

# Parts Manual

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**Weld-Deck welding package CPW 125-4 SERIES 2  
and  
Slewing Canopy**

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S/N CB50600021 – UP

S/N 0372001400021 - UP (Slewing Canopy)

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**TO BE USED IN CONJUNCTION WITH  
CUMMINS PARTS CATALOG QSB6.7 CM850 S/N 73172617 - UP**

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**VANGUARD EQUIPMENT, INC.**  
**15627 EAST PINE STREET**  
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 **918.437.1796**  
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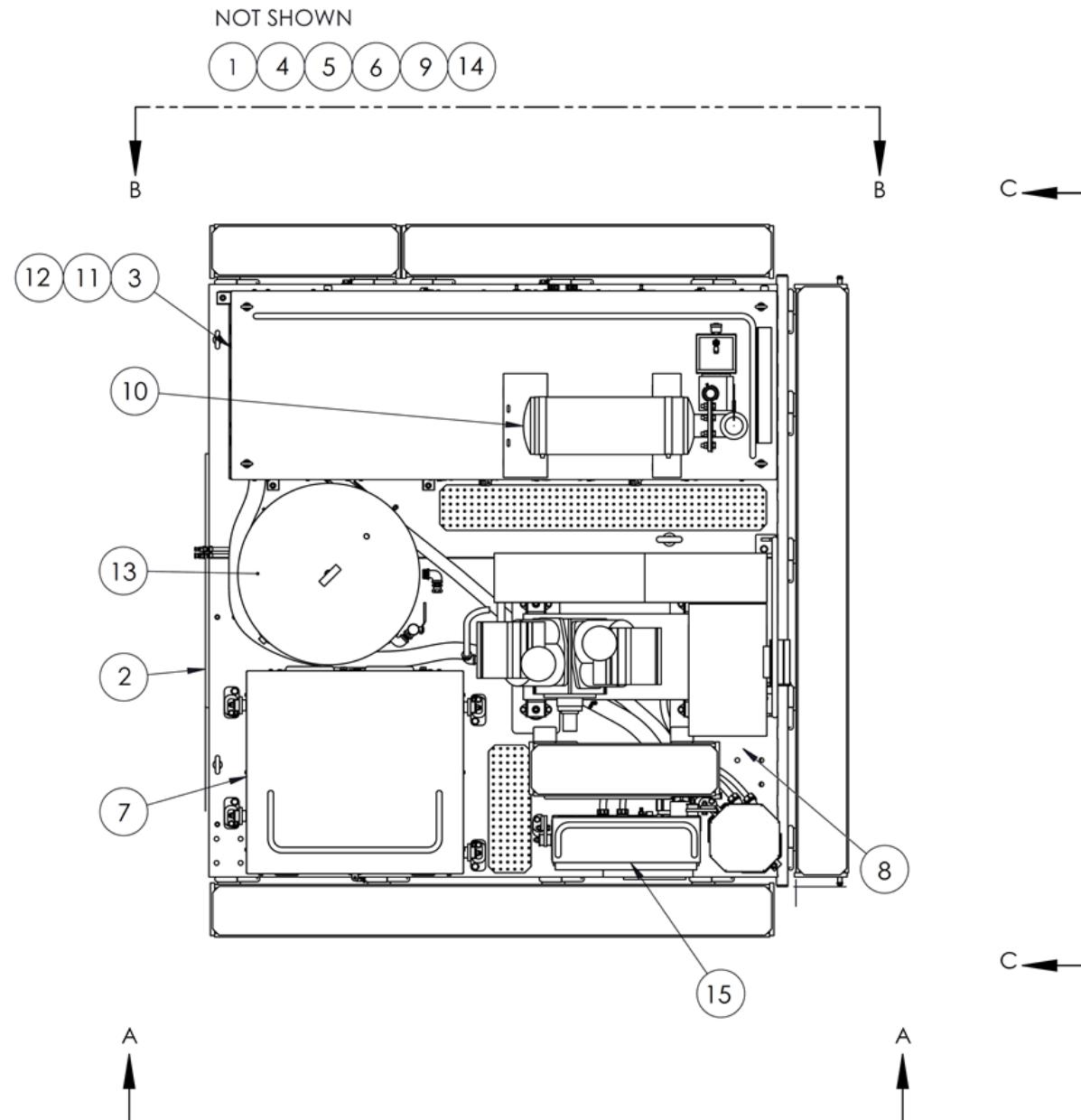
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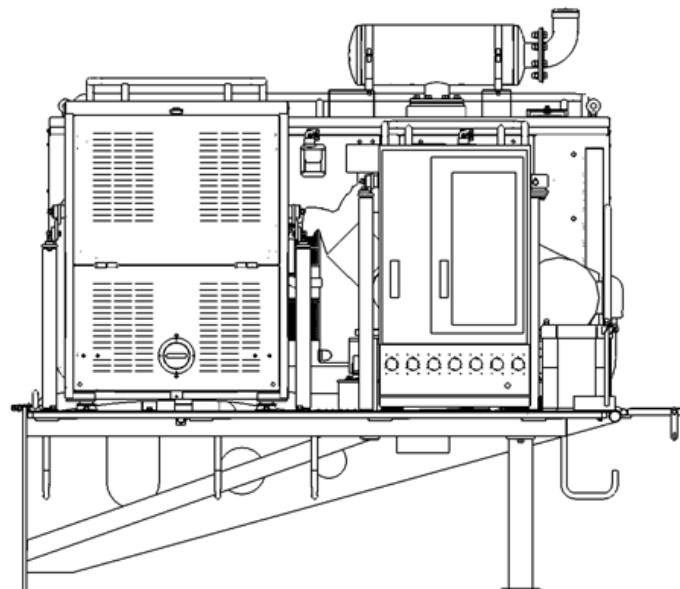
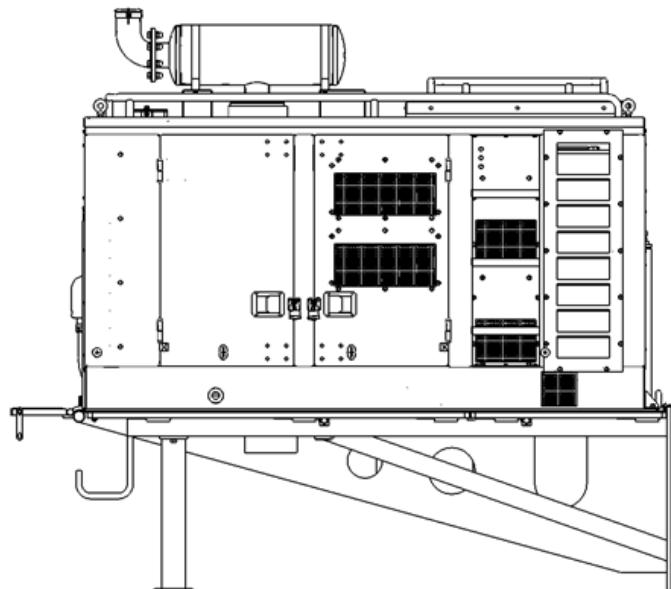
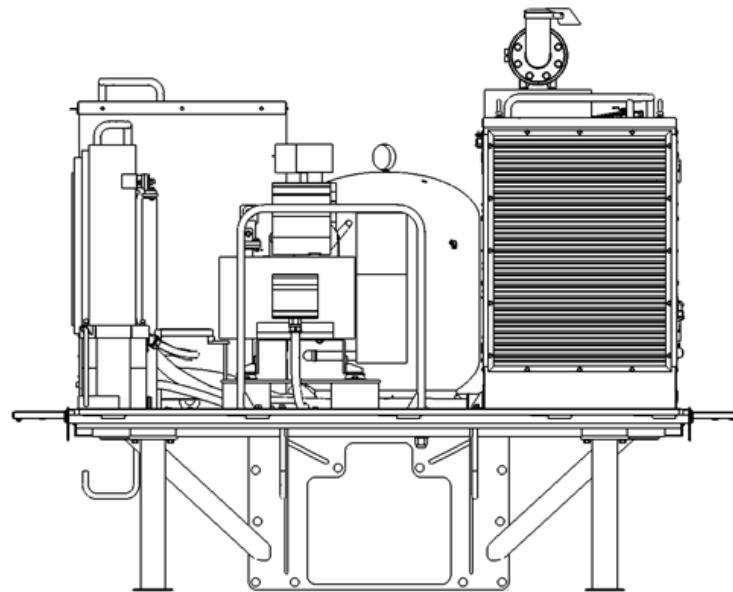
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LEFT SIDEVIEW ON B-B  
RIGHT SIDE

VIEW ON C-C

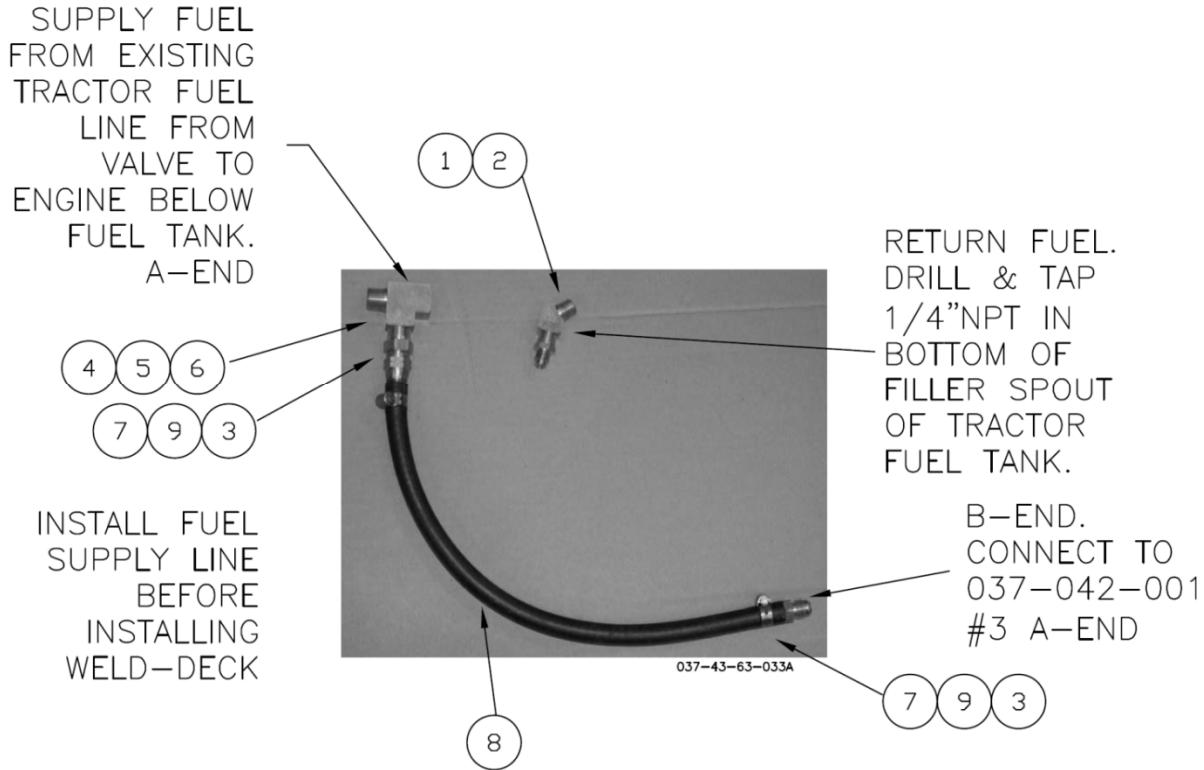
GP – CPW 125-4-S2 WELDING PACKAGE – WELD DECK				037-05-040
ITEM	QTY	PART NO	DESCRIPTION	
1	*1	037-05-002	OPT - TRACTOR CONNECTION MODULE	
2	1	037-10-110	GP - WELD DECK - S2 ENG	
3	1	037-11-250	AR - GENSET ENCLOSURE - S2 ENG	
4	*1	037-15-001	OPT - FRONT PLATFORM MODULE	
5	1	037-20-001	AS - WHOSE POLE	
6	*4	037-35-001	OPT - WELDER POWER UNIT	
7	*1	037-35-051	OPT - FRAME - WELDING MOUNT	
8	2	037-35-122	AS- WELDDECK GROUND STANDOFF	
9	*1	037-35-070	OPT - OFFSET JIB	
10	1	037-50-110	GP - SILENCER INDUSTRIAL - S2 ENG	
11	*1	037-50-113	GP-G-DR ENG W/HYD PUMP-ETHER START (0.87:1 FAN DR)	
12	1	037-50-122	GP - GENSET ROLL CONTROL - S2 ENG	
13	1	037-55-042	GP - COMPRESSED AIR MODULE 50/60 HZ	
14	*1	037-63-050	GP - OPERATOR'S MIRROR	
15	1	037-63-090	GP - CONTROL/DISTRIBUTION CENTER WELD-DECK S2	

\* SELECT FROM AVAILABLE OPTIONS

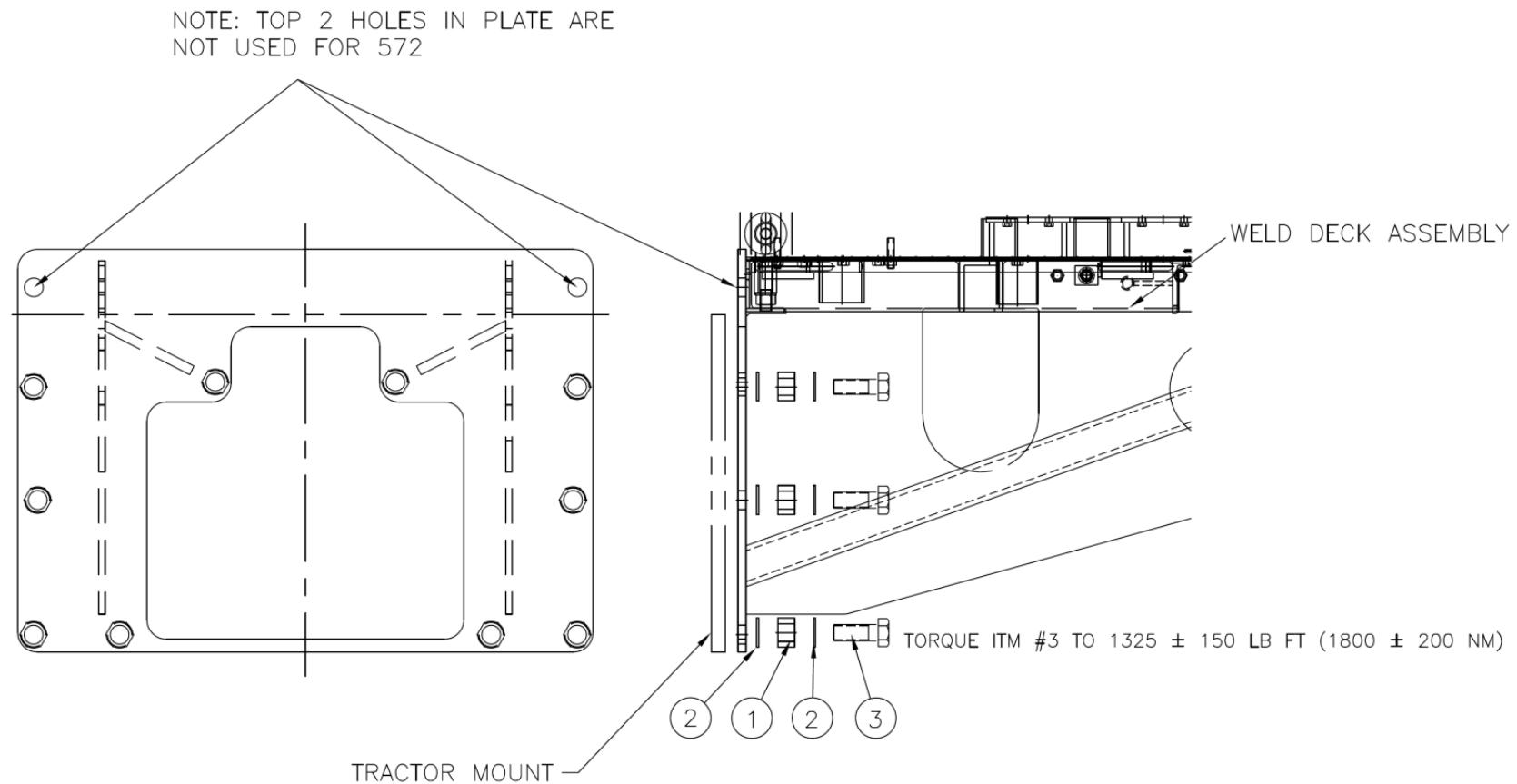
<b>OPT – TRACTOR CONNECTION MODULE</b>				037-05-002
ITEM	QTY	PART NO	DESCRIPTION	
1	*1	037-05-017	GP - CONNECTION KIT, 572G	
2	*1	037-05-018	GP - CONNECTION KIT, D6M/N	
3	*1	037-05-031	GP - CONNECTION KIT, D6D & 571	
4	*1	037-05-032	GP - CONNECTION KIT, 572R	
5	*1	037-05-033	GP - CONNECTION KIT, D6R/T	

\* OPTIONAL: IF REQUIRED, SELECT ONE ITEM ONLY FROM THE LIST SHOWN

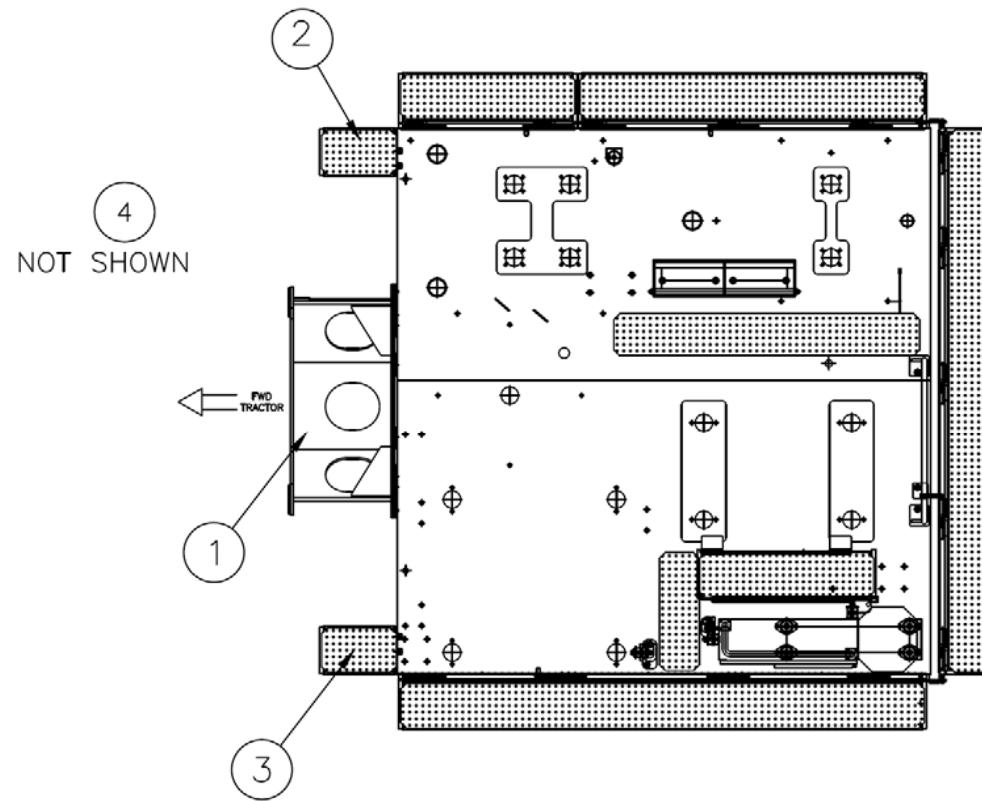
<b>GP - CONNECTION KIT, 572</b>				037-05-017
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-71-013	AS - WELD-DECK MOUNTING KIT, 572	
2	1	037-71-003	GP - FUEL LINE HOOKUP, 572	



ITEM	QTY	PART NO	DESCRIPTION
1	1	PARK# 2214P-4-4	BRASS 45 DEG STREET ELBOW NPT 1/4
2	1	PARK# 48F-4-4	BRASS ADAPTER M SAE #4 -M NPT 1/4"
3	2	PARK# 97HC-6	FF - CLAMP HOSE 3/8"
4	1	PARK# 2225P-8	BRASS RUN TEE NPT 1/2"
5	1	PARK# 209P-8-6	FF - BRASS REDUCER NPT 1/2 - 3/8
6	1	006-43-011	FF - JIC FSW/NPT M -6/-6 BRASS
7	2	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD - 3/8" NPT MALE
8	1	037-42-044	FH - HOSE FUEL SUPPLY LINE (Ø3/8"x16"LNG)
9	2	PARK# 6-6 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -6/-6



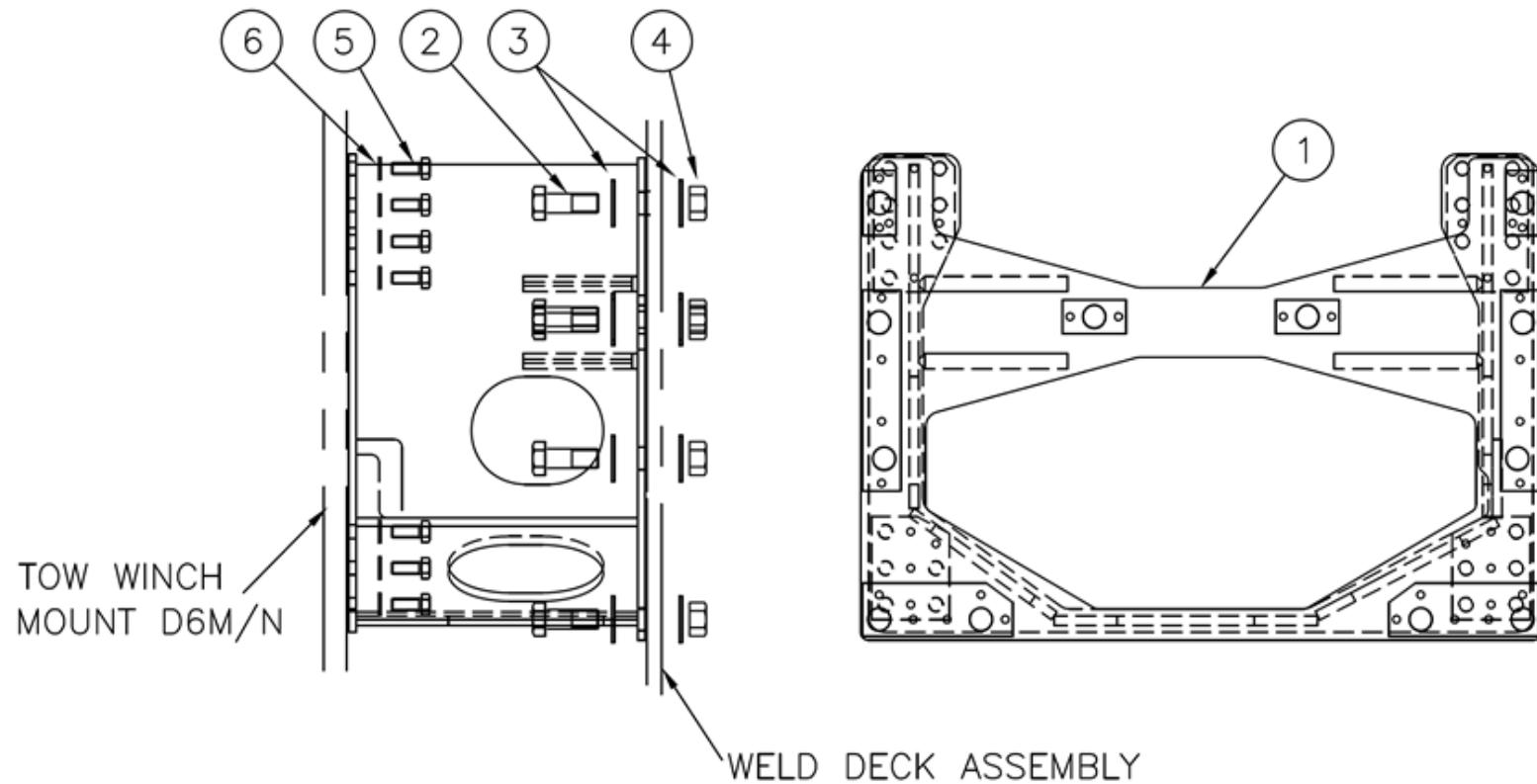
ITEM	QTY	PART NO	DESCRIPTION
1	10	037-71-028	TUBE - MOUNTING SPACER
2	20	CAT# 7X-0533	WASHER, FLAT HARD PLATED 1 1/4 IN
3	10	CAT# 7X-0427	HEX HD BOLT 1 1/4-7NC X 3 1/2 LNG PLATED



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-71-010	AS - ZIPPER PLT D6N/D6M
2	1	037-14-066	AS - RIGHT HAND BRIDGING CATWALK
3	1	037-14-057	AS - LEFT HAND BRIDGING CATWALK
4	1	037-71-002	GP - FUEL LINE HOOKUP, D6M/N

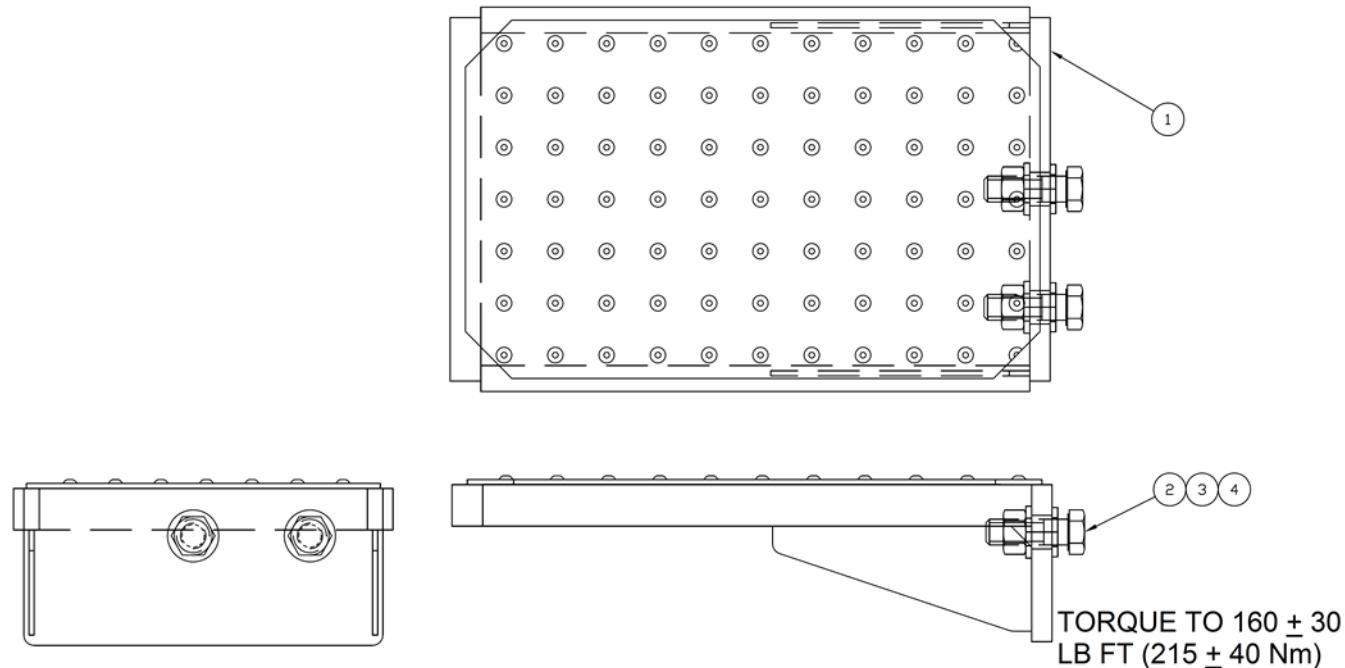
TORQUE ITEM #2 TO 1325 ± 150 LB FT (1800 ± 200 NM)

TORQUE ITEM #5 TO 340 ± 44 LB FT (460 ± 60 NM)

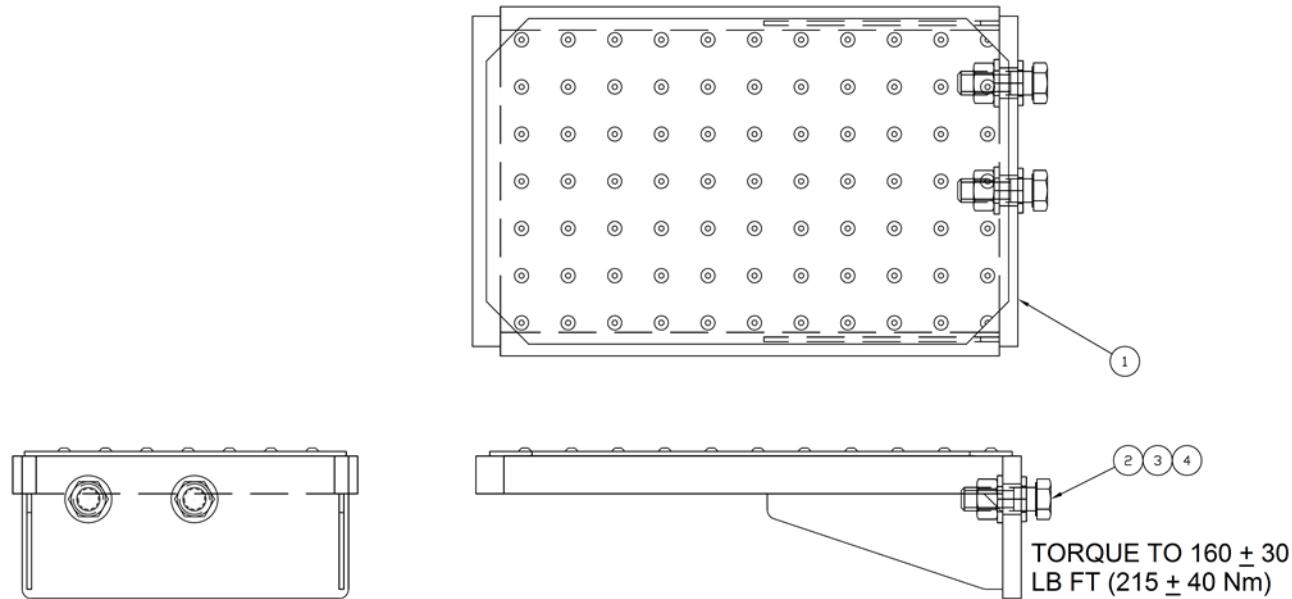


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-71-011	AS - ZIPPER PLT D6N/D6M
2	12	CAT# 7X-0427	HEX HD BOLT, PLATED 1 1/4-7NC X 3 1/2 LNG
3	24	CAT# 7X-0533	WASHER, FLAT HARD, PLATED 1 1/4 IN
4	12	CAT# 7X-0451	NUT 1 1/4-7NC HARD PLATED
5	24	CAT# 8T-6430	HEX HD BOLT, PLATED M20 X 2.50 X 50MM LNG
6	24	CAT# 8T-4123	WASHER, FLAT HARD, PLATED 20MM

NOTES:



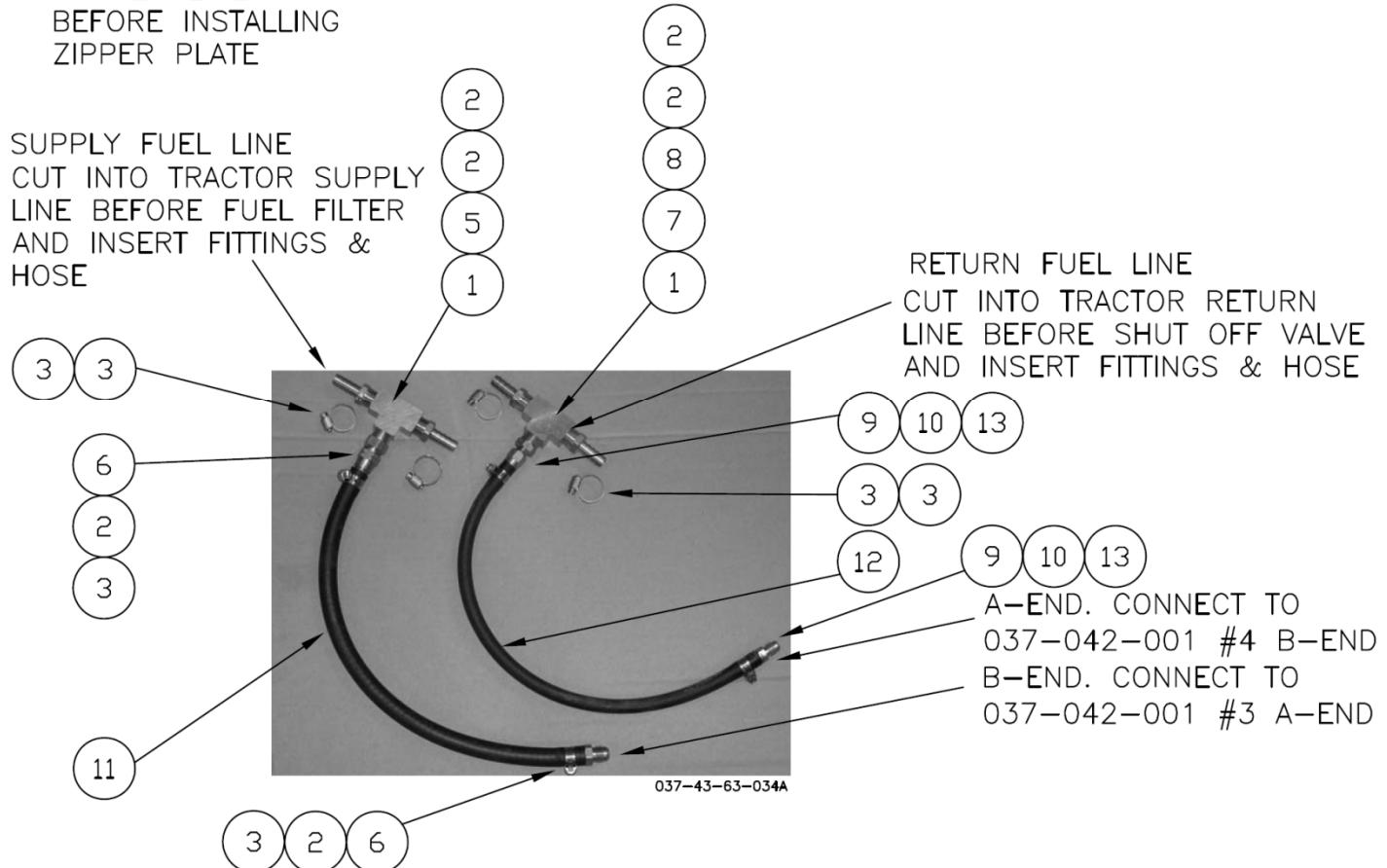
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-14-065	AS - BRIDGING CATWALK RIGHT HAND
2	2	CAT#7X-0346	5/8-11 UNC x 2 LNG HX HD PLATED BOLT
3	2	CAT# 3K-2889	5/8-11 HARD PLATED NUT SELF-LOCKING
4	4	CAT#8T-4122	5/8 WASHER HARD PLATED



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-14-058	AS - BRIDGING CATWALK LEFT HAND
2	2	CAT#7X-0346	5/8-11 UNC x 2 LNG HX HD PLATED BOLT
3	2	CAT# 3K-2889	5/8-11 HARD PLATED NUT SELF-LOCKING
4	4	CAT#8T-4122	5/8 WASHER HARD PLATED

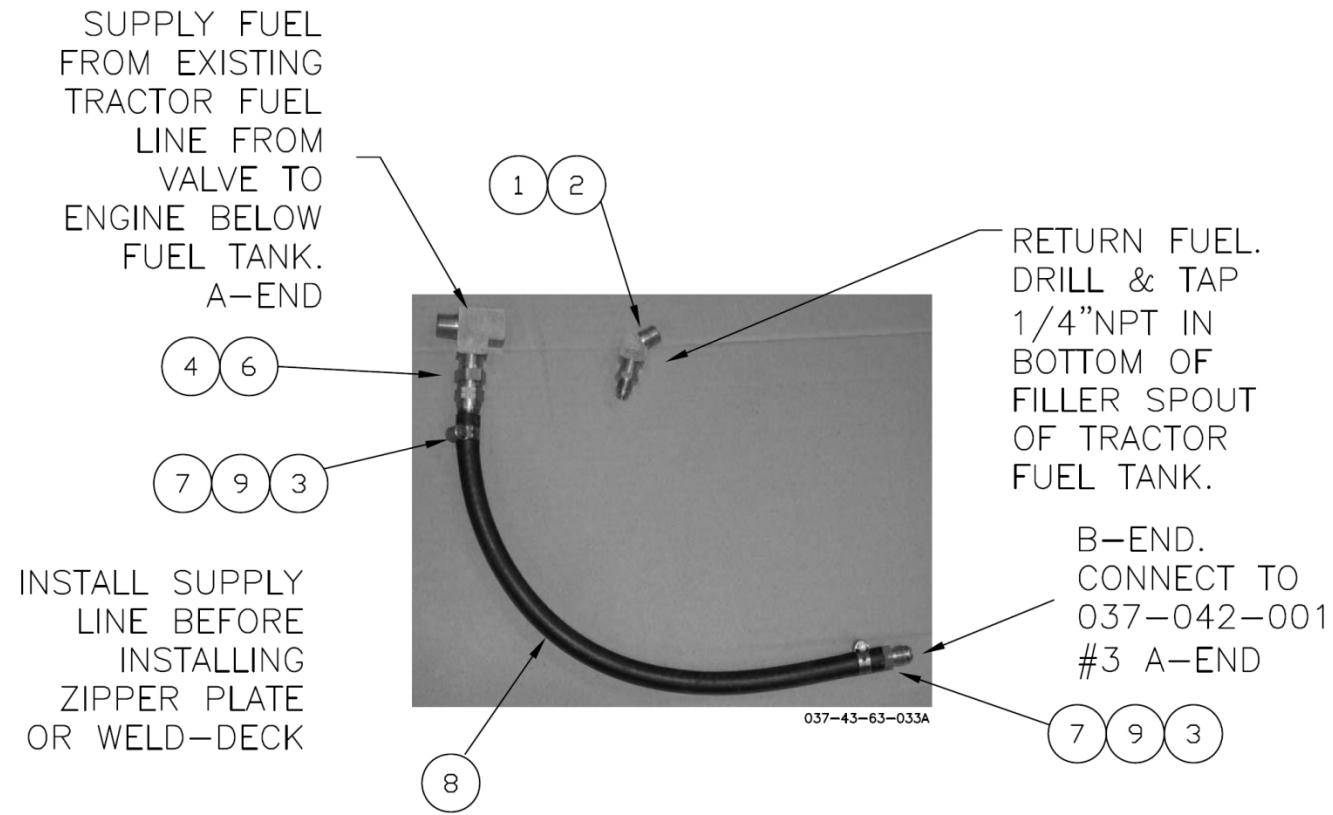
NOTE: INSTALL  
JUMPER LINES  
BEFORE INSTALLING  
ZIPPER PLATE

SUPPLY FUEL LINE  
CUT INTO TRACTOR SUPPLY  
LINE BEFORE FUEL FILTER  
AND INSERT FITTINGS &  
HOSE

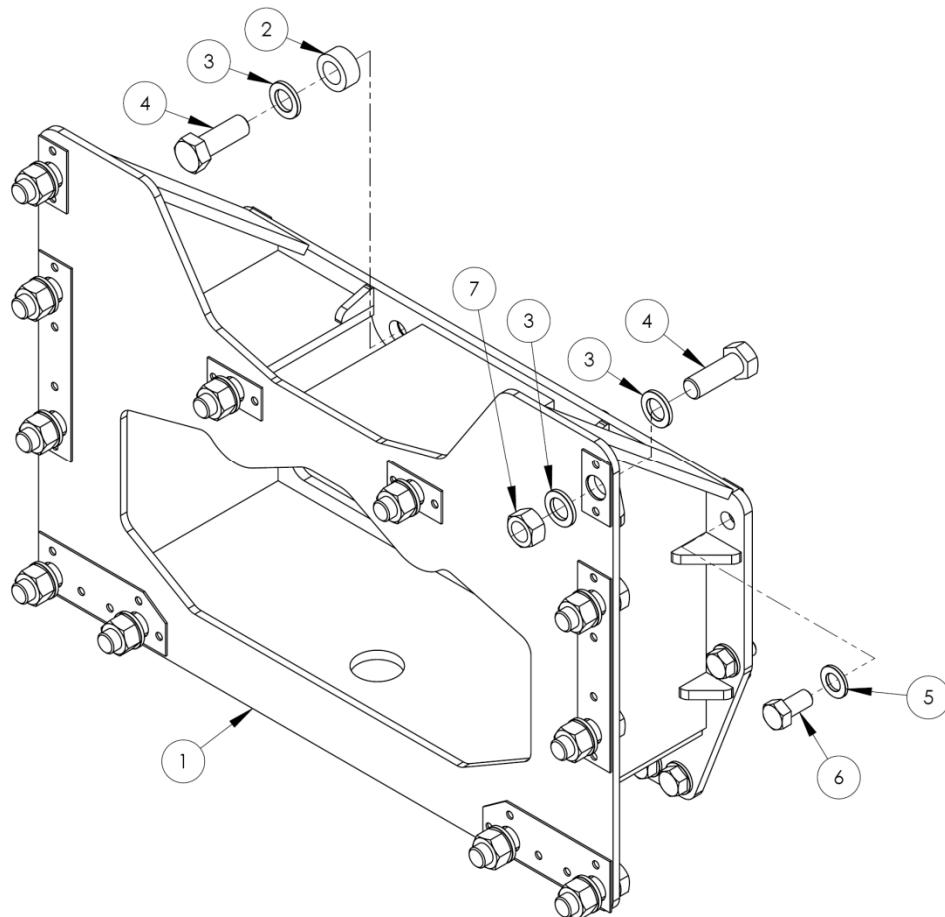


GP - FUEL LINE HOOKUP, D6M/D6N				037-71-002
ITEM	QTY	PART NO	DESCRIPTION	
1	2	PARK# 2203P-6	BRASS TEE FM 3/8"NPT	
2	6	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD - 3/8" NPT MALE	
3	6	PARK# 97HC-6	FF - CLAMP HOSE 3/8"	
5	1	006-43-011	FF - JIC FSW/NPT M -6/-6 BRASS	
6	2	PARK# 6-6 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -6/-6	
7	1	PARK# 209P-6-4	FF - BRASS REDUCER NPT 3/8 - 1/4	
8	1	006-43-010	FF - JIC FSW/NPT M -4/-4 BRASS	
9	2	PARK# 97HC-3	FF - CLAMP HOSE 1/4"	
10	2	006-43-013	FF - BRASS 1/4" HOSE BEAD - 1/4" NPTM	
11	1	037-42-044	FH - HOSE FUEL SUPPLY LINE (Ø3/8"x16)LNG)	
12	1	037-42-045	FH - HOSE FUEL RETURN LINE (Ø1/4"x16)LNG)	
13	2	PARK# 4-4 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -4/-4	

GP - CONNECTION KIT CAT, D6D & 571				037-05-031
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-71-030	GP - ZIPPER PLT D6D & 571	
2	1	037-71-004	GP - FUEL LINE HOOKUP D6D & 571	



ITEM	QTY	PART NO	DESCRIPTION
1	1	PARK# 2214P-4-4	BRASS 45 DEG STREET ELBOW NPT 1/4
2	1	PARK# 48F-4-4	BRASS ADAPTER M SAE #4 -M NPT 1/4 IN
3	2	PARK# 97HC-6	FF - CLAMP HOSE 3/8"
4	1	PARK# 2225P-6	BRASS RUN TEE NPT 3/8"
6	1	006-43-011	FF - JIC FSW/NPT M -6/-6 BRASS
7	2	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD - 3/8" NPT MALE
8	1	037-42-044	FH - HOSE FUEL SUPPLY LINE (Ø3/8"x16"LNG)
9	2	PARK# 6-6 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -6/-6



## TORQUE:

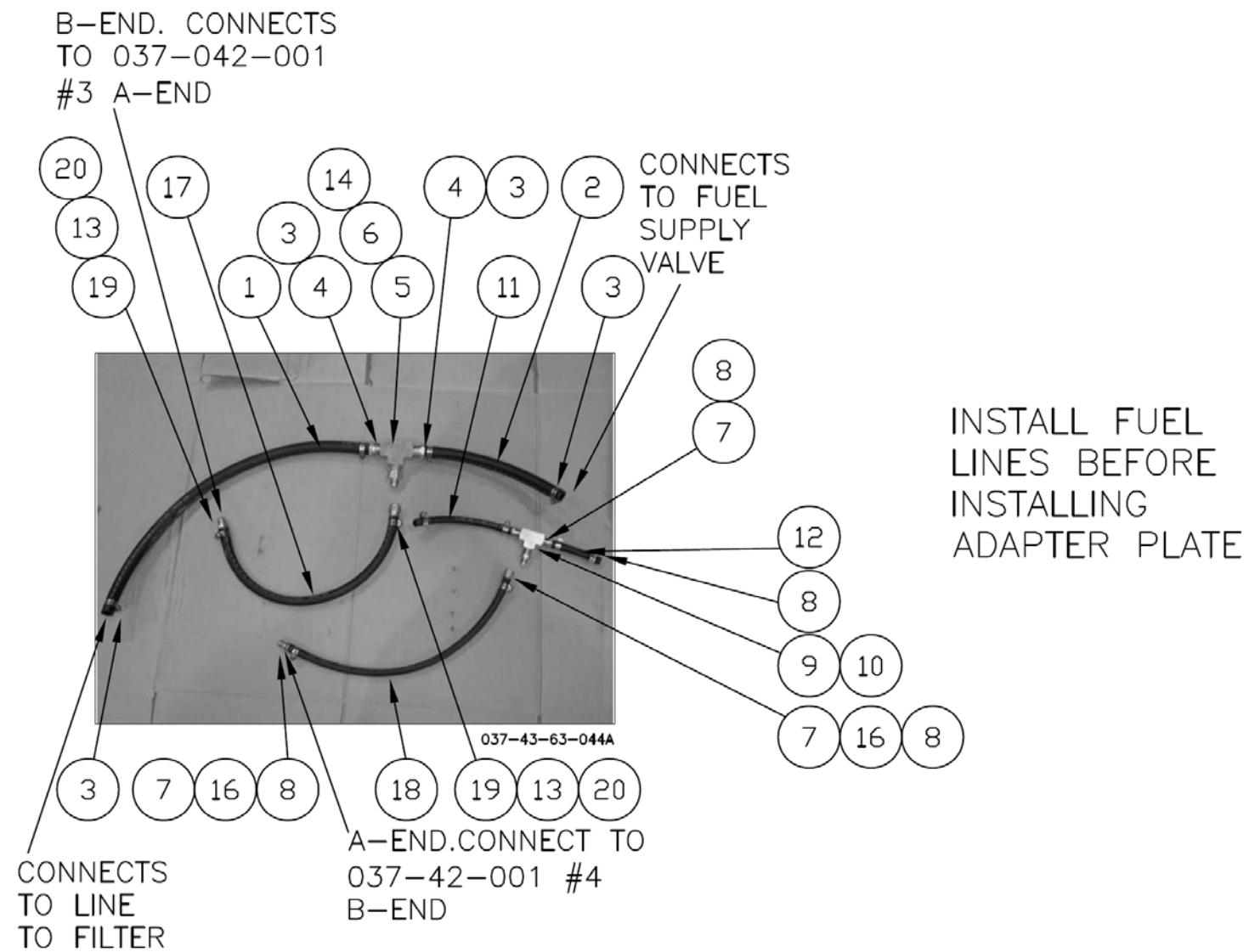
FOR 1"-8 UNC BOLTS  
660 ± 75 FT LBS  
900 ± 100 Nm

FOR 1-1/4"-7 UNC BOLTS  
1325 ± 150 FT LBS  
1800 ± 200 Nm

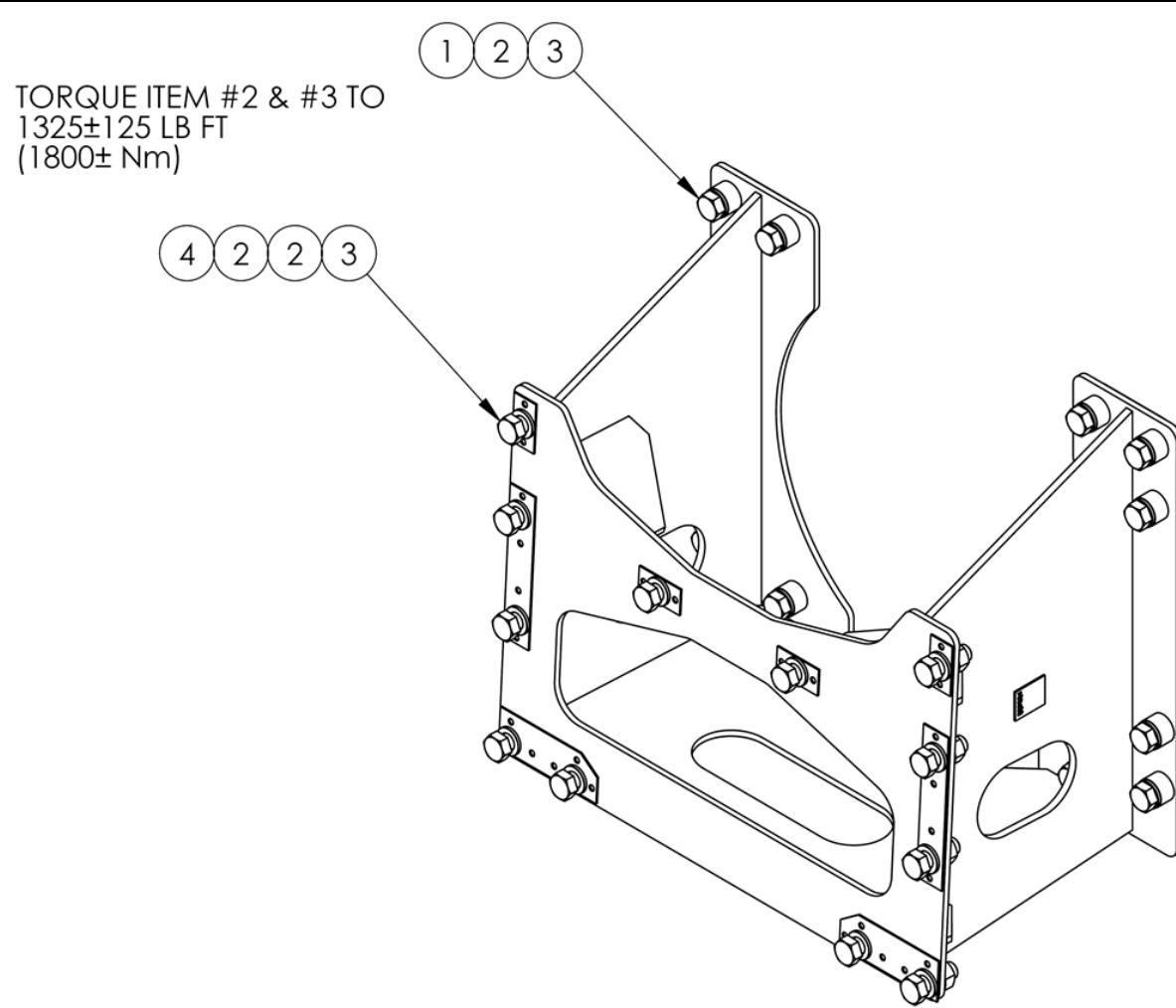
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-71-031	AS - ZIPPER PLATE MACHINING - D6D
2	2	037-71-064	TUBE - ZIPPER BOLT SPACER D6D
3	26	CAT# 7X-0533	WASHER - 1 1/4 HARD
4	14	CAT# 7X-0427	BOLT - 1 1/4-7 UNC X 3.5 HEX
5	8	CAT# 8T-5361	HDW - WASHER 1 HARD
6	8	CAT# 7X-0402	BOLT - 1-8 UNC X 2 HEX
7	12	CAT# 7X-0451	NUT - 1 1/4-7 UNC HEX

NOTES:

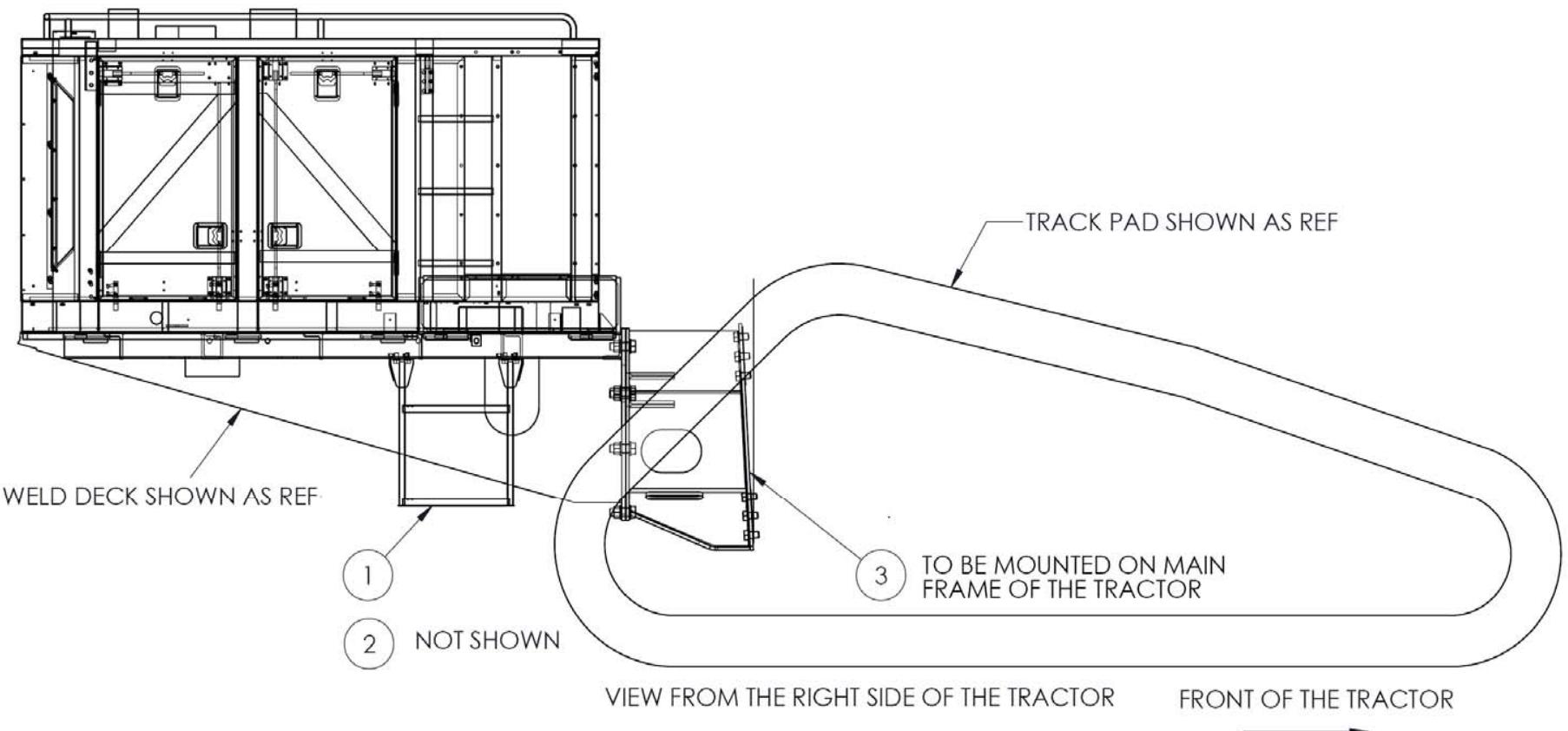
<b>GP – CONNECTION KIT CAT 572R</b>				037-05-032
<b>ITEM</b>	<b>QTY</b>	<b>PART NO</b>	<b>DESCRIPTION</b>	
1	1	037-71-045	GP - ZIPPER PLT 572R	
2	1	037-71-005	GP - FUEL LINE HOOKUP 572R	



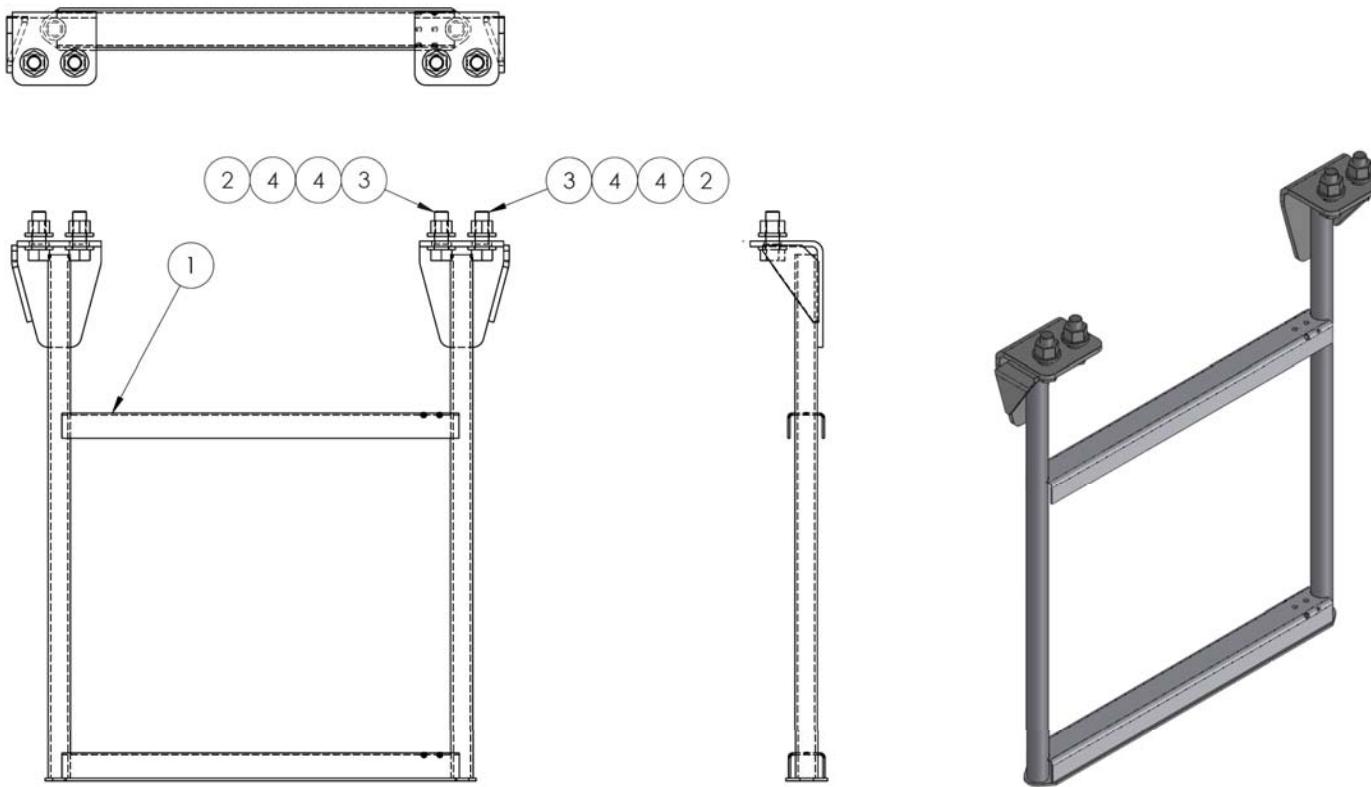
GP - FUEL LINE HOOKUP, 572R				037-71-005
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-42-046	FH - HOSE FUEL SUPPLY LINE	
2	1	037-42-047	FH - HOSE FUEL SUPPLY LINE	
3	4	PARK# 97HC-8	FF - CLAMP HOSE 1/2"	
4	2	PARK# 68HB-8-8	FF - BRASS 1/2" HOSE BEAD - 1/2" NPT MALE	
5	1	PARK# 2203P-8	BRASS TEE 1/2" NPT FEMALE	
6	1	PARK# 209P-8-6	FF - BRASS REDUCER NPT 1/2 - 3/8	
7	4	006-43-013	FF - BRASS 1/4" HOSE BEAD - 1/4" NPTM	
8	6	PARK# 97HC-3	FF - CLAMP HOSE 1/4"	
9	1	PARK# 2203P-4	BRASS TEE 1/4 NPT FEMALE	
10	1	006-43-010	FF - JIC FSW/NPT M -4/-4 BRASS	
11	1	037-42-048	FH - HOSE FUEL RETURN LINE	
12	1	037-42-049	FH - HOSE FUEL RETURN LINE	
13	2	PARK# 6-6 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -6/-6	
14	1	006-43-011	FF - JIC FSW/NPT M -6/-6 BRASS	
16	2	PARK# 4-4 GTX-B	FF - BRASS ADAPTER - NPTF/JICM -4/-4	
17	1	037-42-044	FH - HOSE FUEL SUPPLY LINE	
18	1	037-42-045	FH - HOSE FUEL RETURN LINE	
19	2	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD	
20	2	PARK# 97HC-6	FF - CLAMP HOSE 3/8"	



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-71-046	AS-ZIPPER PLT D7R MACHINING
2	36	CAT# 7X-0533	WASHER - 1 1/4 HARD
3	24	CAT #7X-0427	BOLT - 1 1/4-7 UNC X 3.5 HEX
4	12	CAT # 7X-0451	NUT - 1 1/4-7 UNC HEX



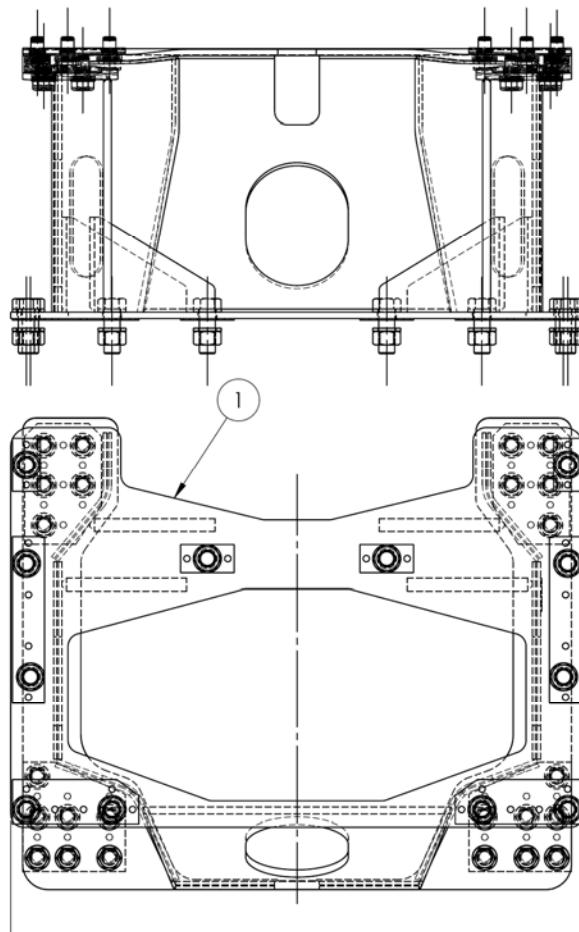
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-14-070	GP - 22" STRAIGHT LADDER, UNDER MOUNT, WELD DECK
2	1	037-71-002	GP - FUEL LINE HOOKUP D6M/N
3	1	037-71-080	GP - ZIPPER PLT D6R/T WELD DECK



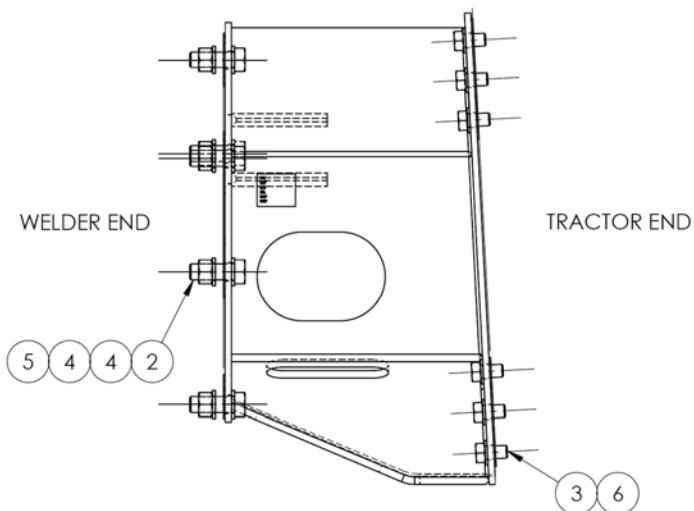
ALL BOLTS TORQUE TO  $160 \pm 30$  lb-ft ( $215 \pm 40$  N-m).

INSTALL LOCKNUTS AT FINAL ASSEMBLY,  
SHIP MOUNTING HARDWARE LOOSE.

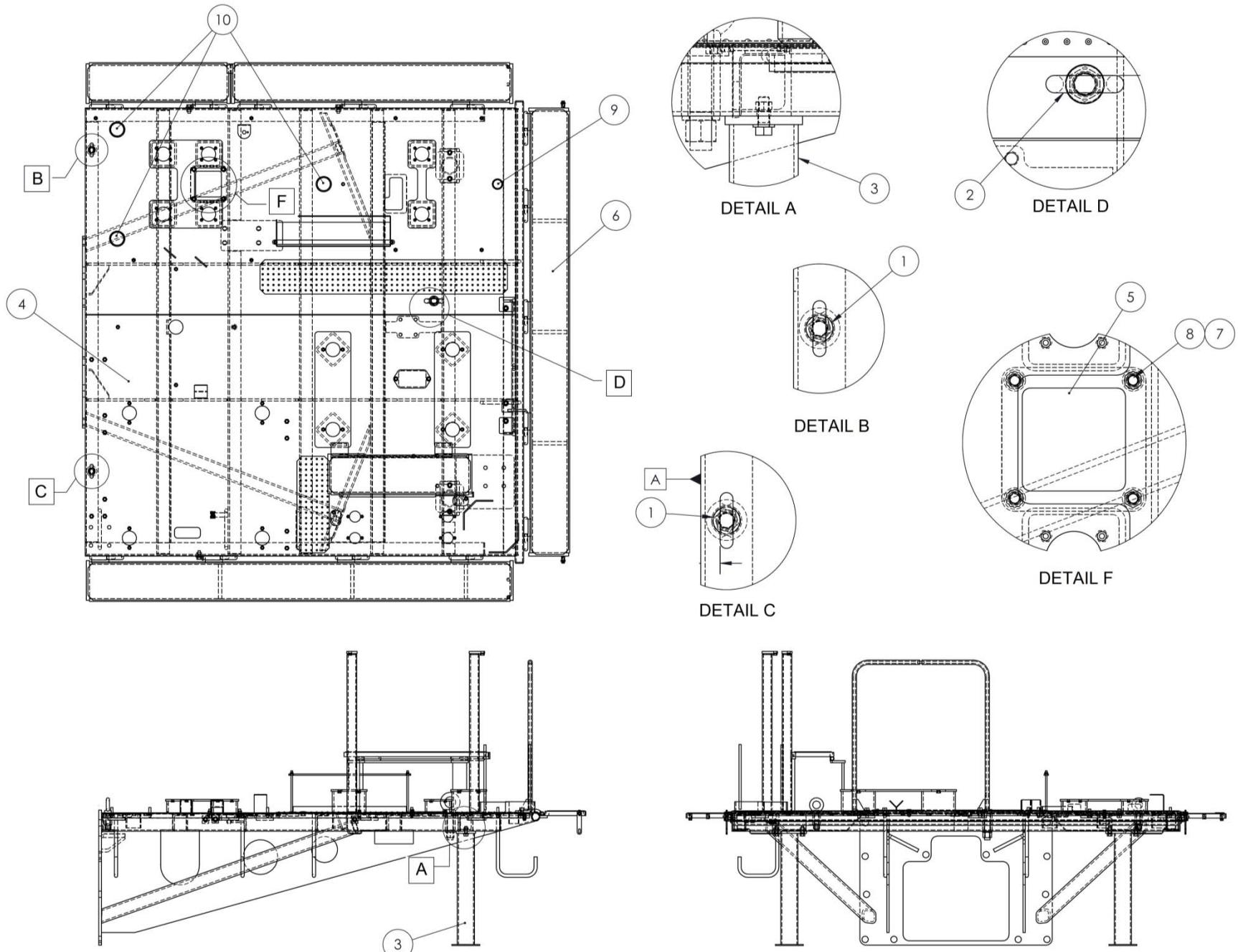
ITEM	QTY	PART NO	DESCRIPTION
1	4	037-14-071	AS - 22" STRAIGHT LADDER, UNDER MOUNT
2	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD
3	4	CAT# 7X-0345	BOLT - 5/8-11 X 1.75 UNC HEX
4	8	CAT# 8T-4122	HDW - WASHER 5/8



NOTE:  
1 1/4" BOLTS TORQUE TO  $1325 \pm 150$  lb-ft ( $1800 \pm 200$  N-m)  
1" BOLTS TORQUE TO  $660 \pm 75$  lb-ft ( $900 \pm 100$  N-m)



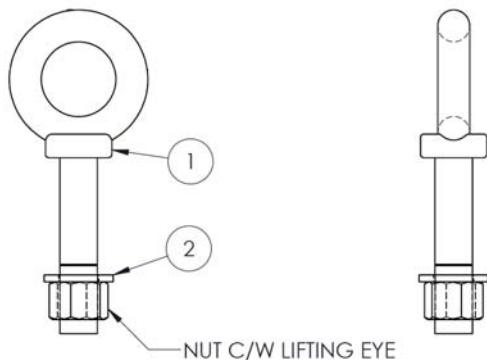
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-71-081	AS - ZIPPER PLT D6R/T, MACHINING
2	12	CAT# 7X-0427	BOLT - 1 1/4-7 UNC X 3.5 HEX
3	24	CAT# 7X-0401	BOLT - 1-8 UNC X 1 3/4 HEX
4	24	CAT# 7X-0533	WASHER - 1 1/4 HARD
5	12	CAT# 7X-0451	NUT - 1 1/4-7 UNC HEX
6	24	CAT# 8T-5361	HDW - WASHER 1 HARD



GP – WELD-DECK – S2 ENGINE				037-10-110
ITEM	QTY	PART NO	DESCRIPTION	
1	2	037-10-072	AS - 7/8UNCx4-1/8 LIFTING EYE 10600 LB VERTICAL LIFT, 3180 LB 45°-INLINE LIFT	
2	1	037-10-073	AS - 1-1/4UNCx6-1/4 LIFTING EYE 21000 LB VERTICAL LIFT, 6300 LB 45°-INLINE LIFT	
3	2	037-10-095	AS - SHIP LEG	
4	1	037-10-111	AS - REAR DECK - S2 ENG	
5	1	037-10-127	PLT - DECK CLEANOUT COVER	
6	1	037-14-005	AS - REAR DECK ACCESS WAYS	
7	4	CAT# 8T-4122	HDW - WASHER 5/8	
8	4	CAT# 8T-9393	BOLT - 5/8-11 X 1.5 UNC HEX	
9	1	MMC# 2495K12	HDWM - DECK DRAIN, 2"	
10	3	MMC# 2495K13	HDWM - DECK DRAIN, 3"	

**AS - 7/8UNCx4-1/8 LIFTING EYE 10600 LB VERTICAL LIFT, 3180 LB 45°-INLINE LIFT**

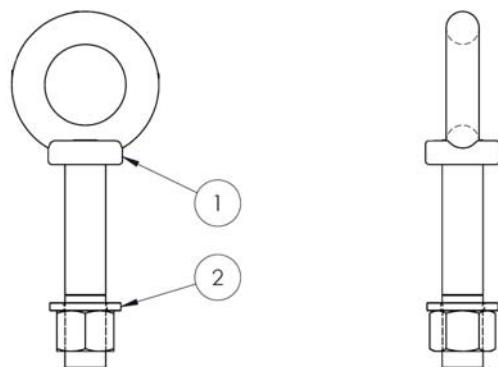
037-10-072



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-30-001	RIG - LIFTING EYE 7/8UNC x 4-1/8 LNG
2	1	CAT# 8C-6913	HDW - WASHER 7/8"

**AS - 1-1/4UNCx6-1/4 LIFTING EYE 21000 LB VERTICAL LIFT, 6300 LB 45°-INLINE LIFT**

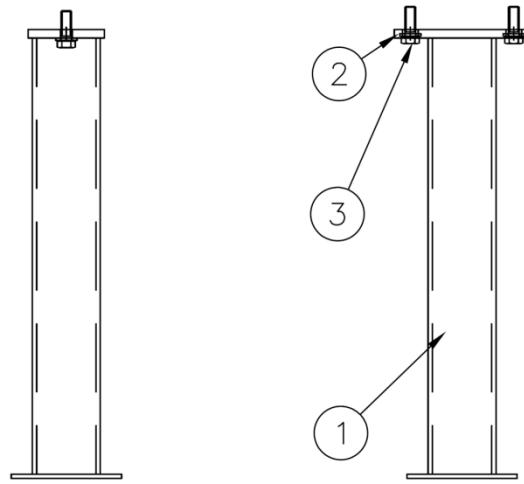
037-10-073



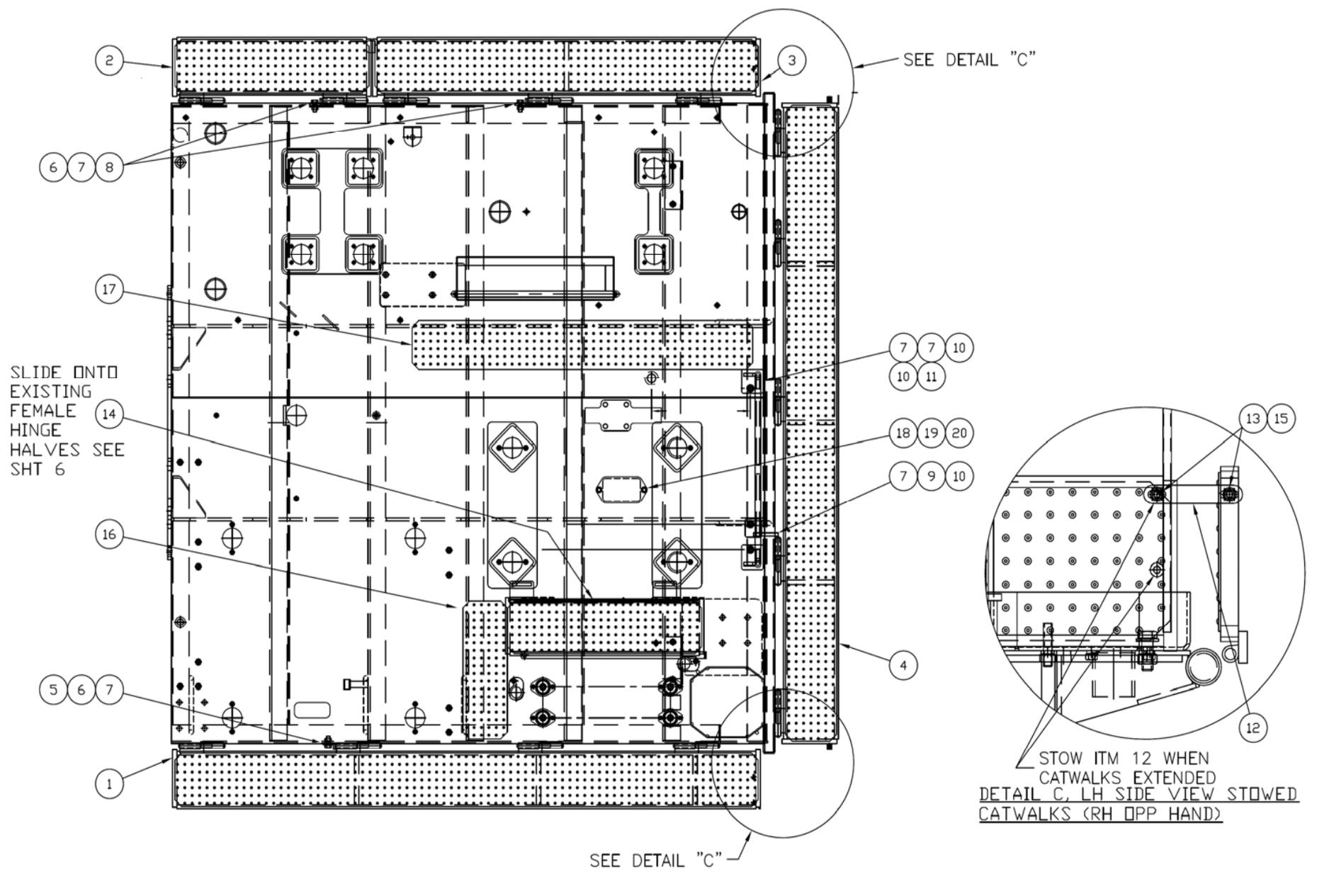
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-30-002	RIG - LIFTING EYE 1-1/4UNC x 6-1/4 LNG
2	1	CAT# 7X-0533	WASHER - 1 1/4 HARD

AS - SHIP LEG

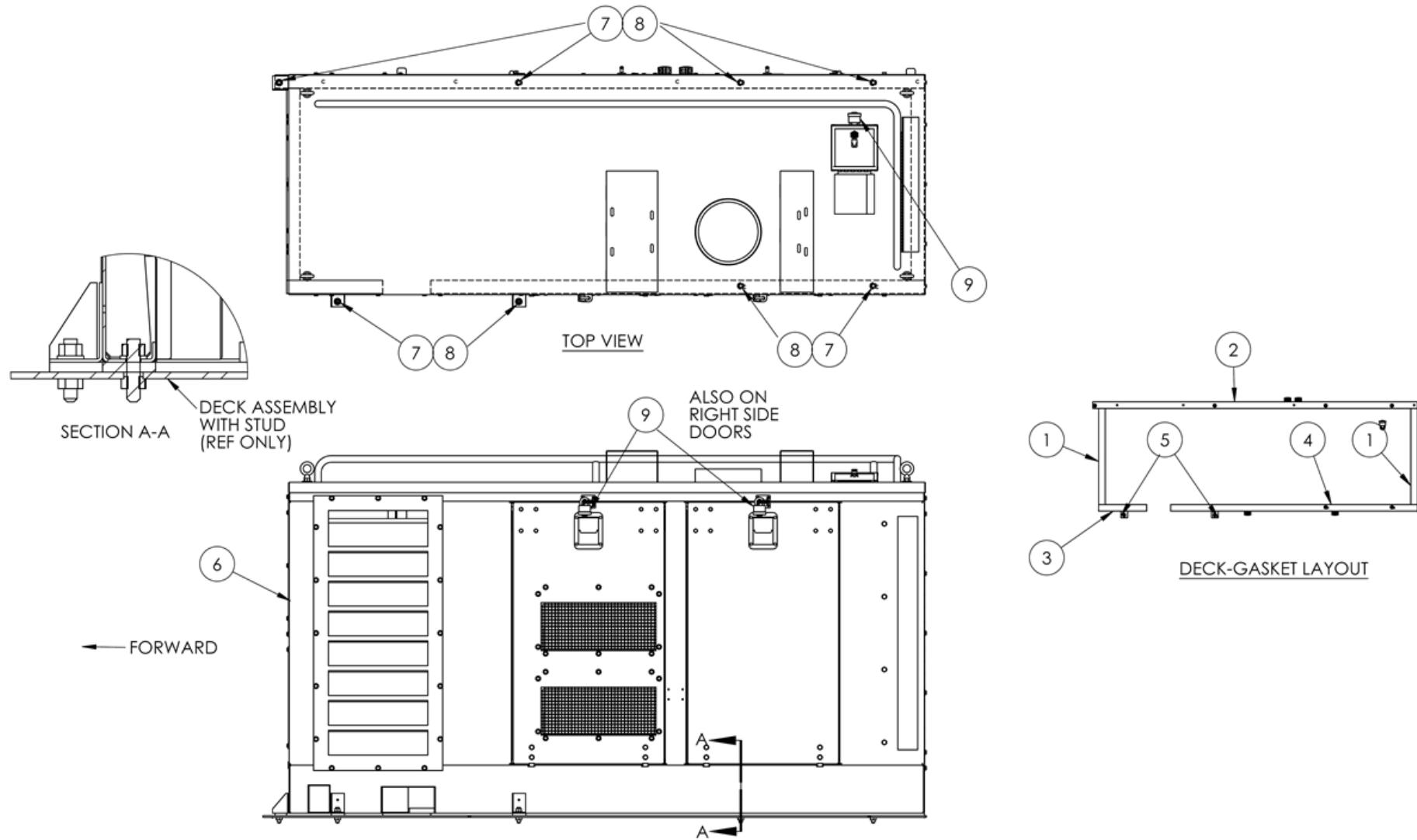
037-10-095



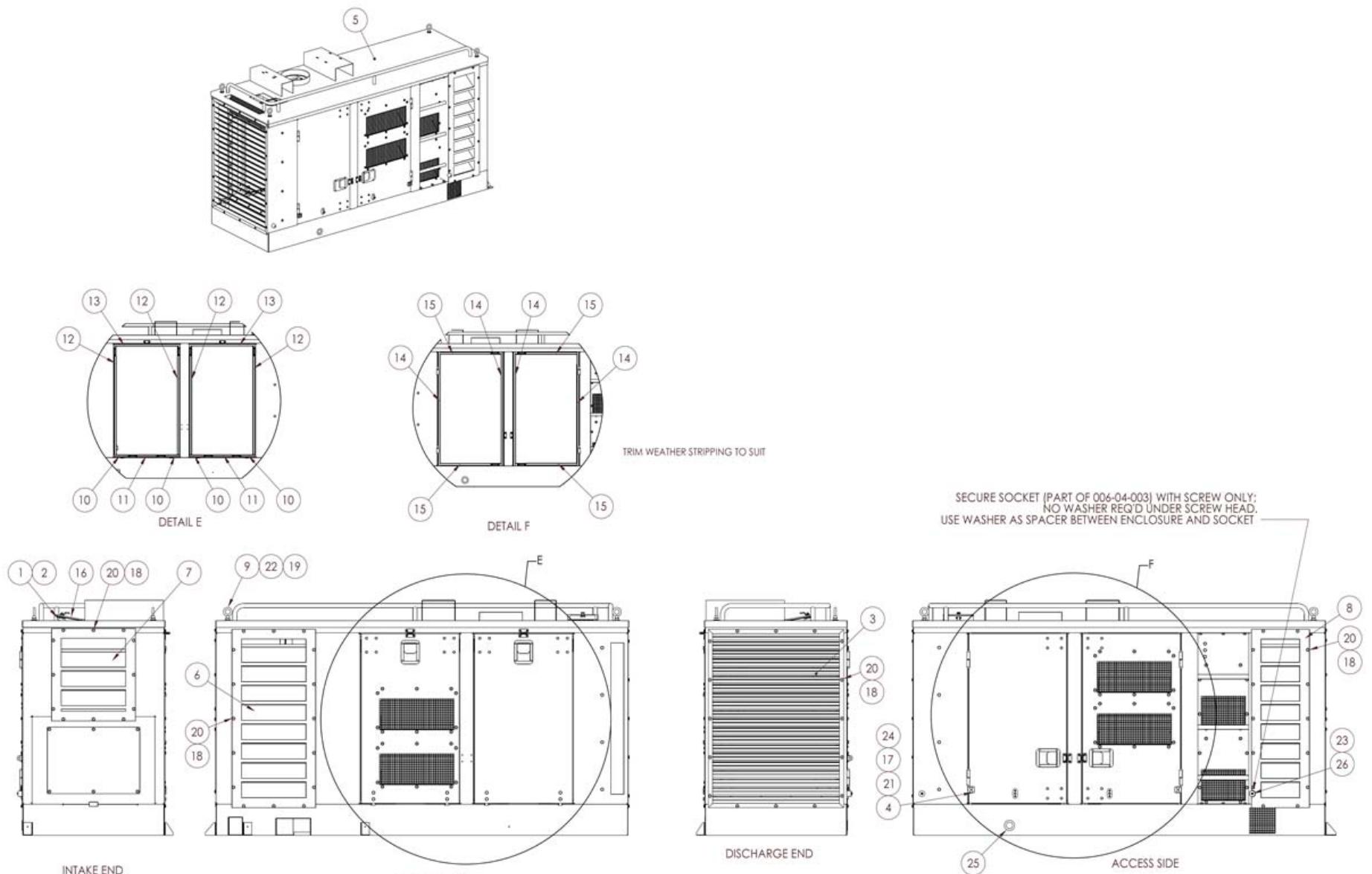
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-10-035	SHIP LEG
2	2	CAT# 8T-4122	WASHER-FLAT-HARD-PLATED 5/8-IN
3	2	CAT# 7X-0345	CAPSCREW-HEX HD-PLATED 5/8-11UNC x 1.75 LNG



AS REAR DECK ACCESS WAYS PLAN VIEW				037-14-005
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-14-006	AS - DOGHOUSE CATWALK	
2	1	037-14-016	AS - GENSET FWD CATWALK	
3	1	037-14-013	AS - GENSET REAR CATWALK	
4	1	037-14-037	AS - DECK REAR CATWALK	
5	1	037-14-020	AS - CATWALK RETAINER LH	
6	3	CAT# 8T-9393	BOLT - 5/8-11UNCx1.5LNG HX HD PLATED	
7	6	CAT# 8T-4122	5/8 WASHER HARD PLATED	
8	2	037-14-025	AS - CATWALK RETAINER RH	
9	1	037-14-049	AS - REAR ACCESS WAY KEEPER	
10	3	CAT#7X-0345	BOLT - 5/8-11UNCx1-3/4LNG HX HD PLATED	
11	1	037-14-052	AS - HANDRAIL REAR	
12	2	037-14-069	PLT - CATWALK LATCH	
13	4	CAT# 5M-3062	BOLT - 3/8-16UNCx3/4LNG HX HD PLATED	
14	1	037-14-026	AS - ELEC BOX INNER CATWALK	
15	4	CAT# 8T-4896	WASHER - 3/8 HARD PLATED	
16	1	037-14-041	PLT - DOGHOUSE DECK TREAD	
17	1	037-14-056	PLT - GENSET INNER CATWALK TREAD	
18	1	037-10-100	PLT - COVER	
19	2	CAT# 8T-8917	HEX HD BOLT, 1/2-13 NC X 1 1/4 IN	
20	2	CAT# 8T-4223	WASHER, FLAT HARD Ø1/2	

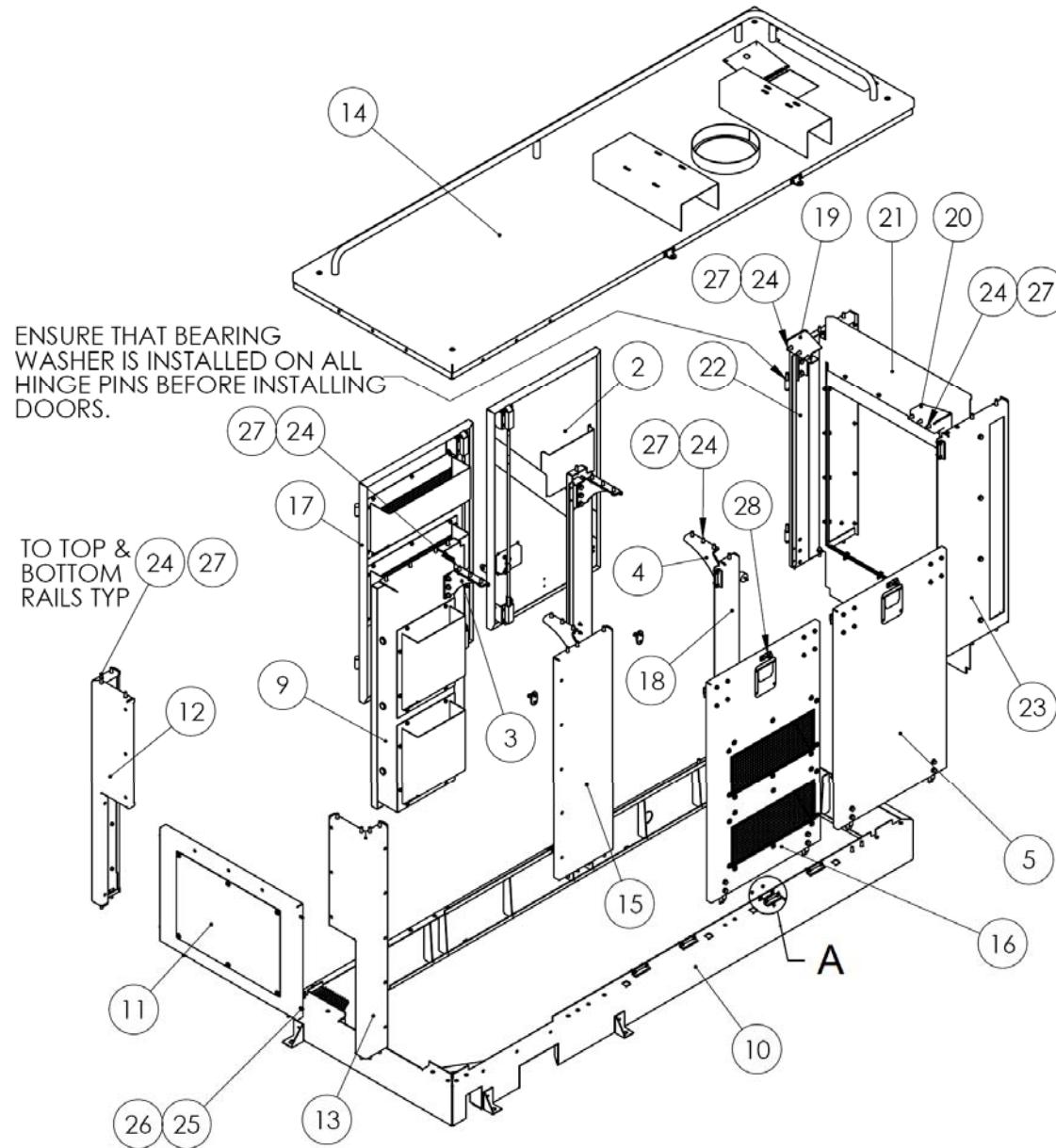


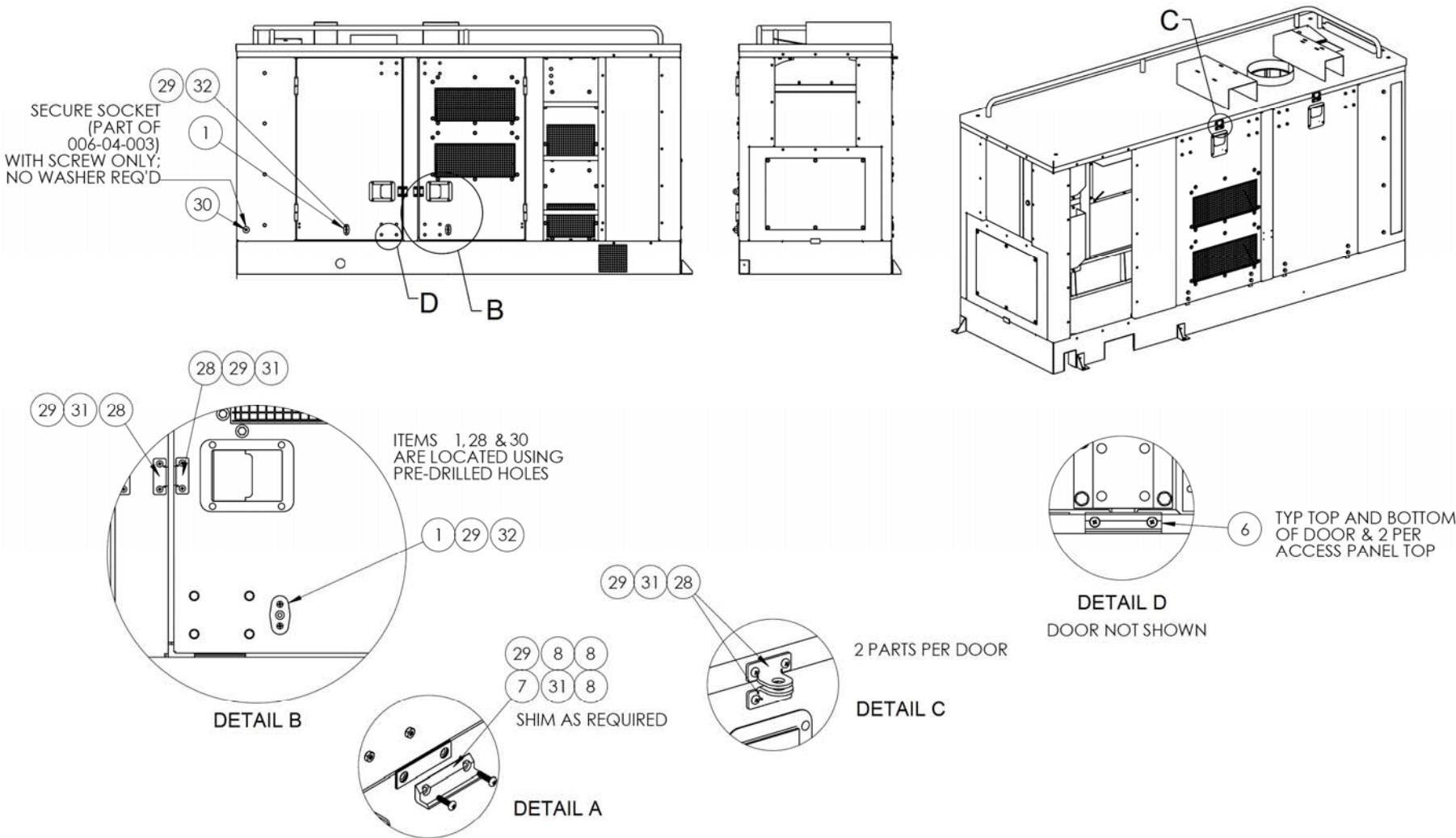
AR – GENSET ENCLOSURE – S2 ENGINE				037-11-250
ITEM	QTY	PART NO	DESCRIPTION	
1	2	037-11-022	HDWM - GASKET, NEOPRENE 3/8 X 2 X 29	
2	1	037-11-023	HDWM - GASKET, NEOPRENE 3/8 X 2 X 98	
3	1	037-11-024	HDWM - GASKET, NEOPRENE 3/8 X 2 X 14 1/2	
4	1	037-11-025	HDWM - GASKET, NEOPRENE 3/8 X 2 X 74 1/2	
5	2	037-11-026	HDWM - GASKET, NEOPRENE 3/8 X 2 X 2	
6	1	037-11-251	GP - GENSET ENCLOSURE - S2 ENG	
7	8	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
8	8	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
9	5	CAT# 246-2641	HDWM - PADLOCK	



GP - GENSET ENCLOSURE - S2 ENG				037-11-251
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-04-001	HDWM - LATCH, QTR TURN, WING	
2	1	006-04-002	HDWM - CAM, 8MM	
3	1	037-11-008	AS - REAR DISCHARGE GRILL	
4	2	037-11-104	PLT - DOOR STOP	
5	1	037-11-252	AS - GENSET ENCLOSURE - S2 ENG	
6	1	037-11-321	AS - GENSET INTAKE LOUVER LEFT INTAKE - S2 ENG	
7	1	037-11-322	AS - GENSET INTAKE LOUVER FRONT INTAKE - S2 ENG	
8	1	037-11-323	AS - GENSET INTAKE LOUVER RIGHT INTAKE - S2 ENG	
9	4	037-11-361	HDWM - EYEBOLT 1/2-13x1.25"	
10	4	037-11-368	HDWM - EDGE TRIM /W WEATHER STRIP - 6"	
11	2	037-11-369	HDWM - EDGE TRIM /W WEATHER STRIP - 8"	
12	4	037-11-370	HDWM - EDGE TRIM /W WEATHER STRIP - 35.5"	
13	2	037-11-371	HDWM - EDGE TRIM /W WEATHER STRIP - 24.25"	
14	4	037-11-372	HDWM - EDGE TRIM /W WEATHER STRIP - 41"	
15	4	037-11-373	HDWM - EDGE TRIM /W WEATHER STRIP - 19"	
16	4	037-11-374	HDWM - FOAM RUBBER GASKET - 8"	
17	4	CAT# 031-4155	HDW - HEX NUT, SELF-LOCK 5/16NC	
18	58	CAT# 4B-5269	HDW - USS WASHER 1/4"	
19	4	CAT# 4B-5273	WASHER, USS (34.93MM)	
20	58	CAT# 4M-5281	HDW - BOLT 1/4"-3/4	
21	4	CAT# 4M-6425	HDW - BOLT 5/16 - 18 X 1"	
22	4	CAT# 6V-8188	HDW - NUT 1/2-13 ZINC PLATED	
23	1	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
24	4	CAT# 8T-4224	HDW - WASHER M8	
25	1	MCC# 9600K63	HDWM - MMC 2" SRB RUBBER GROMMET 1 REQ	
26	1	MCC# 91772A542	HDW - PAN HEAD PHILLIPS MACHINE SCREW 1/4"-28 X 1	

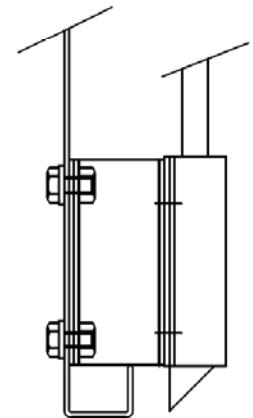
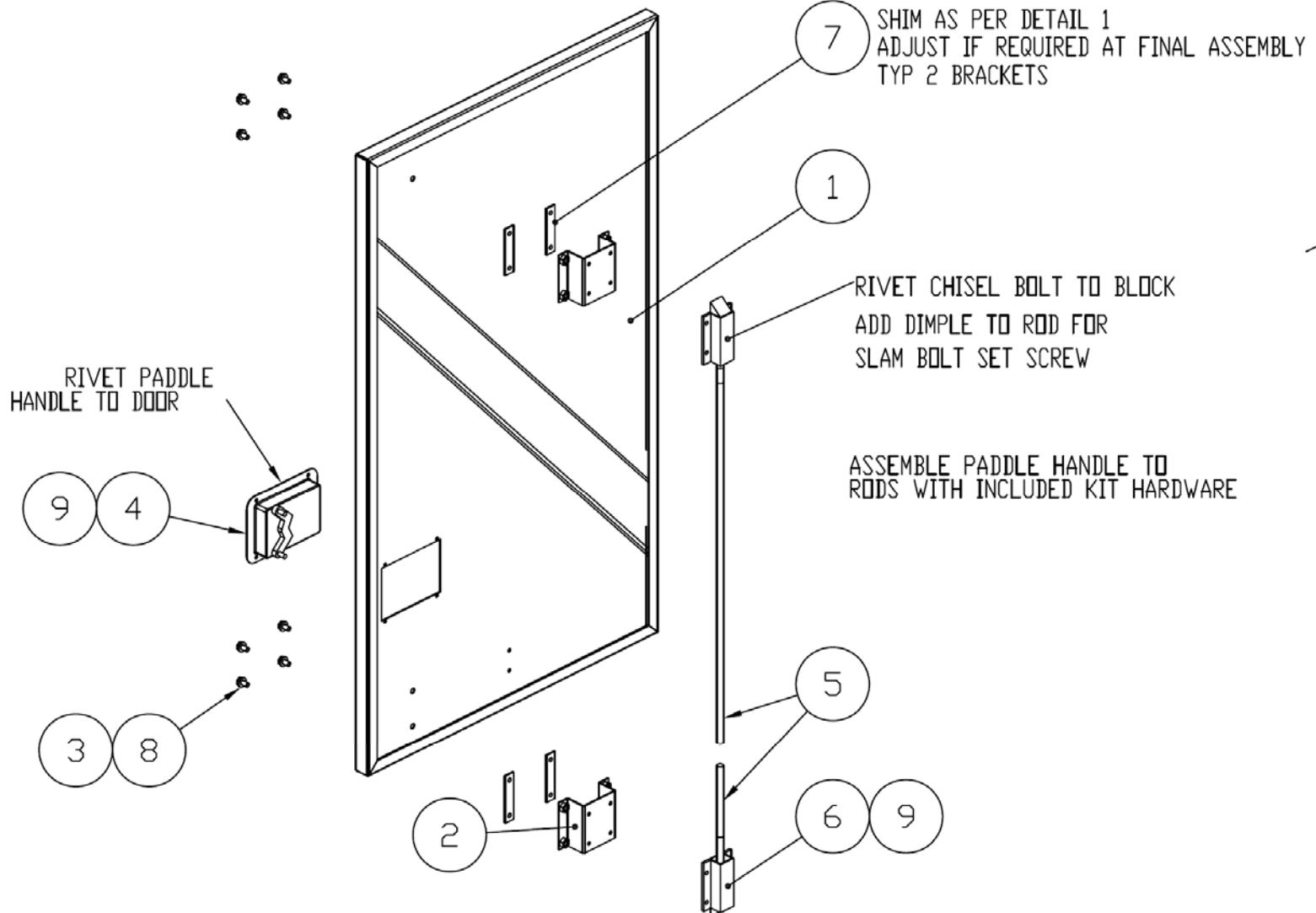
NOTES:





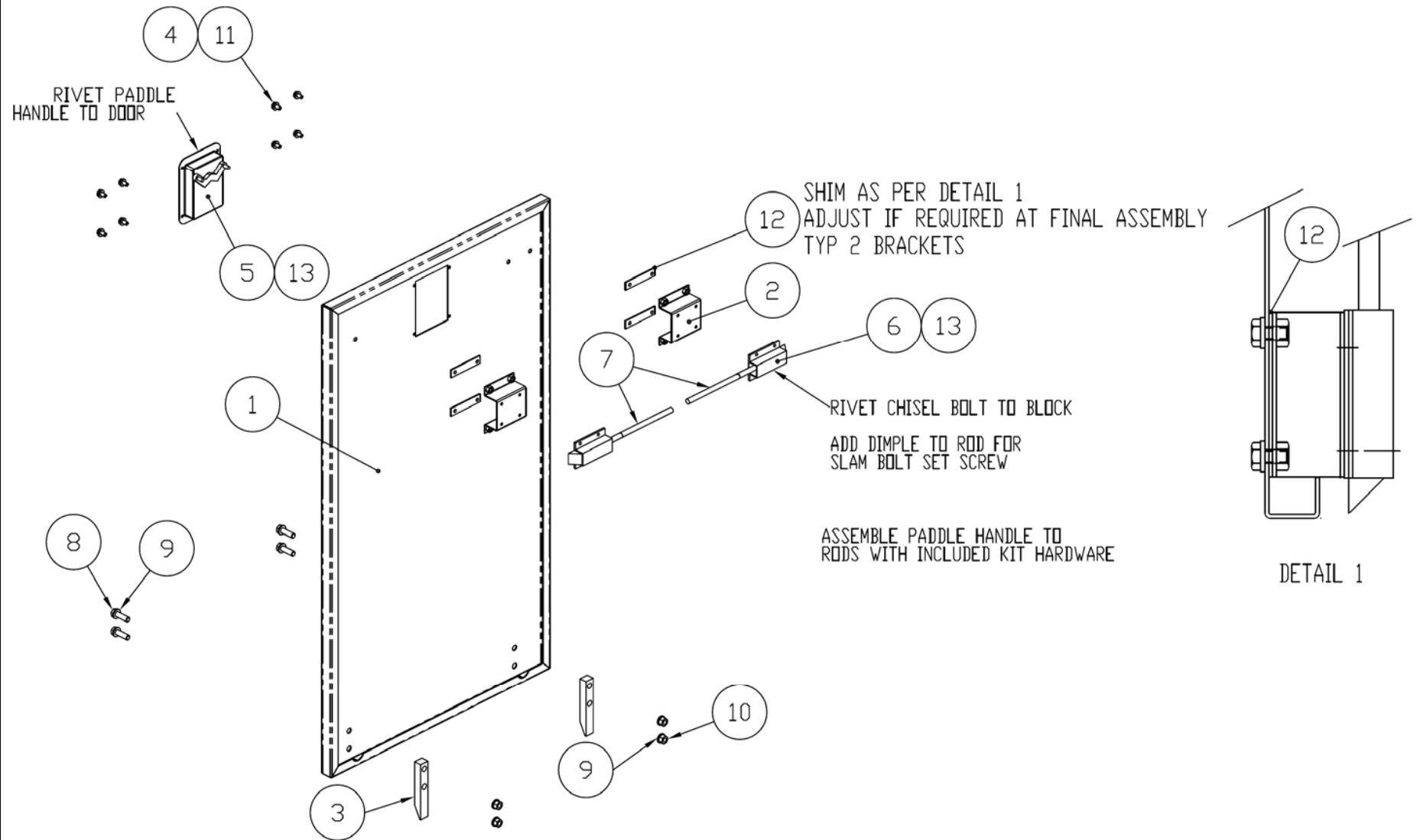
ITEM	QTY	PART NO	DESCRIPTION
1	2	006-04-003	HDWM - PLUNGER TYPE DOOR HOLDER
2	1	037-11-054	AS - ACCESS DOOR -LEFT- SUBASSEMBLY
3	1	037-11-091	AS - LADDER ROOF BRACE SUBASSEMBLY
4	3	037-11-096	PLT - TOP BRACE - DISCHARGE END

AS - GENSET ENCLOSURE - S2 ENG				037-11-252
ITEM	QTY	PART NO	DESCRIPTION	
5	1	037-11-117	AS - SERVICE PANEL SUBASSEMBLY	
6	8	037-11-122	AS - LATCH STRIKER PLATE ASSEMBLY	
7	4	037-11-123	MB - LATCH GUIDE AND DOOR STOPPER	
8	12	037-11-145	PLT - SHIM FOR CHISEL BOLT MTG PLATE	
9	1	037-11-254	AS - LADDER PANEL	
10	1	037-11-255	AS - BOTTOM RAIL STRUCTURAL	
11	1	037-11-275	AS - PANEL FRONT	
12	1	037-11-277	AS - CORNER MULLION INTAKE END-ACCESS SIDE	
13	1	037-11-278	AS - CORNER MULLION INTAKE END-SERVICE SIDE	
14	1	037-11-286	AS - ROOF BOLT-ON	
15	1	037-11-292	AS - PANEL SIDE BRACED INTAKE END	
16	1	037-11-297	AS - PANEL SERVICE ENG-FLYWHEEL	
17	1	037-11-299	AS - ACCESS DOOR - RIGHT-INTAKE	
18	2	037-11-301	AS - DOOR MULLION	
19	1	037-11-302	PLT - ROOF GUSSET - DISCHARGE END (LH)	
20	1	037-11-303	PLT - ROOF GUSSET - DISCHARGE END (RH)	
21	1	037-11-304	AS - RAD SEALING LIP	
22	1	037-11-311	AS - PANEL SIDE BRACED DISCHARGE END	
23	1	037-11-314	AS - PANEL SIDE SCOOP-DISCHARGE END	
24	93	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"	
25	4	CAT# 4M-5281	HDW - BOLT 1/4"-3/4	
26	4	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
27	93	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
28	8	MCC# 1183A12	HDW - ZINC PLATED ANGLE PADLOCK EYE	
29	28	MCC# 90101A225	HDW - LOCKNUT, JAM #10-32 SS NYLOCK	
30	1	MCC# 91772A542	HDW - PAN HEAD PHILLIPS MACHINE SCREW 1/4"-28 X 1	
31	24	MCC# 91772A831	HDW - PHMS #10-32-3/4" SS	
32	4	MCC# 91802A830	HDW - OVAL HEAD PHILLIPS MACHINE SCREW 10-32 X 5/8 SS	



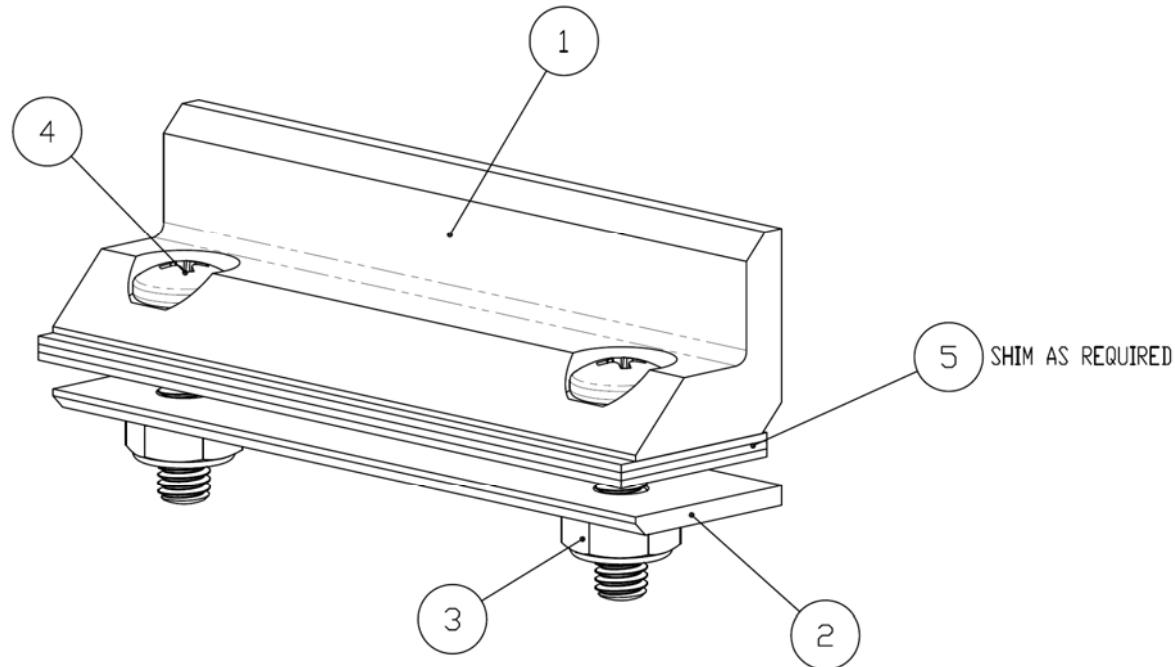
AS – ACCESS DOOR-LEFT - SUBASSEMBLY				037-11-054
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-11-102	AS – ACCESS DOOR – LEFT	
2	2	037-11-056	CHISEL BOLT MOUNTING BLOCK – SUBASSEMBLY	
3	8	CAT# 4M-5281	1/4-20 X 3/4 UNC HEX HEAD BOLT	
4	1	037-11-238	AS-LOCK ACCESS DOOR PANEL 2-POINT PADDLE HANDLE NON LOCKING - MODIFICATION	
5	2		PART OF #4 REF: (3/8" ROD – 2 ROD – 2 PARTS PER KIT)	
6	2		PART OF #4 REF: (SLAM BOLT – 2 PARTS PER KIT)	
7	*	037-11-145	SHIM FOR CHISEL BOLT MTG PLATE	
8	8	CAT# 8T-4205	1/4" HARDENED FLAT WASHER	
9	12	001-04-008	HDWM – RIVET 03/16"x0.45 ALUMINUM BUTTON HEAD	

\* SHOWN FOR PARTS ONLY, SHIM AS REQUIRED

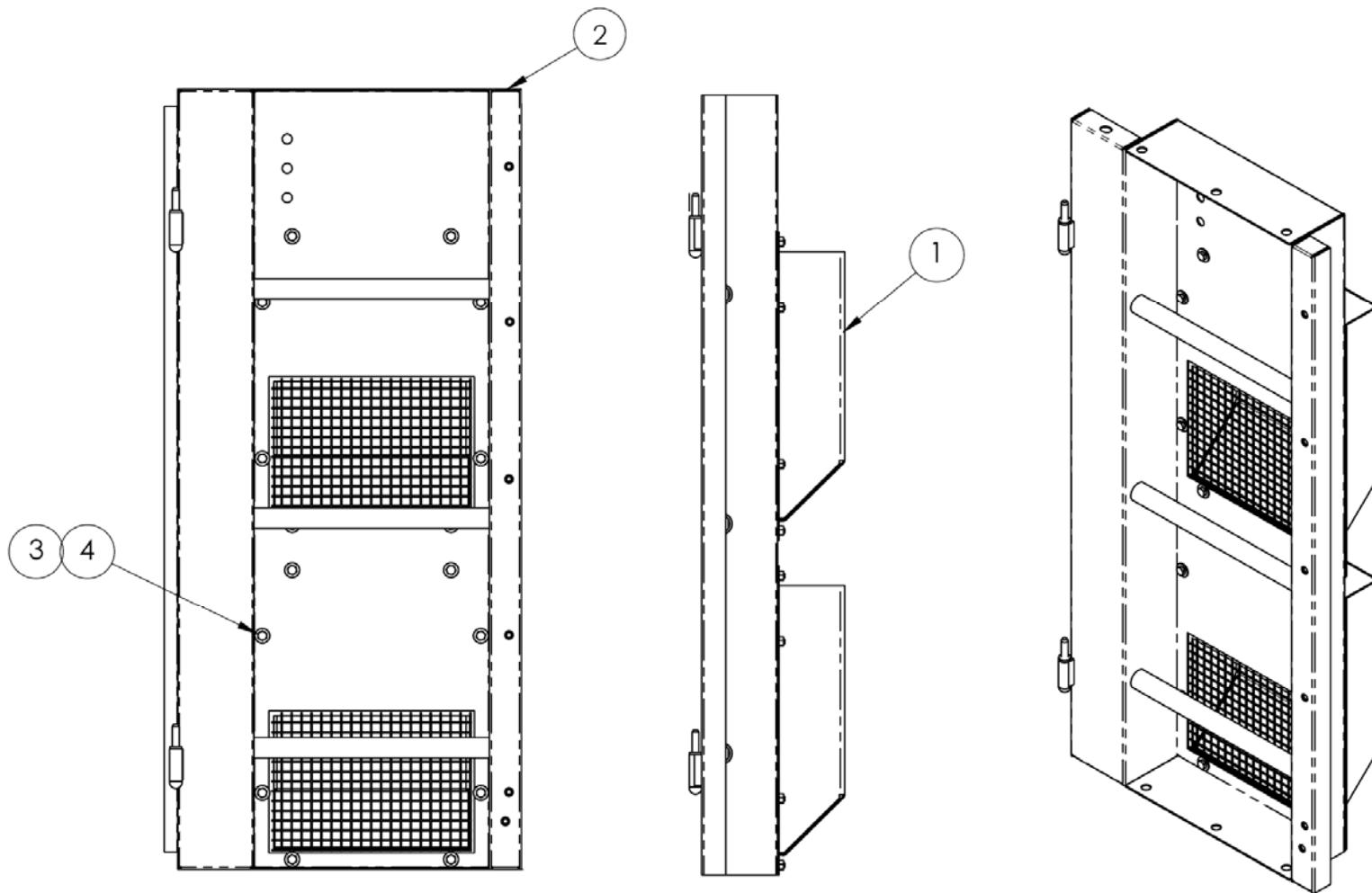


SERVICE PANEL SUBASSEMBLY				037-11-117
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-11-101	SERVICE PANEL	
2	2	037-11-056	CHISEL BOLT MOUNTING BLOCK- SUBASSEMBLY	
3	2	037-11-121	ACCESS DOOR BOTTOM DOG	
4	8	CAT# 4M-5281	1/4-20x1/2"UNC HEX HEAD BOLT	
5	1	037-11-237	AS - LOCK SERVICE PANEL 2-POINT PADDLE HANDLE NON LOCKING - MODIFICATION	
6	2		PART OF #5 - REF: (SLAM BOLT - 2 PARTS PER KIT)	
7	2		PART OF #5 - REF: (3/8" ROD - 2 PARTS PER KIT)	
8	4	CAT# 4L-9337	3/8-16x1-1/2UNC HEX HEAD BOLT	
9	8	CAT# 8T-4896	3/8" HARDENED FLAT WASHER	
10	4	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT	
11	8	CAT# 8T-4205	1/4" HARDENED FLAT WASHER	
12	*	037-11-145	SHIM FOR CHISEL BOLT MTG PLATE	
13	12	001-04-008	HDWM - RIVET Ø3/16"X0.45" ALUMINUM BUTTON HEAD	

\* SHOWN FOR PARTS ONLY, SHIM AS REQUIRED

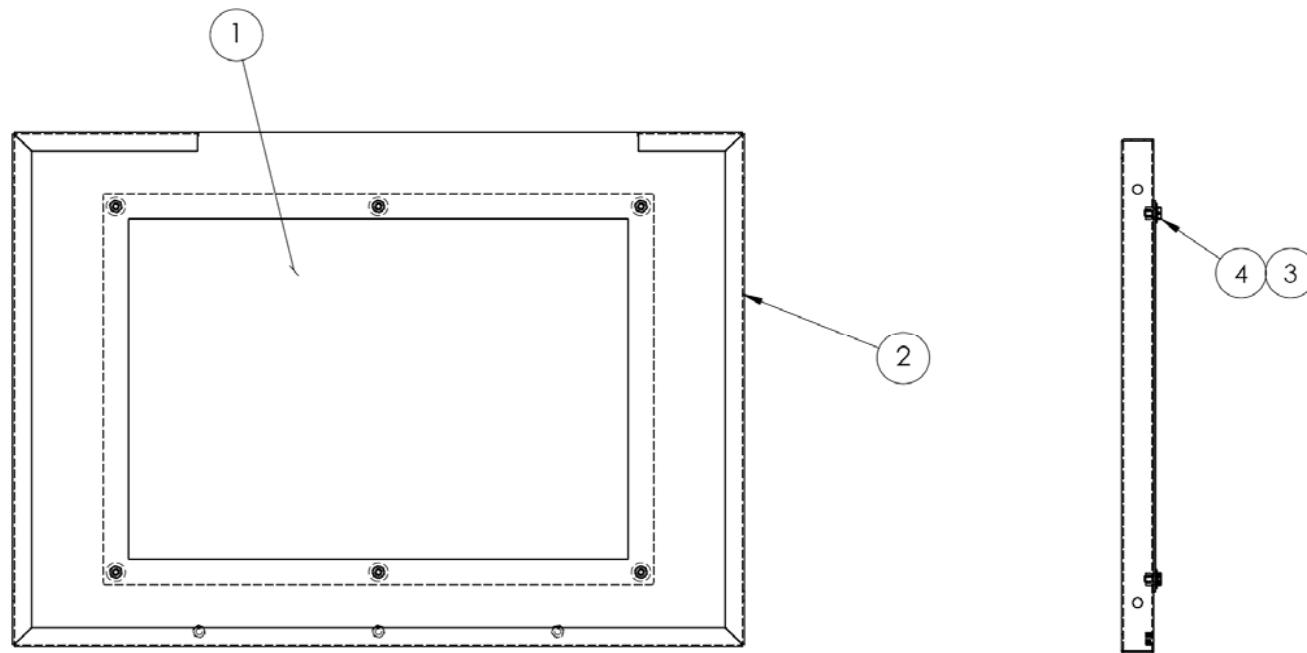


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-123	LATCH GUIDE AND DOOR STOPPER
2	1	037-11-124	INBOARD STRIKER PLATE
3	2	MCC# 90101A225	LOCKNUT, JAM #10-32 SS NYLOCK (QTY. 50)
4	2	MCC# 91772A831	PHMS #10-32-3/4" SS (QTY. 100)
5	3	037-11-145	PLT – SHIM FOR CHISEL BOLT MTG PLATE

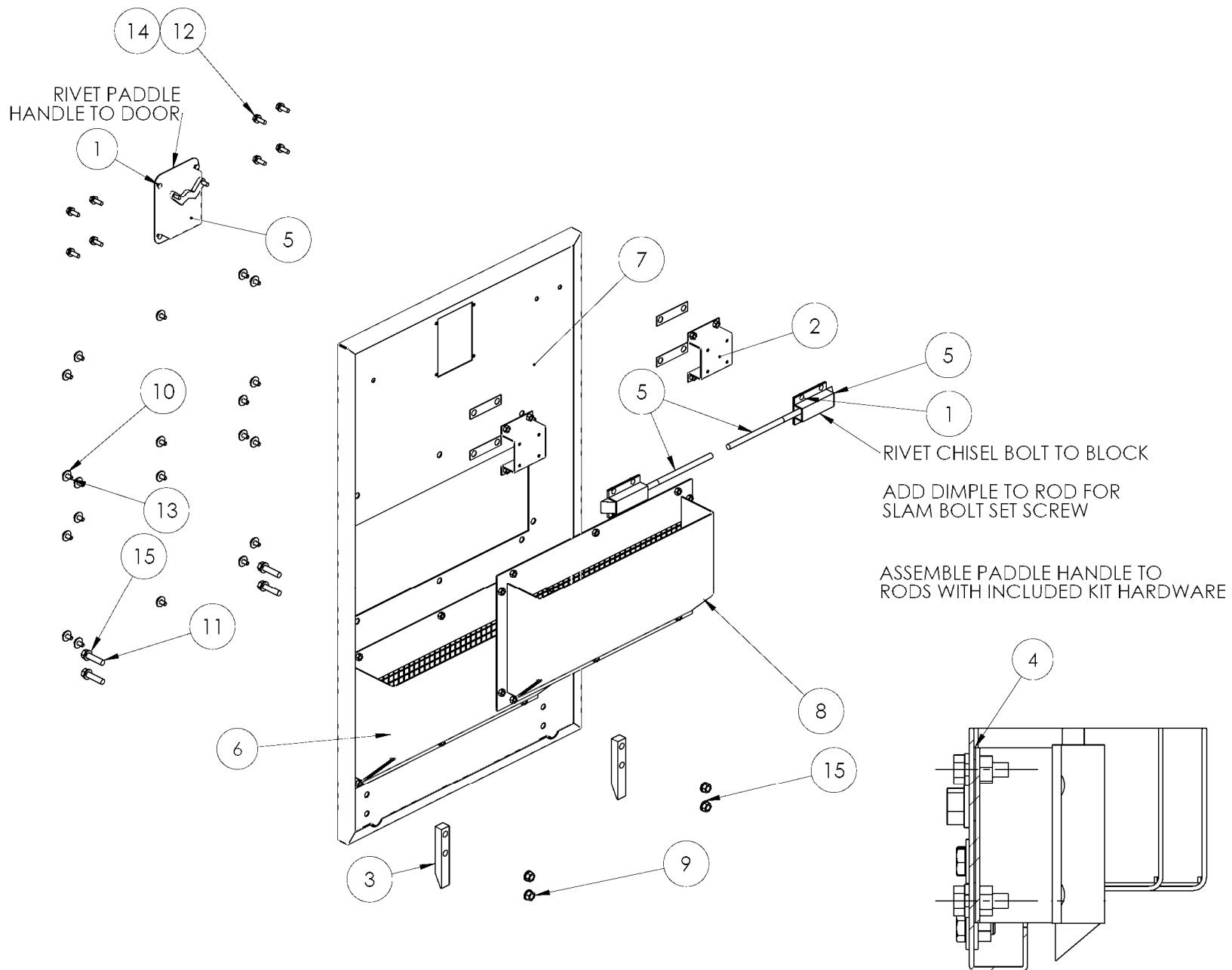


ITEM	QTY	PART NO	DESCRIPTION
1	2	037-11-326	AS - INTAKE DUCT LADDER
2	1	037-11-375	AS - LADDER SUBASSEMBLY
3	16	CAT# 4B-5269	HDW - USS WASHER 1/4"
4	16	CAT# 5S-7349	1/4-20x1 1/2"UNC HEX HEAD BOLT

