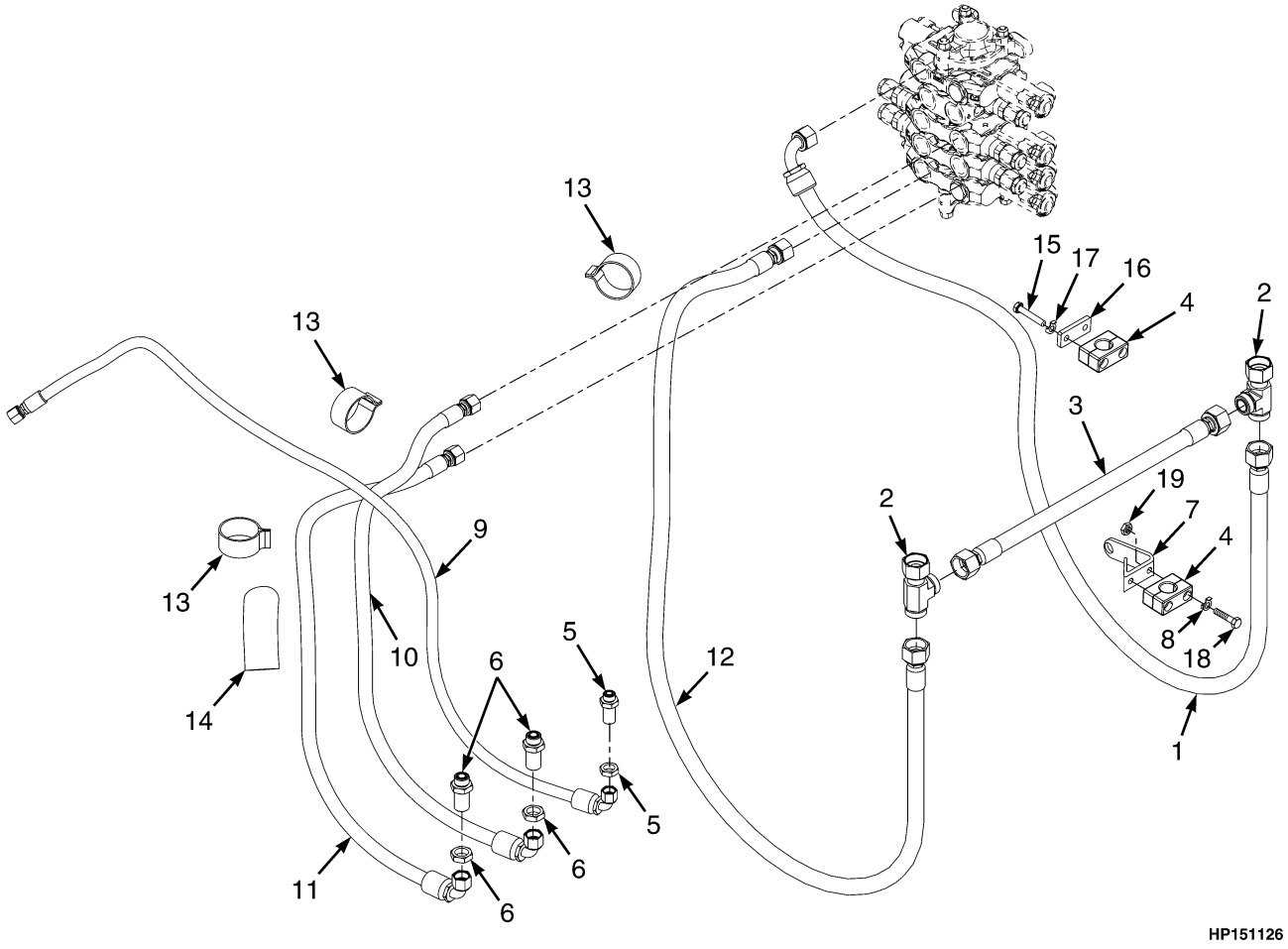
MAST SUPPLY AND RETURN (FIGURE 9-4)



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MAST SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	1610811	Hose Assy	1
2	1487099	Fitting	2
2	244167	O-Ring	2
3	1640896	Hose Assy	1
4	1533655	Clamp (Twin)	4
5	816591	Fitting	1
5	~~1495113~~		
	265731	O-Ring	2
6	1498506	Fitting (Includes Nut)	2
6	~~1495114~~		
	252729	O-Ring	2
7	1653932	Plate	2
8	320159	Washer	4
9	1640838	Hose Assy	1
10	1610809	Hose Assy	1
11	1610808	Hose Assy	1
12	1610812	Hose Assy	1
13	1557756	Strap (Static)	3
14	239308	Sleeve	1
15	292519	Capscrew	4
16	1560005	Cover Plate	4
17	1533662	Lockwasher	8
18	292522	Capscrew	4
19	302401	Locknut	4

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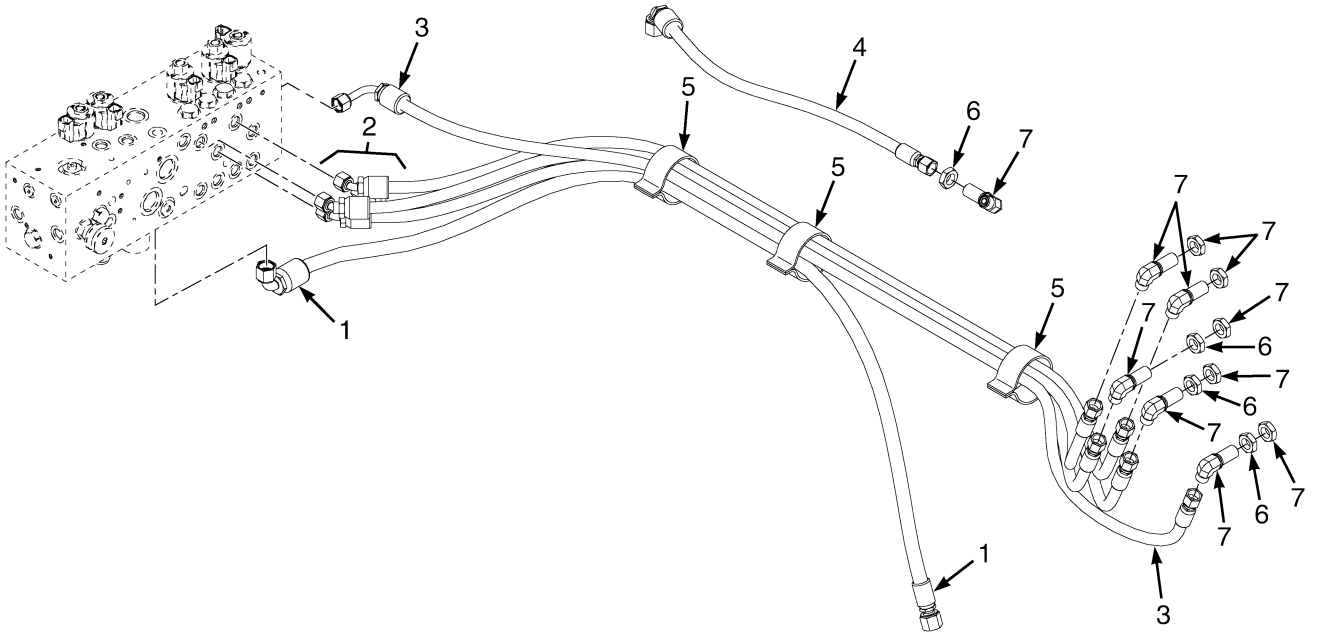
CAB HOSES AND ATTACHING PARTS (FIGURE 9-5)



HP151124

ITEM	PART NO.	DESCRIPTION	QTY
1	1641034	Hose Assy	1
2	1610820	Hose Assy	4
3	1611014	Hose Assy	1
4	1610821	Hose Assy	1
5	1557756	Strap (Static)	3
6	1528602	Locknut	9
7	1528579	Fitting	6
7	~~6992657~~		
	265787	O-Ring	2

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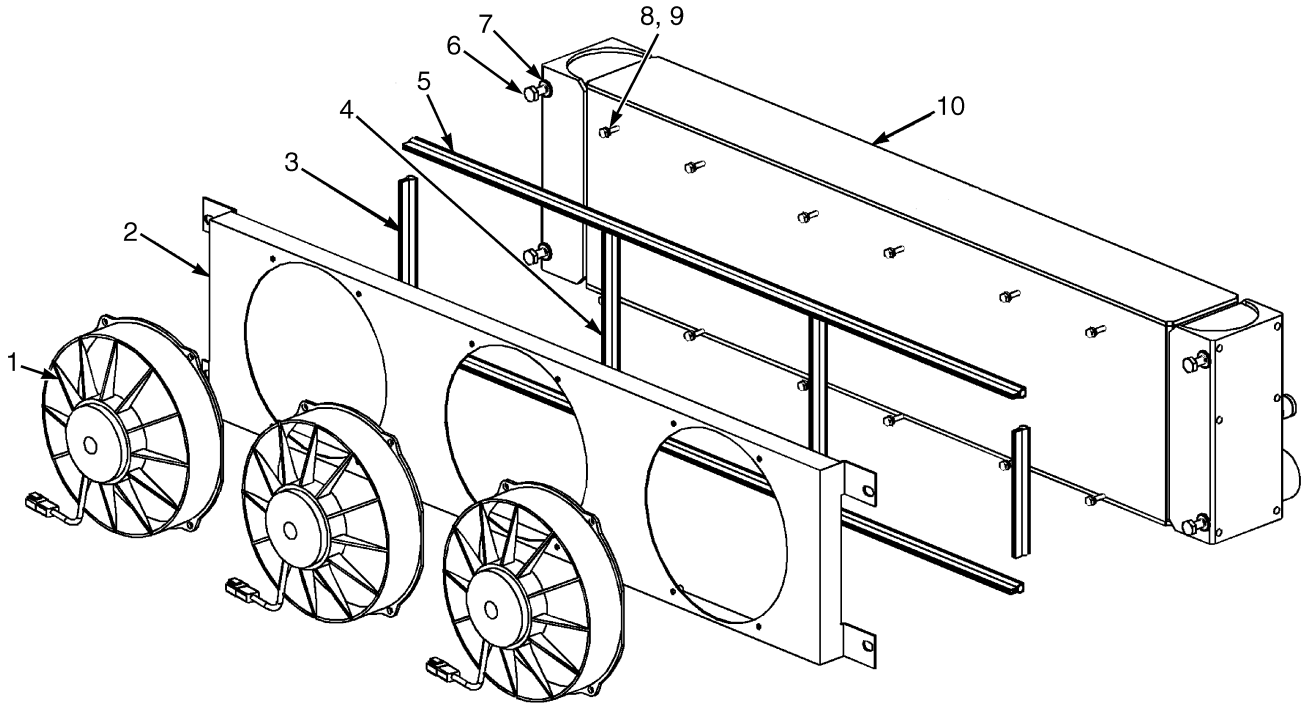
HYDRAULIC OIL COOLER (FIGURE 9-6)
BRAKE



HP151166

ITEM	PART NO.	DESCRIPTION	QTY
	1655935	Oil Cooler Assembly	1
1	1636870	Fan	3
2	1660345	Shroud	1
3	1660343	Gasket (Rubber)	2
4	1660342	Gasket (Rubber)	2
5	1660341	Gasket (Rubber)	2
6	1660347	Bolt	4
7	1636897	Washer	4
8	1636906	Bolt	12
9	1660346	Washer	12
10	1660344	Oil Cooler	1

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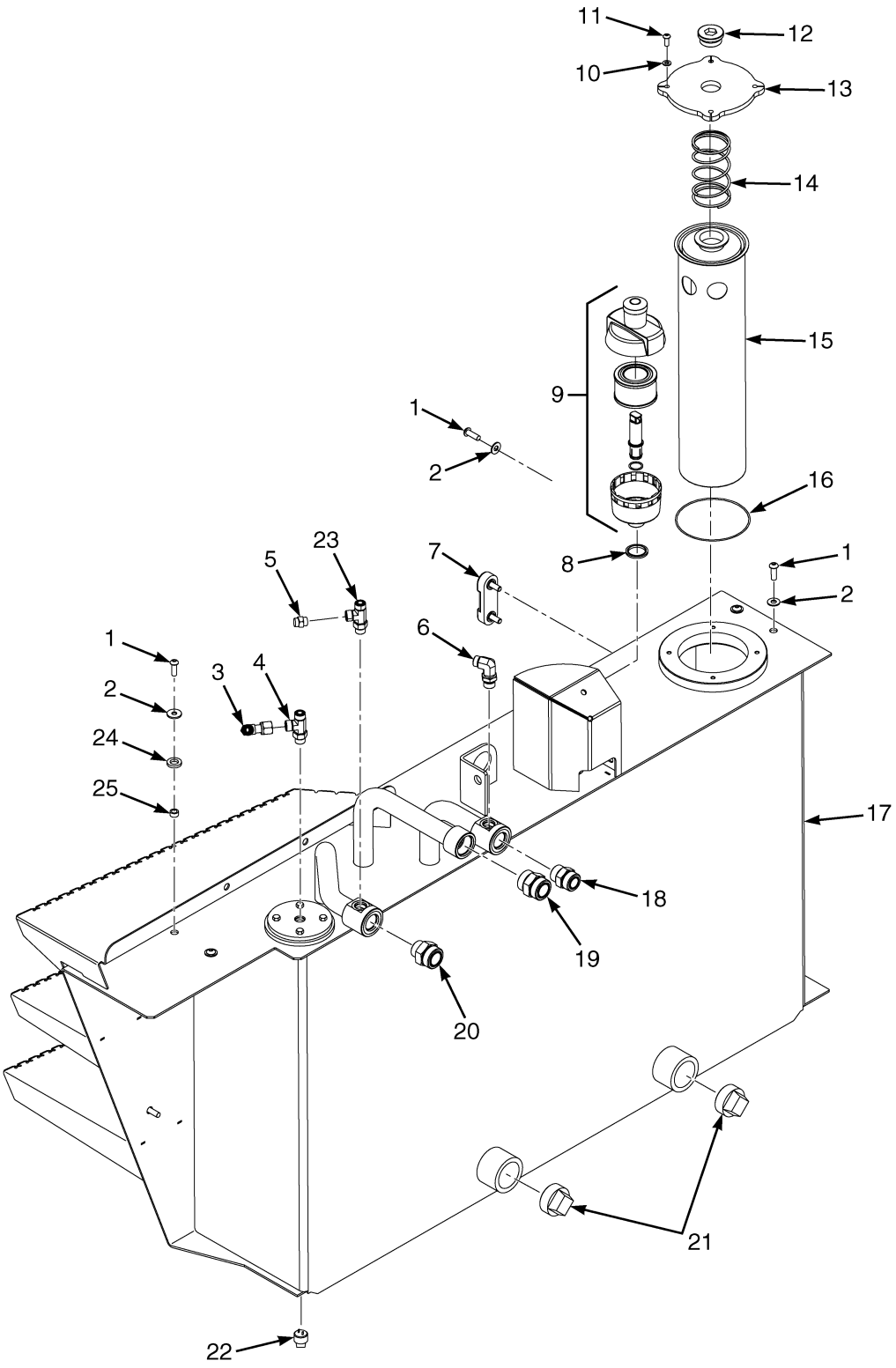
HYDRAULIC TANK (FIGURE 9-7)



HP151121

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HYDRAULIC TANK

ITEM	PART NO.	DESCRIPTION	QTY
1	1597444	Capscrew	8
2	4001859	Washer	8
3	~~6996273~~		
	1486772	Fitting	1
3	~~1495113~~		
	265731	O-Ring	1
4	1592852	Fitting	1
4	16484	O-Ring	1
4	~~1495113~~		
	265731	O-Ring	2
5	1486746	Fitting	1
5	~~1495113~~		
	265731	O-Ring	1
5	16485	O-Ring	1
6	1487065	Fitting	1
6	16485	O-Ring	1
6	~~1495113~~		
	265731	O-Ring	1
7	~~1528144~~		
	4021960	Indicator (Oil Level)	1
8	888333	Seal	1
9	1564721	Breather (With Indicator and Standpipe)	1
9	1494312	Filter Element	1
9	1563867	Pipe	1
9	39373	O-Ring	1
10	~~4166624~~		
	1581556	Washer	4
11	1597448	Capscrew	4
12	1538936	Plug	1
13	1528456	Filter Head	1
14	1533477	Spring	1
15	2059720	Hydraulic Filter	1
16	39756	O-Ring	1
17	~~1546493~~		
	4063544	Hyd Tank Wldmt	1
18	1473889	Fitting	1
18	16487	O-Ring	1
18	244167	O-Ring	1
19	1473924	Fitting	1
19	16983	O-Ring	1
19	1527821	O-Ring	1
20	1486761	Fitting	1
20	16487	O-Ring	1
20	1527821	O-Ring	1
21	222261	Fitting	2
22	35503	Fitting	1
23	1487086	Fitting	1
23	~~1495113~~		
	265731	O-Ring	1
24	4001860	Washer , Rubber	8
25	4001858	Spacer	8

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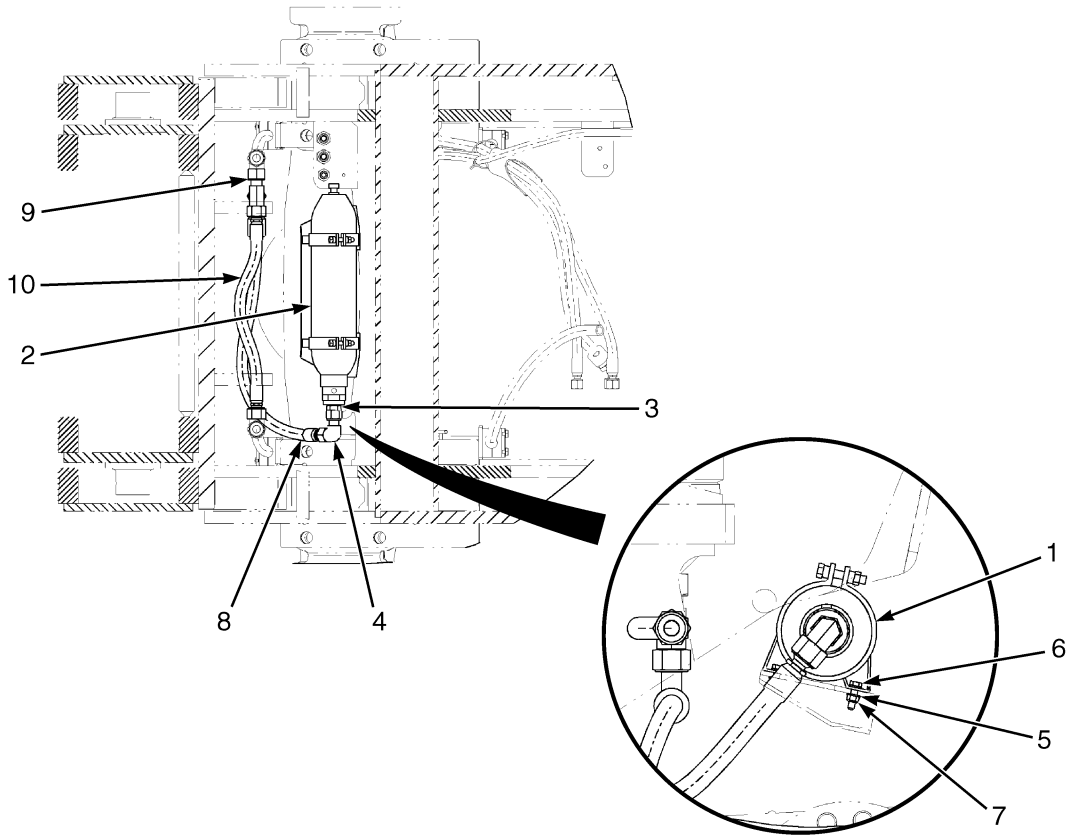
LIFT ACCUMULATOR SYSTEM (FIGURE 9-8)



BP150232

ITEM	PART NO.	DESCRIPTION	QTY
1	1590014	Clamp	2
2	1616994	Accumulator	1
3	1554710	Fitting (BSPP) (ORFS/T - 1.3/16-12) (3/4 in., 26.441 mm)	1
3	. . . . .	O-Ring	1
3	. . . . .	Seal	1
4	~~6996698~~		
	1486774	Fitting (Swivel Nut 90 Deg.) (ORFS/T - 1.3/16-12) (T6 - 1.3/16-12)	1
4	~~1495115~~		
	280154	O-Ring	1
5	320157	Washer	8
6	176640	Bolt	4
7	302400	Nut	4
8	1638874	Hose Assy	1
9	1487099	Fitting	1
9	244167	O-Ring	1
10	1676673	Hose Assy	1
	a 4612187	Label (Pressure Warning)	1

FOOTNOTES:

a Not Illustrated

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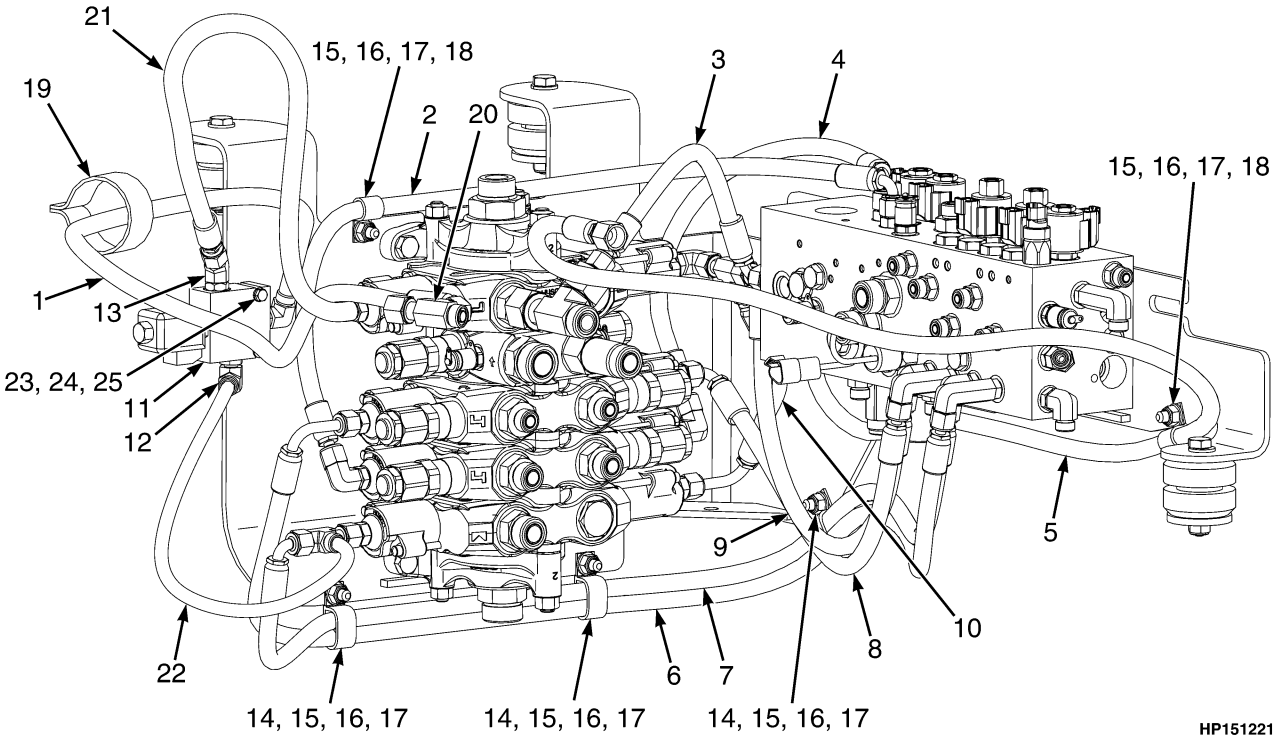
MAIN HYDRAULIC VALVES AND HOSES (FIGURE 9-9)



KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	4027617	Hose Assy	..	1
2	1603084	Hose Assy	1	1
3	1603904	Hose Assy	1	1
4	1603091	Hose Assy	1	1
5	1638182	Hose Assy	1	1
6	1603083	Hose Assy	1	1
7	1602453	Hose Assy	1	1
8	1603080	Hose Assy	1	1
9	1603078	Hose Assy	1	1
10	1603085	Hose Assy	1	1
11	1383517	Solenoid Valve Assembly (☞Figure 9-30)	..	1
12	1487063	Fitting	..	2
12	~~6992657~~			
	265787	O-Ring	1	1
12	16483	O-Ring	1	1
13	1516199	Fitting	..	1
13	~~6992657~~			
	265787	O-Ring	1	1
13	16483	O-Ring	1	1

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KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
14	203230	Clamp	3	3
15	320159	Washer	12	12
16	302401	Locknut	6	6
17	136985	Capscrew	6	6
18	128408	Clamp	3	3
19	1557756	Strap (Static)	..	1
20	~~6996701~~			
	1487095	Fitting (Swivel Nut Run Tee)	..	1
20	~~1495113~~			
	265731	O-Ring	..	3
21	4033772	Hose Assy	..	1
22	1640990	Hose Assy	..	1
23	320156	Washer	..	4
24	292505	Capscrew	..	2
25	302399	Nut	..	2

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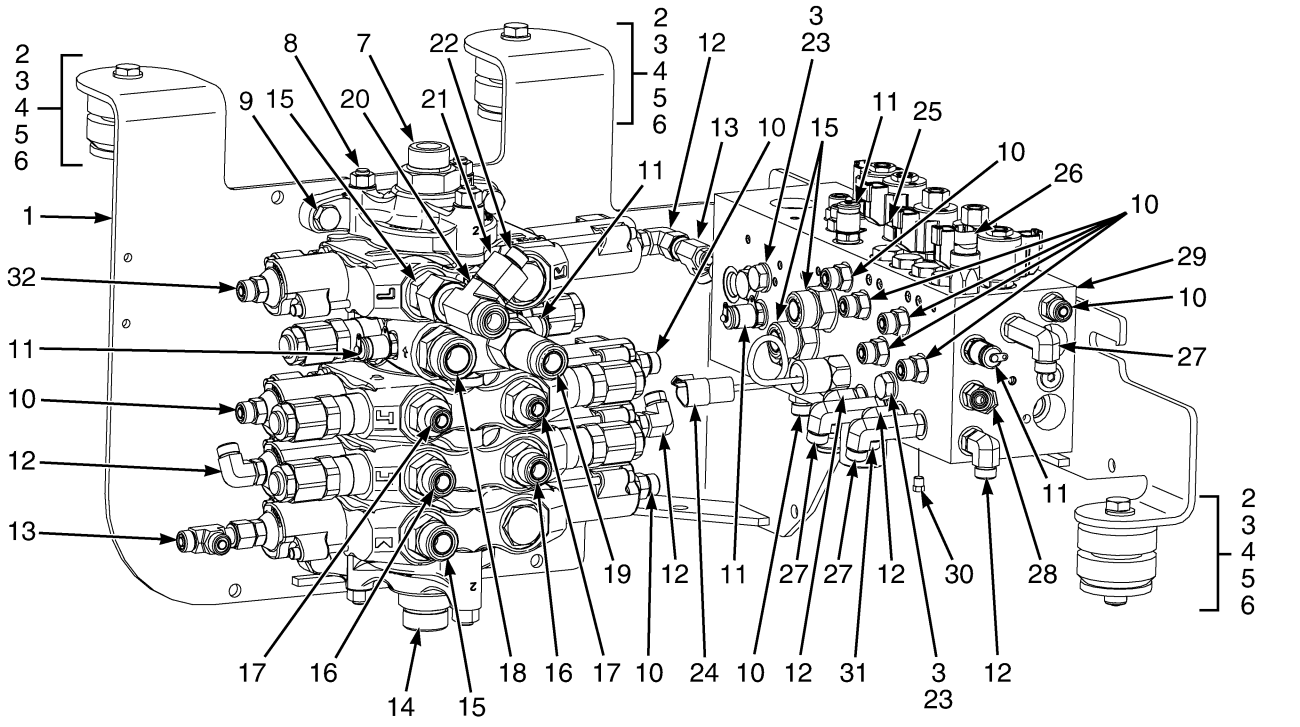
MAIN HYDRAULIC VALVES AND ATTACHING PARTS (FIGURE 9-10)



KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	~~1610805~~			
	4027609	Valve Plate	..	1
1	~~1610805~~			
	4027609	Valve Plate	1	..
2	292535	Capscrew	3	3
3	320161	Washer	5	5
4	1486540	Mount (Cab)	3	3
5	300939	Washer	3	3
6	302402	Locknut	3	3
7	1486761	Fitting	1	1
7	1527821	O-Ring	1	1
7	16487	O-Ring	1	1
8	4027612	Hydraulic Control Valve (Main Hydraulic) (☞Figure 9-12)	..	1
8	1610796	Hydraulic Control Valve (Main Hydraulic) (☞Figure 9-12)	1	..
9	246001	Capscrew	4	4
10	1486740	Fitting	15	15
10	~~6992657~~			
	265787	O-Ring	1	1
10	~~1495111~~			
	1527813	O-Ring	1	1
11	1473927	Quick Disconnect Fitting (For Hydraulic Pressure Test Port)	5	5
12	1487063	Fitting	6	6

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
12	~~6992657~~			
	265787	O-Ring	1	1
12	~~1495111~~			
	1527813	O-Ring	1	1
13	1487097	Fitting	2	2
13	~~6992657~~			
	265787	O-Ring	2	2
14	1473889	Fitting	1	1
14	16487	O-Ring	1	1
14	244167	O-Ring	1	1
15	1473888	Fitting	4	4
15	~~1450764~~			
	16486	O-Ring	1	1
15	16982	O-Ring	1	1
16	~~6996684~~			
	1486751	Fitting	2	2
16	~~1495114~~			
	252729	O-Ring	1	1
16	1527821	O-Ring	1	1
17	1486747	Fitting	2	2
18	1486758	Fitting	1	1
18	~~1450764~~			
	16486	O-Ring	1	1
18	244167	O-Ring	1	1
19	1528597	Fitting	1	1
19	~~1495115~~			
	280154	O-Ring	1	1
19	1527821	O-Ring	1	1
20	~~6996702~~			
	1473892	Fitting (Swivel Nut Run Tee) (ORFS/T - 1.3/16-12) (T6 - 1.3/16-12)	1	1
20	~~1495115~~			
	280154	O-Ring	2	2
21	1487166	Fitting	1	1
21	~~1495115~~			
	280154	O-Ring	1	1
22	1487149	Fitting	1	1
22	~~6992657~~			
	265787	O-Ring	1	1
23	287814	Capscrew	2	2
24	4022794	Pressure Switch (Low Brake)	..	1
24	1476739	Pressure Switch (Low Brake)	1	..
25	1486746	Fitting	1	1
25	16485	O-Ring	1	1
25	~~6992657~~			
	265787	O-Ring	1	1
26	4028950	Pressure Switch (Brake Lights)	..	1
26	1332206	Pressure Switch (Brake Lights)	1	..
27	1486558	Fitting	3	3

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KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
27	~~1495111~~			
	1527813	O-Ring	1	1
27	~~6992657~~			
	265787	O-Ring	1	1
28	1516199	Fitting	1	1
28	~~6992657~~			
	265787	O-Ring	1	1
28	16483	O-Ring	1	1
29	1641992	Valve (Combination) (☞Figure 9-11)	1	1
30	14349	Fitting (Pipe Plug)	1	1
31	~~6996681~~			
	1473887	Fitting	1	1
31	~~1495113~~			
	265731	O-Ring	1	1
31	16484	O-Ring	1	1
32	4033703	Fitting	1	1

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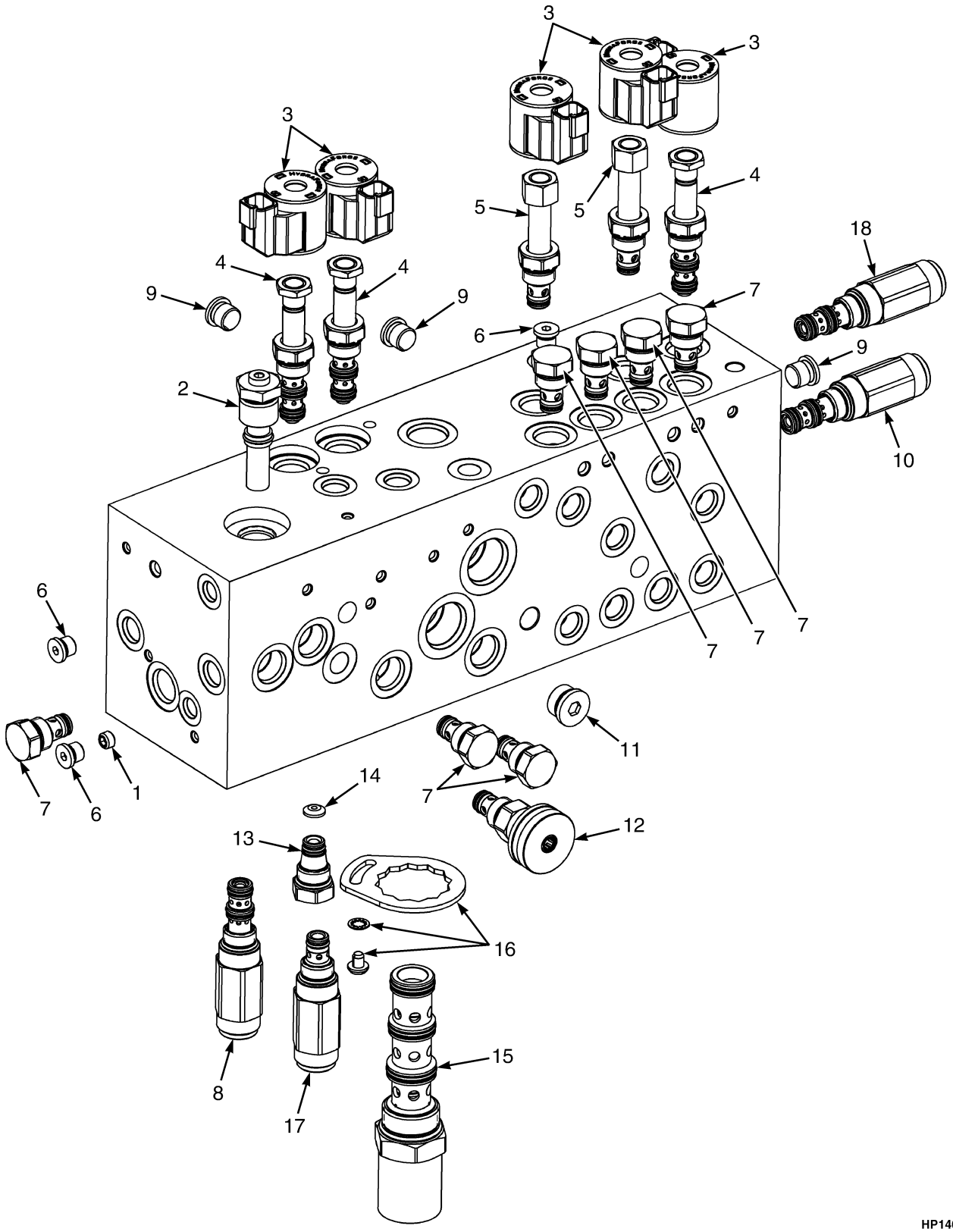
COMBINATION VALVE (FIGURE 9-11)



