ROADTEC SB-2500eX MATERIAL TRANSFER VEHICLE



PARTS MANUAL

P.N. 243199- Rev. B
S/N. 3040 & UP
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HOW TO ORDER PARTS

THE ROADTEC PARTS DEPARTMENT NEEDS THE FOLLOWING INFORMATION TO PROCESS YOUR ORDER PROPERLY AND ACCURATELY.

1. YOUR COMPANY'S NAME AND PURCHASE ORDER NUMBER.
2. NAME AND ADDRESS OF PERSON OR PLACE TO WHOM PARTS ARE TO BE SHIPPED.
3. METHOD OF SHIPMENT. (MOTOR FREIGHT, UPS, AIR, ETC...)
4. MODEL AND SERIAL NUMBER OF THE MACHINE FOR WHICH PARTS ARE BEING ORDERED.
5. PART NUMBER, DESCRIPTION, AND QUANTITY OF PARTS.
6. THE LOCATION OF PART(S) IN THE ROADTEC PARTS MANUAL.

ONCE THE ABOVE INFORMATION HAS BEEN OBTAINED, CONTACT THE ROADTEC PARTS DEPARTMENT AT :

ROADTEC INC. / PARTS DEPARTMENT
2909 RIVERSIDE DRIVE
CHATTANOOGA, TN. 37406
MONDAY-FRIDAY 7:00AM – 8:30PM EASTERN
SATURDAY 7:00AM – 12:00PM EASTERN
PHONE : (423) 622-9202 **TOLL FREE : 1-877-266-8882**
PARTS FAX : 423-622-9072 **USED SALES FAX : 423-622-7318**

RESPONSIBILITY FOR BREAKAGE, LOSS OR DAMAGED GOODS, CEASES UPON DELIVERY OF THE MERCHANDISE TO THE TRANSPORTATION COMPANY FOR WHICH A RECEIPT IS RECEIVED SHOWING THAT THE SHIPMENT WAS ACCEPTED BY THEM IN GOOD CONDITION. IF ANY OF THE MATERIAL LISTED ON THE BILL OF LADING OR EXPRESS RECEIPT IS SHORT, BROKEN, OR DAMAGED, DO NOT ACCEPT THE SHIPMENT UNTIL THE CARRIERS AGENT MAKES A NOTATION OF THE SHORTAGE OR DAMAGE ON THE EXPENSE BILL. NOTIFY THE TRANSPORTATION COMPANY'S AGENT AT ONCE AND REQUEST AN INSPECTION.

THIS IS ABSOLUTELY NECESSARY.

IF THE AGENT DOES NOT MAKE AN INSPECTION, THEN AN AFFIDAVIT SHOULD BE MADE STATING THAT HE WAS NOTIFIED (ON THE DATE) AND FAILED TO DO THE INSPECTION. THIS AFFIDAVIT WITH OTHER PAPERS WILL PROPERLY SUPPORT YOUR CLAIM.

WARRANTY

Manufacturer (Roadtec, Inc.) warrants, commencing with the date of shipment to first end-user and for a period of 12 months thereafter or 1,000 hours of operation, whichever occurs first, all machinery and parts manufactured by Roadtec, Inc. to be free from defects in workmanship and material. **Warranty remains in force for the above time period only if all Manufacturer's operational procedures are followed and recommended maintenance is performed.** If, within such warranty period, any machinery or parts shall be proved to Manufacturer's satisfaction to be defective, it shall be repaired or replaced, at the Manufacturer's option, F.O.B. Manufacturer's warehouse. All failed parts or components must be returned to Manufacturer prepaid for inspection before credit will be issued for new parts or components.

Wear parts such as: conveyor lines, screed plates, cutter teeth, tooth holders, scraper blades, track pads, tires and conveyor belts are warranted only if found to be defective at time of shipment, but are not warranted for the warranty period against wear or abuse.

With respect to machinery, parts or accessories to Manufacturer's products which are furnished but not manufactured by Manufacturer, Manufacturer's warranty obligation shall in all respects conform and be limited to the warranty extended to Manufacturer by its supplier or, if none, to the warranties expressed herein. No warranty shall apply to machinery, parts or accessories which have been repaired or altered by others so as, in Manufacturer's judgment, to affect the same adversely or which shall have been subject to negligence, accident or improper care, installation, maintenance, storage or other than normal use or service, during or after shipment.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND MANUFACTURER SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES WHATSOEVER WITH RESPECT TO MACHINERY, PARTS, ACCESSORIES OR SERVICES MANUFACTURED OR FURNISHED BY IT OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO. UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGES, EXPENSES, LOSSES OR DELAYS HOWSOEVER CAUSED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

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ROADTEC, INC.
Chattanooga, Tennessee

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm

GENERAL INFORMATION

This parts manual contains a listing of all parts of the ROADTEC© Shuttle Buggy® Material Transfer Vehicle. A sectional index immediately follows this introduction.

This catalog is divided into Numerical sections, each section has an alphabetical table of contents of its assemblies. The pages within each section are numbered with the section number and the number of the page within the section such as 1.1 (Sect. 1, Page 1, etc). The page numbers are located bottom center of each page.

The parts shown in the illustrations are numbered and correspond to the number appearing in the REF. NO. column of the parts list immediately following the illustration. DO NOT ORDER PARTS BY THE REFERENCE NUMBERS. Each Ref. No. is followed by the ROADTEC part number for that particular part.

When ordering parts, be sure to provide the serial number of the machine for which the parts are being ordered. Specify how parts shipment is to be forwarded.(See " How To Order Parts." On the inside front cover of this catalog.)

Record the serial no. of your machine, its engine, and any other equipment in the space provided below. Our Service Department will need this information to provide you with prompt, efficient service when you order parts or optional equipment.

The warranty on this equipment appears on the inside back cover of this catalog.

MACHINE RECORD

DATE PURCHASED ____/____/____

MACHINE MODEL:
SERIAL NO.:
CATALOG NO.:
ENGINE MAKE:
SERIAL NO.:
MODEL NO.:

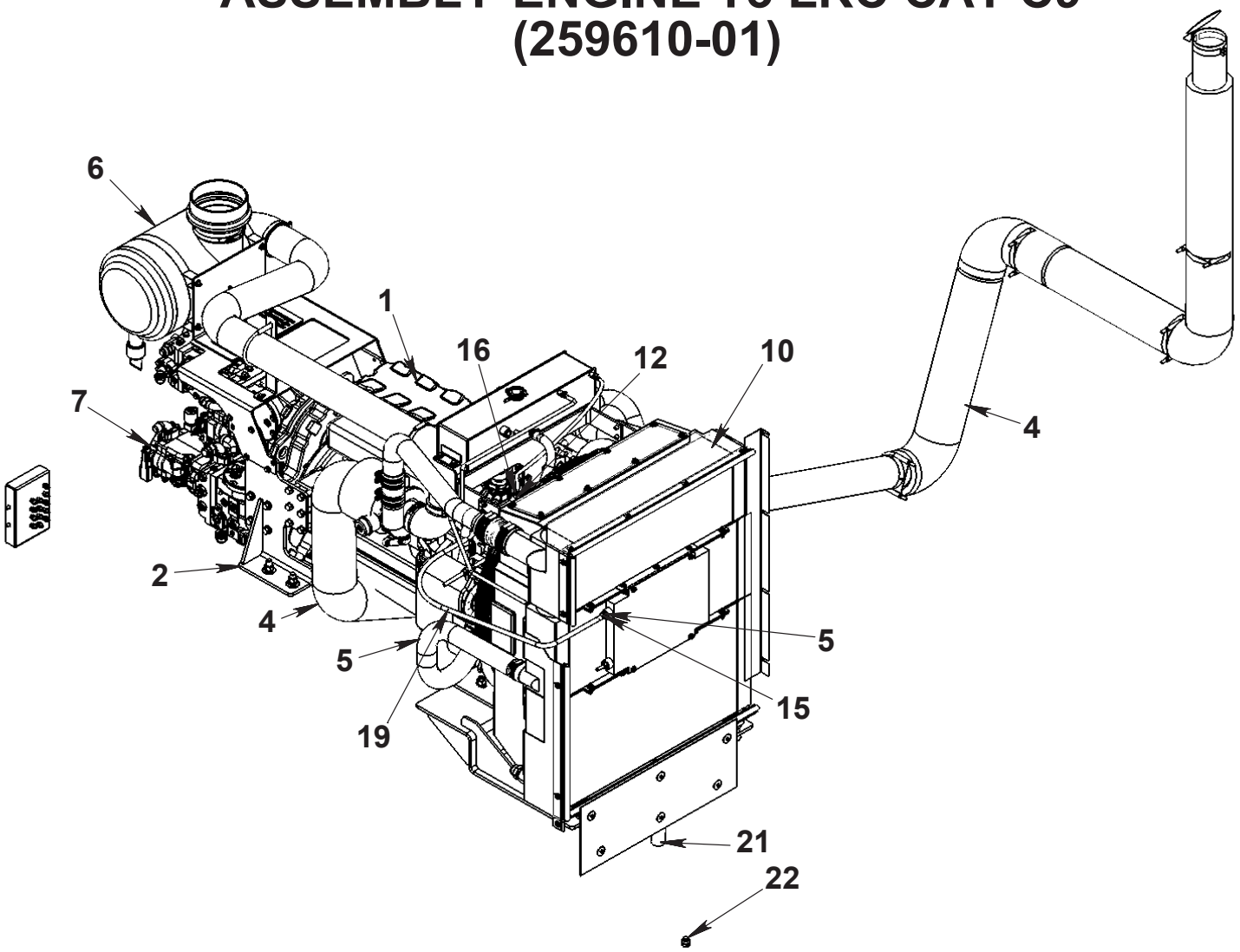
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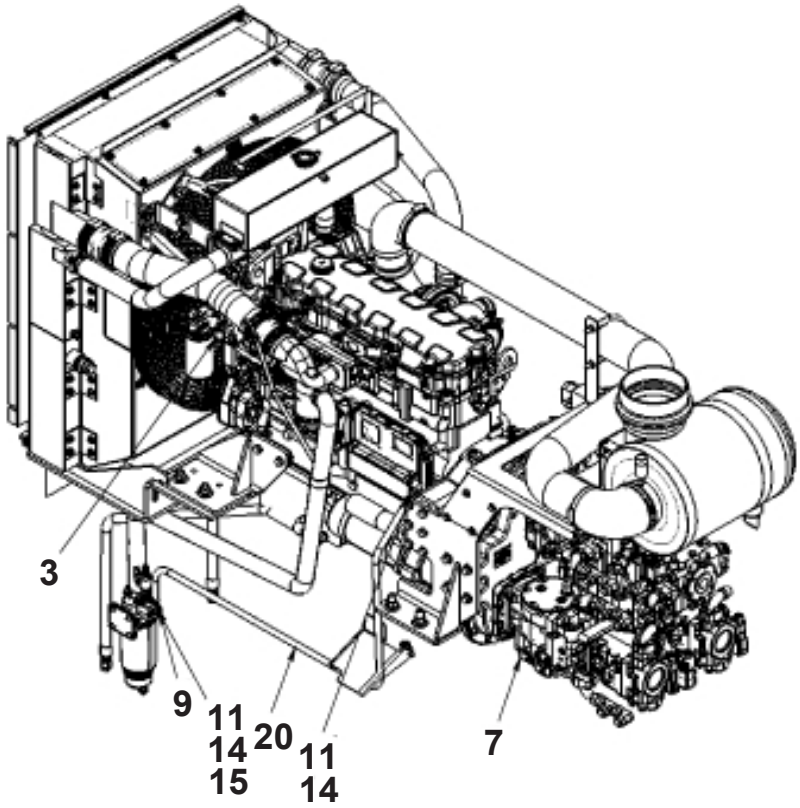
SECTION 1 : ENGINE

ASSEMBLY	PART NO.	S/N	PAGE NO.
ENGINE	259610-01	3040 & UP	1.1
ENGINE MOUNTS	253598-03		1.5
EXHAUST	249979-01		1.6
AIR INTAKE	253599-01		1.7
PUMPS	259609-01		1.9
PUMP DRIVE	246988-01		1.11
C-3 PUMP	233849-04		1.13
PROPEL PUMP	233837-04		1.15
C-1 & C-2 PUMP	99814		1.17
AUXILIARY PUMP	258637-03		1.19
PUMP TEST PORT PANEL	242325-03		1.21
COOLING PACKAGE	253625-01		1.23
COOLER SHROUD	250010-01		1.27
FUEL/WATER SEPARATOR	259617-01		1.29
MODIFICATION- PUMP PRESSURE REDUCER	236436-03		1.32
INSTRUCTIONS- FAN PUMP MAX. PRESSURE	241780-03		1.34

ASSEMBLY-ENGINE T3 LRC CAT C9
(259610-01)

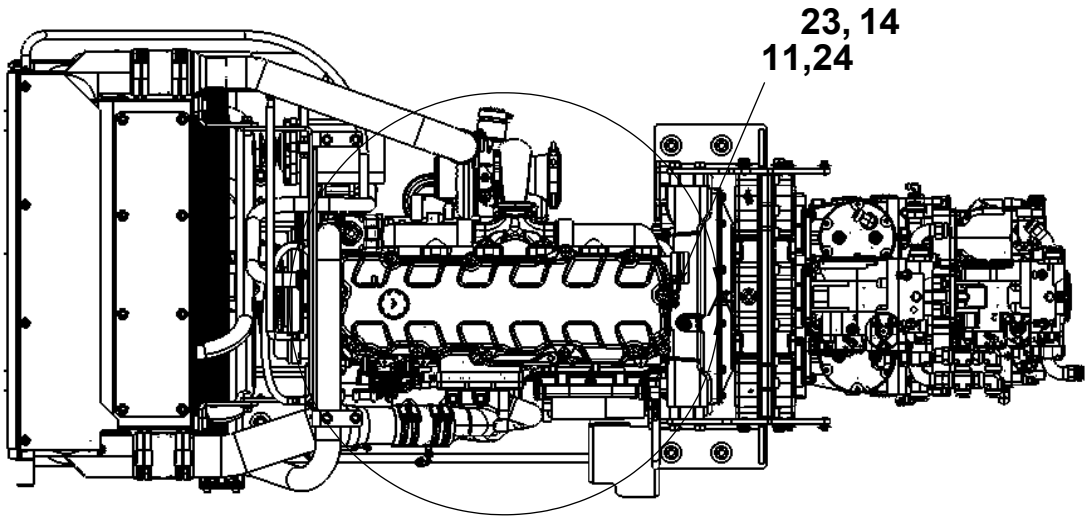
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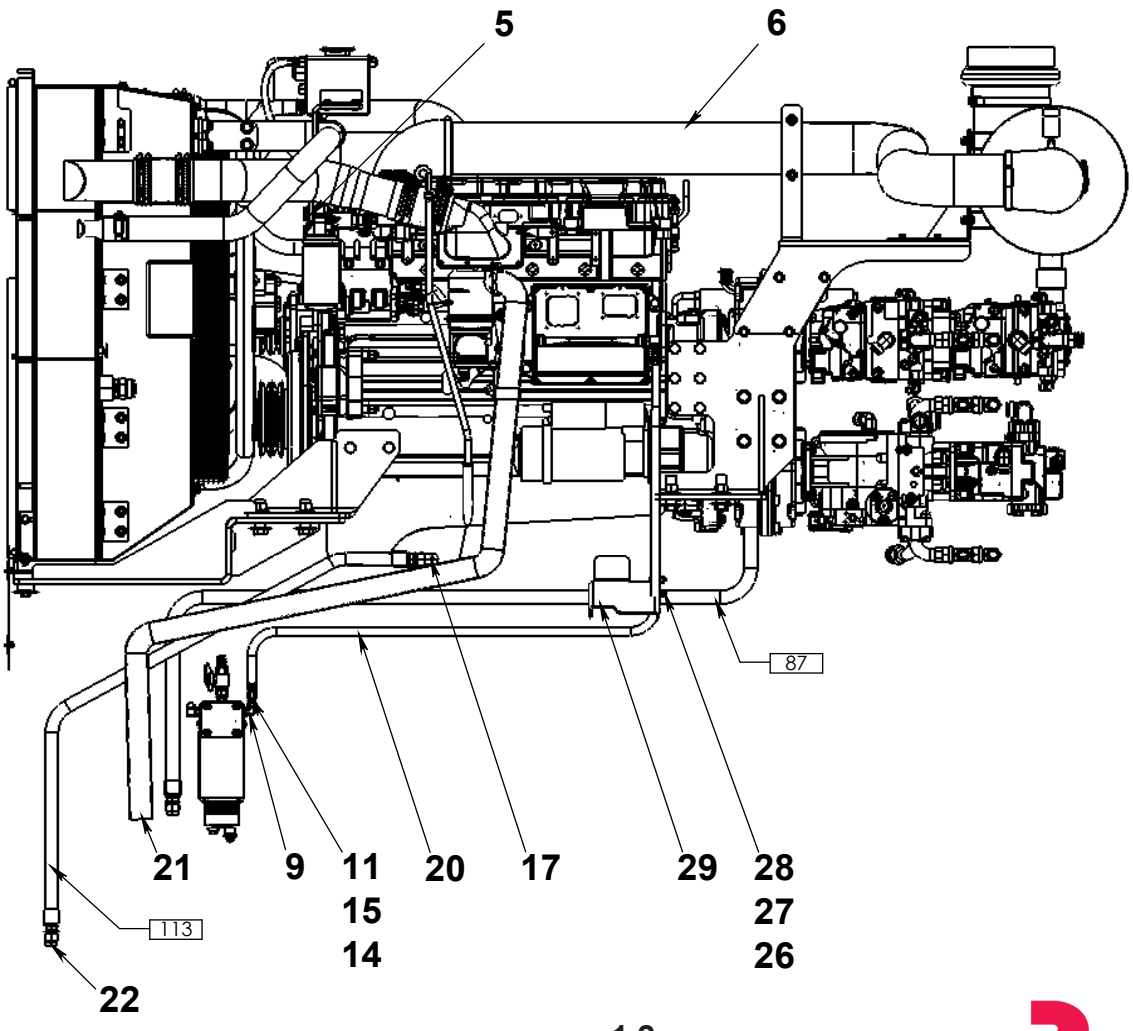




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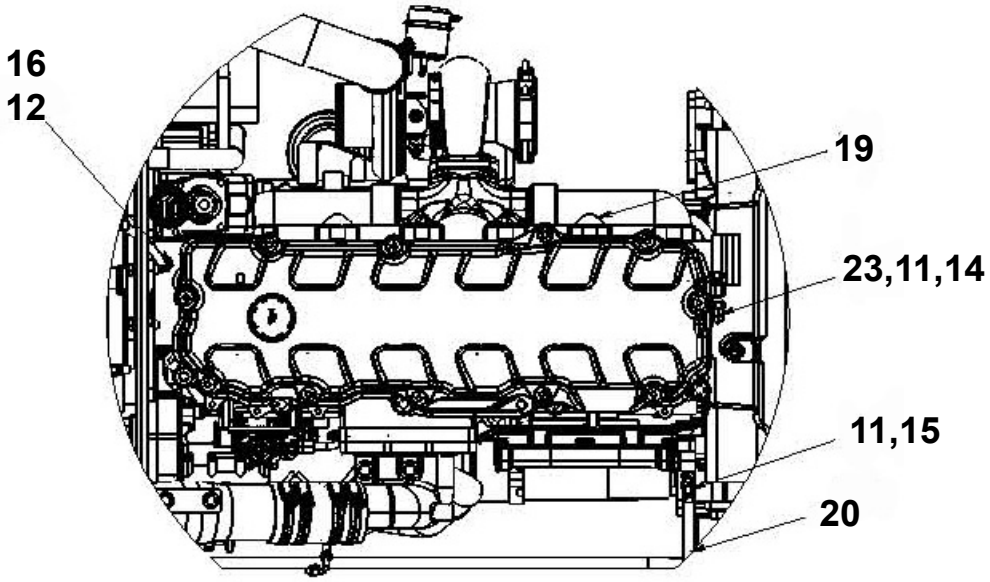
ASSEMBLY-ENGINE T3 LRC CAT C9 (259610-01)





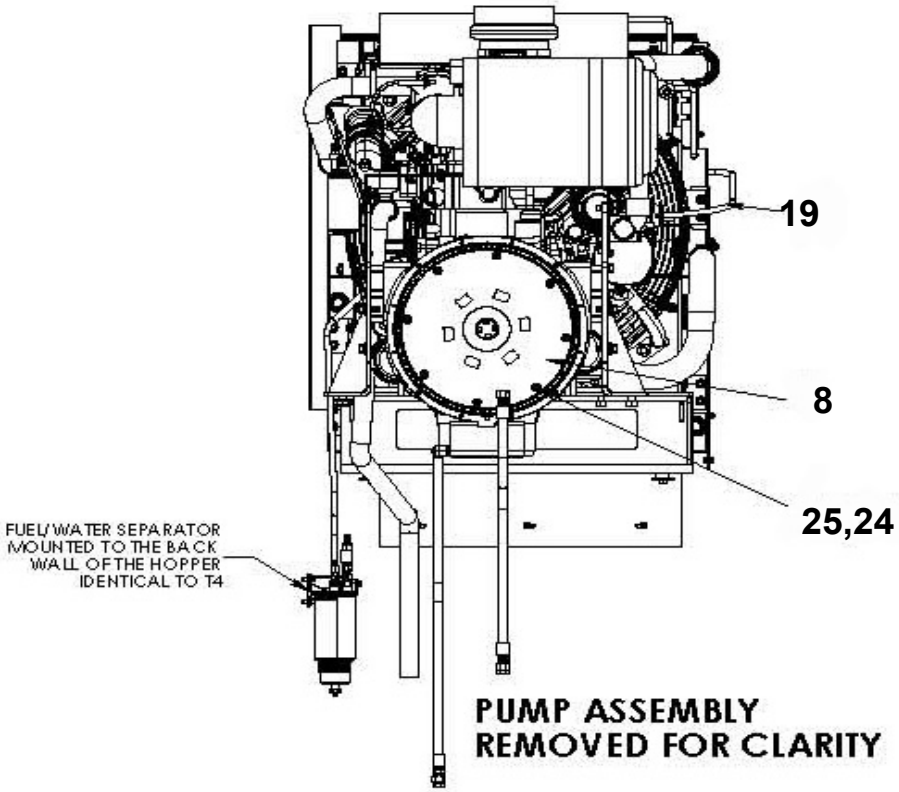
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ASSEMBLY-ENGINE T3 LRC CAT C9 (259610-01)



TOP TANK AND RADIATOR HOSE
REMOVED FOR CLARITY

DETAIL A

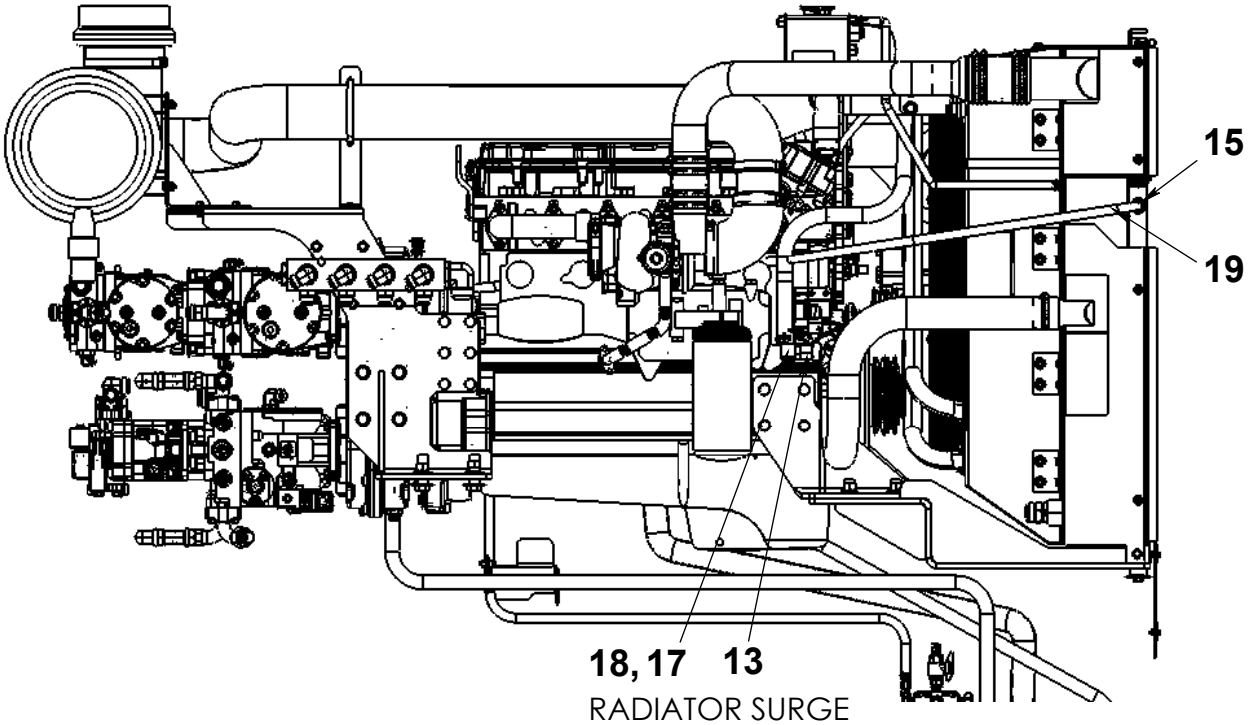


PUMP ASSEMBLY
REMOVED FOR CLARITY

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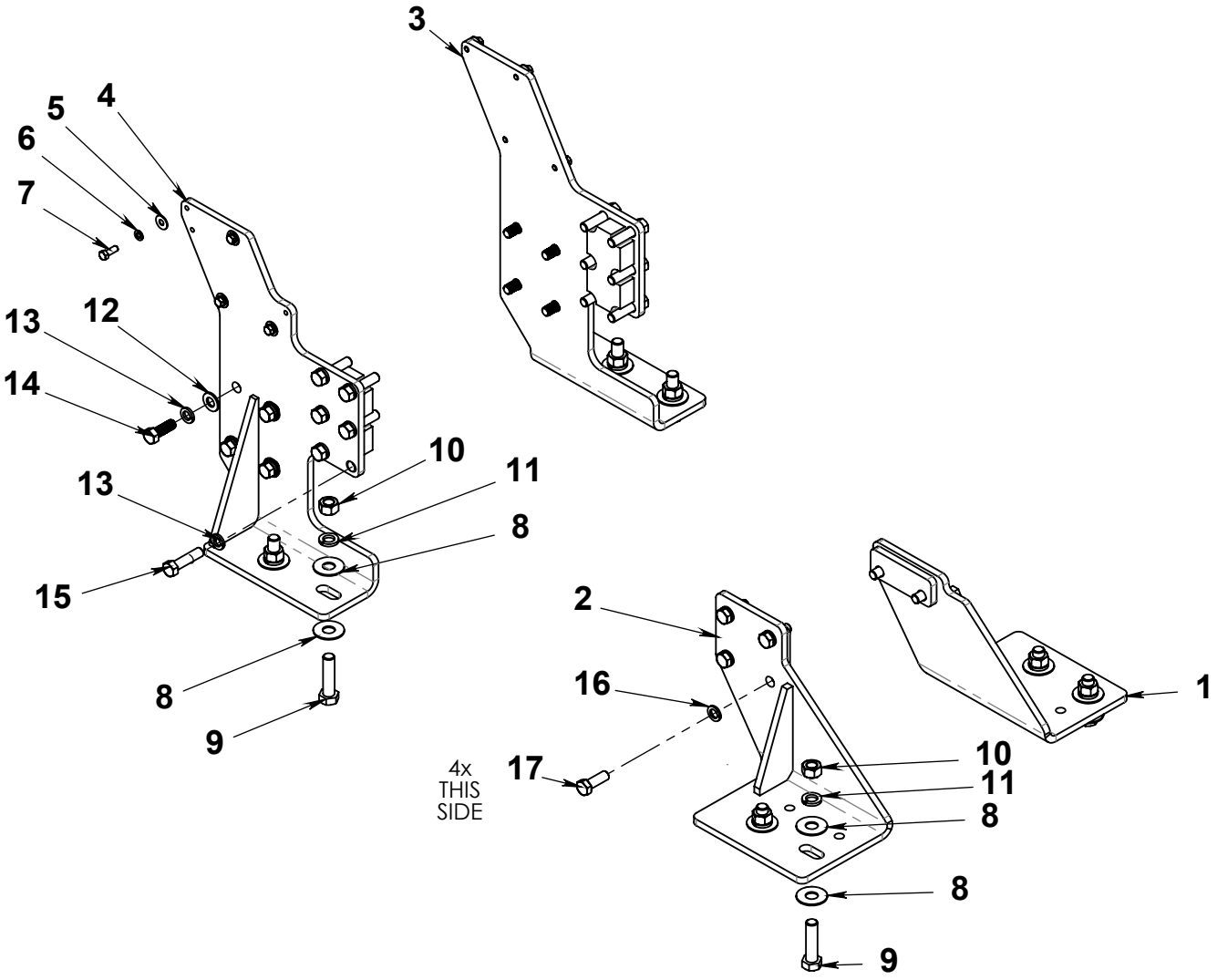
ASSEMBLY-ENGINE T3 LRC CAT C9 (259610-01)



ASSY- ENGINE,CAT C9 T3 LRC SB-2500eX (259610-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	241278-03	ENGINE - CAT C9 300 HP LRG T3 24V	1
2	253598-03	ASSY - ENGINE MOUNT	1
3	216881-03	DETAIL - FUEL FILTER SPACER PLATE	1
4	249979-01	ASSY - EXHAUST, CAT T3	1
5	253625-01	ASSY - COOLING PACKAGE	1
6	253599-01	ASSY - AIR INTAKE	1
7	259609-01	ASSY - PUMPS QSL9	1
8	215893-03	SPRING COUPLING	1
9	259617-01	ASSY - FUEL / WATER SEPERATOR	1
10	250010-01	ASSY - COOLER SHROUD	1
11	132960-04	ADAPTER - 1/4 NPT FM X 6 JIC F SW	2
12	86136-04	FIT - ADAPTER 8 SAE - 1/4 NPT F PIPE	1
13	216876-04	FIT - ADAPTER 8 SAE M - 12 SAE F	1
14	80349-04	HOSE BARB - 1/4" NPT X 3/8" BARB	2
15	45228	CLAMP - 3/8-1/2 WORM	4
16	91846-04	HOSE BARB - 1/4 NPT X 1/4 BARB	2
17	133698	FIT - 12 JIC X 8 SAE 90 DEG. MALE ELBOW	2
18	216874-04	FIT - 90 DEG SAE TO HOSE	2
19	241276-01-20	HOSE - 3/8 FUEL / WATER X 96"	2
20	259610-01-21	HOSE - 3/8 FUEL / WATER X 108"	2
21	217205-01-22	HOSE - RUBBER 2" LOW PRESSURE X 86"	2
22	85395-04	FIT - PLUG 12 JIC	2
23	83953-04	FIT - FM SWIVEL ELBOW 6 JIC 90 DEG.	1
24	83317	LOCKWASHER - 1/2" SPRING STEEL	8
25	84691	SOC. HD. SCREW - 1/2 UNC X 1 1/4"	8
26	83056	LOCKWASHER - 3/8" SPRING STEEL	2
27	83055	HEX NUT - 3/8-16 GR8	2
28	96476	HEX BOLT - 3/8-16 X 1 1/4"	2
29	253616-02	DETAIL - EX ENGINE HOSE TRAY	1
30			

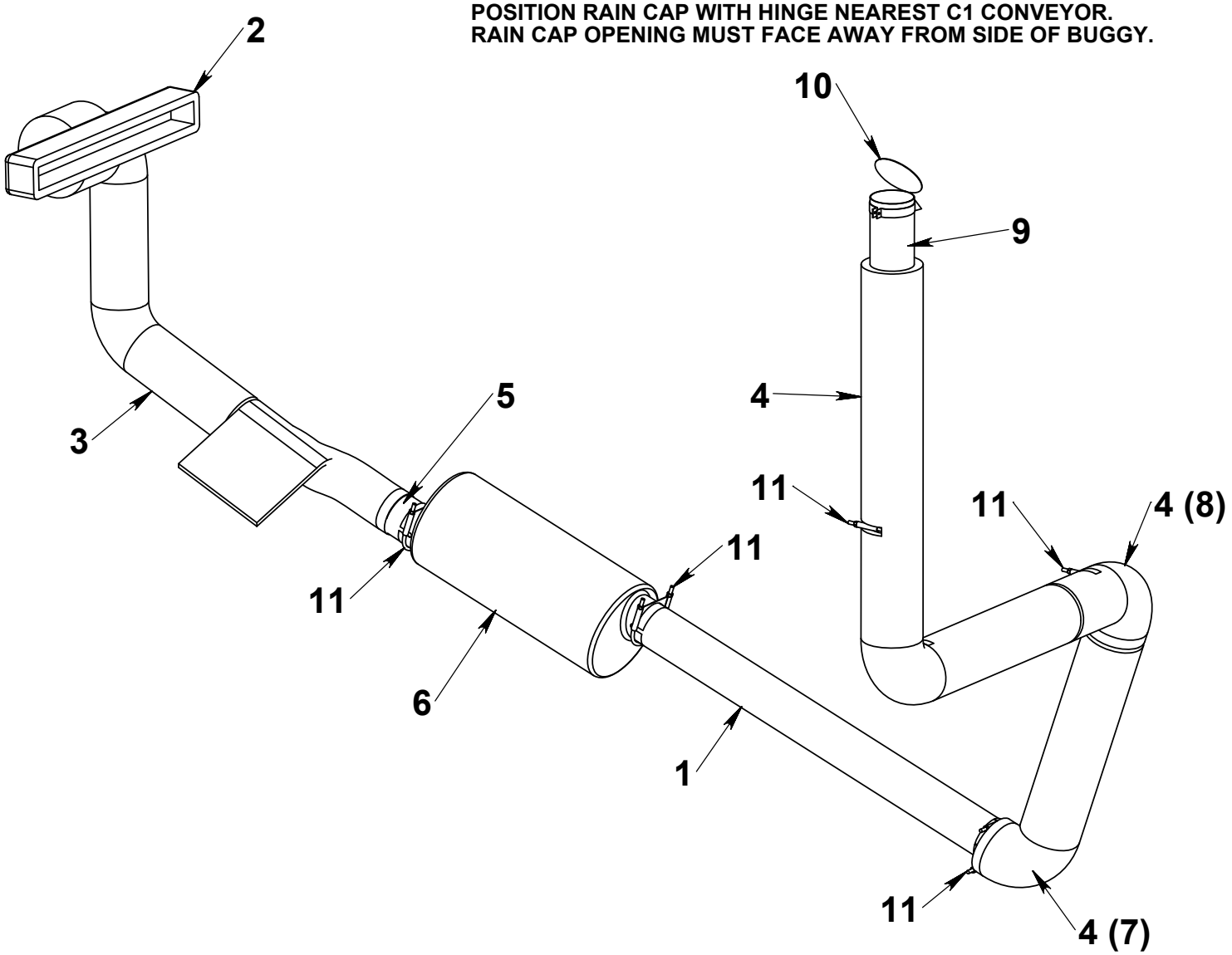
ASSEMBLY-ENGINE MOUNTS
(253598-03)



ITEM #	PART #	DESCRIPTION	QTY.
1	253627-02	WELDMENT-LH FRONT ENGINE MOUNT	1
2	253628-02	WELDMENT-RH FRONT ENGINE MOUNT	1
3	253629-02	WELDMENT-LH REAR MOTOR MOUNT	1
4	253630-02	WELDMENT-RH REAR MOTOR MOUNT	1
5	83757	WASHER ~ FLAT 3/8 STEEL	8
6	83056	WASHER ~ LOCK 3/8 SPRING STEEL	8
7	84332	BOLT * HEX 3/8"-16 X 1"	8
8	83133	WASHER * FLAT 3/4" STEEL	16
9	89151	BOLT * HEX 3/4"-10 X 3"	8
10	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	8
11	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	8
12	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	8
13	84717	WASHER * LOCK 5/8" SPRING STEEL	20
14	89143	BOLT * HEX 5/8"-11UNC X 1 3/4"	8
15	89252	BOLT * HEX 5/8"-11 X 2 1/2"	12
16	01702	WASHER * LOCK 16 7980 SPRING STEEL	6
17	01202	BOLT * HEX M16 X 45 8.8 933	6

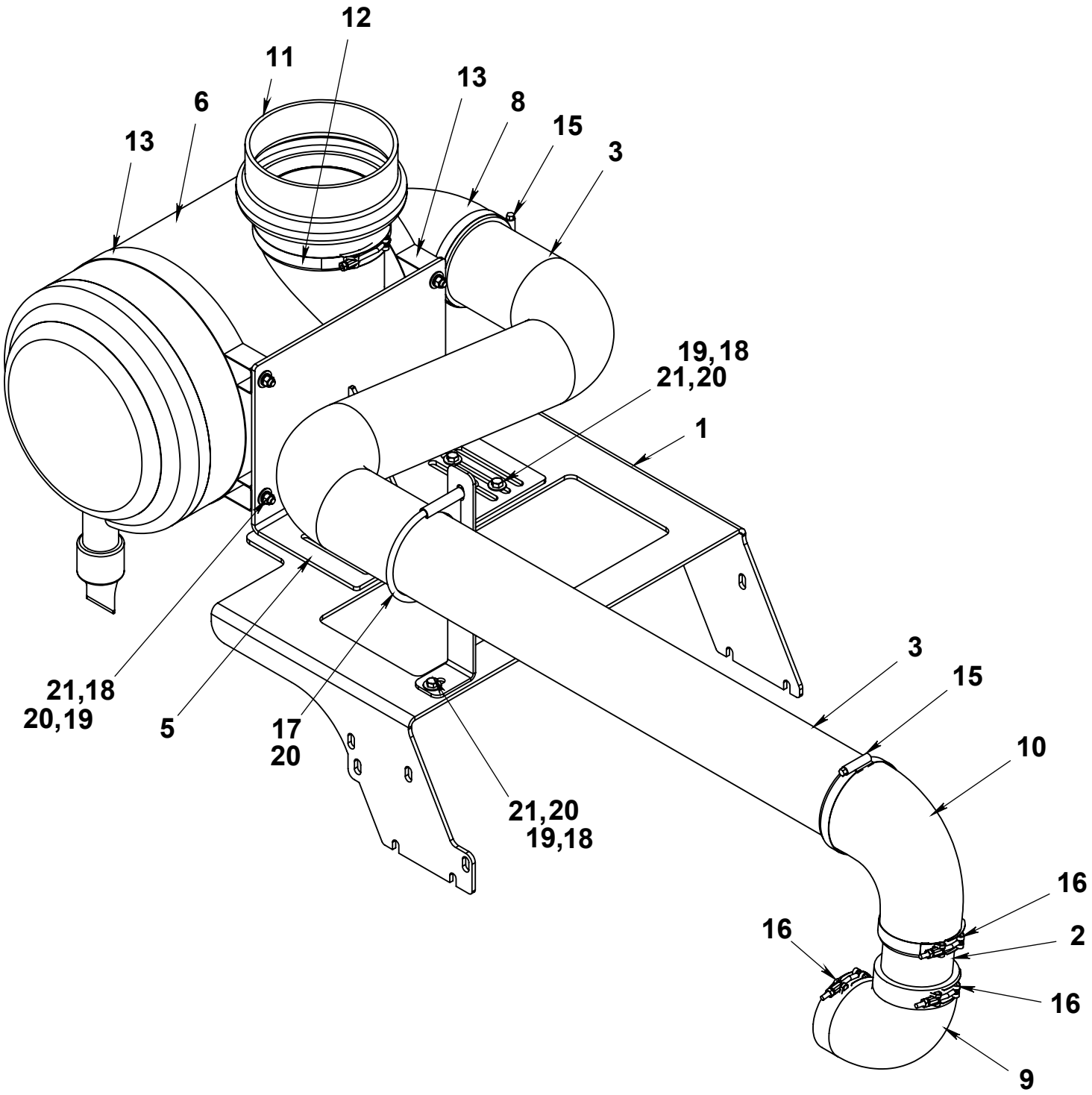
ASSEMBLY-EXHAUST, CAT T3 2500EX (249979-01)

POSITION RAIN CAP WITH HINGE NEAREST C1 CONVEYOR.
RAIN CAP OPENING MUST FACE AWAY FROM SIDE OF BUGGY.



ITEM #	PART #	DESCRIPTION	QTY
1	243863-01-1	RD. TUBE, 5" X 14GA, 53 1/4"LG, A513 ALUMINIZED	1
2	220658-04	INSUL * TURBO BLANKET KIT	1
3	217091-03	INSULATION ~ EXHAUST BEFORE MUFFLER	1
4	249967-03	INSULATION * EXHAUST STACK	1
5	241430-03	EXHAUST * TURBO-TUBE	1
6	243290-03	MUFFLER, 5" X 12" DIA 34" OAL	1
7	244518-03	DETAIL-EXHAUST TUBE BEFORE STACK	1
8	244522-03	EXHAUST * ELBOW 90 5"OD X 5"ID	1
9	243889-03	DETAIL-EXHAUST STACK	1
10	89078-04	RAIN CAP * DURALIFE 5" (CHROME)	1
11	89096-04	CLAMP ~ 5" MUFFLER	6

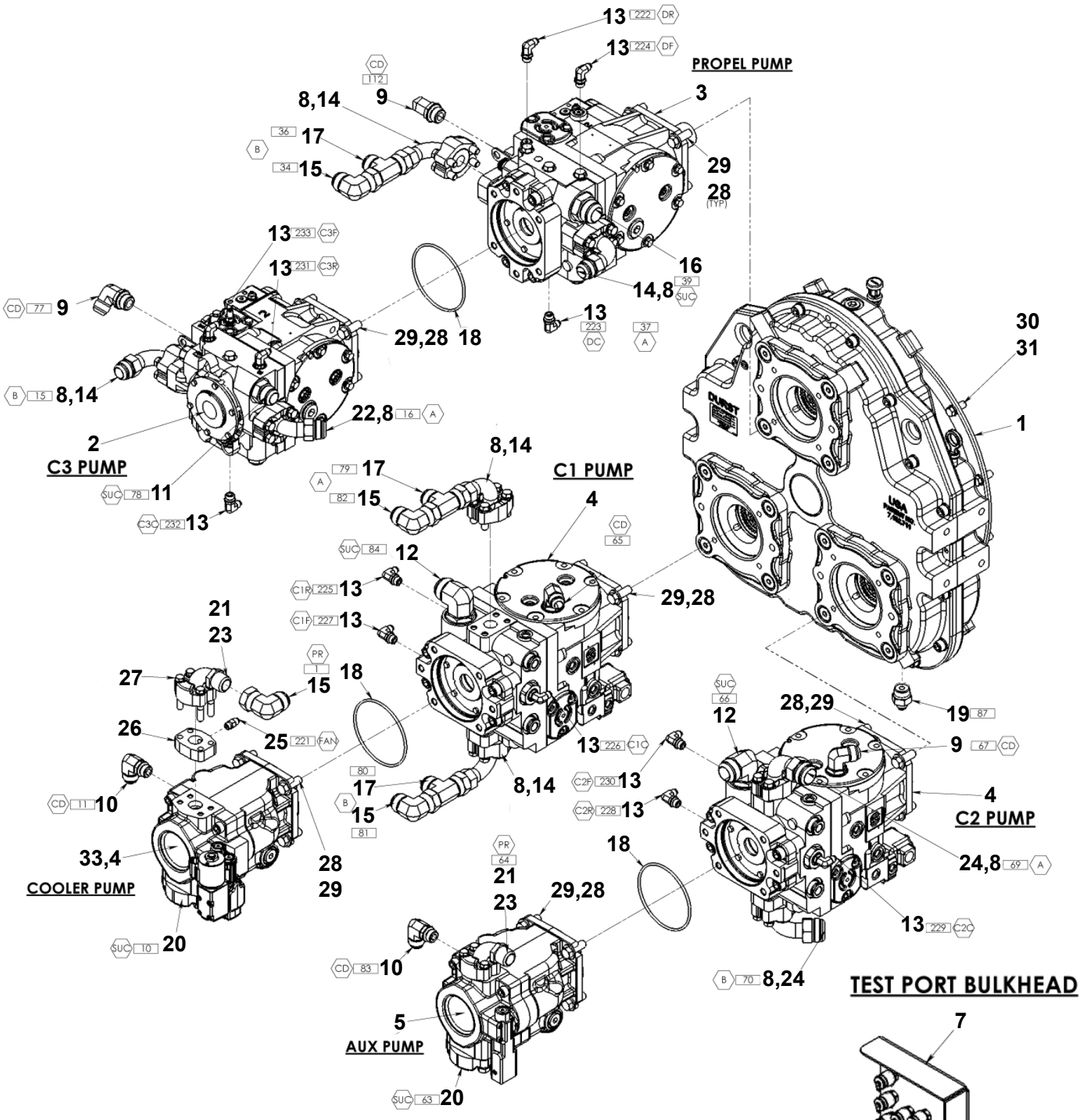
ASSEMBLY-AIR INTAKE, 2500eX
(253599-01)



ASSEMBLY-AIR INTAKE, 2500eX (253599-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	254197-02	WLDT-AIR FILTER INTAKE BRACKET	1
2	241350-01-2	TUBE * 4"OD X 16GA ALUMINIZ,4 3/4"	1
3	254543-03	ENG * TURBO INLET AIR TUBE	1
4	254223-03	DETAIL-AIR TUBE SUPPORT BRACKET	1
5	241611-03	WLDT-AIR FILTER BRACKET	1
6	203086-03	FILTER * AIR CLEANER SB/MTV TIER II	1
7	28R14	GAUGE * RESTRICTION INDICATOR KIT	1
8	254494-04	RUBBER * 6 TO 5 SHORT RAD 90°ELLBOW	1
9	149708	RUBBER*4"I.D.SHORT RADIUS 90°ELBOW	1
10	126978	RUBBER * 4" TO 5" REDUCING ELBOW	1
11	201416	RUBBER * 8-7 HUMP REDUCER	1
12	135309	CLAMP ~ 7" T-BAR	1
13	203087-03	FILTER*15"MOUNTING BAND(AIR CLEANR)	2
14	95047	CLAMP ~ 6" T-BAR	1
15	95397	CLAMP * 4 3/4-5 5/8 CONSTANT TORQUE	2
16	83129	CLAMP * T-BAR 4"	3
17	89096-04	CLAMP ~ 5" MUFFLER	1
18	83055	NUT * 3/8-16 HEX GRADE 8	9
19	83056	WASHER ~ LOCK 3/8 SPRING STEEL	9
20	83757	WASHER ~ FLAT 3/8 STEEL	11
21	84332	BOLT * HEX 3/8"-16 X 1"	9

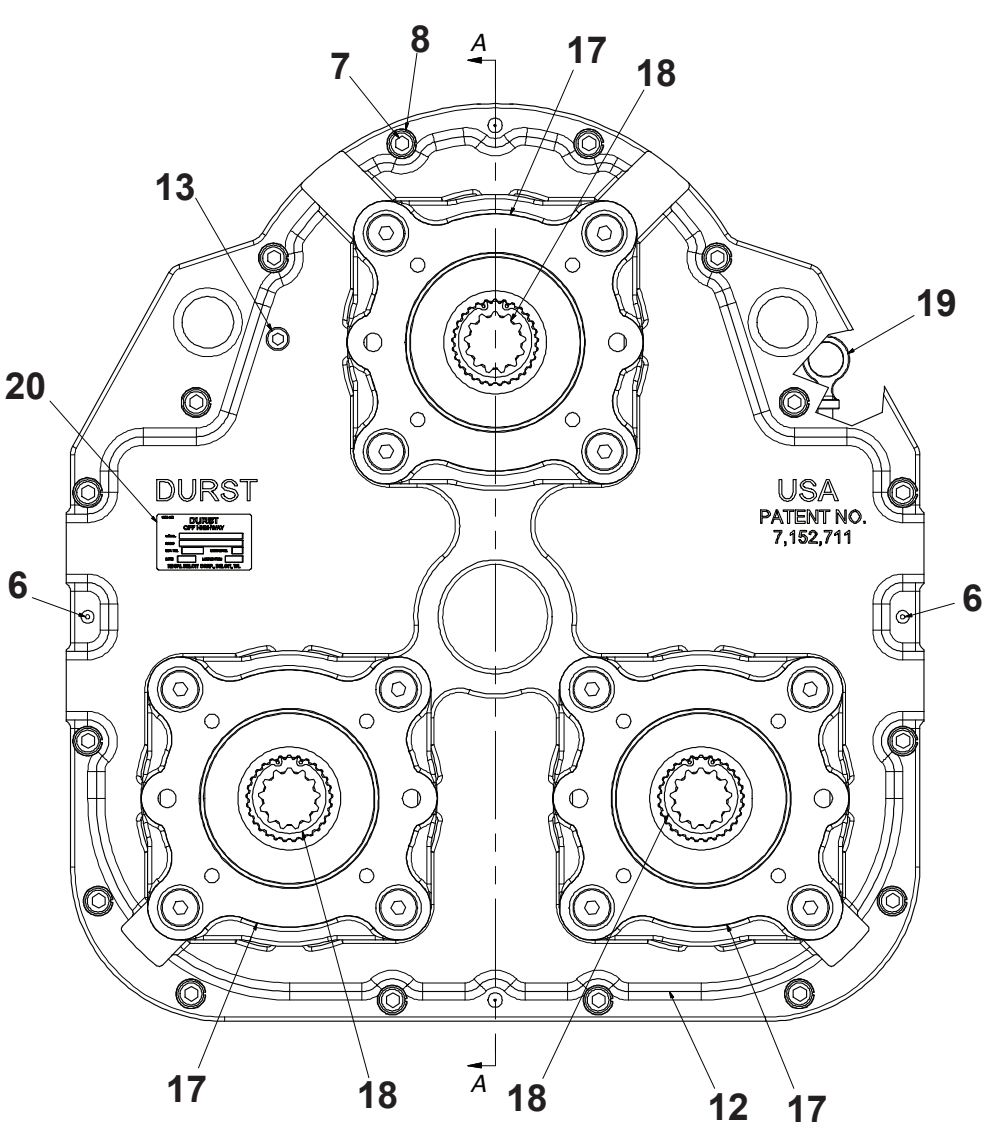
ASSY- PUMPS, QSL9 SB-2500e/eX
(259609-01)

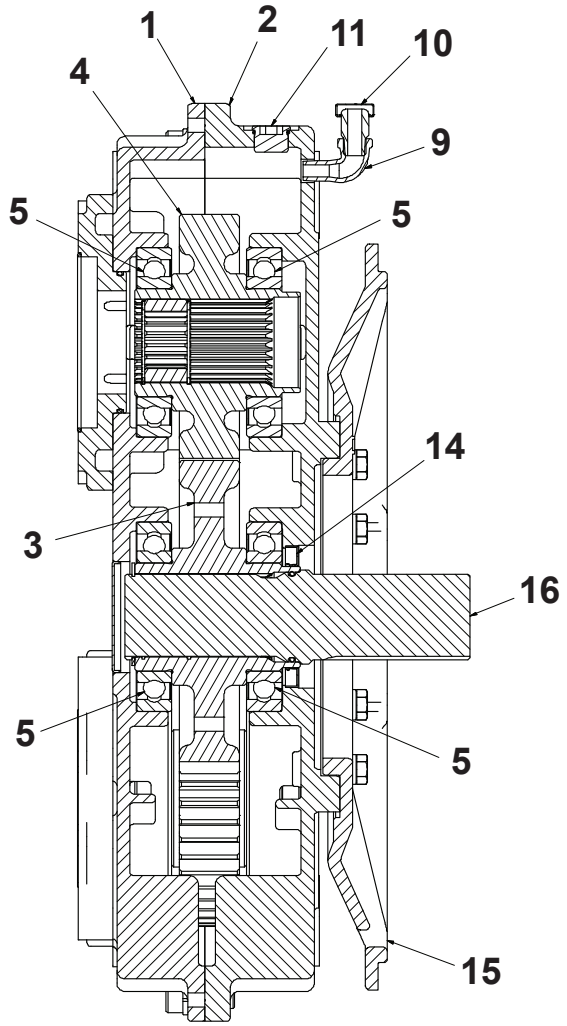


ASSEMBLY- PUMPS QSL9, SB-2500eX (259609-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	246988-01	PUMP - DRIVE 3PD08 1.23 INC	1
2	233849-04	PUMP - HYD STAT SERIES 90-75 CC NO AUX PAD	1
3	233837-04	PUMP - HYD STAT SERIES 90-100 CC 13 TOOTH 8/16	1
4	99814	PUMP - CLOSED LOOP, SAUER-DANFOSS SERIES 90/100 CC, CCW	2
5	258637-03	PUMP - 60CC PC 14T CCW	1
6	233856-04	PUMP - AUX 45CC PRESSURE COMPENSATED PROP CONTROL	1
7	242325-03	ASSY - PUMP TEST PORT PANEL	1
8	90729	KIT - FLANGE #16 CODE 62	8
9	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG	4
10	97551	FIT - 12 JIC TO 10 SAE 90 DEG.	2
11	89610	FIT - 16 JIC X 16 SAE ST MALE	1
12	97168	FIT - ELBOW 20 JIC X 20 SAE 90 DEG.	2
13	91841-04	FIT - ELBOW 4 JIC X 6 SAE 90 DEG.	12
14	92775	FIT - 16 JIC - 16 FLG 90 DEG. CODE 62	5
15	84654-04	FIT - SWIVEL ELBOW 16 JIC 90 DEG. STEEL	4
16	84244-04	FIT - CONNECTOR 20 JIC - 20 SAE M	1
17	98118	FIT - SWIVEL RUN TEE 16 JIC	3
18	223350-04	O-RING - SD SAE C FLANGE	3
19	89616	FIT - 8 JIC X 12 SAE ST MALE	1
20	201955	FIT - 32 FLANGE KIT CODE 61	2
21	89017-04	KIT - FLANGE #16 CODE 61	2
22	121517	FIT - 16 JIC M - 16 FLG 45 DEG CODE 62	1
23	92572	FIT - FLG ELBOW 90 DEG 16-16 CODE 61	2
24	95981	FIT - 20 JIC - 16 FLG 90 DEG. CODE 62	2
25	83474-04	FIT - CONNECTOR 4 JIC - 4 SAE	1
26	242067-04	FIT - 16 X 4 GAUGE PORT SPACER CODE 61	1
27	00876	HEX BOLT - 3/8-16 X 2 1/2"	4
28	05707	CONICAL WASHER - HS12 6796 STEEL	24
29	93144	HEX BOLT - 1/2-13 X 1 1/2"	24
30	83756-04	LOCKWASHER - 7/16" SPRING STEEL	12
31	26G26	HEX BOLT - 7/16-14 X 1 1/4"	12
32	236436-03	MOD - PUMP PRESSURE REDUCTION (NOT SHOWN)	1
33	241780-03	INSTRUCTION - FAN PUMP MAX PRESSURE	1
34			
35			

ASSY- PUMP DRIVE 3PD08 1.23 INC.
(246988-01)





SECTION A-A

NOTE:

1) REFER TO ASSEMBLY BOOK FOR ADAPTER MOD DRAWINGS.
2) LUBRICATE ALL ORINGS PRIOR TO INSTALLATION.
3) USE LOCTITE 680 WHEN INSTALLING EXP. PLUG, P/N 012043.
4) USE LOCTITE 680 WHEN INSTALLING DIPSTICK,
   AND DIPSTICK HOLE PLUG, P/N 012326.
5) DO NOT USE LOCTITE ON PUMP PAD SCREWS.
6) TIGHTEN 1/2" SCREWS: 105 FT.LBS.
7) TIGHTEN 5/8" SCREWS: 210 FT.LBS.
8) NOTE VENT AND DRAIN PLUG LOCATIONS.

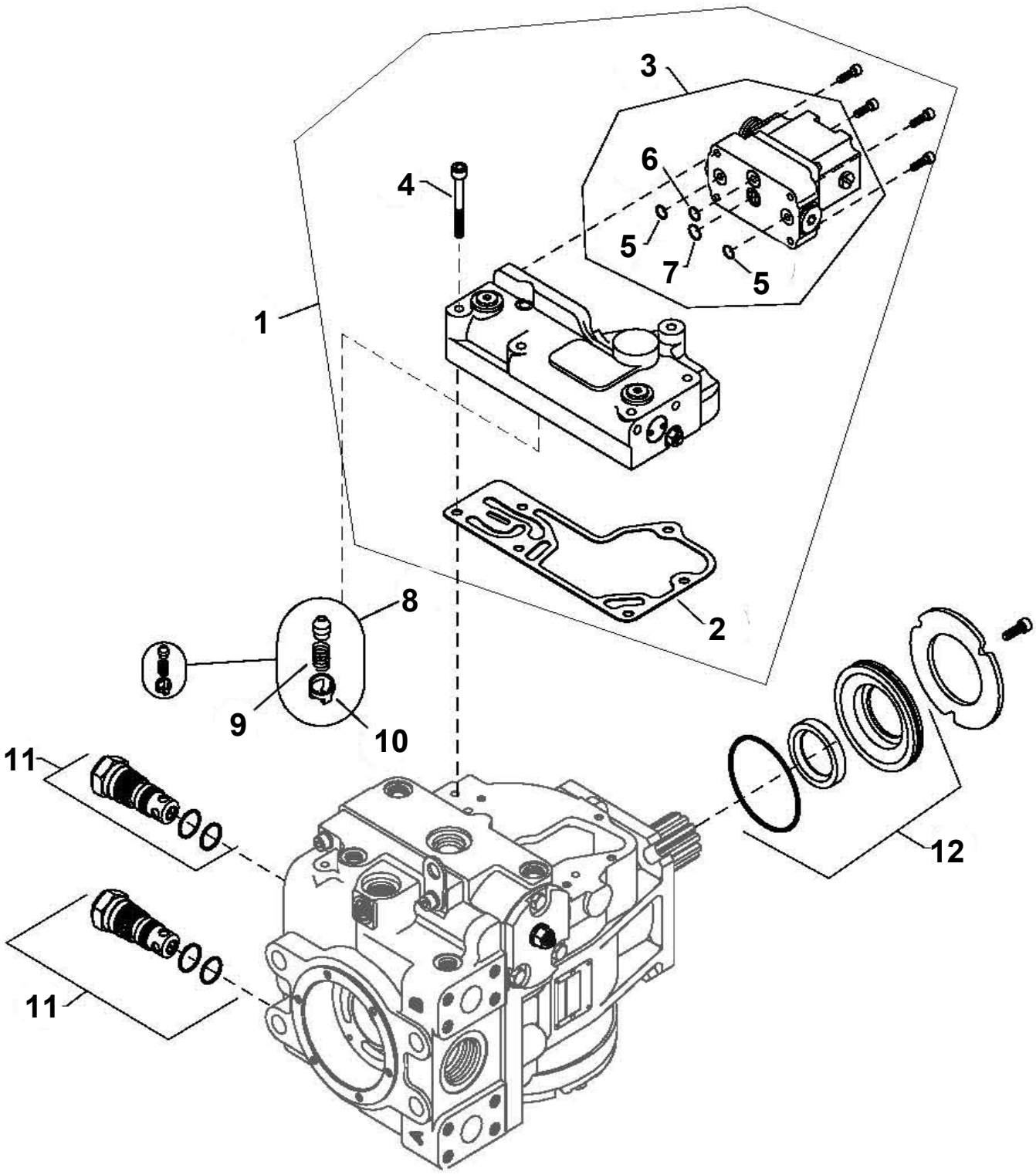
PUMP DRIVE NOMENCLATURE: 3PD08 1.23I N11-CDH-CDH-CDH-RN

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ASSEMBLY - PUMP DRIVE 3PD08 1.23 INC.
(246988-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	233864-03-C2	HSG - 3PD08 - OUTPUT	1
2	246988-01-C1	HSG - 3 PD08 - INPUT - MOD FIN	1
3	219411-03-C2	GEAR - SPUR - 6DP - 53T - SOS - 1.75" FW	1
4	219411-03-C3	GEAR - SPUR - 6DP - 43T - SOS - 1.75" FW	3
5	219411-03-C1	BEARING - BALL 3.1496 X 5.5118 X 1.0236 6216Z	8
6	215894-03-C2	PIN - DOWEL 3/8	2
7	215894-03-C11	1/2-13 UNC X 1.50 SOCKET HD CAP SCREW	16
8	215894-03-C10	WASHER - LOCK 1/2	16
9	228183-04	STREET ELBOW, 3/8-18 NPT	1
10	135572-01-C3	FITTING - BREATHER ASSEMBLY	1
11	246988-01-C2	PLUG - ZERO LEAK 1-1/16-12 UN TH'D - SOC HD	1
12	215894-03-C14	PLUG - ZERO LEAK 1-1/16-12 UN HEX - SOC - MAG	1
13	215894-03-C7	PLUG - HEX SOC PIPE 3/8-18 NPT	1
14	215894-03-C8	SEAL 2.2938 X 4.124 X 0.375 DBL VITON	1
15	246988-01-C3	MOD - ENGINE ADAPTER - SAE 1	1
16	246988-01-C4	MOD - SHAFT - INPUT - 29T X 29T - 12/24	1
17	246988-01-C5	MOD - PUMP PAD - SAE C	3
18	246988-01-C6	MOD - SPLINE - SAE D	3
19	242497-04	DIPSTICK - 3PD08	1
20	246988-01-C7	NAME TAG	1

ASSEMBLY, C-3 PUMP
(233849-04)



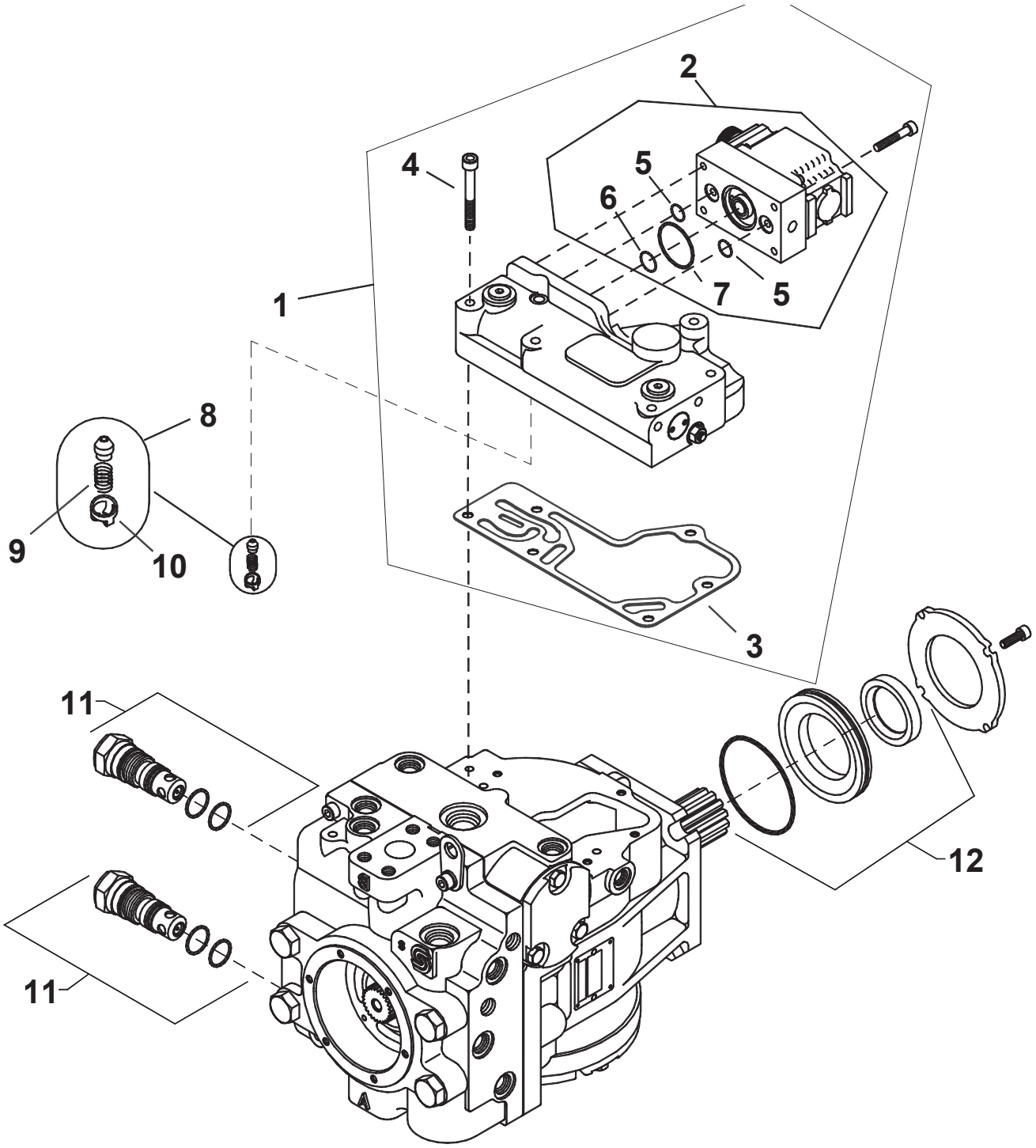
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ASSEMBLY, C-3 PUMP
(233849-04)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	29J94-C13	EDC KIT	1
2	142125-C2	GASKET	1
3	125297-C4-1	PCP	1
4	142125-C4	SCREW	6
5	142125-C5	O-RING	2
6	142125-C6	O-RING	1
7	142125-C7	O-RING	1
8	142125-C8	CONTROL ORIFICE	1
9	142125-C9	SPRING	1
10	142125-C10	SPRING RETAINER	1
11	29J94-C10	MULTI-FUNCTION VALVE	2
12	142125-C11	SHAFT SEAL KIT	1
13			
14			
15			

CODE: 90-L-075-KA-1-NN-60-S-4-SI-D-03-GBA-42-42-24

ASSEMBLY, PROPEL PUMP
(233837-04)



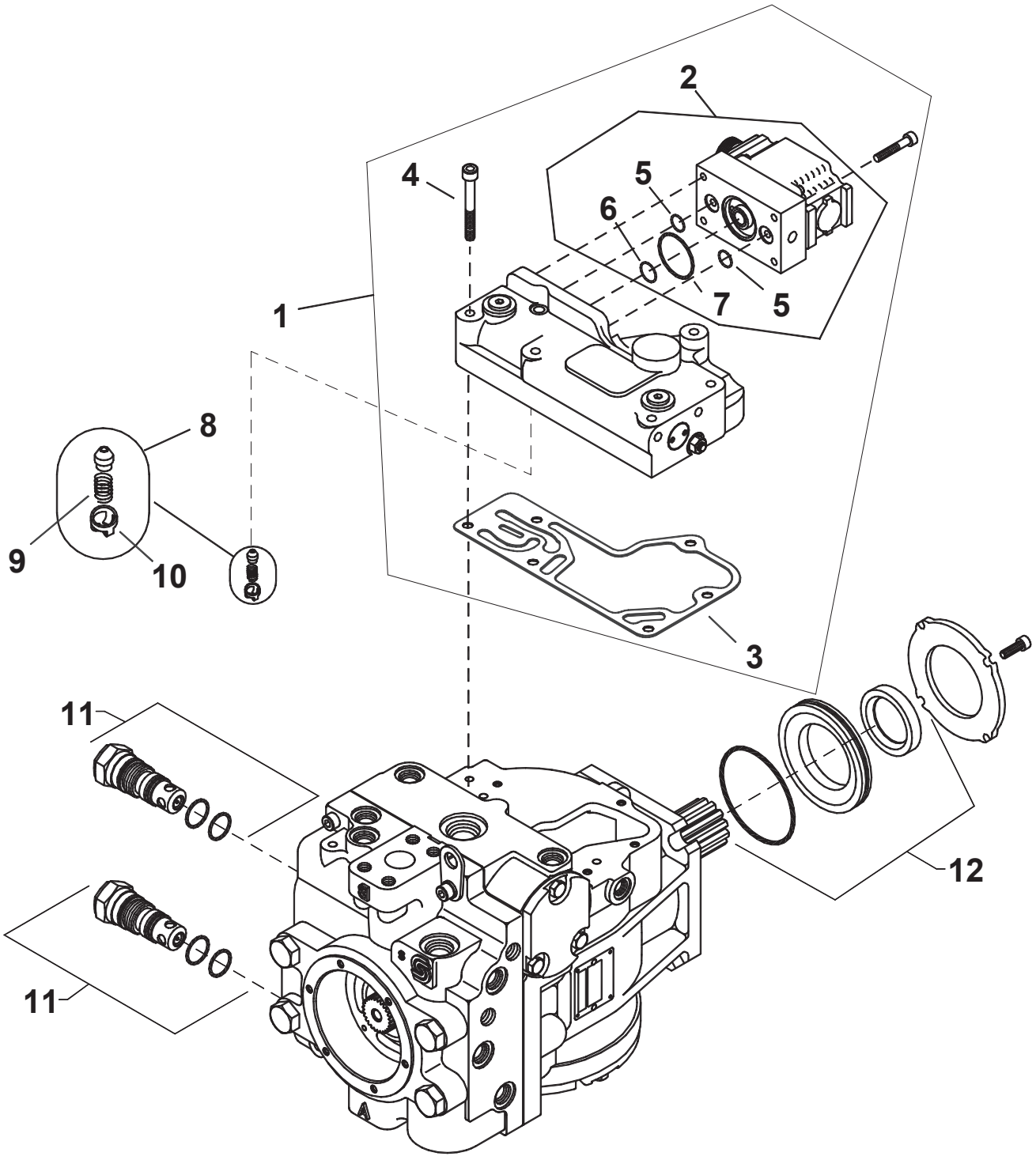
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ASSEMBLY, PROPEL PUMP
(233837-04)

ITEM #	PART #	DESCRIPTION	QTY.
1	29J94-C13	EDC KIT	
2	142125-C2	GASKET	
3	125297-C4-1	PCP	
4	142125-C4	SCREW	
5	142125-C5	O-RING	
6	142125-C6	O-RING	
7	142125-C7	O-RING	
8	142125-C8	CONTROL ORIFICE	
9	142125-C9	SPRING	
10	142125-C10	SPRING RETAINER	
11	29J94-C10	MULTI-FUNCTION VALVE	
12	142125-C11	SHAFT SEAL KIT	

90-L-100-KA-1-CE-6-S-4-F1-G-03-GBA-42-42-24

ASSEMBLY, C-1 & C-2 PUMP
(99814)

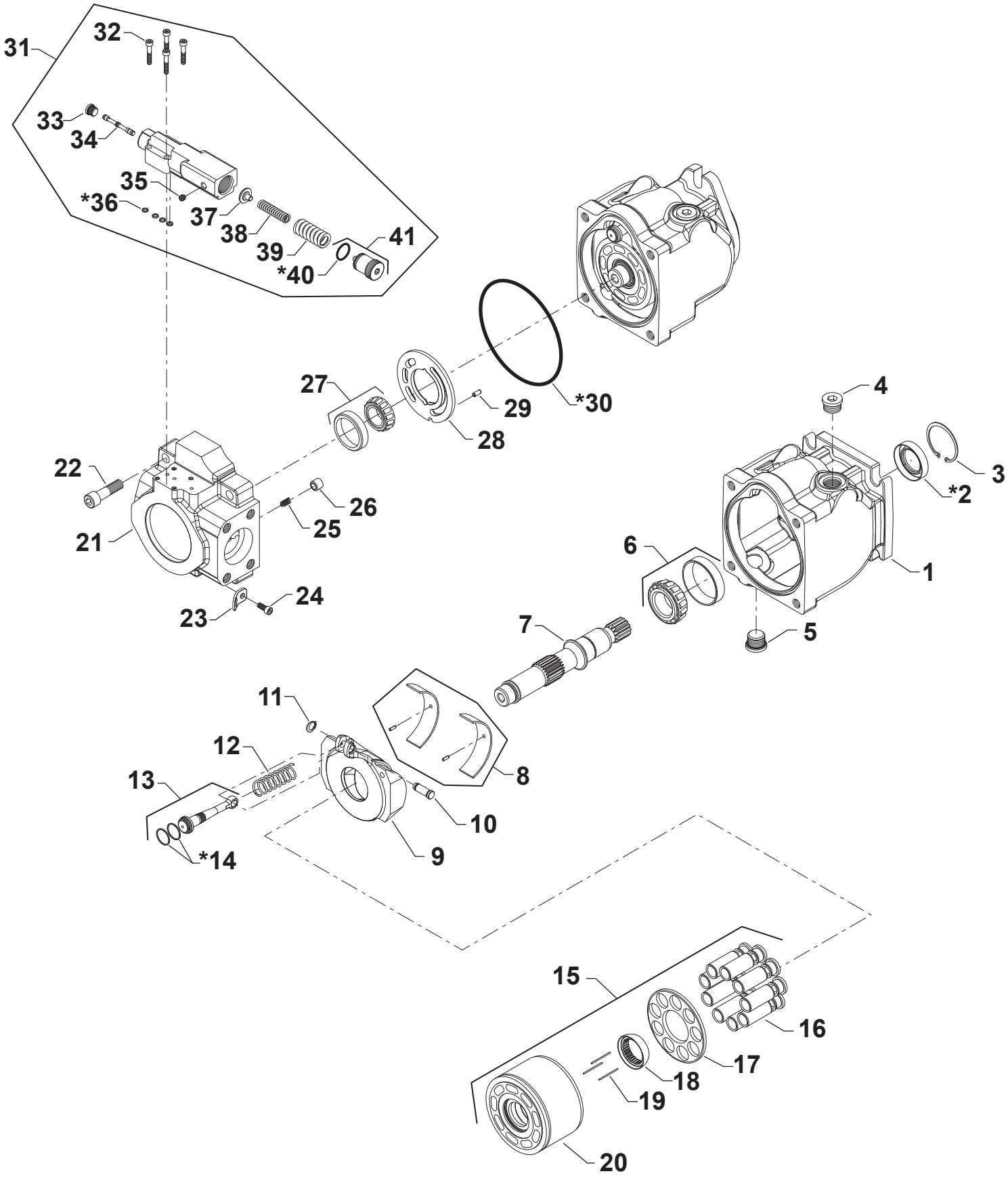


ASSEMBLY, C-1 & C-2 PUMP
(99814)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	99814-C2	EDC KIT	1
2	99814-C1	PCP	1
3	142125-C2	GASKET	1
4	142125-C4	SCREW	6
5	142125-C5	O-RING	2
6	142125-C6	O-RING	1
7	142125-C7	O-RING	1
8	142125-C8	CONTROL ORIFICE	1
9	142125-C9	SPRING	1
10	142125-C10	SPRING RETAINER	1
11	29J94-C10	MULTI-FUNCTION VALVE	2
12	99814-C3	SHAFT SEAL KIT	1
13			
14			
15			

CODE: 90-L-100-KA-1-CD-60-S-3-F1-E-03-GBA-42-42-24-P010

ASSEMBLY - AUXILIARY PUMP
(258637-03)



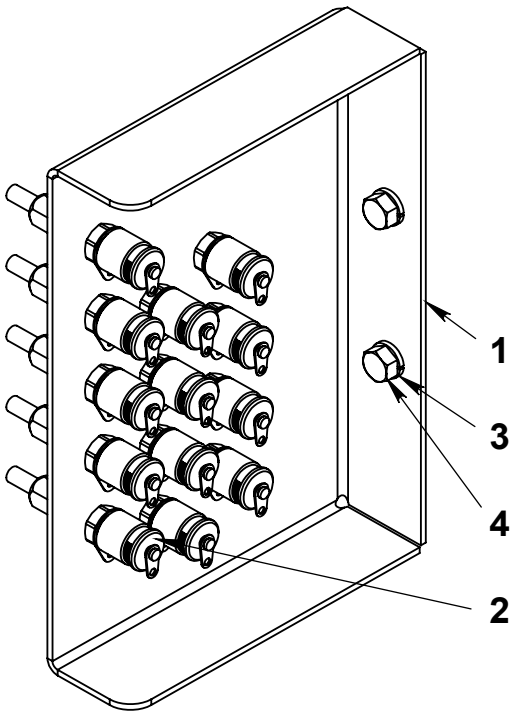
* = included in overhaul seal kit item **#42**

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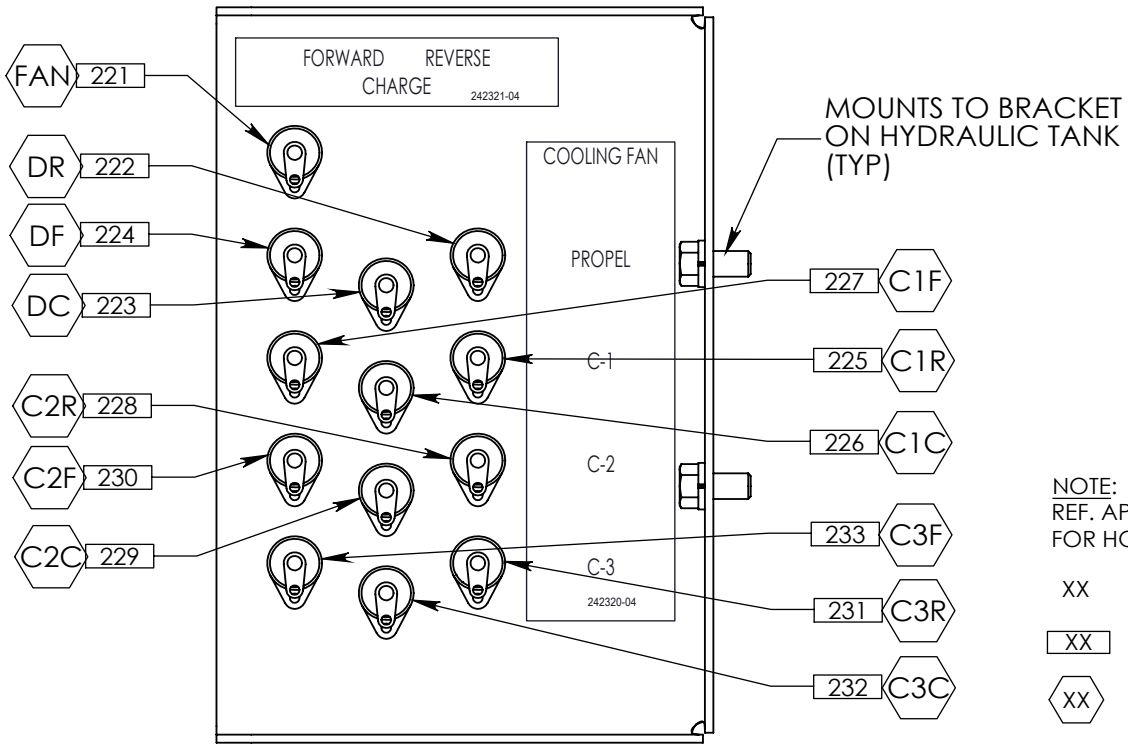
ASSEMBLY - AUXILIARY PUMP
(258637-03)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	258637-03-C5	HOUSING	1
2	203518-04-C2	LIP SEAL	1
3	211743-04-C19	RETAINING RING	1
4	211743-04-C29	PLUG ASSEMBLY	1
5	211743-04-C29	PLUG ASSEMBLY	1
6	233847-03-C29	FRONT BEARING KIT	1
7	233847-03-C15	SHAFT	1
8	258637-03-C11	SWASHPLATE BEARING KIT	1
9	258637-03-C1	SWASHPLATE ASSEMBLY	1
10	211743-04-C13	RETAINER SHAFT	1
11	211743-04-C12	RETAINING RING	1
12	211743-04-C11	BIAS SPRING	1
13	258637-03-C9	SERVO PISTON ASSEMBLY	1
14	258637-03-C10	PISTON RING	2
15	258637-03-C8	CYLINDER BLOCK KIT	1
16	258637-03-C7	PISTON ASSEMBLY	9
17	233847-03-C22	SLIPPER RETAINER	1
18	233847-03-C21	SLIPPER RETAINER GUIDE	1
19	224866-03-C11	HOLD DOWN PIN	3
20	258637-03-C6	CYLINDER BLOCK ASSEMBLY	1
21	258637-03-C4	END CAP - RADIAL	1
22	211743-04-C29	SCREW	4
23	233847-03-C17	LIFTING BRACKET	1
24	233847-03-C18	SCREW	1
25	233847-03-C3	SPRING	1
26	233847-03-C2	CHECK VALVE POPPET	1
27	233847-03-C27	REAR BEARING KIT	1
28	258637-03-C2	VALVE PLATE - CCW	1
29	90449-04-C16	SLOTTED PIN	1
30	211743-04-C6	END CAP SEAL	1
31	206441-04-C5-1	CONTROL KIT	1
32	206441-04-C2	SCREW	4
33	211743-04-C21	PLUG ASSEMBLY	1
34	211743-04-C22	CONTROL SPOOL	1
35	211743-04-C23	SET SCREW	1
36	206441-04-C1	SEAL RING	4
37	211743-04-C24	SPRING GUIDE - PC	1
38	211743-04-C25	INNER SPRING - PC	1
39	211743-04-C26	OUTER SPRING - PC	1
40	211743-04-C28	O-RING	1
41	258637-03-C3	ADJUSTING PLUG - PC	1
42	217790-03-C1	OVERHAUL SEAL KIT	1

ASSY- PUMP TEST PORT PANEL
(242325-03)



TAG LABEL	DESCRIPTION
FAN	RADIATOR FAN
DF	PROPEL FORWARD
DC	PROPEL CHARGE
DR	PROPEL REVERSE
C1F	C1 FORWARD
C1C	C1 CHARGE
C1R	C1 REVERSE
C2F	C2 FORWARD
C2C	C2 CHARGE
C2R	C2 REVERSE
C3F	C3 FORWARD
C3C	C3 CHARGE
C3R	C3 REVERSE



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

XX - ITEM

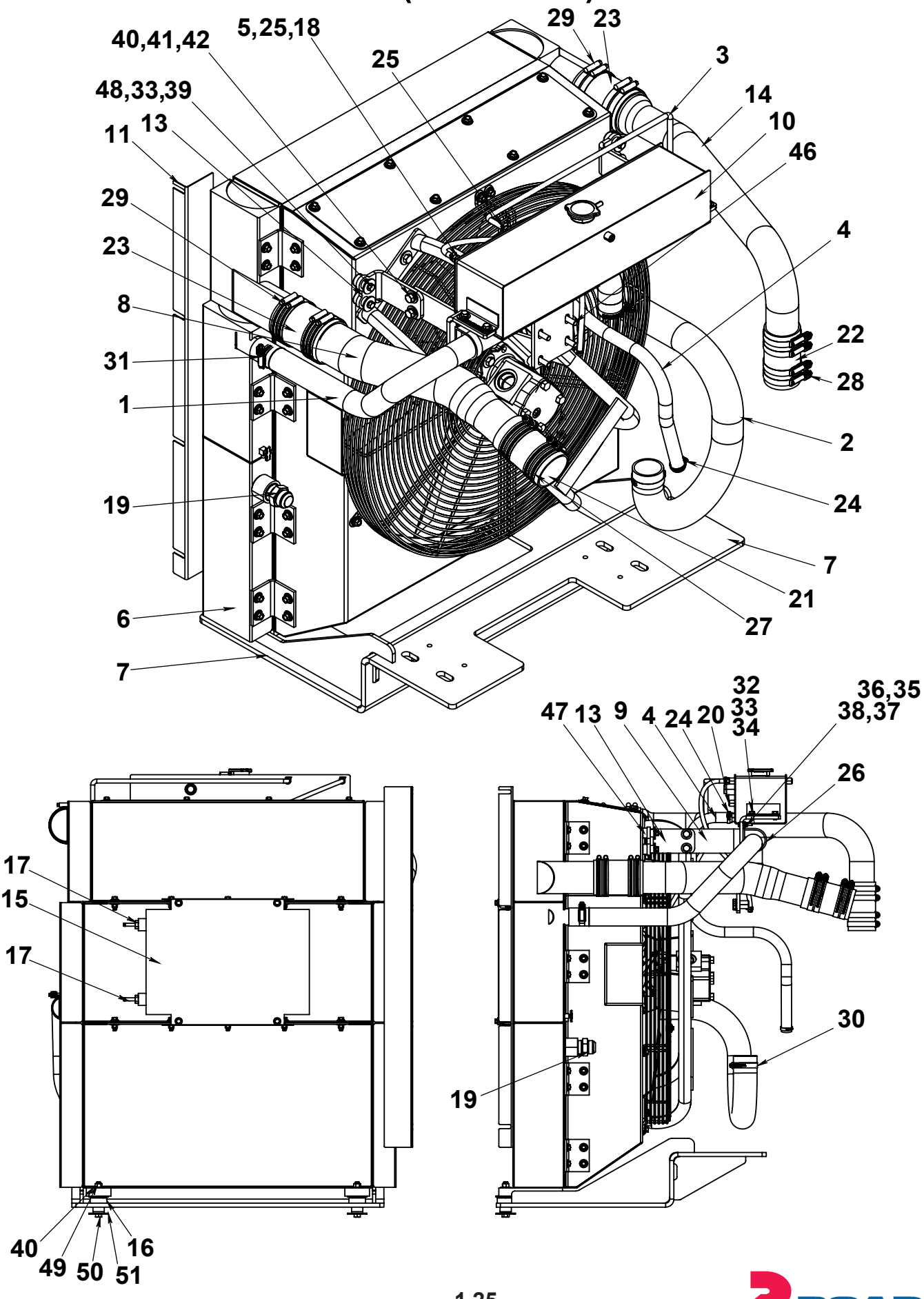
XX - HOSE NUMBER

XX - MANIFOLD PORT

ITEM#	PART #	DESCRIPTION	QTY.
1	242269-03	DETAIL-TEST PORT BRACKET	1
2	236442-04	TEST PORT, BULKHEAD	13
3	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
4	86127-04	BOLT * HEX 3/8"-16 X 3/4"	2

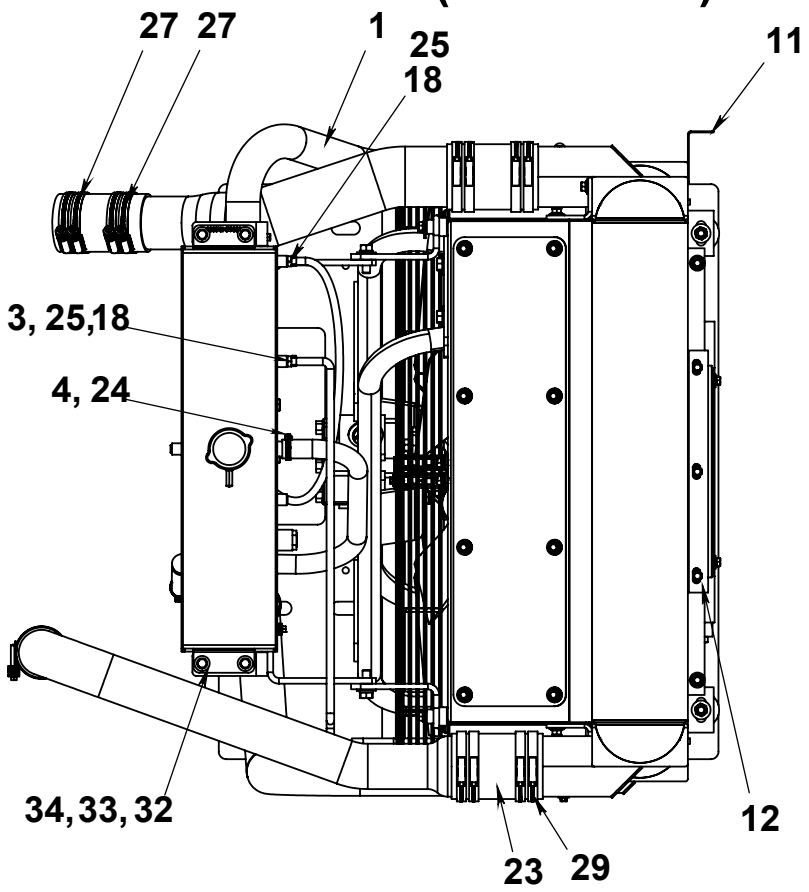
ASSEMBLY-COOLING PACKAGE, 2500eX (253625-01)

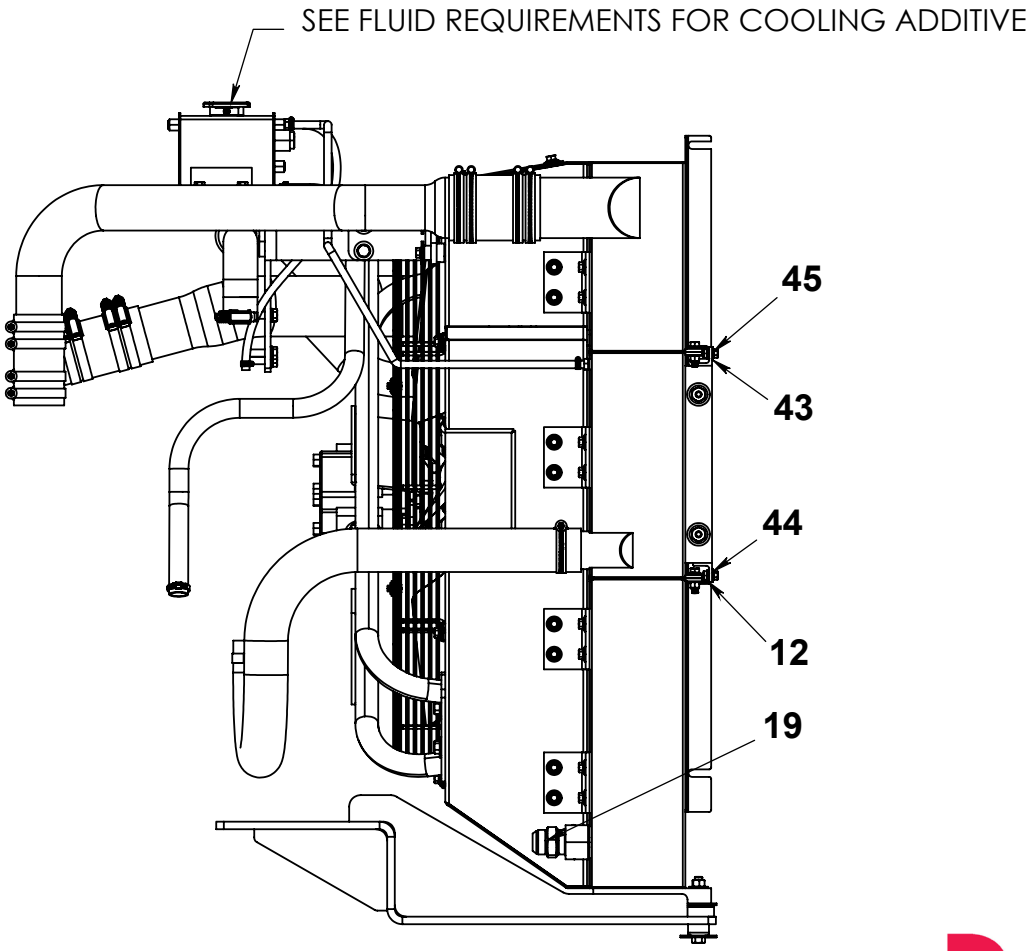
NEXT PAGE



PREVIOUS PAGE

ASSEMBLY-COOLING PACKAGE, 2500eX (253625-01)





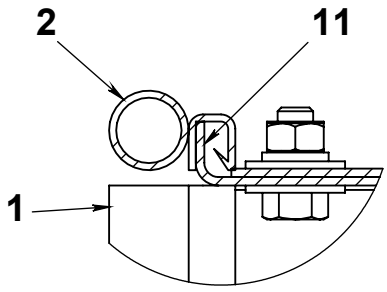
ASSEMBLY-COOLING PACKAGE, 2500eX (253625-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	241453-01-1	2" RADIATOR HOSE x 60 " LG.	1
2	241453-01-2	HOSE * 2 1/2"ID. X 46" RADIATOR	1
3	241453-01-3	HOSE, 1/4 FUEL LINE X 60" LG.	1
4	241453-01-4	HOSE * 1" RADIATOR x 42"	1
5	241453-01-5	HOSE, 1/4" FUEL LINE X 36" LG.	1
6	241489-03	COOLING PACKAGE - SB-2500EX	1
7	253626-02	WLDT-COOL. PACKAGE SUPPORT, BOTTOM	1
8	241615-03	DETAIL-AIR TUBE,2500EX ENGINE INLET	1
9	241571-03	WELDMENT-SUPPORT BRACKET	1
10	242147-03	TANK * TOP TANK TIER 4	1
11	241973-03	DETAIL-RADIATOR FLASHING	1
12	216337-03	WLDT-FUEL COOLER SUPPORT BRACKET	2
13	203210-03	DETAIL-TOP SUPPORT EXTENSION	2
14	241586-03	DETAIL-CHARGE AIR TUBE, TURBO OUTLET	1
15	203544-03	ENGINES-COOL * FUEL COOLER	1
16	203226-03	RUBBER MOUNT * 1/2" BOLT SIZE	2
17	218301-04	CONNECTOR, 8 MALE SAE TO 6 HOSE	2
18	91846-04	HOSE BARB * 1/4" NPT - 1/4" BARB	4
19	84244-04	FIT * CONNECTOR 20 JIC - 20 SAE M	2
20	98247	PLUG 1/4" NPT CSK SOC. HD. BRASS	2
21	216448-04	COUPLING* 3 1/2" CHARGE AIR COOLING RUBBER	1
22	216447-04	COUPLING* 3" CHARGE AIR COOLING RUBBER	1
23	216449-04	COUPLING* 4" CHARGE AIR COOLING RUBBER	2
24	23H31	CLAMP ~ 1 1/4" WORM	2
25	94904	CLAMP * HOSE 1/4"	5
26	205668-04	CLAMP RUBBERIZED	1
27	90084-04	CLAMP * CONSTANT TORQUE	4
28	90085-04	CLAMP * CONSTANT TORQUE 2 3/4 - 3 5/8	4
29	133591	CLAMP ~ 3 5/8"TO 4 5/8" CONSTANT TORQUE	8
30	86003-04	CLAMP * 2 1/4 X 3 1/8 CONSTANT-TORQ	2
31	122629	CLAMP * 1 3/4 X 2 5/8 CONSTANT-TORQ	2
32	83757	WASHER ~ FLAT 3/8 STEEL	4
33	83056	WASHER ~ LOCK 3/8 SPRING STEEL	8
34	86127-04	BOLT * HEX 3/8"-16 X 3/4"	4
35	87849	BOLT * HEX 1/4"-20 X 1 1/2"	1
36	84444	WASHER * FLAT 1/4" STEEL	1
37	83065	WASHER * LOCK 1/4" SPRING STEEL	1
38	89772	NUT * 1/4"-20 HEX GRADE 8	1
39	96475	BOLT ~ HEX 3/8"-16 X 2"	4
40	83781-04	WASHER * FLAT 1/2" STEEL	6
41	83317	WASHER * LOCK 1/2" SPRING STEEL	8
42	93144	BOLT * HEX 1/2"-13 X 1 1/2"	4
43	90871	WASHER ~ FLAT 5/16" STEEL	4
44	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	4
45	87329-04	BOLT ~ HEX 5/16"-18 x 3/4"	4

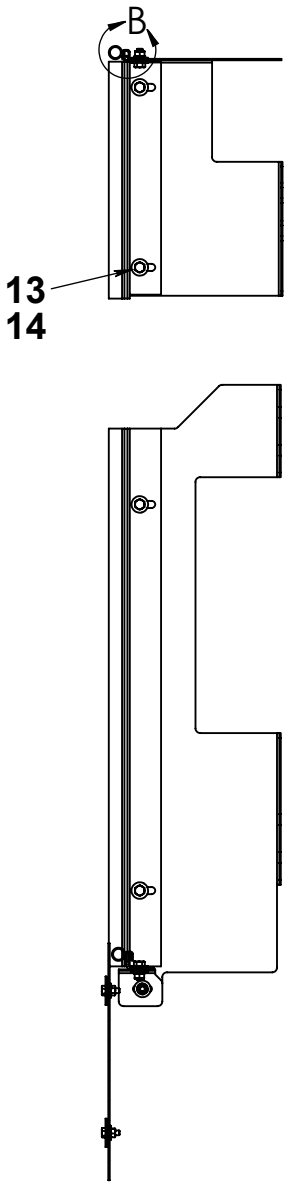
ASSEMBLY-COOLING PACKAGE, 2500eX (253625-01)

ITEM #	PART #	DESCRIPTION	QTY.
46	01190	BOLT * HEX M12-1.75 X 40 10.9 933	4
47	203225-03	RUBBER MOUNT * 3/8" BOLT SIZE	4
48	203227-03	RUBBER MOUNT * HEAD & TAIL WASHER	4
49	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	2
50	84431-04	BOLT * HEX 1/2"-13 X 4"	2
51	203228-03	RUBBER MOUNT * HEAD WASHER (CBA20)	4

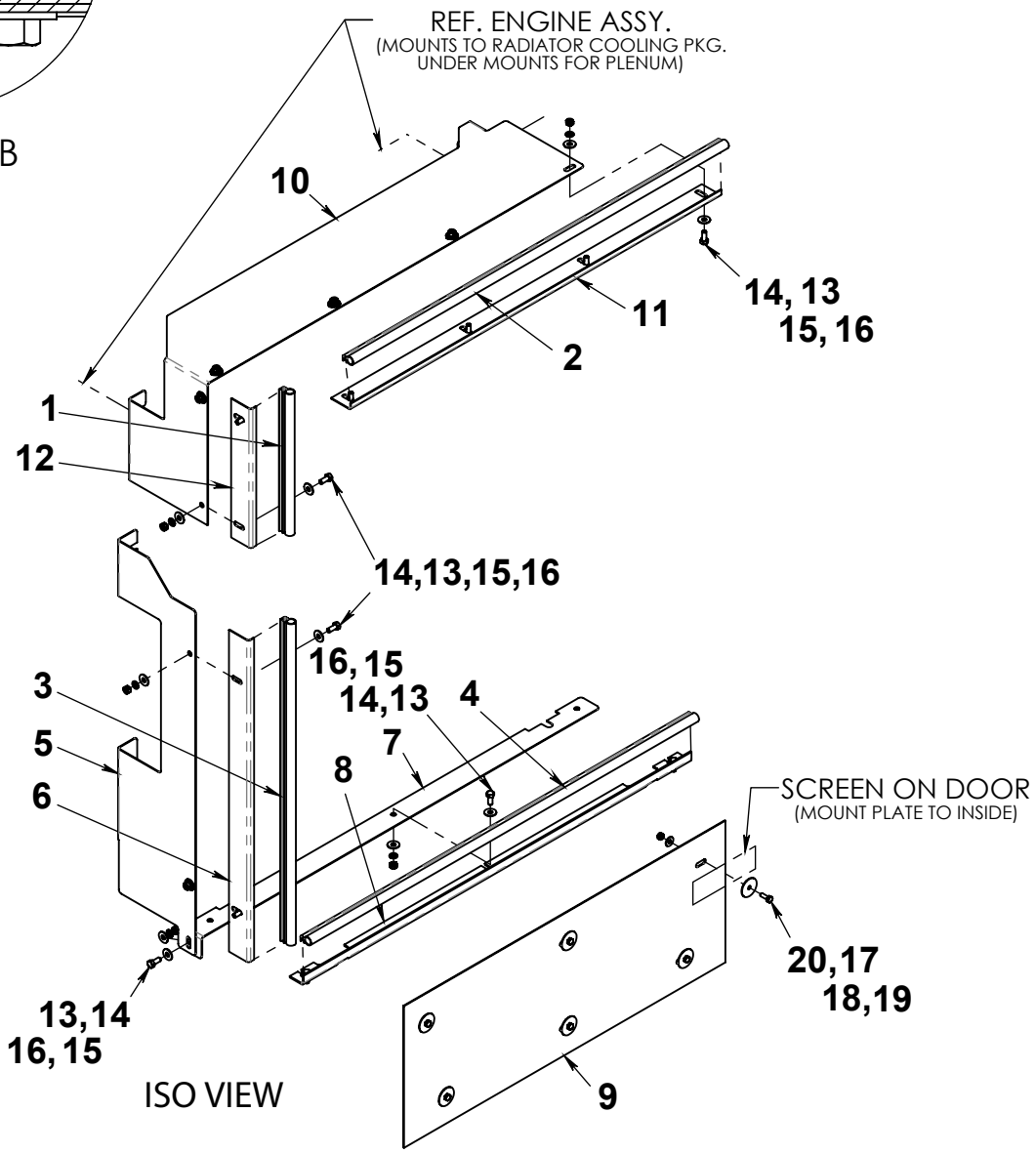
ASSEMBLY- COOLER SHROUD 2500eX
(250010-01)



DETAIL B



SECTION A-A



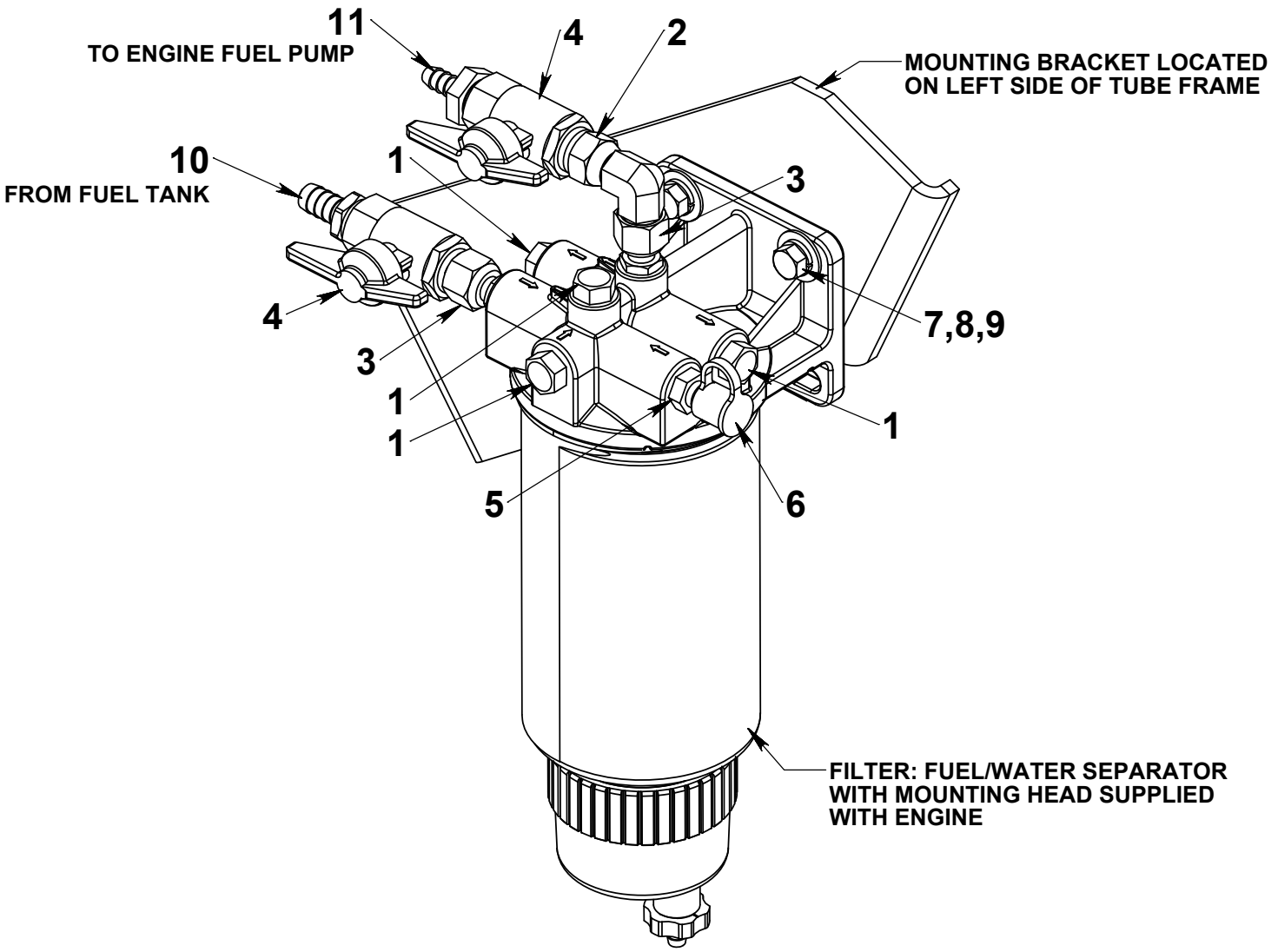
ISO VIEW

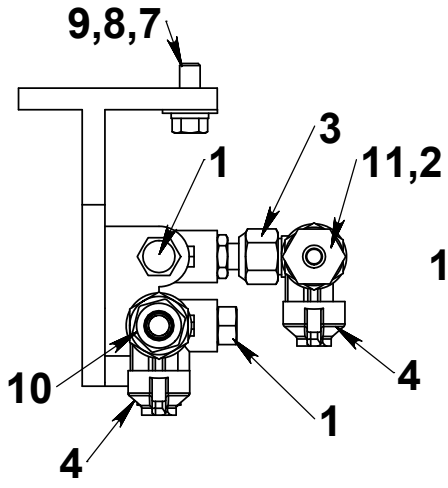
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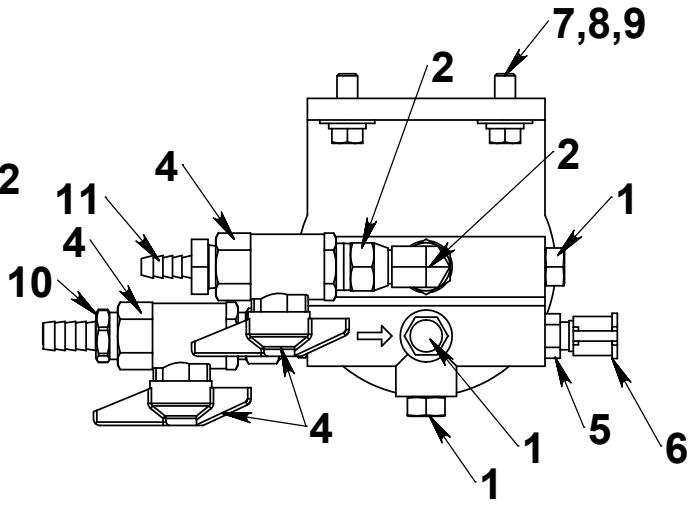
ASSEMBLY- COOLER SHROUD 2500eX
(250010-01)

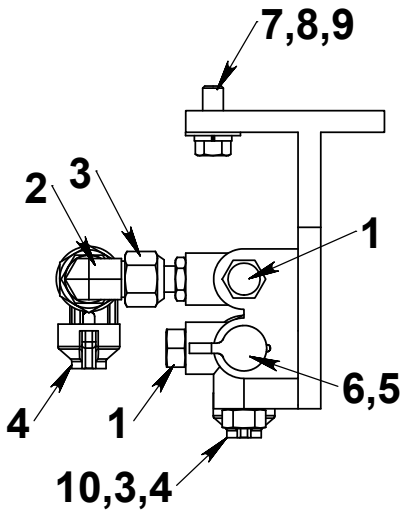
ITEM #	PART #	DESCRIPTION	QTY.
1	250010-01-1	5/8 BULB TRIM - SIDE MOUNT 12 1/2"	1
2	243681-01-2	5/8 BULB TRIM - TOP MOUNT 38 1/4	1
3	250010-01-3	5/8 BULB TRIM - SIDE MOUNT 28 3/8"	1
4	250010-01-4	5/8 BULB TRIM - BOTTOM MOUNT 39 1/2"	1
5	250039-03	DETAIL-BTM SIDE SHROUD 25EX	1
6	250040-03	DETAIL-SL BTM SIDE SHROUD 25EX	1
7	250041-03	DETAIL-BOTTOM SHROUD 25EX	1
8	250042-03	DETAIL-SL BOTTOM SHROUD 25EX	1
9	250043-03	DETAIL-DOOR SHROUD	1
10	250065-02	DETAIL-TOP SHROUD 25EX	1
11	250066-03	DETAIL-SL TOP SHROUD 25EX	1
12	250067-03	DETAIL-SL TOP SIDE SHROUD 25EX	1
13	90871	WASHER ~ FLAT 5/16" STEEL	24
14	87329-04	BOLT ~ HEX 5/16"-18 x 3/4"	12
15	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	12
16	87953-04	NUT ~ 5/16"-18 HEX GRADE 8	12
17	120206	WASHER * FENDER 1/4"	6
18	84444	WASHER * FLAT 1/4" STEEL	6
19	11K76C1	NUT * 1/4-20 NYLON LOCK GRADE 8	6
20	89988-04	BOLT * HEX 1/4"-20 X 3/4"	6

ASSEMBLY-FUEL / WATER SEPARATOR (259617-01)





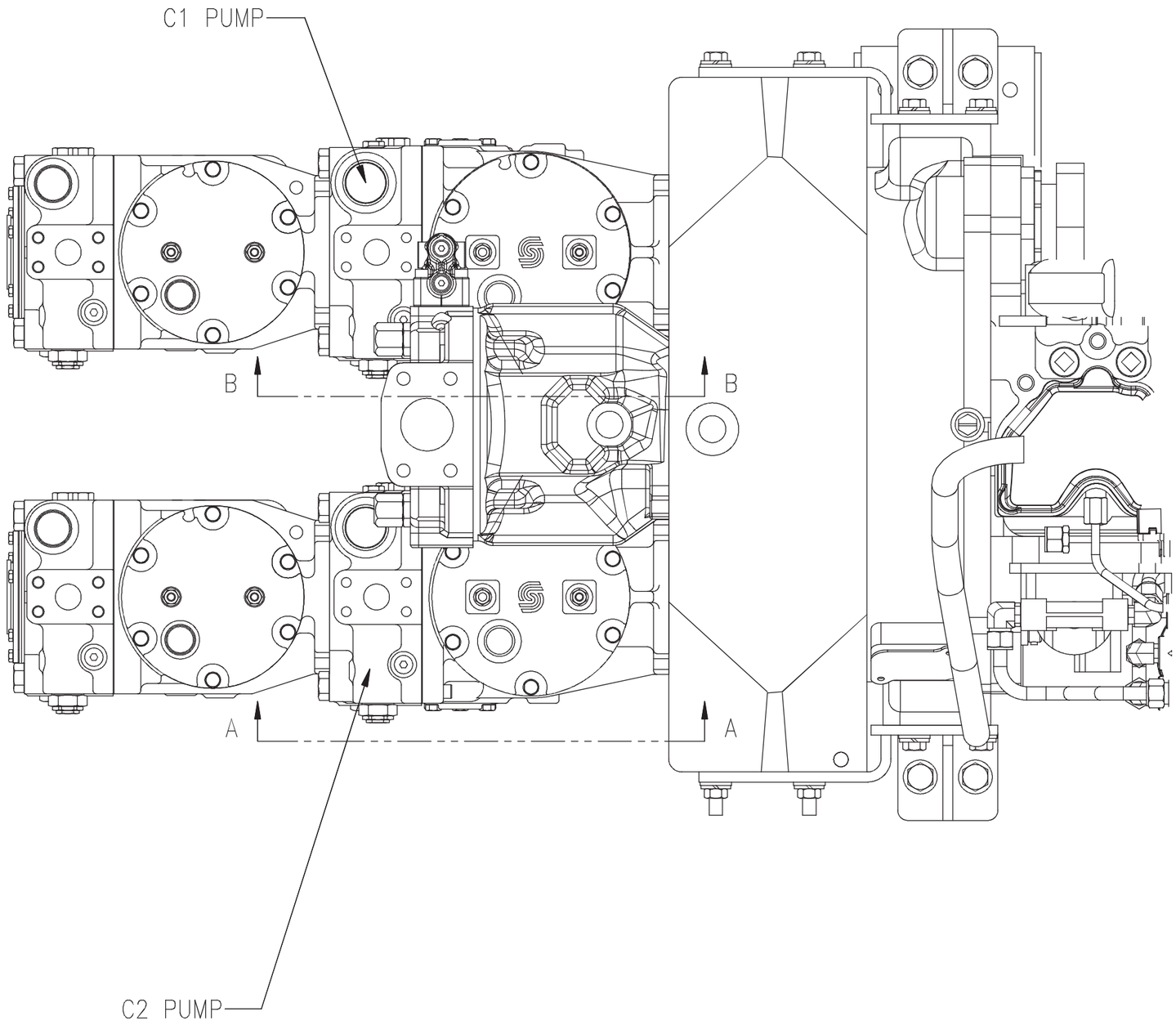


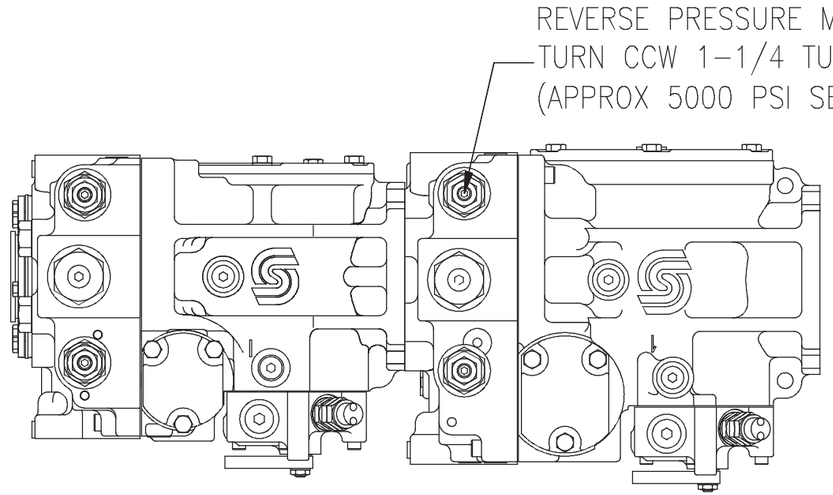


ASSEMBLY-FUEL / WATER SEPARATOR (259617-01)

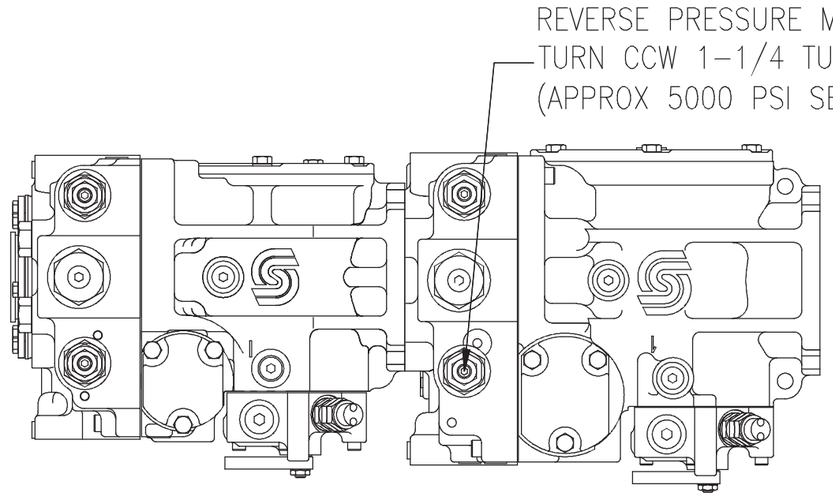
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	84635-04	FIT * PLUG 6 SAE	4
2	83732-04	FIT ~ ELBOW 8JIC M x 8 F 90 SW STL	1
3	208285-04	FITTING * 6 SAE M -8 JIC F SWIVEL	2
4	247893-04	BALL VALVE-1/2 FNPT X 1/2 FLARE	2
5	85948-04	FIT * TEST PORT 6 SAE	1
6	85949-04	FIT * TEST PORT QD CAP 3/8	1
7	84332	BOLT * HEX 3/8"-16 X 1"	2
8	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
9	83757	WASHER ~ FLAT 3/8 STEEL	2
10	136028-04	HOSE BARB * 1/2 NPT-1/2 BARB	1
11	91594	HOSE BARB * 1/2" NPT - 3/8" BARB	1

MODIFICATION- PUMP PRESSURE REDUCTION
(236436-03)





VIEW B-B OF C1 PUMP



VIEW A-A OF C2 PUMP

INSTRUCTION - FAN PUMP MAX. PRESSURE
(241780-03)

INSTRUCTIONS FOR SETTING MAX PRESSURE FOR VARIABLE SPEED COOLING FANS

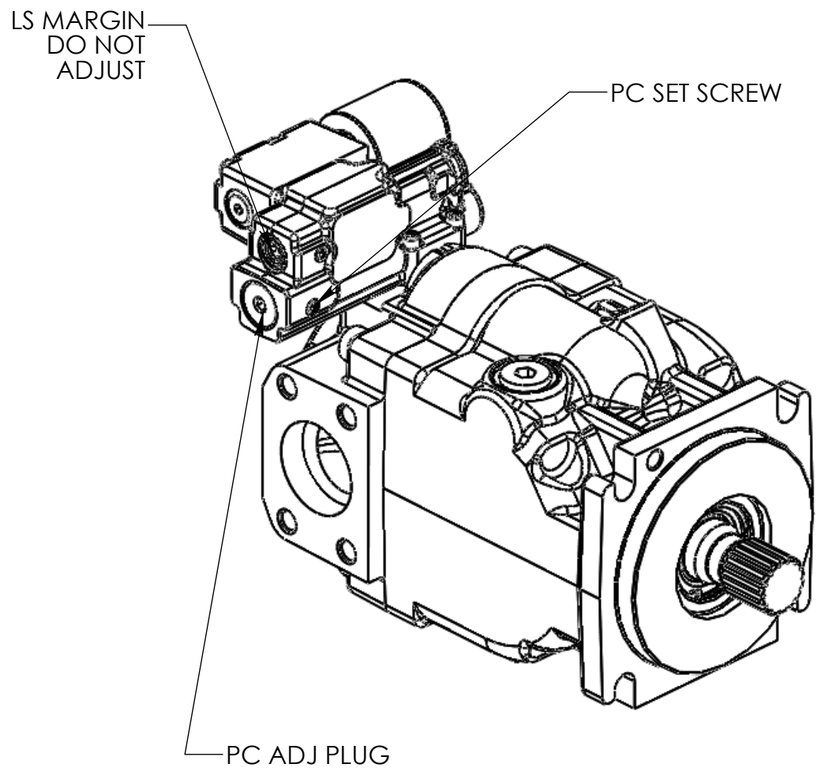
RATIONALE – TO PREVENT OVERSPEEDING FAN OR FAN MOTOR WHEN CONTROL CURRENT IS ZERO, EITHER THRU A MALFUNCTION OR WHEN THE SOLENOID IS DISCONNECTED.

1. INSTALL A 5000 PSI PRESSURE GAUGE ON THE FAN SYSTEM PRESSURE TEST PORT.
    a. IF PRESENT, THE SYSTEM PRESSURE PORT ON PUMP IS EITHER M1 OR M2.
2. RUN THE MACHINE FOR A SUFFICIENT TIME TO WARM UP THE HYDRAULIC OIL. HYDRAULIC OIL TEMPERATURE SHOULD BE ABOVE 100°F.
3. WITH ENGINE AT IDLE.
    a. LOOSEN PC SET SCREW.
    b. TURN PC ADJ PLUG CCW 4 TURNS.
    c. DISCONNECT HARNESS FROM PUMP CONTROLLER.
4. WITH ENGINE AT FULL THROTTLE.
    a. TURN PC ADJ PLUG CW UNTIL REACH DESIRED SYSTEM PRESSURE PER THE CHART BELOW.
    b. RECONNECT PUMP CONTROLLER HARNESS.
    c. VERIFY PUMP PRESSURE DROPS; I.E., THAT CONTROL IS TURNED ON AND PROPERLY WIRED.
5. ENGINE OFF.
    a. HOLD PC ADJ PLUG & TIGHTEN PC SET SCREW TO 25 – 50 FT-LB.
    b. REMOVE TEST PORT.

MODEL	MAX FAN PRESSURE WHEN DISCONNECTED
MTV-1000e	TBD
RP-190e w/C7.1	2,800 PSI
RP-195e w/C7.1	2,525 PSI
RX-400e	1,800 PSI
RX-600e	2,200 PSI
RX-700e	3,100 PSI
RX-900e	4,175 PSI
SB-1500e	TBD
SB-2500e	2,500 PSI
SB-2500ex	1,775 PSI
SP-200e	3,050 PSI
SX-4e	2,500 PSI
SX5	2,000 PSI
SX-6e	3,500 PSI
SX-8e	3,500 PSI

OTHER MODELS WILL BE ADDED WHEN APPROPRIATE.

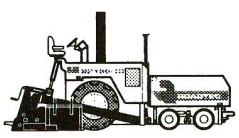
Rev A 11/22/11, ADDED RX600e MAX PRESSURE.
Rev B 3/22/12, ADDED SX4e, SB2500ex AND RP190e
Rev C 5/31/12, ADD RX700e MAX PRESSURE

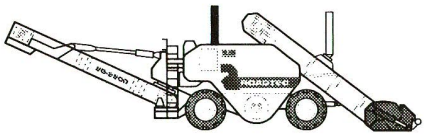


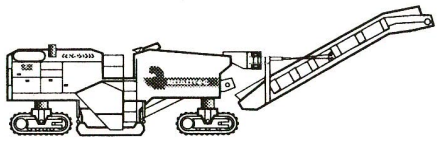
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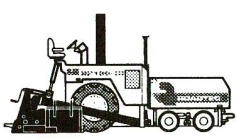
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

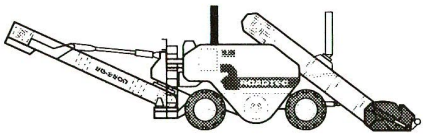
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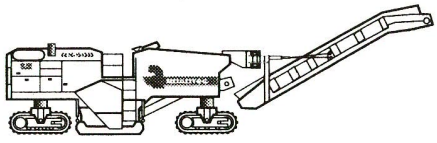
ROADTEC
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MATERIAL TRANSFER VEHICLES
COLD PLANERS
PAVERS
423-265-0600 • FAX 423-265-7521

TOLL FREE 800-272-7100







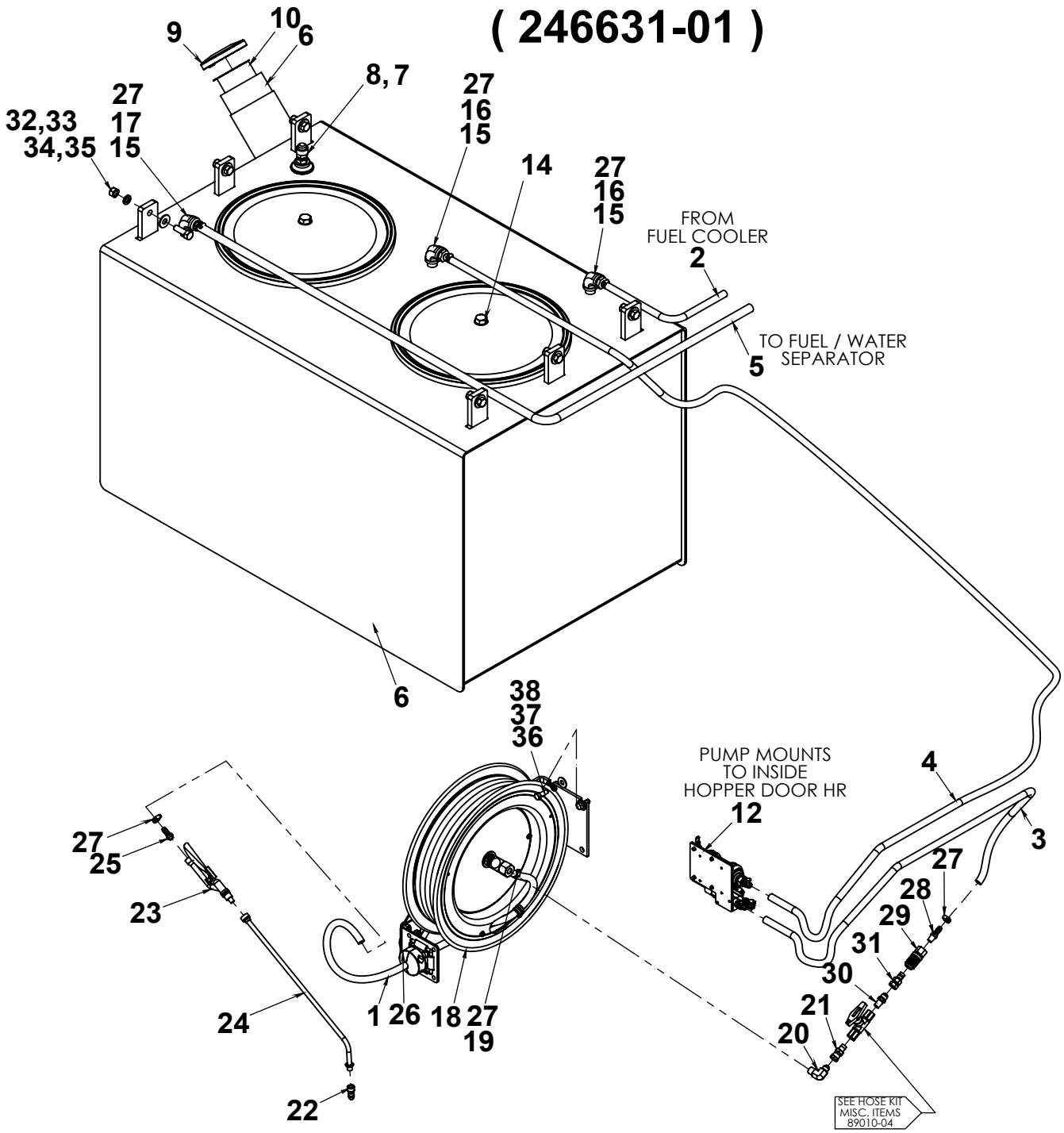
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

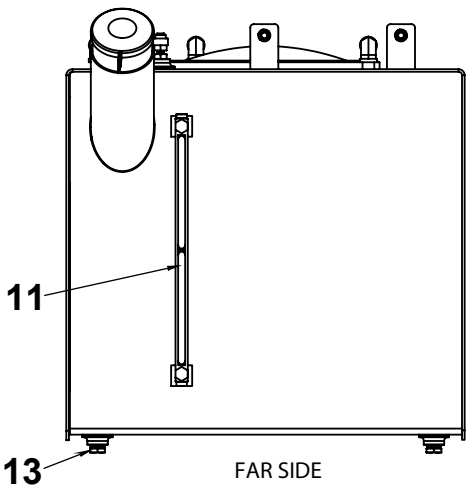
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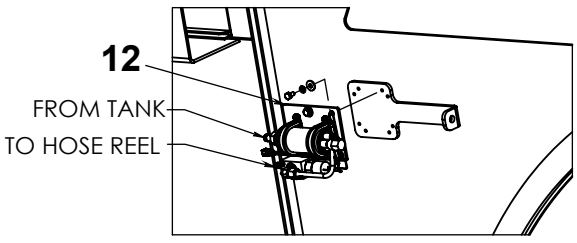
SECTION 2 : FRAME ASSEMBLIES

ASSEMBLY	PART NO.	S/N	PAGE NO.
FUEL TANK	246631-01	2070 & UP	2.1
MAINFRAME	255613-01	3013 & UP	2.3
DECAL KIT	254652-01		2.11
HOOD & SLIDING PLATFORM	253048-01		2.25
SLIDING PLATFORM	253050-01		2.31
HOOD RAILS	244135-01		2.35
HOOD INSULATION	253201-01		2.37
KIT-HOOD HEAT INSULATION	253203-01		2.38
MIRROR	202080-01		2.40

ASSEMBLY- FUEL TANK SB-2500e/2500eX
(246631-01)







CROPPED VIEW
INSIDE HOPPER DOOR RH

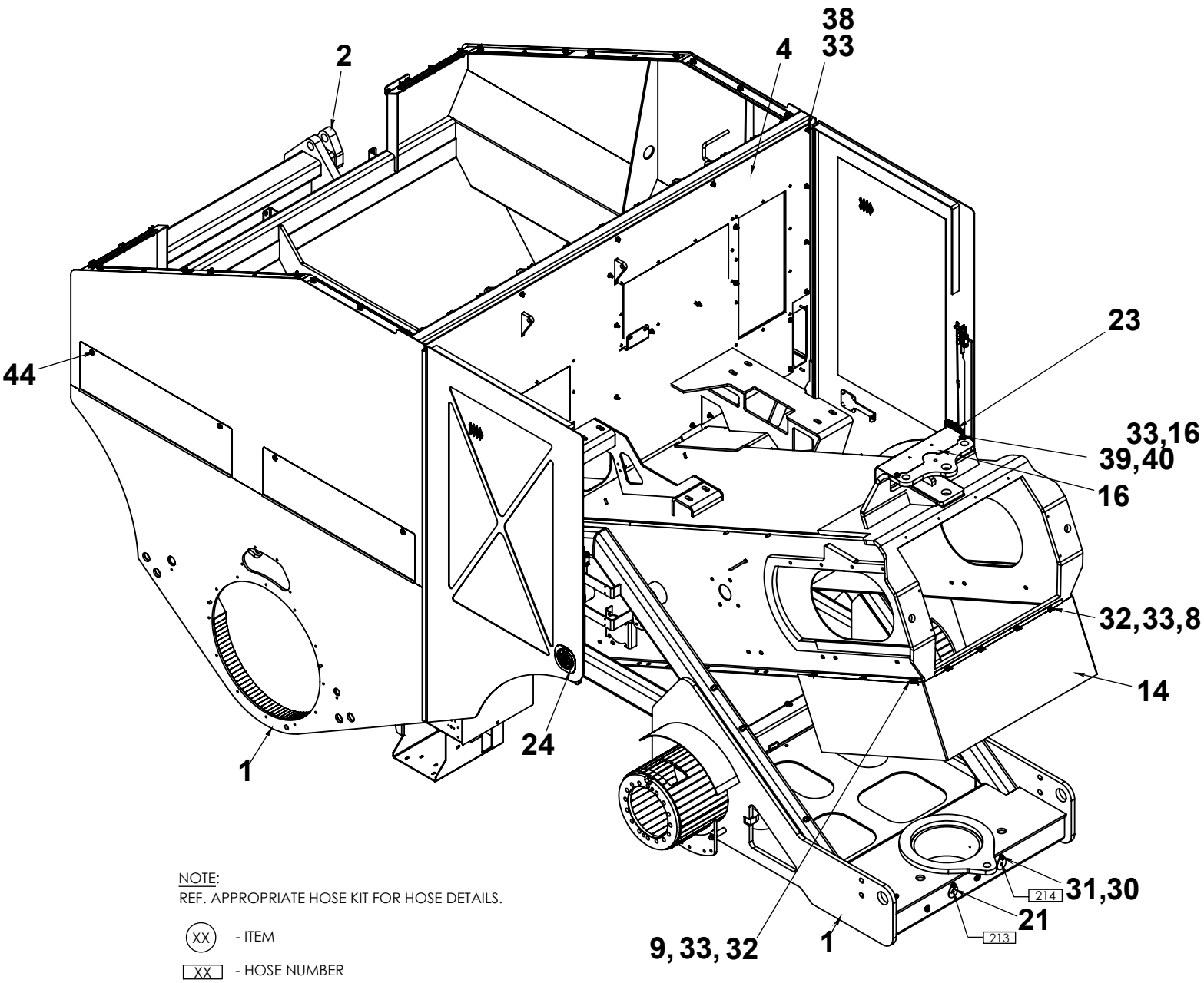
ROADTEC
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ASSEMBLY- FUEL TANK SB-2500e/2500eX
(246631-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	246631-01-1	HOSE, 3/8 FUEL & WATER X 600" LG.	1
2	246631-01-2	HOSE, 3/8" FUEL & WATER X 34" LG.	1
3	246631-01-3	HOSE, 3/8" FUEL & WATER X 54"	1
4	246631-01-4	HOSE, 3/8" FUEL & WATER X 130"	1
5	246631-01-5	HOSE, 1/2" FUEL & WATER X 133" LG.	1
6	246656-01	WELDMENT-FUEL TANK	1
7	89608	FIT * 1/2"NPTM X 1/4"NPTF RED.BUSH.	1
8	27X25	VALVE * FUEL TANK VENT 15-20 PSI	1
9	98027	ENGINE ~ FUEL CAP (NON-VENTED)	1
10	803546	FILTER * STRAINER	1
11	29L61	GAUGE * FUEL TANK LEVEL SIGHT TUBE	1
12	241706-02	ASSEMBLY * AIRTEX FUEL PUMP 24V	1
13	97032	PIPE PLUG ~ 3/4" NPT HEX HEAD	2
14	208510-04	COVER * 16" RESERVOIR	2
15	205698-04	FIT * 1/2 90 NPT FEMALE A576 STL	3
16	91594	HOSE BARB * 1/2" NPT - 3/8" BARB	2
17	136028-04	HOSE BARB * 1/2 NPT-1/2 BARB	1
18	131616-04	HOSE REEL * HEAVY DUTY 35	1
19	80187	HOSE BARB * 3/8 NPT X 3/8 BARB	1
20	85466-04	FIT * ELBOW 6 JIC X 3/8 NPT 90 DEG	1
21	86622-04	FIT * 1/4 NPT M - 6 JIC FEM SWIVEL	1
22	128843	SPRAY NOZZLE 289-4590	1
23	128842	HAND SHUT OFF	1
24	128844	WAND-EXT 18" 318-5238	1
25	80553-04	HOSE BARB * BARBED 1/8" X 3/8"	1
26	145619-04	RUBBER * RUBBER STOP	1
27	45228	CLAMP * 3/8"- 1/2 WORM	8
28	80349-04	HOSE BARB * 1/4"NPT X 3/8" BARB	1
29	85947-04-C3	KIT * FEMALE TESTPORT DISCONNECT	1
30	86170-04	FIT * ADAPTER 6 JIC -1/4 NPT M.	1
31	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
32	93144	BOLT * HEX 1/2"-13 X 1 1/2"	6
33	83317	WASHER * LOCK 1/2" SPRING STEEL	6
34	83781-04	WASHER * FLAT 1/2" STEEL	6
35	83288	NUT * 1/2"-13 HEX GRADE 8	6
36	84332	BOLT * HEX 3/8"-16 X 1"	4
37	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
38	83757	WASHER ~ FLAT 3/8 STEEL	4

ASSEMBLY-MAINFRAME, 2500e T4 QSL9 (255613-01)

NEXT PAGE



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

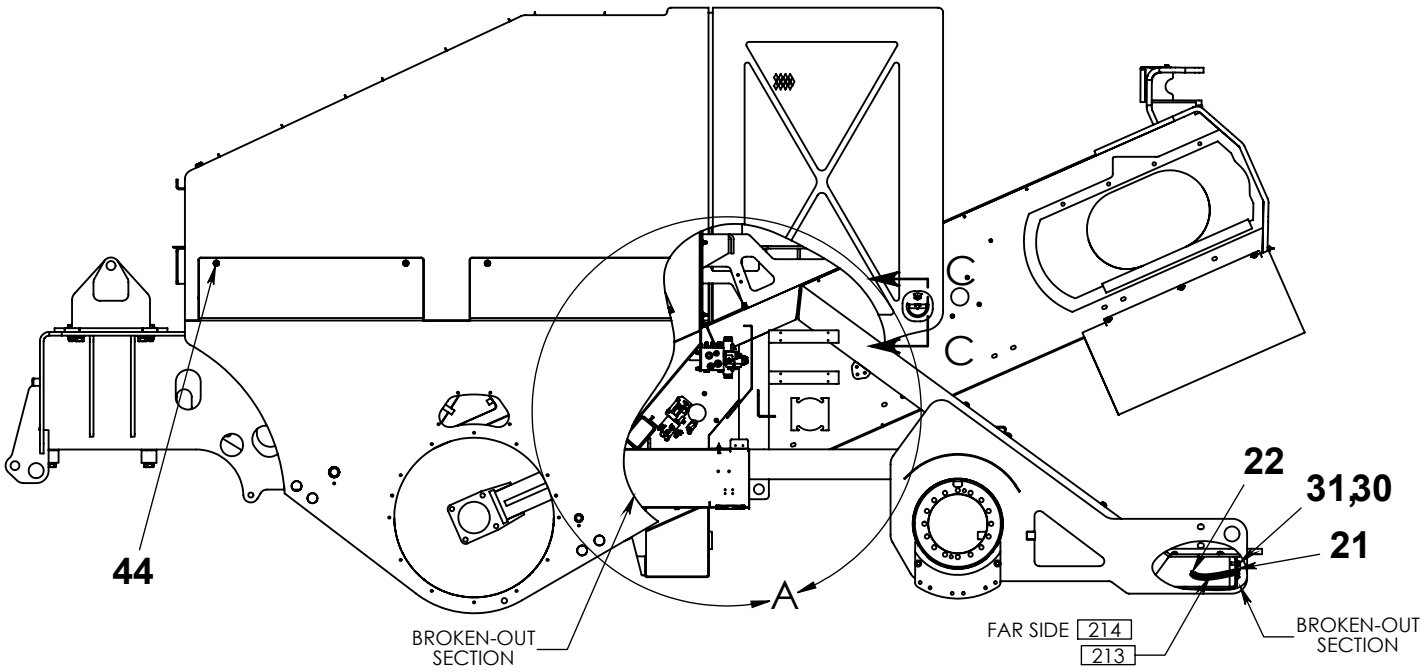
(XX) - ITEM

[XX] - HOSE NUMBER

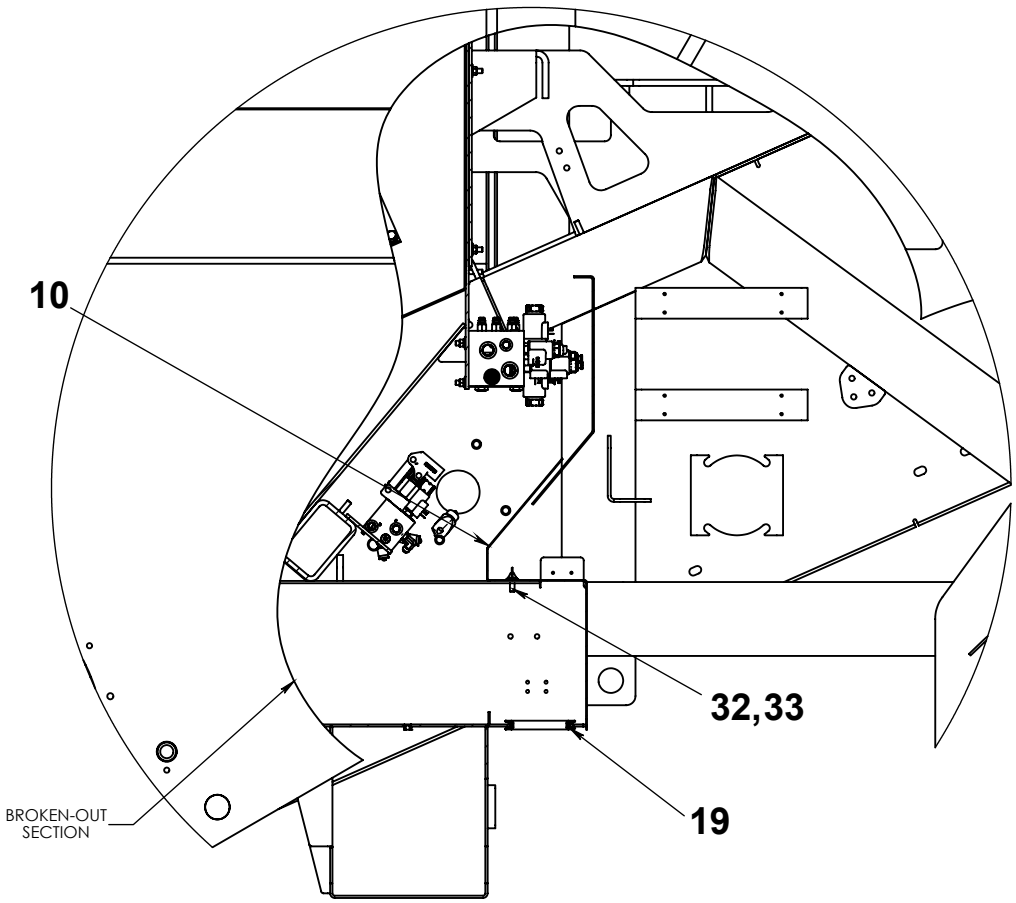
* GREASE LINES ARE SUPPLIED W/HOSE KIT

ROADTEC an Astec Industries Company

ASSEMBLY-MAINFRAME, 2500e T4 QSL9 (255613-01)



LEFT SIDE VIEW

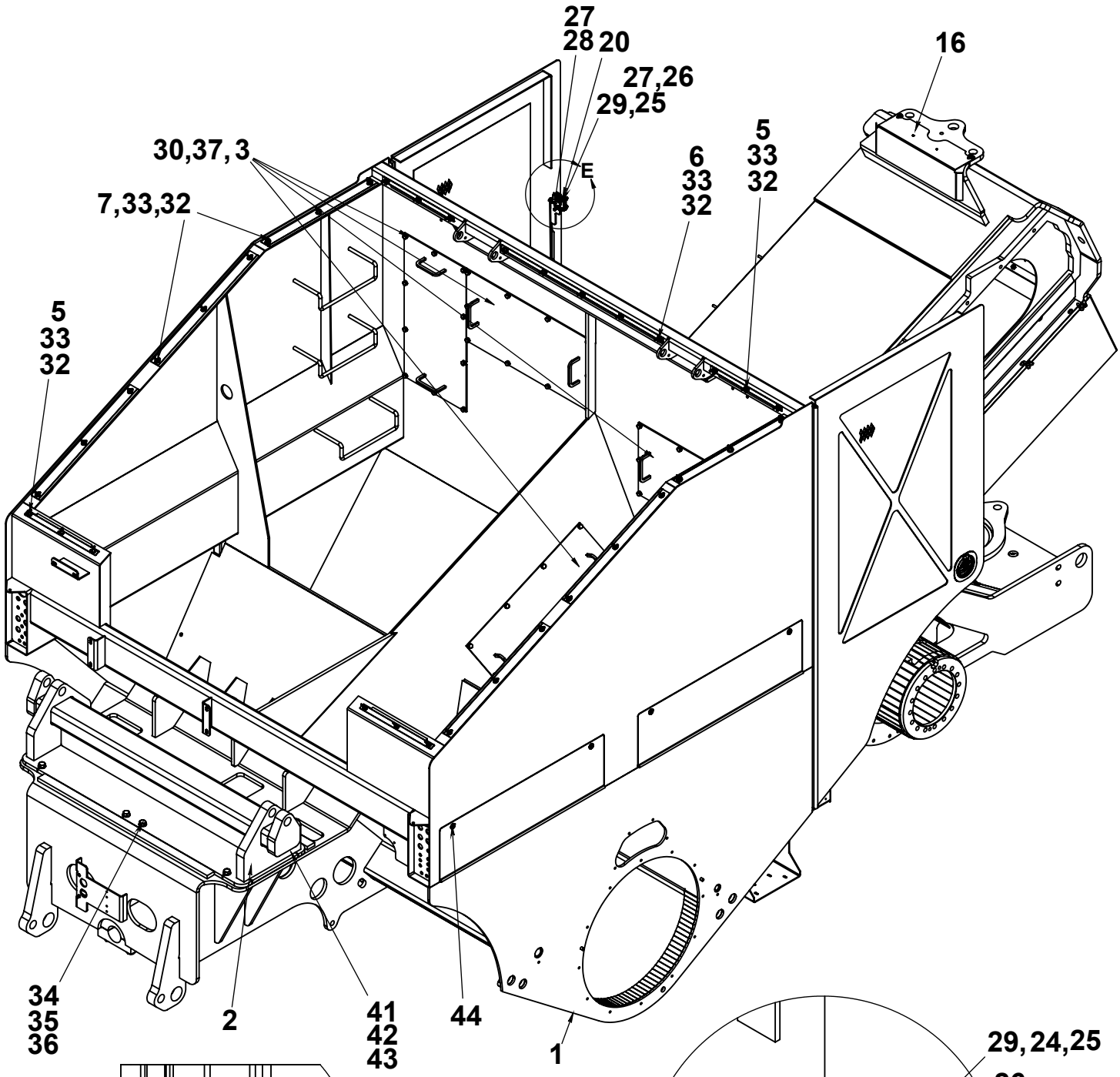


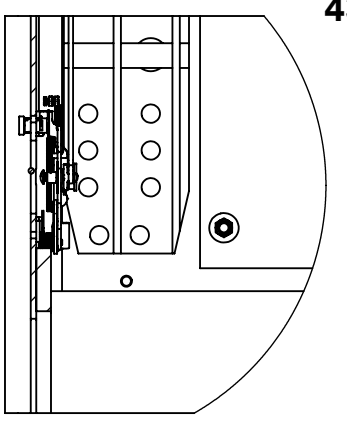
DETAIL A

ROADTEC an Astec Industries Company

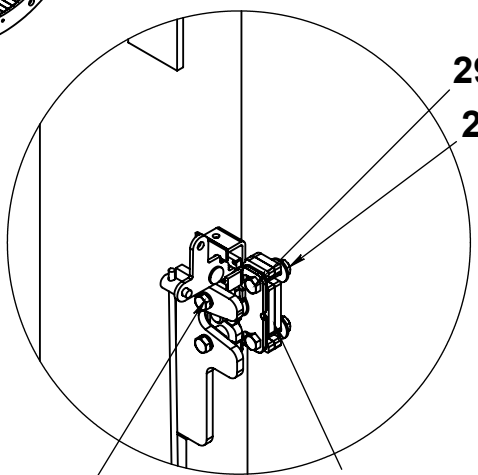
PREVIOUS PAGE

ASSEMBLY-MAINFRAME, 2500e T4 QSL9 (255613-01)





