

## SECTION 4 - POWER PACKAGE

DESCRIPTION	ASSEMBLY NUMBER
Air Cleaner Assembly	A84927A
Alternator and Engine Mounting Assembly	A84776C
Alternator and Wheelmotor Cooling Assembly	A84212B
Alternator, Drive System	56123
Cooling Assembly, Alternator and Wheelmotor	A84212B
Diesel Engine	84942B
Drive System Alternator	56123
Electrical Assembly, Engine	A85158A
Engine - Diesel	84942B
Engine and Alternator Mounting Assembly	A84776C
Engine Electrical Assembly	A85158A
Engine Piping Assembly	A84963A
Exhaust Assembly with Mufflers	A84925A
Mufflers and Exhaust Assembly	A84925A
Piping Assembly, Engine	A84963A
Piping Assembly, Radiator	A84857A
Radiator Mounting Assembly	A84010H
Radiator Piping Assembly	A84857A
Wheelmotor and Alternator Cooling Assembly	A84212B

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**\* P/N 56123 \***  
**Drive System Alternator**

\*See Service Part Drawing



UNIT RIG

ENGINEERING

DRIVE SYSTEM ALTERNATOR

56123

E.N. 90219

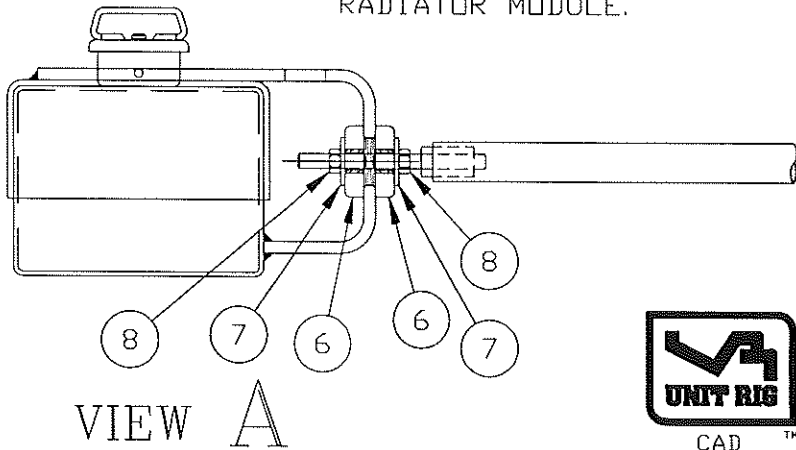
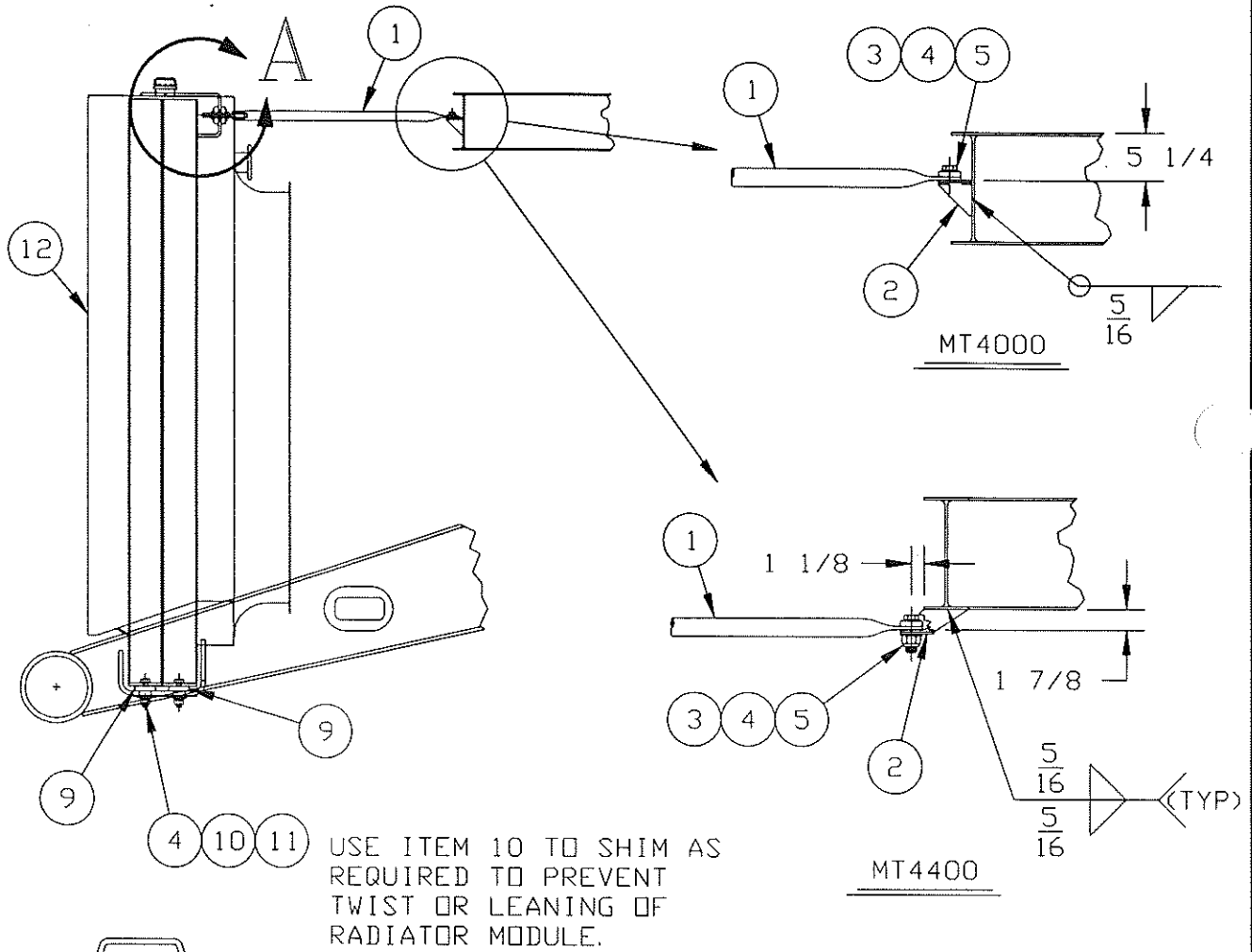
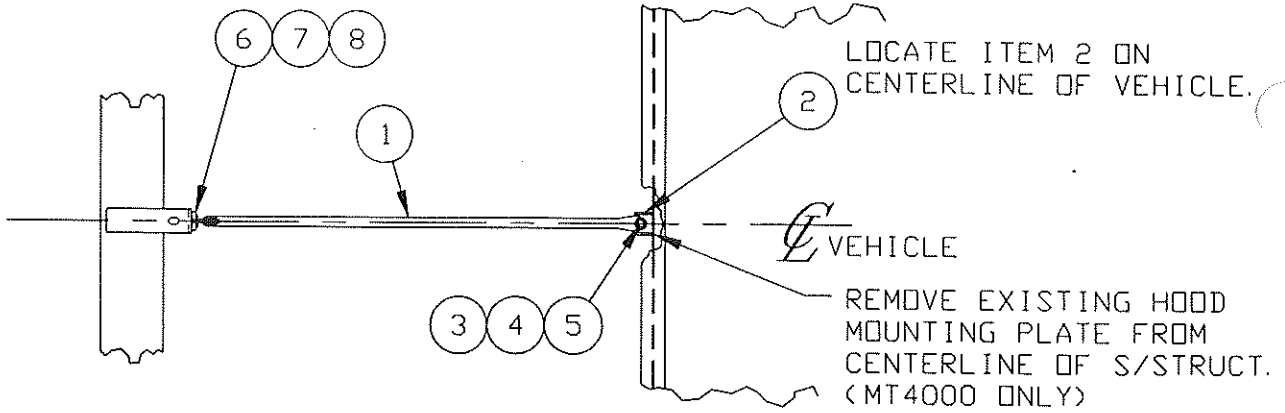
SHEET 1 OF 1

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DR. MARTENS  
 ENG. APP. DODEN  
 REL. CK. ELLIS

A84010



RADIATOR MOUNTING ASSEMBLY

SHEET 1 OF 1

A84010

88457  
 88054  
 87799  
 E.N. NO.

A 84010 H

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ITH	QTY PER ASSY	COMPONENT	DESCRIPTION
001	1	60260W	BRACE, RADIATOR
002	1	84248A	BRKT-RADIATOR SUPPORT
003	1	10065	CAPSCR, HX, 3/4-10NC X 2-1/2 GR 5
004	5	12185	NUT-HEX, FLXLC 3/4-10
005	2	10169	WSHR, FL, 3/4 X 2.000 OD
006	2	17400	MOUNT-CENTER BOND
007	2	948464	PLATE-PRESSURE
008	2	16403	NUT-HEX, FLXLC 5/8-11
009	4	947197	MOUNT SHOCK
010	12	84448A	WASHER-SNUBBING
011	4	10072	CAPSCR, HX, 3/4-10NC X 4-1/2 GR 5
012	1	* 84909B *	RADIATOR ASSEMBLY MT4400 W/16V4000 ENG 02500HP
099	REF 1	A84010	DWG ONLY, RAD MTG ASSY

MT4400 W/16V4000 ENG

DR. T. DODEN

ENG. APP. *WER*

REL. CK. *RU*

90823  
E.N. NO.

\*SEE SERVICE PARTS



RADIATOR MTG ASSY

SHEET 1 OF 1  
ASSY.  
NO. A84010H

E.N. NO.  
88474

REL. CR.  
MASSIE  
ENG. APP.  
T. DODDEN  
DR.

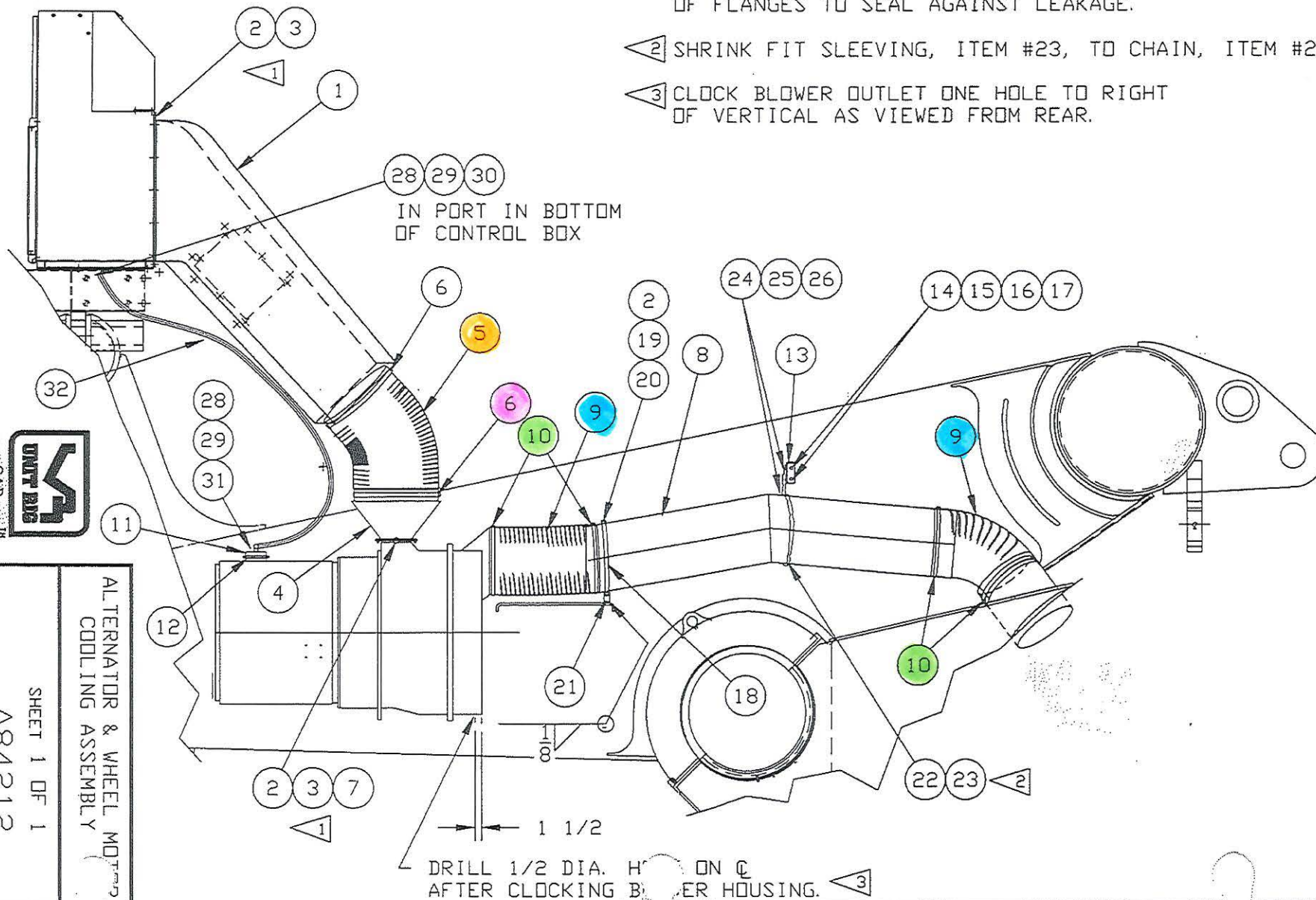
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ADVERT

A84212

- 1 USE ITEM #27 AROUND FULL PERIMETER OF FLANGES TO SEAL AGAINST LEAKAGE.
- 2 SHRINK FIT SLEEVING, ITEM #23, TO CHAIN, ITEM #22.
- 3 CLOCK BLOWER OUTLET ONE HOLE TO RIGHT OF VERTICAL AS VIEWED FROM REAR.



A84212B

AVERT

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DR.  
DODEN

ENG. APP.

REL. CK.  
ELLIS

U926

90168

E.N. NO.

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	1.00	79410N	DUCT-AIR
2	18.00	10164	WSHR, FL, 3/8 X 1.000 OD
2	10.00	10164	WSHR, FL, 3/8 X 1.000 OD
2	2.00	10164	WSHR, FL, 3/8 X 1.000 OD
3	18.00	17413	NUT-HEX, FLXLC 3/8-16
3	10.00	17413	NUT-HEX, FLXLC 3/8-16
4	1.00	78775A	TRANSITION-INT DUCT
5	1.00	29038 40910078	HOSE-FLEX 20 ID X 36 LG
6	1.00	22737 40552296	CLAMP HOSE
6	1.00	22737	CLAMP HOSE
7	10.00	10013	CAPSCR, HX, 3/8-16NC X 1-1/4 GR 5
8	1.00	80819K	DUCT-AIR, 16" DIA.
9	2.00	52622 40553026	HOSE-FLEX 16ID X 24LG
10	4.00	17921 40552236	CLAMP HOSE HEAVY DUTY
11	1.00	79732F	CAP, ALTERNATOR
12	1.00	951715	CLAMP-5ID 3/8 U-BOLT
13	1.00	81226F	SUPPORT-ALT DUCT
14	2.00	980500 40552012	PAD, BOLTING 1/2 NC 1-1/4 OD X 3/4 LG
15	2.00	10027	CAPSCR, HX, 1/2-13NC X 1 GR 5
16	2.00	22465	WSHR, FL, 1/2
17	2.00	10182	WSHR, LK, HELI, 1/2 X .873 OD
18	2.00	72429C	SUPPORT-TUBE
19	2.00	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
20	2.00	10126	NUT, HX, 3/8-16NC STL GR 5
21	1.00	8258	CLIP
22	65.00	21956	CHAIN BULK .18 PROOF
23	55.00	20871	SLEEVE BULK HT SHRINK 432-9558 1" TO 1/2"
24	2.00	10002	CAPSCR, HX, 1/4-20NC X 1 GR 5
25	2.00	15675	NUT-HX, CRNLK 1/4-20NC STD GR B
26	4.00	10162	WSHR, FL, 1/4 X 0.625 OD
27	1.00	22312	SILICONE RTV RUBBER
28	1.00	60980A	NIPPLE-HALF, PIPE 3/4 X 1-3/4

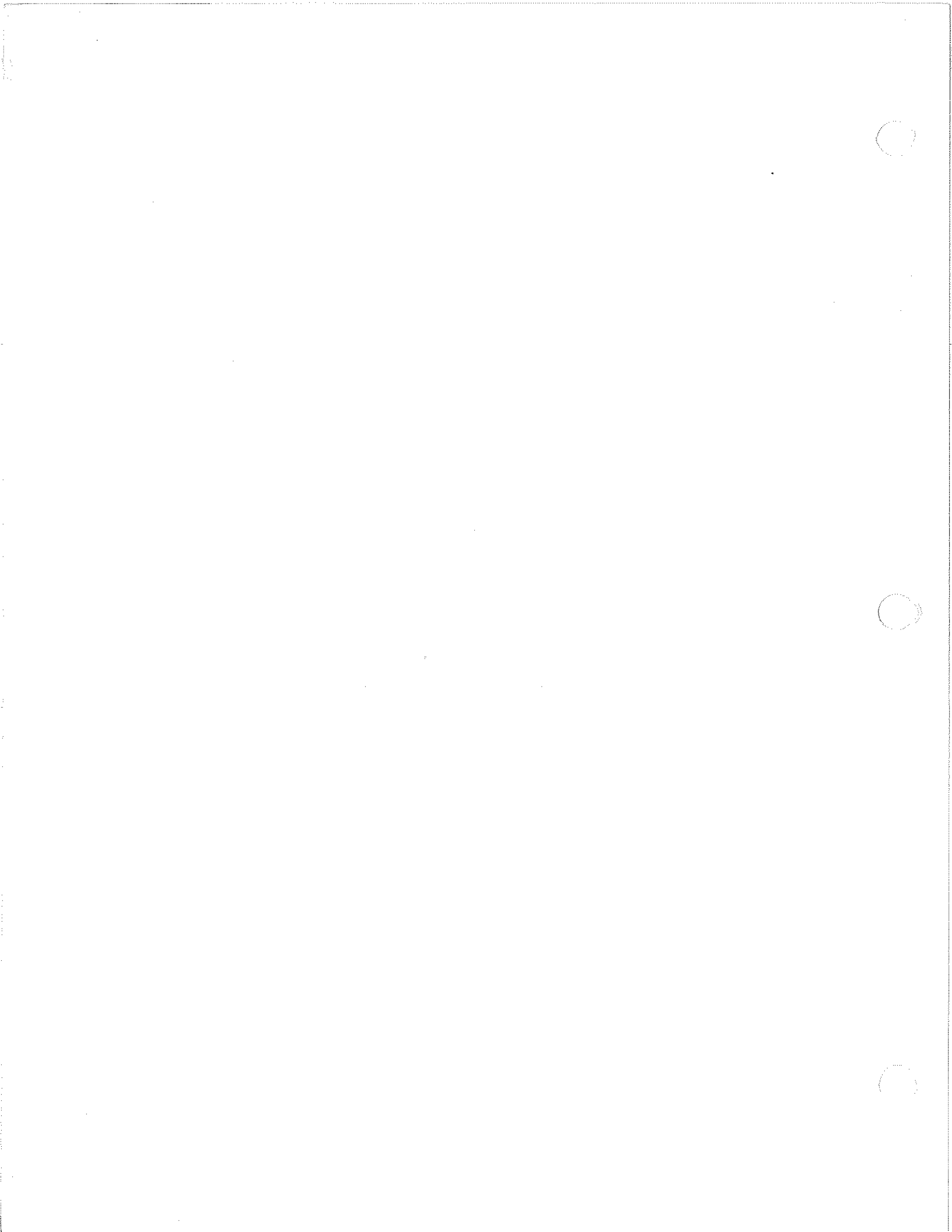


ALT & WHL COOL ASSY

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SHEET 1 OF 2

A84212B



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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
29	2.00	18287	CLAMP HOSE
30	1.00	10200	BUSH, 1-1/4X3/4NPT
32	150.00	19190	MI 150PSI HEX
50	.00	A84212	HOSE BULK GATES 19B DWG ONLY, ALT/WHL COOL

MT4400 W/STATEX III  
 W/FOLLOWING ENGINES:  
 DDC 16V149  
 DDC16V4000  
 CUMMINS K2000E  
 CUMMINS QSK60

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DODEN

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REL. CK.  
ELLIS

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E.N. NO.