NOTES:

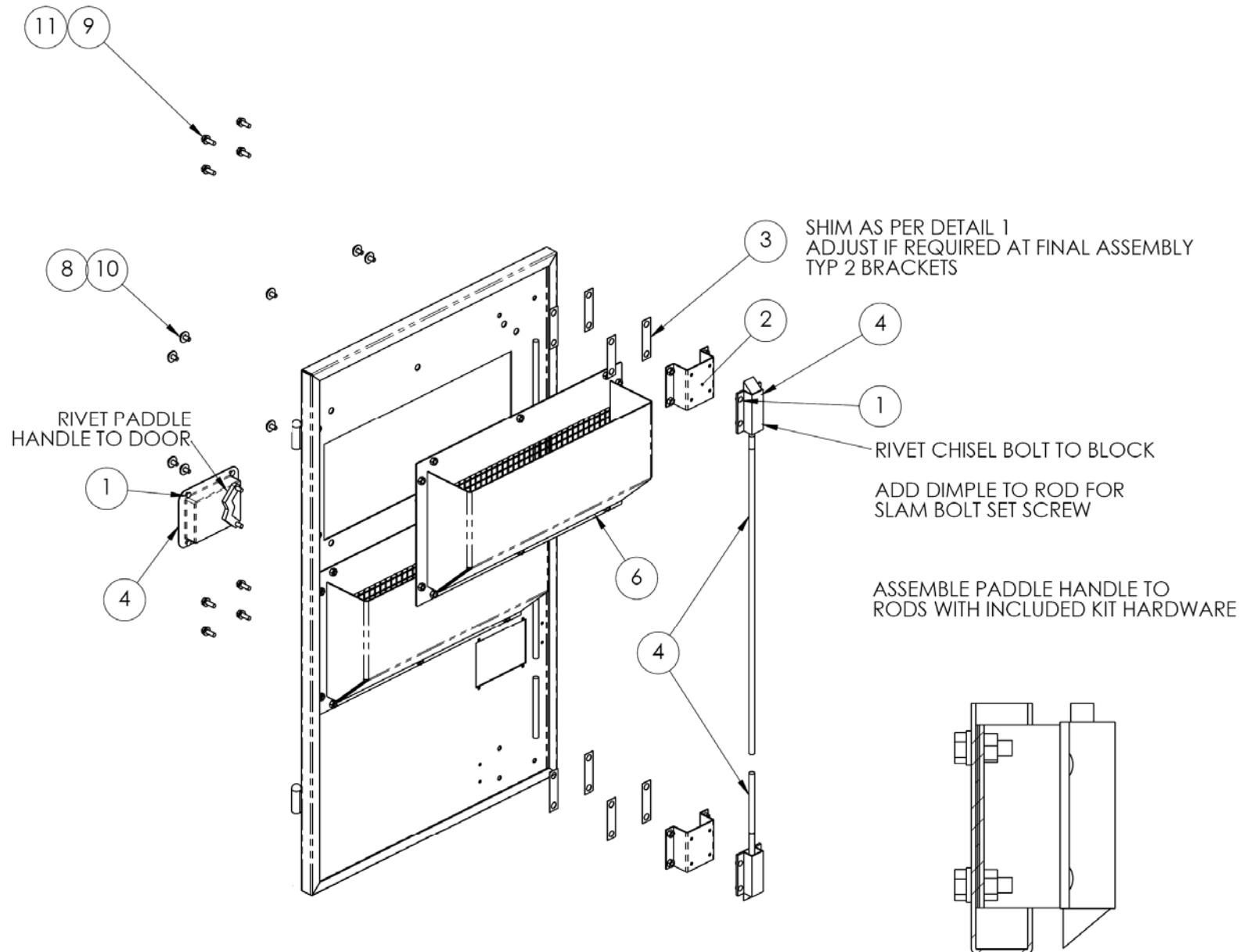


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-281	PLT - ACCESS PANEL ALTERNATOR
2	1	037-11-376	AS - PANEL FRONT SUBASSEMBLY
3	6	CAT# 4B-5269	HDW - USS WASHER 1/4"
4	6	CAT# 5S-7349	1/4-20x1 1/2"UNC HEX HEAD BOLT



AS - PANEL SERVICE ENG-FLYWHEEL				037-11-297
ITEM	QTY	PART NO	DESCRIPTION	
1	12	001-04-008	HDWM - RIVET Ø3/16"X0.45" ALUMINUM BUTTON HEAD	
2	2	037-11-056	AS - CHISEL BOLT MOUNTING BLOCK- SUBASSEMBLY	
3	2	037-11-121	PLT - ACCESS DOOR BOTTOM DOG	
4	*	037-11-145	PLT - SHIM FOR CHISEL BOLT MTG PLATE	
5	1	037-11-237	AS - LOCK SERVICE PANEL 2-POINT PADDLE HANDLE NON LOCKING - MODIFICATION	
6	1	037-11-328	AS - INTAKE DUCT DOOR	
7	1	037-11-330	AS - FORMED PANEL ACCESS-INTAKE	
8	1	037-11-380	AS - AIR DUCT	
8	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
9	20	CAT# 4B-5269	HDW - USS WASHER 1/4"	
10	4	CAT# 4L-9337	BOLT - 3/8-16 X 1.5 UNC HEX	
11	8	CAT# 4M-5281	HDW - BOLT 1/4"-3/4	
12	20	CAT# 5S-7349	1/4-20x1/2"UNC HEX HEAD BOLT	
13	8	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
14	8	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	

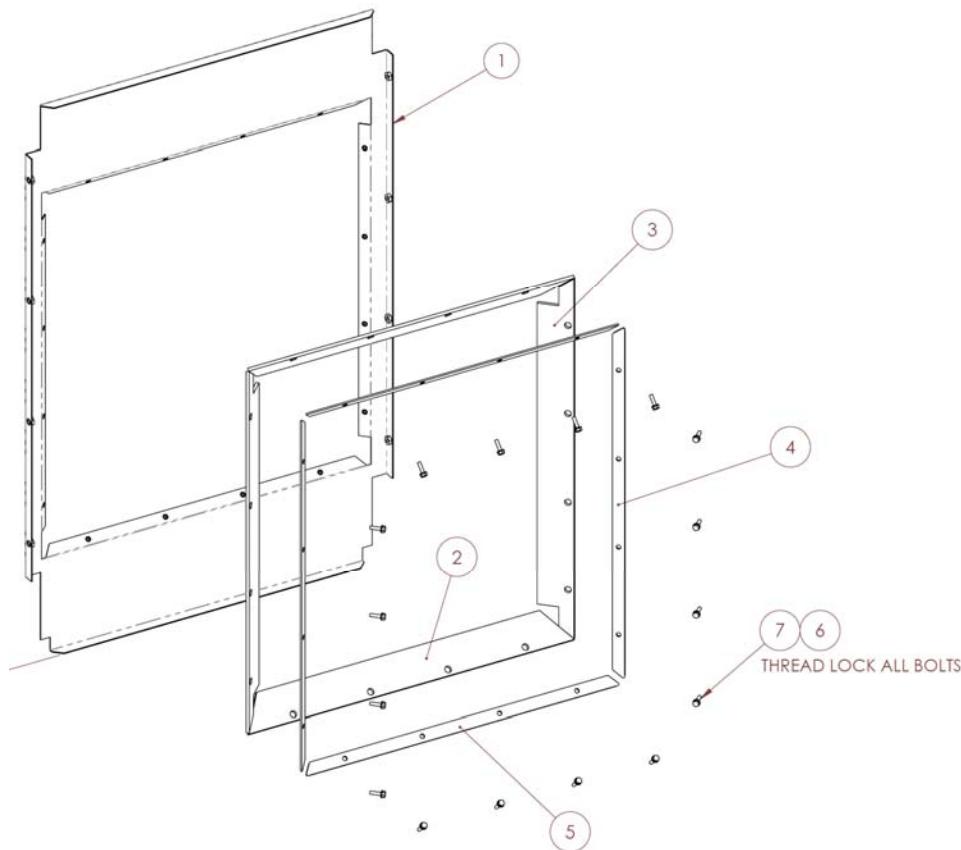
\* SHOWN FOR PARTS ONLY, SHIM AS REQUIRED



DETAIL 1

AS - ACCESS DOOR - RIGHT-INTAKE				037-11-299
ITEM	QTY	PART NO	DESCRIPTION	
1	12	001-04-008	HDWM - RIVET Ø3/16"X0.45" ALUMINUM BUTTON HEAD	
2	2	037-11-056	AS - CHISEL BOLT MOUNTING BLOCK- SUBASSEMBLY	
3	*	037-11-145	PLT - SHIM FOR CHISEL BOLT MTG PLATE	
4	1	037-11-238	AS - LOCK ACCESS DOOR 2-POINT PADDLE HANDLE NON LOCKING - MODIFICATION	
5	1	037-11-324	AS - INTAKE DUCT DOOR	
6	1	037-11-328	AS - INTAKE DUCT DOOR	
7	1	037-11-331	AS - ACCESS DOOR -RIGHT-INTAKE FORMED	
8	20	CAT# 4B-5269	HDW - USS WASHER 1/4"	
9	8	CAT# 4M-5281	HDW - BOLT 1/4"-3/4	
10	20	CAT# 5S-7349	1/4-20x1/2"UNC HEX HEAD BOLT	
11	8	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	

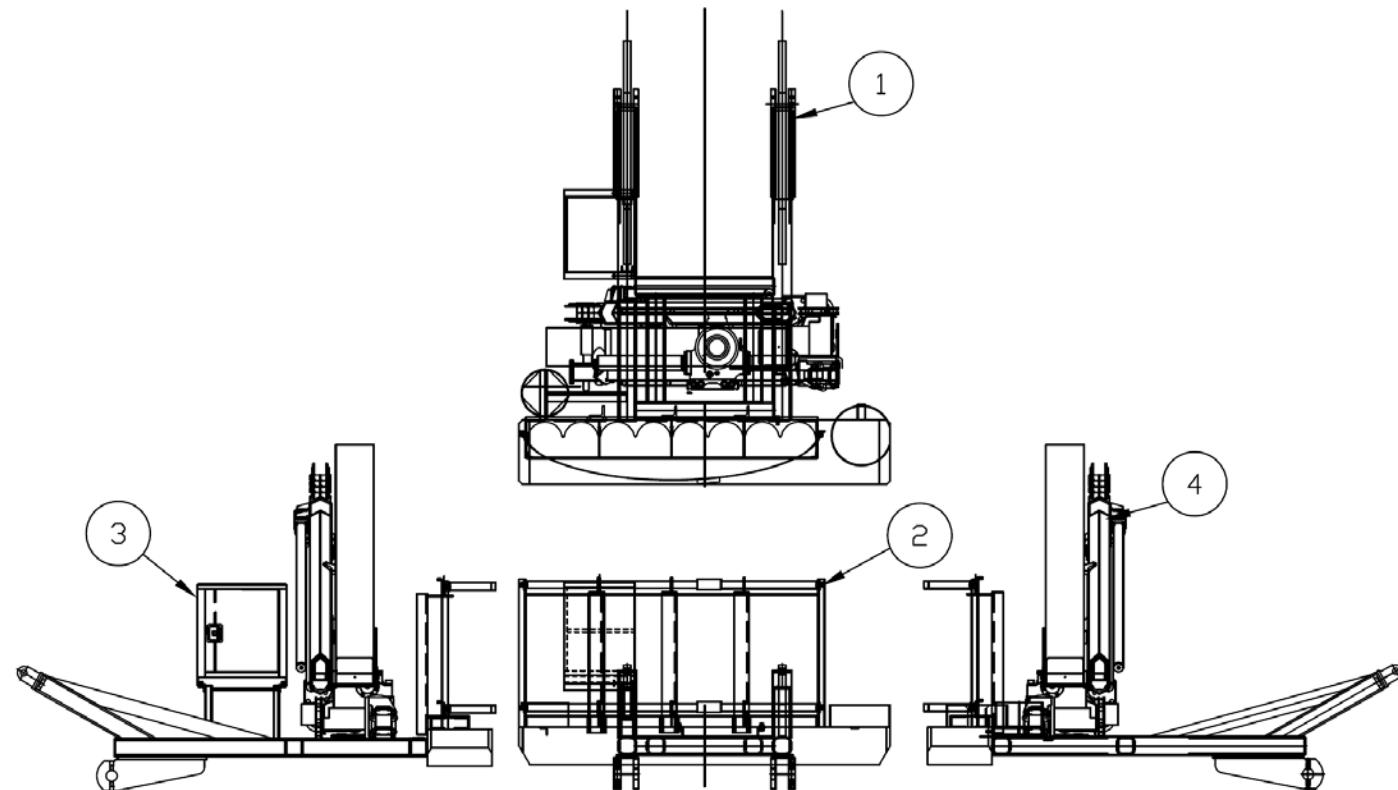
\* SHOWN FOR PARTS ONLY, SHIM AS REQUIRED



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-305	AS - RADIATOR SEALING LIP PLATE
2	2	037-11-306	HDWM - RADIATOR SEALING GASKET -TOP AND BOTTOM
3	2	037-11-307	HDWM - RADIATOR SEALING GASKET - SIDES
4	2	037-11-308	PLT - RADIATOR GASKET RETAINER - SIDES
5	2	037-11-309	PLT - RADIATOR GASKET RETAINER - TOP/BOTTOM
6	16	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD
7	16	CAT# 8T-8908	HDW - BOLT 1/4-20 x 1"

<b>OPT – FRONT PLATFORM MODULE</b>				037-15-001
ITEM	QTY	PART NO	DESCRIPTION	
1	*	037-15-020	AS - FRONT PLATFORM, D6M/N	
2	*	037-15-030	AS – C-FRAME CTWT D6M/N LGP	
3	*	046-35-001	GP – FR CTWT & BOTTLE RACK – VP 72R, VP 72T, 72H – TYPE 2	
4	*	043-35-001	GP – FR CTWT & BOTTLE RACK VP 71N	

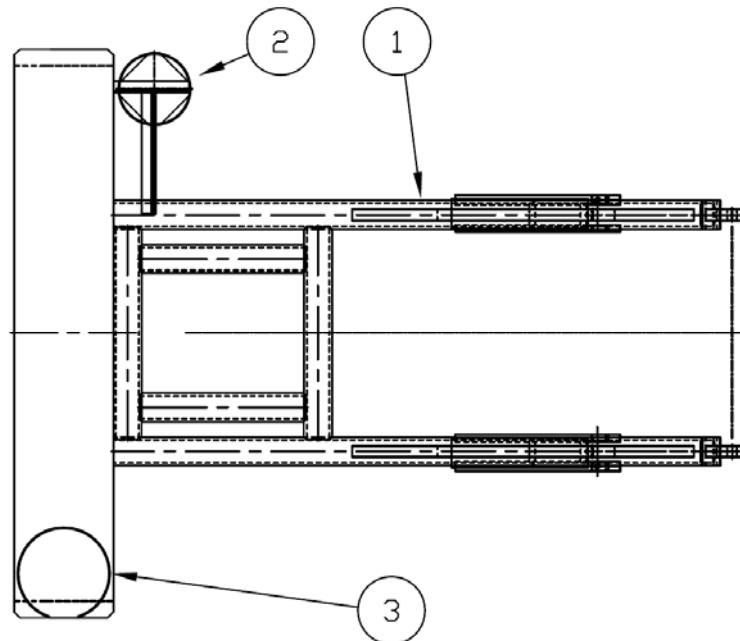
\* SELECT ONE ITEM AS REQUIRED



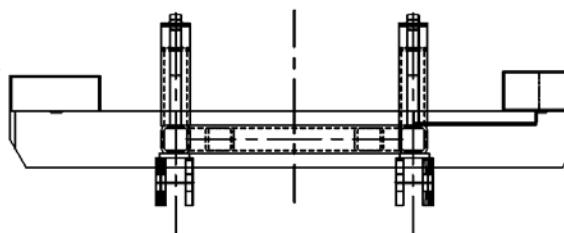
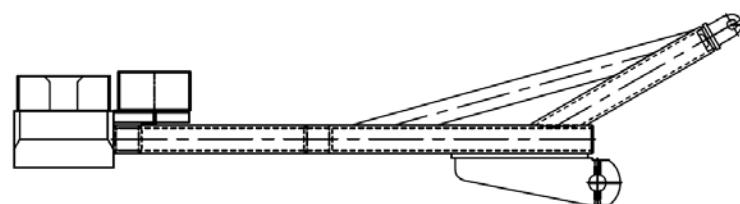
NOTE: OPTIONAL EQUIPMENT SHOWN

ITEM	QTY	PART NO	DESCRIPTION
1	*1	037-15-024	AS - FRONT FR CRANE MOUNT, D6M/N HIAB
2	*1	037-35-011	AS - BOTTLE RACK, CAPACITY 8
3	*1	037-35-047	AS - TOOLBOX
4	*1	037-60-004	AS - CRANE INSTALLATION

\* SELECT DESIRED OPTIONS AS REQUIRED



MAXIMUM LIFTING MOMENT  
74 KN-m (54,580 lb-ft)

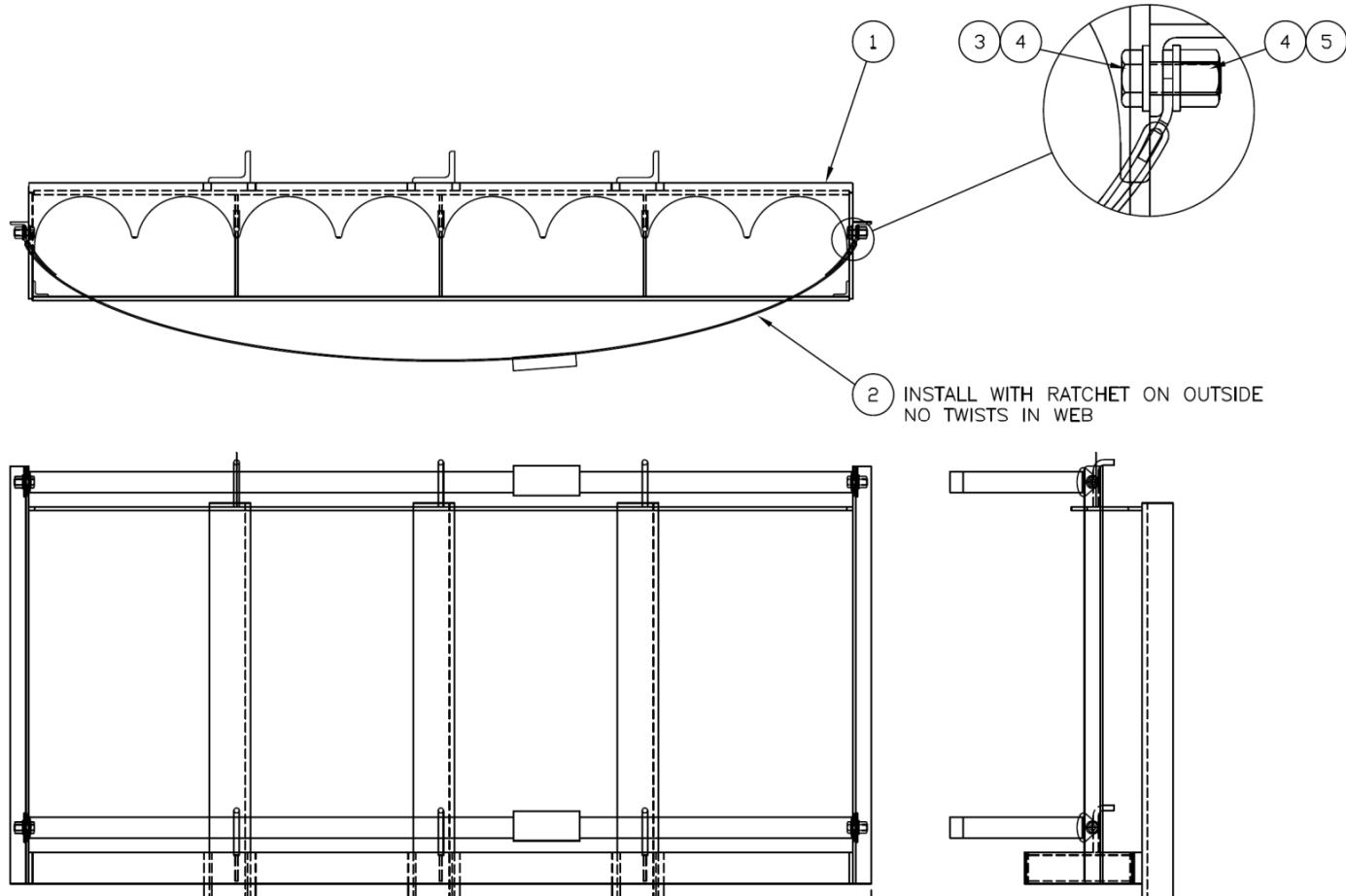


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-15-023	AS - FRONT FR CRANE MOUNT
2	1	037-35-035	AS - BOTTLE RACK PROPANE
3	1	037-35-033	AS - WATER BOTTLE SUPPORT

AS - BOTTLE RACK, 8X

037-35-011

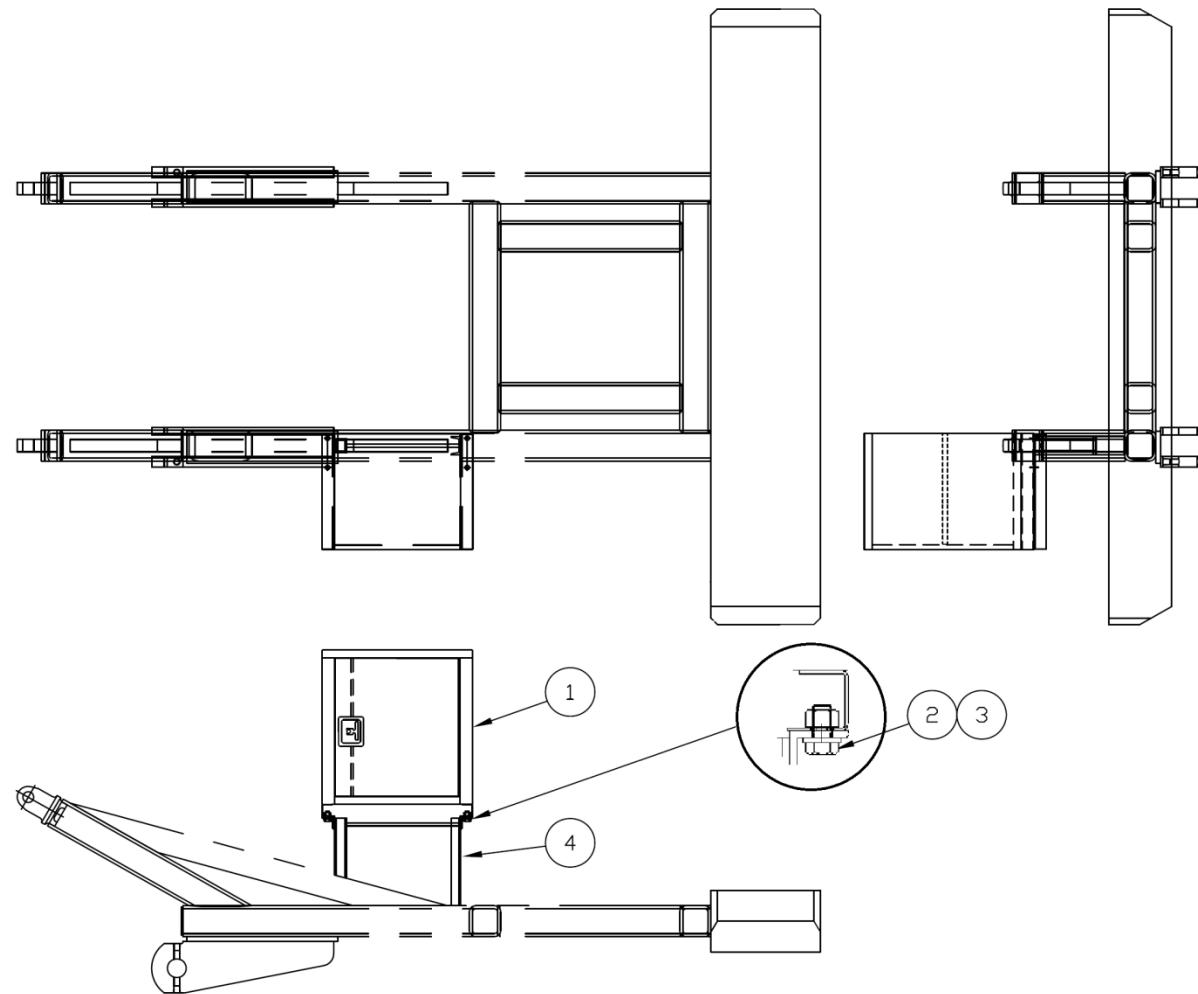
NOTE: BOLT INSERTED FROM INSIDE FACE  
NUT ATTACHED ON OUTSIDE OF FRAME.



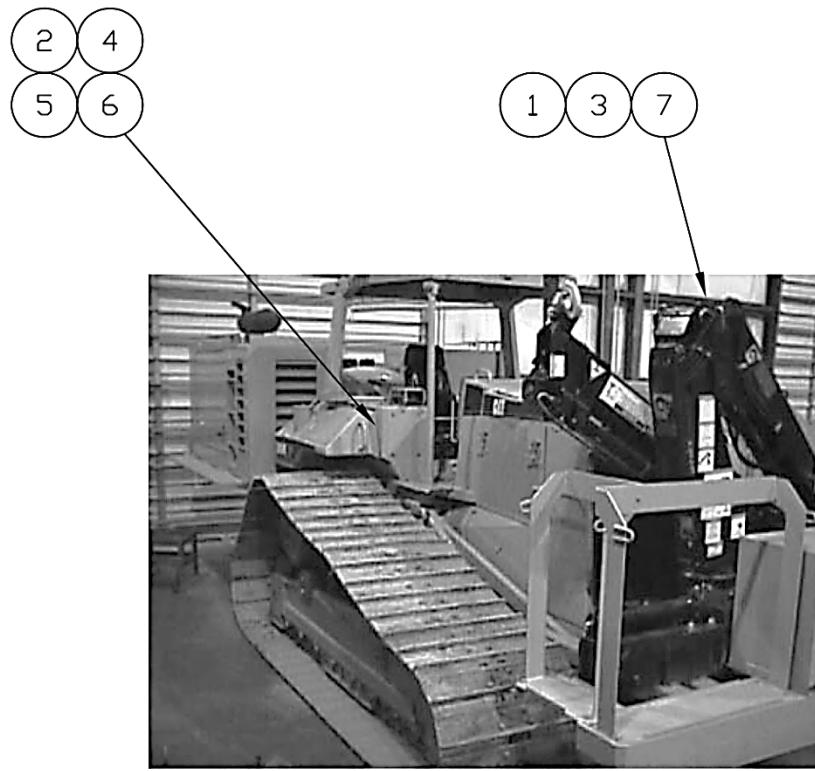
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-35-048	AS - BOTTLE RACK 8X
2	2	MCC# 8834T36	16-FT WEB AS 2-IN NYLON RATCHET BUCKLE BOLT PLT
3	4	CAT# 8T-9393	HEX HD BOLT, 5/8-11NC X 1 1/2 LNG
4	8	CAT# 8T-4122	WASHER, FLAT HARD 5/8 IN
5	4	CAT# 3K-2889	HEX NUT SELF LOCK 5/8-11NC
6	1	037-35-034	BOTTLE RACK 8X INSTALLATION

## GP – TOOLBOX, FRONT FRAME MOUNT

037-35-047



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-021	AS - TOOLBOX
2	4	CAT# 7X-0343	BOLT HEX HD 5/8-11NC X 1 1/4 IN
3	4	CAT# 8T-4122	WASHER FLAT HARD 5/8 IN
4	1	037-35-036	AS - TOOLBOX RAILS



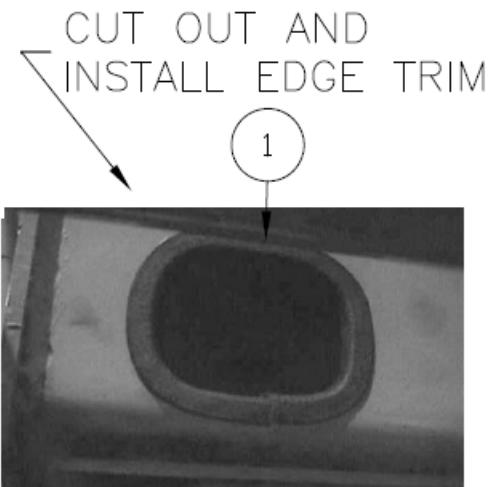
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-60-021	AS – HIAB CRANE
2	1	037-71-029	AS - HIAB CRANE MODS D6M/N FRONT HOSE CUTOUT
3	1	037-60-012	AS - CRANE TIE-DOWN
4	1	037-60-011	AS - CRANE CONT INSTALLATION
5	1	037-43-008	AS - FITTINGS CRANE CONT INSTALLATION
6	1	037-42-020	AS - WELDER HIAB CRANE HOSE KIT (CHART)
7	1	037-15-025	AS - CRANE LOCATOR STOPS

FRONT MOUNT 037-15-024 IS REQUIRED

NOT FOR USE WITH 037-15-030

AS- HIAB CRANE MODS FRONT HOSE CUTOUT

037-71-029



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-278	HDWM – EDGING BLACK – 23”

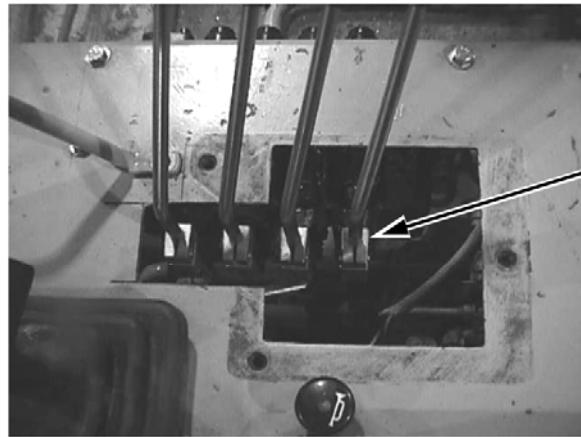
NOTE: FOLLOW CRANE MANUFACTURER'S  
INSTALLATION PROCEDURES INCLUDING  
REQUIRED GRIP LENGTHS AND TORQUES



AS – CRANE CONTROL TIE-DOWN FRONT CRANE INSTALLATION D6M/N				037-60-012
ITEM	QTY	PART NO	DESCRIPTION	
1	4*		TIE DOWN BOLT, FLOATING SIDE, 7/8NC	
2	4*		TIE DOWN BOLT, RIGID SIDE, 7/8NC	
3	16*		NUT, HEX HD, 7/8NC	
4	4	037-60-006	PLT - CLAMP FRONT CRANE INSTALLATION	
5	4	037-60-009	SHIM PLATE	
6	8*		WASHER, GRIPPER	
7	8*		WASHER, SQUARE	
8	8*		WASHER, RD	

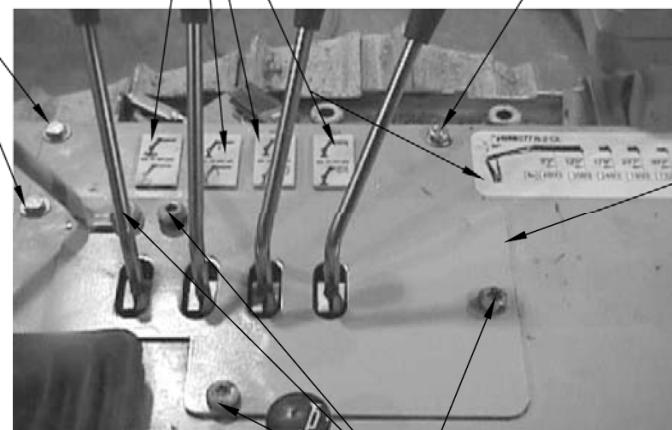
\* SUPPLIED WITH CRANE

NOTES:



VALVE ASSEMBLY, HIAB V80  
(PART HIAB 077-12XCB) REF

3 4 5 6



RELOCATE DECALS FROM  
CRANE CONTROL LOCATION

2 4 6 6

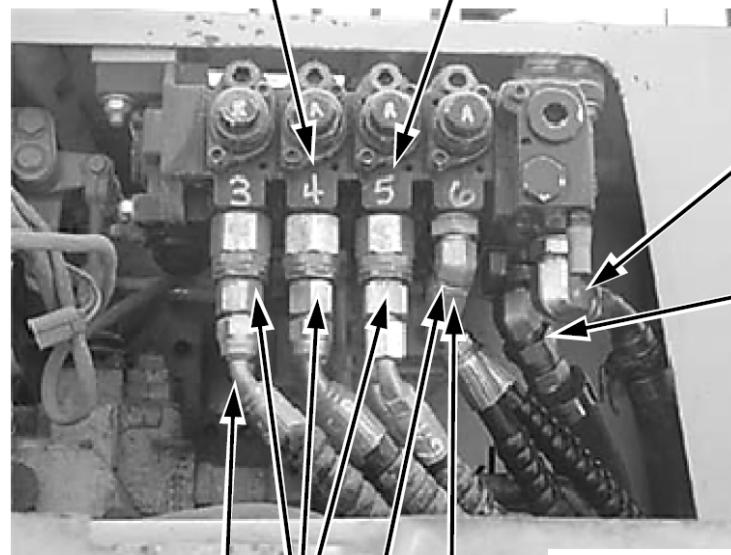
1

EXISTING HARDWARE

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-60-008	COVER PLATE
2	1	037-60-010	MTG BLOCK SQ CRANE CONTROL VALVE
3	1	037-60-007	MTG BLOCK LG CRANE CONTROL VALVE
4	6	CAT# 8T-4896	WASHER - 3/8 FLAT HARD
5	3	CAT# 8T-9101	BOLT, HEX HD 3/8-16 NC X 2 3/4 IN
6	3	CAT# 2K-4973	NUT - SELF-LOCKING 3/8-16UNC, HARD

2ND BOOM (UPPER)  
037-42-021-6 [B-END]  
OUTER PORT "B" DOWN  
037-42-021-5 [B END]  
INNER PORT "A" UP

1ST BOOM (LOWER)  
037-42-021-4 [B-END]  
OUTER PORT "B" DOWN  
037-42-021-3 [B END]  
INNER PORT "A" UP



037-60-63-013A

037-42-022 [B-END]  
037-42-023 [B-END] OUTER  
PORT "B" EXTEND  
INNER PORT "A" RETRACT  
(NEED TO VERIFY  
HOSE/PORT CONNECTION)

7 OUTER  
"B" PORT

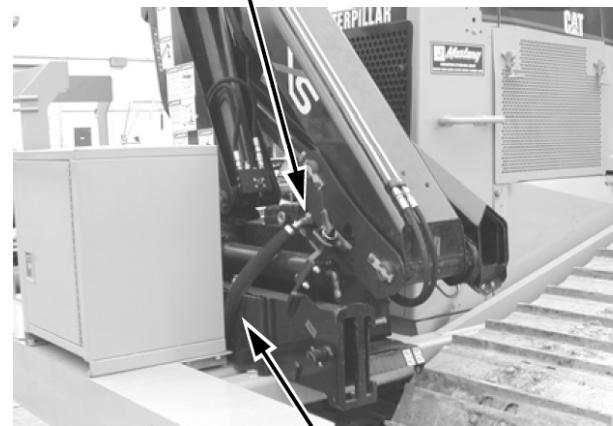
037-42-021-2  
[B END]  
OUTER

6 INNER "A"  
PORT  
  
SLEW/TURN  
037-42-024 [BEND]  
INNER PORT "A"  
COUNTERCLOCK-  
WISE

1 037-42-015 [B END]  
OUTER "P2" PORT

2 037-42-024 [A END]  
INNER "T2" PORT

3 037-42-024 [B END] @  
TANK RETURN FILTER



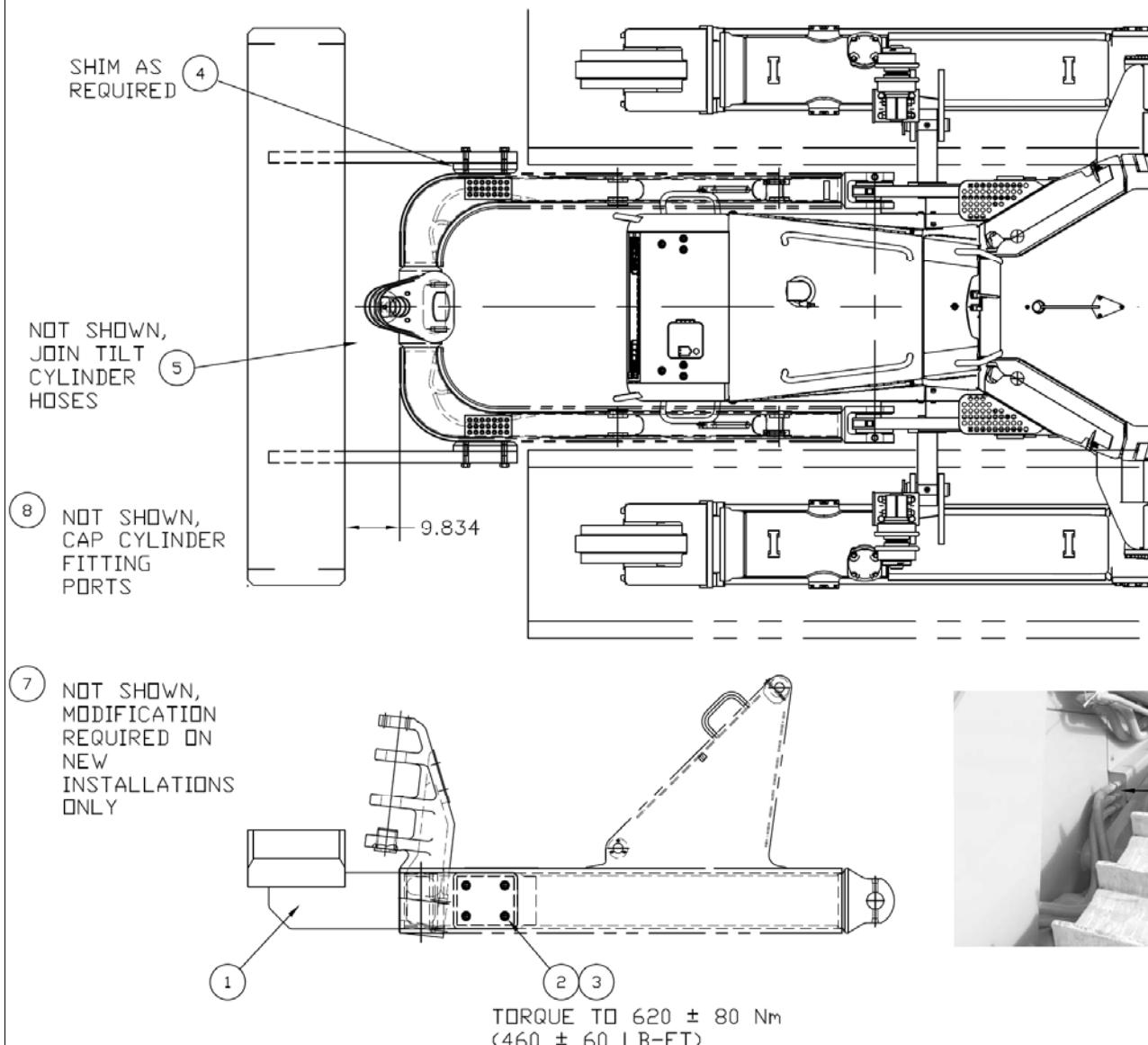
037-15-60-017

037-42-014 [B END]  
@ TANK SUCTION

AS – FITTINGS CRANE CONTROL INSTALLATION D6M/N				037-43-008
ITEM	QTY	PART NO	DESCRIPTION	
1	1	PARK# 12-8C4OMXS	90° ELBOW BSPP M-8 / JIC M-12	
2	1	PARK# 12V4OMX	45° ELBOW BSPP M-12 / JIC M-12	
3	1	PARK# 12C4OMX	90° ELBOW BSPP M-12 / JIC M-12	
4	6	PARK# 8HTXS	UNION JIC M-8	
5	1	PARK# 88DB-24	TANK SUCTION HOSE CLAMP	
6	1	PARK# 8-8F4OMXS	ST BSP MALE / JIC 1/2" / -8	
7	1	PARK# 8-8V4OMXS	45 DEG EL BSP MALE / JIC 1/2" / -8	

NOTES:

AS - WELDER HIAB CRANE HOSE CHART												037-42-020		
			A HOSE END			B HOSE END			HOSE					
ITEM	HOSE NO.	SIZE	PARKER NO.	CAT NO.	SIZE	PARKER NO.	CAT NO.	SIZE	CAT NO.	PARKER NO.	O.A.L. (IN)	SLEEVE	NOTES	
1	037-42-021-1	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
2	037-42-021-2	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
3	037-42-021-3	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
4	037-42-021-4	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
5	037-42-021-5	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
6	037-42-021-6	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	144	1602245	JUMPER EXISTING HOSES	
7	037-42-022	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	210	1602245	JUMPER EXISTING HOSES	
8	037-42-023	-8	10643-8-6	1241969	-8	13743-8-6	1241986	-6	1650016	381-6	220	1602245	JUMPER EXISTING HOSES	
9	037-42-024	-12	10643-12-12	2P-0987	-12	13743-12-12	2P-1458	-12	1226872	881-12	210	717439	N/A	



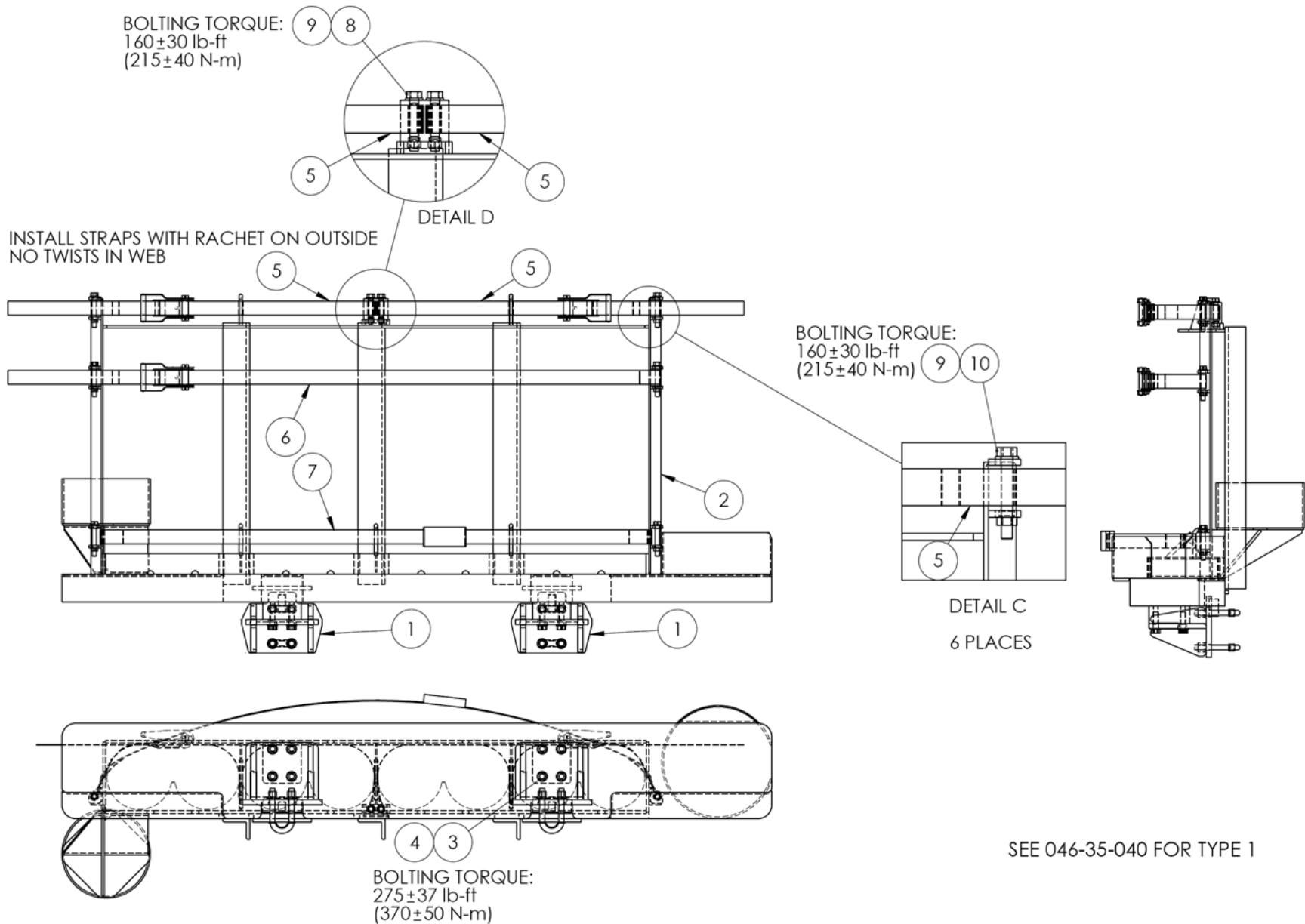
## NOTES:

- 1) REMOVE TILT CYLINDER WITH DOZER FROM C-FRAME, AND PLUG TILT CYLINDER FITTINGS.
- 2) JOIN TILT HOSES TOGETHER USING ITM 5.
- 3) FULLY RETRACT BOTH ANGLE CYLINDERS AND FIRMLY SECURE TO C-FRAME.
- 4) INSTALL BLANK-OFF FITTINGS (ITM 6) ONTO ALL DOZER CYLINDER HOSES--TOTAL OF SIX (6) HOSES (4X ANGLE, 2X TILT)--AT LEFT AND RIGHT TRACTOR BULKHEADS.
- 5) CORRECT ANY HYDRAULIC LEAKS AS REQUIRED

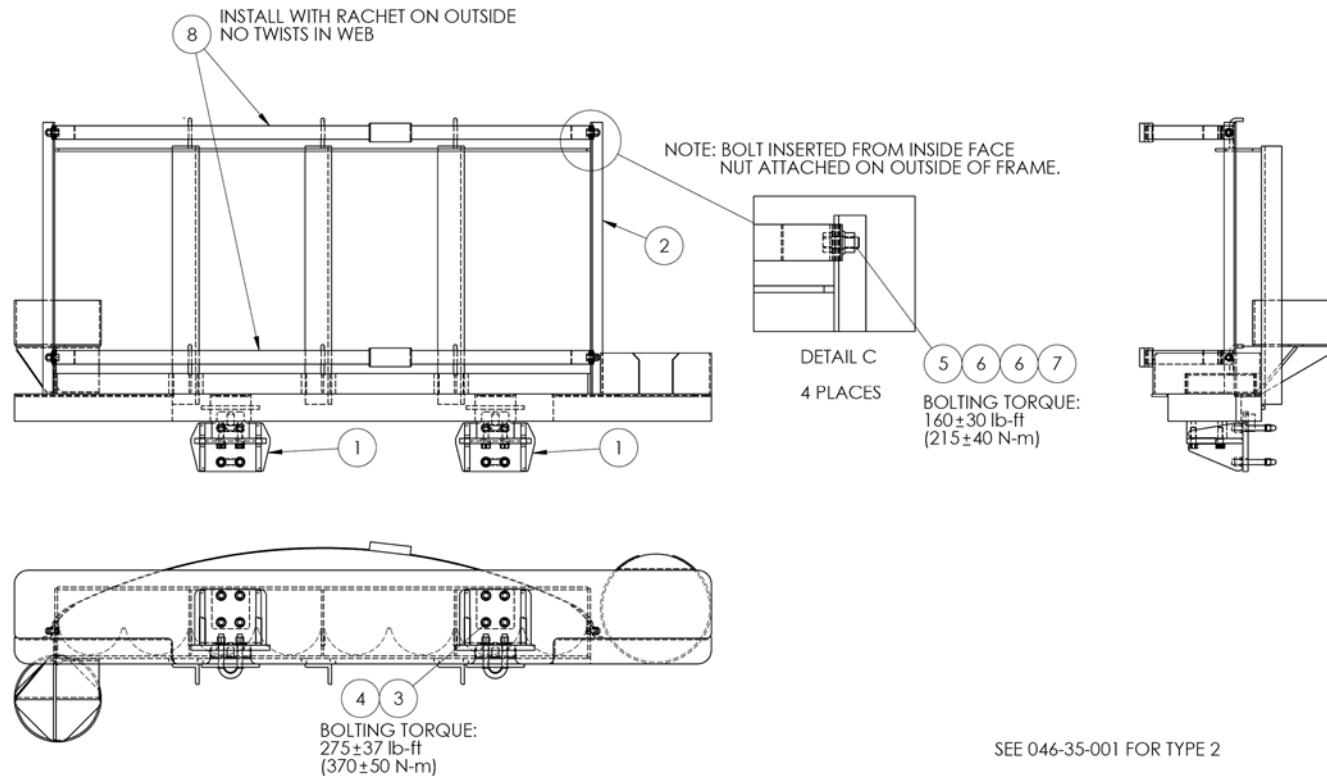
6

INSTALL AT EACH DOZER  
HOSE TRACTOR  
BULKHEAD FITTING  
(TYP)

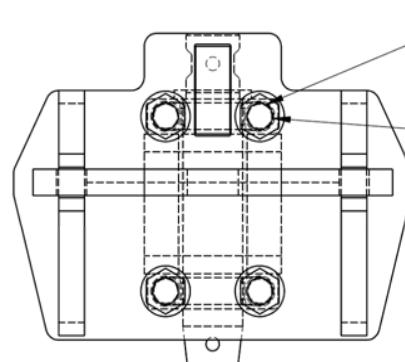
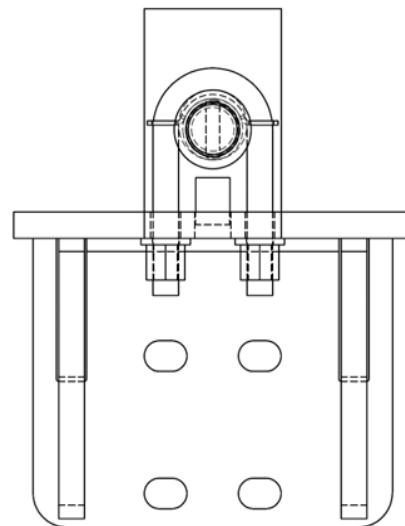
AS – C-FRAME CTWT D6M/N LGP				037-15-030
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-15-032	AS – C-FRAME CTWT D6M/N LGP	
2	8	CAT# 7X-0386	7/8-9UNC X 3-1/2 LNG PLATED	
3	8	CAT# 8C-6913	WASHER – 7/8 HARD PLATED	
4	4	037-15-034	PLT – C-FRAME CTWT SHIM	
5	1	PARK# 8HLO-S	ST ORFS F/ORFS F ADAPTER -8	
6	6	PARK# 8LOHL6-S SOLID	SOLID IN-LINE ORIFICE CONN ORFS SW F/M -8	
7	1	037-71-042	MOD – C-FRAME CTWT ATTACHMENT D6M/N LGP	
8	2	PARK# 8FNL-S	CAP ORFS -8	



GP – FR CTWT & BOTTLE RACK, VP 72 R/T, 72H – TYPE 2				046-35-001
ITEM	QTY	PART NO	DESCRIPTION	
1	2	046-35-002	AS – MOUNT – CTWT & BOTTLE RACK – VP72R, VP72T, 72H	
2	1	046-35-009	AS – FRONT CTWT, BOTTLE RACK, PROPANE BOTTLE RACK – 72H – TYPE 2	
3	8	CAT# 8T-8924	HDW – BOLT – ¾-10 UNC X 2.5 HEX	
4	8	CAT# 8T-4994	WASHER ¾ INCH – HARDENED	
5	2	006-04-009	HDWM – 14 IN STRAP W/RACHET BUCKLE & 72-IN STRAP – 2-IN WIDE NYLON STRAP	
6	1	006-04-010	HDWM – 14 IN STRAP W/RACHET BUCKLE & 90-IN STRAP – 2-IN WIDE NYLON STRAP	
7	1	006-04-011	HDWM – 42 IN STRAP W/RACHET BUCKLE & 97-IN STRAP – 2-IN WIDE NYLON STRAP	
8	2	037-35-114	BOLT – MOD – BOTTLE RACK – MIDDLE ANCHOR	
9	8	CAT# 8T-4122	HDW – WASHER 5/8	
10	6	CAT# 7X-0354	HDW – BOLT – 5/8-11 UNC X 4.5 HEX	



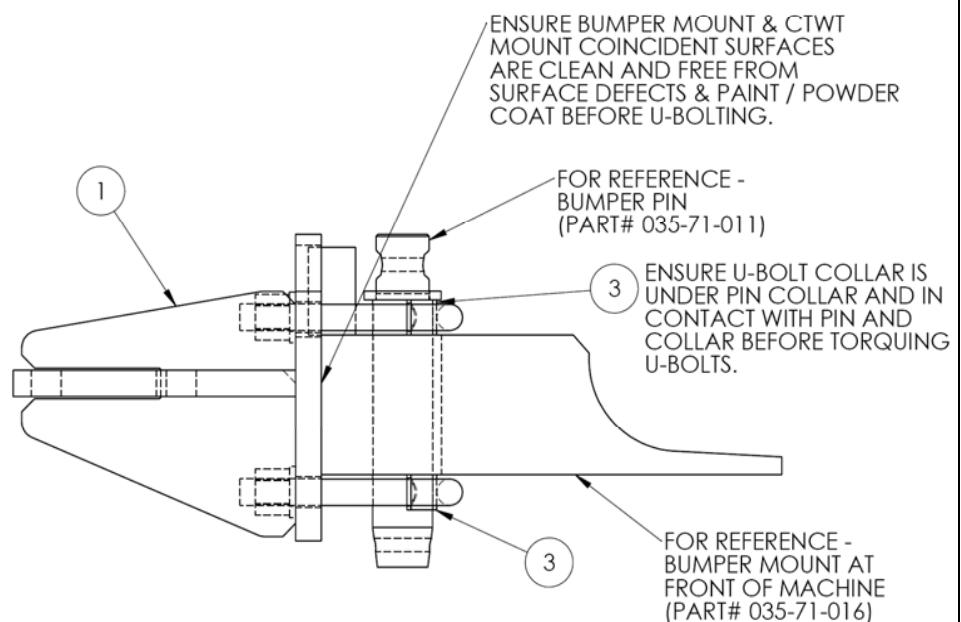
ITEM	QTY	PART NO	DESCRIPTION
1	2	046-35-002	AS – MOUNT – CTWT & BOTTLE RACK – VP72R, VP72T, 72H
2	8	CAT# 8T-8924	HDW – BOLT – ¾-10 UNC X 2.5 HEX
3	8	CAT# 8T-4994	WASHER ¾ INCH – HARDENED
4	4	CAT# 8T-9393	BOLT – 5/8-11 X 1.5 UNC HEX
5	8	CAT# 8T-4122	HDW – WASHER 5/8
6	4	CAT# 3K-2889	HDW – LOCKNUT – 5/8-11 THD
7	2	MCC# 8834T36	HDWM – 16 FT WEB AS 2-IN NYLON RATCHET BUCKLE BOLT PLT
8	1	046-35-041	AS – FRONT CTWT, BOTTLE RACK, PROPANE BOTTLE RACK – 72H – TYPE 1



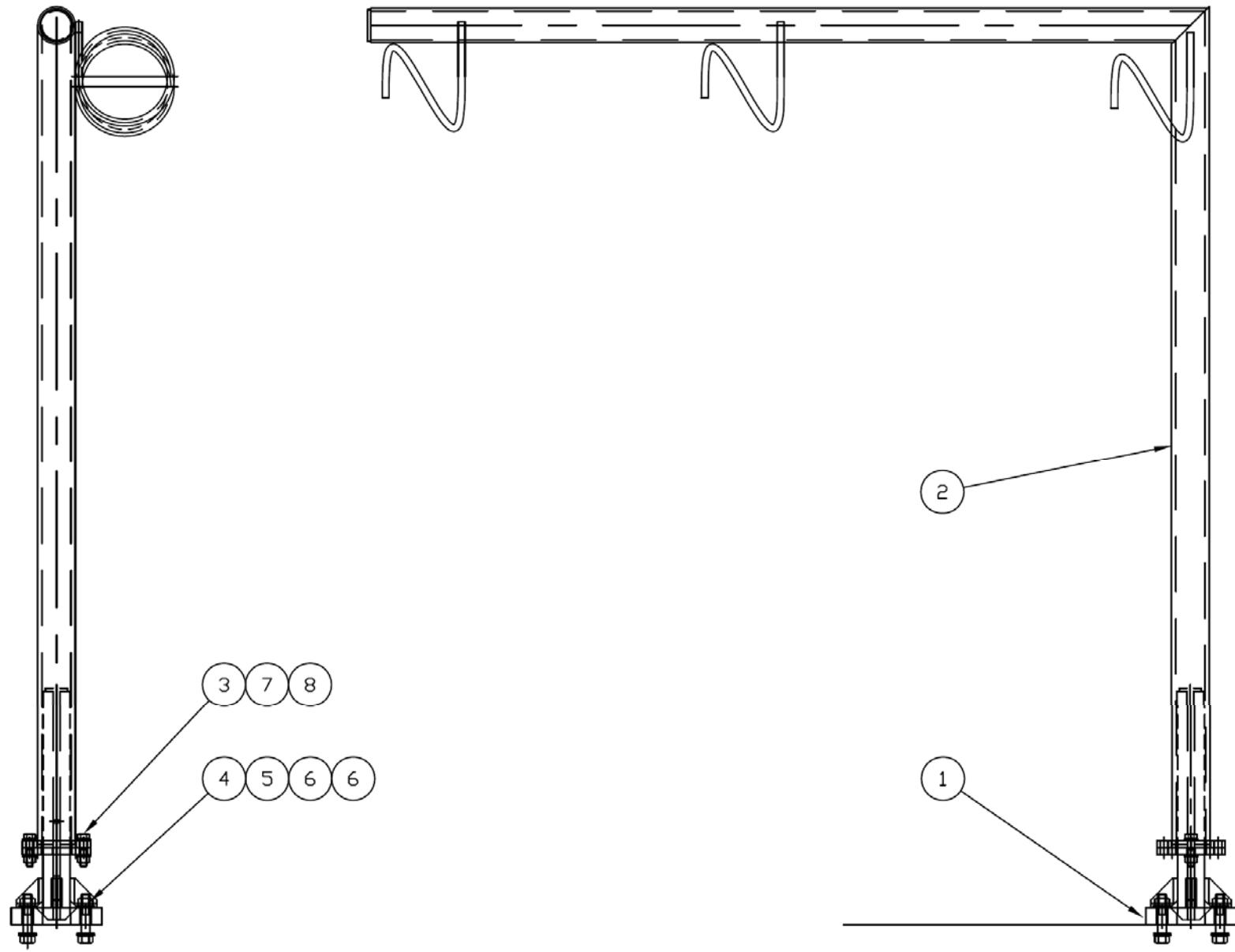
2 C/W NUTS & WASHERS

TORQUE U-BOLTS IN CROSS PATTERN  
BOLTING TORQUE:  
 $275\pm37$  lb-ft  
( $370\pm50$  N-m)

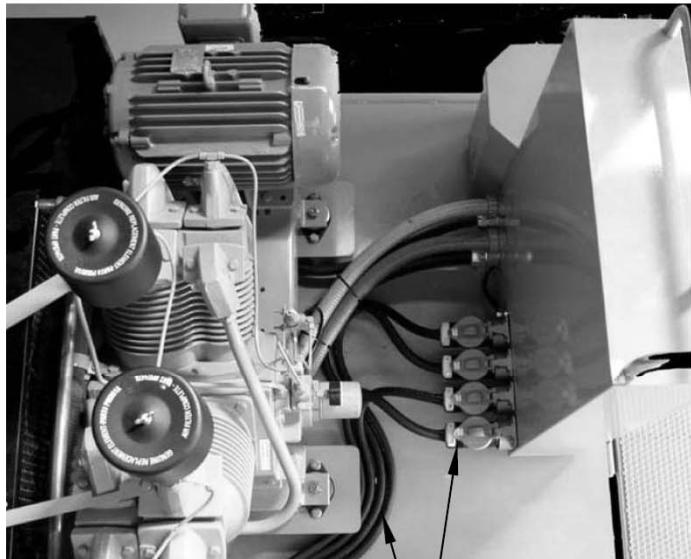
ENSURE GOOD CONNECTION  
AFTER TORQUING



ITEM	QTY	PART NO	DESCRIPTION
1	1	046-35-003	AS – FRONT CTWT MOUNT
2	2	006-12-003	HDW – UBOLT – $\frac{3}{4}$ -16 UNF X 5.75 LNG X 2 ID X 2 LNG THD C/W NUTS & WASHERS
3	2	046-35-008	PLT – U-BOLT COLLAR



AS - WHOSER POLE				037-20-001
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-20-002	AS - BASE WHOSER	
2	1	037-20-008	AS - WHOSER POLE BOOM	
3	2	CAT#8T-4835	1/2-13UNCx2LNG HEX HD PLATED BOLT	
4	4	CAT# 7X-0349	5/8-11UNCx3LNG HEX HD PLATED BOLT	
5	4	CAT# 3K-2889	5/8-11 HARD, PLATED LOCK NUT	
6	8	CAT# 8T-4122	WASHER-FLAT-HARD-PLATED 5/8-IN	
7	2	CAT# 1K-6872	1/2-13 HARD, PLATED LOCK NUT	
8	4	CAT# 8T-4223	WASHER-FLAT-HARD-PLATED 1/2-IN	



037-05-05-081B

1



037-05-05-005B

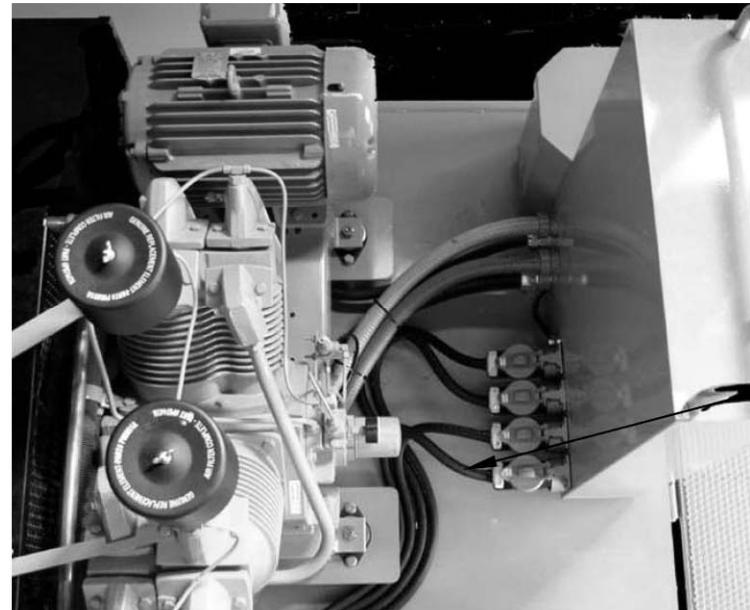
2 3 4 5

ITEM	QTY	PART NO	DESCRIPTION
1	*	037-40-004	GP - CONNECTION KIT, MILLER 456 WELDER
2	*	037-35-038	AS - WELDER, MILLER 456, 480V/60Hz
3	*	037-35-039	AS - WELDER, MILLER 304 XMT
4	*	037-35-040	AS - WELDER, LINCOLN V350 PRO
5	*	037-35-072	GP – WELDER PWR UIT XMT 350

\*SELECT ITEM AND QUANTITY (4 MAX) FROM LIST SHOWN. (WELDER ASSY'S INCLUDE CONNECTION KIT)

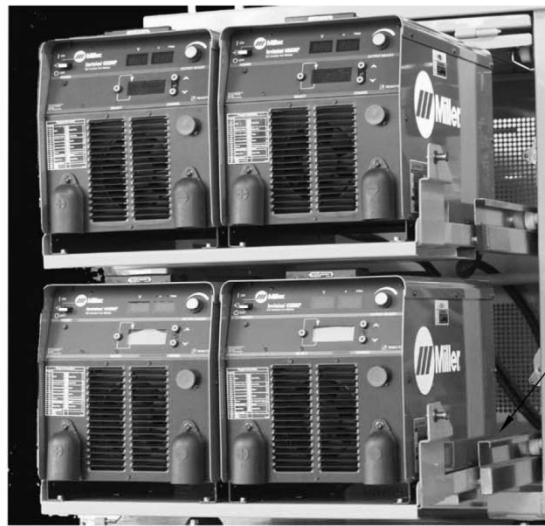


037-05-005B

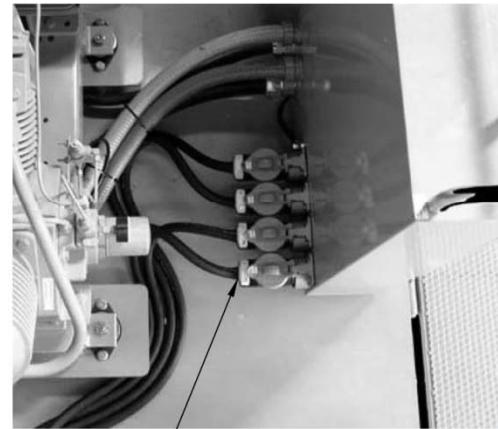
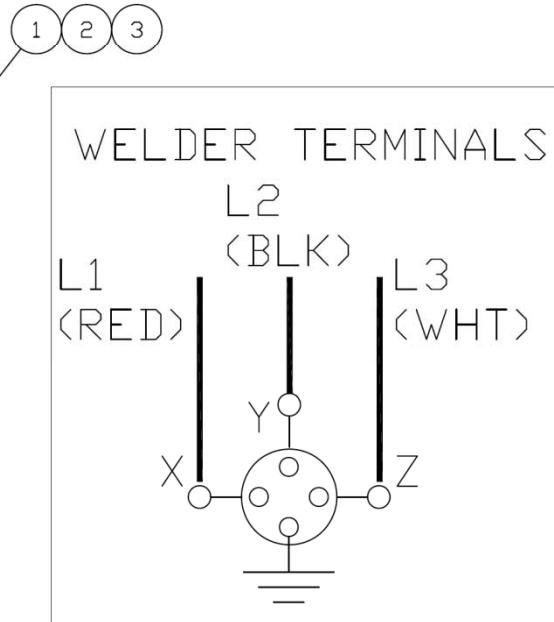


037-05-081B

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-35-042	WELDER, MILLER 456
2	1	037-40-004	GP – WIRING, WELDER



037-05-05-005B



037-05-05-081B

<b>ITEM</b>	<b>QTY</b>	<b>PART NO</b>	<b>DESCRIPTION</b>
1	1	006-40-013	ELEC - .875 - .985 1" LT STRAIN RELIEF
2	1	006-40-011	ELEC - LOCK NUT 1" FOR USE WITH CONDUIT
3	2	006-40-012	ELEC - REDUCING WASHER 1 1/4" - 1"
4	1	006-40-014	ELEC - CONNECTOR TWISTLOCK
5	1	037-40-059	ELEC - WELDER PWR CABLE

ONE KIT REQUIRED PER WELDER POWER UNIT

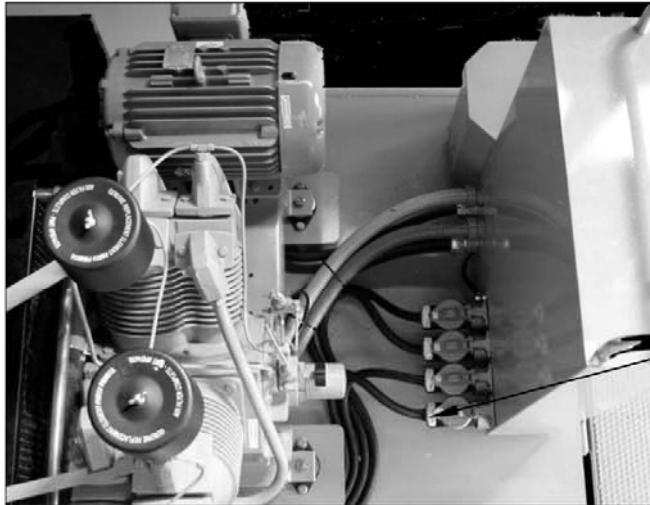
AS – WELDER, MILLER XMT 304

037-35-039



037-05-05-114A

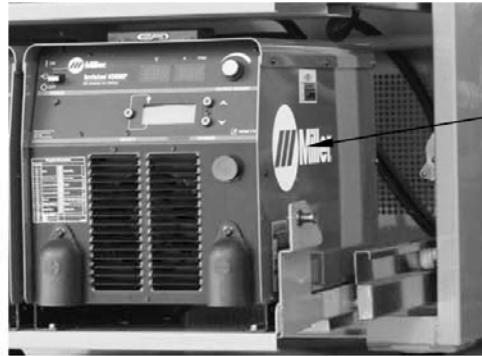
1



037-05-05-081B

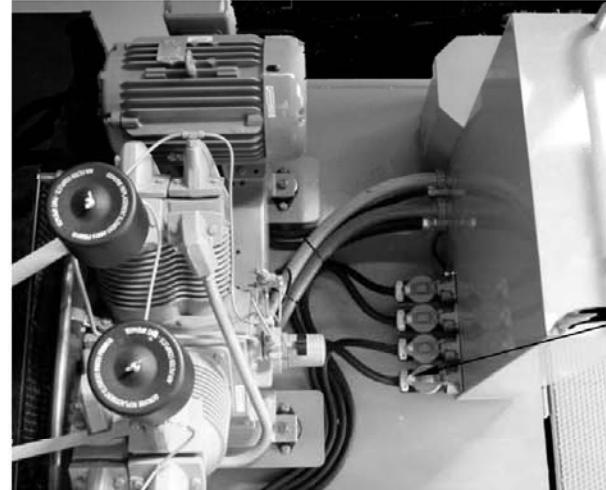
2

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-35-043	WELDER, MILLER XMT 304
2	1	006-40-014	ELEC – CONNECTOR TWISTLOCK



037-05-05-005B

1  
(NOT AS SHOWN)



037-05-05-081B

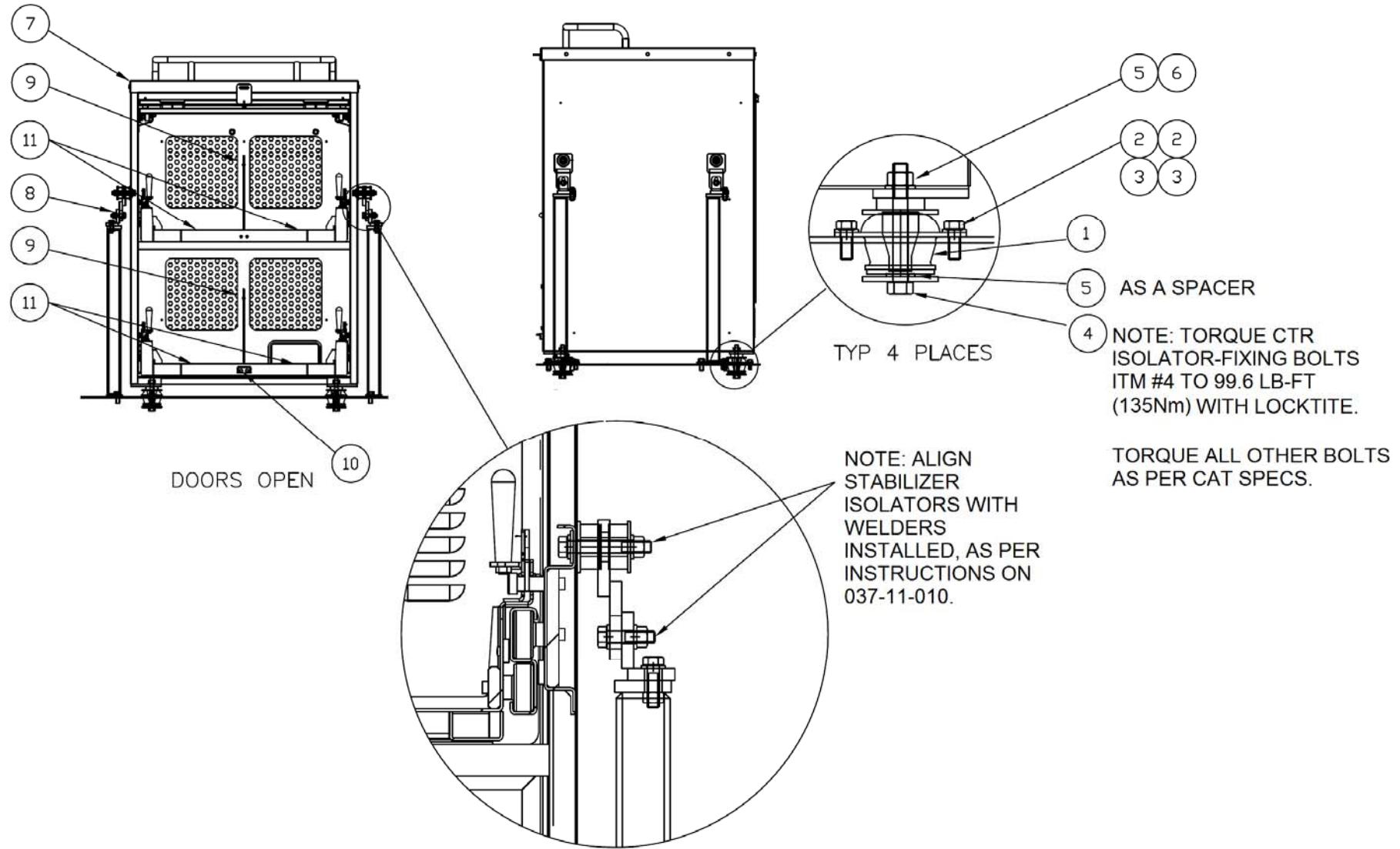
2

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-35-044	WELDER, LINCOLN V350 PRO
2	1	006-40-014	ELEC – CONNECTOR TWISTLOCK

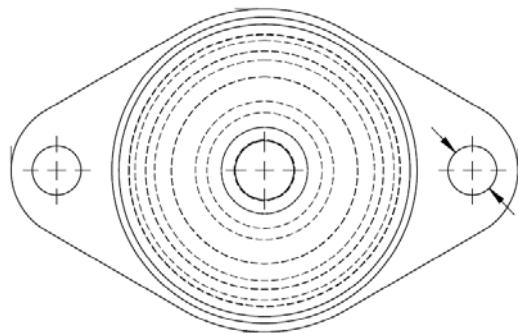
<b>GP - WELDER PWR UNIT XMT 350</b>				037-35-072
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-35-073	AS - WELDER PWR UNIT XMT 350	
2	1	006-40-014	ELEC - CONN TWISTLOCK 50A 480V	

<b>OPT – FRAME – WELDING MOUNT</b>				037-35-051
ITEM	QTY	PART NO	DESCRIPTION	
1	*1	037-11-001	GP WELDER DOGHOUSE	
2	*1	037-35-052	GP – FRAME – WELDING MOUNT - FRONIUS	

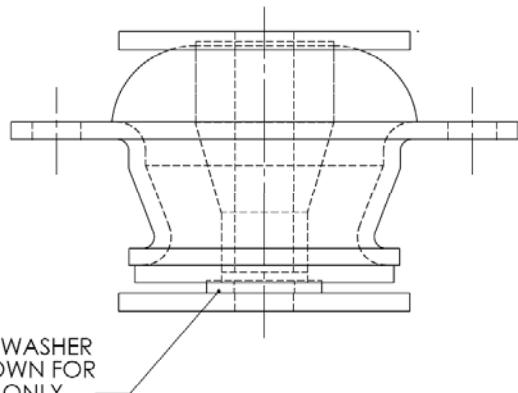
\* OPTIONAL: IF REQUIRED, SELECT ONE ITEM ONLY FROM THE LIST SHOWN.



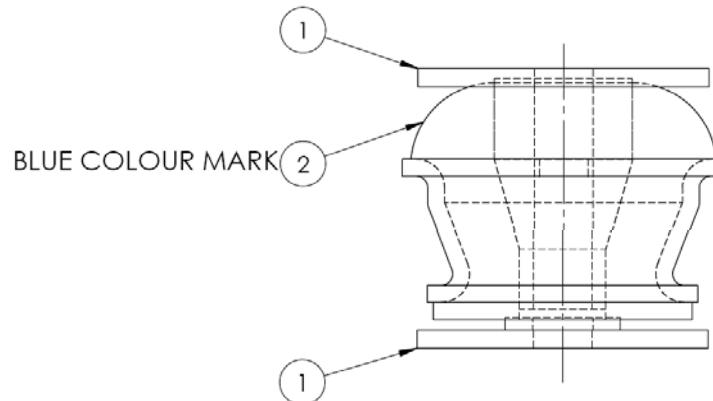
GP – WELDER DOGHOUSE				037-11-001
ITEM	QTY	PART NO	DESCRIPTION	
1	4	037-05-023	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND	
2	8	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC x 1-1/4 LNG	
3	16	CAT# 8T-4223	WASHER-FLAT-HARD-PLATED 1/2-IN	
4	4	CAT# 7X-0356	CAPSCREW-HEX HD-PLATED 5/8-11 x 5 LNG	
5	8	CAT# 8T-4122	WASHER-FLAT-HARD-PLATED 5/8-IN	
6	4	CAT# 3K-2889	HEX NUT-HARD-PLATED 5/8-11UNC SELF-LOCK	
7	1	037-11-160	AS - WELDER DOGHOUSE	
8	4	037-11-010	AS - DOGHOUSE DECK MOUNT STABILIZER ISOLATOR	
9	4	037-35-045	TIE STRAP, 1" X 12' NYLON	
10	1	CAT# 246-2641	PADLOCK - Ø5/8 BOLT	
11	4	037-35-069	HDWM - WELDER BOX LINER	



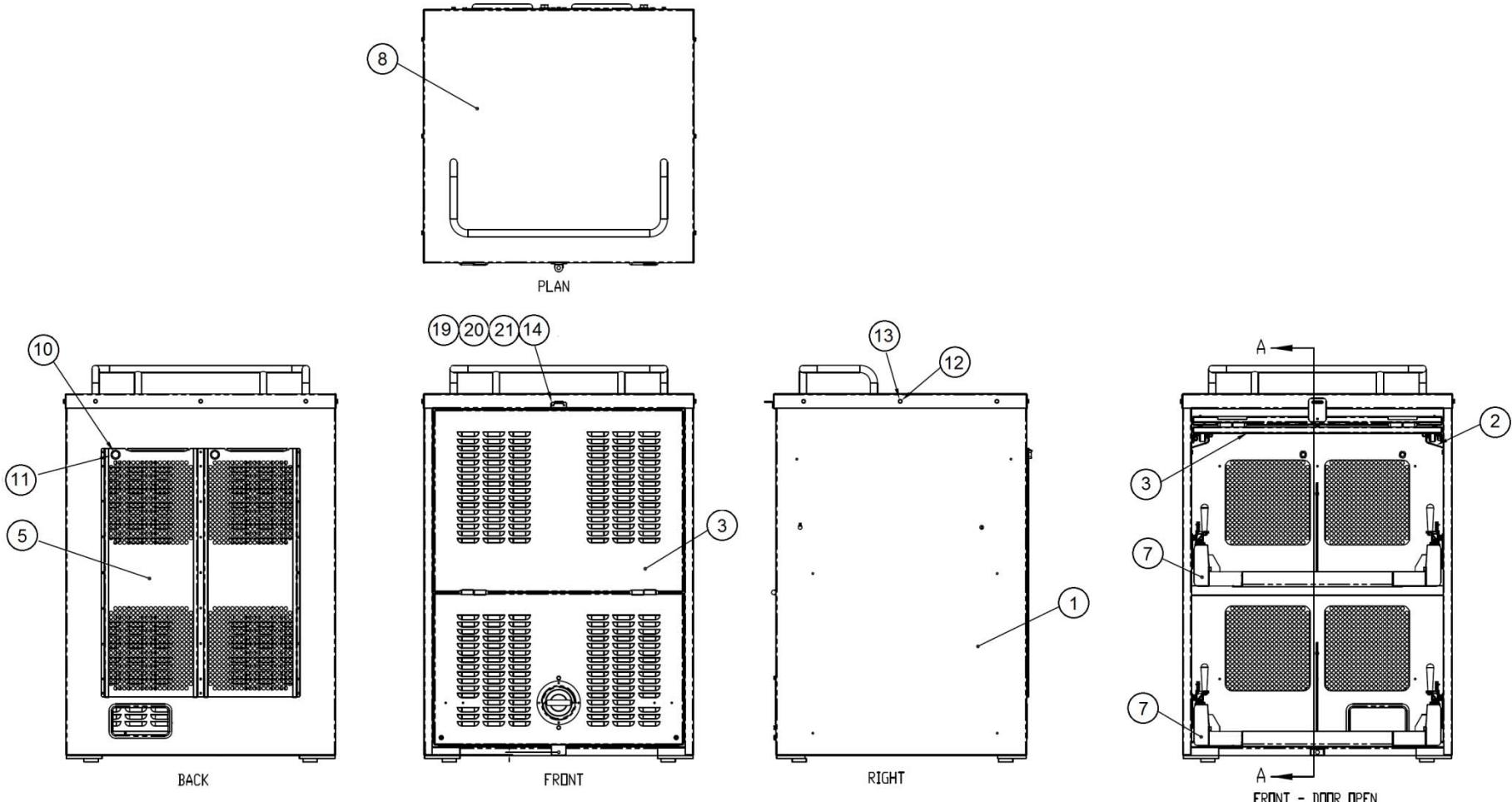
NOTE: TORQUE CTR  
ISOLATOR-FIXING  
BOLTS TO 99.6  
lb-ft (135 Nm)

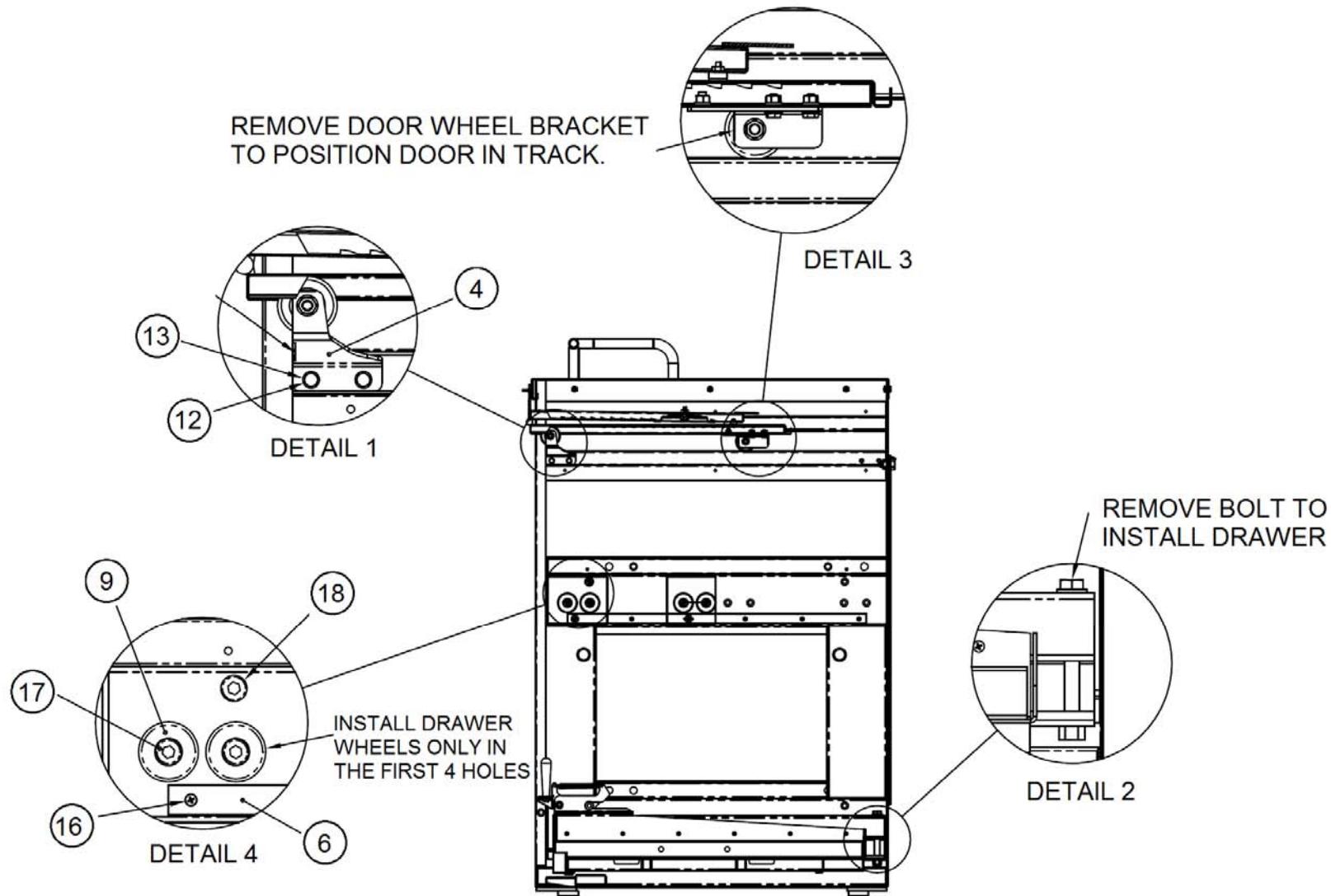


NOTE: OVERLOAD WASHERS SHOWN AT LOADED HEIGHT.



ITEM	QTY	PART NO	DESCRIPTION
1	2	037-45-002	HDWM - OVERLOAD/REBOUND WASHER
2	1	037-45-008	HDWM - VIBRATION ISOLATOR - PLATE MOUNT DIAMOND



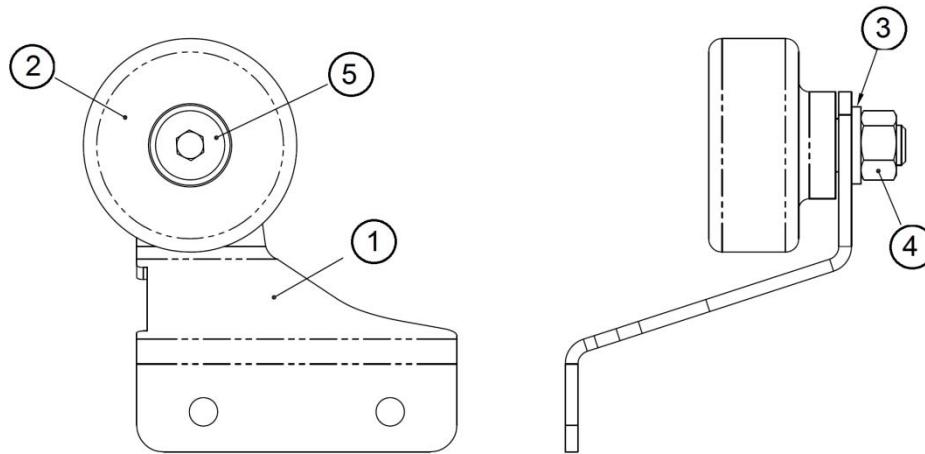


AS – WELDER BOX ASSEMBLY				037-11-160
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-11-163	BOX SUBASSEMBLY	
2	1	037-11-199	BOX MTD. WHEEL BKT. ASSEMBLY - RH	
3	1	037-11-208	DOOR ASSEMBLY	
4	1	037-11-200	BOX MTD. WHEEL BKT. ASSEMBLY - LH	
5	2	037-11-211	REAR DOOR PANEL	
6	4	037-11-212	NYLON GUIDE - BOX MOUNTED	
7	2	037-11-225	DRAWER SUBASSEMBLY	
8	1	037-11-162	ROOF SUBASSEMBLY	
9	16	037-11-191	DRAWER WHEEL	
10	2	CAT# 5C-6266	5/8-11x1"UNC HEX HEAD BOLT	
11	2	CAT# 8T-4122	5/8" HARDENED FLAT WASHER	
12	13	CAT# 5S-7349	1/4-20x1/2"UNC HEX HEAD BOLT	
13	13	CAT# 8T-4205	1/4" HARDENED FLAT WASHER	
14	1	MCC# 1183A12	ZINC PLATED ANGLE PADLOCK EYE	
15	1	037-11-367	HDWM - PUSH ON VINYL EDGING 72"	
16	24	001-04-008	HDWM – RIVET 03/16"X0.45 ALUMINUM BUTTON HEAD	
17	16	001-04-009	HDWM - SHOULDER BOLT 1/2-13UNC w 5/8"x1" SHOULDER	
18	4	001-04-010	HDWM - SHOULDER BOLT 1/2-13UNC w 5/8"x1-1/4" SHOULDER	
19	2	MCC# 92314A831	BOLT - #10-32x3/4LNG HEX HEAD STAINLESS STEEL (50/PKG)	
20	2	MCC# 91831A411	NUT - #10-32 HEX HEAD NYLON LOCK STAINLESS STEEL (100/PKG)	
21	4	MCC# 98370A027	WASHER - #10 STAINLESS STEEL (5/PKG)	

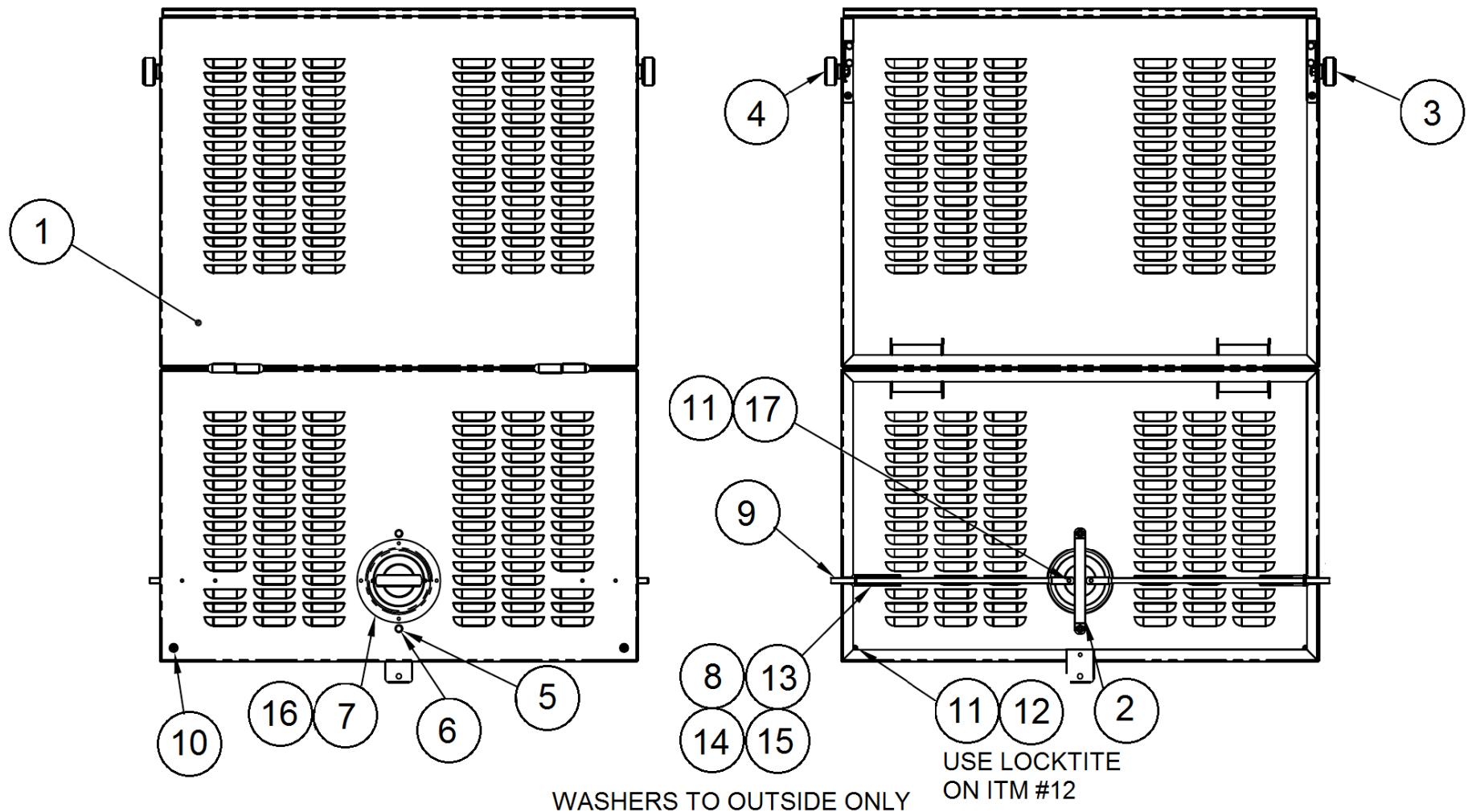
NOTES:

AS - BOX MTD. WHEEL BKT - RH

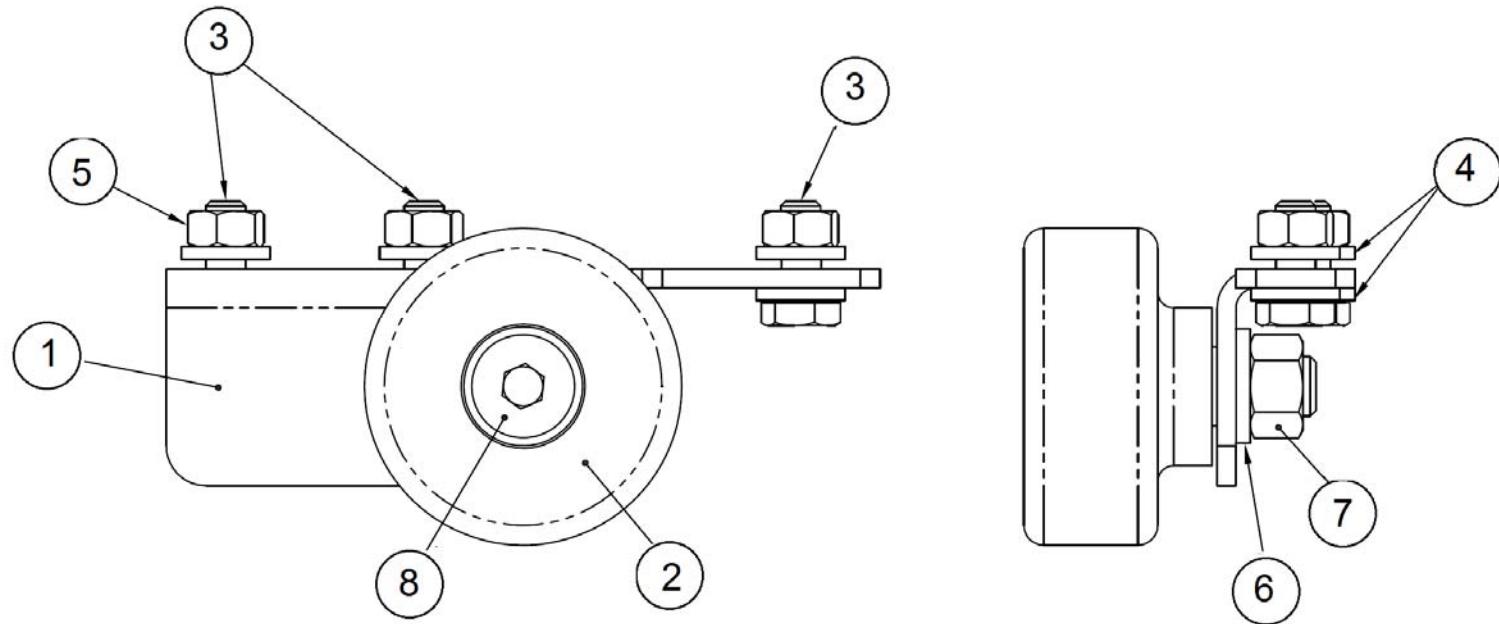
037-11-199



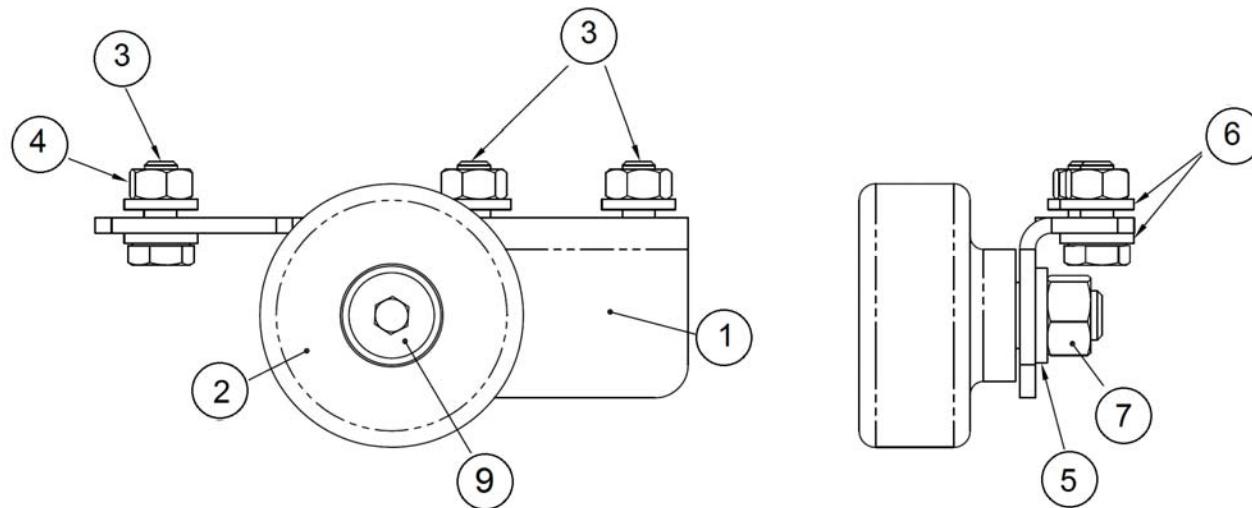
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-195	BOX MOUNTED DOOR WHEEL BKT. RH
2	1	037-11-197	DOOR WHEEL
3	1	CAT# 8T-4896	3/8" HARDENED FLAT WASHER
4	1	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT
5	1	MCC# 91259A711	SHOULDER BOLT 3/8-16UNC w 1/2"x7/8" SHOULDER



AS – DOOR ASSEMBLY				037-11-208
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-11-203	DOOR WELDED SUBASSEMBLY	
2	1	037-11-226	DOOR HARDWARE GUARD ASSEMBLY	
3	1	037-11-204	DOOR MTD. WHEEL BKT. ASSEMBLY - LH	
4	1	037-11-198	DOOR MTD. WHEEL BKT. ASSEMBLY - RH	
5	2	CAT# 8T-4205	1/4" HARDENED FLAT WASHER	
6	2	CAT# 5S-7349	1/4-20x1/2"UNC HEX HEAD BOLT	
7	1	037-11-377	HDWM - D-RING D.B. KIT INC. HARDWARE	
8	2		REF. GUIDE- D.N.O.	
9	2		REF. ROD - D.N.O.	
10	2	MCC# 93115K74	HDWM-LOAD-RATED THREADED POLYURETHANE RUBBER BUMPER WITH METAL PL 1/4-20UNCx1/2LNG MALE	
11	4	CAT #8T-4205	WASHER -14 HARD PLATED	
12	2	CAT# 6V-8185	HDW - NUT 1/4-20 ZINC PLATED	
13	4	MCC# 92314A830	BOLT - 10-32x5/8LNG STAINLESS STEEL HEX HD MACHINE SCREW (PACKS OF 100)	
14	4	MCC# 98370A027	WASHER - #10 SCREW SIZE, STAINLESS STEEL (PACKS OF 5)	
15	4	MCC# 91831A411	NUT - 10-32 NYLON-LOCK STAINLESS STEEL (PACKS OF 100)	
16	4	001-04-008	HDWM - RIVET Ø3/16"X0.45" ALUMINUM BUTTON HEAD	
17	2	CAT# 3B-4611	COTTER PIN - 3/32 x 1"LNG	

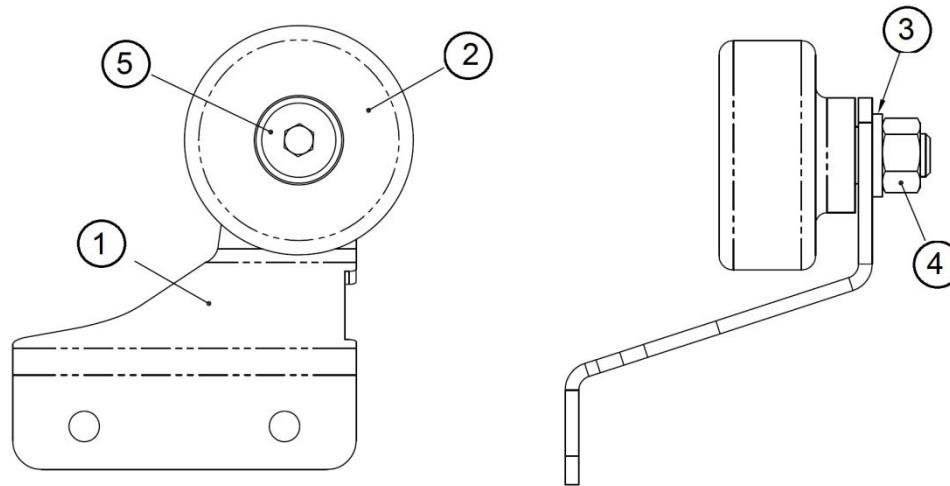


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-206	DOOR MOUNTED BEARING BRACKET - LH
2	1	037-11-197	DOOR WHEEL
3	3	CAT# 8T-9364	1/4-20x5 8"UNC HEX HEAD BOLT
4	3	CAT# 8T-4205	1/4" HARDENED FLAT WASHER
5	1	CAT# 7H-8909	1/4-20UNC SELF LOCKING NUT
6	6	CAT# 8T-4896	3/8" HARDENED FLAT WASHER
7	1	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT
8	1	MCC# 91259A711	SHOULDER BOLT 3/8-16UNC w 1/2"x7/8" SHOULDER

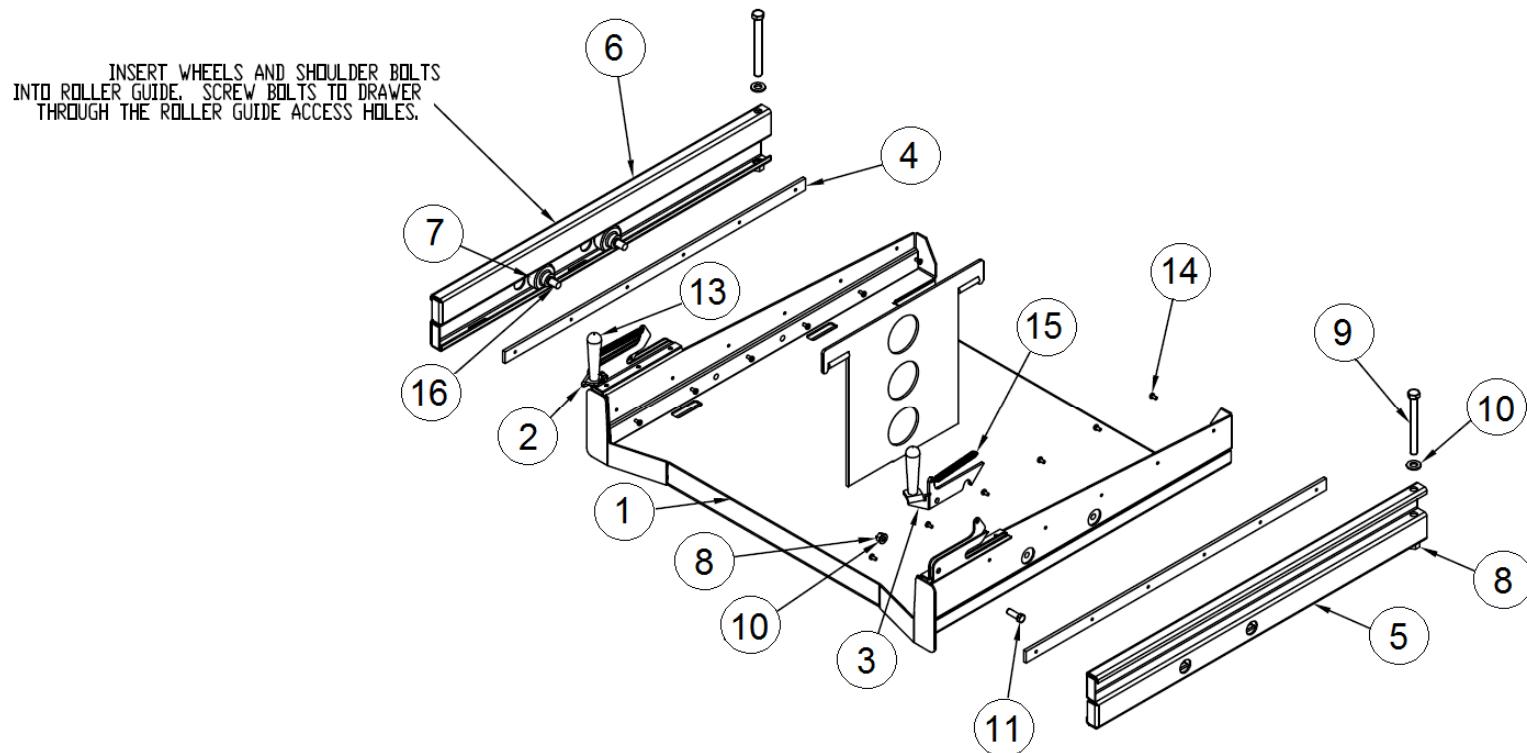


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-196	DOOR MOUNTED BEARING BRACKET - RH
2	1	037-11-197	DOOR WHEEL
3	3	CAT# 8T-9364	1/4-20x5 8/UNC HEX HEAD BOLT
4	3	CAT# 7H-8909	1/4-20UNC SELF LOCKING NUT
5	1	CAT# 8T-4896	3/8" HARDENED FLAT WASHER
6	6	CAT# 8T-4205	1/4" HARDENED FLAT WASHER
7	1	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT
8	1	MCC# 91259A711	SHOULDER BOLT 3/8-16UNC w 1/2"x7/8" SHOULDER

NOTES:

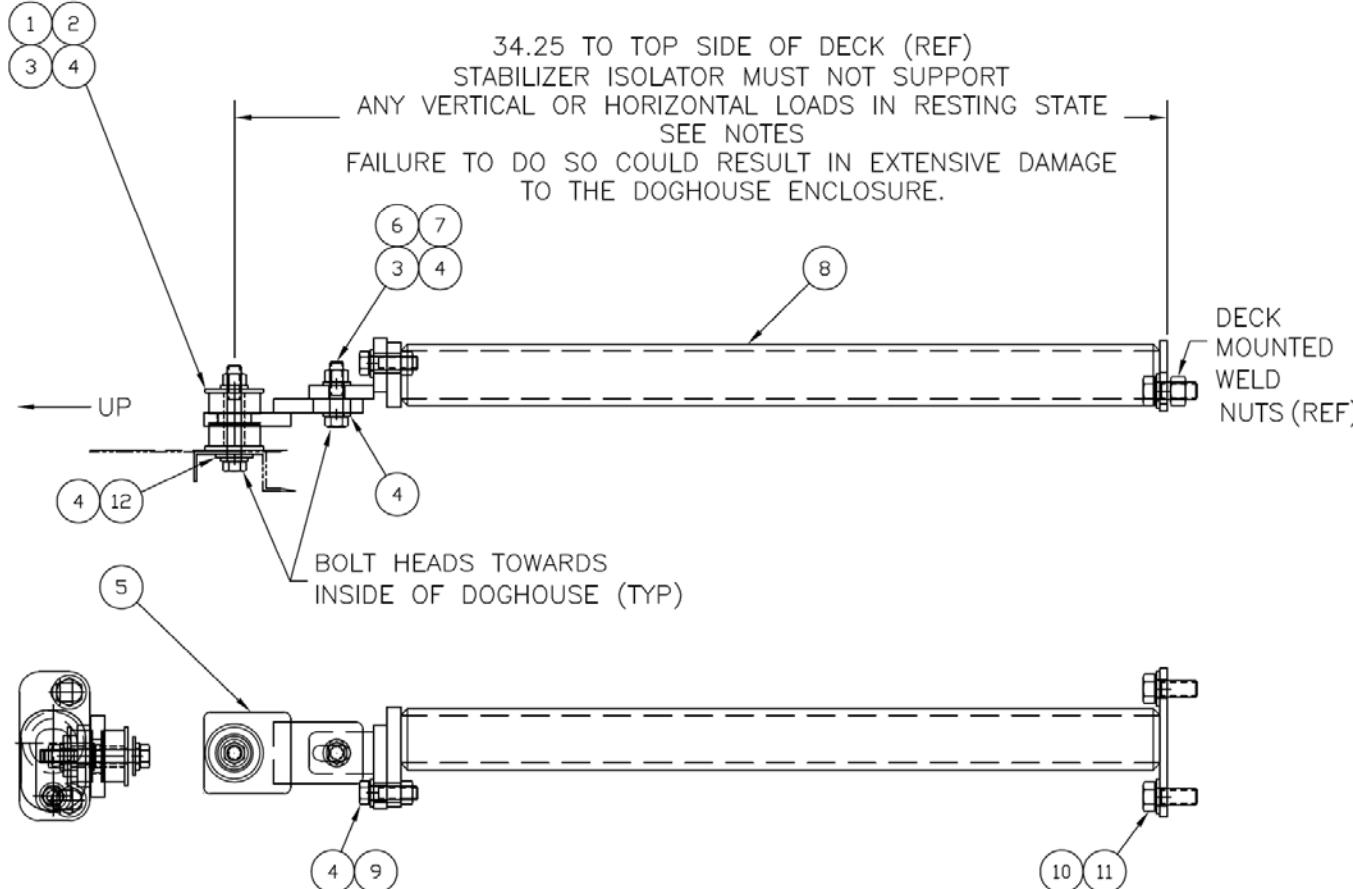


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-11-205	BOX MOUNTED DOOR WHEEL BKT. LH
2	1	037-11-197	DOOR WHEEL
3	1	CAT# 8T-4896	3/8" HARDENED FLAT WASHER
4	1	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT
5	1	MCC# 91259A711	SHOULDER BOLT 3/8-16UNC w 1/2"x7/8" SHOULDER



DRAWER SUBASSEMBLY				037-11-225
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-11-161	DRAWER WELDED SUBASSEMBLY	
2	1	037-11-185	LATCH SUBASSEMBLY - LH	
3	1	037-11-186	LATCH SUBASSEMBLY - RH	
4	2	037-11-212	GUIDE - BOX MOUNTED	
5	1	037-11-166	DRAWER ROLLER GUIDE - RH	
6	1	037-11-165	DRAWER ROLLER GUIDE - LH	
7	4	037-11-191	DRAWER WHEEL	
8	4	CAT# 2K-4973	3/8-16UNC SELF LOCKING NUT	
9	2	CAT# 7X-0295	BOLT - 3/8-16UNCx5-1/4" HEX HEAD PLATED	
10	4	CAT# 8T-4896	3/8" HARDENED FLAT WASHER	
11	2	CAT# 8T-2502	3/8-16x1-1/8"UNC HEX HEAD BOLT	
13	2	MCC# 62385K65	TRAY LOCK HANDLE	
14	12	001-04-008	HDWM - RIVET Ø3/16"X0.45" ALUMINUM BUTTON HEAD	
15	2	MCC# 9654K918	MMC EXTENSION SPRING 7/16"x4-1/2" (QTY.12)	
16	4	001-04-009	HDWM - SHOULDER BOLT 1/2-13UNC W 5/8"X1" SHOULDER	

INSTALL LOCKNUT AND TIGHTEN TO SNUG-FIT OVERLOAD WASHERS  
ONTO ISOLATOR'S INNER TUBE SLEEVE (ENSURE ZERO-CLEARANCE).  
TIGHTEN LOCKNUT AN ADDITIONAL 1/8TH TURN (45°) TO A MAX OF  
3/16TH TURN (65° MAX), DO NOT OVER TIGHTEN, SEE NOTES

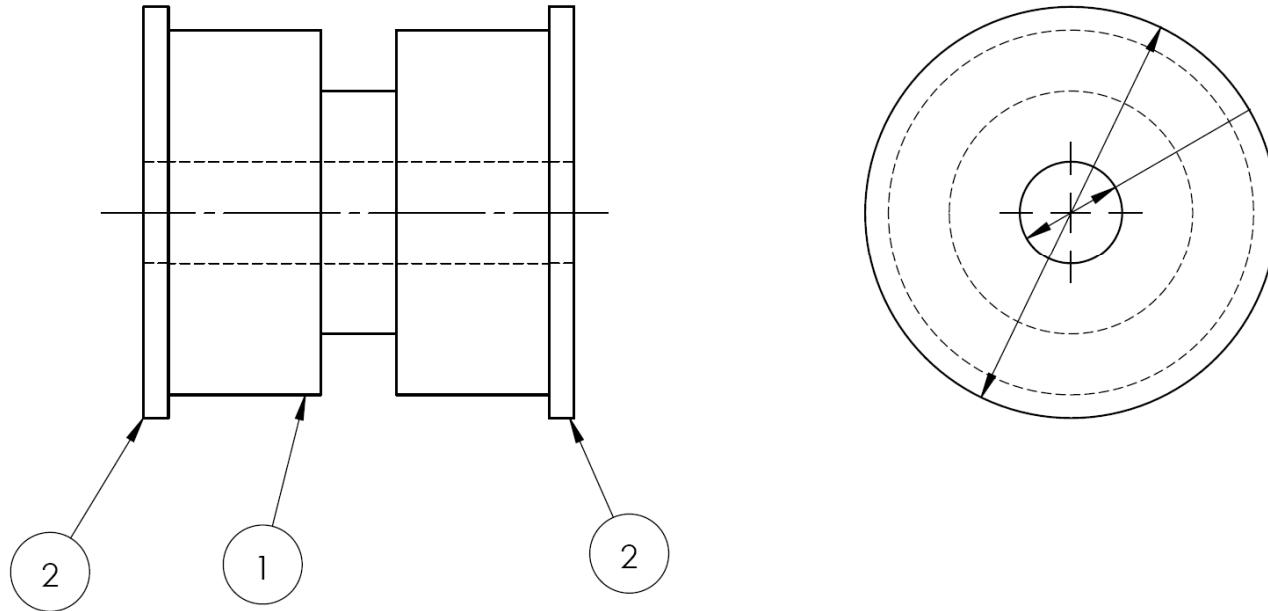


**NOTE:** STABILIZER ISOLATOR  
MUST NOT SUPPORT ANY LOAD  
IN RESTING POSITION. FOLLOW  
PROCEDURE LISTED BELOW.

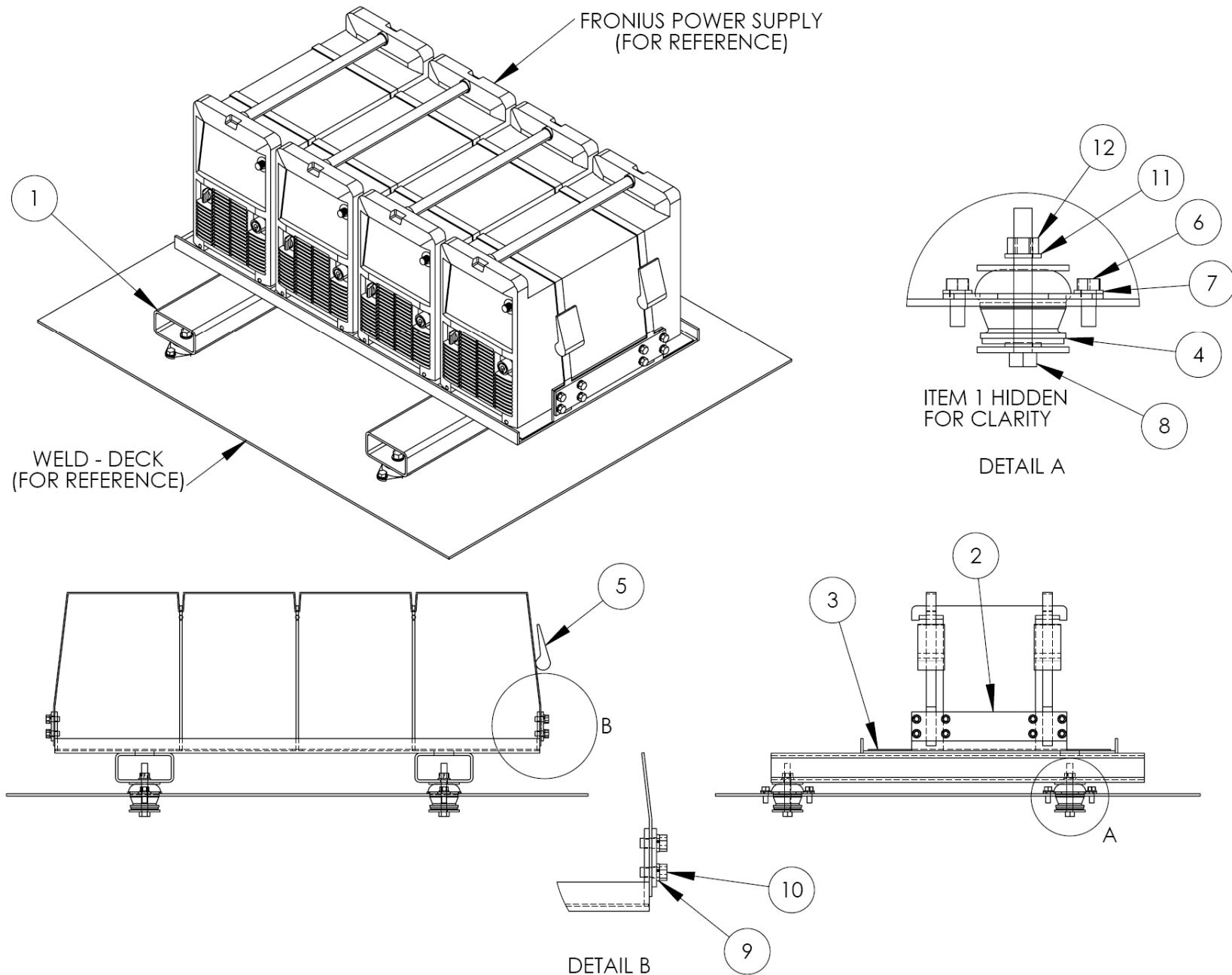
- 1) WITH DOGHOUSE EMPTY (NO WELDERS), INSTALL ASSEMBLED ITMS 1 & 5 ONTO MATING DOGHOUSE HOLE AND TORQUE ISO BOLT (SEE BALLOON NOTE).
- 2) INSTALL ITEM 8 ONTO DECK AND TORQUE BOLTS.
- 3) INSTALL WELDERS INTO DOGHOUSE AND SLIDE WELDERS INTO DOGHOUSE (WORKING POSITION)
- 4) COMPLETELY ALIGN ITM 6 WITH ISOLATOR AND DECK BRKT AND TORQUE BOLTS.
- 5) TORQUE ALL BOLTS AS PER CAT TORQUES, UNLESS OTHERWISE SPECIFIED.