SECTION C-C



DETAIL E

ROADTEC
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ASSEMBLY-MAINFRAME, 2500e T4 QSL9 (255613-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	255614-01	WELDMENT-MAINFRAME SB-2500E T4	1
2	234783-01	WELDMENT-RIGID C1 PIVOT	1
3	133318-01	WELDMENT-ACCESS COVER	4
4	248774-01	INSULATION-REAR WALL SB-2500E T4	1
5	224214-03	DETAIL-CANVAS CLAMP BAR 19 1/2"	4
6	200146-03	DETAIL-CANVAS CLAMP BAR 44 1/4"	1
7	204707-03	DETAIL-CANVAS CLAMP BAR 30"	6
8	148179-03	CANVAS CLAMP BAR ~ 38"	1
9	147387-03	DETAIL-CANVAS CLAMP BAR 34"	2
10	235986-03	DETAIL-BATTERY BOX LID-SB-2500E T4	1
11 *	128390	GREASE NIPPLE COVER (RED ONLY))	65
12 *	83657-04	WIRE TIE * 1/8" X 7" NYLON (NOT SHOWN)	150
13 *	83905-04	WIRE TIE * 1/4" X 14" NYLON (NOT SHOWN)	150
14	129119-01	COVER * VINYL FOR FUME COLLECTOR	1
15 *	144258-01R	COVER * RH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
16	241482-03	WELDMENT-C3 PIVOT GUARD SB-2500E	1
17 *	144258-01L	COVER * LH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
18 *	205446-01	COVER * OPERATORS ACCESS CANVAS (NOT SHOWN)	1
19	235957-01-19	MOLDING * 1/2" INTERLOCK 10"	1
20	246106-03	DETAIL-LATCH SPACER, 2500E	4
21	235242-03	DETAIL-GREASE LINE BRACKET	2
22	83742-04	FIT ~ CONNECTOR 4 JIC - 1/8" NPT M.	2
23	245262-03	HANDLE-EZ GRAB EGA RTC-001-LH	1
24	244534-03	HANDLE-EZ GRAB EGA RTC-001-RH	1
25	84444	WASHER * FLAT 1/4" STEEL	4
26	11K76C1	NUT * 1/4-20 NYLON LOCK GRADE 8	4
27	83065	WASHER * LOCK 1/4" SPRING STEEL	5
28	89773	BOLT * HEX 1/4"-20 X 1"	4
29	90763	BOLT * HEX 1/4"-20 X 1 1/4"	5
30	83317	WASHER * LOCK 1/2" SPRING STEEL	42
31	93144	BOLT * HEX 1/2"-13 X 1 1/2"	2
32	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	47
33	83757	WASHER ~ FLAT 3/8 STEEL	80
34	95930	BOLT * HEX 3/4"-10 X 2 3/4"	8
35	95937	WASHER * FLAT 3/4" HARD	16
36	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	8
37	86164	BOLT * HEX 1/2"-13 X 1 1/4"	40
38	83055	NUT * 3/8-16 HEX GRADE 8	31
39	84332	BOLT * HEX 3/8"-16 X 1"	2
40	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
41	97316	BOLT * HEX 1"-8 X 3"	4
42	83427	WASHER ~ LOCK 1" SPRING STEEL	4
43	10S89	WASHER ~ FLAT 1" A325	4
44	234352-04	RECESSED SLOT DOOR LATCH	8

* NOT SHOWN

DECAL KIT - SB2500eX
(254652-01)

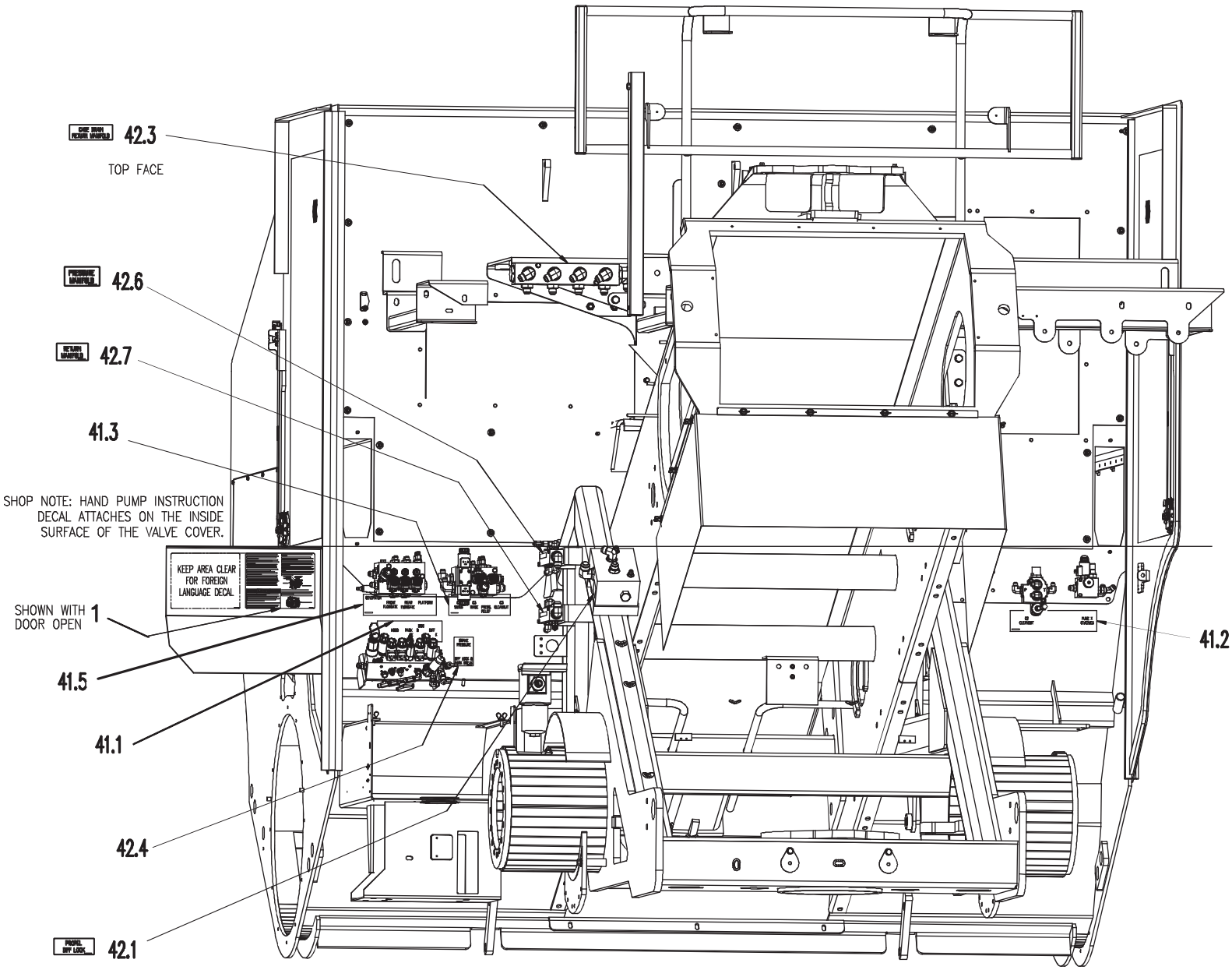
ITEM #	PART NO.	DESCRIPTION	QTY.
1	236389-02	DECAL - HAND PUMP INSTRUCTIONS	1
2	241524-04	DECAL - CONVEYOR ADJUSTMENT	6
3	241798-04	DECAL - WARNING! DISCHARGE AREA	2
4	241884-03	DECAL - BATTERY WARNING	1
5	211262-04	DECAL - WARNING DISCHARGE AREA	2
6	95906-03	DECAL - AMERICAN FLAG 8 1/4" X 15"	2
7	95875-02	DECAL - SHUTTLE BUGGY (BLUE)	2
8	211263-04	DECAL - PINCH POINT	7
9	241806-04	DANGER! CRUSH ZONE SET SAFETY SUPPORTS	4
10	211266-04	DECAL - DANGER! PINCH / CRUSH AREA	6
11	211256-04	DECAL - EAR PROTECTION	2
12	211259-04	DECAL - DANGER! PINCH / CRUSH AREA	2
13			
14	SEE PAINT BOM	DECAL - SB-2500ex	REF
15	SEE PAINT BOM	DECAL - PATENT PLATE	REF
16	99535-04	DECAL - WASHDOWN	1
17	96088-04	DECAL - GREASE HERE 1" X 2"	42
18	223987-04	DECAL - USE 50/50 WATER / ANTIFREEZE MIX	1
19	144443-04	DECAL - C3 CLEANOUT DOOR	1
20	241814-04	DECAL - CAUTION NO SMOKING	1
21	95885-04	DECAL - DIESEL FUEL ONLY	1
22	211274-04	DECAL - TOW TIE DOWN POINT	4
23	89716-04	DECAL - SLOW MOVING SAFETY	1
24	89715-04	DECAL - FUEL	1
25	242771-01	DECAL - SB-2500ex LUBE CHART	1
26	211265-04	DECAL - DANGER! PINCH / CRUSH AREA	5
27	122129-04	DECAL - FIRE EXTINGUISHER	1
28	229618-03	DECAL - C3 LIFT WARNING	2
29	236591-04	DECAL - NO STARTING FLUID, T4	2
30			
31			
32	211257-03	DECAL - NOTICE OIL LEVEL	1
33	135910-04	DECAL - FXS TRADEMARK	2
34	241628-03	DECAL - CHAIN TENSION GUIDE	3
35	241787-03	DECAL - HYDRAULIC TANK	1
36	241591-04	DECAL - DANGER! CRUSH & TIRE PRESSURE	4
37	241585-03	DECAL - DANGER! NO RIDERS (ON FUEL TANK)	2
38	211264-04	DECAL - CAUTION! NO SMOKING	2
39	211268-04	DECAL - DANGER! ENTANGLEMENT HAZARD	5
40	241818-03	DECAL - CENTER CONSOLE	2
41	239666-01	DECAL -VALVE LABELS	1
42	242339-03	DECAL - VALVE LABELS	1
43	SEE PAINT BOM	DECAL - SERIAL NUMBER ID PLATE	REF
44	SEE PAINT BOM	DECAL - BLACK & YELLOW CAUTION TAPE	REF
45			

DECAL KIT - SB2500eX
(254652-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
46	202078-04	DECAL - ON / OFF	1
47	240439-04	DECAL - CLOSE GATES, DRIVER CONSOLE	1
48	241807-04	DECAL - BATTERY LOCK OUT / TAG OUT	1
49	211276-04	DECAL - UNAUTHORIZED PERSONNEL - KEEP BACK	2
50	211269-04	DECAL - SAFE TRAVEL GRADE	1
51	211270-04	DECAL - WARNING! BURN HAZARD	7
52	211348-04	DECAL - SAFE TRAVEL GRADE	1
53	211275-04	DECAL - TIE DOWN POINT	8
54	SEE PAINT BOM	DECAL - ROADTEC W/ R LOGO 99"	REF
55	SEE PAINT BOM	DECAL - 3M REFLECTIVE TAPE DOT RED / WHITE	REF
56	SEE PAINT BOM	RIVET - GAMD45A/1/8" X 1/2"	REF
57	225311-03	DECAL - DANGER ENTANGLEMENT - HOOD	1
58	225312-03	DECAL - DANGER FALL HAZARD - HOOD	1
59	225305-03	DECAL - NOTICE HOOD RAILS	1
60	229652-04	DECAL - PINCH POINT	6
61	229657-04	DECAL - LATCH, HOOD HANDRAILS	2
62	229619-03	DECAL - C-3 LIFT NOTICE	2
63	238791-03	DECAL - 24V ELECTRICAL SYSTEM	1
64	242320-04	DECAL - TEST PORT PROPEL	1
65	242321-04	DECAL - TEST PORT FORWARD	1
66	251820-04	DECAL - C-2 CLEAN-OUT DOOR	1

DECAL KIT - SB-2500eX
(254652-01)

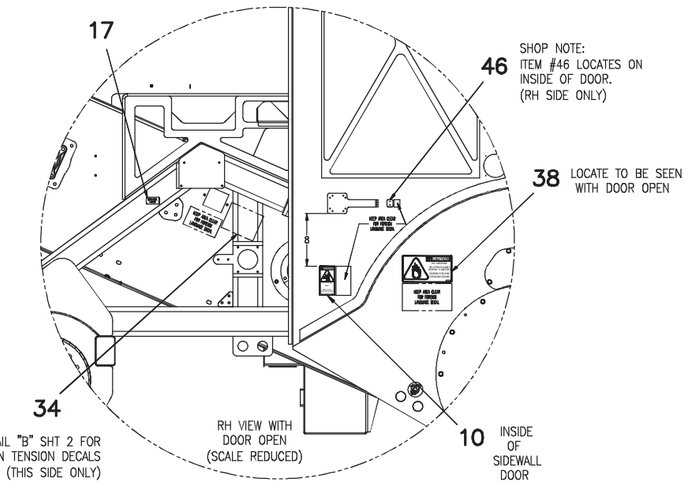
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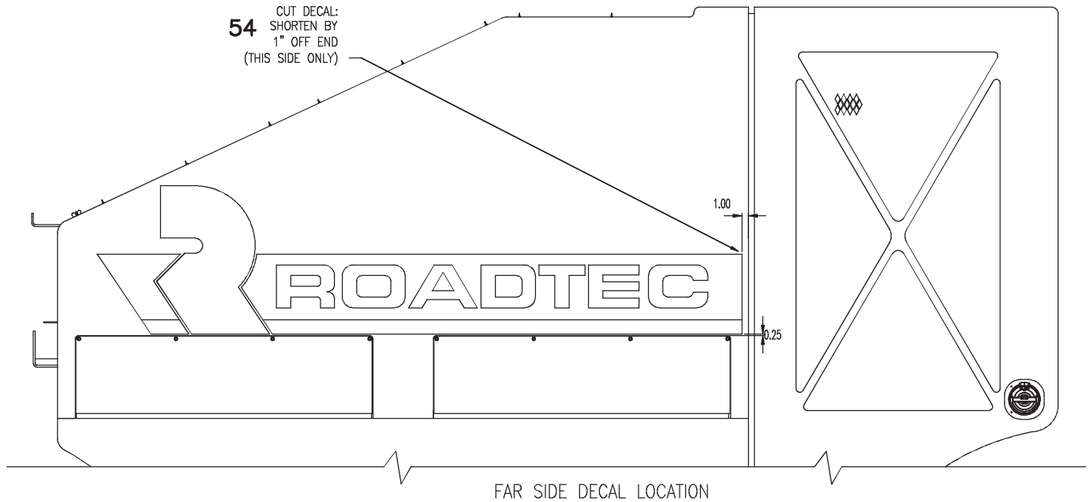


BACK VIEW

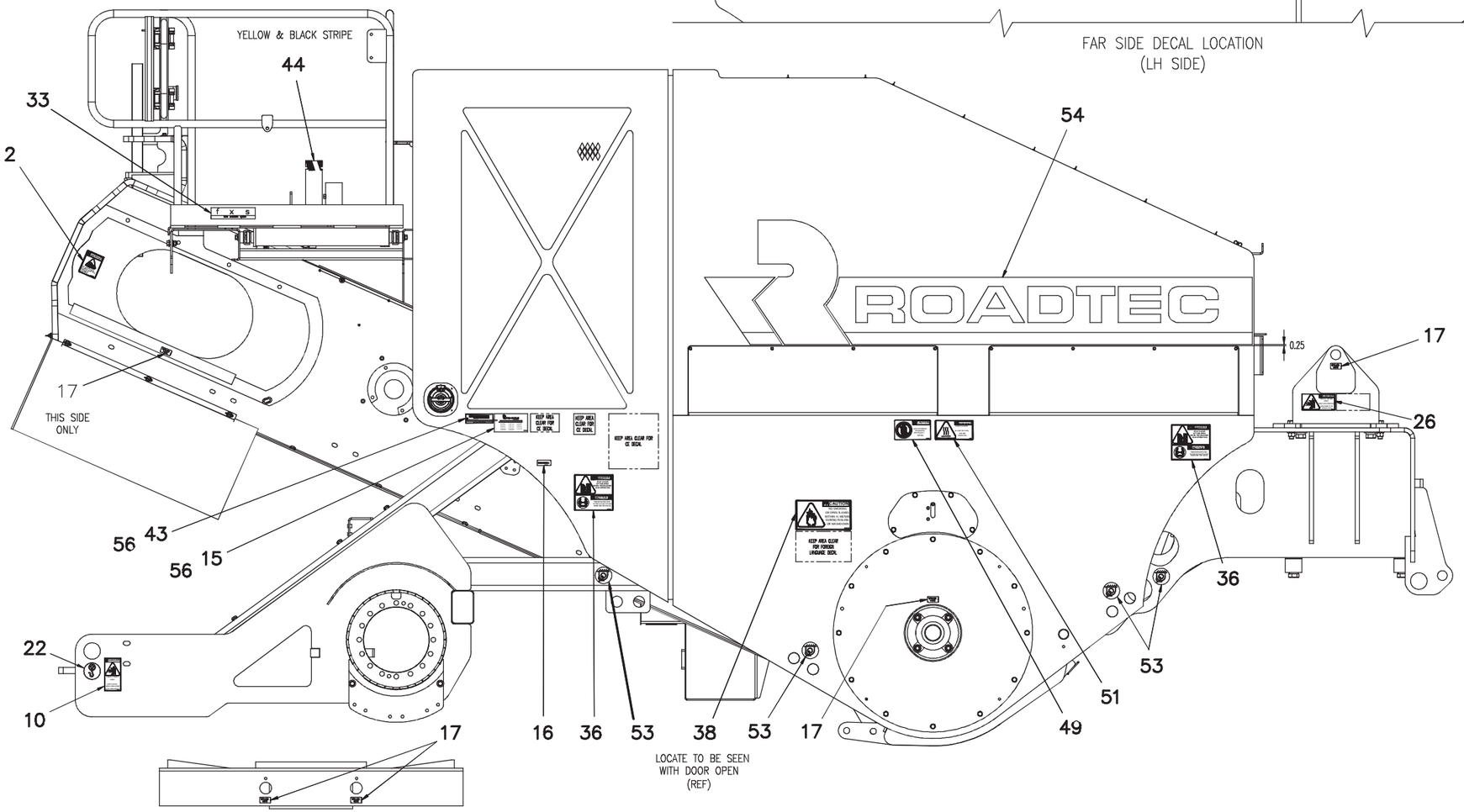
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DECAL KIT - SB-2500eX
(254652-01)





FAR SIDE DECAL LOCATION
(LH SIDE)

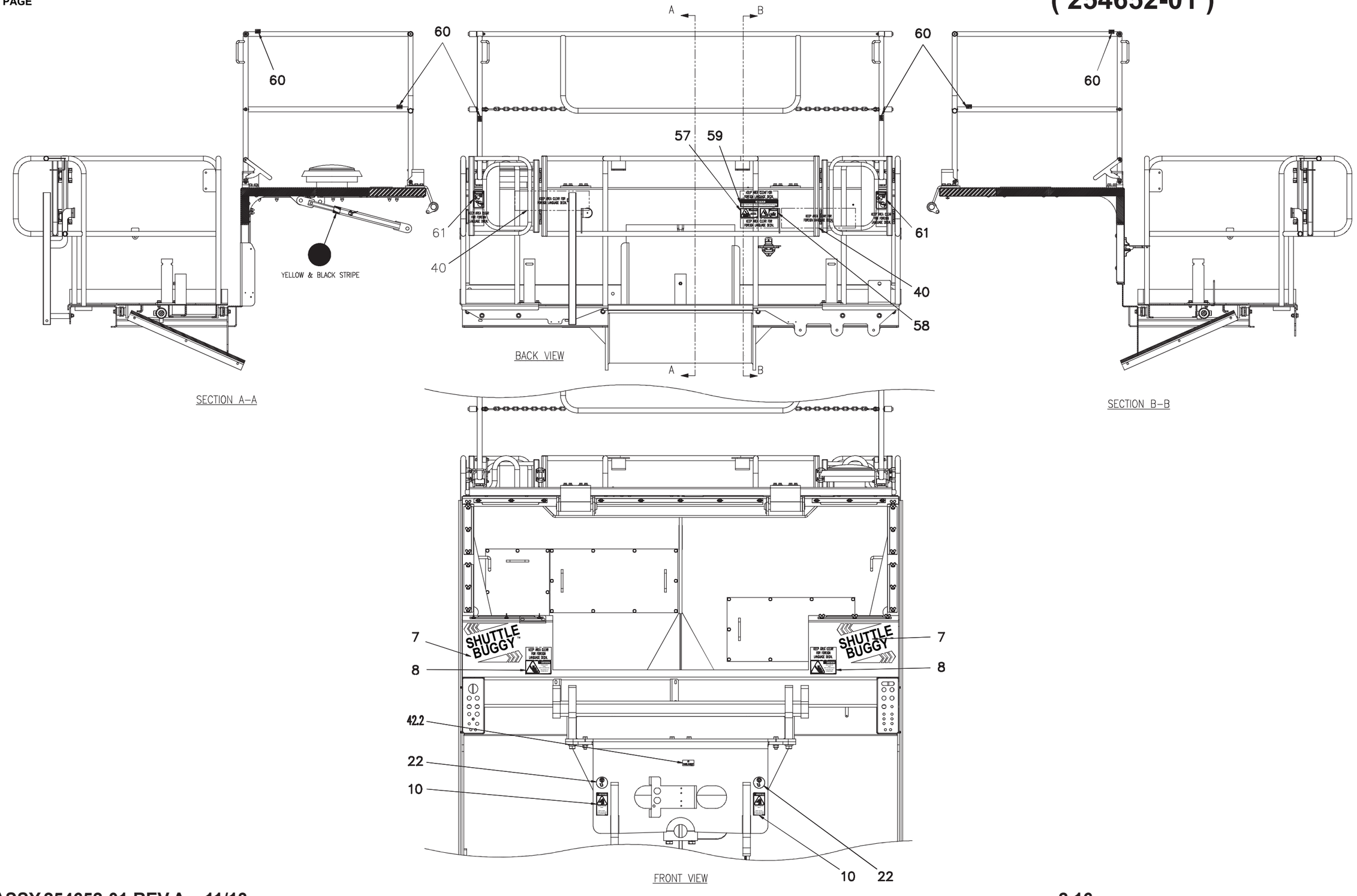


REAR VIEW OF C3 PIVOT BOX

VALVE LABEL NOTE:
EACH VALVE LABEL CONTAINS MULTIPLE DECALS.
EACH DECAL HAS IT'S OWN SUB PART NUMBER.
BALLOONS FOR THESE DECALS HAVE A DECIMAL
POINT AND A NUMBER THAT CORRESPONDS TO
THE DECAL SUB PART NUMBER.

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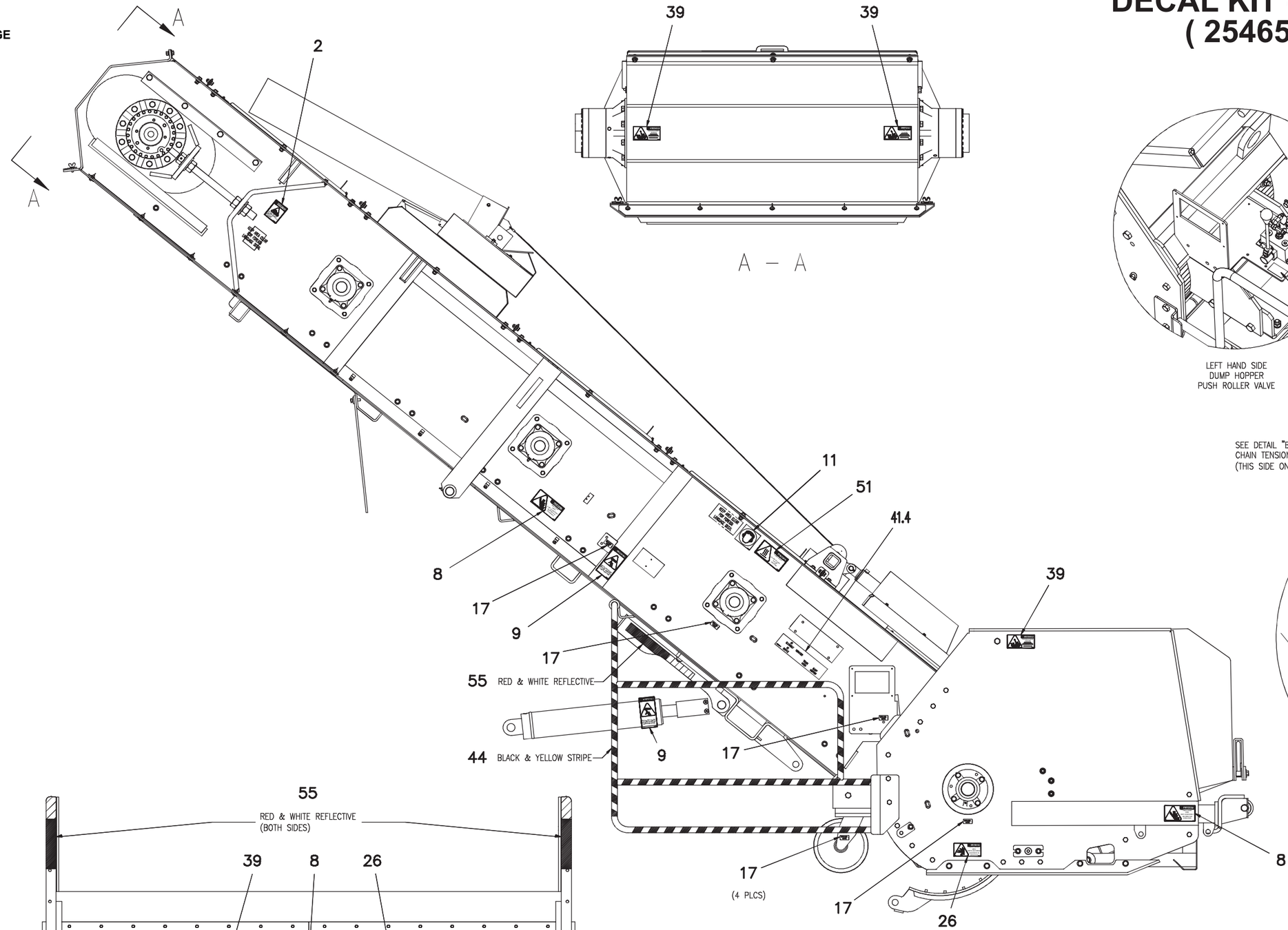
DECAL KIT - SB-2500eX
(254652-01)



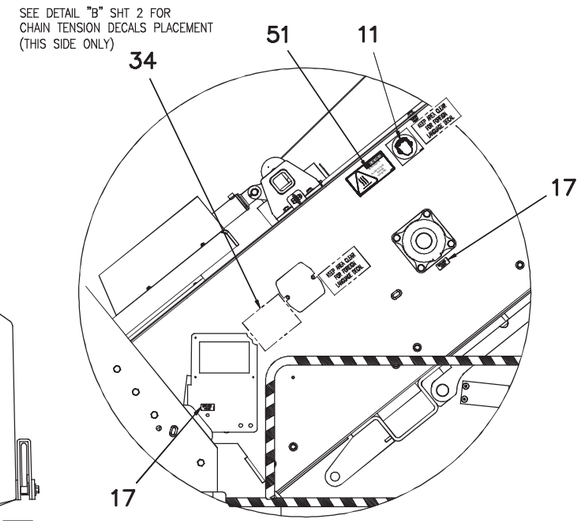
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DECAL KIT - SB-2500eX
(254652-01)



LEFT HAND SIDE
DUMP HOPPER
PUSH ROLLER VALVE



LEFT SIDE

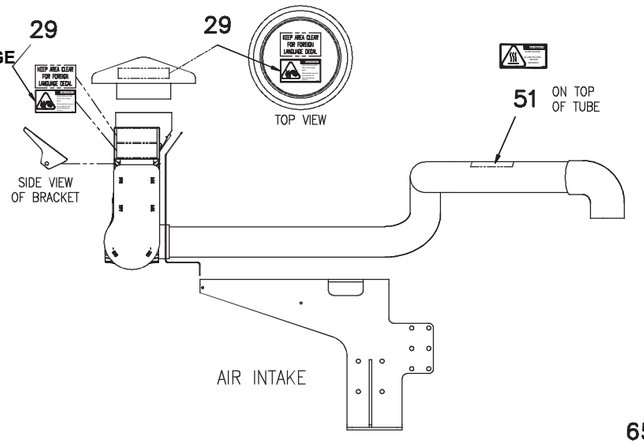
FRONT VIEW OF C1

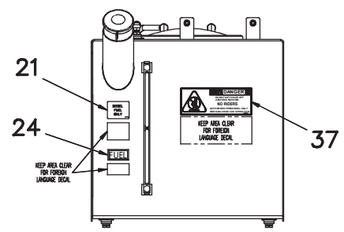
RH VIEW OF C1

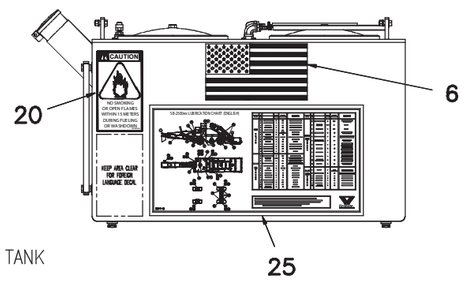
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DECAL KIT - SB-2500eX
(254652-01)

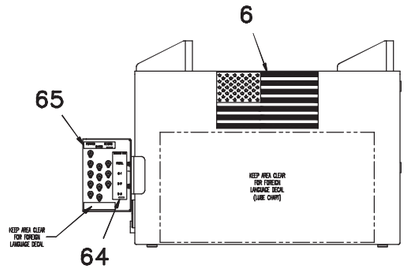
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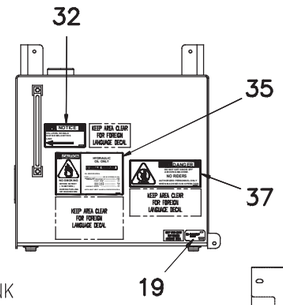




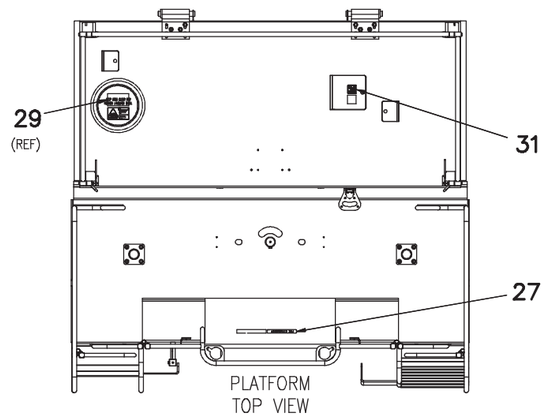


FUEL TANK

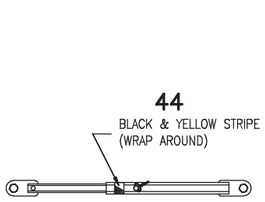




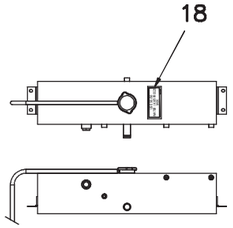
HYDRAULIC TANK



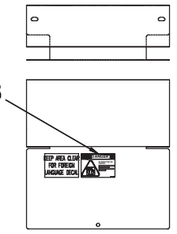
PLATFORM
TOP VIEW



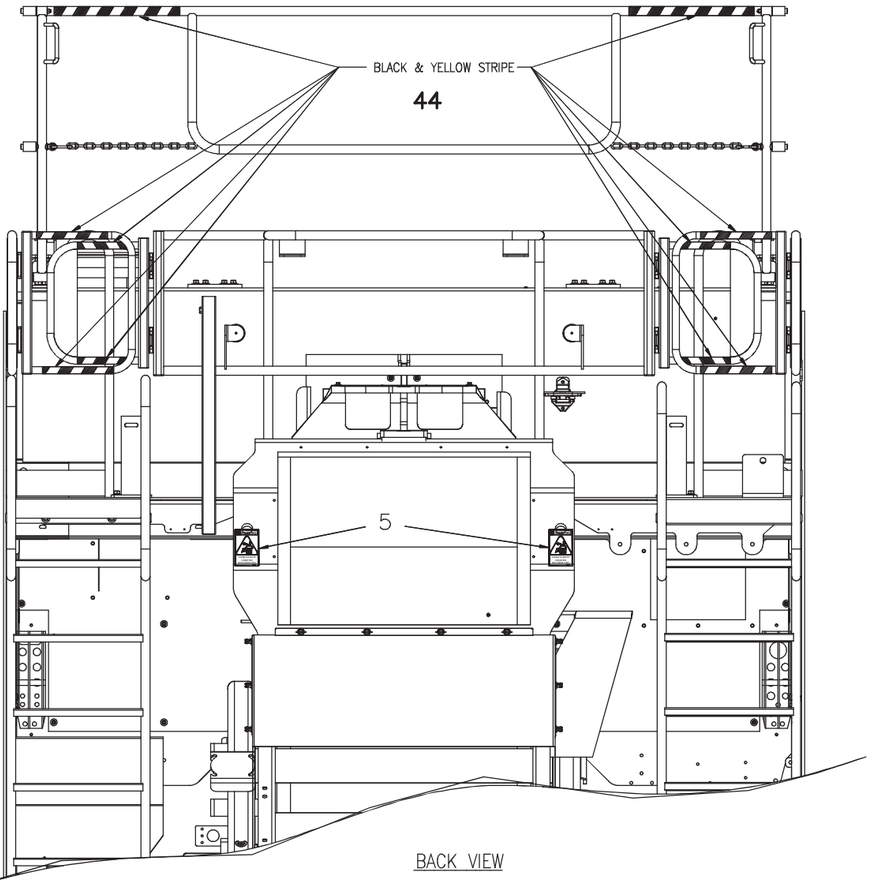
HOOD PROP



EXPANSION TANK

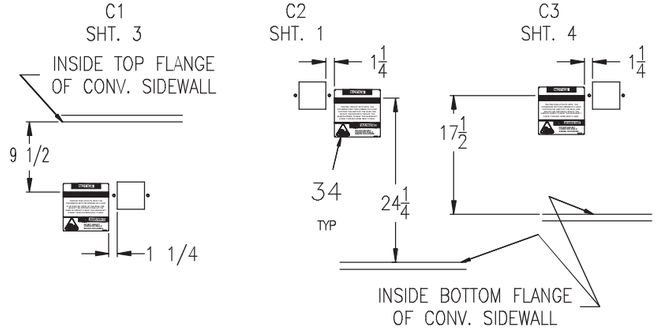


BATTERY BOX LID

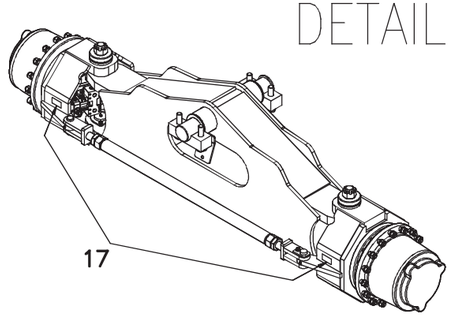


BACK VIEW

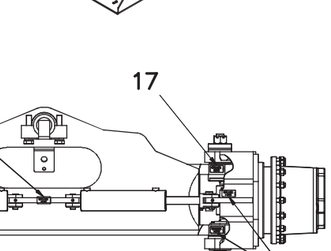
CHAIN TENSION DECAL PLACEMENT

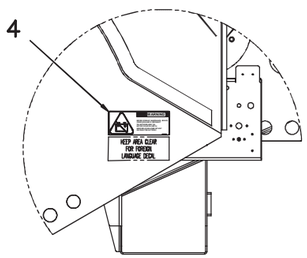


DETAIL "B"



ISO VIEW BACK OF FRONT AXLE



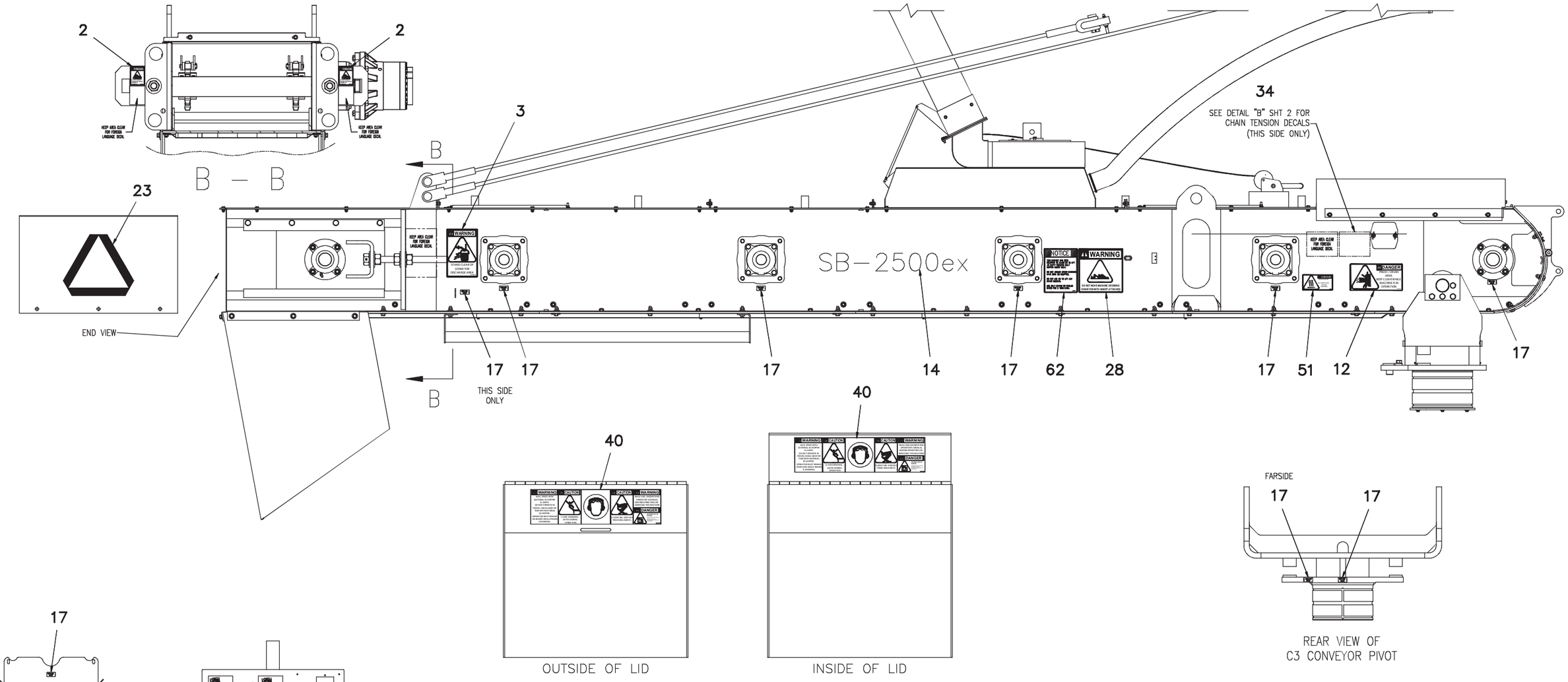


BATTERY BOX
(LEFT DOOR OPEN)

FRONT VIEW OF FRONT AXLE
TO SHOW LOCATION OF DECAL

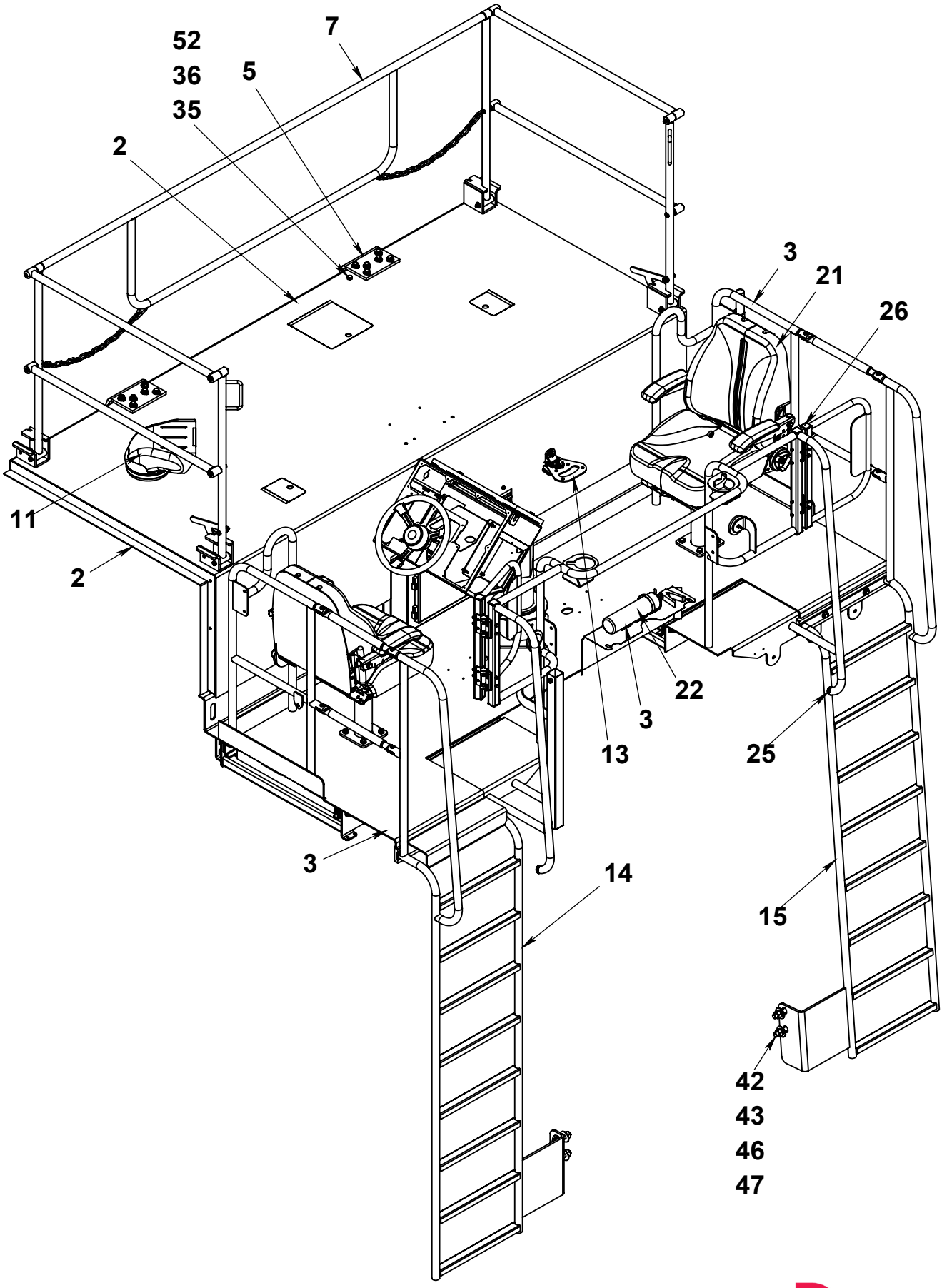
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DECAL KIT - SB-2500eX
(254652-01)



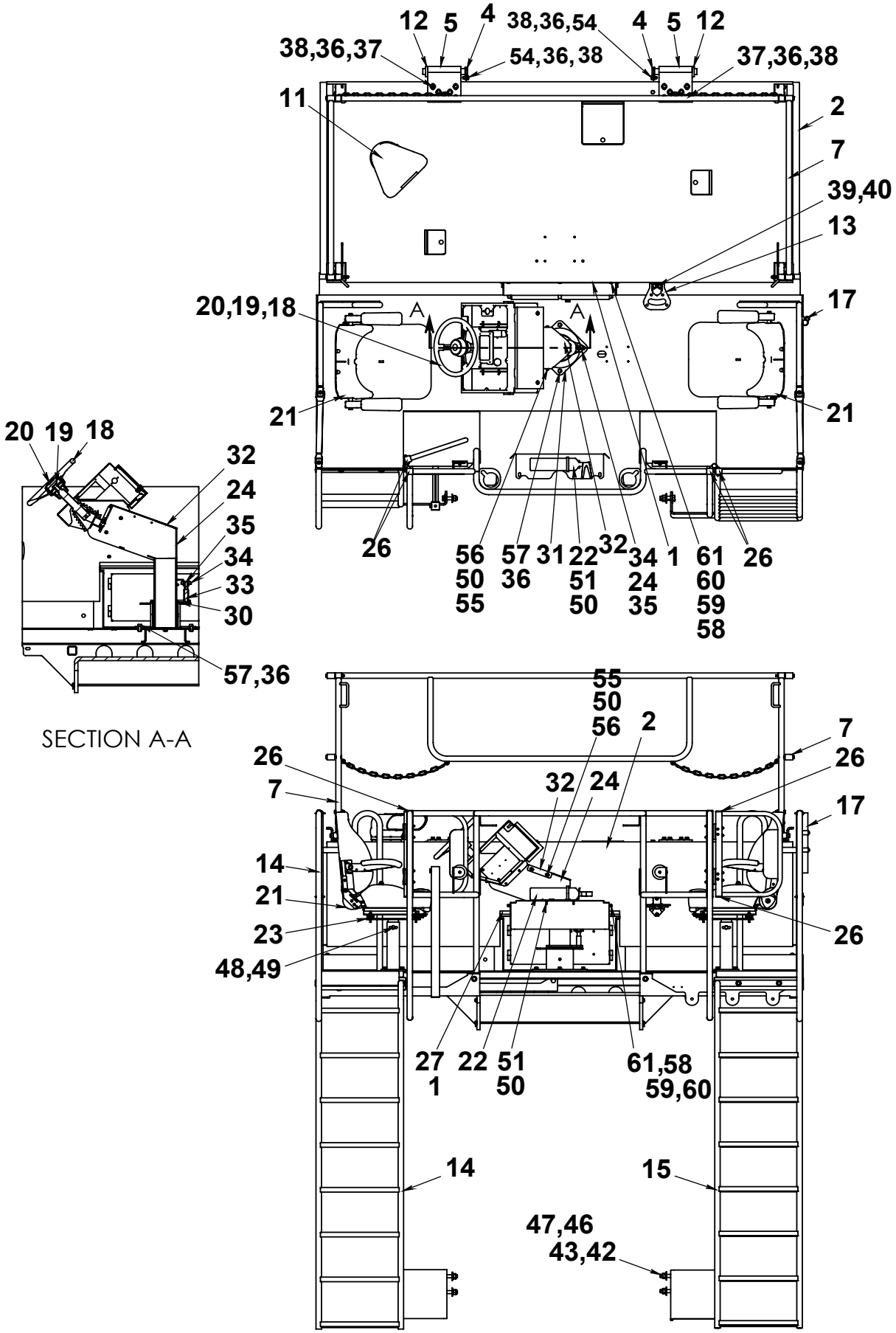
ASSY- SLIDING PLATFORM & HOOD
(253048-01)

NEXT PAGE



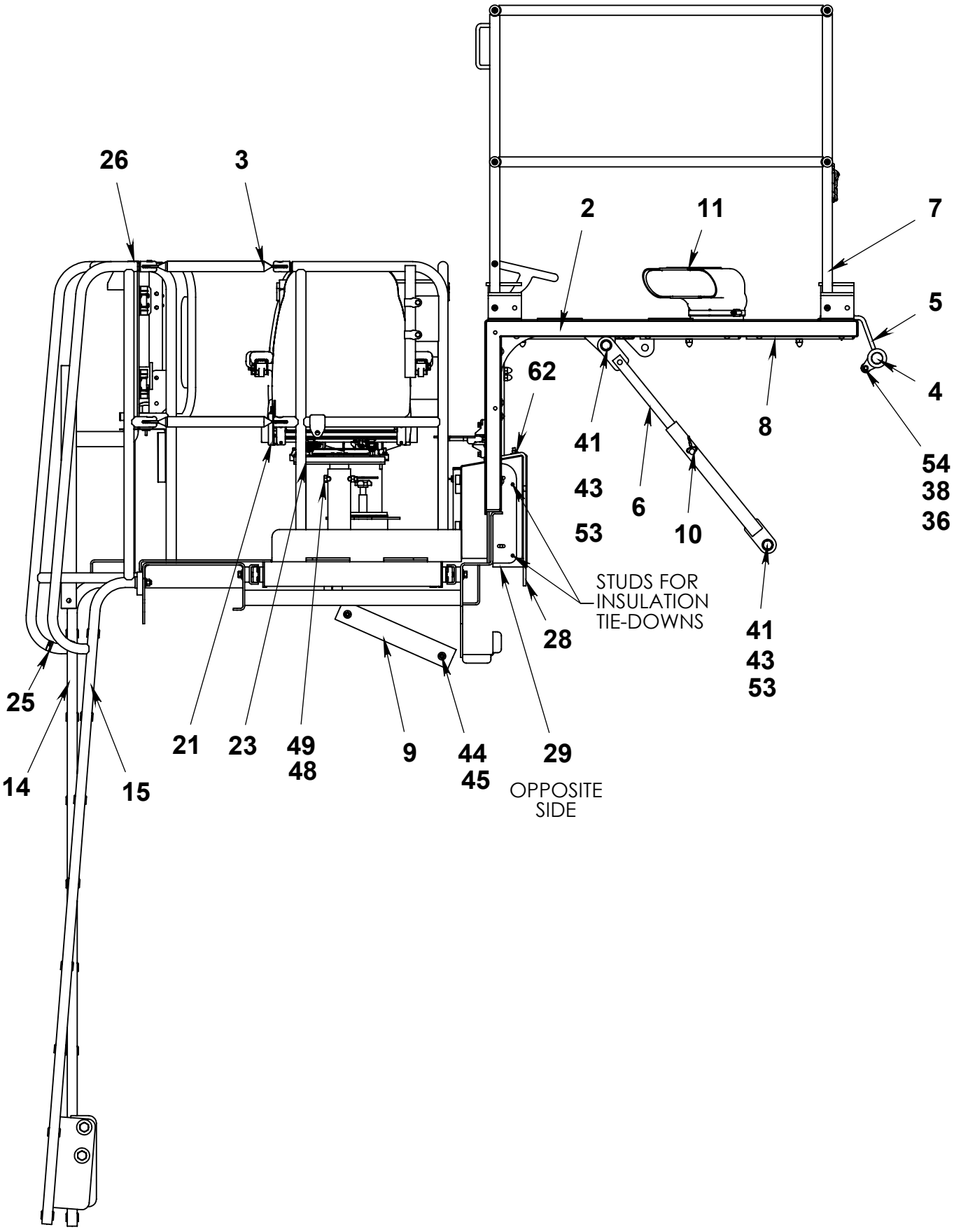
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ASSY- SLIDING PLATFORM & HOOD
(253048-01)



PREVIOUS PAGE

ASSY- SLIDING PLATFORM & HOOD
(253048-01)



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SB-2500e SLIDING PLATFORM & HOOD ASSY. (253048-01)

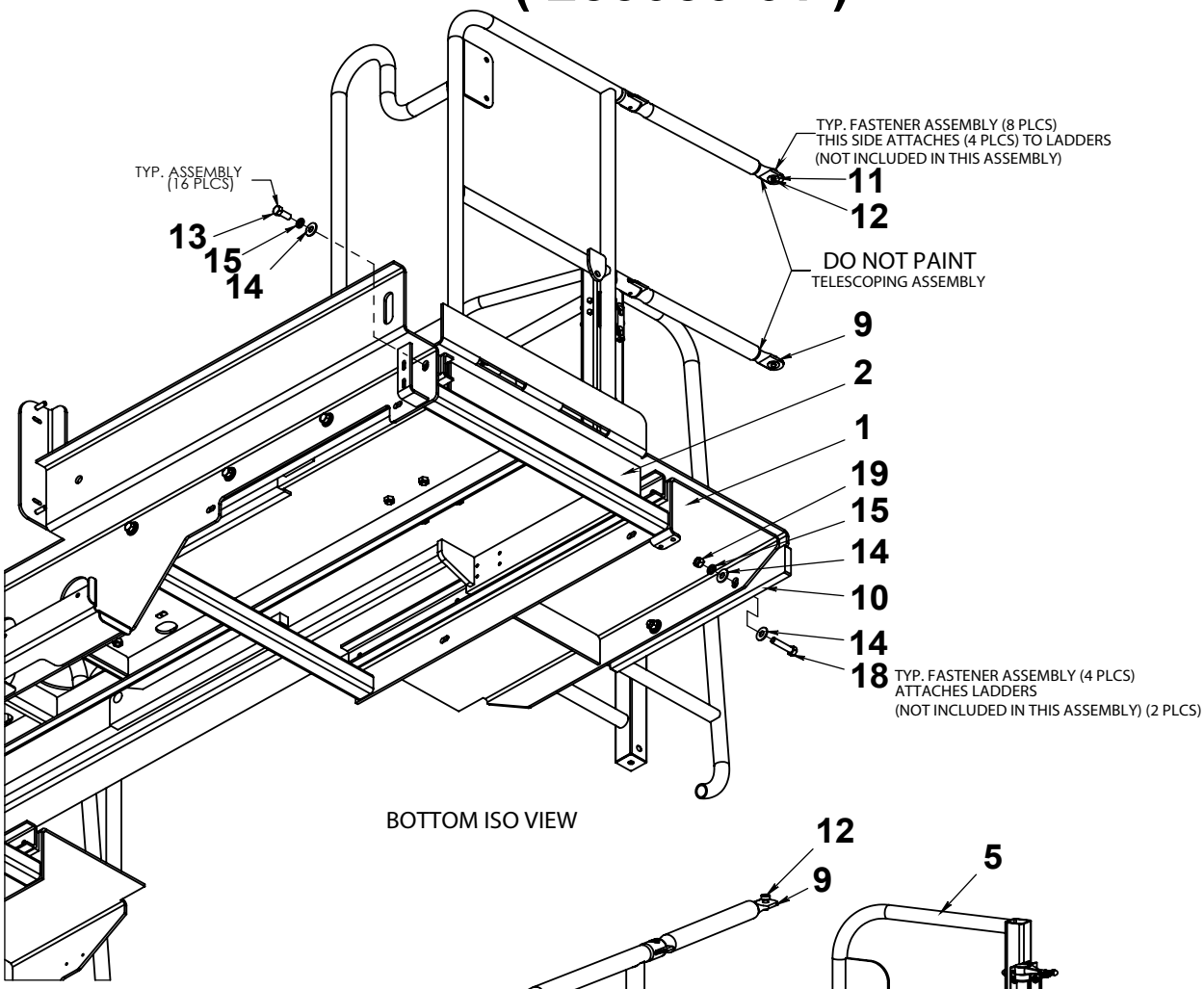
ITEM #	PART NO.	DESCRIPTION	QTY.
1	253048-01-1	TRIM - 5/8" BULB 1/8 TOP MT 28 3/4"	1
2	253049-01	HOOD WLDMT.	1
3	253050-01	ASSY - SLIDING PLATFORM	1
4	146491-04	WLDMT - HOOD PIN	2
5	239170-01	WLDMT - HOOD HINGE	2
6	203965-03	WLDMT - HOOD PROP	1
7	244135-01	ASSY - HOOD RAIL 3M	1
8	253201-01	ASSY - HOOD INSULATION	1
9	240120-04	INSUL - SLIDING PLATFORM	1
10	205278-04	PIN - SAFETY SNAP 1/2-3	1
11	217060-04	AIR RAM HOOD INLET 7"	1
12	225575-04	DETAIL - HINGE SPACER	2
13	224761-03	MOD. - STEP - FOLDING	1
14	248986-01	WLDMT - LH SLIDING PLATFORM LADDER	1
15	248987-01	WLDMT - RH SLIDING PLATFORM LADDER	1
16	202080-01	ASSY - MIRROR	1
17	99386	UMBRELLA - UNIVERSAL BRACKET	1
18	143111-01	STEERING - WHEEL 14"	1
19	89045	NUT - CHAR LYNN HEX	1
20	143112-03	STEERING - WHEEL CAP	1
21	250238-03	SEAT - WHITE RECLINING DRIVER	2
22	99583	FIRE - EXTINGUISHER 2 1/2 LBS	1
23	128095-02	WLDMT - SEAT BASE	2
24	252700-01	WLDMT - STEERING POST	1
25	249435-04	PART - END CAP 1 - 1/4" 11 GA RD TUBE	2
26	249371-04	PART - END CAP 1 - 1/2" 11 GA RD TUBE	8
27	253270-03	DETAIL - JUNCTION BOX SEAL PLATE	1
28	250517-04	INSUL - VANDAL COVER	1
29	253243-04	INSUL - MAIN JUNCTION BOX, SIDE	1
30	244715-01	STEERING CONSOLE BUSHING	1
31	244714-01	WLDMT - STEERING BASE FLANGE	1
32	252815-02	DETAIL - STEERING POST COVER	1
33	252816-03	DETAIL - STERING POST LATCH PIN	1
34	252699-03	SB OPS STATION LATCH HANDLE	1
35	23V93	HEX BOLT - 1/2-13 X 3/4"	2
36	83317	LOCK WASHER - 1/2" SPRING STEEL	19
37	93144	HEX BOLT - 1/2-13 X 1 1/2"	12
38	83781-04	FLAT WASHER - 1/2" STEEL	14
39	96476	HEX BOLT - 3/8-16 X 1 1/4"	2
40	83056	LOCK WASHER - 3/8" SPRING STEEL	2
41	95930	HEX BOLT - 3/4-10 X 2 3/4"	2
42	89151	HEX BOLT - 3/4-10 X 3"	4
43	88164	LOCK NUT - 3/4-10 TOP GR8	6
44	83055	HEX NUT - 3/8-16 GR8	4
45	83757	FLAT WASHER - 3/8" STEEL	8

SB-2500e SLIDING PLATFORM & HOOD ASSY. (253048-01)

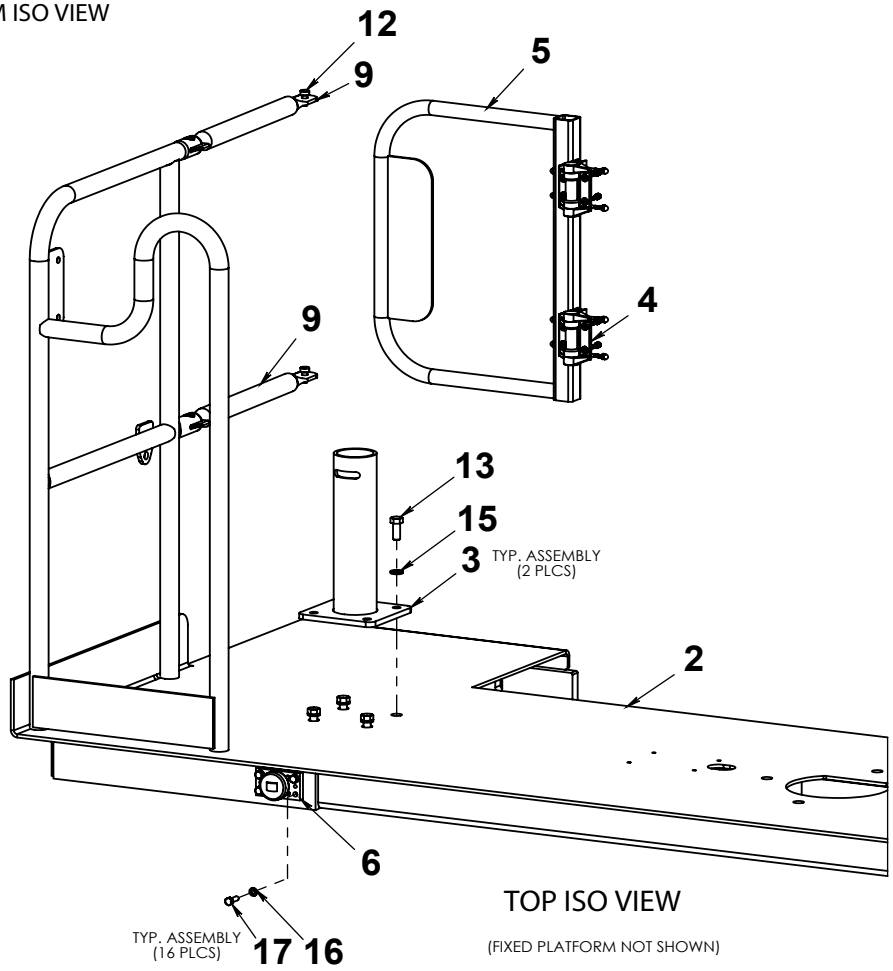
ITEM #	PART NO.	DESCRIPTION	QTY.
46	83752-04	LOCK WASHER - 3/4" SPRING STEEL	4
47	83133	FLAT WASHER - 3/4" STEEL	8
48	139741-04	CENTER LOCK NUT - 1/2-13 GR8	2
49	84431-04	HEX BOLT - 1/2-13 X 4"	2
50	83065	LOCK WASHER - 1/4" SPRING STEEL	6
51	89773	HEX BOLT - 1/4-20 X 1"	2
52	83288	HEX NUT - 1/2-13 GR8	1
53	95937	FLAT WASHER - 3/4" HARD	4
54	83754	HEX BOLT - 1/2-13 X 1"	2
55	84444	FLAT WASHER - 1/4" STEEL	4
56	89988-04	HEX BOLT - 1/4-20 X 3/4"	4
57	86164	HEX BOLT - 1/2-13 X 1 1/4"	4
58	90871	FLAT WASHER - 5/16" STEEL	3
59	83728-04	LOCK WASHER - 5/16" SPRING STEEL	3
60	90875	HEX LOCK NUT - 5/16"-18 GR8	3
61	89297	HEX BOLT - 5/16-18 X 1"	3
62	92235	LOCK NUT - 3/8-16 GR8	4
63			
64			
65			

ASSY- SLIDING PLATFORM
(253050-01)

NEXT PAGE



BOTTOM ISO VIEW



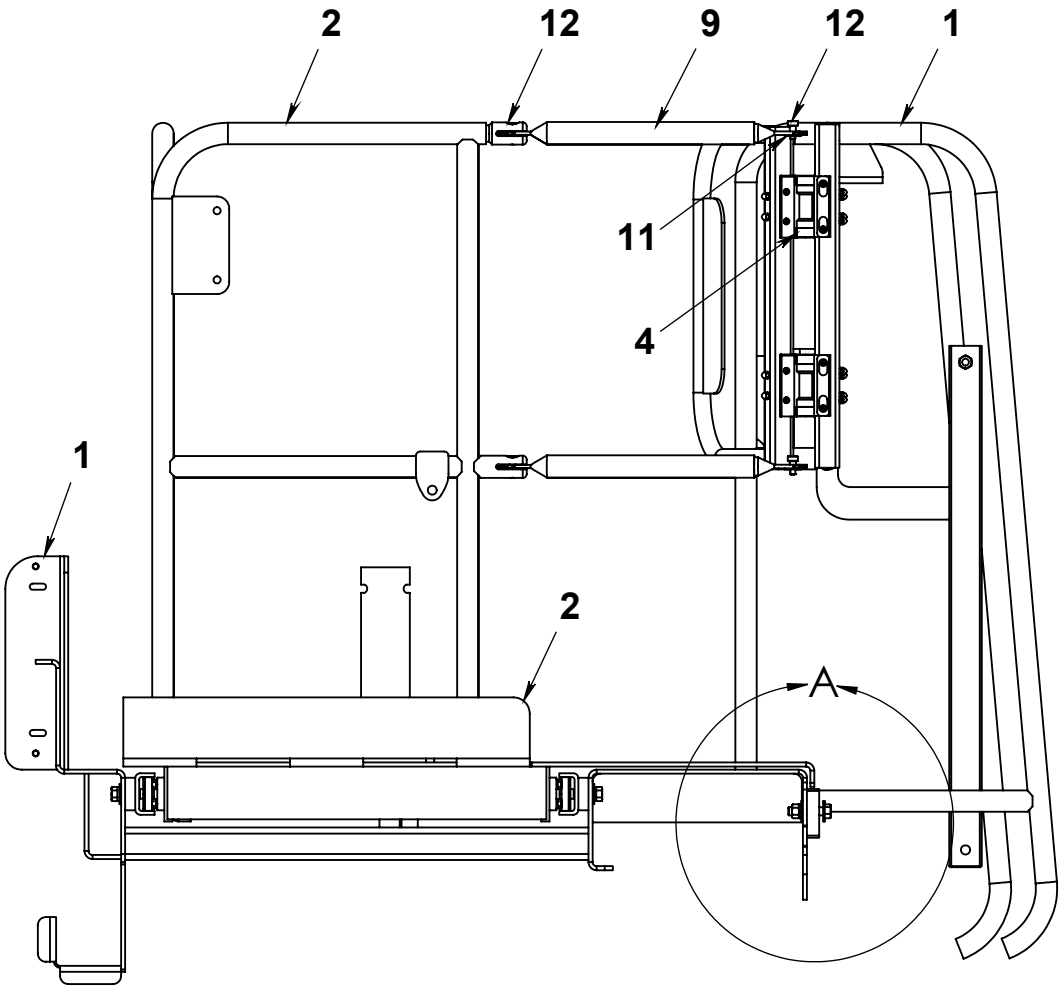
TOP ISO VIEW

(FIXED PLATFORM NOT SHOWN)

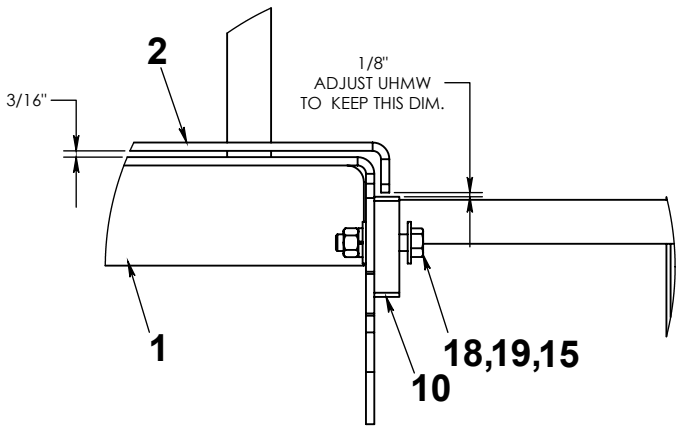
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PREVIOUS PAGE

ASSY- SLIDING PLATFORM
(253050-01)



LEFT SIDE VIEW



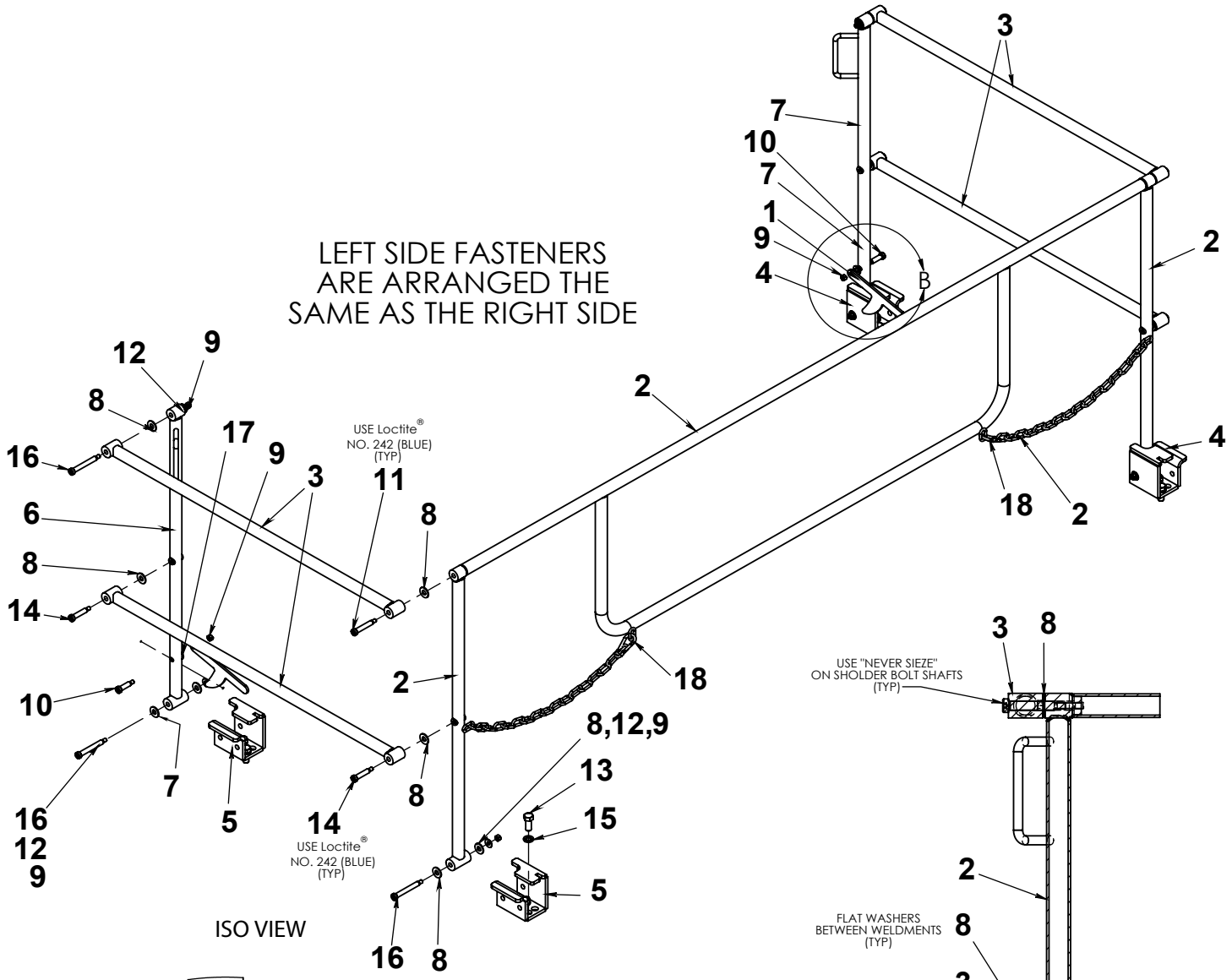
DETAIL A

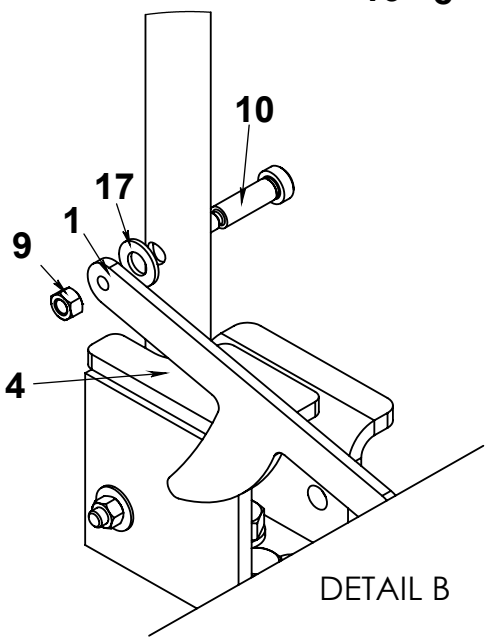
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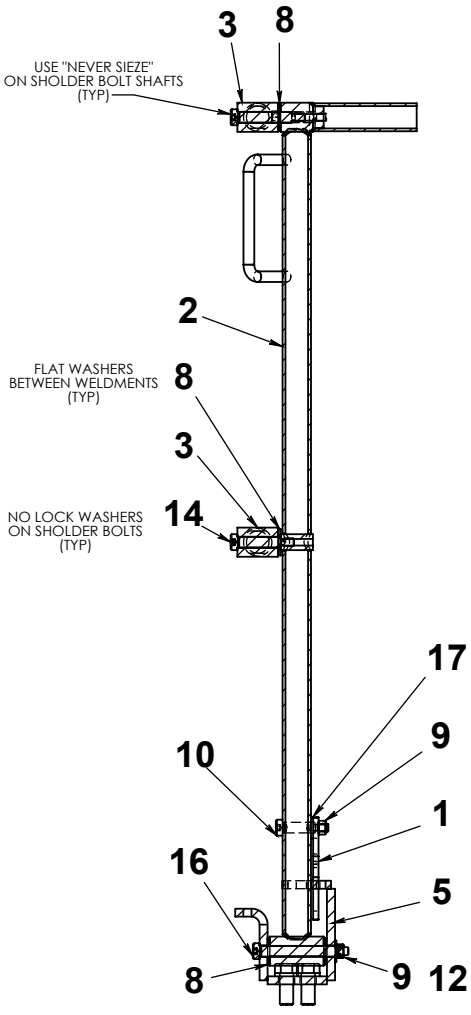
ASSY- SLIDING PLATFORM
(253050-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	253052-01	WELDMENT-SLIDING PLATFORM SUPPORT	1
2	253054-01	WELDMENT-SLIDING CONTROL PLATFORM	1
3	223735-01	WELDMENT-SEAT PEDESTAL	2
4	244336-03	ASSEMBLY-GATE HINGE 2500E	4
5	249332-01	WELDMENT-SLIDING PLATFORM GATE	2
6	244099-04	BEARING*LINEAR HVB-053/HVPS-1	4
7	244104-03	WELDMENT-BEARING*RAIL HVB-053	4
8	252774-03	MAGNET*RUBBER COATED	2
9	249001-03	ASSEMBLY-TELESCOPING TUBE	4
10	249208-03	DETAIL-UHMW SLIDE	2
11	83757	WASHER ~ FLAT 3/8 STEEL	9
12	223080-04	BOLT * 3/8OD X 1/2 X 5/16-18	8
13	86164	BOLT * HEX 1/2"-13 X 1 1/4"	24
14	83781-04	WASHER * FLAT 1/2" STEEL	24
15	83317	WASHER * LOCK 1/2" SPRING STEEL	28
16	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	16
17	89297	BOLT * HEX 5/16"-18 X 1"	16
18	26C56	BOLT * HEX 1/2"-13 X 2 1/4"	4
19	83288	NUT * 1/2"-13 HEX GRADE 8	4
20	89772	NUT * 1/4"-20 HEX GRADE 8	2

ASSEMBLY- HOOD RAIL
(244135-01)



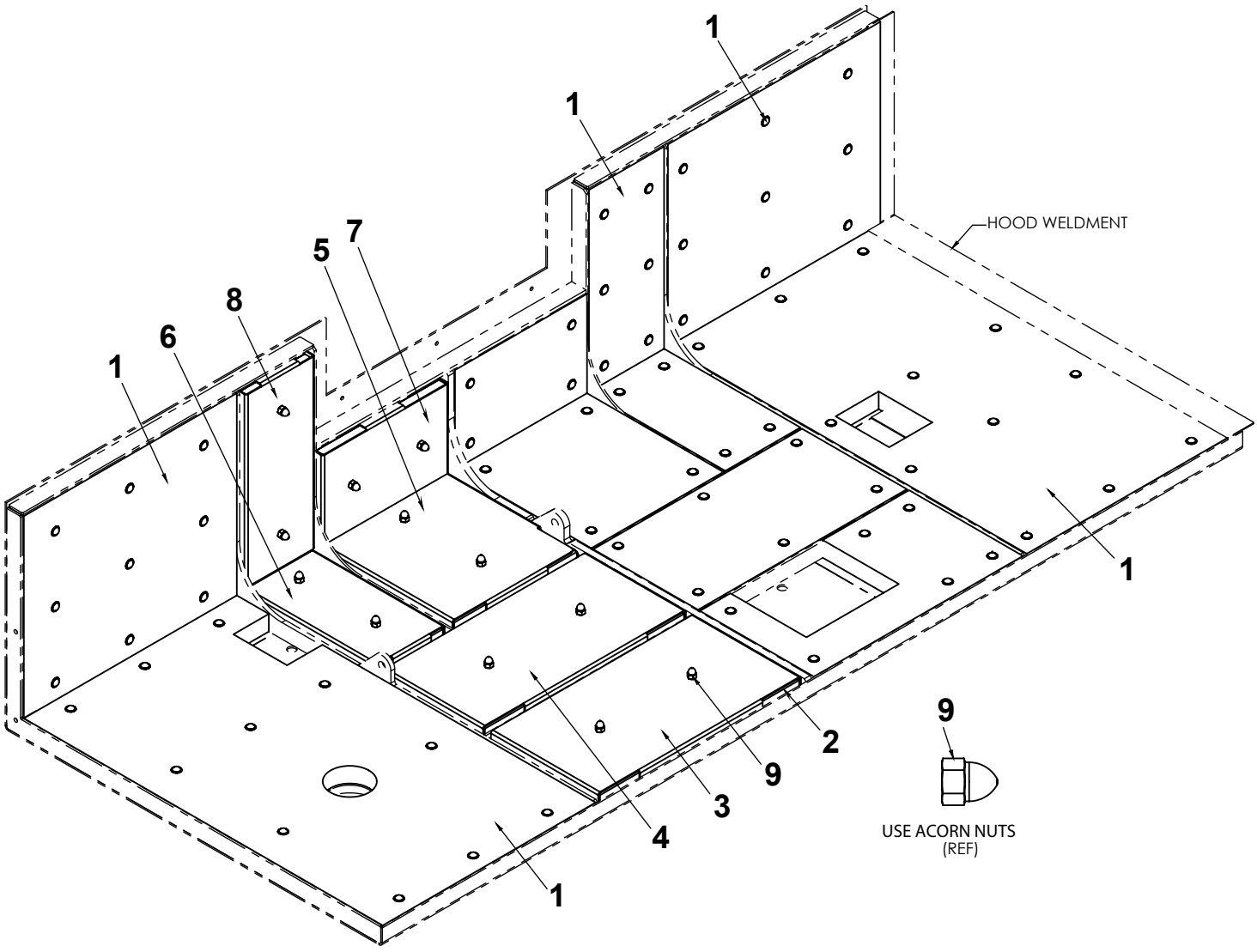




ASSEMBLY- HOOD RAIL
(244135-01)

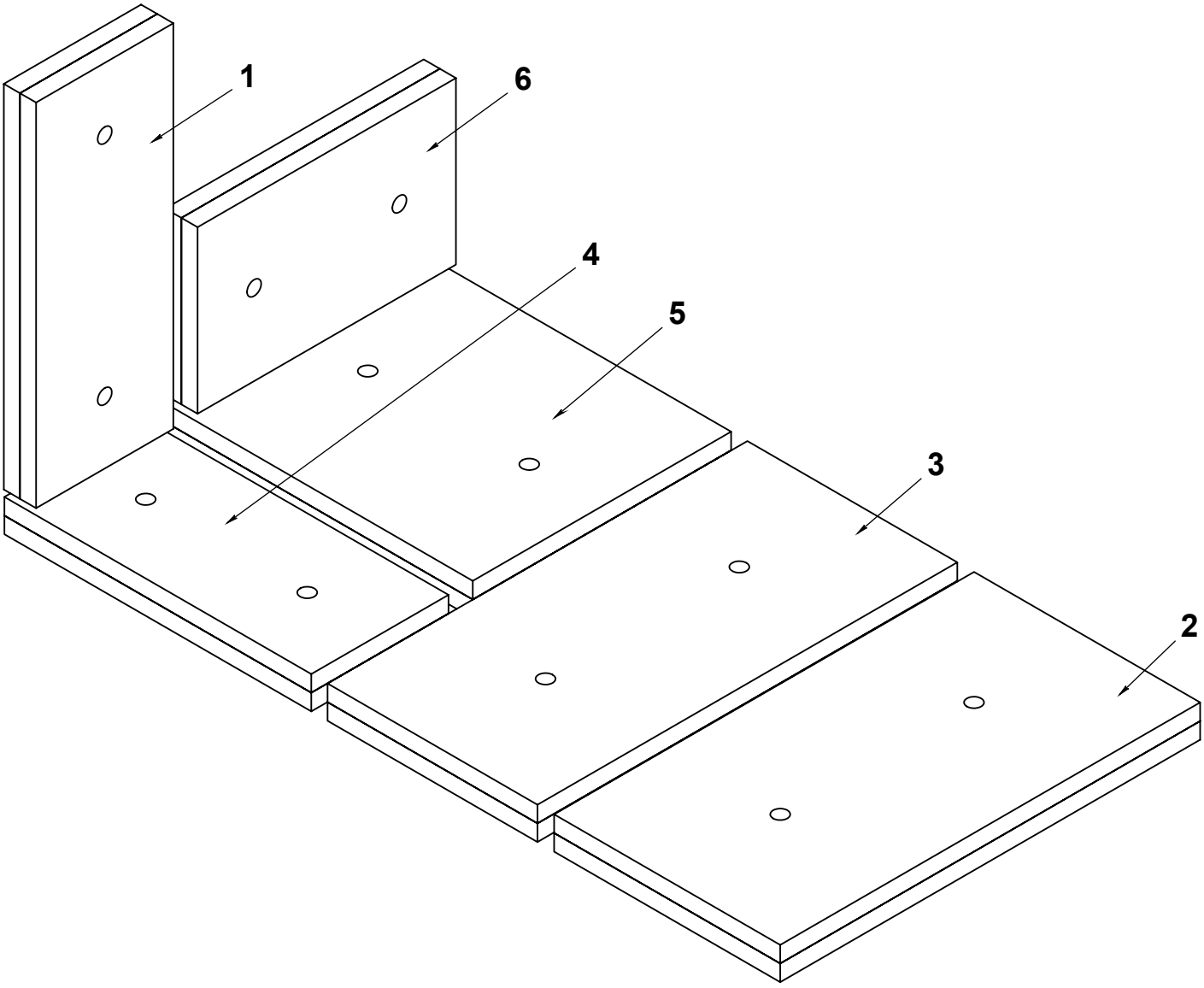
ITEM#	PART #	DESCRIPTION	QTY.
1	225110-03	DETAIL-HOOD RAIL, CLAMP	2
2	245436-01	WELDMENT-HOOD RAIL, FRONT	1
3	224027-01	WELDMENT-HOOD RAIL, TOP & MID	4
4	244144-03	WELDMENT-HOOD RAIL MOUNT, REAR LEFT	2
5	244145-03	WELDMENT-HOOD RAIL MOUNT, REAR RIGHT	2
6	224028-01	WELDMENT-HOOD RAIL, REAR	1
7	229701-01	WELDMENT-HOOD RAIL, L.H. REAR	1
8	83781-04	WASHER * FLAT 1/2" STEEL	16
9	92235	NUT * 3/8"-16 LOCK GRADE 8	8
10	223281-04	BOLT * SHOULDER 1/2, 3/8-16 X 1 1/2 L	2
11	140077	SHOULDER BOLT * 1/2 X 2 1/2 W/3/8TH	2
12	83757	WASHER ~ FLAT 3/8 STEEL	6
13	84778	HEX BOLT * 5/8-11 X 1 1/2 LG	8
14	142342	BOLT * SHOULDER 3/8-16 X 1/2 X 2	4
15	84717	WASHER * LOCK 5/8" SPRING STEEL	8
16	224261-04	SHOULDER BOLT * 1/2, 3/8-16 X 3 1/2 L	6
17	10D63	WASHER ~ 1/2" HARD A325	2
18	218214-04	3/8 DIA. SPRING SNAP HOOK	2

ASSY- HOOD INSULATION
(253201-01)



ITEM#	PART #	DESCRIPTION	QTY.
1	253202-01	INSULATION * HOOD FOAM KIT	1
2	253203-01	ASSEMBLY-HOOD HEAT INSULATION KIT	1
3	238431-03	DETAIL-HOOD STAINLESS COVER 2	1
4	238432-03	DETAIL-HOOD STAINLESS COVER 3	1
5	238433-03	DETAIL-HOOD STAINLESS COVER 4	1
6	238434-03	DETAIL-HOOD STAINLESS COVER 5	1
7	253204-03	DETAIL-HOOD STAINLESS COVER 6	1
8	238436-03	DETAIL-HOOD STAINLESS COVER 7	1
9	208225-04	NUT * 1/2"-13 UNC ACORN	12

ASSY- HOOD HEAT INSULATION KIT
(253203-01)

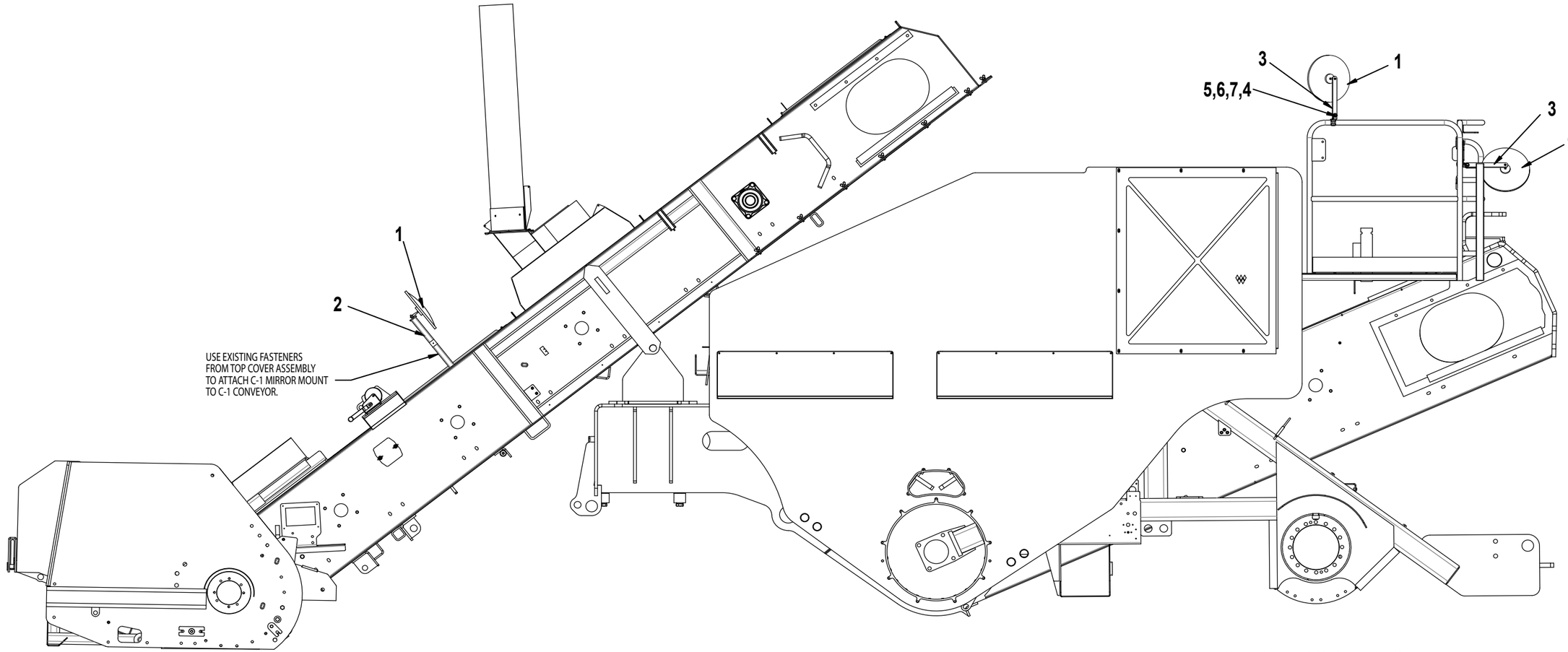


ITEM#	PART #	DESCRIPTION	QTY.
1	238485-01-7	MINERAL WOOL, 1 x 8 1/2 x 21 3/4, MINERAL WOOL	2
2	238485-01-2	MINERAL WOOL, 1 x 14 x 26, MINERAL WOOL	2
3	238485-01-3	MINERAL WOOL, 1 x 13 x 26, MINERAL WOOL	2
4	238485-01-4	MINERAL WOOL, 1 x 8 1/2 x 19, MINERAL WOOL	2
5	238485-01-5	MINERAL WOOL, 1 x 16 x 19, MINERAL WOOL	2
6	253203-01-6	MINERAL WOOL, 1 x 10 x 16, MINERAL WOOL	2

MIRROR ASSEMBLY
(202080-01)

NEXT PAGE

ITEM #	PART #	DESCRIPTION	QTY.
1	133459-04	MIRROR * 12" DIA.	6
2	201210-03	WELDMENT-C1 MIRROR MOUNT-2500C	2
3	133460-04	DETAIL-MIRROR MOUNTING ARM	4
4	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
5	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
6	83055	NUT * 3/8-16 HEX GRADE 8	4
7	83757	WASHER ~ FLAT 3/8 STEEL	8

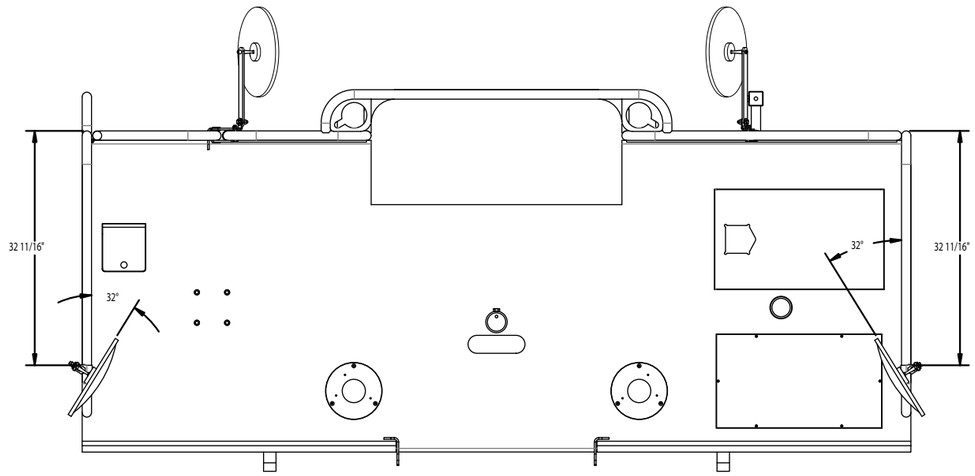


ASSEMBLE MIRRORS AS SHOWN ON THE LEFT AND RIGHT SIDES OF THE MACHINE.

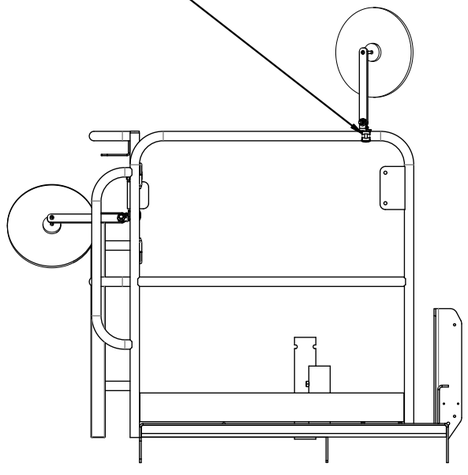
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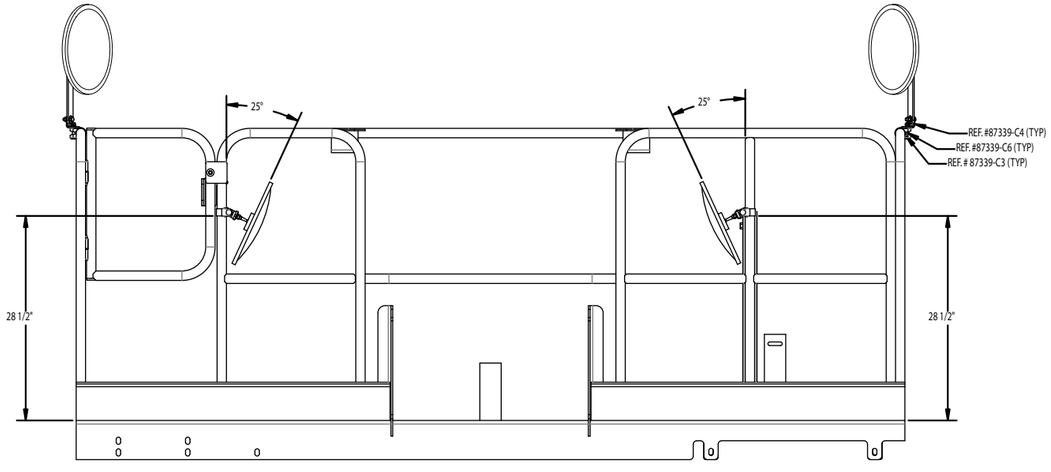
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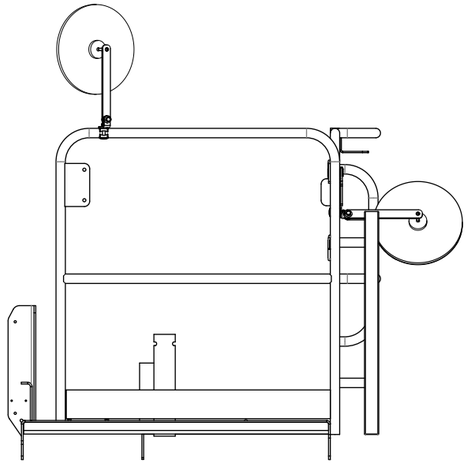
MIRROR ASSEMBLY
(202080-01)



THE BAR CLAMP FOR THE TWO TOP RAIL MOUNTED MIRRORS ARE ROTATED 180 ° DOWN FOR SHIPPING. LOOSEN THE BAR CLAMP AND ROTATE UP AT STAR-UP.





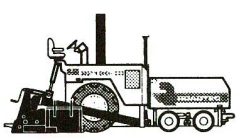


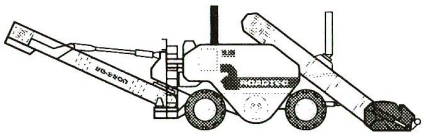
MIRROR ORIENTATION VIEWS

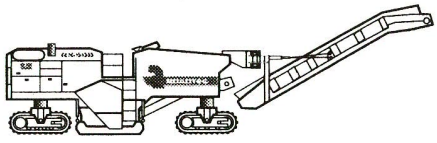
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COLD PLANERS
PAVERS
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TOLL FREE 800-272-7100







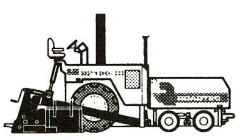
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

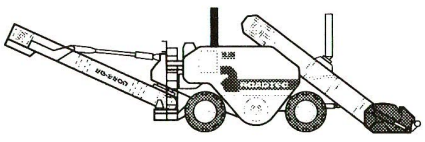
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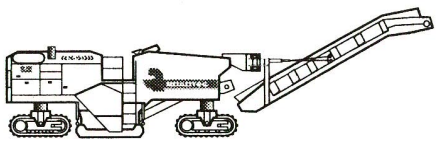
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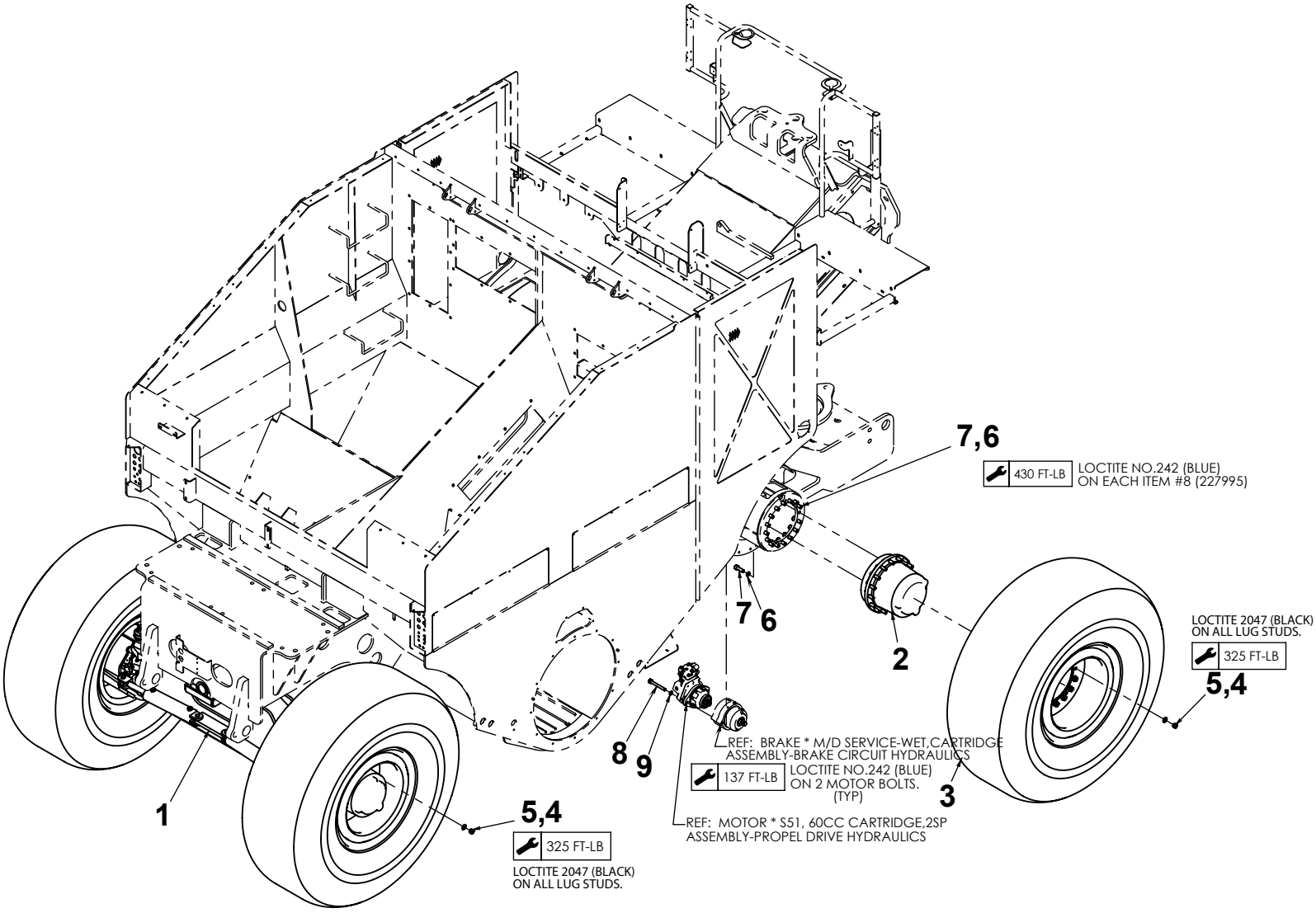
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SECTION 3 : AXLE & DRIVE

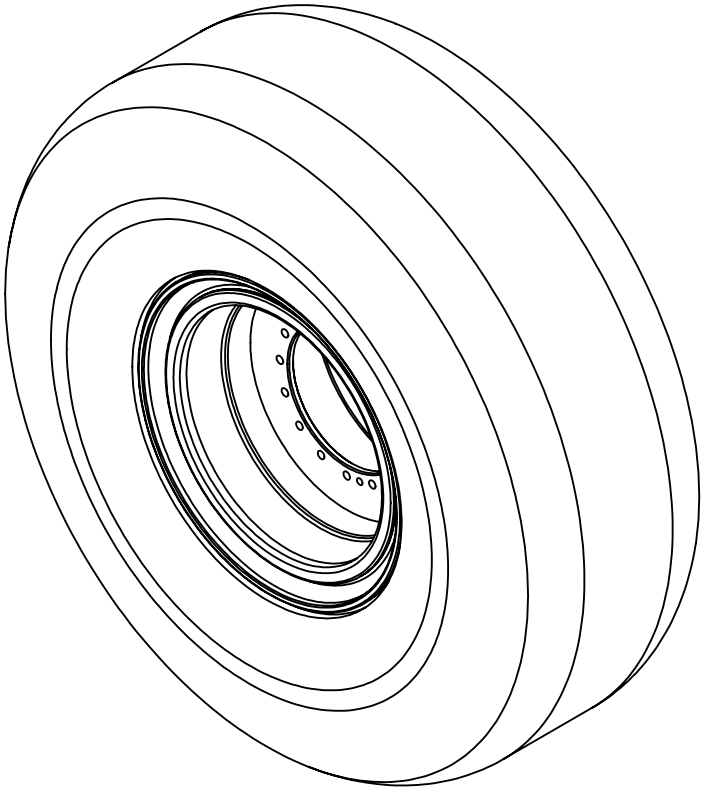
ASSEMBLY	PART NO.	S/N	PAGE NO.
FRONT & REAR AXLE	257834-01	3025 & UP	3.1
TIRE & RIM	221885-04	3025 & UP	3.2
DRIVE AXLE	226069-01		3.3
TRANS. GEAR BOX	218897-01		3.5
PROPEL MOTOR	222051-04		3.7

ASSY- FRONT & REAR DRIVES
(257834-01)



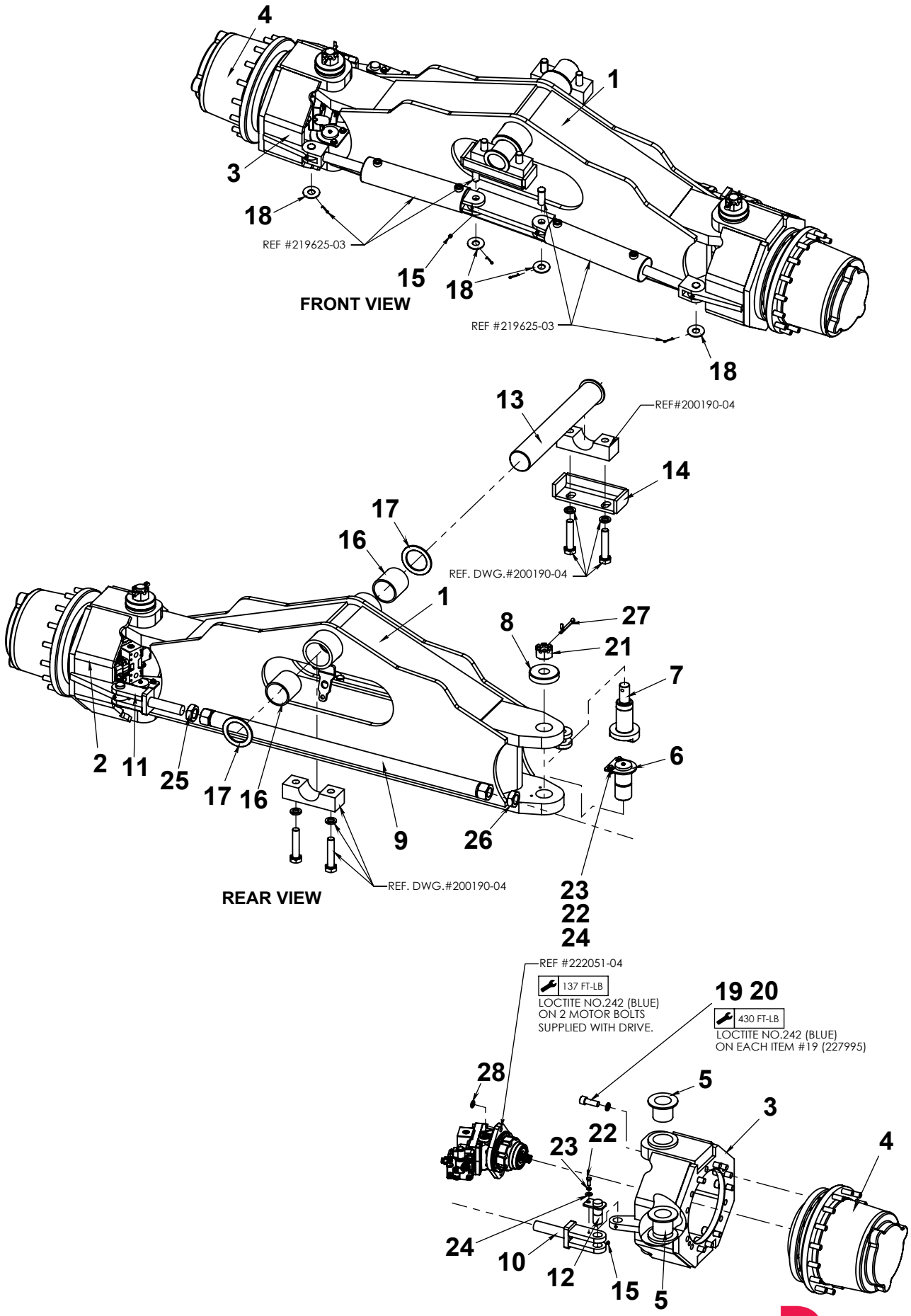
ITEM #	PART #	DESCRIPTION	QTY.
1	226069-01	ASSEMBLY-FRONT STEERING AXLE	1
2	218897-01	TRANS * GEARBOX	2
3	221885-04	ASSEMBLY- TIRE & RIM	4
4	95937	WASHER * FLAT 3/4" HARD	64
5	93211	NUT * HEX 3/4"-16 FINE THREAD	64
6	94724	WASHER * LOCK 20 127B	32
7	227995	BOLT * SOC HD M20 2.5 X 55 12.9 912	32
8	245665-04	HEX BOLT * M16-2 X 140 8.8 931	4
9	01702	WASHER * LOCK 16 7980 SPRING STEEL	4

ASSEMBLY- TIRE & RIM
(221885-04)



SPECIFICATIONS:
25X15 RIM RT# 221883-01
WITH
2100-25 28 PLY TIRE RT# 223286-04

ASSEMBLY- FRONT STEERING AXLE
(226069-01)



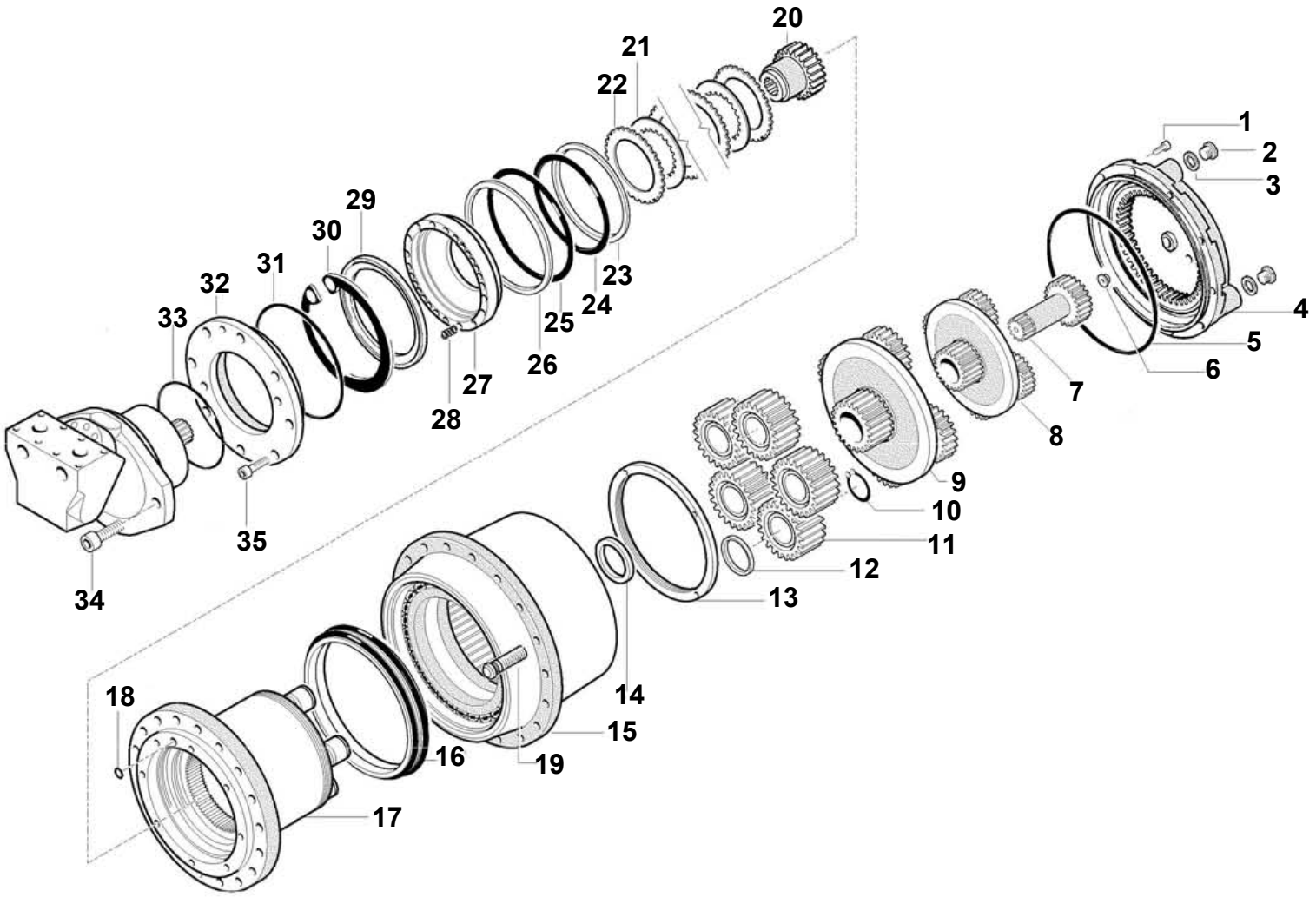
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ASSEMBLY- FRONT STEERING AXLE
(226069-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	226073-01	WELDMENT-FRONT STEERING TRUNION	1
2	226071-01	WLDT- DRIVE SPINDLE HOUSING, FRT LH	1
3	226072-01	WLDT- DRIVE SPINDLE HOUSING, FRT RH	1
4	218897-01	TRANS * GEARBOX	2
5	219824-04	BUSHING * FLGD, 3" X 2.5"ID X 3"L, 4.5 FLG .25THK	4
6	219825-03	WELDMENT - KING PIN	2
7	226397-03	DETAIL-KING PIN, THRUST	2
8	226398-03	DETAIL-CARRIER PLATE, THRUST	2
9	226408-03	WELDMENT - TIE ROD	1
10	219820-03	TIE ROD WELDMENT-R.H.	1
11	219821-03	TIE ROD WELDMENT-L.H.	1
12	143107-03	CYLINDER PIN WELDMENT	2
13	149999-03	WLDT- FRONT AXLE TRUNION PIN	1
14	235844-01	WELDMENT-PIVOT PIN RETAINER	1
15	83416	GREASE * NIPPLE 1/8" NPT	10
16	29M85	BUSHING * DURALON	2
17	214527-04	WASHER * THRUST	2
18	83376-04	FLAT WASHER * 1" STEEL	4
19	227995	BOLT * SOC HD M20 2.5 X 55 12.9 912	32
20	94724	WASHER * LOCK 20 127B	32
21	26A60	NUT * SLOTTED 1 1/2" NC	2
22	84332	BOLT * HEX 3/8"-16 X 1"	6
23	83056	WASHER ~ LOCK 3/8 SPRING STEEL	6
24	83757	WASHER ~ FLAT 3/8 STEEL	6
25	205242-04	NUT * HEX 1 1/2-12 JAM LH	1
26	205241-04	NUT * HEX 1 1/2-12 JAM RH.	1
27	27D87	PIN * COTTER 3/8" X 3 1/2"	2
28	01702	WASHER * LOCK 16 7980 SPRING STEEL	4

FOR HYD. FITTINGS & CYLINDERS,
REFER TO ASSY-STEERING HYDRAULICS

SB-2500D TRANSMISSION GEAR BOX
(218897-01)



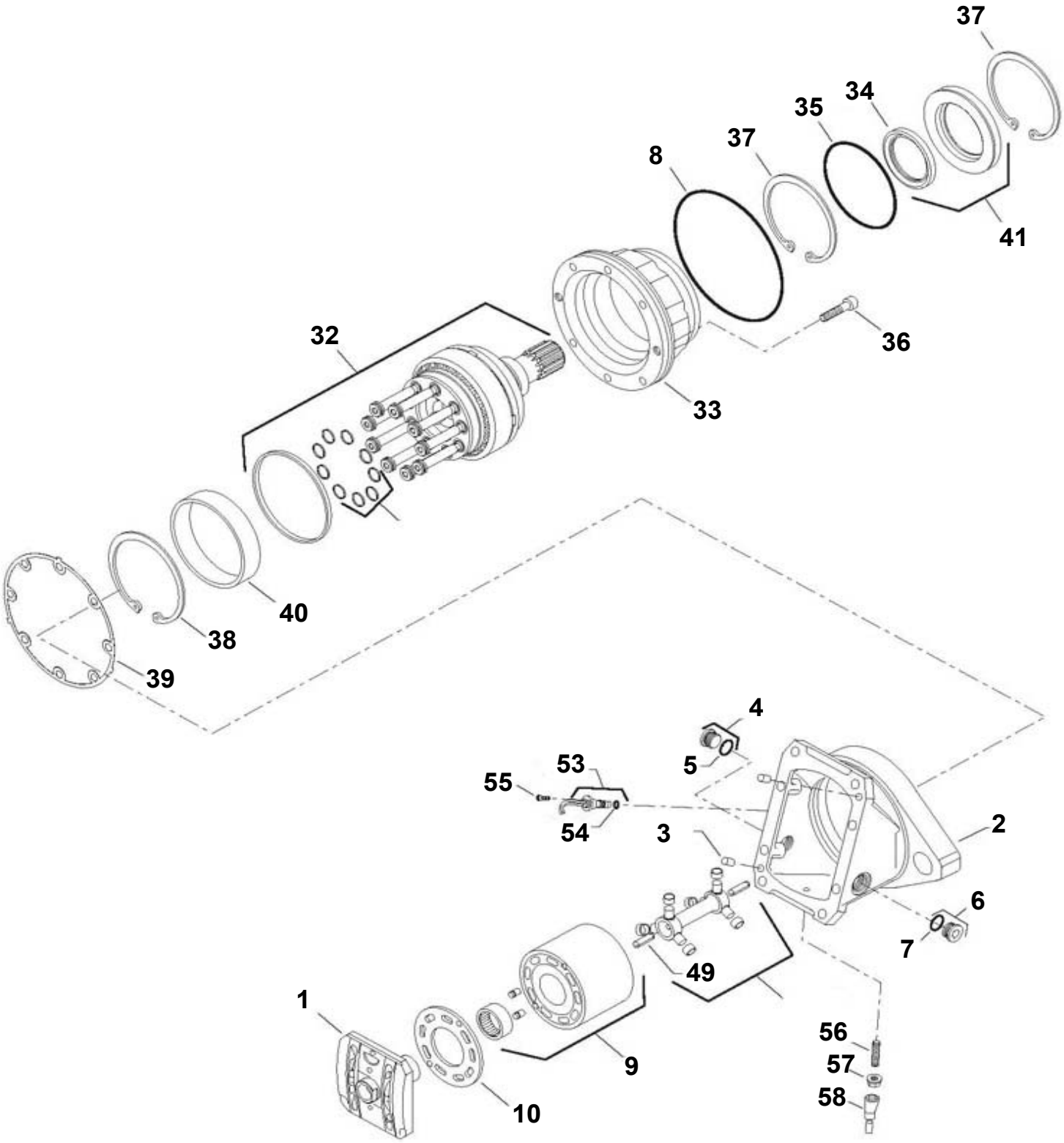
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SB-2500D TRANS. GEAR BOX ASSY.
(218897-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	218897-01-C2	SCREW	10
2	218897-01-C3	OIL BREATHER PLUG	2
3	218897-01-C4	WASHER	2
4	218897-01-C5	COVER	1
5	218897-01-C6	O-RING	1
6	218897-01-C7	PAD	1
7	218897-01-C8	SUN GEAR	1
8	218897-01-C9	REDUCTION ASSY.	1
9	218897-01-C10	REDUCTION ASSY.	1
10	218897-01-C11	CIR-CLIP	5
11	218897-01-C12	PLANETARY	5
12	218897-01-C13	SPACER	5
13	218897-01-C14	NUT	1
14	218897-01-C15	CENTERING RING	1
15	218897-01-C16	BEARING HOUSING	1
16	218897-01-C17	SEAL	1
17	218897-01-C18	HUB	1
18	218897-01-C1	O-RING	1
19	218897-01-C19	STUD	16
20	218897-01-C20	BRAKE SHAFT	1
21	218897-01-C21	STEEL DISC	5
22	218897-01-C22	SINTERED DISC	6
23	218897-01-C23	BACK-UP RING	1
24	218897-01-C24	O-RING	1
25	218897-01-C25	O-RING	1
26	218897-01-C26	BACK-UP RING	1
27	218897-01-C27	BRAKE PISTON	1
28	218897-01-C28	SPRING	18
29	218897-01-C29	SPRING RETAINING PLATE	1
30	218897-01-C30	CIR-CLIP	1
31	218897-01-C31	O-RING	1
32	218897-01-C32	MOTOR ADAPTOR	1
33	218897-01-C33	O-RING	1
34	218897-01-C34	SCREW	2
35	218897-01-C35	SCREW	8
36			
37			
38			
39			
40			

PROPEL MOTOR
(222051-04)

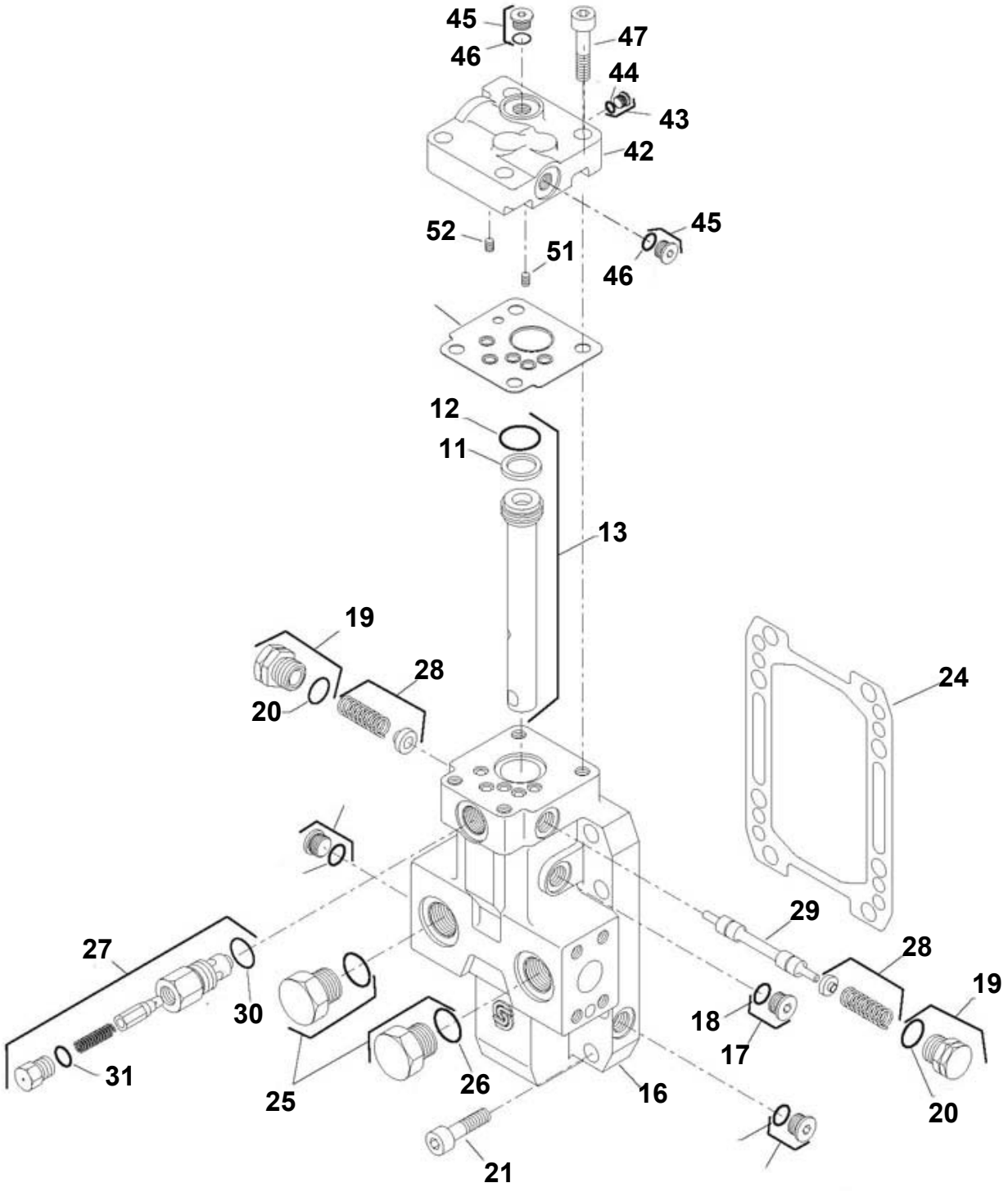
NEXT PAGE



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PREVIOUS PAGE

PROPEL MOTOR
(222051-04)



PROPEL MOTOR
(222051-04)

51C-060-1-R-D1-B-N1-NN-N-N-U1-AWH-016-AA-E4-00-00

ITEM #	PART NO.	DESCRIPTION	QTY.
1		VALVE SEGMENT	1
2		MOTOR HOUSING	1
3		PIN	2
4		PLUG	1
5		O-RING	2
6		PLUG	1
7		O-RING	2
8	209686-09-C3	O-RING	2
9		CYLINDER BLOCK ASSEMBLY	1
10		BEARING PLATE	1
11		SUPPORT PIN	2
12		SEAL RING	2
13		O-RING	2
14		SERVO PISTON ASSEMBLY	1
15		SCREW	1
16		SPACER	1
17		END CAP	1
18		PLUG	1
19		O-RING	2
20		PLUG	2
21		O-RING	4
22		SOCKET HEAD SCREW, M10 X 45	8
23		O-RING	2
24		O-RING	10
25		END CAP GASKET	2
26		PLUG	2
27		O-RING	4
28		CHARGE RELIEF VALVE KIT	1
29		SPRING GUIDE ASSEMBLY	2
30		SHUTTLE SPOOL	1
31		O-RING	2
32		O-RING	2
33		SHAFT ASSEMBLY W/SPEED RING	1
34	209686-04-C4	BEARING HOUSING	1
35		LIP SEAL	2
36		O-RING	2
37		SOCKET HEAD SCREW, M8 X 25	8
38		SEAL CARRIER ASSEMBLY	1
39		RETAINING RING	2
40		RETAINING RING	1
41		GASKET	2
42		DISTANCE RING	1
43		CONTROL HOUSING	1
44		PLUG	1
45		O-RING	5

PROPEL MOTOR
(222051-04)

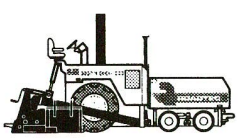
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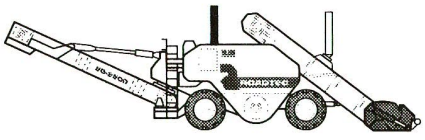
ITEM #	PART NO.	DESCRIPTION	QTY.
46		PLUG	2
47		O-RING	4
48		SCREW	4
49		SAFETY CAP, GREEN	1
50		SYNCH SHAFT KIT	1
51		PISTON RING KIT	1
52		ORIFICE, 0.8 M6 X 8	1
53		ORIFICE, 0.8 M6 X 8	1
54		SPEED SENSOR	1
55		O-RING	1
56		SCREW	1
57		SET SCREW, FLAT POINT, M10 X 65	1
58		SEAL NUT, M10	2
59		OVERHAUL SEAL KIT	1
60	209686-04-C2	O-RING KIT	1
61	209686-04-C1	SPEED SENSOR CONTROL	1

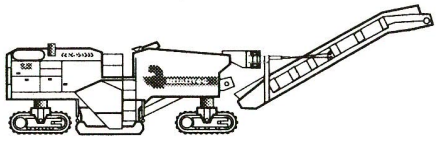
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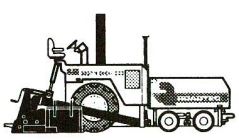
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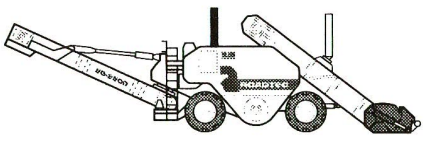
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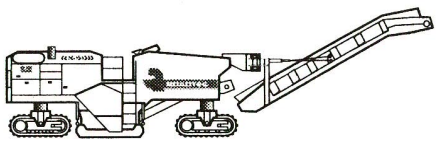
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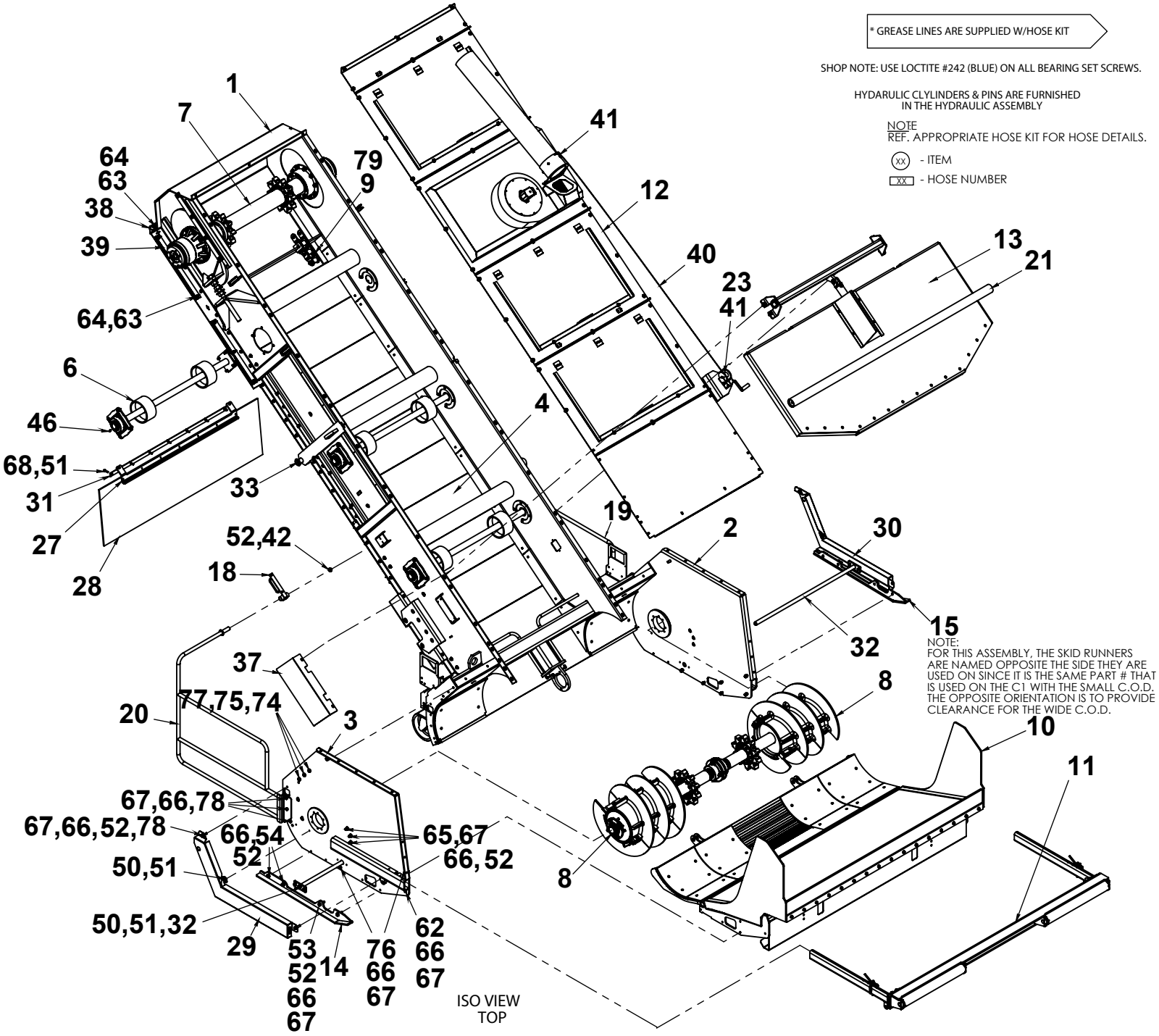
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SECTION 4 : CONVEYORS

ASSEMBLY	PART NO.	S/N	PAGE NO.
C-1 CONVEYOR	255812-01	3022 & UP	4.1
C-1 CHAIN	250118-02		4.8
C-1 IDLERS & BEARINGS	220156-01		4.10
ADJ. CYLINDER STOP	252028-03		4.11
FOOTSHAFT	250695-01		4.12
HEADSHAFT & TAKE- UP	253162-01		4.15
C-1 & C-3 DRIVE GEARBOX	29E38		4.17
C-1 DRIVE MOTOR	142642-04		4.19
TOP COVER & FUME-X	233958-01		4.21
WEAR PLATES	247640-01		4.23
DUMP HOPPER	253651-01		4.25
VIBRATOR	214654-01		4.27
BAFFLE	222584-01		4.28
HYD. PUSH ROLLER	220159-01		4.29
WHEEL ASSY.	132001-04		4.30
C-2 CONVEYOR	255813-01	3022 & UP	4.31
C-2 CHAIN	250120-02		4.34
IDLER	235574-01		4.36
HEADSHAFT & TAKE-UP	253164-01		4.37
FOOTSHAFT & AUGER	250696-01		4.39
C-2 DRIVE GEARBOX	203739-01		4.41
C-2 DRIVE MOTOR	149224-04		4.43
C-2 WEAR PLATES	247593-01		4.45
FLOWGATES	235462-01		4.46
FLOWGATE ACCESS COVER	224996-03		4.47
C-3 CONVEYOR	259963-01	3022 & UP	4.49
C3 CHAIN	250122-02		4.54
IDLER	234452-01		4.56
HEAD SHAFT & TAKE-UP	250328-01		4.57
FOOT SHAFT	234462-01		4.59
C3 CLEAN-OUT DOOR	243325-01		4.60
INSULATION PANEL & TRUCK RAIL	234451-01		4.61
TOP COVER W/FUME	234450-01		4.63
C-3 DRIVE MOTOR	91681-04		4.65

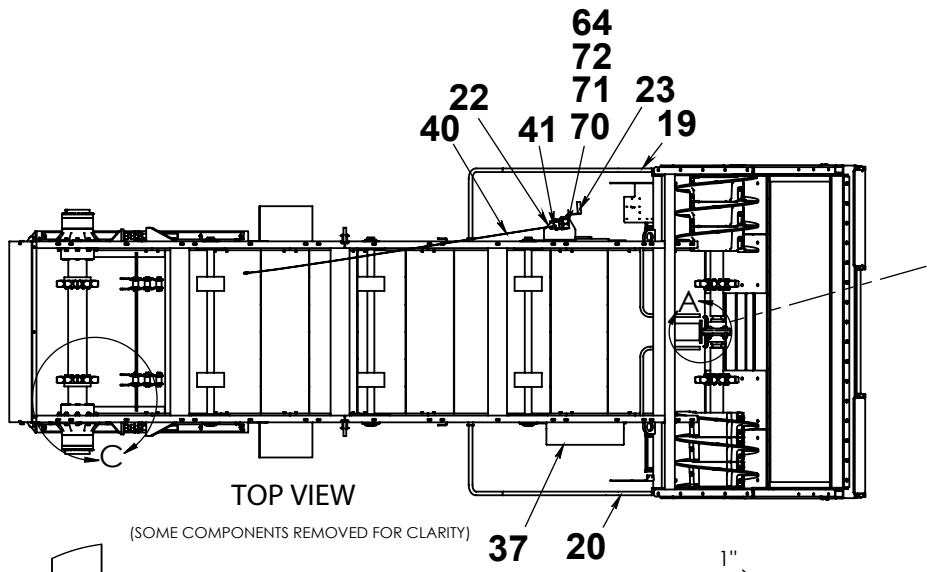
ASSY- C1 CONVEYOR, SB-2500e
(255812-01)

NEXT PAGE



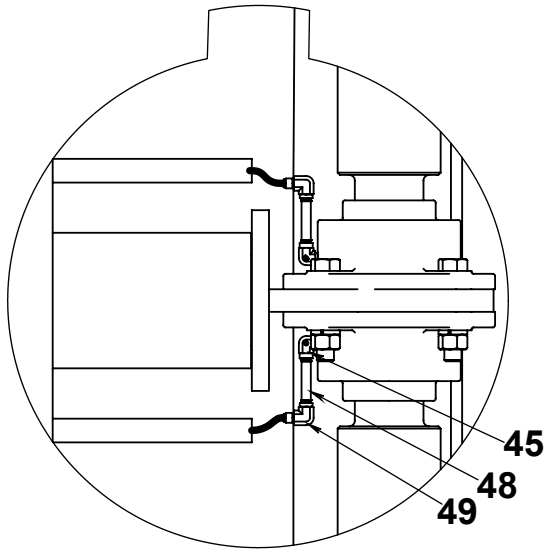
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ASSY- C1 CONVEYOR, SB-2500e
(255812-01)

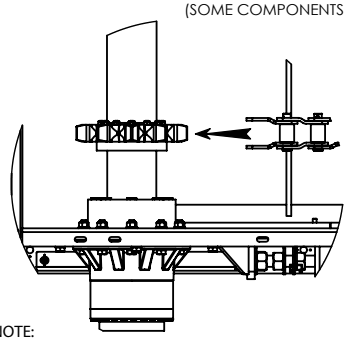


TOP VIEW

(SOME COMPONENTS REMOVED FOR CLARITY)

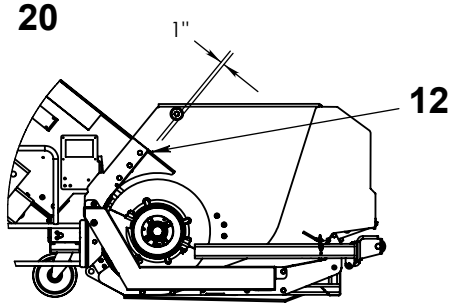


DETAIL A



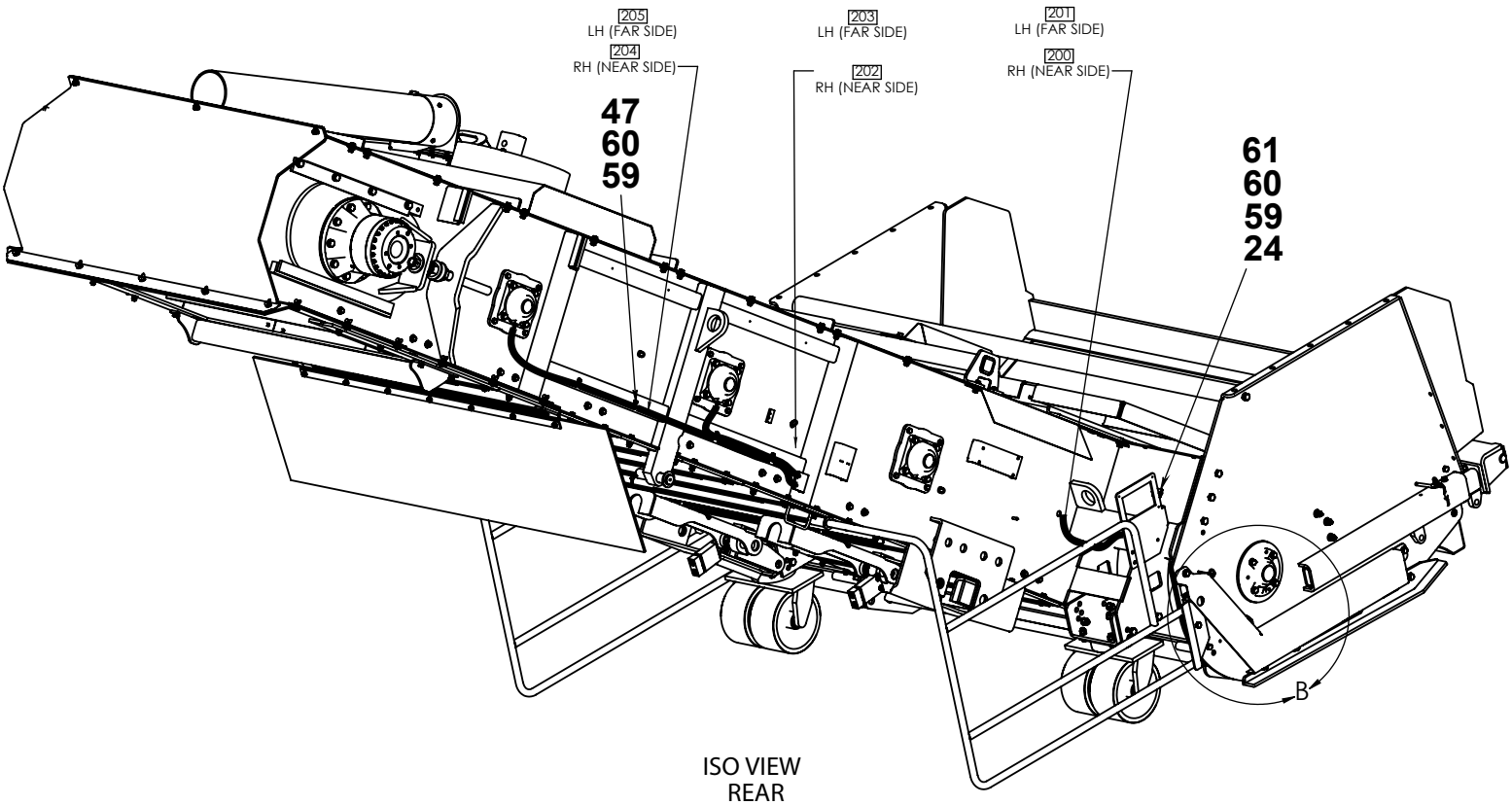
NOTE:
AS THE CHAIN IS PULLED ALONG THE WEAR PLATES, THE WIDE END OF THE CHAIN IS TO POINT TOWARD THE SPROCKET.