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COMBINATION VALVE

ITEM	PART NO.	DESCRIPTION	QTY
	1641992	Valve (Combination)	1
1	1658804	Plug	1
2	1656340	Filter	1
3	1618471	Coil (CL2)	5
4	1618479	Solenoid Valve	3
4	1618485	Kit-Valve	1
5	1618478	Solenoid Valve	2
5	1517906	Kit-Seal	1
6	222442	Fitting Assembly	4
6	204128	Plug	1
6	16481	O-Ring	1
7	1618469	Check Valve (CV3)	7
7	1517906	Kit-Seal	1
8	~~1618475~~		
	1658799	Pressure Valve (Pressure Control)	1
8	1618483	Kit-Valve	1
9	~~1579809~~		
	222443	Fitting	3
9	16483	O-Ring	1
10	1658800	Pressure Valve (Pressure Control)	1
10	1618483	Kit-Valve	1
11	~~1589792~~		
	235691	Fitting	1
12	1618472	Valve (Needle)	1
12	1618482	Kit-Valve	1
13	1618477	Cartridge	1
13	1517906	Kit-Seal	1
14	1618466	Fitting	1
15	1658803	Flow Valve (Flow Control)	1
15	1657113	Kit-Seal	1
16	1656354	Lockplate Kit	1
17	1618476	Pilot Valve (Unload Pilot)	1
17	1618484	Kit-Valve	1
18	~~1618473~~		
	1658801	Pressure Valve (Pressure Control PR4)	1
18	1618483	Kit-Valve	1

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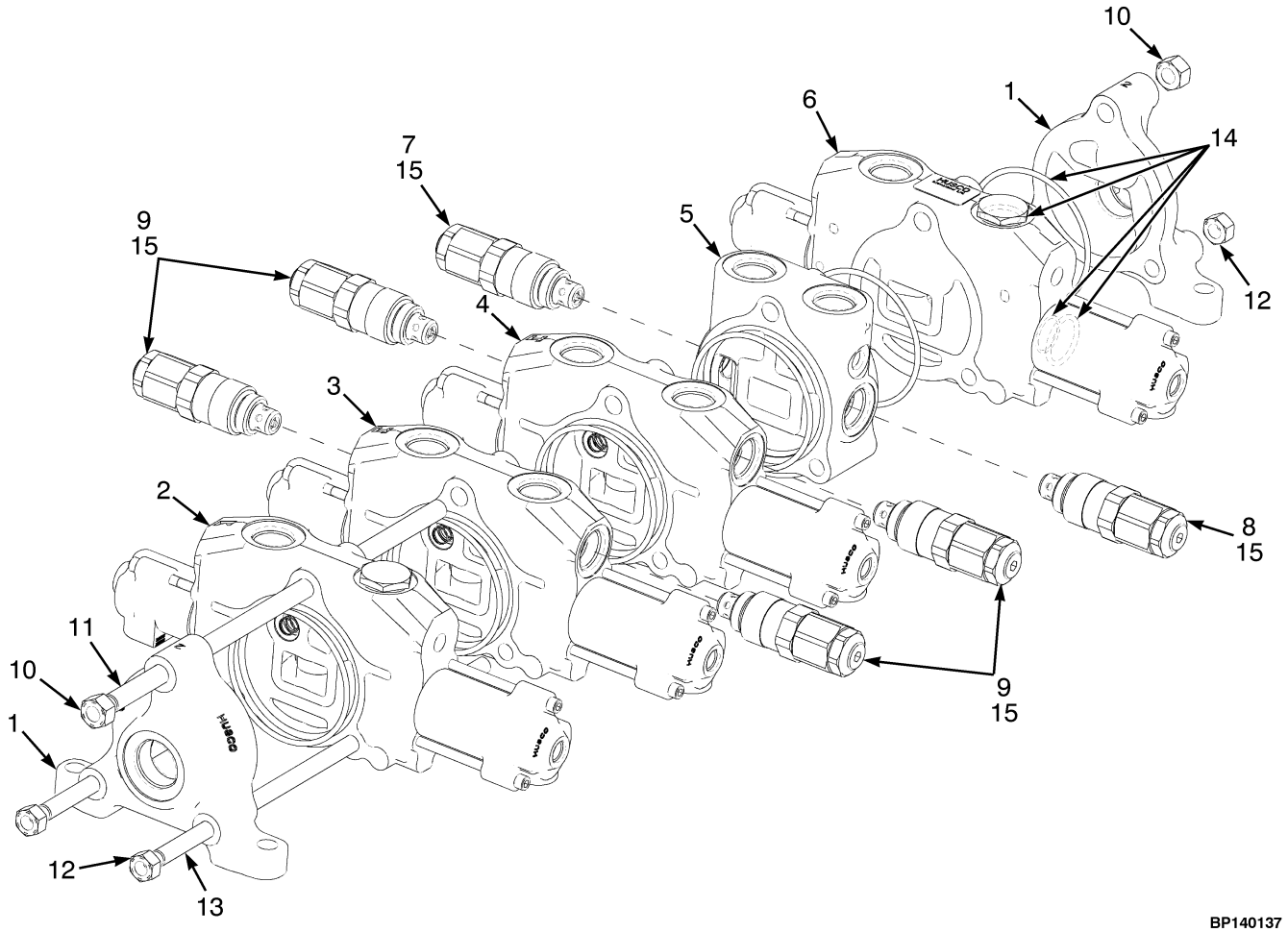
CONTROL VALVE (FIGURE 9-12)



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CONTROL VALVE

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1610796	Hydraulic Control Valve (Main Hydraulic)	2	..
	4027612	Hydraulic Control Valve (Main Hydraulic)	..	2
1	1377229	Valve Section (Outlet) (Outlet Section Assy) (☞Figure 9-14)	2	2
2	1632310	Valve Section (Lift 1A, 1B) (Lift Section Assy) (☞Figure 9-16)	1	..
2	4031963	Valve Section (Lift 1A, 1B) (Lift Section Assy) (☞Figure 9-16)	..	1
3	1632311	Valve Section (Mid-Inlet) (Mid Inlet Section Assy) (☞Figure 9-13)	1	1
4	1632312	Valve Section (Tilt) (Tilt Section Assy) (☞Figure 9-15)	1	..
4	4031960	Valve Section (Tilt) (Tilt Section Assy) (☞Figure 9-15)	..	1
5	1646923	Valve Section (Auxiliary) (Spool Section Assy) (☞Figure 9-18)	1	1
6	1632314	Valve Section (Lift 4A, 4B) (Lift Section Assy) (☞Figure 9-17)	1	..
6	4031966	Valve Section (Lift 4A, 4B) (Lift Section Assy) (☞Figure 9-17)	..	1
7	1646924	Relief Valve	1	..
7	4031968	Relief Valve	..	1
7	1632318	Kit-Seal	1	1
8	1646925	Relief Valve	1	..
8	4031969	Relief Valve	..	1
8	1632318	Kit-Seal	1	1
9	1632317	Relief Valve	4	..
9	4031970	Relief Valve	..	4
9	1632318	Kit-Seal	1	1
10	1320983	Nut	2	2
11	1692417	Tie Rod	1	1
12	1320986	Nut	4	4
13	1692416	Tie Rod	2	2
14	1632308	Kit-Seal (Control Valve)	1	1
14	1320982	O-Ring	6	6
14	15865	O-Ring	4	4
14	~~1450764~~			
	16486	O-Ring	2	2
14	39767	O-Ring	8	8
15	1632318	Kit-Seal (Relief Valve)	1	1
15	. . . . .	Sleeve	1	1
15	. . . . .	O-Ring	1	1
15	266519	O-Ring	1	1
15	18921	Back-Up Ring	2	2
15	1637277	Spring	1	1
15	1637278	Spring	1	1
15	. . . . .	Sleeve	1	1
15	1637279	Spring	1	1
15	1391643	O-Ring	2	2
	1692415	Kit-Tie Rod	1	1

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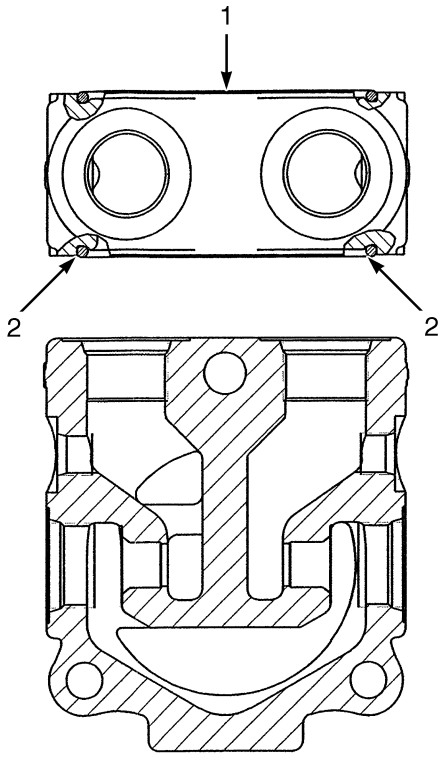
CONTROL VALVE (FIGURE 9-13)
MID-INLET SECTION



HP140027

ITEM	PART NO.	DESCRIPTION	QTY
1	1632311	Valve Section (Mid-Inlet)	1
2	1320982	O-Ring	2

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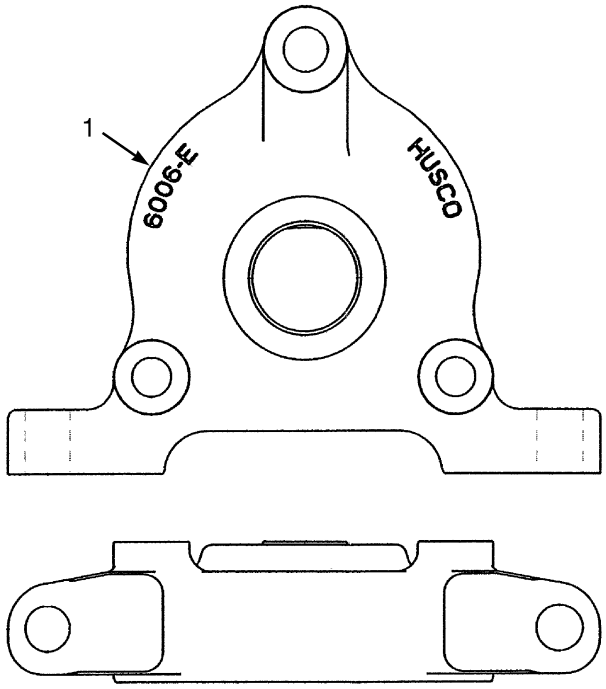
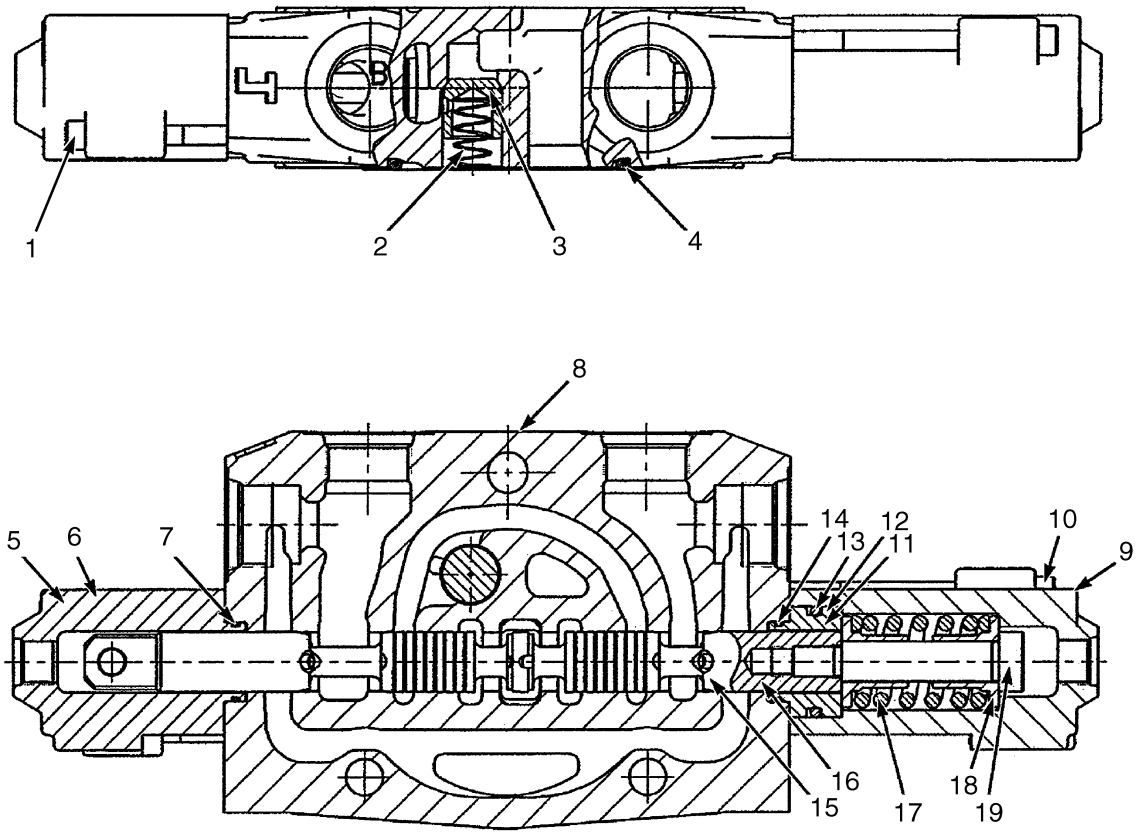
CONTROL VALVE (FIGURE 9-14)
OUTLET SECTION



HP140025

ITEM	PART NO.	DESCRIPTION	QTY
1	1377229	Valve Section (Outlet)	1

CONTROL VALVE (FIGURE 9-15)
TILT SPOOL SECTION



HP40028

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CONTROL VALVE
TILT SPOOL SECTION

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1632312	Valve Section (Tilt)	1	..
	4031960	Valve Section (Tilt)	..	1
1	1635034	Capscrew	2	2
2	1320994	Spring	1	1
3	1320998	Poppet	1	1
4	1320982	O-Ring	1	1
5	1635032	Cap Assembly	1	1
6	1635033	Cap	1	1
7	39767	O-Ring	1	1
8	. . . . .	Housing	1	1
9	1635035	Cap	1	1
10	1635036	Capscrew	2	2
11	1635028	Retainer Assembly	1	1
12	. . . . .	Retainer	1	1
13	15865	O-Ring	1	1
14	39767	O-Ring	1	1
15	. . . . .	Spool Assembly	1	1
16	. . . . .	Spool	1	1
17	1484315	Spring	1	..
17	4031962	Spring	..	1
18	1635031	Spring Seat	2	2
19	1377216	Screw	1	1

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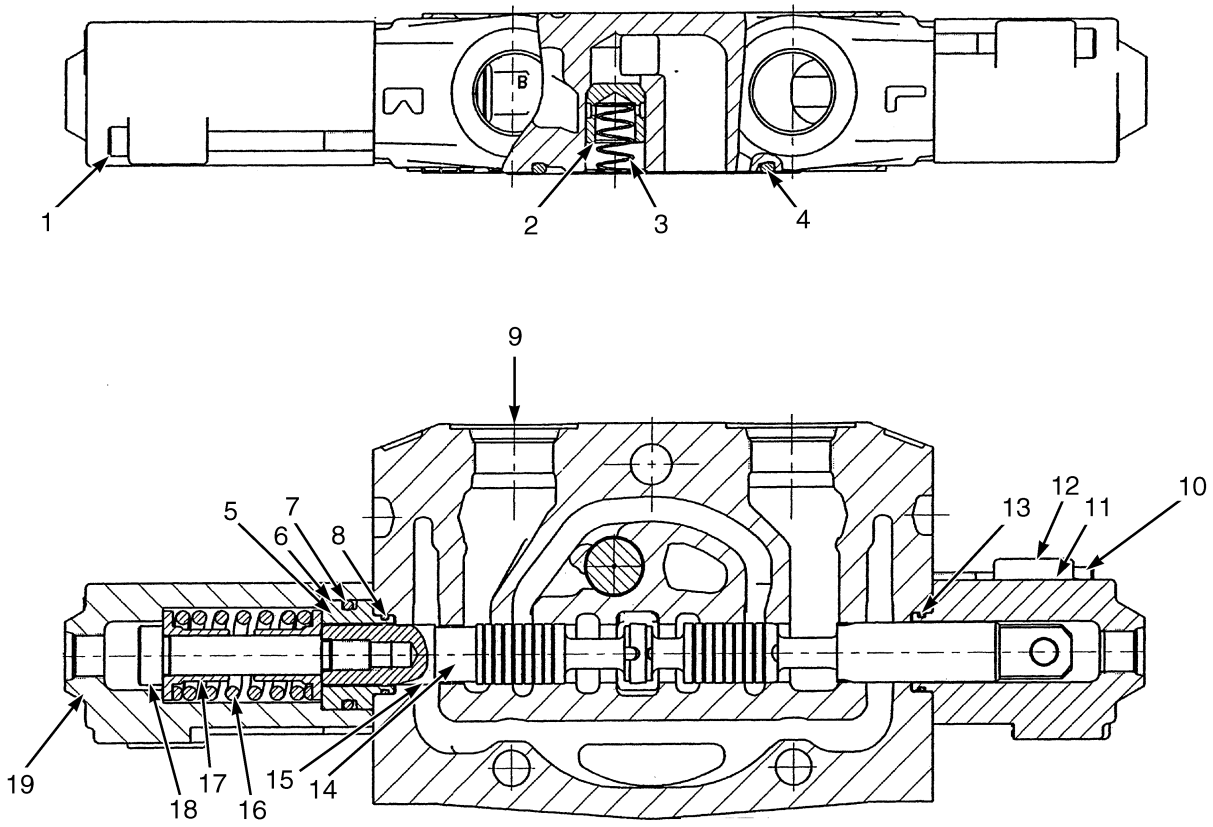
CONTROL VALVE (FIGURE 9-16)
LIFT SPOOL SECTION — 1A AND 1B



HP140026

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CONTROL VALVE
LIFT SPOOL SECTION – 1A AND 1B

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1632310	Valve Section (Lift 1A, 1B)	1	..
	4031963	Valve Section (Lift 1A, 1B)	..	1
1	1635036	Capscrew	2	2
2	1320998	Poppet	1	1
3	1320994	Spring	1	1
4	1320982	O-Ring	1	1
5	1635028	Retainer Assembly	1	1
6	. . . . .	Retainer	1	1
7	15865	O-Ring	1	1
8	39767	O-Ring	1	1
9	. . . . .	Housing	1	1
10	1635034	Capscrew	1	1
11	1635032	Cap Assembly	1	1
12	1635033	Cap	1	1
13	39767	O-Ring	1	1
14	. . . . .	Spool Assembly	1	1
15	. . . . .	Spool	1	1
16	1377216	Screw	1	1
17	1635031	Spring Seat	2	2
18	1484316	Spring	1	..
18	4031962	Spring	..	1
19	1635035	Cap	1	1

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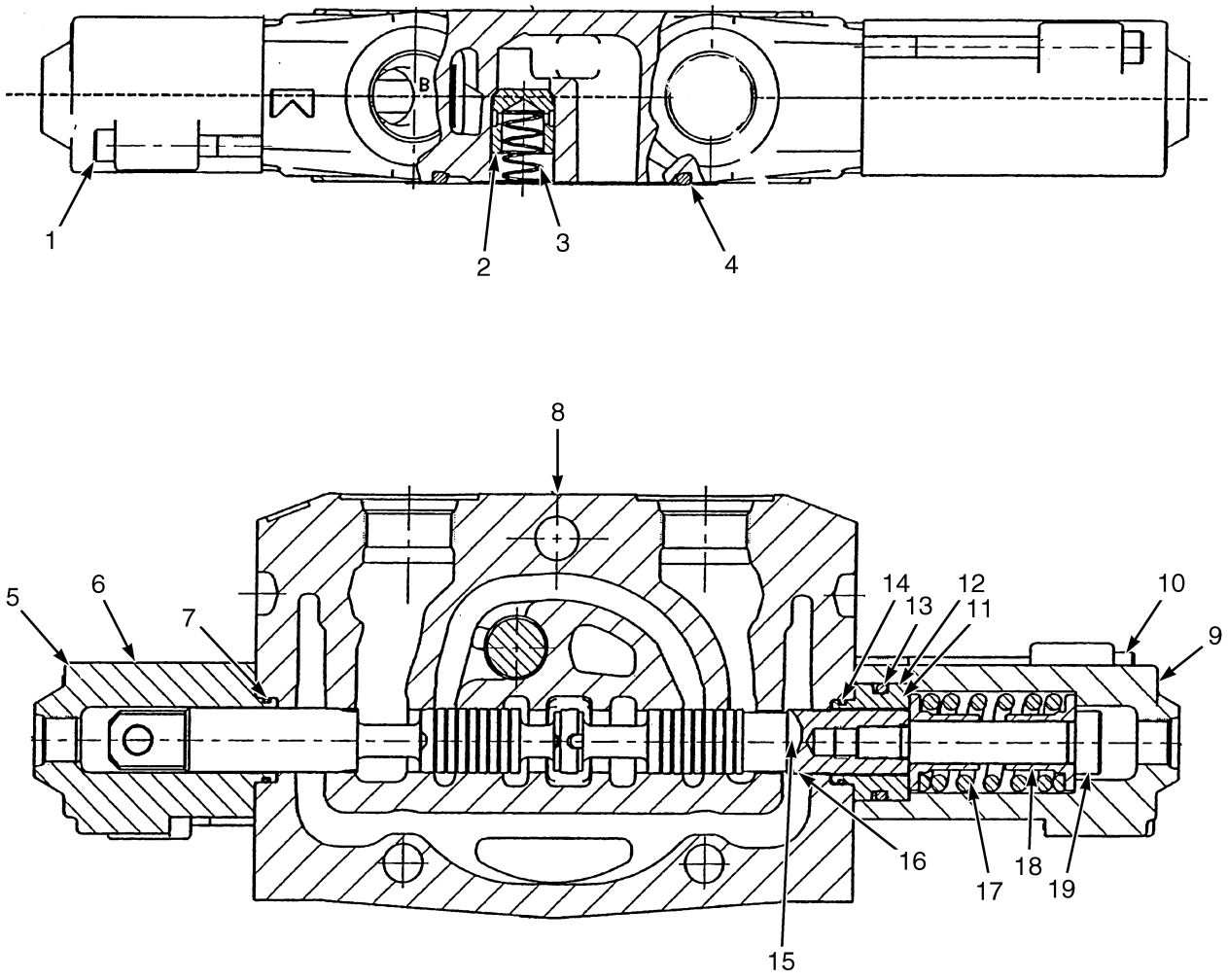
CONTROL VALVE (FIGURE 9-17)
LIFT SPOOL SECTION — 4A AND 4B



HP140030

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CONTROL VALVE
LIFT SPOOL SECTION – 4A AND 4B

KEY:
A: Tier III Engine
B: Tier IV Interim Engine

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1632314	Valve Section (Lift 4A, 4B)	1	..
	4031966	Valve Section (Lift 4A, 4B)	..	1
1	1635034	Capscrew	2	2
2	1320998	Poppet	1	1
3	1320994	Spring	1	1
4	1320982	O-Ring	1	1
5	1635032	Cap Assembly	1	1
6	1635033	Cap	1	1
7	39767	O-Ring	1	1
8	. . . . .	Housing	1	1
9	1635035	Cap	1	1
10	1635036	Capscrew	2	2
11	1635028	Retainer Assembly	1	1
12	. . . . .	Retainer	1	1
13	15865	O-Ring	1	1
14	39767	O-Ring	1	1
15	. . . . .	Spool Assembly	1	1
16	. . . . .	Spool	1	1
17	1484316	Spring	1	..
17	4031962	Spring	..	1
18	1635031	Spring Seat	2	2
19	1377216	Screw	1	1

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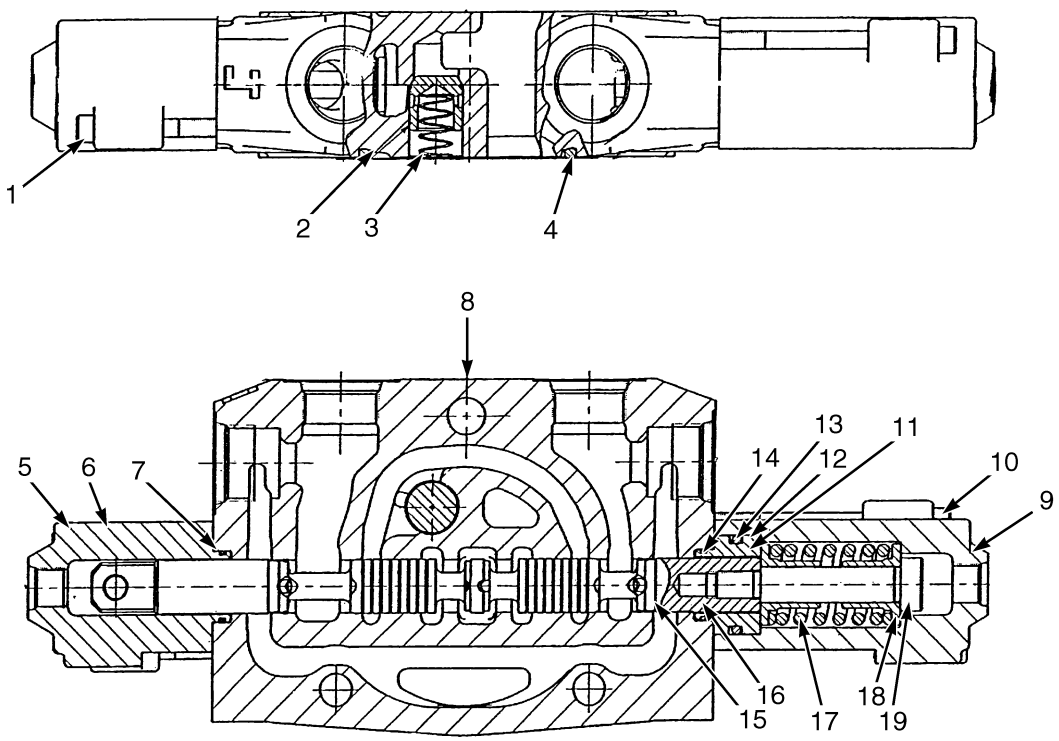
CONTROL VALVE (FIGURE 9-18)
AUXILIARY SPOOL SECTION



HP140029

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CONTROL VALVE
AUXILIARY SPOOL SECTION

ITEM	PART NO.	DESCRIPTION	QTY
	1646923	Valve Section (Auxiliary)	1
1	1635034	Capscrew	2
2	1320998	Poppet	1
3	1320994	Spring	1
4	1320982	O-Ring	1
5	1635032	Cap Assembly	1
6	1635033	Cap	1
7	39767	O-Ring	1
8	. . . . .	Housing	1
9	1635035	Cap	1
10	1635036	Capscrew	2
11	1635028	Retainer Assembly	1
12	. . . . .	Retainer	1
13	15865	O-Ring	1
14	39767	O-Ring	1
15	. . . . .	Spool Assembly	1
16	. . . . .	Spool	1
17	1484316	Spring	1
18	1635031	Spring Seat	2
19	1377216	Screw	1

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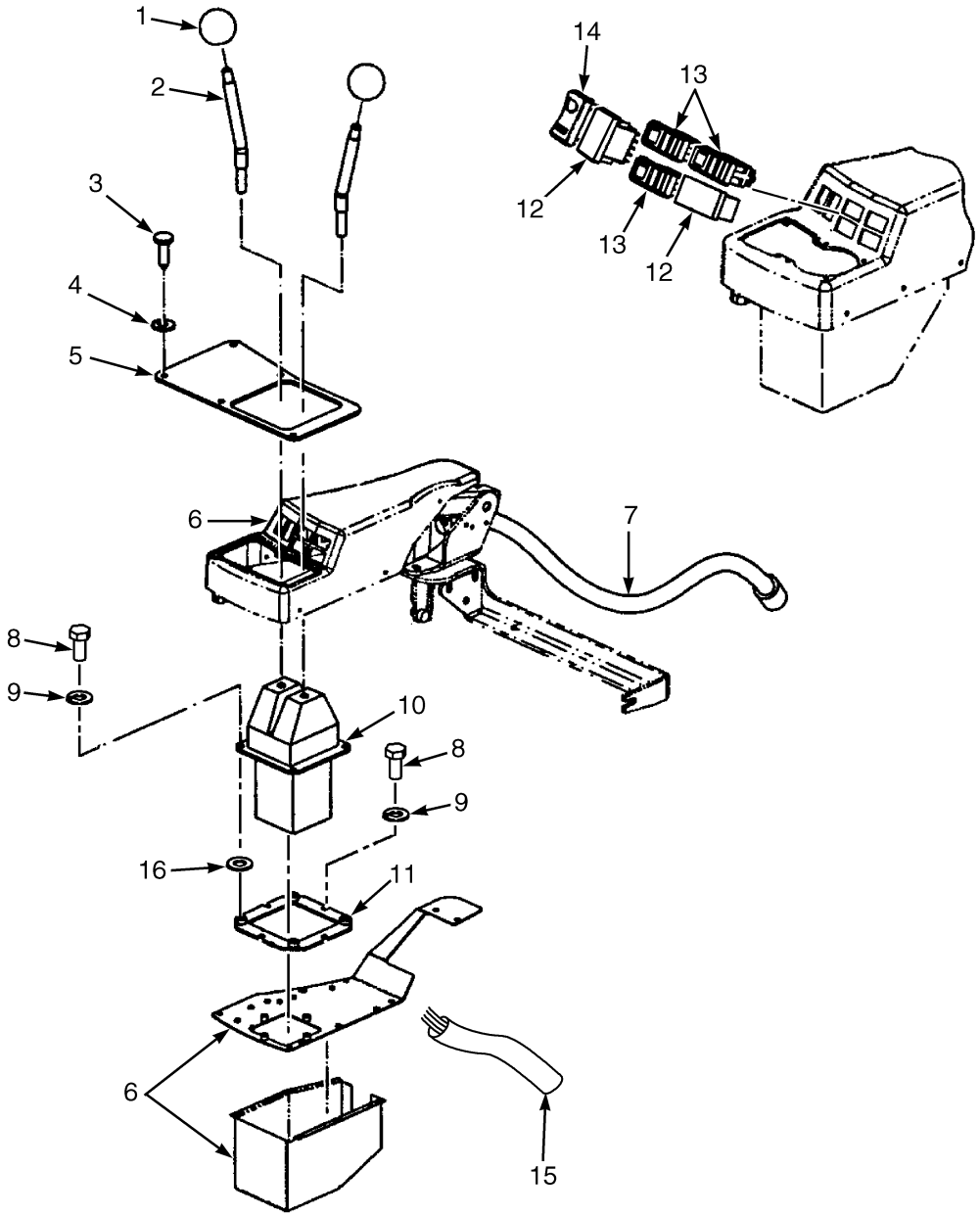
HYDRAULIC LEVERS (FIGURE 9-19)



HP121347

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HYDRAULIC LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1623287	Knob	2
2	1623286	Lever	2
3	292501	Capscrew	6
4	1492140	Washer	6
5	4036719	Cover Plate	1
6	1623187	Armrest Assembly	1
7	1545176	Wire Harness (Armrest) (Tier III Engine)	1
7	4023000	Wire Harness (Armrest) (Tier IV Interim Engine)	1
8	292500	Capscrew	8
9	320156	Washer	8
10	1539567	Pilot Valve Assembly (☞Figure 9-21)	1
11	4036720	Plate (Gasket)	1
12	1498383	Plug (Switch)	2
13	2054005	Switch	3
14	2043344	Switch (Horn)	1
15	1644693	Kit-Hose (☞Figure 9-20)	1
16	1571776	Washer	4
	a 1547278	Wire Harness (Hydraulic Lever Switches)	1

FOOTNOTES:

a Not Illustrated

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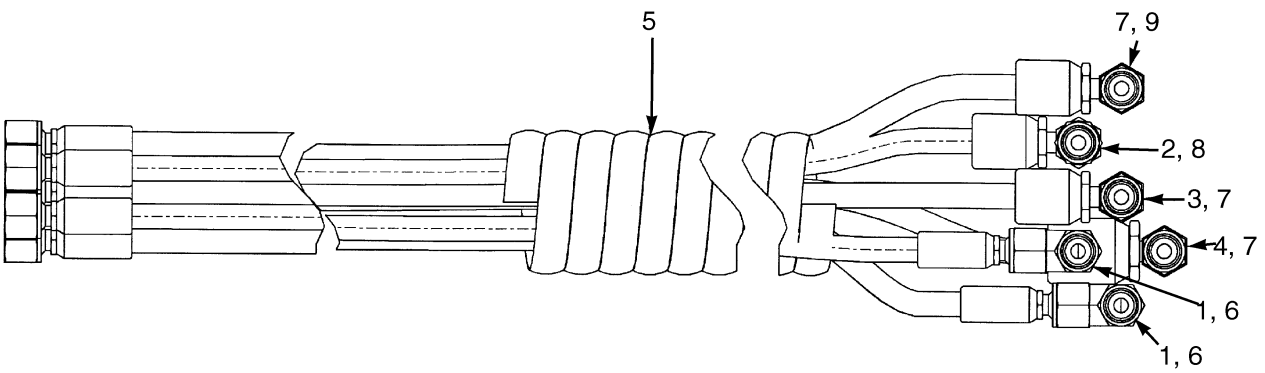
HYDRAULIC LEVERS HOSE ASSEMBLY (FIGURE 9-20)



ITEM	PART NO.	DESCRIPTION	QTY
	1644693	Kit-Hose	1
1	1644689	Hose Assy	2
2	1644690	Hose Assy	1
3	1644691	Hose Assy	1
4	1644692	Hose Assy	1
5	1555981	Hose Guard	1
6	1487063	Fitting	2
6	~~6992657~~		
	265787	O-Ring	1
6	16483	O-Ring	1
7	1486740	Fitting	1
7	~~6992657~~		
	265787	O-Ring	1
7	16483	O-Ring	1
8	1528595	Fitting	3
8	~~6992657~~		
	265787	O-Ring	1
8	16483	O-Ring	1
9	1658940	Hose Assy	1