AS – DOGHOUSE DECK MOUNT STABILIZER ISOLATOR				037-11-010
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-05-022	AS - VIBRATION ISOLATOR STABILIZER	
2	1	CAT#7X-0328	1/2-13UNC x 3-1/2LNG HEX HD PLATED BOLT	
3	2	CAT# 1K-6872	1/2-13UNC HEX HD, SELF-LOCKING NUT	
4	5	CAT#8T-4223	1/2 WASHER, HARD PLATED	
5	1	037-11-011	AS - BOX ISO STAY MTG	
6	1	037-11-014	AS - BOX ISO STAY DECK MTG BRKT	
7	1	CAT#8T-4835	1/2-13UNC x 2LNG HEX HD PLATED BOLT	
8	1	037-11-017	AS - DOGHOUSE BOX ISO STAY DECK MOUNT BRKT	
9	1	CAT#8T-8919	1/2-13UNC x 1-3/4 LNG HEX HD PLATED BOLT	
10	2	CAT#8T-9393	5/8-11UNC x 1-1/2 LNG HEX HD PLATED BOLT	
11	2	CAT# 8T-4122	WASHER-FLAT-HARD-PLATED 5/8-IN	
12	1	CAT# 4B-5273	WASHER-USS FLAT-NON-HARD 1/2-IN	

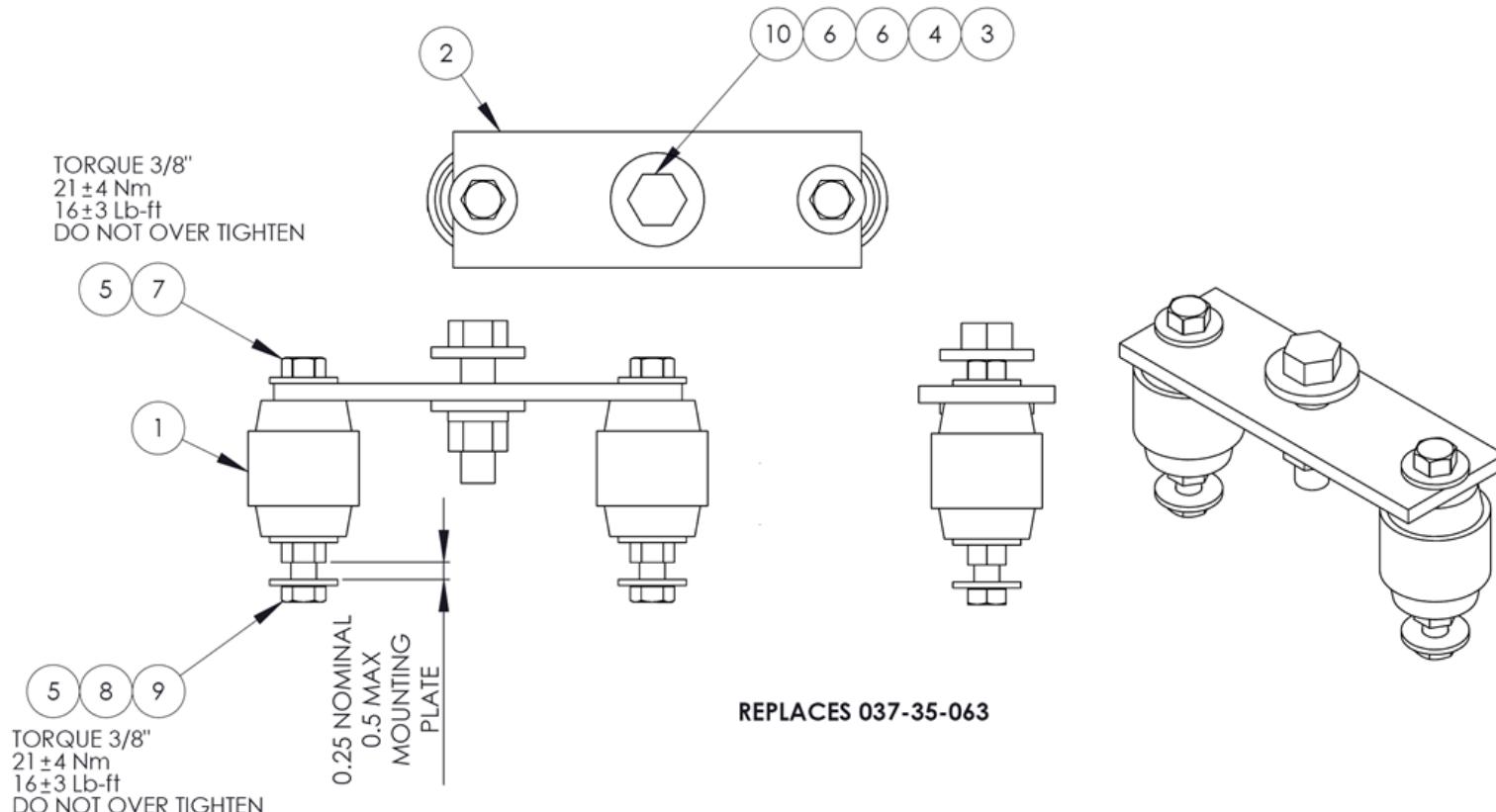
NOTES:



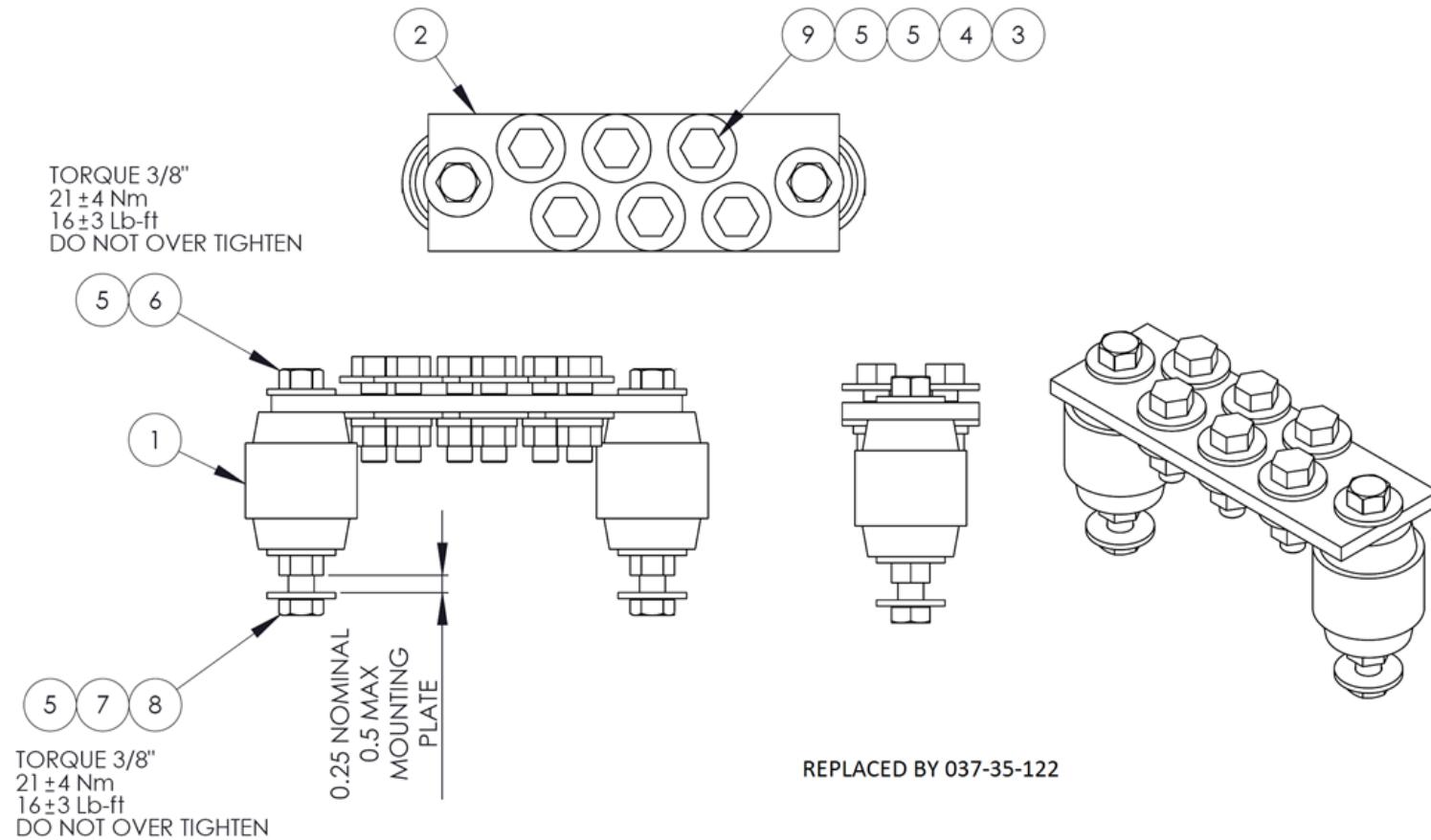
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-45-006	HDWM - VIBRATION ISOLATOR - 2-PIECE CENTER BONDED
2	2	037-45-007	HDWM - OVERLOAD/REBOUND WASHER



GP – FRAME – WELDING MOUNT - FRONIUS				037-35-052
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-35-053	AS - FRAME - WELDING MOUNT - FRONIUS	
2	2	037-35-057	PLT - TIE-DOWN CLAMP PLATE	
3	4	037-35-058	GASKET - WELDING MOUNT - FRONIUS	
4	4	037-05-023	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND	
5	2	MCC# 29665T32	TIE DOWN STRAP - 2" X 30'	
6	8	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
7	8	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
8	4	CAT# 7X-0356	HDW - BOLT - 5/8-11 X 5 HEX	
9	16	CAT# 3B-4508	LOCKWASHER - 1/2 INCH - SPLIT SPRING	
10	16	CAT# 5P-2228	HDW - BOLT - 1/2-13UNC X 1 LNG HEX HD-PLATED	
11	8	CAT# 8T-4122	HDW - WASHER 5/8	
12	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	



ITEM	QTY	PART NO	DESCRIPTION
1	2	006-40-015	ELEC - STANOFF INSULATOR
2	1	037-35-123	PLT - WELDING GROUND 1-POLE
3	1	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC
4	1	CAT# 3B-4508	LOCKWASHER - 1/2 INCH - SPLIT SPRING
5	6	CAT# 4B-5271	HDW - USS WASHER 3/8"
6	2	CAT# 4B-5273	WASHER, USS (34.93MM)
7	2	CAT# 5S-7379	HDW - BOLT 3/8-16UNCx7/8 HEX
8	2	CAT# 6V-8801	HDW - NUT 3/8"- 16
9	2	CAT# 8T-2502	HDW - BOLT 3/8-16UNCx1-1/8 HEX
10	1	CAT# 8T-4835	HDW - BOLT - 1/2-13 UNC X 2.0 HEX

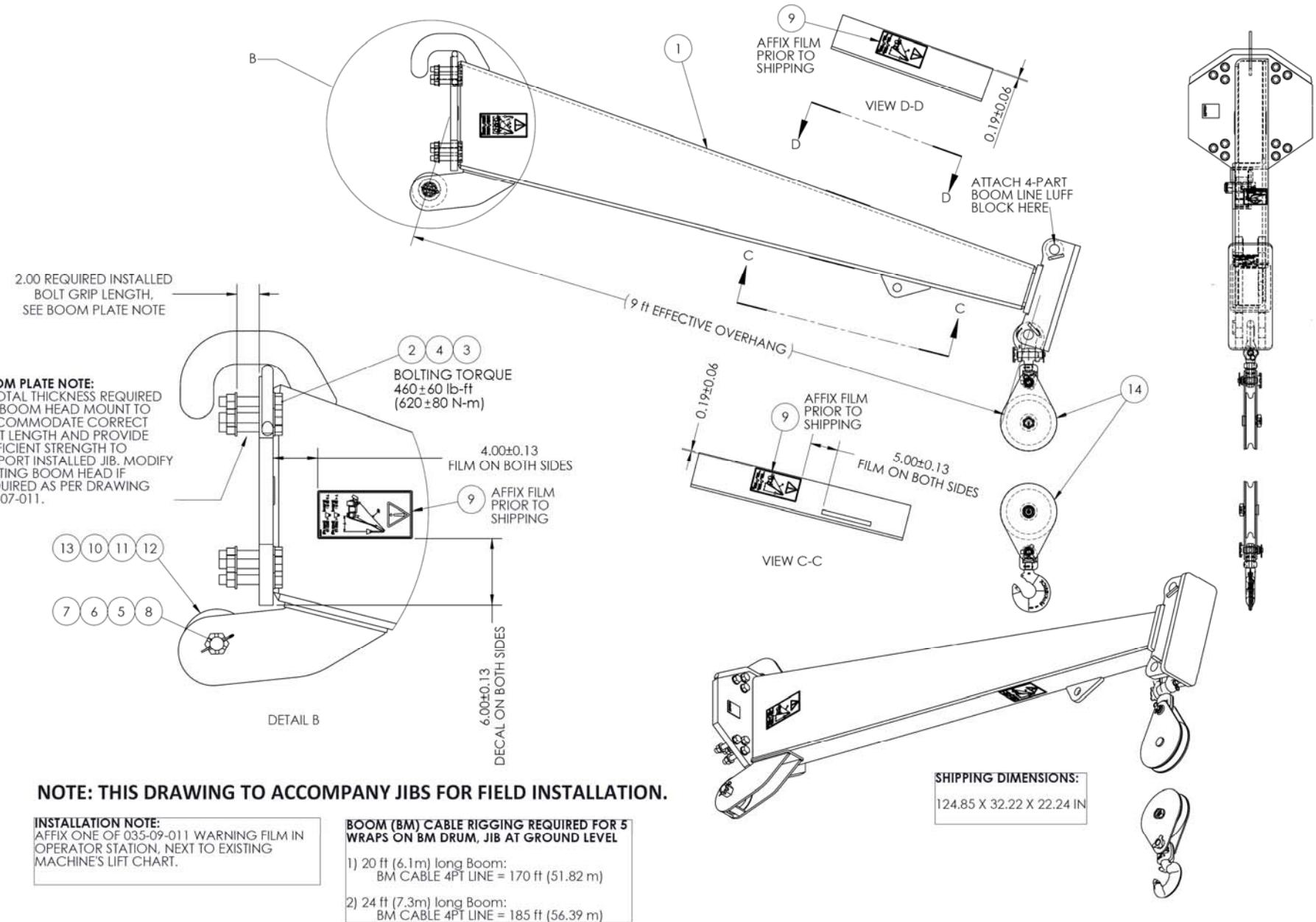


ITEM	QTY	PART NO	DESCRIPTION
1	2	006-40-015	ELEC - STANOFF INSULATOR
2	1	037-35-064	PLT - WELDING GROUND
3	6	CAT# 2K-4973	HDW - LOCK NUT 3/8"
4	6	CAT# 3B-4506	HDW - LOCKWASHER-3/8-SPLIT SPRING
5	18	CAT# 4B-5271	HDW - USS WASHER 3/8"
6	2	CAT# 5S-7379	HDW - BOLT 3/8-16UNCx7/8 HEX
7	2	CAT# 6V-8801	HDW - NUT 3/8"- 16
8	2	CAT# 8T-2502	HDW - BOLT 3/8-16UNCx1-1/8 HEX
9	6	CAT# 9B-7237	HDW - BOLT-3/8-16UNCx1.25 HEX

NOTES:

<b>OPT – OFFSET JIB, WELDDECK</b>			037-35-070
ITEM	QTY	PART NO	DESCRIPTION
1	*1	035-20-030	GP – OFFSET JIB VP 72 – 9ft (2.74m) EXTENSION
2	*1	037-20-020	GP – OFFSET JIB 9ft (2.743 m) 4500 LB (2040kg)
3	*1	043-20-012	GP – OFFSET JIB VP 71N 9ft (2.74 m) EXTENSION

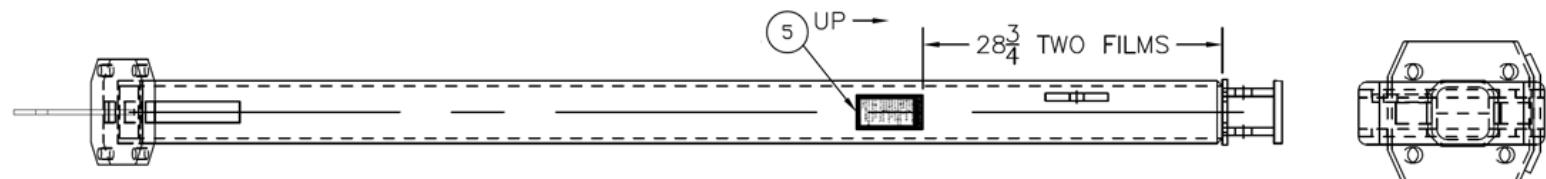
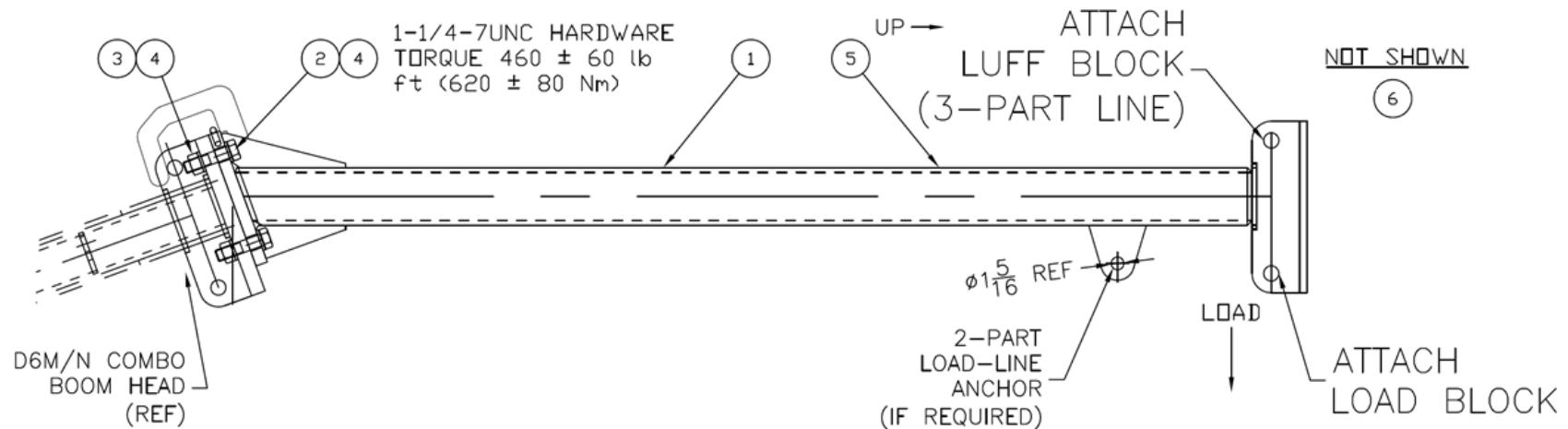
\* OPTIONAL – IF REQUIRED, SELECT ONE ITEM ONLY FROM THE LIST SHOWN



GP – OFFSET JIB-72H 9ft/2.74m EXTENSION				035-20-030
ITEM	QTY	PART NO	DESCRIPTION	
1	1	035-20-031	AS – JIB 72H (9ft / 2.8 m)	
2	12	CAT# 7X-0390	BOLT - 7/8-9 X 5 UNC HEX	
3	12	CAT# 7X-0449	HDW - NUT 7/8"-9	
4	24	CAT# 8C-6913	HDW - WASHER 7/8"	
5	1	CAT# 1B-4444	NUT - HEX THICK SLOTTED	
6	1	CAT# 3B-8489	1/8 NPT GREASE FITTING	
7	1	CAT# 3B-4632	COTTER PIN 3/16 X 2.5	
8	1	042-30-032	BOLT - 1 1/4-12 X 6 UNF HEX - MODIFIED	
9	**5	035-09-011	FILM - JIB OVERHANG WARN (< 28 ft/8.53m = 7500 lb/3402 kg)	
10	1	035-30-034	RB - ROLLER	
11	1	035-30-035	MB - SLEEVE	
12	2	035-30-036	PLT - ROLLER SIDE	
13	1	042-30-033	SPACER	
14	*1	035-30-037	OPT-2-PART HK LINE SNATCH BLOCKS	

\* OPTIONAL – SELECT ONLY IF REQUIRED

\*AFIFIX A TOTAL OF FOUR (4) WARNING FILMS TO JIB, (1) FILM FOR MACHINE INSTALLATION PER INSTALLATION NOTE



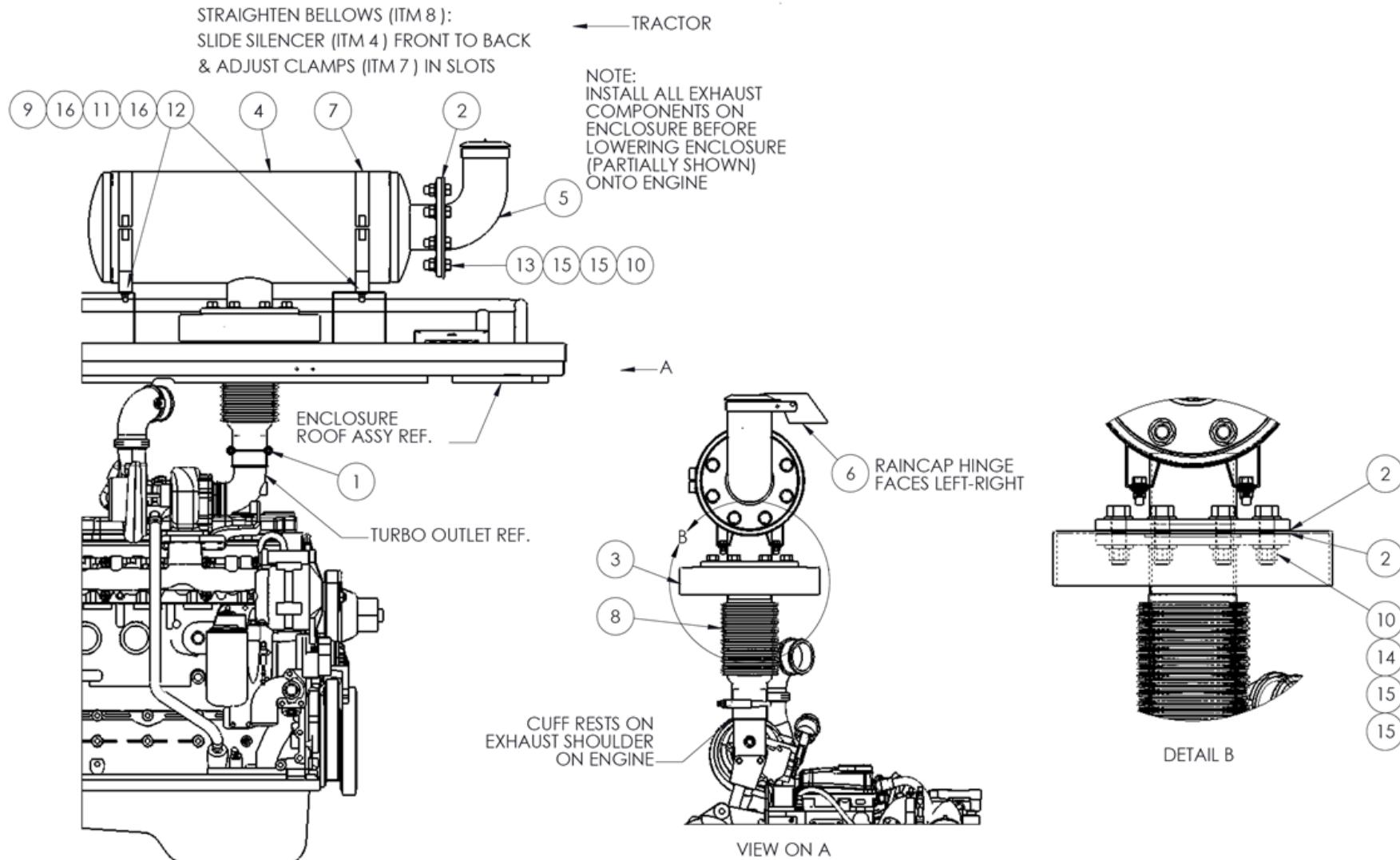
NOTE: THIS DRAWING TO ACCOMPANY JIBS FOR FIELD INSTALLATION

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-021	AS - OFFSET JIB 9-FT (2.743 m) BOLT ON
2	4	CAT# 7X-0445	BOLT - 1-1/4-7UNC X 5LNG PLATED
3	4	CAT# 7X-0451	NUT - 1-1/4-7UNC HARD PLATED
4	8	CAT# 7X-0533	WASHER - 1-1/4 HARD PLATED
5	2	CONTACT VEI	FILM - WARNING MAXIMUM LOAD - OFFSET JIB 9-FT
6	1	037-67-001	COMBO MOD - WELD-DECK EQUALIZER BAR LOCKOUT

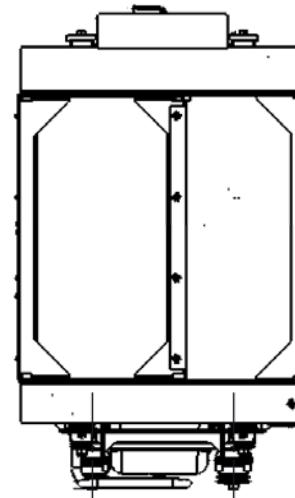
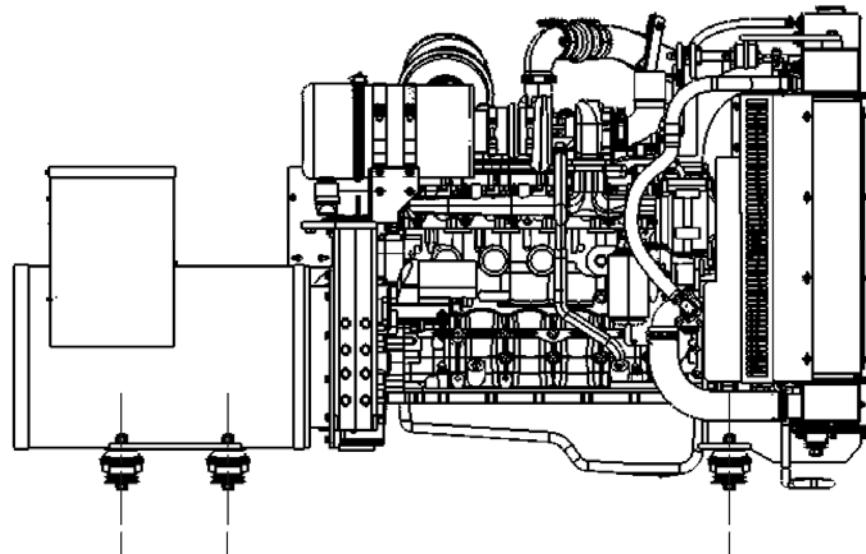
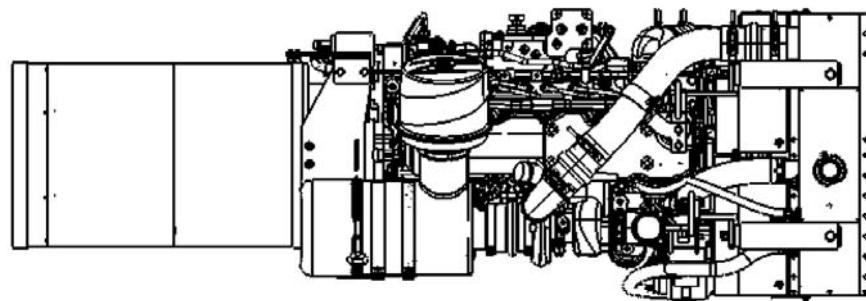
**GP – OFFSET JIB-72 71N 9ft (2.74 m) EXTENSION**

043-20-012

CONTACT VANGUARD FOR  
DETAILS.



GP – SILENCER INDUSTRIAL – S2 ENG				037-50-110
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-50-014	HDWM - CLAMP - 3" MUFFLER	
2	3	006-50-015	HDWM - GASKET - 4-IN ANSI FULL FACED CERAMIC	
3	1	037-50-016	AS - EXHAUST RAIN GUARD	
4	1	037-50-018	AS - INDUSTRIAL GRADE SILENCER	
5	1	037-50-019	AS - EXHAUST ELBOW EXTENSION	
6	1	037-50-020	AS - EXHAUST RAIN CAP	
7	2	037-50-021	AS - EXHAUST 10-IN BRKT	
8	1	037-50-115	HDWM - EXHAUST BELLows - S2 ENG	
9	4	CAT# 031-4155	HDW - HEX NUT, SELF-LOCK 5/16NC	
10	16	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
11	4	CAT# 4B-5269	HDW - USS WASHER 1/4"	
12	4	CAT# 4M-6425	HDW - BOLT 5/16 - 18 X 1"	
13	8	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX	
14	8	CAT# 7X-0347	HDW - BOLT - 5/8-11 UNC X 2.25 HEX	
15	32	CAT# 8T-4122	HDW - WASHER 5/8	
16	8	CAT# 8T-4224	HDW - WASHER M8	

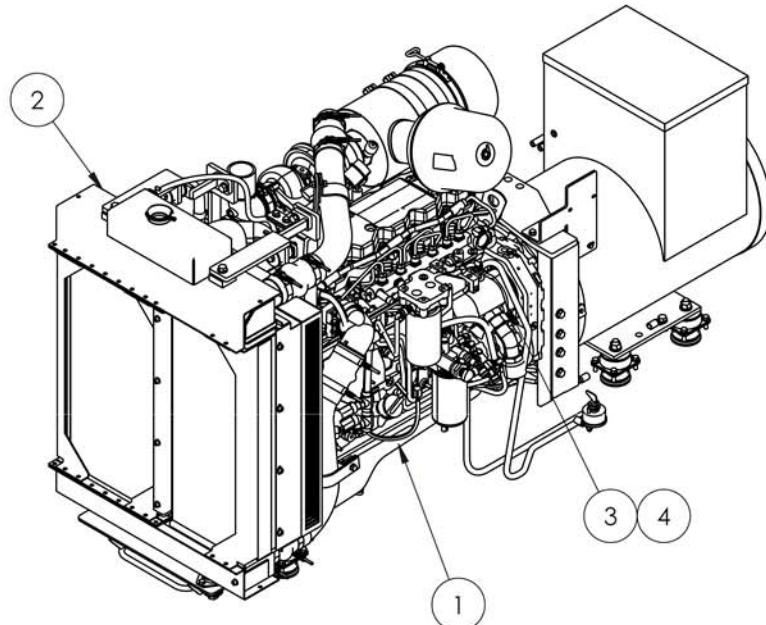
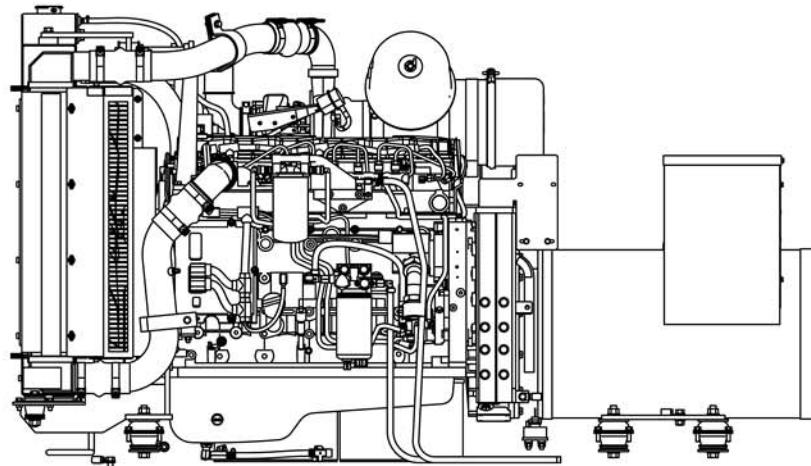
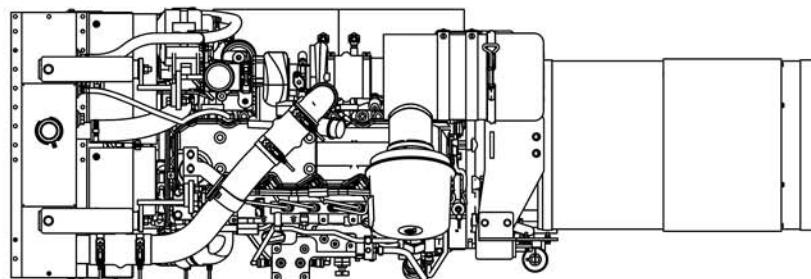


ITEM	QTY	PART NO	DESCRIPTION
1	*1	037-50-113	GP-G-DR ENG W/HYD PUMP-ETHER START
2	*1	037-50-114	GP - G-DR ENG W/ETHER START

\*ONE INSTALLED OPTION ONLY

GP-G-DR ENG W/HYD PUMP-ETHER START

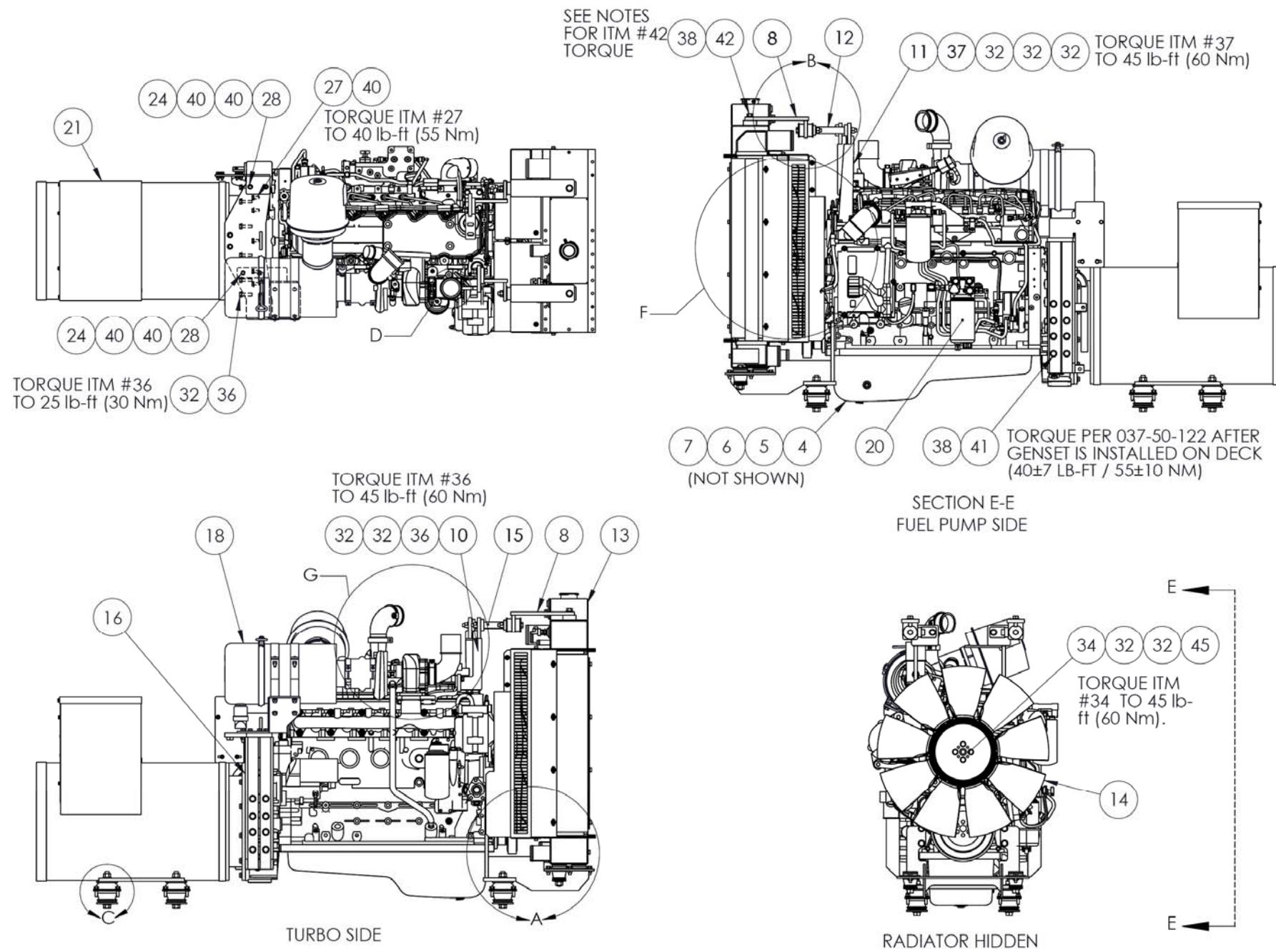
037-50-113

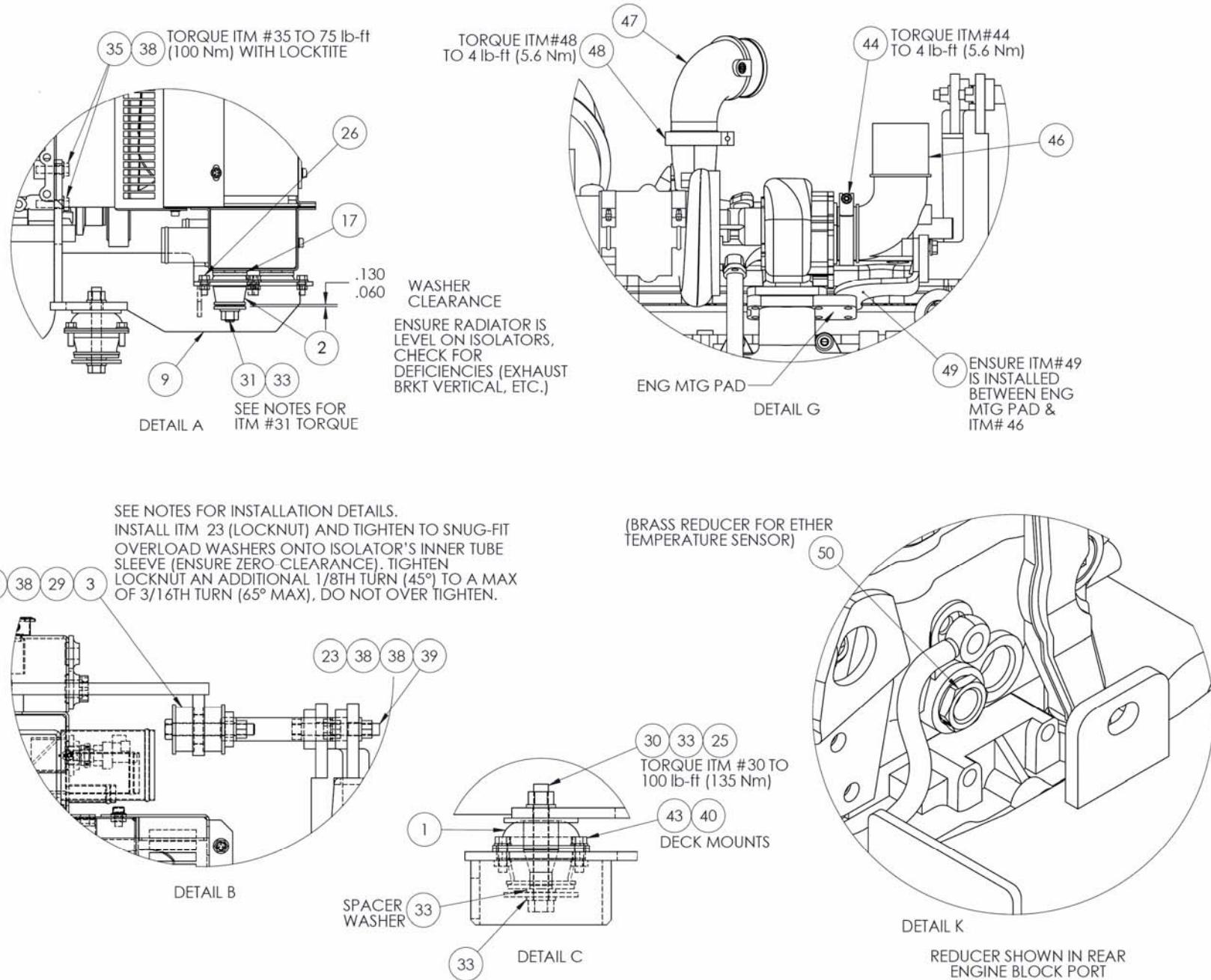


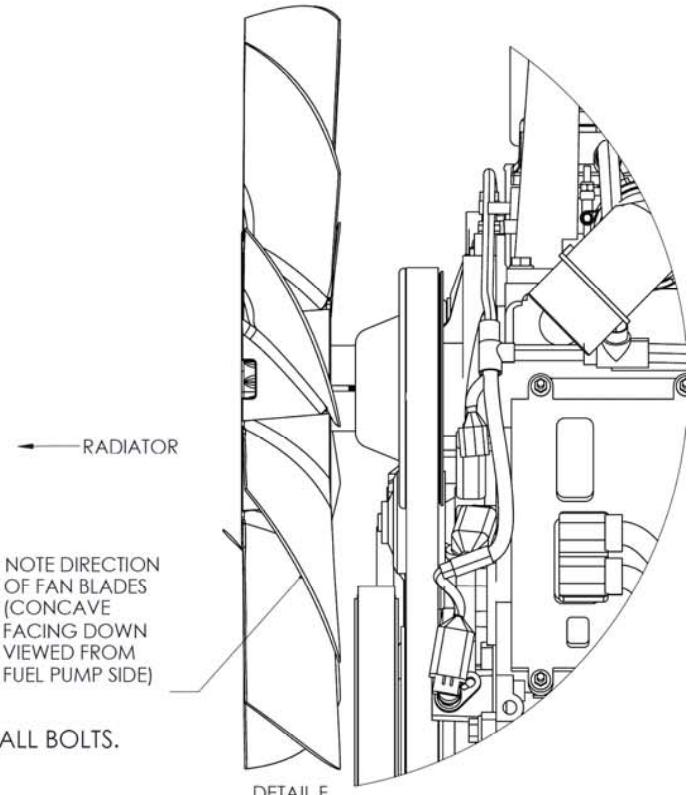
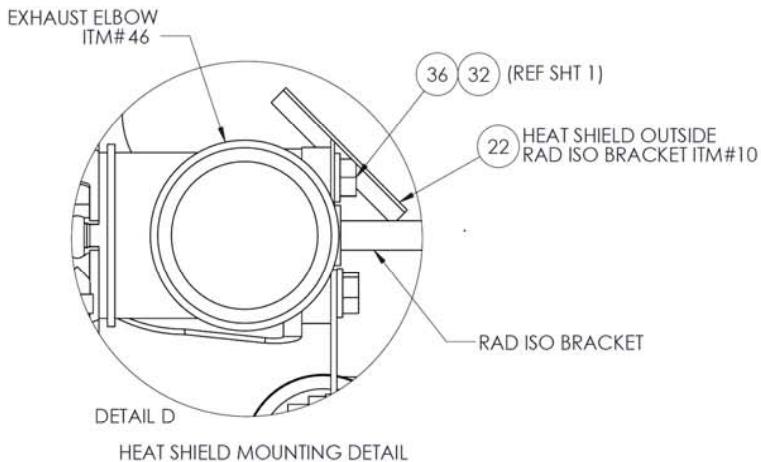
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-082	AS - G-DR ENG W/ETHER START
2	1	037-50-088	AS - GENSET DETAILS - S2 ENG
3	1	037-50-148	AS - HYD PUMP DRIVE ADAPTER UPGRADE KIT - S2 ENG
4	1	037-60-020	GP - CRANE HYD PUMP - S2 ENG

AS - G-DR ENG W/ETHER START (0.87:1 FAN DR)	037-50-082
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See Appendix A,  
Customized Parts Catalog for  
Engine Model QSB6.7 CM850







VIEW FROM FUEL PUMP SIDE  
(RADIATOR HIDDEN)

NOTE: ENGINE AND ISOLATOR BOLT-TORQUES AS PER ITM BALLOON NOTES. USE THREAD LOCK ON ALL BOLTS.  
TIGHTEN BOLTS & NUTS SNUG AGAINST WASHERS BEFORE TORQUING

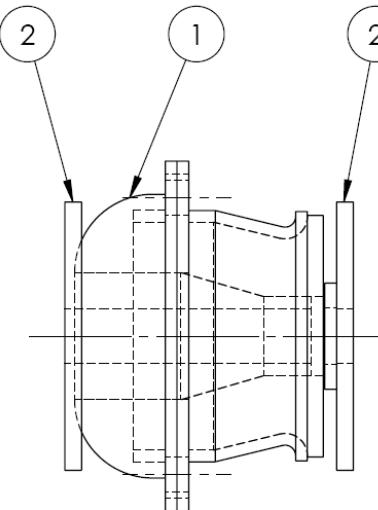
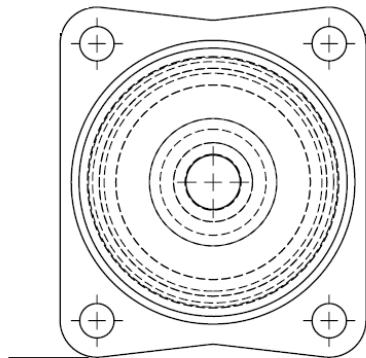
STABILIZER ISOLATORS--ITM 3 --MUST NOT SUPPORT ANY LOAD IN RESTING POSITION. FOLLOW PROCEDURES LISTED BELOW. FAILURE TO FOLLOW THESE PROCEDURES COULD RESULT IN PREMATURE FAILURE OF THE RADIATOR CORE.

- 1) INSTALL RADIATOR ONTO SUPPORT ISOLATORS (ITM 2 ), TORQUE ITM # 31 TO 36.9 lb-ft (50 Nm).
- 2) CENTER AND ALIGN FAN-SHROUD AND GUARD ON FAN, ENSURE ADEQUATE CLEARANCE TO FAN FRONT TO BACK AND ALL-WAY-ROUND.
- 3) INSTALL ITM 10 & 11 (ENGINE BRACKETS) ONTO ENGINE; TORQUE BOLTS ITM 36 & ITM 37 AS PER BALLOON NOTES.
- 4) TEMPORARILY INSTALL ITM 8 (RAD STAY) LOOSELY ONTO RADIATOR.
- 5) INSTALL ITM 3 (ISOLATOR) ONTO # 8 , # 12 & # 15 (ENGINE STAY), TORQUE ITM AS NOTED. DO NOT TIGHTEN STAY ONTO RAD OR ENGINE BRKTS.
- 6) CONNECT ALL RAD-HOSES AND FILL RADIATOR TO CAPACITY ( 7.5 USGAL / 28.4 l).
- 7) COMPLETELY ALIGN ITM 8 (RAD STAY) WITH RADIATOR AND ITM 12 & 15 WITH # 10 & 11 (ENGINE BRACKETS) SO THAT ITM 3 (ISOLATOR) IS NOT DEFORMED IN ANY WAY; THREAD LOCK AND TORQUE 1/2-IN BOLTS TO 75 lb-ft (105 Nm), ENSURING THAT RADIATOR STUDS DO NOT DEFORM, AND THAT RADIATOR IS LEVEL ON ISOLATORS.
- 8) TORQUE ALL OTHER BOLTS AS PER CAT TORQUES, UNLESS OTHERWISE SPECIFIED.
- 9) RECHECK FAN CLEARANCE BETWEEN SHROUD AND GUARD.

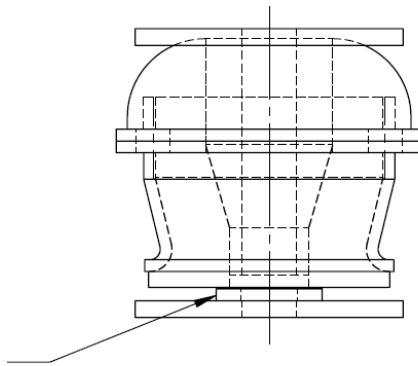
AS - GENSET DETAILS - S2 ENG				037-50-088
ITEM	QTY	PART NO	DESCRIPTION	
1	6	037-05-020	AS - VIBRATION ISOLATOR - PLT MOUNT SQ	
2	2	037-05-021	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND	
3	2	037-05-022	AS - VIBRATION ISOLATOR - 2-PIECE CENTER BONDED	
4	1	037-09-011	GP - DECALS - S2	
5	1	037-40-032	GP - WIRING, GENSET, 60/50 Hz 480/415 VAC - S2 ENG	
6	1	037-40-033	GP - WIRING GENSET CONT/24VDC CHARGE - S2 ENG	
7	1	037-42-033	GP - GENSET ENG HOSE - S2 ENG	
8	2	037-50-031	AS - RAD ISO STAY	
9	1	037-50-090	AS - ENGINE/RADIATOR BRKT - S2 ENG	
10	1	037-50-092	AS - RAD ISO STABILIZER EXHAUST BRKT - S2 ENG	
11	1	037-50-094	AS - RAD ISO STABILIZER FUEL PUMP BRKT - S2 ENG	
12	1	037-50-097	AS - RAD ISO STAY ENG BRKT - S2 ENG	
13	1	037-50-108	GP - RADIATOR/CAC	
14	1	037-50-111	HDWM - FAN ENG COOLING - S2 ENG	
15	1	037-50-116	AS - RAD ISO STAY ENG BRKT - S2 ENG	
16	1	037-50-118	AS - BELLHOUSE ROLL CONTROL BRKT - S2 ENG	
17	2	037-50-132	PLT - RAD ISOLATOR SPACER - S2 ENG	
18	1	037-50-134	GP - AIR CLEANER - S2 ENG	
19	1	037-50-143	GP - ETHER START	
20	1	037-50-146	AS - REMOTE FUEL FILTER	
21	1	037-50-158	GP - ALTERNATOR	
22	1	037-71-100	MOD - CLIPPED HEAT SHIELD	
23	4	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
24	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
25	6	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
26	4	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"	
27	8	CAT# 5S-7379	HDW - BOLT, HEX HD-PLATED 3/8-16UNC x 7/8 LNG	

AS - GENSET DETAILS - S2 ENG				037-50-088
ITEM	QTY	PART NO	DESCRIPTION	
28	4	CAT# 5S-7383	BOLT - 3/8 -16 UNC X 1.75 LG HEX	
29	2	CAT# 7X-0328	HDW - BOLT - 1/2-13 UNC x 3 1/2" HEX	
30	6	CAT# 7X-0356	CAPSCREW-HEX HD-PLATED 5/8-11 X 5 LNG	
31	2	CAT# 7X-0448	HDW - NUT 5/8-11 ZINC PLATED HARDENED	
32	25	CAT# 8T-4121	HDW - WASHER M10	
33	20	CAT# 8T-4122	HDW - WASHER 5/8	
34	4	CAT# 8T-4172	HDW - BOLT M10X1.5X80	
35	4	CAT# 8T-4184	HDW - BOLT M12X1.75X45	
36	14	CAT# 8T-4186	HEX HD BOLT M10 X 1.5 X 40 LNG PLATED	
37	3	CAT# 8T-4195	HDW - BOLT M10X1.5X30	
38	28	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
39	2	CAT# 8T-4835	HDW - BOLT - 1/2-13 UNC X 2.0 HEX	
40	40	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
41	16	CAT# 8T-4956	HDW - BOLT M12X1.75X35	
42	2	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
43	24	CAT# 9B-7237	BOLT - 3/8 -16 UNC X 1.25 LG HEX	
44	*	100289	(QTY 1) HDWM - V-BAND CLAMP	
45	*	100290	(QTY 1) HDWM - FAN SPACER	
46	*	100319	(QTY 1) HDWM - EXHAUST ELBOW	
47	*	100327	(QTY 1) HDWM - TURBO EXIT ELBOW	
48	*	100328	(QTY 1) HDWM - V-BAND CLAMP	
49	*	100329	(QTY 1) HDWM - TURBO HOUSING MOUNTING BRACKET	
50	1	PARK# 209P-12-8	FF - BRASS REDUCER NPT 3/4 - 1/2	

\* SHOWN FOR PARTS ONLY (C/W ENGINE)



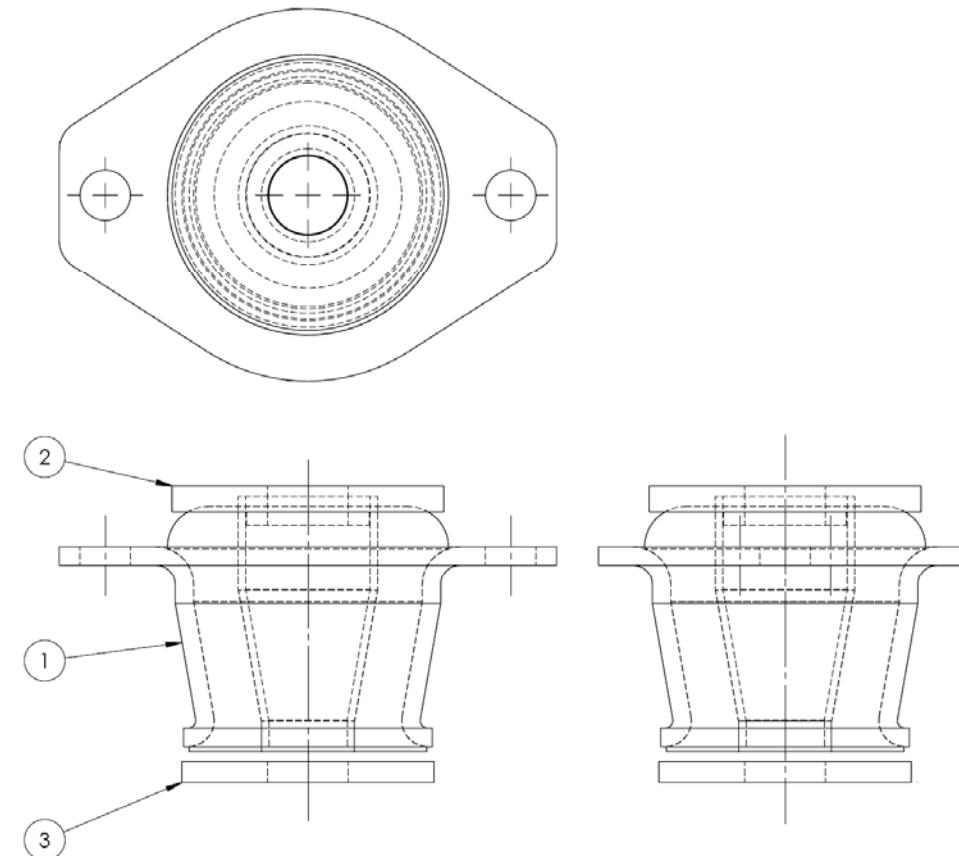
NOTE: TORQUE CTR  
ISOLATOR-FIXING BOLTS  
TO 99.6 lb-ft (135 Nm)



SPACER WASHER  
SHOWN FOR REF  
ONLY.

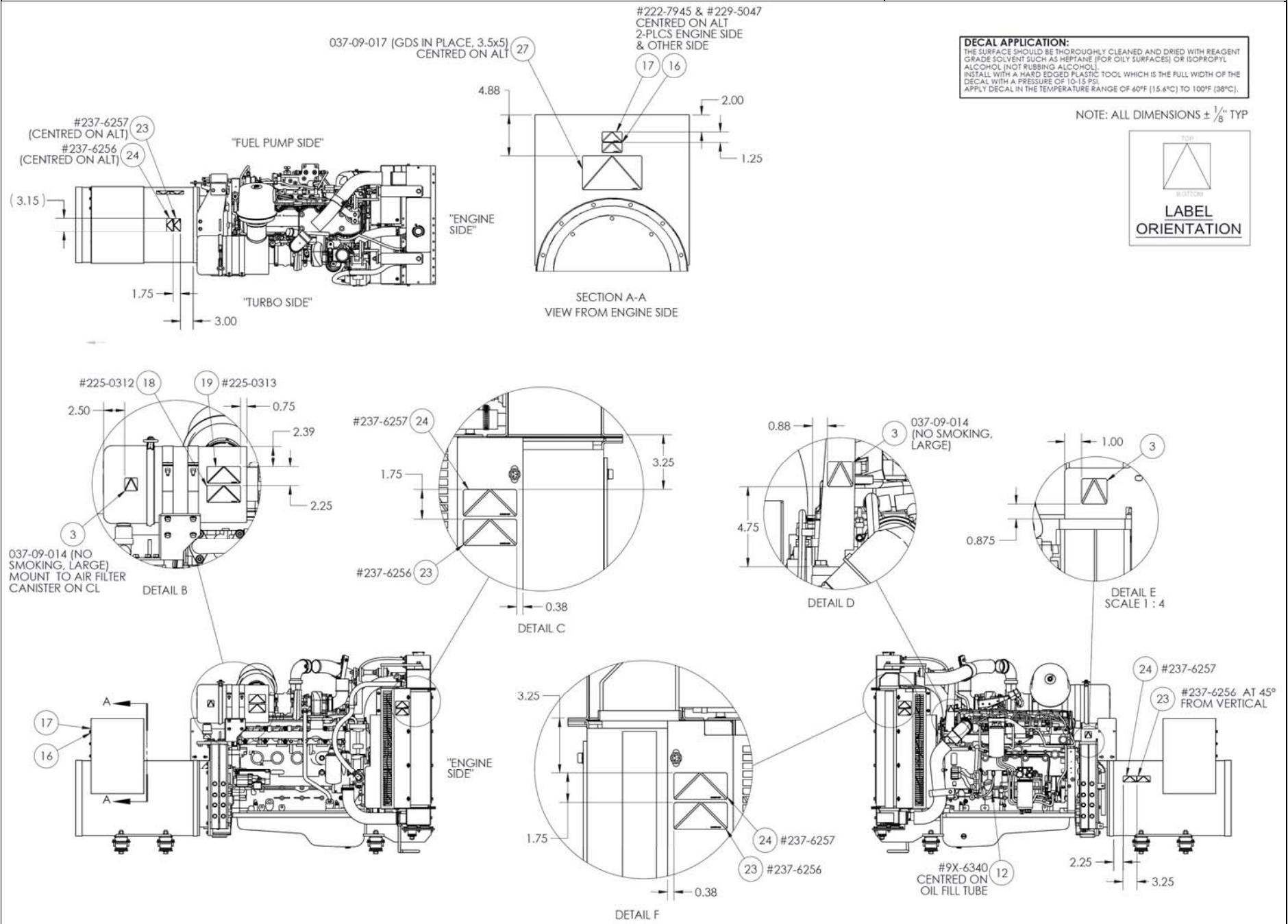
NOTE: OVERLOAD WASHERS  
SHOWN AT LOADED HEIGHT.

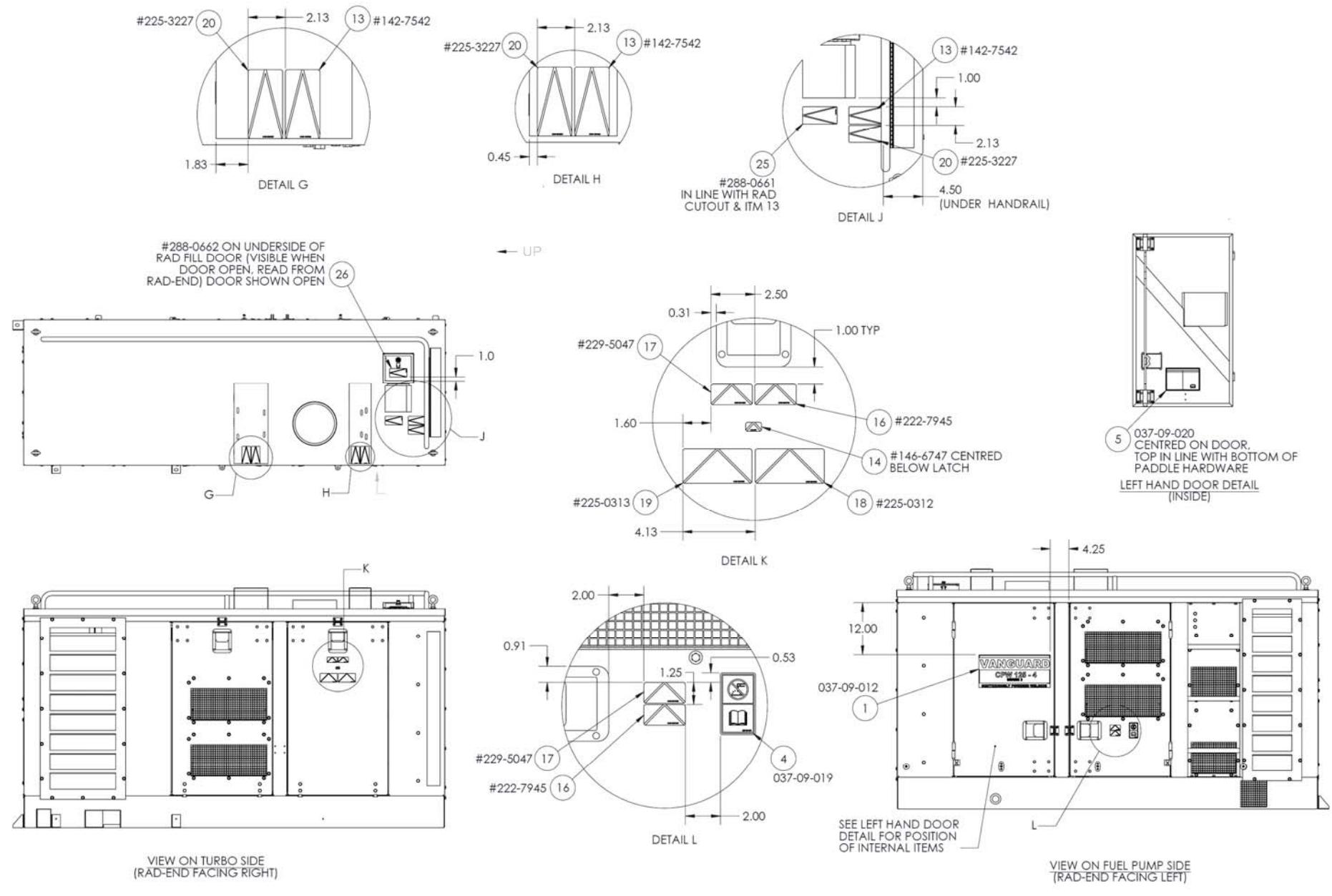
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-45-001	HDWM - VIBRATION ISOLATOR - PLATE MOUNT SQUARE
2	2	037-45-002	HDWM - OVERLOAD/REBOUND WASHER

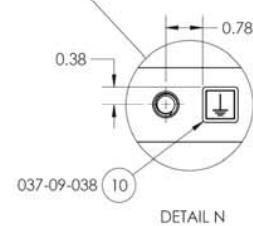
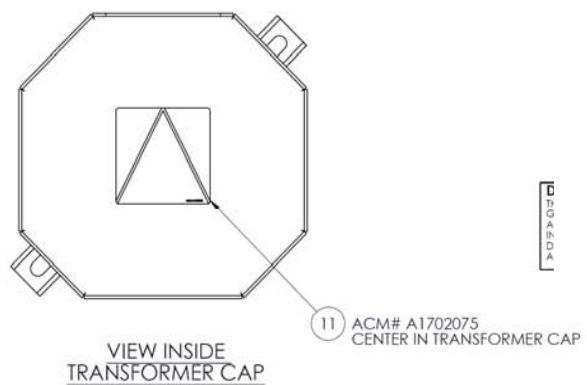
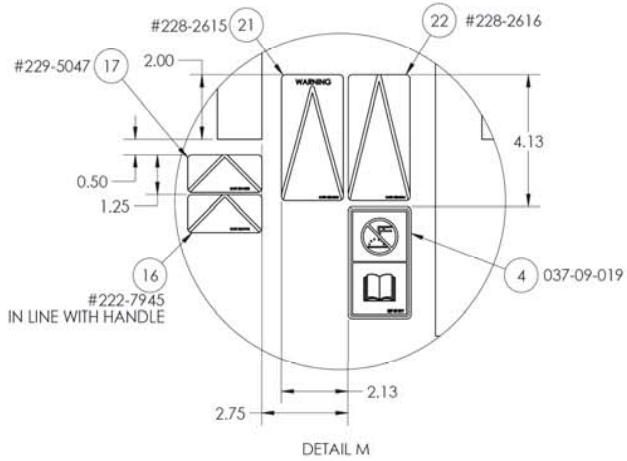
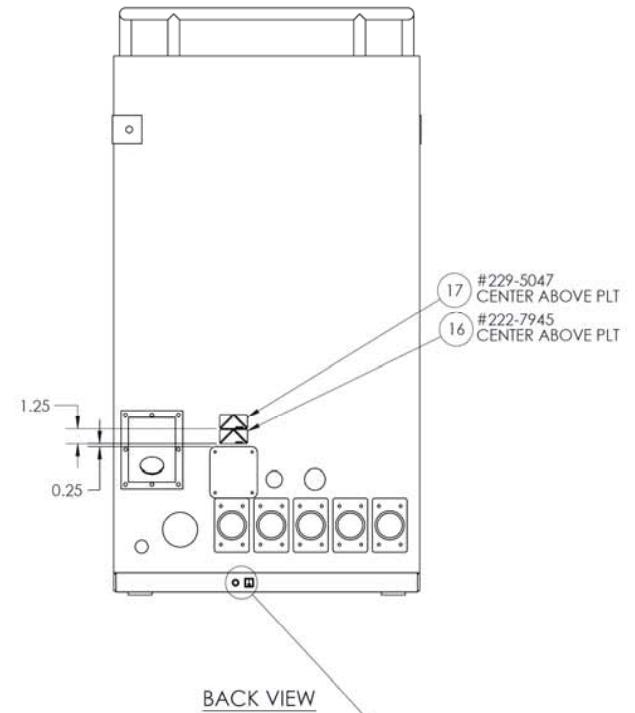
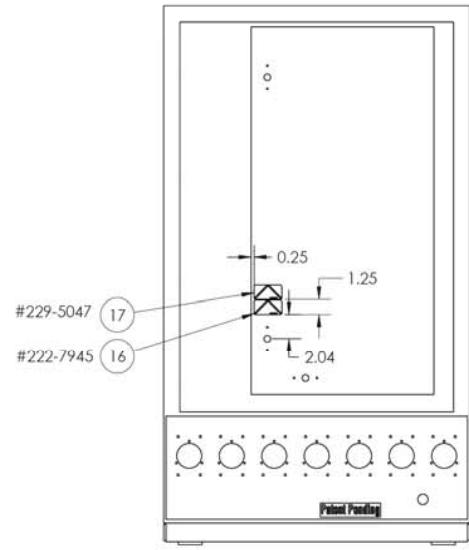
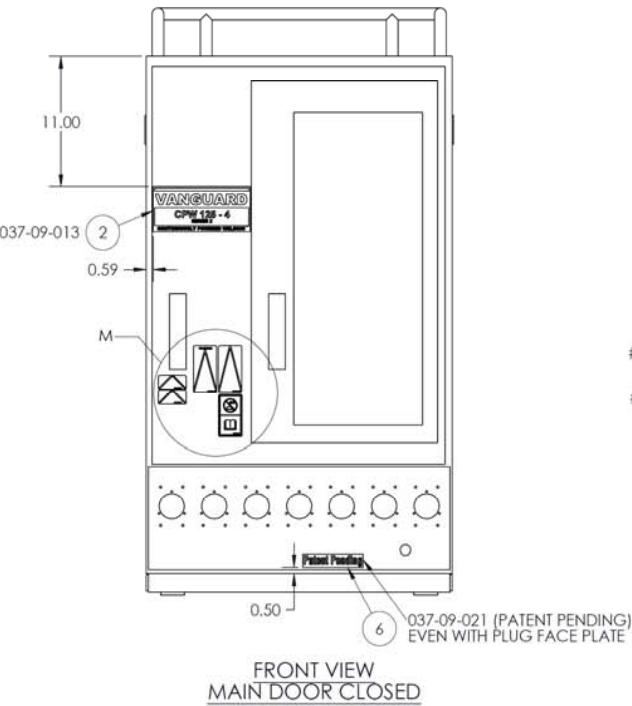


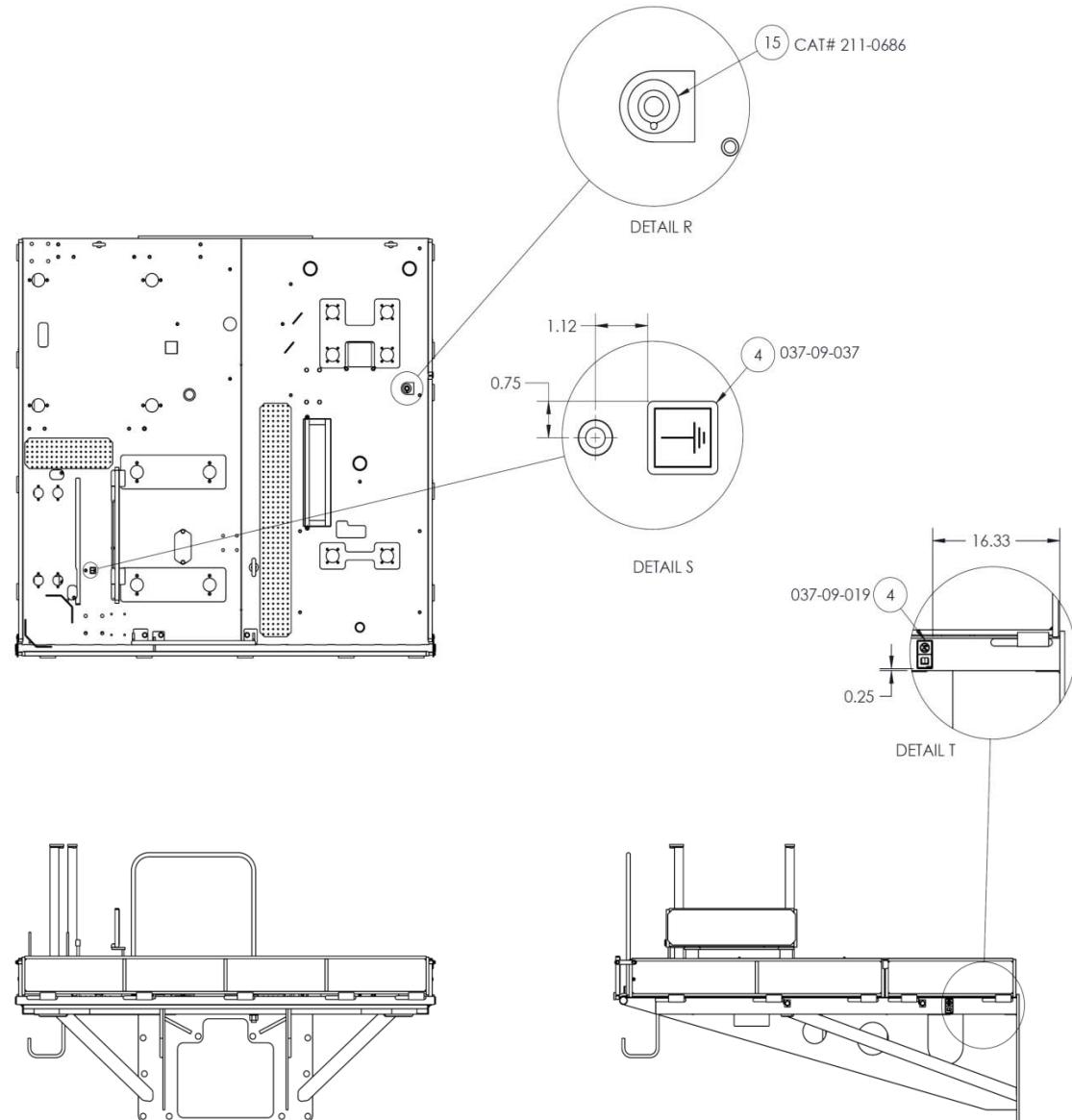
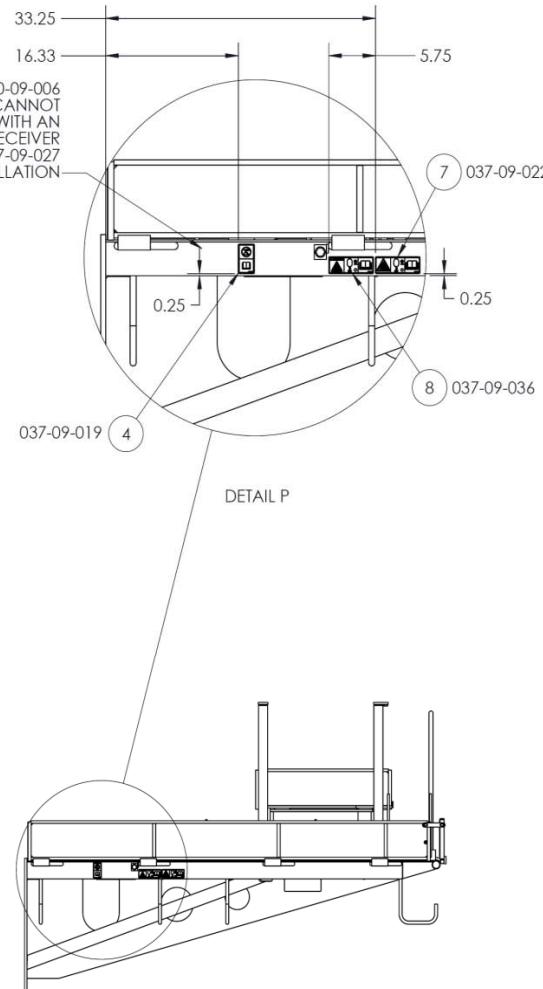
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-45-003	HDWM - VIBRATION ISOLATOR - PLATE MOUNT DIAMOND
2	1	037-45-004	HDWM - OVERLOAD WASHER
3	1	037-45-005	HDWM - REBOUND WASHER

NOTES:

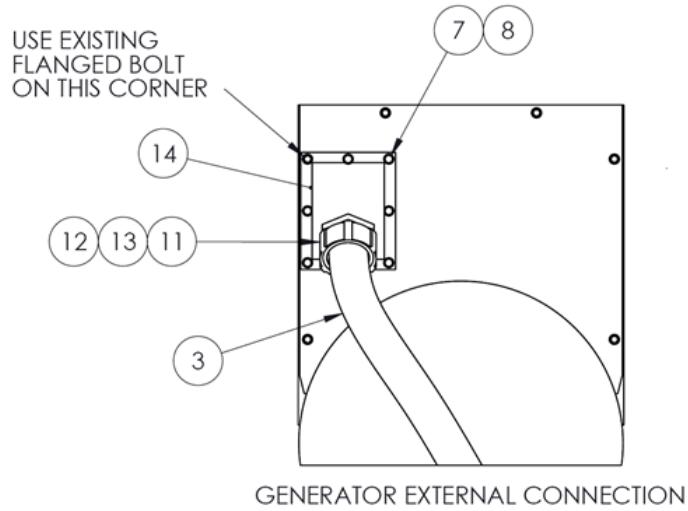




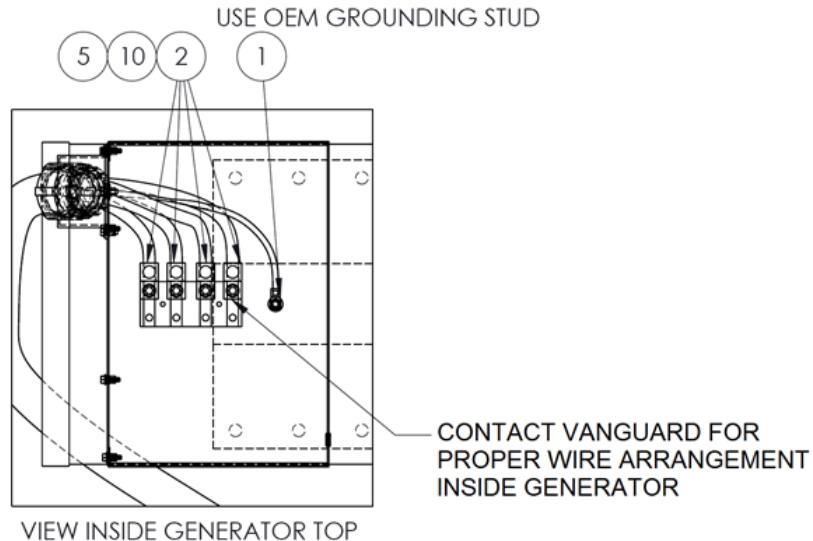
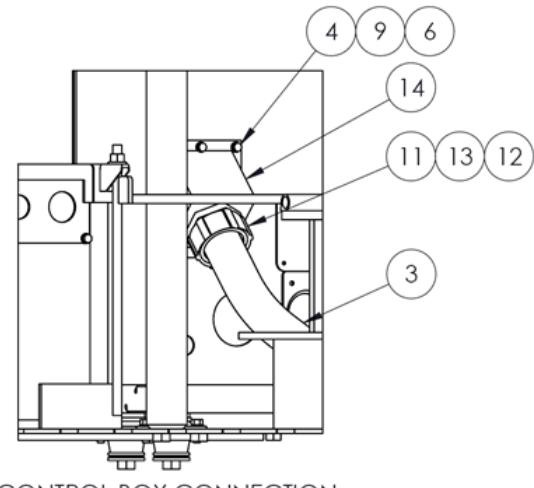
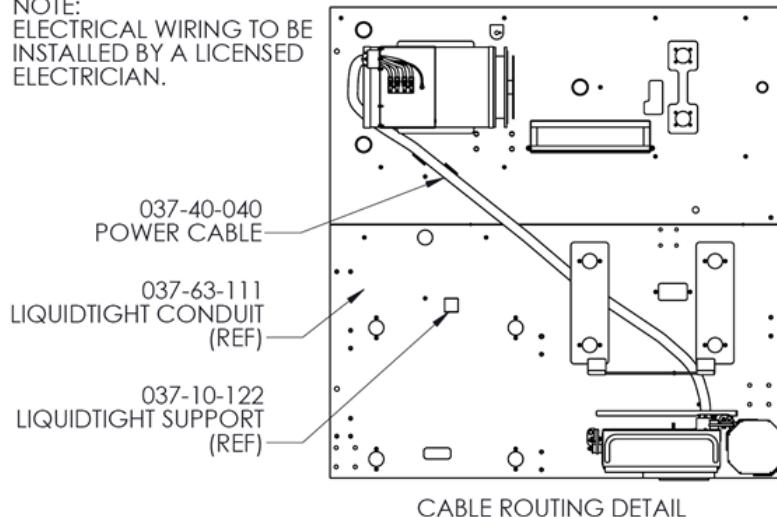




GP - DECALS - S2				037-09-011
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-09-012	FILM - PRODUCT MARK, 16-IN CPW125-4 - SERIES 2	
2	1	037-09-013	FILM - PRODUCT MARK, 8-IN CPW125-4 - SERIES 2	
3	3	037-09-014	FILM - PICTOGRAM (NO SMOKING) LARGE	
4	4	037-09-019	FILM - NOTICE DO NOT WELD, READ OPERATORS MANUAL	
5	1	037-09-020	FILM - OIL CHANGE INTERVALS - S2 ENG	
6	1	037-09-021	FILM - VEI MARK - PATENT PENDING	
7	1	037-09-022	FILM - EXPLOSION HAZARD, DRAIN TANK DAILY CONSULT OPERATORS MANUAL	
8	1	037-09-036	FILM - (US) EXPLOSION HAZARD, DRAIN TANK DAILY CONSULT OPERATORS MANUAL	
9	1	037-09-037	FILM - EARTH GROUND 1.5"x1.5"	
10	3	037-09-038	FILM - EARTH GND 0.75"x0.75"	
11	1	ACM# A1702075	FILM - WIRING DIAGRAM XTR1 (PART OF TRANSFORMER)	
12	1	CAT# 9X-6340	FILM - INSTRUCTION (ENGINE OIL)	
13	3	CAT# 142-7542	FILM - WARNING (HOT SURFACE)	
14	1	CAT# 146-6747	FILM - (24-VOLT)	
15	1	CAT# 211-0686	FILM - (IGNITION SW, ON BATTERY DISCONNECT)	
16	7	CAT# 222-7945	FILM-WARNING (SHOCK HAZARD)	
17	7	CAT# 224-9828	FILM-WARNING (SHOCK HAZARD, U.S.)	
18	2	CAT# 225-0312	FILM - WARNING (JUMP START INTL)	
19	2	CAT# 225-0313	FILM - WARNING (JUMP START, U.S.)	
20	3	CAT# 225-3227	FILM - WARNING (HOT SURFACE, U.S.)	
21	1	CAT# 228-2615	FILM - WARNING (UNIVERSAL, READ OMM U.S.)	
22	1	CAT# 228-2616	FILM - WARNING (UNIVERSAL, READ OMM)	
23	4	CAT# 237-6256	FILM-WARNING (FAN, DON'T TOUCH INTL)	
24	4	CAT# 237-6257	FILM-WARNING (FAN, DON'T TOUCH, U.S.)	
25	1	CAT# 288-0661	FILM - WARNING (HOT FLUID UND PRESS, READ OMM, U.S.)	
26	1	CAT# 288-0662	FILM - WARNING (HOT FLUID UND PRESS, READ OMM)	
27	1	100288	FILM- DANGER (HIGH VOLTAGE) C/W ALTERNATOR	



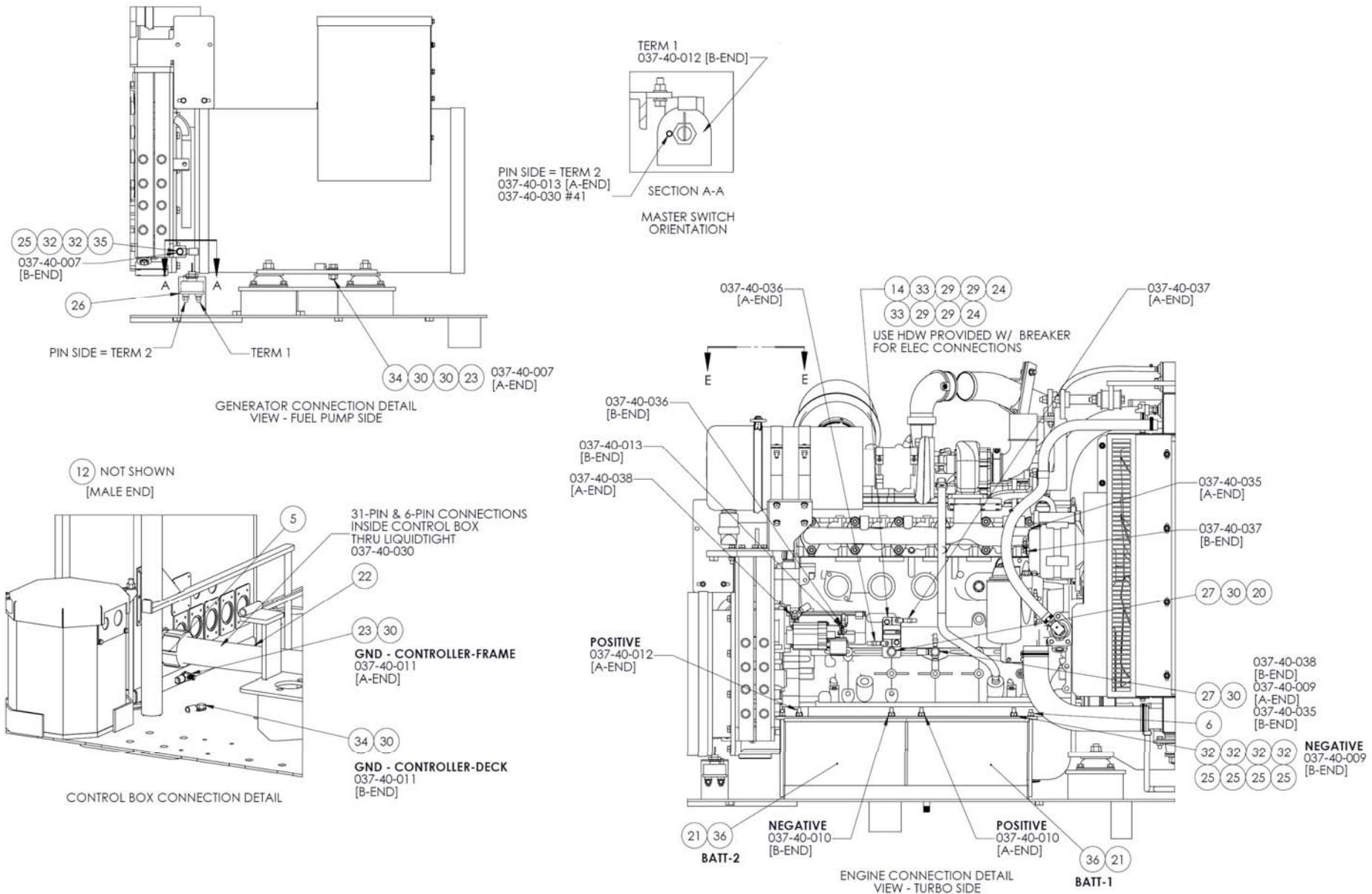
NOTE:  
ELECTRICAL WIRING TO BE  
INSTALLED BY A LICENSED  
ELECTRICIAN.

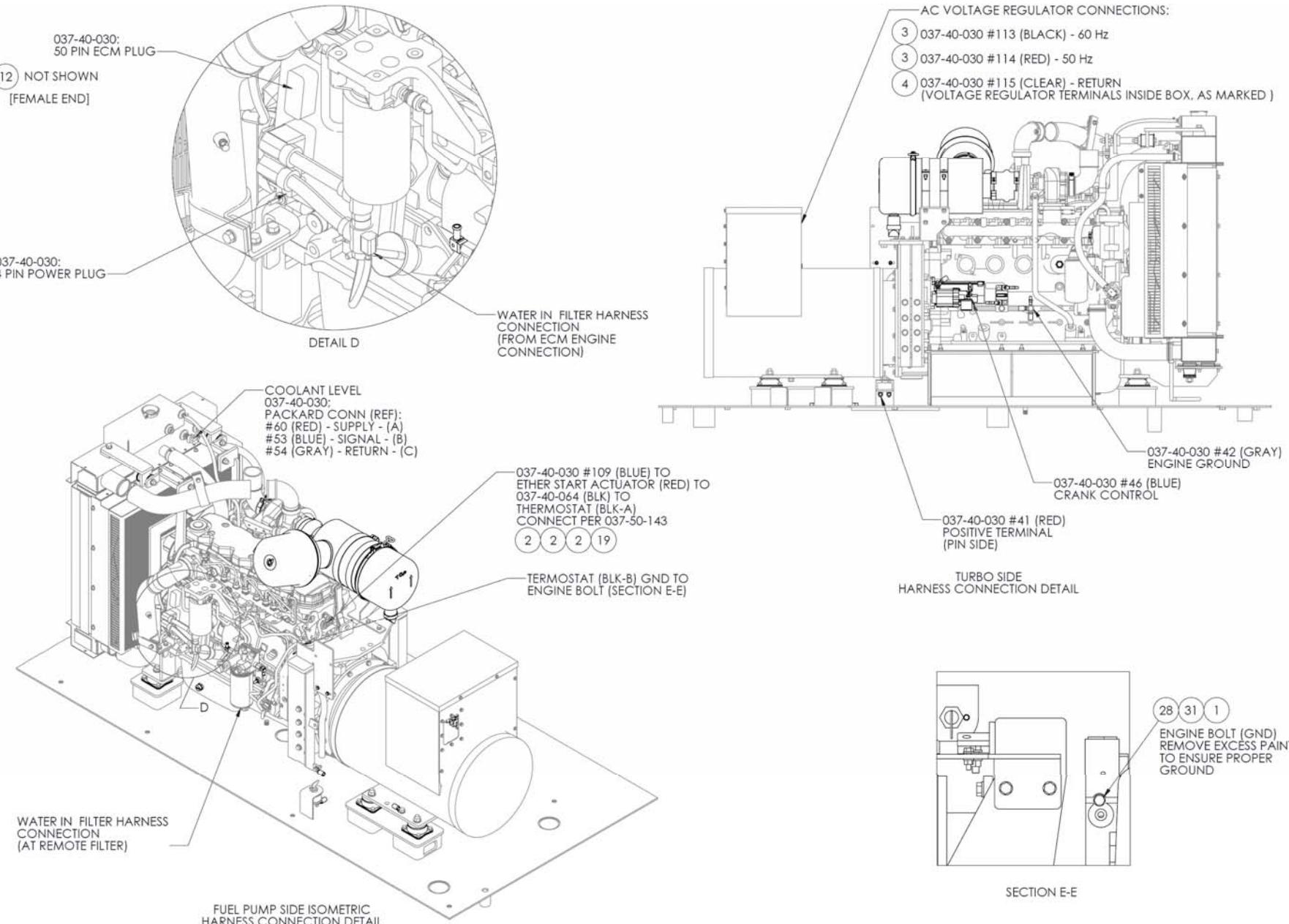


MAIN POWER CONNECTIONS:  
T0 = N = WHITE  
T1 = L1 = RED  
T2 = L2 = BLACK  
T3 = L3 = ORANGE

GP - WIRING, GENSET, 60/50 Hz 480/415 VAC - S2 ENG				037-40-032
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-40-002	ELEC - BOLT CONNECTOR	
2	4	006-40-003	ELEC - BOLT CONNECTOR	
3	*1	037-40-040	ELEC - GENSET CABLE	
4	*8	CAT# 1H-3337	HDW - BOLT 1/4-20 x 7/8"	
5	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
6	*8	CAT# 3E-9865	HDW - LOCKNUT - 1/4"-20UNC PLTD, HARD, NYLON	
7	7	CAT# 8T-4138	HDW - BOLT M6X1X20	
8	7	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
9	*8	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
10	4	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
11	*	100259	(QTY 2) ELEC - 2" LIQUIDTIGHT STRAIN RELIEF CONNECTOR	
12	*	100285	(QTY 2) ELEC - PLASTIC BUSHING 2"	
13	*	100286	(QTY 2) ELEC - LOCK NUT 2"	
14	*	100239	ELEC - 2" LIQUIDTIGHT 45 DEG ADAPTER	

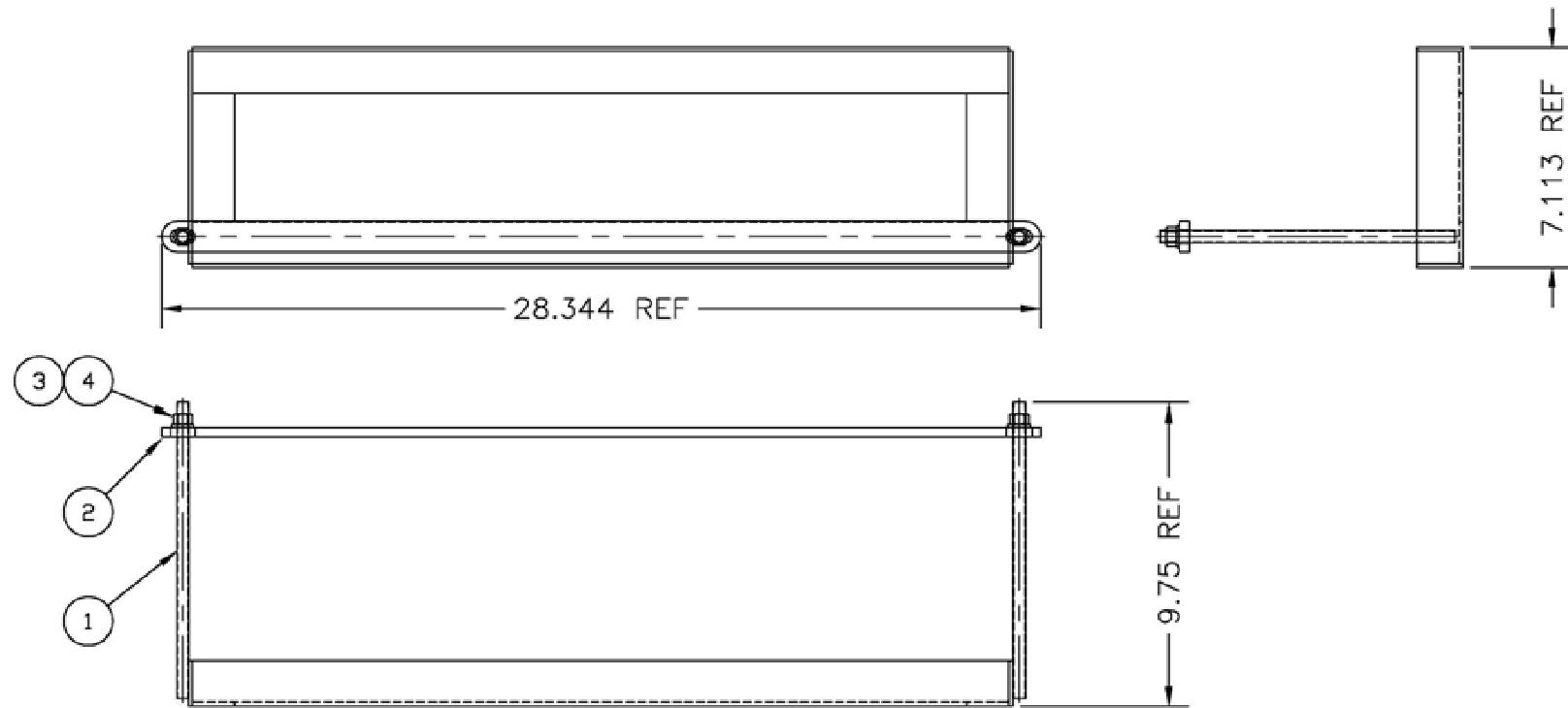
\*SHOWN FOR PARTS ONLY (C/W CONTROL BOX)





GP – WIRING GENSET CONT/ 24VDC CHARGE - S2 ENG				037-40-033
ITEM	QTY	PART NO	DESCRIPTION	
1	1	001-40-035	ELEC-RING TERM	
2	3	001-40-037	ELEC - BUTT CONN	
3	2	001-40-038	ELEC-F-PUSH TERM 0.25	
4	1	001-40-039	ELEC-M-PUSH TERM 0.25	
5	1	006-40-001	ELEC - 2-1/2" LIQUIDTIGHT CONNECTOR	
6	1	037-10-068	AS - BATTERY BOX 2x GROUP 31 BATTERIES	
7	1	037-40-007	AS - WIRE - GENERATOR - ENGINE GND	
8	1	037-40-009	AS - WIRE - BATT1 - GND	
9	1	037-40-010	AS - WIRE - BATT1 - BATT2	
10	1	037-40-011	AS - WIRE - CONTROL BOX - DECK GND	
11	1	037-40-012	AS - WIRE - MASTER 24V FEED	
12	1	037-40-013	AS - WIRE - MAIN 24V FEED	
13	1	037-40-030	EM - ENGINE HARNESS - S2 ENG	
14	1	037-40-034	ELEC - BREAKER S2 ENG ALT	
15	1	037-40-035	AS - WIRE - 24V ALT GND	
16	1	037-40-036	AS - WIRE - 24V SUPPLY CHARGE	
17	1	037-40-037	AS - WIRE - 24V ALT CHARGE	
18	1	037-40-038	AS - WIRE - STARTER - GND	
19	1	037-40-064	ELEC - WIRE-BLK	
20	1	037-50-035	PLT - DC ALT EXCITATION CIRCUIT BREAKER BRKT	
21	2	037-50-075	HDWM - BATTERY FRAME LINER	
22	1	037-63-111	ELEC - FLEXIBLE CONDUIT	
23	2	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
24	2	CAT# 2D-6235	NUT - LOCK 1/4-20NC	
25	5	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
26	1	CAT# 7N-0718	ELEC - SWITCH SHUT OFF	
27	2	CAT# 8T-4192	HDW - BOLT M12X1.75X25	
28	1	CAT# 8T-4200	HDW - BOLT M8X1.25X16	
29	4	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	

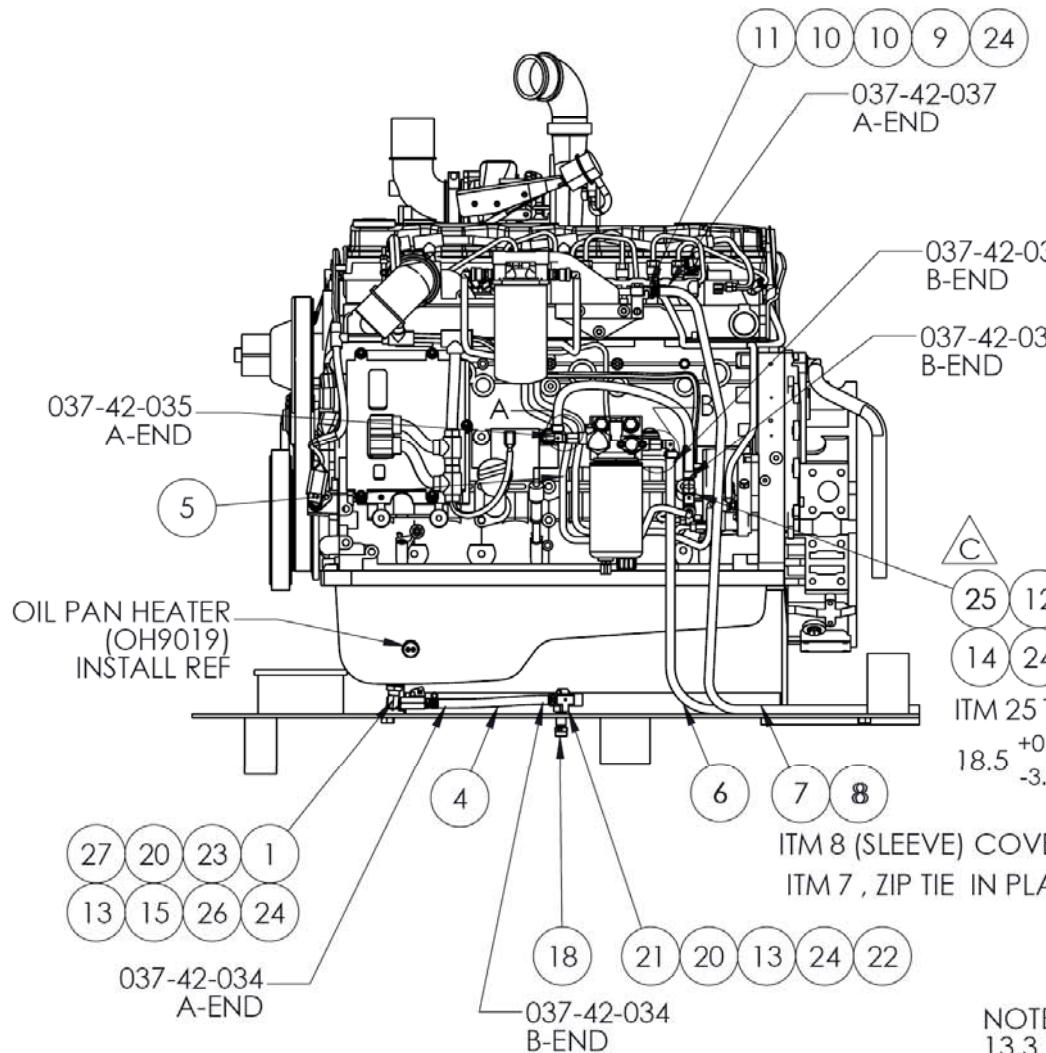
GP - WIRING GENSET CONT/24VDC CHARGE - S2 ENG				037-40-033
ITEM	QTY	PART NO	DESCRIPTION	
30	1	CAT# 8T-4224	HDW - WASHER M8	
31	6	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
32	2	CAT# 8T-8908	HDW - BOLT 1/4-20 x 1"	
33	2	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
34	1	CAT# 9B-7237	BOLT - 3/8 -16 UNC X 1.25 LG HEX	
35	2	CAT# 9X-3404	ELEC - BATTERY GP31-12V-99 CCA-100AMP HR CAP @ 20 HRS	



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-10-074	AS - BATTERY BOX 2x GROUP 31
2	1	037-10-084	PLT - BATTERY BOX HOLD DOWN
3	2	CAT# 2K-4973	NUT - SELF-LOCKING 3/8-16UNC HARDENED
4	2	CAT# 8T-4896	WASHER 3/8 HARD PLATED

**GP - GENSET ENG HOSE - S2 ENG**

037-42-033



0.125 TYP  
(FOR 3/8"  
HOSE)

5

24

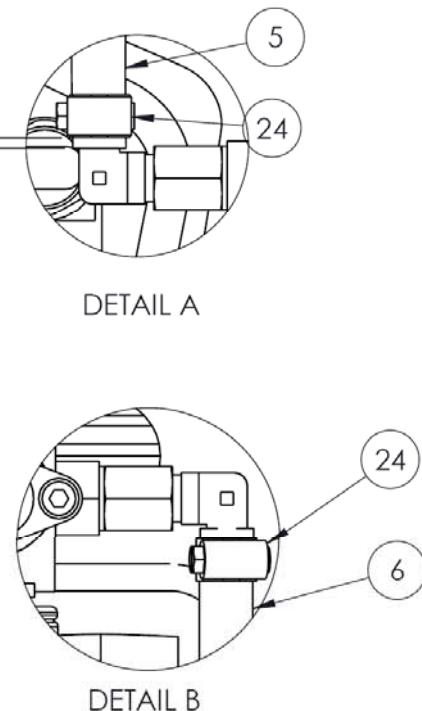
DETAIL A

## DETAIL A

QUE TO  
ft (25  $\frac{+0.0}{-5.0}$  N-m)

ITEM 8 (SLEEVE) COVERS ITEM 6 &  
ITEM 7, ZIP TIE IN PLACE

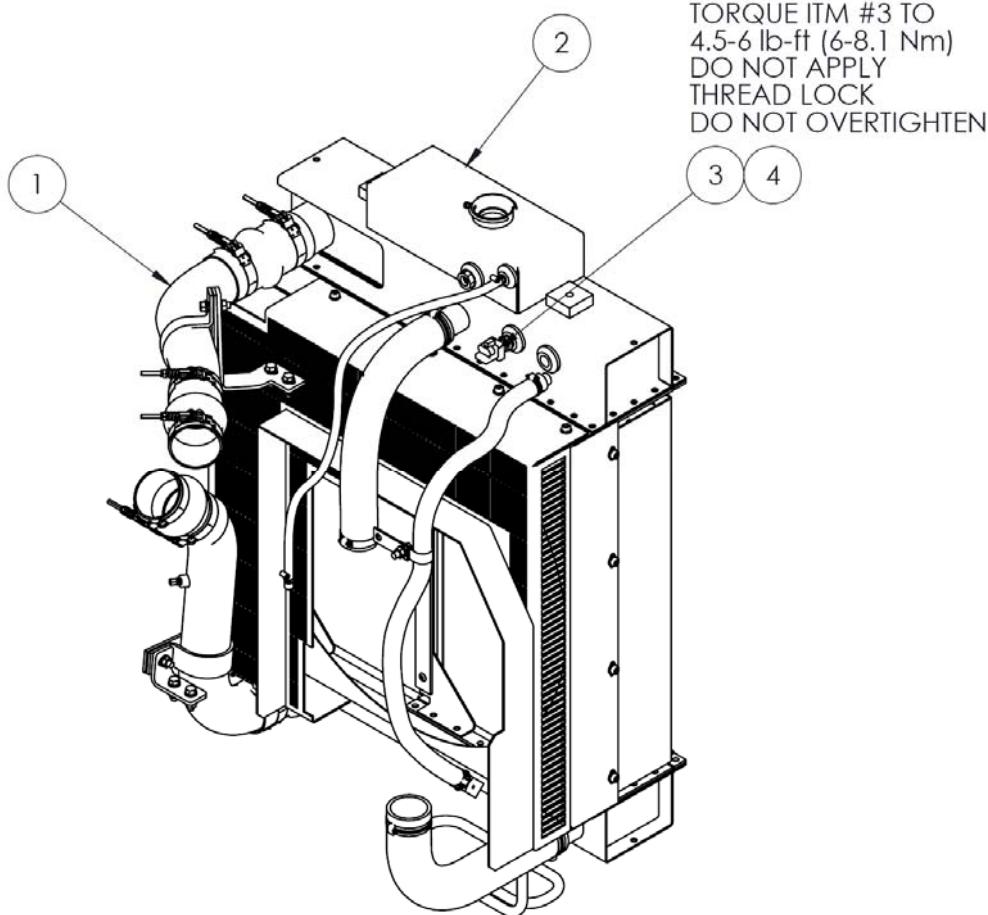
NOTE: TIGHTEN HOSE CLAMPS TO  
13.3 lb-in (1.5 N-m) TYP



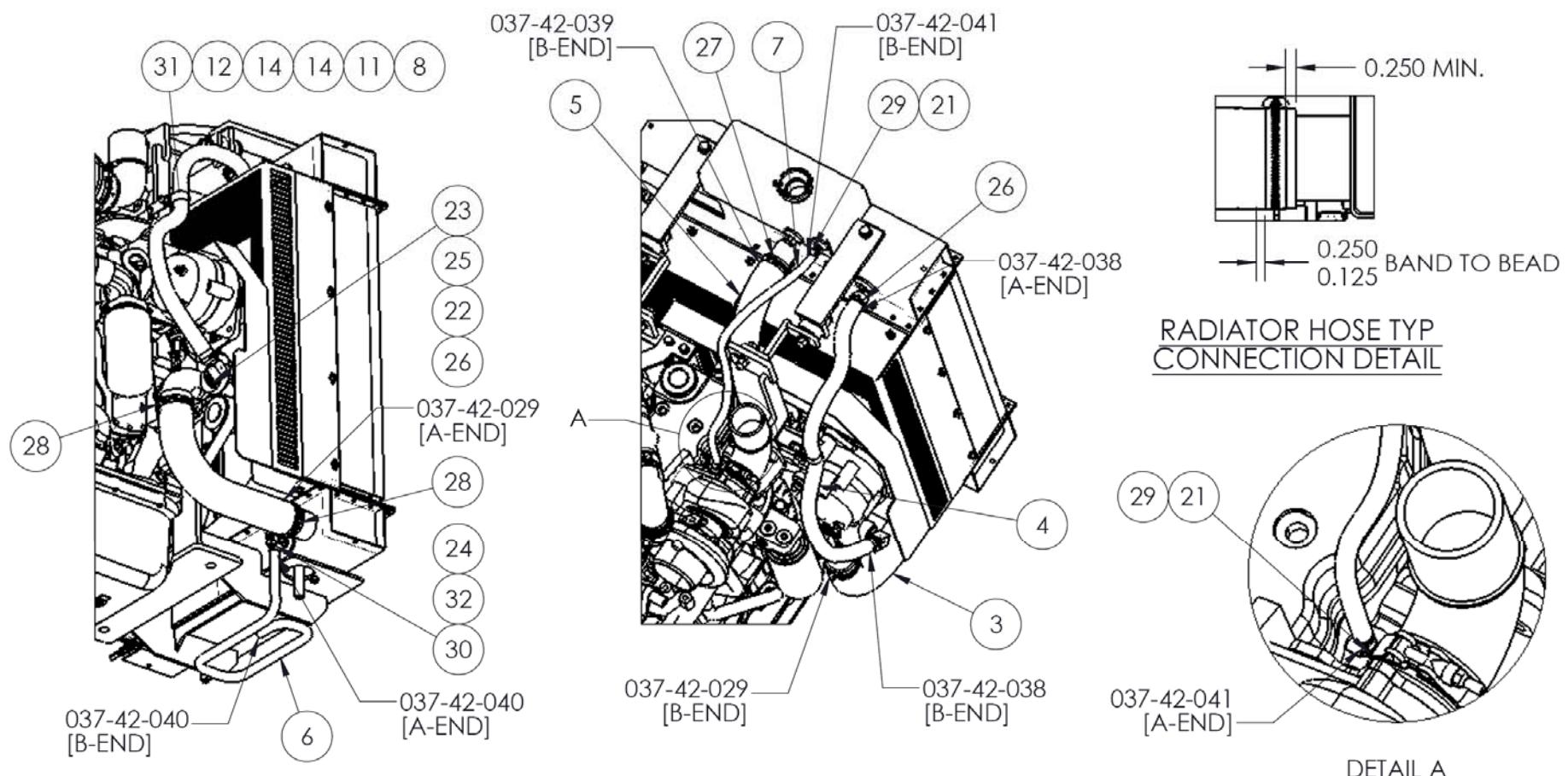
## DETAIL B

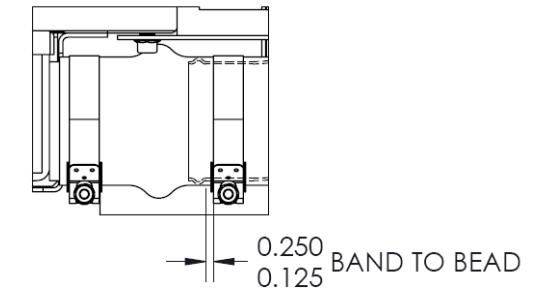
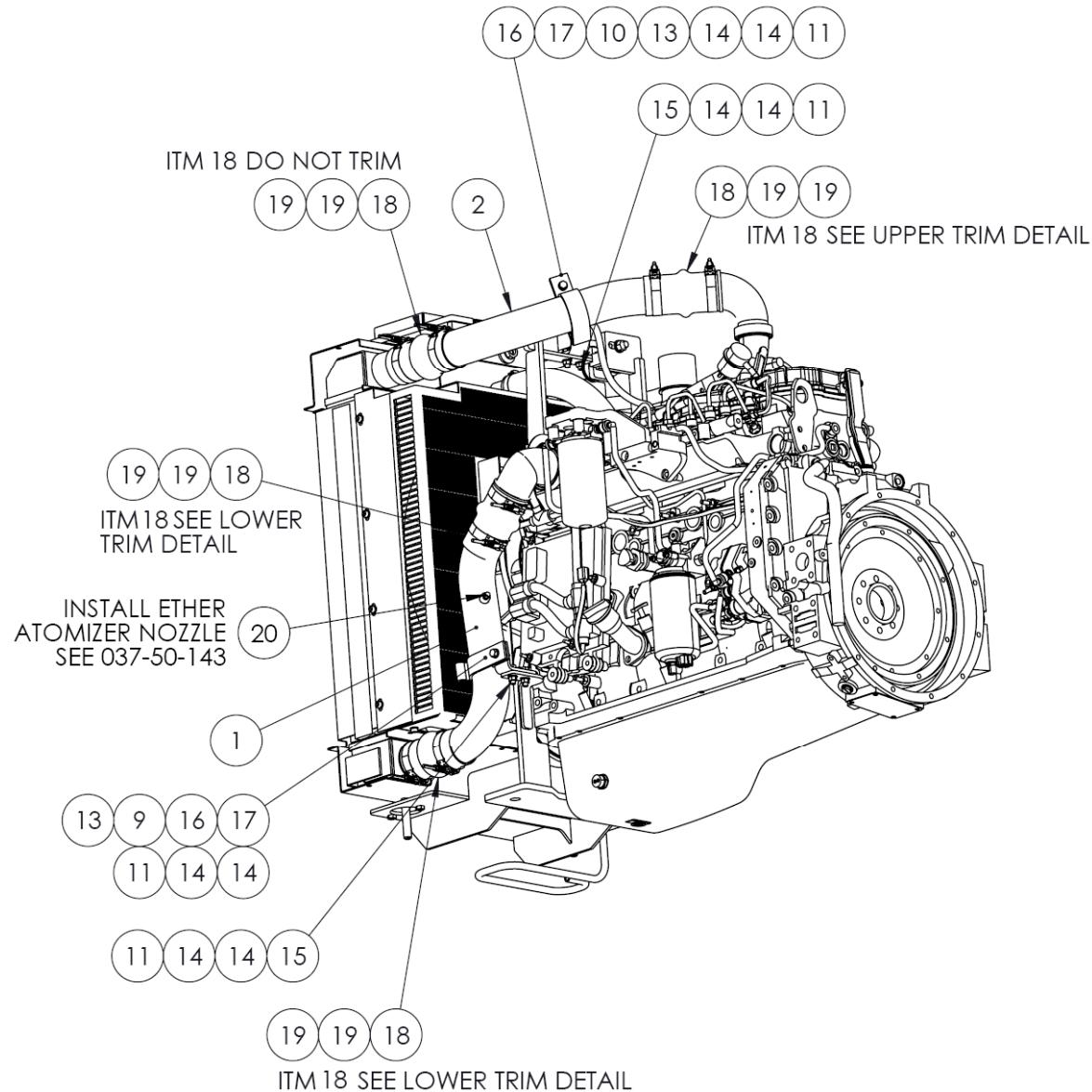
GP - GENSET ENG HOSE - S2 ENG				037-42-033
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-43-002	FF - 90 EL M METRIC PARALLEL THREAD M22 / M JIC -8	
2	1	006-43-010	FF - JIC FSW/NPT M -4/-4 BRASS	
3	1	006-43-011	FF - JIC FSW FM/NPT M -6/-6 BRASS	
4	1	037-42-034	FH - HOSE DRAIN FOR ENGINE OIL	
5	1	037-42-035	FH - HOSE FUEL FILTER OUT	
6	1	037-42-036	FH - HOSE FUEL SUPPLY LINE	
7	1	037-42-037	FH - HOSE FUEL RETURN LINE	
8	1	037-42-050	HDWM - NYLON SLEEVE - 70IN	
9	*	100331	(QTY 1) FF - BANJO CONNECTOR SCREW M12	
10	*	100332	(QTY 2) FF - BANJO SEALING WASHER	
11	*	100318	(QTY 1) FF - BANJO CONNECTOR - 3/8" HOSE BARB	
12	1	100500	FF - BONDED SEAL, METRIC, 12MM	
13	4	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD - 3/8" NPT MALE	
14	1	PARK# 179HB-6-4	FF - 45 DEG BRASS 3/8" BEADED HOSE BARB - 1/4" NPTM	
15	1	PARK# 2-114-N0552	FF - SEAL METRIC M18	
16	1	PARK# 207P-6	FF - NPT FEMALE UNION -6	
17	1	PARK# 208P-6-4	FF - NPT FEMALE UNION -6/-4	
18	1	PARK# 213P-6	FF - BRASS HEX CAP FM NPT 3/8"	
19	1	PARK# 2202P-4-4	FF - BRASS 90 DEG STREET ELBOW 1/4" NPT	
20	2	PARK# 2202P-6-6	FF - BRASS 90 DEG STREET ELBOW 3/8" NPT	
21	1	PARK# 2203P-6	FF - BRASS TEE FM 3/8" NPT	
22	1	PARK# 3-8-HHP-S	FF - HOLLOW HEX PIPE PLUG 3/8 NPT	
23	1	PARK# 8 F6X-S	FF - ADAPTOR - SW JIC 37 FM/NPT M -8/-6	
24	8	PARK# 97HC-6	FF - CLAMP HOSE 3/8"	
25	1	PARK# M12-1/4F8HG-S	FF-ISO9974 M12x1.5-1/4-18 NPTF	
26	1	PARK# M18RR	FF - METRIC RETAINING RING M18	
27	1	PARK# MV609-6	FF - BALL VALVE NPT FM 3/8"	

\* SHOWN FOR PARTS ONLY (C/W ENGINE)



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-42-027	GP - HOSE - RADIATOR/CAC
2	1	037-50-160	AS - MODIFIED RADIATOR/CAC
3	1	100330	(QTY 1) HDWM - PROBE - COOLANT LEVEL
4	1	PARK# 209P-8-4	FF - BRASS REDUCER NPT 1/2 - 1/4



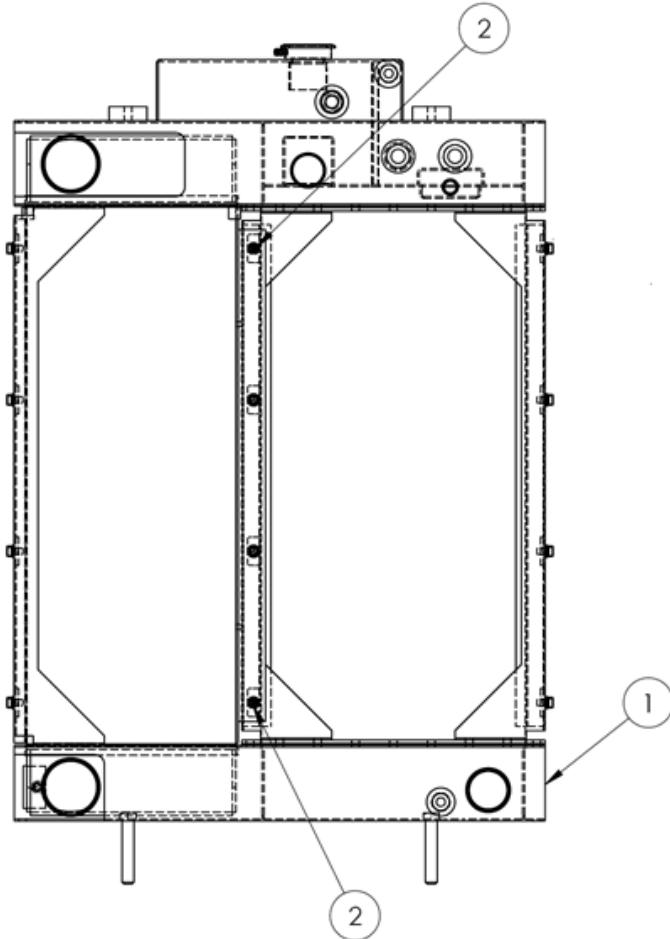


CAC TUBE TYP  
CONNECTION DETAIL

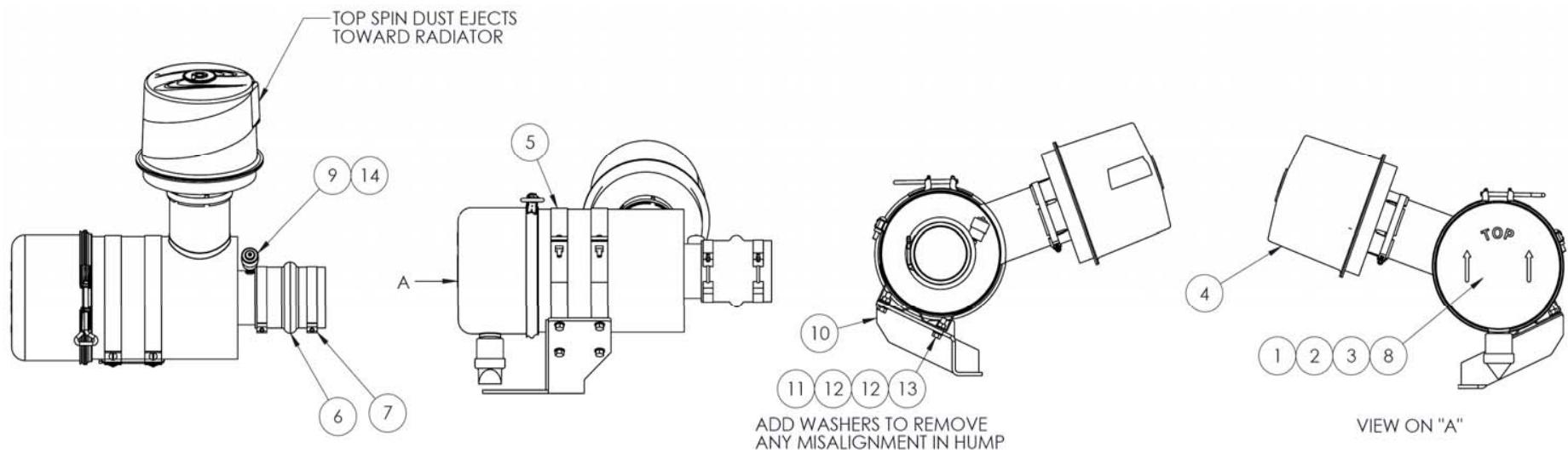
GP - HOSE - RADIATOR/CAC				037-42-027
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-41-002	AS - CAC EXIT TO ENGINE INTAKE C/W 1/8" NPT HI-PRESSURE HALF COUPLING	
2	1	037-41-003	TUBE - TURBO OUT TO CAC IN	
3	1	037-42-029	FH - HOSE LOWER RADIATOR	
4	1	037-42-038	FH - HOSE FILLER	
5	1	037-42-039	FH - HOSE UPPER RADIATOR	
6	1	037-42-040	FH - HOSE RAD DRAIN (5/16"x36"LNG)	
7	1	037-42-041	FH - HOSE COOLANT BLEED	
8	1	037-43-005	PLT - CLAMP SPACER RAD HEATER HOSE	
9	1	037-50-149	PLT - BRACKET - CAC OUTLET TUBE BOLTING	
10	1	037-50-150	PLT - CAC INLET TUBE BRACKET	
11	7	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
12	1	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"	
13	2	CAT# 4L-9337	BOLT - 3/8-16 X 1.5 UNC HEX	
14	13	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
15	4	CAT# 9B-7237	BOLT - 3/8 -16 UNC X 1.25 LG HEX	
16	2	CAT# 9X-2646	HDWM - 3" TUBE CLAMP HALF - ROUND	
17	2	CAT# 9X-2647	HDWM - 3" TUBE CLAMP HALF - FLAT	
18	4	100324	HDWM - 3" HUMP HOSE	
19	8	100325	HDWM - SPRING-LOADED T-BOLT HOSE CLAMP	
20	1	100314	ATOMIZER NOZZLE	
21	2	PARK# 125HBL-4-4	FF - BRASS 1/4" HOSE BARB - 1/4" NPT MALE	
22	1	PARK# 125HBL-12-8	FF - BRASS 3/4" HOSE BARB - NPT 1/2"	
23	1	PARK# 209P-12-8	FF - BRASS REDUCER NPT 3/4 - 1/2	
24	1	PARK# 222P-4-4	FF - BRASS ADAPTER NPT 1/4 - 1/4 M-FM	
25	1	PARK# 2202P-8-8	FF - BRASS 90 DEG STREET ELBOW NPT 1/2"	
26	2	PARK# 88HC-12	FF - CLAMP HOSE 1"	
27	2	PARK# 88HC-32	FF - CLAMP HOSE 2"	
28	2	PARK# 88HC-40H	FF - CLAMP HOSE 2 1/2"	
29	2	PARK# 97HC-3	FF - CLAMP HOSE 1/4"	
30	1	PARK# 97HC-6	FF - CLAMP HOSE 3/8"	
31	1	PARK# CL-17	HDWM - CLAMP	
32	1	PARK# DC607-4	FF - BRASS DRAIN VALVE 1/4 M NPT - 3/8 HOSE	