DETAIL C



RIGHT VIEW (CROPPED)

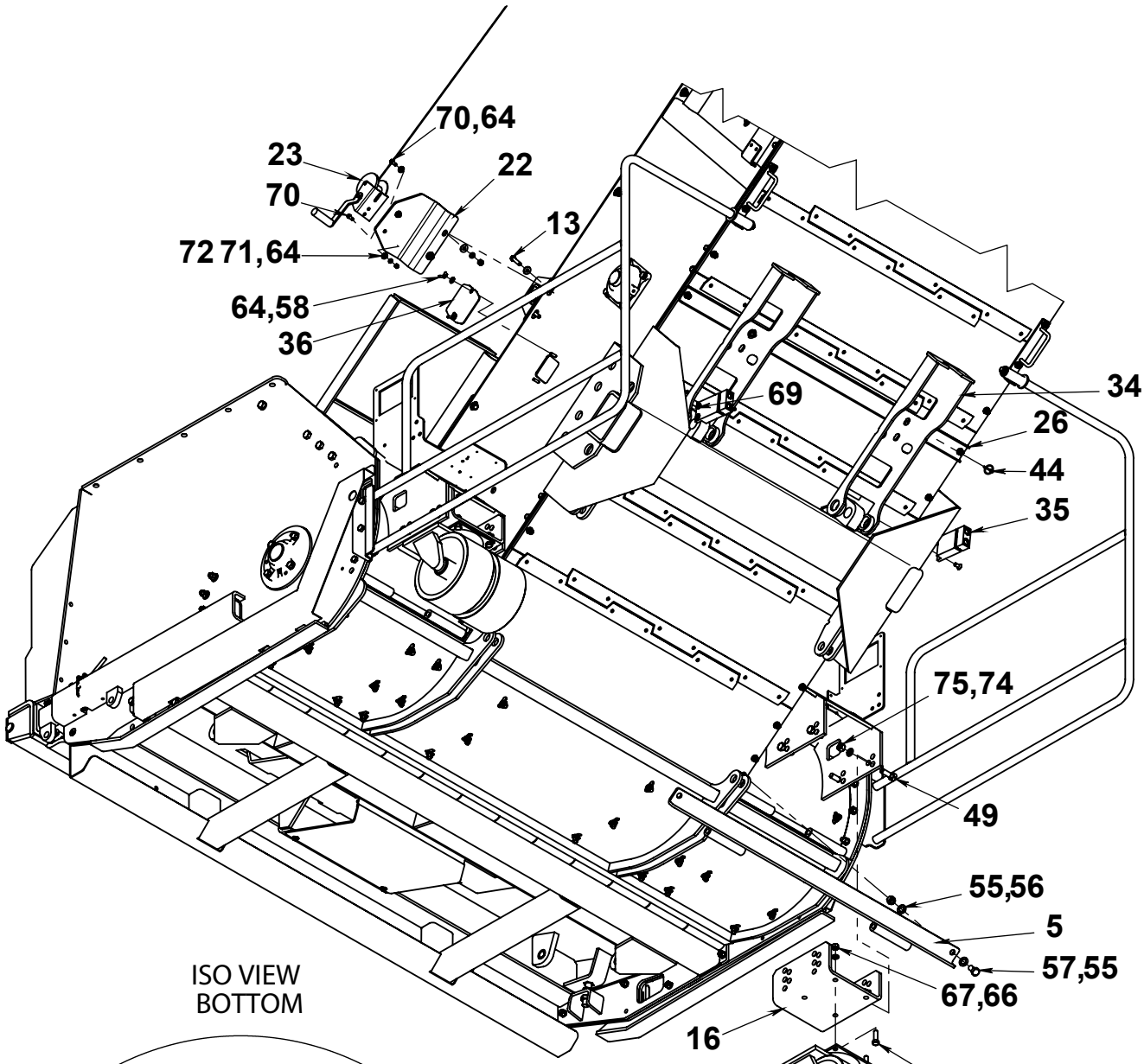
(SOME COMPONENTS REMOVED FOR CLARITY)



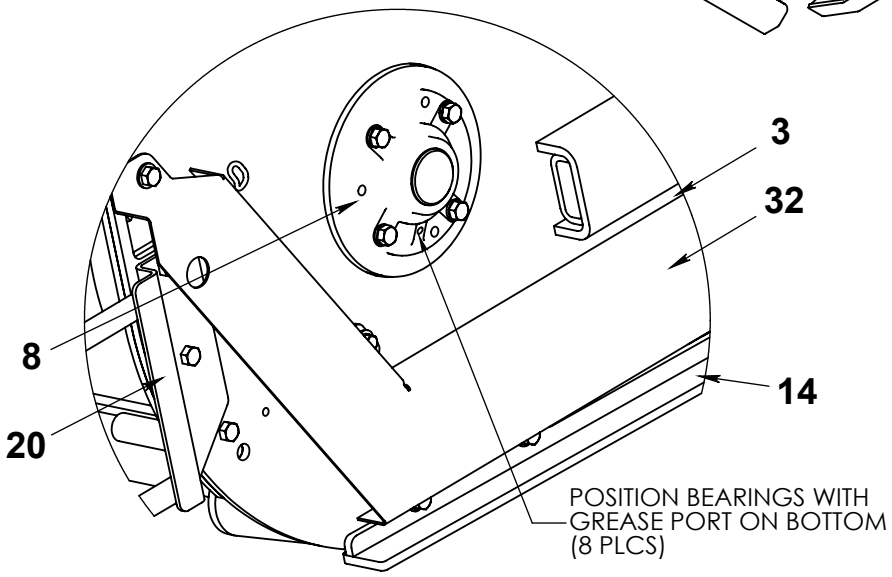
ISO VIEW
REAR

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ASSY- C1 CONVEYOR, SB-2500e
(255812-01)



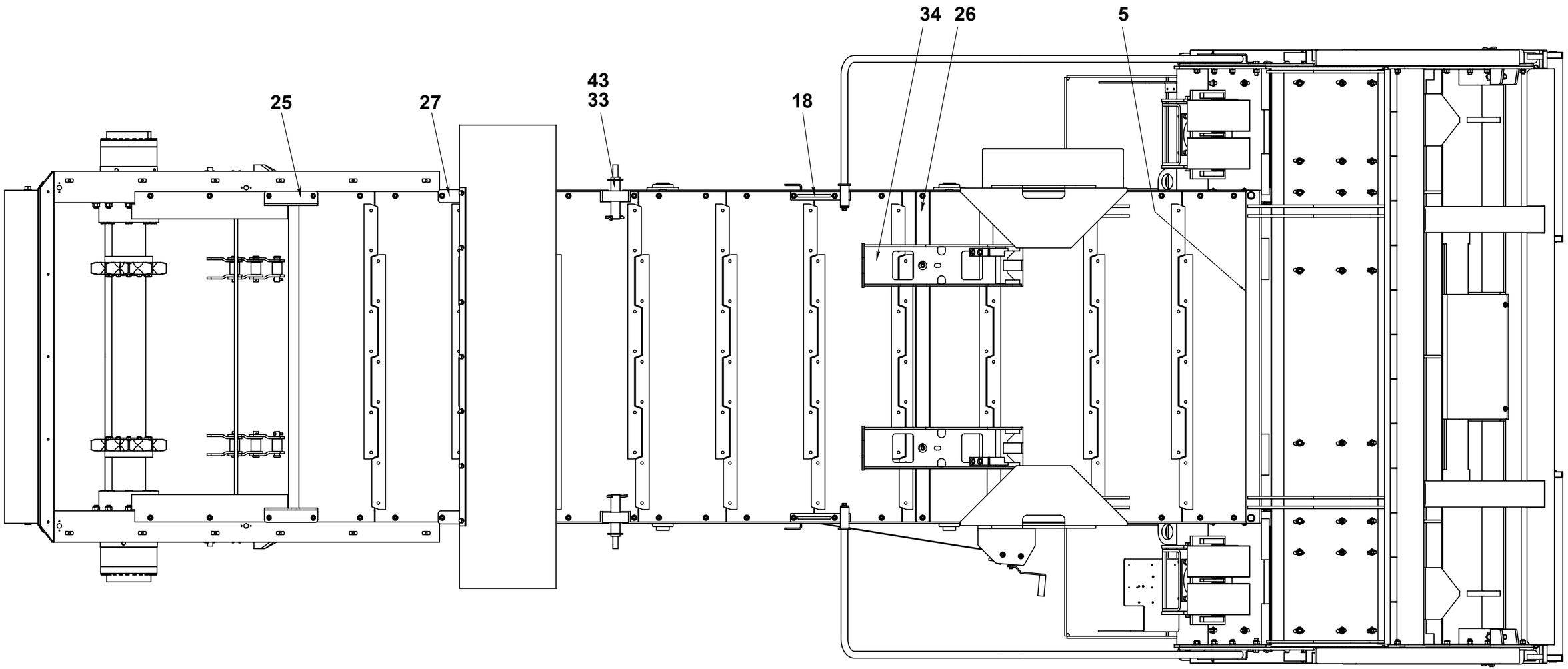
ISO VIEW
BOTTOM



DETAIL B

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ASSY- C1 CONVEYOR, SB-2500e
(255812-01)



BOTTOM VIEW

ASSEMBLY - C1 CONVEYOR SB-2500e (255812-01)

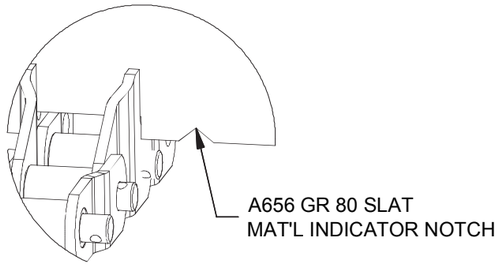
ITEM #	PART NO.	DESCRIPTION	QTY.
1	253646-01	WELDMENT - C1 MAIN	1
2	247638-01	WELDMENT - C1 HOPPER ENDPLATE LH	1
3	247639-01	WELDMENT - C1 HOPPER ENDPLATE RH	1
4	247640-01	ASSEMBLY - C1 CLAD WEAR PLATES SB-2500e	1
5	247650-01	WELDMENT - C1 WEAR PLATE SUPPORT	1
6	220156-01	ASSEMBLY - C1 IDLERS & BEARINGS	3
7	253162-01	ASSEMBLY - C1 TAKE-UP & HEAD SHAFT	1
8	250695-01	ASSEMBLY - C1 FOOT SHAFT	1
9	250118-02	CHAIN - C1 SB-2500e T4	1
10	253651-01	ASSEMBLY - C1 DUMP HOPPER	1
11	220159-01	ASSEMBLY - C1 PUSH ROLLER	1
12	233958-01	ASSEMBLY - C1 TOP COVERS & FUME-X	1
13	222584-01	ASSEMBLY - C1 BAFFLE	1
14	248944-01	WELDMENT - SKID RUNNER LH	1
15	248945-01	WELDMENT - SKID RUNNER RH	1
16	142499-02	ADJUSTABLE CASTER MOUNTING PLATE	2
17	132001-04	CASTER - SWIVEL W/ CAST IRON WHEELS	2
18	247962-03	WELDMENT - HOSE & GUARD RAIL HANGER	2
19	234734-01	WELDMENT - C1 GUARD RAIL LH	1
20	234735-01	WELDMENT - C1 GUARD RAIL LH	1
21	222006-03	WELDMENT - C1 SIDEWALL BRACE	1
22	237781-03	DETAIL - WINCH MOUNTING BRACKET - SB-25OOe	1
23	142469-04	WINCH - 600 # 3.1:1 RATIO	1
24	248768-03	DETAIL - WASHDOWN SPRAYER HOLES COVER	2
25	242439-02	WLDMT - C1 EXIT BRACE	1
26	247649-03	WELDMENT - C1 CYLINDER PROP RETAINER BRACKET	1
27	242444-02	DETAIL - C1 CURTAIN BRACKET	1
28	207381-03	RUBBER - FLASHING	1
29	251497-01	WELDMENT - RH C1 HOPPER HOSE TRAY	1
30	251498-01	WELDMENT - LH C1 HOPPER HOSE TRAY	1
31	99159-03	CLAMP BAR	1
32	223190-03	WELDMENT - DUMP HOPPER HINGE PIN	2
33	99165-04	WELDMENT - PIVOT PIN	2
34	207691-01	WELDMENT - C1 LIFT CYLINDER PROP	2
35	252028-03	ASSY - ADJUSTABLE CYLINDER STOP	2
36	129384-03	DETAIL - C2 INSPECTION PLATE	1
37	249488-03	DETAIL - C1 CONTROL MANIFOLD COVER	1
38	129238-03	DETAIL - CANVAS CLAMP BAR 67 1/2"	1
39	204707-03	DETAIL - CANVAS CLAMP BAR 30"	4
40	233949-01-1	CABLE - 1/8" AIRCRAFT X 120" LG	1
41	142600-04	CLAMP - 1/8" ROPE CRIMP	2
42	136743-04	SCREED FLATWASHER	2
43	27D87	PIN - COTTER 3/8" X 3 1/2"	2
44	144993-04	PIN - 3/16" LYNCH	2
45	23J52	FIT - ELBOW 1/8" NPT M X 1/8" NPT F 90 DEG.	2

ASSEMBLY - C1 CONVEYOR SB-2500e (255812-01)

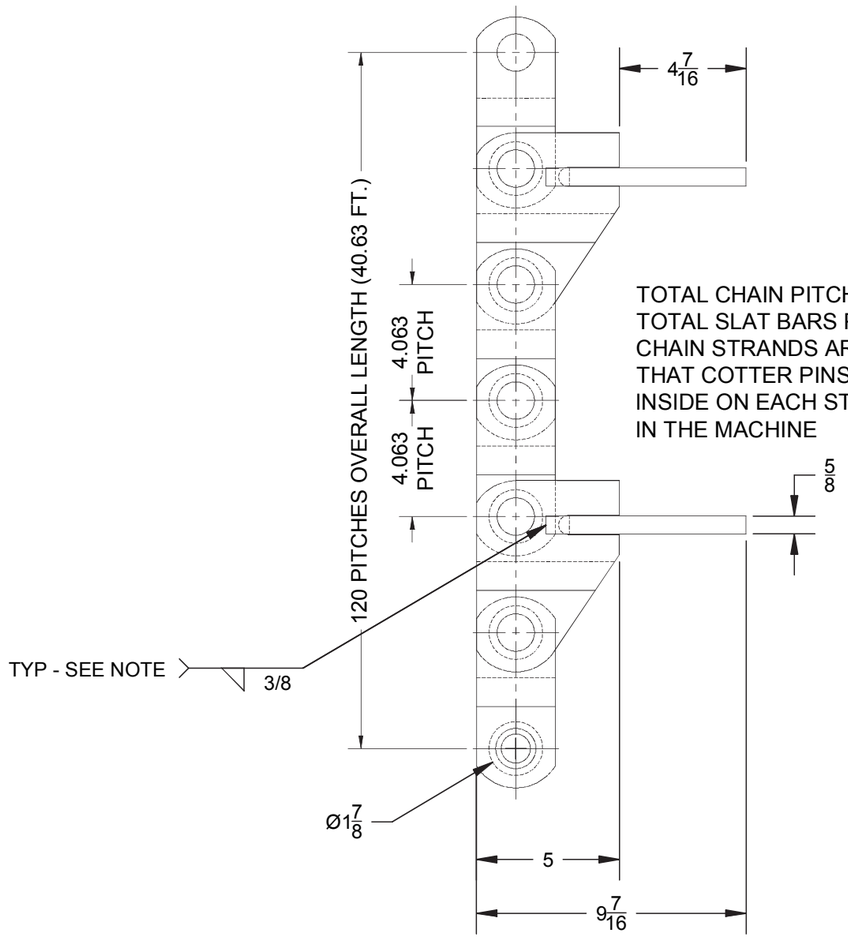
ITEM #	PART NO.	DESCRIPTION	QTY.
46	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M.	4
47	20K33	CLAMP - 3/8" DIA. X 1/2" WIDTH X 1/4	8
48	223470-04	NIPPLE - PIPE 1/8" X 2 1/2" LG STEEL	2
49	238086-04	FITTING - 4 JIC M X 2 NPT F 90 DEG	2
50	83781-04	WASHER - FLAT 1/2" STEEL	6
51	83317	WASHER - LOCK 1/2" SPRING STEEL	15
52	26F83	WASHER - FLAT 5/8 A325 (1 5/16 OD) HW	18
53	89252	BOLT - HEX 5/8"-11 X 2 1/2"	6
54	95301	BOLT - HEX 5/8"-11 X 1 1/4"	4
55	95937	WASHER - FLAT 3/4" HARD	4
56	88164	NUT - 3/4"-10 TOP LOCK GRADE 8	2
57	95932	BOLT - HEX 3/4"-10 X 1 1/2"	2
58	129097	NUT - WING 3/8-16	2
59	83114	BOLT - HEX 1/4"-20 X 1/2"	12
60	83065	WASHER - LOCK 1/4" SPRING STEEL	12
61	84444	WASHER - FLAT 1/4" STEEL	4
62	121835	BOLT - CSK 5/8"-11 X 2"	2
63	89987-04	BOLT - WING 3/8"-16 X 1" GD8	17
64	83757	WASHER - FLAT 3/8 STEEL	22
65	91223-04	BOLT - CSK 5/8"-11 X 1 3/4"	6
66	84717	WASHER - LOCK 5/8" SPRING STEEL	38
67	85148	NUT - 5/8"-11 HEX GRADE 8	34
68	89142	BOLT - HEX 1/2"-13 UNC X 1 3/4"	7
69	128462	BOLT - CSK FLAT 1/2"-13 X 1"	4
70	96476	BOLT - HEX 3/8"-16 X 1 1/4"	2
71	83056	WASHER - LOCK 3/8 SPRING STEEL	2
72	83055	NUT - 3/8-16 HEX GRADE 8	2
73	93189	BOLT - HEX 3/4"-10 X 2 1/4"	8
74	83752-04	WASHER - LOCK 3/4" SPRING STEEL	16
75	84071-04	NUT - 3/4"-10 ASTM HEX 563 A GR8	14
76	96041	BOLT - HEX 5/8-11 X 2"	12
77	93071	BOLT - HEX 3/4"-10 X 2" LG	8
78	93122	BOLT - HEX 5/8"-11 X 2 1/4"	8
79	214951-03-C2	T HEAD COTTER FOR MXS1907 CHAIN	2
80			

CHAIN- 2500e C1 W/ WELDED SLATS
(250118-02)

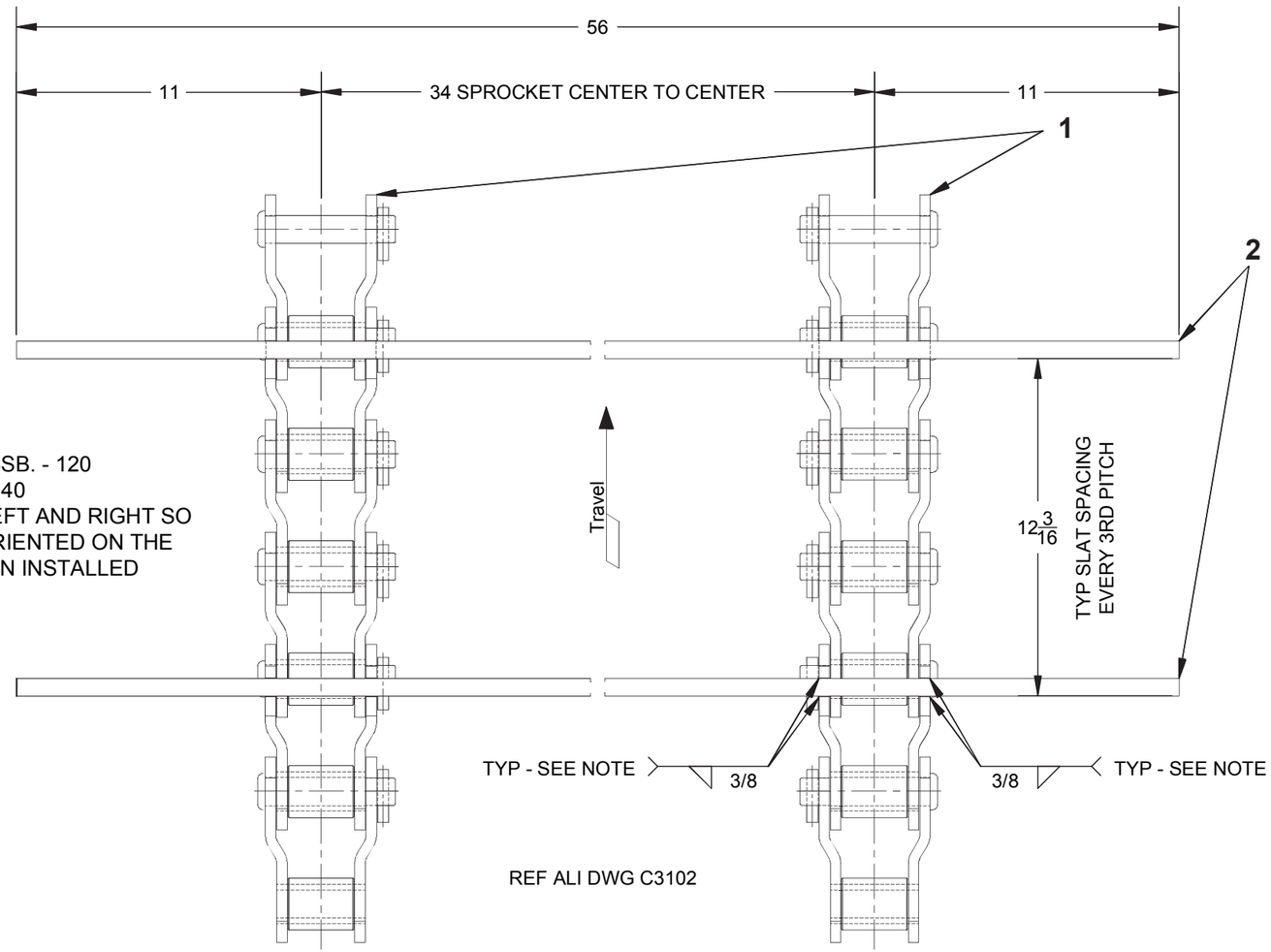
ITEM #	PART NO.	DESCRIPTION	QTY.
1	250119-03	CHAIN - 2500E C1 LESS SLATS	1
2	234063-01-C2	C1 DRAG SLAT ONLY 56" T4	40



1. SLAT AND CHAIN TEMPERATURE MUST BE ABOVE 60°F BEFORE WELDING.
2. BEFORE, DURING AND AFTER WELDING, PROTECT CHAIN AND SLATS FROM DRAFTS FROM OPEN DOORS DURING COLD WEATHER.
3. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS NOT PRESENT:
   3.1. USE SuperArc L-59 WELD WIRE.
4. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS PRESENT:
   4.1. USE Lincolnweld LA-100 WELD WIRE.
5. DO NOT MIX SLAT MAT'LS ON A GIVEN CHAIN.

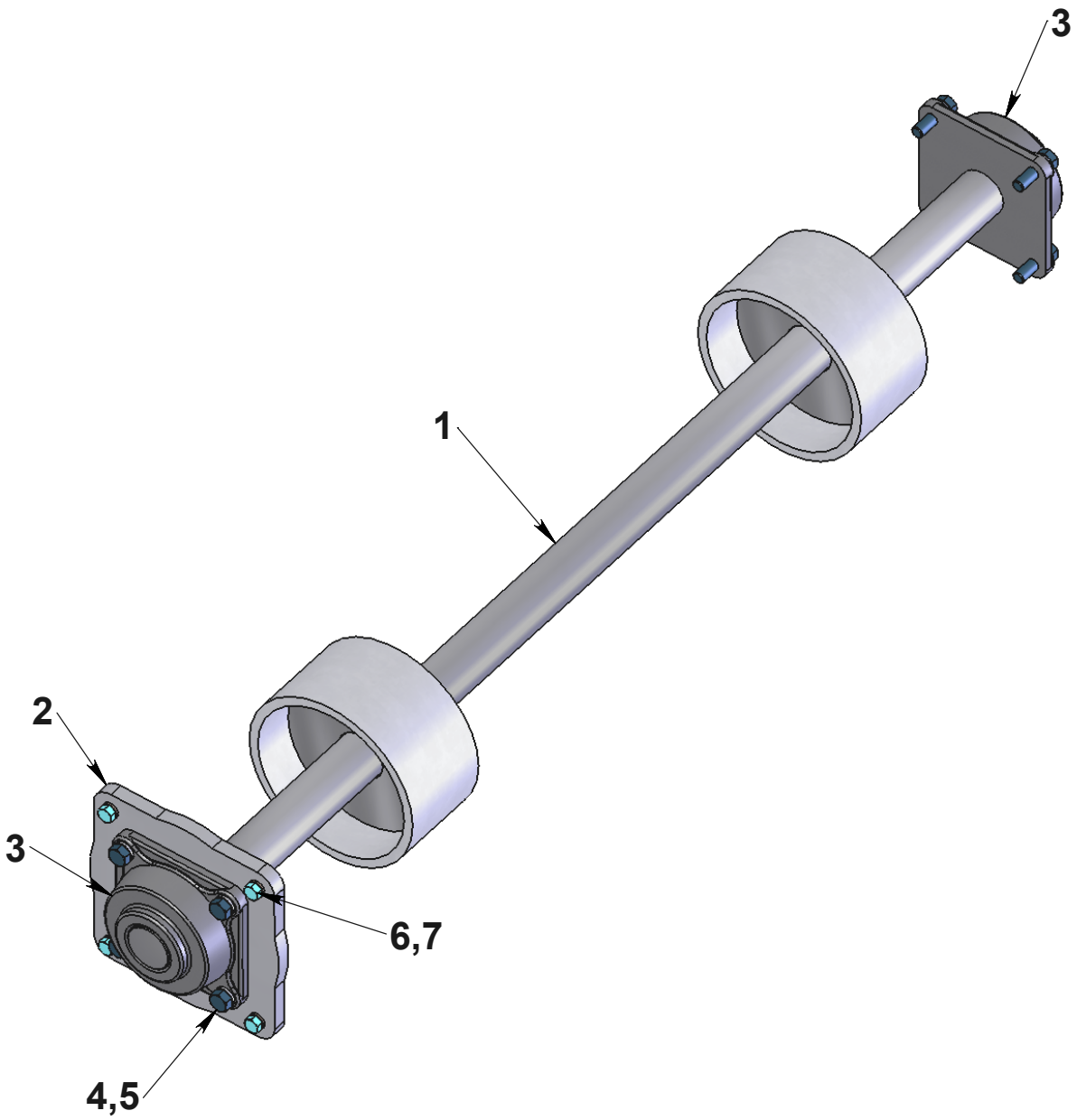


TOTAL CHAIN PITCHES PER ASSB. - 120
TOTAL SLAT BARS PER ASSB - 40
CHAIN STRANDS ARE TO BE LEFT AND RIGHT SO THAT COTTER PINS CAN BE ORIENTED ON THE INSIDE ON EACH STRAND WHEN INSTALLED IN THE MACHINE



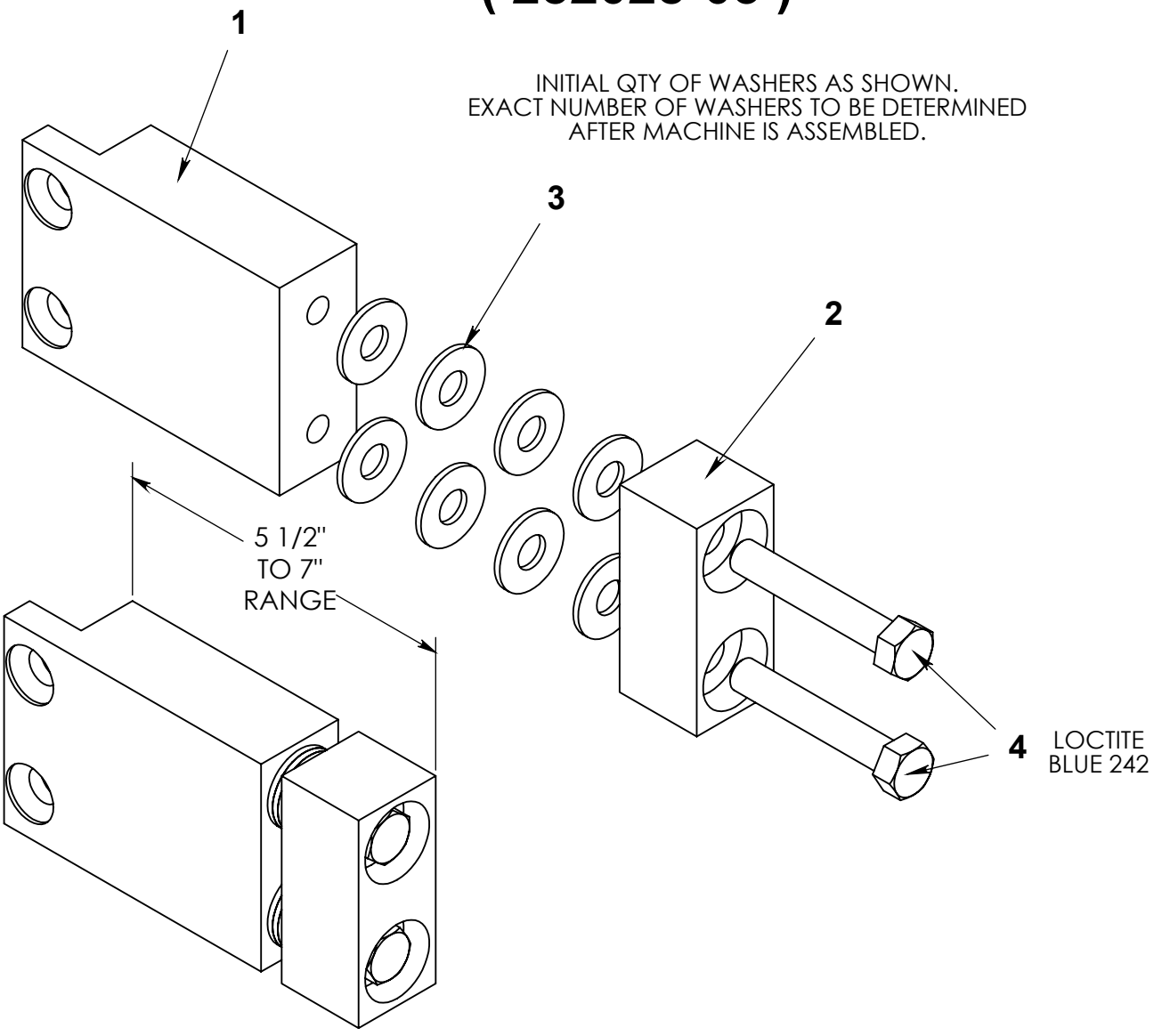
REF ALI DWG C3102

ASSEMBLY, C1 IDLERS AND BEARINGS (220156-01)



ITEM #	PART #	DESCRIPTION	QTY
1	222803-01	WELDMENT, C-1 IDLER SHAFT	1
2	99364-03	BEARING PLATE	1
3	88993-04	BEARING * 4 BOLT FLANGE	2
4	96041	BOLT ~ HEX 5/8-11 x 2"	8
5	84717	WASHER ~ LOCK 5/8" SPRING STEEL	8
6	86164	BOLT * HEX 1/2"-13 X 1 1/4"	4
7	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	4

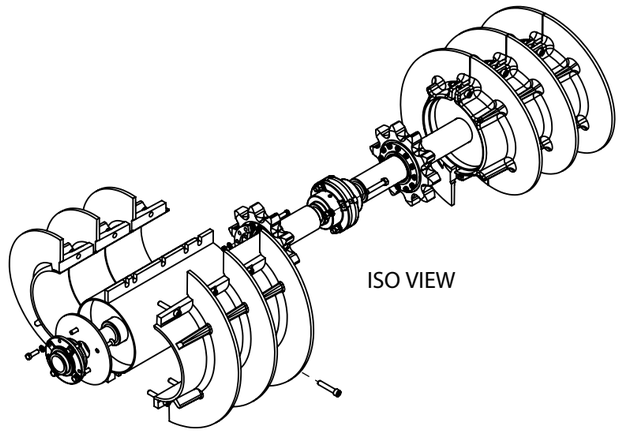
ASSY- ADJUSTABLE CYLINDER STOP
(252028-03)



ITEM #	PART #	DESCRIPTION	QTY.
1	252026-03	DETAIL-ADJUSTABLE CYLINDER STOP	1
2	252027-03	DETAIL-ADJUSTABLE CYLINDER STOP CAP	1
3	83781-04	WASHER * FLAT 1/2" STEEL	8
4	88080-04	BOLT * HEX 1/2"-13 X 3" FULL THRD	2

ASSEMBLY- C1 FOOT SHAFT, SB-2500e
(250695-01)

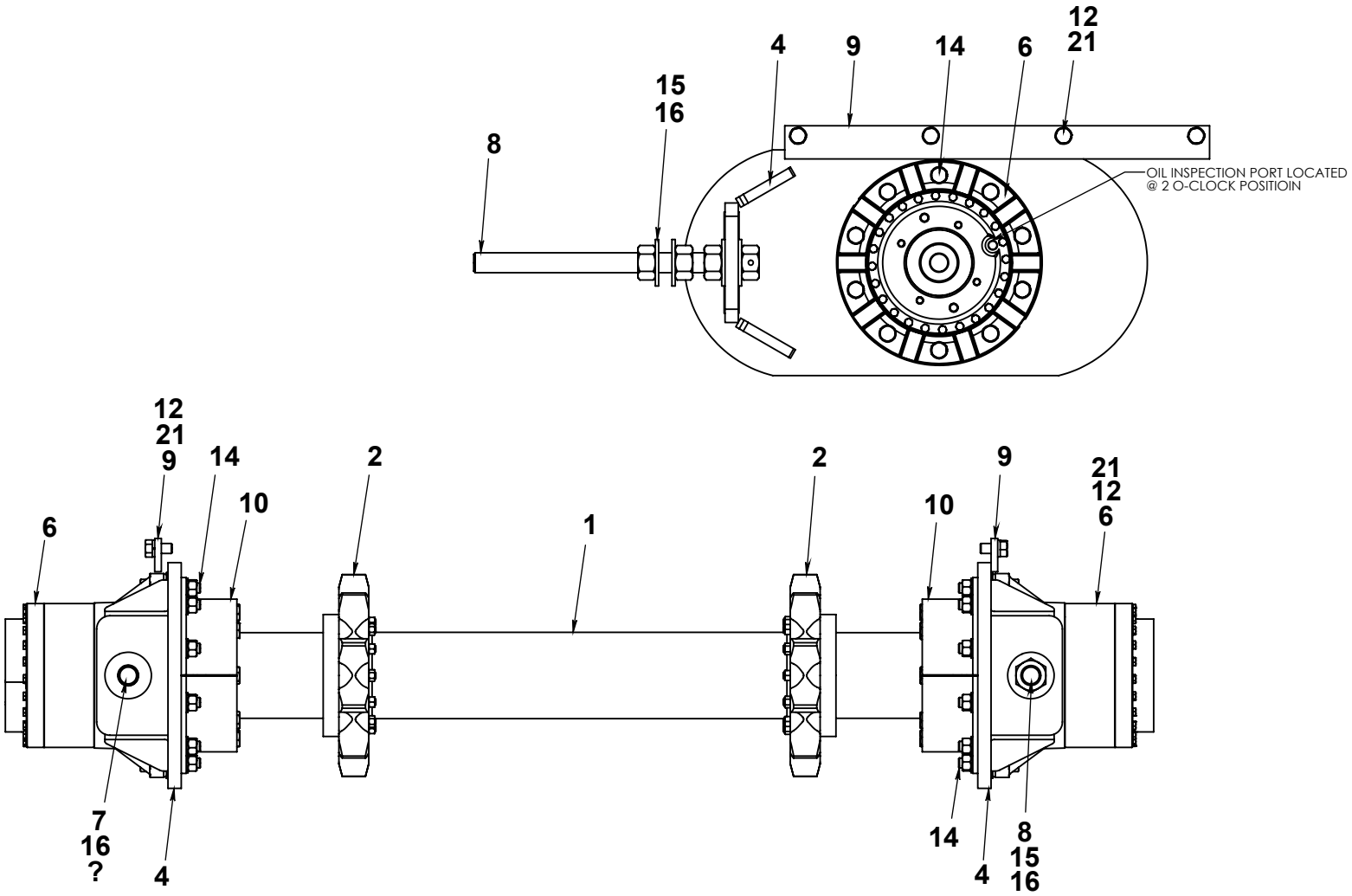
ITEM#	PART #	DESCRIPTION	QTY.
1	222092-01	WELDMENT-C1 FOOTSHAFT	2
2	96003-01A	FLIGHT * BA 8 3/4" R.H.PITCH (L.S.)	6
3	96004A	FLIGHT * BB 8 3/4" L.H.PITCH (R.S)	6
4	250532-03	SPROCKET - 10T FORGED	2
5	139665-04	SPROCKET COVER PLATE	4
6	29M98	BEARING, FLANGED 3" 4-BOLT	2
7	122266-04	BEARING, ROLLER 3" DIA.	2
8	222094-03	DETAIL-COVER PLATE	2
9	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
10	10D63	WASHER ~ 1/2" HARD A325	24
11	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
12	12K35	BOLT * HEX 3/4"-10 x 4"	4
13	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	4
14	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	4
15	95834	SCREW * 3/4"-10 X 4" SOC.HD.	18
16	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	18
17	91223-04	BOLT * CSK 5/8"-11 X 1 3/4"	8
18	84717	WASHER * LOCK 5/8" SPRING STEEL	8
19	96041	BOLT ~ HEX 5/8-11 x 2"	8

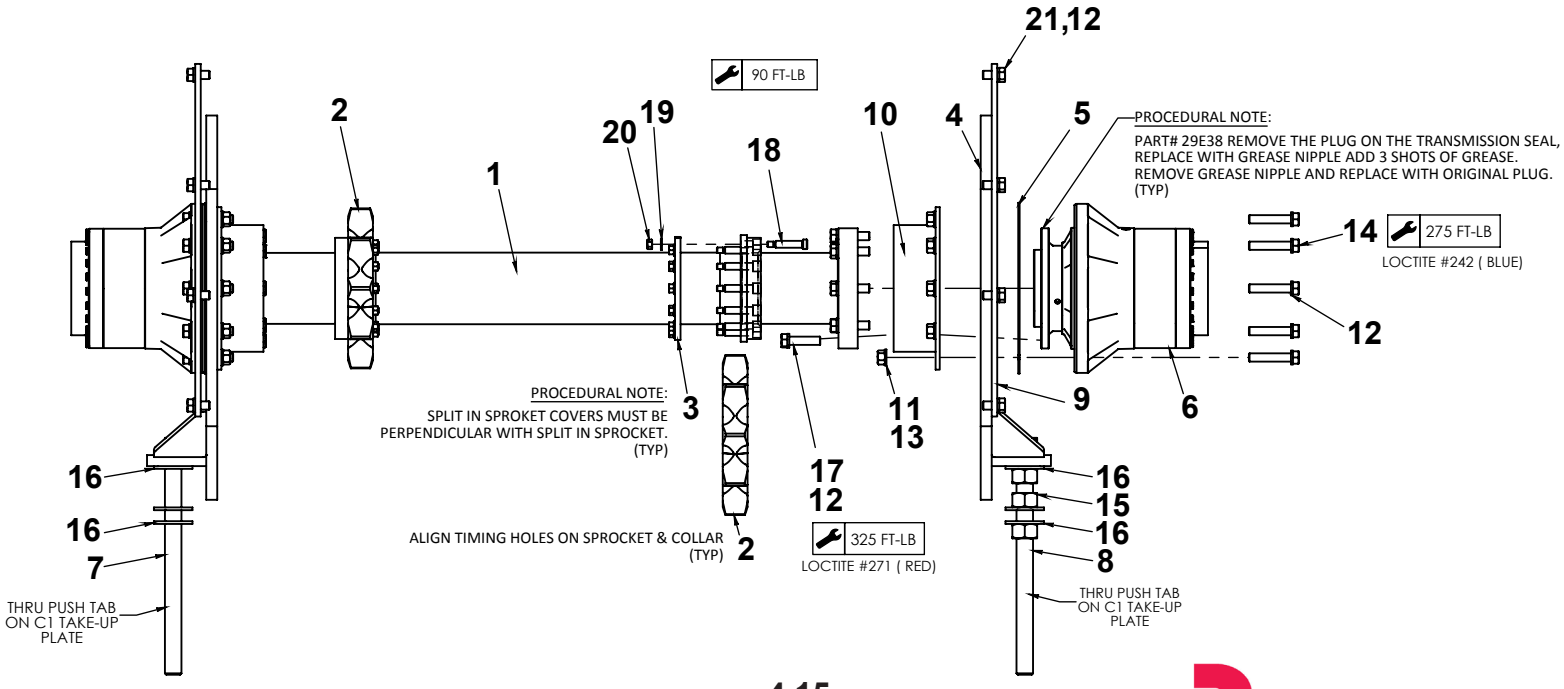


NOTE :
AUGERS ON LEFT SIDE
ARE 180 ° OUT OF PHASE WITH
AUGERS ON RIGHT SIDE.

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ASSEMBLY- C1 TAKE-UP & HEADSHAFT
(253162-01)



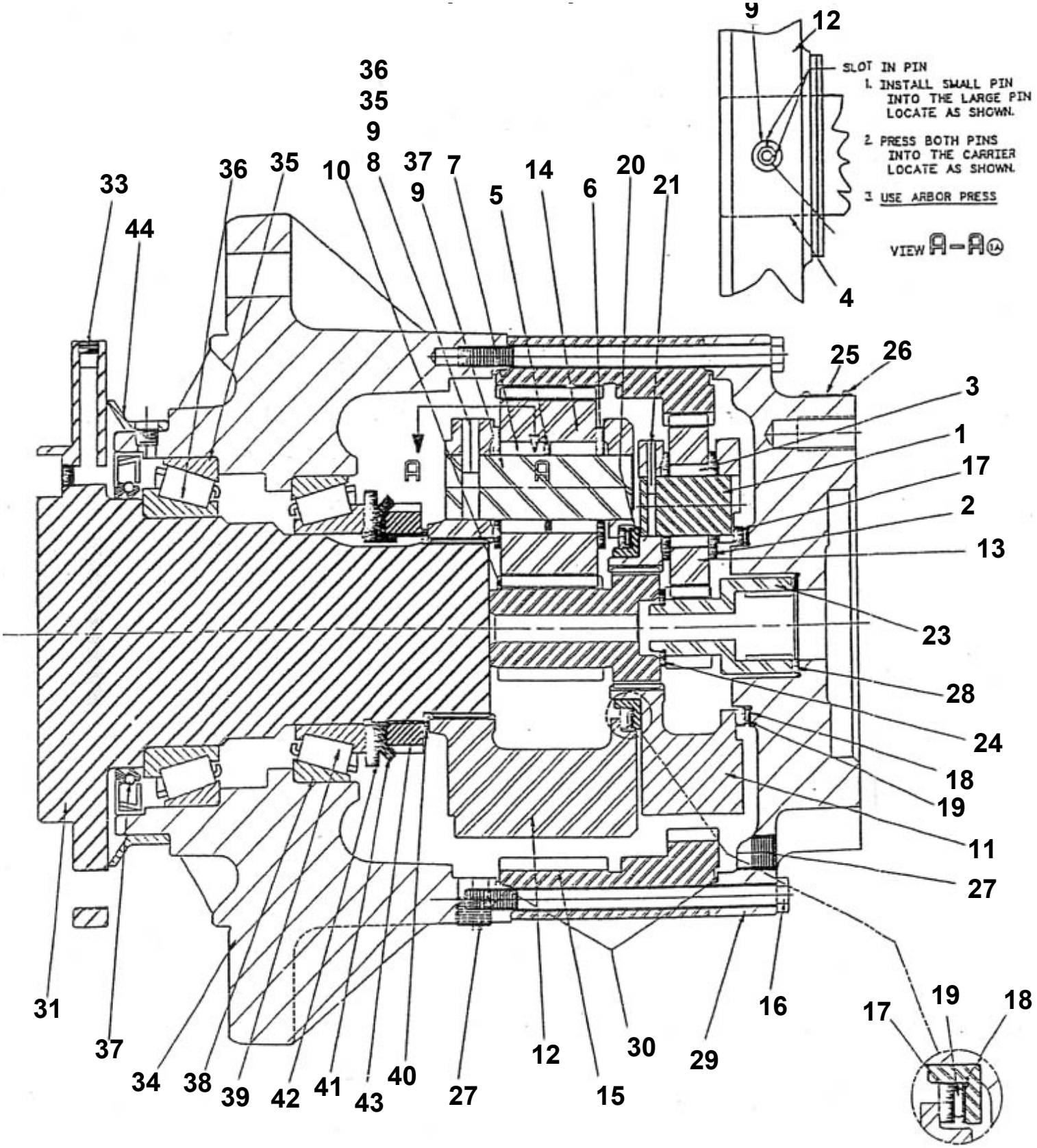


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ASSEMBLY- C1 TAKE-UP & HEADSHAFT
(253162-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	220164-01	WELDMENT- C1 HEAD SHAFT	1
2	250532-03	SPROCKET - 10T FORGED	2
3	139665-04	SPROCKET COVER PLATE	4
4	240811-01	WELDMENT-C1 CONV. TAKE-UP BRACKET	2
5	211345-03	DETAIL-C1 HEADSHAFT SPACER	4
6	29E38	PLANETARY SPEED REDUCER	2
7	222306-04	ASSEMBLY - TAKE-UP SCREW	1
8	250131-03	ASSEMBLY -LH TAKE-UP SCREW	1
9	215750-03	DETAIL-UPPER KEEPER BAR	2
10	223785-01	WELDMENT-C1 DRIVE BOOT GUARD	4
11	95937	WASHER * FLAT 3/4" HARD	20
12	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	44
13	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	20
14	94716	BOLT * HEX 3/4"-10 X 4" FULL THREAD	20
15	250260-04	NUT * 1 1/2"-6 HEX GRADE 8 L.H.	3
16	83032	WASHER * FLAT 1 1/2" N SERIES	8
17	122336	BOLT * HEX 3/4"-16 X 3" GD.8	16
18	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
19	10D63	WASHER ~ 1/2" HARD A325	24
20	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
21	95932	BOLT * HEX 3/4"-10 X 1 1/2"	8

C-1 & C-3 DRIVE GEARBOX
(29E38)

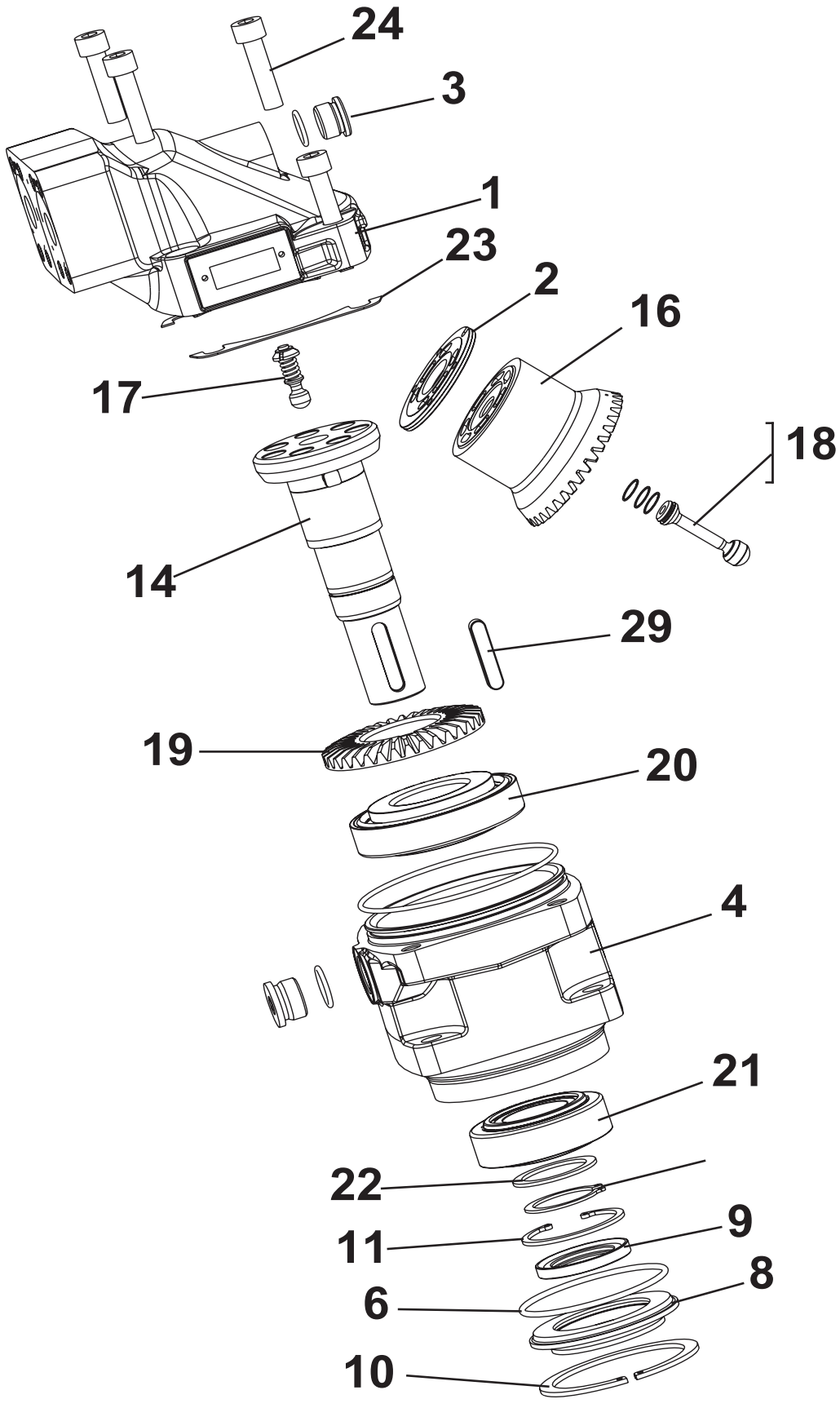


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C-1 & C-3 DRIVE GEARBOX
(29E38)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	92837-C6	SHAFT, PLANET	3
2	92837-C4	WASHER, THRUST	12
3	92837-C3	BEARING, NEEDLE	57
4	91679-04-C3	SHAFT, PLANET	3
5	92837-C16	WASHER, THRUST	3
6	92837-C18	WASHER, THRUST	12
7	92837-C17	BEARING, NEEDLE	108
8	92837-C11	ROLL PIN	3
9	91679-04-C4	SPRING PIN	3
10	29F03-C16	SUN GEAR	1
11	29E38-C2	CARRIER	1
12	29E38-C7	CARRIER	1
13	92837-C2	PLANET, GEAR	3
14	29F03-C17	PLANET, GEAR	3
15	29F03-C18	RING GEAR	1
16	26L62	HEX BOLT	24
17	92837-C7	THRUST WASHER	2
18	84841-02-C9	THRUST WASHER	2
19	84841-02-C10	THRUST WASHER	2
20	29F03-C9	BEARING CARRIER	1
21	92837-C11	ROLL PIN	3
22			
23	29E38-C3	SUN GEAR	1
24	29F03-C11	THRUST WASHER	1
25	206038-01-C11	I.D. PLATE	1
26	23S60-C41	DRIVE SCREW	4
27	200479	PIPE PLUG	2
28	29F03-C10	THRUST WASHER	1
29	29E38-C6	INPUT COVER	1
30	29F03-C8	O-RING	2
31	29F03-C7	SPINDLE	1
32	97010-03-C14	PIPE PLUG	1
33	29E38-C36	PIPE PLUG	4
34	29E-38-C45	HOUSING	1
35	29E38-C4	BEARING, TAPERED-CUP	1
36	29F03-C8	BEARING, TAPERED-CONE	1
37	29F03-C2	LIP SEAL	1
38	29E38-C5	BEARING, TAPERED-CUP	1
39	29F03-C14	BEARING, TAPERED-CONE	1
40	29F03-C5	RETAINING RING	1
41	29F03-C3	LOCK WASHER	1
42	29F03-C13	FLAT WASHER	1
43	29F03-C12	NUT, BEARING	1
44	29F03-C1	BOOT SEAL	1
45	29E38-C9	SEAL KIT	1

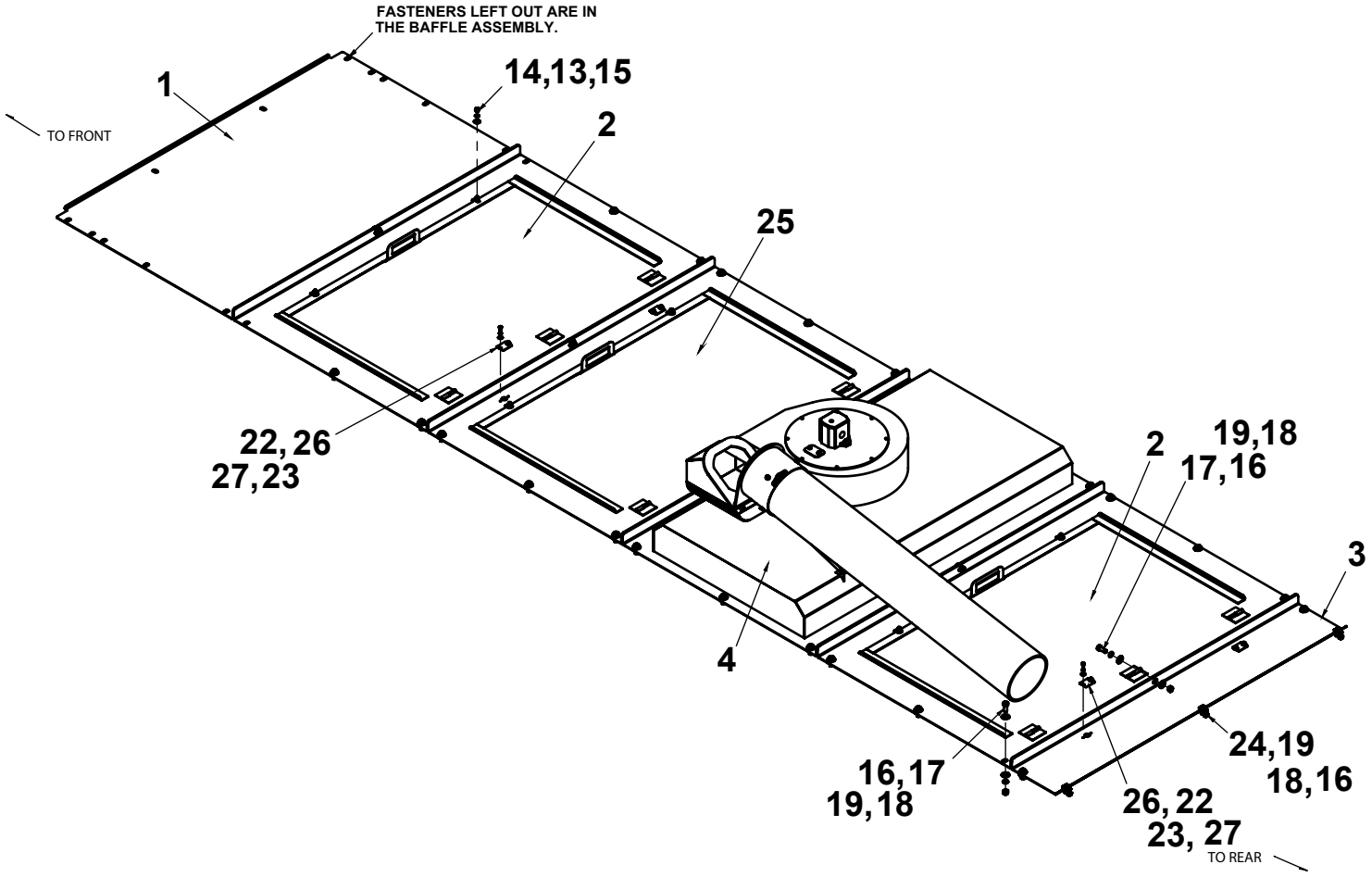
C-1 CONVEYOR DRIVE MOTOR
(142642-04) With two tappered roller bearings

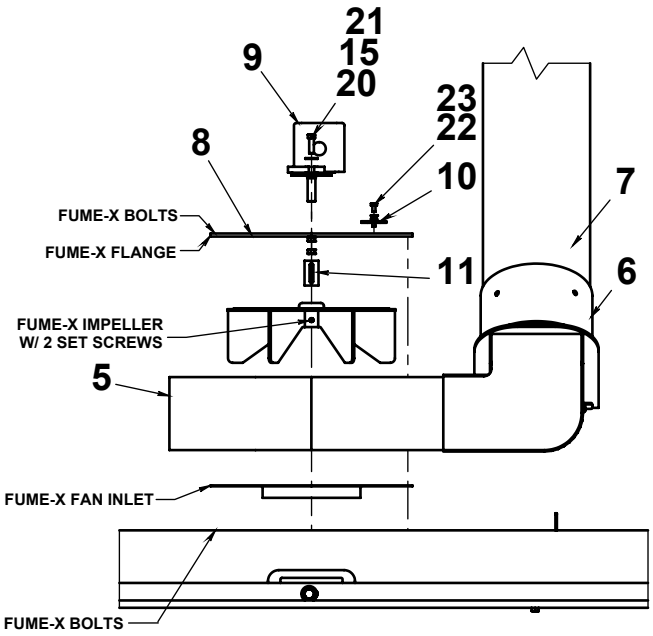


C-1 CONVEYOR DRIVE MOTOR
(142642-04)

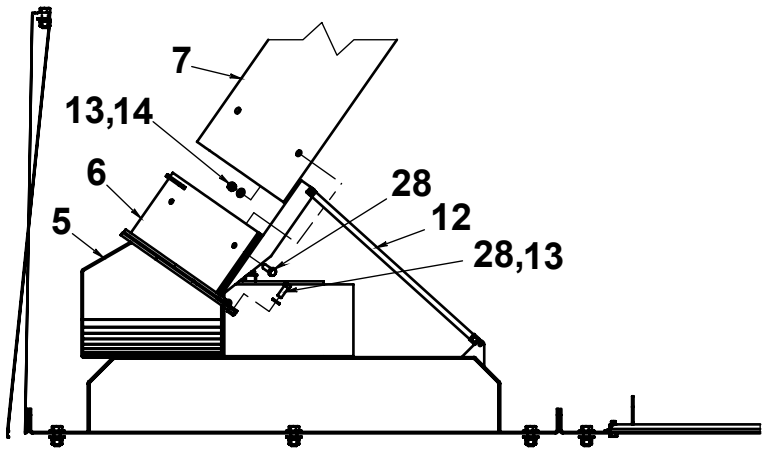
ITEM #	PART NO.	DESCRIPTION	QTY.
1	142642-04-C8	BARREL HOUSING	1
2	142642-04-C9	VALVE PLATE	1
3	142642-04-C10	HEX SOCKET PLUG	1
4	142642-04-C11	BEARING HOUSING	1
5	142642-04-C12	O-RING	1
6	142642-04-C13	O-RING	1
7	142642-04-C14	O-RING	1
8	142642-04-C15	SEAL CARRIER	1
9	142642-04-C16	SHAFT SEAL	1
10	142642-04-C17	RETAINING RING	1
11	142642-04-C18	RETAINING RING	1
12	142642-04-C19	BLEEDER PLUG	1
13	142642-04-C20	SEAL WASHER	1
14	142642-04-C6	SHAFT ASSY. (SHAFT & BEARING)	1
15	142642-04-C21	GUIDE PIN	1
16	142642-04-C22	CYLINDER BARREL	1
17	142642-04-C23	BARREL SUPPORT	1
18	142642-04-C7	PISTON ASSY.	1
19	142642-04-C24	RING GEAR	1
20	142642-04-C25	TAP ROL BEARING	1
21	142642-04-C26	TAP ROL BEARING	1
22		SPACER WASHER	
23		SHIM	2
24	142642-04-C27	HEX HD. SCREW	4
25	142642-04-C2	SHAFT SEAL	1
26	142642-04-C3	PISTON ASSY.	1
27	142642-04-C1	SEAL KIT	1
28	142642-04-C5	PISTON RING KIT	1
29		FLAT KEY	
30			

ASSY- C1 TOP COVERS & FUME-X
(233958-01)





PARTIAL END VIEW



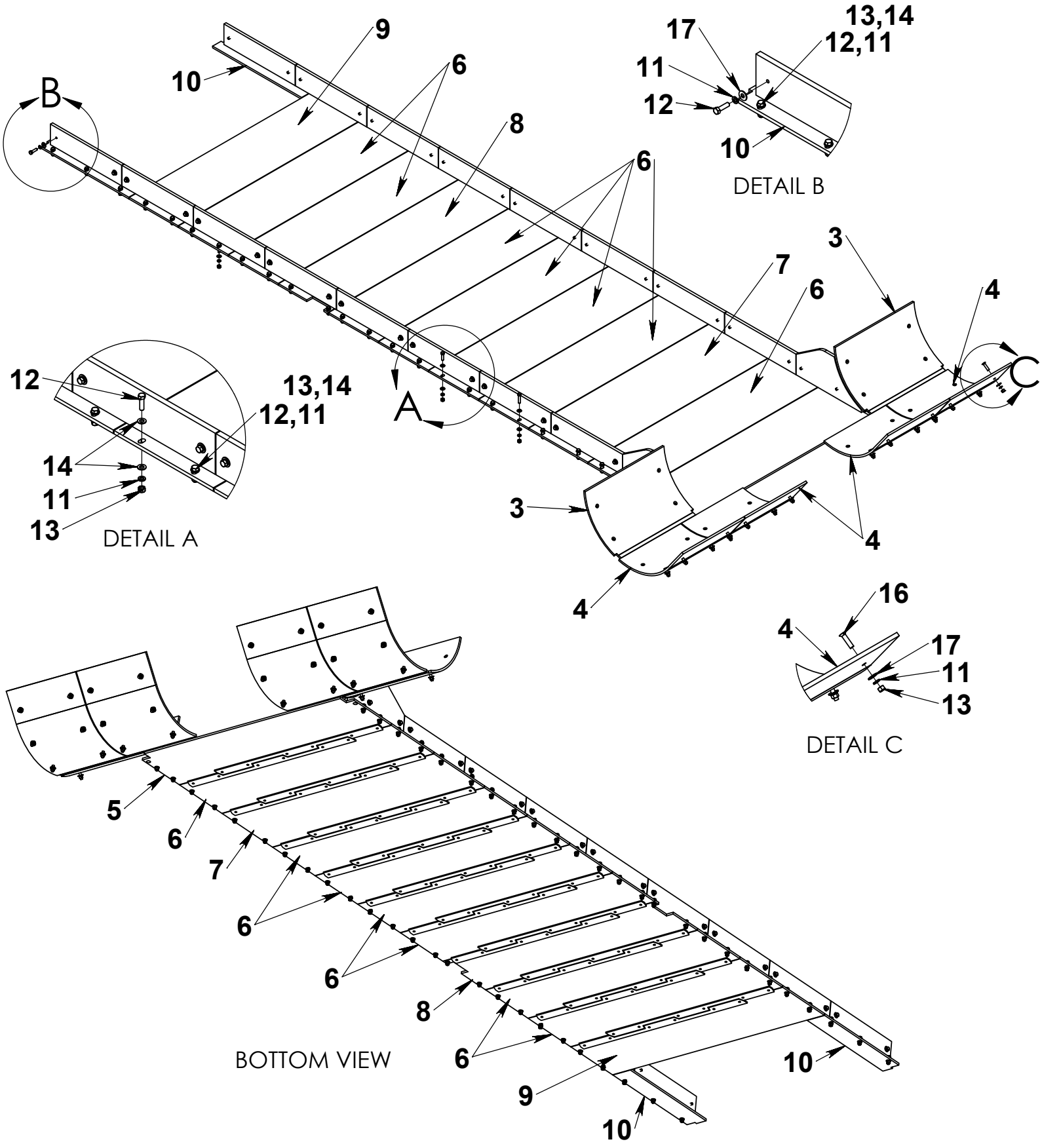
PARTIAL EDGE VIEW

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ASSY- C1 TOP COVERS & FUME-X
(233958-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	221947-01	DETAIL-C1 TOP COVER	1
2	222438-01	WLDT-TOP COVER C1 CONVEYOR	2
3	235248-01	DETAIL-C1 TOP COVER	1
4	233959-01	WELDMENT-C1 FUME-X COVER	1
5	234693-01	WELDMENT-C1 BLOWER SHROUD	1
6	234076-02	WELDMENT-FAN SHROUD VENT EXT.	1
7	129227-03	DETAIL-VENT PIPE	1
8	134686-01	BLOWER MOTOR MOUNTING PLATE (SUND)	1
9	215588-04	MOTOR - HYD 0.66 CID	1
10	134687-04	DETAIL-INSPECTION COVER	1
11	130665-04	BUSHING & KEY	1
12	133967-04	SPRING * 1/2"OD. 10"LG X 1/16"WIRE	1
13	83056	WASHER ~ LOCK 3/8 SPRING STEEL	13
14	83055	NUT * 3/8-16 HEX GRADE 8	10
15	83757	WASHER ~ FLAT 3/8 STEEL	8
16	83781-04	WASHER * FLAT 1/2" STEEL	64
17	86164	BOLT * HEX 1/2"-13 X 1 1/4"	29
18	83317	WASHER * LOCK 1/2" SPRING STEEL	32
19	83288	NUT * 1/2"-13 HEX GRADE 8	32
20	96476	BOLT * HEX 3/8"-16 X 1 1/4"	2
21	92235	NUT * 3/8"-16 LOCK GRADE 8	2
22	83114	BOLT * HEX 1/4"-20 X 1/2"	10
23	83065	WASHER * LOCK 1/4" SPRING STEEL	10
24	93144	BOLT * HEX 1/2"-13 X 1 1/2"	3
25	247062-01	WLDT-C1 TOP COVER, AUTO WASH	1
26	248768-03	DETAIL-WASHDOWN SPRAYER HOLES COVER	4
27	84444	WASHER * FLAT 1/4" STEEL	8
28	84332	BOLT * HEX 3/8"-16 X 1"	7

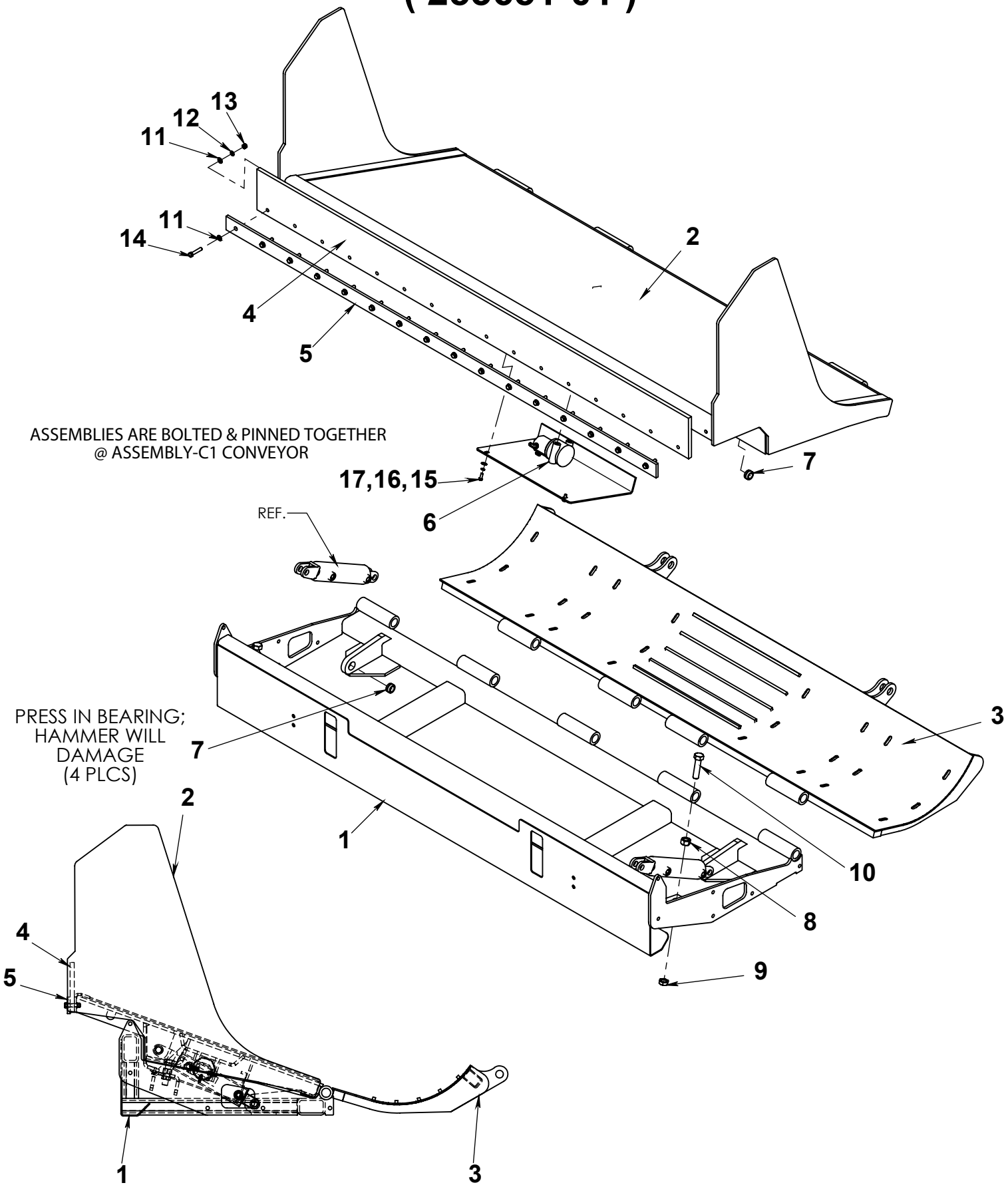
ASSY-C1 CLAD WEAR PLATES SB-2500E (247640-01)



ASSY-C1 CLAD WEAR PLATES SB-2500E (247640-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	149877-03	PLATE* C1&3 SIDE WEAR PLATE	16
2	250064-03	PLATE*C1 FIRST SIDE WEAR PLATE	2
3	235148-02	DETAIL-C1 UPPER AUGER LINER, CLAD	2
4	235149-02	DETAIL-C1 LOWER AUGER LINER, CLAD	4
5	247641-02	WELDMENT-C1 LINER CLAD, 1ST	1
6	247642-02	WELDMENT-C1 LINER CLAD, 2ND COMMON	7
7	247643-02	WELDMENT-C1 LINER CLAD, 3RD	1
8	247644-02	WELDMENT-C1 LINER CLAD, PIVOT	1
9	247645-02	WELDMENT-C1 LINER CLAD, EXIT	1
10	247646-03	DETAIL-C1 LINER CLAD, EXIT EDGE	2
11	83317	WASHER * LOCK 1/2" SPRING STEEL	118
12	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	76
13	83288	NUT * 1/2"-13 HEX GRADE 8	82
14	10D63	WASHER ~ 1/2" HARD A325	100
15	26C56	BOLT * HEX 1/2"-13 X 2 1/4"	8
16	95847	CSK. BOLT * 1/2"-13 X 2"	32
17	83781-04	WASHER * FLAT 1/2" STEEL	68
18	84674	BOLT ~ HEX 1/2"-13 x 2"	2

ASSY- C1 DUMP HOPPER
(253651-01)

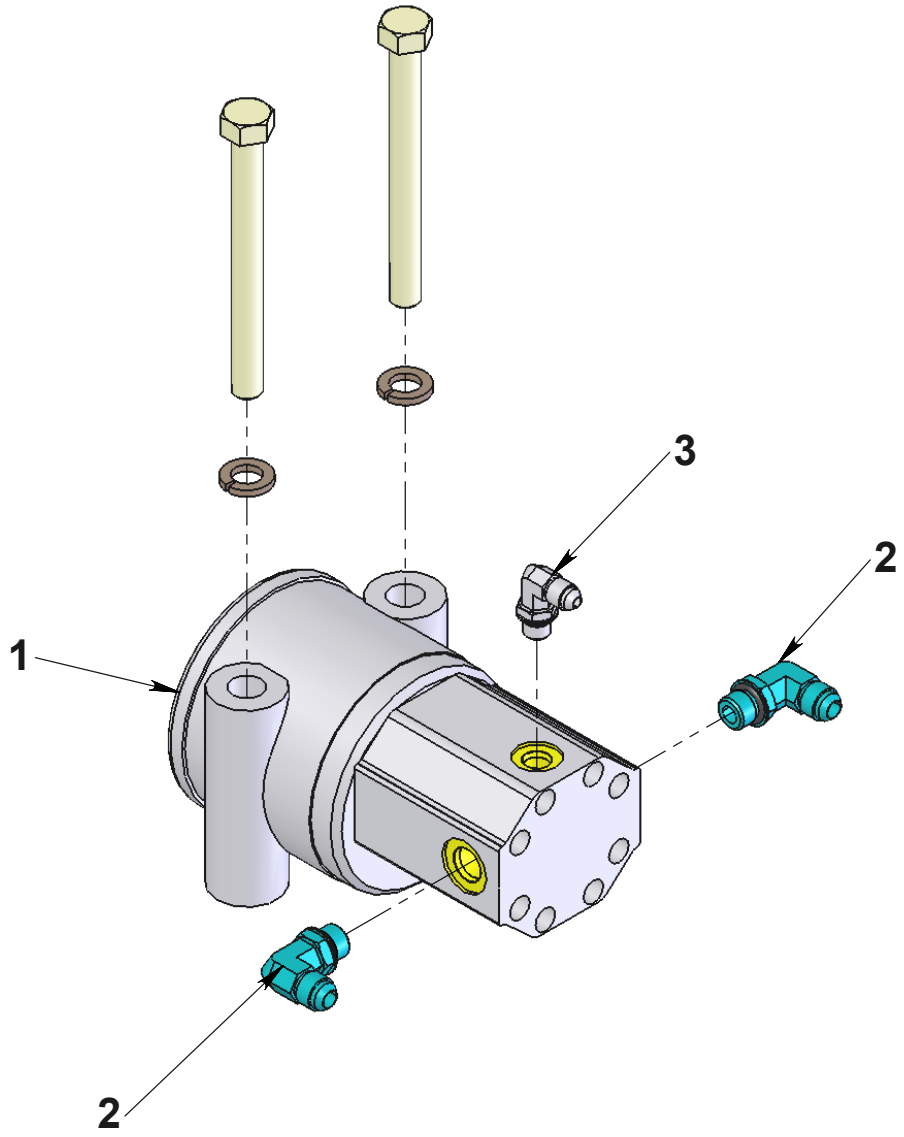


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ASSY- C1 DUMP HOPPER
(253651-01)

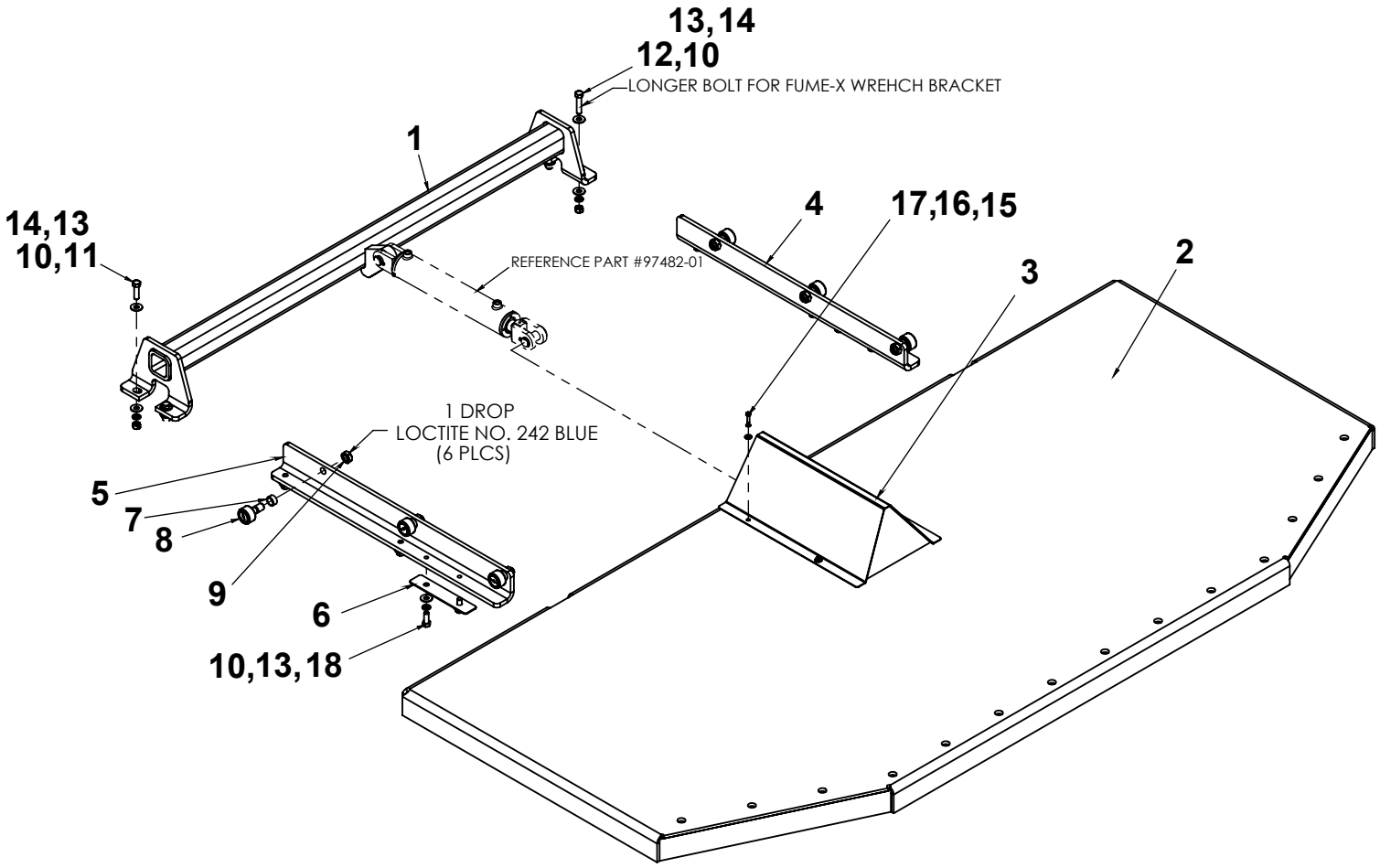
ITEM #	PART #	DESCRIPTION	QTY.
1	253648-01	WELDMENT-C1 HOPPER UNDERCARRIAGE	1
2	247636-01	WELDMENT-DUMP HOPPER	1
3	247637-01	WELDMENT-C1 CLEAN OUT DOOR	1
4	250070-03	DETAIL-RUBBER FLASHING	1
5	250819-03	DETAIL-C1 FLASHING CLAMP BAR	1
6	214654-01	ASSEMBLY-VIBRATOR	1
7	133846	BEARING * SPHERICAL 1"BORE DIA.	4
8	98453	NUT * HEX 1"-8 UNC GRADE 8	2
9	88445-04	NUT * 1"-8 UNC JAM	2
10	135111	HEX ~ 1"-8 x 4 FULL THREAD GD.8	2
11	10D63	WASHER ~ 1/2" HARD A325	32
12	83317	WASHER * LOCK 1/2" SPRING STEEL	16
13	83288	NUT * 1/2"-13 HEX GRADE 8	16
14	93121	BOLT * HEX 1/2"-13 X 2 1/2"	16
15	84332	BOLT * HEX 3/8"-16 X 1"	2
16	83757	WASHER ~ FLAT 3/8 STEEL	2
17	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2

VIBRATOR ASSEMBLY
(214654-01)



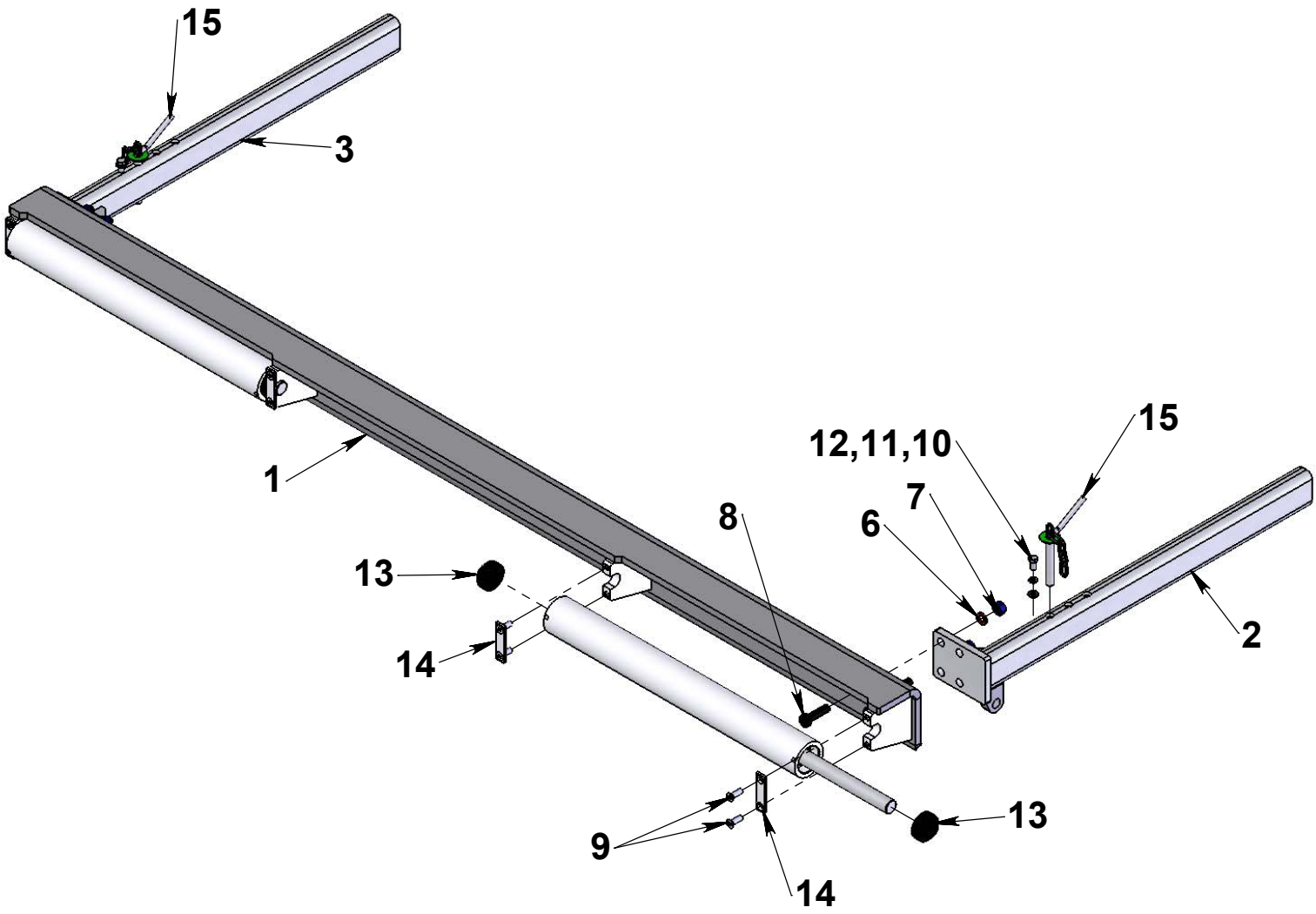
ITEM #	PART #	DESCRIPTION	QTY
1	149125-04	HYD.DRIVEN VIBRATOR 782 LB 9000 RPM	1
2	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	2
3	83743-04	ELBOW 90 DEG M W_NUT, WASHER, O-RING 4 JIC - 4 SAE	1

ASSEMBLY- C1 BAFFLE
(222584-01)



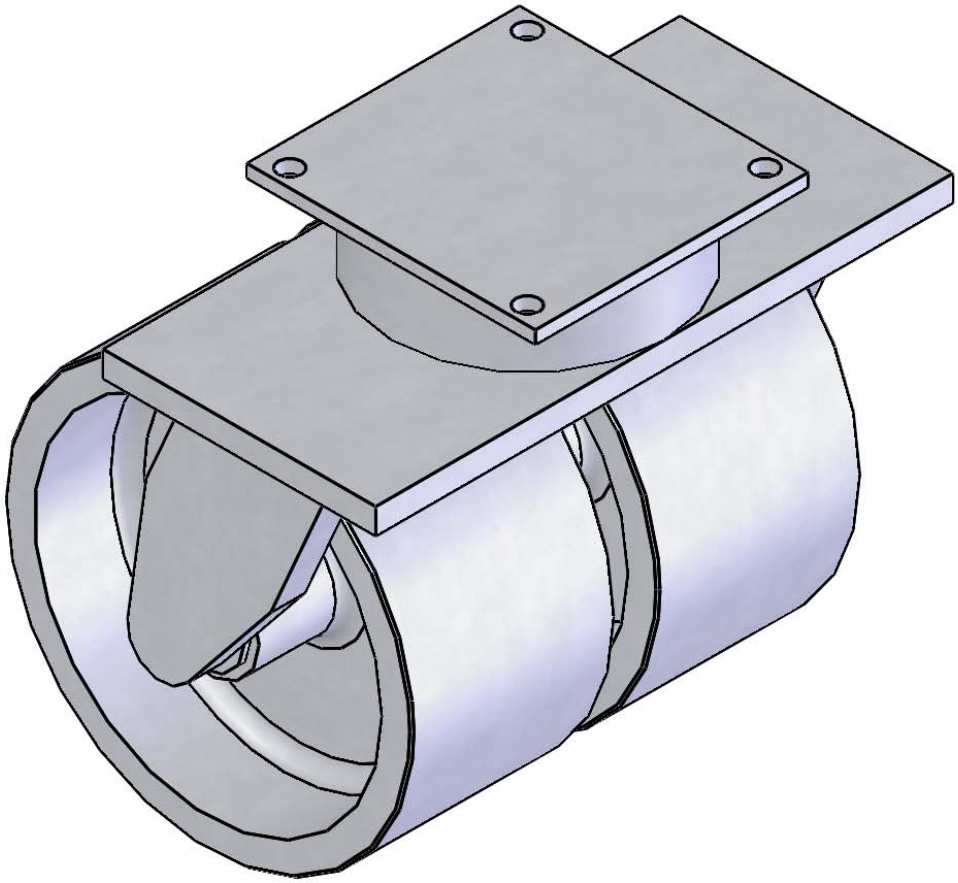
ITEM #	PART #	DESCRIPTION	QTY.
1	223002-01	WLDT-BAFFLE CYLINDER SUPPORT-2500E	1
2	222398-01	WELDMENT-BAFFLE-SB-2500D	1
3	141583-01	WELDMENT-HYDRAULIC CYLINDER COVER	1
4	222402-03	DETAIL-LH BAFFLE GUIDE	1
5	222403-03	DETAIL-RH BAFFLE GUIDE	1
6	222404-04	PLATE, 11 GA x 1 3/4 x 8 1/2, A1011	2
7	230888-04	DETAIL - SPACER FOR BAFFLE ROLLER	6
8	137544-04	BEARING * CAM FOLLOWER	6
9	97169	NUT * JAM 3/4"-16 RIGHT HAND THREAD	6
10	83781-04	WASHER * FLAT 1/2" STEEL	16
11	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	2
12	26C56	BOLT * HEX 1/2"-13 X 2 1/4"	2
13	83317	WASHER * LOCK 1/2" SPRING STEEL	12
14	83288	NUT * 1/2"-13 HEX GRADE 8	4
15	84444	WASHER * FLAT 1/4" STEEL	4
16	83065	WASHER * LOCK 1/4" SPRING STEEL	4
17	89773	BOLT * HEX 1/4"-20 X 1"	4
18	86164	BOLT * HEX 1/2"-13 X 1 1/4"	8

ASSEMBLY-C1 PUSH ROLLER
(220159-01)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	220160-01	WELDMENT-PUSH ROLLER BAR	1
2	212467-01L	WELDMENT-PUSH ROLLER SUPPORT, LH	1
3	212467-01R	WELDMENT-PUSH ROLLER SUPPORT, RH	1
4	137441-02	DETAIL-34" PUSH ROLLER	2
5	134626-02	DETAIL-PUSH ROLLER SHAFT	2
6	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	8
7	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	8
8	95930	BOLT * HEX 3/4"-10 X 2 3/4"	8
9	26C72	BOLT ~ CSK 1/2-13 x 1 1/2	8
10	83754	BOLT * HEX 1/2"-13 X 1"	2
11	83317	WASHER * LOCK 1/2" SPRING STEEL	2
12	10D63	WASHER ~ 1/2" HARD A325	2
13	84734-04	BEARING * SEALMASTER 1 7/16" SL23	4
14	149088-04	PUSH ROLLER LOCK BAR	4
15	148064-03	WELDMENT-PUSH ROLLER LOCKING	2
16			-

CASTER * SWIVEL W/CAST IRON WHEELS (132001-04)

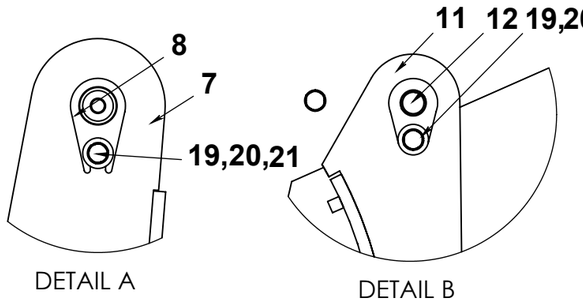


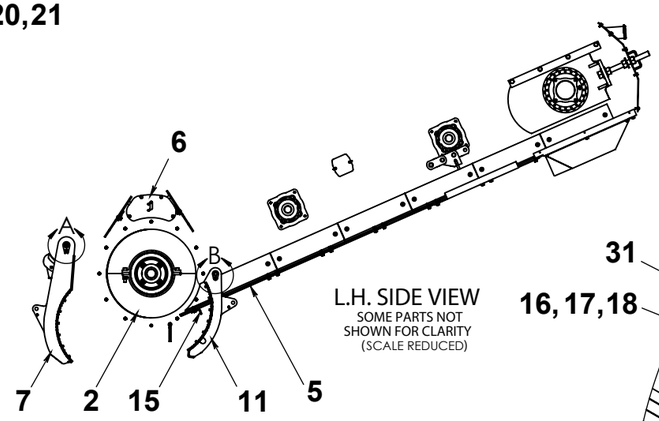
ITEM #	PART #	DESCRIPTION	QTY
1	132001-04	CASTER * SWIVEL W/CAST IRON WHEELS	1

SB-2500e C2 CONVEYOR ASSY. (255813-01)

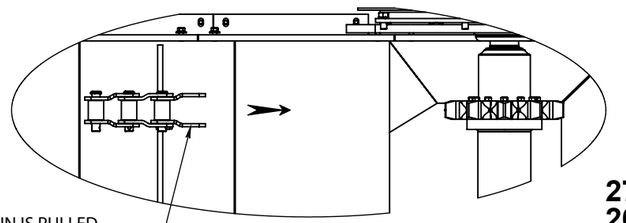
ITEM #	PART NO.	DESCRIPTION	QTY.
1	253164-01	ASSY - C2 HEADSHAFT & TAKE-UP	1
2	250696-01	ASSY - C2 FOOTSHAFT & AUGER	1
3	235574-01	ASSY - C2 IDLERS	1
4	250120-02	CHAIN - C2 T4	1
5	247593-01	ASSY - C2 CLAD WEAR PLATES	1
6	235462-01	ASSY - FLOWGATES T4	1
7	251802-01	WLDMT - C2 FRONT HOPPER COD	1
8	235799-03	WLDMT - C2 CLEAN OUT DOOR PIN	2
9	235775-02	WLDMT - C2 CHAIN ACCESS DOOR	1
10	235800-01	WLDMT - C2 WASHDOWN PANEL W/ FUMEX	1
11	251803-01	WLDMT - C2 HOOPER REAR DOOR	1
12	247596-02	WLDMT - CLEAN OUT DOOR PIN	2
13	129384-03	DETAIL - C2 INSPECTION PLATE	1
14	248768-03	DETAIL - WASHDOWN SPRAYER HOLES COVER	2
15	251708-03	DETAIL - C2 STIFFNER ANGLE	1
16	83757	FLAT WASHER - 3/8" STEEL	18
17	83056	LOCK WASHER - 3/8" SPRING STEEL	16
18	84332	HEX BOLT - 3/8-16 X 1"	16
19	86164	HEX BOLT - 1/2-13 X 1 1/4"	4
20	83317	LOCK WASHER - 1/2" SPRING STEEL	4
21	83781-04	FLAT WASHER - 1/2" STEEL	4
22	129097	WING NUT - 3/8-16	2
23	23J52	FIT - ELBOW 1/8" NPT M X 1/8" NPT F 90 DEG.	2
24	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M	4
25	129000	CLAMPS - HOSE 4 1/2" IDEAL #6464	2
26	86134	1/8" NPT NIPPLE	2
27	238086-04	FIT - 4 JIC M X 2 NPT F 90 DEG.	2
28	83114	HEX BOLT - 1/4-20 X 1/2"	4
29	83065	LOCK WASHER - 1/4" SPRING STEEL	4
30	84444	FLAT WASHER - 1/4" STEEL	4
31	251841-03	WLDMT - C2 COD CAM FACE	1
32	251804-03	WLDMT - C2 CLEANOUT DOOR LATCH PIN	2
33	97340	SET SCREW - 1/2-13 X 1 1/2"	2
34	214951-03-C2	T HEAD COTTER PIN MXS1907 CHAIN	2
35			

ASSY- SECONDARY CONVEYOR, SB-2500e
(255813-01)



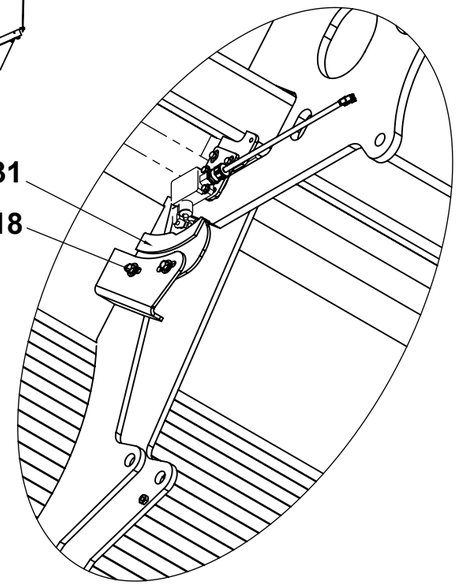


L.H. SIDE VIEW
SOME PARTS NOT SHOWN FOR CLARITY
(SCALE REDUCED)

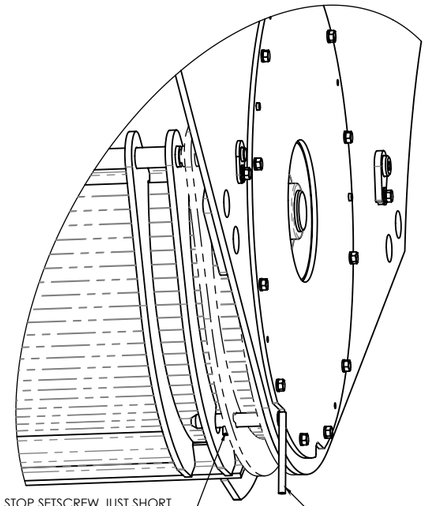


CROPPED TOP VIEW
SOME PARTS NOT SHOWN FOR CLARITY
(SCALE REDUCED)

NOTE:
AS THE CHAIN IS PULLED ALONG THE WEAR PLATES, THE WIDE END OF THE CHAIN IS TO POINT TOWARD THE SROCKET.



C2 CLEAN OUT DOOR SWITCH LOCATION
(VIEW ROTATED)



STOP SETSCREW JUST SHORT OF GOING THRU.
USE Loctite® #242 (BLUE) ON SET SCREWS (2 PLCS)

C2 CLEAN OUT DOOR LOCKING PIN
(VIEW ROTATED)

NOTE:
FITTINGS TYP. TO OPPOSITE SIDE.

* GREASE LINES ARE SUPPLIED W/HOSE KIT

NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

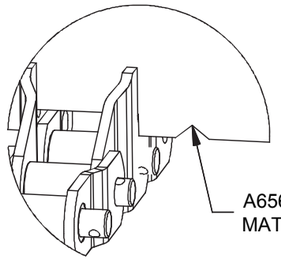
(XX) - ITEM

[XX] - HOSE NUMBER

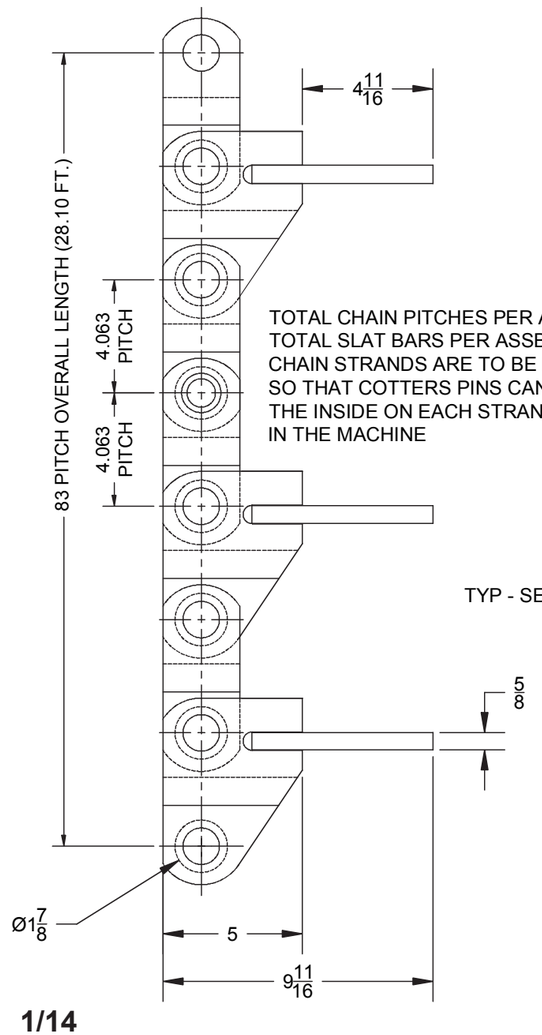
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CHAIN- 2500e C2 W/ WELDED SLATS
(250120-02)

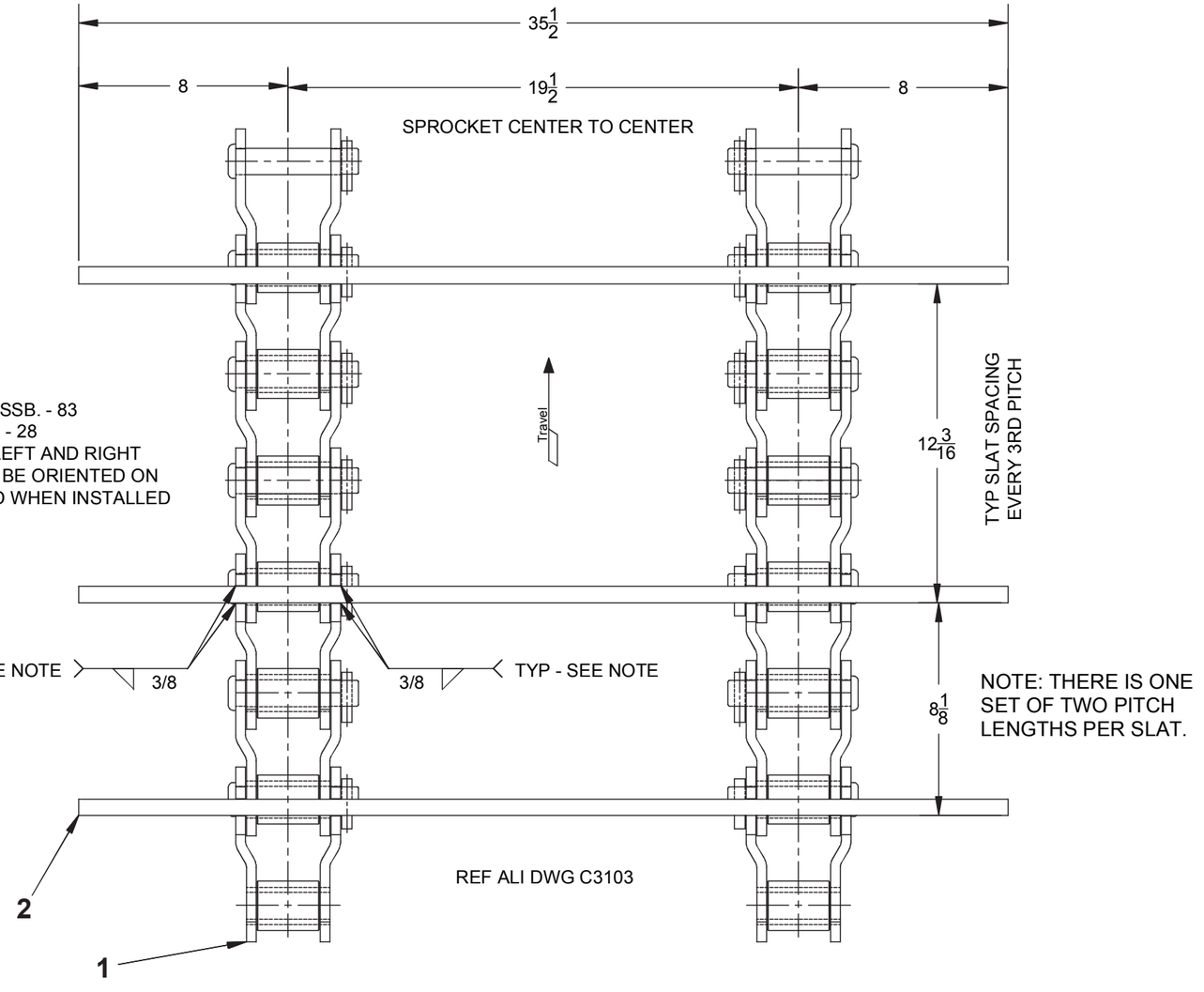
ITEM #	PART NO.	DESCRIPTION	QTY.
1	250121-03	CHAIN - 2500E C2 LESS SLATS	1
2	234064-01-C2	C2 DRAG SLAT ONLY T4	28



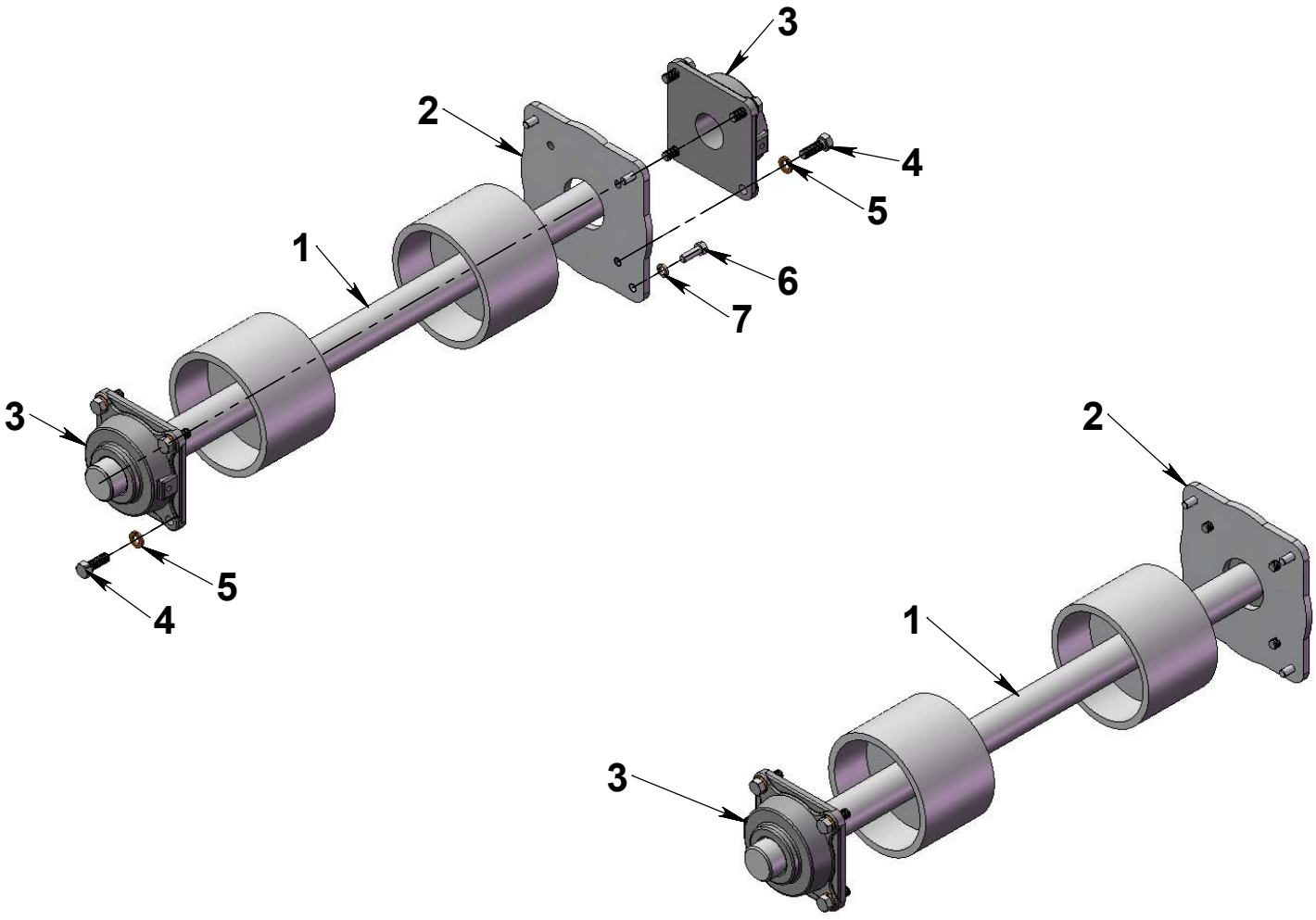
1. SLAT AND CHAIN TEMPERATURE MUST BE ABOVE 60°F BEFORE WELDING.
2. BEFORE, DURING AND AFTER WELDING, PROTECT CHAIN AND SLATS FROM DRAFTS FROM OPEN DOORS DURING COLD WEATHER.
3. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS NOT PRESENT:
   3.1. USE SuperArc L-59 WELD WIRE.
4. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS PRESENT:
   4.1. USE Lincolnweld LA-100 WELD WIRE.
5. DO NOT MIX SLAT MAT'LS ON A GIVEN CHAIN.



TOTAL CHAIN PITCHES PER ASSB. - 83
TOTAL SLAT BARS PER ASSB. - 28
CHAIN STRANDS ARE TO BE LEFT AND RIGHT SO THAT COTTERS PINS CAN BE ORIENTED ON THE INSIDE ON EACH STRAND WHEN INSTALLED IN THE MACHINE

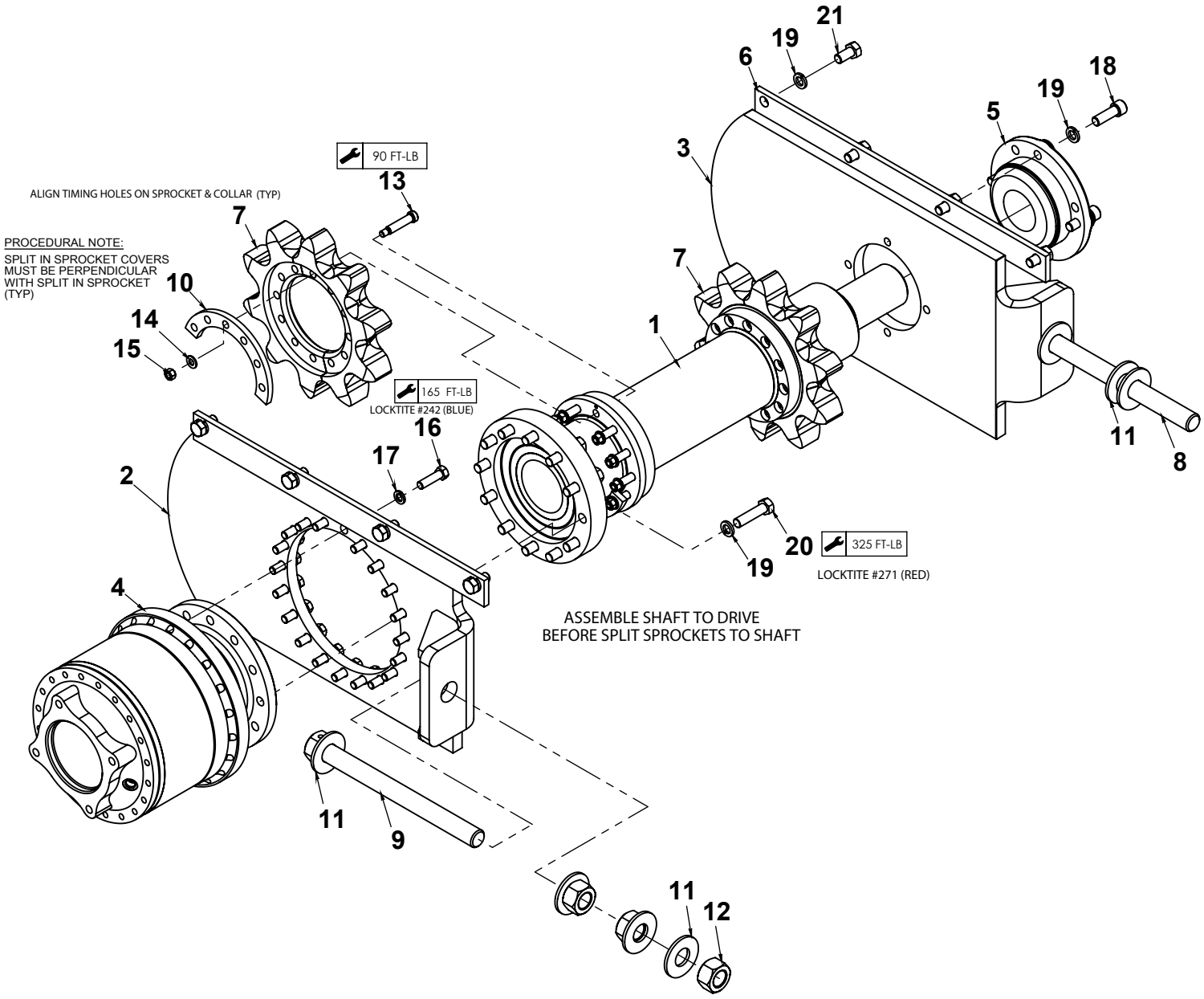


ASSEMBLY-C2 IDLERS
(235574-01)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	99363-01	WELDMENT-C2 IDLER SHAFT	2
2	99364-03	BEARING PLATE	2
3	88993-04	BEARING * 4 BOLT FLANGE	4
4	89143	BOLT * HEX 5/8"-11UNC X 1 3/4"	16
5	84717	WASHER * LOCK 5/8" SPRING STEEL	16
6	93144	BOLT * HEX 1/2"-13 X 1 1/2"	8
7	83317	WASHER * LOCK 1/2" SPRING STEEL	8

ASSEMBLY- C2 HEADSHAFT & TAKE-UP SB-2500e
(253164-01)

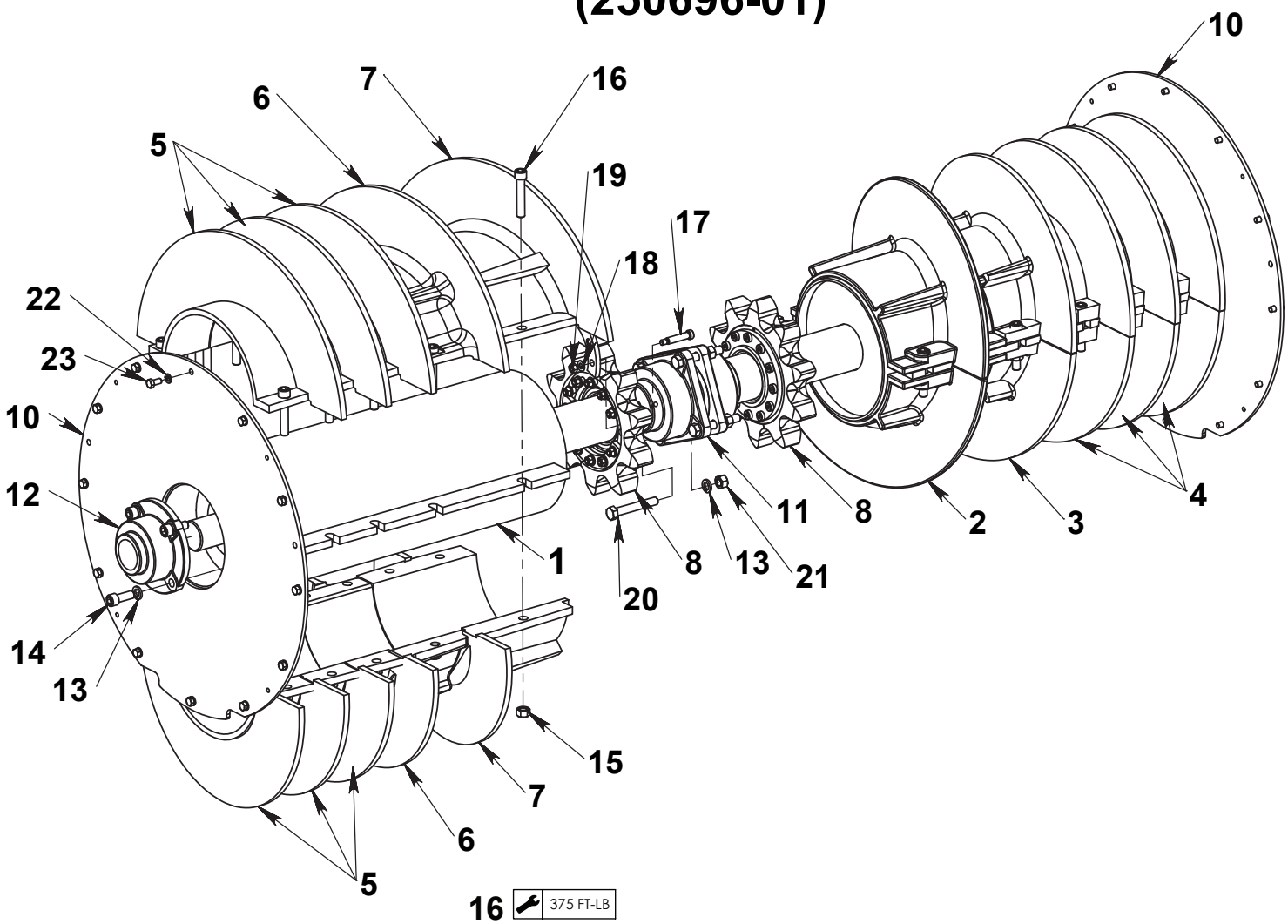


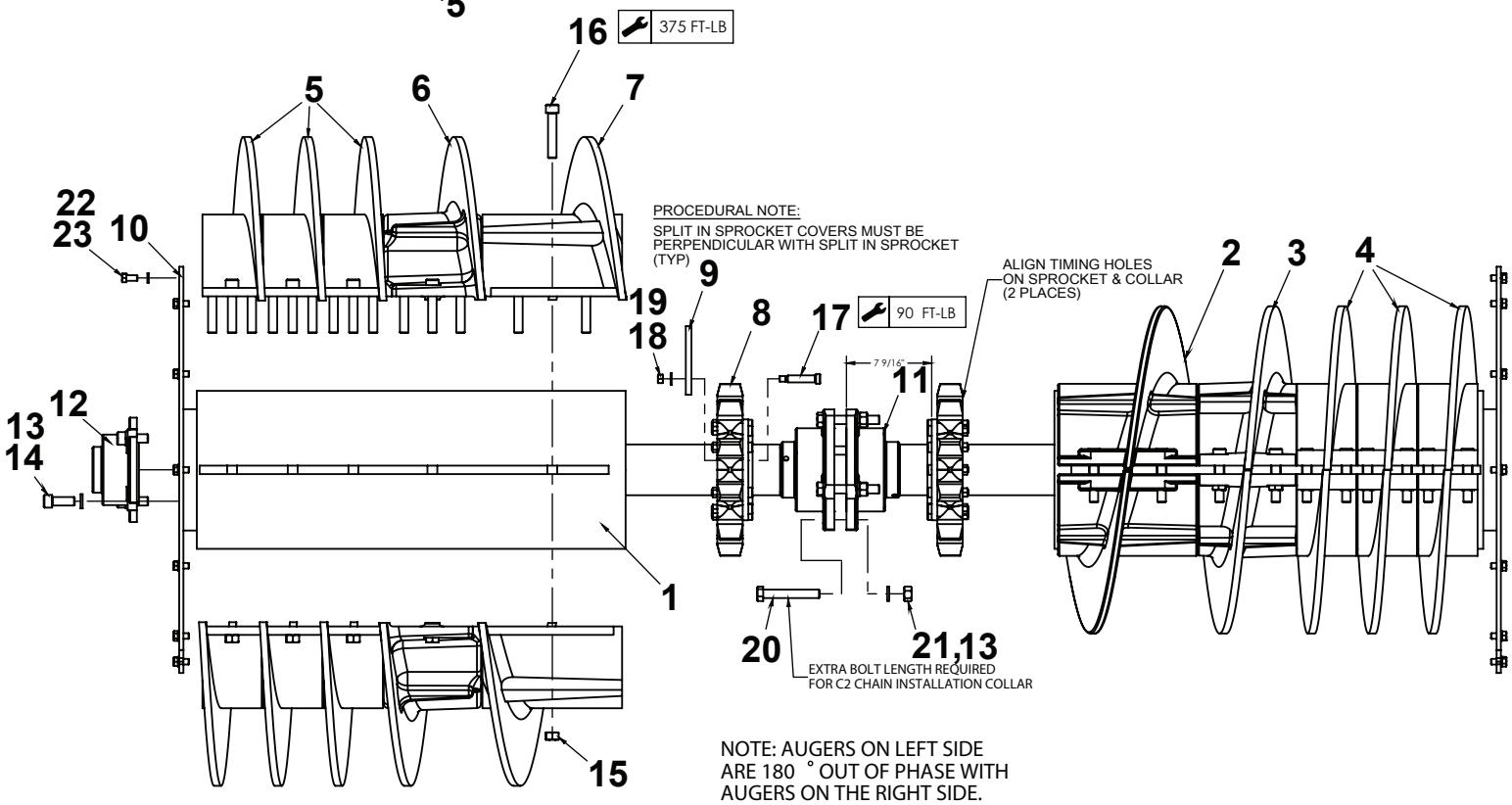
ASSEMBLY- C2 HEADSHAFT & TAKE-UP SB-2500e (253164-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	235586-01	WELDMENT-C2 HEADSHAFT,SB-2500E T4	1
2	235584-01	WELDMENT-C2 TAKEUP PLATE,LH	1
3	235585-01	WELDMENT-C2 TAKEUP PLATE,RH	1
4	203739-01	TRANS * GEARBOX C2 DRIVE	1
5	97350-04	BEARING * FLANGE	1
6	215750-03	DETAIL-UPPER KEEPER BAR	2
7	250532-03	SPROCKET - 10T FORGED	2
8	99060-04	ASSEMBLY - TAKE-UP SCREW	1
9	250323-03	ASSEMBLY-LH C2 TAKE-UP SCREW	1
10	139665-04	SPROCKET COVER PLATE	4
11	83032	WASHER * FLAT 1 1/2" N SERIES	8
12	250260-04	NUT * 1 1/2"-6 HEX GRADE 8 L.H.	3
13	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
14	10D63	WASHER ~ 1/2" HARD A325	24
15	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
16	93122	BOLT * HEX 5/8"-11 X 2 1/4"	20
17	84717	WASHER * LOCK 5/8" SPRING STEEL	20
18	204727-04	CAPSCREW * 3/4"-10 X 2 1/4 S.H.C.S.	4
19	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	24
20	122336	BOLT * HEX 3/4"-16 X 3" GD.8	12
21	95932	BOLT * HEX 3/4"-10 X 1 1/2"	8

SHOP NOTE: USE LOCTITE #242 (BLUE) ON ALL BEARING SET SCREWS.

ASSEMBLY-C2 FOOTSHAFT & AUGER (250696-01)





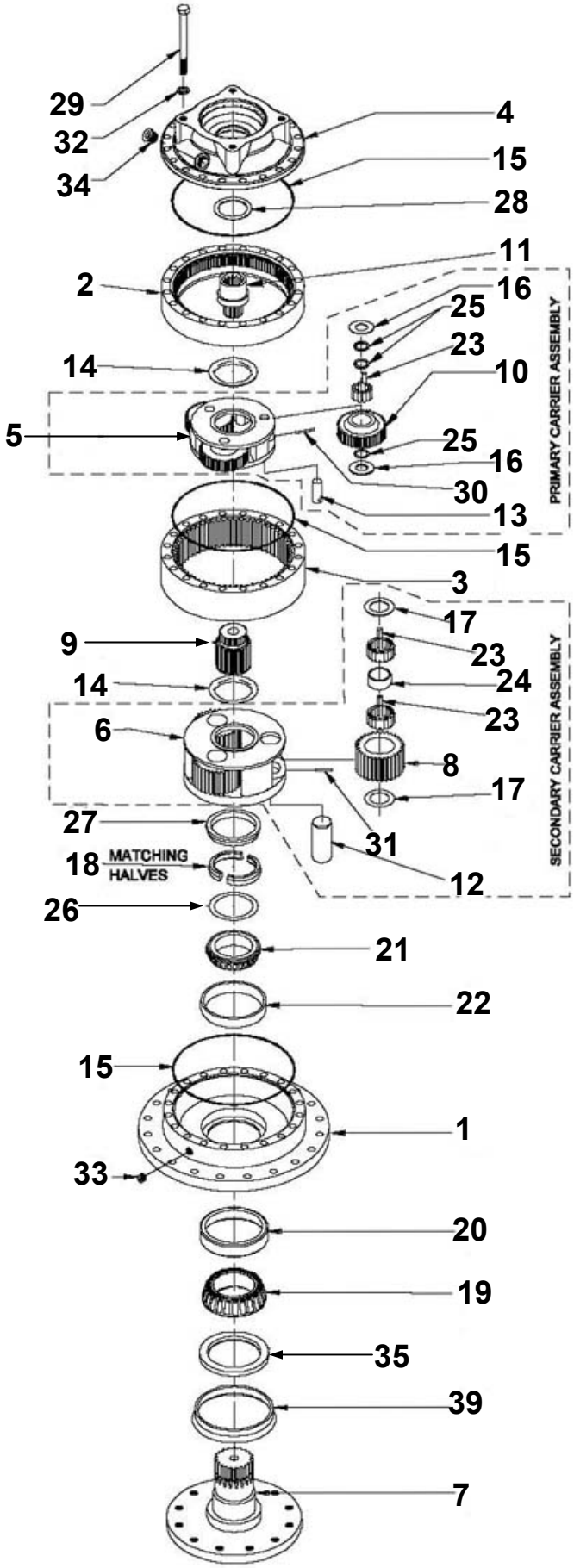
NOTE: AUGERS ON LEFT SIDE ARE 180 ° OUT OF PHASE WITH AUGERS ON THE RIGHT SIDE.

ROADTEC
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ASSEMBLY-C2 FOOTSHAFT & AUGER (250696-01)

ITEM #	PART #	DESCRIPTION	QTY
1	235448-01	WELDMENT-C2 AUGER SHAFT	2
2	95998A	FLIGHT * AB 12 1/2"L.H. PITCH (R.S)	2
3	96004A	FLIGHT * BB 8 3/4" L.H.PITCH (R.S)	2
4	96006A	FLIGHT * CB 5 3/8"L.H. PITCH (R.S)	6
5	96005-01A	FLIGHT * CA 5 3/8" R.H PITCH (L.S)	6
6	96003-01A	FLIGHT * BA 8 3/4" R.H.PITCH (L.S.)	2
7	95997-01A	FLIGHT * AA 12 1/2"R.H. PITCH (L.S)	2
8	250532-03	SPROCKET - 10T FORGED	2
9	139665-04	SPROCKET COVER PLATE	4
10	120988-01	WELDMENT-C2 BEARING RETAINER	2
11	29M97	BEARING * 3 1/2" PILOTED	2
12	29M98	BEARING, FLANGED 3" 4-BOLT	2
13	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	12
14	93212	SCREW * 3/4"-10 X 2" SOC.HD.	8
15	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	30
16	95834	SCREW * 3/4"-10 X 4" SOC.HD.	30
17	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
18	10D63	WASHER ~ 1/2" HARD A325	24
19	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
20	10084	BOLT * HEX 3/4"-10 X 5"LG.	4
21	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	4
22	83317	WASHER * LOCK 1/2" SPRING STEEL	24
23	83754	BOLT * HEX 1/2"-13 X 1"	24

C-2 DRIVE GEARBOX
(203739-01)



ROADTEC
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C-2 DRIVE GEARBOX
(203739-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	141780-01-C14	BASE	1
2	141780-01-C15	RING GEAR - PRIMARY	1
3	141780-01-C16	RING GEAR - SECONDARY	1
4	141780-01-C17	COVER	1
5	203739-01-C7	CARRIER - PRIMARY	1
6	203739-01-C8	CARRIER - SECONDARY	1
7	141780-01-C19	OUTPUT SHAFT	1
8	203739-01-C2	PLANET GEAR - SECONDARY	3
9	141780-01-C21	SUN GEAR - SECONDARY	1
10	203739-01-04	PLANET GEAR - PRIMARY	3
11	141780-01-C5	INPUT GEAR	1
12	203739-01-C6	PLANET SHAFT - SECONDARY	3
13	203739-01-C9	PLANET SHAFT - PRIMARY	3
14	141780-01-C2	THRUST WASHER - CARRIER	2
15	137209-04-C1	SEAL (O-RING)	3
16	203739-01-C10	THRUST WASHER - PRIMARY PLANET	6
17	203739-01-C5	THRUST WASHER - SECONDARY PLANET	6
18	141780-01-C31	SPLIT RING - (MATCHING HALVES) LOAD - N - LOCK	1
19	137209-04-C6	BEARING CONE - OUTER	1
20	137209-04-C7	BEARING CUP - OUTER	1
21	137209-04-C8	BEARING CONE - INNER	1
22	137209-04-C9	BEARING CUP - INNER	1
23	203739-01-C11	BEARING - SEC. PLANET GEAR	3
24	203739-01-C3	BEARING - SEC. PLANET GEAR	3
25	203739-01-C12	BEARING - PRI. PLANET GEAR	3
26	141780-01-C4	SHIM - SHAFT ADJUSTMENT	
27	141780-01-C25	LOCK RING - LOAD - N - LOCK	1
28	141780-01-C1	THRUST RACE (TRD-4052)	1
29	141780-01-C26	HEX HEAD CAPSCREW (5/8-11 X 7) GR8	20
30	141780-01-C27	ROLL PIN (3/16 X 1)	3
31	141780-01-C28	ROLL PIN (3/16 X 1 1/4)	3
32	141780-01-C29	LOCK WASHER - (5/8)	20
33	137208-04-C33	PIPE PLUG (1/2 NPT MAGNETIC) - BASE	1
34	141780-01-C30	PLUG - COVER	1
35	203739-01-C1	SHAFT SEAL	1
36			
37			
38			
39	137209-04-C3	SEAL - RUBBER / FACE 120/250 SPINDLE	1
40			
41			
42			
43			
44			
45			

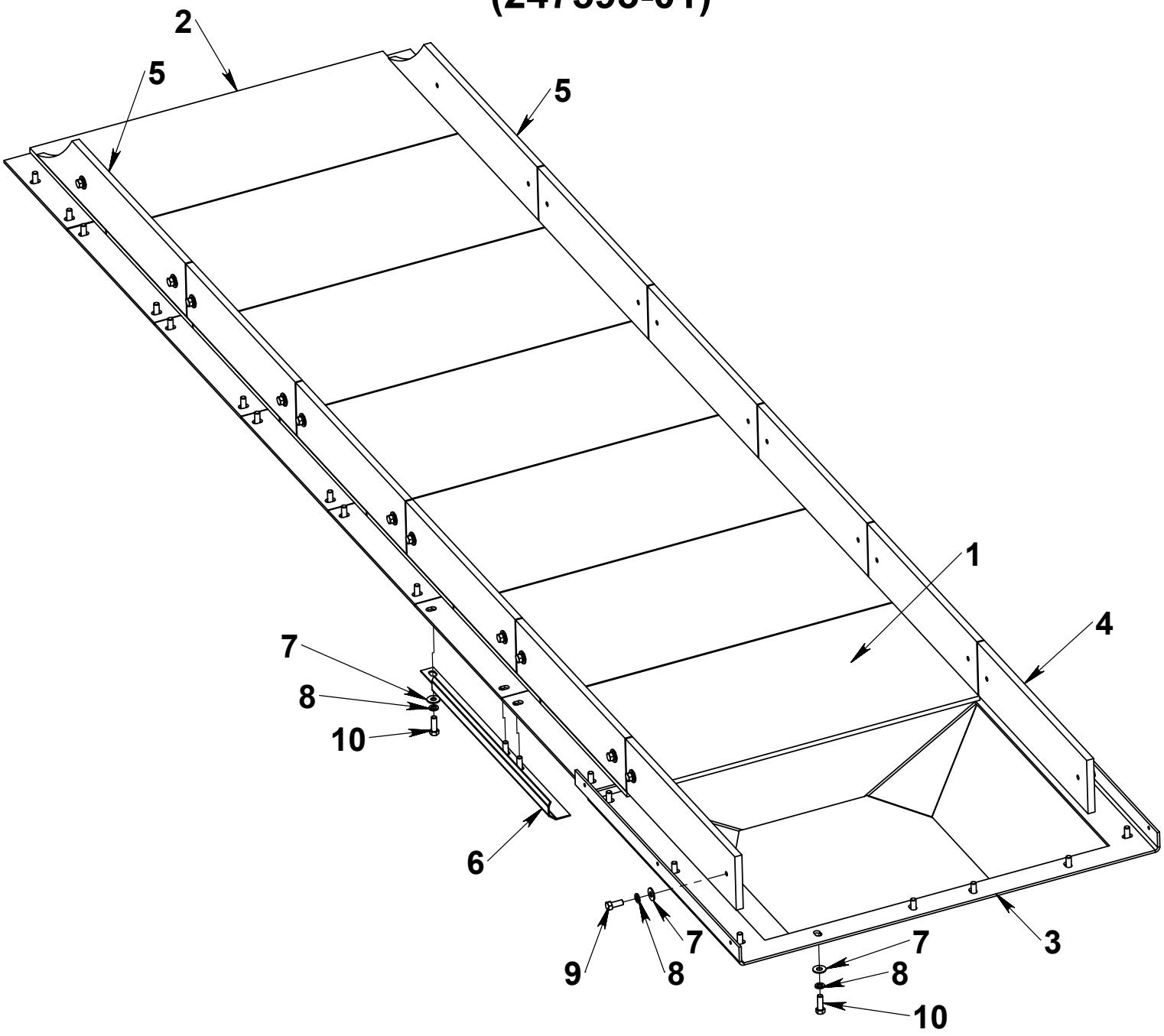
ROADTEC an Astec Industries Company

C-2 DRIVE MOTOR
(149224-04)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	91681-04-C5	SCREW - SOC. HD.	3
2	91681-04-C10	RETAINER PLATE	1
3	91681-04-C11	CARRIER - SEAL	1
4	91681-04-C3	LIP SEAL	1
5	91681-04-C4	O-RING	1
6	91681-04-C12	PLUG W/ O-RING	2
7	91681-04-C13	CHARGE RELIEF VALVE	1
8	149224-04-C5	FLUSHING VALVE	1
9	91681-04-C14	SHUTTLE VALVE SPOOL	1
10		SPRING	1
11	91681-04-C15	SPRING GUIDE	1
12		O-RING	1
13	91681-04-C16	PLUG W/ O-RING	2
14			
15		SPLIT FLANGE	3
16	91681-04-C17	SCREW	12
17			
18	91681-04-C19	PLUG W/ O-RING	3
19		CHARGE PUMP SHAFT	1
20		KEY	1
21	91681-04-C20	SPRING - GUIDE	1
22		RETAINING PLATE	1
23	91681-04-C5	SCREW	6
24		COVER ASSY.	1
25	91681-04-C9	JOURNAL BEARING ASSY.	1
26	91681-04-C7	SHAFT	1
27	91681-04-C4	O-RING	1
28		PLUG	1
29		REDUCER FITTING	1
30		PLUG W/ O-RING	
31		ALIGNMENT PIN	1
32		KIT - CHARGE PUMP	1
33	91681-04-C1	GASKET - END PLATE	1
34	91681-04-C2	END PLATE	
35			

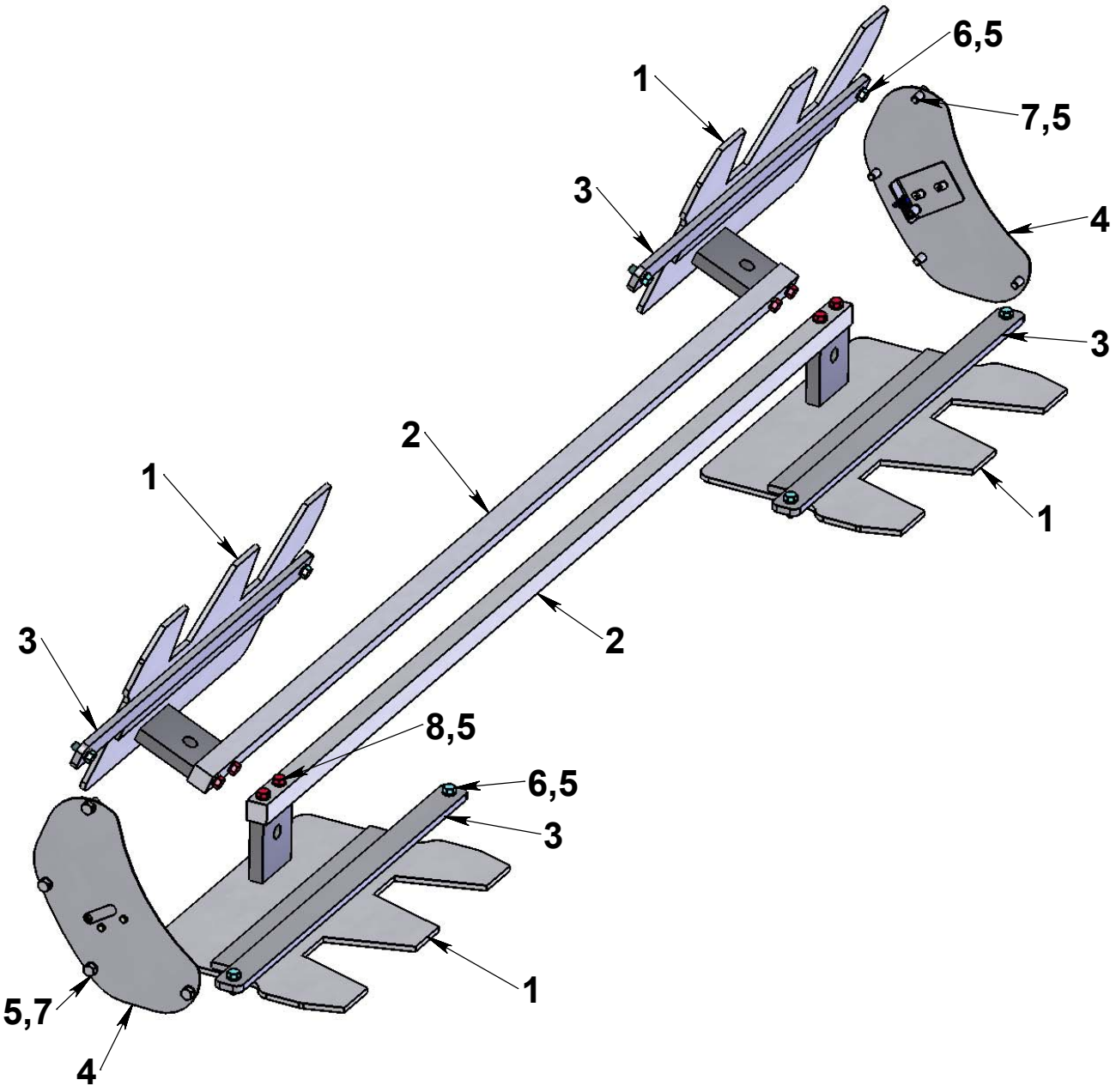
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ASSEMBLY-C2 CLAD WEAR PLATES (247593-01)



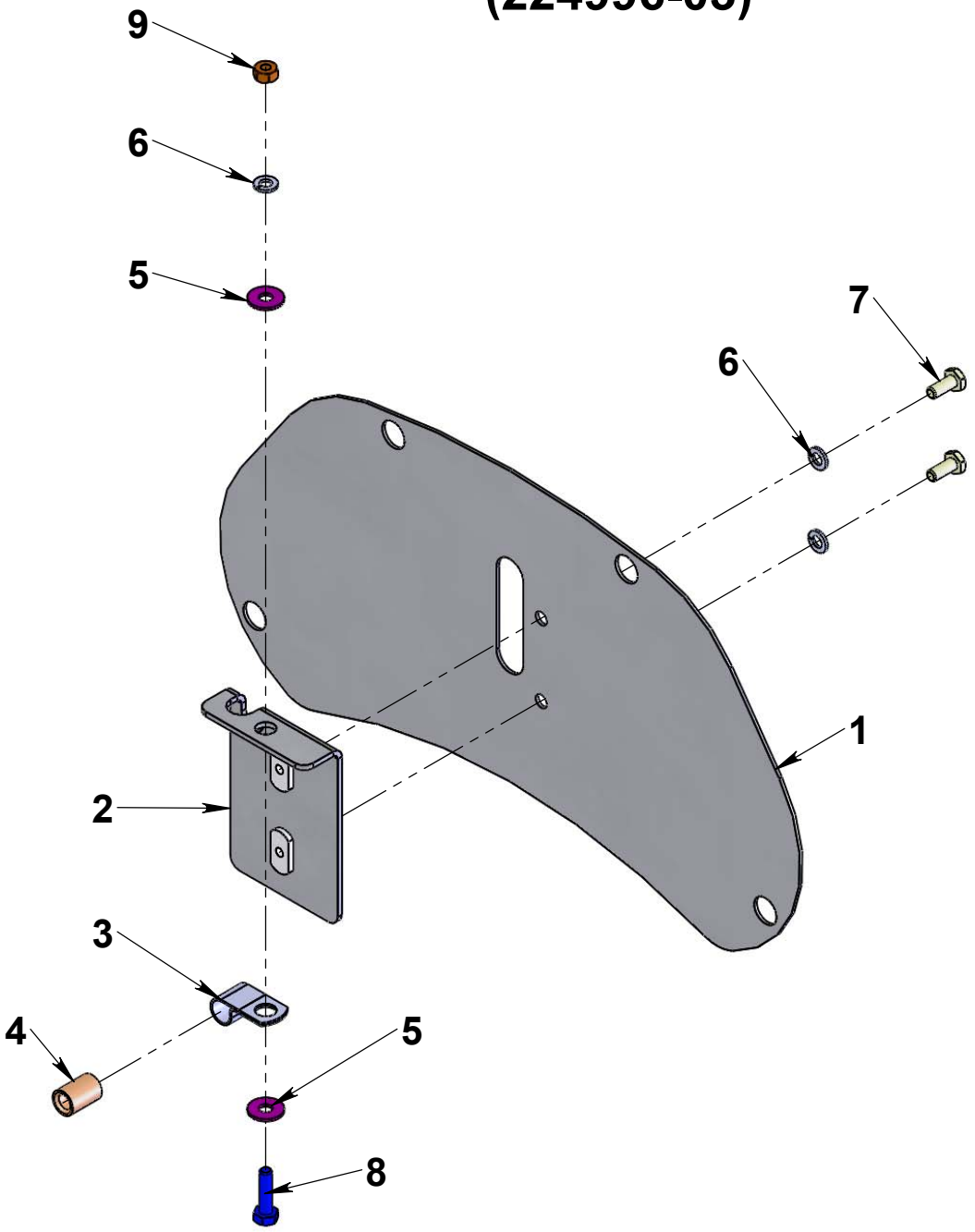
ITEM #	PART #	DESCRIPTION	QTY
1	235445-01	WELDMENT-C2 WEAR PLATE	6
2	247815-01	WELDMENT-C2 FIRST WEAR PLATE	1
3	213515-01	C-2 DISCARGE CHUTE WELDMENT	1
4	149877-03	SIDE LINER FOR C-1/C-2	10
5	247816-03	DETAIL-C2 SIDE PLATE	2
6	235555-03	DETAIL-HOSE PROTECTOR PLATE-2500E	1
7	83781-04	WASHER * FLAT 1/2" STEEL	62
8	83317	WASHER * LOCK 1/2" SPRING STEEL	62
9	86164	BOLT * HEX 1/2"-13 X 1 1/4"	24
10	93144	BOLT * HEX 1/2"-13 X 1 1/2"	38

ASSEMBLY-FLOWGATE,SB-2500E T4
(235462-01)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	235463-01	LEFT REAR FLOWGATE WELDMENT	4
2	235464-03	DETAIL-FLOWGATE TIE BAR,SB-2500E T4	2
3	200145-03	DETAIL-FLOWGATE RETAINER-2500C	4
4	224996-03	ASSY-FLOWGATE ACCESS COVER	2
5	83317	WASHER * LOCK 1/2" SPRING STEEL	24
6	86164	BOLT * HEX 1/2"-13 X 1 1/4"	8
7	83754	BOLT * HEX 1/2"-13 X 1"	8
8	93121	BOLT * HEX 1/2"-13 X 2 1/2"	8

ASSY-FLOWGATE ACCESS COVER (224996-03)



ITEM #	PART #	DESCRIPTION	QTY
1	224999-03	DETAIL-FLOWGATE ACCESS COVER	1
2	225000-03	DETAIL - GREASE LINE BRACKET	1
3	130771	CLAMP *1/2" CUSHION-TUBE(3/8"BOLT)	1
4	92792	COUPLING * PIPE 1/8" NPT	1
5	84444	WASHER * FLAT 1/4" STEEL	2
6	83065	WASHER ~ LOCK 1/4" SPRING STEEL	3
7	86143-04	BOLT * HEX 1/4"-20 X 5/8"	2
8	89773	BOLT * HEX 1/4"-20 X 1"	1
9	89772	NUT * 1/4"-20 HEX GRADE 8	1

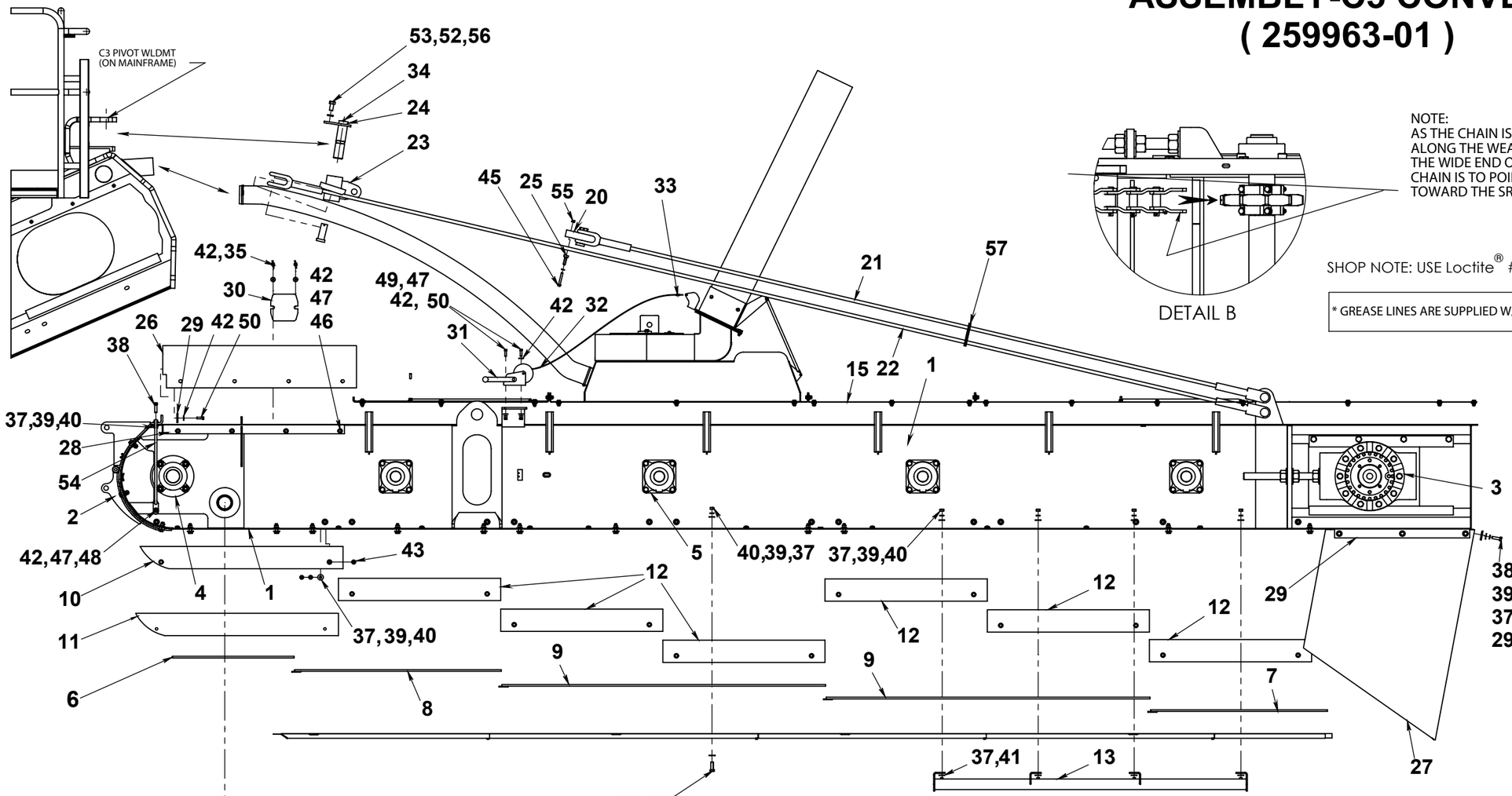
ASSY- C3 CONVEYOR , SB-2500e
(259963-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	249052-01	WLDMT - C3 CONVEYOR	1
2	243325-01	ASSY - C3 CLEANOUT DOOR	1
3	250328-01	ASSY - C3 HEAD SHAFT & TAKE UP	1
4	234462-01	ASSY - C3 FOOTSHAFT	1
5	234452-01	ASSY - C3 IDLER	4
6	234455-03	DETAIL - C3 BOTTOM LINER CLAD (27")	1
7	234456-03	WLDMT - C3 BOTTOM LINER CLAD (39")	1
8	234457-03	WLDMT - C3 BOTTOM LINER CLAD (46")	1
9	234458-03	WLDMT - BOTTOM LINER (72") CLAD	2
10	148642-03R	FORMED RIGHT C3 FRONT SIDE LINER	1
11	148642-03L	FORMED LEFT C3 FRONT SIDE LINER	1
12	148644-03	C3 SIDE LINER	12
13	234451-01	ASSY - INSULATION PANEL & TRUCK RAIL	1
14	250122-02	CHAIN - C3 T4	1
15	234450-01	ASSY - C3 TOP COVER	1
16	259908-01	WLDMT - C3 PIVOT FOR BUSHING	1
17	121890-02	DETAIL - C3 LOCK IN PLATE	2
18	259764-03	DETAIL - C3 PIVOT COVER PLATE	1
19	122102-03	WLDMT - CONVEYOR SHIPPING PIN	1
20	204755-03	SPREADER BAR BLANK	1
21	213523-04	CABLE - C3 LIFT 155-3/4" LG	2
22	204779-04	CABLE - C3 SERVICE CABLE X 226"	2
23	200188-03	WLDMT - C3 LIFT CYLINDER LINK	1
24	200527-03	WLDMT - C3 CONVEYOR LINK PIN	1
25	90087-04	CHAIN - LOOP / 1.75" OPENING DEPTH	2
26	125193-01	C3 CONVEYOR FLASHING RUBBER	1
27	218472-01	RUBBER FLASING FOR C3 DISCHARGE	1
28	122124-04	DETAIL - SIDE CLAMP	2
29	218473-04	DETAIL - CLAMP BAR	4
30	129384-03	DETAIL - C2 INSPECTION PLATE	1
31	142469-04	WINCH - 600# 3.1:1 RATIO	1
32	234443-01-1	CABLE - 1/8" AIRCRAFT X 90" LG	1
33	142600-04	CLAMP - 1/8" ROPE CRIMP	2
34	90565	GREASE FITTINGS - 1/4" NPT ST	1
35	129097	WING NUT - 3/8-16	2
36	131017	GREASE FITTING - 1/4-28 45 DEG.	2
37	83781-04	FLAT WASHER - 3/8" STEEL	115
38	89142	HEX BOLT - 1/2-13 UNC X 1 3/4"	41
39	83317	LOCK WASHER - 1/2" SPRING STEEL	77
40	83288	HEX NUT - 1/2-13 GR8	68
41	84674	HEX BOLT - 1/2-13 X 2"	8
42	83757	FLAT WASHER - 3/8" STEEL	21
43	26C72	CSK BOLT - 1/2-13 X 1 1/2"	28
44	84332	HEX BOLT - 3/8-16 X 1"	3
45	95541	HEX BOLT - 3/8-16 X 2 1/4"	4

ASSY- C3 CONVEYOR, SB-2500e (259963-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
46	83924	HEX BOLT - 3/8-16 X 1 1/2"	8
47	83056	LOCK WASHER - 3/8" SPRING STEEL	15
48	86127-04	HEX BOLT - 3/8-16 X 3/4"	2
49	83055	HEX NUT - 3/8-16 GR8	2
50	96476	HEX BOLT - 3/8-16 X 1 1/4"	5
51	93723	HEX BOLT - 3/4-10 X 2 1/2"	8
52	83752-04	LOCK WASHER - 3/4" SPRING STEEL	10
53	95932	HEX BOLT - 3/4-10 X 1 1/2"	2
54	242137-03	WLDMT - C3 HYDRAULIC HOSE SPACER	2
55	92235	LOCK NUT - 3/8-16 GR8	4
56	95937	FLAT WASHER - 3/4" HARD	2
57	257241-04	KIT - C3 CABLE RETAINERS	1
58	138885-03-C2	KIT - KEEPER PIN 1 1/4" LG	2
59	259909-02	BUSHING - C3 PIVOT W/O SPACER	2
60			

ASSEMBLY-C3 CONVEYOR
(259963-01)



DETAIL B

NOTE:
AS THE CHAIN IS PULLED ALONG THE WEAR PLATES, THE WIDE END OF THE CHAIN IS TO POINT TOWARD THE SROCKET.