CAD™

ALT & WHL COOL ASSY

SHEET 2 OF 2

A84212B

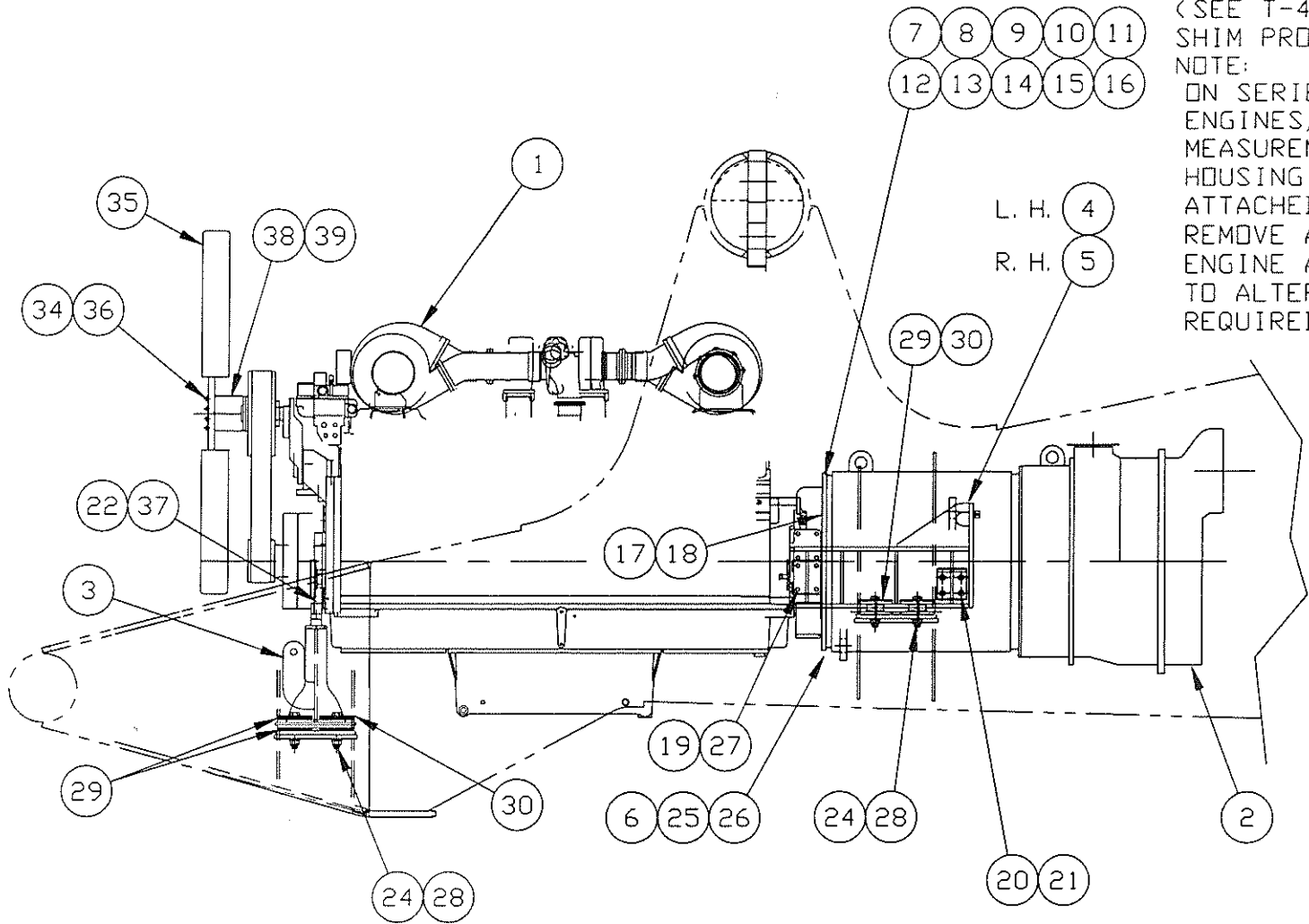
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A84776

REL. CK. J. ELLIS  
 ENG. APP. SHAW  
 DIR. T. DODDEN

E.N. NO. 89840  
 90309  
 90152

(SEE T-4831 FOR SHIM PROCEDURE)  
 NOTE:  
 ON SERIES 4000 ENGINES, MAKE ALL MEASUREMENTS WITH HOUSING ADAPTER ATTACHED TO ENGINE. REMOVE ADAPTER FROM ENGINE AND ATTACH TO ALTERNATOR USING REQUIRED SHIMS.



NOTE: APPLY THREAD LOCKING COMPOUND (P/N 2576) TO ITEMS 27 PER T-4



ENGINE & ALTERNATOR MOUNTING ASSEMBLY  
 SHEET 1 OF 1  
 A84776

A84776C

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	REF 1	ENGINE	SEE TRUCK SPEC
002	REF 1	ALTERNATOR	SEE TRUCK SPEC
003	1	84219E	SUPPORT, ENGINE FRONT 16V4000 ENG.
004	1	80253U	BRACKET, ENG/ALT L.H. 16V4000 W/GTA26
005	1	80253V	BRACKET, ENG/ALT R.H. 16V4000 W/GTA26
006	1	68174B	GUARD-GENERATOR
007	1	62873E	SHIM, .010 (2PCS=1 P/N) <i>399501</i> DDC4000 ENG FLYWHL/ GE ALTERNATOR
008	1	62873F	SHIM, .005 (2PCS=1 P/N) <i>399493</i> DDC4000 ENG FLYWHL/ GE ALTERNATOR
009	1	62873G	SHIM, .020 (2PCS=1 P/N) <i>399485</i> DDC4000 ENG FLYWHL/ GE ALTERNATOR
010	4	65883A	SHIM (.040)
011	4	65884A	SHIM (.060)
012	4	951674	SHIM, GEN TO HOUSING <i>399451</i>
013	4	951675	SHIM GEN TO HOUSING <i>399444</i>
014	4	951676	SHIM GEN TO HOUSING <i>62677</i>
015	REF 12	14569	CAPSCR, HXSKT, 5/8-11NC X 2-1/2 GR 8
017	16	14569	CAPSCR, HXSKT, 5/8-11NC X 2-1/2 GR 8
019	12	10183	WSHR, LK, HELI, 5/8 X 1.079 OD
020	8	10095	CAPSCR, HX, 1-8NC X 3-1/2 GR 5
021	8	10186	WSHR, LK, HELI, 1" X 1.661 OD
022	6	10065	CAPSCR, HX, 3/4-10NC X 2-1/2 GR 5
024	8	10099	CAPSCR, HX, 1-8NC X 5-1/2 GR 5
025	2	10026	CAPSCR, HX, 1/2-13NC X 3/4 GR 5
026	2	10182	WSHR, LK, HELI, 1/2 X .873 OD
027	12	55574-80	CAPSCREW HEX H, M16 X 80MM LG, GR10.9
028	8	12333	NUT-HEX, FLXLC 1-8
029	16	77779A	MOUNT-CENTER BONDED
030	8	951347	WASHER
034	6	10183	WSHR, LK, HELI, 5/8 X 1.079 OD
035	1	56035	FAN, RADIATOR 68" FOR 5/8" MTG BOLTS
036	6	26118	CAPSCR, HX, 5/8-11NC

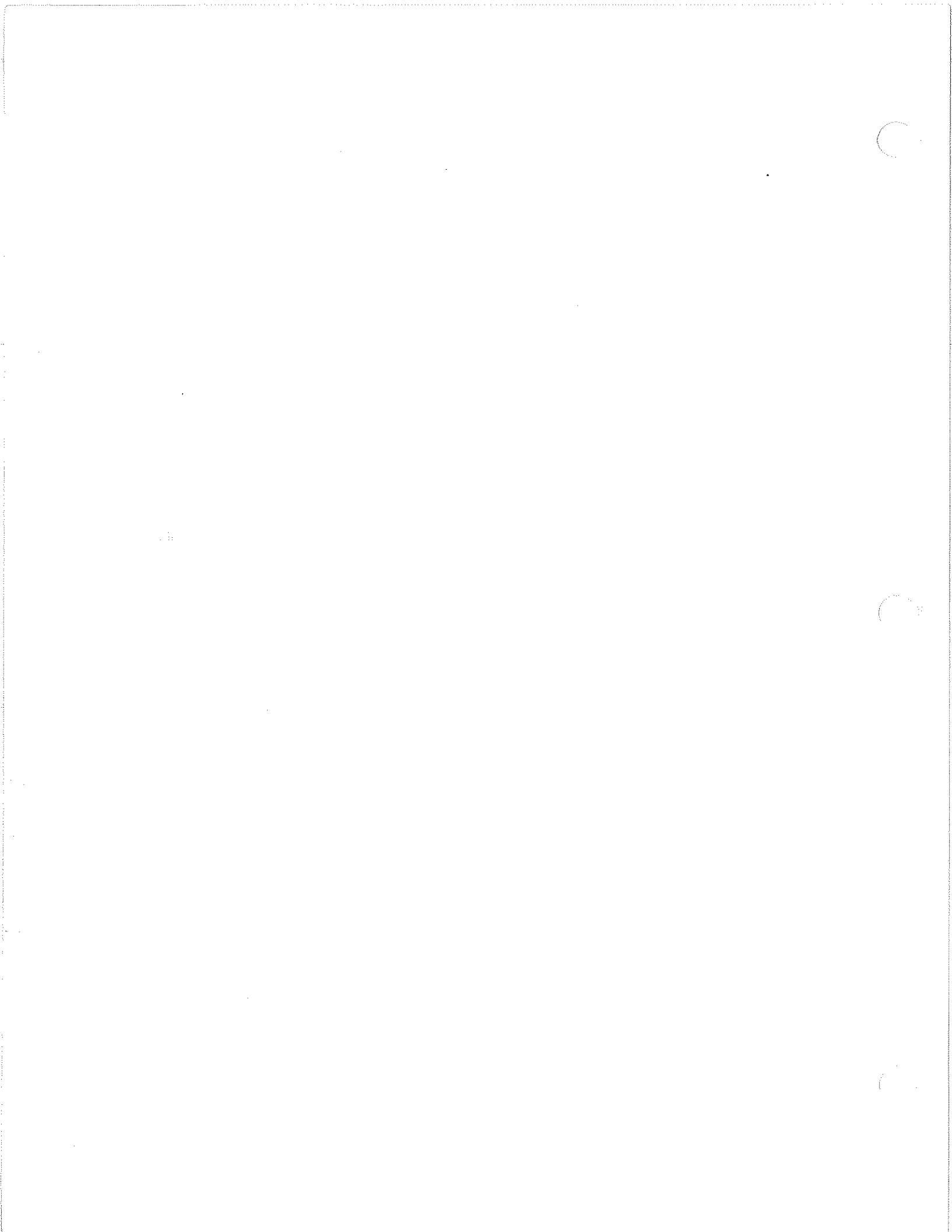
DR.  
**T. DODEN**  
ENG. APP.  
*WFR*  
REL. CK.  
*RM*

**90309**  
E.N. NO.



ENGINE & ALT MTG ASSY

SHEET / OF 2  
ASSY.  
NO. A84776C

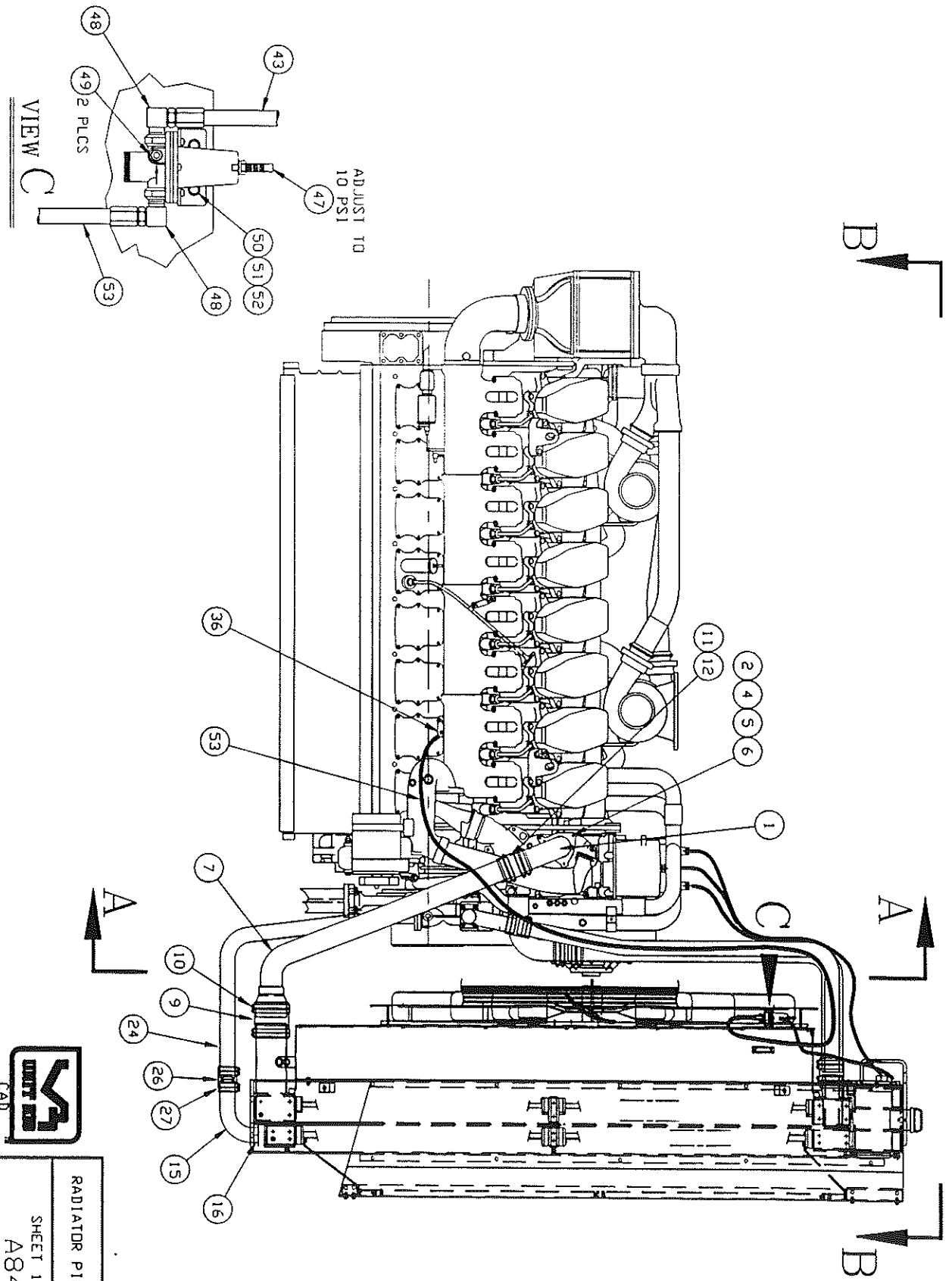




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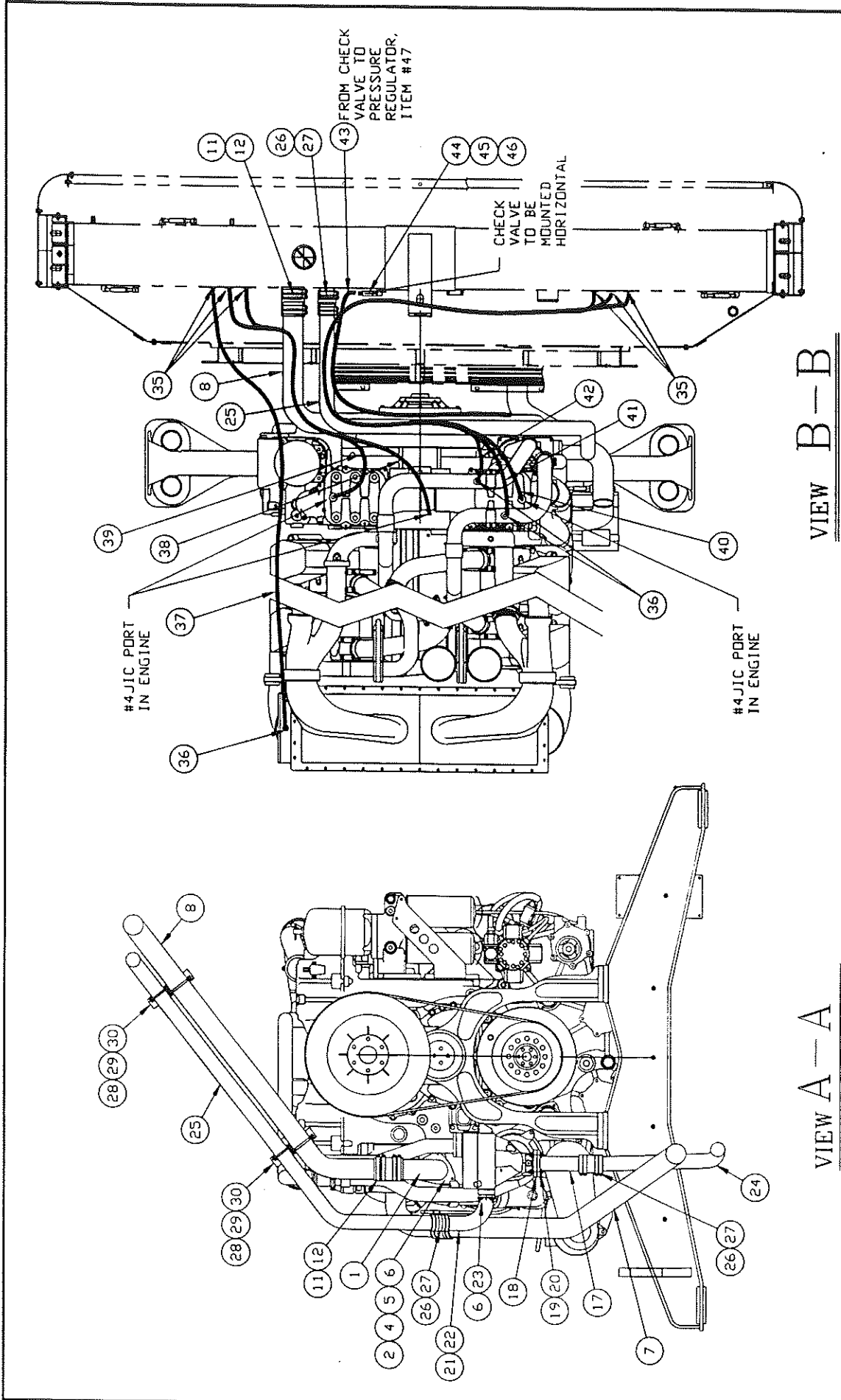
DATE: 10/80  
BY: T. DODDEN  
MFR: WFR  
REV. TO: J. ELLIS

E.N. NO.: 90459  
90928



RADIATOR PIPING ASSY

SHEET 1 OF 2  
A84857



VIEW A--A

VIEW B--B

RADIATOR PIPING ASSY  
 SHEET 2 OF 2  
 A84857



A84857

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ALVCR

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DR.  
DODEN

ENG. APP.

REL. CK.  
ELLIS

90928

90459

E.N. NO.

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	2.00	84885A	ELBOW, 3-1/2
2	2.00	84884A	FLANGE, COOLANT OUTLET
4	2.00	1023693	O-RING, (DWG 1101783) SIZE #241 FOR #56 SF
5	7.00	55883-40	CAPSCR, HXHD, M10X40MM 1.5 PITCH UNRC, 8.8
6	11.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
7	1.00	84886F	PIPE, RAD. LOWER HTC
8	1.00	84886H	PIPE, RAD. UPPER HTC
9	1.00	52997	HOSE RADIATOR 5" ID X 8-1/2" LG
10	8.00	1002389	CLAMP (DWG 1101600)
11	3.00	60702A	HOSE RADIATOR 3-1/2" ID X 6" LG
12	12.00	1002396	CLAMP (DWG 1101600)
15	1.00	84885B	ELBOW, 2-1/2
16	1.00	1004455	KIT, FLG (DWG 1101671) SIZE 40 CODE 61
17	1.00	84885G	ELBOW, LTC INLET
18	.00	916417	O-RING METRIC
19	4.00	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
20	4.00	17413	NUT-HEX, FLXLC 3/8-16
21	1.00	84885F	ELBOW, LTC OUTLET
22	.00	85007A	GASKET, LTC OUTLET
23	4.00	55883-30	CAPSCR, HXHD, M10X30MM 1.5 PITCH UNRC. 8.8
24	1.00	84886G	PIPE, RAD. LOWER LTC
25	1.00	84886J	PIPE, RAD. UPPER LTC
26	4.00	56125	HOSE, RADIATOR 2-1/2" ID X 6" LONG
27	16.00	1002391	CLAMP (DWG 1101600)
28	2.00	85005A	PLATE, CLAMP
29	2.00	1032030	CLAMP (DWG 1101553) 2-1/2 DIA
30	2.00	1032032	CLAMP (DWG 1101553) 3-5/8 DIA
35	6.00	29169	ADAPTER, STRAIGHT #4 JIC, MALE X 1/2 NPTF, MALE
36	.00	56172	ADAPTER, STR. METRIC #4 JIC MALE X M14 X 1.5, MALE
37	1.00	1025131	HOSE ASSY FC300-04 185" LG W/ 411 FTGS.
38	1.00	1025124	HOSE ASSY FC300-04 109" LG W/ 411 FTGS.



RADIATOR PIPING ASSY

SHEET 1 OF 2

A84857A

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
39	1.00	1025124	HOSE ASSY FC300-04 109" LG W/ 411 FTGS.
40	1.00	1025127	HOSE ASSY FC300-04 158" LG W/ 411 FTGS.
41	1.00	1025127	HOSE ASSY FC300-04 158" LG W/ 411 FTGS.
42	1.00	1025127	HOSE ASSY FC300-04 158" LG W/ 411 FTGS.
43	1.00	20582	HOSE ASSY 211-04 50" LG W/319 FTGS.
44	1.00	1001310	ADAPTER 90 1/4 NPT MALE X 1/4 NPT MALE
45	1.00	28661	VALVE-CHECK (1/4 NPT)
46	1.00	986180	ADAPTER, STRAIGHT
47	1.00	53699	REGULATOR-AIR PRESS
48	2.00	986205	ADAPTER, 90 DEG
49	2.00	10331	PLUG, PIPE 1/4 NPT 2000 PSI-SQ HEAD
50	2.00	10001	CAPSCR, HX, 1/4-20NC X 3/4 GR 5
51	2.00	10162	WSHR, FL, 1/4 X 0.625 OD
52	2.00	55863	NUT, INSERT, 1/4-20UNC
53	1.00	1025147	HOSE ASSY FC300-04 114" LG W/ 411 & 190296 FTGS.
99	.00	A84857	DWG ONLY, RAD PIPING

DR. DODEN

ENG. APP.

REL. CK.