AS - MODIFIED RADIATOR/CAC

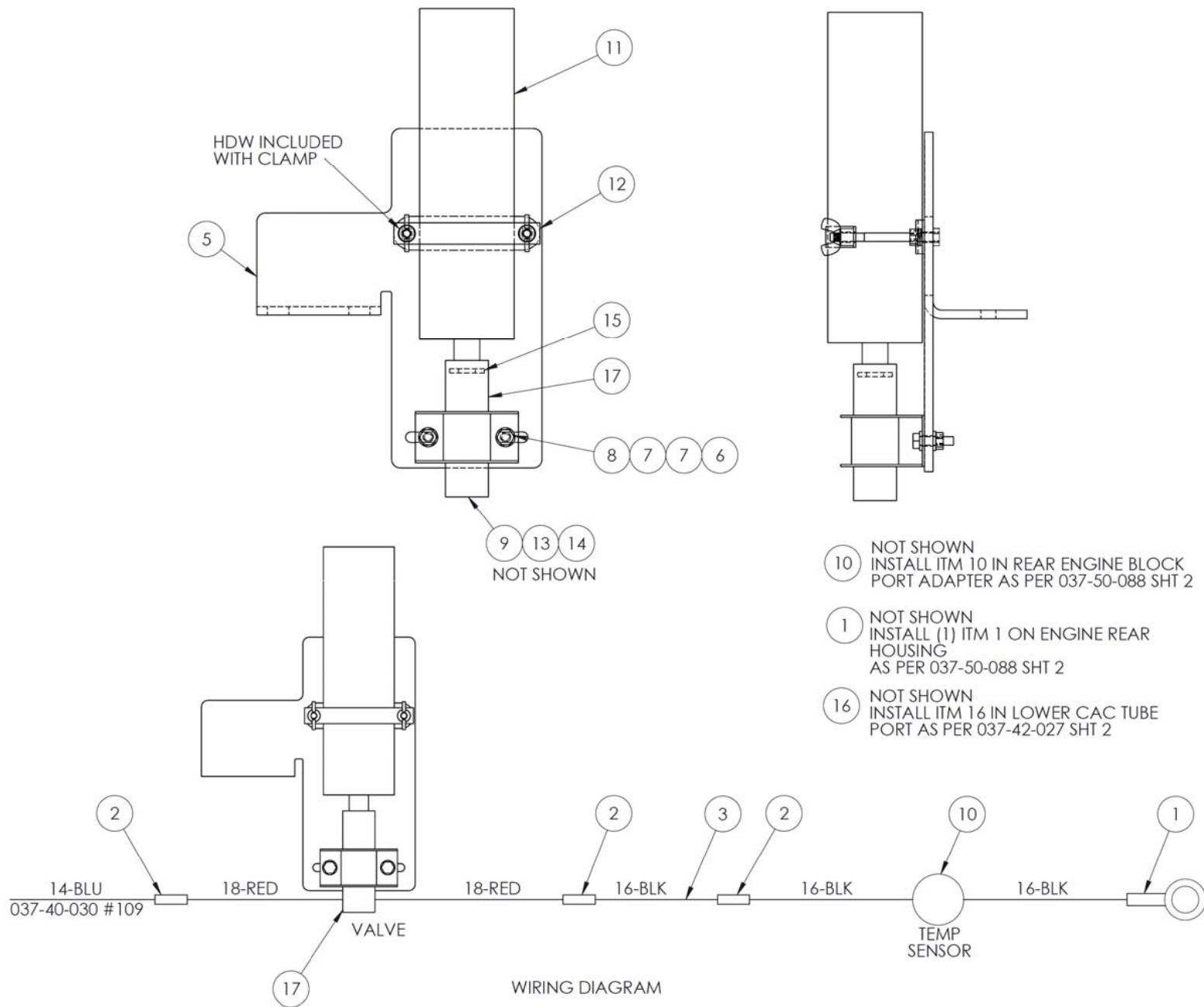
037-50-160



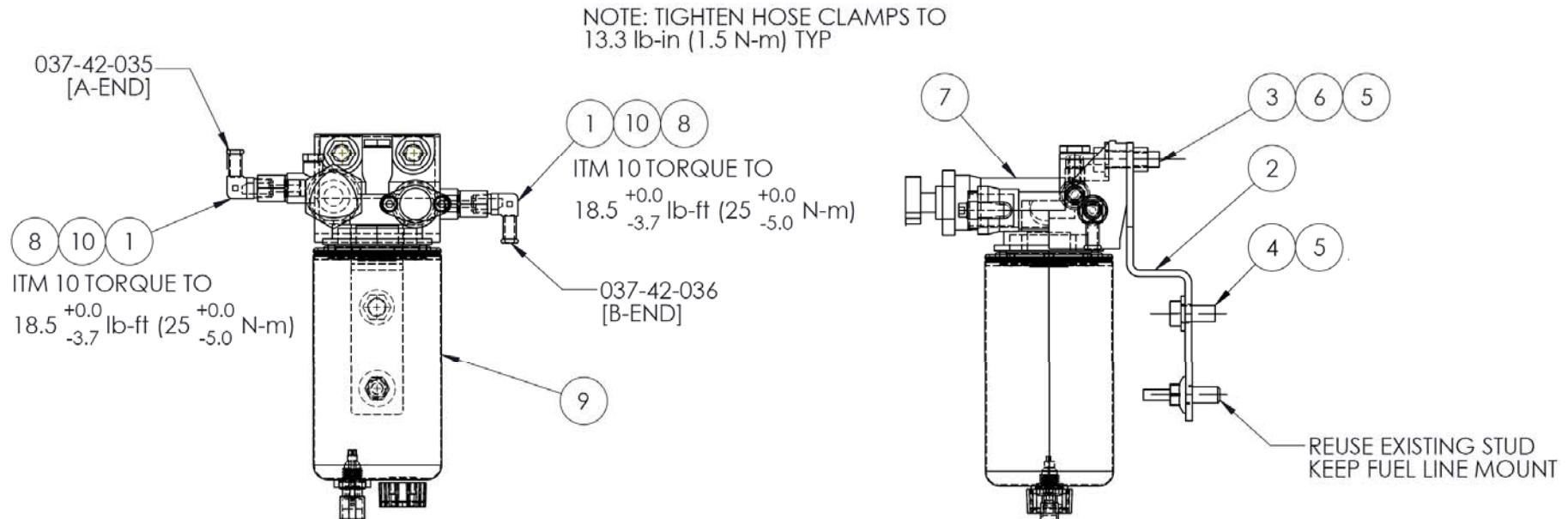
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-109	AS- RADIATOR/CAC
2	2	CAT# 146-8438	BOLT – 5/16x18x 3/4 LONG NC – BUTTON HEAD TORX



ITEM	QTY	PART NO	DESCRIPTION
1	1	006-50-001	AS - AIR CLEANER
2	1	100322	HDWM - VACTUATOR VALVE
3	1	100323	HDWM - PRIMARY FILTER ELEMENT
4	1	006-50-002	HDWM - AIR FLTR PRECLEANER
5	2	006-50-003	HDWM - MOUNTING BAND
6	1	006-50-004	FH - HUMP
7	2	006-50-005	HDWM - CLAMP - T-BOLT
8	1	006-50-006	HDWM - AIR FLTR SAFETY ELEMENT
9	1	006-50-007	HDWM - MINI INDICATOR - AIR FLTR SERVICE
10	1	037-50-124	AS - AIR CLEANER BRKT - S2 ENG
11	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"
12	8	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD
13	4	CAT# 9B-7237	BOLT - 3/8 -16 UNC X 1.25 LG HEX
14	1	PARK# 2214P-2-2	FF - BRASS 45 DEG STREET ELBOW NPT 1/8"

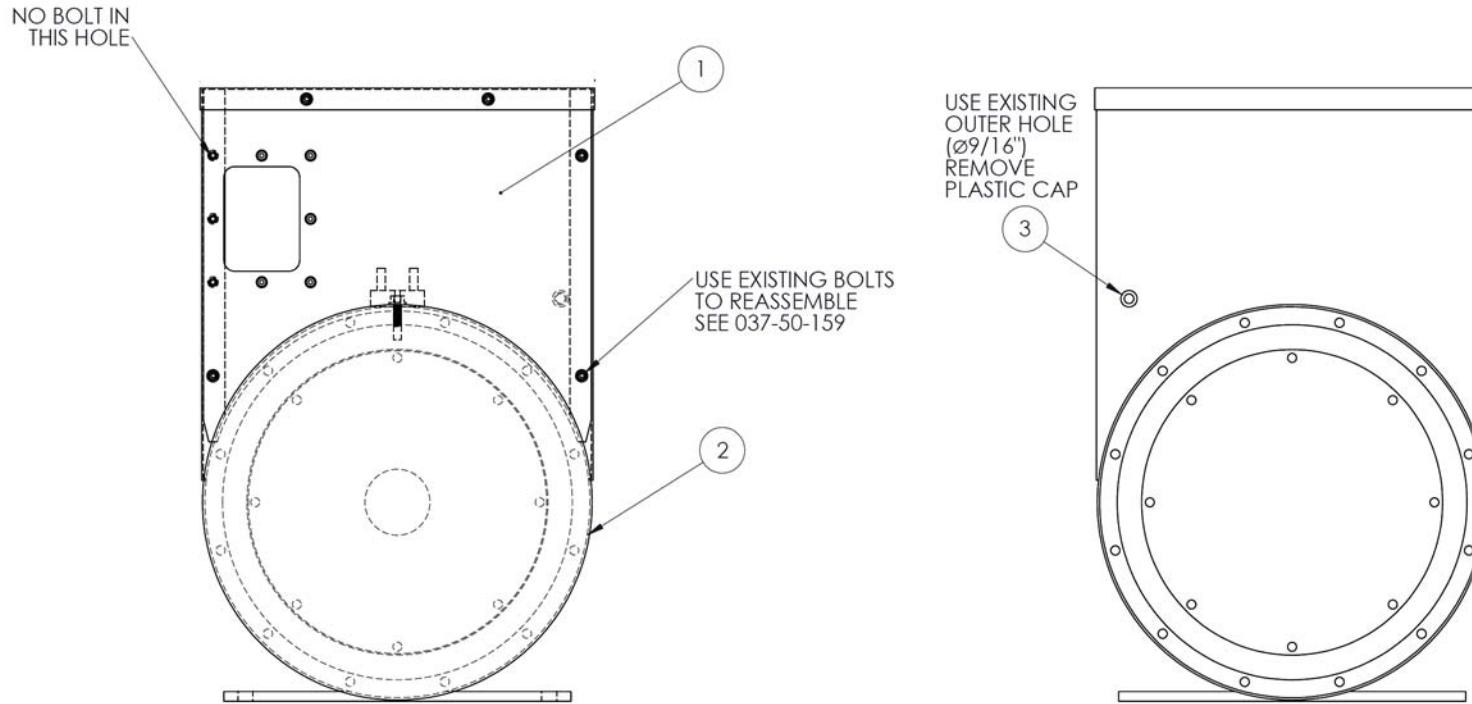


GP - ETHER START				037-50-143
ITEM	QTY	PART NO	DESCRIPTION	
1	1	001-40-035	ELEC-RING TERM	
2	3	001-40-037	ELEC - BUTT CONN	
3	1	037-40-064	ELEC - WIRE-BLK	
5	1	037-50-144	PLT - ETHER START MOUNTING BRKT - S2 ENG	
6	2	CAT# 2D-6235	NUT - LOCK 1/4-20NC	
7	4	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
8	2	CAT# 8T-8908	HDW - BOLT 1/4-20 x 1"	
9	1	100307	TUBING, NYLON, 48" LG	
10	1	100308	TEMP SENSOR 100 DEG 1/2" NPT	
11	1	100309	ETHER BOTTLE	
12	1	100310	CLAMP	
13	1	100311	COMPRESSION FTG	
14	1	100312	FITTING 90 DEG	
15	1	100313	GASKET SEAL	
16	1	100314	ATOMIZER NOZZLE	
17	1	100315	VALVE 3CC 24V	

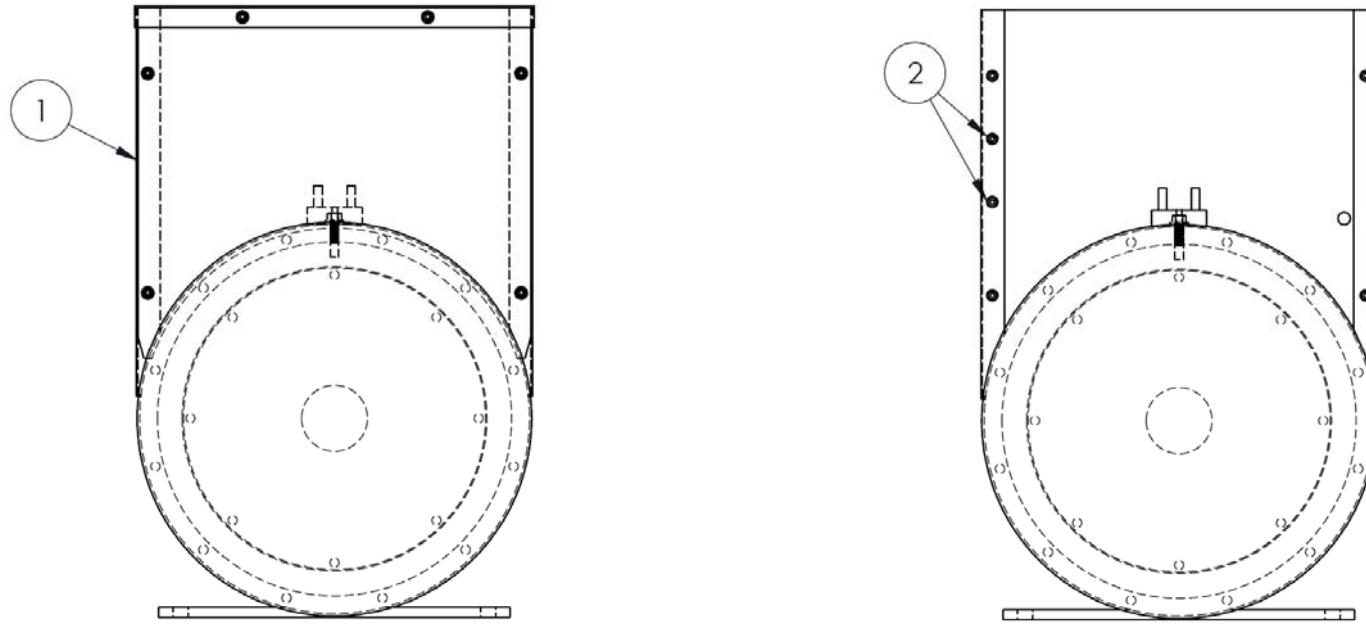


ITEM	QTY	PART NO	DESCRIPTION
1	2	006-43-012	FF - 90° EL 3/8" HOSE BEAD / NPTF 1/4" M BRASS
2	1	037-50-147	PLT - REMOTE FUEL FILTER MOUNT
3	2	CAT# 8T-4183	HDW - BOLT M12x1.75x40
4	1	CAT# 8T-4192	HDW - BOLT M12X1.75X25
5	3	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED
6	2	CAT# 8T-4244	HDW - NUT M12X1.75
7	1	100305	HDWM - FILTER HEAD
8	2	100500	FF - BONDED SEAL, METRIC, 12MM
9	1	100306	HDWM - REMOTE FUEL FILTER
10	2	PARK# M12-1/4F8HG-S	FF-ISO9974 M12x1.5-1/4-18 NPTF

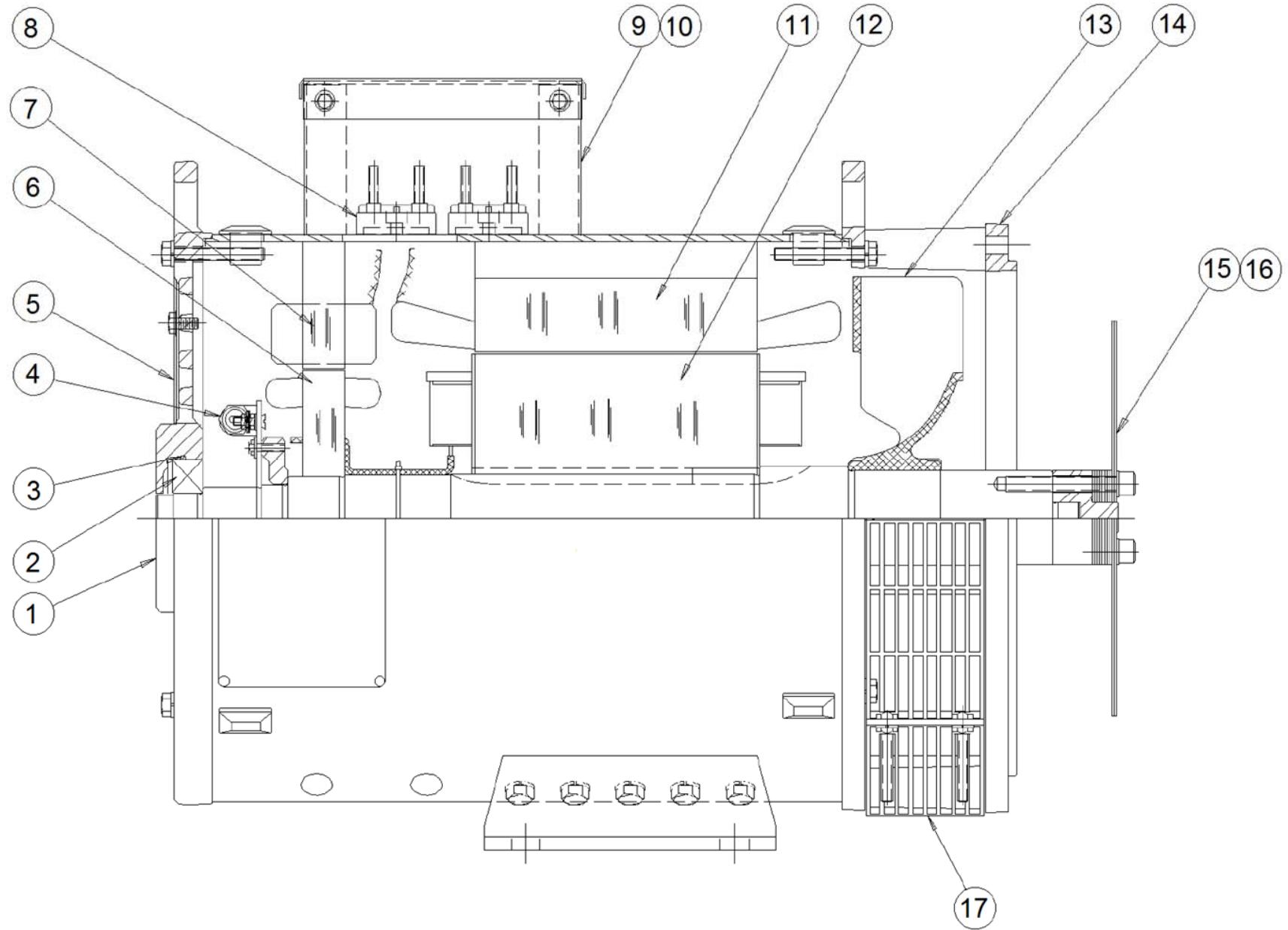
NOTES:



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-156	AS - GENERATOR CABLE INLET
2	1	037-50-159	AS - ALTERNATOR
3	1	MCC# 9600K19	ELEC - RUBBER WIRING GROMMET 3/4" OD - 7/16" ID



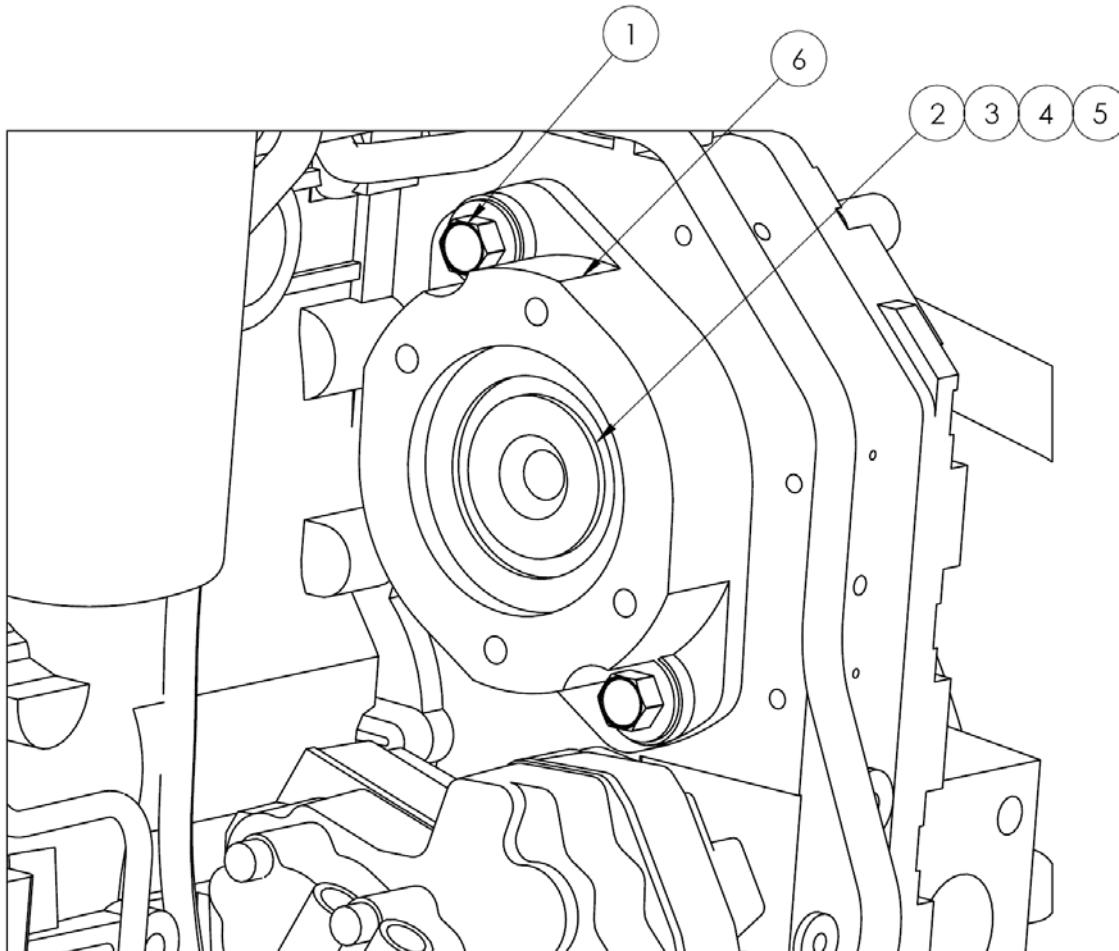
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-069	GENERATOR
2	2	MCC# 95105A183	HDW - KNULED RIVET NUT M6x1.00, 0.7-4.2mm PLT THK - PLATED



AS - GENERATOR				037-50-069
ITEM	QTY	PART NO	DESCRIPTION	
1	1	100204	END BRACKET	
2	1	100203	BEARING	
3	1	100501	O-RING	
4	1	100205	RECTIFIER ASSEMBLY	
	1	100206	FORWARD DIODE	
	1	100207	REVERSE DIODE	
5	1	100502	LOUVER VENT COVER	
6	1	100209	EXCITER ROTOR	
7	1	100208	EXCITER STATOR	
8	1	100212	LINK BOARD	
9	1	100213	CONDUIT BOX	
10	1	100217	SE350 AUTOMATIC VOLTAGE REGULATOR	
11	1	100210	MAIN STATOR	
12	1	100211	MAIN ROTOR	
13	1	100503	FAN	
14	1	100214	SAE HOUSING	
15	3	100215	SAE 11.5 DRIVE DISK	
16	6	100216	SPACERS	
17	1	100504	SCREEN BAND	

## AS - HYD PUMP DRIVE ADAPTER UPGRADE KIT - S2 ENG

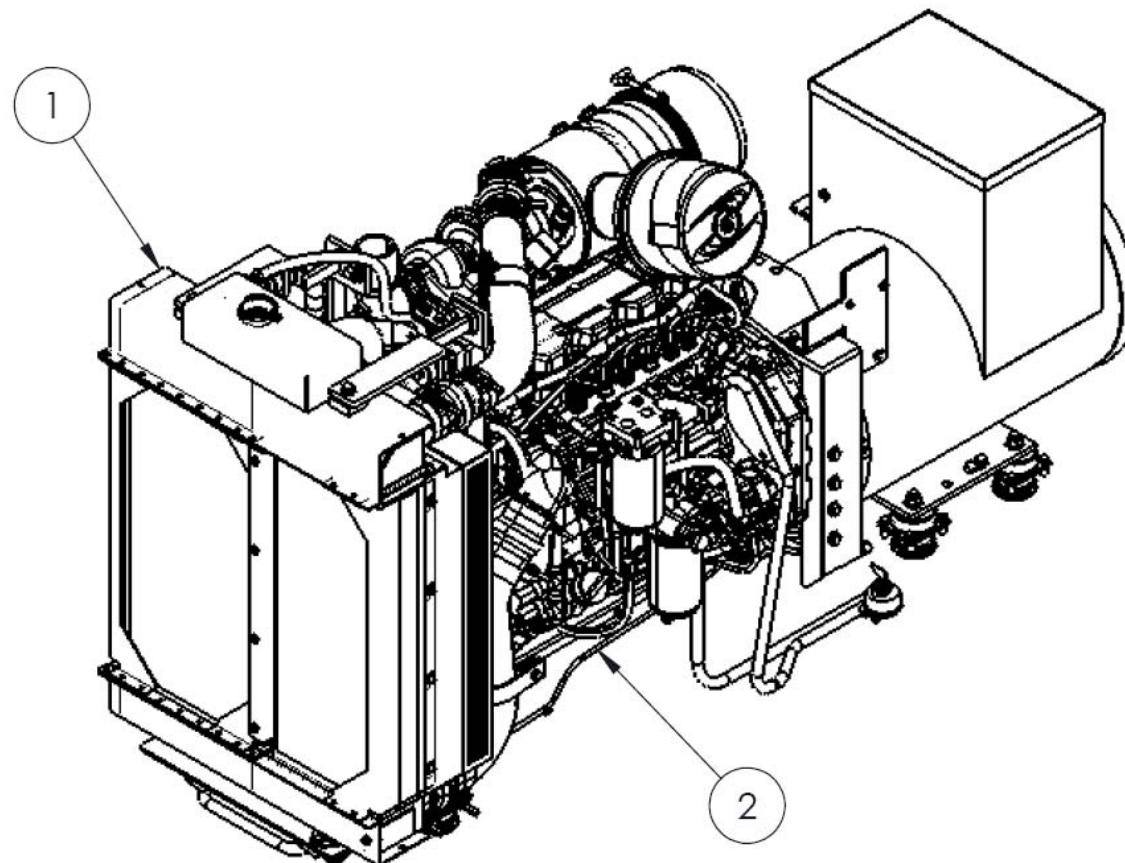
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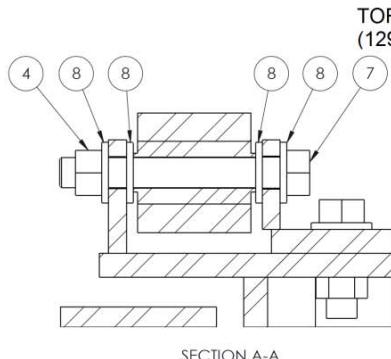
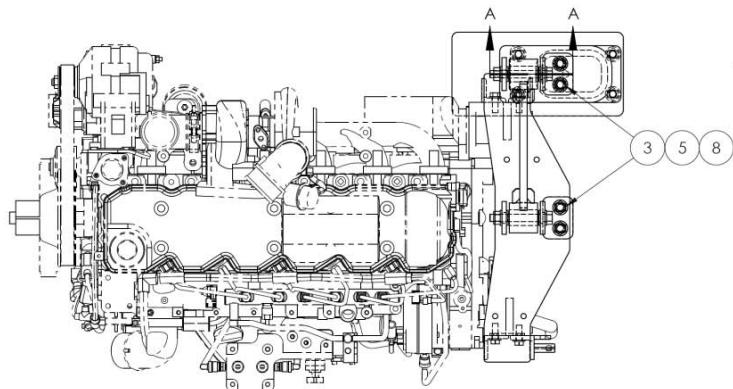
ITEM	QTY	PART NO	DESCRIPTION
1	2	006-50-008	HDW - BOLT - HEX FLANGE HEAD, M12 x 1.75 x 35
2	1	006-50-009	MB - PUMP DRIVE ROLLER BEARING
3	1	006-50-010	HDWM - PUMP DRIVE SHAFT
4	1	006-50-011	HDWM - PUMP DRIVE GEAR
5	1	006-50-012	HDWM - GASKET - ACC DRIVE COVER
6	1	006-50-013	HDWM - DRIVE, HYD PUMP

GP - G-DR ENG W/ETHER START

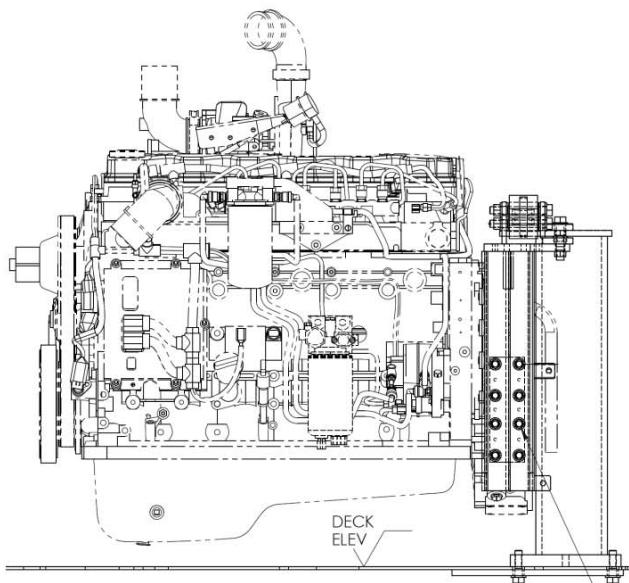
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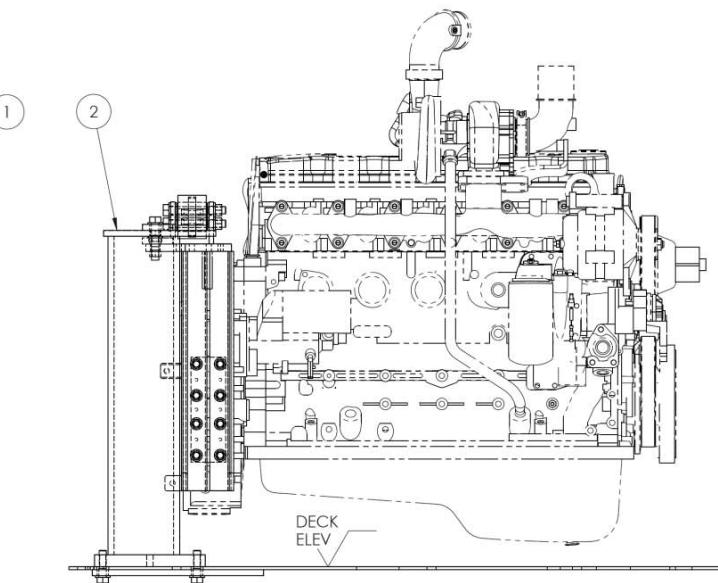
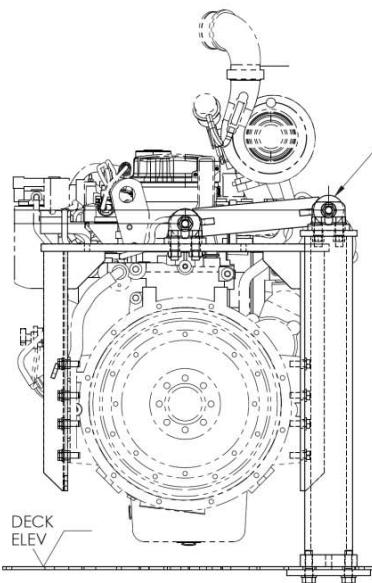
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-088	AS - GENSET DETAILS - S2 ENG
2	1	037-50-082	AS - G-DR ENG W/ETHER START



NOTES:  
ROLL CONTROL LINK (ITM #1) MUST NOT SUPPORT ANY OF THE GENSET LOAD IN THE AT REST POSITION. ENSURE THAT ALL BRACKETS ARE COMPLETELY ALIGNED WITH CONTROL LINK PRIOR TO TORQUING LINK'S MOUNTING



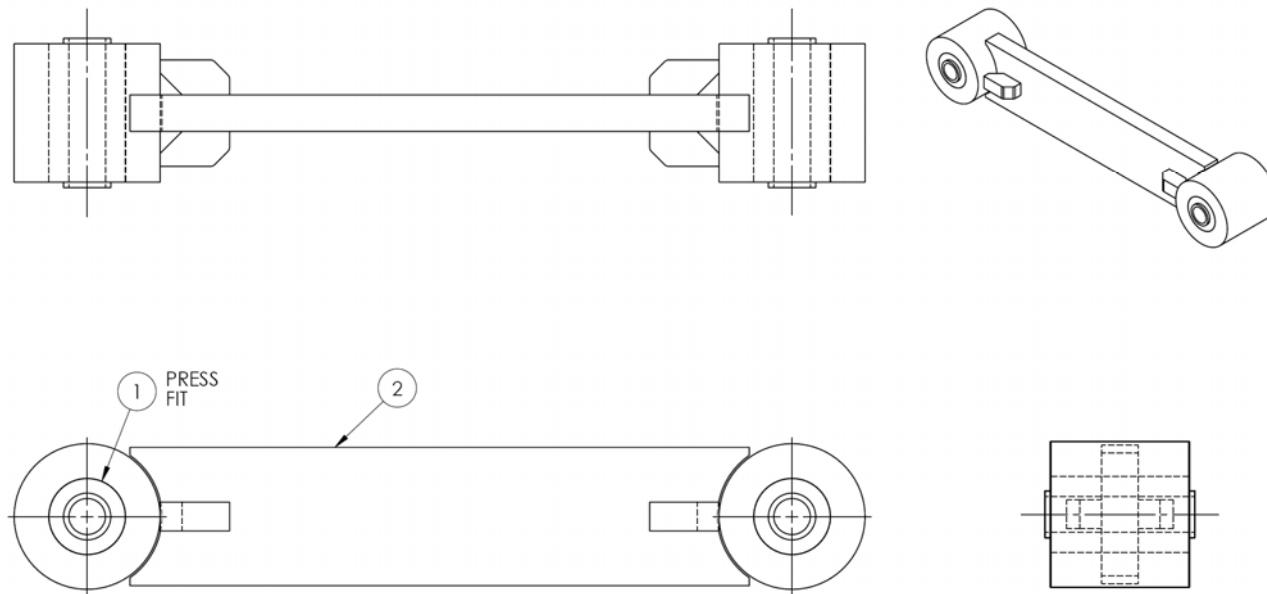
REF 037-50-118  
(SEE 037-50-088 FOR PARTS) TORQUE  
BOLTS TO  $40\pm7$  LB-FT ( $55\pm10$  Nm)  
N.B. ALUMINUM BELLHOUSE USE  
THREADLOCK



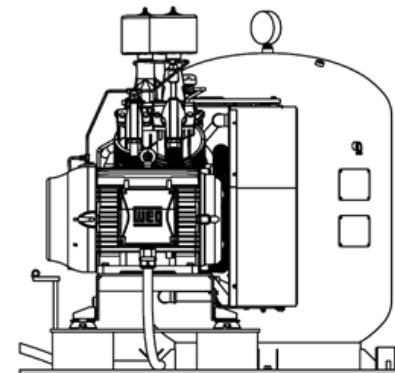
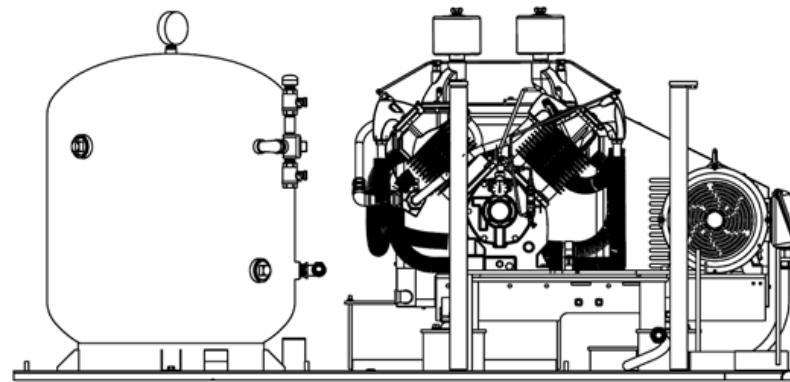
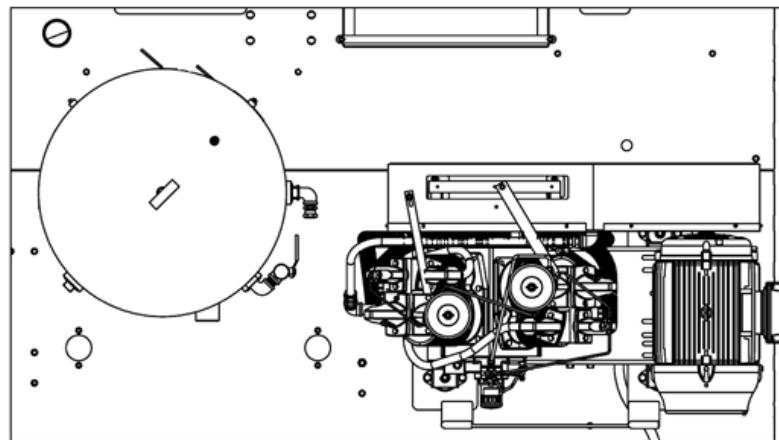
GP - GENSET ROLL CONTROL - S2 ENG				037-50-122
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-50-103	AS - ROLL CONTROL LINK - S2 ENG	
2	1	037-50-123	AS - ROLL CONTROL DECK BRKT - S2 ENG	
3	2	037-50-161	AS - BOLT YOKE ROLL CONTROL BRKT	
4	2	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
5	4	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX	
6	4	CAT# 7X-0347	HDW - BOLT - 5/8-11 UNC X 2.25 HEX	
7	2	CAT# 7X-0355	HDW - BOLT - 5/8-11 UNC X 4.75 HEX	
8	16	CAT# 8T-4122	HDW - WASHER 5/8	

**AS – ROLL CONTROL LINK – S2 ENG**

037-50-103

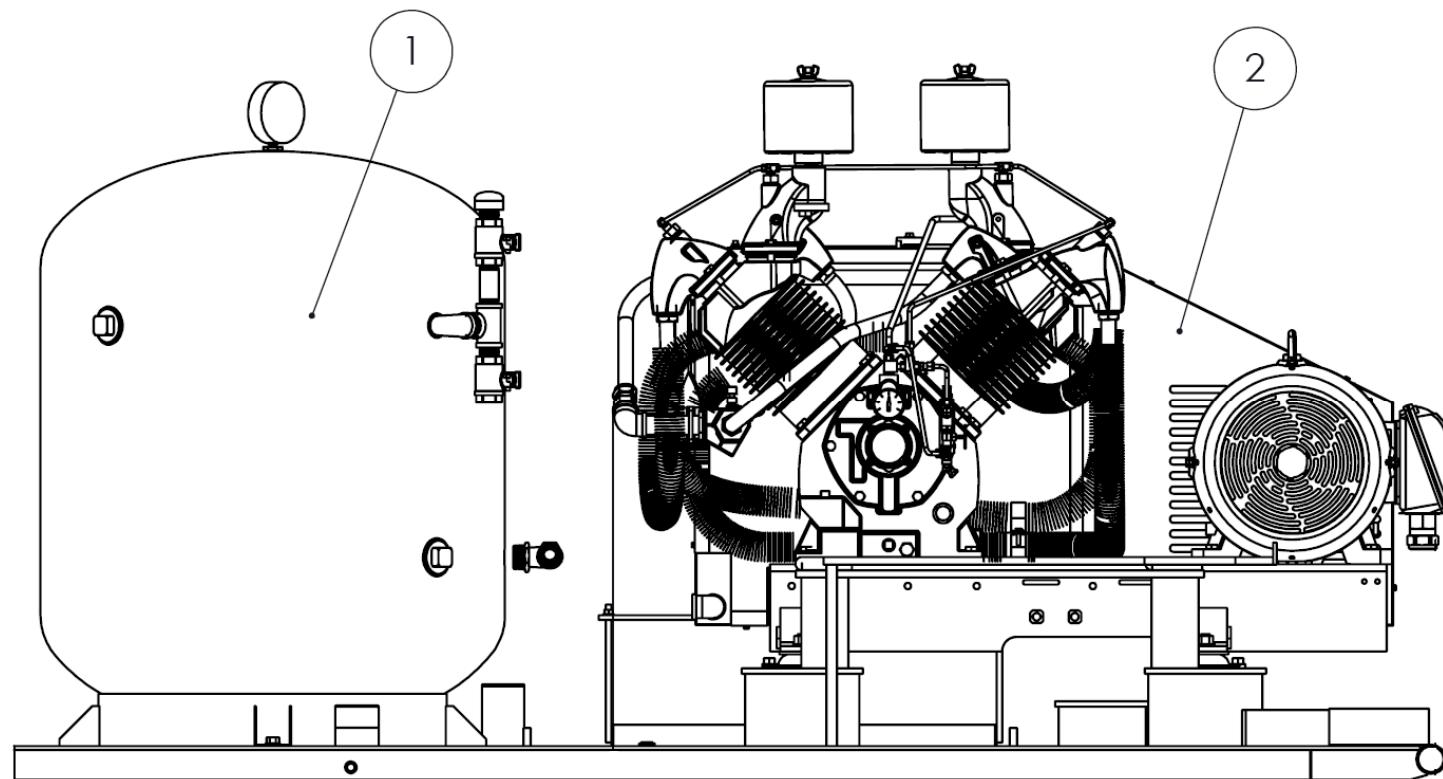


ITEM	QTY	PART NO	DESCRIPTION
1	2	037-45-009	HDWM – BUSHING ISOLATOR
2	1	037-50-101	AS – ROLL CONTROL LINK HOUSING FABRICATION – S2 ENG



ITEM	QTY	PART NO	DESCRIPTION
1	*1	037-55-038	GP - COMPR AIR MODULE CE 50/60 HZ
2	*1	037-55-043	GP - COMPR AIR MOD ASME 50/60 HZ

\*SELECT ONE ITEM FROM LIST



NOTE: CE AIR RECEIVER MUST BE  
USED WITH CE MARKED DECKS.

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-55-040	GP - AIR RCVR-CE (115GAL 250PSI)
2	1	037-55-036	GP - AIR COMPR (30 HP 50/60 HZ 415/460Y 250PSI)



UNDER DECK,  
BELOW TANK



UNDER DECK,  
LH-SIDE

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-55-041	AS - AIR RECEIVER-CE
2	1	037-43-011	GP - FITTINGS , AIR RECEIVER CE
3	4	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC x 1-1/4 LNG
4	4	CAT# 8T-4223	WASHER-FLAT-HARD-PLATED 1/2-IN
5	1	037-42-043	FH - DRAIN LINE 1/2" 250 PSI



1  
5  
5

2  
9

4  
6  
7  
7  
8  
10  
11



275 PSI  
RELIEF VALVE  
C/W  
COMPRESSOR (REF 037-43-006)  
UNLOADER BRANCH  
PART OF COMP  
FITTINGS KIT (037-43-006)  
037-42-009 [B END]

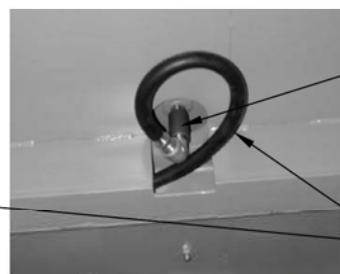
SUPPLY LINE  
PART OF COMP  
FITTINGS KIT (037-43-006)  
(CONNECTION NOT SHOWN)  
037-42-008 [A END]

14  
15  
16  
17

3



12  
13  
14  
15

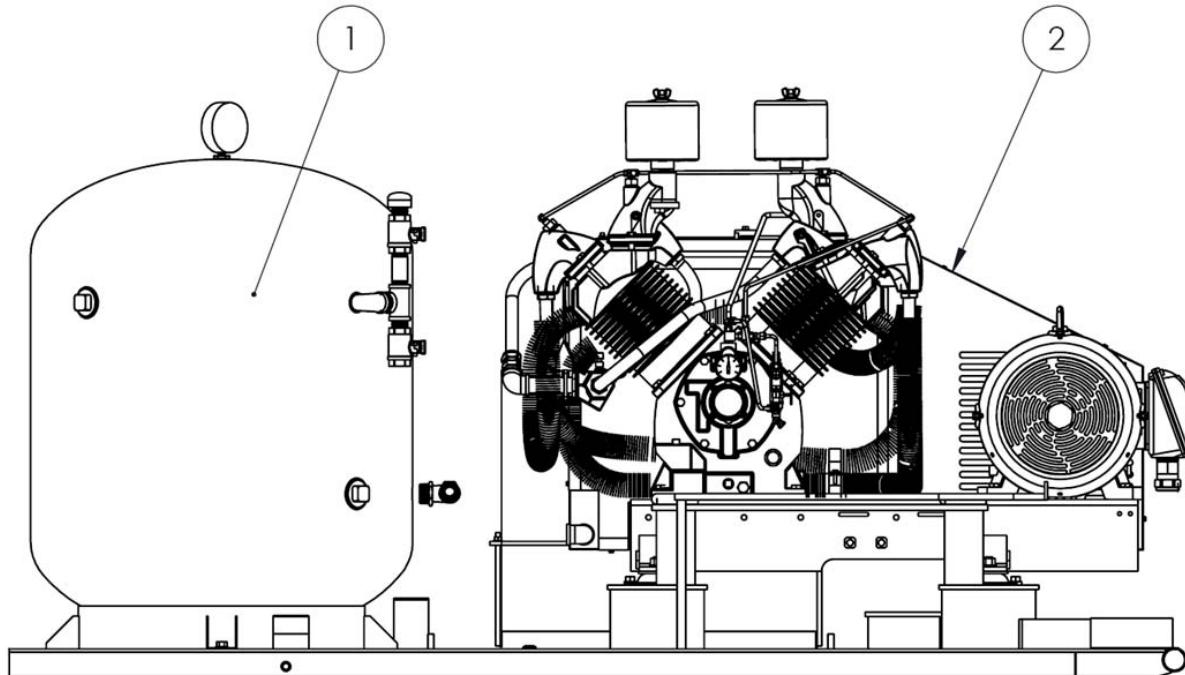


DRAIN HOSE  
(REF 037-55-006)

UNDER DECK,  
LH-SIDE

UNDER DECK,  
BELow TANK

GP – FITTINGS AIR RCVR-CE				037-43-011
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-43-014	FF - GALVANIZE MALE PIPE PLUG SQUARE HEAD 1/4"	
2	1	006-43-007	FF - GALVANIZE BUSHING 3/4-1/4" NPT	
3	1	006-43-009	FF - 90 DEG STREET ELBOW NPT 1/2"	
4	1	006-43-015	FF - GALVANIZE TEE FM NPT 1"	
5	3	100505	PLUG 2 NPT SQ HD SA350 LF2 PLAIN	
6	1	006-43-005	FF - GALVANIZE 90 DEG STEET. ELBOW M NPT - F NPT 1"	
7	3	006-43-017	FF - GALV XH SMLS NIPPLE NPT 1 X 2"	
8	2	PARK# XV500P-16	BRASS BALL VALVE NPT 1"	
9	1	037-63-059	GAUGE - AIR PRESSURE TANK MOUNTED	
10	1	006-43-018	FF - GALV XH SMLS MALE PIPE NIPPLE	
11	1	006-43-019	FF - GALVANIZE FILL CAP NPT 1"	
12	1	006-43-020	FF - GALV XH SMLS PIPE NIPPLE 1/2 x 2"	
13	1	006-43-021	FF - GALVANIZE 90 DEG ELBOW FM NPT 1/2"	
14	2	PARK# 125HBL-8-8	HOSE FITTING NPT 1/2" - HOSE 1/2"	
15	2	PARK# HC-8	CLAMP, HOSE	
16	1	PARK# XV500P-8	VALVE BALL NPT FM 1/2"	
17	1	006-43-022	FF - GALV XH SMLS PIPE NIPPLE 1/2 x 1 1/8"	

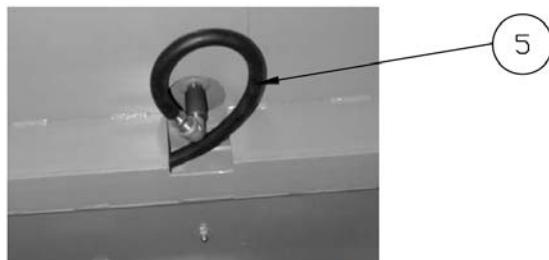
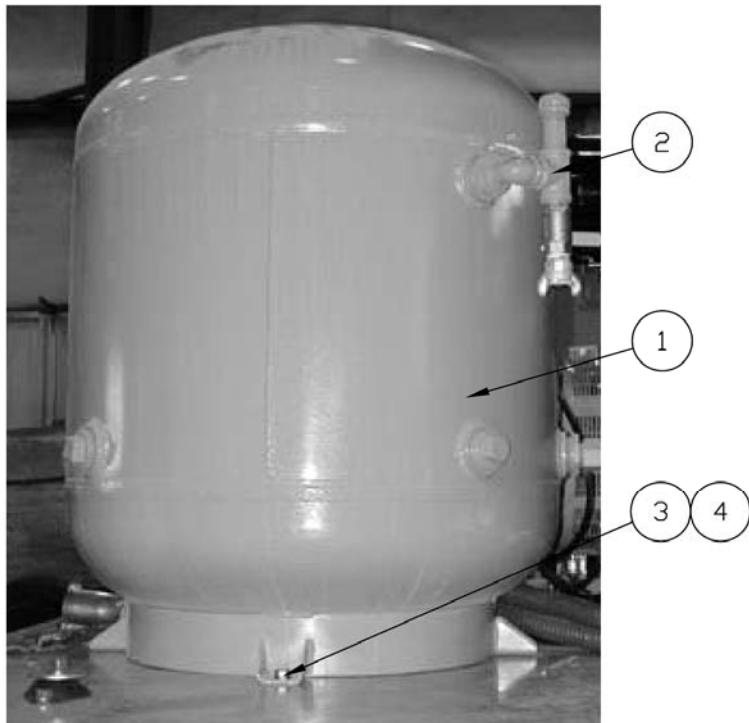


NOTE: ASME AIR RECEIVER CANNOT  
BE USED WITH CE MARKED DECKS.

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-55-006	GP - AIR RCVR-ASME (115GAL 250PSI)
2	1	037-55-036	GP - AIR COMPR (30 HP 50/60 HZ 415/460Y 250PSI)

GP - AIR RECEIVER – ASME (115 GAL 250 PSI)

037-55-006

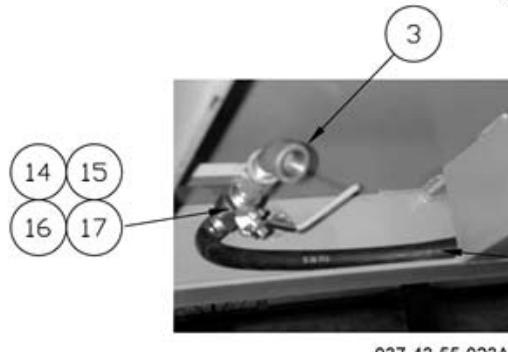
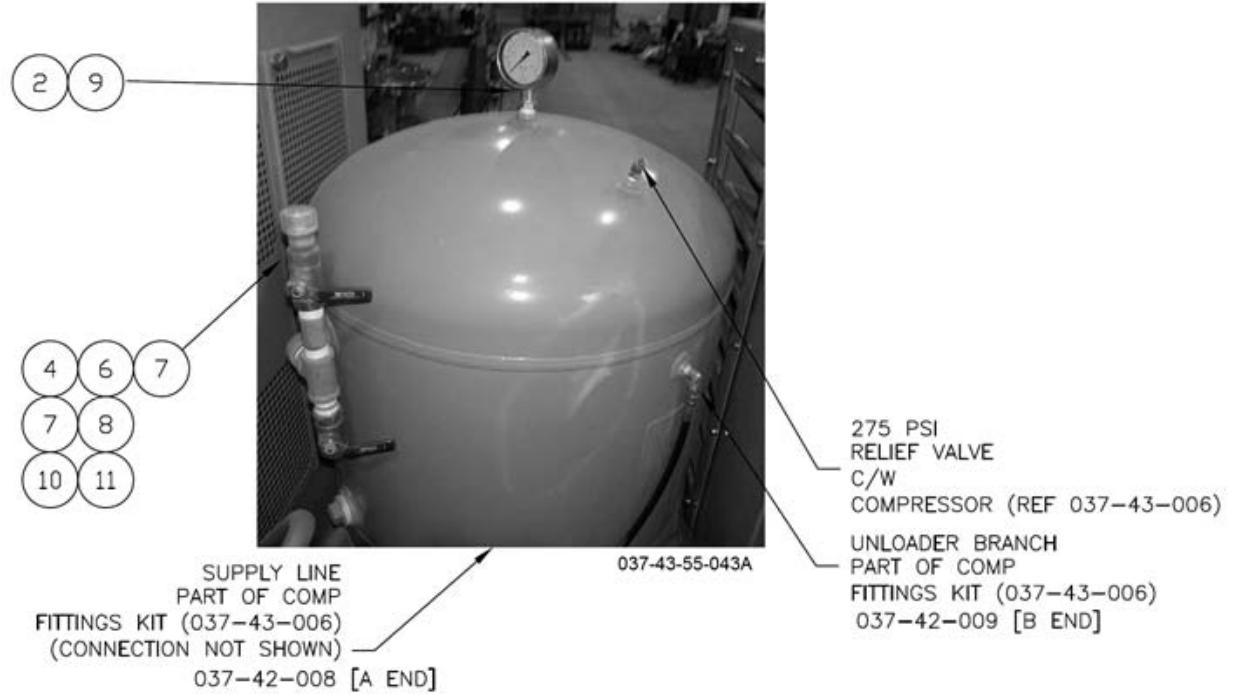


UNDER DECK,  
BELOW TANK

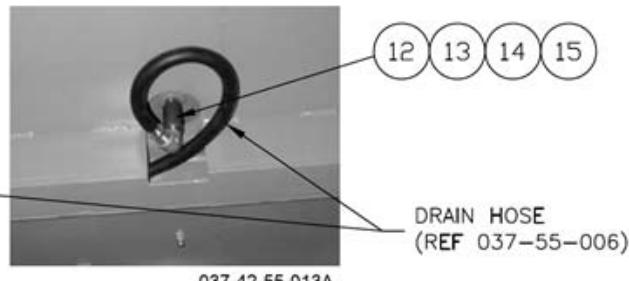


UNDER DECK,  
LH-SIDE

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-55-014	AS - AIR RECEIVER-CE
2	1	037-43-009	GP - FITTINGS , AIR RECEIVER
3	4	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC x 1-1/4 LNG
4	4	CAT# 8T-4223	WASHER-FLAT-HARD-PLATED 1/2-IN
5	1	037-42-043	FH - DRAIN LINE 1/2" 250 PSI

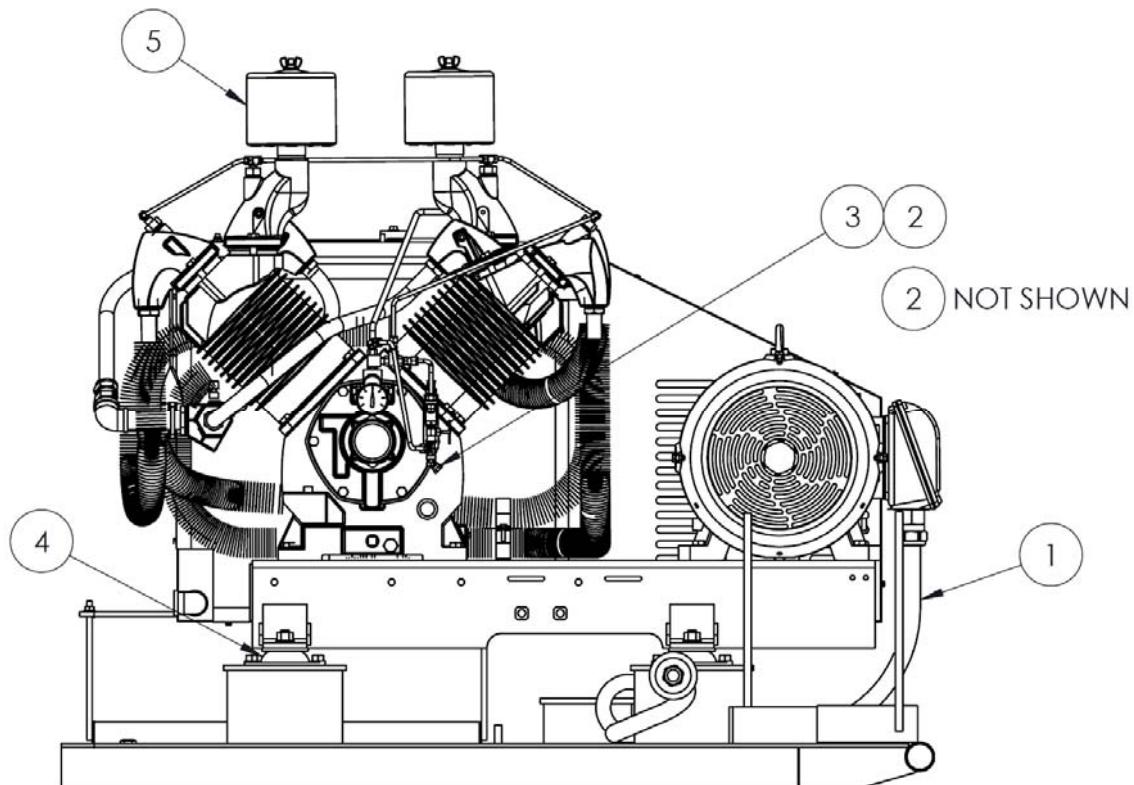


UNDER DECK,  
LH-SIDE

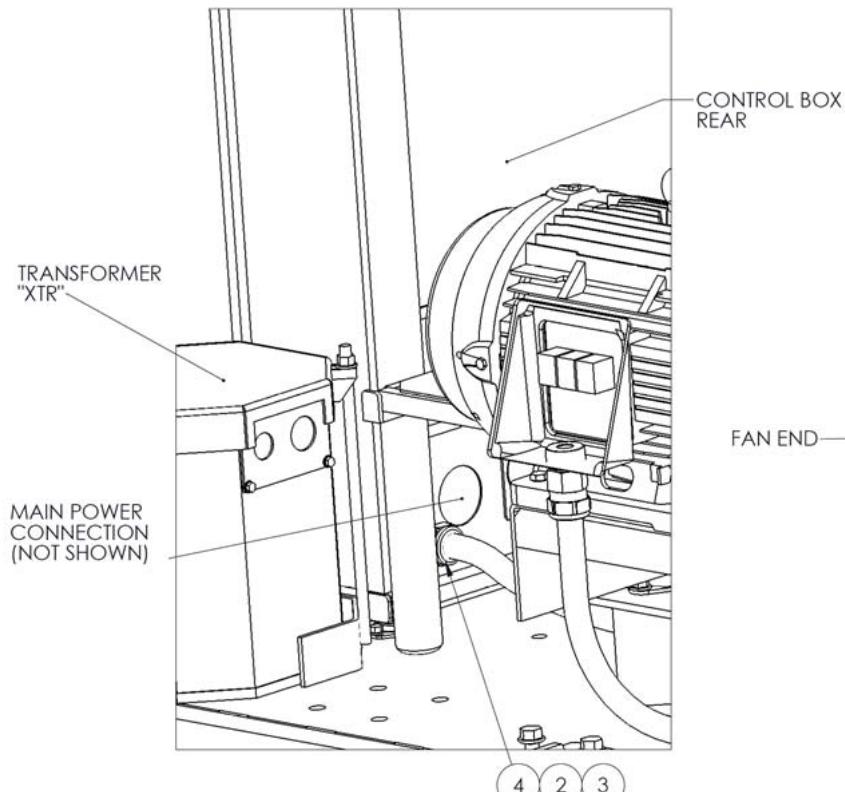


UNDER DECK,  
BELLO TANK

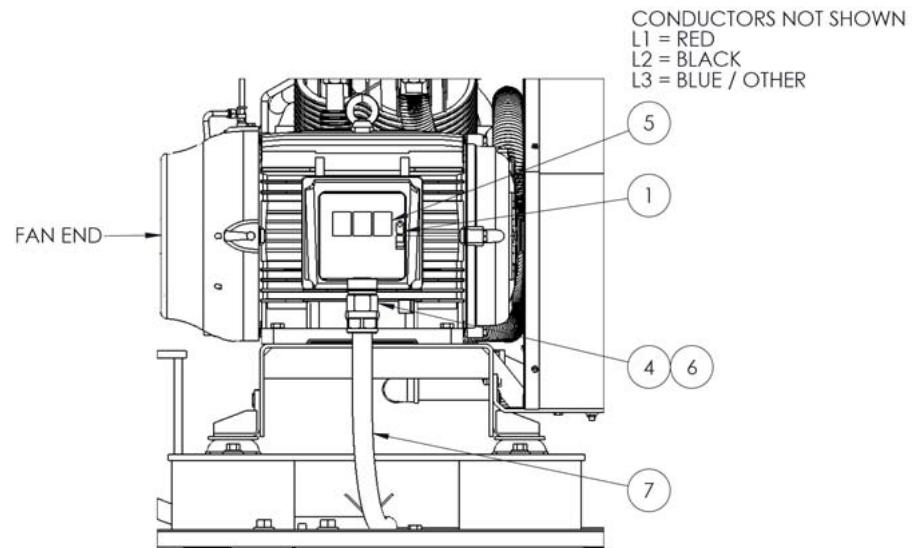
GP - FITTINGS AIR RECEIVER				037-43-009
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-43-014	FF - GALVANIZE MALE PIPE PLUG SQUARE HEAD 1/4"	
2	1	006-43-007	FF - GALVANIZE BUSHING 3/4-1/4" NPT	
3	1	006-43-009	FF - 90 DEG STREET ELBOW NPT 1/2"	
4	1	006-43-015	FF - GALVANIZE TEE FM NPT 1"	
5	2	006-43-016	FF - GALVANIZE MALE PIPE PLUG SQUARE HEAD 2"	
6	1	006-43-005	FF - GALVANIZE 90 DEG STEET. ELBOW M NPT - F NPT 1"	
7	3	006-43-017	FF - GALV XH SMLS NIPPLE NPT 1 X 2"	
8	2	PARK# XV500P-16	BRASS BALL VALVE NPT 1"	
9	1	037-63-059	GAUGE - AIR PRESSURE TANK MOUNTED	
10	1	006-43-018	FF - GALV XH SMLS MALE PIPE NIPPLE NPT 1 x 4"	
11	1	006-43-019	FF - GALVANIZE FILL CAP NPT 1"	
12	1	006-43-020	FF - GALV XH SMLS PIPE NIPPLE 1/2 x 2"	
13	1	006-43-021	FF - GALVANIZE 90 DEG ELBOW FM NPT 1/2"	
14	2	PARK# 125HBL-8-8	HOSE FITTING NPT 1/2" - HOSE 1/2"	
15	2	PARK# HC-8	CLAMP, HOSE	
16	1	PARK# XV500P-8	VALVE BALL NPT FM 1/2"	
17	1	006-43-022	FF - GALV XH SMLS PIPE NIPPLE 1/2 x 1 1/8"	



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-40-041	GP - WIRING, CE AIR COMPRESSOR - S2
2	1	037-42-007	GP - HOSE, COMPRESSOR
3	1	037-43-006	GP - FITTINGS, COMPRESSOR
4	1	037-55-037	AS - COMPRESSOR INSTALLATION
5	1	037-55-039	AS - CE COMPR



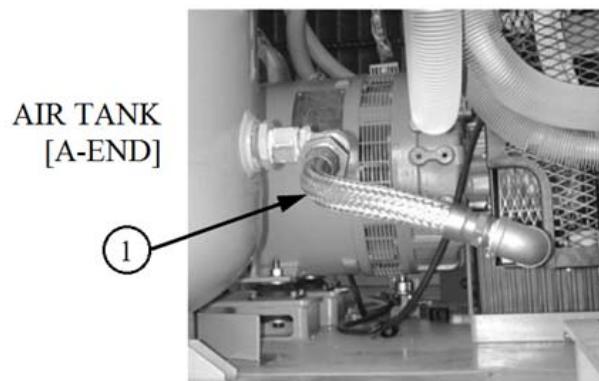
CONTROL BOX CONNECTION DETAIL  
037-40-042 CONNECTS INTERNALLY TO "OL1":  
L1 = RED  
L2 = BLACK  
L3 = BLUE / OTHER



## NOTE:

1. COMPRESSOR ELECTRICAL WIRING TO BE INSTALLED BY A LICENSED ELECTRICIAN.
2. MOTOR ROTATION: CLOCKWISE WHEN VIEWED FROM MOTOR-FAN END.

ITEM	QTY	PART NO	DESCRIPTION
1	3	001-40-027	ELEC - TERMINAL RING (8 AWG, 1/4IN)
2	1	006-40-005	ELEC - PLASTIC BUSHING 3/4"
3	1	006-40-006	ELEC - LOCK NUT 3/4" FOR USE WITH CONDUIT
4	2	006-40-007	ELEC - 3/4" HUB STAR TECK CONNECTOR
5	3	006-40-016	ELEC-14-4 1SIDE UNITAP 3HL CON
6	1	006-40-017	ELEC-REDUCER NPT 1-1/2 TO 3/4
7	1	037-40-042	ELEC - COMPRESSOR PWR CABLE



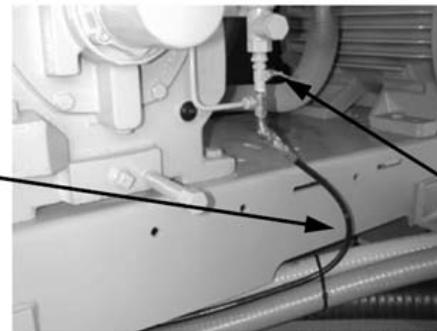
037-42-55-005A

COMPRESSOR  
[B-END]

037-43-55-004



037-43-55-044A



037-42-55-007A

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-42-008	AS - HOSE – MAIN AIR SUPPLY
2	1	037-42-009	AS - HOSE – SENSING LINE FROM PILOT VALVE TO AIR TANK

## GP - FITTINGS, AIR COMPRESSOR CONTINUOUS RUN - WELDER

037-43-006

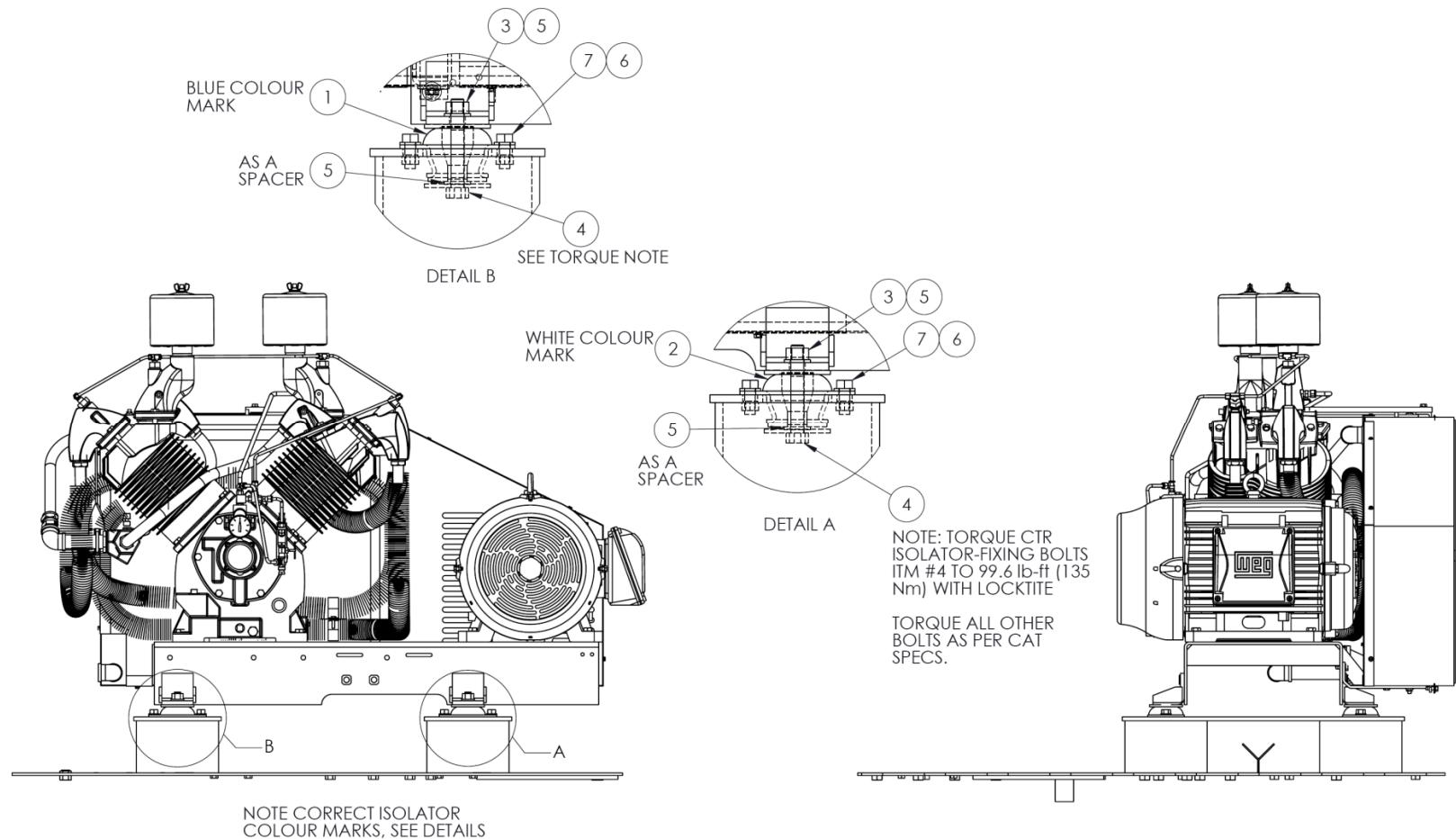
UNLOADER BRANCH  
037-42-009 [A END]

037-42-55-007A

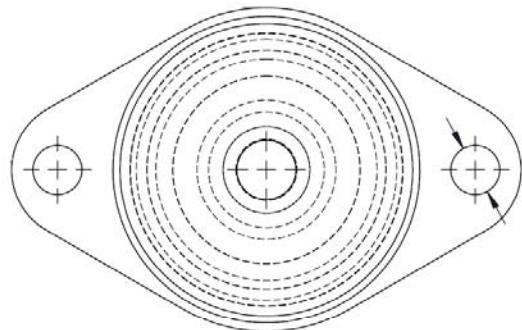
UNLOADER BRANCH (TO AIR COMP)  
037-42-009 [B END]

037-43-55-044A

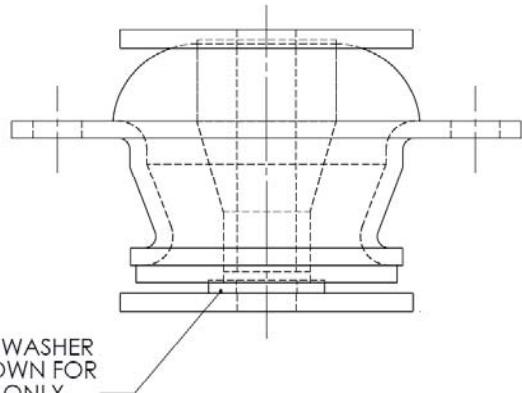
ITEM	QTY	PART NO	DESCRIPTION
1	1	PARK# 176CA-4-2	FF - TEE - FM TO M 1/8" NPT RUN - 1/4" TUBE BRANCH
2	1	PARK# 3107-2-2	45 DEG MALE NPT - FMS NPT 1/8"
3	1	100302	PILOT UNLOADER VALVE
	*		(SUPPLIED WITH NEW AIR COMPRESSOR)
4	1	100303	CE RELIEF VALVE NPT 1/4"
5	1	PARK# 2107-4-4	90 DEG M - FMS NPT 1/4"
6	1	006-43-005	FF - GALVANIZE 90 DEG STEET. ELBOW M NPT - F NPT 1"
7	1	100304	CHECK VALVE M - F NPT 1 1/4"
8	1	006-43-006	FF - GALVANIZE REDUCING BUSHING NPT 1 1/4 - 1"
9	1	PARK# ADPT0107-16-16	STRAIGHT NPTM-NPTFMS-1"



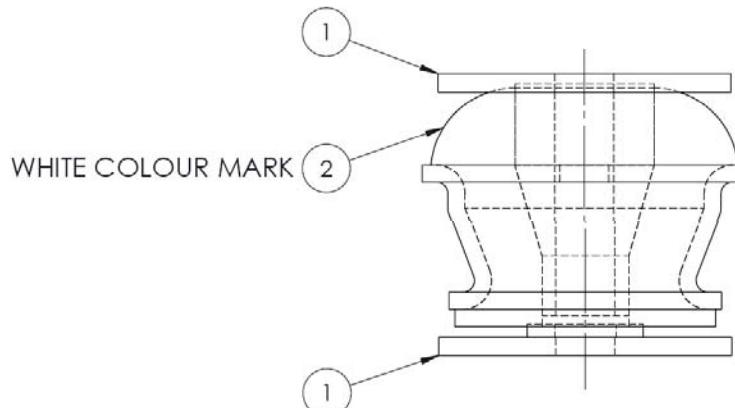
ITEM	QTY	PART NO	DESCRIPTION
1	2	037-05-023	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND
2	2	037-05-042	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND
3	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD
4	4	CAT# 7X-0353	HDW - BOLT - 5/8-11 UNC X 4.25 HEX
5	8	CAT# 8T-4122	HDW - WASHER 5/8
6	8	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED
7	8	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG



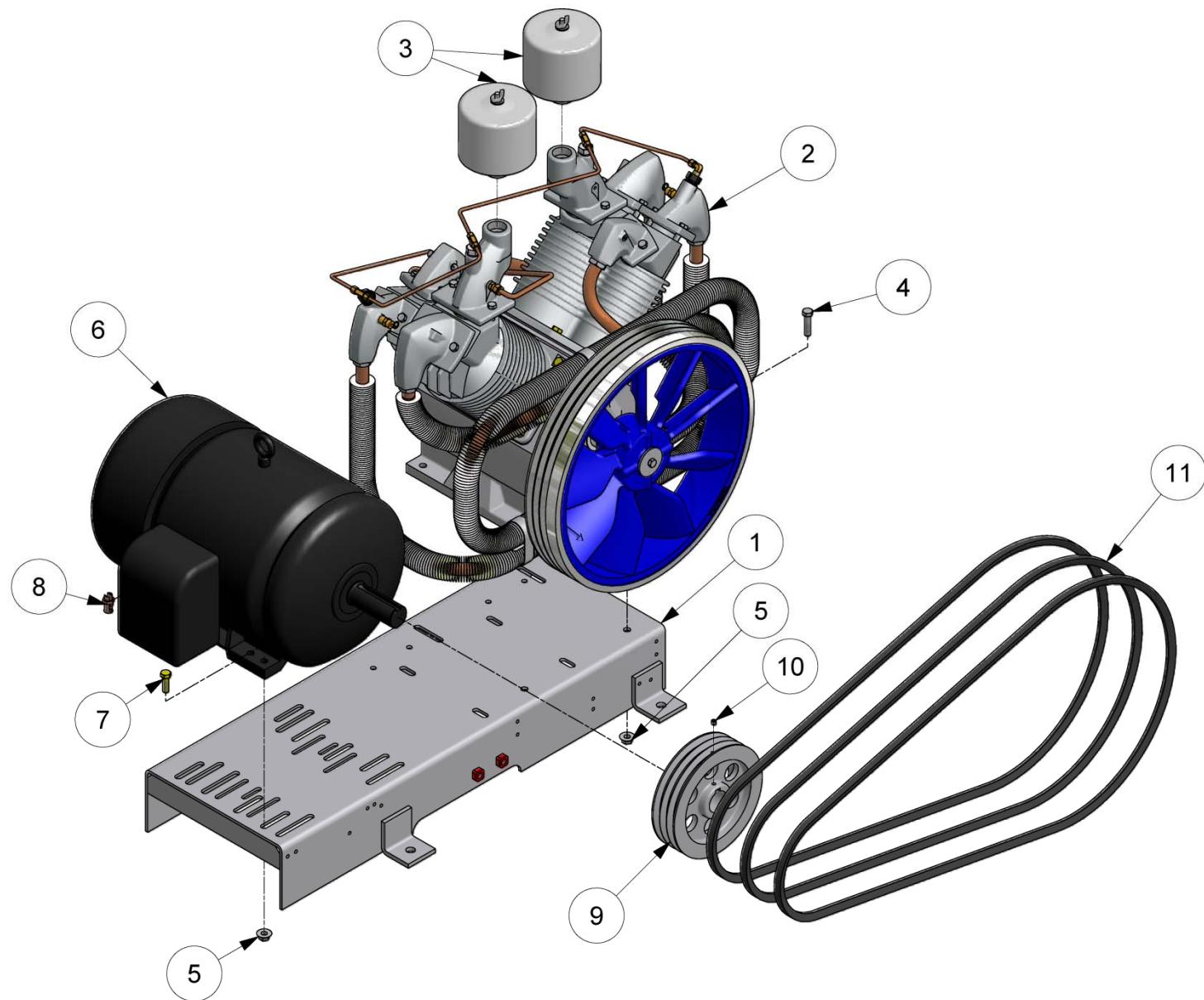
NOTE: TORQUE CTR  
ISOLATOR-FIXING  
BOLTS TO 99.6  
lb-ft (135 Nm)



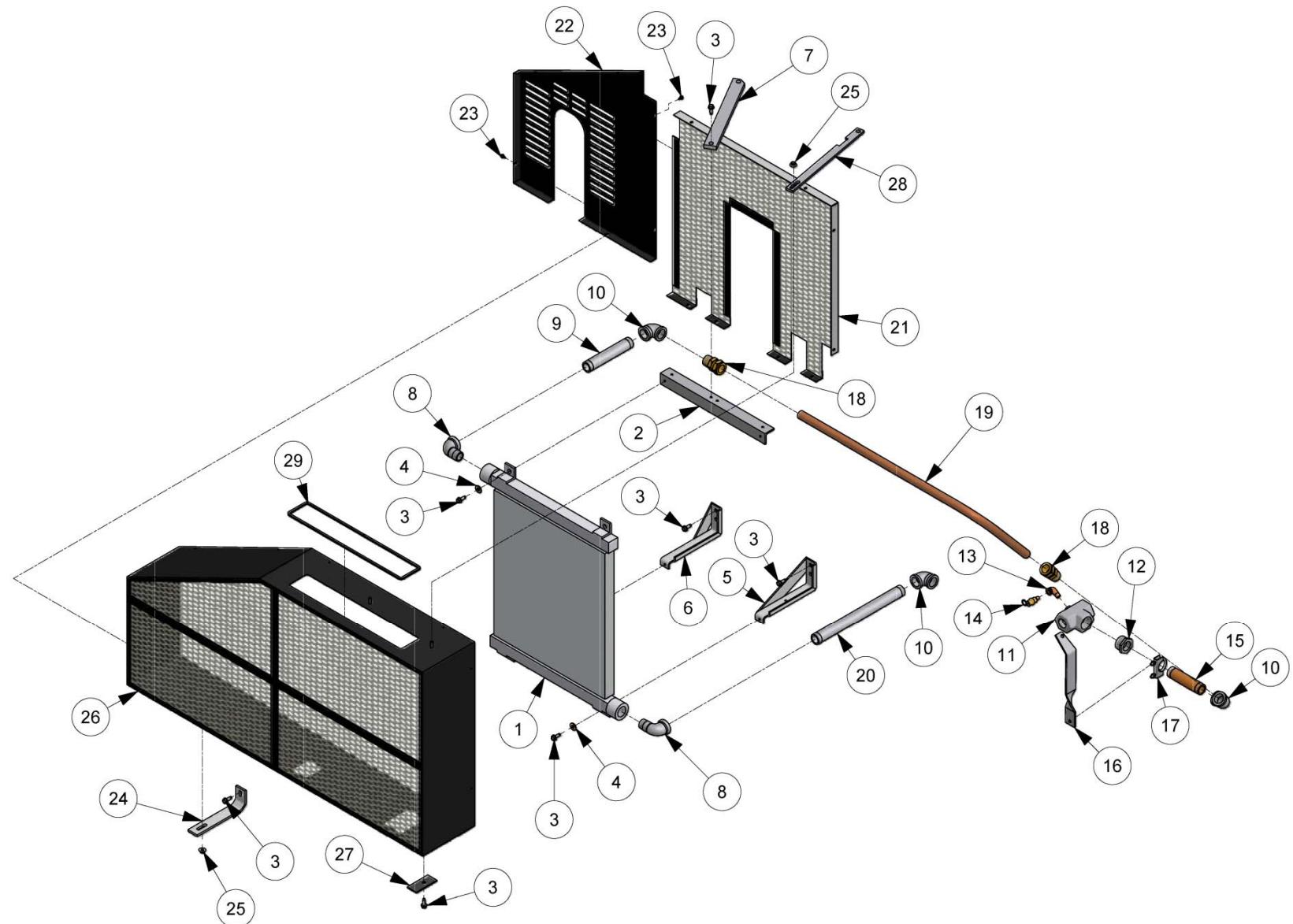
NOTE: OVERLOAD WASHERS  
SHOWN AT LOADED HEIGHT.



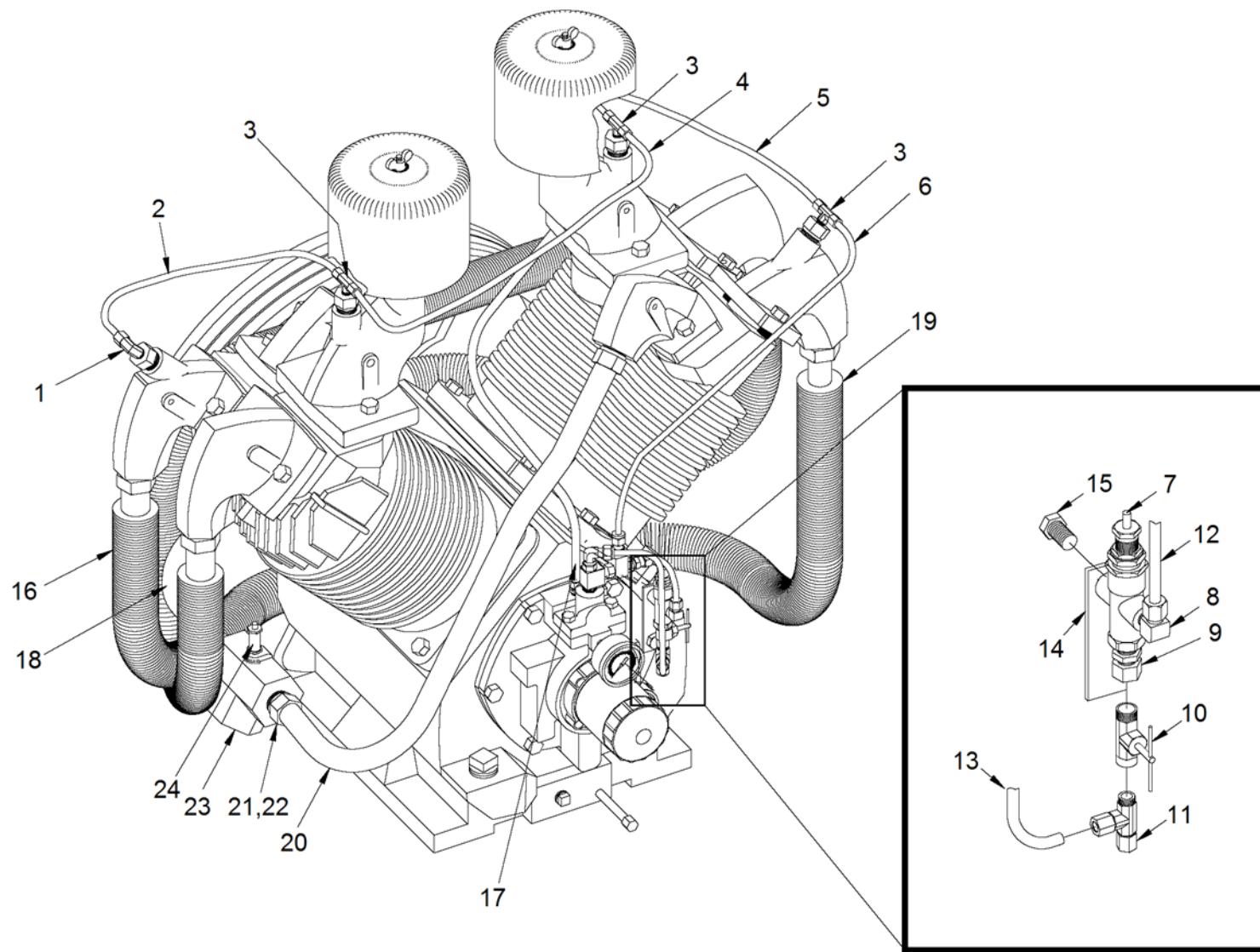
ITEM	QTY	PART NO	DESCRIPTION
1	2	037-45-002	HDWM - OVERLOAD/REBOUND WASHER
2	1	037-45-010	HDWM - VIBRATION ISOLATOR - PLATE MOUNT DIAMOND



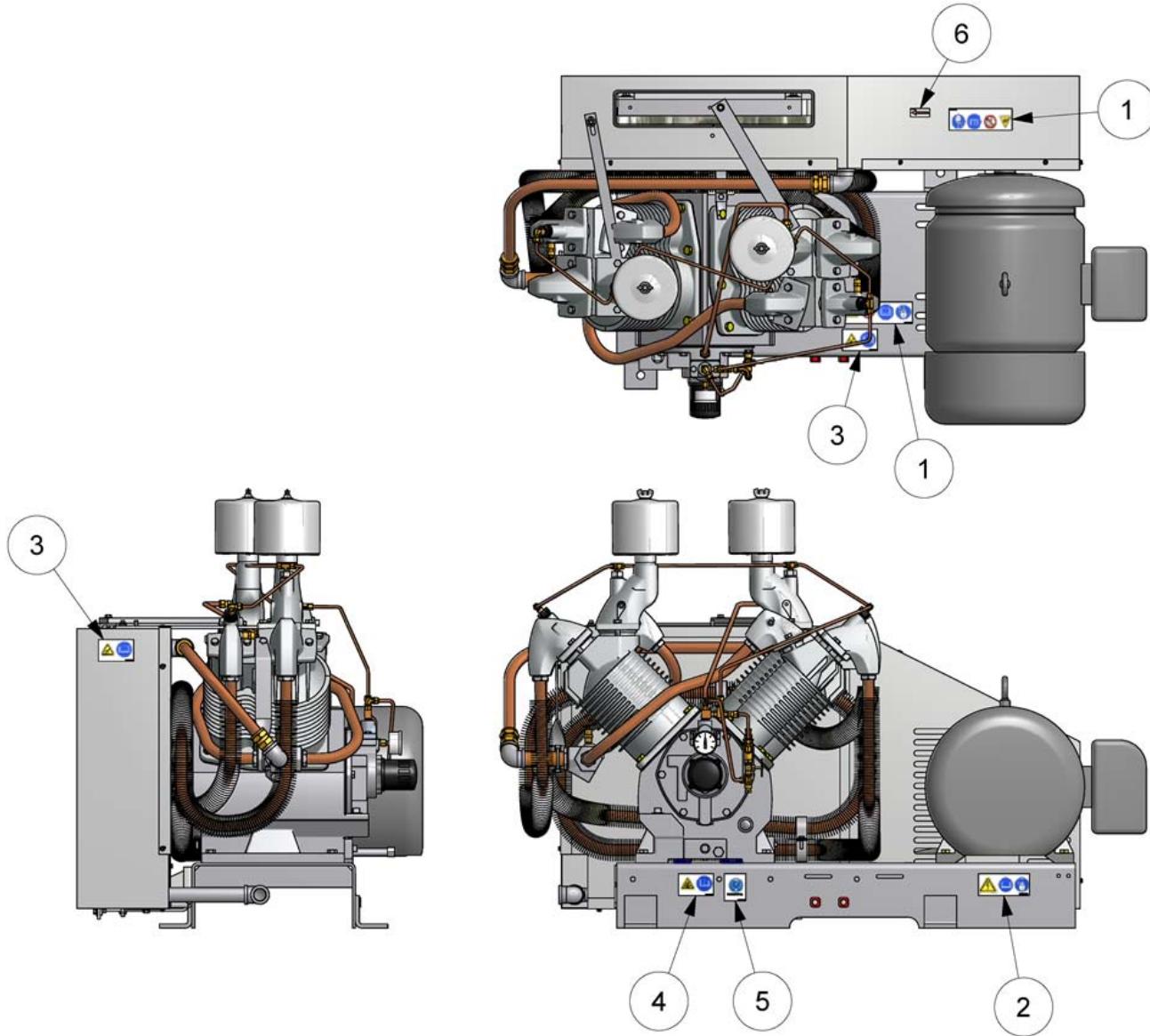
REPAIR PARTS COMPRESSOR, MOTOR & DRIVE GP				037-55-039
ITEM	QTY	PART NO	DESCRIPTION	
1	1	100453	BASEPLATE	
2	1	100343	REPAIR PARTS COMPRESSOR PL70A	
3	2	100426	INTAKE FILTER	
4	4	100385	SCREW	
5	8	100388	NUT	
6	1	100334	MOTOR, 30HP	
7	4	100383	SCREW	
8	3	100414	WIRE CONNECTOR	
9	1	100432	PULLEY	
10	1	100391	SET SCREW	
11	3	100338	BELT	



REPAIR PARTS AFTERCOOLER & BELTGUARD				037-55-039
ITEM	QTY	PART NO	DESCRIPTION	
1	1	100434	AFTERCOOLER	
2	1	100437	BRACKET	
3	11	100360	SCREW	
4	4	100379	WASHER	
5	1	100435	BRACKET	
6	1	100436	BRACKET	
7	1	100456	BRACKET	
8	2	100398	ELBOW	
9	1	100372	NIPPLE	
10	3	100397	ELBOW	
11	1	100364	DISCHARGE TEE	
12	1	100396	BUSHING	
13	1	100380	STREET ELBOW	
14	1	100461	PRESSURE RELIEF VALVE	
15	1	100370	NIPPLE	
16	1	100440	BRACKET	
17	1	100427	CLAMP	
18	2	100409	TUBE FITTING	
19	1	100452	DISCHARGE TUBE	
20	1	100369	NIPPLE	
21	1	100438	BELT GUARD BACK	
22	1	100439	BELT GUARD BACK	
23	14	100368	SCREW	
24	1	100454	BRACKET	
25	2	100387	NUT	
26	1	100344	BELT GUARD	
27	1	100347	PLATE	
28	1	100455	BRACKET	
29	4 FT	100411	TRIM	



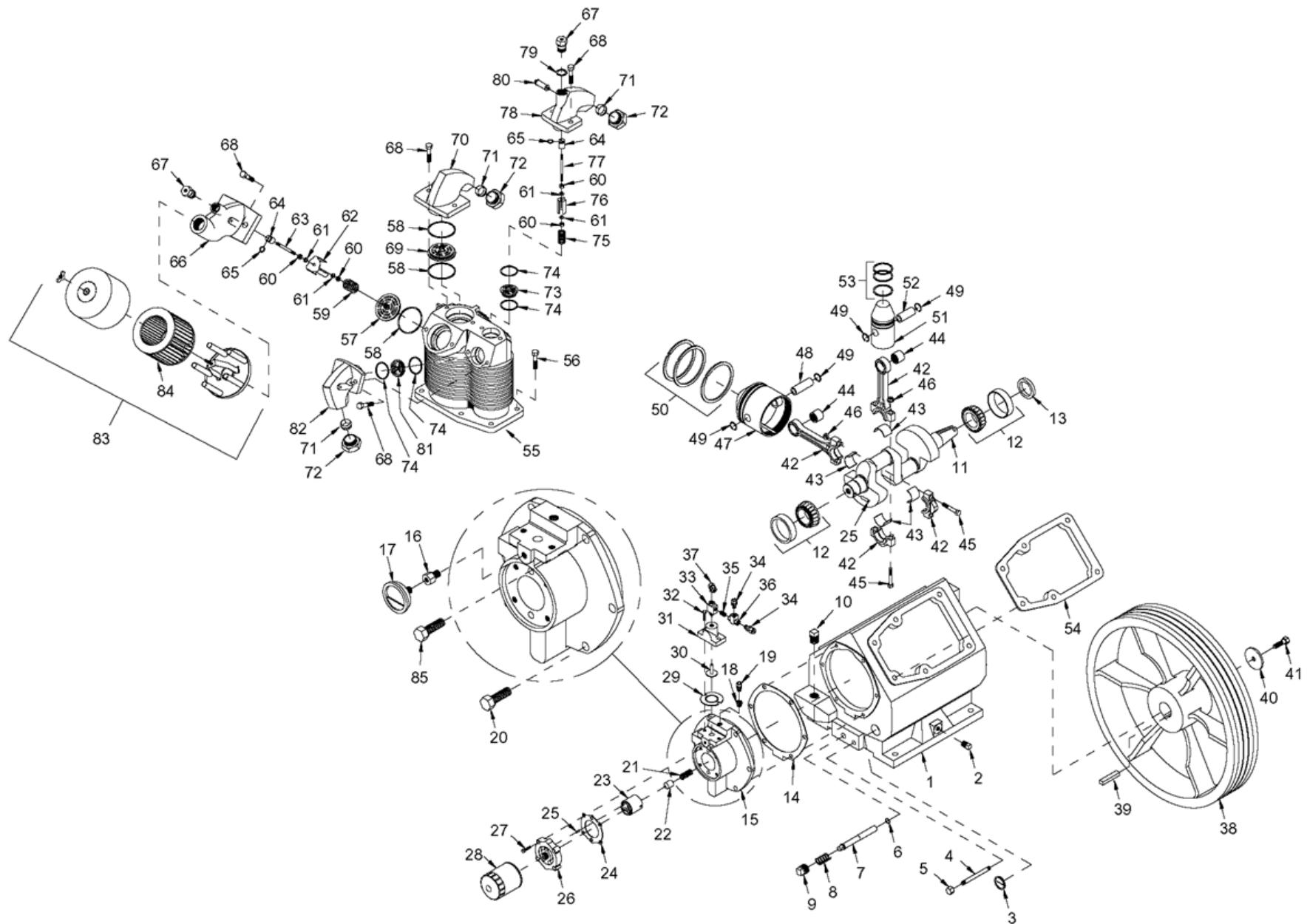
REPAIR PARTS, COMPRESSOR				037-55-039
ITEM	QTY	PART NO	DESCRIPTION	
1	1	100377	1/4 x 1/8" NPT 90 Compression fitting	
2	1	100342	Manifold tube	
3	3	100378	1/4 x 1/4 x 1/8" NPT Tee compression fitting	
4	1	100341	Intermediate tube	
5	1	100363	Manifold tube	
6	1	100446	Head unloader tube	
7	1	100459	Pilot valve (225 – 245 psig)	
8	1	100377	1/4 x 1/4 x 1/8" NPT Tee compression fitting	
9	1	100395	Pipe bushing	
11	1	100413	1/4 x 1/8 NPT x 1/4" Tee compression fitting	
12	1	100339	Shuttle valve tube	
13	1	100340	Control valve tube	
14	1	100392	Pilot valve bracket	
15	1	100384	Hex head cap screw	
16	1	100485	Left intercooler (includes compression fittings)	
17	1	100445	Breather tube	
18	1	100488	Left discharge tube (includes compression fittings)	
19	1	100486	Right intercooler (includes compression fittings)	
20	1	100487	Right discharge tube (includes compression fittings)	
21	2	100418	Ferrule	
22	2	100352	Compression nut	
23	1	100364	Discharge tee	
24	1	100461	Pressure relief valve (For 250 psi units)	
	1	100365	Intercooler clamp (not shown)	
	1	100366	Intercooler clamp (not shown)	
	2	100386	Hex head cap screw (not shown)	
	2	100410	Speednut (not shown)	
	1	100337	3/8 X 1/4" NPT 90 Compression fitting (Breather tube, not shown)	



DECAL GROUP, COMPRESSOR				037-55-039
ITEM	QTY	PART NO	DESCRIPTION	
1	2	100463	DECAL - WARNING, BELT GUARD	
2	1	100460	DECAL - WARNING, ELECTRIC SHOCK	
3	2	100464	DECAL - WARNING, HOT SURFACE	
4	1	100465	DECAL - WARNING, BREATHING AIR	
5	1	100466	DECAL - MAXIMUM PRESSURE	
6	1	100467	DECAL - ROTATION DIRECTION	

## **REPAIR PARTS COMPRESSOR PL70A**

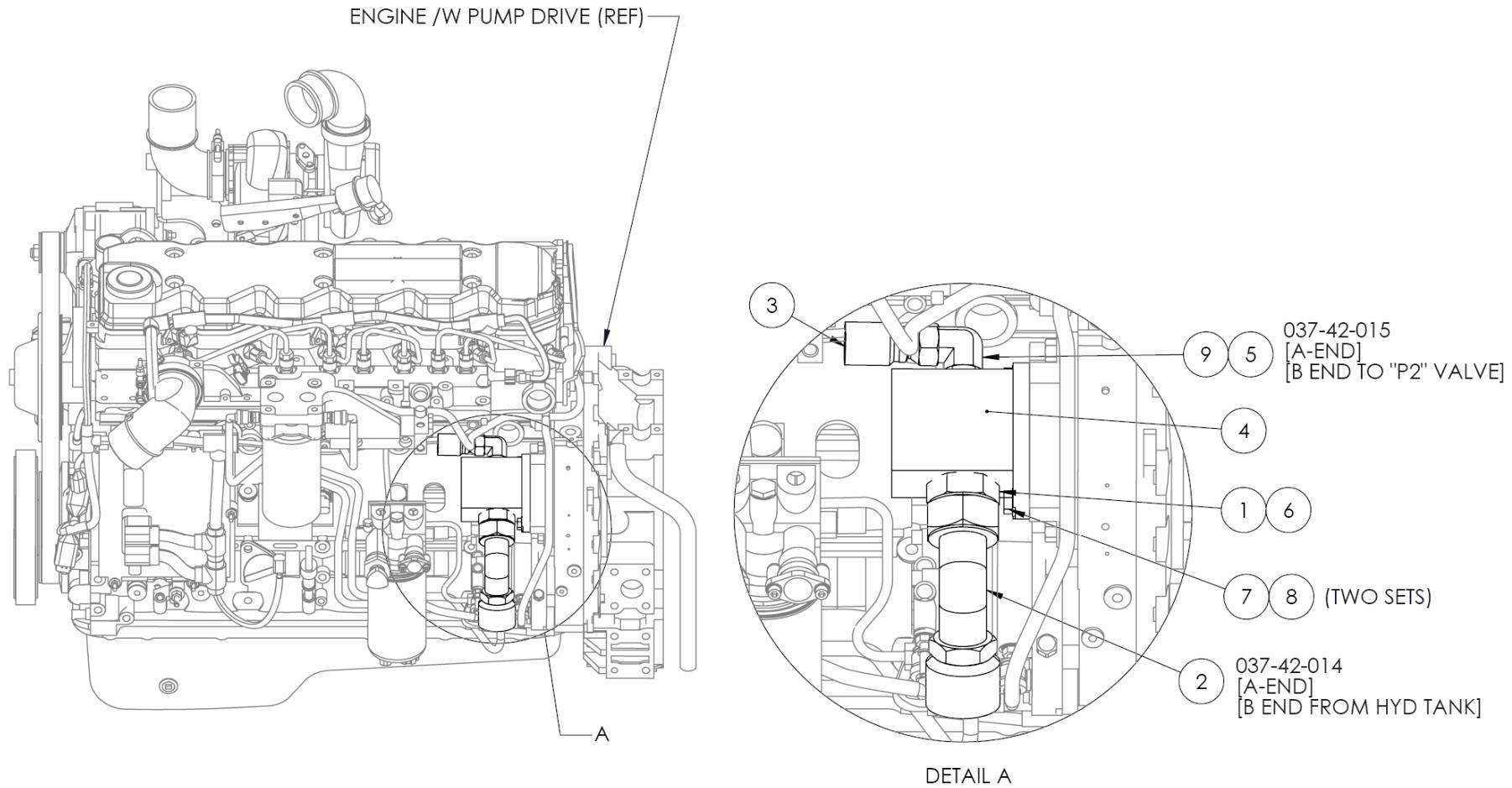
100343



REPAIR PARTS COMPRESSOR PL70A				100343
ITEM	QTY	PART NO	DESCRIPTION	
1	1	100423	Crankcase	
2	1	100336	Pipe plug	
3	1	100457	Oil level gauge	
4	1	100390	Pipe nipple	
5	1	100389	Pipe cap	
6	1	100425	O-Ring	
7	1	100421	Oil screen	
8	1	100424	Spring	
9	1	100399	Pipe plug	
10	1	100335	Pipe plug	
11	1	100451	Crankshaft	
12	2	100475	Main bearing	
13	1	100405	Oil seal	
14	1	100468	Bearing housing gasket set	
15	1	100450	Bearing housing	
16	1	100449	Adaptor	
17	1	100333	Oil pressure gauge	
18	1	100346	Pipe bushing	
19	1	100376	3/8 x 1/4" NPT Straight compression fitting	
20	4	100373	Hex head cap screw	
21	1	100443	Oil pump spring	
22	1	100444	Oil pump plunger	
23	1	100442	Oil pump	
24	1	100448	Oil pump cover gasket	
25	2	100382	Coiled spring pin	
26	1	100447	Oil pump cover	
27	4	100381	Hex head cap screw	
28	1	100441	Oil filter	
29	1	100428	Diaphragm	
30	1	100429	Plunger	

REPAIR PARTS COMPRESSOR PL70A				100343
ITEM	QTY	PART NO	DESCRIPTION	
31	1	100422	Unloader housing	
32	2	100374	Hex head cap screw	
33	1	100430	Control valve	
34	2	100375	1/4 x 1/8" NPT Straight compression fitting	
35	1	100345	Close pipe nipple	
36	1	100431	Shuttle valve	
37	1	100377	1/4 x 1/8" NPT 90 Compression fitting	
38	1	100416	Flywheel	
39	1	100361	Key	
40	1	100350	Flywheel washer	
41	1	100371	Hex head cap screw	
42	4	100469	Connecting rod assembly (includes items 43,44,45 & 46)	
43	4	100472	Bearing insert (sold in pairs)	
44	4	100404	Piston pin bearing	
45	8	100407	Connecting rod bolt	
46	8	100408	Connecting rod nut	
47	2	100489	Low pressure piston with pin	
48	2	100351	Low pressure piston pin	
49	8	100406	Piston pin retaing ring	
50	2	100478	Low pressure piston ring set	
51	2	100484	High pressure piston with pin	
52	2	100348	High pressure piston pin	
53	2	100479	High pressure piston ring set	
54	2	100349	Cylinder flange gasket	
55	2	100417	Cylinder	
56	2	100383	Hex head cap screw	
57	2	100470	Low pressure intake valve assembly	
58	2	100419	Low pressure valve gasket	
59	2	100357	Spring	
60	2	100394	Hex nut	

REPAIR PARTS COMPRESSOR PL70A				100343
ITEM	QTY	PART NO	DESCRIPTION	
61	8	100393	Lock washer	
62	2	100367	Unloader finger	
63	2	100356	Unloader piston rod	
64	4	100401	Unloader piston	
65	4	100403	O-Ring	
66	2	100433	Low pressure intake manifold	
67	4	100402	Unloader cylinder	
68	16	100412	Hex head cap screw	
69	2	100471	Low pressure discharge valve assembly	
70	2	100353	Low pressure discharge manifold	
71	6	100418	Ferrule	
72	6	100352	Compression nut	
73	2	100476	High pressure intake valve assembly	
74	8	100420	High pressure valve gasket	
75	2	100358	Spring	
76	2	100355	Unloader finger	
77	2	100359	Unloader piston rod	
78	2	100354	High pressure intake manifold	
79	2	100400	Unloader cylinder gasket	
80	2	100462	Interstage pressure relief valve	
81	2	100477	High pressure discharge valve assembly	
82	2	100362	High pressure discharge manifold	
83	2	100426	Intake filter	
84	2	100415	Intake filter element	
85	2	100458	Hex head cap screw	
86	1	100482	Complete compressor pump gasket set (items 6,14,24 & 54)	
87	2	100481	Low pressure piston kit (items 47 & 50)	
88	2	100480	High pressure piston kit (items 51 & 53)	
89	1	100483	Complete compressor pump ring set (items 50 & 53)	
90	1	100473	Valve set with gaskets (items 57, 58, 69,73, 74 & 81)	
91	1	100474	Valve gasket kit (items 58 & 74)	

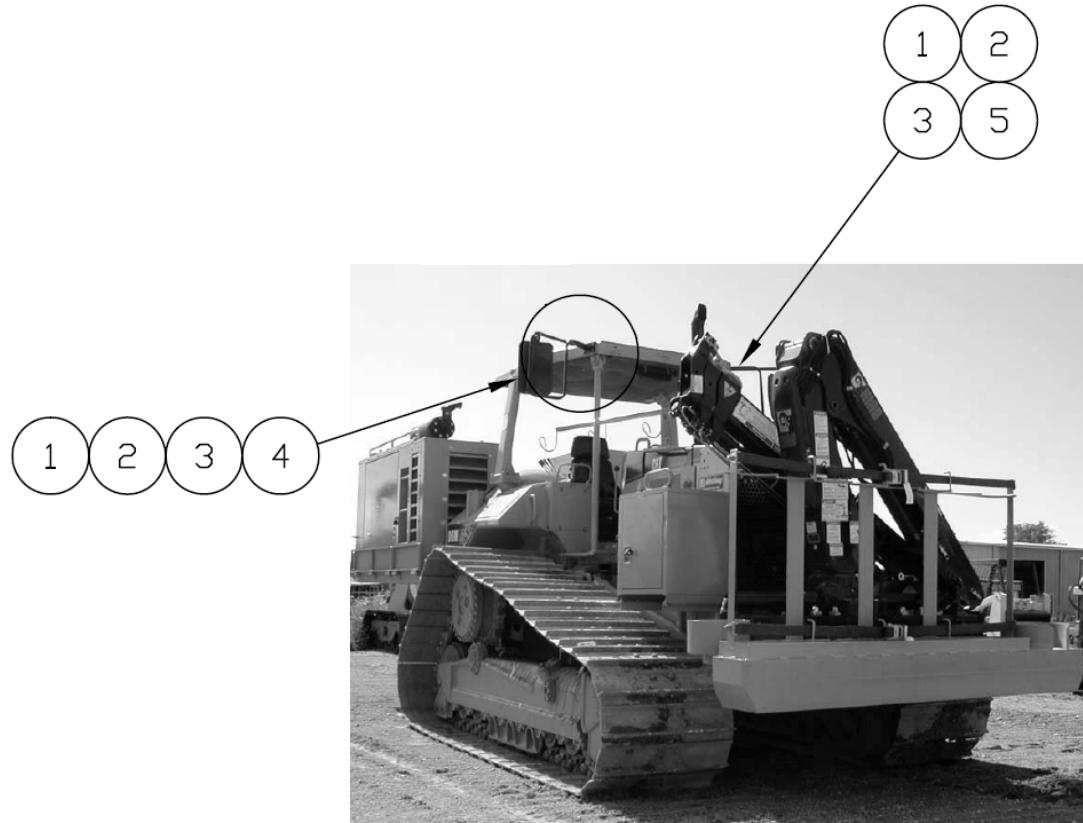


037-50-148 REQUIRED IF  
NOT PRESENT ON GENSET

GP - CRANE HYD PUMP – S2 - ENG				037-60-020
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-43-003	FF - ADAPTOR STOR -16 / JIC M -24	
2	1	037-42-014	FH - HYD HOSE CRANE PUMP SUC	
3	1	037-42-015	AS - HYD HOSE CRANE PUMP PRESSURE	
4	1	037-60-015	FC-PUMP GEAR CCW	
5	1*	CAT# 3D-2824	O-RING STOR -12	
6	1*	CAT# 7M-8485	O-RING STOR -16	
7	2	CAT# 8T-4195	HDW - BOLT M10X1.5X30	
8	2	CAT# 8T-5360	HDW - 7/16 FLAT WASHER	
9	1	PARK# 12 C5OX-S	FF - 90 DEG EL, STOR -12 / JIC M -12	

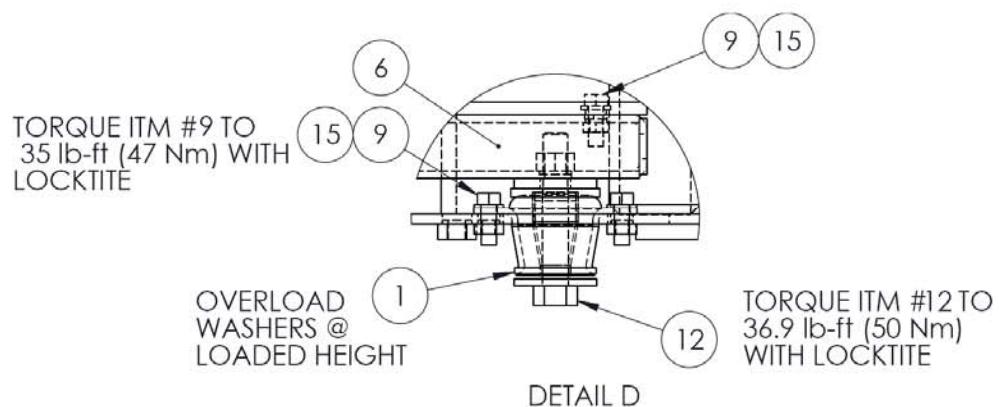
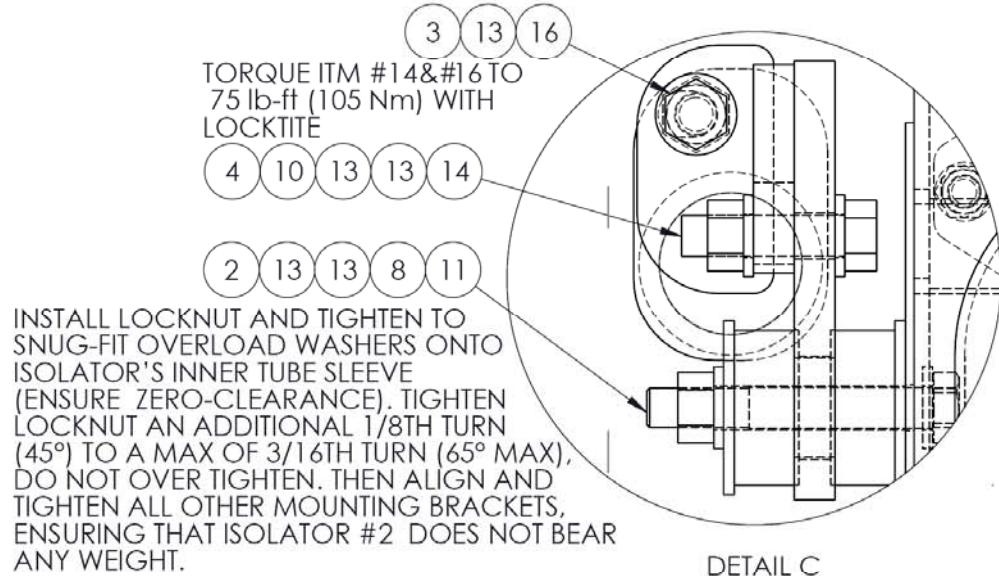
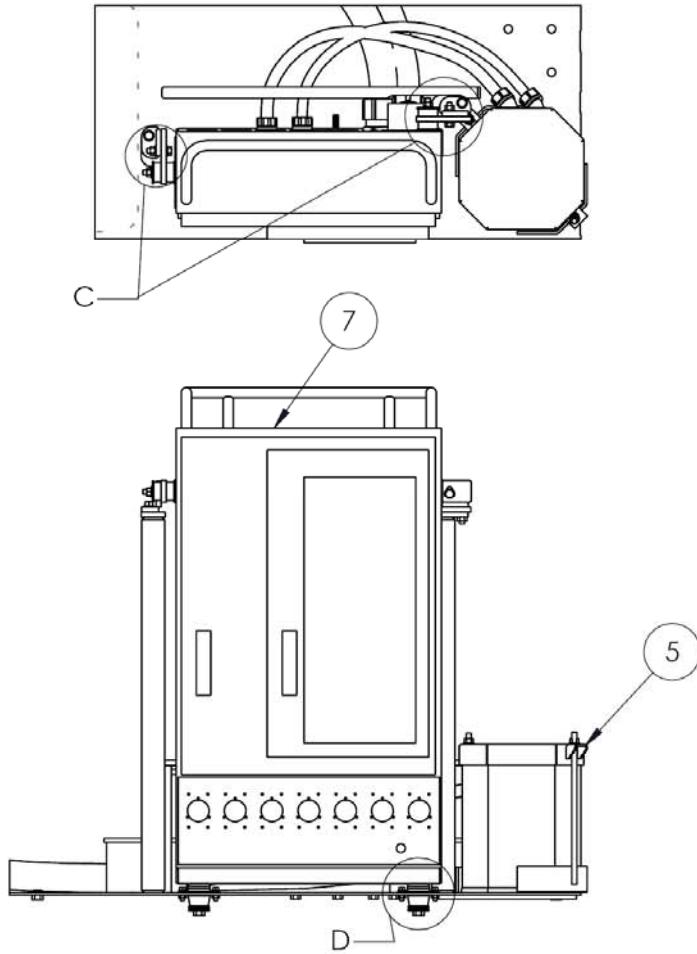
\*SHOWN FOR PARTS ONLY (C/W FITTINGS)

NOTES:

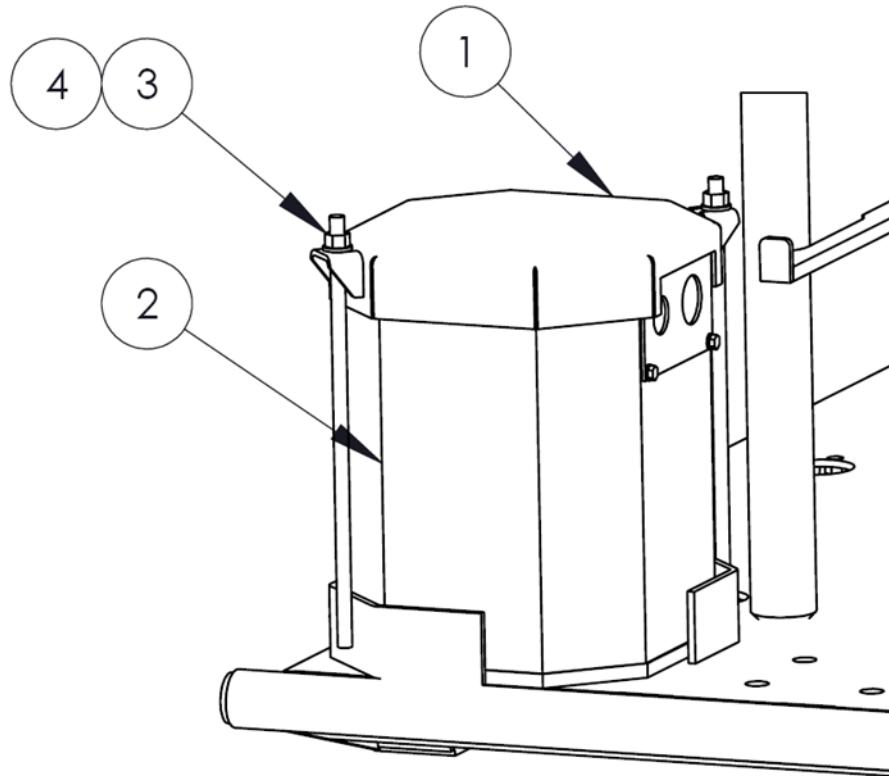


037-50-50-104A

ITEM	QTY	PART NO	DESCRIPTION
1	2	037-63-051	PLT – WELD ON MTG OPERATOR'S MIRROR
2	8	CAT# 5S-7379	HEX HD BOLT 3/8-16NC X 7/8
3	8	CAT# 8T-4896	WASHER, FLAT HARD 3/8
4	1	037-63-053	AS – TRACTOR MIRROR RH
5	1	037-63-052	AS – TRACTOR MIRROR LH



GP – CONTROL / DISTRIBUTION CENTER				037-63-090
ITEM	QTY	PART NO	DESCRIPTION	
1	4	037-05-021	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND	
2	2	037-05-022	AS - VIBRATION ISOLATOR - 2-PIECE CENTER BONDED	
3	2	037-14-043	AS - ELEC BOX ISO STAY MTG	
4	2	037-14-046	PLT - ELEC BOX ISO STAY ADJ BRKT	
5	1	037-63-031	GP - TRANSFORMER	
6	1	037-63-044	AS - MOUNTING FRAME CONT/DIST CTR	
7	1	037-63-104	AS - CONTROL/DISTRIBUTION CTR MK IV	
8	2	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
9	14	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"	
10	2	CAT# 6V-8188	HDW – NUT ½-13 ZINC PLATED	
11	2	CAT# 7X-0328	HDW - BOLT - 1/2-13 UNC x 3 1/2" HEX	
12	4	CAT# 7X-0351	HDW - BOLT - 5/8-11 UNC X 3.75 HEX	
13	10	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
14	2	CAT# 8T-4835	HDW - BOLT - 1/2-13 UNC X 2.0 HEX	
15	14	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
16	2	CAT# 8T-8919	BOLT - 1/2-13 X 1.75 UNC HEX	

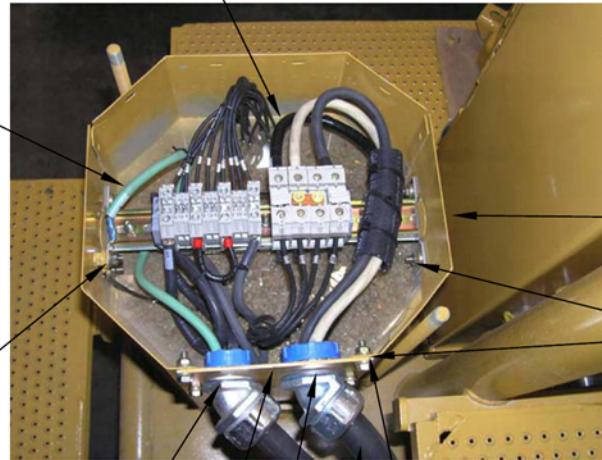


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-63-033	AS - TRANSFORMER CAP
2	1	037-63-038	AS - TRANSFORMER
3	2	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC
4	2	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED

NOTE: SECONDARY  
GRN COND TAPED  
BLACK AND USED AS  
"X1" (HOT)

CONNECTIONS  
TO BE MADE BY  
A LICENSED  
ELECTRICIAN.

PRIMARY GRN  
COND USED  
AS XTR CASE  
GROUND



SMALL Ø  
(PRIMARY CABLE)

LARGE Ø  
(SECONDARY CABLE)

037-05-63-053A  
DRILL Ø5/16 THRU TRANSFORMER CASING  
4 PLACES AS SHOWN.  
USE ITM 1 AS TEMPLATE FOR CENTERS.  
TOP OF ITM 1 TO BE LEVEL WITH TOP EDGE  
OF TRANSFORMER CASING.  
NOTE POSITIONS OF SMALL/LARGE HOLES.