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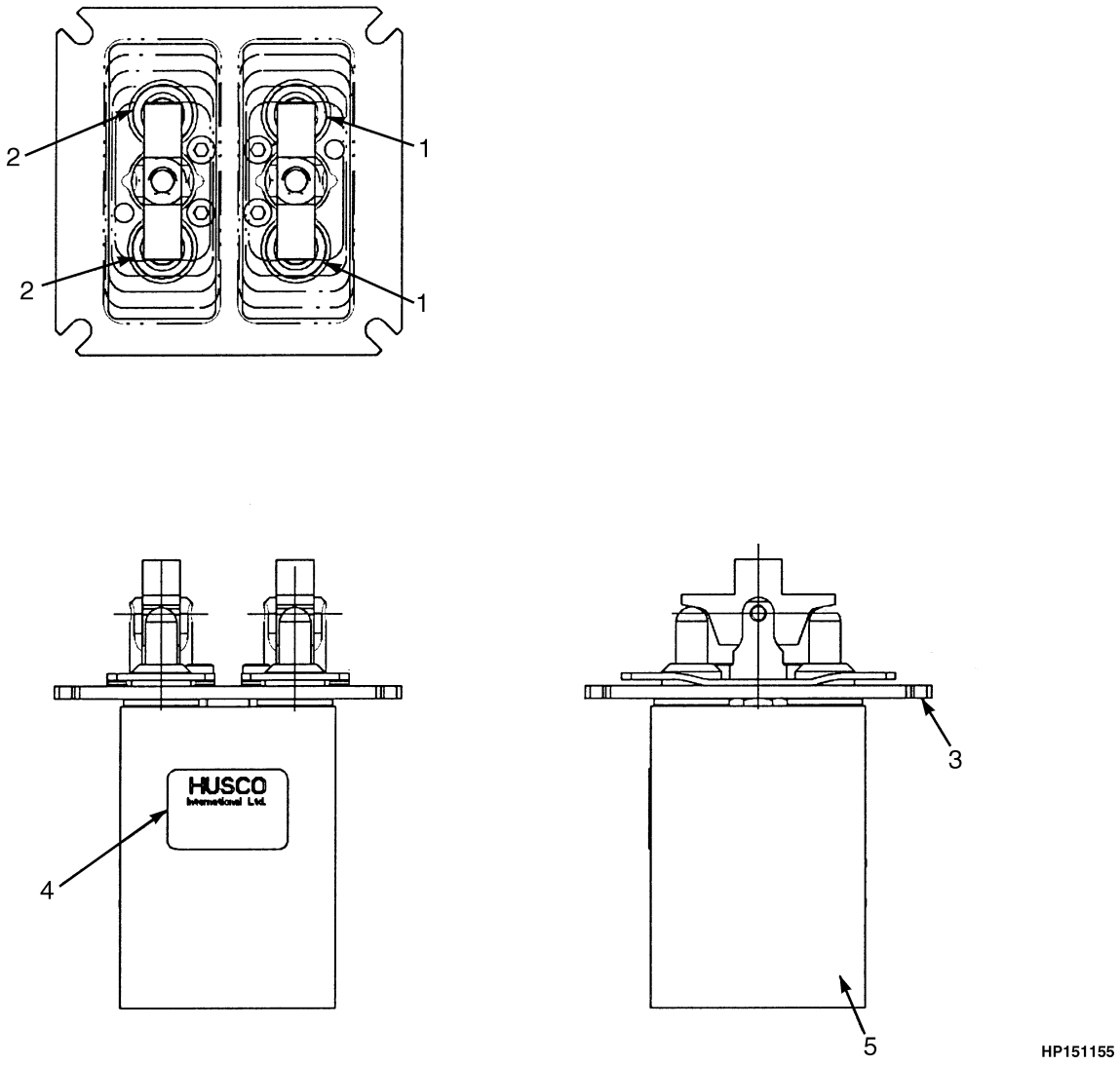
PILOT SUPPLY VALVE ASSEMBLY (FIGURE 9-21)
LEVERS



ITEM	PART NO.	DESCRIPTION	QTY
	1539567	Pilot Valve Assembly	1
1	1643577	Capsule Assy (Tilt) (☞Figure 9-29).....	2
2	1643576	Capsule Assy (Raise and Lower) (☞Figure 9-28).....	2
3	1643573	Joint Mechanism (Levers) (☞Figure 9-23).....	1
4	. . . . .	Name Plate	1
5	. . . . .	Housing	1

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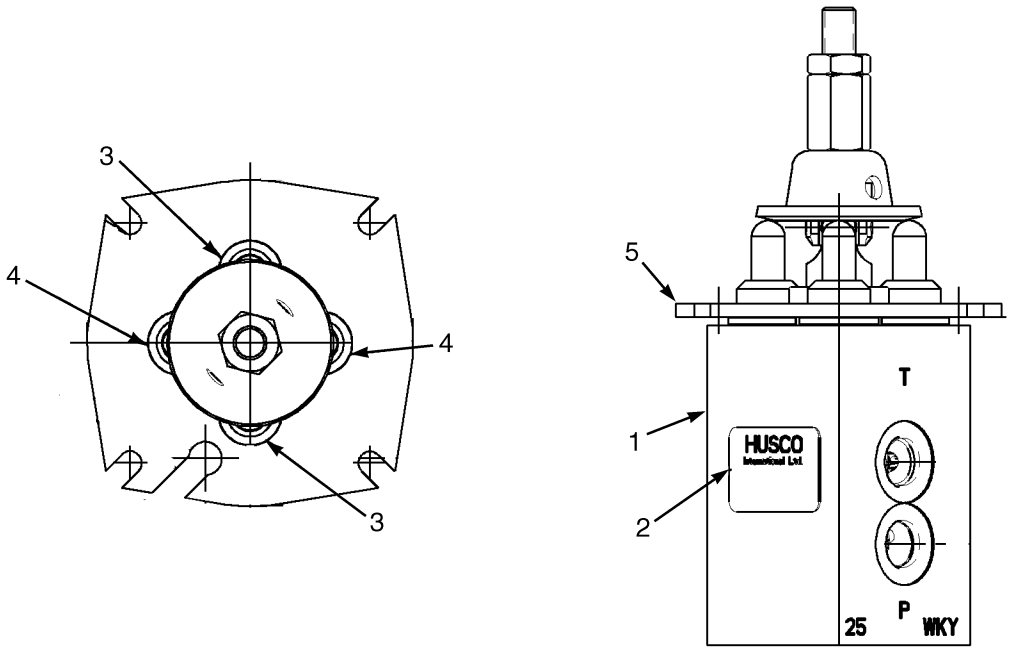
PILOT SUPPLY VALVE ASSEMBLY (FIGURE 9-22)
JOYSTICK



HP151164

ITEM	PART NO.	DESCRIPTION	QTY
	1601859	Pilot Valve Assembly	1
1	. . . . .	Pilot Valve Housing	1
2	. . . . .	Name Plate	1
3	1643576	Capsule Assy (Raise and Lower) (☞Figure 9-28).....	2
4	1643577	Capsule Assy (Tilt) (☞Figure 9-29).....	2
5	1643614	Joint Mechanism (Joystick) (☞Figure 9-24).....	1

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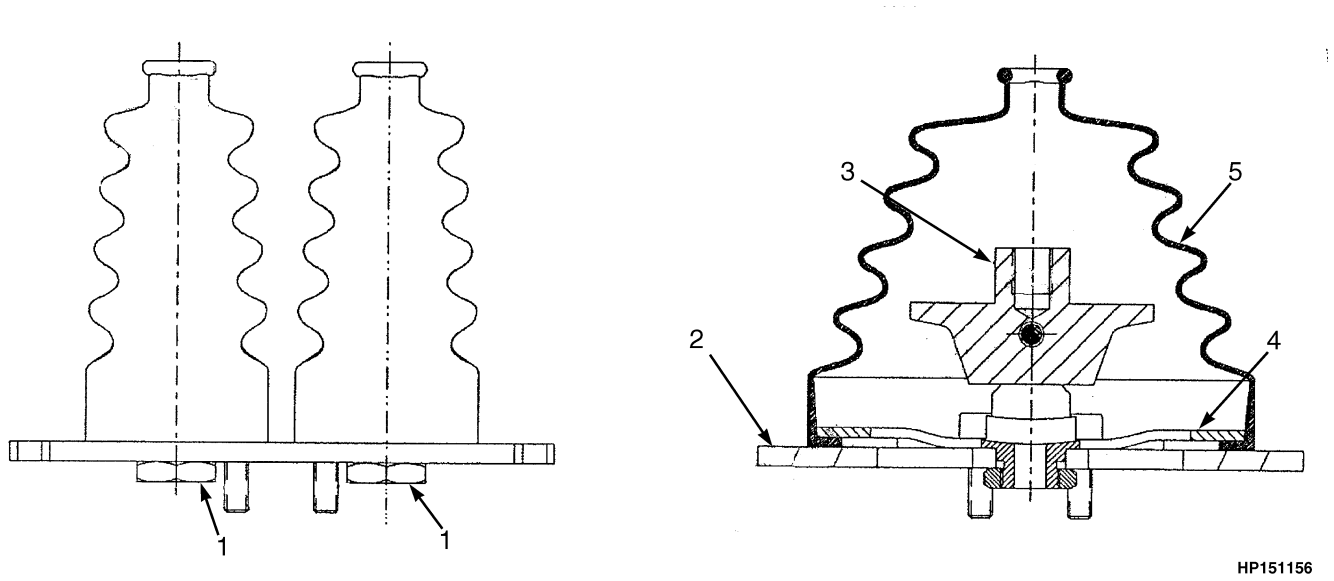
JOINT MECHANISM ASSEMBLY (FIGURE 9-23)
LEVERS

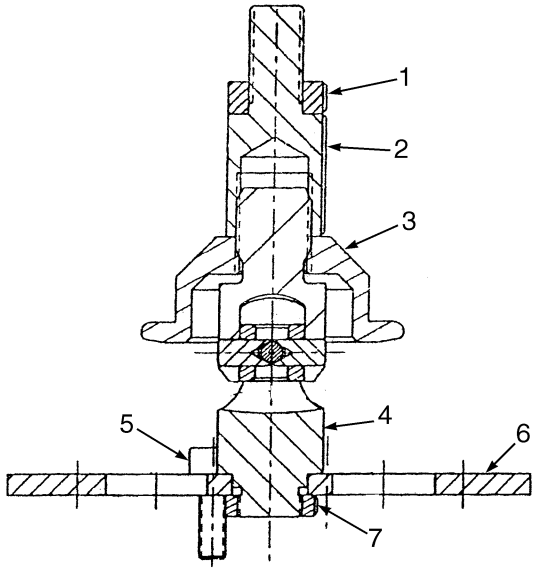


ITEM	PART NO.	DESCRIPTION	QTY
	1643573	Joint Mechanism (Levers)	1
1	1643578	Nut (Special)	2
2	1643583	Mounting Plate	1
3	1643580	Universal Joint	2
4	1643581	Plate	2
5	1643582	Boot	2
	a 1643579	Capscrew	4

FOOTNOTES:

a Not Illustrated

JOINT MECHANISM ASSEMBLY (FIGURE 9-24)
JOYSTICK



HP151161

ITEM	PART NO.	DESCRIPTION	QTY
	1643614	Joint Mechanism (Joystick)	1
1	1643619	Nut	1
2	1643618	Adapter	1
3	1643617	Plate	1
4	1643616	Universal Joint	1
5	1643579	Capscrew	3
6	1643615	Mounting Plate	1
7	1643578	Nut (Special)	1

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NOTES

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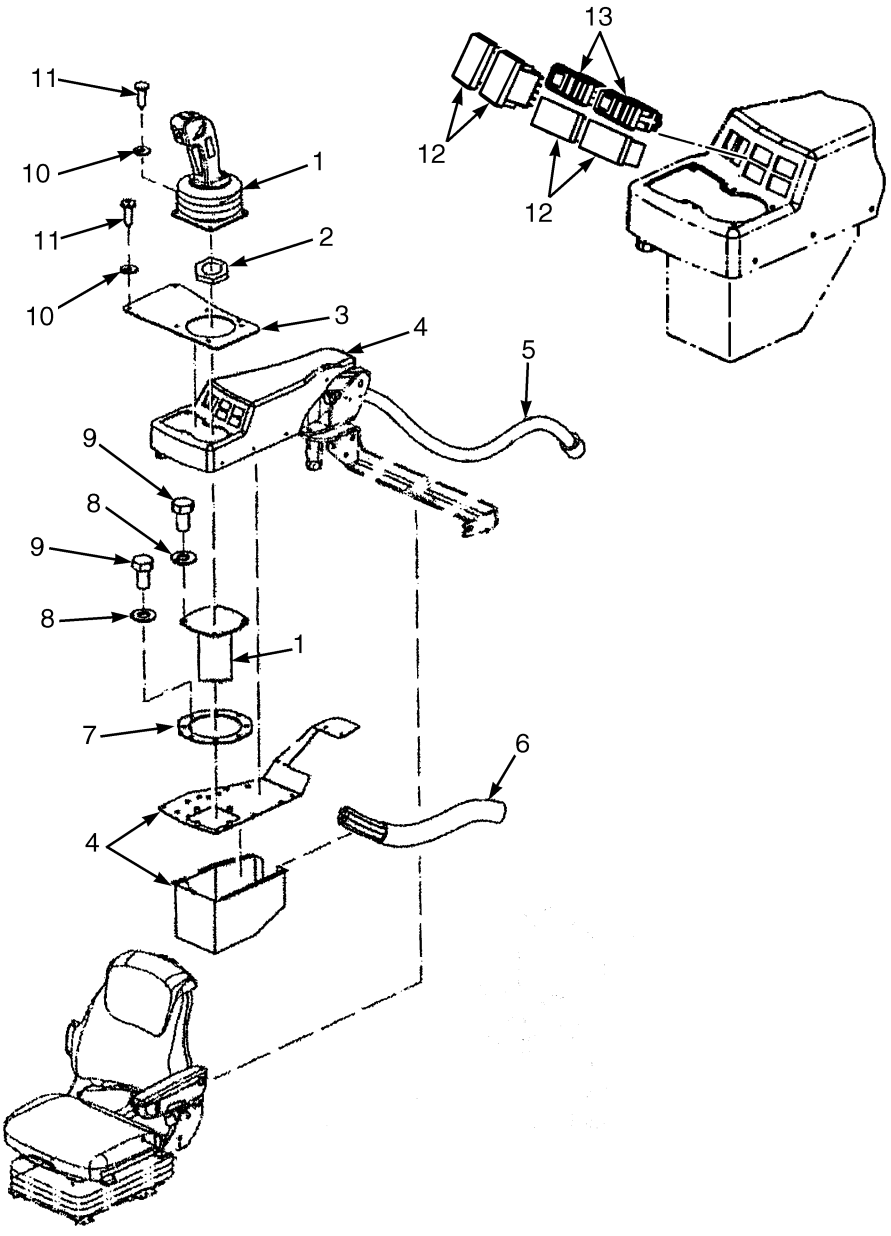
JOYSTICK INSTALLATION (FIGURE 9-25)



HP151228

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JOYSTICK INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
1	1539568	Joystick Assembly (☞Figure 9-26)	1
2	1571810	Nut	1
3	1623282	Plate	1
4	1634996	Armrest Assembly (Joystick)	1
5	1545176	Wire Harness (Armrest) (Tier III Engine)	1
5	4023000	Wire Harness (Armrest) (Tier IV Interim Engine)	1
6	1644694	Kit-Hose (☞Figure 9-27)	1
7	1623283	Gasket (Adapter)	1
8	320156	Washer	8
9	292500	Capscrew	8
10	1492140	Washer	6
11	1498357	Screw	6
12	1498383	Plug (Switch)	4
13	2054005	Switch	2

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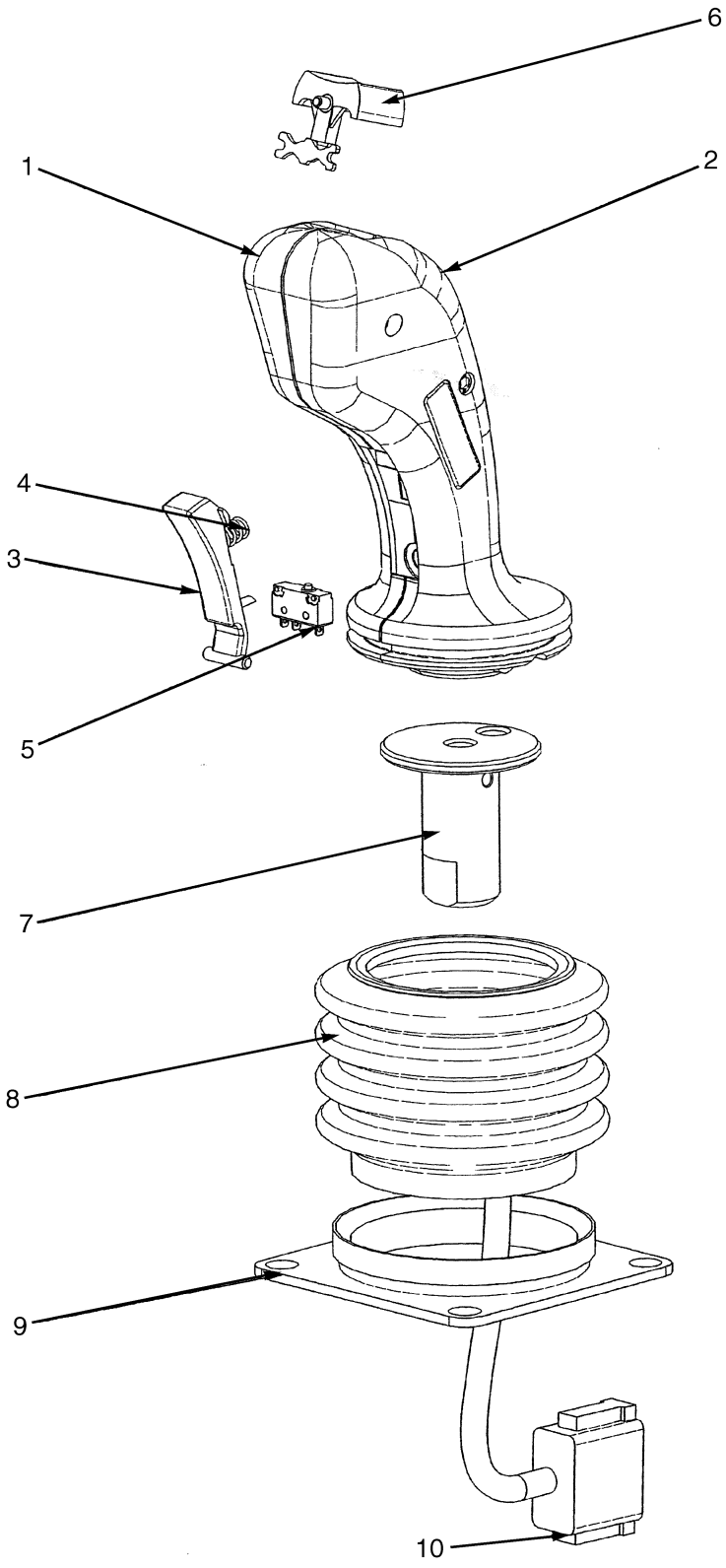
JOYSTICK ASSEMBLY (FIGURE 9-26)



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JOYSTICK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1539568	Joystick Assembly	1
1	1662491	Grip (RH)	1
2	1662490	Grip (LH)	1
3	1584824	Trigger	1
4	1584825	Spring	1
5	1584826	Microswitch	1
6	1662489	Switch	1
7	1662132	Receptacle	1
8	1584846	Boot	1
9	1662131	Mounting Plate	1
10	1662130	Connector	1

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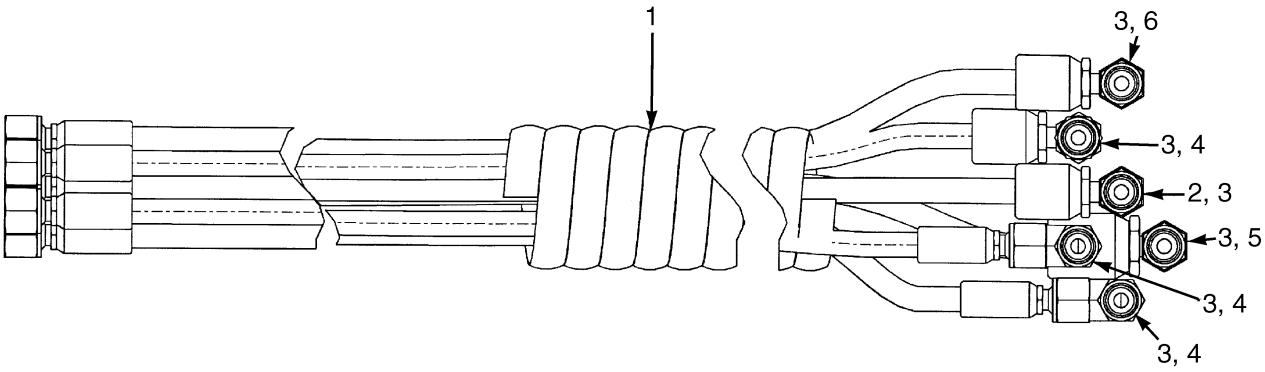
JOYSTICK HOSE ASSEMBLY (FIGURE 9-27)



HP151159

ITEM	PART NO.	DESCRIPTION	QTY
	1644694	Kit-Hose	1
1	1555981	Hose Guard	1
2	1644691	Hose Assy	1
3	1486740	Fitting	6
3	~~6992657~~		
	265787	O-Ring	1
3	16485	O-Ring	1
4	1644690	Hose Assy	3
5	1644692	Hose Assy	1
6	1658940	Hose Assy	1

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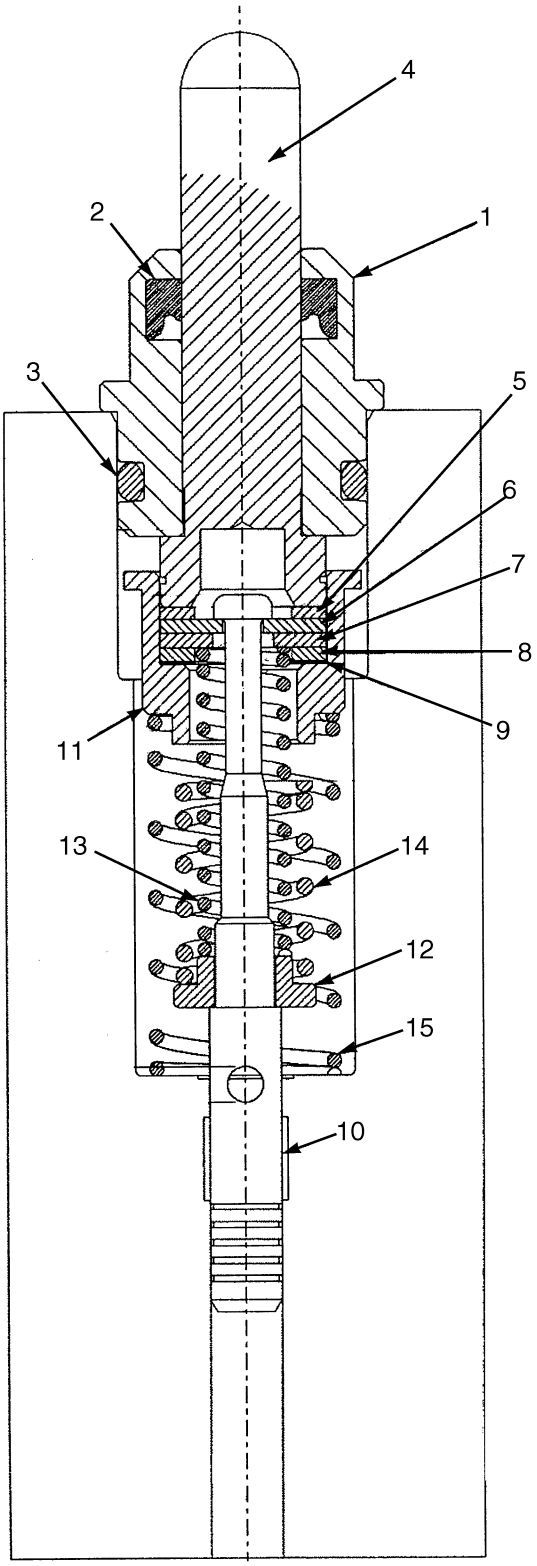
CAPSULE ASSEMBLY (FIGURE 9-28)
RAISE AND LOWER — JOYSTICK AND LEVERS



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CAPSULE ASSEMBLY
RAISE AND LOWER – JOYSTICK AND LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
	1643576	Capsule Assy (Raise and Lower)	1
1	1643588	Bearing	1
2	1643589	Seal (Plunger)	1
3	1643590	O-Ring	1
4	1643591	Plunger	1
5	1643592	Washer	1
6	1643593	Retaining Ring	1
7	1643594	Washer	1
8	1643595	Washer	1
9	1643596	Washer	1
10	1643597	Spool	1
11	1643598	Spring Seat	1
12	1643599	Spring Seat	1
13	1643600	Spring	1
14	1643601	Spring	1
15	1643602	Spring	1

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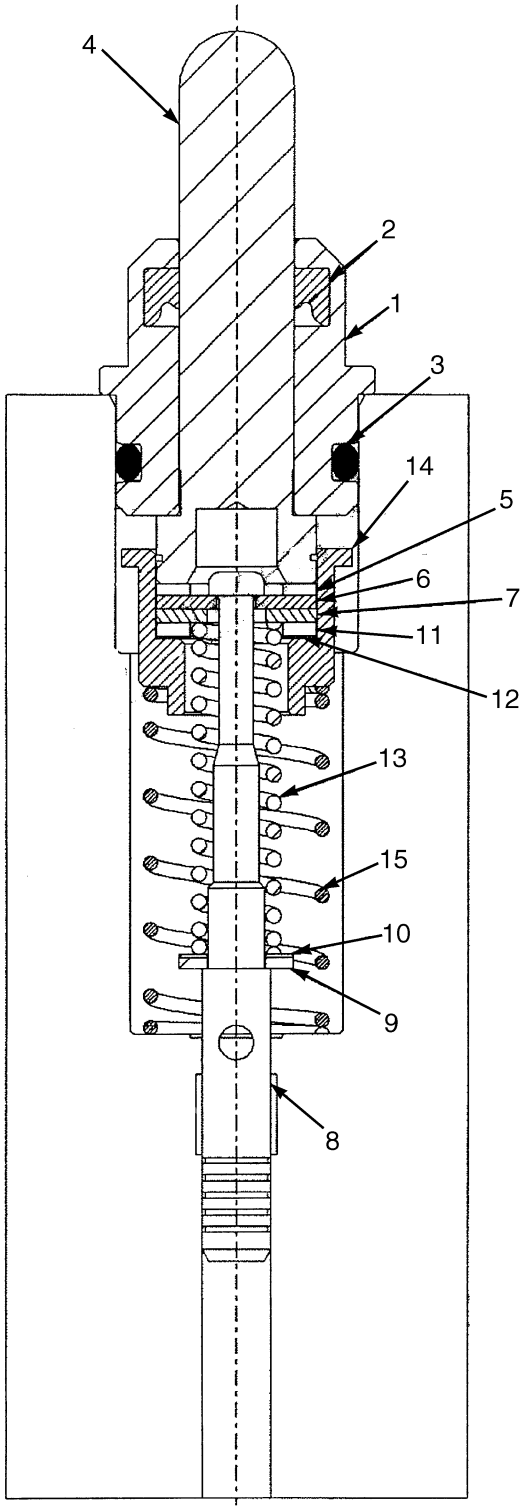
CAPSULE ASSEMBLY (FIGURE 9-29)
TILT — JOYSTICK AND LEVERS



HP151158

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CAPSULE ASSEMBLY
TILT – JOYSTICK AND LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
	1643577	Capsule Assy (Tilt)	1
1	1643588	Bearing	1
2	1643589	Seal (Plunger)	1
3	1643590	O-Ring	1
4	1643591	Plunger	1
5	1643592	Washer	1
6	1643593	Retaining Ring	1
7	1643594	Washer	1
8	1643597	Spool	1
9	1643606	Washer	1
10	1643607	Washer	1
11	1643595	Washer	1
12	1643596	Washer	1
13	1643608	Spring	1
14	1643598	Spring Seat	1
15	1643602	Spring	1

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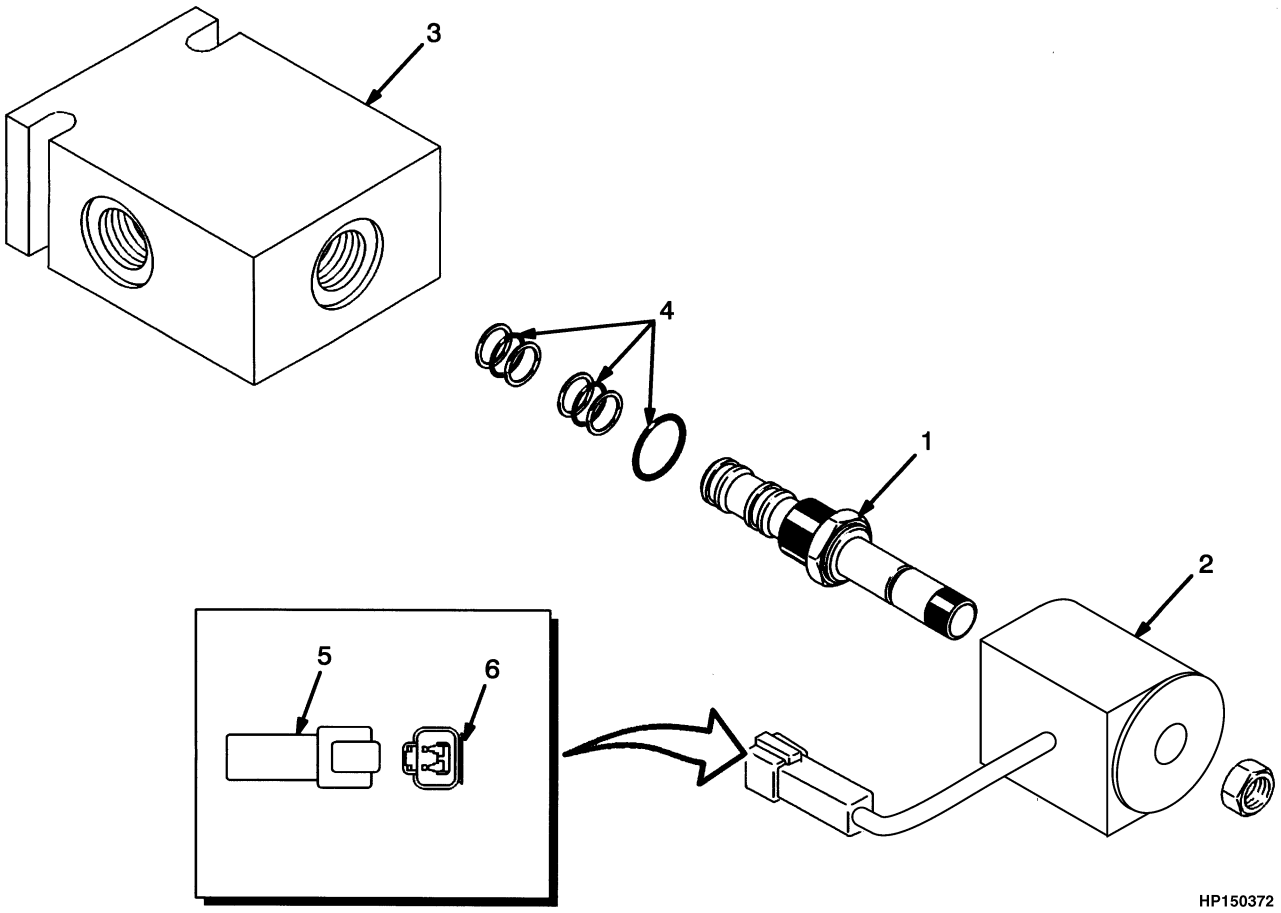
SOLENOID VALVE (FIGURE 9-30)
TIER IV INTERIM ENGINE



ITEM	PART NO.	DESCRIPTION	QTY
	1383517	Solenoid Valve Assembly	1
1	1388379	Actuator	1
2	1388380	Coil	1
3	1343161	Body	1
4	371172	Kit-Seal	1
5	1330409	Connector	1
6	1330414	Connector (Secondary Lock)	1

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10 MAST-TWO STAGE VISTA

SECTION 10
MAST-TWO STAGE VISTA

DESCRIPTION	PAGE
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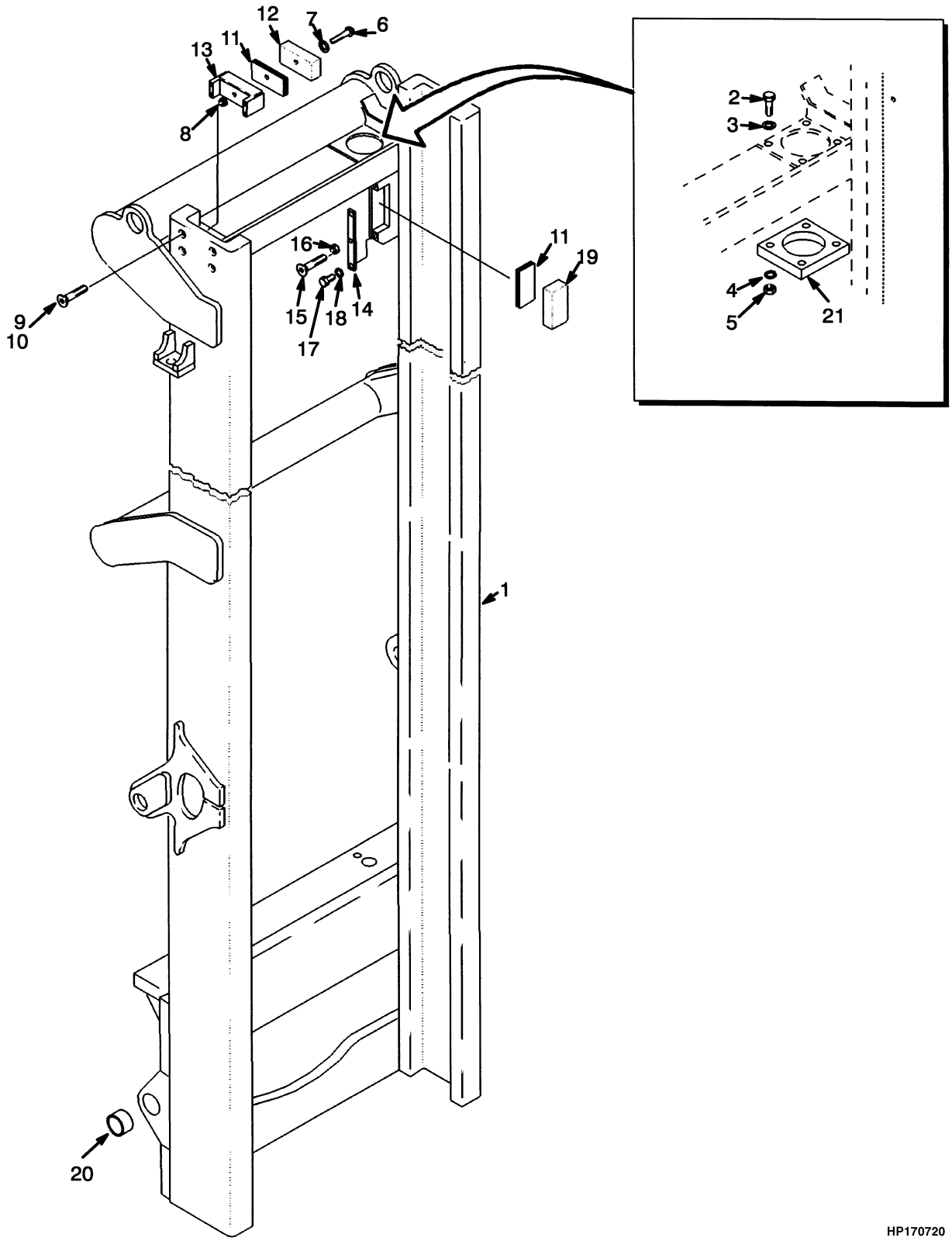
OUTER MAST (FIGURE 10-1)