SHOP NOTE: USE Loctite® #242 (BLUE) ON ALL BEARING SET SCREWS.

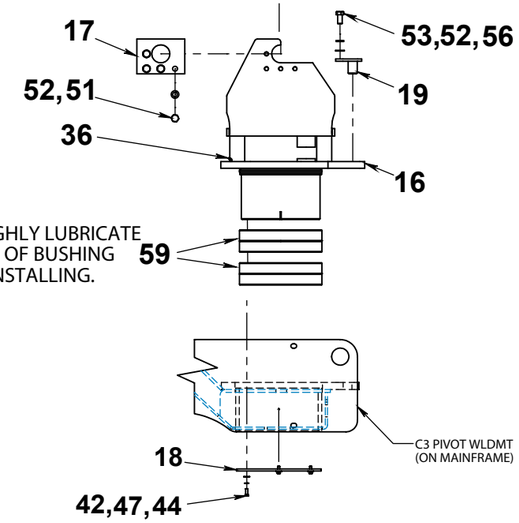
* GREASE LINES ARE SUPPLIED W/HOSE KIT

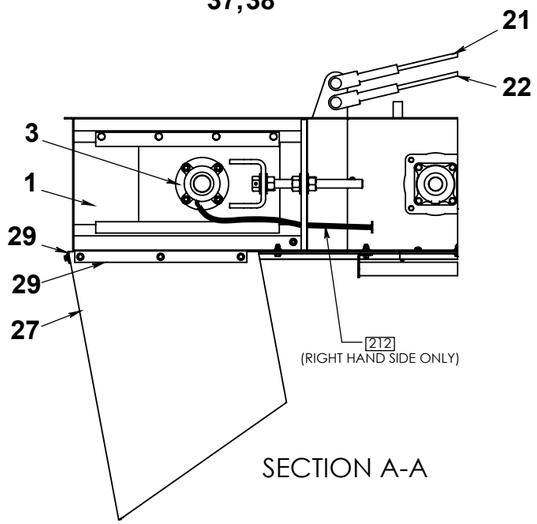
NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

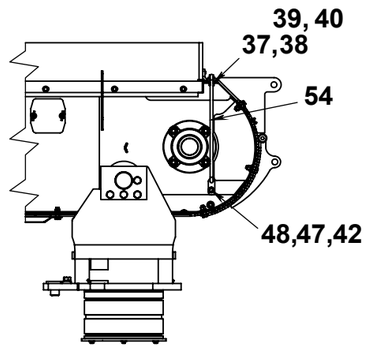
[XX] - HOSE NUMBER

HYDARULIC CYLINDERS & PINS ARE FURNISHED IN THE HYDRAULIC ASSEMBLY



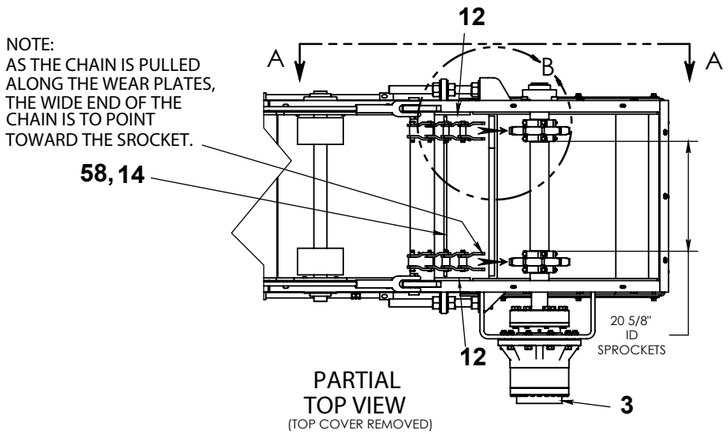


SECTION A-A



PARTIAL VIEW
RH SIDE

NOTE:
AS THE CHAIN IS PULLED ALONG THE WEAR PLATES, THE WIDE END OF THE CHAIN IS TO POINT TOWARD THE SROCKET.

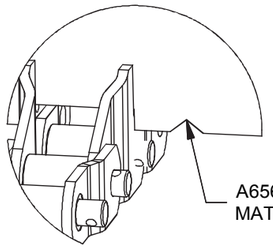


PARTIAL
TOP VIEW
(TOP COVER REMOVED)

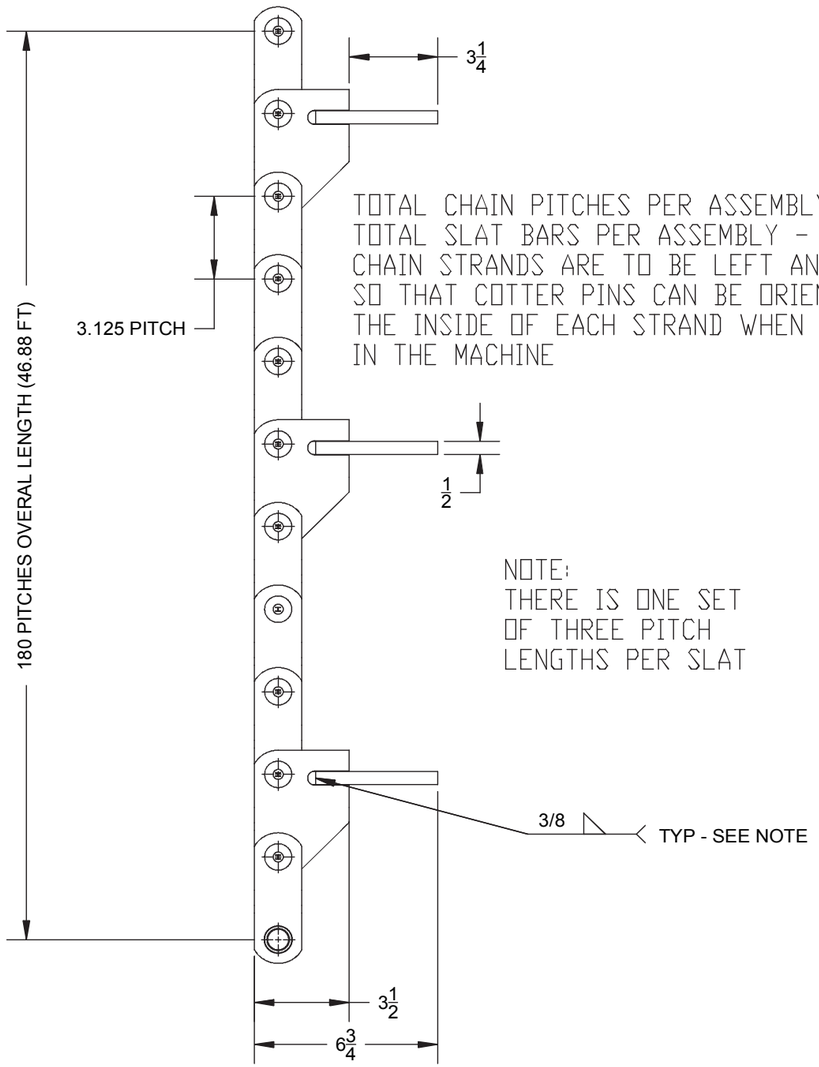
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CHAIN- 2500e C3 W/ WELDED SLATS
(250122-02)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	250121-03	CHAIN - 2500E C2 LESS SLATS	1
2	234064-01-C2	C2 DRAG SLAT ONLY T4	28

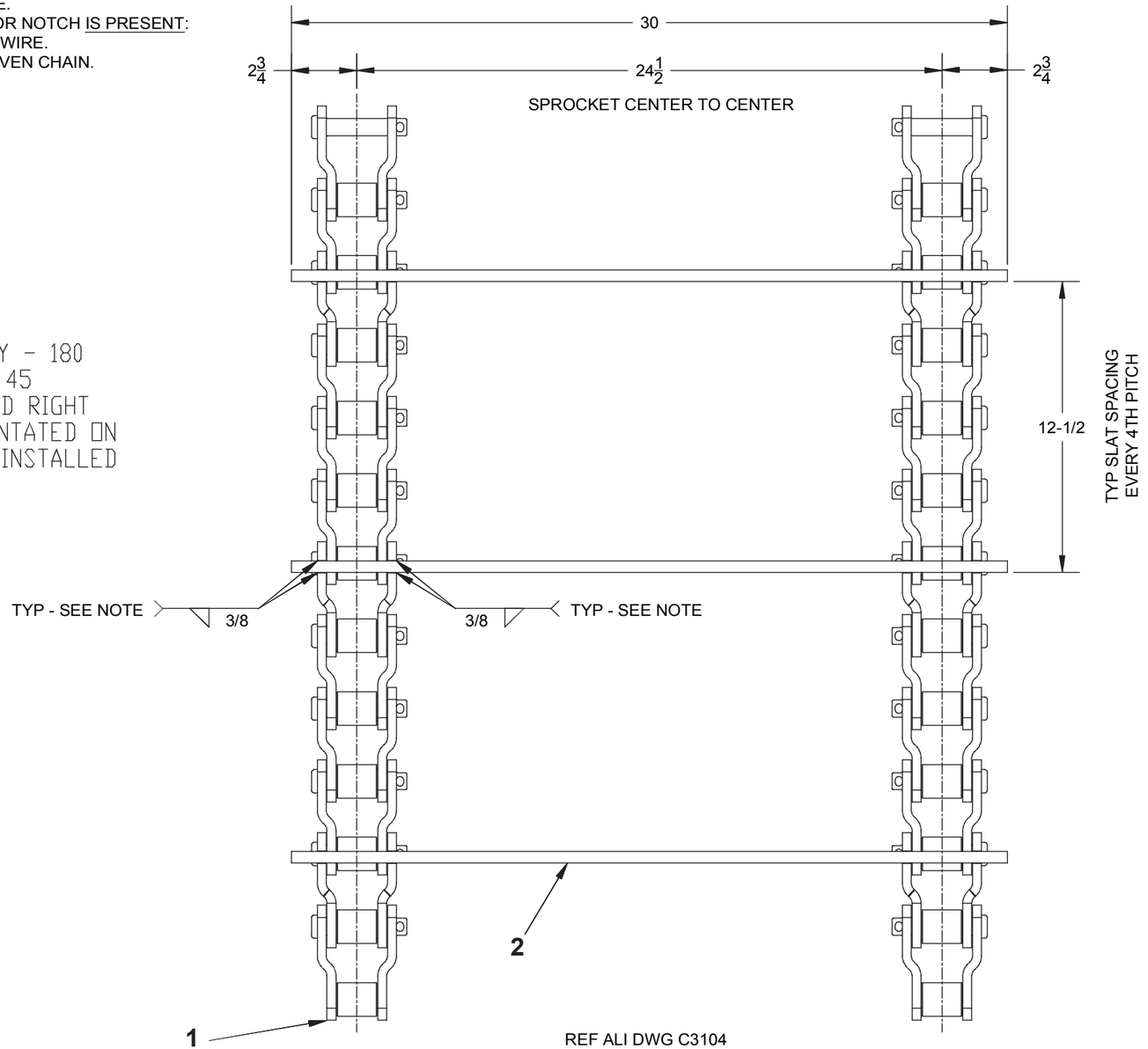


1. SLAT AND CHAIN TEMPERATURE MUST BE ABOVE 60°F BEFORE WELDING.
2. BEFORE, DURING AND AFTER WELDING, PROTECT CHAIN AND SLATS FROM DRAFTS FROM OPEN DOORS DURING COLD WEATHER.
3. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS NOT PRESENT:
   3.1. USE SuperArc L-59 WELD WIRE.
4. IF A656 GRADE 80 MAT'L INDICATOR NOTCH IS PRESENT:
   4.1. USE Lincolnweld LA-100 WELD WIRE.
5. DO NOT MIX SLAT MAT'LS ON A GIVEN CHAIN.



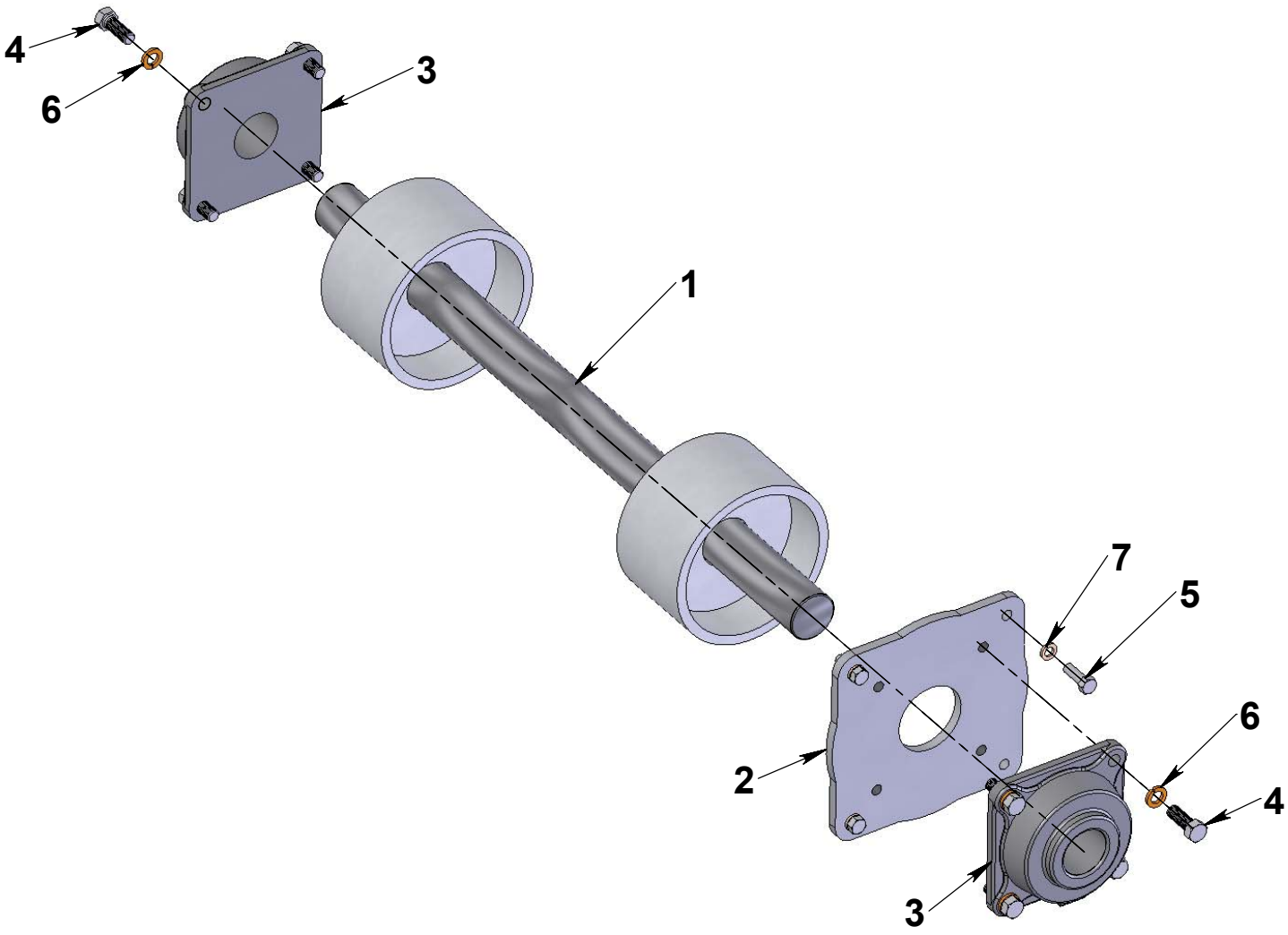
TOTAL CHAIN PITCHES PER ASSEMBLY - 180
TOTAL SLAT BARS PER ASSEMBLY - 45
CHAIN STRANDS ARE TO BE LEFT AND RIGHT SO THAT COTTER PINS CAN BE ORIENTATED ON THE INSIDE OF EACH STRAND WHEN INSTALLED IN THE MACHINE

NOTE:
THERE IS ONE SET OF THREE PITCH LENGTHS PER SLAT



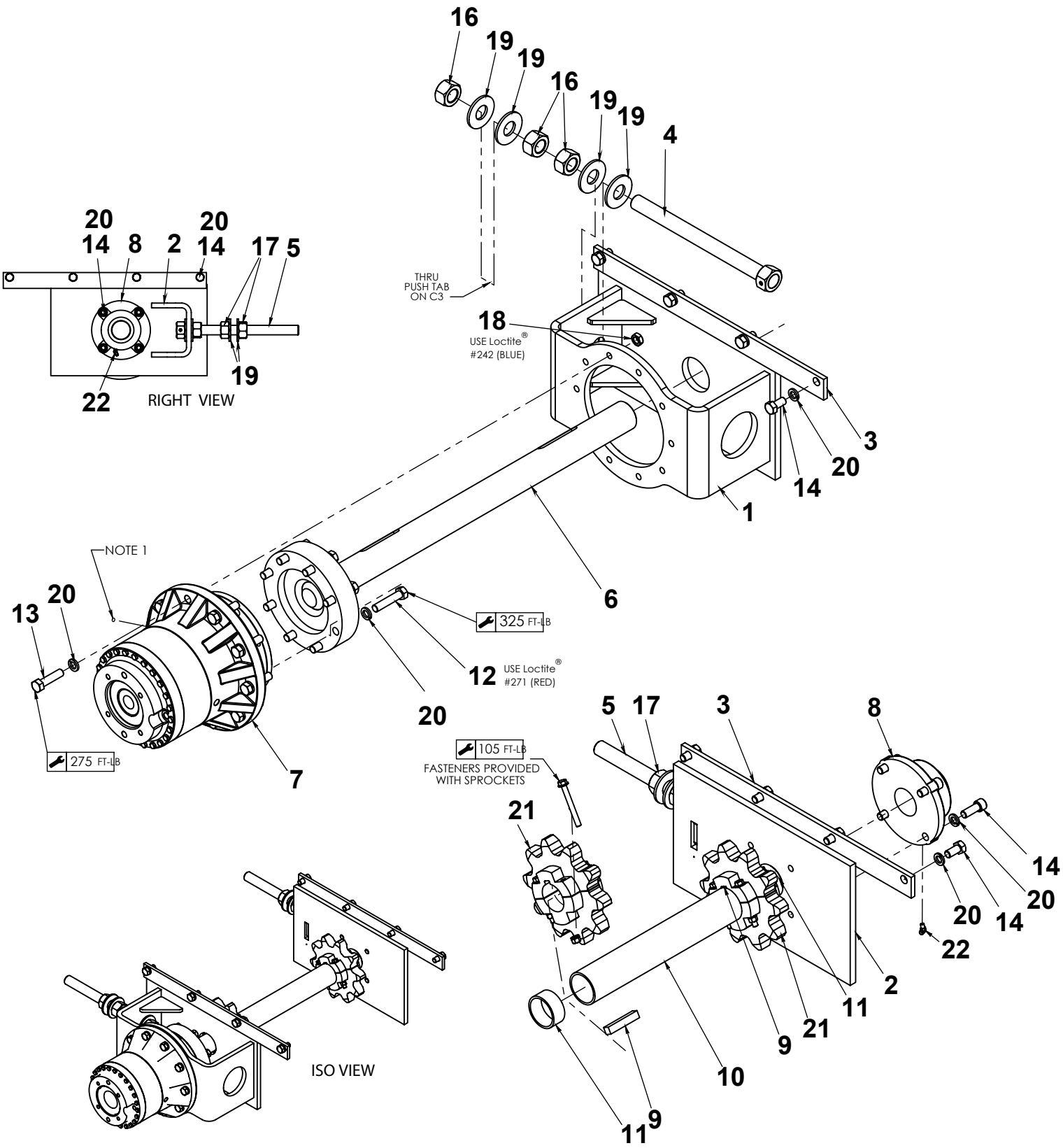
ROADTEC an Astec Industries Company

ASSEMBLY-C3 IDLER
(234452-01)



ITEM #	PART #	DESCRIPTION	QTY
1	146687-01	WELDMENT-C3 IDLER-SB-1500B	1
2	99364-03	BEARING PLATE	1
3	88993-04	BEARING * 4 BOLT FLANGE	2
4	89143	BOLT * HEX 5/8"-11UNC X 1 3/4"	8
5	93144	BOLT * HEX 1/2"-13 X 1 1/2"	4
6	84717	WASHER * LOCK 5/8" SPRING STEEL	8
7	83317	WASHER * LOCK 1/2" SPRING STEEL	4

ASSY- C3 HEADSHAFT & TAKE-UP
(250328-01)



PROCEDURAL NOTE 1:

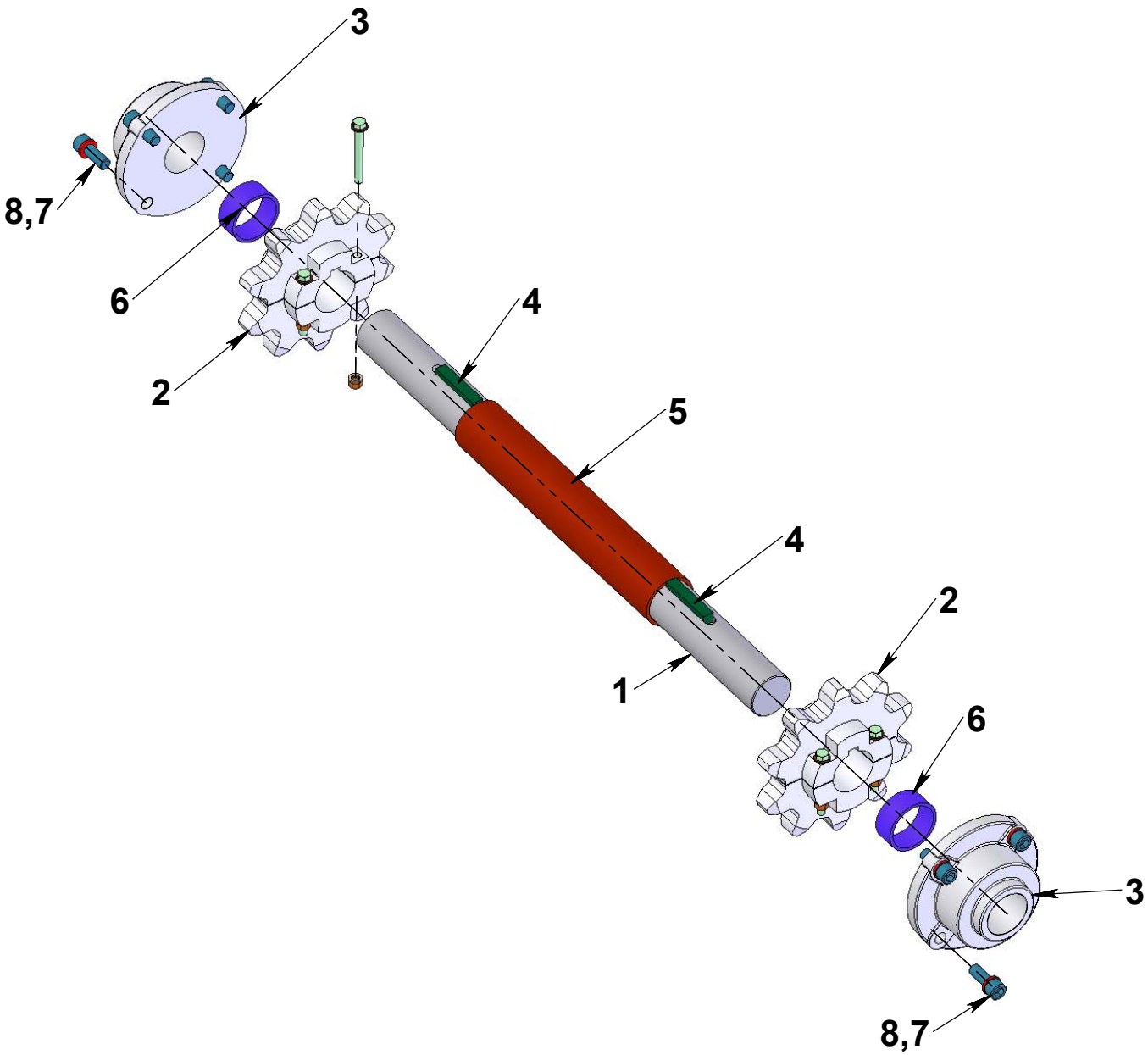
PART# 29E38 REMOVE THE PLUG ON THE TRANSMISSION SEAL, REPLACE WITH GREASE NIPPLE ADD 3 SHOTS OF GREASE. REMOVE GREASE NIPPLE AND REPLACE WITH ORIGINAL PLUG.

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ASSY- C3 HEADSHAFT & TAKE-UP
(250328-01)

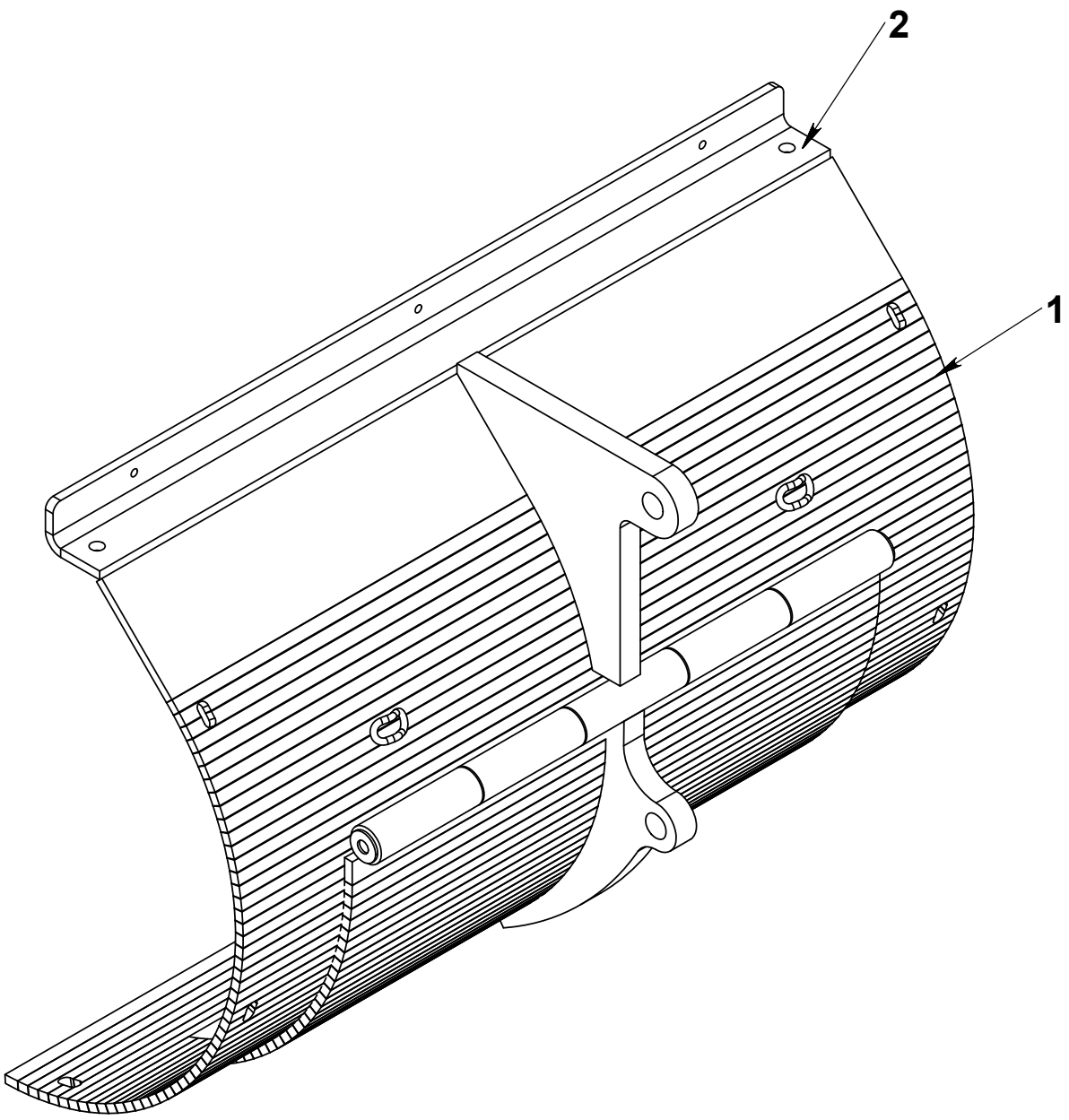
ITEM #	PART #	DESCRIPTION	QTY.
1	234659-01	WELDMENT-C3 TAKE-UP, LT DRIVE MOUNT	1
2	234660-01	WELDMENT-C3 TAKE-UP, RT BRNG MOUNT	1
3	215750-03	DETAIL-UPPER KEEPER BAR	2
4	250327-03	ASSEMBLY-LH C3 TAKE-UP SCREW	1
5	235222-04	ASSEMBLY-TAKE-UP SCREW	1
6	99779-01	WELDMENT-C3 HEAD SHAFT & MACH'G	1
7	29E38	PLANETARY SPEED REDUCER	1
8	29G14	BEARING * FLANGED BLOCK 2000 SERIES	1
9	123168-01-48	KEYSTOCK, 3/4", 4" LG, CD-1018	2
10	234460-01-16	PIPE * 3" SCH.40, 20 7/16" LG, A53	1
11	234460-01-17	PIPE * 3" SCH.40, 1 1/2" LG, A53	2
12	133348	BOLT * HEX 3/4-16 X 3 1/2 GD.8	8
13	89151	BOLT * HEX 3/4"-10 X 3"	10
14	93212	SCREW * 3/4"-10 X 2" SOC.HD.	4
15	95932	BOLT * HEX 3/4"-10 X 1 1/2"	8
16	250260-04	NUT * 1 1/2"-6 HEX GRADE 8 L.H.	3
17	83031	NUT * 1 1/2"-6 HEX GRADE 8	3
18	95938	NUT * JAM 3/4"-10 UNC GRADE 8	10
19	83032	WASHER * FLAT 1 1/2" N SERIES	8
20	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	30
21	235350-03	SPROCKET * C3 SB-2500E	2
22	99509	FIT * 4 JIC M X 1/8" NPT M 45 DEG	1

ASSEMBLY-C3 FOOT SHAFT
(234462-01)



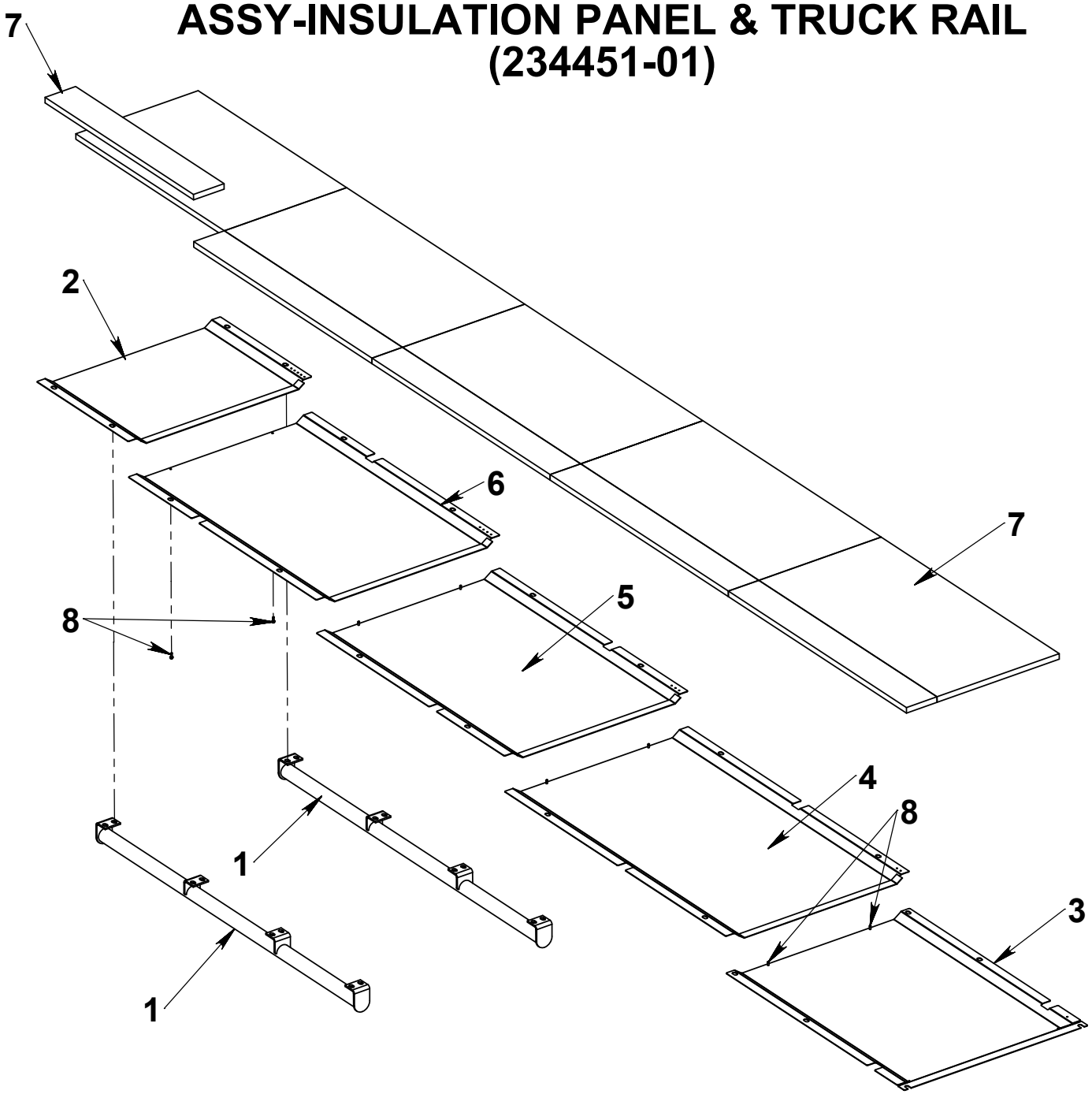
ITEM #	PART #	DESCRIPTION	QTY
1	234463-03	DETAIL-C3 TAIL SHAFT	1
2	235350-03	SPROCKET * C3 SB-2500E	2
3	29G14	BEARING * FLANGED BLOCK 2000 SERIES	2
4	123168-01-48	KEYSTOCK, 3/4", 4" LG, CD-1018	2
5	234460-01-16	PIPE * 3" SCH.40, 20 7/16" LG, A53	1
6	234460-01-17	PIPE * 3" SCH.40, 1 1/2" LG, A53	2
7	93212	SCREW * 3/4"-10 X 2" SOC.HD.	8
8	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	8

ASSEMBLY-C3 CLEANOUT DOOR (243325-01)



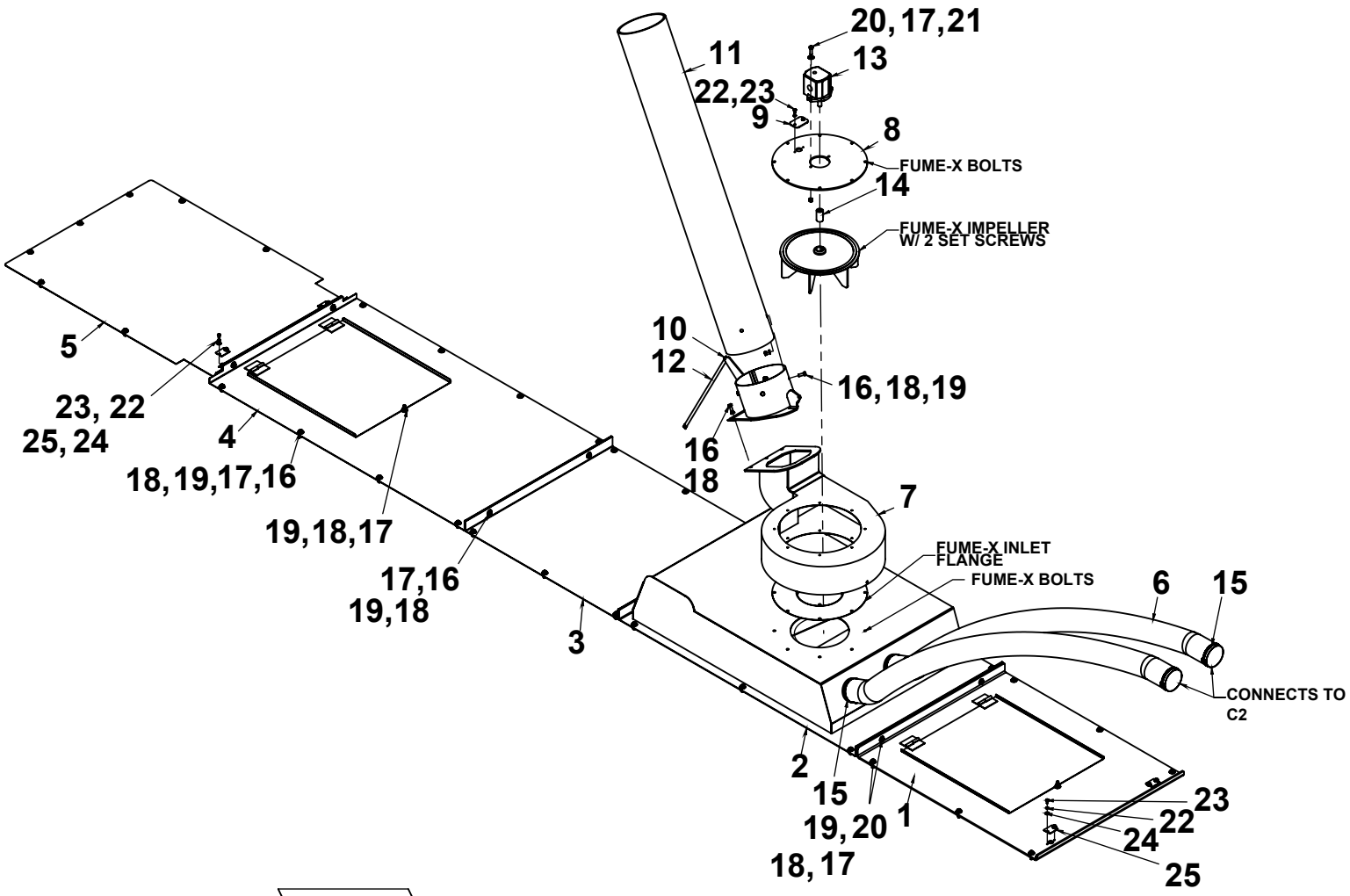
ITEM #	PART #	DESCRIPTION	QTY
1	242136-01	WELDMENT-C3 CLEAN OUT DOOR	1
2	243269-03	DETAIL-CLAMP ANGLE BAR	1

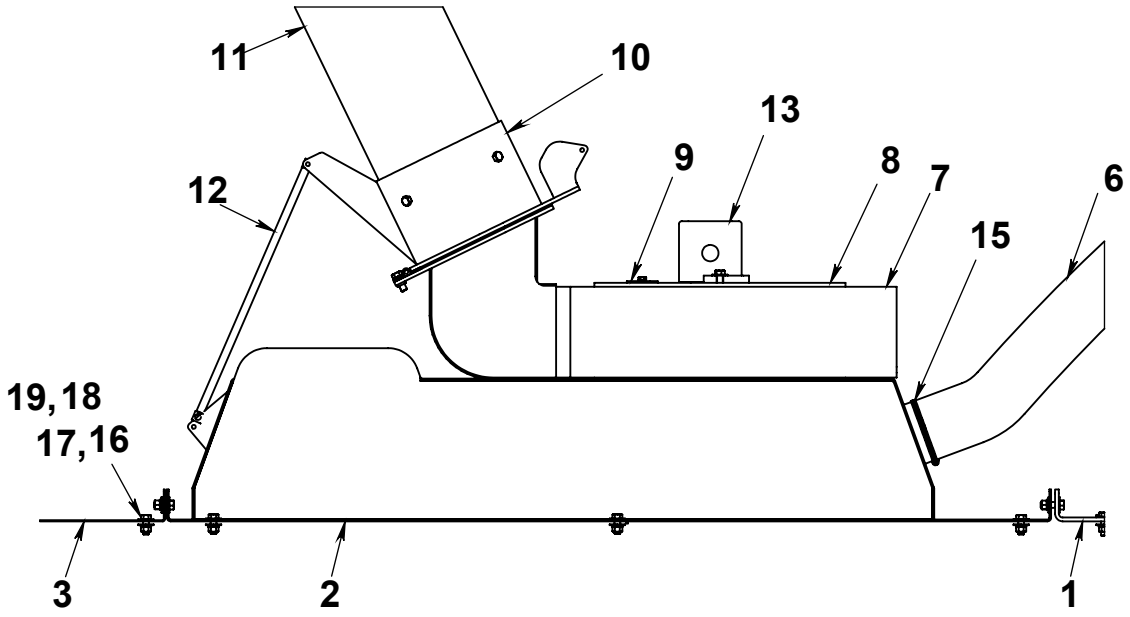
ASSY-INSULATION PANEL & TRUCK RAIL (234451-01)



ITEM #	PART #	DESCRIPTION	QTY
1	246630-01	WELDMENT-C3 GUARD RAIL	2
2	212610-01	WELDMENT ~ C-3 INSULATION COVER 5	1
3	212606-01	WELDMENT-C3 INSULATION COVER 1	1
4	212607-01	WELDMENT-C3 INSULATION COVER 2	1
5	212608-01	WELDMENT-C3 INSULATION COVER 3	1
6	212609-01	WELDMENT ~ C-3 INSULATION COVER 4	1
7	212611-02	ASSY-C3 INSULATION SB-2500C	1
8	133842	HEX-HEAD/SELF-DRILLING~1/4-20 X 3/4	8

ASSEMBLY- C3 TOP COVER
(234450-01)



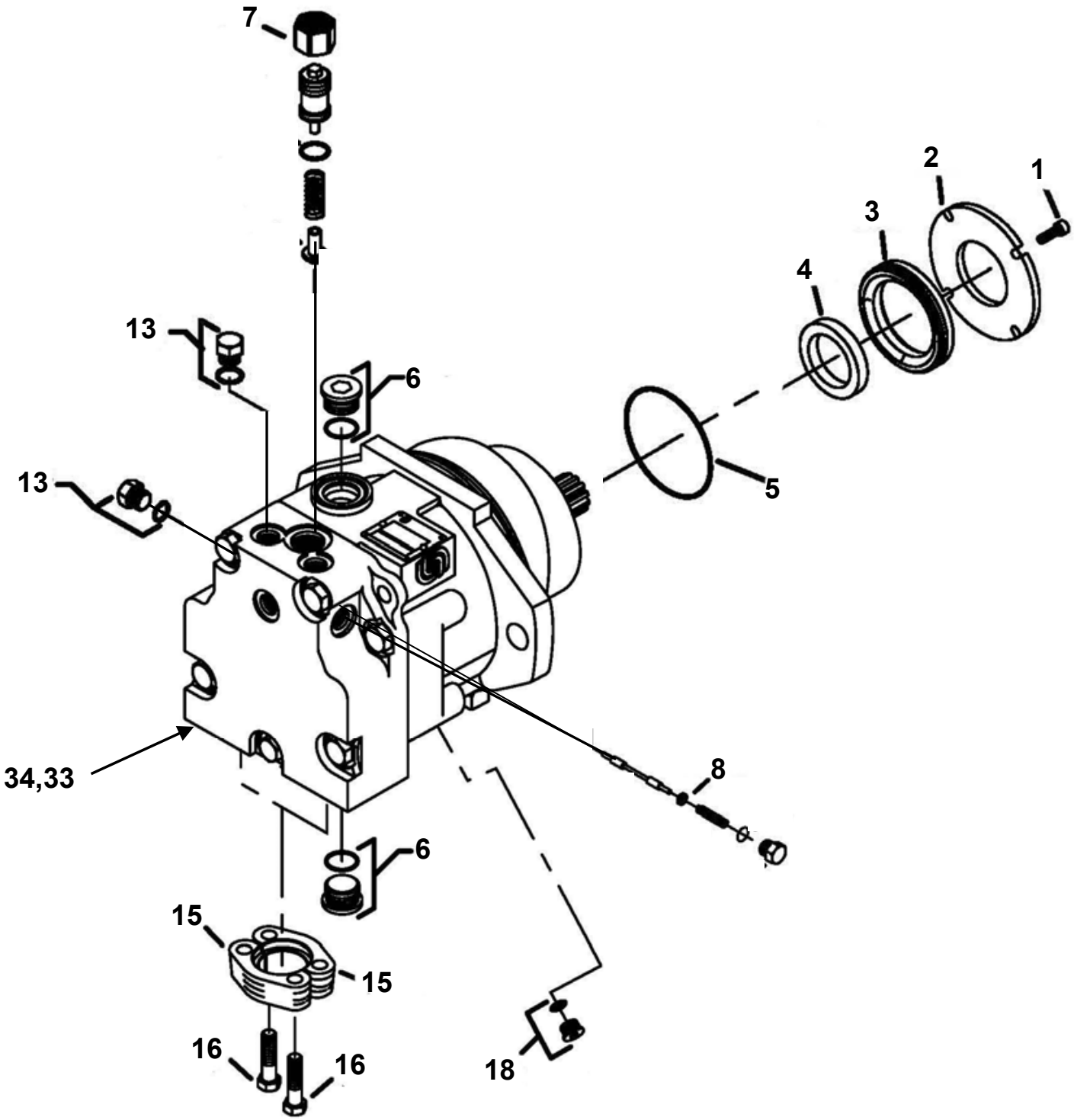


PARTIAL VIEW

ASSEMBLY- C3 TOP COVER
(234450-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	234367-03	WELDMENT-C3 TOP COVER (RECEIVING END)	1
2	234357-01	WELDMENT-C3 TOP COVER - FXS	1
3	234368-03	DETAIL-C3 TOP COVER PANEL	1
4	234545-03	WELDMENT-C3 TOP COVER (8 BOLT)	1
5	234527-03	DETAIL-C3 TOP COVER, DISCHARGE END	1
6	234356-01-1	HOSE - 4" FLEX 2 PLY x 105 INCHES	2
7	234358-01	WELDMENT-C3 BLOWER SHROUD	1
8	134686-01	BLOWER MOTOR MOUNTING PLATE (SUND)	1
9	134687-04	DETAIL-INSPECTION COVER	1
10	234411-02	WELDMENT-C3 FAN SHROUD VENT EXT.	1
11	129227-03	DETAIL-VENT PIPE	1
12	133967-04	SPRING * 1/2"OD. 10"LG X 1/16"WIRE	1
13	215588-04	MOTOR - HYD 0.66 CID	1
14	130665-04	BUSHING & KEY	1
15	129000	CLAMPS * HOSE 4 1/2" IDEAL # 6464	4
16	84332	BOLT * HEX 3/8"-16 X 1"	40
17	83757	WASHER ~ FLAT 3/8 STEEL	86
18	83056	WASHER ~ LOCK 3/8 SPRING STEEL	50
19	83055	NUT * 3/8-16 HEX GRADE 8	47
20	96476	BOLT * HEX 3/8"-16 X 1 1/4"	10
21	92235	NUT * 3/8"-16 LOCK GRADE 8	2
22	83065	WASHER * LOCK 1/4" SPRING STEEL	10
23	83114	BOLT * HEX 1/4"-20 X 1/2"	10
24	84444	WASHER * FLAT 1/4" STEEL	8
25	248768-03	DETAIL-WASHDOWN SPRAYER HOLES COVER	4

ASSEMBLY - C3 DRIVE MOTOR
(91681-04)



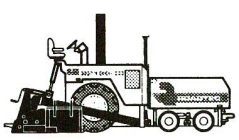
ASSEMBLY - C3 DRIVE MOTOR
(91681-04)

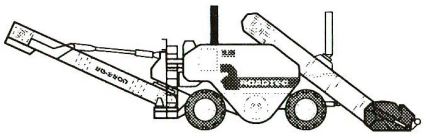
ITEM #	PART NO.	DESCRIPTION	QTY.
1	91681-04-C5	SCREW - SOC. HD.	3
2	91681-04-C10	RETAINER PLATE	1
3	91681-04-C11	CARRIER - SEAL	1
4	91681-04-C3	LIP SEAL	1
5	91681-04-C4	O-RING	1
6	91681-04-C12	PLUG W/ O-RING	2
7	91681-04-C13	CHARGE RELIEF VALVE	1
8		FLUSHING VALVE	1
9	91681-04-C14	SHUTTLE VALVE SPOOL	1
10		SPRING	1
11	91681-04-C15	SPRING GUIDE	1
12		O-RING	1
13	91681-04-C16	PLUG W/ O-RING	2
14			
15		SPLIT FLANGE	3
16	91681-04-C17	SCREW	12
17			
18	91681-04-C19	PLUG W/ O-RING	3
19		CHARGE PUMP SHAFT	1
20		KEY	1
21	91681-04-C20	SPRING - GUIDE	1
22		RETAINING PLATE	1
23	91681-04-C5	SCREW	6
24		COVER ASSY.	1
25	91681-04-C9	JOURNAL BEARING ASSY.	1
26	91681-04-C7	SHAFT	1
27	91681-04-C4	O-RING	1
28		PLUG	1
29		REDUCER FITTING	1
30		PLUG W/ O-RING	
31		ALIGNMENT PIN	1
32		KIT - CHARGE PUMP	1
33	91681-04-C1	GASKET - END PLATE	1
34	91681-04-C2	END PLATE	
35			

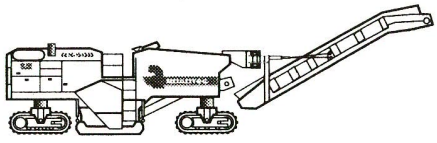
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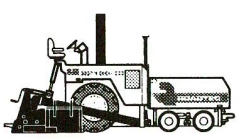
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

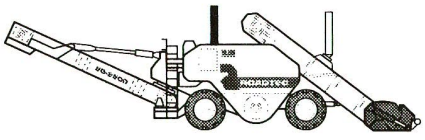
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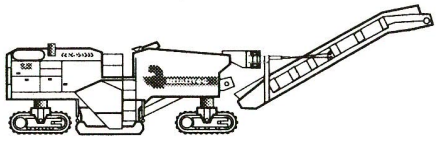
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SECTION 5 : HYDRAULICS

NEXT PAGE

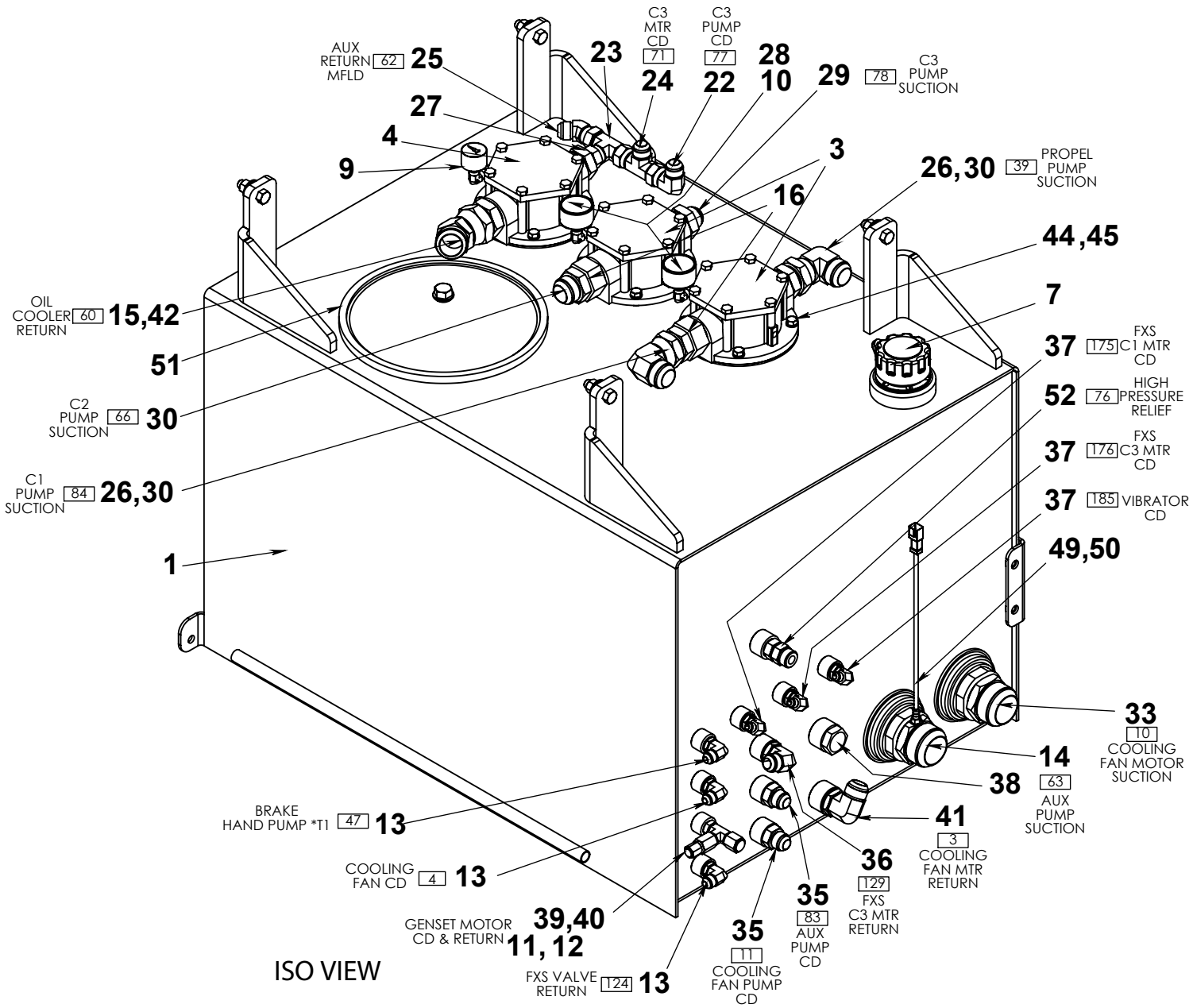
ASSEMBLY	PART NO.	S/N	PAGE NO.
HYDRAULIC TANK	252407-01	3003 & UP	5.1
HOUSING.- DOUBLE ELEMENT FILTER	29G38		5.6
18” ELEMENT	229517-03		5.7
HOUSING - 2 ELEMENT FILTER W/ BY-PASS	29G37		5.8
18” ELEMENT	229518-03		5.9
DRIVE (PROPEL)	253400-01		5.10
DIFF. LOCK VALVE, H-FORCE	252193-02		5.12
BRAKE CIRCUIT	253397-01		5.14
BRAKE CARTRIDGE	240011-03		5.17
HAND-PUMP / PILOT VALVES MANIFOLD	253944-03		5.19
STEERING	253273-01		5.22
CYLINDER, STEERING	219625-03		5.24
SLIDE PLATFORM & FLOWGATES	254063-01		5.26
FLOWGATE CNTL. MANIFOLD	236178-02		5.28
CYLINDER, FLOWGATE	144894-01		5.29
FUME CONTROL	255661-02		5.30
FUME CNTL. MANIFOLD	236180-03		5.32
AUXILIARY PUMP & OIL COOLER	252259-01		5.34
FILTER, HI PRESS. IN-LINE	252258-03		5.36
RETURN MANIFOLD	244731-03		5.37
AUX. RETURN MANIFOLD	236251-03		5.38
AUX. PRESSURE MANIFOLD	242297-03		5.39
RELIEF VALVE, HI-PRESS.	252290-03		5.40
C-1 HYD. PUSH ROLLER	253764-01		5.42
PUSH ROLLER MANIFOLD	253765-03		5.44
CYLINDER, PUSH ROLLER	147955-03		5.45
HOOD RAISE	253954-01		5.46
CYLINDER, HOOD RAISE	201812-01		5.48
C-1 CONVEYOR DRIVE	255659-01		5.50
C-1 RAISE / LOWER	255660-01		5.52
C-1 RAISE/LOWER MANIFOLD	242500-03		5.54
CYLINDER, C-1 RAISE/LOWER	207380-01		5.55
C-1 HOPPER	250873-01		5.56
C-1 HOPPER CONTROL MANIFOLD	250869-02		5.59
CYLINDER, C-1 HOPPER RAISE	97482-01		5.61
CYLINDER, C-1 BAFFLE	215523-01		5.62
C-2 CONVEYOR DRIVE	248247-01		5.64
C-2 HOPPER CLEAN OUT	251529-01		5.66
C-2 CLEAN-OUT MANIFOLD	251547-03		5.70

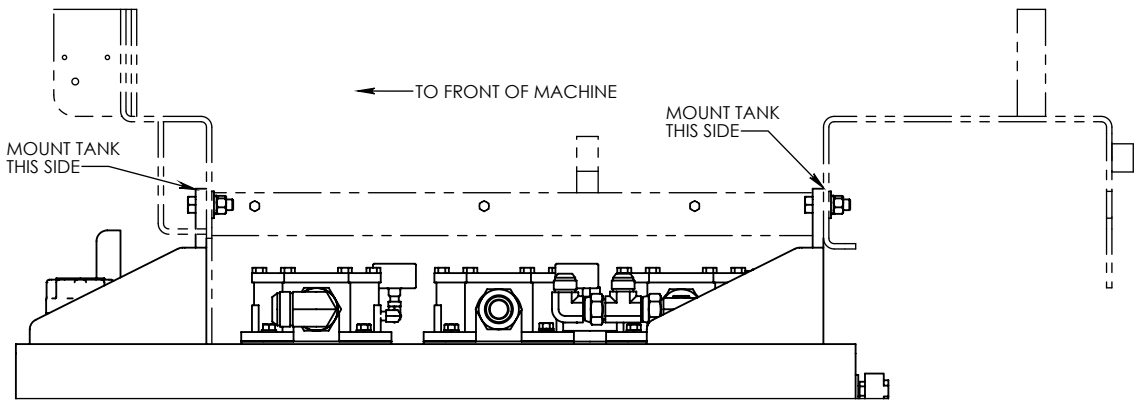
SECTION 5 : HYDRAULICS

ASSEMBLY	PART NO.	S/N	PAGE NO.
CYLINDER,RT FRT C2 COD	248860-03		5.71
CYLINDER,LT FRT C2 COD	248861-03		5.72
CYLINDER,RT RR C2 COD	248862-03		5.73
CYLINDER,LT RR C2 COD	248863-03		5.74
C-3 CONVEYOR DRIVE	248248-01		5.76
C-3 CONTROL	254065-01		5.78
C-3 CNTL. MANIFOLD	236179-02		5.81
CYLINDER, C-3 LIFT	214518-01		5.83
CYLINDER, C-3 SWING	144901-01		5.84
HYDRAULIC TUB	255625-01		5.86
LT TUB BULKHEAD	242090-03		5.88
RT TUB BULKHEAD	250832-03		5.89
COOLING FAN HYD'S.	249245-01		5.90
LUBRICATION CHART	254653-01		
JIC FITTING INSTRUCTIONS	134914-02		
SPEED CHART	255591-01		
HOSE KIT	253787-04	3003 & UP	
TEST PORT HOSE KIT	252647-04		
SCHEMATIC	253788-01	3003 & UP	

ASSY- HYDRAULIC TANK, SB-2500eX
(252407-01)

NEXT PAGE



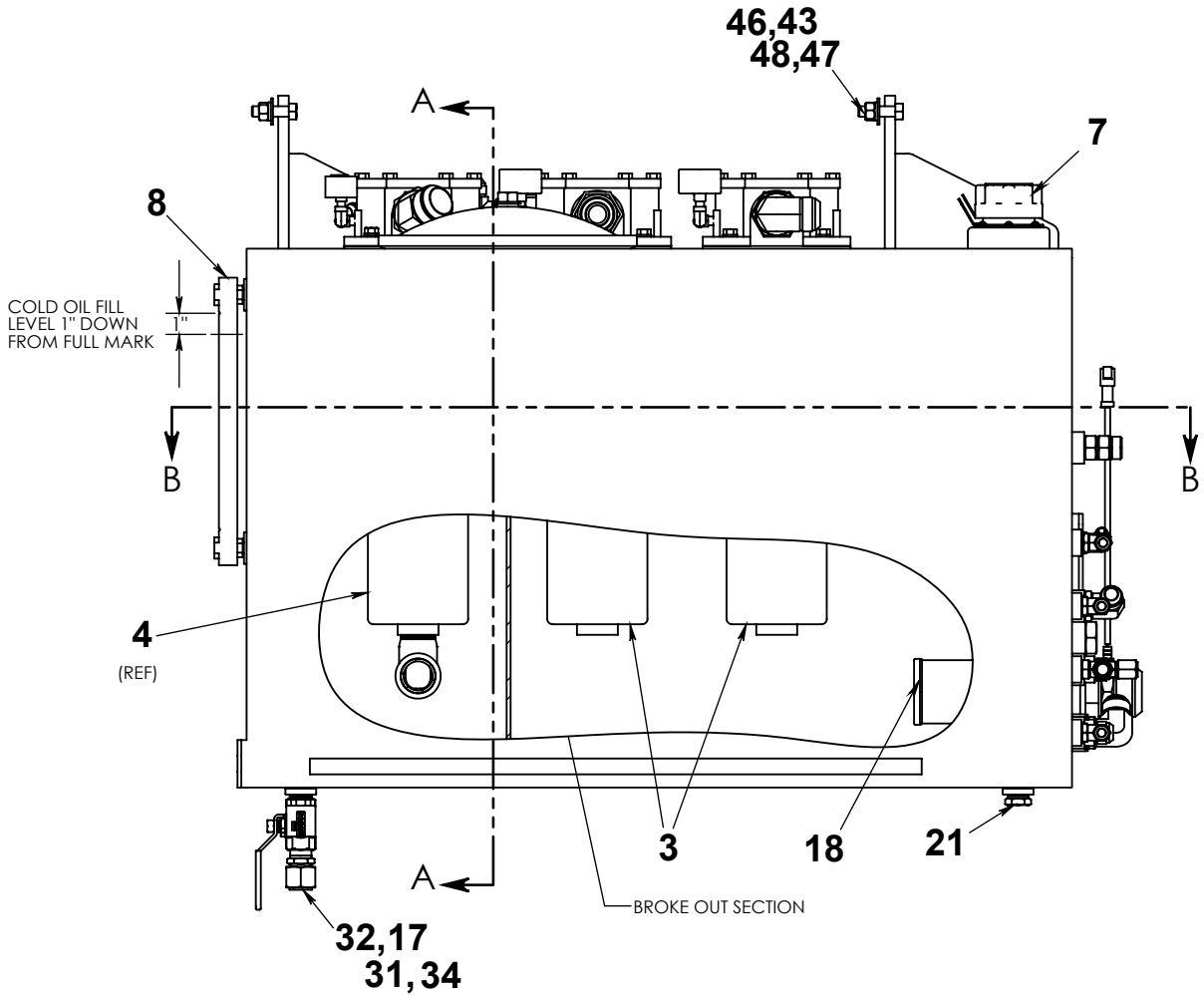


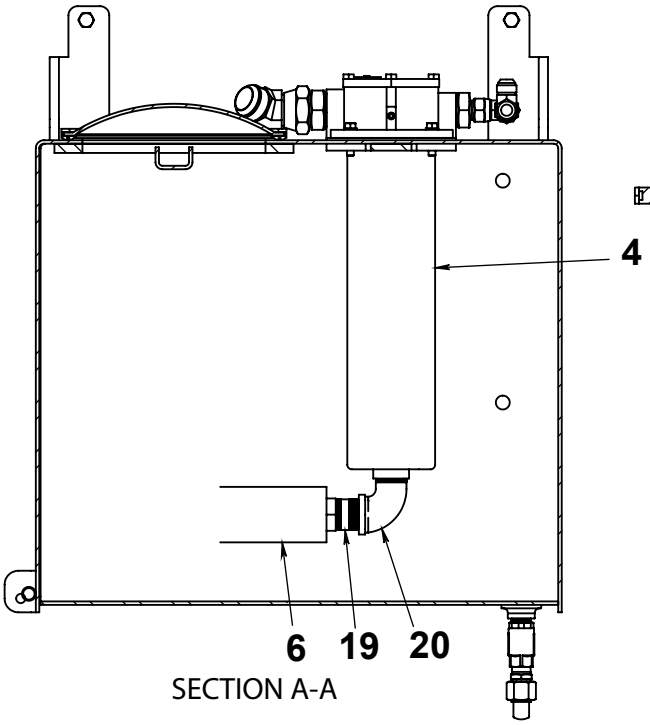
CROPPED MOUNTING VIEW

ROADTEC an Astec Industries Company

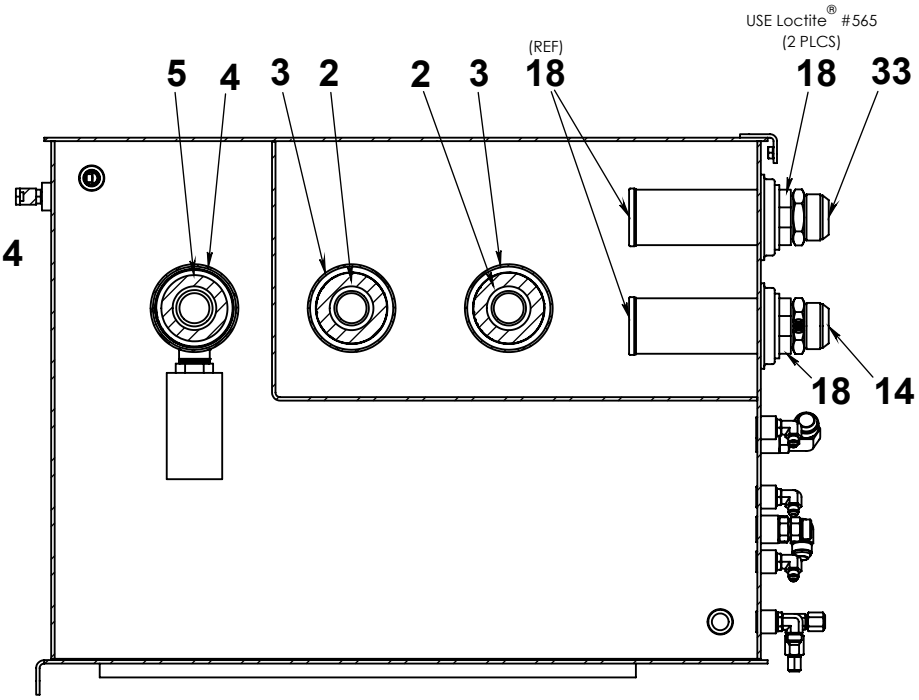
PREVIOUS PAGE

ASSY- HYDRAULIC TANK, SB-2500eX
(252407-01)





SECTION A-A



SECTION B-B

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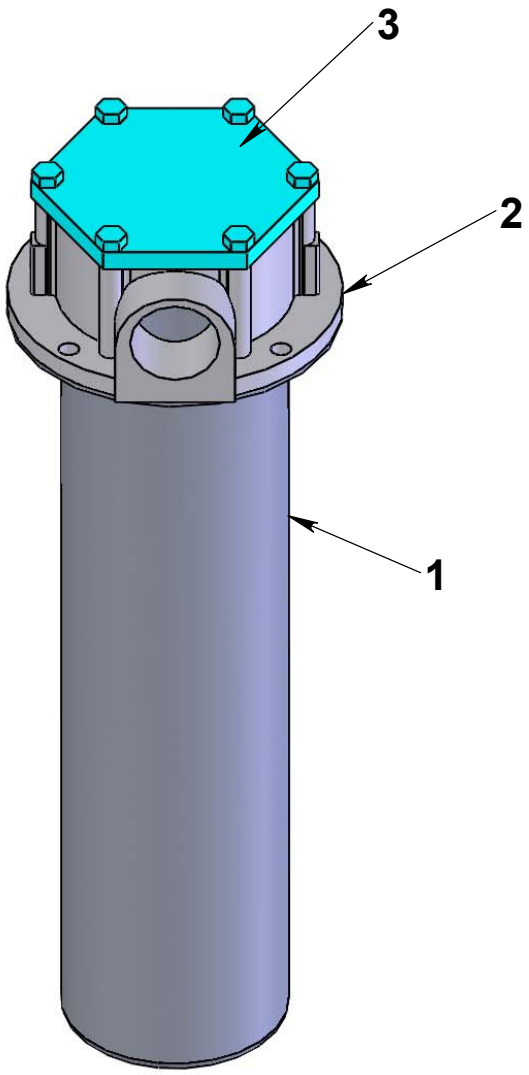
ASSY- HYDRAULIC TANK, SB-2500eX
(252407-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	252264-01	WELDMENT-HYD TANK, SB-2500E T4	1
2	229517-03	ELEMENT - LABELED 18" 10 MICRON SUCTION	2
3	29G38	FILTER ~ HOUSING DOUBLE ELEMENT	2
4	29G37	FILTER - HOUSING 2 ELEMENT W/BYPASS	1
5	229518-03	ELEMENT - LABELED 18" 3 MICRON RETURN	1
6	16w28	RETURN LINE DIFFUSER 1 1/4"NPT	1
7	87237-04	FILLER CAP	1
8	97412-04	GAUGE * CHANNEL LIQUID LEVEL	1
9	29E61	GAUGE * PRESS. USE W/15 PSI.FILTER	1
10	33019	GAUGE * VACUUM (SUCTION FILTER)	2
11	83988	FIT * CAP 8 JIC STEEL	1
12	83766-04	FIT * RUN TEE 8 JIC - 8 SAE MALE	1
13	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	3
14	238381-04	MODIFICATION-32 JIC X NPT TEMP PROBE	1
15	83768-04	FIT * CONNECTOR 24 JIC - 24 SAE M.	1
16	28G05	FIT * ST.ADAPTOR 24 SAEM X 20 SAEF	2
17	84002-04	FIT ~ CONNECTOR 12 JIC -3/4 NPT M.	1
18	89013-04	FILTER * TANK STRAINER 100	2
19	80591	NIPPLE * CLOSE 1 1/4"	1
20	92144	PLUMB * STREET ELBOW 90° 1 1/4" NPT	1
21	97032	PIPE PLUG ~ 3/4" NPT HEX HEAD	1
22	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	1
23	89898-04	FIT ~ BRANCH TEE 12 JIC SWIVEL	1
24	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	1
25	90952-04	FIT * ELBOW 12 JIC 45 DEG. SWIVEL	1
26	85216-04	FIT * SWIVEL ELBOW 20 JIC 90 DEG	2
27	120671	FIT ~ 12 JIC x 20 SAE ST.	1
28	23J52	FIT * ELBOW 1/8"NPTM X 1/8 NPTF 90	6
29	84632-04	FIT * CONNECTOR 16 JIC - 20 SAE M.	1
30	84244-04	FIT * CONNECTOR 20 JIC - 20 SAE M	3
31	92037-04	VALVE * 3/4" APOLLO BALL HANDTYPE	1
32	85394-04	FIT * CAP 12 JIC	1
33	210630-04	FIT * 2 NPT X 32 JIC M	1
34	80250	NIPPLE * CLOSE 3/4"	1
35	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	2
36	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
37	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	3
38	85396-04	FIT * PLUG 16 SAE	1
39	84060-04	FIT ~ ADAPTOR 8 JIC - 6 JIC RED.	1
40	85391-04	FIT * CAP 6 JIC	1
41	91660	FIT * ELBOW 16 JIC - 16 SAE 90 DEG.	1
42	128222	FIT * 24 JIC-24 JIC FEMALE SW.45	1
43	83317	WASHER * LOCK 1/2" SPRING STEEL	4
44	83924	BOLT * HEX 3/8"-16 X 1 1/2"	12
45	83056	WASHER ~ LOCK 3/8 SPRING STEEL	12

ASSY- HYDRAULIC TANK, SB-2500eX
(252407-01)

ITEM #	PART #	DESCRIPTION	QTY.
46	83781-04	WASHER * FLAT 1/2" STEEL	4
47	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	4
48	83288	NUT * 1/2"-13 HEX GRADE 8	4
49	236344-04	ELEC * AUXILIARY TEMP SENSOR	1
50	216674-03-C1	KIT * O-RING	1
51	212796-03	ASSEMBLY-HYDRAULIC TANK COVER	1
52	252256-04	FIT * 12 STRAIGHT THREAD UNION	1

FILTER ~ HOUSING DOUBLE ELEMENT (29G38)



REPLACEMENT ELEMENT: #229517-03 10 MICRON SUCTION

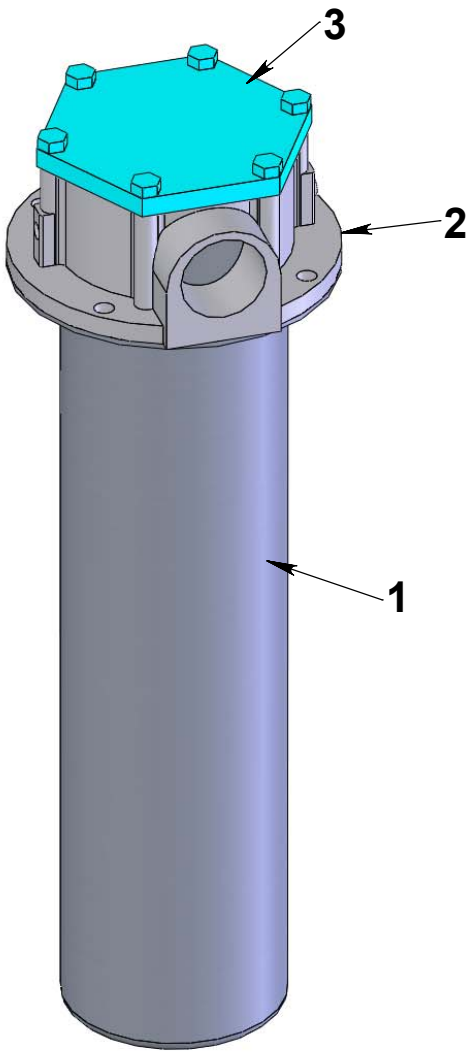
ITEM #	PART #	DESCRIPTION	QTY
1	29g38 bowl	29g38 bowl	1
2	28g38 filter head	28g38 filter head	1
3	29g38 filter head cap	29g38 filter head cap	1

ELEMENT - LABELED 18" SUCTION (229517-03)



ITEM #	PART #	DESCRIPTION	QTY
1	229517-03	ELEMENT - LABELED 18" SUCTION	1

FILTER ~ HOUSING 2 ELEMENT W/BYPASS (29G37)



REPLACEMENT ELEMENT: #229518-03 3 MICRON

ITEM #	PART #	DESCRIPTION	QTY
1	29g38 bowl	29g38 bowl	1
2	28g38 filter head	28g38 filter head	1
3	29g38 filter head cap	29g38 filter head cap	1
4	84385-04	PLUG 1/8"NPT CSK ALLEN HEAD	1

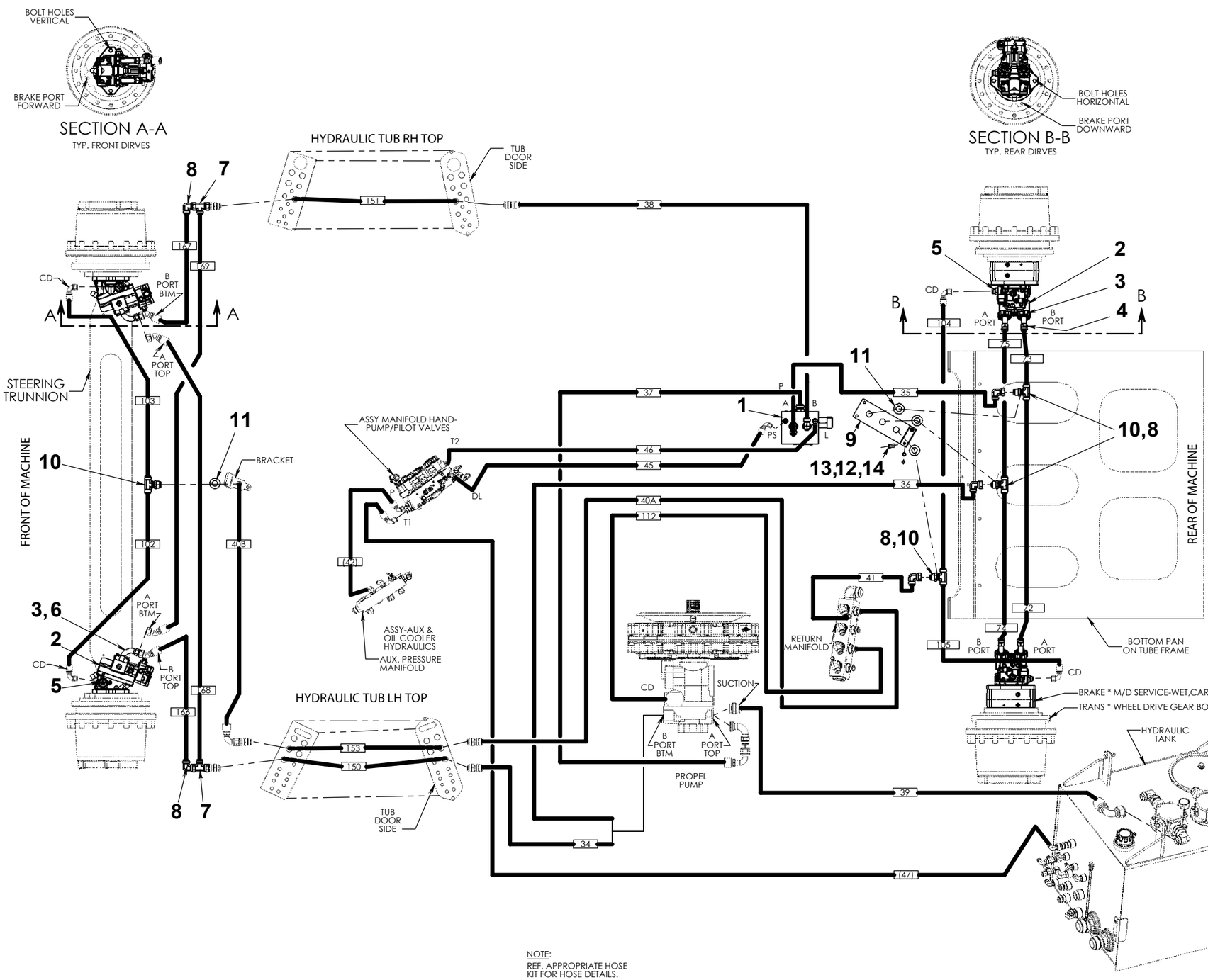
ELEMENT - LABELED 18" RETURN (229518-03)



ITEM #	PART #	DESCRIPTION	QTY
1	229518-03	ELEMENT - LABELED 18" RETURN	1

ASSY- PROPEL DRIVE HYDRAULICS
(253400-01)

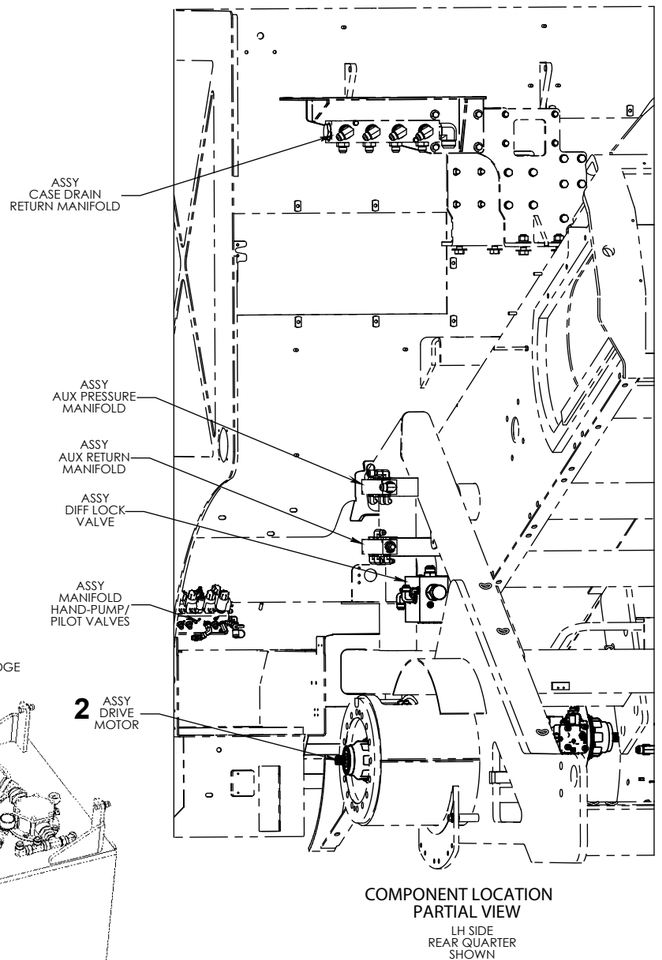
ITEM #	PART #	DESCRIPTION	QTY.
1	252193-02	ASSEMBLY-MANIFOLD DIFF-LOCK H-FORCE	1
2	240199-04	MOTOR * S51 60CC CARTRIDGE,2SP, 24V	4
3	86076-04	KIT * FLANGE #12 CODE 62	8
4	97555	FIT * 12 JIC,- 12 FLG,ST CODE 62	4
5	89616	FIT * 8 JIC X 12 SAE ST. MALE	4
6	83890-04	FIT * 12 JIC-12 FLG 90 CODE 62	4
7	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	2
8	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	5
9	238348-03	DETAIL-BULKHEAD, STEERING HOSES	1
10	85302	FIT * BULKHEAD BRANCH TEE 12 JIC	4
11	10S89	WASHER ~ FLAT 1" A325	4
12	83055	NUT * 3/8-16 HEX GRADE 8	2
13	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
14	84332	BOLT * HEX 3/8"-16 X 1"	2



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

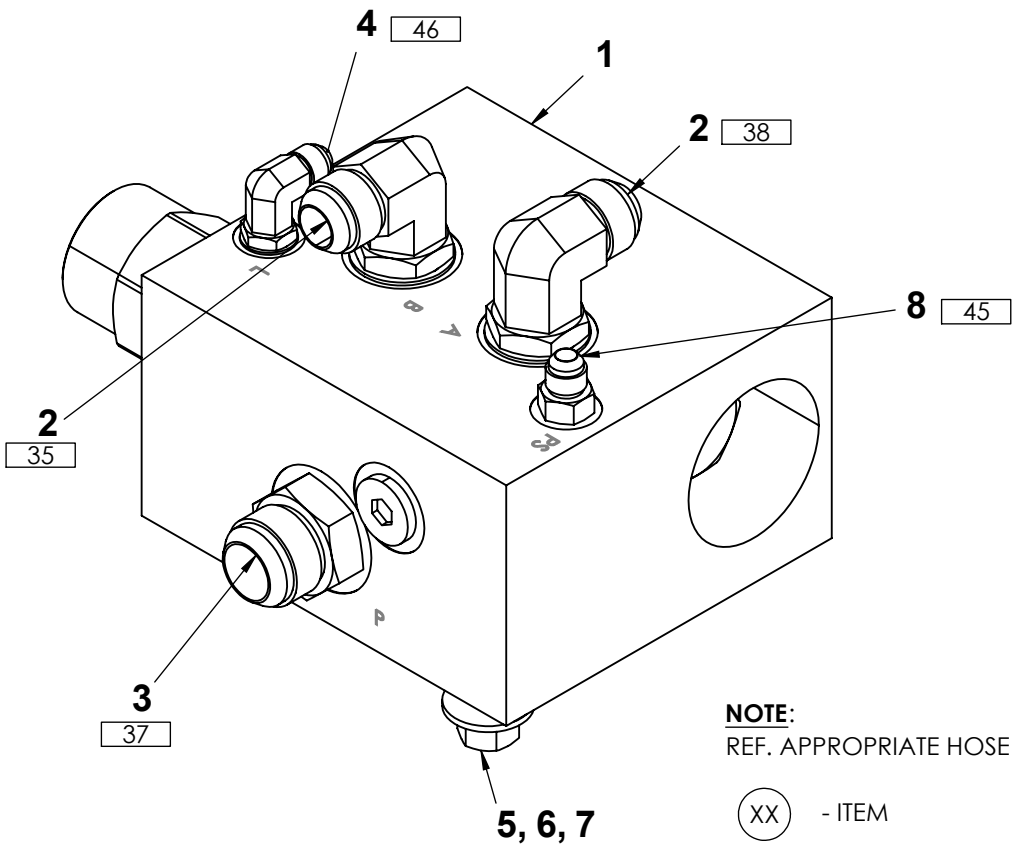
[XX] - HOSE NUMBER



COMPONENT LOCATION
PARTIAL VIEW
LH SIDE
REAR QUARTER
SHOWN

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ASSY- MANIFOLD, DIFF-LOCK H-FORCE
(252193-02)



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

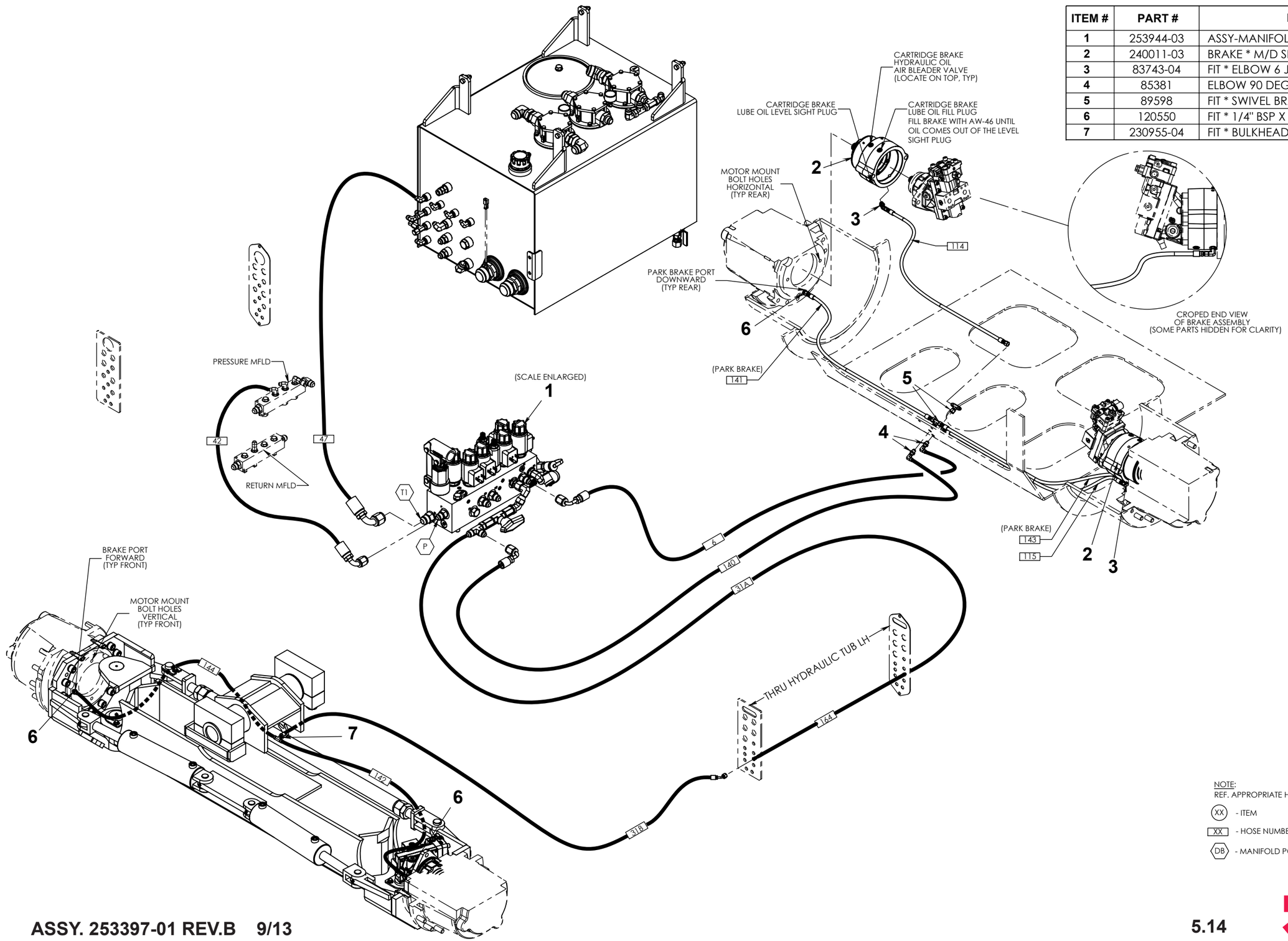
[XX] - HOSE NUMBER

⬡XX⬡ - MANIFOLD PORT

ITEM #	PART #	DESCRIPTION	QTY.
1	246062-03	MANIFOLD DIFF-LOCK HYDRAFORCE	1
2	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	2
3	89610	FIT * 16 JIC X 16 SAE ST. MALE	1
4	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	1
5	86164	BOLT * HEX 1/2"-13 X 1 1/4"	2
6	83317	WASHER * LOCK 1/2" SPRING STEEL	2
7	83781-04	WASHER * FLAT 1/2" STEEL	2
8	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	1

ASSY- BRAKE CIRCUIT HYDRAULICS
(253397-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	253944-03	ASSY-MANIFOLD-HAND PUMP/PILOT VALVS	1
2	240011-03	BRAKE * M/D SERVICE-WET,CARTRIDGE	2
3	83743-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	2
4	85381	ELBOW 90 DEG BULKHEAD W/LOCKNUT -6 JIC	2
5	89598	FIT * SWIVEL BRANCH TEE 6 JIC	2
6	120550	FIT * 1/4" BSP X 6 JIC ST.	4
7	230955-04	FIT * BULKHEAD BRANCH TEE 6 JIC	1



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

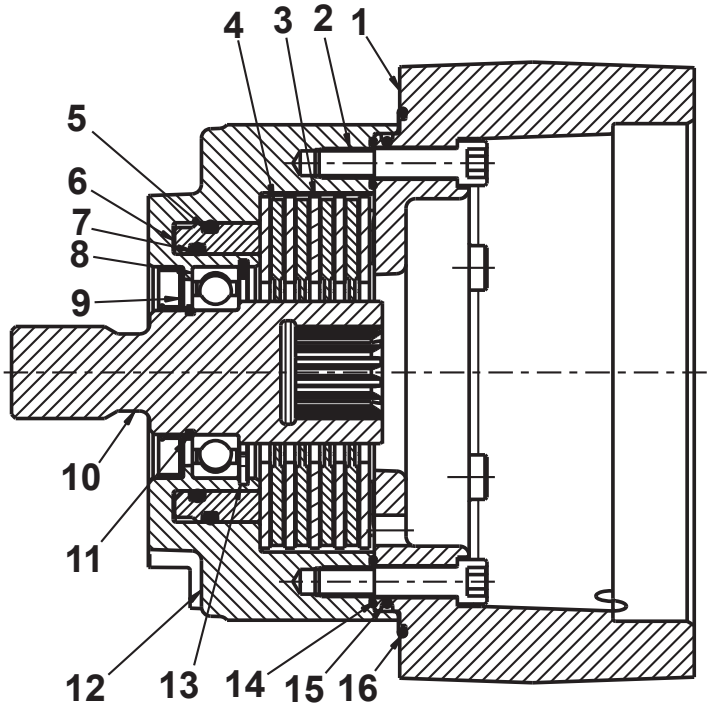
(XX) - ITEM

[XX] - HOSE NUMBER

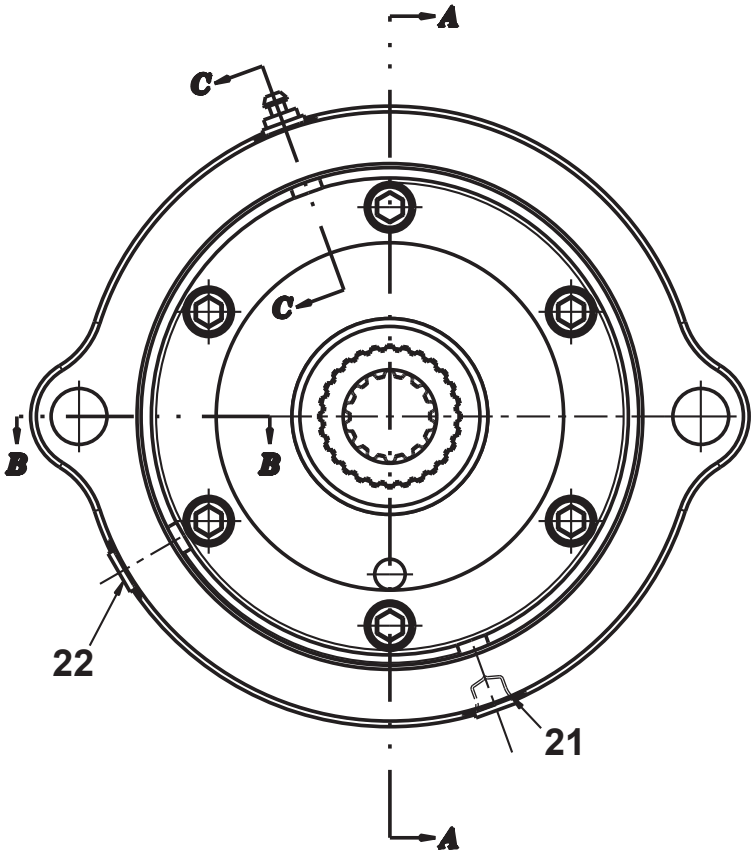
<DB> - MANIFOLD PORT

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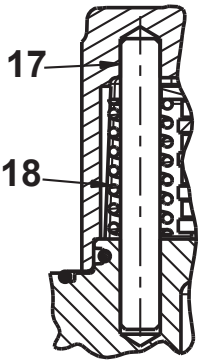
ASSY- BRAKE, M/D SERVICE-WET , 2500e/eX
(240011-03)



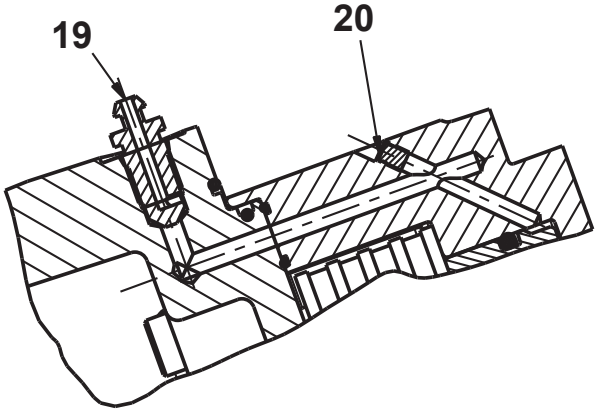
SECTION A-A



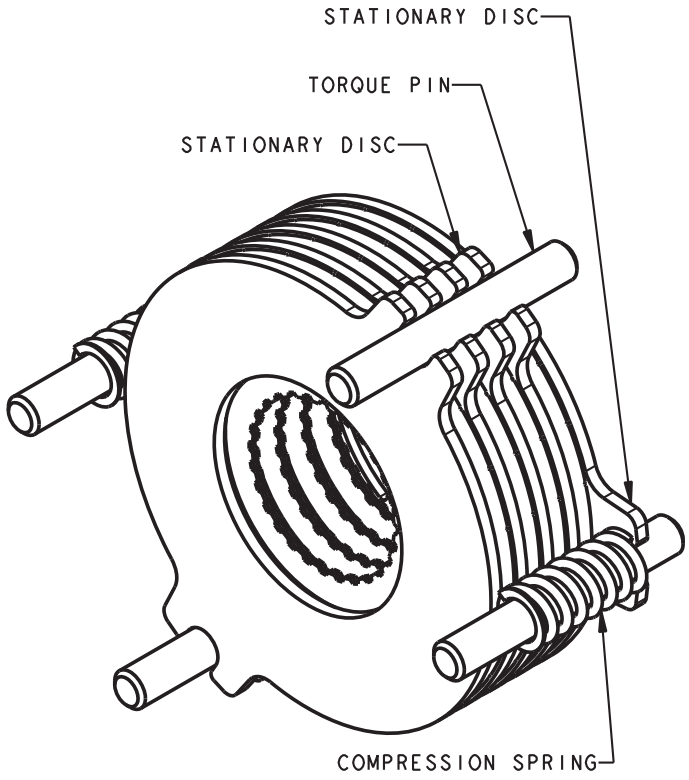
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SECTION B-B



SECTION C-C



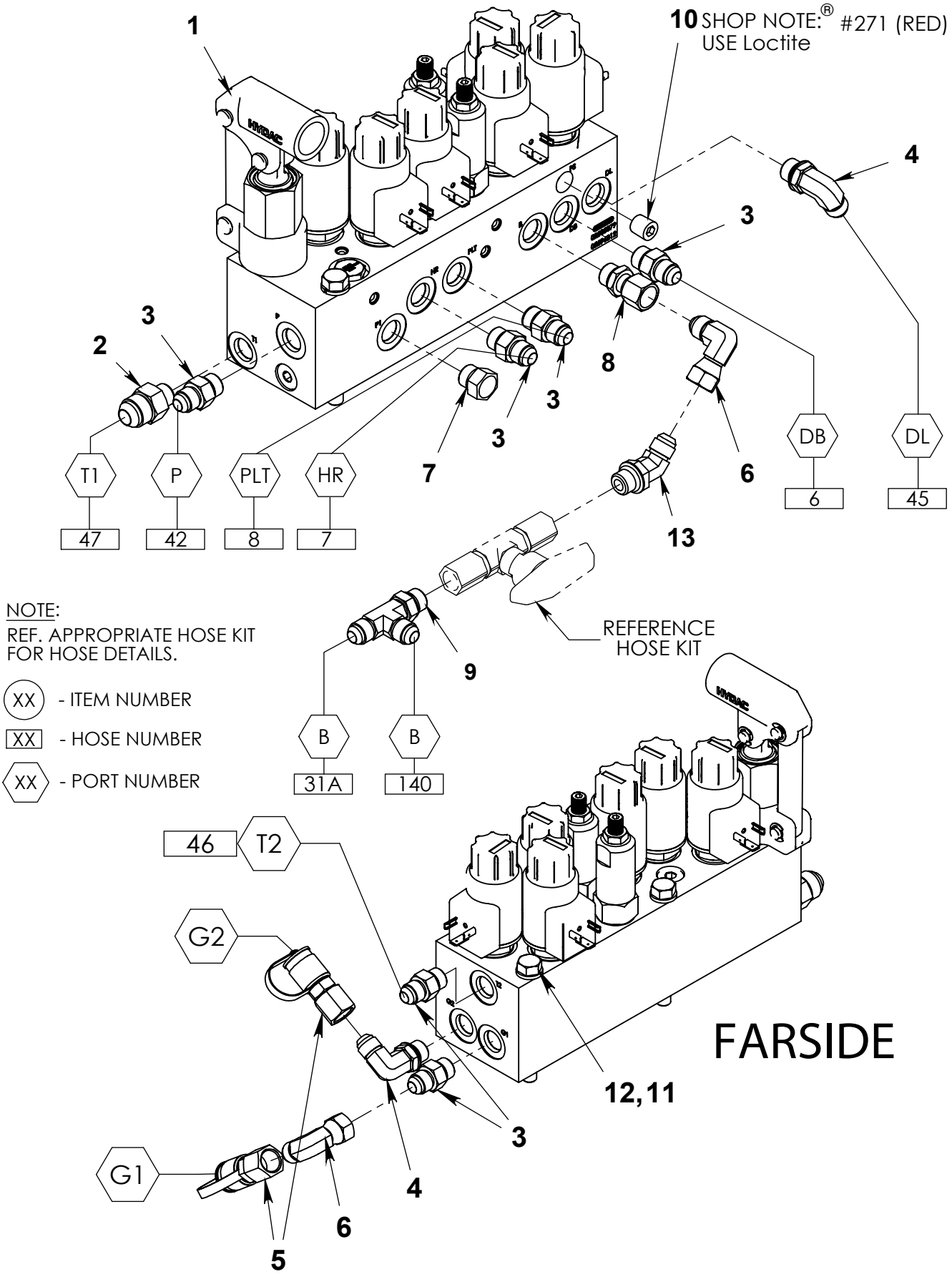
STACK ORIENTATION VIEW

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BRAKE CARTRIDGE ASSEMBLY
(240011-03)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	240011-03-C2	POWER PLATE	1
2	240011-03-C3	SOCKET HEAD CAP SCREW	6
3	240011-03-C4	STATIONARY DISC	5
4	240011-03-C5	ROTATING DISC	4
5	93897-01-C9	O-RING	1
6	240011-03-C6	SERVICE PISTON	1
7	240011-03-C7	O-RING	1
8	130086-C10	BEARING	1
9	240011-03-C8	OIL SEAL	1
10	216335-02	SHAFT	1
11	208210-04-C4	RETAINING RING	1
12	240011-03-C9	HOUSING	1
13	130086-C22	RETAINING RING	1
14	240011-03-C10	O-RING	8
15	240011-03-C11	O-RING	1
16	240011-03-C12	O-RING	1
17	240011-03-C13	TORQUE PIN	4
18	240011-03-C14	COMPRESSION SPRING	2
19	130086-C5	BLEEDER SCREW	1
20	240011-03-C15	PIN PLUG	2
21	152866	PROTECTIVE PLUG	2
22	135062-01	HEX SOCKET PLUG	3

ASSY- MANIFOLD, HAND PUMP/ PILOT VALVES
(253944-03)

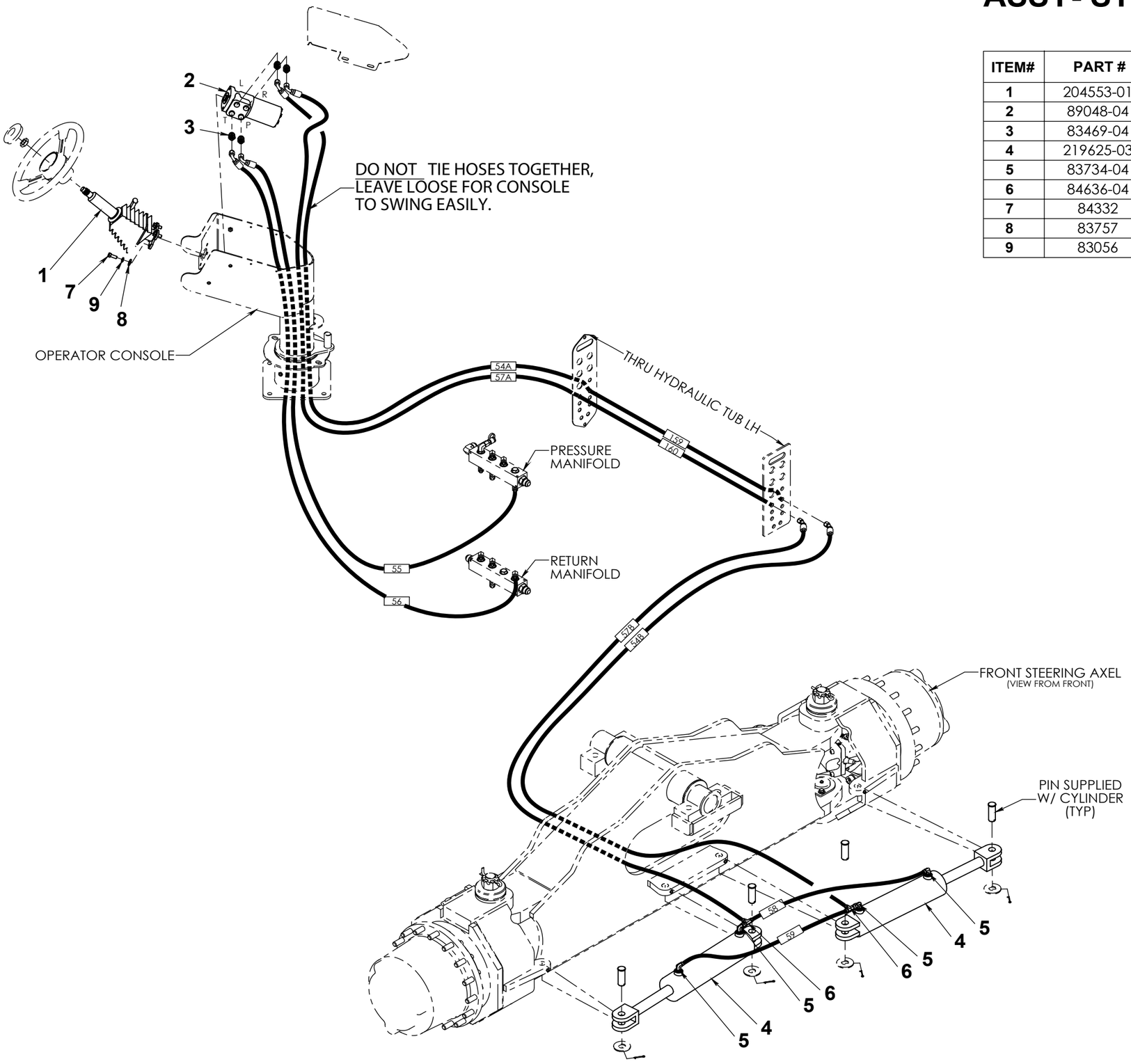


ASSY- MANIFOLD, HAND PUMP/ PILOT VALVES (253944-03)

ITEM#	PART #	DESCRIPTION	QTY.
1	235771-01	MANIFOLD-HOOD BRAKE CONTROLS 24V	1
2	83462-04	FIT * CONNECTOR 8 JIC - 6 SAE MALE	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	6
4	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	2
5	140303-04	FIT * TEST PORT 9KPSI #6 JIC FS	2
6	83953-04	FIT ~ FM SWIVEL ELBOW 6 JIC 90 DEG.	2
7	84635-04	FIT * PLUG 6 SAE	1
8	135923-04	FIT * 6 SAE MALE - 6 JIC FEM SW.STR	1
9	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
10	80548	PIPE PLUG 1/4" NPT CSK	1
11	83056	WASHER ~ LOCK 3/8 SPRING STEEL	3
12	121809	BOLT * HEX 3/8"-16 X 3 1/2"	3
13	137703-04	FIT * 6 SAE X 6 JIC 45 ELBOW	1

ASSY- STEERING HYDRAULICS
(253273-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	204553-01	STEERING * TILT COLUMN	1
2	89048-04	VALVE * (A) STEERING UNIT	1
3	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
4	219625-03	CYL * 3 1/2" BORE X 11" STROKE	2
5	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	4
6	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	2
7	84332	BOLT * HEX 3/8"-16 X 1"	4
8	83757	WASHER ~ FLAT 3/8 STEEL	4
9	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4



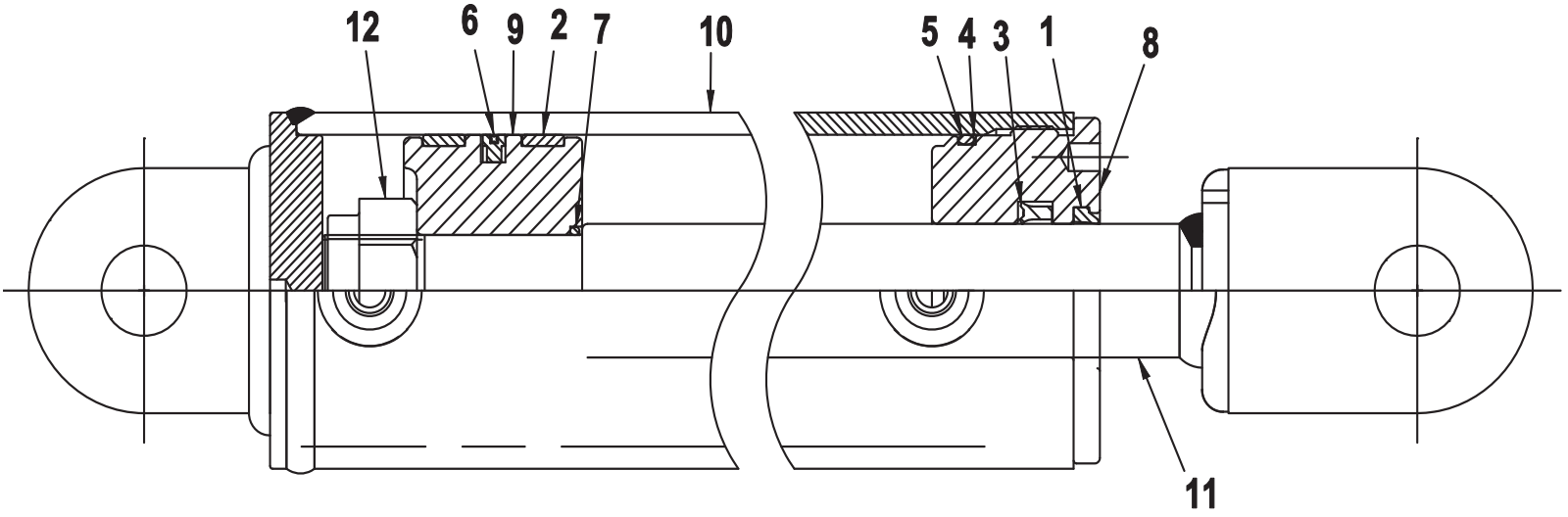
NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

[XX] - HOSE NUMBER

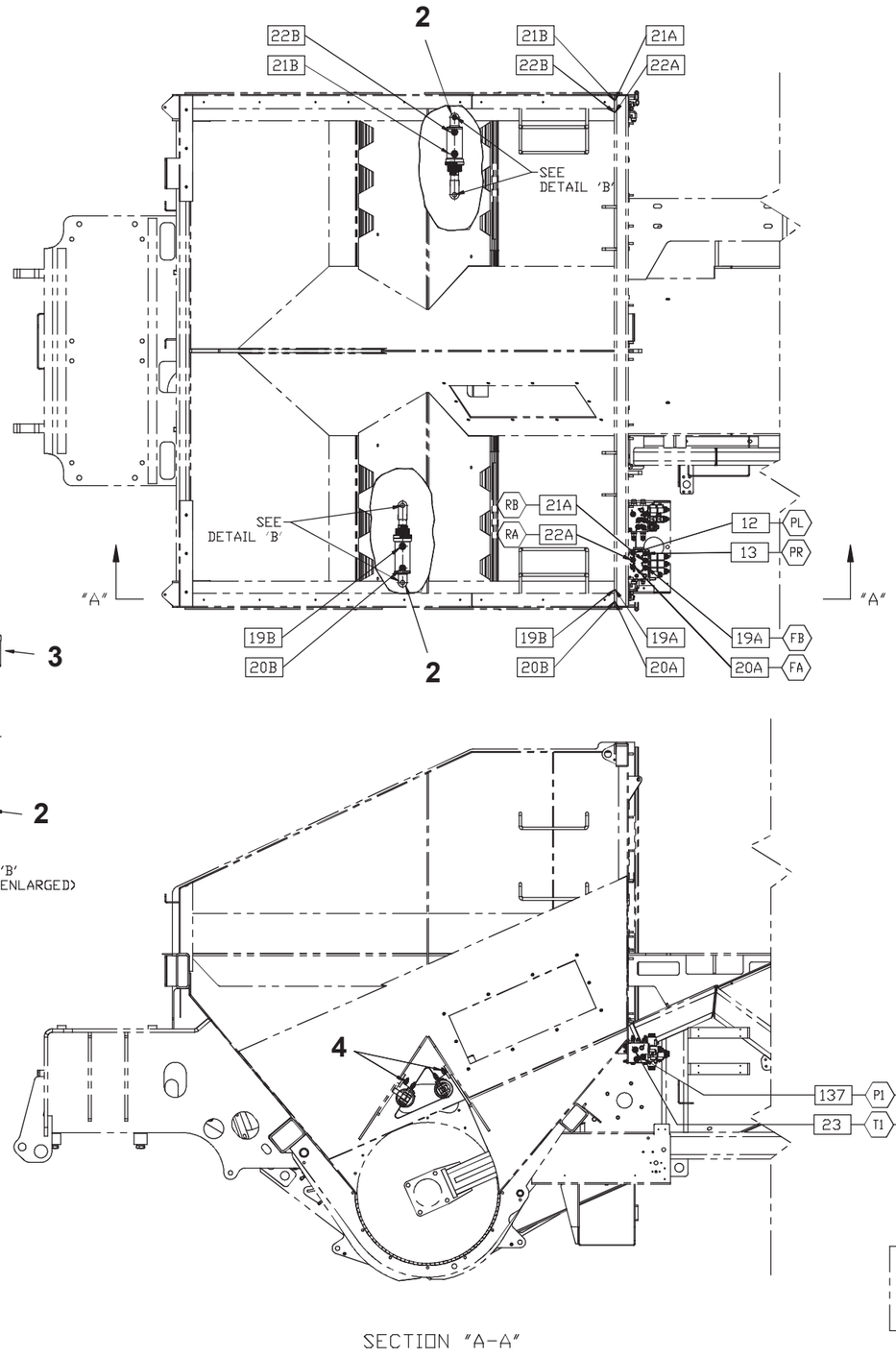
ROADTEC
an Astec Industries Company

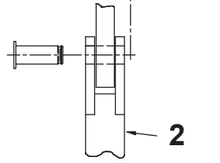
CYLINDER, STEERING
(219625-03)



ITEM #	PART NO.	DESCRIPTION	QTY.
1	219625-03-C9	POLY PAK	1
2	219625-03-C10	WIPER	1
3	219625-03-C11	O-RING	1
4	219625-03-C12	FLAT WASHER	4
5	219625-03-C13	BACK-UP	1
6	219625-03-C14	WEAR BAND	2
7	219625-03-C15	PISTON SEAL	1
8	219625-03-C16	O-RING	1
9	219625-03-C2	COTTER PIN	4
10	219625-03-C3	HEAD	1
11	219625-03-C4	PISTON SEAL	1
12	219625-03-C5	TUBE	1
13	219625-03-C6	ROD	1
14	219625-03-C7	CLEVIS PIN	2
15	219625-03-C8	LOCK NUT	1
16	219625-03-C1	SEAL KIT	1
17			
18			
19			
20			

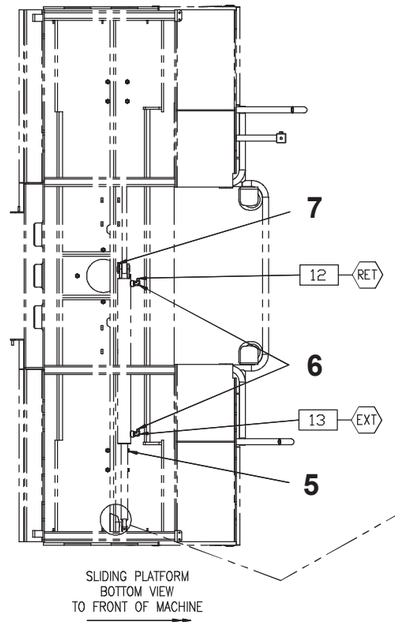
ASSY- SLIDE PLATFORM & FLOWGATE HYD'S.
(254063-01)



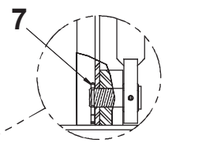


DETAIL 'B'
(SCALE ENLARGED)

SECTION "A-A"

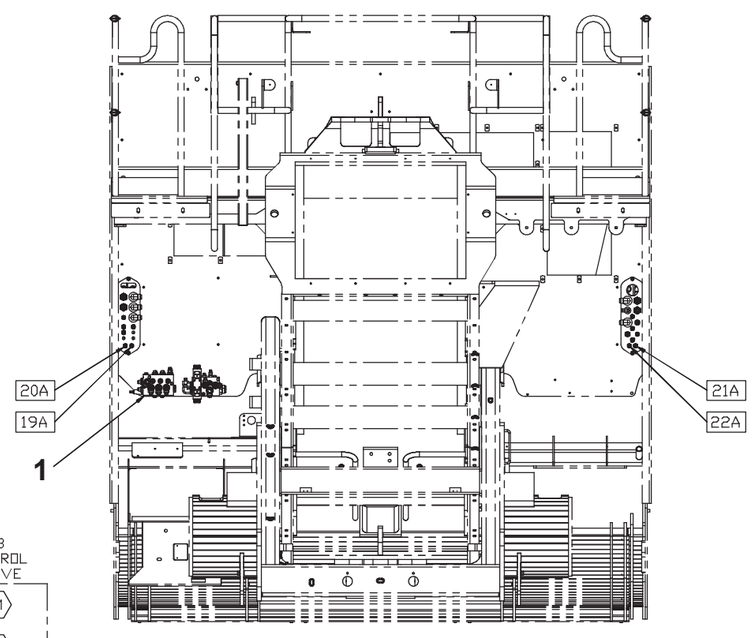


SLIDING PLATFORM
BOTTOM VIEW
TO FRONT OF MACHINE



DETAIL
(SCALE ENLARGED)

ITEM #	PART #	DESCRIPTION	QTY.
1	236178-02	ASSY- FLOWGATE CNTL. MANIFOLD	1
2	144894-01	CYL.- 3.00 BORE x 5.00 STROKE	2
3	144993-04	3/16" LYNCH PIN	4
4	83469-04	FITTING- 8 SAE MALE x 6 JIC	4
5	238115-03	CYL.- 2 1/2" BORE x 32" STROKE	1
6	84426-04	FIT * 6 JIC - 8 SAE 90 MALE	2
7	27D66	PIN- COTTER 3/16" x 2"	2



NOTE :
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

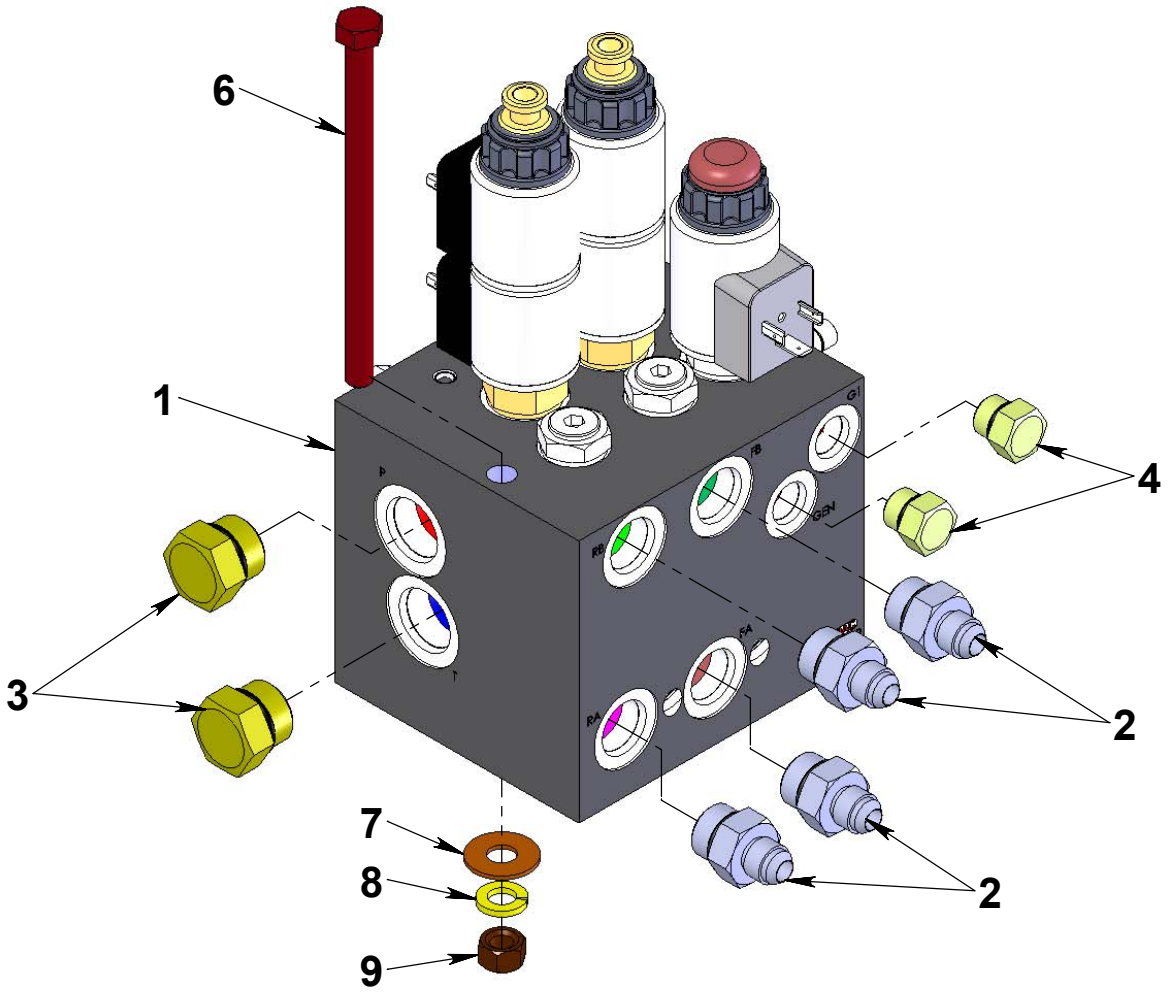
(XX) – ITEM

[XX] – HOSE NUMBER

<XX> – MANIFOLD PORT

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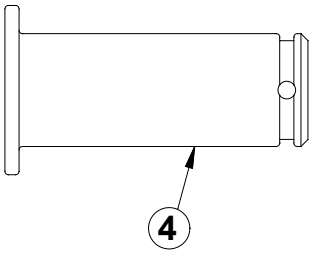
ASSEMBLY-FLOWGATE CONTROL MANIFOLD (236178-02)

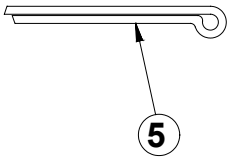


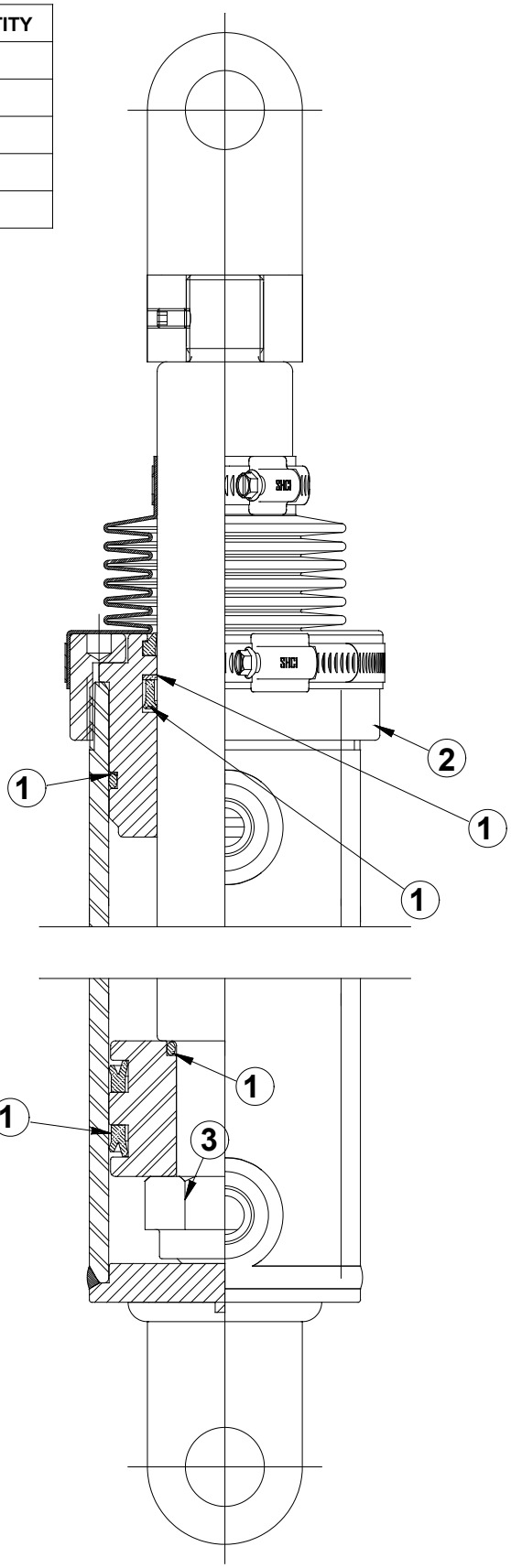
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	235754-01	MANIFOLD * FLOW GATES/ GEN 24V	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
3	89788-04	FIT ~ PLUG 10 SAE STEEL	2
4	84635-04	FIT * PLUG 6 SAE	2
5	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	2
6	146095	BOLT * HEX 3/8-16 X 5 1/2 GRADE 8	2
7	83757	WASHER ~ FLAT 3/8 STEEL	2
8	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
9	83055	NUT * 3/8-16 HEX GRADE 8	2

CYLINDER, FLOWGATE
(144894-01)

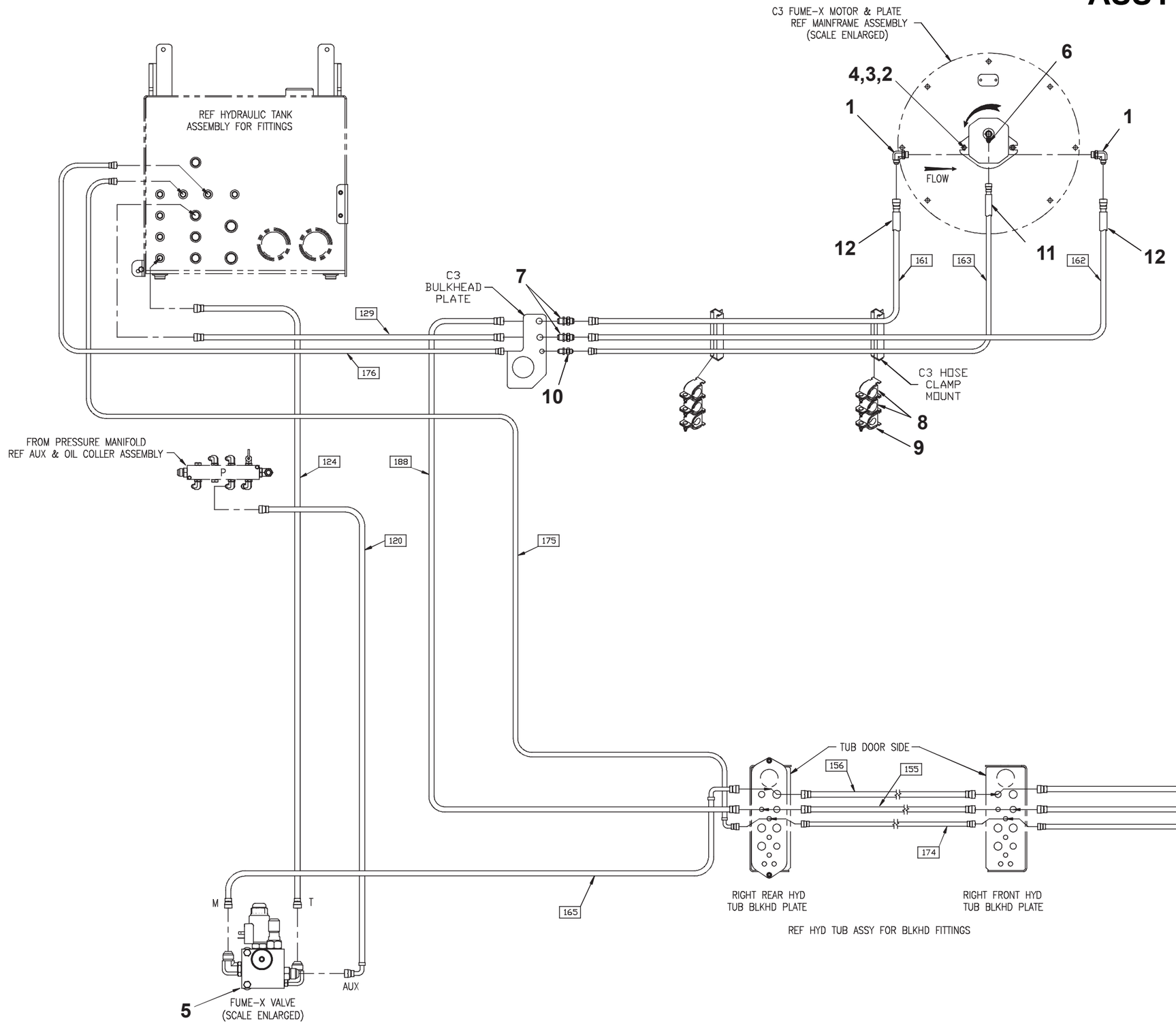
ITEM	ROADTEC PART NO.	DESCRIPTION	QUANTITY
1	144894-01-C1	SEAL KIT	1
2	125383-04-C2	HEADCAP	1
3	144894-01-C2	1-1/4" LOCK NUT	1
4	144894-01-C3	CLEVIS PIN	2
5	144993-04	COTTER PIN	2







ASSY- FUME CONTROL HYD'S.
(255661-01)

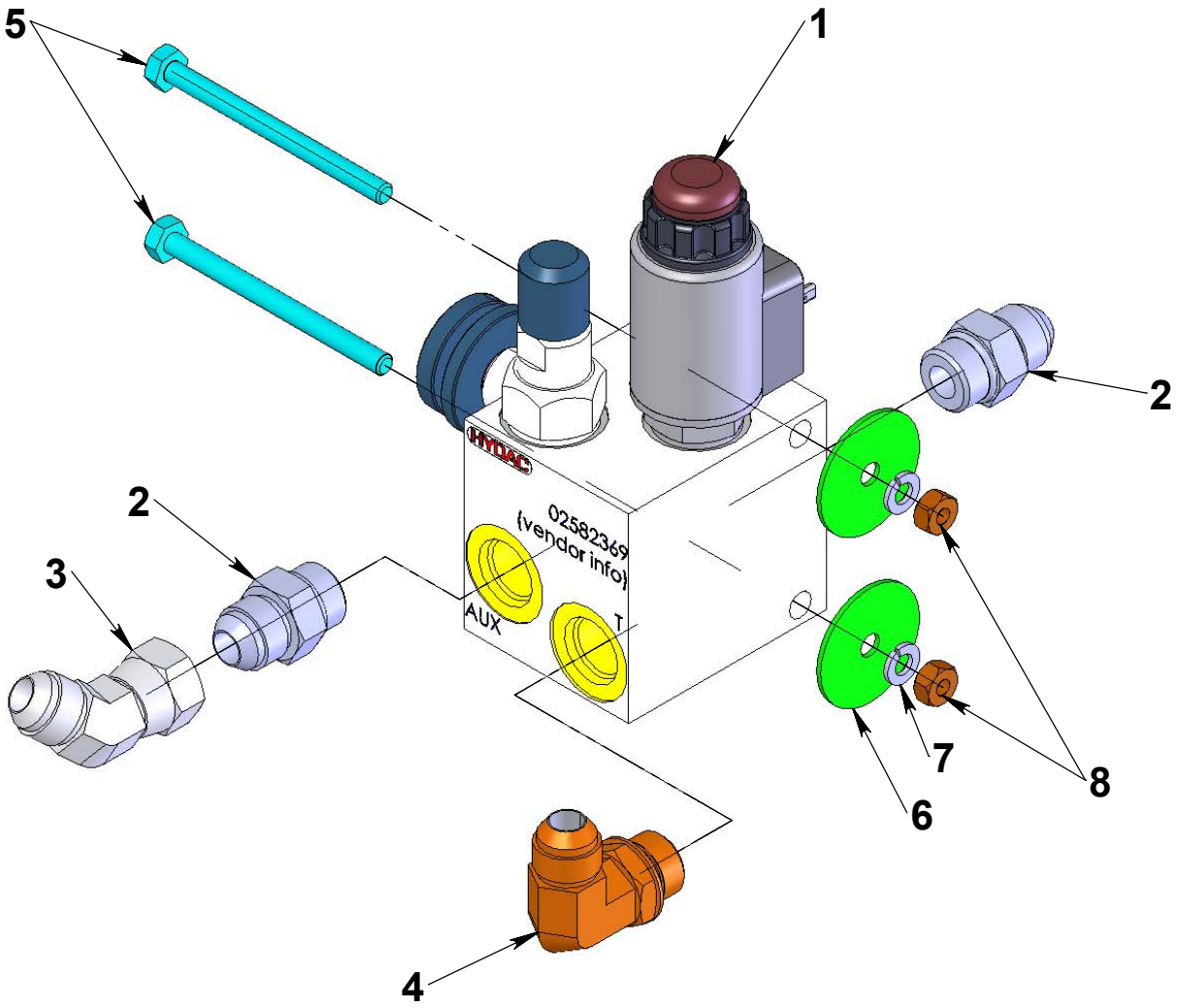


ITEM	IDENT	DESCRIPTION	QTY
1	123831	FIT * 8 JIC M X 10 SAE 90 DEG	4
2	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
3	83757	WASHER ~ 3/8 FLAT (STEEL)	8
4	93175	NUT * 3/8"-16 UNC JAM	4
5	236180-03	ASSEMBLY-FUME EXTRACTION MANIFOLD	1
6	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	2
7	83453-04	FIT * UNION 8 JIC BULKHEAD STEEL	2
8	14T29	CLAMP * CUSHION CLAMP 3/4 OD TUBE	4
9	237281-04	CLAMP*MOUNTING FOR 11/16" OD HOSE	2
10	83475-04	FIT * BULKHEAD UNION 6 JIC ST	1
11	206126-04	INSULATION PS-B-13-0.86 NYLON HOSE SLEEVE X 48"	1
12	147462-04	INSULATION PS-B-15-1.06 NYLON HOSE SLEEVE X 48"	2
13	83704-04	FIT * CONNECTOR 8 JIC - 10 SAE MALE	1

LEGEND
(XX) – ITEM
[XX] – HOSE NUMBER
XX – MANIFOLD PORT

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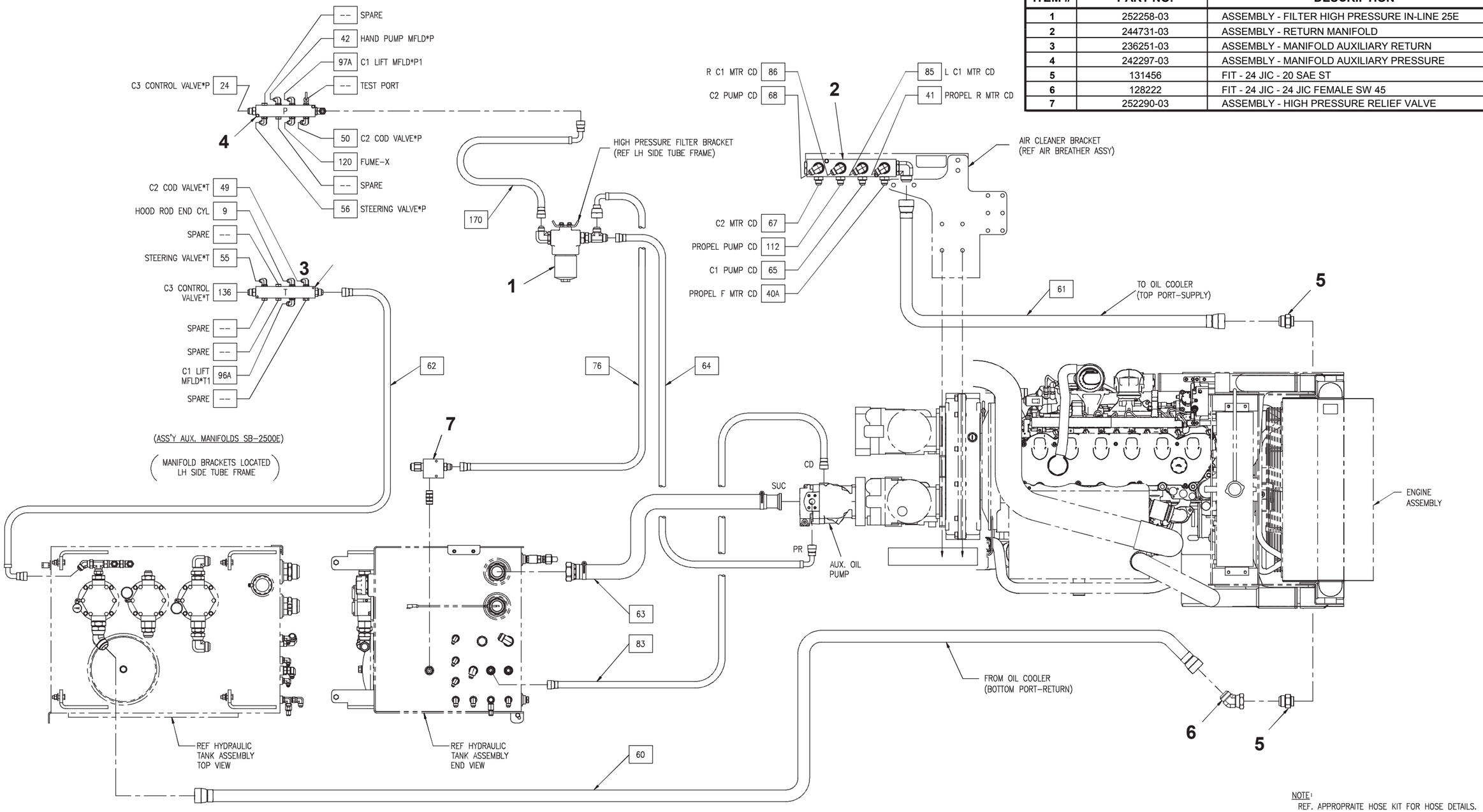
ASSEMBLY-FUME EXTRACTION MANIFOLD (236180-03)



ITEM #	PART #	DESCRIPTION	QTY
1	235756-01	MANIFOLD * FXS 24V	1
2	83459-04	FIT ~ CONNECTOR 8 JIC x 8 SAE MALE	2
3	85218-04	FIT * ELBOW SWIVEL 8 JIC 45 DEG.	1
4	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	1
5	26L56	BOLT * HEX 1/4"-20 X 3 1/4"	2
6	120206	WASHER * FENDER 1/4"	2
7	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
8	89772	NUT * 1/4"-20 HEX GRADE 8	2

ASSY- AUX. & OIL COOLER HYDRAULICS
(252259-01)

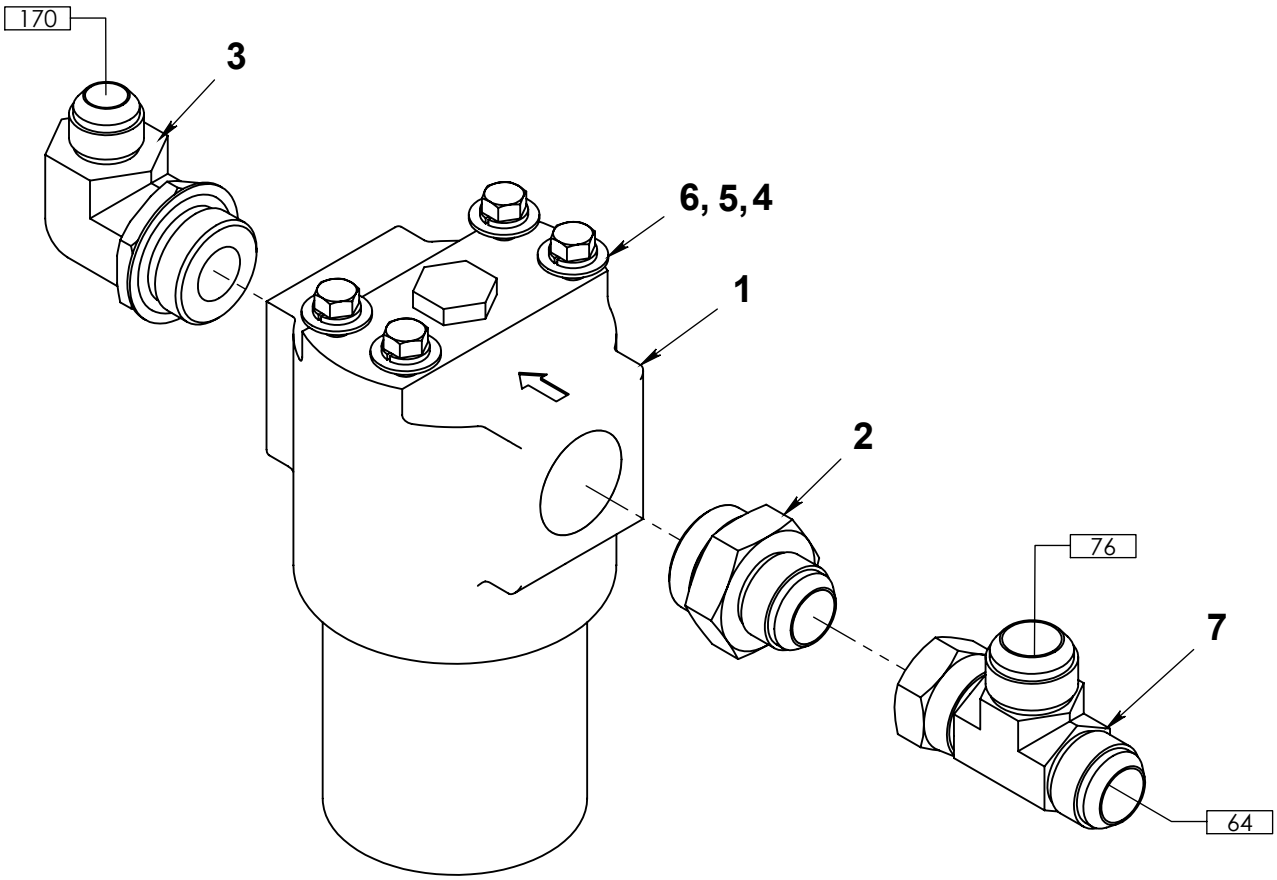
ITEM #	PART NO.	DESCRIPTION	QTY.
1	252258-03	ASSEMBLY - FILTER HIGH PRESSURE IN-LINE 25E	1
2	244731-03	ASSEMBLY - RETURN MANIFOLD	1
3	236251-03	ASSEMBLY - MANIFOLD AUXILIARY RETURN	1
4	242297-03	ASSEMBLY - MANIFOLD AUXILIARY PRESSURE	1
5	131456	FIT - 24 JIC - 20 SAE ST	2
6	128222	FIT - 24 JIC - 24 JIC FEMALE SW 45	1
7	252290-03	ASSEMBLY - HIGH PRESSURE RELIEF VALVE	1



NOTE:
REF. APPROPRAITE HOSE KIT FOR HOSE DETAILS.