3 4

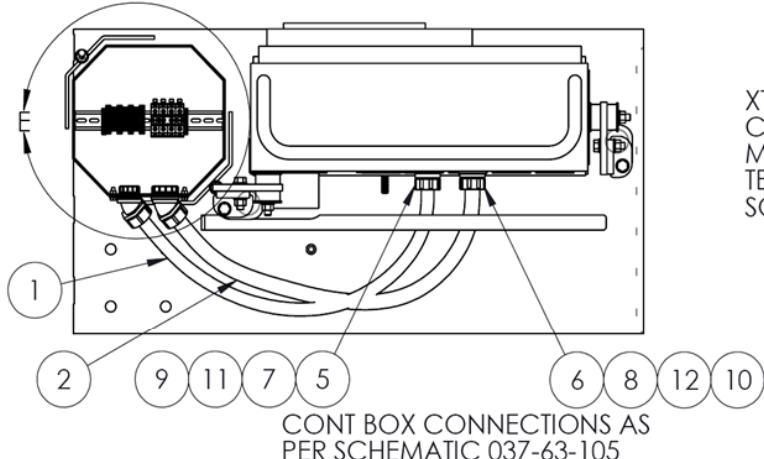
1

6

5

2 3 4

ITEM	QTY	PART NO	DESCRIPTION
1	1	037-63-039	PLT - TRANSFORMER BULKHEAD
2	8	CAT# 4M-5281	HEX HD BOLT, 1/4-20NC X 3/4 IN
3	17	CAT# 8T-4206	WASHER, FLAT HARD 1/4 IN
4	9	CAT# 2D-6235	HEX NUT, HARD 1/4-20NC SELF-LOCK
5	1	037-63-043	TRANSFORMER
6	1	037-40-058	GP - WIRING TRANSFORMER

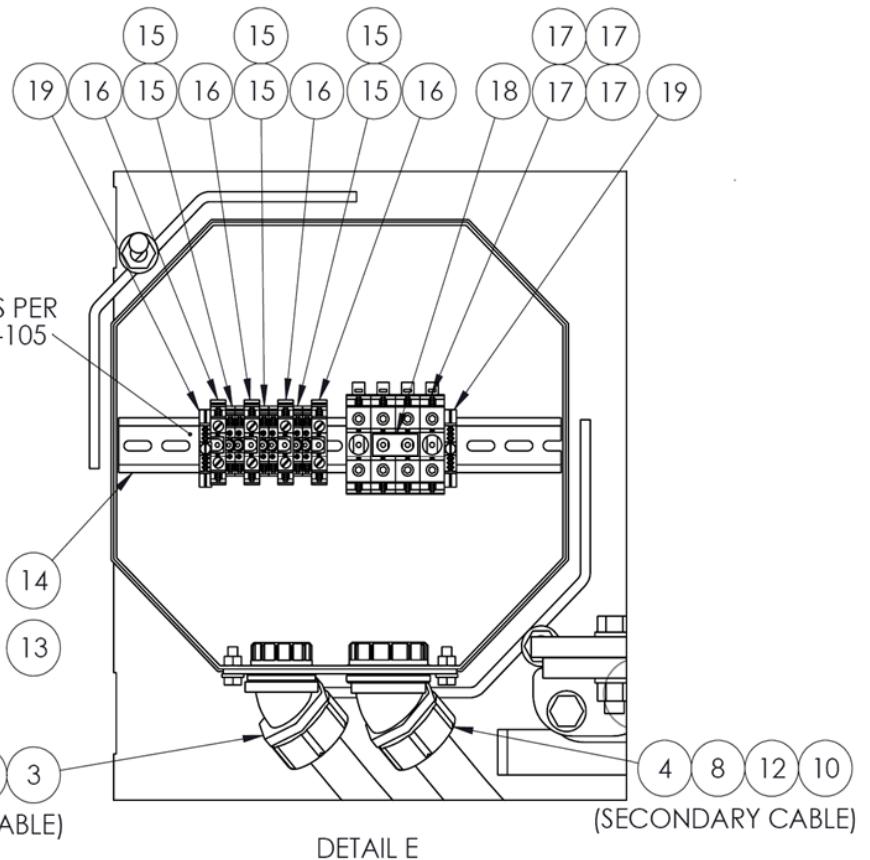


CONNECTIONS  
TO BE MADE BY  
A LICENSED  
ELECTRICIAN.

XTR TRANSFORMER  
CONNECTIONS  
MARKED ON  
TERMINALS, AND AS PER  
SCHEMATIC 037-63-105

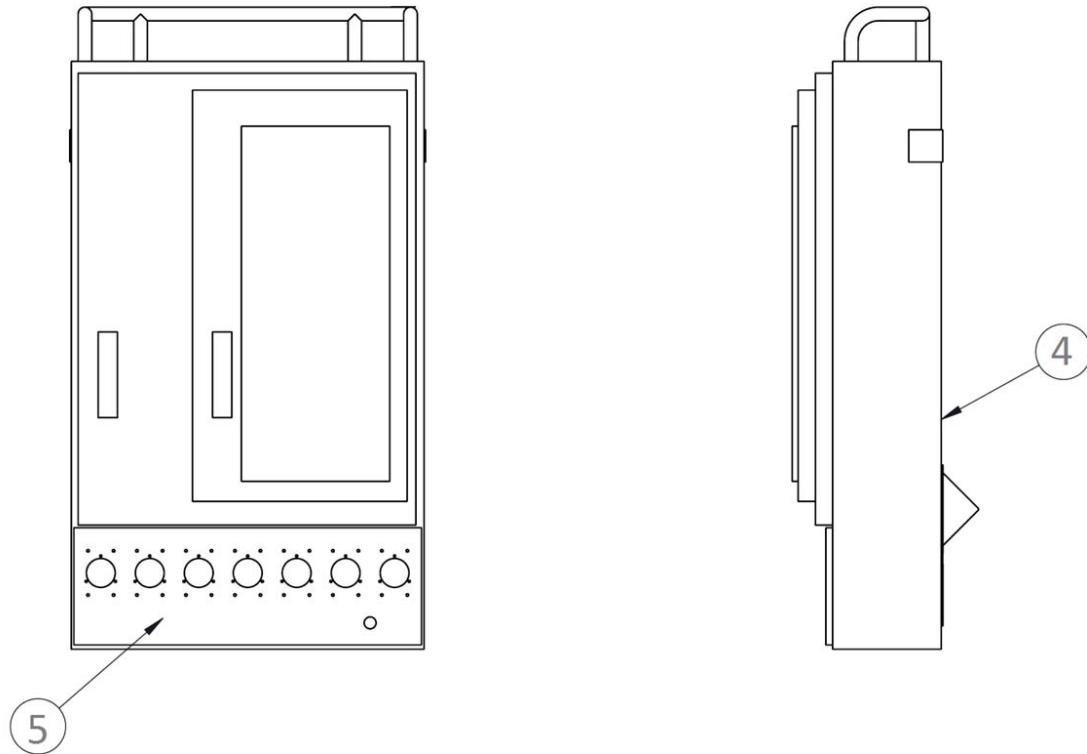
SUPPORT  
NOT SHOWN

9 11 7 3  
(PRIMARY CABLE)



GP – WIRING TRANSFORMER XTR				037-40-058
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-40-043	ELEC - PRIMARY TRANSFORMER CABLE	
2	1	037-40-044	ELEC - SECONDARY TRANSFORMER CABLE	
3	1	100252	ELEC - LIQUIDTIGHT 45 DEG CONNECTOR 1"	
4	1	100257	ELEC - LIQUIDTIGHT 45 DEG CONNECTOR 1 1/4"	
5	1	100249	ELEC - LIQUIDTIGHT STRAIGHT CONNECTOR 1"	
6	1	100254	ELEC - LIQUIDTIGHT STRAIGHT CONNECTOR 1 1/4"	
7	2	100251	ELEC - LIQUIDTIGHT SEALING GASKET 1"	
8	2	100256	ELEC - LIQUIDTIGHT SEALING GASKET 1 1/4"	
9	2	100291	ELEC - LIQUIDTIGHT SEALING GASKET 1 1/4"	
10	2	100292	ELEC - PLASTIC BUSHING 1 1/4"	
11	2	006-40-011	1" STEEL LOCKNUT-ZINC PLATED. FOR USE WITH RIGID/IMC CONDUIT.	
12	2	100294	ELEC - LOCK NUT 1 1/4"	
13	2	100295	TERMINAL SUPPORT BRACKET	
14	2	100296	TERMINAL SUPPORT	
15	1	100297	H2, H3, H5, H6, H8, H9, TERMINAL	
16	1	100298	H1, H4, H7, H10, TERMINAL	
17	6	100299	X1, X2, X3, X4 TERMINAL	
18	4	100300	X2/X3 JUMPER	
19	1	100301	TERMINAL END	

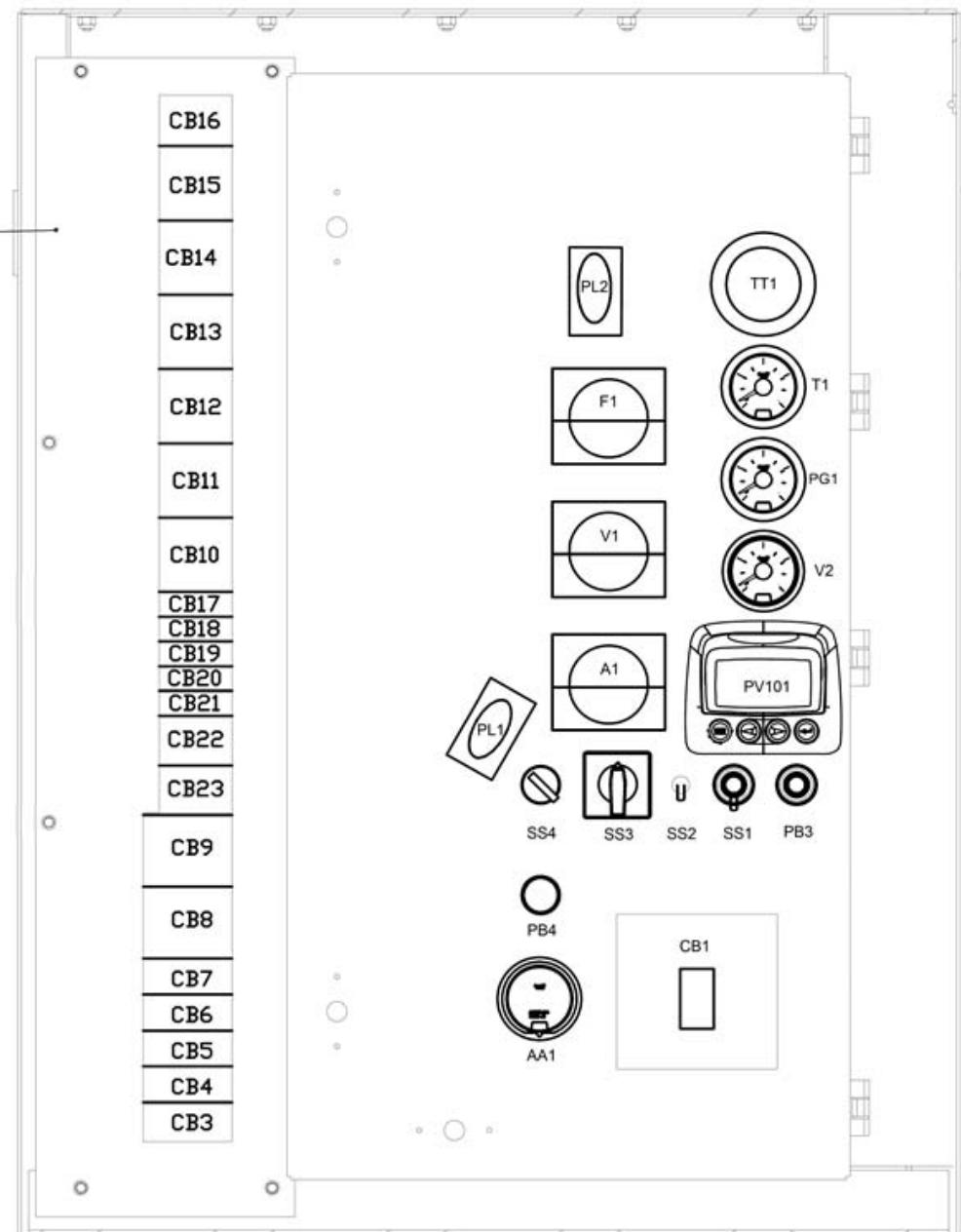
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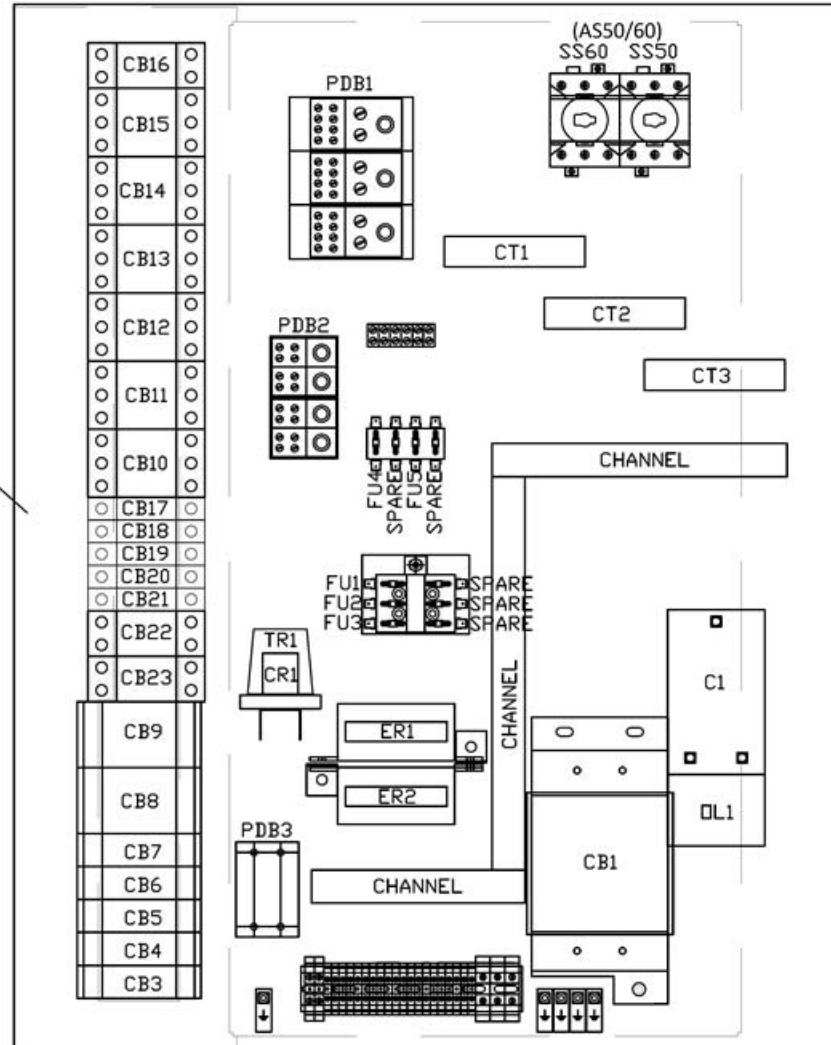
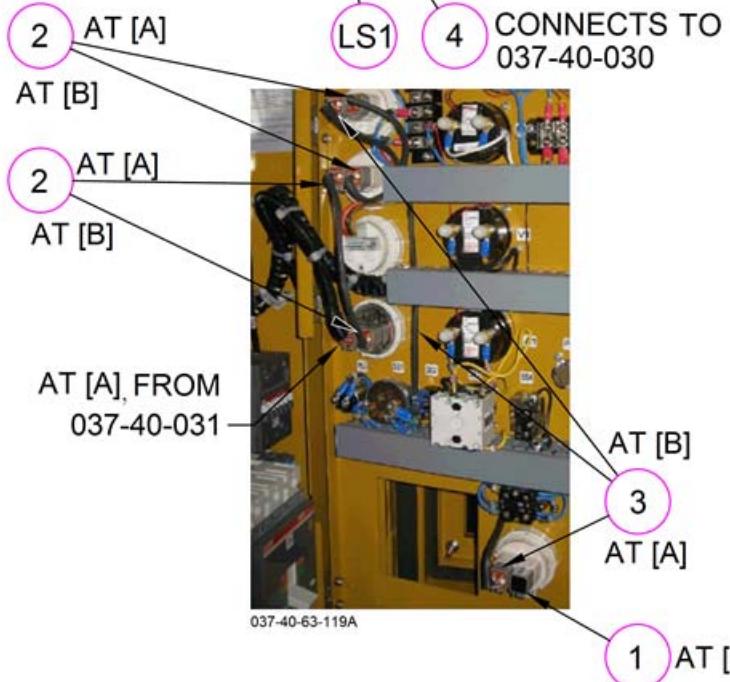
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-63-105	AS - REPLT PARTS PWR PLUG & CONT COMPONENTS OPERATOR - MK IV
2	1	037-63-106	AS - REPLT PARTS ENCLOSURE - MK IV
3	1	037-63-107	AS - REPLT PARTS MISC COMPONENTS & HDWR MKIV
4	1	037-63-109	ELEC - MKIV - WELDER ELECTRICAL CONTROL/DISTRIBUTION
5	1	037-63-112	OPT - RECEPTACLE PLATE



VIEW INSIDE FRONT PANEL

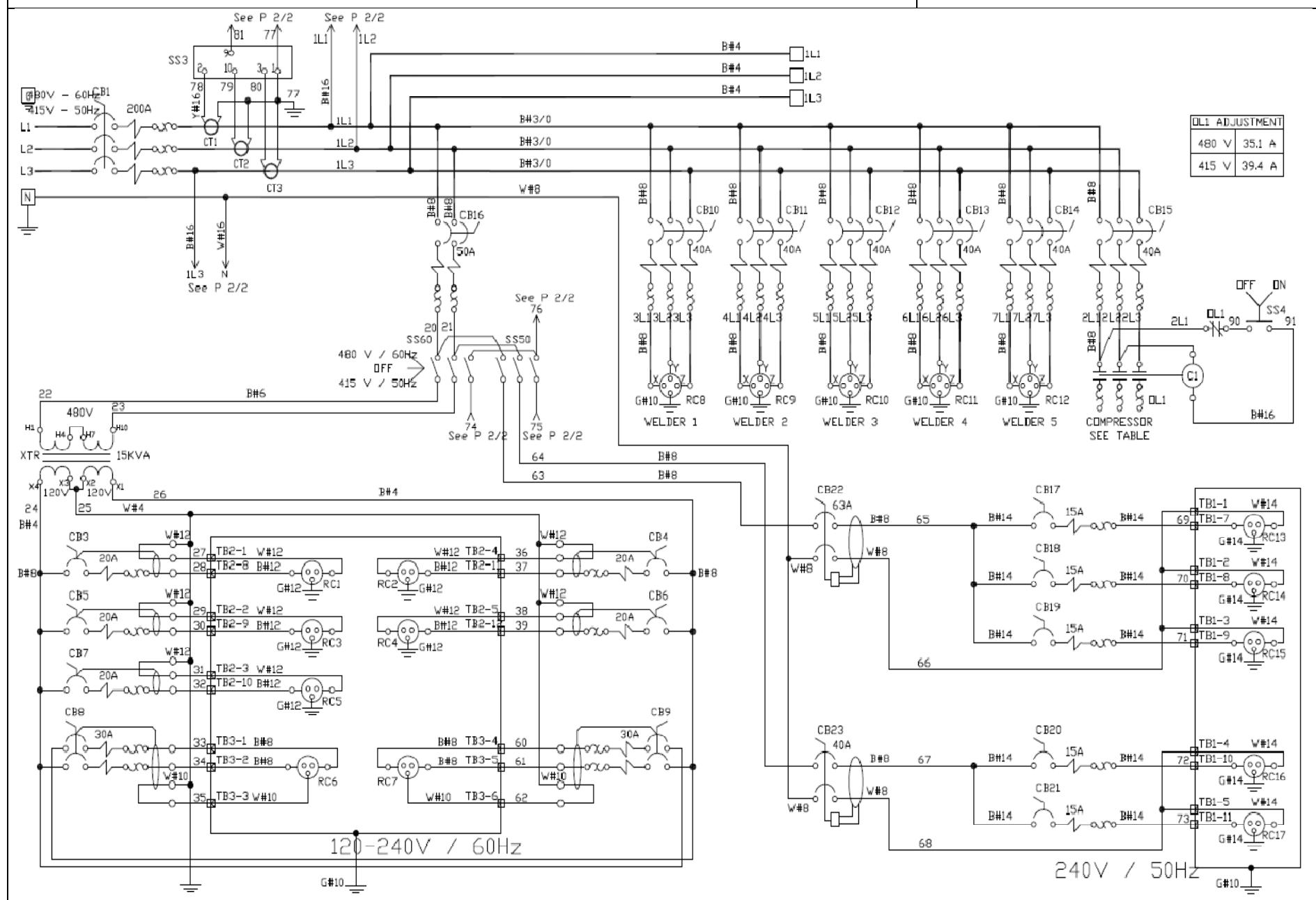


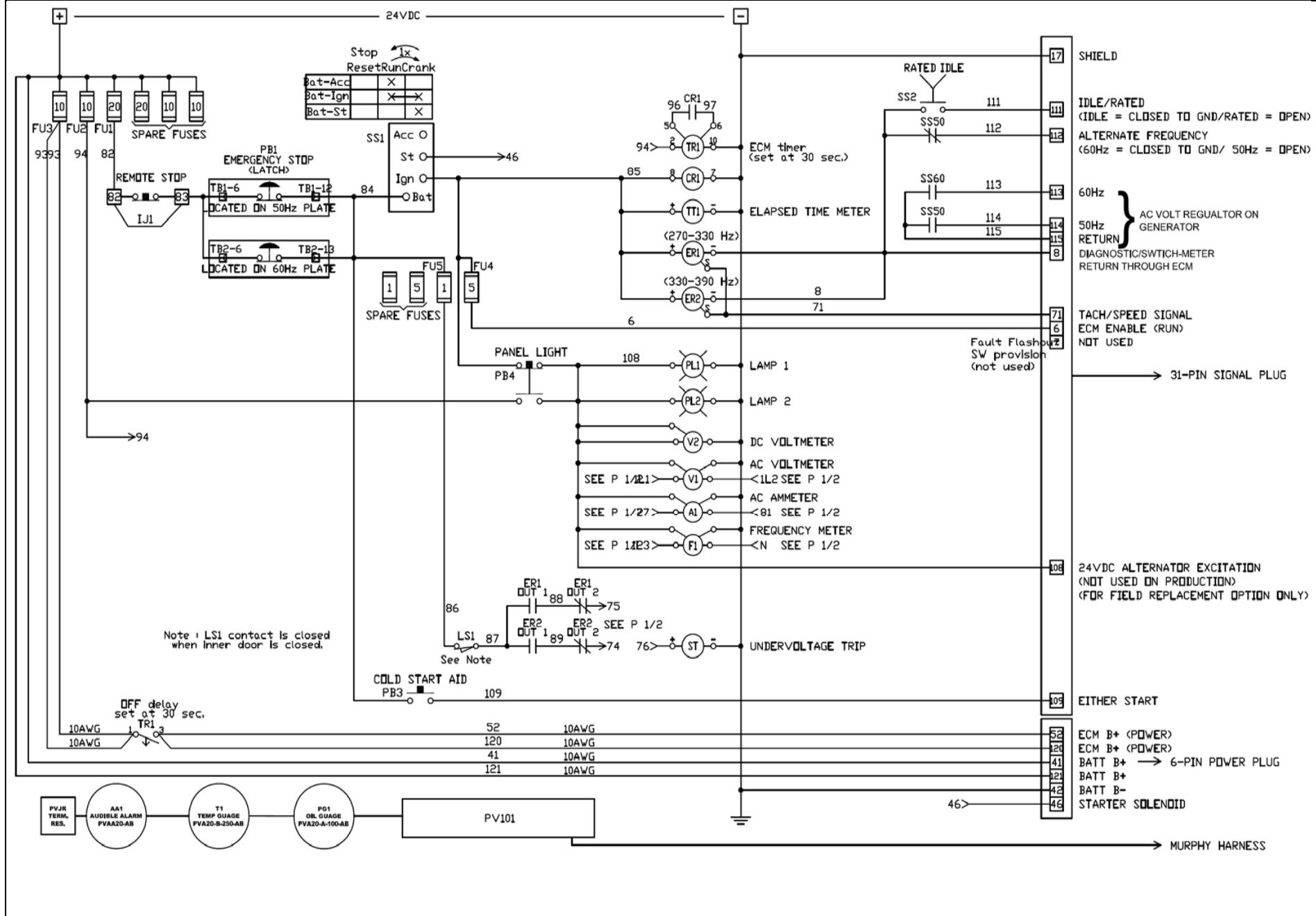
AS - REPLT PARTS, PWR PLUG & CONT COMPONENTS, OPERATOR - MK IV				037-63-105
ITEM	QTY	PART NO	DESCRIPTION	
A1	1	100162	AC AMMETER 200A	
V1	1	100163	AC VOLTMETER 500V	
F1	1	100164	AC FREQUENCY METER	
PB3	1	100161	PUSH BUTTON (BLACK) BODY + 1NO	
PB4	1	100152	PUSH BUTTON (WHITE)	
	1	100175	1 NO CONTACT	
	1	100176	1 NC CONTACT	
SS1	1	100160	SPRING RETURN 3 POS SS	
SS2	1	100159	SELECTOR SWITCH 2 POS	
SS3	1	100171	AMMETER SWITCH	
SS4	1	100151	SELECTOR SWITCH 2POS	
	1	100175	1 NO CONTACT	
PL1	1	100168	24VDC LED	
PL2	1	100168	24VDC LED	
PV101	1	037-63-099	POWERVIEW DISPLAY	
PG1	1	037-63-094	LOW OIL PRESSURE GAUGE	
T1	1	037-63-098	HIGH TEMP GAUGE	
TT1	1	037-63-095	ELAPSED TIME METER	
V2	1	037-63-014	DC VOLTMETER	
AA1	1	037-63-103	AUDIBLE ALARM	
TB1	1	100192	PLUG - 12 PIN FM 50Hz/240VAC	
	1	100196	12 PINS SECURE KEY	
	12	100193	FEMALE PIN	
TB2	1	100198	PLUG - 14 PIN FM 60Hz/120VAC	
	1	100197	14 PINS SECURE KEY	
	12	100193	FEMALE PIN (10-12AWG)	
TB3	1	100191	PLUG - 6 PIN FM 60Hz/240VAC	
	1	100195	6 PINS SECURE KEY	
	2	100193	FEMALE PIN (10-12AWG)	
	4	100194	FEMALE PIN (8AWG)	



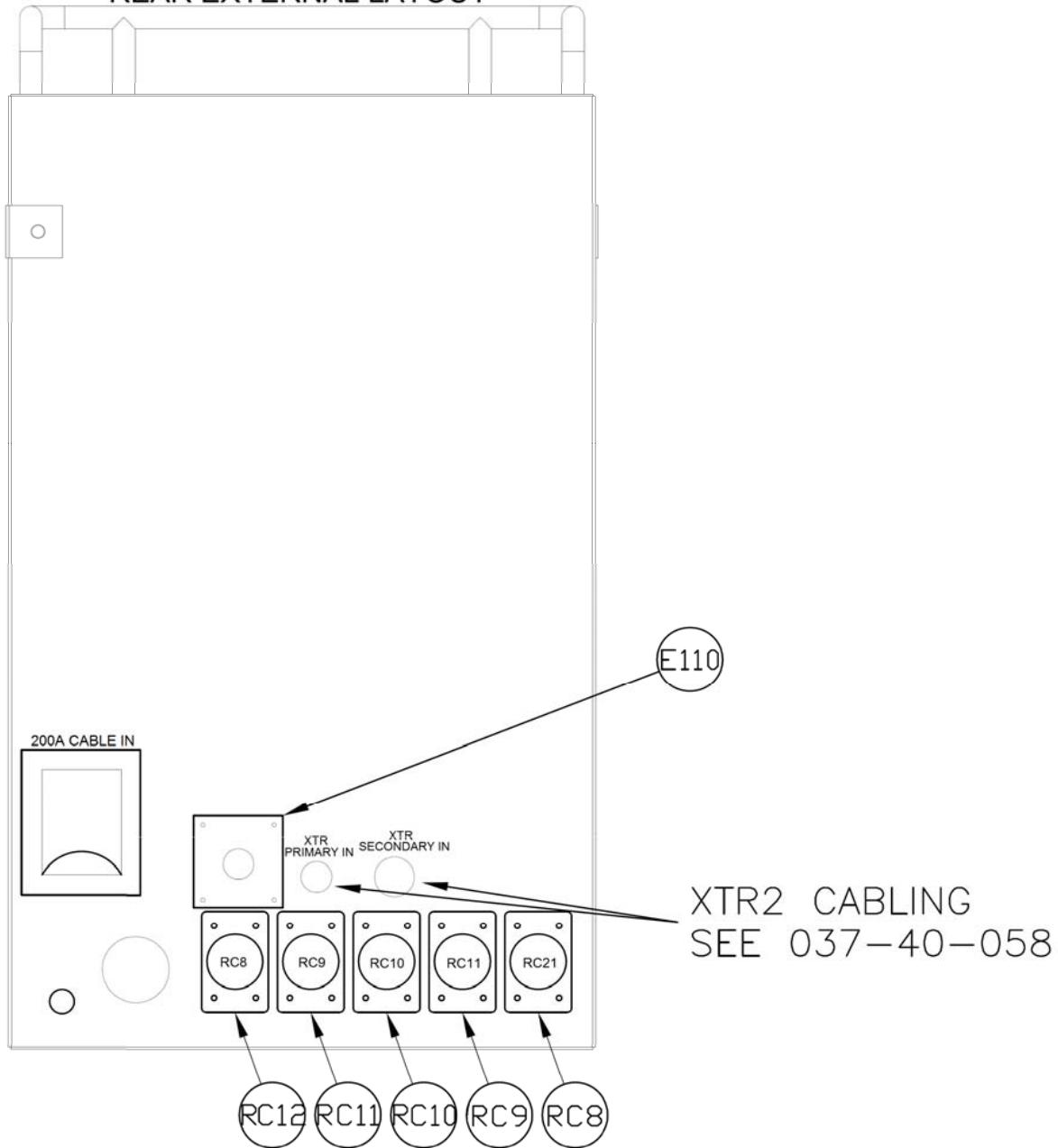
AS - REPLT PARTS, PWR PLUG & CONT COMPONENTS, ELECTRICAL - MK IV				037-63-105
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-63-102	TERMINATING RESISTOR	
2	2	037-63-100	HARNESS 9IN.	
3	1	037-63-110	HARNESS 24IN.	
4	1	037-40-031	WIRING HARNESS	
PDB1	1	100167	TERMINAL BLOC 3 POLES	
PDB2	2	100165	TERMINAL BLOC 2 POLES	
PDB3	1	100165	TERMINAL BLOC 2 POLES	
PDB4	1	100166	NEUTRAL CONDUCTOR CONNECTOR (NOT SHOWN)	
CT1	1	100186	CURRENT TRANSFORMER 200/5	
CT2	1	100186	CURRENT TRANSFORMER 200/5	
CT3	1	100186	CURRENT TRANSFORMER 200/5	
ER1	1	100187	DUAL LEVEL SPEED SWITCH	
ER2	1	100188	DUAL LEVEL SPEED SWITCH	
LS1	1	100174	LIMIT SWITCH INNER DOOR	
CB1	1	100147	BREAKER 200A 3 POLES WITH UNDERVOLTAGE TRIP	
CB1 SHUNT TRIP	1	100506	SHUNT TRIP (200 AMP BREAKER)(PART OF CB1)	
CB3	1	100177	BREAKER 20A 1 POLE BREAKER 20A 1 POLE CGFI 5 MA	
CB4	1	100177	BREAKER 20A 1 POLE BREAKER 20A 1 POLE CGFI 5 MA	
CB5	1	100177	BREAKER 20A 1 POLE BREAKER 20A 1 POLE CGFI 5 MA	
CB6	1	100177	BREAKER 20A 1 POLE BREAKER 20A 1 POLE CGFI 5 MA	
CB7	1	100177	BREAKER 20A 1 POLE BREAKER 20A 1 POLE CGFI 5 MA	
CB8	1	100178	BREAKER 30A 2 POLE CGFI 5 MA	
CB9	1	100178	BREAKER 30A 2 POLE CGFI 5 MA	
CB10	1	100153	BREAKER 40A 3 POLES	
CB11	1	100153	BREAKER 40A 3 POLES	
CB12	1	100153	BREAKER 40A 3 POLES	
CB13	1	100153	BREAKER 40A 3 POLES	
CB14	1	100153	BREAKER 40A 3 POLES	
CB15	1	100153	BREAKER 40A 3 POLES	
CB16	1	100148	BREAKER 50A 2 POLES	
CB17	1	100154	BREAKER 15A 1 POLE	
CB18	1	100154	BREAKER 15A 1 POLE	
CB19	1	100154	BREAKER 15A 1 POLE	

AS - REPLT PARTS, PWR PLUG & CONT COMPONENTS, ELECTRICAL - MK IV				037-63-105
CB20	1	100154	BREAKER 15A 1 POLE	
CB21	1	100154	BREAKER 15A 1 POLE	
CB22	1	100155	BREAKER 15A 1 POLE	
CB23	1	100156	BREAKER 15A 1 POLE	
AS50/60	1	100507	SS50/SS60 DISCONNECT SWITCH FOR MK4	
SS50	1	100189	DISCONNECT SWITCH 63A (PART OF AS50/60)	
	1	100169	AUXILIARY CONTACT 1NO/1NC (PART OF AS50/60)	
SS60	1	100189	DISCONNECT SWITCH 63A (PART OF AS50/60)	
	1	100169	AUXILIARY CONTACT 1NO/1NC (PART OF AS50/60)	
SS50/60	1	100170	MECHANICAL INTERLOCK (PART OF AS50/60)	
C1	1	100157	CONTACTOR 415/480V 50/60HZ	
OL1	1	100158	OVERLOAD 36-52A	
n/a	1	100180	AUTOMOTIVE FUSE HOLDER 6POS	
FU1	1	100181	AUTOMOTIVE FUSE 20A	
FU2	1	100182	AUTOMOTIVE FUSE 10A	
FU3	1	100182	AUTOMOTIVE FUSE 10A	
n/a	1	100181	AUTOMOTIVE FUSE 10A	
n/a	3	100182	AUTOMOTIVE FUSE 10A	
n/a	1	100185	AUTOMOTIVE FUSE HOLDER 4POS	
FU4	1	100184	AUTOMOTIVE FUSE 5A	
FU5	1	100183	AUTOMOTIVE FUSE 1A	
n/a	1	100184	AUTOMOTIVE FUSE 5A	
n/a	1	100183	AUTOMOTIVE FUSE 1A	
CR1	1	100172	CONTROL RELAY	
	1	100173	CONTROL RELAY BASE	
	1	037-63-093	TIMER	
TR1	1	100190	BASE FOR TIMER	





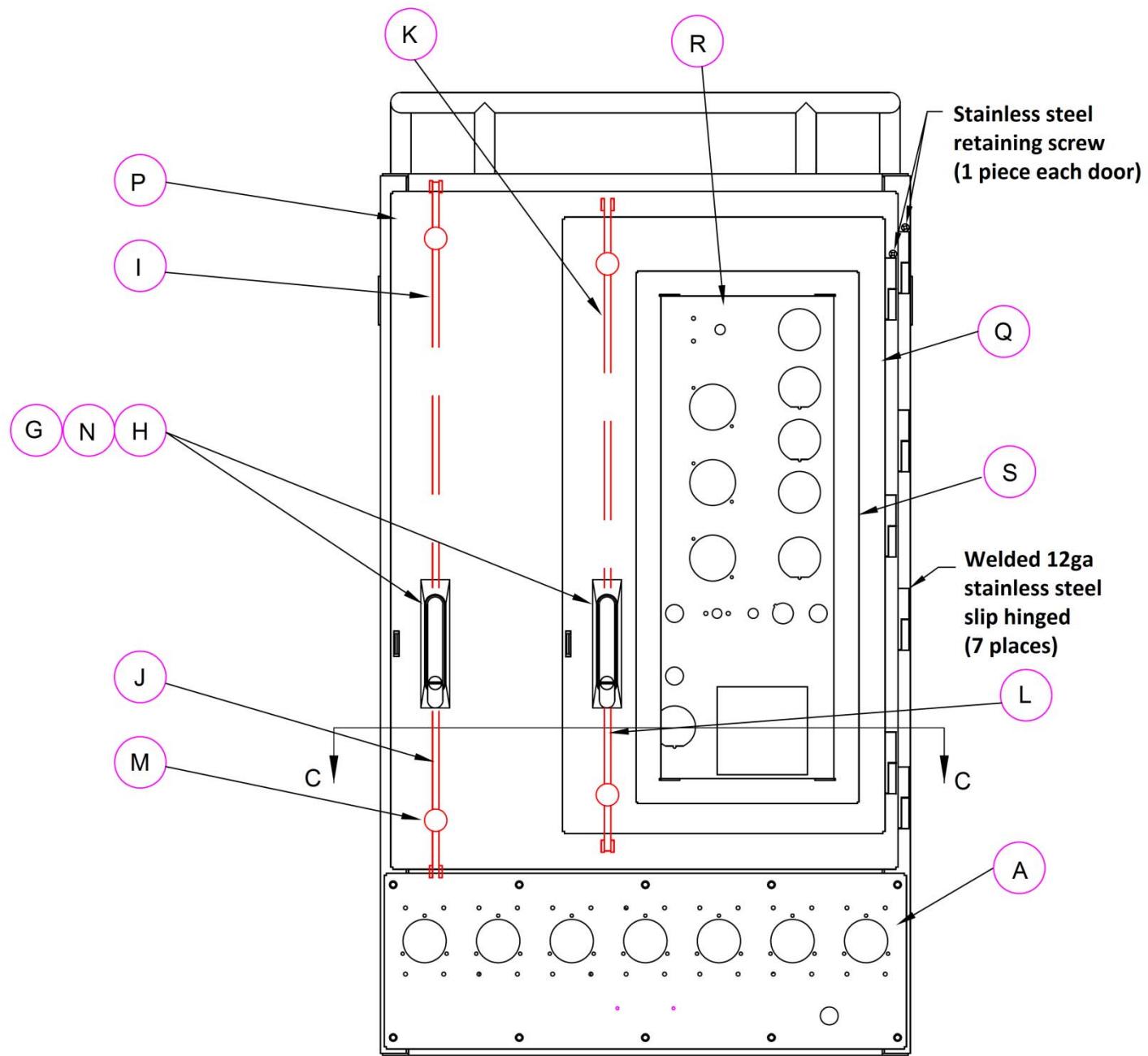
## REAR EXTERNAL LAYOUT

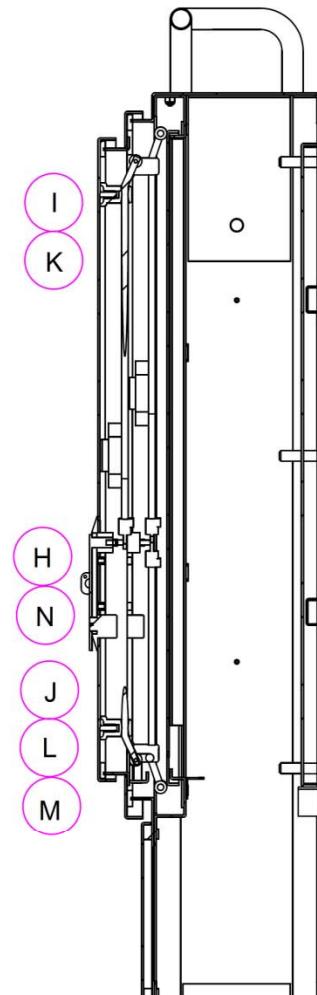
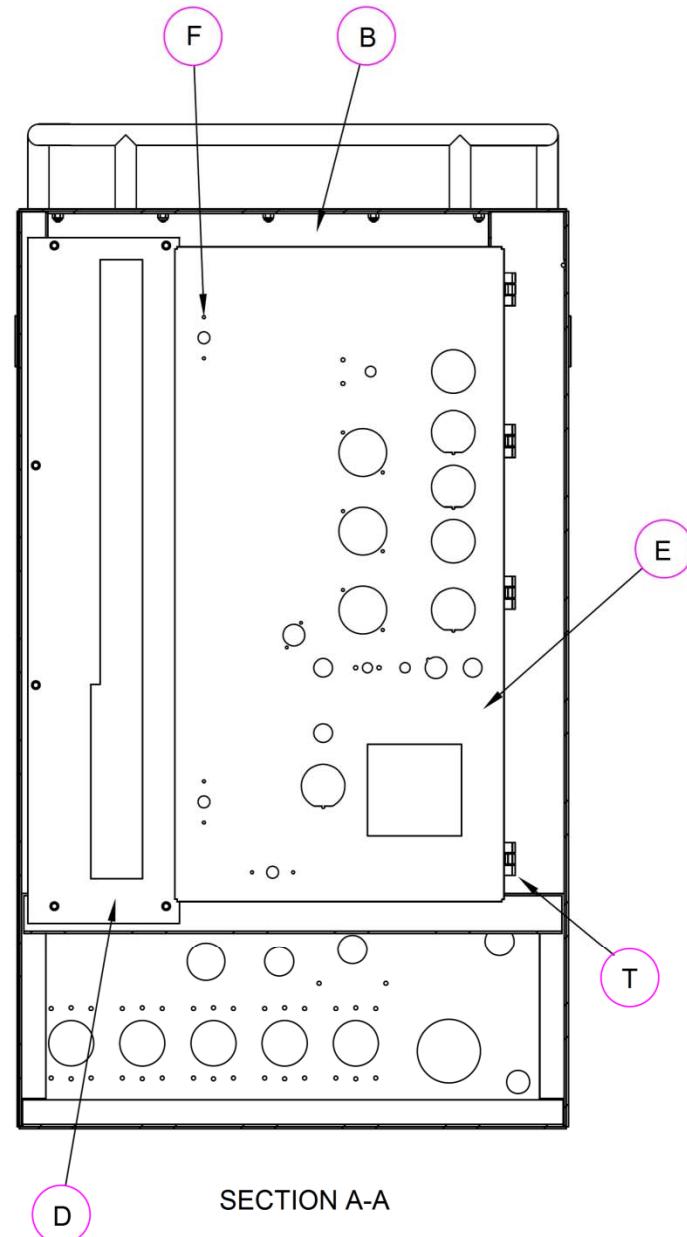


AS - REPLT PARTS, PWR PLUG & CONT COMPONENTS, WELD DECK SUPPLY – MK IV				037-63-105
ITEM	QTY	PART NO	DESCRIPTION	
E110	1	100179	HOLE COVER PLATE & HARDWARE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC8	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC9	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC9	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC10	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	

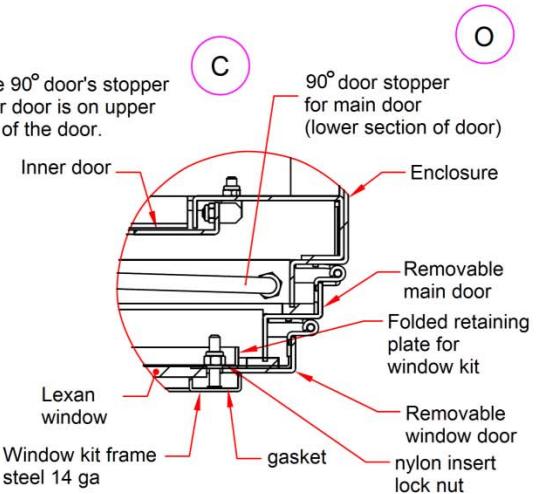
AS - REPLT PARTS, PWR PLUG & CONT COMPONENTS, WELD DECK SUPPLY – MK IV				037-63-105
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC11	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC12	1	100149	RECEPTACLES 480V 50A	
	2	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	4	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
	1	100150	WEATHERPROOF PLATE	
	4	MCC# 91735A197	HDW - SCREW 8-32 x 3/4 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	

NOTES:

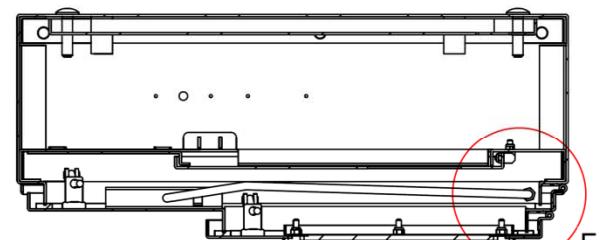




\* Note the 90° door's stopper for inner door is on upper section of the door.



DETAIL E



AS - REPLT PARTS, ENCLOSURE – MK IV				037-63-106
ITEM	QTY	PART NO	DESCRIPTION	
	1	100218	ENCLOSURE	
*A	1	037-63-112	OPT – RECEPTACLE PLATE	
B	1	100220	UPPER FRAME	
C	1	100221	UPPER DOOR LATCH INOX BAR	
D	1	100222	CIRCUIT BREAKER PLATE	
E	1	100223	INTERNAL DOOR	
F	3	100224	1/4 TURN SPRING LATCH	
G	2	100225	HANDLE	
H	2	100226	CAM	
I	1	100227	MAIN DOOR UPPER HANDLE ROD	
J	1	100228	MAIN DOOR LOWER HANDLE ROD	
K	1	100229	WINDOW DOOR UPPER HANDLE ROD	
L	1	100230	WINDOW DOOR LOWER HANDLE ROD	
M	4	100231	ROD GUIDE	
N	2	100232	ADAPTOR	
O	1	100233	LOWER DOOR LATCH INOX BAR	
P	1	100234	MAIN DOOR	
Q	1	100235	WINDOW DOOR	
R	1	100236	LEXAN WINDOW	
S	1	100237	WINDOW KIT	
T	3	100238	INTERNAL DOOR HINGES	
	2		STAINLESS STEEL RETAINING SCREW	
	7		WELDED 12 GA. SS - SLIP HINGED (7 PLACES)	

\* OPTIONS AVAILABLE

AS - REPLT PARTS, MISC COMPONENTS & HDWR – MK IV				037-63-107
ITEM	QTY	PART NO	DESCRIPTION	
1	2	100239	45DEG LIQUID TIGHT ADAPTER	
2	1	100240	CIRCUIT BREAKER SUPPORT ABB	
3	1	100241	CIRCUIT BREAKER SUPPORT CH	
4	1	100242	MAIN BREAKER SUPPORT	
5	1	100243	VALVE SUPPORT	
6	4	100244	STOPPER	
7	1	100245	RAIL SUPPORT	
8	1	100246	LAMP SUPPORT	
9	1	100247	TERMINAL HOLDER	
10	9	100248	DIN ADAPTER FOR BREAKER	
11	1	100249	CONNECTOR 1" 2548	
12	1	100250	LOCKNUT 1" 143	
13	1	100251	SEAL 1" 5264	
14	1	100252	ELBOW 45° 1" 2218	
15	1	100253	PLASTIC BUSHING 1" 224	
16	1	100254	CONNECTOR 1-1/4" 2559	
17	1	100255	LOCKNUT 1-1/4" 144	
18	1	100256	SEAL 1-1/4" 5265	
19	1	100257	ELBOW 45° 1-1/4" 2221	
20	1	100258	PLASTIC BUSHING 1-1/4" 225TB	
21	2	100259	CONNECTOR 2" 2577	
22	2	100260	LOCKNUT 2" 146-TB	
23	2	100261	SEAL 2" 5267	
24	1	100262	CABLE 3X4AWG	
25	1	100263	CABLE 3X6AWG	
26	1	100264	GROUND BAR	
27	19	100265	TERMINAL	
28	1	100266	TERMINAL COVER	
29	3	100267	TERMINAL	
30	2	100268	TERMINAL	

AS - REPLT PARTS, MISC COMPONENTS & HDWR – MK IV				037-63-107
31	5	100269	GROUND LUG	
32	1	100270	PLUG	
33	12	100271	SPACER	
34	4	100272	GROUND LUG	
35	3	100273	DOUBLE ROW TERMINAL BLOCK	
36	3	100274	CT BASE	
37	4	100275	COMPRESSION LUG 4/0AWG	

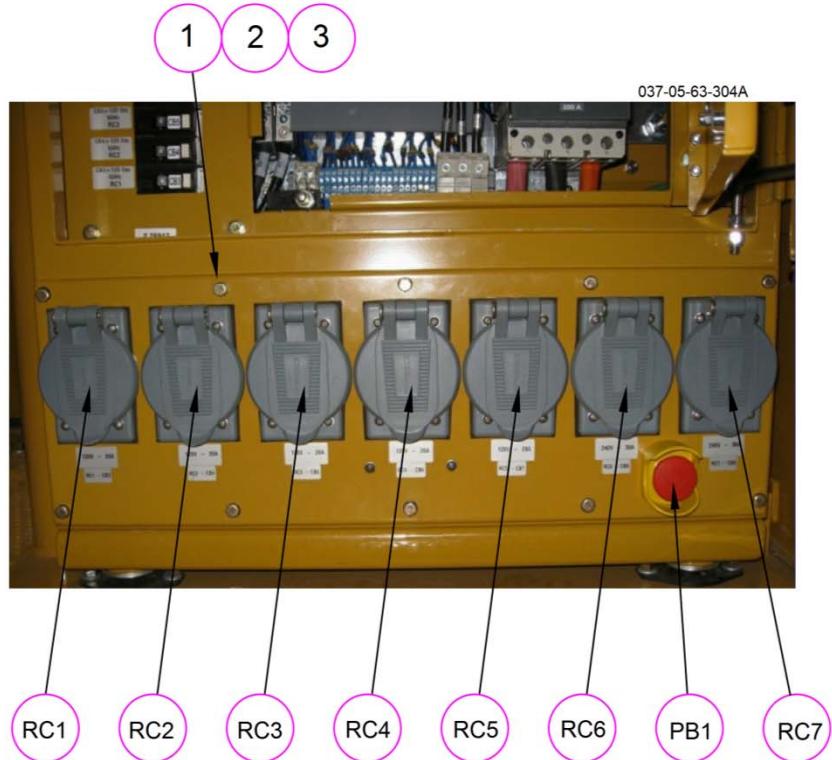
NOTES:

<b>OPT – RECEPTACLE PLATE</b>				037-63-112
ITEM	QTY	PART NO	DESCRIPTION	
1	*	037-63-113	GP – RECEPTACLE PLATE-USA/CDN	

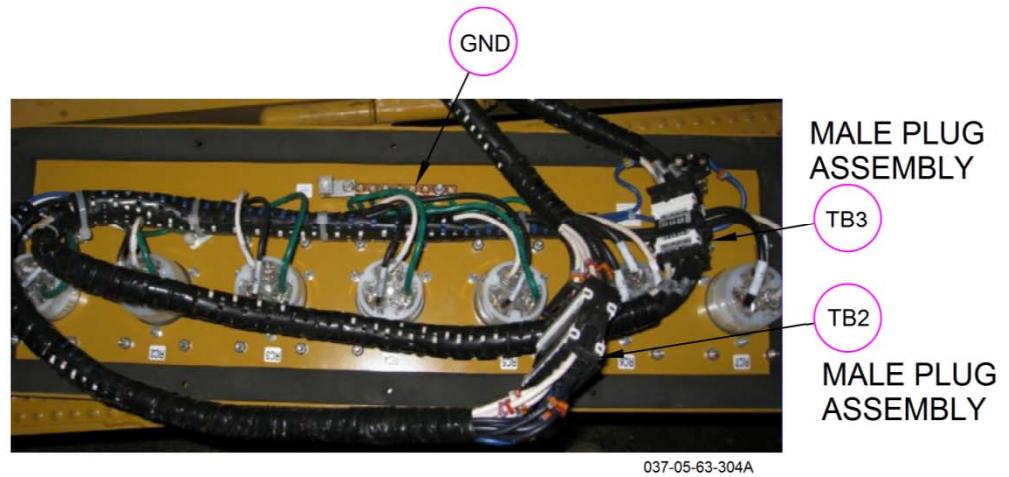
\* OPTIONS AVAILABLE

<b>GP - RECEPTACLE PLATE-USA/CDN</b>				037-63-113
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-63-113	CUSTOM NORTH AMERICAN VANGUARD PLATE	
2	*1	037-63-117	AS – REPLT PARTS MK 4NA RECEPTACLE PLATE	

\* PARTSBOOK ONLY, PART OF ITEM #1



SEE 037-63-112 FOR FRONT PANEL  
OPTION LISTING

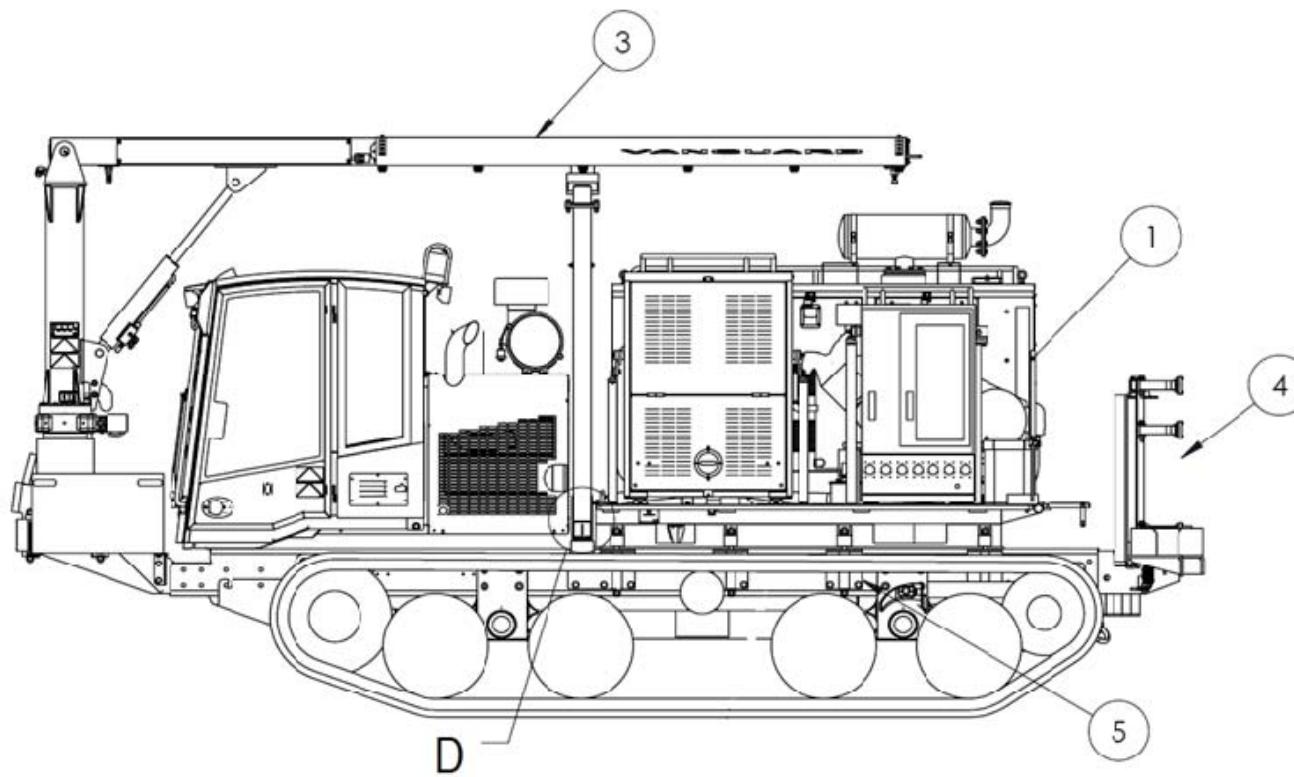


VIEW INSIDE  
FRONT PANEL

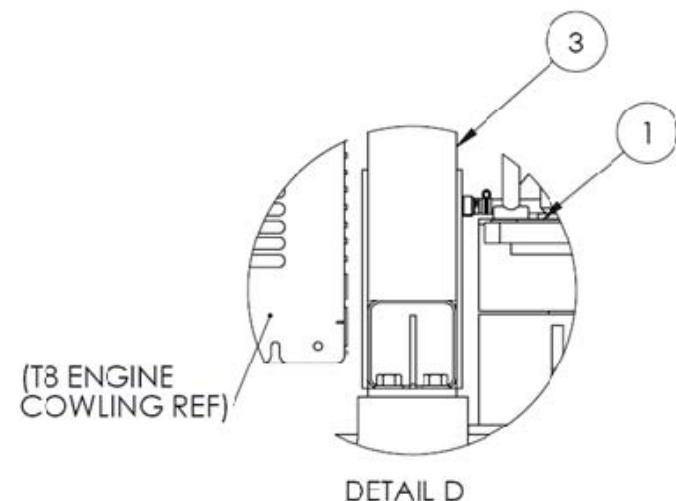
AS - REPLT PARTS, MK 4NA RECEPTACLE PLATE				037-63-117
ITEM	QTY	PART NO	DESCRIPTION	
RC5	1	100277	FLANGE RECEPTACLES 120V 20A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC6	1	100278	FLANGE RECEPTACLES 250V/30A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC7	1	100278	FLANGE RECEPTACLES 250V/30A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
TB2	1	100284	PLUG - 14 PIN M 60Hz/120VAC	
	1	100197	14 PINS SECURE KEY	
	12	100281	MALE PIN (10-12AWG) (QTY 12 USED WITH 14-PIN PLUG)	
TB3	1	100283	PLUG - 6 PIN M 60Hz/240VAC	
	1	100195	6 PINS SECURE KEY	
	2	100281	MALE PIN (10-12AWG)	
	4	100282	MALE PIN (8AWG)	

AS - REPLT PARTS, MK 4NA RECEPTACLE PLATE				037-63-117
ITEM	QTY	PART NO	DESCRIPTION	
1	10	CAT# 7X-2501	HDW-BOLT 1/4-20UNCx1-1/4 HEX	
2	10	CAT# 8T-4205	HDW-WASHER 1/4 HARD PLATED	
3	10	CAT# 4J-5477	O-RING ORFS -4	
GND	1	100264	GROUND BAR	
	1	100269	GROUND LUG	
	2	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	2	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
PB1	1	100280	MUSHROOM PUSH BUTTON - RED	
	1	100176	BODY - PUSH BUTTON	
	1	100317	GUARD - PUSH BUTTON	
RC1	1	100277	FLANGE RECEPTACLES 120V 20A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC2	1	100277	FLANGE RECEPTACLES 120V 20A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC3	1	100277	FLANGE RECEPTACLES 120V 20A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	

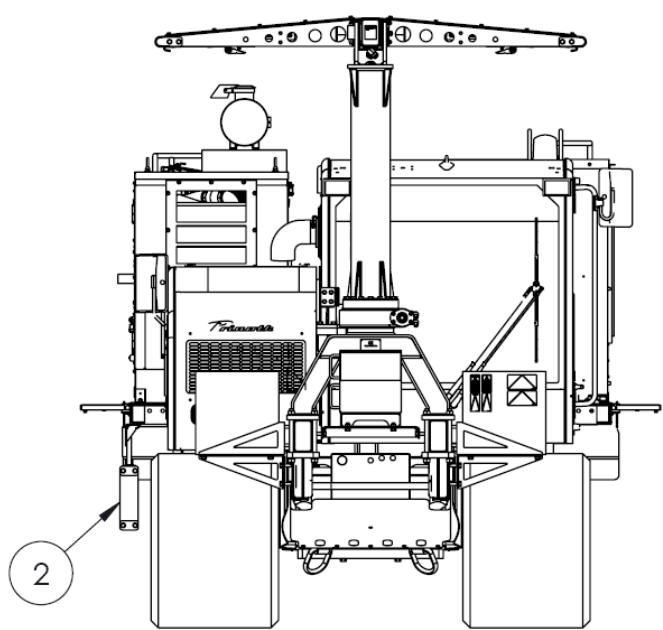
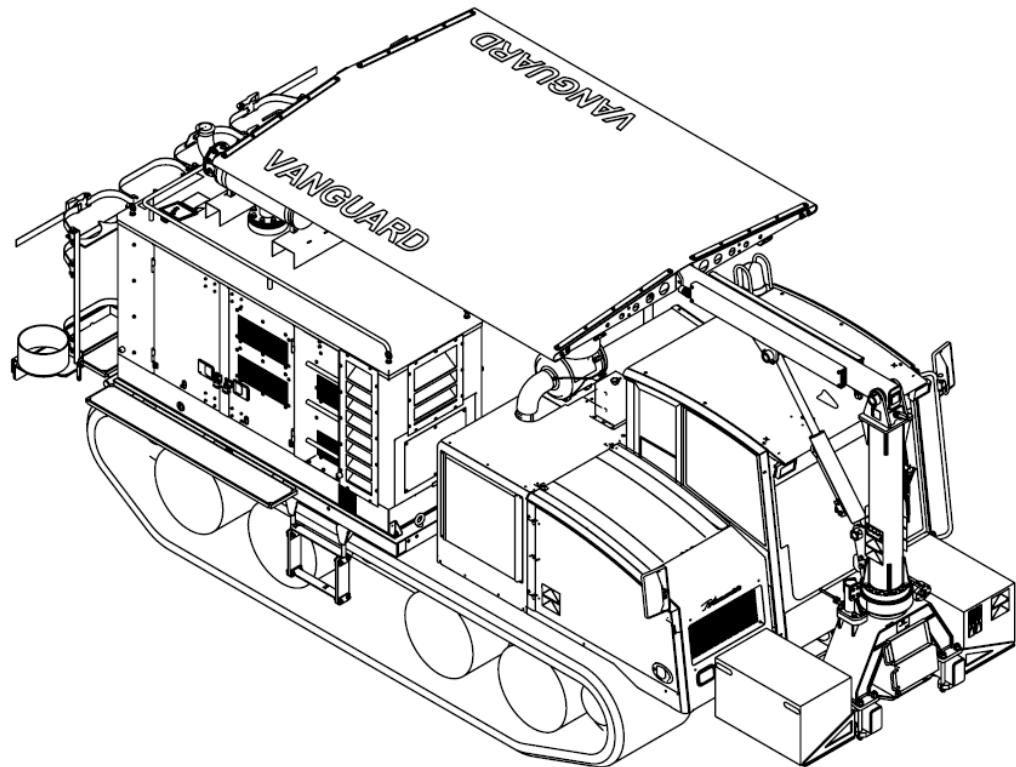
AS - REPLT PARTS, MK 4NA RECEPTACLE PLATE				037-63-117
ITEM	QTY	PART NO	DESCRIPTION	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	
RC4	1	100277	FLANGE RECEPTACLES 120V 20A	
	3	MCC# 91792A115	HDW - SCREW 4-40 x 1 SS PAN HD SLOTTED	
	3	MCC# 91831A005	HDW - LOCKNUT 4-40 SS NYLON	
	6	MCC# 92141A005	HDW - WASHER FLAT #4 SS	
	1	100279	WEATHERPROOF LIFT COVER PLATE	
	4	MCC# 91735A199	HDW - SCREW 8-32 x 1 SS PAN HD PHILLIPS	
	4	MCC# 91831A009	HDW - LOCKNUT 8-32 SS NYLON	
	8	MCC# 92141A009	HDW - WASHER FLAT #8 SS	



LEFT HAND SIDE



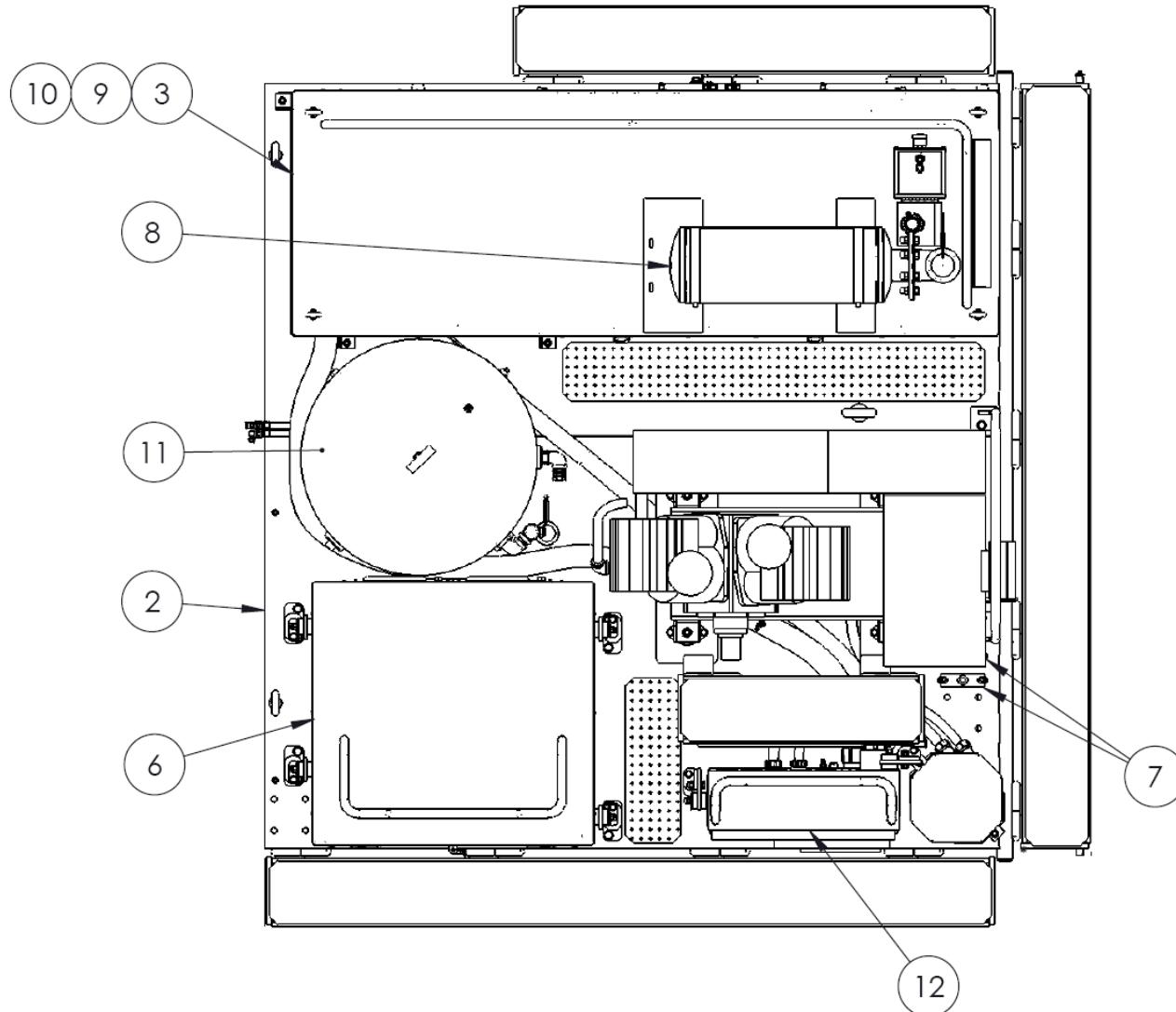
DETAIL D

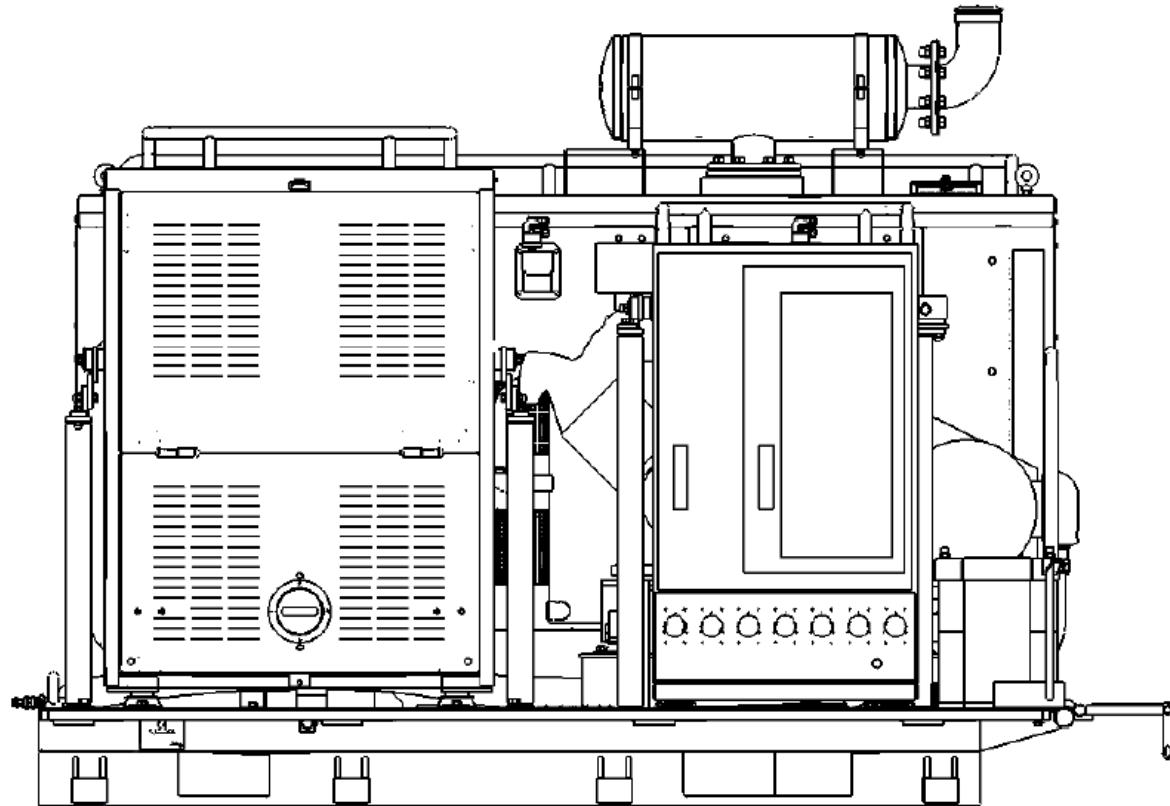


FRONT VIEW

AR - CPW 125-4-S2/T8 - WELDDECK				037-05-051
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-05-052	GP - CPW 125-4-S2 FLAT-DECK MTG	
2	1	037-14-110	GP - LADDER FLEXIBLE (2-STEP) - TYPE II	
3	1	037-20-204	AR - T8 SLEW CANOPY & STOW ARM	
4	1	037-35-087	OPT - MTG RACK REAR EXTENSION	
5	1	037-71-102	GP - T8 VEHICLE MTG BRKT	

NOT SHOWN (4) (5) (13)

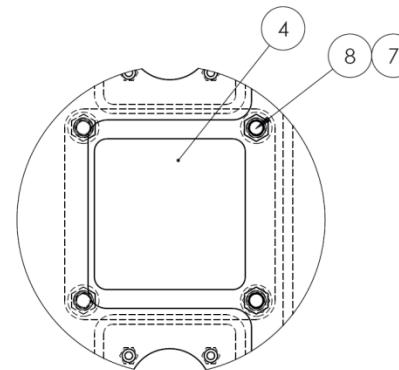
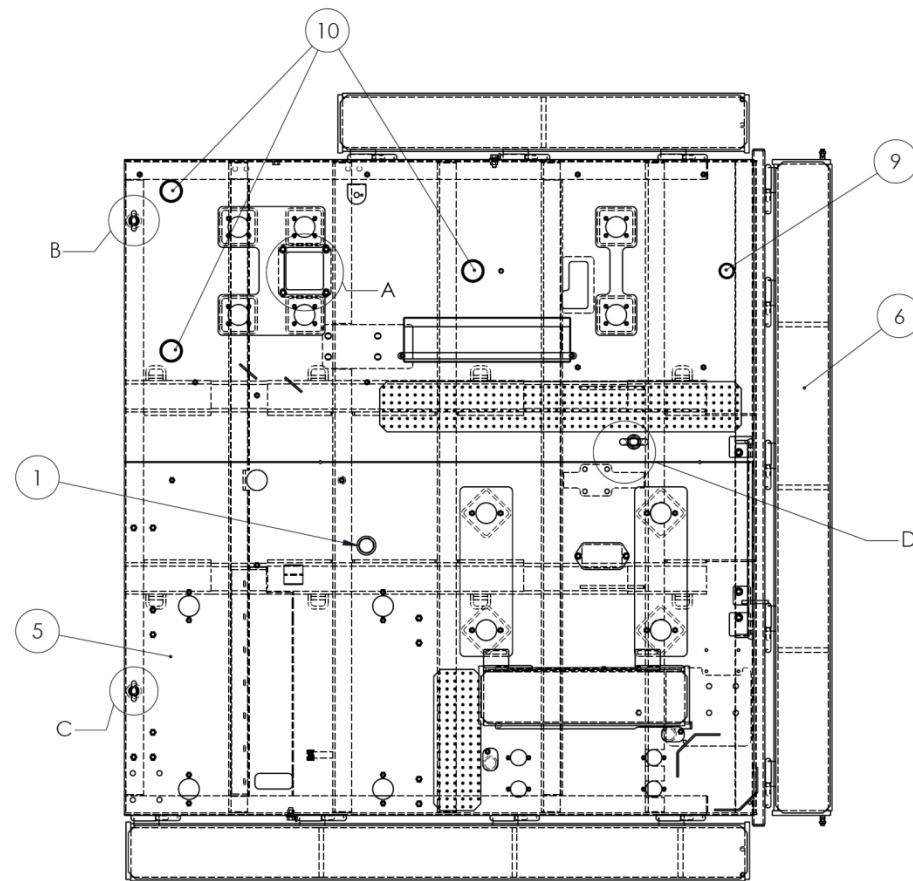




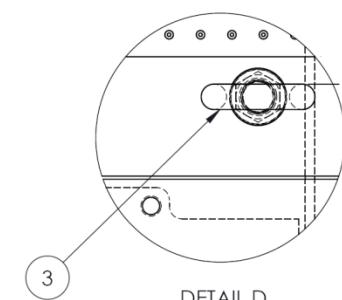
LEFT SIDE

GP - CPW 125-4-S2 FLAT-DECK MTG				037-05-052
ITEM	QTY	PART NO	DESCRIPTION	
2	*1	037-10-128	GP - REAR DECK - FLAT-MTG (T8)	
3	1	037-11-250	AR - GENSET ENCLOSURE - S2 ENG	
4	1	037-20-001	AS - WHOSEN POLE	
5	*4	037-35-001	OPT - WELDER POWER UNIT	
6	*1	037-35-051	OPT - FRAME - WELDING MOUNT	
7	2	037-35-122	GP- WELDING GROUND STANDOFF	
8	1	037-50-110	GP - SILENCER INDUSTRIAL - S2 ENG	
9	1	037-50-163	GP - T8 G-DR ENG W/ETHER START	
10	1	037-50-122	GP - GENSET ROLL CONTROL - S2 ENG	
11	*1	037-55-042	OPT - COMPR AIR MODULE 50/60HZ	
12	1	037-63-090	GP - CONTROL/DISTRIBUTION CENTER WELD-DECK S2	
13	1	037-71-114	GP - FLAT-DECK VEH MTG CONN	

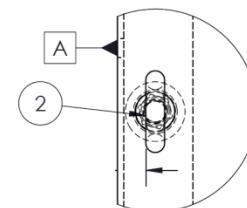
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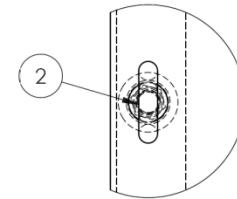
DETAIL A



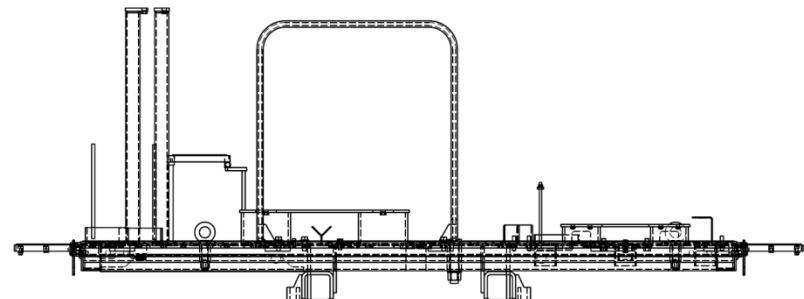
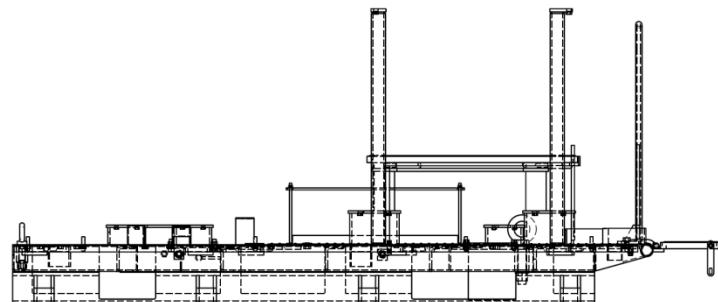
DETAIL D



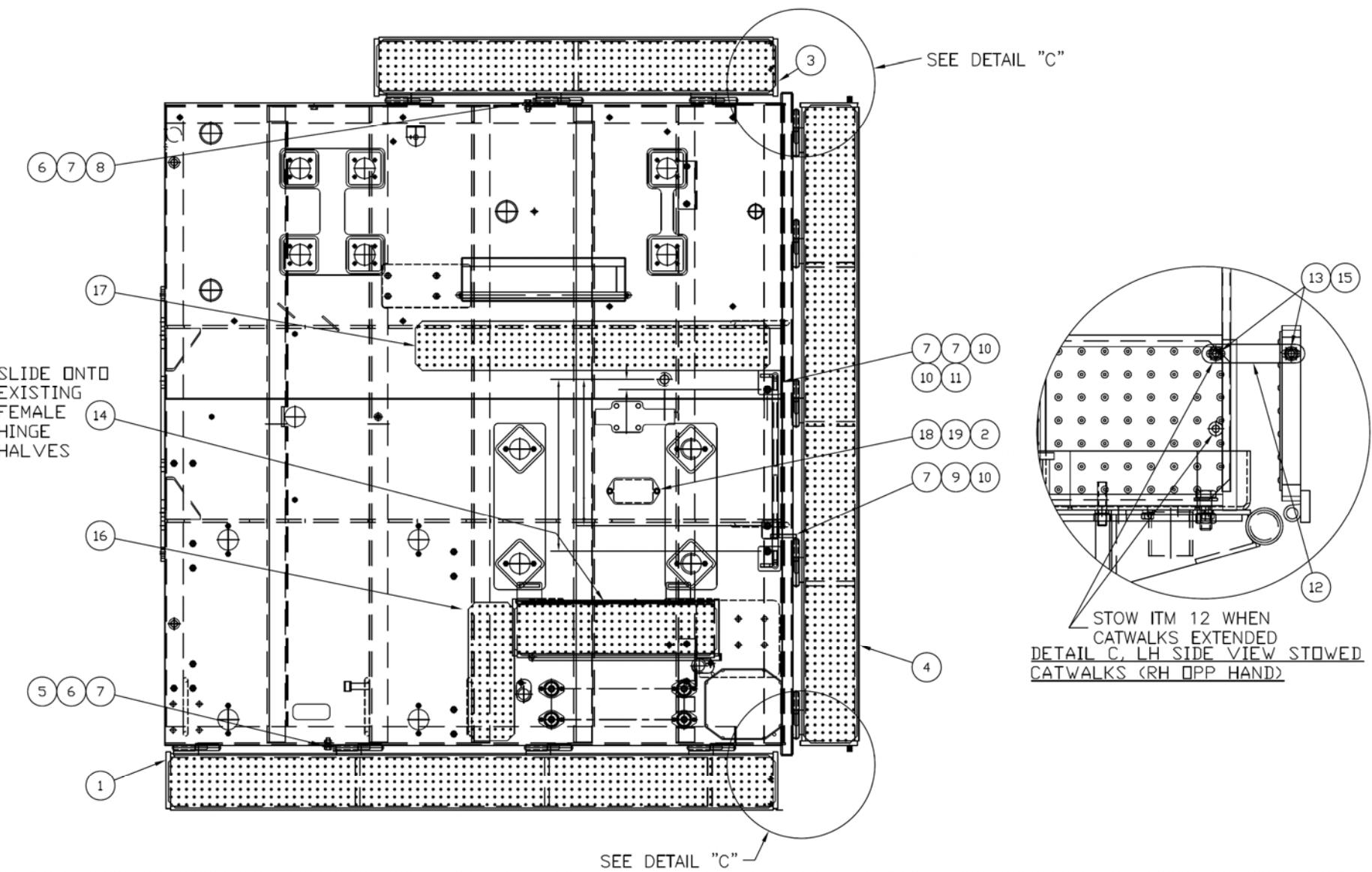
DETAIL B



DETAIL C



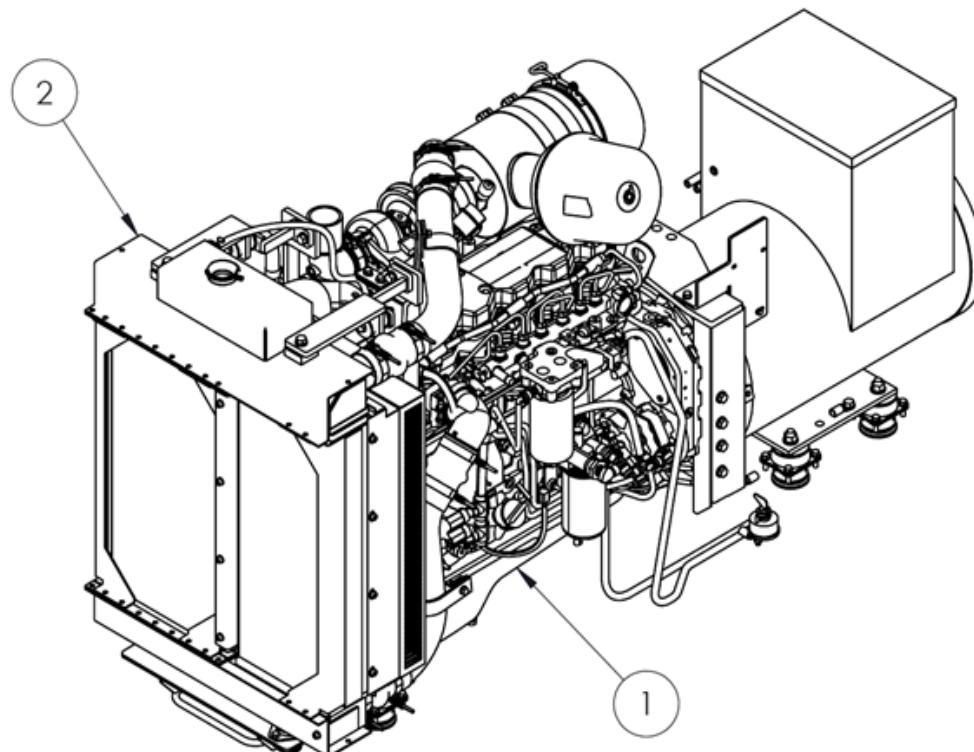
GP – REAR DECK – FLAT-MTG (T8)				037-10-128
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-04-012	HDWM - GROMMET 3"OD x 2.25"ID	
2	2	037-10-072	AS - 7/8UNCx4-1/8 LIFTING EYE 10600 LB VERTICAL LIFT, 3180 LB 45°-INLINE LIFT	
3	1	037-10-073	AS - 1-1/4UNCx6-1/4 LIFTING EYE 21000 LB VERTICAL LIFT, 6300 LB 45°-INLINE LIFT	
4	1	037-10-127	PLT - DECK CLEANOUT COVER	
5	1	037-10-129	AS - REAR DECK - FLAT-MTG (T8)	
6	1	037-14-103	AS - REAR DECK ACCESS WAYS	
7	4	CAT# 8T-4122	HDW - WASHER 5/8	
8	4	CAT# 8T-9393	BOLT - 5/8-11 X 1.5 UNC HEX	
9	1	MMC# 2495K12	HDWM - DECK DRAIN, 2"	
10	3	MMC# 2495K13	HDWM - DECK DRAIN, 3"	



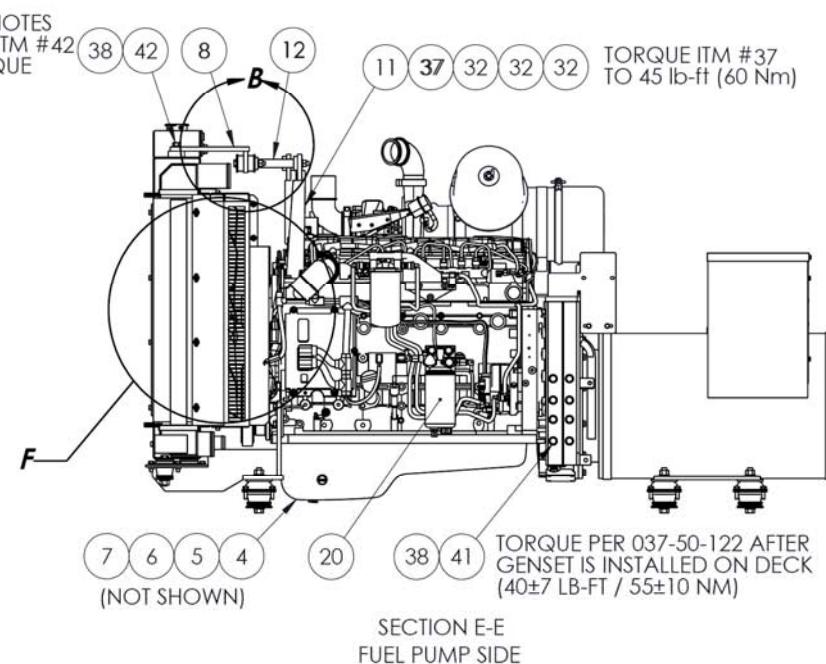
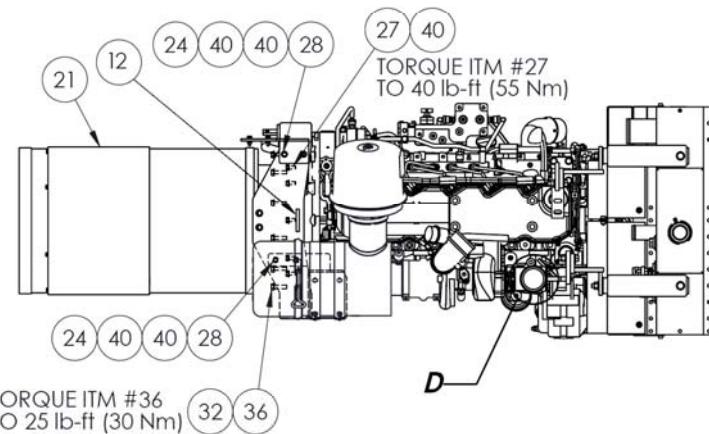
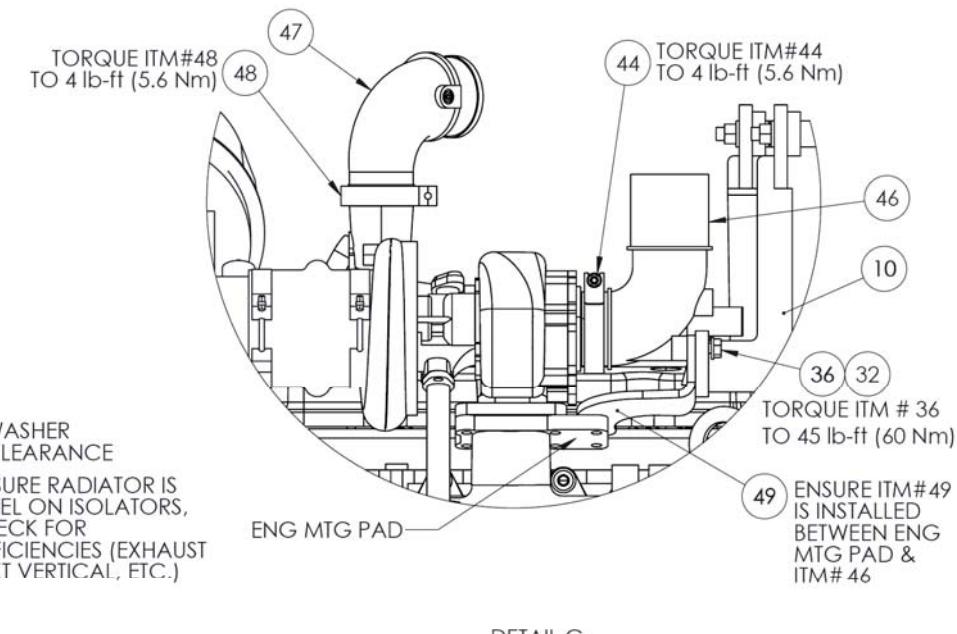
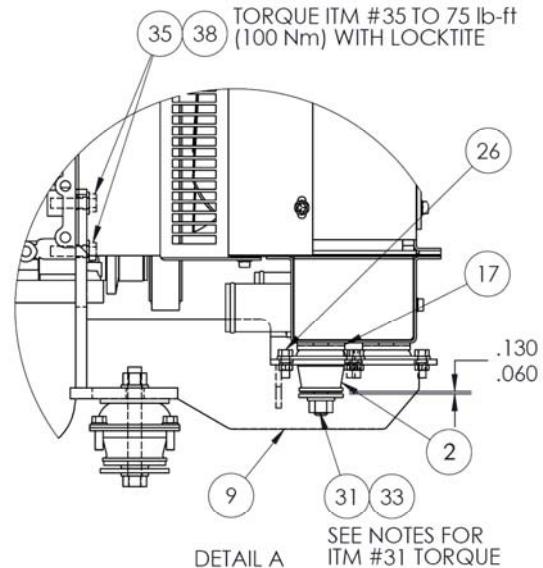
AS – ACCESS WAYS FLAT-MTG DECK (PLAN VIEW)				037-14-103
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-14-006	AS – DOGHOUSE CATWALK	
2	2	CAT# 8T-4223	WASHER, FLAT HARD 1/2	
3	1	037-14-104	AS – GENSET FLAT-MTG CATWALK	
4	1	037-14-037	AS – DECK REAR CATWALK	
5	1	037-14-020	AS – CATWALK RETAINER LH	
6	2	CAT# 8T-9393	BOLT – 5/8-11 UNCx1.5LNG HX HD PLATED	
7	5	CAT# 8T-4122	5/8 WASHER HARD PLATED	
8	1	037-14-025	AS – CATWALK RETAINER RH	
9	1	037-14-049	AS – REAR ACCESS WAY KEEPER	
10	3	CAT# 7X-0345	BOLT – 5/8-11UNCx1-3/4LNG HX HD PLATED	
11	1	037-14-052	AS – HANDRAIL REAR	
12	2	037-14-069	PLT – CATWALK LATCH	
13	4	CAT# 5M-3062	BOLT – 3/8-16UNCx3/4LNG HX HD PLATED	
14	1	037-14-026	AS – ELEC BOX INNER CATWALK	
15	4	CAT# 8T-4896	WASHER – 3/8 HARD PLATED	
16	1	037-14-041	PLT – DOGOUSE DECK TREAD	
17	1	037-14-056	PLT – GENSET INNER CATWALK TREAD	
18	1	037-10-100	PLT – COVER	
19	2	CAT# 8T-8917	HEX HD BOLT, ½-13 NC X 1 ¼ IN	

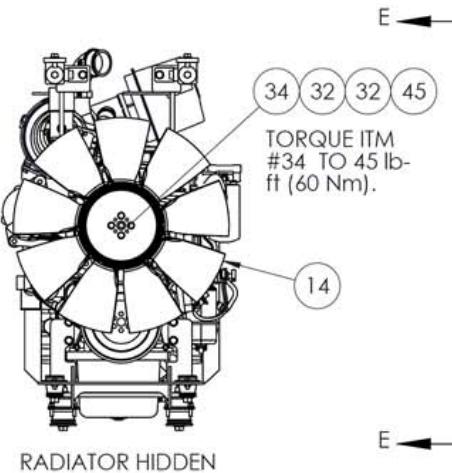
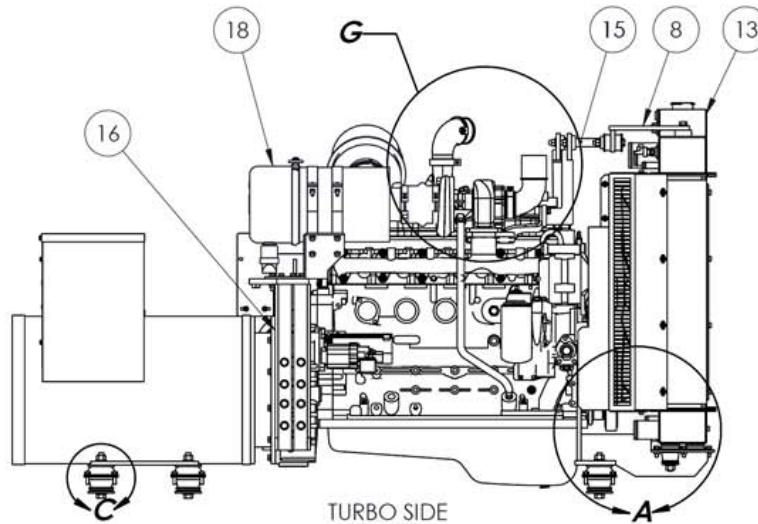
GP – T8 G-DR ENG W/ETHER START

037-50-163

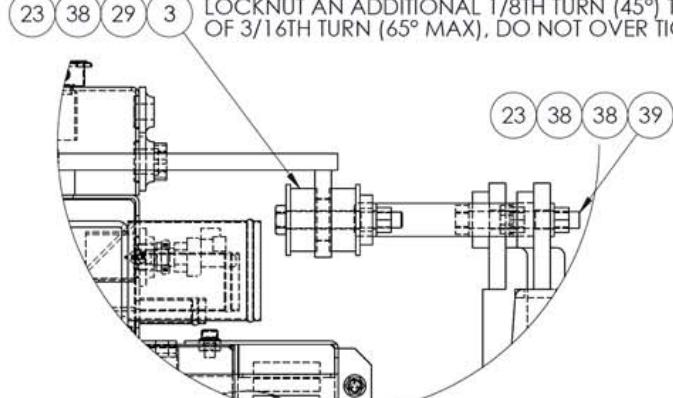


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-50-082	AS - G-DR ENG W/ETHER START (0.87:1 FAN DR)
2	1	037-50-164	AS- T8 GENSET DETAILS - S2 ENG

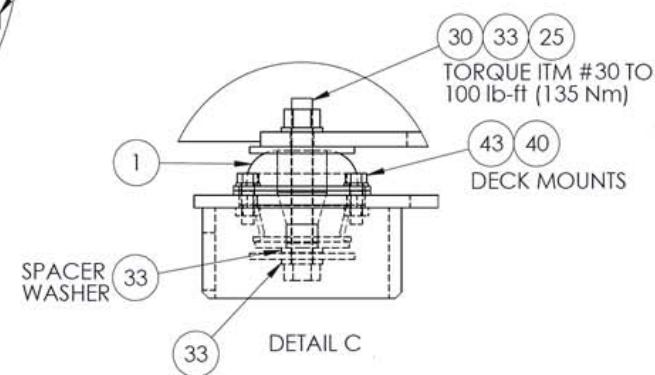




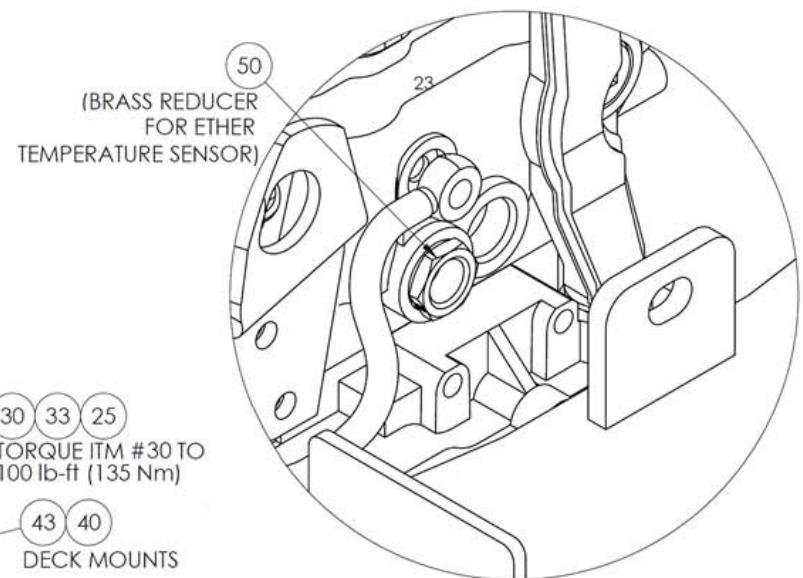
SEE NOTES FOR INSTALLATION DETAILS.  
INSTALL ITEM 23 (LOCKNUT) AND TIGHTEN TO SNUG-FIT  
OVERLOAD WASHERS ONTO ISOLATOR'S INNER TUBE  
SLEEVE (ENSURE ZERO-CLEARANCE). TIGHTEN  
LOCKNUT AN ADDITIONAL 1/8TH TURN (45°) TO A MAX  
OF 3/16TH TURN (65° MAX), DO NOT OVER TIGHTEN.



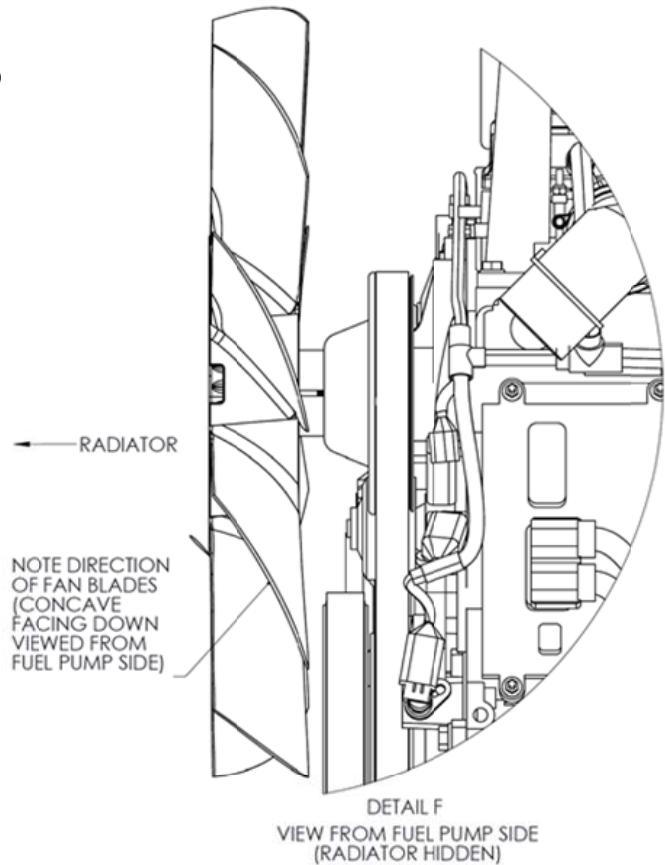
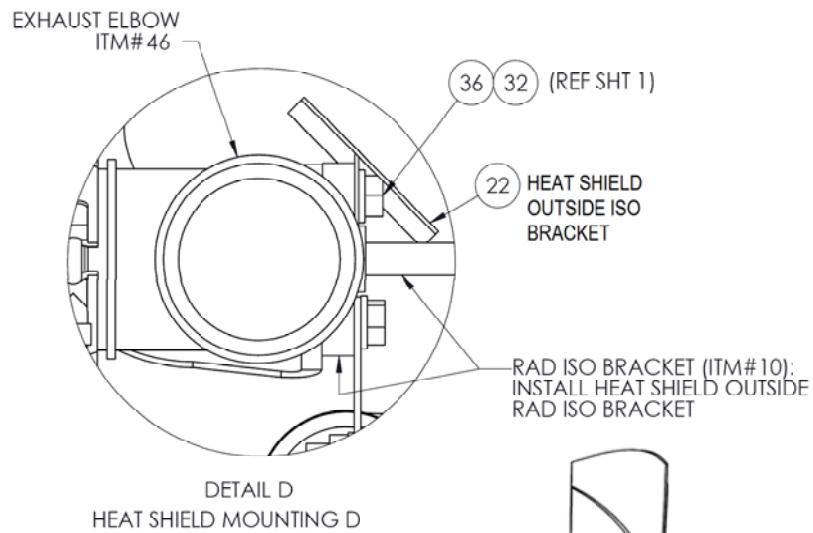
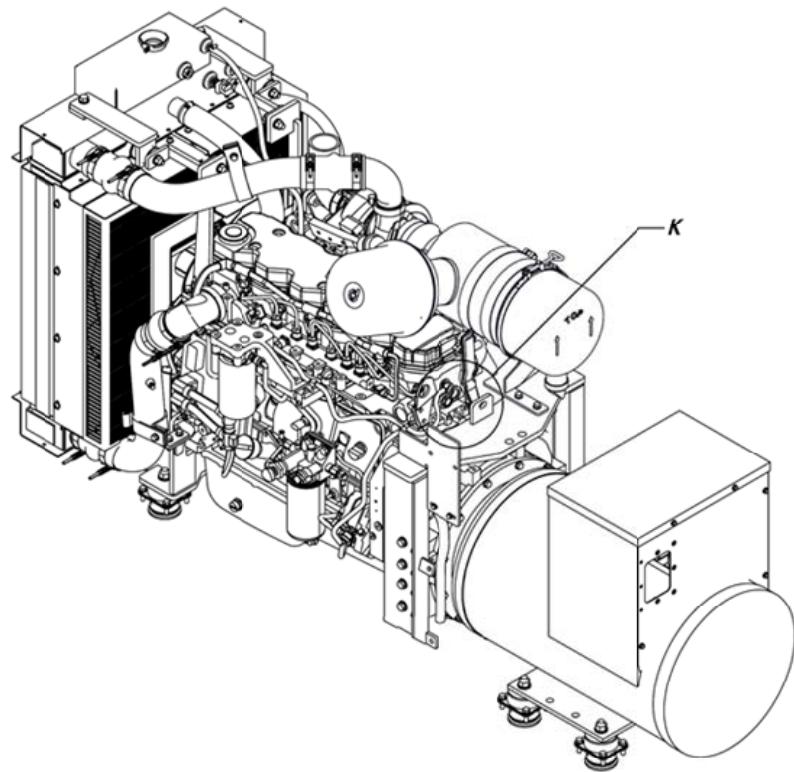
DETAIL B



DETAIL C



DETAIL K  
REDUCER SHOWN IN REAR  
ENGINE BLOCK PORT



NOTE: ENGINE AND ISOLATOR BOLT-TORQUES AS PER ITM BALLOON NOTES. USE THREAD LOCK ON ALL BOLTS.  
TIGHTEN BOLTS & NUTS SNUG AGAINST WASHERS BEFORE TORQUING

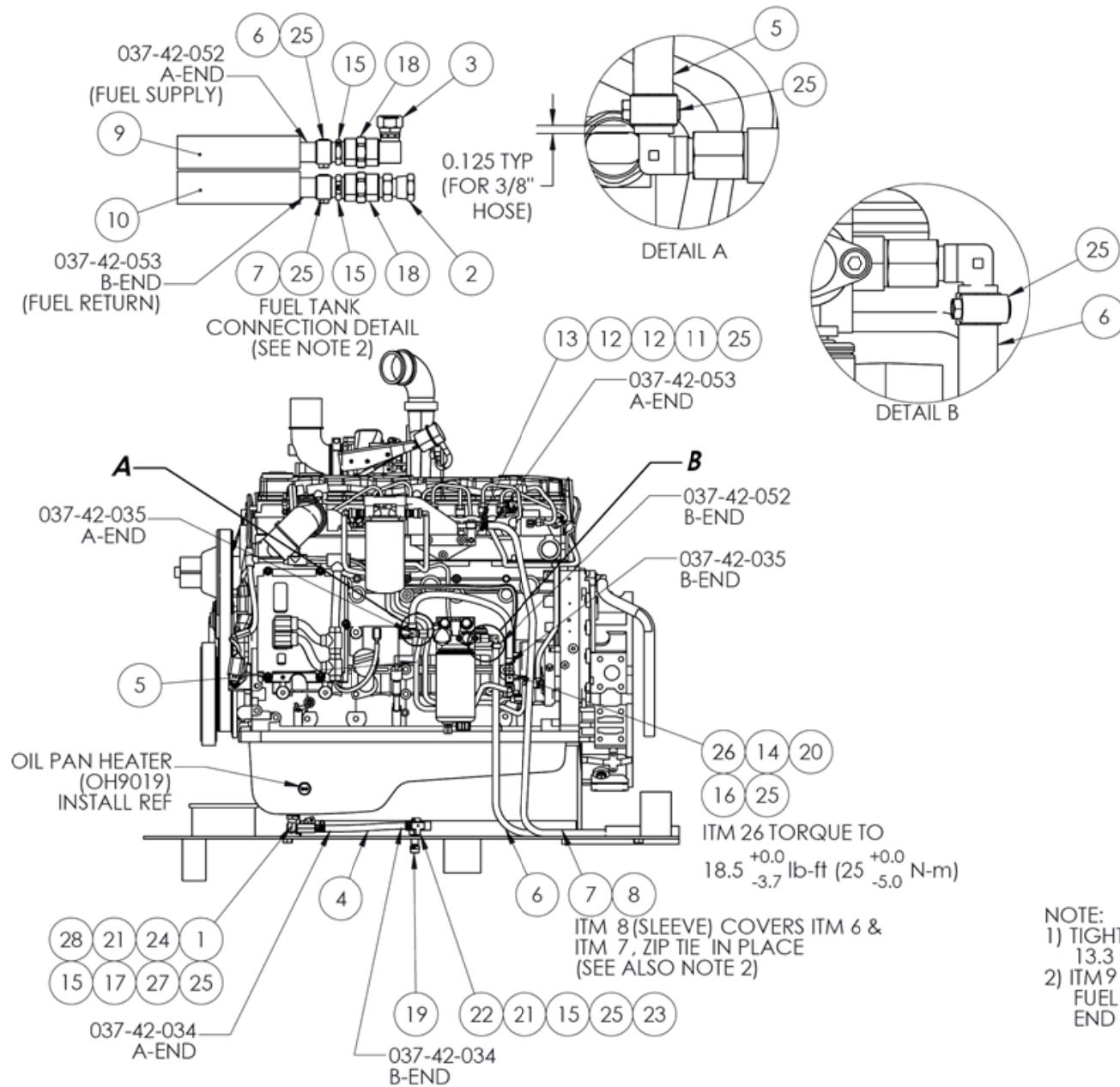
STABILIZER ISOLATORS--ITM 3 --MUST NOT SUPPORT ANY LOAD IN RESTING POSITION. FOLLOW PROCEDURES LISTED BELOW. FAILURE TO FOLLOW THESE PROCEDURES COULD RESULT IN PREMATURE FAILURE OF THE RADIATOR CORE.

- 1) INSTALL RADIATOR ONTO SUPPORT ISOLATORS (ITM 2 ), TORQUE ITM # 31 TO 36.9 lb-ft (50 Nm).
- 2) CENTER AND ALIGN FAN-SHROUD AND GUARD ON FAN, ENSURE ADEQUATE CLEARANCE TO FAN FRONT TO BACK AND ALL-WAY-ROUND.
- 3) INSTALL ITM 10 & 11 (ENGINE BRACKETS) ONTO ENGINE; TORQUE BOLTS ITM 36 & ITM 37 AS PER BALLOON NOTES.
- 4) TEMPORARILY INSTALL ITM 8 (RAD STAY) LOOSELY ONTO RADIATOR.
- 5) INSTALL ITM 3 (ISOLATOR) ONTO # 8 , # 12 & # 15 (ENGINE STAY), TORQUE ITM AS NOTED. DO NOT TIGHTEN STAY ONTO RAD OR ENGINE BRKTS.
- 6) CONNECT ALL RAD-HOSES AND FILL RADIATOR TO CAPACITY ( 7.5 USGAL / 28.4 l).
- 7) COMPLETELY ALIGN ITM 8 (RAD STAY) WITH RADIATOR AND ITM 12 & 15 WITH # 10 & 11 (ENGINE BRACKETS) SO THAT ITM 3 (ISOLATOR) IS NOT DEFORMED IN ANY WAY; THREAD LOCK AND TORQUE 1/2-IN BOLTS TO 75 lb-ft (105 Nm), ENSURING THAT RADIATOR STUDS DO NOT DEFORM, AND THAT RADIATOR IS LEVEL ON ISOLATORS.
- 8) TORQUE ALL OTHER BOLTS AS PER CAT TORQUES, UNLESS OTHERWISE SPECIFIED.
- 9) RECHECK FAN CLEARANCE BETWEEN SHROUD AND GUARD.