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OUTER MAST

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1613232	1613233	1613234	1613235
1	Outer Mast	1613397	1613398	1613399	1613400

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1613236	1613237
1	Outer Mast	1613401	1613402

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1603867	1603868	1603869	1603870
1	Outer Mast	1370084	1370085	1370086	1370087

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1603871	1603872
1	Outer Mast	1370088	1370089

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Outer Mast	1
2	292531	Capscrew	8
3	320161	Washer	8
4	292683	Lockwasher	8
5	~~1318914~~		
	216877	Nut	8

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OUTER MAST

ITEM	PART NO.	DESCRIPTION	QTY
6	1364272	Capscrew	4
7	320159	Washer	8
8	316836	Nut	4
9	292517	Capscrew	4
10	321197	Loctite	AR
11	1325797	Shim (0.06 in.)	AR
11	1325798	Shim (0.002 in.)	AR
11	1372962	Shim (0.12 in.)	AR
12	1325785	Bearing	4
13	1325795	Bracket Wldmt	4
14	1372958	Plate	2
15	302109	Setscrew	2
16	296128	Nut	2
17	287854	Capscrew	4
18	~~388049~~ 292682	Lockwasher	4
19	1372961	Block	2
20	321177	Bushing	2
21	1391890	Retainer (H400HD, HDS)	1
21	1391889	Retainer (H450HD, HDS)	1

FOOTNOTES:

a Refer to Table

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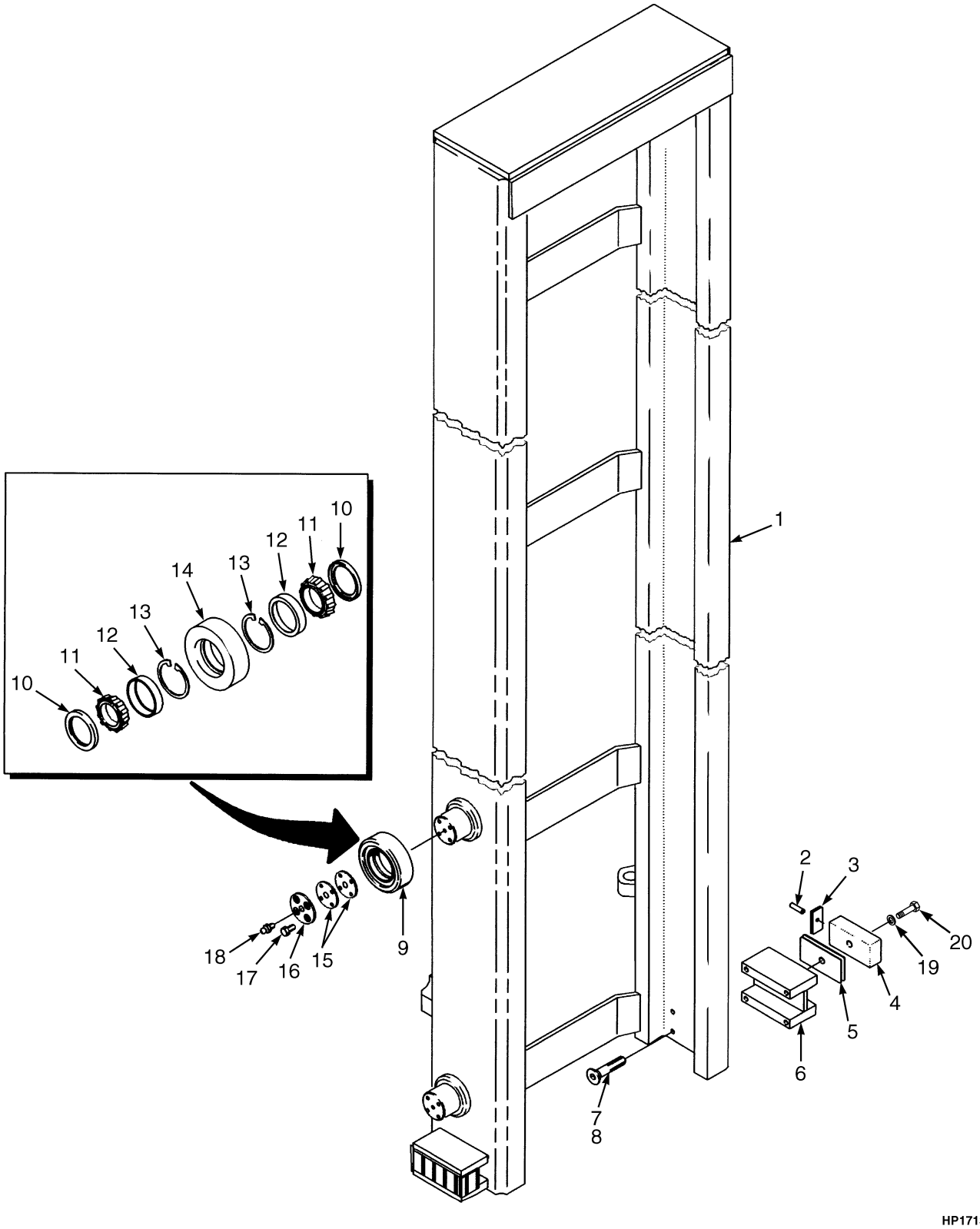
INNER MAST (FIGURE 10-2)



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INNER MAST

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1613232	1613233	1613234	1613235
1	Inner Mast	1372814	1372815	1372816	1372817

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1613236	1613237
1	Inner Mast	1372818	1372819

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1603867	1603868	1603869	1603870
1	Inner Mast	1373115	1373116	1373117	1373118

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1603871	1603872
1	Inner Mast	1373119	1373120

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Inner Mast	1
2	302468	Roll Pin	2
3	1373025	Shim	AR
3	1373026	Shim	AR
3	1373027	Shim	AR
4	1373039	Bearing	2

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INNER MAST

ITEM	PART NO.	DESCRIPTION	QTY
5	1373028	Shim	AR
5	1373029	Shim	AR
5	1373030	Shim	AR
6	1373049	Bracket Wldmt	2
7	296255	Capscrew	4
8	321197	Loctite	AR
9	1325765	Load Roller	4
10	1325761	Shield	2
11	276228	Bearing Cone (Tapered Roller) (3.35 in.)	2
12	392197	Bearing Cup (Tapered Roller) (5.12 in.)	2
13	47478	Snap Ring	2
14	1325756	Roller	1
15	1325763	Shim	AR
15	1325764	Shim	AR
15	1373329	Shim	AR
16	1609687	Cap	4
17	293644	Capscrew	16
18	16001	Grease Fitting	4
19	320159	Washer	8
20	1364272	Capscrew	4

FOOTNOTES:

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MAIN LIFT (FIGURE 10-3)
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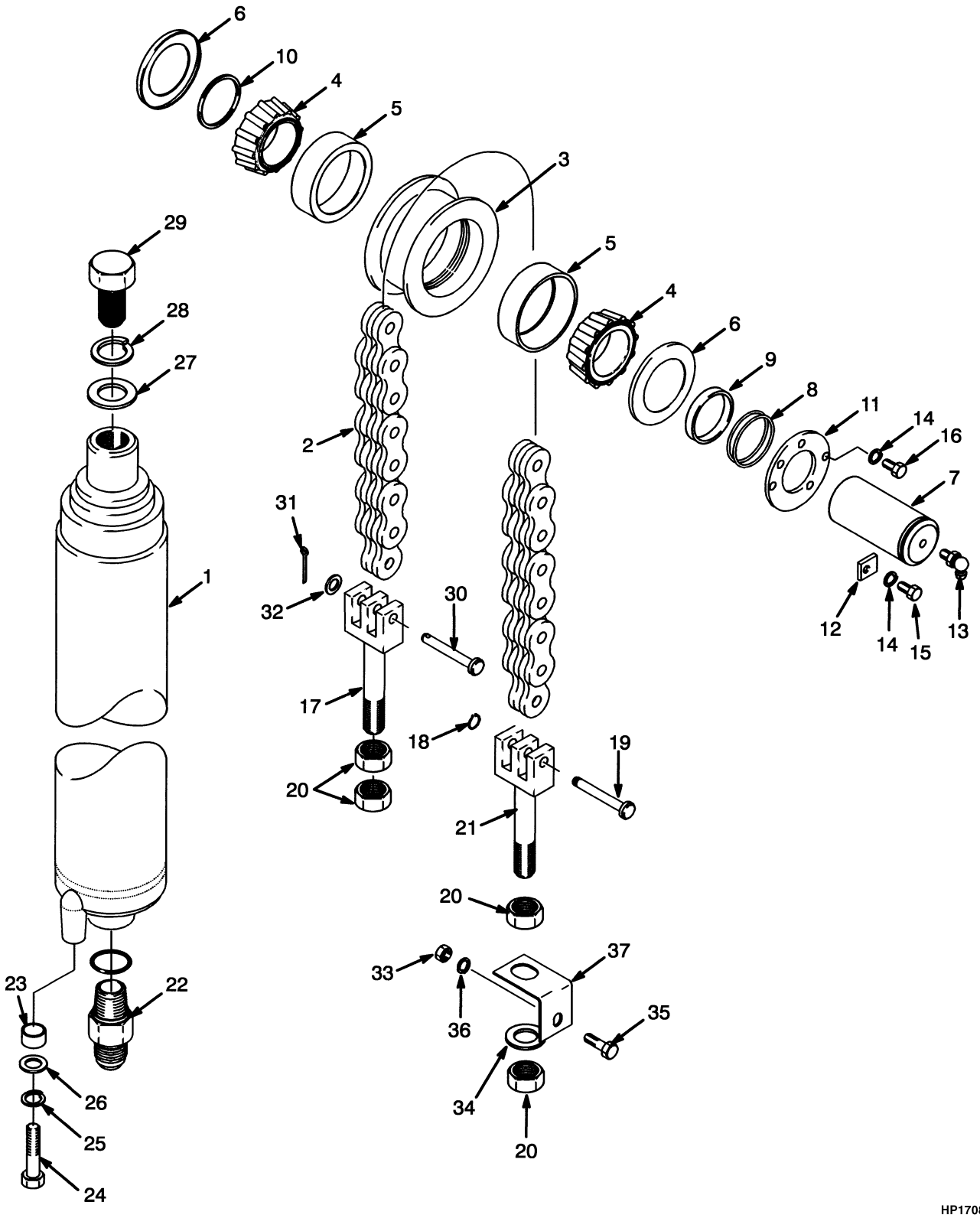

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MAIN LIFT
PAGE 1 OF 2

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1613232	1613233	1613234	1613235
2	Chain	1373181	1373180	330009	330010

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1613236	1613237
2	Chain	330011	1373183

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1603867	1603868	1603869	1603870
2	Chain	330006	1455468	1373358	330010

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1603871	1603872
2	Chain	1373359	1373360

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Lift Cylinder (☞Figure 10-14, ☞Figure 10-15)	2
2	**a**	Chain	2
3	1382449	Chain Sheave	2
4	392198	Bearing Cone	4
5	392197	Bearing Cup (Tapered Roller) (5.12 in.)	4

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MAIN LIFT
PAGE 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
6	1325761	Shield	4
7	1325766	Shaft	2
8	1325781	Shim	AR
8	1325782	Shim	AR
8	1325783	Shim	AR
9	1325767	Spacer	2
10	1325768	Spacer	2
11	1455951	Cover Plate	2
12	1325784	Retainer Plate	2
13	16015	Grease Fitting	2
14	292683	Lockwasher	10
15	292527	Capscrew	8
16	~~4048814~~		
	292528	Capscrew	2
17	1455432	Chain Anchor	2
18	1194251	Snap Ring	4
19	334886	Pin	2
20	136405	Nut	8
21	1459350	Chain Anchor	2
22	2043536	Lowering Control Valve (H400HD, HDS)	1
22	16983	O-Ring	1
22	2043538	Lowering Control Valve (H450HD, HDS)	1
22	244167	O-Ring	1
23	1300165	Spacer (H400HD, HDS)	2
24	292515	Capscrew (H400HD, HDS)	2
24	136985	Capscrew (H450HD, HDS)	2
25	~~388049~~		
	292682	Lockwasher	2
26	1303391	Washer	2
27	15181	Washer	2
28	292687	Lockwasher	2
29	292580	Capscrew	2
30	1455467	Pin	2
31	15244	Cotter Pin	2
32	15136	Washer	2
33	~~1318914~~		
	216877	Nut	2
34	221786	Washer	4
35	287837	Capscrew	2
36	292683	Lockwasher	2
37	1460265	Bracket	2

FOOTNOTES:

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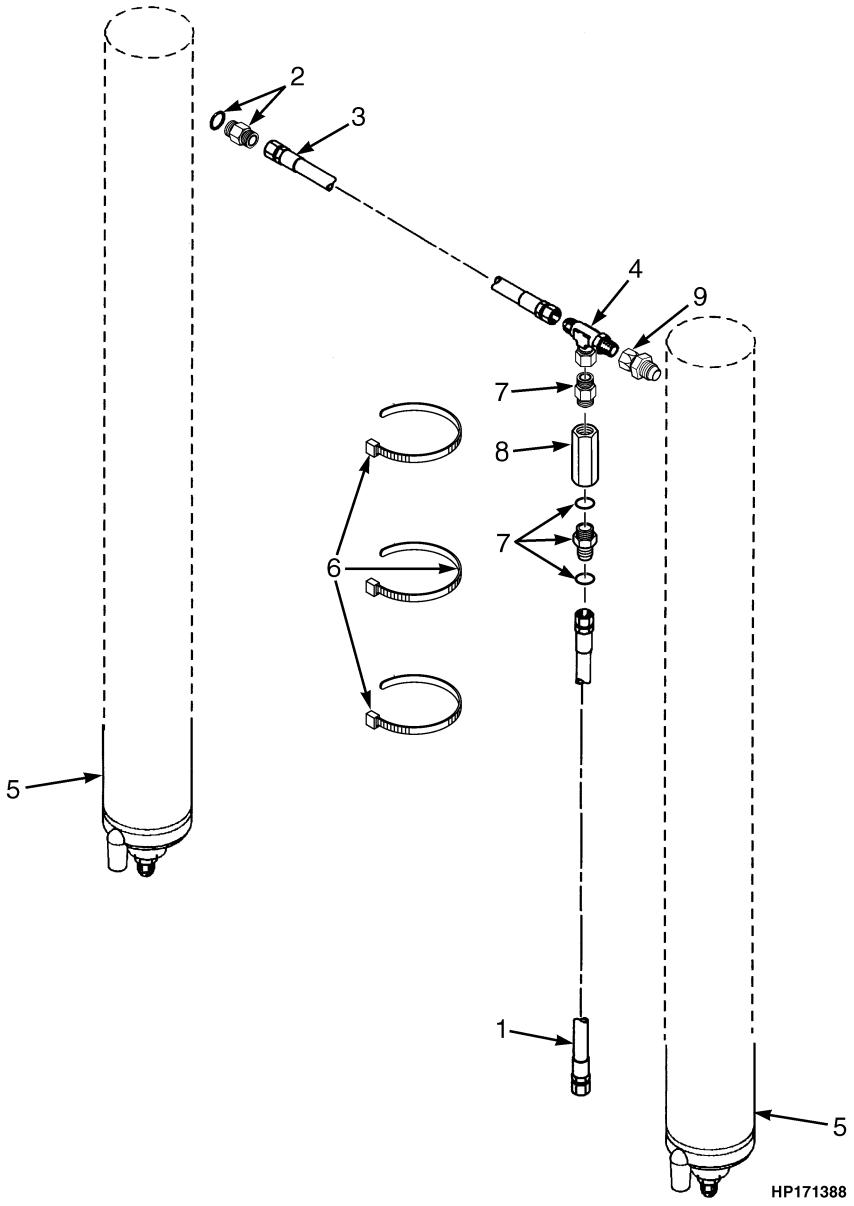
MAIN LIFT (FIGURE 10-4)
PAGE 2 OF 2



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MAIN LIFT
PAGE 2 OF 2

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1613232	1613233	1613234	1613235
1	Hose Assy	1604026	1604027	1604028	1604029

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1613236	1613237
1	Hose Assy	1604030	1604031

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1603867	1603868	1603869	1603870
1	Hose Assy	1604026	1604027	1604028	1604029

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1603871	1603872
1	Hose Assy	1604030	1604031

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Hose Assy	1
2	1486740	Fitting	1
2	16481	O-Ring	1
2	~~1450764~~		
	16486	O-Ring	1

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MAIN LIFT
PAGE 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
3	1604032	Hose Assy	1
4	1488464	Fitting	1
4	16483	O-Ring	1
4	~~6992657~~		
	265787	O-Ring	1
5	. . . . .	Lift Cylinder (☞Figure 10-14, ☞Figure 10-15)	1
6	273775	Strap Clamp	3
7	1486742	Fitting	2
7	16484	O-Ring	1
7	1527816	O-Ring	1
8	1595723	Check Valve	1
9	1549715	Fitting	1
9	~~1495111~~		
	1527813	O-Ring	1

FOOTNOTES:

a Refer to Table

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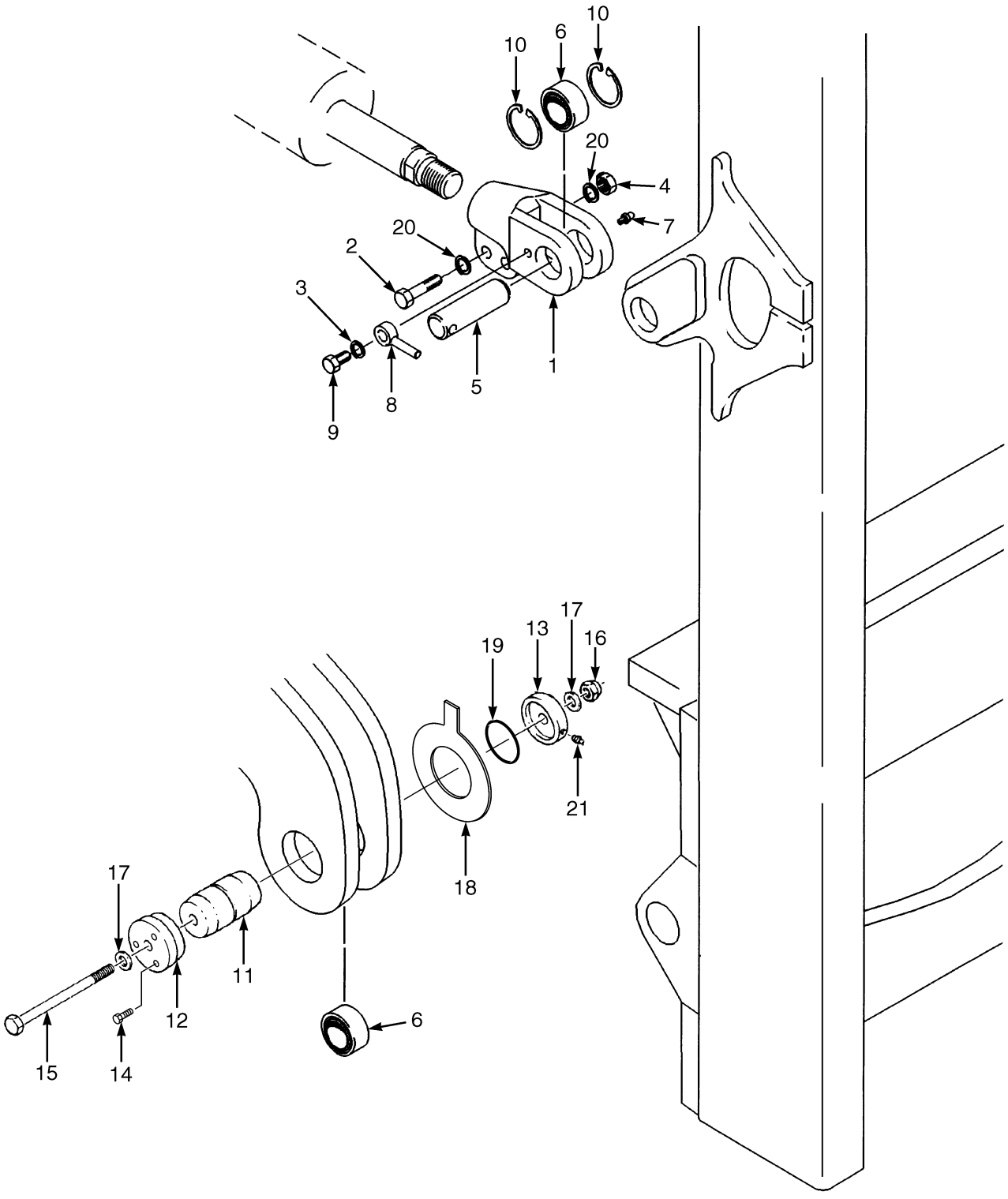
MAST INSTALLATION (FIGURE 10-5)



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MAST INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
1	1391452	Rod End	2
2	293698	Capscrew	4
3	320165	Washer	4
4	~~1380266~~		
	292658	Nut	4
5	1391522	Pin	4
6	1391500	Bushing	4
7	16001	Grease Fitting	4
8	1391523	Anchor	4
9	292562	Capscrew	4
10	67551	Snap Ring	4
11	**b c** 1321890	Pin	2
11	**a d** 4050304	Pin	2
12	**b c** 1493562	Cap	2
12	**a d** 4050305	Cap	2
13	**b c** 1491763	Cap	2
13	**a d** 4050819	Cap	2
14	**b c** 18191	Capscrew	6
14	**a d** 296023	Capscrew	6
15	**b c** 1355031	Capscrew	2
15	**a d** 1672380	Capscrew	2
16	**b c** 248320	Wheel Nut	2
16	**a d** 302405	Locknut	2
17	**b c** 221777	Washer	4
17	**a d** ~~4020900~~		
	320169	Washer	4
18	1492331	Shim	AR
19	39679	O-Ring	2
20	296426	Washer	8
21	**b c** 16001	Grease Fitting	2
21	**a d** 887068	Grease Fitting	2

FOOTNOTES:

a This is a Metric part. Hanger pins and hardware have been updated from Imperial to Metric. Be sure to follow proper torque and shimming instructions.

b This is an Imperial part. Hanger pins and hardware have been updated from Imperial to Metric. Be sure to follow proper torque and shimming instructions.

c → S/N B236E01605K

d S/N B236E01606K →

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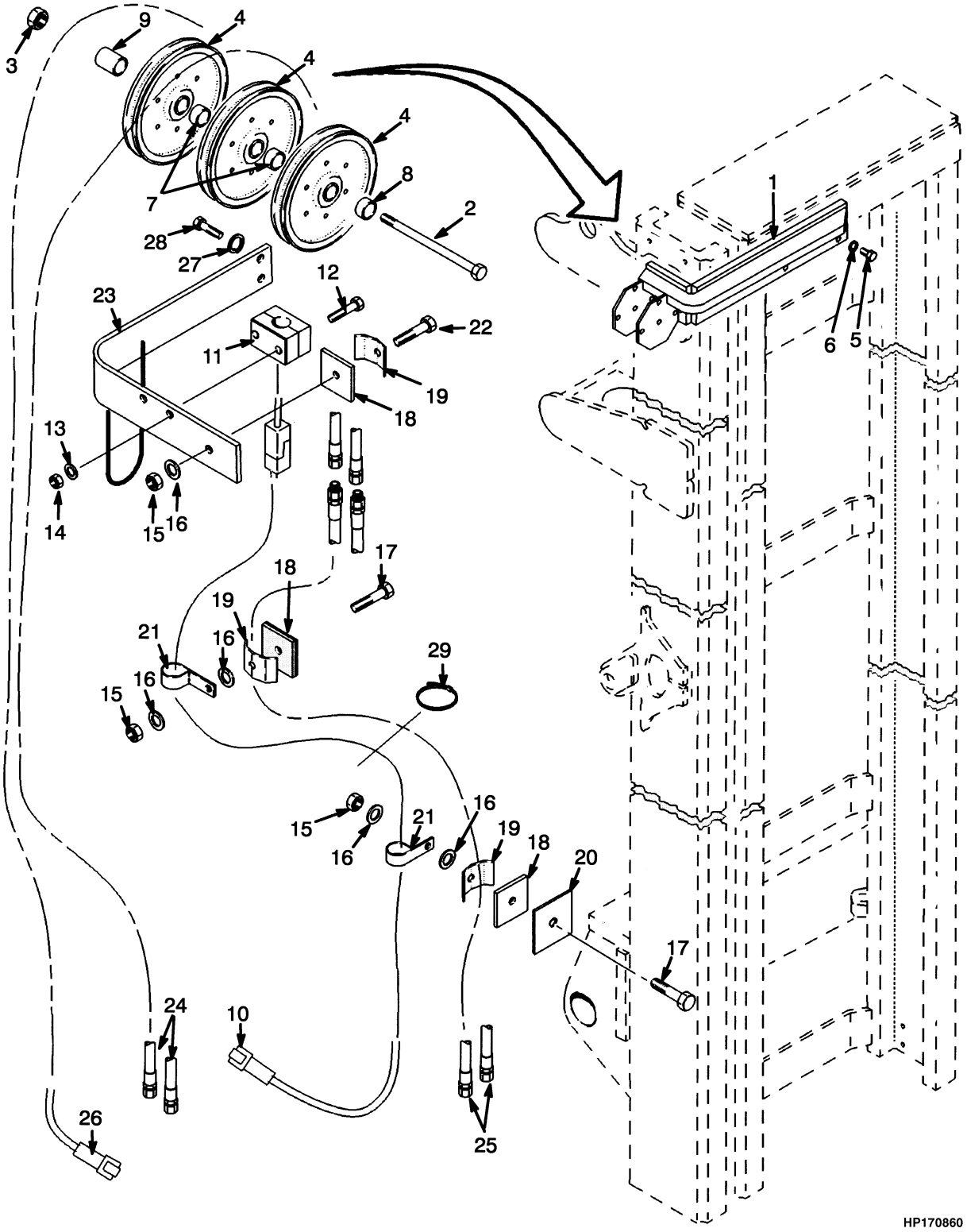
HEADER HOSES (FIGURE 10-6)



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HEADER HOSES

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1613232	1613233	1613234	1613235
10	Wire Harness (Front End Equipment)	1677209	1677210	1677211	1677212
24	Hose Assy	1613214	1613217	1613220	1613223
25	Hose Assy	1613215	1613215	1613221	1613224
26	Wire Harness (Front End Equipment)	1452036	1452037	1452038	1452039

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1613236	1613237
10	Wire Harness (Front End Equipment)	1677213	1677214
24	Hose Assy	1606165	1613229
25	Hose Assy	1606171	1613230
26	Wire Harness (Front End Equipment)	1452040	1452046

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Mast Assy	1603867	1603868	1603869	1603870
10	Wire Harness (Front End Equipment)	1677215	1677216	1677217	1677213
24	Hose Assy	1606179	1606176	1606173	1606170
25	Hose Assy	1606180	1606177	1606174	1606171
26	Wire Harness (Front End Equipment)	1452042	1452043	1452044	1452045

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HEADER HOSES

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Mast Assy	1603871	1603872
10	Wire Harness (Front End Equipment)	1677218	1677219
24	Hose Assy	1606167	1606165
25	Hose Assy	1606168	1606163
26	Wire Harness (Front End Equipment)	1452046	1452040

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	1452256	Bracket	1
2	14999	Capscrew	4
3	221357	Locknut	4
4	189451	Hose Sheave	3
5	292581	Capscrew	4
6	292687	Lockwasher	4
7	280610	Spacer	2
8	1301650	Spacer	1
9	815932	Spacer	1
10	**a**	Wire Harness (Front End Equipment)	1
11	1391418	Clamp	1
12	160549	Capscrew	2
13	15154	Lockwasher	2
14	221703	Nut	2
15	300937	Nut	3
16	320161	Washer	5
17	292535	Capscrew	1
18	138929	Plate	3
19	343590	Clamp	3
20	1338037	Plate	2
21	391484	Clamp (Insulated)	2
22	292535	Capscrew	2
23	1373215	Bracket	1
24	**a**	Hose Assy	2
25	**a**	Hose Assy	2
26	**a**	Wire Harness (Front End Equipment)	1
27	292683	Lockwasher	2
28	~~4048814~~		
	292528	Capscrew	2
29	397676	Strap Clamp	1

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FOOTNOTES:

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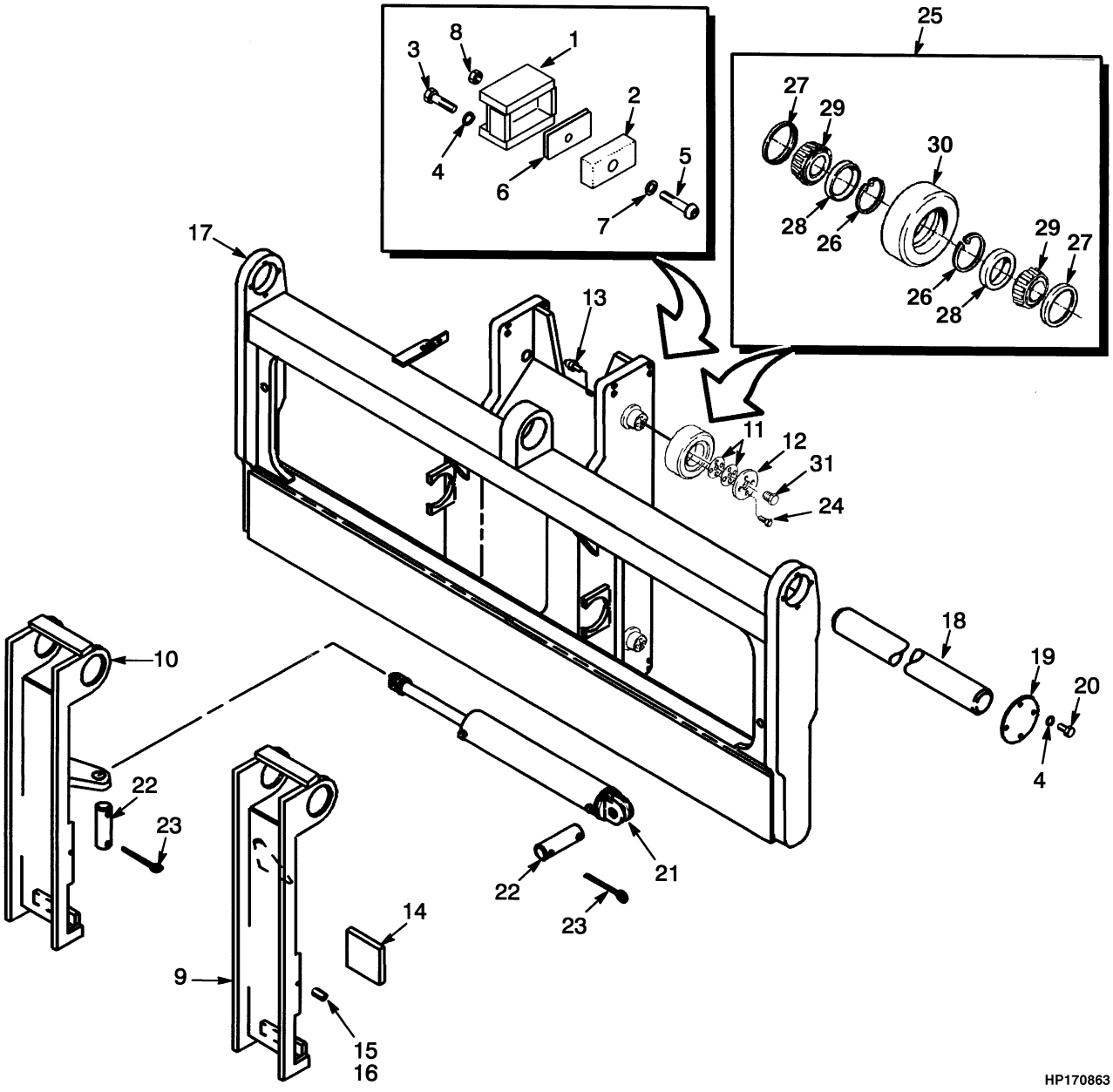
CARRIAGE (FIGURE 10-7)
PIN TYPE



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CARRIAGE
PIN TYPE

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1614864	Carriage (Two Function)	1	..
	1605451	Carriage (Two Function)	..	1
	1614865	Carriage (Three Function)	1	..
	1605452	Carriage (Three Function)	..	1
	1614866	Carriage (Four Function)	1	..
	1605453	Carriage (Four Function)	..	1
	1614867	Carriage (Five Function)	1	..
	1605454	Carriage (Five Function)	..	1
1	1325795	Bracket Wldmt	4	4
2	1325785	Bearing	4	4
3	292529	Capscrew	16	16
4	292683	Lockwasher	24	24
5	1364272	Capscrew	4	4
6	1325797	Shim (0.06 in.)	AR	AR
6	1325798	Shim (0.002 in.)	AR	AR
6	1372962	Shim (0.12 in.)	AR	AR
7	320159	Washer	8	8
8	316836	Nut	4	4
9	1384489	Guide (LH) (LH)	..	1
9	1384497	Guide (LH) (LH)	1	..
10	1384490	Guide (RH) (RH)	..	1
10	1384498	Guide (RH) (RH)	1	..
11	1325763	Shim	AR	AR
11	1325764	Shim	AR	AR
11	1373329	Shim	AR	AR
12	1609687	Cap	4	4
13	16001	Grease Fitting	6	6
14	1373176	Block	2	2
15	302097	Setscrew	4	4
16	136687	Nut	4	4
17	1373204	Carriage Wldmt	..	1
17	1373300	Carriage Wldmt	1	..
18	1373175	Pin	..	2
18	1384483	Pin	2	..
19	1373196	Plate	2	2
20	292527	Capscrew	8	8
21	. . . . .	Side-Shift Cylinder (☞Figure 10-10)	2	2
22	1373216	Pin	4	4
23	15237	Cotter Pin	8	8
24	293644	Capscrew	16	16
25	1325765	Load Roller	4	4
26	47478	Snap Ring	2	2
27	1325761	Shield	2	2
28	392197	Bearing Cup (Tapered Roller) (5.12 in.)	2	2
29	276228	Bearing Cone (Tapered Roller) (3.35 in.)	2	2

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CARRIAGE
PIN TYPE

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
30	1325756	Roller	1	1
31	14349	Fitting (Pipe Plug)	4	4

