ROADTEC SB-2500D MATERIAL TRANSFER VEHICLE



PARTS MANUAL

P.N. 217000-J
S/N. 1091 & UP
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ROADTEC
an Astec Industries Company

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.

ROADTEC
an Astec Industries Company

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** _____

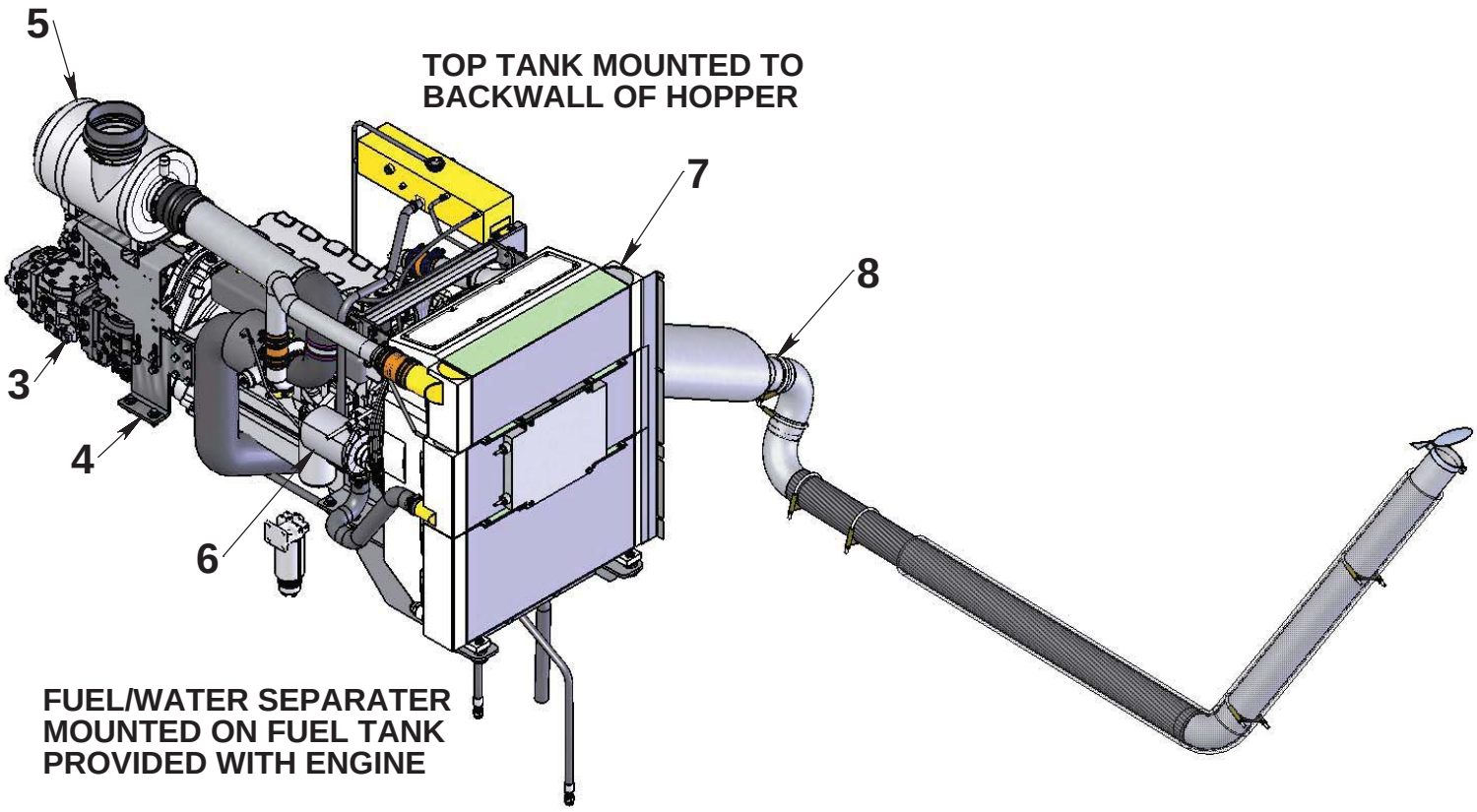
MACHINE MODEL:
SERIAL NO.:
CATALOG NO.:
ENGINE MAKE:
SERIAL NO.:
MODEL NO.:

SECTION 1 : ENGINE

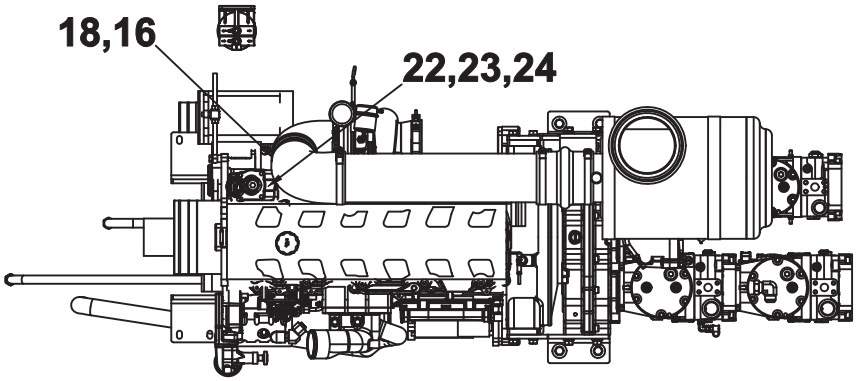
ASSEMBLY	PART NO.	S/N	PAGE NO.
ENGINE	227040-01	1038,1044 & UP	1.1
ENGINE MOUNTS	216164-01		1.4
RADIATOR	227044-01	868 & UP	1.5
THERMOSTAT BY-PASS KIT	226122-01		1.9
EXHAUST	221153-01		1.10
AIR INTAKE	217189-01		1.11
PUMPS	226454-01		1.13
DURST PUMP DRIVE	215894-03		1.15
C-1 & C-2 PUMP	99814		1.17
C-3 PUMP	29J94		1.19
AUXILIARY PUMP	211743-04		1.21
PROPEL PUMP	219675-04		1.23
DURST OIL DRAIN	142903-01		1.25

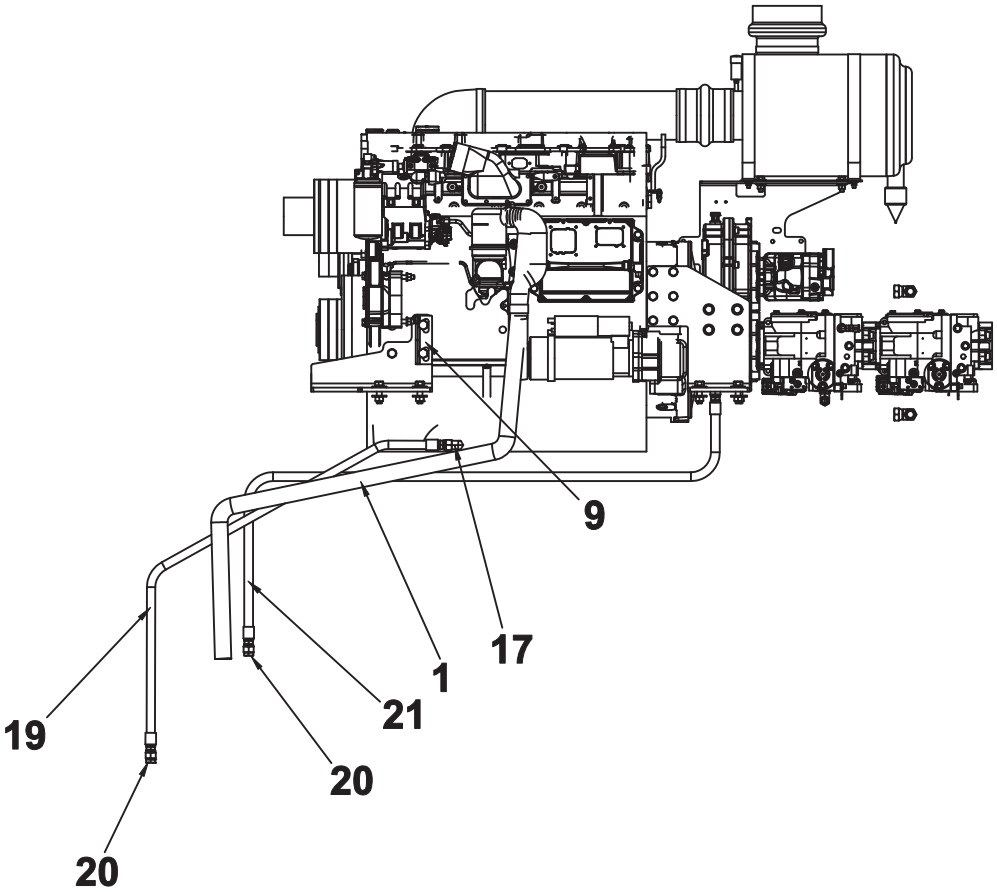
ASSEMBLY, ENGINE TIER III, CAT C9 (227040-01)

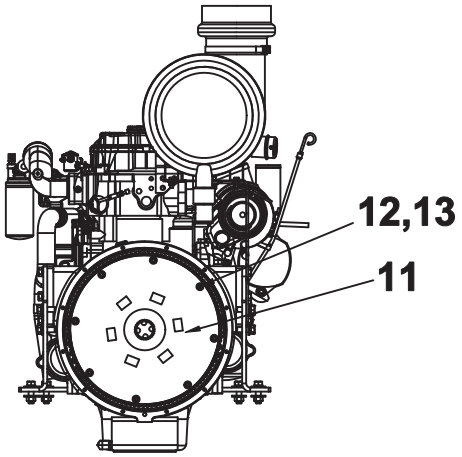
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SB-2500D ENGINE ASSEMBLY
(227040-01)





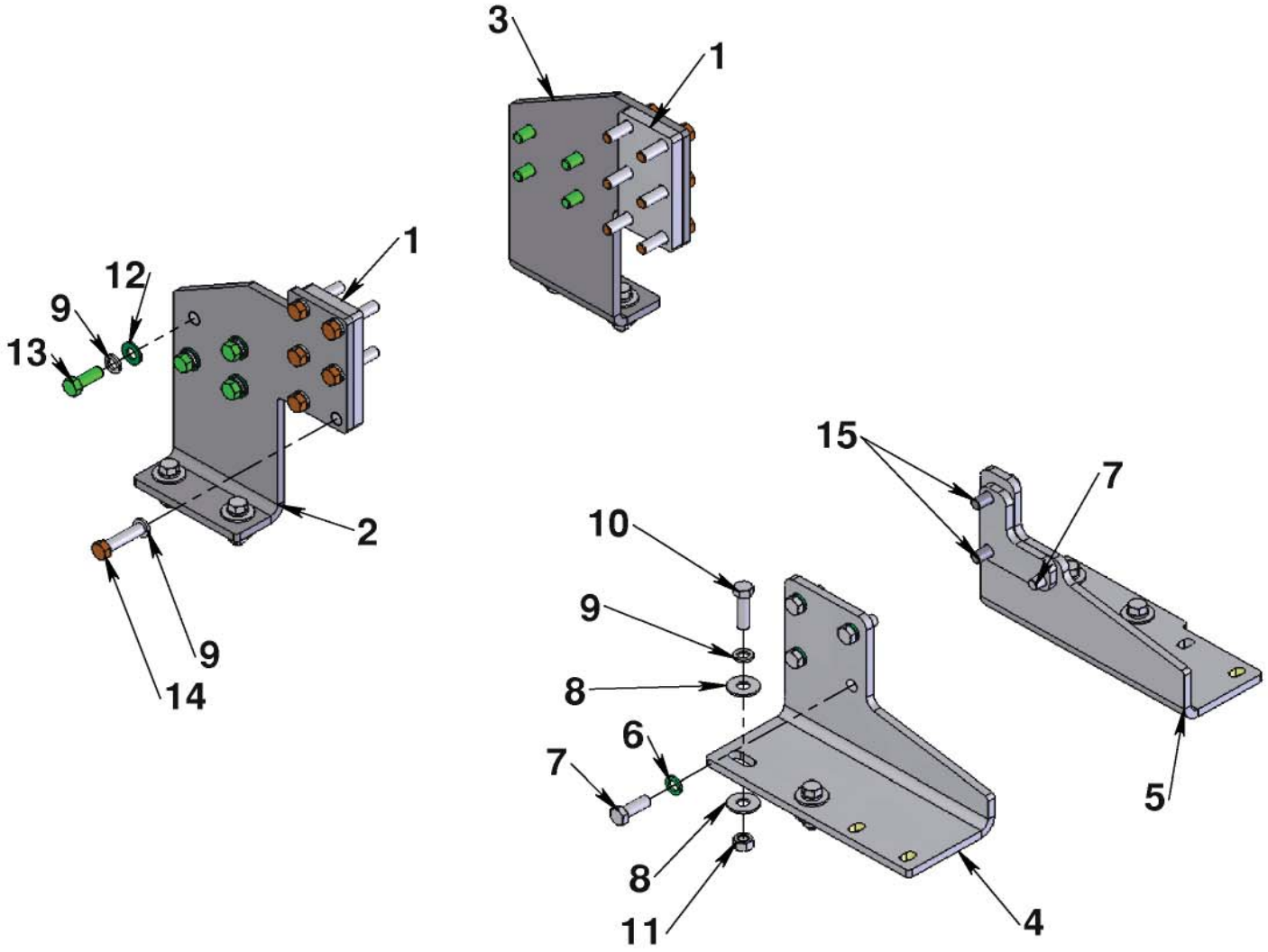


PUMP ASSEMBLY
REMOVED FOR CLARITY

ASSEMBLY, ENGINE TIER III, CAT C9 (227040-01)

ITEM #	PART #	DESCRIPTION	QTY
1	226537-01-22	HOSE * RUBBER 2" LOW PRESSURE x 86" LG	1
2	215724-04	ENGINE * CAT C9 300 HP	1
3	226454-01	ASSEMBLY, PUMPS, SB-2500D, TIER III	1
4	216164-01	ASSEMBLY-ENGINE MOUNT	1
5	217189-01	ASSEMBLY, AIR INTAKE	1
6	89687-04	ALTERNATOR, 12/24 VDC	1
7	227044-01	ASSEMBLY-RADIATOR	1
8	221153-01	ASSEMBLY, EXHAUST, CAT TIER III	1
9	216996-03	ASSEMBLY, AUX PUMP SUPPORT	1
10	216881-03	DETAIL, FUEL FILTER SPACER PLATE	1
11	215893-03	COUPLING * SPRING	1
12	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	8
13	84691	SCREW * 1/2"UNC X 1 1/4" SOC.HD.	8
14	86136-04	FIT * ADAPTOR 8 SAE -1/4 NPT F PIPE	1
15	91846-04	1/4" NPT - 1/4" BARB	1
16	216876-04	FIT * ADAPTER 8 SAE M. - 12 SAE F.	1
17	133698	ELBOW 90 DEG M W_NUT, WASHER, O-RING 12 JIC - 8 SAE	1
18	216874-04	FIT * 90 SAE TO HOSE	1
19	129853S	HOSE ASSY 129853 W/ SLEEVE	1
20	85395-04	FIT * PLUG 12 JIC	2
21	131416S	HOSE ASSY 131416 W/ SLEEVE	1
22	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	1
23	132960-04	FIT-CONNECTOR SWIVEL F 6 JIC - 4 NPT	1
24	80349-04	HOSE BARB * 1/4"NPT X 3/8" BARB	1

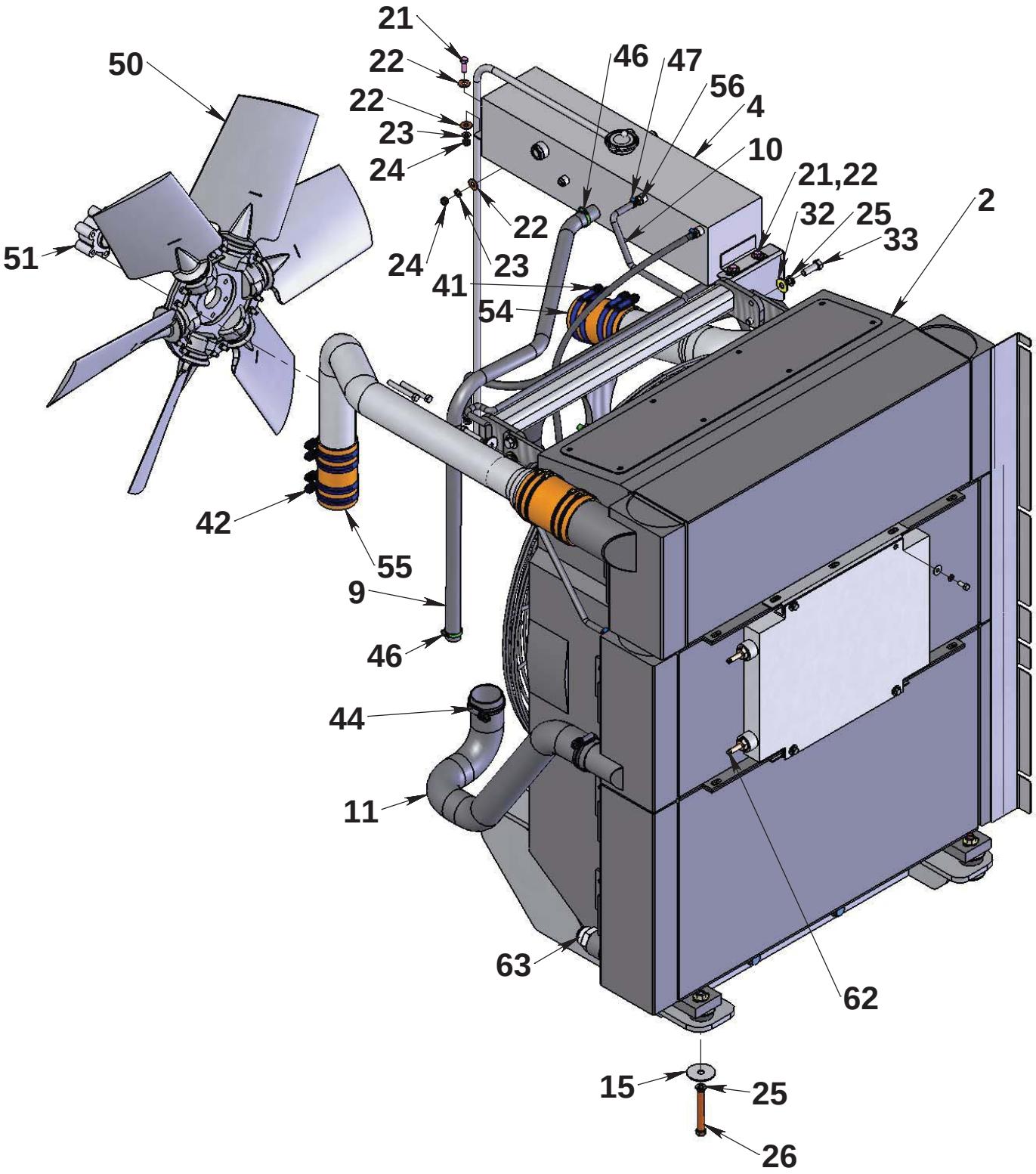
SB-2500D ENGINE MOUNT ASSEMBLY
(216164-01)



ITEM #	PART #	DESCRIPTION	QTY.
1	216175-03	REAR MOTOR MOUNT SPACER	2
2	216126-01	REAR MOTOR MOUNT-LEFT	1
3	216127-01	REAR MOTOR MOUNT-RIGHT	1
4	216122-01	FRONT MOTOR MOUNT-LEFT	1
5	216124-01	FRONT MOTOR MOUNT-RIGHT	1
6	01702	WASHER ~ LOCK 16 7980 SPRING STEEL	7
7	01202	BOLT * HEX M16 X 45 8.8 933	5
8	85147	WASHER * FLAT 5/8"(USS 1 3/4 OD)	16
9	84717	WASHER ~ LOCK 5/8" SPRING STEEL	28
10	93122	BOLT * HEX 5/8"-11 X 2 1/4"	8
11	85148	NUT * 5/8"-11 HEX GRADE 8	8
12	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	8
13	89143	BOLT * HEX 5/8-11 UNC X 1 3/4" LG.	8
14	16R05	BOLT * HEX 5/8"-11 X 3"	12
15	01204	BOLT * HEX M16 X 60 8.8 933	2

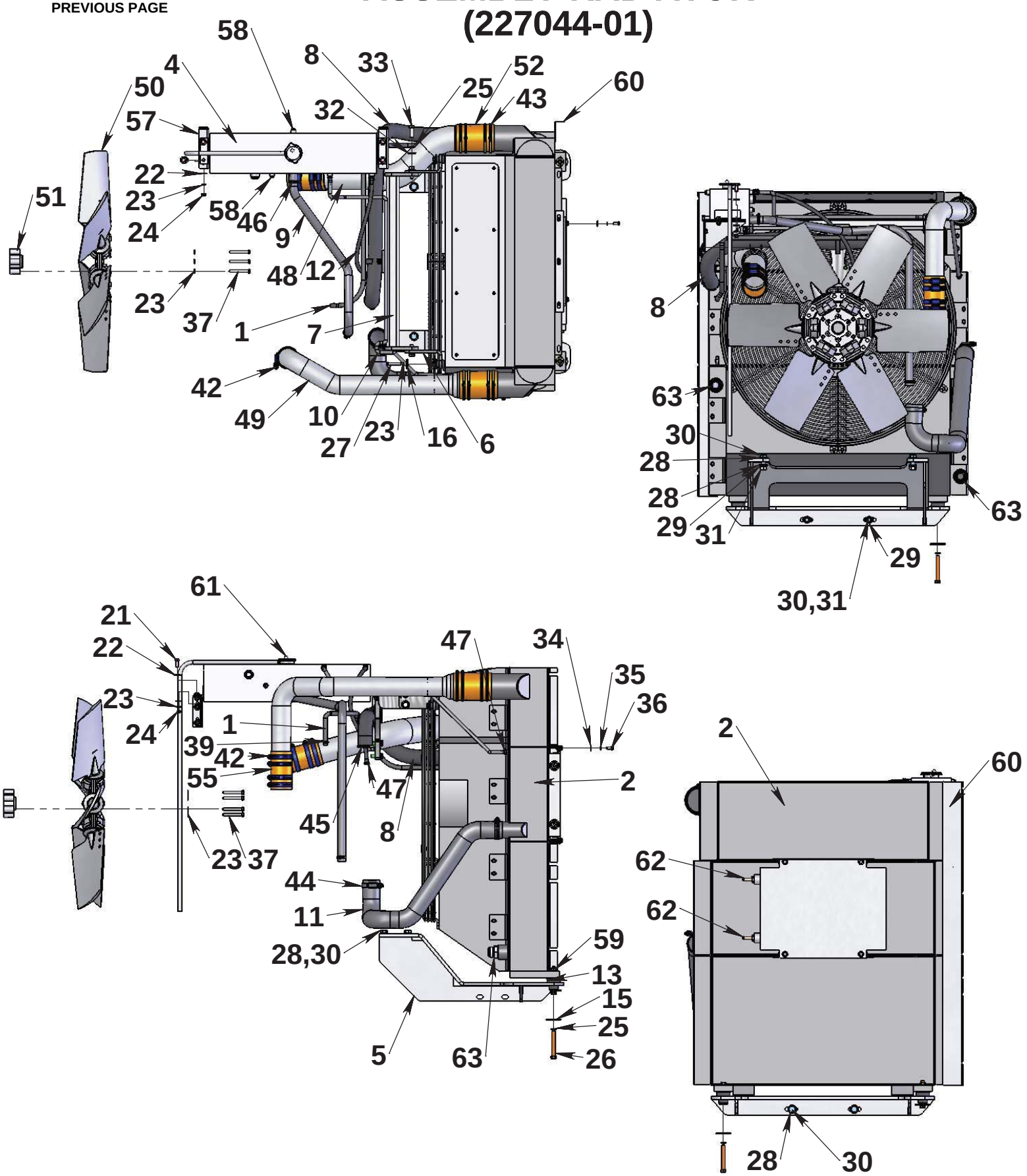
ASSEMBLY-RADIATOR
(227044-01)

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ASSEMBLY-RADIATOR (227044-01)



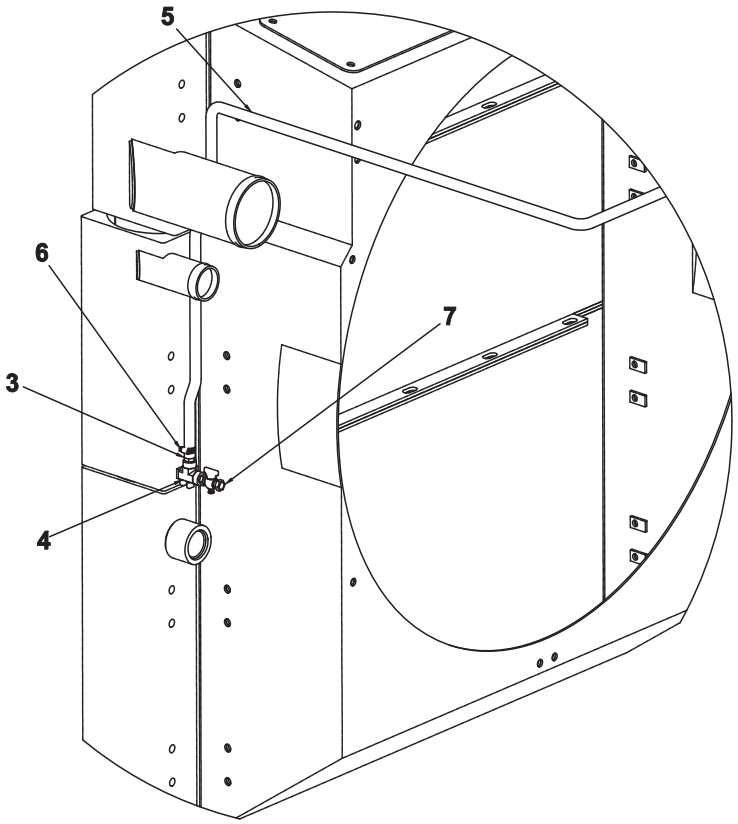
ASSEMBLY-RADIATOR
(227044-01)

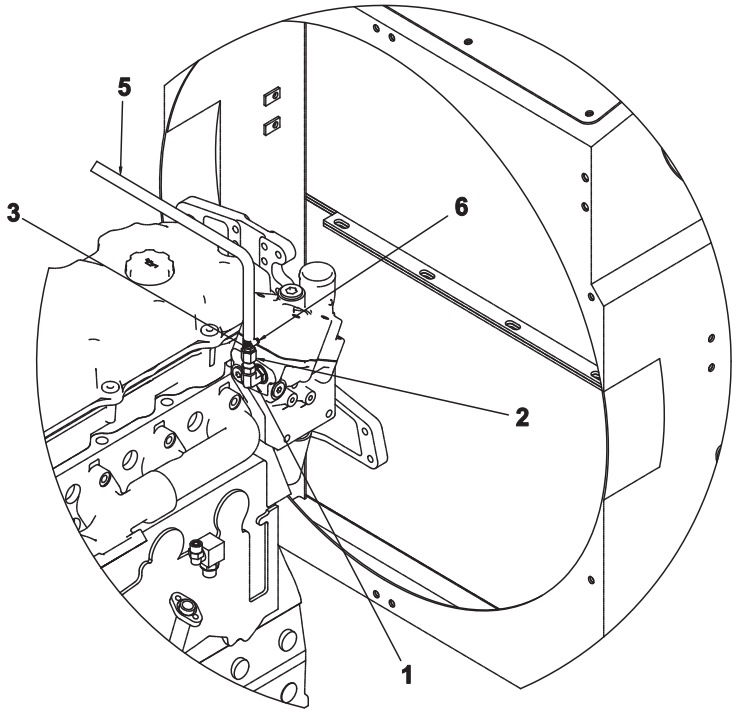
ITEM #	PART #	DESCRIPTION	QTY
1	227044-01-1	3/8" ID FUEL HOSE X 68"	1
2	217192-01	COOLING PACKAGE	1
3	203544-03	ENGINES-COOL * FUEL COOLER	1
4	216349-03	TANK * TOP TANK TIER III	1
5	217195-02	WELDMENT-BOTTOM SUPPORT	1
6	203210-03	DETAIL-TOP SUPPORT EXTENSION	2
7	216260-03	WELDMENT ~ TOP SUPPORT	1
8	217202-01-2	2" RADIATOR HOSE x 52 " LG.	1
9	217202-01-3	HOSE * 1" RADIATOR x 55"	1
10	217202-01-4	HOSE, 1/4" FUEL LINE X 36" LG.	1
11	217202-01-5	HOSE * 2 1/2"ID. X 36" RADIATOR	1
12	217202-01-44	HOSE, 1/4 FUEL LINE X 60" LG.	1
13	203226-03	RUBBER MOUNT * 1/2" BOLT SIZE	2
14	203225-03	RUBBER MOUNT * 3/8" BOLT SIZE	4
15	203228-03	RUBBER MOUNT * HEAD WASHER (CBA20)	4
16	203227-03	RUBBER MOUNT * HEAD & TAIL WASHER	4
17	87849	BOLT * HEX 1/4"-20 X 1 1/2"	1
18	84444	WASHER * FLAT 1/4" STEEL	1
19	83065	WASHER ~ LOCK 1/4" SPRING STEEL	1
20	89772	NUT * 1/4"-20 HEX GRADE 8	1
21	84332	BOLT * HEX 3/8"-16 X 1"	4
22	83757	WASHER ~ FLAT 3/8 STEEL	12
23	83056	WASHER ~ LOCK 3/8 SPRING STEEL	18
24	83055	NUT * 3/8-16 HEX GRADE 8	8
25	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	10
26	84431-04	BOLT * HEX 1/2"-13 X 4"	2
27	96475	BOLT ~ HEX 3/8"-16 X 2"	4
28	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	8
29	84717	WASHER ~ LOCK 5/8" SPRING STEEL	6
30	96041	BOLT ~ HEX 5/8-11 x 2"	6
31	85148	NUT * 5/8"-11 HEX GRADE 8	6
32	83781-04	WASHER * FLAT 1/2" STEEL	6
33	93144	BOLT * HEX 1/2"-13 X 1 1/2"	4
34	90871	WASHER ~ FLAT 5/16" STEEL	4
35	87328-04	WASHER ~ LOCK 5/16" SPRING STEEL	4
36	87329-04	BOLT ~ HEX 5/16"-18 x 3/4"	4
37	121200	HEX BOLT * 3/8"-16 X 3"	6
38	01190	BOLT * HEX M12-1.75 X 40 8.8 933	4
39	45228	CLAMP * 3/8"- 1/2 WORM	2
40	205668-04	CLAMP RUBBERIZED	1
41	90084-04	CLAMP * CONSTANT TORQUE	4
42	90085-04	CLAMP * 3 1/2 T-BAR	4
43	133591	CLAMP ~ 3 5/8"TO 4 5/8"	8
44	86003-04	CLAMP * 2 1/4 X 3 1/8 CONSTANT-TORQ	2
45	122629	CLAMP ~ 1 3/4 x 2 5/8 CONSTANT-TORQ	2

ASSEMBLY-RADIATOR
(227044-01)

ITEM #	PART #	DESCRIPTION	QTY
46	23H31	CLAMP ~ 1 1/4" WORM	2
47	94904	CLAMP * HOSE 1/4"	4
48	216215-01	DETAIL, CHARGE AIR TUBE, TURBO EXIT	1
49	216216-01	CHARGE AIR, TURBO OUTLET	1
50	215932-03	FAN	1
51	216342-03	DETAIL, FAN SPACER	1
52	216449-04	COUPLING* 4" CHARGE AIR COOLING RUBBER	2
53	216337-03	WELDEMENT ~ FUEL COOLER SUPPORT BRACKET	2
54	216448-04	COUPLING* 3 1/2" CHARGE AIR COOLING RUBBER	1
55	216447-04	COUPLING* 3" CHARGE AIR COOLING RUBBER	1
56	91846-04	1/4" NPT - 1/4" BARB	3
57	217048-01	EXPANSION TANK BRACE	2
58	98247	PLUG 1/4" NPT CSK SOC. HD. BRASS	2
59	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	2
60	217614-01	RADIATOR FLASHING	1
61	146736	FLUIDS*COOLING ADDITIVE-1 QUART BTL	1
62	218301-04	CONNECTOR, 8 MALE SAE TO 6 HOSE	2
63	84244-04	FIT * CONNECTOR 20 JIC - 20 SAE M	2
64	80349-04	HOSE BARB * 1/4"NPT X 3/8" BARB	1

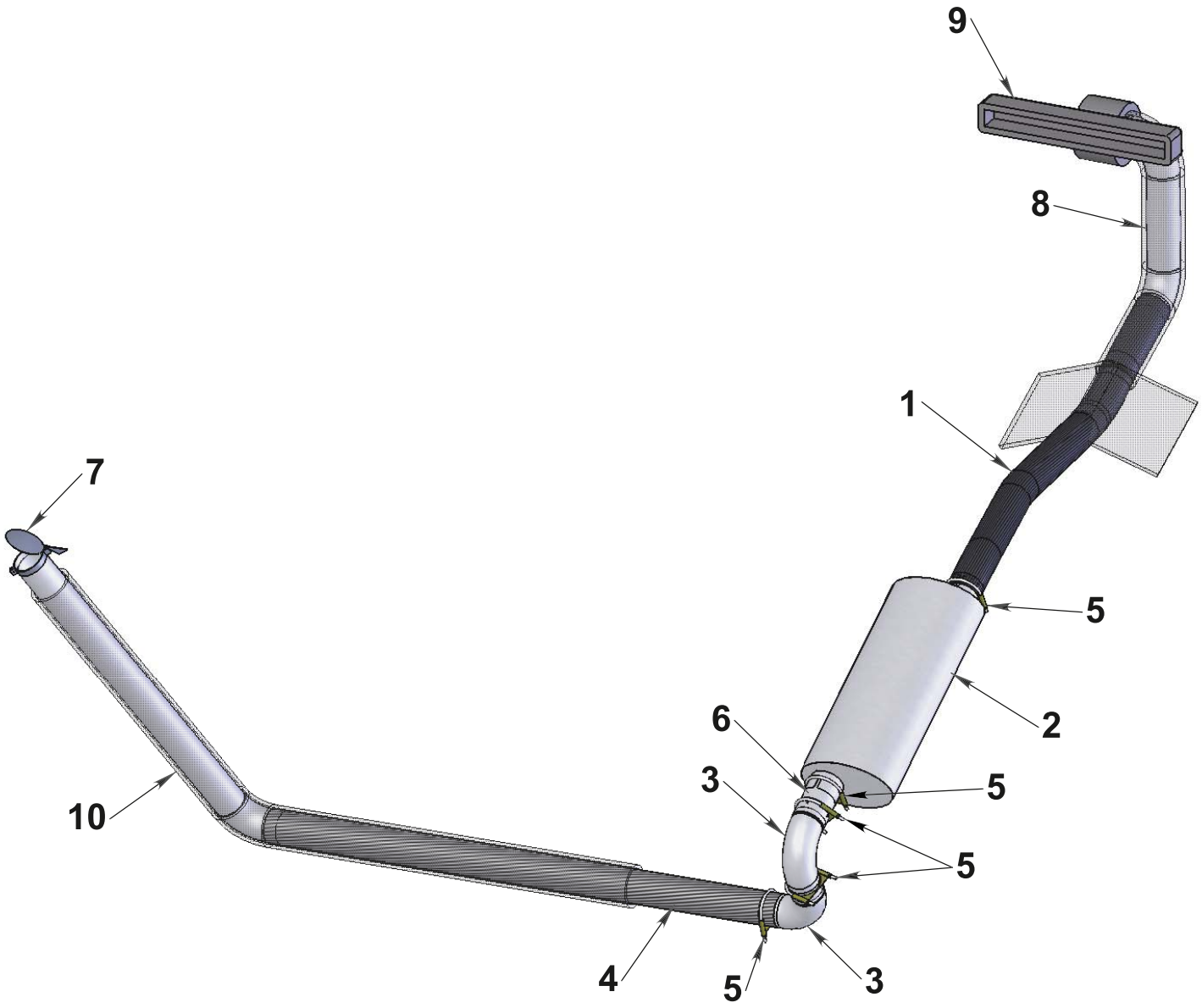
KIT- C-9 THERMOSTAT BY-PASS
(226122-01)





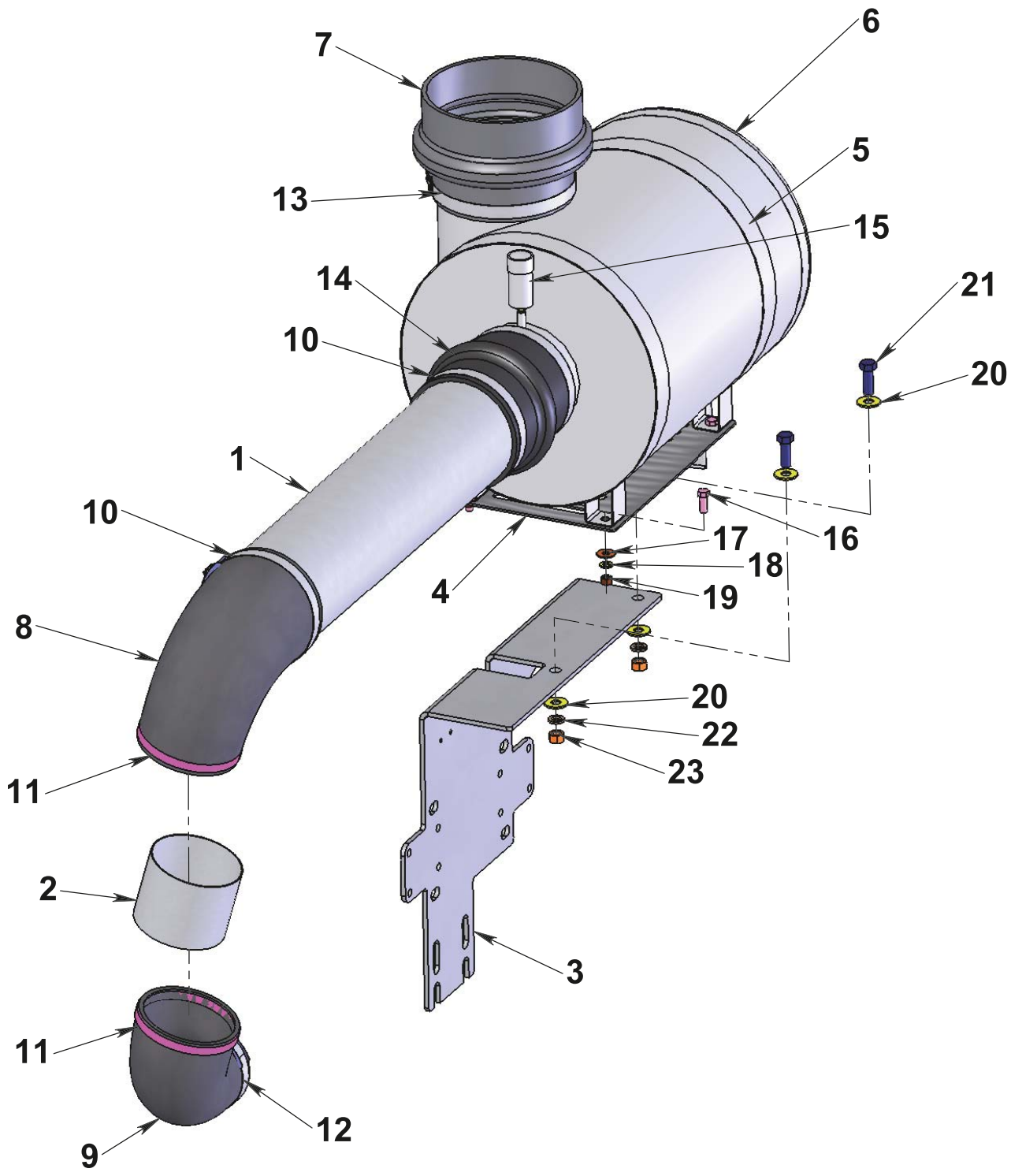
ITEM #	PART NO.	DESCRIPTION	QTY.
1	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	1
2	132960-04	FIT - CONNECTOR SWIVEL F 6 JIC - 4 NPT	1
3	80349-04	HOSE BARB - 1/4" NPT X 3/8" BARB	2
4	120661	FIT - 1/4" NPT MALE RUN TEE	1
5	226122-01-1	3/8" ID FUEL HOSE X 68"	1
6	45228	CLAMP - 3/8"-1/2" WORM	2
7	93247-04	VALVE - DRAIN COCK 1/4" NPT	1
8			
9			
10			

ASSEMBLY, EXHAUST, CAT TIER III
(221153-01)



ITEM #	PART #	DESCRIPTION	QTY
1	216965-01	EXHAUST * TUBE - TURBO	1
2	216024-03	MUFFLER, 5" X 10-15" OVAL, 42.5 OAL	1
3	216500-03	EXHAUST * ELBOW 90 5"OD X 5"ID	2
4	217871-01	EXHAUST STACK	1
5	89096-04	CLAMP ~ 5" MUFFLER	5
6	221153-01-5	TUBE, 5" x 1/16" WA, 6" LG, A513	1
7	89078-04	RAIN CAP * DURALIFE 5" (CHROME)	1
8	217091-03	INSULATION ~ EXHAUST BEFORE MUFFLER	1
9	220658-04	INSUL * TURBO BLANKET KIT	1
10	216507-03	INSUL * EXHAUST AFTER MUFFLER	1

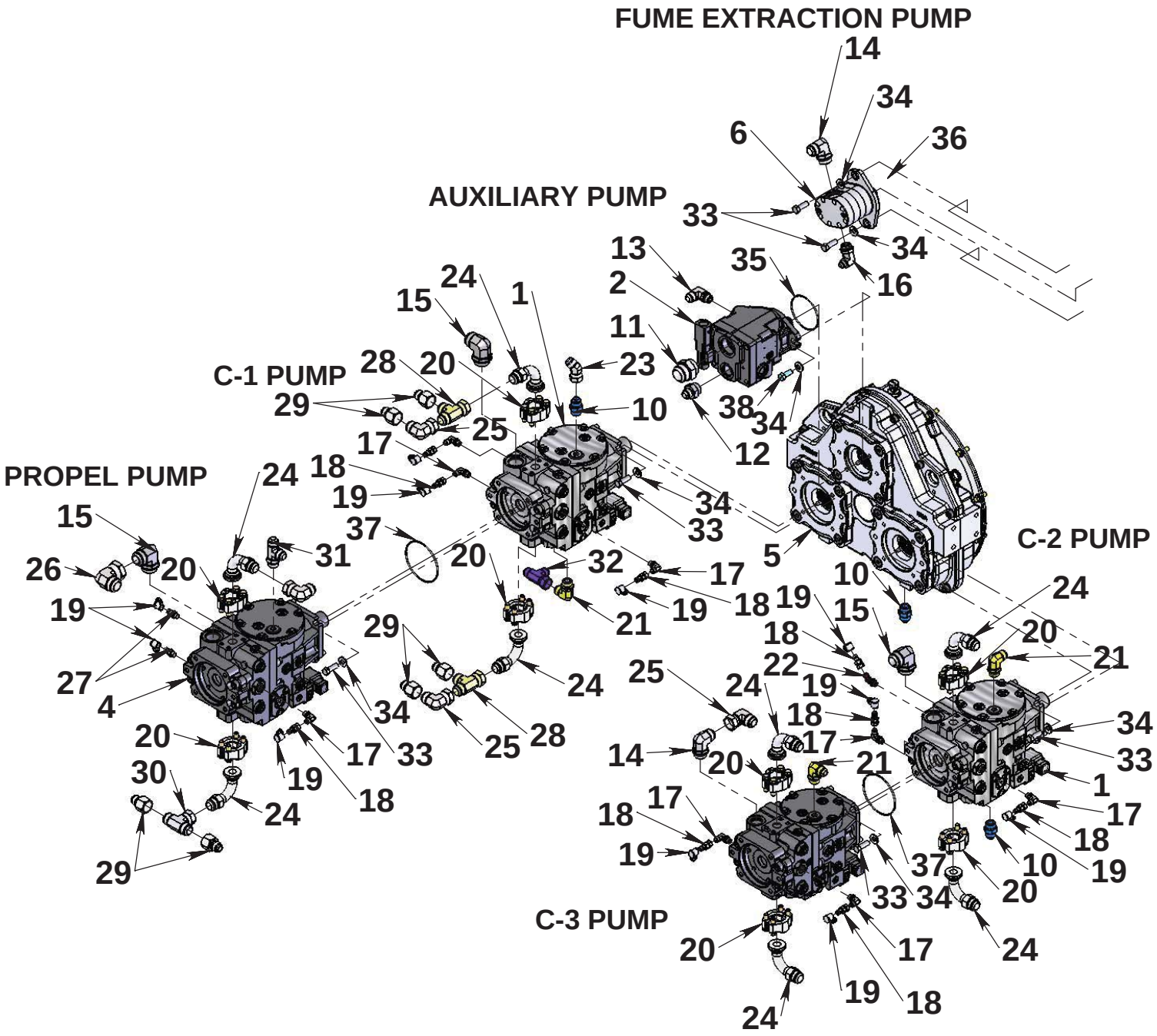
ASSEMBLY, AIR INTAKE
(217189-01)



ASSEMBLY, AIR INTAKE
(217189-01)

ITEM #	PART #	DESCRIPTION	QTY
1	217189-01-1	RD.TUBE, 6" x 1/16" WA, 28" A36	1
2	217189-01-2	RD.TUBE, 5" x 1/16" WA, 4" A36	1
3	140513-01	DETAIL-AIR CLEANER BRACKET-2500B	1
4	140525-04-1	PLATE, 1/8 x 10 x 15, A36	1
5	203087-03	FILTER*15"MOUNTING BAND(AIR CLEANR)	2
6	203086-03	FILTER * AIR CLEANER SB/MTV TIER II	1
7	201416	RUBBER * 8-7 HUMP REDUCER	1
8	135693	RUBBER * 6 TO 5 90 DEG.ELBOW	1
9	126978	RUBBER * 4" TO 5" REDUCING ELBOW	1
10	95047	CLAMP ~ 6" T-BAR	3
11	95591	CLAMP * T-BAR 5"	2
12	83129	CLAMP * T-BAR 4"	1
13	135309	CLAMP ~ 7" T-BAR	1
14	95043	RUBBER * 6" STRAIGHT HUMP	1
15	28R14	GAUGE * RESTRICTION INDICATOR KIT	1
16	84332	BOLT * HEX 3/8"-16 X 1"	4
17	83757	WASHER ~ FLAT 3/8 STEEL	4
18	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
19	83055	NUT * 3/8-16 HEX GRADE 8	4
20	83781-04	WASHER * FLAT 1/2" STEEL	4
21	93144	BOLT * HEX 1/2"-13 X 1 1/2"	2
22	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	2
23	83288	NUT * 1/2"-13 HEX GRADE 8	2

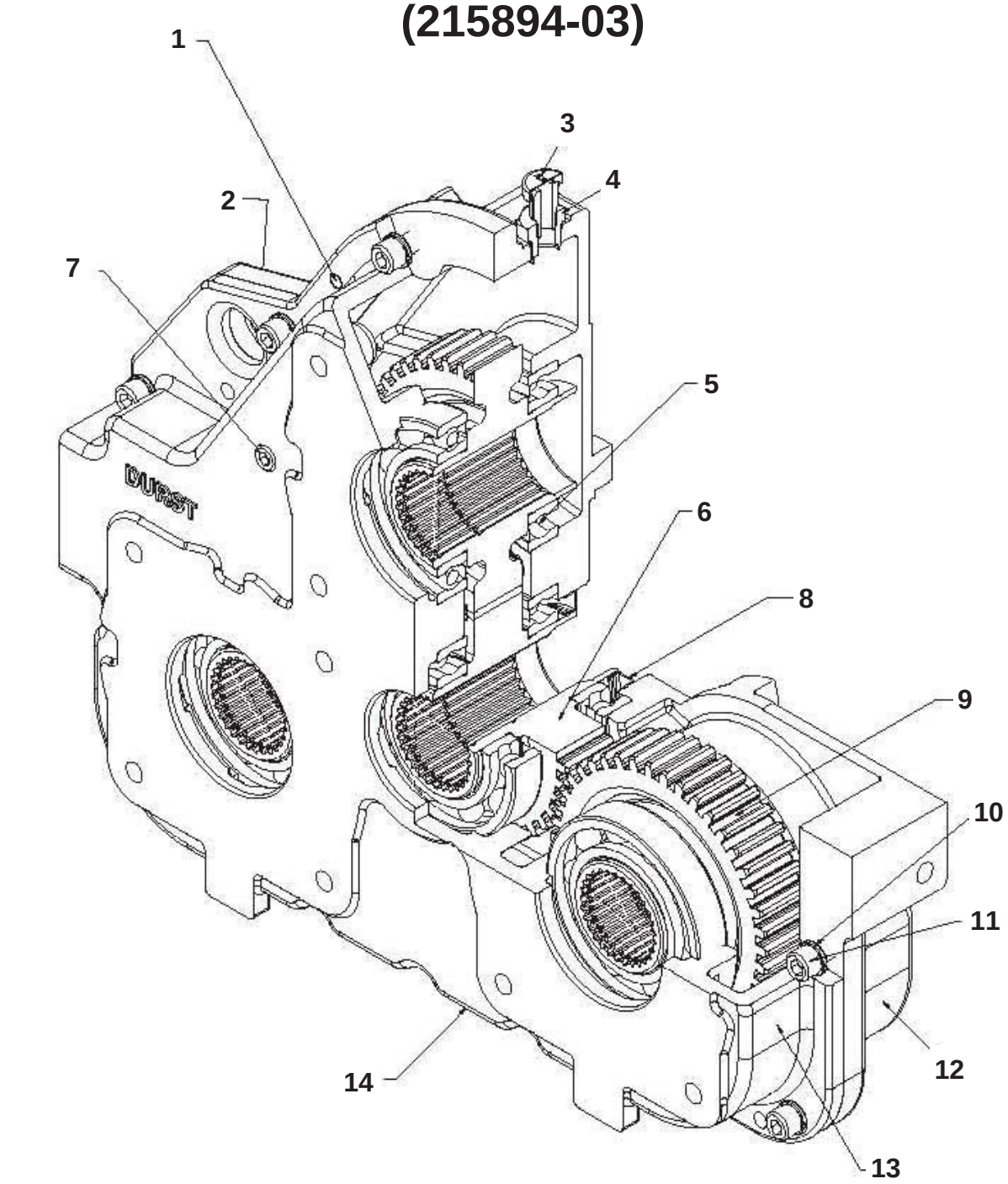
ASSEMBLY, PUMPS, SB-2500D, TIER III (226454-01)

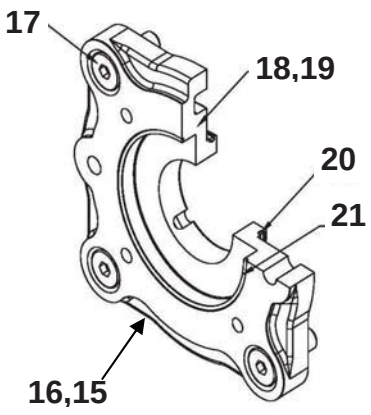


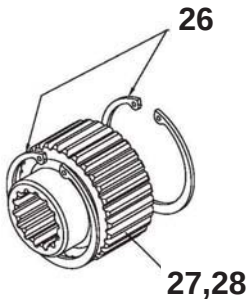
ASSEMBLY, PUMPS, SB-2500D, TIER III (226454-01)

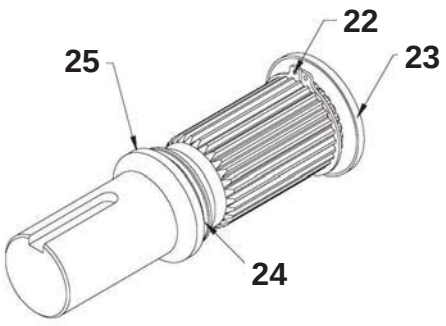
ITEM #	PART #	DESCRIPTION	QTY
1	99814	PUMP, CLOSED LOOP, SAUER-DANFOSS SERIES 90/100CC, CCW	2
2	211743-04	PUMP *AUX 45CC PRESSURE COMPENSATED	1
3	29J94	PUMP, HYD, STAT. S90 75cc	1
4	219675-04	PUMP * HYD STAT SERIES 90-100CC	1
5	215894-03	PUMP * DRIVE 3 PAD DURST W/1.17:1	1
6	204513-04	PUMP * 1.37 CID GEAR	1
7	83756-04	WASHER * LOCK 7/16" SPRING STEEL	12
8	26G26	BOLT * HEX 7/16"-14 X 1 1/4"	12
9	91208	WASHER * FLAT 7/16" STEEL	12
10	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	3
11	83768-04	FIT * CONNECTOR 24 JIC - 24 SAE M.	1
12	85874-04	FIT * CONNECTOR 12 JIC -16 SAE M.	1
13	97551	FIT * 12 JIC TO 10 SAE 90 DEGREE	1
14	91660	FIT * ELBOW 16 JIC - 16 SAE 90 DEG.	2
15	97168	FIT * ELBOW 20 JIC X 20 SAE 90 DEG.	3
16	127491	FITTING * 8 JIC-12 SAE 90	1
17	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	8
18	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	9
19	85949-04	FIT ~ TEST PORT QD CAP 3/8	11
20	90729	KIT * FLANGE #16 CODE 62	8
21	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	3
22	137703-04	FIT * 6 SAE X 6 JIC 45 ELBOW	1
23	90952-04	FIT * ELBOW 12 JIC 45 DEG. SWIVEL	1
24	92775	FIT*16 JIC-16 FLG 90 DEG.CODE 62 HP	8
25	84654-04	FIT * SWIVEL ELBOW 16 JIC 90 STEEL	4
26	85216-04	FIT * SWIVEL ELBOW 20 JIC 90 DEG	1
27	85948-04	FIT * TEST PORT 6 SAE	2
28	98118	FIT * SWIVEL RUN TEE 16 JIC	2
29	89596-04	FIT * REDUCER 16 JIC F. - 12 JIC M.	6
30	90939-04	FIT * BRANCH TEE 16 JIC SWIVEL	1
31	85303-04	FIT * RUN TEE 12 JIC - 12 SAE MALE	1
32	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	1
33	93144	BOLT * HEX 1/2"-13 X 1 1/2"	18
34	05707	WASHER ~ CONICAL HS12 6796 STEEL	20
35	211562-04	KIT * ORING - 2-155	1
36	123041-04-C2	KIT * O-RING-.064 DIA. NOT SHOWN	1
37	223350-04	ORING - SD SAE C FLANGE	2
38	86164	BOLT * HEX 1/2"-13 X 1 1/4"	2

DURST PUMP DRIVE – SB-2500D
(215894-03)





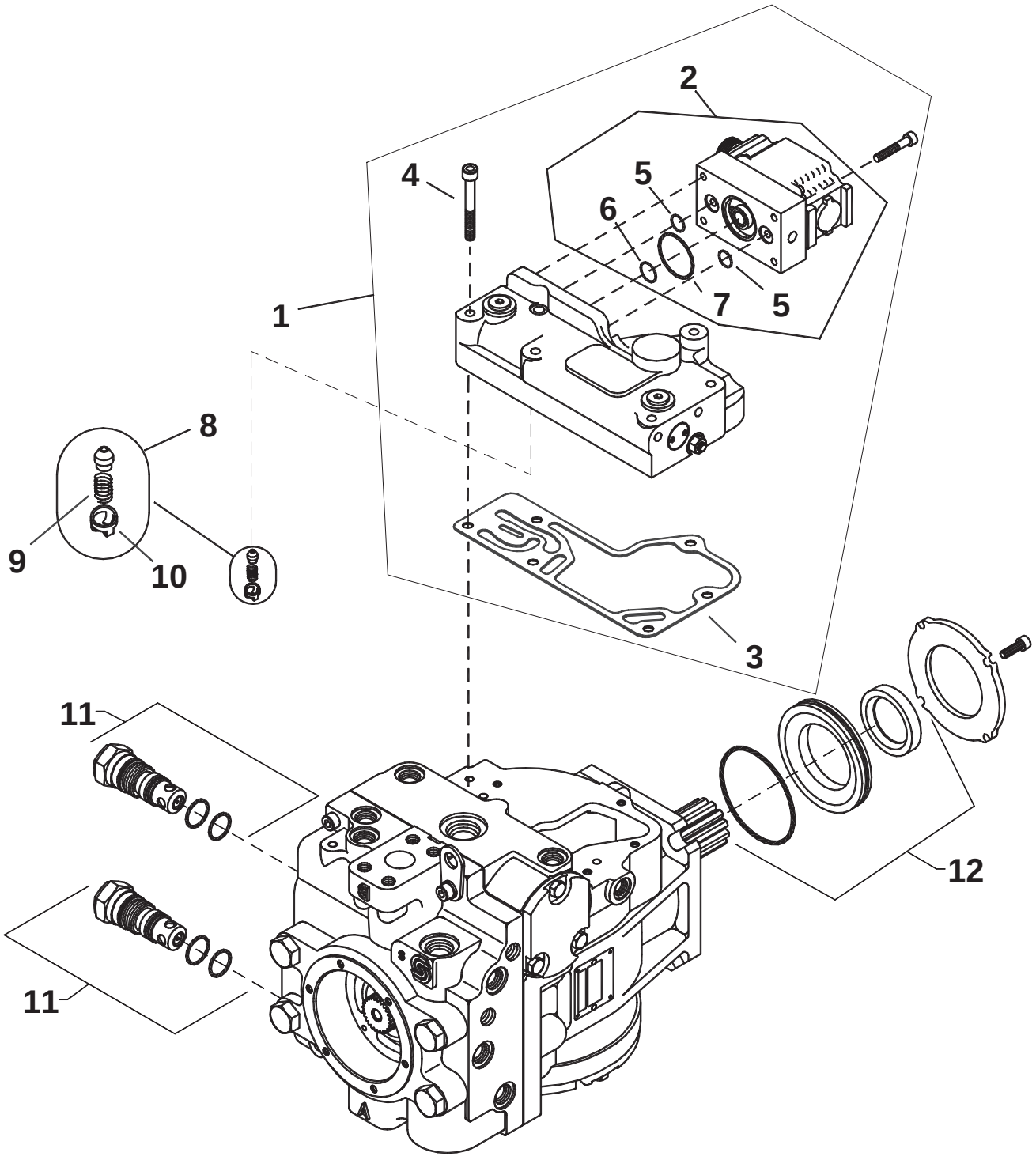




DURST PUMP DRIVE - SB-2500D
(215894-03)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
		3PD06-171-N11-BBBH-CDH-CDH-LS	
1	215894-03-C2	DOWEL PIN	2
2	215894-03-C1	DIPSTICK	1
3	135572-01-C3	VENT	1
4	215894-03-C4	FITTING	1
5	215894-03-C5	BEARING	8
6	215894-03-C6	INPUT GEAR	1
7	215894-03-C7	INVERTED OIL PLUG	1
8	215894-03-C8	SEAL	1
9	215894-03-C9	OUTPUT GEAR	3
10	215894-03-C10	WASHER	12
11	215894-03-C11	CAPSCREW	12
12	215894-03-C12	INPUT HOUSING	1
13	215894-03-C13	OUTPUT HOUSING	1
14	215894-03-C14	DRAIN PLUG	1
15	215894-03-C15	KIT - PUMP PAD "B"	1
16	215894-03-C16	KIT - PUMP PAD "C"	2
17		CAPSCREW	12
18		PUMP PAD "B"	1
19		PUMP PAD "C"	2
20		O-RING	3
21		O-RING	3
22	215894-03-C17	RETAINING RING	1
23	215894-03-C18	EXPANSION PLUG	1
24	215894-03-C19	O-RING	1
25	215894-03-C20	INPUT SHAFT	1
26	215894-03-C21	RETAINING RING	2
27	215894-03-C22	SPLINE ADAPTER - SAE BB	1
28	215894-03-C23	SPLINE ADAPTER - SAE D	2
29		KIT - ENGINE ADAPTER (NOT SHOWN)	

C-1 & C-2 PUMP
(99814)

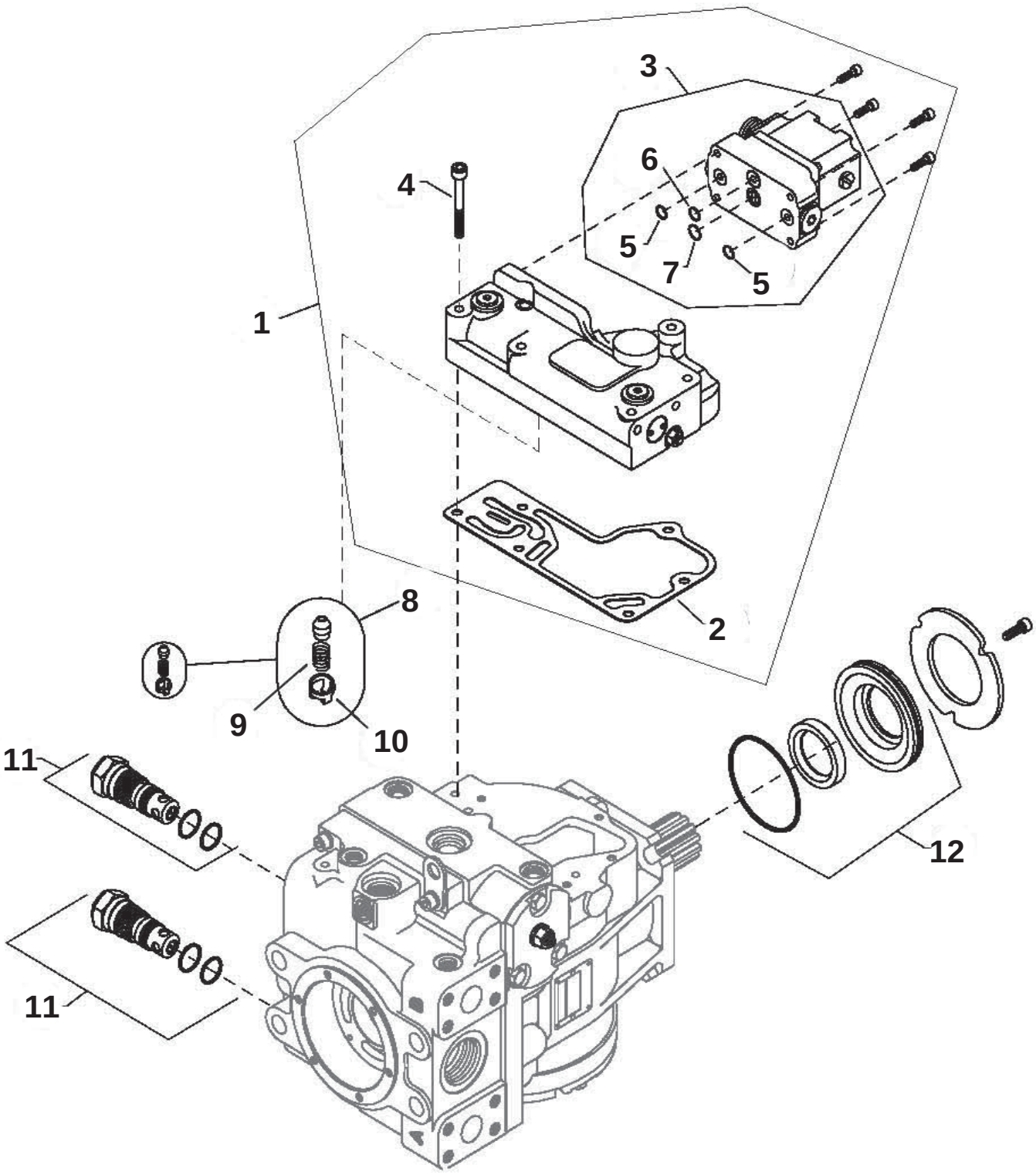


C-1 & C-2 PUMP
(99814)

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

C-3 PUMP
(29J94)

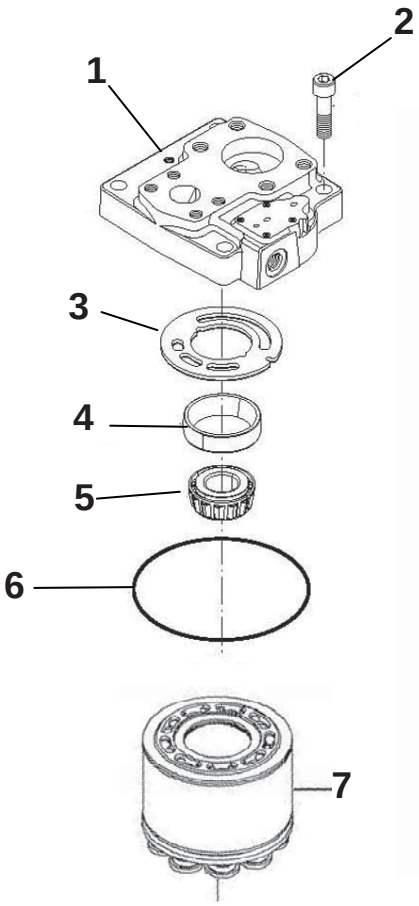


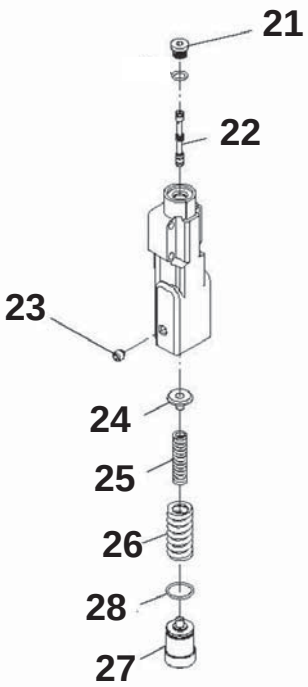
C-3 PUMP
(29J94)

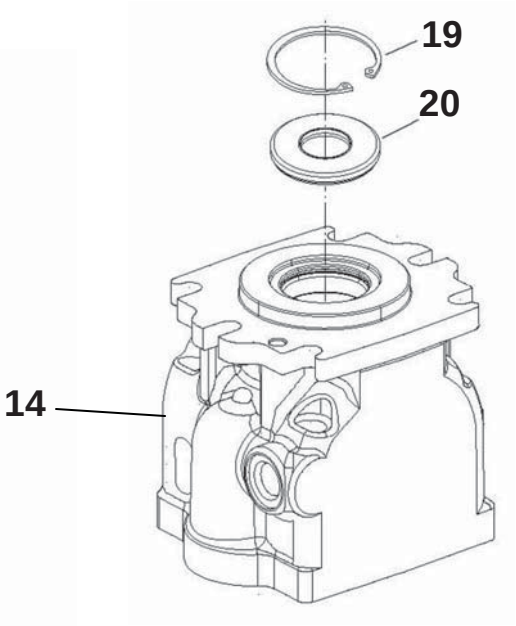
ITEM #	PART NO.	DESCRIPTION	QTY.
1	29J94-C13	EDC KIT	1
2	142125-C2	GASKET	1
3	125297-C4-1	PCP	1
4	142125-C4	SCREW	6
5	142125-C5	O-RING	2
6	142125-C6	O-RING	1
7	142125-C7	O-RING	1
8	142125-C8	CONTROL ORIFICE	1
9	142125-C9	SPRING	1
10	142125-C10	SPRING RETAINER	1
11	29J94-C10	MULTI-FUNCTION VALVE	2
12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

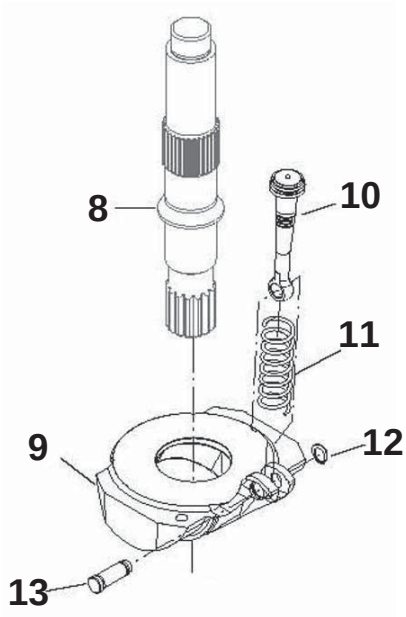
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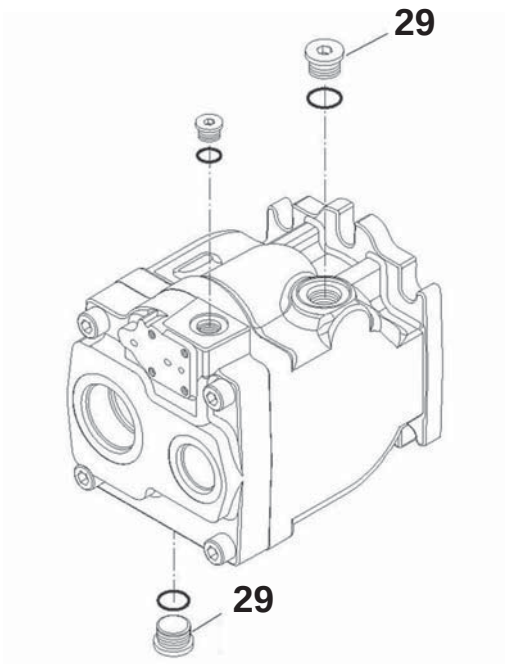
AUXILIARY PUMP
(211743-04)

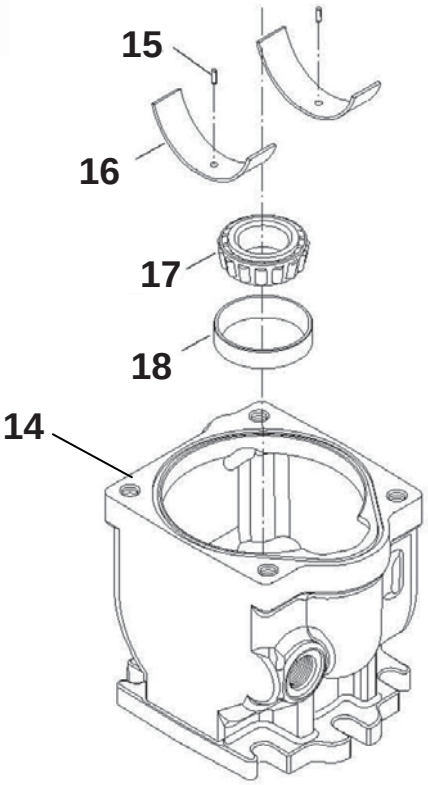










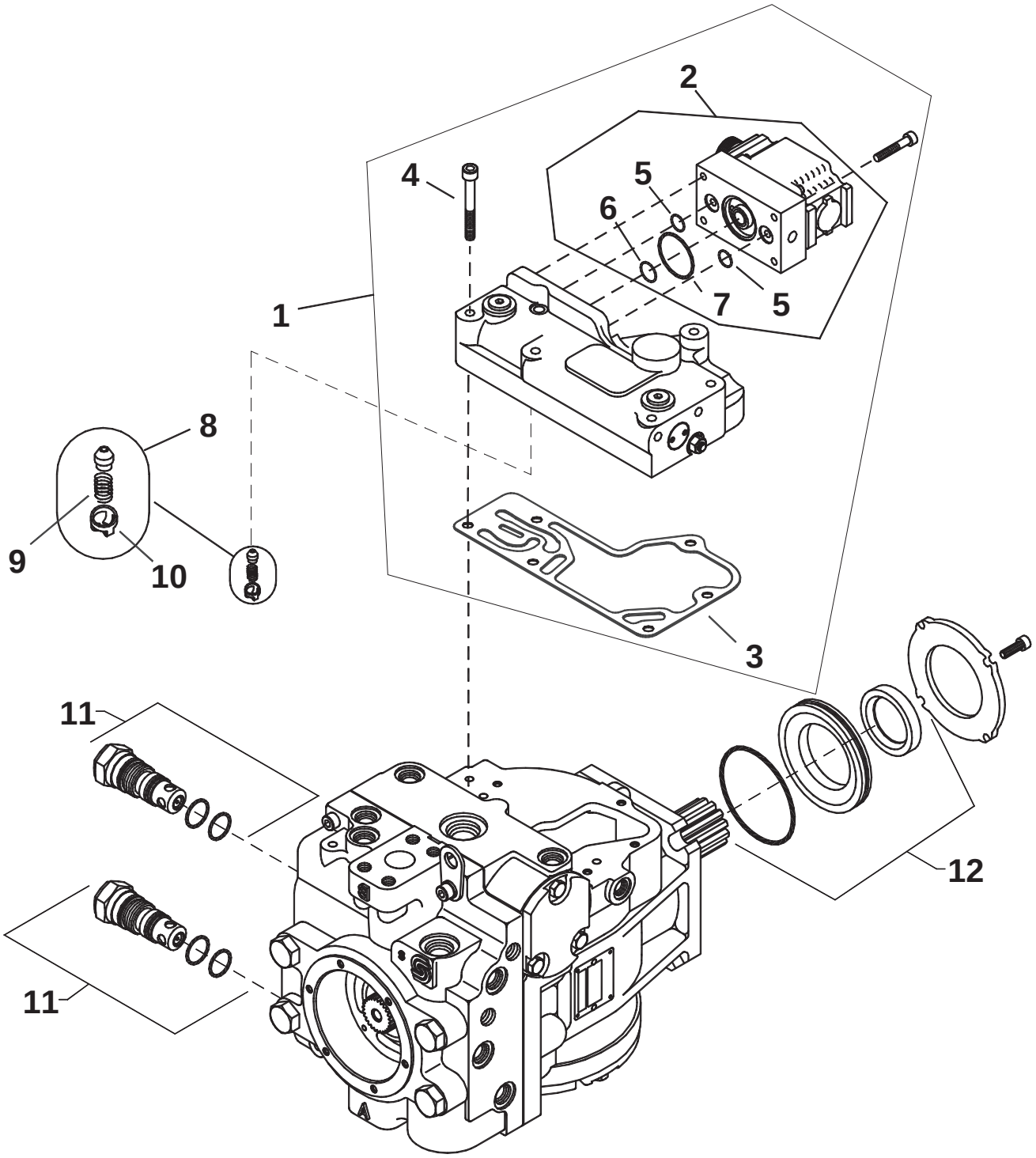


AUXILIARY PUMP
(211743-04)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	211743-04-C1	END CAP	1
2	211743-04-C2	SCREW - SOC. HD.	4
3	211743-04-C3	PLATE, VALVE	1
4	211743-04-C4	BEARING CUP	1
5	211743-04-C5	BEARING CONE	1
6	211743-04-C6	SEAL - ENDCAP	1
7	211743-04-C7	CYL. BLOCK ASSY.	1
8	211743-04-C8	SHAFT - PUMP	1
9	211743-04-C9	SWASHPLATE	1
10	211743-04-C10	SERVO ASSY.	1
11	211743-04-C11	SPRING, BIAS	1
12	211743-04-C12	RING-RTG. EXT.	1
13	211743-04-C13	PIN, HEADED	1
14	211743-04-C14	HOUSING	1
15	211743-04-C15	PIN, COILED	2
16	211743-04-C16	BEARING - JOURNAL	2
17	211743-04-C17	BEARING - CONE	1
18	211743-04-C18	BEARING - CUP	1
19	211743-04-C19	POISTNY KRUZOK	1
20	211743-04-C20	SHAFT SEAL	1
21	211743-04-C21	PLUG ASSY.	1
22	211743-04-C22	SPOOL CONTROL	1
23	211743-04-C23	SET SCREW	1
24	211743-04-C24	GUIDE - PC SPRING	1
25	211743-04-C25	SPRING - PC INNER	1
26	211743-04-C26	SPRING - PC OUTER	1
27	211743-04-C27	PLUG, PC ADJUSTING	1
28	211743-04-C28	O-RING	1
29	211743-04-C29	PLUG ASSY.	2
30			

JR-L-045B-PC-15-NN-NN-N-3-C3N3-A6N-NNN-NNN-NNN

PROPEL PUMP
(219675-04)



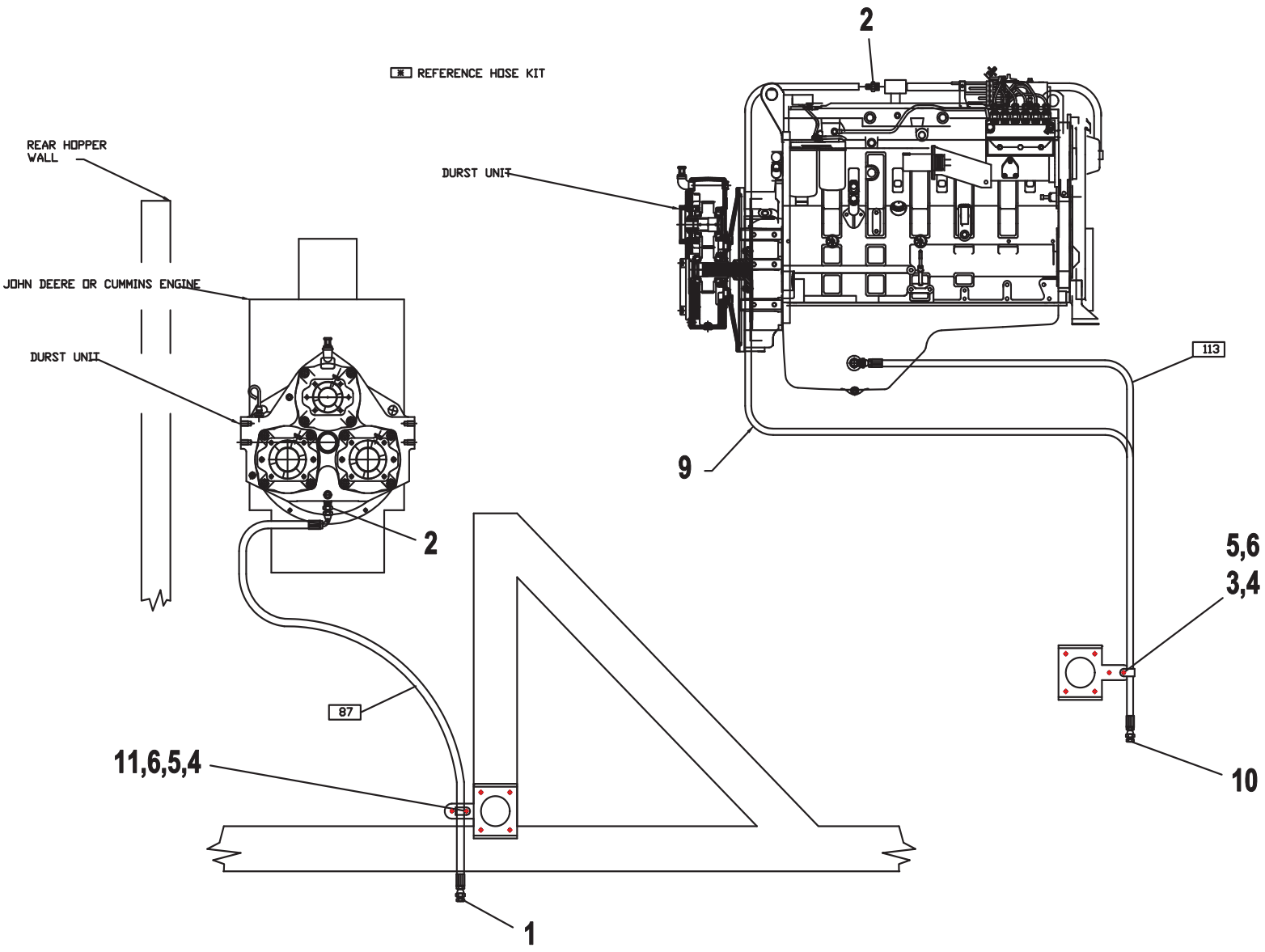
PROPEL PUMP
(219675-04)

ITEM #	PART NO.	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	
13			
14			
15			

CODE: 90L100-KA-1-CE-60-5-4-51-G-03-GBA-42-42-24

DURST OIL DRAIN ASSEMBLY
(142903-01)

NEXT PAGE



SIDE VIEW

DURST OIL DRAIN ASSEMBLY
(142903-01)

INSTALLATION INSTRUCTIONS

1) TO INSTALL DRAIN HOSE, REMOVE SQUARE PLUG FROM THE BOTTOM OF THE DURST UNIT. (A 6 QT. CONTAINER NEEDS TO BE PROVIDED TO CATCH THE OIL HELD IN THE DURST UNIT).
2) AFTER THE CASING IS DRAINED CLEAN THE ORIFICE OF ANY DEBRIS. INSTALL ITEM 2 IN THE THREADED OUTLET. (OPT. YOU MAY APPLY SOME FORM OF APPROVED SEALANT TO THE THREADS TO HELP PREVENT LEAKS).
3) ONCE ITEM 2 IS INSTALLED , CONNECT THE HOSE ASSEMBLY TO ITEM 2 (DO NOT APPLY ANY FORM OF THREAD SEALANT TO THE JIC THREADS) AFTER FASTENING THE HOSE ASSEMBLY TO ITEM 2. ROUTE THE DRAIN HOSE IN SUCH A MANNER THAT THE HOSE DOSE NOT COME IN CONTACT WITH ANY EDGES THAT ARE SHARP OR HOT. THE SUGGESTED ROUTE IS AS SHOWN IN THE VIEWS BELOW.
4) ATTACH ITEM 6 WITH ITEM 8 APPROXIMATELY 4'TO THE RIGHT OF THE VERTICAL TUBE FRAME ON THE HORIZONTAL MEMBER. RUN HOSE THRU CLAMP
5) INSTALL ITEM 1 IN ITEM 5 MAKE SURE IT IS SECURE INSTALL NEW FLUID IN THE DURST UNIT CHECKING TO MAKE SURE NOT TO OVER FILL THE UNIT
6) USE THE ITEMS 7 TO SECURE THE DRAIN HOSE AND KEEP MOVEMENT TO A MINIMUM

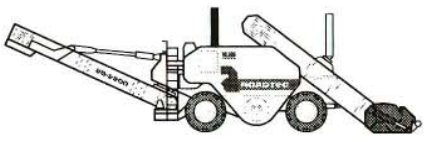
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	85393-04	8 JIC PLUG	1
2	83468-04	CONNECTOR - 8 JIC - 1/2" NPT MALE	2
3	83924	HEX BOLT - 3/8-16 X 1 1/2"	1
4	83056	LOCK WASHER - 3/8" SPRING STEEL	2
5	83055	HEX NUT - 3/8-16 GR8	2
6	20K38	CLAMP - 1 1/4" DIA. X 9/16" WTH.	2
7	83905-04	WIRE TIE - 1/4" X 14" NYLON	4
8	142805-04	GEAR DRIVE DRAIN TAG	1
9	91321-04	HOSE - 3/4" WATER	136"
10	83979-04	FIT - PLUG #12 SAE	1
11	84332	HEX BOLT - 3/8-16 X 1"	1

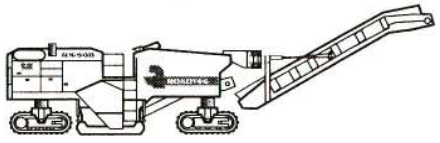
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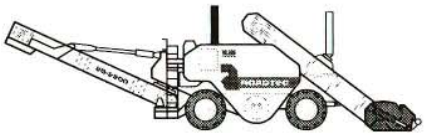
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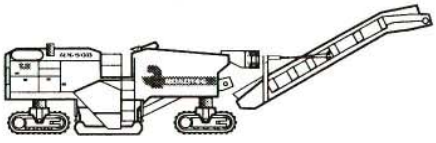
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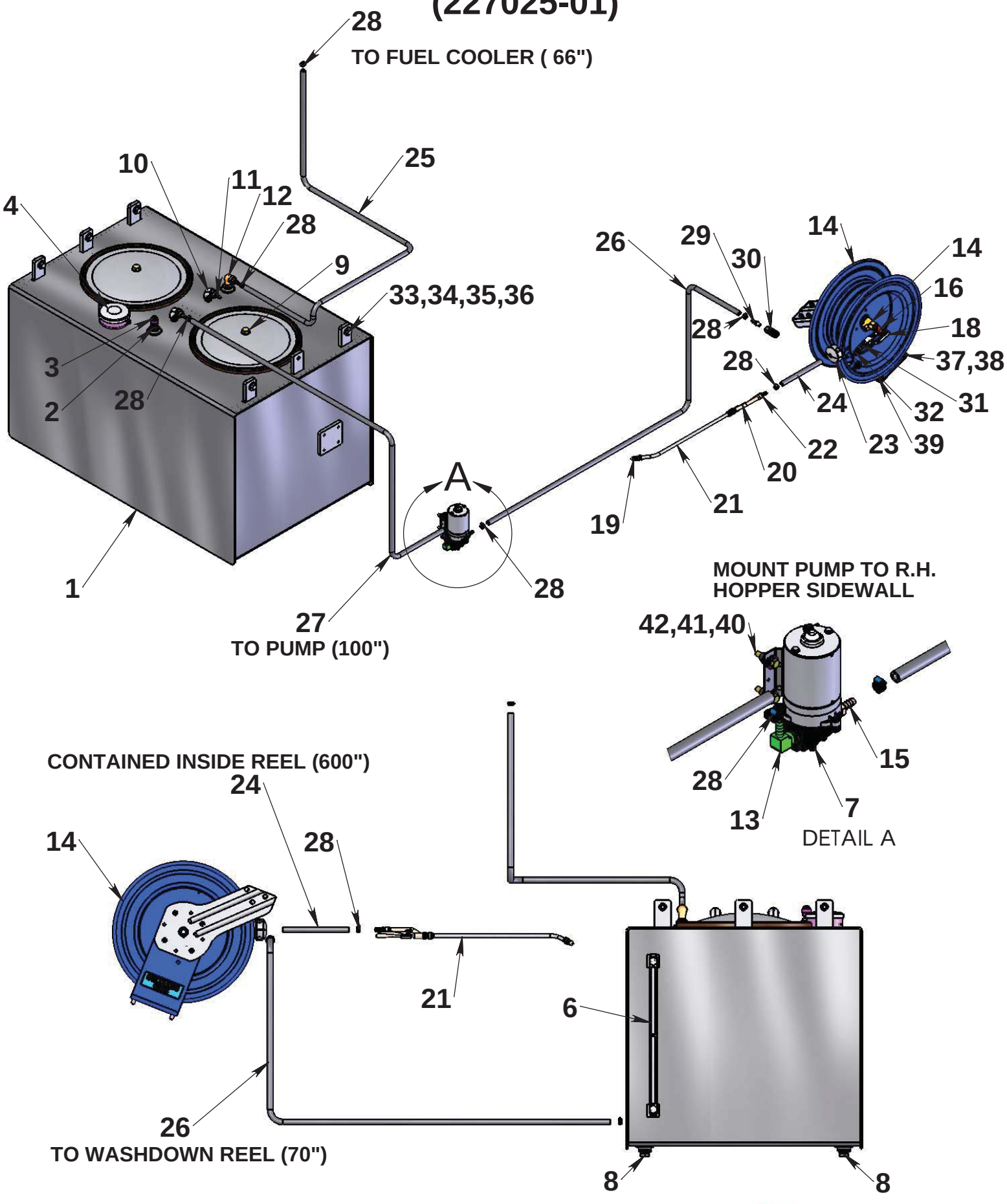
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SECTION 2 : FRAME ASSEMBLIES

ASSEMBLY	PART NO.	S/N	PAGE NO.
FUEL TANK & WASHDOWN	227025-01	1038,1044 & UP	2.1
MAINFRAME	231065-01	1091 & UP	2.3
FXS UNIT	224606-01		2.7
MIRROR	202080-01	640 & UP	2.8
DECAL KIT	230722-01	1091 & UP	2.9
PLATFORM & HOOD	227348-01	1048 & UP	2.21
FOLDING HOOD RAILS	224025-01		2.25
OPERATORS STATION	227349-01	1048 & UP	2.27
HOOD INSULATION	224744-01	993 & UP	2.30
STROBE LIGHT	214370-01		2.31

ASSEMBLY ~ FUEL TANK (227025-01)

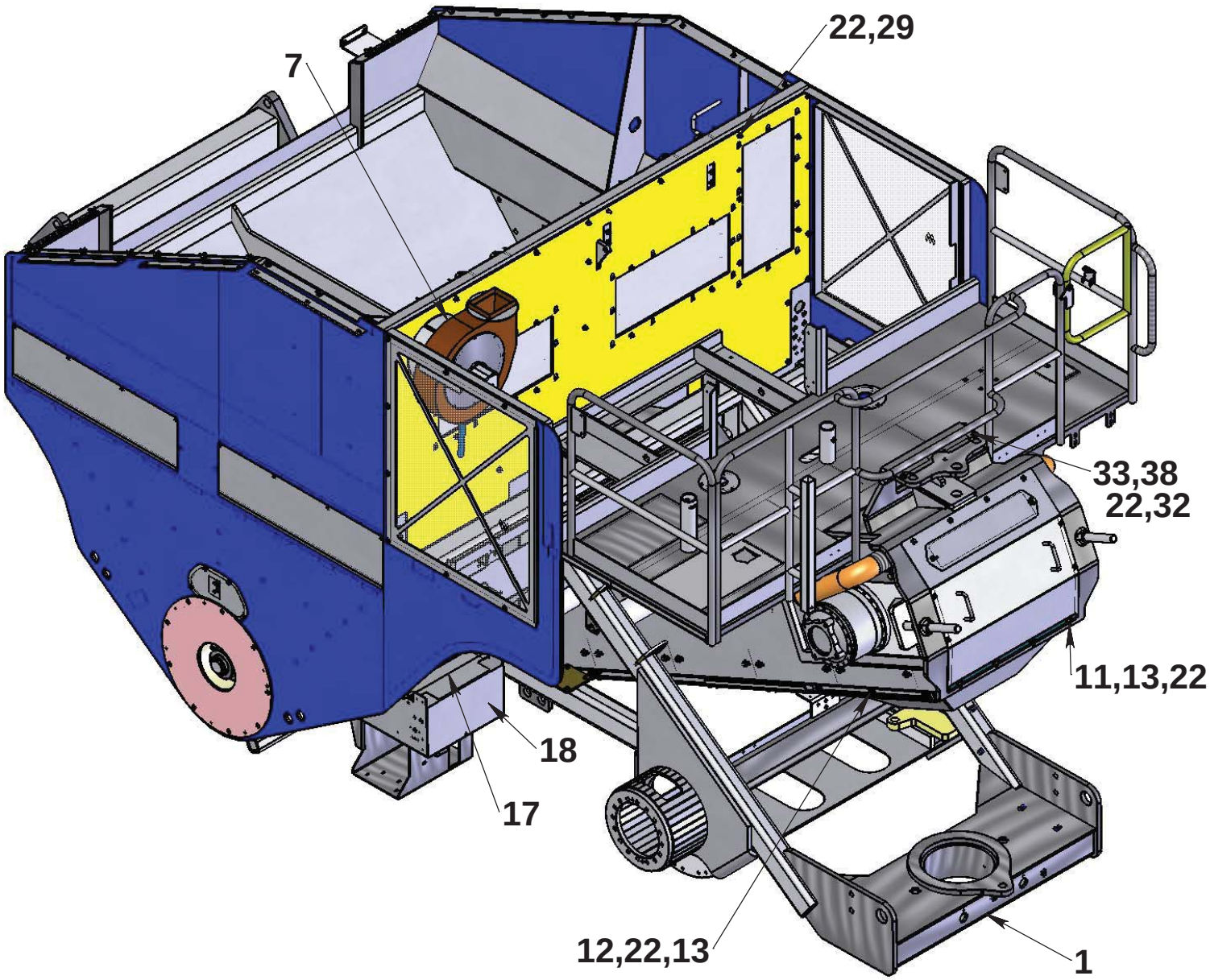


ASSEMBLY ~ FUEL TANK
(227025-01)

ITEM #	PART #	DESCRIPTION	QTY
1	217334-01	WELDMENT ~ FUEL TANK	1
2	89608	FIT * 1/2"NPTM X 1/4"NPTF RED.BUSH.	1
3	27X25	VALVE * FUEL TANK VENT 15-20 PSI	1
4	98027	ENGINE ~ FUEL CAP (NON-VENTED)	1
5	803546	FILTER * STRAINER	1
6	29L61	GAUGE * FUEL TANK LEVEL SIGHT TUBE	1
7	226681-04	PUMP * 70 PSI SPRAYDOWN	1
8	97032	PIPE PLUG ~ 3/4" NPT HEX HEAD	2
9	208510-04	COVER * 16" RESERVOIR	2
10	205698-04	FIT * 1/2 90 NPT FEMALE A576 STL	2
11	91594	HOSE BARB * 1/2" NPT - 3/8" BARB	3
12	138868-04	PLUMB*1/2 NPT 90 STREET A576	1
13	201214-04	FIT * BRASS 3/8 NPT X 3/8 BARB 90	1
14	131616-04	HOSE REEL * HEAVY DUTY 35'	1
15	80187	HOSE BARB * 3/8 NPT X 3/8 BARB	1
16	85466-04	FIT * ELBOW 6 JIC X 3/8 NPT 90 DEG	1
17	86622-04	FIT * 1/4 NPT M - 6 JIC FEM SWIVEL	1
18	89010-04	VALVE*2 WAY BALL(1/4 NPT)	1
19	128843	SPRAY NOZZLE 289-4590	1
20	128842	HAND SHUT OFF	1
21	128844	WAND-EXT 18" 318-5238	1
22	80553-04	HOSE BARB * BARBED 1/8" X 3/8"	1
23	145619-04	RUBBER * RUBBER STOP	1
24	227025-01-31	HOSE, 3/8 FUEL & WATER X 600" LG.	1
25	227025-01-32	HOSE, 3/8 FUEL & WATER X 66" LG.	1
26	227025-01-33	HOSE, 3/8 FUEL & WATER X 70"	1
27	227025-01-34	HOSE, 3/8 FUEL & WATER X 100"	1
28	45228	CLAMP * 3/8"- 1/2 WORM	7
29	80349-04	HOSE BARB * 1/4"NPT X 3/8" BARB	1
30	85947-04-C3	KIT * FEMALE TESTPORT DISCONNECT	1
31	86170-04	FIT * ADAPTER 6 JIC -1/4 NPT M.	1
32	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
33	83288	NUT * 1/2"-13 HEX GRADE 8	5
34	83781-04	WASHER * FLAT 1/2" STEEL	5
35	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	5
36	93144	BOLT * HEX 1/2"-13 X 1 1/2"	5
37	83757	WASHER ~ FLAT 3/8 STEEL	4
38	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
39	84332	BOLT * HEX 3/8"-16 X 1"	4
40	84444	WASHER * FLAT 1/4" STEEL	4
41	83065	WASHER ~ LOCK 1/4" SPRING STEEL	4
42	90763	BOLT * HEX 1/4"-20 X 1 1/4"	4

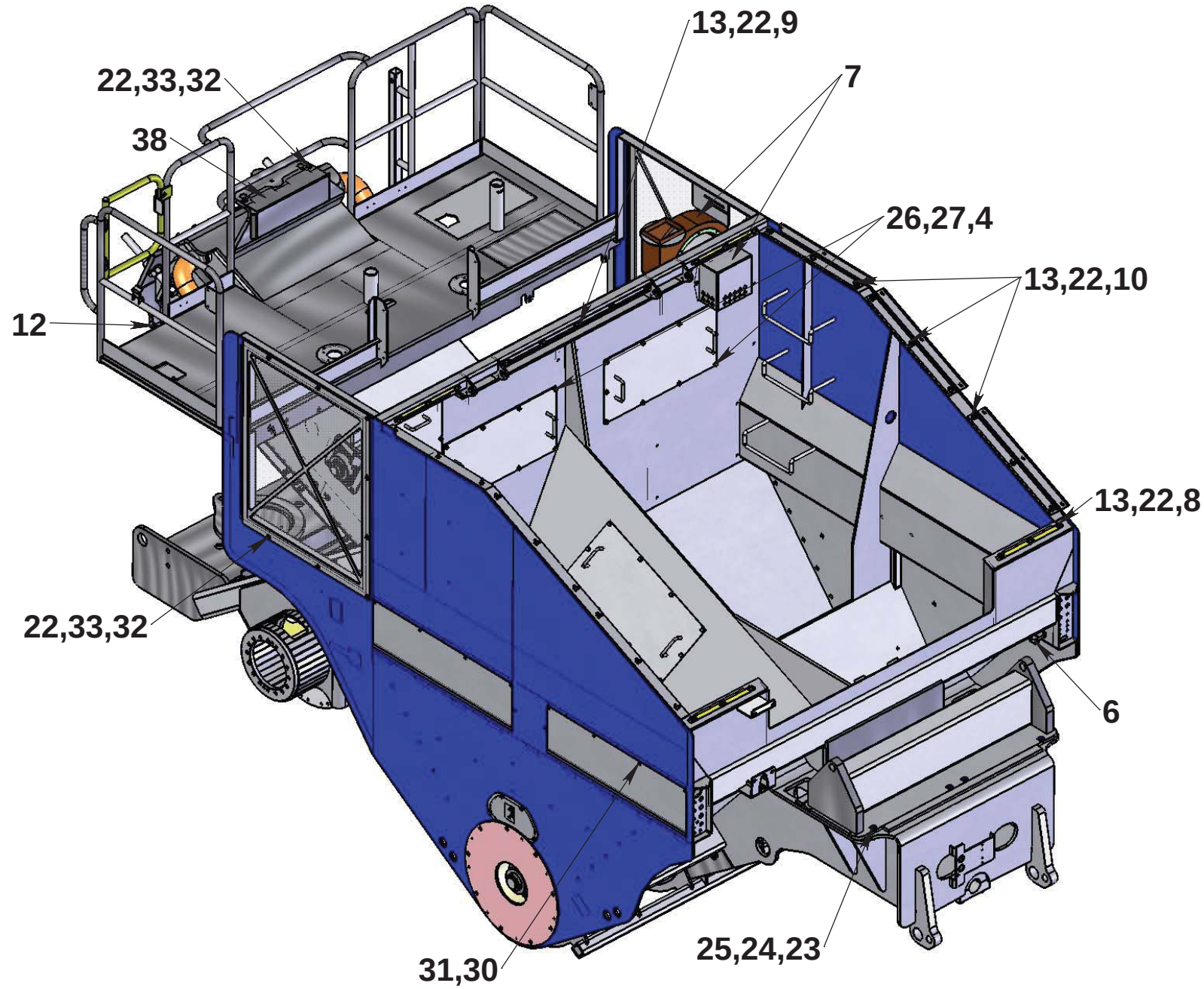
ASSEMBLY - MAINFRAME
(231065-01)

NEXT PAGE



PREVIOUS PAGE

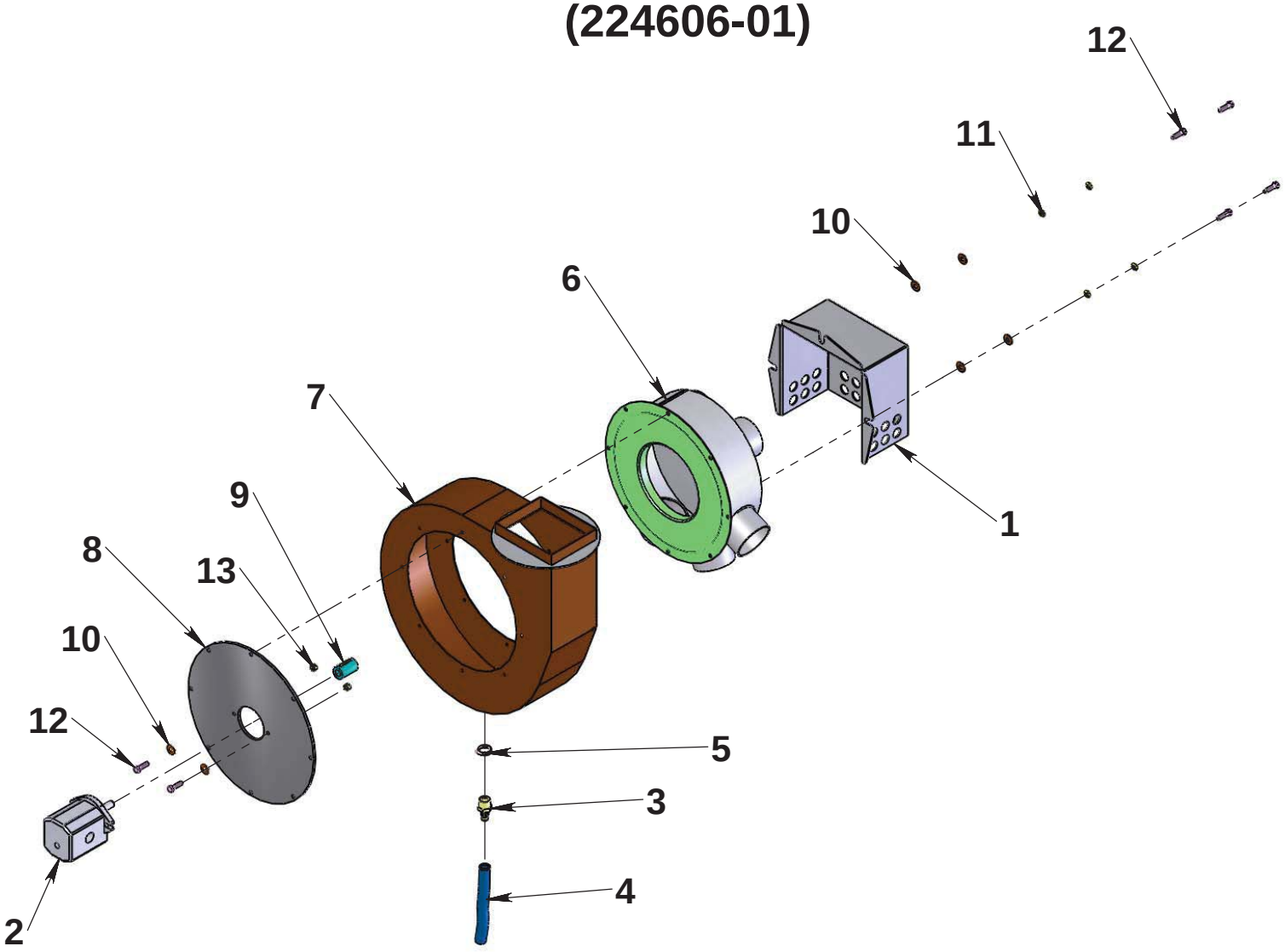
ASSEMBLY - MAINFRAME (231065-01)



ASSEMBLY - MAINFRAME
(231065-01)

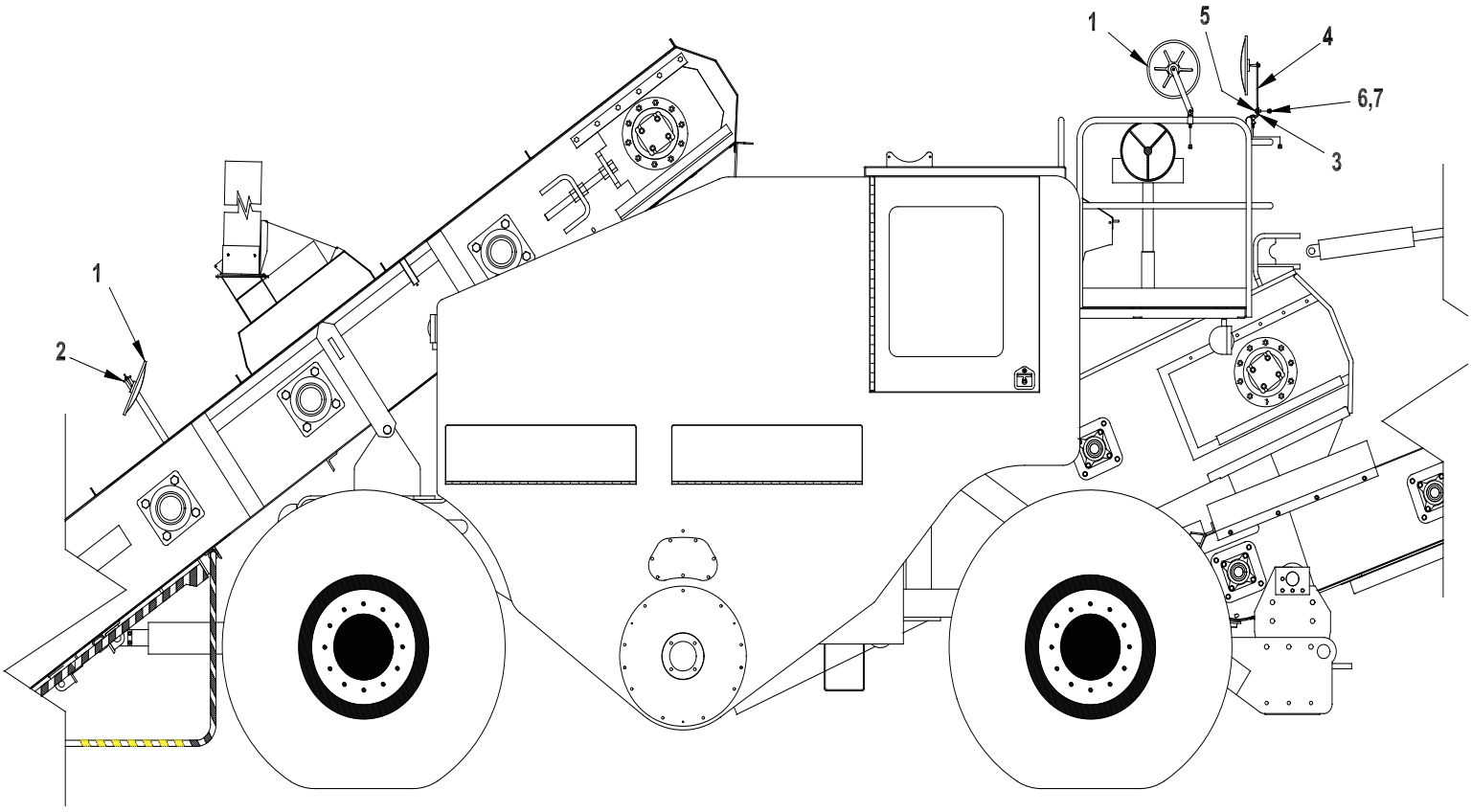
ITEM #	PART #	DESCRIPTION	QTY
1	231064-01	WELDMENT-MAINFRAME	1
2	218728-01	WELDMENT-RIGID C1 PIVOT	1
3	226216-01-3	MOLDING * 1/2" INTERLOCK 10"	1
4	133318-01	WELDMENT-ACCESS COVER	5
5	223740-01	INSULATION * REAR WALL	1
6	203794-04	DETAIL-HORN BRACKET-SB-2500XL	1
7	224606-01	ASSEMBLY - FXS	1
8	224214-03	DETAIL-CANVAS CLAMP BAR 19 1/2"	4
9	200146-03	DETAIL-CANVAS CLAMP BAR 44 1/4"	1
10	204707-03	DETAIL-CANVAS CLAMP BAR 30"	6
11	223756-03	DETAIL-CANVAS CLAMP BAR, 34 1/2"	1
12	147387-03	DETAIL-CANVAS CLAMP BAR 34"	2
13	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	45
14	226216-01-17	INSULATION * 1" ID HOSE SLEVE (NOT SHOWN) 210"	1
15	226216-01-18	INSULATION * 1 1/2" ID HOSE SLEVE (NOT SHOWN) 450"	1
16	226216-01-19	INSULATION * 2 1/2" ID HOSE SLEEVE (NOT SHOWN) 420"	1
17	223825-03	DETAIL-VALVE COVER	1
18	200626-03	DETAIL-BATTERY BOX LID-SB-2500C	1
19	128390	GREASE NIPPLE COVER (RED OR BLACK) (NOT SHOWN)	65
20	83657-04	WIRE TIE * 1/8" X 7" NYLON (NOT SHOWN)	150
21	83905-04	WIRE TIE * 1/4" X 14" NYLON (NOT SHOWN)	150
22	83757	WASHER ~ FLAT 3/8 STEEL	104
23	95930	BOLT * HEX 3/4"-10 X 2 3/4"	8
24	95937	WASHER * FLAT 3/4" HARD	8
25	88164	NUT ~ 3/4"-10 LOCK GRADE 8	8
26	86164	BOLT * HEX 1/2"-13 X 1 1/4"	50
27	83317	WASHER * LOCK 1/2" SPRING STEEL	50
28	223721-01	COVER*C2 DISCHARGE (NOT SHOWN)	1
29	83055	NUT * 3/8-16 HEX GRADE 8	41
30	89988-04	BOLT * HEX 1/4"-20 X 3/4"	16
31	83065	WASHER ~ LOCK 1/4" SPRING STEEL	16
32	84332	BOLT * HEX 3/8"-16 X 1"	18
33	83056	WASHER ~ LOCK 3/8 SPRING STEEL	18
34	97316	BOLT * HEX 1"-8 X 3"	4
35	83427	WASHER ~ LOCK 1" SPRING STEEL	4
36	10S89	WASHER ~ FLAT 1" A325	4
37	144258-01R	COVER * RH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
38	201251-03	DETAIL-C-3 PIVOT GUARD-SB-2500C	1
39	205446-01	COVER * OPERATORS ACCESS CANVAS (NOT SHOWN)	1
40	144258-01L	COVER * LH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
41	226216-01-41	TRIM * 5/8" BULB X 1/8" EDGE TOP MOUNT (NOT SHOWN) 165"	1
42	226216-01-42	TRIM * 3/4" BULB X 1/4" EDGE SIDE MOUNT (NOT SHOWN) 42"	1