AS- T8 GENSET DETAILS - S2 ENG				037-50-164
ITEM	QTY	PART NO	DESCRIPTION	
1	6	037-05-020	AS - VIBRATION ISOLATOR - PLT MOUNT SQ	
2	2	037-05-021	AS - VIBRATION ISOLATOR - PLT MOUNT DIAMOND	
3	2	037-05-022	AS - VIBRATION ISOLATOR - 2-PIECE CENTER BONDED	
4	1	037-09-011	GP - DECALS - S2	
5	1	037-40-032	GP - WIRING, GENSET, 60/50 Hz 480/415 VAC - S2 ENG	
6	1	037-40-033	GP - WIRING GENSET CONT/24VDC CHARGE - S2 ENG	
7	1	037-42-051	GP-GENSET ENG HOSE - S2 ENG T8	
8	2	037-50-031	AS - RAD ISO STAY	
9	1	037-50-090	AS - ENGINE/RADIATOR BRKT - S2 ENG	
10	1	037-50-092	AS - RAD ISO STABILIZER EXHAUST BRKT - S2 ENG	
11	1	037-50-094	AS - RAD ISO STABILIZER FUEL PUMP BRKT - S2 ENG	
12	1	037-50-097	AS - RAD ISO STAY ENG BRKT - S2 ENG	
13	1	037-50-108	GP - RADIATOR/CAC	
14	1	037-50-111	HDWM - FAN ENG COOLING - S2 ENG	
15	1	037-50-116	AS - RAD ISO STAY ENG BRKT - S2 ENG	
16	1	037-50-118	AS - BELLHOUSE ROLL CONTROL BRKT - S2 ENG	
17	2	037-50-132	PLT - RAD ISOLATOR SPACER - S2 ENG	
18	1	037-50-134	GP - AIR CLEANER - S2 ENG	
19	1	037-50-143	GP - ETHER START	
20	1	037-50-146	AS - REMOTE FUEL FILTER	
21	1	037-50-158	GP - ALTERNATOR (MODIFIED)	
22	1	037-71-100	MOD - CLIPPED HEAT SHIELD	
23	4	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
24	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
25	6	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
26	4	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"	
27	8	CAT# 5S-7379	HDW - BOLT 3/8-16UNCx7/8 HEX	

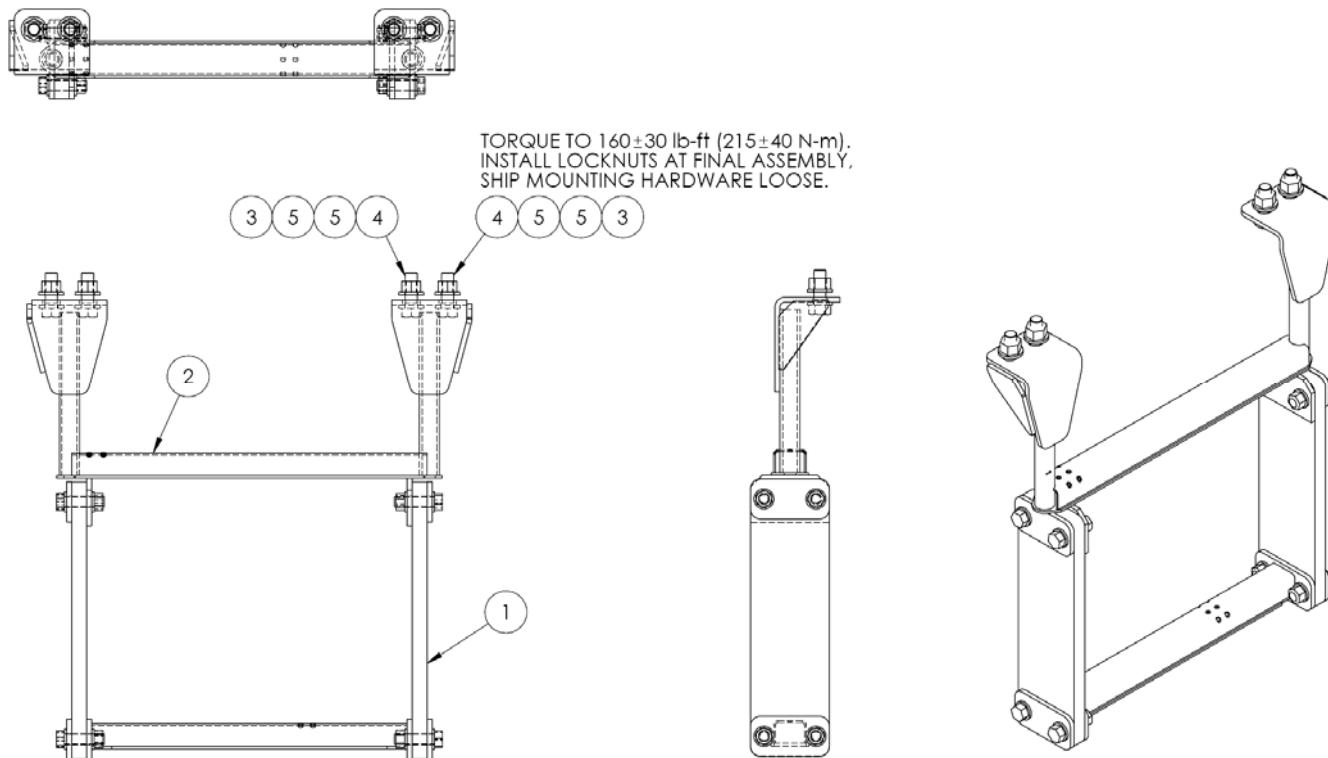
AS- T8 GENSET DETAILS - S2 ENG				037-50-164
ITEM	QTY	PART NO	DESCRIPTION	
28	4	CAT# 5S-7383	BOLT - 3/8 -16 UNC X 1.75 LG HEX	
29	2	CAT# 7X-0328	HDW - BOLT - 1/2-13 UNC x 3 1/2" HEX	
30	6	CAT# 7X-0356	HDW - BOLT - 5/8-11 X 5 HEX	
31	2	CAT# 7X-0448	HDW - NUT 5/8-11 ZINC PLATED HARDENED	
32	25	CAT# 8T-4121	HDW - WASHER M10	
33	20	CAT# 8T-4122	HDW - WASHER 5/8	
34	4	CAT# 8T-4172	HDW - BOLT M10X1.5X80	
35	4	CAT# 8T-4184	HDW - BOLT M12X1.75X45	
36	14	CAT# 8T-4186	HEX HD BOLT M10 X 1.5 X 40 LNG PLATED	
37	3	CAT# 8T-4195	HDW - BOLT M10X1.5X30	
38	28	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
39	2	CAT# 8T-4835	HDW - BOLT - 1/2-13 UNC X 2.0 HEX	
40	40	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
41	16	CAT# 8T-4956	HDW - BOLT M12X1.75X35	
42	2	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
43	24	CAT# 9B-7237	HDW - BOLT-3/8-16UNCx1.25 HEX	
44	*	100289	(QTY 1) HDWM - V-BAND CLAMP	
45	*	100290	(QTY 1) HDWM - FAN SPACER	
46	*	100319	(QTY 1) HDWM - EXHAUST ELBOW	
47	*	100327	(QTY 1) HDWM - TURBO EXIT ELBOW	
48	*	100328	(QTY 1) HDWM - V-BAND CLAMP	
49	*	100329	(QTY 1) HDWM - TURBO HOUSING MOUNTING BRACKET	
50	50	PARK# 209P-12-8	FF - BRASS REDUCER NPT 3/4 - 1/2	

\* SHOWN FOR PARTS ONLY (C/W ENGINE)

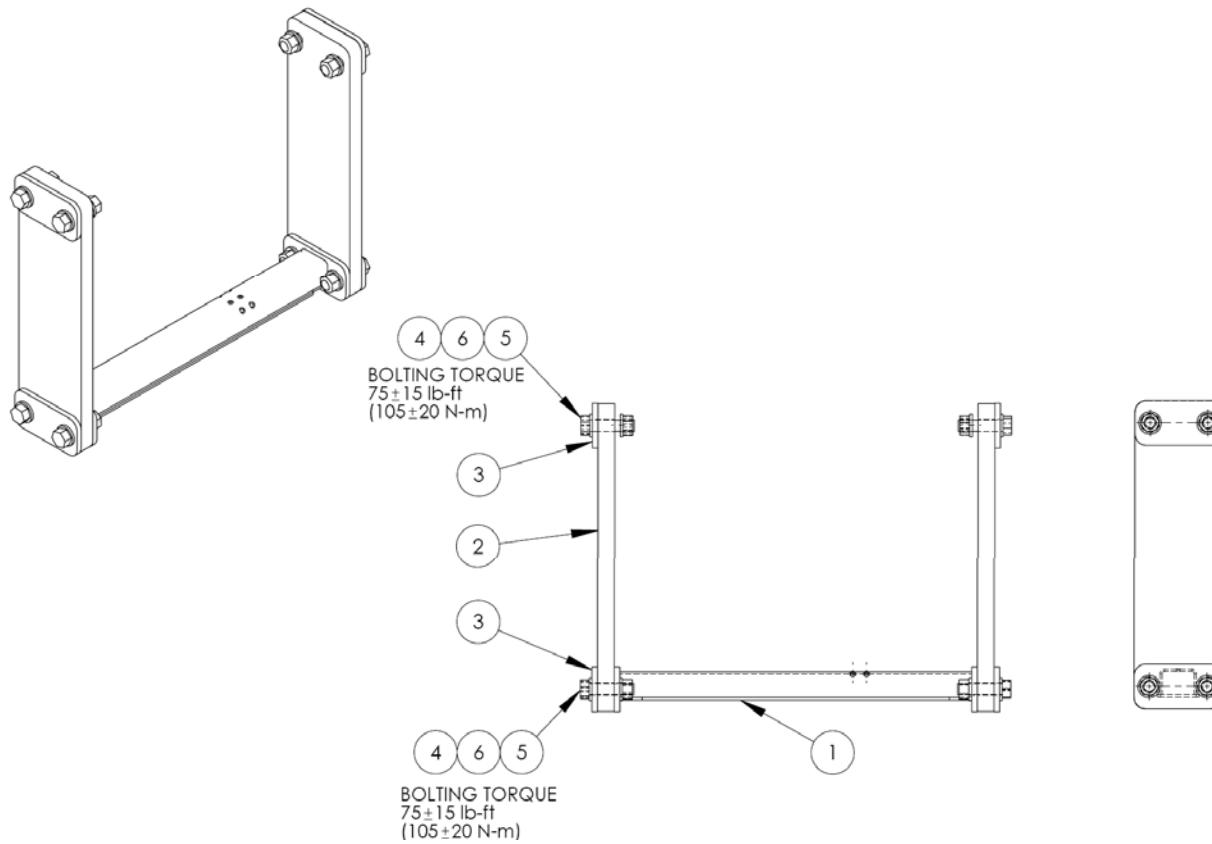


GP – T8 GENSET ENG HOSE - S2 ENG				037-42-051
ITEM	QTY	PART NO	DESCRIPTION	
1	1	006-43-002	FF - 90 EL M METRIC PARALLEL THREAD M22 / M JIC -8	
2	1	006-43-011	FF - JIC FSW FM/NPT M -6/-6 BRASS	
3	1	006-43-028	FF-90 EL JIC FSW FM/NPTM -6/-6 BRASS	
4	1	037-42-034	FH - HOSE DRAIN FOR ENGINE OIL - (Ø3/8"x10"LNG)	
5	1	037-42-035	FH - HOSE FUEL FILTER OUT (Ø3/8"x24"LNG)	
6	1	037-42-052	FH - FUEL SPLY (Ø3/8x110"LNG)	
7	1	037-42-053	FH - FUEL RETURN (Ø3/8x122"LNG)	
8	1	037-42-054	HDWM - NYL SLEEVE-82IN (1.06ID)	
9	1	037-42-055	HDWM - NYL SLEEVE-8IN (0.86ID)	
10	1	037-42-056	HDWM - NYL SLEEVE-12IN (0.86ID)	
11	*	100331	(QTY 1) FF - BANJO CONNECTOR SCREW M12	
12	*	100332	(QTY 2) FF - BANJO SEALING WASHER	
13	*	100318	(QTY 1) FF - BANJO CONNECTOR - 3/8" HOSE BARB	
14	1	100500	FF - BONDED SEAL, METRIC, 12MM	
15	4	PARK# 68HB-6-6	FF - BRASS 3/8" HOSE BEAD - 3/8" NPT MALE	
16	1	PARK# 179HB-6-4	FF - 45 DEG BRASS 3/8" BEADED HOSE BARB - 1/4" NPTM	
17	1	PARK# 2-114-N0552	FF - SEAL METRIC M18	
18	2	PARK# 207P-6	FF - NPT FEMALE UNION -6	
19	1	PARK# 213P-6	FF - BRASS HEX CAP FM NPT 3/8"	
20	1	PARK# 2202P-4-4	FF - BRASS 90 DEG STREET ELBOW 1/4" NPT	
21	2	PARK# 2202P-6-6	FF - BRASS 90 DEG STREET ELBOW 3/8" NPT	
22	1	PARK# 2203P-6	FF - BRASS TEE FM 3/8" NPT	
23	1	PARK# 3-8-HHP-S	FF - HOLLOW HEX PIPE PLUG 3/8 NPT	
24	1	PARK# 8 F6X-S	FF - ADAPTOR - SW JIC 37 FM/NPT M -8/-6	
25	8	PARK# 97HC-6	FF - CLAMP HOSE 3/8"	
26	1	PARK# M12-1/4F8HG-S	FF-ISO9974 M12x1.5-1/4-18 NPTF	
27	1	PARK# M18RR	FF - METRIC RETAINING RING M18	
28	1	PARK# MV609-6	FF - BALL VALVE NPT FM 3/8"	

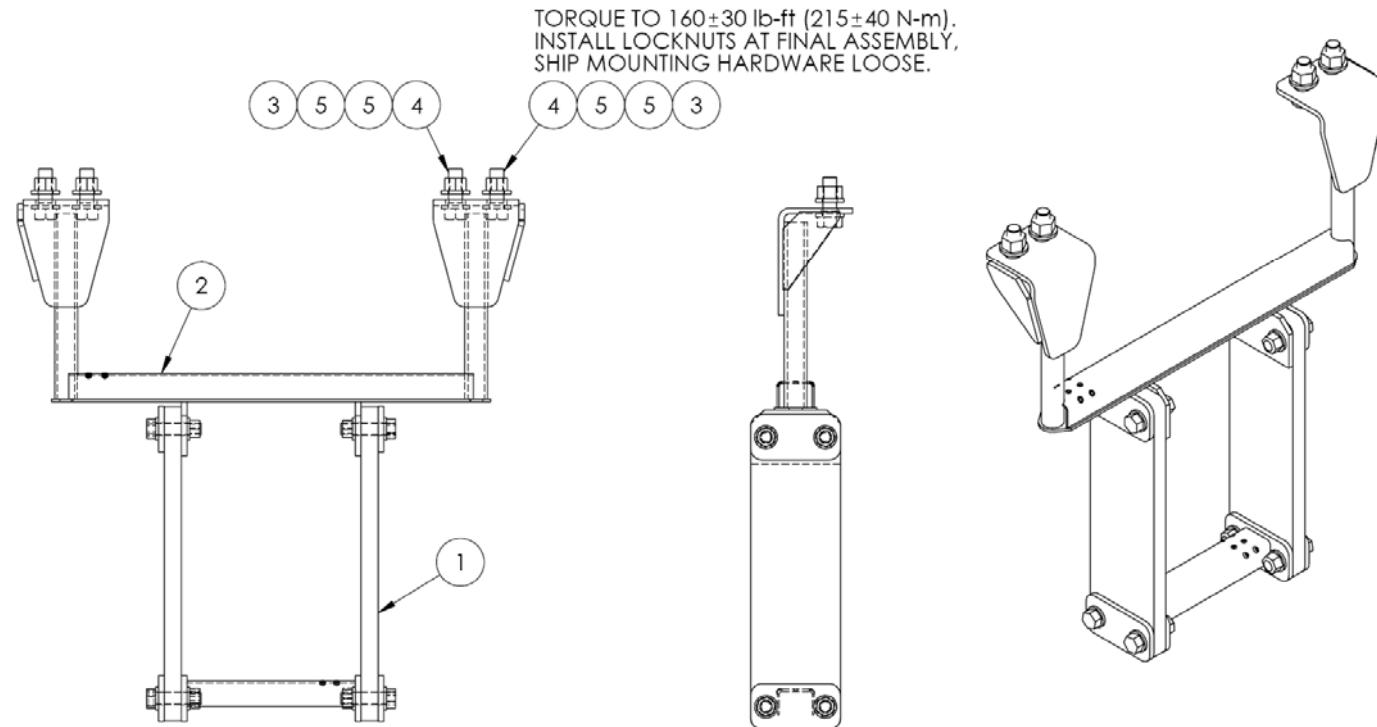
\* SHOWN FOR PARTS ONLY (C/W ENGINE)



ITEM	QTY	PART NO	DESCRIPTION
1	1	043-14-033	AS -FLEX LADDER RUNG (WIDE)
2	1	037-14-111	AS - LADDER BASE (2-STEP) – TYPE II
3	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD
4	4	CAT# 7X-0345	HDW – BOLT – 5/8-11 X 1.75 UNC HEX
5	8	CAT# 8T-4122	HDW - WASHER 5/8

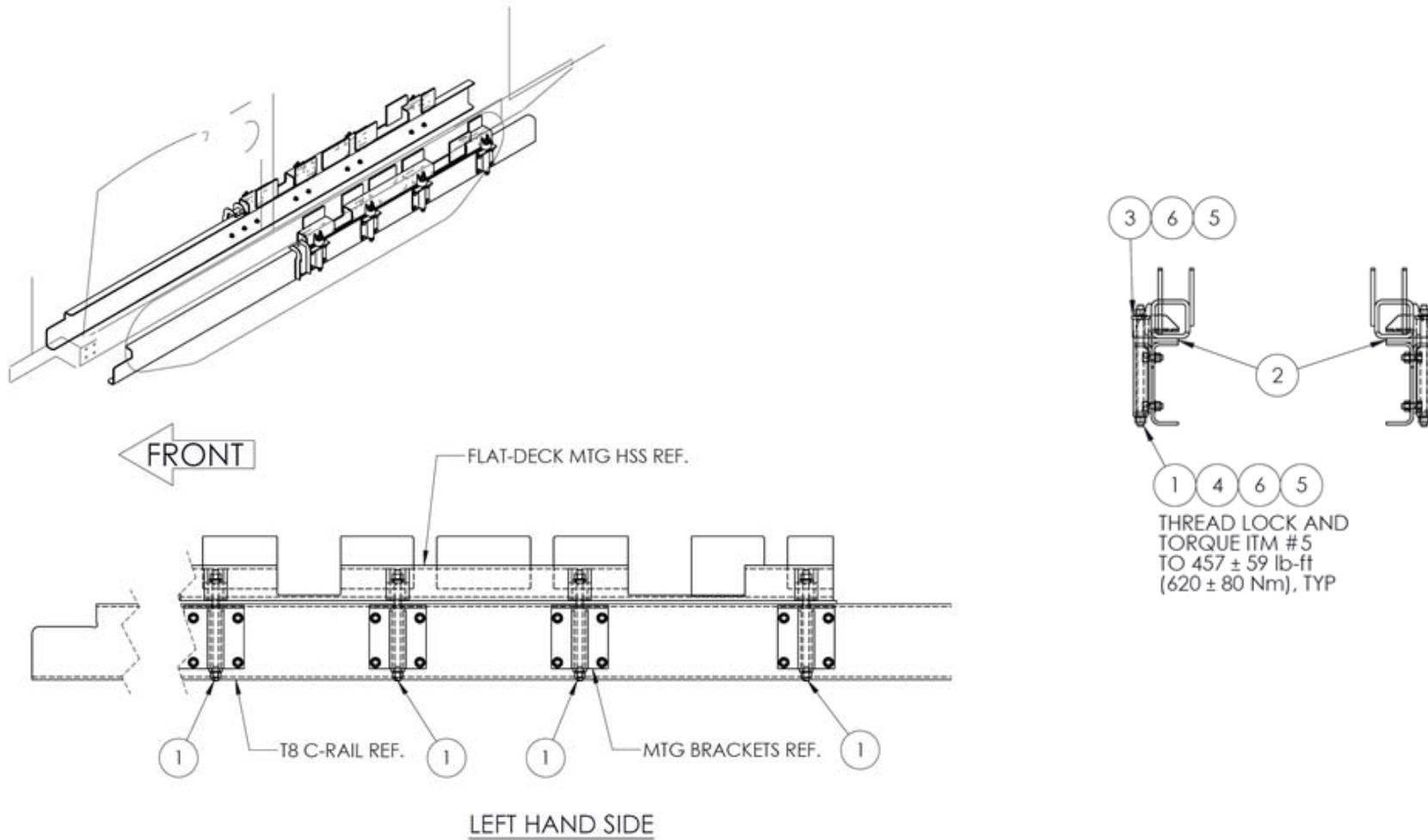


ITEM	QTY	PART NO	DESCRIPTION
1	1	043-14-034	AS - FLEX STEP RUNG (WIDE)
2	2	040-14-025	BELT
3	4	040-14-032	PLATE
4	8	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC
5	8	CAT# 8T-4835	HDW - BOLT - 1/2-13 UNC X 2.0 HEX
6	16	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED



ITEM	QTY	PART NO	DESCRIPTION
1	1	035-14-024	AS – RUBBER MOUNT LADDER RUNG
2	1	037-14-107	AS – LADDER BASE (2-STEP) – TYPE 1
3	4	CAT# 3K-2889	HDW – LOCKNUT – 5/8-11 THD
4	4	CAT# 7X-0345	HDW – BOLT – 5/8-11 X 1.75 UNC HEX
5	8	CAT# 8T-4122	HDW – WASHER 5/8

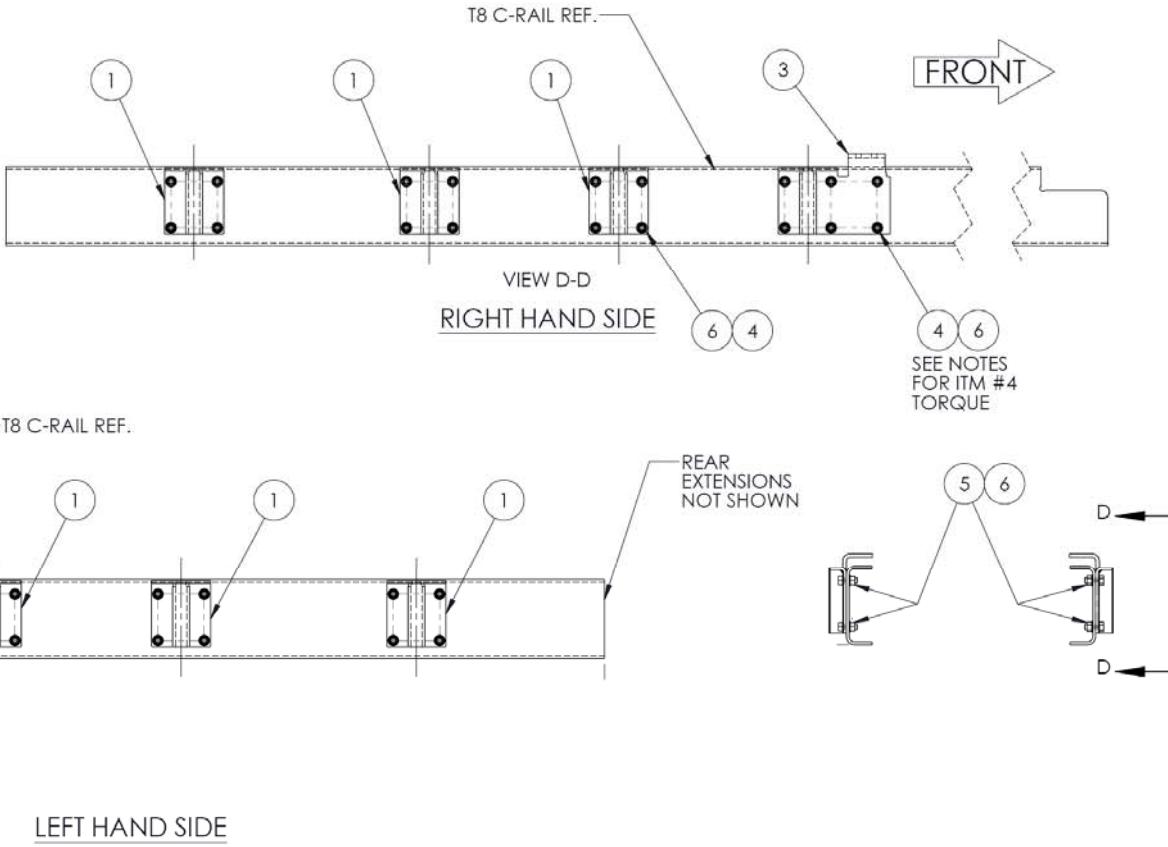
NOTES:



ITEM	QTY	PART NO	DESCRIPTION
1	8	006-12-004	HDW-THD ROD 7/8-9UNCx15.75 PLTD
2	2	037-71-115	HDWM - FLAT-DECK VEH MTG STRIP
3	8	037-71-116	PLT - KEYED SPACER FLAT MTG
4	8	037-71-117	PLT - SPACER CIRC (1.88ODx1IDx0.38)
5	16	CAT# 7X-0449	HDW - NUT 7/8"-9
6	16	CAT# 8C-6913	HDW - WASHER 7/8"

NOTE:  
TO ENSURE THE DECK IS MOUNTED PROPERLY  
USE THE FOLLOWING TIGHTENING PROCEDURE:

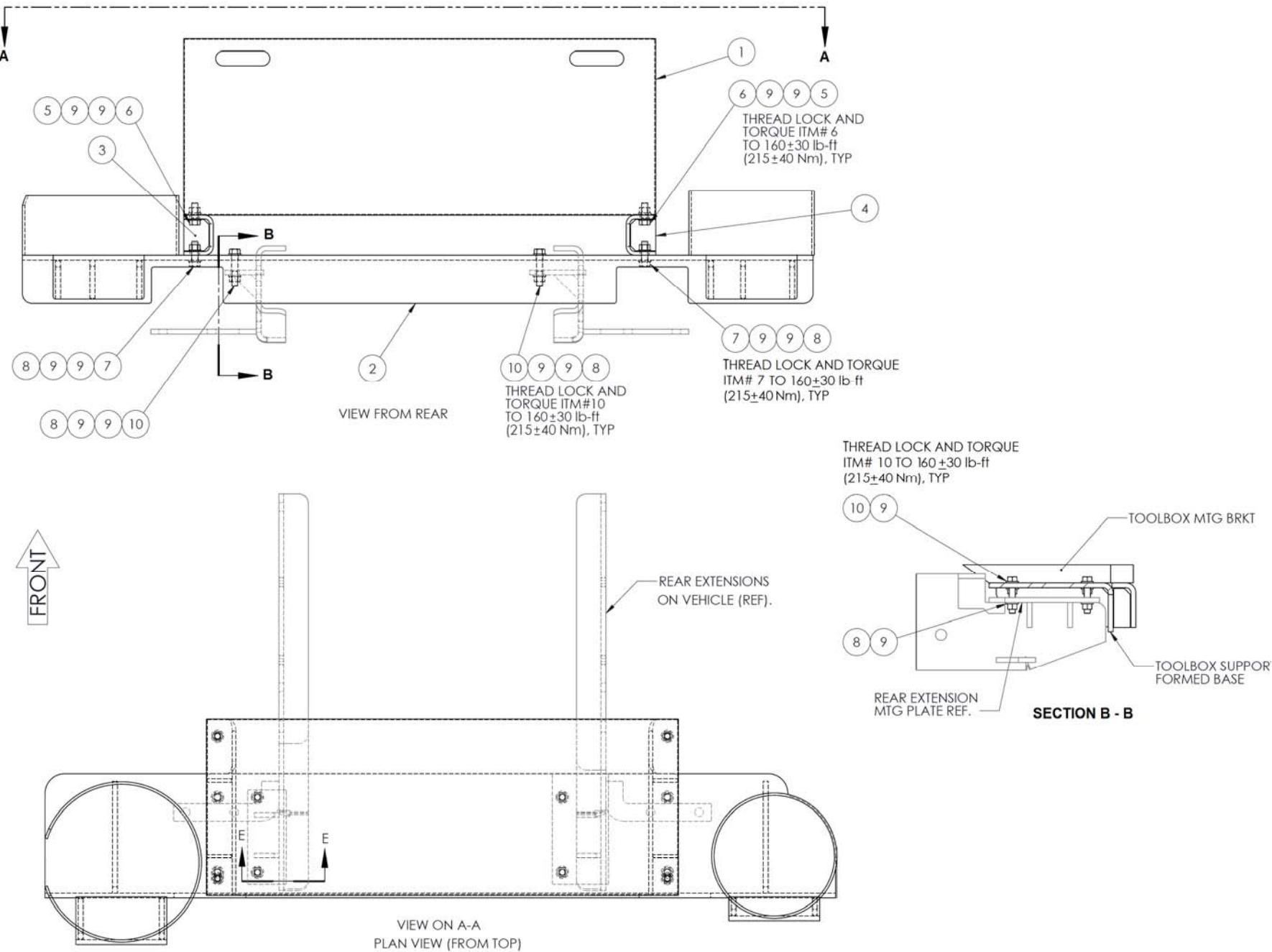
- 1) TEMPORARILY INSTALL THE BRACKETS AS SHOWN WITH TWO BOLTS EACH ONLY (DIAGONALLY). DO NOT TORQUE THE BOLTS.
- 2) LOWER THE DECK ONTO THE VEHICLE AND POSITION AS PER 037-05-051
- 3) IF A SLEWING CANOPY IS BEING USED, MOUNT THE SLEWING CANOPY STOWING ARM AND POSITION AS PER 037-05-051
- 4) WITH THE COMPONENTS IN POSITION THREADLOCK AND TORQUE ITEM #4 TO  $273 \pm 37$  lb-ft (370 ± 50 Nm), TYP



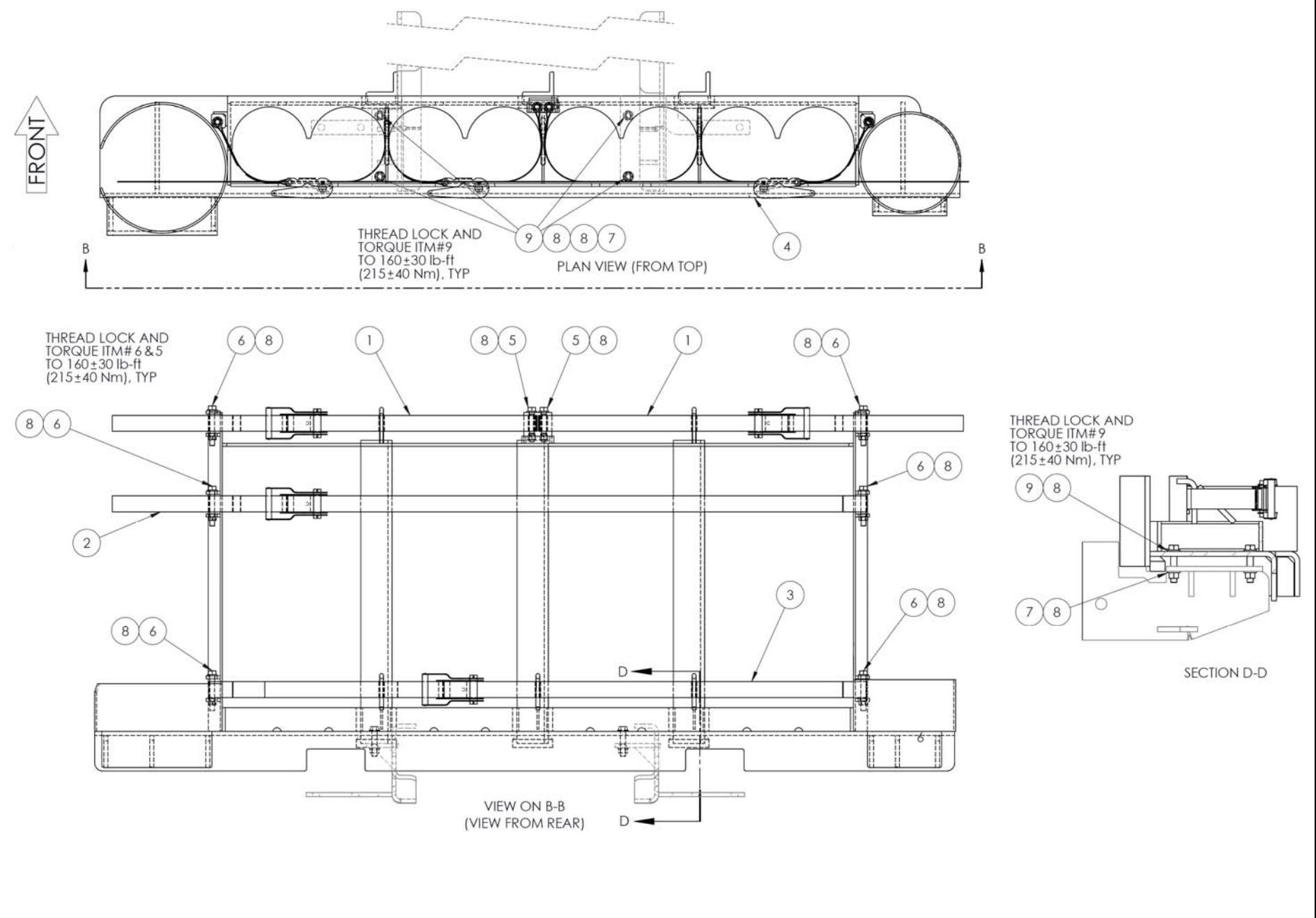
ITEM	QTY	PART NO	DESCRIPTION
1	6	037-71-103	AS - FLAT-DECK MTG BRKT
2	1	037-71-106	AS - LH SLEW-STOW ARM MTG BRKT
3	1	037-71-110	AS - RH SLEW-STOW ARM MTG BRKT
4	36	CAT# 7X-0366	HDW - BOLT - 3/4-10 UNC X 2.0 HEX
5	36	CAT# 6V-8182	NUT - 3/4-10 UNC HEX
6	72	CAT# 8T-4994	WASHER - 3/4 INCH - HARDENED

<b>OPT – MTG RACK REAR EXTENSION</b>				037-35-087
ITEM	QTY	PART NO	DESCRIPTION	
1	1*	037-35-088	AS - REAR TOOLBOX	
2	1*	037-35-101	GP - 8X BOTTLE RACK REAR	

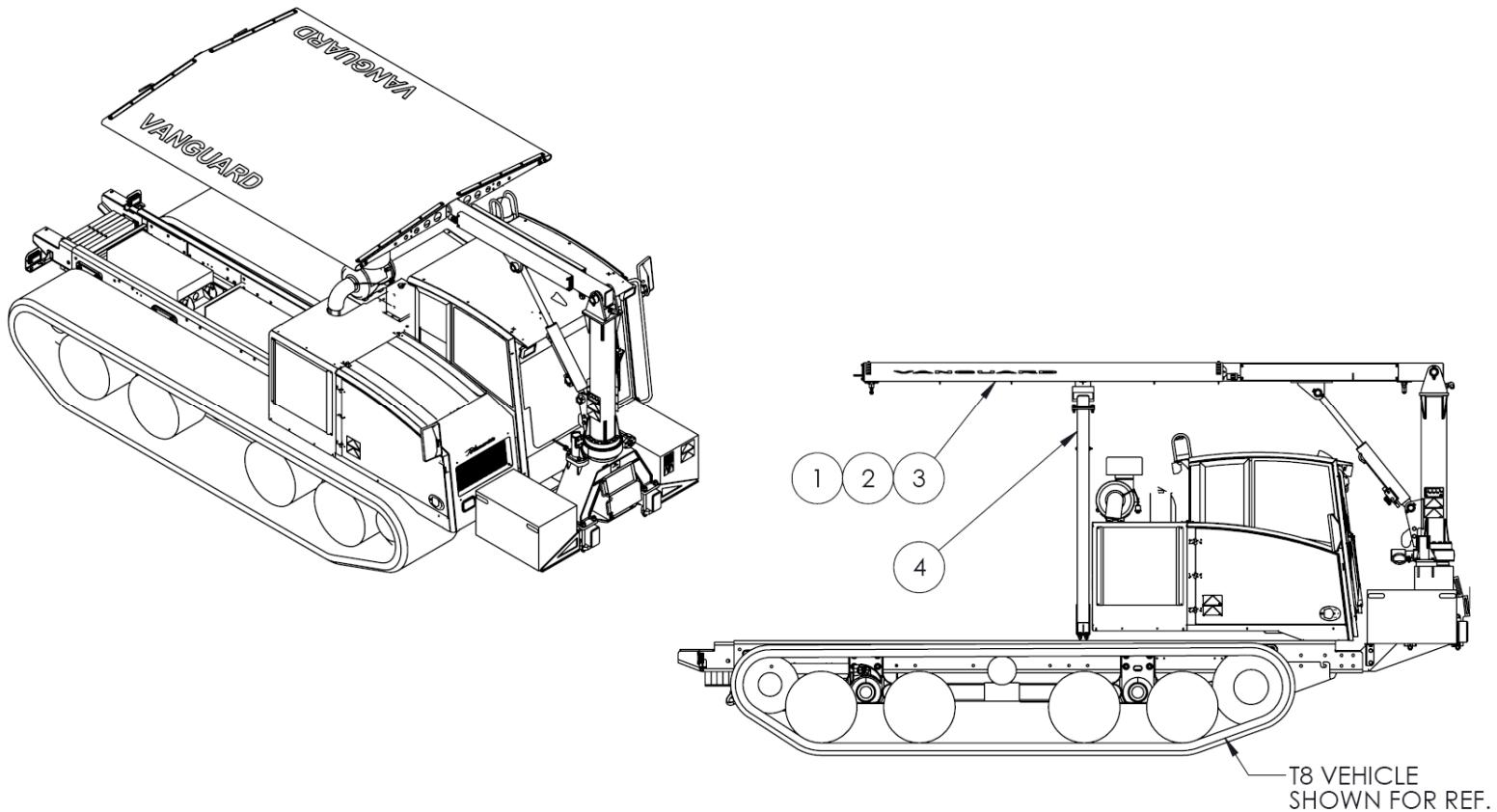
\*SELECT ONE ITEM FROM LIST



AS – REAR TOOLBOX				037-35-088
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-35-089	AS - TOOLBOX 48 X 18 X 18	
2	1	037-35-091	AS - MTG BASE REAR TOOLBOX	
3	1	037-35-096	AS - LH MTG BRKT REAR TOOLBOX	
4	1	037-35-099	AS - RH MTG BRKT REAR TOOLBOX	
5	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
6	4	CAT# 7X-0345	BOLT - 5/8-11 X 1.75 UNC HEX	
7	4	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX	
8	8	CAT# 7X-0448	HDW - NUT 5/8-11 ZINC PLATED HARDENED	
9	24	CAT# 8T-4122	HDW - WASHER 5/8	
10	4	CAT# 8T-9396	HDW - BOLT - 5/8-11 UNC X 3.25 HEX	



GP - 8X BOTTLE RACK REAR				037-35-101
ITEM	QTY	PART NO	DESCRIPTION	
1	2	006-04-009	HDWM - 14 IN STRAP W/ RACHET BUCKLE & 72 IN STRAP - 2-IN WIDE NYLON STRAP	
2	1	006-04-010	HDWM - 14 IN STRAP W/ RACHET BUCKLE & 90 IN STRAP - 2-IN WIDE NYLON STRAP	
3	1	006-04-011	HDWM - 42 IN STRAP W/ RACHET BUCKLE & 97 IN STRAP - 2-IN WIDE NYLON STRAP	
4	1	037-35-102	AS - 8X BOTTLE RACK REAR	
5	2	037-35-114	BOLT - MOD - BOTTLE RACK - MIDDLE ANCHOR	
6	6	CAT# 7X-0354	HDW - BOLT - 5/8-11 UNC X 4.5 HEX	
7	4	CAT# 7X-0448	HDW - NUT 5/8-11 ZINC PLATED HARDENED	
8	16	CAT# 8T-4122	HDW - WASHER 5/8	
9	4	CAT# 8T-9396	HDW - BOLT - 5/8-11 UNC X 3.25 HEX	



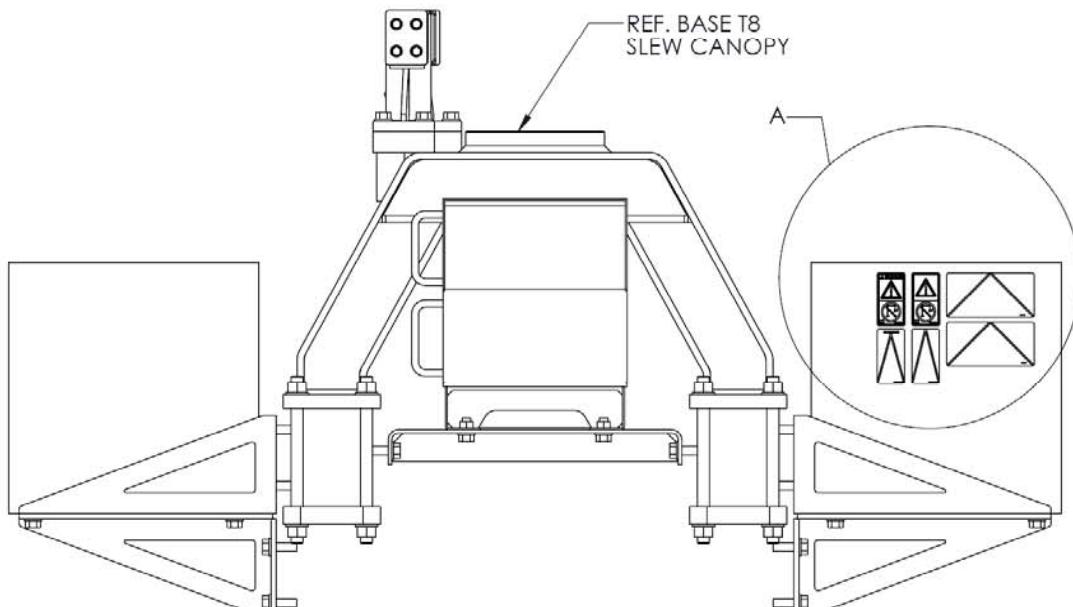
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-09-031	GP - SLEWING CANOPY BASE DECALS
2	1	037-09-024	GP - SLEWING CANOPY DECALS
3	1	037-20-140	AR - T8 SLEW CANOPY
4	1	037-20-161	GP - SLEWING STOW ARM INSTALL

**DECAL APPLICATION:**

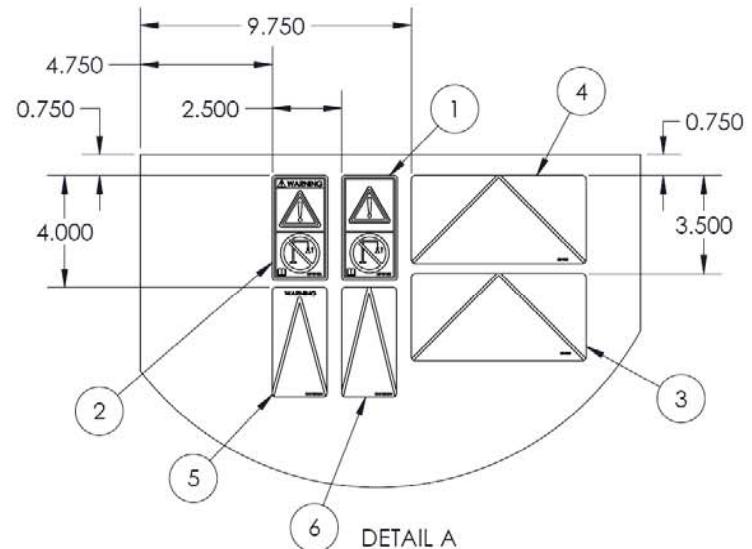
THE SURFACE SHOULD BE THOROUGHLY CLEANED AND DRIED WITH REAGENT GRADE SOLVENT SUCH AS HEPTANE (FOR OILY SURFACES) OR ISOPROPYL ALCOHOL (NOT RUBBING ALCOHOL).  
 INSTALL WITH A HARD EDGED PLASTIC TOOL WHICH IS THE FULL WIDTH OF THE DECAL WITH A PRESSURE OF 10-15 PSI.  
 APPLY DECAL IN THE TEMPERATURE RANGE OF 60°F (15.6°C) TO 100°F (38°C).



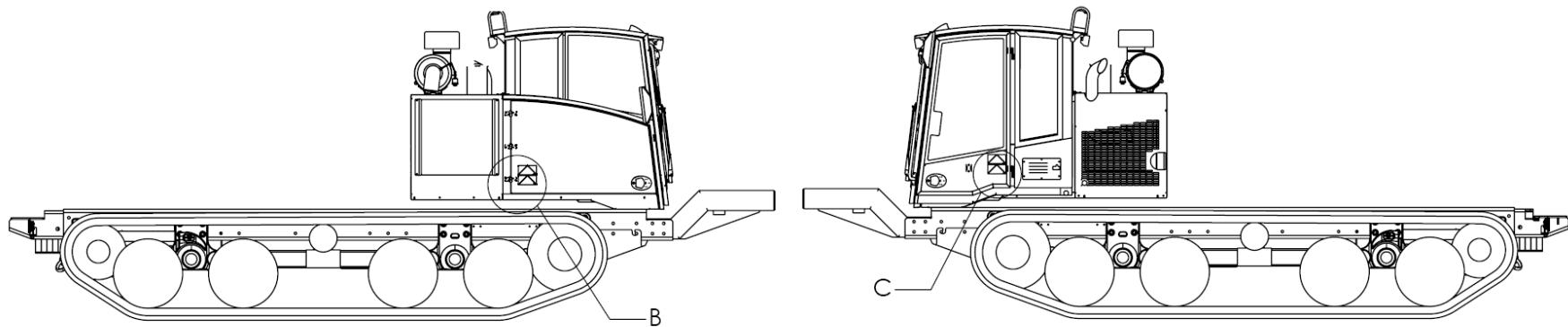
NOTE: ALL DIMENSIONS  $\pm \frac{1}{8}$ " TYP



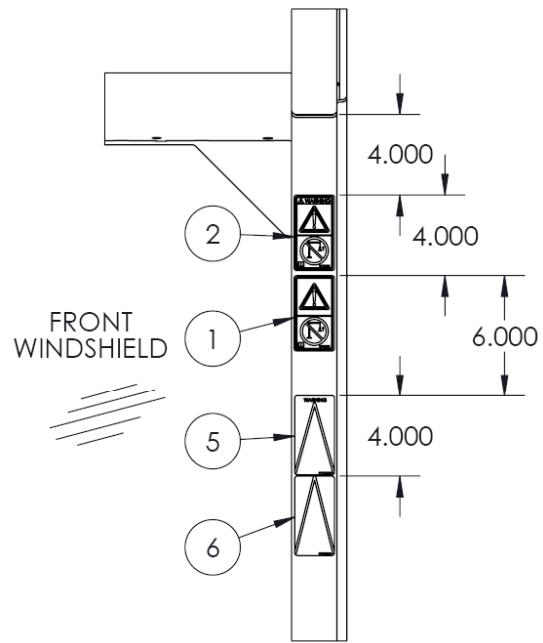
VIEW FROM FRONT



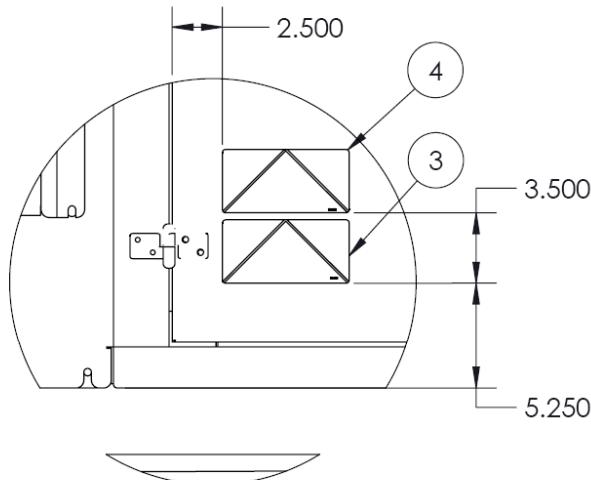
SEE T8 DECAL DETAILS ON SHEET 2



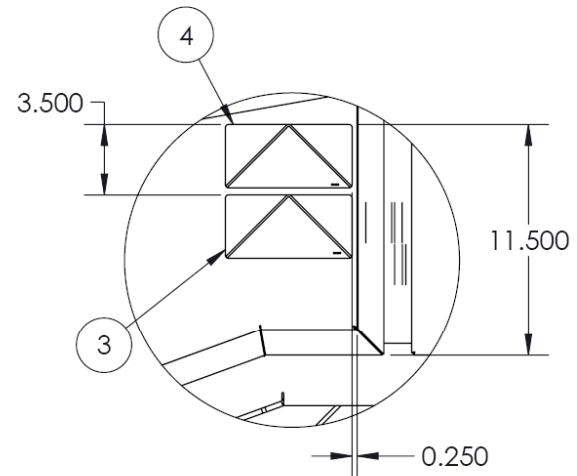
NOTE: ALL DIMENSIONS  $\pm \frac{1}{8}$ " TYP



VIEW FROM OPERATOR'S SEAT  
RIGHT HAND PILLAR



DETAIL B



DETAIL C

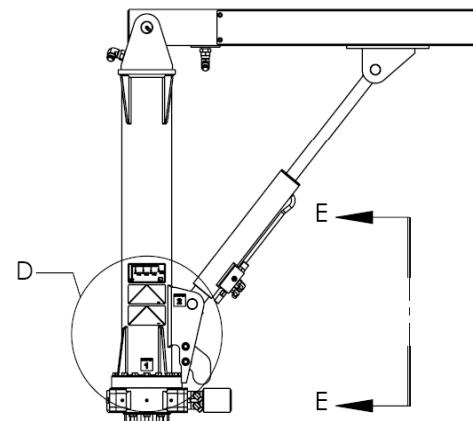
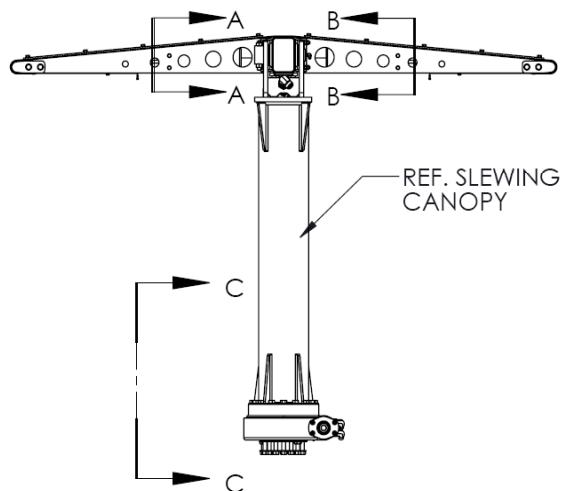
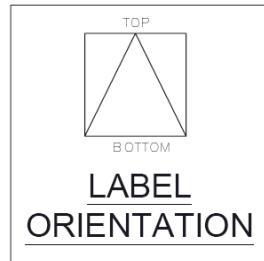
**DECAL APPLICATION:**

THE SURFACE SHOULD BE THOROUGHLY CLEANED AND DRIED WITH REAGENT GRADE SOLVENT SUCH AS HEPTANE (FOR OILY SURFACES) OR ISOPROPYL ALCOHOL (NOT RUBBING ALCOHOL).  
INSTALL WITH A HARD EDGED PLASTIC TOOL WHICH IS THE FULL WIDTH OF THE DECAL WITH A PRESSURE OF 10-15 PSI.  
APPLY DECAL IN THE TEMPERATURE RANGE OF 60°F (15.6°C) TO 100°F (38°C).

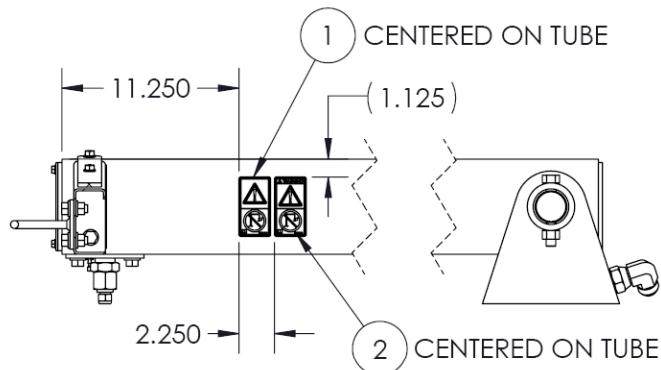
GP - SLEWING CANOPY BASEDECALS				037-09-031
ITEM	QTY	PART NO	DESCRIPTION	
1	2	037-09-025	FILM-WARN INTL-NOT A LIFTING DEVICE	
2	2	037-09-026	FILM-WARN US-NOT A LIFTING DEVICE	
3	3	CAT# 226-1240	FILM-WARN-CRUSH,STAY BACK,INTL	
4	3	CAT# 226-1242	FILM-WARN(CRUSH, STAY BACK,US)	
5	2	CAT# 228-2615	FILM - WARNING (UNIVERSAL, READ OMM U.S.)	
6	2	CAT# 228-2616	FILM - WARNING (UNIVERSAL, READ OMM)	

**DECAL APPLICATION:**

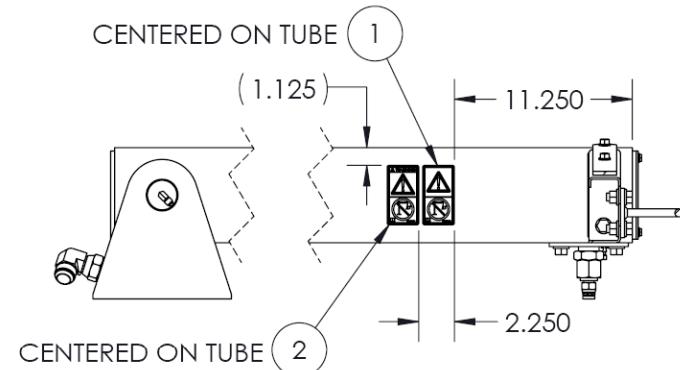
THE SURFACE SHOULD BE THOROUGHLY CLEANED AND DRIED WITH REAGENT GRADE SOLVENT SUCH AS HEPTANE (FOR OILY SURFACES) OR ISOPROPYL ALCOHOL (NOT RUBBING ALCOHOL).  
INSTALL WITH A HARD EDGED PLASTIC TOOL WHICH IS THE FULL WIDTH OF THE DECAL WITH A PRESSURE OF 10-15 PSI.  
APPLY DECAL IN THE TEMPERATURE RANGE OF 60°F (15.6°C) TO 100°F (38°C).



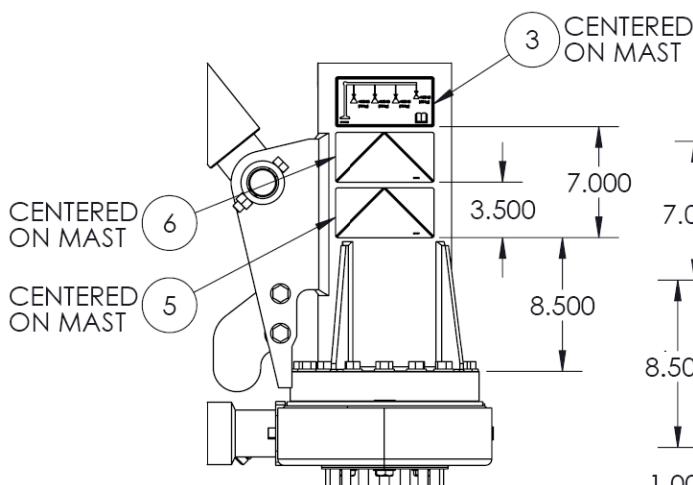
NOTE: ALL DIMENSIONS  $\pm \frac{1}{8}$ " TYP



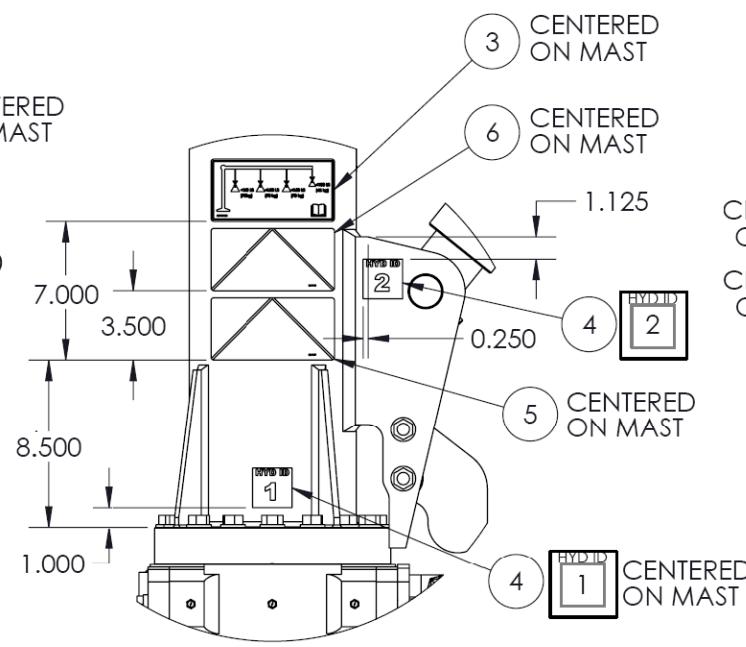
## SECTION A-A



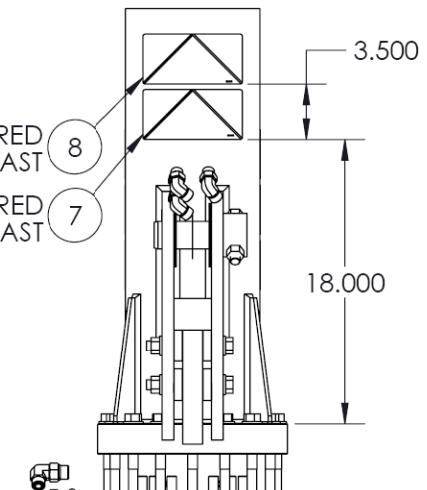
SECTION B-B



## SECTION C-C



## DETAIL D

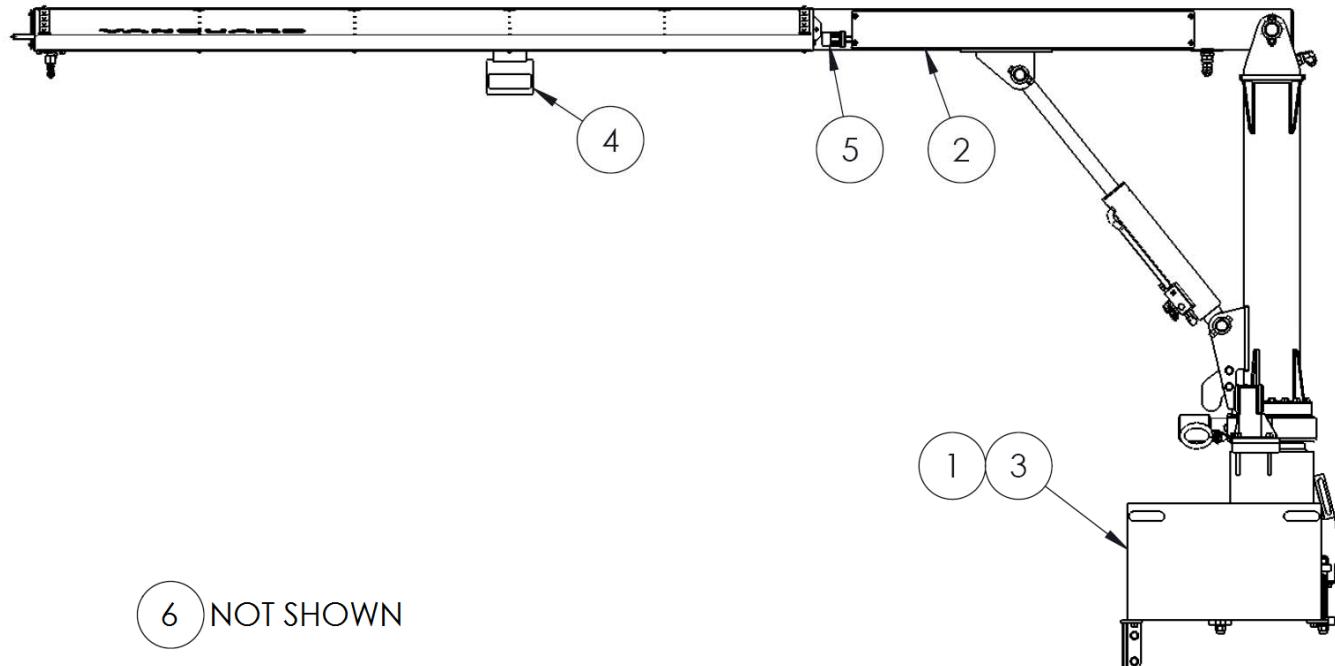


SECTION E-E

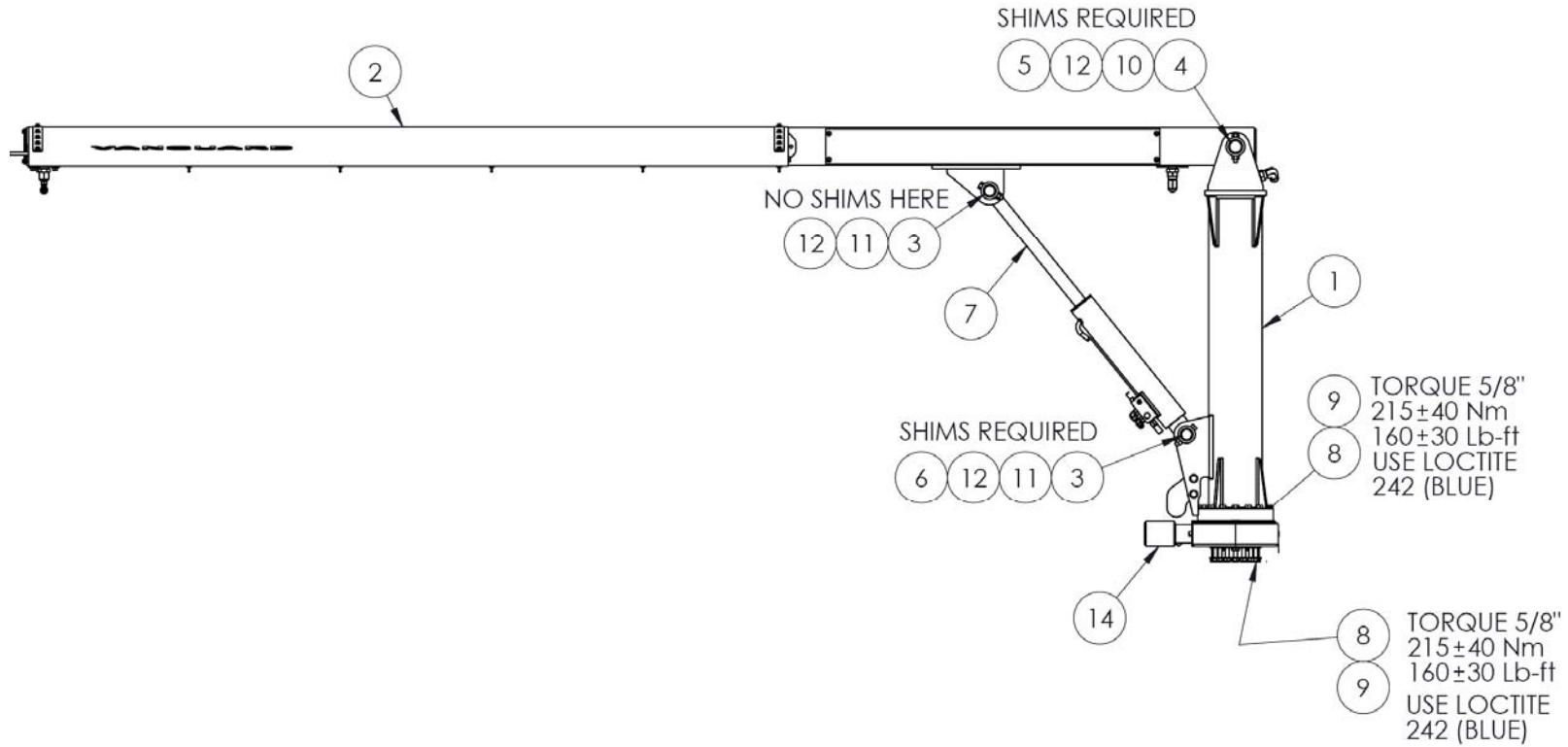
## **DECAL APPLICATION:**

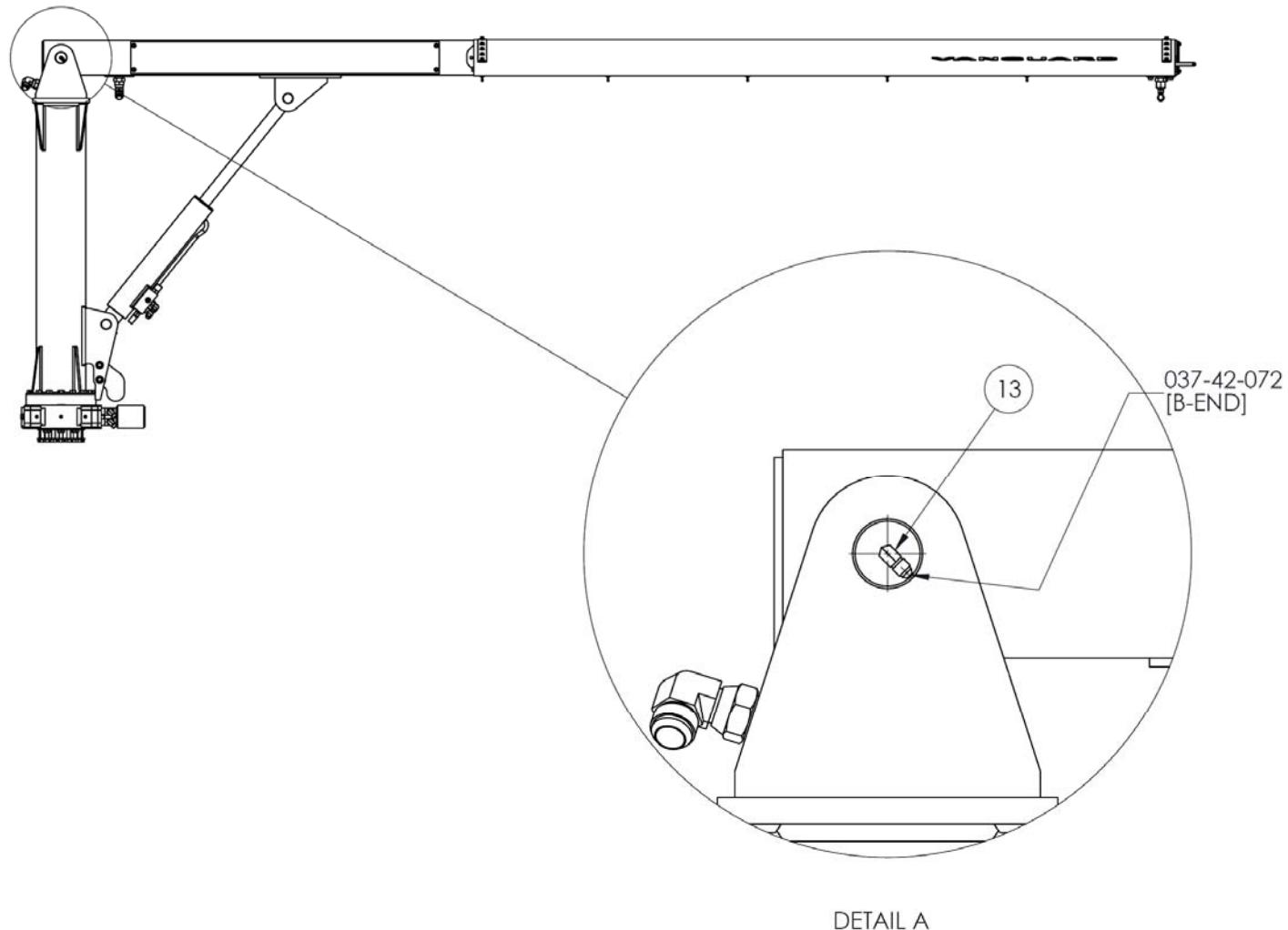
**DECAL APPLICATION:**  
THE SURFACE SHOULD BE THOROUGHLY CLEANED AND DRIED WITH REAGENT GRADE SOLVENT SUCH AS HEPTANE (FOR OILY SURFACES) OR ISOPROPYL ALCOHOL (NOT RUBBING ALCOHOL).  
INSTALL WITH A HARD EDGED PLASTIC TOOL WHICH IS THE FULL WIDTH OF THE DECAL WITH A PRESSURE OF 10-15 PSI.  
APPLY DECAL IN THE TEMPERATURE RANGE OF 60°F (15.6°C) TO 100°F (38°C).

GP - SLEWING CANOPY DECALS				037-09-024
ITEM	QTY	PART NO	DESCRIPTION	
1	2	037-09-025	FILM-WARN INTL-NOT A LIFTING DEVICE	
2	2	037-09-026	FILM-WARN US-NOT A LIFTING DEVICE	
3	2	037-09-033	FILM - LOAD CAPACITY SLEW CANOPY	
4	1	037-09-034	FILM - HYD ID # 1, 2	
5	2	CAT# 224-1379	FILM - WARNING (ELECTROCUTION)	
6	2	CAT# 224-7736	FILM - DANGER (ELECTROCUTION U.S.)	
7	1	CAT# 226-1240	FILM-WARN-CRUSH,STAY BACK,INTL	
8	1	CAT# 226-1242	FILM-WARN(CRUSH, STAY BACK,US)	



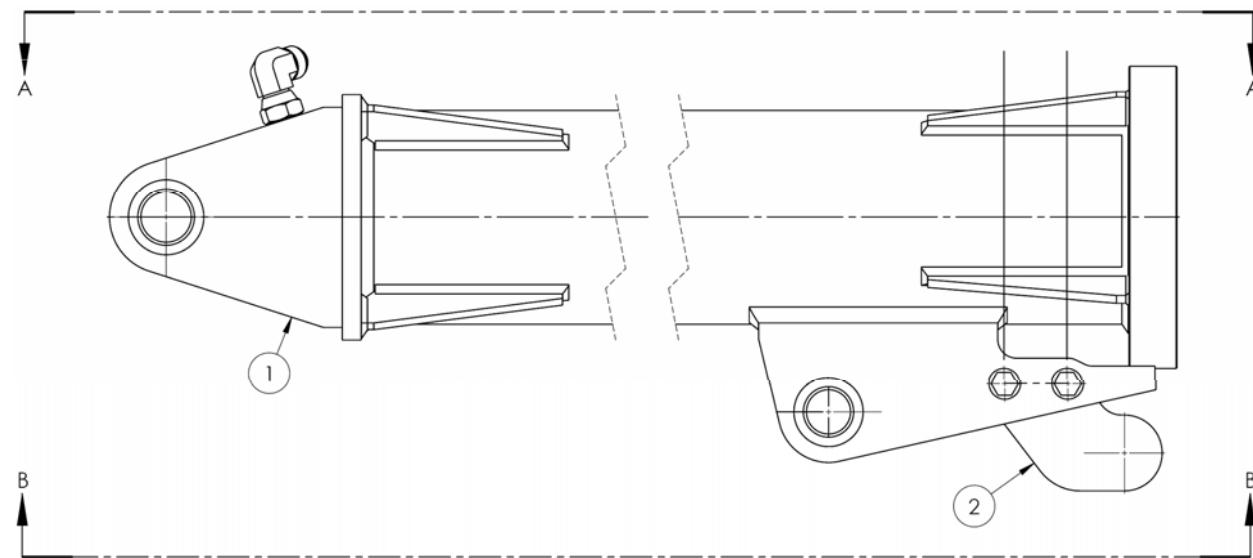
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-09-032	AS - ID TAG T8 SLEWING CANOPY
2	1	037-20-141	GP - SLEW CANOPY
3	1	037-20-151	AR - BASE T8 SLEW CANOPY
4	1	037-20-172	GP - REST SLEWING CANOPY
5	1	037-40-066	GP - WELDING CABLE & GRINDER CORD
6	1	037-42-057	GP - HOSE CHART - SLEWING CANOPY

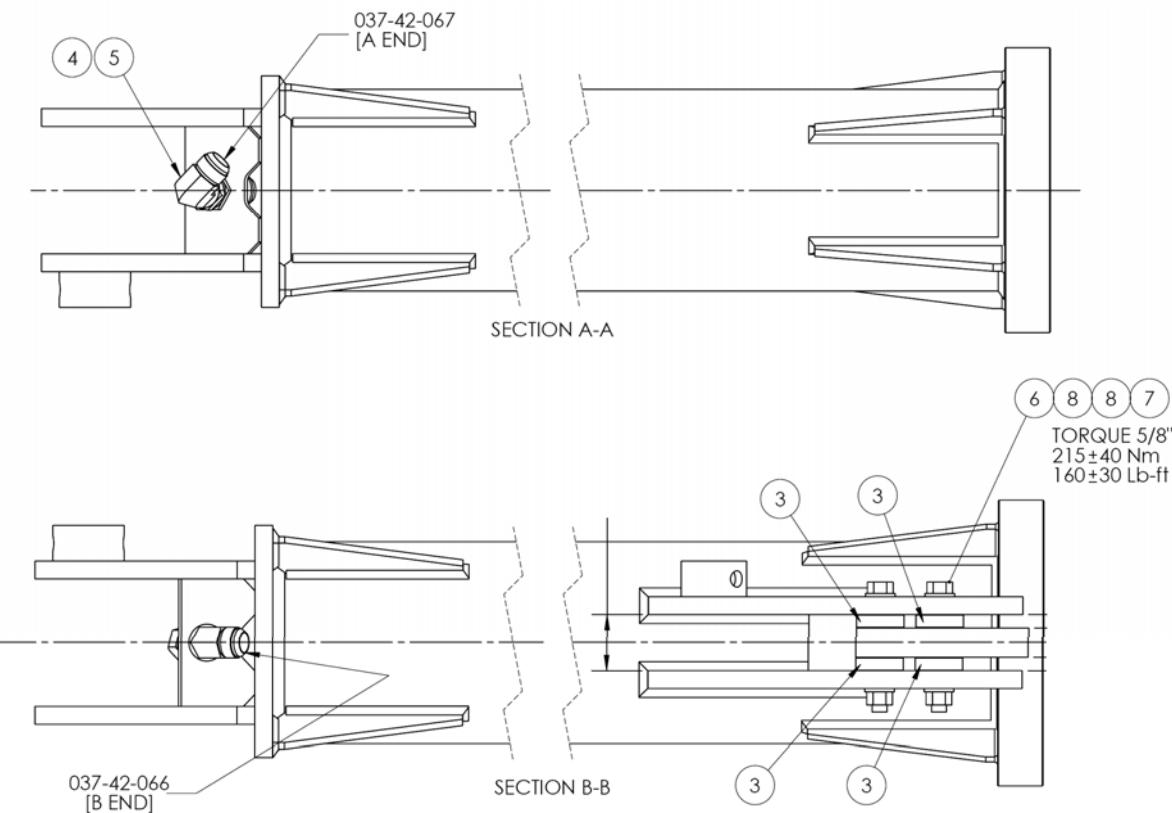




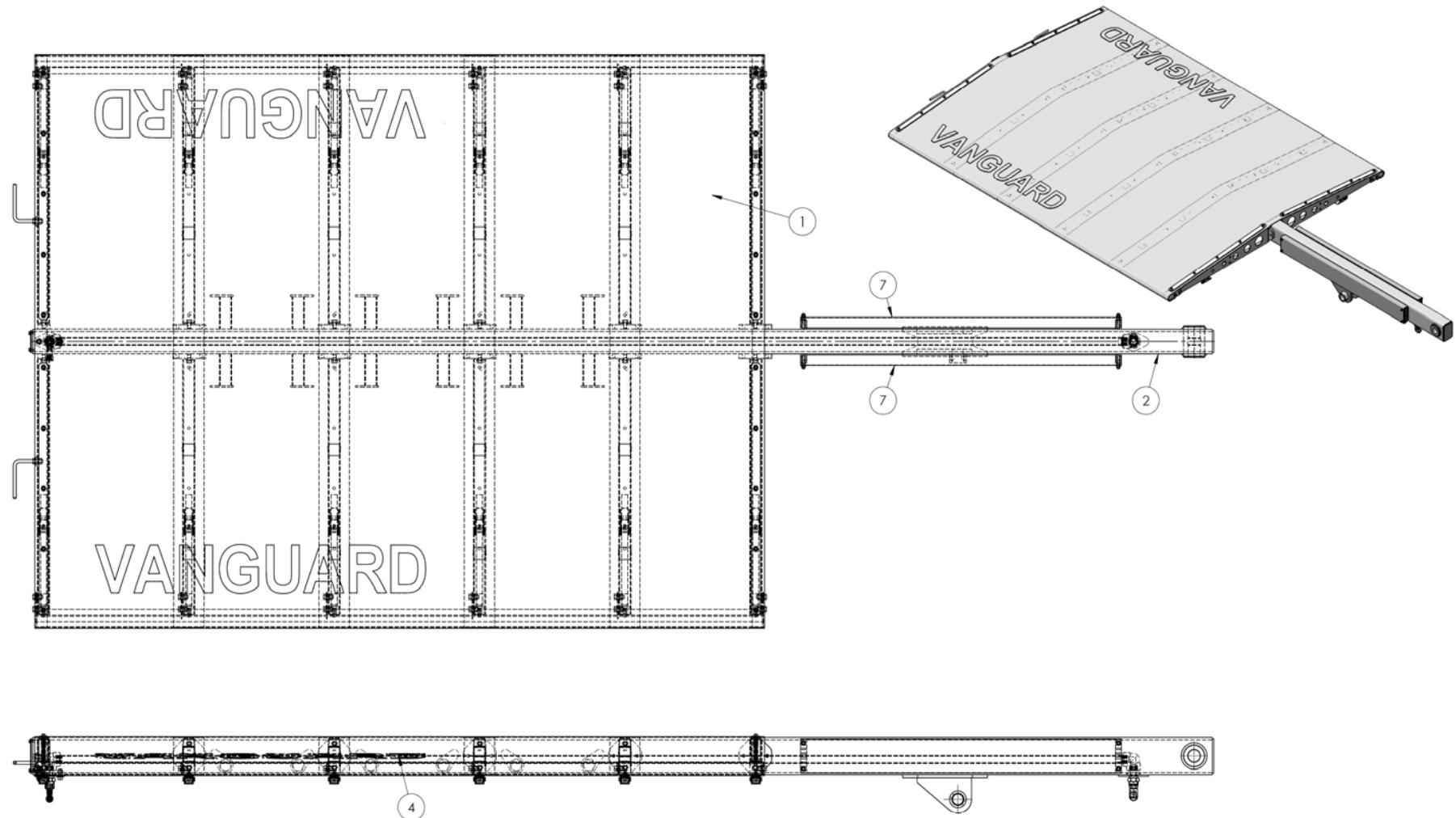
DETAIL A

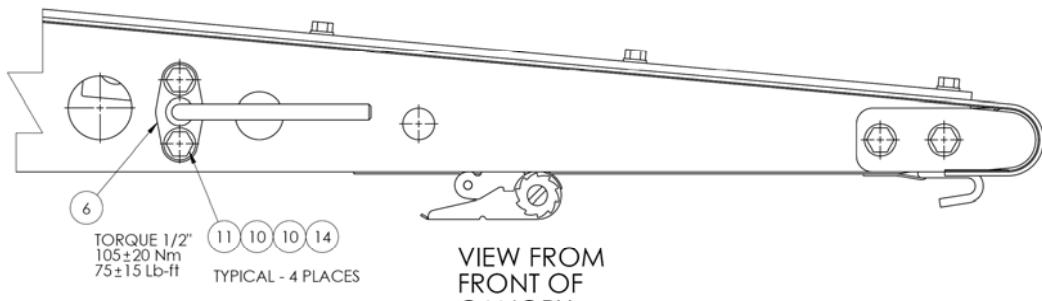
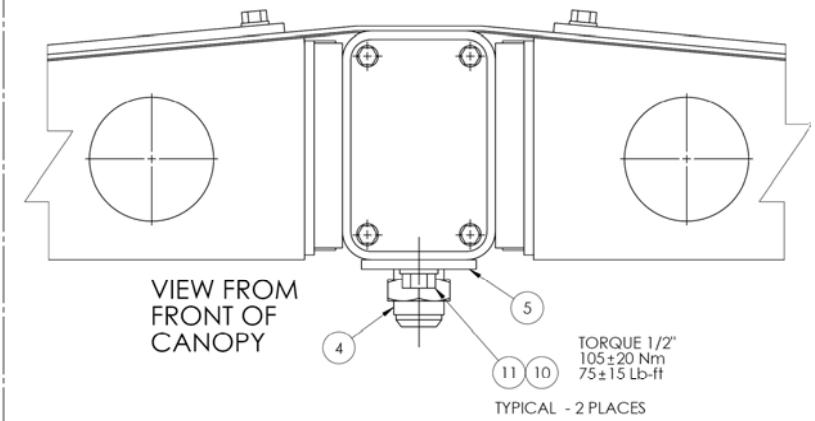
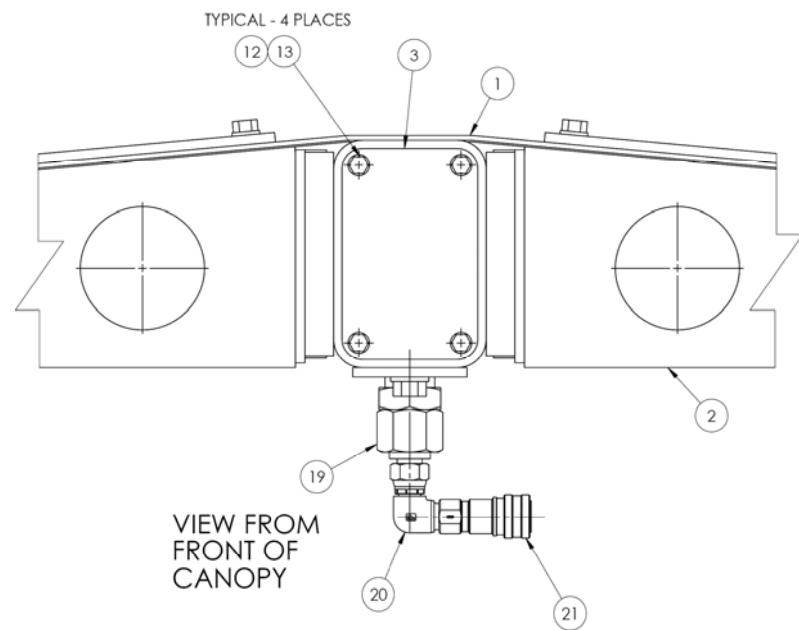
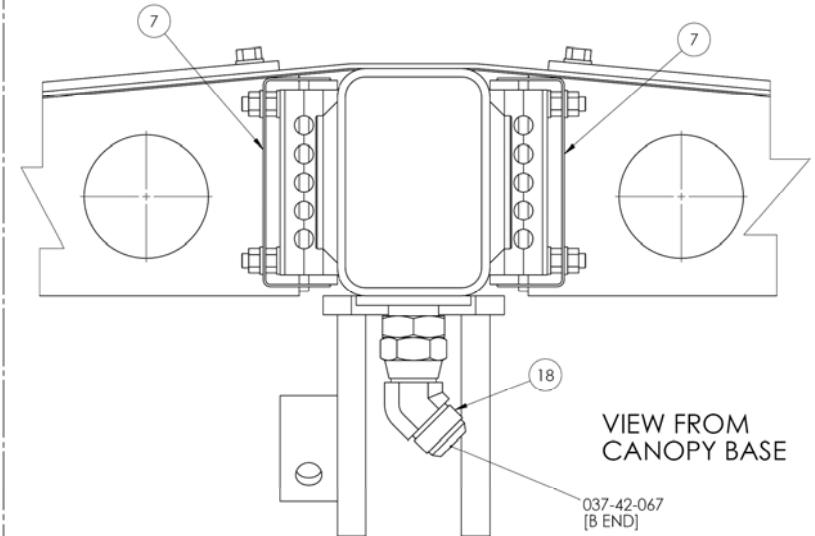
GP - SLEW CANOPY				037-20-141
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-20-142	AS - UPPER MAST MACHINING	
2	1	037-20-047	AS - SLEWING CANOPY TUBE - ASSEMBLY	
3	2	037-20-092	RB - PIN, CYLINDER BARREL AND ROD	
4	1	037-20-093	RB - PIN, BOOM FOOT	
5	1	037-20-096	AS - SHIM STACK - BOOM FOOT	
6	1	037-20-098	AS - SHIM STACK - CYL BAR END	
7	1	037-20-138	GP - CYL - SLEW CANOPY	
8	31	CAT# 7X-0354	HDW - BOLT - 5/8-11 UNC X 4.5 HEX	
9	31	CAT# 8T-4122	HDW - WASHER 5/8	
10	1	CAT# 7X-0352	HDW - BOLT - 5/8-11 UNC X 4.0 HEX	
11	2	CAT# 7X-0351	HDW - BOLT - 5/8-11 UNC X 3.75 HEX	
12	3	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	
13	1	CAT# 2N-1287	FF - #4 JIC M X 1/8-27 NPTF M - 90 DEG	
14	1	037-20-205	GP - HYD SLEW DRIVE	

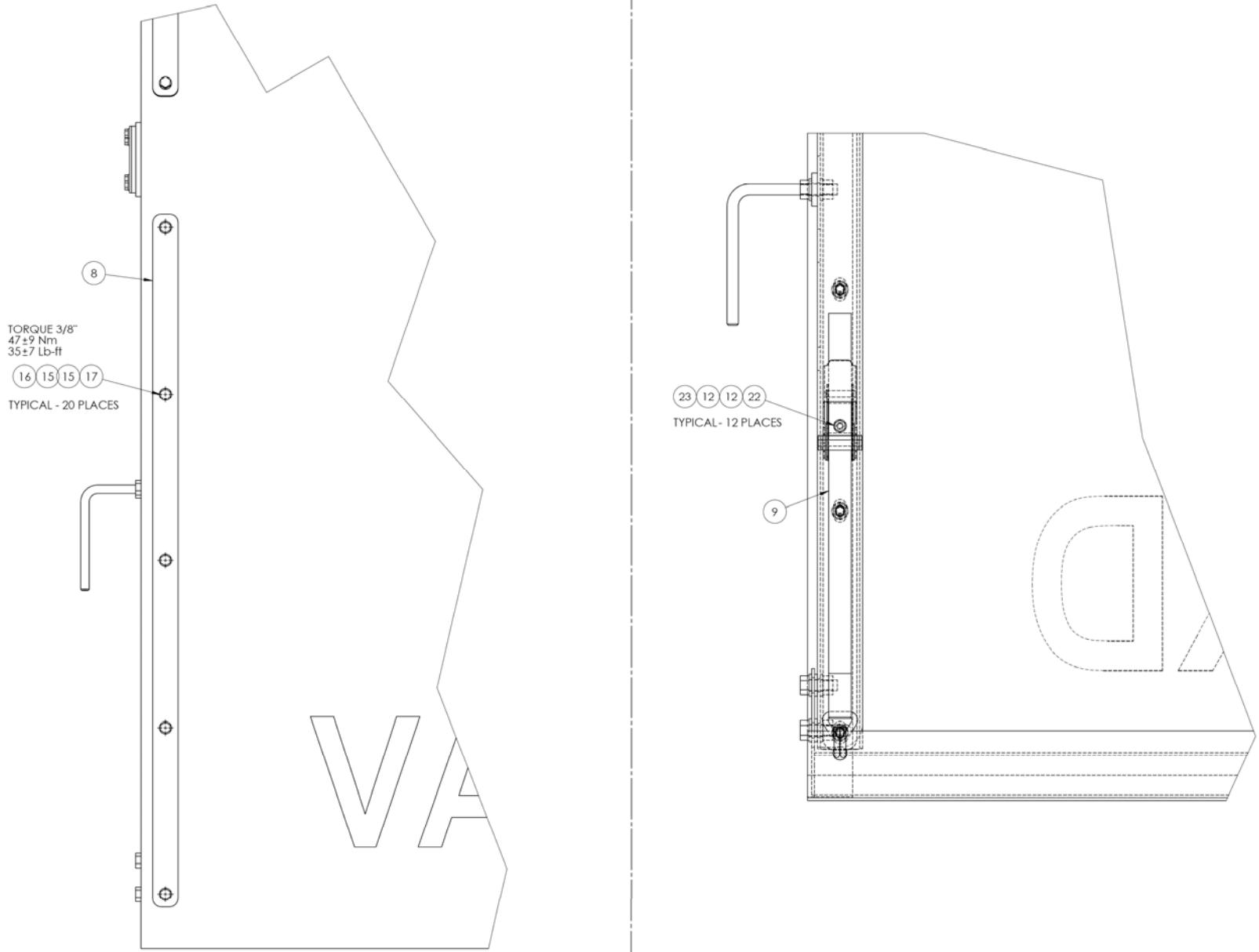




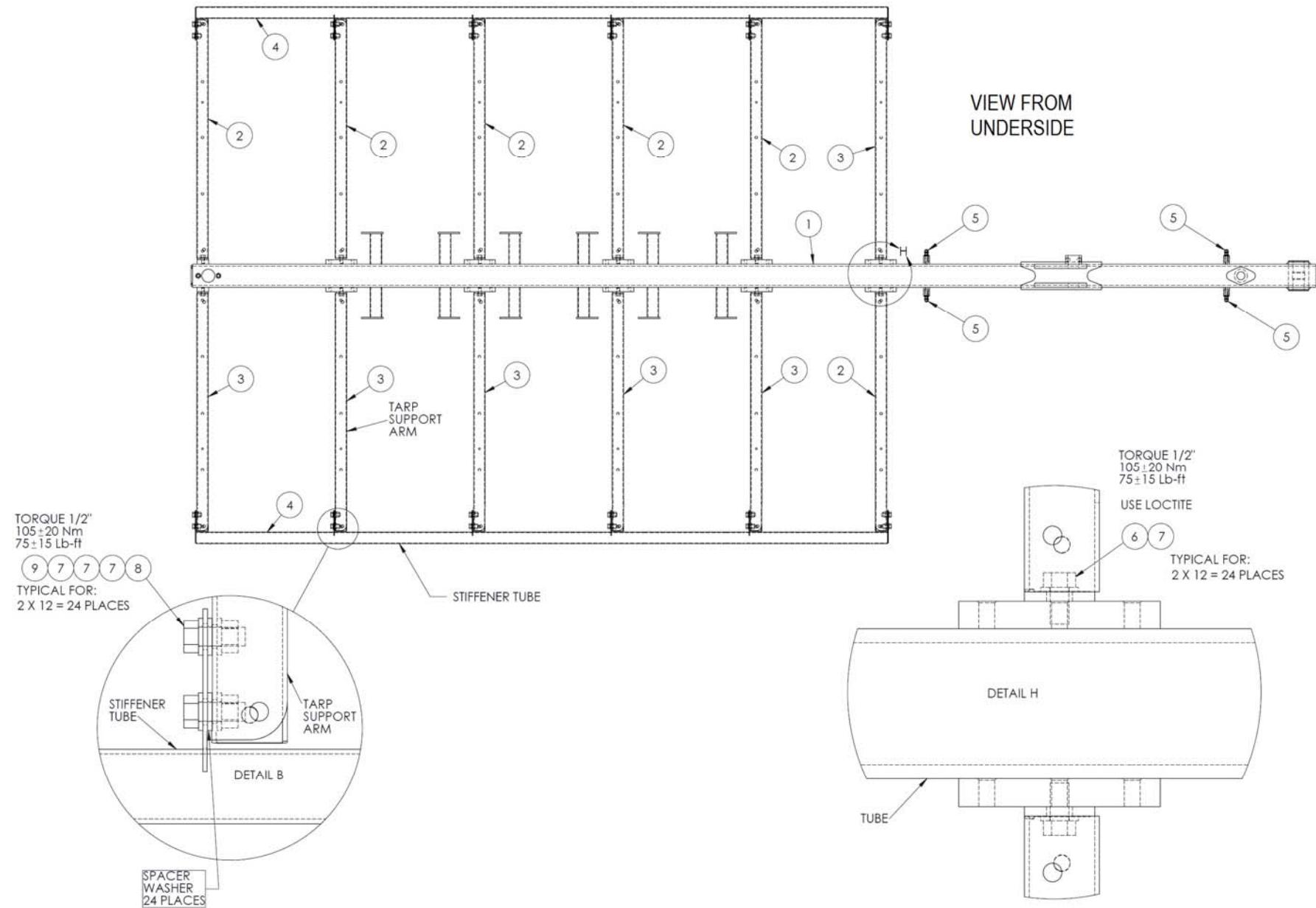
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-038	AS - UPPER MAST FABRICATION
2	1	037-20-185	PLT - ROTATE STOP - MAST STOP
3	4	037-20-186	RB - ROTATE STOP - SPACER
4	1	PARK# 16-WNTX-WLN-S	FF - #16 JIC 45 BULKHEAD C/W NUT
5	1	CAT# 031-5744	FF - 90 EL SWIVEL (16 JIC FEMALE x 16 JIC MALE)
6	2	CAT# 7X-0356	HDW - BOLT - 5/8-11 X 5 HEX
7	2	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD
8	4	CAT# 8T-4122	HDW - WASHER 5/8



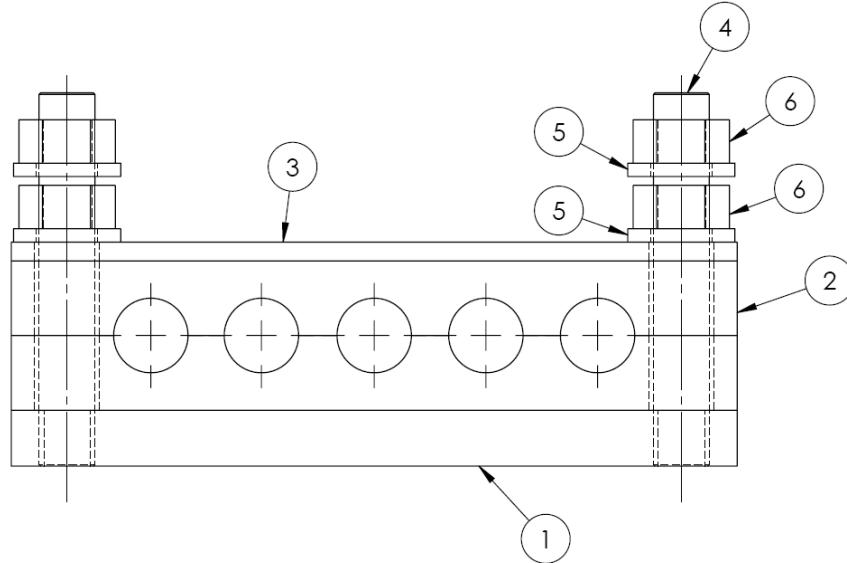
VIEW FROM  
FRONT OF  
CANOPYVIEW FROM  
FRONT OF  
CANOPYVIEW FROM  
FRONT OF  
CANOPYVIEW FROM  
CANOPY BASE



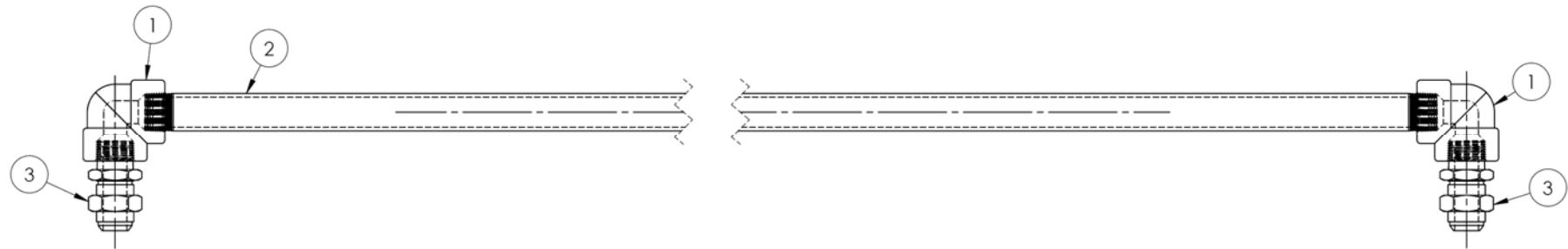
AS - SLEWING CANOPY TUBE - ASSEMBLY				037-20-047
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-20-048	HDWM - 18 OZ YELLOW VINYL TARP	
2	1	037-20-206	AS - SLEWING CANOPY TUBE - FABRICATION	
3	1	037-20-085	PLT - TACK RIG - BOOM END COVER PLATE	
4	1	037-20-086	AS - BOOM AIR LINE	
5	1	037-20-088	PLT - AIR LINE PIPE BULKHEAD AT BOOM TIP	
6	2	037-20-089	AS - TACK RIG - AIR HOSE HOLDER	
7	2	037-20-095	PLT - TACK RIG - FORMED CABLE COVER	
8	4	037-20-171	FB - TARP HOLDING BAR - ALUMINUM	
9	12	037-20-197	GP - TARP HOLD DOWN STRAP	
10	10	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
11	6	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
12	28	CAT# 8T-4205	WASHER - 1/4 IN - FLAT HARD	
13	4	CAT# 4M-5281	HDW - BOLT 1/4"-3/4	
14	4	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	
15	40	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD	
16	20	CAT# 2K-4973	HDW - LOCK NUT 3/8"	
17	20	CAT# 9B-7237	HDW - BOLT-3/8-16UNCx1.25 HEX	
18	1	CAT# 030-7966	FF - 45 EL SWIVEL (16 JIC FEMALE x 16 JIC MALE)	
19	1	PARK# 2406-16-8	FF - REDUCER (16 JIC FEMALE x 8 JIC MALE)	
20	1	PARK# 6501-8-6	FF - 90 EL SWIVEL 8 JIC FEMALE x 6 NPTF MALE)	
21	1	PARK# H2-62-6FP	FF - AIR QUICK DISCONNECT (3/8" NPT FEMALE)	
22	12	CAT# 8T-8908	HDW - BOLT 1/4-20 x 1"	
23	12	CAT# 2D-6235	NUT - LOCK 1/4-20NC	



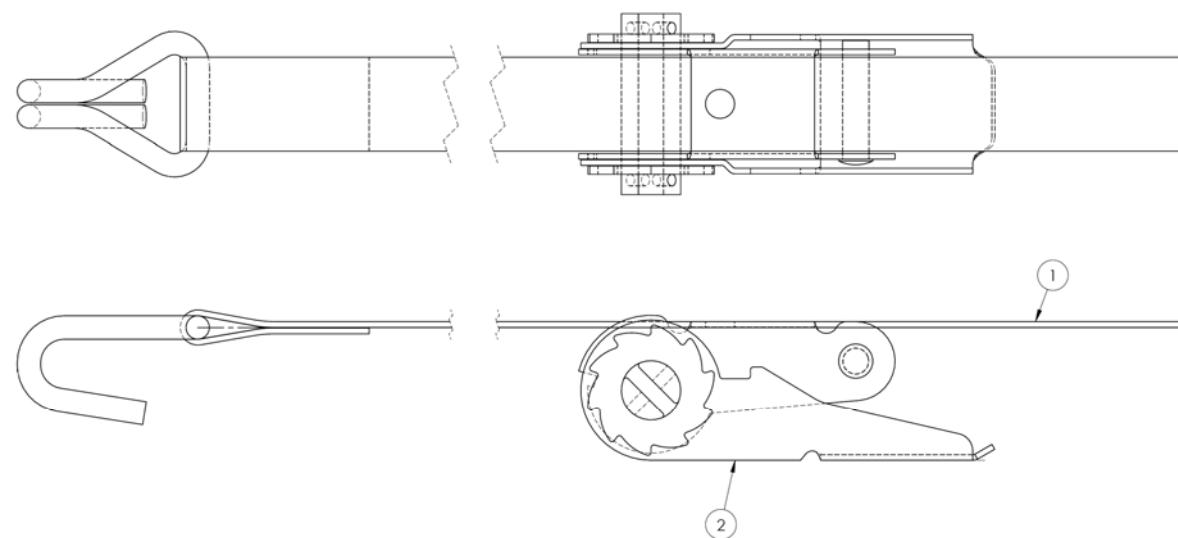
AS - SLEWING CANOPY FRAME				037-20-206
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-20-049	AS - SLEWING CANOPY TUBE - FABRICATION	
2	6	037-20-050	AS - TARP SUPPORT ARM - FABRICATION #1	
3	6	037-20-051	AS - TARP SUPPORT ARM - FABRICATION #2	
4	2	037-20-052	AS - TARP SUPPORT ARM STIFFENER TUBE FABRICATION	
5	4	037-20-064	AS - CLAMP - 5 HOLE	
6	24	CAT# 5P-2228	HDW - BOLT- 1/2-13UNC X 1 LNG HEX HD-PLATED	
7	96	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED	
8	24	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG	
9	24	CAT# 1K-6872	NUT, SELF LOCK 1/2-13NC	



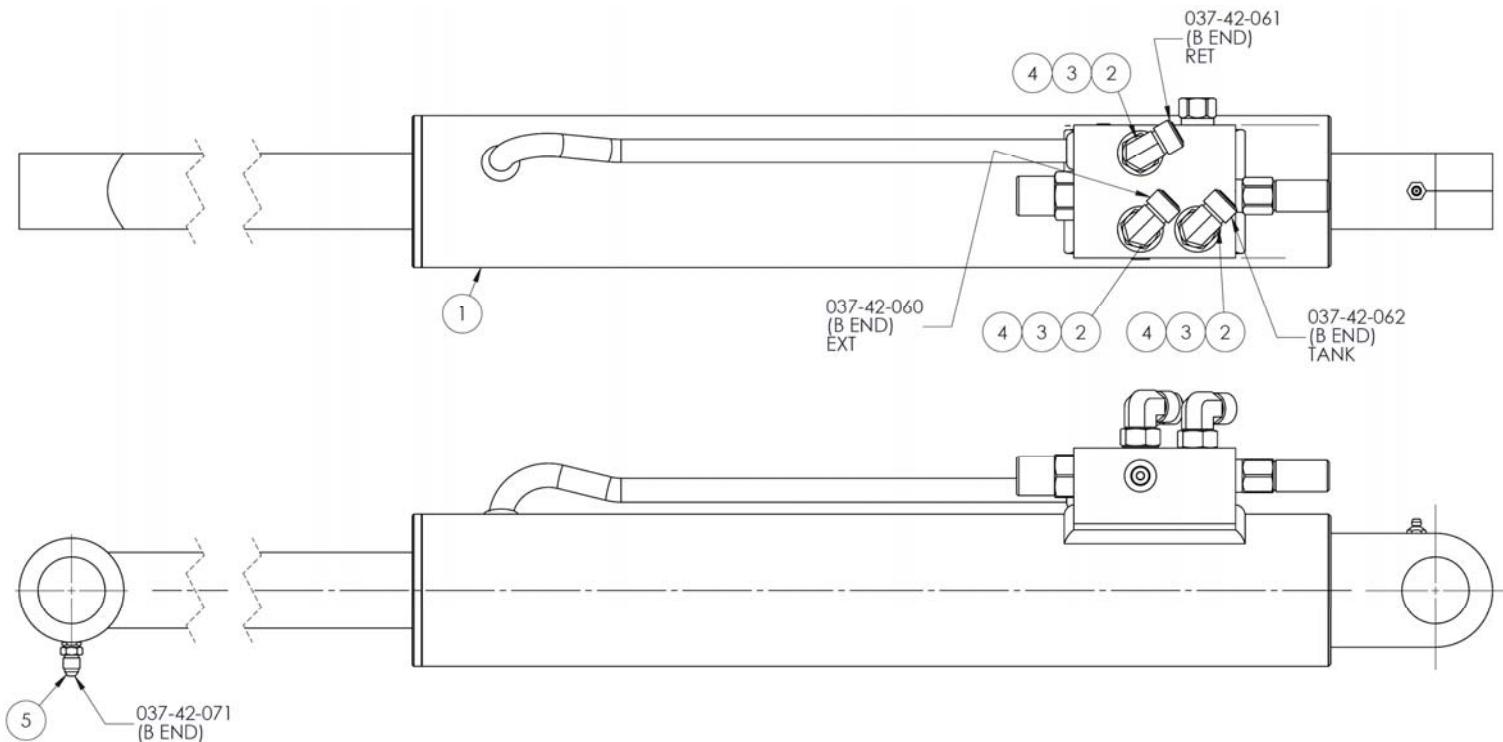
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-065	FB - CLAMP - BOTTOM BOLTING BAR
2	1	037-20-066	UHMW PLASTIC BAR - CLAMP
3	1	037-20-067	PLT - CLAMP - TOP PLATE
4	2	037-20-100	THREADED ROD - 3/8-16 UNC
5	4	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD
6	4	CAT# 2K-4973	HDW - LOCK NUT 3/8"



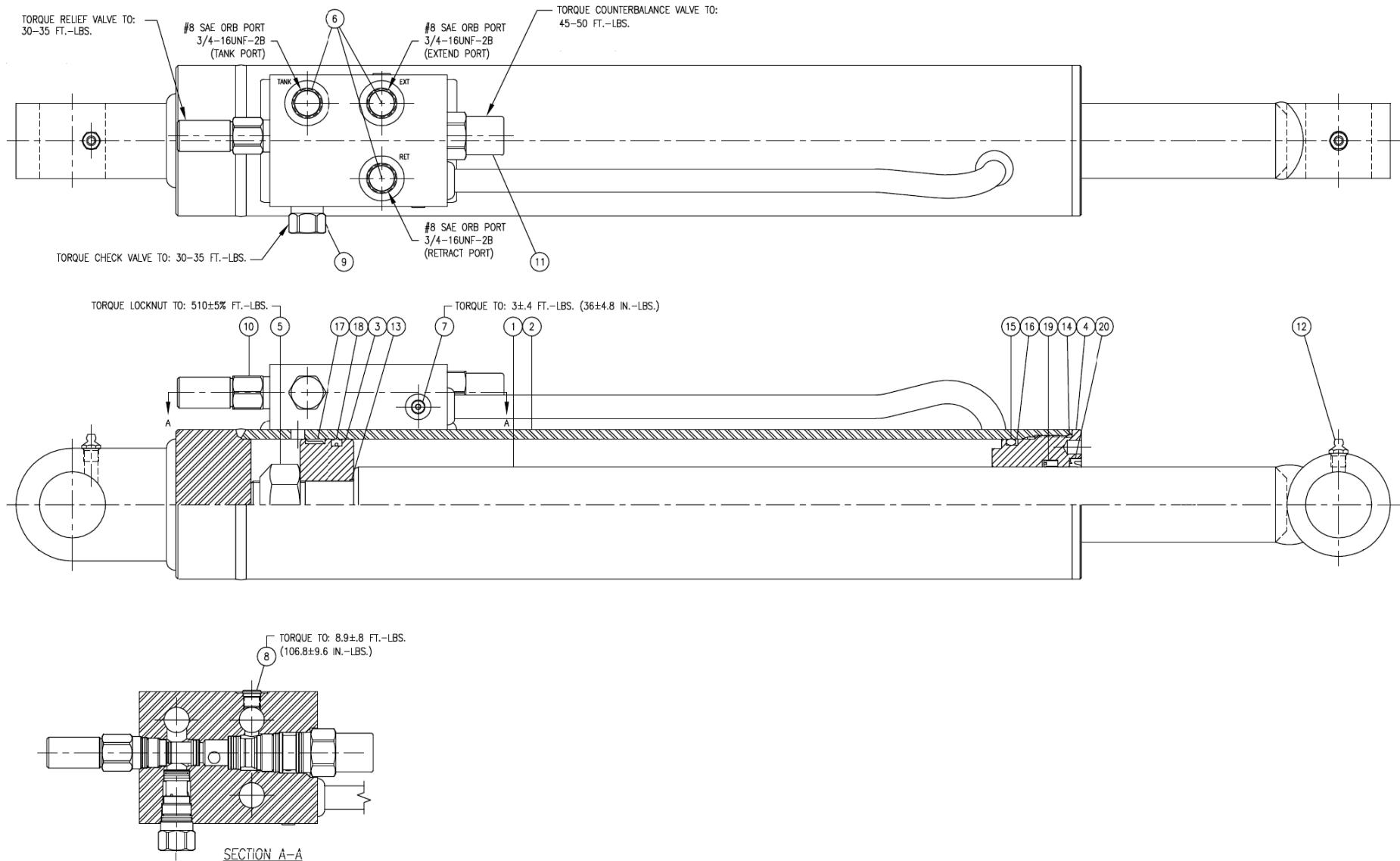
ITEM	QTY	PART NO	DESCRIPTION
1	2	037-43-010	FF - PIPE FITTING - BLACK STEEL 90 DEG ELBOW
2	1	037-20-087	TUBE - 1" SCH 40 PIPE THREADED 1" NPT ON BOTH ENDS
3	2	PARK# 16_WFTX-S	FF - BULKHEAD FITTING - 1" NPT X NO 16 JIC



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-194	HDWM - TARP HOLD DOWN STRAP
2	1	037-20-198	HDWM - 1" RATCHET

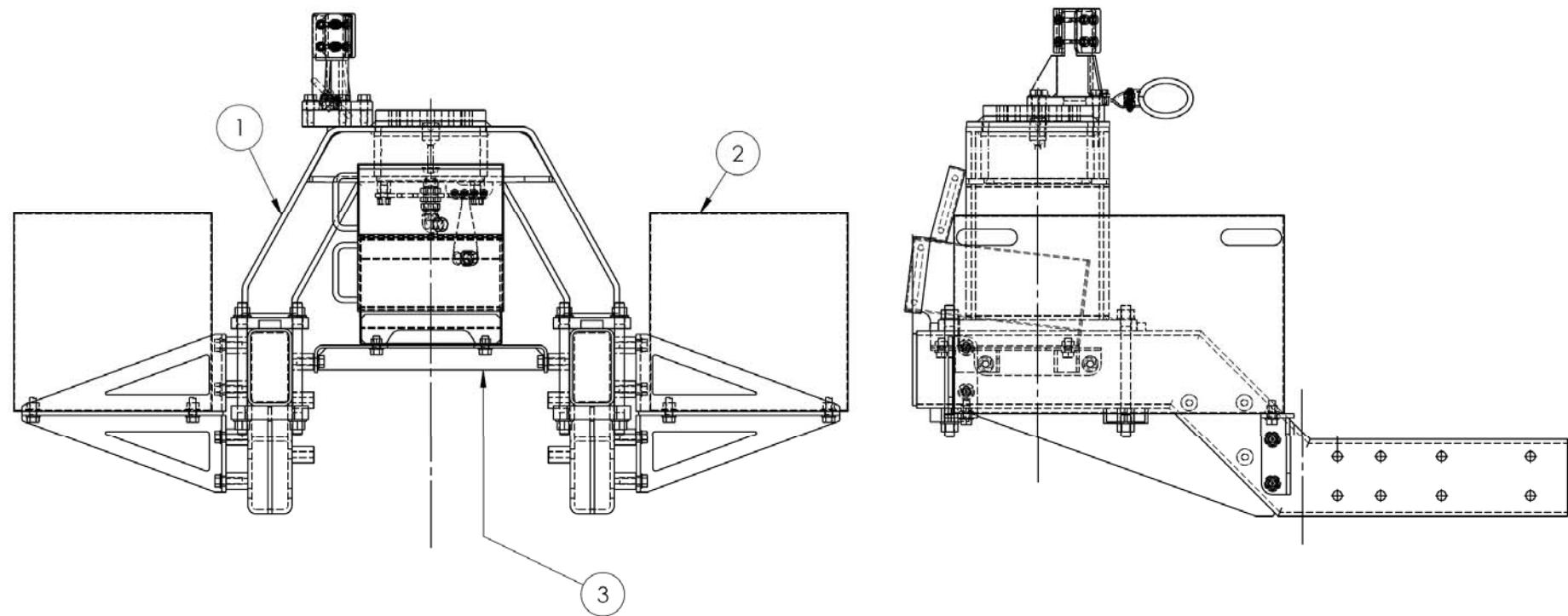


ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-139	FC -CYL-(3.5 DIAx17-W/LOAD-V)
2	3	CAT# 6V-8625	90° EL - ORFS M/STOR BOSS -8/-8
3	3	CAT# 3K-0360	FF - O-RING STOR-8
4	3	CAT# 6V-8398	O-RING ORFS -8
5	1	CAT# 8L-6557	FF - ADAPTER -4 JIC 37 M / -2 NPT M

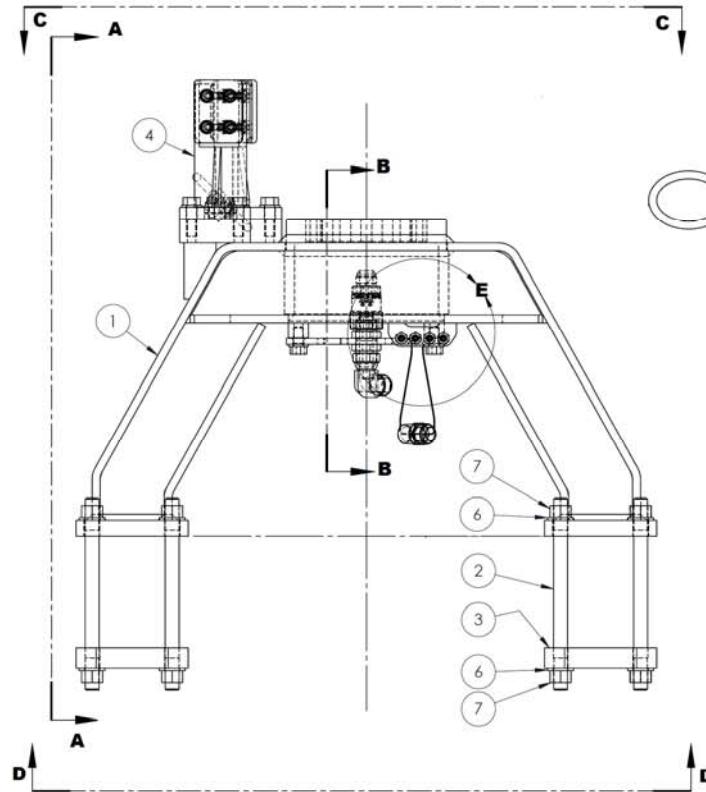


FC -CYL-(3.5 DIAx17-W/LOAD-V)			037-20-139
ITEM	QTY	PART NO	DESCRIPTION
1	1	100513	PISTON ROD ASSEMBLY
2	1	100514	BUTT & TUBE ASSEMBLY
3	1	100515	PISTON ROD ASSEMBLY
4	1	100516	GLAND
5	1	100517	LOACKNUT
6	3	100518	SHIPPING PLUG
7	1	100519	ZERO LEAK PLUG
8	1	100520	ZERO LEAK PLUG
9	1	100521	CHECK VALVE
10	1	100522	RELIEF VALVE
11	1	100523	COUNTERBALANCE VALVE
12	2	100524	GREASE ZERK
13	1*	100525	O-RING
14	1*	100526	O-RING
15	1*	100527	O-RING
16	1*	100528	BU-WASHER
17	1*	100529	BEARING RING
18	1*	100530	CROWN SEAL
19	1*	100531	U-CUP
20	1*	100532	WIPER
21	1	100533	PACKING KIT

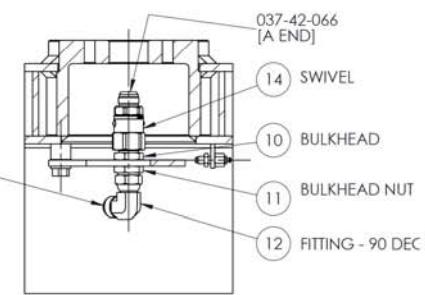
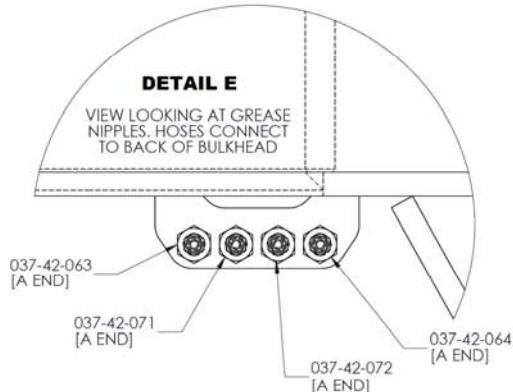
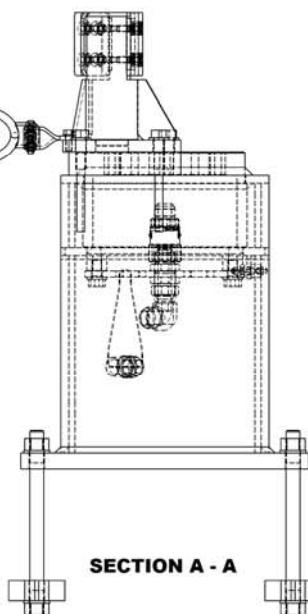
\* PART OF PACKING KIT



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-143	GP - BASE T8 SLEW CANOPY
2	1	037-35-074	GP - TOOLBOX
3	1	037-35-081	GP - WELDING ROD BOX

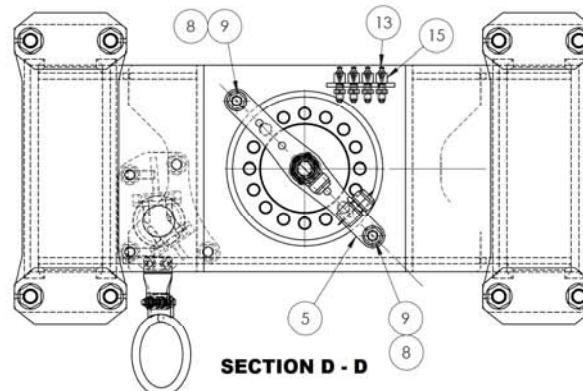
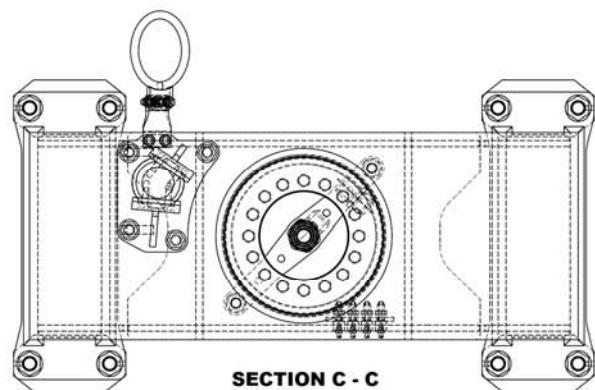


SECTION A - A



FITTING MALE 16 NPT  
X MALE 16 JIC  
STRAIGHT ATTACH  
AT AIR TANK  
(NOT SHOWN)

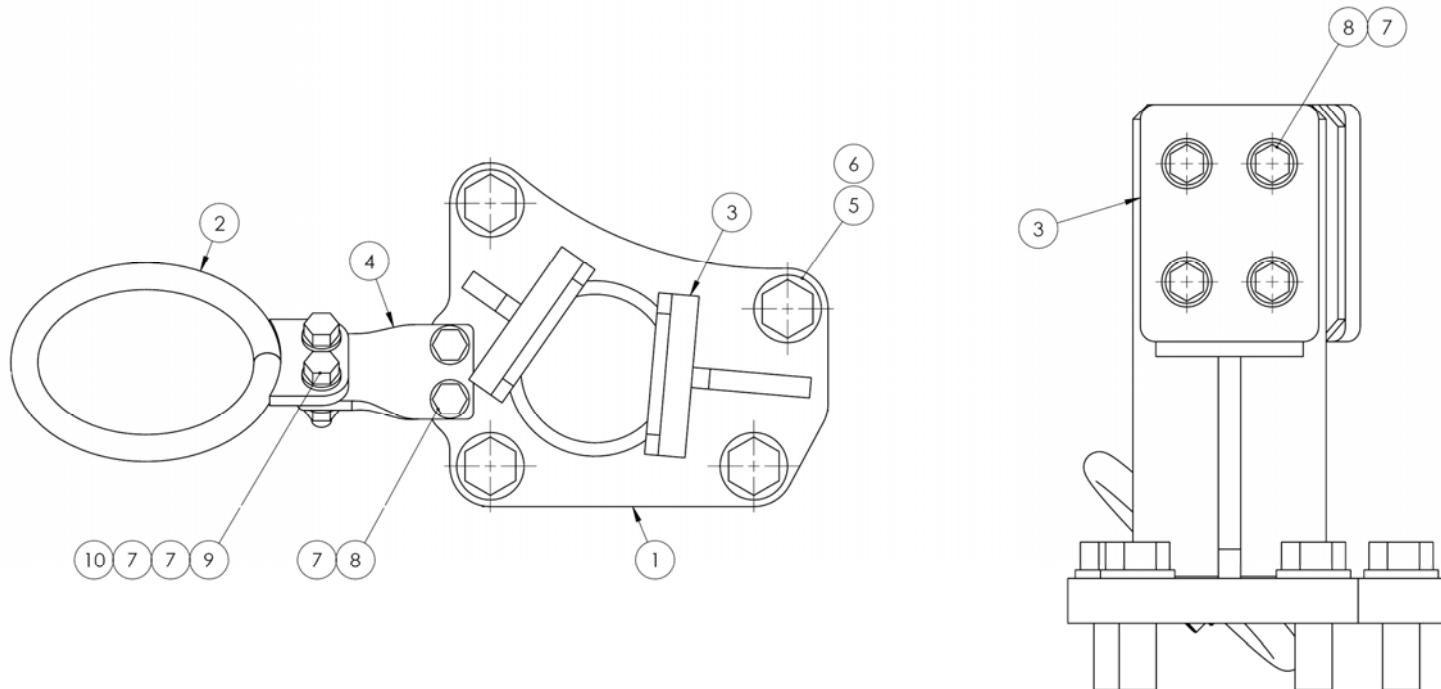
SECTION B - B



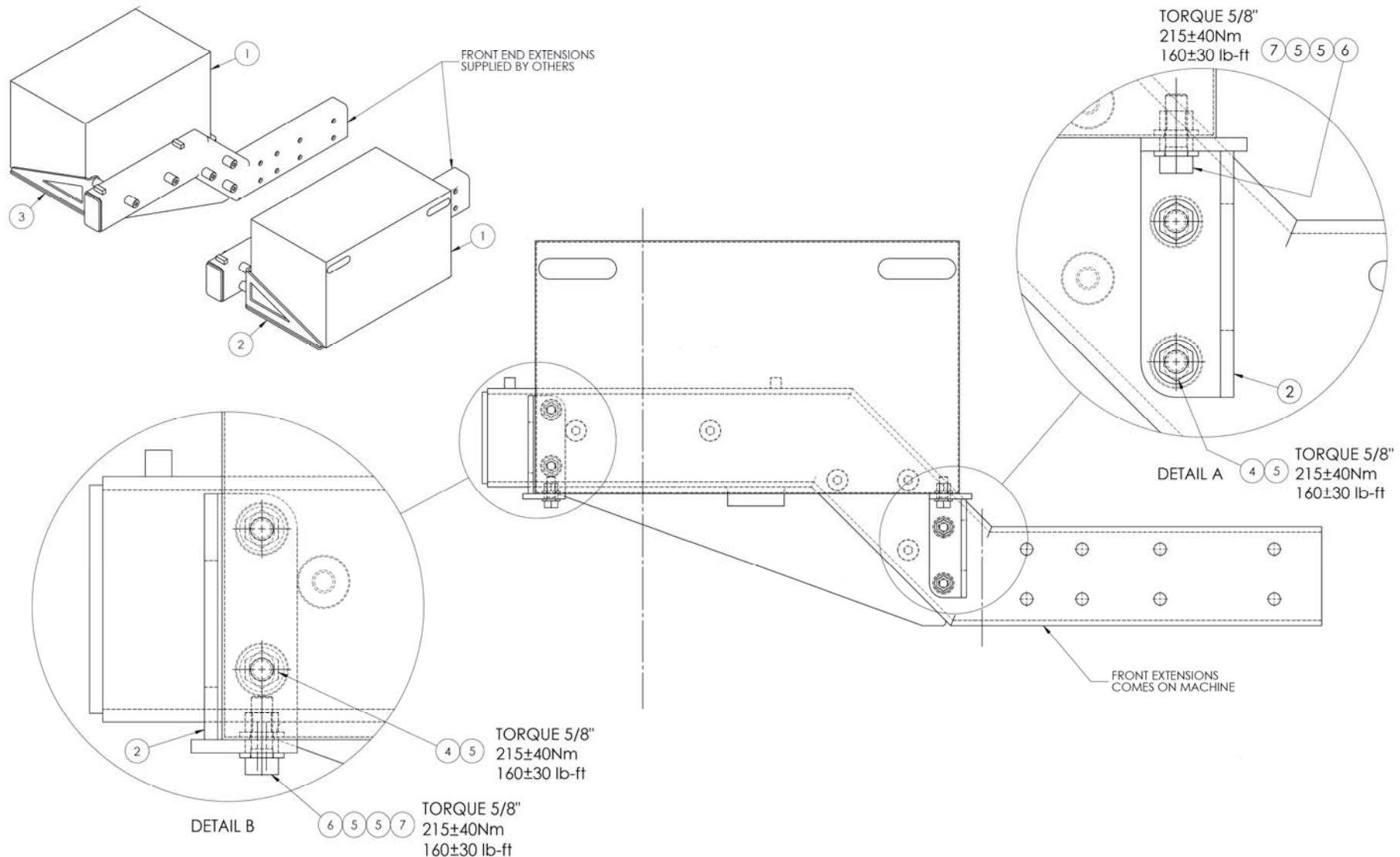
TORQUE 5/8"  
215+40 Nm  
160+30 Lb-ft  
APPLY LOCTITE 242 (BLUE)

TORQUE 7/8"  
620+80 Nm  
460 + 60 Lb-ft  
APPLY LOCTITE 242 (BLUE)

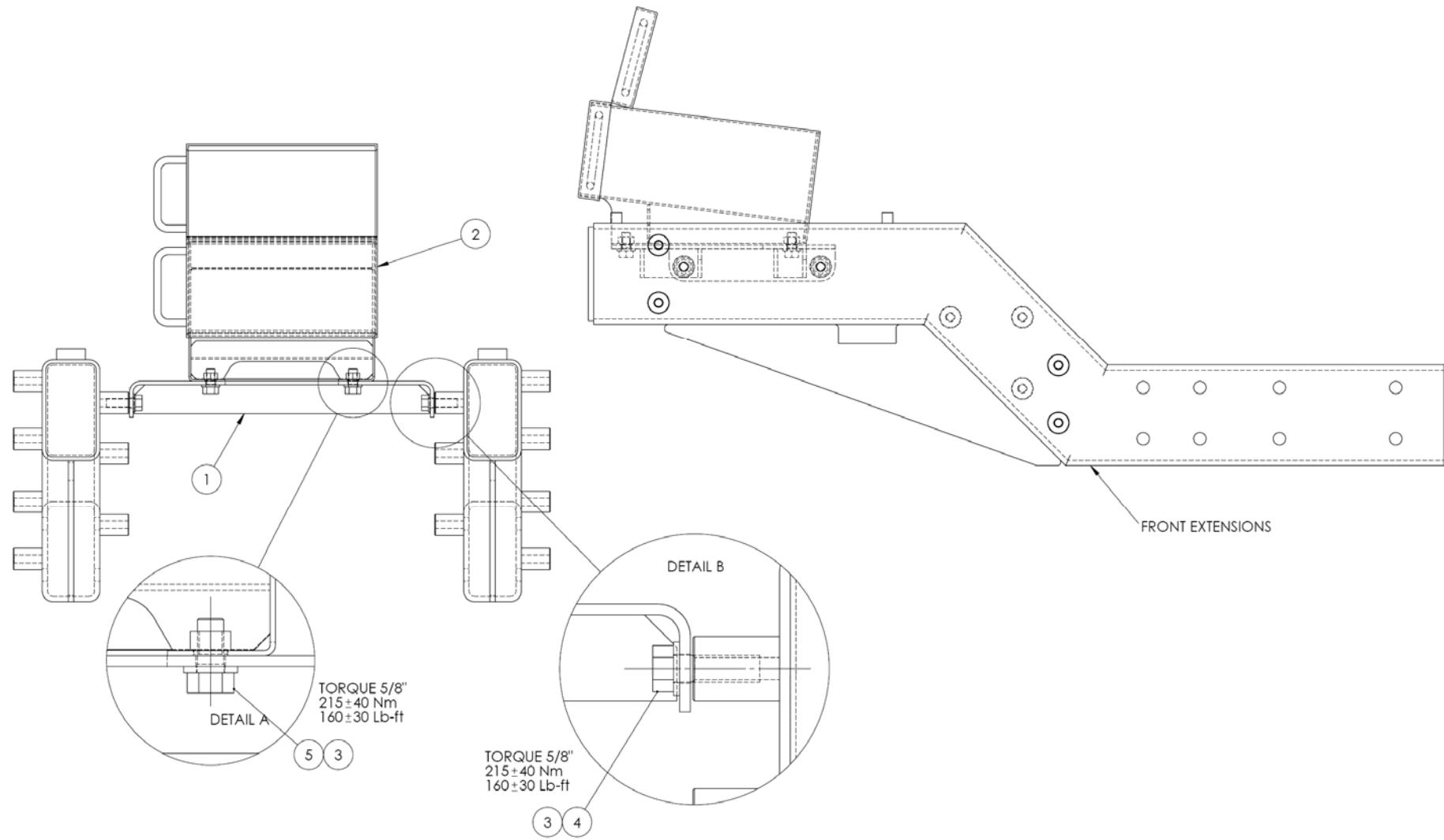
GP - BASE T8 SLEW CANOPY				037-20-143
ITEM	QTY	PART NO	DESCRIPTION	
1	1	037-20-208	AS - BASE T8 SLEW CANOPY	
2	8	037-20-149	HDW - THD ROD 7/8-9 UNCx12 LG	
3	4	037-20-150	PLT - BASE - CLAMP BAR	
4	1	037-20-175	AS - ROTATE STOP - STOP BAR	
5	1	037-20-187	PLT - ROTARY UNION MOUNT	
6	16	CAT# 8C-6913	HDW - WASHER 7/8"	
7	16	CAT# 6K-0545	HDW - NUT, SELF LOCK 7/8-9 UNC	
8	2	CAT# 8T-4122	HDW - WASHER 5/8	
9	2	CAT# 7X-0343	HDW - BOLT - 5/8-11 UNC X 1.25 HEX	
10	1	CAT# 2P-1285	FF - #16 JIC STR BULKHEAD	
11	1	CAT# 2P-1286	FF - #16 JIC BULKHEAD NUT	
12	1	CAT# 031-5744	FF - 90 EL SWIVEL (16 JIC FEMALE x 16 JIC MALE)	
13	4	CAT# 3B-8489	1/8 NPT GREASE FITTING	
14	1	PARK# PS1610306-16-16	FF - SWIVEL (16 JIC FEMALE X 16 JIC MALE)	
15	4	PARK# 4-WGTX-WLN-S	FF - #4 JIC FEMALE STR BULKHEAD C/W NUT	
16	1	CAT# 009-4440	FF - STR (16 JIC MALE x 16 NPTF MALE)	



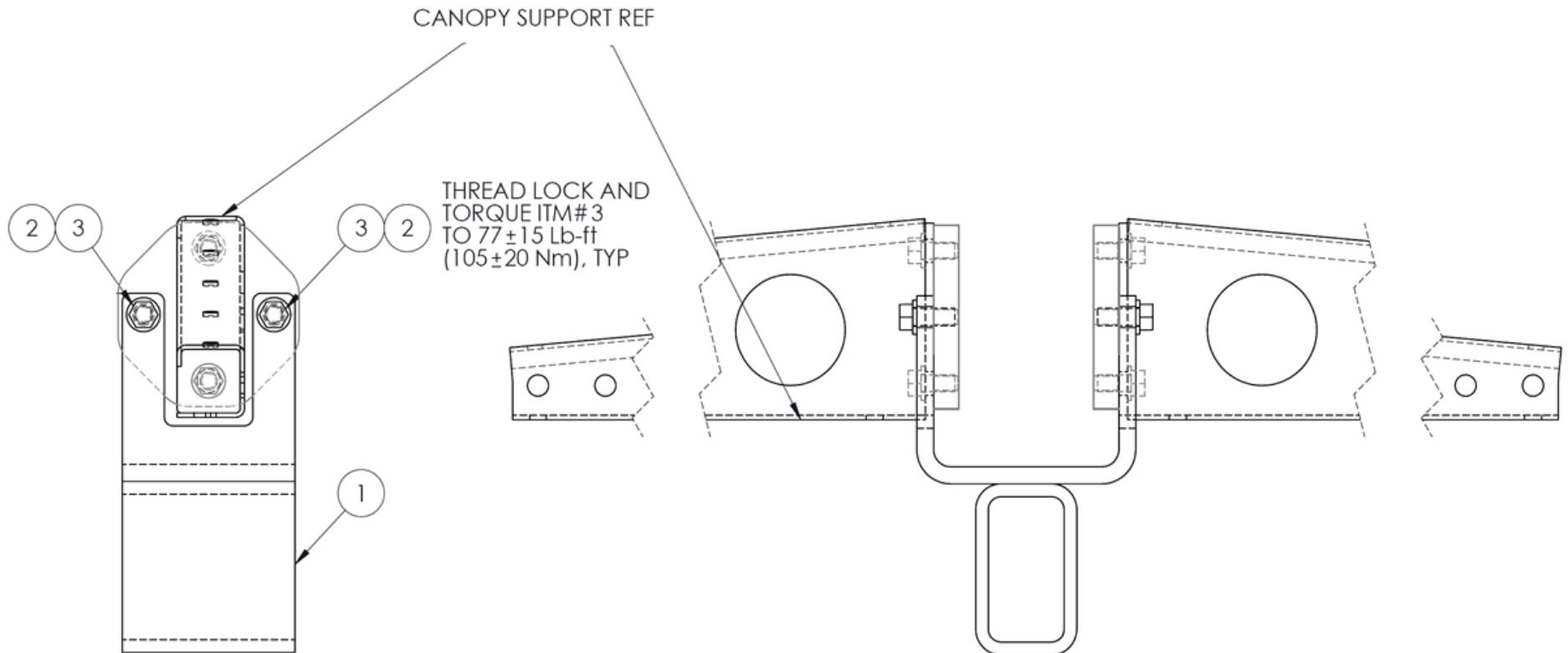
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-176	AS - ROTATE STOP - SHAFT FAB
2	1	037-20-181	AS - HOSE RUNG
3	2	037-20-184	AS - ROTATE STOP - BUMPER
4	1	037-20-192	PLT - 45 DEGREE TWIST BAR
5	4	CAT# 8T-4122	HDW - WASHER 5/8
6	4	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX
7	14	CAT# 8T-4896	WASHER - 3/8 IN - FLAT HARD
8	10	CAT# 4L-6454	HDW - BOLT 3/8 -16 X 1"
9	2	CAT# 9B-7237	HDW - BOLT-3/8-16UNCx1.25 HEX
10	2	CAT# 2K-4973	HDW - LOCK NUT 3/8"