MT4400 W/16V4000

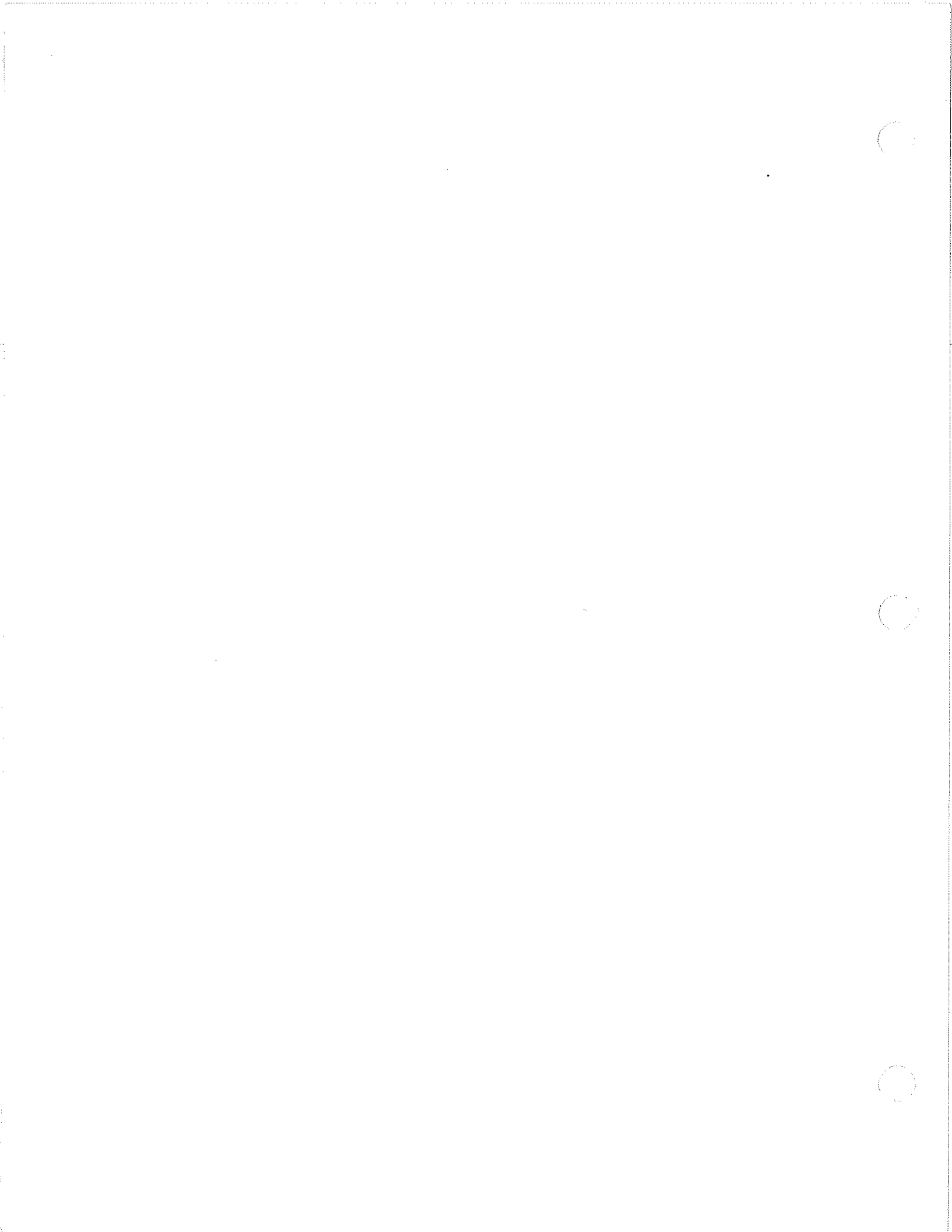
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E.N. NO.



RADIATOR PIPING ASSY
SHEET 2 OF 2
A84857A



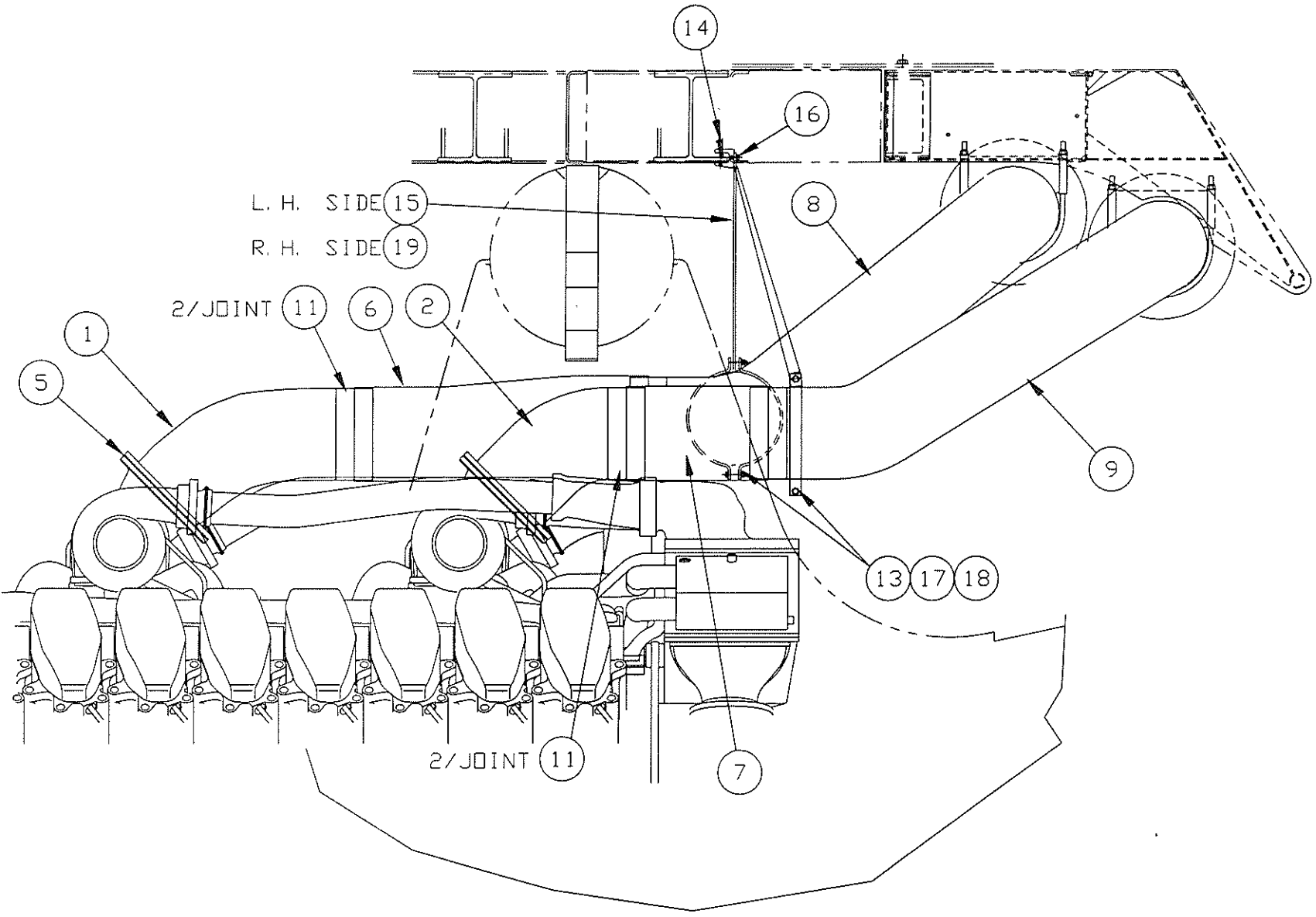
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ALVERT

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DR. T. DODDEN  
ENG. APPR. ROBINSON  
REL. CK. J. ELLIS

90301  
E.N. NO.



EXHAUST ASSEMBLY W/MUFFLERS

SHEET 1 OF 3  
A84925

E.N. NO.  
90301

REL. CK.

ENG. APPR.  
T. DODDEN

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A84925

AIVCRT

SEE SHEET 3

FRONT AXLE

TRUCK

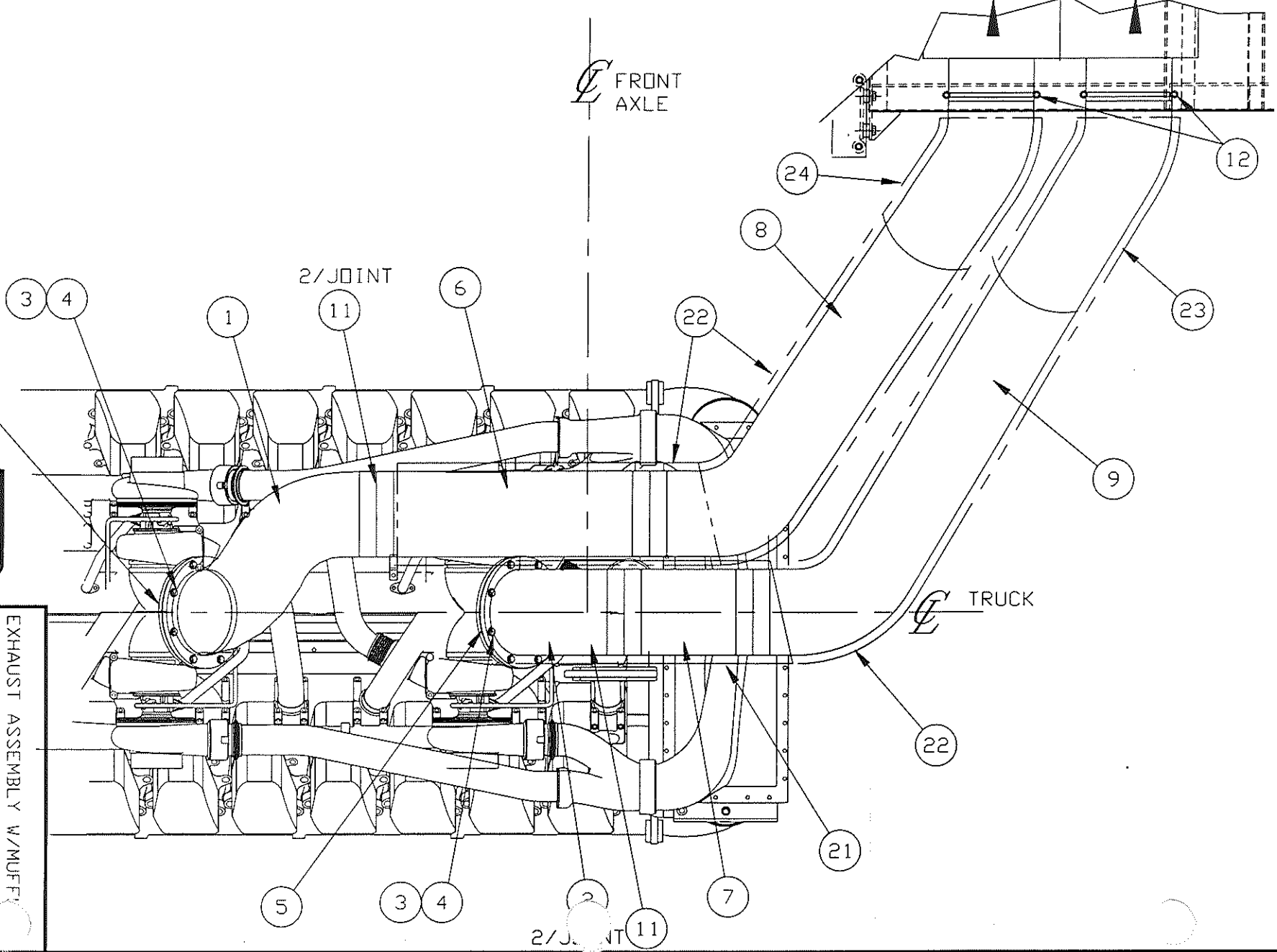
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EXHAUST ASSEMBLY W/MUFFLER

SHEET 2 OF 3

A84925



SEE SHEET 2

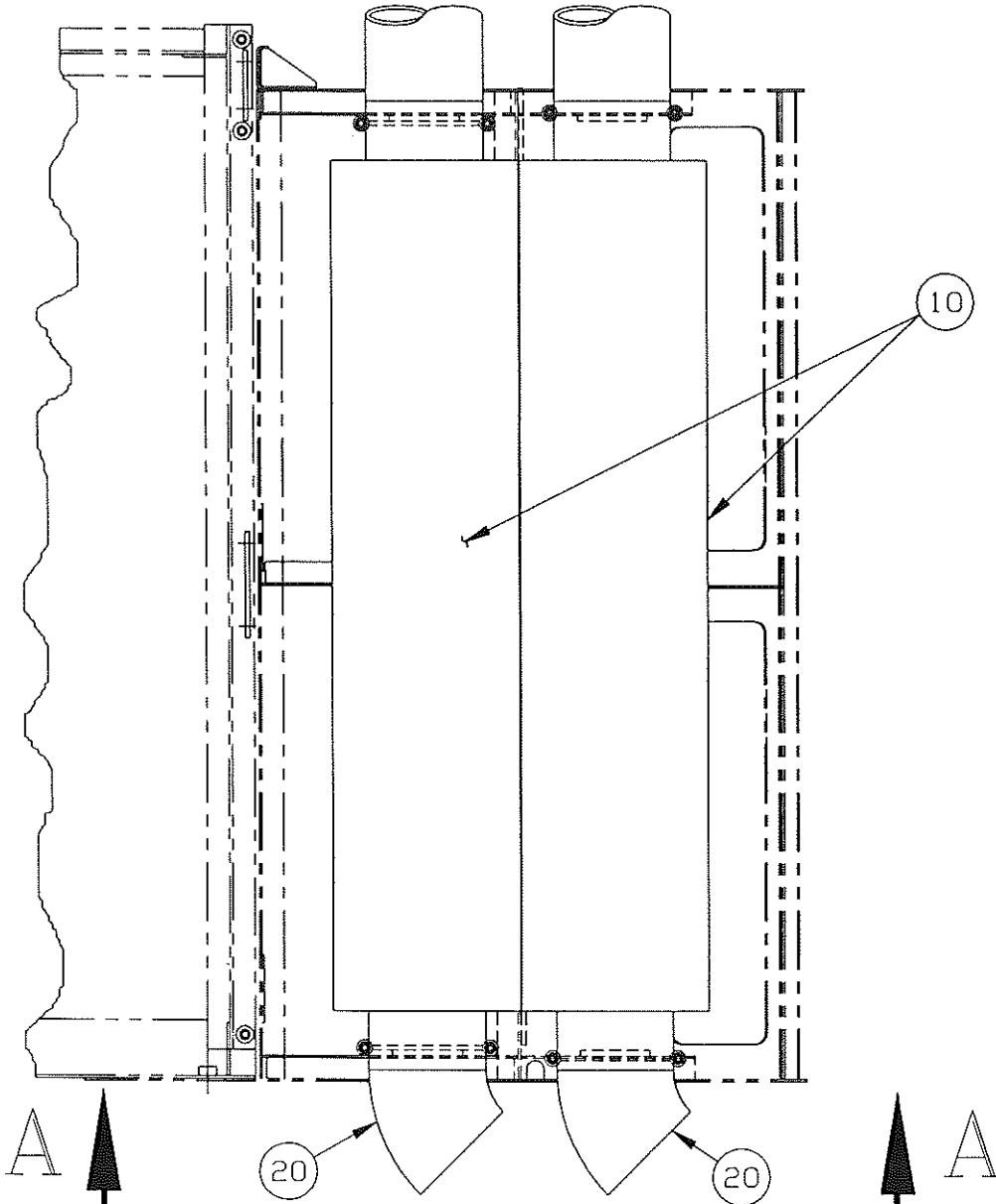
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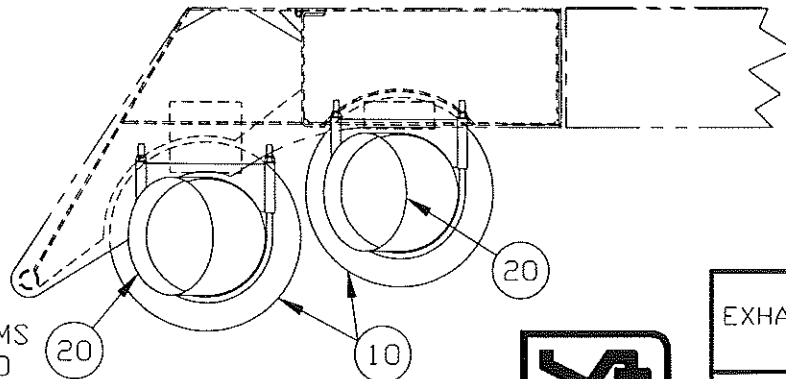
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T. DODEN  
ENG. APP.

REL. CK.



VIEW FROM UNDER  
SIDE OF RIGHT FENDER



TURN ITEMS  
20 TOWARD  
REAR OF  
TRUCK

VIEW A-A

ROTATED 180°



EXHAUST ASSEMBLY W/MUFFLERS

SHEET 3 OF 3

A84925

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8/4/97

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	1	82345M	ELBOW, EXHAUST
002	1	82345P	ELBOW, EXHAUST
003	16	10031	CAPSCR, HX, 1/2-13NC X 2 GR 5
004	16	17412	NUT, HX, CRNLK, 1/2-13NC STD GR B
005	2	24513	GASKET, EXHAUST
006	1	82295H	TUBING (DWG 82295A-Z) 10" ID X 32" LG
007	1	82295K	TUBING (DWG 82295A-Z) 10" ID X 15" LG
008	1	84781T	PIPE, EXHAUST
009	1	84781U	PIPE, EXHAUST
010	2	52624	SILENCER-EXHAUST
011	4	1000270	SEALCLAMP 5"
011	8	1000270	SEALCLAMP 5"
012	2	62620A	CLAMP, 10-1/4 ID
013	4	81201A	SUPPORT-TUBE (10")
014	2	55833	CLAMP, BEAM - HANGER
015	1	83730F	STRAP, HANGER
016	2	10012	CAPSCR, HX, 3/8-16NC X 1 GR 5
017	4	10014	CAPSCR, HX, 3/8-16NC X 1-1/2 GR 5
018	4	17413	NUT-HEX, FLXLC 3/8-16
019	1	83275Z	STRAP, HANGER
020	2	82367C	PIPE-END (MUFFLER)
021	1	56071	BLANKET, EXHAUST
022	3	56136	BLANKET, EXHAUST
023	1	56137	BLANKET, EXHAUST
024	1	56138	BLANKET, EXHAUST
050	REF 1	A84925	DWG ONLY, EXHAUST

MT4400 W/DDC16V4000

DR. T. DODEN

ENG. APP. *WFR*

REL. CK. *Ellis*

90301

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EXHAUST ASSY. MUFFLERS

SHEET 1 OF 1

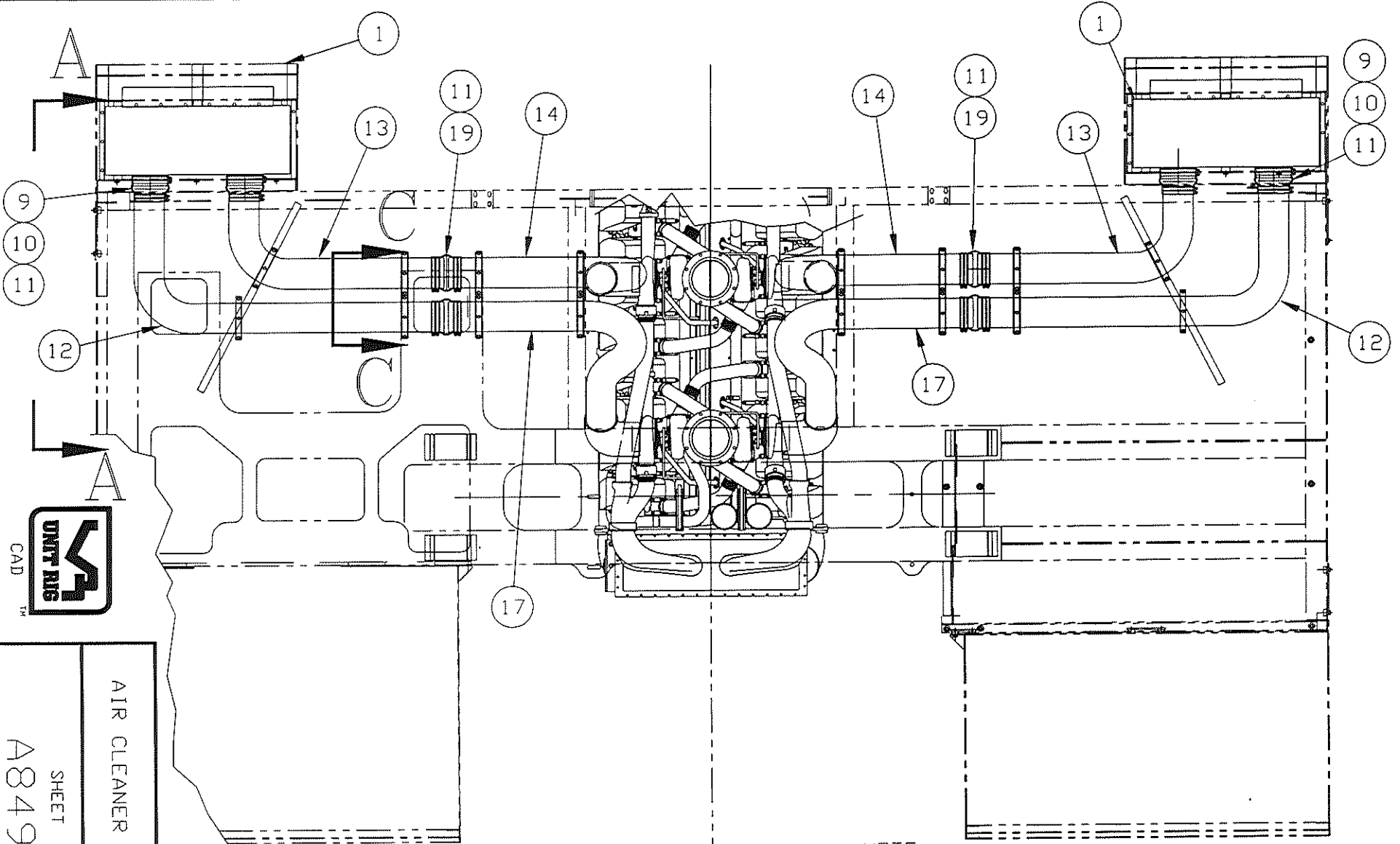
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AIVERT