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NOTES

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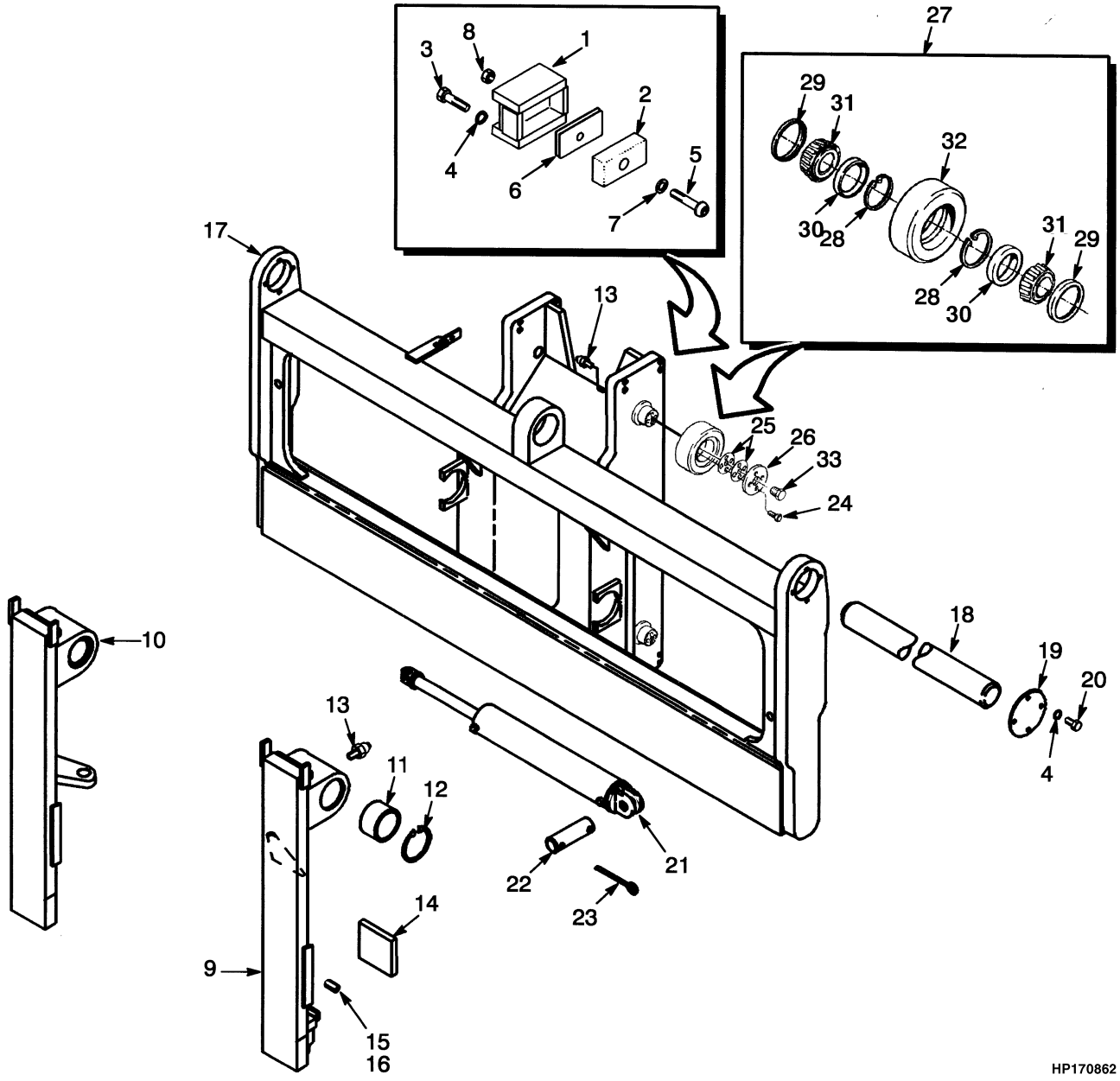
CARRIAGE (FIGURE 10-8)
QUICK DISCONNECT TYPE



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CARRIAGE
QUICK DISCONNECT TYPE

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1614860	Carriage (Two Function)	1	..
	1605446	Carriage (Two Function)	..	1
	1614861	Carriage (Three Function)	1	..
	1605447	Carriage (Three Function)	..	1
	1614862	Carriage (Four Function)	1	..
	1605449	Carriage (Four Function)	..	1
	1614863	Carriage (Five Function)	1	..
	1605450	Carriage (Five Function)	..	1
1	1325795	Bracket Wldmt	4	4
2	1325785	Bearing	4	4
3	292529	Capscrew	16	16
4	292683	Lockwasher	24	24
5	1364272	Capscrew	4	4
6	1325797	Shim (0.06 in.)	AR	AR
6	1325798	Shim (0.002 in.)	AR	AR
6	1372962	Shim (0.12 in.)	AR	AR
7	320159	Washer	8	8
8	316836	Nut	4	4
9	1373312	Guide (LH) (LH)	1	..
9	1373203	Guide (LH) (LH)	..	1
10	1373311	Guide (RH) (RH)	1	..
10	1373212	Guide (RH) (RH)	..	1
11	1373177	Bushing	4	4
12	~~1373284~~			
	334475	Snap Ring	4	4
13	16001	Grease Fitting	6	6
14	1373176	Block	2	2
15	302097	Setscrew	4	4
16	136687	Nut	4	4
17	1373300	Carriage Wldmt	1	..
17	1373204	Carriage Wldmt	..	1
18	1384483	Pin	2	..
18	1373175	Pin	..	2
19	1373196	Plate	2	2
20	292527	Capscrew	8	8
21	. . . . .	Side-Shift Cylinder (☞Figure 10-10)	2	2
22	1373216	Pin	4	4
23	15237	Cotter Pin	8	8
24	293644	Capscrew	16	16
25	1325763	Shim	AR	AR
25	1325764	Shim	AR	AR
25	1373329	Shim	AR	AR
26	1609687	Cap	4	4
27	1325765	Load Roller	4	4
28	47478	Snap Ring	2	2

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CARRIAGE
QUICK DISCONNECT TYPE

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
29	1325761	Shield	2	2
30	392197	Bearing Cup (Tapered Roller) (5.12 in.)	2	2
31	276228	Bearing Cone (Tapered Roller) (3.35 in.)	2	2
32	1325756	Roller	1	1
33	14349	Fitting (Pipe Plug)	4	4

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NOTES

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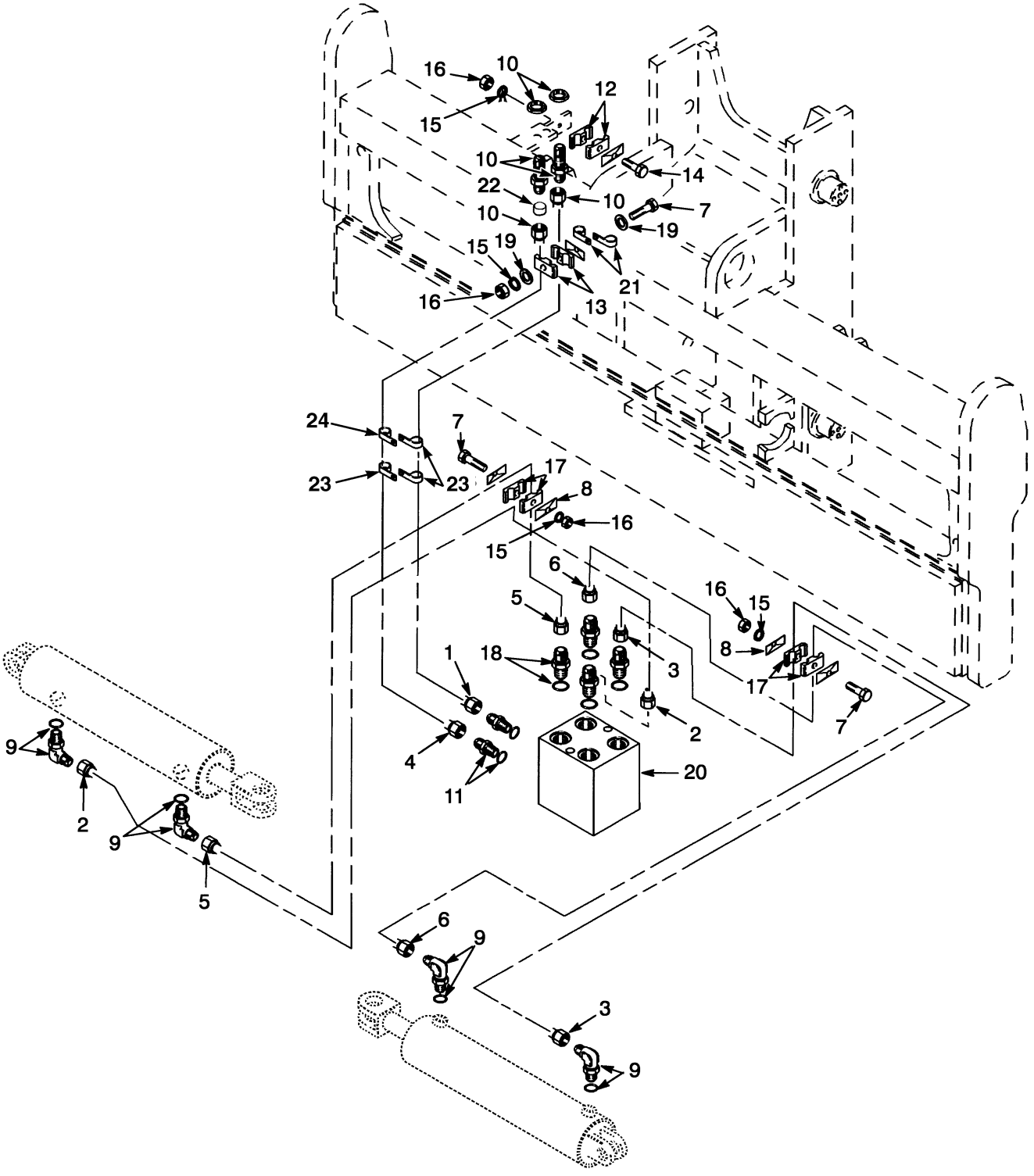
CARRIAGE HYDRAULICS (FIGURE 10-9)



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CARRIAGE HYDRAULICS

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1614869	Tube Assy	1	..
1	1605455	Tube Assy	..	1
2	1614870	Tube Assy	1	..
2	1605456	Tube Assy	..	1
3	1614871	Tube Assy	1	..
3	1605457	Tube Assy	..	1
4	1614872	Tube Assy	1	..
4	1605458	Tube Assy	..	1
5	1614873	Tube Assy	1	..
5	1605459	Tube Assy	..	1
6	1614874	Tube Assy	1	..
6	1605460	Tube Assy	..	1
7	136704	Capscrew	3	2
8	1393739	Cover Plate	2	1
9	1473897	Fitting	4	4
9	~~1495113~~			
	265731	O-Ring	1	1
9	16484	O-Ring	1	1
10	1498506	Fitting (Includes Nut)	2	2
10	~~1495114~~			
	252729	O-Ring	2	2
11	1486749	Fitting	2	2
11	~~1495114~~			
	252729	O-Ring	1	1
11	16485	O-Ring	1	1
12	1373335	Clamp	1	1
13	1393803	Clamp	1	1
14	136703	Capscrew	..	1
14	292512	Capscrew	1	..
15	292681	Lockwasher	4	4
16	239503	Nut	4	4
17	1393802	Clamp	2	2
18	1486746	Fitting	4	4
18	~~1495113~~			
	265731	O-Ring	1	1
18	16485	O-Ring	1	1
19	320157	Washer	2	2
20	. . . . .	Selector Valve	1	1
21	137852	Strap Clamp	AR	AR
22	1645277	Spacer	1	1
23	1564900	Strap Clamp (Green)	3	3
24	1564897	Strap Clamp (Yellow)	1	1

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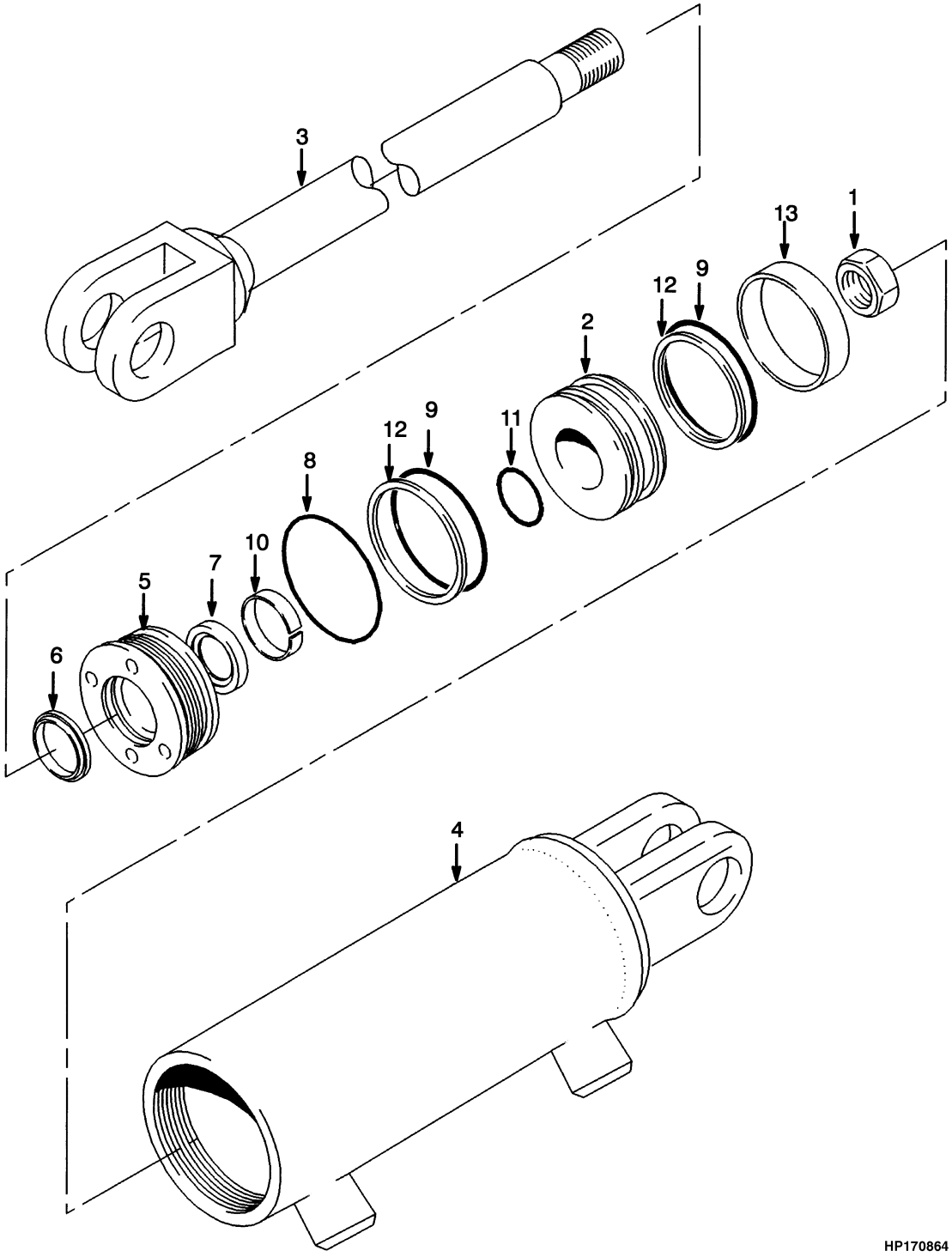
FORK POSITIONER (FIGURE 10-10)
SIDE-SHIFT CYLINDER — QUICK DISCONNECT TYPE



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FORK POSITIONER

SIDE-SHIFT CYLINDER – QUICK DISCONNECT TYPE

KEY:
A: H400HD, HDS
B: H450HD, HDS

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	a 1390639	Cylinder Assy	..	1
	a 1390640	Cylinder Assy	1	..
	b 1458395	Cylinder Assy	..	1
	b 1458396	Cylinder Assy	1	..
1	1393401	Locknut	1	1
2	1393402	Piston	1	1
3	. . . . .	Rod	1	1
4	. . . . .	Shell	1	1
5	1393405	Gland	1	1
6	1393413	Wiper	1	1
7	1393412	Rod Seal	1	1
8	1393411	Back-Up Ring	1	1
9	1393410	O-Ring	2	2
10	1393409	Wear Ring	1	1
11	1393408	O-Ring	1	1
12	1393407	Piston Seal	1	1
13	1393406	Wear Ring	2	2
	1393414	Kit-Seal	2	2

FOOTNOTES:

a With Pin Carriage

b With Quick Disconnect Carriage

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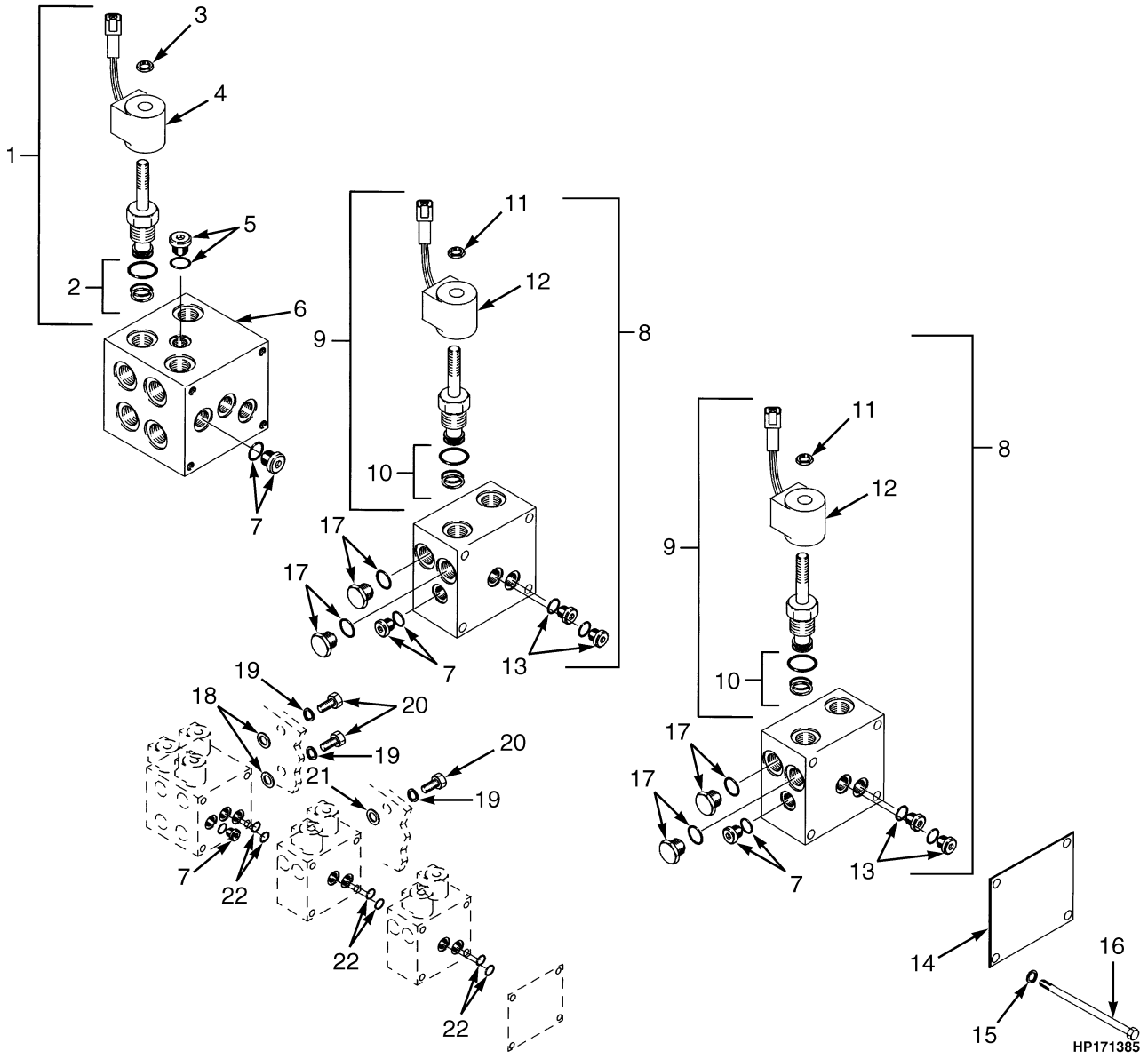
SELECTOR VALVE (FIGURE 10-11)
CARRIAGE



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SELECTOR VALVE
CARRIAGE

KEY:
A: Two Function (0 Aux)
B: Three Function (1 Aux)
C: Four Function (2 Aux)
D: Five Function (3 Aux)

ITEM	PART NO.	DESCRIPTION	QTY A	B	C	D
	1615783	Selector Valve Assembly	1	..	..	..
	1615784	Selector Valve	..	1	..	..
	1615785	Selector Valve	..	..	1	..
	1615786	Selector Valve	..	..	..	1
1	1614175	Solenoid Valve	1	3	3	3
2	1452131	Kit-Seal	2	2	1	1
3	1393164	Nut	2	2	1	1
4	1616434	Coil	1	1	1	1
5	1637921	Plug	2	2	2	2
5	. . . . .	O-Ring	2	2	4	6
6	. . . . .	Body	1	1	1	1
7	1452132	Plug	4	4	4	4
7	1637923	O-Ring	1	1	1	1
8	1637922	Hydraulic Control Valve	..	1	2	3
9	1614175	Solenoid Valve	..	2	2	2
9	1452131	Kit-Seal	..	1	1	1
9	1393164	Nut	..	1	1	1
10	1452131	Kit-Seal	..	1	1	1
11	1393164	Nut	..	1	1	1
12	1616434	Coil	..	1	1	1
13	1452132	Plug	..	1	1	1
13	1637923	O-Ring	..	2	2	2
14	1452134	Cover Plate	1	1	1	1
15	1452135	Washer	4	4	4	4
16	1452138	Bolt	4	..	..	..
16	293642	Capscrew	..	4	..	..
16	1639477	Bolt	..	..	4	..
16	1639476	Bolt	..	..	..	4
17	216590	Fitting	..	2	4	6
17	16485	O-Ring	..	1	1	1
18	320162	Washer	2	3	3	3
19	~~388049~~					
	292682	Lockwasher	2	3	3	3
20	292509	Capscrew	2	3	3	3
20	280472	Sealant	AR	AR	AR	AR
21	320162	Washer	2	3	3	3
22	1452139	O-Ring	..	2	4	6

NOTE: Four function valve shown.

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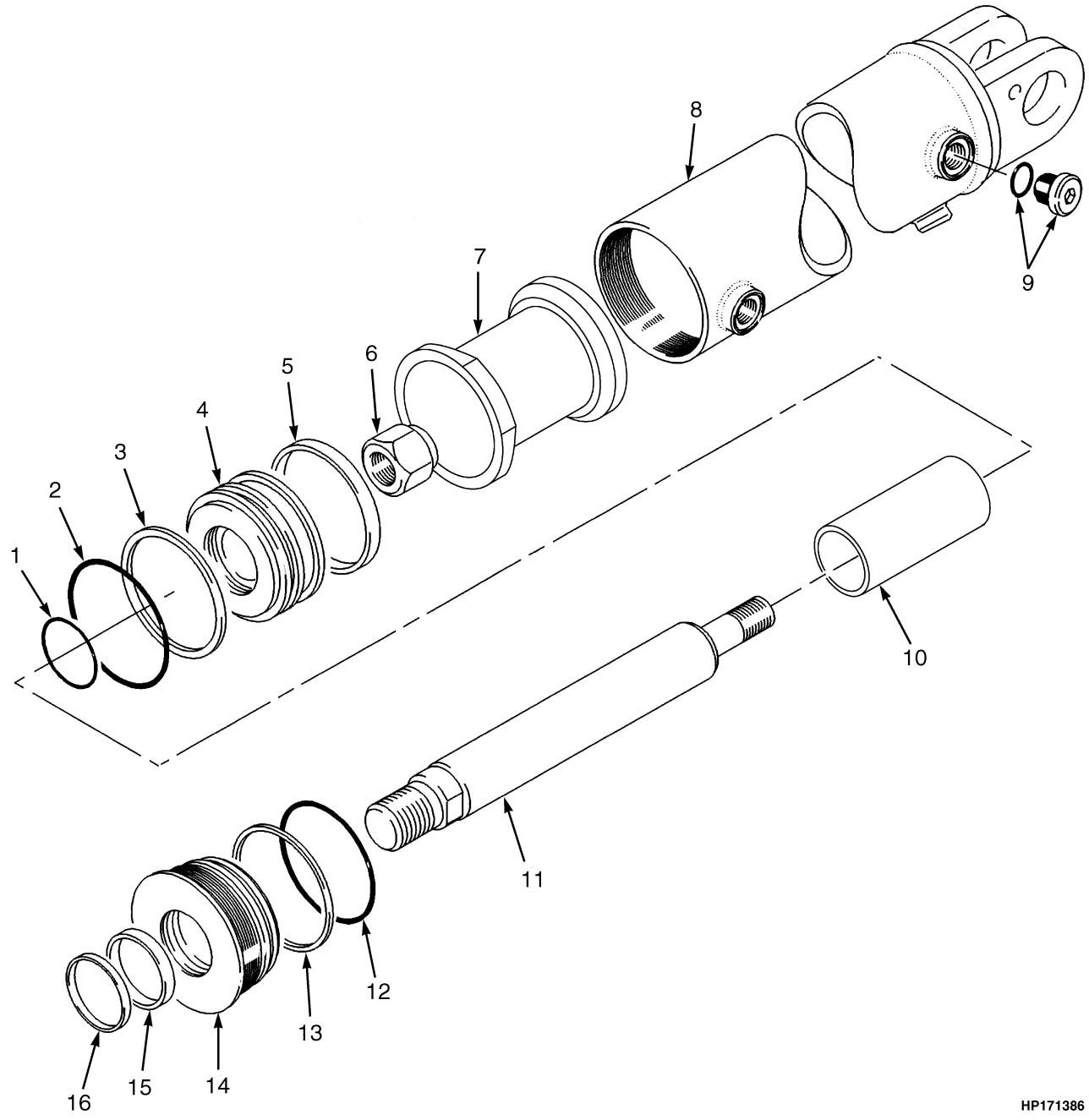
TILT CYLINDERS (FIGURE 10-12)



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TILT CYLINDERS

KEY:
A: 10° Forward/12° Back
B: 10° Forward/10° Back
C: 10° Forward/ 9° Back
D: 10° Forward/ 7° Back
E: 10° Forward/ 6° Back; 5° Forward/ 5° Back

ITEM	PART NO.	DESCRIPTION	QTY A	B	C	D	E
	1391463	Tilt Cylinder	1	..	..	..	..
	1640373	Tilt Cylinder	..	1	..	..	..
	1640374	Tilt Cylinder	..	..	1	..	..
	1640375	Tilt Cylinder	..	..	..	1	..
	1641062	Tilt Cylinder (10° Forward/6° Back)	..	..	..	..	1
	1641063	Tilt Cylinder (5° Forward/5° Back)	..	..	..	..	1
1	46388	O-Ring	1	1	1	1	1
2	90207	O-Ring	1	1	1	1	1
3	370197	Sealing Ring	1	1	1	1	1
4	370175	Piston	1	1	1	1	1
5	370196	Wear Ring	1	1	1	1	1
6	1349793	Locknut	1	1	1	1	1
7	1640379	Spacer	..	1	..	..	..
7	1640380	Spacer	..	..	1	..	..
7	1640381	Spacer	..	..	..	1	..
7	1641060	Spacer (10° Forward/6° Back)	..	..	..	..	1
7	1641061	Spacer (5° Forward/5° Back)	..	..	..	..	1
8	1391465	Tube Wldmt-Cylinder	1	1	1	1	1
9	14595	Plug Assembly	2	2	2	2	2
9	16484	O-Ring	1	1	1	1	1
10	1640377	Spacer (5° Forward/5° Back)	..	..	..	..	1
11	1391467	Piston Rod	1	1	1	1	1
12	15895	O-Ring	1	1	1	1	1
13	53086	Back-Up Ring	1	1	1	1	1
14	370176	End Plug	1	1	1	1	1
15	309062	Rod Seal	1	1	1	1	1
16	225334	Rod Wiper	1	1	1	1	1
	1330134	Kit-Seal (High Temperature)	1	1	1	1	1
	1308786	Kit-Seal	1	1	1	1	1

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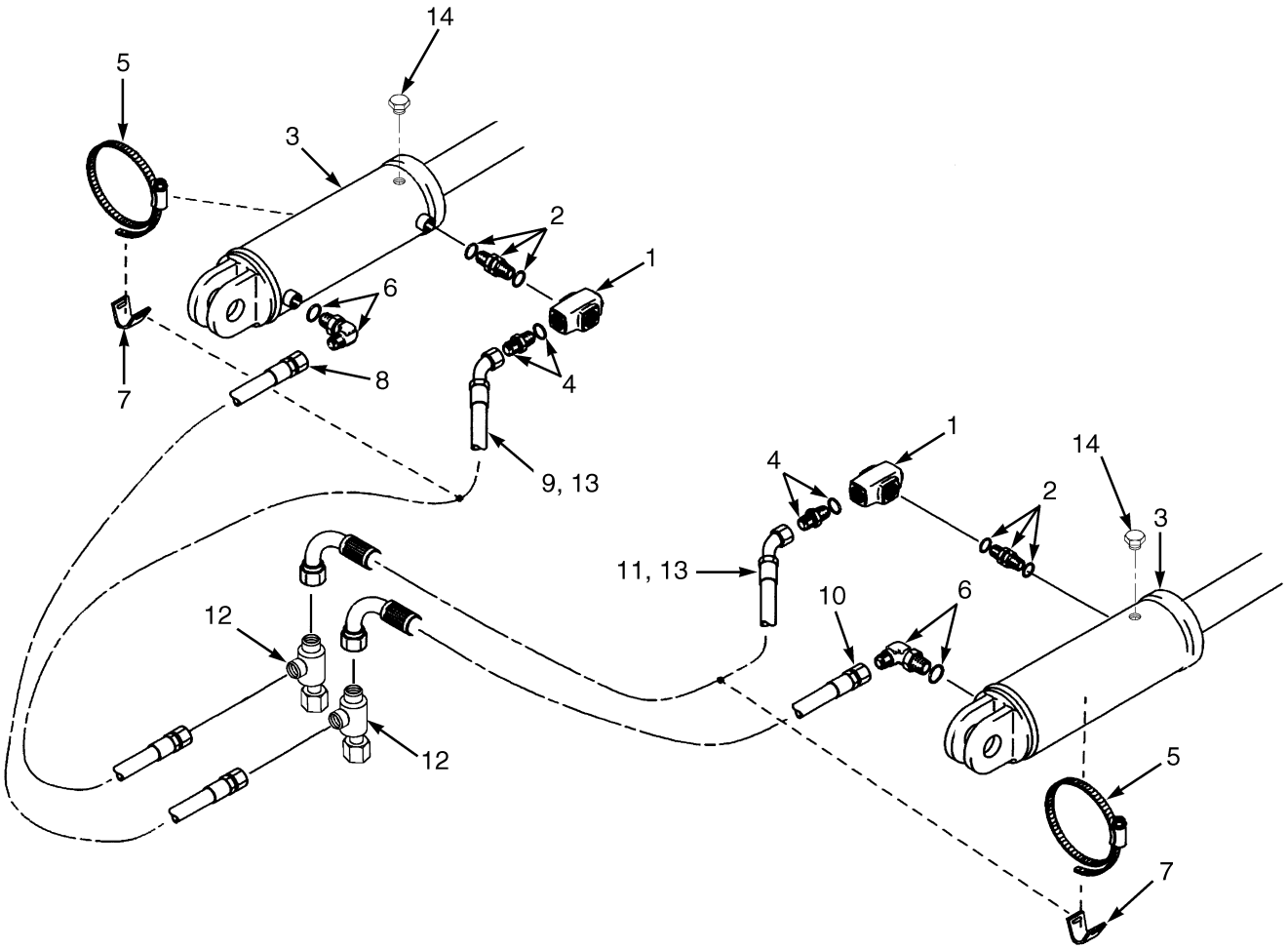
TILT CYLINDER HYDRAULICS (FIGURE 10-13)



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TILT CYLINDER HYDRAULICS

ITEM	PART NO.	DESCRIPTION	QTY
1	1564349	Relief Valve	2
2	1336112	Fitting (O-Ring To O-Ring Adapter)	2
3	. . . . .	Tilt Cylinder (☞Figure 10-12)	2
4	~~6996681~~		
	1473887	Fitting	2
4	16484	O-Ring	1
4	~~1495113~~		
	265731	O-Ring	1
5	227221	Clamp	2
6	1473897	Fitting	2
6	16484	O-Ring	1
6	~~1495113~~		
	265731	O-Ring	1
7	87911	Clamp	2
8	1611019	Hose Assy	1
9	1611020	Hose Assy	1
10	1611023	Hose Assy	1
11	1611021	Hose Assy	1
12	~~6996701~~		
	1487095	Fitting (Swivel Nut Run Tee)	2
12	~~1495113~~		
	265731	O-Ring	3
13	316596	Sleeve (Coil)	2
14	14595	Plug Assembly	2

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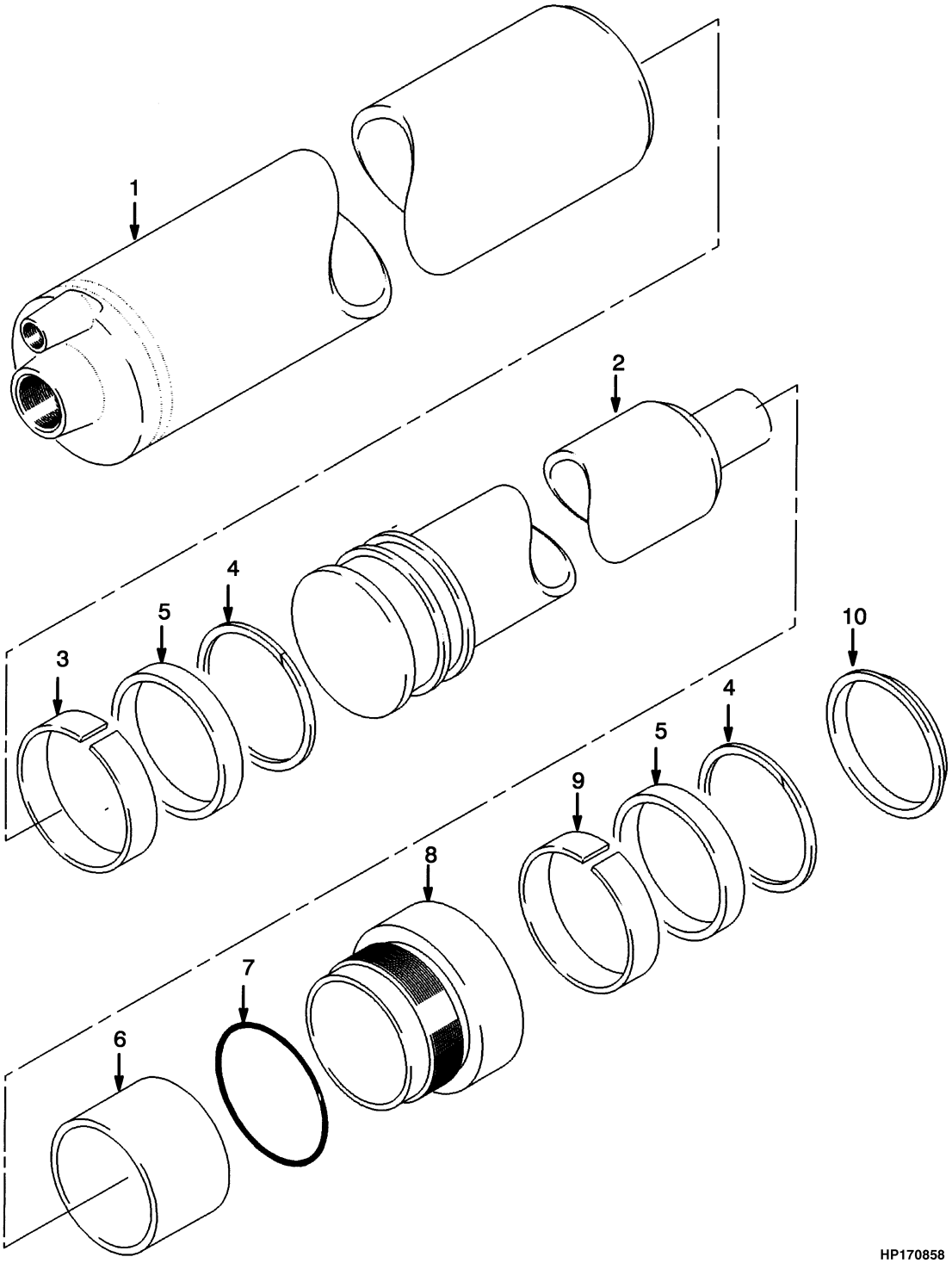
LIFT CYLINDER (FIGURE 10-14)
H400HD, HDS