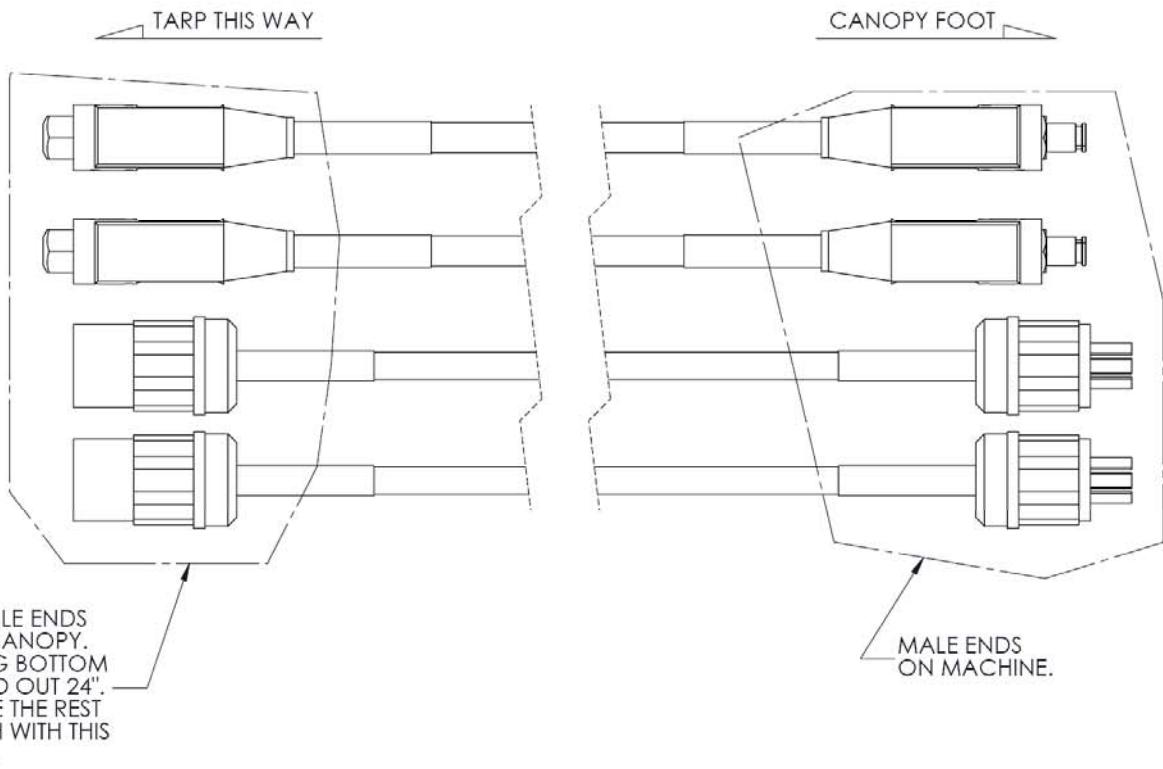
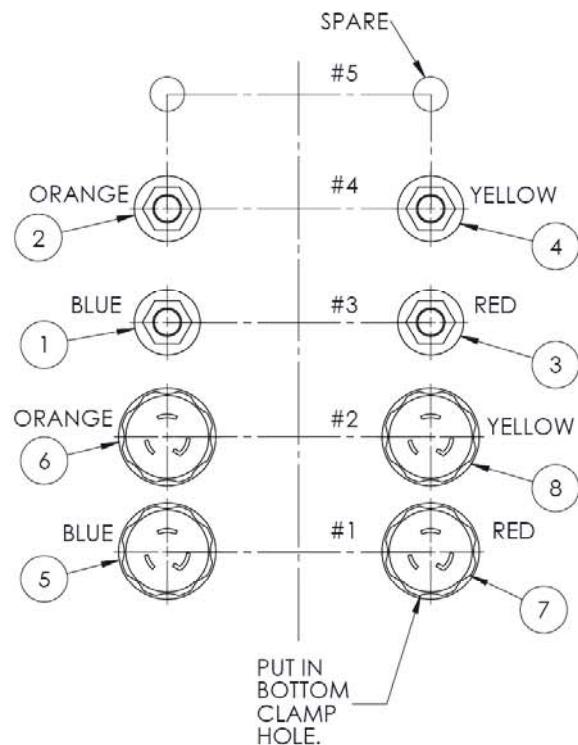
GP - TOOLBOX				037-35-074
ITEM	QTY	PART NO	DESCRIPTION	
1	2	037-35-075	AS - TOOLBOX 30 X 18 X 18	
2	2	037-35-076	AS - TOOLBOX BRKT FAB #1	
3	2	037-35-077	AS - TOOLBOX BRKT FAB #2	
4	8	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX	
5	24	CAT# 8T-4122	HDW - WASHER 5/8	
6	8	CAT# 7X-0345	BOLT - 5/8-11 X 1.75 UNC HEX	
7	8	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD	



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-35-082	AS - WELDING ROD BOX BRKT
2	1	037-35-086	AS - WELDING ROD BOX
3	8	CAT# 8T-4122	HDW - WASHER 5/8
4	4	CAT# 7X-0346	HDW - BOLT - 5/8-11 UNC X 2.0 HEX
5	4	CAT# 7X-0343	HDW - BOLT - 5/8-11 UNC X 1.25 HEX



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-168	AS - REST SLEWING CANOPY
2	4	CAT# 8T-4223	1/2", M12 WASHER FLAT, HARD, PLATED
3	4	CAT# 8T-8917	CAPSCREW-HEX HD-PLATED 1/2-13UNC X 1-1/4 LNG



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-40-067	ELEC - WELDING CABLE - BLUE - SLEWING CANOPY
2	1	037-40-068	ELEC - WELDING CABLE - ORANGE - SLEWING CANOPY
3	1	037-40-069	ELEC - WELDING CABLE - RED - SLEWING CANOPY
4	1	037-40-070	ELEC - WELDING CABLE - YELLOW - SLEWING CANOPY
5	1	037-40-073	ELEC - GRINDER CORD - "BLUE" MARKED
6	1	037-40-074	ELEC - GRINDER CORD - "ORANGE" MARKED
7	1	037-40-075	ELEC - GRINDER CORD - "RED" MARKED
8	1	037-40-076	ELEC - GRINDER CORD - "YELLOW" MARKED

037-42-057c

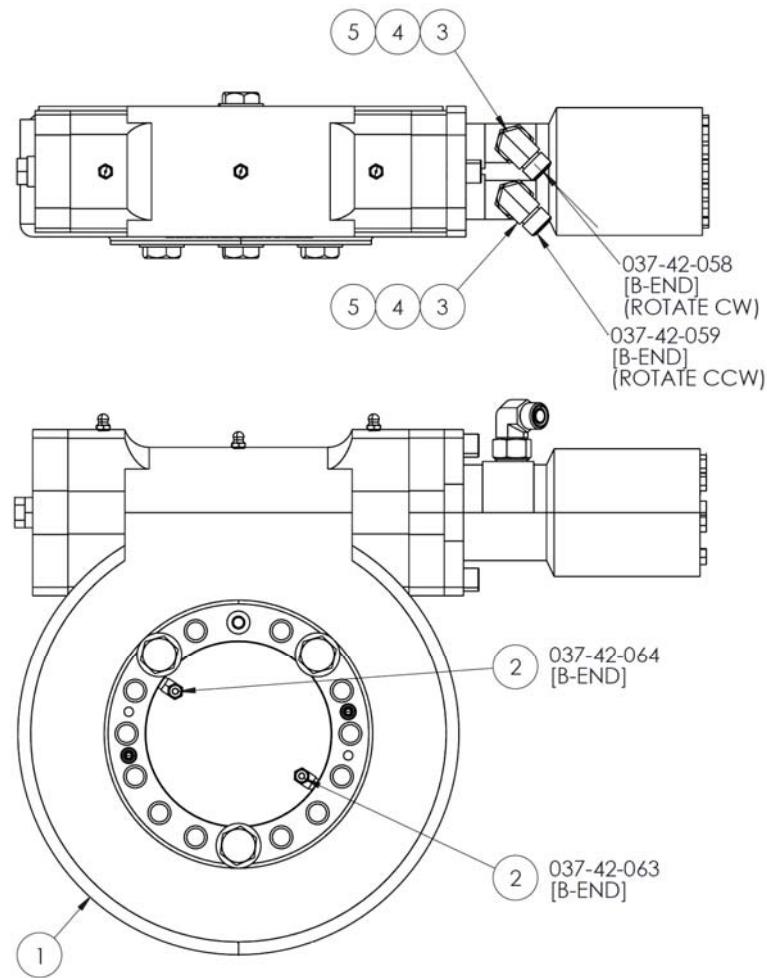
NOTE: ALL HOSE ASSEMBLIES TAGS AT BOTH ENDS

REV A CAT # HOSE ASSEMBLIES

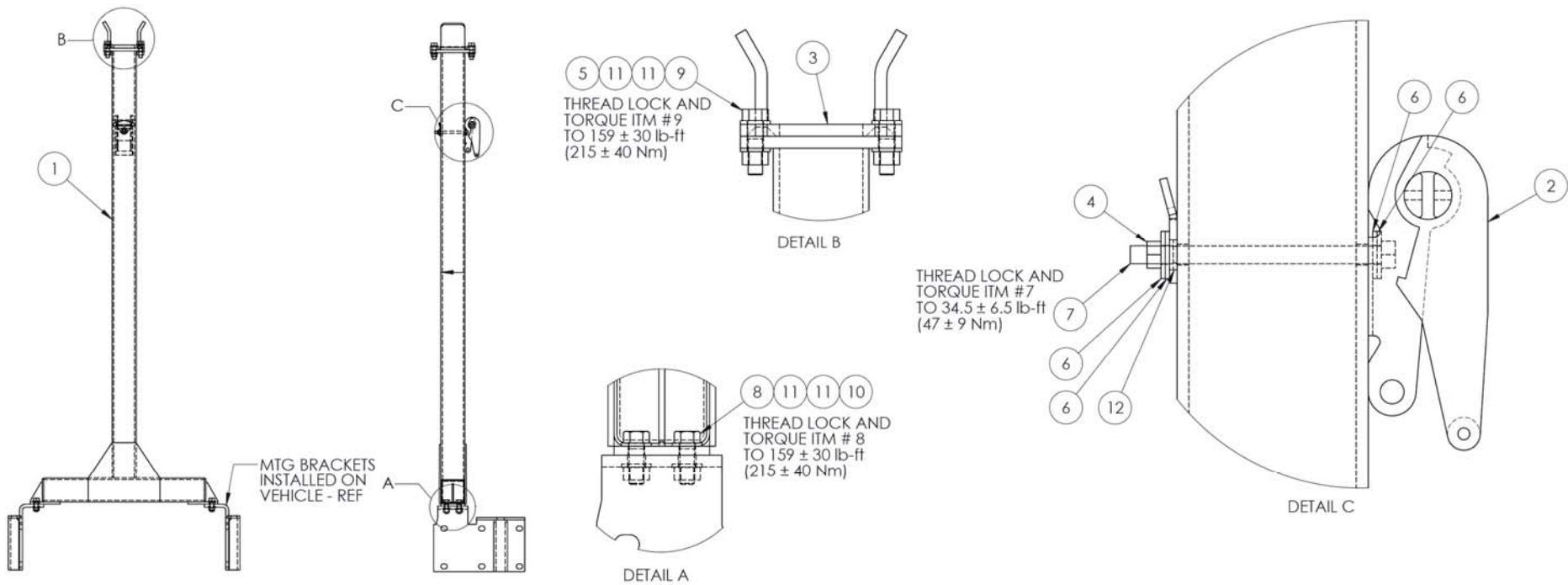
HOSE-GP	CAT NUMBERS						
	A HOSE END		B HOSE END		HOSE		ASSEMBLED O.A.L
HOSE NUMBER	FITTING	SIZE	FITTING	SIZE	TYPE	SIZE	
037-42-058	124-1961	-8	124-2117	-8	122-6890	-8	53
037-42-059	124-1961	-8	124-2117	-8	122-6890	-8	53
037-42-060	124-1961	-8	124-2117	-8	122-6890	-8	105.25
037-42-061	124-1961	-8	124-2117	-8	122-6890	-8	105.25
037-42-062	124-1961	-8	124-2117	-8	122-6890	-8	105.25
037-42-063	124-1950	-4	124-1950	-4	122-6887	-4	20.25
037-42-064	124-1950	-4	124-1950	-4	122-6887	-4	20.25
037-42-065	NONE	-16	NONE	-16	NONE	-16	222
037-42-066	124-1973	-16	124-1987	-16	122-6892	-16	62.75
037-42-067	NONE	-16	NONE	-16	NONE	-16	36
037-42-071	124-1950	-4	124-1950	-4	122-6887	-4	119
037-42-072	124-1950	-4	124-1950	-4	122-6887	-4	90

**037-42-057C****NOTE: ALL HOSE ASSEMBLIES TAGS AT BOTH ENDS****REV A PARKER # HOSE ASSEMBLIES (2)**

HOSE NO.	OVERALL LENGTH (INCHES)	PARKER AS #
037-42-058	53	F471TC-06JC-8-8-8-53
037-42-059	53	F471TC-06JC-8-8-8-53
037-42-060	105.25	F471TC-06JC-8-8-8-105.25
037-42-061	105.25	F471TC-06JC-8-8-8-105.25
037-42-062	105.25	F471TC-06JC-8-8-8-105.25
037-42-063	20.25	F482TC-0606-4-4-4-20.25
037-42-064	20.25	F482TC-0606-4-4-4-20.25
037-42-065	222	NONE
037-42-066	62.75	F451TC-0637-16-16-16-62.75
037-42-067	36	NONE
037-42-071	119	F482TC-0606-4-4-4-119.00
037-42-072	90	F482TC-0606-4-4-4-90.00



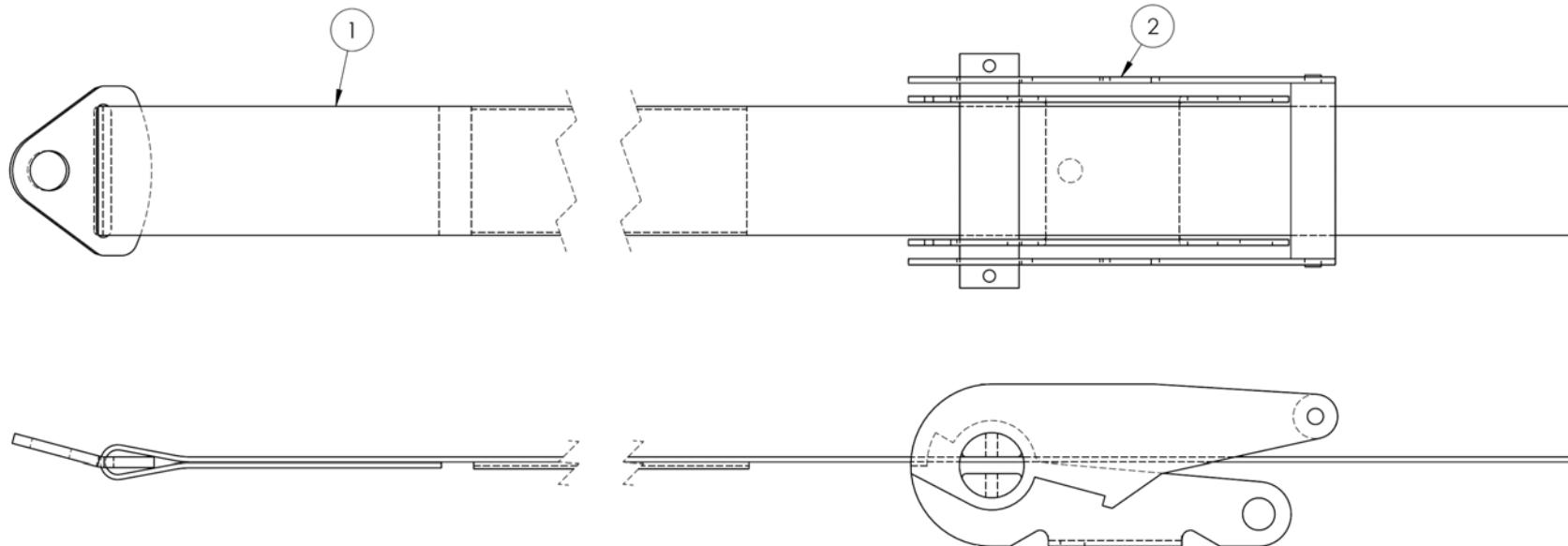
ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-152	FC - HYD SLEW DRIVE
2	2	CAT# 2N-1287	FF - #4 JIC M X 1/8-27 NPTF M - 90 DEG
3	2	CAT# 6V-8721	90° EL - ORFS M / STOR BOSS -8/-10
4	2	CAT# 2M-9780	O-RING STOR-10
5	2	CAT# 6V-8398	O-RING ORFS -8



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-160	AS-STOWING ARM SLEWING CANOPY
2	1	037-20-195	GP - SLEW CANOPY HOLD DOWN STRAP
3	1	037-20-202	HDWM - SLEW CANOPY REST PAD
4	1	CAT# 2K-4973	HDW - LOCK NUT 3/8"
5	4	CAT# 3K-2889	HDW - LOCKNUT - 5/8-11 THD
6	4	CAT# 4B-5271	HDW - USS WASHER 3/8"
7	1	CAT# 7X-0295	HDW - BOLT-3/8-16 UNCX5.25 HEX
8	4	CAT# 7X-0345	BOLT - 5/8-11 X 1.75 UNC HEX
9	4	CAT# 7X-0347	HDW - BOLT - 5/8-11 UNC X 2.25 HEX
10	4	CAT# 7X-0448	HDW - NUT 5/8-11 ZINC PLATED HARDENED
11	16	CAT# 8T-4122	HDW - WASHER 5/8
12	1	CAT# 8T-4224	HDW - WASHER M8

**GP - SLEW CANOPY HOLD DOWN STRAP**

037-20-195



ITEM	QTY	PART NO	DESCRIPTION
1	1	037-20-193	HDWM - SLEW CANOPY HOLD DOWN STRAP
2	1	037-20-196	HDWM - 2" RATCHET NARROW HANDLE

:

<b>APPENDIX A - WELDER SERVICE MANUALS RESOURCE</b>	<b>WELDERS</b>
Welding Power Unit Parts Breakdown available at Original Equipment Manufacture websites.  Refer to:  <u><a href="http://www.fronius.com">www.fronius.com</a></u> <u><a href="http://www.lincolnelectric.com">www.lincolnelectric.com</a></u> <u><a href="http://www.millerwelds.com">www.millerwelds.com</a></u>	

Customized Parts Catalog for Engine Model QSB6.7 CM850



**Customized Parts Catalog for Engine Model**

**QSB6.7 CM850**  
GENERATOR SET

Prepared Specifically for:

**VANGUARD EQUIPMENT INC.**  
**15627 E. PINE ST.**  
**TULSA, OK 74126**

Engine Serial Number: **73172617**

# **Cummins Engine Co., Inc.**

## **New Parts Warranty**

### **Midrange**

#### **Coverage**

#### **Products Warranted**

This Warranty applies to new Parts sold by Cummins when used on or with its A, B/B Gas Plus/B Gas International/B LPG Plus/ISB5.9 G/ISB/QSB, C/C Gas Plus/ISC/QSC, ISF, L Gas Plus/ISL/ISL G/QSL Series Engines which are purchased by the first user on or after January 1, 2003. It applies anywhere in the world where Cummins approved service is available through a Cummins distributor.

#### **Coverage**

This Warranty covers any failures of the Parts, under normal use and service, which result from defects in material or factory workmanship (Warrantable Failures). The Coverage is for six months or the specified maintenance interval, whichever occurs first, after the date of first installation.

**This Warranty is made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.**

#### **Cummins Responsibilities**

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from the Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

#### **Owner Responsibilities**

At the time when the parts are installed, Owner is responsible for the preparation of a written record containing the following: (1) the date of installation of the parts; (2) the Engine serial number; (3) the Engine miles, hours or kilometers of operation; (4) the parts installed; and (5) the location of the parts in the Engine. The purpose of this record is to protect Owner's interests and support any claim for a Warrantable Failure.

Owner is responsible for the operation and maintenance of the Engine as specified in Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Owner must also deliver the Engine to the repair facility. Locations in the United States and Canada are listed in the United States and Canada Sales and Service Directory; other locations are listed in the Cummins International Sales and Service Directory.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items provided during Warranty repairs unless such items are not reusable due to a Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred by Owner as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

# **Cummins Engine Co., Inc.**

## **New Parts Warranty**

### **Midrange**

#### **Limitations**

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including but not limited to: operation without adequate coolant or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or air intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine. Cummins is also not responsible for failures caused by incorrect fuel, or by water, dirt or other contaminants in the fuel.

Except for fuel pumps, Cummins does not warrant parts supplied by Cummins which bear the name of another company. This category of parts includes, but is not limited to: hydraulic pumps, alternators, starters, fans, air conditioning compressors, clutches, filters, power steering pumps, transmissions, torque converters, marine gears, air cleaners and non-Cummins air compressors and Engine compression brakes.

Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

This Warranty does not apply to parts furnished by Cummins at no charge to the Owner.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

**CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.**

**CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE.**

**THIS WARRANTY IS THE SOLE WARRANTY MADE BY CUMMINS IN REGARD TO THESE PARTS.  
CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR  
FITNESS FOR A PARTICULAR PURPOSE.**

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or from province to province.

## **Customer Service Information**

This Customized Parts Catalog contains part information for the following Cummins engine:

### **Engine Data**

Model Number	QSB6.7 CM850
Serial Number	73172617
Fuel Pump Part Number	5256608
Fuel Pump Calibration	NC08
Engine Configuration Number	D313007GD02
CPL Number	656
Build:	
Shop Order Number	SO26203
Plant	CONSOLIDATED DIESEL CO.
Date	09-DEC-2010

Certain basic engine components have been matched to give optimum performance to your engine. The part numbers listed in this catalog for these components are for a standard engine configuration. When ordering any of the Control Parts List (CPL) components listed below, please order by part description and engine serial number. Reference to the CPL number stamped on the engine data (name) plate will also help identify the proper service parts for your engine.

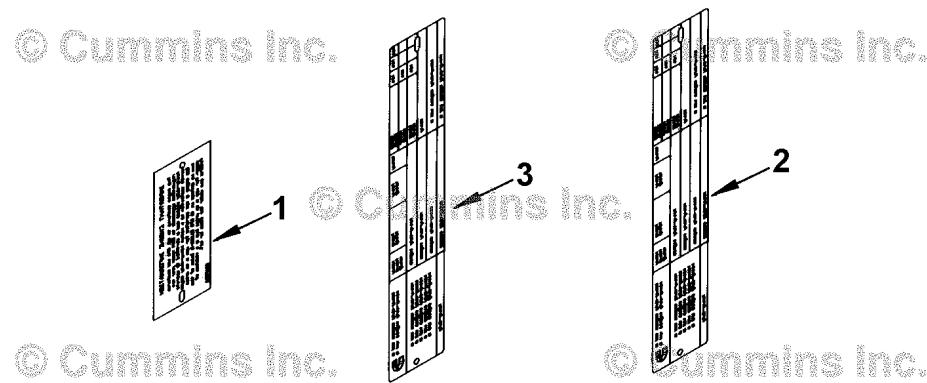
This catalog was compiled using the most current information as of 1-May-2012.

### **User Information**

- Part numbers appearing in ( ) are for identification purposes only and should not be used when ordering service replacement parts.
- Reference numbers appearing on art pages are for publication use only.
- Assembly content is shown by part number indentation.
- Options are engineered production part groupings, specifically used for compiling engine orders.
- Option numbers are for reference only and are not sold for service.
- Use assembly and not option content to determine service parts replacement.
- Always specify engine model and serial number when ordering parts from this catalog.
- Parts listed in this catalog may be superseded by improved parts with new part numbers. Service parts you receive may differ in part number from those ordered because of substitution with newer equivalent replacement parts.

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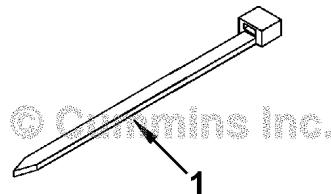


ap952gc

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Agency Approval</b>  <b>OPTION AP9602</b>		
1 2 3	4936633 4938680 4942866	Decal Dataplate Dataplate	1 1 1	<p>Agency Approval  Certified By : EPA,CARB,Eu application :  Generator cert level : Tier 3, tier 3, stiiia  special allowance : None cert agent : EPA,  CARB, vca comments : N/A  Fuel Type : Diesel manufacturer of record :  Cummins variant content: In place of pn  4942866, UK use pn 4938681 and pn  4936633  For engines with fuel pump to be mounted/  attached on the rear gear housing, dataplate  to be mounted and centered on valve cover  In the sunken flat section for qsb7-g engines.</p>

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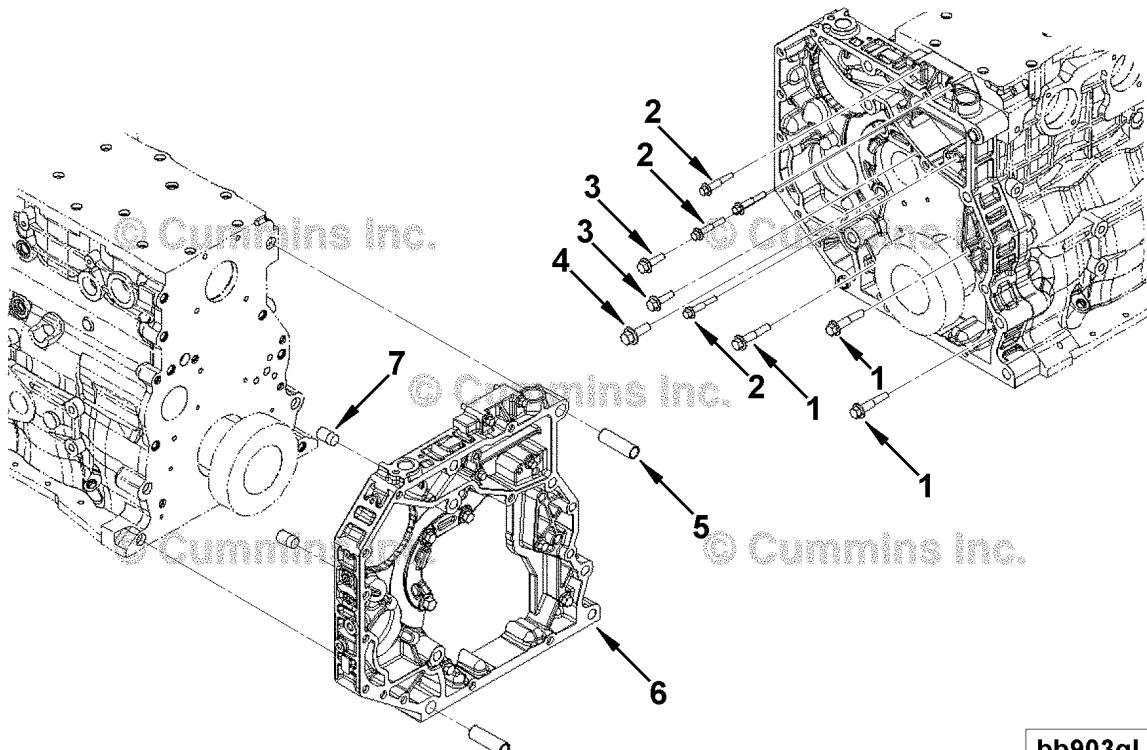


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ap951gj

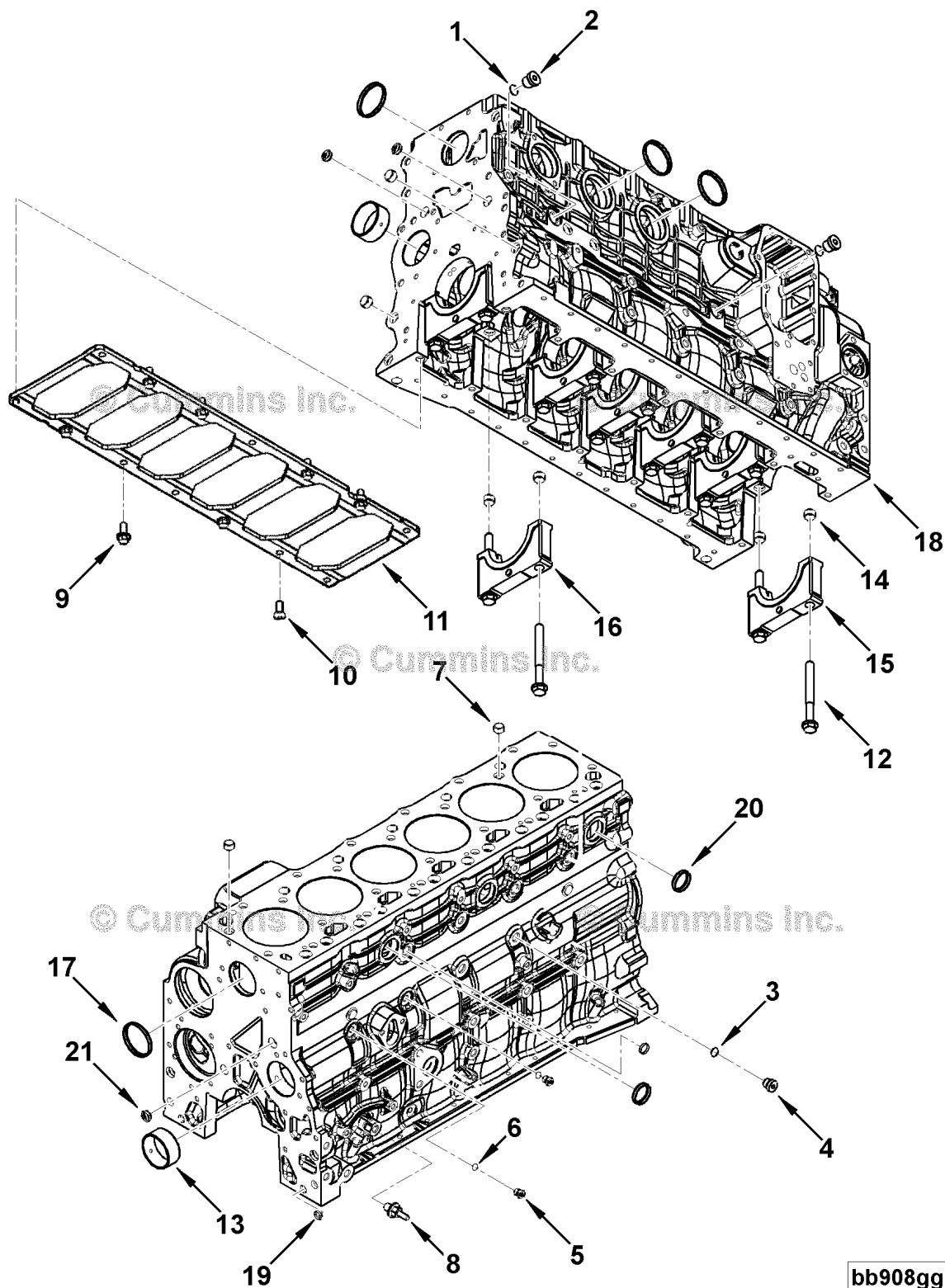
Ref No.	Part Number	Part Name	Req	Remarks
1	201351	Incorporation Documentation  OPTION AP9980  Clamp, Wire Tie	1	Incorporation Documentation Certification Agency: European Commission directive: 2006/42/EC Additional Information: A letter of conformity is supplied with the engine stating this product meets the declaration of incorporation in accordance with e.C. Machinery directive 2006/42/EC. This engine meets the requirements of the directives for machines which are to be incorporated into a final product.



bb903gl

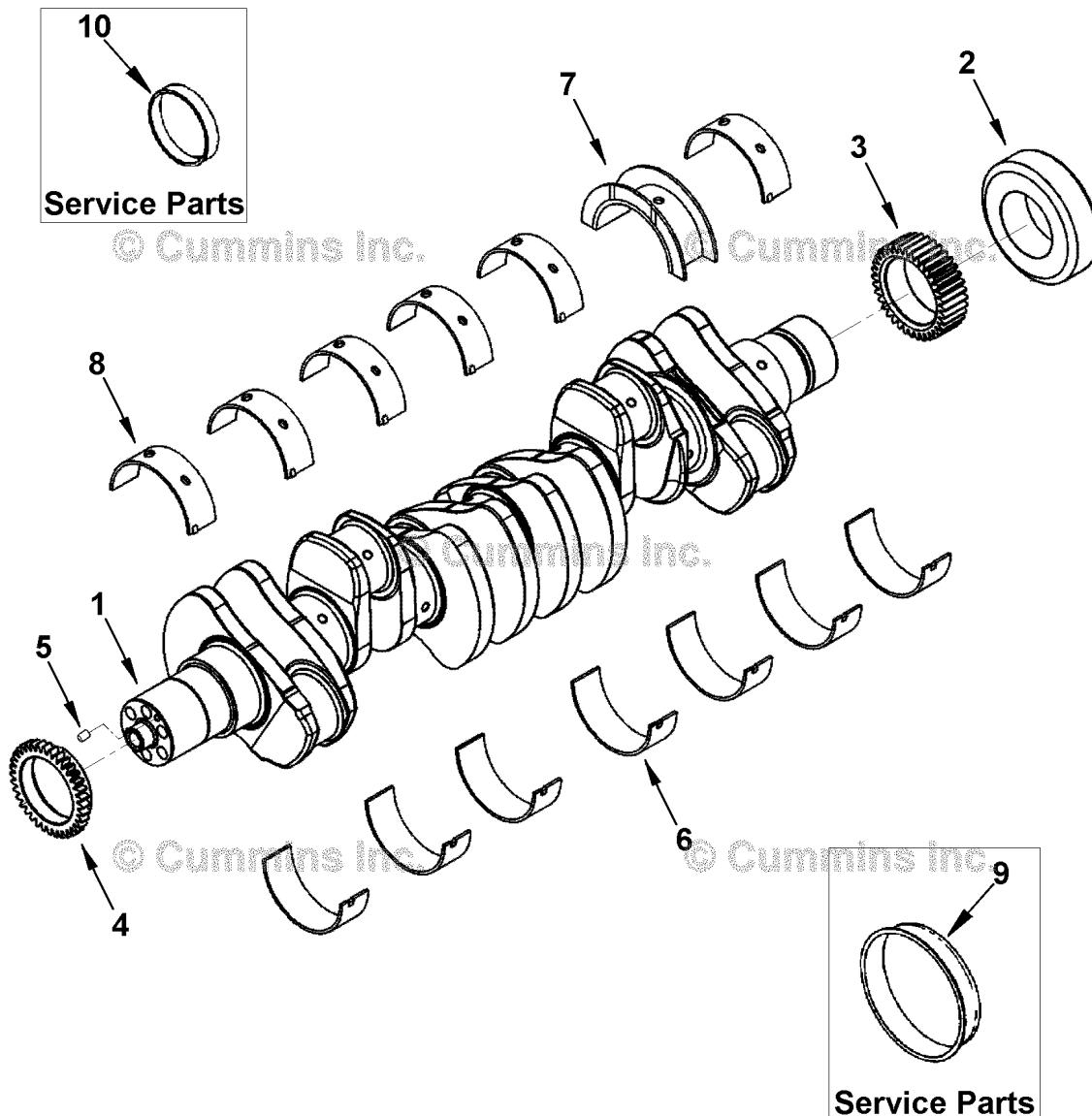
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Rear Gear Housing</b>  <b>OPTION BB9131</b> Screw, Hex Flange Head Cap Screw, Hex Flange Head Cap Screw, Hex Flange Head Cap Screw, Hex Flange Head Cap 4936423 Housing, Gear Dowel, Ring Housing, Gear Insert, Threaded	3 4 2 1 1 2 1 2	Rear Gear Housing M10 X 1.50 X 50 M8 X 1.25 X 45 M10 X 1.50 X 30 M12 X 1.75 X 30

## NOTES



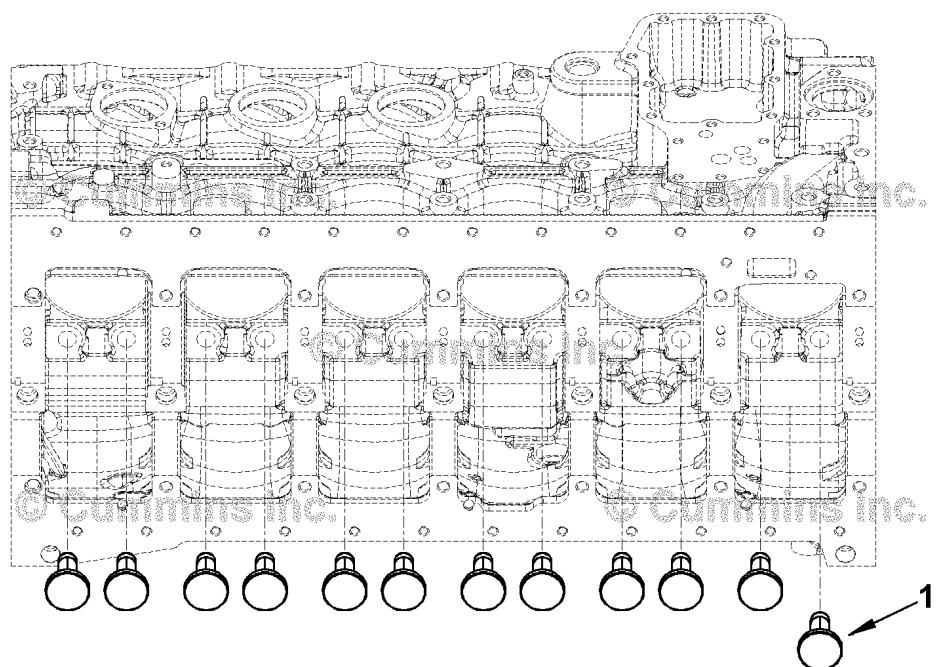
bb908gg

Ref No.	Part Number	Part Name	Req	Remarks
		Cylinder Block		
		OPTION BB9206		
				Cylinder Block Cylinders: 6 High Speed Balancer: No water pump location: Low Crank Gear Material: Steel Fuel Type: Diesel premium block: No tapped fittings: Storm structural block: No thrust face: 180 degrees main bearing type: Standard valves per cylinder: 4 rear gear train provision: Yes front gear train provision: No Front PTO Provision: Yes tappet diameter: 30mm block oil pan flange bolt pattern spacing: 60mm block oil pan flange bolt pattern width: 299mm block oil pan flange bolt pattern quantity: 24 components included in oil pan flange bolt pattern block: Yes rear gear housing: Yes oil pump: No front gear cover: Yes cast rear drive provision: No Additional Rear Structural Member: No
1	3678873	Plug, Threaded	2	
1	3678786	Seal, O Ring	1	
2	(3678791)	Plug, Threaded	1	
	3678921	Plug, Threaded	1	
3	3678912	Seal, O Ring	1	M14
4	(3678922)	Plug, Threaded	1	Purchase 3678921
	3678923	Plug, Threaded	1	M10 X 1 X 13.5
5	(3678924)	Plug, Threaded	1	Purchase 3678923
6	3678925	Seal, O Ring	1	M10
7	3902343	Dowel, Ring	2	
8	3936352	Screw, Hex Flange Head Cap	2	
9	3902460	Screw, Hex Flange Head Cap	10	M10 X 1.50 X 25
10	3949830	Screw, Round Head Cap	1	
11	3965764 (4991099)	Stiffener, Cylinder Block	1	
12	3927948	Block, Cylinder	1	Serviced as 4955412
13	4983253	Screw, Hex Flange Head Cap	14	
	3974157	Bushing	2	
14	3900068	Cap, Main Bearing	6	
15	(3974156)	Dowel, Ring	2	
	3974159	Cap, Main Bearing	1	
14	3900068	Cap, Main Bearing	1	
16	(3974158)	Dowel, Ring	2	
17	4938189	Cap, Main Bearing	1	
18	(4990447)	Plug, Expansion	4	
19	3900956	Block, Cylinder	1	
20	3905401	Plug, Expansion	2	
21	3914035	Plug, Expansion	3	



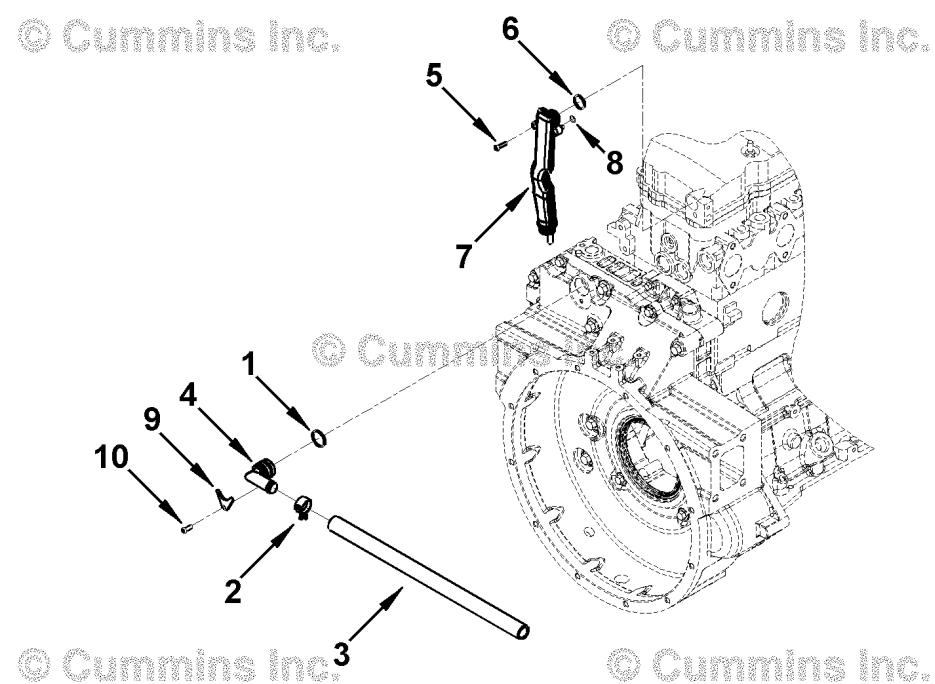
bb904ge

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Crankshaft and Bearings</b>		
		<b>OPTION BB9206</b>		
1	4934861	Crankshaft, Engine	1	Crankshaft and Bearings
	4934862	Crankshaft, Engine	1	
1	(3968164)	Crankshaft, Engine	1	
2	(2831066)	Collar, Shaft	1	
3	4934418	Gear, Crankshaft	1	
4	(4934419)	Gear, Crankshaft	1	
5	3955030	Dowel, Pin	1	
	3357480	PDC Kit	A/R	Standard
6	3929021	Bearing, Main	7	Standard
7	3927772	Bearing, Crankshaft Thrust	1	Standard
8	3929016	Bearing, Main	6	Standard
	3802071	Set, Main Brg(.010)	A/R	0.25 mm Oversize
6	3929022	Bearing, Main	7	0.25 mm Oversize
7	3283065	Bearing, Crankshaft Thrust	1	0.25 mm Oversize
8	3929017	Bearing, Main	6	0.25 mm Oversize
	3802072	Set, Main Brg(.020)	A/R	0.50 mm Oversize
6	3929023	Bearing, Main	7	0.50 mm Oversize
7	3283066	Bearing, Crankshaft Thrust	1	
8	3929018	Bearing, Main	6	0.50 mm Oversize
	3802073	Set, Main Brg(.030)	A/R	0.75 mm Oversize
6	3929024	Bearing, Main	7	0.75 mm Oversize
7	3283067	Bearing, Crankshaft Thrust	1	0.75 mm Oversize
8	3929019	Bearing, Main	6	0.75 mm Oversize
	3802074	Set, Main Brg(.040)	A/R	1.00 mm Oversize
6	3929024	Bearing, Main	7	0.75 mm Oversize
7	3283068	Bearing, Crankshaft Thrust	1	1.00 mm Oversize
8	3929019	Bearing, Main	6	0.75 mm Oversize
	3802702	Bearing, Crankshaft Thrust	A/R	0.50 mm Oversize
6	3929023	Bearing, Main	1	0.50 mm Oversize
7	3283066	Bearing, Crankshaft Thrust	1	
	3802704	Bearing, Crankshaft Thrust	A/R	1.00 mm Oversize
6	3929025	Bearing, Main	1	1.00 mm Oversize
7	3283068	Bearing, Crankshaft Thrust	1	1.00 mm Oversize
		<b>Service Parts</b>		
9	3926126	Rear Seal, Wear Sleeve Kit		Rear
10	3802820	Front Seal, Wearsleeve Kit		Front

**bb902zk**

Ref No.	Part Number	Part Name	Req	Remarks
1	3947759	<b>Valve Tappets</b>  <b>OPTION BB9206</b> Tappet, Valve	12	Valve Tappets

## NOTES



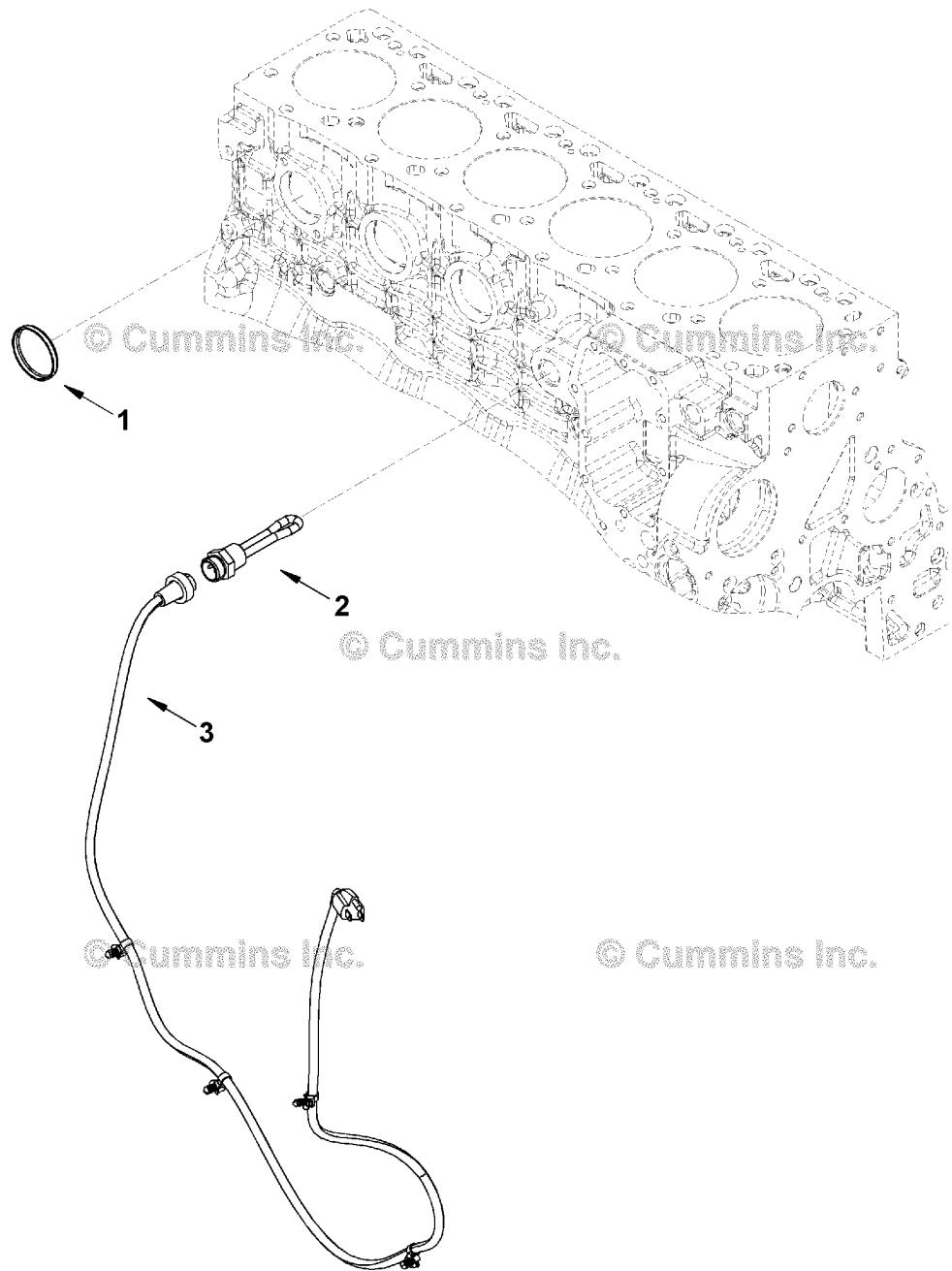
br953go

Group No. 03.02

**Crankcase Breather**

Option No. BR9191

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Crankcase Breather</b>		
		<b>OPTION BR9191</b>		
				Crankcase Breather Structure Code: Mr03 EBM System Type: Non ccv Location: Flywheel Housing Vent Size: 19.05 Outlet can be Rotated to Suit OEM Around Horizontal Axis Factory set at 8 o' Clock to Following: Vent Location From Centerline Of Crank (mm): 256 Vent Location From C/L of Engine (mm): 180.7 Hose Length Below Pan Rail: N/A Engine Angularity Limit: 32 Deg.
1	145530	Seal, O Ring	1	
2	3917995	Clamp, Spring Hose	1	
3	3918614	Hose, Plain	1	
4	3966164	Breather, Crankcase	1	
5	3977572	Screw, Round Head Cap	2	
	3971371	Tube, Breather	1	
6	145528	Seal, O Ring	2	
7	(3968786)	Tube, Breather	1	
8	3970042	Seal, O Ring	1	
9	4899498	Plate, Clamping	1	
10	4937420	Screw, Round Head Cap	1	



ch900zq

Group No. 10.02

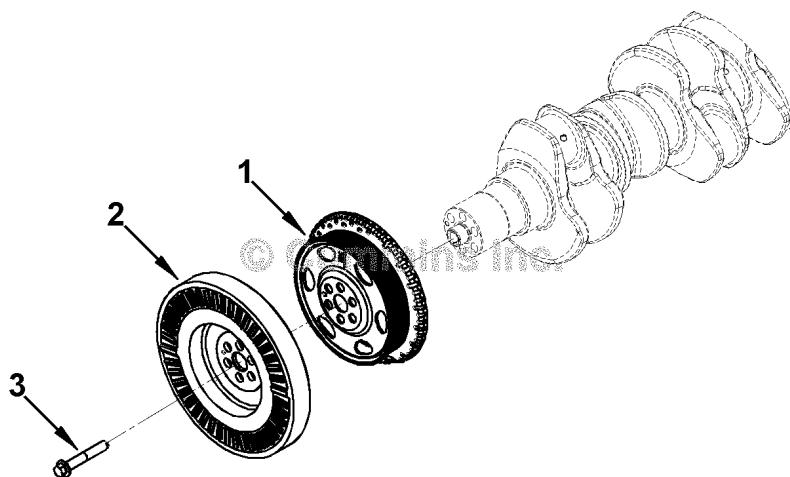
**AID,COO HEATER STARTING**

Option No. CH9081

Ref No.	Part Number	Part Name	Req	Remarks
1 2 3	4938189 3923050 4948145	AID,COO HEATER STARTING  OPTION CH9081  Plug, Expansion Cable, Engine Heater Heater, Engine	1 1 1	Mr - coo heater starting aid Voltage: 120 watt: 750 cord length: 72in. type: Water only male plug type: US plug type: 2 bolt operation type: Manual location from front face of block(mm): 254 supply method: Mounted cord provision: Yes Engine Family: "B" Series engine design phase: Echo.

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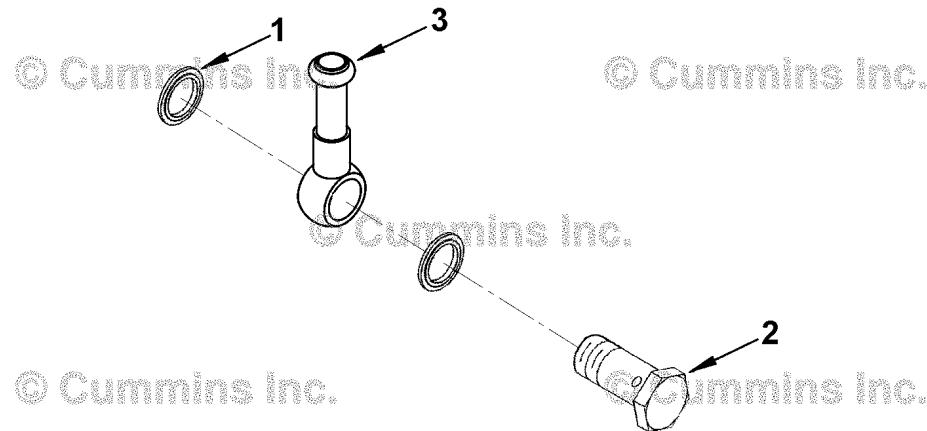
**da954ga**

Group No. 01.02.2

**Vibration Damper**

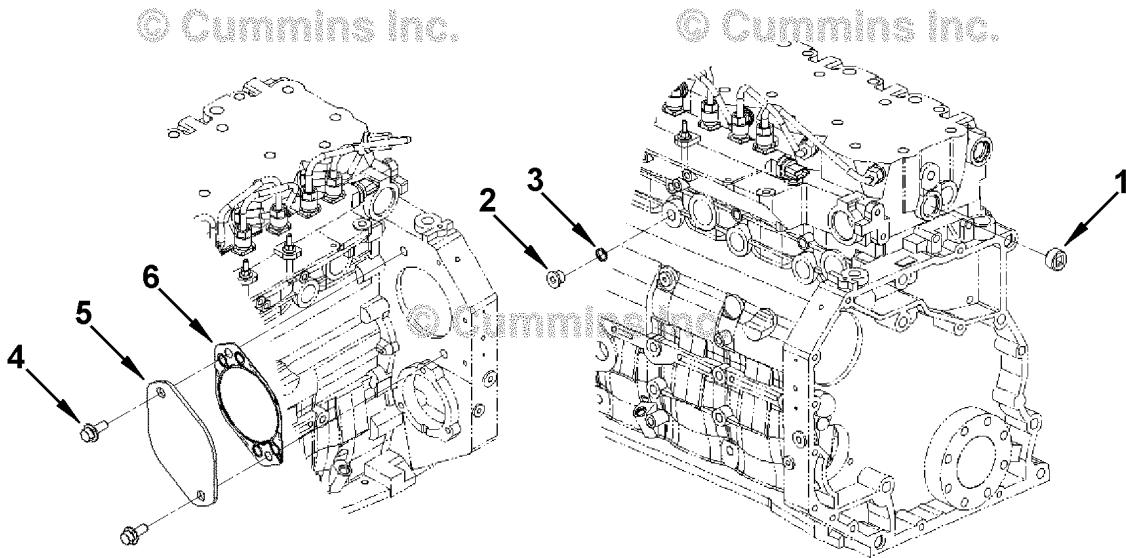
Option No. DA9342

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Vibration Damper</b>		
		<b>OPTION DA9342</b>		
				Vibration Damper Structure Code: 03 EBM Crank Pulley Type: Cast 8 Groove Crank Pulley Groove Profile: Poly Vee 8rib K Crank Pulley Diameter (mm): 174.75 over balls: 2.5 engine speed sensing: Yes Engine Position Sensing: Yes FFOB (mm) to CL of First Crank Pulley Groove: 51.78 Crank Bolt Circle (mm): 50 Natural Frequency (@ 40 degrees C): N/A Damper Type: Viscous damper diameter (mm): 250 Damper RPM Limitation: 300 PS@2500 PTO Provision: No customer mounting thread: N/A customer mounting bolt circle (mm): N/A customer mounting face from FFOB (mm): N/A Auxiliary drive pulley type: None auxiliary drive pulley diameter (mm): N/ A over balls (mm): N/A FFOB (mm) to CL of First auxiliary pulley groove: N/A Additional Info: Dcec may use vibration damper 4981136 in place of 4991131.
1	5255204	Pulley, Crankshaft	1	
2	4991131	Damper, Vibration	1	
3	3968075	Screw, Captive Washer Cap	6	



dl951gy

Ref No.	Part Number	Part Name	Req	Remarks
		<b>LOCATION,DRAIN</b>  <b>OPTION DL9224</b>		Mr - drain location cust interface: 10mm push on hose - single bead location from fob and centerline of crank(mm): X = 335.0 y = 373.0 z = -565.0 engine design phase: Echo Engine Cylinders: 6 Engine Family: "B" Series Unique Characteristics: 10mm push-on banjo fitting supplied in kit 8mm quick-disconnect fitting per SAE j2044 supplied with engine.

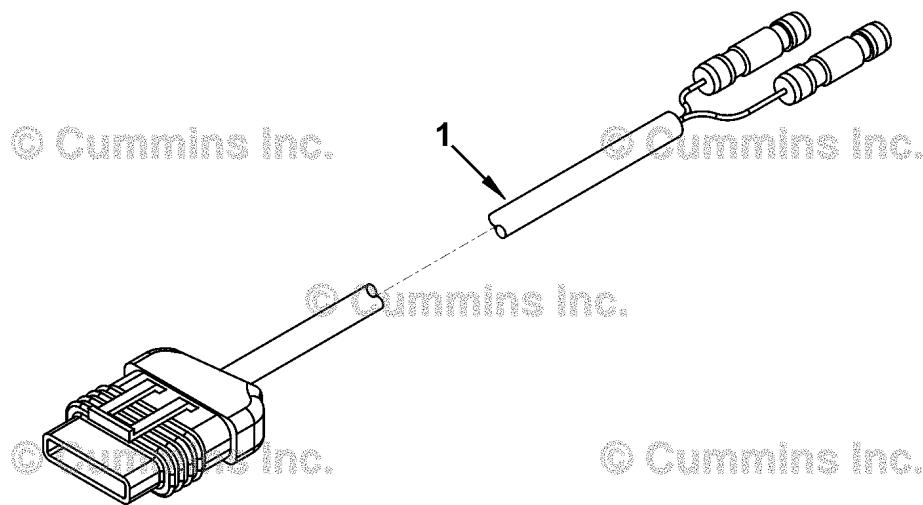


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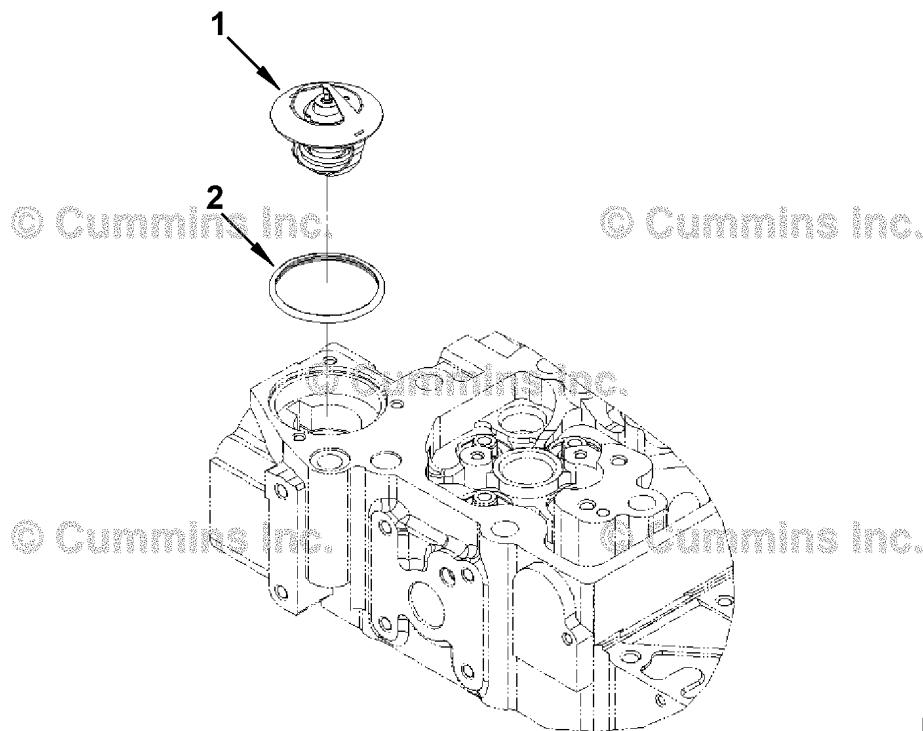
dr900gb

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Rear Gear TRA ACC Mounting</b>		
		<b>OPTION DR9701</b>		
1	4933532 3089567	Plug, Pipe Plug, Threaded	1 1	Rear Gear TRA ACC Mounting Structure Code: 03 EBM component length (mm): N/A
2	(3089568)	Plug, Threaded	1	Engine Families: "B" Series
3	3679139	Seal, O Ring	1	Rear Gear Drive PTO: Customer Supplied compressor or no compressor provision or no hydraulic pump drive adapter
4	3910495	Screw, Hex Flange Head Cap	2	Cover Plate Provided: Yes to suit gear housing pilot bore: 101.6mm
5	3914868	Plate, Cover	1	Includes plugs to plug compressor water provision
6	4896897	Gasket, Acc Drive Cover	1	DEP may use 3977854 threaded plug in place of 3089567 threaded plug.
				Purchase 3089567
				M12 X 1.75 X 30

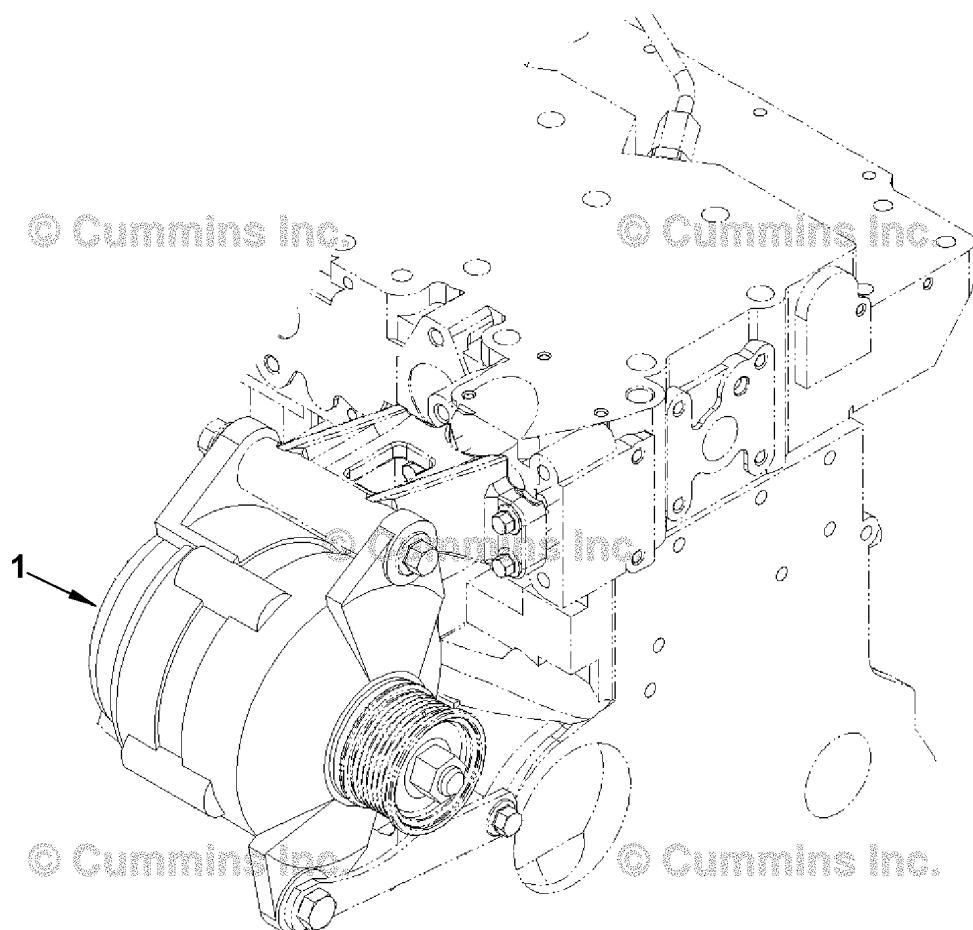


wr958gi

Ref No.	Part Number	Part Name	Req	Remarks
1	4920029	Electrical Accessories  OPTION EA9126  Harness, Wiring	1	Electrical Accessories Item Supplied: Alternator Wiring Harness alternator make/model: Delco Remy 11 si/24si harness length (mm): 100 supply method: Kit.



Ref No.	Part Number	Part Name	Req	Remarks
		<b>Thermostat</b>  <b>OPTION EC9045</b>		
1	3974823 3973834	Thermostat	1	Thermostat Thermostat Opening Temperature: 83 C Number of Thermostats: 1 Thermostat Type: Non-Balanced or Poppet Vented Non-Vented: Vented With Jiggle-Pin By-Pass Type: Mechanical Plug Engine Family: "B" Series Required Housing Bore Diameter: 60.96 mm (2.4 in) Low Gain Thermostat: Yes Maximum Temperature Capability: 118.3 C (245 F) One Notch High Metal Weir D-Ring Seal. Material: Nitrile
2	3954829	Thermostat Thermostat Seal, Thermostat	1 1 1	

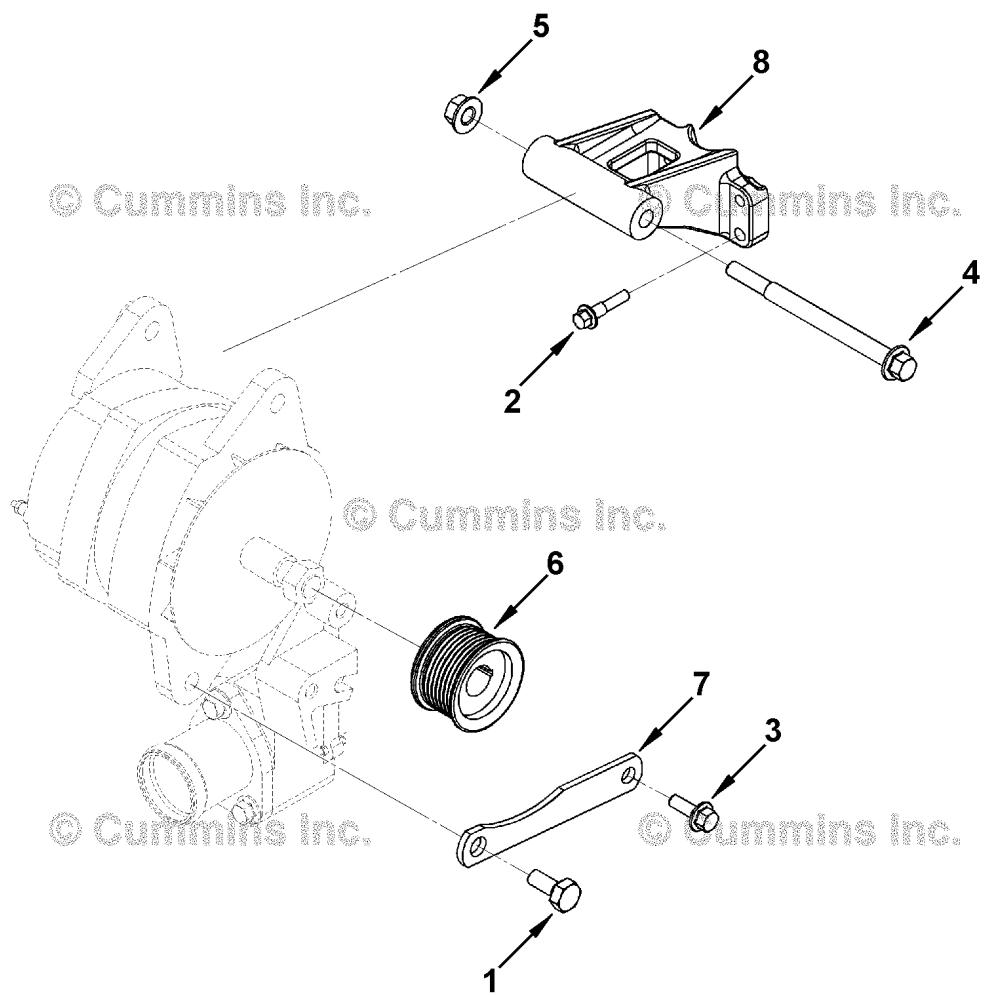
**ee900ze**

Group No. 13.02

**Alternator**

Option No. EE9247

Ref No.	Part Number	Part Name	Req	Remarks
1	4936879	Alternator  OPTION EE9247  Alternator	1	Alternator manufacturer/model: Delco 24si Voltage: 24 Amperage: 70 mounting type: Lugs, 101.1mm apart mounting to suit: 98.5mm spool alternator length (mm): 179.67 Cummins branded: Yes



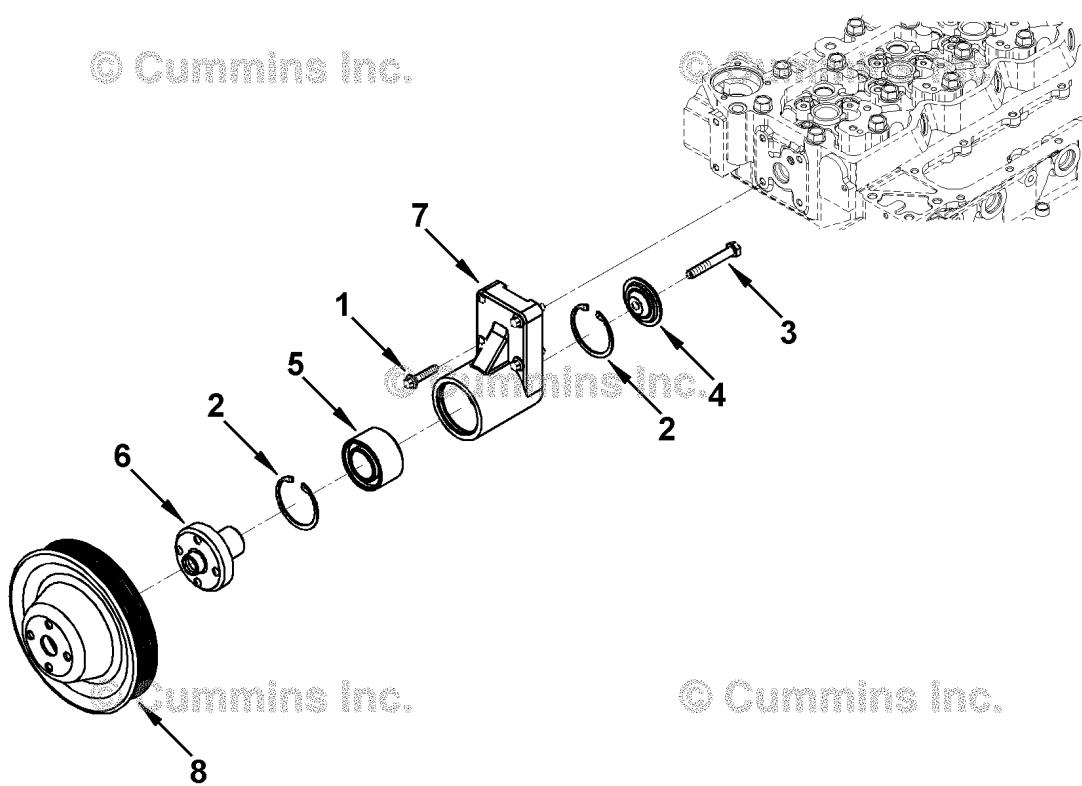
eh954zs

Group No. 13.02.3

**Alternator Mounting**

Option No. EH9469

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Alternator Mounting</b>  <b>OPTION EH9469</b>		<p>Alternator Mounting            Engine Family: "B" Series alternator mount            location: Cylinder head alternator center:            Pulley location horizontal from engine            centerline (mm): -287.99            Pulley location vertical from crank centerline            (mm): 339.15            Pulley Retainer Provided: No alternator            pulley provided: Yes alternator pulley            diameter over 2.5mm gage balls (mm): 61.13            mounting for alternator type: 4in. spool            Alternator Driven By Auxiliary Belt: No            alternator tail support required: No            Maximum Amperage At 14volt: 160            Maximum Amperage At 28volt: 80            Damper Pulley Effective Diameter (mm):            173.76            Unique Characteristics:            Alternator mounting screws provided            tensioner locating pin position 1: X = -227.0,            y = 195.0 accommodates alternator model:            Delco 22si 24si.</p>
1	3052061	Screw, Hexagon Head Cap	1	1/2 - 13 X 1 in
2	3900632	Screw, Hex Flange Head Cap	4	M8 X 1.25 X 35
3	3902460	Screw, Hex Flange Head Cap	1	M10 X 1.50 X 25
4	3903105	Screw, Hex Flange Head Cap	1	M12 X 1.75 X 150
5	3903210	Nut, Hexagon Flange	1	M12 X 1.75
6	3925852	Pulley, Alternator	1	
7	3942821	Brace, Alternator	1	
8	4931017	Support, Alternator	1	



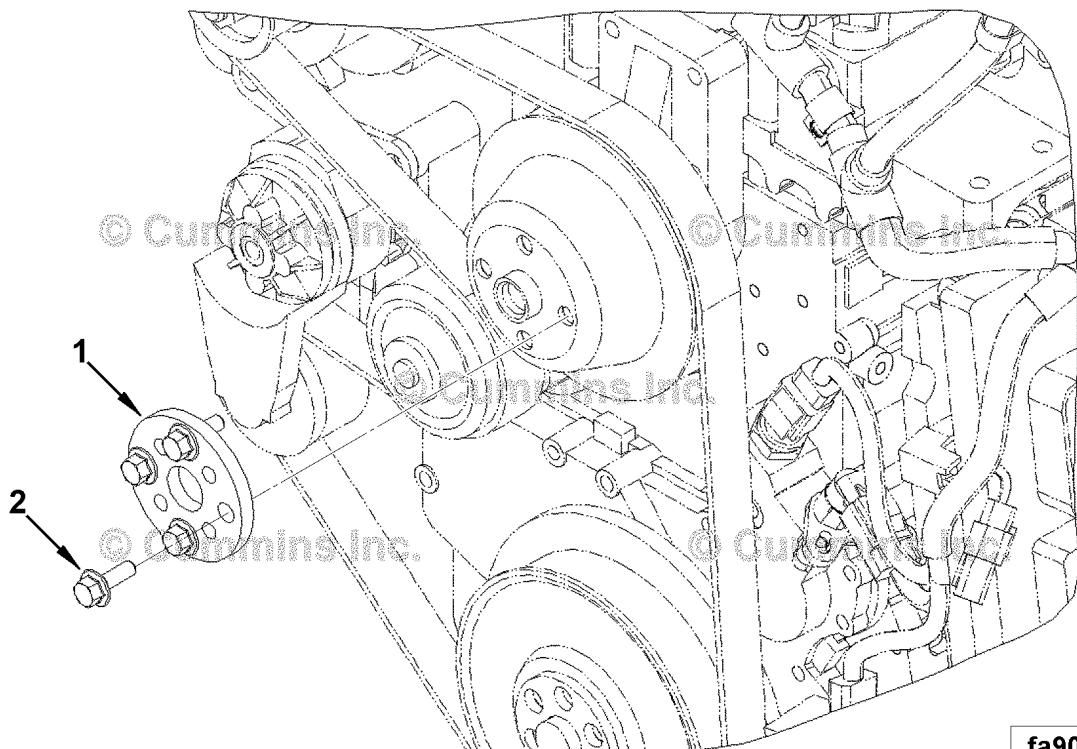
fa900za

Group No. 08.03

**Fan Drive**

Option No. FA9345

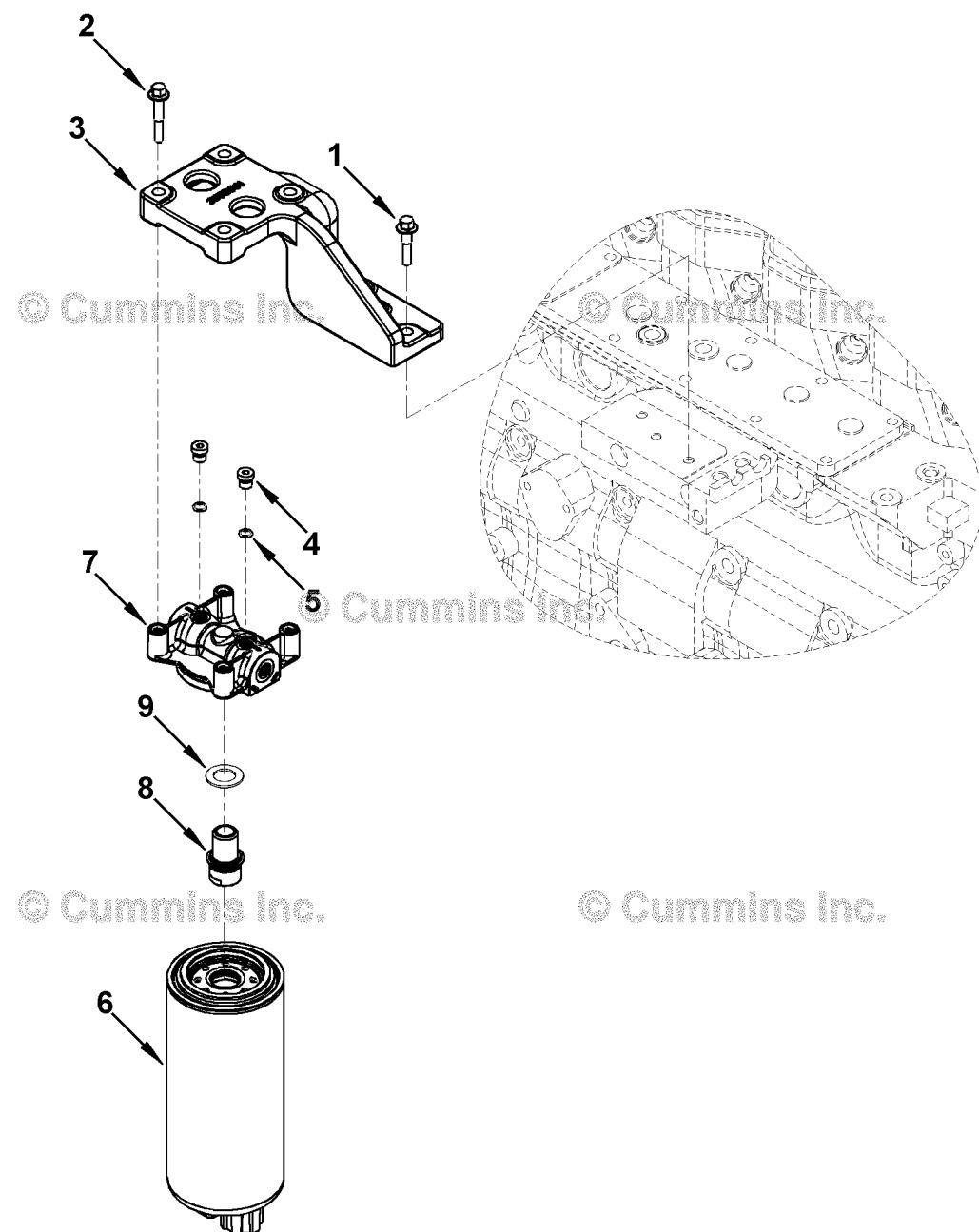
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Fan Drive</b>		
		<b>OPTION FA9345</b>		
1	3928873 3913433	Screw, Hex Flange Head Cap Support, Fan	4 1	M8 X 1.25 X 40
2	3035960	Ring, Retaining	2	
3	3907769	Screw, Hexagon Head Cap	1	
4	3923044	Retainer, Fan Hub	1	
5	3910739	Bearing, Ball	1	
6	3911924	Hub, Fan	1	
7	3913434	Support, Fan	1	
8	3914461	Pulley, Fan	1	



fa901zi

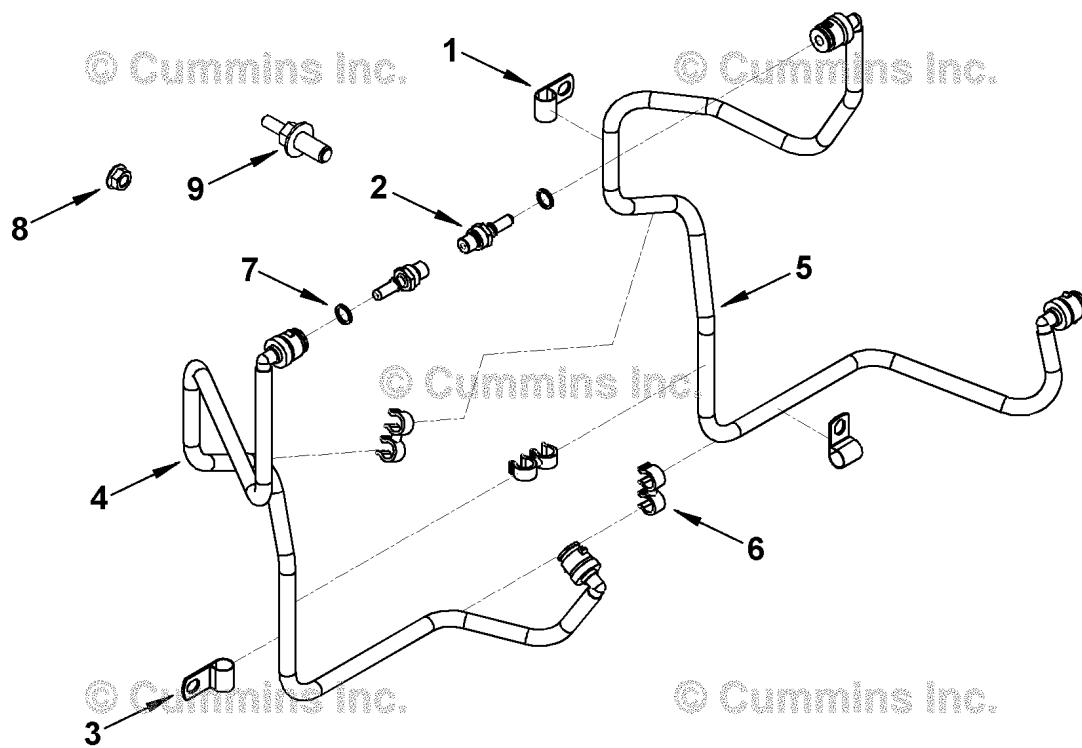
Ref No.	Part Number	Part Name	Req	Remarks
1 2	3915490 3902460	Fan Drive Mounting  OPTION FA9734  Plate, Clamping Screw, Hex Flange Head Cap	1 4	Fan Drive Mounting Thread Size: M10 X 1.5 Capscrew Length: 25 mm Clamping Plate Thickness: 8.4 mm Clamping Plate Bolt Circle: 4 X 60 mm  M10 X 1.50 X 25

## NOTES



ff967gm

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Fuel Filter Location</b>		
		<b>OPTION FF9541</b>		
				Fuel Filter Location Element Type: Single element style: Spin-on drain provision: No fuel heater provided: No fuel heater voltage: No water separator provision: No Location: Engine Mounted CCL to top of Canister (mm): 417 engine CL to Canister CL (mm): 316 FFOB to Canister CL (mm): -324 filter length (mm): 191 filter diameter (mm): 93.5 fuel filter fuel inlet location: CCL to inlet CL (mm): 439 engine CL to inlet CL (mm): 316 FFOB to inlet CL (mm): -277 fuel filter fuel outlet location: CCL to outlet CL (mm): 439 engine CL to outlet CL (mm): 316 FFOB to outlet CL (mm): -371 absolute filtration (microns): 3 Engine Family: "B" Series.
1	3900632	Screw, Hex Flange Head Cap	3	M8 X 1.25 X 35
2	3901445	Screw, Hex Flange Head Cap	4	M8 X 1.25 X 45
3	4992695	Support, Filter	1	
	5264205	Filter, Fuel	1	
	3678923	Plug, Threaded	2	M10 X 1 X 13.5
4	(3678924)	Plug, Threaded	1	Purchase 3678923
5	3678925	Seal, O Ring	1	M10
6	4989106	Filter, Fuel	1	Buy From Cummins Filtration
7	4990848	Head, Fuel Filter	1	Buy From Cummins Filtration
8	5264206	Adapter, Filter Head	1	
9	4937285	Gasket, Filter	1	Buy From Cummins Filtration



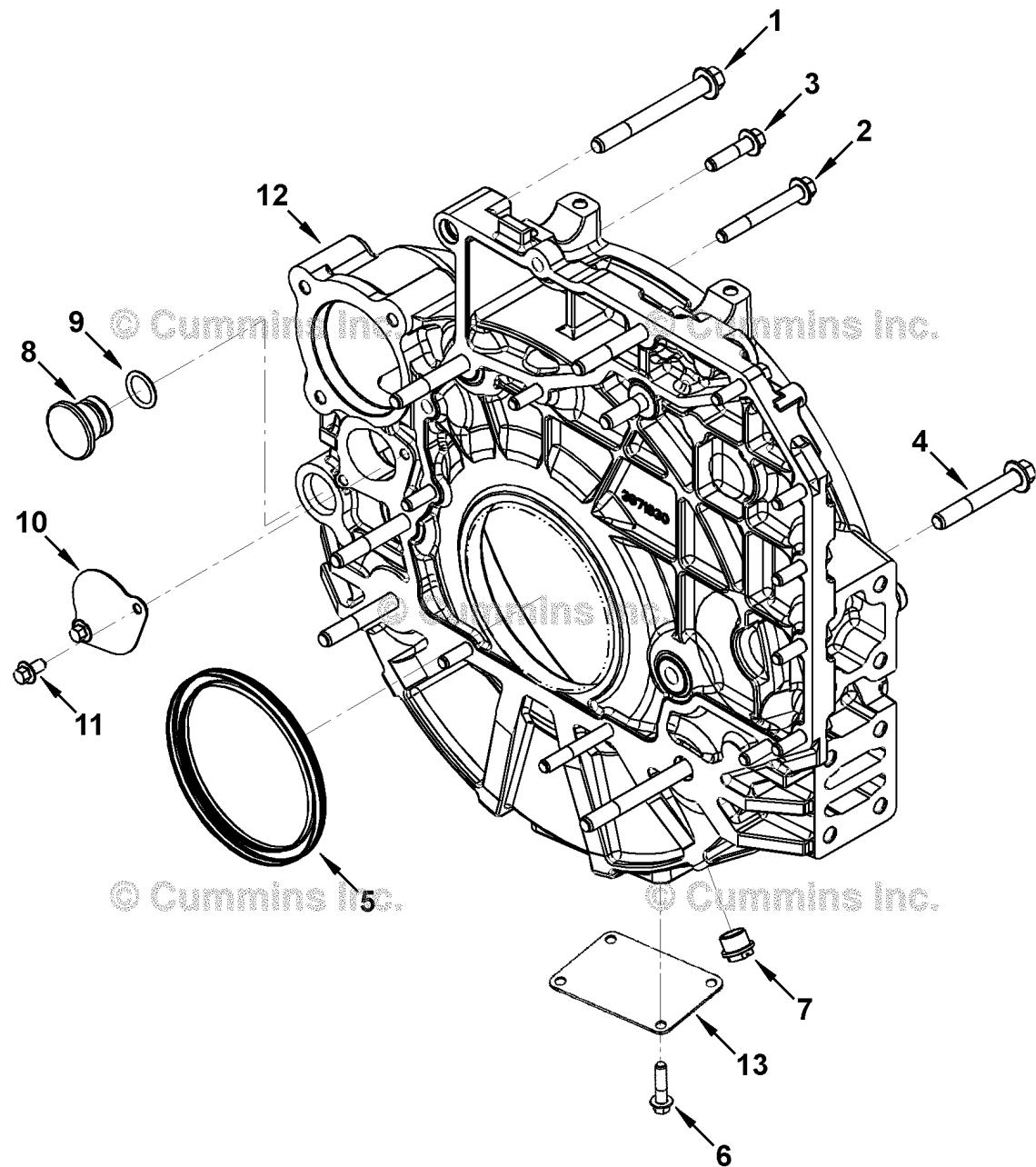
ff968gf

Group No. 06.04.1

**Fuel Filter Plumbing**

Option No. FF9573

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Fuel Filter Plumbing</b>		
		<b>OPTION FF9573</b>		
1	3609967	Clip	2	Fuel Filter Plumbing
2	3964337	Connector, Qck Disconnect	2	
3	68152	Clip	1	# 4
	4941584	Tube, Fuel Supply	1	
4	4941582	Tube, Fuel Supply	1	
5	4941583	Tube, Fuel Supply	1	
6	3954778	Clamp, Tube	4	
6	3954778	Clamp, Tube	1	
7	4891385	Washer, Sealing	2	
8	3900589	Nut, Hexagon Flange	3	M8 X 1.25
9	3944061	Screw, Hex Flange Head Cap	2	



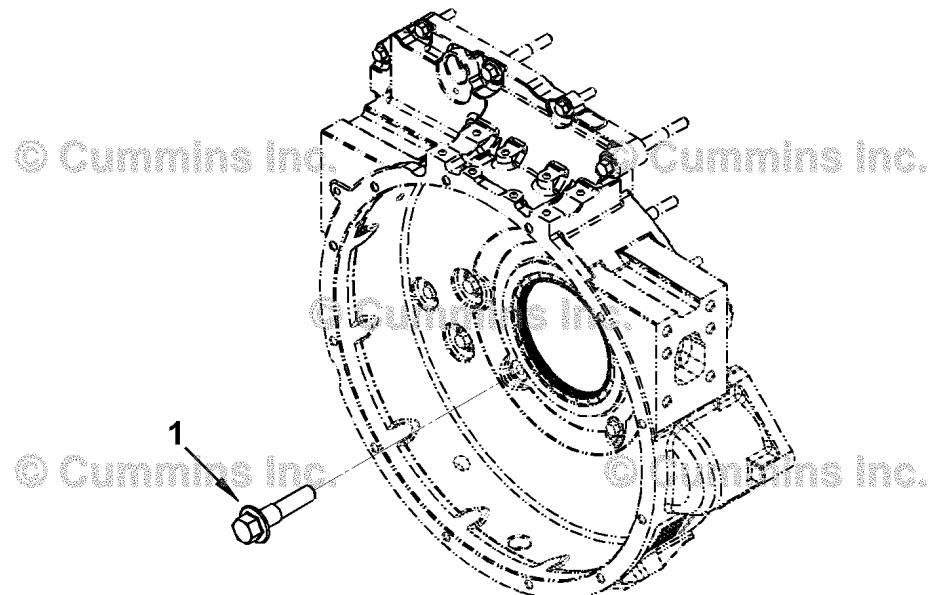
fh960gz

Group No. 16.01

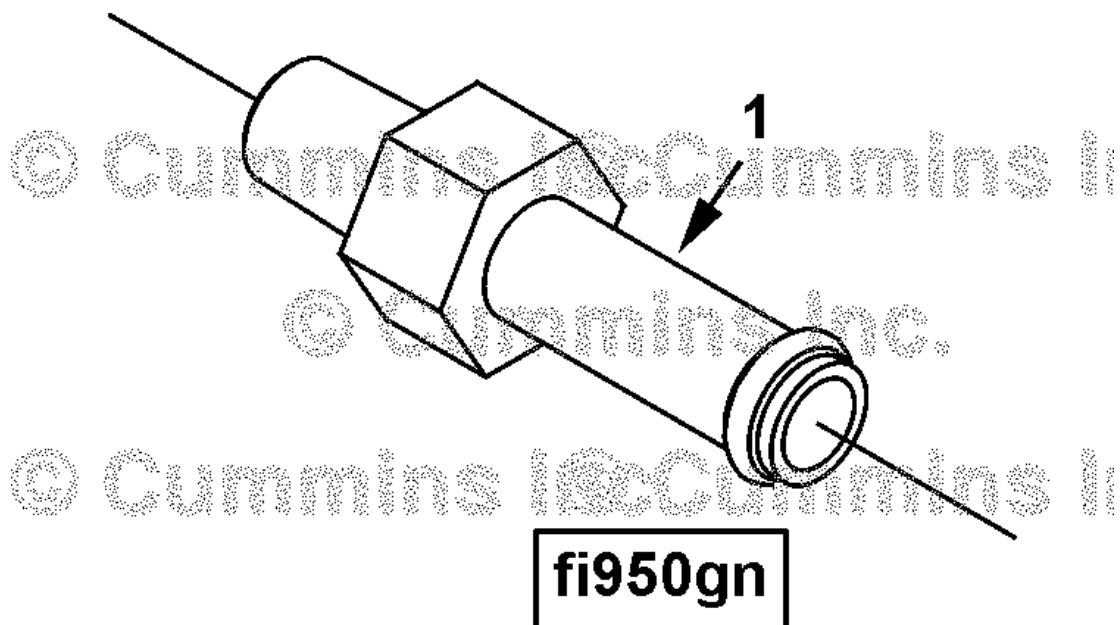
**Flywheel Housing**

Option No. FH9481

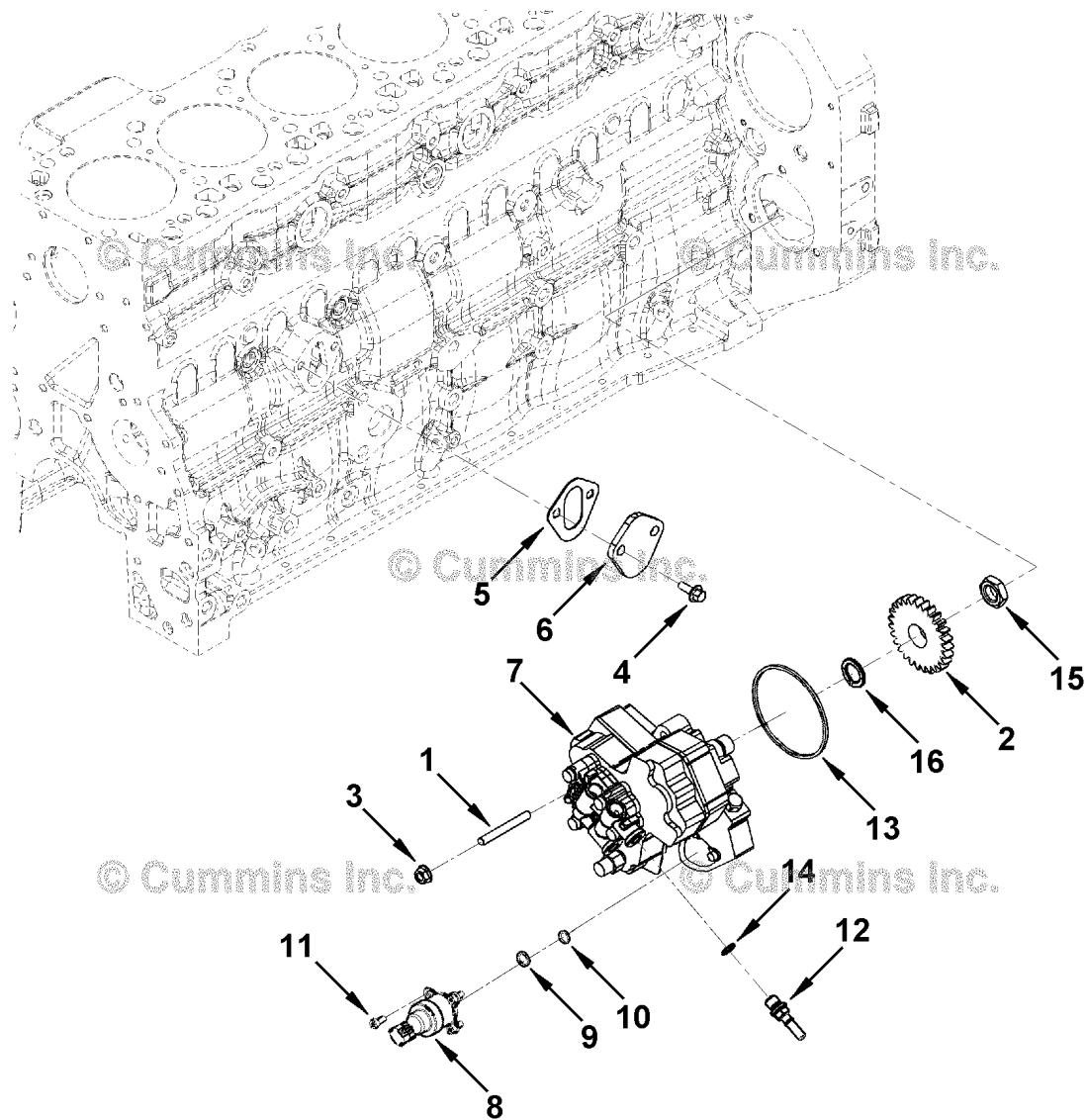
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Flywheel Housing</b>		
		<b>OPTION FH9481</b>		
				Flywheel Housing Clutch Type: Dry Starter Bore Position: 55 FH to block pattern: 8 xm12 x1.75 + 2 xm10 x1.5 SAE size: 3 starter pilot bore diameter: 88.9 Starter bore location horiz from CCL: - 177.26 vert from CCL: 124.12 Starter mounting hole pattern angle: 0 Starter mounting hole thread size: M10 Starter mounting face offset from RFOB: 41.2 starter motor center distance(mm): 216.4 Tachometer sensor hole location: 3rd quadrant Tach Sensor Hole Count: 1 Tachometer sensor hole thread size: 3/4-16 UNF Material: Aluminum Engine Mount Type: Pad mounting pad hole description: 8 xm12 x 1.75 per side mounting pad top hole Loc from CCL (mm): 84.68 mounting pad angle from vertical (deg): 0 Transmission mounting hole count: 12 Transmission mounting hole thread size: M10X1.5-6 h Engine Family: "B" Series distance across mounting surface(mm): 490 Suitable for +/- 6 g vertical, +/- 4 g axial, and +/- 2 g lateral load with 409 kg transmission.
1	3089188	Screw, Hex Flange Head Cap	2	
2	3900679	Screw, Hex Flange Head Cap	2	M10 X 1.50 X 80
3	3903464	Screw, Hex Flange Head Cap	9	M10 X 1.50 X 40
4	3914177	Screw, Hex Flange Head Cap	6	M12 X 1.75 X 80
5	5259499	Seal, Oil	1	Service as 4955566
	5264559	Housing, Flywheel	1	
6	3900225	Screw, Hexagon Head Cap	4	M8 X 1.25 X 16
7	3904181	Plug, Threaded	1	3/4 - 16 UNF
8	3910248	Plug, O Ring	1	
9	3910260	Seal, O Ring	1	
10	3908095	Plate, Cover	1	
11	3925883	Screw, Hex Flange Head Cap	2	M8 X 1.25 X 16
12	5264554	Housing, Flywheel	1	
13	3924920	Plate, Cover	1	
		<b>Service Parts</b>		
	3934486	Rr Crankseal Serv Kit	A/R	
5	5259499	Seal, Oil	1	Service as 4955566
(3904325)		Tool, Seal Installation	1	
(3909409)		Tool, Seal Installation	1	

**fh960gb**

Ref No.	Part Number	Part Name	Req	Remarks
1	3903464	<b>Flywheel Housing Mounting</b>  <b>OPTION FH9629</b>  Screw, Hex Flange Head Cap	1	Flywheel Housing Mounting 1 x M10 x 1.5 40 long capscrew For use without engine balancer. M10 X 1.50 X 40



Ref No.	Part Number	Part Name	Req	Remarks
1	3974812	Fuel Inlet Fitting OPTION FI9054 Coupling, Plain Hose	1	Fuel Inlet Fitting Fuel Inlet Fitting Supplier: Cummins Fuel Inlet Fitting Type: Straight orientation: Centerline of crank to OEM attachment (mm): N/A Centerline of engine to OEM attachment (mm): N/A front face of block to OEM attachment (mm): N/A OEM Attachment: 10mm Push On Hose single bead.

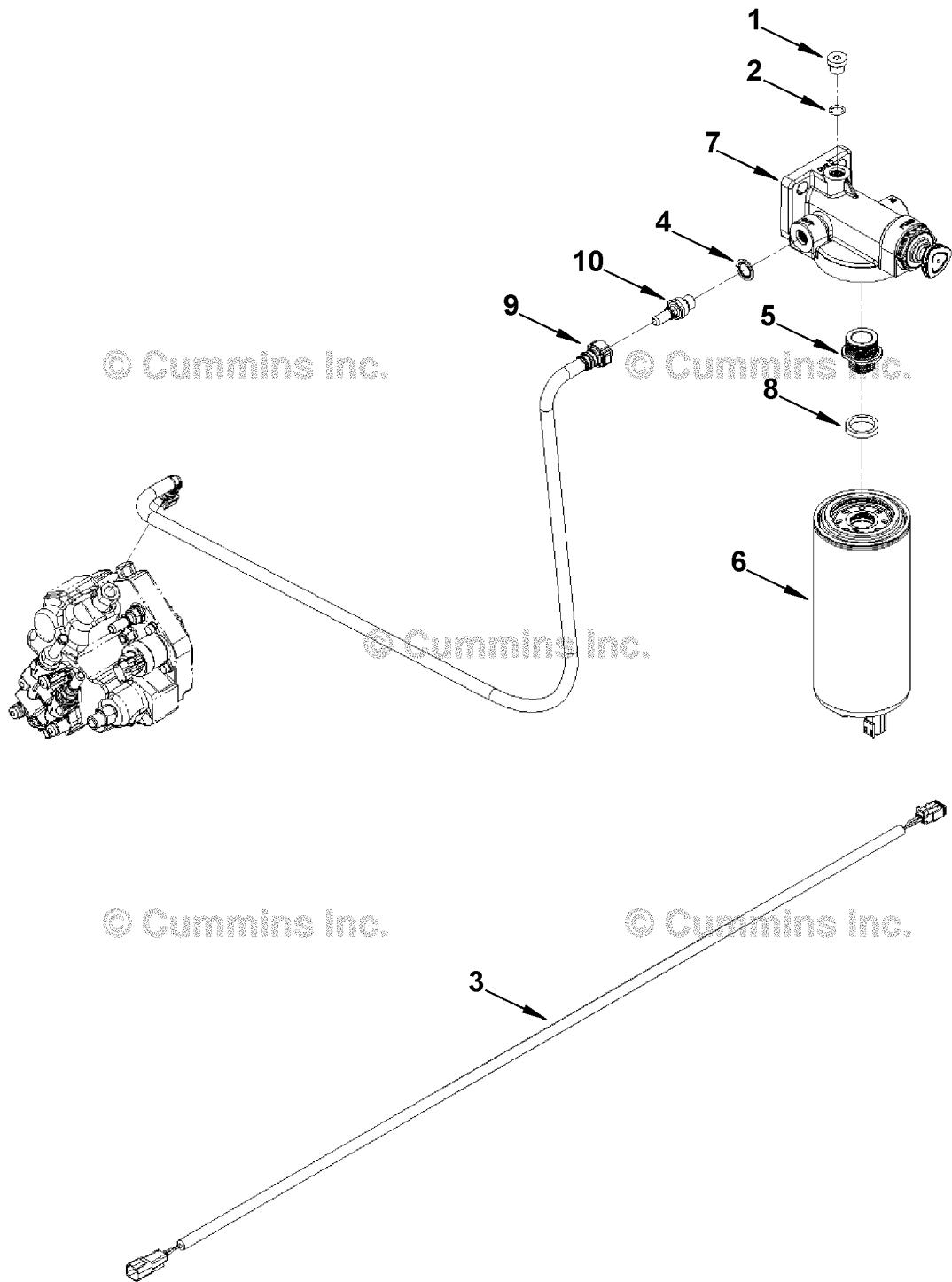
**fp965gz**

Group No. 05.01

**Fuel Pump**

Option No. FP90312

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Fuel Pump</b>		
		<b>OPTION FP90312</b>		
1	3949419	Stud	3	
2	3955153	Gear, Fuel Pump	1	
3	3900589	Nut, Hexagon Flange	3	
4	3900630	Screw, Hex Flange Head Cap	2	
5	3939258	Gasket, Cover Plate	1	
6	3948083 (5256607)	Plate, Cover	1	
7	5256608	Pump, Fuel	1	Recon Equivalent 5256607 NX
8	5257595	Pump, Fuel	1	
9	3947269	Actuator, Etr Fuel Control	1	
10	3947270	Seal, O Ring	1	
11	4932790	Seal, O Ring	1	
12	3974765	Screw, Socket Head Cap	3	
13	2830977	Connector, Qck Disconnect	4	
14	4891385	Seal, O Ring	1	
15	4890634	Washer, Sealing	4	
16	4890635	Nut, Regular Hexagon	1	
		Washer, Spring	1	



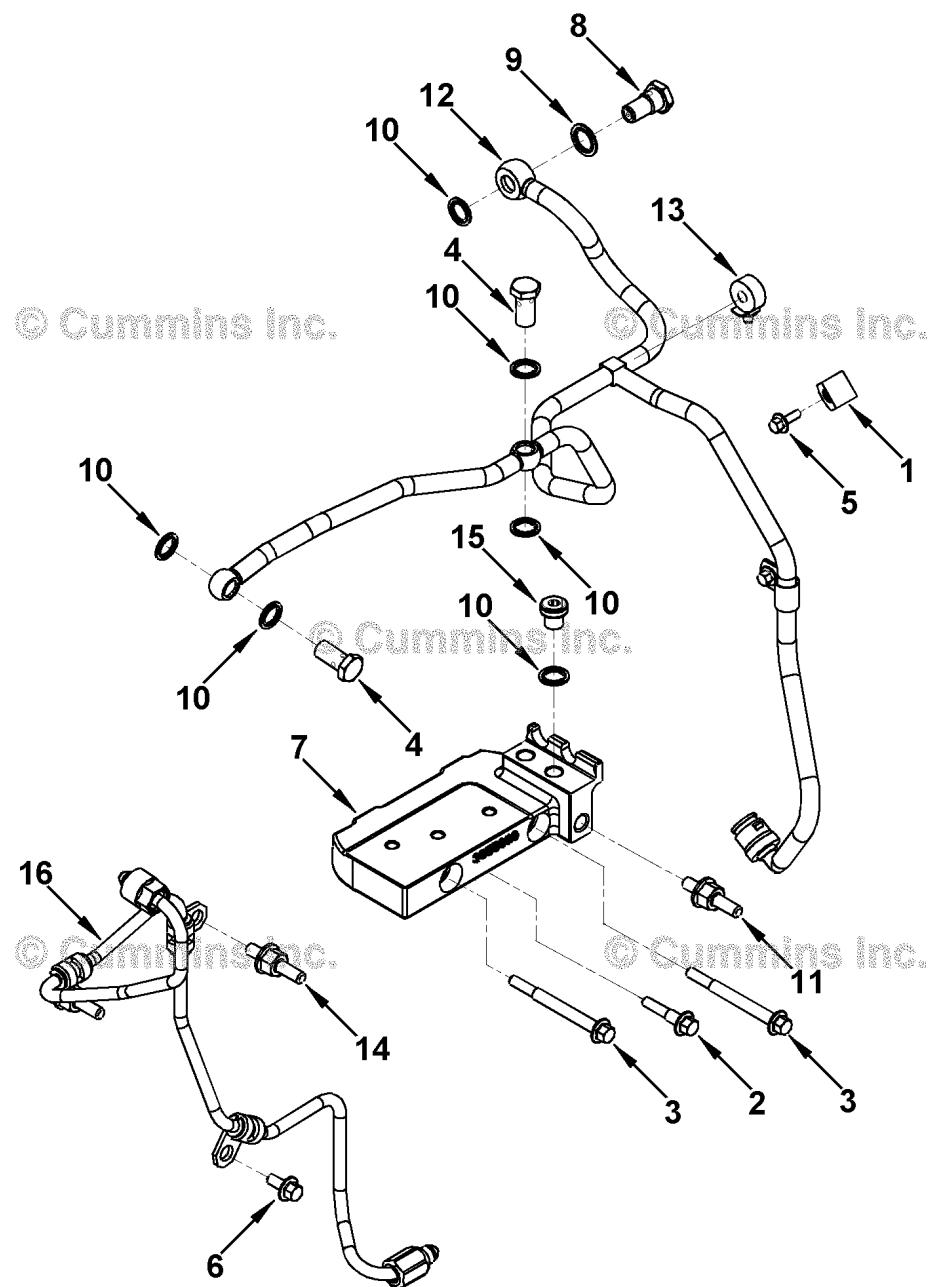
fs960gk

Group No. 05.19

**Fuel System Accessories**

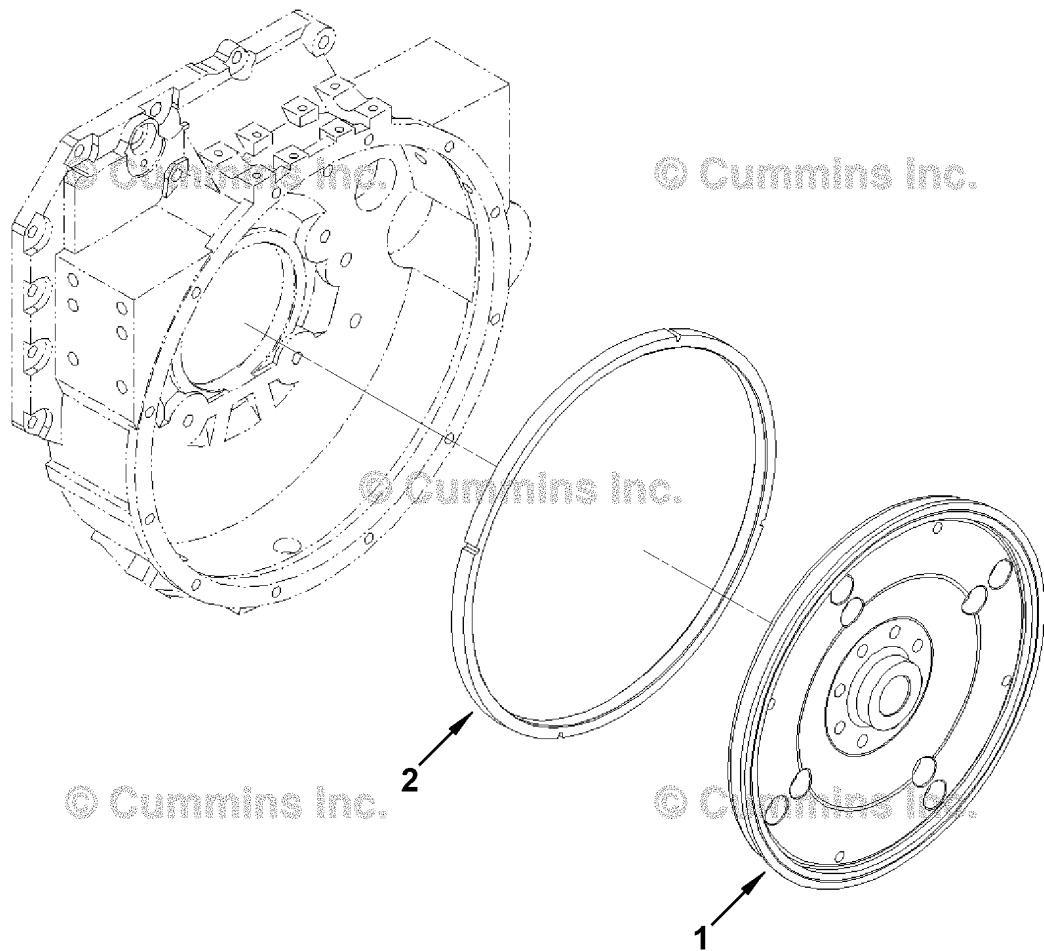
Option No. FS9920

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Fuel System Accessories</b>		
		<b>OPTION FS9920</b>		
				Fuel System Accessories element type: single element style: Spin-on priming provision: Yes drain provision: Yes fuel heater voltage: None water separator provision: Yes water in fuel sensor (wif): Yes water in fuel sensor(wif)harness provided: Yes water in fuel sensor harness length(FT): 6 FT Location: Off Engine Hose Length: 4 FT SAE J2044 Connector absolute filtration (microns): 25 Engine Family: "B" Series.
1	4929619	Plug, Threaded	1	
2	4894721	Washer, Sealing	1	
3	4995590	Harness, Wiring	1	
4	3963990	Washer, Sealing	1	
	3975126	Filter, Fuel	1	
5	3975405	Adapter, Filter Head	1	Individual Comp. Available Fleetguard P/N 397367400
6	3973233	Filter, Fuel	1	Fleetguard P/N FS19732
7	3975404	Head, Fuel Filter	1	
8	4946959	Gasket, Filter	1	Fleetguard #033384900
9	4939472	Hose, Flexible	1	
10	3964337	Connector, Qck Disconnect	1	



ft962gy

Ref No.	Part Number	Part Name	Req	Remarks
		Fuel Plumbing		
		OPTION FT9113		
				Fuel Plumbing Structure Code: Mr 03 EBM Engine Cylinders: 6 fitting type: N/A 4 fitting supplier: Customer orientation: N/A OEM Attachment: M12 X 1.5-6 H Female OEM Drain Fitting Location: CL of engine (mm): 307.0 CL of crank (mm): 373.0 FFOB (mm): -532.0 Cylinder head Fuel Drain Loc.: CL of engine (mm): 16.0 CL of crank (mm): 391.5 FFOB (mm): -756.5 Common rail fuel Drain Loc.: CL of engine (mm): 216.0 CL of crank (mm): 412.0 FFOB (mm): -289.5 Fuel pump Drain Loc.: CL of engine (mm): 291.5 CL of crank (mm): 55.0 FFOB (mm): -695.0 ECM fuel Manifold Drain Port: CL of engine (mm): N/A CL of crank (mm): N/A FFOB (mm): N/A Unique Characteristics: For Use With Low mount pump.
1	68152	Clip	2	# 4
2	3900632	Screw, Hex Flange Head Cap	2	M8 X 1.25 X 35
3	3902112	Screw, Hex Flange Head Cap	1	M8 X 1.25 X 80
4	3903035	Screw, Banjo Connector	2	
5	3913638	Screw, Hex Flange Head Cap	2	M6 X 1.00 X 16
6	3925883	Screw, Hex Flange Head Cap	1	M8 X 1.25 X 16
7	3955080	Connection, Fuel Block	1	
8	3957290	Valve, Check	1	
9	3963988	Washer, Sealing	1	
10	3963990	Washer, Sealing	6	
11	3955171	Coupling, Plain Hose	1	
12	3978505	Tube, Fuel Drain	1	
13	4899743	Clip	1	
14	4929065	Stud	2	
15	4929619	Plug, Threaded	1	
16	4940552	Tube, Fuel Supply	1	

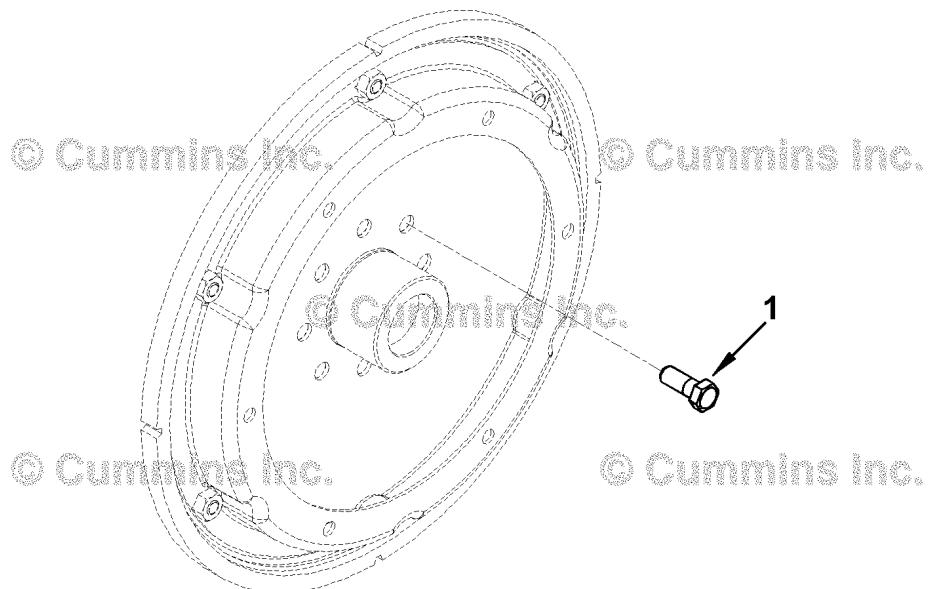
**fw954gm**

Group No. 16.02

**Flywheel**

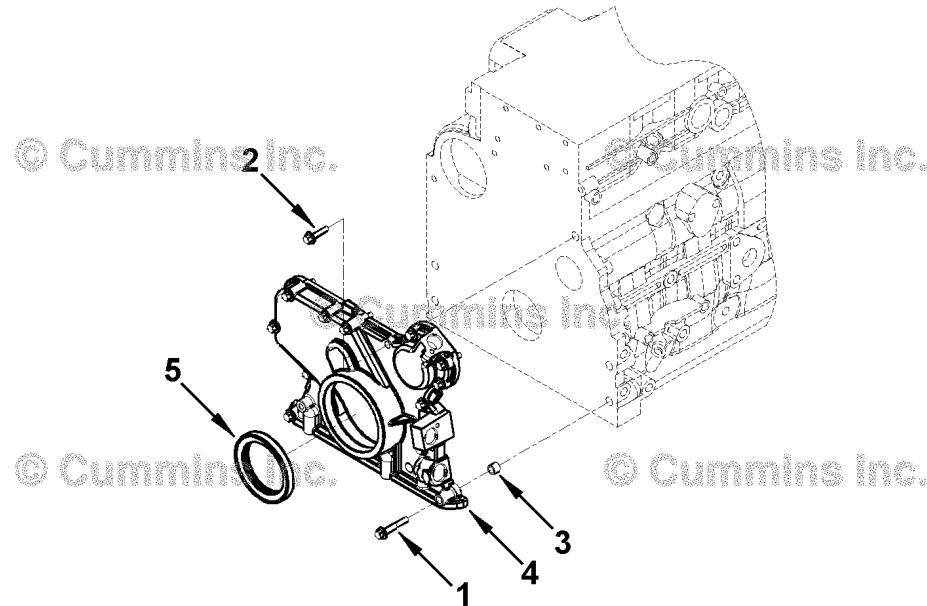
Option No. FW9857

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3972705 (3972704) 3905427	Flywheel Flywheel Gear, Flywheel Ring	1 1 1	Flywheel ring gear diametrical pitch: 8/10 ring gear tooth count: 127 ring gear outside diameter(mm): 407.85 supplier: Cummins type: Flywheel max full load rated speed(not to exceed): 2850 flywheel inertia: 0.56 flywheel mounting flange to ring gear leading edge (mm): 16.125 mounting web thickness (mm): 16 Pilot Bearing Bore Diameter (mm): 71.956 clutch/t. C.Mounting bolt circle count: Double clutch/t. C.Mounting hole count: 8 clutch/t. C.Bolt circle diameter (mm): 333.38 clutch/t. C.Mounting hole spacing: Equal clutch/t. C.Mounting hole size: 3/8-16 UNC-2 b 2 nd clutch/t. C.Mounting hole count: 8 2 nd clutch/t. C.Bolt circle diameter (mm): 295.28 2 nd clutch/t. C.Mounting hole spacing: Equal 2 nd clutch/t. C.Mounting hole size: 3/8-16 UNC-2 b Cummins material standard: 40001 Intended Drive Hardware: 10in. Or 11.5 overcenter clutch.