90300  
E.N. NO.  
REL. CK.  
ELLIS  
ENG. APP.  
DODDEN  
DR.



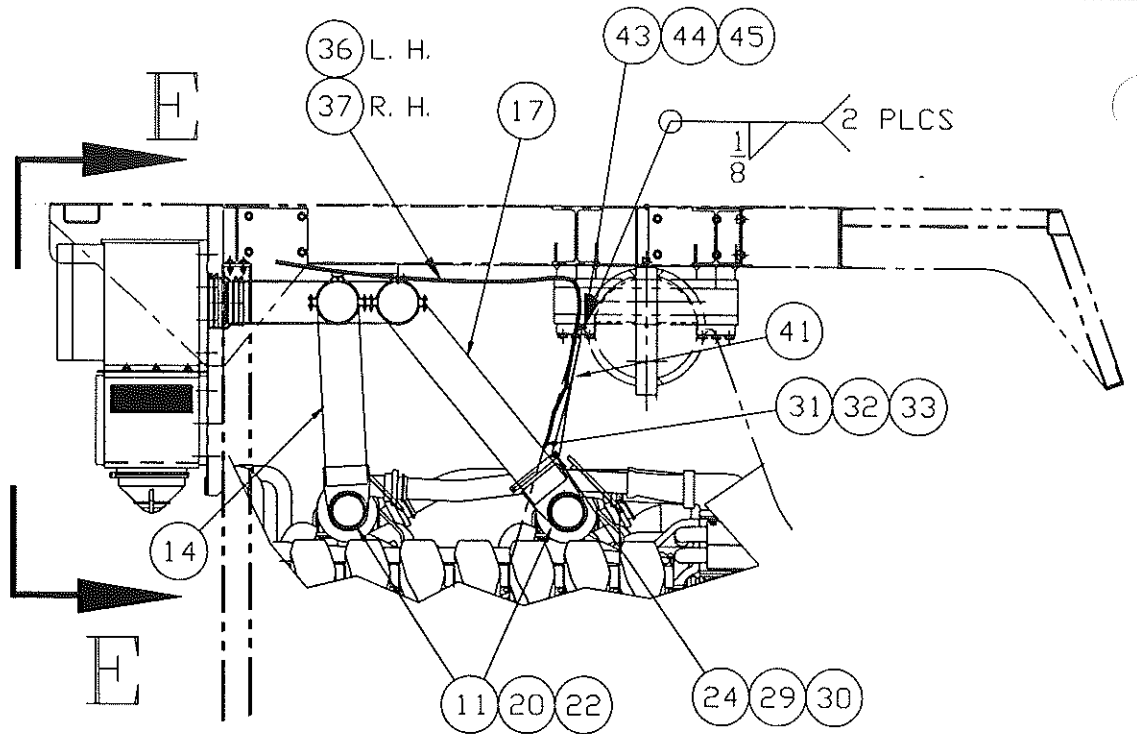
AIR CLEANER ASSEMBLY

SHEET 1 OF 3  
A84927

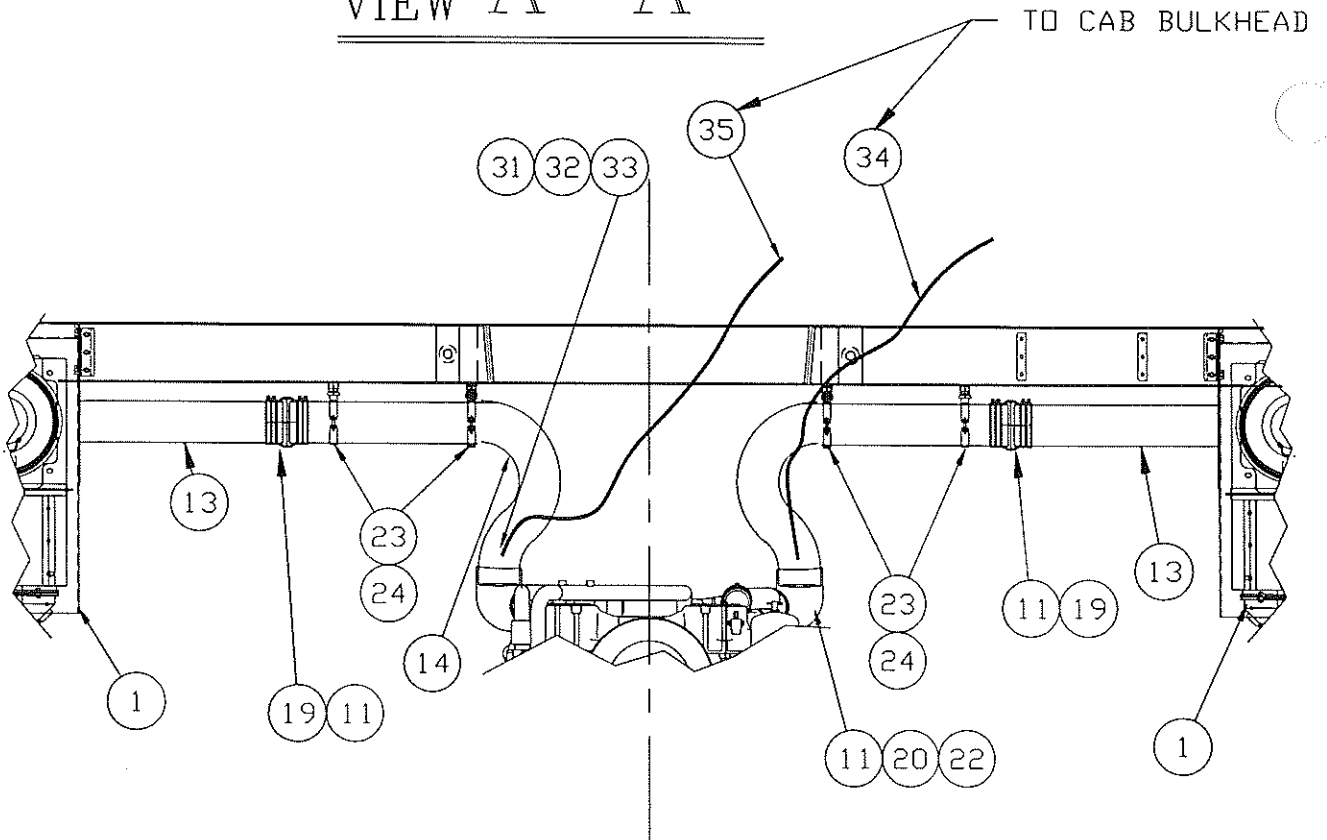
NOTE:  
(1) CHECK INSIDE OF PIPES TO INSURE  
THAT THEY ARE CLEAN AND FREE OF RUST,  
DEBRIS AND LOOSE WELD SPLATTER.  
(2) DOUBLE CLAMP ALL CONNECTIONS.

A84927

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VIEW A - A



VIEW E - E

AIR CLEANER ASSEMBLY

SHEET 2 OF 3

A84927



90300  
E.N. NO.

DR.  
DODEN  
ENG. APP.  
REL. CK.

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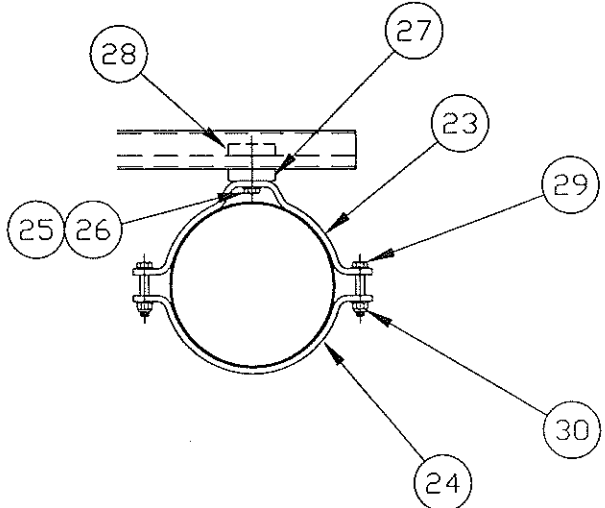
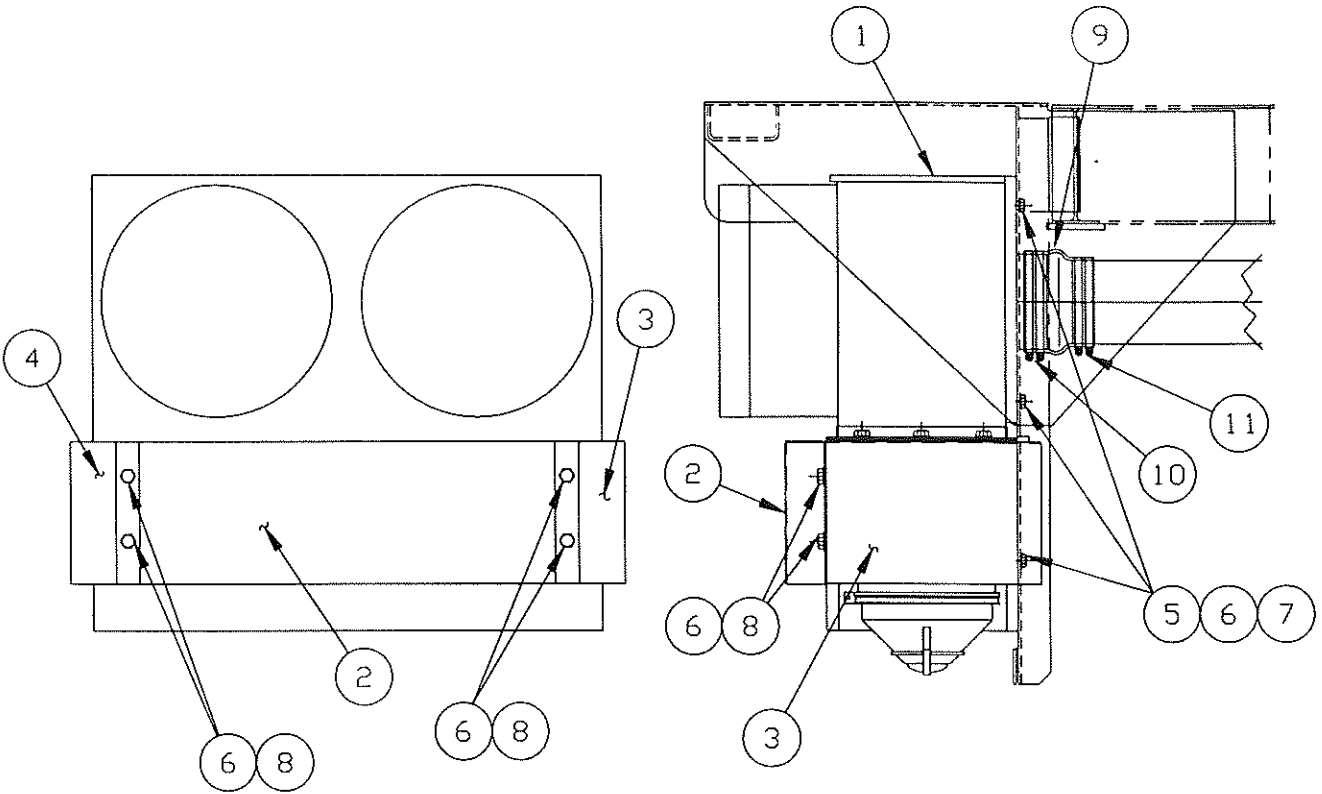
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ENG. APP.

REL. CK.



VIEW C-C

TYPICAL 16 PLCS



AIR CLEANER ASSEMBLY

SHEET 3 OF 3

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90300  
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A84927A

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9/17/97

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ENG. APP. T. DODEN

REL. CK. WFR

Ellis

90300

E.N. NO. \_\_\_\_\_

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	2	55397	AIR CLEANER
002	2	23254	SHIELD RAIN RT FRONT
003	2	23215	SHIELD RAIN FRONT LH
004	2	23216	SHIELD RAIN FRONT RH
005	16	10044	CAPSCR, HX. 5/8-11NC X 1-1/4 GR 5
006	24	10183	WSHR, LK, HELI. 5/8 X 1.079 OD
007	16	1000995	WSHR, HARDND. 5/8 X 1-3/4 OD REG
008	8	10043	CAPSCR, HX. 5/8-11NC X 1 GR 5
009	4	22981	HUMP HOSE REDUCFR 8 X 7
010	8	51595	CLAMP-T BOLT
011	16	1002394	CLAMP (DWG 1101600)
011	32	1002394	CLAMP (DWG 1101600)
012	2	83017H	PIPE, AIR CLEANER
013	2	83017T	PIPE, AIR CLEANER
014	2	84928A	PIPE, AIR CLEANER
017	2	84928B	PIPE, AIR CLEANER
019	4	17595	HOSE HUMP 07 LG
020	4	56139	ELBOW, RUBBER 7X6X90
022	16	1002393	CLAMP (DWG 1101600)
023	16	78492A	SUPPORT-TUBE
024	12	72429A	SUPPORT TUBE 7" ID
024	8	72429A	SUPPORT TUBE 7" ID
025	16	34021	CAPSCR, HXDRL. 3/8-16NC X 1-3/4 GR 5
026	16	FT 22324	WIRE, SAFETY (.041 DIA)
027	16	81364A	SPACER
028	16	28865	NUT CHANNEL
029	20	10016	CAPSCR, HX. 3/8-16NC X 2 GR 5
029	16	10016	CAPSCR, HX. 3/8-16NC X 2 GR 5
030	16	17413	NUT-HEX, FLXLC 3/8-16
030	20	17413	NUT-HEX, FLXLC 3/8-16
031	4	51309	RESTRICTION ADAP-SFTY
032	4	17629	ADAPTER, 90 DEG #4 JIC, MALE X 1/8 NPTF, MALE
033	4	24546	BUSH, 1/4X1/8NPT MI 150PST HEX
034	1	51460	HOSE ASSY 211-04 122 LG W/319-04 FTGS
035	1	1024131	HOSE ASSY 211-04 268 LG W/ 319-04 FTGS
036	1	22767	HOSE ASSY 211-04 200" LG W/319 FTGS
037	1	20393	HOSE ASSY 211-04

\*SEE SERVICE PARTS



AIR CLEANER ASSY

SHEET 1 OF 2

ASSY.  
NO. A84927A

A84927A

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ITM	QTY PFR ASSY	COMPONENT	DESCRIPTION
041	2	83730F	212" LG W/319-04 FTGS STRAP, HANGER
043	2	948634	PAD, BOLTING 3/8 NC 3/4 OD X 3/4 LG
044	2	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
045	2	10180	WSHR, LK, HELI, 3/8 X .683 OD
099	REF 1	A84927	DWG ONLY, AIR CLNRS

MT4400 W/16V4000

DR.	T. DODEN
ENG. APP.	
REL. CK.	
90300	
E.N. NO.	



AIR CLEANER ASSY
SHEET 2 OF 2
ASSY.
NO. A84927A

# SPECIFICATION

ENGINE: 16V4000 , 2500 H. P. , 1900 RPM, DDEC III  
 MODEL: T1637K11  
 MANUFACTURER: DETROIT DIESEL CORP. , DETROIT, MI.

84942B

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ITEM	GROUP NO.	GROUP NAME
1	EZ-	
5	6A1-791	CYLINDER BLOCK AND LINER
6	6A1B-222	CYLINDER BLOCK HAND HOLE COVERS
7	6A1D-15	TOP VALLEY COVER
9	6A2-482	CYLINDER HEADS
10	6A2A-06	CYLINDER HEAD ATTACHING HARDWARE
11	6A5-370	ENGINE LIFTER BRACKET
12	6B-1187	FLYWHEEL HOUSING
13	6C1-155	CRANKSHAFT
14	6C1B-09	CRANKSHAFT MAIN BEARING
15	6C1C-03	CRANKSHAFT HUB MAIN PTO END
16	6C1E-03	CRANKSHAFT HUB AUX PTO END
17	6C1F-01	CRANKSHAFT SEAL AUX PTO END
18	6C1H-05	CRANKSHAFT LOCK TRANS FLYWHEEL
19	6C2-280	VIBRATION DAMPER
20	6C3-1381	FLYWHEEL AND RING GEAR-FLEXPLATE FOR ALTERNATOR
21	6C3A-56	FLYWHEEL HOUSING ADAPTER
22	6D-1126	PISTON ASSY
23	6D1-05	CONNECTING ROD AND BEARINGS
24	6E-825	OIL PAN
25	6F1-313	OIL PUMP
26	6F2-53	OIL PRESSURE REGULATOR
27	6G1-838	OIL DISTRIBUTION SYSTEM
28	6G2-	OIL FILTER TUBE
29	6G3-1343	OIL COOLER AND HOUSING
30	6G4-1388	OIL LEVEL GAUGE
31	6G5-838	LUBE OIL FILTERS ADAPTER
32	6G5A-04	CENTRIFUGE OIL FILTER
33	6G8-05	PISTON COOLING OIL DISTR. SYS.
34	6G9-04	OIL DIST. TURB.
35	6H-1218	ENGINE VENTILATING SYSTEM
36	6J-327	ENGINE UPPER FRONT COVER
37	6K1-2233	FAN CLUTCH & PULLEY
38	6K1A-517	CRANKSHAFT PULLEY
39	6K1B-325	FAN BELTS 23L 108" LG
40	6K1D-06	FAN SPACER - 150mm
41	6K2-401	ENGINE WATER PUMP
42	6K2A-717	HTC COOLANT CONNECTIONS
43	6K3 -267	WATER MANIFOLD
44	6K5-04	SCAC WATER PUMP
45	6K6-04	COOLANT DISTR. HOUSING
46	6K6A-02	THERMOSTATS-DUAL
47	6L-863	EXHAUST MANIFOLD
48	6M4-347	FUEL PUMP (HIGH PRESSURE)
49	6M4B-03	FUEL PUMP (LOW PRESSURE)
50	6M5-05	HIGH PRESSURE FUEL LINES
51	6M6-1124	INJECTORS
52	6M7C-2319	TURBOCHARGERS
54	6M7D-57	SCAC WATER SYSTEM

FAN CLUTCH  
 27.4" ABOVE C. S. Q  
 .55:1 DRIVE RATIO  
 3" FAN PILOT

**\*SEE SERVICE PARTS**

DR.  
 T. DODEN  
 ENG. APP.  
 ROBINSON  
 REL. CK.  
 ELLIS

90920

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E.N. NO.

WEIGHT

15815 LBS.



ENGINE-DIESEL

SHEET 1 OF 2

\* 84942B \*

# SPECIFICATION

(CONTINUED)


ENGINE: 16V4000, 2500 H. P., 1900 RPM, DDEC III

84942B

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55	6M7E-08	INTAKE MANIFOLD
56	6M7F-07	TURBO DISCHARGE PIPING
57	6M9-2535	FUEL FILTERS AND LINES W/DAVCO PRO 40
58	6M9A-08	FUEL PIPING AND SPILL
59	6M10B6-04	BOXED PARTS-COOLANT LEVEL SENSOR 3/8NPT
60	6N4-3769	DDEC CONTROLS W/3200mm INTERFACE HARNESS
61	6N4C-702	DDEC APPLICATION
62	6N4D-402	CALIB 2700/2500/2300HP@1900RPM 4J NO RS
63	6N4M-1085	DDEC CALIBRATION 2500HP
64	6N5-01	ECM DATA PAGES
65	6Q-612	ENGINE MOUNTINGS
66	6Q1-41	SKID MOUNTING HARDWARE
67	6T-NONE	AIR COMP, VAC. & HYD PUMPS
68	6X1A-648	GEAR TRAIN
69	6X1C-04	CAMSHAFT ASSY
70	6X1D-02	CAMSHAFT DRIVE/THRUST BEARING
71	6X1F-01	PUSHROD ASSY
72	6X1G-02	ROCKER ARM & PEDESTAL
73	6X3-250	MECH VLV & DDEC INJ OPER 4 VLVD 16V4000
74	6X3A-734	VALVE ROCKER COVER
75	6X4-626	ACCESSORY DRIVE PULLEY
76	6Y1-2804	BATTERY CHARGING GENERATOR-220AMP NIEHOFF, B BANK
77	6Y2A-605	STARTING MOTORS - DUAL 24 VOLT W/MAG SWITCH
78	14B7-642	NAME PLATE
79	14B9-01	BOXED PARTS, PLUMBING ADAPTERS
80	16PD2028	SKID DOMESTIC
81	24T-08	ENGINE TEST SPEC C&I V4000 SINGLE SPEED RUN
82	35-2445	DWG INSTALL COMPL UNIT T1637K11 DDEC III
83	53T- 	SPEC PA WATER BASE
84	57T1-4	SPEC ENGINE PREP SIX MONTHS

 PAINT COLOR WILL BE SPECIFIED ON THE PURCHASE ORDER.

GOVERNOR SETTING- FULL LOAD 1900 RPM  
 GOVERNOR SETTING- NO LOAD 1910 RPM  
 ENGINE IDLE SPEED 650 RPM  
 TT HORSE POWER SETTING 0  
 FULL LOAD BHP SETTING 2500  
 MOUNT FAN 27.39IN ABOVE CSHF C/L

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E.N. NO.