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LIFT CYLINDER
H400HD, HDS

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	-	-	-	-
	Cylinder Group Number	**8526393**	**8526394**	**8526395**	**8526396**
	Cylinder Assy	2071043	2071044	2071045	2071046
1	Tube Wldmt-Cylinder	1385934	1385935	1385936	1385937
2	Cylinder Rod	1568388	1568389	1568390	1568391

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	-	-
	Cylinder Group Number	**8526397**	**1594229**
	Cylinder Assy	2071047	1594229
1	Tube Wldmt-Cylinder	1385938	1385968
2	Cylinder Rod	1568392	1594222

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	**a**	Tube Wldmt-Cylinder	1
2	**a**	Cylinder Rod	1
3	636954	Wear Ring	2
4	638224	Back-Up Ring	2
5	637166	Rod Seal	2
6	387286	Spacer	1
7	362102	O-Ring	1
8	1328946	Retainer	1
9	318067	Wear Ring	1
10	815620	Rod Wiper	1
	1385958	Kit-Seal	1

FOOTNOTES:

a Refer to Table

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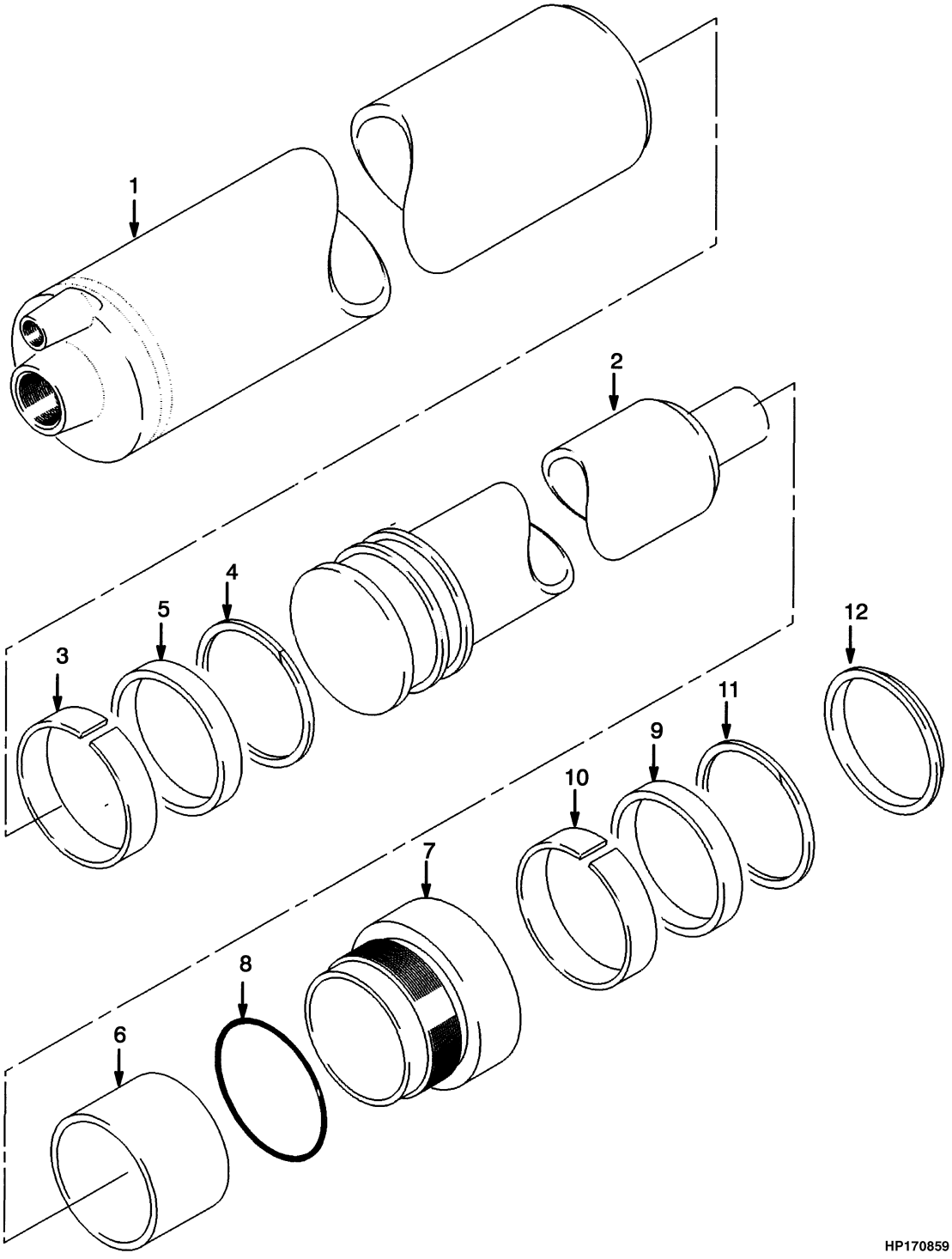
LIFT CYLINDER (FIGURE 10-15)
H450HD, HDS



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LIFT CYLINDER
H450HD, HDS

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	**-**	**-**	**-**	**-**
	Cylinder Group Number	**1594532**	**1594533**	**1594534**	**1594535**
	Cylinder Assy	1594532	1594533	1594534	1594535
1	Tube Wldmt-Cylinder	1372908	1372909	1372910	1372911
2	Cylinder Rod	1594274	1594275	1594276	1594277

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	**-**	**-**
	Cylinder Group Number	**1594536**	**1594537**
	Cylinder Assy	1594536	1594537
1	Tube Wldmt-Cylinder	1372912	1372913
2	Cylinder Rod	1594278	1594279

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	**a**	Tube Wldmt-Cylinder	1
2	**a**	Cylinder Rod	1
3	636956	Wear Ring	1
4	638224	Back-Up Ring	1
5	637166	Rod Seal	1
6	387286	Spacer	1
7	1372921	Retainer	1
8	1372899	O-Ring	1
9	815620	Rod Wiper	1
10	318067	Wear Ring	1
11	637168	Rod Seal	1
12	638256	Back-Up Ring	1
	1372922	Kit-Seal	1

FOOTNOTES:

a Refer to Table

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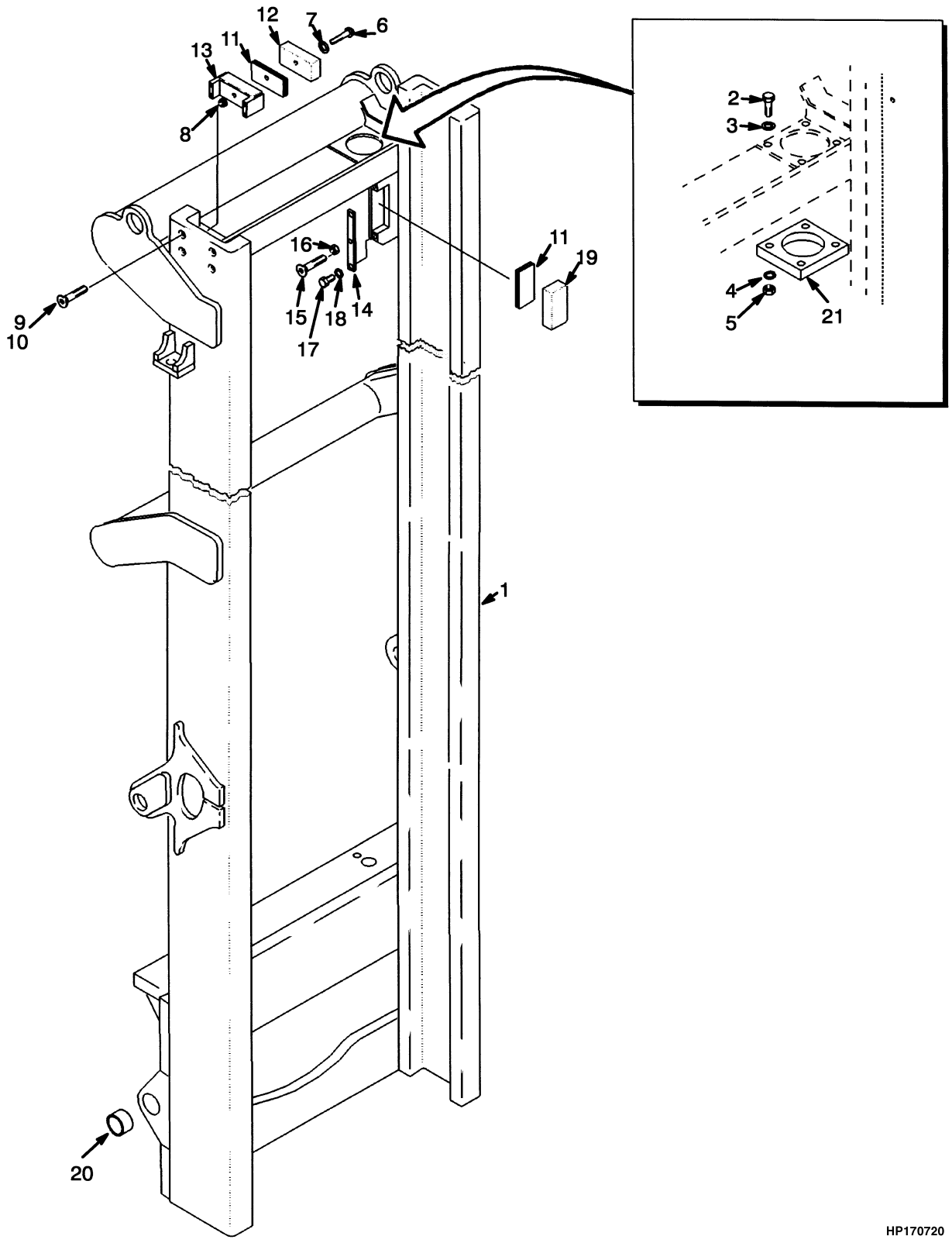
OUTER MAST (FIGURE 10-16)
WITH METRIC CYLINDERS



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OUTER MAST
WITH METRIC CYLINDERS

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A107 3650	A107 4550	A107 5300	A107 6100
	Mast Assy	4022051	4022054	4022057	4022060
1	Outer Mast	1370084	1370085	1370086	1370087

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A107 6600	A107 6900
	Mast Assy	4022063	4022066
1	Outer Mast	1370088	1370089

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A108 3650	A108 4550	A108 5300	A108 6100
	Mast Assy	4064955	4064956	4064957	4064958
1	Outer Mast	1613397	1613398	1613399	1613400

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A108 6600	A108 6900
	Mast Assy	4064959	4064960
1	Outer Mast	1613401	1613402

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Outer Mast	1
2	292531	Capscrew	8
3	320161	Washer	8
4	292683	Lockwasher	8
5	~~1318914~~	Nut	8

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OUTER MAST
WITH METRIC CYLINDERS

ITEM	PART NO.	DESCRIPTION	QTY
	216877		
6	1364272	Capscrew	4
7	320159	Washer	8
8	316836	Nut	4
9	292517	Capscrew	4
10	321197	Loctite	AR
11	1325797	Shim (0.06 in.)	AR
11	1325798	Shim (0.002 in.)	AR
11	1372962	Shim (0.12 in.)	AR
12	1325785	Bearing	4
13	1325795	Bracket Wldmt	4
14	1372958	Plate	2
15	302109	Setscrew	2
16	296128	Nut	2
17	287854	Capscrew	4
18	~~388049~~		
	292682	Lockwasher	4
19	1372961	Block	2
20	321177	Bushing	2
21	1391890	Retainer (H400HD, HDS)	1
21	1391889	Retainer (H450HD, HDS)	1

FOOTNOTES:

a Refer to Table

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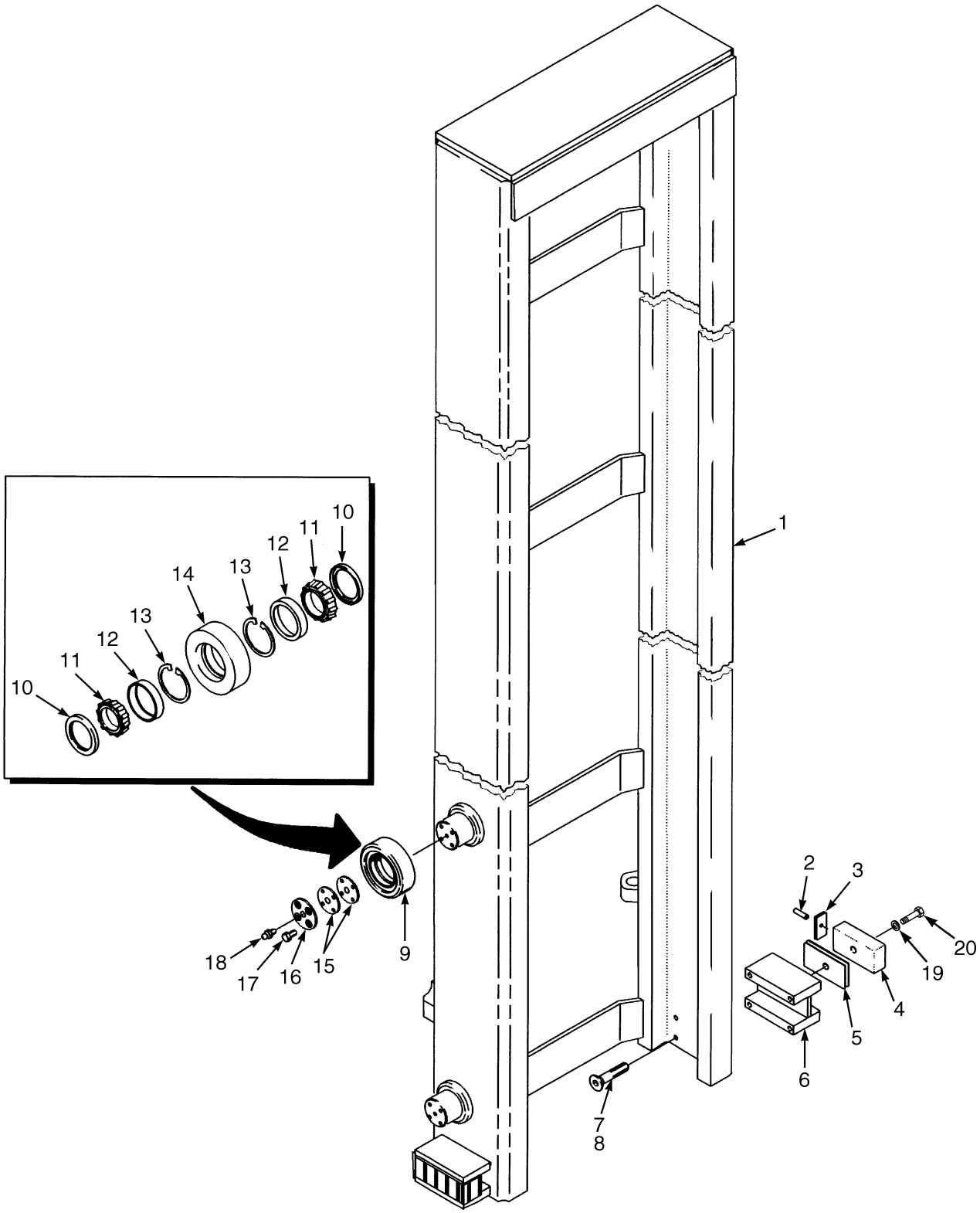
INNER MAST (FIGURE 10-17)
WITH METRIC CYLINDERS



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INNER MAST
WITH METRIC CYLINDERS

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A107 3650	A107 4550	A107 5300	A107 6100
	Mast Assy	4022051	4022054	4022057	4022060
1	Inner Mast	1373115	1373116	1373117	1373118

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A107 6600	A107 6900
	Mast Assy	4022063	4022066
1	Inner Mast	1373119	1373120

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A108 3650	A108 4550	A108 5300	A108 6100
	Mast Assy	4064955	4064956	4064957	4064958
1	Inner Mast	1372814	1372815	1372816	1372817

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A108 6600	A108 6900
	Mast Assy	4064959	4064960
1	Inner Mast	1372818	1372819

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	**a**	Inner Mast	1
2	302468	Roll Pin	2
3	1373025	Shim	AR
3	1373026	Shim	AR
3	1373027	Shim	AR

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INNER MAST
WITH METRIC CYLINDERS

ITEM	PART NO.	DESCRIPTION	QTY
4	1373039	Bearing	2
5	1373028	Shim	AR
5	1373029	Shim	AR
5	1373030	Shim	AR
6	1373049	Bracket Wldmt	2
7	296255	Capscrew	4
8	321197	Loctite	AR
9	1325765	Load Roller	4
10	1325761	Shield	2
11	276228	Bearing Cone (Tapered Roller) (3.35 in.)	2
12	392197	Bearing Cup (Tapered Roller) (5.12 in.)	2
13	47478	Snap Ring	2
14	1325756	Roller	1
15	1325763	Shim	AR
15	1325764	Shim	AR
15	1373329	Shim	AR
16	1609687	Cap	4
17	293644	Capscrew	16
18	16001	Grease Fitting	4
19	320159	Washer	8
20	1364272	Capscrew	4

FOOTNOTES:

a Refer to Table

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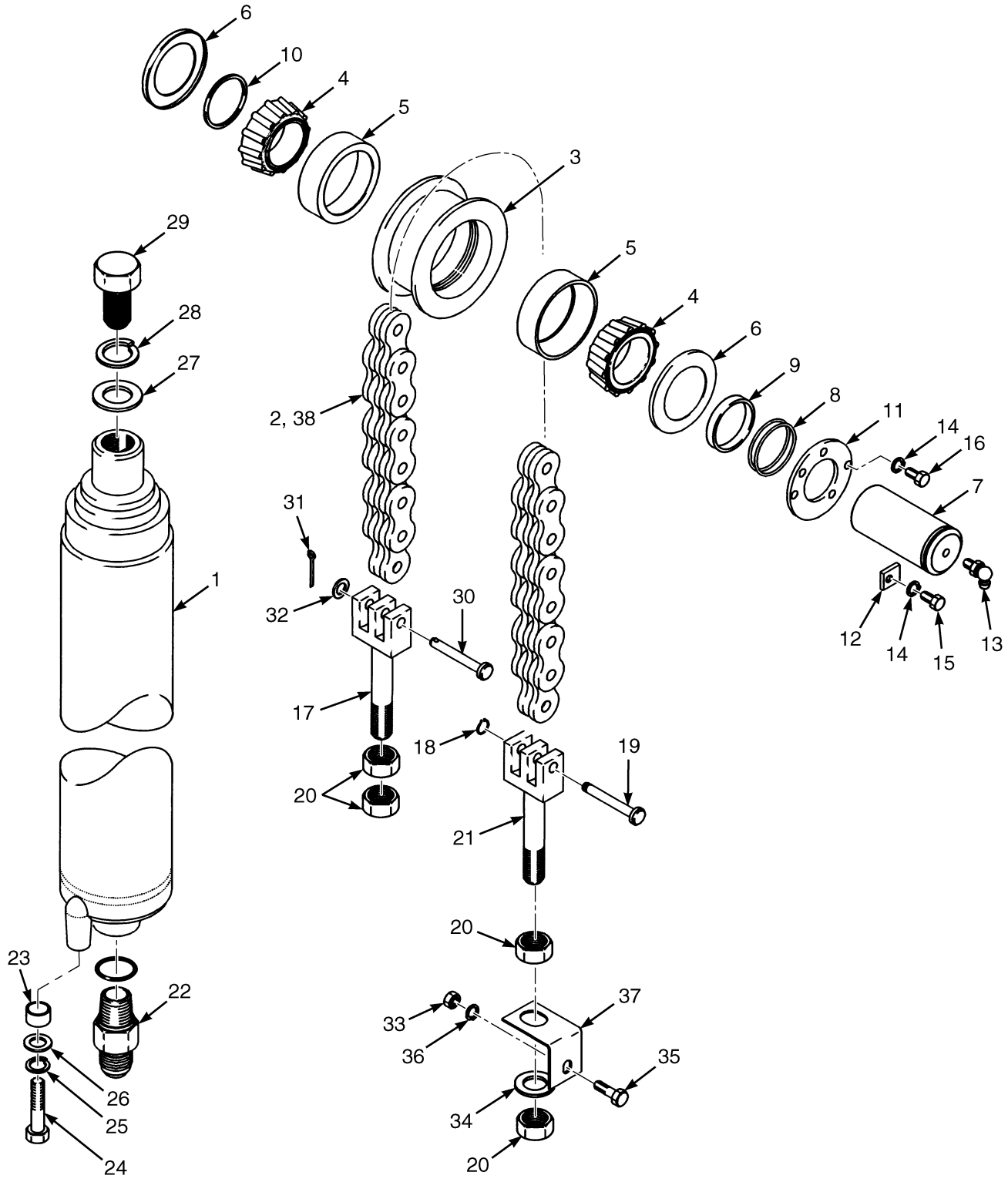
MAIN LIFT (FIGURE 10-18)
WITH METRIC CYLINDERS — PAGE 1 OF 2



HP171411

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MAIN LIFT
WITH METRIC CYLINDERS – PAGE 1 OF 2

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A107 3650	A107 4550	A107 5300	A107 6100
2	Chain	330006	1455468	1373358	330010
38	Chain	**c**4015202 **a**4015207	**c**4015203 **a**4015208	**c**4015204 **a**4015209	**c**4015193 **a**4015199

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A107 6600	A107 6900
2	Chain	1373359	1373360
38	Chain	**c**4015205 **a**4015210	**c**4015206 **a**4015211

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A108 3650	A108 4550	A108 5300	A108 6100
2	Chain	1373181	1373180	330009	330010
38	Chain	**c**4015190 **a**4015196	**c**4015191 **a**4015197	**c**4015192 **a**4015198	**c**4015193 **a**4015199

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A108 6600	A108 6900
2	Chain	330011	1373183
38	Chain	**c**4015194 **a**4015200	**c**4015195 **a**4015201

ITEM	PART NO.	DESCRIPTION	QTY
1	**b**	Lift Cylinder (☞Figure 10-14, ☞Figure 10-15).....	2
2	**b**	Chain	2

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MAIN LIFT
WITH METRIC CYLINDERS – PAGE 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
3	1382449	Chain Sheave	2
4	392198	Bearing Cone	4
5	392197	Bearing Cup (Tapered Roller) (5.12 in.)	4
6	1325761	Shield	4
7	1325766	Shaft	2
8	1325781	Shim	AR
8	1325782	Shim	AR
8	1325783	Shim	AR
9	1325767	Spacer	2
10	1325768	Spacer	2
11	1455951	Cover Plate	2
12	1325784	Retainer Plate	2
13	16015	Grease Fitting	2
14	292683	Lockwasher	10
15	292527	Capscrew	8
16	~~4048814~~		
	292528	Capscrew	2
17	1455432	Chain Anchor	2
18	1194251	Snap Ring	4
19	334886	Pin	2
20	136405	Nut	8
21	1459350	Chain Anchor	2
22	2043536	Lowering Control Valve (H400HD, HDS)	1
22	16983	O-Ring	1
22	2043538	Lowering Control Valve (H450HD, HDS)	1
22	244167	O-Ring	1
23	1300165	Spacer (H400HD, HDS)	2
24	292515	Capscrew (H400HD, HDS)	2
24	136985	Capscrew (H450HD, HDS)	2
25	~~388049~~		
	292682	Lockwasher	2
26	1303391	Washer	2
27	15181	Washer	2
28	292687	Lockwasher	2
29	292580	Capscrew	2
30	1455467	Pin	2
31	15244	Cotter Pin	2
32	15136	Washer	2
33	~~1318914~~		
	216877	Nut	2
34	221786	Washer	4
35	287837	Capscrew	2
36	292683	Lockwasher	2
37	1460265	Bracket	2
38	**b**	Chain	2

FOOTNOTES:

a Hitachi
b Refer to Table
c Tsubaki

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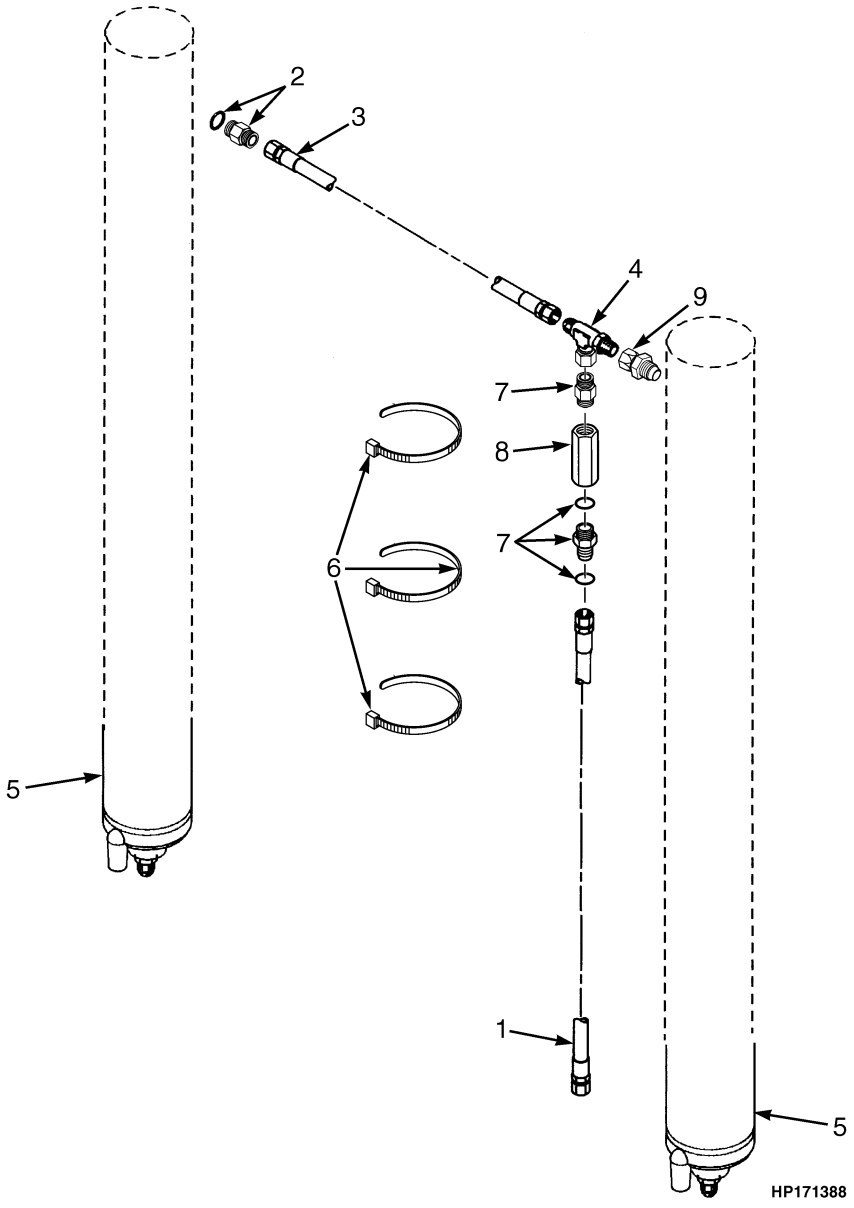
MAIN LIFT (FIGURE 10-19)
WITH METRIC CYLINDERS — PAGE 2 OF 2



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MAIN LIFT
WITH METRIC CYLINDERS – PAGE 2 OF 2

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A107 3650	A107 4550	A107 5300	A107 6100
1	Hose Assy	1604026	1604027	1604028	1604029

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A107 6600	A107 6900
1	Hose Assy	1604030	1604031

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A108 3650	A108 4550	A108 5300	A108 6100
1	Hose Assy	1604026	1604027	1604028	1604029

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A108 6600	A108 6900
1	Hose Assy	1604030	1604031

ITEM	PART NO.	DESCRIPTION	QTY
1	**a**	Hose Assy	1
2	1486740	Fitting	1
2	16481	O-Ring	1
2	~~1450764~~		
	16486	O-Ring	1
3	1604032	Hose Assy	1
4	1488464	Fitting	1
4	16483	O-Ring	1
4	~~6992657~~		
	265787	O-Ring	1
5	. . . . .	Lift Cylinder (☞Figure 10-14, ☞Figure 10-15)	1

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MAIN LIFT
WITH METRIC CYLINDERS – PAGE 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
6	273775	Strap Clamp	3
7	1486742	Fitting	2
7	16484	O-Ring	1
7	1527816	O-Ring	1
8	1595723	Check Valve	1
9	1549715	Fitting	1
9	~~1495111~~		
	1527813	O-Ring	1

FOOTNOTES:

a Refer to Table

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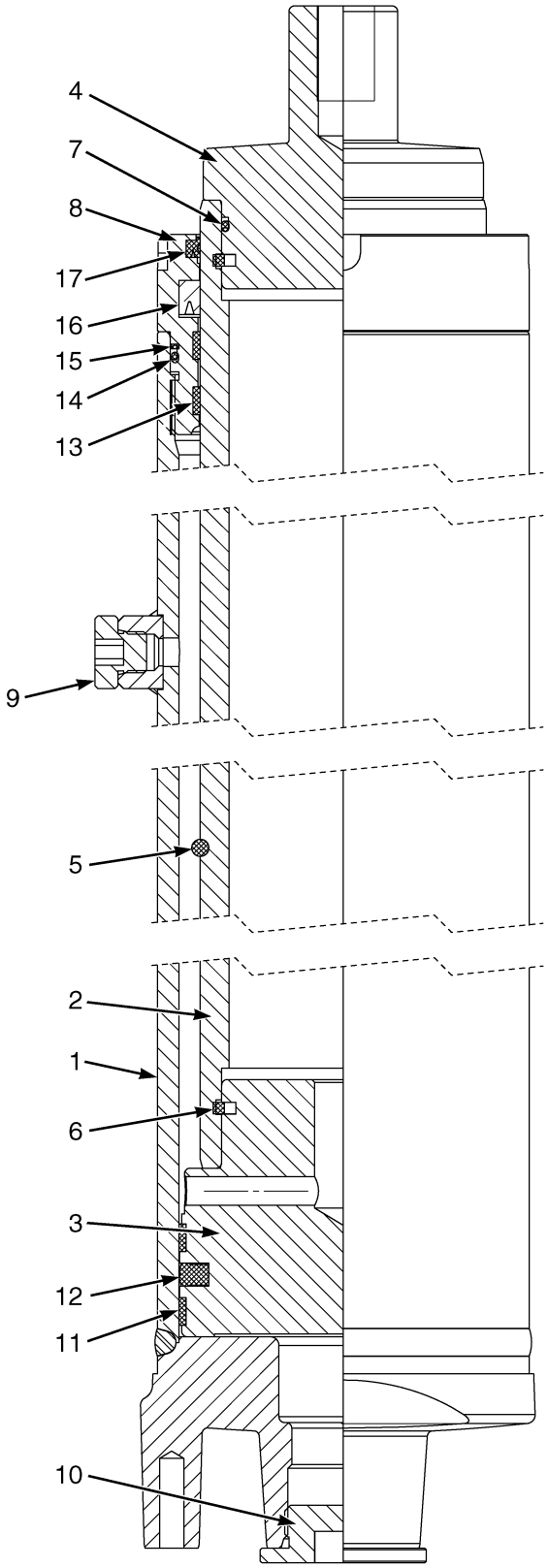
LIFT CYLINDER ASSEMBLY (FIGURE 10-20)

METRIC — H400HD/HDS



BP170668

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LIFT CYLINDER ASSEMBLY
METRIC – H400HD/HDS

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	A108 3650	A108 4550	A108 5300	A108 6100
	Cylinder Group Number	8803516	8803517	8803518	8803519
	Lift Cylinder	4615686	4607455	4607456	4607457
1	Tube Wldmt-Cylinder	4082910	4082912	4082914	4082916
2	Cylinder Rod Assy	4082904	4082905	4082906	4082907

H400HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	A108 6600	A108 6900
	Cylinder Group Number	8803520	4019295
	Lift Cylinder	4607458	4019295
1	Tube Wldmt-Cylinder	4082918	4082920
2	Cylinder Rod Assy	4082909	4082908

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	**a**	Tube Wldmt-Cylinder	1
2	**a**	Cylinder Rod Assy	1
3	. . . . .	Piston	1
4	. . . . .	Rod End	1
5	4077867	Wire Stop	1
6	4077868	Lockring	2
7	1697452	O-Ring	1
8	4077866	Head , Cylinder	1
9	1643853	Plug	1
10	4077876	Plug	1
11	. . . . .	Wear Ring	2
12	. . . . .	Piston Seal	1
13	. . . . .	Wear Ring	2
14	. . . . .	O-Ring	1
15	. . . . .	Back-Up Ring	1
16	. . . . .	Rod Seal	1
17	. . . . .	Wiper	1

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LIFT CYLINDER ASSEMBLY
METRIC – H400HD/HDS

ITEM	PART NO.	DESCRIPTION	QTY
	4077838	Kit-Seal	1

FOOTNOTES:

a Refer to Table

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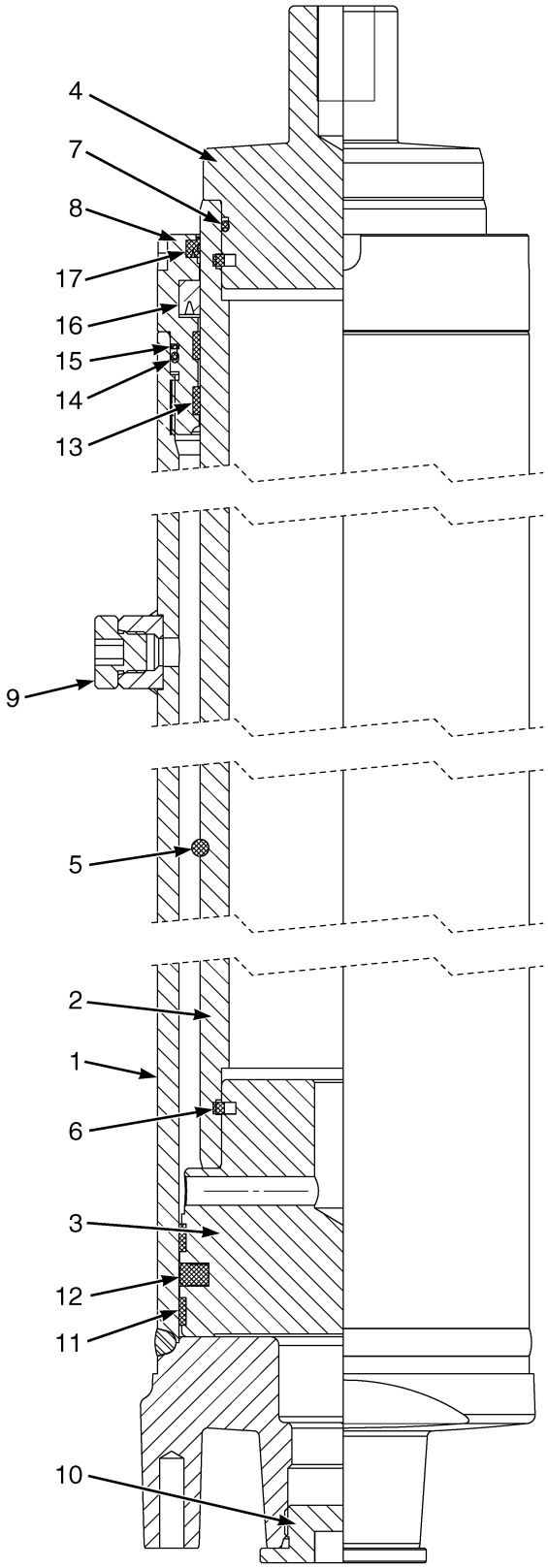
LIFT CYLINDER ASSEMBLY (FIGURE 10-21)