ASSEMBLY - FXS
(224606-01)



ITEM #	PART #	DESCRIPTION	QTY
1	146685-02	WELDMENT-C2 SUCTION COVER-1500B	1
2	134229-04	MOTOR * HYDRAULIC 1.03 CID (SUNDST)	1
3	136925	BARB * 3/4 NPT X 3/4 HOSE	1
4	222724-01-46	HOSE * 3/4" WATER (BLACK) (NOT TO SCALE) 96"	1
5	80105	CLAMP * 3/4" HOSE	1
6	224567-01	WELDMENT-BLOWER SHROUD-1500/2500	1
7	146487-03	WELDMENT-BLOWER HOUSING-SB-1500B	1
8	214203-03	DETAIL-FUME EXTRACTION MOTOR MOUNT	1
9	130665-04	BUSHING & KEY	1
10	83757	WASHER ~ FLAT 3/8 STEEL	6
11	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
12	96476	BOLT * HEX 3/8"-16 X 1 1/4"	6
13	92235	NUT ~ 3/8"-16 LOCK GRADE 8	2

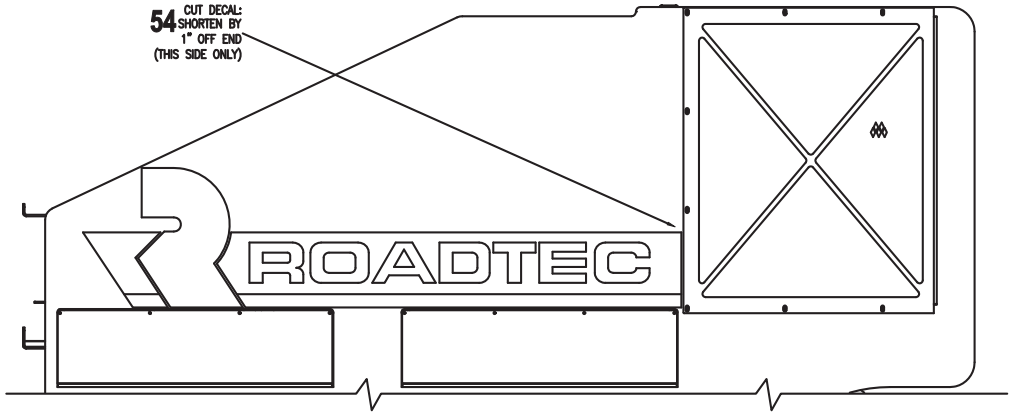
MIRROR ASSEMBLY
(202080-01)



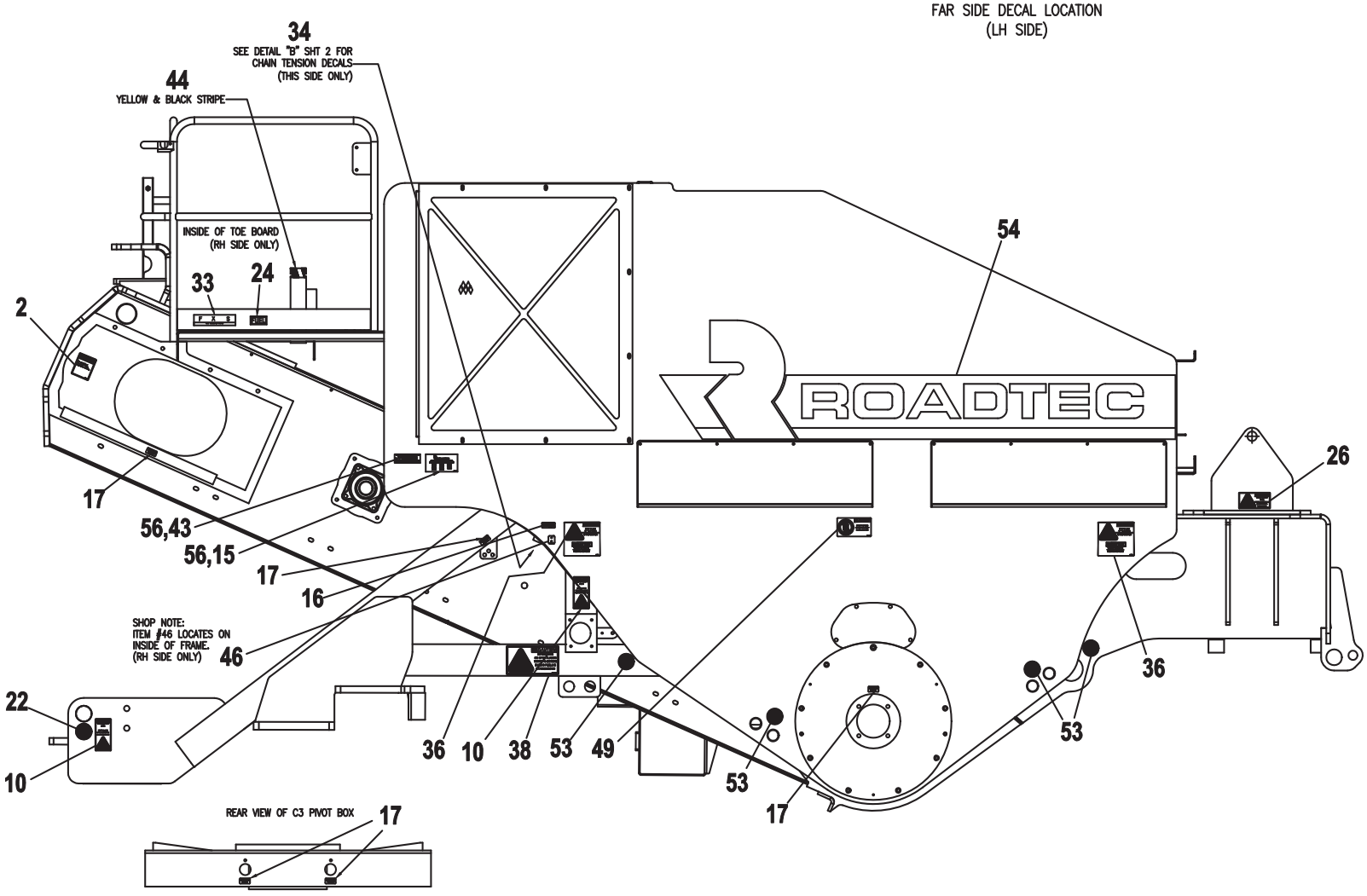
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	133459-04	12" DIA. ROUND MIRROR	6
2	201210-03	C-1 MIRROR MOUNT WLDMT.	2
3	87339-C4	KIT - ANGLE CLIP	4
4	133460-04	MIRROR MOUNTING ARM	REF
5	96476	HEX BOLT - 3/8-16 X 1 1/4" GR8	4
6	83056	LOCK WASHER - 3/8" SPRING STEEL	8
7	83055	HEX NUT - 3/8-16 GR8	8
8	87339-C3	KIT - 1" CLAMP (DISCARD SUPPLIED BOLT)	4
9	87339-C6	CARRIAGE BOLT - 3/8" X 2"	4
10	83757	FLAT WASHER - 3/8" STEEL	8

SB-2500D DECAL KIT
(230722-01)

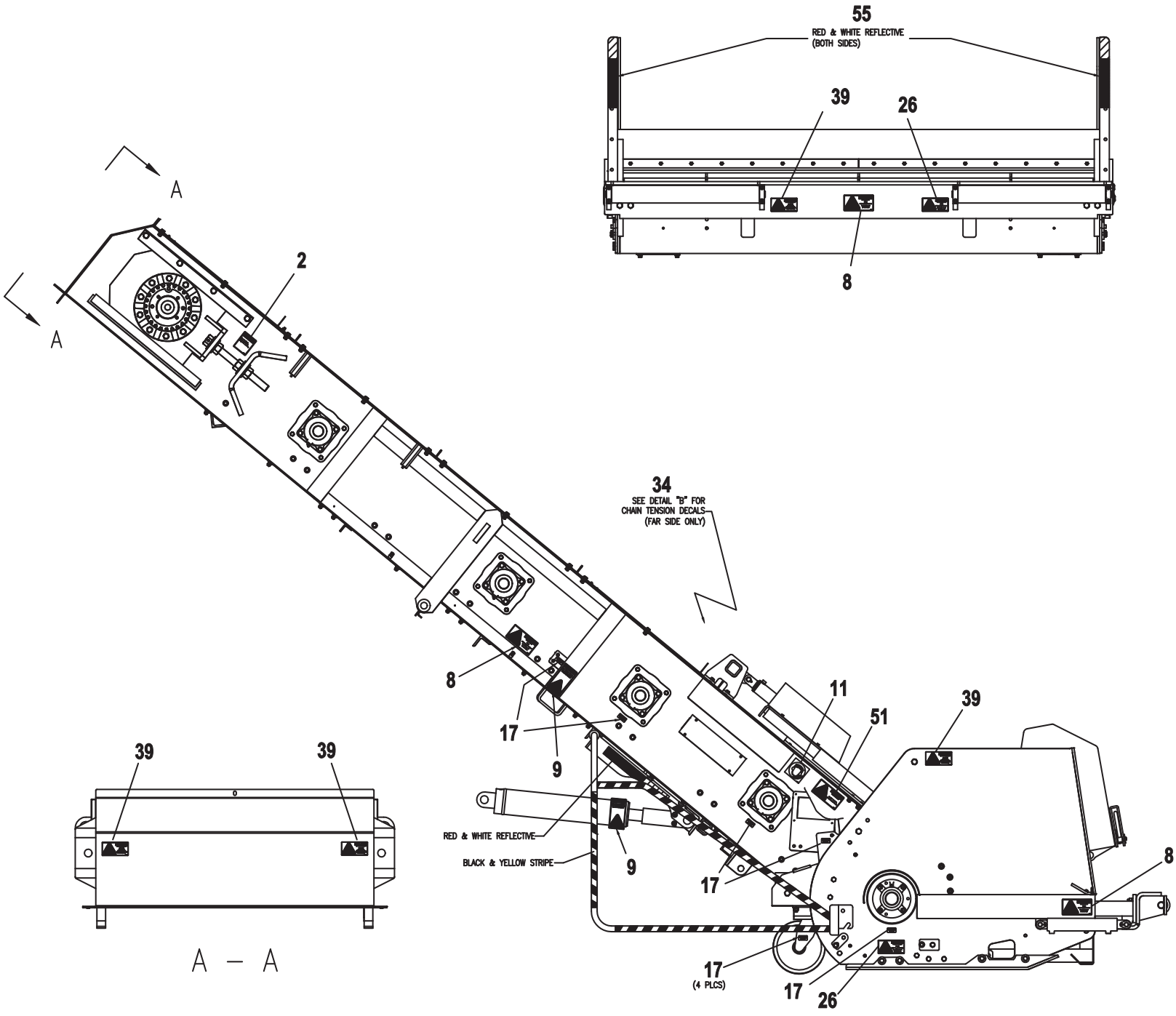
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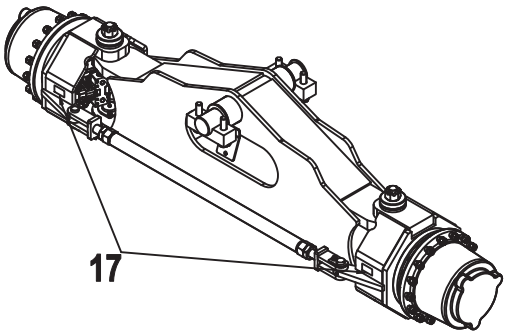
FAR SIDE DECAL LOCATION
(LH SIDE)



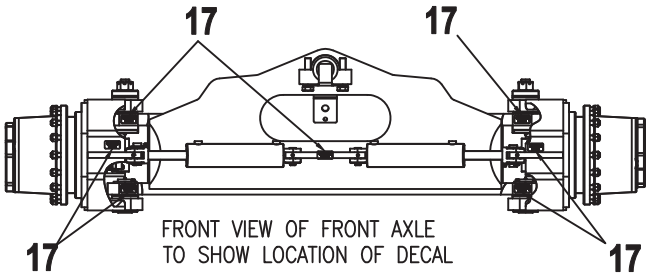
SB-2500D DECAL KIT
(230722-01)



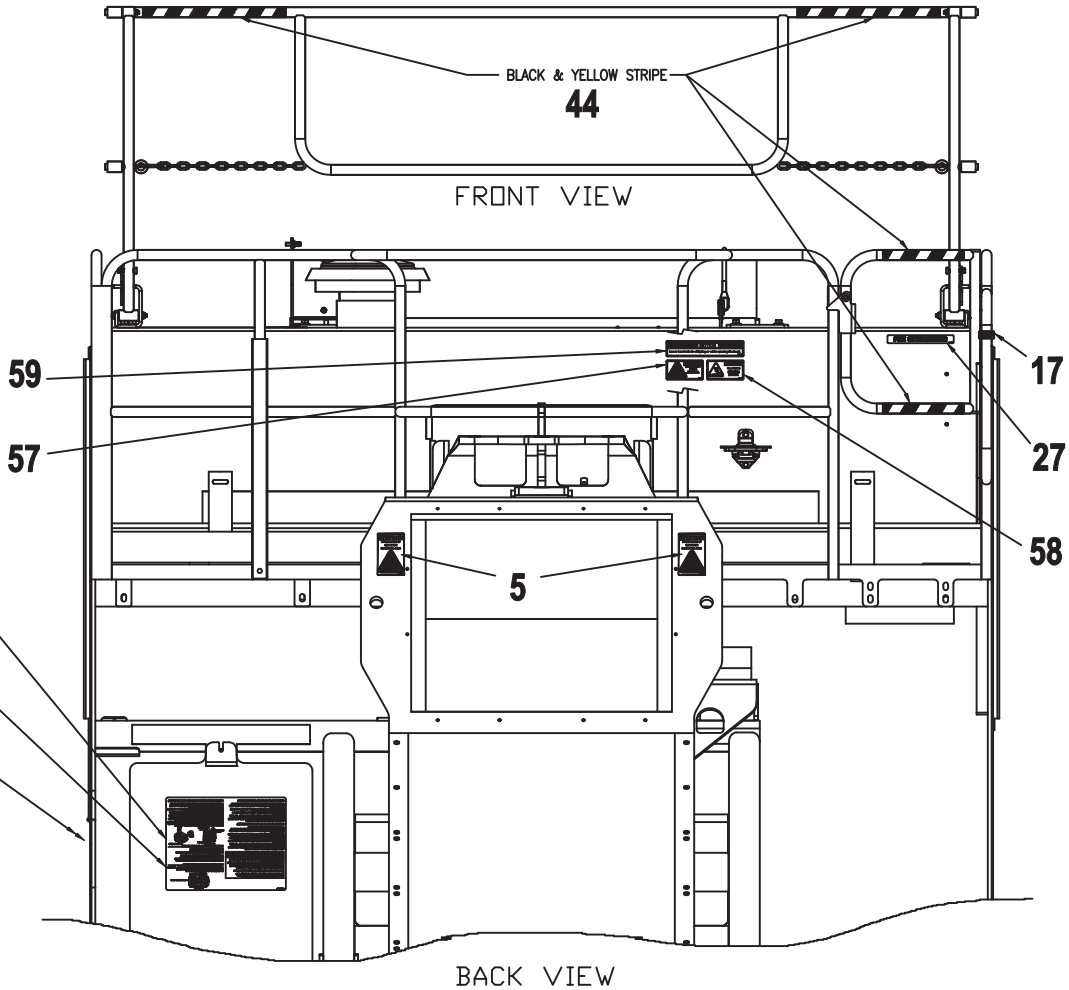
SB-2500D DECAL KIT
(230722-01)



ISO VIEW BACK OF FRONT AXLE



FRONT VIEW OF FRONT AXLE
TO SHOW LOCATION OF DECAL



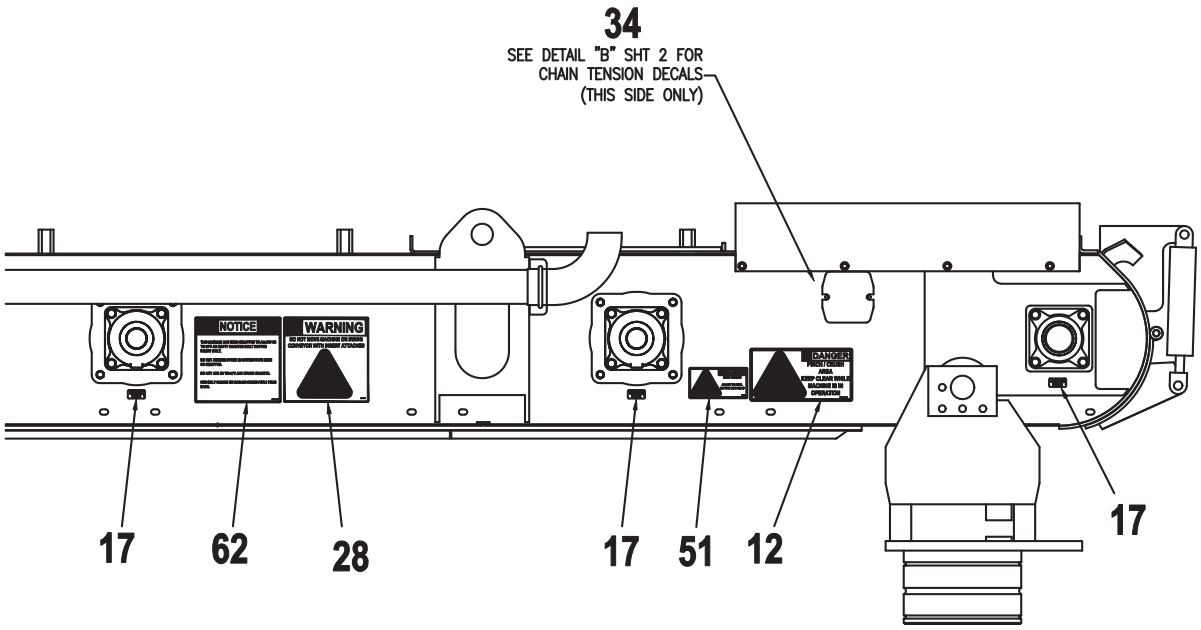
FRONT VIEW

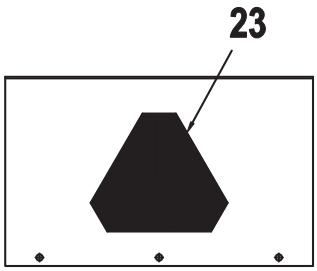
BACK VIEW

SHOP NOTE: HAND PUMP INSTRUCTION DECAL ATTACHES ON THE INSIDE SURFACE OF THE VALVE COVER.

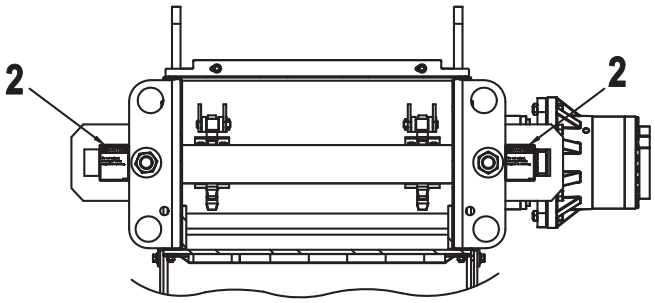
42
UNDER VALVE COVER
LOCATE DECALS
(NOT SHOWN)

SB-2500D DECAL KIT
(230722-01)

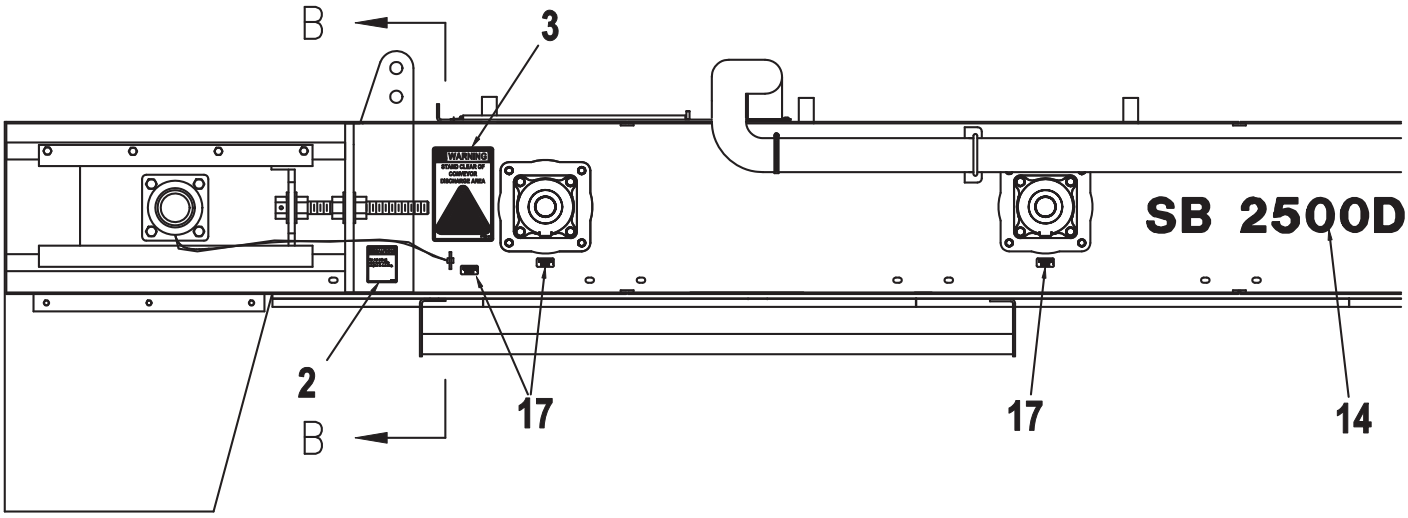




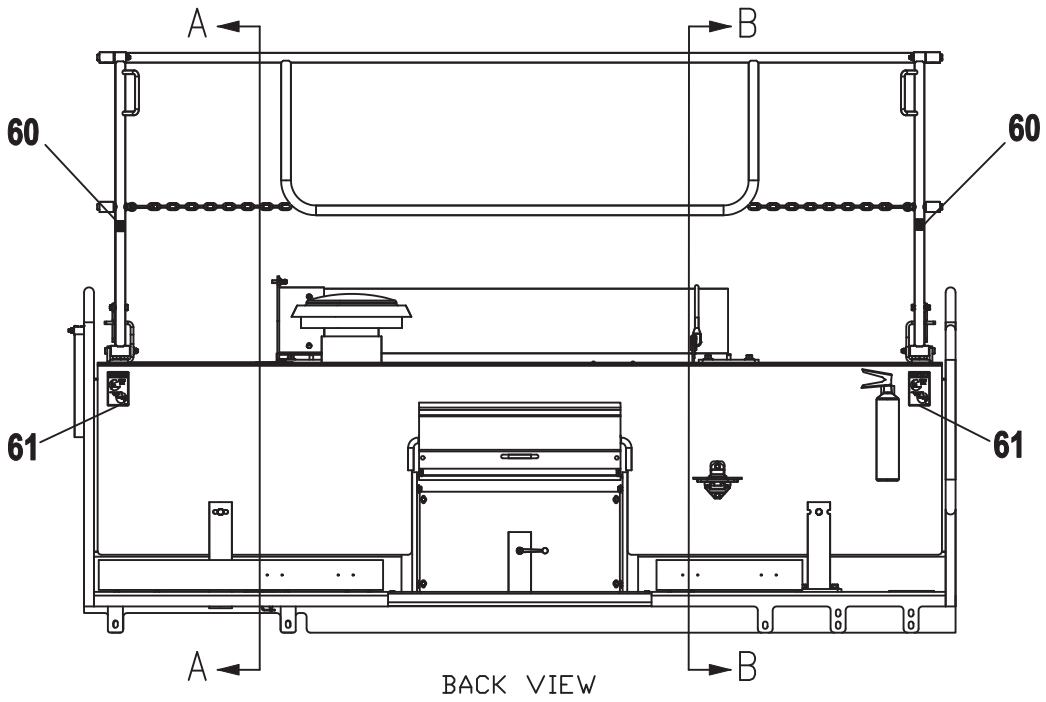
END VIEW



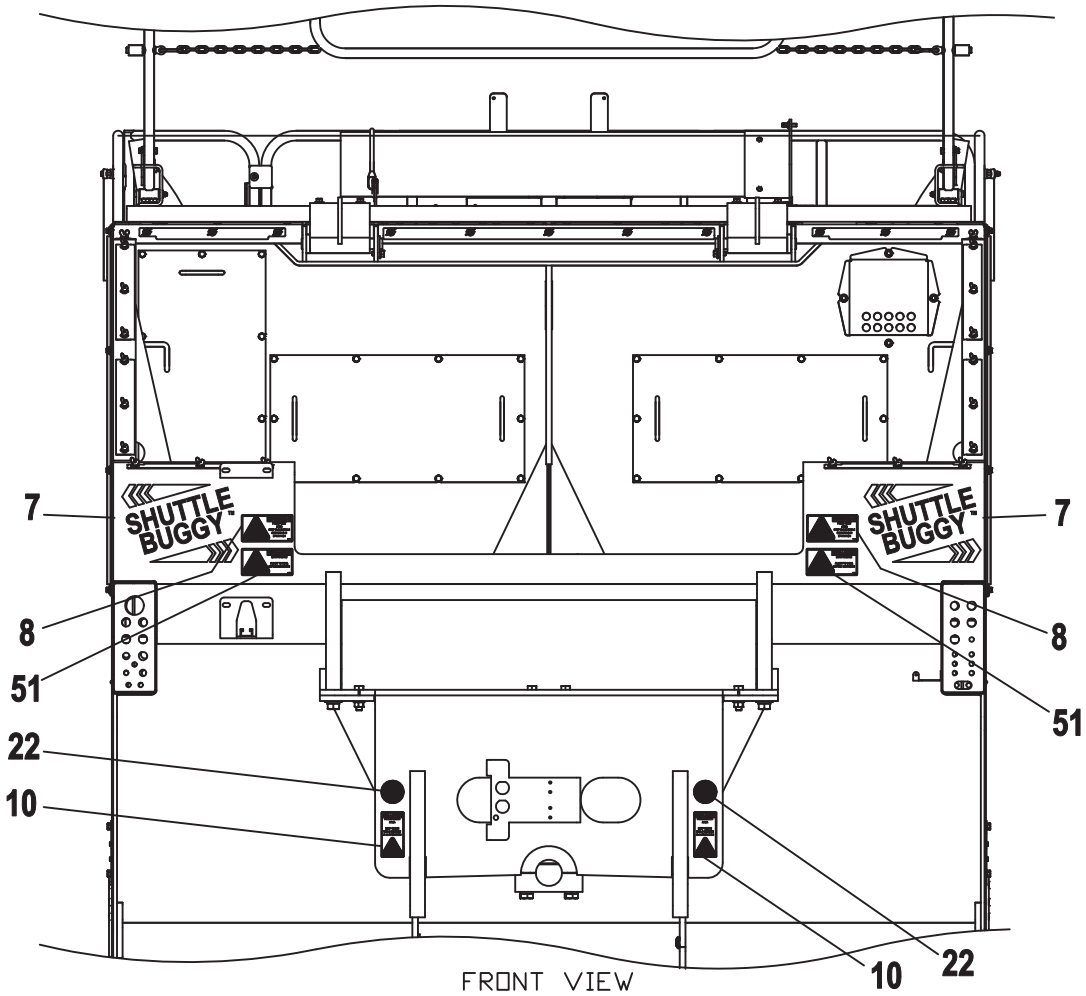
B – B



SB-2500D DECAL KIT
(230722-01)

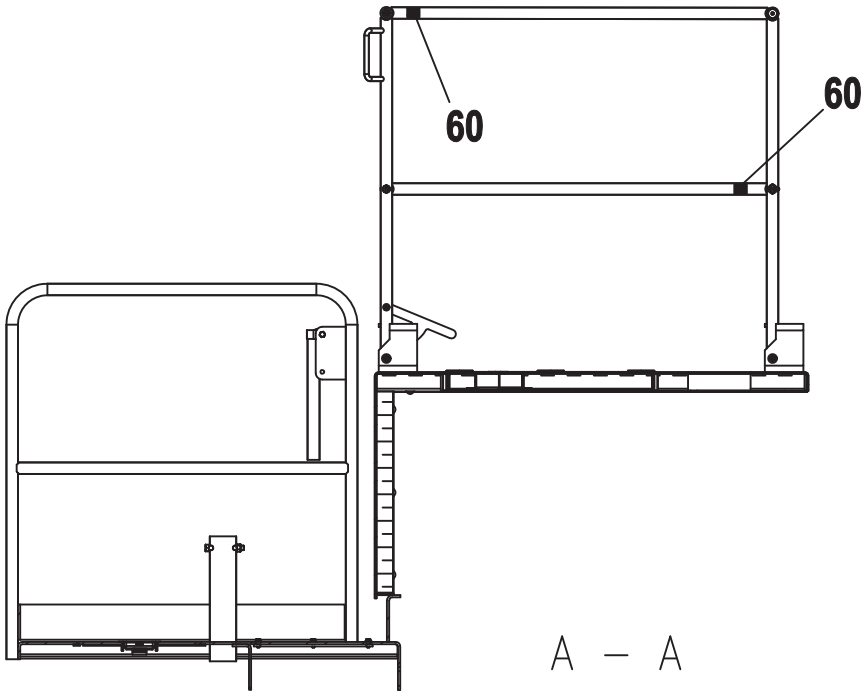


BACK VIEW

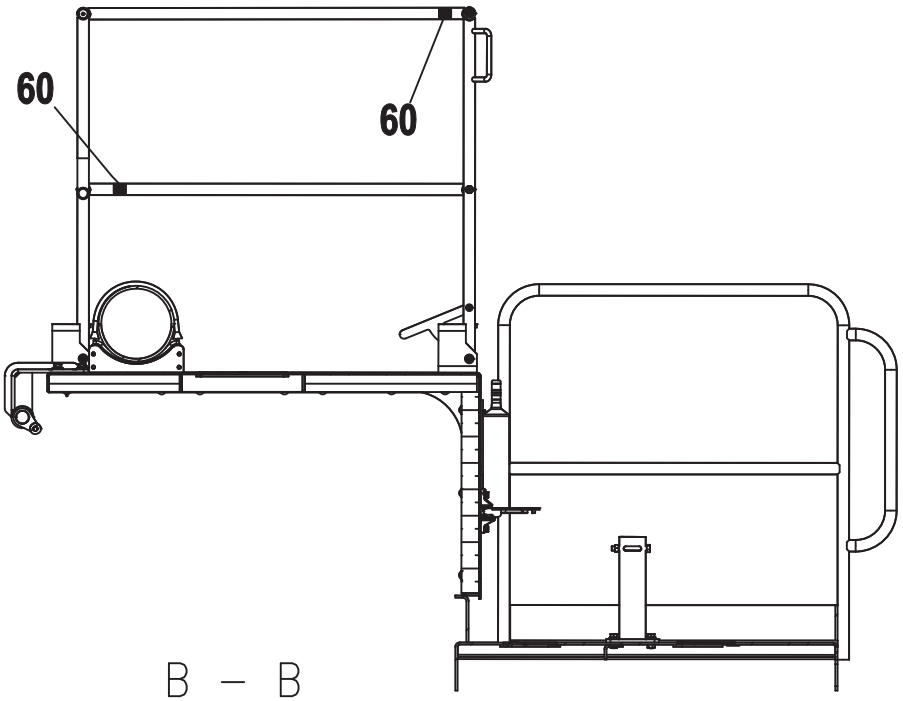


FRONT VIEW

SB-2500D DECAL KIT
(230722-01)

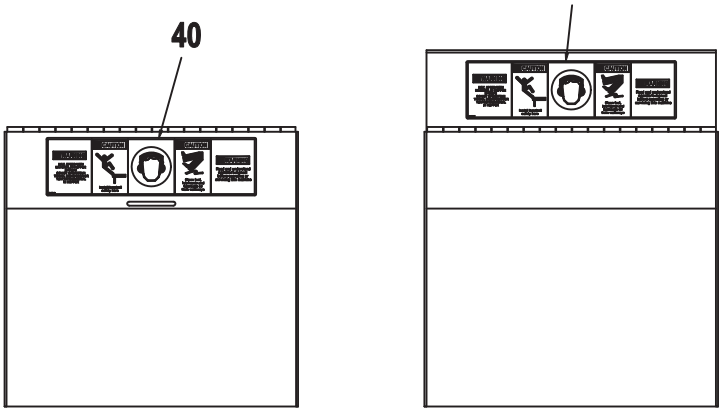


A – A



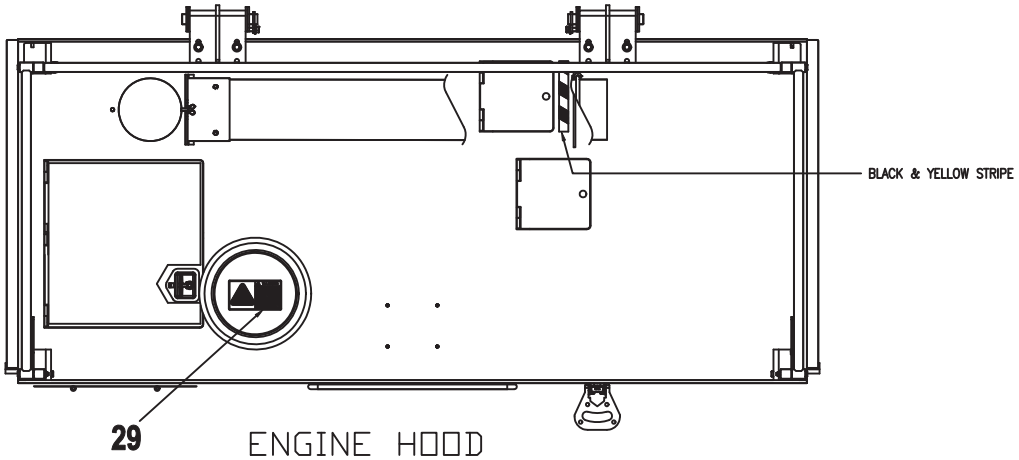
B – B

SB-2500D DECAL KIT
(230722-01)

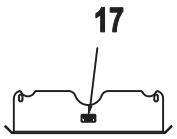


OUTSIDE OF LID INSIDE OF LID

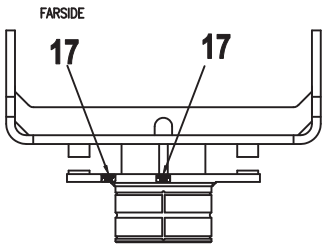
CENTER CONSOLE
NTS



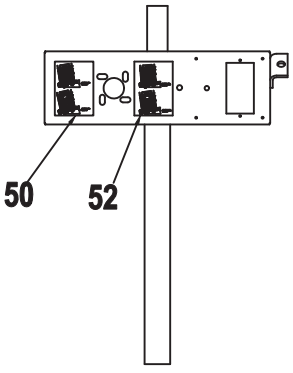
ENGINE HOOD



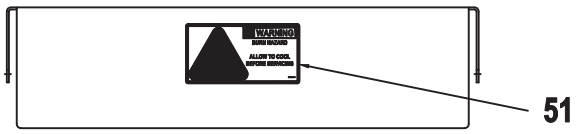
DETAIL C-3 PIVOT GUARD



REAR VIEW OF
C3 CONVEYOR PIVOT

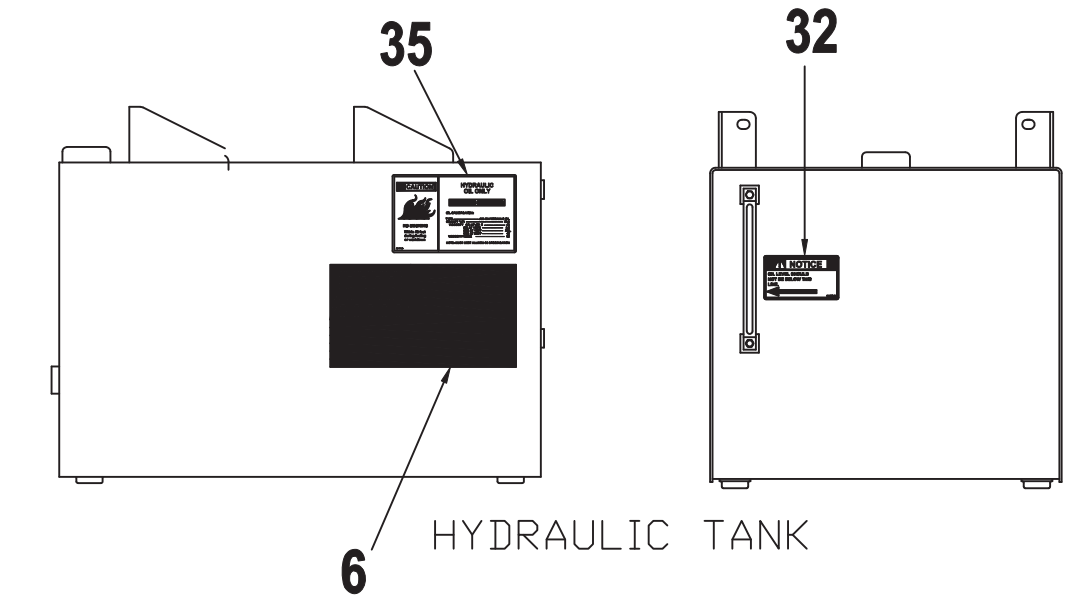


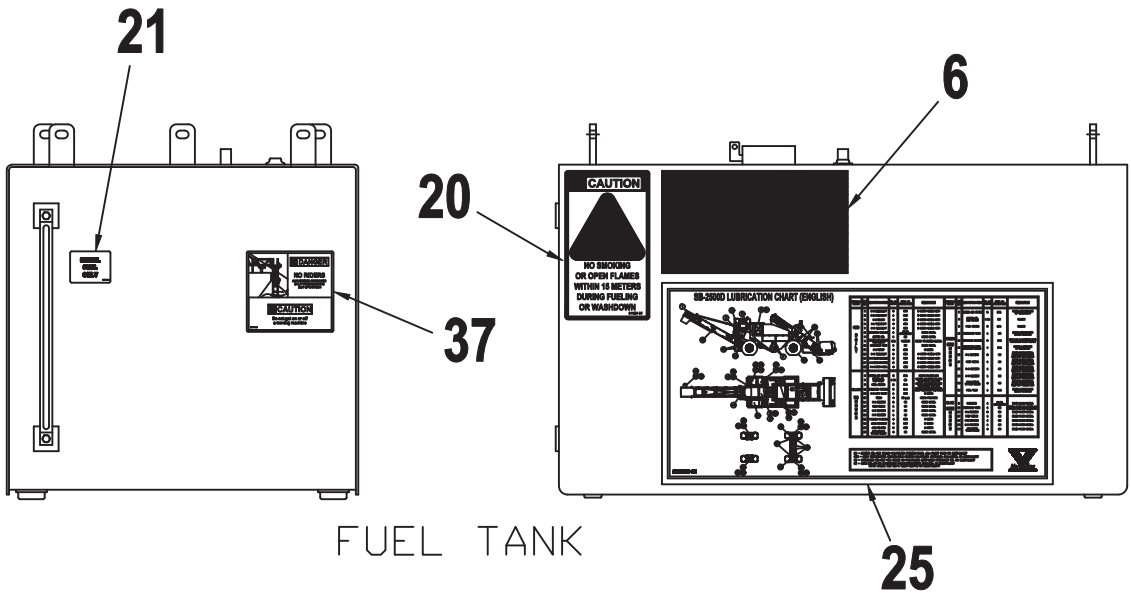
OPERATOR'S CONSOLE

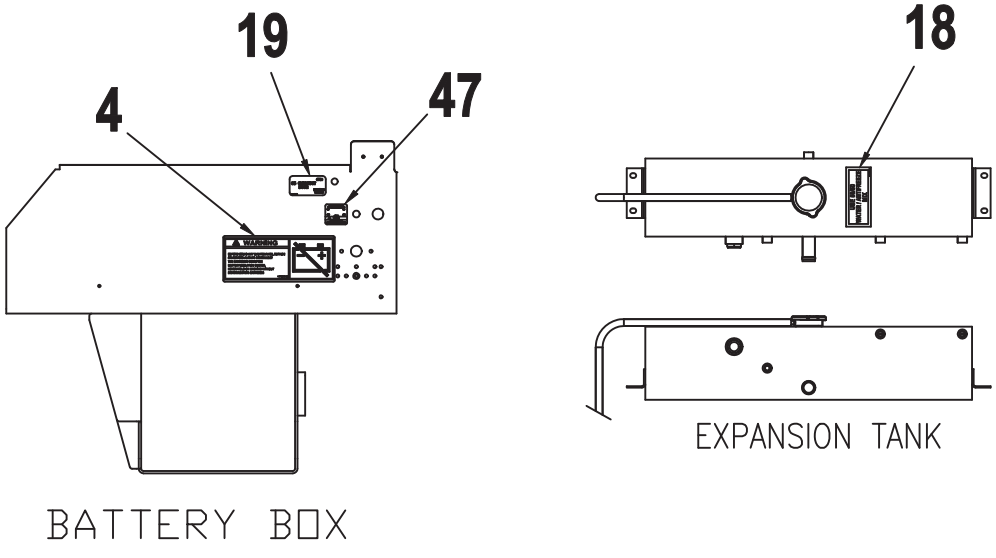


INSIDE ENGINE COMPARTMENT
ON CENTER CONSOLE COVER

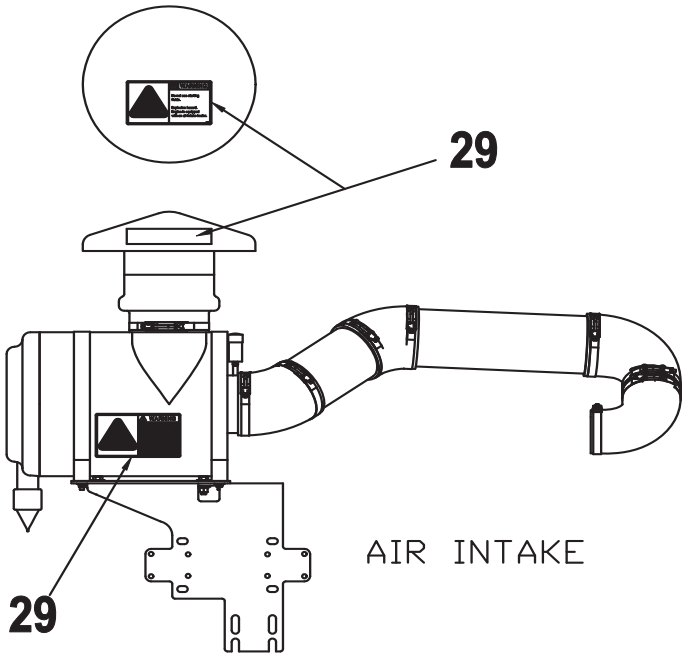
SB-2500D DECAL KIT
(230722-01)

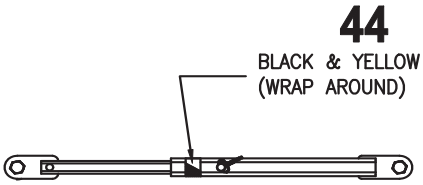




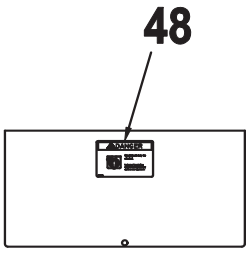


SB-2500D DECAL KIT
(230722-01)





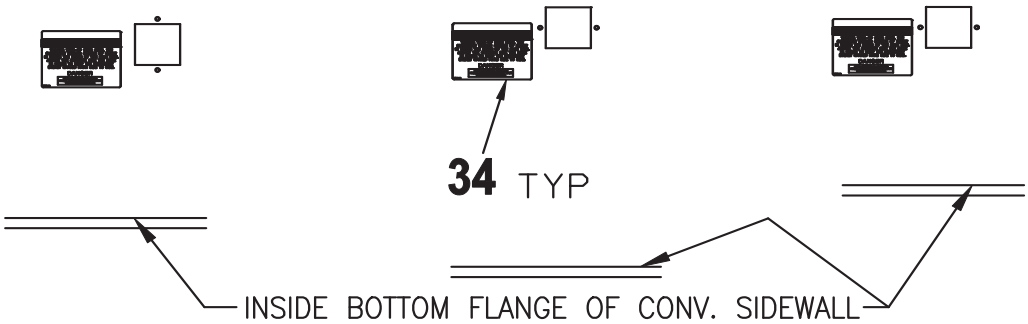
HOOD PROP



BATTERY BOX LID

CHAIN TENSION DECAL (ITEM 34) PLACEMENT

C-1	C-2	C-3
SHT3	SHT1	SHT4



DETAIL "B"

DECAL KIT ASSEMBLY
(230722-01)

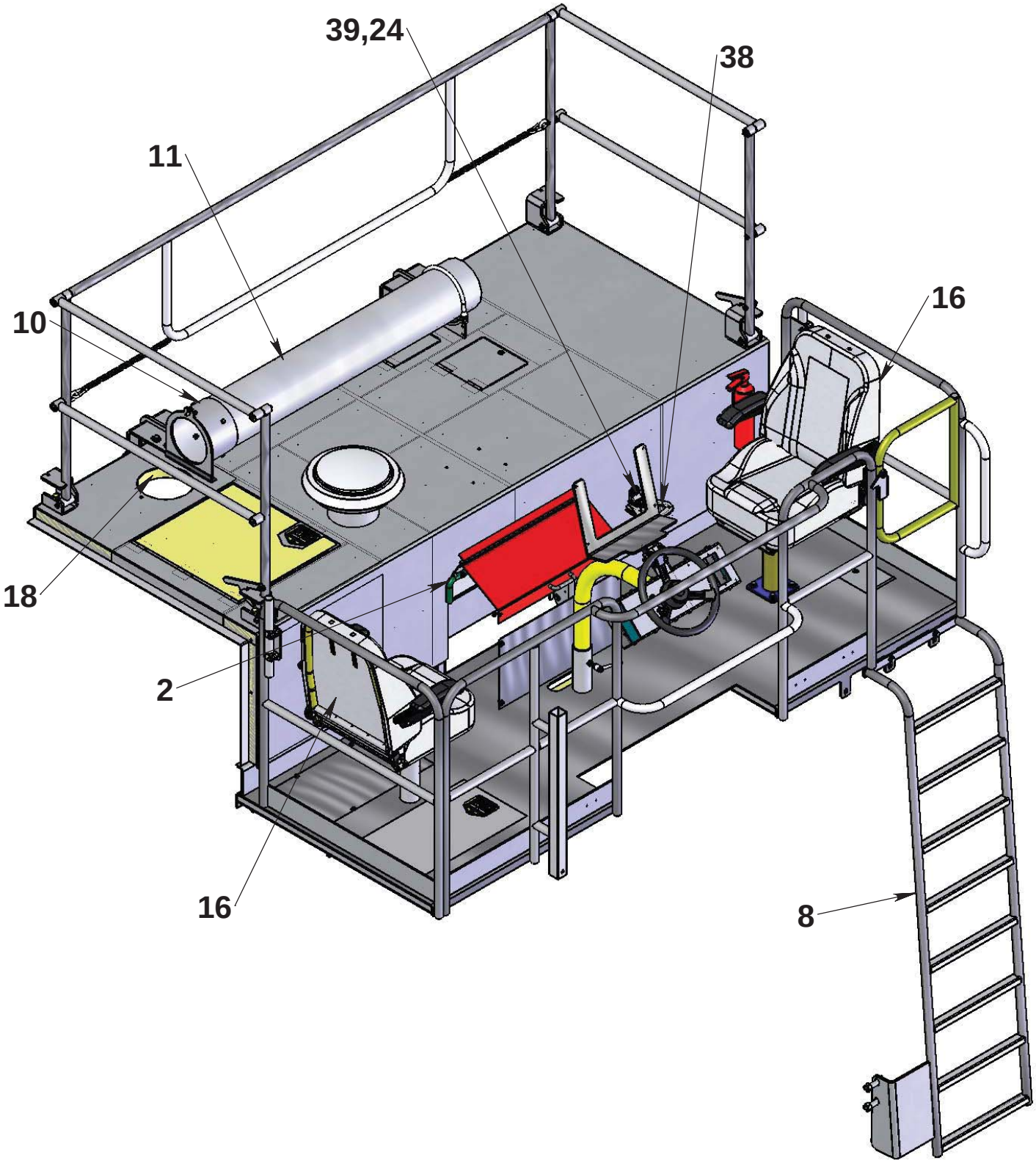
ITEM #	PART NO.	DESCRIPTION	QTY.
1	230706-02	DECAL - HAND PUMP INSTRUCTIONS	1
2	92819-04	DECAL - CONVEYOR ADJUSTMENT	6
3	211258-04	DECAL - WARNING! DISCHARGE AREA	2
4	141326-03	DECAL - BATTERY WARNING	1
5	211262-04	DECAL - WARNING DISCHARGE AREA	2
6	95906-03	DECAL - AMERICAN FLAG - 8 1/4" X 15"	2
7	95875-02	DECAL - SHUTTLE BUGGY (BLUE)	2
8	211263-04	DECAL - PINCH POINT	7
9	211260-04	DECAL - 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	216400-04	DECAL - SB-2500D (C-3 CONVEYOR SIDE)	2
15	131690-04	DECAL - PATENT PLATE	1
16	99535-04	DECAL - WASHDOWN	1
17	96088-04	DECAL - GREASE HERE (1" X 2")	46
18	223987-04	DECAL - USE 50/50 WATER/ANTIFREEZE MIX	1
19	144443-04	DECAL - C3 CLEAN OUT DOOR	1
20	211261-04	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	226598-01	DECAL - SB-2500D 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	217996-04	DECAL - NO STARTING FLUID	2
30			
31			
32	211257-03	DECAL - NOTICE OIL LEVEL	1
33	135910-04	DECAL - FXS TRADEMARK	2
34	201237-03	DECAL - CHAIN TENSION GUIDE	3
35	201474-03	DECAL - HYDRAULIC TANK	1
36	211301-04	DECAL - DANGER! CRUSH & TIRE PRESSURE	4
37	201476-03	DECAL - DANGER! NO RIDERS (ON FUEL TANK)	1
38	211264-04	DECAL - CAUTION! NO SMOKING	2
39	211268-04	DECAL - DANGER! ENTANGLEMENT HAZARD	5
40	211271-03	DECAL - CENTER CONSOLE	2
41	226627-01	DECAL - VALVE LABELS (LOCATION NOT SHOWN)	1
42	201235-03	DECAL - VALVE LABELS (LOCATION NOT SHOWN)	1
43	92870-04	DECAL - SERIAL NUMBER ID PLATE	1
44	129611	DECAL - BLACK & YELLOW CAUTION TAPE	REF
45			

DECAL KIT ASSEMBLY
(230722-01)

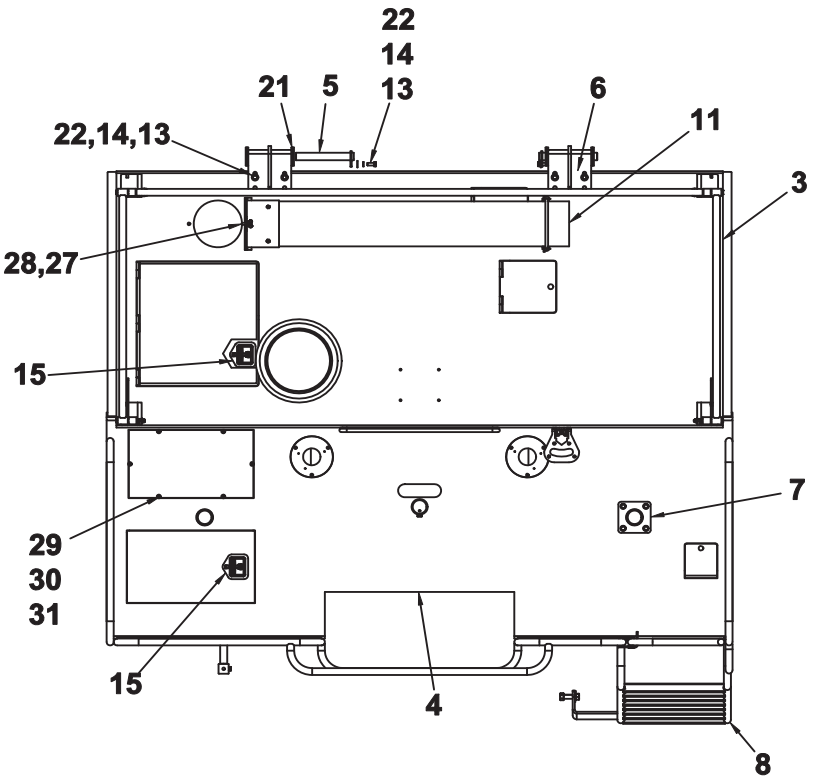
ITEM #	PART NO.	DESCRIPTION	QTY.
46	202078-04	ON/OFF DECAL	1
47	205144-04	DECAL - GROUND CONNECTION ON/OFF	1
48	207966-04	DECAL - BATTERY LOCKOUT/TAGOUT	1
49	211276-04	DECAL - UNAUTHORIZED PERSONNEL KEEP BACK	2
50	211269-03	DECAL - SAFE TRAVEL GRADE	1
51	211270-04	DECAL - WARNING! BURN HAZARD	7
52	211348-03	DECAL - SAFE TRAVEL GRADE	1
53	211275-04	DECAL - TIE DOWN POINT	8
54	222308-01	DECAL - ROADTEC W/ R LOGO, 99"	2
55	213603-04	DECAL - 3M REFLECTION TAPE DOT RED/WHITE	REF
56	83908-04	RIVET - GAMD45A/1/8" X 1/2"	6
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, HAND RAILS	2
62	229619-03	DECAL - C3 LIFT NOTICE	2

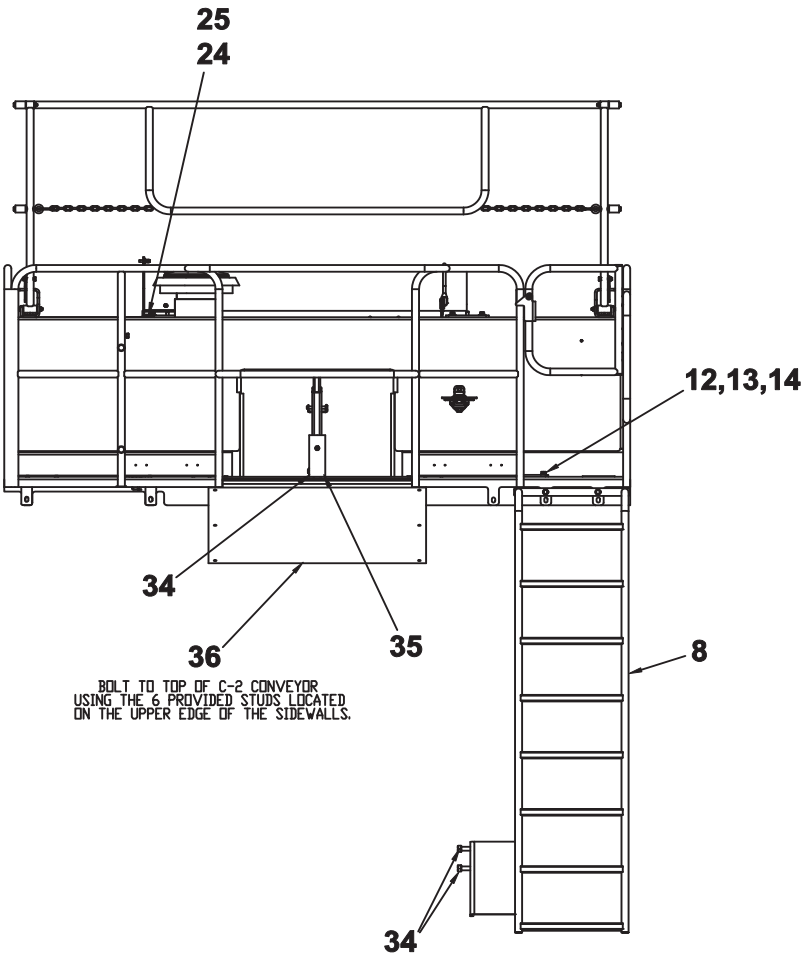
ASSEMBLY-PLATFORM & HOOD (227348-01)

NEXT PAGE



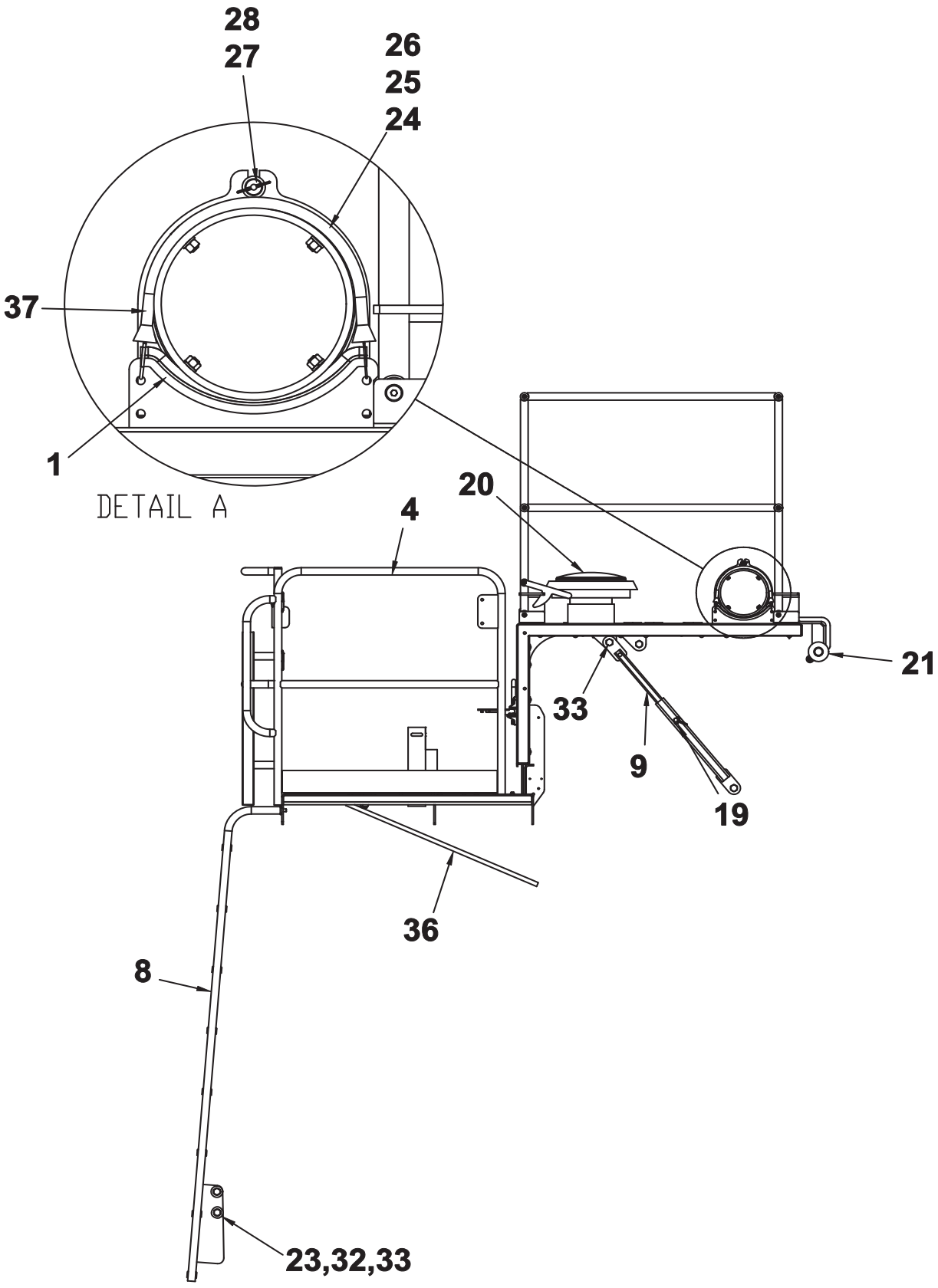
ASSEMBLY-PLATFORM & HOOD
(227348-01)





ASSEMBLY-PLATFORM & HOOD
(227348-01)

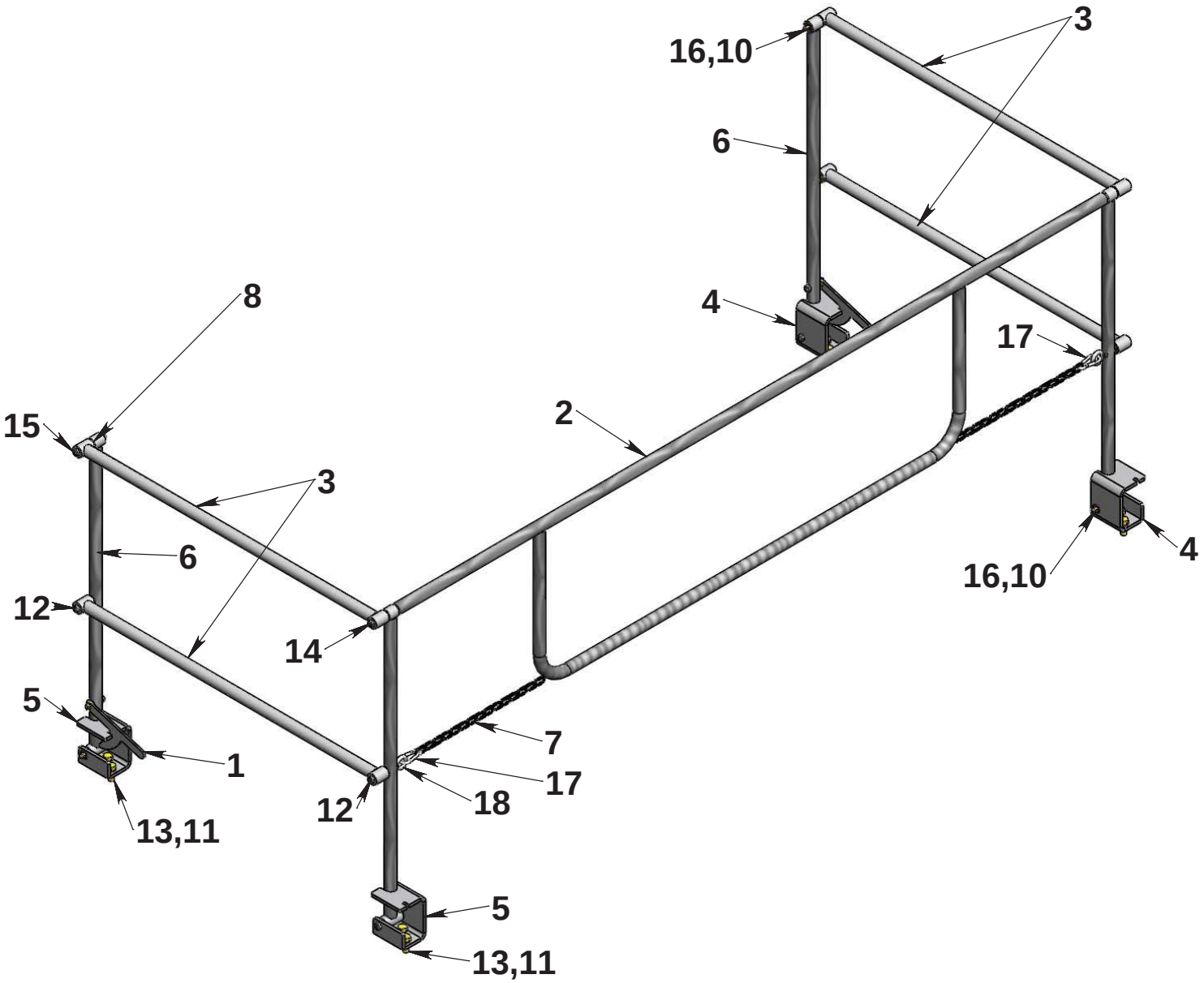
PREVIOUS PAGE



ASSEMBLY-PLATFORM & HOOD (227348-01)

ITEM #	PART #	DESCRIPTION	QTY
1	224720-01-1	MOLDING - 3/8" INTERLOCK TRIM X 18"	1
2	224720-01-2	TRIM - 3/4 BULB (1/4 SIDE MOUNT) X 40"	1
3	224745-01	WELDMENT-HOOD	1
4	222731-01	WELDMENT-PLATFORM	1
5	146491-04	WELDMENT-HOOD PIN	2
6	200186-03	HOOD HINGE WELDMENT	2
7	223735-01	WELDMENT ~ SEAT PEDESTAL	1
8	223728-01	WELDMENT-LADDER	1
9	203965-03	WELDMENT-HOOD PROP-SB-2500C	1
10	129130-02	FAN SHROUD VENT EXTENSION WELDMENT	1
11	129227-03	VENT PIPE	1
12	10D63	WASHER ~ 1/2" HARD A325	6
13	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	16
14	86164	BOLT * HEX 1/2"-13 X 1 1/4"	16
15	139779-04	FLUSH CUP T-HANDLE LATCH W/KEY (RH)	2
16	227349-01	ASSEMBLY - OPERATORS STATION SB-2500D	1
17	224025-01	ASSEMBLY-HOOD RAILS, FOLDING	1
18	224744-01	ASSEMBLY-HOOD INSULATIOIN KIT	1
19	205278-04	PIN * SAFETY SNAP 1/2-3	1
20	203088-03	ENGINE * 8" INLET HOOD	1
21	228575-04	DETAIL - HINGE SPACER	2
22	83781-04	WASHER * FLAT 1/2" STEEL	10
23	83133	WASHER * FLAT 3/4" STEEL	2
24	83056	WASHER ~ LOCK 3/8 SPRING STEEL	9
25	84332	BOLT * HEX 3/8"-16 X 1"	7
26	83055	NUT * 3/8-16 HEX GRADE 8	4
27	83757	WASHER ~ FLAT 3/8 STEEL	1
28	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	1
29	84444	WASHER * FLAT 1/4" STEEL	6
30	83065	WASHER ~ LOCK 1/4" SPRING STEEL	6
31	89988-04	BOLT * HEX 1/4"-20 X 3/4"	6
32	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	2
33	89151	BOLT * HEX 3/4"-10 X 3"	4
34	88164	NUT ~ 3/4"-10 LOCK GRADE 8	5
35	93723	BOLT ~ HEX 3/4"-10 x 2 1/2"	1
36	223717-04	INSULATION KIT * PLATFORM	1
37	211249-04	CORD * SHOCK CORD	1
38	224761-03	MODIFICATION - STEP * FOLDING	1
39	96476	BOLT * HEX 3/8"-16 X 1 1/4"	2

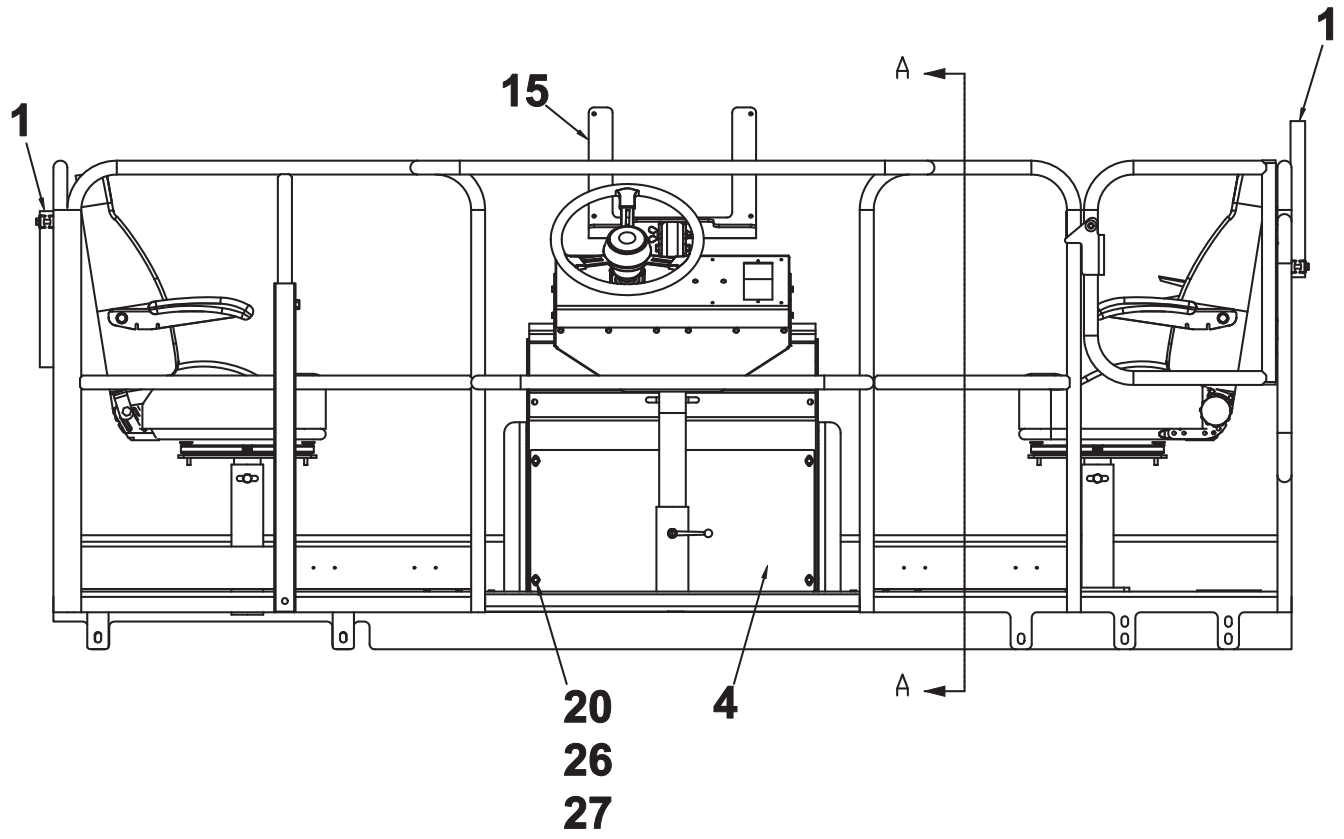
ASSEMBLY-HOOD RAILS, FOLDING
(224025-01)

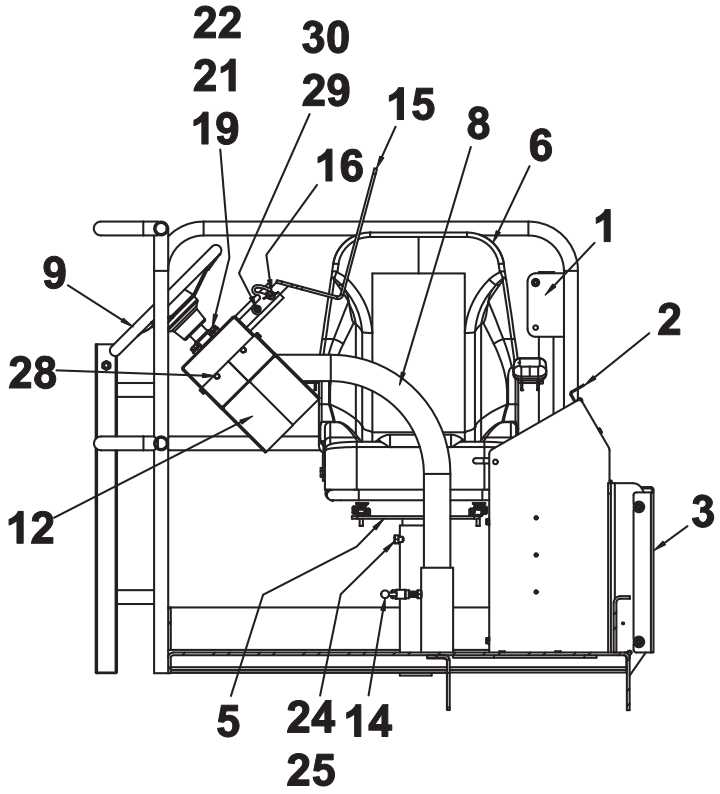


ITEM #	PART #	DESCRIPTION	QTY
1	224025-01-1	PLATE, 1/4 x 9 x 4 1/4, A36	2
2	224026-01	WELDMENT-HOOD RAIL, FRONT	1
3	224027-01	WELDMENT-HOOD RAIL, TOP & MID	4
4	224031-03	DETAIL-HOOD RAIL MOUNT, LEFT	2
5	224032-03	DETAIL-HOOD RAIL MOUNT, REAR LEFT	2
6	224028-01	WELDMENT-HOOD RAIL, REAR	2
7	127750	CHAIN * 1/4" COIL PROOF	32
8	83781-04	WASHER * FLAT 1/2" STEEL	18
9	223281-04	BOLT * SHOULDER 1/2 X 1 1/2, 3/8-16 TH	2
10	92235	NUT ~ 3/8"-16 LOCK GRADE 8	8
11	84717	WASHER ~ LOCK 5/8" SPRING STEEL	8
12	142342	BOLT * SHOULDER 3/8-16 X 1/2 X 2	4
13	84778	HEX BOLT * 5/8-11 X 1 1/2 LG	8
14	140077	SHOULDER BOLT * 1/2 X 2 1/2 W/3/8TH	2
15	224261-04	SHOULDER BOLT * 1/2 X 3 1/2 W/3/8TH	6
16	83757	WASHER ~ FLAT 3/8 STEEL	6
17	218214-04	3/8 DIA. SPRING SNAP HOOK	2
18	211382-04	BOLT * EYE 3/8"	2

ASSEMBLY-OPERATORS STATION
(227349-01)

NEXT PAGE

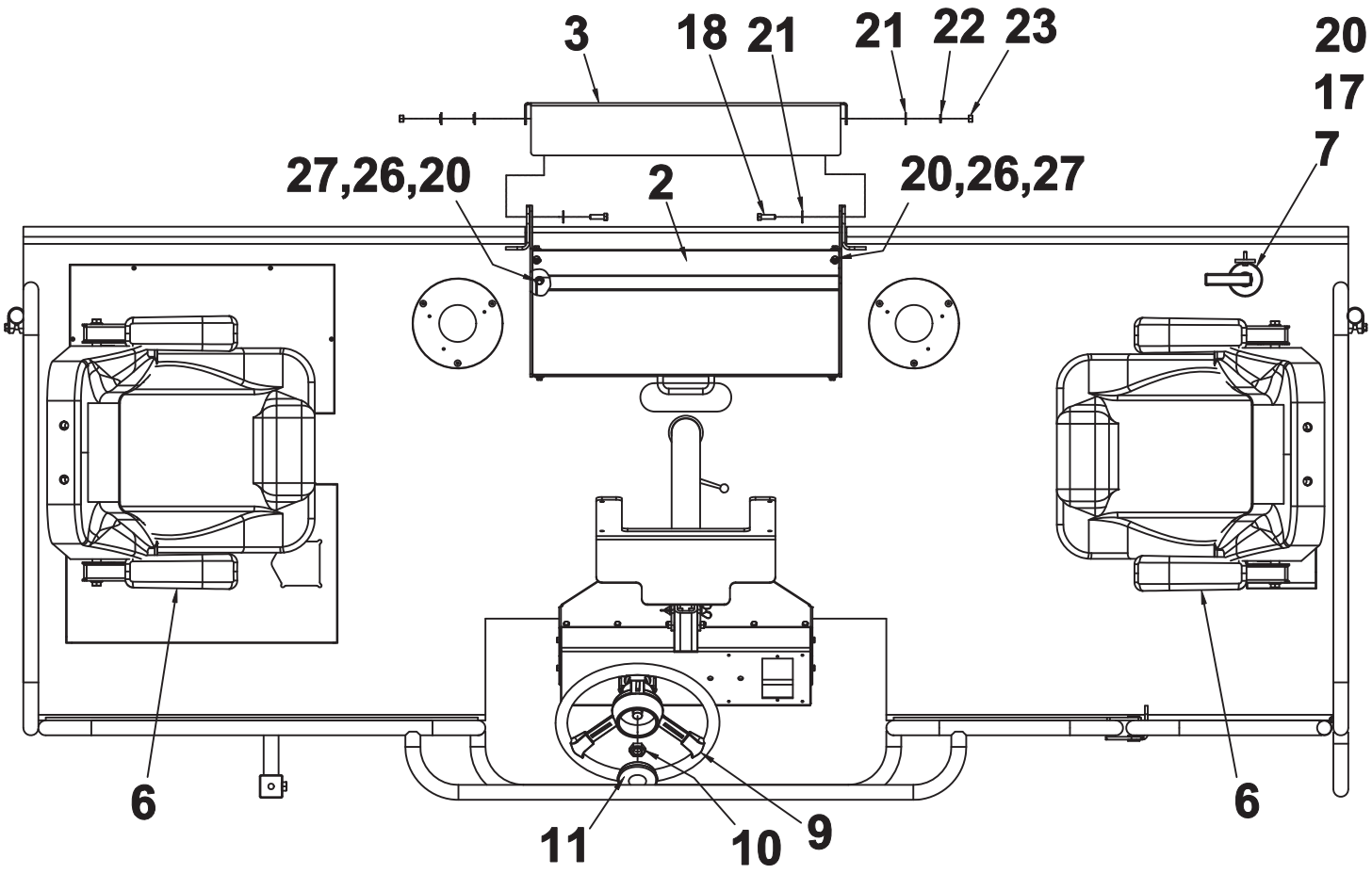




SECTION A-A

PREVIOUS PAGE

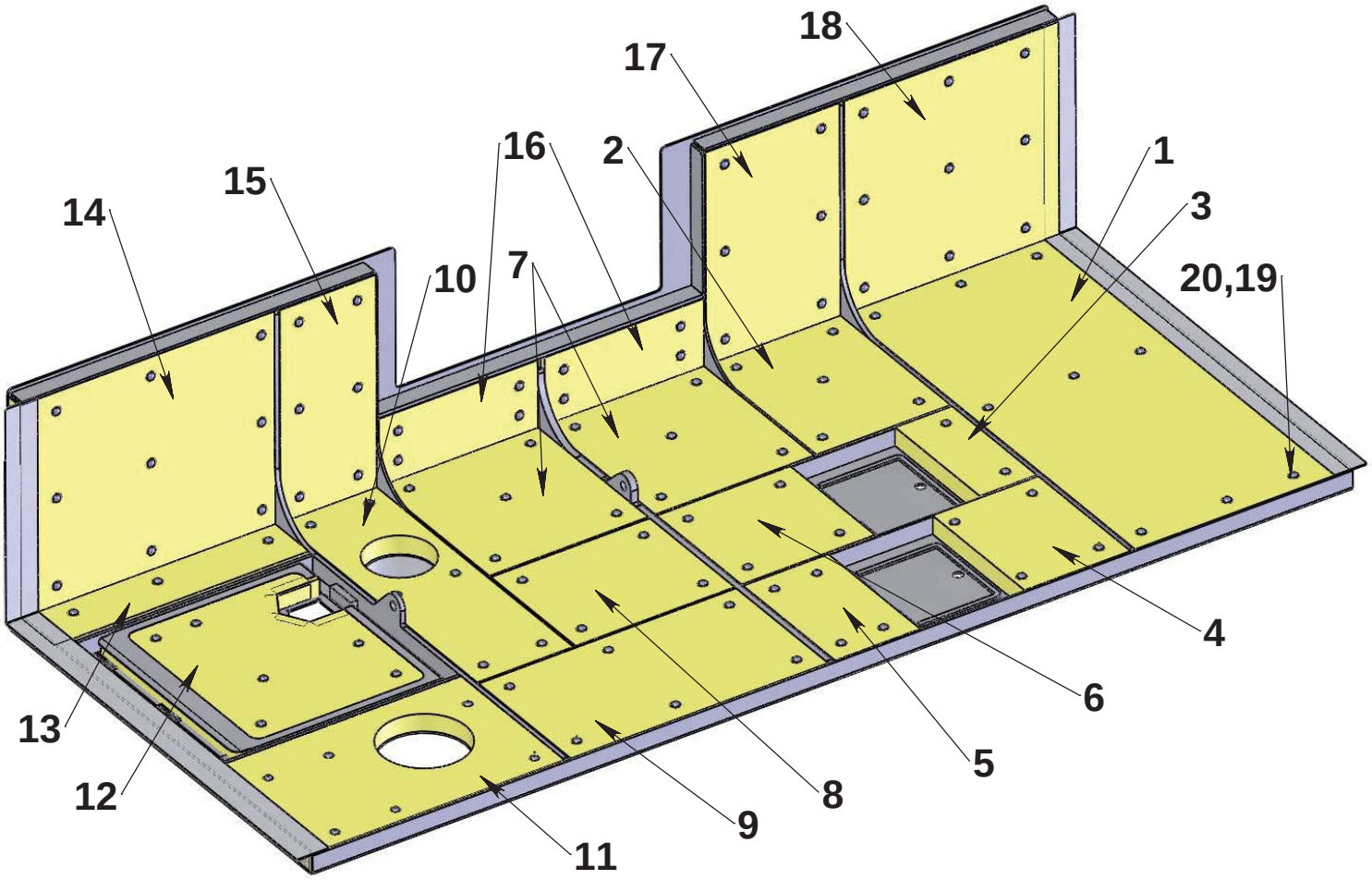
ASSEMBLY-OPERATORS STATION
(227349-01)



ASSEMBLY - OPERATORS STATION SB-2500D (227349-01)

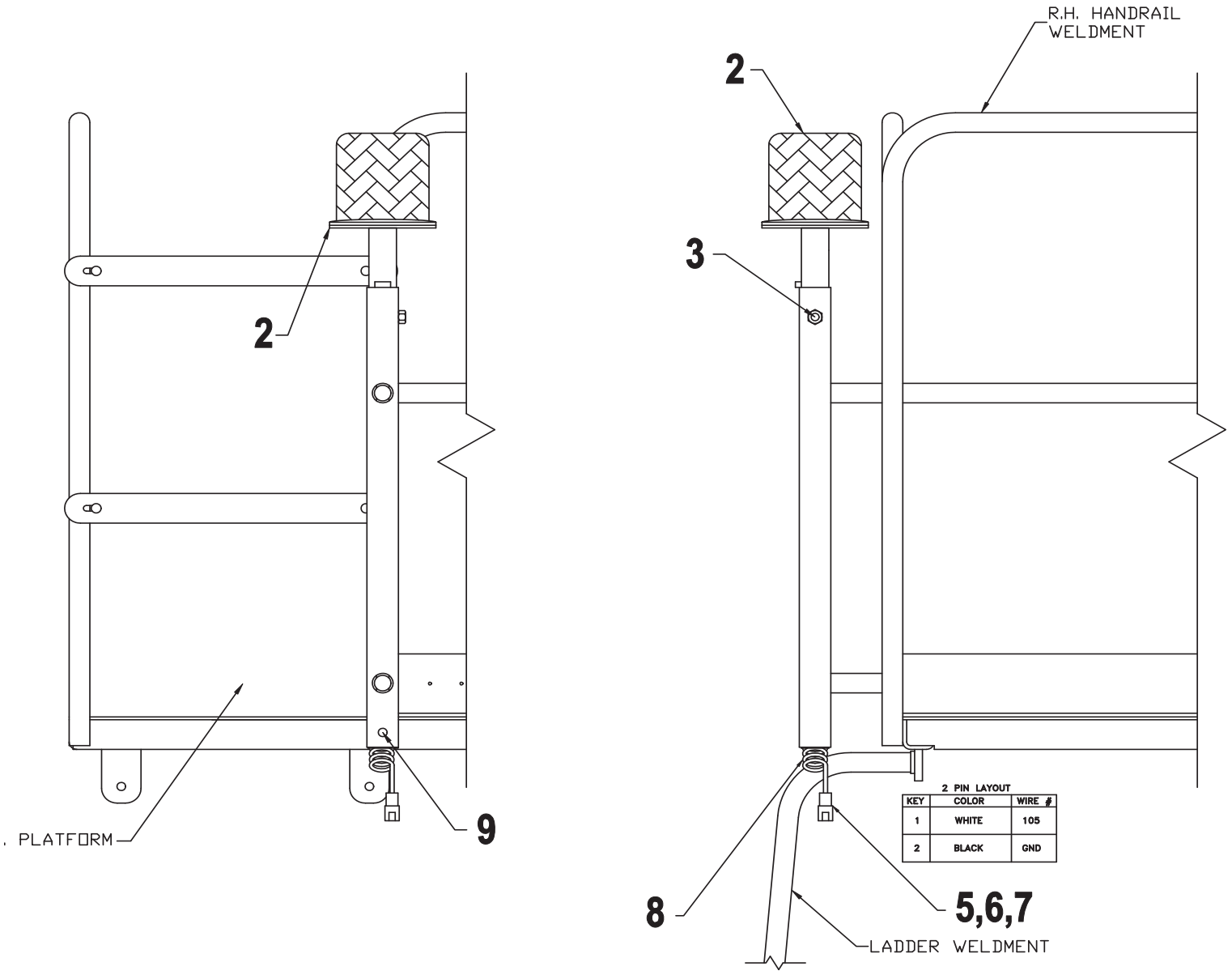
ITEM #	PART #	DESCRIPTION	QTY
1	99386	UMBRELLA * UNIVERSAL BRACKET	2
2	146496-01	WELDMENT-VANDAL COVER-1500B	1
3	217022-03	REAR CONSOLE COVER	1
4	203310-03	DETAIL-CENTER CONSOLE FRONT COVER	1
5	128095-02	WELDMENT-SEAT BASE	2
6	224953-04	SEAT * WHITE DRIVER W/ RECLINE ADJU	2
7	99583	FIRE EXTINGUISHER 2 1/2 LBS	1
8	200185-01	WELDMENT-OPERATORS CONSOLE-2500C	1
9	143111-01	STEERING * WHEEL 14"	1
10	89045	NUT * CHAR LYNN HEX	1
11	143112-03	STEERING * WHEEL CAP	1
12	146567-03	DETAIL-OPERATORS CONSOLE COVER (2PC)	1
13	202080-01	ASSEMBLY-MIRROR-SB-2500C	1
14	122081-04	HANDLE * CLAMPING	1
15	146568-02	WLDT-OPERATORS CONTROL BOX MOUNT	1
16	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	2
17	89773	BOLT * HEX 1/4"-20 X 1"	2
18	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
19	83924	BOLT * HEX 3/8"-16 X 1 1/2"	4
20	83065	WASHER ~ LOCK 1/4" SPRING STEEL	14
21	83757	WASHER ~ FLAT 3/8 STEEL	12
22	83056	WASHER ~ LOCK 3/8 SPRING STEEL	8
23	83055	NUT * 3/8-16 HEX GRADE 8	4
24	84431-04	BOLT * HEX 1/2"-13 X 4"	2
25	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	2
26	89988-04	BOLT * HEX 1/4"-20 X 3/4"	12
27	84444	WASHER * FLAT 1/4" STEEL	12
28	133842	HEX-HEAD/SELF-DRILLING~1/4-20 X 3/4	16
29	121200	HEX BOLT * 3/8"-16 X 3"	1
30	92235	NUT ~ 3/8"-16 LOCK GRADE 8	1

ASSEMBLY- HOOD INSULATION KIT (224744-01)



ITEM #	PART #	DESCRIPTION	QTY
1	224744-01-1	INSULATION 2" X 23 1/4" X 48 5/8"	1
2	224744-01-2	INSULATION 2" X 14 9/16" X 19 9/16"	1
3	224744-01-3	INSULATION 2" X 6 3/16" X 13 11/16"	1
4	224744-01-4	INSULATION 2" X 11 1/2" X 14 7/8"	1
5	224744-01-5	INSULATION 2" X 9 1/4" X 14 7/8"	1
6	224744-01-6	INSULATION 2" X 14 1/2" X 13 11/16"	1
7	224744-01-7	INSULATION 2" X 17 1/4" X 19 9/16"	2
8	224744-01-8	INSULATION 2" X 13 11/16" X 17 1/4"	1
9	224744-01-9	INSULATION 2" X 14 7/8" X 27 15/16"	1
10	224744-01-10	INSULATION 2" X 10 7/16" X 33 1/2"	1
11	224744-01-11	INSULATION 2" X 16 11/16" X 27 5/8"	1
12	224744-01-12	INSULATION 2" X 21 3/4" X 23"	1
13	224744-01-13	INSULATION 2" X 7 5/16" X 27 5/8"	1
14	224744-01-14	INSULATION 2" X 22 7/8" X 27 5/8"	1
15	224744-01-15	INSULATION 2" X 22 7/8" X 10 7/16"	1
16	224744-01-16	INSULATION 2" X 7 1/4" X 17 1/4"	2
17	224744-01-17	INSULATION 2" X 22 7/8" X 14 9/16"	1
18	224744-01-18	INSULATION 2" X 22 7/8" X 23 1/4"	1
19	136660	WELD PIN ~ DOME CAPS 12 GA.	107
20	136659	R100 12GA.SPEED CLIPS MS.{GALV.}	107
21	L224744-01	OUTSIDE LABOR * INSULATION KIT	1

SB-2500D STROBE LIGHT ASSEMBLY
(214370-01)



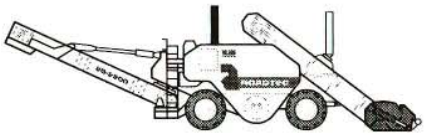
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	209506-01	STROBE MOUNT WLDMT.	1
2	204123-04	LIGHT - 80 / MIN 12V STROBE	1
3	135982-04	WING BOLT - 1/2-13	1
4	20K32	CLAMP - 1/4" WIRE LOOM	1
5	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
6	137176-04	DEUTSCH 16 AWG PINS	2
7	206401-04	DEUTSCH SECONDARY LOCK	1
8	98237-04	CABLE - RETRACTABLE CORD	1/2
9	87318-04	RUBBER - 1/2" GROMMET	1

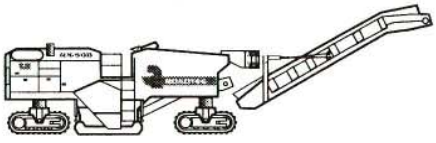
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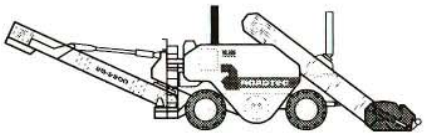
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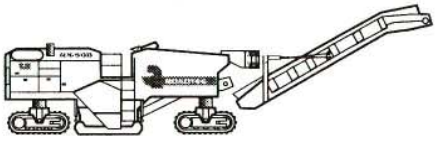
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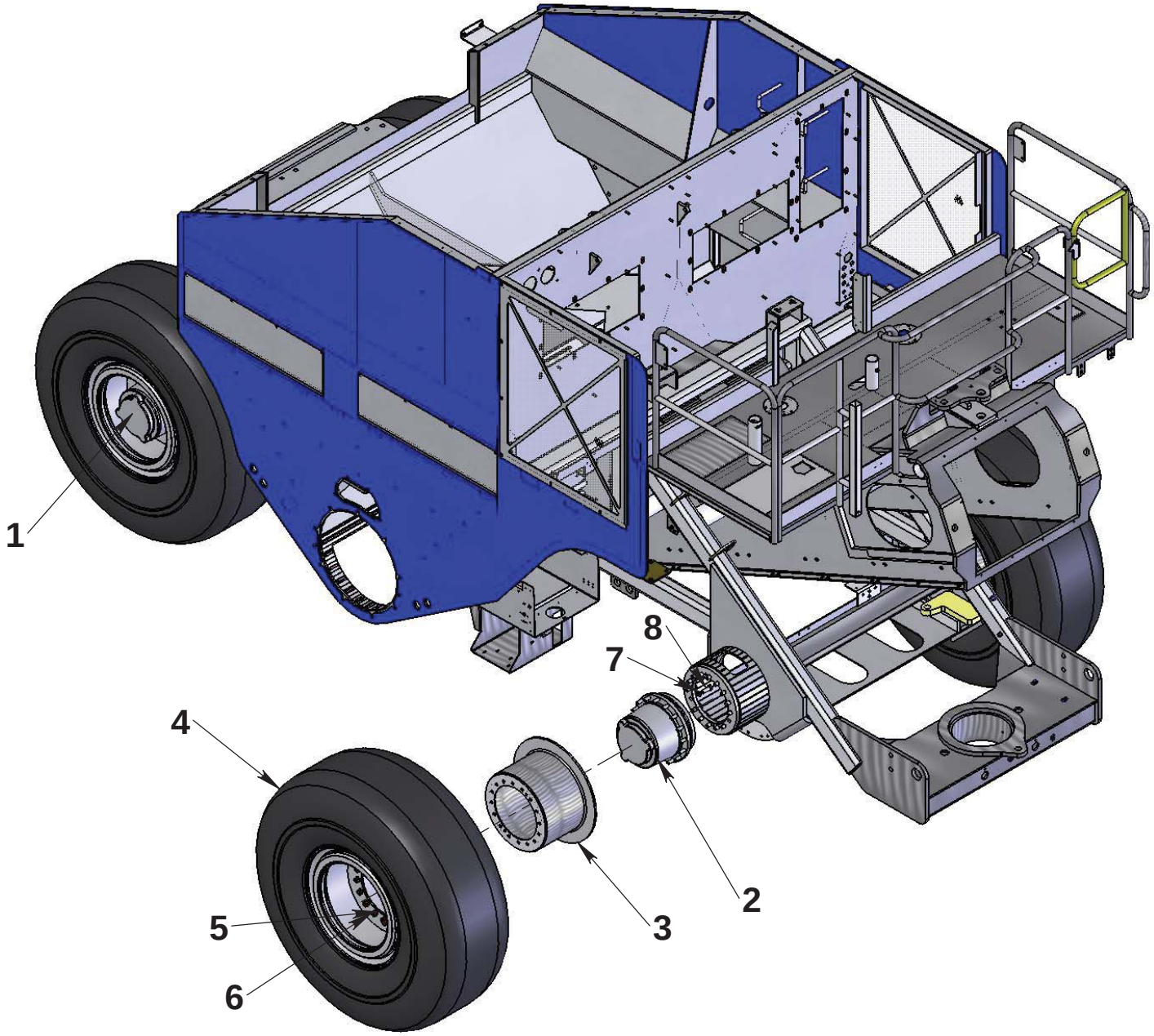
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SECTION 3 : AXLE & DRIVE

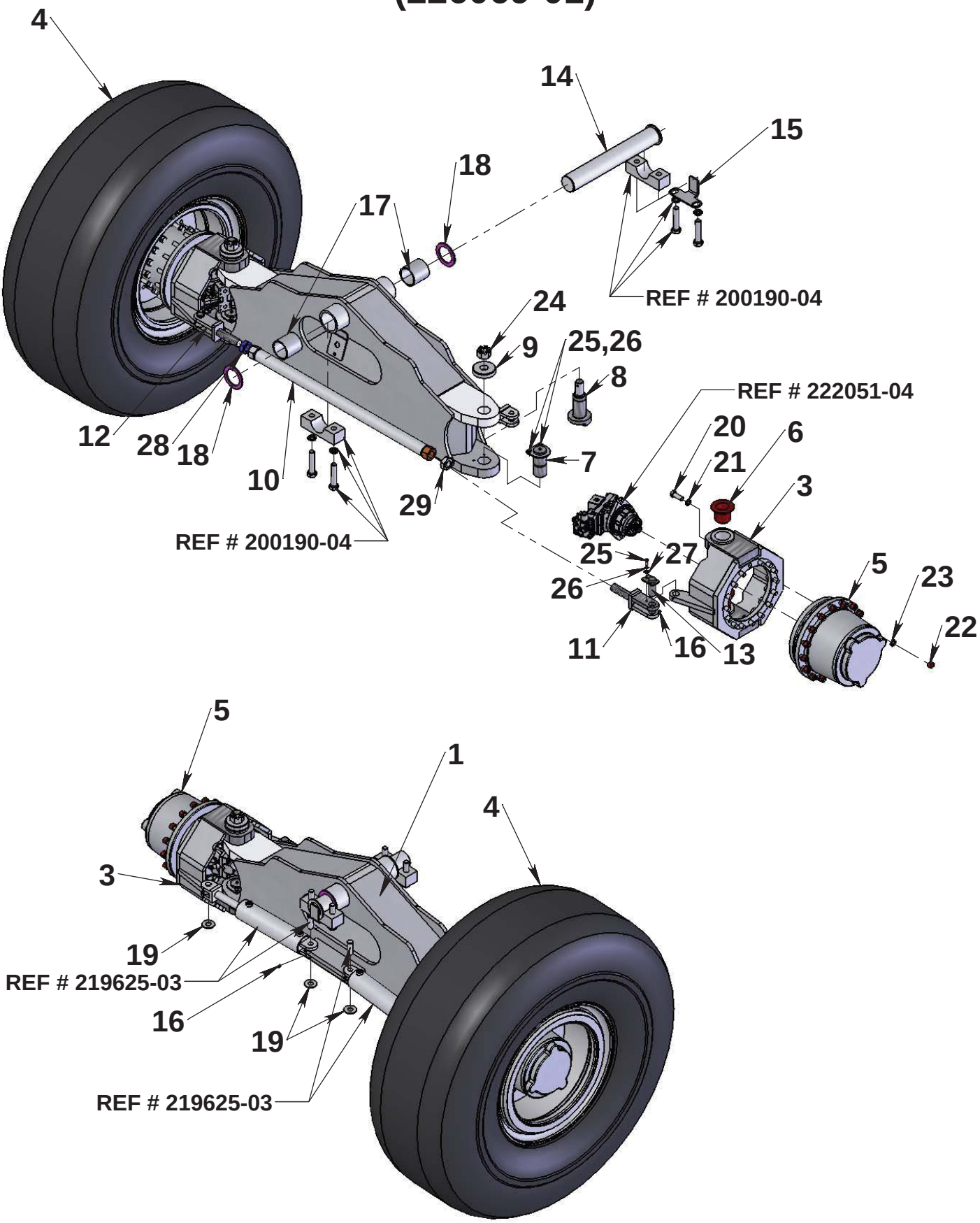
ASSEMBLY	PART NO.	S/N	PAGE NO.
FRONT & REAR AXLE	226435-01	1038,1044 & UP	3.1
DRIVE AXLE	226069-01		3.3
TRANS. GEAR BOX	218897-01		3.5
PROPEL MOTOR	222051-04		3.7

ASSEMBLY-FRONT AND REAR DRIVES (226435-01)



ITEM #	PART #	DESCRIPTION	QTY
1	226069-01	ASSEMBLY-FRONT STEERING AXLE	1
2	218897-01	TRANS * GEARBOX	2
3	226409-01	WELDMENT-BRAKE DISC	2
4	221885-04	ASSEMBLY- TIRE & RIM	4
5	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	64
6	93211	NUT * HEX 3/4"-16 FINE THREAD	64
7	94724	WASHER * LOCK 20 127B	32
8	203325-04	BOLT * M20-2.5 X 55 10.9 933	32

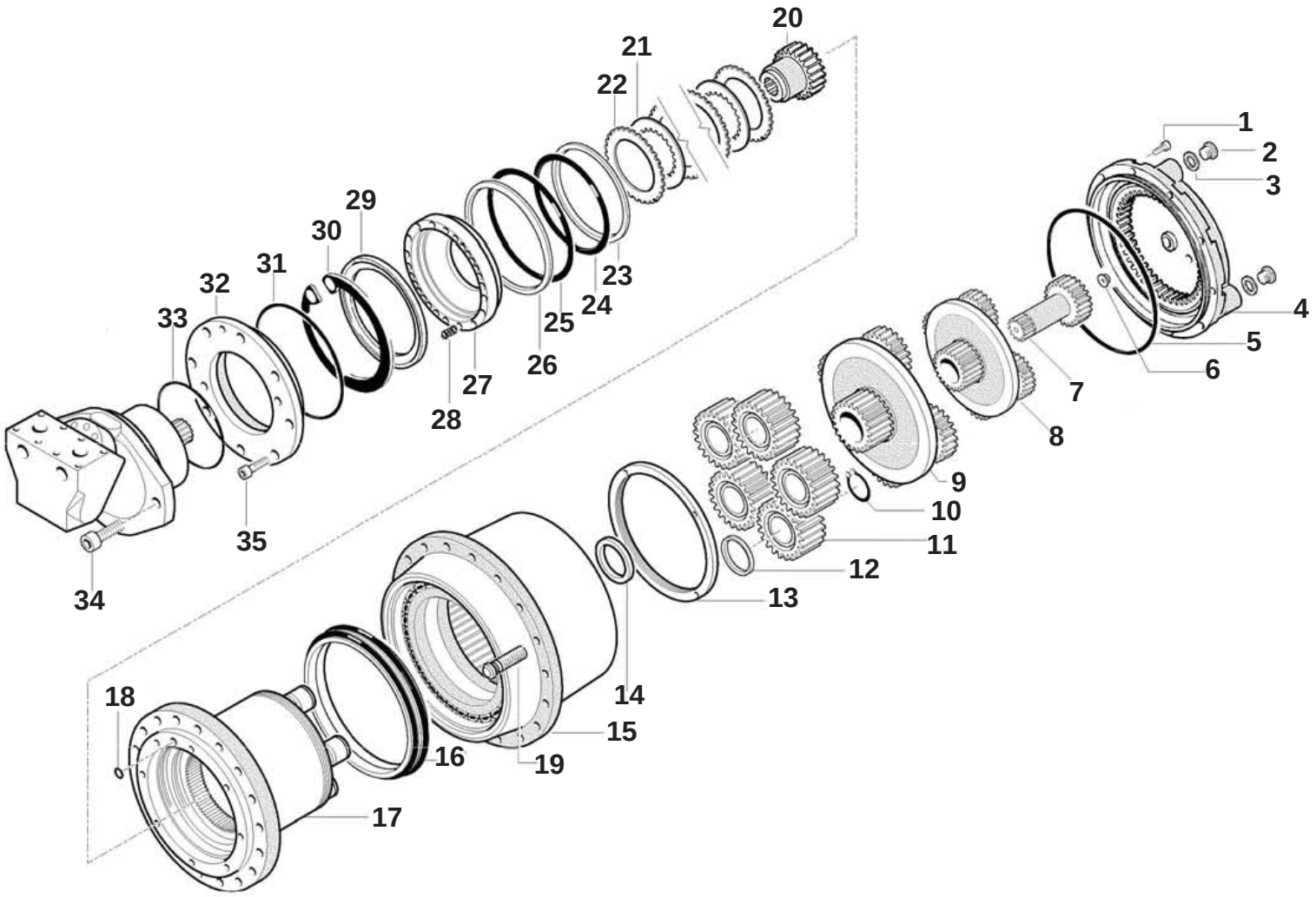
ASSEMBLY-FRONT STEERING AXLE
(226069-01)



ASSEMBLY-FRONT STEERING AXLE (226069-01)

ITEM #	PART #	DESCRIPTION	QTY
1	226073-01	WELDMENT - FRONT STEERING TRUNION	1
2	226071-01	WELDMENT- DRIVE SPINDLE HOUSING, FRONT LH	1
3	226072-01	WELDEMNT- DRIVE SPINDLE HOUSING, FRONT RH	1
4	221885-04	ASSEMBLY- TIRE & RIM	2
5	218897-01	TRANS * GEARBOX	2
6	219824-04	BUSHING * FLGD, 3" X 2.5"ID X 3"L, 4.5 FLG .25THK	4
7	219825-03	WELDMENT - KING PIN	2
8	226397-03	DETAIL-KING PIN, THRUST	2
9	226398-03	DETAIL-CARRIER PLATE, THRUST	2
10	226408-03	WELDMENT - TIE ROD	1
11	219820-03	TIE ROD WELDMENT-R.H.	1
12	219821-03	TIE ROD WELDMENT-L.H.	1
13	143107-03	CYLINDER PIN WELDMENT	2
14	149999-03	WLDT- FRONT AXLE TRUNION PIN	1
15	147427-03	PIVOT PIN RETAINER	1
16	83416	GREASE * NIPPLE 1/8" NPT	10
17	29M85	BUSHING * DURALON	2
18	214527-04	WASHER * THRUST	2
19	83376-04	FLAT WASHER * 1" STEEL	4
20	203325-04	BOLT * M20-2.5 X 55 10.9 933	32
21	94724	WASHER * LOCK 20 127B	32
22	93211	NUT * HEX 3/4"-16 FINE THREAD	32
23	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	32
24	26A60	NUT * SLOTTED 1 1/2" NC	2
25	84332	BOLT * HEX 3/8"-16 X 1"	6
26	83056	WASHER ~ LOCK 3/8 SPRING STEEL	6
27	83757	WASHER ~ FLAT 3/8 STEEL	6
28	205242-04	NUT * HEX 1 1/2-12 JAM LH	1
29	205241-04	NUT * HEX 1 1/2-12 JAM RH.	1

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

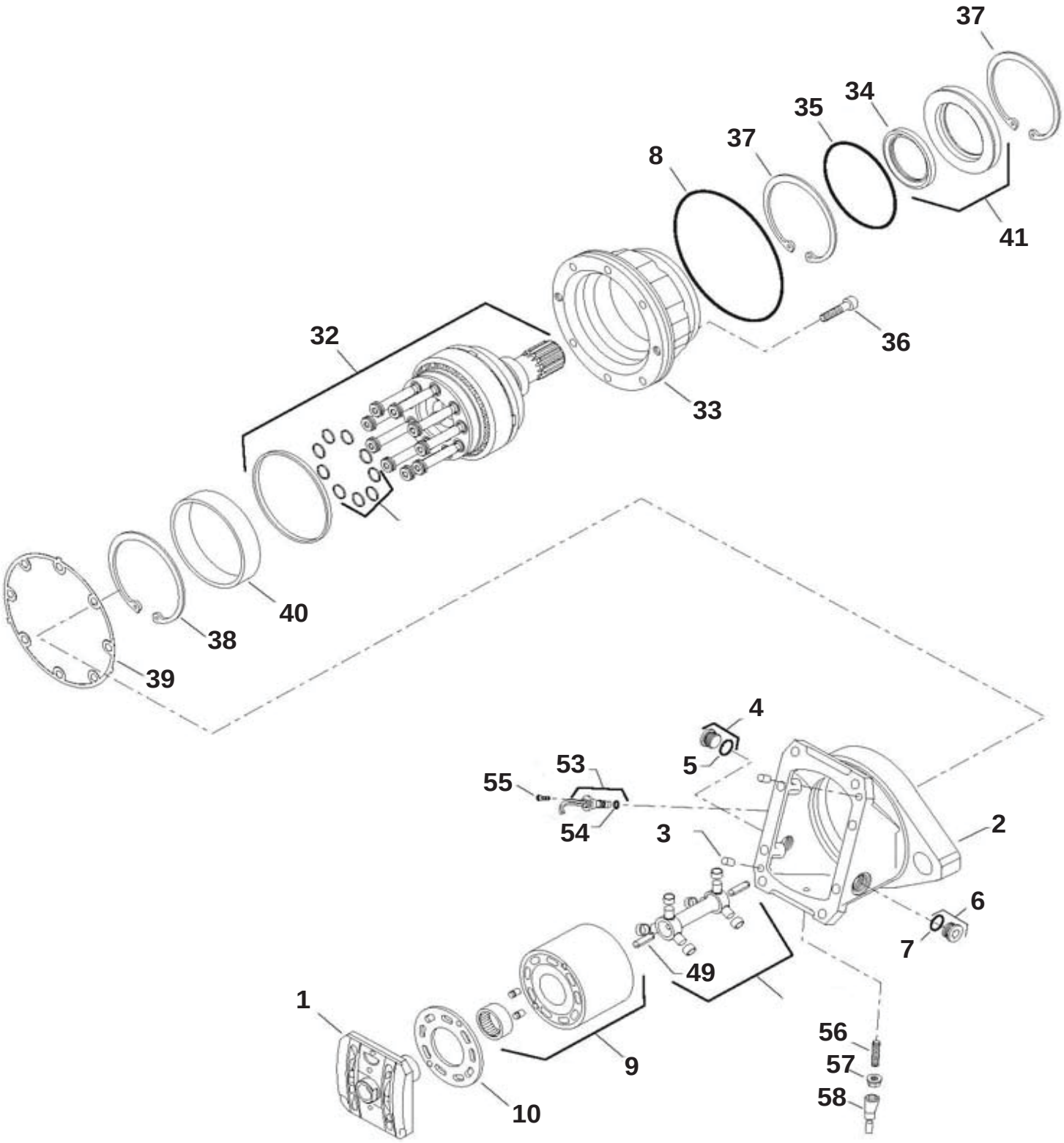


SB-2500D TRANS. GEAR BOX ASSY. (218897-01)