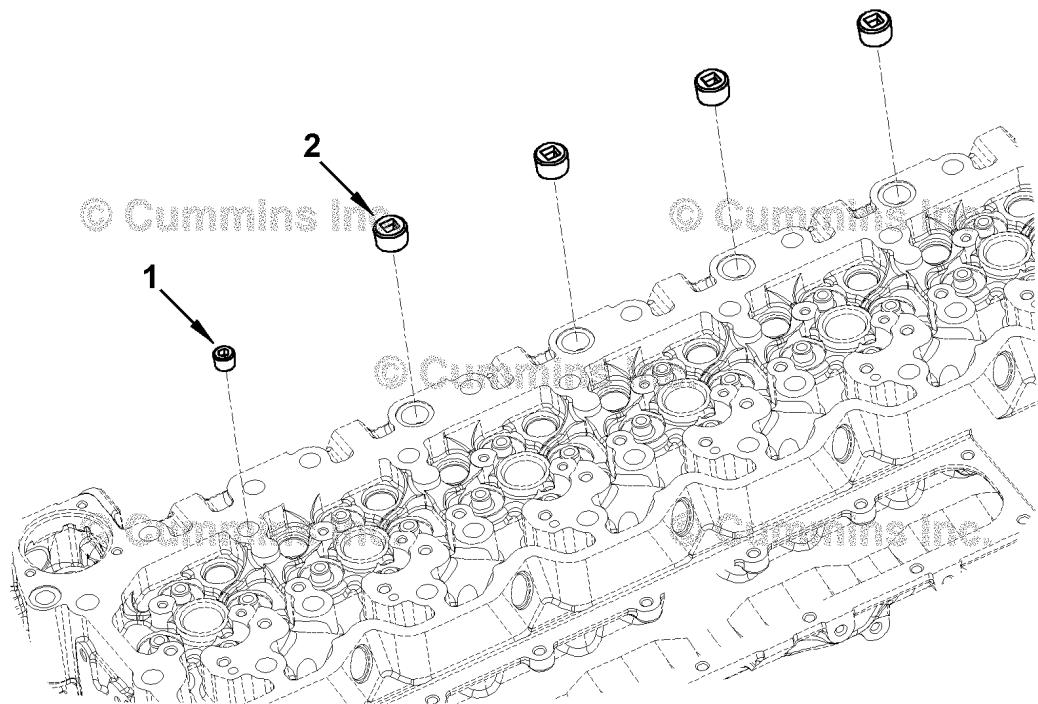
fw951zu

Ref No.	Part Number	Part Name	Req	Remarks
1	4894641	Flywheel Mounting  OPTION FW9934  Screw, Captive Washer Cap	8	Flywheel Mounting Bolt Length (mm): 31 Flywheel Web Thickness (mm): 16 To Suit REPTO: No

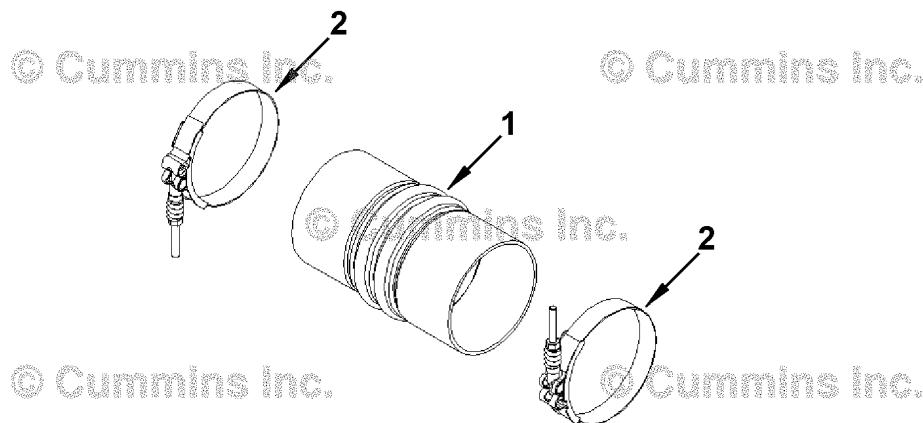


gg940gy

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Front Gear Cover</b>		
		<b>OPTION GG9836</b>		
1	3901445	Screw, Hex Flange Head Cap	7	Front Gear Cover
2	3902114	Screw, Hex Flange Head Cap	6	Structure Code: 03 EBM
3	3949326	Dowel, Ring	2	Engine Family: "B" Series
4	5258751	Cover, Front	1	Cylinders: 4/6
5	4890832	Seal, Oil	1	Design Phase: N/A
				Belt Retainer Provision: No
				Noise Panel Provision: No
				Material: Cast Aluminium
				Oil Pan/Front Gear Cover Mtg Holes: 2
				Oil Pressure Switch Provision: Yes
				Oil Fill Provision: No
				M8 X 1.25 X 45
				M8 X 1.25 X 30
				Service as 5289179

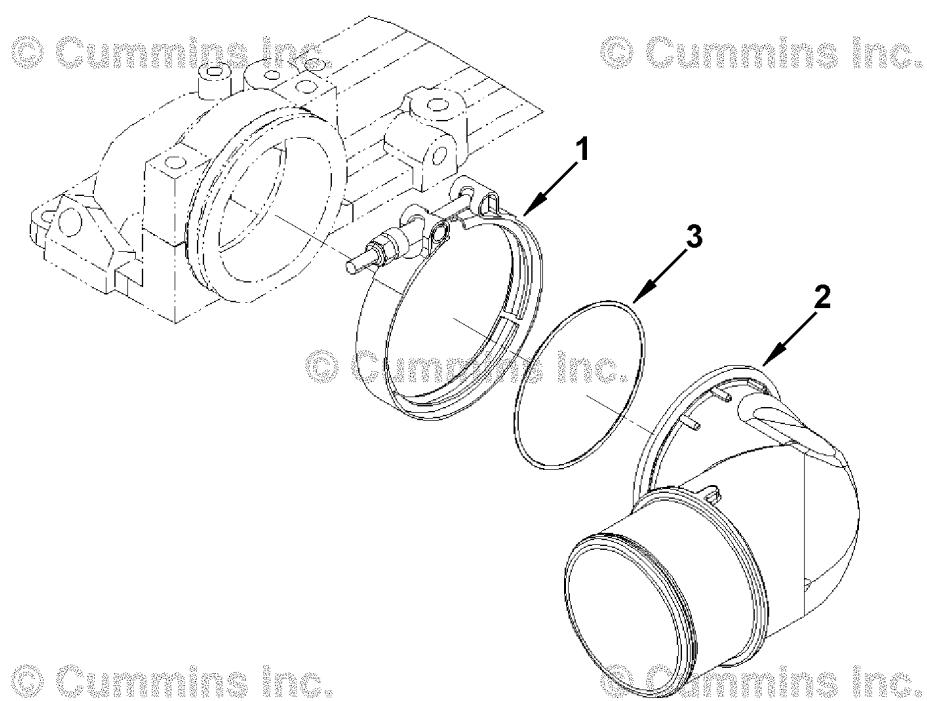
**hc901zm**

Ref No.	Part Number	Part Name	Req	Remarks
1 2	4931643 4933532	<b>Cabin Heater Plumbing</b>  <b>OPTION HC9026</b>  Plug, Pipe Plug, Pipe	4 1	Cabin Heater Plumbing For use with customer supplied cab heater. 1/2 NPT 3/4 NPT



ic910gd

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3071051 3926702	Air Intake Hose  OPTION IC9288  Hose, Hump Clamp, Spring Hose	4 8	Air Intake Hose Engine Family: "B" and "C" Series ID (mm): 76.2 Length (mm): 165.1 Number Of Hoses Provided: 4 Number Of Clamps Provided: 8 Supply Method: Kit

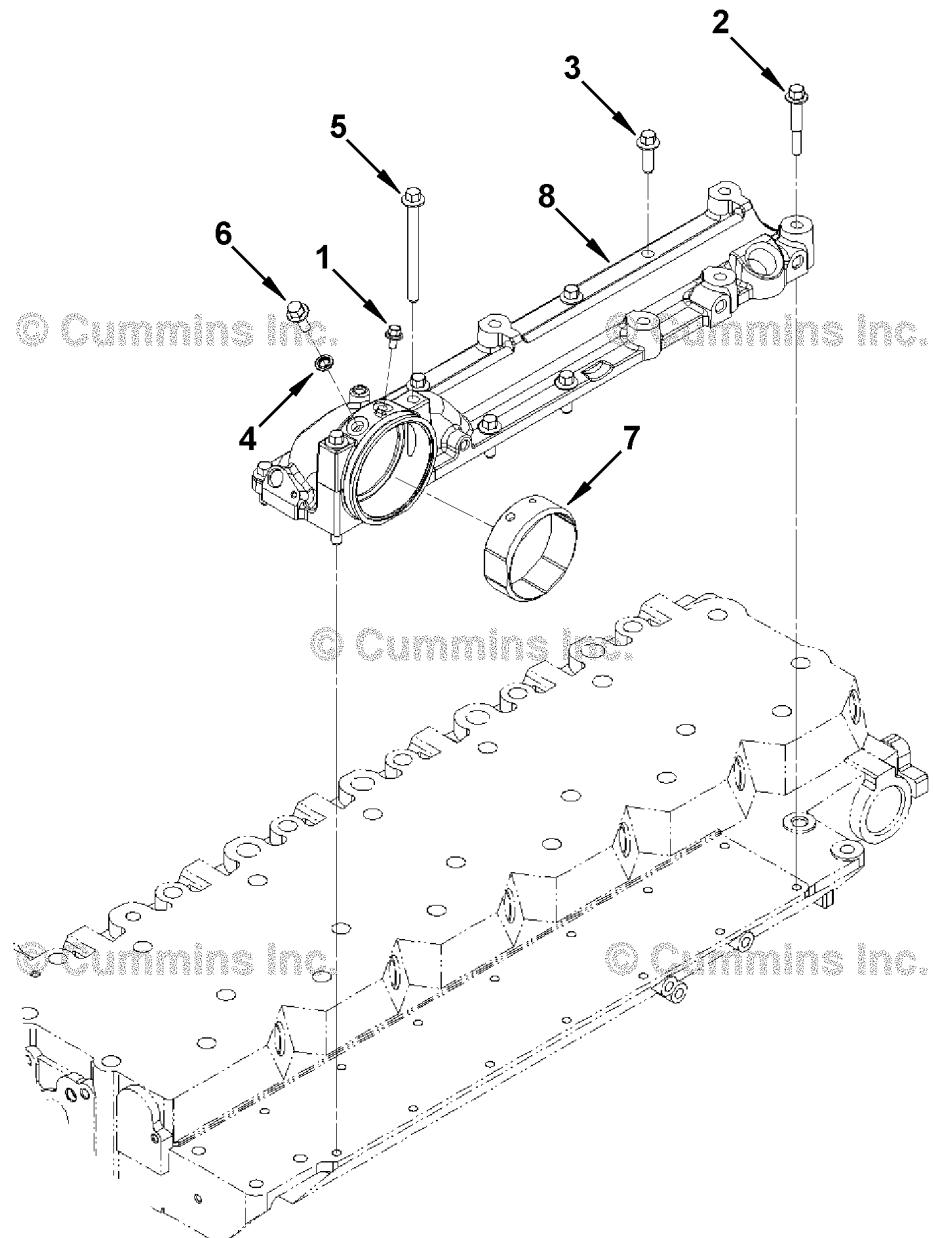
**ic910gp**

Group No. 10.01.2

**Air Intake Connection**

Option No. IC9480

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Air Intake Connection</b>		
		<b>OPTION IC9480</b>		
1	4938989	Clamp, V Band	1	Air Intake Connection Design Phase: Current Product Engine Family: "B" Series Engine Cylinders: 4 And 6 Engine Aspiration: Turbocharged Connection supplier: Connection Style: Elbow Connection orientation: Customer defined customer interface location from engine centerline(mm): 279.75 from crank centerline (mm): Customer defined from front face of block (mm): Customer defined Connection Outside Diameter (mm): 75.
2	4933777	Pipe, Air Transfer	1	
3	3867646	Seal, O Ring	1	



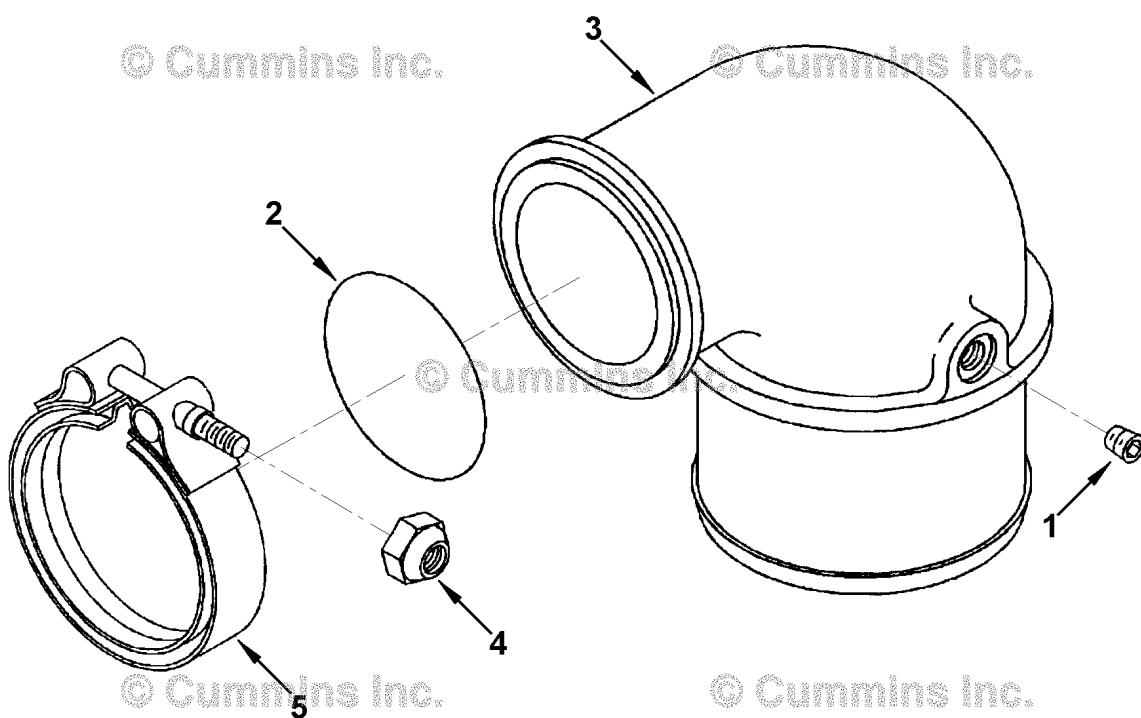
im903gr

Group No. 10.01

**Air Intake Manifold**

Option No. IM9112

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Air Intake Manifold</b>		
		<b>OPTION IM9112</b>		
1	3900625	Screw, Hex Flange Head Cap	1	Air Intake Manifold
2	3900633	Screw, Hex Flange Head Cap	1	Design Phase: Current Product
3	3918109	Screw, Hex Flange Head Cap	7	Engine Family: "B" Series
4	3918188	Washer, Sealing	1	Engine Cylinders: 6
5	3919995	Screw, Hex Flange Head Cap	2	Intake connection mounting provision: Yes
6	3900630	Screw, Hex Flange Head Cap	1	Intake Connection Type/interface: Half
7	4942495	Housing, Starting Aid	1	Marmon flange Marmon flange diameter (mm): 88
8	4981331	Manifold, Air Intake	1	Intake Connection Mounting Interface: From engine CL (mm): 221.75 from CCL (mm): 427.728 from FFOB (mm): -132 air heater provision: No
				Integral Air Heater Voltage: N/A fipg (fixed in place gasket) used in this opt air compressor air supply provision: No
				1 M6 X 1.00 X 10
				1 M8 X 1.25 X 50
				7 M8 X 1.25 X 25
				1 M8 X 1.25 X 90
				1 M8 X 1.25 X 20



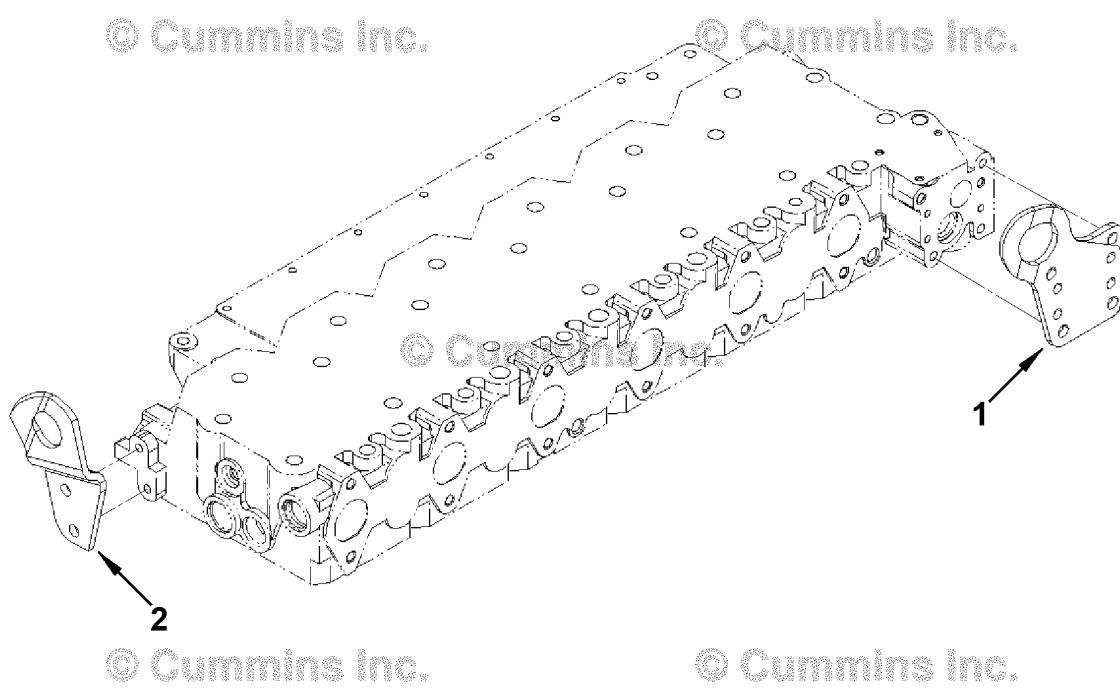
it950ga

Group No. 10.01.2

**Air Transfer Connection**

Option No. IT9039

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Air Transfer Connection</b>		
		<b>OPTION IT9039</b>		
				Air Transfer Connection Connection Supplier: Cummins Connection Type: 90 Degree Elbow orientation: Rotatable engine interface flange type: Half Marmon engine interface flange diameter(mm): 73.85 (3") engine interface flange thickness (mm): 3.5 OEM Interface Connection. Diameter (mm): 76.7 OEM Interface Connection. Clamping Surface(mm): 33.5 Turbocharger interface to CL OEM interface (mm): 95.2 OEM Interface To CL Turbocharger Interface(mm): 100 customer tapping: 1/8-27 NPTF s-2 supply method: Kit
1	3008465	Plug, Pipe	1	1/8 NPT
2	3883284	Seal, O Ring	1	
3	3918685	Pipe, Air Transfer	1	
4	3923041	Nut, Lock	1	
5	3069053	Clamp, V Band	1	



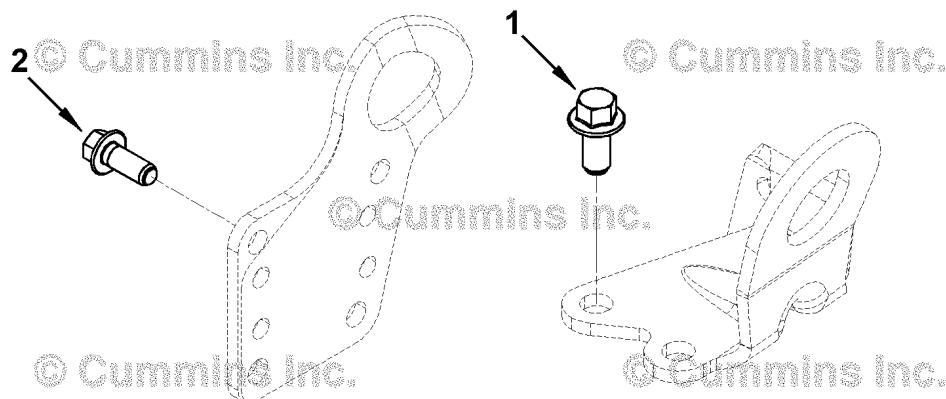
la952gj

Group No. 17.06

**Lifting Arrangement**

Option No. LA9145

Ref No.	Part Number	Part Name	Req	Remarks
1 2	4894100 4933232	<p><b>Lifting Arrangement</b></p> <p><b>OPTION LA9145</b></p> <p>Bracket, Lifting Bracket, Lifting</p>	1 1	<p>Lifting Arrangement</p> <p>Engine Family: "B" Series max lifting load(lbs): 3145 bracket(s) provided:</p> <p>Front and rear accommodates pad mount alternator bracket: Y accommodates spool, hinge and customer supplied mount alternator bracket: Y this bracket is designed for engine mounting on tier3 6B engines.</p> <p>Maximum allowable load for a single bracket is 2450 lbs. front bracket eyelet coordinates as viewed from the front, using front face of block and centerline of crank: X = -144.35; y = 455.73; z = 78.00 rear bracket eyelet coordinates as viewed from the front, using front face of block and centerline of crank: X = - 123.75; y = 444.45; z = 785.58.</p>



la951gz

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3903990 3902460	Lifting Bracket Mounting  OPTION LA9147  Screw, Hex Flange Head Cap Screw, Hex Flange Head Cap	2 4	Lifting Bracket Mounting Engine Family: "B" Series rear bracket capscrew diameter: M12 rear bracket capscrew length: 25 rear bracket capscrew quantity: 2 front bracket capscrew diameter: M10 front bracket capscrew length: 25 accommodates spool, hinge and customer supplied mount alternator bracket. M10 X 1.50 X 20 M10 X 1.50 X 25

## NOTES

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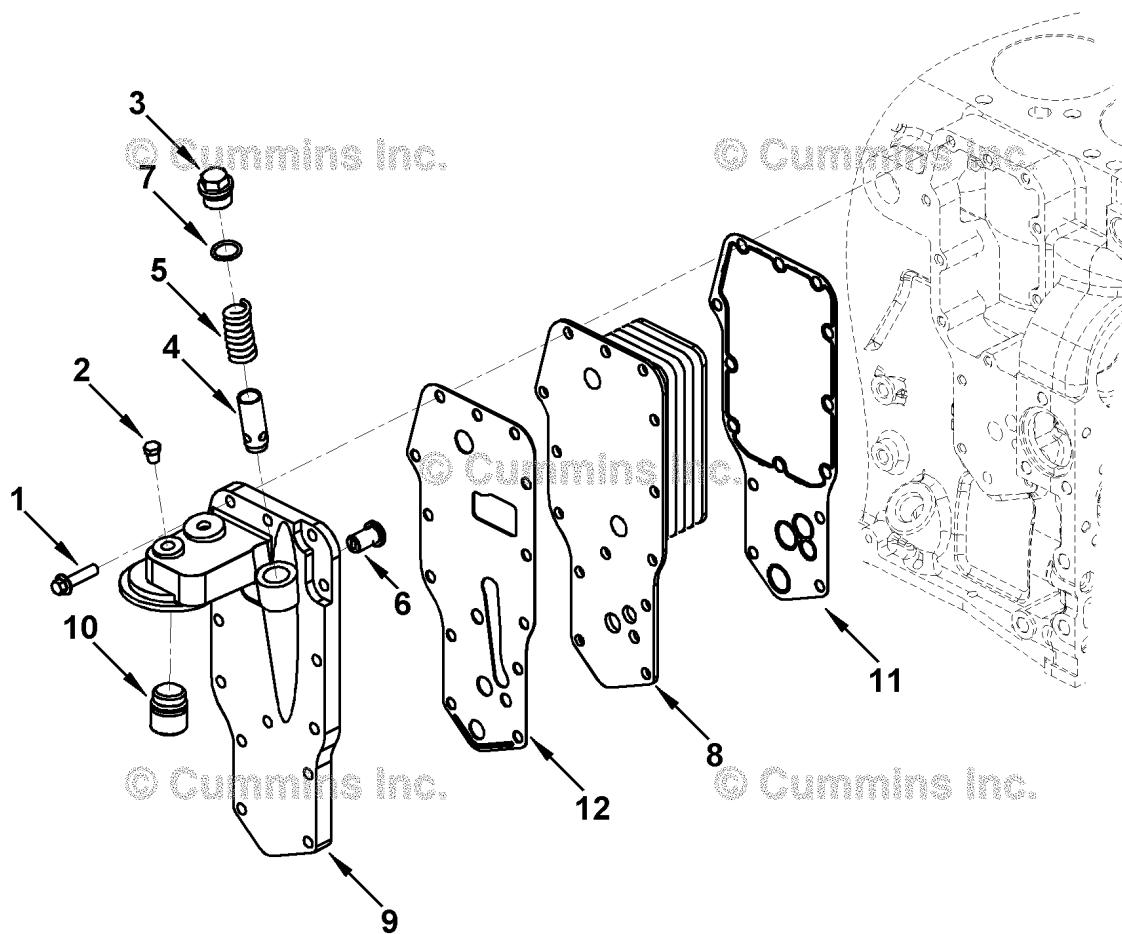
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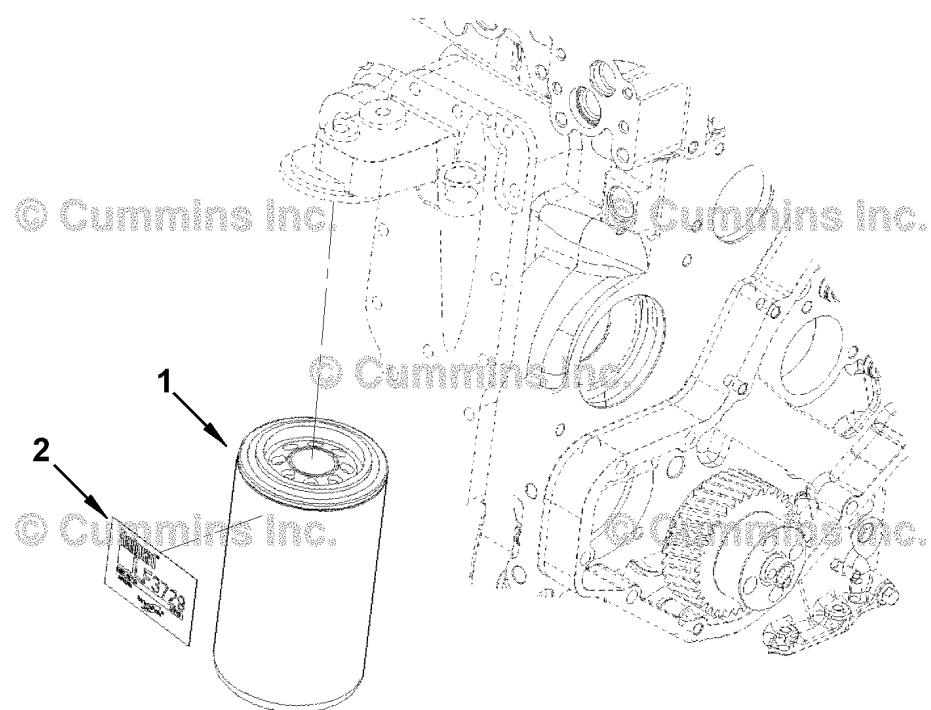
lc900zb

Group No. 07.05

**Engine Oil Cooler**

Option No. LC9244

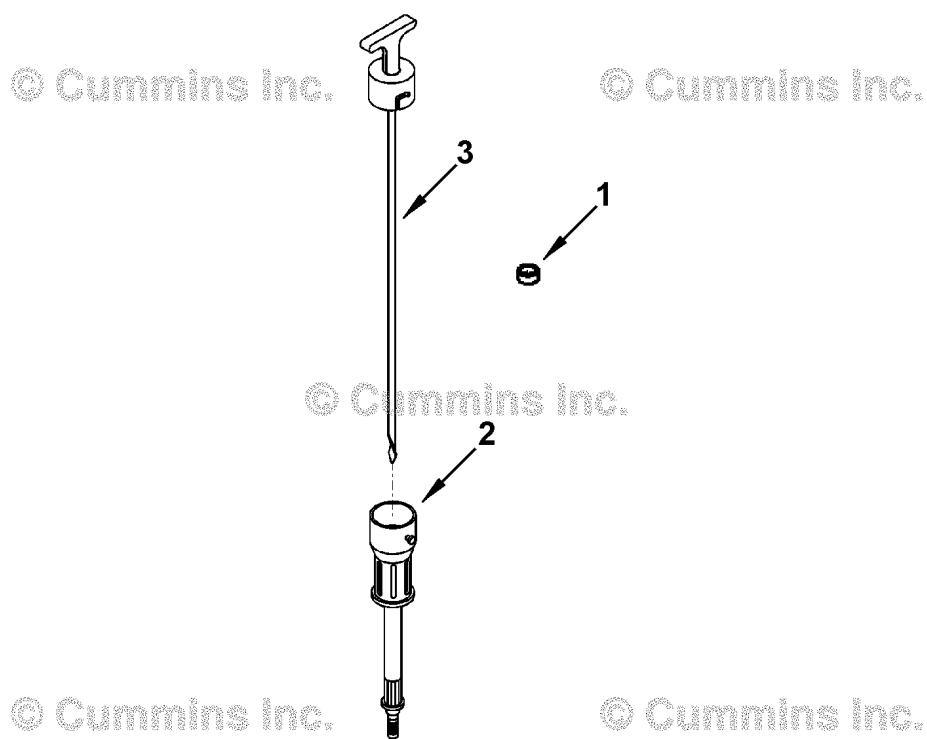
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Engine Oil Cooler</b>		
		<b>OPTION LC9244</b>		
				Engine Oil Cooler Advertised HP Restriction: Less Than or Equal to 300 HP Filter Head Location: On Engine CL of Engine to CL of Filter Head (mm): -227.8 FFOB to CL of Filter Head (mm): -185.0 Filter Thread Size Provided: 1-16 UN-2A Oil Pressure Tap Size: 1/8-27 NPTF Lube Flow Cooling Capacity (GPM): 20.5 Block Mounting Interface: 15 - M8 X 1.25 Threaded Hole.
1	3901445	Screw, Hex Flange Head Cap	15	M8 X 1.25 X 45
2	3906619	Plug, Pipe	2	1/8 NPT
3	3946947	Plug, Threaded	1	
4	3947287	Plunger, Prs Regulator	1	
5	3925009	Spring, Compression	1	
6	3936365	Valve, Pressure Relief	1	
7	3929457	Seal, O Ring	1	
8	3975818	Cooler, Oil	1	
	3965152	Head, Lub Oil Filter	1	
9	(3965153)	Head, Lub Oil Filter	1	
10	3909355	Adapter, Filter Head	1	
11	2830559	Gasket, Oil Cooler Core	1	Serviced as 3977913
12	3974127	Gasket, Filter Head	1	Serviced as 3977913



lf900zk

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3937736 (5259795)	<b>Full Flow Oil Filter</b>  <b>OPTION LF9136</b> Cartridge, Lub Oil Filter Decal	1 1	Full Flow Oil Filter Purchase From Fleetguard

## NOTES



lg955gp

Group No. 07.02

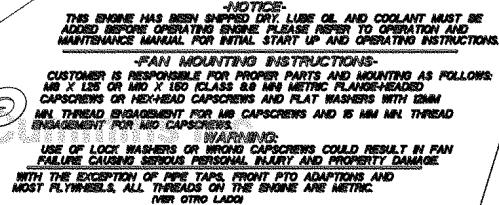
**Oil Level Gauge**

Option No. LG90115

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Oil Level Gauge</b>		
		<b>OPTION LG90115</b>		
				Oil Level Gauge Engine Family: B Engine Cylinders: 6 Oil Pan Sump Type: Standard Front/ Rear Dipstick Supplier: Cummins Dipstick Tube Supplier: Cummins Dipstick Location: Fuel Pump Side tube entry location From FFOB (mm): 352 Dipstick Style: Locking, Free Hanging Dipstick Pull Location: Fuel Pump Side from engine CL: N/A From CCL: N/A From FFOB to CL: N/A Dipstick Brace Attachment Location: N/A from engine CL: N/A From CCL: N/A From FFOB to CL: N/A Oil Level High / Low (qt): 18.5 / 15.85 Dipstick Calibration: Bfob - full / low (mm): 50.5/63.6 Power Angle (deg): 0 Tilt Angle (deg): 0 effective tube length (mm): 153 tube bend angle (deg): N/A handle color: Yellow wire tie to engine for shipment. Purchase 3900955
1	(3905368) (3976993)	Plug, Expansion Dipstick	4 1	
2	3963443	Tube, Oil Gauge	1	
3	3976994	Dipstick	1	

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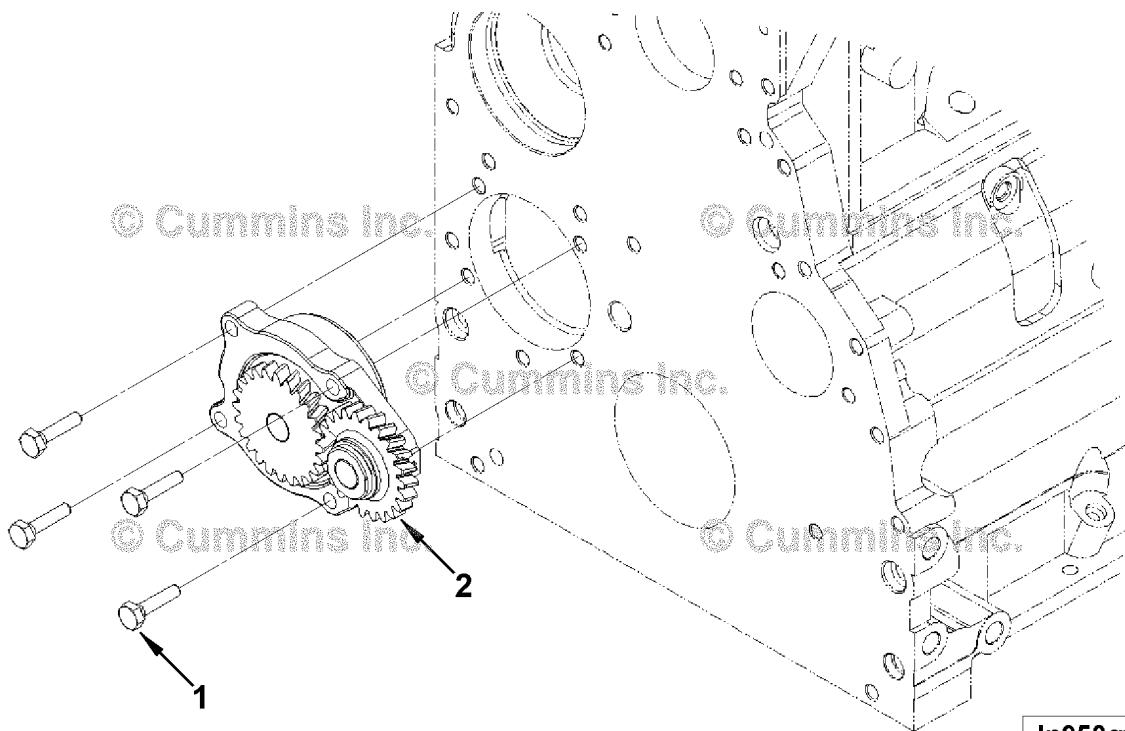


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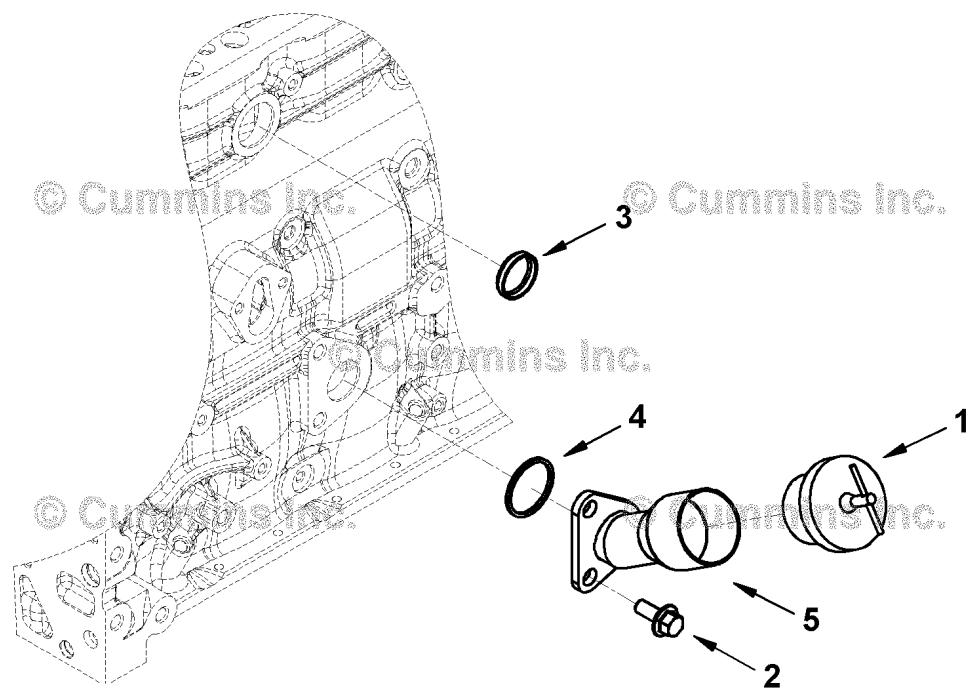
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lo951ga

Ref No.	Part Number	Part Name	Req	Remarks
1 (3967353)		<p style="text-align: center;"><b>Lubricating Oil</b></p> <p style="text-align: center;"><b>OPTION LO9701</b></p> <p>Tag, Instruction</p>	1	<p>Lubricating Oil            Tag Identification: No Oil            Tag Location: Front Lifting Bracket            Variant Content:            DCEC May use 4931584 and 4945477 in            Place of 3967353.            Decal 4945477 Adhere to the Front Valve Cover.</p>



Ref No.	Part Number	Part Name	Req	Remarks
1 2	3900677 4939588	Lubricating Oil Pump  OPTION LP9065  Screw, Hexagon Head Cap Pump, Lubricating Oil	4 1	Lubricating Oil Pump pump drive: Non crank concentric max HP: 305 body material: Cast iron flow rate at pump speed (GPM at RPM): 3.2 at 750 gear type: Steel HCR gear piston cooling method: Saddle or j-jet Engine Cylinders: 6 Engine Aspiration: Charge Air Cooled block oil pump cavity (mm): 21.2 CDC may use lub oil pump 3971544 in place of lub oil pump 4939588 M8 X 1.25 X 30



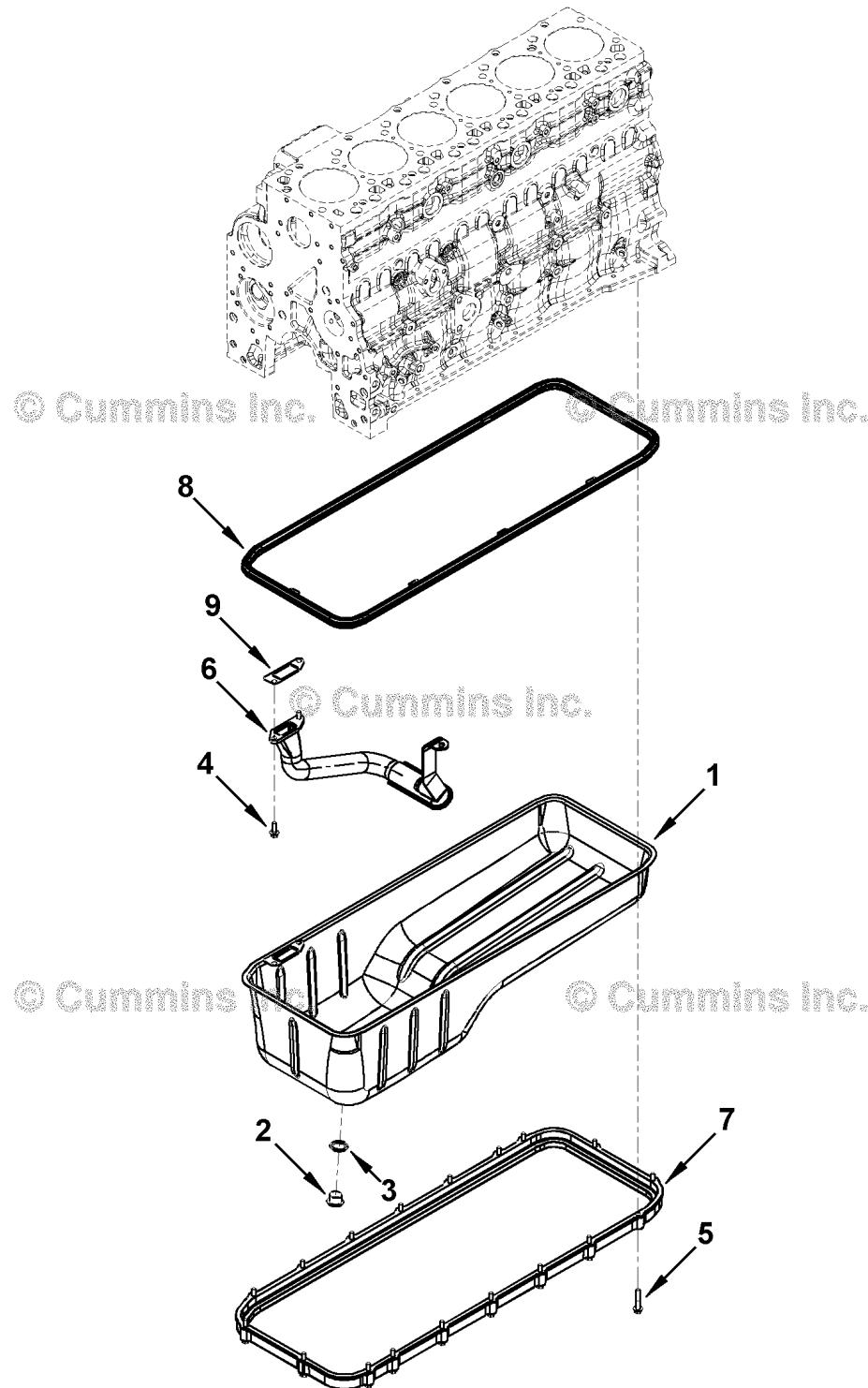
ob902zk

Group No. 07.02

**Oil Fill Arrangement**

Option No. OB9314

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Oil Fill Arrangement</b>		
		<b>OPTION OB9314</b>		
1	101322	Cap, Filler	1	Oil Fill Arrangement
2	3901249	Screw, Hex Flange Head Cap	2	Engine Family: "B" Series
3	3905401	Plug, Expansion	1	Fuel Tube Supplier: Cummins
4	3906696	Seal, Rectangular Ring	2	Oil Fill Location: Fuel Pump Side fill position from FFOB (mm): 278.00
5	3911696	Tube, Oil Filler	1	Position Vert. From crank C/L (mm): 81.01
				Position Horiz. From Crank C/L (mm): 243.50 fill
				Fill Cap Supplier: Cummins Air Compressor Comp.: Yes
				M12 X 1.75 X 25



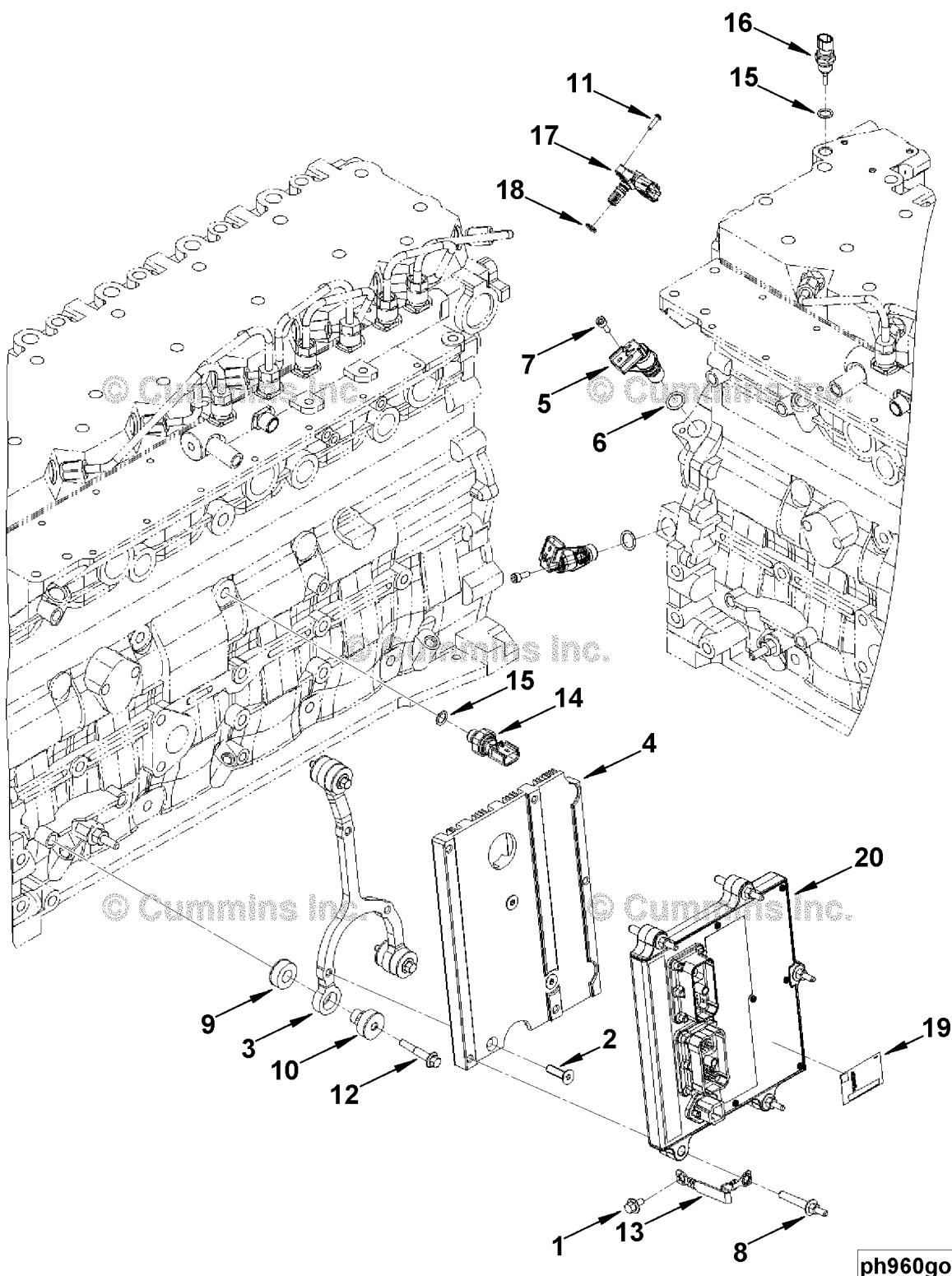
op957gh

Group No. 07.01

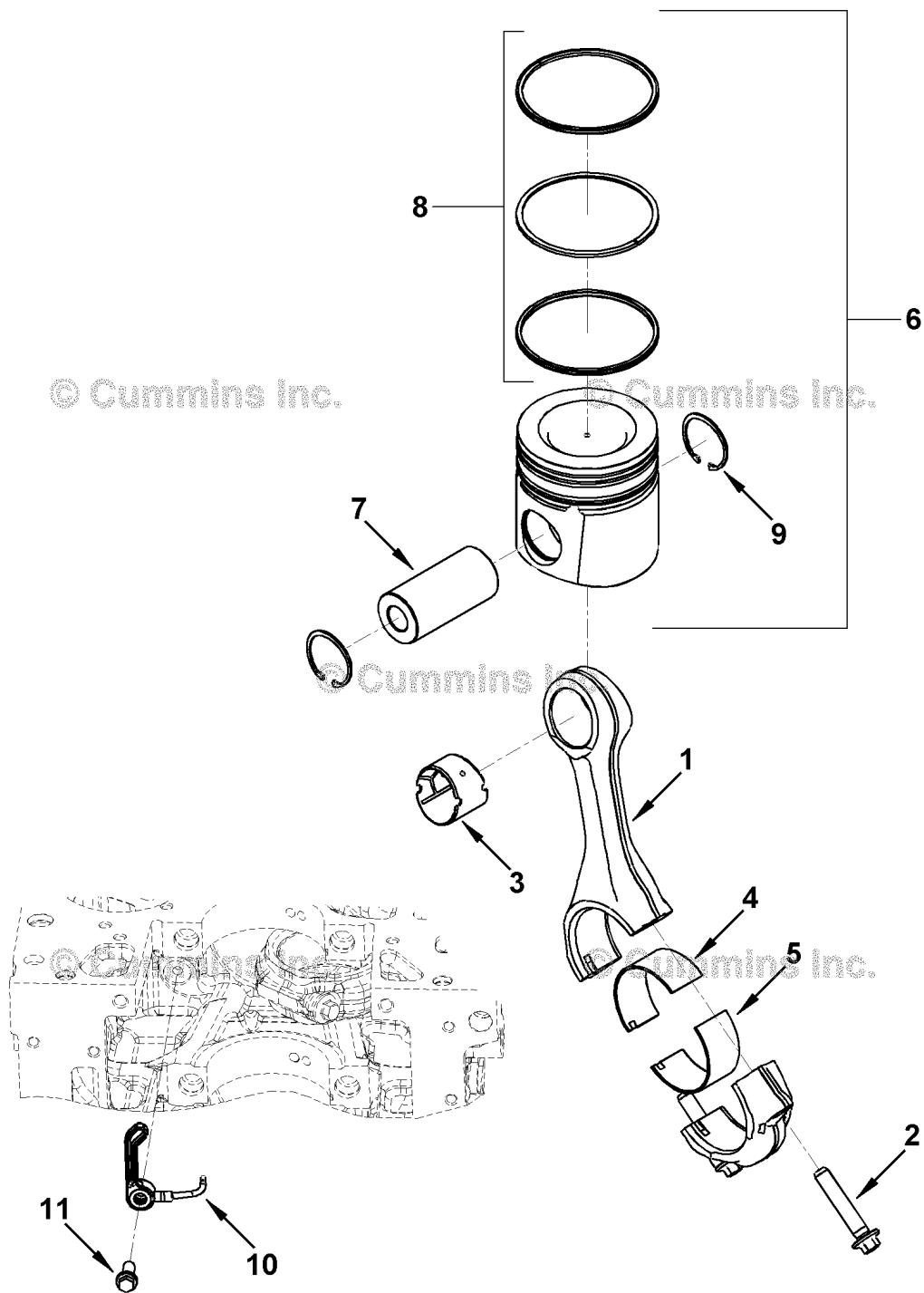
**Oil Pan**

Option No. OP9456

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Oil Pan</b>		
		<b>OPTION OP9456</b>		
				Oil Pan Design Phase: EBM 03 Engine Family: "B" Series Engine Cylinders: 6 sump location: Front oil pan material: Stamped steel pan capacity value high(qt): 18.5 (17.5 l) low (qt) 15.85 (15 l) oil pan angularity value up: 50 down: 50 side to side: 43 drain size: M22 Drain Location: Bottom heater provision: Yes heater boss size: M22X1.5 heater boss location: Fuel pump side Oil Level Sensor Provision: None Oil Level Sensor Tapping Size: None Oil Level Sensor Location: N/A block flange (width/length hole to hole): 299 x 775.4 Unique Characteristics: Isolated Oil Pan sump style: Standard oil pan type: Isolated suspended internally cast suction tube: No required oil filter medium: Stratapore suction tube flange thickness (mm): 15.0 doweled for flywheel housing: No corner pan stiffener provided: No.
1 (4898037)	4898036 (4898037)	Pan, Oil	1	
2	3282266	Pan, Oil	1	
3	3287561	Plug, Threaded	2	
4	3025806	Washer, Sealing	2	
5	3901445	Screw, Socket Head Cap	2	
6	3977790	Screw, Hex Flange Head Cap	18	M8 X 1.25 X 30 M8 X 1.25 X 45
7	4938655	Tube, Lub Oil Suction	1	
8	4934344	Adapter, Oil Pan	1	
9	4898301	Gasket, Oil Pan	1	
		Gasket, Oil Suc Connection	1	

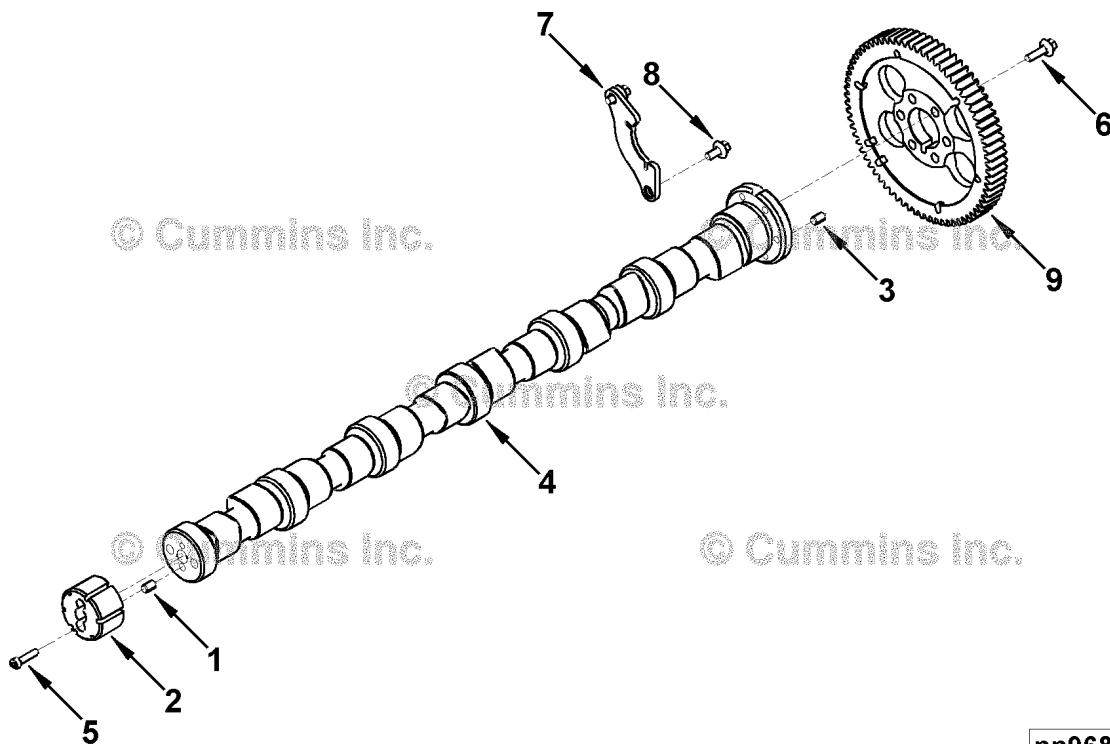


Ref No.	Part Number	Part Name	Req	Remarks
		<b>Engine Control Module</b>		
		<b>OPTION PH9248</b>		
1	3093956	Screw, Hex Flange Head Cap	1	M8 X 1.25 X 12
2	3284216	Screw, Flat Head Cap	3	
3	3977324	Bracket, Etr Cnt Module	1	
4	4931589	Support, Etr Cnt Module	1	
5	2872277	Sensor, Position	2	Cam or Crank
6	4928599	Seal, O Ring	1	
7	3906391	Screw, Socket Head Cap	2	M6 X 1.00 X 16
8	5269996	Screw, Studded Flange Cap	5	
9	3955219	Isolator, Vibration	3	
10	3955220	Isolator, Vibration	3	
11	3957849	Screw, Socket Head Cap	1	
12	3901445	Screw, Hex Flange Head Cap	3	M8 X 1.25 X 45
13	3977357	Wire, Ground	1	
14	4921517	Sensor, Pressure	1	Oil
15	4010519	Seal, O Ring	1	
16	4954905	Sensor, Temperature	1	Coolant or Oil or Fuel
15	4010519	Seal, O Ring	1	
17	4921322	Sensor, Prs Temperature	1	Intake Manifold
18	4903482	Seal, O Ring	1	
19	(4946443)	Dataplate	1	
20	4921776	Module, Electronic Control	1	Recon Equiv. 4921776 NX/RX



pp970gm

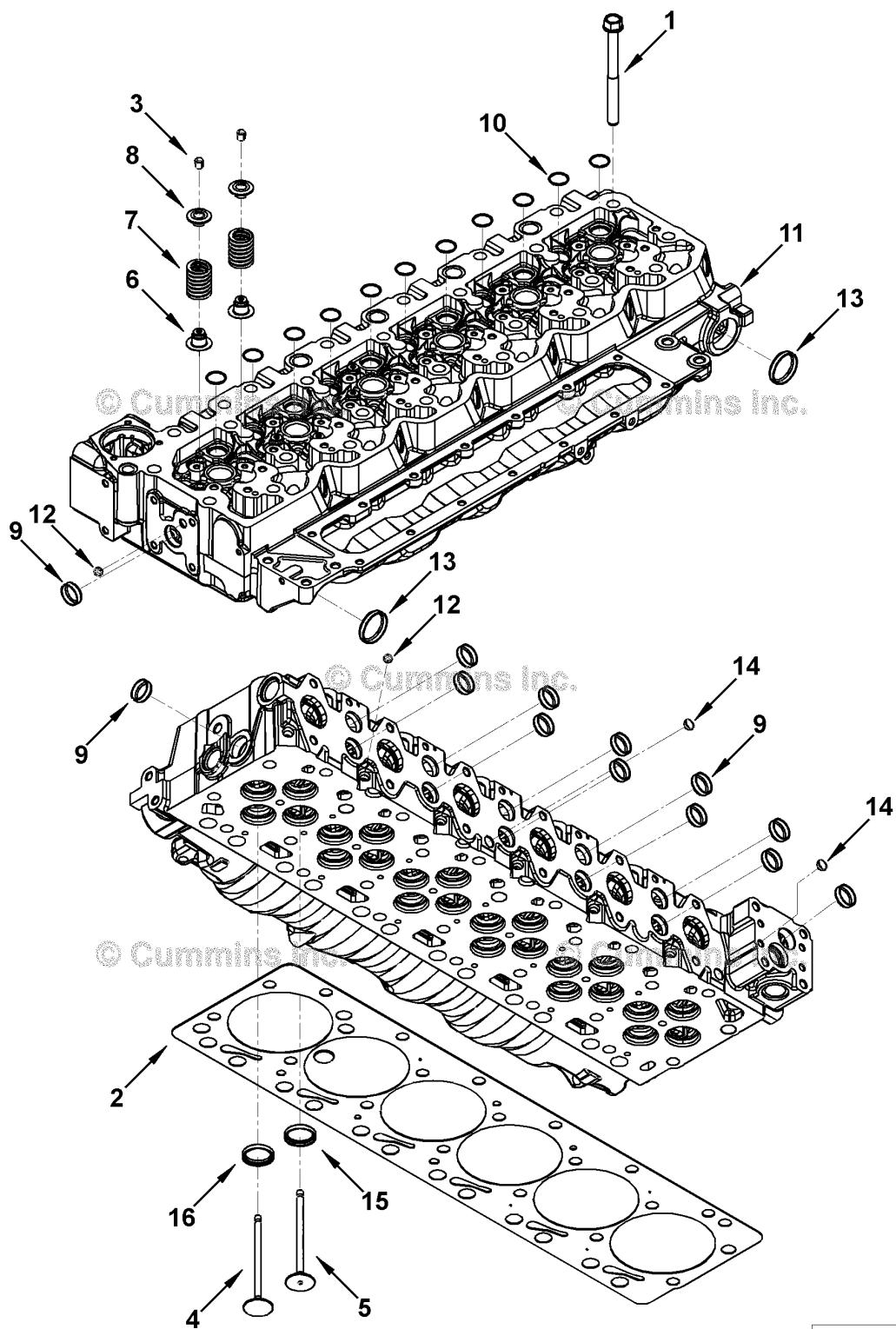
Ref No.	Part Number	Part Name	Req	Remarks
		Connecting Rod and Piston		
		OPTION PP40656		
				Connecting Rod and Piston Model Name: QSB7-G Engine Family: "B" Series CPL: 0656 Certified By: EPA ,CARB ,Eu Cylinders: 6 Engine Aspiration: Charge Air Cooled Engine Control System: BAQ Engine Application: Power Generation Engine Design Phase: Tier 3B Service Model Name: QSB7-G ECM Version: CM850 Centinel Provision: No Plants may Structure ID 21 P/N 2831474 as a Direct Replacement for 4936081 From Alternative Cyl Head European Supplier Source Code AAMSW. RMEP may use 2872395 in Place of 4929864. Optional: TEL may use Valve Spring Retainer 5271485 in Place of 3943198. Recon Equivalent 3971212 RX
1	(3971212) (3971211)	Rod, Engine Connecting Rod, Engine Connecting	6 1	
2	4891179	Screw, Connecting Rod Cap	2	
3	4891178	Bushing	1	
4	3969562	Bearing, Connecting Rod	6	Standard
5	4893693	Bearing, Connecting Rod	6	Standard
6	4955160	Kit, Engine Piston	6	
	4931888	Piston, Engine	1	Serviced as 4955160
7	4931041	Pin, Piston	1	
8	4955251	Set, Piston Ring	1	
9	3920691	Ring, Retaining	12	
10	4937308	Nozzle, Piston Cooling	6	
11	3964817	Screw, Banjo Connector	6	
6	TBD 4932530	Kit, Engine Piston Piston, Engine	A/R 1	0.50 mm Oversize 0.50 mm Oversize
4	4932375	Bearing, Connecting Rod	A/R	0.25 mm Oversize
4	4932376	Bearing, Connecting Rod	A/R	0.50 mm Oversize
4	4932377	Bearing, Connecting Rod	A/R	0.75 mm Oversize
4	4932378	Bearing, Connecting Rod	A/R	1.00 mm Oversize
5	4892795	Bearing, Connecting Rod	A/R	0.25 mm Oversize
5	4892796	Bearing, Connecting Rod	A/R	0.50 mm Oversize
5	4892797	Bearing, Connecting Rod	A/R	0.75 mm Oversize
5	4892798	Bearing, Connecting Rod	A/R	1.00 mm Oversize



pp968gs

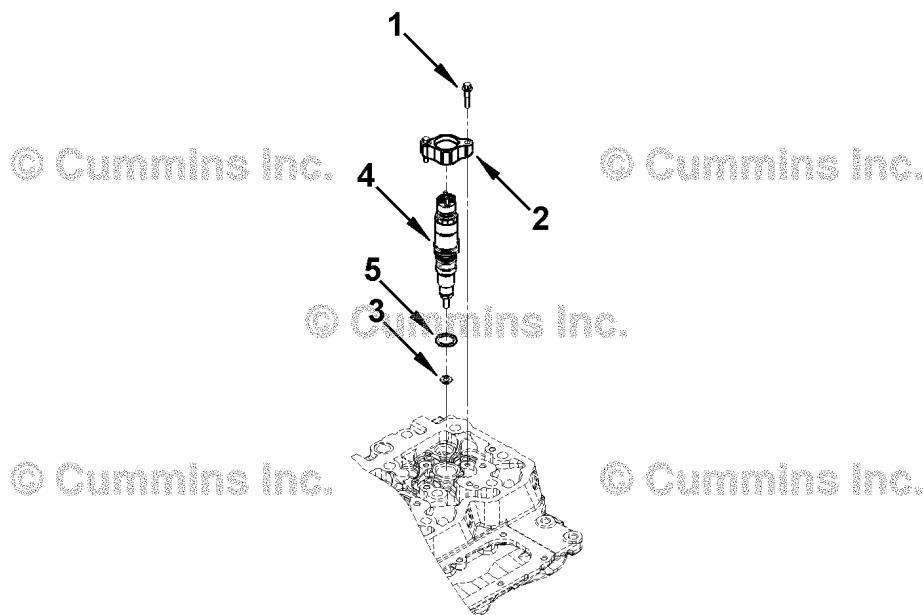
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Camshaft</b>		
		<b>OPTION PP40656</b>		
1	3954100	Camshaft	1	Camshaft Purchase Lower Level
1	3954111	Dowel, Ring	1	
2	3955069	Ring, Speed Indicator	1	
	3979506	Camshaft	1	
3	3904483	Dowel, Pin	1	
4	(3954099)	Camshaft	1	Customer to Purchase 3979506
5	4895877	Screw, Socket Head Cap	2	
3	3904483	Dowel, Pin	1	
6	3093730	Screw, Hex Flange Head Cap	6	
7	5258931	Support, Camshaft Thrust	1	
8	3925883	Screw, Hex Flange Head Cap	2	M8 X 1.25 X 16
9	3955152	Gear, Camshaft	1	

## NOTES



pp972gn

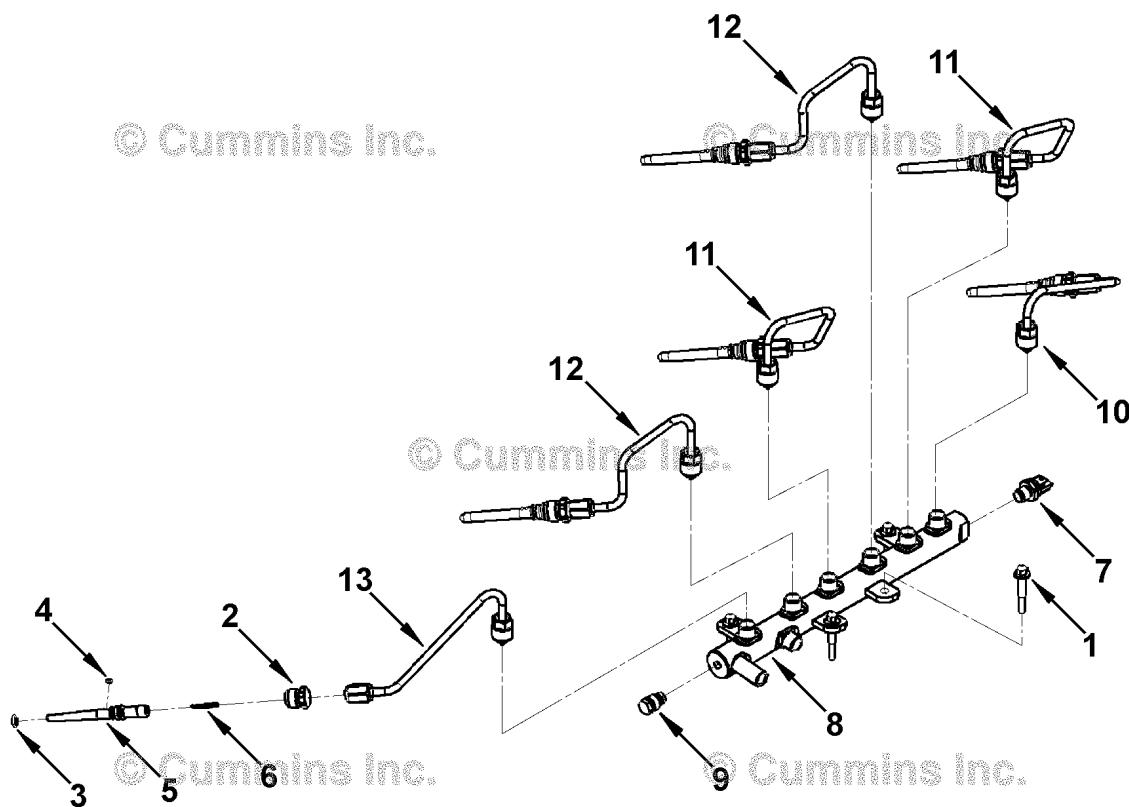
Ref No.	Part Number	Part Name	Req	Remarks
		<b>Cylinder Head</b>		
		<b>OPTION PP40656</b>		
1	3927063	Screw, Hex Flange Head Cap	26	
2	4932210	Gasket, Cylinder Head	1	
3	3977226	Head, Cylinder	1	
3	3802967	Kit, Exhaust Valve	12	
3	3940123	Collet, Valve	2	
4	(3940734)	Valve, Exhaust	1	
	3802924	Kit, Intake Valve	12	
3	3940123	Collet, Valve	2	
5	(3940735)	Valve, Intake	1	
6	3955393	Seal, Valve Stem	1	
6	3955393	Seal, Valve Stem	12	
7	4936080	Spring, Valve	24	
8	3943198	Retainer, Valve Spring	24	
	3977225	Head, Cylinder	1	
9	3914035	Plug, Expansion	13	
10	3920706	Plug, Expansion	11	
11	(3977222)	Head, Cylinder	1	
12	3007632	Plug, Expansion	7	
13	3945094	Plug, Expansion	2	
14	3945095	Plug, Expansion	2	
15	3943449	Insert, Valve	12	Standard
16	3943450	Insert, Valve	12	Standard
		<b>Service Parts</b>		
15	3939719	Insert, Valve	A/R	0.127 mm Oversize
15	3939720	Insert, Valve	A/R	0.254 mm Oversize
15	3939721	Insert, Valve	A/R	0.508 mm Oversize
16	3939723	Insert, Valve	A/R	0.127 mm Oversize
16	3939724	Insert, Valve	A/R	0.254 mm Oversize
16	3939725	Insert, Valve	A/R	0.508 mm Oversize



pp968gk

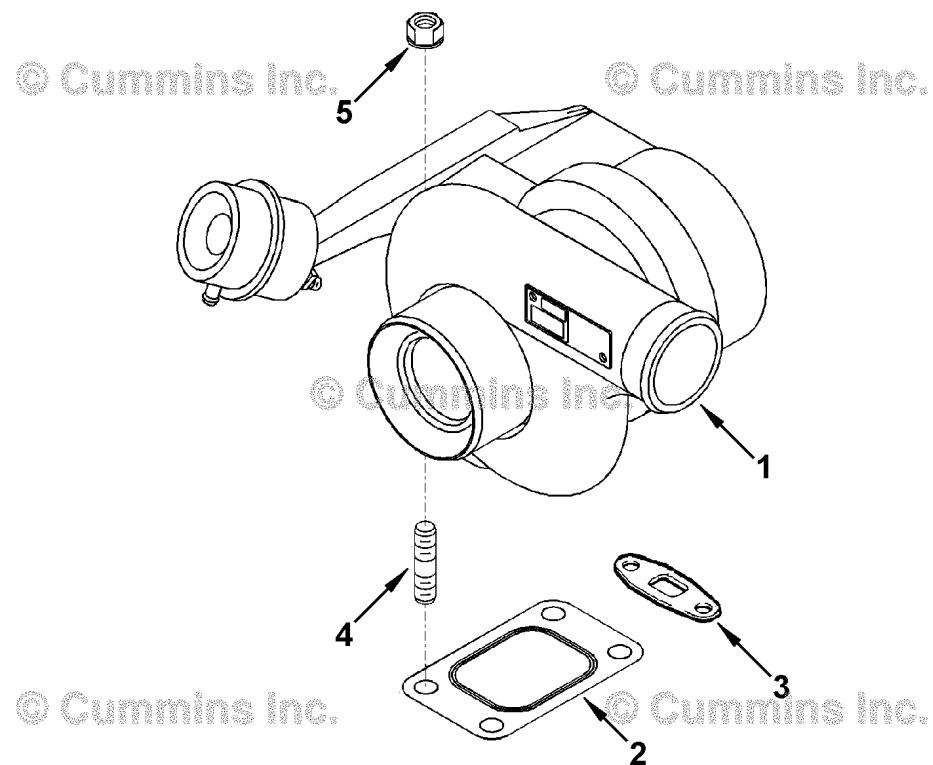
Ref No.	Part Number	Part Name	Req	Remarks
1 2 4 3 5	3900628 3976370 (5263262) 3976371 3977393	Injector  <b>OPTION PP40656</b> Screw, Hex Flange Head Cap Clamp, Injector Injector Seal, Injector Seal, O Ring	12 6 6 1 1	Injector M6 X 1.00 X 30  Recon Equivalent 5263262 NX

## NOTES



pp967gv

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Injector Plumbing</b>		
		<b>OPTION PP40656</b>		
1	3900633	Screw, Hex Flange Head Cap	4	Injector Plumbing
2	5264181	Retainer, Inj Ful Sup Cnr	6	M8 X 1.25 X 50
	2872395	Connector, Inj Fuel Supply	6	
3	4062328	Seal, O Ring	1	
	(2872394)	Connector, Inj Fuel Supply	1	
4	4928587	Key, Nonrocking	1	
5	(2872393)	Connector, Inj Fuel Supply	1	
6	(4903218)	Filter, Fuel	1	
	3977530	Manifold, Fuel	1	
7	5260246	Sensor, Pressure	1	Fuel
8	(3978448)	Manifold, Fuel	1	
9	3974093	Valve, Pressure Relief	1	
10	3978036	Tube, Injector Fuel Supply	1	#6 Cylinder
11	3978034	Tube, Injector Fuel Supply	2	#4 and #5 Cylinder
12	3978032	Tube, Injector Fuel Supply	2	#2 and #3 Cylinder
13	3978031	Tube, Injector Fuel Supply	1	#1 Cylinder



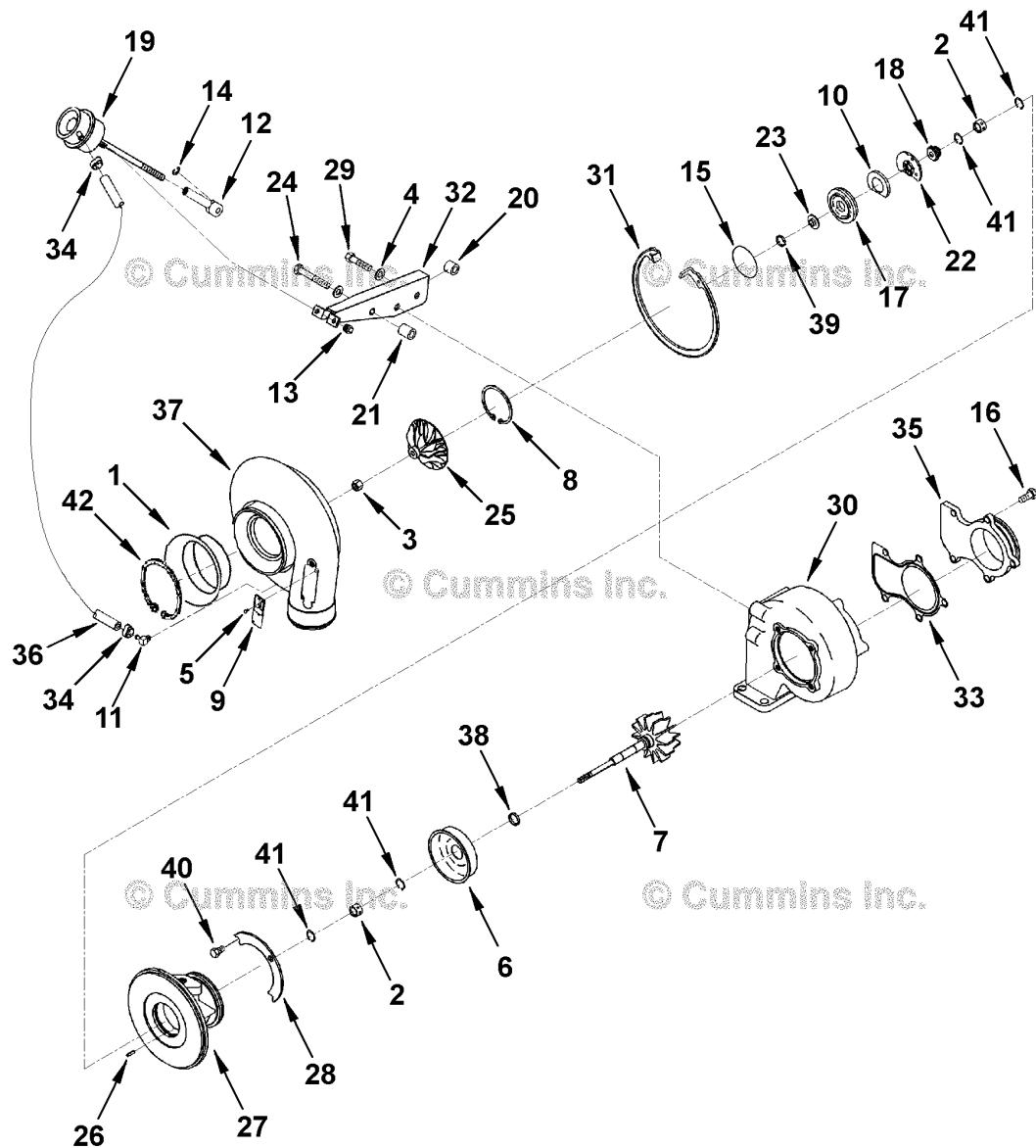
pp963gd

Group No. 10.05

**Turbocharger**

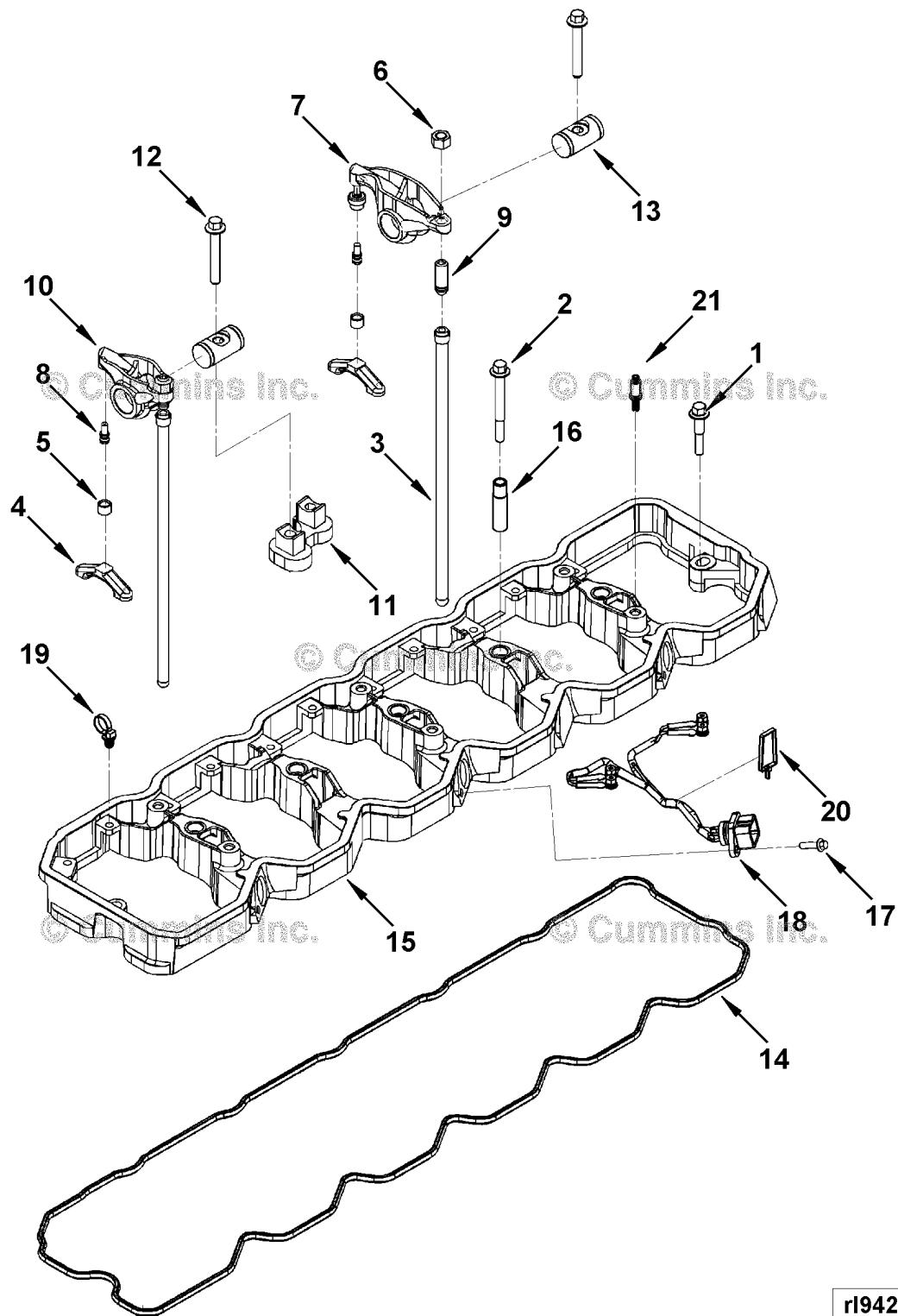
Option No. PP99009

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Turbocharger</b>		
		<b>OPTION PP99009</b>		
1	4955695 (4042810)	Kit.Turbocharger	1	Turbocharger Exhaust Outlet Location: HMFO x=-181 y=562 z=-205.4 base ID17 turbo: 4042809
1	1 (4046398)	Turbocharger	1	Turbocharger Type: Wastegate wastegate pressure setting (BAR): 2.38
2	3949530	Turbocharger	1	Turbocharger model: HX35 w fixed CPR outlet orientation (deg): 180 CPR angle (shipping deg): 340 Turbine angle (deg): 0
3	(4931365)	Gasket, Turbocharger	1	Engine Aspiration: Charged Air Cooled heat shield provision: No
4	3818823	Gasket, Oil Drain	4	
5	3818824	Stud	4	Serviced as 4955695
		Nut, Hexagon Flange	4	Purchase 5264568 M10 X 1.5-6G Both Ends
			4	M10 X 1.50



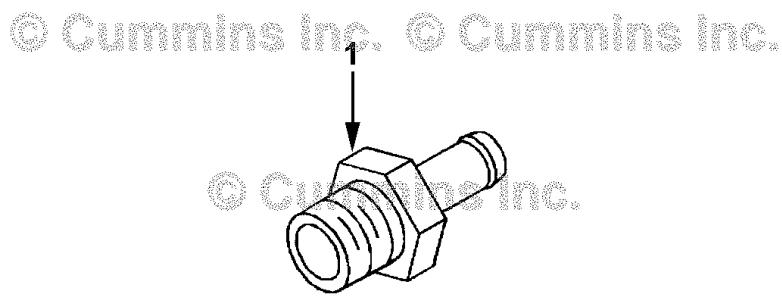
pp975gc

Ref No.	Part Number	Part Name	Req	Remarks
		Turbocharger		
		OPTION PP99009		
1	4955695 (4042810) (3532427)	Kit.Turbocharger	1	Turbocharger
2	3503100	Turbocharger	1	Serviced as 4955695
3	3596402	Baffle, Turbocharger Noise	1	
4	3504967	Bearing, Turbocharger	2	
5	3519163	Nut, Lock	1	
6	3519302	Washer, Plain	3	
7	3519336	Screw, Drive	2	
8	3527566	Shield, Turbocharger Heat	1	
9	(3527619)	Shaft & Wheel	1	
10	3528104	Ring, Retaining	1	
11	3528121	Dataplate	1	
12	(3528177)	Baffle, Oil	1	
13	3592050	Coupling, Elbow Hose	1	
14	3528221	End, Adjusting Link	1	
15	3528933	Nut, Hexagon Flange	2	
16	3530556	Ring, Retaining	1	
17	3530923	Seal, O Ring	1	
18	3530924	Screw, Hexagon Head Set	5	M8 X 1.25 X 20
19	(3598484)	Plate, Oil Seal	1	
20	3532195	Slinger, Oil	1	
21	3532196	Actuator, Turbocharger	1	
22	3595651	Spacer, Mounting	3	
23	3532217	Spacer, Mounting	1	
24	3539209	Bearing, Tur Thrust	1	
25	(4039432)	Collar, Thrust	1	
26	3522597	Screw, Hexagon Head Set	1	
27	(4038197)	Impeller, Tur Compressor	1	
28	3534309	Pin, Roll	1	
29	3534291	Housing, Tur Bearing	1	
30	3529882	Plate, Clamping	2	
31	3533163	Screw, Hexagon Head Set	2	
32	(4041846)	Housing, Turbine	1	
33	3535001	Ring, Retaining	1	
34	3535215	Bracket, Actuator	1	
35	3527759	Gasket, Adapter	1	
36	(4046378)	Clamp, Hose	2	
37	(4040191)	Connection, Adapter	1	
38	3756754	Hose, Plain	1	
39	3758848	Housing, Compressor	1	
40	3759917	Seal, Split Ring	1	
41	3762259	Seal, Split Ring	1	
42	3531238	Screw, Hexagon Head Set	4	M8 X 1.25 X 12
		Ring, Retaining	4	
		Ring, Retaining	1	



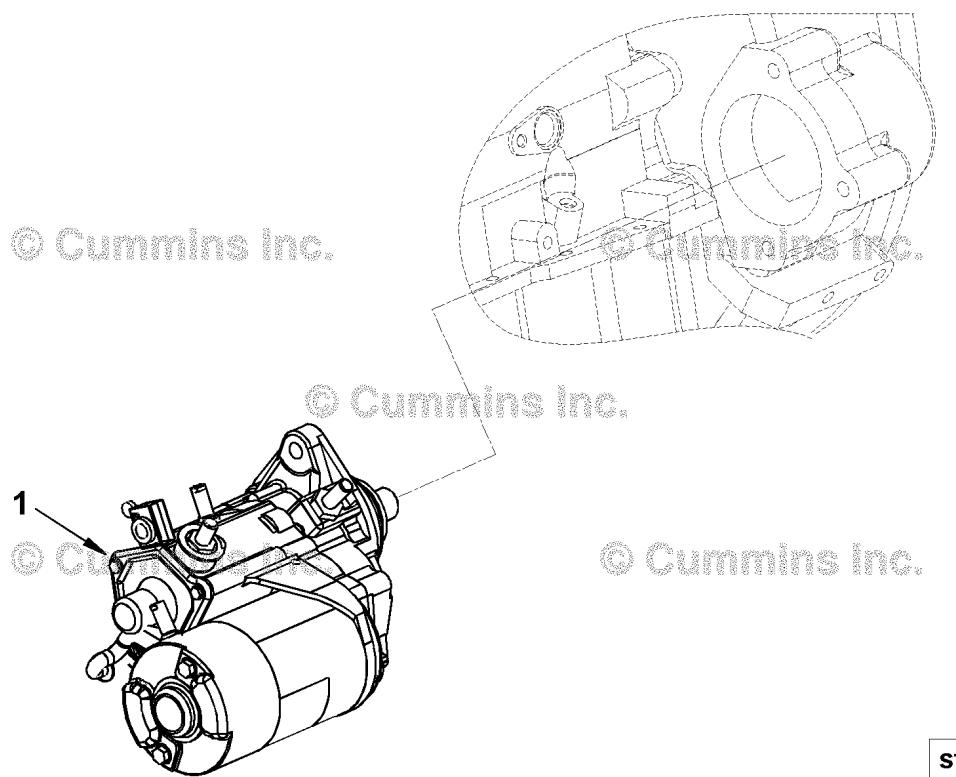
rl942gq

Ref No.	Part Number	Part Name	Req	Remarks
		Rocker Lever		
		OPTION RL9765		
1	3900633	Screw, Hex Flange Head Cap	2	
2	3903096	Screw, Hex Flange Head Cap	5	
3	3941253	Rod, Push	12	
4	3943626	Crosshead, Valve	12	
	4995602	Assembly, Rocker Lever	6	
	4995603	Lever, Rocker	1	
5	(4994198)	Socket, Rocker Lever	1	
	(4995605)	Lever, Rocker	1	
6	3927692	Nut, Heavy Hexagon	1	
7	3941928	Lever, Rocker	1	Exhaust
8	(4994197)	Ball, Rocker Lever	1	
9	3959128	Screw, Rkr Lever Adjusting	1	
	4995604	Lever, Rocker	1	
5	(4994198)	Socket, Rocker Lever	1	
	(4995606)	Lever, Rocker	1	
6	3927692	Nut, Heavy Hexagon	1	
8	(4994197)	Ball, Rocker Lever	1	
9	3959128	Screw, Rkr Lever Adjusting	1	
10	(3941927)	Lever, Rocker	1	Intake
11	3964908	Support, Rocker Lever	1	
12	3990127	Screw, Hex Flange Head Cap	2	
13	4928699	Shaft, Rocker Lever	2	
	4934573	Housing, Rocker Lever	1	
14	4899231	Gasket, Rkr Lever Housing	1	
	4938657	Housing, Rocker Lever	1	
15	(4938658)	Housing, Rocker Lever	1	
16	(4938676)	Sleeve	5	
17	3913638	Screw, Hex Flange Head Cap	3	M6 X 1.00 X 16
18	3287699	Harness, Wiring	3	
19	3287727	Clip, Wire Retaining	6	
20	4890404	Clip, Wire Retaining	3	
21	4896991	Stud	6	

**rp950gd**

Ref No.	Part Number	Part Name	Req	Remarks
1	3943670	<b>Engine Coolant Vent</b>  <b>OPTION RP9046</b>  Fitting, Orifice	1	MR - Engine Coolant Vent Vent Provision Type: Beaded Hose Engine Interface: 1/4 inch NPTF OEM Interface Connection Diameter (mm): 3.18 OEM Interface Connection Diameter (mm): 9.52 OEM Interface Connection Clamping Surface (mm): 15.75 Centerline of Engine to OEM Interface (mm): -76 Centerline of Crank to OEM Interface (mm): 429 Front Face of Block to OEM Interface (mm): -156.5

## NOTES

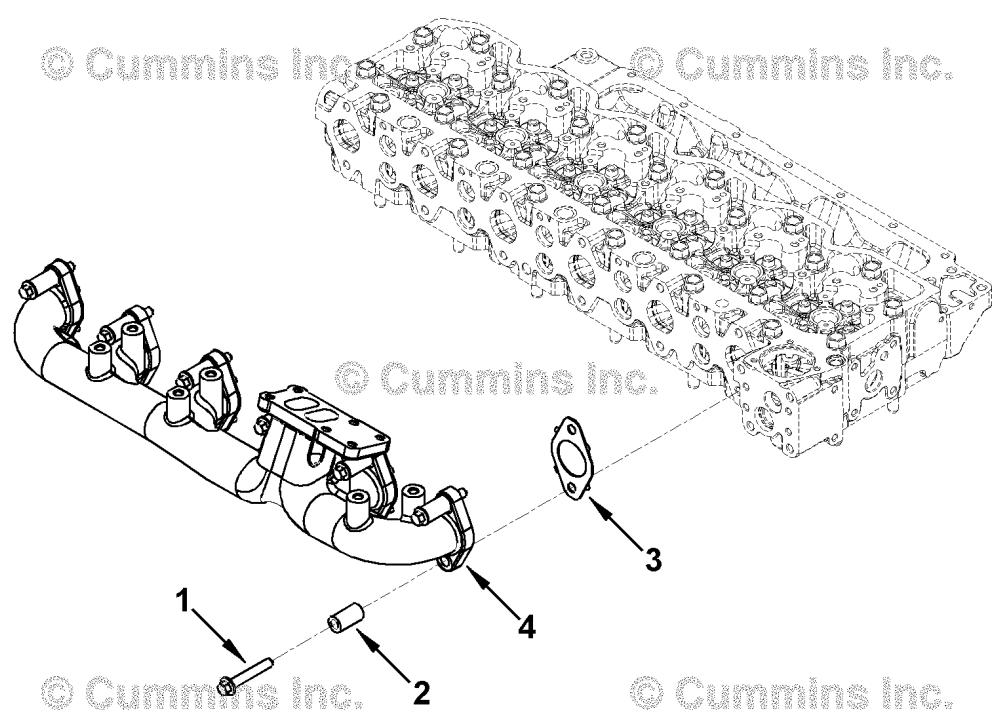
**st900zu**

Group No. 13.05

**Starting Motor**

Option No. ST9391

Ref No.	Part Number	Part Name	Req	Remarks
1	3864298	<b>Starting Motor</b> <b>OPTION ST9391</b> Motor, Starting	1	Starting Motor Pinion Diametral Pitch: 8/10 Pinion Gear Outside Diameter (mm): 40.5 Pinion Gear Offset (mm): 3.2 Pinion Drive Type: Offset Mounting Flange Type: SAE #1, 2 Bolt 180 Frame Size Diameter: 90 mm Pilot Diameter: 88.9 mm Starter Motor Length: 221.5 mm Starter Motor Engine Mounted Angle (Deg): 60 (+/-15) Sealing Provision: Wet Supply Method: Mounted Removal Length: 74.5 Manufacturer: Denso Model: R4.5 Voltage: 24 KW Rating: 3.7 Nameplate Brand: Denso Unique Characteristics: Jump Start Protection



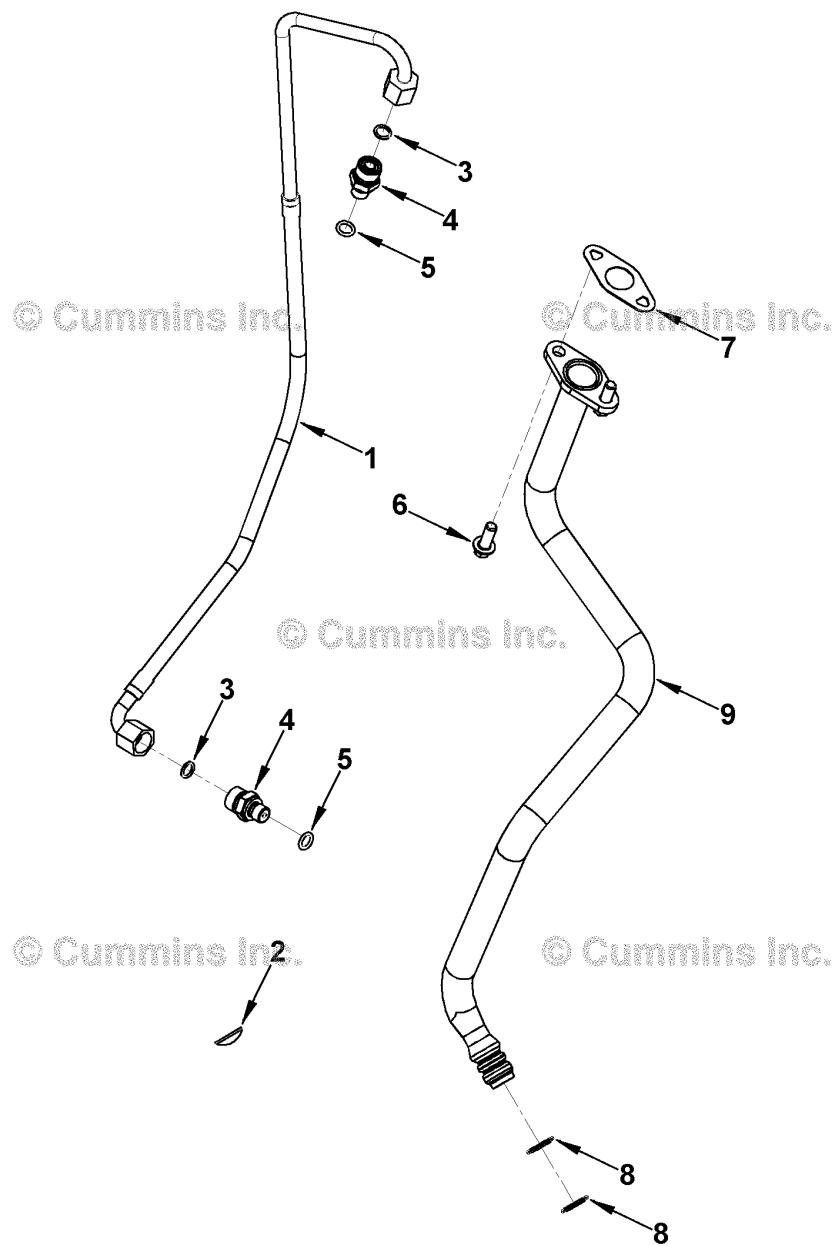
tb971gi

Group No. 10.06.1

**Turbocharger Arrangement**

Option No. TB91323

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Turbocharger Arrangement</b>		
		<b>OPTION TB91323</b>		
1	3944593	Screw, Hex Flange Head Cap	12	Turbocharger Arrangement engine configuration: 6B Exh Outlet Location: HMFO Exh Horiz CCL (mm): -181 Exh Vert From CCL (mm): 562 Turbocharger Exhaust Loc From FFOB (mm): -205.4 Aspiration: Charge Air Cooled Turbocharger Type: Wastegate Compressor Outlet Configuration: Half Marmon Cpr Outlet Angle on Engine (deg): 180 Exhaust Outlet Configuration: Half Marmon Exhaust Manifold Studs: None block drain boss: Front Base Turbo ID17 4042809 M10 X 1.5 X 65
2	3945252	Spacer, Mounting	12	
3	5266422	Gasket, Exhaust Manifold	6	
4	3976789	Manifold, Exhaust	1	



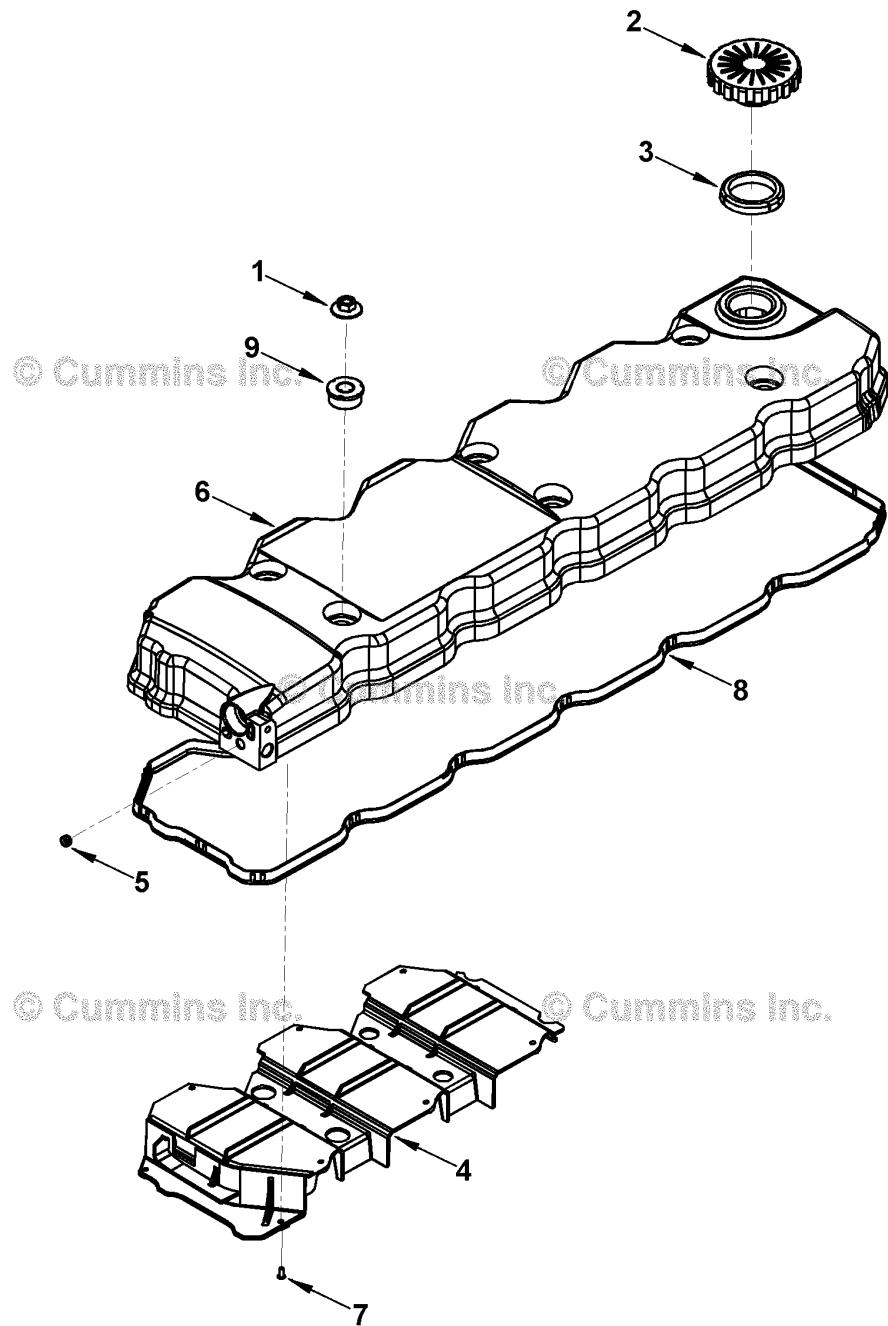
tp960gq

Group No. 10.06.2

**Turbocharger Plumbing**

Option No. TP97325

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Turbocharger Plumbing</b>		
		<b>OPTION TP97325</b>		
1	3976464	Hose, Flexible	1	
2	3920706	Plug, Expansion	1	
	4940183	Union, Male	1	
3	3678603	Seal, O Ring	1	
4	(4940182)	Union, Male	1	
5	3922794	Seal, O Ring	1	
6	3900630	Screw, Hex Flange Head Cap	2	M8 X 1.25 X 20
7	(4931365)	Gasket, Oil Drain	1	Purchase 5264568
	3977158	Connection, Turbo Oil Drai	1	
8	3928624	Seal, O Ring	2	
9	(3978945)	Connection, Tur Oil Drain	1	



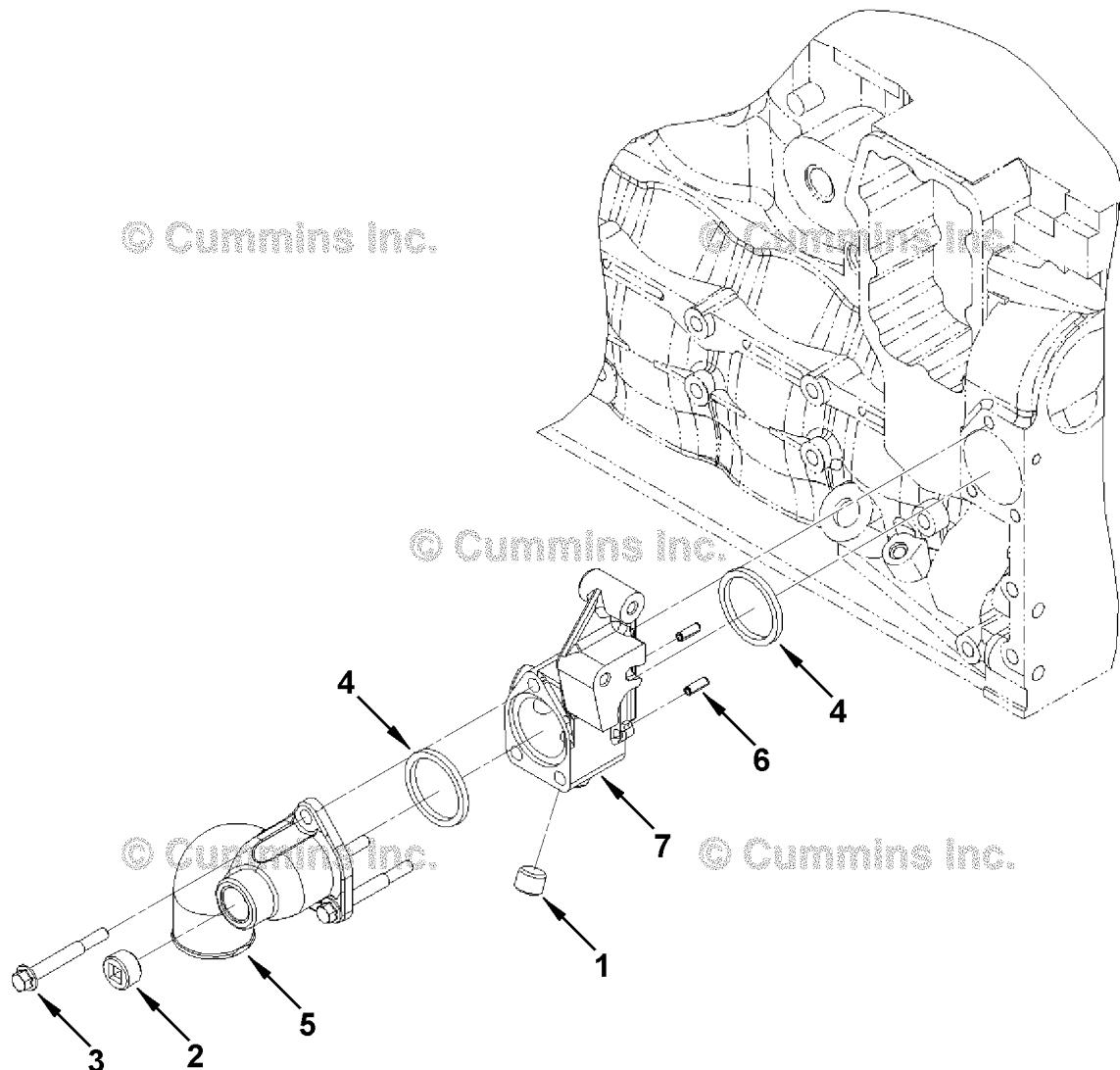
vc955gq

Group No. 03.01.1

**Valve Cover Arrangement**

Option No. VC9304

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Valve Cover Arrangement</b>		
		<b>OPTION VC9304</b>		
1	4893936 3976167	Nut, Hexagon Flange Cover, Valve	6 1	Valve Cover Arrangement compression brake compatible: No
2	4895459 (4895460)	Cap, Filler	1	Engine Family: "B" Series
3	4895461 3968862	Cap, Filler	1	Design Phase: Tier 3
4	4898648 2831347	Gasket, Filler Cap Cover, Valve	1 1	Cylinders: 6
5	3945095	Baffle, Breather	1	Fill Location: Front
6	(2831325)	Cover, Valve	1	Integral Breather: Yes.
7	(4899188)	Rivet	8	
8	4899226	Gasket, Valve Cover	1	
9	4899239	Isolator, Noise	6	



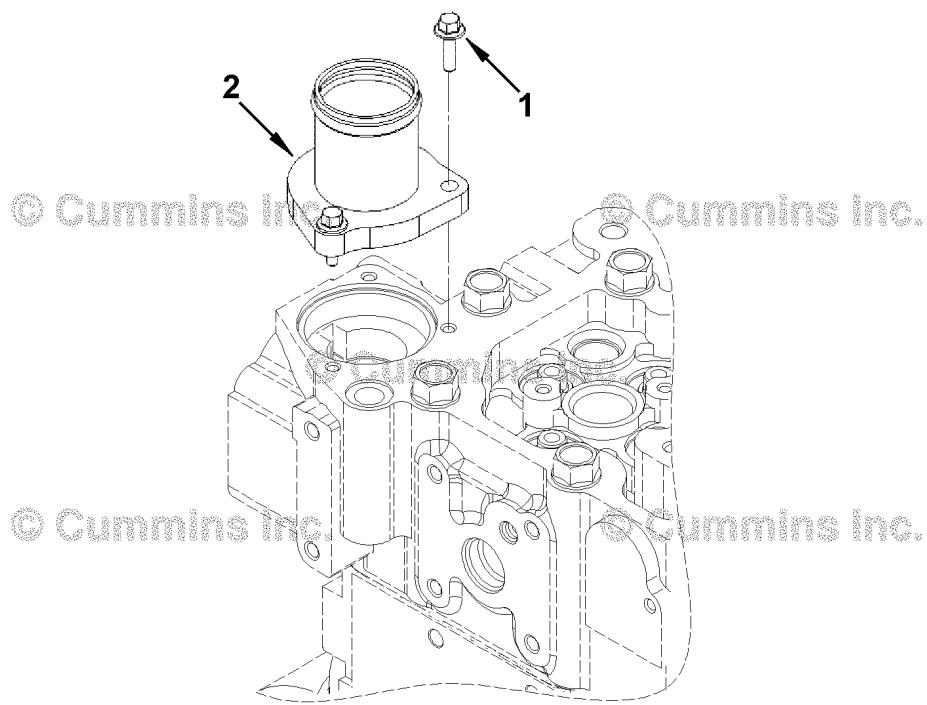
wi900zw

Group No. 08.07.1

**Water Inlet Connection**

Option No. WI9177

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Water Inlet Connection</b>		
		<b>OPTION WI9177</b>		
1	4931643	Plug, Pipe	1	Water Inlet Connection
2	4933532	Plug, Pipe	2	Engine Family: "B" Series
3	3900679	Screw, Hex Flange Head Cap	3	Connection Outside Diameter (mm): 58.0
4	4983908	Seal, Rectangular Ring	2	Connection Type: Beaded
5	3943149	Connection, Water Inlet	1	Connection Location: Vertical Down from engine centerline (mm): -277.0 from crank centerline (mm): 38.0 from front face of block (mm): -97.0 mounting for belt tensioner: Yes
	3943549	Connection, Water Inlet	1	Provision For Alternator Brace: Yes tensioner pivot location (mm): 1: X = - 227.0, y = 195.0
6	131584	Pin, Roll	2	ER plumbing port location (mm): None pipe plug 3008468 may be used in place of 4931643
7	(4980267)	Connection, Water Inlet	1	Pipe plug 3008469 may be used in place of 4933532.



wo900zc

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3901865 3943300	<b>Water Outlet Connection</b> <b>OPTION WO9172</b> Screw, Hex Flange Head Cap Connection, Water Outlet	3 1	Water Outlet Connection Connection Orientation: Vertical Conn Outlet Dia (mm): 44.4 Connection Outlet Location From Coord Syst: (Mm): X: - 103 y: +489 z: -30.5 Fan Center Capability (mm): <=444 kom may use outlet connection 4995013 in place of 5261013. M6 X 1.00 X 20

## **NOTES**

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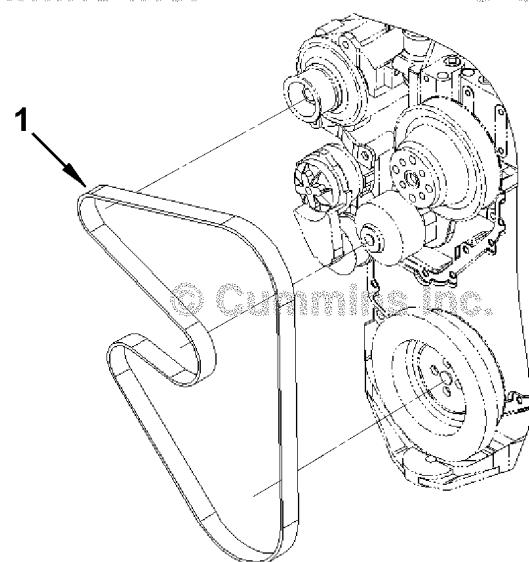
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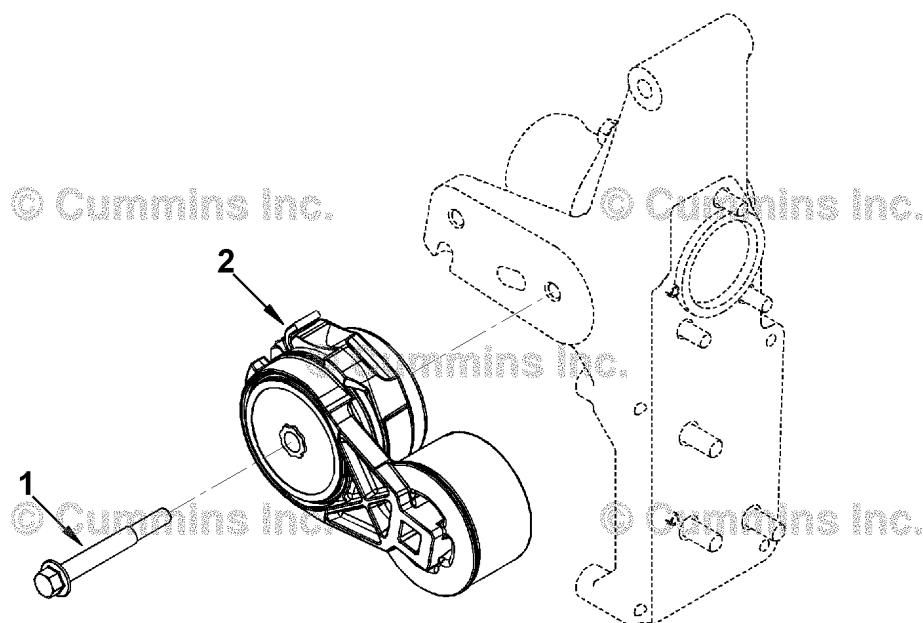
wp901zo

Group No. 09.03

**Water Pump Drive**

Option No. WP97017

Ref No.	Part Number	Part Name	Req	Remarks
1	3290051	<b>Water Pump Drive</b>  <b>OPTION WP97017</b>  Belt, V Ribbed	1	Water Pump Drive Engine Family: "B" Series Tensioner Mtg Location (mm): X: -227.0 Y: 195.0 Alternator Center (mm): X: -288.0 Y: 339.2 Alternator Pulley Diameter (mm): 61.13 Engine Fan Center X: 0 Y: 295.9 Fan Pulley Diameter (mm): 201.13 Belt Length (mm): 1803.4 Damper Pulley Effective Diameter (mm): 173.76

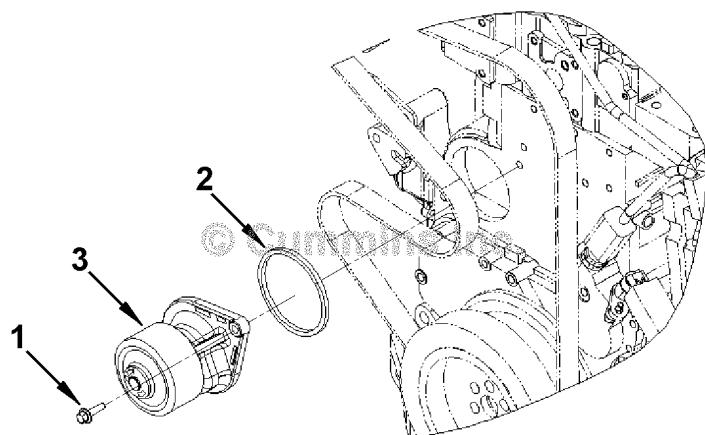
**wp900zc**

Ref No.	Part Number	Part Name	Req	Remarks
1 2	3900679 3976834	<b>Belt Tensioner</b>  <b>OPTION WP97056</b>  Screw, Hex Flange Head Cap Tensioner, Belt	1 1	Belt Tensioner Tensioner mounting location(mm): X: -227.0 y: 195.0. M10 X 1.50 X 80

## NOTES

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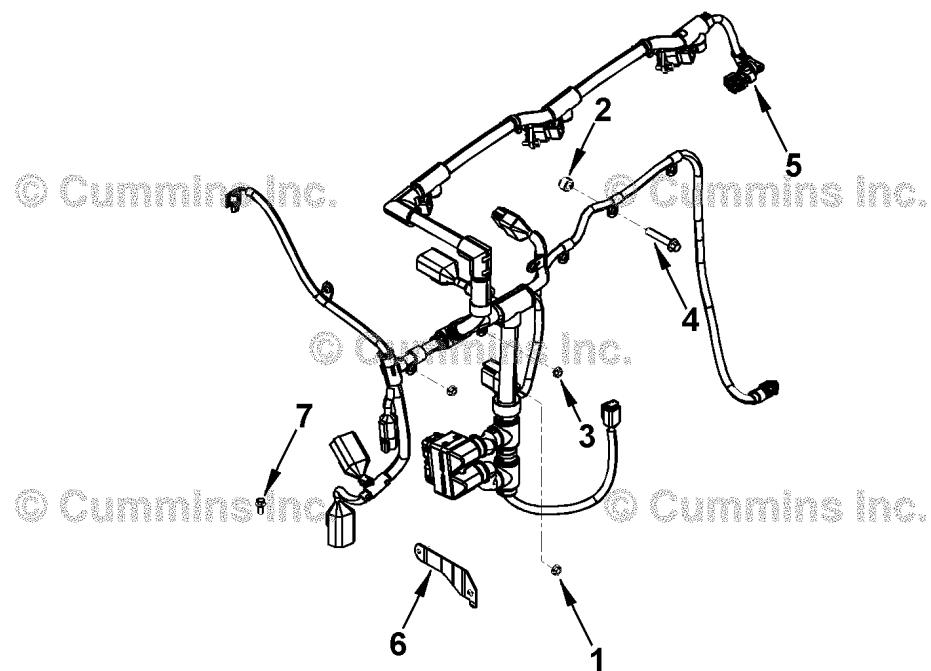
wp952ga

Group No. 08.01

**Water Pump**

Option No. WP9757

Ref No.	Part Number	Part Name	Req	Remarks
		<p><b>Water Pump</b></p> <p><b>OPTION WP9757</b></p> <p>Screw, Hex Flange Head Cap Kit, Water Pump Seal, Rectangular Ring Pump, Water</p>		<p>Water Pump Pulley Type: Standard Pulley Diameter: 88 Pulley Hardness: HRC 50 Water Pump Location From CL of Crank: -108 CL of Engine: 80 FFOB: 103.3</p> <p>2 1 1 1</p> <p>Recon Equivalent 2881804 NX Serviced as 2881804</p>

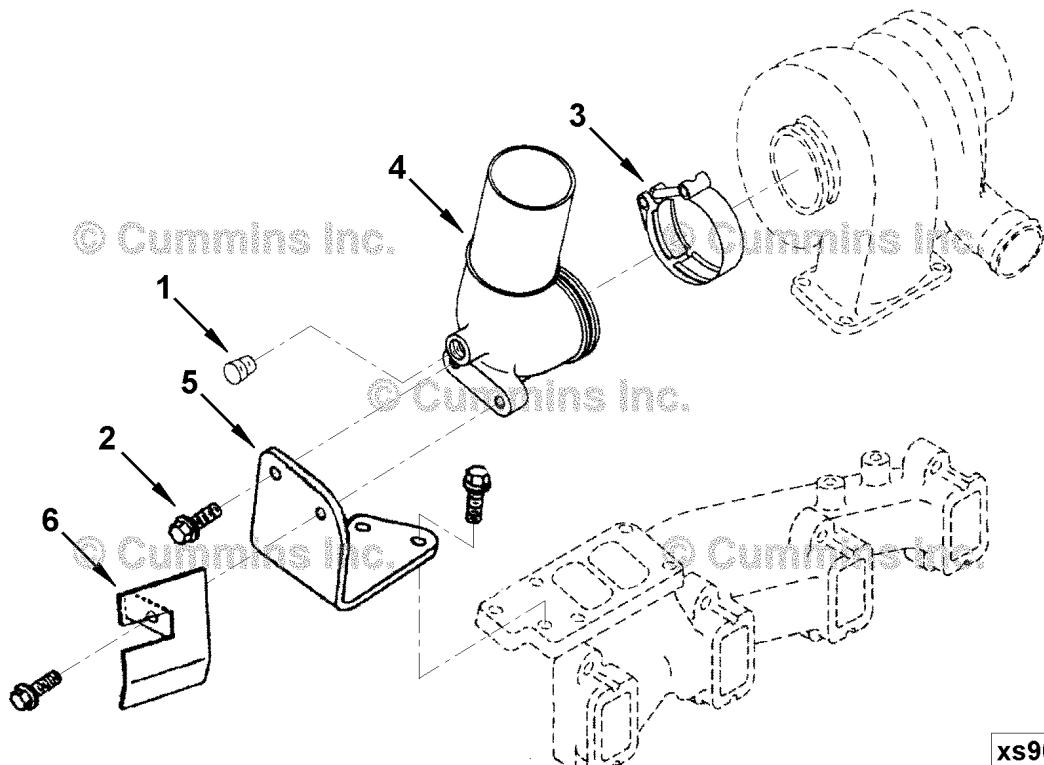


Group No. 05.06.1

**Etr Cnt Mdl Wrg Harness**

Option No. WR9430

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Etr Cnt Mdl Wrg Harness</b>		
		<b>OPTION WR9430</b>		
1	3900589	Nut, Hexagon Flange	2	Etr Cnt Mdl Wrg Harness design phase: Tier3 harness supplier: Leoni
2	3918363	Spacer, Mounting	2	Turbocharger Type: Wgt - All
3	3906216	Nut, Hexagon Flange	3	Connection Type: 90 Degree
4	3093956	Screw, Hex Flange Head Cap	1	OEM Connector Type: 50 Pin J1939
5	4944957	Harness, Etr Cnt Mdl Wrg	1	connector location: Front ECM location: On engine
6	4933023	Brace, Wiring	2	Speed Sensor Location: Front Cover
7	3900626	Screw, Hex Flange Head Cap	1	Voltage: 12 Or 24 suitable with oil pressure sensor located in front gear cover. Suitable with IC9480 and IC9454 air intake connection option.
				M8 X 1.25
				M6 X 1.00
				M8 X 1.25 X 12
				M6 X 1.00 X 12



Ref No.	Part Number	Part Name	Req	Remarks
		<b>Exhaust Outlet Connection</b>  <b>OPTION XS9336</b>		Exhaust Outlet Connection Engine Configuration: 6B Connection Configuration: 90 Degrees Connection Outside Diameter (mm): 75.95 turbine outlet flange type: Half Marmon supported on exhaust manifold: Yes Turbocharger exhaust location: HMFO from engine centerline (mm): TBD from crank centerline (mm): TBD from front face of block (mm): TBD.  1 S 910 B      1 1/4 NPT 2 3902460      4 M10 X 1.50 X 25 3 3903652      1 4 3910992      1 5 3977163      1 6 3934100      1

Group No. 17.01

# **Upper Engine Gasket Set**

Option No. 4955229

Ref No.	Part Number	Part Name	Req	Remarks
		<b>Upper Engine Gasket Set</b>		
		<b>OPTION 4955229</b>		
		Set, Upper Engine Gasket		Purchase Appropriate Exhaust Manifold Gasket Separately: 3955339, 3946275 or 2830444 as Direct Replacement.
2830409	Seal, O Ring		1	
3678603	Seal, O Ring		2	
3678925	Seal, O Ring		1	M10
3867646	Seal, O Ring		1	
3906698	Seal, Rectangular Ring		1	
3919369	Gasket, Turbocharger		1	
3922794	Seal, O Ring		2	
3928624	Seal, O Ring		2	
3947530	Gasket, Int Manifold Cover		1	
3949530	Gasket, Turbocharger		1	
3954829	Seal, Thermostat		1	
3963983	Washer, Sealing		5	
3963988	Washer, Sealing		1	
3963990	Washer, Sealing		7	
3969988	Gasket, Connection		2	
3976371	Seal, Injector		6	
3977393	Seal, O Ring		6	
4010643	Seal, O Ring		2	
4891288	Gasket, Oil Drain		2	
4896897	Gasket, Acc Drive Cover		1	
4898372	Seal, O Ring		1	
4899226	Gasket, Valve Cover		1	
4899231	Gasket, Rkr Lever Housing		1	
4932210	Gasket, Cylinder Head		1	
5264568	Gasket, Oil Drain		1	Same as 4931365, no Adhesive

Group No. 17.01

## **Set,Lower Engine Gasket**

Option No. 4955230

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