ENGINE-DIESEL

SHEET 2 OF 2

84942B

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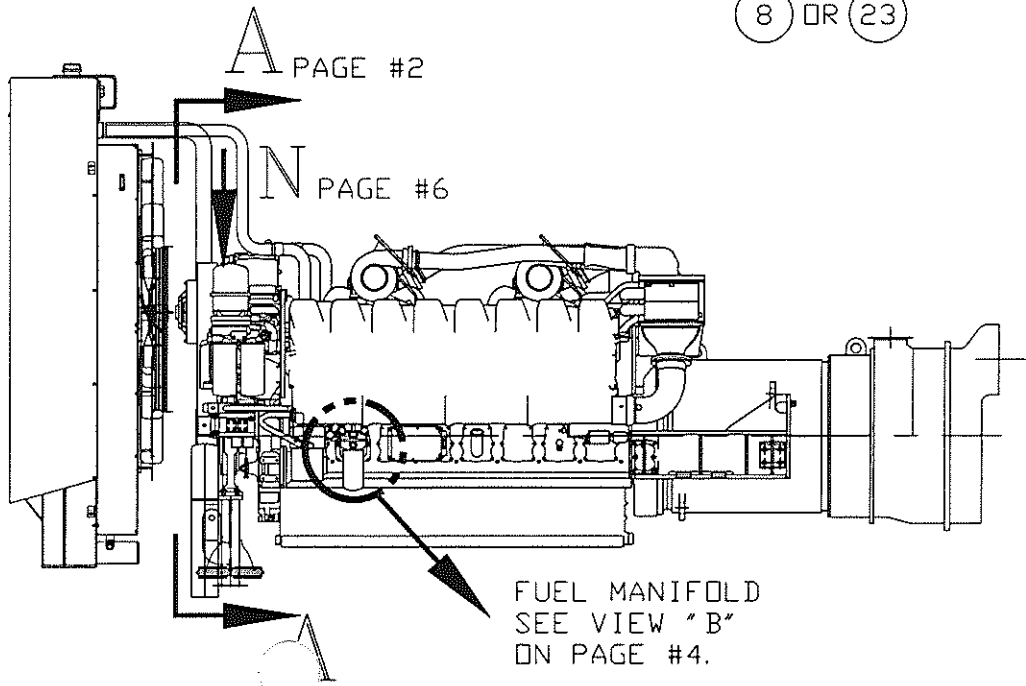
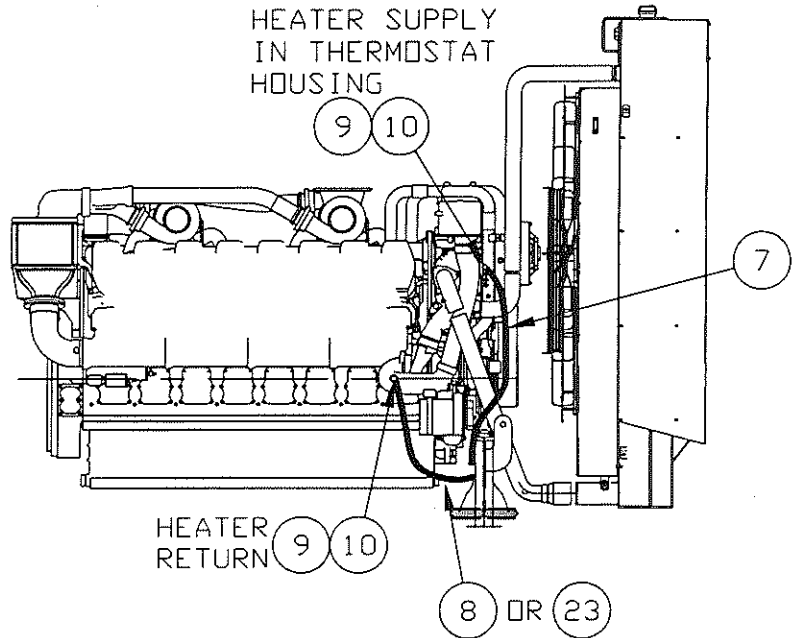
REL. CK. ELLIS

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E.N. NO.



ENGINE PIPING ASSEMB

SHEET 1 OF 8

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ENG. APP.

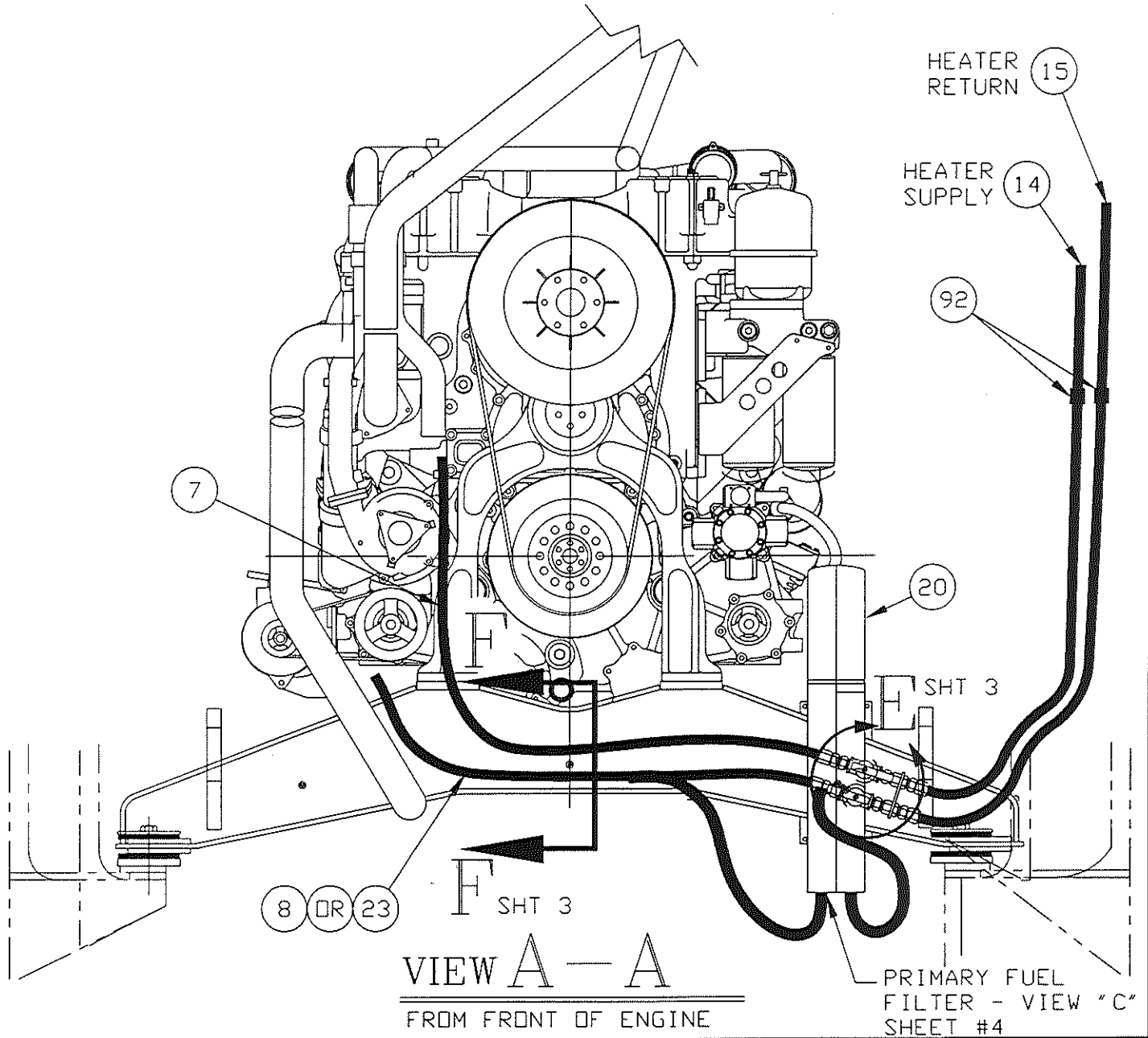
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E.N. NO.



ENGINE PIPING ASSEMBLY

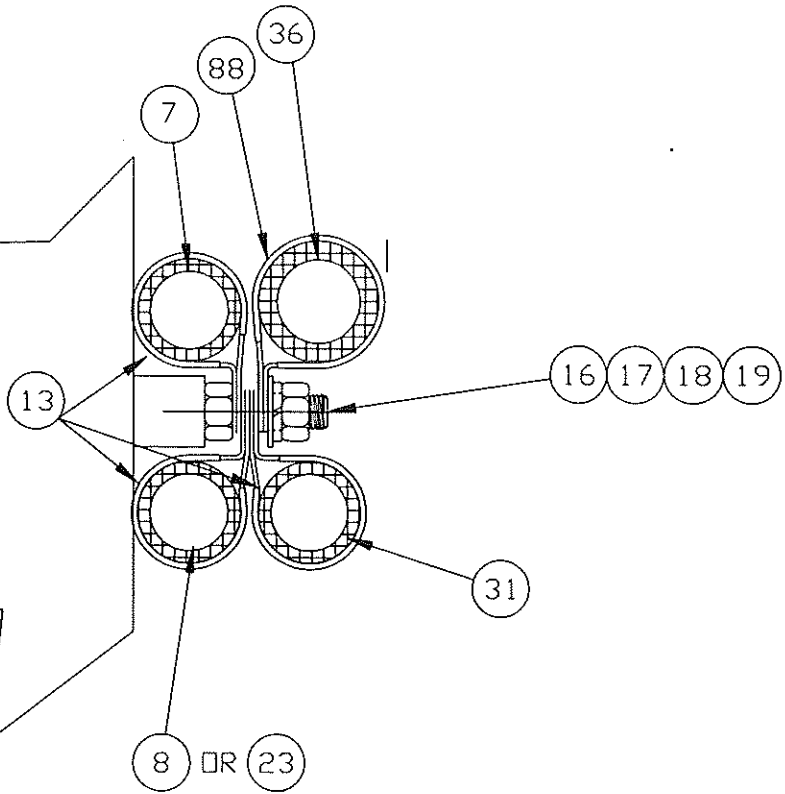
SHEET 2 OF 8

A84963

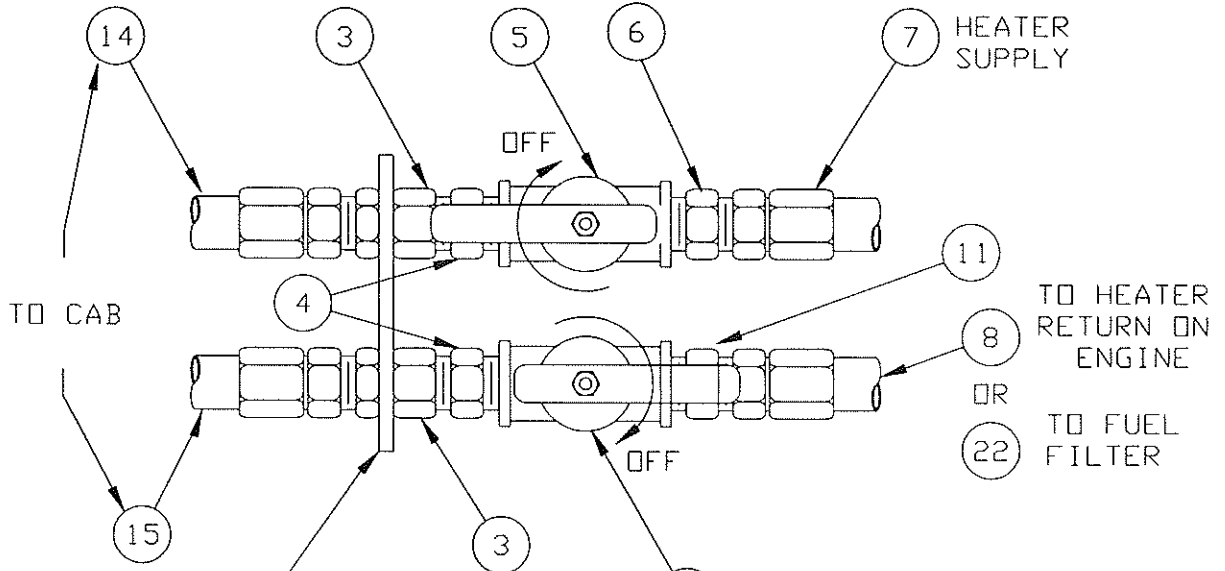
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FRONT ENGINE SUPPORT



VIEW F-F



BULKHEAD ON LEFT REAR OF FRONT ENGINE SUPPORT

VIEW E

ON REAR SIDE OF FRONT ENGINE SUPPORT

DR. T. DODEN

ENG. APP.

REL. CK.

90955

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E.N. NO.



CAD™

ENGINE PIPING ASSEMBLY

SHEET 3 OF 8

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ENG. APP.

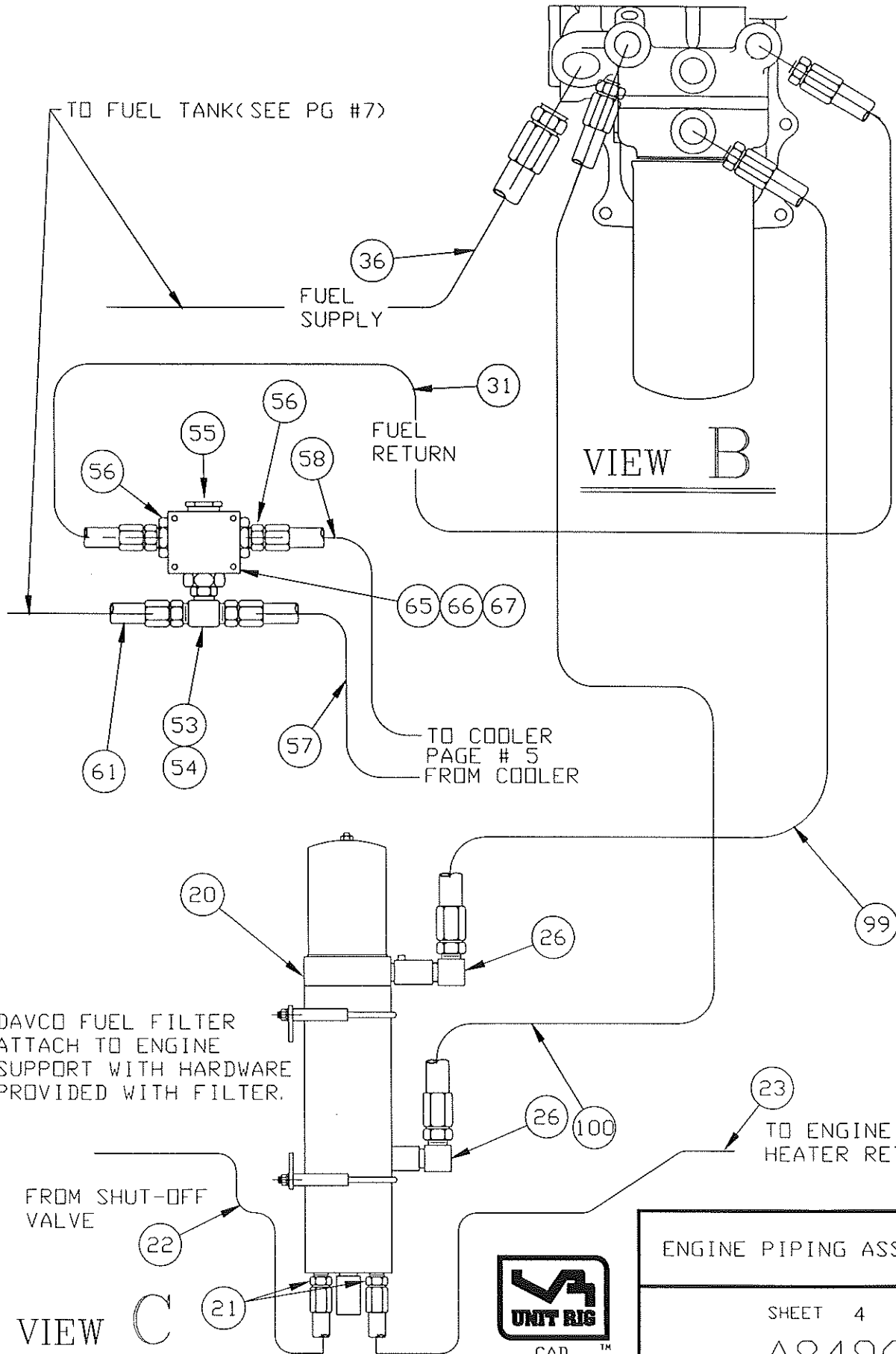
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E.N. NO.



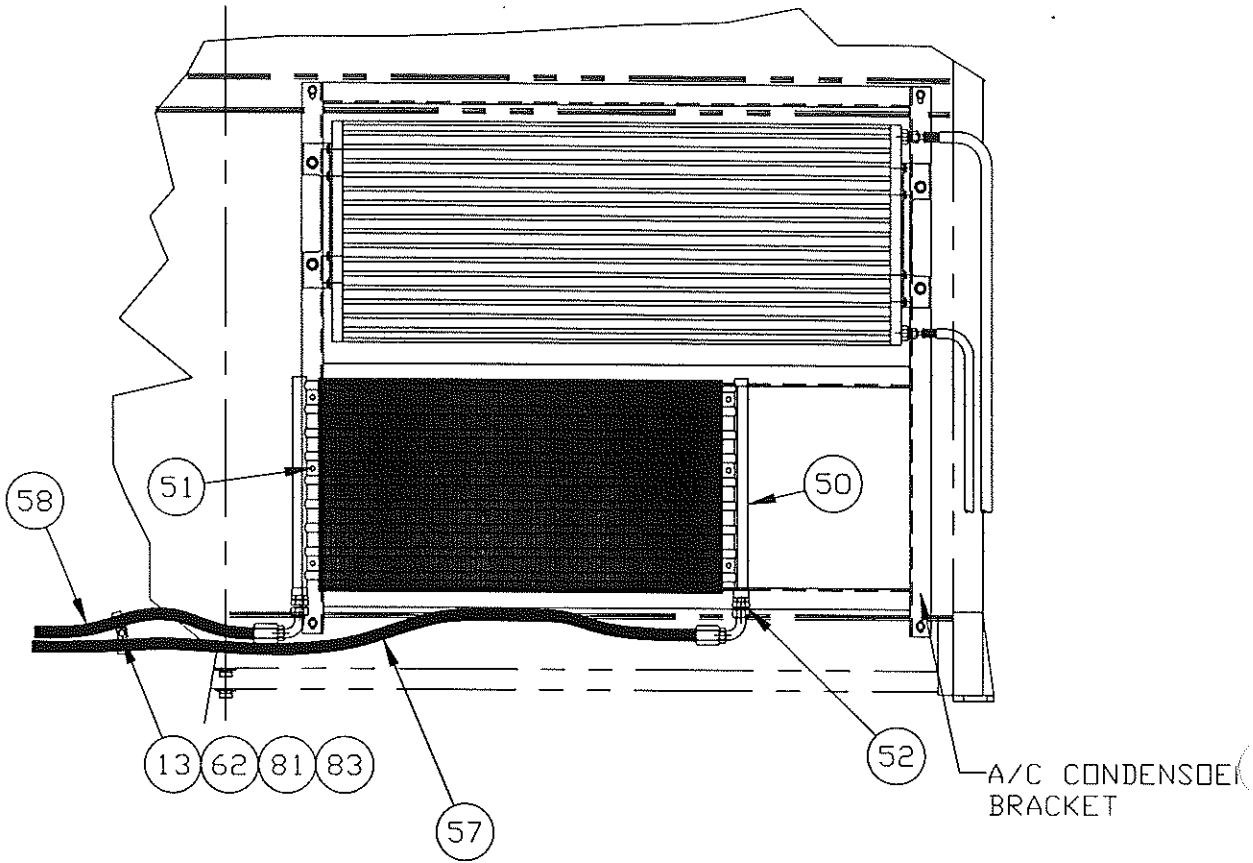
ENGINE PIPING ASSEMBLY

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FUEL COOLER  
MOUNTING

DR.  
 T. DODEN  
 ENG. APP.  
 REL. CK.

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E.N. NO.