ROADTEC an Astec Industries Company

ASSY- FILTER, HI-PRESSURE IN-LINE
(252258-03)



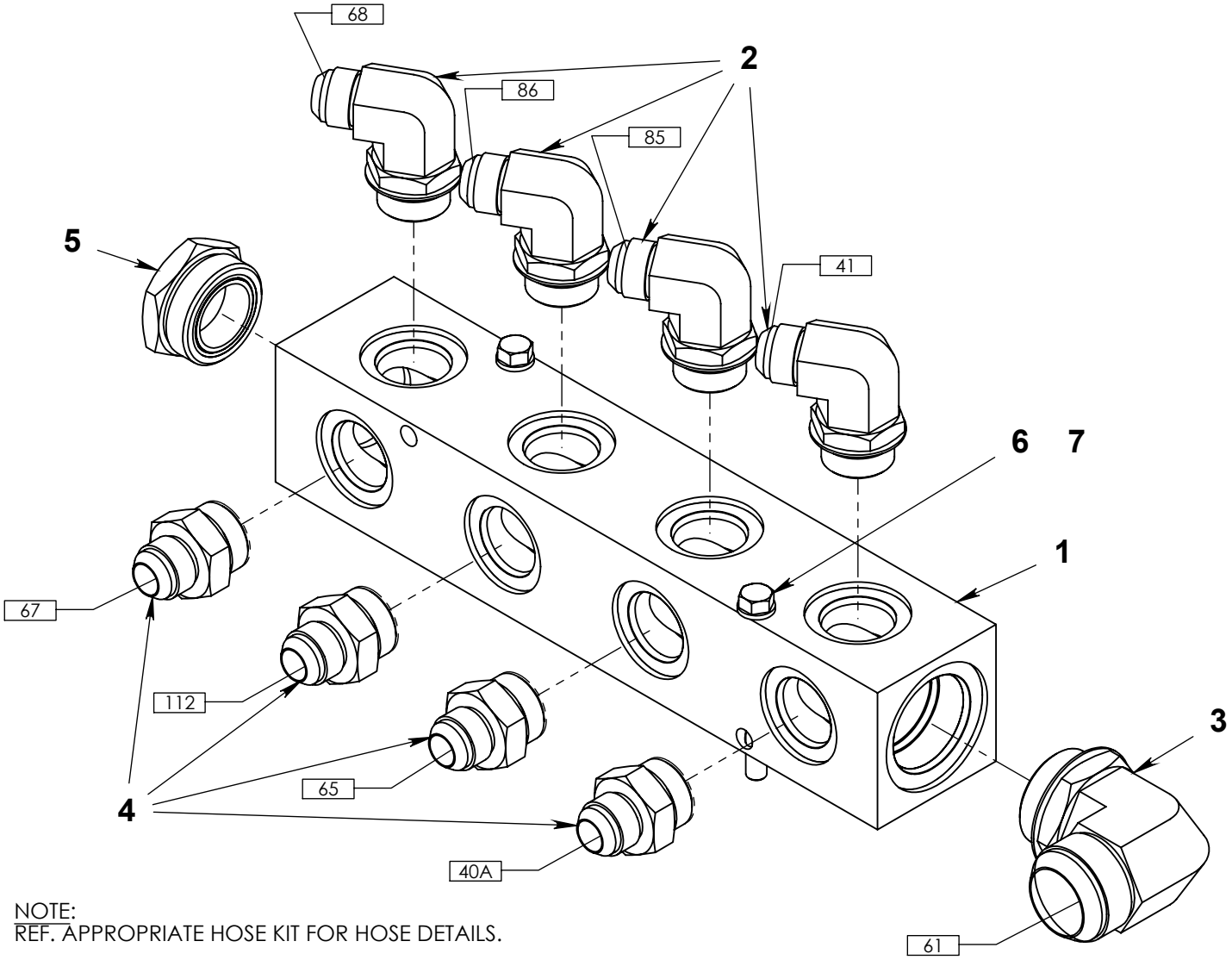
NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

[XX] - HOSE NUMBER

ITEM#	PART #	DESCRIPTION	QTY.
1	142799-03	FILTER ~ HIGH PRESSURE IN-LINE	1
2	84632-04	FIT * CONNECTOR 16 JIC - 20 SAE M.	1
3	142927	FIT ~ 12 JIC - 20 SAE 90 DEG.ELBOW	1
4	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
5	142926	BOLT * HEX 3/8-24 X 1 GD.8	4
6	83757	WASHER ~ FLAT 3/8 STEEL	4
7	98118	FIT * SWIVEL RUN TEE 16 JIC	1

ASSEMBLY- RETURN FILTER
(244731-03)



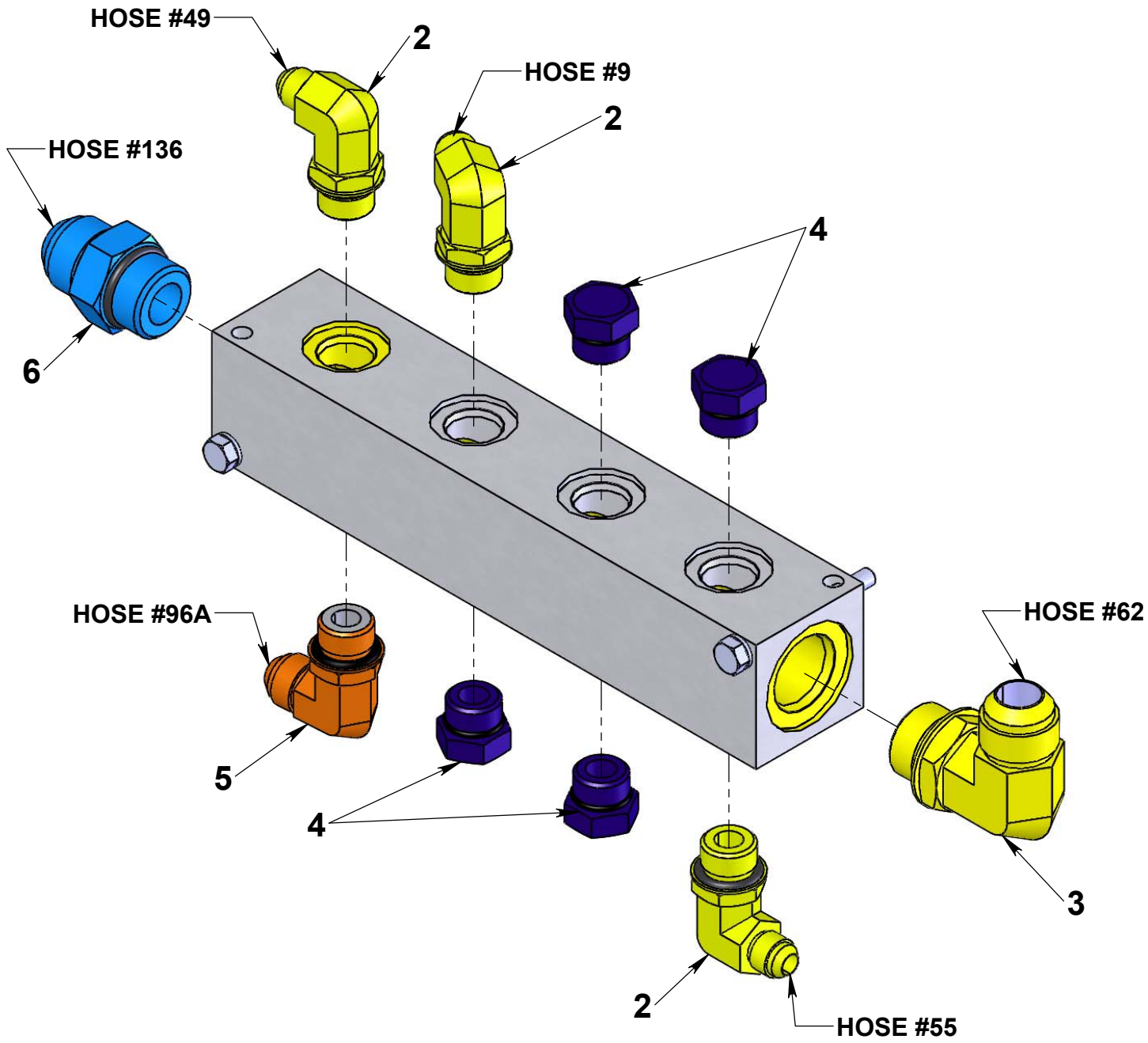
NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

[XX] - HOSE NUMBER

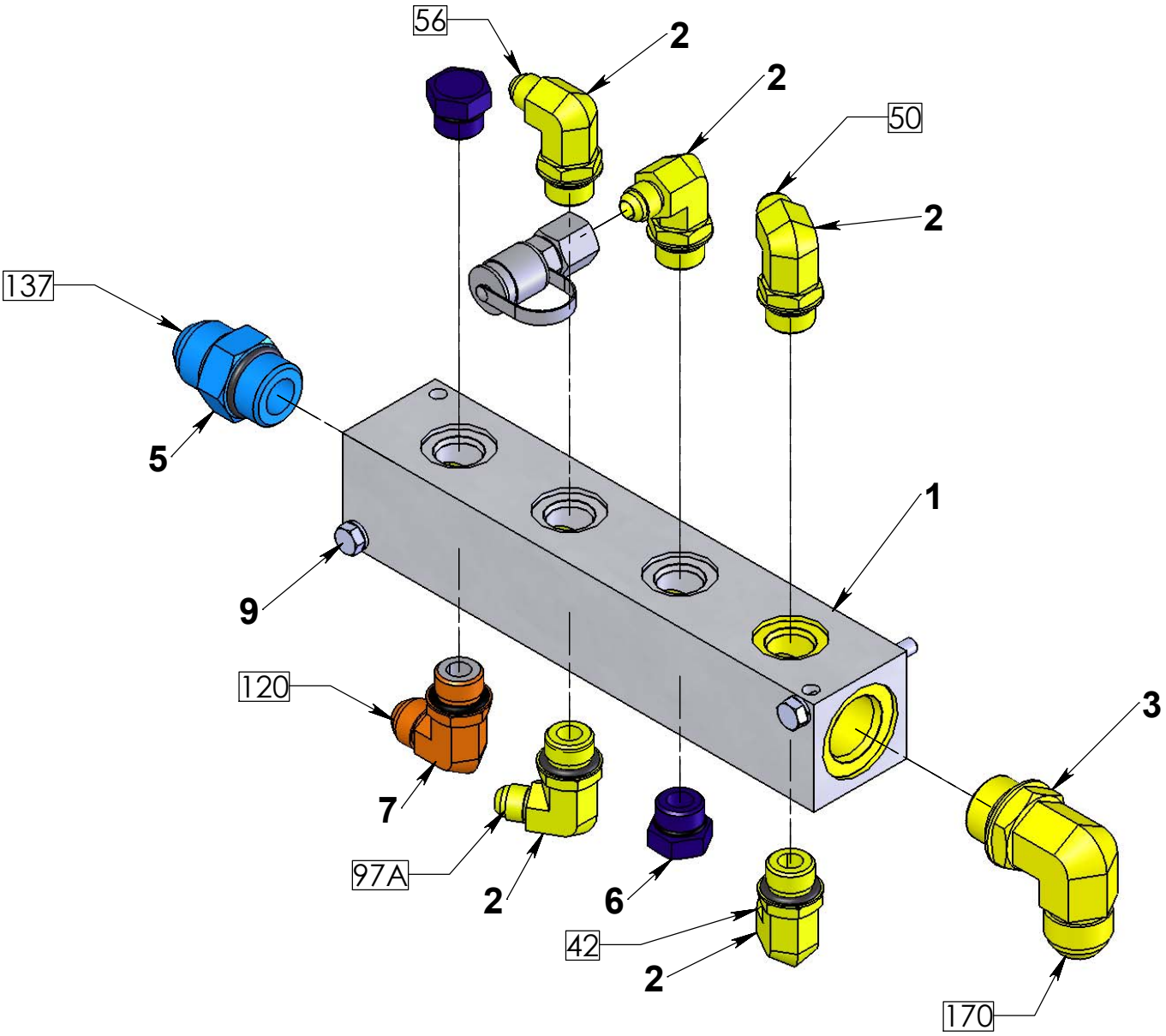
ITEM #	PART #	DESCRIPTION	QTY.
1	238594-03	MANIFOLD *90° HEADER (16 SAE PORTS)	1
2	85875-04	FIT * ELBOW 12 JIC M - 16 SAE 90	4
3	130099	FITTING * 24 JIC - 24 SAE 90 ELBOW	1
4	85874-04	FIT * CONNECTOR 12 JIC - 16 SAE M.	4
5	201954	FITTG * 24 SAE PLUG	1
6	12D09	BOLT * HEX 3/8"-16 X 3 3/4"	2
7	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2

ASSEMBLY-MANIFOLD AUX. RETURN (236251-03)



ITEM #	PART #	DESCRIPTION	QTY
1	206522-03	180 DEGREE MANIFOLD BLOCK	1
2	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	3
3	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
4	83767-04	FIT ~ PLUG 8 SAE	4
5	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	1
6	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1
7	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
8	85563-04	BOLT * HEX 1/4"-20 X 2 1/2"	2

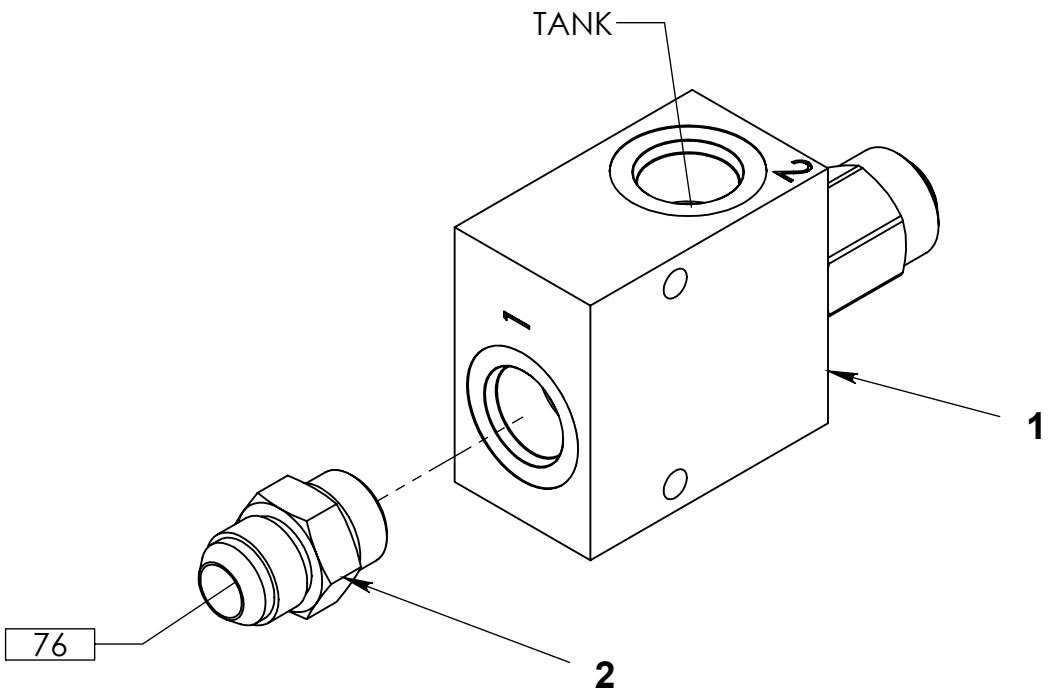
ASSEMBLY-MANIFOLD AUX. PRESSURE (242297-03)



XX **HOSE NUMBER**

ITEM #	PART #	DESCRIPTION	QTY
1	206522-03	180 DEGREE MANIFOLD BLOCK	1
2	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	5
3	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
4	140303-04	FIT * TEST PORT 9KPSI #6 JIC FS	1
5	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1
6	83767-04	FIT ~ PLUG 8 SAE	2
7	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	1
8	83065	WASHER * LOCK 1/4" SPRING STEEL	2
9	85563-04	BOLT * HEX 1/4"-20 X 2 1/2"	2

ASSEMBLY- VALVE, HI-PRESSURE RELIEF
(252290-03)



NOTE:

REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

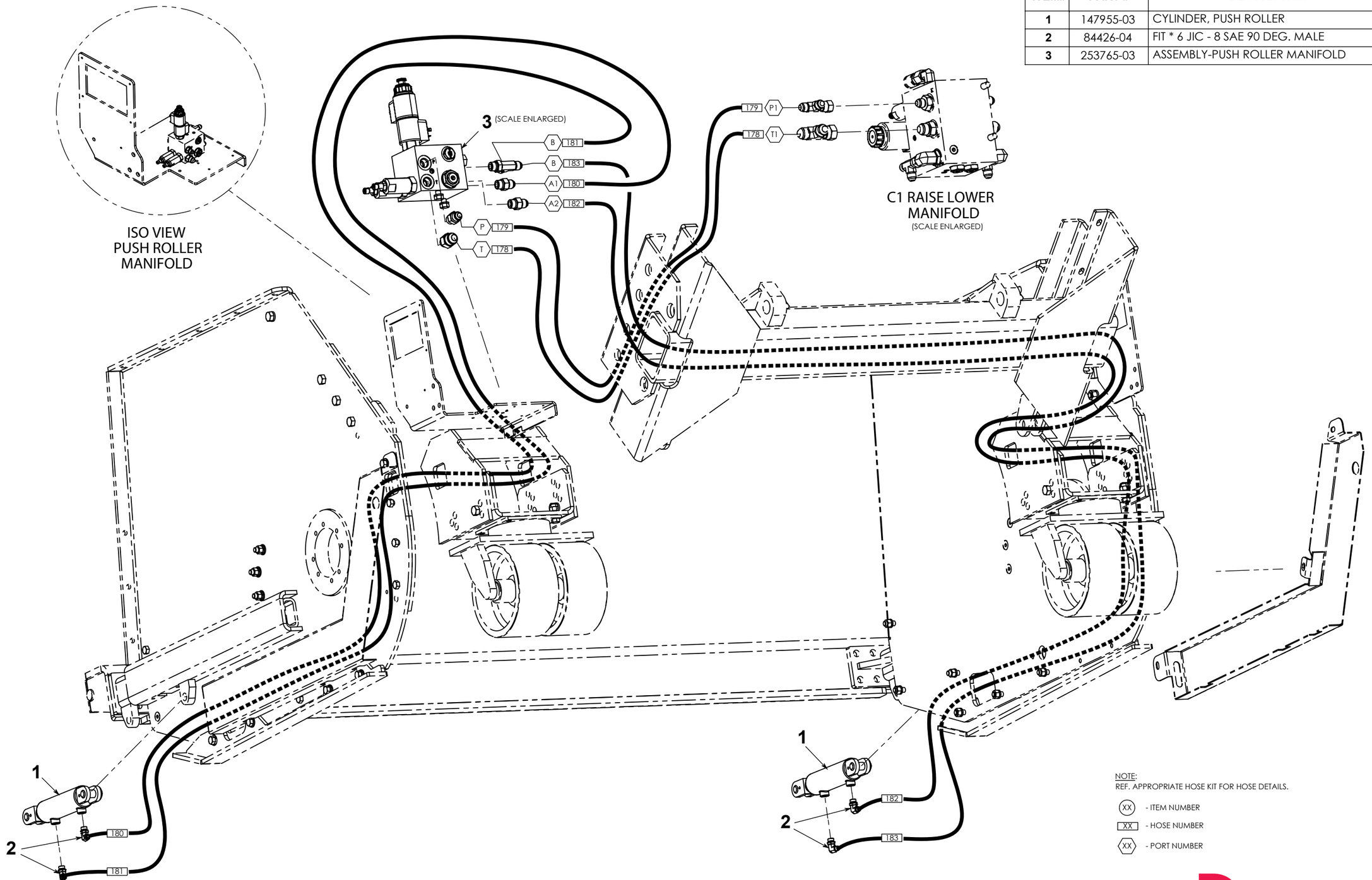
(XX) - ITEM

[XX] - HOSE NUMBER

ITEM#	PART #	DESCRIPTION	QTY.
1	252085-03	VALVE - #12 PILOT OPER RELIEF	1
2	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1

ASSY- PUSH ROLLER HYDRAULICS
(253764-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	147955-03	CYLINDER, PUSH ROLLER	2
2	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	4
3	253765-03	ASSEMBLY-PUSH ROLLER MANIFOLD	1



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

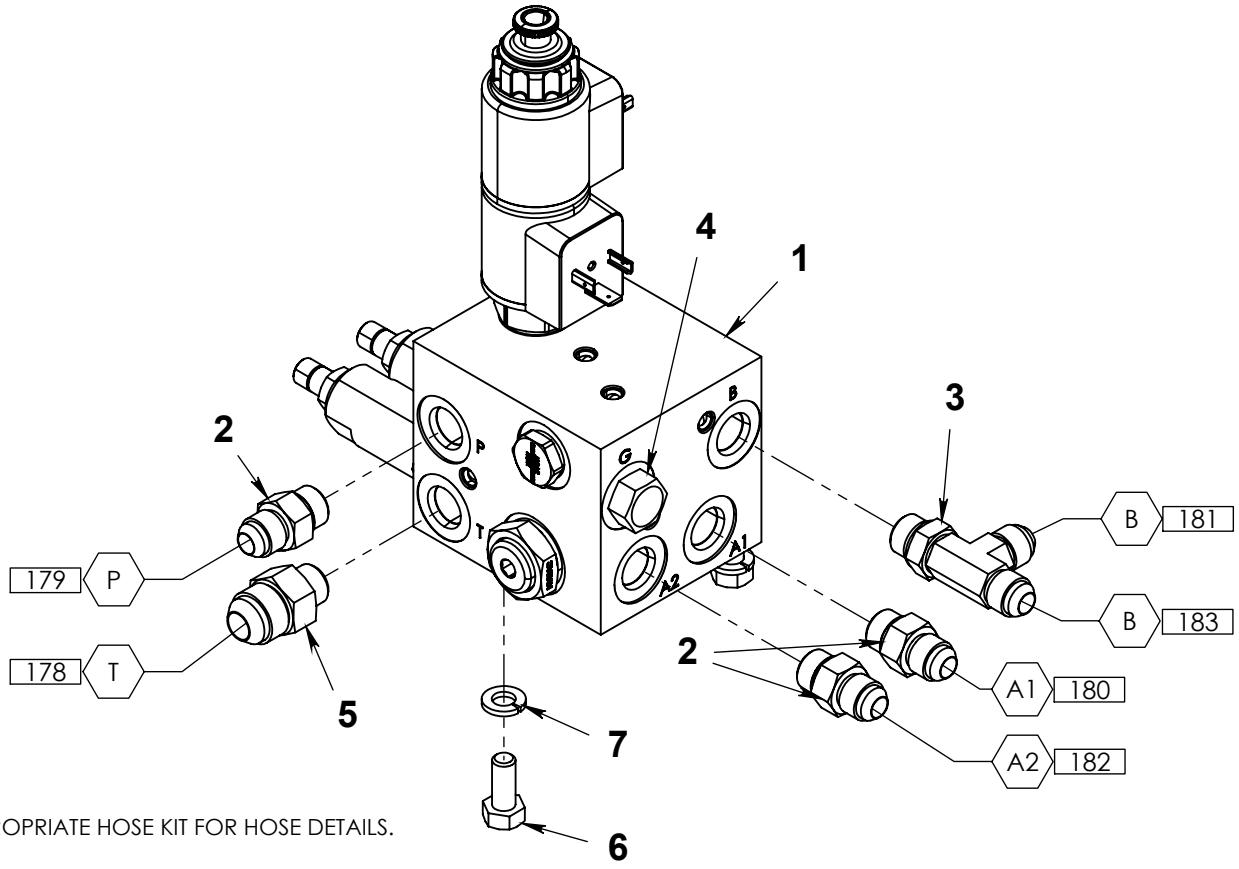
(XX) - ITEM NUMBER

[XX] - HOSE NUMBER

⟨XX⟩ - PORT NUMBER

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ASSY- MANIFOLD, PUSH ROLLER
(253765-03)



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

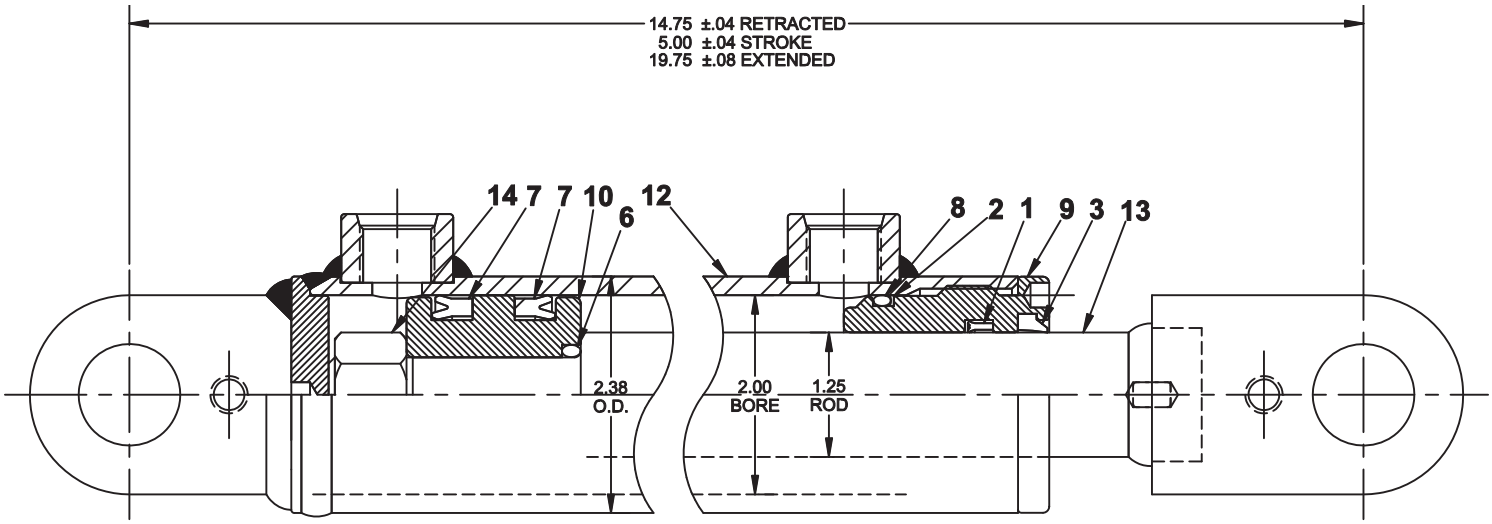
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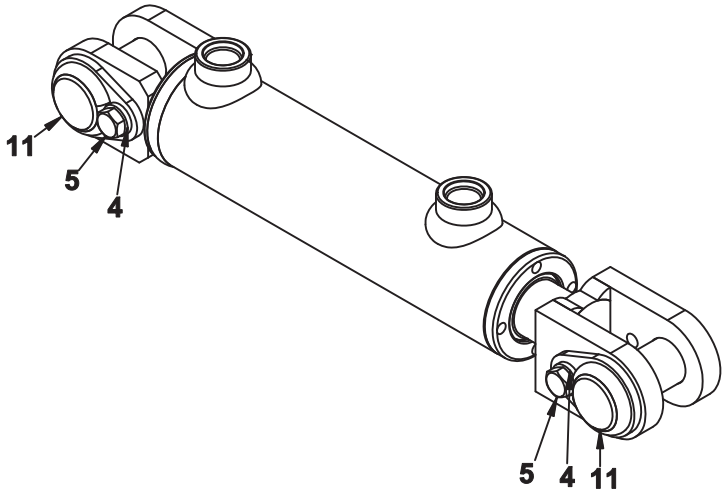
[XX] - HOSE NUMBER

<XX> - PORT NUMBER

ITEM #	PART #	DESCRIPTION	QTY.
1	253549-01	MANIFOLD * C1 PUSH ROLLER	1
2	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	3
3	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
4	84635-04	FIT * PLUG 6 SAE	3
5	83462-04	FIT * CONNECTOR 8 JIC - 6 SAE MALE	1
6	87329-04	BOLT ~ HEX 5/16"-18 x 3/4"	2
7	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	2

CYLINDER, PUSH ROLLER
(147955-03)

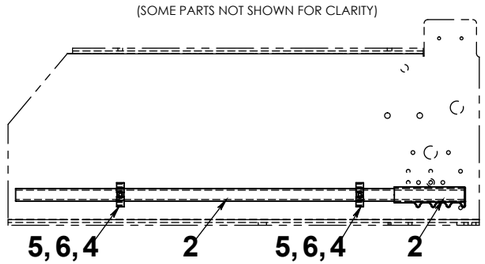


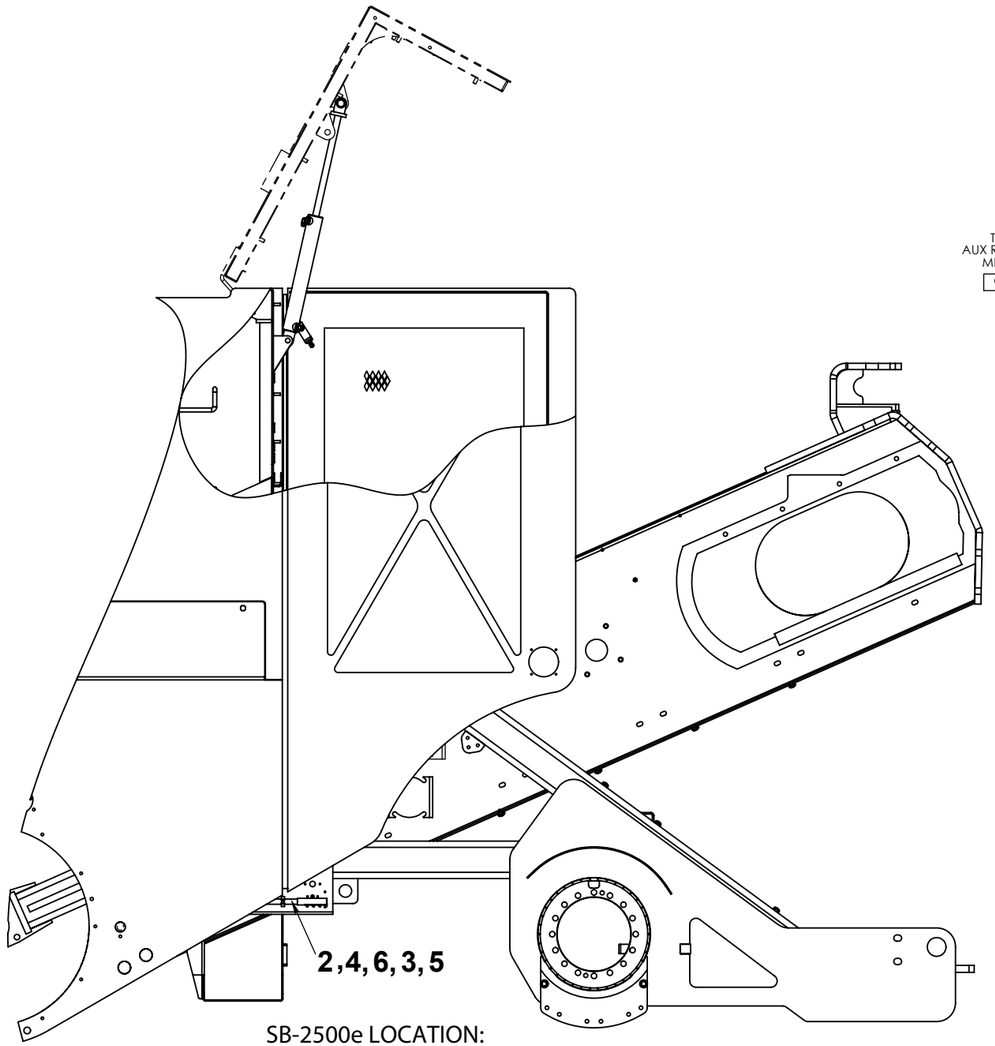


ITEM #	PART NO.	DESCRIPTION	QTY.
1	147955-03-C8	POLY PAK	1
2	147955-03-C9	BACK UP	1
3	147955-03-C10	WIPER	1
4	147955-03-C11	LOCK WASHER	2
5	147955-03-C12	HEX BOLT	2
6	147955-03-C13	O-RING	1
7	147955-03-C14	U-CUP	2
8	147955-03-C15	O-RING	1
9	147955-03-C2	HEAD	1
10	147955-03-C3	PISTON	1
11	147955-03-C4	CLEVIS PIN	2
12	147955-03-C5	TUBE	1
13	147955-03-C6	ROD	1
14	147955-03-C7	LOCK NUT	1
15	147955-03-C1	SEAL KIT	

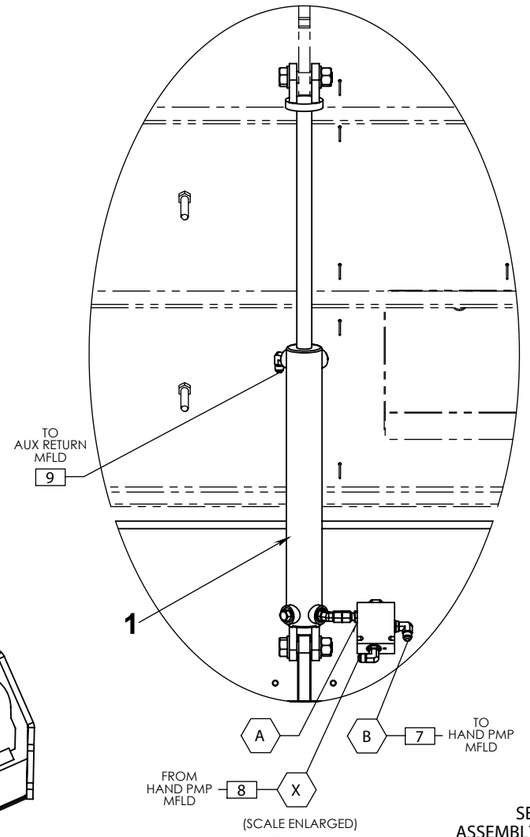
ASSY- HOOD RAISE HYDRAULICS
(253954-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	254102-02	ASSEMBLY-HOOD RAISE/LOWER CYLINDER	1
2	201315-03	DETAIL-HAND PUMP HANDLE	1
3	201253-04	GRIP * ROUND VINYL GRIP	1
4	98296-C1	KIT * CLIP	2
5	83114	BOLT * HEX 1/4"-20 X 1/2"	2
6	83065	WASHER * LOCK 1/4" SPRING STEEL	2



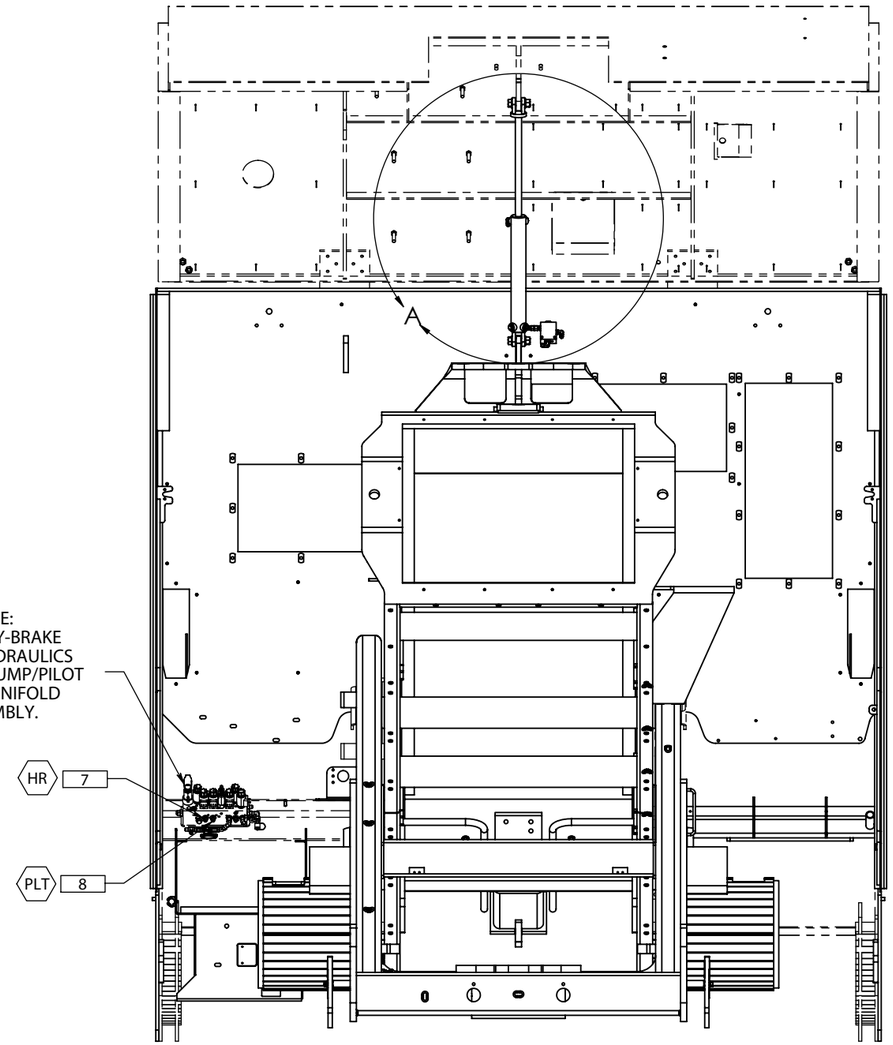


SB-2500e LOCATION:
BATTERY BOX



(SCALE ENLARGED)
DETAIL A

SEE:
ASSEMBLY-BRAKE
CIRCUIT HYDRAULICS
FOR HAND PUMP/PILOT
VALVE MANIFOLD
ASSEMBLY.



NOTE: REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

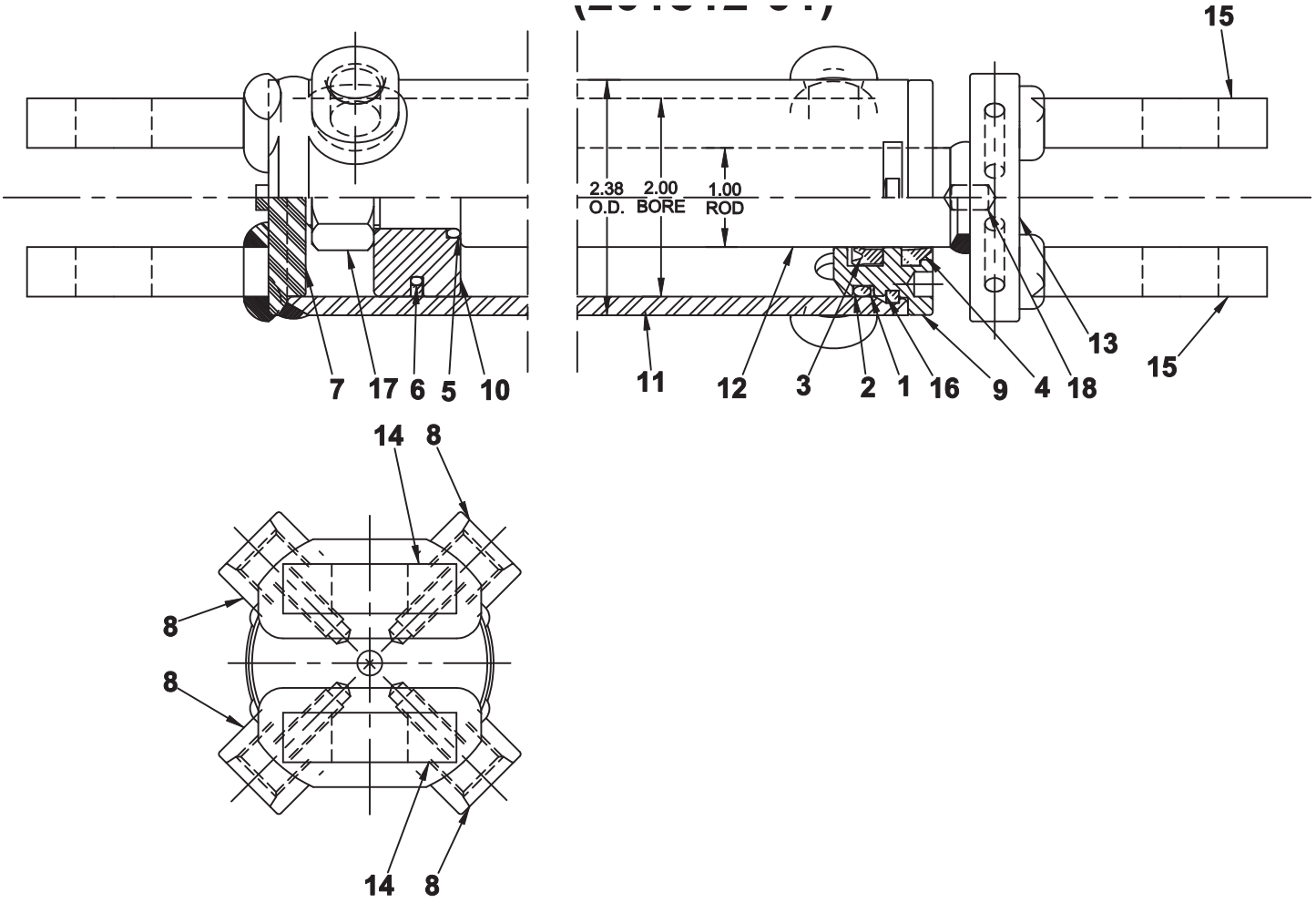
(XX) - ITEM

[XX] - HOSE NUMBER

<XX> - MANIFOLD PORT

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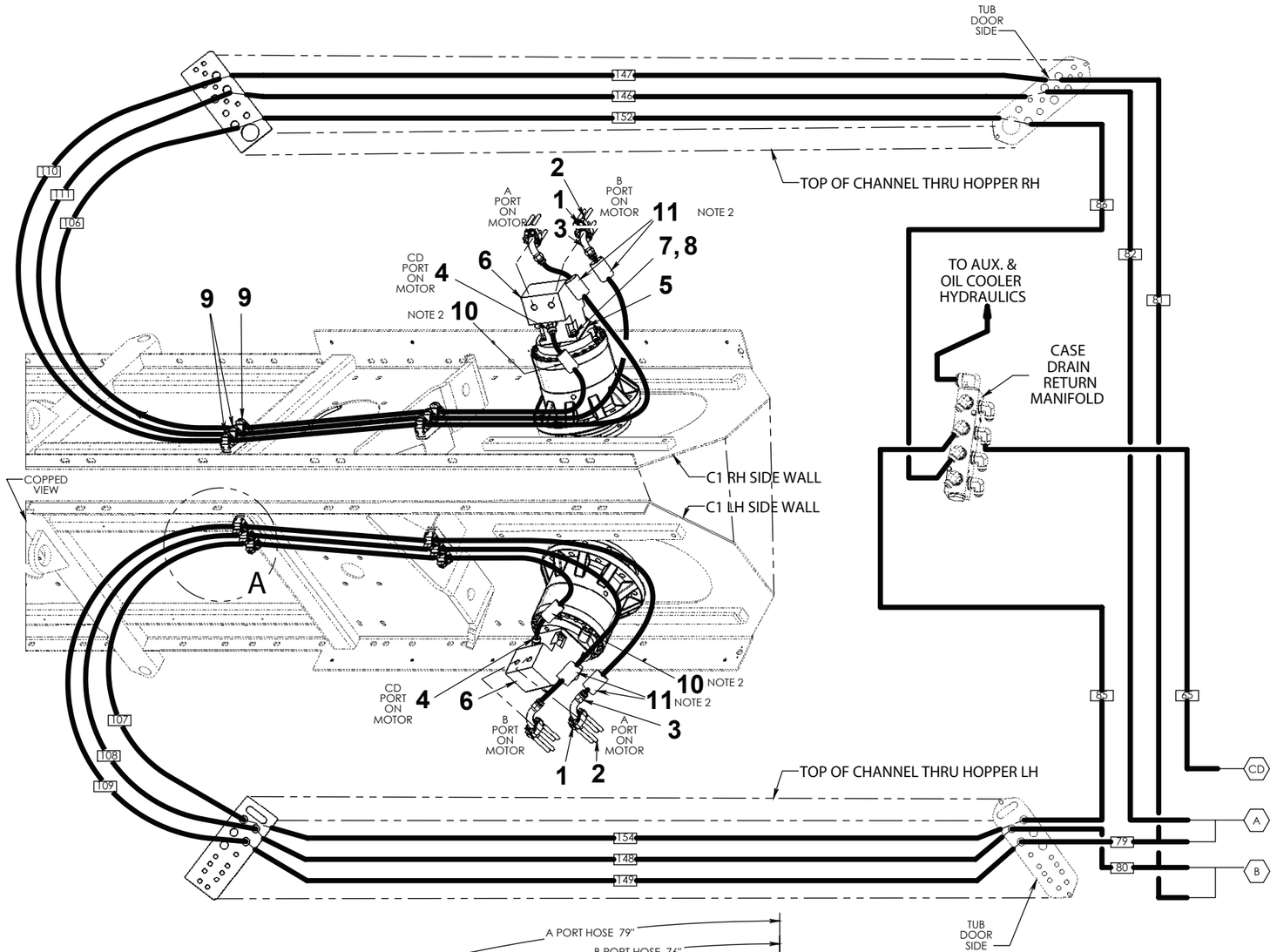
CYLINDER, HOOD RAISE
(201812-01)



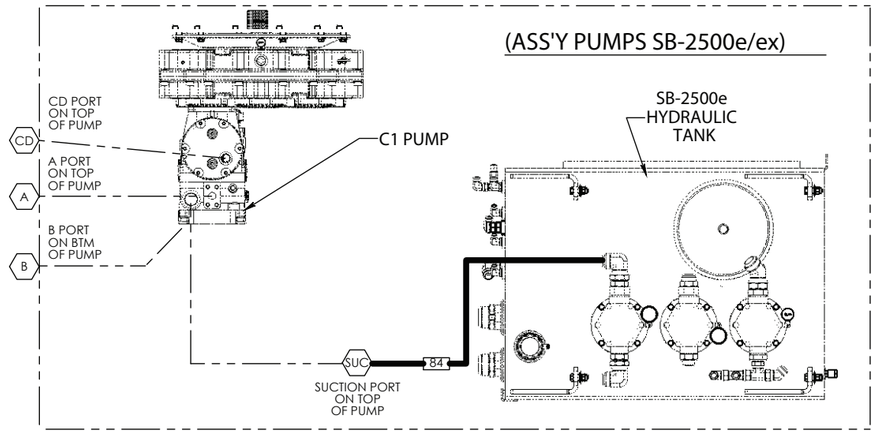
ITEM #	PART NO.	DESCRIPTION	QTY.
1	201812-01-C14	BACK-UP	1
2	201812-01-C15	O-RING	1
3	201812-01-C16	U-CUP	1
4	201812-01-C17	WIPER	1
5	201812-01-C18	O-RING	1
6	201812-01-C19	PISTON SEAL	1
7	201812-01-C2	BASE PLATE	1
8	201812-01-C3	PORT	4
9	201812-01-C4	HEAD	1
10	201812-01-C5	PISTON	1
11	201812-01-C6	TUBE	1
12	201812-01-C7	ROD	1
13	201812-01-C8	CLEVIS BASE	1
14	201812-01-C9	LUG	2
15	201812-01-C10	LUG	2
16	201812-01-C11	RETAINER RING	1
17	201812-01-C12	LOCKNUT	1
18	201812-01-C13	DOWEL PIN	1
19	201812-01-C1	SEAL KIT	1
20			

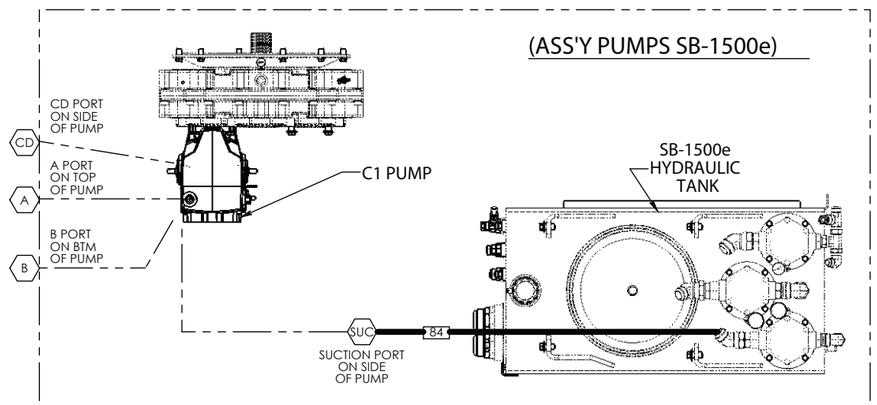
ASSY- C1 DRIVE HYDRAULICS
(255659-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	86076-04	KIT * FLANGE #12 CODE 62	4
2	89986-04	BOLT * HEX 3/8"-16 X 4 1/2"	16
3	83890-04	FIT * 12 JIC-12 FLG 90 CODE 62	4
4	120439	FIT * 12 JIC X 10 SAE 45 DEG	2
5	130086-C1	GASKET * FOR AUSCO BRAKE	2
6	142642-04	HYD-MOTOR - 60cc W/ CROSS PORT RELIEF	2
7	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	8
8	05707	WASHER ~ CONICAL HS12 6796 STEEL	8
9	149015	CLAMP * MOUNTING FOR 1 1/8" OD. HOSE	12
10	232004-01-11	INSULATION, 1 7/16" I.D. HOSE SLEEVE, Nylon X 48"	2
11	232004-01-12	INSULATION, 1 13/16" I.D. HOSE SLEEVE, Nylon X 48"	4



DETAIL VIEW A





XX - ITEM

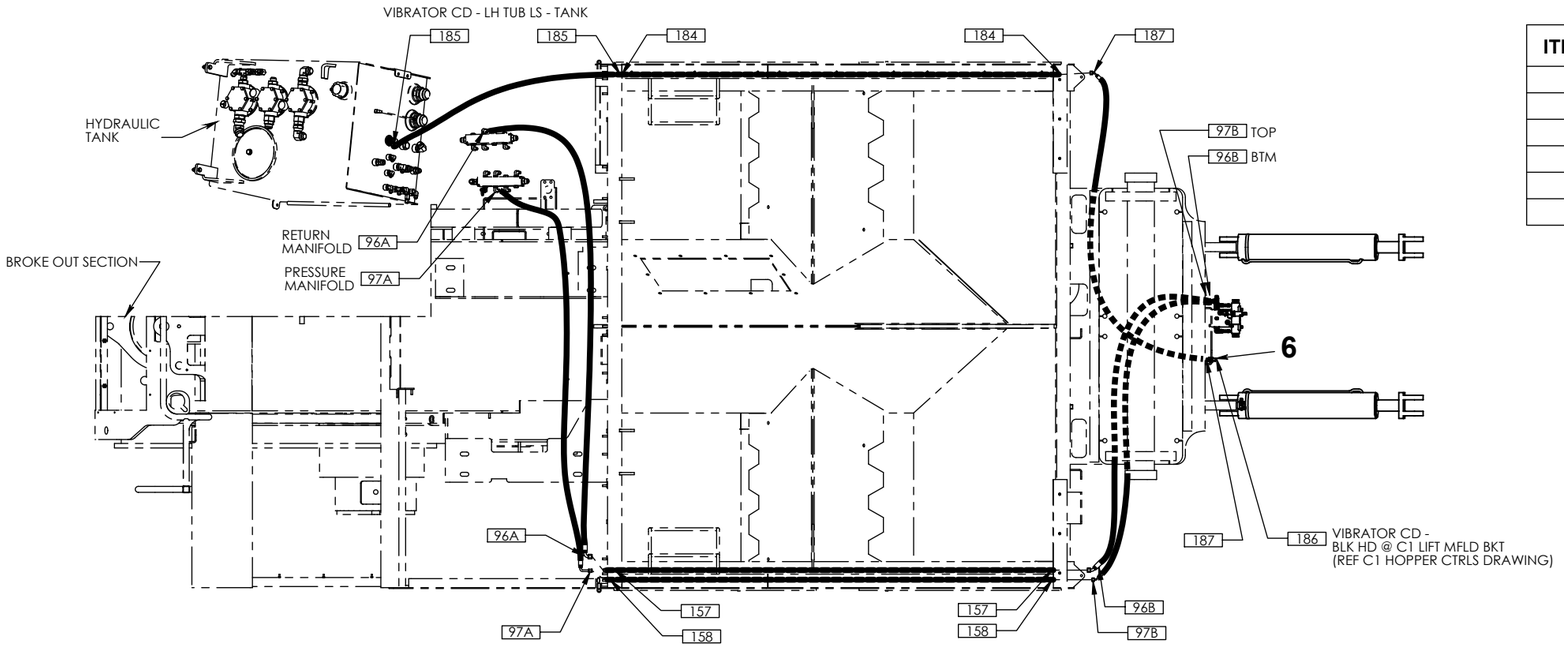
XX - HOSE NUMBER

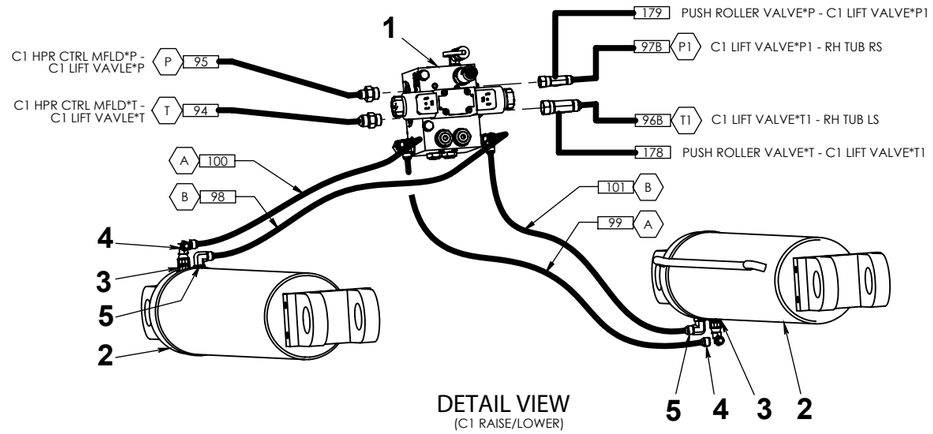
XX - MANIFOLD PORT

ROADTEC an Astec Industries Company

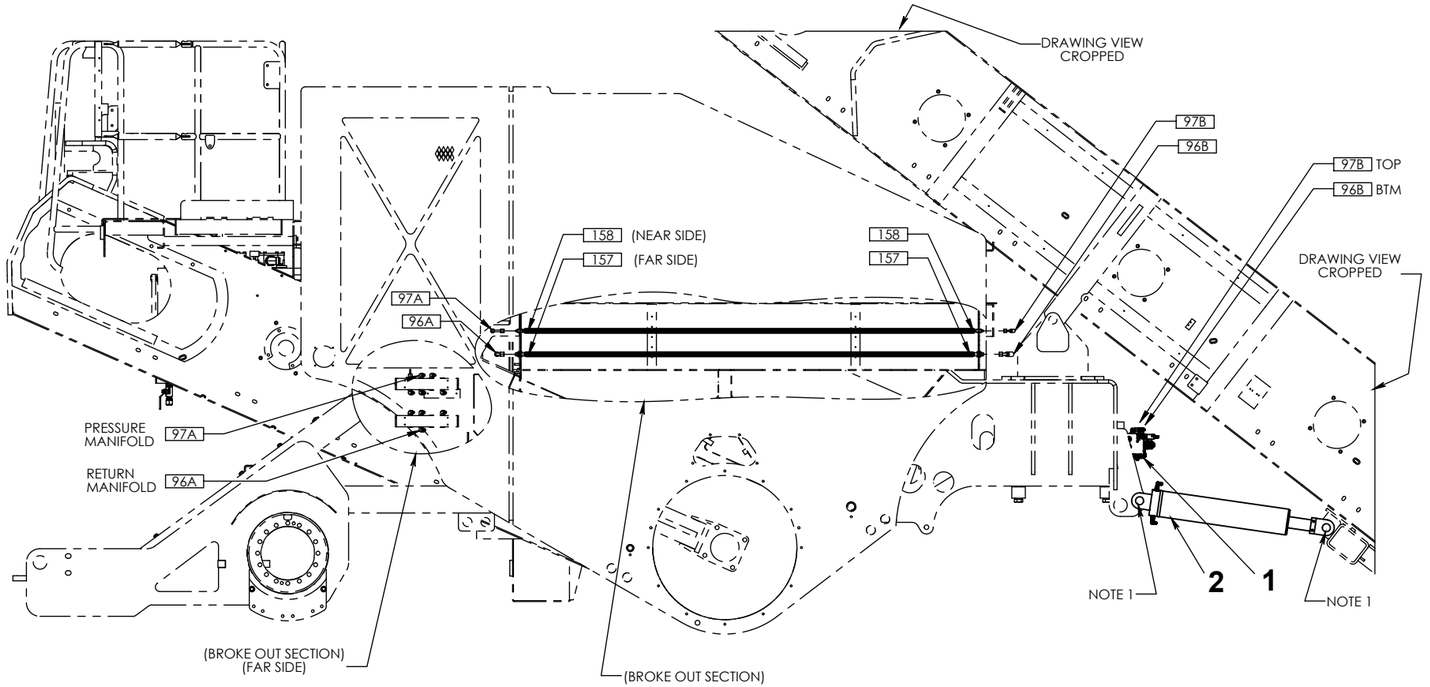
ASSY- C1 RAISE/LOWER HYDS.
(255660-01)

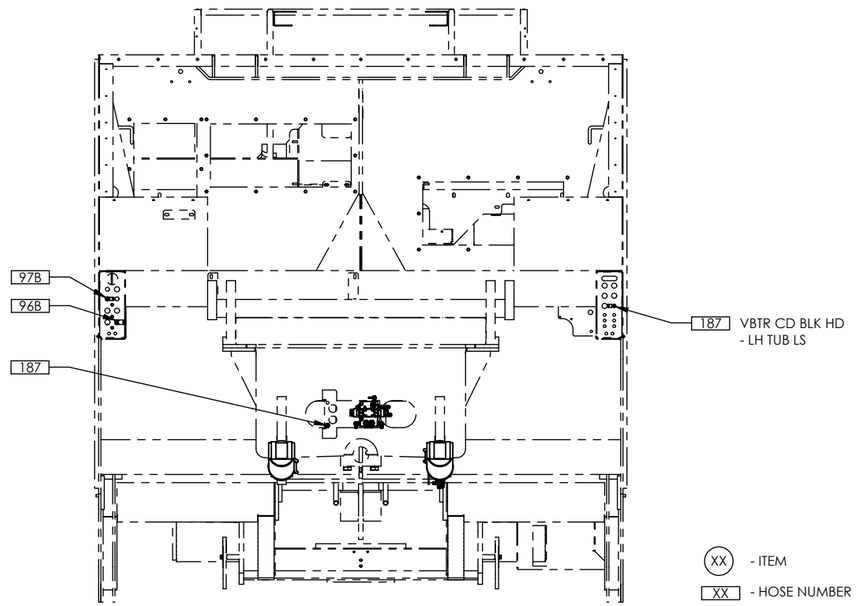
ITEM#	PART #	DESCRIPTION	QTY.
1	242500-03	ASSEMBLY-C1 RAISE/LOWER MANIFOLD	1
2	207380-01	CYLINDER, C-1 RAISE & LOWER	2
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
4	83953-04	FIT ~ FM SWIVEL ELBOW 6 JIC 90 DEG.	2
5	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	2
6	83475-04	FIT * BULKHEAD UNION 6 JIC ST	1





DETAIL VIEW
(C1 RAISE/LOWER)



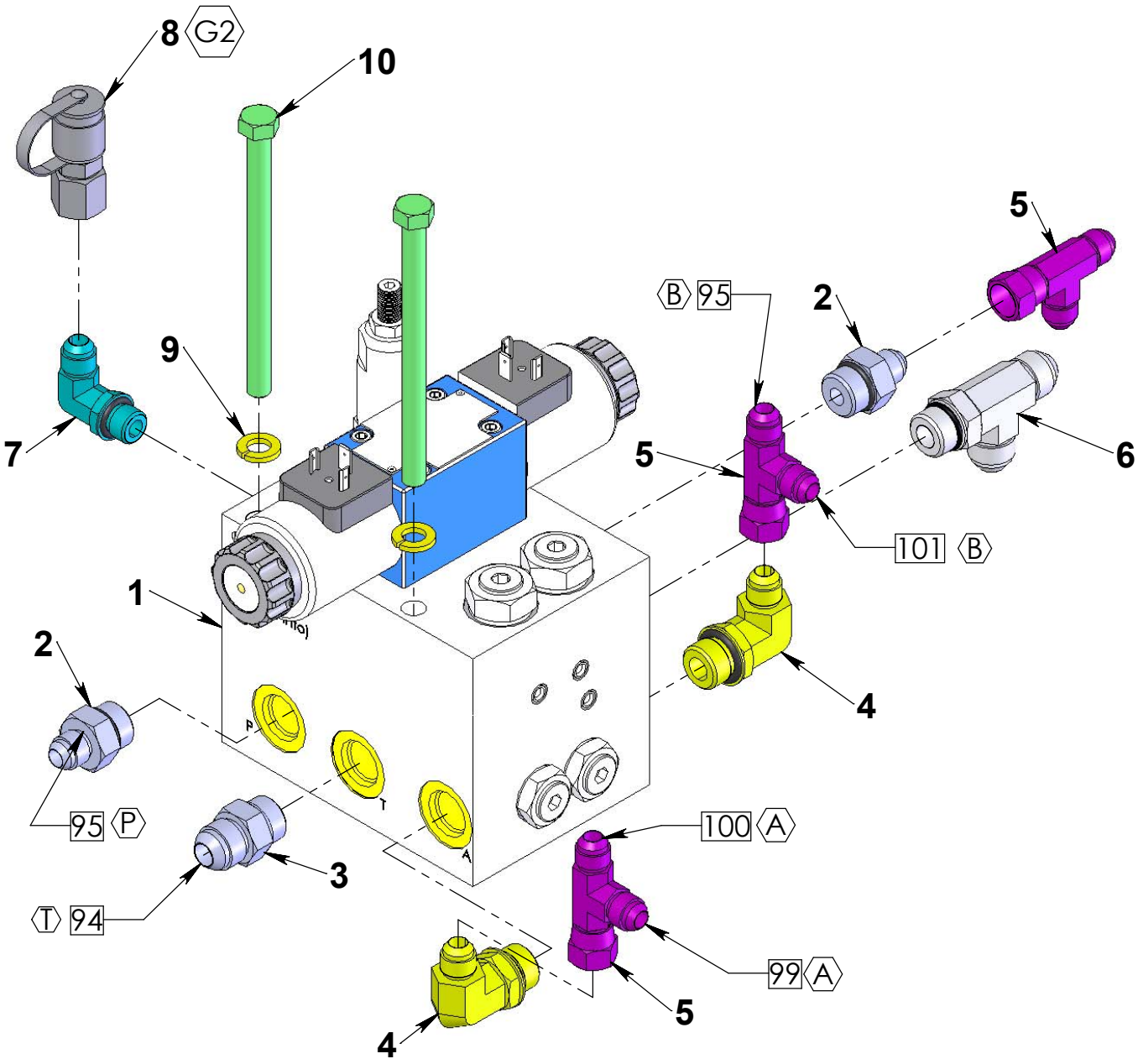


(SOME PARTS NOT SHOWN FOR CLARITY)

(XX) - ITEM
[XX] - HOSE NUMBER
<XX> - MANIFOLD PORT

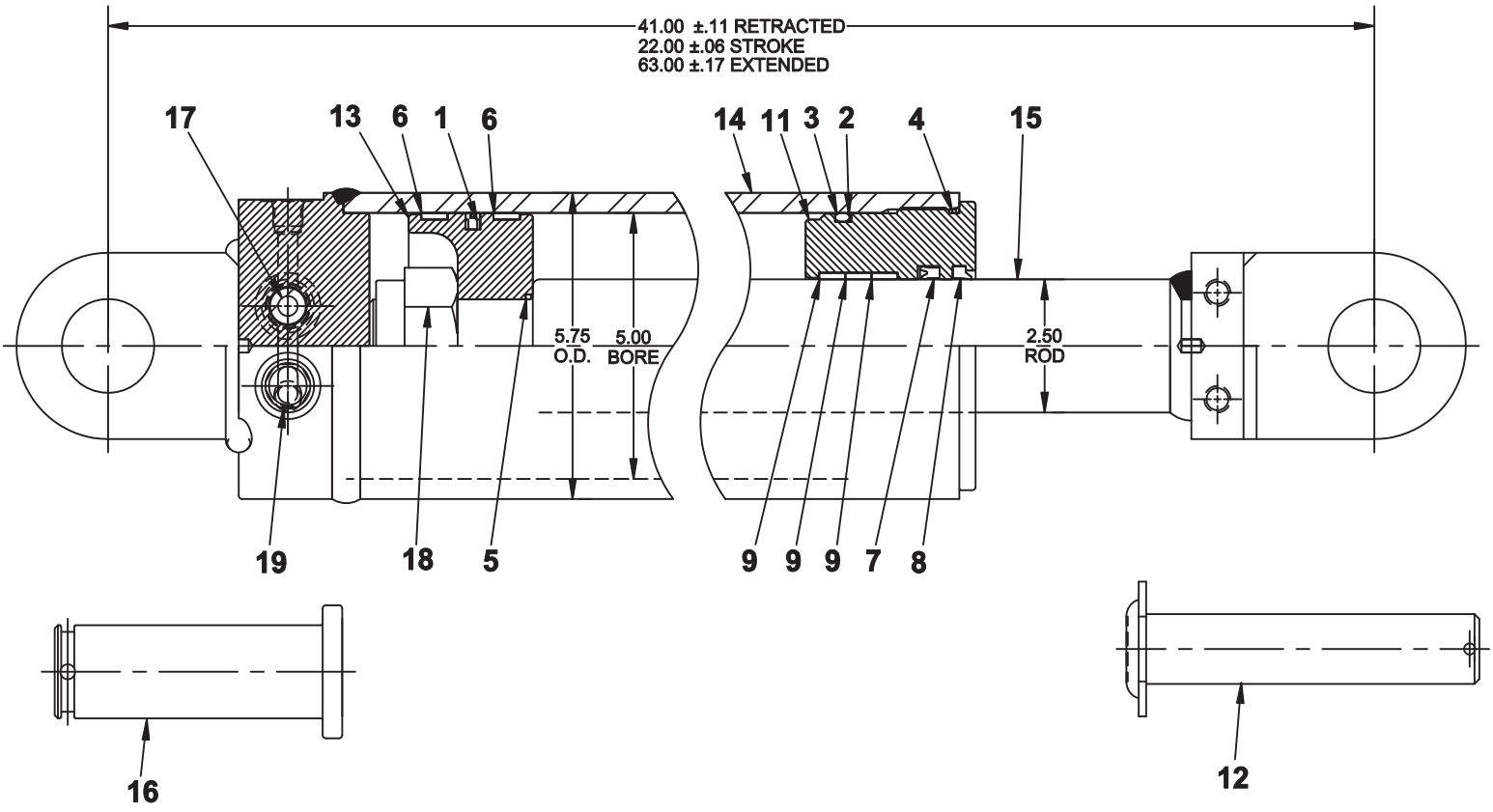
ROADTEC an Astec Industries Company

ASSEMBLY-C1 RAISE/LOWER MANIFOLD (242500-03)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	235753-01	MANIFOLD - C1 RAISE/LOWER 24V	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	2
3	83459-04	FIT ~ CONNECTOR 8 JIC x 8 SAE MALE	1
4	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	2
5	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	3
6	83766-04	FIT * RUN TEE 8 JIC - 8 SAE MALE	1
7	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	1
8	140303-04	FIT * TEST PORT 9KPSI #6 JIC FS	1
9	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
10	20N62	BOLT * HEX 3/8"-16 X 5"	2

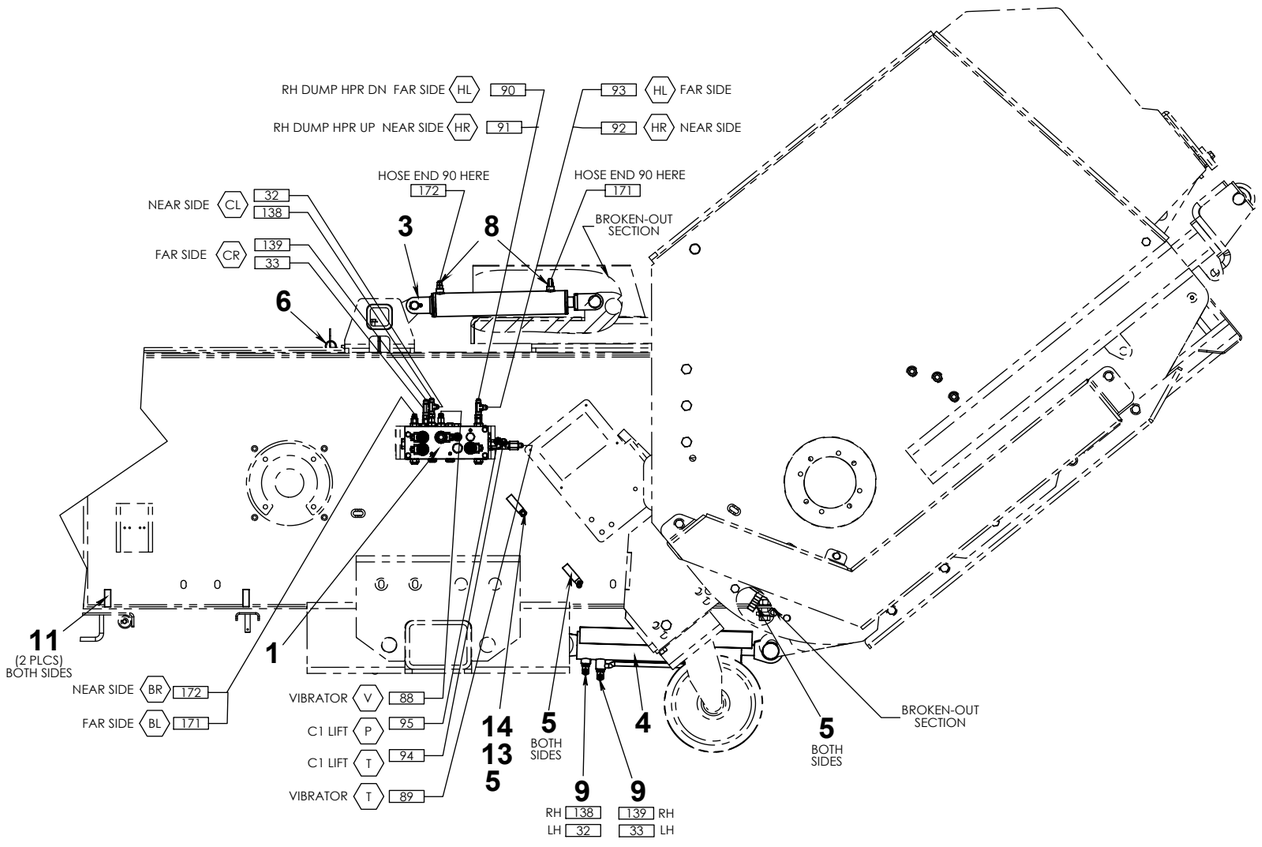
CYLINDER, C-1 RAISE / LOWER
(207380-01)

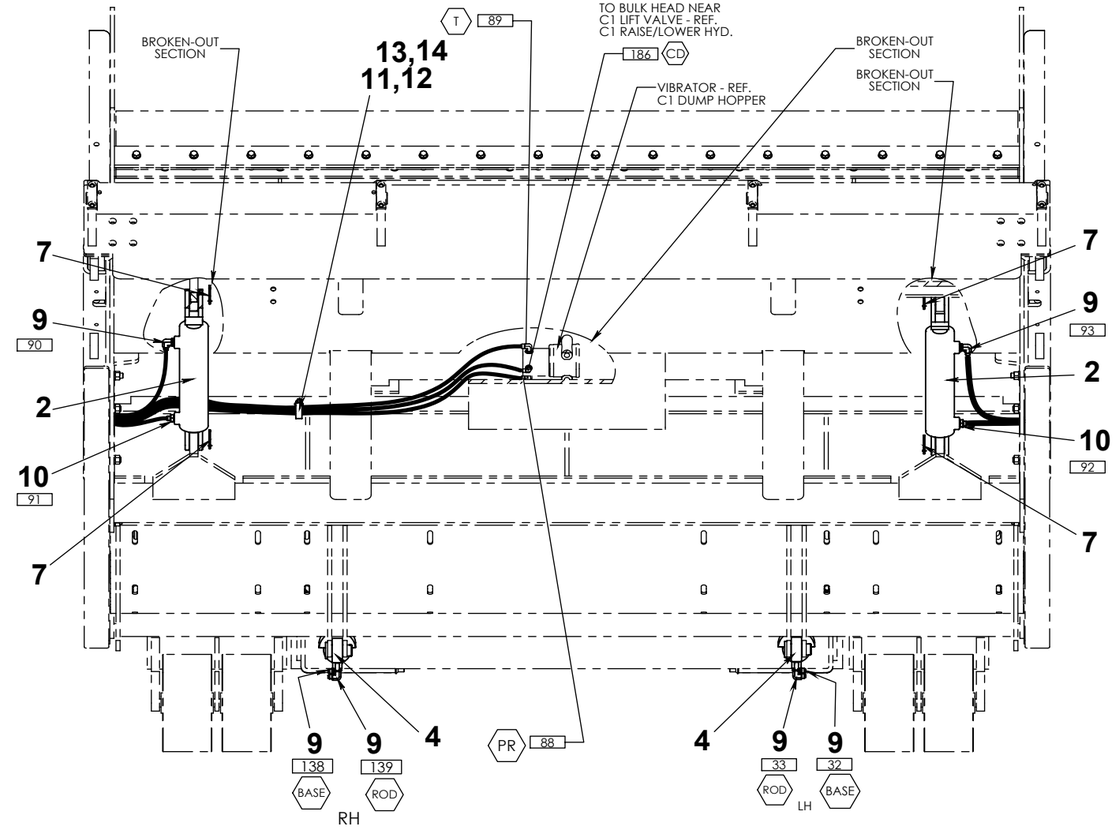


ITEM #	PART NO.	DESCRIPTION	QTY.
1	207380-01-C1	PISTON SEAL	1
2	207380-01-C2	BACK-UP	1
3	207380-01-C3	O-RING	1
4	207380-01-C4	O-RING	1
5	207380-01-C5	O-RING	1
6	207380-01-C6	WEAR BAND	2
7	207380-01-C7	U-CUP	1
8	207380-01-C8	WIPER	1
9	207380-01-C9	WEAR BAND	3
10	207380-01-C10	COTTER PIN	2
11	207380-01-C11	HEAD	1
12	207380-01-C12	CLEVIS PIN	1
13	207380-01-C13	PISTON SEAL	1
14	207380-01-C14	TUBE	1
15	200779-01-C1	ROD	1
16	207380-01-C15	CLEVIS PIN	1
17	207380-01-C16	COUNTER BALANCE VALVE	1
18	207380-01-C17	LOCK NUT	1
19	207380-01-C18	CAVITY PLUG	1
20	200779-01-C2	SEAL KIT	1

ASSY- C1 HOPPER CONTROL HYDRAULICS
(250873-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	250869-02	ASSY-C1 HOPPER CONTROLS MANIFOLD	1
2	237434-03	CYL * 3" BORE X 8" STROKE	2
3	97482-01	CYL * 2 1/2" BORE X 12" STROKE	1
4	215523-01	CYL * 3 BORE X 15 3/4 STROKE	2
5	99965	CLAMP * 2" RUBBERIZED TUBE	5
6	16p29	CLAMP * BOLT SIZE 1/2"HOSE	1
7	27D66	PIN * COTTER 3/16" X 2"	4
8	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
9	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	6
10	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	2
11	147412-04	CLAMP * 1 9/16"ID. 3/8"BOLT HOLE	5
12	83757	WASHER ~ FLAT 3/8 STEEL	1
13	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
14	83055	NUT * 3/8-16 HEX GRADE 8	2





NOTE:
CYLINDERS SUPPLIED WITH PINS (TYP)
REF. APPROPRIATE HOSE KIT FOR
HOSE DETAILS.

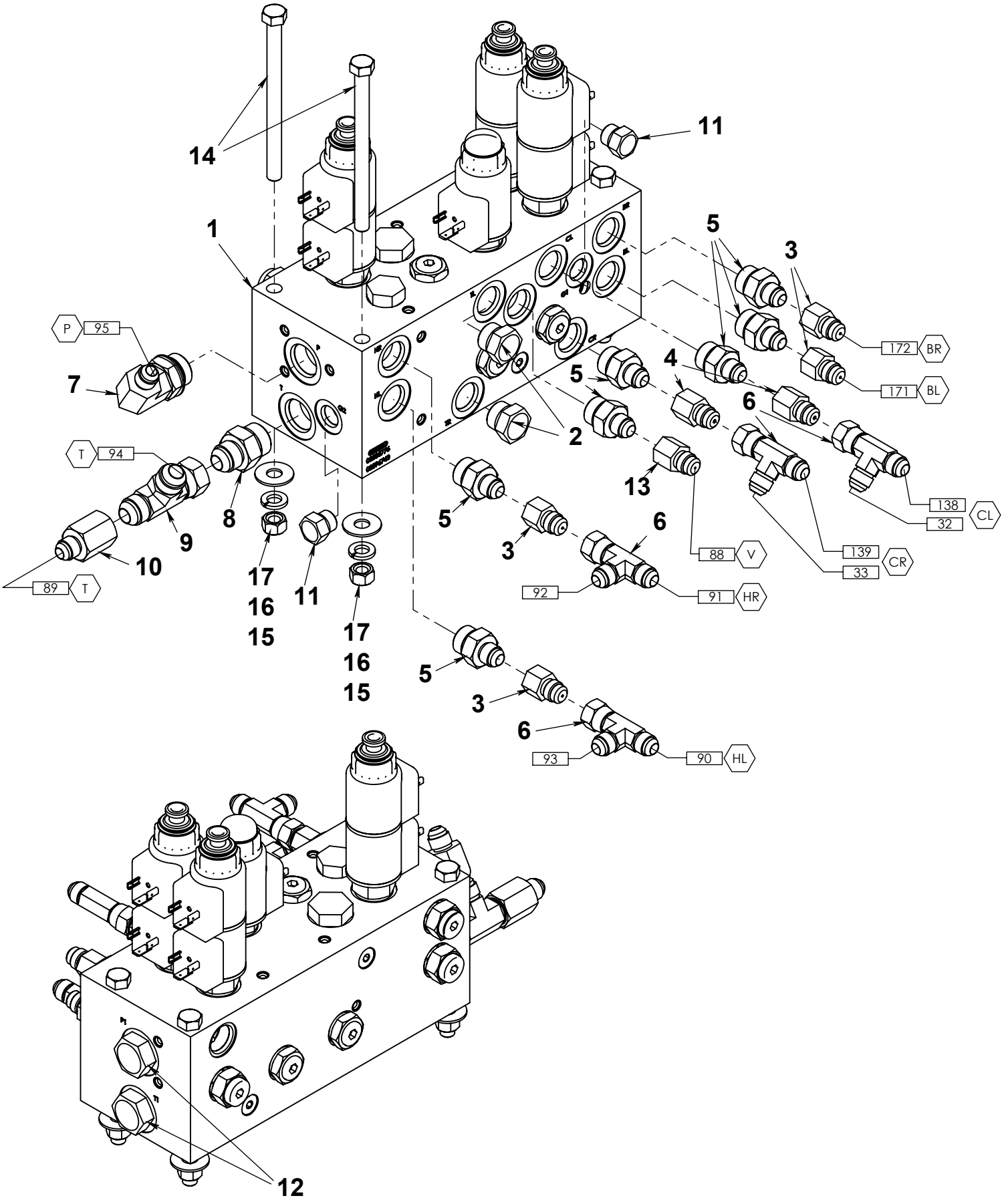
(XX) - ITEM

XX - HOSE NUMBER

(XX) - MANIFOLD PORT

ROADTEC
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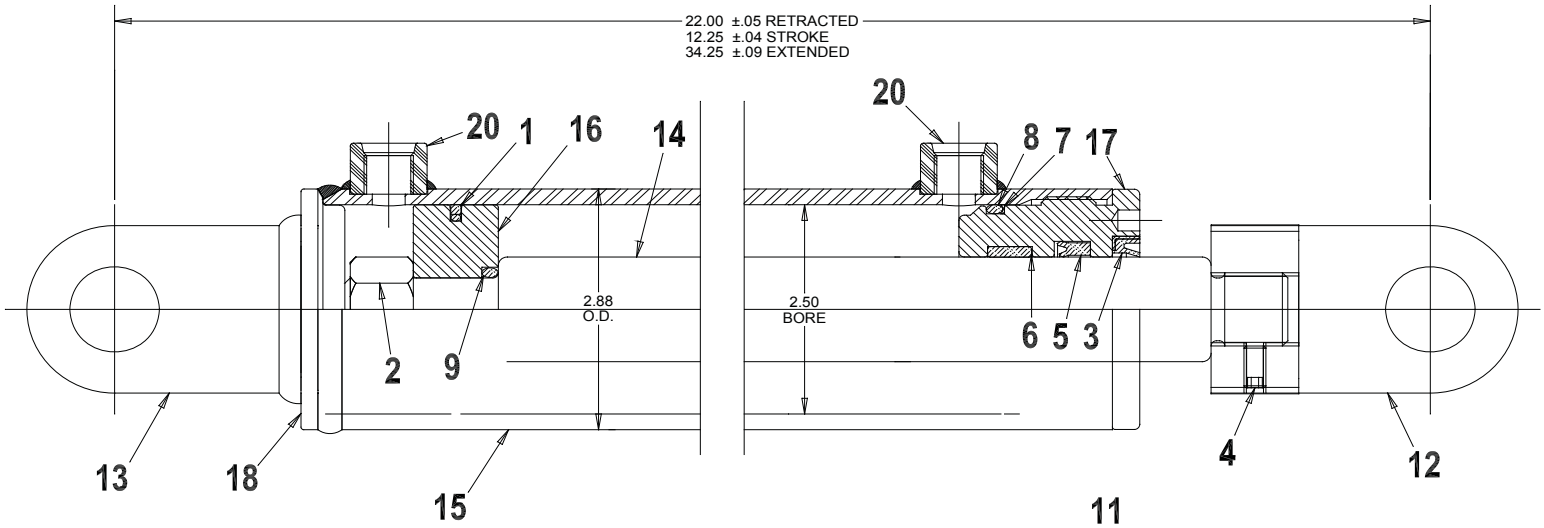
ASSY- C1 HOPPER CONTROLS MANIFOLD
(250869-02)

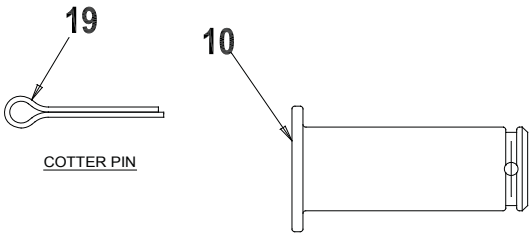


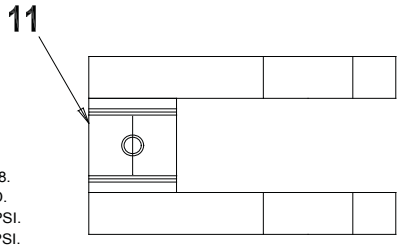
ASSY- C1 HOPPER CONTROLS MANIFOLD (250869-02)

ITEM #	PART #	DESCRIPTION	QTY.
1	235752-01	MANIFOLD - C1 HOPPER CONTROLS 24V	1
2	83767-04	FIT ~ PLUG 8 SAE	2
3	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	4
4	136649-04	FIT ~ RESTRICTOR 3/32 ORIFICE	2
5	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	7
6	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	4
7	92987	FIT ~ 6 JIC x 10 SAE 90 DEG.	1
8	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
9	84638-04	FIT ~ SWIVEL RUN TEE 8 JIC	1
10	84060-04	FIT ~ ADAPTOR 8 JIC - 6 JIC RED.	1
11	84635-04	FIT * PLUG 6 SAE	2
12	89788-04	FIT ~ PLUG 10 SAE STEEL	2
13	139793-04	FIT * RESTRICTOR 3/64 ORIFICE	1
14	20N62	BOLT * HEX 3/8"-16 X 5"	4
15	83757	WASHER ~ FLAT 3/8 STEEL	4
16	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
17	83055	NUT * 3/8-16 HEX GRADE 8	4

CYLINDER, HOPPER RAISE
(97482-01)



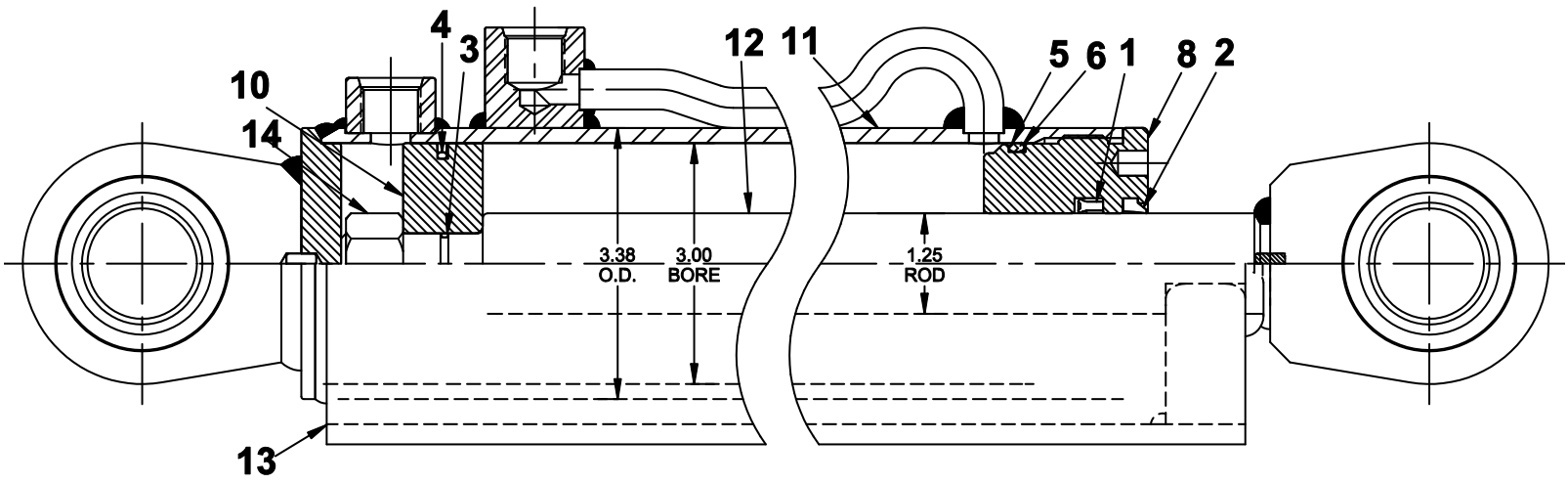


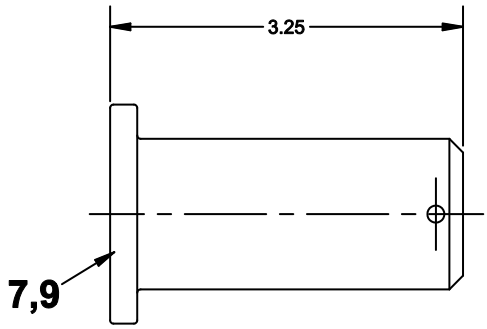


NOTES:
1. SEAL KIT NUMBER: SHC-2512122-97482-01
2. MAX. OPERATING PRESSURE: 3000 PSI.
3. PAINT NUMBER: HIGHLAND INTERNATIONAL #35-1028.
4. OIL CAPACITY (GAL): .21 RETRACTED; .27 EXTENDED.
5. BURST PRESSURE: 3.69:1 SAFETY FACTOR @ 3000 PSI.
6. COLUMN LOADING: 4.99:1 SAFETY FACTOR @ 3000 PSI.
7. TENSILE LOADING: 1.75:1 SAFETY FACTOR @ 3000 PSI.
8. ROD CHROME THICKNESS .0005" MIN.

ITEM #	PART NO.	DESCRIPTION	QTY.
1		PISTON SEAL	1
2	97482-01-C8	3/4" LOCKNUT	1
3		WIPER	1
4		SET SCREW - 1/4 X 1/2" LG.	1
5		U-CUP	1
6		WEAR BAND	1
7		BACK-UP	1
8		O-RING	1
9		O-RING	1
10		CLEVIS PIN	2
11		CLEVIS BASE	1
12	97482-01-C5	LUG ASSY.	2
13			
14	97482-01-C7	ROD	1
15		TUBE	1
16		PISTON SEAL	1
17		HEAD	1
18		BASE PLATE	2
19		COTTER PIN 1/8"	2
20		PORT 6 SAE	
21	97482-01-C6	SEAL KIT	

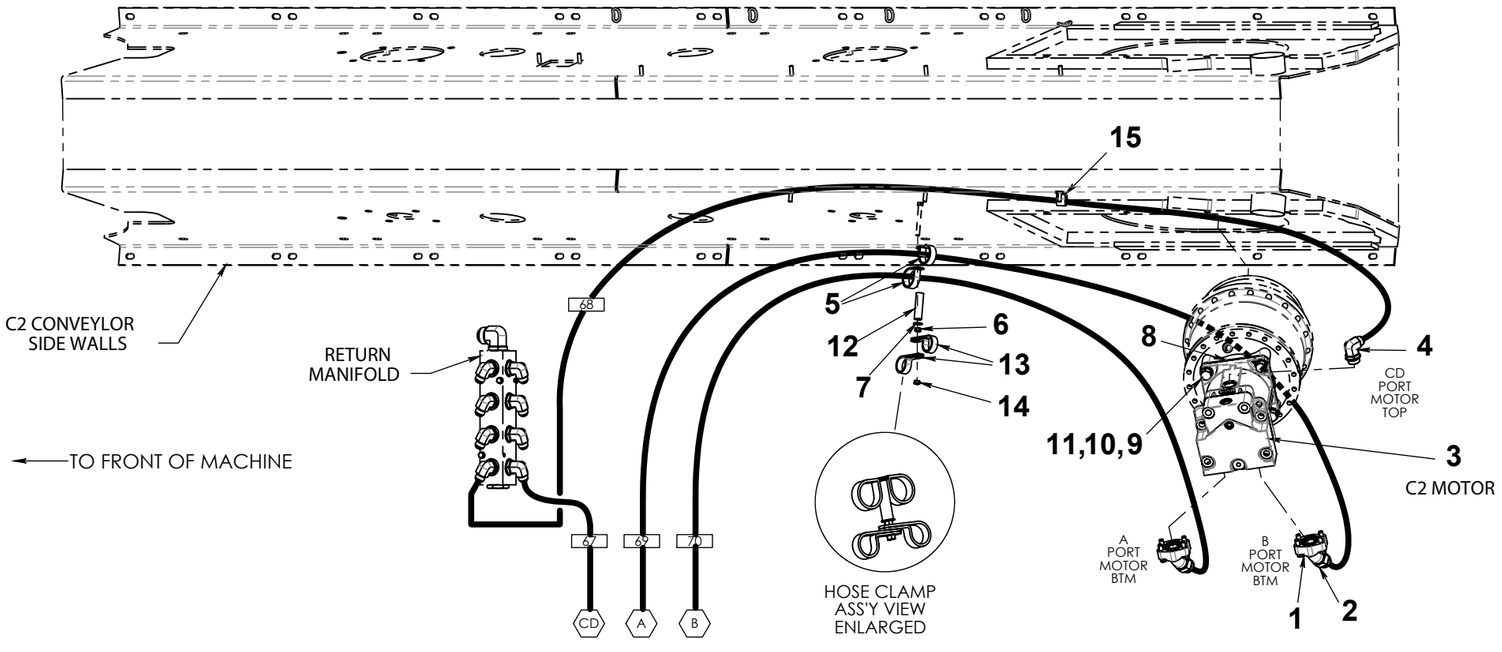
CYLINDER ,C-1 BAFFLE
(215523-01)



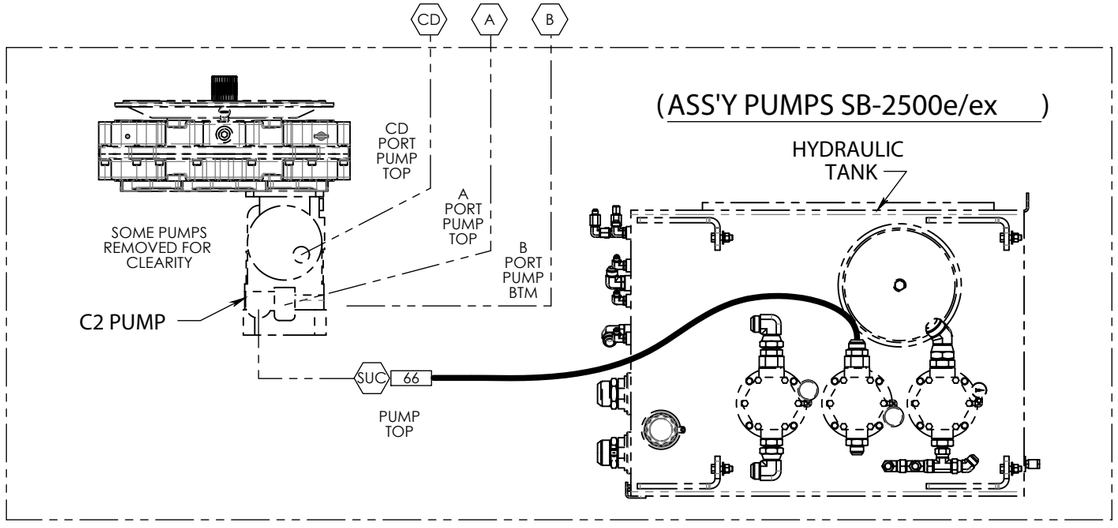


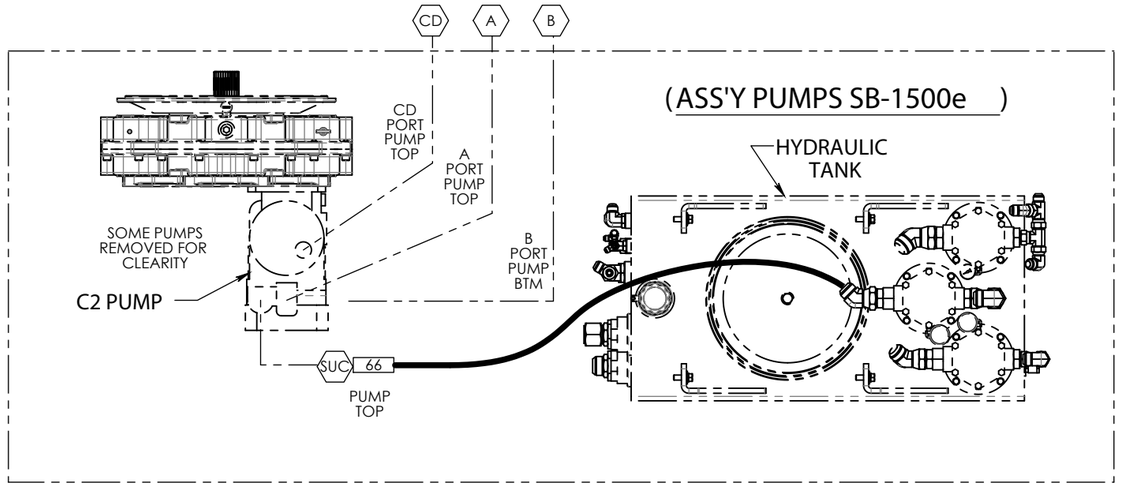
ITEM #	PART NO.	DESCRIPTION	QTY.
1	215523-01-C9	POLY PAK	1
2	215523-01-C10	WIPER	1
3	215523-01-C11	O-RING	1
4	215523-01-C12	PISTON SEAL	1
5	215523-01-C13	O-RING	1
6	215523-01-C14	BACK-UP	1
7	215523-01-C2	COTTER PIN	2
8	215523-01-C3	HEAD	1
9	215523-01-C4	CLEVIS PIN	2
10	215523-01-C5	PISTON	1
11	215523-01-C6	TUBE	1
12	215523-01-C7	ROD	1
13	215523-01-C8	SHIELD	1
14	215523-01-C15	LOCK NUT	1
15	215523-01-C1	SEAL KIT	1

ASSEMBLY- C2 DRIVE HYDRAULICS
(248247-01)



ITEM#	PART #	DESCRIPTION	QTY.
1	96765	KIT * FLANGE #20 CODE 62	2
2	99945	FIT * 20 JIC. X 20 FLG. 45 CODE62	2
3	149224-04	MOTOR * HYD. MOTOR-SERIES 90-130 CC	1
4	85875-04	FIT * ELBOW 12 JIC M - 16 SAE 90	1
5	99965	CLAMP * 2" RUBBERIZED TUBE	2
6	83055	NUT * 3/8-16 HEX GRADE 8	1
7	83757	WASHER ~ FLAT 3/8 STEEL	1
8	28Y06C4	KIT * OUTSIDE GASKET	1
9	93071	BOLT ~ HEX 3/4"-10 x 2" LG.	4
10	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	4
11	95937	WASHER * FLAT 3/4" HARD	4
12	232191-04	DETAIL-SPACER, HOSE CLAMP	1
13	147412-04	CLAMP * 1 9/16"ID. 3/8"BOLT HOLE	2
14	92235	NUT * 3/8"-16 LOCK GRADE 8	1
15	16p29	CLAMP * BOLT SIZE 1/2"HOSE	1





NOTE:
REF. APPROPRIATE HOSEKIT FOR HOSE DETAILS.

(XX) - ITEM

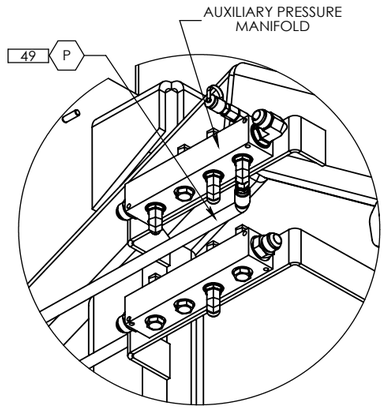
[XX] - HOSE NUMBER

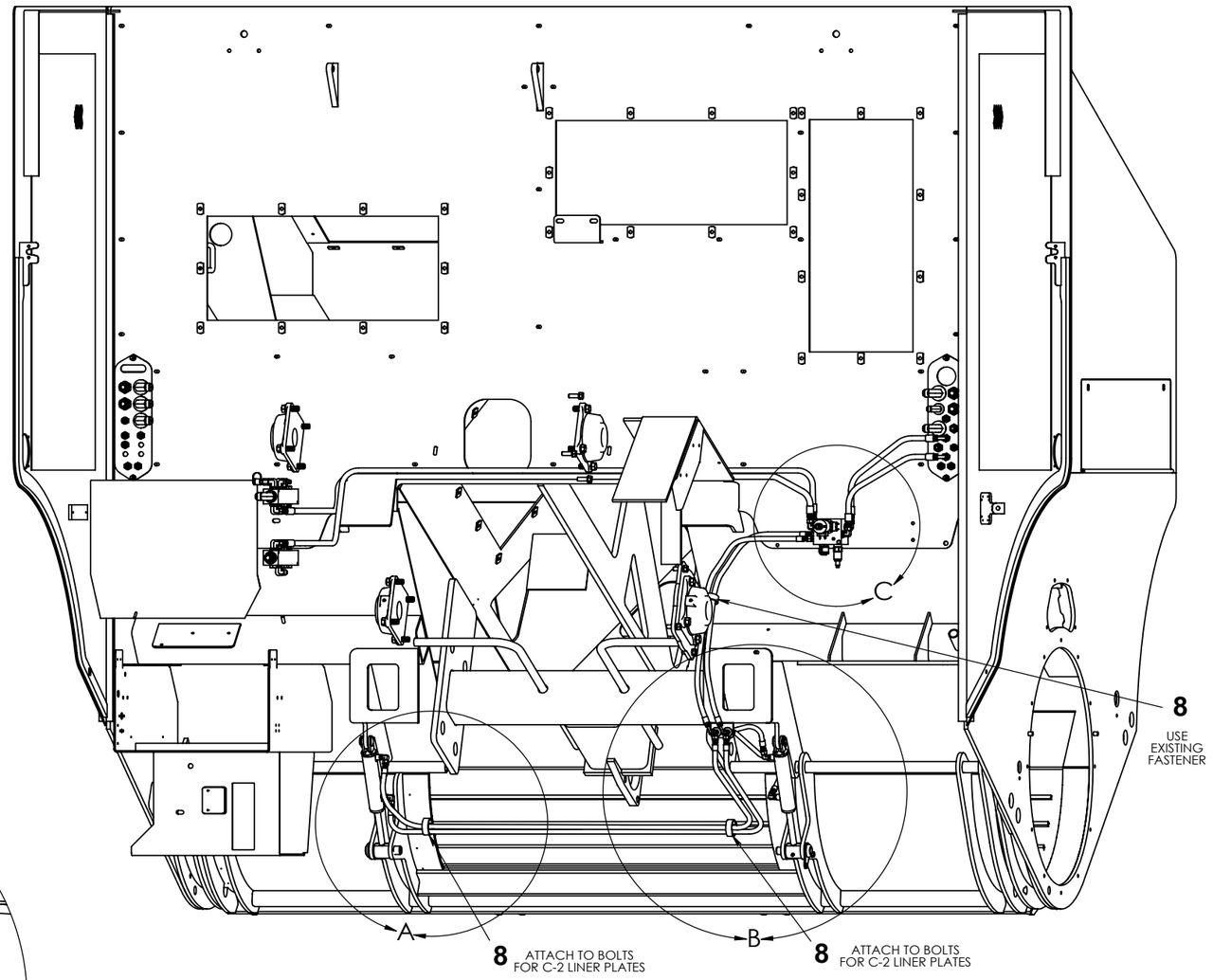
<XX> - MANIFOLD PORT

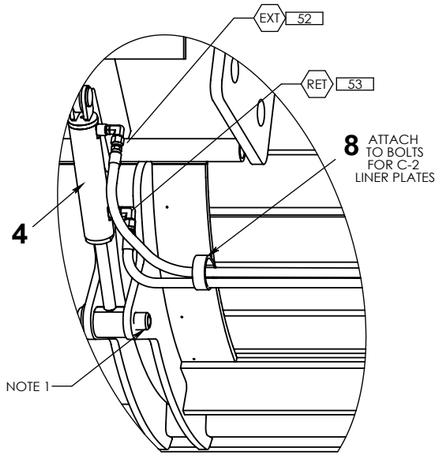
ROADTEC
an Astec Industries Company

ASSY- C2 CLEAN-OUT DOOR HYD'S.
(251529-01)

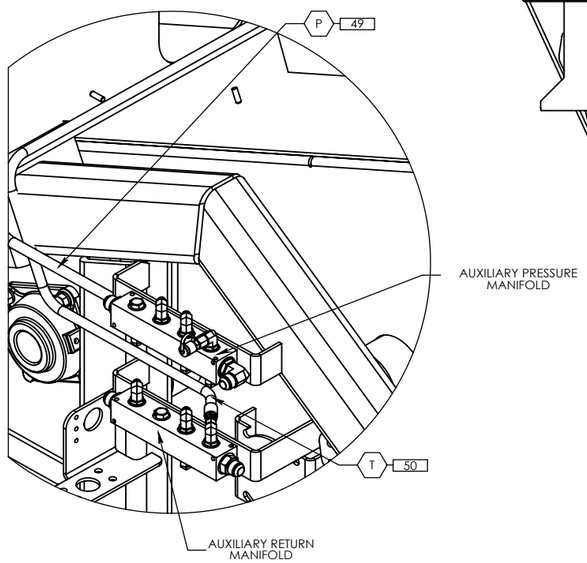
NEXT PAGE



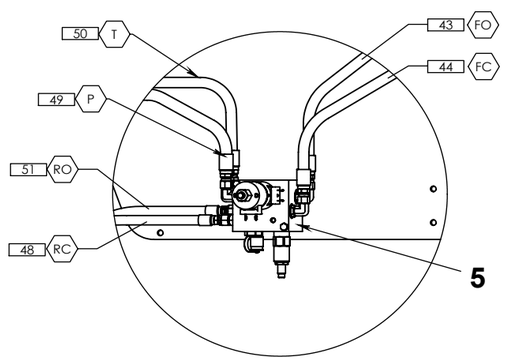




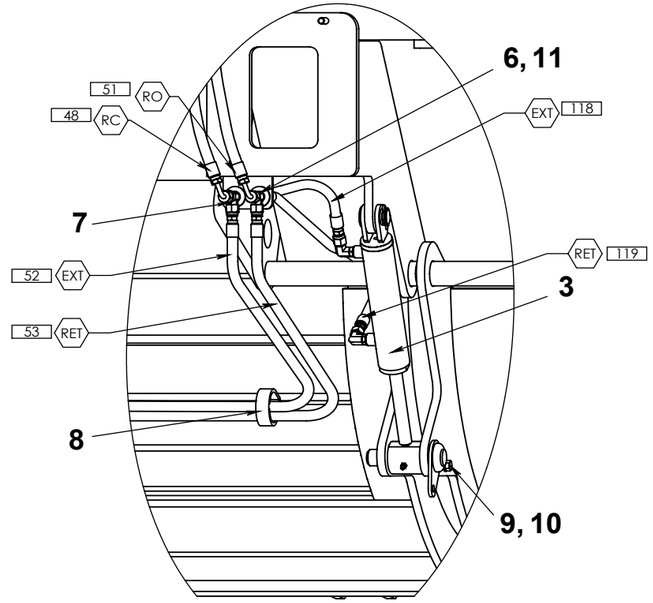
DETAIL A



CROPPED VIEW
LEFT HAND SIDE



DETAIL C

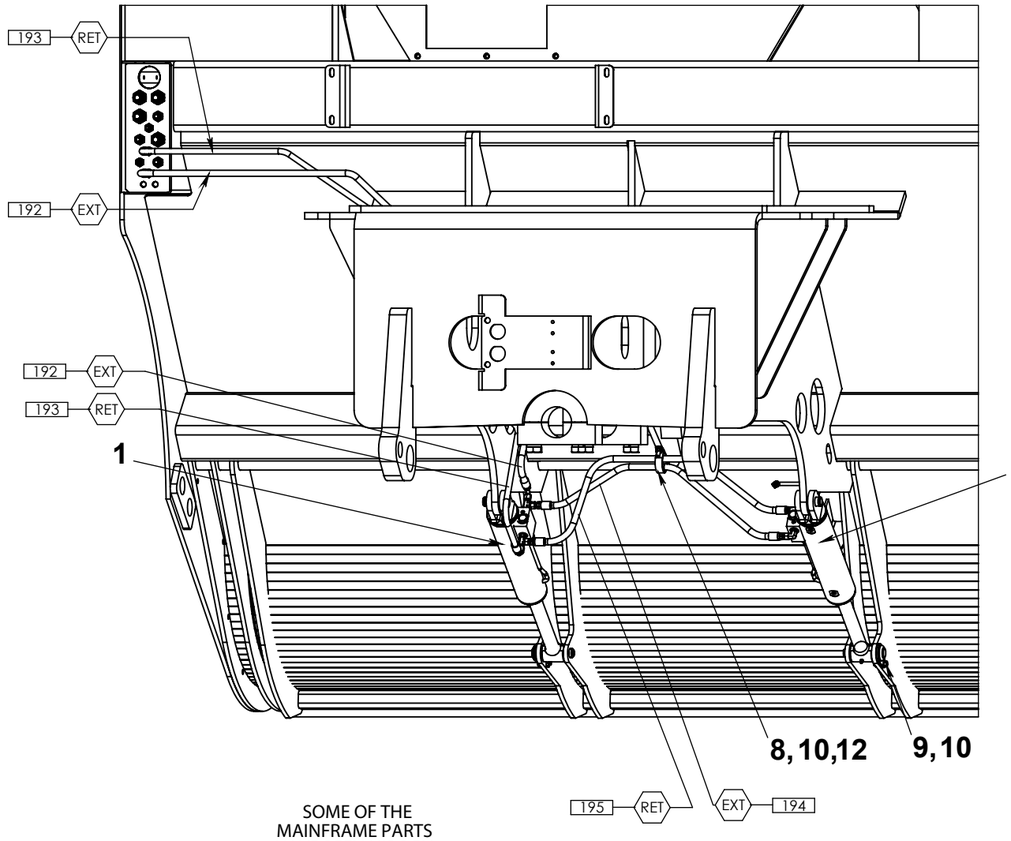


DETAIL B

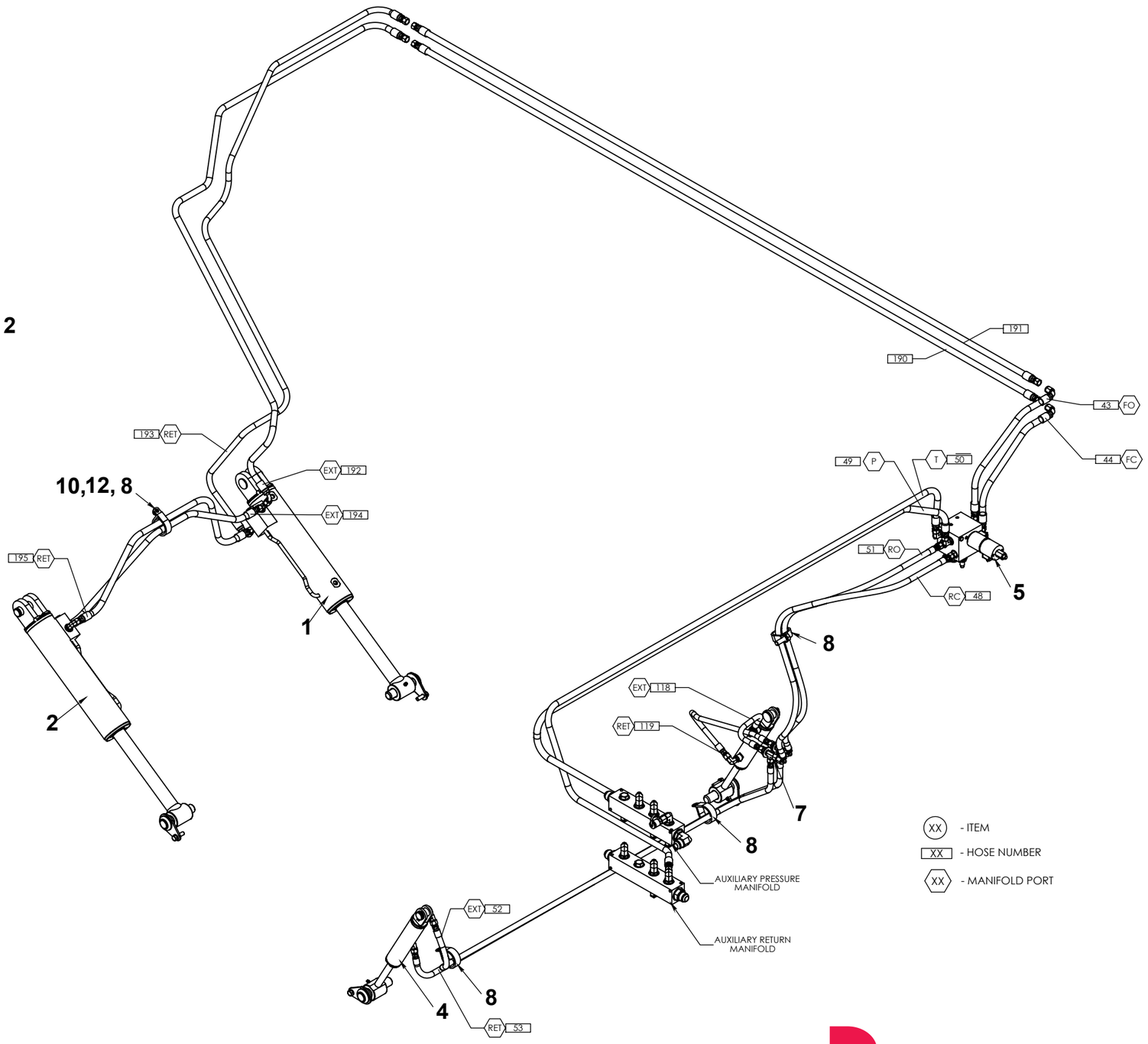
ROADTEC
an Astec Industries Company

PREVIOUS PAGE

ASSY- C2 CLEAN-OUT DOOR HYD'S.
(251529-01)



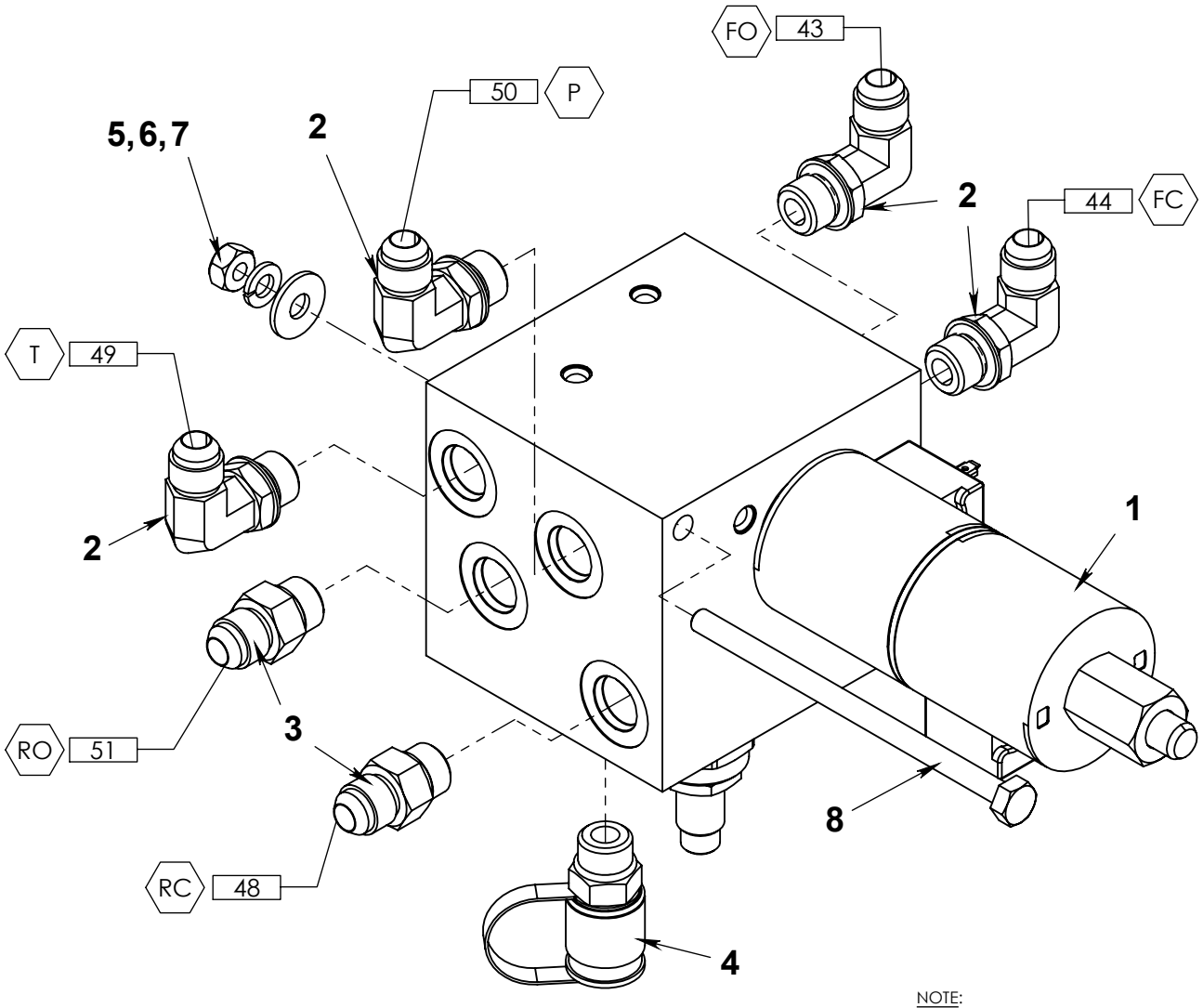
SOME OF THE MAINFRAME PARTS HAVE BEEN HIDDEN FOR CLARITY



ITEM#	PART #	DESCRIPTION	QTY.
1	248860-03	ASSY-RT FRONT C2 COD CYLINDER	1
2	248861-03	ASSY-LT FRONT C2 COD CYLINDER	1
3	248862-03	ASSY-RT REAR C2 COD CYLINDER	1
4	248863-03	ASSY-LT REAR C2 COD CYLINDER	1
5	251547-03	ASSEMBLY-C2 COD MANIFOLD	1
6	93231	TEE RUN BULKHEAD W/LOCKNUT M 6 JIC	2
7	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	1
8	99965	CLAMP * 2" RUBBERIZED TUBE	4
9	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
10	83056	WASHER ~ LOCK 3/8 SPRING STEEL	5
11	83781-04	WASHER * FLAT 1/2" STEEL	2
12	83055	NUT * 3/8-16 HEX GRADE 8	1

ROADTEC
an Astec Industries Company

ASSY- C2 CLEAN-OUT DOOR MANIFOLD
(251547-03)



NOTE:

REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

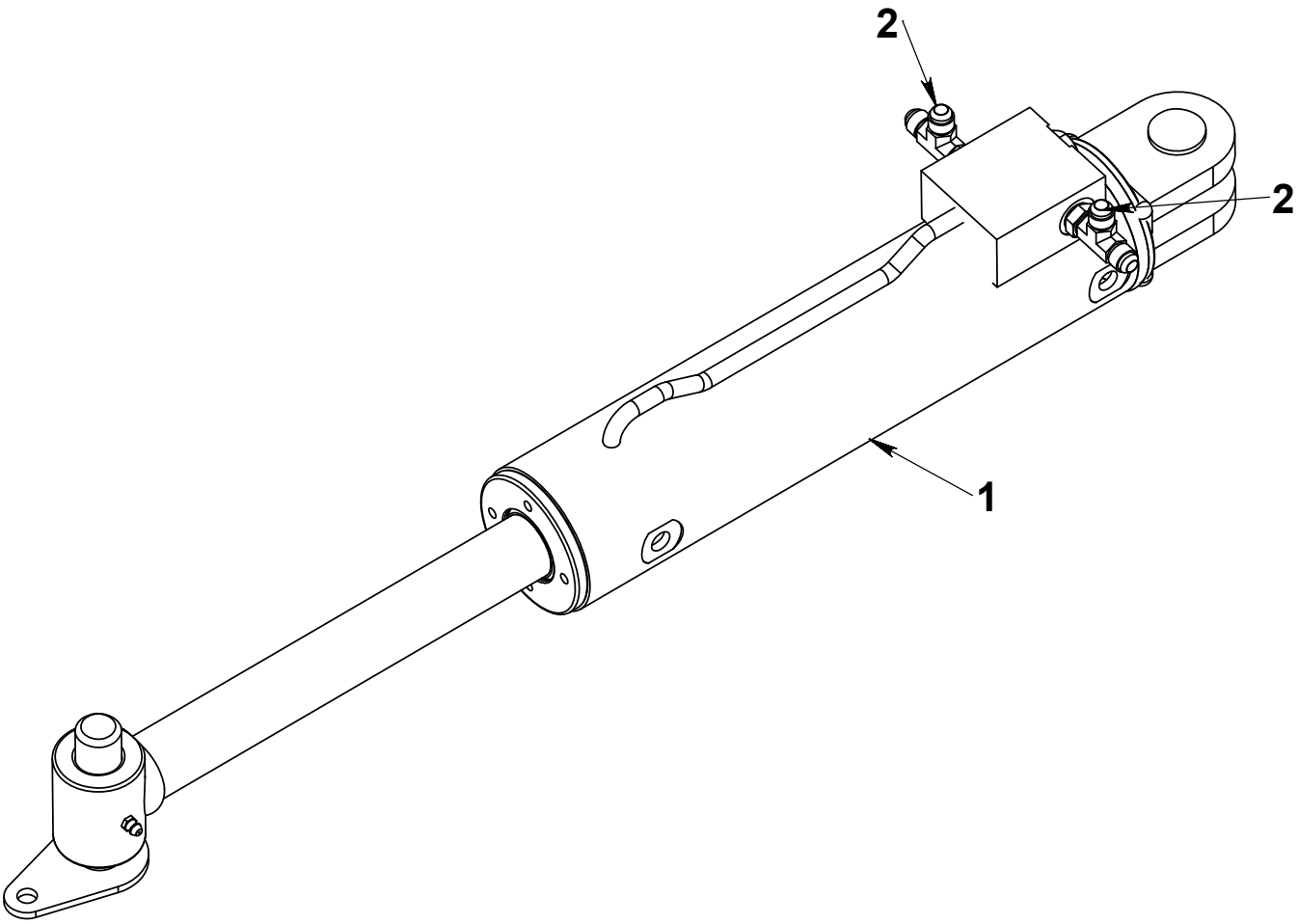
(XX) - ITEM

[XX] - HOSE NUMBER

⟨XX⟩ - MANIFOLD PORT

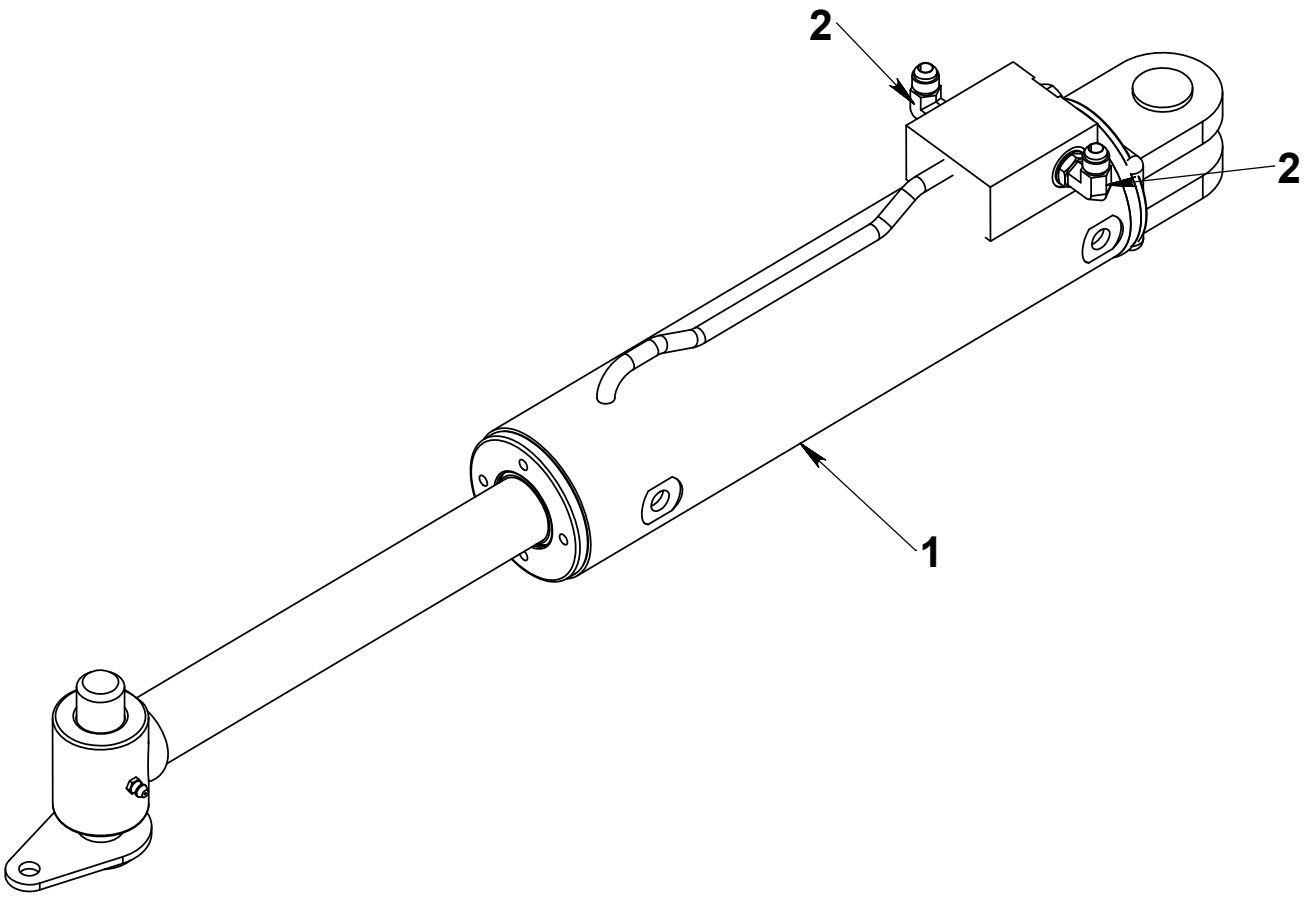
ITEM #	PART #	DESCRIPTION	QTY.
1	251377-03	MANIFOLD * C2 COD SEQUENCING 4-WAY	1
2	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	4
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
4	235341-04	FIT * TEST PORT M16X2.0 X #6SAE	1
5	84444	WASHER * FLAT 1/4" STEEL	2
6	83065	WASHER * LOCK 1/4" SPRING STEEL	2
7	89772	NUT * 1/4"-20 HEX GRADE 8	2
8	215504-04	BOLT * HEX 1/4-20 X 4 1/2 GR 8	2

ASSY-RT FRONT C2 COD CYLINDER (248860-03)



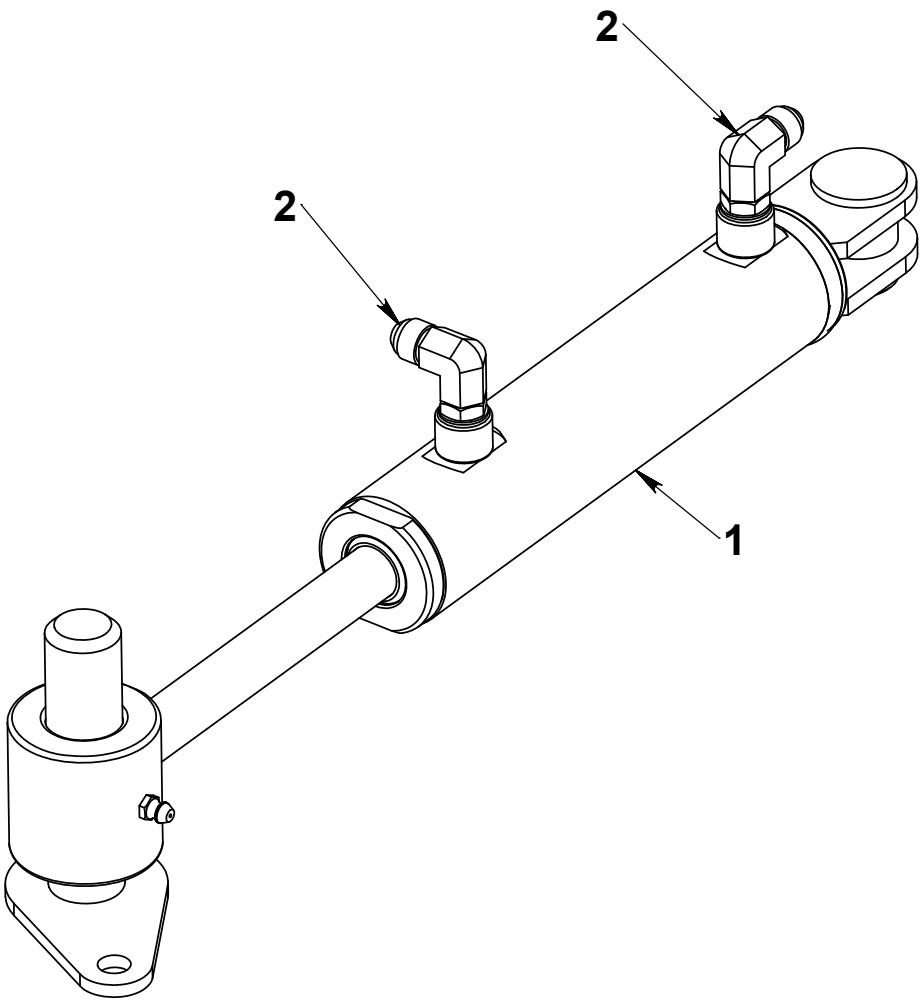
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	248092-03	CYLINDER*3"BORE,10" STROKE	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	2

ASSY-LT FRONT C2 COD CYLINDER (248861-03)



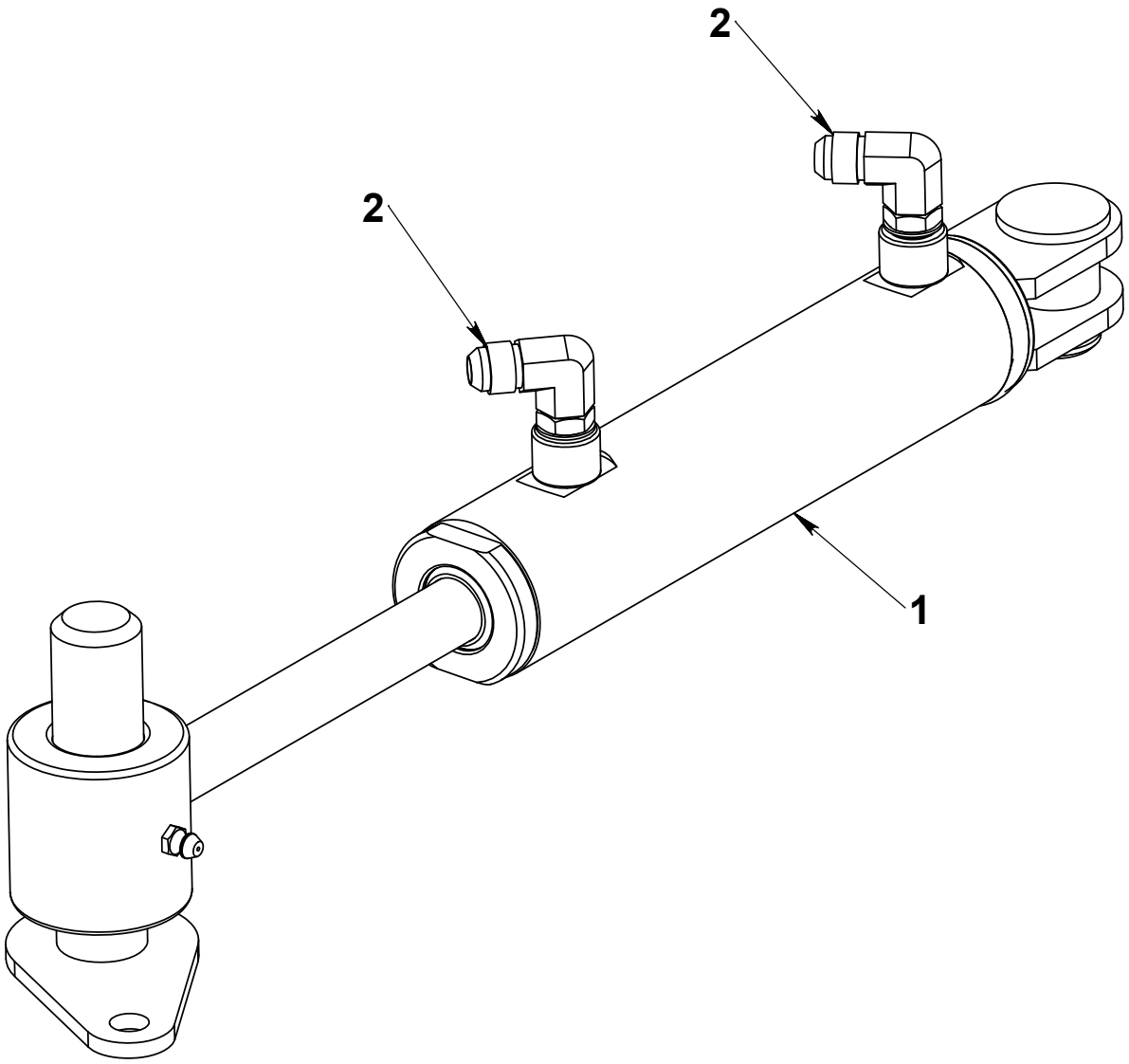
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	248092-03	CYLINDER*3"BORE,10" STROKE	1
2	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	2

ASSY-RT REAR C2 COD CYLINDER (248862-03)



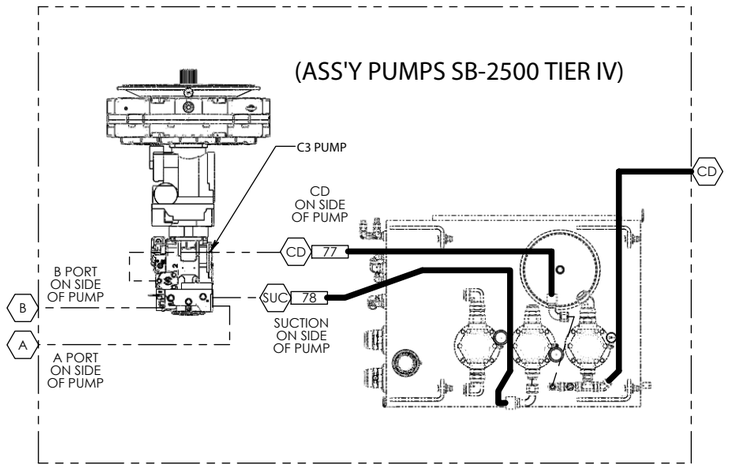
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	248093-03	CYLINDER*1 1/2"BORE,5" STROKE	1
2	90595	FIT * ELBOW 6 JIC - 4 SAE 90 DEG.	2

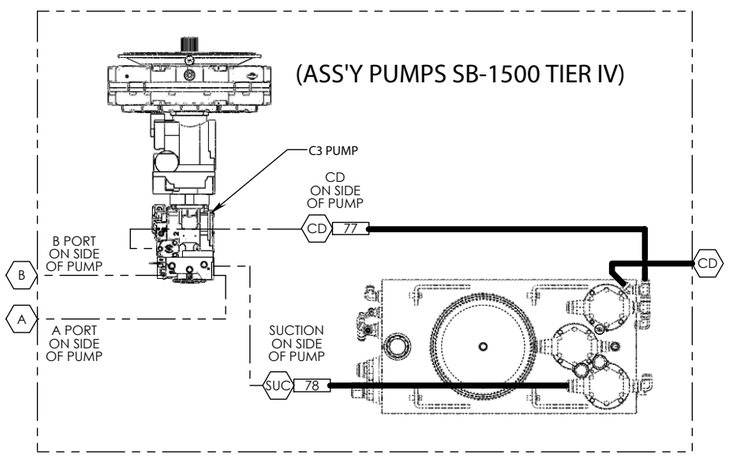
ASSY-LT REAR C2 COD CYLINDER (248863-03)

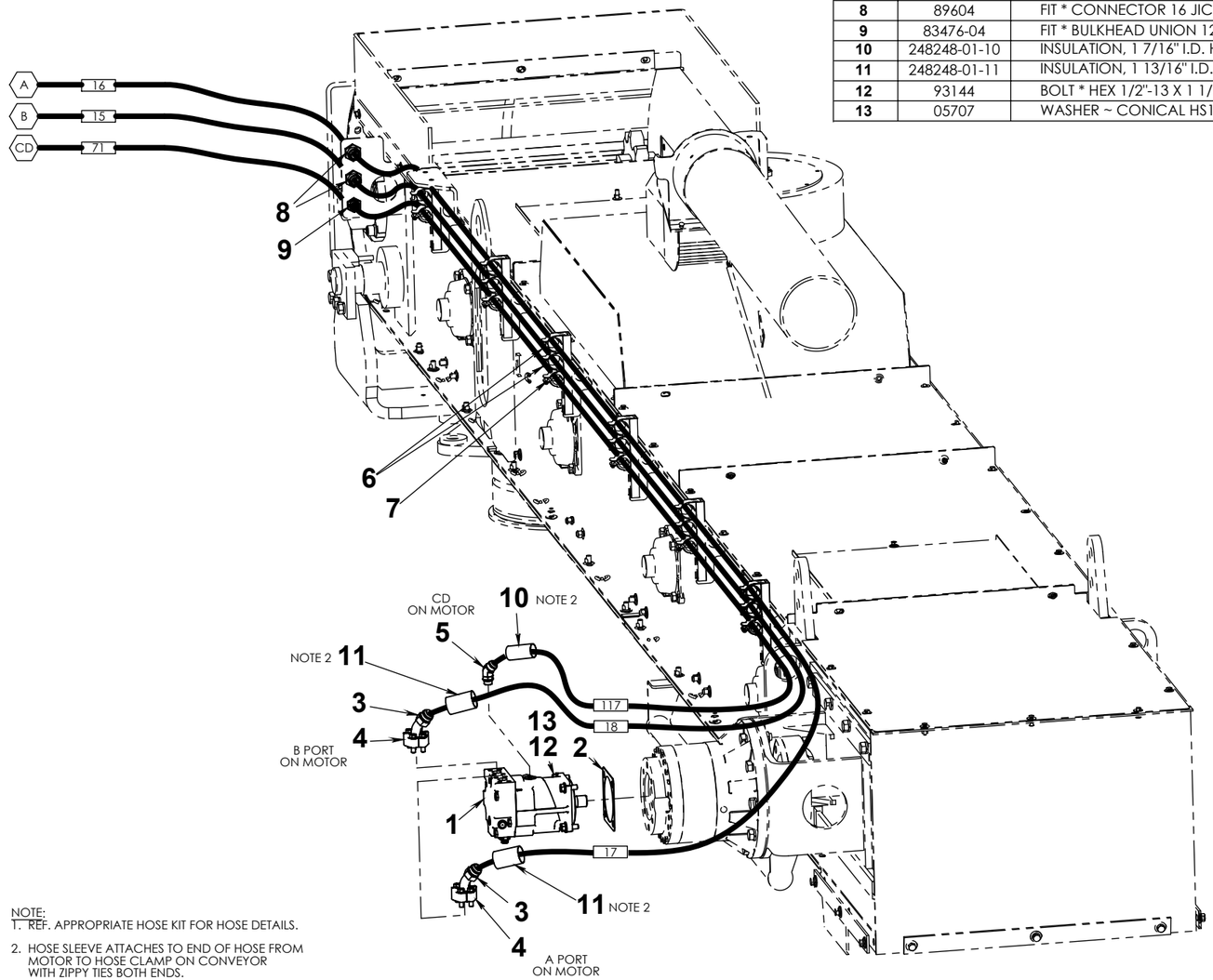


ITEM #	PART #	DESCRIPTION	Default/ QTY
1	248093-03	CYLINDER*1 1/2"BORE,5" STROKE	1
2	90595	FIT * ELBOW 6 JIC - 4 SAE 90 DEG.	2

ASSEMBLY- C3 DRIVE HYDRAULICS
(248248-01)







ITEM#	PART #	DESCRIPTION	QTY.
1	91681-04	MOTOR * DRIVE	1
2	130086-C1	GASKET * FOR AUSCO BRAKE	1
3	121517	FIT * 16 JIC M.-16 FLG. 45 CODE 62	2
4	90729	KIT * FLANGE #16 CODE 62	2
5	120439	FIT * 12 JIC X 10 SAE 45 DEG	1
6	145538	CLAMP * MOUNTING FOR 1 1/2" OD. HOSE	12
7	149015	CLAMP * MOUNTING FOR 1 1/8" OD. HOSE	6
8	89604	FIT * CONNECTOR 16 JIC BULKHEAD UNION W/ NUT	2
9	83476-04	FIT * BULKHEAD UNION 12 JIC	1
10	248248-01-10	INSULATION, 1 7/16" I.D. HOSE SLEEVE, Nylon X 24"	1
11	248248-01-11	INSULATION, 1 13/16" I.D. HOSE SLEEVE, Nylon X 24"	2
12	93144	BOLT * HEX 1/2"-13 X 1 1/2"	4
13	05707	WASHER ~ CONICAL HS12 6796 STEEL	4

NOTE:
1. REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.
2. HOSE SLEEVE ATTACHES TO END OF HOSE FROM MOTOR TO HOSE CLAMP ON CONVEYOR WITH ZIPPY TIES BOTH ENDS.