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			

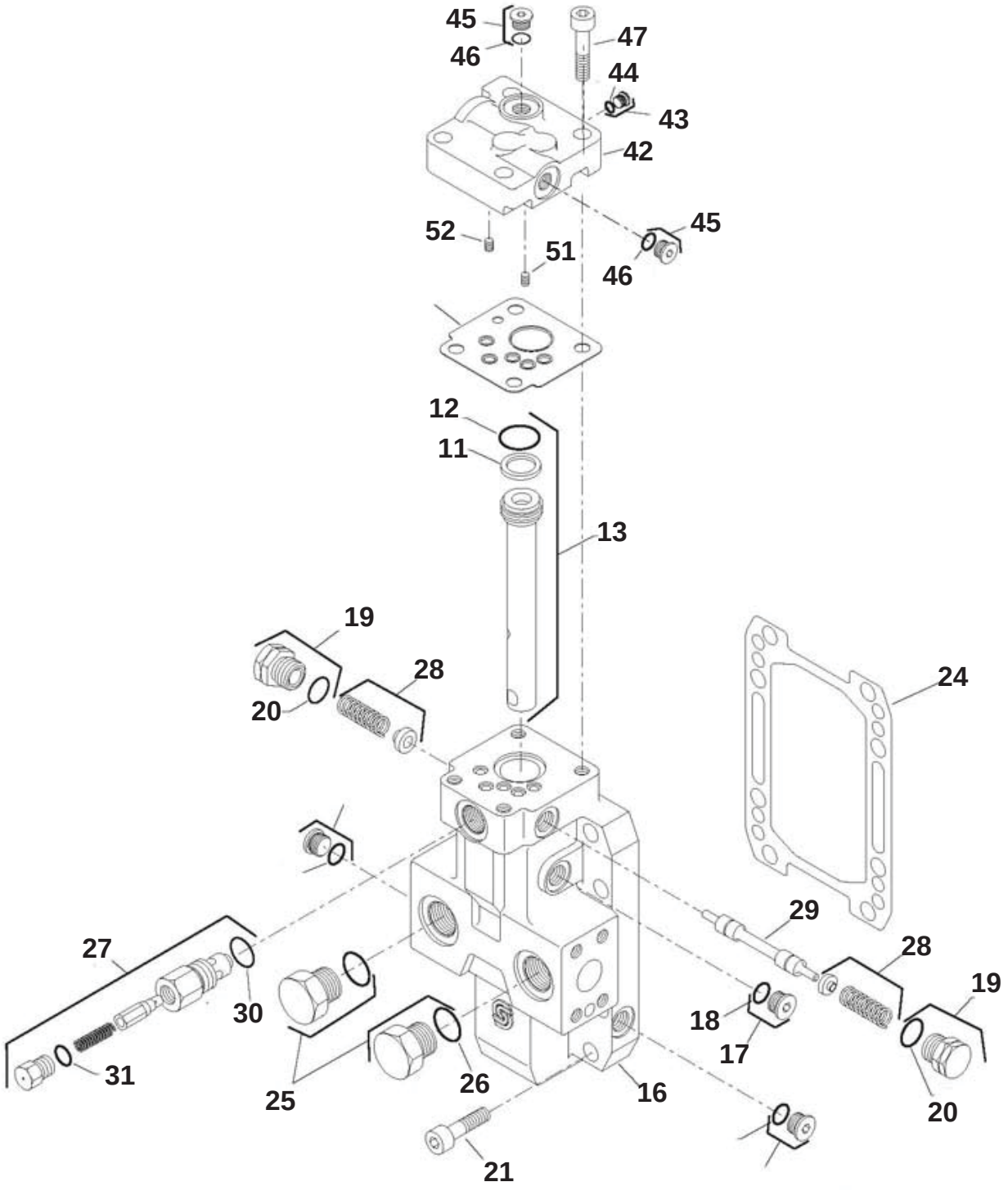
PROPEL MOTOR
(222051-04)

NEXT PAGE



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)

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

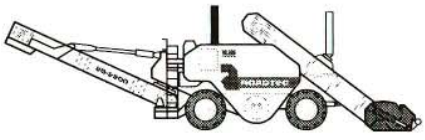
ITEM #	PART NO.	DESCRIPTION	QTY.
46		PLUG	2
47		O-RING	4
48		SCREW	4
49		SAFETY CAP, GREEN	1
50		SYNCH SHAFT KIT	1
51		PISTON RING KIT	1
52		ORIFICE, 0.8 M6 X 8	1
53		ORIFICE, 0.8 M6 X 8	1
54		SPEED SENSOR	1
55		O-RING	1
56		SCREW	1
57		SET SCREW, FLAT POINT, M10 X 65	1
58		SEAL NUT, M10	2
59		OVERHAUL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

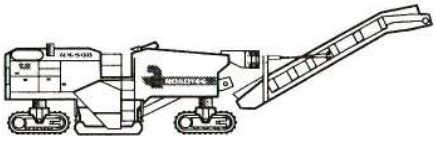
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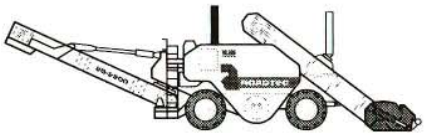
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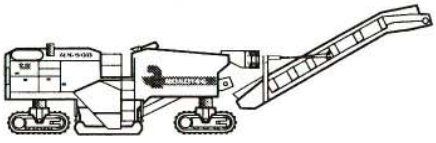
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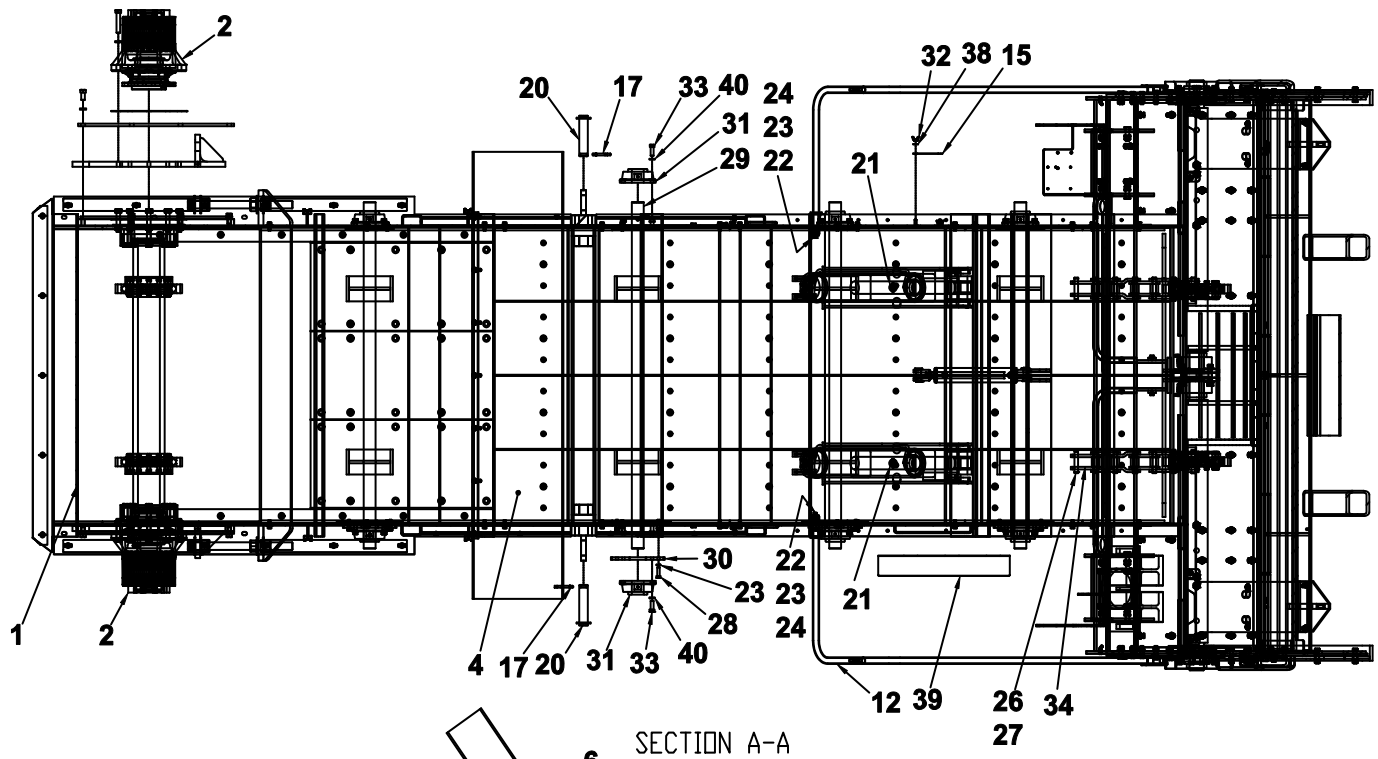
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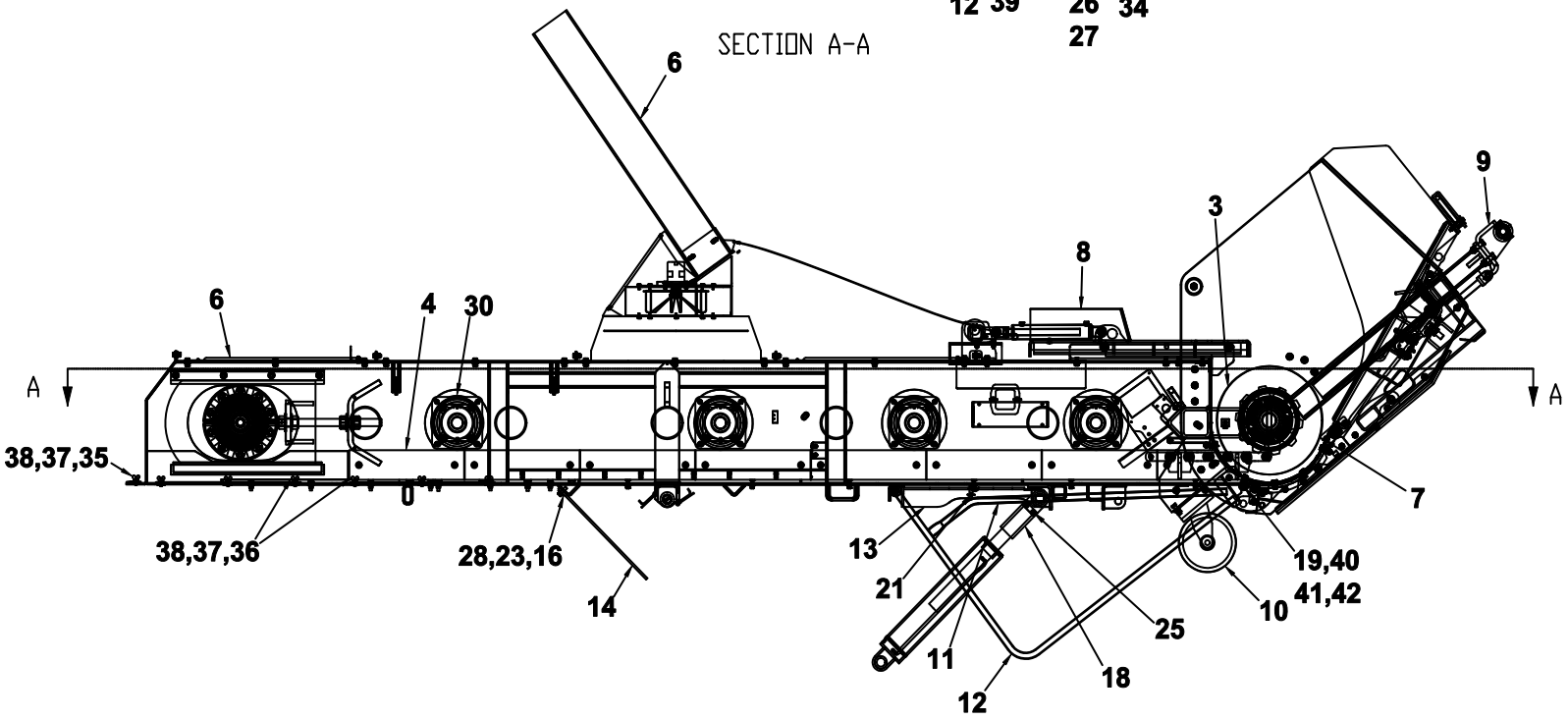
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SECTION 4 : CONVEYORS

ASSEMBLY	PART NO.	S/N	PAGE NO.
C-1 CONVEYOR	226983-01	1044 & UP	4.1
C1 CHAIN	223580-02		4.3
FOOTSHAFT & AUGER	223790-01	975 & UP	4.5
HEADSHAFT & TAKE- UP	223789-01	975 & UP	4.9
C-1 & C-3 DRIVE GEARBOX	29E38		4.11
C-1 DRIVE MOTOR	142642-04		4.13
TOP COVER W/FUME	214495-01	820 & UP	4.15
WEAR PLATES	226830-01	1044 & UP	4.17
DUMP HOPPER	223153-01		4.19
VIBRATOR	214654-01		4.21
BAFFLE	221906-01	942 & UP	4.22
HYD. PUSH ROLLER	212468-01	780 & UP	4.23
CASTER & SKIDS	148085-01		4.25
WHEEL ASSY.	132001-04		4.27
GREASE LINES	200733-01	776 & UP	4.28
C-2 CONVEYOR	231059-01	1091 & UP	4.29
CHAIN & IDLER	223297-01		4.31
C2 CHAIN	223338-02		4.32
FOOTSHAFT & AUGER	223296-01		4.33
HEADSHAFT & TAKE-UP	229858-01	1091 & UP	4.35
C-2 DRIVE GEARBOX	203739-01		4.37
C-2 DRIVE MOTOR	149224-04		4.39
LINER & BOTTOM PLATE	229755-01	1075 & UP	4.41
FLOWGATES	231060-01		4.42
C-3 CONVEYOR	223787-01	975 & UP	4.43
CHAIN & IDLER	223788-01		4.47
C3 CHAIN	223582-02		4.50
TOP COVER W/FUME	214493-01	820 & UP	4.51
C-3 DRIVE MOTOR	91681-04		4.53
INSULATION PANEL & TRUCK RAIL	214690-01	820 & UP	4.55

C-1 CONVEYOR ASSEMBLY
(226983-01)



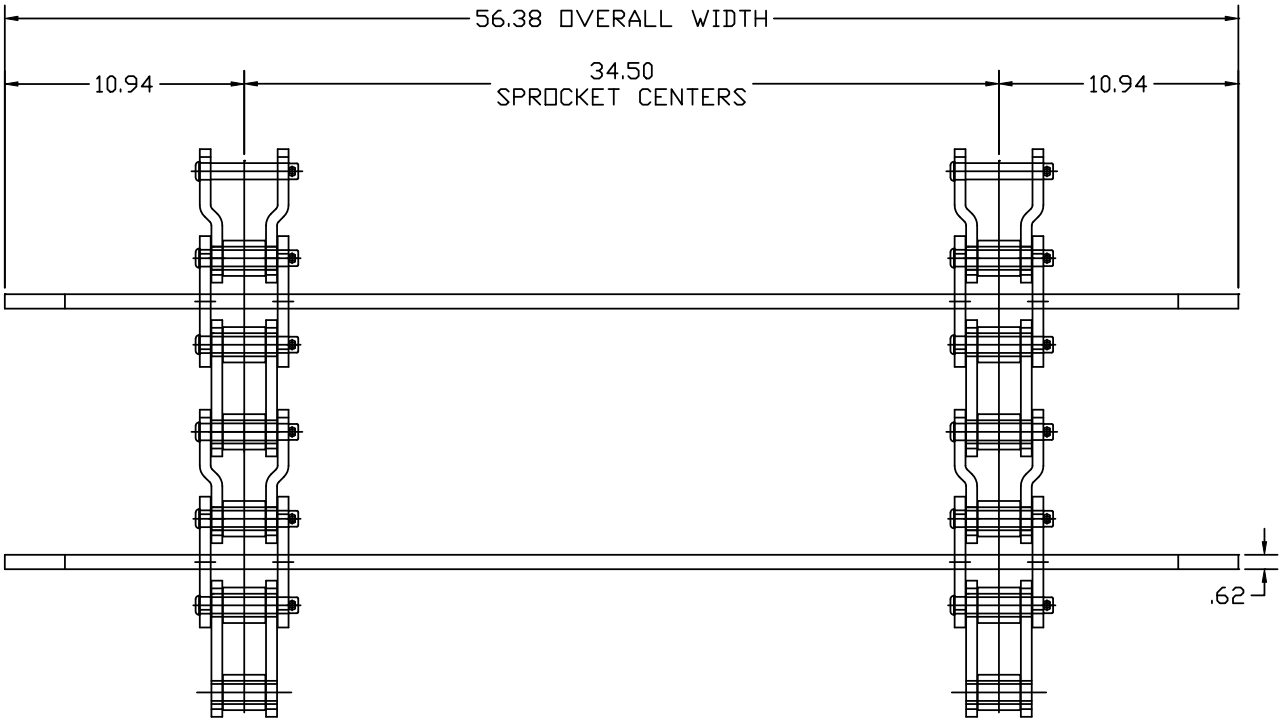


C-1 CONVEYOR ASSY.
(226983-01)

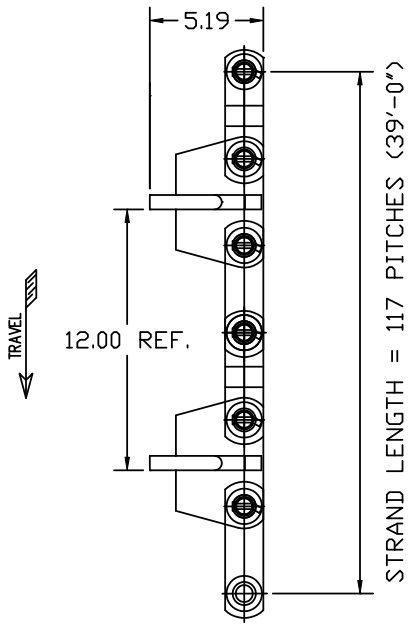
ITEM #	PART NO.	DESCRIPTION	QTY.
1	223774-01	WELDMENT - C-1 CONVEYOR	1
2	223789-01	SUB-ASSEMBLY - C-1 HEADSHAFT & TAKE-UP	1
3	223790-01	SUB-ASSEMBLY - C-1 FOOTSHAFT AND AUGER	1
4	226830-01	SUB-ASSEMBLY - C-1 WEAR PLATES	1
5	200733-01	SUB-ASSEMBLY - C-1 GREASE LINES	1
6	214495-01	SUB-ASSEMBLY - C-1 TOP COVER AND FXS	1
7	223153-01	SUB-ASSEMBLY - C-1 DUMP HOPPER	1
8	221906-01	SUB-ASSEMBLY - C-1 BAFFLE	1
9	212468-01	SUB-ASSEMBLY - C-1 PUSH ROLLER	1
10	148085-01	SUB-ASSEMBLY - C-1 CASTER AND SKID RUNNER	1
11	207690-01L	WELDMENT - C-1 GUARD RAIL, LH	1
12	207690-01R	WELDMENT - C-1 GUARD RAIL, RH	1
13	207691-01	WELDMENT - C-1 CYLINDER PROP	2
14	207381-03	C-1 FLASHING	1
15	129384-03	CHAIN INSPECTION COVER	1
16	99159-03	CLAMP BAR, C-1 FLASHING	1
17	27D87	PIN - COTTER 3/8" X 3 1/2"	2
18	200734-04	C-1 CYLINDER STOP	2
19	85147	FLAT WASHER - 5/8" (USS 1 3/4" OD)	2
20	99165-04	PIN, C-1 PIVOT	2
21	144993-04	LYNCH PIN, 3/16	2
22	83754	HEX BOLT, 1/2 - 13 X 1	2
23	83317	LOCK WASHER, 1/2"	25
24	136743-04	FLAT WASHER, 1/2", SCREED	2
25	128462	BOLT - CSK FLAT 1/2" - 13 X 1"	4
26	223575-03-C1	CONNECTING PIN FOR C1 & C2	2
27	223575-03-C3	KEEPER PIN C1, C2,C3 1" LONG	2
28	89142	HEX BOLT - 1/2-13 UNC X 1 3/4"	23
29	145488-01	WLDMT - C1 IDLER SHAFT	4
30	99364-03	BEARING MOUNTING PLATE	4
31	88993-04	IDLER BEARING, 2 7/16"	8
32	129097	NUT - 3/8 - 16 WING	2
33	89143	BOLT - HEX 5/8" - 11 UNC X 1 3/4"	32
34	223580-02	C-1 CHAIN ASSEMBLY, SB-2500D	1
35	129238-03	CANVAS CLAMP BAR, C-1 END	1
36	204707-03	CANVAS CLAMP BAR, SIDE	4
37	89987-04	WING BOLT, 3/8 - 16 X 1	17
38	83757	FLAT WASHER, 3/8	19
39	201154-03	C-1 CONTROL MANIFOLD COVER	1
40	84717	LOCK WASHER - 5/8" SPRING STEEL	36
41	85148	HEX NUT - 5/8-11 GRADE 8	4
42	93122	HEX NUT - 5/8-11 X 2 1/4"	4
43			
44			
45			

ASSEMBLY - C1 CHAIN
(223580-02)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	223580-02-C1	CONNECTING PIN	REF
2	223580-02-C2	3-PITCH SECTIONS	REF
3	223580-02-C3	KEEPER PIN	REF
4			
5			



WELD SIZE TO BE
± 1/16"

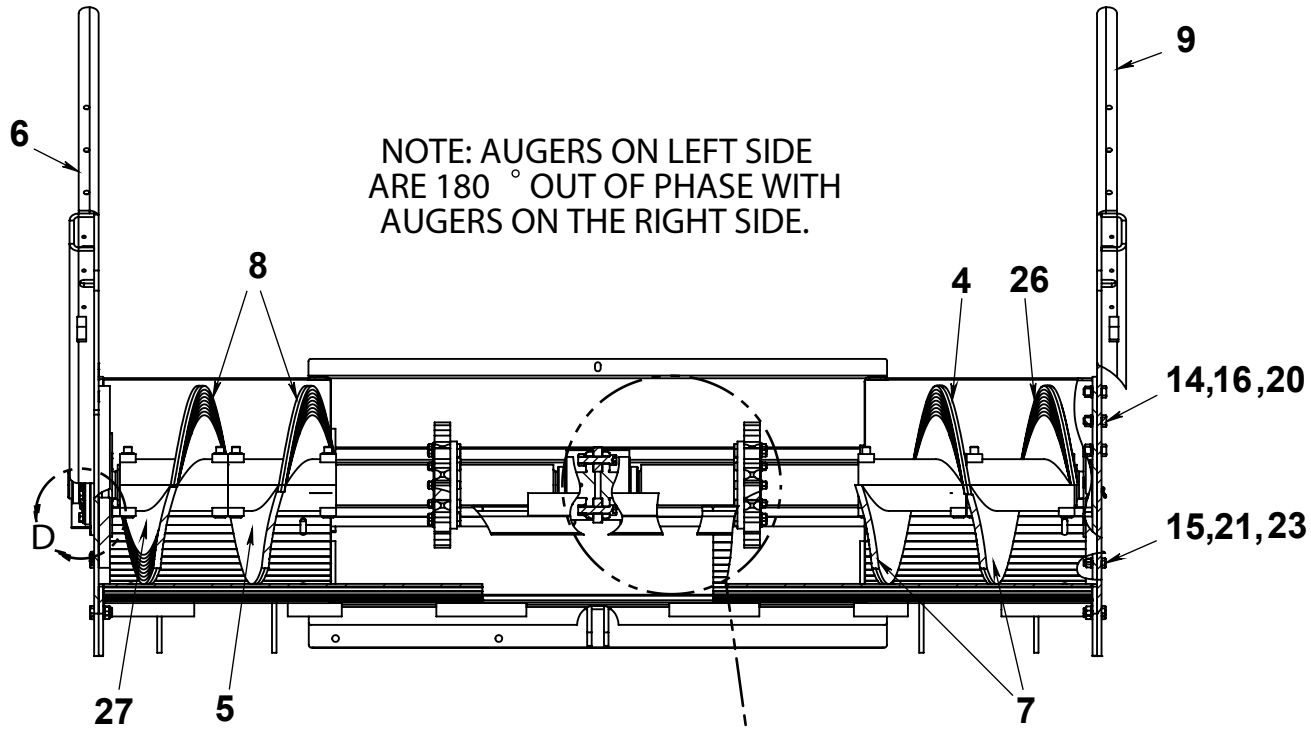


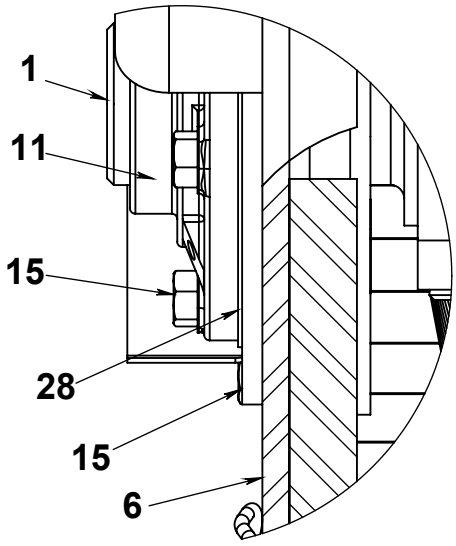
FOR PLAIN CHAIN DIMENSIONS
AND SPECIFICATIONS SEE
DRAWING # C2846

ULTIMATE STRENGTH	PART	MATERIAL	TREATMENT
84,000 LBS.	SIDEBARS	CARBON STEEL	HEAT-TREATED
WORKING LOAD	PIN	ALLOY STEEL	INDUCTION HARDEN
7,200 LBS.	BUSHING	ALLOY STEEL	CASE HARDEN
WEIGHT PER FOOT	ROLLER	ALLOY STEEL	CASE HARDEN
18.0 LBS.			
NO. LINKS IN 10 FEET			
30			

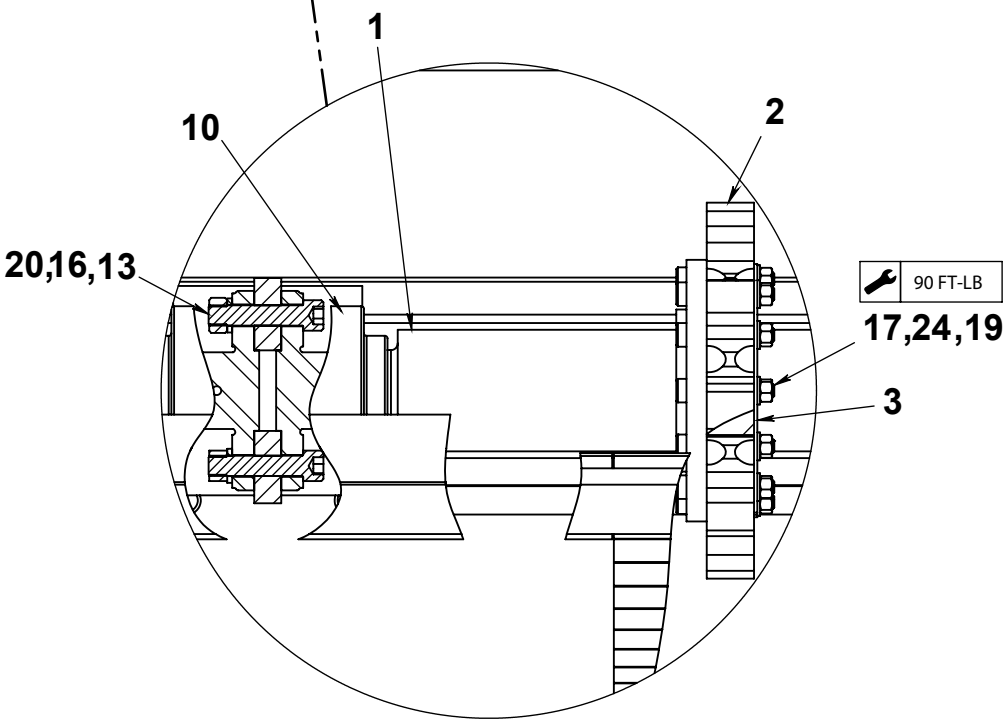
ASSY., C1 FOOTSHAFT & AUGER
(223790-01)

NEXT PAGE





DETAIL D

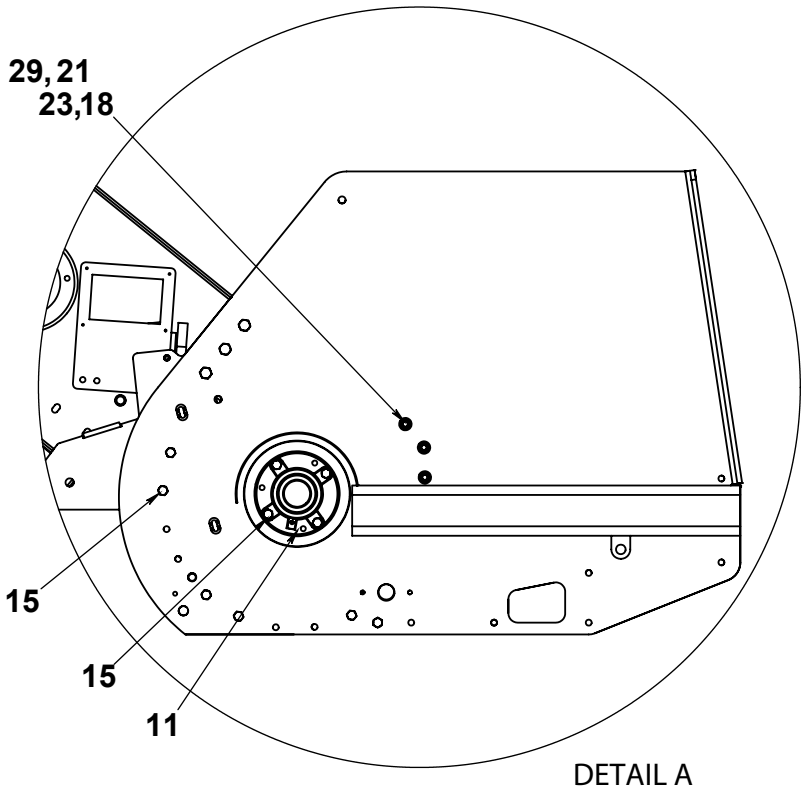


DETAIL B

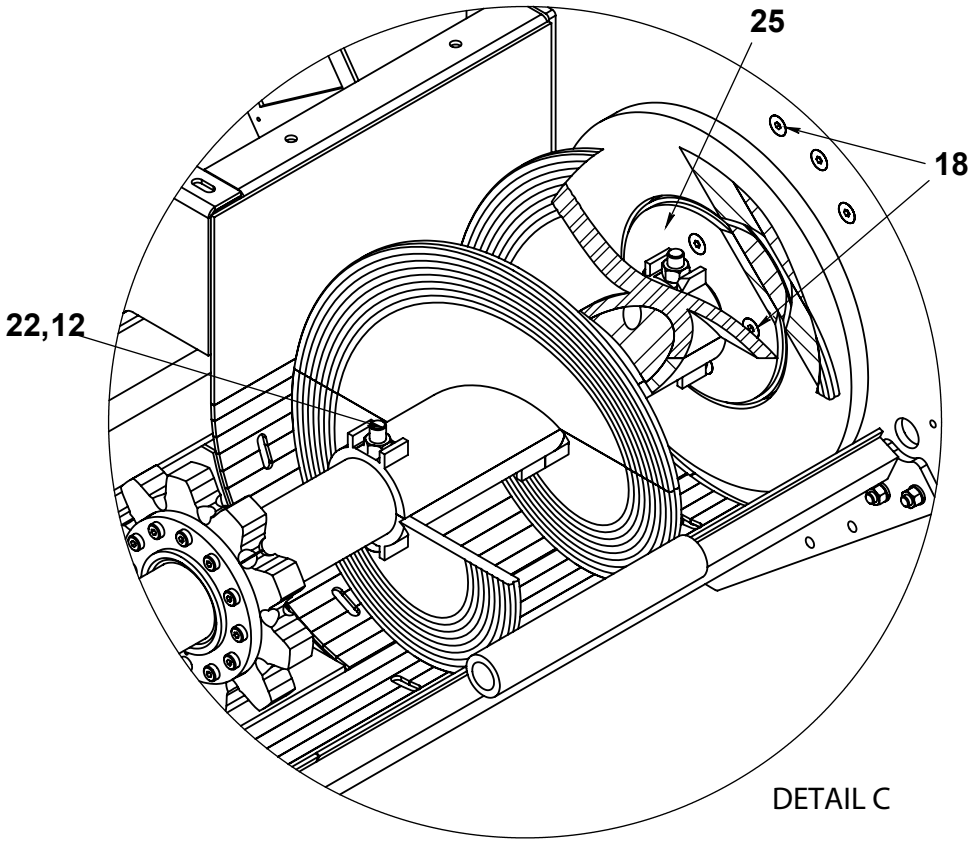
ROADTEC
an Astec Industries Company

PREVIOUS PAGE

ASSY., C1 FOOTSHAFT & AUGER
(223790-01)



DETAIL A

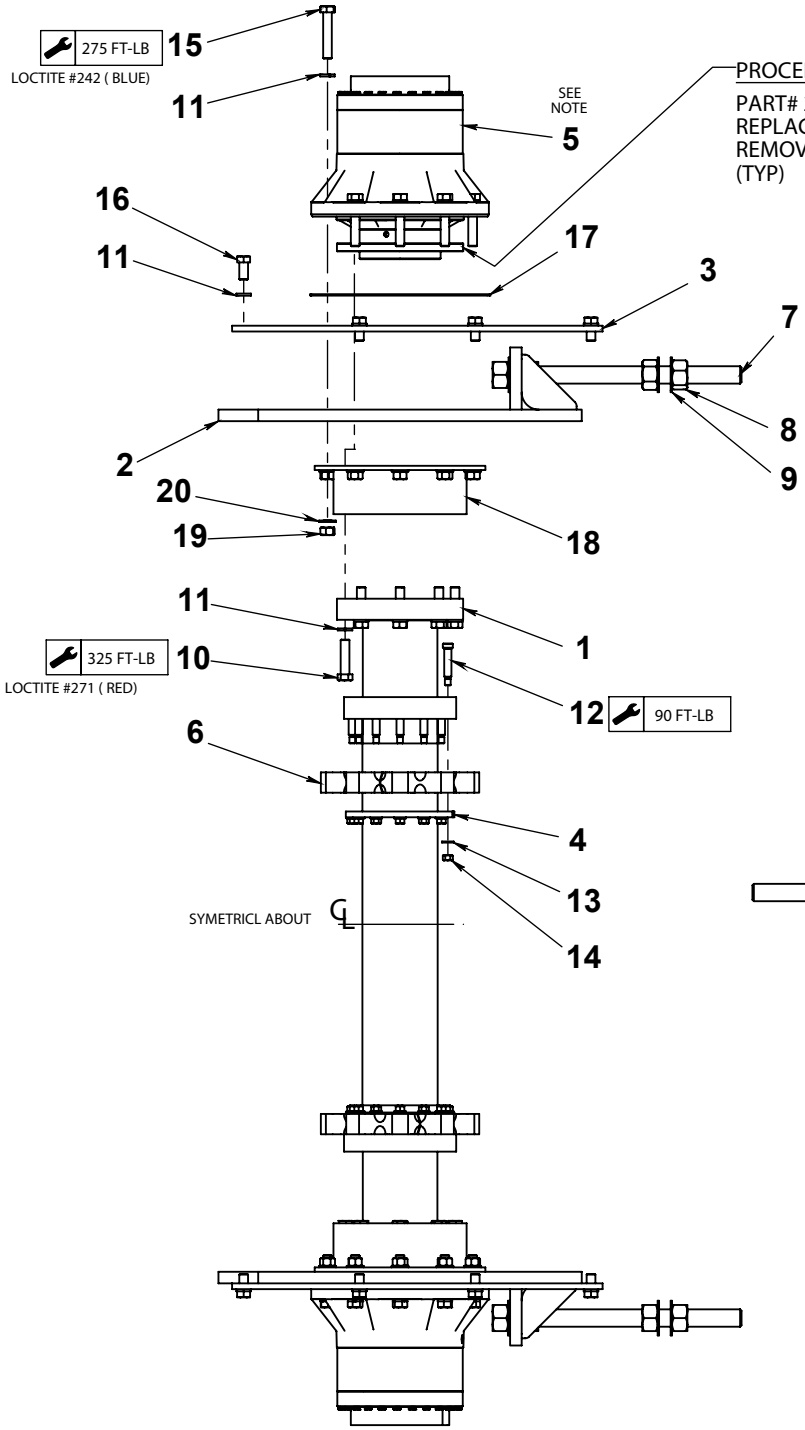


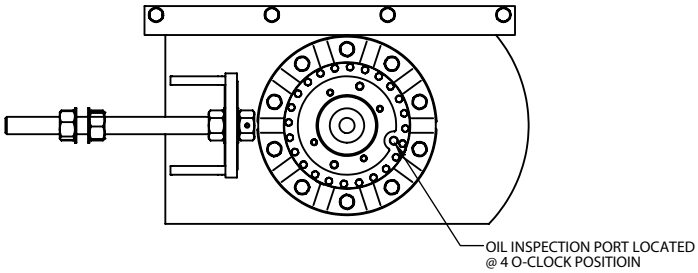
DETAIL C

C1 FOOTSHAFT & AUGER ASSY. (223790-01)

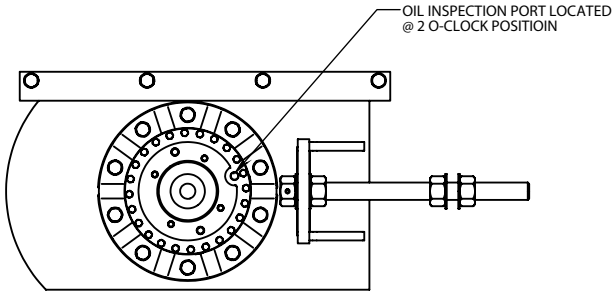
ITEM #	PART NO.	DESCRIPTION	QTY.
1	223800-03	WLDMT & MACH - C1 FOOTSHAFT	2
2	223577-02	SPROCKET - C1 & C2 FOR LRG ROLLER CHAIN	2
3	223784-04	DETAIL - SPROCKET COVER PLATE	4
4	200308-01	FLIGHT - 12" RIGHT PITCH, LEFT SIDE	1
5	200310-01	FLIGHT - 12" LEFT PITCH, RIGHT SIDE	1
6	216486-01	WLDMT - RH C1 HOPPER ENDPLATE	1
7	200309-01	FLIGHT - 12" RIGHT PITCH, LEFT SIDE	2
8	200311-01	FLIGHT - 12" LEFT PITCH, RIGHT SIDE	2
9	216487-01	WLDMT - LH C1 HOPPER ENDPLATE	1
10	29M98	BEARING - FLANGED 3" 4-BOLT	2
11	122266-04	BEARING - ROLLER 3" DIA.	2
12	200318	SOC. HD. SCREW - 7/8-9 X 7"	8
13	141568	SOC. HD SCREW - 3/4-10 X 3 1/2"	4
14	93071	HEX BOLT - 3/4-10 X 2" LG	6
15	96041	HEX BOLT - 5/8-11 X 2"	20
16	84071-04	HEX NUT - 3/4-10 ASTM 563 A GR8	10
17	138651-04	SHOULDER BOLT - 5/8 X 2 1/2"	24
18	91223-04	CSK BOLT - 5/8-11 X 1 3/4"	14
19	10D63	HARD WASHER - 1/2" A325	24
20	83752-04	LOCK WASHER - 3/4" SPRING STEEL	10
21	84717	LOCK WASHER - 5/8" SPRING STEEL	18
22	123058-04	LOCK NUT - 7/8-9 TOP GR8	8
23	85148	HEX NUT - 5/8-11 GR8	18
24	139741-04	CENTER LOCK NUT - 1/2-13 GR8	24
25	212485-03	DETAIL - COVER PLATE	2
26	218675-01	FLIGHT - 12" RIGHT PITCH, LEFT SIDE, DUAL HARD	1
27	218673-01	FLIGHT - 12" LEFT PITCH, RIGHT SIDE, DUAL HARD	1
28	222826-03	DETAIL - OUTER BEARING SPACER	2
29	26F83	FLAT WASHER - 5/8" A325 (1 5/16 OD) HW	6
30			

ASSY., C1 HEADSHAFT & TAKE-UP
(223789-01)





LEFT SIDE OF MACHINE

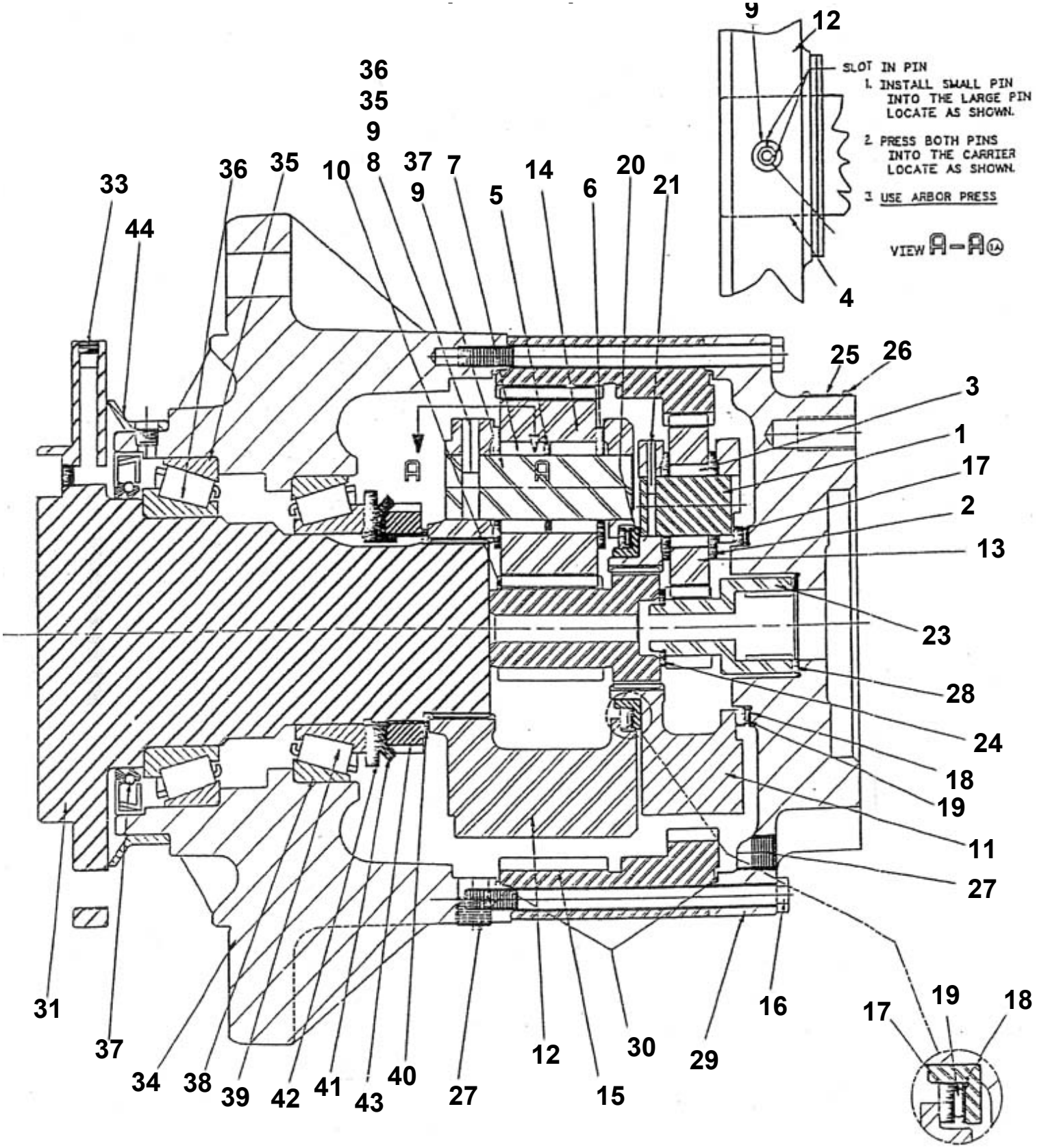


RIGHT SIDE OF MACHINE

C1 HEADSHAFT & TAKE-UP ASSY. (223789-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	223801-01	WLDMT - C1 CONVEYOR HEADSHAFT	1
2	222286-01	DETAIL - C1 CONV. TAKE-UP BRACKET	2
3	215750-03	DETAIL - UPPER KEEPER BAR	2
4	223784-04	DETAIL - SPROCKET COVER PLATE	4
5	29E38	PLANETARY SPEED REDUCER	2
6	223577-02	SPROCKET - C1 & C2 FOR LRG ROLLER CHAIN	2
7	222306-04	ASSY - TAKE-UP SCREW	2
8	83031	HEX NUT - 1 1/2-6 GR8	6
9	83032	FLAT WASHER - 1 1/2" N SERIES	8
10	122336	HEX BOLT - 3/4-16 X 3" GR8	16
11	83752-04	LOCK WASHER - 3/4" SPRING STEEL	44
12	138651-04	SHOULDER BOLT - 5/8 X 2 1/2	24
13	10D63	HARD WASHER - 1/2" A325	24
14	139741-04	CENTER LOCK NUT - 1/2-13 GR8	24
15	94716	HEX BOLT - 3/4-10 X 4" FULL THREAD	20
16	95932	HEX BOLT - 3/4-10 X 1 1/2"	8
17	211345-03	DETAIL - C1 HEADSHAFT SPACER	4
18	223785-01	WLDMT - C1 DRIVE BOOT GUARD	4
19	88164	LOCK NUT - 3/4-10 TOP GR8	20
20	95937	FLAT WASHER - 3/4" HARD	20
21			
22			
23			
24			
25			

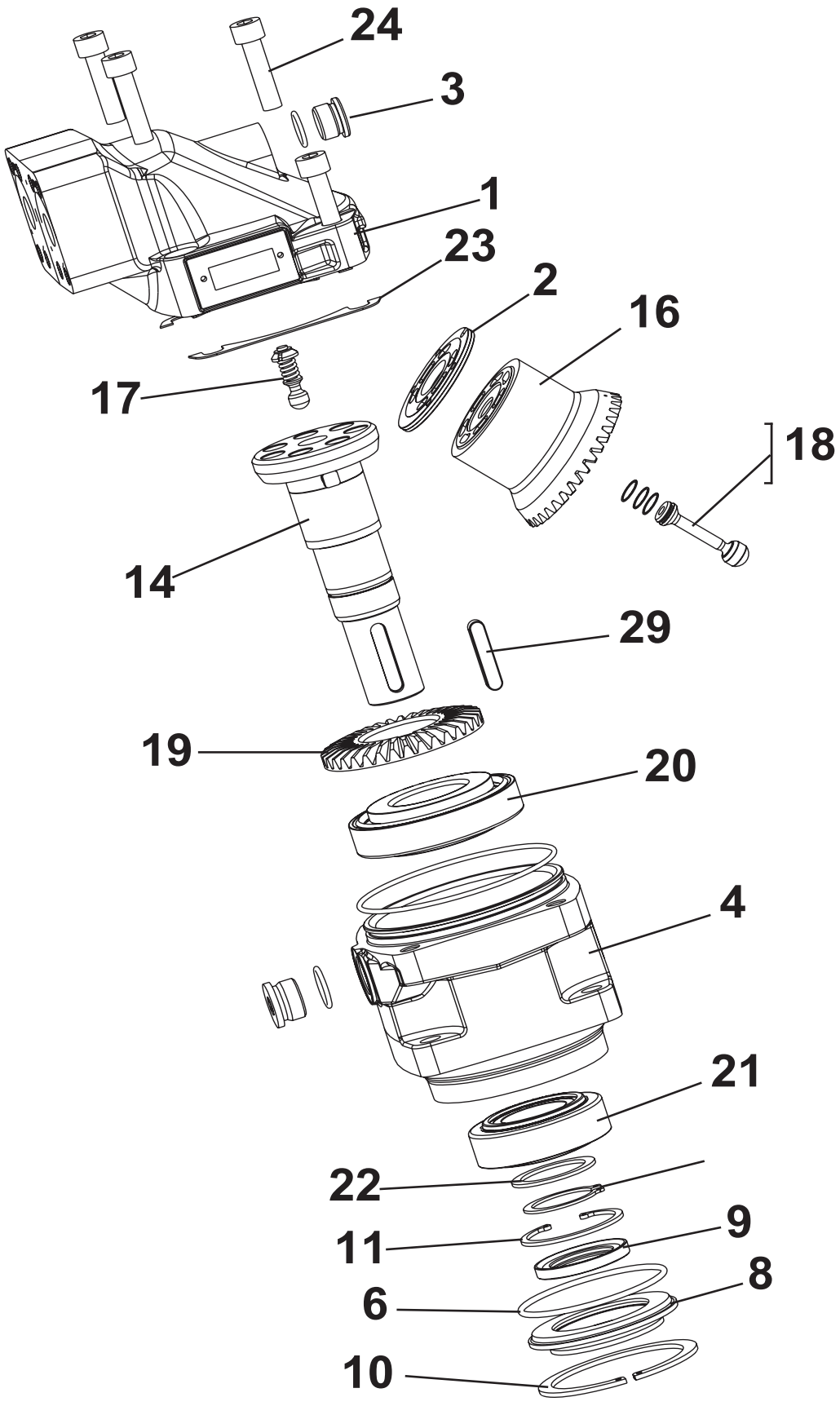
C-1 & C-3 DRIVE GEARBOX
(29E38)



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

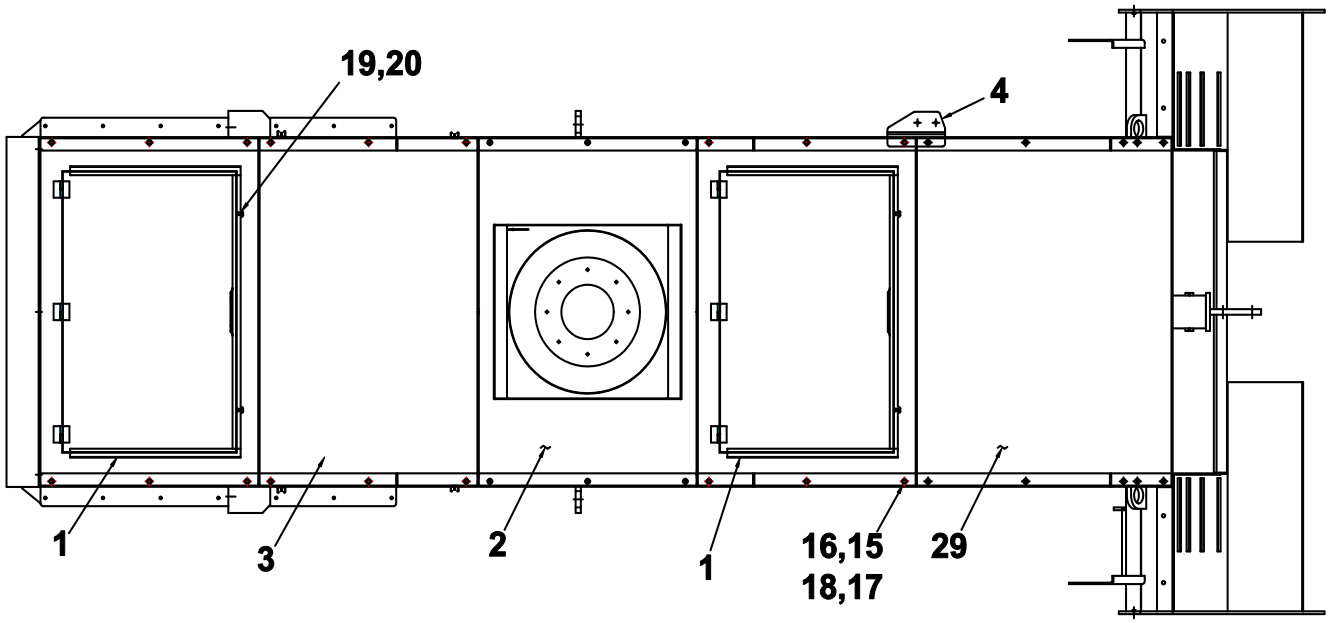
C-1 CONVEYOR DRIVE MOTOR
(142642-04) With two tappered roller bearings

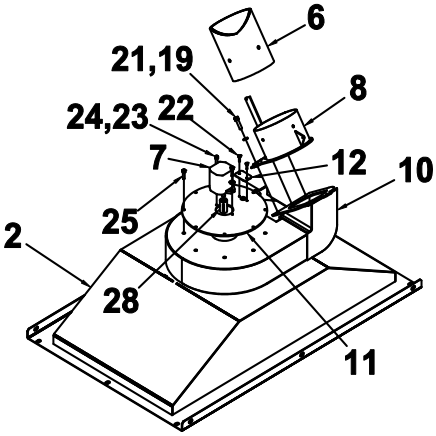


C-1 CONVEYOR DRIVE MOTOR
(142642-04)

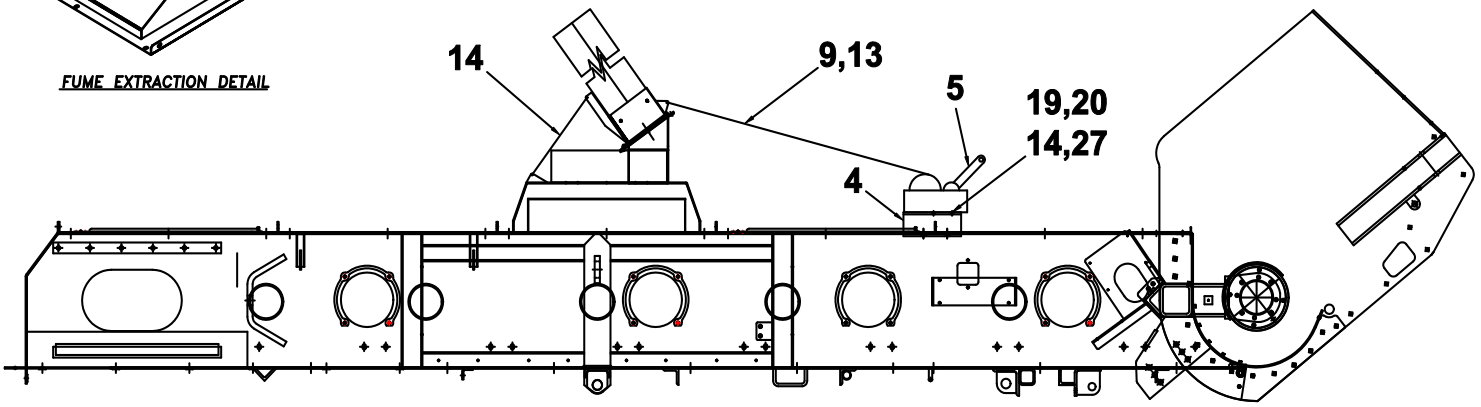
ITEM #	PART NO.	DESCRIPTION	QTY.
1	142642-04-C8	BARREL HOUSING	1
2	142642-04-C9	VALVE PLATE	1
3	142642-04-C10	HEX SOCKET PLUG	1
4	142642-04-C11	BEARING HOUSING	1
5	142642-04-C12	O-RING	1
6	142642-04-C13	O-RING	1
7	142642-04-C14	O-RING	1
8	142642-04-C15	SEAL CARRIER	1
9	142642-04-C16	SHAFT SEAL	1
10	142642-04-C17	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			

C-1 CONVEYOR TOP COVER & FXS ASSEMBLY
(214495-01)





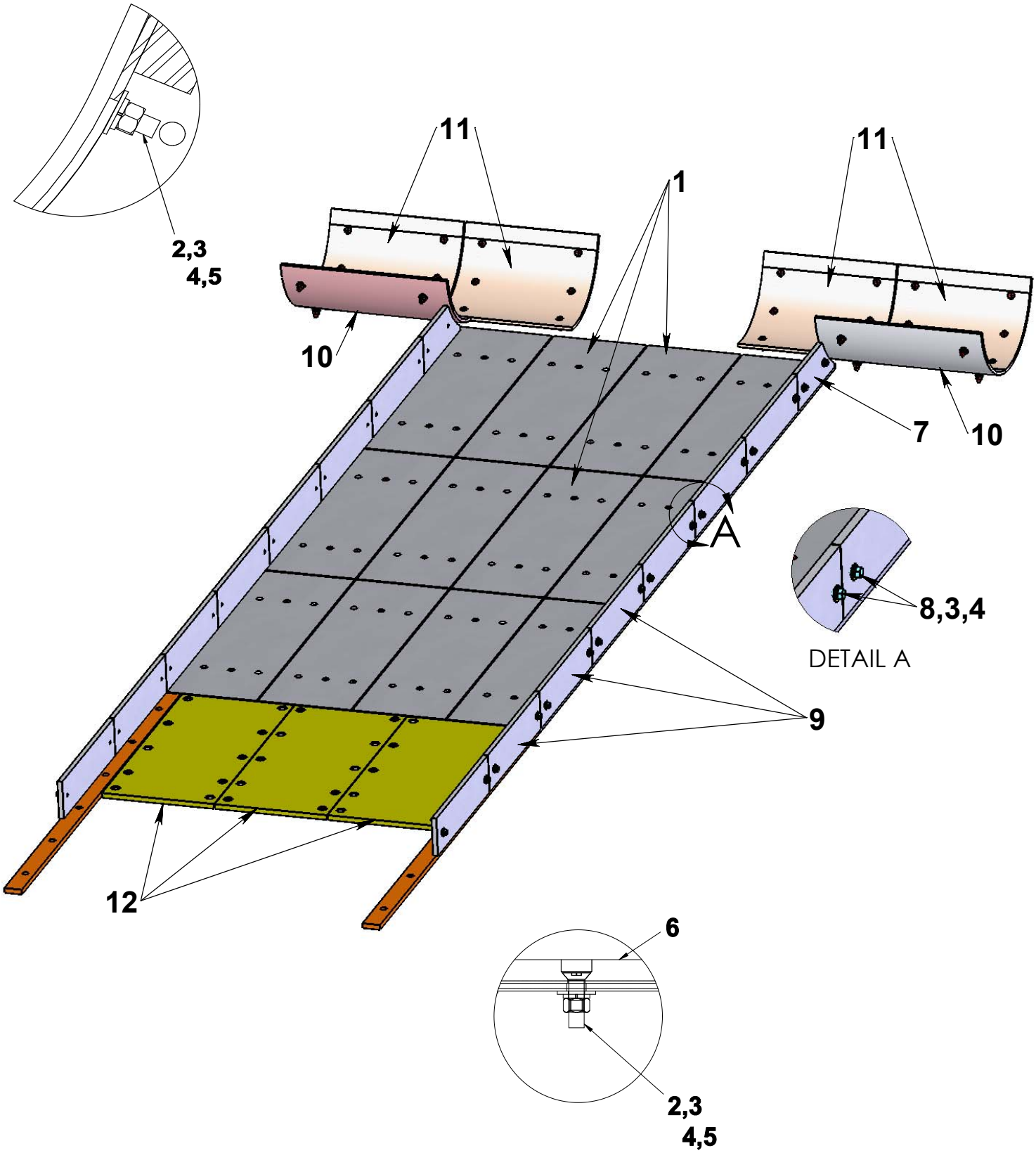
FUME EXTRACTION DETAIL



C-1 CONVEYOR TOP COVER & FXS ASSEMBLY
(214495-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214648-01	TOP COVER PLATE WLDMT.	2
2	214649-01	TOP COVER FXS WLDMT.	1
3	214501-01	TOP COVER PLATE	1
4	148021-03	WINCH MOUNTING BRACKET	1
5	142469-04	WINCH - 600 LBS	1
6	129227-03	VENT PIPE	1
7	134229-04	MOTOR, HYD. 1.02 CID, (SUND)	1
8	134543-02	FAN SHROUD VENT EXTENSION	1
9	127709	CABLE - 1/8" AIRCRAFT	108
10	129135-01	C1 BLOWER SHROUD	1
11	134686-04	BLOWER MOTOR MOUNTING PLATE (SUND)	1
12	134687-04	INSPECTION COVER	1
13	142600-04	CRIMP, 1/8" WIRE ROPE	2
14	133967-04	SPRING, 1/2 OD, 10" LONG, 1/16 WIRE	1
15	86164	HEX BOLT, 1/2 - 13 X 1 1/4	27
16	83781-04	FLAT WASHER, 1/2	75
17	83317	LOCK WASHER, 1/2	29
18	83288	HEX NUT, 1/2 - 13 GR 8	29
19	83056	LOCK WASHER, 3/8	12
20	83055	HEX NUT, 3/8 - 16 GR 8	6
21	84332	HEX BOLT, 3/8 - 16 X 1	6
22	83114	HEX BOLT, 1/4 - 20 X 1/2	2
23	92235	LOCK NUT, 3/8	2
24	96476	HEX BOLT, 3/8 - 16 X 1 1/4	4
25	86127-04	HEX BOLT, 3/8 - 16 X 3/4	18
26			
27	83757	FLAT WASHER, 3/8	6
28	130665-04	BUSHING & KEY	1
29	215923-01	C-1 TOP COVER	1

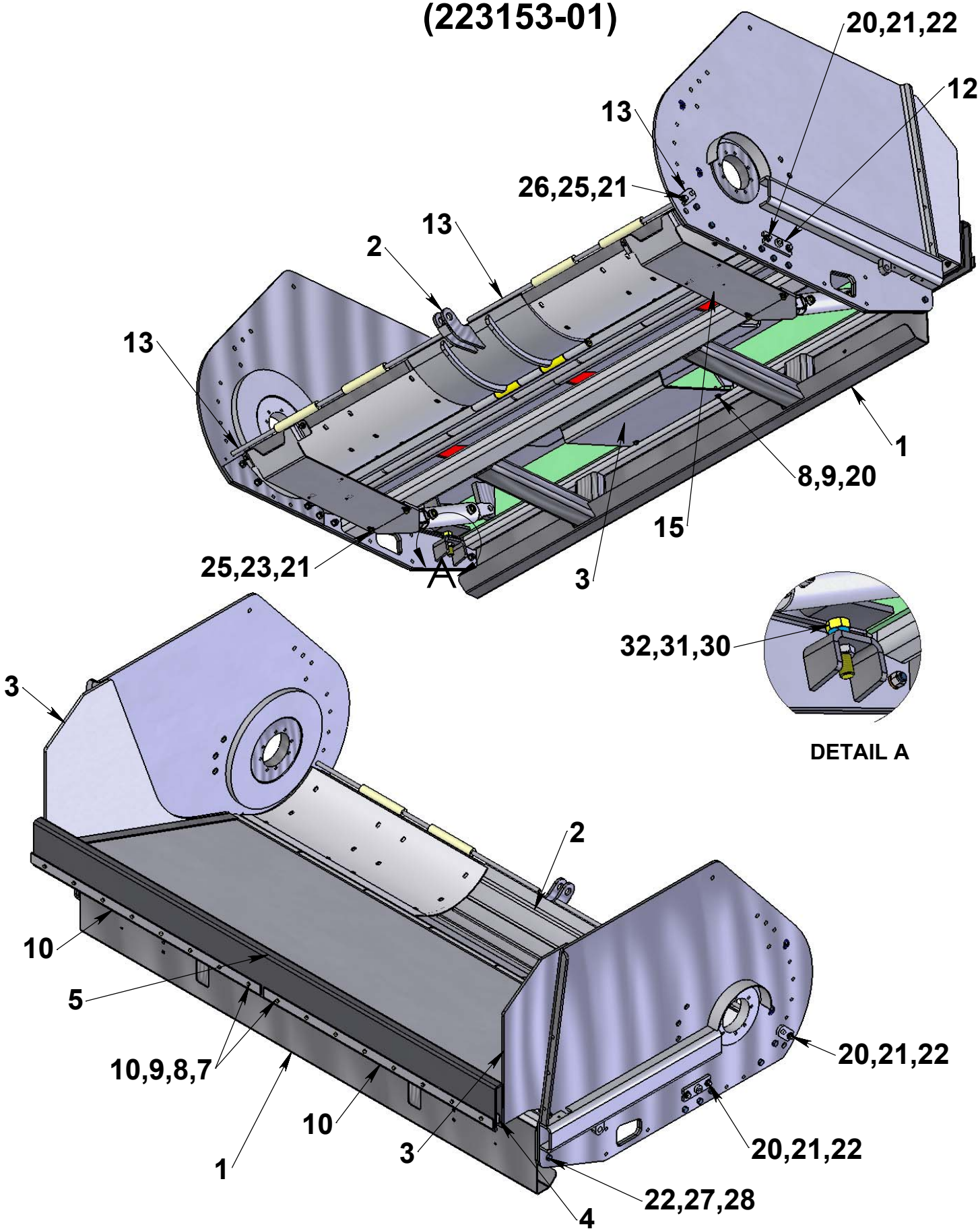
ASSY-C1 WEAR PLATE-SB-2500D
(226830-01)



ASSY-C1 WEAR PLATE-SB-2500D (226830-01)

ITEM #	PART #	DESCRIPTION	QTY
1	98961-03	C-1 LINER PLAT, CASTING NI-HARD	12
2	29C18	BOLT , CSK 1/2"-13 X 1 3/4"	80
3	83781-04	WASHER * FLAT 1/2" STEEL	112
4	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	112
5	83288	NUT * 1/2"-13 HEX GRADE 8	80
6	222279-01	REAR C1 FLOOR LINER	2
7	200668-03	FRONT C1 SIDE LINER	2
8	86164	BOLT * HEX 1/2"-13 X 1 1/4"	32
9	149877-03	SIDE LINER FOR C-1/C-2	14
10	223275-03	LINER - SB2500D C1 UPPER AUGER	2
11	223276-03	LINER - SB2500D LOWER AUGER	4
12	BN-906-7143	C-2 NI-HARD LINER	3

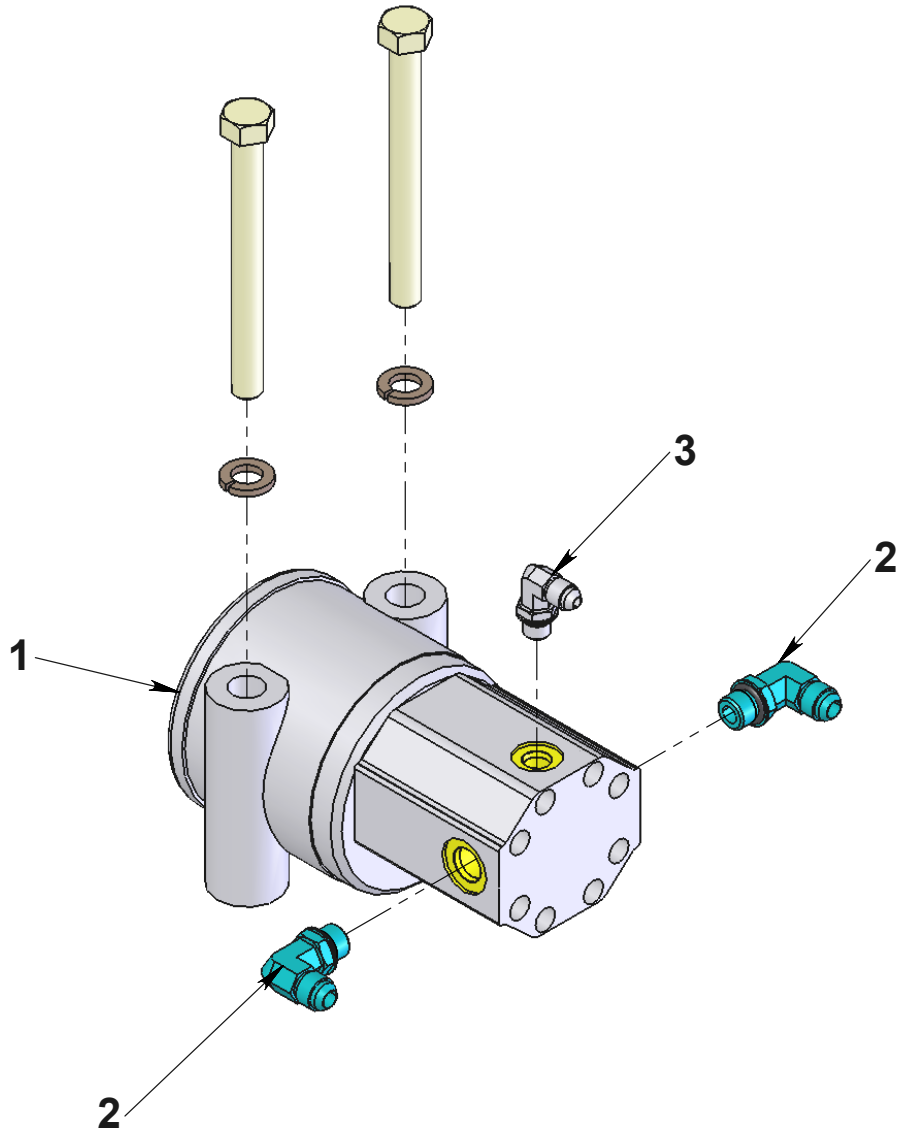
ASSEMBLY - C1 DUMP HOPPER
(223153-01)



ASSEMBLY - C1 DUMP HOPPER
(223153-01)

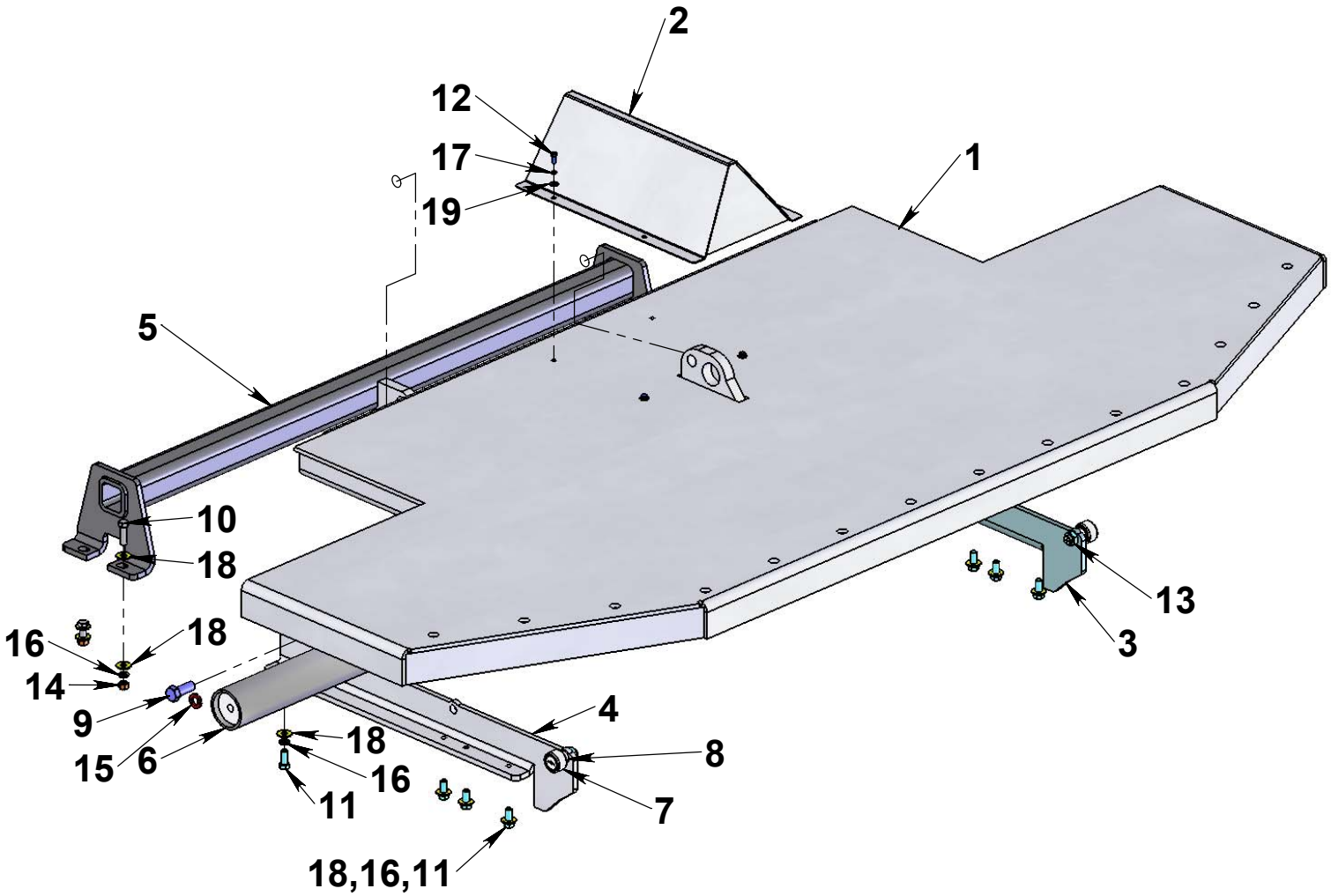
ITEM #	PART #	DESCRIPTION	QTY
1	223151-01	WELDMENT - C1 HOPPER UNDERCARRIAGE	1
2	207708-01	WELDMENT, C-1 CLEANOUT DOOR	1
3	223152-01	WELDMENT-DUMP HOPPER	1
4	143620-03	FLASHNG.SUPPORT WLD.(C1 DUMP HOPPR)	2
5	99218-02	RUBBER FLASHING	1
6	121809	BOLT * HEX 3/8"-16 X 3 1/2"	16
7	83757	WASHER ~ FLAT 3/8 STEEL	23
8	83056	WASHER ~ LOCK 3/8 SPRING STEEL	23
9	83055	NUT * 3/8-16 HEX GRADE 8	16
10	96008-03	RUBBER RETAINING BAR	2
11	214654-01	VIBRATOR ASSEMBLY	1
12	223190-03	WELDMENT-DUMP HOPPER HINGE PIN	2
13	148045-03	WLDT- PIVOT PIN (HOPPER)	2
14	148051-03	WLDT-C1 CLEANOUT DOOR HINGE PIN	1
15	223167-01	DETAIL ~ C1 HOPPER HOSE TRAY	2
16	133846	BEARING * SPHERICAL 1"BORE DIA.	4
17	96041	BOLT ~ HEX 5/8-11 x 2"	12
18	84717	WASHER ~ LOCK 5/8" SPRING STEEL	14
19	85148	NUT * 5/8"-11 HEX GRADE 8	14
20	83781-04	WASHER * FLAT 1/2" STEEL	6
21	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	14
22	83754	BOLT * HEX 1/2"-13 X 1"	6
23	10D63	WASHER ~ 1/2" HARD A325	8
24	83288	NUT * 1/2"-13 HEX GRADE 8	4
25	23V93	BOLT ~ HEX 1/2"-13 x 3/4"	4
26	16p29	CLAMP * BOLT SIZE 1/2"HOSE	5
27	12Y31	BOLT ~ HEX 3/8"-16 x 5/8"	5
28	136427	BOLT ~ HEX 3/8-16 UNC X 1 3/4" (FULL THR'D)	2
29	137265	SCREW * 5/8-11 X 2 SOC.HEAD	2
30	14S13	BOLT * HEX 1"-8 X 3 1/2"	2
31	98453	NUT * HEX 1-8 UNC * GRADE 8 (98453)	2
32	88445-04	NUT * 1"-8 UNC JAM	2

VIBRATOR ASSEMBLY
(214654-01)



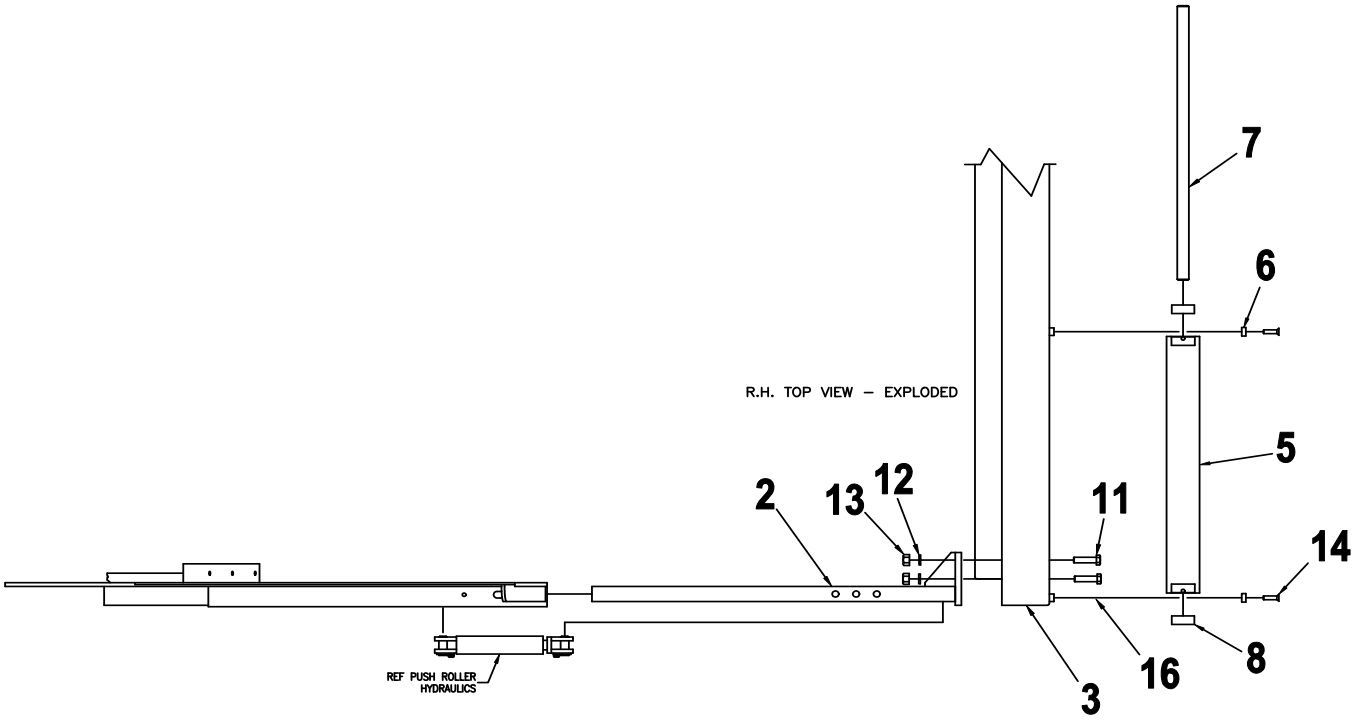
ITEM #	PART #	DESCRIPTION	QTY
1	149125-04	HYD.DRIVEN VIBRATOR 782 LB 9000 RPM	1
2	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	2
3	83743-04	ELBOW 90 DEG M W_NUT, WASHER, O-RING 4 JIC - 4 SAE	1

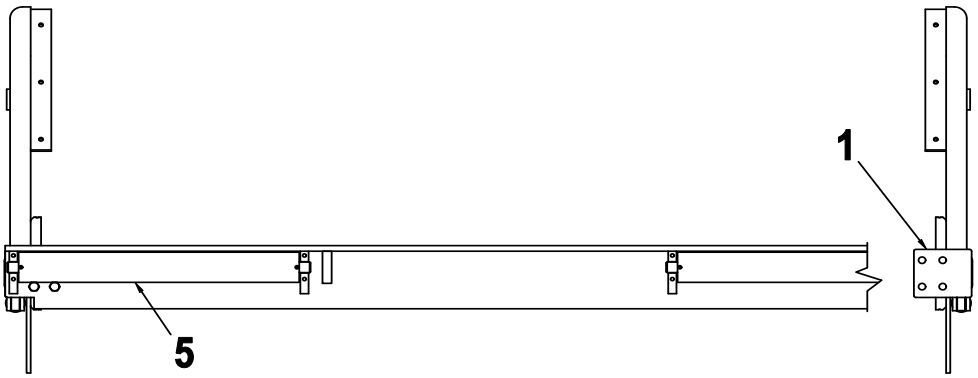
ASSY-C1 BAFFLE
(221906-01)

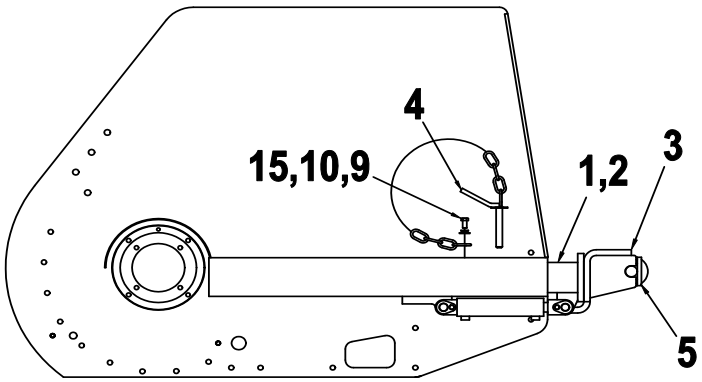


ITEM #	PART #	DESCRIPTION	Default/ QTY
1	221899-01	WELDMENT-BAFFLE-SB-2500D	1
2	141583-01	WELDMENT, HYDRAULIC CYLINDER COVER	1
3	210188-03	DETAIL-LH BAFFLE GUIDE-SB-2500C	1
4	210189-03	DETAIL-RH BAFFLE GUIDE-SB-2500C	1
5	210182-01	WLDT-BAFFLE CYLINDER SUPPORT-2500C	1
6	210540-03	WELDMENT-C1 SIDEWALL BRACE	1
7	137544-04	BEARING * CAM FOLLOWER	4
8	230888-04	DETAIL - SPACER FOR BAFFLE ROLLER	4
9	93071	BOLT ~ HEX 3/4"-10 x 2" LG.	2
10	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	4
11	86164	BOLT * HEX 1/2"-13 X 1 1/4"	8
12	89988-04	BOLT * HEX 1/4"-20 X 3/4"	4
13	97169	NUT * JAM 3/4"-16 RIGHT HAND THREAD	4
14	83288	NUT * 1/2"-13 HEX GRADE 8	4
15	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	2
16	83317	WASHER * LOCK 1/2" SPRING STEEL	12
17	83065	WASHER ~ LOCK 1/4" SPRING STEEL	4
18	83781-04	WASHER * FLAT 1/2" STEEL	16
19	84444	WASHER * FLAT 1/4" STEEL	4

HYDRAULIC PUSH ROLLER ASSEMBLY
(212468-01)



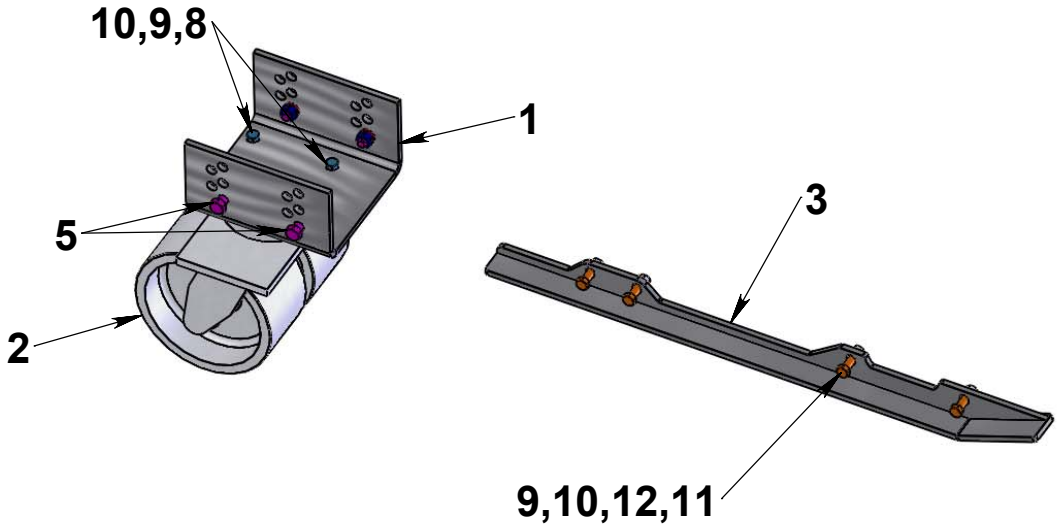


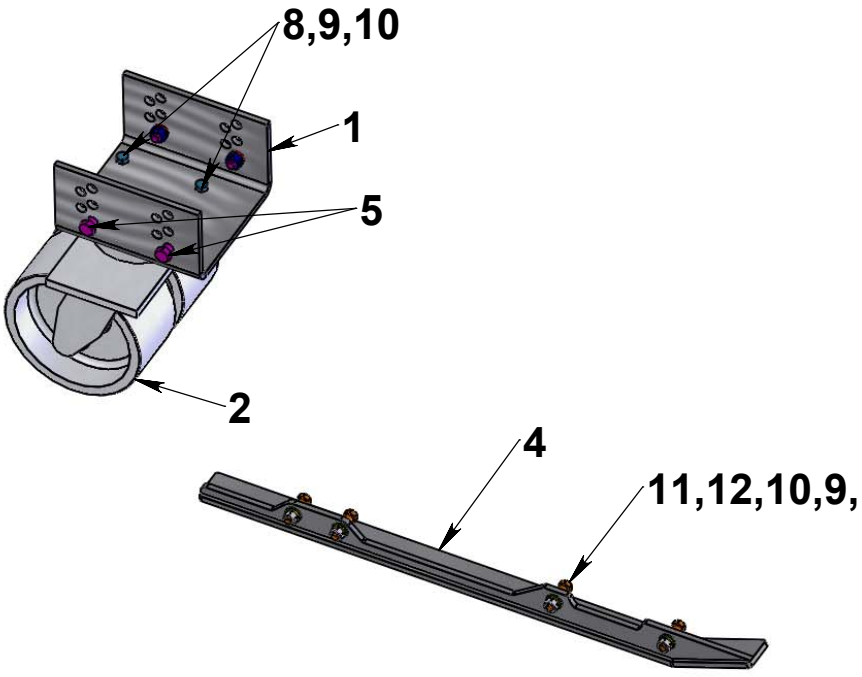


HYDRAULIC PUSH ROLLER ASSEMBLY
(212468-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	212467-01L	L.H. PUSH ROLLER SUPPORT	1
2	212467-01R	R.H. PUSH ROLLER SUPPORT	1
3	204743-01	PUSH ROLLER BEAM	1
4	148064-03	PUSH ROLLER LOCKING PIN	2
5	137441-02	34" PUSH ROLLER	2
6	149088-04	PUSH ROLLER LOCK BAR	4
7	134626-02	PUSH ROLLER SHAFT	2
8	84734-04	BEARING	4
9	10D63	FLAT WASHER 1/2"	2
10	83317	LOCKWASHER 1/2" SPRING STEEL	2
11	95930	BOLT, HEX 3/4 - 10 X 2 3/4"	8
12	83752-04	LOCKWASHER 3/4"	8
13	84071-04	NUT, HEX 3/4 - 10 GD. 8	8
14	26C72	HEX BOLT - 1/2-13 X 1 1/2 CSK	8
15	83754	BOLT, HEX 1/2 - 13 X 1"	2

SUB-ASSY-C1 CASTER & SKID RUNNER (148085-01)



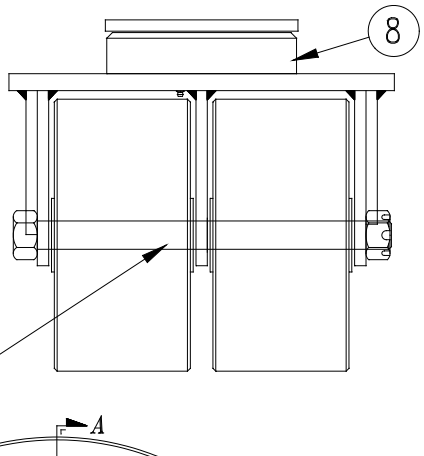


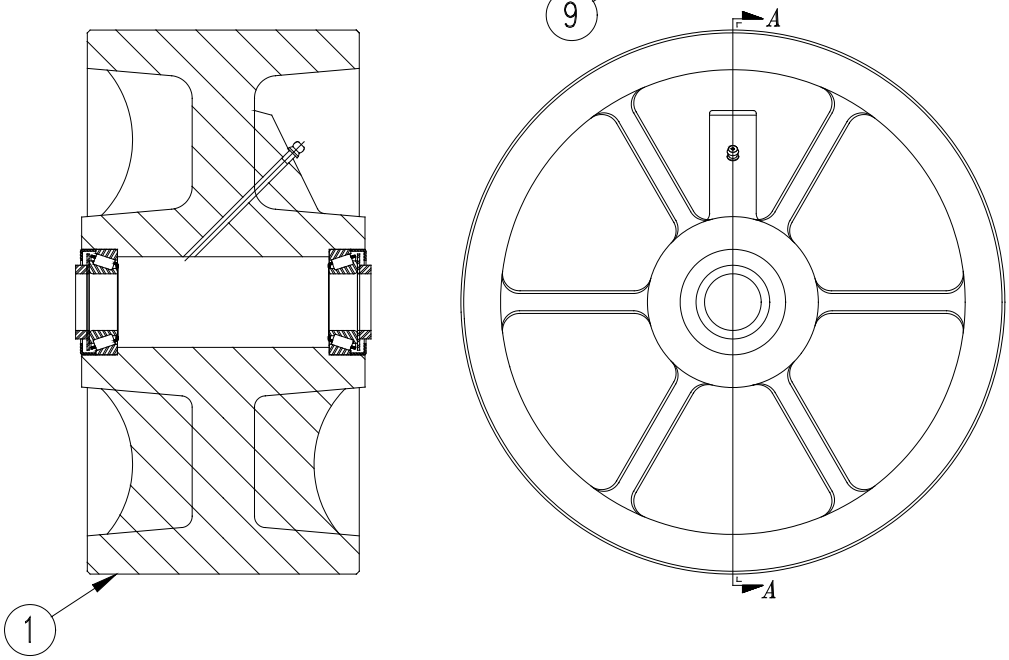
SUB-ASSY-C1 CASTER & SKID RUNNER (148085-01)

ITEM #	PART #	DESCRIPTION	QTY
1	142499-02	ADJUSTABLE CASTER MOUNTING PLATE	2
2	132001-04	CASTER * SWIVEL W/CAST IRON WHEELS	2
3	148096-01L	WELDMENT-LH SKID RUNNER-1500B	1
4	148096-01R	WELDMENT-RH SKID RUNNER-1500B	1
5	93189	BOLT * HEX 3/4"-10 X 2 1/4"	8
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	96041	BOLT ~ HEX 5/8-11 x 2"	8
9	84717	WASHER ~ LOCK 5/8" SPRING STEEL	16
10	85148	NUT * 5/8"-11 HEX GRADE 8	16
11	89252	BOLT * HEX 5/8"-11 X 2 1/2"	8
12	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	8

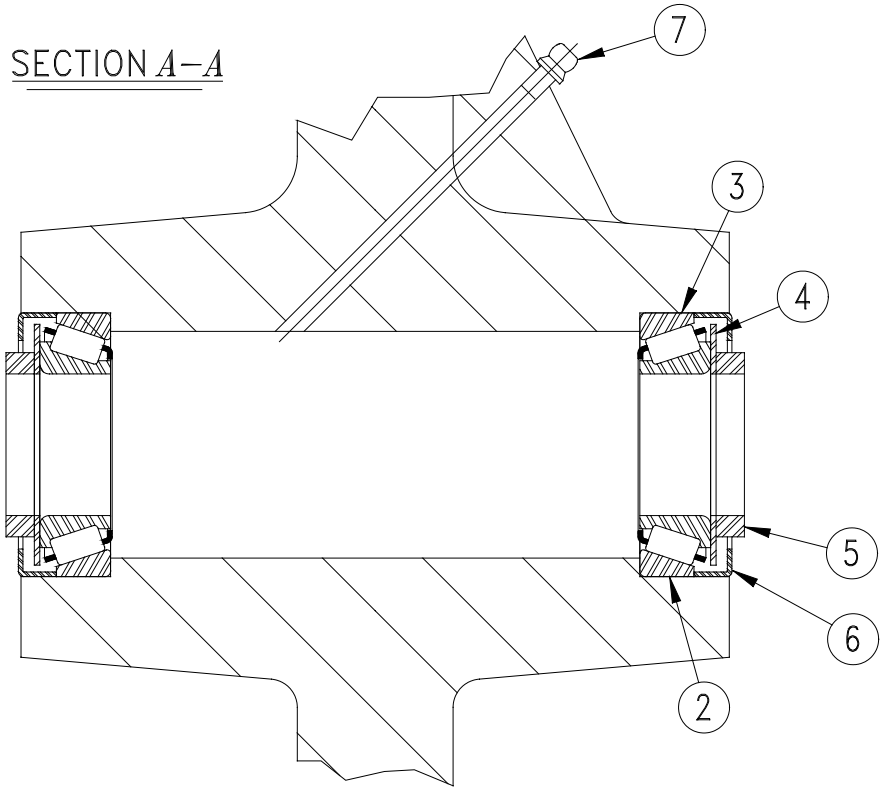
ROADTEC P/N 132001-04
RWM P/N PSB-100-F-15

ITEM	QTY	PART #	DESCRIPTION
1	1	132001-04-C7	WHEEL ASSEMBLY
2	2	132001-04-C3	BEARING-TIMKEN CONE-LM67048 1-1/4 ID x 2-2
3	2	132001-04-C2	BEARING-TIMKEN CUP-LM67010 1-1/4 ID x 2-2
4	2	132001-04-C4	53-LM67048 FLINGER WASHER
5	2	132001-04-C5	SPACER 1-1/4 x 1-15/8 x 1/4 LG.
6	2	132001-04-C6	16-LM67048 1-1/4 CLOSURES
7	1	132001-04-C9	ZERK .220 DR. STRAIGHT W/O BALL CHECK
8	1	132001-04-C8	FRAME
9	1	132001-04-C1	1 1/4 X 15 7/8 AXLE W/ NUT

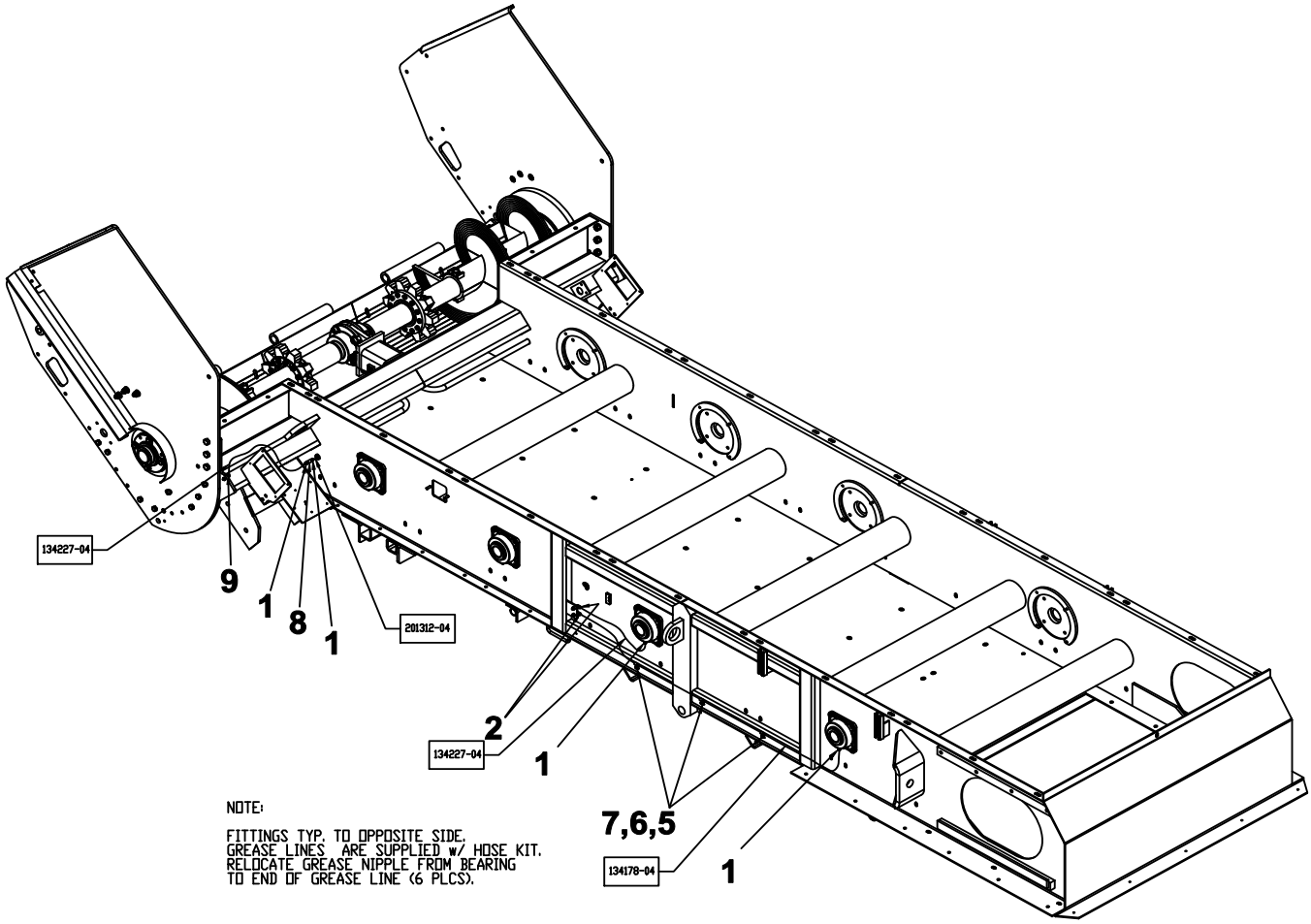


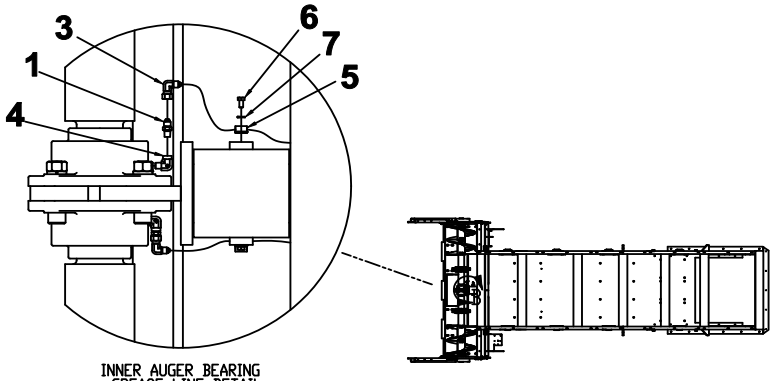


SECTION A-A



C-1 GREASELINE ASSEMBLY
(200733-01)

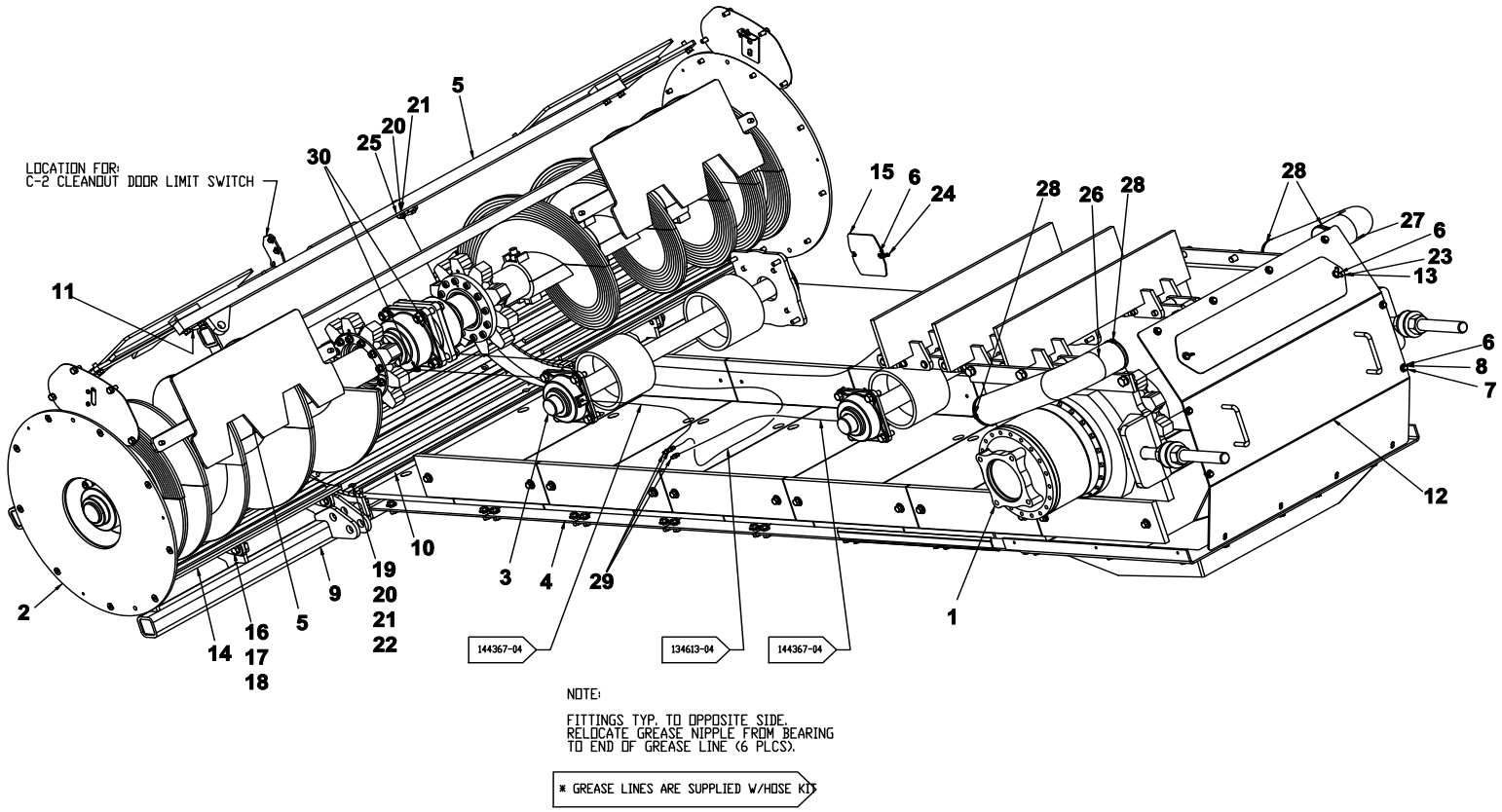




INNER AUGER BEARING
GREASE LINE DETAIL
DETAIL B

ITEM #	PART NO.	DESCRIPTION	QTY.
1	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M.	10
2	84560-04	FIT - ELBOW 4 JIC - 1/8" NPT 90° MALE	4
3	93043	FIT - ELBOW 4 JIC SWIVEL 90°	2
4	23J52	FIT - ELBOW 1/8" NPT M X 1/8" NPTF 90°	2
5	20K33	CLAMP - 3/8" DIA. X 1/2" WTH. X 1/4	9
6	83114	BOLT - HEX 1/4" - 20 X 1/2"	9
7	83065	WASHER - LOCK 1/4" SPRING STEEL	9
8	92792	COUPLING - PIPE 1/8" NPT	2
9	99509	FIT - 4 JIC M X 1/8" NPT M 45°	2

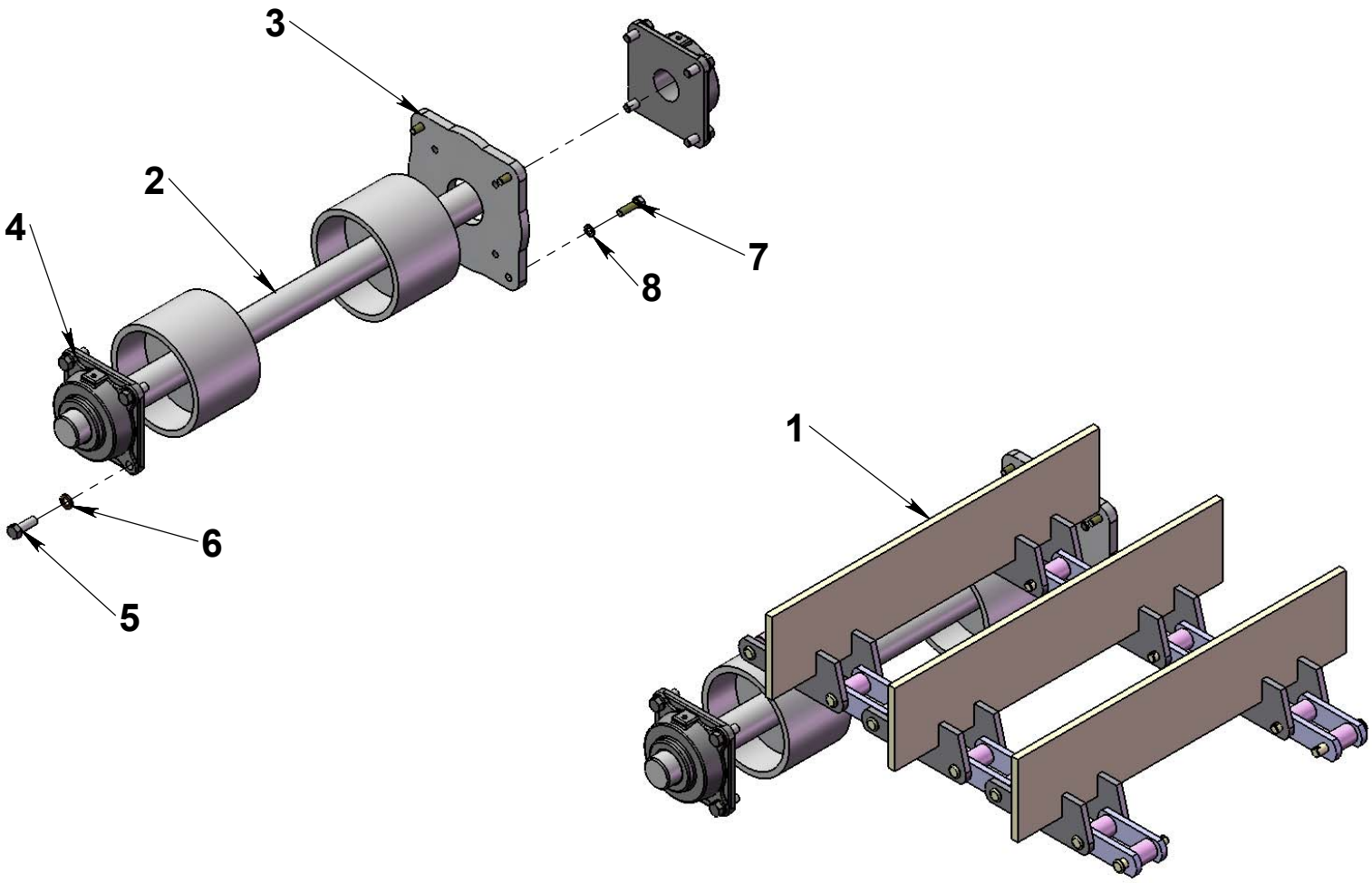
C-2 CONVEYOR ASSEMBLY
(231059-01)



ASSEMBLY - C2 CONVEYOR
(231059-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	229858-01	ASSEMBLY - C2 HEADSHAFT & TAKE-UP	1
2	223296-01	ASSEMBLY - C2 CONVEYOR FOOTSHAFT & AUGER	1
3	223297-01	ASSEMBLY - C2 CHAIN & IDLER	1
4	229755-01	ASSEMBLY - C2 LINER & BOTTOM PLATE	1
5	231060-01	ASSEMBLY - FLOW GATE	1
6	83757	WASHER - FLAT 3/8 STEEL	12
7	84332	BOLT - HEX 3/8" - 16 X 1"	8
8	83056	WASHER - LOCK 3/8 SPRING STEEL	8
9	222949-01	WELDMENT - C2 CLEAN OUT DOOR	1
10	222950-02	WELDMENT - C2 CLEAN OUT DOOR LINER	1
11	223468-03	WELDMENT - C2 CLEAN OUT DOOR PIN	2
12	223234-02	WELDMENT - C2 CHAIN ACCESS DOOR	1
13	223252-03	DETAIL - C2 WASH DOWN PANEL	1
14	209884-02	WELDMENT - C2 DOOR LINER WELDMENT EXTENDED	2
15	129384-03	DETAIL - C2 INSPECTION PLATE	1
16	84717	WASHER - LOCK 5/8" SPRING STEEL	18
17	84778	HEX BOLT - 5/8 - 11 X 1 1/2 LG	18
18	85147	WASHER - FLAT 5/8" (USS 1 3/4 OD)	18
19	29C18	BOLT, CSK 1/2" - 13 X 1 3/4"	6
20	83317	WASHER - LOCK 1/2" SPRING STEEL GR8	8
21	83781-04	WASHER - FLAT 1/2" STEEL	8
22	83288	NUT - 1/2" - 13 HEX GR8	6
23	89987-04	BOLT - WING 3/8" - 16 X 1" GR8	2
24	129097	NUT - WING 3/8 - 16	2
25	86164	BOLT - HEX 1/2" - 13 X 1 1/4"	2
26	223294-01-1	FLEX HOSE - 2 PLY FIBERGLASS - SILICONE COATED 4" ID X 120"	1
27	223294-01-2	FLEX HOSE - 2 PLY FIBERGLASS - SILICONE COATED 4" ID X 168"	1
28	129000	CLAMPS - HOSE 4 1/2" IDEAL #6464	4
29	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M.	6
30	84560-04	FIT - ELBOW 4 JIC - 1/8 NPT 90 MALE	2