METRIC — H450HD/HDS



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LIFT CYLINDER ASSEMBLY
METRIC – H450HD/HDS

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3650 mm (143.7 in.)	4550 mm (179.1 in.)	5300 mm (208.7 in.)	6100 mm (240.2 in.)
	Mast Group Number	**A107 3650**	**A107 4550**	**A107 5300**	**A107 6100**
	Cylinder Group Number	**4019289**	**4019290**	**4019291**	**4019292**
	Lift Cylinder	4019289	4019290	4019291	4019292
1	Tube Wldmt-Cylinder	4083255	4083256	4083257	4083258
2	Cylinder Rod Assy	4082924	4082925	4082926	4082927

H450HD/HDS

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		6600 mm (259.8 in.)	6900 mm (271.7 in.)
	Mast Group Number	**A107 6600**	**A107 6900**
	Cylinder Group Number	**4019293**	**4019294**
	Lift Cylinder	4019293	4019294
1	Tube Wldmt-Cylinder	4083259	4083260
2	Cylinder Rod Assy	4082928	4082929

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	**a**	Tube Wldmt-Cylinder	1
2	**a**	Cylinder Rod Assy	1
3	. . . . .	Piston	1
4	. . . . .	Rod End	1
5	4077867	Wire Stop	1
6	4077868	Lockring	2
7	1697452	O-Ring	1
8	4082933	Head , Cylinder	1
9	1643853	Plug	1
10	4077876	Plug	1
11	. . . . .	Wear Ring	2
12	. . . . .	Piston Seal	1
13	. . . . .	Wear Ring	2
14	1698484	O-Ring	1
15	. . . . .	Back-Up Ring	1
16	. . . . .	Rod Seal	1
17	. . . . .	Wiper	1

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LIFT CYLINDER ASSEMBLY
METRIC – H450HD/HDS

ITEM	PART NO.	DESCRIPTION	QTY
18	4082922	Kit-Seal	1

FOOTNOTES:

a Refer to Table

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11 ATTACHMENTS

SECTION 11
ATTACHMENTS

DESCRIPTION	PAGE
FORKS	
PIN TYPE	11-4
QUICK DISCONNECT TYPE	11-2

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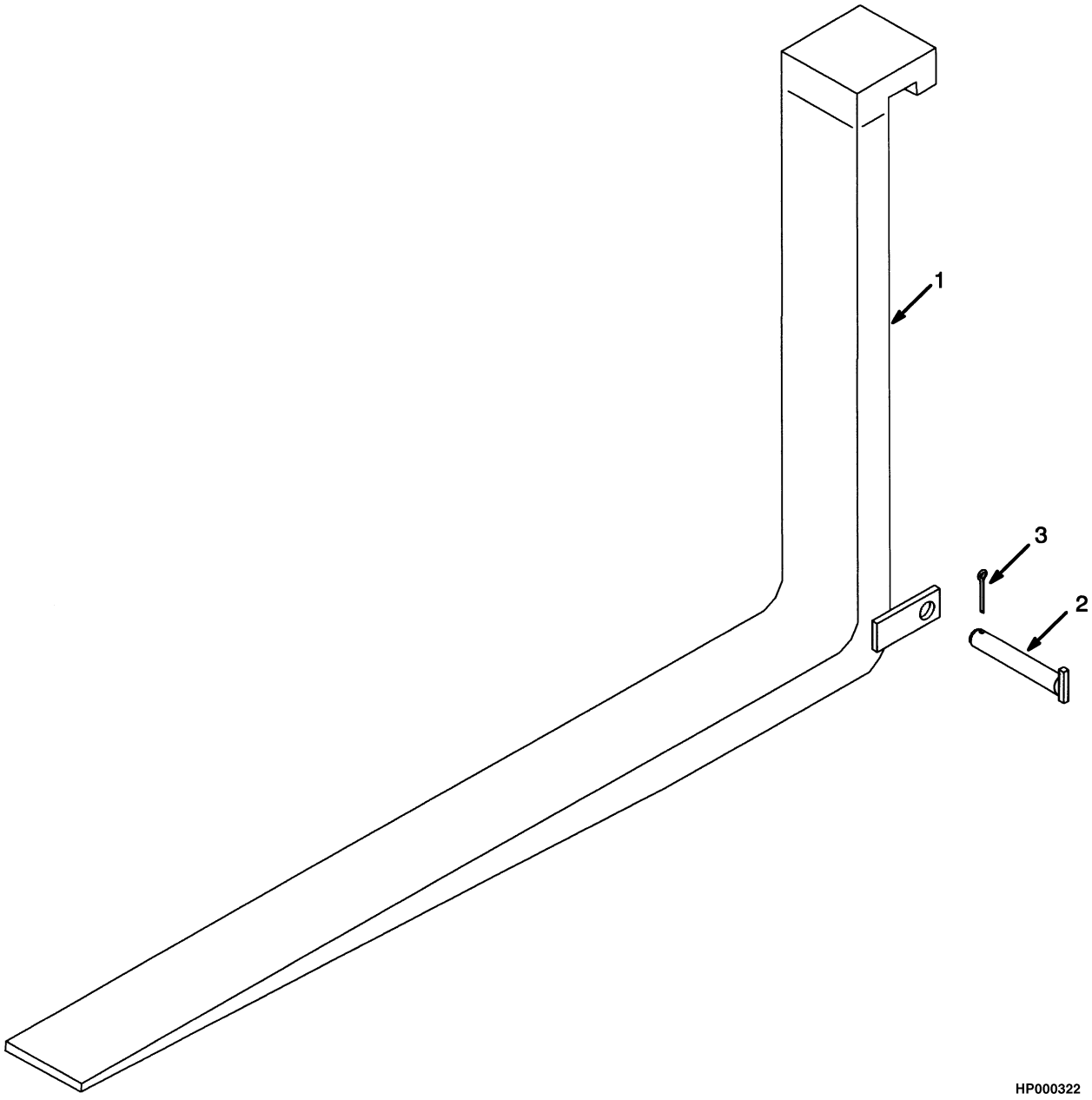
FORKS (FIGURE 11-1)
QUICK DISCONNECT TYPE



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KEY:
A: 200 x 100 x 2440, 96 in. (H400)
B: 250 x 100 x 2440, 96 in. (H450)

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1372954	Fork	2	..
1	1372952	Fork	..	2
2	1451183	Pin	2	..
2	1373174	Pin	..	2
3	15236	Cotter Pin	2	2

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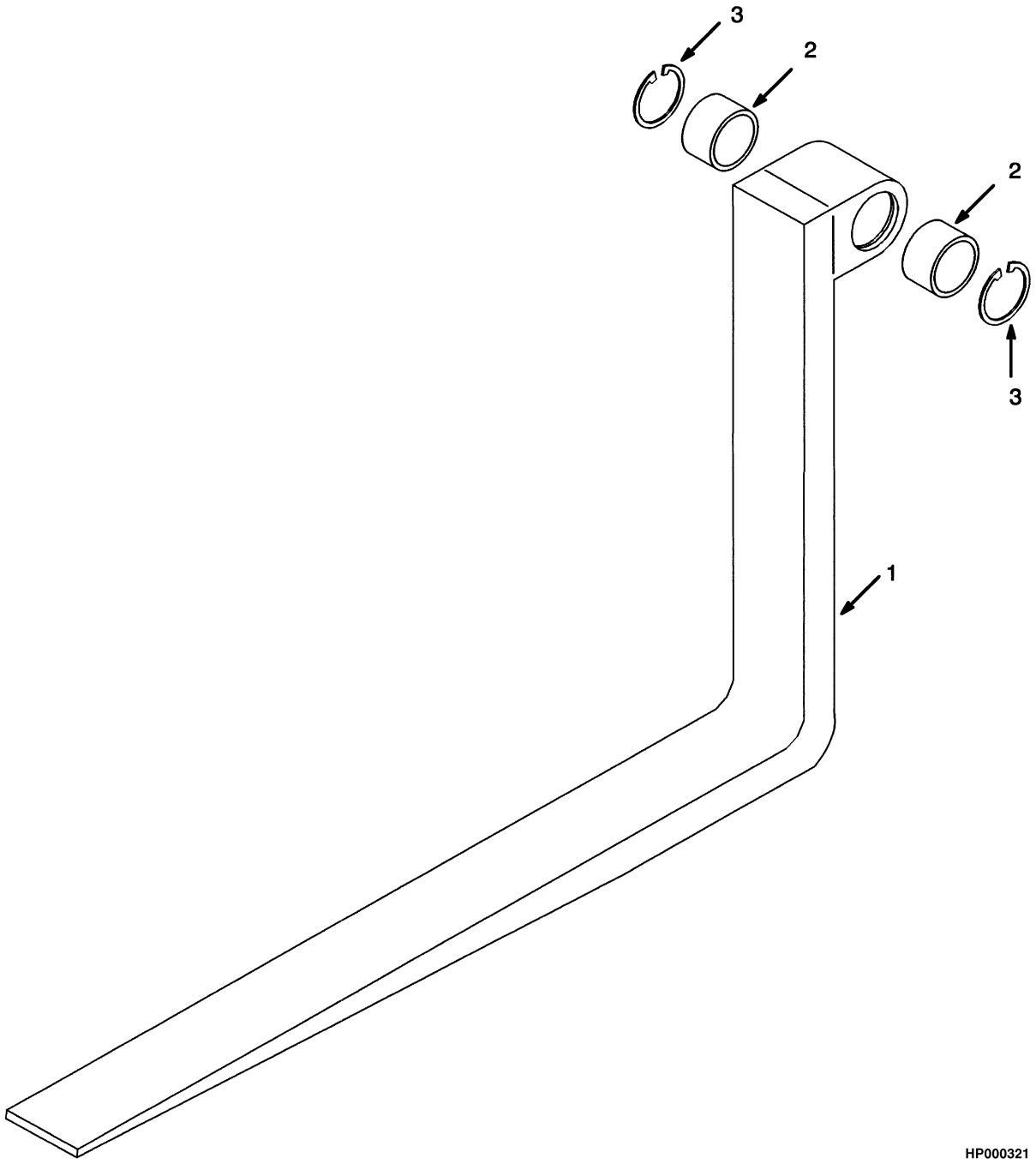
FORKS (FIGURE 11-2)
PIN TYPE



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FORKS
PIN TYPE

KEY:
A: 200 x 100 mm
B: 250 x 100 mm

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
	1373320	Fork (60 in.)	2	..
	1373239	Fork (72 in.)	2	..
	1373346	Fork (84 in.)	2	..
	1373319	Fork (84 in.)	..	2
	1373238	Fork (96 in.)	2	..
	1373233	Fork (96 in.)	..	2
1	1373451	Fork (60 in.)	1	..
1	1373237	Fork (72 in.)	1	..
1	1373347	Fork (84 in.)	1	..
1	1373450	Fork (84 in.)	..	1
1	1373236	Fork (96 in.)	1	..
1	1373230	Fork (96 in.)	..	1
2	1373177	Bushing	1	1
3	~~1373284~~			
	334475	Snap Ring	1	1

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12 OPTIONS

SECTION 12
OPTIONS

DESCRIPTION	PAGE
BOW-SHACKLES	12-10
CAB RECIRCULATING FAN	
CLOSED CAB ONLY	12-15
DIAGNOSTICS INTERFACE CABLE	12-21
DIRECTIONAL AND MARKER LIGHTS	12-4
EMPTY SEAT ENGINE SHUTDOWN	12-13
ENGINE BLOCK HEATER	12-16
HEATED TOP WINDOW	
CLIMATE CONTROL CAB	12-12
JUMP START AID	12-11
MAP READING LIGHT	
CLOSED CONSTRUCTION	12-6
MIRRORS	12-18
MUDFLAPS AND ATTACHING PARTS	12-8
OPTIONAL MOUNTING EQUIPMENT (HANDLE)	12-2
ALTERNATE ASSEMBLY	12-3
SECOND 12V SOCKET OPTION	
CLIMATE CONTROL CAB	12-19
STROBE LIGHT	12-5
THREE-POINT SEAT BELT	12-20
TRAINING SEAT	12-14

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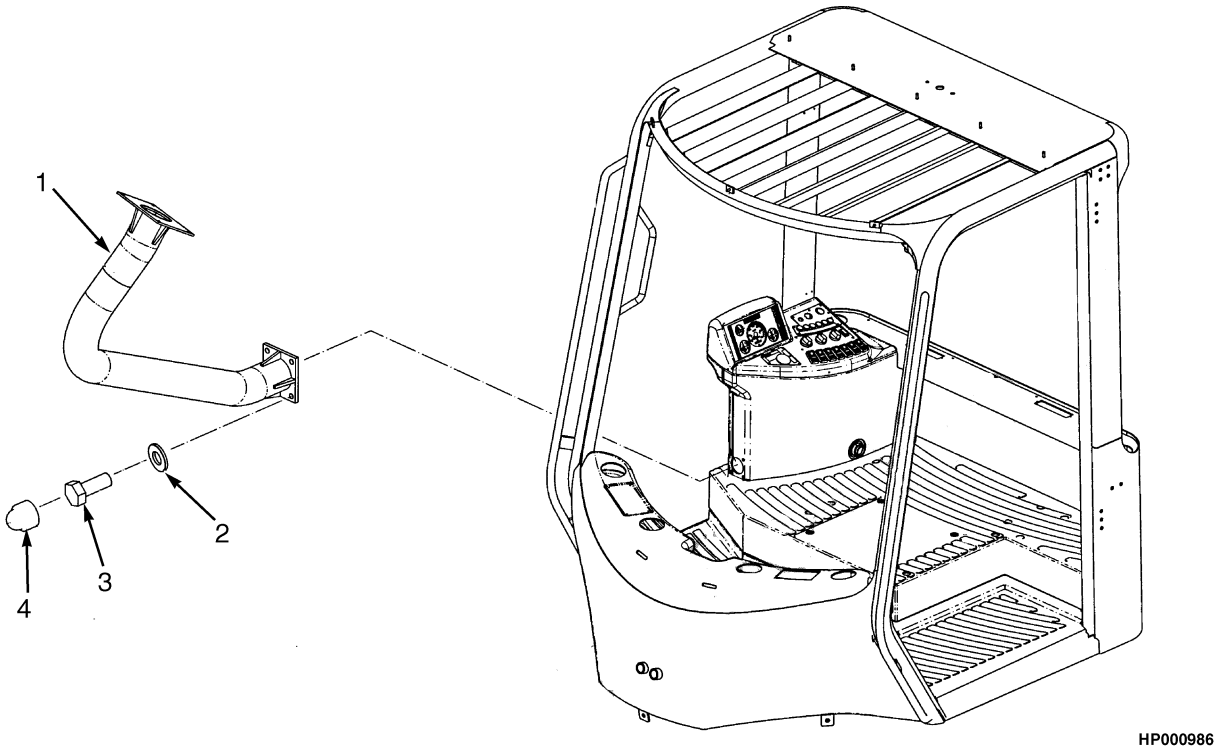
OPTIONAL MOUNTING EQUIPMENT (HANDLE) (FIGURE 12-1)



HP000986

ITEM	PART NO.	DESCRIPTION	QTY
1	1571812	Handle	1
2	296419	Washer	4
3	136749	Screw	4
4	1476584	Cover (Capscrew Head)	4

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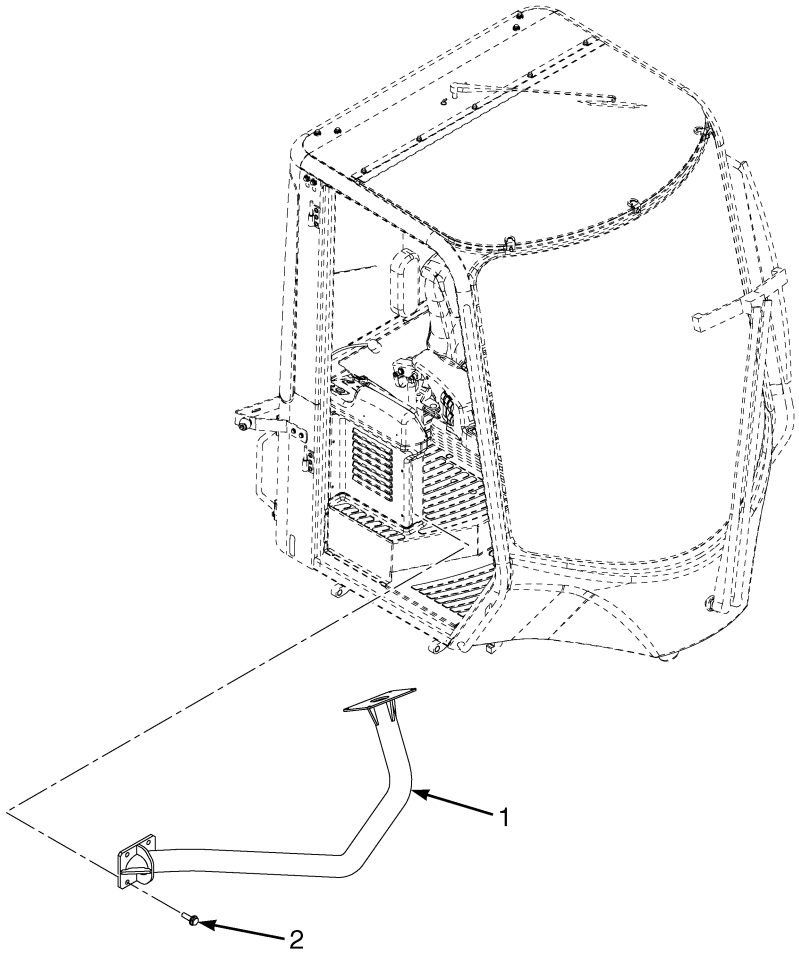
OPTIONAL MOUNTING EQUIPMENT (HANDLE) (FIGURE 12-2)

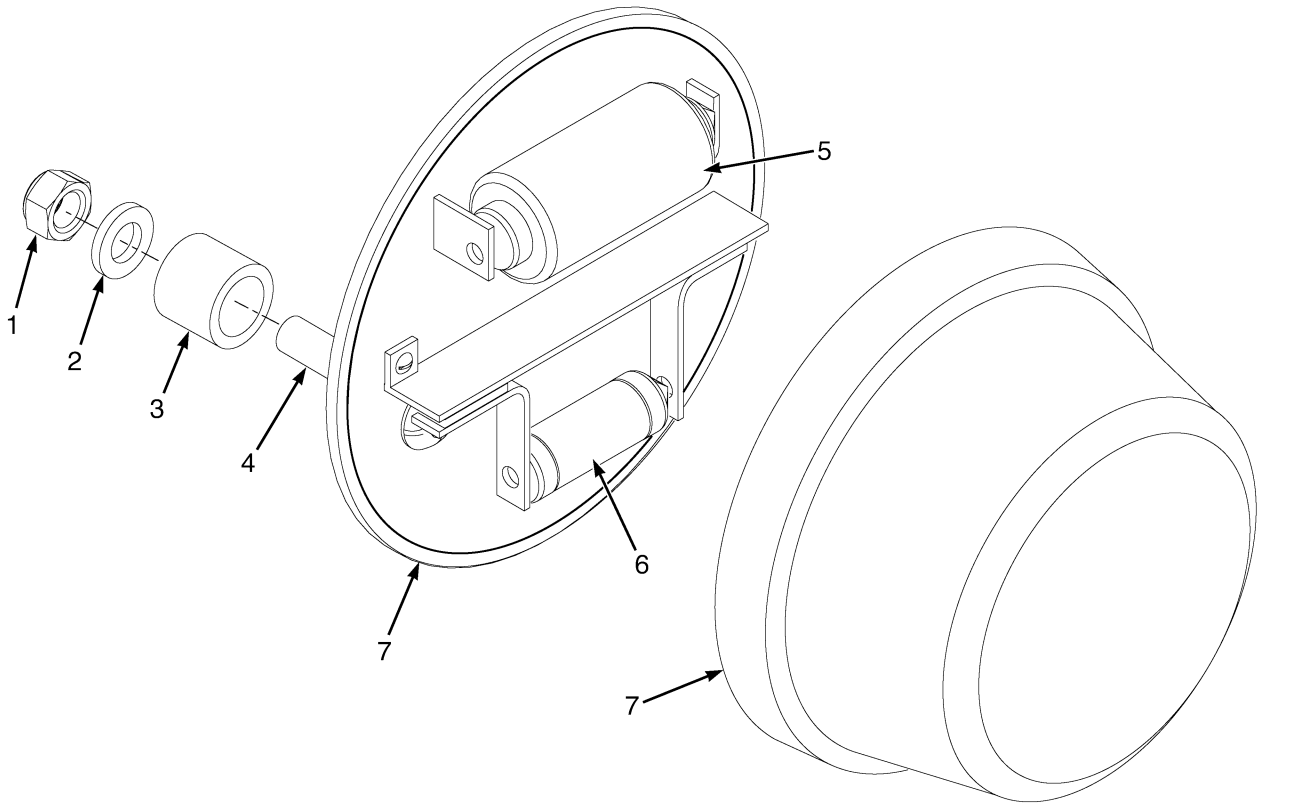
ALTERNATE ASSEMBLY



BP000961

ITEM	PART NO.	DESCRIPTION	QTY
1	4070081	Mount	1
2	1566044	Bolt	4

DIRECTIONAL AND MARKER LIGHTS (FIGURE 12-3)



HP000951

ITEM	PART NO.	DESCRIPTION	QTY
1	302398	Locknut	4
2	320155	Washer	4
3	376505	Spacer	4
4	296155	Capscrew	4
5	1310638	Bulb (Directional)	2
6	384014	Bulb (Marker)	2
7	373091	Turn Signal Light	2
	a 1672818	Wire Harness (Side Indicator)	2
8	4601415	Wire Harness (Side And Indicator Lights) (Alternate Part)	2

FOOTNOTES:

a Not Illustrated

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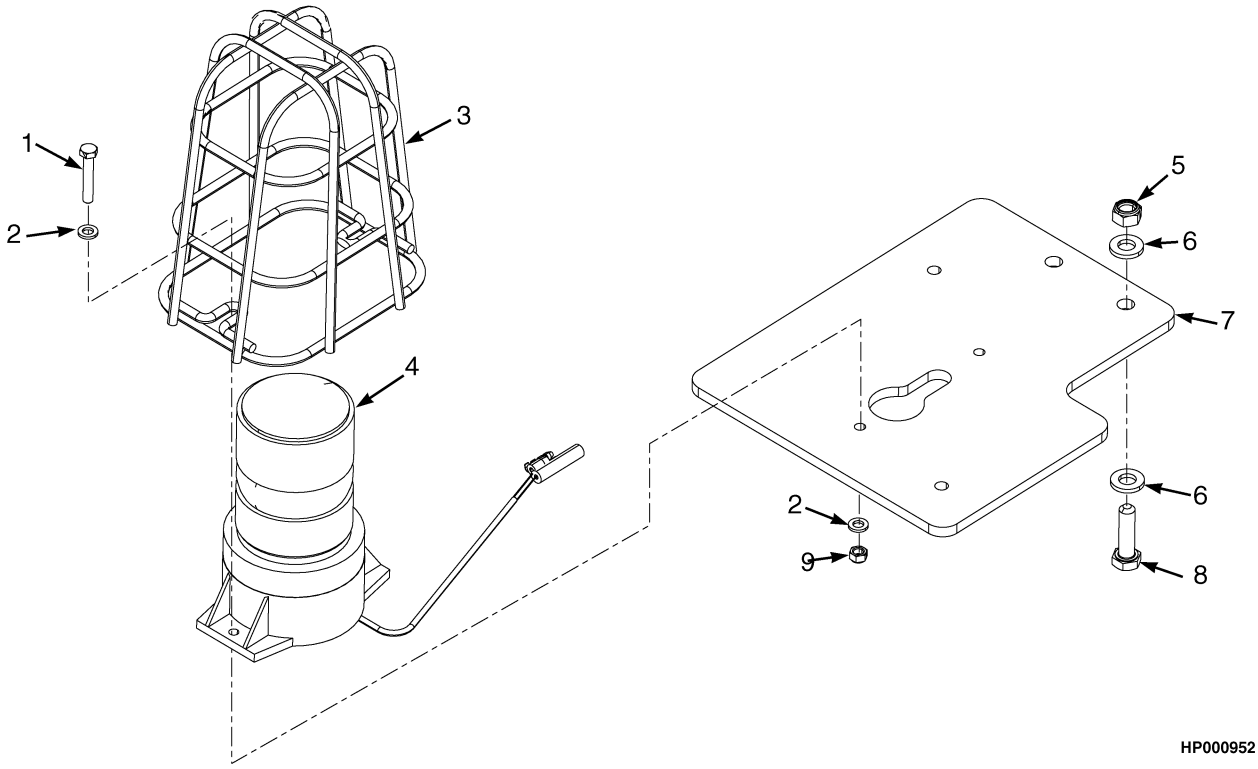
STROBE LIGHT (FIGURE 12-4)

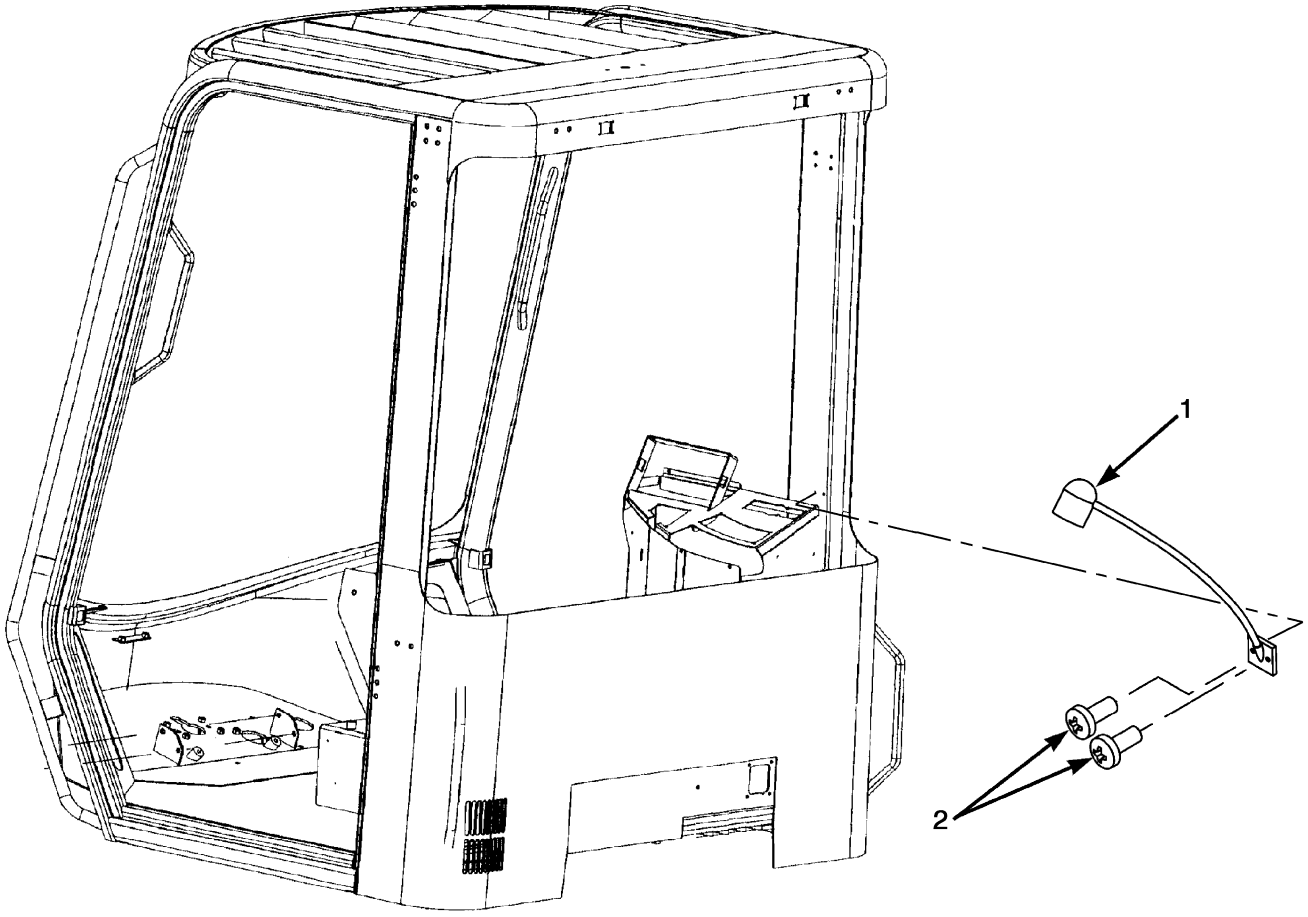


ITEM	PART NO.	DESCRIPTION	QTY
1	2072353	Capscrew	2
2	320155	Washer	4
3	1302024	Guard (Strobe Light)	1
4	1616202	Strobe Light Assembly	1
4	1616213	Strobe Light	1
4	1636383	Lens (Amber)	1
4	1636384	Bulb (12 to 80 Volts DC)	1
4	1324307	Sleeve	1
4	1324308	Terminal	1
4	1324309	Sleeve	1
4	1324310	Terminal	1
5	302400	Nut	2
6	320157	Washer	4
7	1480236	Bracket	1
8	176640	Bolt	2
9	302398	Locknut	2
	a 1545521	Wire Harness (Rotating Beacon Adapter)	1
	a 1497230	Terminal	2

FOOTNOTES:

a Not Illustrated

MAP READING LIGHT (FIGURE 12-5)
CLOSED CONSTRUCTION



HP000929

ITEM	PART NO.	DESCRIPTION	QTY
1	1506682	Map Light	1
1	1516559	Bulb (For Round Map Light, 12V, 5W)	1
1	4164625	Bulb (For Square Map Light, 24V, 7.5W)	1
2	1468318	Screw	2

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NOTES

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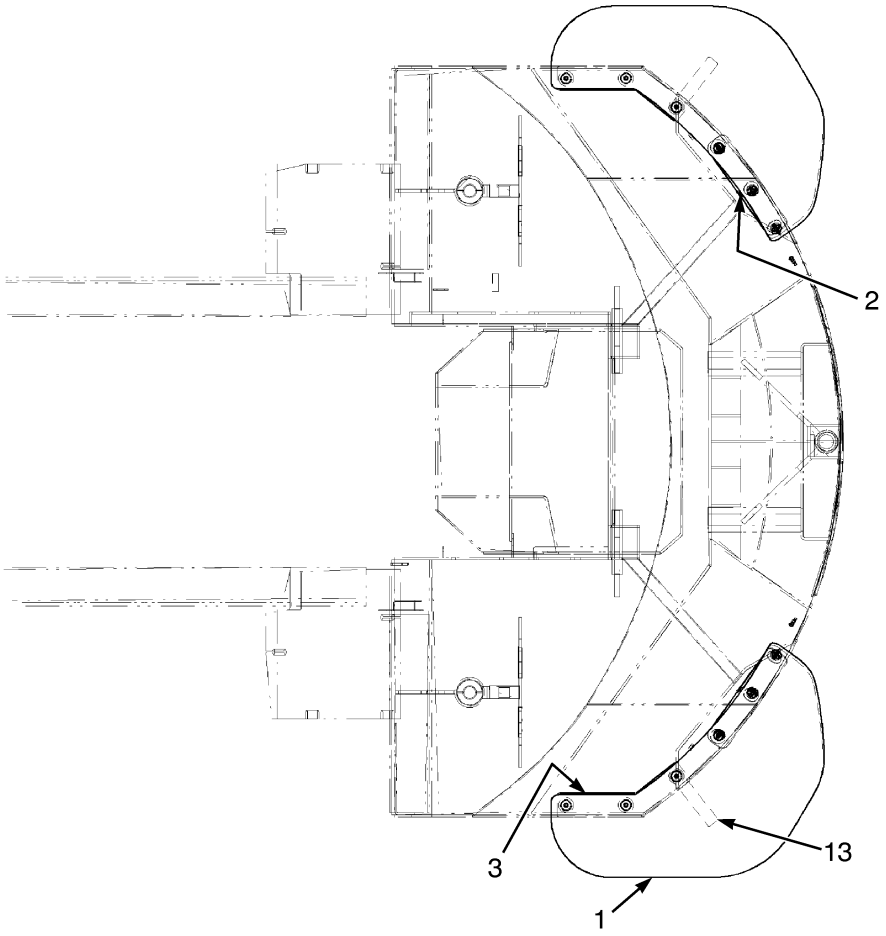
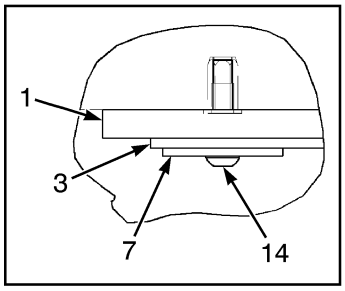
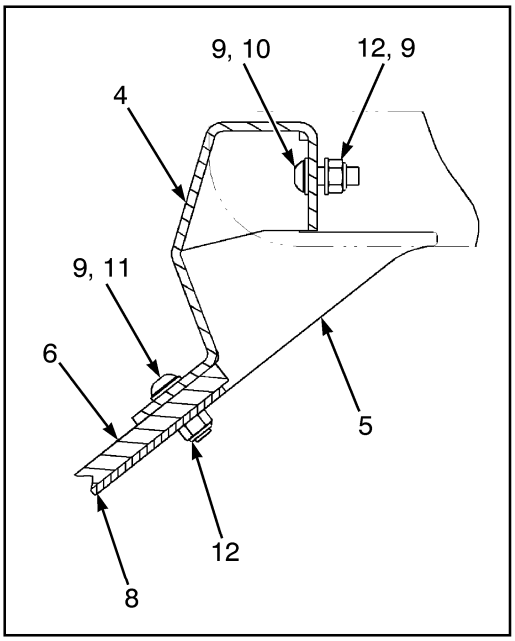
MUDFLAPS AND ATTACHING PARTS (FIGURE 12-6)