(XX) - ITEM

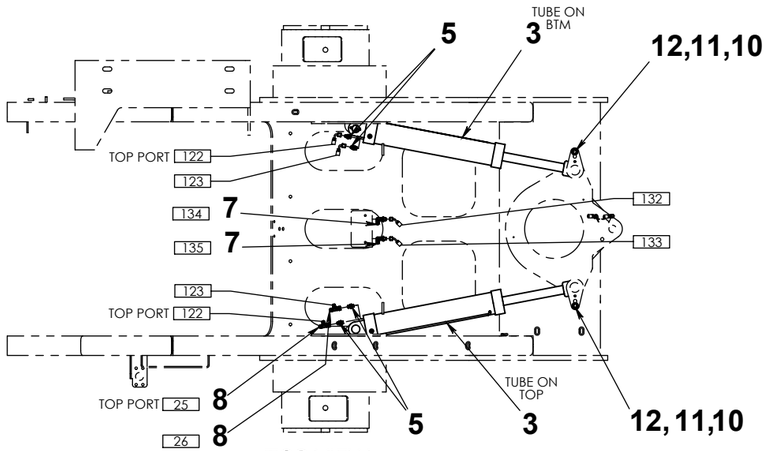
[XX] - HOSE NUMBER

<XX> - MANIFOLD PORT

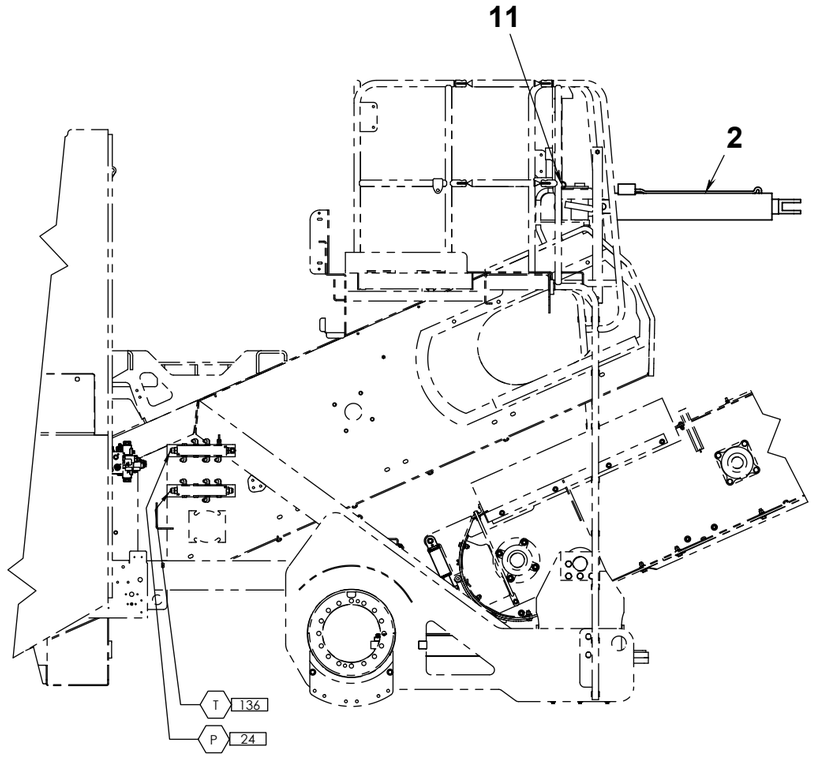
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an Astec Industries Company

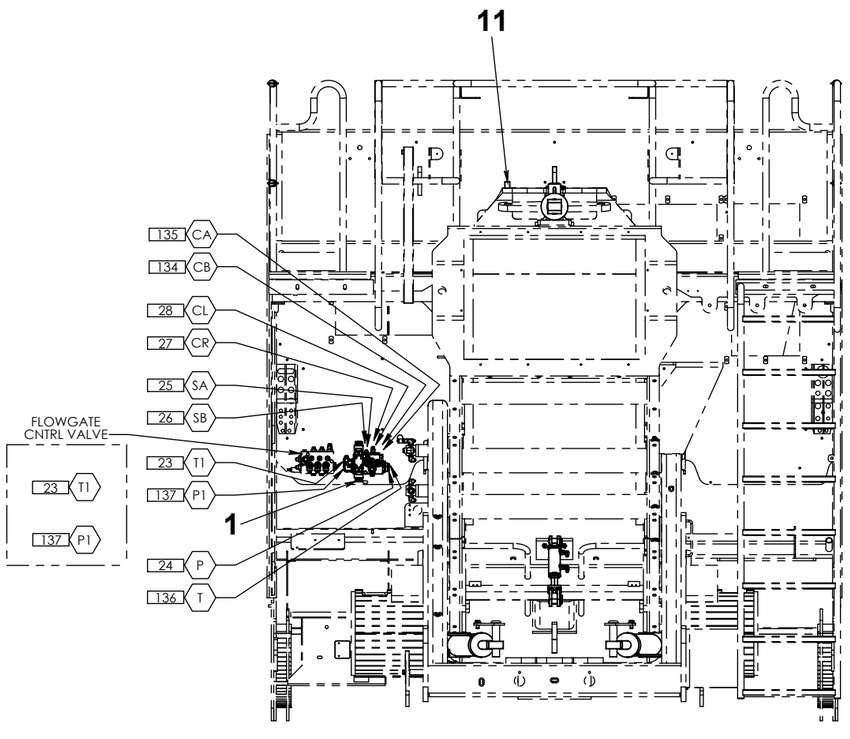
ASSY- C3 CONTROL HYDRAULICS
(254065-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	236179-02	ASSEMBLY-C3 CONTROL MANIFOLD	1
2	214518-01	CYL * 5" BORE X 26" STROKE	1
3	144901-01	CYL * 4" BORE X 21" STROKE	2
4	234638-02	CYL * 2" BORE X 2" STROKE	1
5	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	6
6	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	2
7	85381	ELBOW 90 DEG BULKHEAD W/LOCKNUT -6 JIC	2
8	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	2
9	16p29	CLAMP * BOLT SIZE 1/2"HOSE	1
10	83317	WASHER * LOCK 1/2" SPRING STEEL	2
11	83781-04	WASHER * FLAT 1/2" STEEL	2
12	86164	BOLT * HEX 1/2"-13 X 1 1/4"	2

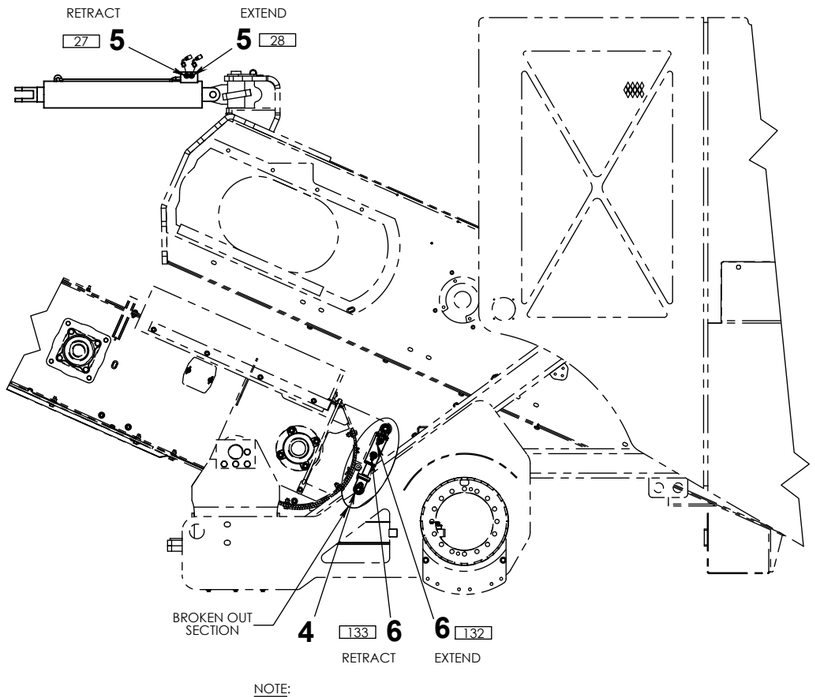


TOP VIEW
(SOME ITEMS NOT SHOWN FOR CLEARITY)
⇐ TO FRONT OF MACHINE





SOME PARTS NOT SHOWN FOR CLARITY



NOTE:

1. REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

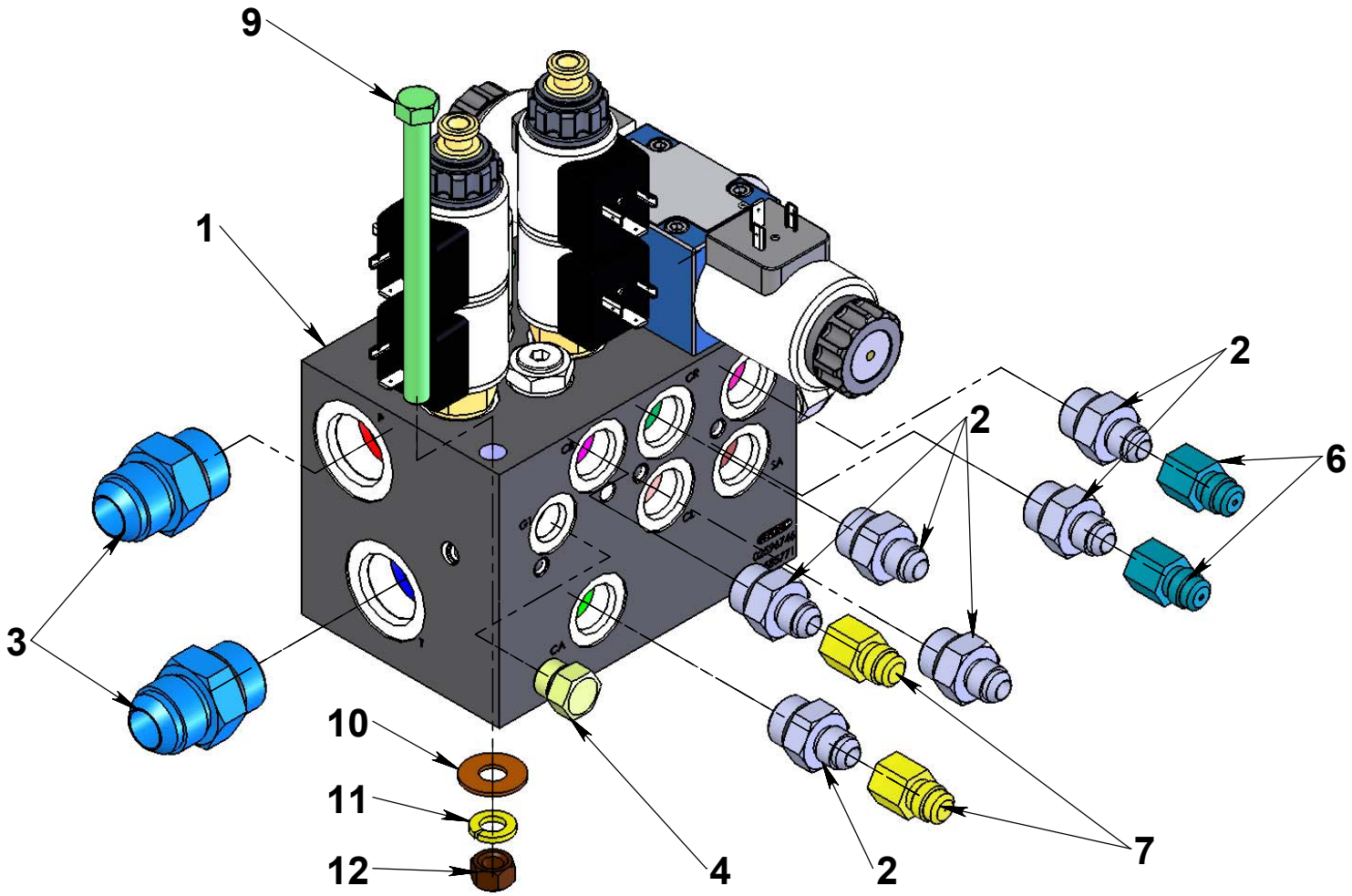
(XX) - ITEM

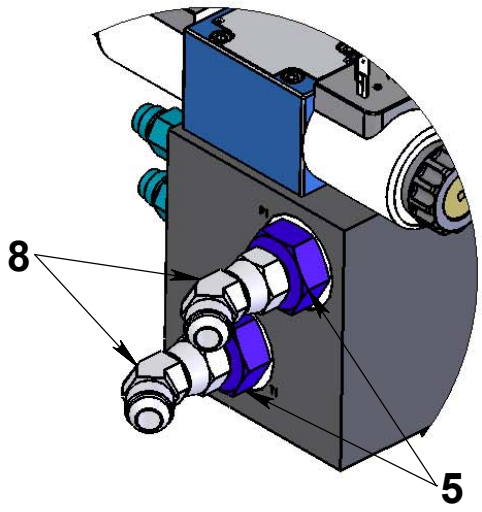
[XX] - HOSE NUMBER

⟨XX⟩ - MANIFOLD

ROADTEC an Astec Industries Company

ASSEMBLY-C3 CONTROL MANIFOLD (236179-02)

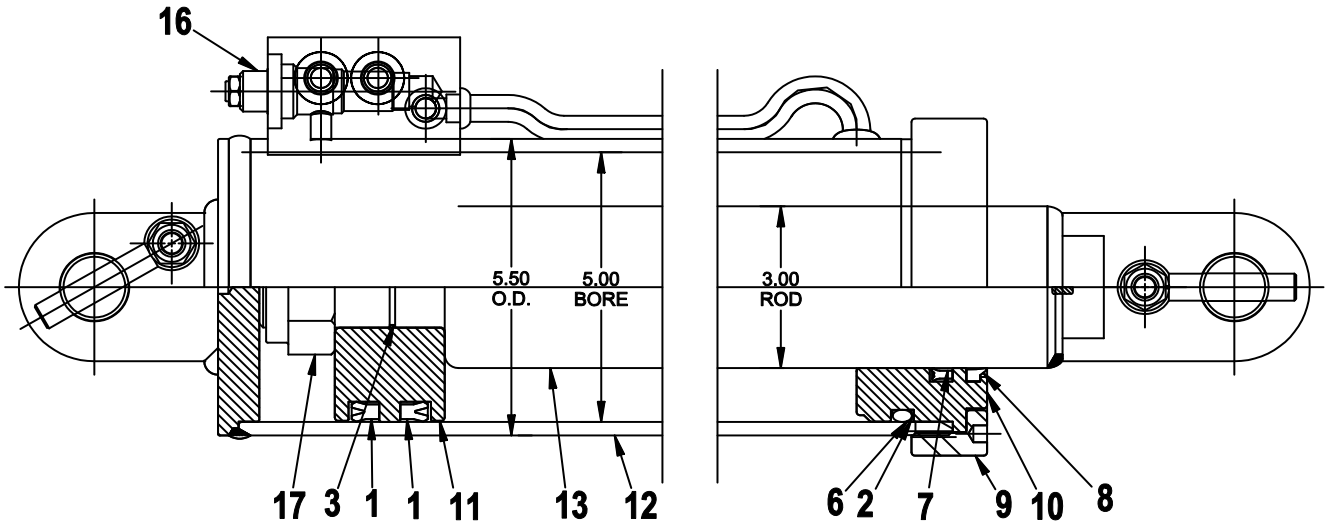


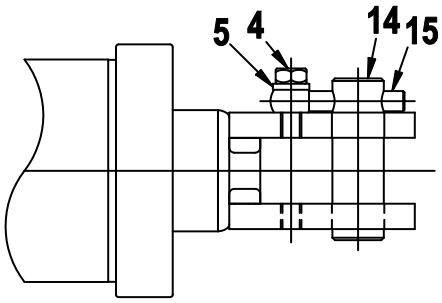


ASSEMBLY-C3 CONTROL MANIFOLD (236179-02)

ITEM #	PART #	DESCRIPTION	QTY
1	235755-01	MANIFOLD * C3 CONTROLS 24V	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	6
3	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	2
4	84635-04	FIT * PLUG 6 SAE	1
5	89616	FIT * 8 JIC X 12 SAE ST. MALE	2
6	136649-04	FIT ~ RESTRICTOR 3/32 ORIFICE	2
7	135942-04	FIT ~ RESTRICTOR 1/64 ORIFICE	2
8	85218-04	FIT * ELBOW SWIVEL 8 JIC 45 DEG.	2
9	20N62	BOLT * HEX 3/8"-16 X 5"	2
10	83757	WASHER ~ FLAT 3/8 STEEL	2
11	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
12	83055	NUT * 3/8-16 HEX GRADE 8	2

CYLINDER, C-3 LIFT
(214518-01)

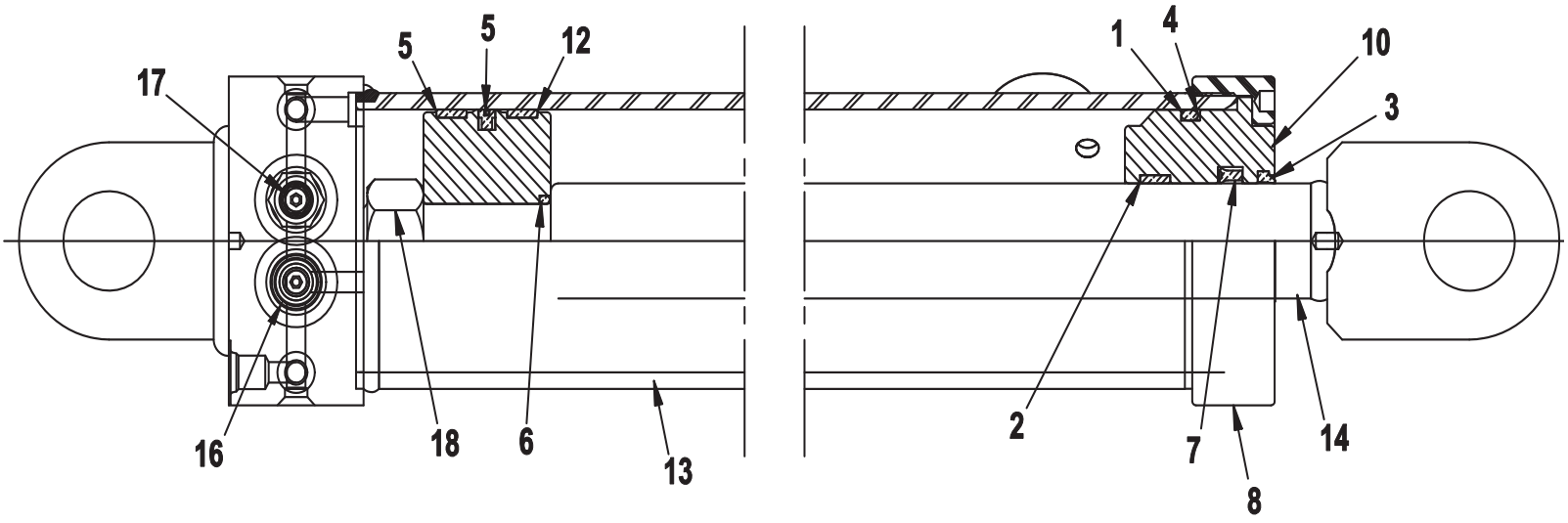




ROD END MOUNT DETAIL

ITEM #	PART NO.	DESCRIPTION	QTY.
1	214518-01-C6	U-CUP	2
2	214518-01-C7	BACK-UP	1
3	214518-01-C8	O-RING	1
4	214518-01-C9	HEX BOLT	2
5	214518-01-C10	LOCK WASHER	2
6	214518-01-C11	O-RING	1
7	214518-01-C12	POLY PACK	1
8	214518-01-C13	WIPER	1
9	89028-04-C8	HEAD CAP	1
10	214518-01-C14	HEAD CAP	1
11	214518-01-C15	PISTON	1
12	214518-01-C16	TUBE	1
13	214518-01-C17	ROD	1
14	214518-01-C3	CLEVIS PIN	2
15	214518-01-C4	PIN HOLDER	2
16	29H98-C2	COUNTER BALANCE VALVE	1
17	214518-01-C18	LOCK NUT	1
18	92784-01-C1	SEAL KIT	1
19			
20			

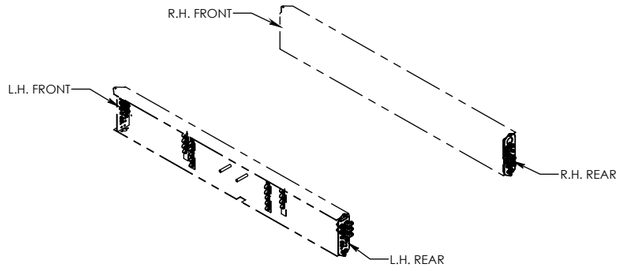
CYLINDER, C-3 SWING
(144901-01)



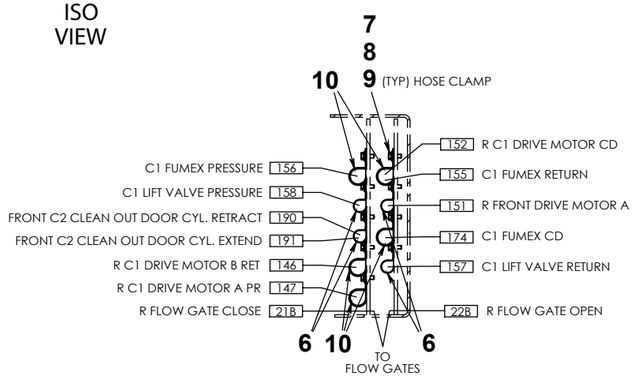
ITEM #	PART NO.	DESCRIPTION	QTY.
1	144901-01-C8	O-RING	1
2	144901-01-C9	WEAR BAND	1
3	144901-01-C10	WIPER	1
4	144901-01-C11	BACK UP	1
5	144901-01-C12	U-CUP	2
6	144901-01-C13	O-RING	1
7	144901-01-C14	POLY PAK	1
8	144901-01-C3	HEAD CAP	1
9	144901-01-C15	COTTER PIN	1
10	144901-01-C5	HEAD	1
11	149430-03	CLEVIS PIN	1
12	144901-01-C16	PISTON	1
13	144901-01-C17	TUBE	1
14	144901-01-C4	ROD	1
15	129578-04	CLEVIS PIN	1
16	144901-01-C18	PLUG	1
17	144901-01-C19	COUNTER BALANCE VALVE	2
18	144901-01-C2	LOCK NUT	2
19	93015-C1	SEAL KIT	1
20			

ASSY- HYDRAULIC TUB
(255625-01)

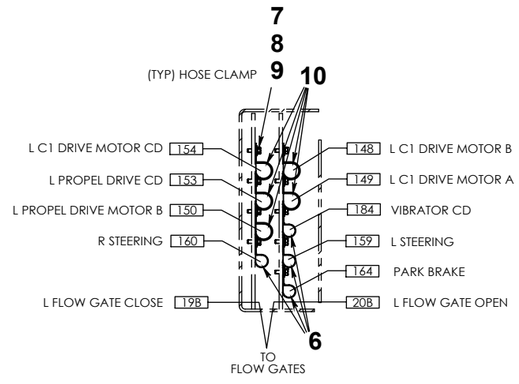
ITEM #	PART #	DESCRIPTION	QTY.
1	242090-03	ASSY-LT HYDRAULIC TUB BULKHEAD	1
2	255620-03	ASSY-RT HYDRAULIC TUB BULKHEAD	1
3	83476-04	FIT * BULKHEAD UNION 12 JIC	9
4	83453-04	FIT * UNION 8 JIC BULKHEAD STEEL	3
5	83475-04	FIT * BULKHEAD UNION 6 JIC ST	8
6	95966	CLAMP * 7/8"CUSHION-TUBE(3/8" BOLT)	16
7	84444	WASHER * FLAT 1/4" STEEL	36
8	83065	WASHER * LOCK 1/4" SPRING STEEL	36
9	89988-04	BOLT * HEX 1/4"-20 X 3/4"	36
10	16p29	CLAMP * BOLT SIZE 1/2"HOSE	20
11	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
12	83055	NUT * 3/8-16 HEX GRADE 8	4



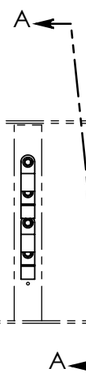
ISO VIEW

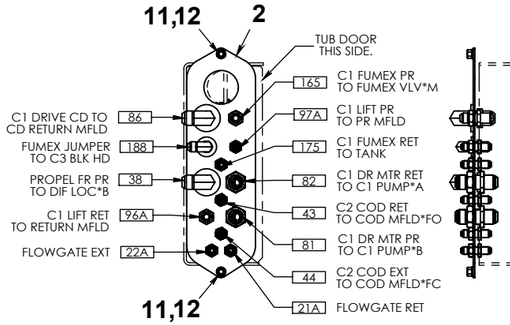


SECTION A-A



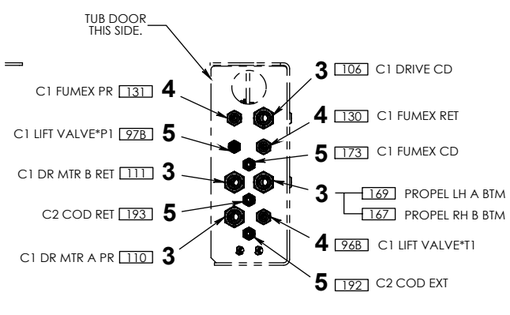
SECTION B-B



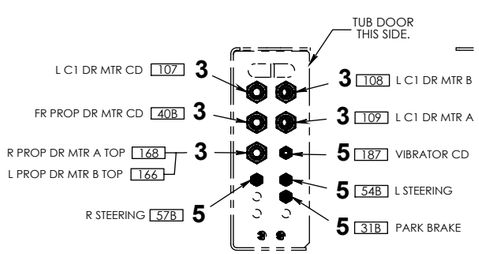


R.H. REAR VIEW

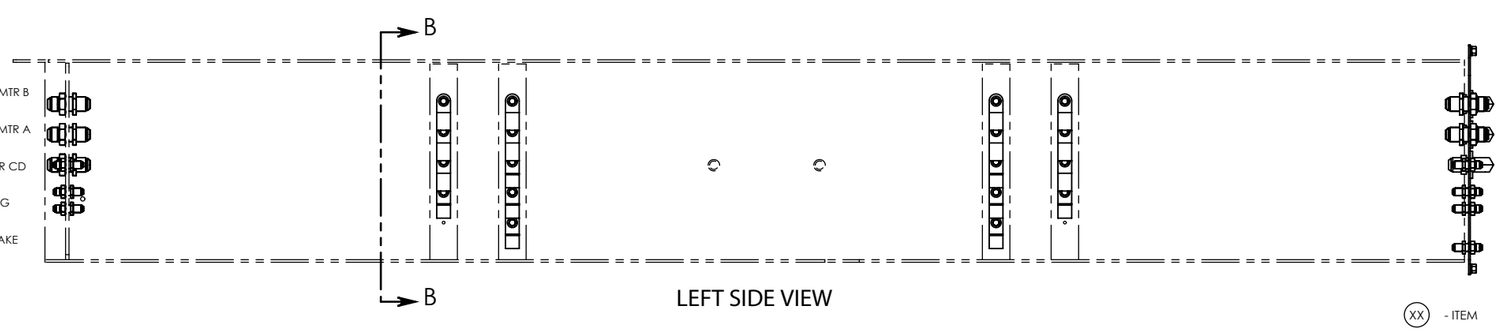
RIGHT SIDE VIEW



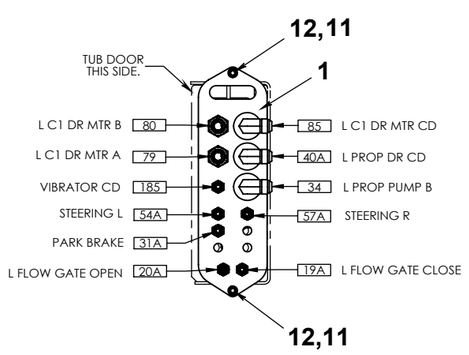
R.H. FRONT VIEW



L.H. FRONT VIEW



LEFT SIDE VIEW



L.H. REAR VIEW

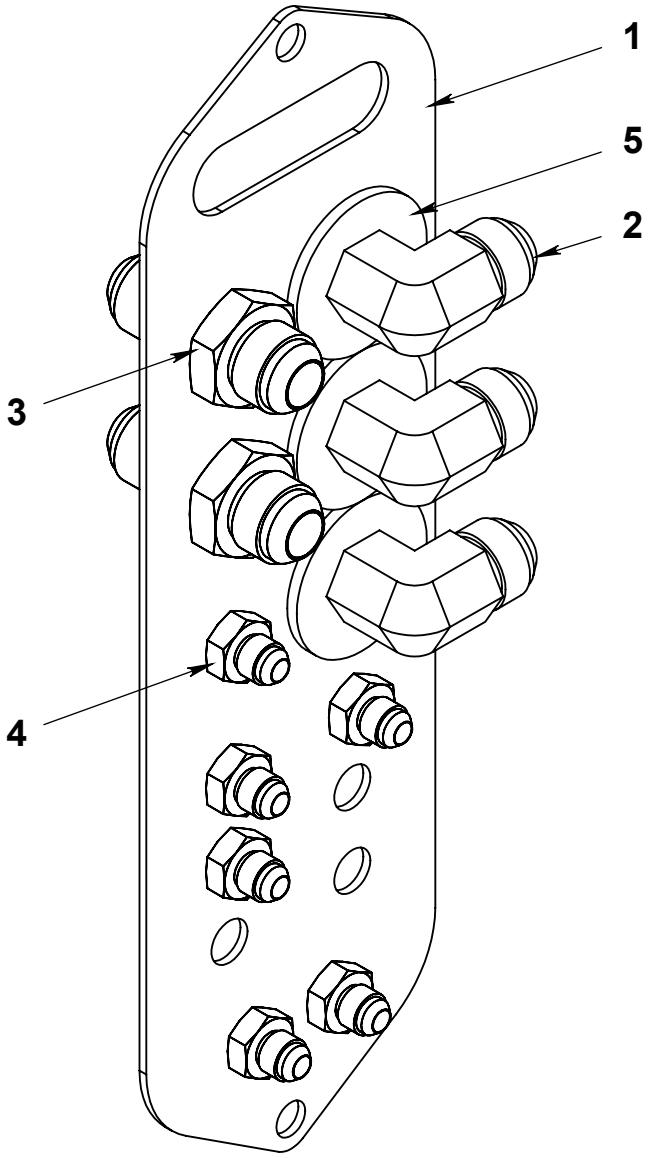
(XX) - ITEM

[XX] - HOSE NUMBER

ASSY. 255625-01 REV. 3/13

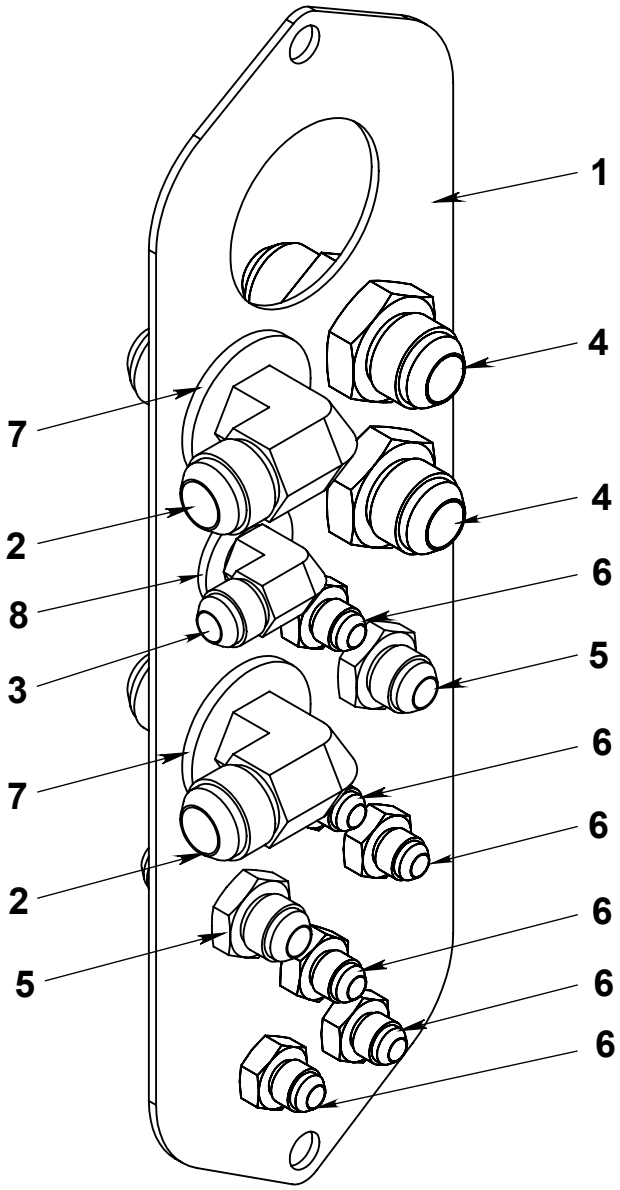
ROADTEC an Astec Industries Company

ASSY- LT HYDRAULIC TUB BULKHEAD
(242090-03)



ITEM #	PART #	DESCRIPTION	QTY.
1	242042-04	DETAIL-LT HYD TUB BULKHEAD PLATE	1
2	99986	FIT * BULKHEAD 12 JIC 90 DEG.	3
3	83476-04	FIT * BULKHEAD UNION 12 JIC	2
4	83475-04	FIT * BULKHEAD UNION 6 JIC ST	6
5	10S89	WASHER ~ FLAT 1" A325	3

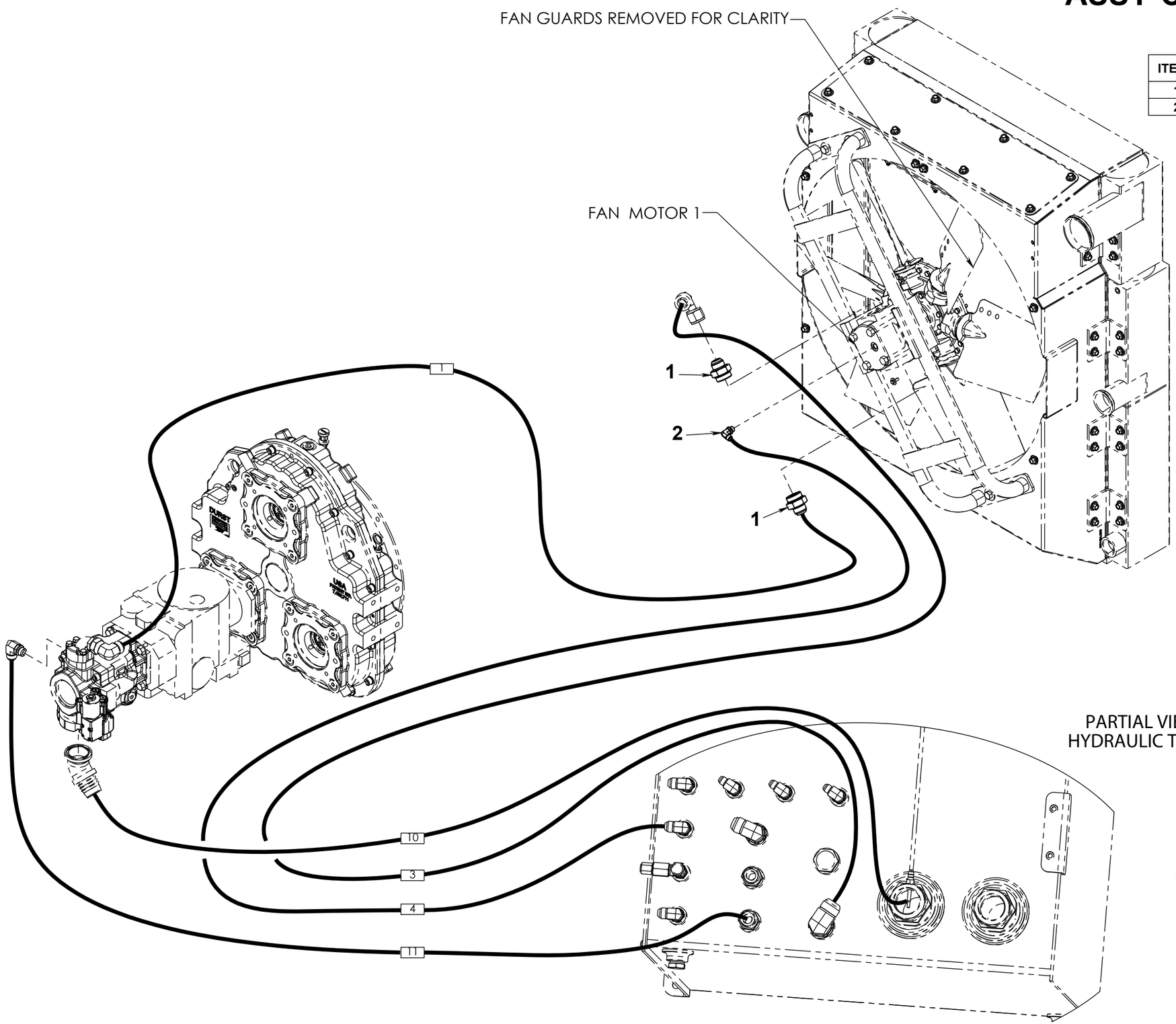
ASSY- RT HYDRAULIC TUB BULKHEAD
(250832-03)



ITEM#	PART #	DESCRIPTION	QTY.
1	250833-04	DETAIL-RT HYD TUB BULKHEAD PLATE	1
2	99986	FIT * BULKHEAD 12 JIC 90 DEG.	2
3	83454-04	FIT * ELBOW 8 JIC 90 BULKHEAD STEEL	1
4	83476-04	FIT * BULKHEAD UNION 12 JIC	2
5	83453-04	FIT * UNION 8 JIC BULKHEAD STEEL	2
6	83475-04	FIT * BULKHEAD UNION 6 JIC ST	6
7	10S89	WASHER ~ FLAT 1" A325	2
8	95937	WASHER * FLAT 3/4" HARD	1

ASSY-COOLING FAN HYDRAULICS
(259245-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	84632-04	FIT * CONNECTOR 16 JIC - 20 SAE M.	2
2	83734-04	FIT * ELBOW 6 JIC - 6 SAE 90 DEG.	1



PARTIAL VIEW
HYDRAULIC TANK

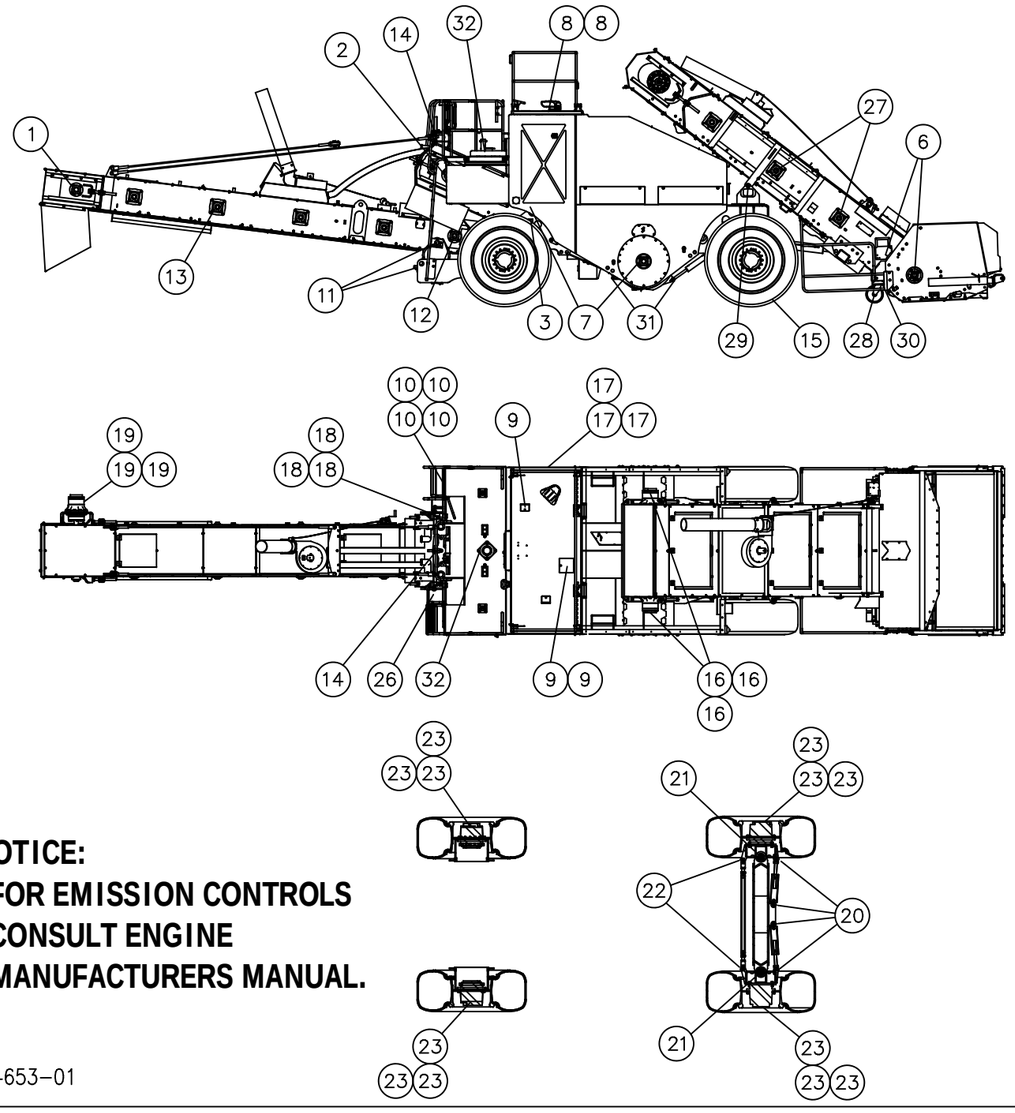
NOTE:
REF. APPROPRIATE HOSEKIT FOR HOSE DETAILS.

(XX) - ITEM

[XX] - HOSE NUMBER

ROADTEC
an Astec Industries Company

SB-2500ex LUBRICATION CHART (ENGLISH)



NOTICE:
FOR EMISSION CONTROLS CONSULT ENGINE MANUFACTURERS MANUAL.

254653-01

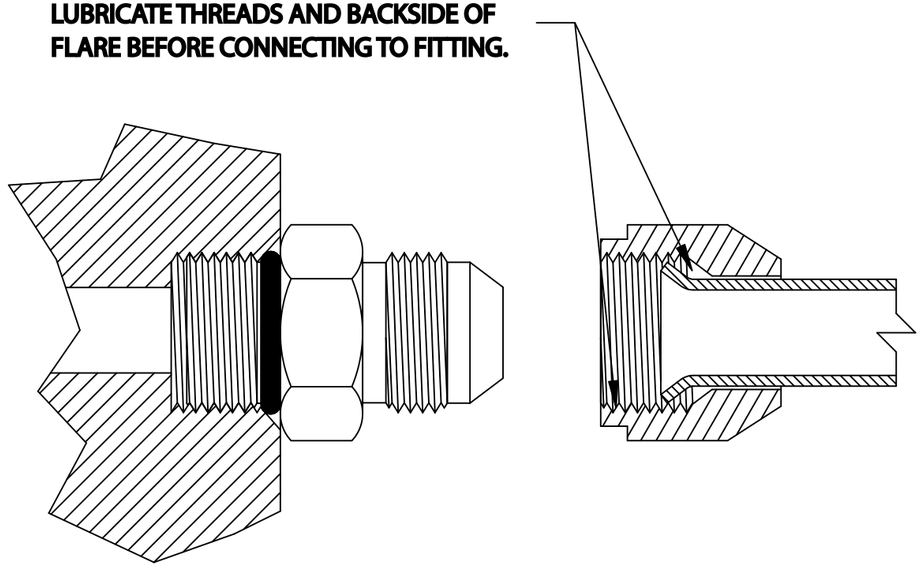
INTERVAL HOURS	REF NO	IDENTIFICATION	NO. OF POINTS	TYPE OF LUBRICATION	REMARKS
RED DAILY	1	C3 HEADSHAFT	1	HTG	8 SHOTS (WHILE HOT)
	2	C2 HEADSHAFT	1	HTG	8 SHOTS (WHILE HOT)
	3	C2 IDLERS	4	HTG	5 SHOTS (WHILE HOT)
	6	C1 TAILSHAFT	4	HTG	8 SHOTS (WHILE HOT)
	7	C2 TAILSHAFT	4	HTG	8 SHOTS (WHILE HOT)
	8	RADIATOR COOLANT	1	50/50 ANTIFREEZE	CHECK LEVEL
	9	ENGINE OIL	1	EO	CHECK LEVEL
	9	ENGINE CRANKCASE COMPONENTS	N/A	VARIOUS	REFER TO ENGINE MANUAL
	10	HYDRAULIC TANK	1	HO	CHECK LEVEL
	11	C3 PIVOT	4	HTG	5 SHOTS
	12	C3 TAILSHAFT	2	HTG	8 SHOTS (WHILE HOT)
	13	C3 IDLER BEARINGS	8	HTG	5 SHOTS (WHILE HOT)
	27	C1 IDLER BEARINGS	6	HTG	5 SHOTS (WHILE HOT)
	28	C1 CASTER WHEEL	4	HTG	3 SHOTS
YELLOW 50 HOURS	9	ENGINE AIR FILTER	2	N/A	CLEAN OR REPLACE
	9	ENGINE OIL AND FILTER	1 EA	EO	CHANGE AT FIRST 50 HRS THEN EVERY 250 HRS
	9	FUEL FILTER	3	N/A	CHANGE AT FIRST 50 HRS THEN EVERY 250 HRS
	10	HYDRAULIC FILTERS	3	N/A	REPLACE ELEMENTS FIRST 50 HRS THEN EVERY 250 HRS
	14	C3 LIFT PIVOT	1	HTG	5 SHOTS
	15	TIRES	4	75 p.s.i.	CHECK PRESSURE
	16	C1 GEARBOX	2	GO	CHECK LEVEL
	17	PUMP DRIVE	1	GO	CHECK LEVEL
	18	C2 GEARBOX	1	GO	CHECK LEVEL
	19	C3 GEARBOX	1	GO	CHECK LEVEL
	20	STEERING CYLINDERS	4	HTG	3 SHOTS
	21	AXLE KINGPINS	4	HTG	3 SHOTS
	22	AXLE TIE RODS	2	HTG	3 SHOTS
	23	GEAR DRIVE W/PARK BRAKE	4	GO	CHECK LEVEL
	29	C1 PIVOT	2	HTG	3 SHOTS
	30	C1 CASTER SWIVEL	2	HTG	3 SHOTS
	31	C2 CLEAN OUT DOORS	4	HTG	3 SHOTS

INTERVAL HOURS	REF NO	IDENTIFICATION	NO. OF POINTS	TYPE OF LUBRICATION	REMARKS
GREEN 250 HOURS	9	ENGINE AIR FILTER	2	N/A	CHECK AND REPLACE (IF NECESSARY)
	9	ENGINE OIL AND FILTER	1 EA	EO	CHANGE
	9	FUEL FILTER	3	N/A	CHANGE
	10	HYDRAULIC TANK	1	HO	DRAIN ACCUMULATED WATER & REFILL
	10	HYDRAULIC FILTERS	4	N/A	REPLACE ELEMENTS IN EACH CANISTER & THE HIGH PRESSURE FILTER
	10	HYDRAULIC TANK BREATHER FILTER	1	N/A	CHECK & REPLACE IF NECESSARY
	16	C1 GEARBOX	2	GO	DRAIN–FLUSH–REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	17	PUMP DRIVE	1	GO	DRAIN–FLUSH–REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	18	C2 GEARBOX	1	GO	DRAIN–FLUSH–REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	19	C3 GEARBOX	1	GO	DRAIN–FLUSH–REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	23	GEAR DRIVE W/PARK BRAKE	4	GO	DRAIN–FLUSH–REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	26	FUEL TANK	1	N/A	DRAIN ACCUMULATED WATER & REFILL
	32	STEERING CONSOLE PIVOT	1	HTG	2 SHOTS
BLUE 1000 HOURS	8	RADIATOR	1	50/50 ANTIFREEZE	DRAIN–CLEAN–REFILL REPLACE CONDITIONER
	10	HYDRAULIC TANK	1	HO	DRAIN & FLUSH OIL–CHANGE ALL FILTERS–CLEAN ALL BREATHERS
	16	C1 GEARBOX	2	GO	DRAIN–FLUSH–REFILL
	17	PUMP DRIVE	1	GO	DRAIN–FLUSH–REFILL
	18	C2 GEARBOX	1	GO	DRAIN–FLUSH–REFILL
	19	C3 GEARBOX	1	GO	DRAIN–FLUSH–REFILL
	23	GEAR DRIVE W/PARK BRAKE	4	GO	DRAIN–FLUSH–REFILL

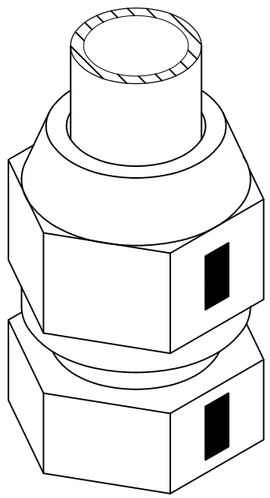
EO – ENGINE OIL–SAE 15W40–VALVOLINE PREMIUM BLUE, ALL–FLEET PLUS OR EQUIVALENT
HTG – HIGH TEMPERATURE GREASE–NGLI GRADE2–VALVOLINE CERULEAN, PALLADIUM, OR EQUIVALENT
HO – HYDRAULIC OIL–ISO VIS. GRADE 46–VALVOLINE ANTI–WEAR HYDRAULIC OIL OR EQUIVALENT
GO – GEAR OIL–EP–90 VALVOLINE HIGH PERFORMANCE GEAR OIL OR EQUIVALENT
(*FOR AXLES, USE MIL–L 2105C 80W/90 OR EQUIVALENT)

Valvoline

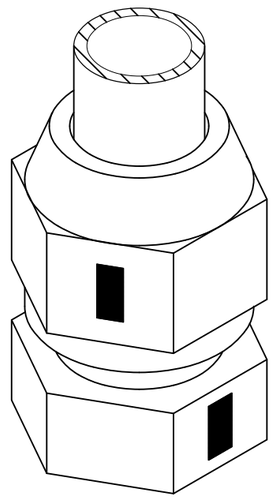
LUBRICATE THREADS AND BACKSIDE OF FLARE BEFORE CONNECTING TO FITTING.



EXAMPLE - 20 JIC HOSE END



SNUG JOINT WITH FLATS MARKED



TIGHT JOINT WITH 1 FLAT FROM WRENCH RESISTANCE

ASSY- JIC FITTING INSTRUCTIONS (134914-02)

JIC FITTING INSTALLATION

USING FLATS FROM WRENCH RESISTANCE (FFWR) METHOD

1) LUBRICATE THE THREADS AND BACKSIDE OF JIC FLARE IN FEMALE SWIVEL NUT. USE PENETRATING OIL, WD-40, OR EQUIVALENT.

2) ASSEMBLE NUT TO MALE JIC FITTING. TIGHTEN TO WRENCH RESISTANCE. (PARKER DEFINES WRENCH RESISTANCE AS 30 IN-LB TORQUE)

3) MAKE A MARK ON ONE FLAT OF NUT HEX AND CONTINUE IT ONTO THE BODY HEX. (WITH EXPERIENCE, IT MAY NOT BE NECESSARY TO MARK THE FITTINGS. RATHER, VISUAL ALIGN THE FLATS AND TIGHTEN AS PER STEP 5.)

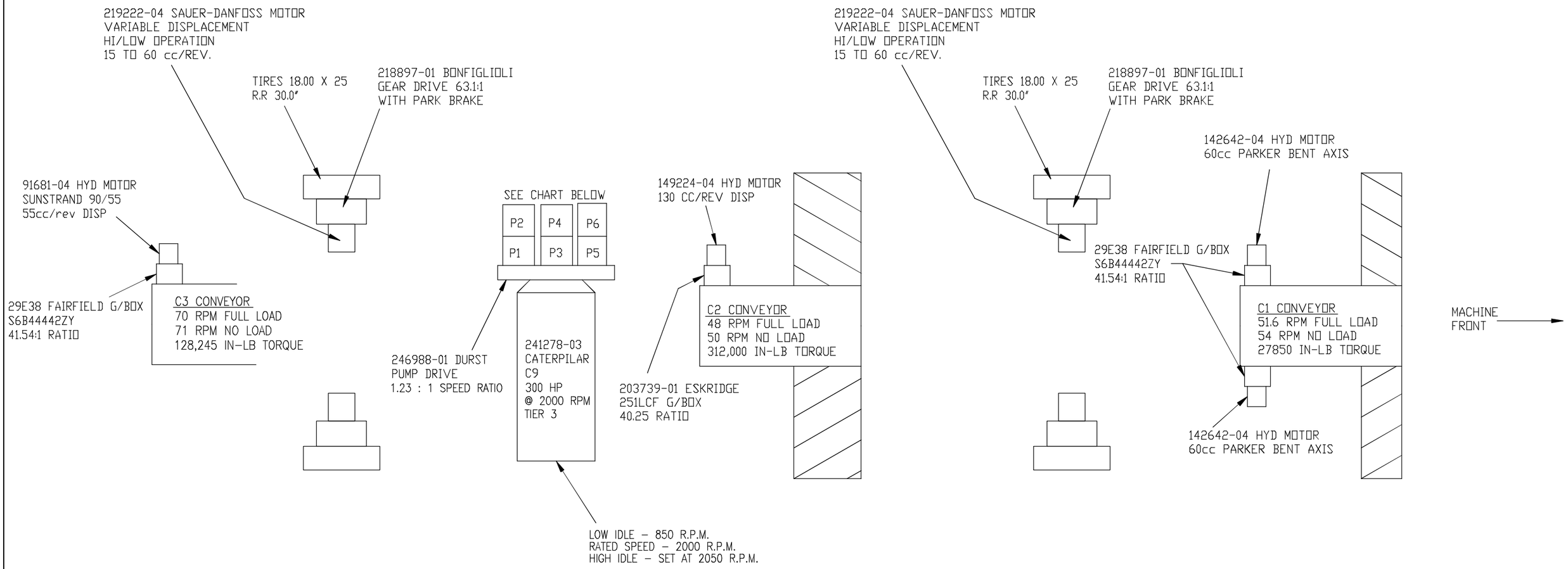
4) WHEN REQUIRED, USE A SECOND WRENCH TO PREVENT UNWANTED ROTATION OF FITTING BODY, HOSE CONNECTOR STEM, ETC.

5) TIGHTEN THE JOINT BY THE NUMBER OF FLATS SHOWN IN THE TABLE BELOW.

SAE DASH SIZE	FLATS FROM WRENCH RESISTANCE
-4	2
-5	2
-6	1-1/2
-8	1-1/2
-10	1-1/2
-12	1-1/4
-16	1
-20	1
-24	1
-32	1

ROADTEC an Astec Industries Company

ALL PUMP AND GEARBOX SPEEDS ARE WHEN ENGINE IS AT FULL LOAD



PUMP CHART

PUMP	PART No	DESCRIPTION	TYPE	SYSTEM RELIEF	CHARGE RELIEF	CHARGE DISP.
P1	233837-04	PROPEL	SAUER 90/100	6500 PSI	350 PSI	31 CC
P2	217790-04	AUXILLIARY	SAUER J60	2500 PSI	N/A	N/A
P3	99814	C2 CONVEYOR	SAUER 90/100	6500 PSI	350 PSI	20 CC
P4	233849-04	C3 CONVEYOR	SAUER 90/75	6200 PSI	350 PSI	17 CC
P5	99814	C1 CONVEYOR	SAUER 90/100	6500 PSI	350 PSI	20 CC
P6	233856-04	COOLING FAN	SAUER J45	2500 PSI	N/A	N/A

TRAVEL SPEED	
LOW (63:1 @ 60cc)	HIGH (63:1 @ 20cc)
267.5 FT/MIN	9.1 MPH (802.25 FPM)

△	I	E	T	N	PF	FC	M	MC	A			

REPLACES DWG. # 236382-01

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'G. BY	APPR. BY
△					

ROADTEC

PART NAME: SPEED CHART–SB–2500EX T3

01 REQ'D PER 2500ex | SHEET NO 1 of 1 | FAB CODE 615 | EFFECTIVE S/N 3008

DRAWN BY JEH | CHECKED BY | DWG NO 255591–01 | REV. 0

SCALE 1 | DATE 1/10/14

PARKER KIT #253787-04 BEGINNING SN 3008 EX SN 3000s

REVISION 0

SB-2500ex-3K TIER 3 C9 LRC

Hose Type Codes

AS400 code	model	description
VAC	Parker 7219 EZ FORM	suction 2"
VAC	Parker 811 for size 20-24/881 for size 12 &	suction
LP	Parker 421 (Use series 43 fittings)	low pressure
STD	Parker 471TC for #4, #6 and #8 hose (Use	medium pressure
STD	Parker 451TC for #12 and #16 (Use series 43	medium pressure
HP797	Parker 797TC (Use series 77 fittings)	high pressure (6000 psi)
HT	Parker 943B (Hoses assembled by Parker	high temperature (450F)
SLEEVE	Partek "PS" series	ISO 6945 protective nylon

YELLOW HIGHLIGHTS INDICATE ITEMS THAT HAVE CHANGED

DOCUMENT CHANGES ON ORIGINAL ONLY

06 ST=STRAIGHT
39 90=ELBOW 90°
41 90LN=ELBOW LONG THROW 90°
37 45=ELBOW

								HOSE END SIZE x HOSE I.D.			
HOSE #	**CIRCUIT**	**ROADTEC PN**	**FUNCTION**	**Tier#**	**HOSE SIZE**	**HOSE TYP**	**HOSE & SLEEVE CUT LENGTH**	**HOSE END #1**	**HOSE END #2**	**SLEEVE PN**	**O.A.L.**
1	COOLING FAN	244466S	FAN PUMP - FAN MTR 1 (90)	1	1	STD	130	16x16 ST	16x16 ST	206128-04	134
2											
3	COOLING FAN	96841S	FAN MTR 2 RETURN (90) - TANK	1	1	STD	110	16x16 ST	16x16 90	206128-04	115
4	COOLING FAN	97815S	FAN MTR 1 CD - HYD TANK	1	0.375	STD	84	6x6 ST	8x6 ST	147462-04	87
5											
6	BRAKES	241511S	DYNAMIC BRAKE VALVE*DB (90) - RR BLKHD TEE BTM	2	0.25	STD	116	6x4 ST	6x4 90	206126-04	119
7	HOOD	130186S	HOOD RAISE HOLD VALVE*B - HAND PMP*HR (90)	4	0.25	STD	132	6x4 ST	6x4 90	206126-04	135
8	HOOD	130186S	HOOD LOWER VALVE*X - HAND PMP*PLT (90)	4	0.25	STD	132	6x4 ST	6x4 90	206126-04	135
9	HOOD	208528S	HOOD LOWER CYL ROD END - AUX RETURN MFLD	4	0.25	STD	144	6x4 ST	6x4 ST	206126-04	147
10	COOLING FAN	251994-03S	FAN PUMP SUC (45) - HYD TANK FILTER w/ TEMP SENSOR	1	2	VAC	28	0688-32-32	1788-32-32	224423-04	
11	COOLING FAN	220020S	FAN PUMP CD - HYD TANK	1	0.75	STD	42	12x12 ST	12x12 ST	206127-04	46
12	FLOWGATES	216362S	FLOWGATES VALVE*PL - PLATFORM CYL RET	2	0.375	STD	158	6x6 ST	6x6 ST	147462-04	161
13	FLOWGATES	120125S	FLOWGATES VALVE*PR - PLATFORM CYL EXT	2	0.375	STD	124	6x6 ST	6x6 ST	147462-04	127
14	COOLING FAN	213201S	FAN RELIEF VALVE*2 - SECOND MTR RETURN	1	0.5	STD	58	8x8 ST	8X8 90	147462-04	61
15	C3 DRIVE	253725S	C3 PUMP*B (90) - MID BLKHD FORWARD	9	1	HP797	135	16x16 ST	16x16 90	206128-04	140
16	C3 DRIVE	244302S	C3 PUMP*A - TOP BLKHD REVERSE	9	1	HP797	120	16x16 ST	16x16 ST	206128-04	125
17	C3 DRIVE	145994	C3 DRIVE MTR*A - TOP BLKHD	9	1	HP797	274	16x16 ST	16x16 ST	NO SLEEVE	279
18	C3 DRIVE	145994	C3 DRIVE MTR*B - MID BLKHD	9	1	HP797	274	16x16 ST	16x16 ST	NO SLEEVE	279
19	A & B HOSES										
20	A & B HOSES										
21	A & B HOSES										
22	A & B HOSES										
23	FLOWGATES	93401-04S	FLOWGATE VALVE*T1 (90) - C3 VALVE*T1	2	0.5	STD	21	8x8 ST	8x8 90	147462-04	24
24	C3 CONTROLS	132363S	C3 VALVE*P (90) - AUX PRESSURE MFLD	3	0.75	STD	11	12x12 ST	12x12 90	206127-04	14.54
25	C3 CONTROLS	128238S	C3 SWING VALVE*SA - LH CYL TOP BASE RUN OF TEE (90)	3	0.25	STD	120	6x4 ST	6x4 90	206126-04	123
26	C3 CONTROLS	128238S	C3 SWING VALVE*SB - LH CYL BTM ROD END RUN OF TEE (90)	3	0.25	STD	120	6x4 ST	6x4 90	206126-04	123
27	C3 CONTROLS	128254S	C3 LIFT VALVE*CR - CYL ROD END (90)	3	0.25	STD	175	6x4 ST	6x4 90	206126-04	178
28	C3 CONTROLS	128254S	C3 LIFT VALVE*CL - CYL BASE (90)	3	0.25	STD	175	6x4 ST	6x4 90	206126-04	178
29	UNASSIGNED										
30	UNASSIGNED										
31	A & B HOSES										
32	C1 HOPPER	250865-04S	C1 COD VALVE*CL - LH CYL BASE	10	0.25	STD	139	6x4 ST	6x4 ST	206126-04	142
33	C1 HOPPER	250865-04S	C1 COD VALVE*CR - LH CYL ROD E.	10	0.25	STD	139	6x4 ST	6x4 ST	206126-04	142
34	PROPEL	248841S	PUMP*B RETURN - LH TUB INNER	7	0.75	HP797	48	16x12 ST	12x12 ST	206128-04	52
35	PROPEL	244692S	DIFF LOCK*A - RR DRIVE BLKHD TEE TOP	7	0.75	HP797	55	12x12 ST	12x12 ST	206128-04	59
36	PROPEL	248843S	PUMP*B RETURN - RR DRIVE BLKHD TEE MID	7	0.75	HP797	137	16x12 ST	12x12 ST	206128-04	141
37	PROPEL	244693S	PUMP*A PR (90) - DIFF LOCK*P	7	1	HP797	52	16x16 ST	16x16 90	206128-04	57
38	PROPEL	99702S	DIFF LOCK*B - RH TUB INNER	7	0.75	HP797	102	12x12 ST	12x12ST	206128-04	106
39	PROPEL	243557S	PROPEL PMP*SUCTION - HYD TANK FILTER (90)	7	1.25	VAC	51	20x20 ST	20x20 90	148915-04	56
40	A & B HOSES										
41	PROPEL	120187S	BTM RR DRIVE BLKHD CD TEE - CD RETRUN MFLD	7	0.75	STD	118	12x12 ST	12x12 ST	206127-04	121
42	BRAKES	129765S	BRAKE HAND PMP PILOT*P (90) - AUX PR MFLD	2	0.375	STD	54	6x6 ST	6x6 90	147462-04	58
43	C2 COD	135627S	C2 COD VALVE*FO - RH HYD TUB BULKHEAD	4	0.375	STD	25	6x6 ST	6x6 90	147462-04	28
44	C2 COD	135627S	C2 COD VALVE*FC - RH HYD TUB BULKHEAD	4	0.375	STD	25	6x6 ST	6x6 90	147462-04	28
45	PROPEL	122761S	HAND PMP*DL (90) - DIFF LOCK*PS	7	0.375	STD	71	6x6 ST	6x6 90	147462-04	74
46	PROPEL	206309S	HAND PMP*T2 - DIFF LOCK*L	7	0.375	STD	67	6x6 ST	6x6ST	147462-04	70

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
47	BRAKES	208103S	BRAKE HAND PMP PILOT*T1 (90) - HYD TANK	2	0.5	STD	95	8x8 ST	8x8 90	147462-04	98
48	C2 COD	93310-04S	C2 COD VALVE*RC - LOWER BULKHEAD TEE	4	0.25	STD	38	6x4 ST	6x4 90	206126-04	41
49	C2 COD	121326S	C2 COD VALVE*T - RETURN MFLD	4	0.375	STD	88	6x6 ST	6x6 ST	147462-04	91
50	C2 COD	132088S	C2 COD VALVE*P - PRESSURE MFLD	4	0.375	STD	96	6x6 ST	6x6 ST	147462-04	99
51	C2 COD	93310-04S	C2 COD VALVE*RO - LOWER BULKHEAD TEE	4	0.25	STD	38	6x4 ST	6x4 90	206126-04	41
52	C2 COD	250807-04S	C2 COD RR CYLINDER BASE END LH - LOWER BULKHEAD TEE	4	0.25	STD	67	6x4 ST	6x4 ST	206126-04	70
53	C2 COD	250807-04S	C2 COD RR CYLINDER ROD END LH - LOWER BULKHEAD TEE	4	0.25	STD	67	6x4 ST	6x4 ST	206126-04	
54	A & B HOSES										
55	STEERING	99707S	STEER VALVE*T (LN90) - AUX RETURN MFLD	5	0.375	STD	151	6x6 ST	6x6 90	147462-04	153
56	STEERING	135628S	STEER VALVE*P (90) - AUX PR MFLD	5	0.375	STD	142	6x6 ST	6x6 90	147462-04	145
57	A & B HOSES										
58	STEERING	99666	STEER JUMP RH CYL BASE - LH CYL ROD END	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29
59	STEERING	99666	STEER JUMP LH CYL BASE - RH CYL ROD END	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29
60	AUX & OIL COOLER	241520S	COOLER OUT - HYD TANK	8	1.5	VAC	104	24x24 ST	24x24 ST	147464-04	109
61	AUX & OIL COOLER	134617S	COOLER IN - CD RETURN MFLD	8	1.5	VAC	78	24x24 ST	24x24 ST	147464-04	122
62	AUX & OIL COOLER	132285S	AUX RETURN MFLD - TANK FLTR (90)	8	0.75	STD	84	12x12 ST	12x12 90	206127-04	88
63	AUX & OIL COOLER	251993-03S	AUX PUMP*SUC - TANK STRAINER	8	2	VAC	28	0688-32-32	1588-32-32	224423-04	
64	AUX & OIL COOLER	243555S	AUX PUMP*PR (90) - HI PRES FLTR	8	1	STD	59	16x16 ST	16x16 90	206128-04	64
65	C1 DRIVE	219324S	C1 PUMP*CD - CD RETURN MFLD	6	0.75	STD	37	12x12 ST	12x12 ST	206127-04	48
66	C2 DRIVE	149742S	C2 PUMP*SUC - HYD TANK FILTER (90)	8	1.25	VAC	47	20x20 ST	20x20 90	148915-04	52
67	C2 DRIVE	132286S	C2 PUMP*CD - CD RETURN MFLD	8	0.75	STD	28	12x12 ST	12x12 ST	206127-04	32
68	C2 DRIVE	148497S	C2 DRIVE MTR*CD - CD RETURN MFLD	8	0.75	STD	80	12x12 ST	12x12 ST	206127-04	84
69	C2 DRIVE	218601S	C2 PUMP*A - C2 DRIVE MTR*B	8	1.25	HP797	78	20x20 ST	20x20 ST	147464-04	83
70	C2 DRIVE	218600S	C2 PUMP*B - C2 DRIVE MTR*A	8	1.25	HP797	72	20x20 ST	20x20 ST	147464-04	77
71	C3 DRIVE	120187S	C3 DRIVE MTR*CD - BTM BLKHD - HYD TANK	9	0.75	STD	118	12x12 ST	12x12 ST	206127-04	121
72	PROPEL	227315-04S	RR DRIVE LH MTR*A (90) - RR DRIVE BLKHD TEE TOP	7	0.75	HP797	36	12x12 ST	12x12 90	206128-04	40
73	PROPEL	227315-04S	RR DRIVE RH MTR*B (90) - RR DRIVE BLKHD TEE TOP	7	0.75	HP797	36	12x12 ST	12x12 90	206128-04	40
74	PROPEL	227315-04S	RR DRIVE LH MTR*B (90) - RR DRIVE BLKHD TEE MID	7	0.75	HP797	36	12x12 ST	12x12 90	206128-04	40
75	PROPEL	227315-04S	RR DRIVE RH MTR*A (90) - RR DRIVE BLKHD TEE MID	7	0.75	HP797	36	12x12 ST	12x12 90	206128-04	40
76	AUX & OIL COOLER	252940S	SYSTEM PRESSURE RELIEF*2 - TANK	8	0.75	STD	43	12x12 ST	16x12 90	206127-04	47
77	C3 DRIVE	134047S	C3 PUMP*CD - HYD TANK (90)	9	0.75	STD	66	12x12 ST	12x12 90	206127-04	70
78	C3 DRIVE	243556S	C3 PUMP*SUC - HYD TANK FILTER (90)	9	1	VAC	55	16x16 ST	16x16 90	206128-04	60
79	C1 DRIVE	248835S	LH C1 PUMP*A REVERSE - LH TUB OUTER (90)	6	0.75	HP797	39	16x12 ST	12x12 90	206128-04	44
80	C1 DRIVE	248836S	LH C1 PUMP*B FORWARD - LH TUB OUTER TOP (90)	6	0.75	HP797	25	16x12 ST	12x12 90	206128-04	30
81	C1 DRIVE	248837S	RH C1 PUMP*B FORWARD - RH TUB OUTER (90)	6	0.75	HP797	99	16x12 ST	12x12 90	206128-04	104
82	C1 DRIVE	248838S	RH C1 PUMP*A REVERSE - RH TUB OUTER TOP (90)	6	0.75	HP797	110	16x12 ST	12x12 90	206128-04	115
83	AUX & OIL COOLER	93321-04S	AUX PUMP*CD - HYD TANK	8	0.75	STD	31	12x12 ST	12x12 ST	206127-04	35
84	C1 DRIVE	244695S	C1 PUMP*SUC (90) - HYD TANK FLTR	6	1.25	VAC	54	20x20 ST	20x20 90	148915-04	59
85	C1 DRIVE	243552S	LH C1 DRIVE MTR*CD - LH TUB INNER TOP - CD RTN MFLD	6	0.75	STD	87	12x12 ST	12x12 ST	206127-04	91
86	C1 DRIVE	120759S	RH C1 DRIVE MTR*CD - RH TUB INNER TOP - CD RTN MFLD	6	0.75	STD	158	12x12 ST	12x12 ST	206127-04	162
87	ENGINE	134358S	DURST DRAIN	1	0.5	STD	89	8x8 ST	8x8 90	147462-04	85
88	C1 HOPPER	250881-04S	VIBRATOR - PR VALVE*V - IN V.MTR	10	0.25	STD	192	6x4 ST	6x4 ST	206126-04	195
89	C1 HOPPER	250882-04S	VIBRATOR - T VALVE*T - OUT V.MTR	10	0.25	STD	180	6x4 ST	6x4 90	206126-04	183
90	C1 HOPPER	130188S	D HOPPER VALVE*HL (90) - RH CYL ROD END	10	0.25	STD	130	6x4 ST	6x4 90	206126-04	133
91	C1 HOPPER	248804S	D HOPPER VALVE*HR (90) - RH CYL BASE	10	0.25	STD	125	6x4 ST	6x4 90	206126-04	128
92	C1 HOPPER	243547S	D HOPPER VALVE*HR - LH CYL BASE	10	0.25	STD	211	6x4 ST	6x4 ST	206126-04	214
93	C1 HOPPER	207854S	D HOPPER VALVE*HL - LH CYL ROD END	10	0.25	STD	222	6x4 ST	6x4 ST	206126-04	225
94	C1 HOPPER	141419S	C1 HPR CTRLS VALVE*T - C1 LIFT VALVE*T (90)	10	0.5	STD	130	8x8 ST	8x8 90	147462-04	133
95	C1 HOPPER	130984S	C1 HPR CTRLS VALVE*P - C1 LIFT VALVE*P (90)	10	0.375	STD	130	6x6 ST	6x6 90	147462-04	133
96	A & B HOSES										
97	A & B HOSES										
98	C1 RAISE	99665	C1 LIFT VALVE*B (90) - RH C1 LIFT CYL ROD END	10	0.375	STD	26	6x6 ST	6x6 90	NO SLEEVE	29
99	C1 RAISE	99666	C1 LIFT VALVE*A - LH C1 LIFT CYL BASE	10	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29
100	C1 RAISE	120164	C1 LIFT VALVE*A (90) - RH C1 LIFT CYL BASE	10	0.375	STD	23	6x6 ST	6x6 90	NO SLEEVE	26
101	C1 RAISE	120826	C1 LIFT VALVE*B - LH C1 LIFT CYL ROD END	10	0.375	STD	23	6x6 ST	6x6 ST	NO SLEEVE	26
102	PROPEL	248920S	FR DRIVE LH MTR*CD (90) - FR DRIVE BLKHD TEE	7	0.5	STD	46	12x8 ST	8x8 90	206128-04	49
103	PROPEL	248920S	FR DRIVE RH MTR*CD (90) - FR DRIVE BLKHD TEE	7	0.5	STD	46	12x8 ST	8x8 90	206128-04	49
104	PROPEL	207858S	RR DRIVE RH MTR*CD (90) - RR DRIVE BLKHD TEE BTM	7	0.5	STD	38	12x8 ST	8x8 90	206128-04	41
105	PROPEL	146207S	RR DRIVE LH MTR*CD (90) - RR DRIVE BLKHD TEE BTM	7	0.5	STD	42	12x8 ST	8x8 90	206128-04	45

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
106	C1 DRIVE	93348-04	RH C1 DRIVE MTR*CD - RH TUB INNER TOP	6	0.75	STD	168	12x12 ST	12x12 ST	NO SLEEVE	172
107	C1 DRIVE	93348-04	LH C1 DRIVE MTR*CD - LH TUB INNER TOP	6	0.75	STD	168	12x12 ST	12x12 ST	NO SLEEVE	172
108	C1 DRIVE	238452-04	LH C1 DRIVE MTR*B PR - LH TUB OUTER TOP	6	0.75	HP797	168	12x12 ST	12x12 ST	NO SLEEVE	172
109	C1 DRIVE	238452-04	LH C1 DRIVE MTR*A RETURN - LH TUB OUTER	6	0.75	HP797	168	12x12 ST	12x12 ST	NO SLEEVE	172
110	C1 DRIVE	238452-04	RH C1 DRIVE MTR*A PR - RH TUB OUTER	6	0.75	HP797	168	12x12 ST	12x12 ST	NO SLEEVE	172
111	C1 DRIVE	238452-04	RH C1 DRIVE MTR*B RETURN - RH TUB OUTER TOP	6	0.75	HP797	168	12x12 ST	12x12 ST	NO SLEEVE	172
112	PROPEL	244467S	PROPEL PUMP*CD - CD RETURN MFLD	7	0.75	STD	12	12x12 ST	12x12 ST	206127-04	28
113	ENGINE	134521S	ENG OIL DRAIN	1	0.75	STD	50	12x12 ST	12x12 ST	206127-04	69
114	BRAKES	93330-04S	DYN BRAKE RH CALP - RR BLKHD TEE BTM	2	0.25	STD	45	4x4 ST	6x4 ST	206126-04	32.5
115	BRAKES	93330-04S	DYN BRAKE LH CALP - RR BLKHD TEE BTM	2	0.25	STD	45	4x4 ST	6x4 ST	206126-04	32.5
116	UNASSIGNED										
117	C3 DRIVE	127788	C3 DRIVE MTR*CD - BTM BLKHD	9	0.75	STD	274	12x12 ST	12x12 ST	NO SLEEVE	278
118	C2 COD	250812-04S	C2 COD RR CYLINDER BASE END RH - LOWER BULKHEAD TEE	4	0.25	STD	15	6X4 ST	6X4 ST	206126-04	18
119	C2 COD	219098-04S	C2 COD RR CYLINDER ROD END RH - LOWER BULKHEAD TEE	4	0.25	STD	20	6X4 ST	6X4 ST	206126-04	23
120	FUME-X	132161S	FXS *PR - FXS VALVE*AUX (90)	11	0.5	STD	108	8x8 ST	8x8 90	147462-04	111
121	UNASSIGNED										
122	C3 CONTROLS	93294-04S	C3 SWING JUMPER LH CYL TOP - RH CYL TOP (90)	3	0.25	STD	42	6x4 ST	6x4 90	206126-04	45
123	C3 CONTROLS	93294-04S	C3 SWING JUMPER LH CYL BTM - RH CYL BTM (90)	3	0.25	STD	42	6x4 ST	6x4 90	206126-04	45
124	FUME-X	134469S	FXS VALVE*T - HYD TANK	11	0.5	STD	128	8x8 ST	8x8 ST	147462-04	131
125	BRAKES	130288S	DYN BRAKE JUMPER LH 1ST	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
126	BRAKES	130288S	DYN BRAKE JUMPER RH 2ND	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
127	BRAKES	130288S	DYN BRAKE JUMPER LH 1ST	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
128	BRAKES	130288S	DYN BRAKE JUMPER RH 2ND	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
129	FUME-X	248758S	FXS C3 BLKHD*RETURN - HYD TANK	11	0.5	STD	173	8x8 ST	8x8 ST	147462-04	177
130	FUME-X	137663S	FXS C1 MTR*RETURN - RH TUB INNER	11	0.5	STD	115	8x8 ST	8x8 ST	147462-04	119
131	FUME-X	130139S	FXS C1 MTR*PR - RH TUB OUTER	11	0.5	STD	110	8x8 ST	8x8 ST	147462-04	113
132	C3 CONTROLS	248823S	C3 COD BLKHD RH (45) - CYL BASE	3	0.25	STD	52	6x4 ST	6x4 45	206126-04	55
133	C3 CONTROLS	248824S	C3 COD BLKHD LH (45) - CYL ROD END	3	0.25	STD	48	6x4 ST	6x4 45	206126-04	51
134	C3 CONTROLS	130200S	C3 COD VALVE*CB - BLKHD RH	3	0.25	STD	102	6x4 ST	6x4 ST	206126-04	105
135	C3 CONTROLS	130200S	C3 COD VALVE*CA - BLKHD LH	3	0.25	STD	102	6x4 ST	6x4 ST	206126-04	105
136	C3 CONTROLS	130003	C3 VALVE*T (90) - AUX RETURN MFLD	3	0.75	STD	12	12x12 ST	12x12 90	206127-04	16
137	FLOWGATES	93401-04S	FLOWGATE VALVE*P1 (90) - C3 VALVE*P1	2	0.5	STD	21	8x8 ST	8x8 90	147462-04	24
138	C1 HOPPER	129837S	C1 COD VALVE*CL - RH BASE CYL	10	0.25	STD	58	6x4 ST	6x4 90	206126-04	61
139	C1 HOPPER	129837S	C1 COD VALVE*CR - RH ROD E.CYL	10	0.25	STD	58	6x4 ST	6x4 90	206126-04	61
140	BRAKES	134487S	RR PARK BRAKE VALVE*B (90) - RR BLKHD TEE TOP	2	0.25	STD	114	6x4 ST	6x4 90	206126-04	117
141	BRAKES	120147S	RR RH PARK BRAKE - TOP BLKHD TEE	2	0.25	STD	45	6x4 ST	6x4 ST	206126-04	48
142	BRAKES	134196S	FR LH PARK BRAKE - FR BLKHD TEE	2	0.25	STD	59	6x4 ST	6x4 ST	206126-04	62
143	BRAKES	120147S	RR LH PARK BRAKE - TOP BLKHD TEE	2	0.25	STD	45	6x4 ST	6x4 ST	206126-04	48
144	BRAKES	134196S	FR RH PARK BRAKE - FR BLKHD TEE	2	0.25	STD	59	6x4 ST	6x4 ST	206126-04	62
145	UNASSIGNED										
146	C1 DRIVE	201296-04	RH C1 DRIVE MTR*B RETURN - THRU RH TUB OUTER TOP	6	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
147	C1 DRIVE	201296-04	RH C1 DRIVE MTR*A PR - THRU RH TUB OUTER	6	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
148	C1 DRIVE	201296-04	LH C1 DRIVE MTR*B PR - THRU LH TUB OUTER TOP	6	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
149	C1 DRIVE	201296-04	LH C1 DRIVE MTR*A RETURN - THRU LH TUB OUTER	6	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
150	PROPEL	201296-04	FR DRIVE MTR'S*RETURN -THRU LH TUB INNER	7	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
151	PROPEL	201296-04	FR DRIVE MTR'S*PR - THRU RH TUB INNER	7	0.75	HP797	96	12x12 ST	12x12 ST	NO SLEEVE	100
152	C1 DRIVE	125466	RH C1 DRIVE MTR*CD - THRU RH TUB INNER TOP	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
153	PROPEL	125466	FR DRIVE MTR'S*CD BK HD TEE - THRU LH TUB INNER	7	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
154	C1 DRIVE	125466	LH C1 DRIVE MTR*CD - THRU LH TUB INNER TOP	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
155	FUME-X	134514	FXS C1 MTR*RT - THRU RH TUB INNER	11	0.5	STD	96	8x8 ST	8x8 ST	NO SLEEVE	99
156	FUME-X	93339-04	FXS C1 MTR*PR - THRU RH TUB OUTER	11	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE	101
157	C1 RAISE	93339-04	C1 AUX RETURN MFLD -THRU RH TUB INNER	10	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE	101
158	C1 RAISE	201298	C1 AUX PR MFLD -THRU RH TUB OUTER	10	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
159	STEERING	201298	L STEER*L - THRU LH TUB OUTER	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
160	STEERING	201298	R STEER*R - THRU LH TUB INNER	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
161	FUME-X	97828	FXS C3 MTR*PR - BLKHD	11	0.5	STD	105	8x8 ST	8x8 ST	NO SLEEVE	108
162	FUME-X	248769	FXS C3 MTR*RETURN - BLKHD	11	0.5	STD	112	8x8 ST	8x8 ST	NO SLEEVE	116
163	FUME-X	125140	FXS C3 MTR*CD - BLKHD	11	0.375	STD	115	6x6 ST	6x6 ST	NO SLEEVE	118
164	BRAKES	134495	FR PARK BRAKE BLK HD - THRU LH TUB OUTER	2	0.25	STD	98	6x4 ST	6x4 ST	NO SLEEVE	101

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
165	FUME-X	130208S	FXS VALVE*M - RH TUB OUTER (LN90)	11	0.5	STD	34	8x8 ST	8x8 90	147462-04	21
166	PROPEL	225606-04S	FR DRIVE LH MTR*B TOP (45) - LH TUB INNER	7	0.75	HP797	98	12x12 ST	12x12 45	206128-04	102
167	PROPEL	225606-04S	FR DRIVE RH MTR*B BTM (45) - RH TUB INNER	7	0.75	HP797	98	12x12 ST	12x12 45	206128-04	102
168	PROPEL	227317-04S	FR DRIVE RH MTR*A TOP (45) - LH TUB INNER	7	0.75	HP797	115	12x12 ST	12x12 45	206128-04	120
169	PROPEL	227317-04S	FR DRIVE LH MTR*A BTM (45) - RH TUB INNER	7	0.75	HP797	115	12x12 ST	12x12 45	206128-04	120
170	AUX & OIL COOLER	130014S	AUX PR MFLD (90) - HI PRES FLTR	8	0.75	STD	28	12x12 ST	12x12 90	206127-04	32
171	C1 HOPPER	130191S	C1 BAFFLE OPEN VALVE *BL (90) - CYL ROD END	10	0.25	STD	72	6x4 ST	6x4 90	206126-04	75
172	C1 HOPPER	129837S	C1 BAFFLE CLOSE VALVE *BR (90) - CYL BASE	10	0.25	STD	58	6x4 ST	6x4 90	206126-04	61
173	FUME-X	148614S	FXS C1 MTR*CD - RH TUB MID	11	0.375	STD	110	6x6 ST	6x6 ST	147462-04	113
174	FUME-X	201298	FXS C1 MTR*CD - THRU RH TUB MID	11	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
175	FUME-X	130894S	FXS C1 MTR*CD RH TUB MID (90) - HYD TANK	11	0.375	STD	130	6x6 ST	6x6 90	147462-04	133
176	FUME-X	121361S	FXS C3 BLK HD*CD - HYD TANK	11	0.375	STD	160	6x6 ST	6x6 ST	147462-04	163
177	UNASSIGNED										
178	C1 PUSH ROLLER	121672S	PUSH ROLLER VALVE*T - C1 LIFT VALVE*T1 (90)	10	0.5	STD	118	8x8 ST	8X8 90	147462-04	121
179	C1 PUSH ROLLER	121546S	PUSH ROLLER VALVE*P - C1 LIFT VALVE*P1 (90)	10	0.375	STD	120	6x6 ST	6x6 90	147462-04	123
180	C1 PUSH ROLLER	120967S	PUSH ROLLER VALVE*A1 - LH CYL BASE	10	0.25	STD	120	6x4 ST	6x4 ST	206126-04	123
181	C1 PUSH ROLLER	141457S	PUSH ROLLER VALVE*B (90) - LH CYL ROD END	10	0.25	STD	126	6x4 ST	6x4 90	206126-04	129
182	C1 PUSH ROLLER	201302S	PUSH ROLLER VALVE*A2 - RH CYL BASE	10	0.25	STD	208	6x4 ST	6x4 ST	206126-04	211
183	C1 PUSH ROLLER	201279S	PUSH ROLLER VALVE*B - RH CYL ROD END	10	0.25	STD	220	6x4 ST	6x4 ST	206126-04	223
184	C1 RAISE	215255	VIBRATOR CD - THRU LH TUB OUTER	10	0.25	STD	98	6x4 ST	6x4 ST	NO SLEEVE	101
185	C1 RAISE	129725	VIBRATOR CD - LH TUB OUTER - HYD TANK	10	0.25	STD	97	6x4 ST	6x4 ST	206126-04	100
186	C1 HOPPER	224067-04S	VIBRATOR CD - V.MTR*CD - BLK HD @ C1 LIFT MFLD BKT	10	0.25	STD	270	4x4 ST	6x4 ST	206126-04	273
187	C1 RAISE	215258S	VIBRATOR CD - BLK HD @ C1 LIFT MFLD BKT - LH TUB OUTER (45)	10	0.25	STD	102	6x4 ST	6x4 45	206126-04	105
188	FUME-X	248807S	FXS C3 BLK HD*PR - C1 MTR*RETURN RH TUB INNER	11	0.5	STD	170	8x8 ST	8x8ST	147462-04	173
189	UNASSIGNED										
190	C2 COD	201298	C2 COD RH TUB LOWER - THRU TUB	4	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
191	C2 COD	201298	C2 COD RH TUB MID - THRU TUB	4	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
192	C2 COD	248878	C2 COD FR RH CYL BASE END - RH TUB FR	4	0.375	STD	82	6x6 90	6x6 ST	147462-04	85
193	C2 COD	126910	C2 COD FR RH CYL ROD END - RH TUB FR	4	0.375	STD	86	6x6 ST	6x6 90	147462-04	89
194	C2 COD	97279-04	C2 COD FR LH CYL BASE END - RH TUB FR	4	0.375	STD	36	6x6 ST	6x6 ST	147462-04	39
195	C2 COD	97279-04	C2 COD FR LH CYL ROD END - RH TUB FR	4	0.375	STD	36	6x6 ST	6x6 ST	147462-04	39
196	UNASSIGNED										
197	UNASSIGNED										
198	UNASSIGNED										
199	UNASSIGNED										
200	GREASE LINE	230816-04	C1 FOOTSHAFT INNER BRNGS RH	1	0.25	919	67.6	4x4 ST	4 x ZERK ST	NO SLEEVE	69
201	GREASE LINE	230816-04	C1 FOOTSHAFT INNER BRNGS LH	1	0.25	919	67.6	4x4 ST	4 x ZERK ST	NO SLEEVE	69
202	GREASE LINE	235578	C1 CENTER IDLER BRNGS RH	1	0.25	919	31	4x4 ST	4 x ZERK ST	NO SLEEVE	34
203	GREASE LINE	235578	C1 CENTER IDLER BRNGS LH	1	0.25	919	31	4x4 ST	4 x ZERK ST	NO SLEEVE	34
204	GREASE LINE	230675-04	C1 REAR IDLER BRNGS RH	1	0.25	919	95	4x4 ST	4 x ZERK ST	NO SLEEVE	98
205	GREASE LINE	230675-04	C1 REAR IDLER BRNGS LH	1	0.25	919	95	4x4 ST	4 x ZERK ST	NO SLEEVE	98
206	GREASE LINE	235580	C2 FOOTSHAFT INNER BRNGS RH	1	0.25	919	99	4x4 ST	4 x ZERK ST	NO SLEEVE	103
207	GREASE LINE	235580	C2 FOOTSHAFT INNER BRNGS LH	1	0.25	919	99	4x4 ST	4 x ZERK ST	NO SLEEVE	103
208	GREASE LINE	236951	C2-IDLER BRNGS 1ST RH	1	0.25	919	42	4x4 ST	4 x ZERK ST	NO SLEEVE	45
209	GREASE LINE	235581	C2-IDLER BRNGS 1ST LH	1	0.25	919	33	4x4 ST	4 x ZERK ST	NO SLEEVE	36
210	GREASE LINE	235581	C2-IDLER BRNGS 2ND RH	1	0.25	919	33	4x4 ST	4 x ZERK ST	NO SLEEVE	36
211	GREASE LINE	236951	C2-IDLER BRNGS 2ND LH	1	0.25	919	42	4x4 ST	4 x ZERK ST	NO SLEEVE	45
212	GREASE LINE	235581	C3-DRIVE BRNG RH	1	0.25	919	33	4x4 ST	4 x ZERK ST	NO SLEEVE	36
213	GREASE LINE	235582	C3 PIVOT BOX TUBE LH	1	0.25	919	14.5	4x4 ST	4 x ZERK ST	NO SLEEVE	17.5
214	GREASE LINE	235582	C3 PIVOT BOX TUBE RH	1	0.25	919	14.5	4x4 ST	4 x ZERK ST	NO SLEEVE	17.5
215	UNASSIGNED										
216	UNASSIGNED										
217	UNASSIGNED										
218	UNASSIGNED										
219	UNASSIGNED										
220	UNASSIGNED										
221	SEE TEST HOSE KIT										
222	SEE TEST HOSE KIT										
223	SEE TEST HOSE KIT										

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
224	SEE TEST HOSE KIT										
225	SEE TEST HOSE KIT										
226	SEE TEST HOSE KIT										
227	SEE TEST HOSE KIT										
228	SEE TEST HOSE KIT										
229	SEE TEST HOSE KIT										
230	SEE TEST HOSE KIT										
231	SEE TEST HOSE KIT										
232	SEE TEST HOSE KIT										
233	SEE TEST HOSE KIT										
19A	FLOWGATES	241526S	FLOWGATES VALVE*FB - LH TUB INNER	2	0.25	STD	13	6x4 ST	6x4 ST	206126-04	16
19B	FLOWGATES	231534-04	FLOWGATES LH TUB INNER - LH CYLROD END	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE	76
20A	FLOWGATES	99093S	FLOWGATES VALVE*FA - LH TUB OUTER	2	0.25	STD	15	6x4 ST	6x4 ST	206126-04	18
20B	FLOWGATES	231535-04	FLOWGATES LH TUB OUTER - LH CYL BASE	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE	68
21A	FLOWGATES	217149S	FLOWGATES VALVE*RB - RH TUB OUTER (LN90)	2	0.25	STD	112	6x4 ST	6x4 LN 90	206126-04	115
21B	FLOWGATES	231534-04	FLOWGATES RH TUB OUTER - RH CYL ROD END	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE	76
22A	FLOWGATES	128022S	FLOWGATES VALVE*RA - RH TUB INNER (90)	2	0.25	STD	112	6x4 ST	6x4 90	206126-04	115
22B	FLOWGATES	231535-04	FLOWGATES RH TUB INNER - RH CYL BASE	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE	68
31A	BRAKES	120107S	FR PARK BRAKE VALVE*B - LH TUB OUTER	2	0.25	STD	34	6x4 ST	6x4 ST	206126-04	37
31B	BRAKES	204038S	FR PARK BRAKE LH TUB OUTER (45) - FR BLKHD TEE	2	0.25	STD	80	6x4 ST	6x4 45	206126-04	83
40A	PROPEL	134523S	FR DRIVE*CD LH TUB INNER - CD RETURN MFLD	7	0.75	STD	86	12x12 ST	12x12 ST	206127-04	88
40B	PROPEL	213607S	FR DRIVE MTR*CD FR BK HD TEE - LH TUB INNER (90)	7	0.75	STD	74	12x12 ST	12x12 90	206127-04	78
54A	STEERING	254710S	L STEER VALVE*L - LH TUB OUTER	5	0.375	STD	187	6x6 ST	6x6 90	147462-04	190
54B	STEERING	224375S	L STEER LH TUB OUTER (45) - LH CYL BASE	5	0.375	STD	96	6x6 ST	6x6 45	147462-04	98.7
57A	STEERING	243549S	R STEER VALVE*R (90) - LH TUB INNER	5	0.375	STD	183	6x6 ST	6x6 90	147462-04	186
57B	STEERING	224375S	R STEER LH TUB INNER (45) - RH CYL BASE	5	0.375	STD	96	6x6 ST	6x6 45	147462-04	98.7
96A	C1 RAISE	99646S	C1 LIFT AUX RETURN MFLD - RH TUB INNER (90)	10	0.5	STD	107	8x8 ST	8x8 90	147462-04	110
96B	C1 RAISE	200387S	C1 LIFT VALVE*T1 - RH TUB INNER (45)	10	0.5	STD	120	8x8 ST	8x8 45	147462-04	123
97A	C1 RAISE	242885S	C1 LIFT AUX PR MFLD - RH TUB OUTER (LN90)	10	0.375	STD	102	6x6 ST	6x6 90	147462-04	105
97B	C1 RAISE	217152S	C1 LIFT VALVE*P1 - RH TUB OUTER (45)	10	0.375	STD	120	6x6 ST	6x6 45	147462-04	123

MISCELLANEOUS ITEMS SHIPPED IN HOSE KIT FROM PARKER			
1	BRAKE HYDRAULICS	131913-04	VALVE, BALL 6 SAE
1	WASHDOWN	89010-04	VALVE, BALL 1/4 N.P.T.

REVISION	DATE	DESCRIPTION	BY

DELETIONS FROM PREVIOUS KIT

LEGEND

FRONT -FR	RR- REAR
LEFT HAND -LH	RH- RIGHT HAND
LEFT -L	R- RIGHT
PRESSURE -PR	*- FOLLOWED BY LETTER STAMPED ON VALVE
TO - -	(90) HOSE FITTING END OF HOSE LOCATION

REVISION 0

HOSE KIT * SB-2500e/ex TEST PORTS

DOCUMENT CHANGES ON ORIGINAL
O6 ST=STRAIGHT
39 90=ELBOW 90 DEGREE
41 90LN=ELBOW LONG THROW 90 DEG
37 45=ELBOW 45 DEGREE

Hose Type Codes

AS400	model	description
VAC	Parker 811 for size 20-32/881 for size	suction
LP	Parker 421 (Use series 43 fittings)	low pressure
STD	Parker 471TC for #4, #6 and #8 hose	medium pressure
STD	Parker 451TC for #12 and #16 (Use	medium pressure
HP797	Parker 797TC (Use series 77 fittings)	high pressure (6000 psi)
HT	Parker 943B (Hoses assembled by	high temperature (450F)
SLEEVE	Partek "PS" series	ISO 6945 protective nylon

YELLOW HIGHLIGHTS INDICATE ITEMS THAT HAVE CHANGED

								HOSE END SIZE x HOSE I.D.			
HOSE #	**CIRCUIT**	**ROADTEC PN**	**FUNCTION**	**Tier#**	**HOSE SIZE**	**HOSE TYP**	**HOSE & SLEEVE CUT LENGTH**	**HOSE END #1**	**HOSE END #2**	**SLEEVE PN**	**O.A.L.**
221	ENGINE	252635S	FAN PRESSURE - TEST PORT BULKHEAD FAN	1	0.25	STD	51	4x4 ST	4x4 ST	206126-04	53
222	ENGINE	99079S	PROPEL REVERSE PRESSURE*B - TEST PORT BULKHEAD DR	1	0.25	STD	60	4x4 ST	4x4 ST	206126-04	62
223	ENGINE	252634S	PROPEL CHARGE PRESSURE - TEST PORT BULKHEAD DC	1	0.25	STD	47	4x4 ST	4x4 ST	206126-04	49
224	ENGINE	252636S	PROPEL FORWARD PRESSURE*A - TEST PORT BULKHEAD DF	1	0.25	STD	56	4x4 ST	4x4 ST	206126-04	58
225	ENGINE	252701S	C1 REVERSE PRESSURE*A - TEST PORT BULKHEAD C1R	1	0.25	STD	54	4x4 ST	4x4 ST	206126-04	56
226	ENGINE	252632S	C1 CHARGE PRESSURE - TEST PORT BULKHEAD C1C	1	0.25	STD	41	4x4 ST	4x4 ST	206126-04	43
227	ENGINE	252634S	C1 FORWARD PRESSURE*B - TEST PORT BULKHEAD C1F	1	0.25	STD	47	4x4 ST	4x4 ST	206126-04	49
228	ENGINE	252632S	C2 REVERSE PRESSURE*B - TEST PORT BULKHEAD C2R	1	0.25	STD	41	4x4 ST	4x4 ST	206126-04	43
229	ENGINE	250516S	C2 CHARGE PRESSURE - TEST PORT BULKHEAD C2C	1	0.25	STD	50	4x4 ST	4x4 ST	206126-04	52
230	ENGINE	252633S	C2 FORWARD PRESSURE*A - TEST PORT BULKHEAD C2F	1	0.25	STD	44	4x4 ST	4x4 ST	206126-04	46
231	ENGINE	120720S	C3 REVERSE PRESSURE*A - TEST PORT BULKHEAD C3R	1	0.25	STD	65	4x4 ST	4x4 ST	206126-04	67
232	ENGINE	252635S	C3 CHARGE PRESSURE - TEST PORT BULKHEAD C3C	1	0.25	STD	51	4x4 ST	4x4 ST	206126-04	53
233	ENGINE	99079S	C3 FORWARD PRESSURE*B - TEST PORT BULKHEAD C3F	1	0.25	STD	60	4x4 ST	4x4 ST	206126-04	63

MANUAL OVERRIDE
"B" "O" "A"

M5 M4 X1 X2 M3 PROPEL PUMP

M1 A FORWARD

6500 PSI

65.3 GPM MAX

20.2 GPM

2460 RPM
FULL LOAD

6.10 CID
100 CC

1.89 CID
31 CC

350 PSI

6500 PSI

M2 B

L1 S L2

OIL COOLER
300 PSI MAX

RETURN
FILTER
3 MICRON
ABSOLUTE

10 MICRON
SUCTION
FILTER

M6 M4 M3 M1
A
MAX DISP
ELECTRIC SHIFT
M9
X3,M5
B M2
L1,L2

REAR DRIVES

FRONT DRIVES

A B
.047 ORIFICE
P1 P2
P1 P2
PS P (UP TO 55 GPM) L

PROPEL CIRCUIT

REPLACES DWG #251164-01 EX SN 3000s

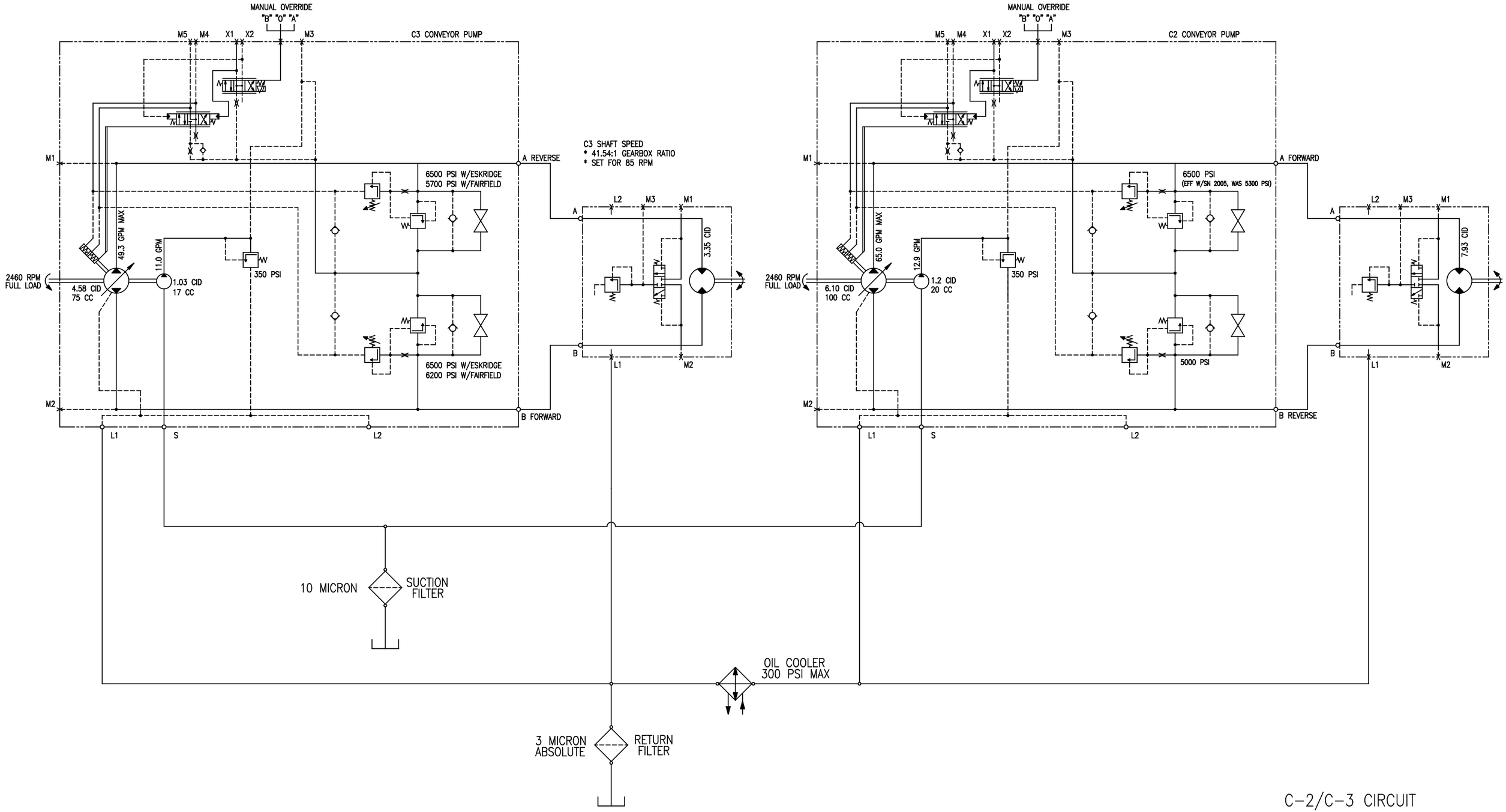
"E" "F" "G"
MATCH WITH LINES ON SHEET 4

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'G. BY	APPR. BY

ROADTEC

PART NAME: SCHEMATIC–HYDRAULIC SB–2500EX–3K			
01 REQ'D PER 2500ex	SHEET NO: 1 of 6	FAB CODE: 615	EFFECTIVE S/N: 3008
DRAWN BY: BL	CHECKED BY:	DWG NO: 253788–01	REV: 0
SCALE: 3/4	DATE: 11/19/13		



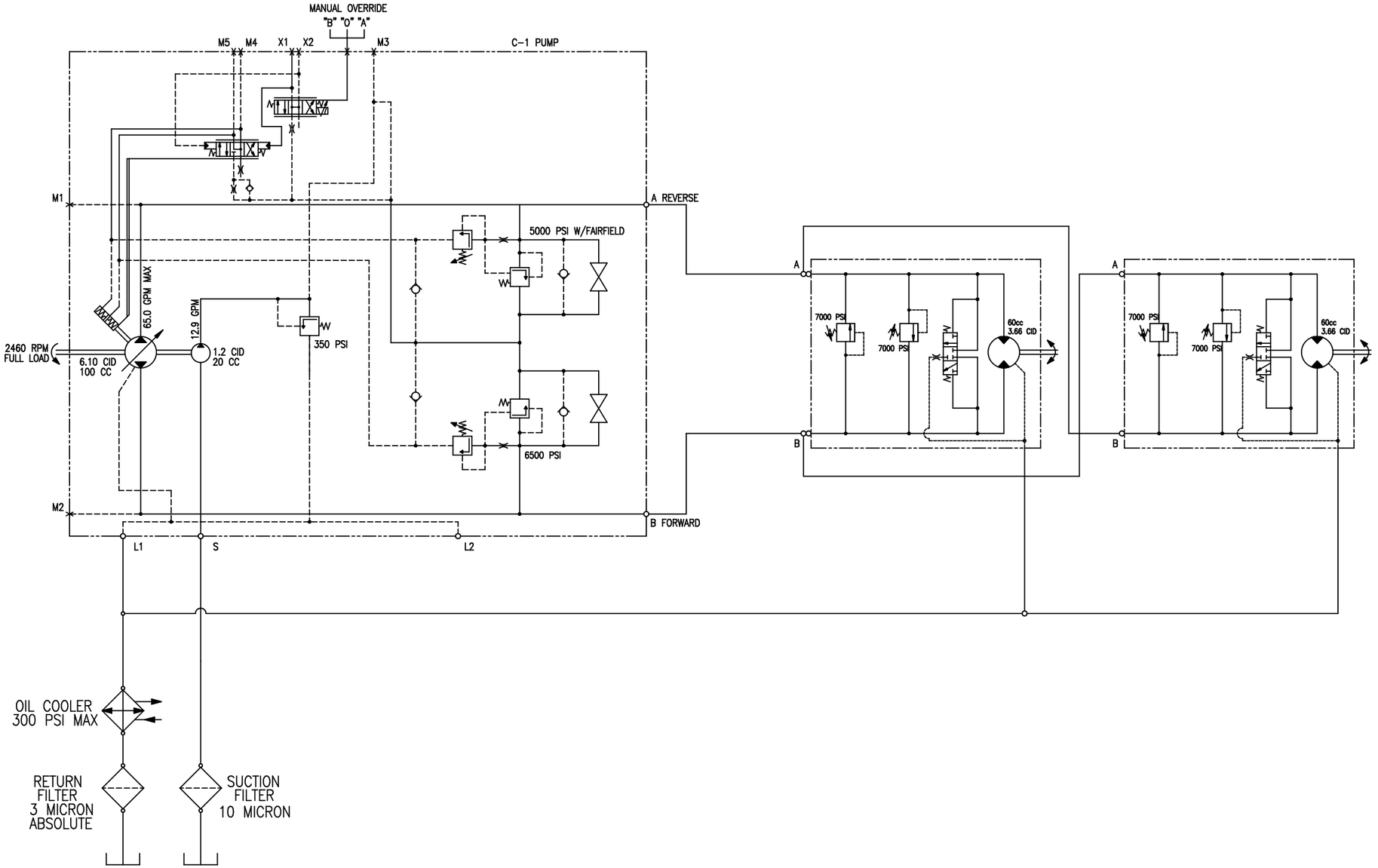
C-2/C-3 CIRCUIT

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'Q. BY	APPR. BY

ROADTEC

PART NAME: SCHEMATIC–HYDRAULIC SB–2500EX–3K			
01 REQ'D PER 2500ex	SHEET NO: 2 of 6	FAB CODE: 615	EFFECTIVE S/N: 3008
DRAWN BY: BL	CHECKED BY:		
SCALE: 3/4	DATE: 11/19/13	DWG NO: 253788–01	REV: 0



C-1 CIRCUIT

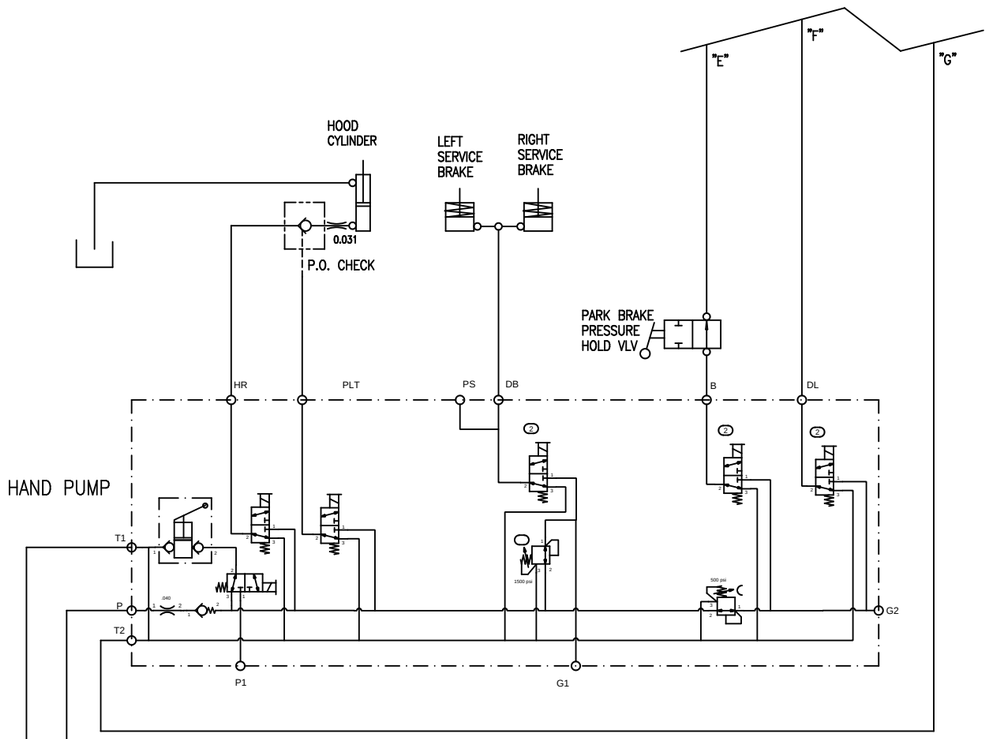
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'Q. BY	APPR. BY

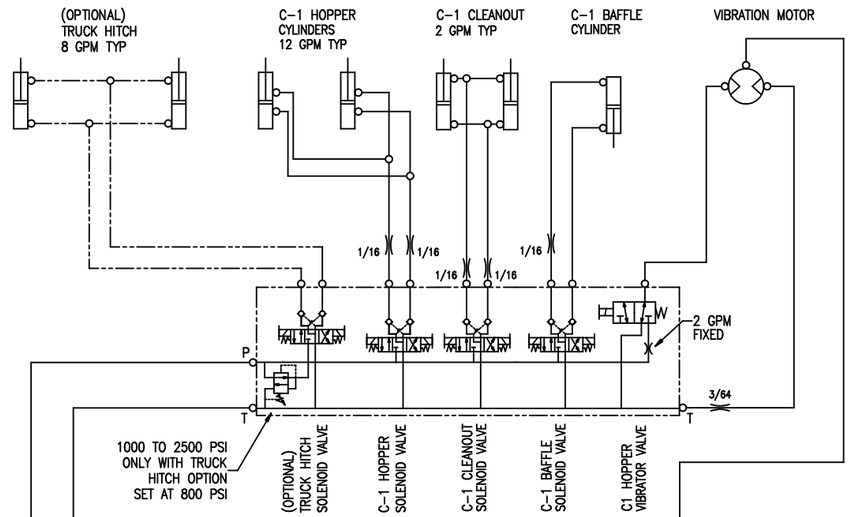
ROADTEC

PART NAME: SCHEMATIC–HYDRAULIC SB–2500EX–3K			
01 REQ'D PER 2500ex	SHEET NO: 3 of 6	FAB CODE: 615	EFFECTIVE S/N: 3008
DRAWN BY: BL	CHECKED BY:	DWG NO: 253788–01	REV: 0
SCALE: 3/4	DATE: 11/19/13		

MATCH WITH LINES ON SHEET 1

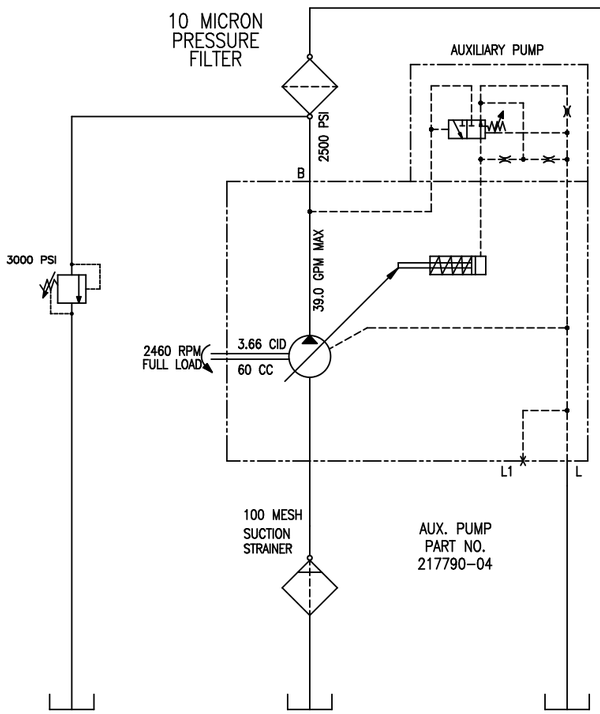


HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 235771-03



C1 HOPPER CONTROL
MANIFOLD PART NO.
235752-01

NOTE: STANDARD MANIFOLD TO BE EQUIPPED WITH BLANKING PLATES (PLUGS) AT TRUCK HITCH STATION (SOLENOID VALVE AND REDUCING VALVE)



"A"

"B"

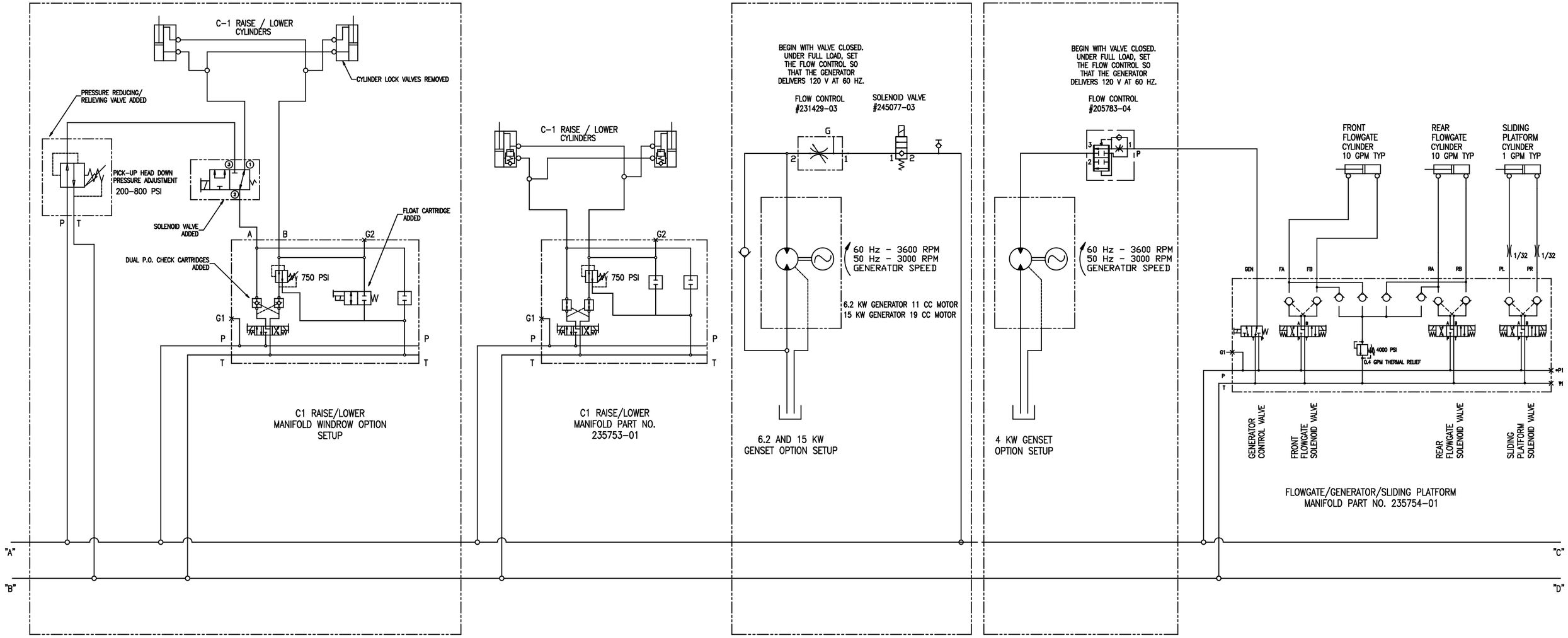
AUXILIARY CIRCUIT

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'G. BY	APPR. BY

ROADTEC

PART NAME: SCHEMATIC-HYDRAULIC SB-2500EX-3K			
01 REQ'D PER 2500ex	SHEET NO: 4 of 6	FAB CODE	EFFECTIVE S/N: 3008
DRAWN BY: BL	CHECKED BY	DWG NO: 253788-01	REV: 0
SCALE: 3/4	DATE: 11/19/13		



AUXILIARY CIRCUIT (CON'T)

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'G. BY	APPR. BY

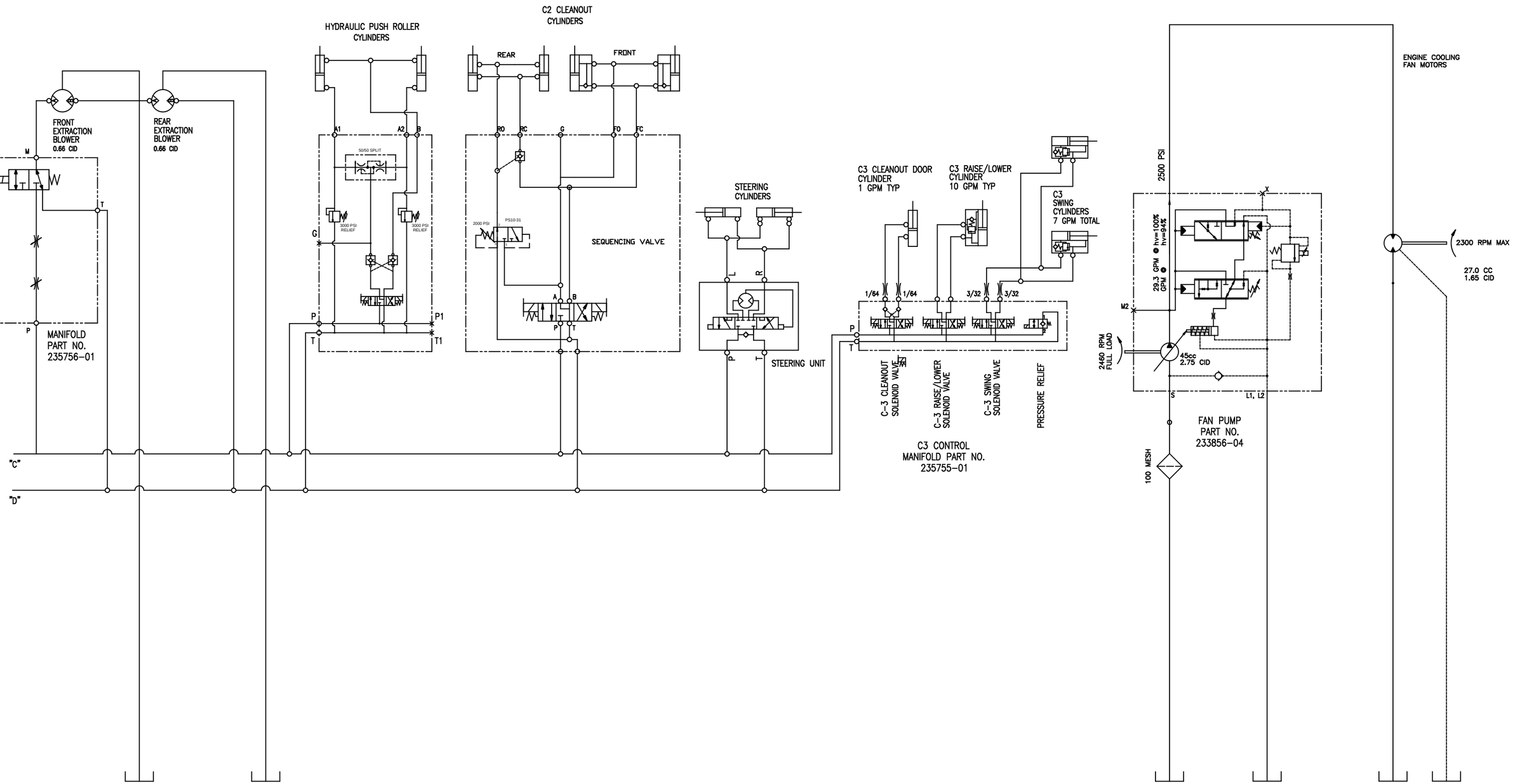
ROADTEC

PART NAME: SCHEMATIC-HYDRAULIC SB-2500EX-3K

01 REQ'D PER 2500ex | SHEET NO 5 of 6 | FAB CODE 615 | EFFECTIVE S/N 3008

DRAWN BY BL | CHECKED BY | DWG NO 253788-01 | REV. 0

SCALE 3/4 | DATE 11/19/13



AUXILIARY CIRCUIT (CON'T)

COOLING FAN CIRCUIT

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	E.C.N.	DATE	REVISIONS	CH'D. BY	APPR. BY

ROADTEC

PART NAME: SCHEMATIC–HYDRAULIC SB–2500EX–3K

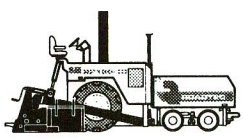
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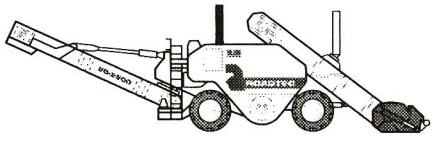
DRAWN BY BL | CHECKED BY | SCALE 3/4 | DATE 11/19/13 | DWG NO 253788–01 | REV. 0

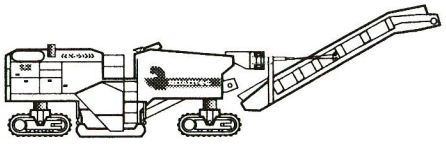
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TOLL FREE 800-272-7100







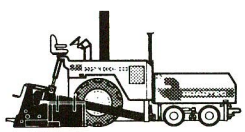
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

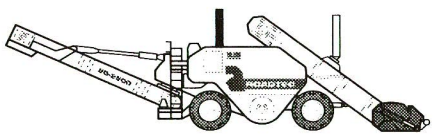
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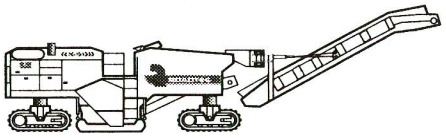
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SECTION 6 : ELECTRICAL

ASSEMBLY	PART NO.	S/N	PAGE NO.
ELECTRICAL	254609-01	3008 & UP	6.1
MAIN JUNCTION BOX	251582-01		6.9
OPERATOR CONSOLE	253887-01		6.19
JOYSTICK	242168-04		6.26
R.H. C-1 CONTROL BOX	252089-01		6.27
L.H. C-1 CONTROL BOX	252090-01		6.31
STROBE LIGHT KIT	214370-01		6.35
KIT- WIRE HARNESS'S & BOXES	253886-01		6.37
CONTROLLER ASSY.	254088-04		6.38
BEACON LED LIGHT	248014-02		6.39
REVERSING ALARM	215976-03		6.40
C2 CLEAN-OUT DOOR SWITCH	251842-03		6.41
ASSEMBLY- ROAD LIGHT PACKAGE 24 VDC	245223-01		6.42
SCHEMATIC	252257-01		

ASSY- ELECTRICAL SB-2500eX
(254609-01)

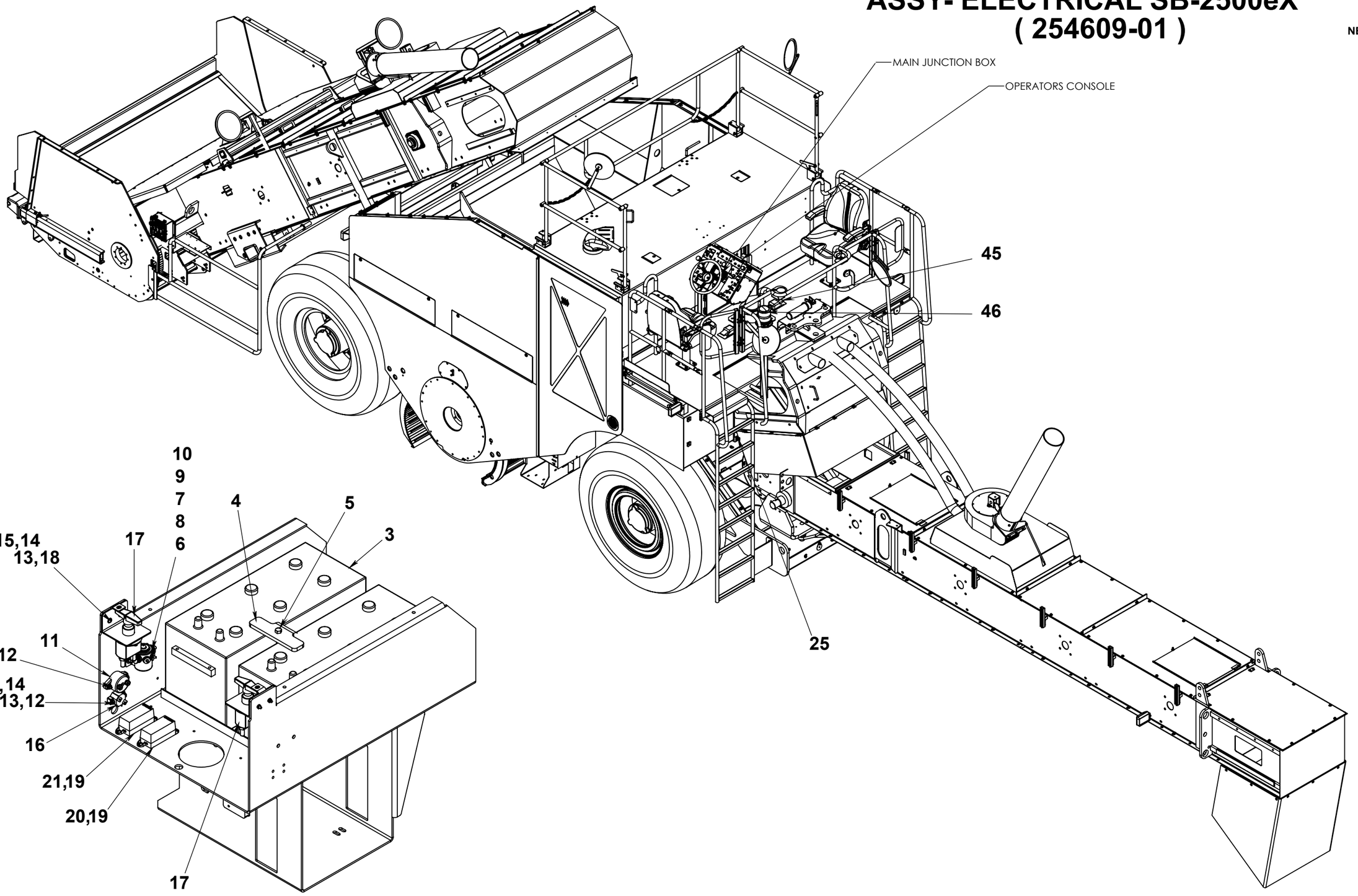
ITEM #	PART #	DESCRIPTION	QTY.
1	252557-01	SCHEMATIC * ELECTRICAL - SB-2500E	1
2	253885-04	KIT * ELECTICAL-SB-2500E	1
3	11S35	ELEC * BATTERY WET CHARGED 4D 12V	2
4	241959-03	DETAIL-SB BATTERY HOLD DOWN BAR	1
5	251934-04	BOLT * HEX 3/8-16 X 10 GRADE 8	1
6	135728-04	ELEC * POWER RELAY 24VDC 65 AMP	1
7	89988-04	BOLT * HEX 1/4"-20 X 3/4"	11
8	84444	WASHER * FLAT 1/4" STEEL	18
9	83065	WASHER * LOCK 1/4" SPRING STEEL	13
10	89772	NUT * 1/4"-20 HEX GRADE 8	5
11	20z54	CIRCUIT BREAKER 60 AMP	1
12	135807-04	MACH-SCREW SLOTTED HEAD 10-32 X 1	4
13	92552	WASHER * FLAT #10	20
14	90103	WASHER * LOCK #10	12
15	90102	NUT * 10-32 UNF HEX	12
16	90930-04	BREAKER * CIRCUIT 40 AMP	1
17	130644	SWITCH * BATTERY ISOLATION	2
18	90101	SCREW SLOTTED HEAD 10-32 X 3/4	8
19	202046-04	FUSE * HOLDER-MEGA FUSE	2
20	202045-04	FUSE 100A FAST ACTING	1
21	209165-04	FUSE 150A FAST ACTING	1
22	215976-03	ASSY-ALARM REVERSING	1
23	89773	BOLT * HEX 1/4"-20 X 1"	2
24	97779-04S	ALARM * SINGLE HORN 24 VOLT	1
25	97490-C1	SWITCH * COVER (CUTLER HAMMER)	3
26	139471	SWITCH * TOGGLE MOMENTARY SPRING SPDT	1
27	13E68	SWITCH * TOGGLE SP ST ON/OFF	1
28	136784-04	SWITCH * TOGGLE	1
29	201439	ELEC * PLUG 3-PIN	1
30	254609-01-1	WIRE TIE * 1/8" X 7" NYLON - 300	1
31	254609-01-2	WIRE TIE * 1/8" X 5 1/2" NYLON - 200	1
32	254609-01-3	WIRE TIE * 1/4" X 14" NYLON - 200	1
33	254609-01-4	ELEC * RED TAPE	1
34	141038	ELEC * TAPE 3/4" (60 YD/ROLL)	1
35	212370-04	ELEC * DEUTSCH LOCKING WEDGE W3S	1
36	133741-04	ELEC * SEALING PLUG	3
37	206399-04	ELEC * DT CONNECTOR 2 PIN PLUG	3
38	206402-04	ELEC * SECONDARY LOCK 2 PIN PLUG	3
39	133746-04	ELEC * SOCKET CONTACT SIZE 16-18	6
40	208323-04	ELEC * PLUG SINGLE-ENDED CORDSET	2
41	245223-01	ASSEMBLY-ROAD LIGHT PACKAGE 24VDC	1
42	97735	WIRE * FEMALE INSL.SPADE TERMINAL	18
43	38Z57	WIRE * TERMINAL 16-14 GA.MALE INSUL	18
44	133521-04	ELECT * STA-KON TERMINAL	6
45	257840-03	SWITCH * FOOT, IP68 WATERPROOF	2

ASSY- ELECTRICAL SB-2500eX
(254609-01)

ITEM #	PART #	DESCRIPTION	QTY.
46	248014-02	ASSEMBLY ~ BEACON LED LIGHT	1
47	251842-03	ASSEMBLY-C2 CLEAN OUT DOOR SWITCH	1
48	83757	WASHER ~ FLAT 3/8 STEEL	4
49	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
50	84332	BOLT * HEX 3/8"-16 X 1"	5
51	90871	WASHER ~ FLAT 5/16" STEEL	4
52	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	4
53	89297	BOLT * HEX 5/16"-18 X 1"	4
54	254595-02	WIRE HARNESS* SB-2500EX ENGINE	1
55	133744-04	ELEC * 6 PIN PLUG	4
56	241650-04	ELEC - 6-PIN DEUTSCH WEDGE LOCK COMM SERIES	2
57	133745-04	DEUTSCH LOCKING WEDGE 6 PIN SOCKET	2

ASSY- ELECTRICAL SB-2500eX
(254609-01)

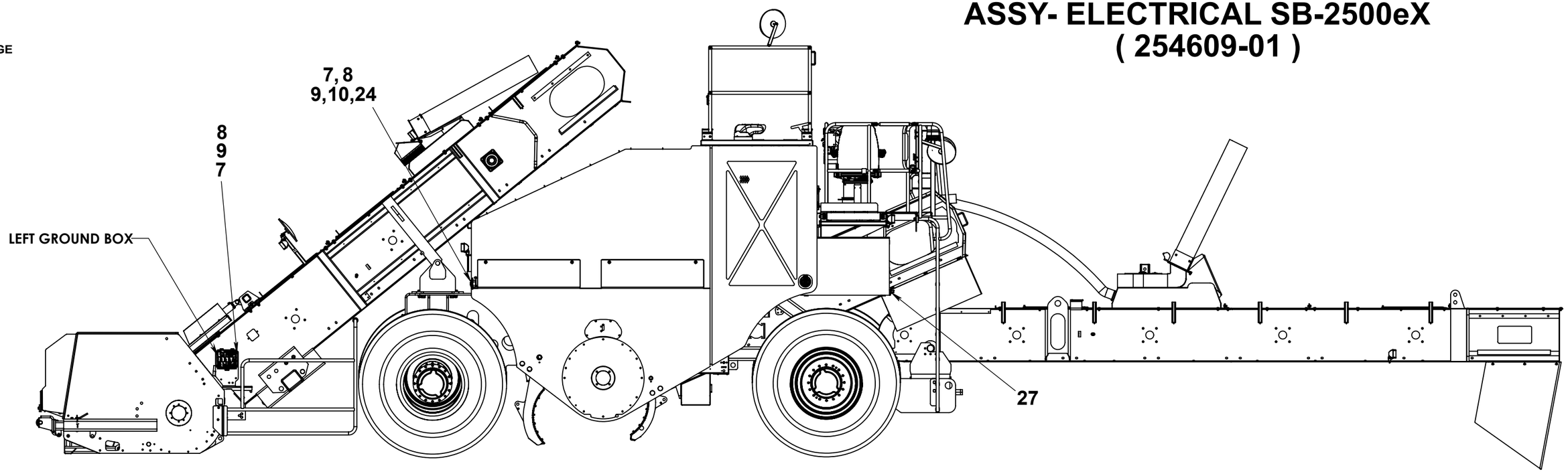
NEXT PAGE



BATTERY COMPARTMENT

PREVIOUS PAGE

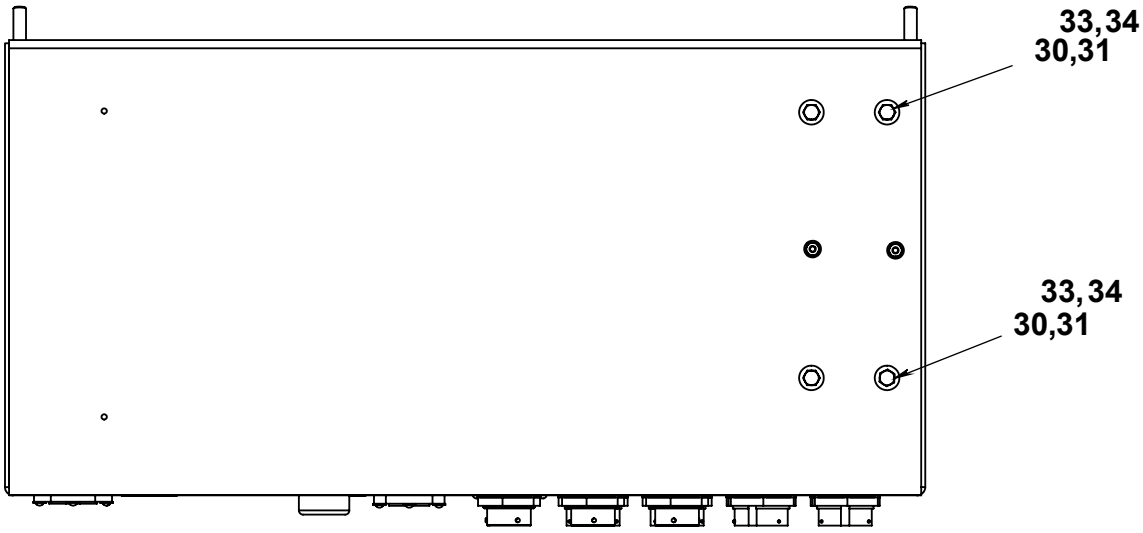
ASSY- ELECTRICAL SB-2500eX
(254609-01)



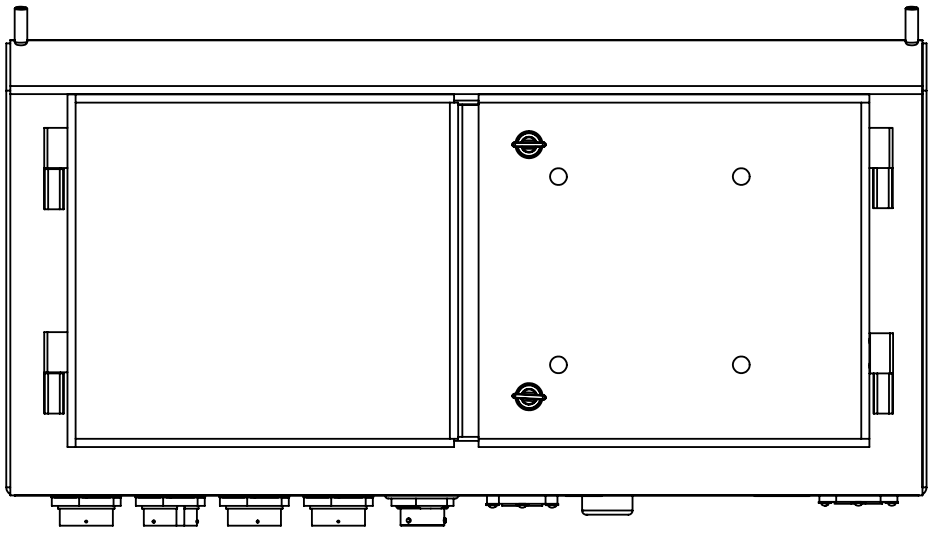
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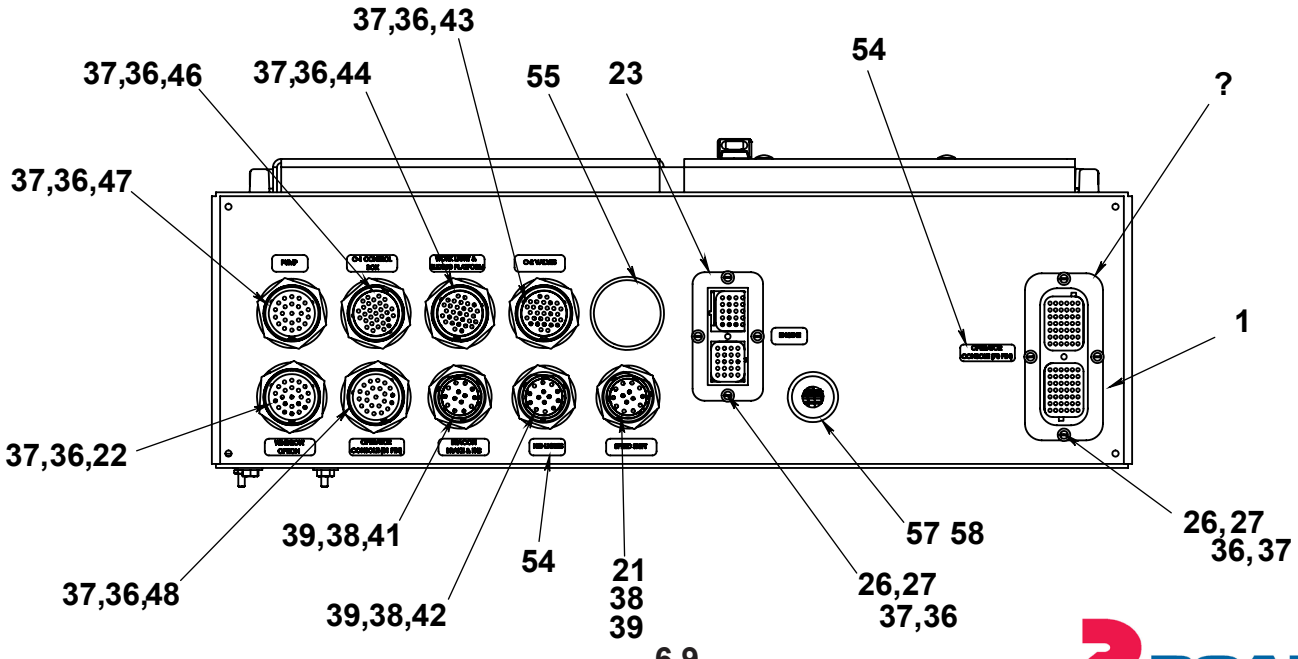
ASSY- MAIN JUNCTION BOX, SB-2500e
(251582-01)

NEXT PAGE

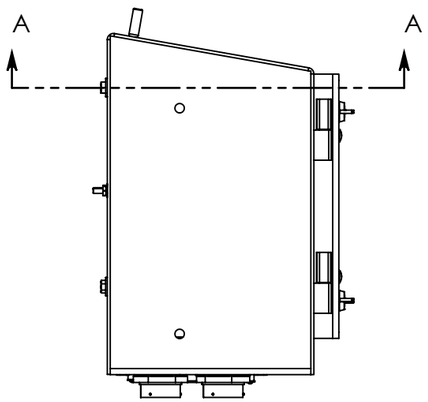


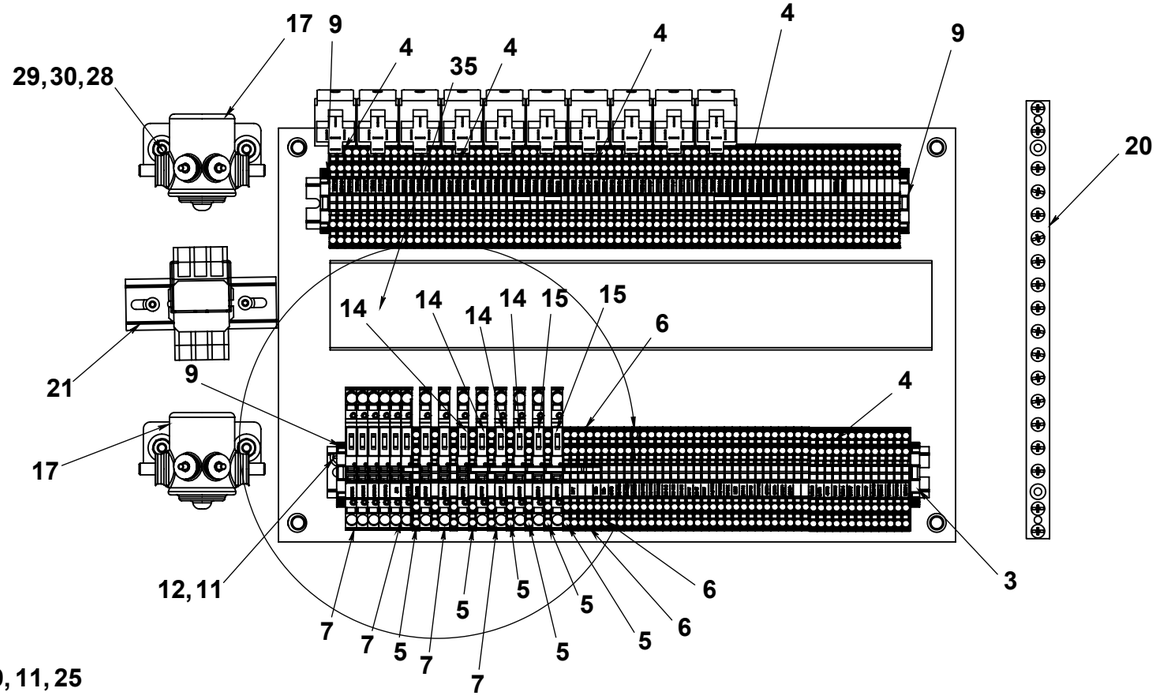
BACK OF BOX

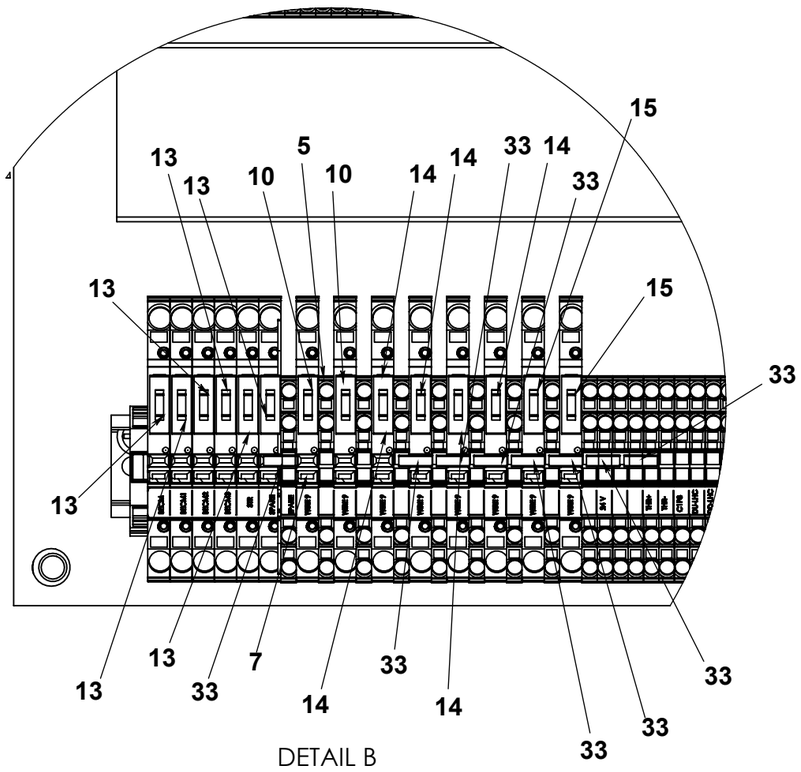




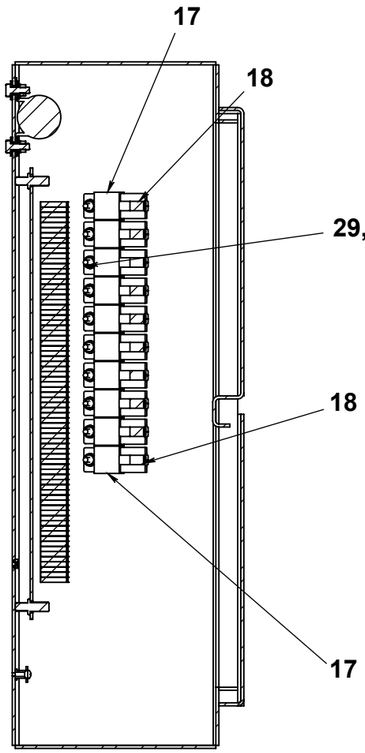
ASSY- MAIN JUNCTION BOX, SB-2500e
(251582-01)