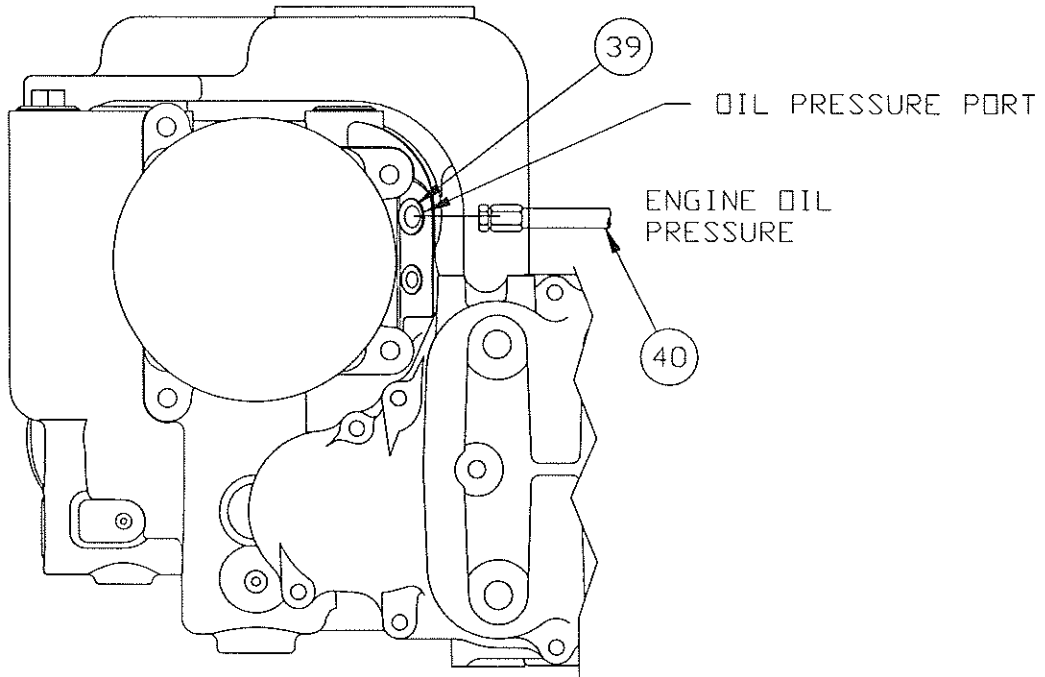
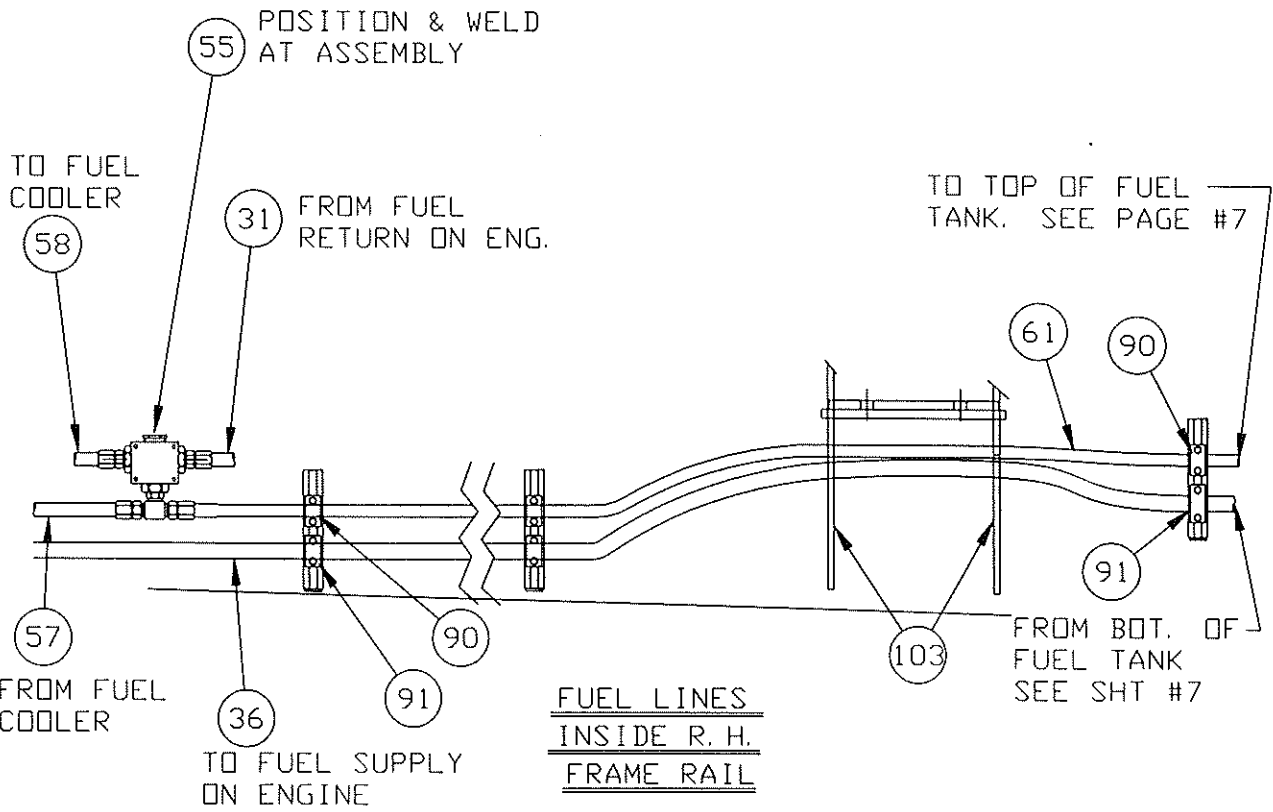
ENGINE PIPING ASSEMBLY

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VIEW N



ENGINE PIPING ASSEMBLY  
 SHEET 6 OF 8  
 A84963

DR. T. DODEN  
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 REL. CK.  
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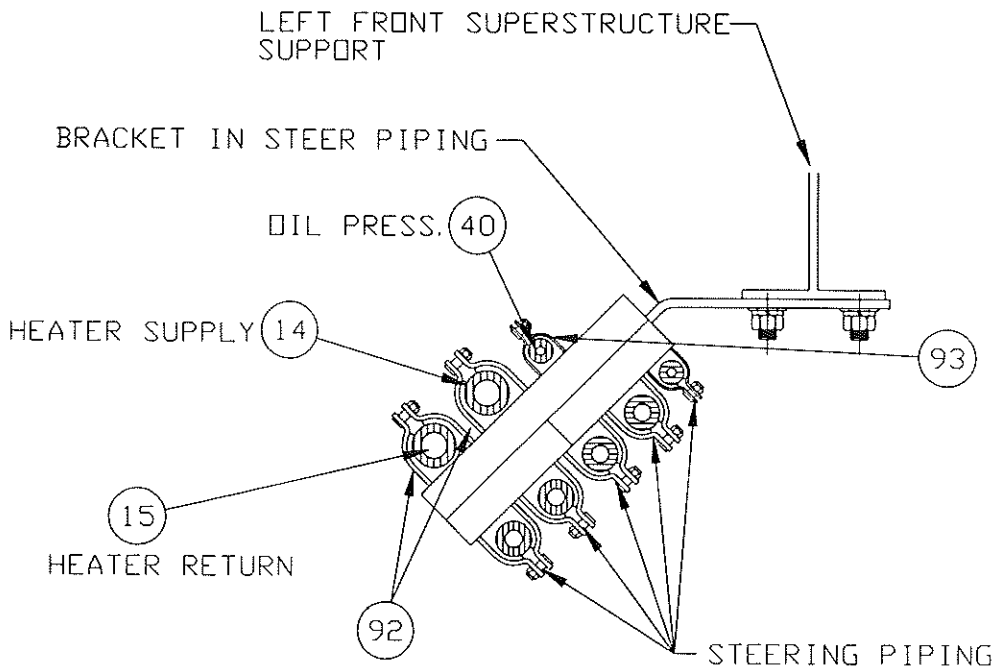
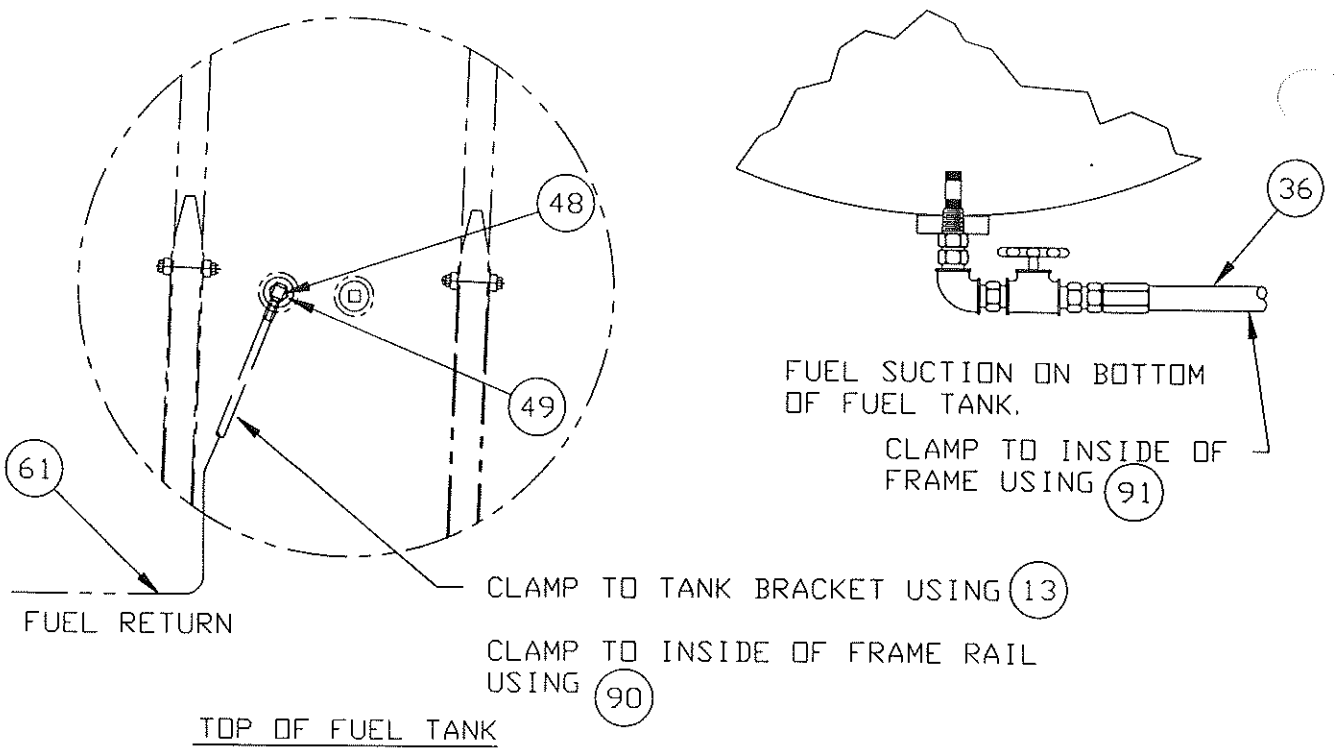
REL. CK.

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E.N. NO.



TYPICAL HOSE ROUTING FROM ENGINE  
 TO SUPERSTRUCTURE



ENGINE PIPING ASSEMBLY

SHEET 7 OF 8

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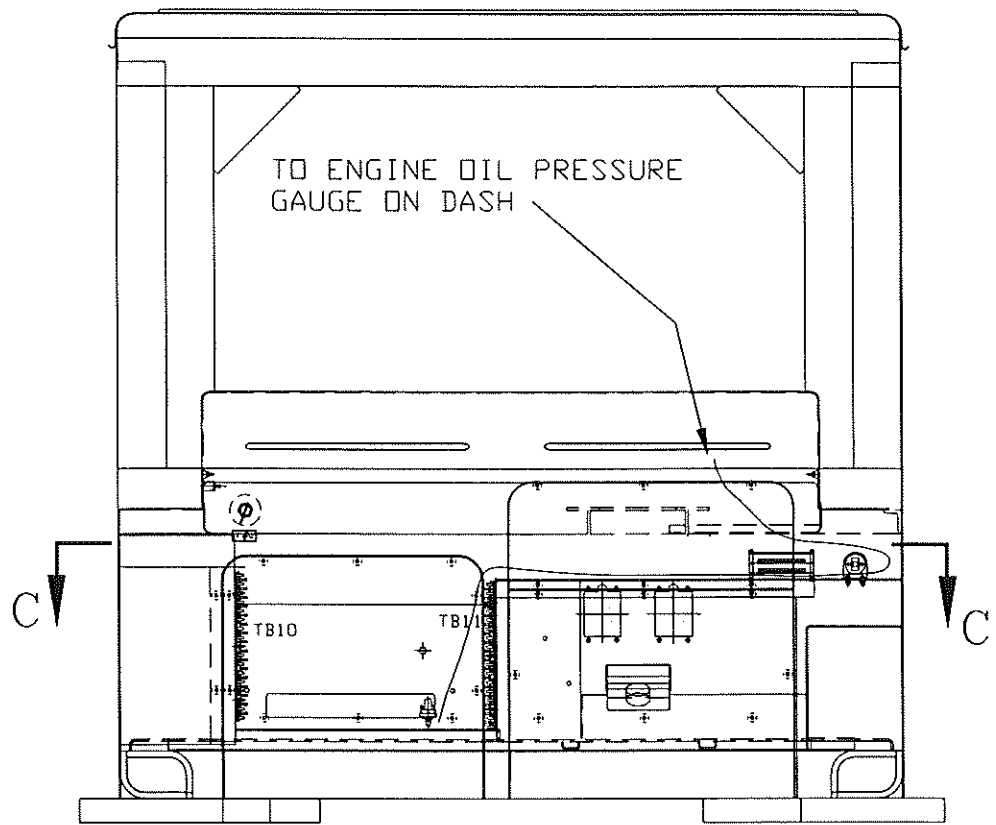
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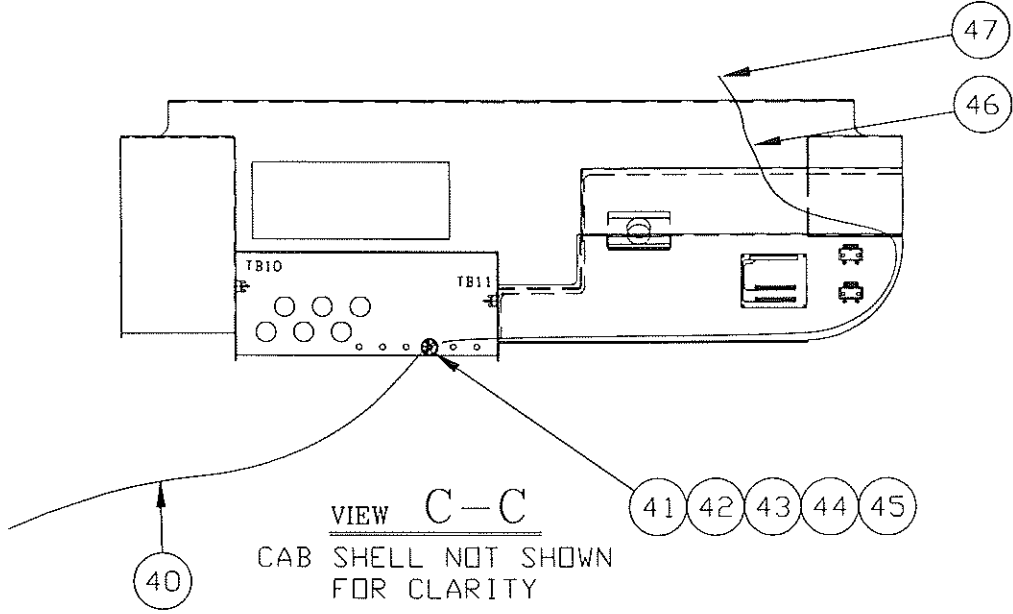
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E.N. NO.



FRONT VIEW OF CAB

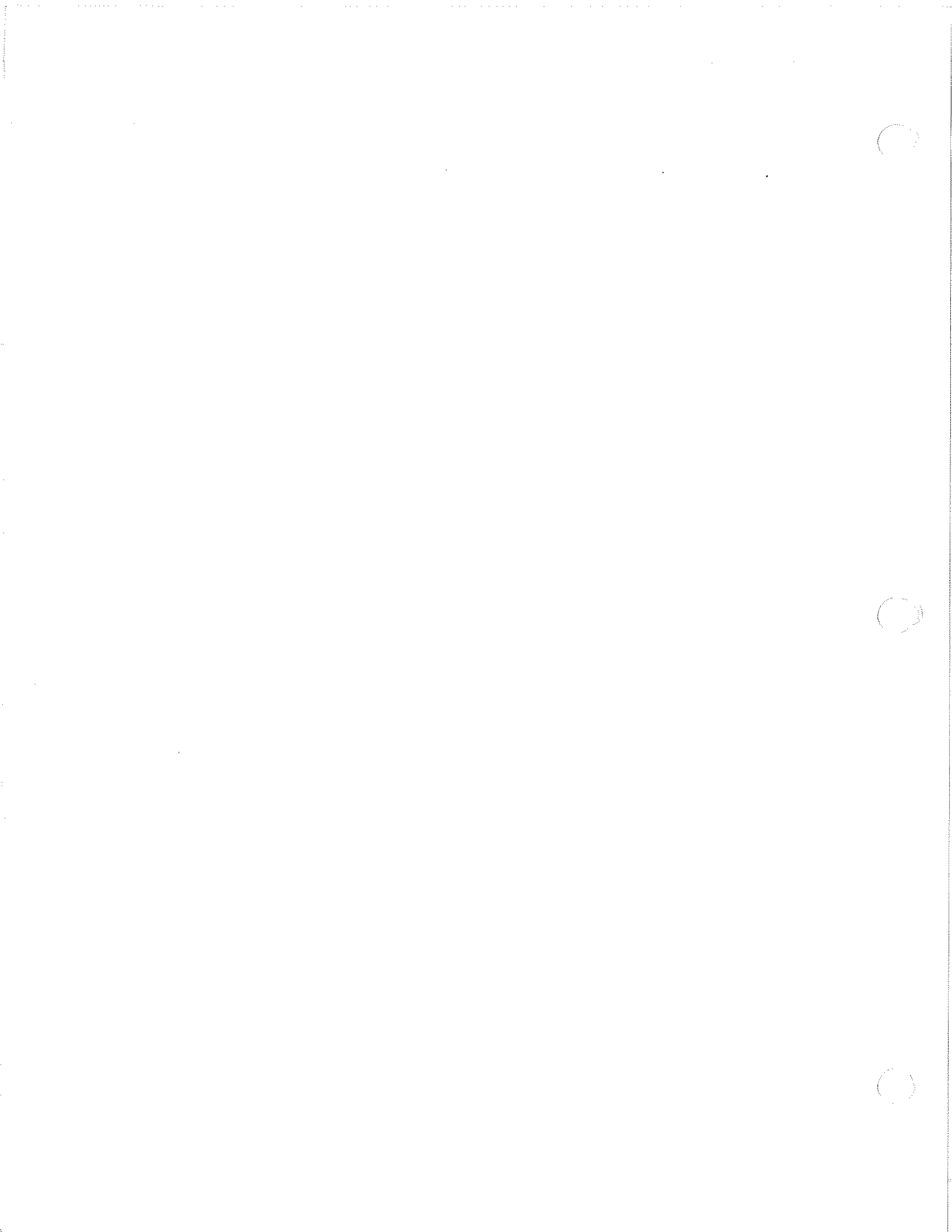


ENGINE PIPING ASSEMBLY



SHEET 8 OF 8

A84963



A84963A

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DR.  
DODEN

ENG. APP.

REL. CK.  
ELLIS

MHIII-07

MHIII-09

MHIII-13

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E.N. NO.

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
3	2.00	27796	ADAPTER, BULKHD STR #12 JIC, MALE X 3/4 NPTF, FEMALE
4	2.00	19912	ADAPTER, NIPPLE, HEX 3/4 NPTF, MALE
5	2.00	24146	VALVE-BALL 3/4 FPTF, FEMALE
6	1.00	980046	ADAPTER, STRAIGHT #12 JIC, MALE X 3/4 NPTF, MALE
7	1.00	54479	HOSE ASSY FC300-12 85" LG W/411 AND 190261 FTGS.
8	1.00	1038609	HOSE ASSY 213-12 98" LG W/7117 AND 27231 FTGS.
9	.00	56351	ADAPTER, STR. METRIC #12 JIC, MALE X M30
11	1.00	980046	ADAPTER, STRAIGHT #12 JIC, MALE X 3/4 NPTF, MALE
13	8.00	17142	CLAMP-CUSHION 1-1/16
13	5.00	17142	CLAMP-CUSHION 1-1/16
14	1.00	17826	HOSE ASSY 211-12 138" LG W/319-12 FTGS
15	1.00	17826	HOSE ASSY 211-12 138" LG W/319-12 FTGS
16	4.00	79022B	ROD, ALL THRD, 3/8-16NC X 2" LG
17	4.00	10136	NUT, HX, JAM, 3/8-16NC STL GR 2
18	4.00	10126	NUT, HX, 3/8-16NC STL GR 5
19	4.00	10164	WSHR, FL, 3/8 X 1.000 DD
20	.00	FILTER/FUEL	FILTER, FUEL INCLUDED WITH ENGINE
26	2.00	947811	ADAPTER, 90 DEG #16 JIC, MALE X 1 NPTF, MALE
31	1.00	53606	HOSE ASSY FC300-12 185" LG W/411 & 190265 FTGS
34	1.00	54482	HOSE ASSY. FC300-16 83" LG W/411 & 190261 FTGS.
35	1.00	29439	ADAPTER, BULKHD 45 DEG #16 JIC, MALE
36	1.00	55678	HOSE ASSY 211-16 394" LG W/319 FTGS
39	1.00	56172	ADAPTER, STR. METRIC #4 JIC MALE X M14 X 1.5, MALE



ENGINE PIPING ASSEMBLY

SHEET 1 OF 3

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
40	1.00	26553	HOSE ASSY 211-04 220" LG W/319-04 FTGS
41	1.00	10350	TEE, PIPE, 1/8NPT X 0.687 MI 150PSI
42	1.00	24261	ADAPTER, NIPPLE, HEX 1/8 NPTF, MALE
43	1.00	25588	ADAPTER, 90 DEG, BRASS 1/4 O. D. NYLON TUBE X 1/8 NPTF, MALE
44	1.00	27586	ADAPTER, BULKHDD STR #4 JIC, MALE X 1/8 NPTF, FEMALE
45	1.00	83405E	SWITCH (DWG 83405A-Z) NORMALLY OPEN 15 PSI
46	72.00	51853	TUBE, BULK NYLON, 1/4 O. D. X. 033WL
47	1.00	52427	ADAPTER, STR, BRASS 1/4 O. D. NYLON TUBE X 1/8 NPTF, FEMALE
48	1.00	986177	ADAPTER, 90 DEG #12 JIC, MALE X 3/4 NPTF, MALE
49	1.00	11710	BUSH, 2X3/4NPT MI 150PSI HEX
50	1.00	56168	COOLER, OIL/AIR
51	6.00	56169	MOUNT, COOLER
52	2.00	20122	ADAPTER, STR, SHORT #12 JIC, MALE X #12 O-RING, MALE
53	1.00	1015405	ADAPTER, TEE #12 JIC, MALE X #12 O-RING ADJ BRANCH
54	1.00	55413	ADAPTER-O'RING REDUCE STR, #20 O'RING, MALE X #12 O'RING, FEMALE
55	1.00	56323	VALVE, THERMOSTAIC
56	2.00	1015355	ADAPTER, STR SHORT #12 JIC, MALE X #20 O-RING, MALE
57	1.00	53610	HOSE ASSY FC300-12 260" LG W/411 & 190261 FTGS
58	1.00	53611	HOSE ASSY FC300-12 230" LG W/411 & 190261 FTGS
61	1.00	55662	HOSE ASSY 1503-12 420" LG W/411 & 190261 FTGS
62	4.00	948634	PAD, BOLTING 3/8 NC 3/4 OD X 3/4 LG

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ENG. APP.