HP000991

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MUDFLAPS AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1648462	Mud Flap	2
2	1648463	Plate	2
3	1648464	Plate	2
4	1662262	Plate	1
5	1648879	Plate	1
6	1648880	Mud Flap	2
7	1639878	Washer	12
8	1662264	Plate	2
9	1581557	Washer	22
10	1597444	Capscrew	8
11	1648945	Capscrew	6
12	302401	Locknut	14
13	1670808	Plate	2
14	1606909	Capscrew	12

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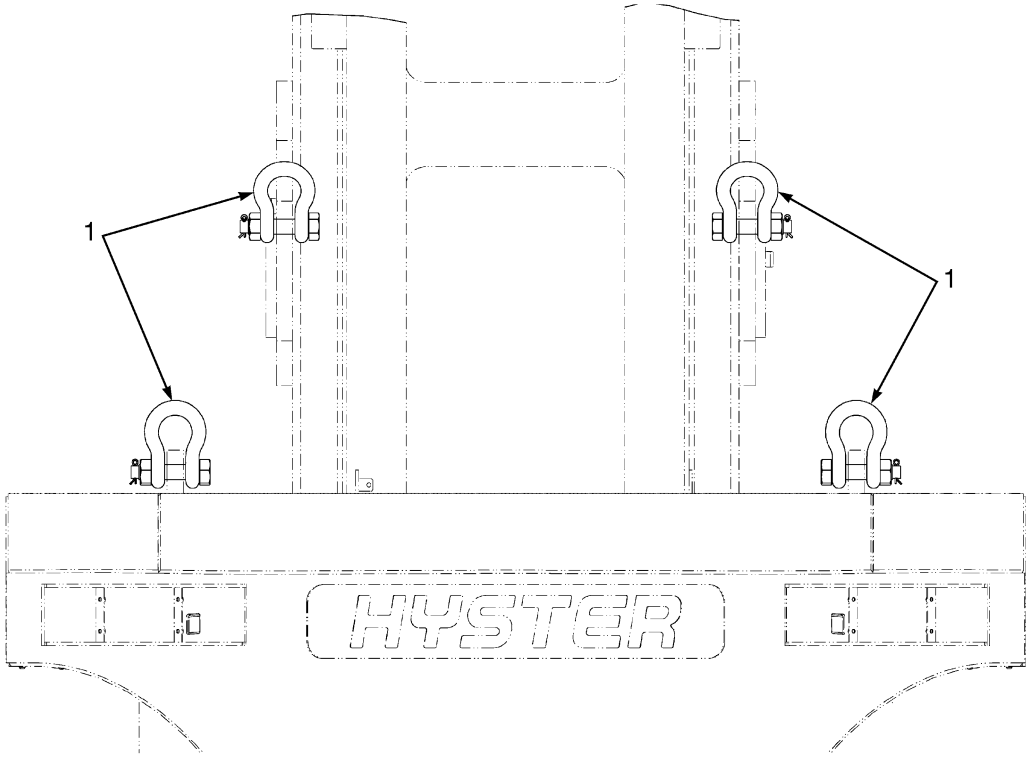
BOW-SHACKLES (FIGURE 12-7)



BP120577

ITEM	PART NO.	DESCRIPTION	QTY
1	1653943	Shackle	4

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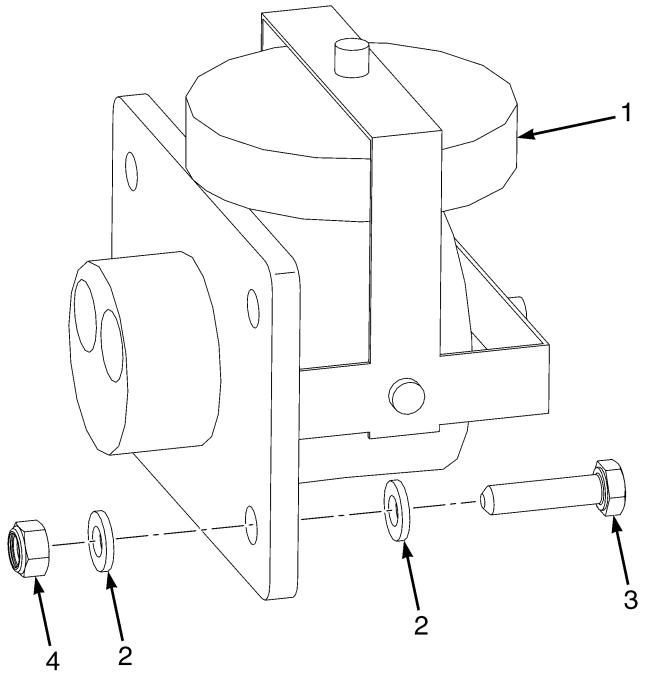
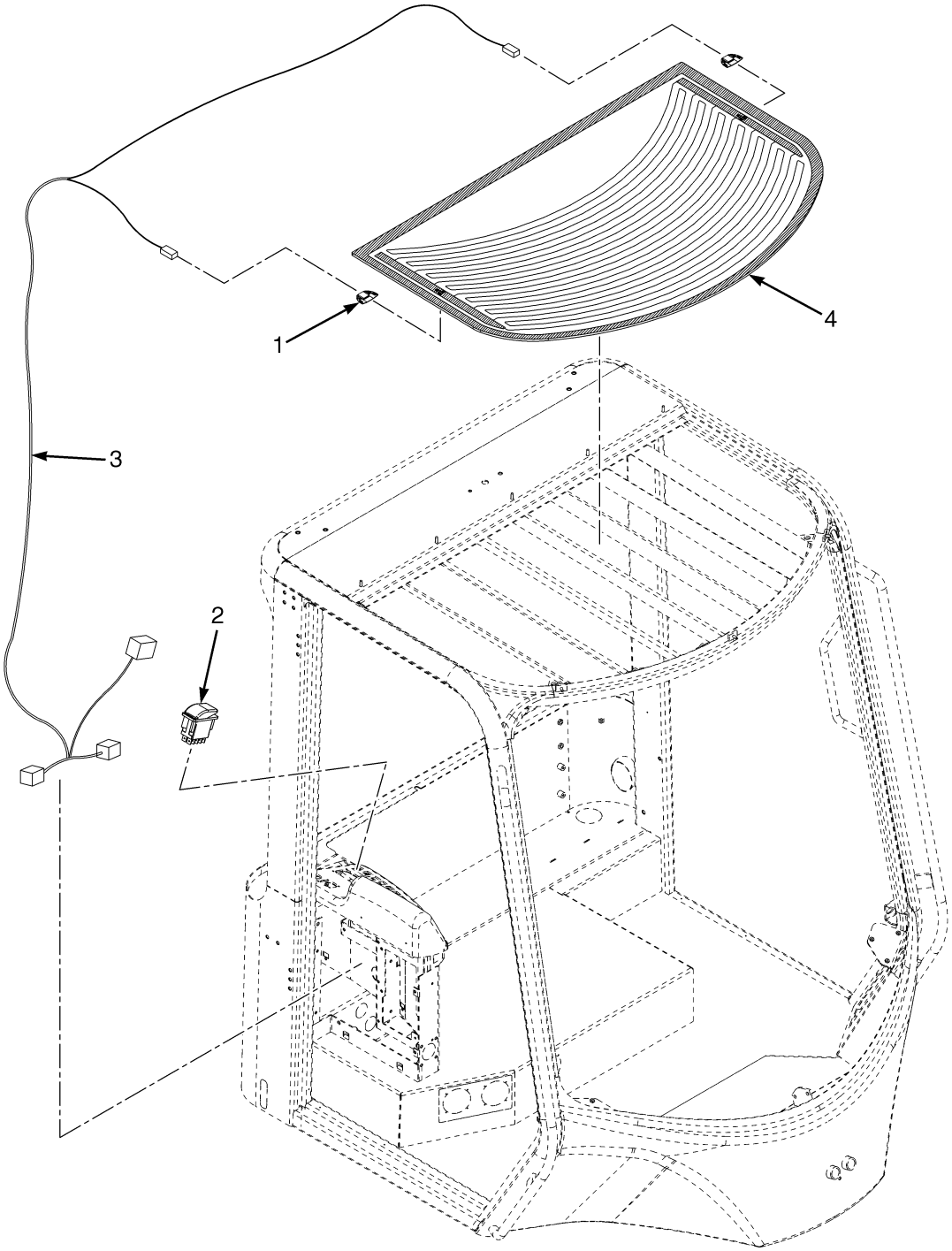
JUMP START AID (FIGURE 12-8)



HP082022

ITEM	PART NO.	DESCRIPTION	QTY
1	4002097	Connector	1
1	4002098	Connector	1
1	55874	Terminal	2
2	320156	Washer	8
3	287816	Capscrew	4
4	302399	Nut	4

HEATED TOP WINDOW (FIGURE 12-9)
CLIMATE CONTROL CAB



HP000993

ITEM	PART NO.	DESCRIPTION	QTY
1	4016098	Clip	2
2	4013895	Switch (Top Window Heater)	1
3	4016097	Wire Harness (Heated Roof Window)	1
4	4016096	Window	1

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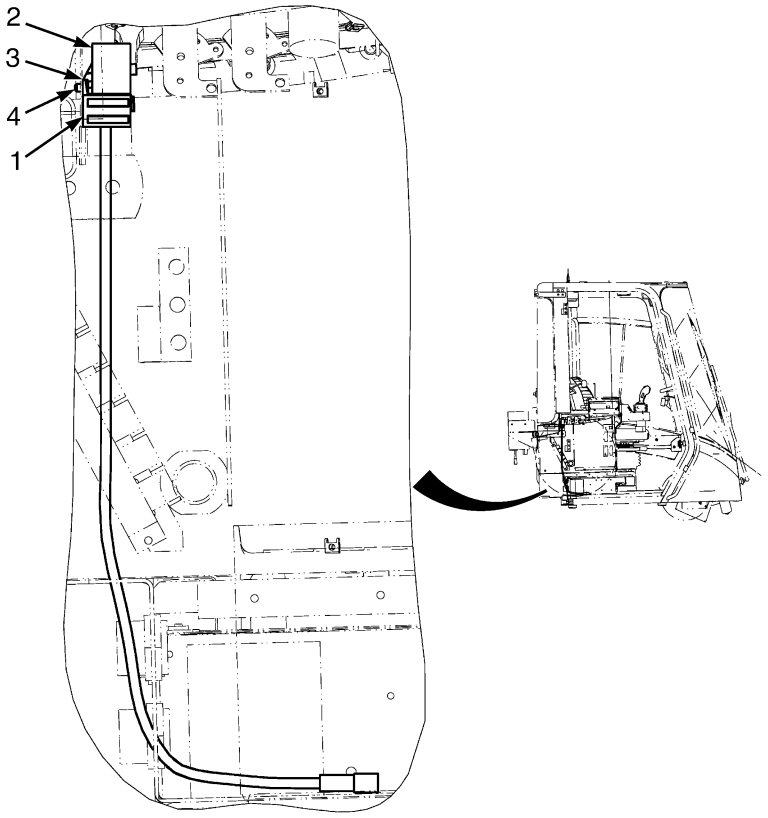
EMPTY SEAT ENGINE SHUTDOWN (FIGURE 12-10)



HP000893

ITEM	PART NO.	DESCRIPTION	QTY
1	~~4006988~~		
	4616361	Wire Harness (Empty Seat Engine Stop Relay)	1
1	1347224	Socket -Relay	1
1	1489655	Connector (4 Way)	1
2	4006987	Relay (Adjustable Timing)	1
3	320156	Washer	1
4	292500	Capscrew	1

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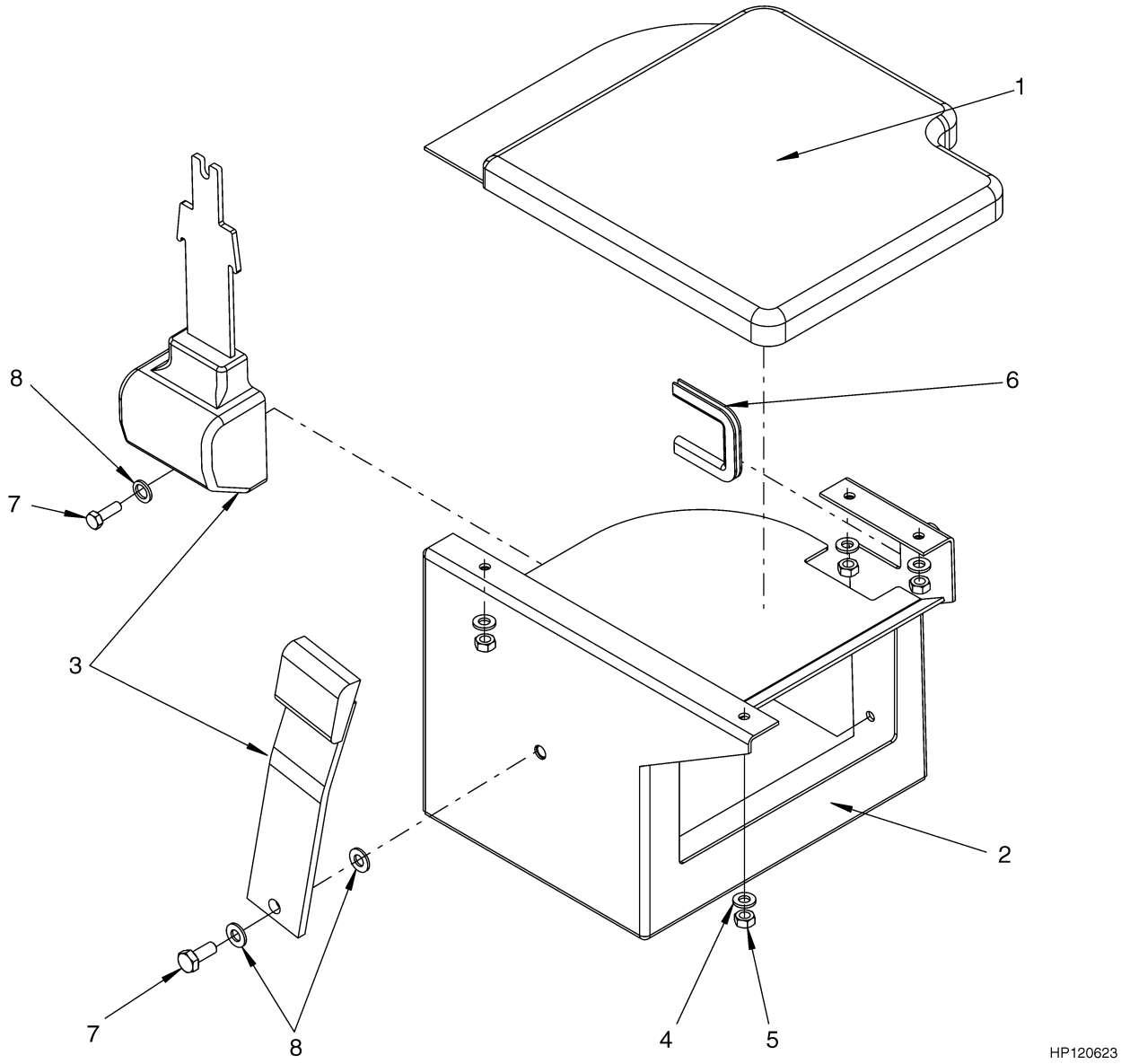
TRAINING SEAT (FIGURE 12-11)



ITEM	PART NO.	DESCRIPTION	QTY
	1497822	Seat-Non Suspension (Training Seat)	1
1	1499936	Cover (Top)	1
2	1506677	Seat Assy (Bottom)	1
3	1461081	Kit-Seat Belt	1
4	320156	Washer	4
5	136687	Nut	4
6	1498336	Edge Protector	AR
7	293628	Capscrew	2
8	1498338	Washer	3

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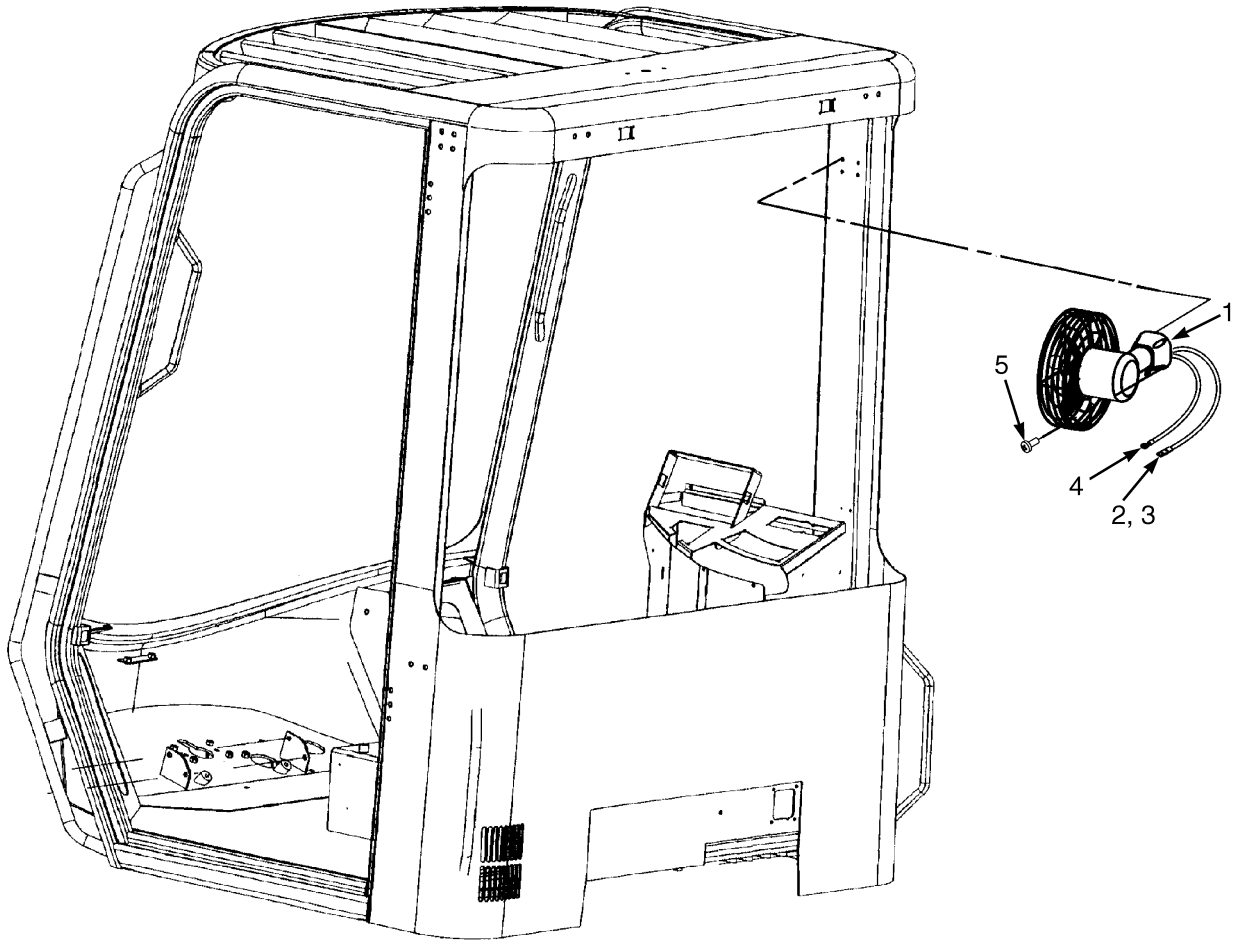
CAB RECIRCULATING FAN (FIGURE 12-12)
CLOSED CAB ONLY



HP000921

ITEM	PART NO.	DESCRIPTION	QTY
1	1312226	Fan Assembly	1
1	1307755	Fan	1
2	181045	Connector Body	1
3	134810	Terminal	1
4	1301783	Ring Terminal	1
5	1468319	Screw	4

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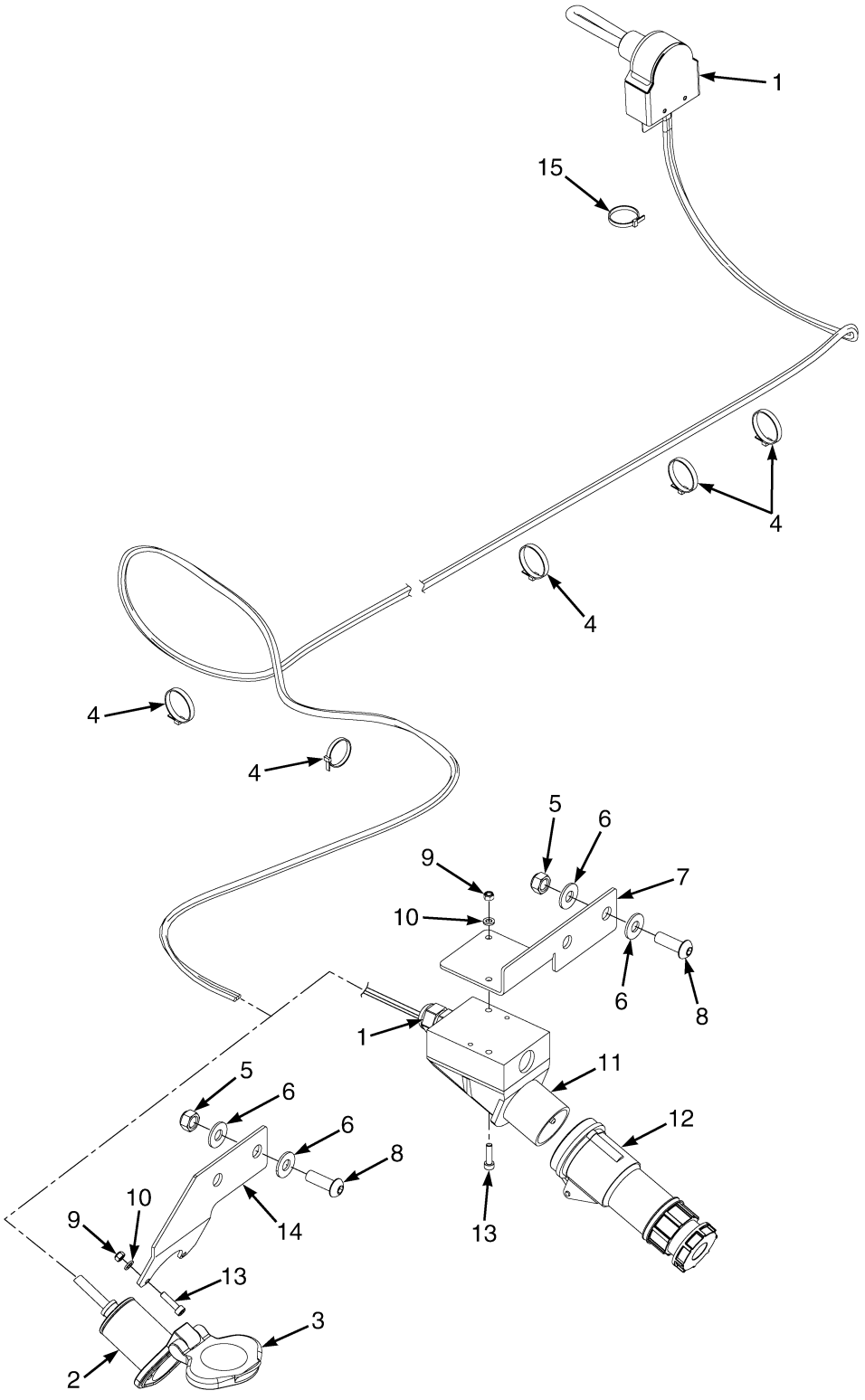
ENGINE BLOCK HEATER (FIGURE 12-13)



HP091409

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ENGINE BLOCK HEATER

KEY:
A: 120 Volt
B: 220 Volt

ITEM	PART NO.	DESCRIPTION	QTY A	QTY B
1	1625540	Engine Heater (120 Volt)	1	..
1	1625944	Engine Heater (240 Volt)	..	1
1	1628959	Heat Shield	1	1
1	1628960	Cable (120V)	1	..
1	1628965	Cable (240V)	..	1
1	1628961	Clamp	1	1
1	1628962	Heater Plug, 120V	1	..
1	1628966	Heater Plug, 240V	..	1
1	1628967	Gland	..	1
2	1628964	Housing , Plug	1	..
3	1628963	Cover , Hinge	1	..
4	137852	Strap Clamp	5	5
5	302401	Locknut	2	2
6	1581558	Washer	4	4
7	1650570	Plate	..	1
8	1597444	Capscrew	2	2
9	302398	Locknut	2	2
10	320155	Washer	2	2
11	1507089	Connector (220 Volt, Male)	..	1
12	1507090	Connector (220 Volt, Female)	..	1
13	293744	Screw	2	2
14	1650569	Plate	1	..
15	114312	Strap Clamp	1	1

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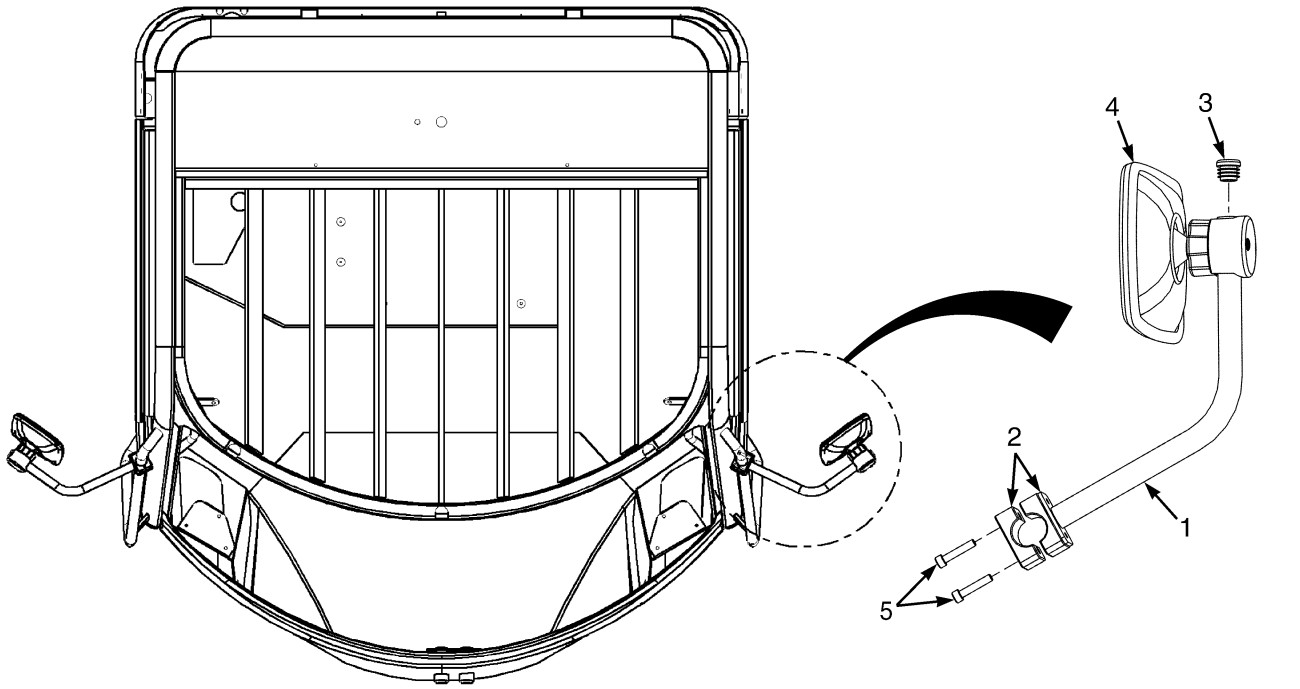
MIRRORS (FIGURE 12-14)



HP000936

ITEM	PART NO.	DESCRIPTION	QTY
1	1678201	Bracket Wldmt	2
2	1678202	Hose Clamp	2
3	1678203	End Plug	2
4	1678204	Mirror	2
5	4018167	Capscrew	4

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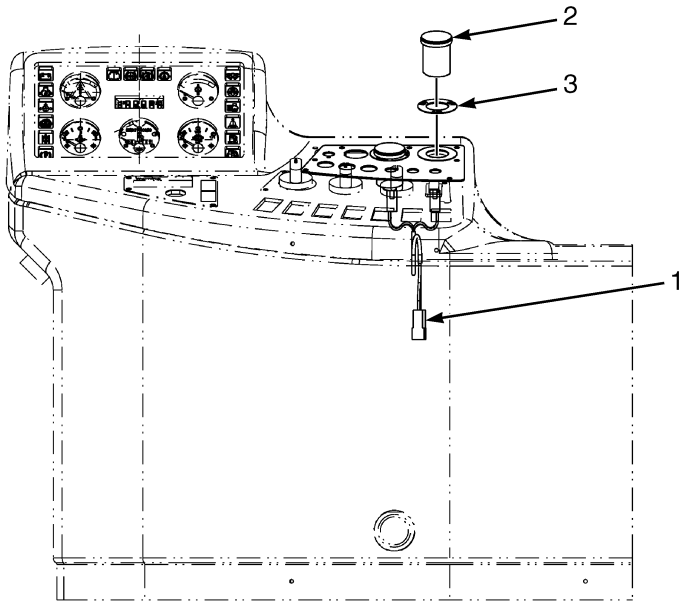
SECOND 12V SOCKET OPTION (FIGURE 12-15)
CLIMATE CONTROL CAB



ITEM	PART NO.	DESCRIPTION	QTY
1	4011628	Wire Harness (Second 12V Socket)	1
1	1465378	Connector Body	2
1	1634294	Connector	1
2	1566764	Socket (12V)	1
3	1558027	Label (12V)	1

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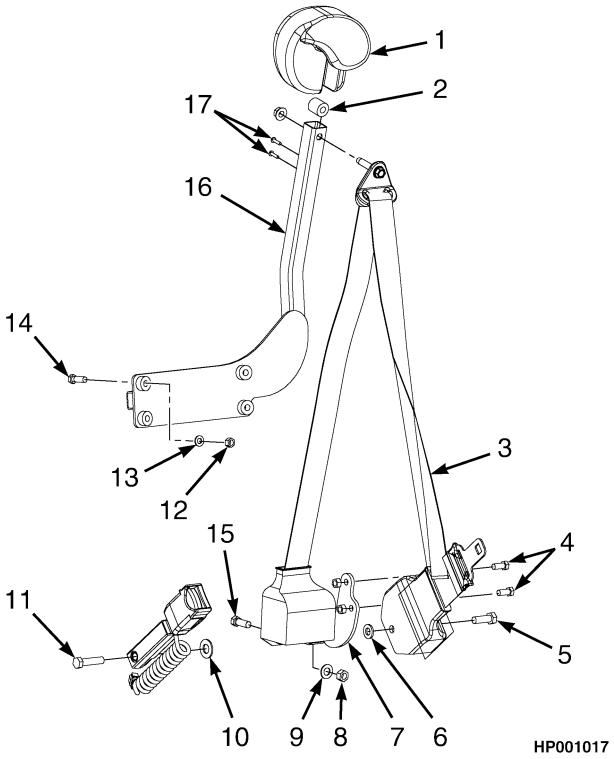
THREE-POINT SEAT BELT (FIGURE 12-16)



ITEM	PART NO.	DESCRIPTION	QTY
	4021929	Seat Belt (Three-Point)	1
1	4048817	Cushion	1
2	4048820	Spacer	1
3	4043302	Seat Belt	1
4	4048813	Bolt	2
5	~~4048814~~		
	292528	Capscrew	1
6	. . . . .	Washer (Hardened)	1
7	4051284	Plate	1
8	1512538	Nut	1
9	4048823	Washer	1
10	4048824	Washer	1
11	4048815	Bolt	1
12	~~4048818~~		
	1483010	Nut	6
13	4048822	Washer	4
14	4048816	Bolt	4
15	16806	Capscrew	1
16	4048821	Seat Belt	1
17	1513088	Screw	2

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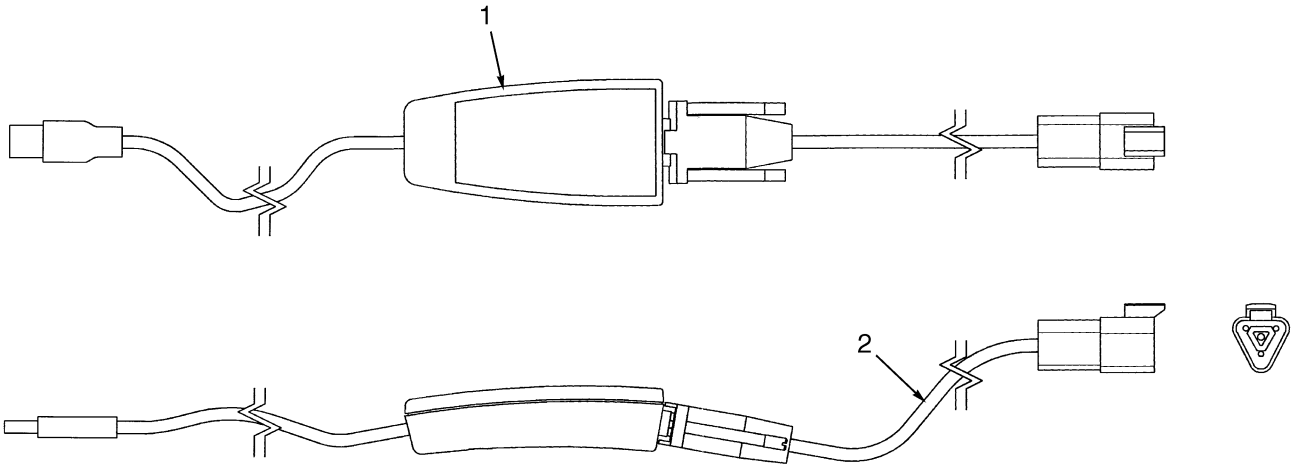
DIAGNOSTICS INTERFACE CABLE (FIGURE 12-17)



BP080152

ITEM	PART NO.	DESCRIPTION	QTY
	1534010	Cable Assembly (Interface)	1
1	1532578	Kit-Cable For Laptop Pc	1
2	1534009	Kit-Cable For Laptop Pc	1
2	1519226	Body	1
2	1497275	Shroud	1
2	1519227	Terminal	3
2	1542986	Connector	1
2	1543689	Connector	1
2	1532663	Connector (Secondary Lock)	1
2	1531312	Terminal	3

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13 FIELD CONVERSION KITS

SECTION 13
FIELD CONVERSION KITS

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PARK BRAKE KITS	13-2
TELEMETRY KITS	13-2

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LOUVER - HEAVY DUTY AIRCO

DESCRIPTION	PART NUMBER
Kit (Louver - Heavy Duty Airco)	4047932

PARK BRAKE KITS

DESCRIPTION	PART NUMBER
Kit-Park Brake (Alarm)	4065058
Kit-Park Brake (Current Draw Avoidance)	4085753

TELEMETRY KITS

DESCRIPTION	PART NUMBER
Telemetry Kit -BT FM1 W/GSM FLT	4063831
Telemetry Kit -BT FM1 W/WIFI FLT	4063832
Telemetry Kit -BT INTERLOCK	4063835
Telemetry Kit -BT ISO PROX CARD READER	4078023
Telemetry Kit -BT HID STD PROX CARD READER	4078024
Telemetry Kit -BT ICLASS/MIFARE PROX CARD READER	4078025
Telemetry Kit -BT SEAT BELT	4063841
Telemetry Kit -BT HYSTER CHECKLIST	4063842

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