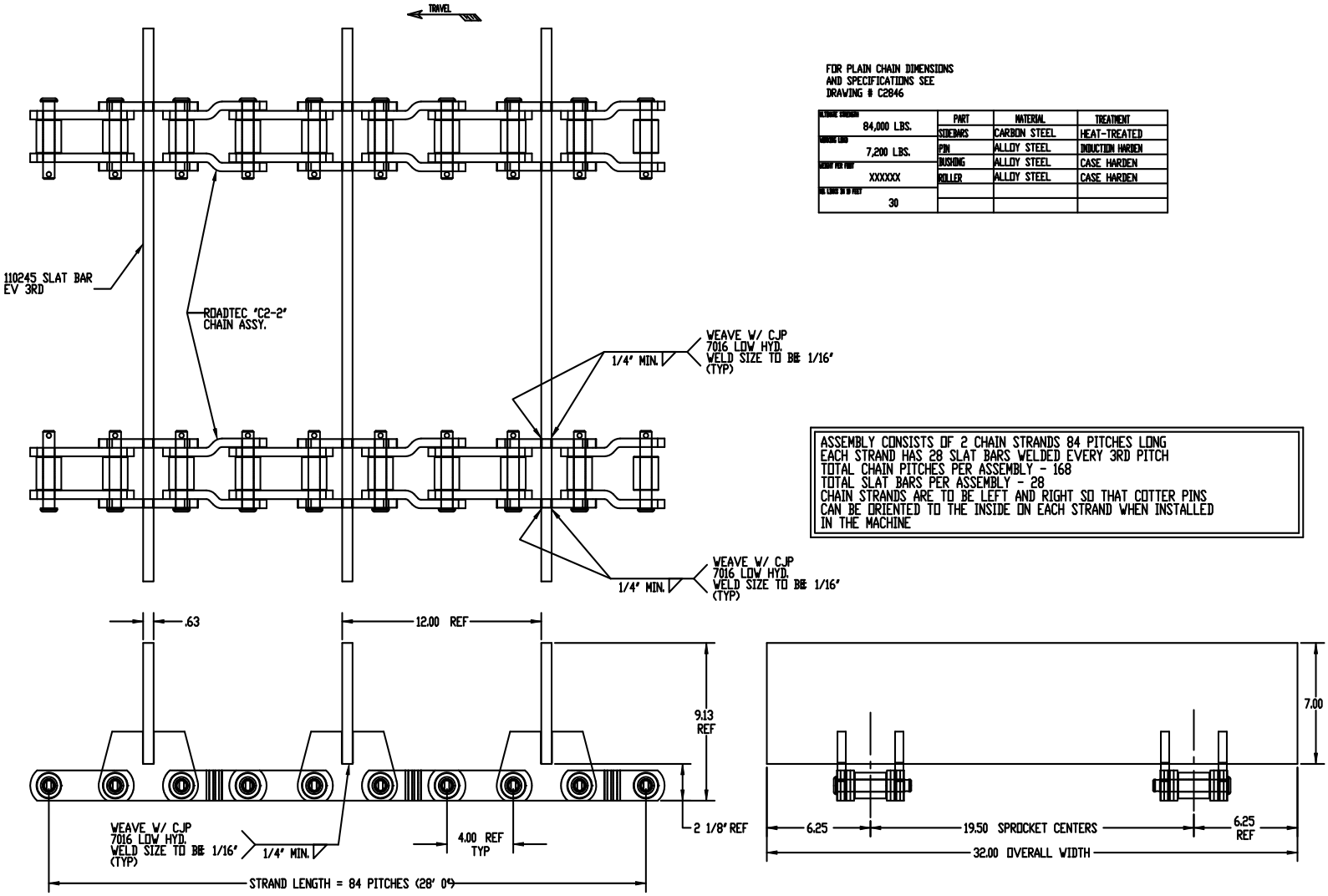
ASSEMBLY-C2 CHAIN & IDLER
(223297-01)



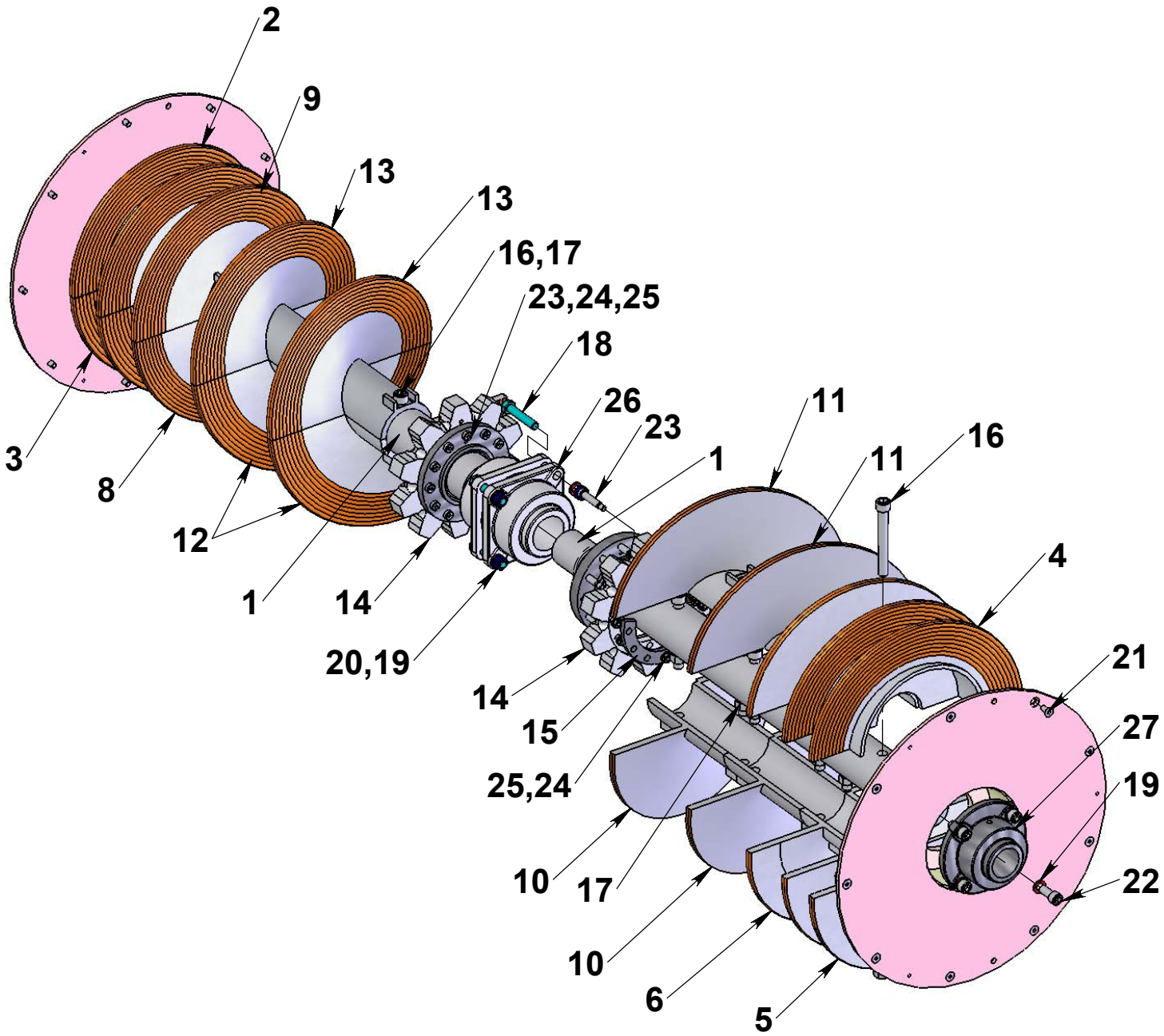
ITEM #	PART #	DESCRIPTION	QTY
1	223338-02	ASSEMBLY-C2 CONVEYOR CHAIN - 2500D	1
2	223418-01	WELDMENT-C2 IDLER SHAFT	2
3	99364-03	BEARING PLATE	2
4	88993-04	BEARING * 4 BOLT FLANGE	4
5	89143	BOLT * HEX 5/8-11 UNC X 1 3/4" LG.	16
6	84717	WASHER ~ LOCK 5/8" SPRING STEEL	16
7	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	8
8	83317	WASHER * LOCK 1/2" SPRING STEELGR.8	8

ASSEMBLY - C2 CHAIN
(223338-02)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	223338-02-C1	CONNECTING PIN	REF
2	223338-02-C2	3-PITCH SECTIONS	REF
3	223338-02-C3	KEEPER PIN	REF
4	223338-02-1	DRAG SLATS	REF
5			



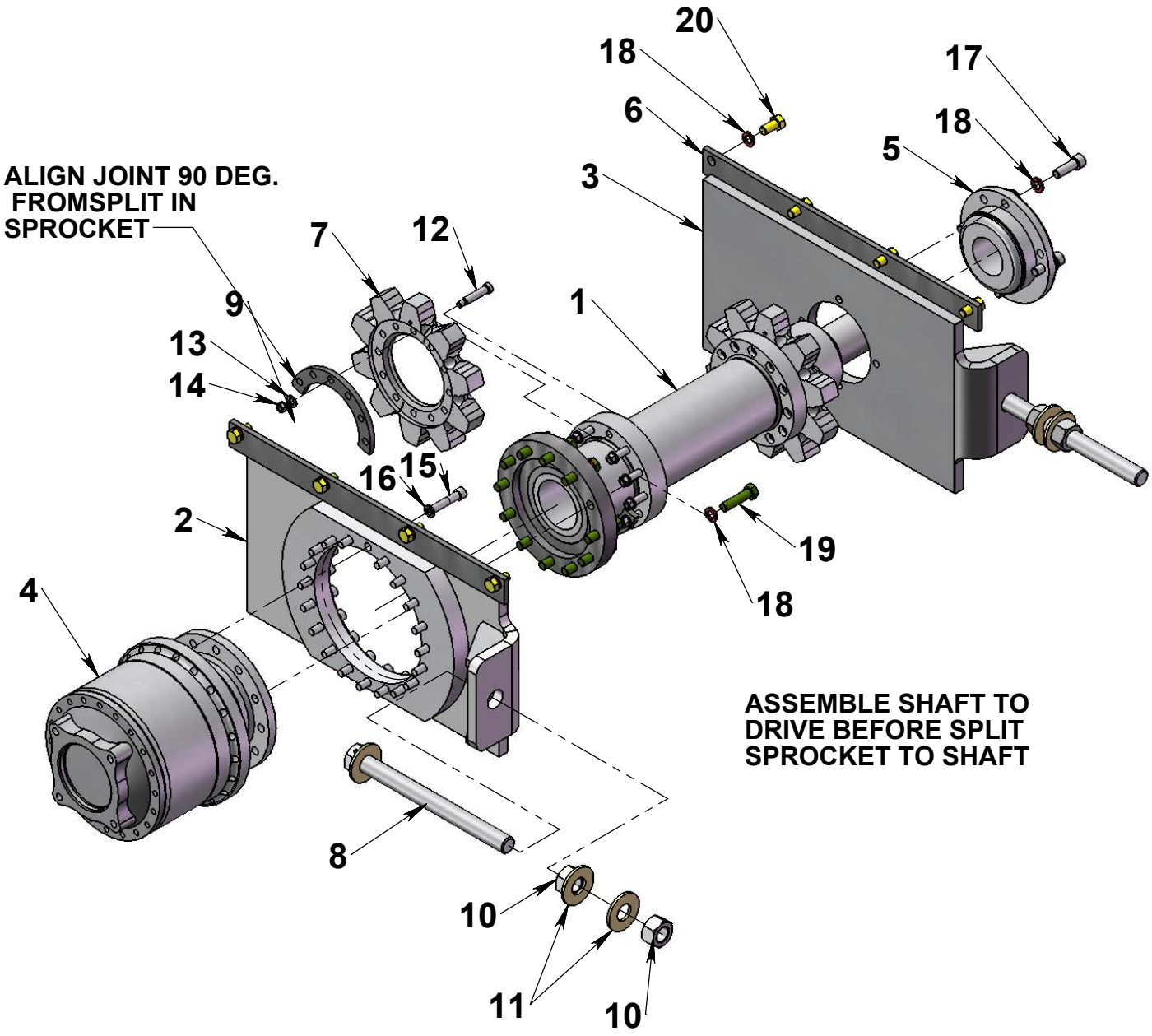
ASSEMBLY - C2 CONVEYOR FOOTSHAFT & AUGER (223296-01)



ASSEMBLY - C2 CONVEYOR FOOTSHAFT & AUGER (223296-01)

ITEM #	PART #	DESCRIPTION	QTY
1	223417-01	WELDMENT-C2 FOOTSHAFT	2
2	218681-01	FLIGHT * 4 3/16" RIGHT PITCH, LEFT SIDE, DUAL HARD	1
3	200320-01	FLIGHT * 4 3/16" RIGHT PITCH, LEFT SIDE	1
4	218680-01	FLIGHT * 4 3/16" LEFT PITCH, RIGHT SIDE, DUAL HARD	1
5	200322-01	FLIGHT * 4 3/16"LEFT PITCH, RIGHT SIDE	1
6	200315-01	FLIGHT * 6 7/8" LEFT PITCH, RIGHT SIDE	1
7	200314-01	FLIGHT * 6 7/8" LEFT PITCH, RIGHT SIDE	1
8	200313-01	FLIGHT * 6 7/8" RIGHT PITCH, LEFT SIDE	1
9	200312-01	FLIGHT * 6 7/8" RIGHT PITCH, LEFT SIDE	1
10	200311-01	FLIGHT * 12"LEFT PITCH, RIGHT SIDE	2
11	200310-01	FLIGHT * 12"LEFT PITCH, RIGHT SIDE	2
12	200309-01	FLIGHT * 12"RIGHT PITCH, LEFT SIDE	2
13	200308-01	FLIGHT * 12" RIGHT PITCH, LEFT SIDE	2
14	223577-02	SPROCKET*C1&C2 FOR LRG ROLLER CHAIN	2
15	223784-04	DETAIL-SPROCKET COVER PLATE	4
16	200318	SCREW * 7/8"-9 X 7" LG. SOC.HD.	12
17	132058-04	NUT * 7/8-9 TOP LOCK GRADE 8	12
18	12K35	BOLT * HEX 3/4"-10 x 4"	4
19	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	12
20	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	4
21	128462	CSK. BOLT * 1/2"-13 X 1 1/4"	18
22	146963	SCREW*HEX 3/4"-10 X 1 3/4" SOC.HD.	8
23	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
24	10D63	WASHER ~ 1/2" HARD A325	24
25	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
26	29M97	BEARING * 3 1/2" PILOTED	2
27	29M98	BEARING, FLANGED 3" 4-BOLT	2
28	220711-01	WLDT-BEARING PLATE	2

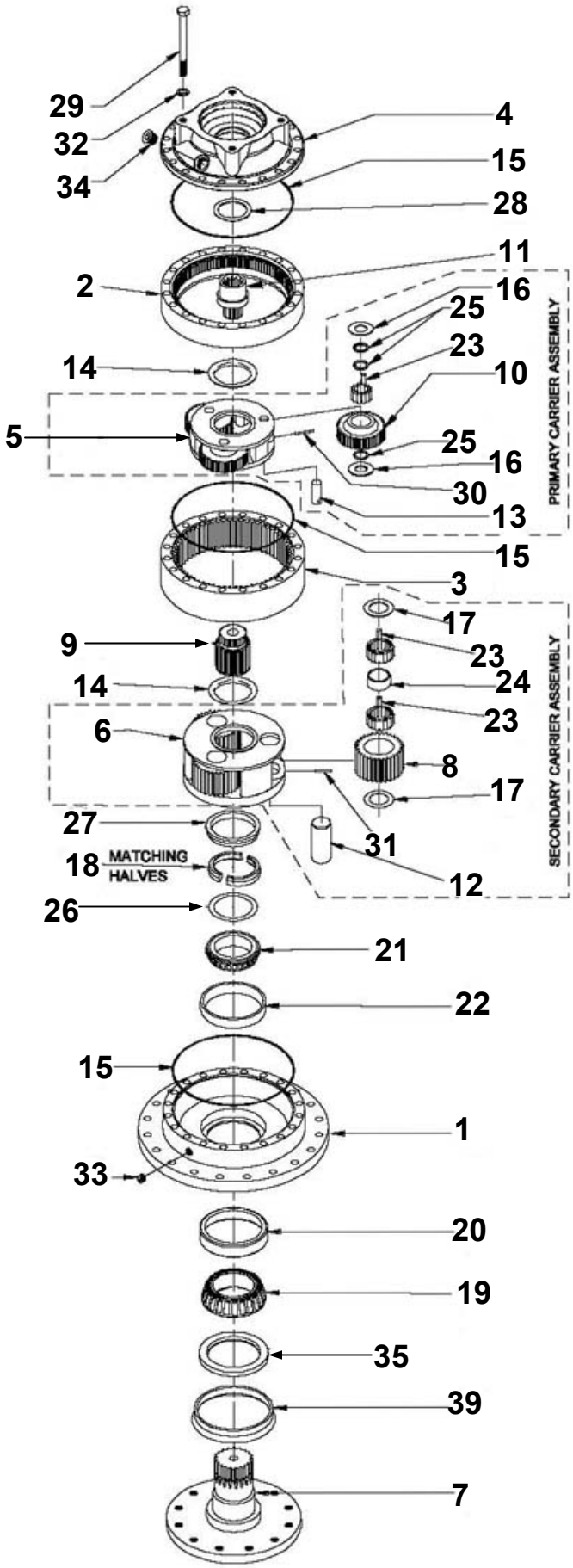
ASSEMBLY-C2 HEADSHAFT & TAKE-UP (229858-01)



ASSEMBLY-C2 HEADSHAFT & TAKE-UP (229858-01)

ITEM #	PART #	DESCRIPTION	QTY
1	229859-01	WELDMENT - C2 HEADSHAFT	1
2	229860-01	WELDMENT-C2 TAKEUP PLT. EXTENDED	1
3	222777-01	WELDMENT-RH C2 TAKE-UP	1
4	203739-01	TRANS * GEARBOX C2 DRIVE	1
5	97350-04	BEARING * FLANGE	1
6	215750-03	DETAIL-UPPER KEEPER BAR	2
7	223577-02	SPROCKET*C1&C2 FOR LRG ROLLER CHAIN	2
8	99060-04	ASSEMBLY - TAKE-UP SCREW	2
9	223784-04	DETAIL-SPROCKET COVER PLATE	4
10	83031	NUT * 1 1/2"-6 HEX GRADE 8	4
11	83032	WASHER * FLAT 1 1/2" N SERIES	6
12	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
13	10D63	WASHER ~ 1/2" HARD A325	24
14	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
15	208398-04	SCREW * SHCS 5/8-11 X 3"	20
16	84717	WASHER ~ LOCK 5/8" SPRING STEEL	20
17	204727-04	CAPSCREW * 3/4"-10 X 2 1/4 S.H.C.S.	4
18	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	24
19	122336	BOLT * HEX 3/4"-16 X 3" GD.8	12
20	95932	BOLT * HEX 3/4"-10 X 1 1/2"	8

C-2 DRIVE GEARBOX
(203739-01)



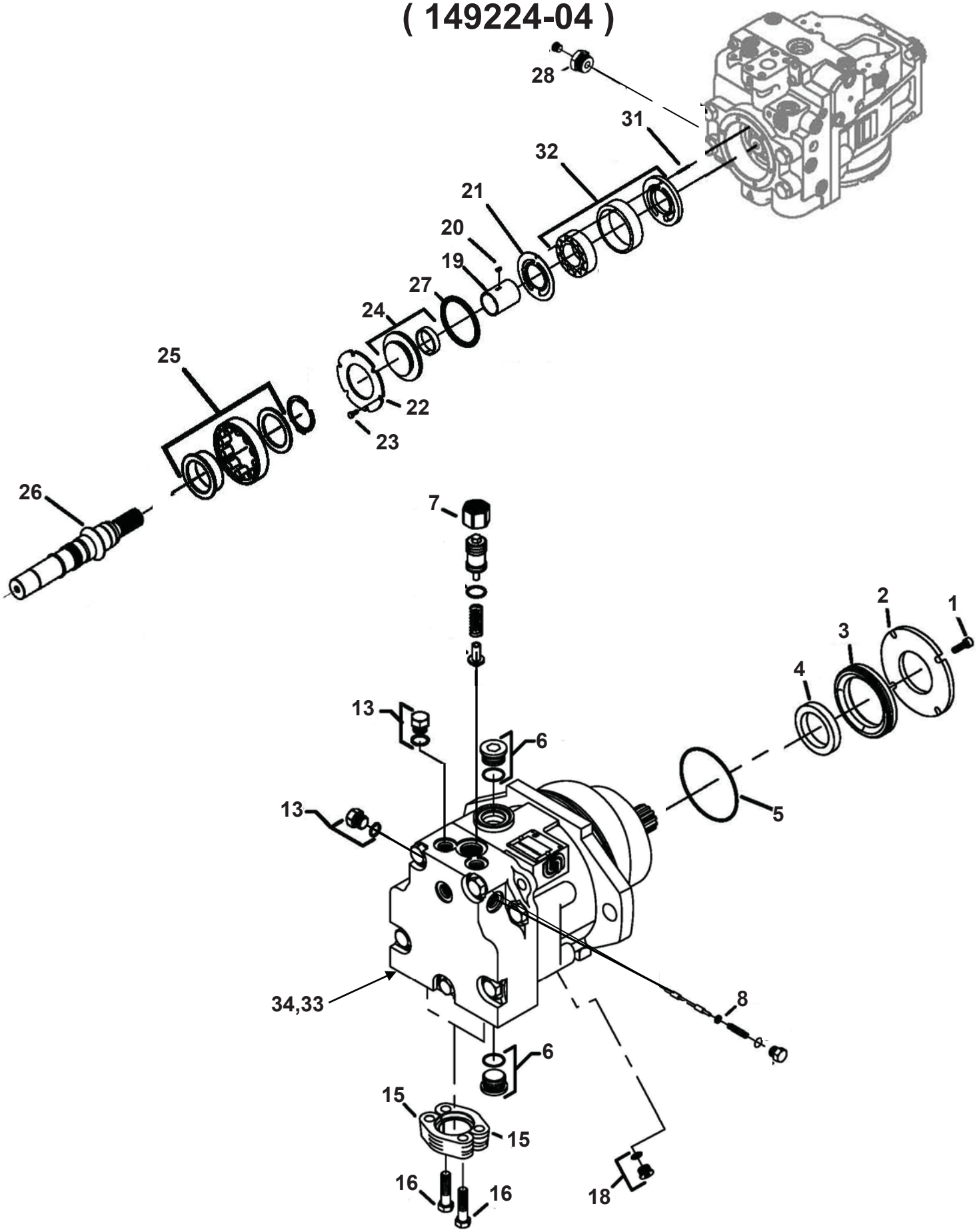
ROADTEC
an Astec Industries Company

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)



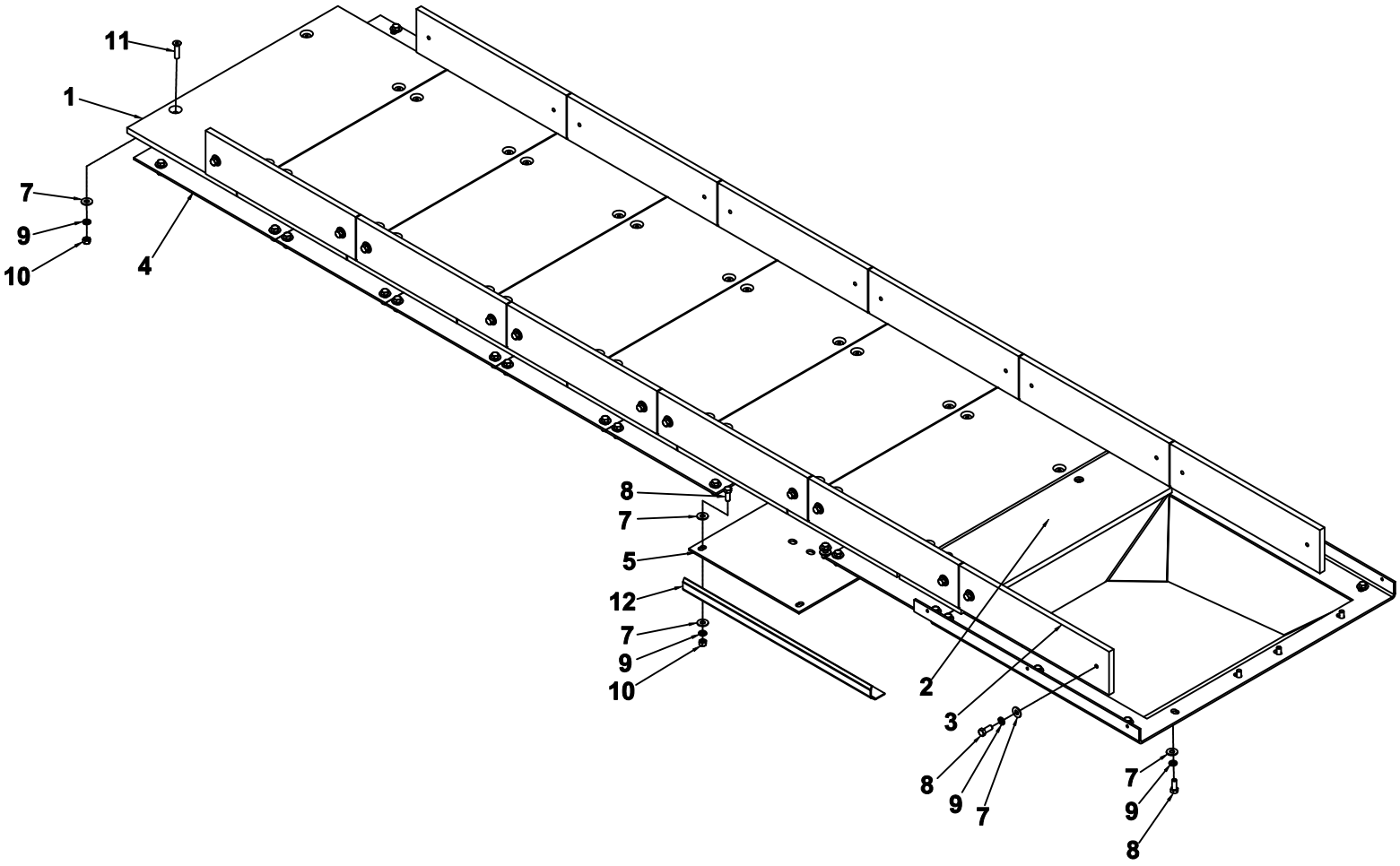
ROADTEC
an Astec Industries Company

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			

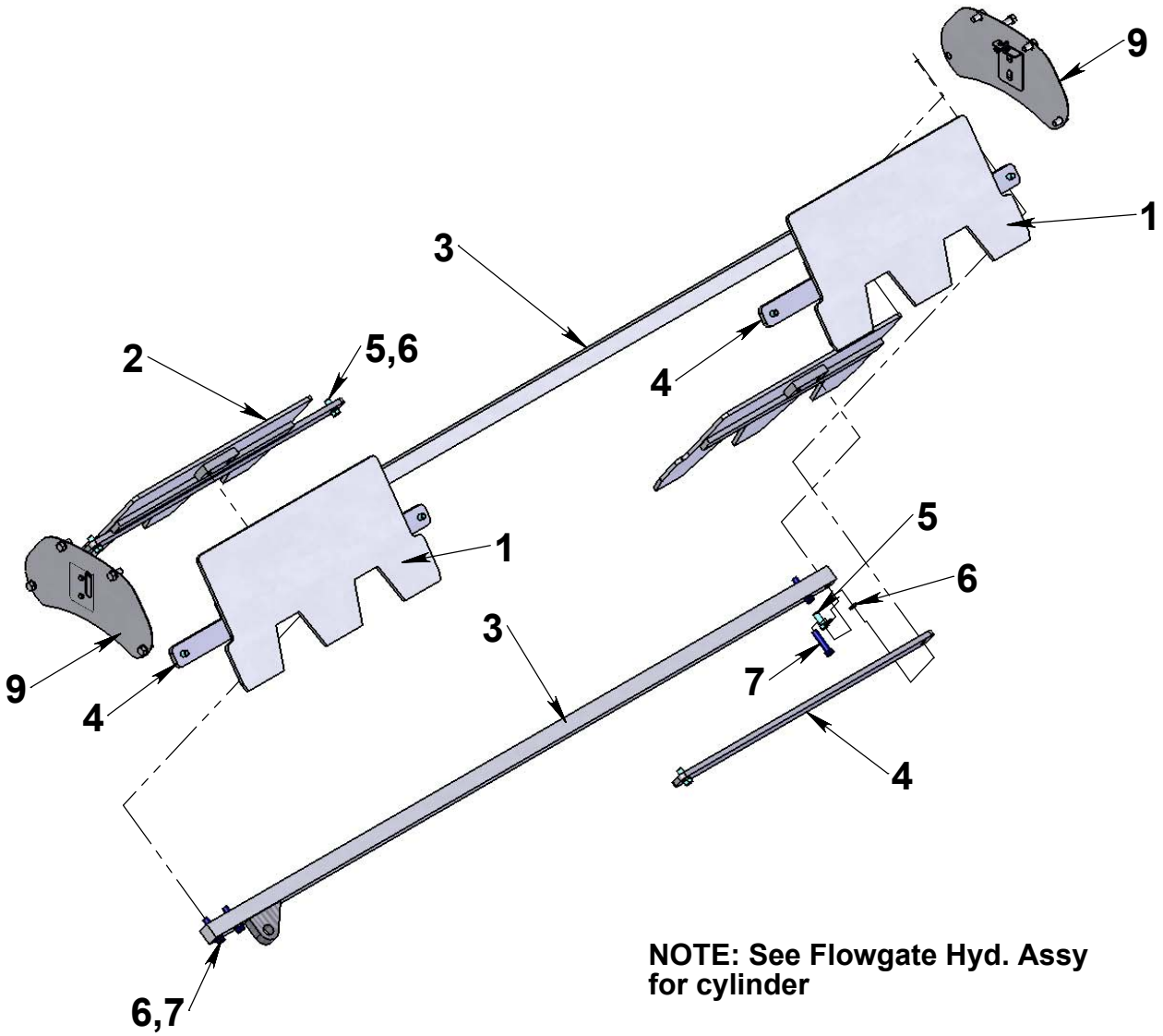
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C2 LINER & BOTTOM PLATE
(229755-01)



ITEM #	PART NO.	DESCRIPTION	QTY.
1	223339-03	DETAIL - C2 LINER NI-HARD	7
2	223341-03	DETAIL - C2 BOTTOM LINER (AR500)	1
3	149877-03	SIDE LINER FOR C1/C2	12
4	223342-03	DETAIL - C2 BOTTOM PLATE, AUGER END	1
5	223343-03	DETAIL - C2 BOTTOM PLATE	6
6	229728-01	WLDMT - C2 DISCHARGE CHUTE	1
7	83781-04	FLAT WASHER - 1/2" STEEL	126
8	86164	HEX BOLT - 1/2-13 X 1 1/4"	62
9	83317	LOCK WASHER - 1/2" SPRING STEEL	92
10	83288	HEX NUT - 1/2-13 GR8	64
11	95847	CSK BOLT - 1/2-13 X 2"	30
12	120872-03	DETAIL - HOSE PROTECTOR PLATE	1
13			
14			
15			

ASSEMBLY - FLOWGATE
(231060-01)

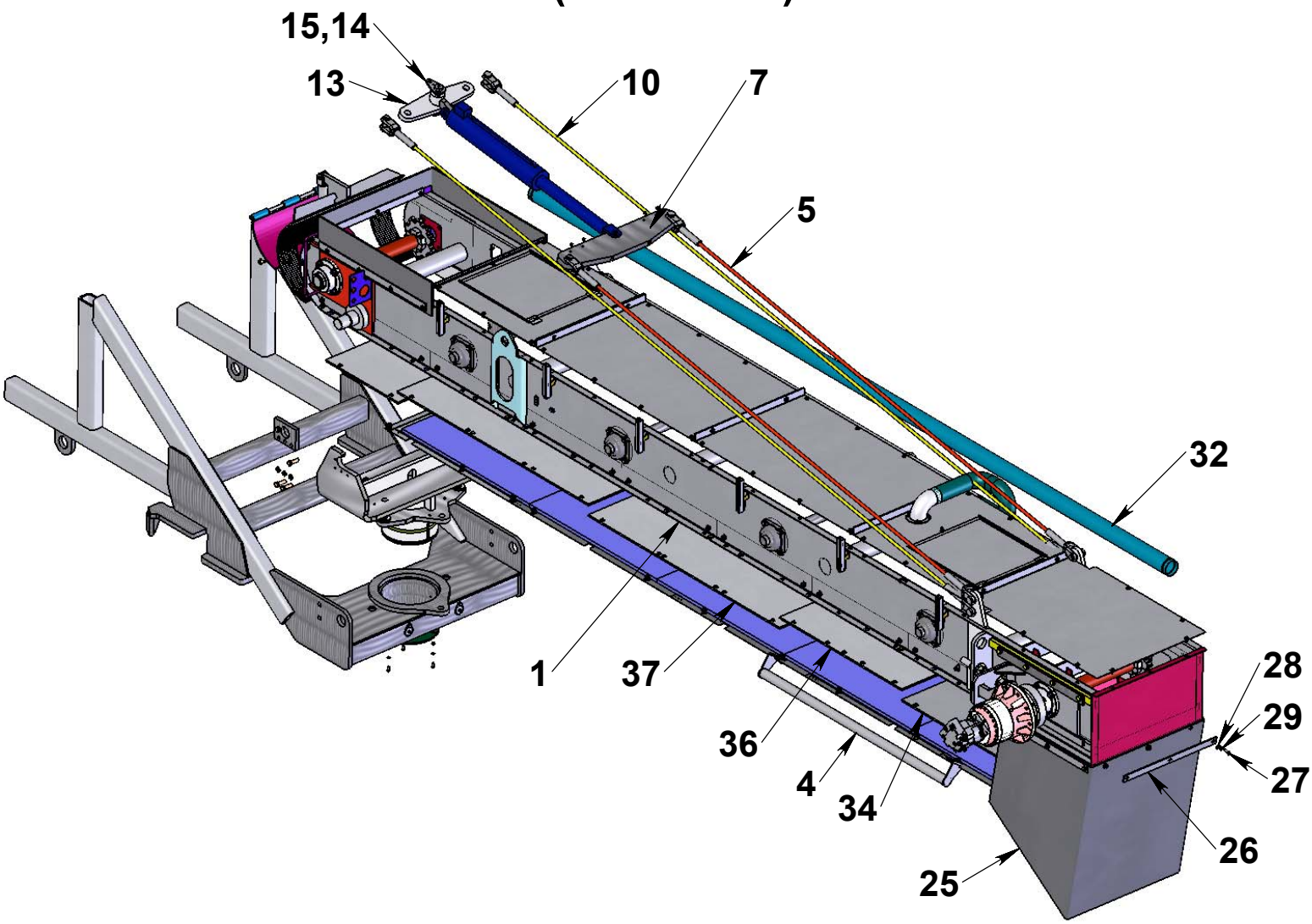


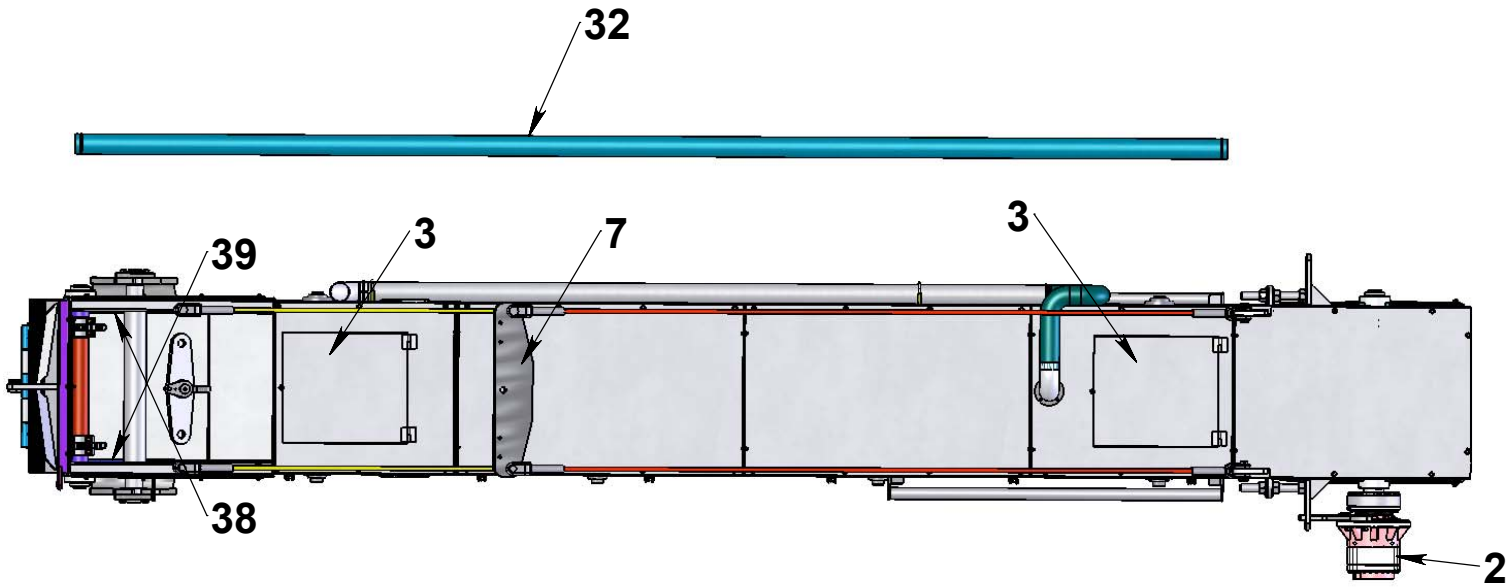
NOTE: See Flowgate Hyd. Assy for cylinder

ITEM #	PART #	DESCRIPTION	QTY
1	231062-03	WELDMENT-INNER FLOWGATE, REAR	2
2	202751-03	WELDMENT-INNER FLOWGATE, FRONT	2
3	223282-03	WELDMENT-FLOWGATE TIE ROD-2500D	2
4	200145-03	DETAIL-FLOWGATE RETAINER-2500C	4
5	86164	BOLT * HEX 1/2"-13 X 1 1/4"	8
6	83317	WASHER * LOCK 1/2" SPRING STEEL	24
7	26C56	BOLT * HEX 1/2"-13 X 2 1/4"	8
8	83754	BOLT * HEX 1/2"-13 X 1"	8
9	224996-03	ASSY-FLOWGATE ACCESS COVER	2

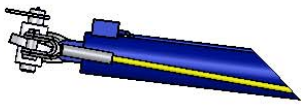
ASSY-C3 CONVEYOR SB-2500
(223787-01)

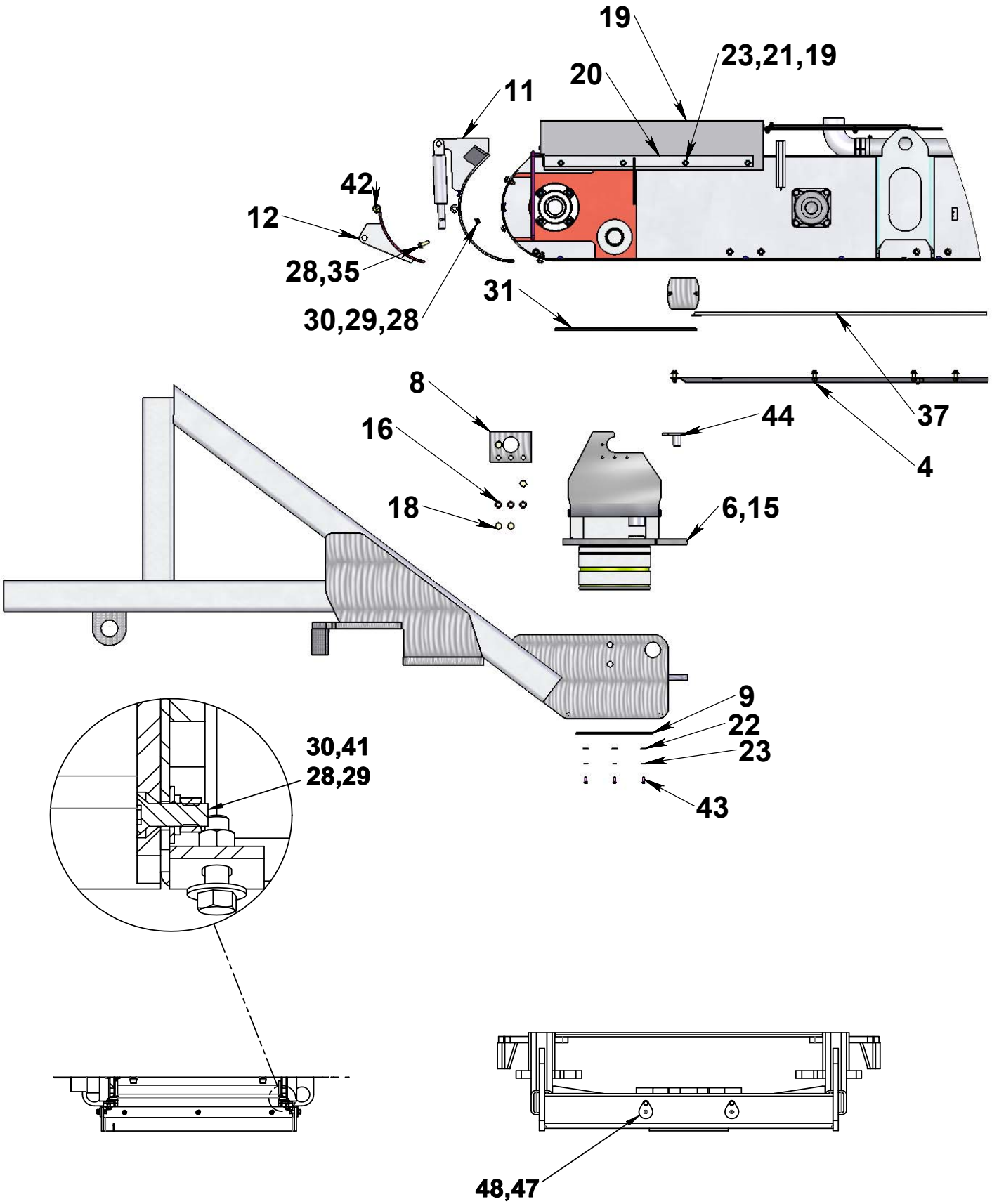
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C-3 CONVEYOR ASSEMBLY
(223787-01)





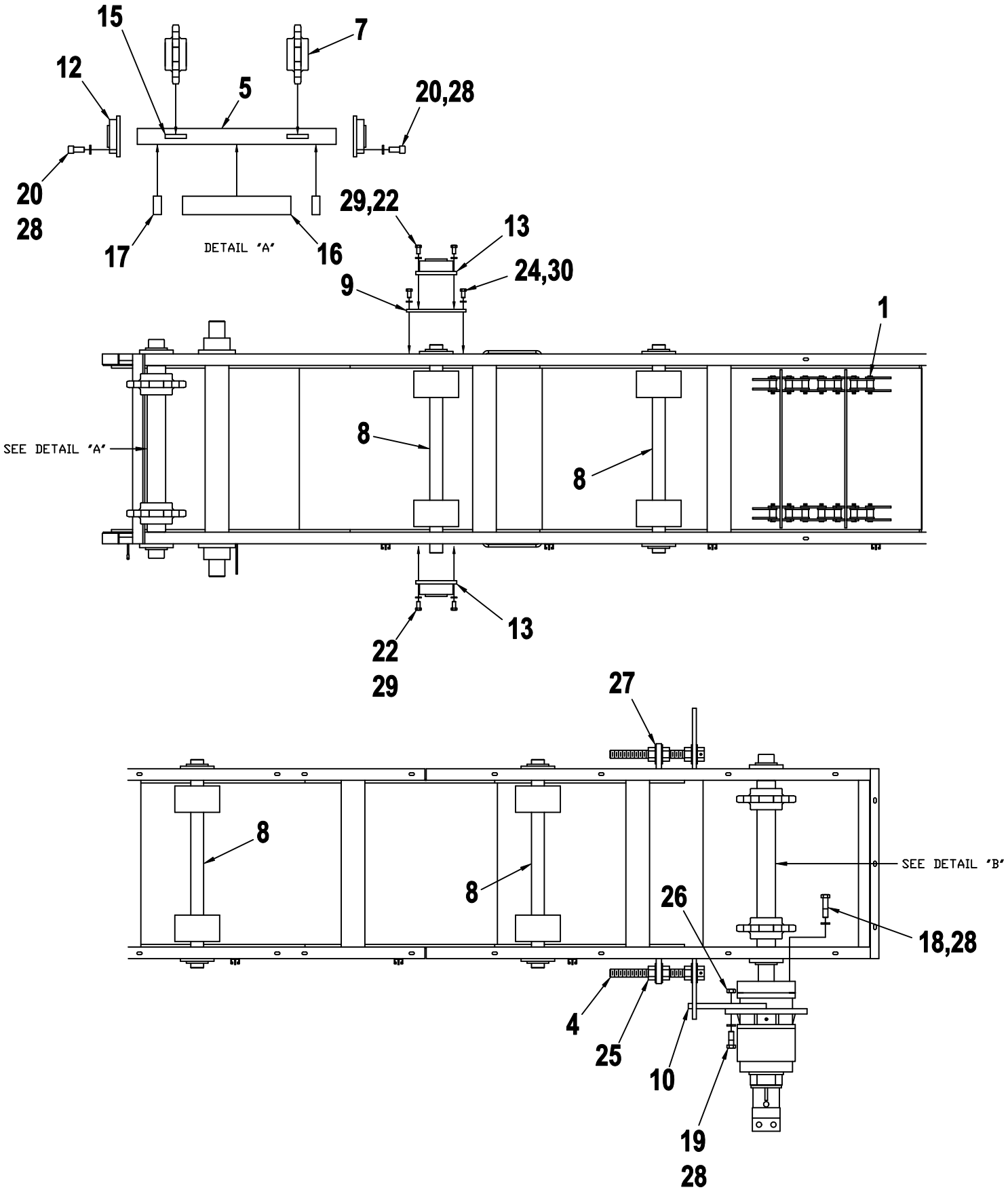
ASSY-C3 CONVEYOR SB-2500
(223787-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	222694-01	WLDT-C3 CONVEYOR	1
2	223788-01	C-3 CHAIN & IDLER SUB ASSEMBLY	1
3	214493-01	ASSY-C3 TOP COVER	1
4	214690-01	ASSY-INSULATION PANEL & TRUCK RAIL	1
5	213523-04	CABLE - C3 LIFT 155-3/4" LONG	2
6	222745-01	WELDMENT-C3 PIVOT YOKE-SB-2500C	1
7	204755-03	SPREADER BAR BLANK	1
8	121890-02	C3 LOCK-IN PLATE	2
9	201178-03	DETAIL-COVER PLATE	1
10	204779-04	CABLE - C3 SAFETY CABLE x 226"	2
11	222708-03	WELDMENT-END COVER PLATE-2500B	1
12	128833-01	WELDMENT - C3 TRAP DOOR 2500B	1
13	200188-03	WELDMENT-C3 LIFT CYLINDER LINK	1
14	200527-03	WLDT-C3 CONVEYOR LINK PIN	1
15	90565	GREASE FITTINGS - 1/4 NPT. ST	3
16	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	8
17	90087-04	CHAIN * LOOP/1.75" OPENING DEPTH	2
18	93723	BOLT ~ HEX 3/4"-10 x 2 1/2"	8
19	125193-01	C3 CONVEYOR FLASHING RUBBER	1
20	122124-04	SIDE CLAMP	2
21	83924	BOLT * HEX 3/8"-16 X 1 1/2"	11
22	83757	WASHER ~ FLAT 3/8 STEEL	11
23	83056	WASHER ~ LOCK 3/8 SPRING STEEL	18
24	83055	NUT * 3/8-16 HEX GRADE 8	7
25	218472-01	RUBBER FLASHING FOR C3 DISCHARGE	1
26	218473-04	CLAMP BAR	4
27	93144	BOLT * HEX 1/2"-13 X 1 1/2"	11
28	83781-04	WASHER * FLAT 1/2" STEEL	49
29	83317	WASHER * LOCK 1/2" SPRING STEEL	45
30	83288	NUT * 1/2"-13 HEX GRADE 8	34
31	148641-03	FORMED BOTTOM LINER (27")	1
32	223787-01-32	HOSE * 4" FLEX x 240" LG.	1
33	129000	CLAMPS * HOSE 4 1/2" IDEAL # 6464	2
34	148640-03	WELDMENT-BOTTOM LINER (39")	1
35	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	6
36	148639-03	WELDMENT-BOTTOM LINER (46")	1
37	148638-03	WELDMENT-BOTTOM LINER (72")	2
38	148642-03R	FORMED RIGHT C3 FRONT SIDE LINER	1
39	148642-03L	FORMED LH C3 FRONT SIDE LINER	1
40	148644-03	C-3 SIDE LINER	12
41	26C72	BOLT ~ CSK 1/2-13 x 1 1/2	28
42	146845-03	WELDMENT-C3 CLEAN-OUT DOOR PIN	1
43	84332	BOLT * HEX 3/8"-16 X 1"	3
44	122102-03	WLDT-CONVEYOR SHIPPING PIN	1
45	00883	CAPSCREW - 3/8-16UNC X 2-3/4"	4
46	83742-04	FIT ~ CONNECTOR 4 JIC - 1/8" NPT M.	4
47	205439-03	WLDT-GREASE LINE BRACKET-2500C	2
48	83416	GREASE * NIPPLE 1/8" NPT	2

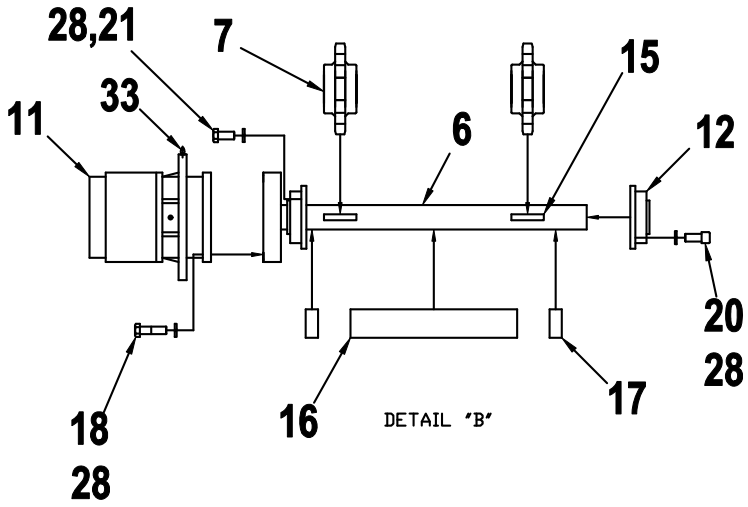
ROADTEC an Astec Industries Company

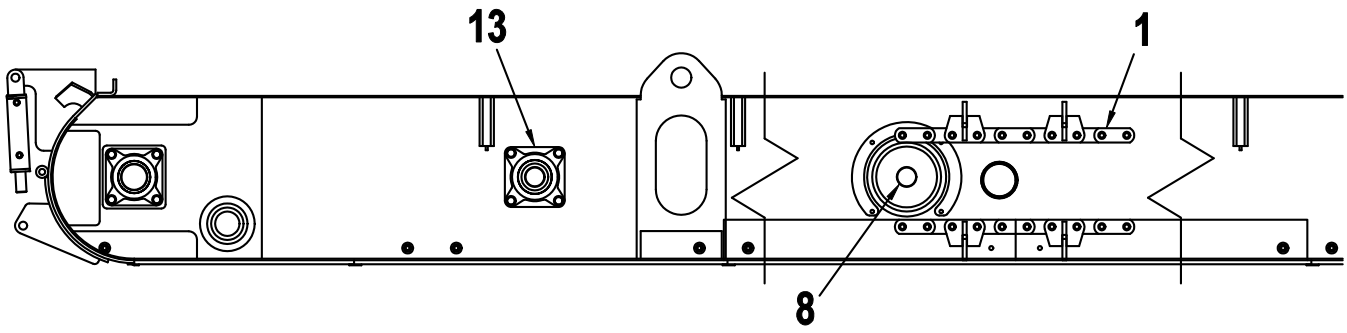
C-3 CHAIN & IDLER ASSEMBLY
(223788-01)

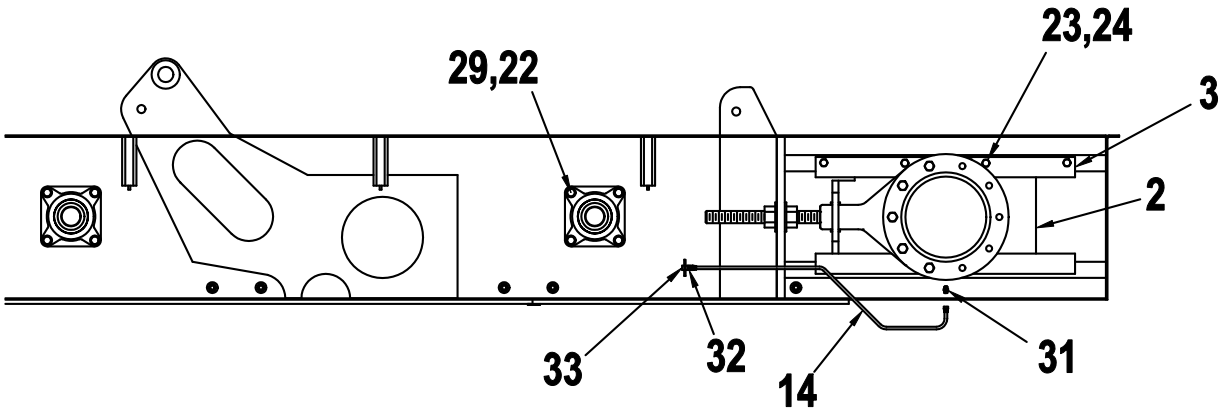
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C-3 CHAIN & IDLER ASSEMBLY
(223788-01)





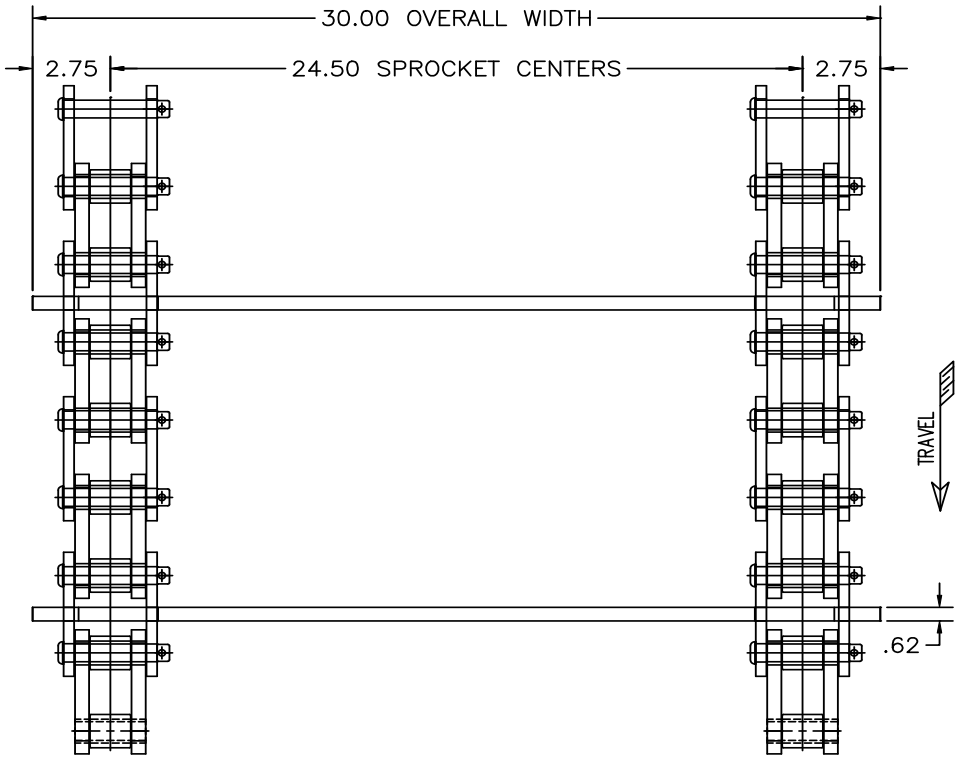


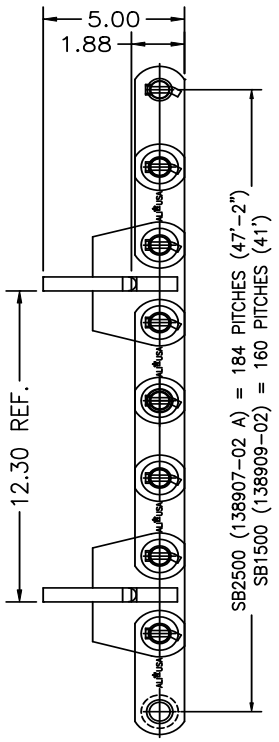
C-3 CHAIN & IDLER SUB-ASSEMBLY
(223788-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	223582-01	ASSEMBLY - C-3 CHAIN SB-2500D	1
2	122406-01	WELDMENT - C-3 TAKE-UP PLATE - 1500/2500	2
3	215750-03	DETAIL - UPPER KEEPER BAR	2
4	99060-04	ASSEMBLY - TAKE-UP SCREW	2
5	99784-03	TAIL SHAFT	1
6	99779-01	C-3 HEAD SHAFT WELDMENT & MACHINING	1
7	223578-03	SPROCKET - C-3 FOR LARGE ROLLER CHAIN	4
8	146687-01	WELDMENT - C-3 IDLER - SB-1500B	4
9	99364-03	BEARING PLATE	4
10	99778-03	ADJUSTMENT ARM	1
11	29E38	PLANETARY SPEED REDUCER	1
12	29G14	BEARING - FLANGED BLOCK 2000 SERIES	4
13	88993-04	BEARING - 4 BOLT FLANGE	8
14	123168-01-48	KEYSTOCK, 3/4" 4" LG, CD-1018	4
15	223788-01-16	PIPE - 3" SCH. 40, 20 7/16" LG, A53	2
16	223788-01-17	PIPE - 3" SCH. 40, 1 1/2" LG, A53	4
17	133348	BOLT - HEX 3/4 - 16 X 3 1/2 GR8	8
18	89151	BOLT - HEX 3/4" - 10 X 3"	5
19	93212	SCREW - 3/4" - 10 X 2" SOC. HD.	12
20	93071	BOLT - HEX 3/4" - 10 X 2" LG.	4
21	89143	BOLT - HEX 5/8" - 11 UNC X 1 3/4"	32
22	95932	BOLT - HEX 3/4" - 10 X 1 1/2"	8
23	89142	BOLT - HEX 1/2" - 13 UNC X 1 3/4"	16
24	83031	NUT - 1 1/2" - 6 HEX GR8	6
25	95938	NUT - JAM 3/4" - 10 UNC GR8	5
26	83032	WASHER - FLAT 1 1/2" N SERIES	8
27	83752-04	WASHER - LOCK 3/4" SPRING STEEL	37
28	84717	WASHER - LOCK 5/8" SPRING STEEL	32
29	83317	WASHER - LOCK 1/2" SPRING STEEL GR8	16
30	99509	FIT - 4 JIC M X 1/8" NPT M 45 DEG	2
31	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M.	2
32	83416	GREASE - NIPPLE 1/8" NPT	1

ASSEMBLY - C3 CHAIN
(223582-02)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	223582-02-C1	CONNECTING PIN	REF
2	223582-02-C2	4-PITCH SECTIONS	REF
3			



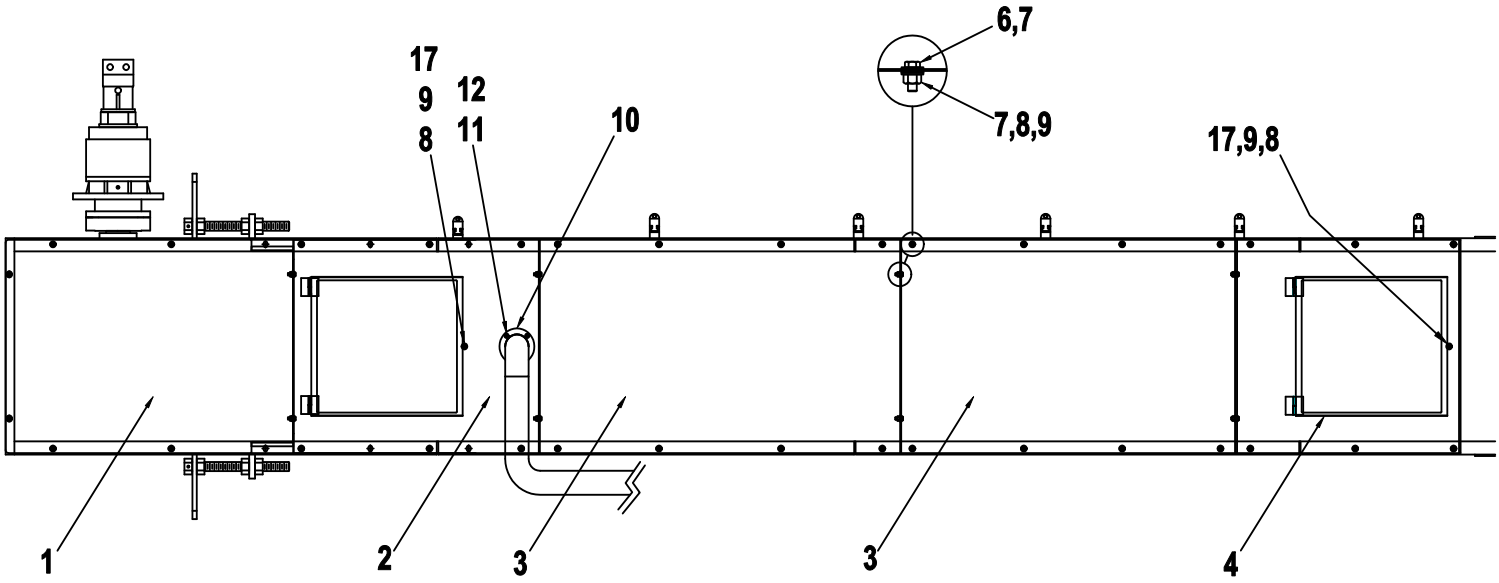


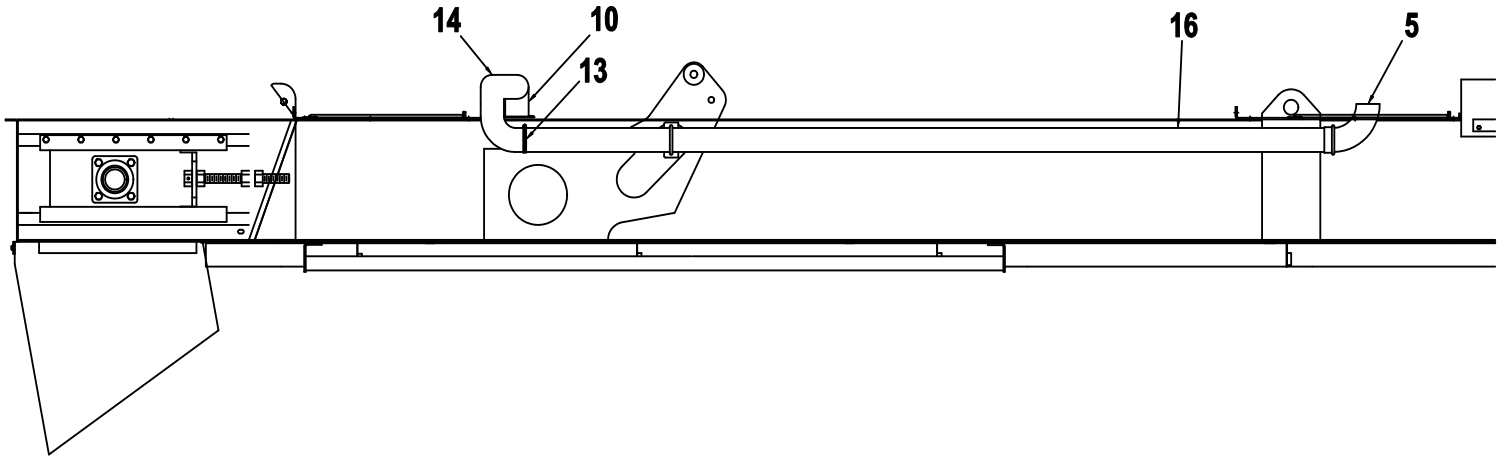
WELD SIZE +0/−1/16"

	PART	MATERIAL	TREATMENT
ULTIMATE STRENGTH 75,000 LBS.	SIDEBARS	ALLOY STEEL	HEAT−TREATED
WORKING LOAD 5,700 LBS.	PIN	ALLOY STEEL	INDUCTION HARDEN
WEIGHT PER FOOT 10.6 LBS.	BUSHING	ALLOY STEEL	CASE HARDEN
NO. LINKS IN 10 FEET 39	ROLLER	ALLOY STEEL	CASE HARDEN

ROADTEC an Astec Industries Company

C-3 TOP COVER W/ FUME-EX ASSEMBLY
(214493-01)

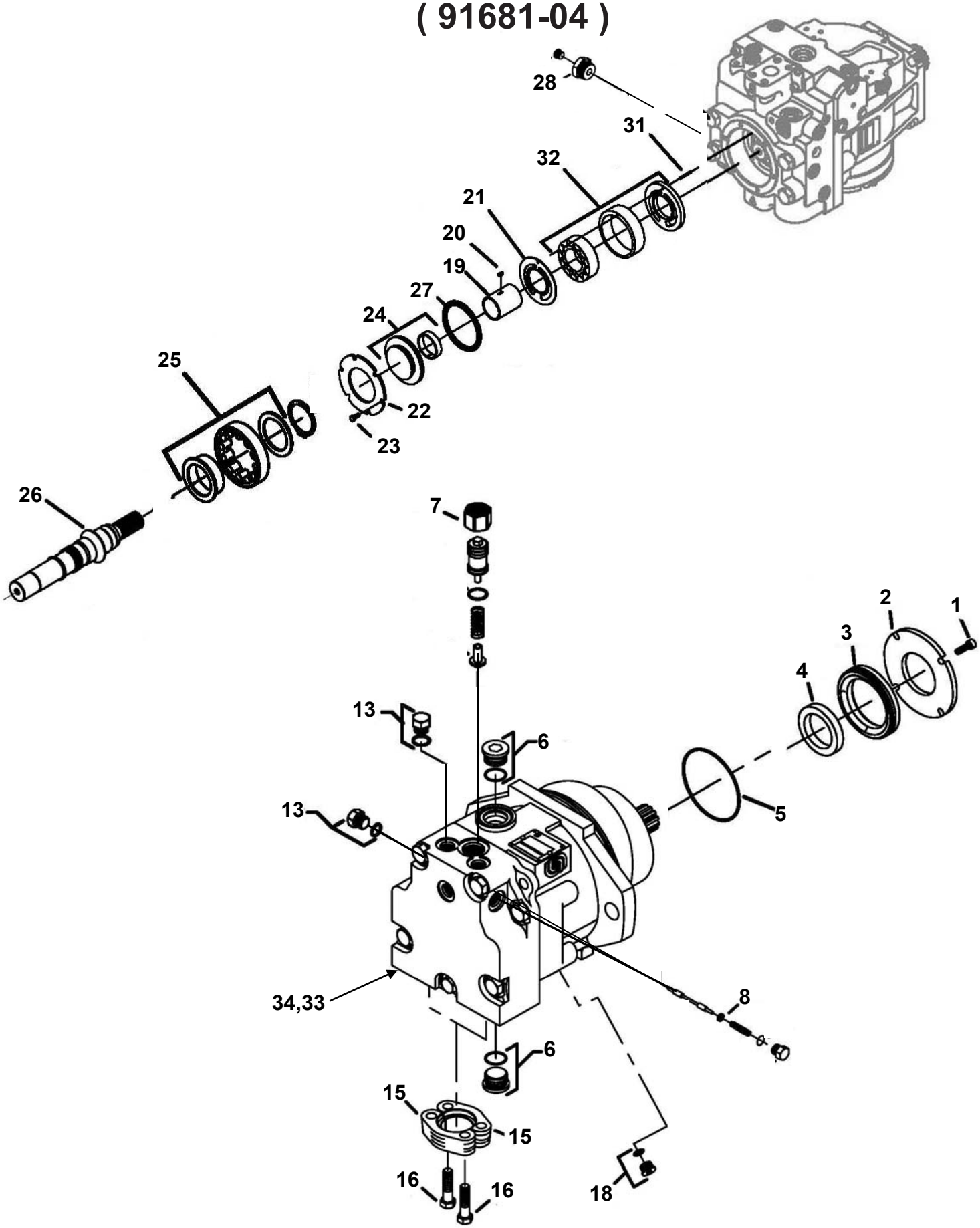




C-3 TOP COVER W/ FUME-EX ASSEMBLY
(214493-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214674-03	TOP COVER (DISCHARGE END)	1
2	214673-03	TOP COVER WLDMT.	1
3	214492-03	TOP COVER PANEL	2
4	214650-03	TOP COVER WLDMT. (RECEIVING END)	1
5	29H38	ELBOW - 4" ALUMINIZED 90 DEG.	1
6	84332	HEX BOLT - 3/8-16 X 1" GR8	30
7	83757	FLAT WASHER - 3/8" STEEL	86
8	83056	LOCK WASHER - 3/8" SPRING STEEL	28
9	83055	HEX NUT - 3/8-11 GR8	28
10	129111-02	FLANGED ELBOW FOR FUME-X	1
11	83065	LOCK WASHER - 1/4" SPRING STEEL	4
12	89772	HEX NUT - 1/4-20 GR8	4
13	129000	HOSE CLAMP - 4 1/2" (IDEAL #646)	2
14	125232-04	HOSE - 4" FLEX 2 PLY X 32" LG	1
15	93129	CLAMP - 4" MUFFLER	2
16	138462-04	FUME EXTRACTION TUBE (12 FT. LENGTH)	1
17	203227-03	HEAD & TAIL WASHER	1

C-3 DRIVE MOTOR
(91681-04)

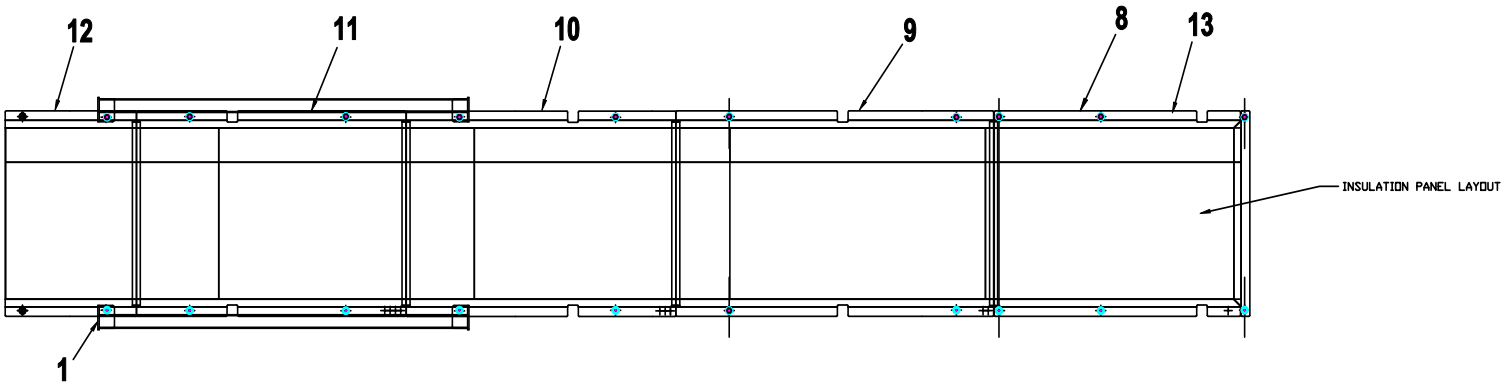


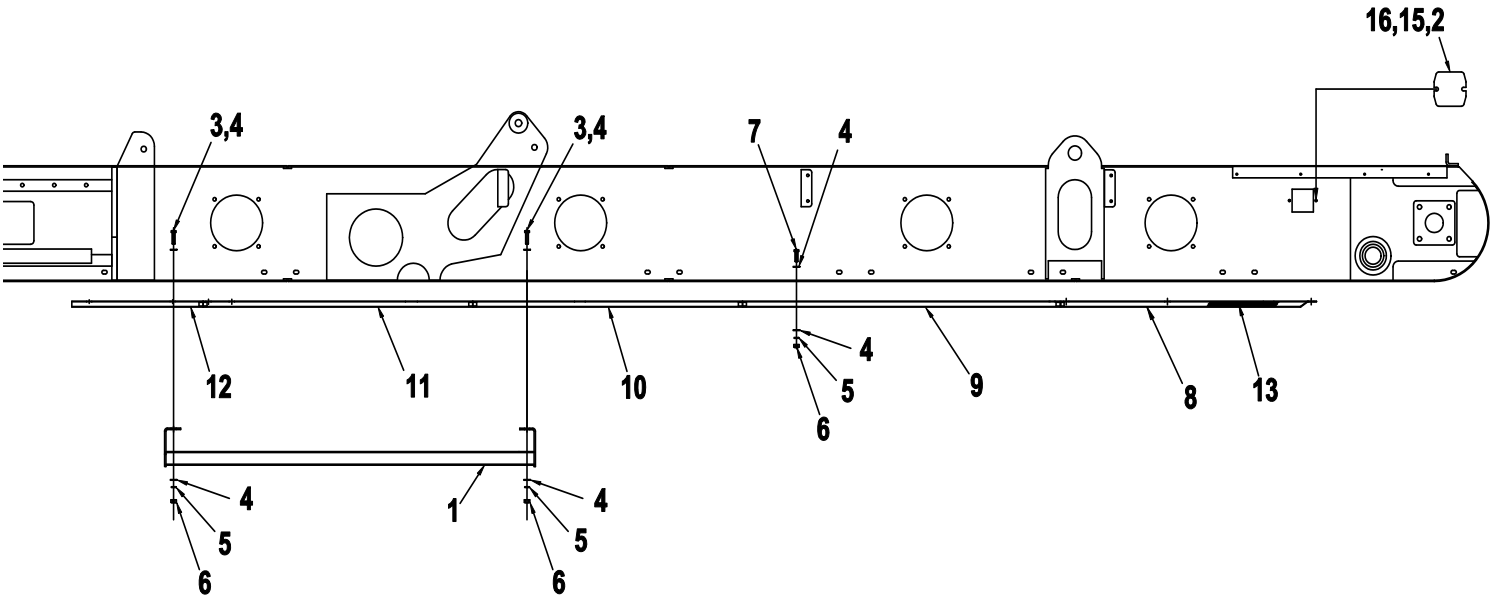
C-3 DRIVE MOTOR
(91681-04)

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			

CODE: 90M055-NC0O-N-8-N-O-S1-W-OO-HNN-OO-OO-24

C-3 INSULATION PANEL & TRUCK RAIL
(214690-01)



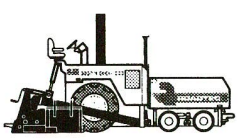


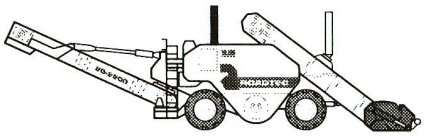
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	212605-01	C3 GUARD RAILS (SP-200)	2
2	129384-03	CHAIN INSPECTION PLATE	1
3	84674	HEX BOLT - 1/2-13 X 2" GR8	4
4	83781-04	FLAT WASHER - 1/2" STEEL	40
5	83317	LOCK WASHER - 1/2" SPRING STEEL	20
6	83288	HEX NUT - 1/2-13 GR8	20
7	89142	HEX BOLT - 1/2-13 X 1 3/4" GR8	16
8	212606-01	INSULATION COVER WLDMT.	1
9	212607-01	INSULATION COVER WLDMT.	1
10	212608-01	INSULATION COVER WLDMT.	1
11	212609-01	INSULATION COVER WLDMT.	1
12	212610-01	INSULATION COVER WLDMT.	1
13	212611-02	INSULATION KIT C3 CONVEYOR SB-2500C	3
14	133842	SELF-TAPPING SCREW - 1/4X 1/2" LG	8
15	83757	FLAT WASHER - 3/8" STEEL	2
16	129027	WING NUT - 3/8-16	2

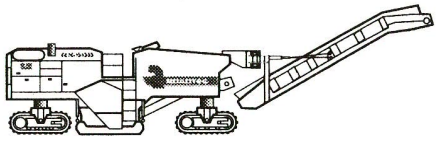
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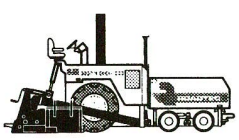
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

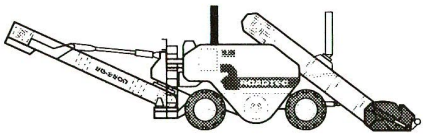
ROADTEC
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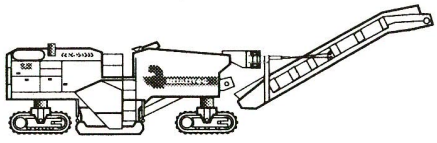
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SECTION 5 : HYDRAULICS

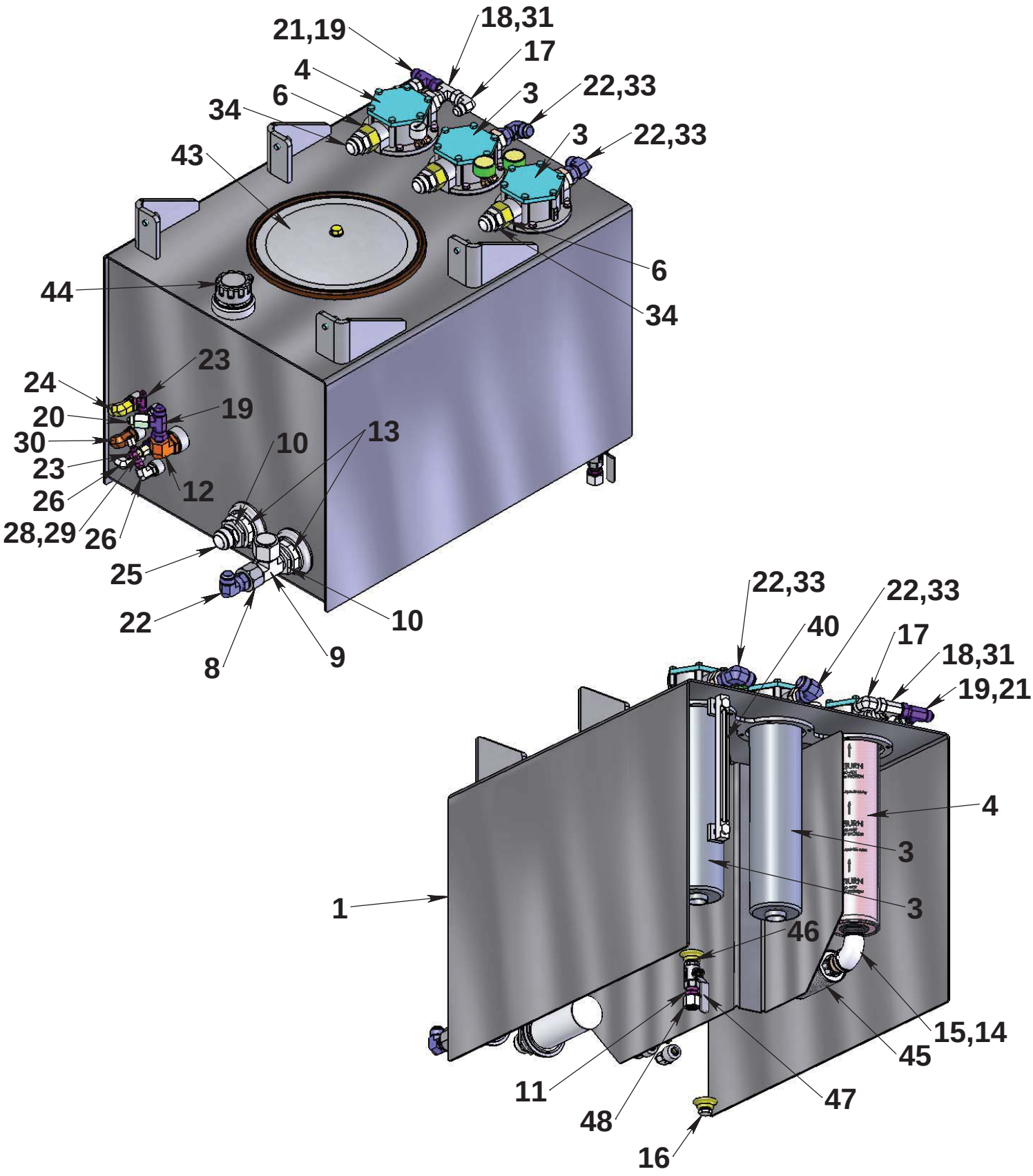
ASSEMBLY	PART NO.	S/N	PAGE NO.
HYDRAULIC TANK	228583-01	1063 & UP	5.1
HOUSING.- DOUBLE ELEMENT FILTER	29G38		5.4
18” ELEMENT	229517-03		5.5
HOUSING - 2 ELEMENT FILTER W/ BY-PASS	29G37		5.6
18” ELEMENT	229518-03		5.7
AUXILIARY PUMP	217839-01		5.9
BRAKE	230754-01		5.11
BRAKE ACCUMULATOR	202729-03		5.15
R.H. BRAKE ACTUATOR	202728-03		5.16
L.H. BRAKE ACTUATOR	230674-02		5.17
BRAKE MANIFOLD	214884-03		5.18
FUME CONTROL	214930-02		5.21
FUME CNTL. MANIFOLD	214887-03		5.22
C-1 CONVEYOR DRIVE	211351-01	761 & UP	5.23
C-1 HOPPER	226801-01		5.27
C-1 HOPPER CONTROL MANIFOLD	226800-02		5.29
C-1 RAISE / LOWER	214929-01	824 & UP	5.31
C-1 RAISE/LOWER MANIFOLD	214885-01		5.34
CYLINDER, C-1 HOPPER	206666-01		5.35
CYLINDER, C-1 HOPPER RAISE	97482-01		5.36
CYLINDER, C-1 BAFFLE	215523-01		5.37
CYLINDER, C-1 RAISE/LOWER	207380-01		5.38
C-1 HYD. PUSH ROLLER	209080-01	722 & UP	5.39
PUSH ROLLER MANIFOLD	209079-02		5.41
CYLINDER, PUSH ROLLER	147955-03		5.42
C-2 CONVEYOR DRIVE	149543-01		5.43
C-2 HOPPER CLEAN OUT	226792-01		5.47
CYLINDER, C-2 CLEAN OUT	225738-01		5.49
C-3 CONVEYOR DRIVE	145972-01		5.51
C-3 CONTROL	214925-01	824 & UP	5.53
C-3 CNTL. MANIFOLD	214886-02		5.57
CYLINDER, C-3 LIFT	214518-01		5.59
CYLINDER, C-3 SWING	144901-01		5.60
CYLINDER, C-3 CLEAN OUT	144899-01		5.61
FLOWGATE	214927-01		5.63
FLOWGATE CNTL. MANIFOLD	214889-02		5.66
CYLINDER, FLOWGATE	144894-01		5.67
HOOD RAISE	204266-01		5.69
CYLINDER, HOOD RAISE	201812-01		5.71

SECTION 5 : HYDRAULICS

ASSEMBLY	PART NO.	S/N	PAGE NO.
DRIVE (PROPEL)	226480-01		5.73
DIFF. LOCK VALVE	221111-02		5.76
HAND PUMP / PILOT VALVE MANIFOLD	202291-03		5.77
STEERING	226479-01		5.80
CYLINDER, STEERING	219625-03		5.81
JIC FITTING INSTRUCTIONS	134914-02		
HYDRAULIC CHANNEL	226561-01		
SPEED CHART	226500-01		
HOSE LIST	230820-04		
SCHEMATIC	230745-01		

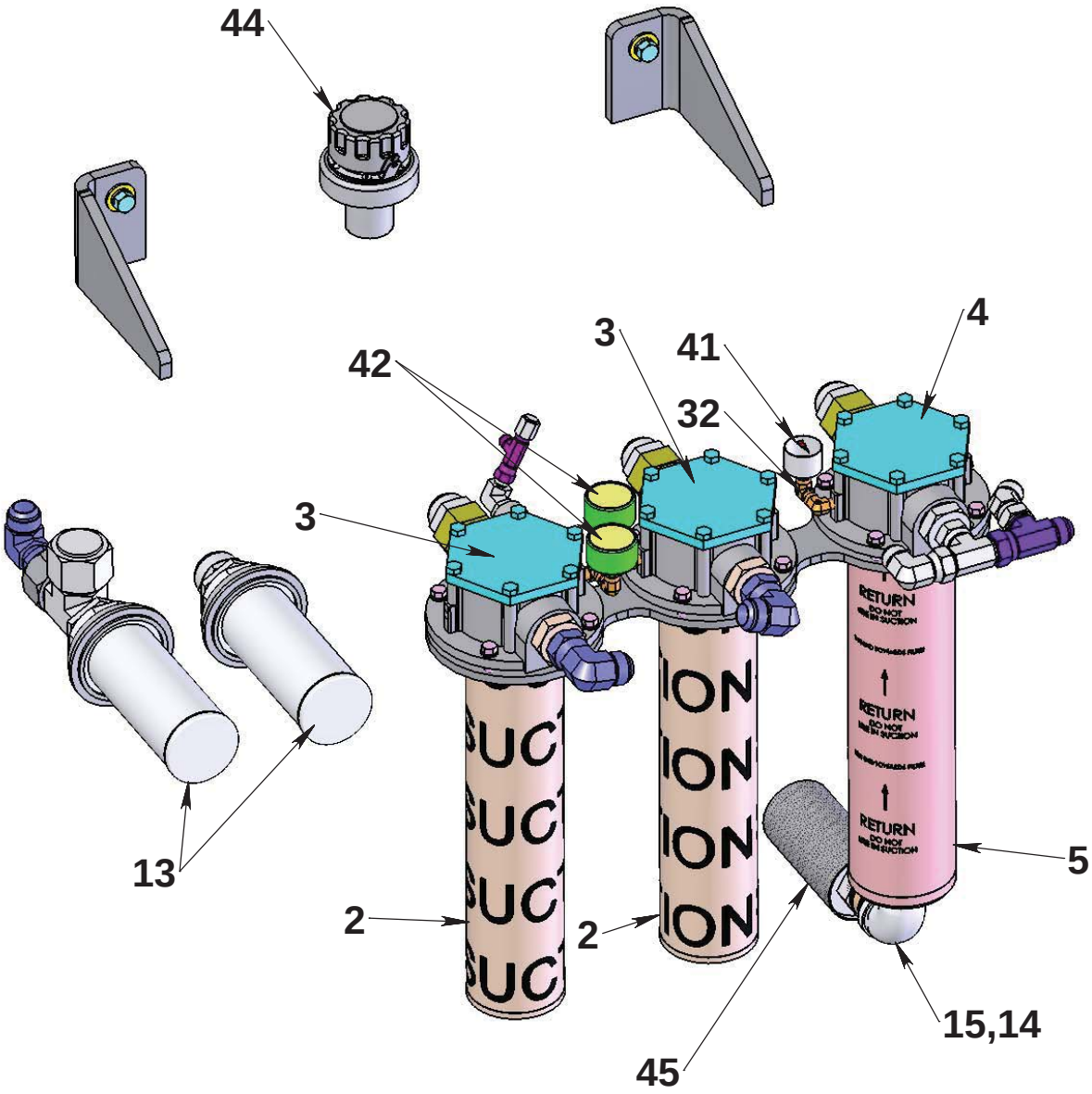
ASSEMBLY ~ HYDRAULIC TANK (228583-01)

NEXT PAGE



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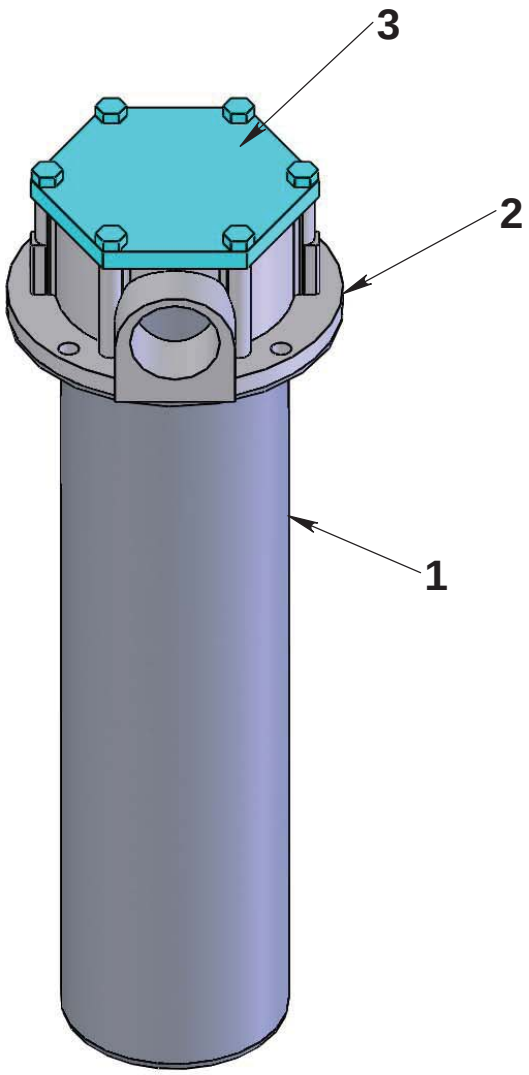
ASSEMBLY ~ HYDRAULIC TANK (228583-01)



ASSEMBLY ~ HYDRAULIC TANK (228583-01)

ITEM #	PART #	DESCRIPTION	QTY
1	228582-01	WELDMENT ~ HYDRAULIC TANK	1
2	229517-03	ELEMENT - LABELED 18" SUCTION	2
3	29g38	FILTER ~ HOUSING DOUBLE ELEMENT	2
4	29g37	FILTER ~ HOUSING 2 ELEMENT W/BYPASS	1
5	229518-03	ELEMENT - LABELED 18" RETURN	1
6	28G05	FIT * ST.ADAPTOR 24 SAEM X 20 SAEF	3
7	137019	FIT * 24 JIC CAP NUT	1
8	96584	FIT * REDUCER 24 JIC F. X 16 JIC M.	1
9	207288-04	FIT * 1 1/2 NPT X 24 JIC M RUN TEE	1
10	89928-04	BUSHING * 2" NPT X 1 1/2" NPT	2
11	84002-04	FIT ~ CONNECTOR 12 JIC -3/4 NPT M.	1
12	142927	FIT ~ 12 JIC - 20 SAE 90 DEG.ELBOW	1
13	89013-04	FILTER * TANK STRAINER 100	2
14	80591	NIPPLE * CLOSE 1 1/4"	1
15	92144	PLUMB * STREET ELBOW 90° 1 1/4" NPT	1
16	97032	PIPE PLUG ~ 3/4" NPT HEX HEAD	1
17	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	1
18	89898-04	FIT ~ BRANCH TEE 12 JIC SWIVEL	1
19	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	2
20	83456-04	FIT ~ ADAPTOR 12 JIC F X 8 JIC REDUCER	1
21	90952-04	FIT * ELBOW 12 JIC 45 DEG. SWIVEL	1
22	84654-04	FIT * SWIVEL ELBOW 16 JIC 90 STEEL	3
23	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	2
24	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
25	92993	FIT * 24 JIC X 1 1/2" NPT M. ST.	1
26	92987	FIT ~ 6 JIC x 10 SAE 90 DEG.	3
27	85391-04	FIT * CAP 6 JIC	1
28	89616	FIT * 8 JIC X 12 SAE ST. MALE	1
29	83988	FIT * CAP 8 JIC STEEL	1
30	127491	FITTING * 8 JIC-12 SAE 90	1
31	120671	FIT ~ 12 JIC x 20 SAE ST.	1
32	23J52	FIT * ELBOW 1/8"NPTM X 1/8 NPTF 90	6
33	84632-04	FIT * CONNECTOR 16 JIC - 20 SAE M.	2
34	84244-04	FIT * CONNECTOR 20 JIC - 20 SAE M	3
35	83317	WASHER * LOCK 1/2" SPRING STEEL	4
36	86164	BOLT * HEX 1/2"-13 X 1 1/4"	4
37	83781-04	WASHER * FLAT 1/2" STEEL	4
38	96476	BOLT * HEX 3/8"-16 X 1 1/4"	12
39	83056	WASHER ~ LOCK 3/8 SPRING STEEL	12
40	97412-04	GAUGE * CHANNEL LIQUID LEVEL	1
41	29E61	GAUGE * PRESS. USE W/15 PSI.FILTER	1
42	33019	GAUGE * VACUUM (SUCTION FILTER)	2
43	208510-04	COVER * 16" RESERVOIR	1
44	87237-04	FILLER CAP	1
45	16w28	RETURN LINE DIFFUSER 1 1/4"NPT	1
46	80250	NIPPLE * CLOSE 3/4"	1
47	92037-04	VALVE * 3/4" APOLLO BALL HANDTYPE	1
48	85394-04	FIT * CAP 12 JIC	1

FILTER ~ HOUSING DOUBLE ELEMENT (29G38)



REPLACEMENT ELEMENT: #229517-03 10 MICRON SUCTION

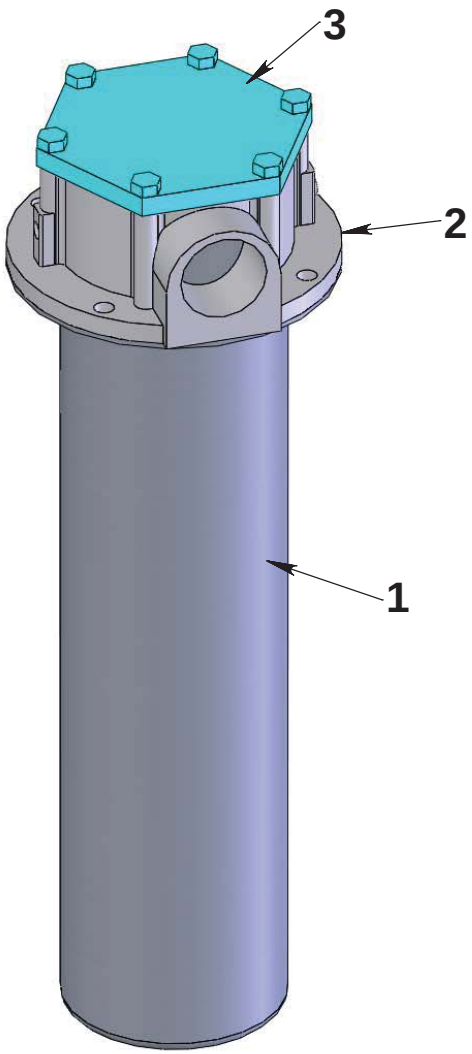
ITEM #	PART #	DESCRIPTION	QTY
1	29g38 bowl	29g38 bowl	1
2	28g38 filter head	28g38 filter head	1
3	29g38 filter head cap	29g38 filter head cap	1

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

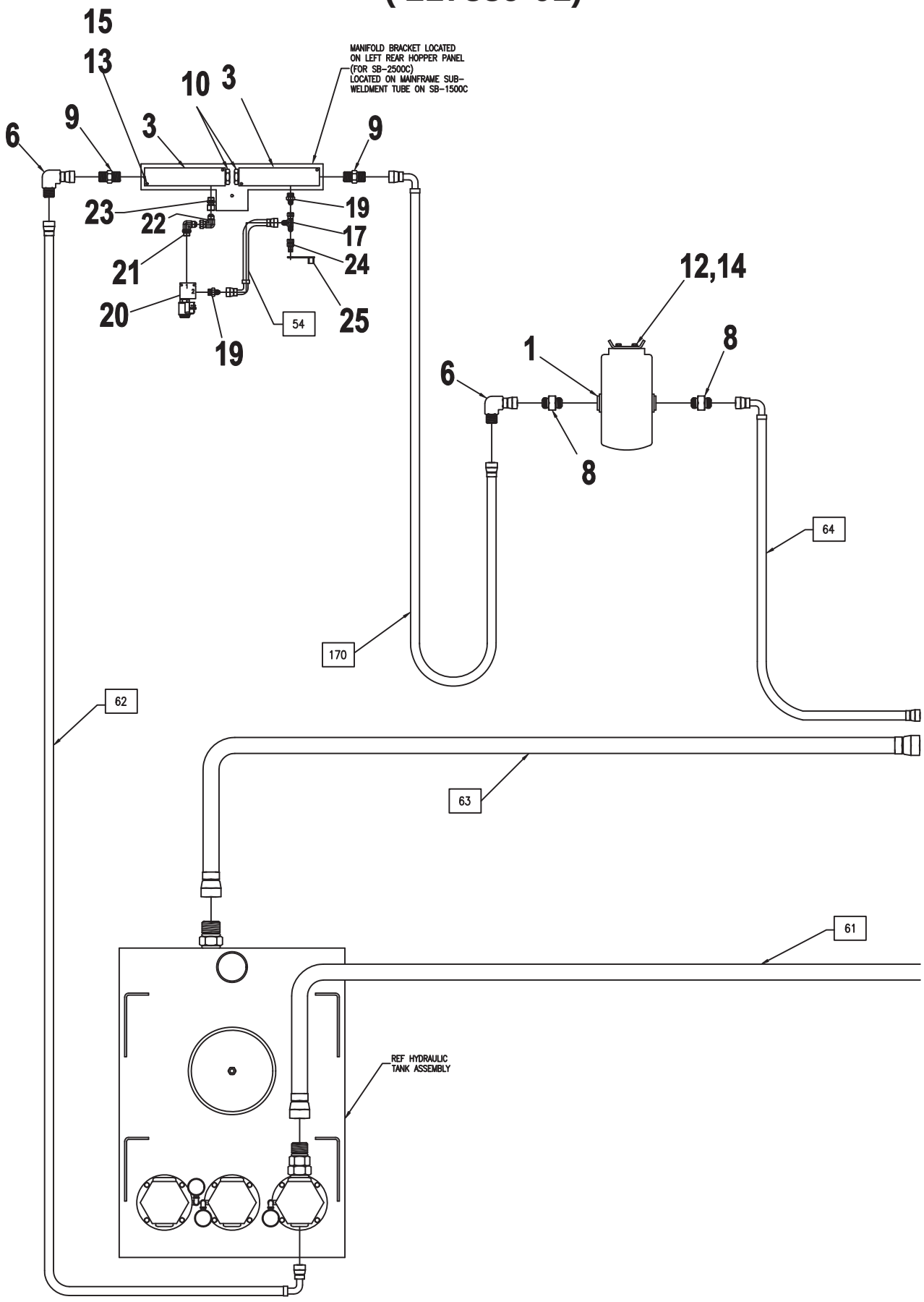
ELEMENT - LABELED 18" RETURN (229518-03)



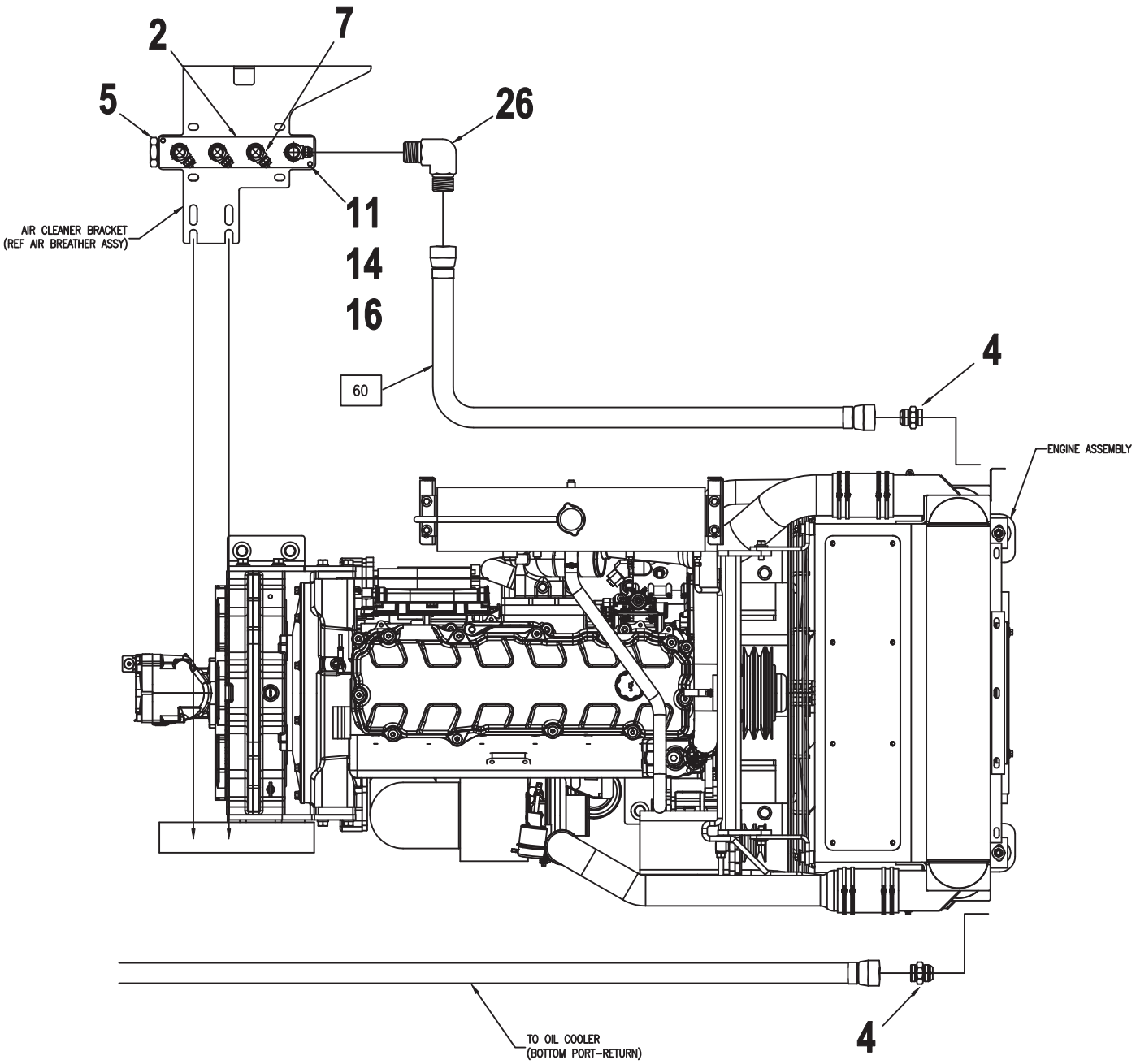
ITEM #	PART #	DESCRIPTION	QTY
1	229518-03	ELEMENT - LABELED 18" RETURN	1

AUXILIARY PUMP & OIL COOLER HYDRAULICS
(217839-01)

NEXT PAGE



AUXILIARY PUMP & OIL COOLER HYDRAULICS
(217839-01)

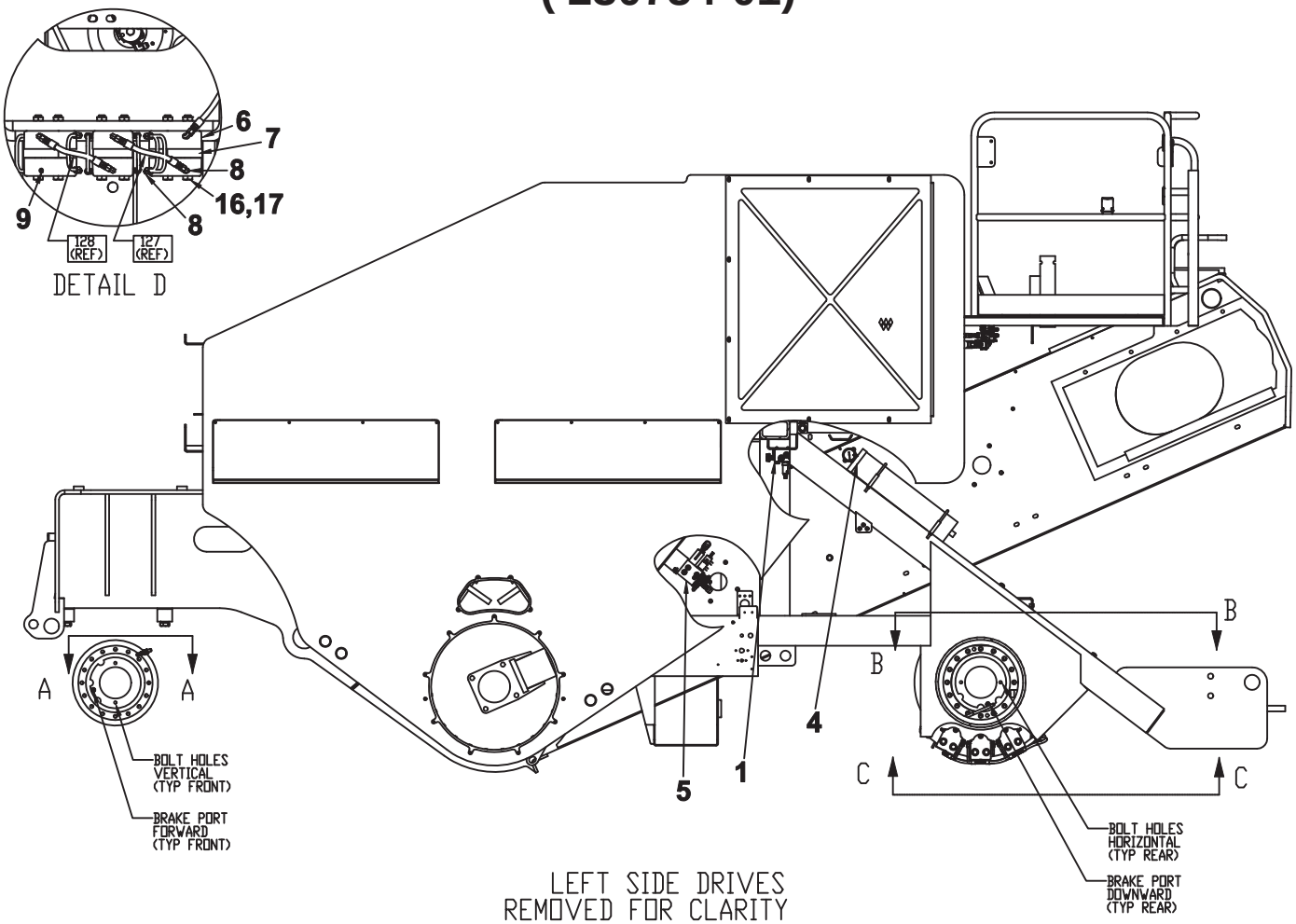


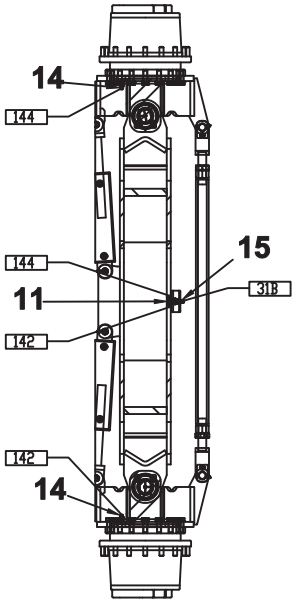
AUXILIARY & OIL COOLER HYD. SUB-ASSY. (217839-01)