REL. CK.

MH111-07

MH111-09

MH111-13

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E.N. NO.



ENGINE PIPING ASSEMBLY

SHEET 2 OF 3

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AVG:R

ITM	ASSY	COMPONENT	DESCRIPTION
65	3.00	12555	CAPSCR, HX, 1/4-20NC X 3-3/4 GR 5
66	3.00	10162	WSHR, FL, 1/4 X 0.625 OD
67	3.00	34083	PAD, BOLTING 1/4-20 NC, #7 DRILL
81	4.00	10012	CAPSCR, HX, 3/8-16NC X 1 GR 5
81	2.00	10012	CAPSCR, HX, 3/8-16NC X 1 GR 5
83	4.00	10164	WSHR, FL, 3/8 X 1.000 OD
83	6.00	10164	WSHR, FL, 3/8 X 1.000 OD
88	4.00	17143	CLAMP-CUSHION 1-9/16" ID
90	4.00	84211G	CLAMP-SUPPORT ASSY 1.05 ID
91	4.00	84211H	CLAMP-SUPPORT ASSY 1.25 ID
92	6.00	72108C	CLAMP-PIPE 3/4
93	3.00	69546A	CLAMP-TUBE 1/2
99	1.00	54480	HOSE ASSY FC300-16 36" LG W/411 & 190261 FTGS
100	1.00	54481	HOSE ASSY FC300-16 45" LG W/411 & 190261 FTGS.
103	40.00	53322	TRIM-EDGES
199	.00	A84963	DWG ONLY, ENG PPG

MT4400 W/16V4000 ENG.

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MH111-09

MH111-13

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E.N. NO. \_\_\_\_\_

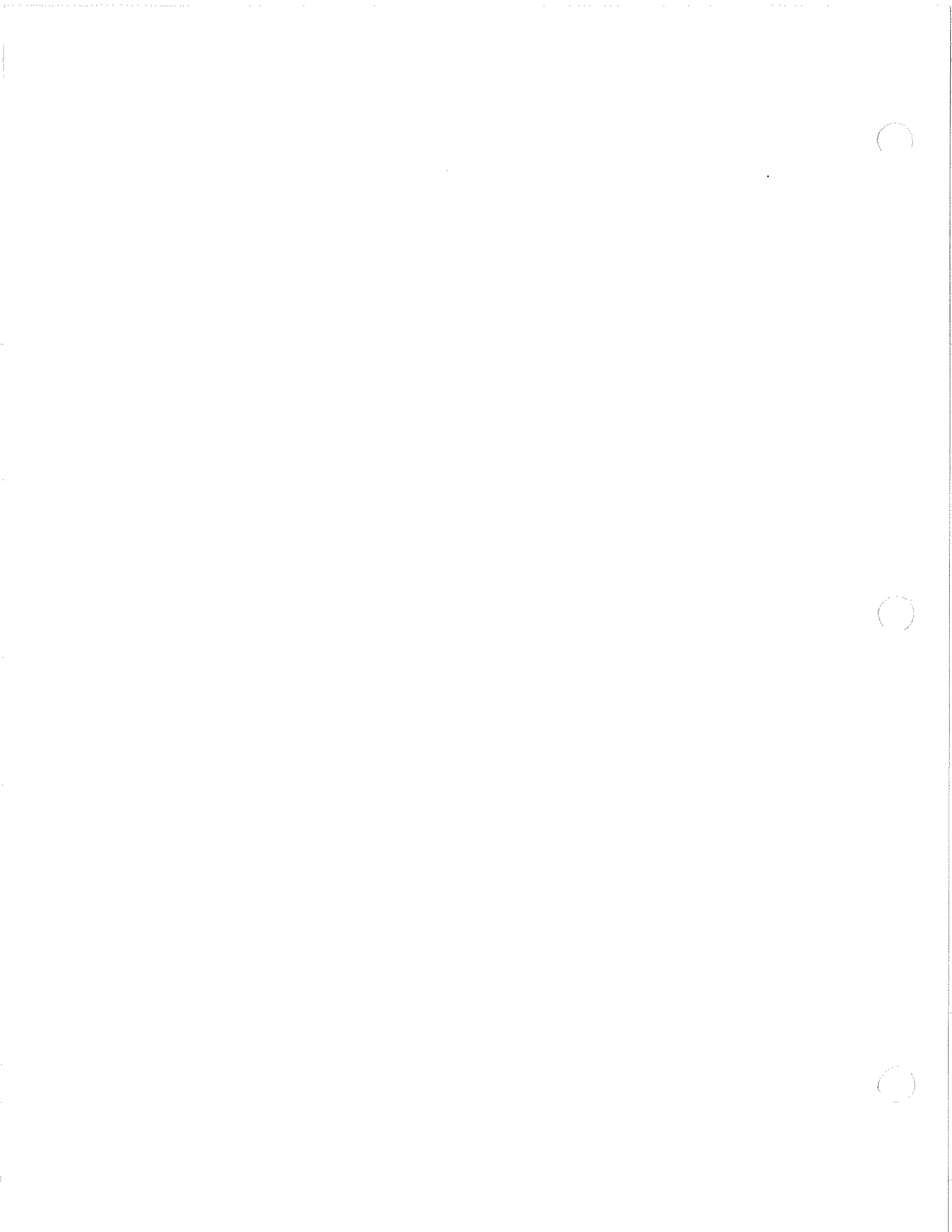
SEE SERVICE PARTS



ENGINE PIPING ASSEMBLY

SHEET 3 OF 3

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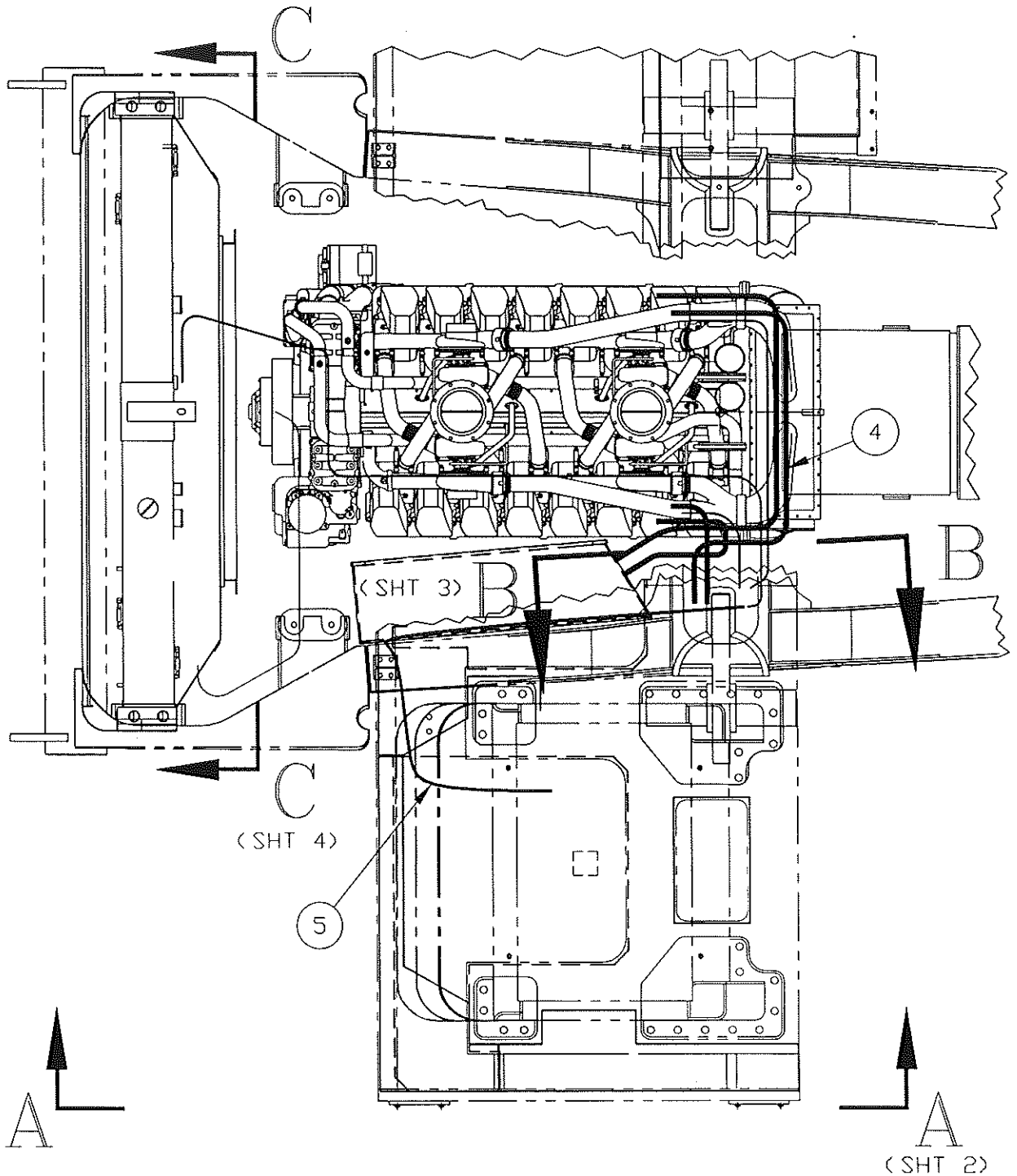
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 SLF  
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NOTES -

- 1 - USE ITEMS 41 THRU 50 AS REQUIRED TO RETAIN CABLES DURING ROUTING.



ENGINE ELECTRIC  
 ASSY - 4000

SHEET 1 OF 9

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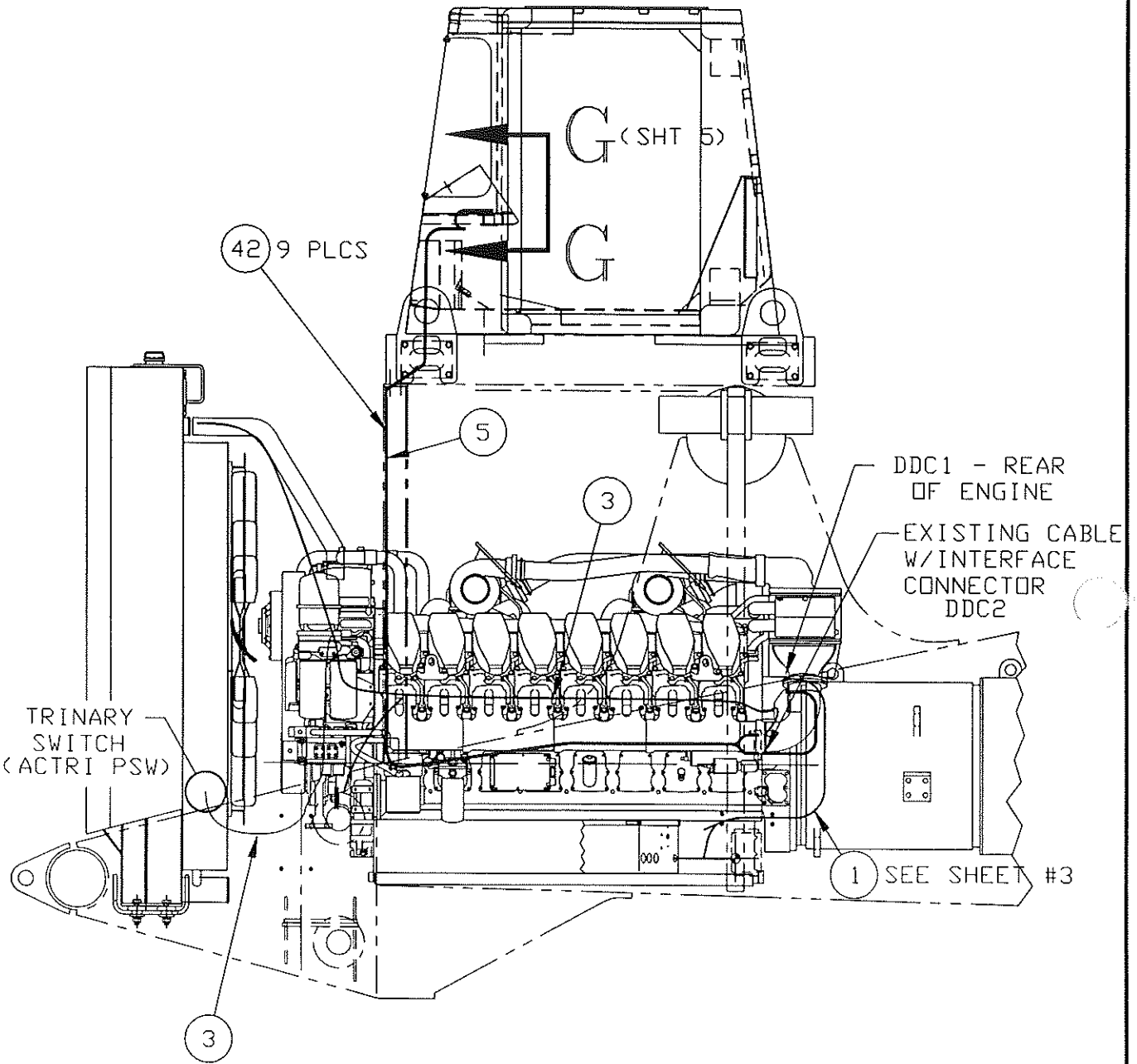
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VIEW A - A

ENGINE ELECTRICAL ASSY - 4000

SHEET 2 OF 9

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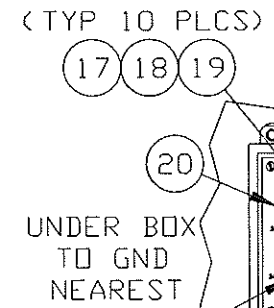
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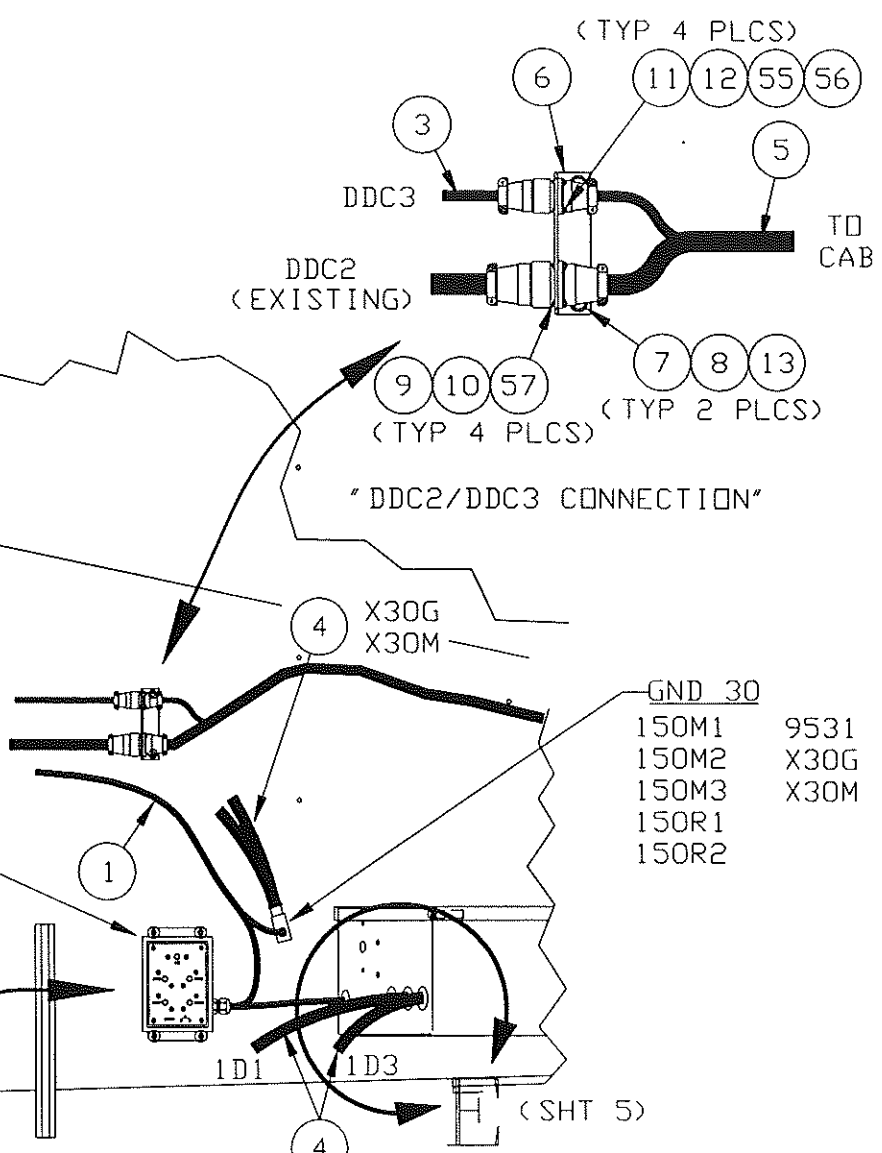
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 REL. CK.

LOAD WIRE	CIRCUIT BREAKER	LINE WIRE
240M1	CB240M	240M2
240R1	CB240R1	240R2
241M1	CB241M	241M2
241R1	CB241R1	241R2
4401	CB440	4402



(TYP 10 PLCS)  
 (TYP 4 PLCS)  
 (TYP 4 PLCS)  
 "CIRCUIT BREAKER BOX"



VIEW B-B



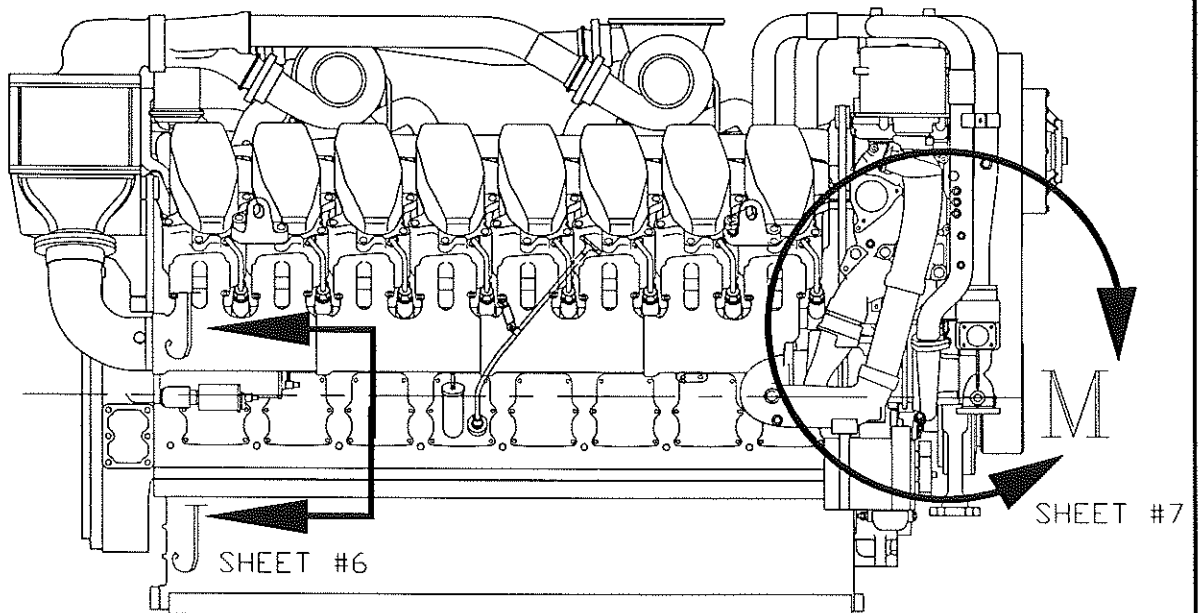
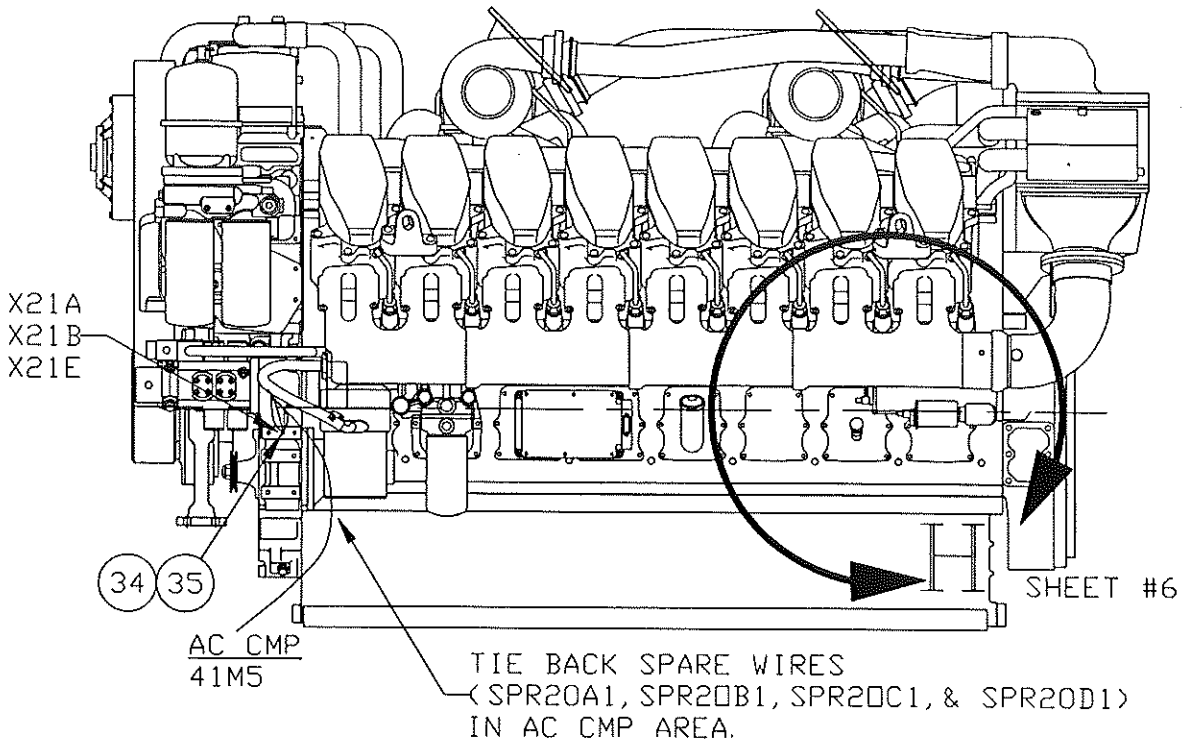
ENGINE ELECTRIC  
 ASSY - 4000  
 SHEET 3 OF 9  
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ENGINE ELECTRICAL  
ASSY - 4000

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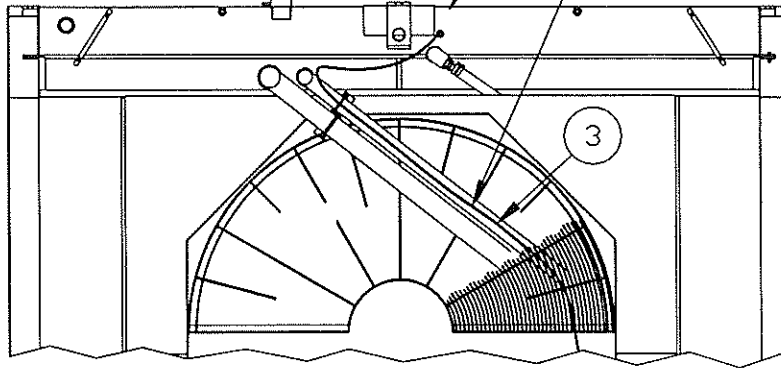
1/4" CLEARANCE  
AROUND STAINLESS  
STEEL PROBE

26

ECL SN

1/2  
(MIN)

RETAIN WIRING WITH TIE WRAPS  
(ITEM 41) AS REQUIRED ALONG  
UPPER RADIATOR PIPE



VIEW C-C

T1 - MAKE CONNECTIONS TO ANY  
AVAILABLE TERMINATION POINT AS  
ROUTINGS ALLOW.