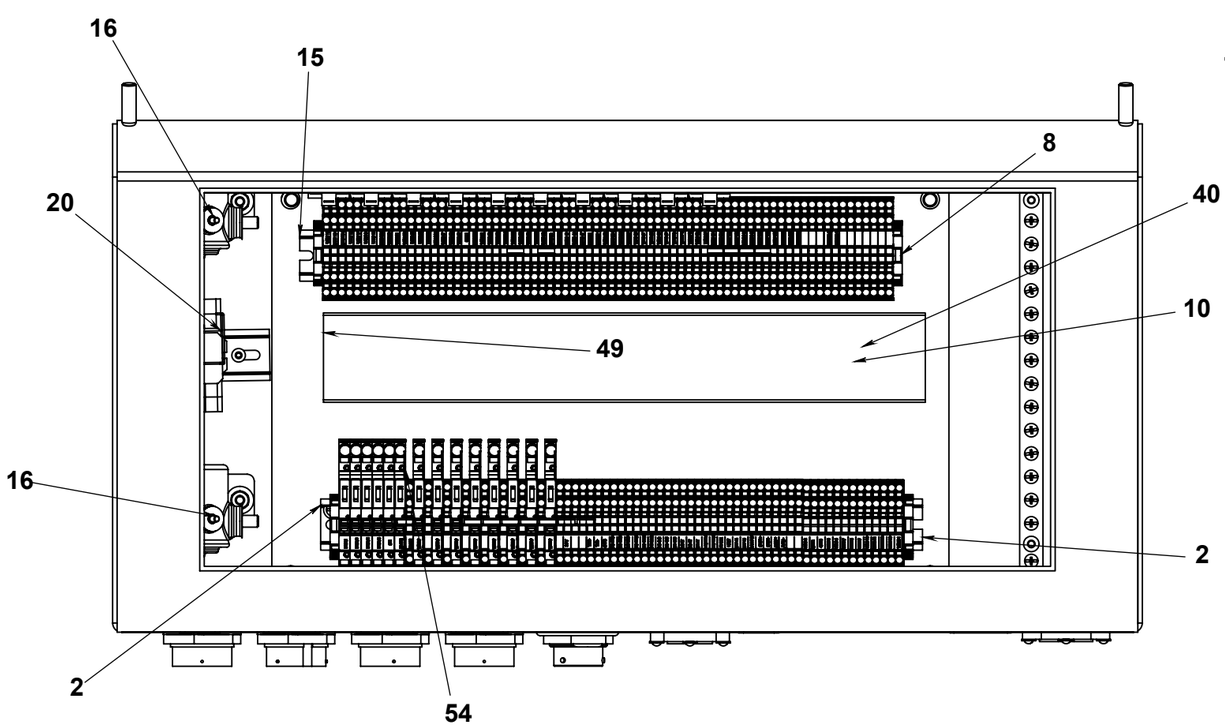




DETAIL B

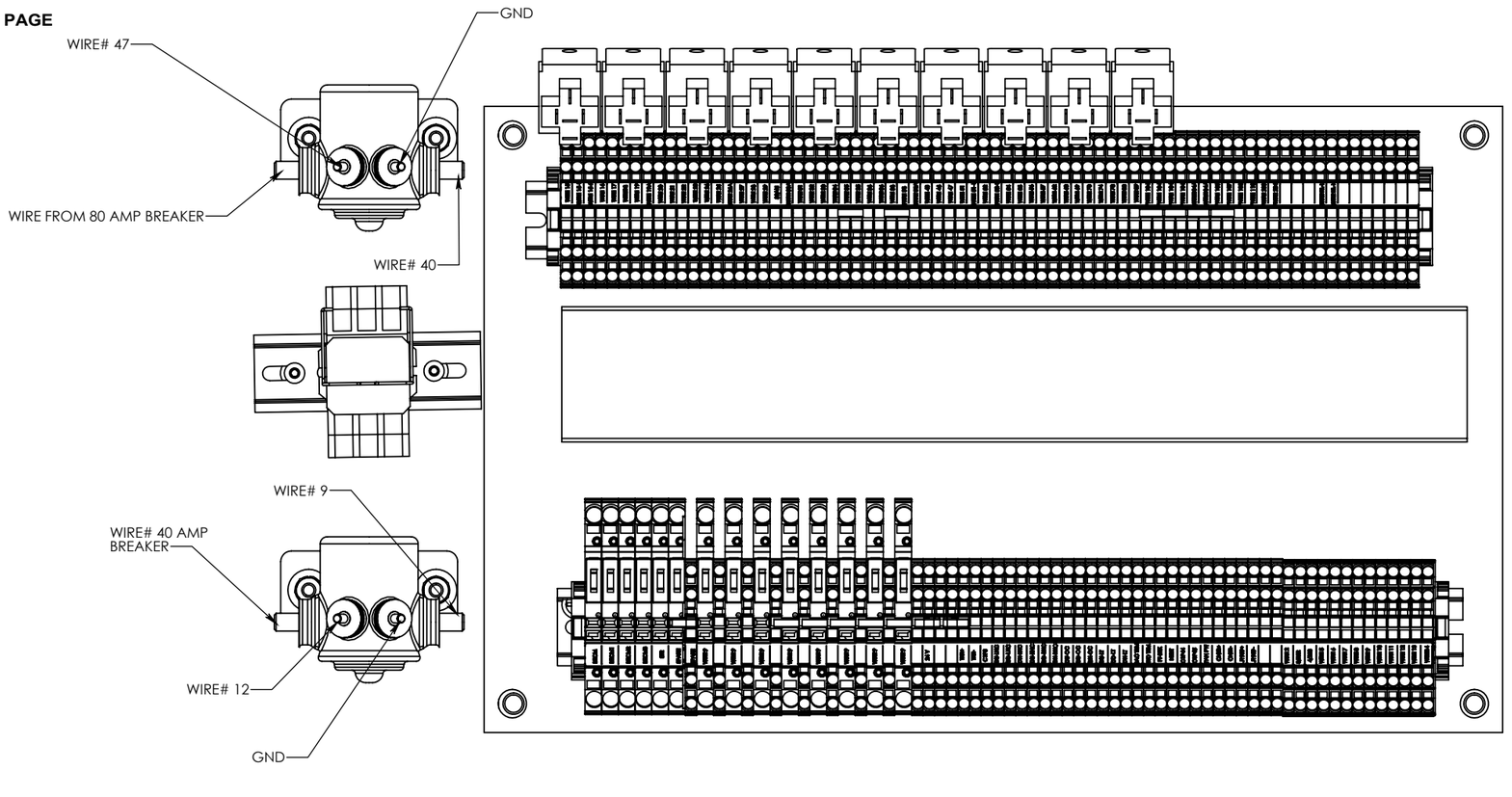


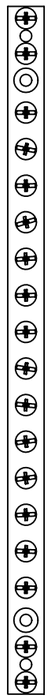
SECTION A-A

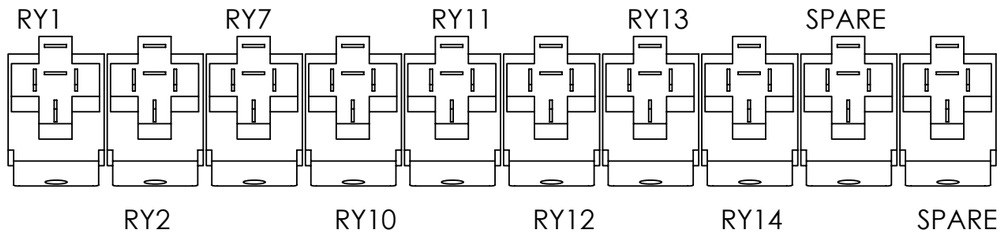


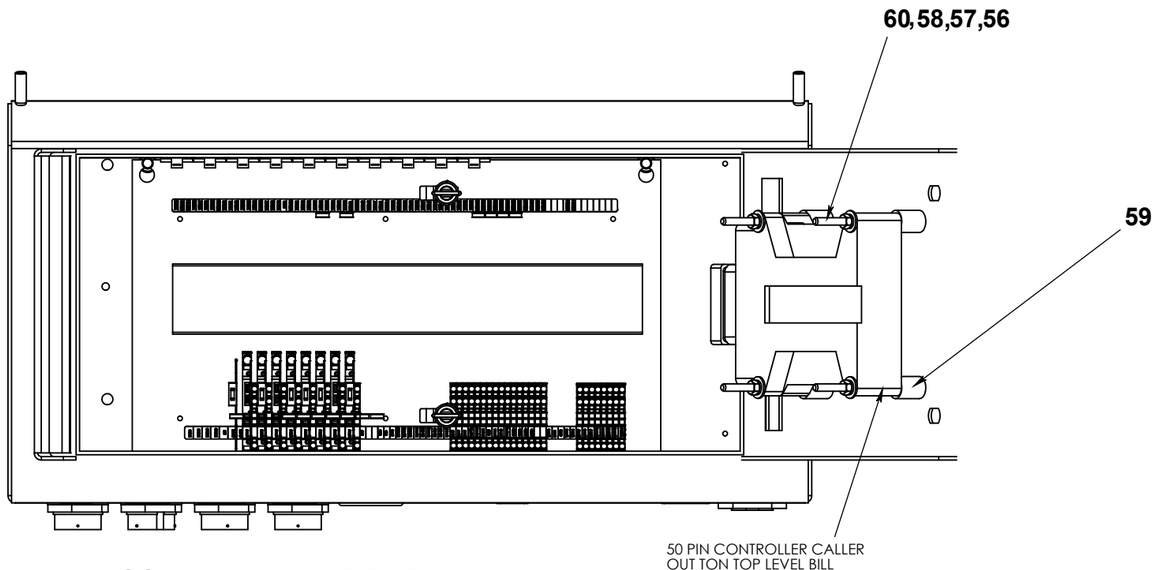
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ASSY- MAIN JUNCTION BOX, SB-2500e
(251582-01)





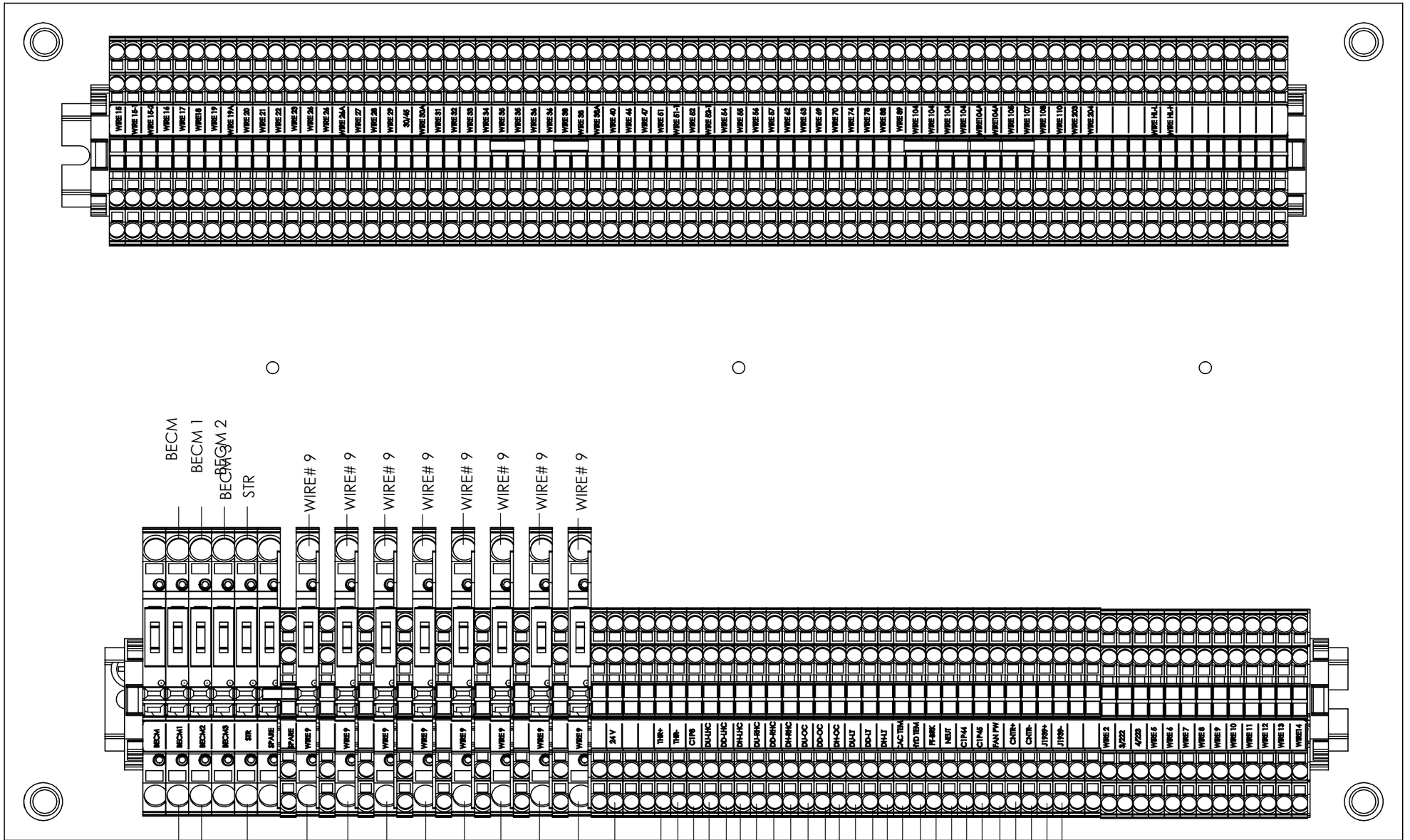




RELAY WIRING CHART					
RELAY NO.	POSITION 30	POSITION 85	POSITION 86	POSITION 87	POSITION 87A
RY1	WIRE 24 (12 AWG)	WIRE# 47	GROUND	WIRE# 40	
RY2	WIRE# 46	WIRE# 45/30	GROUND	WIRE# 47	
RY7	WIRE# 36	WIRE# 19	GROUND	WIRE# 19A	
RY10	WIRE # 26	WIRE# 30C	GROUND	WIRE# 26B	
RY11	WIRE# 38A	WIRE# S	GROUND		WIRE# 38A
RY12	WIRE# 26A	C1P45	GROUND	WIRE# C1P44	
RY13	WIRE# 34	WIRE# 29	GROUND	WIRE# 26C	26B
RY 14	WIRE# 39A	WIRE# 104	GROUND	WIRE# 104A	

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ASSY- MAIN JUNCTION BOX, SB-2500e
(251582-01)



MAIN JUNCTION BOX SB-2500E CUMMINS
(251582-01)

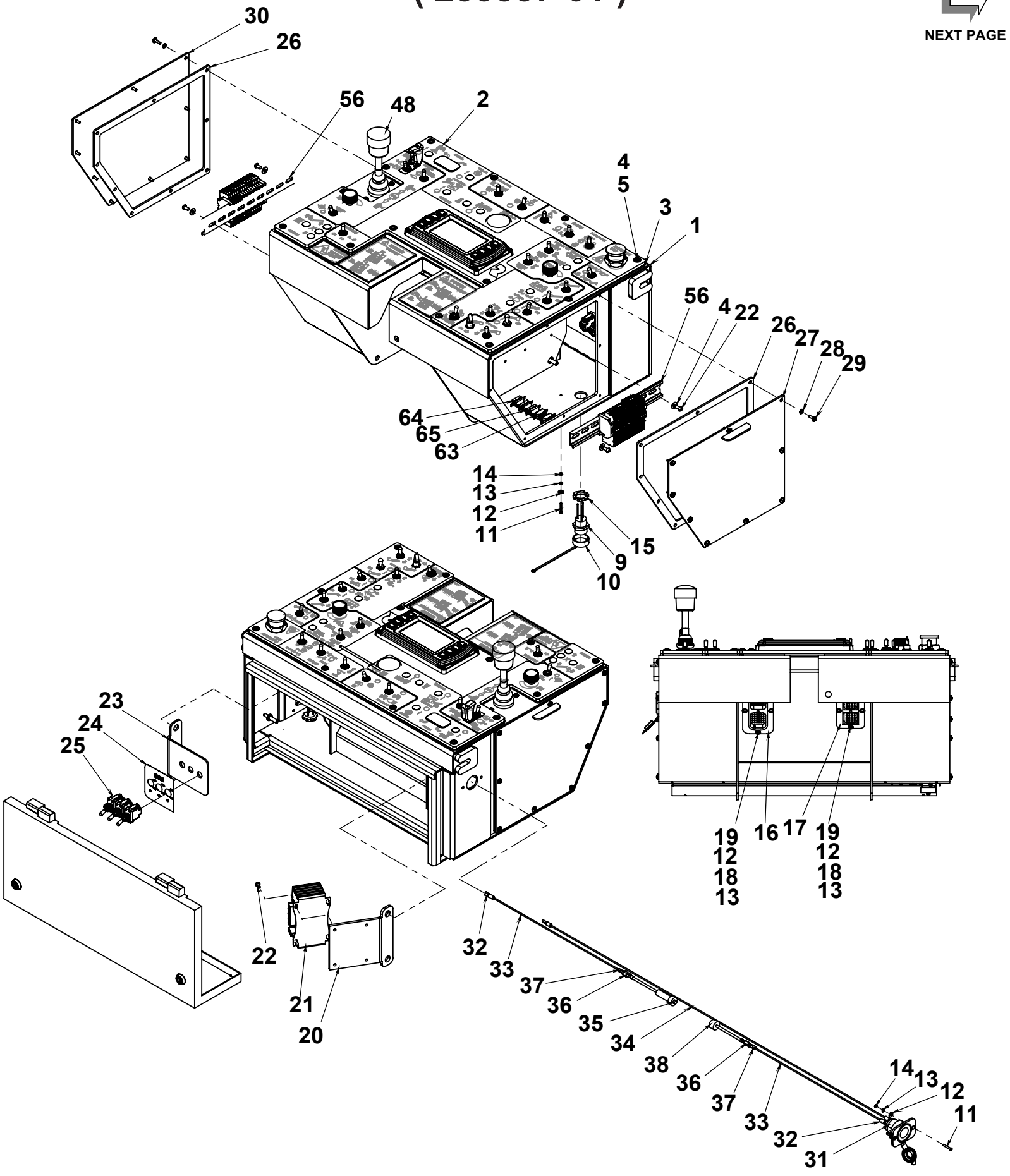
ITEM #	PART NO.	DESCRIPTION	QTY.
1	251585-01	SB-2500E MAIN JUNCTION BOX	1
2	251582-01-2	ELEC - DIN RAIL - 16"	1
3	225837-04	WAGO 22-12 AWG TERMINAL GRAY	87
4	242009-04	WAGO 20-10 AWG TERMINAL RED	9
5	225835-04	WAGO 20-14 AWG TERMINAL BLUE	31
6	246258-04	WAGO MINI FUSE HOLDER	14
7	235628-04	WAGO SMALL END CAP PART # 2002-1491	1
8	245054-04	ELEC - WAGO END STOP	4
9	246273-04	ELEC - 15A WAGO BREAKER	2
10	121687	SCREW - 10-32 X 3/8" SLOT ROUND CAP	8
11	92552	WASHER - FLAT # 10	15
12	246272-04	ELEC - 10A WAGO BREAKER	6
13	246274-04	ELEC - 20A WAGO BREAKER	4
14	246276-04	ELEC - 30A WAGO BREAKER	2
15	251582-01-3	ELEC - DIN RAIL - 16"	1
16	135728-04	ELEC - POWER RELAY 24 VDC 65 AMP	2
17	128862	RELAY - 24 VOLT 40 AMP	10
18	231166-04	ELEC - RELAY CONNECTOR HARNESS MOUNT	10
19	243859-02	UNIVERSAL GROUND BAR SYSTEM 11.64" (20) HOLE	1
20	246479-04	RELAY ASSEMBLY	1
21	220412-03	PIG TAIL - SPEED SHIFT	1
22	216911-02	PIG TAIL - WINDROW OPTION	1
23	249152-02	PIG TAIL - CUMMINS ENGINE	1
24	90103	WASHER - LOCK # 10	12
25	90102	NUT - 10-32 UNF HEX	12
26	138033	SCREW - 6-32 X 1 SLOTTED ROUND MACH	8
27	92554	WASHER - FLAT # 6	16
28	131551	WASHER - LOCK # 6	7
29	131550	NUT - 6-32	8
30	89988-04	BOLT - HEX 1/4"-20 X 3/4"	4
31	84444	WASHER - FLAT 1/4" STEEL	12
32	83065	WASHER - LOCK 1/4" SPRING STEEL	8
33	89772	NUT - 1/4"-20 HEX GRADE 8	8
34	204295-04	PLASTIC SPACER - ANTI-SPIN CONTROL	4
35	232844-04	BOLT - CARRIAGE 1/4 UNC X 4 1/2 LG	4
36	211962-04	ELEC - DEUTSCH NUT SHELL SIZE 24	6
37	211963-04	ELEC - 24 SHELL METAL LOCK WASHER	6
38	211960-04	ELEC - DEUTSCH NUT SHELL SIZE 18	3
39	211961-04	DEUTSCH 18 SHELL METAL LOCK WASHER	3
40	251799-04	CABLE TIE MOUNT # 10 SCREW	3
41	236430-02	PIG TAIL - BEACON, BREAK & FXS	1
42	245252-02	PIG TAIL - WORK LIGHT HID	1
43	238598-02	PIG TAIL - C-2 VALVE	1
44	245251-02	PIG TAIL - ROAD LIGHT & SLIDING PLATFORM	1
45	246269-04	ELEC - WAGO STEP DOWN JUMPER	14

MAIN JUNCTION BOX SB-2500E CUMMINS
(251582-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
46	252850-02	PIG TAIL - RIGHT HAND C1 CONTROL BOX	1
47	252877-02	PIG TAIL - PUMP	1
48	252899-02	PIG TAIL - JUNCTION BOX TO OPERATOR CONSOLE (31 PIN)	1
49	451582-01-4	WIRE DUCT - 2 X 4 X 16"	1
50	251582-01-6	WIRE DUCT - COVER	1
51	252932-04	DECAL KIT - DEUTSCH PLUGS SB-2500E	1
52	253006-03	TERMINAL ID STRIP	1
53	252849-01	PIG TAIL - SB-2500E CUMMINS 50-PIN CONTROLLER	1
54	235629-04	WAGO LARGE END CAP	9
55	226104-04	PLUG - 11 1/4" COND HOLE TIGHT HOLE SEAL	1
56	252897-02	PIG TAIL - JUNCTION BOX TO OPERATOR CONSOLE (70 PIN)	1
57	140405-04	ELEC - SEALED CONDUIT 3/4" ST FITTING	1
58	84196-04	NUT - 3/4" CONDUIT LOCK	1

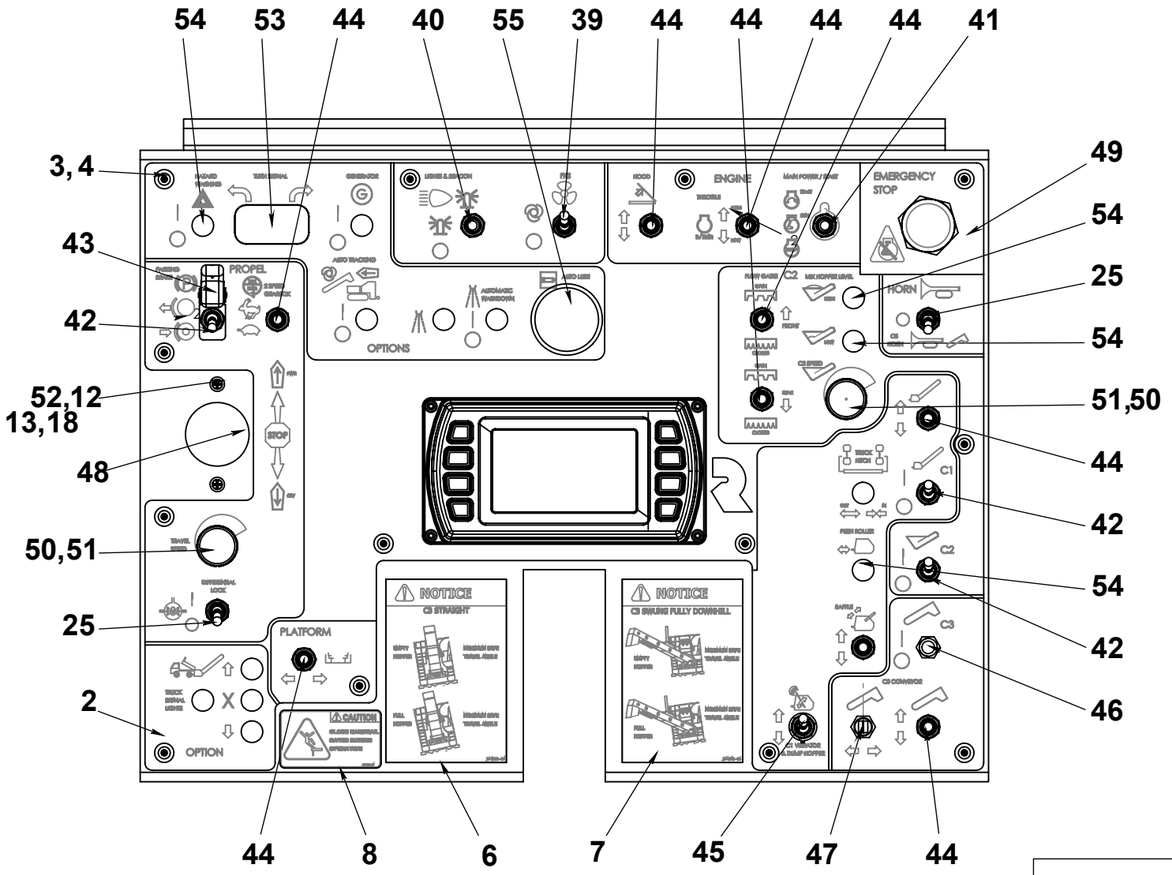
ASSY- OPERATORS CONSOLE,SB-2500e
(253887-01)

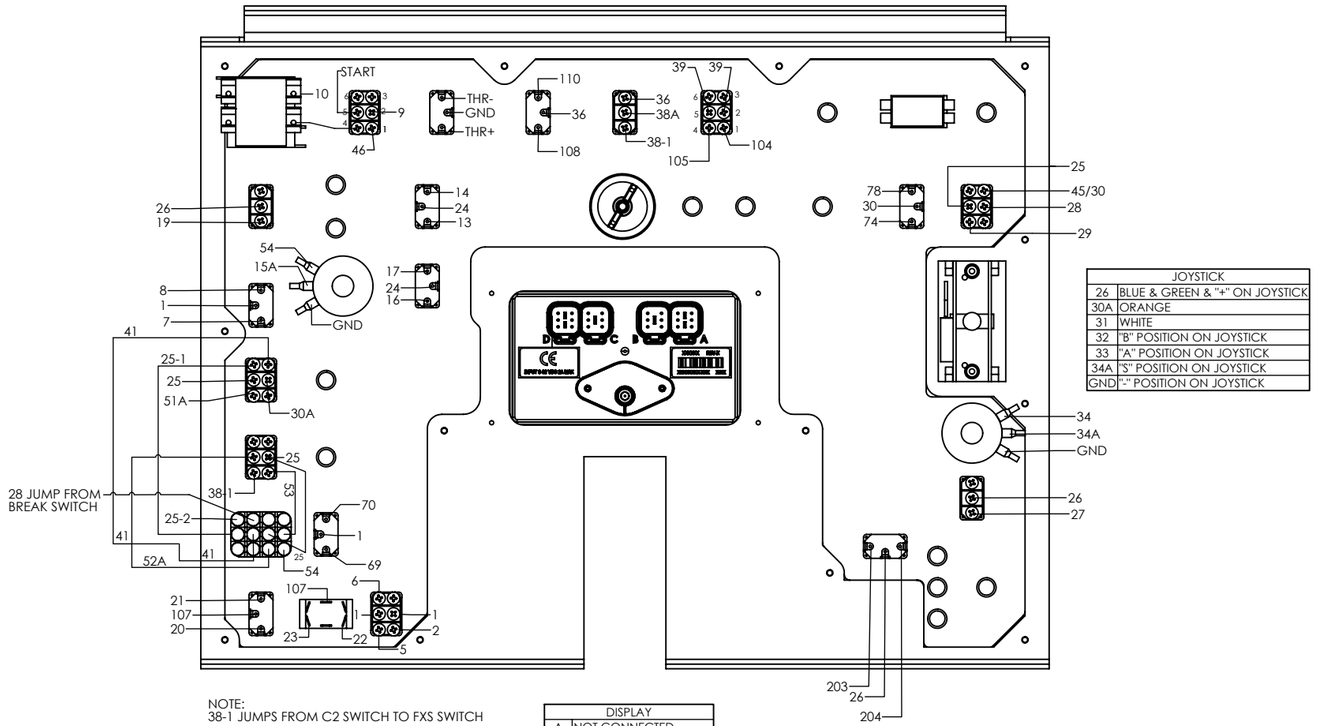
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ASSY- OPERATORS CONSOLE,SB-2500e
(253887-01)

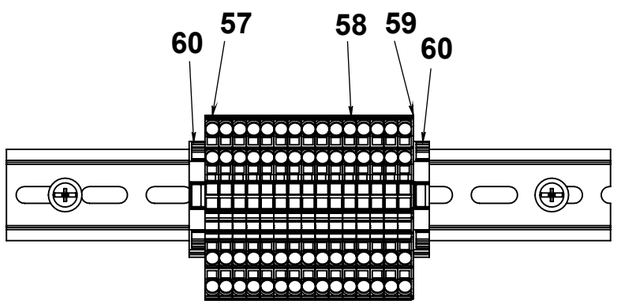




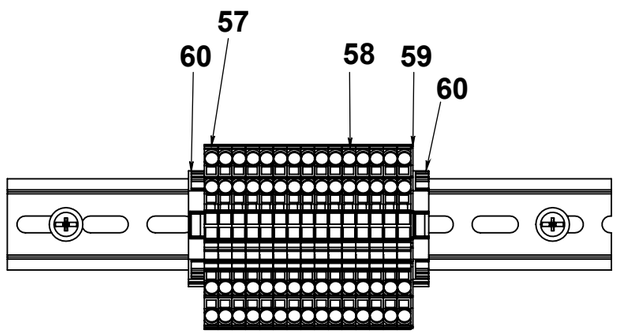
JOYSTICK	
26	BLUE & GREEN & "+" ON JOYSTICK
30A	ORANGE
31	WHITE
32	"B" POSITION ON JOYSTICK
33	"A" POSITION ON JOYSTICK
34A	"S" POSITION ON JOYSTICK
GND	"-" POSITION ON JOYSTICK

12V CONVERTER	
12 V	RED 12 V TO 12V RECEPTACLE
12V GND	WHITE/BLACK WIRE TO 12V RECEPTACLE
24V	RED WIRE # 39
24V GND	WHITE/BLACK WIRE GND

DISPLAY		
A	NOT CONNECTED	
B	1	CNTR+
	2	J1939+
	3	J1939-
	4	SEALING PLUG
	5	CNTR+
	6	GND
C	NOT CONNECTED	
D	NOT CONNECTED	



LH SIDE DIN RAILS

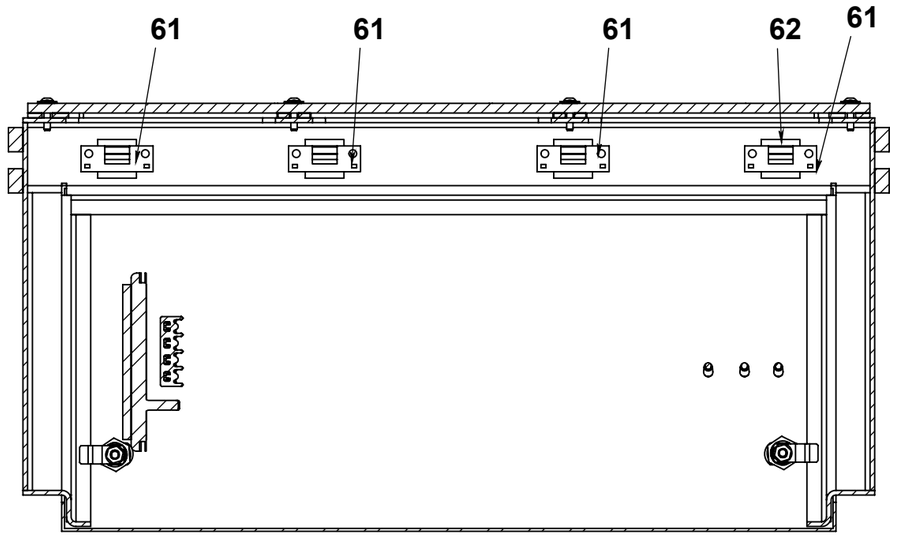


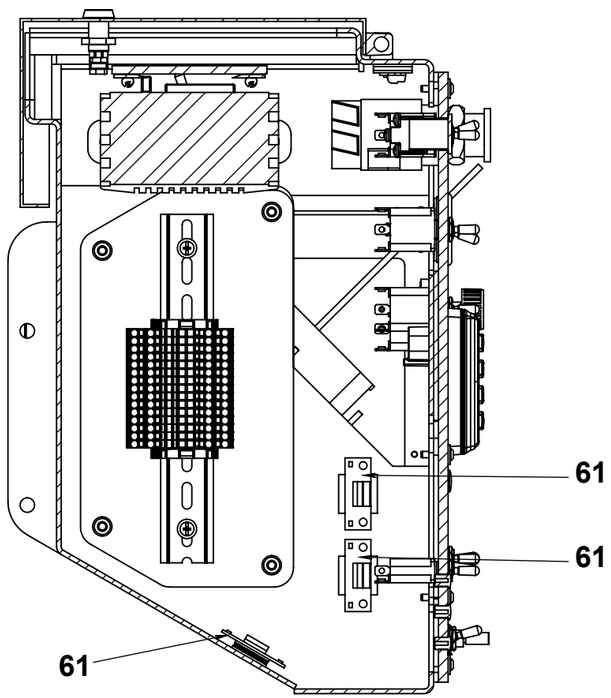
RH SIDE DIN RAILS

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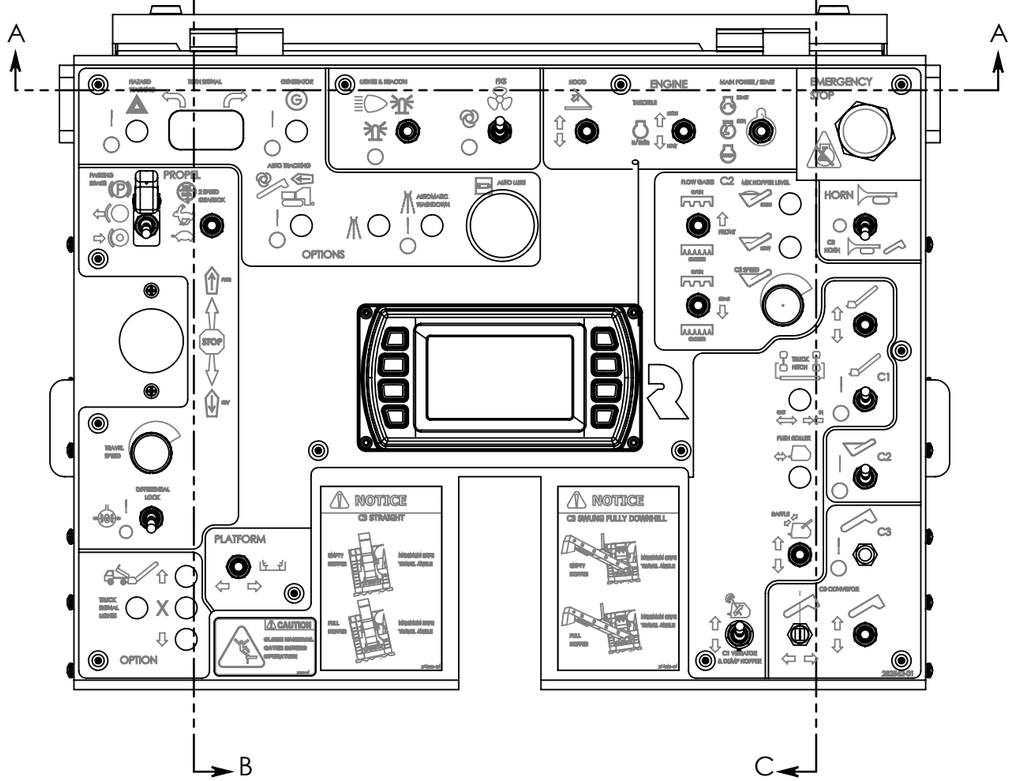
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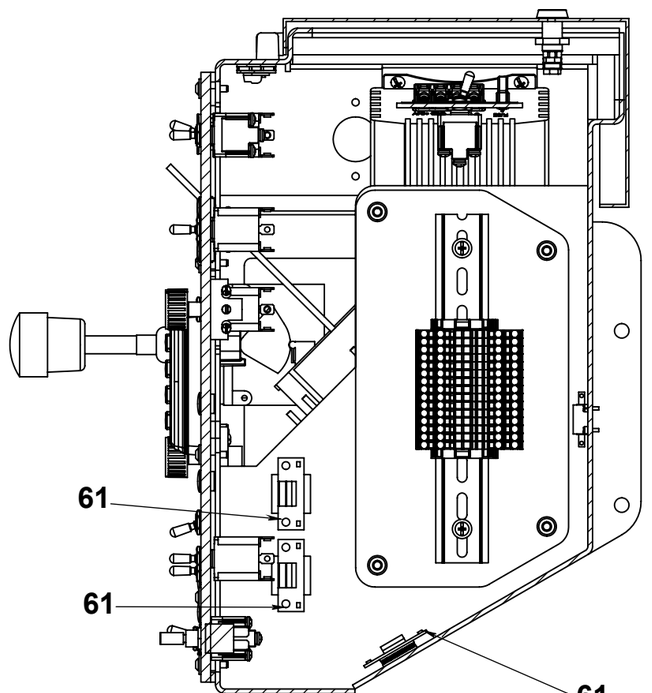
ASSY- OPERATORS CONSOLE,SB-2500e
(253887-01)





SECTION B-B





SECTION C-C

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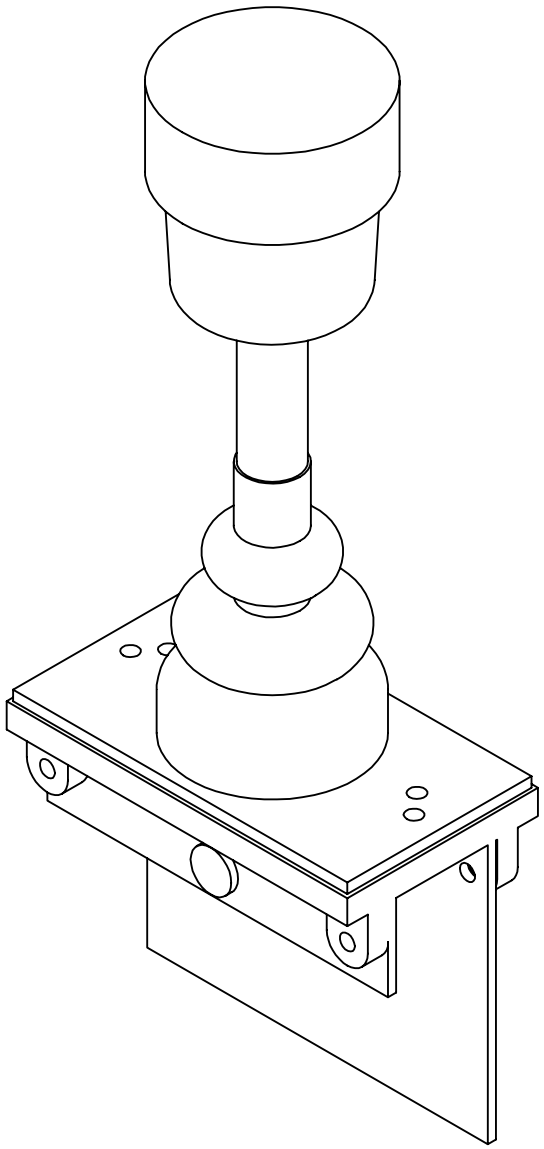
ASSY - OPERATORS CONSOLE - SB-2500E
(253887-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	253888-01	WELDMENT - OPERATORS CONSOLE	1
2	252562-01	OPERATORS CONSOLE TOP PANEL	1
3	252140-01	GASKET - OPERATORS PANEL	1
4	92552	WASHER - FLAT # 10	17
5	252575-04	SCREW - BUTTON HEAD 8-32 X 3/4	13
6	211269-04	DECAL - SAFE TRAVEL GRADE DIAGRAM	1
7	211348-04	DECAL - SAFE TRAVEL GRADE DIAGRAM	1
8	252068-04	DECAL - CLOSE GATES, DRIVER CONSOLE	1
9	140001-04	ELEC - RECEPTACLE ELEMENT	1
10	204965-04	ELEC - CLOSURE CAP A-SIZE RECEPTACLE	1
11	06996	SCREW - M3-0.5 X 20 5.8 84 SLOT HD.	3
12	92554	WASHER - FLAT # 6	23
13	131551	WASHER - LOCK # 6	13
14	04762	NUT - M3-0.5 GD 8 934 HEX	3
15	122101-C3	ELEC - SEALED CONDUIT NUT	1
16	252897-02	PIG TAIL - JUNCTION BOX / OPERATOR CONSOLE (70 PIN)	1
17	253947-02	PIG TAIL - CONSOLE - 40 PIN	1
18	131550	NUT - 6-32	10
19	138033	SCREW - 6-32 X 1 SLOTTED ROUND MACH.	8
20	252098-03	DETAIL - PYLE CONVERTER BRACKET	1
21	237359-03	PYLE CONVENTOR - 12-24	1
22	121687	SCREW - 10-32 X 3/8" SLOT ROUND CAP	8
23	252099-03	DETAIL - REVERSING CONV BRACKET	1
24	127431-04	DATA PLATE - REVERSING CONVEYOR	1
25	97542	SWITCH - ON-OFF TOGGLE SP-ST-SR	5
26	252136-03	GASKET - OPERATORS CONSOLE SIDE PANEL	2
27	252137-03	WELDMENT - OPERATORS CONSOLE RH SIDE PANEL	1
28	90103	WASHER - LOCK # 10	18
29	27J96	SCREW - MACHINE # 10-24 X 1/2"	18
30	252138-03	WELDMENT - OPERATORS CONSOLE LH SIDE PANEL	1
31	217670-04	ELEC - RECEPTACLE 12V	1
32	28Y52	ELEC - TERMINAL FEMALE NON-INSUL. 250	4
33	248354-01-1	WIRE - POWER - 12V AUX SOCKET 14"	2
34	248354-01-2	WIRE - GROUND - 12V AUX SOCKET 36"	1
35	209077-04-C1	ELEC - 10 AMP FUSE	1
36	38Z57	WIRE - TERMINAL 16-14 GA. MALE INSUL	2
37	97735	WIRE - FEMALE INSUL. SPADE TERMINAL	2
38	149509	FUSE HOLDER	1
39	13E68	SWITCH - TOGGLE SP ST ON-OFF	1
40	143633-04	SWITCH - DPDT ON-ON-ON MAINTAIN	1
41	87311-04	TOGGLE SWITCH - DPDT ON-ON-ON	1
42	97678	TOGGLE SWITCH - DP ST	3
43	97490-C1	SWITCH - COVER (CUTLER HAMMER)	1
44	139471	SWITCH - TOGGLE MOMENTARY SPRING SPDT	9
45	97615	SWITCH - TOGGLE ON-OFF-ON DPDT	1

ASSY - OPERATORS CONSOLE - SB-2500E
(253887-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
46	20Z53	SWITCH - SELECTOR	1
47	252907-04	SWITCH - PADDLE - SPDT MOMEN-MOMEN	1
48	242168-04	SINGLE AXIS JOYSTICK - 24V	1
49	224184-04	ELEC - ILLUMINATED E-STOP	1
50	253919-03	100 OHM 25W POT ASSY	2
51	120276-C1	KNOB - 1/4" SHAFT FOR POTENTIOMETER	2
52	240944-04	SCREW - # 6-32 X 1" PHILLIPS PAN HD ZNC	2
53	252586-04	PLUG - HOLE ROCKER SWITCH	1
54	97944-04	PLUG - HOLE 1/2	13
55	209978-04	PLUG - 1" COND HOLE TIGHT HOSE SEAL	1
56	253887-01-1	ELEC - DIN RAIL - 9"	2
57	225837-04	WAGO 22-12 AWG TERMINAL GRAY	20
58	225836-04	WAGO 22-12 AWG TERMINAL GRAY/YELLOW	10
59	235628-04	WAGO SMALL END CAP PART # 2002-1491	2
60	245054-04	ELEC - WAGO END STOP	4
61	248747-04	ELEC - CIRCUIT BOARD LED LAMPS	10
62	243493-04	3M DUAL LOCK ADHESIVE TAB	2
63	120275	RESISTOR - 75 OHM 10 WATT	2
64	129349	RESISTOR - 250 OHM 10 WATT	3
65	133607	SCREW - SLOTTED HEAD 2-56 X 3/8 GD8	10

ASSY- JOYSTICK
(242168-04)

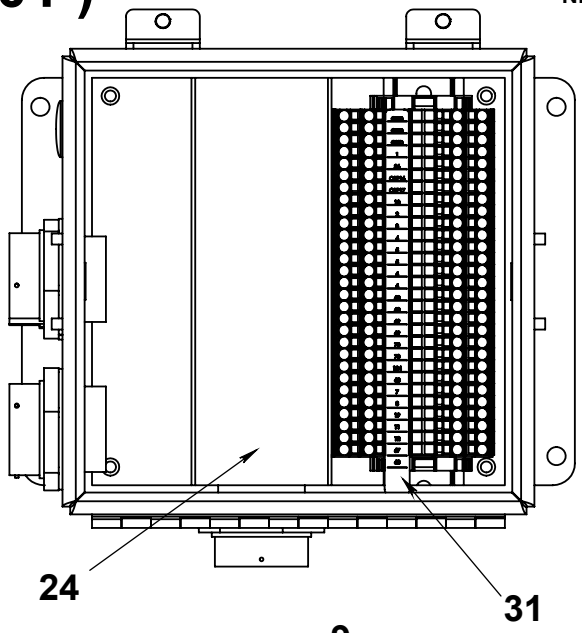


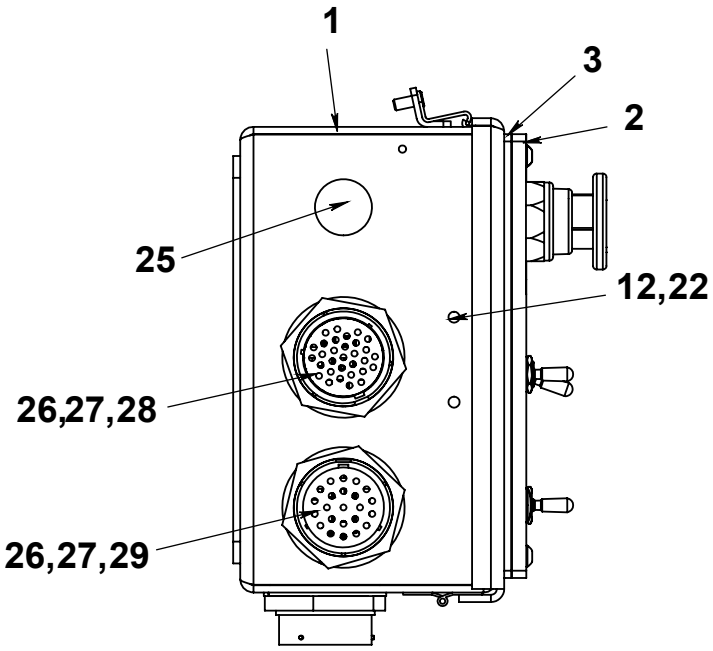
SINGLE AXIS JOYSTICK
OEM CONTROLS

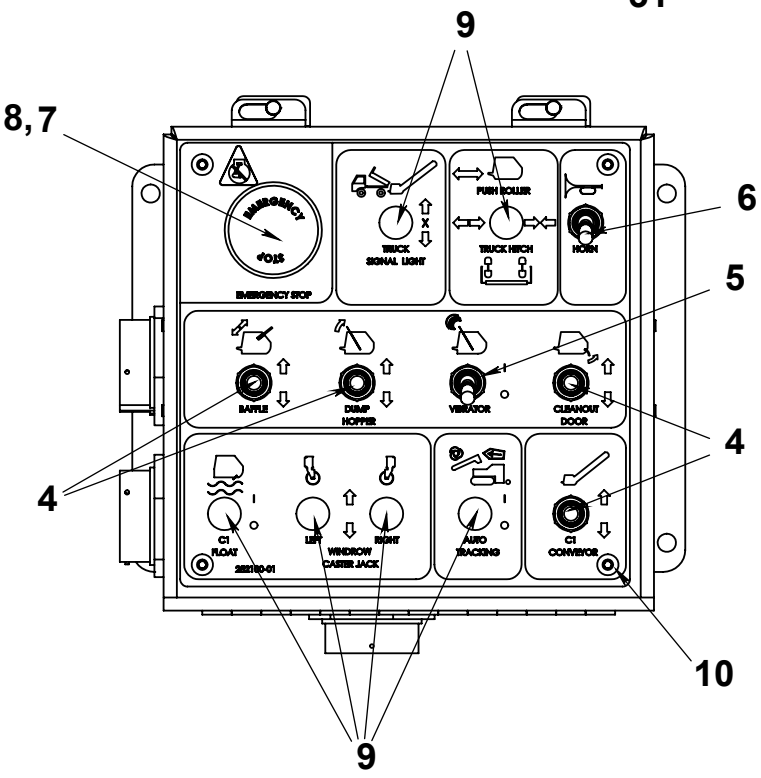
TERMINALS STRIP ON JOYSTICK
TERMINAL (A) - FORWARD EDC
TERMINAL (+) - +24VDC
TERMINAL (-) - GROUND
TERMINAL (S) - INPUT VOLTAGE FROM SPEED POTENTIOMETER
TERMINAL (B) - REVERSE EDC

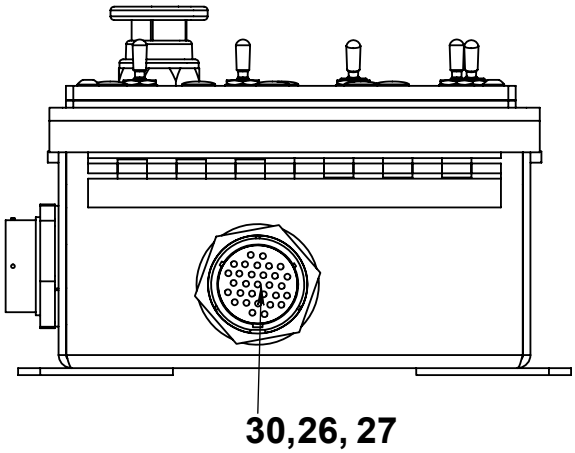
ASSY- R.H. C1 CONTROL BOX
(252089-01)

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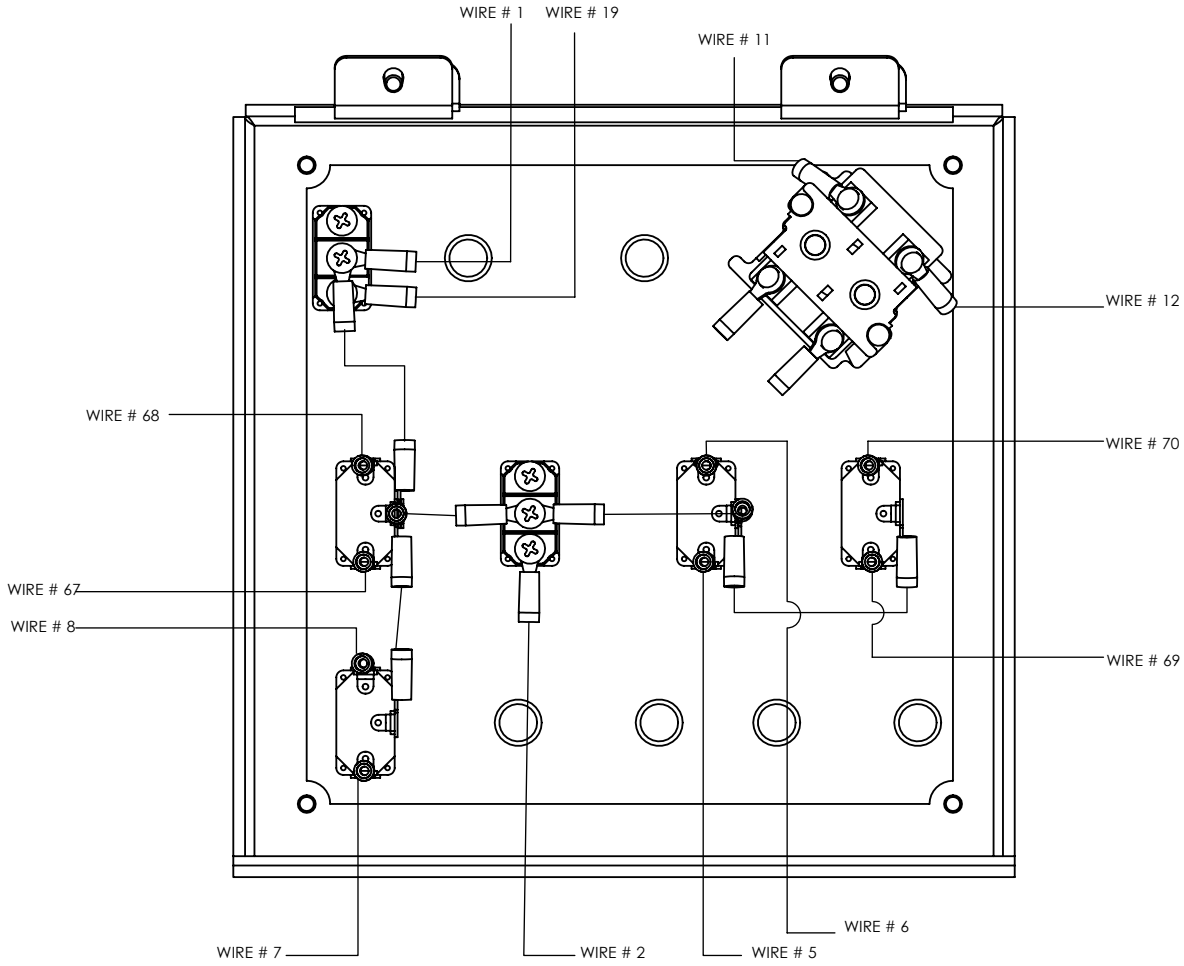


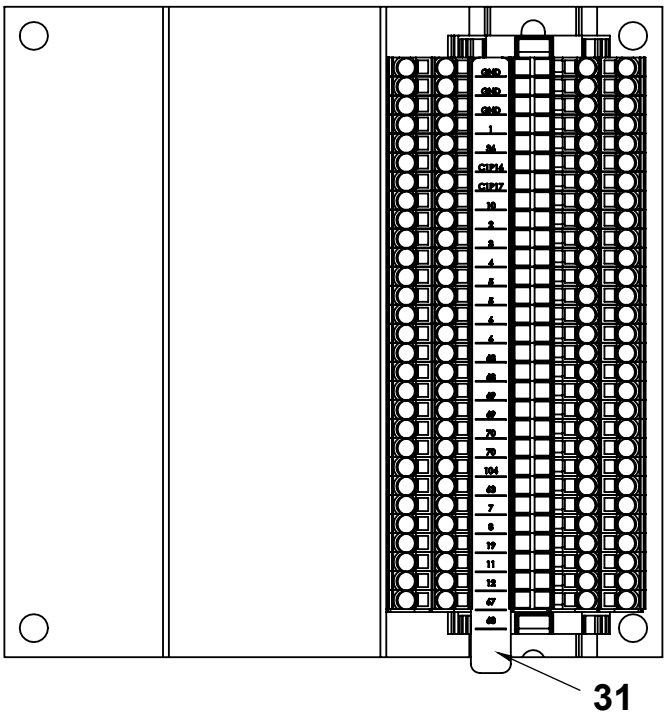


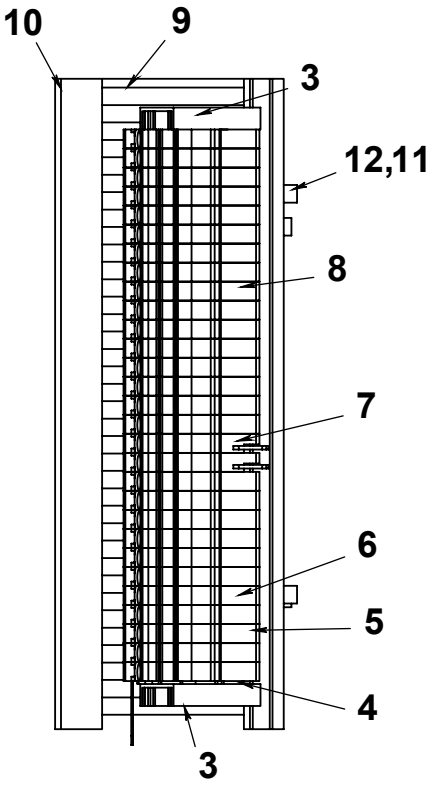
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ASSY- R.H. C1 CONTROL BOX
(252089-01)







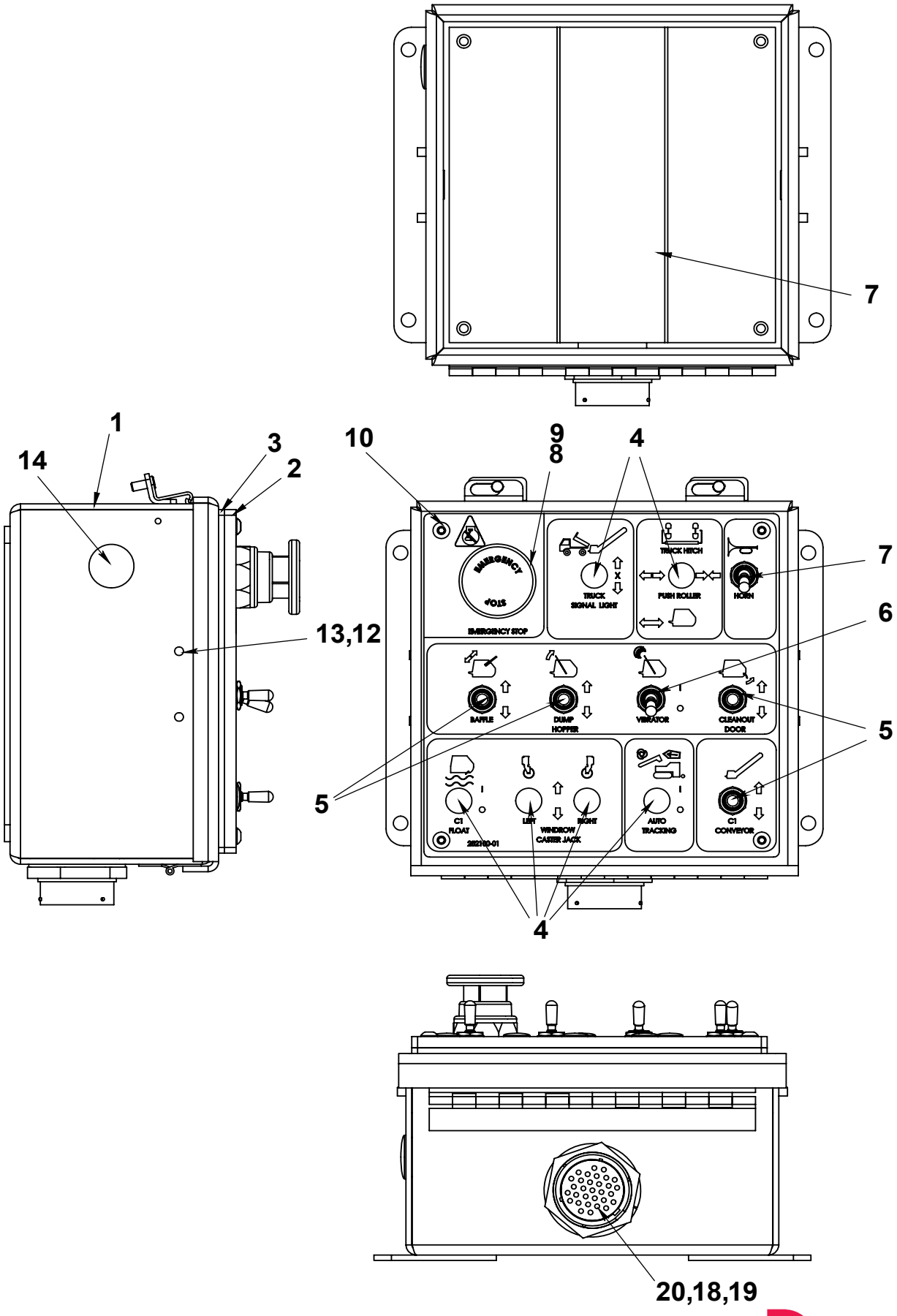
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ASSY- R.H. C1 CONTROL BOX
(252089-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	252119-02	ELEC BOX* RIGHT HAND C1	1
2	252100-02	DATA PLATE * C1 CONTROL BOX	1
3	252179-03	GASKET* C1 BOX	1
4	139471	SWITCH * TOGGLE MOMENTARY SPRING SPDT	4
5	13E68	SWITCH * TOGGLE SP ST ON/OFF	1
6	97542	SWITCH * ON - OFF TOGGLE SP-ST-SR	1
7	93251-04	SWITCH * "EMERGENCY STOP"	1
8	93250-04	ELEC ~ EMERGENCY STOP CONTACT BLOCK	1
9	97944-04	PLUG * HOLE 1/2	6
10	131446	SCREW ~ BUTTON HD #10-32 x 3/4	4
11	252089-01-1	ELEC * DIN RAIL 7"	1
12	121687	SCREW * 10-32 X 3/8" SLOT ROUND CAP	8
13	92552	WASHER * FLAT #10	4
14	245054-04	ELEC - WAGO END STOP	2
15	235628-04	WAGO SMALL END CAP PART# 2002-1491	1
16	242009-04	WAGO TERMINAL 20-10 AWG RED	3
17	225835-04	WAGO 20-14 AWG TERMINAL-BLUE	8
18	225836-04	WAGO 22-12 AWG TERMINAL GR/YLW	2
19	225837-04	WAGO 22-12 AWG TERMINAL GRAY	16
20	93253	WIRE * TERMINAL RING 16GA. (#10)	25
21	124296	ELEC * DIODE 6 AMP AXIAL	1
22	248747-04	ELEC * CIRCUIT BOARD LED LAMPS	2
23	252089-01-3	WIRE DUCT ~2 x 4 x 7"	1
24	252089-01-2	WIRE DUCT ~ COVER 7"	1
25	249697-04	HOLE PLUG ~ 7/8"	1
26	211963-04	ELEC * 24 SHELL METAL LOCKWASHER	3
27	211962-04	ELEC * DEUTSCH NT SHELL SIZE 24	3
28	252854-02	PIGTAIL~ LH/RH C1 CONTROL BOX	1
29	252856-02	PIGTAIL~ C1 VALVE MANIFOLD	1
30	252853-02	PIGTAIL~ RIGHT HAND C1 CONTROL BOX	1
31	254072-04	TERMINAL ID STRIP FOR C1 BOX RH	1

ASSY- L.H. C1 CONTROL BOX
(252090-01)

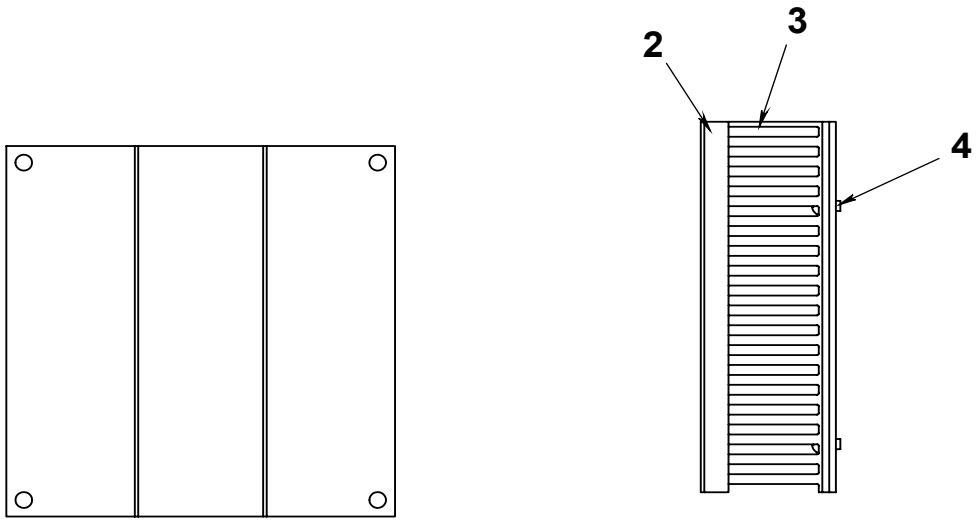
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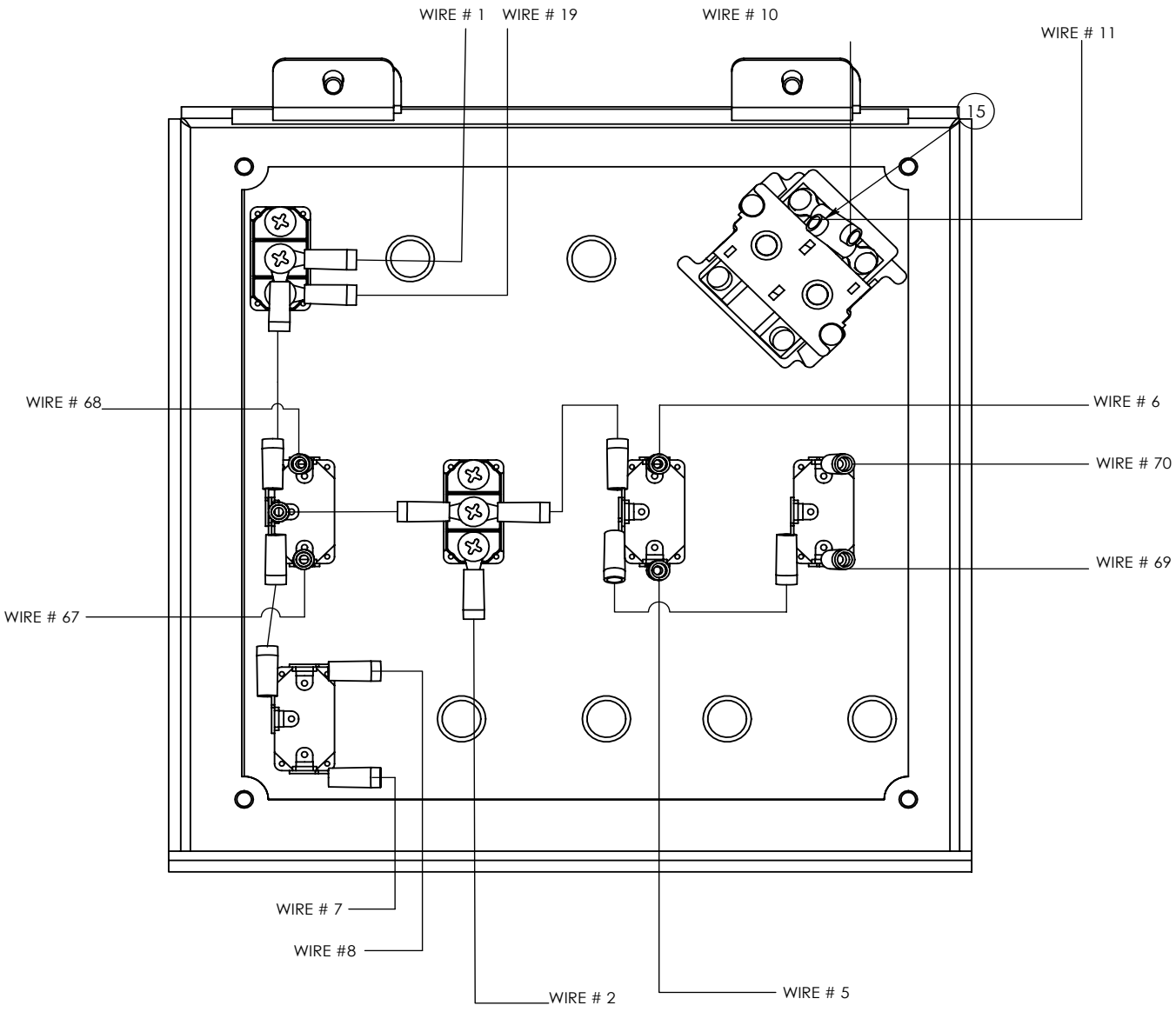


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ASSY- L.H. C1 CONTROL BOX
(252090-01)

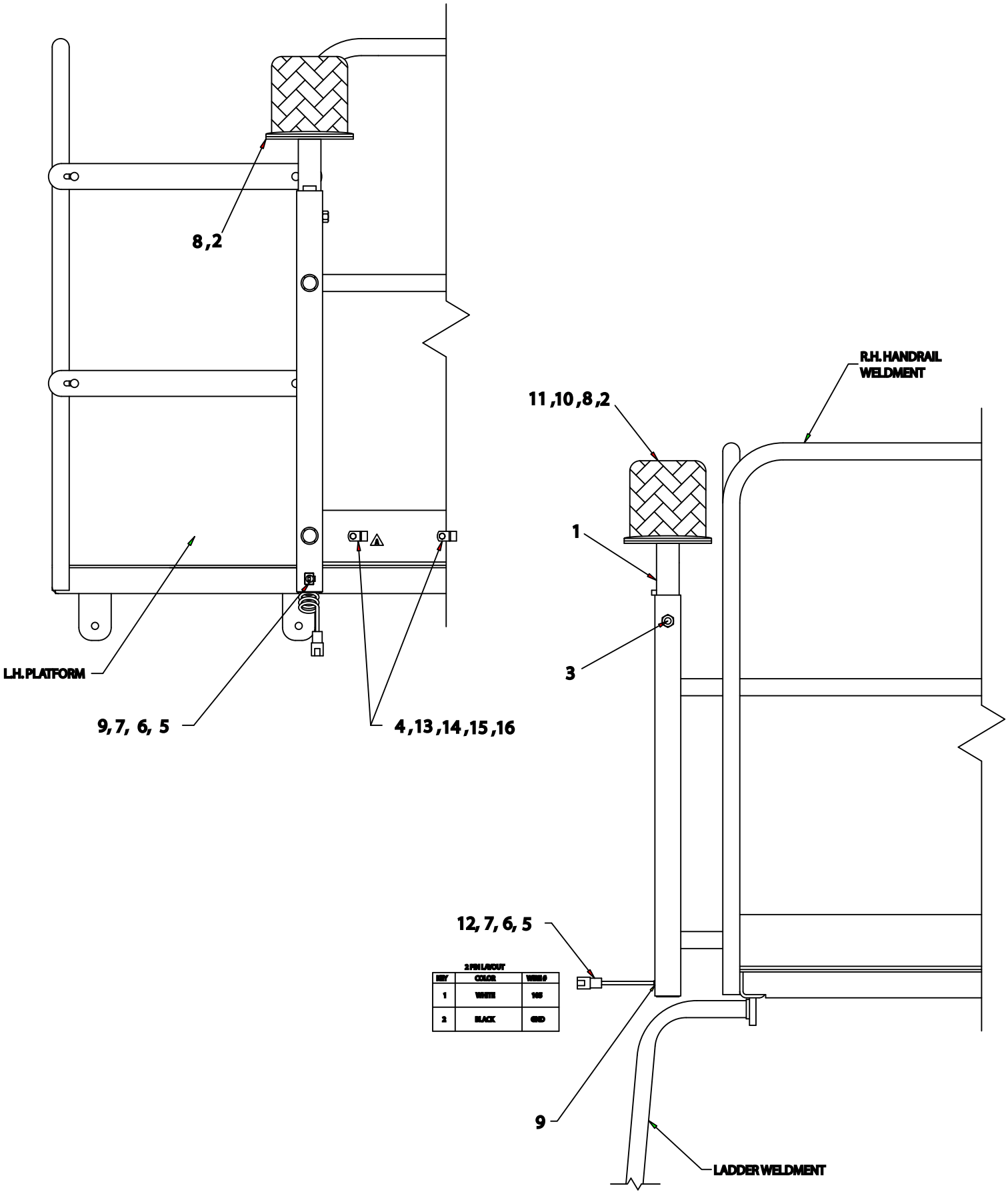




ASSY- L.H. C1 CONTROL BOX
(252090-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	252120-02	ELEC BOX* LEFT HAND C1	1
2	252179-03	GASKET* C1 BOX	1
3	252100-02	DATA PLATE * C1 CONTROL BOX	1
4	97944-04	PLUG * HOLE 1/2	6
5	139471	SWITCH * TOGGLE MOMENTARY SPRING SPDT	4
6	13E68	SWITCH * TOGGLE SP ST ON/OFF	1
7	97542	SWITCH * ON - OFF TOGGLE SP-ST-SR	1
8	93251-04	SWITCH * "EMERGENCY STOP"	1
9	93250-04	ELEC ~ EMERGENCY STOP CONTACT BLOCK	1
10	131446	SCREW ~ BUTTON HD #10-32 x 3/4	4
11	93253	WIRE * TERMINAL RING 16GA. (#10)	23
12	248747-04	ELEC * CIRCUIT BOARD LED LAMPS	2
13	121687	SCREW * 10-32 X 3/8" SLOT ROUND CAP	6
14	249697-04	HOLE PLUG ~ 7/8"	1
15	252090-01-1	WIRE DUCT ~2 x 4 x 7"	1
16	252090-01-2	WIRE DUCT ~ COVER 7"	1
17	92552	WASHER * FLAT #10	2
18	211963-04	ELEC * 24 SHELL METAL LOCKWASHER	1
19	211962-04	ELEC * DEUTSCH NT SHELL SIZE 24	1
20	252854-02	PIGTAIL~ LH/RH C1 CONTROL BOX	1

STROBE LIGHT ASSEMBLY
(214370-01)



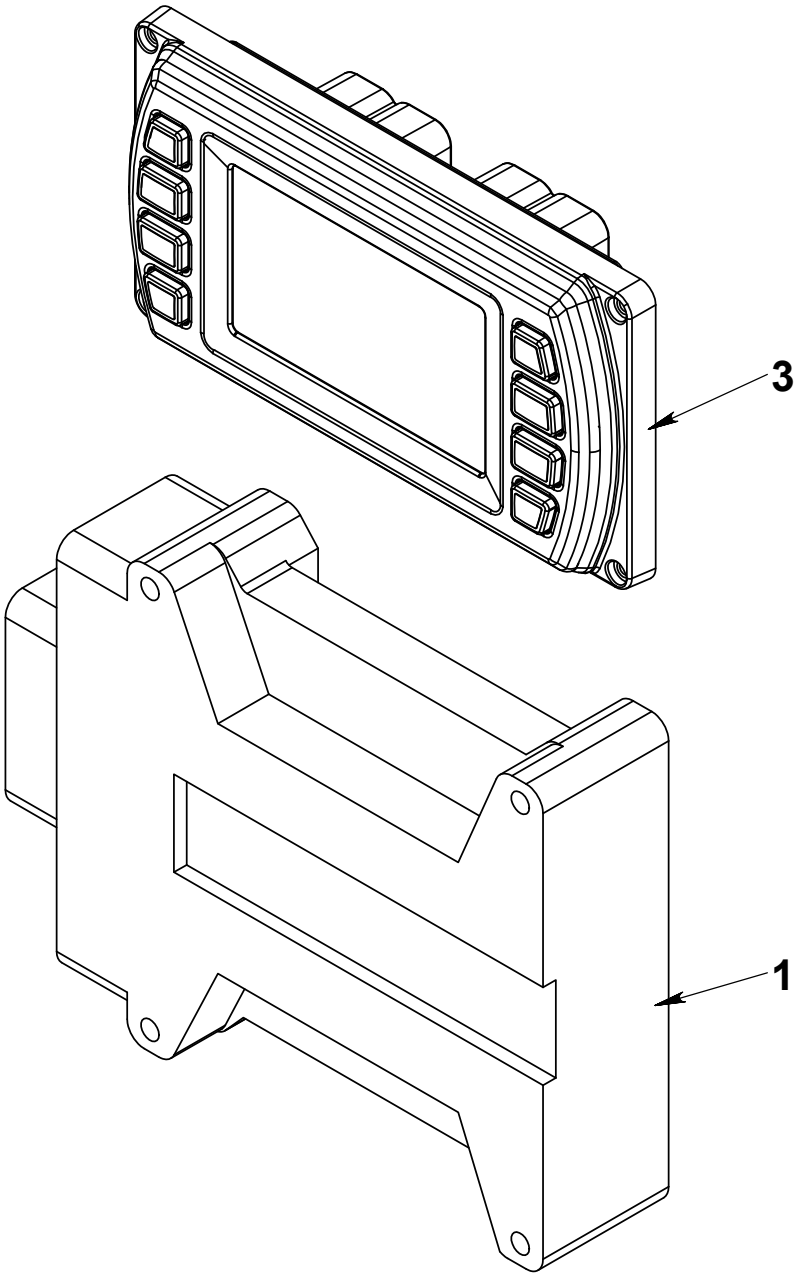
STROBE LIGHT ASSEMBLY
(214370-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	209506-01	STROBE MOUNTING WLDMT.	1
2	204123-04	LIGHT - 80/MIN 12V STROBE	1
3	135982-04	WING BOLT - 1/2-13	1
4	20K33	CLAMP - 3/8" DIA X 1/2" WTH X 1/4"	2
5	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
6	137176-04	DEUTSCH 16 AWG PINS	2
7	206401-04	DEUTSCH SECONDARY LOCK	1
8	98237-04	CABLE - RETRACTABLE CORD	1/2
9	87318-04	RUBBER - 1/2" GROMMET	1
10	38Z57	MALE CONNECTOR	2
11	97735	FEMALE CONNECTOR	2
12	95021	SPLIT LOOM - 1/4"	6"
13	89988-04	HEX BOLT - 1/4-20 X 3/4" LG	2
14	84444	FLAT WASHER - 1/4" STEEL	2
15	83065	LOCK WASHER - 1/4"	2
16	89772	HEX NUT - 1/4-20	2
17			
18			
19			
20			

PIG TAILS & WIRE HARNESS KIT SB-2500E/1500E (253886-01)

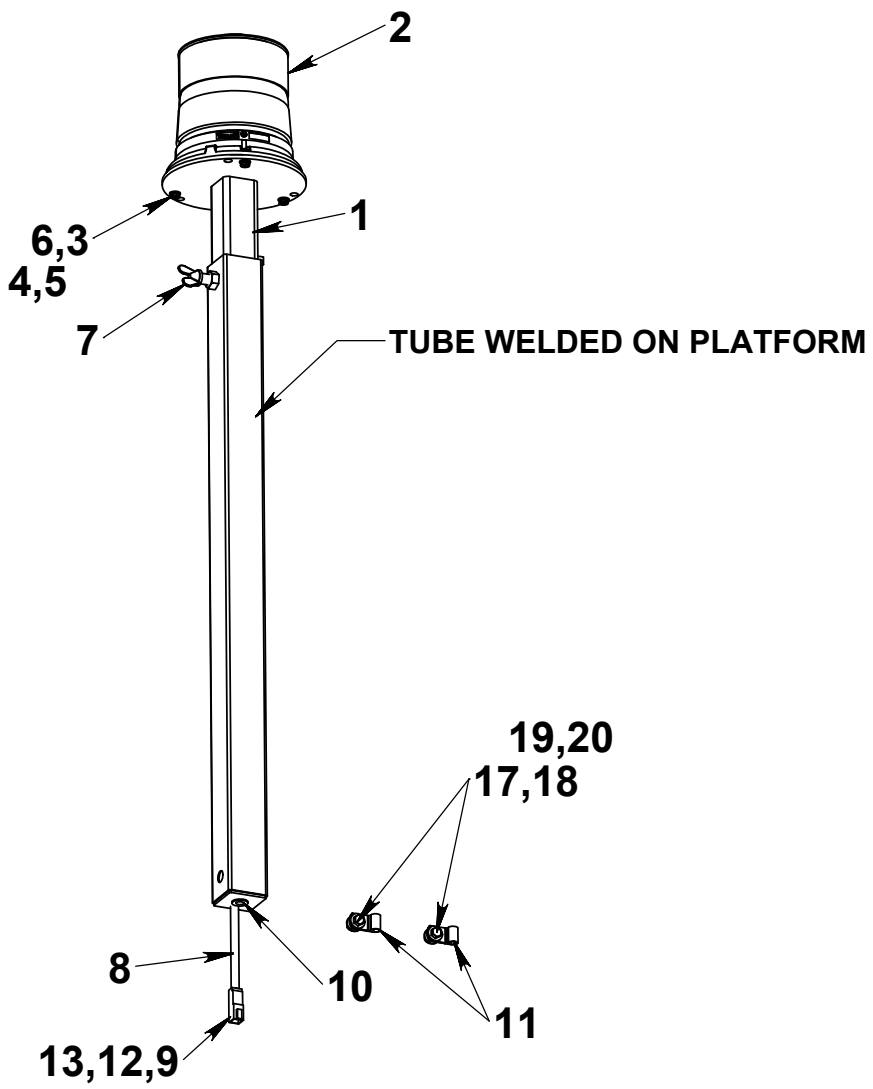
ITEM #	PART NO.	DESCRIPTION	QTY.
1	251045-04	BATTERY CABLE - NEGATIVE TO ISO SWITCH	1
2	251046-04	BATTERY CABLE - MACHINE GROUND TO STARTER	1
3	251047-04	BATTERY CABLE - ISO SWITCH TO STARTER	1
4	251048-04	BATTERY CABLE - BATTERY POSITIVE TO ISO SWITCH	1
5	251049-04	BATTERY CABLE - ISO NEGATIVE SWITCH TO STARTER	1
6	251050-04	BATTERY CABLE - MACHINE GROUND TO ISO SWITCH	1
7	237255-04	BATTERY CABLE - BATTERY JUMPER	1
8	243364-03	CABLE - SB-2500E ENGINE GROUND	1
9	250903-04	POWER CABLE - ALTERNATOR FUSE LINK TO ISO SWITCH	1
10	252629-03	CABLE - PER HEAT TO PER HEAT FUSE LINK	1
11	252628-04	CABLE - ALTERNATOR FUSE LINK TO RELAY	1
12	252623-04	CABLE - PER HEAT FUSE LINK TO ISO SWITCH	1
13	252630-04	CABLE - ALTERNATOR FUSE LINK TO ISO SWITCH	1
14	252627-04	CABLE - PER HEAT FUSE LINK TO RELAY	1
15	237251-03	PIG TAIL - 60 AMP BREAKER	1
16	243365-01	WIRE HARNESS - MAIN BREAKER & WASHDOWN	1
17	237252-03	WIRE HARNESS - ALTERNATOR	1
18	252878-01	WIRE HARNESS - PUMP	1
19	241553-02	WIRE HARNESS - C2 VALVE STACK	1
20	252898-02	HARNESS - JUNCTION BOX/OPERATOR CON (70 PIN)	1
21	253946-02	HARNESS - JUNCTION BOX/OPERATOR CON (40 PIN)	1
22	252855-02	HARNESS - RH C1 CONTROL BOX/LH C1 CONTROL BOX	1
23	252851-01	WIRE HARNESS - UPPER R/H C1 CONTROL BOX	1
24	252852-01	WIRE HARNESS - LOWER R/H C1 CONTROL BOX	1
25	214540-03	WIRE HARNESS - LIMIT SWITCH CLEAN OUT	1
26	236429-02	WIRE HARNESS - FXS, BEACON, BACK-UP & BRAKE	1
27	245246-01	WIRE HARNESS - ROAD LIGHTS & SLIDING PLATFORM	1
28	252857-02	WIRE HARNESS - C1 VALVE STACK DIN PLUG	1
29	238597-01	WIRE HARNESS - C2 VALVE STACK	1
30		WIRE HARNESS FOR SB-2500E OR SB-2500EX	REF
31	236686-02	WIRE HARNESS - SPEED SHIFT	1
32	254904-04	CABLE - ALTERNATOR TO FRAME GROUND	1

CONTOLLER ASSY - SB-2500E CUMMINS (254088-04)



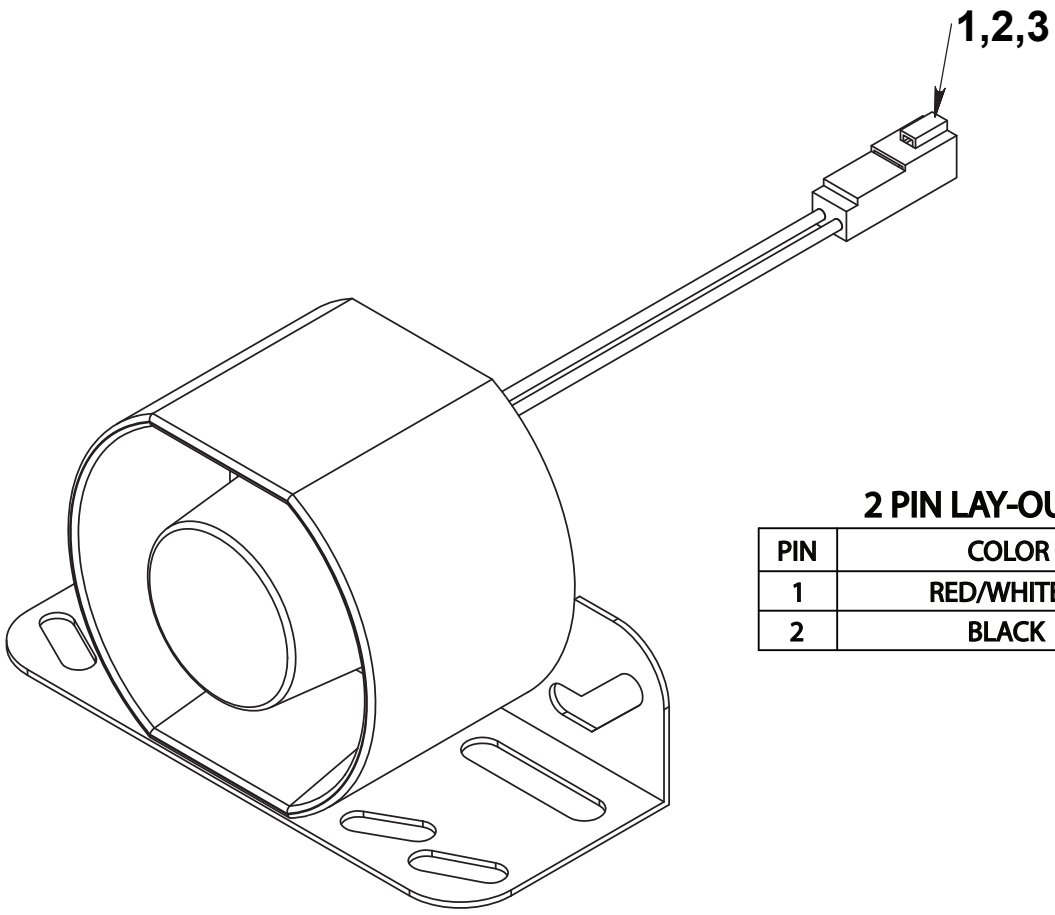
ITEM #	PART #	DESCRIPTION	QTY
1	211307-04	CONTROL * 50 PIN	1
2	254089-04	SOFTWARE - SB-2500E CUMMINS CONTROLLER	1
3	247997-04	DISPLAY - PV450 MONITOR	1
4	254769-04	SOFTWARE - SB 3000 SERIES DISPLAY	1

ASSEMBLY ~ BEACON LED LIGHT
(248014-02)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	209506-01	WELDMENT-STROBE MOUNT	1
2	247924-03	LIGHT * BEACON, LED, AMBER, 24VDC	1
3	90101	SCREW SLOTTED HEAD 10-32 X 3/4	3
4	92552	WASHER * FLAT #10	3
5	90103	WASHER * LOCK #10	3
6	90102	NUT * 10-32 UNF HEX	3
7	135982-04	BOLT * WING 1/2-13 X 1 GD.8	1
8	248014-02-1	RETRACTILE CORD * CABLE	1
9	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
10	87318-04	RUBBER * GROMMET, 3/8 ID, 9/16 HOLE SIZE, 3/16 PLATE	1
11	20K33	CLAMP * 3/8" DIA. X 1/2" WTH. X 1/4	2
12	137176-04	ELEC * 16-18 PIN	2
13	206401-04	ELEC * SECONDARY LOCK 2 PIN RECEPT.	1
14	97735	WIRE * FEMALE INSL.SPADE TERMINAL	2
15	38Z57	WIRE * TERMINAL 16-14 GA.MALE INSUL	2
16	248014-02-2	SPLIT LOOM ~ 1/4	1
17	89988-04	BOLT * HEX 1/4"-20 X 3/4"	2
18	84444	WASHER * FLAT 1/4" STEEL	4
19	83065	WASHER * LOCK 1/4" SPRING STEEL	2
20	89772	NUT * 1/4"-20 HEX GRADE 8	2

ASSY-ALARM REVERSING
(215976-03)

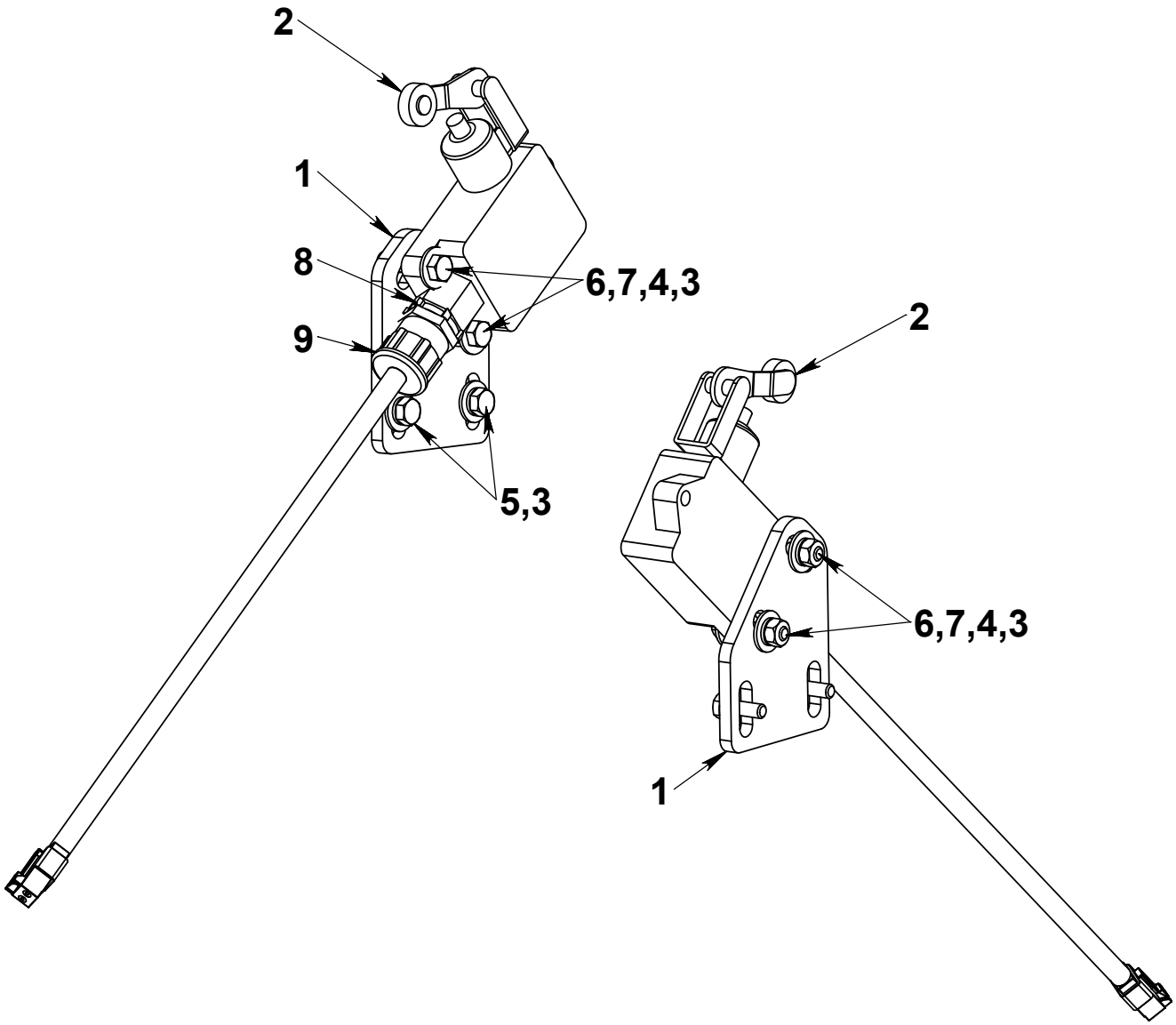


2 PIN LAY-OUT

PIN	COLOR
1	RED/WHITE
2	BLACK

ITEM #	PART NO.	DESCRIPTION	QTY.
1	89077-04	ALARM - REVERSING	1
2	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
3	206401-04	SECONDARY LOCK	1
4	137176-04	DEUTSCH 16 AWG PIN	2
5	95021	SPLIT LOOM - 1/4" PLASTIC	6"

ASSEMBLY-C2 CLEAN OUT DOOR SWITCH (251842-03)

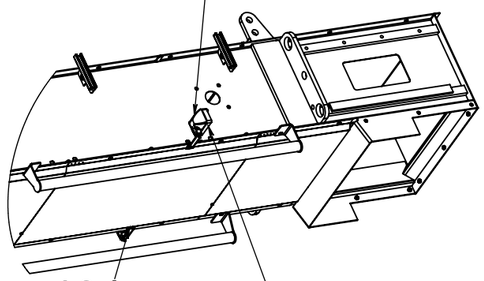


ITEM #	PART #	DESCRIPTION	Default/ QTY
1	251850-04	DETAIL-C2 COD LIMIT SWITCH BRACKET	1
2	92023-04	SWITCH * LIMIT (RH)	1
3	84444	WASHER * FLAT 1/4" STEEL	6
4	83065	WASHER * LOCK 1/4" SPRING STEEL	4
5	89988-04	BOLT * HEX 1/4"-20 X 3/4"	2
6	90763	BOLT * HEX 1/4"-20 X 1 1/4"	2
7	89772	NUT * 1/4"-20 HEX GRADE 8	2
8	80643-04	NUT * 1/2" CONDUIT LOCKING	1
9	80645-04	ELEC * CGB 193 CONNECTOR 1/2"	1

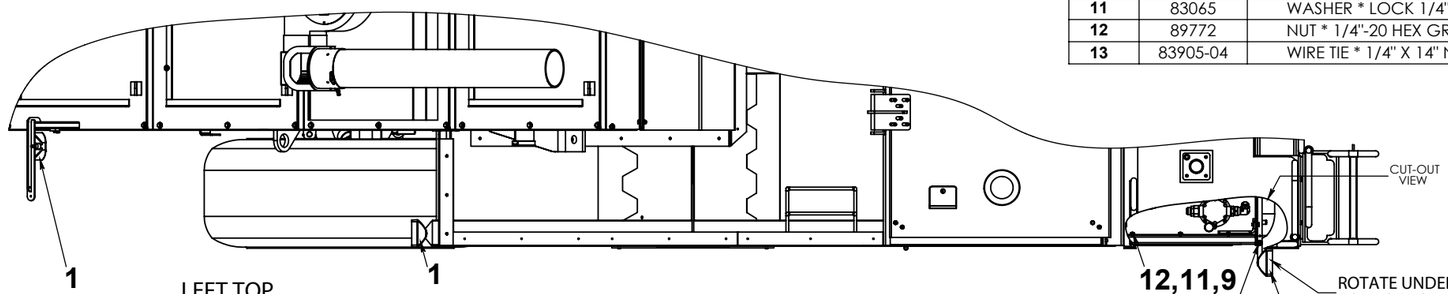
ASSY- ROAD LIGHT PACKAGE 24VDC
(245223-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	89801-04S	LIGHT * HELLA LAMP 24 VOLT	8
2	140777-04	DETAIL-REAR LIGHT MOUNTING BRKTS	2
3	245315-04	DETAIL-C3 LIGHT MOUNTING BRKTS	2
4	139702-04	WASHER * 3/8 STAR INTERNAL-EXTERNAL	12
5	96476	BOLT * HEX 3/8"-16 X 1 1/4"	2
6	83757	WASHER ~ FLAT 3/8 STEEL	2
7	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
8	83055	NUT * 3/8-16 HEX GRADE 8	2
9	20K33	CLAMP * 3/8" DIA. X 1/2" WTH. X 1/4	18
10	83114	BOLT * HEX 1/4"-20 X 1/2"	6
11	83065	WASHER * LOCK 1/4" SPRING STEEL	12
12	89772	NUT * 1/4"-20 HEX GRADE 8	6
13	83905-04	WIRE TIE * 1/4" X 14" NYLON (NOT SHOWN)	50

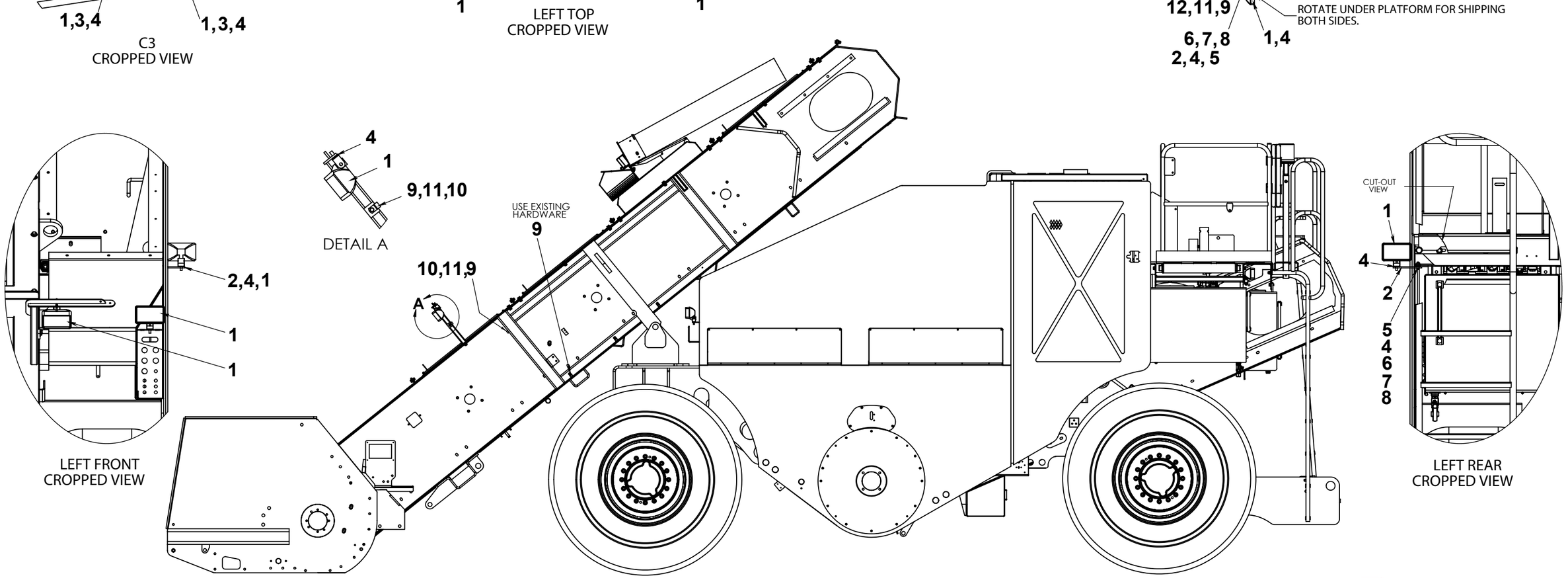
MOUNT THE BRACKETS ON THE BOTTOM SIDE
OF THE CONVEYOR SIDEWALL FLANGES;
USING THE EXISTING HARDWARE & IN THE
NOTCED AREA OF THE INSULATION COVER
(4th. BOLT POSITION FROM THE DISCHARGE END);
MOUNT THE LAMPS TO THE TOP SIDE OF THE BRACKETS.
(TYP BOTH SIDES)



C3
CROPPED VIEW



LEFT TOP
CROPPED VIEW



LEFT FRONT
CROPPED VIEW

LEFT REAR
CROPPED VIEW

ROADTEC
an Astec Industries Company

H

6 OFF
ON
5
4 START
JUMPER
10 O.C. STOP
11 L.H.C. STOP
12 R.H.C. STOP
RY8 POWER RELAY
9
2
3
1
46
9

ENG SNSR POWER 10 a — ENG SNS PWR
HID WORK LIGHTS 30 a — 39A
HOPPER CONSOLE 20 a — 1
FLOW GATE & C3 15 a — 24
AUXILIARY 30 a — 26
PROPEL, BRAKE & CONVEYORS 15 a — 25
FRONT & REAR BLOWERS 20 a — 36
LIGHTS 30 a — 39
CONTROLLER POWER 20 a — CNTR+

10A STRT
15A BECM5
15A BECM4
15A BECM3
15A BECM2
15A BECM1
ECM ENGINE "SEE SHEETS 7 & 8"

46 NEXT SHEET

BREAKERS INSTALLED BEFORE BATTERY DISCONNECT ON TIER 4F MACHINES ONLY

BREAKERS INSTALLED BY ROADTEC IN BATTERY COMPARTMENT

RY1 LOCATED IN JUNCTION BOX

47 47

80A
40A
12V
12V
M
WASH DOWN
BATTERY DISCONNECT SWITCH
15A BECM5
15A BECM4
15A BECM3
15A BECM2
15A BECM1
ECM ENGINE "SEE SHEETS 9 & 10"

125A
150A
24
6
ALT.
INTAKE HEATER

RY4 LOCATED IN BATTERY COMPARTMENT
INT REL + PIN 75 ENG ECU
RY4
RELAY GND – PIN 76 ENG ECU

40
RY1
STARTER LOCKOUT + PIN 83 ENG ECU
RY3
OUTPUT RETURN – PIN 76 ENG ECU
RY3 LOCATED IN BATTERY COMPARTMENT
M
STARTER

DUMP VALVE

GROUND TO ENGINE STUD BEFORE BATTERY DISCONNECCT ON TIER 4F MACHINES ONLY

RELAY LEGEND

RY1 – START ASSIST
RY2 – NEUTRAL START
RY3 – STARTER LOCKOUT
RY4 – INTAKE HEATER
RY7 – HORN
RY8 – MAIN POWER
RY9 – LATCHING (SPEED SHIFT)
RY10 – NEUTRAL BRAKE
RY11 – DEF SUPPLY MODULE HEATER
RY12 – NEUTRAL DISK BRAKE
RY13 – FOOT BRAKE
RY14 – HID WORK LIGHTS
RY15 – DEF HEATER RELAY (PRESSURE)
RY16 – DEF HEATER RELAY (BACKFLOW)
RY17 – DEF HEATER RELAY (SUCTION)
SPARE/RY18/ – FXS DISABLE RELAY

LEGEND

= SOLENOID (Y #)
= NORMALLY OPEN SWITCH (N.O.)
= LIMIT SWITCH (LS #)
= PRESSURE SWITCH (PS #)
= PUSH BUTTON (PB #)
= NORMALLY CLOSED SWITCH (N.C.)
= RESISTOR (R #)
(RY #) = RELAY
= WHITE LIGHT (L #)
= ORANGE LIGHT (L #)
= RED LIGHT (L #)
= TERMINAL NUMBER
= WIRE NUMBER OR WIRE CONNECTION
= BATTERY
= CIRCUIT BREAKER (CB #)
= DIODE (D #)
INTLK = INTERLOCK
= GROUND
FRT = FRONT
(P #) = PLUG
= OPTIONAL ITEMS (EXCEPT SWITCH BORDERS, RELAYS, LIMIT SWITCHES, JUMPERS)
= PUMP COIL
= RELAY

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	DATE	ISSUES	LOCATION	BY
E	12-4-13	CLARIFIED WIRING OF POWER AND GROUND TO JOYTSICK 1/B		KDM
F	3-25-14	ADDED RELAY SHEET 6 RY15, RY16, & RY 17, DUMP LIGHT OPTIONS 1/B		JW
G	8/11/14	ADDED C9 ECM PIN CONNECTIONS AND SHEET 7 5/A		DS
H	2/4/15	UPDATED SHEET 1, ADDED SHEET 3 FOR C2/C3 AUTO SHUTOFF OPTION, ADDED 120 OHM 1/A		KDM
		RESISTOR TO C2 CIRCUIT SHEETS 3 & 4, ADDED SHEETS 9 & 10 FOR TIER 4F MACHINES		
		ADDED NOTES TO ENGINE SHEETS FOR CLARIFICATION		
J	4/20/15	ADDED NOTE TO SHEET 4. 1/B		SAD

REV.	SN#	DATE	ISSUES	BY
A		10-1-13	REVISED BEACON LIGHT & LIGHT CIRCUIT AND DISC BRAKE 2/B	JW
B		10-23-13	15-1 WAS 15-2 SHEET 2 1/B	KDM
C		11-21-13	DU-LHC WAS AT PIN 9 OF CONTROLLER NOW AT PIN 24 1/B	KDM
			PIN 25 OF CONTROLLER WAS SPARE INPUT NOW "LIGHTS ON" WIRE 104.	
			PIN 26 OF CONTROLLER WAS SPARE INPUT NOW "PAVE SPEED" WIRE 72	
			REMOVED THR+ AND THR– FROM PINS 28 AND 29 OF ENGINE PLUG	
D		12-4-13	CORRECTED WIRING OF JOYSTICK/EDC AND SWITCHES SHTS 3 AND 4 1/B	KDM

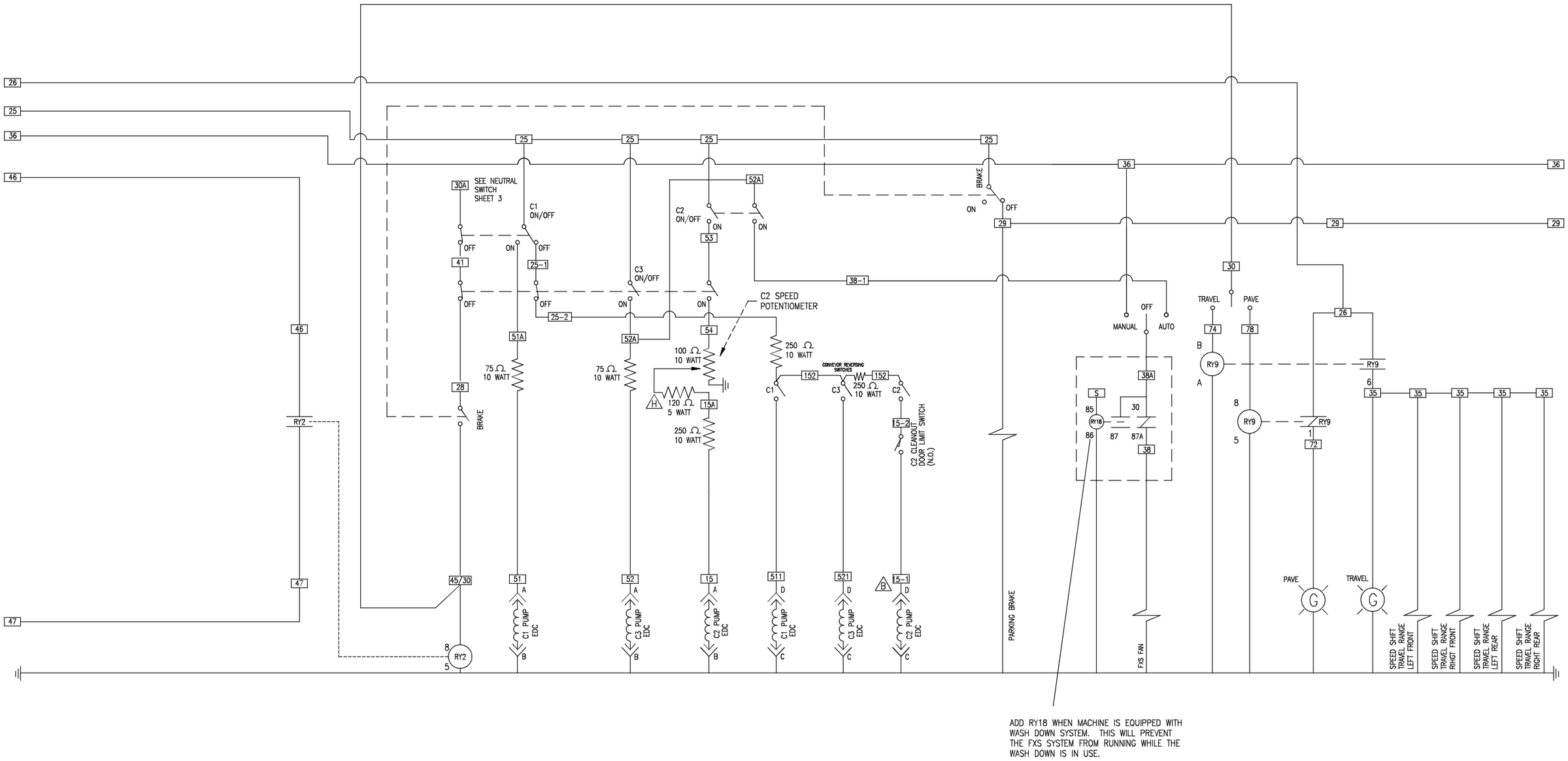
ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER	SHEET NO	FAB CODE	EFFECTIVE S/N
SB-2500E	1 OF 10	603	SEE NOTES

DRAWN BY	TOTAL WT. (LBS)	DWG NO	REV.
KDM		252557-01	J

SCALE	DATE
1=1	7-31-13



ADD RY18 WHEN MACHINE IS EQUIPPED WITH WASH DOWN SYSTEM. THIS WILL PREVENT THE FXS SYSTEM FROM RUNNING WHILE THE WASH DOWN IS IN USE.

2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE

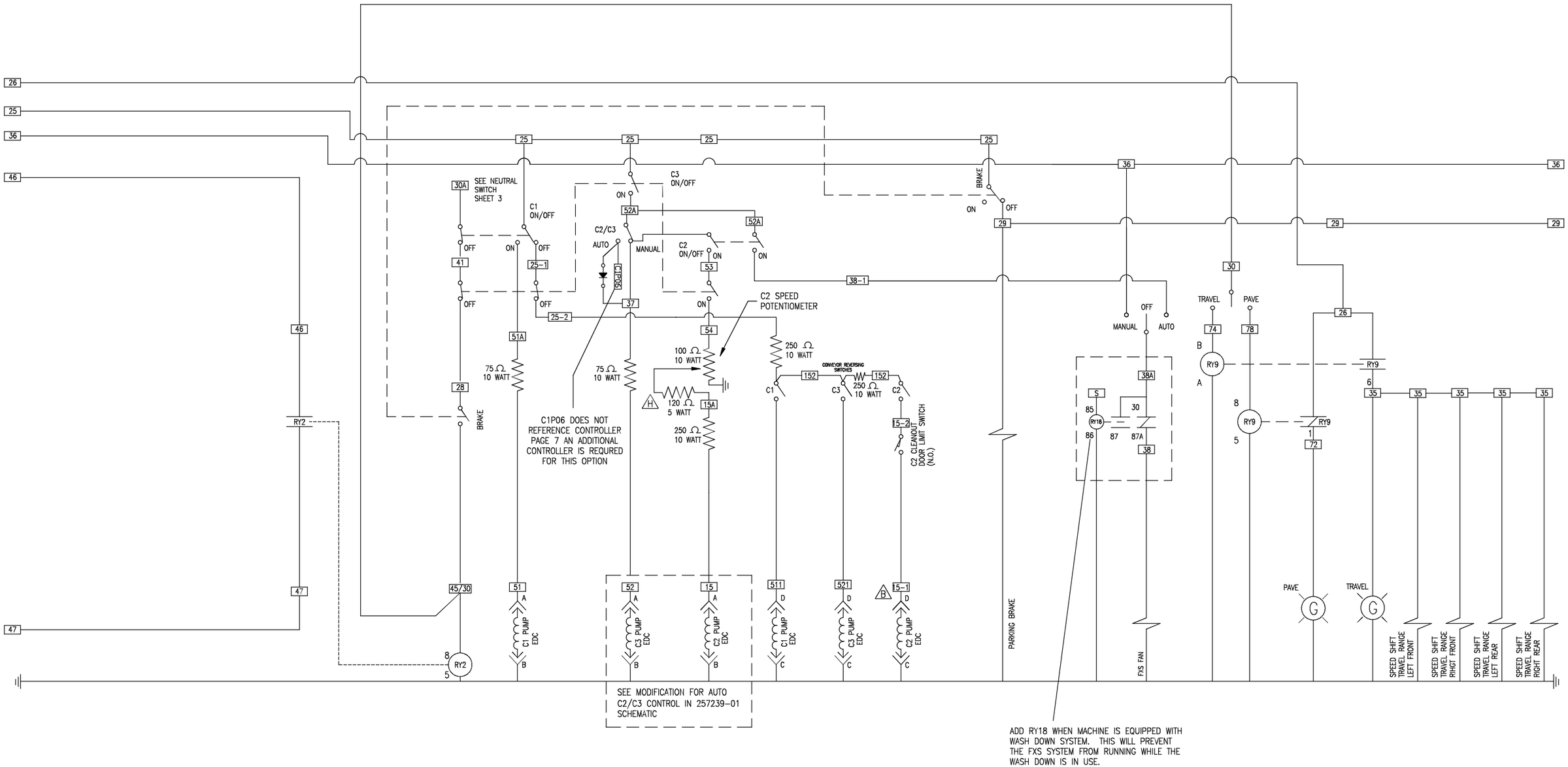
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER: SB-2500E	SHEET NO: 2 OF 10	FAB CODE: 603	EFFECTIVE S/N: SEE NOTES
DRAWN BY: KDM	TOTAL WT. (LBS):	DWG NO: 252557-01	REV: J
SCALE: 1=1	DATE: 7-31-13		



2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

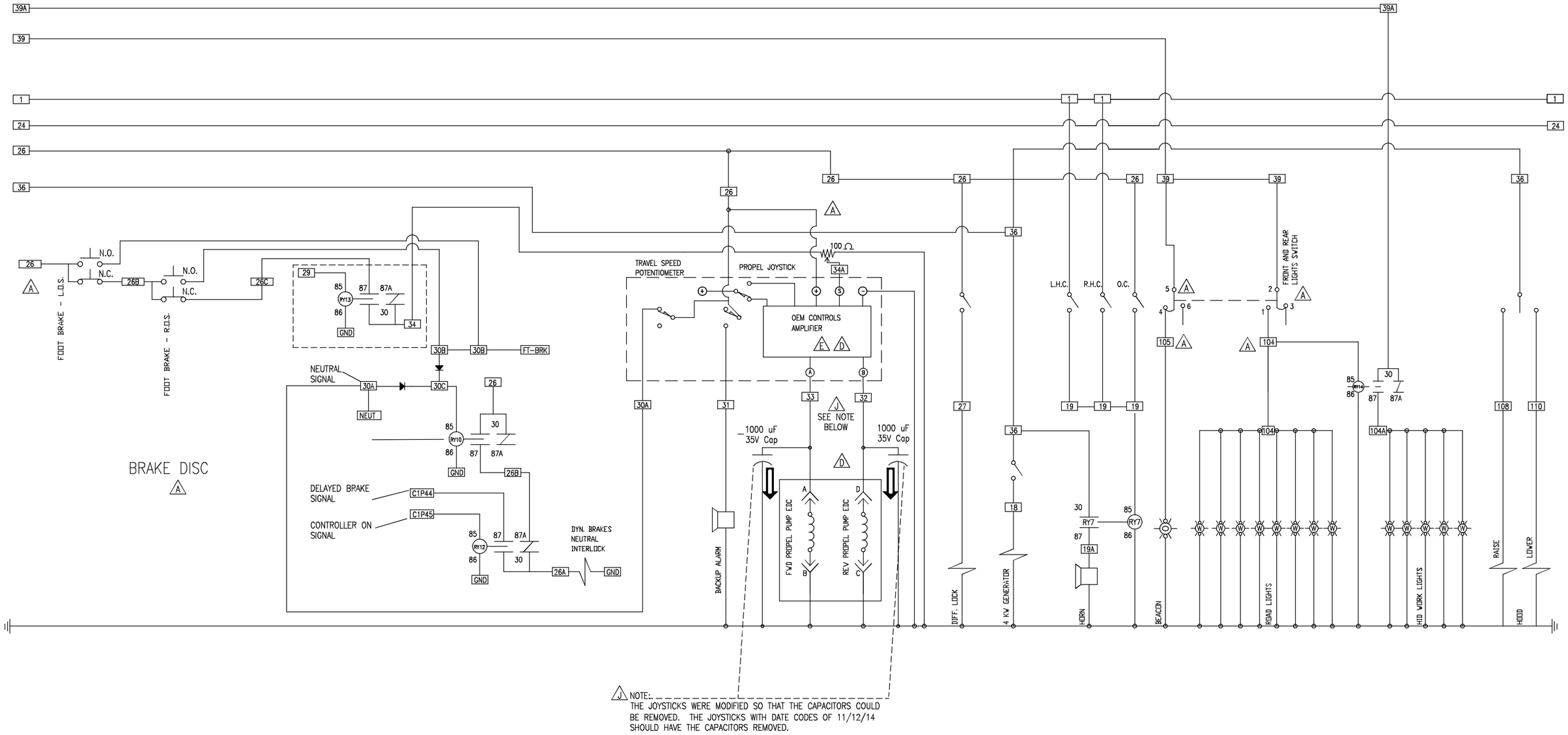
ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER: SB-2500E | SHEET NO: 3 OF 10 | FAB CODE: 603 | EFFECTIVE S/N: SEE NOTES

DRAWN BY: KDM | TOTAL WT. (LBS): | DWG NO: 252557-01 | REV.: J

SCALE: 1=1 | DATE: 7-31-13



J NOTE:
THE JOYSTICKS WERE MODIFIED SO THAT THE CAPACITORS COULD BE REMOVED. THE JOYSTICKS WITH DATE CODES OF 11/12/14 SHOULD HAVE THE CAPACITORS REMOVED.

2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE

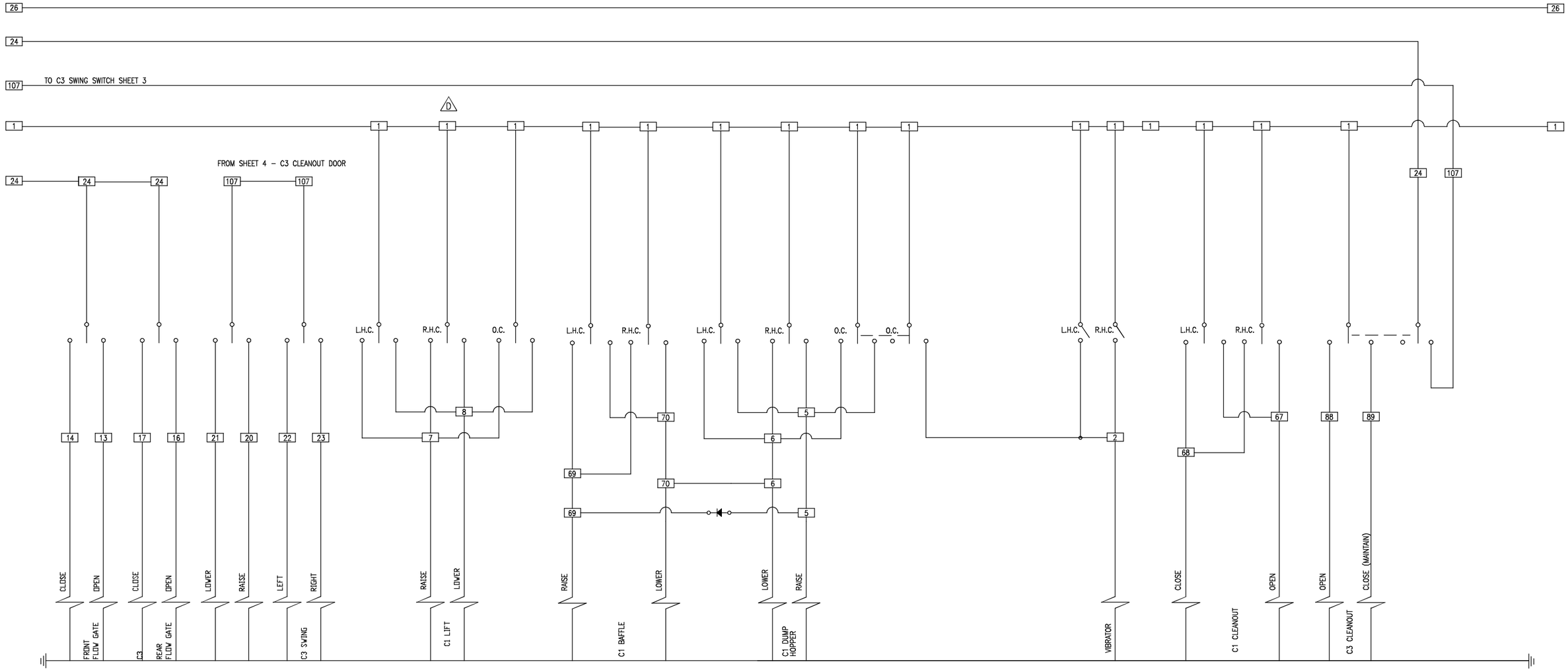
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER	SB-2500E	SHEET NO	4 OF 10	FAB CODE	603	EFFECTIVE S/N	SEE NOTES
DRAWN BY	KDM	TOTAL WT. (LBS)		DWG NO	252557-01	REV.	J
SCALE	1=1	DATE	7-31-13				



2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE

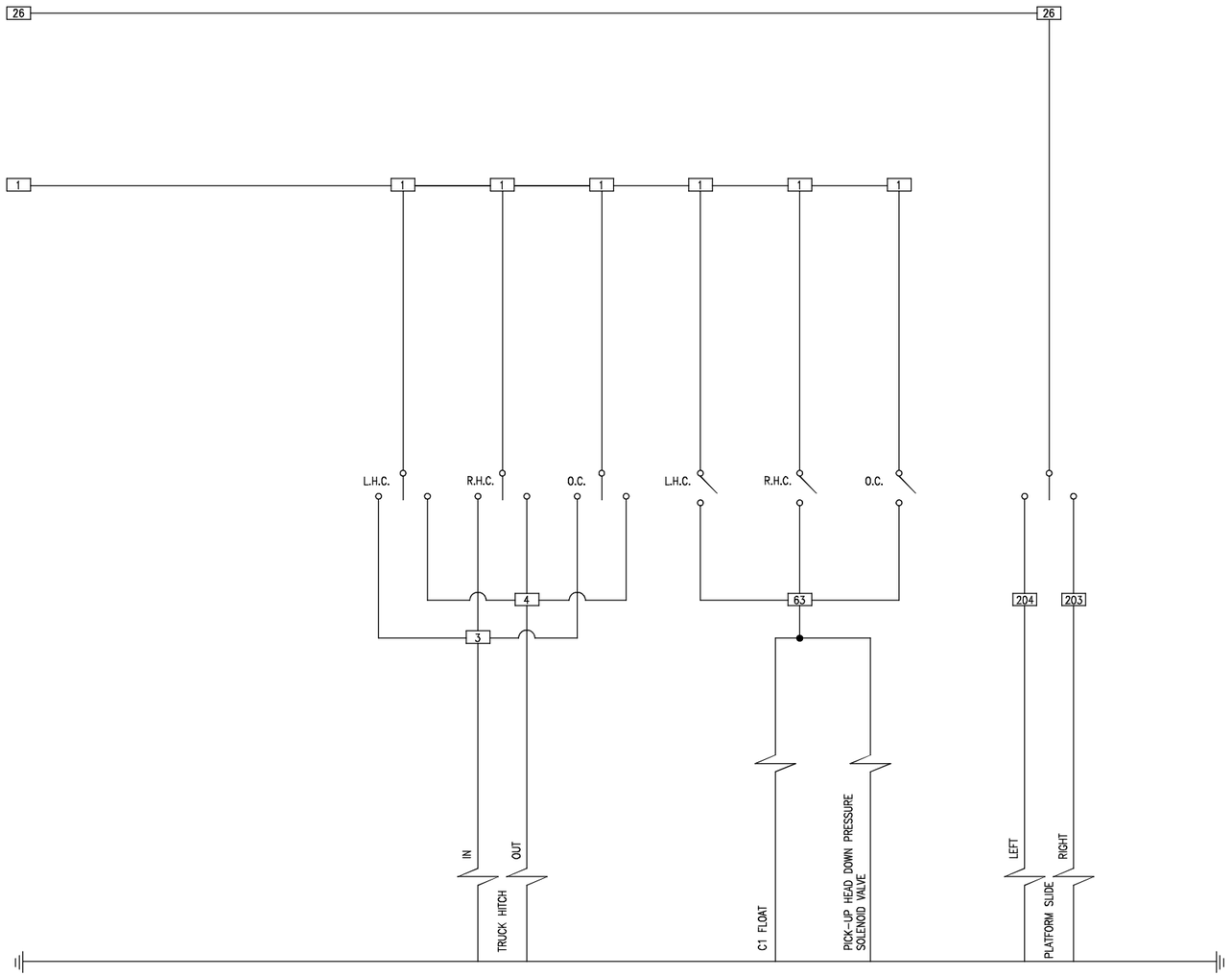
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER	SB-2500E	SHEET NO	FAB CODE	EFFECTIVE S/N
		5 OF 10	603	SEE NOTES
DRAWN BY	TOTAL WT. (LBS)	DWG NO		REV.
KDM		252557-01		J
SCALE	DATE			
1=1	7-31-13			



2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

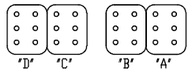
PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

1 REQ'D PER	SB-2500E	SHEET NO	FAB CODE	EFFECTIVE S/N
		6 OF 10	603	SEE NOTES
DRAWN BY: KDM	TOTAL WT. (LBS):	DWG NO: 252557-01		REV: J
SCALE: 1=1	DATE: 7-31-13			

H THIS SHEET APPLIES ONLY TO TIER 4I
2500e – T4I CUMMINS QSL9 ENGINE

2500e – T4I CUMMINS QSL9 ENGINE

PV-450 CONNECTORS



6-PIN DEUTSCH CONNECTOR 'B'

CNTR+ – PIN 1
J1939+ – PIN 2
J1939– – PIN 3
---- – PIN 4
CNTR+ – PIN 5
GND – PIN 6

NO CONNECTIONS TO 'A', 'C' & 'D' DUMMY PLUGS TO BE INSTALLED IN UNUSED CONNECTORS

120 OHM TERMINATING RECEPTACLE AND PLUG

CUMMINS DIAGNOSTIC CONNECTOR

GND	A	GROUND
BECM	B	POWER
	C	J1939+
	D	J1939–
	E	
	F	
	G	

60 PIN ECM CONNECTOR

	PIN	
BATTERY +	1	BECM
BATTERY +	2	BECM1
KEYSWITCH POWER	3	9
INT AIR HEATER RELAY	4	GRID HEAT +
	5	
WAIT TO START LIGHT	6	
	7	
	8	
	9	
	10	
BATTERY +	11	BECM2
BATTERY +	12	BECM3
RELAY GROUND	13	OUTPUT RETURN
	14	
STARTER LOCKOUT +	15	STARTER LOCK+
	16	
J1939 +	17	J1939+
J1939 –	18	J1939–
ANALOG/DIGITAL GND	19	AN/DIG–
	20	
	21	GND
	22	GND
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
	31	GND
	32	GND
	33	
	34	
	35	
	36	
	37	
	38	
	39	
	40	
	41	
	42	
OEM SENS–	43	OEM SENS–
COOL LEVEL	44	COOL LEVEL
INLET TEMP	45	INLET TEMP
	46	
	47	
DOC OUTLET TEMP	48	DOC OUTLET TEMP
	49	
	50	
	51	
SENSOR +	52	SENSOR +
	53	
DPF OUTLET TEMP	54	DPF OUTLET TEMP
DPF DELTA PRESS	55	DPF DELTA PRESS
	56	
	57	
DPF OUTLET PRESSURE	58	DPF OUTLET PRESS
	59	
	60	

WAIT TO START LAMP

CEM+

LOCATED IN 3-PIN CONNECTOR BRANCH OF ENGINE HARNESS

120 OHM

12V

12V

NEGATIVE BATTERY DISCONNECT SWITCH SHOWN HERE FOR REFERENCE ONLY. COMPLETE WIRING OF BATTERY CIRCUIT ON SHEET 1.

GROUND WIRES OUT OF ENGINE PLUG ARE IN (2) 3/8" RING TERMINAL AND ARE GROUNDED AT STUD ON ENGINE. GROUND WIRES FROM JUNCTION BOX ARE TERMINATED ON THE SAME STUD. AN 8 AWG WIRE IS TAKEN FROM THIS STUD TO NEGATIVE BATTERY DISCONNECT.