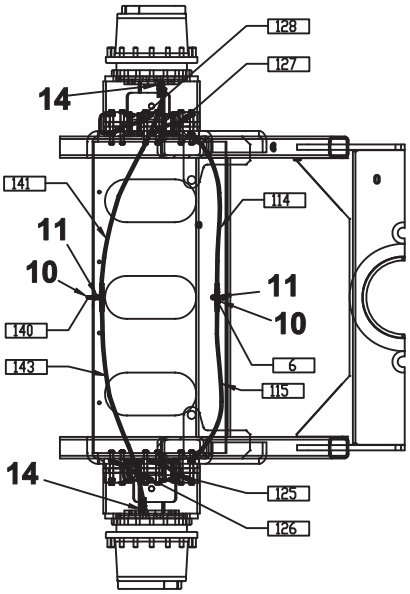
REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	142799-03	FILTER - HIGH PRESSURE IN-LINE	1
2	206524-03	0 DEG. HEADER MANIFOLD	1
3	206522-03	180 DEG. HEADER MANIFOLD	2
4	97168	FIT - 20 SAE X 20 JIC 90 DEG. ELBOW	2
5	127627	FIT - 20 SAE PLUG	1
6	83764-04	FIT - 12 JIC SW 90 DEG. ELBOW	2
7	85875-04	FIT - 16 SAE X 12 JIC 90 DEG. ELBOW	4
8	120671	FIT - 20 SAE X 12 JIC ST CONNECTOR	2
9	83457-04	FIT - 12 SAE X 12 JIC ST CONNECTOR	2
10	83979-04	FIT - 12 SAE PLUG	2
11	12D09	HEX BOLT - 3/8-16 X 3 3/4" GR8	2
12	142926	HEX BOLT - 3/4-24 X 1" GR8	4
13	130521	HEX BOLT - 1/4-20 X 2 3/4" GR8	REF
14	83056	LOCK WASHER - 3/8" SPRING STEEL	6
15	83065	LOCK WASHER - 1/4" SPRING STEEL	4
16	83055	HEX NUT - 3/8-16 GR8	2
17	84636-04	TEE - #6 JIC RUN	1
18			
19	83469-04	FIT - #8 SAE X #6 JIC	2
20	212947-03	VALVE - NC POPPET W/ REVERSE FLOW	1
21	83460-04	ELBOW - #8 SAE X #8 JIC 90 DEG.	1
22	83732-04	ELBOW - #8 JIC SWIVEL 90 DEG.	1
23	122168	ADAPTER - #8 SAE X # JIC FS	1
24	131680-04	FIT - MALE TEST PORT 6 JIC CONNECTOR	1
25	85949-04	FIT - TEST PORT QD CAP 3/8"	1
26	97168	FIT - ELBOW 20 JIC X 20 SAE 90 DEG. ELBOW	1
27			
28			
29			
30			

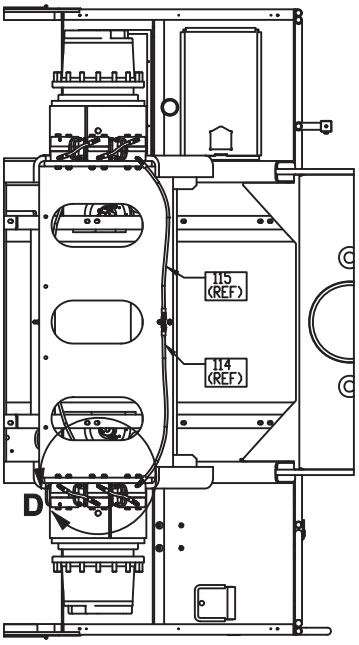
BRAKE CIRCUIT HYDRAULICS
(230754-01)

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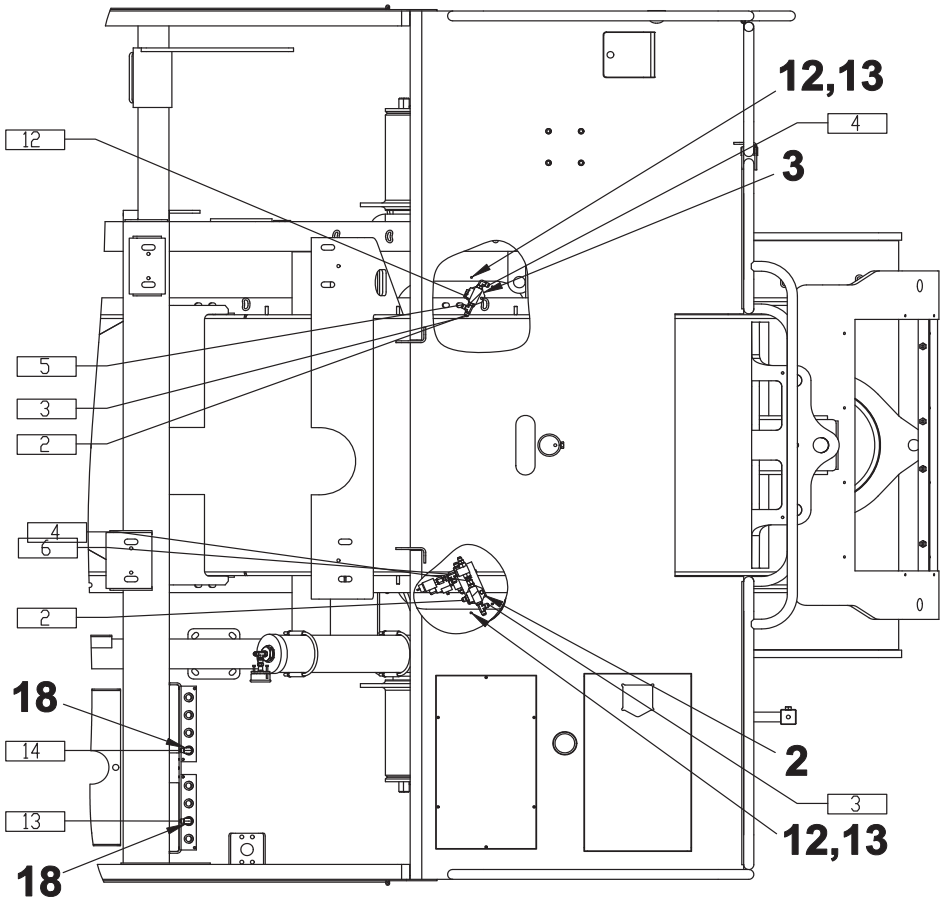




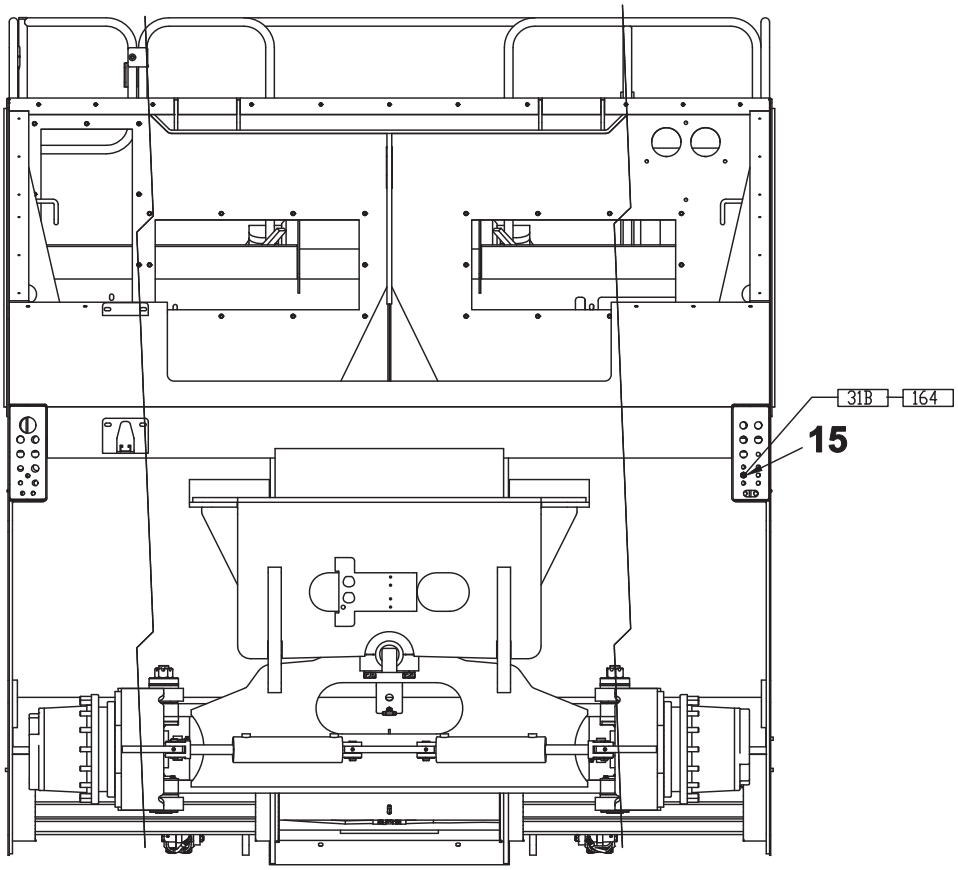




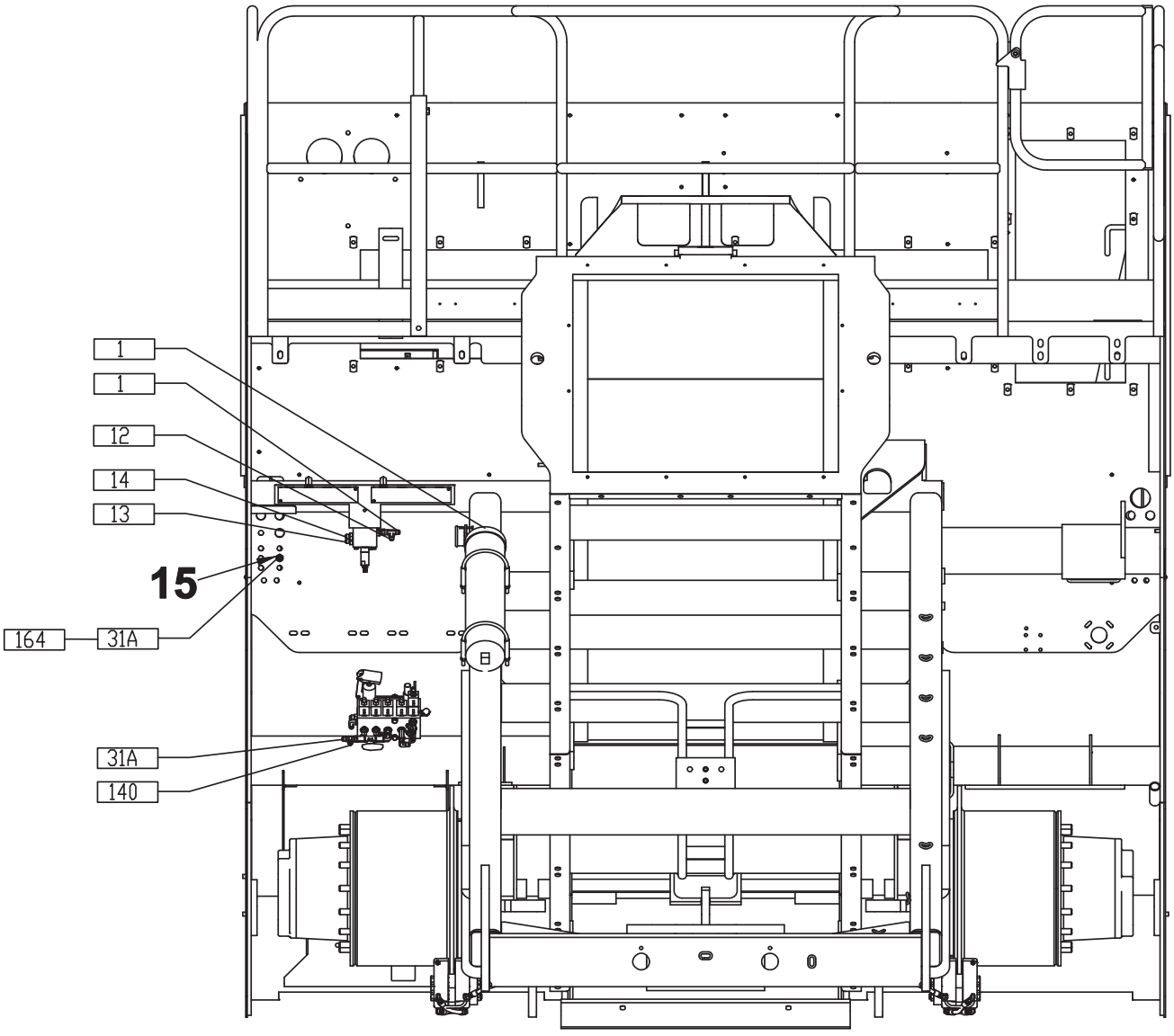
BRAKE CIRCUIT HYDRAULICS
(230754-01)



PARTIAL TOP VIEW



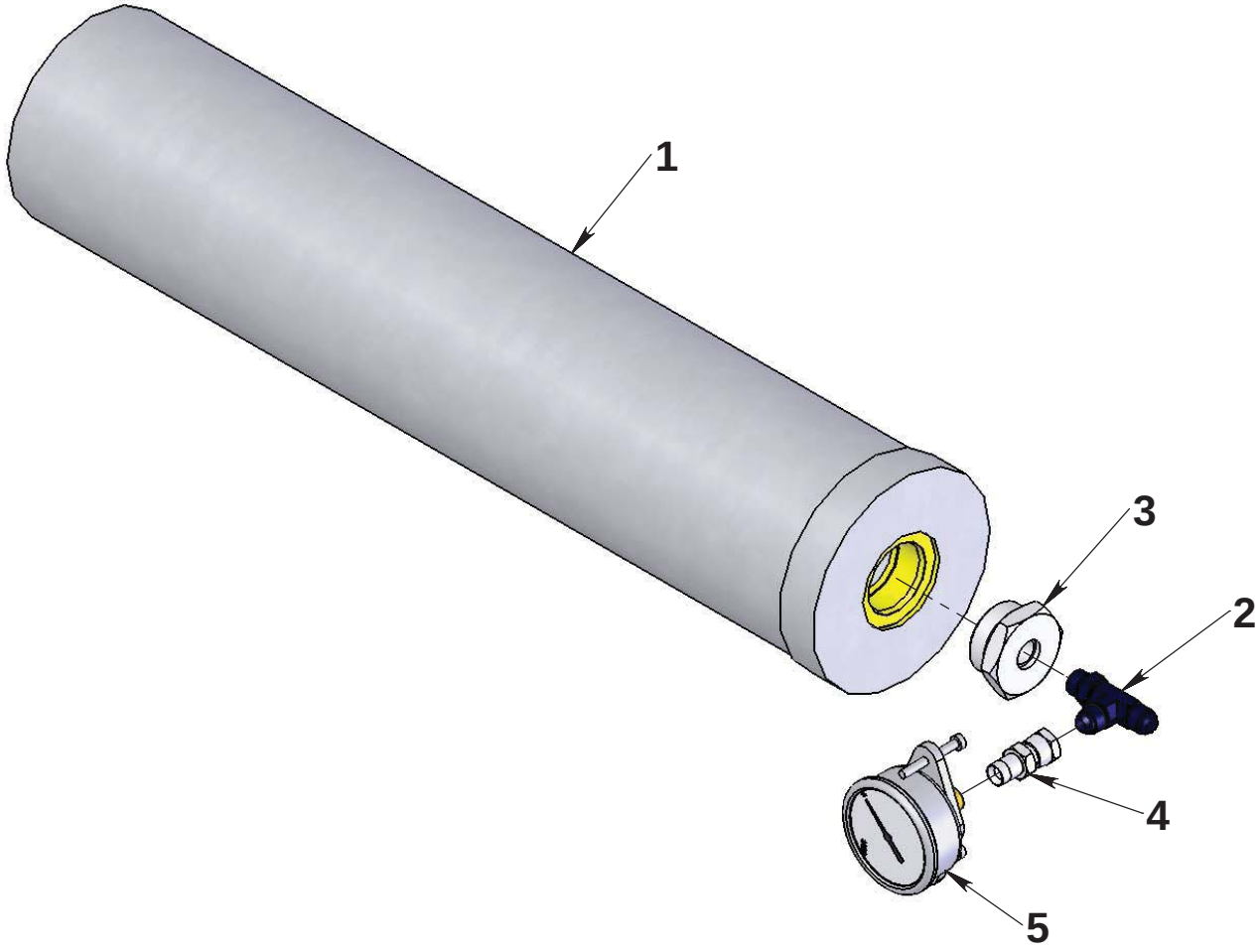
BRAKE CIRCUIT HYDRAULICS
(230754-01)



BRAKE CIRCUIT ASSY.
(230754-01)

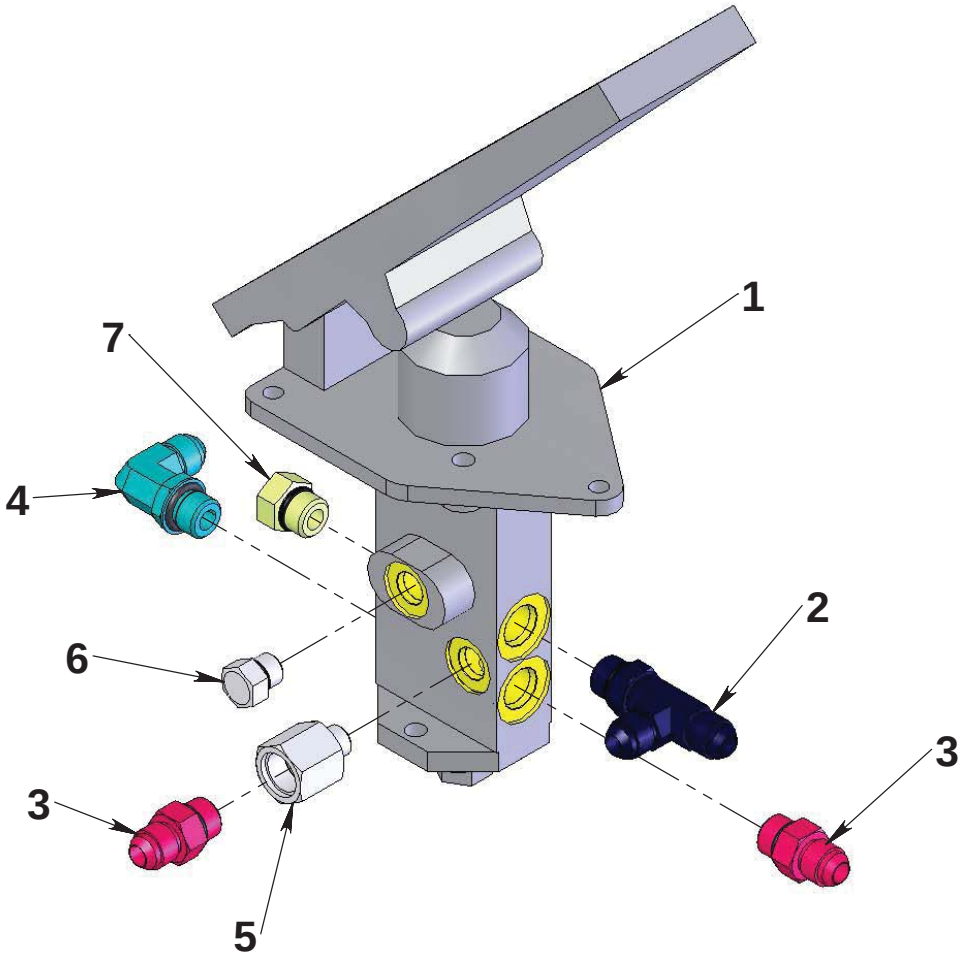
ITEM #	PART NO.	DESCRIPTION	QTY.
1	214884-03	ASSY - BRAKE MANIFOLD	1
2	230674-02	SUB-ASSY - LH BRAKE ACTUATOR VALVE	1
3	202728-03	SUB-ASSY - RH BRAKE ACTUATOR VALVE	1
4	202729-03	SUB-ASSY - BRAKE ACCUMULATOR	1
5	202291-03	ASSY - MANIFOLD HAND PUMP / PILOT VALVE	1
6	123860	BRAKE - DISC CALIPER W/ TUBE	6
7	129634-03-1	FLAT BAR - 7/8" X 2" X 3 15/16" LG CD-1018	6
8	84560-04	FIT - ELBOW 4 JIC - 1/8" NPT 90 DEG. MALE	22
9	84385-04	PLUG 1/8" NPT CSK ALLEN HEAD	2
10	85381	ELBOW 90 DEG. BULKHEAD W/ LOCKNUT - 6 JIC	2
11	89598	FIT - SWIVEL BRANCH TEE 6 JIC	3
12	89773	HEX BOLT - 1/4-20 X 1"	6
13	83065	LOCK WASHER - 1/4" SPRING STEEL	6
14	120550	FIT - 1/4" BSP X 6 JIC ST	4
15	83475-04	FIT - BULKHEAD UNION 6 JIC ST	3
16	129581	BOLT - 5/8-18 X 6"	12
17	130417	JAM NUT - 5/8-18 UNF	12
18	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	2
19			
20			

SUB-ASSY-BRAKE ACCUMULATOR-2500C (202729-03)



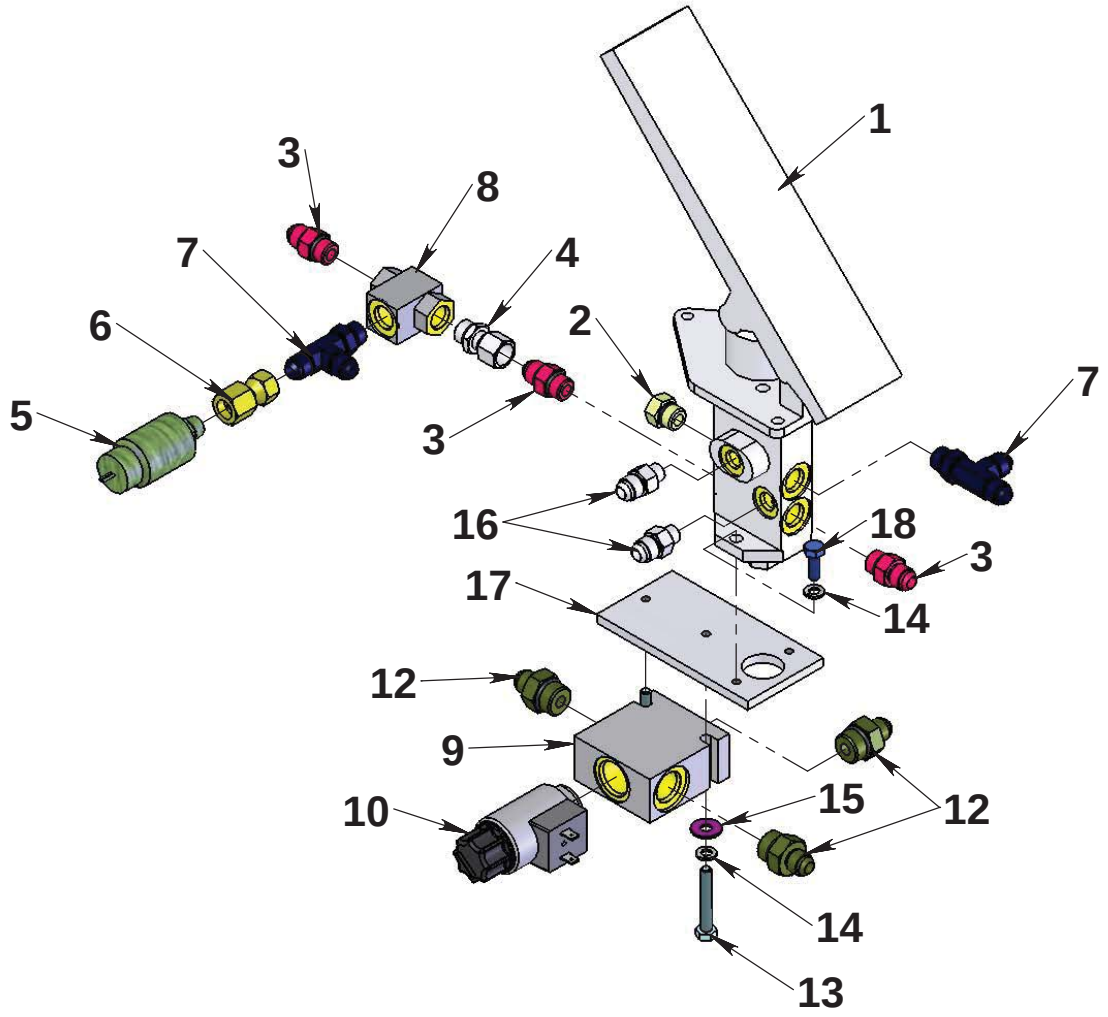
ITEM #	PART #	DESCRIPTION	QTY
1	99389	TANK * TOBUL ACCUMULATOR	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
3	136299-04	FIT * REDUCER 20 SAE MALE-6 SAE FEM	1
4	86622-04	FIT * 1/4 NPT M - 6 JIC FEM SWIVEL	1
5	89059-04	GAUGE * 0-3000 PSI U-N-U-GF	1

SUB-ASSY-RH BRAKE ACTUATOR VALVE (202728-03)



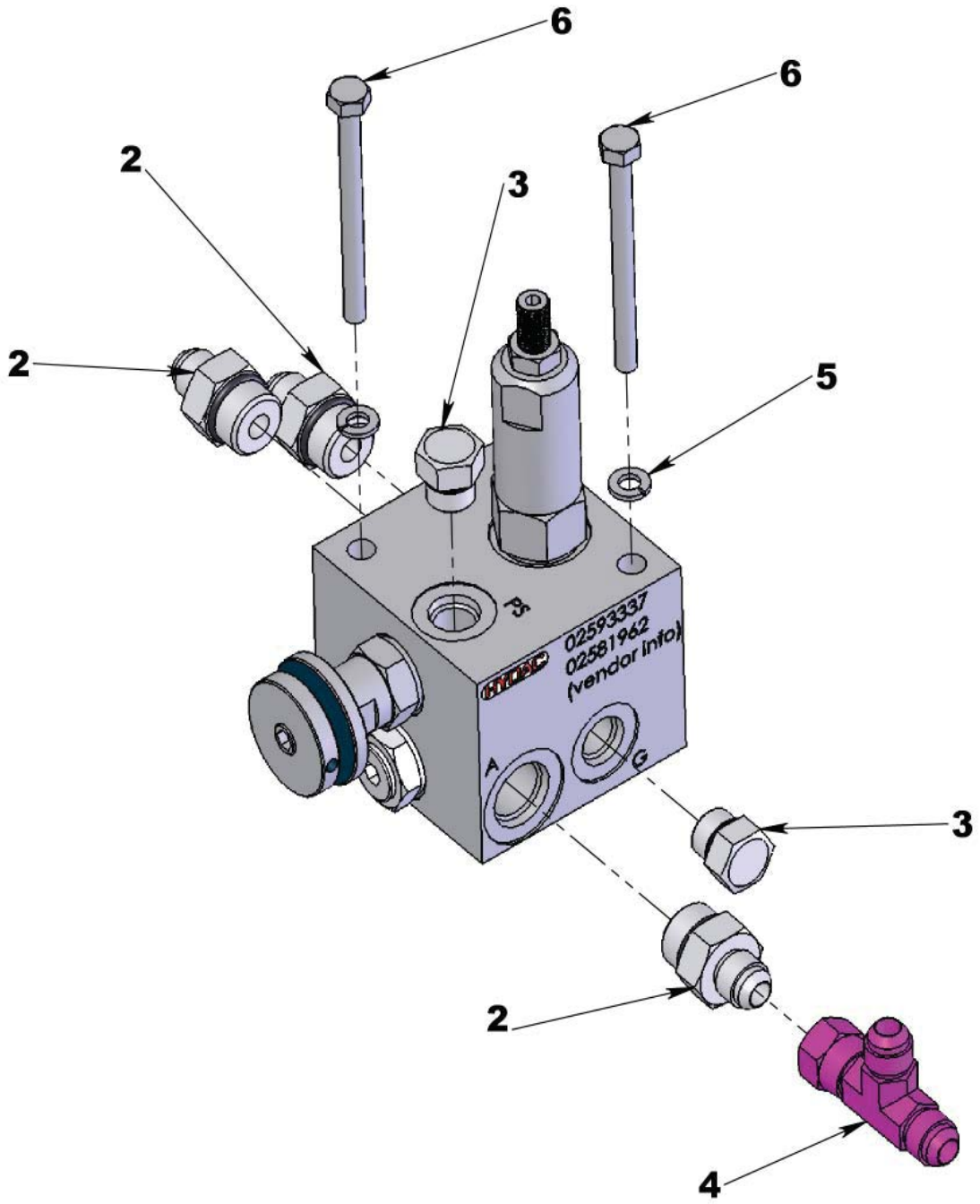
ITEM #	PART #	DESCRIPTION	QTY
1	99365	VALVE * ACTUATOR HYD. POWER BRAKE	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
4	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	1
5	88579-04	FIT * ADAPTOR 4 SAE M. - 6 SAE F.	1
6	89897-04	FIT * PLUG 4 SAE	1
7	84635-04	FIT * PLUG 6 SAE	1

ASSEMBLY-LH BRAKE ACTUATOR VALVE (230674-02)



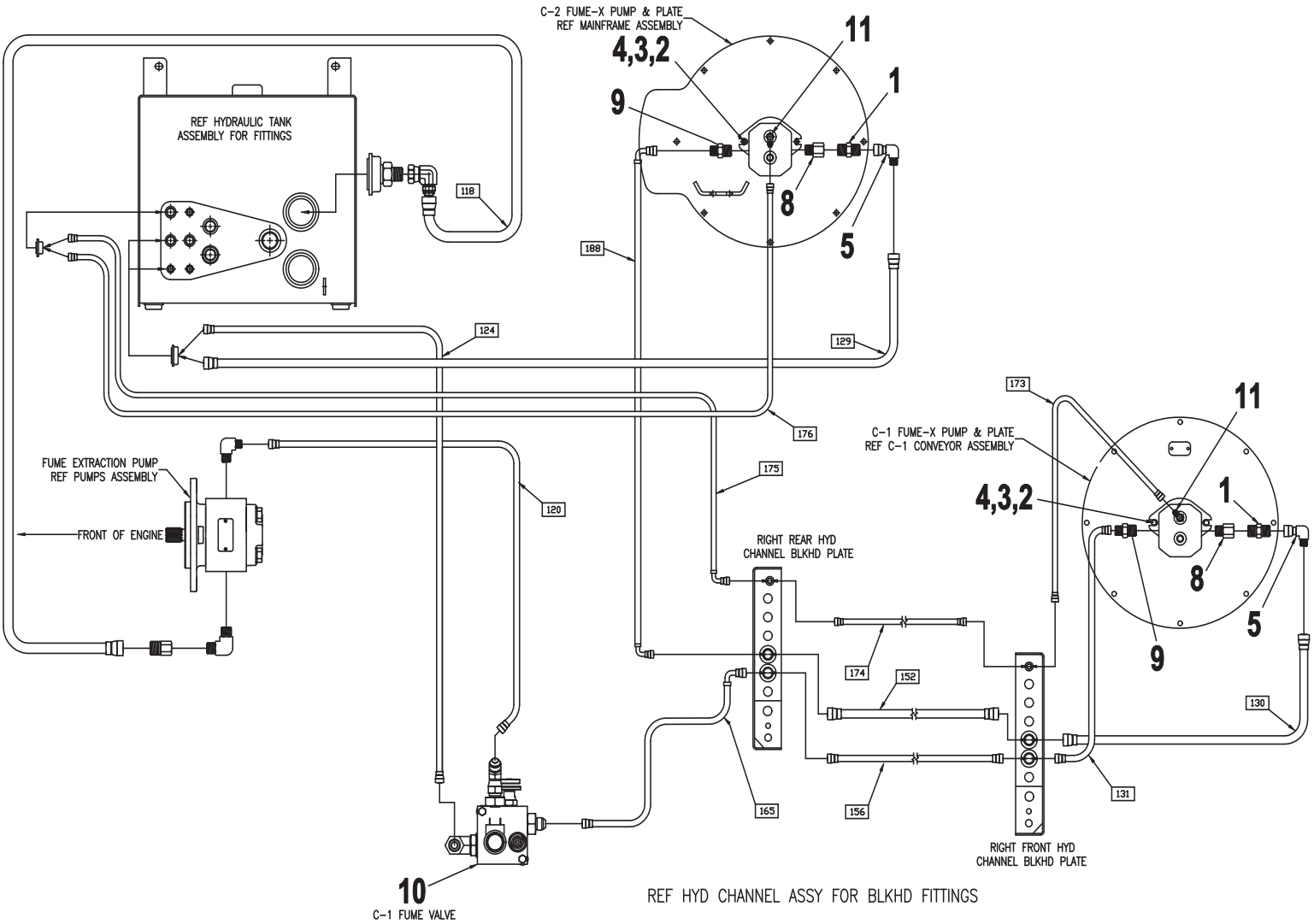
ITEM #	PART #	DESCRIPTION	QTY
1	99365	VALVE * ACTUATOR HYD. POWER BRAKE	1
2	84635-04	FIT * PLUG 6 SAE	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	3
4	135923-04	FIT * 6 SAE MALE - 6 JIC FEM SW.STR	1
5	215977-03	ASSY-BRAKE PRESSURE SWITCH	1
6	132960-04	FIT-CONNECTOR SWIVEL F 6 JIC - 4 NPT	1
7	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	2
8	200507-03	VALVE * HYDRAFORCE SHUTTLE 6 SAE	1
9	224499-04	VALVE BODY - HYDAC 10-3	1
10	206727-01-C2	CARTRIDGE VALVE WITHOUT COIL	1
11	206726-01-C4	COIL	1
12	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	3
13	130520	BOLT * 1/4-20 X 1 3/4	2
14	83065	WASHER ~ LOCK 1/4" SPRING STEEL	4
15	84444	WASHER * FLAT 1/4" STEEL	2
16	122167	FIT * 6 JIC - 4 SAE ST	2
17	230744-03	DETAIL-VALVE MOUNT PLATE	1
18	89988-04	BOLT * HEX 1/4"-20 X 3/4"	2

BRAKE MANIFOLD
(214884-03)



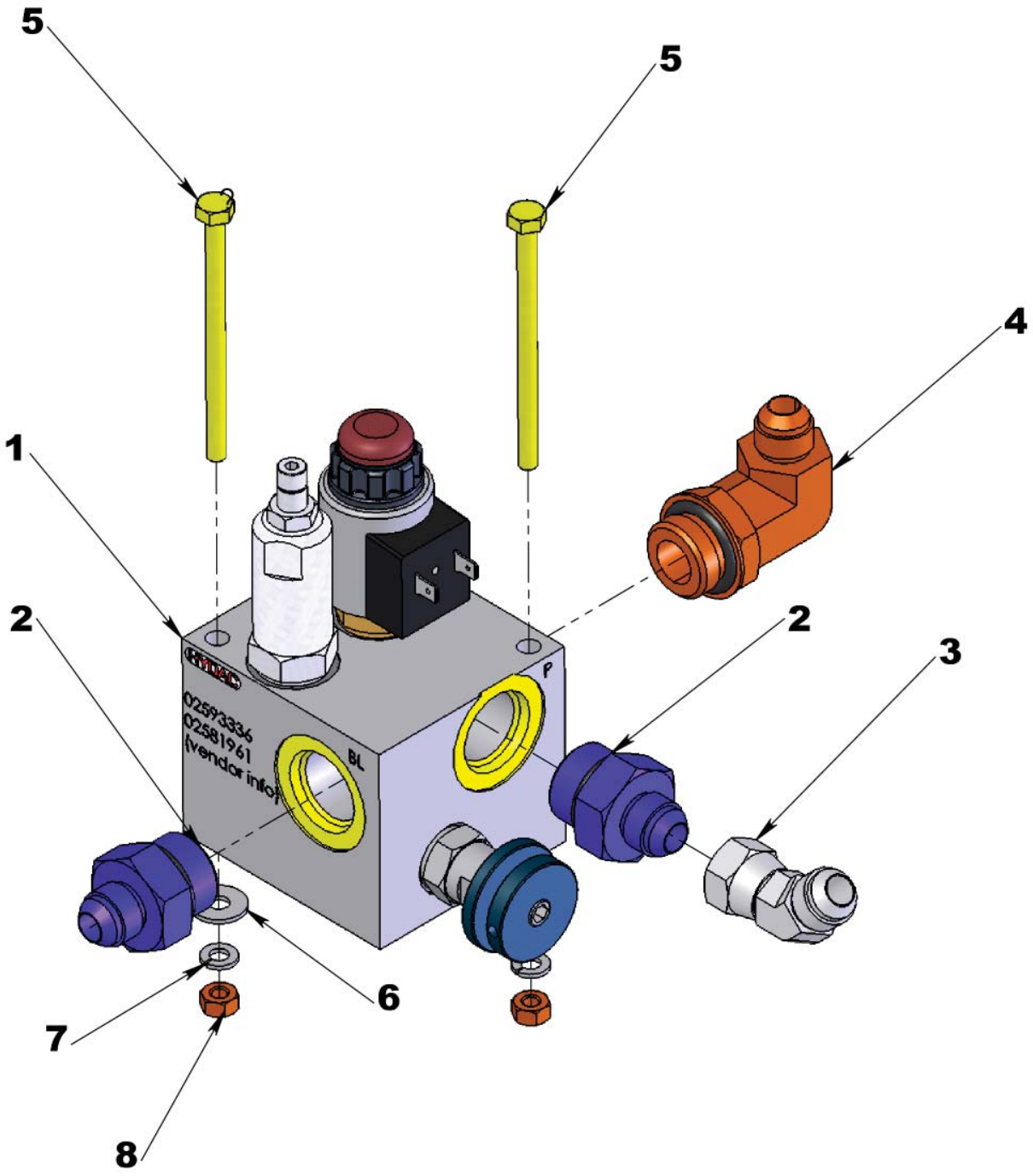
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211542-01	MANIFOLD * BRAKE PRESSURE	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	3
3	84635-04	FIT * PLUG 6 SAE	2
4	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	1
5	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
6	91836-04	BOLT * HEX 1/4"-20 X 3"	2

FUME CONTROL HYDRAULICS
(214930-02)



REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	142848-04	CHECK VALVE - #12 100 PSI CRACKING	2
2	96476	HEX BOLT - 3/8-16 X 1 1/4" GR8	4
3	83757	FLAT WASHER - 3/8" STEEL	8
4	93175	LOCK NUT - 3/8-16 SPRING STEEL	4
5	83764-04	FIT - 12 JIC SW 90 DEG. ELBOW	2
6			
7			
8	89786-04	ADAPTER - 10 SAE M - 12 SAE FM	1
9	83704-04	FIT - 10 SAE X 8 JIC M ST CONNECTOR	2
10	214887-03	MANIFOLD - FUME EXTRACTION	1
11	83734-04	FIT - 6 JIC - 6 SAE 90 DEG.	2

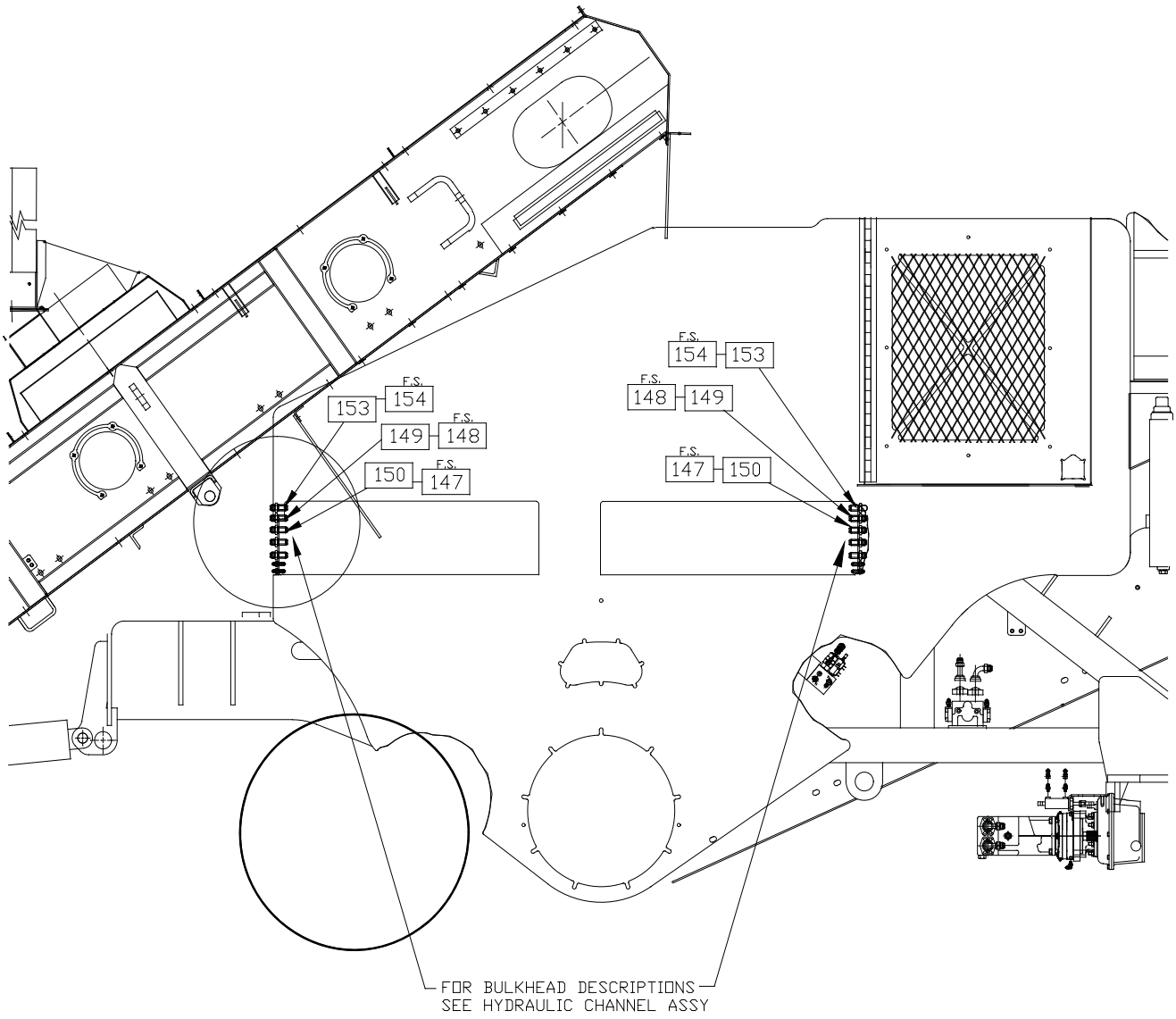
FUME CONTROL MANIFOLD
(214887-03)

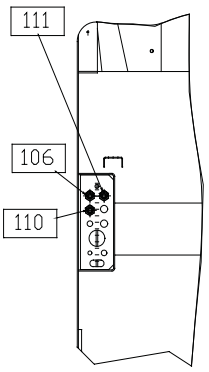


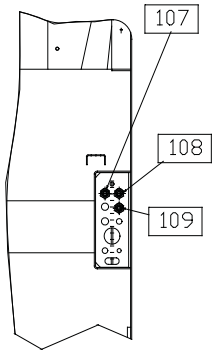
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211541-01	MANIFOLD * FXS	1
2	89616	FIT * 8 JIC X 12 SAE ST. MALE	2
3	85218-04	FIT * ELBOW SWIVEL 8 JIC 45 DEG.	1
4	127491	FITTING * 8 JIC-12 SAE 90	1
5	146144	BOLT * HEX 1/4-20 X 3 3/4 GRADE 8	2
6	84444	WASHER * FLAT 1/4" STEEL	2
7	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
8	89772	NUT * 1/4"-20 HEX GRADE 8	2

C-1 DRIVE HYDRAULICS
(211351-01)

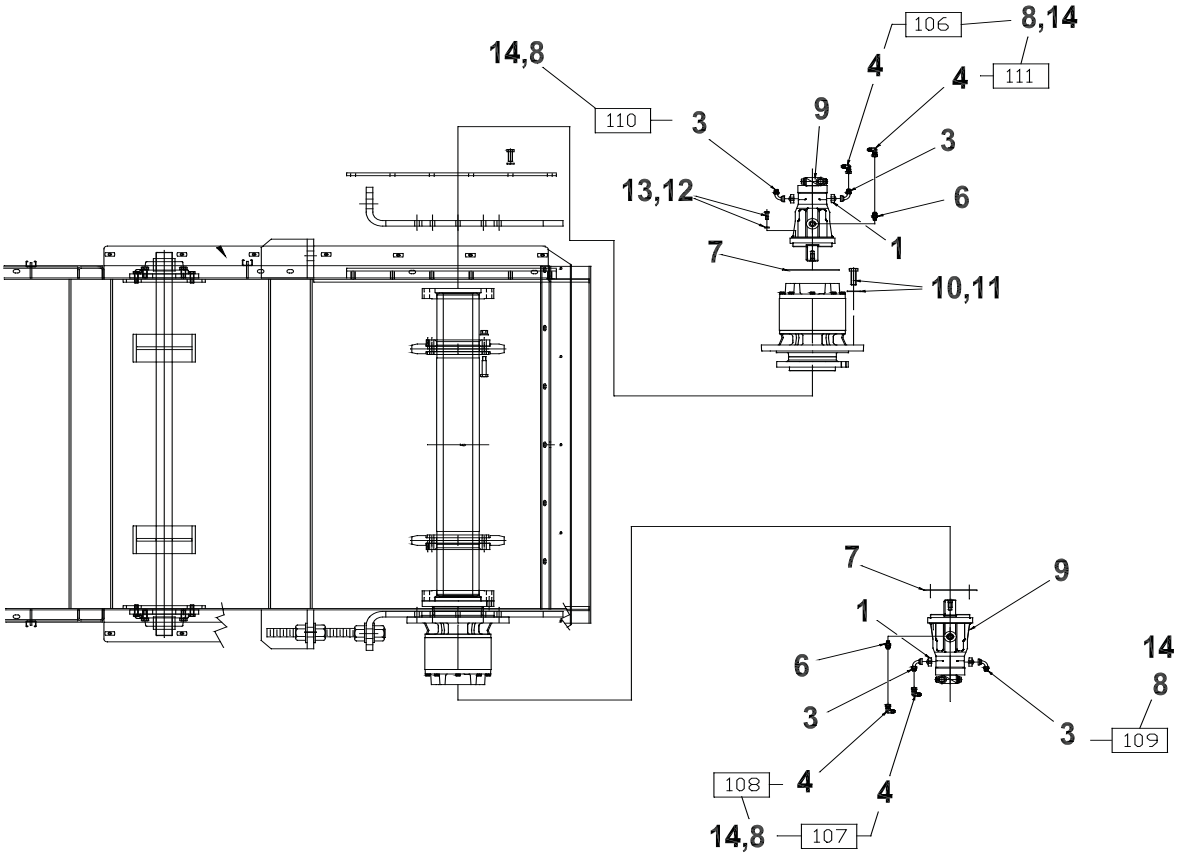
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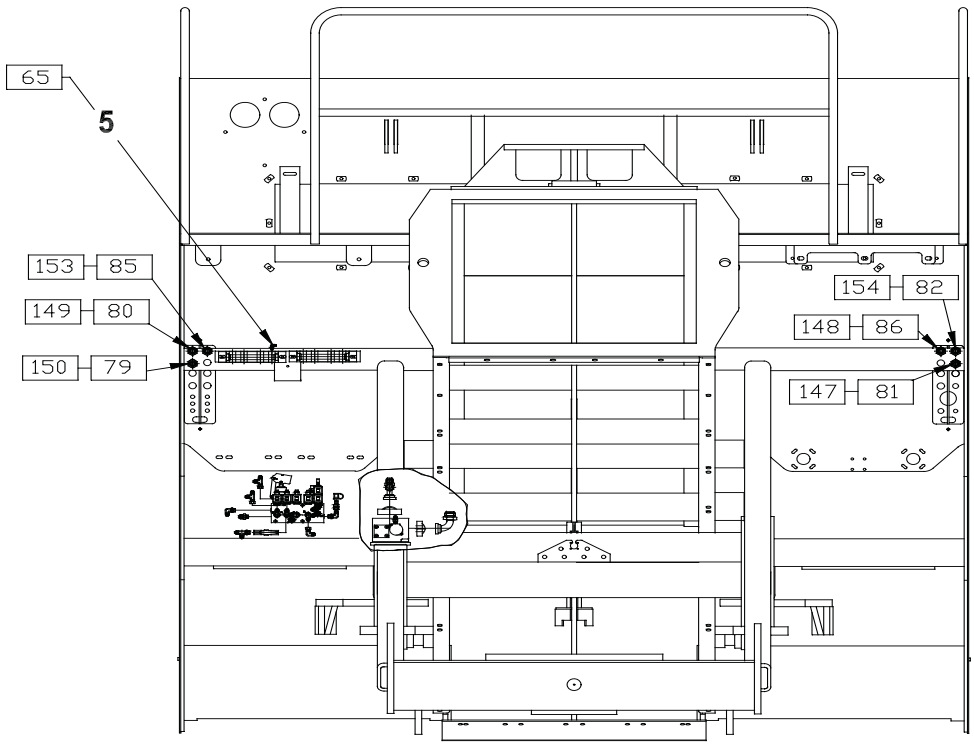






C-1 DRIVE HYDRAULICS
(211351-01)

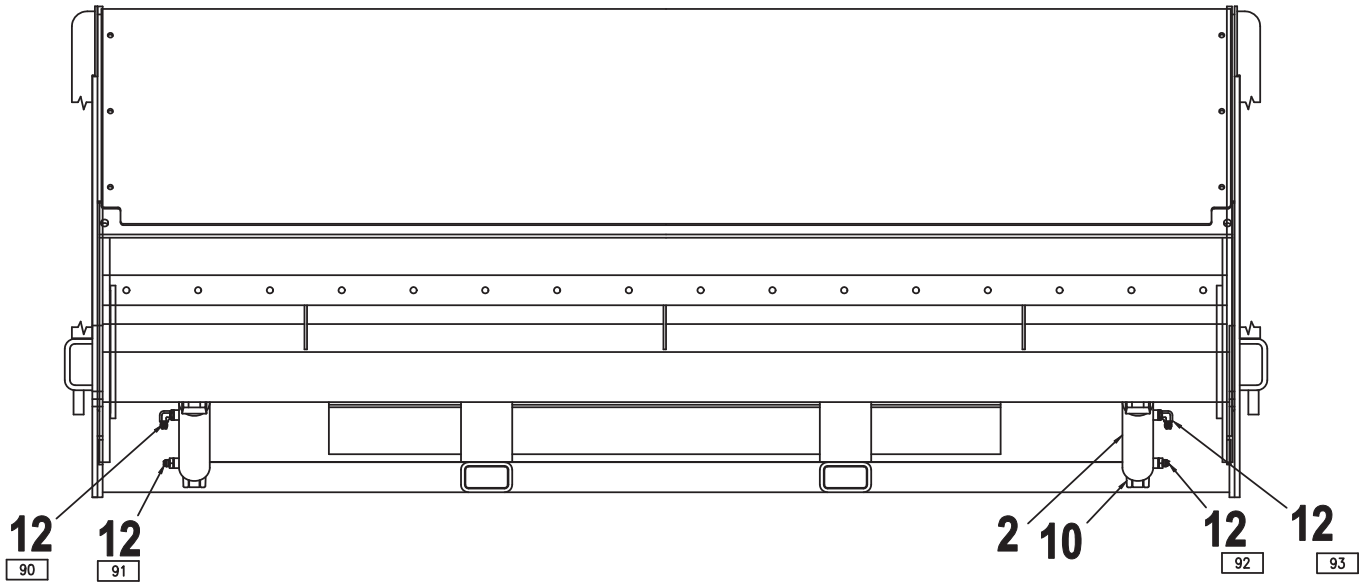


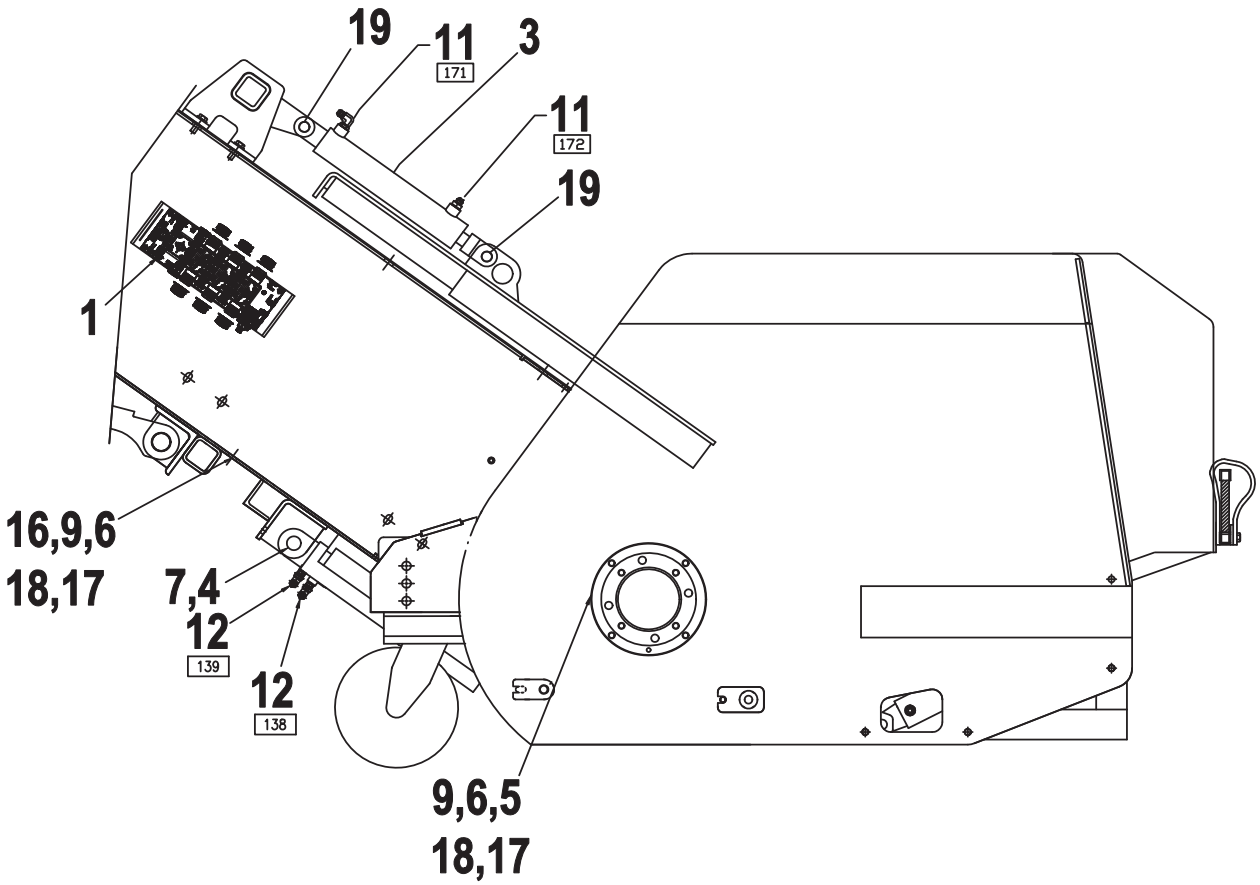


C-1 DRIVE HYDRAULICS
(211351-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	86076-04	FIT - 12 JIC FLANGE KIT	4
2	89986-04	HEX BOLT - 3/8-16 X 4 1/2" GR8	16
3	83890-04	FIT - 12 JIC X 12 FLANGE 90 DEG. CODE 62	4
4	83764-04	FIT - JIC M X 12 JIC F SWIVEL 90 DEG. CONNECTOR	4
5			
6	83458-04	FIT - 8 SAE X 12 JIC ST CONNECTOR	2
7	130086-C1	GASKET - FOR AUSCO BRAKE	2
8	11K76	CLAMP - MOUNTING FOR 1 1/4" OD TUBE	8
9	142642-04	MOTOR - BENT AXIS 60 CC / REV.	2
10	93189	HEX BOLT - 3/4-10 UNC X 2 1/4" LG GR8	REF
11	83752-04	LOCK WASHER - 3/4" ID NOM. SPRING STEEL	REF
12	89142	HEX BOLT - 1/2-13 UNC X 1 3/4" LG GR8	8
13	O5707	CONICAL WASHER - 1/2" ID NOM.	8
14	149015	CLAMP - MOUNTING FOR 1 1/8" OD TUBE	4

C-1 DUMP HOPPER HYDRAULICS
(226801-01)

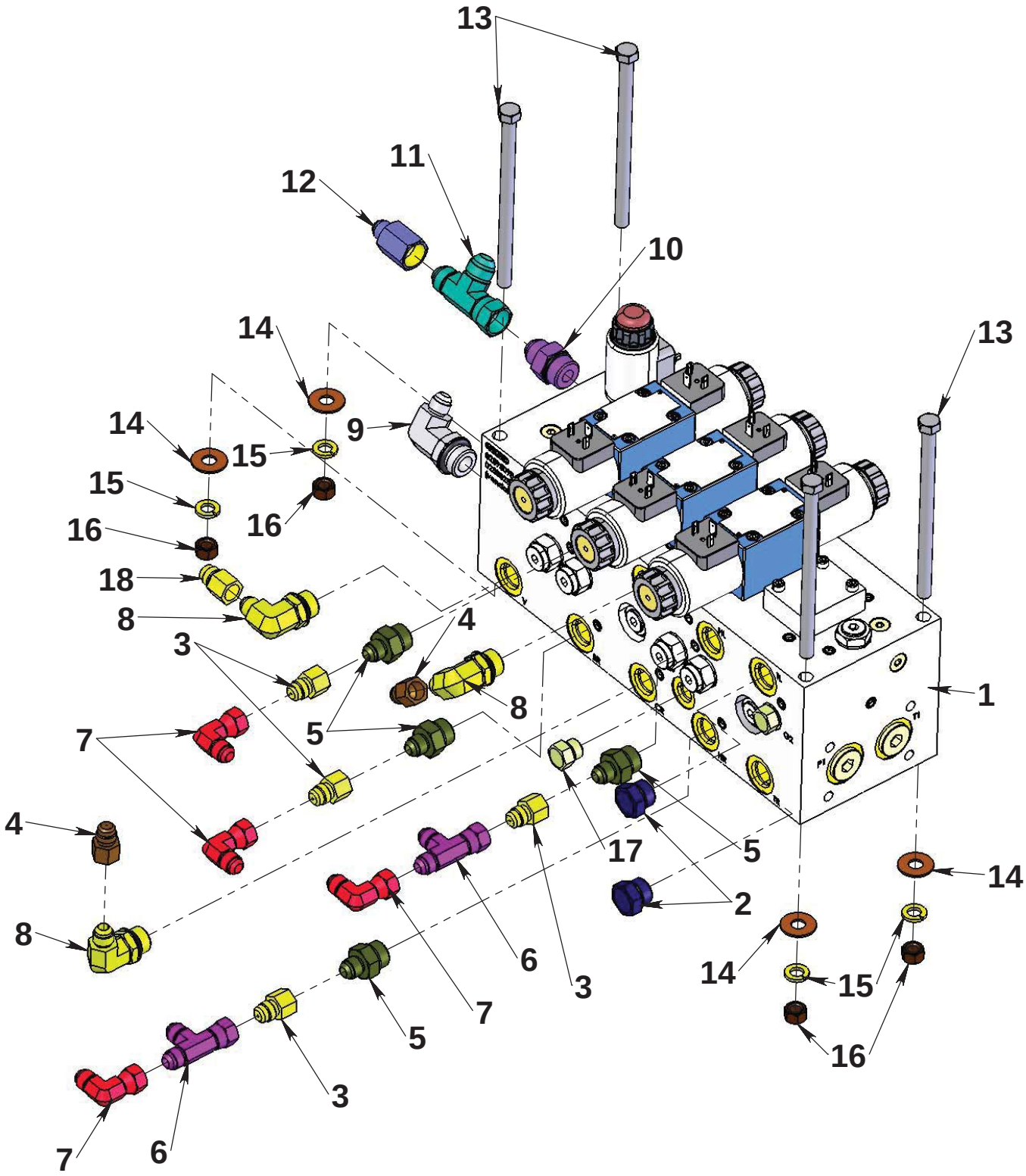




C1 HOPPER CONTROLS HYD. ASSY. (226801-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	226800-02	ASSY - C1 HOPPER CONTROLS MANIFOLD	1
2	206666-01	CYL - 4.00 BORE X 8.00 STROKE	2
3	97482-01	CYLINDER - 2 1/2" BORE X 12" STROKE	1
4	215523-01	CYL - 3" BORE X 15 3/4" STROKE	1
5	99965	CLAMP - 2" RUBBERIZED TUBE	5
6	83055	HEX NUT -3/8-16 GR8	21
7	83786-04	PIN - COTTER 1/8" X 2"	2
8	16P29	CLAMP - BOLT SIZE 1/2" HOSE	7
9	83056	LOCK WASHER - 3/8" SPRING STEEL	21
10	27D66	PIN - COTTER 3/16" X 2"	4
11	83735-04	FIT - 6 JIC - 6 SAE ST MALE	2
12	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	6
13			
14			
15			
16	147412-04	CLAMP - 1 9/16" HOSE X 3/8" BOLT	10
17	84332	HEX BOLT - 3/8-16 X 1" GR8	20
18	83757	FLAT WASHER - 3/8" STEEL	21
19	83130-04	PIN - COTTER 1/8" X 1 1/2"	2
20			

ASSEMBLY ~ C1 HOPPER CONTROLS MANIFOLD (226800-02)

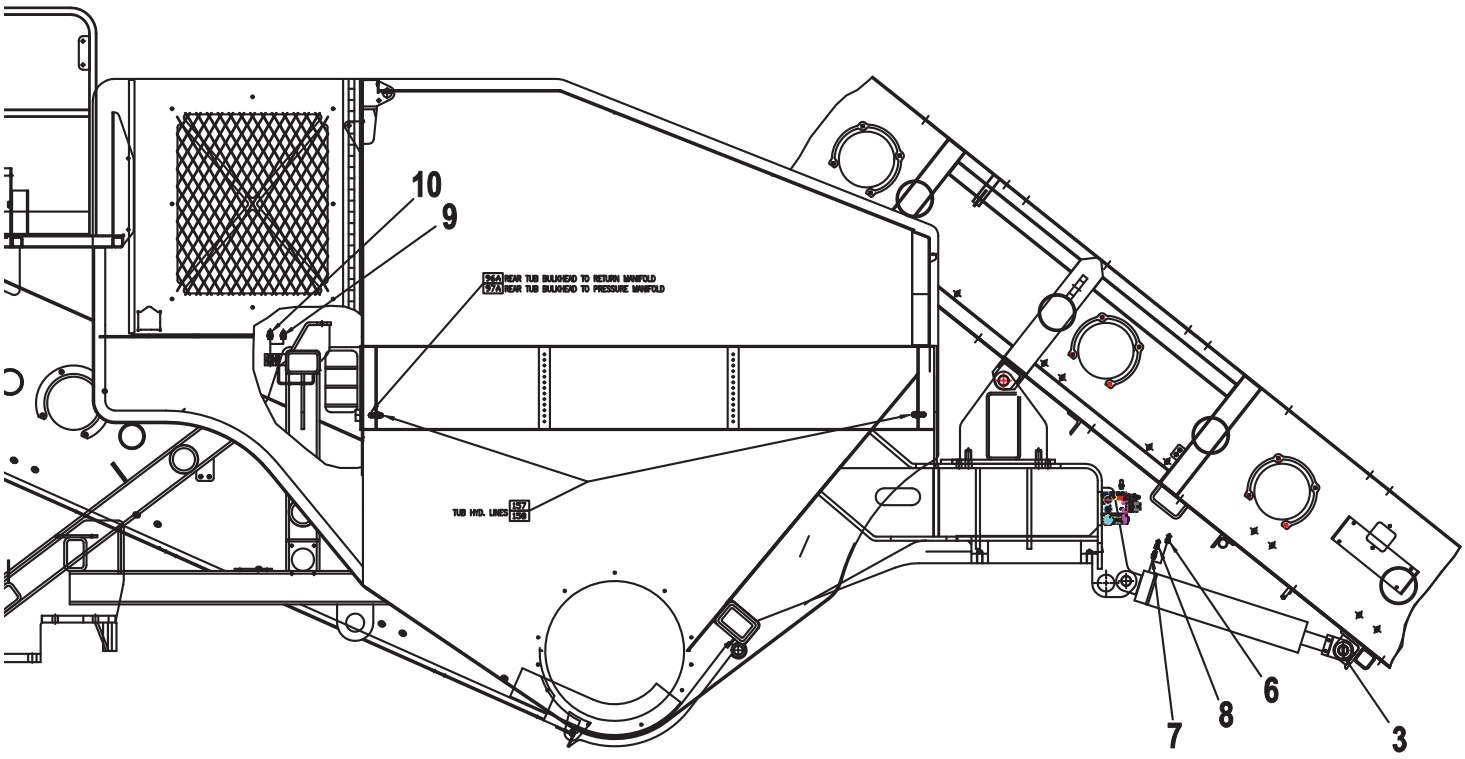


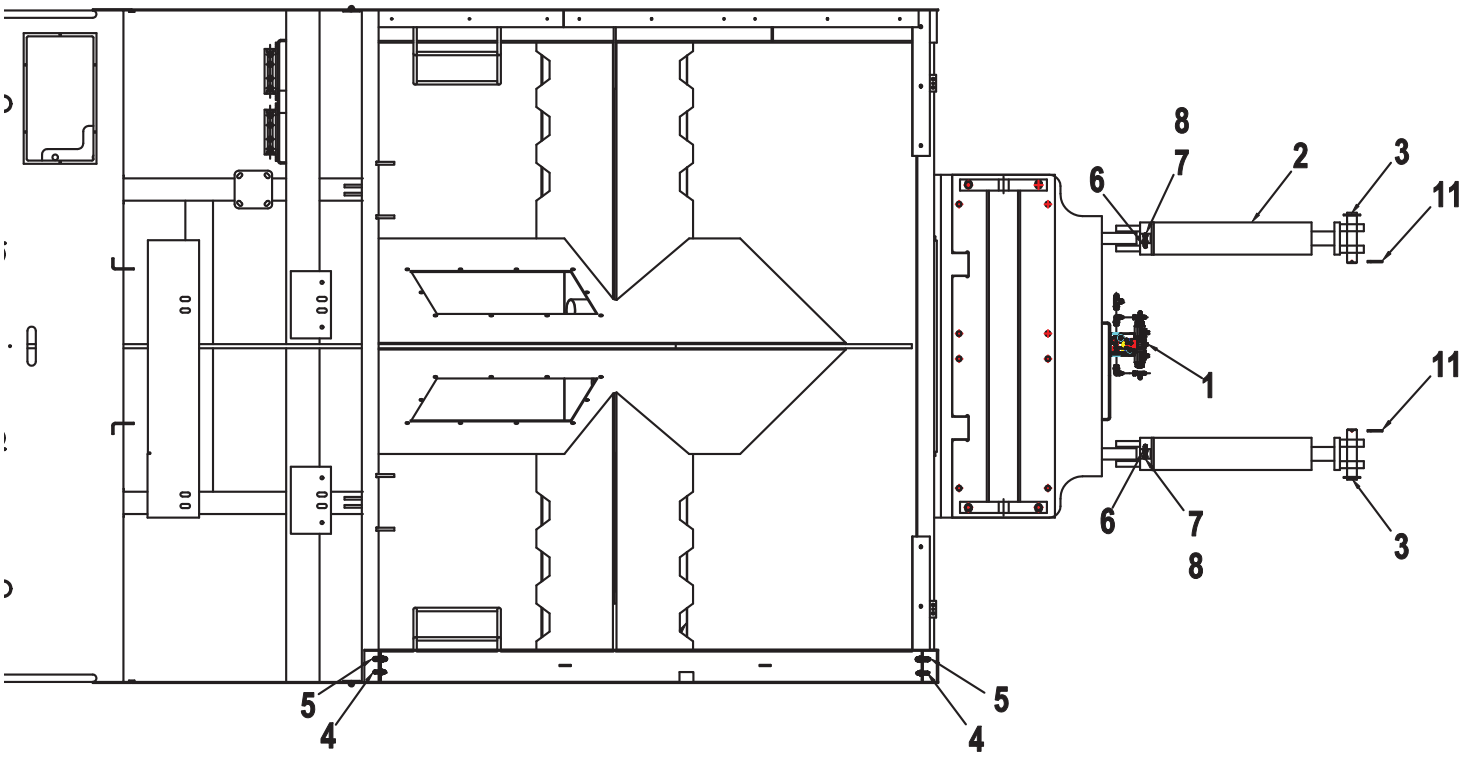
ASSEMBLY ~ C1 HOPPER CONTROLS MANIFOLD (226800-02)

ITEM #	PART #	DESCRIPTION	QTY
1	223414-02	MANIFOLD * C1 HOPPER CONTROL	1
2	83767-04	FIT ~ PLUG 8 SAE	2
3	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	4
4	135409-04	FIT * REST 6 JIC X 1/32"ORIFICE ST	2
5	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
6	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	2
7	83953-04	FIT ~ FM SWIVEL ELBOW 6 JIC 90 DEG.	4
8	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	3
9	92987	FIT ~ 6 JIC x 10 SAE 90 DEG.	1
10	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
11	84638-04	FIT ~ SWIVEL RUN TEE 8 JIC	1
12	84060-04	FIT ~ ADAPTOR 8 JIC - 6 JIC RED.	1
13	26L62	BOLT * HEX 3/8"-16 X 6"	4
14	83757	WASHER ~ FLAT 3/8 STEEL	4
15	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
16	83055	NUT * 3/8-16 HEX GRADE 8	4
17	84635-04	FIT * PLUG 6 SAE	2
18	139793-04	FIT * RESTRICTOR 3/64 ORIFICE	1

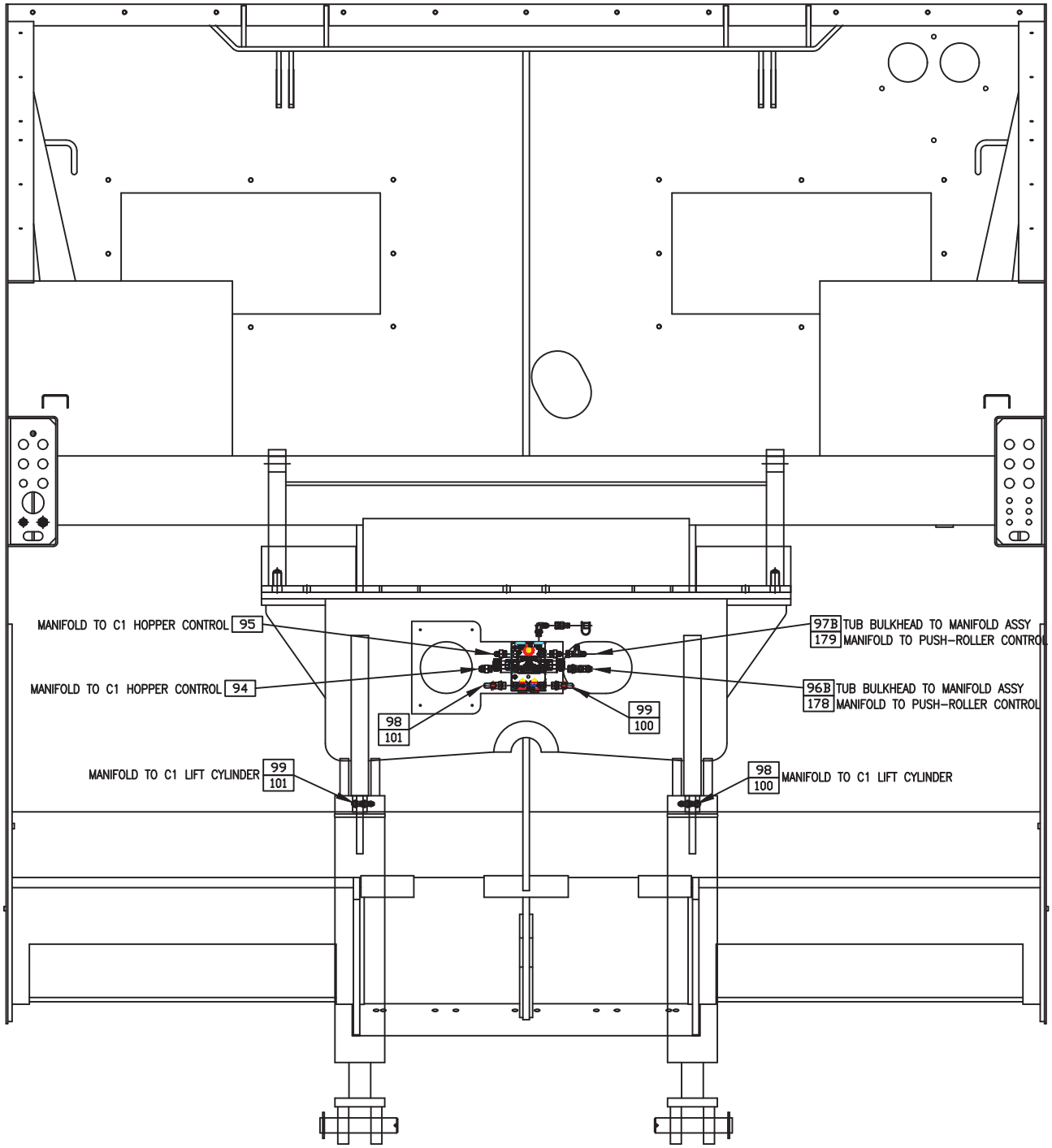
C-1 RAISE / LOWER HYDRAULICS
(214929-01)

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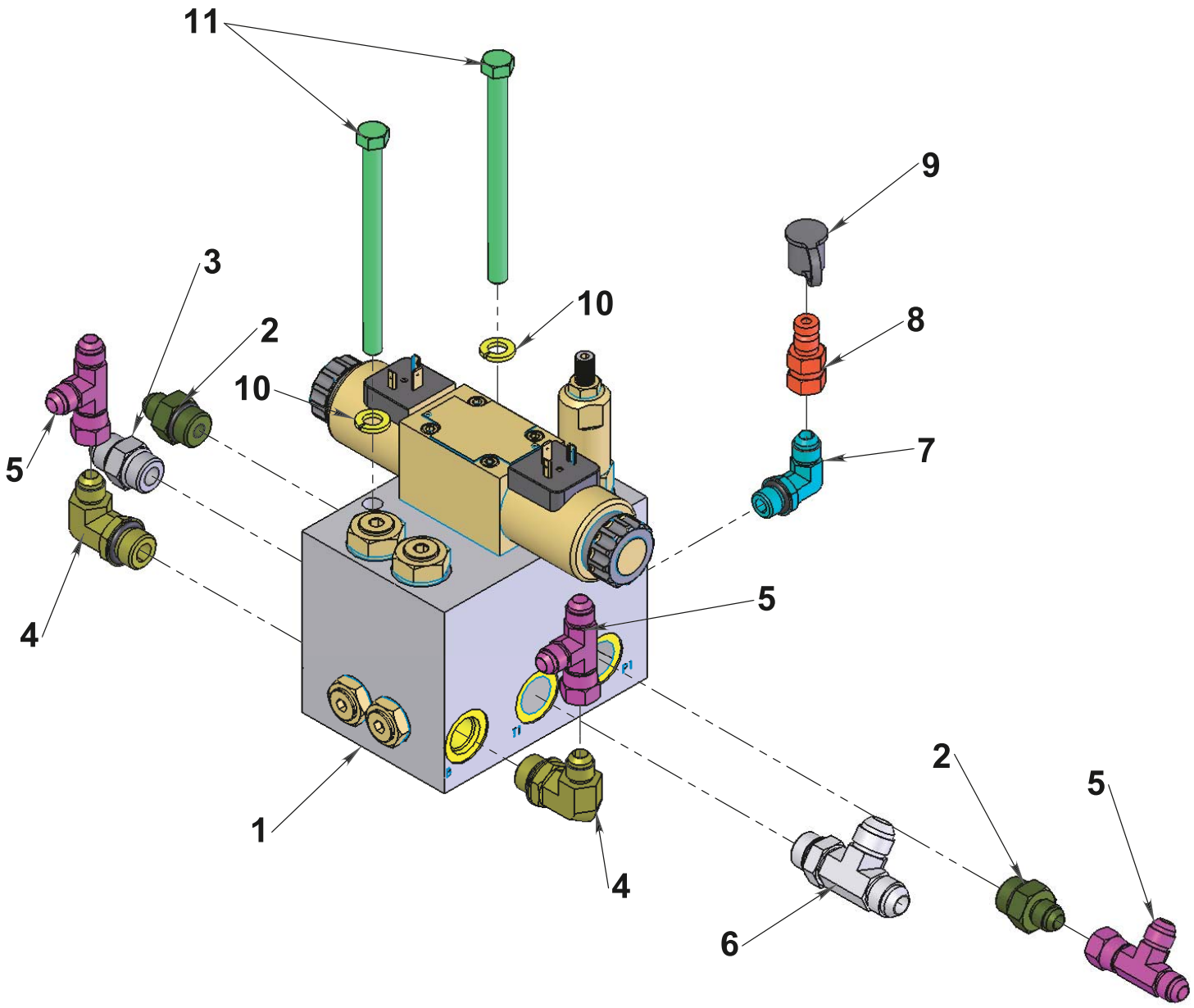
C-1 RAISE / LOWER HYDRAULICS
(214929-01)



C-1 RAISE / LOWER HYDRAULICS
(214929-01)

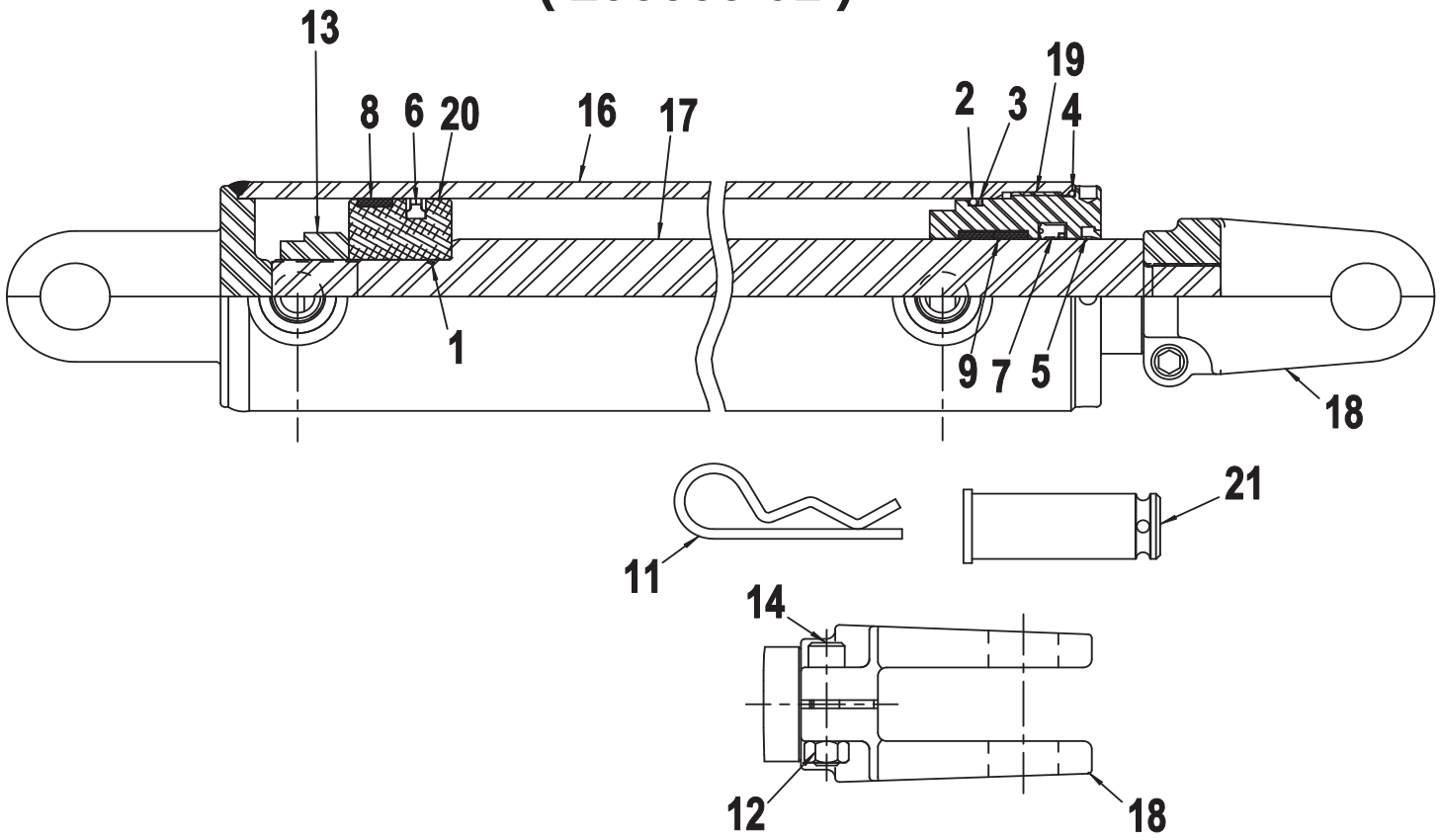
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214885-03	ASSY. - C-1 RAISE / LOWER MANIFOLD	1
2	207380-01	MODIFIED C-1 LIFT CYLINDER	2
3	149428-03	PIN WLDMT. - C-1 LIFT CYL. ROD END	2
4	83475-04	FIT - 6 JIC X 6 JIC BULKHEAD	2
5	83453-04	FIT - 8 JIC X 8 JIC BULKHEAD	2
6	83734-04	FIT - 6 JIC X 6 SAE 90 DEG.	2
7	83735-04	FIT - 6 JIC X 6 SAE STRAIGHT	2
8	83953-04	FIT - 6 JIC SWIVEL 90 DEG.	2
9	83469-04	FIT - 6 JIC X 8 SAE STRAIGHT	1
10	83459-04	FIT - 8 JIC X 8 SAE STRAIGHT	1
11	27D75	PIN - COTTER 1/4 X 2 1/2"	2

ASSEMBLY ~ C1 RAISE/LOWER MANIFOLD (214885-03)



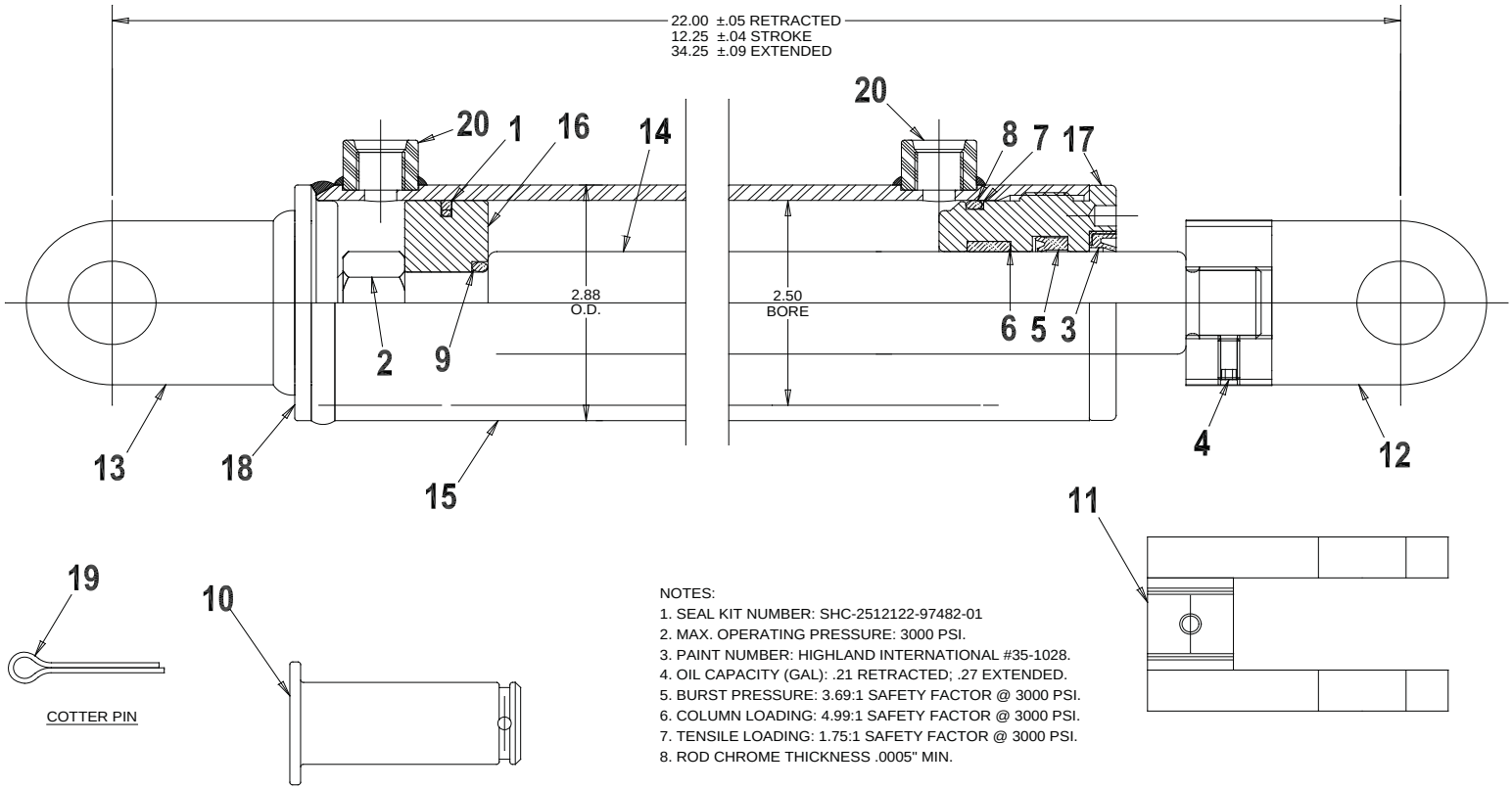
ITEM #	PART #	DESCRIPTION	QTY
1	211537-01	MANIFOLD * C1 RAISE/LOWER	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	2
3	83459-04	FIT ~ CONNECTOR 8 JIC x 8 SAE MALE	1
4	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	2
5	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	3
6	83766-04	FIT * RUN TEE 8 JIC - 8 SAE MALE	1
7	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	1
8	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
9	85949-04	FIT ~ TEST PORT QD CAP 3/8	1
10	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
11	20N62	BOLT * HEX 3/8"-16 X 5"	2

CYLINDER, C-1 HOPPER OPEN
(206666-01)



ITEM #	PART NO.	DESCRIPTION	QTY.
1	206666-01-C5	O-RING	1
2	206666-01-C6	O-RING	1
3	206666-01-C7	BACK-UP	1
4	206666-01-C8	O-RING	1
5	206666-01-C9	WIPER	1
6	206666-01-C10	SEAL	1
7	206666-01-C11	SEAL	1
8	206666-01-C12	WEAR RING	1
9	206666-01-C13	WEAR RING	2
10	206666-01-C1	SEAL KIT	1
11	206666-01-C14	CLIP PIN	2
12	206666-01-C15	LOCK NUT	1
13	206666-01-C16	LOCK NUT	1
14	206666-01-C17	CAPSCREW	1
15	206666-01-C18	PLUG	2
16	206666-01-C19	TUBE ASSY.	1
17	206666-01-C20	ROD	1
18	206666-01-C2	ROD CLEVIS	1
19	206666-01-C22	HEAD	1
20	206666-01-C23	PISTON	1
21	206666-01-C24	CLEVIS PIN	2
22			
23			
24			
25			

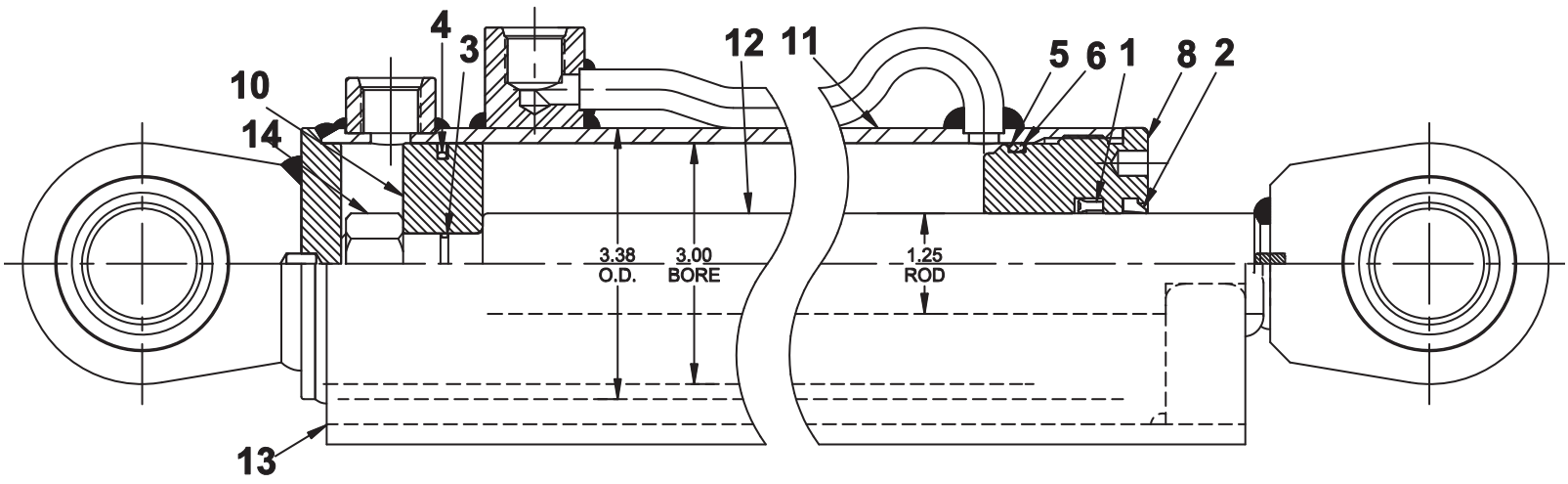
CYLINDER, HOPPER RAISE
(97482-01)

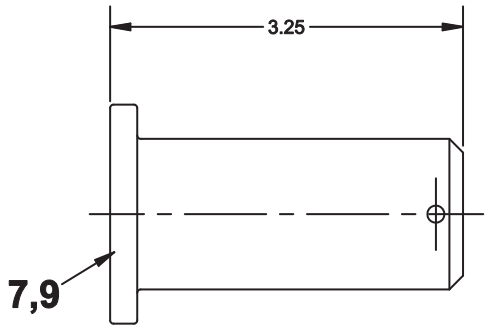


NOTES:
1. SEAL KIT NUMBER: SHC-2512122-97482-01
2. MAX. OPERATING PRESSURE: 3000 PSI.
3. PAINT NUMBER: HIGHLAND INTERNATIONAL #35-1028.
4. OIL CAPACITY (GAL): .21 RETRACTED; .27 EXTENDED.
5. BURST PRESSURE: 3.69:1 SAFETY FACTOR @ 3000 PSI.
6. COLUMN LOADING: 4.99:1 SAFETY FACTOR @ 3000 PSI.
7. TENSILE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

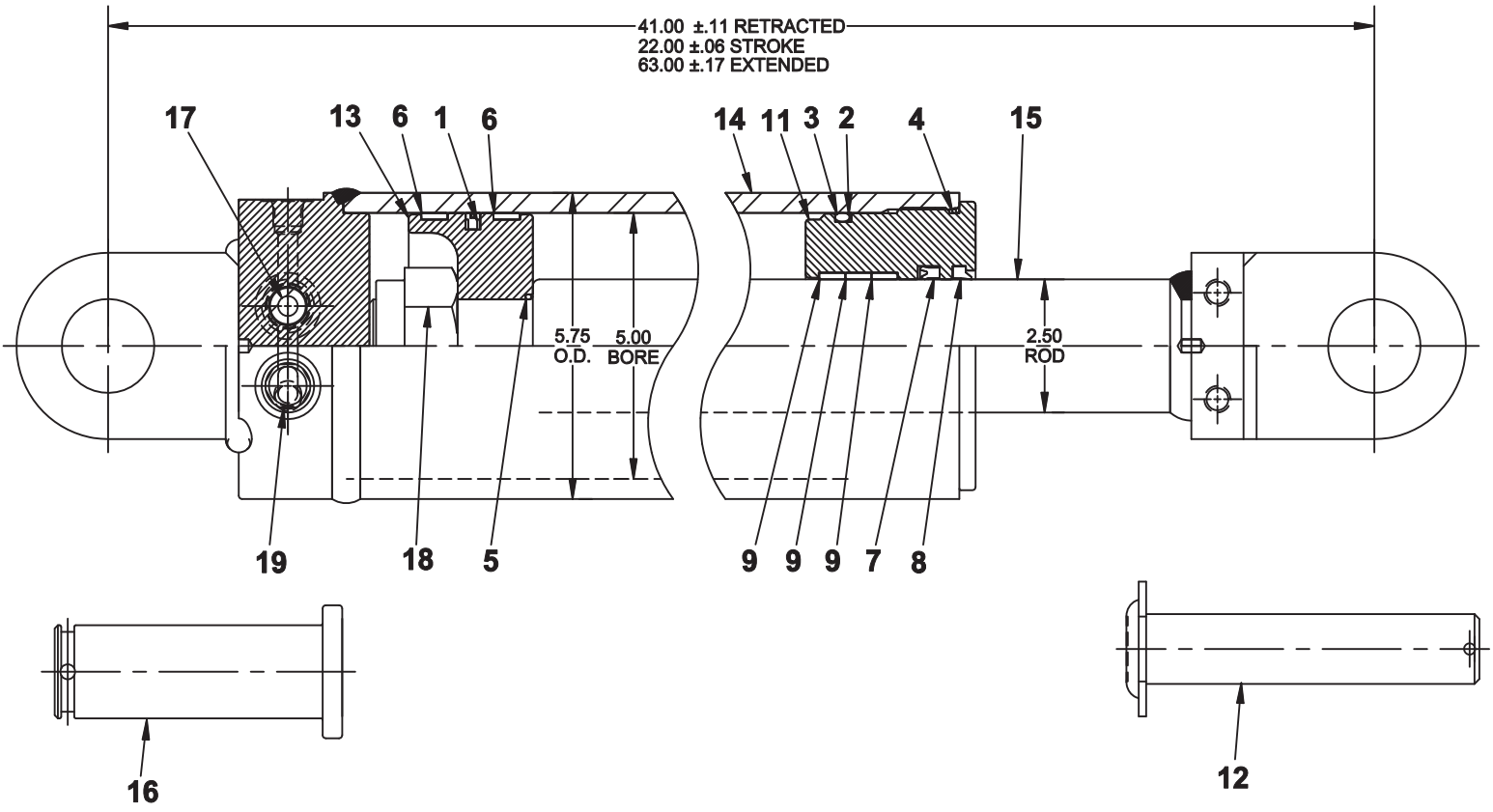
CYLINDER ,C-1 BAFFLE
(215523-01)





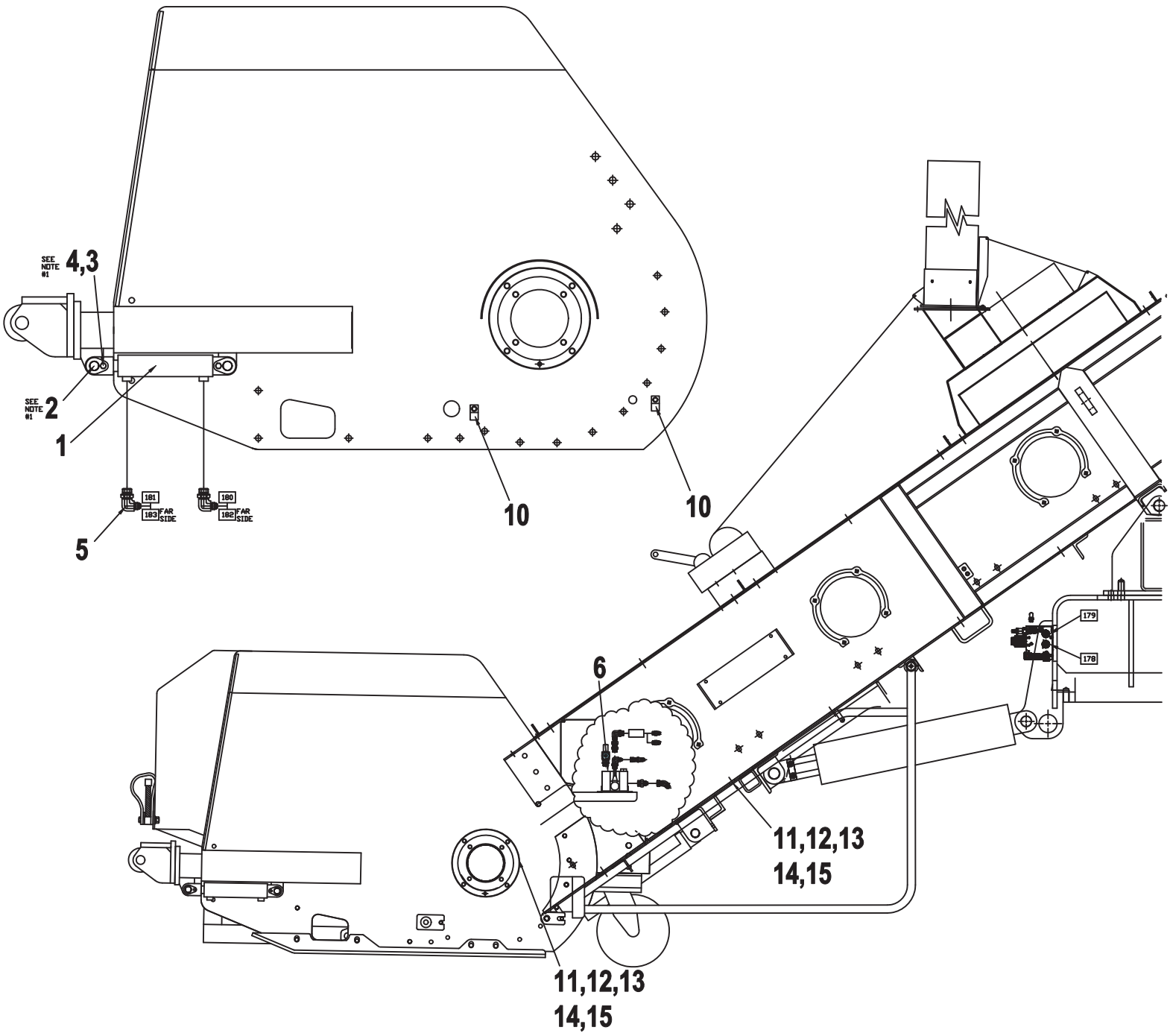
ITEM #	PART NO.	DESCRIPTION	QTY.
1	215523-01-C9	POLY PAK	1
2	215523-01-C10	WIPER	1
3	215523-01-C11	O-RING	1
4	215523-01-C12	PISTON SEAL	1
5	215523-01-C13	O-RING	1
6	215523-01-C14	BACK-UP	1
7	215523-01-C2	COTTER PIN	2
8	215523-01-C3	HEAD	1
9	215523-01-C4	CLEVIS PIN	2
10	215523-01-C5	PISTON	1
11	215523-01-C6	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

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

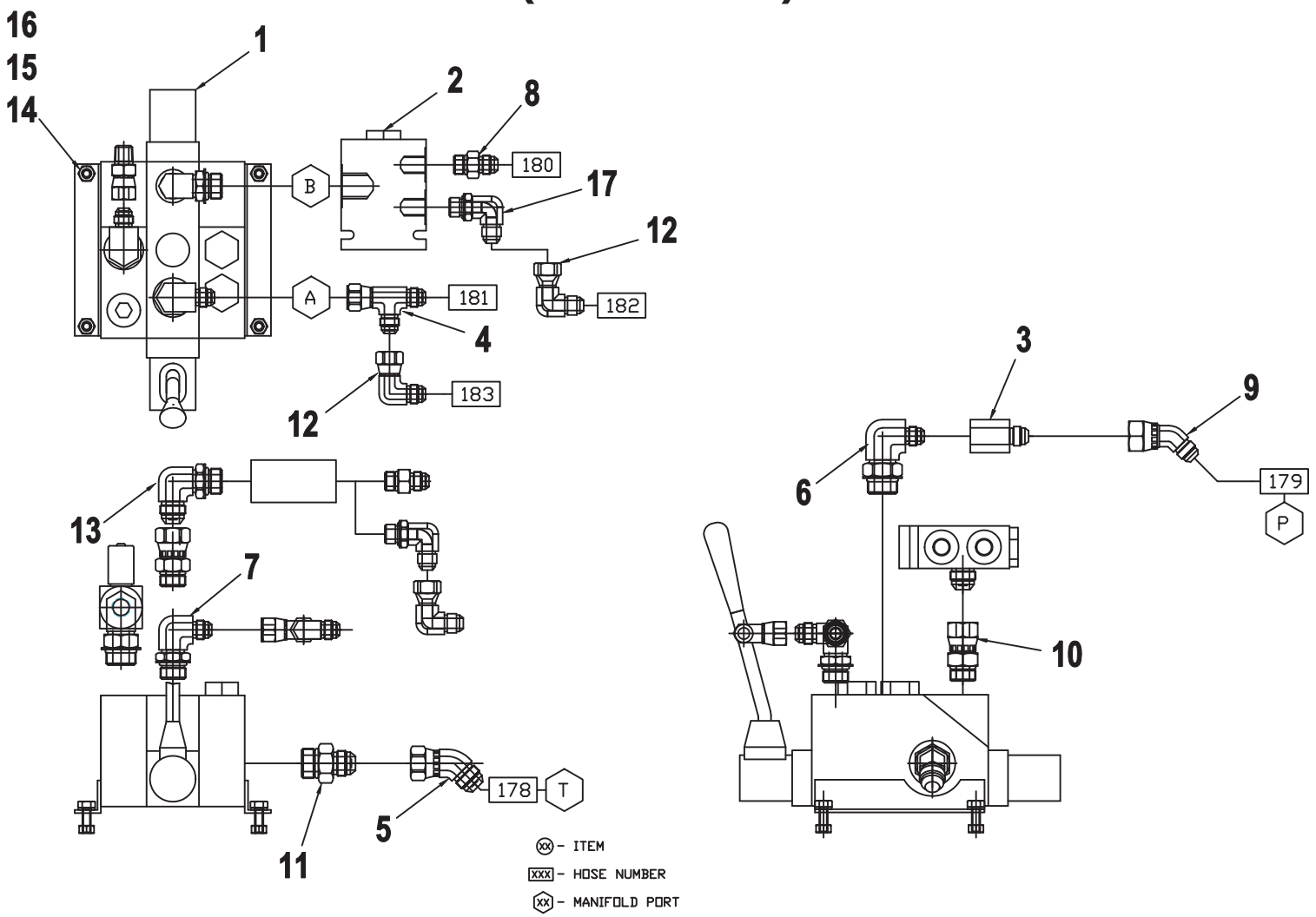
PUSH ROLLER HYDRAULICS
(209080-01)



PUSH ROLLER HYDRAULICS
(209080-01)

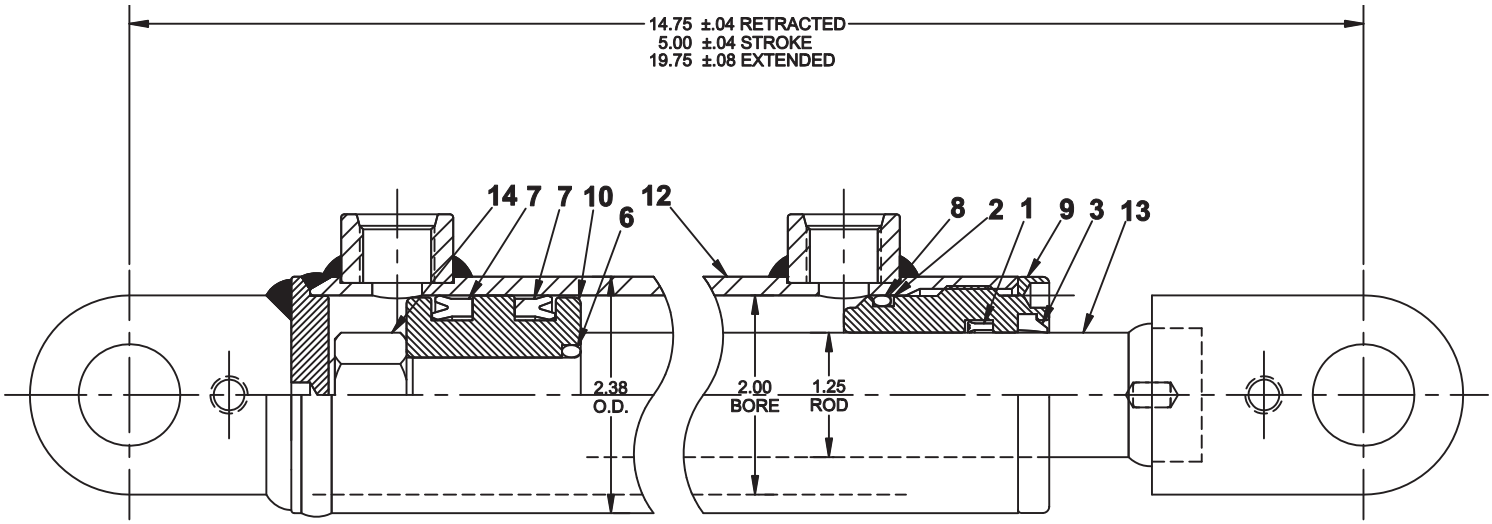
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	147955-03	CYLINDER - 2.00 BORE X 5.00 STROKE	2
2		SUPPLIED WITH CYLINDER	
3		SUPPLIED WITH CYLINDER	
4		SUPPLIED WITH CYLINDER	
5	84426-04	FITTING - 8 SAE X 6 JIC 90 M. ELBOW	4
6	209079-02	PUSH ROLLER MANIFOLD SUB-ASSY.	1
7			
8			
9			
10	99965	CLAMP - 2" RUBBERIZED TUBE	4
11	147412-04	CLAMPS - 1 9/16" HOSE X 3/8" BOLT	5
12	89773	BOLT, HEX 1/4 - 20 UNC X 1"	5
13	84444	FLAT WASHER 1/4" STEEL	10
14	83065	LOCKWASHER 1/4" ID NOM. SPRING STEEL	5
15	89772	NUT, HEX 3/8 - 16 UNC	5

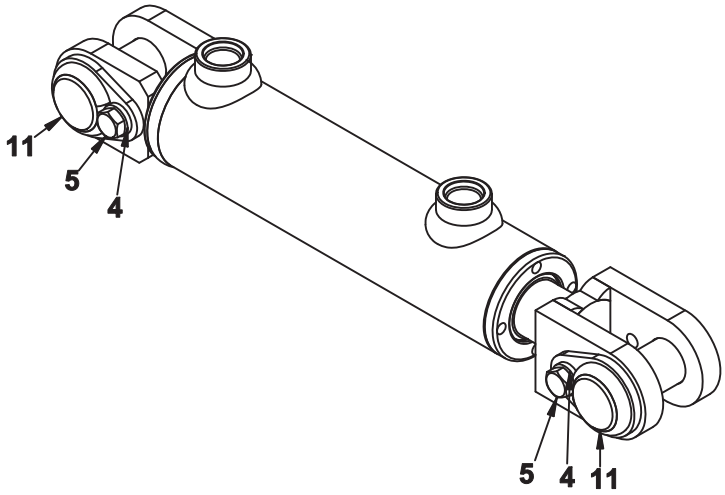
PUSH ROLLER MANIFOLD
(209079-02)



REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	137458-04	VALVE - V10 MANUAL DIR. CONTROL	1
2	200791-03	VALVE - FLOW DIVIDER 50/50 SPLIT, 12 GPM	1
3	135775-04	ORIFICE - 6 JIC M X 6 JIC FM (.063)	1
4	84636-04	SWIVEL RUN TEE - 6 JIC	1
5	85218-04	FIT - ELBOW 8 JIC M - 8 FM 45 DEG. SW	1
6	92987	FIT - ELBOW 90 DEG. - 10 SAE X 6 JIC	1
7	84426-04	FIT - ELBOW 90 DEG. - 8 SAE X 6 JIC	1
8	83735-04	FIT - 6 SAE X 6 JIC STRAIGHT	1
9	90768-04	FIT - 6 JIC M X 6 JIC FM 45 DEG. SW ELBOW	1
10	122168	FIT - CONN 8 SAE - 8 JIC SW ST	1
11	83704-04	CONNECTOR - 8 JIC - 10 SAE ST	1
12	83953-04	FIT - 6 JIC M SW 90 DEG.	2
13	83460-04	FIT - 8 JIC M X 8 SAE M 90 DEG.	1
14	89988-04	HEX BOLT - 1/4-20 X 3/4"	4
15	83065	LOCK WASHER - 1/4" SPRING STEEL	4
16	89772	HEX NUT - 1/4-20 GR8	4
17	83734-04	FIT - 6 JIC - 6 SAE 90 DEG.	1

CYLINDER, PUSH ROLLER
(147955-03)