TO CIRCUIT  
BREAKER BOX

- 240M2
- 240R2
- 241M2
- 241R2
- 4402

1

1D3

1D1

VIEW E



ENGINE ELECTRIC  
ASSY - 4000

SHEET 5 OF 9

A85158

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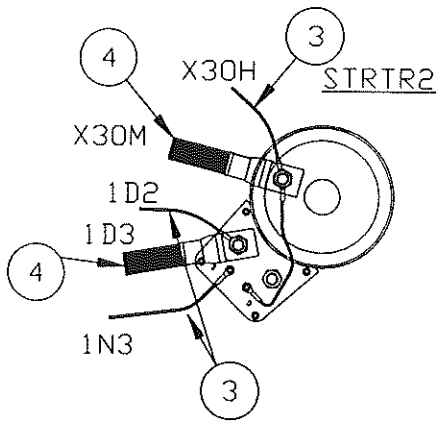
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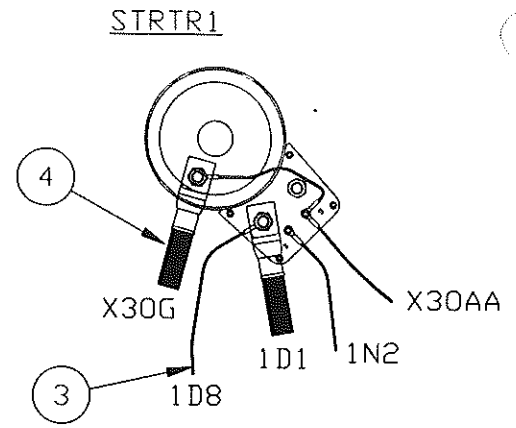
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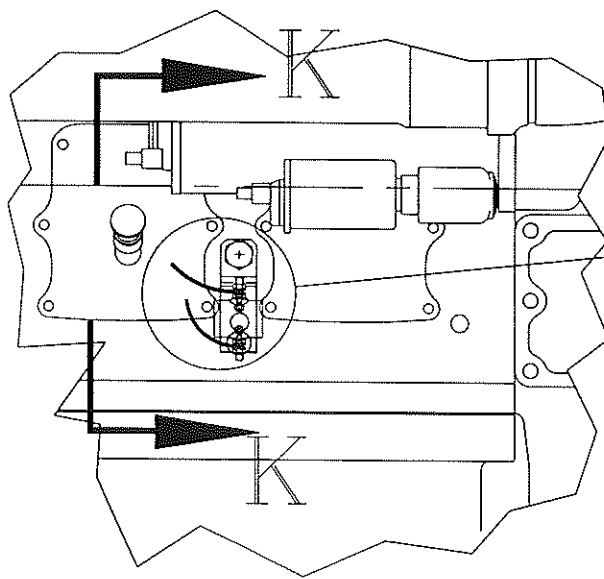
ON RT SIDE FLYWHEEL

VIEW J-J

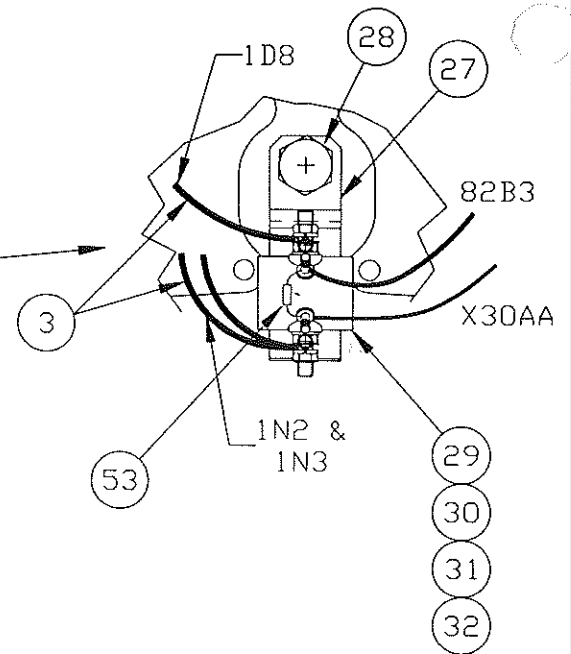


ON LT SIDE FLYWHEEL

VIEW K-K



VIEW H



ENGINE ELECTRICAL  
ASSY - 4000

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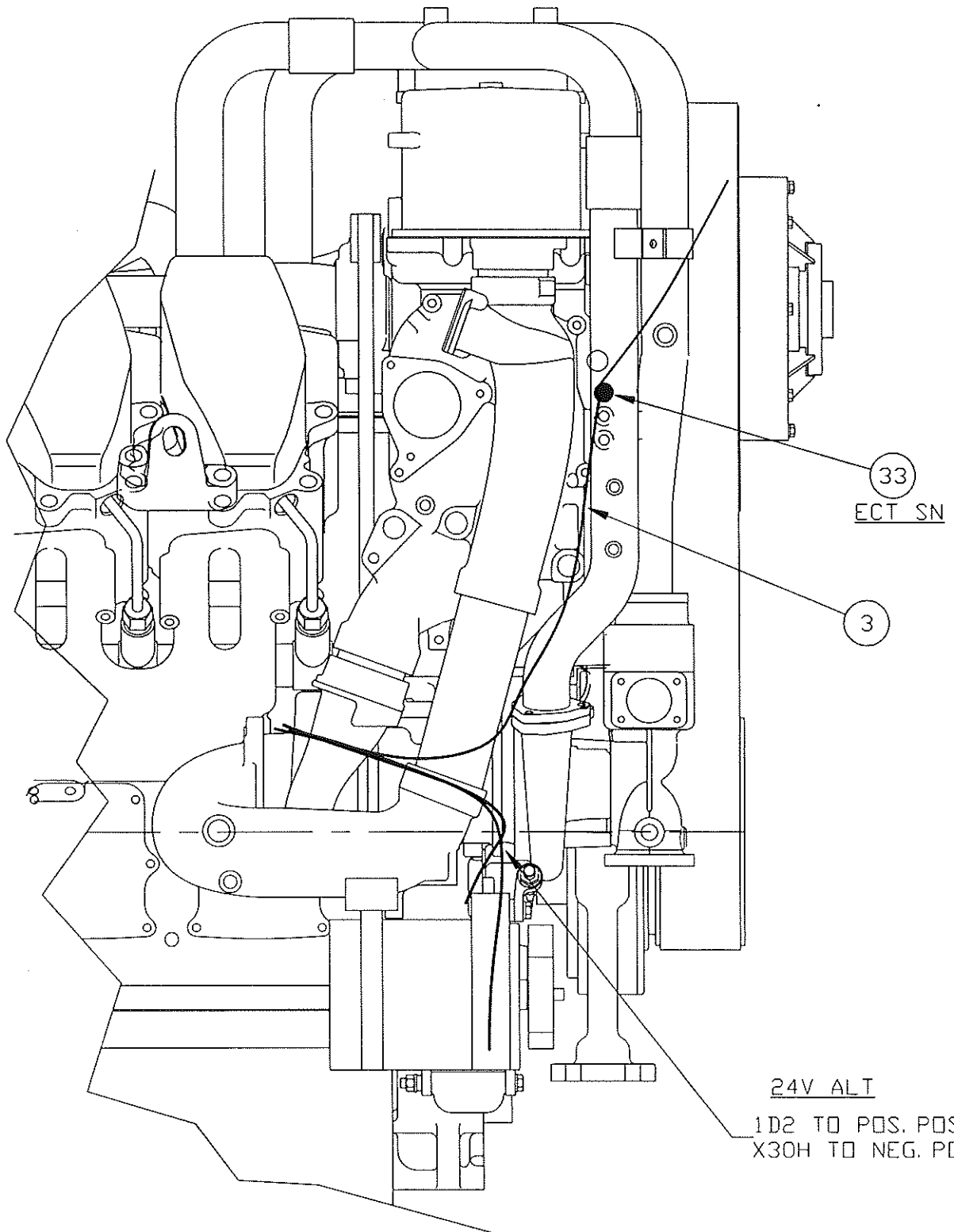
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VIEW M



ENGINE ELECTRIC  
ASSY - 4000

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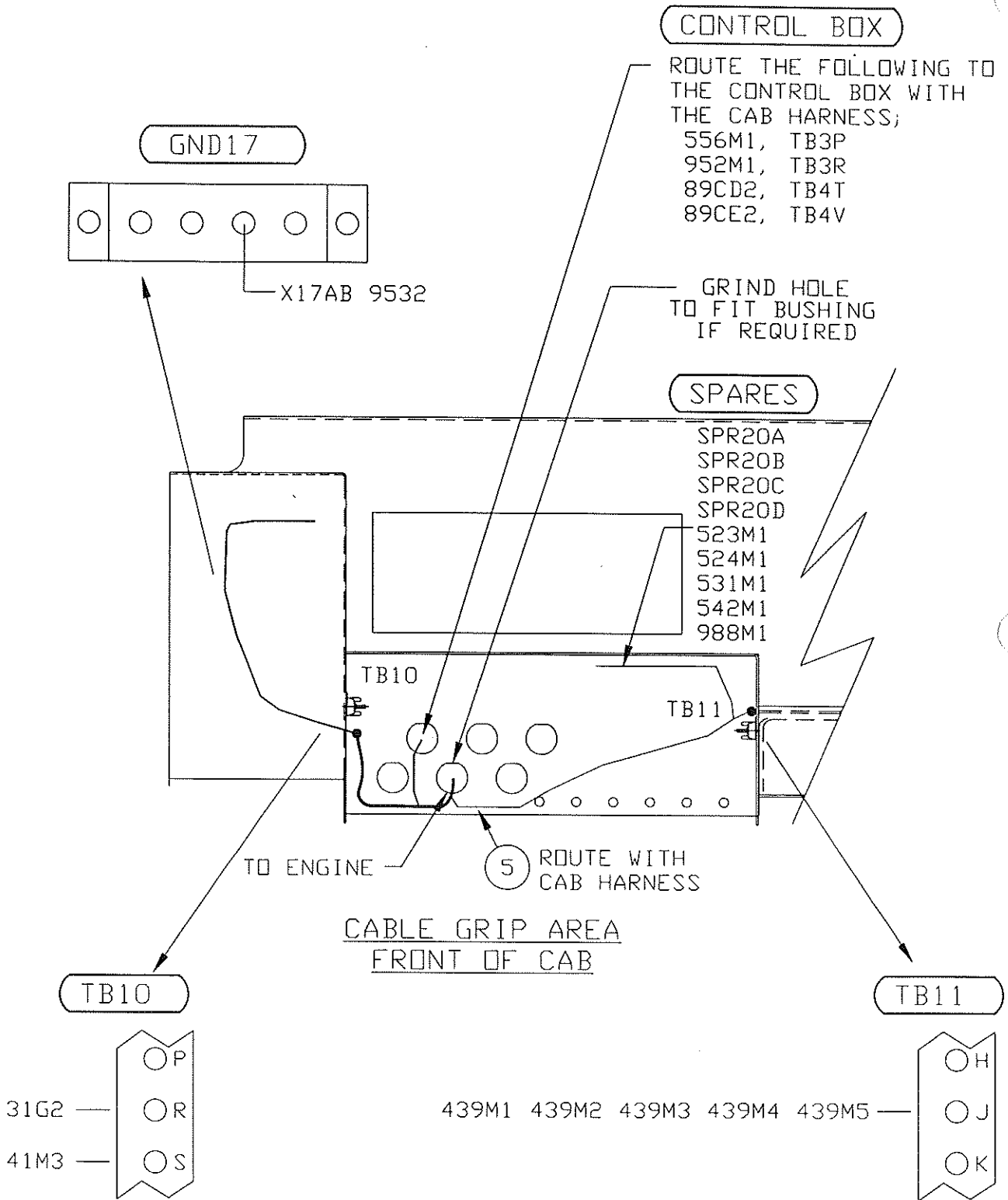
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SHEET 8 OF 9

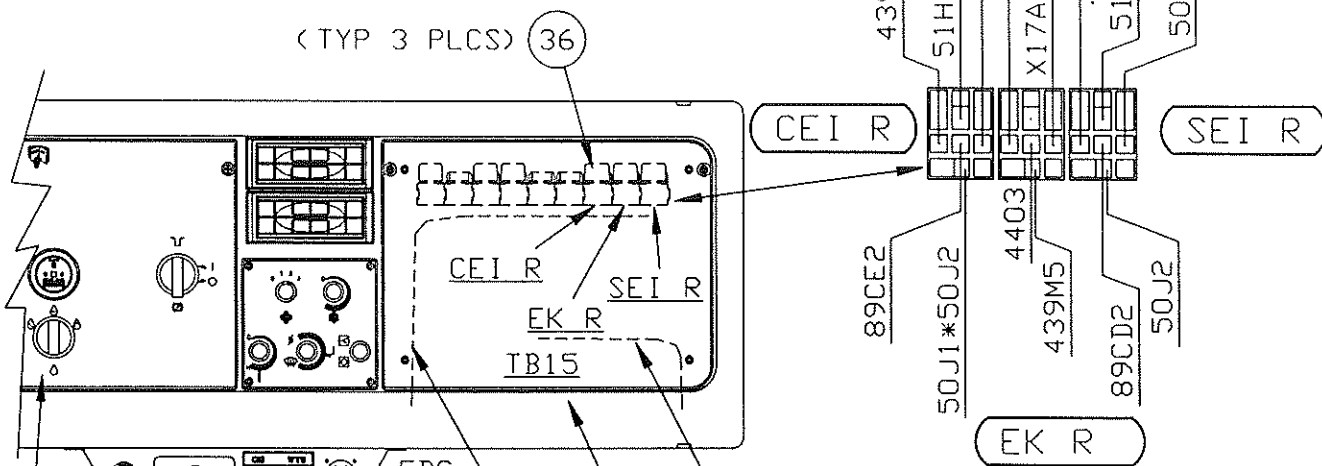
A85158

A85158

# VIEW B-B

(4X SCALE)

(TYP 3 PLCS) 36



38 39 63 64  
(TYP 4 PLCS)

EDC

EDC

901M1\*

439M2

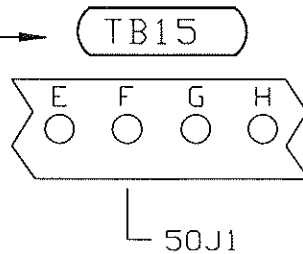
9532

900M1\*

- EDC-A, 900M1
- EDC-B, 901M1
- EDC-C, 439M2
- EDC-E, 9532

**\*NOTE:**

TWIST WIRES 900M1 & 901M1 TOGETHER 1 FULL TURN EVERY 12" - 18" THROUGH THEIR TOTAL LENGTH.



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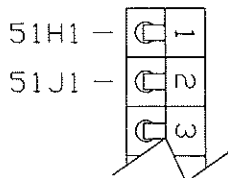
ES/S SW

82B2



41R1  
(1R2 EXISTING)

HI DP



ENGINE ELECTRIC  
ASSY - 4000

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ALYEST

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	1.00	84912P	HARNESS, DDEC POWER
3	1.00	84912K	HARNESS, DDEC ENGINE
4	1.00	84912M	KIT, POWER CABLE
5	1.00	84912N	HARNESS, DDEC CAB
6	1.00	84707A	MOUNT, RECEPTACLE
7	2.00	11103	CAPSCR, HX, 3/8-16NC X 7/8 GR 5
8	2.00	10164	WSHR, FL, 3/8 X 1.000 OD
9	4.00	26151	SCR, MACH, RHD, 6-32NC X 1/2 GR 2
10	4.00	25253	NUT-LOCK HX 6-32NC
11	4.00	26749	SCR, MACH, RHD, 4-40NC X 1/2 GR 2
12	4.00	26717	NUT, HEX(4-40NC) GR2
13	2.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
14	1.00	84724B	BOX, ELEC, CIRC BREAKER
15	1.00	55387	CIRCUIT BREAKER
16	4.00	53908	CIRCUIT BREAKER
17	10.00	52337	SCR, MACH, PNH, 10-32NF X 3/4 GR 2
18	10.00	12867	NUT HEX 10-32
19	10.00	28537	WSHR, LK, HELI, #10 X .334 OD
20	1.00	84725A	DECAL, BREAKER BOX
23	4.00	10001	CAPSCR, HX, 1/4-20NC X 3/4 GR 5
24	4.00	10178	WSHR, LK, HELI, 1/4 X .489 OD
25	4.00	10162	WSHR, FL, 1/4 X 0.625 OD
26	.00	55386	PROBE, COOLANT LEVEL
27	1.00	85193A	BRACKET, MAG SW
28	1.00	55885-30	CAPSCR, HXHD, M20X30MM 2.5 PITCH UNCR 10.9
29	2.00	10001	CAPSCR, HX, 1/4-20NC X 3/4 GR 5
30	2.00	10178	WSHR, LK, HELI, 1/4 X .489 OD
31	2.00	15675	NUT-HX, CRNLK 1/4-20NC STD GR B
32	1.00	17748	RELAY ALARM
33	1.00	56268	SENDER, WTR & OIL TEMP
34	1.00	55649-20	CAPSCR, HXHD, M8X20 MM 1.25 PITCH, UNCR, 8.8
35	1.00	10163	WSHR, FL, 5/16 X .687 OD

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ELLIS

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36	3.00	53898	RELAY, SPDT 24V
38	4.00	26749	SCR, MACH, RHD, 4-40NC X 1/2 GR 2
39	4.00	26717	NUT, HEX(4-40NC) GR2
41	50.00	18402	TIE, WRAP 3/16 TO 3-1/2 BUNDLE
42	9.00	18367	CLAMP-CUSHION 1-1/4
43	5.00	18666	CLAMP LOOP 19/32 I. D.
44	17.00	17141	CLAMP-CUSHION 7/8 7/8" ID
45	20.00	17142	CLAMP-CUSHION 1-1/16
46	3.00	10013	CAPSCR, HX, 3/8-16NC X 1-1/4 GR 5
47	10.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
48	10.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
49	50.00	17413	NUT-HEX, FLXLC 3/8-16
50	40.00	10164	WSHR, FL, 3/8 X 1.000 OD
53	1.00	1102852	DIODE ASSEMBLY
55	4.00	55353	WSHR, LK, HELI, #4
56	4.00	56286	WASHR, FL, #4 X 5/16 OD
57	4.00	22068	WSHR, FL, #6 X .375 OD
63	4.00	55353	WSHR, LK, HELI, #4
64	4.00	56286	WASHR, FL, #4 X 5/16 OD
99	.00	A85158	DWG ONLY, ENGINE ELECT

MT4400 WITH 16V4000  
 ENGINE

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SHEET 2 OF 2  
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