10-PIN AFTER TREATMENT PLUG 241672-04

FUNCTION	WIRE #	10-PIN LOCATION	60-PIN LOCATION
SENSOR RETURN	AN/DIG–	2	19
INLET TEMP	INLET TEMP	6	45
DOC OUTLET TEMP	DOC OUTLET TEMP	5	48
DPF OUTLET TEMP	DPF OUTLET TEMP	7	54

4-PIN FRAMATOME CONNECTOR (241671-04)

FUNCTION	WIRE #	4-PIN LOCATION	60-PIN LOCATION
INLET TEMP	OEM SENSOR –	1	43
DOC OUTLET TEMP	DPF DELTA PRESS	2	55
START LOCKOUT–	DPF OUTLET PRESS	3	58
POWER PACK	SENSOR +	4	52

MC050-10

POWER GROUND	1	GND GROUND
+24V	2	CNTR+ +24V
CANO HIGH	3	CANO DATA +
CANO LOW	4	CANO DATA –
CANO SHIELD	5	
THROTTLE INCREASE	6	THR+
THROTTLE DECREASE	7	THR–
5V SENSOR POWER	8	C1P8
DUMP UP LHC (OPTION)	9	
DUMP DOWN LHC (OPTION)	10	DD-LHC
DUMP HOLD LHC (OPTION)	11	DH-LHC
DUMP UP RHC (OPTION)	12	DU-RHC
DUMP DOWN RHC (OPTION)	13	DD-RHC
DUMP HOLD RHC (OPTION)	14	DH-RHC
DUMP UP OC (OPTION)	15	DU-OC
DUMP DOWN OC (OPTION)	16	DD-OC
DUMP HOLD OC	17	DH-OC
CAC TEMP IN	18	CAC TEMP IN
HYD TEMP IN	19	HYD TEMP IN
CAN1 HIGH (NO CONNECTION)	20	
CAN2 LOW (NO CONNECTION)	21	
FOOT BRAKE IN	22	FT-BRK
NEUTRAL IN	23	NEUT
WAIT TO START	24	F-24
DUMP UP LHC (OPTION)	25	DU-LHC
LIGHTS	26	104
PAVE SPEED	27	72
CW DUMP LIGHT OPTION RELAY GROUND	28	C1P28 SEE OPTION
SPARE INPUT	29	C1P29
SPARE INPUT	30	C1P30
DUMP UP LIGHT (OPTION)	31	C1P31
DUMP DOWN LIGHT (OPTION)	32	C1P32
DUMP HOLD LIGHT (OPTION)	33	C1P33
SPARE DIGITAL OUTPUT	34	C1P34
SPARE DIGITAL OUTPUT	35	C1P35
SPARE DIGITAL OUTPUT	36	C1P36
SPARE MULTI-FUNCTION OUTPUT	37	C1P37
SPARE MULTI-FUNCTION OUTPUT	38	C1P38
SPARE MULTI-FUNCTION OUTPUT	39	C1P39
SPARE MULTI-FUNCTION OUTPUT	40	C1P40
SPARE MULTI-FUNCTION OUTPUT	41	C1P41
SPARE MULTI-FUNCTION OUTPUT	42	C1P42
SPARE MULTI-FUNCTION OUTPUT	43	C1P43
NEUTRAL INTERLOCK RELAY SIG (SHEET 3)	44	C1P44
NEUTRAL INTERLOCK RELAY ON (SHEET 3)	45	C1P45
FAN PWM	46	FAN PWM
+24V	47	CNTR+
+24V	48	CNTR+
+24V	49	CNTR+
+24V	50	CNTR+

5K OHM

5K OHM

30B → 30C

30A

DU-LT

DD-LT

DH-LT

GND

36

NOTE: ONLY CONNECT FT-BRK, NEUT, C1P44 & C1P45 IF MODIFIED DISC BRAKE KIT IS INSTALLED

COOLING FAN

2500e – T4I CUMMINS QSL9 ENGINE
2500EX – LRC (T3) CAT C9 ENGINE
2500e – T4F CUMMINS QSL9 ENGINE

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

ROADTEC

PART NAME	ELECTRICAL SCHEMATIC SB-2500E TIER IV
REQ'D PER	1
SB-2500E	
SHEET NO	7 OF 10
FAB CODE	603
EFFECTIVE S/N	SEE NOTES
DRAWN BY	KDM
TOTAL WT. (LBS)	
DWG NO	252557-01
REV.	J
SCALE	1=1
DATE	7-31-13

REV.	SN#	DATE	ISSUES	BY

2500EX – LRC (T3) CAT C9 ENGINE

70 PIN INSTRUMENTATION CONNECTOR

	COLOR	AWG	NO.	PIN	
				1	
ANALOG SENSOR POWER	ORANGE	16	125	2	
ANALOG SENSOR RETURN	BROWN	16	T993	3	
DIGITAL SENSOR POWER	ORANGE	16	167	4	
DIGITAL SENSOR RETURN	BLACK	16	A274	5	
MAINT. DUE RESET SWITCH	BLUE	16	F426	6	
TORQUE LIMIT SWITCH	GREEN	16	M909	7	
CAT DATALINK +	PINK	16	893	8	
CAT DATALINK –	WHITE	16	892	9	
ETHER START VALVE RELAY	PINK	16	382	10	
AIR SHUTOFF RELAY	BROWN	16	G971	11	
				12	
				13	
				14	
AUXILIARY PRESSURE SENSOR	BLUE	16	G469	15	
AUXILIARY TEMPERATURE SENSOR	GREEN	16	G488	16	
				17	
				18	
				19	
				20	
				21	
				22	
NOT USED	YELLOW	16	H407	23	
WAIT TO START LIGHT				24	
				25	
				26	
				27	
DIAGNOSTIC LAMP	RED	16	F404	28	
WARNING LAMP	GREEN	16	F420	29	
MAINTENANCE DUE LAMP	YELLOW	16	F424	30	
NOT USED	GREEN	16	T936	31	
				32	
				33	
J1939 DATA –	GREEN	16	K990	34	J1939-1
NOT USED				35	
				36	
				37	
				38	
				39	
NOT USED	GRAY	16	H406	40	
PTO INTERRUPT SWITCH	ORANGE	16	M904	41	
J1939 SHIELD	BLACK	16	A234	42	
				43	
REMOTE SHUTDOWN	WHITE	16	F716	44	
	WHITE	16	G968	45	
				46	
INTERMEDIATE ENGINE SPPED SWITCH	BLUE	16	H405	47	
+ BATTERY UNSWITCHED	ORANGE	16	150	48	BECM
COOLANT LEVEL SENSOR	WHITE	16	E452	49	
J1939 DATA +	YELLOW	16	K900	50	J1939+1
				51	
+ BATTERY UNSWITCHED	ORANGE	16	150	52	BECM1
+ BATTERY UNSWITCHED	ORANGE	16	150	53	BECM2
75% OVERSPEED VERIFY SWITCH	PINK	16	387	54	
+ BATTERY UNSWITCHED	ORANGE	16	150	55	BECM3
PTO ENABLE SWITCH	PURPLE	16	381	56	GND
				57	
PTO RAMP UP/SET SWITCH	GREEN	16	G955	58	THR+
NOT USED	PINK	16	E798	59	
PTO RAMP DOWN/RESUME SWITCH	WHITE	16	G967	60	THR-
BATTERY –	BLACK	16	229	61	GND
				62	
BATTERY –	BLACK	16	229	63	GND
				64	
BATTERY –	BLACK	16	229	65	GND
THROTTLE POSITION SENSOR PWM	GRAY	16	A307	66	
SOLENOID COMMON	YELLOW	16	G969	67	
	GREEN	16	C912	68	
BATTERY –	BLACK	16	229	69	GND
+ BATTERY SWITCHED	YELLOW	16	120	70	9

THROTTLE

UP

DOWN

120 OHM TERMINATING RECEPTACLE AND PLUG

6-PIN DEUTSCH CONNECTOR "B"

CNTR+ – PIN 1
J1939+ – PIN 2
J1939– – PIN 3
----- – PIN 4
CNTR+ – PIN 5
GND – PIN 6

PV-450 CONNECTORS

"D" "C" "B" "A"

NO CONNECTIONS TO "A", "C" & "D" DUMMY PLUGS TO BE INSTALLED IN UNUSED CONNECTORS

CAT DATALINK CONNECTOR

9	A	POWER
GND	B	GROUND
	C	J1939 SHIELD
	D	CDL+
	E	CDL–
	F	J1939–
	G	J1939+

120 OHM

MC050-10

POWER GROUND	1	GND GROUND
+24V	2	CNTR+ +24V
CANO HIGH	3	CANO DATA +
CANO LOW	4	CANO DATA –

BATTERY DISCONNECT SWITCH

THIS SHEET APPLIES ONLY TO TIER 3
2500EX – LRC (T3) CAT C9 ENGINE

H

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500E TIER IV

REQ'D PER	SHEET NO	FAB CODE	EFFECTIVE S/N
1	8 OF 10	603	SEE NOTES

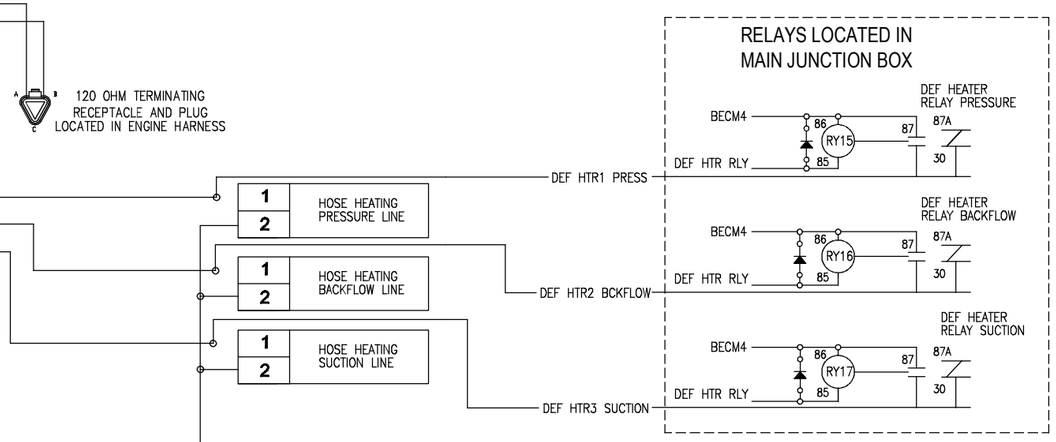
DRAWN BY	TOTAL WT. (LBS)	DWG NO	REV.
KDM	SB-2500E	252557-01	J

SCALE	DATE
1=1	7-31-13

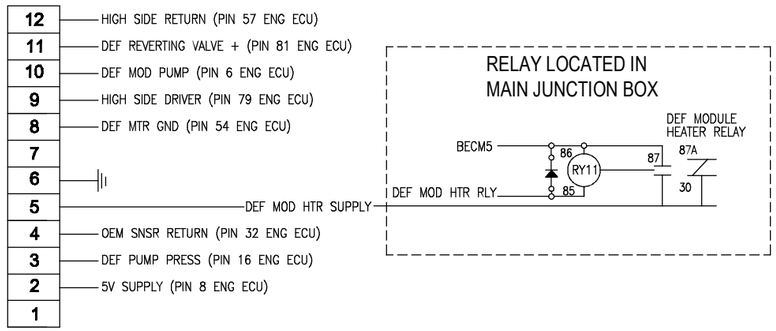
THIS SHEET APPLIES ONLY TO TIER 4F
2500e – T4F CUMMINS QSL9 ENGINE

96-PIN ENGINE PLUG

POSITION	MODULE/FUNCTION	WIRE #
1	BATTERY SUPPLY (+)	BECM1
3	DEF LINE HEATERS RELAY CONTROL	DEF HTR RLY
5	KEY SWITCH	CB12
6	DEF SUPPLY MODULE PUMP MODE/TEMPERATURE DRIVER	DEF MOD PUMP
7	DEF SUPPLY MODULE HEATER RELAY	DEF MOD HTR RLY
8	5V SENSOR SUPPLY	5V SUPPLY
13	WATER IN FUEL SENOR	WIF
16	DEF PRESSURE SENSOR - (PUMP MODULE)	DEF PUMP PRESS
22	CAN 1+	CAN 1+
25	BATTERY SUPPLY (+)	BECM1
26	BATTERY SUPPLY (+)	BECM2
27	BATTERY SUPPLY (+)	BECM2
28	BATTERY SUPPLY (+)	BECM3
32	OEM SNSR RETURN	OEM SNSR RETURN
35	COOLANT LEVEL	COOL LEVEL
38	DEF HEATER 1 - PRESS LINE	DEF HTR1 PRESS
39	DEF HEATER 2 - BACKFLOW LINE	DEF HTR2 BACKFLOW
40	DEF HEATER 3 - SUCTION LINE	DEF HTR3 SUCTION
46	CAN 1-	CAN 1-
49	GROUND (BATTERY RETURN -)	GND
50	GROUND (BATTERY RETURN -)	GND
51	GROUND (BATTERY RETURN -)	GND
52	GROUND (BATTERY RETURN -)	GND
53	DEF DOSING INJECTOR VALVE	DEF DOS INJ-
54	DEF PUMP MOTOR RETURN	DEF MTR GND
57	HIGH SIDE RETURN	ECM RETURN GENERAL
62	OEM AAD & SW RETURN	ECM RELAY RETURN (SWITCH,TEMP,LEVEL)
73	BATTERY RETURN	BATT RETURN (-)
75	INTAKE AIR HEATER	INT HTS
76	HIGH SIDE RETURN	STRTLOCK- / INT HTR-
77	DEF DOSING INJECTION VALVE	DEF DOSING INJ+
79	DEF PUMP MOTOR SUPPLY	HIGH SIDE DRIVER
81	DEF REVERTING VALVE	DEF REVERTING VLV+
82	DEF TANK HEATING RELAY/VALVE	HIGH SIDE ON/OFF DRIVER
83	STARTER LOCKOUT RELAY	STRTLOCK+
84	SCR LINE HEATERS CURRENT MONITOR 1 OF 2	CURRENT MONITOR (I-MON)
85	SCR LINE HEATERS CURRENT MONITOR 2 OF 2	CURRENT MONITOR (I-MON)



DEF SUPPLY
MODULE CONNECTOR



all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

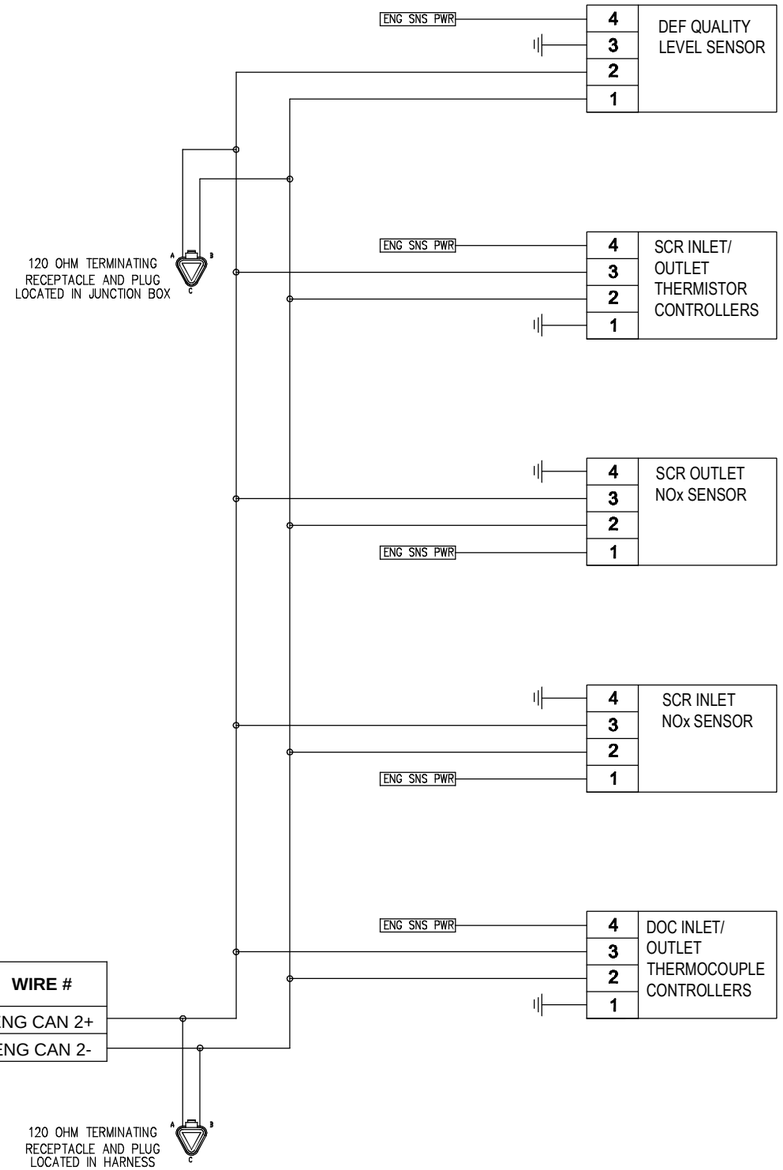
REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: SCHEMATIC– SB–1500E T4F ELECTRICAL

1 REQ'D PER	SB–1500E TIER IV FINAL	SHEET NO	FAB CODE	EFFECTIVE S/N
DRAWN BY: BP	TOTAL WT. (LBS):	9 OF 10	603	SEE NOTES
SCALE: 1=1	DATE: 7/31/13	DWG NO: 252557–01		REV: J

THIS SHEET APPLIES ONLY TO TIER 4F
2500e – T4F CUMMINS QSL9 ENGINE



24-PIN ENGINE PLUG

POSITION	MODULE/FUNCTION	WIRE #
22	ENGINE CAN 2	ENG CAN 2+
23	ENGINE CAN 2	ENG CAN 2-

all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY

ROADTEC

PART NAME: SCHEMATIC– SB–1500E T4F ELECTRICAL

1 REQ'D PER SB–1500E TIER IV FINAL | SHEET NO 10 OF 10 | FAB CODE 603 | EFFECTIVE S/N SEE NOTES

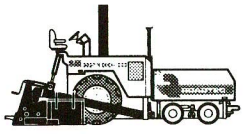
DRAWN BY BP | TOTAL WT. (LBS)

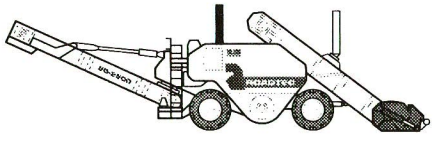
SCALE 1=1 | DATE 7/31/13 | DWG NO 252557–01 | REV. J

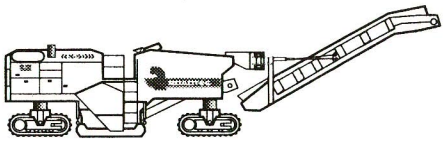
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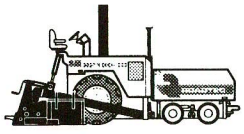
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

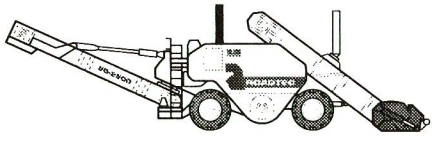
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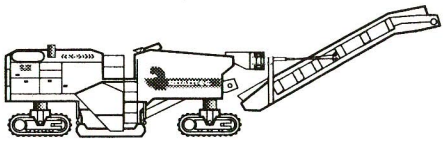
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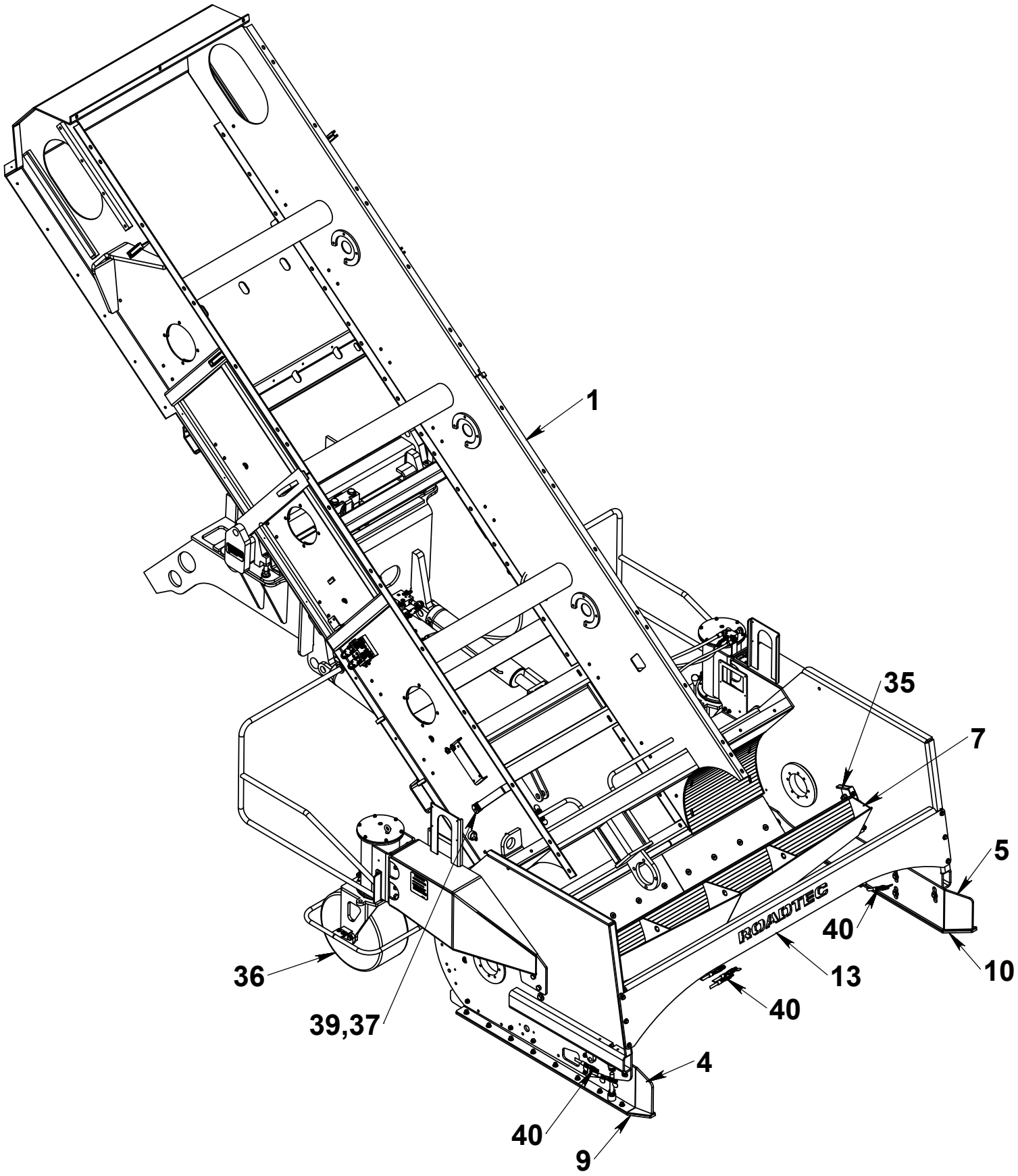
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SECTION 7 : OPTIONAL EQUIPMENT

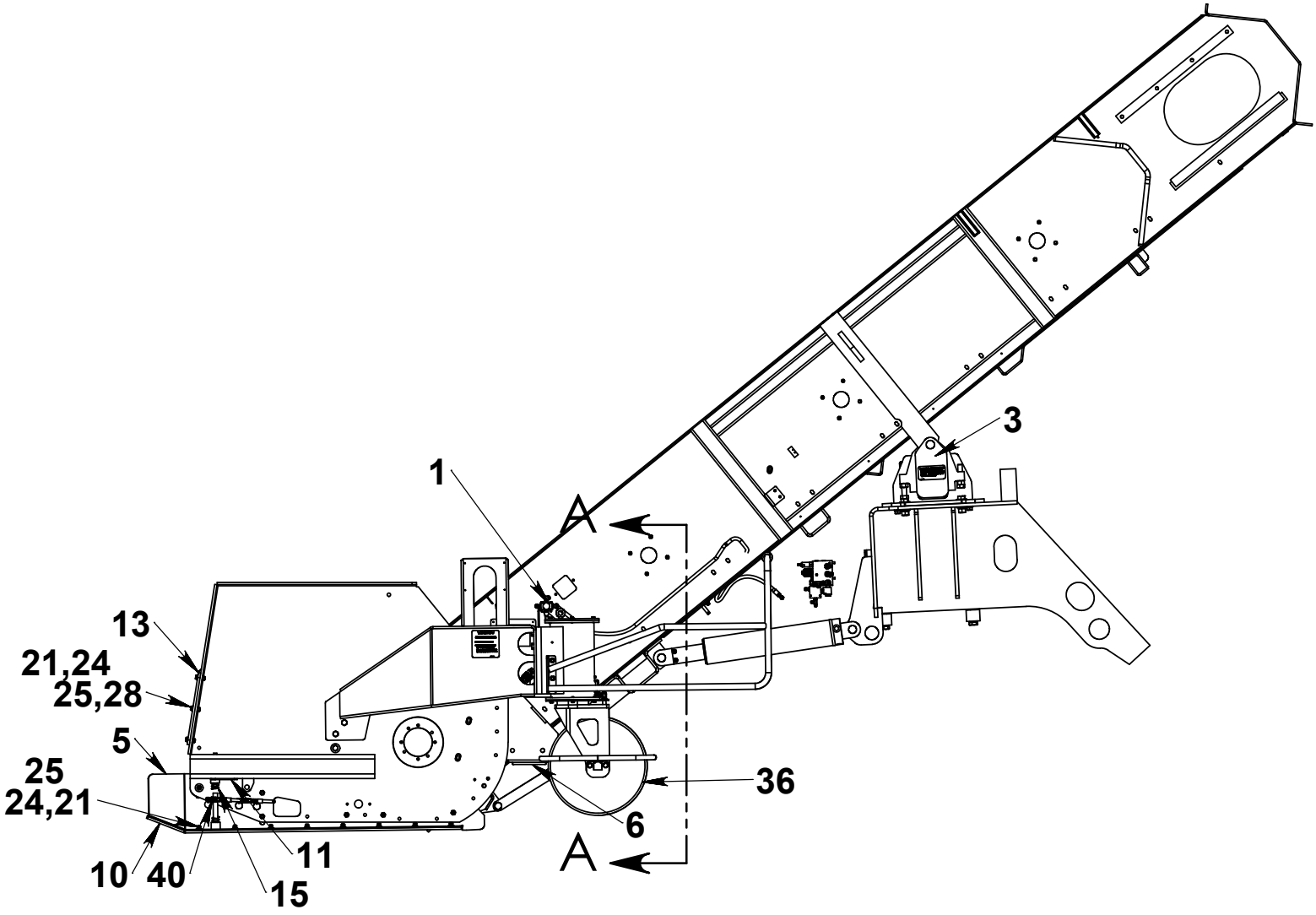
ASSEMBLY	PART NO.	S/N	PAGE NO.
WINDROW	238885-01	2002 & UP	7.1
HYDRAULIC ASSY.	237143-01		7.5
C-1 RAISE/LOWER MANIFOLD MOD.	238950-03		7.6
PRESSURE RED. VALVE	212044-04		7.7
ELECTRICAL	239164-01		7.8
STEERING BOX	239142-01		7.10
R.H. C1 CONTROL BOX	239143-01		7.11
L.H. C1 CONTROL BOX	239144-01		7.15
WINDROW PIVOT	236989-01		7.19
WINDROW CASTER & HYD'S.	238884-04		7.22
WINDROW CASTERS	235403-01		7.23
WINDROW HYDRAULICS	237140-01		7.26
CASTER JACK	216750-01		7.31
QUICK-CONNECT HOSE ASSY.	221713-02		7.33
PREM. PLATFORM LED LIGHTING	236885-01		7.36
24V. HID WORK LIGHTS	245870-01		7.38
BINDICATOR HI/LOW	256902-01		7.41

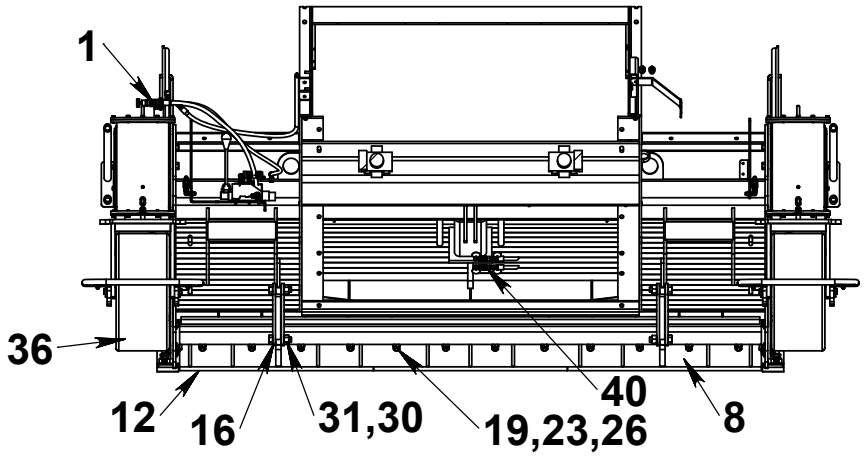
ASSY-WINDROW W/CASTERS W/DUMP 2500E (238885-01)

NEXT PAGE



ASSY-WINDROW W/CASTERS W/DUMP 2500E (238885-01)

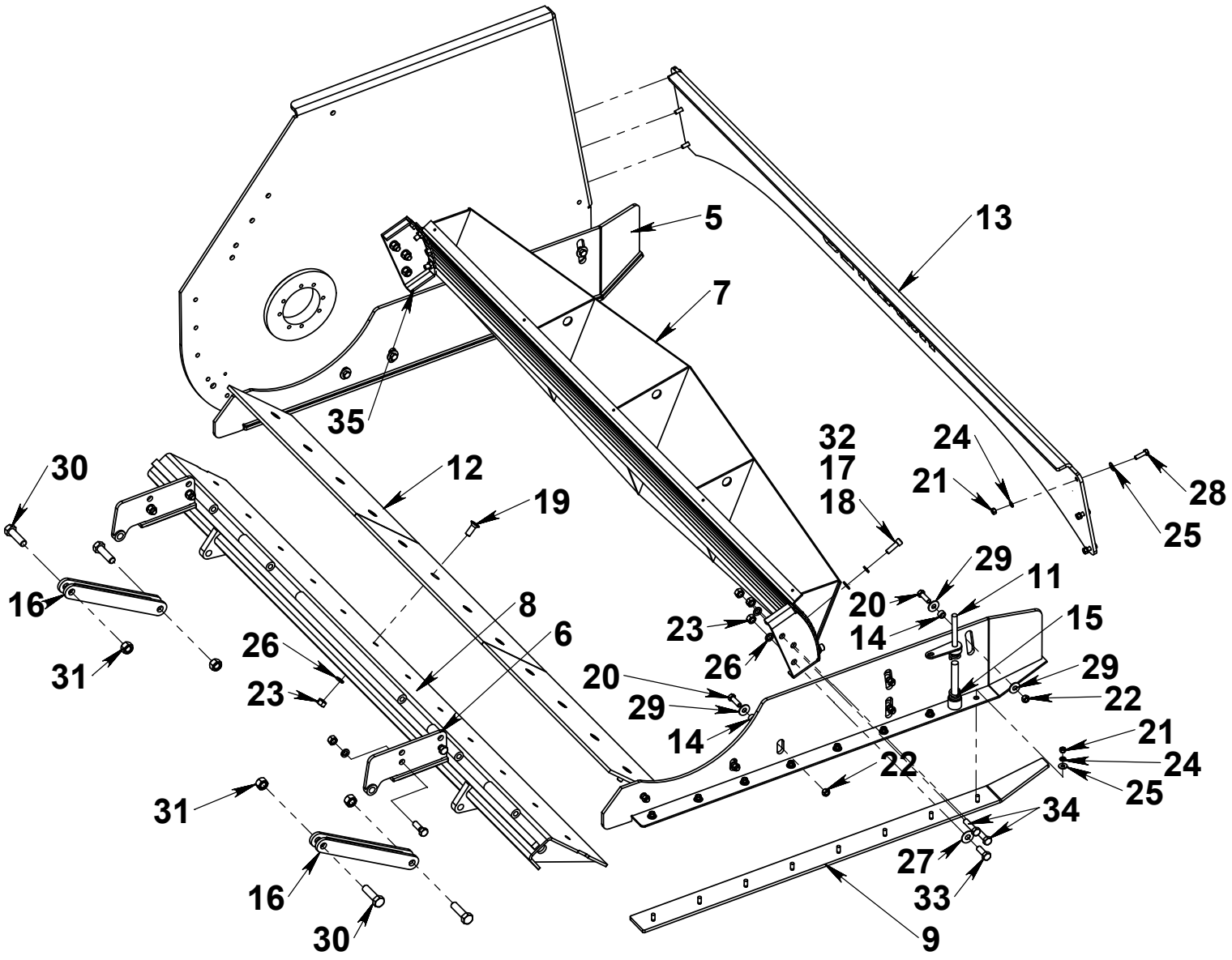




SECTION A-A

PREVIOUS PAGE

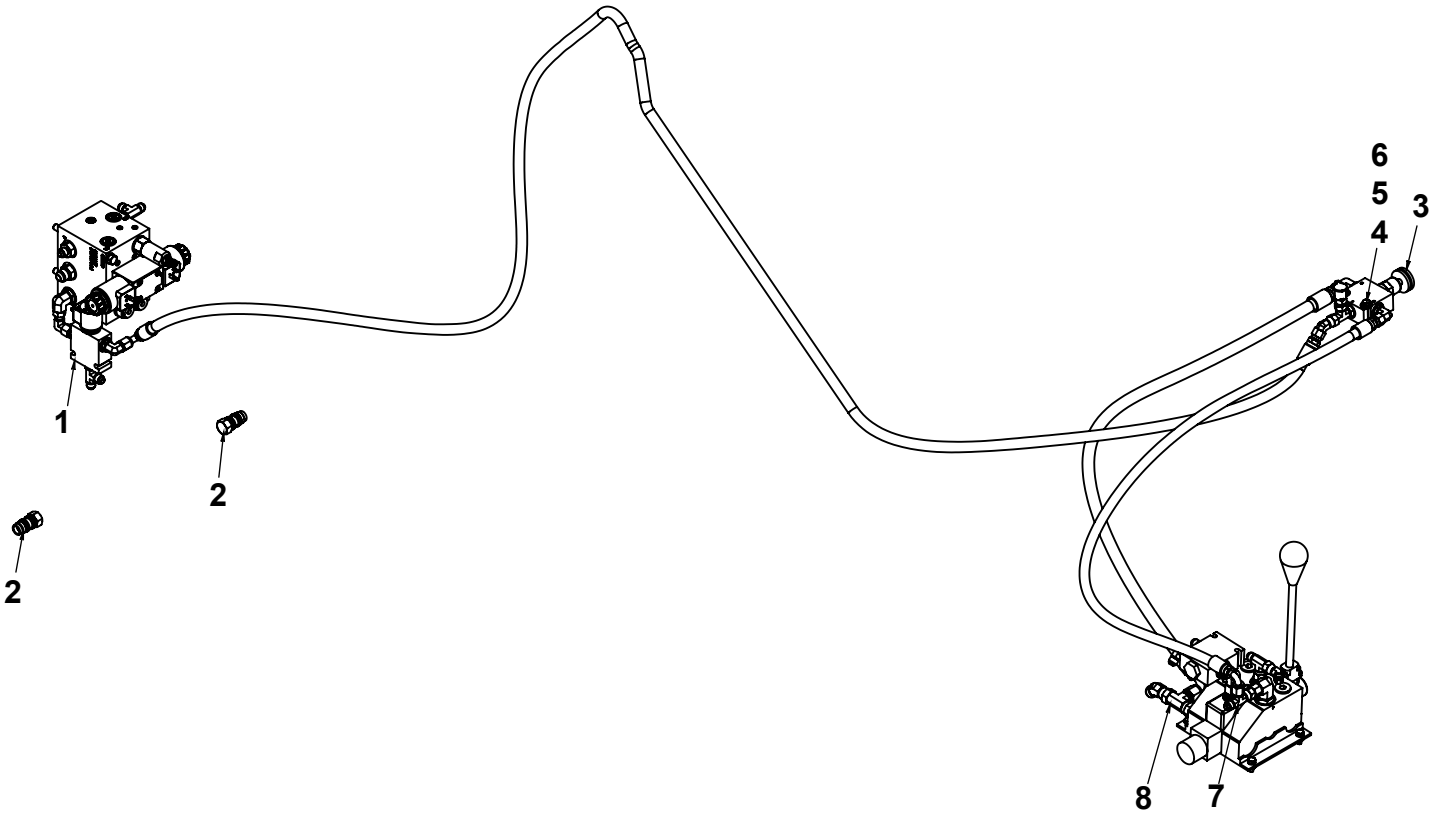
ASSY-WINDROW W/CASTERS W/DUMP 2500E (238885-01)



ASSY-WINDROW W/CASTERS W/DUMP 2500E (238885-01)

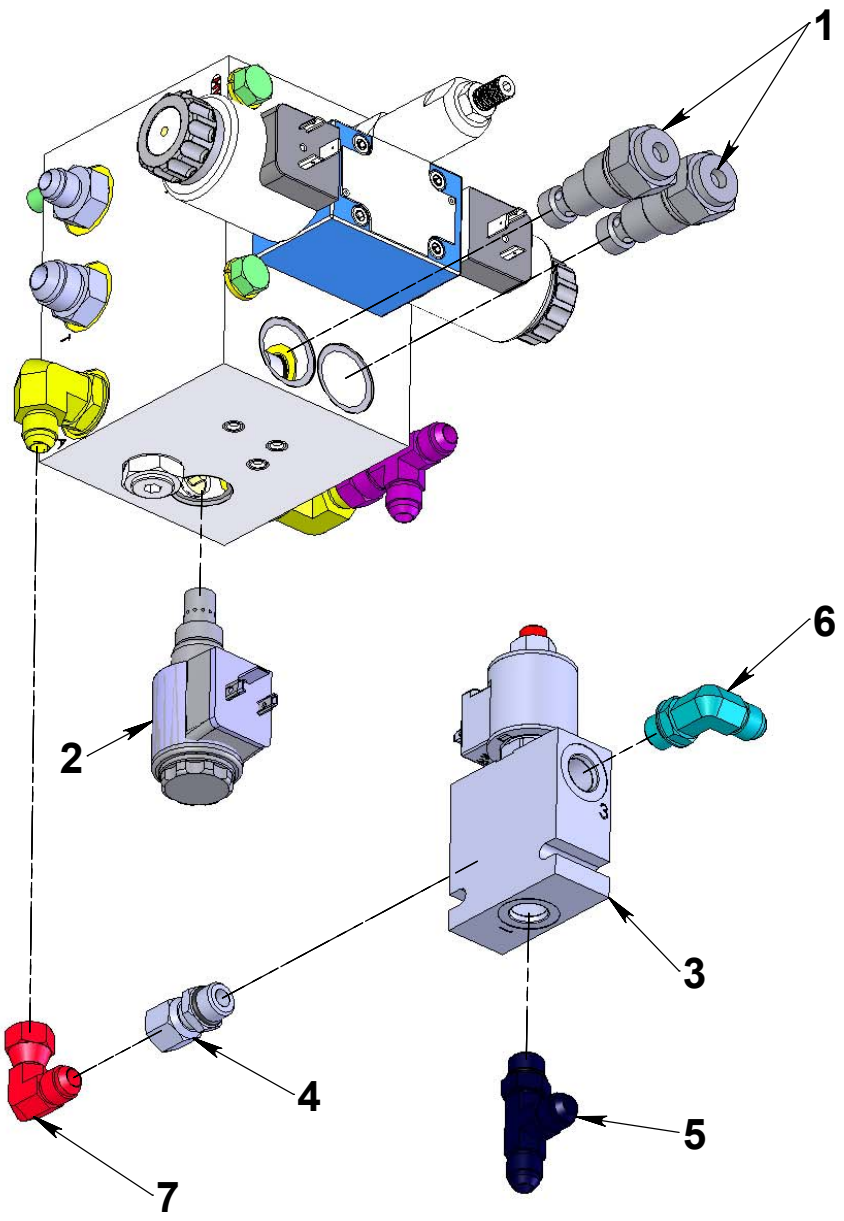
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	237143-01	ASSY-HYD WINDROW W/CSTR &DUMP 2500E	1
2	239164-01	ASSY-ELEC WINDROW W/ CASTERS 2500E	1
3	236989-01	ASSEMBLY-WINDROW PIVOT 2500E T4	1
4	235045-01	WELDMENT-R.H. WINDROW SKI 2500E	1
5	235046-01	WELDMENT-L.H. WINDROW SKI 2500E	1
6	238872-03	WELDMENT-CYLINDER MOUNT 2500E	2
7	202199-01	WELDMENT - WINDROW PLOW	1
8	235430-01	WELDMENT-WINDROW SCRAPER 2500E	1
9	235143-03	WELDMENT-R.H. SKI SHOE 2500E	1
10	235142-03	WELDMENT-L.H. SKI SHOE 2500E	1
11	202907-04	WELDMENT-SKI PIN	2
12	235456-03	DETAIL-SCRAPER BLADE 2500E	3
13	238869-03	DETAIL-SIDESHEET STIFFINER 2500E	1
14	202911-04	DETAIL-SKI SPACER	12
15	98966-04	SPRING * 10D	2
16	235477-03	WLDT-SCRAPER BLADE BRACE 2500E	2
17	84717	WASHER * LOCK 5/8" SPRING STEEL	4
18	84722	SCREW * 5/8"-11 X 1 1/2" SOC.HD.	4
19	136637-04	CSK.BOLT * 3/4-10 X 2	12
20	96041	BOLT ~ HEX 5/8-11 x 2"	12
21	83288	NUT * 1/2"-13 HEX GRADE 8	22
22	92247	NUT * 5/8"-11 LOCK GRADE 8	12
23	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	18
24	83317	WASHER * LOCK 1/2" SPRING STEEL	22
25	83781-04	WASHER * FLAT 1/2" STEEL	22
26	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	18
27	83133	WASHER * FLAT 3/4" STEEL	2
28	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	6
29	85147	WASHER * FLAT 5/8"(USS 1 3/4 OD)	14
30	14S13	BOLT * HEX 1"-8 X 3 1/2"	4
31	83378-04	NUT * LOCK 1"-8 NYLON GRADE 8 (TOP LOCK)	4
32	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	4
33	93071	BOLT ~ HEX 3/4"-10 x 2" LG.	2
34	95930	BOLT * HEX 3/4"-10 X 2 3/4"	4
35	235056-02	WLDT-WINDROW PLOW BRACKET 2500E	2
36	238884-04	ASSY-WINDROW CASTERS & HYD 2500E	1
37	239140-03	DETAIL-RH GREASE LINE BRACKET 25E	1
38	238895-03	DETAIL-GREASE LINE BRACKET 2500E	1
39	96088-04	DECAL * GREASE HERE 1"X 2"	2
40	221713-02	ASSY-WINDROW QUICK CONNECT HOSE	1

SB-2500E WINDROW HYDRAULIC ASSEMBLY
(237143-01)



ITEM #	PART #	DESCRIPTION	QTY.
1	238950-03	MOD-C1 MANIFOLD RAISE/LOWER WR 25E	1
2	123357	FIT * SUN HYDRAULICS CAVITY PLUG	2
3	212044-04	ASSY-PRESS REDUCING VALVE	1
4	83954-04	BOLT * HEX 1/4"-20 X 2"	2
5	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
6	84444	WASHER * FLAT 1/4" STEEL	2
7	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	1
8	84638-04	FIT ~ SWIVEL RUN TEE 8 JIC	1

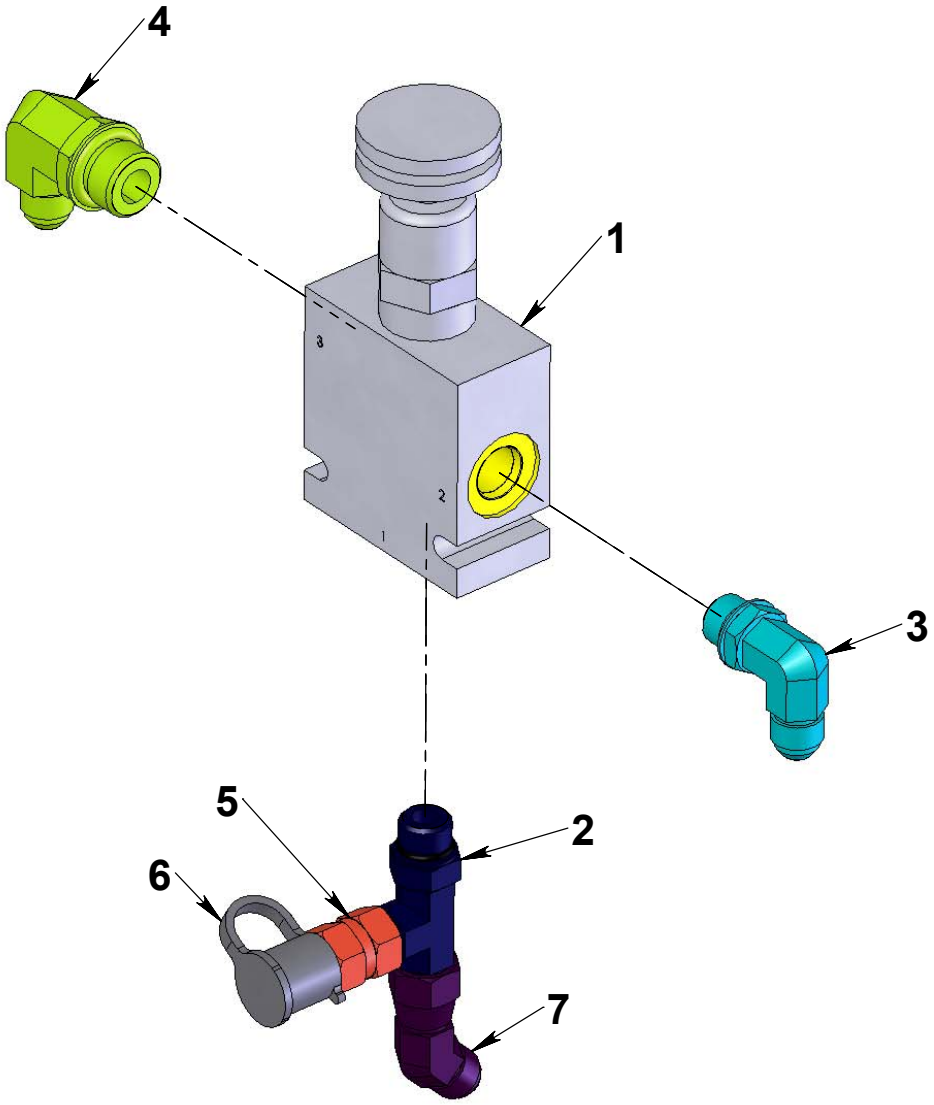
ASSY. - C-1 RAISE/LOWER MANIFOLD SB-2500E WINDROW (238950-03)



MODIFY FROM EXISTING C1 RAISE/LOWER MANIFOLD P/N. 236177-03

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	215722-04	VALVE * PO CHECK HYDAC CARTRIDGE	2
2	215723-04	VALVE * SOLENOID HYDAC CARTRIDGE	1
3	232461-04	VALVE ~ SOLENOID 3 WAY, 2 POS	1
4	135923-04	FIT * 6 SAE MALE - 6 JIC FEM SW.STR	1
5	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
6	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	1
7	83953-04	FIT ~ FM SWIVEL ELBOW 6 JIC 90 DEG.	1
8	237202-03-C3	COIL - 24VDC DIN	1

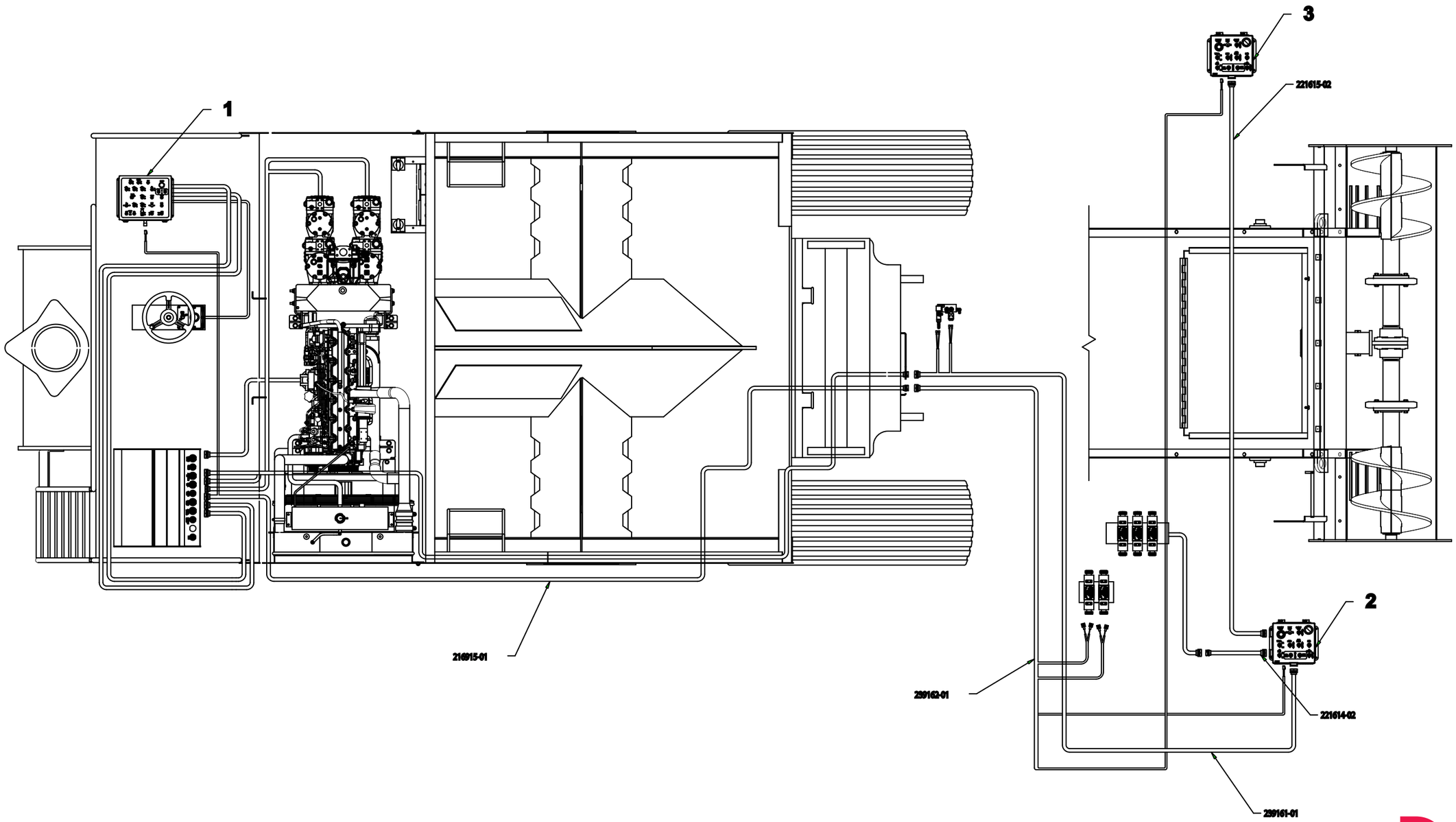
ASSY-PRESS REDUCING VALVE (212044-04)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	202901-04	VALVE * PRESSURE REDUCING 200-800	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
3	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	1
4	83461-04	FIT * ELBOW 8 JICM-6 SAE 90 STEEL	1
5	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
6	85949-04	FIT ~ TEST PORT QD CAP 3/8	1
7	90768-04	FIT * CONNECTOR 6 JIC 45 DEG. SW.	1

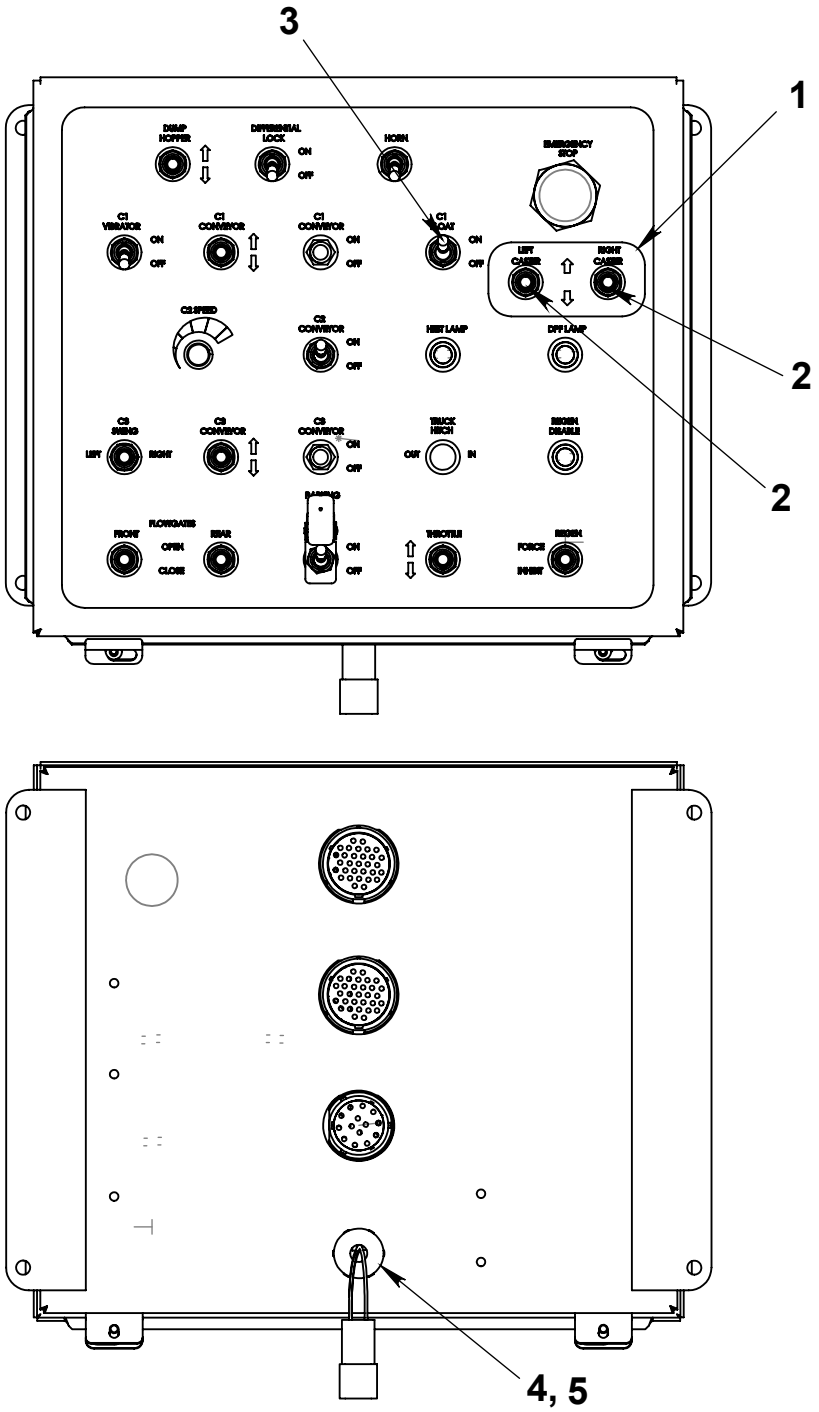
SB-2500E WINDROW ELECTRICAL ASSY.
(239164-01)

ITEM	PART #	DESCRIPTION	QTY
1	239142-01	STEERING BOX WINDROW CASTER	1
2	239143-01	RIGHT HAND C1 CONTROL BOX WINDROW CASTER	1
3	239144-01	LEFT HAND C1 CONTROL BOX WINDROW CASTER	1
4	239163-04	WIRE HARNESS KIT ~ WINDROW CASTER	1
5	221613-04	ELECTRICAL SCHEMATIC ~ WINDROW CASTER	1



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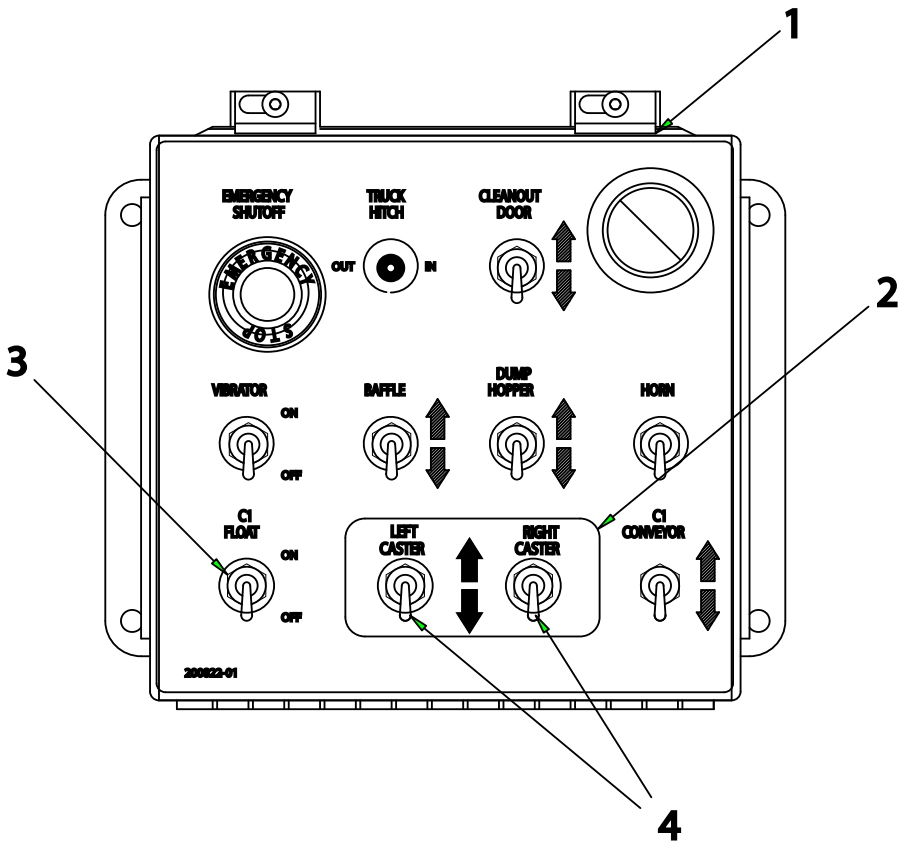
ASSY.-WINDROW STEERING BOX
(239142-01)

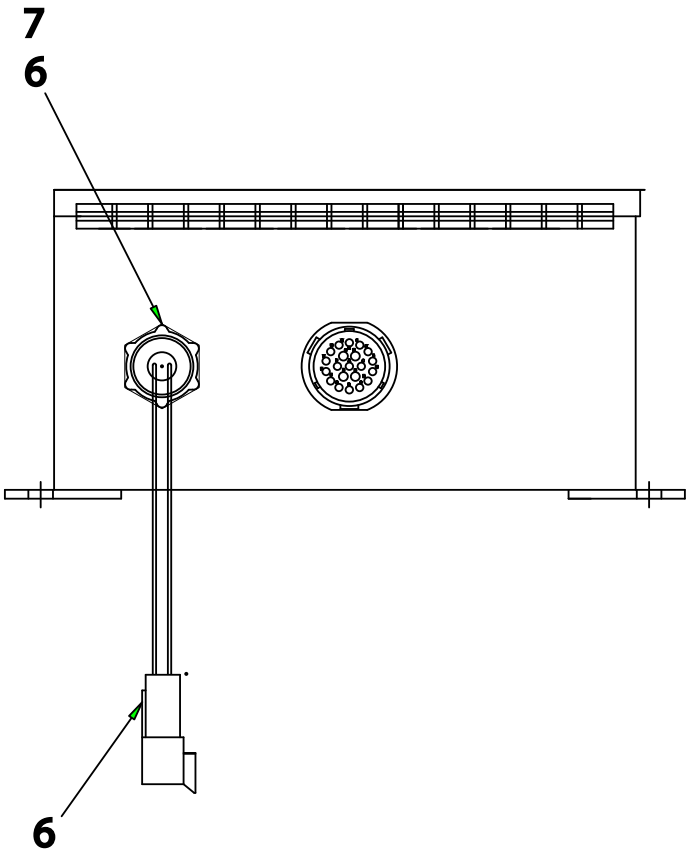


ITEM #	PART #	DESCRIPTION	QTY.
1	239156-04	DATA PLATE ~ WINDROW CASTER OPTION	1
2	139471	SWITCH * TOGGLE MOMENTARY SPRING SPDT	2
3	13E68	SWITCH * TOGGLE SP ST ON/OFF	1
4	80645-04	ELEC * CGB 193 CONNECTOR 1/2"	1
5	80643-04	NUT * 1/2" CONDUIT LOCKING	1

R.H. C1 CONTROL BOX (WINDROW)
(239143-01)

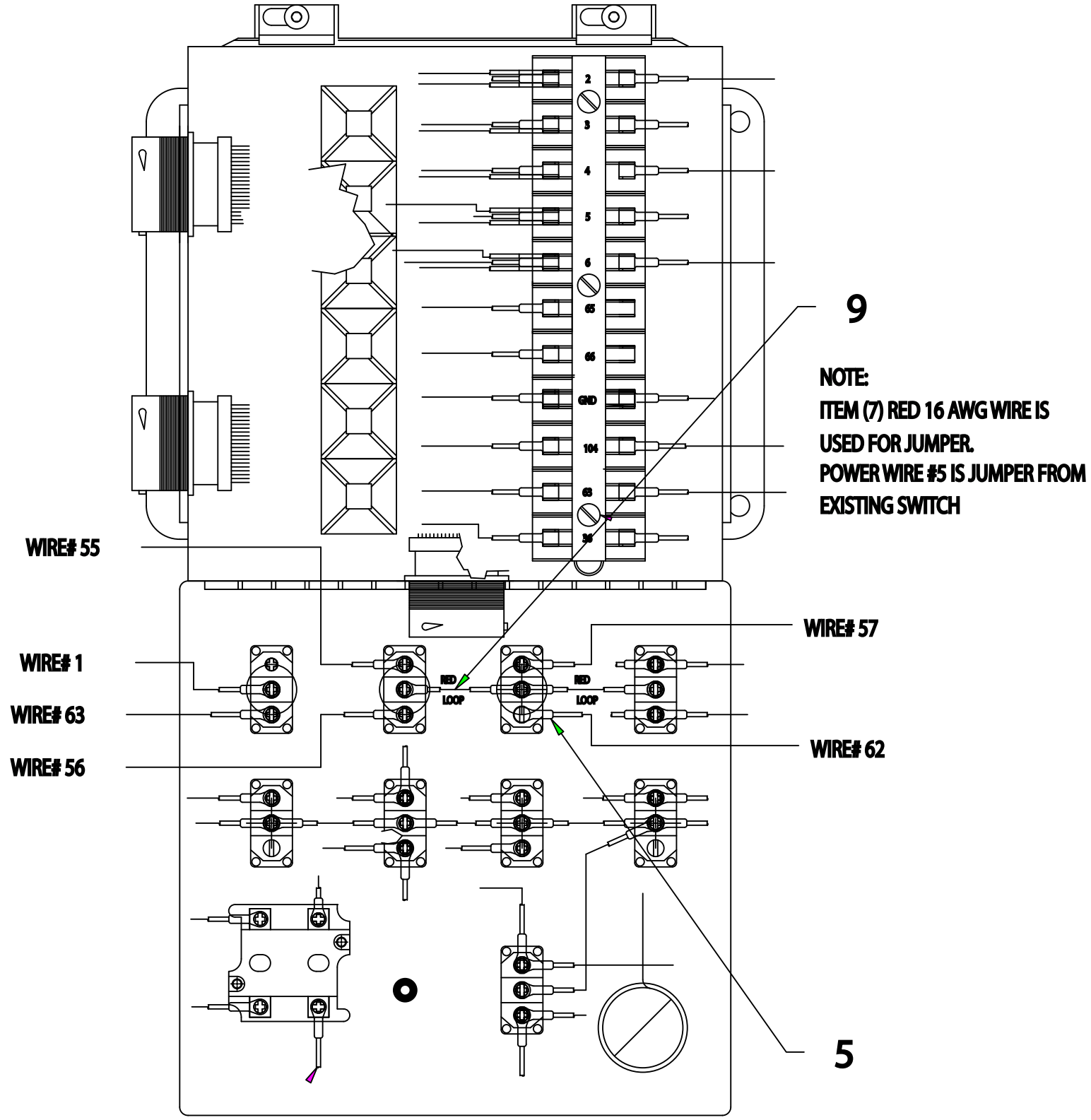
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R.H. C1 CONTROL BOX (WINDROW)
(239143-01)

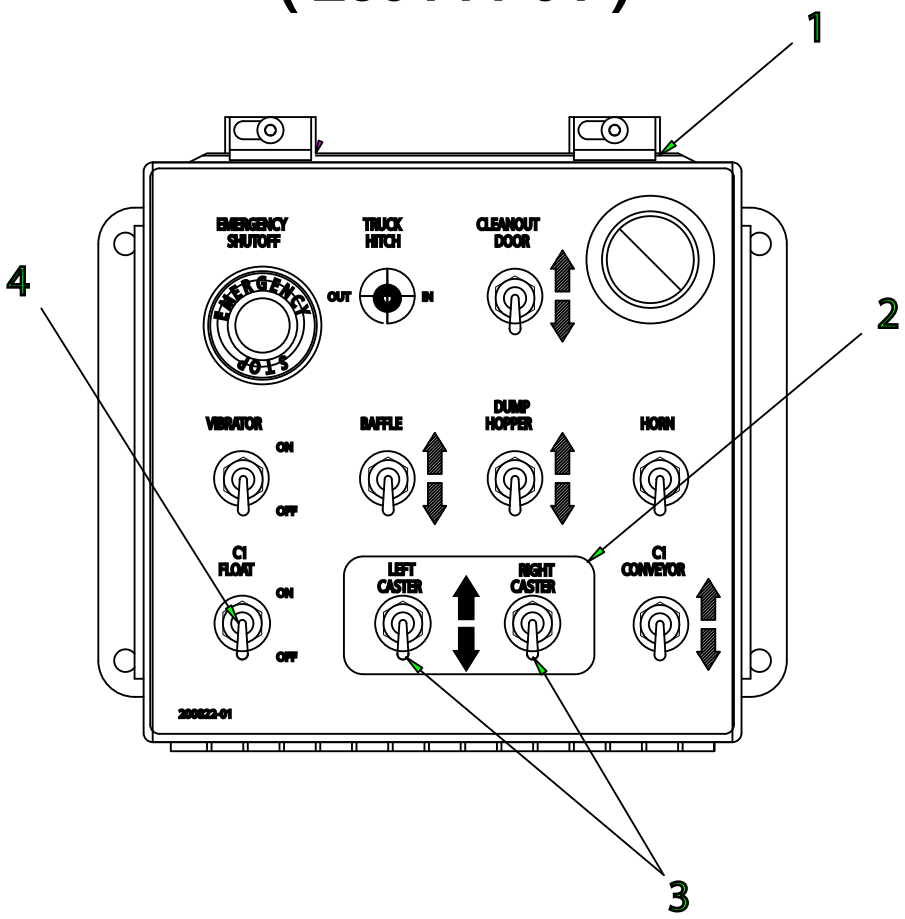


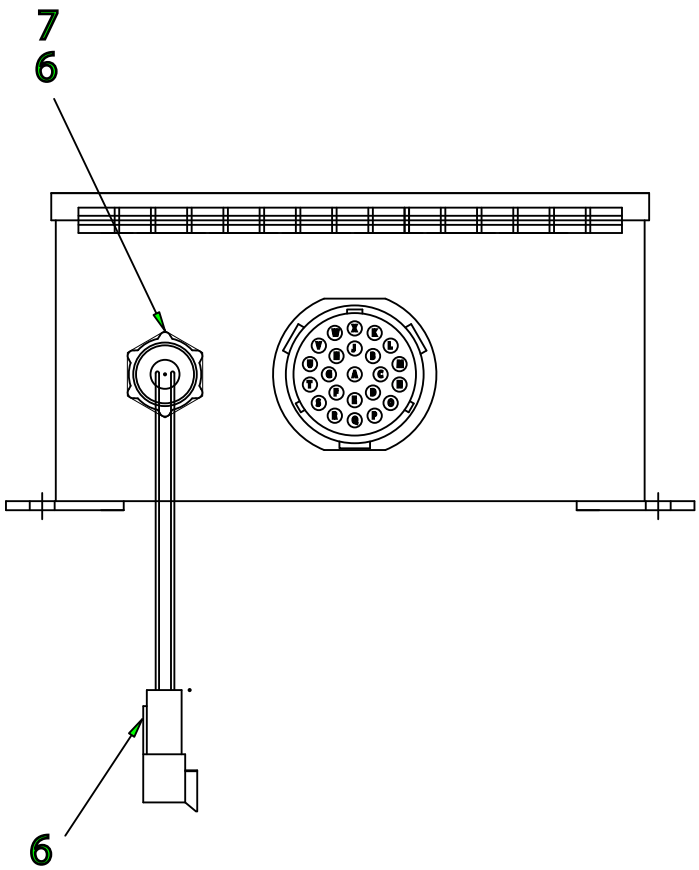
R.H. C1 CONTROL BOX (WINDROW)
(239143-01)

ITEM	IDENT	DESCRIPTION	QTY
1	238331-01	C1 CONTROL BOX RIGHT HAND	REF
2	239156-04	DATA PLATE ~ WINDROW CASTER OPTION	1
3	13E68	SWITCH ~ TOGGLE SP ST ON/OFF	1
4	139471	SWITCH ~ TOGGLE	2
5	93253	RING TERMINAL 16 AWG	7
6	80645-04	CGB 1/2" STRIGHT 193	1
7	80643-04	LOCK NUT 1/2"	1
8	216910-03	PIG TAIL ~ WINDROW CASTER OPTIONS	REF
9	95578R	WIRE ~ 16 AWG RED	12"

L.H. C1 CONTROL BOX ASSEMBLY
(239144-01)

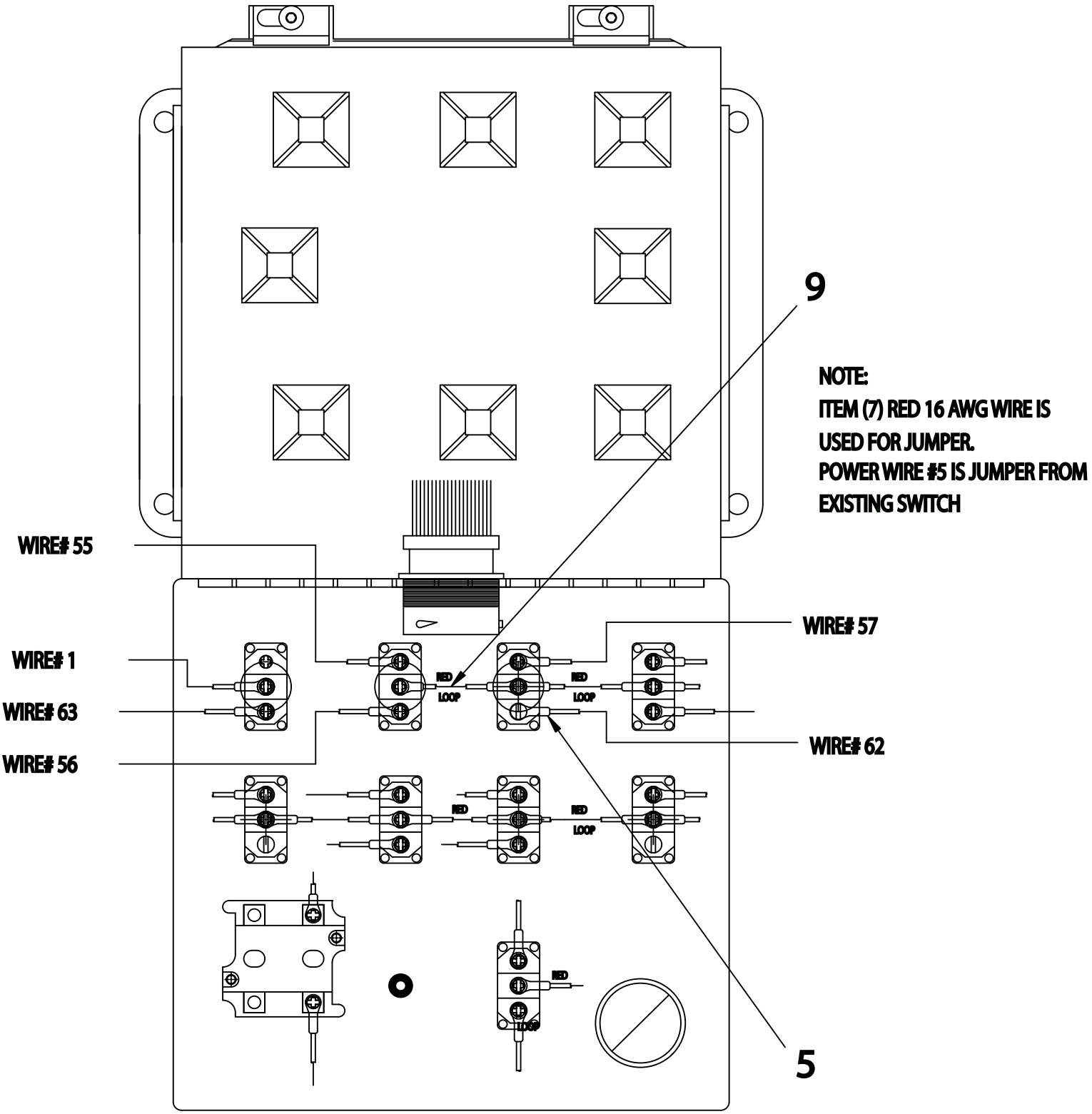
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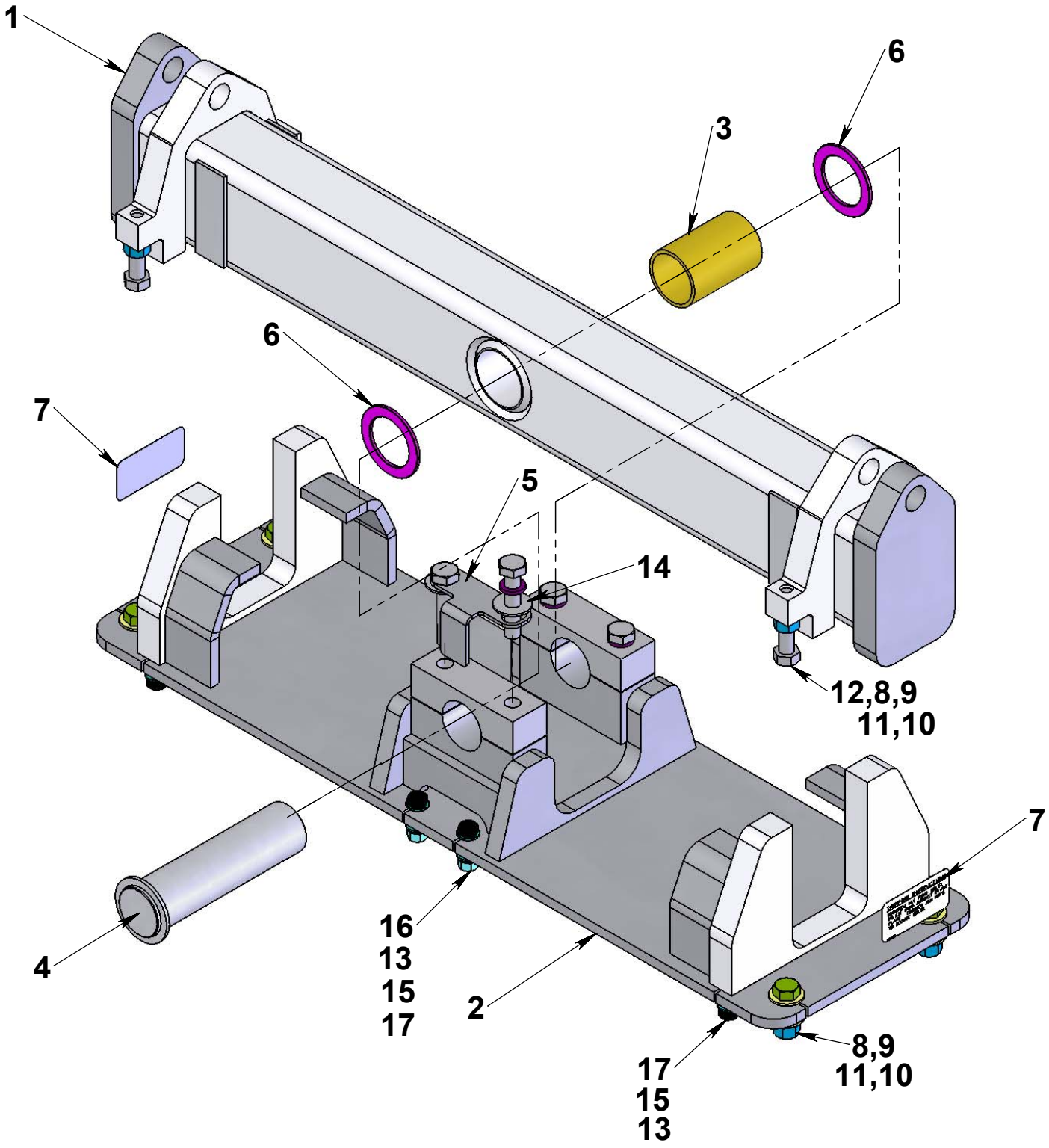
L.H. C1 CONTROL BOX ASSEMBLY
(239144-01)



L.H. C1 CONTROL BOX (WINDROW)
(239144-01)

	ITEM	IDENT	DESCRIPTION	QTY
	1	238332-01	LEFT HAND C1 CONTROL BOX ASSY	REF
	2	239156-04	DATA PLATE ~ WINDROW CASTER OPTION	1
	3	139471	SWITCH ~ TOGGLE	2
	4	13E68	SWITCH ~ TOGGLE SP ST ON/OFF	1
	5	93253	RING TERMINAL 16 AWG	7
	6	80645-04	CGB 1/2" STRIGHT 193	1
	7	80643-04	LOCK NUT 1/2"	1
	8	216910-03	PIG TAIL ~ WINDROW CASTER OPTION	REF
	9	95578R	WIRE ~ 16 AWG RED	12"

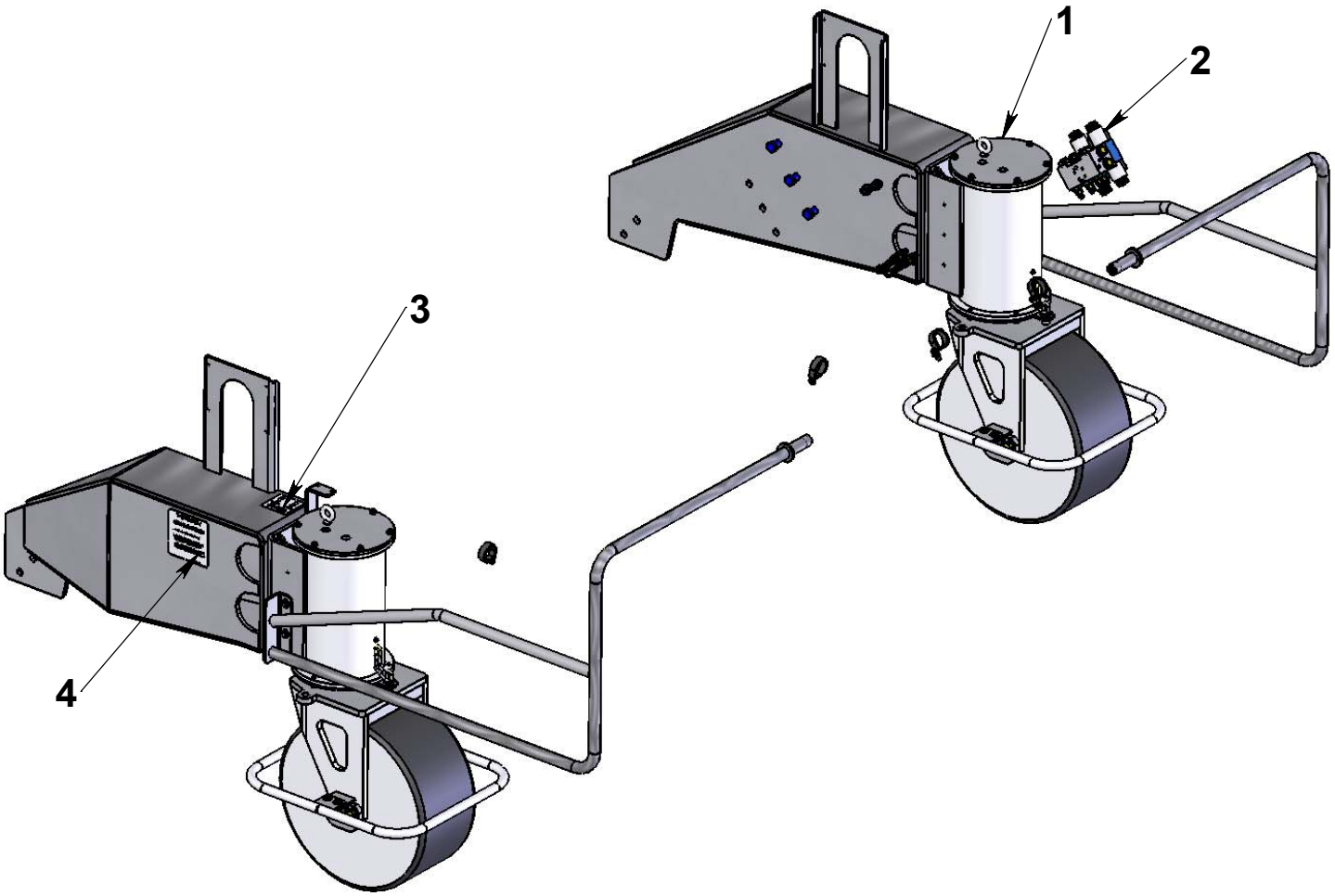
ASSEMBLY-WINDROW PIVOT 2500E T4
(236989-01)



ASSEMBLY-WINDROW PIVOT 2500E T4 (236989-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	236991-01	WELDMENT-WINDROW PIVOT TUBE 2500E	1
2	238894-01	WLDT-C1 WINDROW PIVOT BASE 2500E	1
3	200682	BUSHING * DURALON	1
4	200854-03	WLDT/MACH- SWIVEL PIVOT PIN	1
5	147427-03	PIVOT PIN RETAINER	1
6	214527-04	WASHER * THRUST	2
7	200932-03	DECAL* WINDROW SHIPPING	2
8	98453	NUT * HEX 1"-8 UNC GRADE 8	8
9	97316	BOLT * HEX 1"-8 X 3"	4
10	10S89	WASHER ~ FLAT 1" A325	8
11	83427	WASHER ~ LOCK 1" SPRING STEEL	4
12	96511	BOLT * HEX 1"-8 X 4 1/2" FULL THR.	4
13	95937	WASHER * FLAT 3/4" HARD	11
14	83376-04	FLAT WASHER * 1" STEEL	2
15	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	7
16	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	4
17	95930	BOLT * HEX 3/4"-10 X 2 3/4"	7

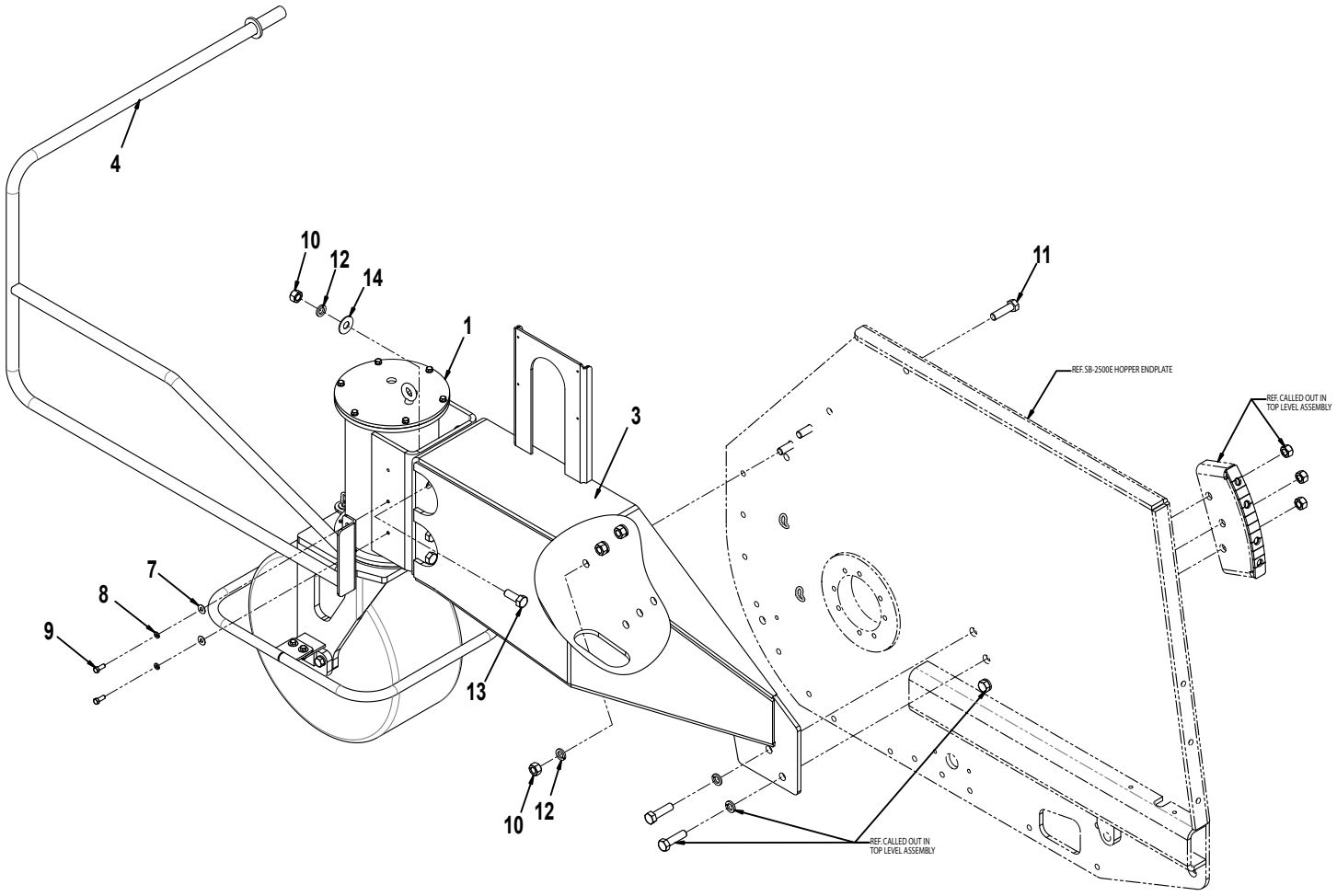
ASSY-WINDROW CASTERS & HYD 2500E (238884-04)



ITEM #	PART #	DESCRIPTION	Default/ QTY
1	235403-01	ASSY-WINDROW CASTERS 2500E T4	1
2	237140-01	ASSY-HYDRAULIC, WINDROW JACK 2500E	1
3	202958-03	DECAL * PICK-UP HEAD DOWN PRESS	1
4	202957-03	DECAL * WINDROW OPERATION	2

SB-2500E WINDROW CASTERS ASSY.
(235403-01)

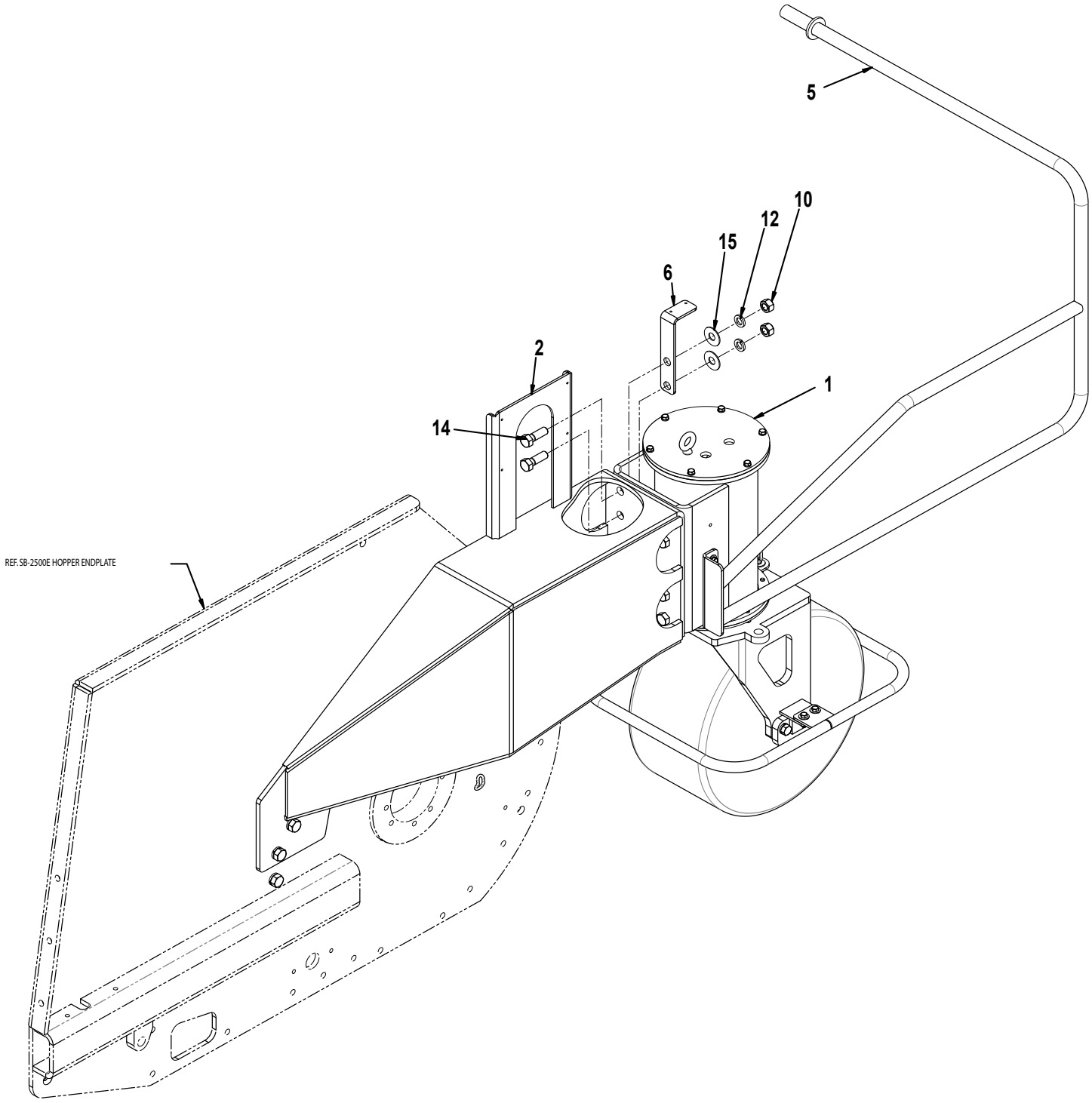
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R.H. ASSEMBLY

PREVIOUS PAGE

SB-2500E WINDROW CASTERS ASSY.
(235403-01)



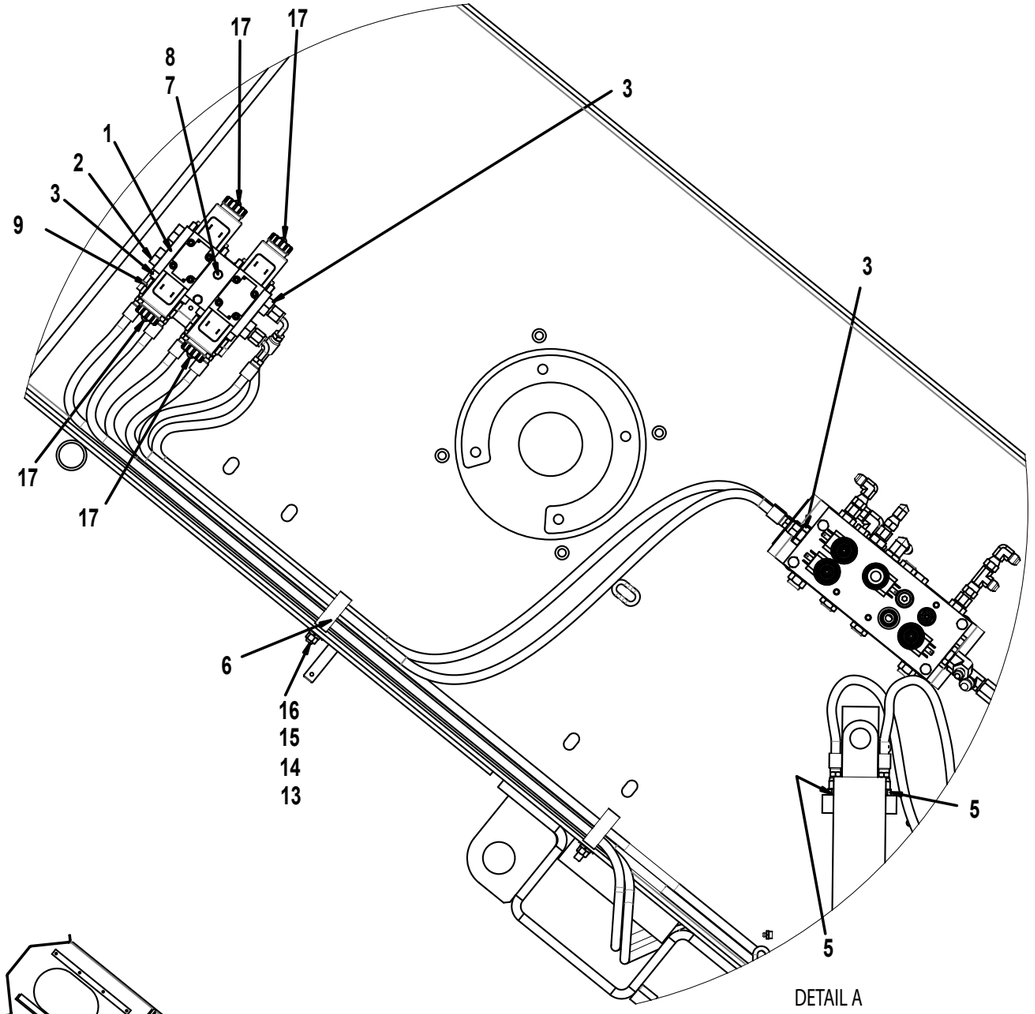
SB-2500E WINDROW CASTERS ASSY.
(235403-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	216750-01	ASSY-CASTER JACK	2
2	216752-01	WELDMENT-JACK SUPPORT, LEFT	1
3	216708-01	WELDMENT-JACK SUPPORT RIGHT	1
4	235480-01	WLDT-RH WINDROW GUARDRAIL 2500E	1
5	235481-01	WLDT-LH WINDROW GUARDRAIL 2500E	1
6	224916-03	DETAIL-FLOAT CONTROL BRACKET	1
7	83757	WASHER ~ FLAT 3/8 STEEL	4
8	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
9	84332	BOLT * HEX 3/8"-16 X 1"	4
10	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	22
11	95930	BOLT * HEX 3/4"-10 X 2 3/4"	6
12	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	22
13	93071	BOLT ~ HEX 3/4"-10 x 2" LG.	14
14	93189	BOLT * HEX 3/4"-10 X 2 1/4"	2
15	83133	WASHER * FLAT 3/4" STEEL	16

SB-2500E WINDROW JACK HYDRAULIC ASSY.
(237140-01)

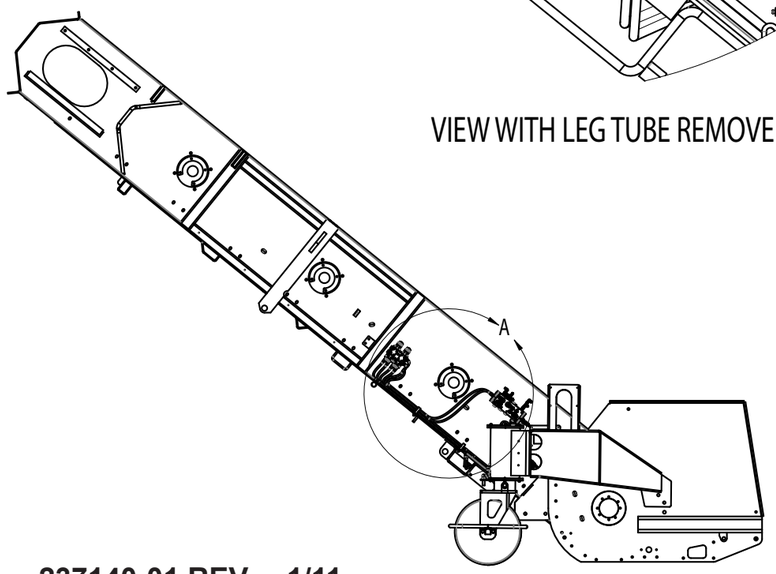
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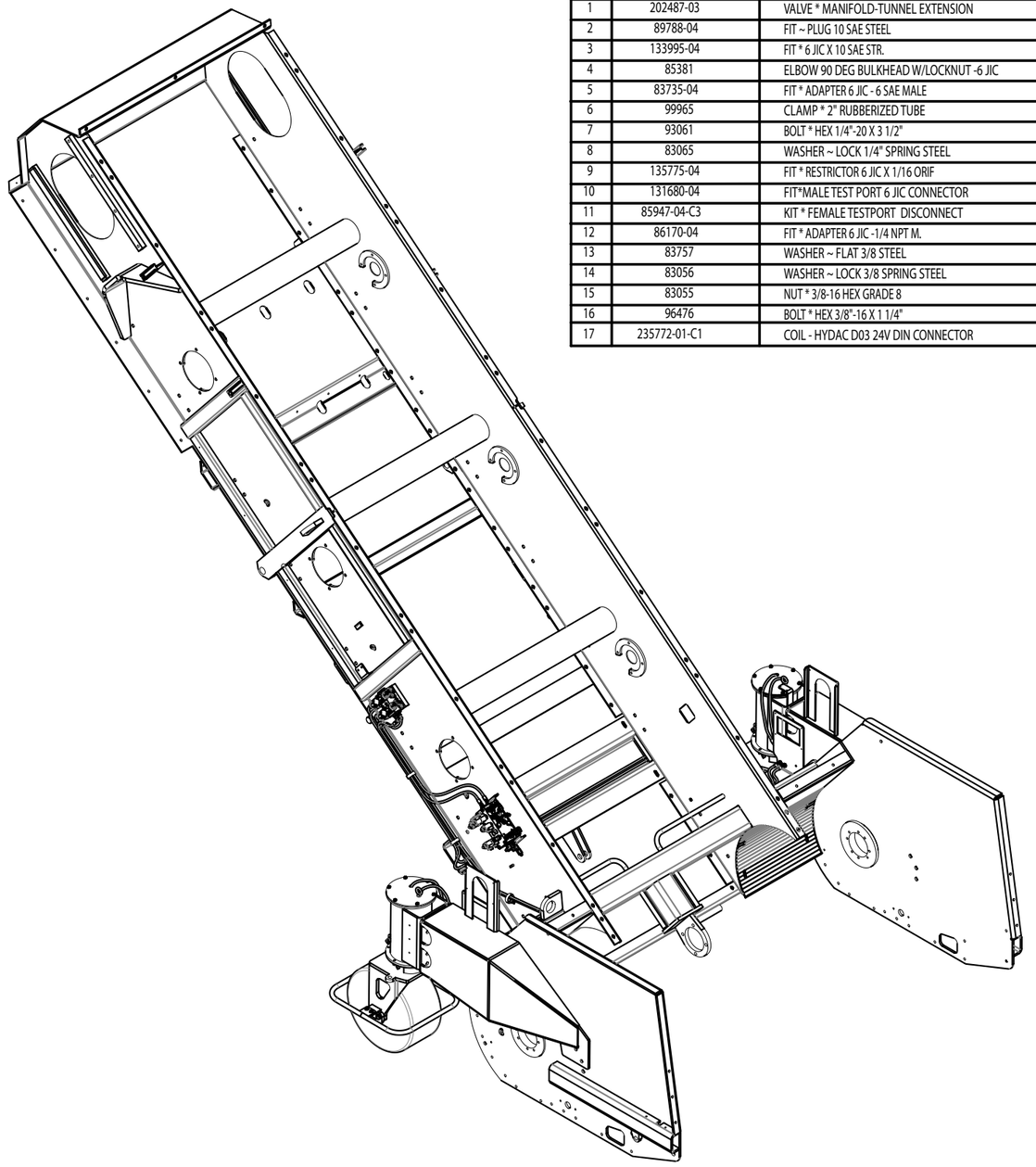
ITEM #	PART #	DESCRIPTION	QTY.
1	202487-03	VALVE * MANIFOLD-TUNNEL EXTENSION	1
2	89788-04	FIT ~ PLUG 10 SAE STEEL	2
3	133995-04	FIT * 6 JIC X 10 SAE STR.	8
4	85381	ELBOW 90 DEG BULKHEAD W/LOCKNUT -6 JIC	4
5	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	4
6	99965	CLAMP * 2" RUBBERIZED TUBE	4
7	93061	BOLT * HEX 1/4"-20 X 3 1/2"	2
8	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
9	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	4
10	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	4
11	85947-04-C3	KIT * FEMALE TESTPORT DISCONNECT	4
12	86170-04	FIT * ADAPTER 6 JIC -1/4 NPT M.	4
13	83757	WASHER ~ FLAT 3/8 STEEL	2
14	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
15	83055	NUT * 3/8-16 HEX GRADE 8	2
16	96476	BOLT * HEX 3/8"-16 X 1 1/4"	2
17	235772-01-C1	COIL - HYDAC D03 24V DIN CONNECTOR	4



DETAIL A

VIEW WITH LEG TUBE REMOVED FOR CLARITY

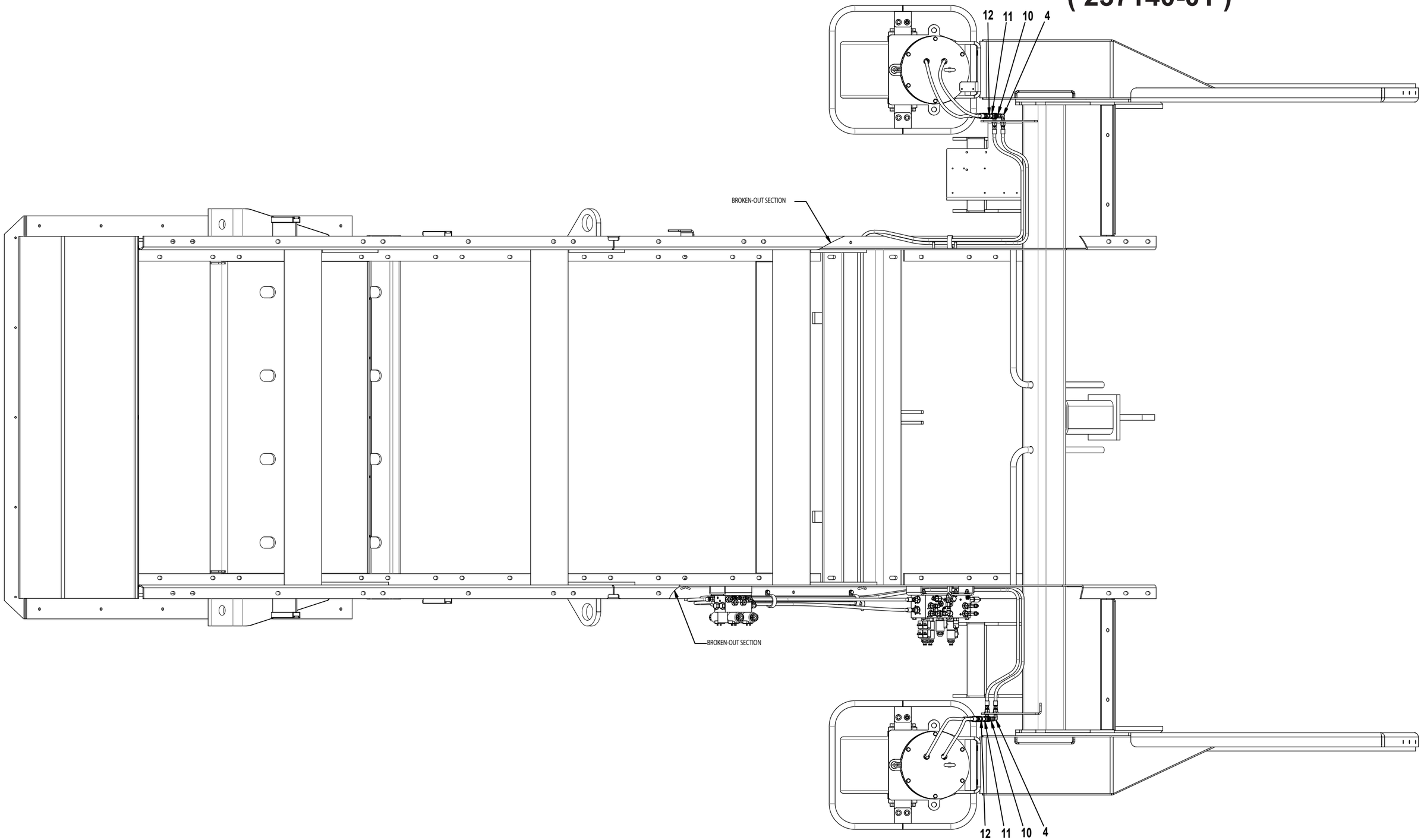




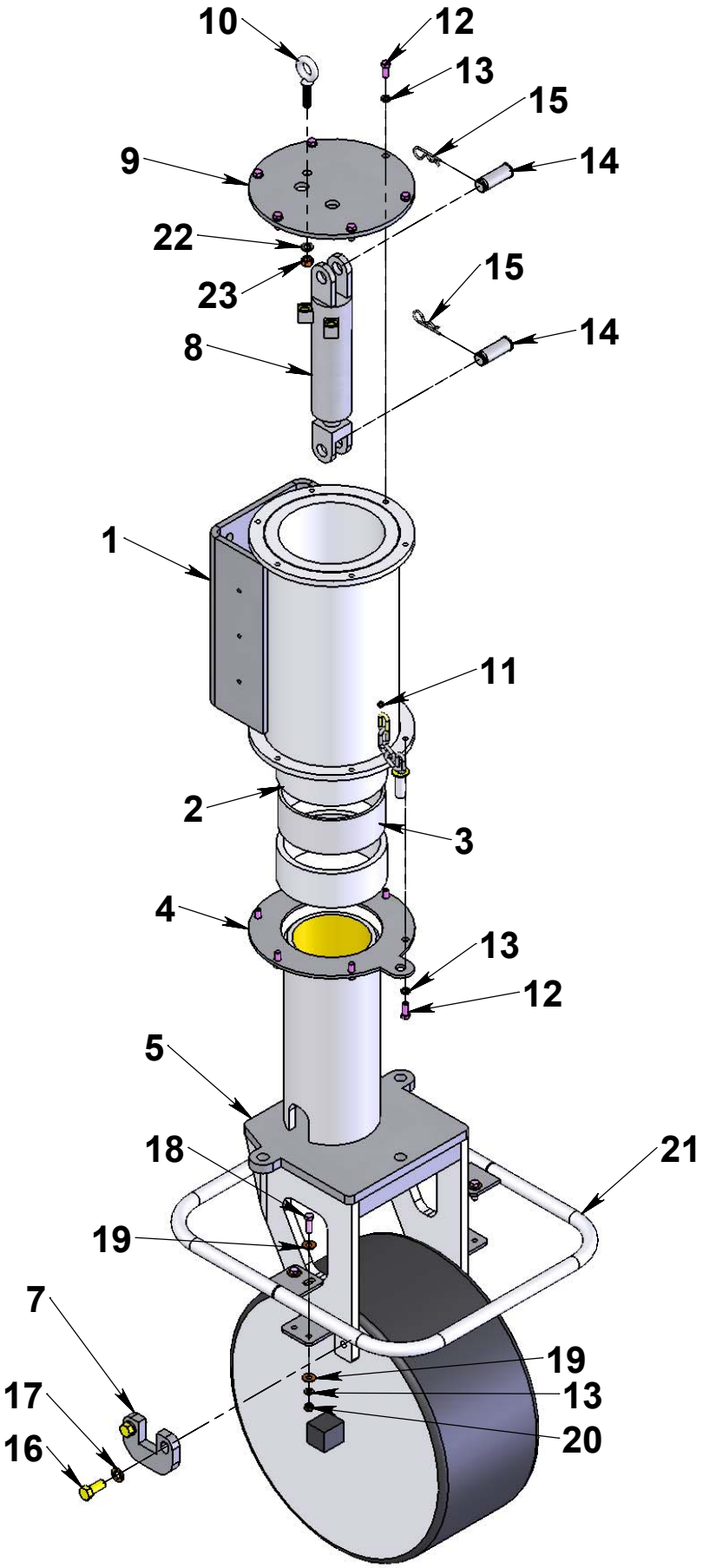
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PREVIOUS PAGE

SB-2500E WINDROW JACK HYDRAULIC ASSY.
(237140-01)



ASSY-CASTER JACK
(216750-01)

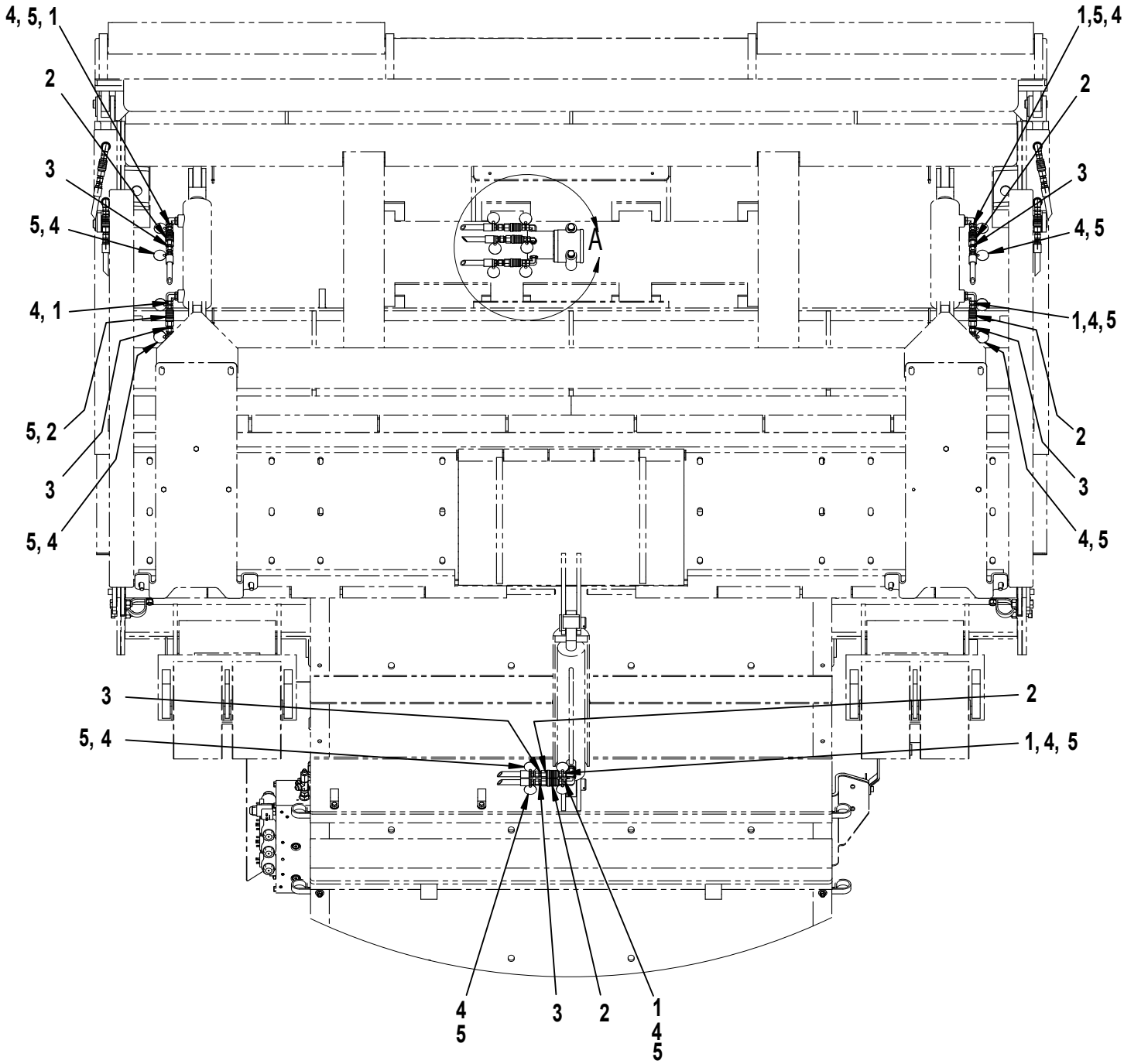


ASSY-CASTER JACK
(216750-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	135080-01	JACK TUBE WELDMENT	1
2	232229-03	JACK TUBE BUSHING	2
3	140205-03	DETAIL-WINDROW JACK TUBE SPACER	1
4	135082-03	BEARING RETAINER RING	1
5	135079-01	WINDROW CASTER YOKE WELDMENT	1
6	135078-04	WINDROW CASTOR WHEEL * 10 X 22	1
7	135075-04	DETAIL-WINDROW CASTER WHEEL KEEPER	2
8	135016-03	CYL * 2 1/2" BORE X 5" STROKE	1
9	135081-01	TOP PLATE WELDMENT	1
10	135095-04	EYEBOLT * 1/2-13 X 2"LG	1
11	83416	GREASE * NIPPLE 1/8" NPT	1
12	84332	BOLT * HEX 3/8"-16 X 1"	12
13	83056	WASHER ~ LOCK 3/8 SPRING STEEL	16
14	89032-04	CLEVIS PIN	2
15	07198	PIN * HITCH 2 5/8" SPRING TYPE	2
16	84778	HEX BOLT * 5/8-11 X 1 1/2 LG	4
17	84717	WASHER * LOCK 5/8" SPRING STEEL	4
18	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
19	83757	WASHER ~ FLAT 3/8 STEEL	8
20	83055	NUT * 3/8-16 HEX GRADE 8	4
21	137177-01	WINDROW CASTER GUARD WELDMENT	1
22	83317	WASHER * LOCK 1/2" SPRING STEEL	1
23	83288	NUT * 1/2"-13 HEX GRADE 8	1

SB-2500E WINDROW QUICK-CONNECT HOSE ASSY.
(221713-02)

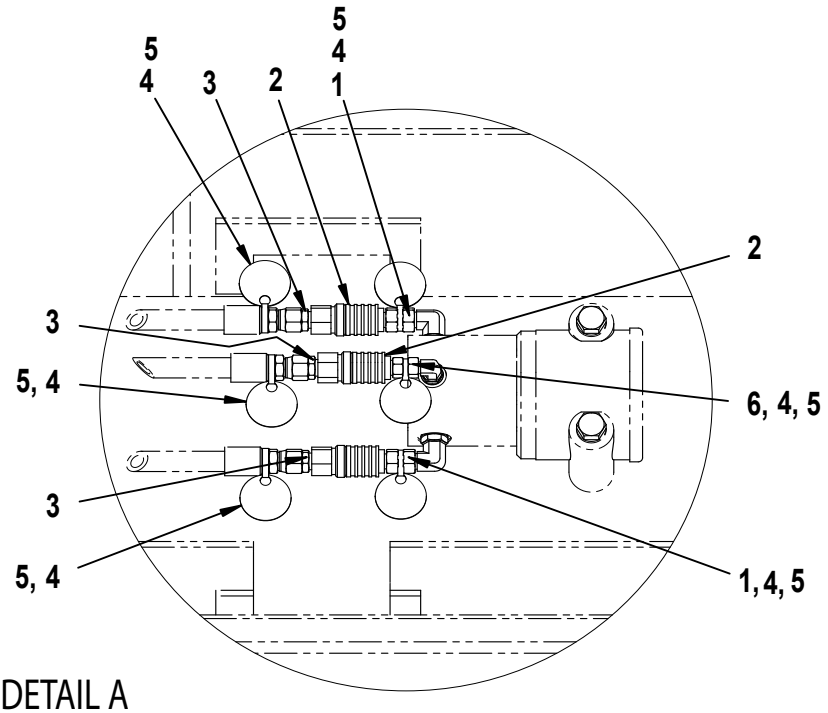
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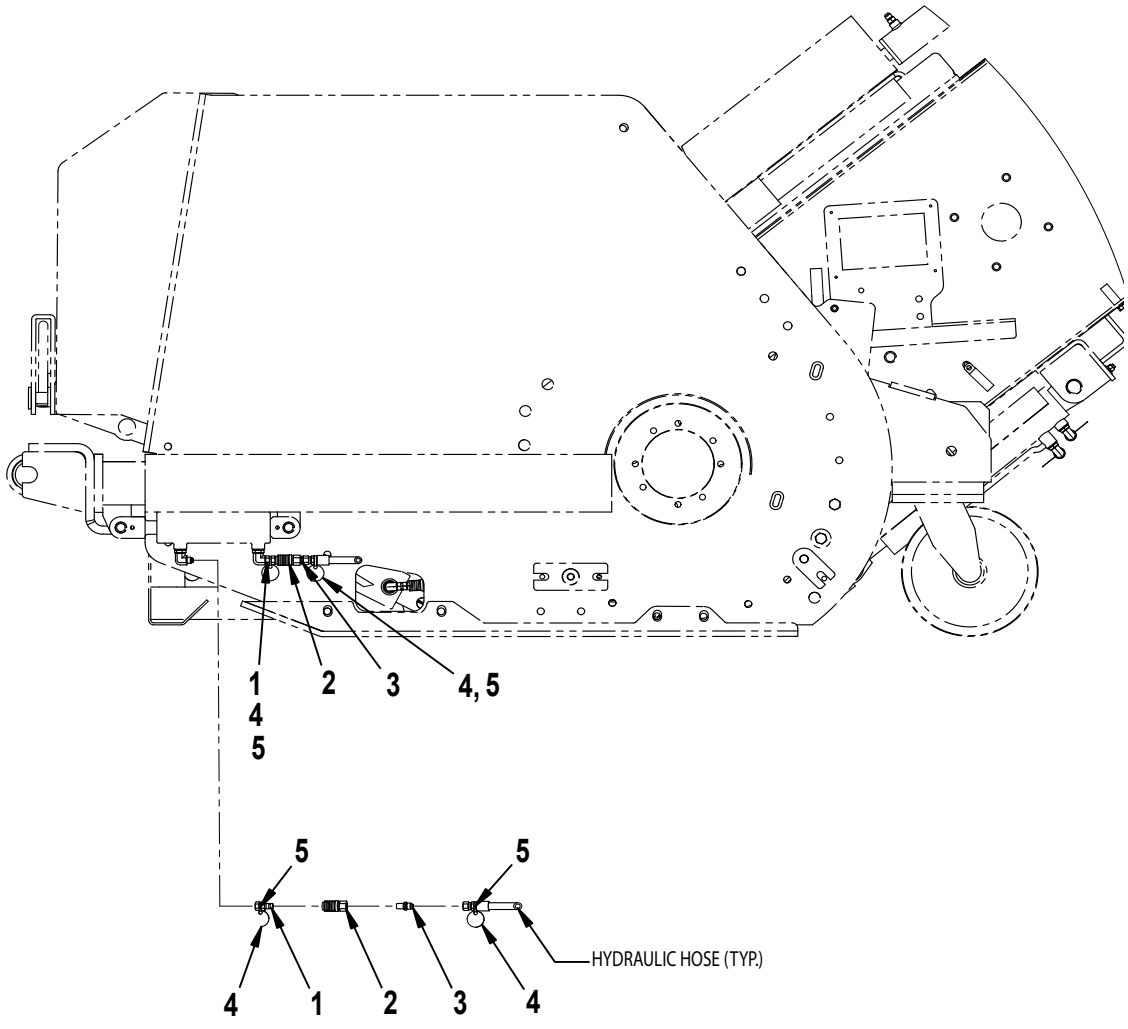
BOTTOM VIEW

SB-2500E WINDROW QUICK-CONNECT HOSE ASSY. (221713-02)

PREVIOUS PAGE



DETAIL A



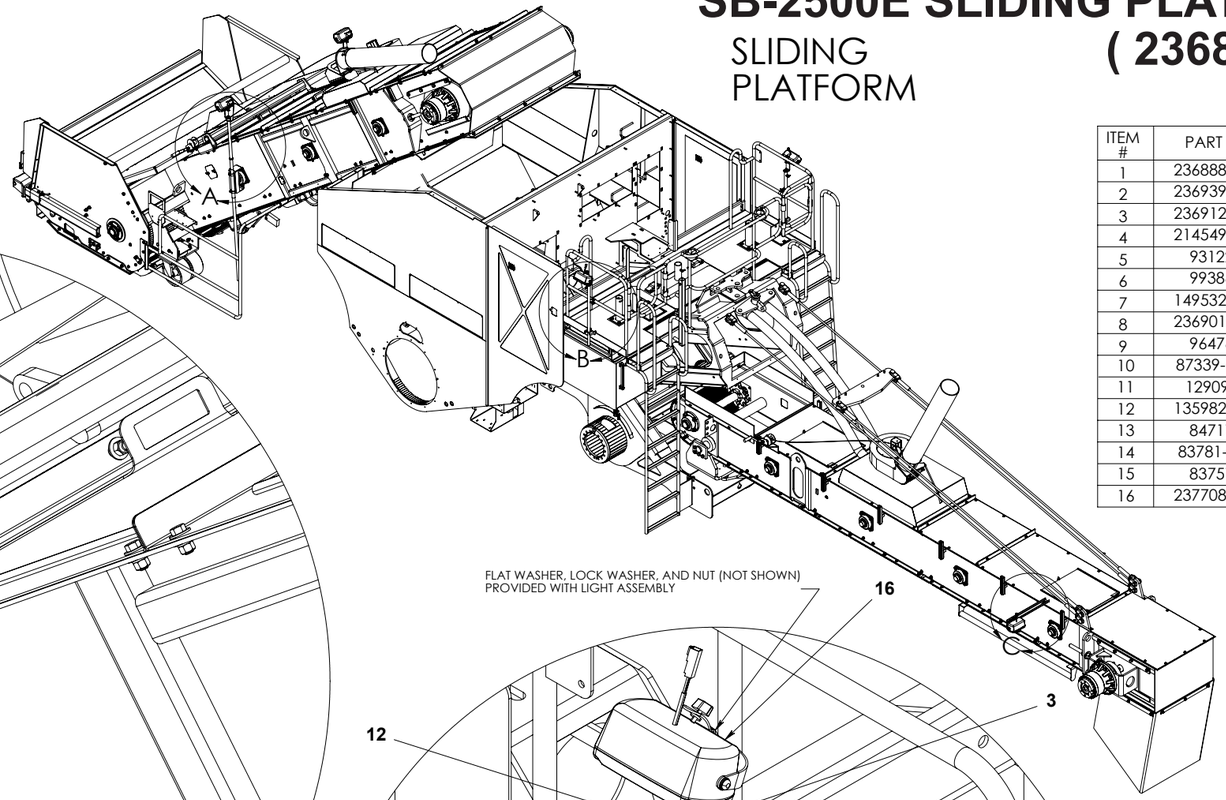
LEFT SIDE VIEW

WINDROW QUICK-CONNECT HOSE ASSY.
(221713-02)

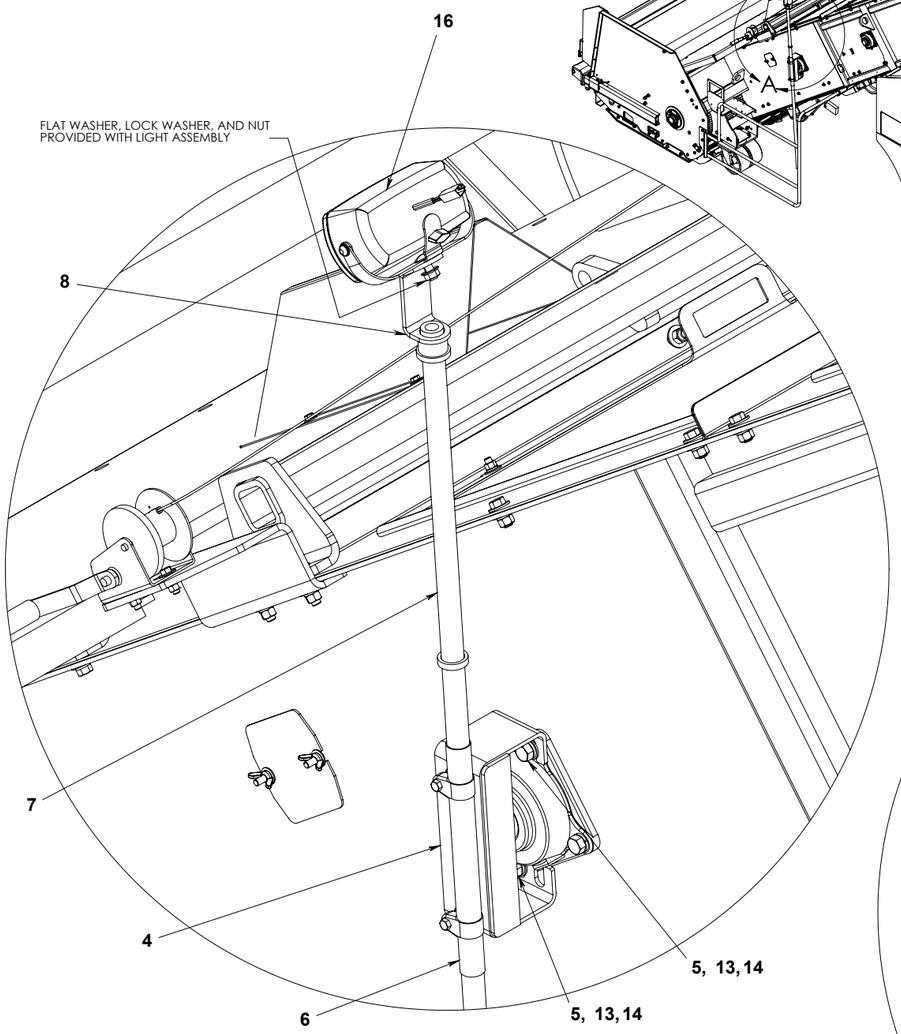
ITEM #	PART #	DESCRIPTION	QTY.
1	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	12
2	85947-04-C3	KIT * FEMALE TESTPORT DISCONNECT	13
3	86170-04	FIT * ADAPTER 6 JIC -1/4 NPT M.	13
4	212822-04	PART * 1 1/2" DIAMETER SS TAG	26
5	212821-04	PART * STAINLESS STEEL TIE	26
6	29J32	FIT * 4 JIC TEST PORT (TRIPLE LOCK)	1

SB-2500E SLIDING PLATFORM PREM. LED LIGHTS (236885-01)

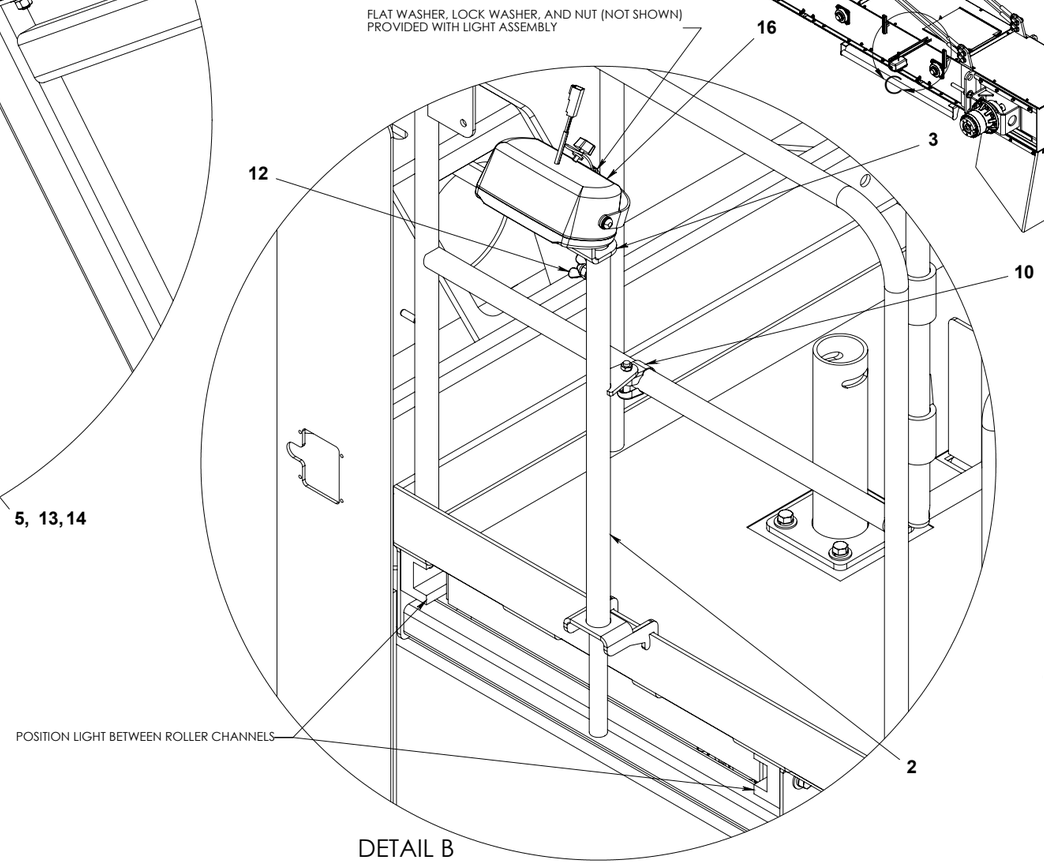
SLIDING PLATFORM



ITEM #	PART #	DESCRIPTION	QTY.
1	236888-03	DETAIL-C3 LED LIGHT MOUNT	1
2	236939-03	WLDT-SLIDING PLATFORM LIGHT MOUNT	2
3	236912-03	WELDMENT-PREMIUM LED RAIL TUBE	2
4	214549-02	C-1 LIGHT BRACKET WELDMENT	2
5	93122	BOLT * HEX 5/8"-11 X 2 1/4"	4
6	99386	UMBRELLA * UNIVERSAL BRACKET	2
7	149532-04	WELDMENT-C-1 LIGHT MOUNT TUBE	2
8	236901-03	WELDMENT-PREMIUM LED POLE BRKT	2
9	96476	BOLT * HEX 3/8"-16 X 1 1/4"	1
10	87339-C3	KIT*CLAMP 1"(INCL.3/8"2.5"CAR.BOLT)	2
11	129097	NUT * WING 3/8-16	1
12	135982-04	BOLT * WING 1/2-13 X 1 GD.8	2
13	84717	WASHER * LOCK 5/8" SPRING STEEL	2
14	83781-04	WASHER * FLAT 1/2" STEEL	4
15	83757	WASHER ~ FLAT 3/8 STEEL	2
16	237708-04	LIGHT MODIFICATION ~ 12-24 VOLT LED	5

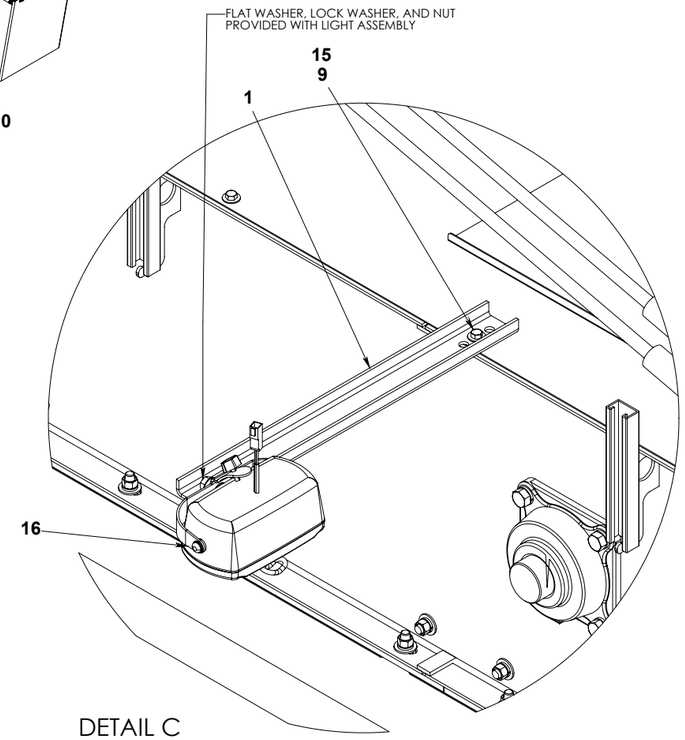


DETAIL A
INSTALL ON LEFT AND RIGHT SIDE.



DETAIL B
INSTALL ON LEFT AND RIGHT SIDE.

THIS MOUNT FITS SLIDING PLATFORM ONLY

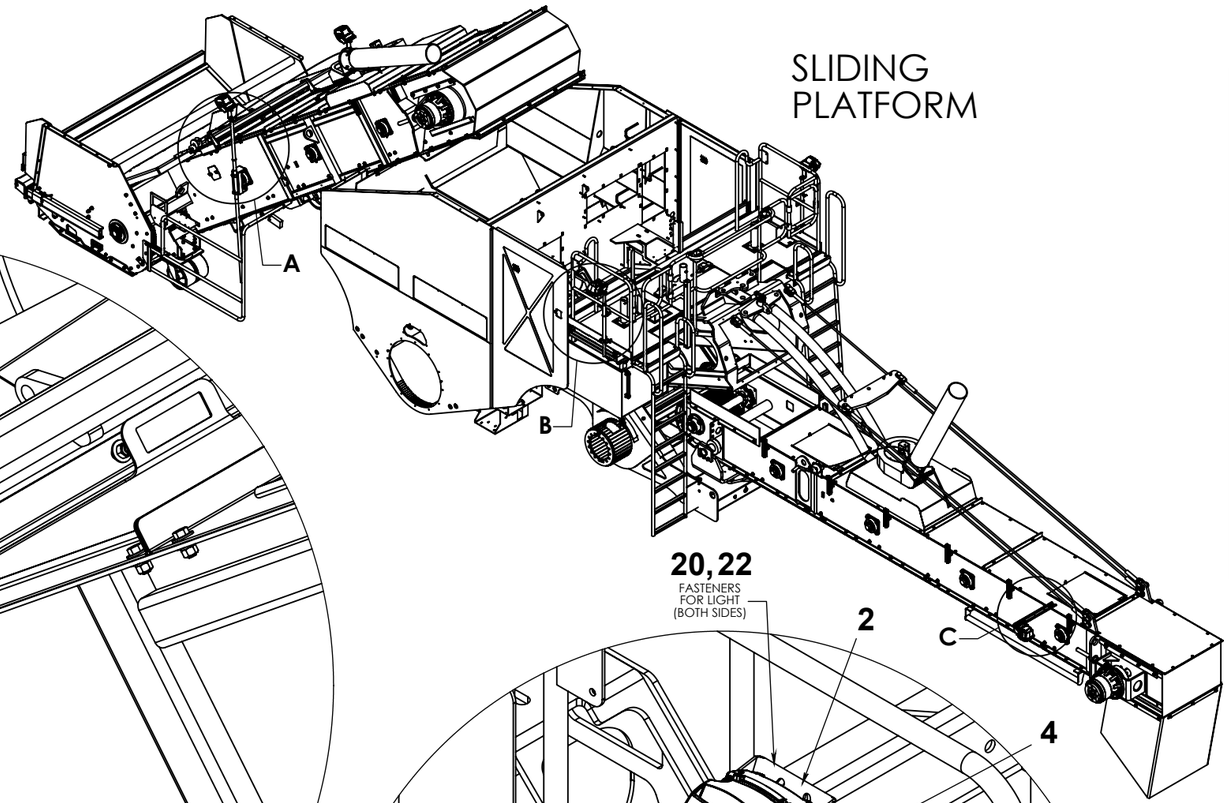


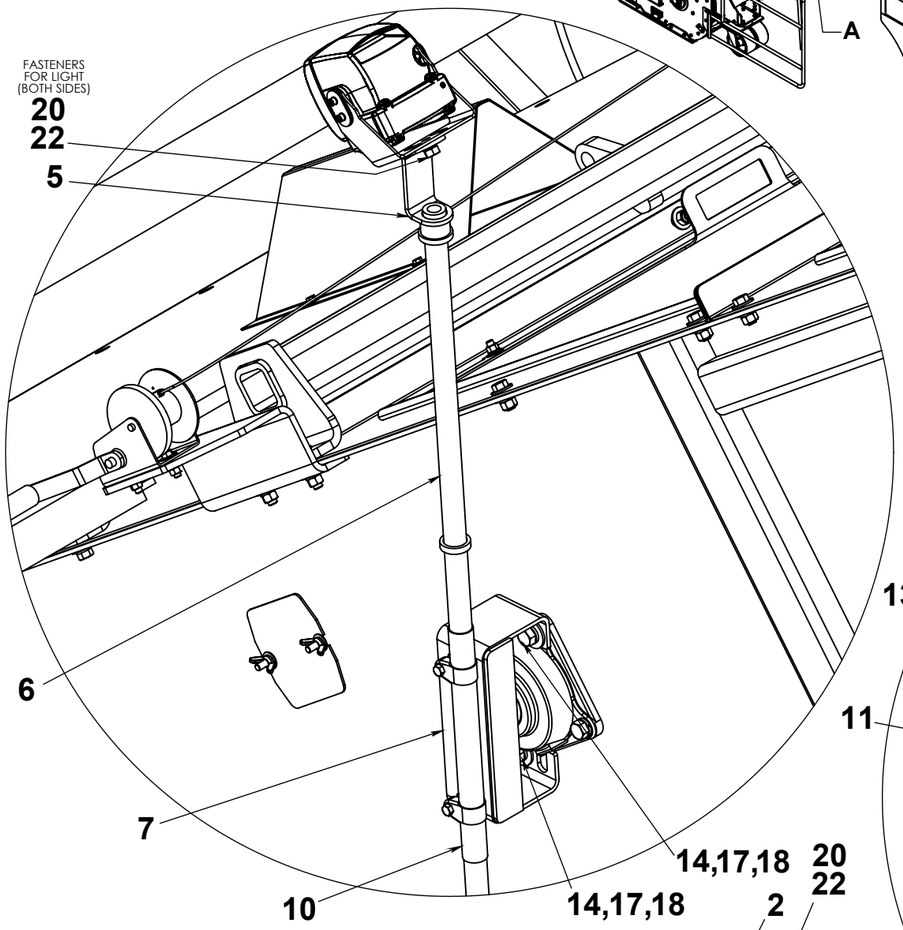
DETAIL C
INSTALL ON LEFT SIDE ONLY

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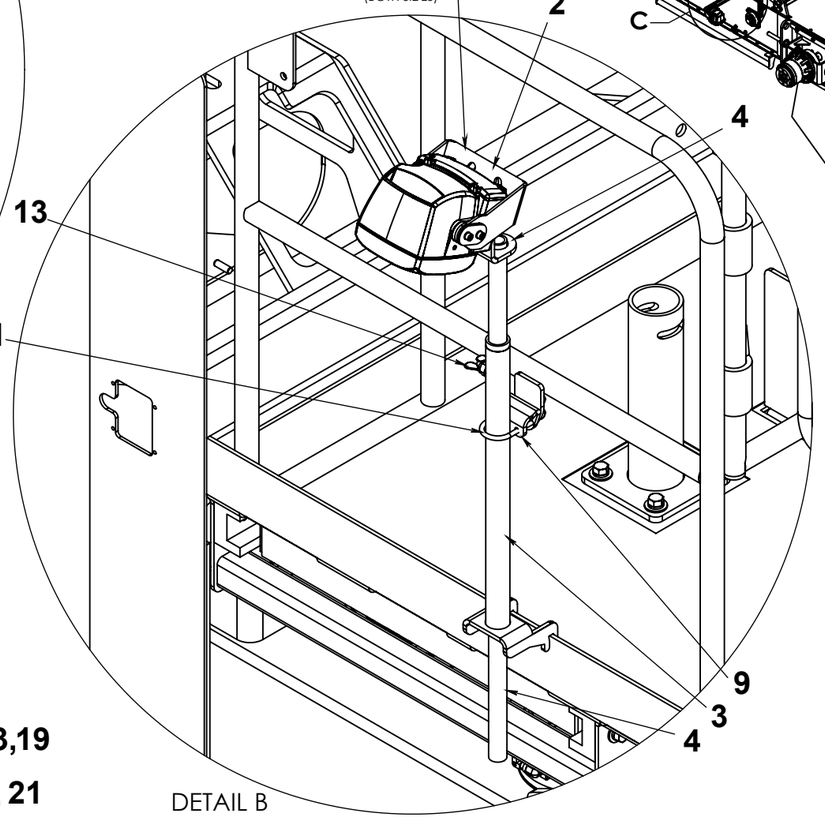
ASSY- 24V. HID WORK LIGHTS
(245870-01)

ITEM#	PART #	DESCRIPTION	QTY.
1	245247-01	WIRE HARNESS ~ HID LIGHT (NOT SHOWN)	1
2	232387-03	HELLA HIGH INTENSITY LIGHT	5
3	243751-03	WELDMENT-PLATFORM LIGHT MOUNT	2
4	243759-03	WLDT-PREM 24V LIGHT PLATFORM POST	2
5	236901-03	WELDMENT-PREMIUM LED POLE BRKT	2
6	149532-04	WELDMENT-C-1 LIGHT MOUNT TUBE	2
7	214549-02	WELDMENT-C1 LIGHT BRACKET	2
8	236888-03	DETAIL-C3 LED LIGHT MOUNT	1
9	243752-03	WLDT-PLATFORM LIGHT ADJUST BRKT	2
10	99386	UMBRELLA * UNIVERSAL BRACKET	2
11	220868-04	BOLT U 1/4-20 X 1 1/2" INSIDE	2
12	20K33	CLAMP * 3/8" DIA. X 1/2" WTH. X 1/4	3
13	135982-04	BOLT * WING 1/2-13 X 1 GD.8	4
14	93122	BOLT * HEX 5/8"-11 X 2 1/4"	4
15	96476	BOLT * HEX 3/8"-16 X 1 1/4"	1
16	83114	BOLT * HEX 1/4"-20 X 1/2"	3
17	84717	WASHER * LOCK 5/8" SPRING STEEL	4
18	85147	WASHER * FLAT 5/8"(USS 1 3/4 OD)	4
19	83317	WASHER * LOCK 1/2" SPRING STEEL	2
20	01701	WASHER * LOCK M12 7890 SPRING STEEL	5
21	83065	WASHER * LOCK 1/4" SPRING STEEL	7
22	01467	NUT * M12-1.75 934 HEX GRADE 8.8	5
23	89772	NUT * 1/4"-20 HEX GRADE 8	4

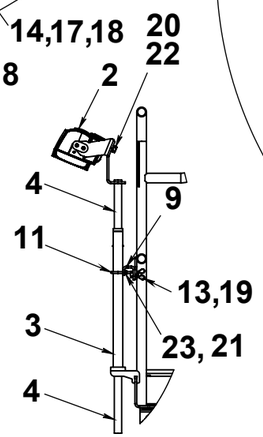




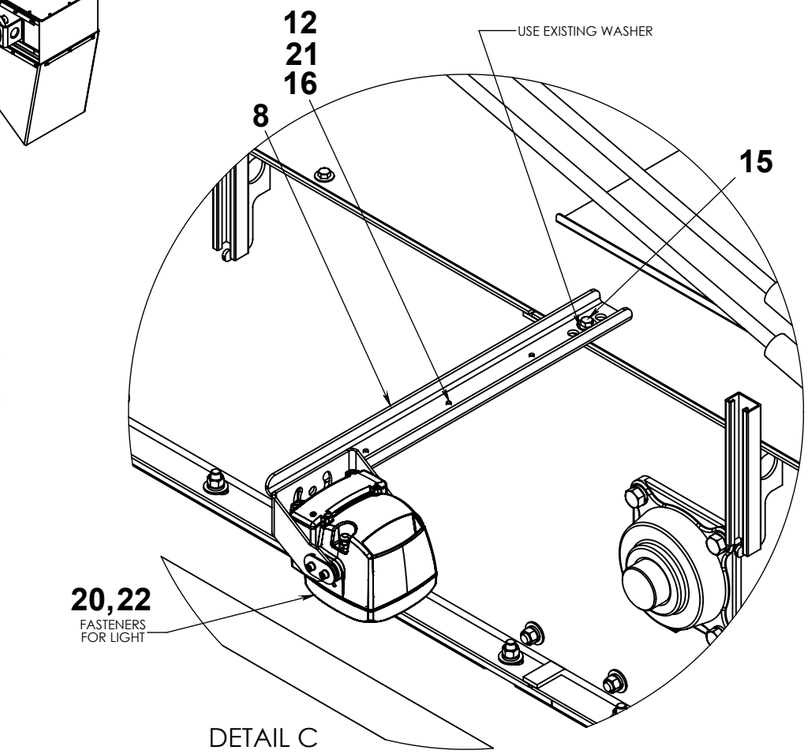
DETAIL A
INSTALL ON LEFT AND RIGHT SIDE.



DETAIL B



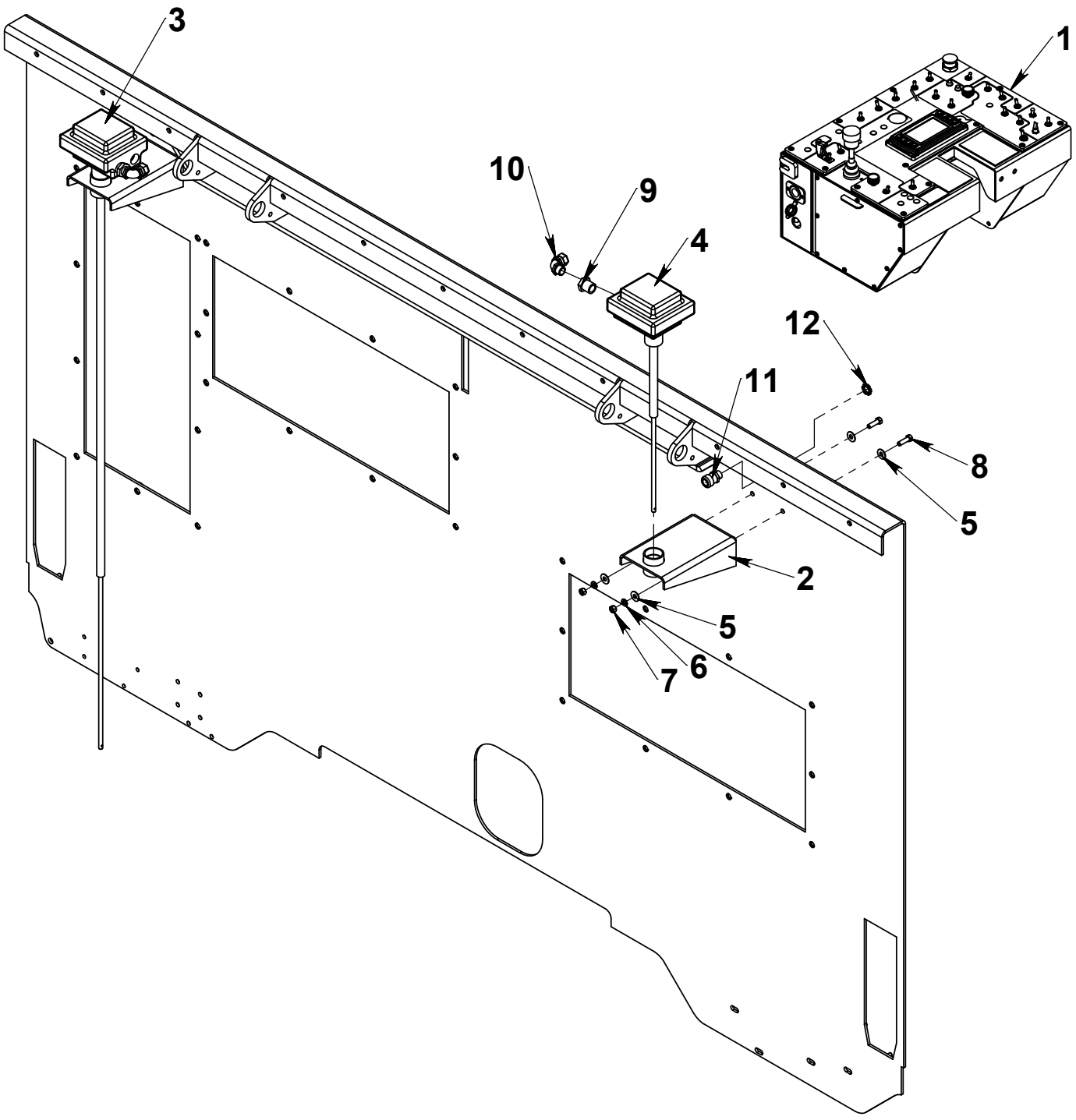
SECTIONED & CROPPED VIEW OF
LEFT SIDE OF PLATFORM



DETAIL C
INSTALL ON LEFT SIDE ONLY

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ASSEMBLY-BINDICATOR HI/LOW
(256902-01)



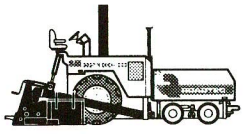
ASSEMBLY-BINDICATOR HI/LOW (256902-01)

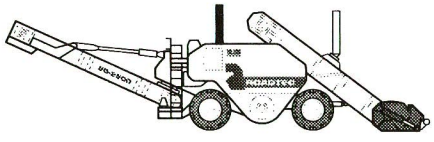
ITEM #	PART #	DESCRIPTION	QTY
1	256890-01	OPTION ~ HOPPER LEVEL LIGHTS	1
2	249535-01	WELDMENT-BINDICATOR MOUNT	2
3	249537-03	ELEC * BINDICATOR, 24-48VDC LOW	1
4	249536-03	ELEC * BINDICATOR, 24-48VDC HIGH	1
5	83757	WASHER ~ FLAT 3/8 STEEL	8
6	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
7	83055	NUT * 3/8-16 HEX GRADE 8	4
8	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
9	225968-04	BUSHING ~ RED 3/4 X 1/2 NPT 304 SS	2
10	122101-C2	KIT * SEALED CONDUIT FITTING 3/8"90	2
11	122101-C1	ELEC * 3/8" SEALED CONDUIT FITTING	2
12	122101-C3	ELECT * SEALED CONDUIT NUT	2

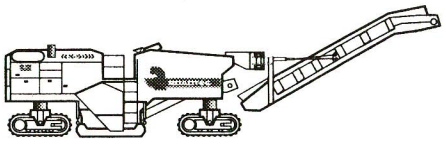
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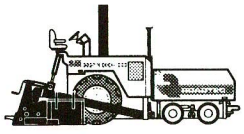
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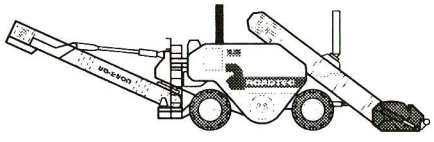
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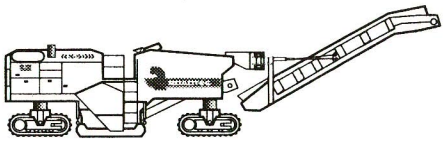
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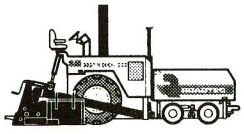
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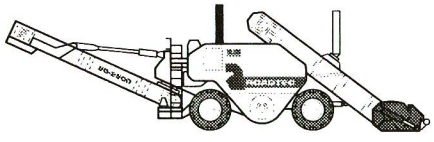
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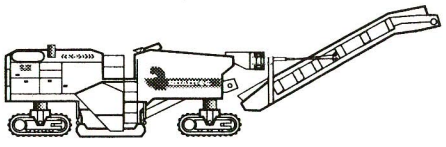
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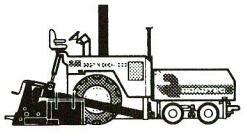
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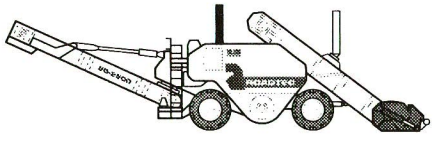
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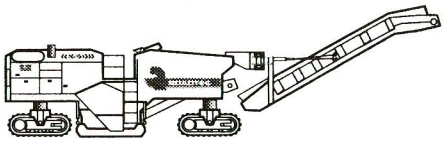
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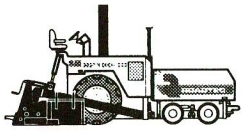
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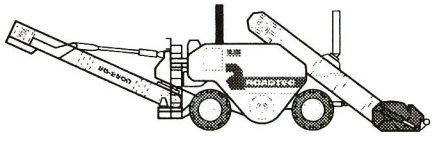
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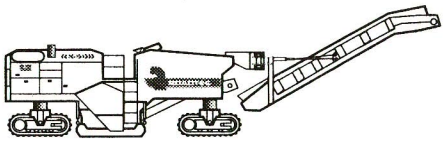
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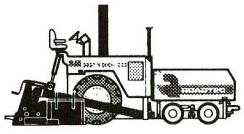
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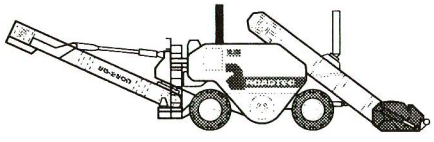
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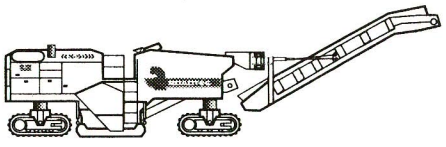
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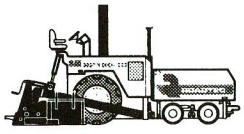
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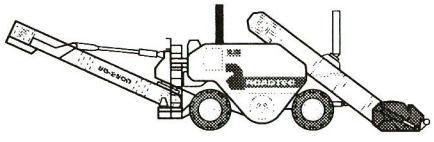
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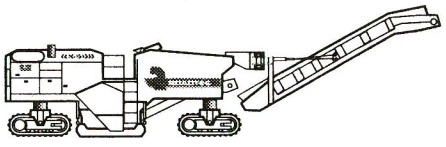
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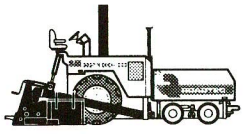
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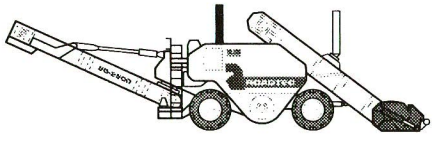
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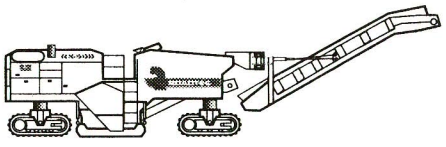
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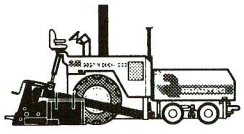
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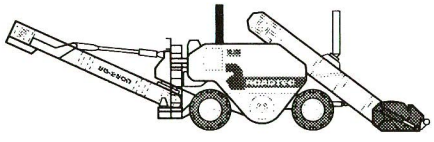
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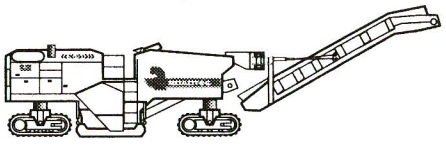
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