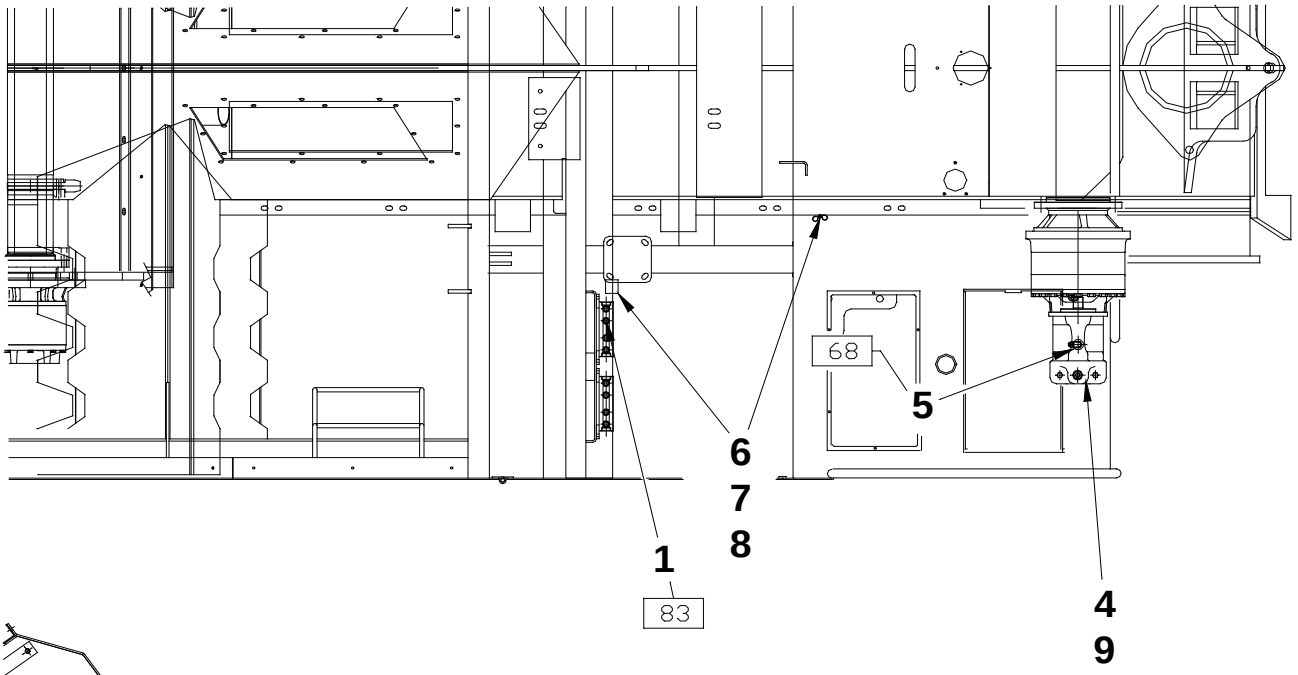


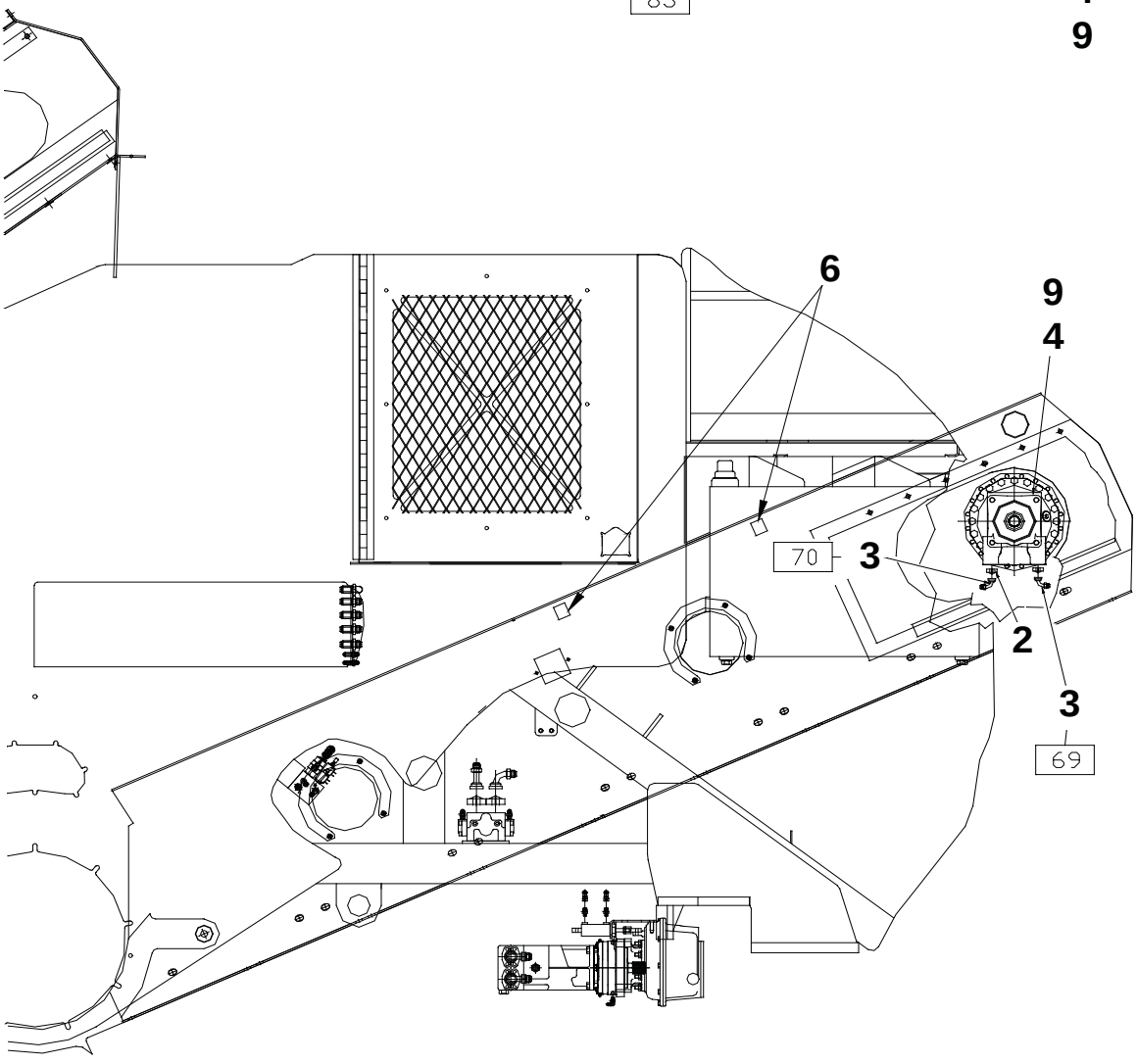


ITEM #	PART NO.	DESCRIPTION	QTY.
1	147955-03-C8	POLY PAK	1
2	147955-03-C9	BACK UP	1
3	147955-03-C10	WIPER	1
4	147955-03-C11	LOCK WASHER	2
5	147955-03-C12	HEX BOLT	2
6	147955-03-C13	O-RING	1
7	147955-03-C14	U-CUP	2
8	147955-03-C15	O-RING	1
9	147955-03-C2	HEAD	1
10	147955-03-C3	PISTON	1
11	147955-03-C4	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	

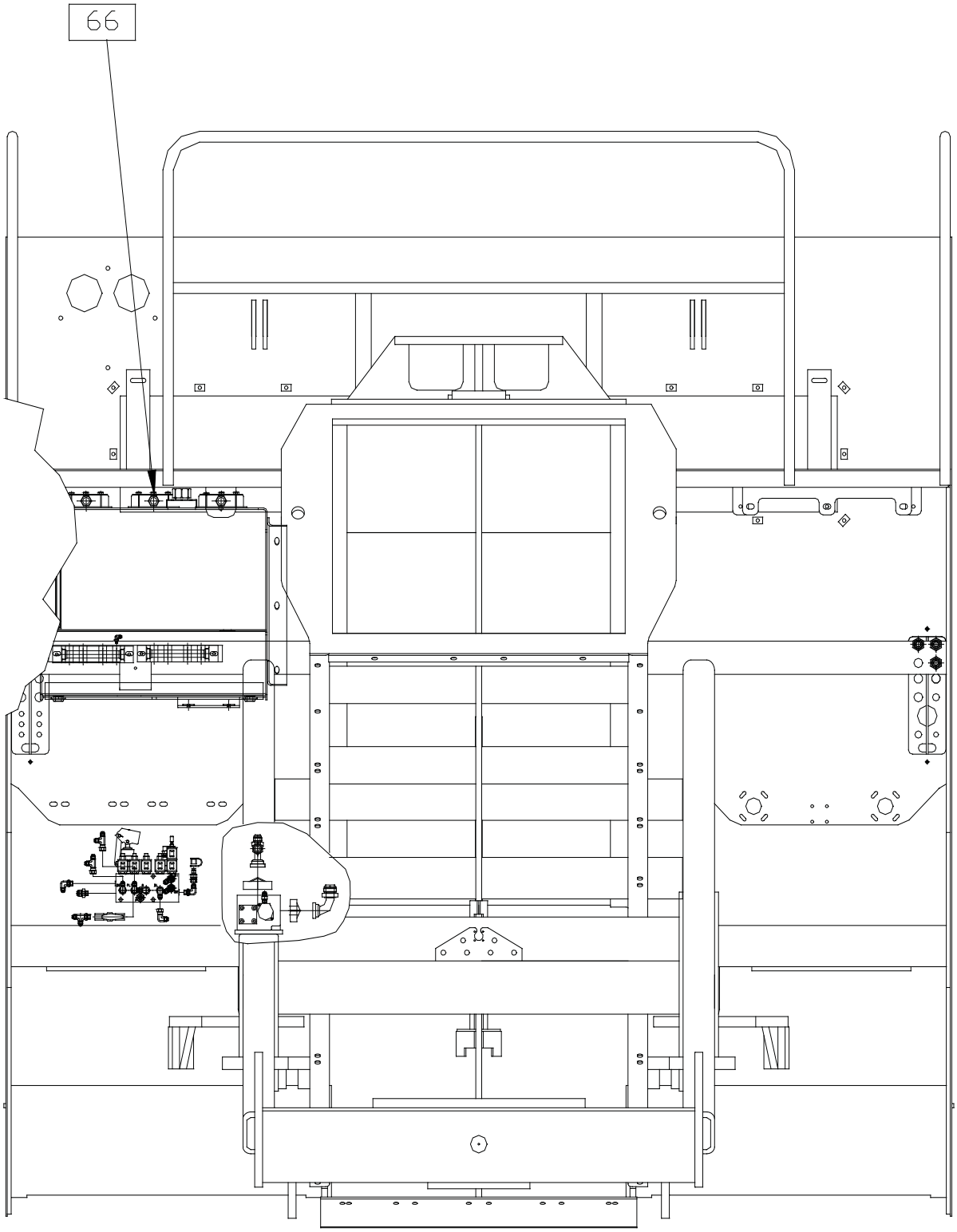
C-2 DRIVE HYDRAULICS
(149543-01)

NEXT PAGE





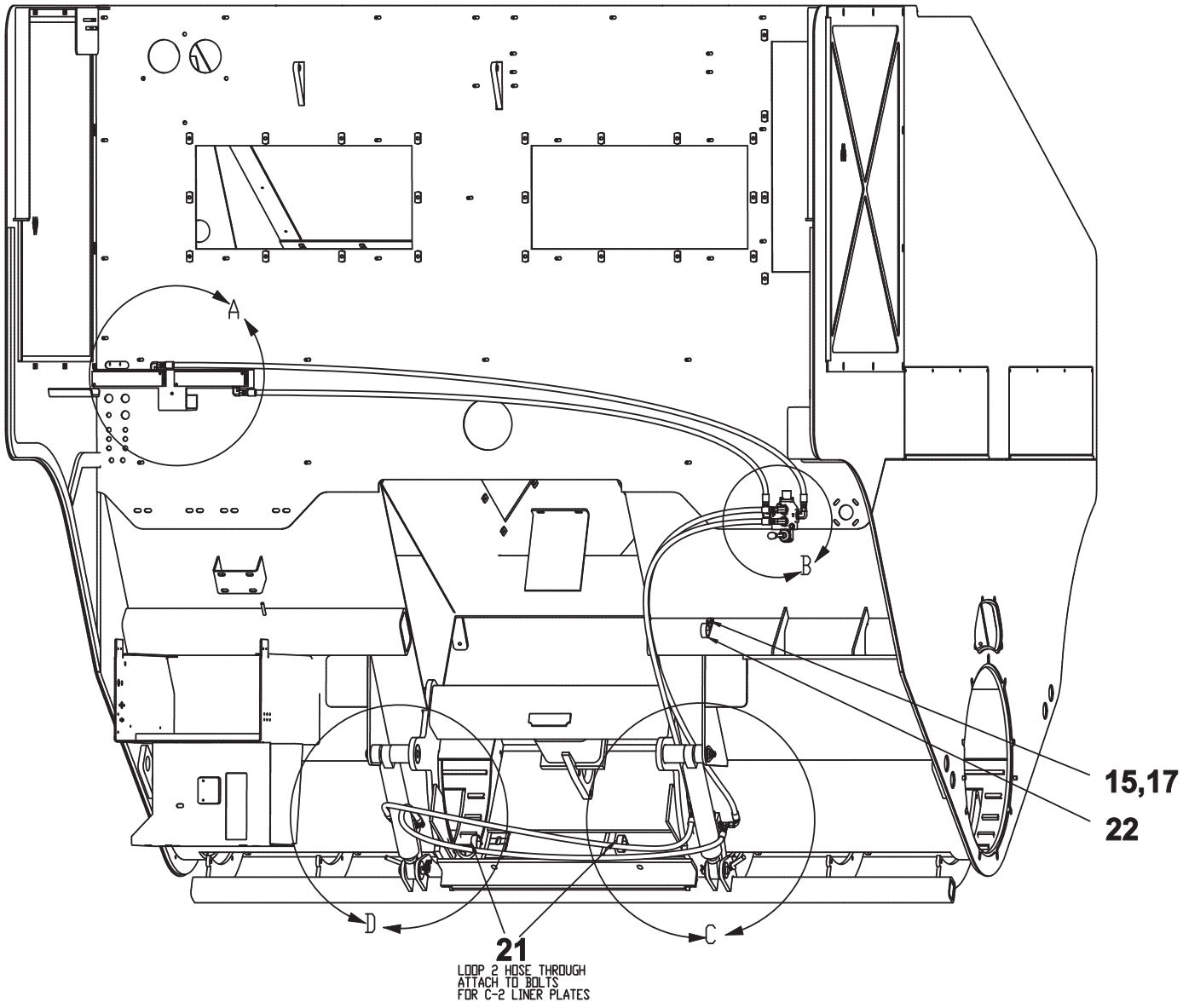
C-2 DRIVE HYDRAULICS
(149543-01)

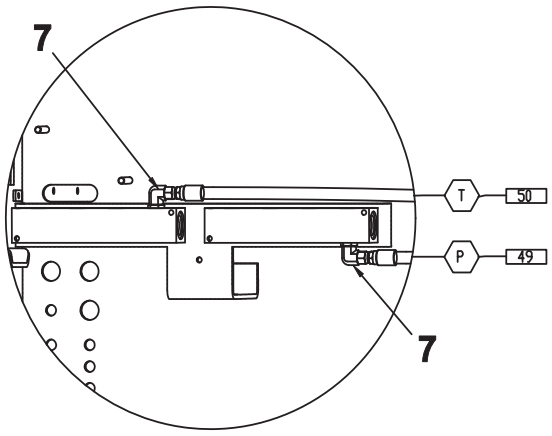


C-2 DRIVE HYDRAULICS
(149543-01)

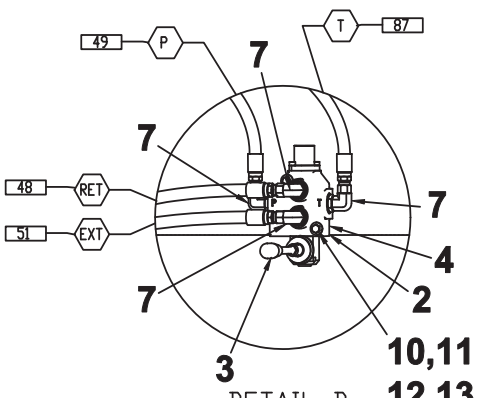
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1			
2	96765	20 FLANGE KIT - CODE 62	2
3	99945	20 FLANGE 45 DEG. X 20 JIC - CODE 62	2
4	149224-04	MOTOR - 130 CC ORIFICE LOOP FLUSH	1
5	85875-04	ELBOW 90 DEG. - 16 SAE MALE X 12 JIC MALE	1
6	99965	CLAMP - 2" RUBBERIZED TUBE	1
7	83055	HEX NUT - 3/8-16 UNC GR8	1
8	85148	LOCK WASHER - 3/8" ID NOM. SPRING STEEL	1
9	28Y06C4	GASKET - AUSCO BRAKE	1

C-2 CLEAN-OUT DOOR HYDRAULICS
(226792-01)



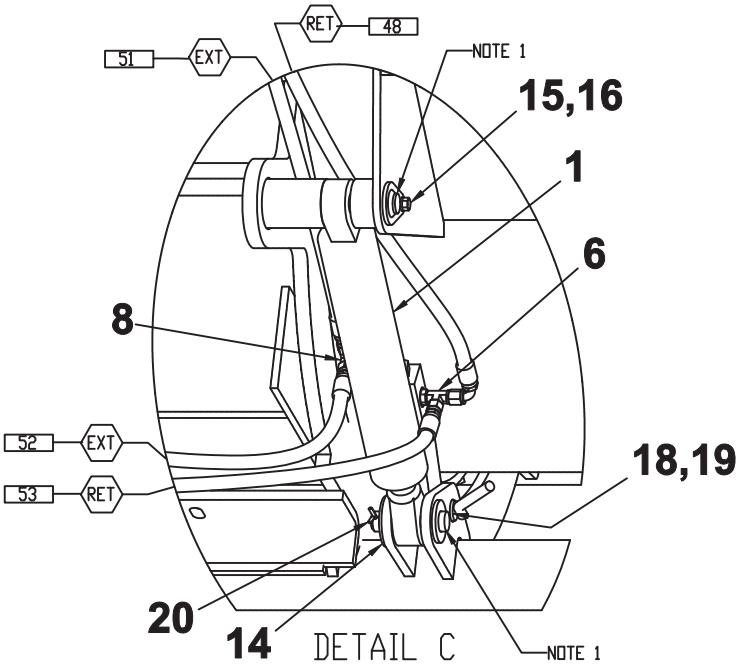


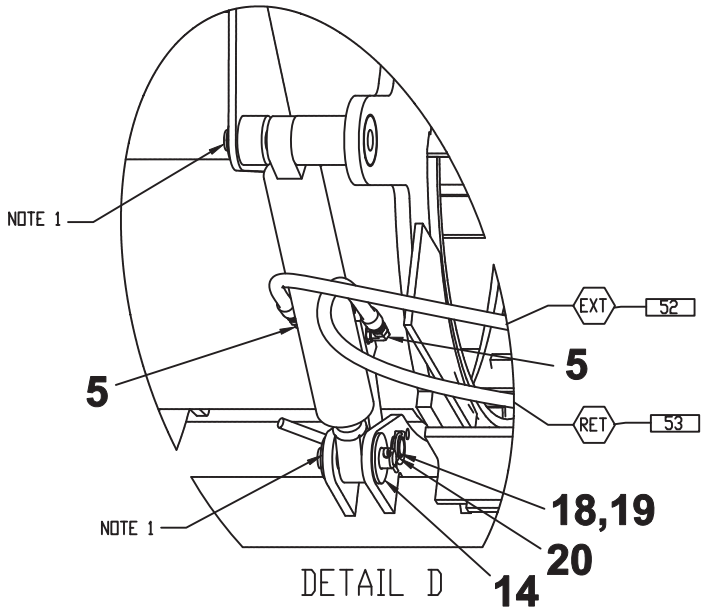
DETAIL A



DETAIL B

C-2 CLEAN-OUT DOOR HYDRAULICS
(226792-01)

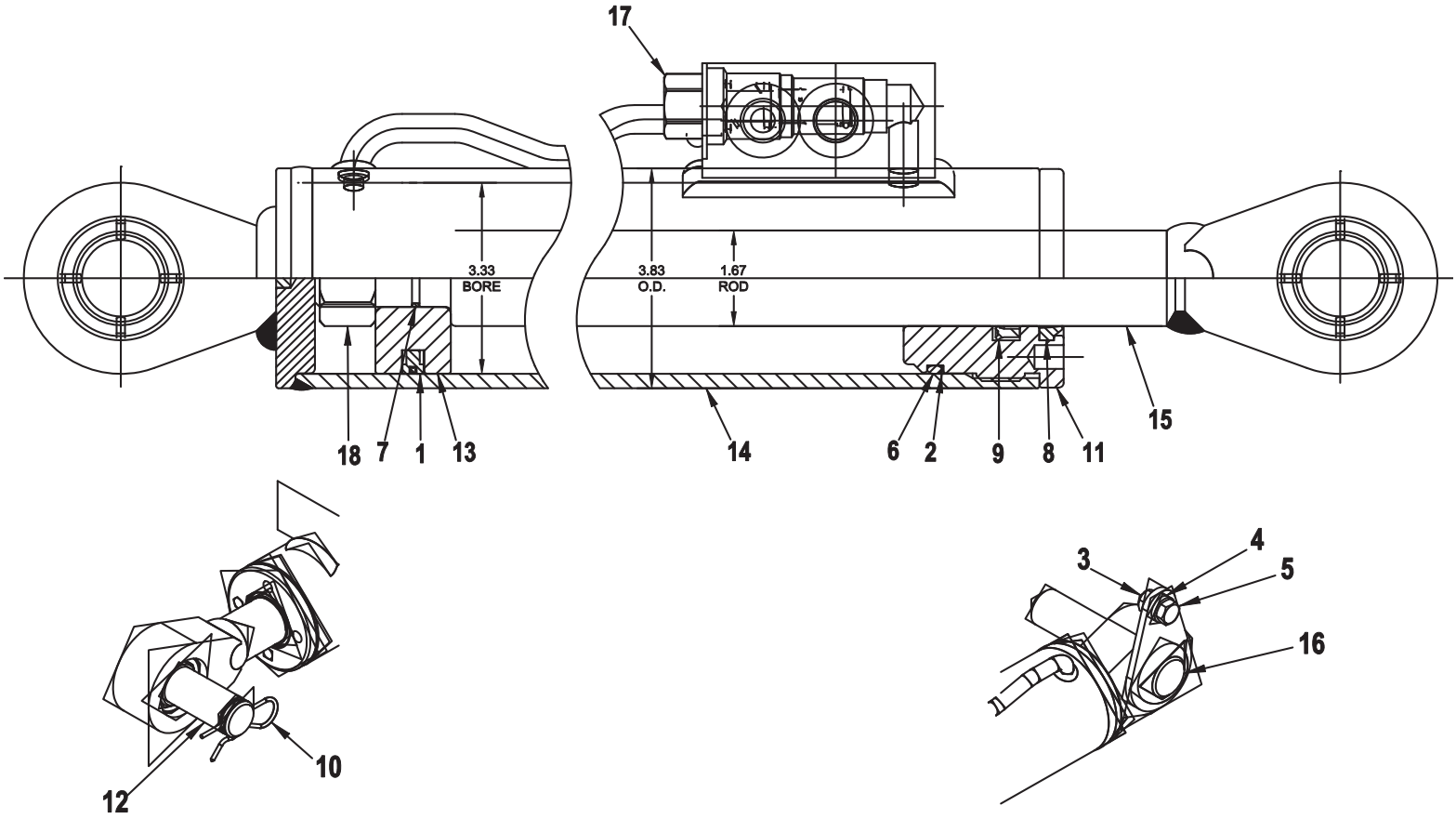




NOTE 1: PINS SUPPLIED WITH CYLINDERS

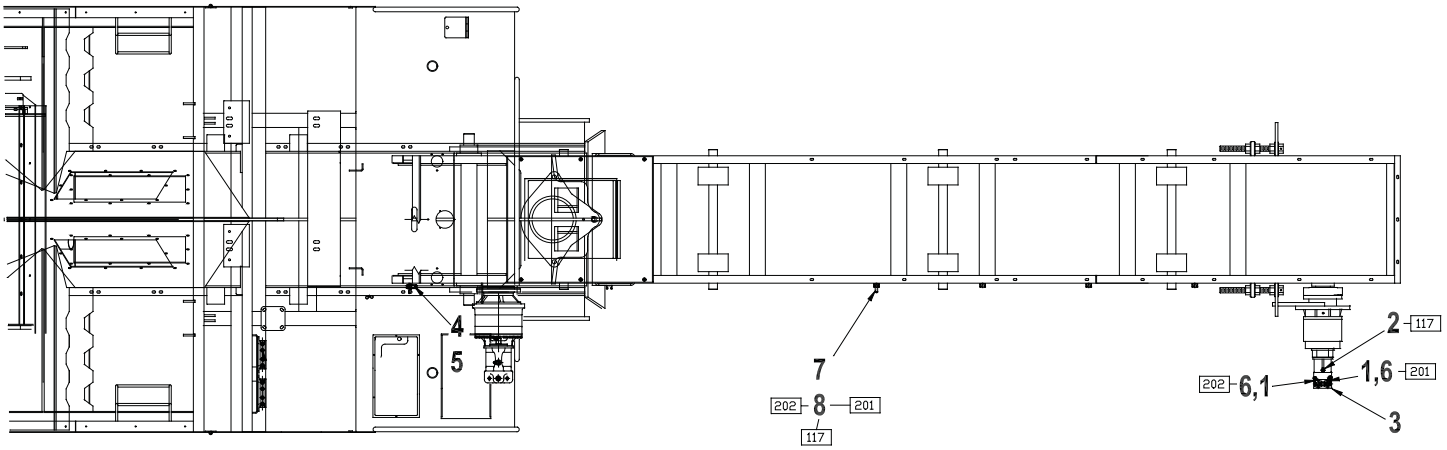
ITEM #	PART NO.	DESCRIPTION	QTY.
1	225738-01	CYL - 2 /12" BORE X 11" STROKE	2
2	226301-04	VALVE - MANUAL 4 WAY MOTOR SPOOL	1
3	225060-03-C1	CLOSED CENTER - 2 WAY LEVER VALVE HANDLE	1
4	226405-03	MOUNT - C2 CLEAN OUT DOOR VALVE	1
5	83734-04	FIT - ELBOW 90 DEG. M W/ NUT, WASHER, O-RING 6 JIC - 6 SAE	2
6	91665-04	FIT - RUN TEE 6 JIC M - 6 SAE M	1
7	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	6
8	84636-04	FIT - SWIVEL RUN TEE 6 JIC	1
9	84779	CSK BOLT - 1/4-20 X 1"	1
10	84444	FLAT WASHER - 1/4" STEEL	5
11	83065	LOCK WASHER - 1/4" SPRING STEEL	3
12	89772	HEX NUT - 1/4-20 GR8	3
13	85563-04	HEX BOLT - 1/4-20 X 2 1/2"	2
14	83376-04	FLAT WASHER - 1" STEEL	2
15	83056	LOCK WASHER - 3/8" SPRING STEEL	3
16	84332	HEX BOLT - 3/8-16 X 1"	2
17	12Y31	HEX BOLT - 3/8-16 X 5/8"	1
18	121690-03	WLDMT - C2 COD LATCH PIN	2
19	144993-04	PIN - 3/16" LYNCH	2
20	27D66	PIN - COTTER 3/16" X 2"	2
21	99965	CLAMP - 2" RUBBERIZED TUBE	2
22	147412-04	CLAMP - 1 9/16" ID 3/8" BOLT HOLE	1
23			
24			
25			

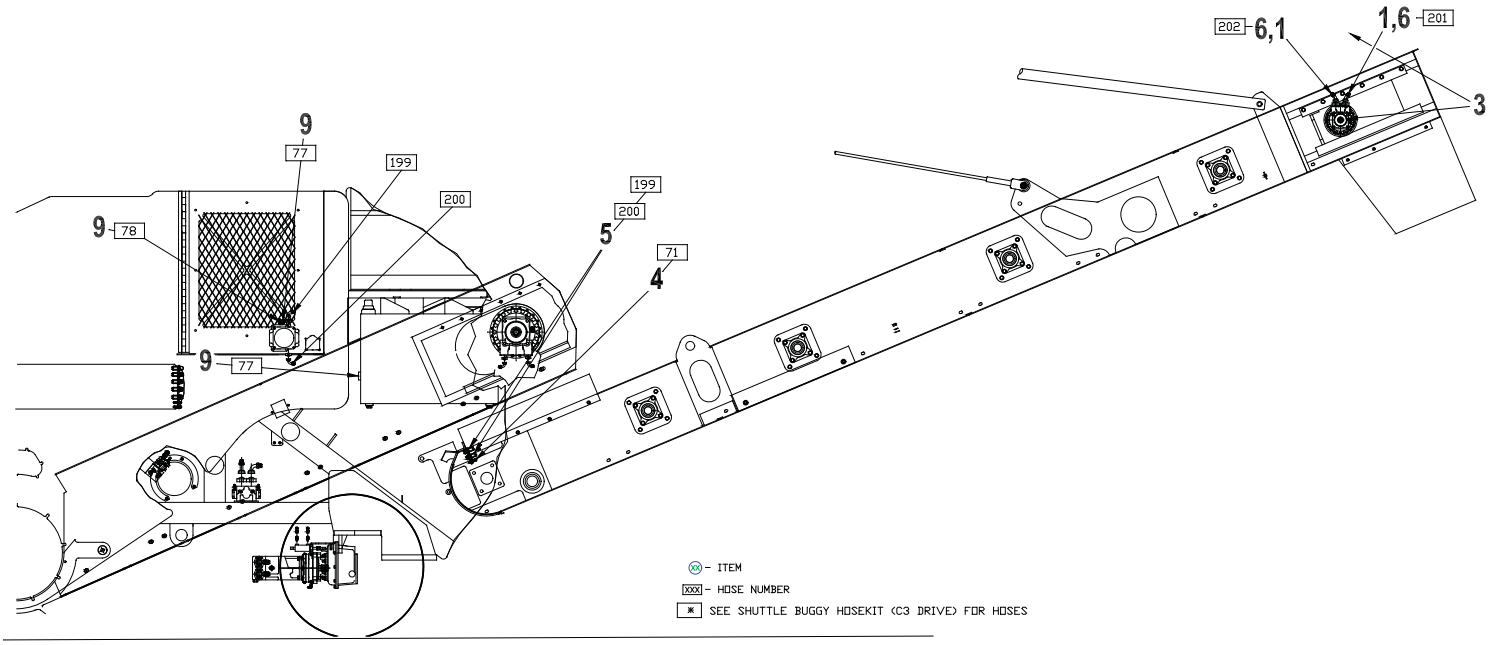
CYLINDER, C-2 CLEAN-OUT
(225738-01)

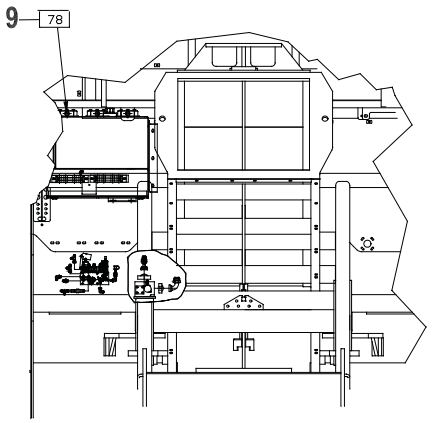


ITEM #	PART NO.	DESCRIPTION	QTY.
1	225738-01-C2	SEAL, PISTON	1
2	225738-01-C3	BACK-UP	1
3	225738-01-C4	HEX NUT	1
4	225738-01-C5	LOCK WASHER	1
5	225738-01-C6	HEX BOLT	1
6	225738-01-C7	O-RING	1
7	225738-01-C8	O-RING	1
8	225738-01-C9	WIPER	1
9	225738-01-C10	POLY PAK	1
10	225738-01-C11	HAIRPIN COTTER	1
11	225738-01-C12	HEAD	1
12	225738-01-C13	CLEVIS PIN	1
13	225738-01-C14	PISTON	1
14	225738-01-C15	TUBE	1
15	225738-01-C16	ROD	1
16	225738-01-C17	CLEVIS PIN	1
17	225738-01-C18	P.O. CHECK VALVE	1
18	225738-01-C19	LOCK NUT	1
19	225738-01-C1	SEAL KIT	1
20			

C-3 DRIVE HYDRAULICS
(145972-01)





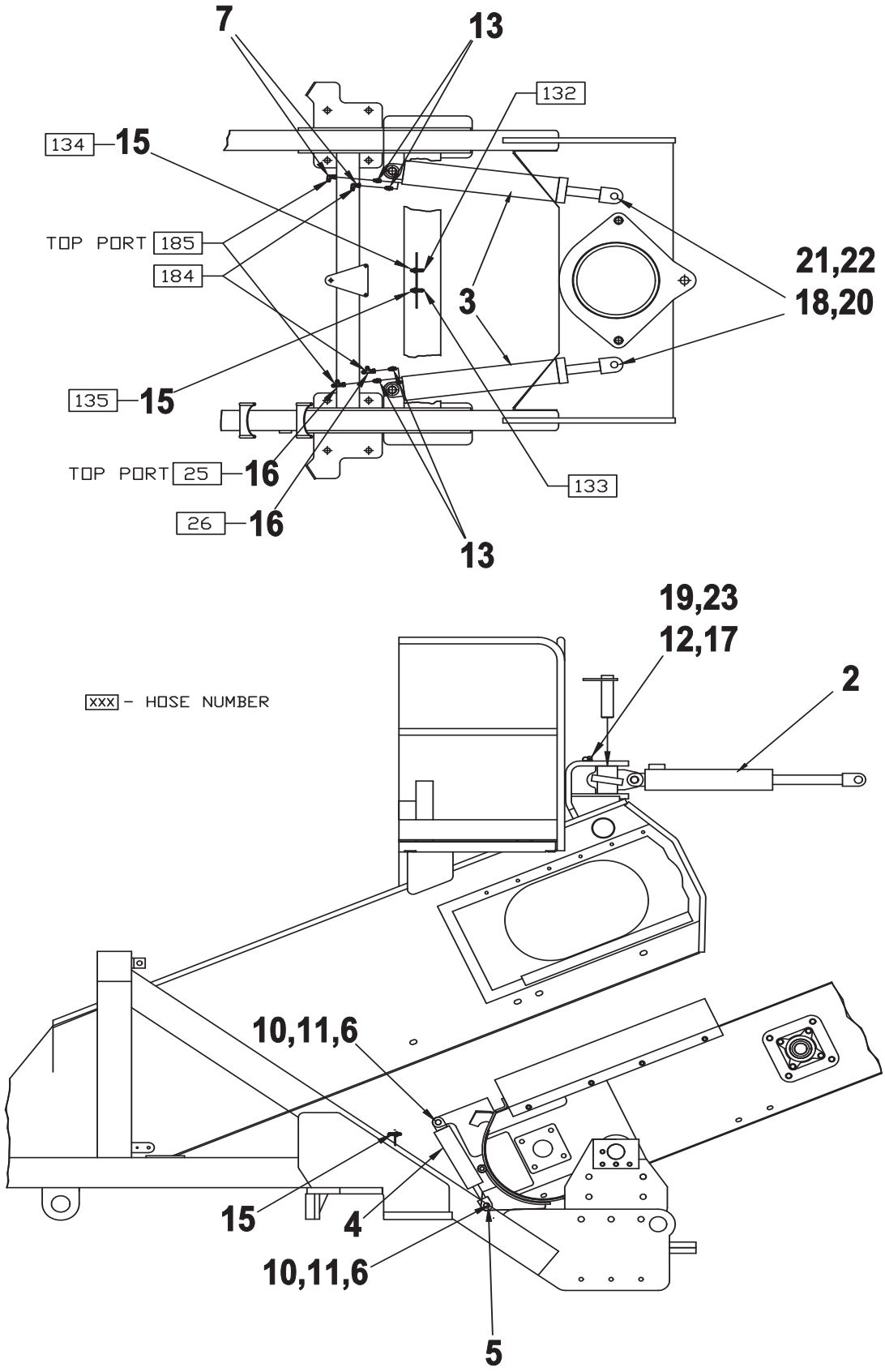


C-3 DRIVE HYDRAULICS
(145972-01)

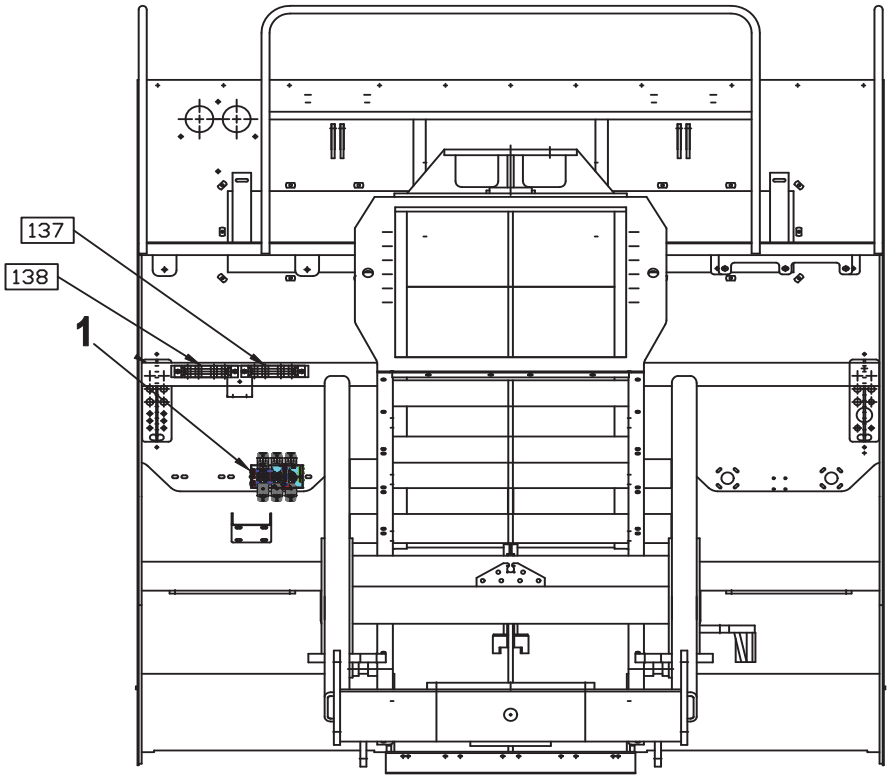
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	121517	# 16 FLANGE 45 X 16 JIC CODE 62	2
2	120439	10 SAE X 12 JIC 45 ELBOW	1
3	91681-04	MOTOR - DRIVE (SAUER-SUNSTRAND)	1
4	83476-04	BULKHEAD UNION 12 JIC	1
5	89604	BULKHEAD UNION 16 JIC	2
6	90729	# 16 FLANGE KIT CODE 62	2
7	145538	CLAMP - 1/2" HOSE	14
8	149015	CLAMP - 1 1/8" HOSE	7
9	147412-04	CLAMP - 1 9/16" I.D. W/ 3/8" BOLT HOLE	2
10	97489	KIT - O-RING 70D	1

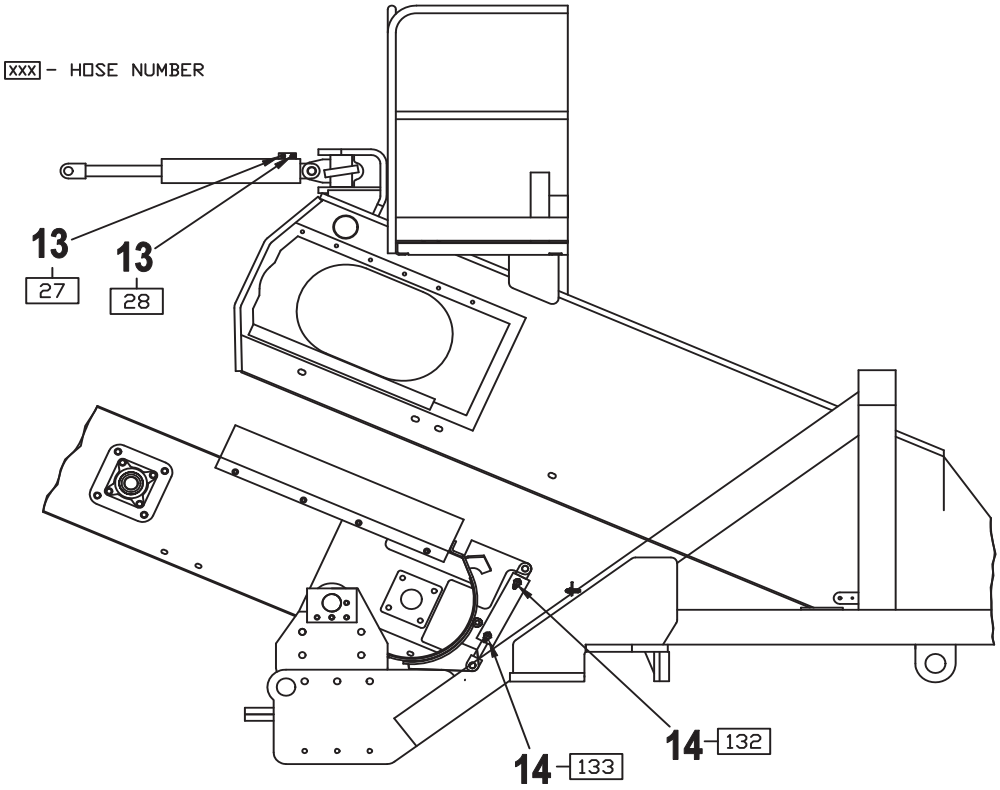
C-3 CONTROL HYDRAULICS
(214925-01)

NEXT PAGE



C-3 CONTROL HYDRAULICS
(214925-01)

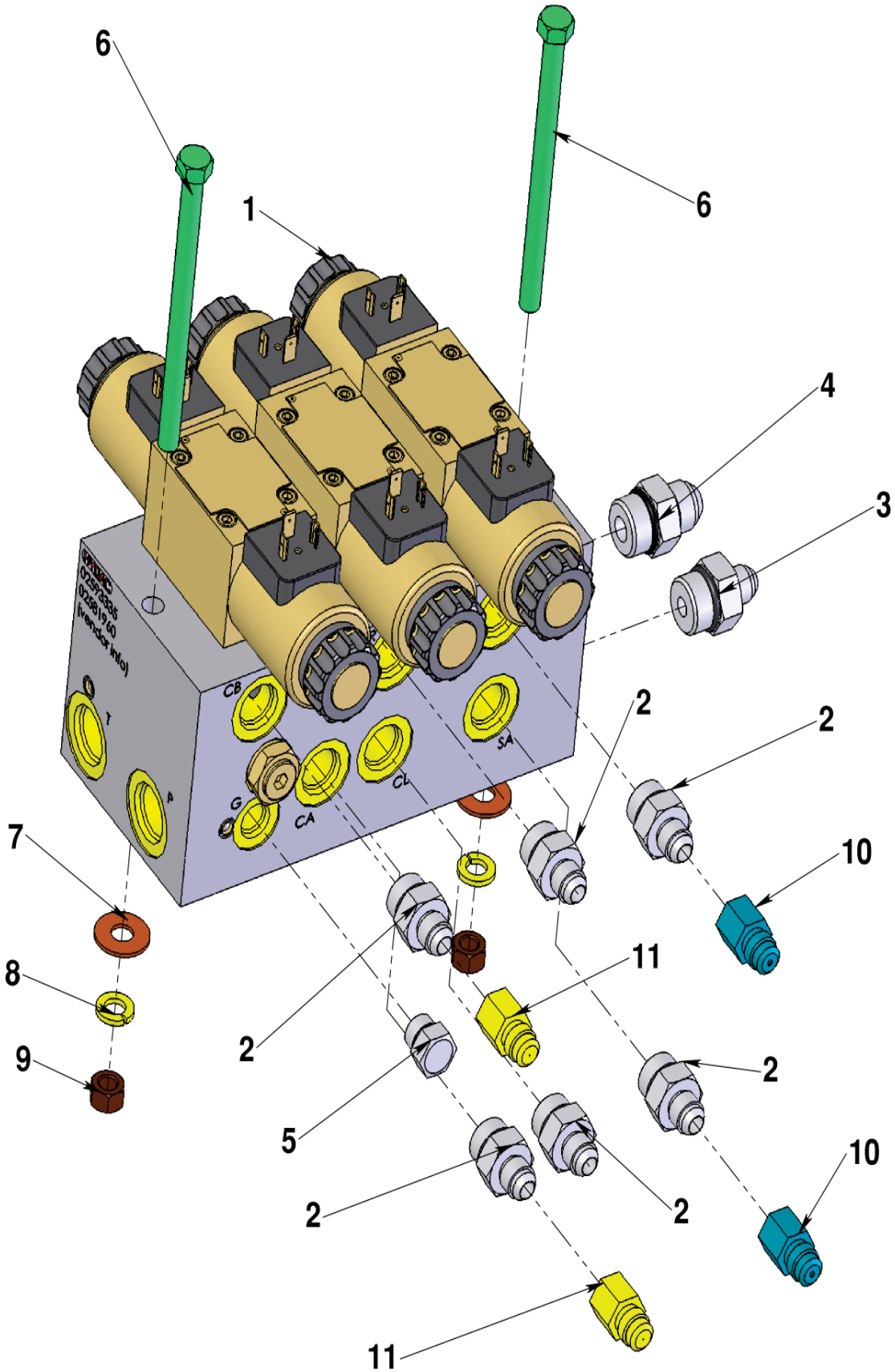




C-3 CONTROL HYDRAULICS
(214925-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214886-02	ASSY. - C-3 CONTROL MANIFOLD	1
2	214518-01	CYLINDER - 5.00 BORE X 26.00 STROKE	1
3	144901-01	CYLINDER - 4.00 BORE X 21.00 STROKE	2
4	144899-01	CYLINDER - 2.00 BORE X 4.50 STROKE	1
5	83439-04	ROD END - FEMALE 1 1/4" (RH THREAD)	1
6	83133	FLAT WASHER - 3/4" STEEL	2
7	83953-04	FIT - FM SWIVEL ELBOW 6 JIC 90 DEG.	2
8			
9			
10	149431-03	PIN WLDMT. - C-3 CLEAN OUT DOOR	2
11	144993-04	PIN - 3/16" LYNCH	2
12	83065	LOCK WASHER - 1/4" SPRING STEEL	1
13	83735-04	FIT - 6 JIC X 6 SAE MALE ADAPTER	6
14	84426-04	ELBOW 90 DEG. - 6 JIC X 8 SAE (MALE)	2
15	83475-04	BULKHEAD UNION ST - 6 JIC	2
16	84636-04	FIT - 6 JIC SW RUN TEE	2
17	20K38	CLAMP -1 1/4" DIA. X 9/16" HOLE	2
18	93121	HEX BOLT - 1/2-13 X 2 1/2" GR8	2
19	89773	HEX BOLT - 1/4-20 X 1" GR8	1
20	83288	HEX NUT - 1/2-13 GR8	2
21	83871-04	FLAT WASHER - 1/2" STEEL	2
22	83317	LOCK WASHER - 1/2" SPRING STEEL	2
23	84444	FLAT WASHER - 1/4" STEEL	1

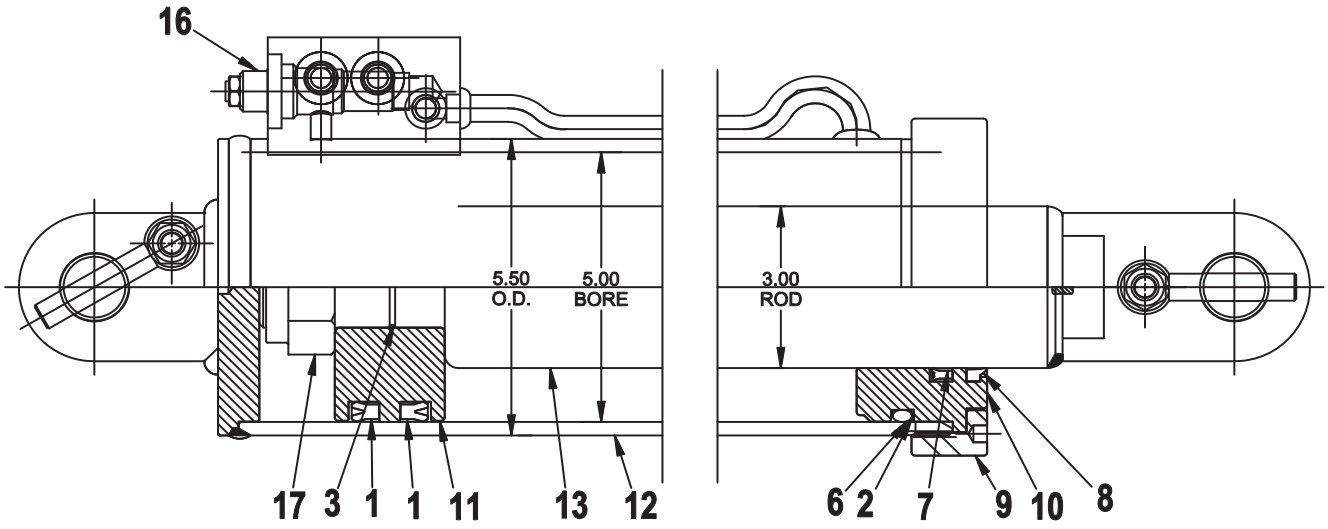
C-3 CONTROL MANIFOLD ASSEMBLY
(214886-02)

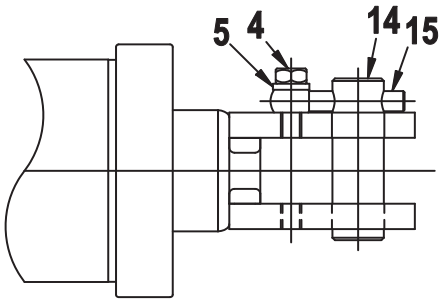


C-3 CONTROL MANIFOLD ASSEMBLY
(214886-02)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211540-01	MANIFOLD * C3 FUNCTIONS	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	6
3	133995-04	FIT * 6 JIC X 10 SAE STR.	1
4	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
5	84635-04	FIT * PLUG 6 SAE	1
6	20N62	BOLT * HEX 3/8"-16 X 5"	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
10	136649-04	FIT ~ RESTRICTOR 3/32 ORIFICE	2
11	135942-04	FIT ~ RESTRICTOR 1/64 ORIFICE	2

CYLINDER, C-3 LIFT
(214518-01)

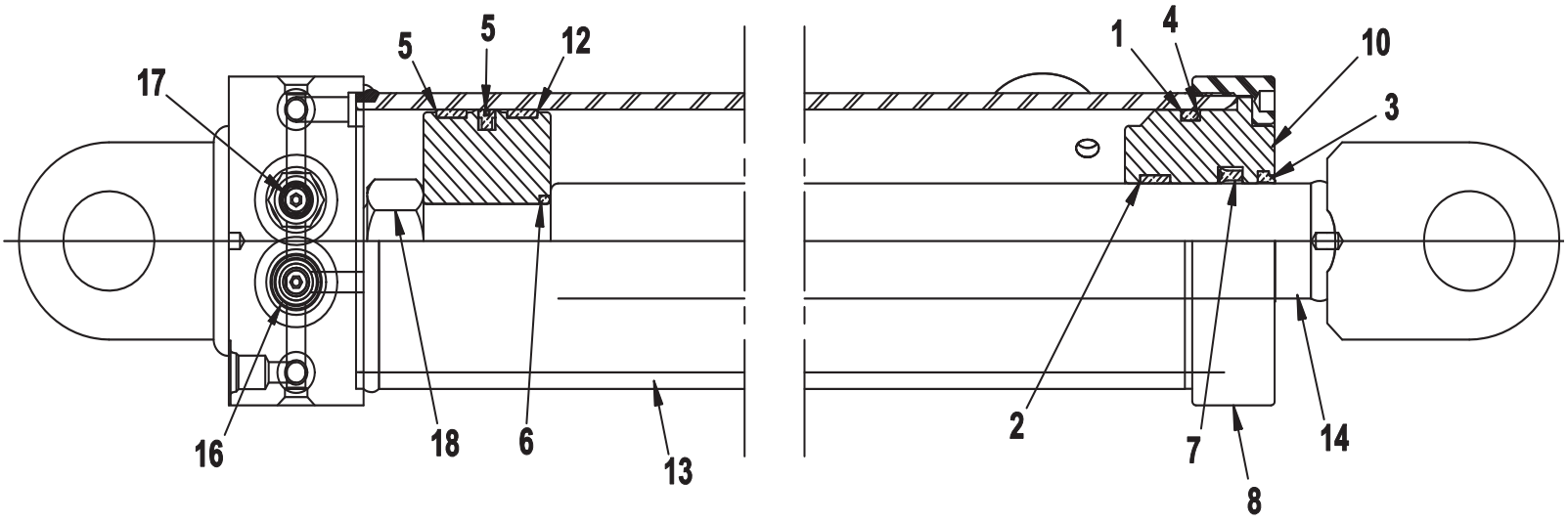




ROD END MOUNT DETAIL

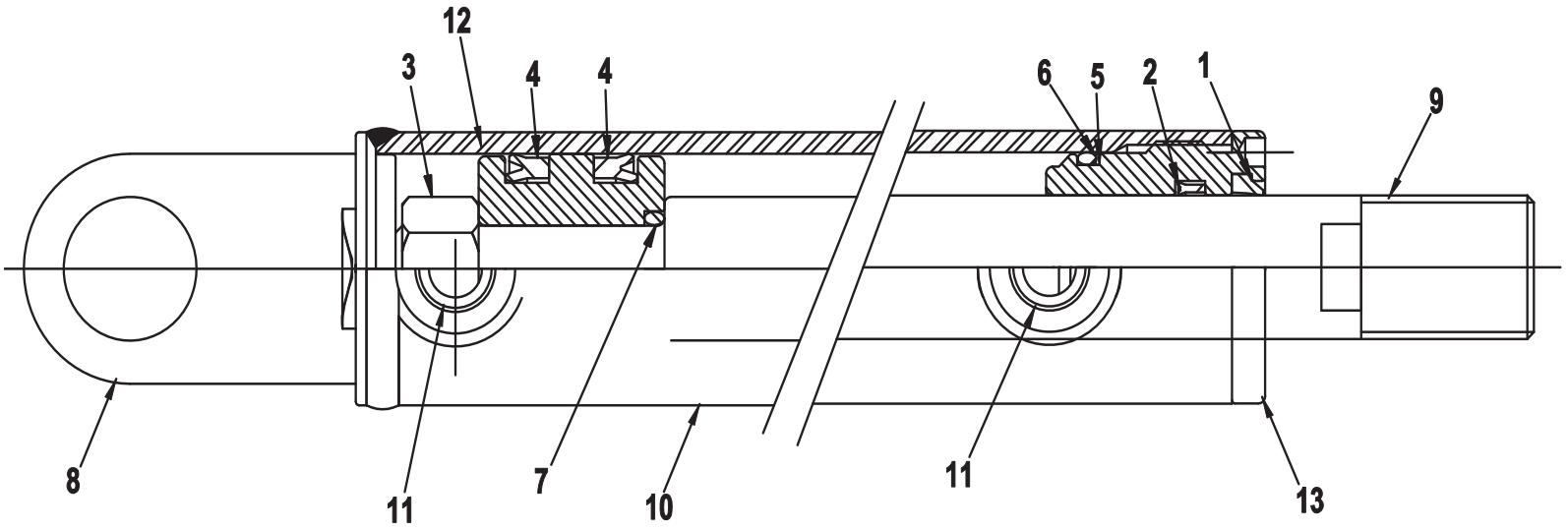
ITEM #	PART NO.	DESCRIPTION	QTY.
1	214518-01-C6	U-CUP	2
2	214518-01-C7	BACK-UP	1
3	214518-01-C8	O-RING	1
4	214518-01-C9	HEX BOLT	2
5	214518-01-C10	LOCK WASHER	2
6	214518-01-C11	O-RING	1
7	214518-01-C12	POLY PACK	1
8	214518-01-C13	WIPER	1
9	89028-04-C8	HEAD CAP	1
10	214518-01-C14	HEAD CAP	1
11	214518-01-C15	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			

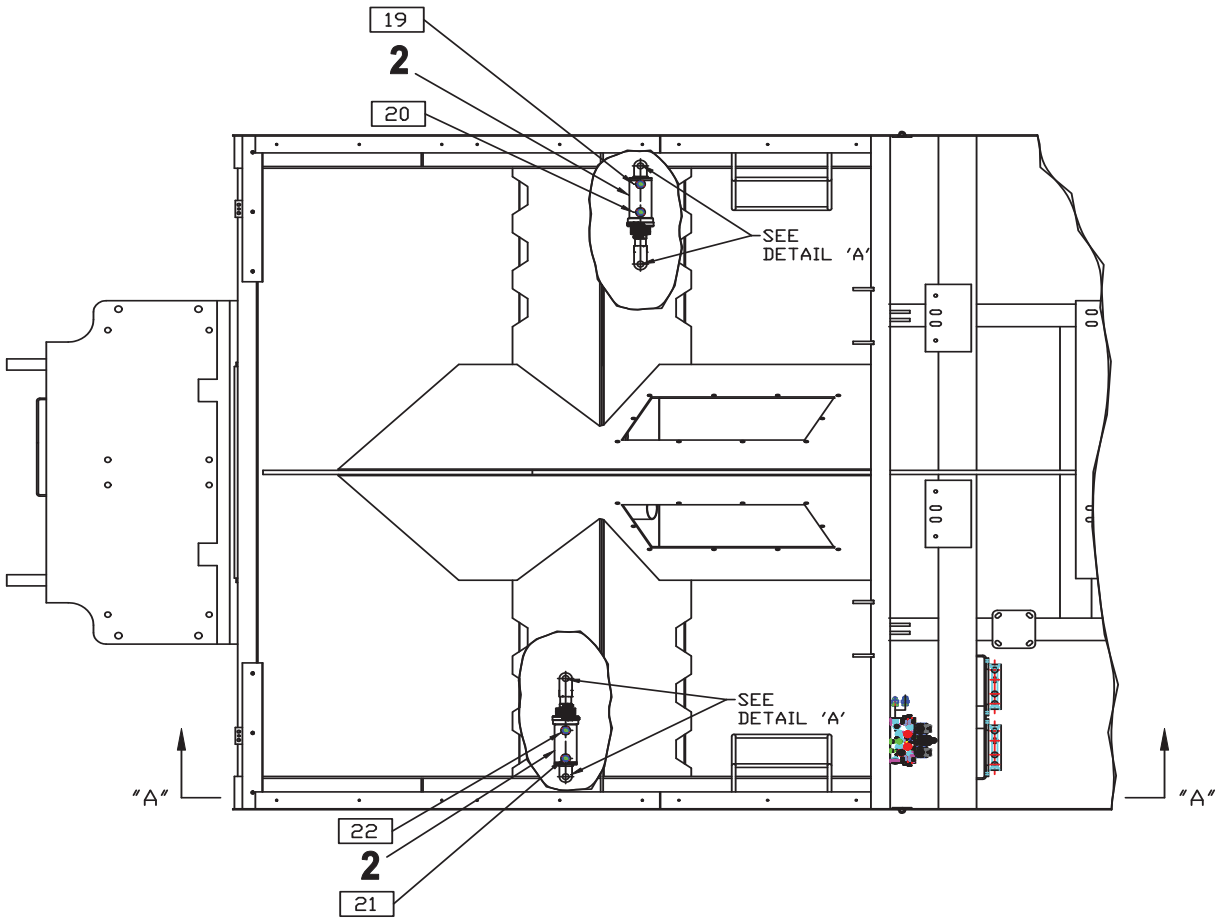
CYLINDER, C-3 CLEAN-OUT
(144899-01)

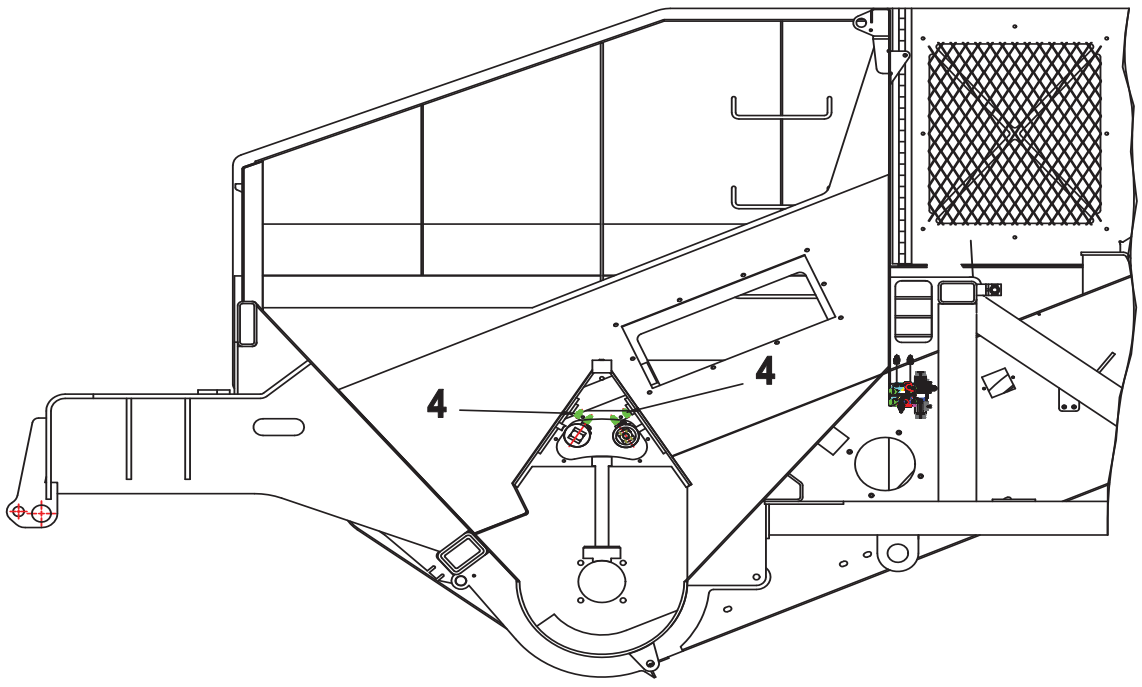


ITEM #	PART NO.	DESCRIPTION	QTY.
1	144899-01-C2	WIPER	1
2	144899-01-C3	POLY PAK	1
3	97482-01-C8	3/4" LOCK NUT	1
4	144899-01-C4	U-CUP	2
5	144899-01-C5	BACK UP	1
6	144899-01-C6	O-RING	1
7	144899-01-C7	O-RING	1
8	144899-01-C8	LUG	2
9	144899-01-C9	ROD	1
10	144899-01-C10	TUBE	1
11	144899-01-C11	PORT 8 SAE	2
12	144899-01-C12	PISTON	1
13	144899-01-C13	HEAD	1
14	144899-01-C14	BASE PLATE	1
15	144899-01-C1	SEAL KIT	

FLOWGATE HYDRAULICS
(214927-01)

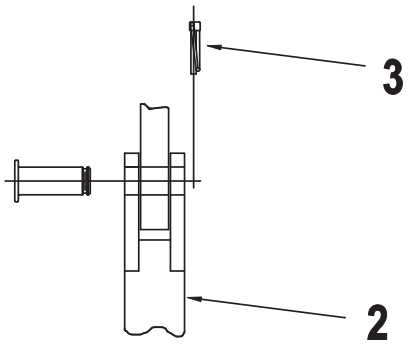
NEXT PAGE



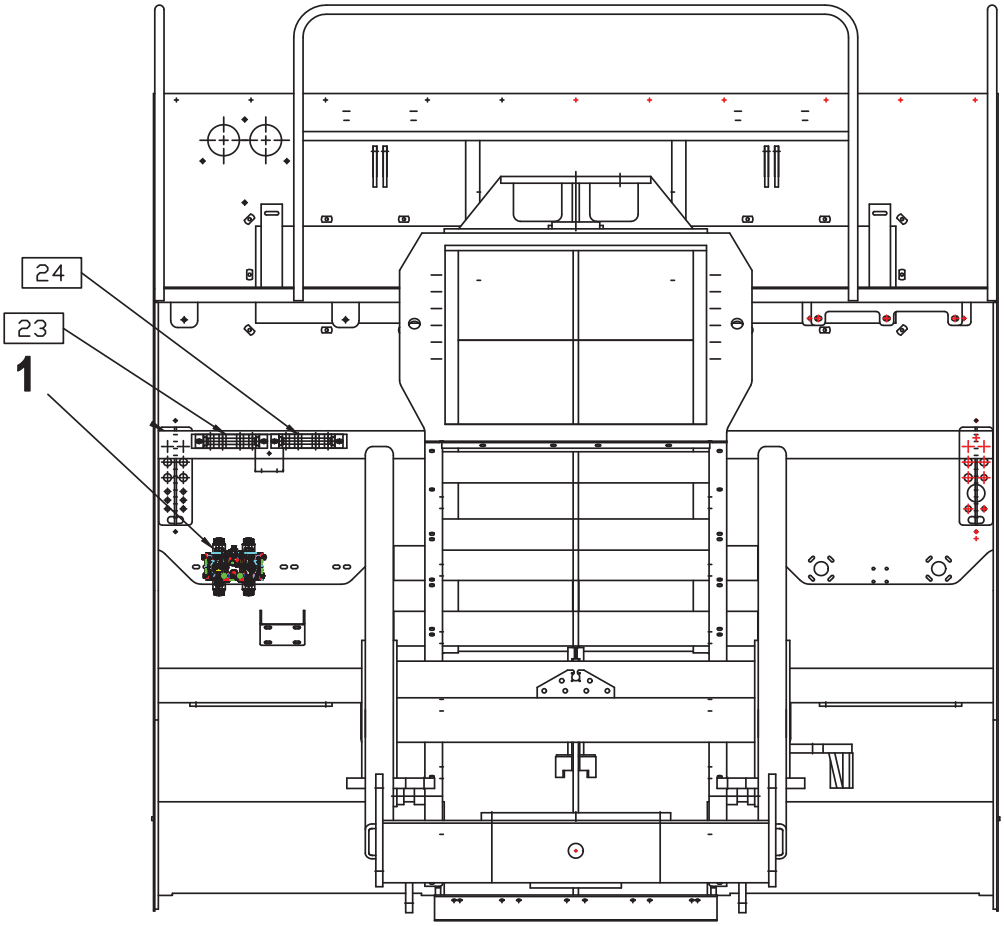


'SECTION A'

FLOWGATE HYDRAULICS
(214927-01)



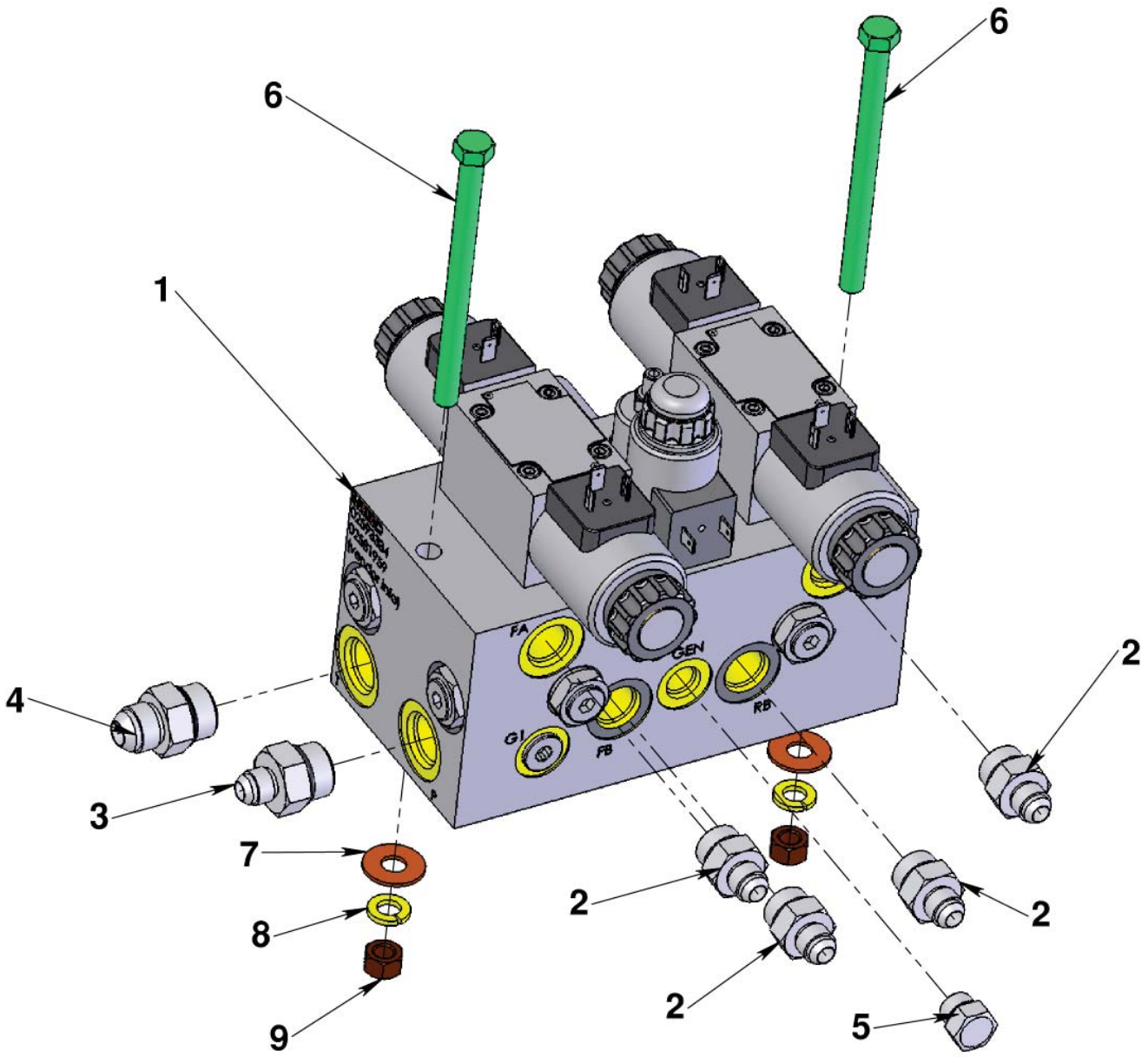
DETAIL 'A'
(4x SCALE)



FLOWGATE HYDRAULICS
(214927-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214889-02	VALVE - FLOW GATE / GENERATOR MANIFOLD	1
2	144894-01	CYLINDER - 3.00 BORE X 5.00 STROKE	2
3	144993-04	3/16" LYNCH PIN	4
4	83469-04	FIT - 8 SAE MALE X 6 JIC	4

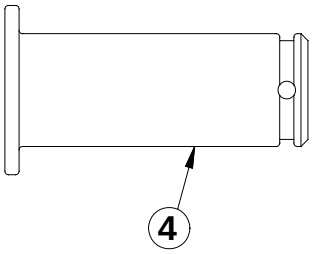
FLOWGATE CONTROL MANIFOLD ASSEMBLY
(214889-02)

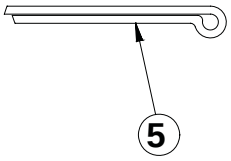


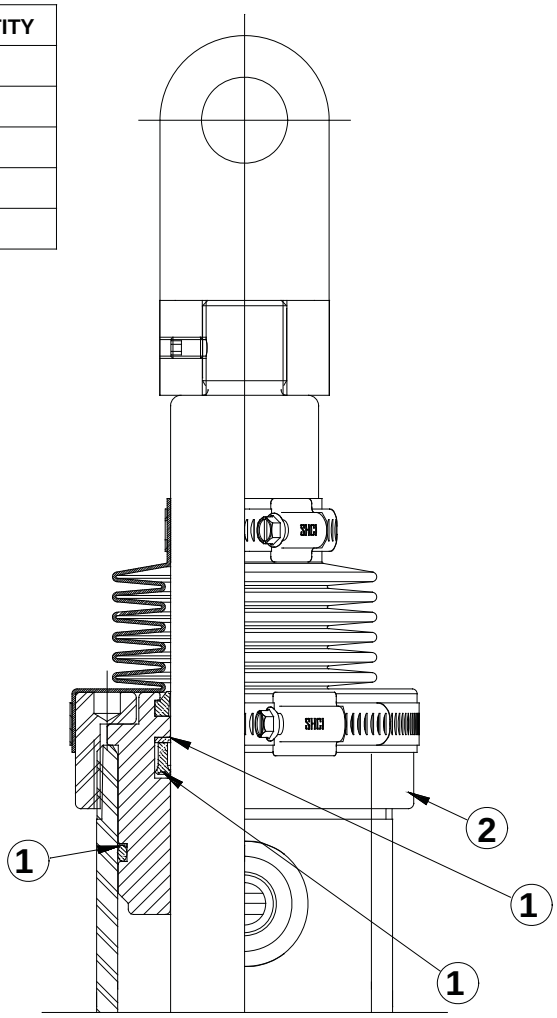
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211539-01	MANIFOLD * FLOW GATES/GENERATOR	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
3	133995-04	FIT * 6 JIC X 10 SAE STR.	1
4	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
5	84635-04	FIT * PLUG 6 SAE	1
6	20N62	BOLT * HEX 3/8"-16 X 5"	2
7	83757	WASHER ~ FLAT 3/8 STEEL	2
8	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
9	83055	NUT * 3/8-16 HEX GRADE 8	2

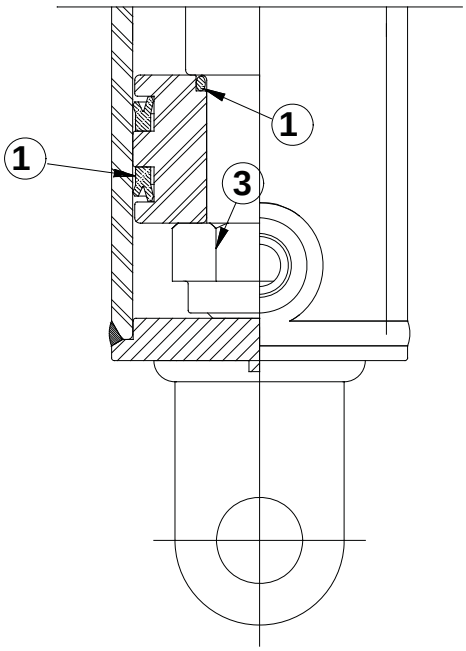
CYLINDER, FLOWGATE
(144894-01)

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

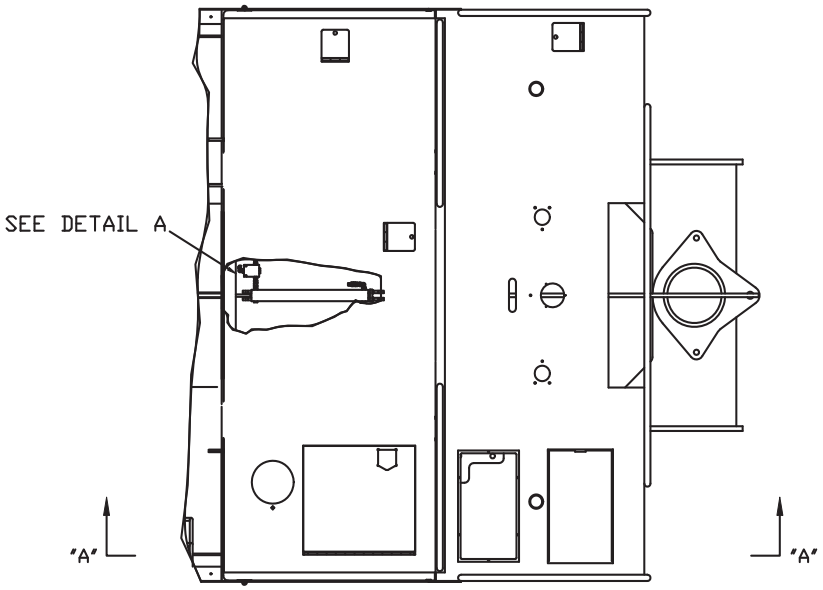


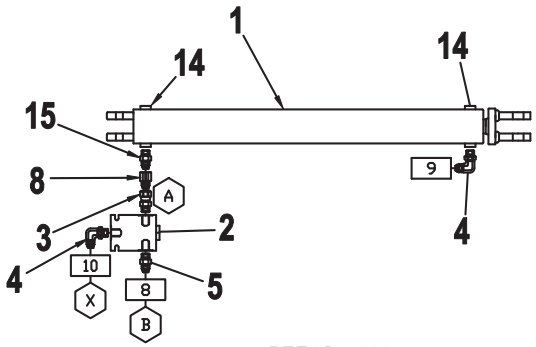




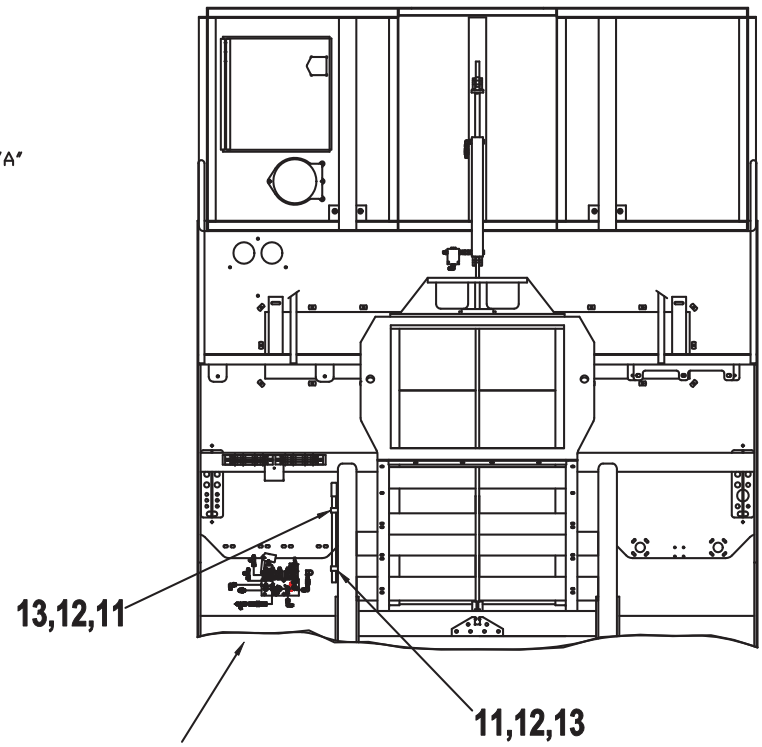


HOOD RAISE HYDRAULICS
(204266-01)

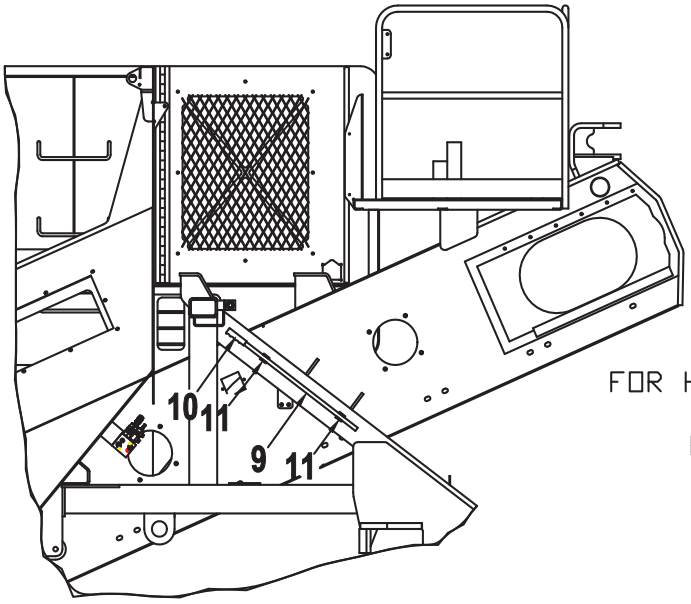




DETAIL 'A'



FOR HAND PUMP/PILOT VALVE MANIFOLD ASSEMBLY SEE PROPEL HYDRAULIC ASSY.



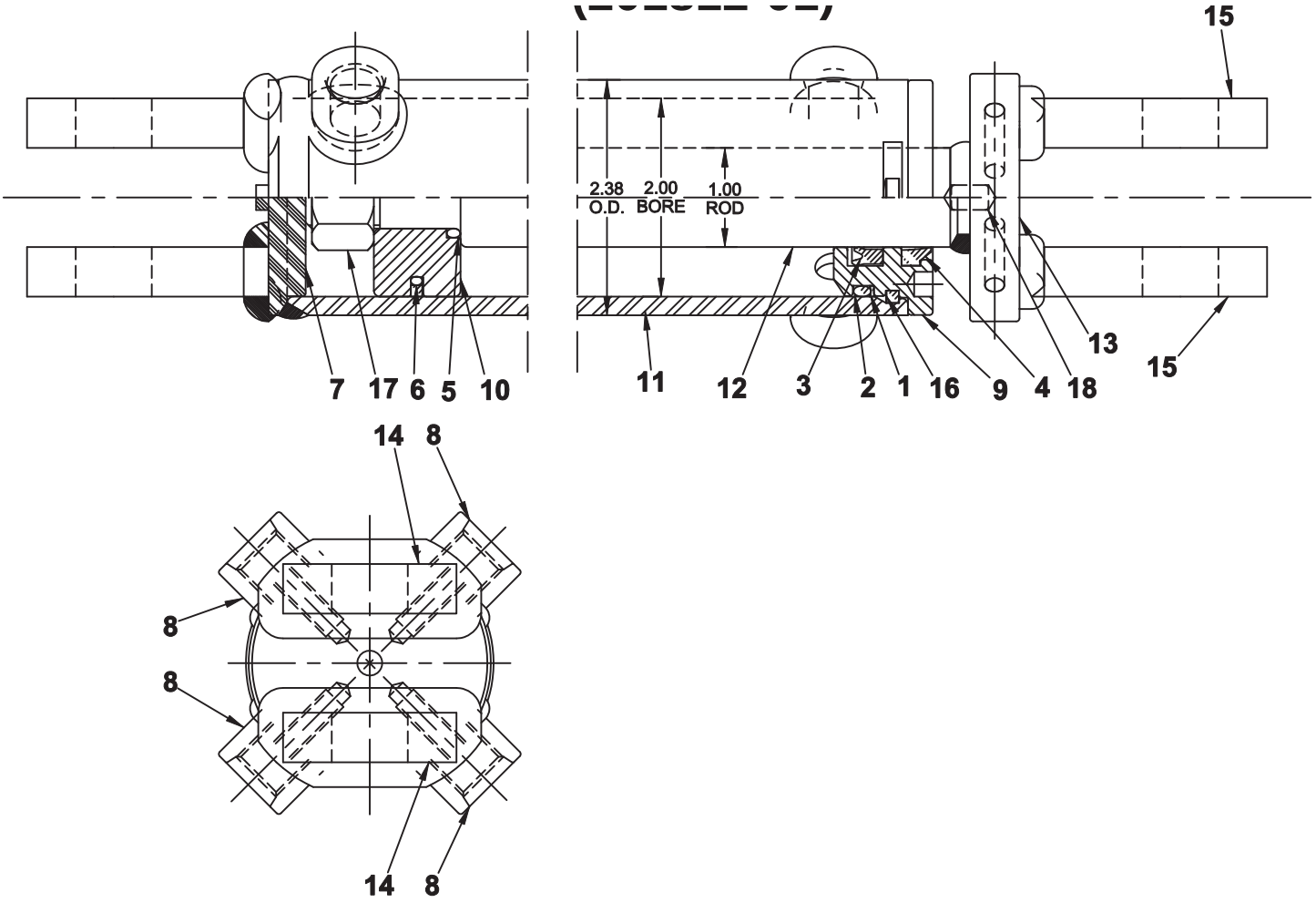
SECTION 'A'

(XX) - ITEM
[XXX] - HOSE NUMBER
(XX) - MANIFOLD PORT

HOOD RAISE HYDRAULICS
(204266-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	201812-01	CYLINDER - 2" BORE X 16" STROKE	1
2	200591	HOLDING VALVE - P.O. CHECK	1
3	135923-04	FIT - 6 JIC X 6 SAE SWIVEL ST CONNECTOR	1
4	83734-04	FIT - 6 JIC X 6 SAE MALE 90 DEG. CONNECTOR	2
5	83735-04	FIT - 6 JIC X 6 SAE ST	1
6			
7			
8	135409-04	FIT - RESTRICTOR 6 JIC X 1/32 ORIFICE	1
9	201315-03	DETAIL - HAND PUMP HANDLE	1
10	201253-04	GRIP - ROUND VINYL GRIP	1
11	98296-C1	KIT - CLIP	2
12	83114	HEX BOLT - 1/4-20 X 1/2"	2
13	83065	LOCK WASHER - 1/4" SPRING STEEL	2
14	84635-04	PLUG - 6 SAE	2
15	137703-04	FIT - 6 SAE X 6 JIC 45 DEG. ELBOW	1

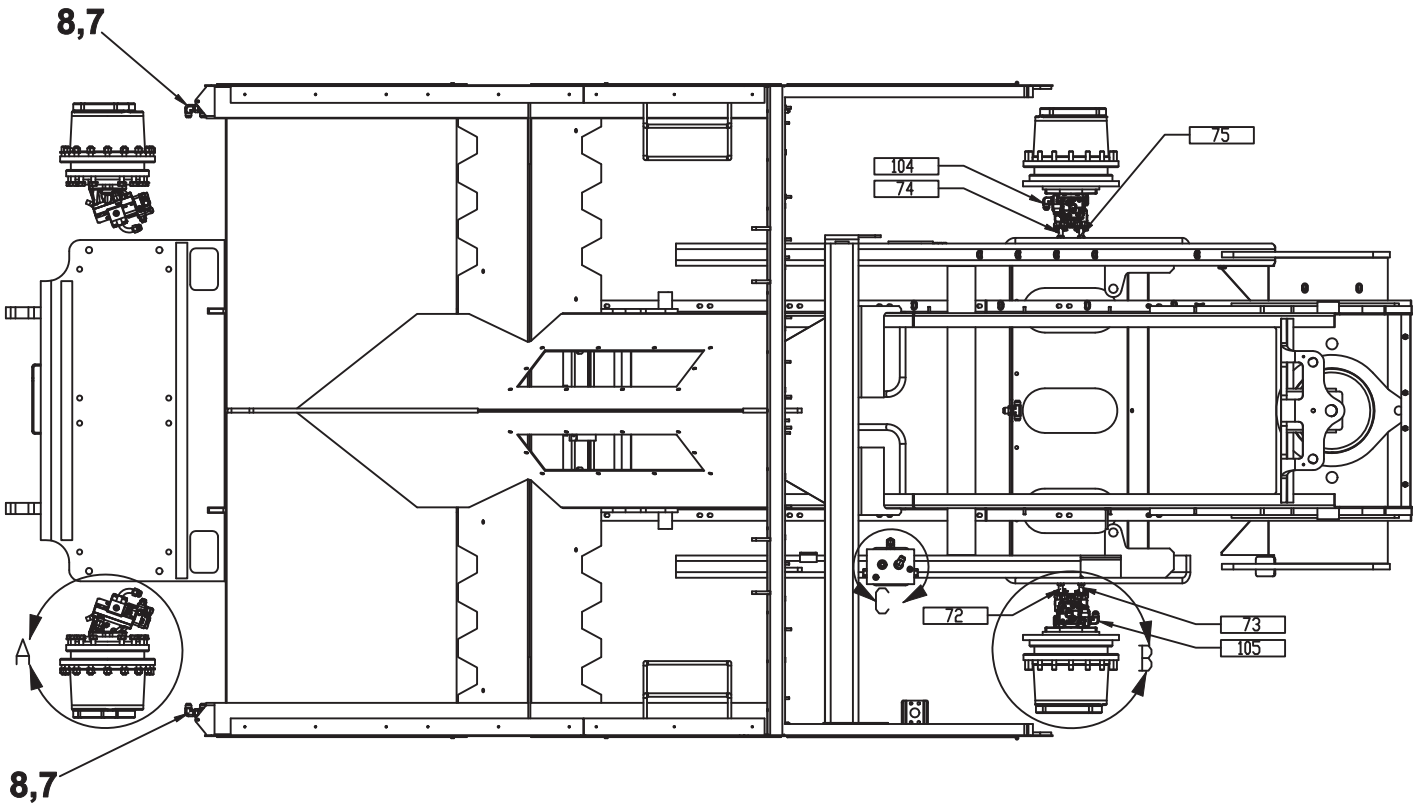
CYLINDER, HOOD RAISE
(201812-01)

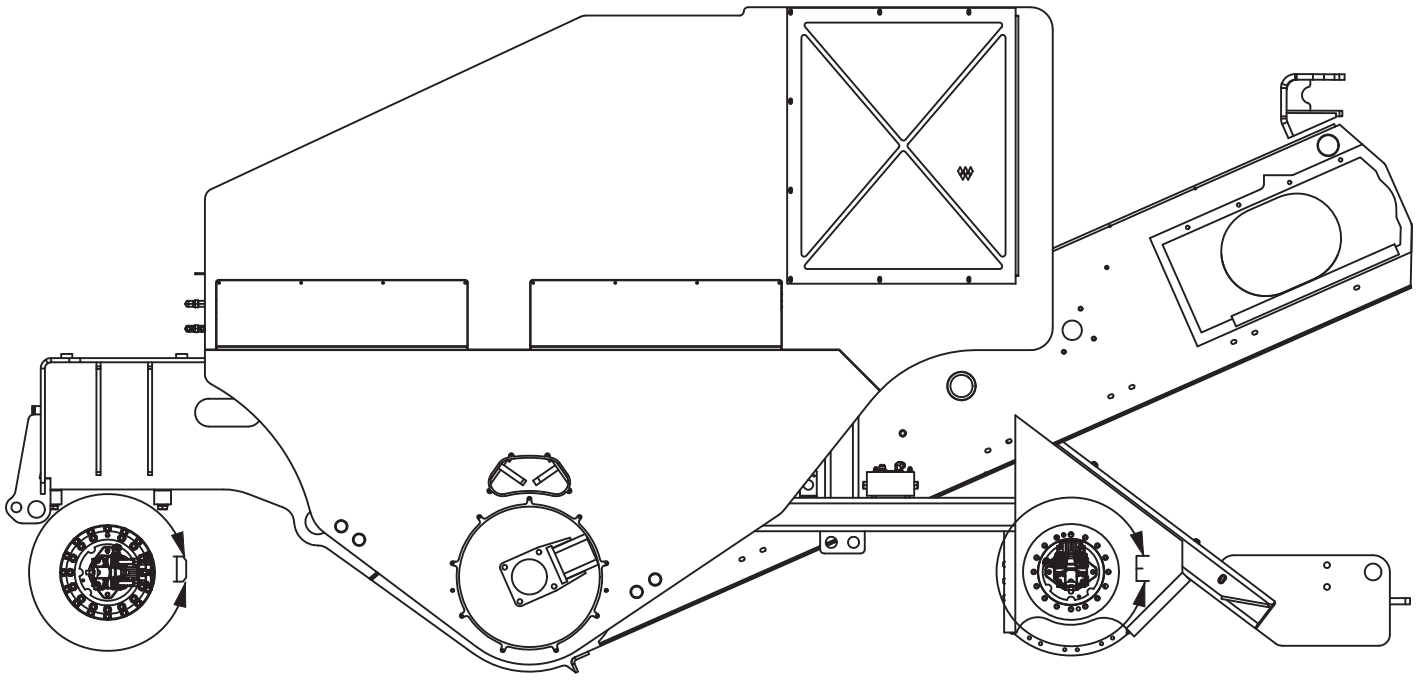


ITEM #	PART NO.	DESCRIPTION	QTY.
1	201812-01-C14	BACK-UP	1
2	201812-01-C15	O-RING	1
3	201812-01-C16	U-CUP	1
4	201812-01-C17	WIPER	1
5	201812-01-C18	O-RING	1
6	201812-01-C19	PISTON SEAL	1
7	201812-01-C2	BASE PLATE	1
8	201812-01-C3	PORT	4
9	201812-01-C4	HEAD	1
10	201812-01-C5	PISTON	1
11	201812-01-C6	TUBE	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			

PROPEL DRIVE HYDRAULICS
(226480-01)

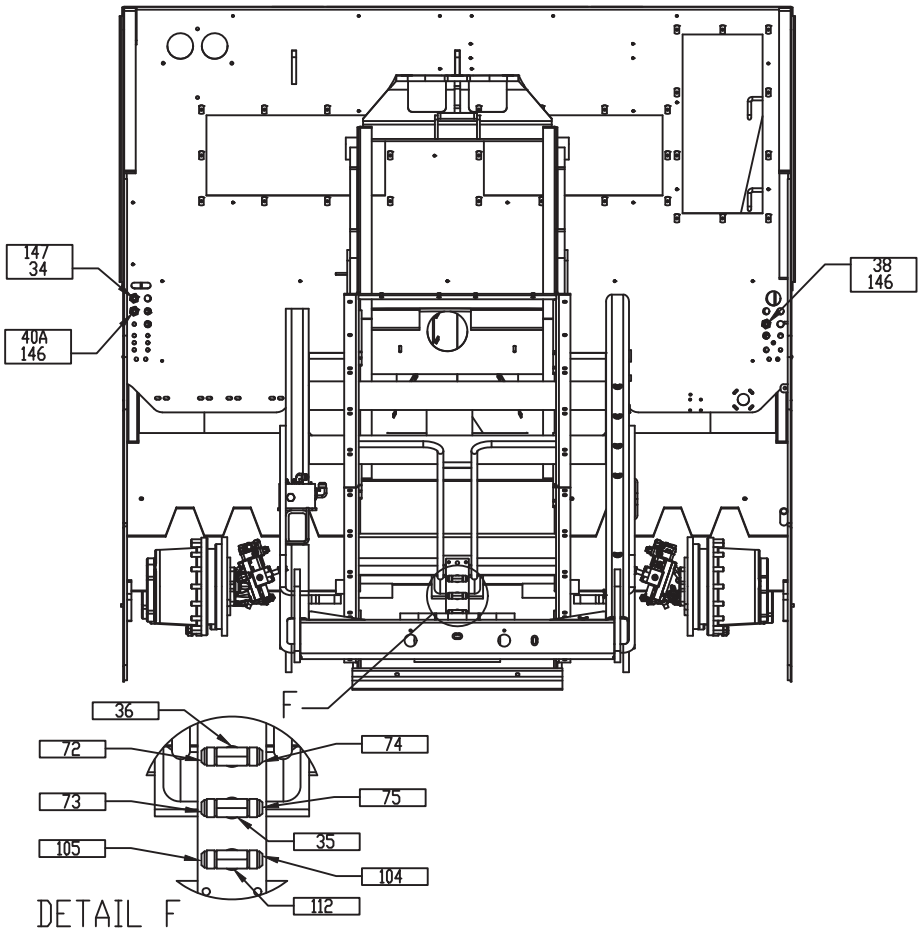
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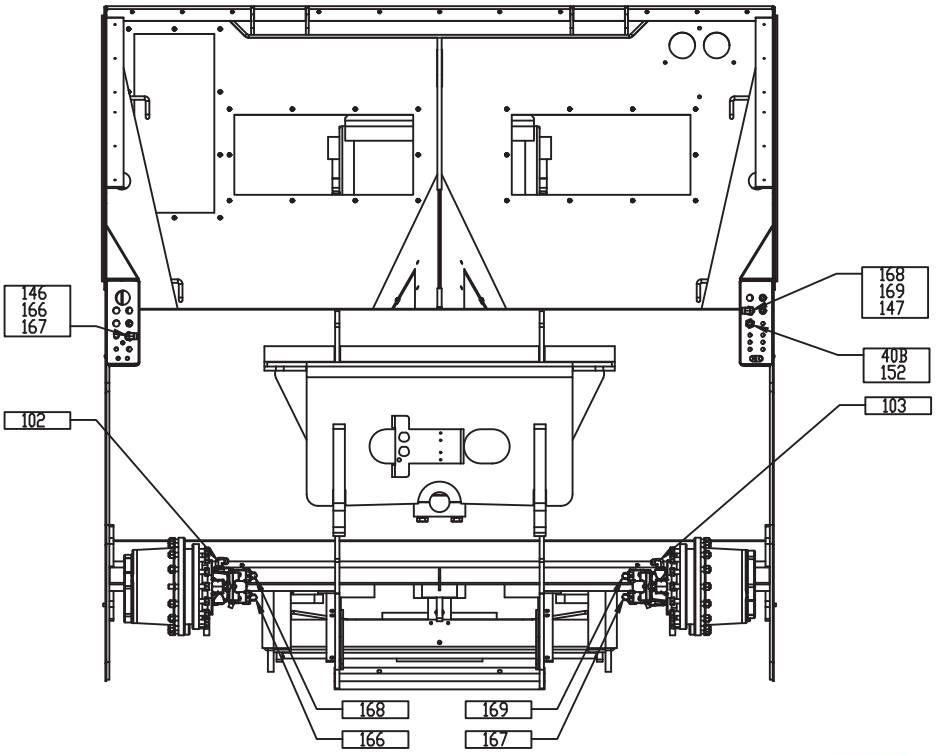




LEFT SIDE DRIVES
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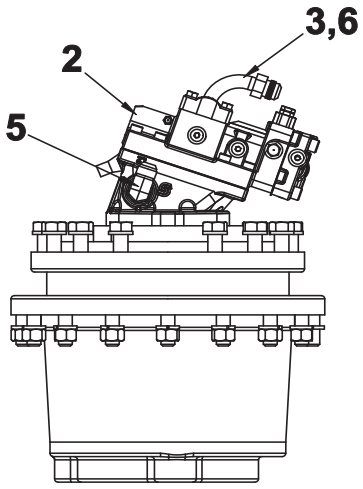
PROPEL DRIVE HYDRAULICS
(226480-01)



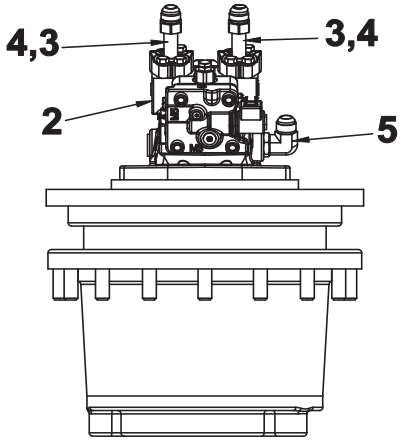


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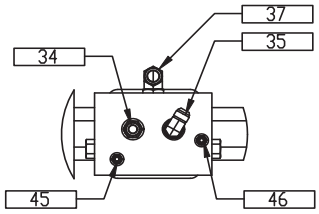
PROPEL DRIVE HYDRAULICS
(226480-01)



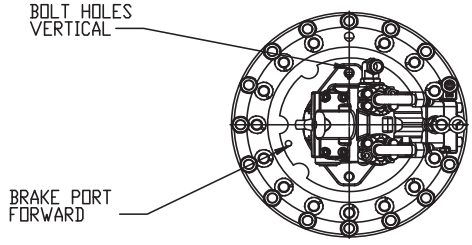
DETAIL A



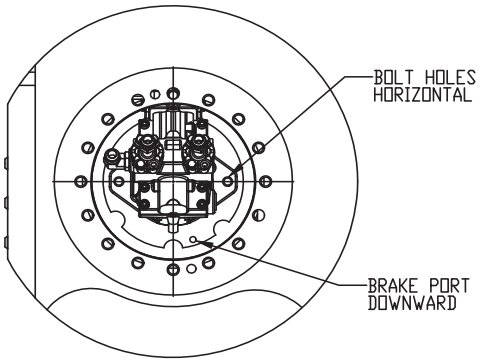
DETAIL B



DETAIL C



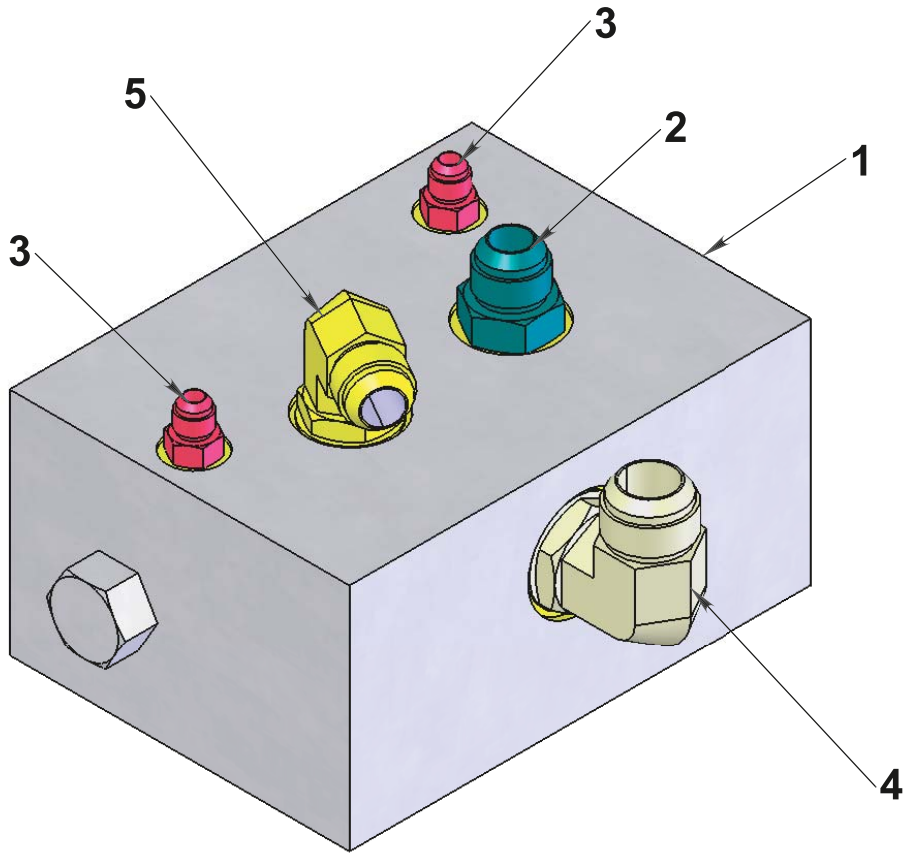
DETAIL D



DETAIL E

ITEM #	PART NO.	DESCRIPTION	QTY.
1	221111-02	ASSY - DIFF LOCK VALVE	1
2	222051-04	MOTOR - S51, 60CC CARTRIDGE .25P	4
3	86076-04	KIT - FLANGE #12 CODE 62	8
4	97555	FIT - 12 JIC - 12 FLG ST CODE 62	4
5	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	4
6	83890-04	FIT - 12 JIC - 12 FLG 90 DEG. CODE 62	4
7	84402-04	FIT - SWIVEL RUN TEE 12 JIC	2
8	83764-04	FIT - ELBOW 12 JIC M 90 DEG. FM SWIVEL	2
9	225092-03	DETAIL - BULKHEAD, FRONT STEERING HOSES	1
10	85302	FIT - BULKHEAD BRANCH TEE 12 JIC	3

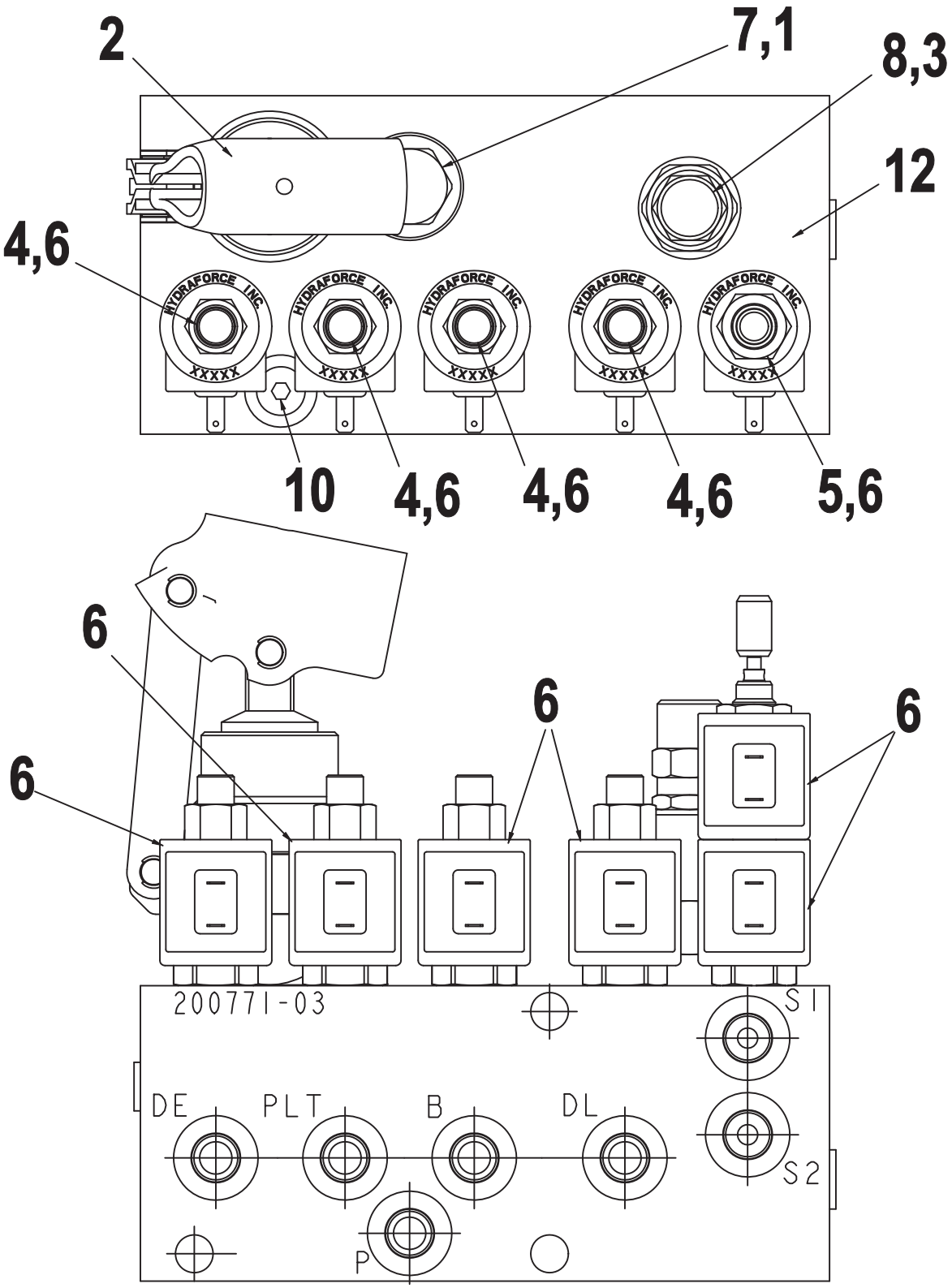
ASSEMBLY- DIFF LOCK VALVE
(221111-02)



ITEM #	PART #	DESCRIPTION	QTY
1	220263-03	MANIFOLD * DIFF-LOCK BODY	1
2	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
4	91660	FIT * ELBOW 16 JIC - 16 SAE 90 DEG.	1
5	91664-04	FIT ~ ELBOW 12 JIC - 12 SAE 90 DEG.	1

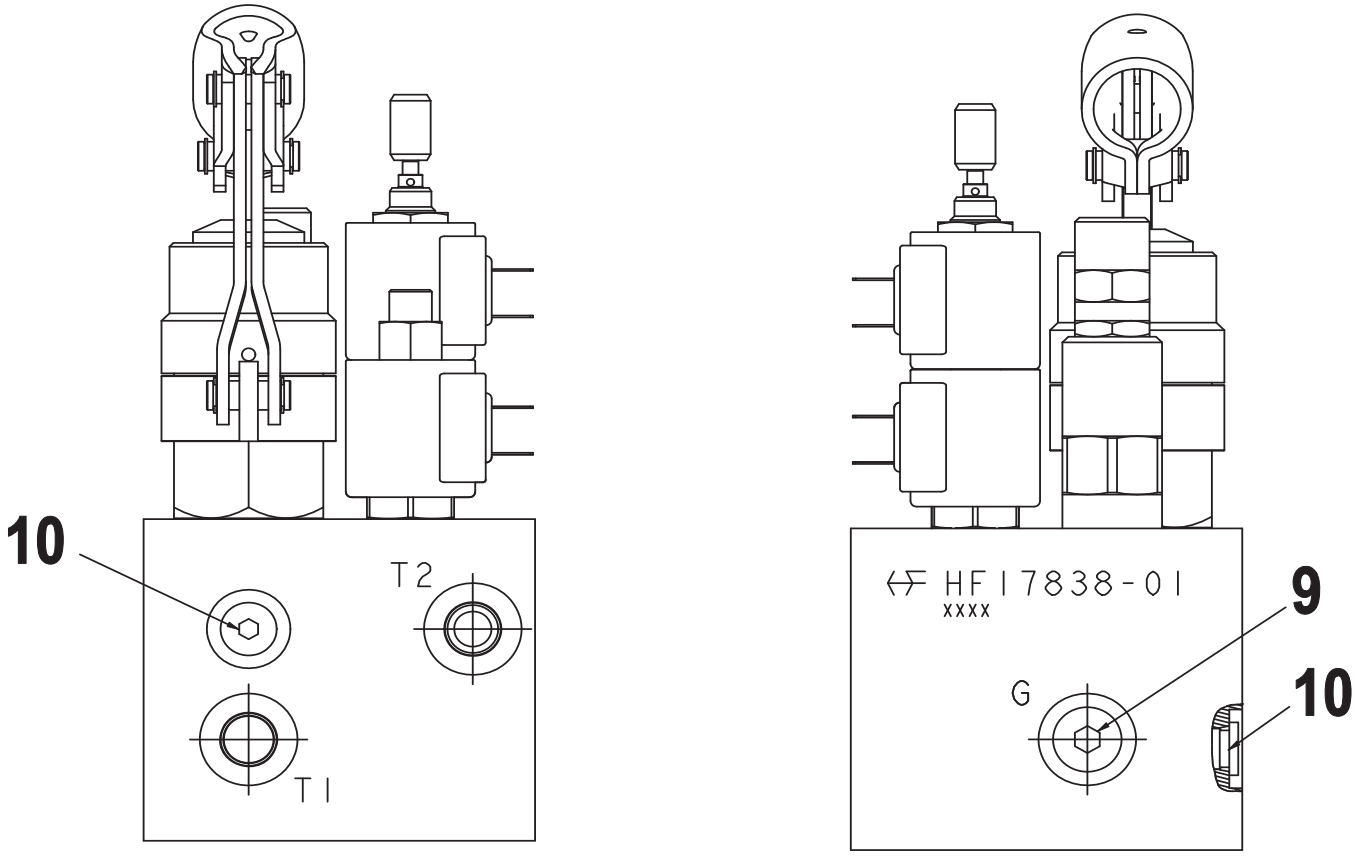
MANIFOLD- HAND PUMP/PILOT VALVE
(200771-03)

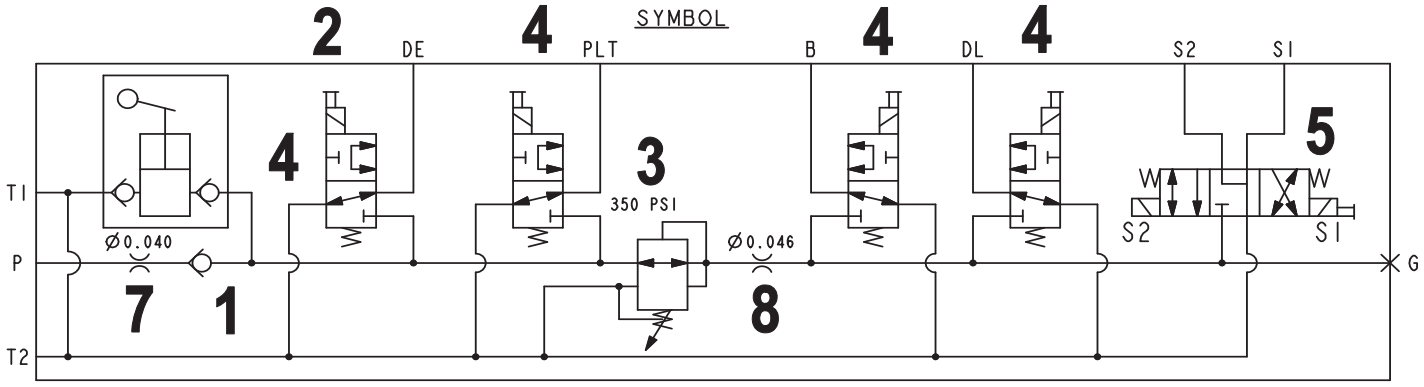
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MANIFOLD- HAND PUMP/PILOT VALVE
(200771-03)

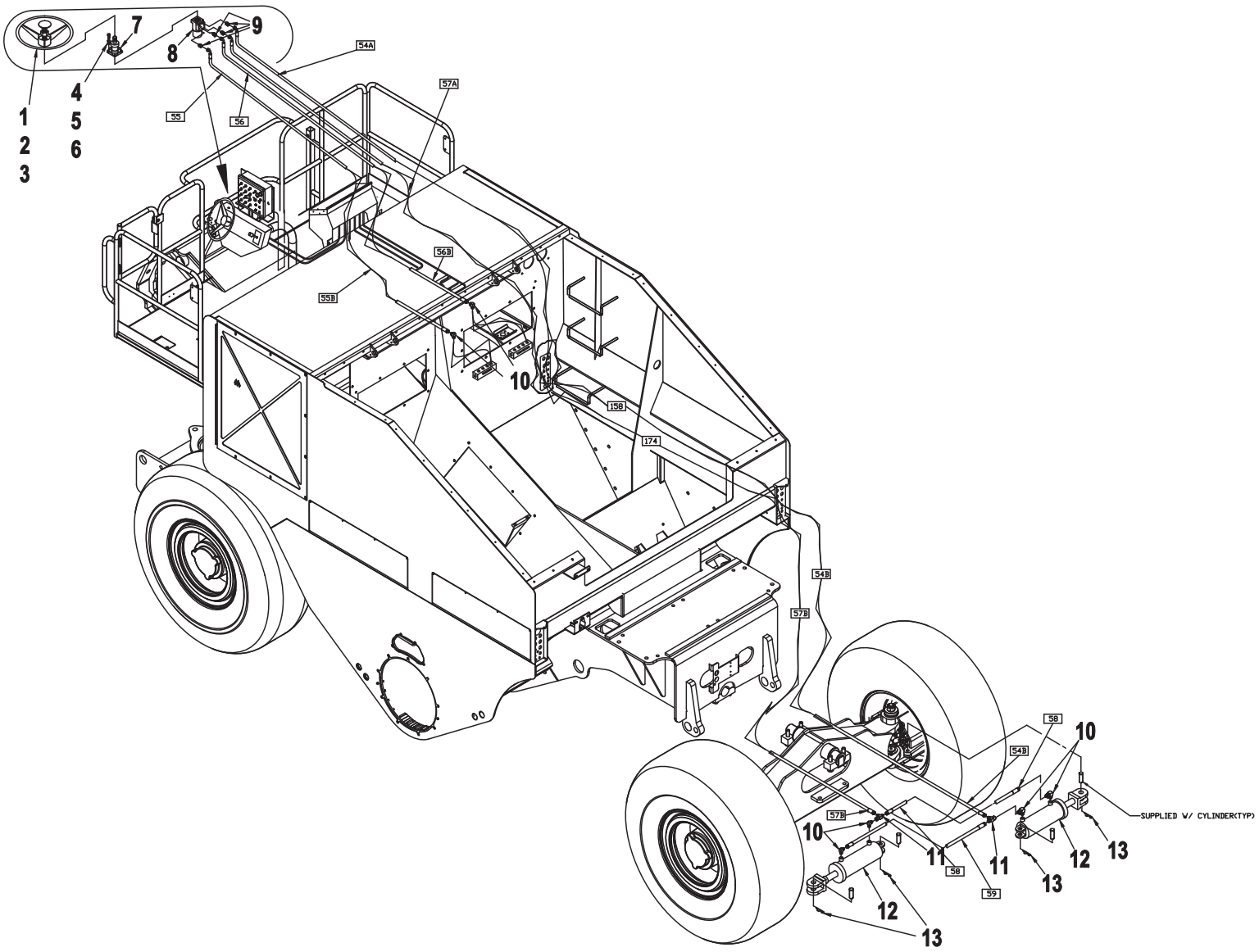




HAND PUMP / PILOT MANIFOLD (200771-03)

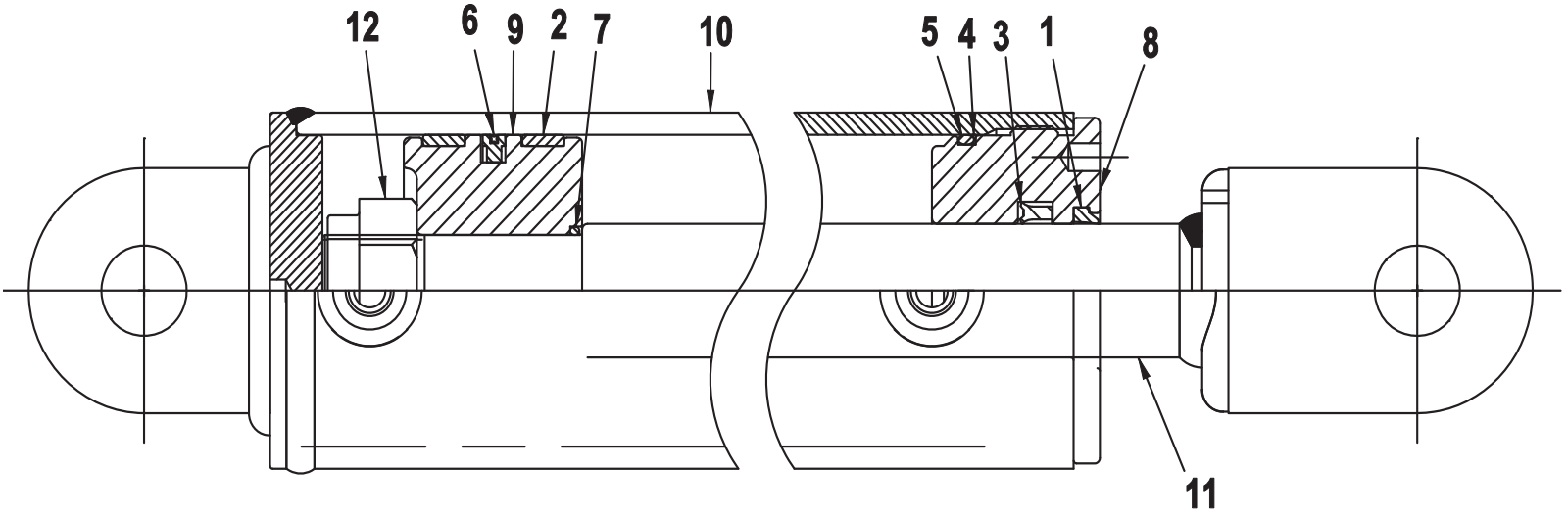
ITEM #	PART NO.	DESCRIPTION	QTY.
1	200771-03-C3	CHECK VALVE	1
2	200771-03-C4	HAND PUMP	1
3	200771-03-C5	PRESSURE REDUCING VALVE	1
4	200771-03-C1	CARTRIDGE VALVE (SOLENOID)	4
5	200771-03-C12	CARTRIDGE VALVE (SOLENOID)	1
6	200771-03-C2	COIL	6
7	200771-03-C6	ORIFICE DISC	1
8	200771-03-C7	ORIFICE DISC	1
9	200771-03-C8	PORT PLUG	1
10	200771-03-C9	PORT PLUG	3
11	200771-03-C10	PLUG	21
12	200771-03-C11	BLOCK	1
13			
14			
15			

STEERING HYDRAULICS
(226479-01)



ITEM #	PART NO.	DESCRIPTION	QTY.
1	143112-03	STEERING WHEEL CAP	REF
2	89045	STEERING WHEEL NUT	REF
3	143111-01	STEERING WHEEL	REF
4	83924	HEX BOLT - 3/8-16 X 1 1/2" GR8	4
5	83056	LOCK WASHER - 3/8"	4
6	83757	FLAT WASHER - 3/8"	6
7	80375-04	STEERING COLUMN	1
8	89048-04	STEERING VALVE	1
9	83469-04	FIT - 6 JIC X 8 SAE ST	4
10	84426-04	FIT - FIT - 6 JIC - 8 SAE 90 DEG. MALE	6
11	84636-04	FIT - 6 JIC SWIVEL RUN TEE	2
12	219625-03	CYL - 3 12" BORE X 11" STROKE	2
13	140174-04	WASHER - STEERING COLUMN PIN WASHER	4
14			
15			

CYLINDER, STEERING
(219625-03)



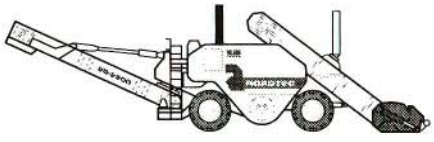
ITEM #	PART NO.	DESCRIPTION	QTY.
1	219625-03-C9	POLY PAK	1
2	219625-03-C10	WIPER	1
3	219625-03-C11	O-RING	1
4	219625-03-C12	FLAT WASHER	4
5	219625-03-C13	BACK-UP	1
6	219625-03-C14	WEAR BAND	2
7	219625-03-C15	PISTON SEAL	1
8	219625-03-C16	O-RING	1
9	219625-03-C2	COTTER PIN	4
10	219625-03-C3	HEAD	1
11	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			

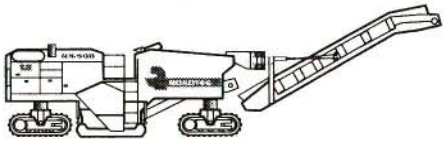
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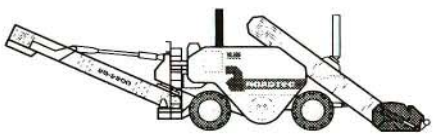
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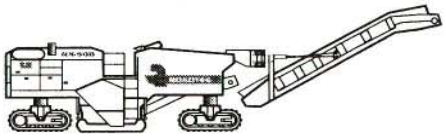
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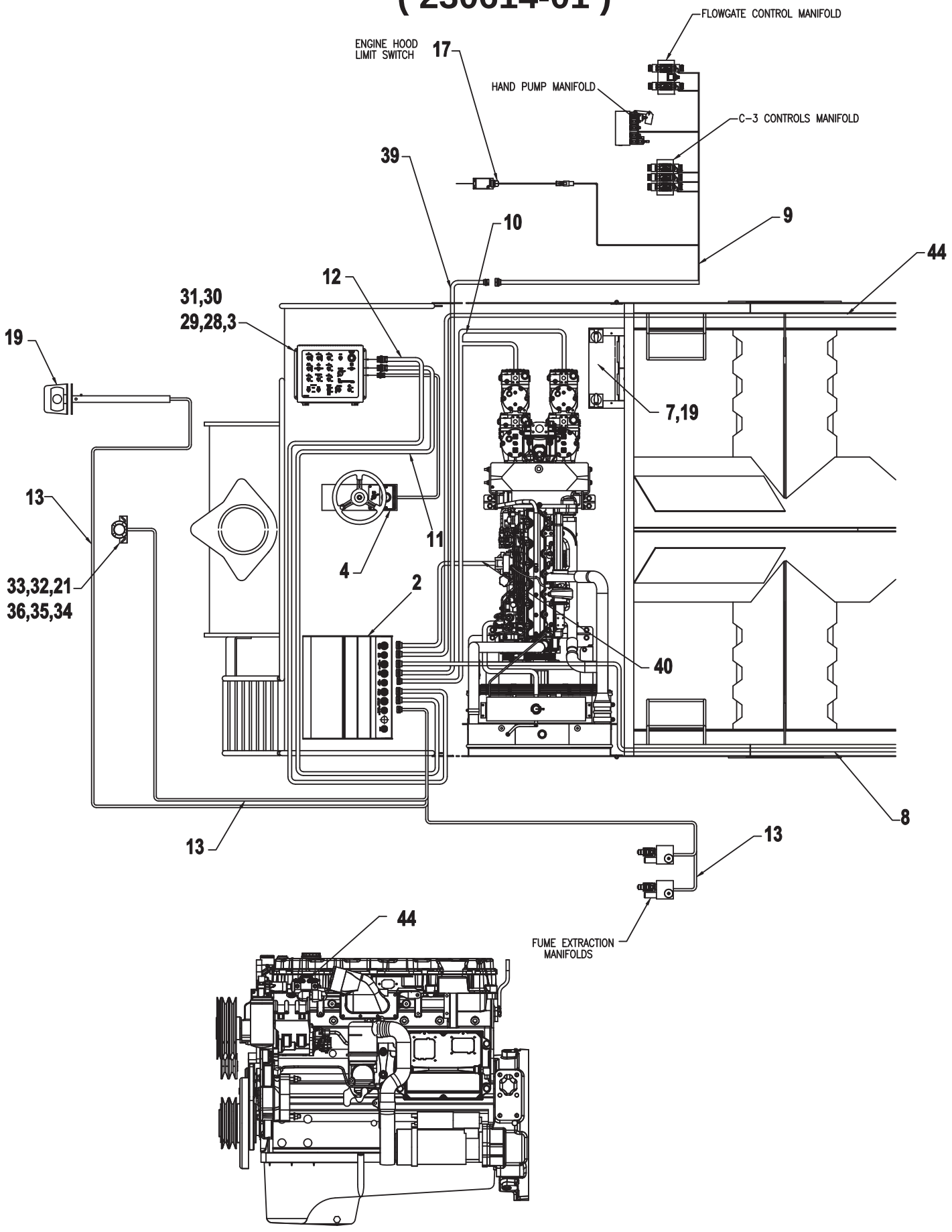
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SECTION 6 : ELECTRICAL

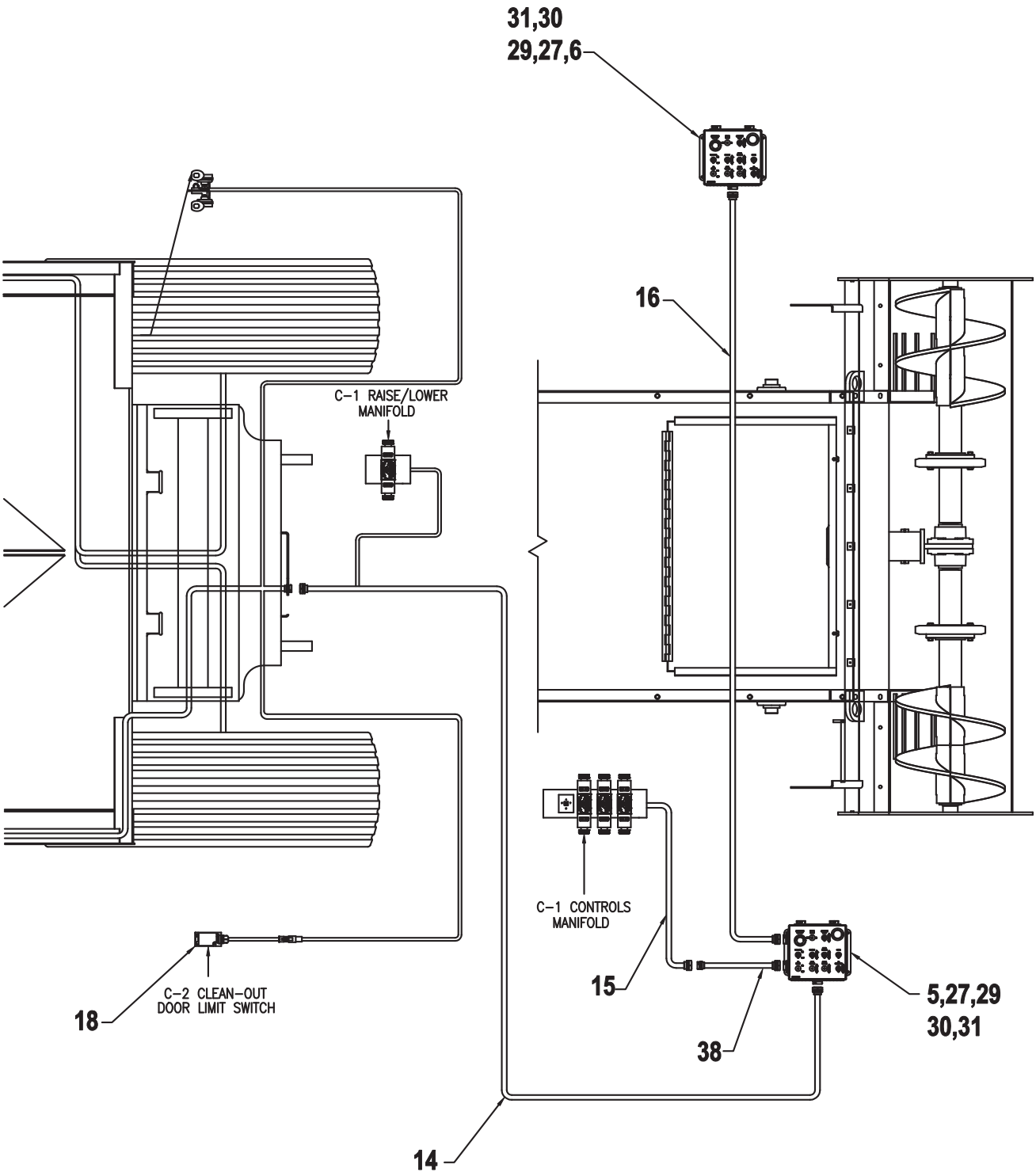
ASSEMBLY	PART NO.	S/N	PAGE NO.
ELECTRICAL	230614-01	1091 & UP	6.1
CENTER CONSOLE	230623-01		6.5
OPERATOR DRIVE CONSOLE	230616-03		6.10
JOYSTICK	230617-02		6.11
STEERING BOX	216472-01		6.13
HARNESS, STEERING BOX CABLE 4	216475-01		6.16
HARNESS, STEERING BOX CABLE 4-1	214216-01		6.17
L.H. C-1 CONTROL BOX	214262-01		6.19
R.H. C-1 CONTROL BOX	215520-01		6.23
HARNESS, R.H. C-1 CONTROL BOX	215556-01		6.27
HARNESS, (JUMPER) TO C-1 CONTROL BOX	215509-01		6.29
HARNESS, C-1 CONTROL BOX CROSSOVER	214222-02		6.31
BATTERY / ISO SWITCH CIRCUIT	227507-02		6.33
MAIN BREAKER & WASHDOWN HARNESS	203487-01		6.35
C-2 CLEAN-OUT DOOR LIMIT SWITCH & PIG TAIL	214279-03		6.36
HARNESS, VALVE STACK	215514-01		6.37
HARNESS, C-1 VALVE STACK	215510-02		6.39
HARNESS, C-1 VALVE STACK DIN PLUG	215511-02		6.40
LIMIT SWITCH W/ WOBBLE LEVER	214563-03		6.41
HARNESS, LIMIT SWITCH W/ WOBBLE LEVER	214541-03		6.42
HARNESS, FXS, BEACON, BACK-UP, & BRAKE	215507-02		6.43
HARNESS, PUMP	214212-01		6.44
HARNESS, ENGINE	216505-01		6.45
SCHEMATIC	230667-01		

SB-2500D ELECTRICAL ASSEMBLY
(230614-01)

NEXT PAGE



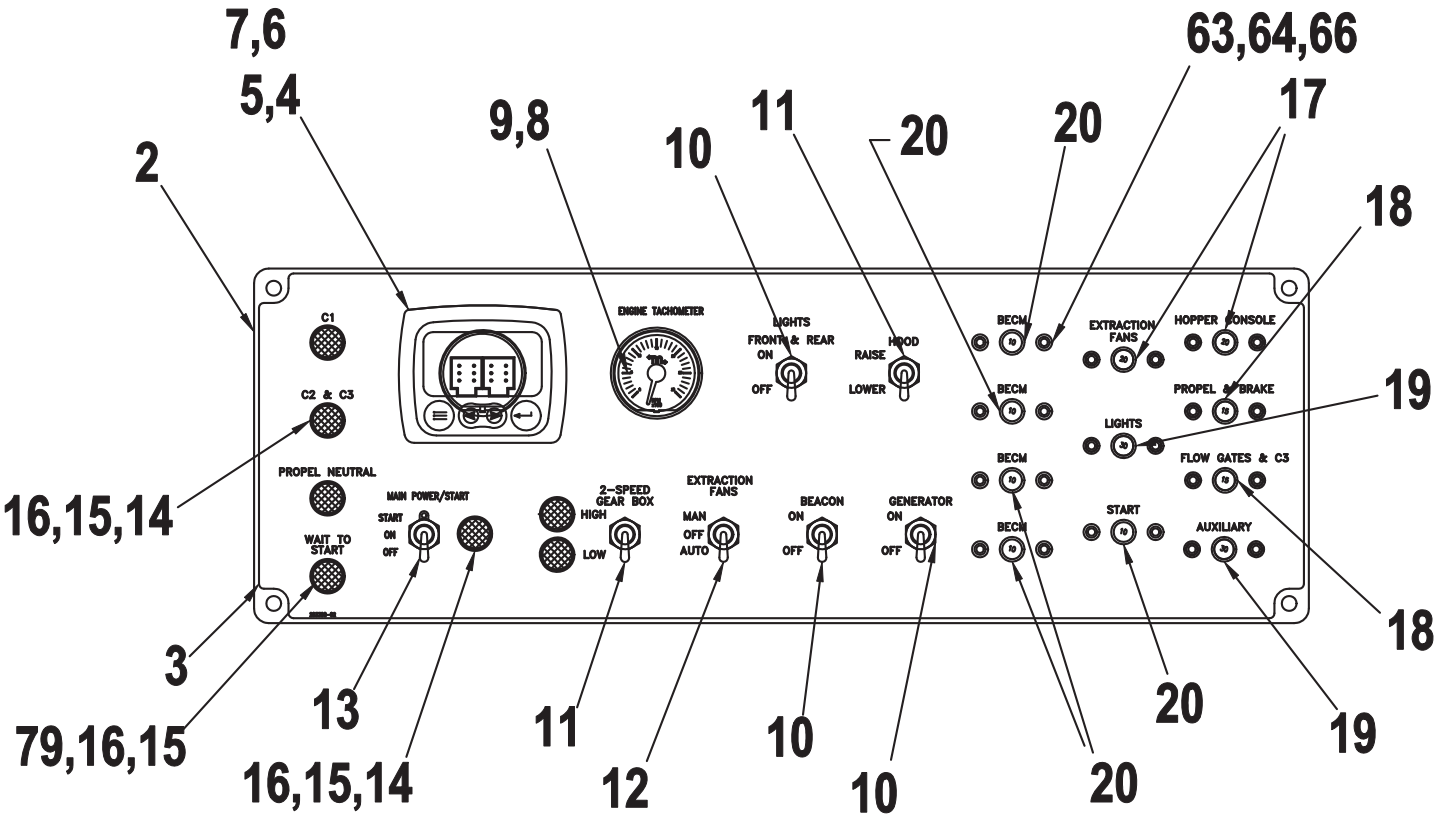
SB-2500D ELECTRICAL ASSEMBLY
(230614-01)

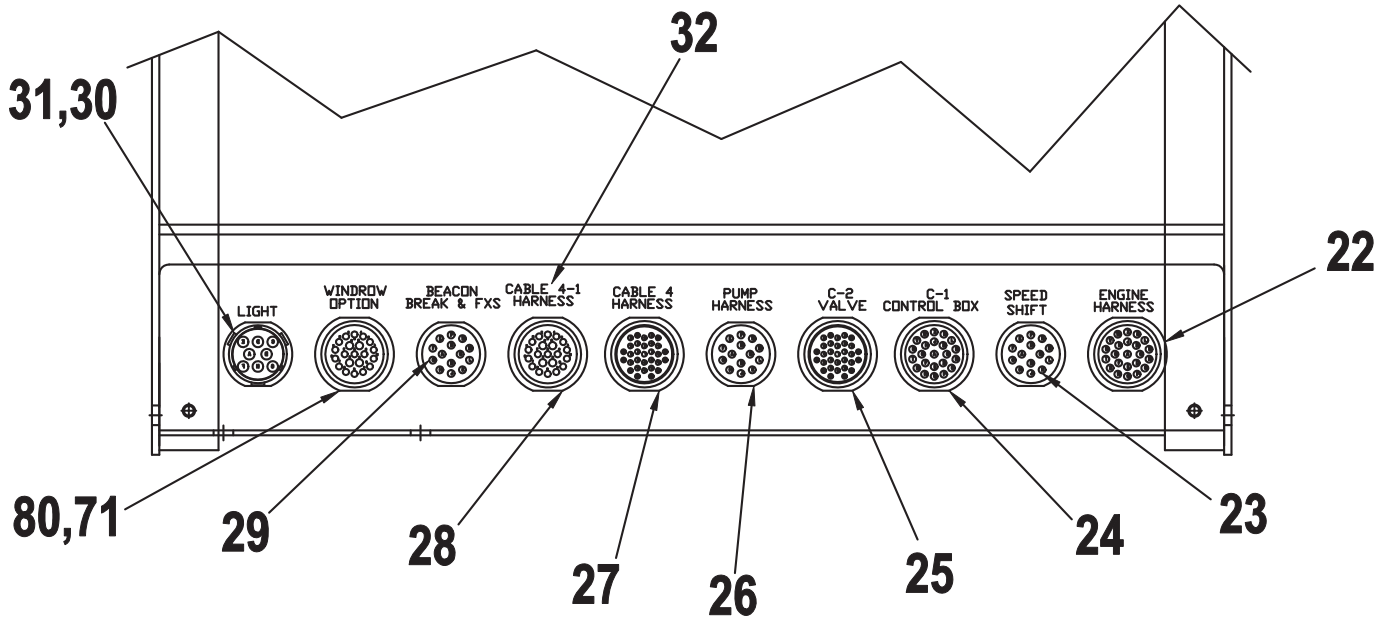


ELECTRICAL ASSEMBLY
(230614-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	230667-01	ELECTRICAL SCHEMATIC	1
2	230623-01	OPERATOR CONSOLE ELECTRICAL	1
3	SEE KIT	STEERING BOX ELECTRICAL ASSY.	REF
4	230616-03	OPERATOR DRIVE CONSOLE ELECTRICAL	1
5	SEE KIT	RH C1 CONTROL BOX ASSY.	REF
6	SEE KIT	LH C1 CONTROL BOX ASSY.	REF
7	227507-02	BATTERY & ISO SWITCH SUB-ASSY.	1
8	SEE KIT	WIRE HARNESS - JUMPER TO C1 CONTROL BOX	REF
9	SEE KIT	WIRE HARNESS - C2 VALVE STACK	REF
10	SEE KIT	WIRE HARNESS - PUMP	REF
11	SEE KIT	WIRE HARNESS - STEERING BOX CABLE 4	REF
12	SEE KIT	WIRE HARNESS - STEERING BOX CABLE 4-1	REF
13	SEE KIT	WIRE HARNESS - FXS,BEACON, BACK-UP, & BRAKE	REF
14	SEE KIT	WIRE HARNESS - RH C1 CONTROL BOX	REF
15	SEE KIT	WIRE HARNESS - C1 VALVE STACK DIN PLUG	REF
16	SEE KIT	WIRE HARNESS - C1 CONTROL BOX CROSSOVER	REF
17	214563-03	LIMIT SWITCH W/ WOBBLE SWITCH	1
18	214562-03	LIMIT SWITCH C2 CLEAN OUT DOOR	1
19	SEE KIT	WIRE HARNESS - BREAKER & WASH DOWN	REF
20	214370-01	STROBE LIGHT ASSY.	1
21	215976-03	REVERSING ALARM ASSY.	1
22	97779-04	ALARM - TWIN TONE HORN	1
23	83657-04	WIRE TIE - 3/16" X 7" NYLON	300
24	126976	WIRE TIE - 3/16" X 5 1/2" NYLON	200
25	83905-04	WIRE TIE - 1/4" X 14" NYLON	200
26	141038	3/4" ELECTRICAL TAPE X 60 YD.	1
27	89988-04	HEX BOLT - 1/4-20 UNC X 3/4"	12
28	89773	HEX BOLT - 1/4-20 UNC X 1"	4
29	89772	HEX NUT - 1/4-20 UNC	16
30	84444	FLAT WASHER - 1/4"	32
31	83065	LOCK WASHER - 1/4"	16
32	84332	HEX BOLT - 3/8-16 UNC X 1"	2
33	83055	HEX NUT - 3/8-16 UNC	2
34	83757	FLAT WASHER - 3/8"	4
35	83056	LOCK WASHER - 3/8"	2
36	139702-04	STAR WASHER - 3/8"	1
37	230615-02	KIT - WIRE HARNESS & BOXES	1
38	SEE KIT	WIRE HARNESS - C1 VALVE STACK	REF
39	SEE KIT	WIRE HARNESS - VALVE STACK	REF
40	SEE KIT	WIRE HARNESS - ENGINE	REF
41	219962-03	WIRE - SB-2500D ENGINE GROUND	1
42	221163-04	ELECTRICAL TAPE - RED	.05
43	133521-04	STA-KON TERMINAL	6
44	80445-04	SOLENOID 12V-200 AMP	1
45	SEE KIT	SPEED SHIFT	REF

CENTER CONSOLE ELECTRICAL ASSEMBLY
(230623-01)





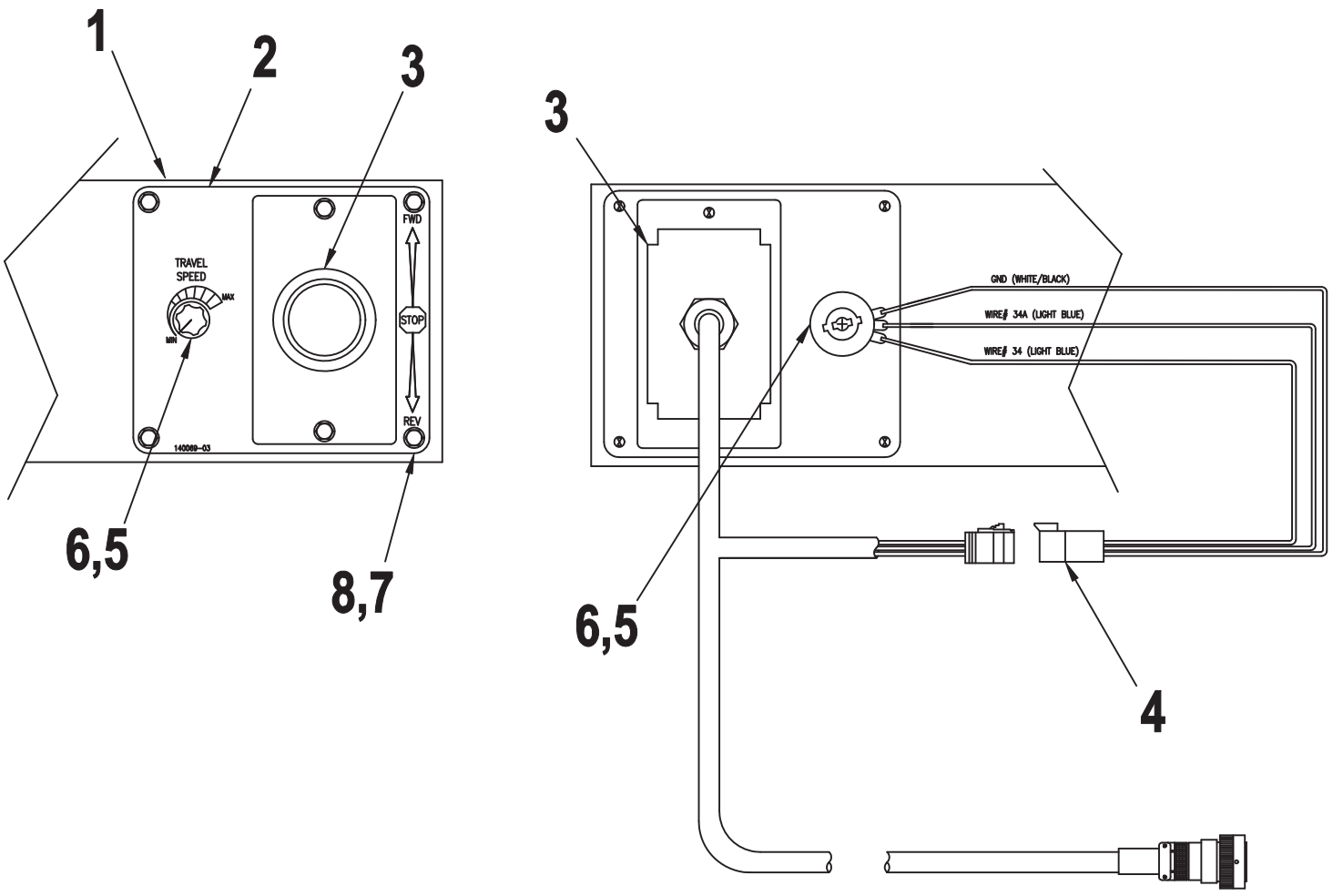
CENTER CONSOLE ELECTRICAL ASSY. (230623-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	216437-01	CENTER CONSOLE WLDMT.	1
2	216436-03	CENTER CONSOLE COMPONENT PLATE	1
3	230668-02	DATA PLATE - CENTER CONSOLE	1
4	207662-03	GAUGE - DIAGNOSTIC & DISPLAY	1
5	207719-03	WIRE HARNESS - CAM & POWER	1
6	207716-03	WIRE HARNESS - JUMPER 9"	1
7	207717-03	WIRE HARNESS - POWER VIEW	1
8	207664-03	GAUGE - TACHOMETER	1
9	207668-04	POWERVIEW JUMPER TERM RESISTOR	1
10	13E68	TOGGLE SWITCH	3
11	139471	TOGGLE SWITCH	2
12	20P56	TOGGLE SWITCH	1
13	87311-04	TOGGLE SWITCH	1
14	80448-04	LIGHT - GREEN JEWEL LENS	6
15	128180	LIGHT BULB 12V	7
16	80449-04	LIGHT SOCKET	7
17	90089	BREAKER - CIRCUIT 20 AMP	2
18	13A04	BREAKER - CIRCUIT 15 AMP	2
19	92523-04	BREAKER - CIRCUIT 30 AMP	2
20	90088	BREAKER - CIRCUIT 10 AMP	5
21	135727-04	POWER RELAY 12V 65 AMP	2
22	216504-01	PIG TAIL - ENGINE	REF
23	220412-03	PIG TAIL - SPEED SHIFT	REF
24	215508-02	PIG TAIL - C1 CONTROL BOX	REF
25	215512-02	PIG TAIL - C2 VALVE STACK	REF
26	214211-02	PIG TAIL - PUMPS	REF
27	216474-02	PIG TAIL - STEERING BOX CABLE 4	REF
28	214215-02	PIG TAIL - STEERING BOX CABLE 4-1	REF
29	215506-02	PIG TAIL - FXS, BEACON, BACK-UP ALARM & BRAKE	REF
30	214311-03	PIG TAIL - FRONT & REAR LIGHTS	REF
31	212815-04	DEUTSCH CAP - SIZE 16	1
32	214266-04	DECAL KIT - DEUTSCH PLUG	1
33	217317-02	DATA PLATE KIT - DEUTSCH PLUG	1
34	138601-03	DECAL - ALUM NUMBER STICKER	1
35	13C69	TERMINAL BLOCK	103
36	97976	ADHESIVE MOUNT	46
37	96776X	RELAY - LATCHING DPDT	1
38	96777	RELAY - BASE	1
39	96777-C1	KIT - CLIP	1
40	121746-04	RELAY - BOSCH 12V	5
41	93253	WIRE TERMINAL	20
42	90554	RING TERMINAL #10	20
43	28Y52	FEMALE TERMINAL	300
44	93986	RING TERMINAL	3
45	121538	FEMALE TERMINAL	2

CENTER CONSOLE ELECTRICAL ASSY. (230623-01)

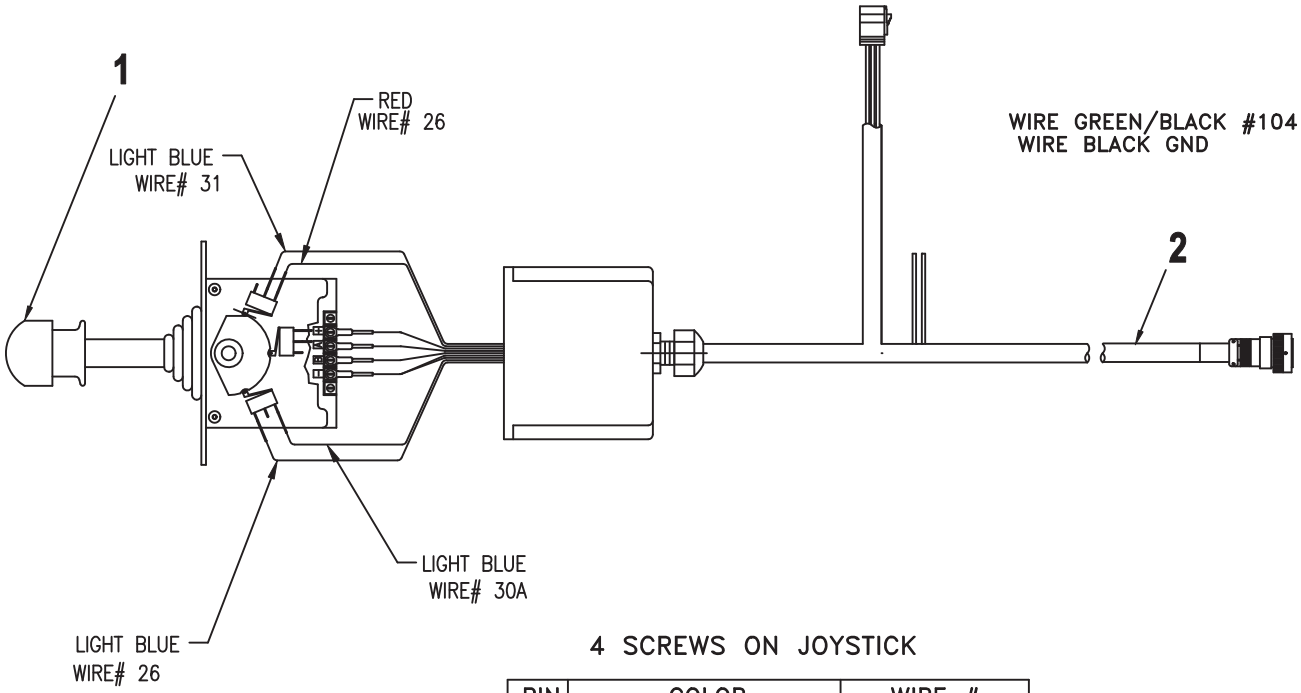
ITEM #	PART NO.	DESCRIPTION	QTY.
46	90553	RING TERMINAL 1/4	2
47	93988	STUD - 10 AWG 5/16	3
48	128219	RING TERMINAL	4
49	97735	FEMALE TERMINAL	6
50	121539	MALE TERMINAL	3
51	98319	FEMALE SPADE TERMINAL	10
52	83856-04	WIRE TIE - 3/16 X 4	57
53	126976	WIRE TIE - 3/16 X 5 1/2"	43
54	83657-04	WIRE TIE - 3/16 X 7	12
55	06996	SCREW - M3-0.5 X 20	3
56	04762	NUT - M3-0.5	3
57	92554	FLAT WASHER - #6	3
58	131551	FLAT LOCK - #6	3
59	121396	WIRE - FEMALE CONNECTOR 10 AWG	80
60			
61	140459-04	DIN RAIL	4"
62	135807-04	SCREW - 10-32 X 1"	22
63	90101	SCREW - 10-32 X 3/4"	22
64	90102	HEX NUT - 10-32	26
65	92552	FLAT WASHER - #10	48
66	90103	FLAT LOCK - #10	12
67	96476	HEX BOLT - 3/8-16 UNC X 1 1/4" (ECM)	3
68	83757	FLAT WASHER - 3/8"	3
69	83065	LOCK WASHER - 3/8	3
70	141825-A1	KIT - WIRE MARKERS	1
71	216911-02	PIG TAIL - WINDROW	REF
72	210423-04	WIRE 16 AWG SINGLE RED	1152"
73	95578	WIRE 16 AWG SINGLE WHITE/BLACK	1008"
74	210425-04	WIRE 16 AWG SINGLE YELLOW	2880"
75	87856-04	WIRE 12 AWG SINGLE WHITE/BLACK	120"
76	87856-04	WIRE 12 AWG SINGLE RED	720"
77	95019	WIRE 10 AWG SINGLE RED	96"
78	91207-04	SCREW -10-32 X 1 1/4"	70
79	80446-04	LIGHT - RED JEWEL LENS	1
80	221687-04	DEUTSCH CAP - SIZE 24	1

OPERATOR DRIVE CONSOLE SUB-ASSY.
(230616-03)



ITEM #	PART NO.	DESCRIPTION	QTY.
1		OPERATOR MAIN CONSOLE WLDMT.	REF
2	200985-03	DECAL - OPERATOR DRIVE CONSOLE BOX	1
3	230617-02	JOYSTICK ASSY.	1
4	SEE KIT	WIRE HARNESS - ROTARY POT OPERATOR DRIVE	REF
5	130406	ROTARY POT 25 WATTS 100 OHM	1
6	120276-C1	ROTARY POT KNOB 1/4 SHAFT	1
7	133842	HEX HEAD SELF DRILLING SCREWS - 1/4-20 X 3/4"	6
8	84444	FLAT WASHER - 1/4"	6
9			
10			

JOYSTICK ASSEMBLY
(230617-02)



4 SCREWS ON JOYSTICK

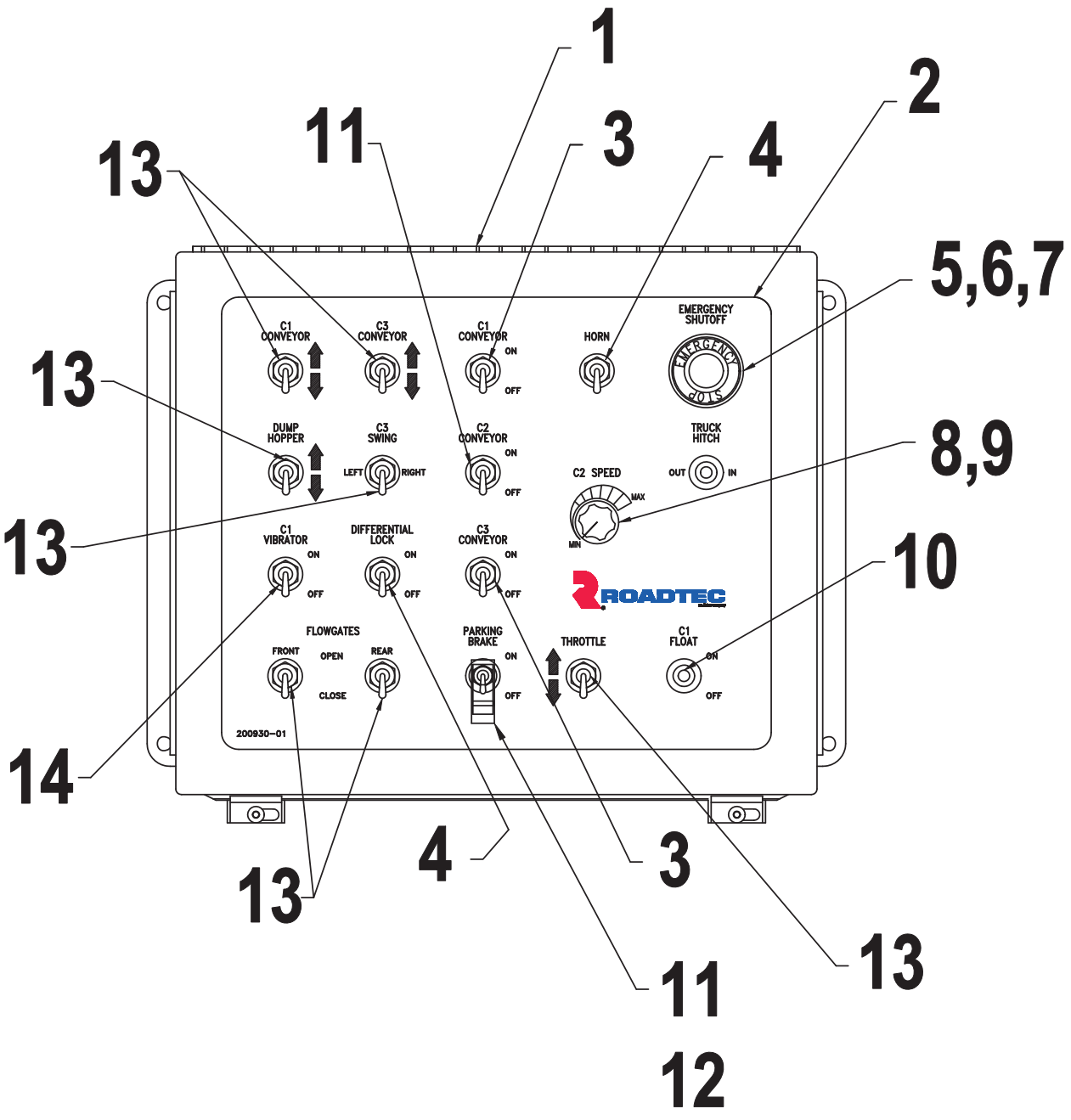
PIN	COLOR	WIRE #
–	WHITE/BLACK	GND
B	LIGHT BLUE	33
A	LIGHT BLUE	32
+	LIGHT BLUE	34A

NOTE: WHITE/BLACK GROUND JUMP TO 3 PIN DUTSCH (PIN B)
NOTE: BLUE/WHITE GROUND TO 3 PIN DUTSCH (PIN C)

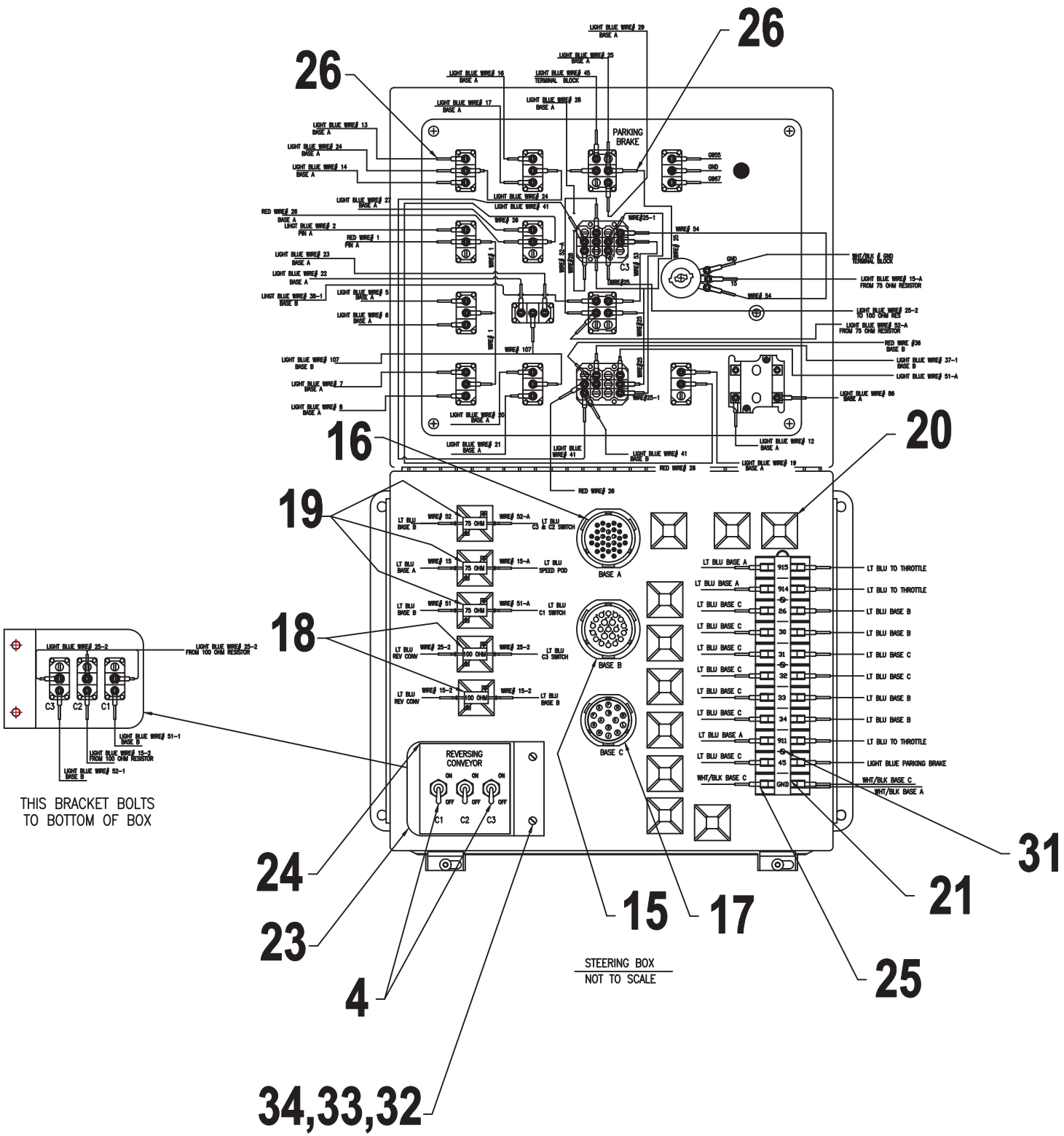
ITEM #	PART NO.	DESCRIPTION	QTY.
1	98204	ELECTRICAL CONTROL	1
2	SEE KIT	WIRE HARNESS - JOYSTICK	REF
3			
4			
5			

STEERING BOX ELECTRICAL ASSEMBLY.
(216472-01)

NEXT PAGE



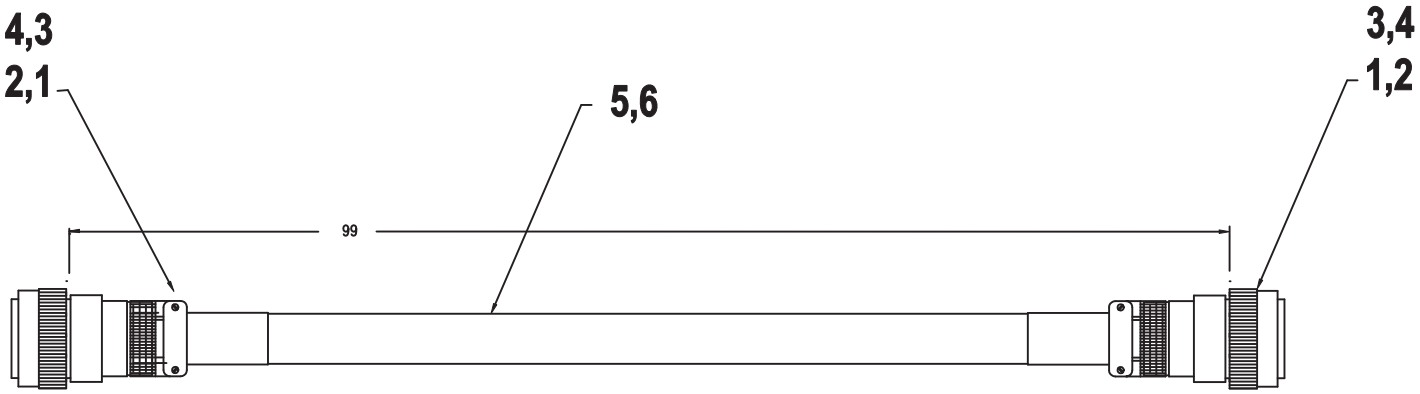
STEERING BOX ELECTRICAL ASSEMBLY.
(216472-01)



STEERING BOX ELECTRICAL ASSEMBLY
(216472-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	216470-01	STEERING CONTROL BOX	1
2	216469-01	DATA PLATE - STEERING CONTROL BOX	1
3	20Z53	SELECTOR SWITCH	2
4	97542	TOGGLE SWITCH	5
5	93251-04	SWITCH - EMERGENCY STOP	1
6	93250-04	EMERGENCY STOP CONTACT BLOCK	1
7	93251-04-C3	EMERGENCY STOP BUTTON	1
8	130406	ROTARY POT 25 WATT 100 OHM	1
9	120276-C1	ROTARY POT KNOB 1/4" SHAFT	1
10	97944-04	HOLE PLUG - 1/2"	2
11	97678	TOGGLE SWITCH	2
12	97490-C1	SWITCH COVER	1
13	139471	TOGGLE SWITCH	7
14	13E68	TOGGLE SWITCH	1
15	214389-02	PIG TAIL - STEERING BOX CABLE 4-1	1
16	216476-02	PIG TAIL - STEERING BOX CABLE 4	1
17	214225-02	PIG TAIL - JOYSTICK	1
18	97621	RESISTOR - 100 OHM 10 WATT	2
19	120275	RESISTOR - 75 OHM 10 WATT	3
20	97976	ADHESIVE MOUNT	30
21	13C69	TERMINAL BLOCK	11
22	213723-04	DATA PLATE - ID STRIP	1
23	121388-02	BRACKET - OPERATOR CONSOLE	1
24	127431-04	DATA PLATE - REVERSING CONVEYOR	1
25	210432-04	CONNECTOR - AMP FEMALE 16 AWG	20
26	93253	RING TERMINAL - 16 AWG	61
27	121396	FEMALE TERMINAL	10
28	93988	RING TERMINAL - 5/16	1
29	83856-04	WIRE TIE - 3/16 X 4 NYLON	48
30	126976	WIRE TIE - 3/16 X 5 1/2 NYLON	44
31	135807-04	SLOT HD. SCREW - 10-32 X 1"	3
32	90101	SLOT HD. SCREW - 10-32 X 3/4"	2
33	90103	LOCK WASHER - #10	2
34	92552	FLAT WASHER - #10	4

HARNESS- STEERING BOX CABLE 4
(216475-01)

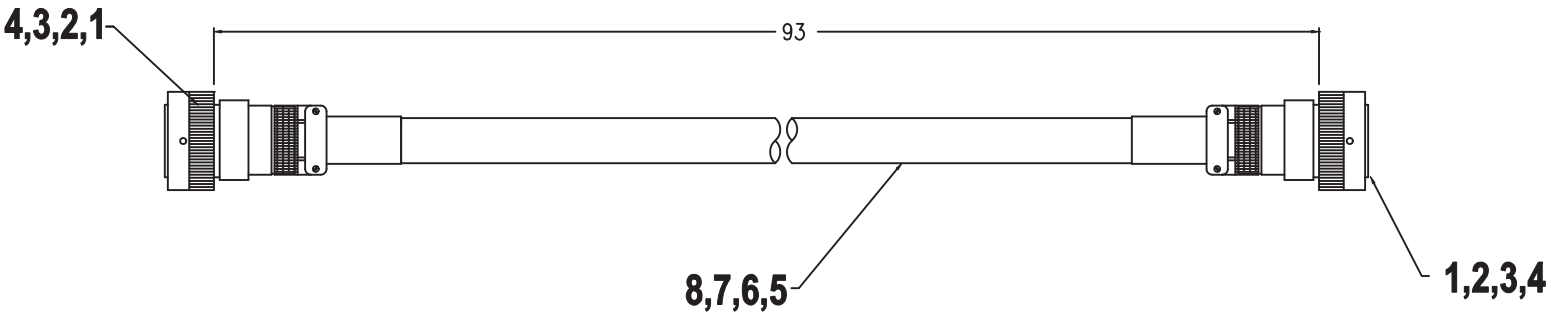


31 PIN LAY-OUT

PIN	COLOR	WIRE #	FUNCTION
1	LIGHT BLUE	27	DIFF LOCK
2	LIGHT BLUE	6	TRUCK DUMP
3	LIGHT BLUE	13	FLOW GATES
4	LIGHT BLUE	21	C3 LIFT
5	LIGHT BLUE	29	PARKING BRAKE
6	LIGHT BLUE	8	C1 LIFT
7	LIGHT BLUE	2	12 VOLTS
8	LIGHT BLUE	86	E-STOP
9	RED	1	VIBRATOR
10	LIGHT BLUE	5	TRUCK DUMP
11	RED	26	12 VOLTS
12	LIGHT BLUE	28	PARKING BRAKE
13	LIGHT BLUE	19	HORN
14	LIGHT BLUE	16	FLOW GATES
15	LIGHT BLUE	17	FLOW GATES
16	LIGHT BLUE	15	C2 ON
17	LIGHT BLUE	7	C1 LIFT
18	LIGHT BLUE	12	E-STOP
19	LIGHT BLUE	23	C3 SWING
20	LIGHT BLUE	14	FLOW GATES
21	LIGHT BLUE	3	TRUCK HITCH
22	RED	24	12 VOLTS
23	RED	25	12 VOLTS
24	LIGHT BLUE	20	C3 LIFT
25	LIGHT BLUE	22	C3 SWING
26	LIGHT BLUE	4	TRUCK HITCH
27	WHITE/BLACK	GND	THROTTLE
28	LIGHT BLUE	G955	THROTTLE
29	LIGHT BLUE	G967	THROTTLE
30			
31			

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211957-04	DEUTSCH 31 PIN PLUG W/ CLAMP	2
2	133746-04	DEUTSCH 16-18 AWG SOCKET	60
3	133741-04	SEALING PLUG	4
4		WIRE - 16 AWG RED (126-16800-500-22)	396"
5		WIRE - 16 AWG LIGHT BLUE (126-16800-500-22L)	2376"
6	143719	SPLIT LOOM - 1 1/4"	99
7		WIRE 16 AWG WHITE/BLACK (126-16800-500-90)	99"

HARNESS- STEERING BOX CABLE 4-1
(214216-01)



21 PIN DETAIL

	PIN	COLOR	WIRE #	FUNCTION
	A	LIGHT BLUE	32	PROPEL JOYSTICK B
*	B			
	C	RED	26	12 VOLTS
*	D			
*	E	WHITE/BLACK (12 AWG)	GND	GROUND
	F	LIGHT BLUE	30	STARTER RELAY
*	G			
	H	RED	36	12 VOLTS
	J	LIGHT BLUE	31	BACK UP ALARM
	K	LIGHT BLUE	34	BRAKE PRESSURE SWITCH
	L	LIGHT BLUE	38-1	C2 CONVEYOR
	M	LIGHT BLUE	33	PROPEL JOYSTICK A
	N	LIGHT BLUE	37-1	C2 CONVEYOR
	P	LIGHT BLUE	15-2	C1 PUMP
	R	LIGHT BLUE	41	C3 PUMP
	S	LIGHT BLUE	51	C3 CONVEYOR
	T	LIGHT BLUE	63	C1 NEUTRAL LIGHT
	U	LIGHT BLUE	52	C1 PUMP
	V	LIGHT BLUE	107	C1 FLOAT
	W	LIGHT BLUE	51-1	C3 PUMP
	X	LIGHT BLUE	52-1	C3 CLEAN OUT DOOR

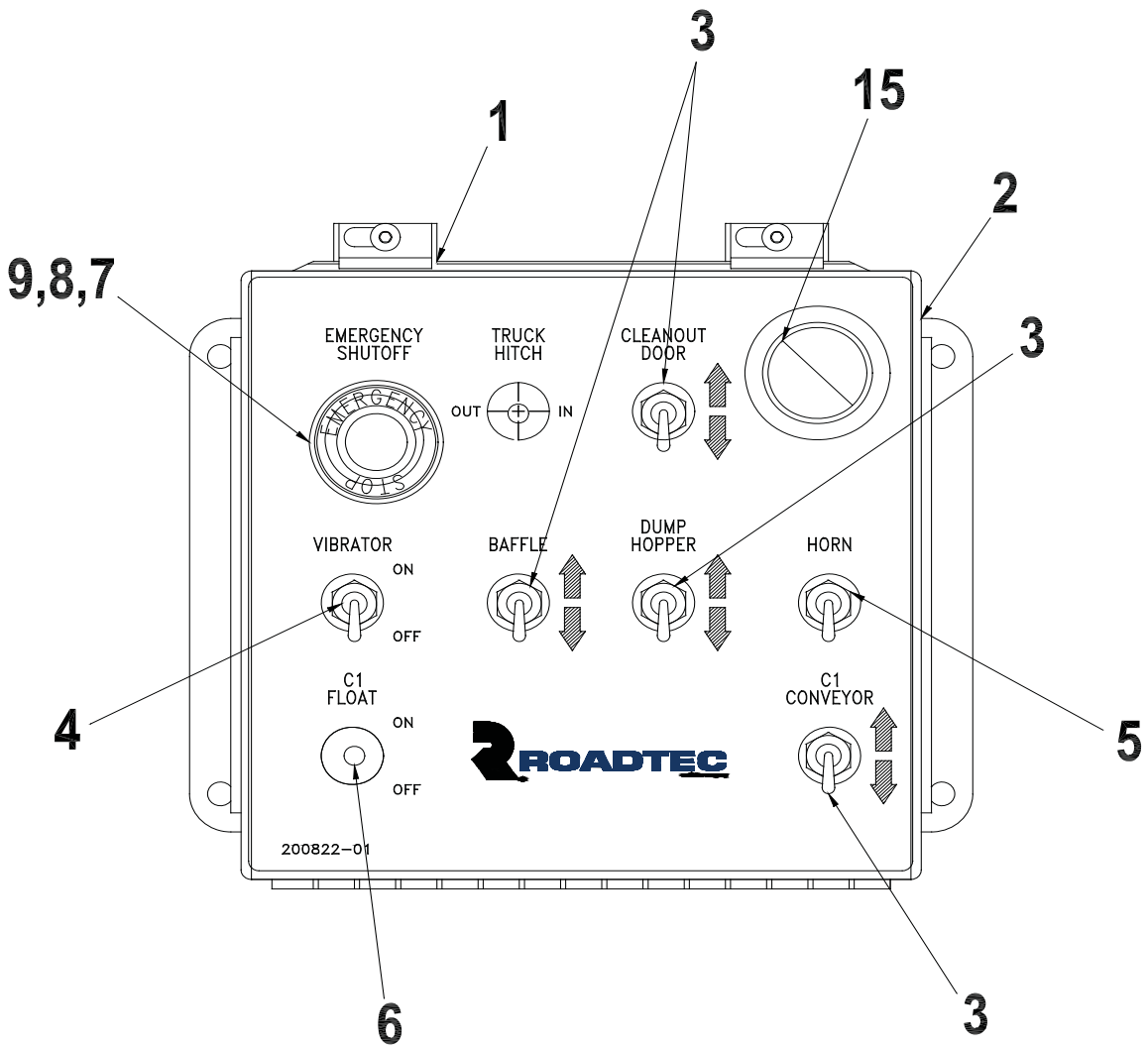
* NOTE: PINS B, D, E & G IS 12 AWG

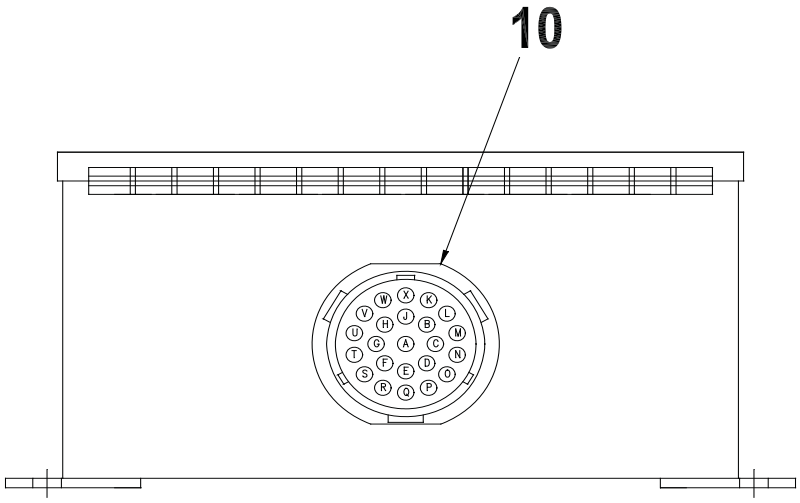
16 AWG TO BE 19 STRANDS OF 29 GAUGE FULLY ANNEALLED BARE COPPER WIRE
WIRING INSULATION TO BE CROSS LINKED POLYETHYLENE TYPE GXL
NO SUBSTITUTIONS WITHOUT ROADTEC ENGINEERING APPROVAL

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211949-04	PLUG - 21 PIN DEUTSCH REVERSE W/ CLAMP	2
2	137176-04	PIN CONNECTOR - 16 AWG	34
3	139060-04	PIN CONNECTOR - 12 AWG	2
4	133741-04	SEAL PLUGS	6
5		WIRE - 16 AWG LIGHT BLUE (126-16800-5000-66L)	1395"
6		WIRE - 12 AWG WHITE/BLACK (126-16800-5000-90)	93"
7		WIRE - 16 AWG RED (126-16800-5000-22)	186"
8	98298	SPLIT LOOM - 1"	93"

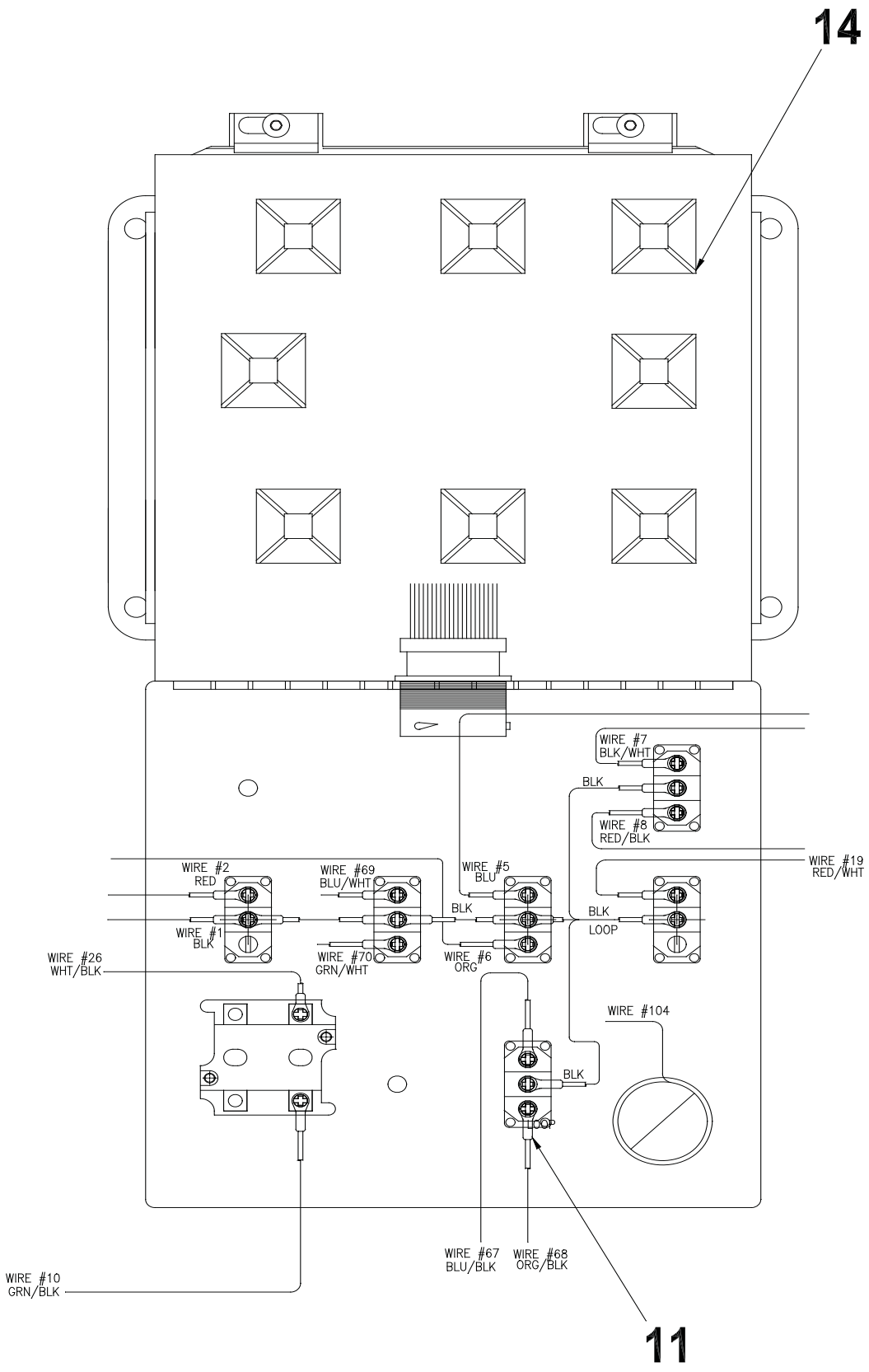
L.H. C-1 CONTROL BOX ASSEMBLY.
(214262-01)

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L.H. C-1 CONTROL BOX ASSEMBLY.
(214262-01)

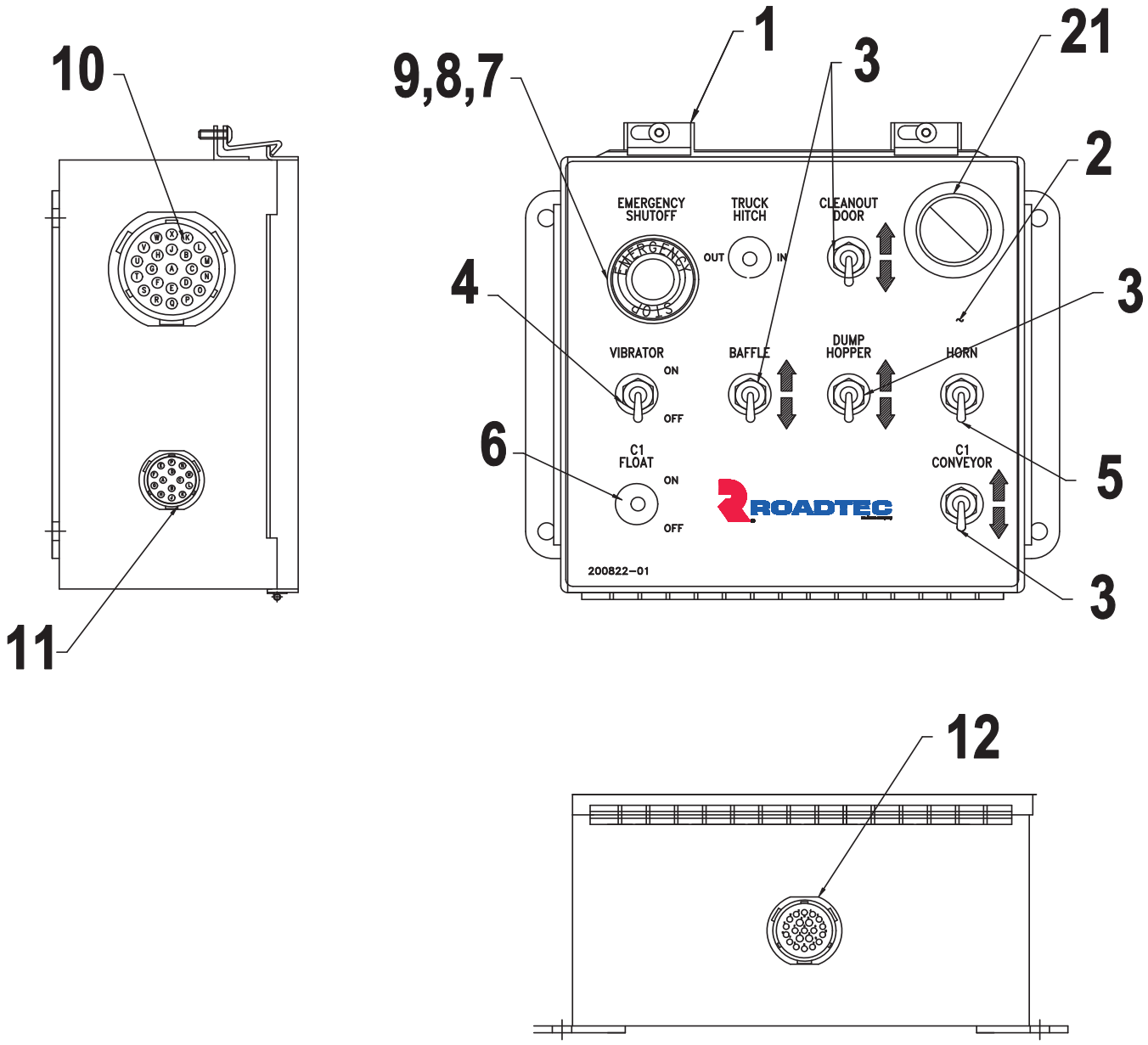


L.H. C-1 CONTROL BOX ASSEMBLY
(214262-01)

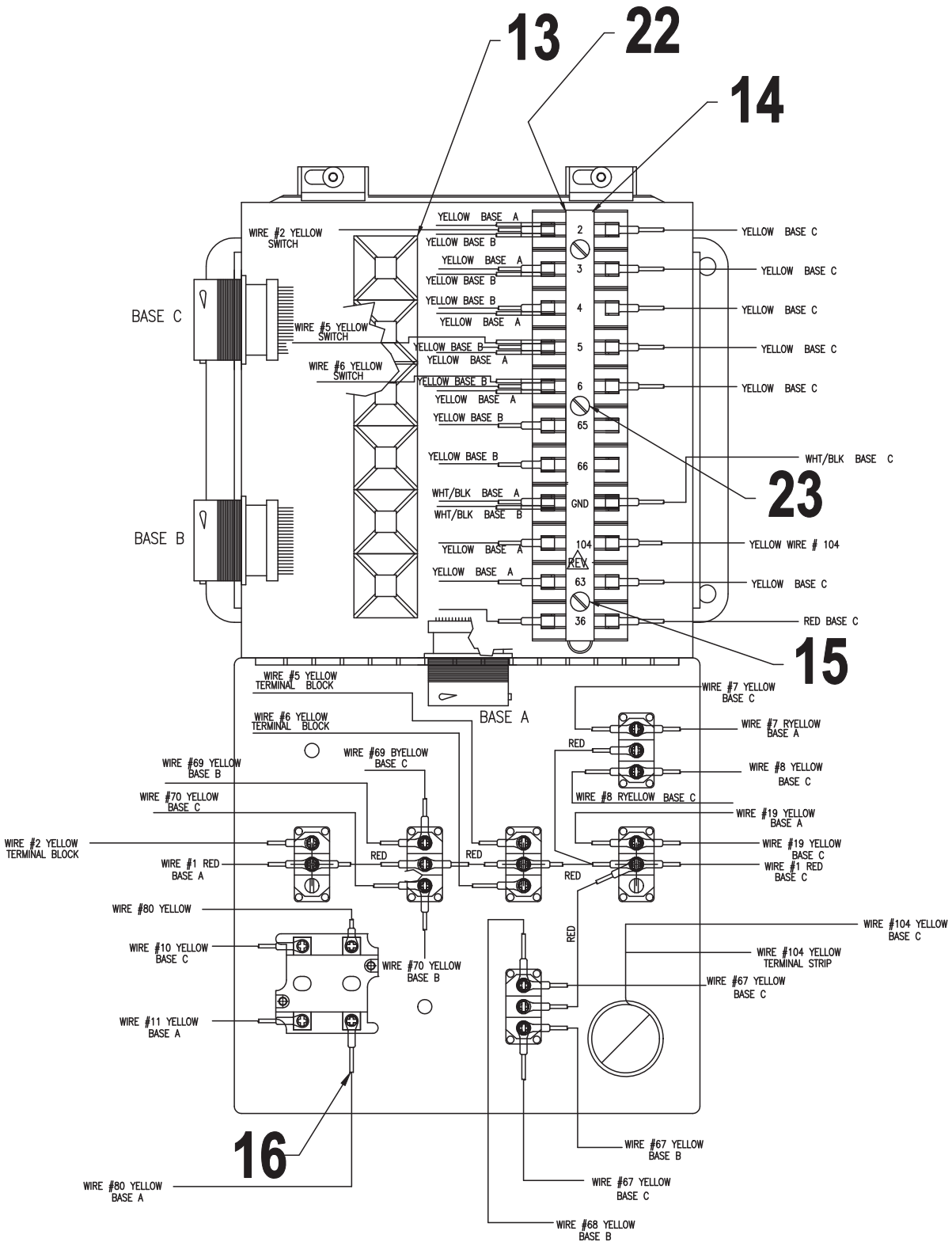
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214192-01	LH C-1 CONTROL BOX	1
2	200822-01	DECAL - C-1 CONTROL BOX	1
3	139471	TOGGLE SWITCH	4
4	13E68	TOGGLE SWITCH	1
5	97542	TOGGLE SWITCH	1
6	97944-04	HOLE PLUG - 1/2"	2
7	93251-04	SWITCH - EMERGENCY STOP	1
8	93250-04	EMERGENCY STOP CONTACT BLOCK	1
9	93251-04-C3	EMERGENCY STOP BUTTON	1
10	214221-02	PIG TAIL - C-1 CONTROL BOX CROSSOVER	1
11	93253	WIRE - TERMINAL RING 16 GA.	21
12	83856-04	WIRE TIE - 3/16" X 4" NYLON	16
13	126976	WIRE TIE - 3/16" X 5 1/2" NYLON	20
14	97976	ADHESIVE MOUNT	12
15	143317-04	DOME LIGHT	1

R.H. C-1 CONTROL BOX ASSEMBLY.
(215520-01)

NEXT PAGE



R.H. C-1 CONTROL BOX ASSEMBLY.
(215520-01)

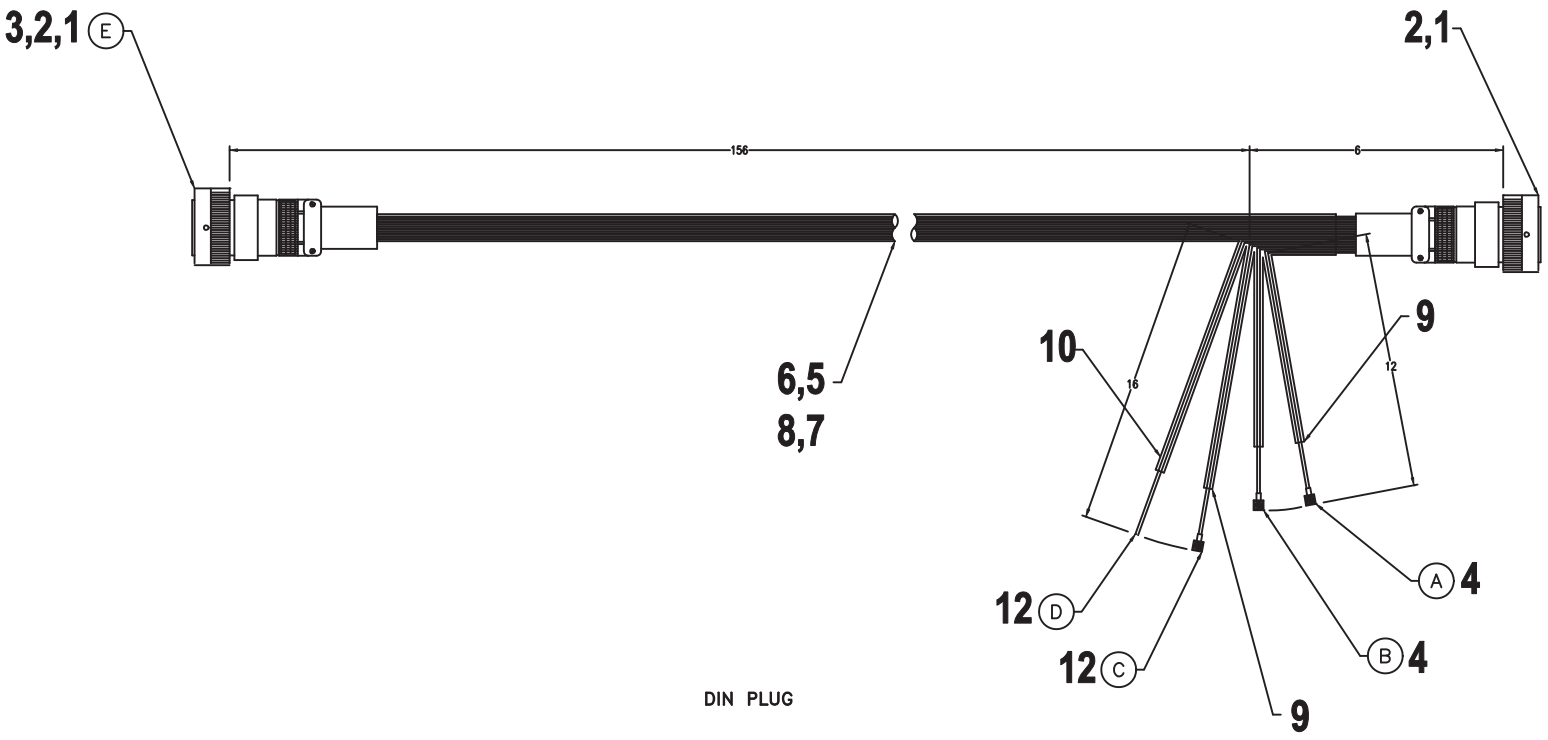


R.H. C-1 CONTROL BOX ASSEMBLY
(215520-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	214193-01	RH C-1 CONTROL BOX	1
2	214305-01	DECAL - C-1 CONTROL BOX	1
3	139471	TOGGLE SWITCH	4
4	13E68	TOGGLE SWITCH	1
5	97542	TOGGLE SWITCH	1
6	97944-04	HOLE PLUG - 1/2"	2
7	93251-04	SWITCH - EMERGENCY STOP	1
8	93250-04	EMERGENCY STOP CONTACT BLOCK	1
9	93251-04-C3	EMERGENCY STOP BUTTON	1
10	214221-02	PIG TAIL - C-1 CONTROL BOX CROSSOVER	1
11	215505-02	PIG TAIL - C-1 VALVE MANIFOLD	1
12	215555-02	PIG TAIL - RH C-1 CONTROL BOX	1
13	97976	ADHESIVE MOUNT	12
14	13C69	ELEC - TERMINAL BLOCK	11
15	210432-04	CONNECTORS AMP FEMALE 16 AWG	20
16	93253	WIRE - TERMINAL RING 16 GA.	30
17	83856-04	WIRE TIE - 3/16" X 4" NYLON	40
18	126976	WIRE TIE - 3/16" X 5 1/2" NYLON	15
19	38Z57	ELEC - TERMINAL FEMALE INSUL. SPADE	4
20	97735	ELEC - TERMINAL MALE INSUL. SPADE	4
21	143317-04	DOME LIGHT	1
22	149628-04	DATA PLATE - TERMINAL STRIP	1
23	135807-04	SLOT HD. SCREW - 10-32 X 1"	3

HARNESS - R.H. C-1 CONTROL BOX
(215556-01)

NEXT PAGE



KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION
A	BROWN	7	1	80504	DIN PLUG	C1 LIFT RAISE
	BLUE	GND	1	80504		C1 LIFT RAISE
B	BROWN	8	1	80504	DIN PLUG	C1 LIFT RAISE
	BLUE	GND	1	80504		
C	BROWN	63	1	80504		
	BLUE	GND	1	80504		
D	YELLOW	63				VALVE
	WHITE/BLACK	GND				VALVE
E	YELLOW	3	1	133746-04	DEUTSCH 16 AWG PINS	TRUCK HITCH IN
	YELLOW	19	1	133746-04	DEUTSCH 16 AWG PINS	HORN
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND
	YELLOW	80	1	133746-04	DEUTSCH 16 AWG PINS	12 VOLTS
	RED	1	1	133746-04	DEUTSCH 16 AWG PINS	12 VOLTS
	YELLOW	5	1	133746-04	DEUTSCH 16 AWG PINS	C1 DUMP HOPPER LOWER
	YELLOW	104	1	133746-04	DEUTSCH 16 AWG PINS	LIGHTS
	YELLOW	4	1	133746-04	DEUTSCH 16 AWG PINS	TRUCK HITCH OUT
	YELLOW	2	1	133746-04	DEUTSCH 16 AWG PINS	VIBRATOR
	YELLOW	7	1	133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	YELLOW	11	1	133746-04	DEUTSCH 16 AWG PINS	E-STOP
	RED	36	1	133746-04	DEUTSCH 16 AWG PINS	4 KW GENERATOR
	YELLOW	6	1	133746-04	DEUTSCH 16 AWG PINS	C1 DUMP HOPPER RAISE
	YELLOW	63	1	133746-04	DEUTSCH 16 AWG PINS	C1 FLOT
	YELLOW	8	1	133746-04	DEUTSCH 16 AWG PINS	C1 LIFT LOWER

PREVIOUS PAGE

HARNESS - R.H. C-1 CONTROL BOX
(215556-01)

23 PIN LAY-OUT

PIN	COLOR	WIRE #
A	YELLOW	3
B	YELLOW	19
C	WHITE/BLACK	GND
D	YELLOW	80
E	RED	1
F	YELLOW	5
G	YELLOW	104
H	YELLOW	4
J	YELLOW	2
K	YELLOW	11
L	YELLOW	6
M	YELLOW	63
N	YELLOW	8
O	YELLOW	7
P	RED	36
Q		
R		
S		
T		
U		
V		
W		
X		

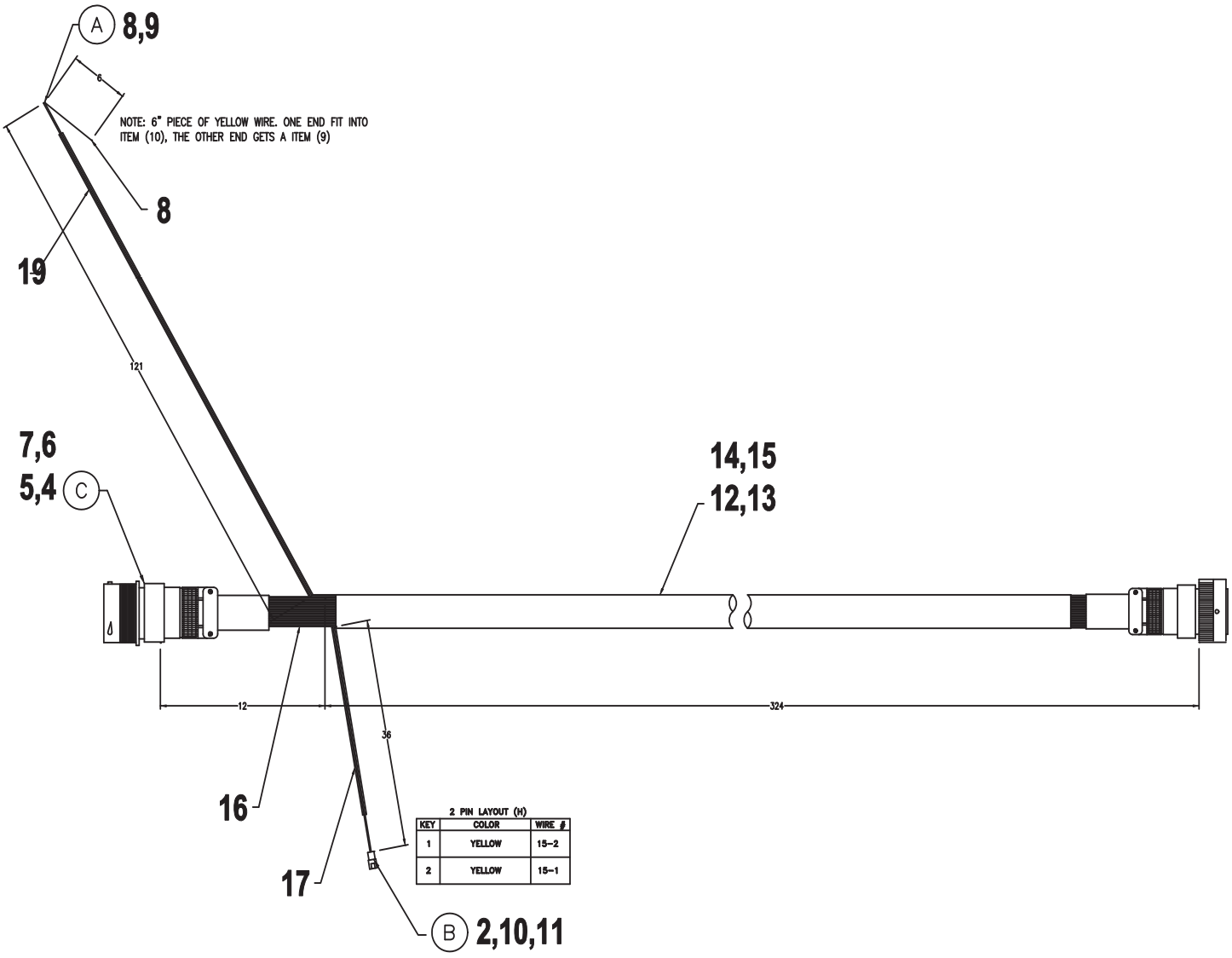
23 PIN LAY-OUT

PIN	COLOR	WIRE #
A	YELLOW	3
B	YELLOW	19
C	WHITE/BLACK	GND
D	YELLOW	80
E	RED	1
F	YELLOW	5
G	YELLOW	104
H	YELLOW	4
J	YELLOW	2
K	YELLOW	11
L	YELLOW	6
M	YELLOW	63
N	YELLOW	8
O	YELLOW	7
P	RED	36
Q	YELLOW	63
R	WHITE/BLACK	GND
S	BROWN	7
T	BLUE	GND
U	BROWN	8
V	BLUE	GND
W	BROWN	63
X	BLUE	GND

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211955-04	PLUG - 23 PIN DEUTSCH REVERSE PLUG W/ CLAMP	2
2	133746-04	DEUTSCH 16 AWG SOCKETS	38
3	133741-04	SEAL PLUGS	8
4	215557-04	DIN PLUG SINGLE-END CORDSET (MENCOM #VAC-220-00)	3
5			
6			
7			
8			
9			
10			
11			
12			
13		WIRE - 12 AWG RED (126-16800-5000-22)	672"
14		WIRE - 12 AWG WHITE/BLACK (126-12800-5000-90)	336"
15		WIRE - 16 AWG YELLOW (126-16800-5000-44)	5684"
16	98298	SPLIT LOOM - 1"	324"
17	35Z65	SPLIT LOOM - 3/4"	10"
18	65799	SPLIT LOOM - 3/8"	90"
19	95021	SPLIT LOOM - 1/4"	211"

HARNESS - (JUMPER) TO C-1 CONTROL BOX
(215509-01)

NEXT PAGE



KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION
A	YELLOW	19A	1	121538	FEMALE ELECTRICAL CONNECTOR	HORN
	YELLOW	19A	1	97735	FEMALE ELECTRICAL CONNECTOR	HORN
B	YELLOW	15-2	1	206398-04	DEUTSCH 2 PIN RECEPTACLE	C2 CLEANOUT DOOR LIMIT SWITCH
	YELLOW	15-1	1	206401-04	DEUTSCH WEDGE LOCK	
			2	137176-04	DEUTSCH 16 AWG PINS	
C	YELLOW	3	1	133746-04	DEUTSCH 16 AWG PINS	TRUCK HITCH IN
	YELLOW	19	1	133746-04	DEUTSCH 16 AWG PINS	HORN
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND
	YELLOW	80	1	133746-04	DEUTSCH 16 AWG PINS	12 VOLTS
	RED	1	1	133746-04	DEUTSCH 16 AWG PINS	12 VOLTS
	YELLOW	5	1	133746-04	DEUTSCH 16 AWG PINS	C1 DUMP HOPPER LOWER
	YELLOW	104	1	133746-04	DEUTSCH 16 AWG PINS	LIGHTS
	YELLOW	4	1	133746-04	DEUTSCH 16 AWG PINS	TRUCK HITCH OUT
	YELLOW	2	1	133746-04	DEUTSCH 16 AWG PINS	VIBRATOR
	YELLOW	7	1	133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	YELLOW	11	1	133746-04	DEUTSCH 16 AWG PINS	E-STOP
	RED	36	1	133746-04	DEUTSCH 16 AWG PINS	4 KW GENERATOR
	YELLOW	6	1	133746-04	DEUTSCH 16 AWG PINS	C1 DUMP HOPPER RAISE
	YELLOW	63	1	133746-04	DEUTSCH 16 AWG PINS	C1 FLOT
	YELLOW	8	1	133746-04	DEUTSCH 16 AWG PINS	C1 LIFT LOWER
	YELLOW	7	1	133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND
	YELLOW	8		133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND
	YELLOW	63		133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND
	YELLOW	63		133746-04	DEUTSCH 16 AWG PINS	C1 LIFT RAISE
	WHITE/BLACK	GND	1	133746-04	DEUTSCH 16 AWG PINS	GROUND

ROADTEC an Astec Industries Company

PREVIOUS PAGE

HARNESS - (JUMPER) TO C-1 CONTROL BOX (215509-01)

23 PIN LAY-OUT

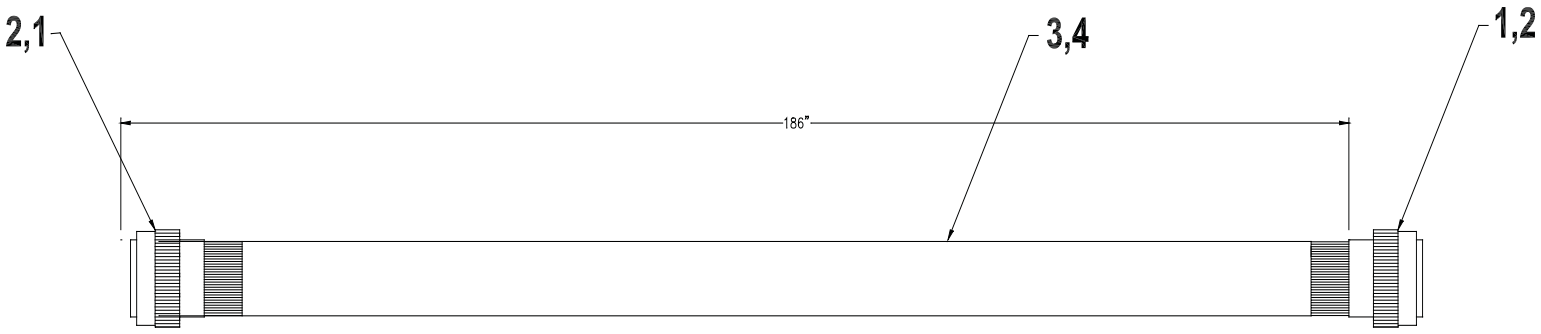
PIN	COLOR	WIRE #
A	YELLOW	3
B	YELLOW	19
C	WHITE/BLACK	GND
D	YELLOW	80
E	RED	1
F	YELLOW	5
G	YELLOW	104
H	YELLOW	4
J	YELLOW	2
K	YELLOW	11
L	YELLOW	6
M	YELLOW	63
N	YELLOW	8
O	YELLOW	7
P	RED	36
Q	YELLOW	63
R	WHITE/BLACK	GND
S	YELLOW	7
T	WHITE/BLACK	GND
U	YELLOW	8
V	WHITE/BLACK	GND
W	YELLOW	63
X	WHITE/BLACK	GND

31 PIN LAYOUT

PIN	COLOR	WIRE #
1	YELLOW	3
2	YELLOW	19A
3	YELLOW	19A
4	YELLOW	19
5	YELLOW	7
6	WHITE/BLACK	GND
7	YELLOW	8
8	WHITE/BLACK	GND
9	YELLOW	63
10	WHITE/BLACK	GND
11	WHITE/BLACK	GND
12	YELLOW	80
13	RED	1
14	YELLOW	5
15	YELLOW	104
16	YELLOW	4
17	YELLOW	2
18	YELLOW	11
19	YELLOW	6
20	YELLOW	63
21	YELLOW	8
22	YELLOW	15-2
23	YELLOW	15-1
24	YELLOW	7
25	RED	36
26	YELLOW	63
27	WHITE/BLACK	GND
28		
29		
30		
31		

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	211959-04	PLUG - 31 PIN DEUTSCH REVERSE W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PIN	27
3	133741-04	SEAL PLUGS	4
4	211954-04	DEUTSCH 23 PIN REVERSE RECEPTACLE	1
5	133746-04	DEUTSCH 16 AWG SOCKETS	23
6	211962-04	DEUTSCH METAL NUT	1
7	211963-04	DEUTSCH LOCK NUT	1
8	97735	FEMALE CONNECTOR 16 AWG	2
9	121538	FEMALE CONNECTOR 12 AWG	1
10	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
11	209401-04	DEUTSCH WEDGE LOCK	1
12		WIRE - 12 AWG RED (126-16800-5000-22)	678"
13		WIRE - 12 AWG WHITE/BLACK (126-16800-5000-90)	1695"
14		WIRE - 16 AWG YELLOW (126-16800-5000-44)	5424"
15	98298	SPLIT LOOM - 1"	339"
16	25Z65	SPLIT LOOM - 3/4"	10"
17	95021	SPLIT LOOM - 1/4"	175"

HARNESS, C-1 CONTROL BOX CROSSOVER
(214222-02)



23 PIN LAY–OUT DETAIL

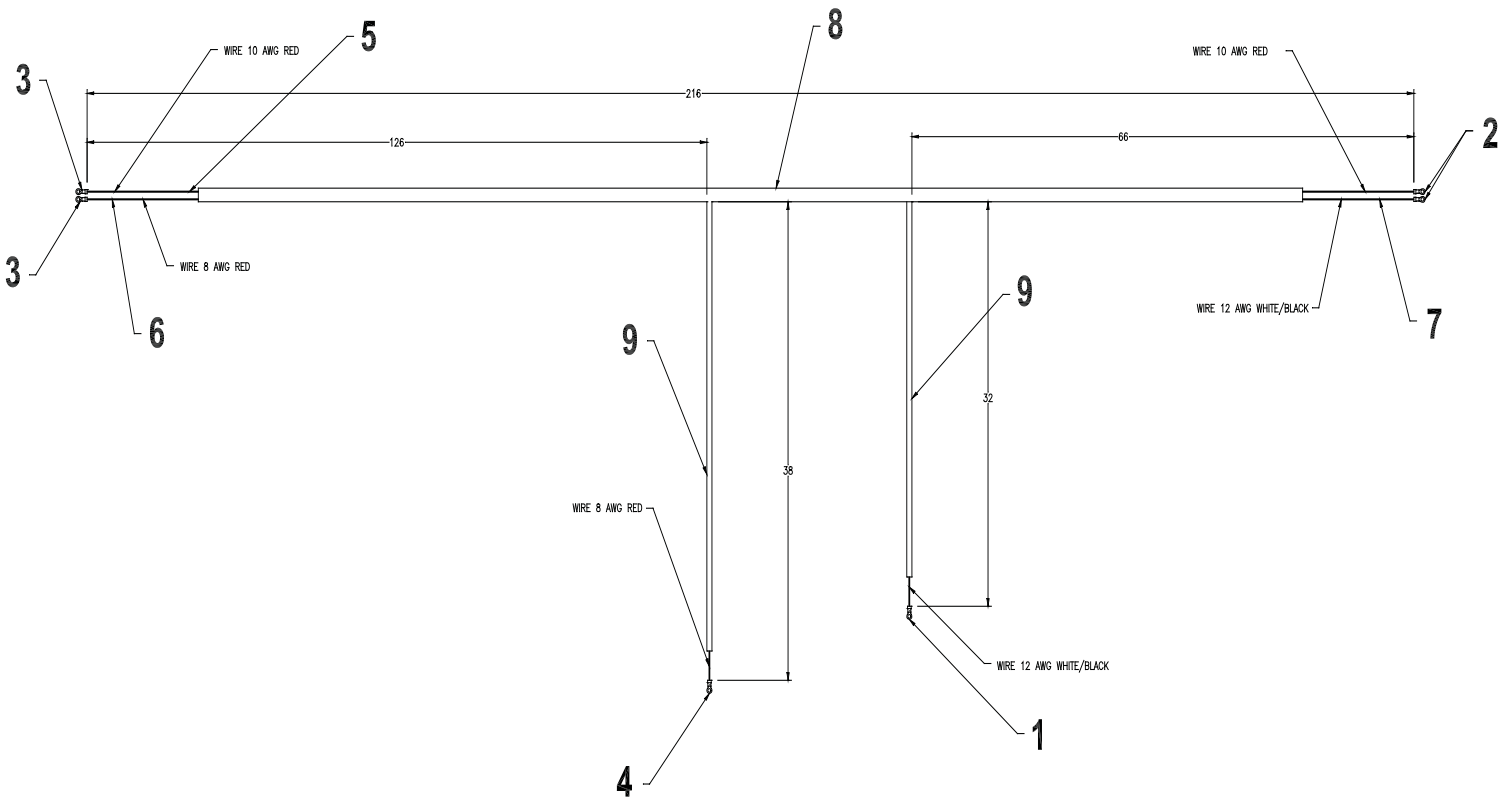
PIN	COLOR	WIRE #	FUNCTION
A	WHITE	3	TRUCK HITCH IN
B	ORANGE	6	C1 DUMP HOPPER RAISE
C	BLACK/RED	1	12 VOLT
D	BLUE/BLACK	67	C1 CLEAN OUT
E	ORANGE/BLACK	68	C1 CLEAN OUT
F	RED/BLACK	8	C1 LIFT LOWER
G	BLACK	GND	GROUND
H	WHITE/BLACK	80	12 VOLT
J	RED	2	VIBRATOR
K	BLUE	5	C1 DUMP HOPPER LOWER
L	ORANGE/RED	36	12 VOLT
M	GREEN	4	TRUCK HITCH OUT
N	WHITE/RED	104	LIGHT
O	BLUE/WHITE	69	C1 BAFFLE RAISE
P	GREEN/WHITE	70	C1 BAFFLE LOWER
Q	RED/WHITE	19	HORN
R	BLACK/WHITE	7	C1 LIFT RAISE
S	GREEN/BLACK	10	E–STOP
T	BLUE/RED	63	C1 FLOT
U			
V			
W			
X			

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211953-04	DEUTSCH 23 PIN PLUG W/ CLAMP	2
2	133746-04	DEUTSCH 16-18 AWG SOCKET	38
3	133741-01	DEUTSCH SEALING PLUG	8
4	84320-04	WIRE 16 AWG 19 CONDUCTOR	186"
5	98298	SPLIT LOOM - 1"	186"

BATTERY / ISO SWITCH SUB-ASSY. (227507-02)

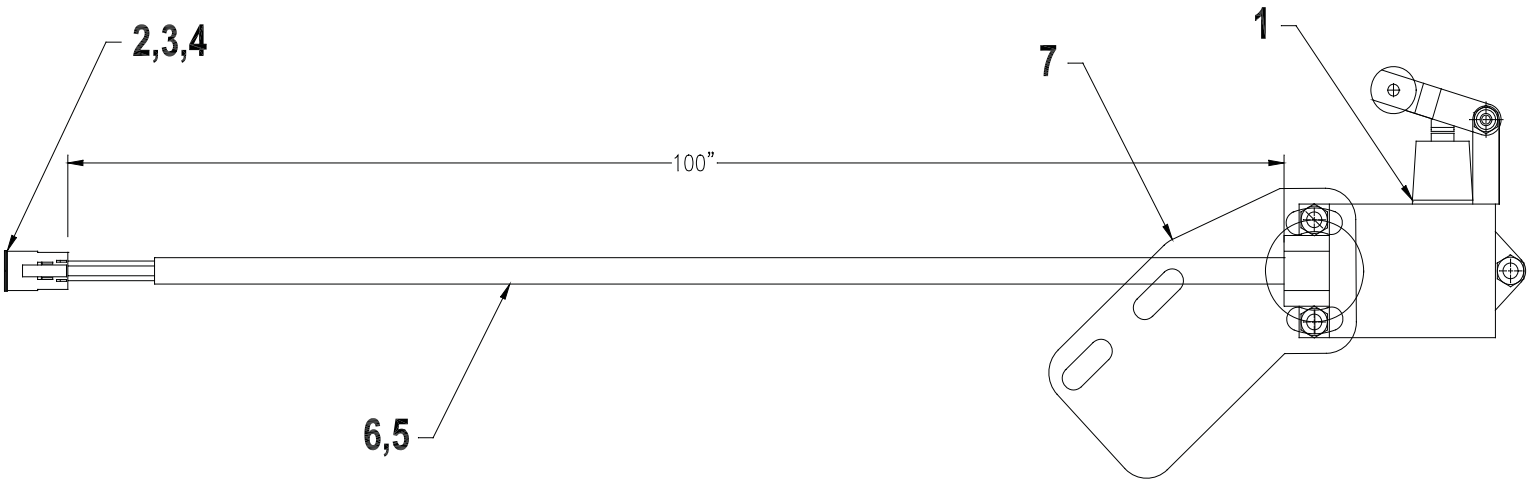
ITEM #	PART NO.	DESCRIPTION	QTY.
1	11S35	BATTERY - WET CHARGE 4D 12V	2
2	130644	SWITCH - BATTERY ISOLATION	2
3	146264-04	BASE - FUSIBLE LINK	3
4	146263-04	FUSIBLE LINK - 100 AMP	3
5	20Z54	CIRCUIT BREAKER - 60 AMP	1
6	90930-04	CIRCUIT BREAKER - 40 AMP	1
7	13E68	SWITCH - TOGGLE	2
8	203703-04	BATTERY CABLE - POSITIVE TO ISO SWITCH (24V)	REF
9	146128-04	BATTERY CABLE - NEGATIVE TO ISO SWITCH	REF
10	146125-04	BATTERY CABLE - POSITIVE TO ISO SWITCH (12V)	REF
11	203707-04	BATTERY CABLE - NEGATIVE TO STARTER	REF
12	203708-04	BATTERY CABLE - ISO SWITCH TO STARTER	REF
13	203709-04	BATTERY CABLE - STARTER TO MACHINE GROUND	REF
14	146298-04	BATTERY CABLE - ISO SWITCH TO FUSIBLE LINK	REF
15	146130-04	WIRE HARNESS - 60 AMP BREAKER	REF
16	146132-04	WIRE HARNESS - ALTERNATOR	REF
17	84332	HEX BOLT - 3/8-16 X 1"	1
18	83114	HEX BOLT - 1/4-20 X 1/2"	4
19	135807-04	SCREW - 10-32 X 1"	2
20	90101	SCREW - 10-32 X 3/4	6
21	83056	LOCK WASHER - 3/8"	1
22	139702-04	STAR WASHER - 3/8"	1
23	83056	FLAT WASHER - 1/4"	4
24	92552	FLAT WASHER - #10	22
25	90103	LOCK WASHER - #10	12
26	90102	HEX NUT - 10-32	12
27	138409-04	HOLE PLUG - 7/8" DIA.	1
28	136784-04	SWITCH - TOGGLE	1
29	97490-C1	SWITCH COVER	2
30	215298-04	BATTERY CABLE - FUSIBLE LINK TO ISO SWITCH	REF
31	215098-04	BATTERY CABLE - TOGGLE SWITCH TO BATTERY NEGATIVE	REF
32	217454-04	POWER CABLE - ISO SWITCH TO FUSIBLE LINK	REF
33	217455-04	POWER CABLE - ENGINE SOLENOID TO FUSIBLE LINK	REF
34	146287-04	FUSIBLE LINK - 150 AMP	2
35			

HARNESS, MAIN BREAKER & WASHDOWN
(203487-01)



REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	128218	TERMINAL 1/4" RING	1
2	90554	RING TERMINAL #10	2
3	90553	RING TERMINAL 1/4"	2
4	128219	RING TERMINAL 5/16"	1
5	95019	WIRE - 10 AWG BLACK	216"
6	95018	WIRE - 8 AWG RED	164"
7	87856-04	WIRE - 12 AWG WHITE	98"
8	95021	SPLIT LOOM - 1/4"	70"
9	95799	SPLIT LOOM - 3/8"	216"

C-2 CLEAN-OUT DOOR LIMIT SWITCH & PIG TAIL
(214279-03)



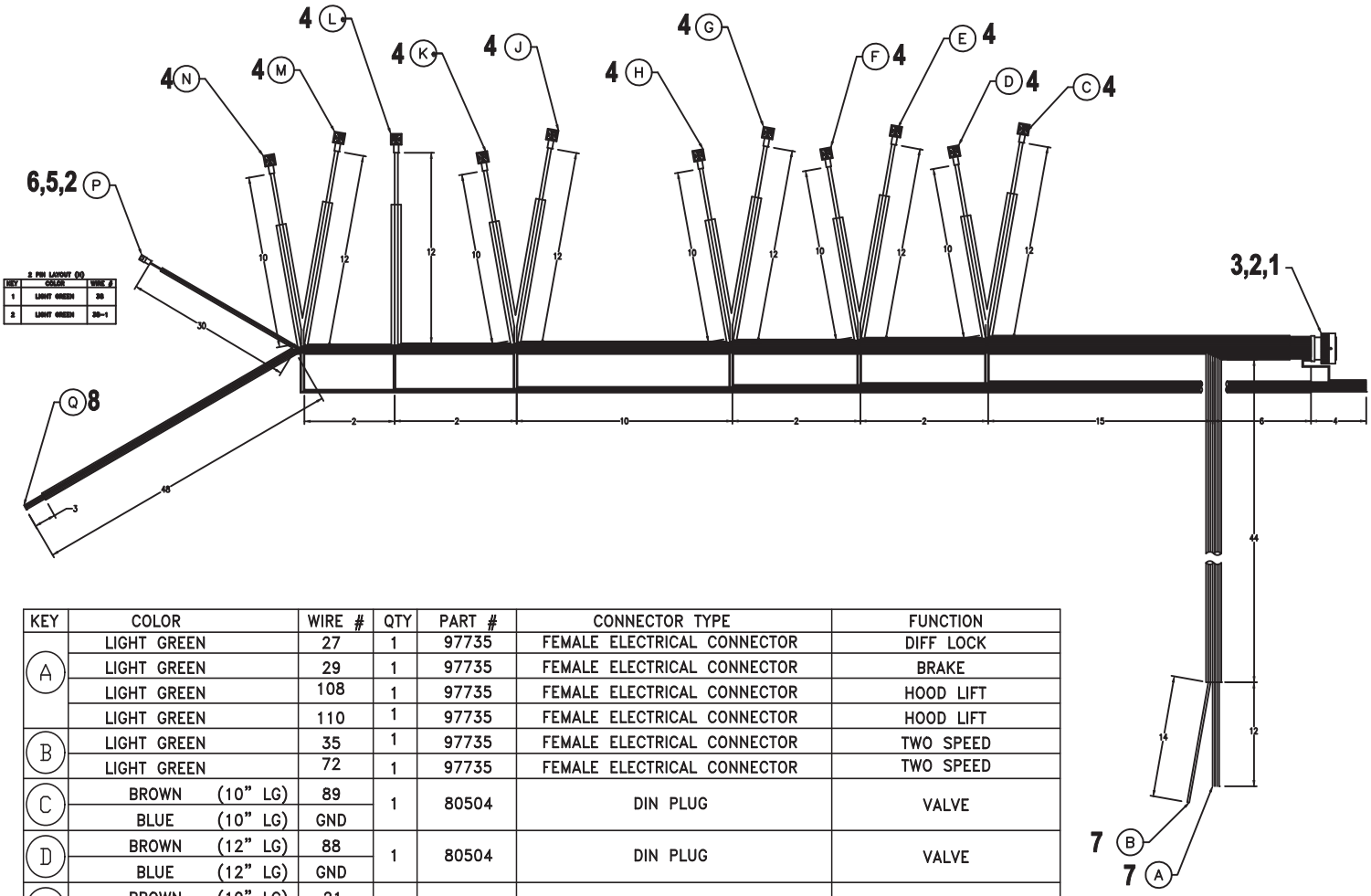
2 PIN LAYOUT (H)

KEY	COLOR	WIRE #
A	BLACK	15–2
B	RED	15–1

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	92023-04	LIMIT SWITCH RIGHT HAND	1
2	206399-04	DEUTSCH 2 PIN PLUG	1
3	133746-04	DEUTSCH SOCKETS 16 AWG	2
4	206402-04	DEUTSCH LOCKING WEDGE	1
5	84316-04	WIRE - 2 CONDUCTOR 16 AWG	104"
6	95021	SPLIT LOOM - 1/4"	94"
7	148168-04	LIMIT SWITCH BRACKET C-2 CLEAN OUT DOOR	1
8	90763	HEX BOLT - 1/4-20 UNC X 1 1/4"	4
9	89772	HEX NUT - 1/4-20 UNC	4
10	84444	FLAT WASHER - 1/4"	8
11	83065	LOCK WASHER - 1/4"	4

HARNESS - VALVE STACK
(215514-01)

NEXT PAGE



KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION
A	LIGHT GREEN	27	1	97735	FEMALE ELECTRICAL CONNECTOR	DIFF LOCK
	LIGHT GREEN	29	1	97735	FEMALE ELECTRICAL CONNECTOR	BRAKE
	LIGHT GREEN	108	1	97735	FEMALE ELECTRICAL CONNECTOR	HOOD LIFT
	LIGHT GREEN	110	1	97735	FEMALE ELECTRICAL CONNECTOR	HOOD LIFT
B	LIGHT GREEN	35	1	97735	FEMALE ELECTRICAL CONNECTOR	TWO SPEED
	LIGHT GREEN	72	1	97735	FEMALE ELECTRICAL CONNECTOR	TWO SPEED
C	BROWN (10" LG)	89	1	80504	DIN PLUG	VALVE
	BLUE (10" LG)	GND				
D	BROWN (12" LG)	88	1	80504	DIN PLUG	VALVE
	BLUE (12" LG)	GND				
E	BROWN (10" LG)	21	1	80504	DIN PLUG	LIFT & SWING
	BLUE (10" LG)	GND				
F	BROWN (12" LG)	20	1	80504	DIN PLUG	LIFT & SWING
	BLUE (12" LG)	GND				
G	BROWN (10" LG)	23	1	80504	DIN PLUG	LIFT & SWING
	BLUE (10" LG)	GND				
H	BROWN (12" LG)	22	1	80504	DIN PLUG	LIFT & SWING
	BLUE (12" LG)	GND				
J	BROWN (10" LG)	17	1	80504	DIN PLUG	FLOW GATE
	BLUE (10" LG)	GND				
K	BROWN (12" LG)	16	1	80504	DIN PLUG	FLOW GATE
	BLUE (12" LG)	GND				
L	BROWN	18	1	80504	DIN PLUG	GENERATOR VALVE
	BLUE	GND				
M	BROWN (10" LG)	14	1	80504	DIN PLUG	FLOW GATE
	BLUE (10" LG)	GND				
N	BROWN (12" LG)	13	1	80504	DIN PLUG	FLOW GATE
	BLUE (12" LG)	GND				
P	LIGHT GREEN	38-2	1	206395-04	DEUTSCH 2 PIN RECEPTACLE	LIMIT SWITCH
			1	209401-04	DEUTSCH WEDGE LOCK	
	LIGHT GREEN	38	2	137176-04	DEUTSCH 16 AWG PINS	
Q	RED	1	1	90990-04	RING TERMINAL 16 GAU	SWITCH
	RED	24	1	90990-04	RING TERMINAL 16 GAU	SWITCH
	LIGHT GREEN	88	1	90990-04	RING TERMINAL 16 GAU	SWITCH
	LIGHT GREEN	89	1	90990-04	RING TERMINAL 16 GAU	SWITCH
	LIGHT GREEN	107	1	90990-04	RING TERMINAL 16 GAU	SWITCH

PREVIOUS PAGE

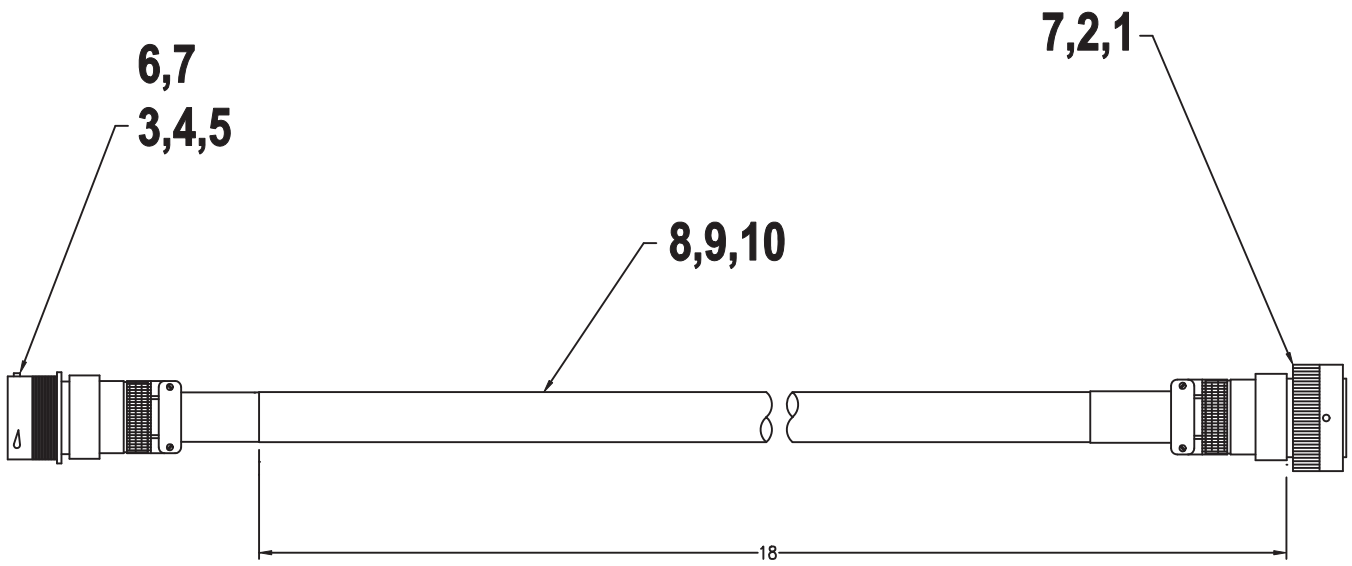
HARNESS - VALVE STACK
(215514-01)

31 PIN LAYOUT

PIN	COLOR	WIRE #
1	BROWN	20
2	BROWN	14
3	LIGHT GREEN	88
4	LIGHT GREEN	27
5	RED	1
6	LIGHT GREEN	29
7	BROWN	22
8	BROWN	16
9	BROWN	23
10	BROWN	13
11	BROWN	89
12	BROWN	21
13	LIGHT GREEN	38-2
14	BROWN	88
15	LIGHT GREEN	89
16	BROWN	18
17	LIGHT GREEN	35
18	BROWN	17
19	LIGHT GREEN	108
20	LIGHT GREEN	72
21	LIGHT GREEN	107
22	WHITE/BLACK	GND
23	RED	24
24	LIGHT GREEN	38
25	LIGHT GREEN	110
26	WHITE/BLACK	GND
27	SEALING PLUG	
28	SEALING PLUG	
29	SEALING PLUG	
30	SEALING PLUG	
31	SEALING PLUG	

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211959-04	DEUTSCH 31 PIN REVERSING PLUG	1
2	137176-04	DEUTSCH 16 AWG PINS	28
3	133741-04	DEUTSCH SEALING PLUG	5
4	215557-04	DIN PLUG SINGLE-CORD SET (VAC-220-00 MENCOM)	11
5	206398-04	DEUTSCH 2 PIN RECEPTACLE	1
6	206401-04	DEUTSCH WEDGE LOCK	1
7	90990-04	RING TERMINAL 16 AWG	5
8	97735	FEMALE ELECTRICAL CONNECTOR	6
9	90990-04	RING TERMINAL 16 AWG	5
10		WIRE 16 AWG RED (126-16800-5000-22)	187"
11		WIRE 16 AWG LIGHT GREEN (126-16800-5000-55L)	2894"

HARNESS, C-1 VALVE STACK
(215510-02)

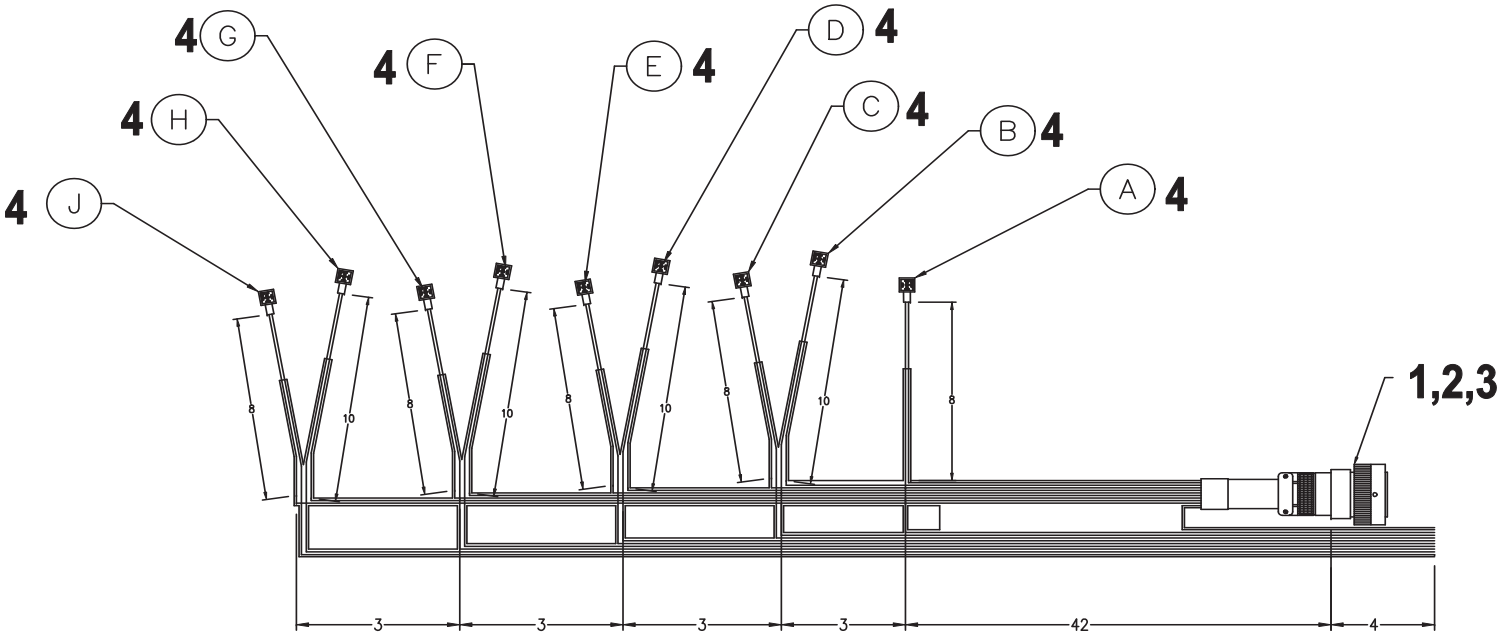


14 PIN LAY-OUT DETAIL

PIN	COLOR	WIRE #
A	YELLOW	4
B	YELLOW	3
C	YELLOW	2
D	YELLOW	69
E	YELLOW	6
F	YELLOW	5
G	YELLOW	67
H	YELLOW	70
J	YELLOW	68
K	WHITE/BLACK	GND
L		
M		
N		
P		

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211945-04	DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PIN	10
3	211944-04	DEUTSCH 14 PIN REVERSE RECEPTACLE	1
4	133746-04	DEUTSCH 16 AWG SOCKETS	10
5	219060-04	NUT - METAL SIZE 18	1
6	219061-04	LOCK WASHER - METAL SIZE 18	1
7	133741-04	DEUTSCH SEALING PLUG	8
8		WIRE 16 AWG YELLOW (126-16800-5000-44)	162"
9		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	18"
10	35Z65	SPLIT LOOM - 3/4"	60"

HARNESS, C-1 VALVE STACK
(215511-02)



NOTE: ALL BLUE GROUND WIRE ARE 4" LONGER THAN THAN DIN PLUG BROWN WIRE & CONNECT TO GROUND STUD ON DEUTSCH 14 PIN PLUG BRACKET

NOTE: PIN K IS GROUND WIRE (WHITE/BLACK). IT IS 6" LONG

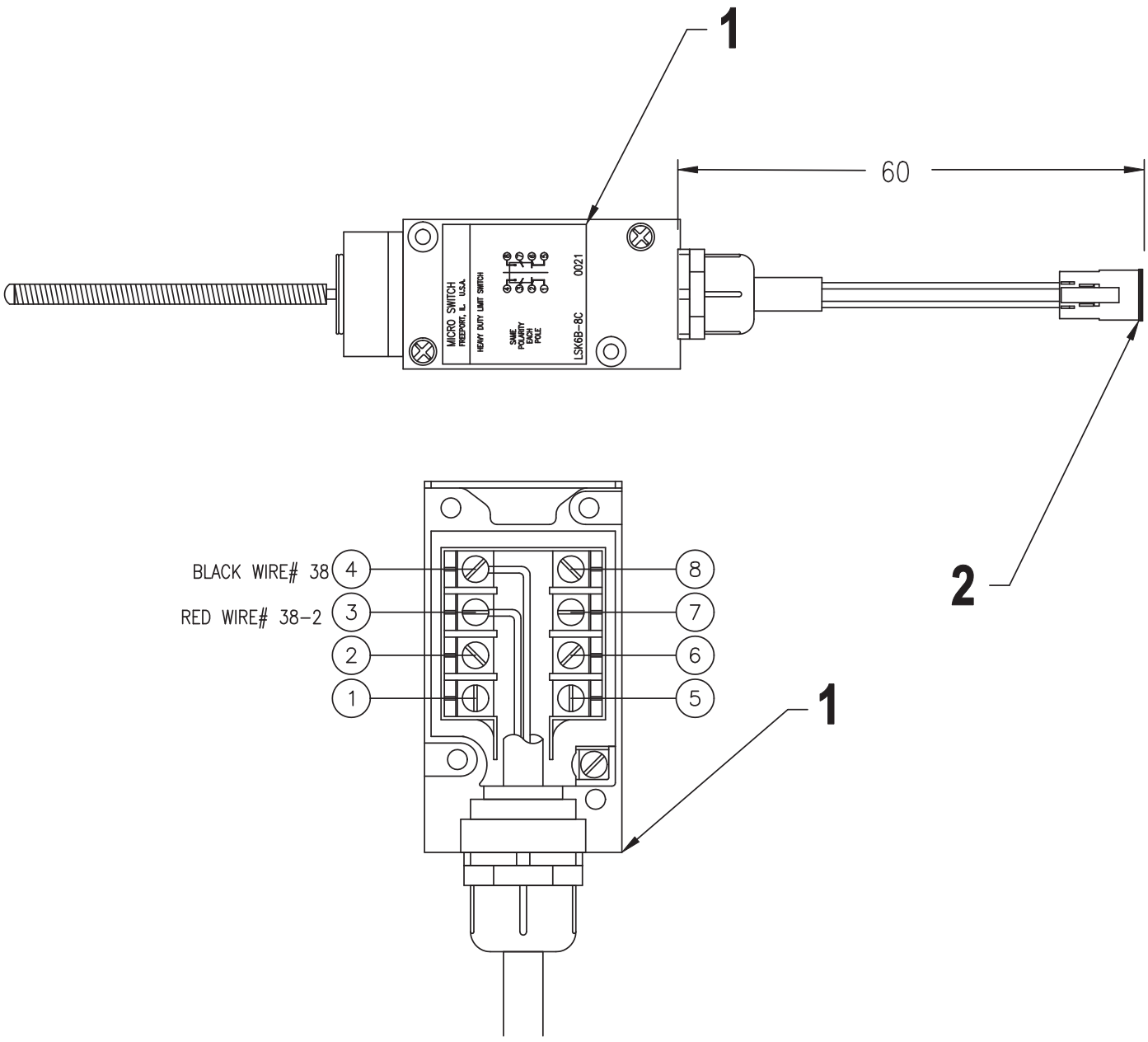
KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION	LENGTH
A	BROWN	2	1	80504	DIN PLUG SINGLE ENDED CORDSET	VIBRATOR	50
	BLUE	GND	1				54
B	BROWN	69	1	80504	DIN PLUG SINGLE ENDED CORDSET	BAFFLE	53
	BLUE	GND	1				57
C	BROWN	70	1	80504	DIN PLUG SINGLE ENDED CORDSET	BAFFLE	55
	BLUE	GND	1				59
D	BROWN	67	1	80504	DIN PLUG SINGLE ENDED CORDSET	CLEAN OUT	56
	BLUE	GND	1				61
E	BROWN	68	1	80504	DIN PLUG SINGLE ENDED CORDSET	CLEAN OUT	58
	BLUE	GND	1				62
F	BROWN	6	1	80504	DIN PLUG SINGLE ENDED CORDSET	DUMP HOOPER	59
	BLUE	GND	1				63
G	BROWN	5	1	80504	DIN PLUG SINGLE ENDED CORDSET	DUMP HOOPER	61
	BLUE	GND	1				65
H	BROWN	3	1	80504	DIN PLUG SINGLE ENDED CORDSET	TRUCK HITCH	62
	BLUE	GND	1				66
J	BROWN	4	1	80504	DIN PLUG SINGLE ENDED CORDSET	TRUCK HITCH	64
	BLUE	GND	1				68

14 PIN LAY-OUT DETAIL

PIN	COLOR	WIRE #
A	BROWN	4
B	BROWN	3
C	BROWN	2
D	BROWN	69
E	BROWN	6
F	BROWN	5
G	BROWN	67
H	BROWN	70
J	BROWN	68
K	WHITE/BLACK	GND
L		
M		
N		
P		

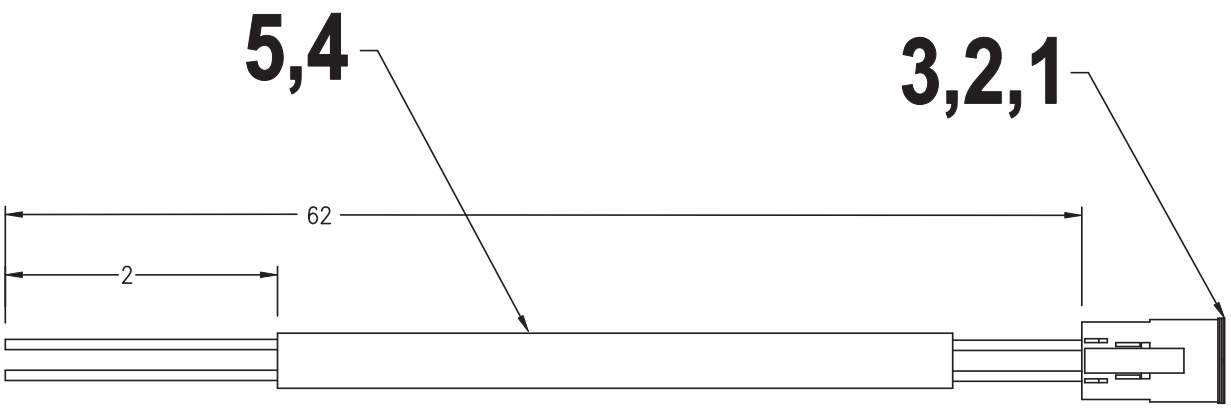
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211945-04	DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PIN	10
3	133741-04	DEUTSCH SEALING PLUG	4
4	215557-04	DIN PLUG - SINGLE END CORDSET (MENCO VAC - 200-30)	9
5		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	6"
6	98298	SPLIT LOOM - 1"	9"
7	98298	SPLIT LOOM - 3/4"	6"
8	123097	SPLIT LOOM - 5/8"	6"
9	1390502	SPLIT LOOM - 1/2"	9"

LIMIT SWITCH W/ WOBBLE LEVER
(214563-03)



REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	145215-04	LIMIT SWITCH W/ WOBBLE LEVER	1
2	214541-03	WIRE HARNESS - LIMIT SWITCH W/ WOBBLE	REF

HARNESS- LIMIT SWITCH W/ WOBBLE LEVER
(214541-03)



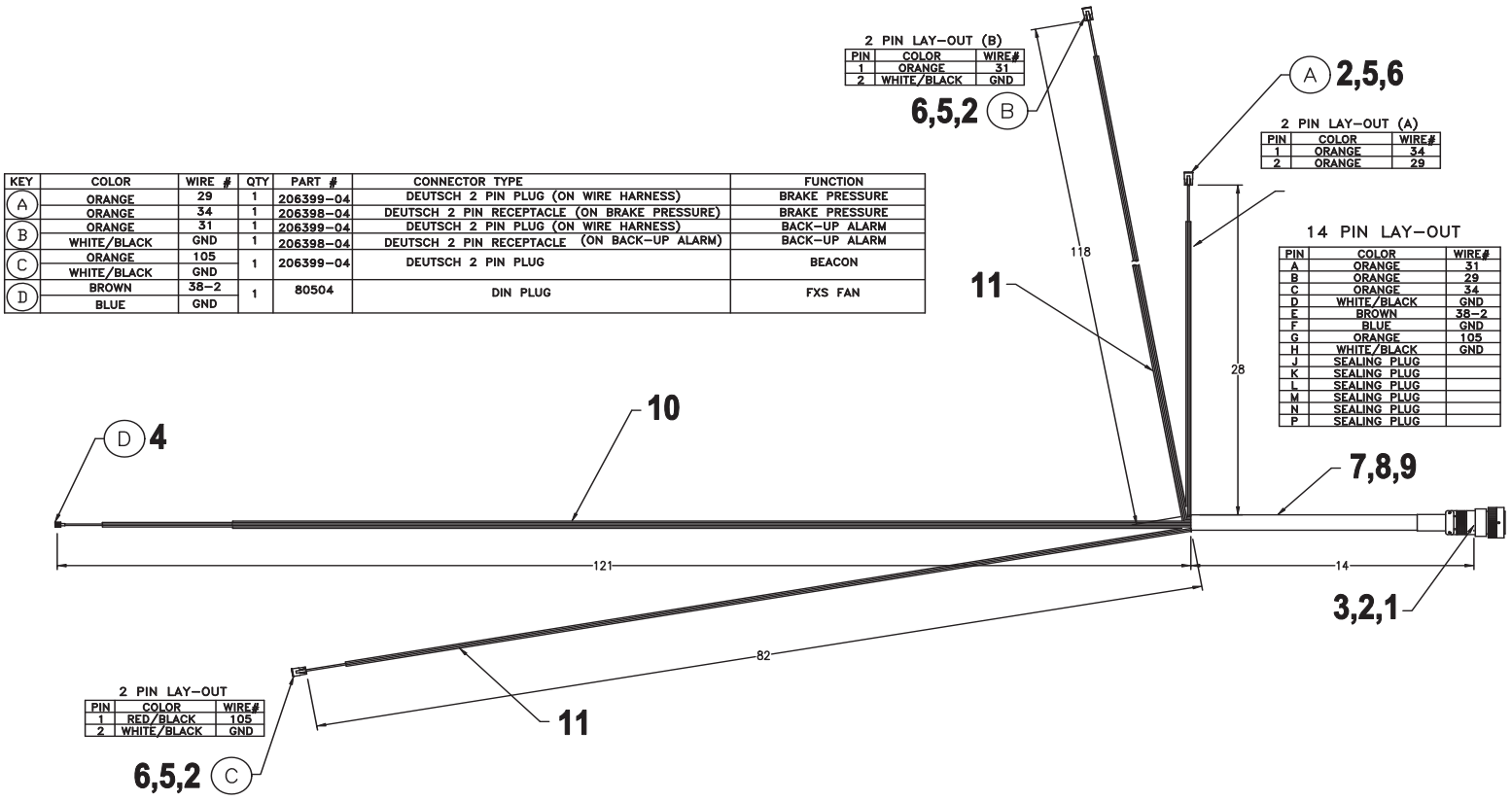
SLUG WIRE ENDS

2 PIN LAYOUT

KEY	COLOR	WIRE #
1	LIGHT GREEN	38-2
2	LIGHT GREEN	38

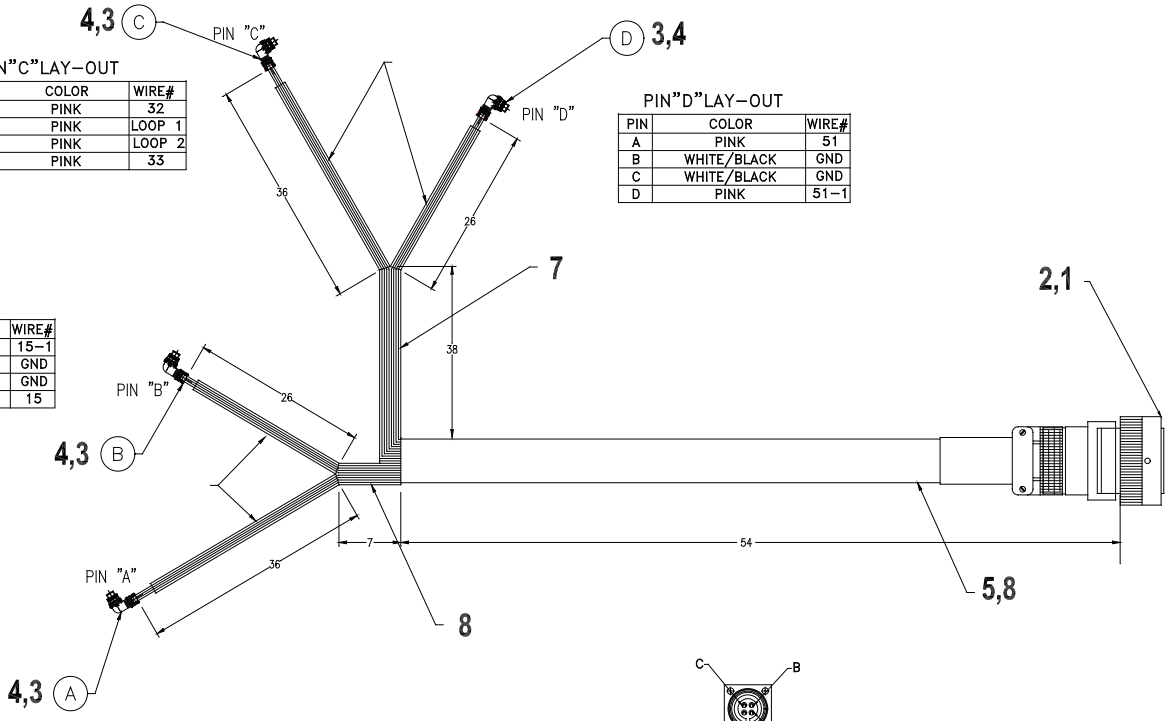
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	206399-04	DEUTSCH 2 PIN PLUG	1
2	133746-04	DEUTSCH SOCKETS 16 AWG	2
3	206402-04	DEUTSCH LOCKING WEDGE	1
4		WIRE 16 AWG LIGHT GREEN (126-16800-5000-55L)	124"
5	95021	SPLIT LOOM - 1/4"	58"

HARNESS- FXS, BEACON, BACK-UP, & BRAKE
(215507-02)



REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211947-04	DEUTSCH 14 PIN METAL PLUG W/ CLAMP	1
2	133746-04	DEUTSCH SOCKETS 16 AWG	16
3	133741-04	DEUTSCH SEALING PLUG 16 AWG	4
4	215558-04	DIN PLUG SINGLE-END CORD (MENCOM #VAC-520-05)	1
5	206399-04	DEUTSCH 2 PIN PLUG	3
6	206402-04	DEUTSCH SECONDARY LOCK	3
7		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	228"
8		WIRE 16 AWG ORANGE (126-16800-5000-33)	312"
9	35Z65	SPLIT LOOM - 3/4"	14"
10	95020	SPLIT LOOM - 1/2"	97"
11	95021	SPLIT LOOM - 1/4"	211"

HARNESS, PUMP
(214212-01)



PIN"C"LAY–OUT

PIN	COLOR	WIRE#
A	PINK	32
B	PINK	LOOP 1
C	PINK	LOOP 2
D	PINK	33

PIN"D"LAY–OUT

PIN	COLOR	WIRE#
A	PINK	51
B	WHITE/BLACK	GND
C	WHITE/BLACK	GND
D	PINK	51–1

PIN"B"LAY–OUT

PIN	COLOR	WIRE#
A	PINK	15–1
B	WHITE/BLACK	GND
C	WHITE/BLACK	GND
D	PINK	15

90° AMPHENOL
NOTCH LOCATION
TYP 4 PLCS

PIN"A"LAY–OUT

PIN	COLOR	WIRE#
A	PINK	52
B	WHITE/BLACK	GND
C	WHITE/BLACK	GND
D	PINK	52–1

KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION
A	WHITE/BLACK	GND	1	92756–04 86465–04	ELEC * 4–PIN CONNECTOR ELEC * CABLE CLAMP–5 PIN	C3 EXTRA WHITE/BLACK WIRE IS 11"LONG & SOLDER TO OTHER WHITE/BLACK WIRE
	PINK	52	1			
	PINK	52–1	1			
	WHITE/BLACK	GND				
B	PINK	15	1	92756–04 86465–04	ELEC * 4–PIN CONNECTOR ELEC * CABLE CLAMP–5 PIN	C2 EXTRA BLUE WIRE IS 11"LONG & SOLDER TO OTHER BLUE WIRE
	WHITE/BLACK	GND	1			
	PINK	15–1	1			
	WHITE/BLACK	GND				
C	PINK	32	1	92756–04 86465–04	ELEC * 4–PIN CONNECTOR ELEC * CABLE CLAMP–5 PIN	TRAVEL PINK WIRE LOOP 1 & LOOP 2 IS 11"LONG & SOLDER TO EACH OTHER
	PINK	LOOP 1	1			
	PINK	33	1			
	PINK	LOOP 2	1			
D	PINK	51–1	1	92756–04 86465–04	ELEC * 4–PIN CONNECTOR ELEC * CABLE CLAMP–5 PIN	C1 EXTRA BLACK WIRE IS 11"LONG & SOLDER TO OTHER BLACK WIRE
	PINK	51	1			
	WHITE/BLACK	GND	1			
	WHITE/BLACK	GND				

KEY	COLOR	WIRE#
A	WHITE/BLACK	GND
B	PINK	51
C	WHITE/BLACK	GND
D	WHITE/BLACK	GND
E	WHITE/BLACK	GND
F	PINK	15
G	WHITE/BLACK	GND
H	WHITE/BLACK	GND
J	PINK	32
K	PINK	33
L	PINK	52–1
M	PINK	15–1
N	PINK	52
P	PINK	51–1

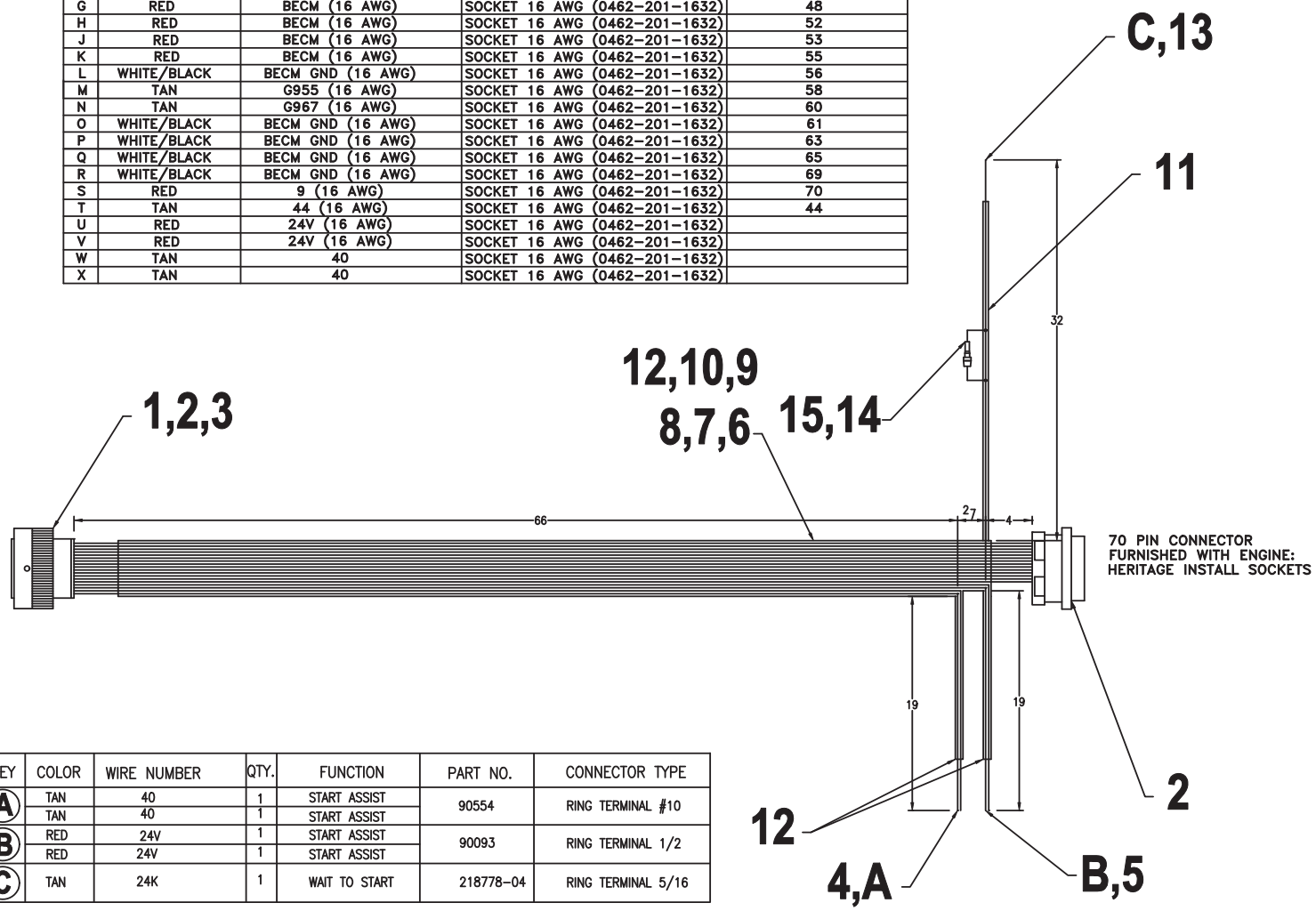
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211945-04	DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PINS	14
3	92756-04	4 PIN 90 DEG.	4
4	86465-04	CLAMP	4
5		WIRE 16 AWG PINK (126-16800-5000-PK)	744"
6		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	488"
7	95799	SPLIT LOOM - 3/8"	124"
8	123097	SPLIT LOOM - 5/8"	64"
9	35Z65	SPLIT LOOM - 3/4"	61"

HARNESS, ENGINE
(216505-01)

NEXT PAGE

23 PIN LAY–OUT

PIN	COLOR	WIRE #	TERMINAL USED	PIN# (70 PIN ENG PLUG)
A	YELLOW	TWISTED (2 COND 18 AWG)	SOCKET 16 AWG (0462–201–1632)	8
B	GREEN	TWISTED (2 COND 18 AWG)	SOCKET 16 AWG (0462–201–1632)	9
C	TAN	24K (16 AWG)		
D	GREEN	TWISTED (3 COND 18 AWG)	SOCKET 16 AWG (0462–201–1632)	34
E	GRAY	TWISTED (3 COND 18 AWG)	SOCKET 16 AWG (0462–201–1632)	42
F	YELLOW	TWISTED (3 COND 18 AWG)	SOCKET 16 AWG (0462–201–1632)	50
G	RED	BECM (16 AWG)	SOCKET 16 AWG (0462–201–1632)	48
H	RED	BECM (16 AWG)	SOCKET 16 AWG (0462–201–1632)	52
J	RED	BECM (16 AWG)	SOCKET 16 AWG (0462–201–1632)	53
K	RED	BECM (16 AWG)	SOCKET 16 AWG (0462–201–1632)	55
L	WHITE/BLACK	BECM GND (16 AWG)	SOCKET 16 AWG (0462–201–1632)	56
M	TAN	G955 (16 AWG)	SOCKET 16 AWG (0462–201–1632)	58
N	TAN	G967 (16 AWG)	SOCKET 16 AWG (0462–201–1632)	60
O	WHITE/BLACK	BECM GND (16 AWG)	SOCKET 16 AWG (0462–201–1632)	61
P	WHITE/BLACK	BECM GND (16 AWG)	SOCKET 16 AWG (0462–201–1632)	63
Q	WHITE/BLACK	BECM GND (16 AWG)	SOCKET 16 AWG (0462–201–1632)	65
R	WHITE/BLACK	BECM GND (16 AWG)	SOCKET 16 AWG (0462–201–1632)	69
S	RED	9 (16 AWG)	SOCKET 16 AWG (0462–201–1632)	70
T	TAN	44 (16 AWG)	SOCKET 16 AWG (0462–201–1632)	44
U	RED	24V (16 AWG)	SOCKET 16 AWG (0462–201–1632)	
V	RED	24V (16 AWG)	SOCKET 16 AWG (0462–201–1632)	
W	TAN	40	SOCKET 16 AWG (0462–201–1632)	
X	TAN	40	SOCKET 16 AWG (0462–201–1632)	



KEY	COLOR	WIRE NUMBER	QTY.	FUNCTION	PART NO.	CONNECTOR TYPE
A	TAN	40	1	START ASSIST	90554	RING TERMINAL #10
	TAN	40	1	START ASSIST		
B	RED	24V	1	START ASSIST	90093	RING TERMINAL 1/2
	RED	24V	1	START ASSIST		
C	TAN	24K	1	WAIT TO START	218778–04	RING TERMINAL 5/16

16 AWG TO BE 19 STRANDS OF 29 GAUGE FULLY ANNEALLED BARE COPPER WIRE
WIRING INSULATION TO BE CROSS LINKED POLYETHYLENE TYPE GXL
NO SUBSTITUTIONS WITHOUT ROADTEC ENGINEERING APPROVAL

PREVIOUS PAGE

HARNESS, ENGINE
(216505-01)

70 PIN LAY–OUT (CONNECTOR FURNISHED WITH ENGINE)

PIN	COLOR	WIRE #	PIN	COLOR	WIRE #
1		SEALING PLUG (WITH ENGINE)	36		SEALING PLUG (WITH ENGINE)
2		SEALING PLUG (WITH ENGINE)	37		SEALING PLUG (WITH ENGINE)
3		SEALING PLUG (WITH ENGINE)	38		SEALING PLUG (WITH ENGINE)
4		SEALING PLUG (WITH ENGINE)	39		SEALING PLUG (WITH ENGINE)
5		SEALING PLUG (WITH ENGINE)	40		SEALING PLUG (WITH ENGINE)
6		SEALING PLUG (WITH ENGINE)	41		SEALING PLUG (WITH ENGINE)
7		SEALING PLUG (WITH ENGINE)	42	GRAY	TWISTED (3 COND 18 AWG)
8	YELLOW	TWISTED (2 COND 18 AWG)	43		SEALING PLUG (WITH ENGINE)
9	GREEN	TWISTED (2 COND 18 AWG)	44	TAN	44 (16 AWG)
10		SEALING PLUG (WITH ENGINE)	45		SEALING PLUG (WITH ENGINE)
11		SEALING PLUG (WITH ENGINE)	46		SEALING PLUG (WITH ENGINE)
12		SEALING PLUG (WITH ENGINE)	47		SEALING PLUG (WITH ENGINE)
13		SEALING PLUG (WITH ENGINE)	48	RED	BECM (16 AWG)
14		SEALING PLUG (WITH ENGINE)	49		SEALING PLUG (WITH ENGINE)
15		SEALING PLUG (WITH ENGINE)	50	YELLOW	TWISTED (3 COND 18 AWG)
16		SEALING PLUG (WITH ENGINE)	51		SEALING PLUG (WITH ENGINE)
17		SEALING PLUG (WITH ENGINE)	52	RED	BECM (16 AWG)
18		SEALING PLUG (WITH ENGINE)	53	RED	BECM (16 AWG)
19		SEALING PLUG (WITH ENGINE)	54		SEALING PLUG (WITH ENGINE)
20		SEALING PLUG (WITH ENGINE)	55	RED	BECM (16 AWG)
21		SEALING PLUG (WITH ENGINE)	56	WHITE/BLACK	GND (16 AWG)
22		SEALING PLUG (WITH ENGINE)	57		SEALING PLUG (WITH ENGINE)
23		SEALING PLUG (WITH ENGINE)	58	TAN	G955 (16 AWG)
24		SEALING PLUG (WITH ENGINE)	59		SEALING PLUG (WITH ENGINE)
25		SEALING PLUG (WITH ENGINE)	60	TAN	G967 (16 AWG)
26		SEALING PLUG (WITH ENGINE)	61	WHITE/BLACK	GND (16 AWG)
27		SEALING PLUG (WITH ENGINE)	62		SEALING PLUG (WITH ENGINE)
28		SEALING PLUG (WITH ENGINE)	63	WHITE/BLACK	GND (16 AWG)
29		SEALING PLUG (WITH ENGINE)	64		SEALING PLUG (WITH ENGINE)
30		SEALING PLUG (WITH ENGINE)	65	WHITE/BLACK	GND (16 AWG)
31		SEALING PLUG (WITH ENGINE)	66		SEALING PLUG (WITH ENGINE)
32		SEALING PLUG (WITH ENGINE)	67		SEALING PLUG (WITH ENGINE)
33		SEALING PLUG (WITH ENGINE)	68		SEALING PLUG (WITH ENGINE)
34	GREEN	TWISTED (3 COND 18 AWG)	69	WHITE/BLACK	GND (16 AWG)
35		SEALING PLUG (WITH ENGINE)	70	RED	9 (16 AWG)

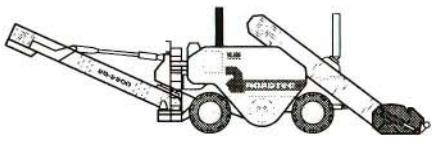
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211953-04	DEUTSCH 23 PIN PLUG	1
2	133746-04	DEUTSCH 16 AWG SOCKET	41
3	133741-04	DEUTSCH SEALING PLUG	4
4	90554	RING TERMINAL - #10	1
5	90093	RING TERMINAL - 1/2	1
6	210423-04	WIRE - 16 AWG RED	766”
7	210424-04	WIRE - 16 AWG WHITE / BLACK	460”
8	210430-04	WIRE - 16 AWG TAN	514”
9	216440-04	WIRE - 18 AWG 2 CONDUCTOR TWISTED	92”
10	201945	3 CONDUCTOR TWISTED WIRE	92”
11	95021	SPLIT LOOM - 1/4”	68”
12	98298	SPLIT LOOM - 1”	92”
13	218778-04	RING TERMINAL - 5/16”	1
14	149509	FUSE HOLDER	1
15	209077-04	FUSE 5 AMP	1

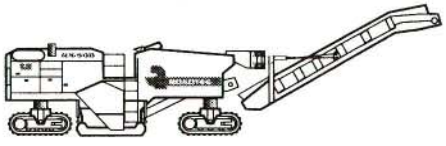
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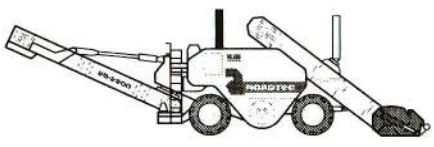
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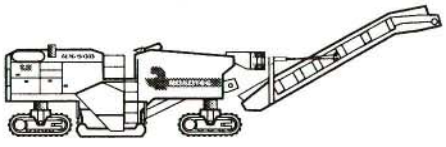
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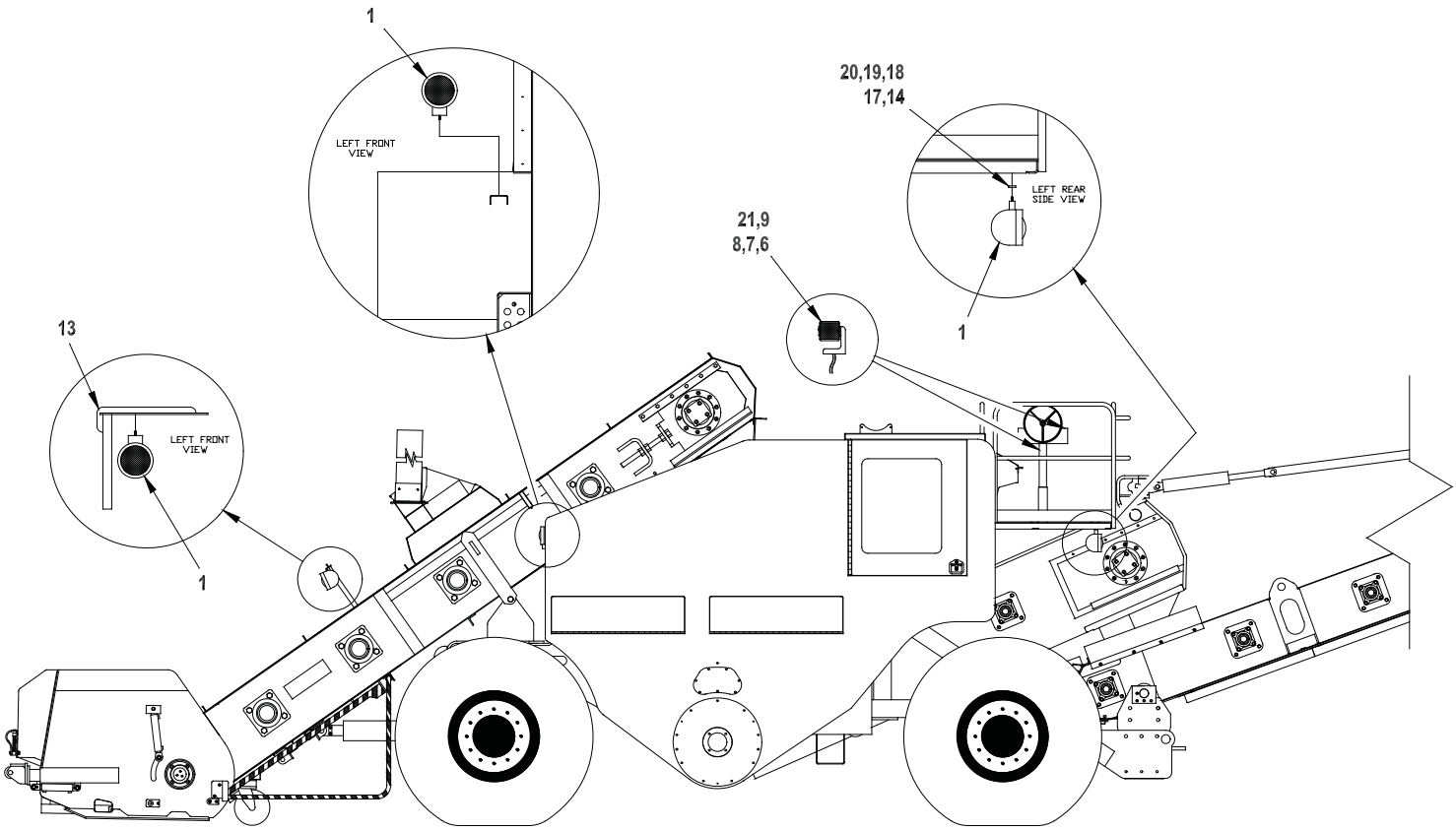
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SECTION 7 : OPTIONAL EQUIPMENT

ASSEMBLY	PART NO.	S/N	PAGE NO.
12 VDC. WORKING LIGHTS	201880-01	640 & UP	7.1
TRUCK HITCH	201853-01		7.3
4kw-120v GENERATOR	216355-01		7.5
GENSET OUTLET EXT'N.	148267-03		7.8
STORAGE CABINET	211338-01		7.9
WINDROW	212471-01	780 & UP	7.11
WINDROW PIVOT	200855-01		7.15
ELECTRICAL	203236-01		7.17
HYDRAULIC	212043-01		7.19
C-1 HOPPER CNTL.	212046-02		7.23
C-1 RAISE/LOWER MANIFOLD	212045-03		7.24
ENVIR. WASHDOWN	217955-01		7.25

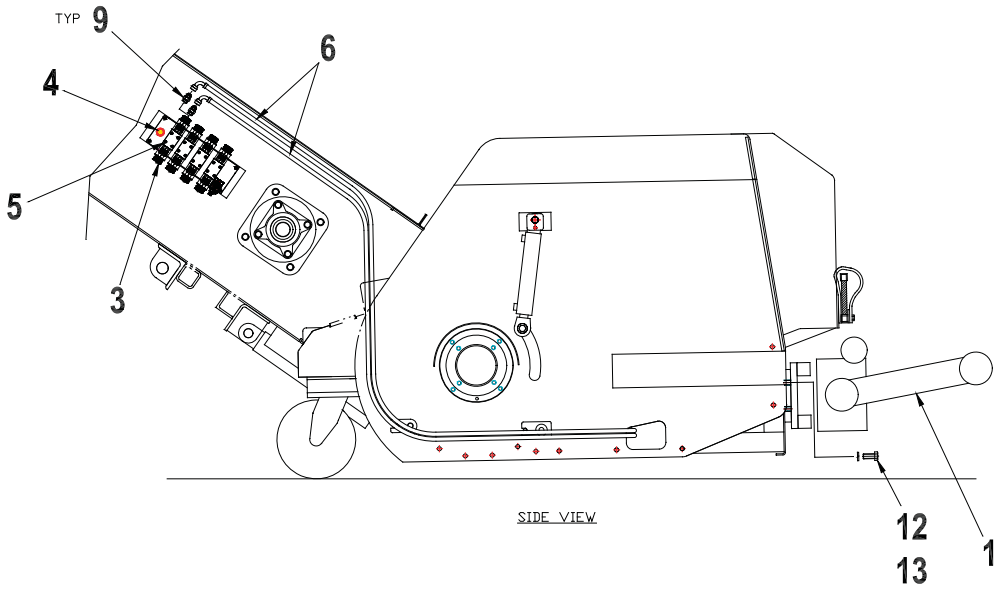
12 VDC. WORKING LIGHTS OPTION
(201880-01)



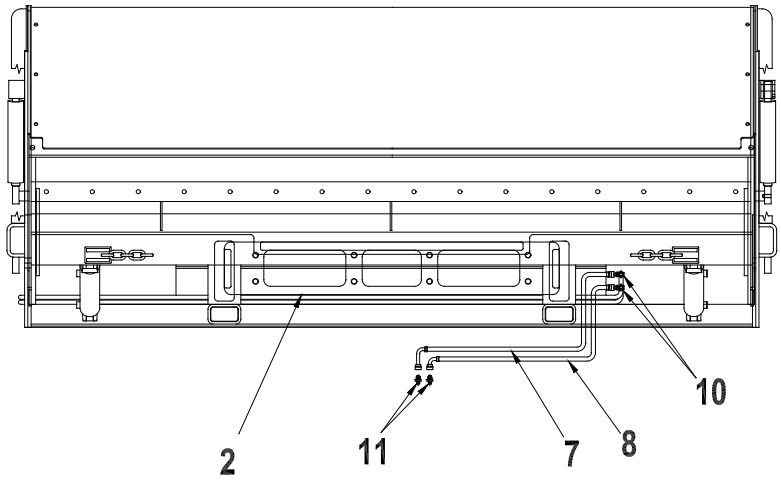
12 VDC. WORKING LIGHTS OPTION
(201880-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	89801-04	LIGHT - HELLA LAMP 12 VDC	6
2	87856-04	WIRE - 12 GA.	720"
3	13E68	TOGGLE SWITCH	2
4	95021	SPLIT LOOM - 1/4" PLASTIC	720"
5	92523-04	CIRCUIT BREAKER -30 AMP	2
6	91207-04	SCREW, SLOT HD. 10 - 32 X 1 1/4"	4
7	90102	NUT, HEX 10 - 32 UNC	4
8	90103	LOCKWASHER # 10	4
9	92552	FLAT WASHER #10	4
10	121539	MALE CONNECTOR	4
11	121396	FEMALE CONNECTOR	2
12	93253	TERMINAL RING #16 GA. (# 10)	4
13	201210-03	C-1 MIRROR MOUNT	
14	140777-04	RR. LIGHT BRACKET (PLATFORM)	2
15	20K32	CLAMP - 1/4" WIRE LOOM	22
16	83905-04	WIRE TIE - 1/4" X 14" NYLON	50
17	83757	FLAT WASHER 3/8"	6
18	83056	LOCKWASHER 3/8"	6
19	83442	BOLT, HEX 3/8 - 16 X 1" GD. 8	2
20	144757-04	12 V. CONSOLE LIGHT	2
21	130771	CLAMP - 1/2" CUSHION TUBE (3/8" BOLT)	16
22	83114	BOLT, HEX 31/4 - 20 X 1/2' GD. 8	16
23	84444	FLAT WASHER 1/4" STEEL	16
24	83065	LOCKWASHER 1/4" SPRINTG STEEL	16

TRUCK HITCH OPTION
(201853-01)

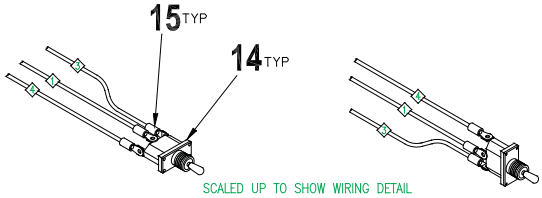


SIDE VIEW

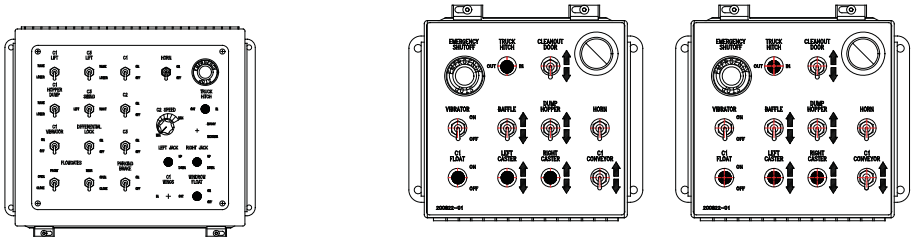


FRONT VIEW
TRUCK HITCH NOT SHOWN

REMOVE EXISTING HOSES AND FITTINGS ON TRUCK HITCH AND REPLACE THEM WITH ITEMS 7, 8, AND 11.



SCALED UP TO SHOW WIRING DETAIL



OPERATOR CONTROL BOX

LEFT HAND HOPPER CONTROL BOX

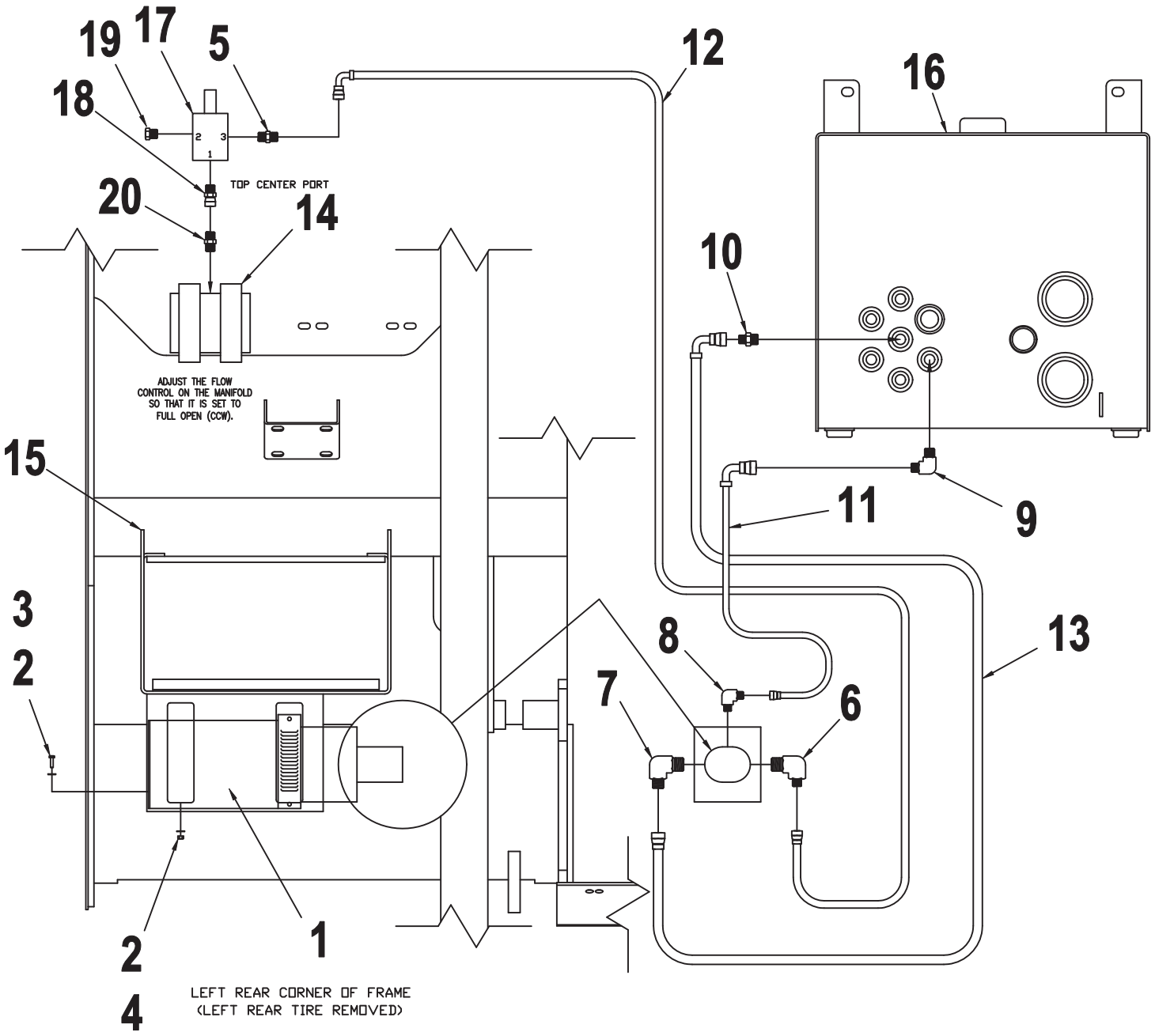
RIGHT HAND HOPPER CONTROL BOX

TRUCK HITCH OPTION
(201853-01)

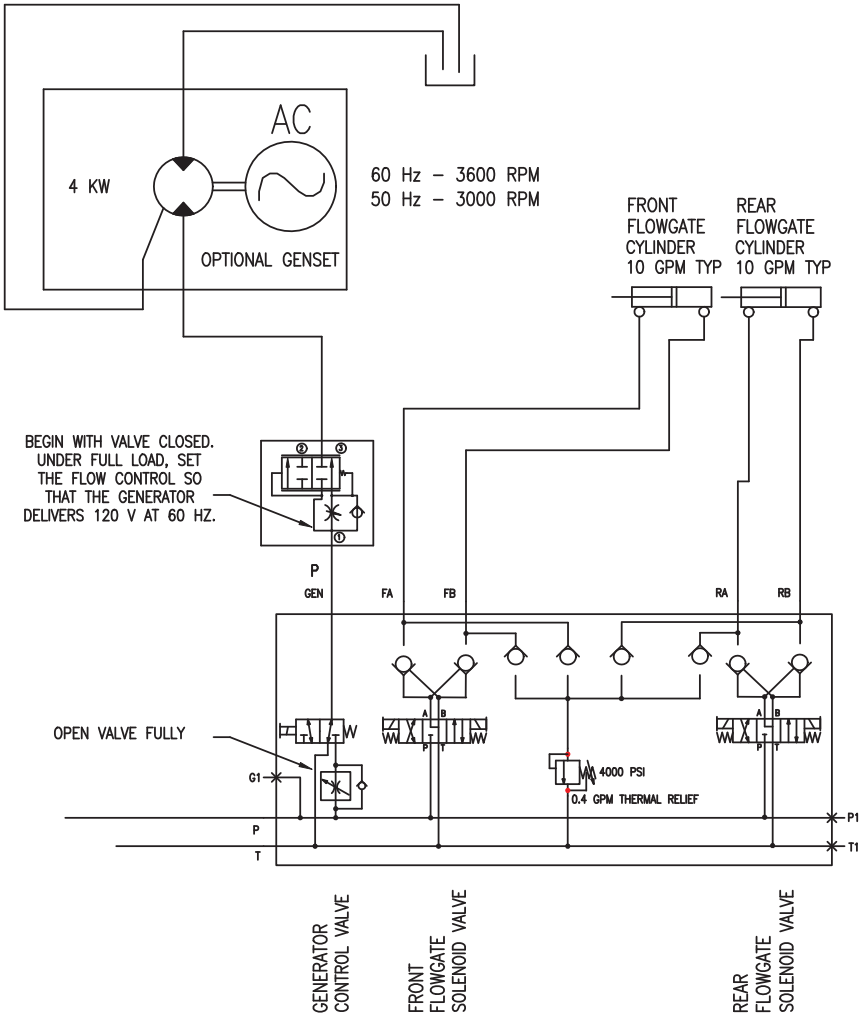
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	29E85	TRUCK HITCH	1
2	201811-01	TRUCK HITCH MOUNTING PLATE	1
3	143972-C12	VALVE - D03 MOTOR SPOOL	1
4	143972-C19	PRESSURE REDUCING VALVE	1
5	148745-04	SCREW - #10-24 X 2 ,CAP	4
6	201881	HOSE ASSY - STD 1/4 X 240, 4X6ST-4X690	2
7	201882	HOSE ASSY - STD 1/4 X 36, 4X6ST-4X6LN90	1
8	129871	HOSE ASSY - STD 1/4 X 36, 4X6ST-4X690	1
9	83469-04	8 SAE X 6 JIC STRAIGHT	2
10	85381	6 JIC BULKHEAD 90	2
11	86170-04	1/4 NPT X 6 JIC STRAIGHT	2
12	OO891	HEX BOLT - 3/4-10 X 1 3/4 GR8	8
13	83133	FLAT WASHER - 3/4	8
14	139471	SWITCH - TOGGLE MOMENTARY SPRING	3
15	90990-04	WIRE - RING POST #6 - #16	9

4kw-120V. GENERATOR ASSY.
(216355-01)

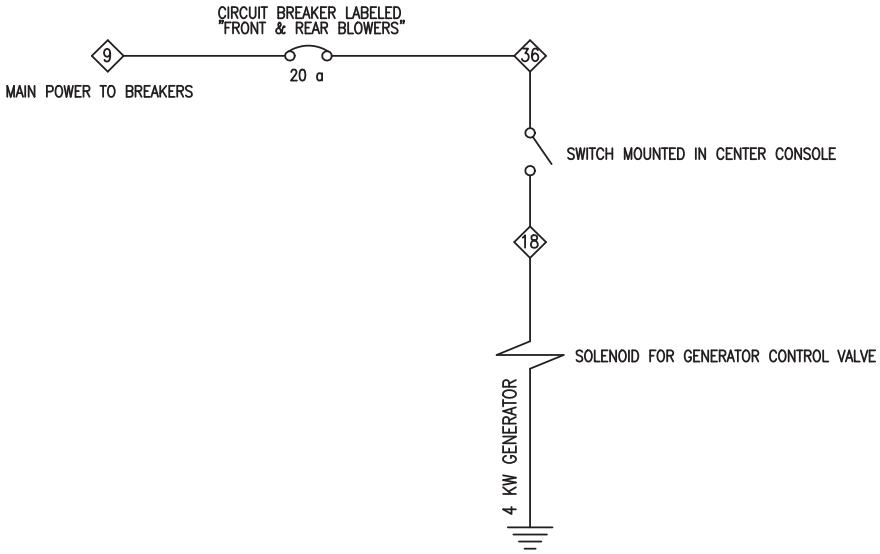
NEXT PAGE



4kw-120V. GENERATOR ASSEMBLY
(216355-01)



HYDRAULIC SCHEMATIC



ELECTRICAL SCHEMATIC

4kw-120V. GENERATOR ASSEMBLY
(216355-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	135308-04	GENERATOR - 4KW-120V AC W/O FLOW CNTL.	1
2	15C82	BOLT - 5/16-18 X 1 1/4" GR8	4
3	90871	FLAT WASHER - 5/16" STEEL	8
4	90875	LOCK NUT - 5/16-18	4
5	83469-04	FIT - 8 SAE X 6 JIC ST	1
6	92987	FIT - 10 SAE X 6 JIC 90 DEG.	1
7	123831	FIT - 10 SAE X 8 JIC 90 DEG.	1
8	83743-04	FIT - 4 SAE X 4 JIC 90 DEG.	1
9	120672	FIT - 3/4" NPT X 6 JIC 90 DEG.	1
10	83962-04	FIT - 3/4" NPT X 8 JIC ST	1
11	131121	HOSE ASSY. - 1/4" STD X 92" (4-4 ST X 4-6 90 DEG.)	1
12	126910	HOSE ASSY. - 3/8" STD X 86" (6-6 ST X 6-6 90 DEG.)	1
13	134510	HOSE ASSY. - 1/2" STD X 91" (8-8 ST X 8-8 90 DEG.)	1
14	146252-03	VALVE - FLOW GATE GENERATOR MANIFOLD	REF
15	200183-01	BATTERY BOX WLDMT.	REF
16	200204-01	HYDRAULIC TANK WLDMT.	REF
17	205783-04	VALVE - FLOW REGULATOR	1
18	122168	FIT - 8 SAE M - 8 JIC F SWIVEL	1
19	83767-04	FIT - PLUG 8 SAE	1
20	83462-04	FIT - CONNECTOR 8 JIC - 6 SAE MALE	1

GENSET OUTLET EXTENSIONS
(148267-03)

ITEMS 1 & 14 ARE DIVIDED AS FOLLOWS:

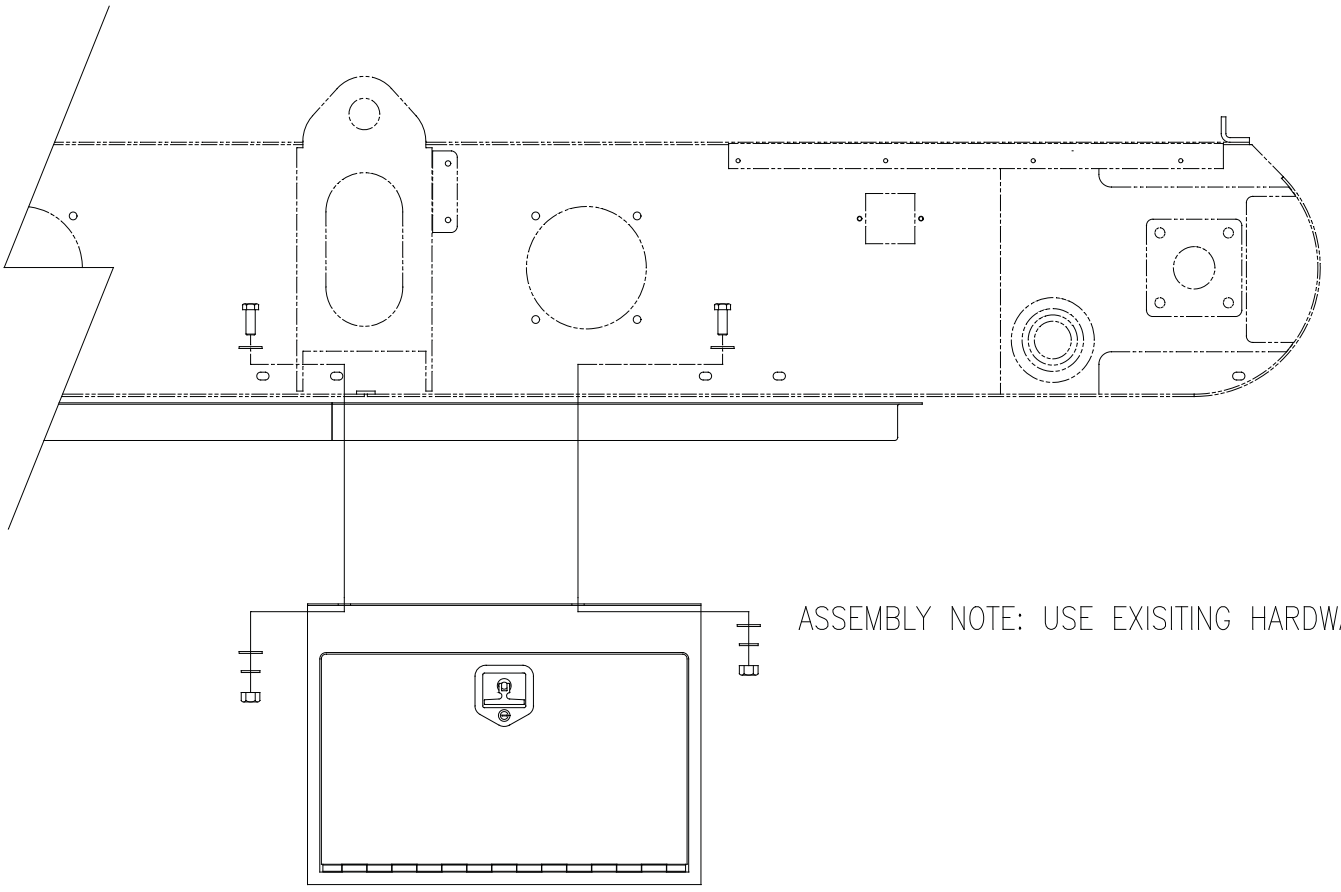
	3/8 CONDUIT	BLACK WIRE	WHITE WIRE	GREEN WIRE
FRONT TO BACK - RIGHT SIDE	264”	276”	276”	276”
RIGHT SIDE TO GENERATOR SET	144”	156”	156”	156”
FRONT TO BACK - LEFT SIDE	252”	264”	264”	264”
LEFT SIDE TO GENERATOR SET	20”	32”	32”	32”

ITEMS 3 MOUNT WITH ITEMS 10, 11, & 12 AT THE FOUR CORNERS OF THE MACHINE
BOTH FRONT CORNERS - DRILL & TAP THE BOTTOM AT EACH END OF THE 3” TUBE THAT THE HORN IS MOUNTED TO.

BOTH RAER CORNERS - DRILL & TAP THE BOTTOM OF BOTH THE REAR HYDRAULIC & FUEL TANK MOUNTS

REF NO.	PART NO.	DESCRIPTION	NO. REQ’D
1	122101	FLEX CONDUIT - 3/8” SEALED X 680”	1
2	142461	FORK TERMINAL - #10 YELLOW	16
3	128940	OUTLET BOX	4
4	128939	COVER - GRAY OUTLET BOX WEATHER-PROOF	4
5	128938	DUPLEX RECEPTACLE	4
6	90554	RING TERMINAL - # 10 YELLOW	6
7	122101-C1	CONDUIT FITTING - 3/8” SEALED ST	5
8	122933	WIRE NUT - RED	2
9	122101-C2	CONDUIT FITTING - 3/8” SEALED 90	3
10	89988-04	BOLT, HEX 1/4 - 20 X 3/4”	8
11	84444	FLAT WASHER 1/4” STEEL	8
12	83065	LOCKWASHER 1/4” SPRING STEEL	8
13	122101-C3	CONDUIT NUT - 3/8” SEALED	2
14	87856-04	WIRE - 12 GA. X 2184”	1

STORAGE CABINET OPTION
(211338-01)

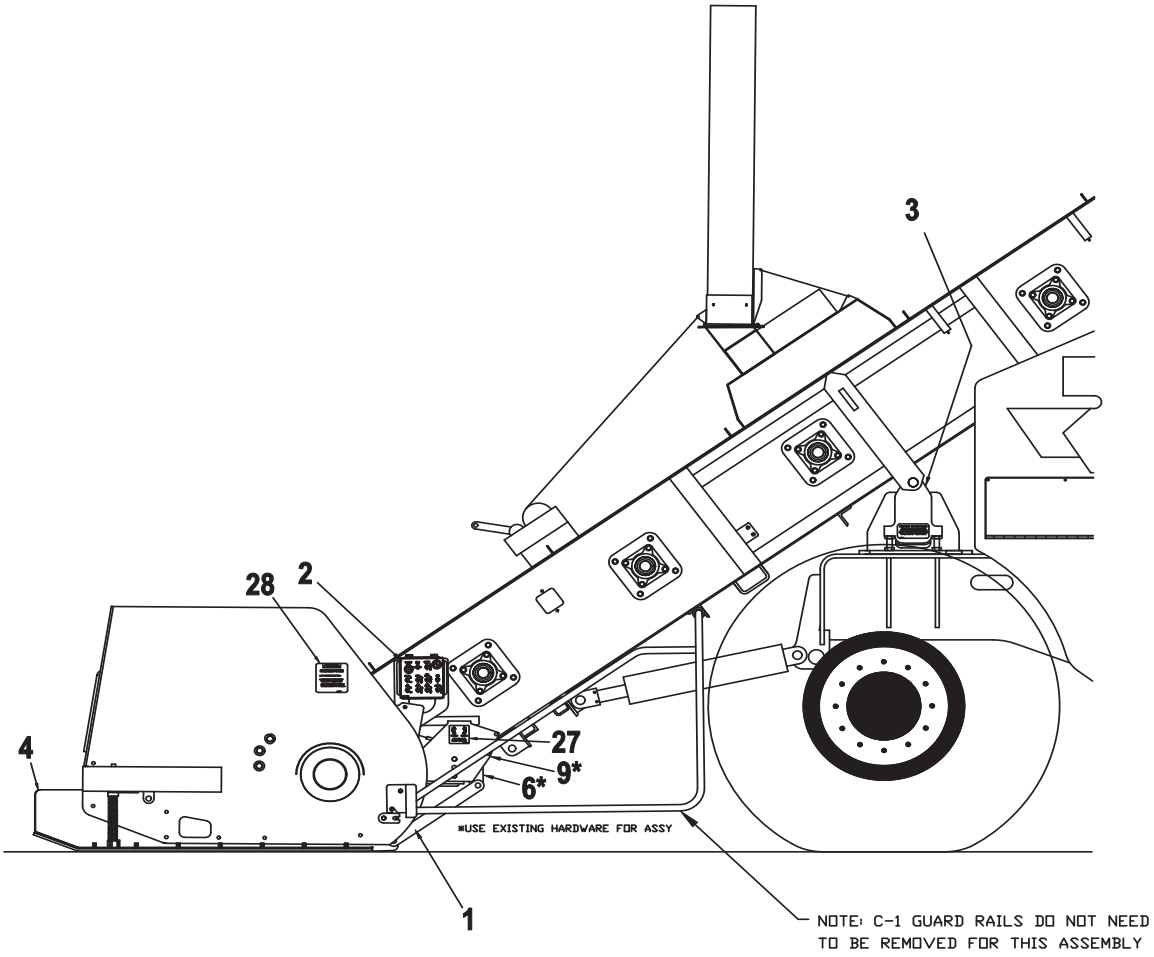


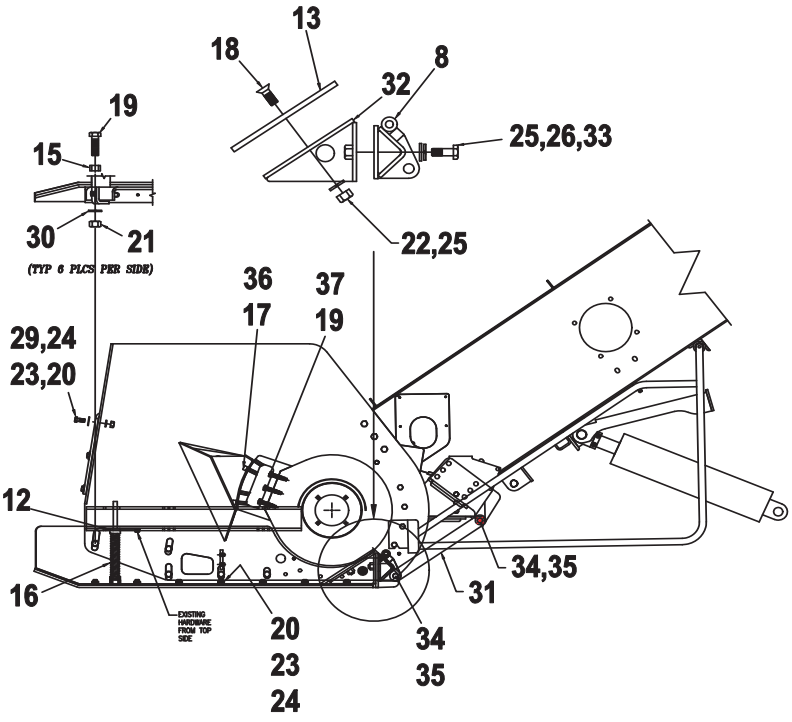
ASSEMBLY NOTE: USE EXISITING HARDWARE

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211337-01	STORAGE CABINET	1
2	139779-04	FLUSH CAP T-HANDLE LATCH W/ KEY	2

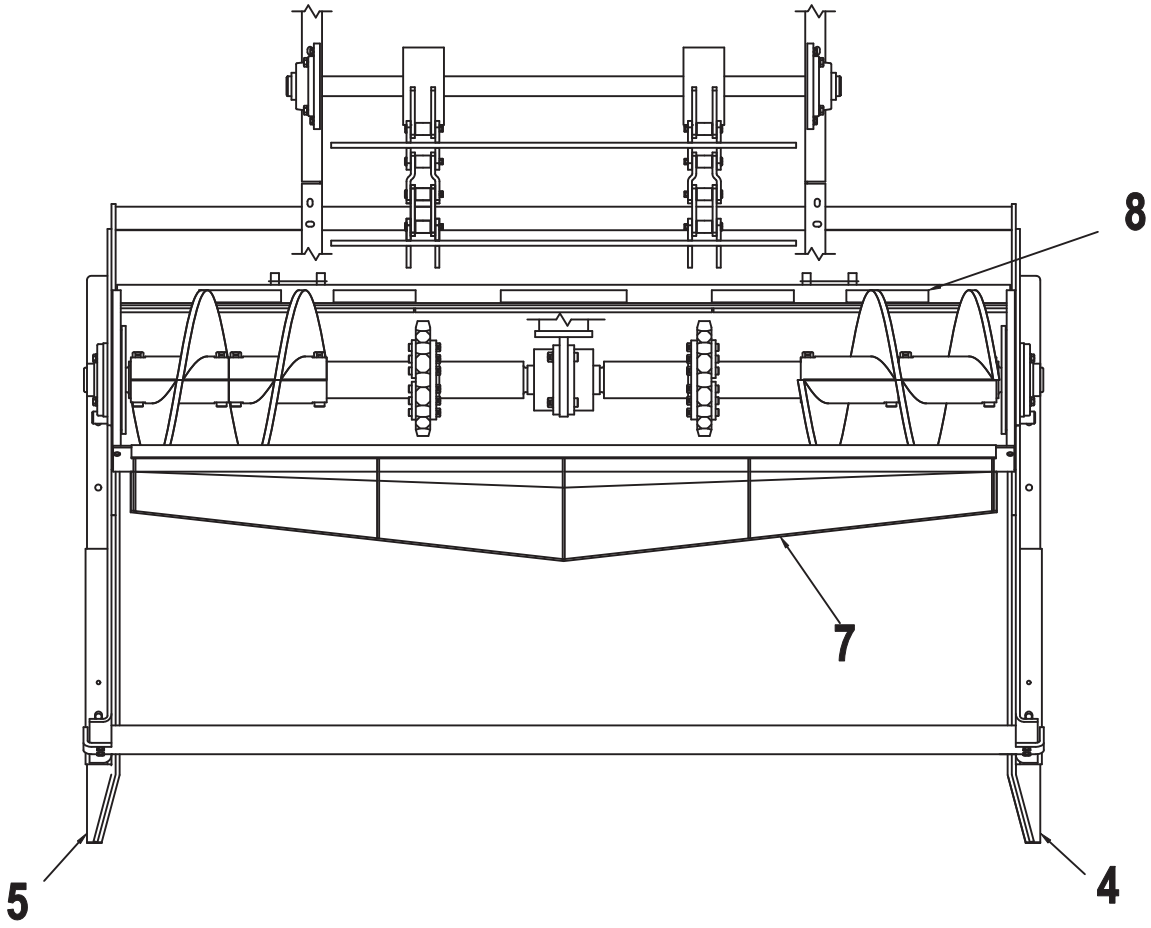
SB-2500C WINDROW OPTION ASSY.
(212471-01)

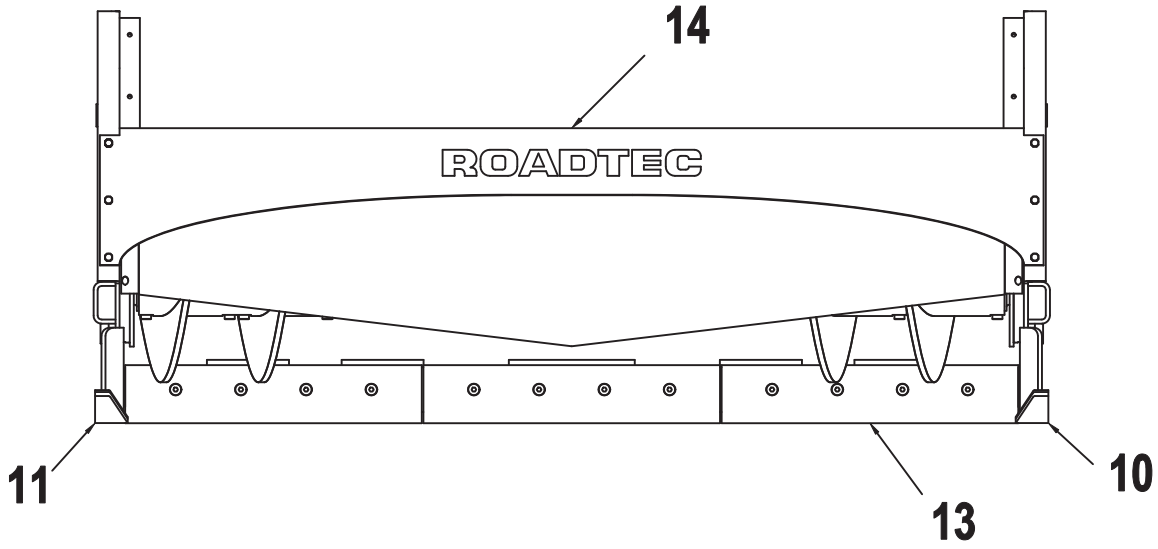
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SB-2500C WINDROW OPTION ASSY.
(212471-01)

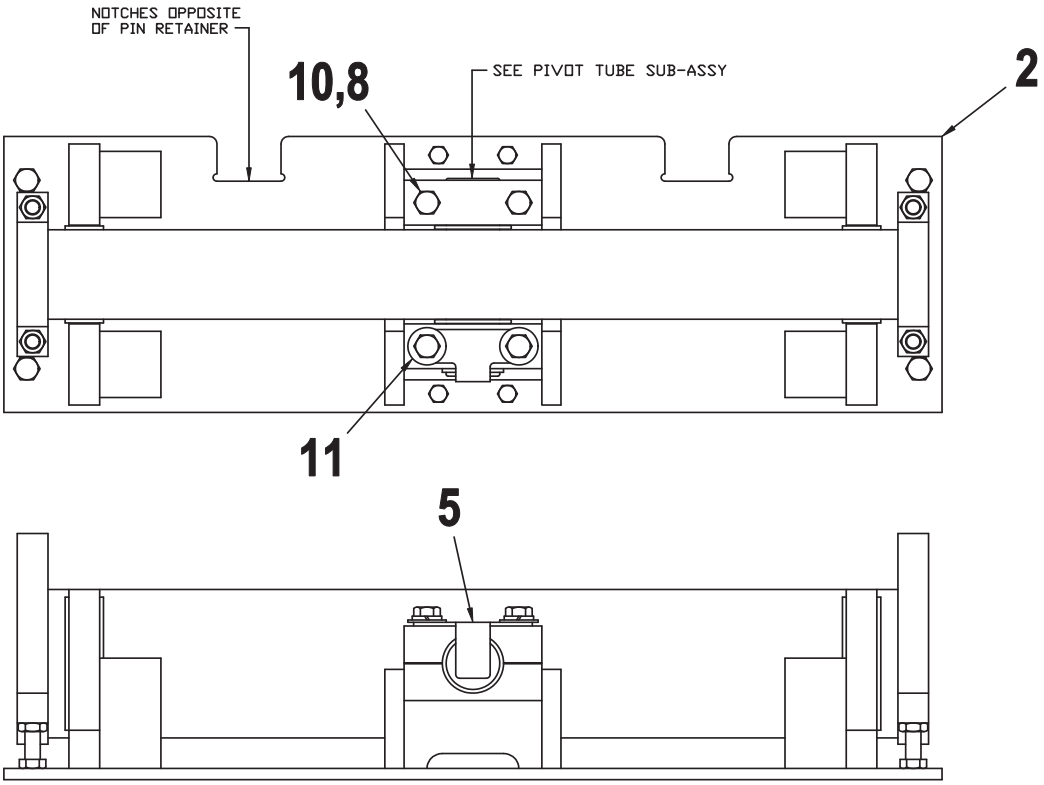


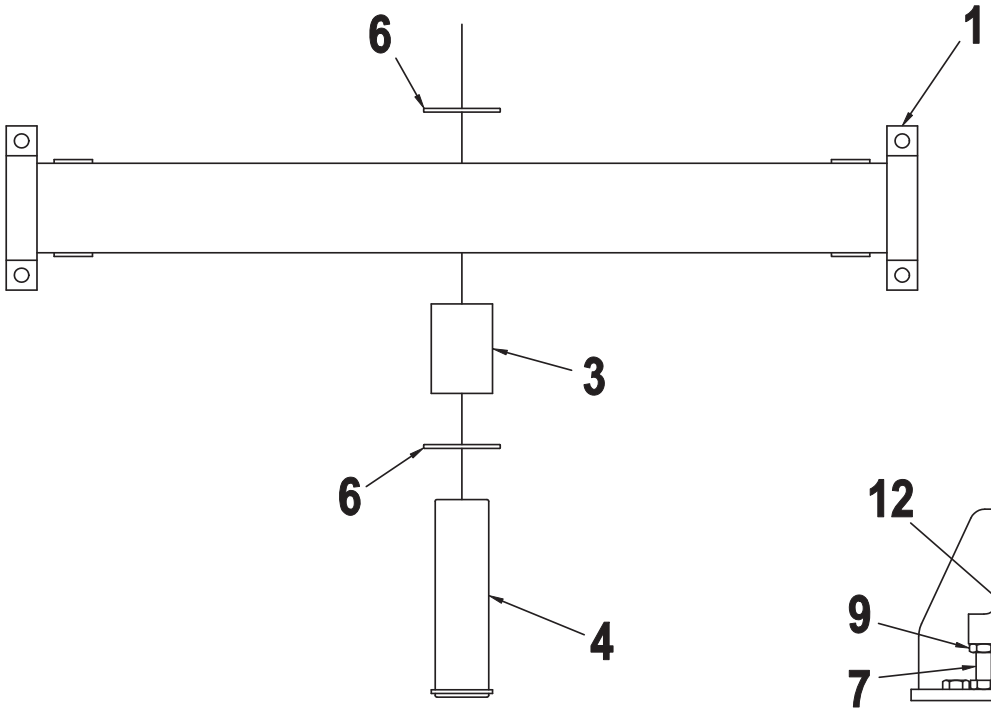


SB-2500C WINDROW OPTION ASSY.
(212471-01)

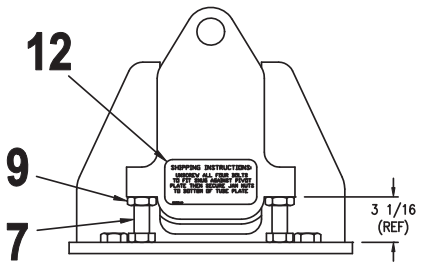
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	212043-01	WINDROW HYD. ASSY.	1
2	203236-01	WINDROW ELECTRICAL ASSY.	1
3	200855-01	WINDROW PIVOT SUB-ASSY.	1
4	202890-01	LH SKI WLDMT.	1
5	202889-01	RH SKI WLDMT.	1
6	208032-03	CYLINDER MOUNT WLDMT.	2
7	202199-01	WINDROW PLOW WLDMT.	1
8	202200-01	SCRAPER MOUNT WLDMT.	1
9	202905-03	VALVE MOUNTING BRACKET	1
10	202909-03L	LH SKI SHOE WLDMT.	1
11	202909-03R	RH SKI SHOE WLDMT.	1
12	202907-04	PIN WLDMT. - SKI	2
13	209002-03	SCRAPER BLADE (45 DEG. INSTALLATION)	3
14	202896-03	SIDE SHEET STIFFENER PLATE	1
15	202911-04	SKI SPACER	12
16	98966-04	SPRING - 10D (1/4" COIL X 13 3/4" LG)	2
17	137265	SHCS SCREW - 5/8-11 X 2"	4
18	136637-04	CSK BOLT - 3/4-10 X 2"	12
19	96041	HEX BOLT - 5/8-11 X 2" GR8	18
20	83288	HEX NUT - 1/2-13 GR8	20
21	92247	LOCK HEX NUT - 5/8-11 GR8	18
22	84071-04	HEX NUT - 3/4-10 GR8	12
23	83317	LOCK WASHER - 1/2" SPRING STEEL	20
24	83781-04	FLAT WASHER - 1/2" STEEL	20
25	83752-04	LOCK WASHER - 3/4" SPRING STEEL	24
26	83133	FLAT WASHER - 3/4" STEEL	12
27	202958-03	DECAL - PICK-UP HEAD DOWN PRESS	1
28	202957-03	DECAL - WINDROW OPERATION	2
29	89142	HEX BOLT - 1/2-13 X 1 3/4" GR8	6
30	85147	WASHER - 5/8	12
31	209063-03	SCRAPER BLADE MOUNT BRACE WLDMT.	2
32	209061-01	45 DEG. SCRAPER BLADE MOUNT WLDMT.	1
33	93071	HEX BOLT - 3/4-10 X 2" GR8	12
34	14S13	HEX BOLT - 1-8 X 3 1/2" GR8	4
35	83378-04	LOCKNUT - 1-8 NYLON	4
36	212434-01	WINDROW PLOW SUPPORT	2
37	84717	LOCK WASHER - 5/8" SPRING STEEL	6

WINDROW PIVOT ASSY.
(200855-01)





PIVOT TUBE SUB-ASSEMBLY

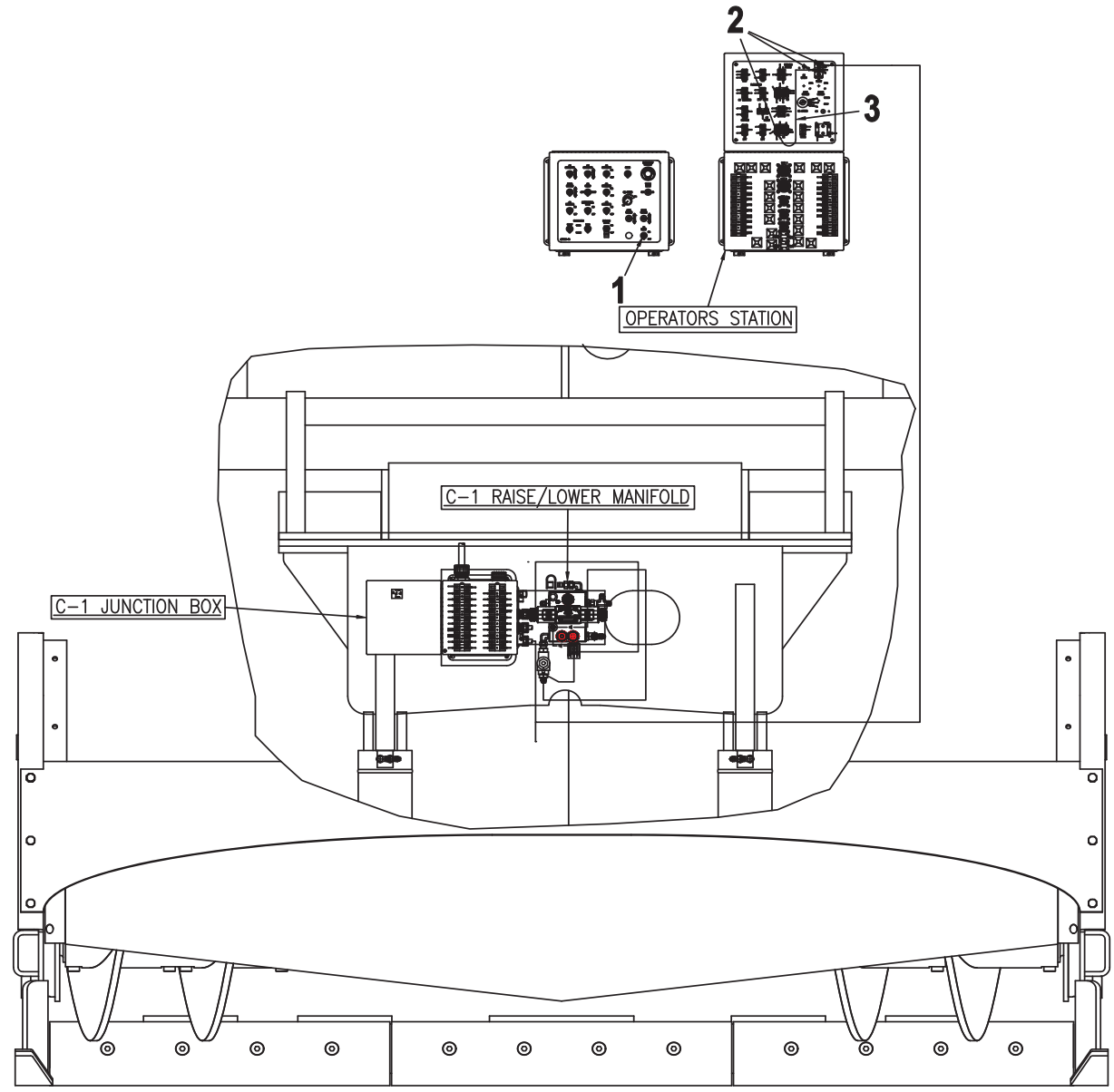


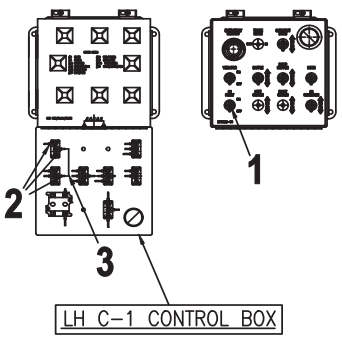
PIVOT TUBE IN LOCKED POSITION

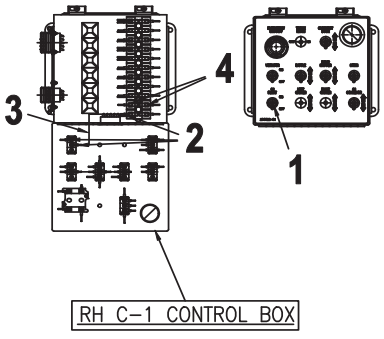
WINDROW PIVOT ASSY.
(200855-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	200852-01	WINDROW PIVOT TUBE WLDMT. & MACH.	1
2	200853-01	SWIVEL C-1 PIVOT WLDMT. & MACH.	1
3	200682	BUSHING - GARMAX 3.5 ID X 4 OD X 6" LG	1
4	200854-03	SWIVEL PIVOT PIN WLDMT. & MACH.	1
5	147427-03	PIVOT PIN RETAINER	1
6	120891-04	SPACER - 3.5 ID BRONZE	2
7	96511	FULL THREAD HEX BOLT - 1-8 X 4 1/2" GR8	4
8	99359	HEX BOLT - 1-8 X 5" GR8	4
9	88445-04	JAM NUT - 1-8 GR8	4
10	83427	LOCKWASHER - 1" SPRING STEEL	4
11	83376-04	FLAT WASHER - 1" STEEL	2
12	200932-03	DECAL - WINDROW SHIPPING	2

WINDROW ELECTRICAL ASSY.
(203236-01)





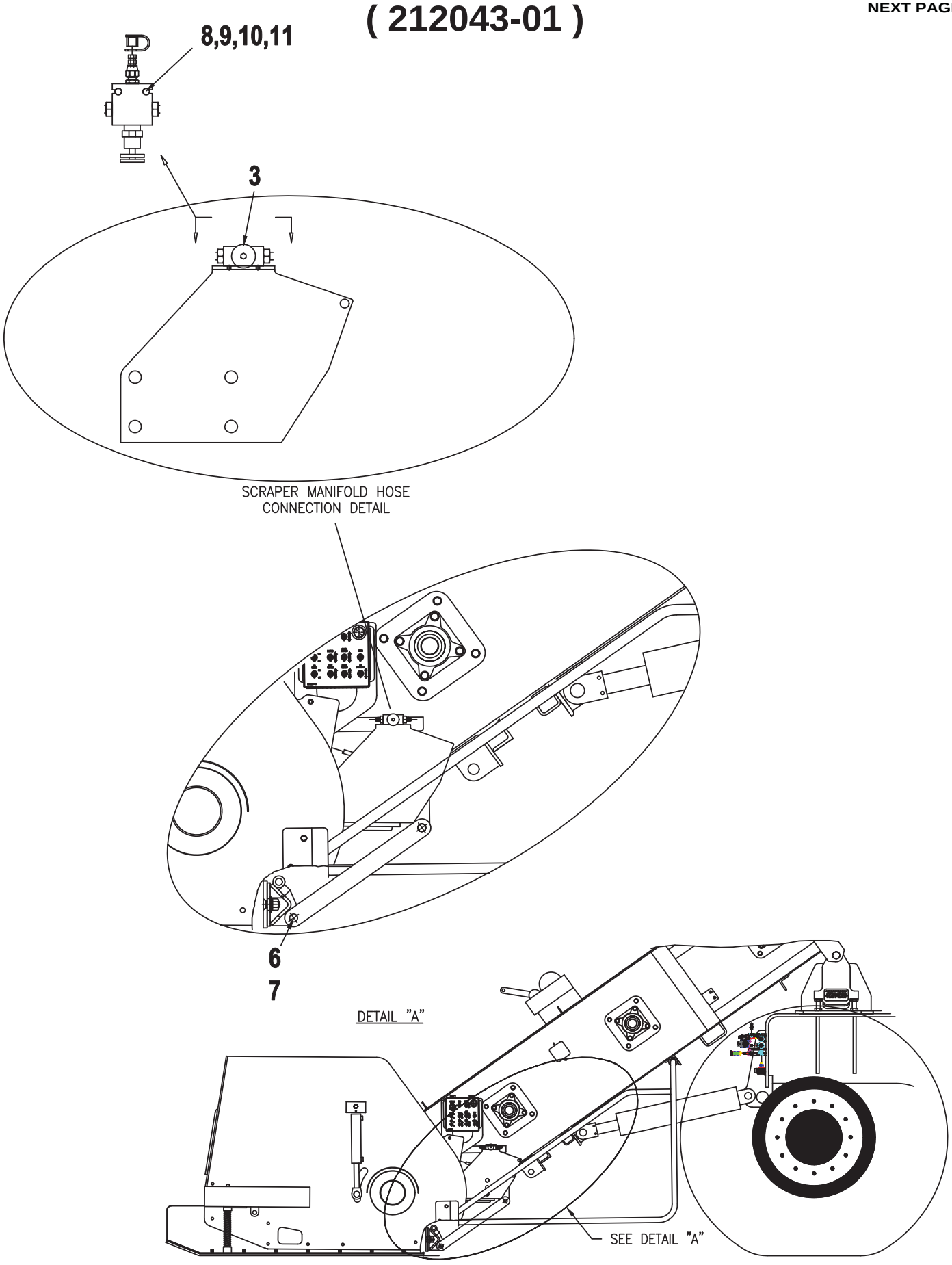


WINDROW ELECTRICAL ASSY.
(203236-01)

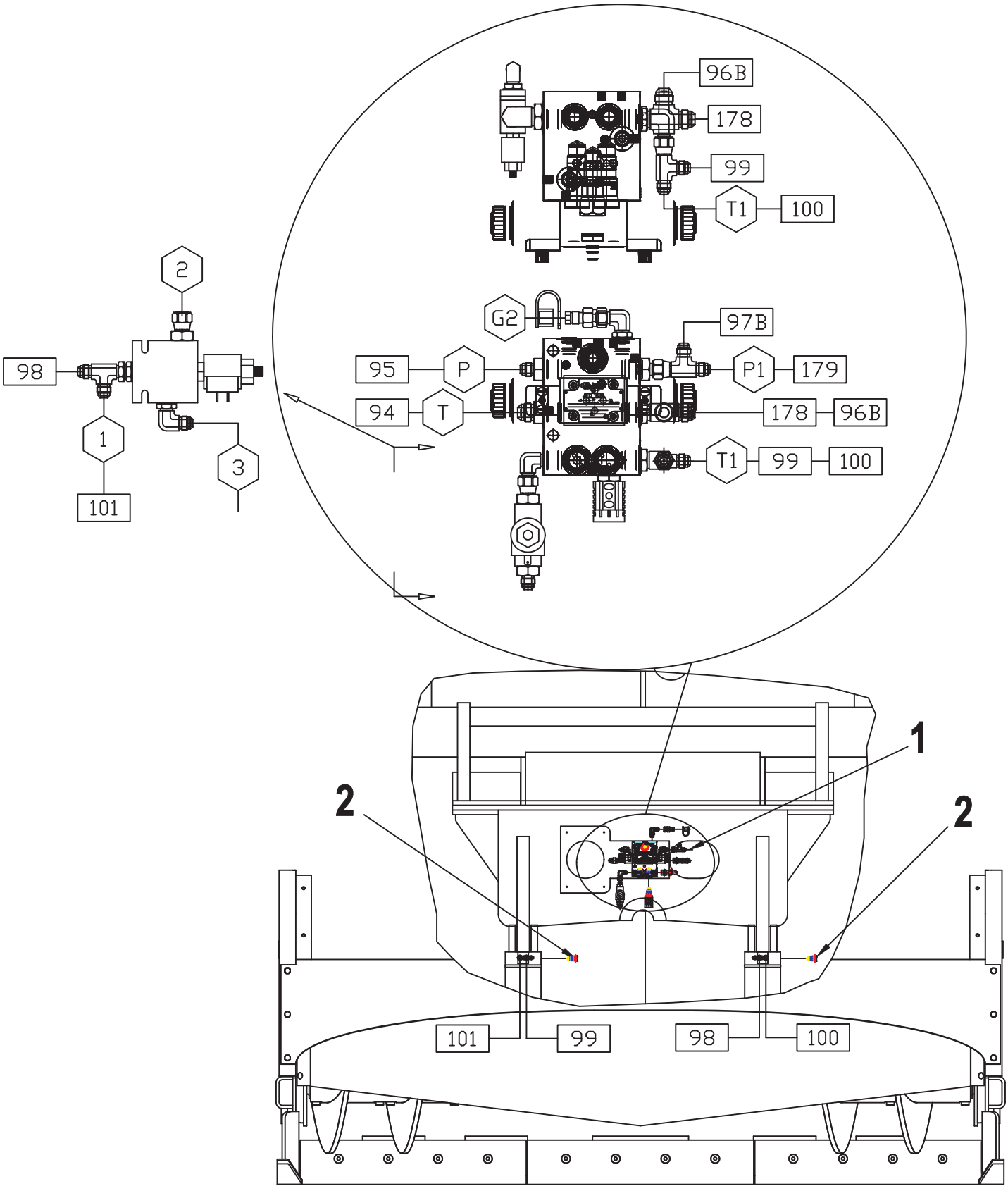
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	13E68	TOGGLE SWITCH - SP ST ON / OFF	3
2	93253	WIRE - TERMINAL RING 16 GA. (#10)	9
3	84316-04	WIRE - 16-2 ALPHA 4" LG	3
4	28Y52	ELEC - TERMINAL FEMALE NON-INSUL .250	2

WINDROW HYDRAULIC ASSY.
(212043-01)

NEXT PAGE



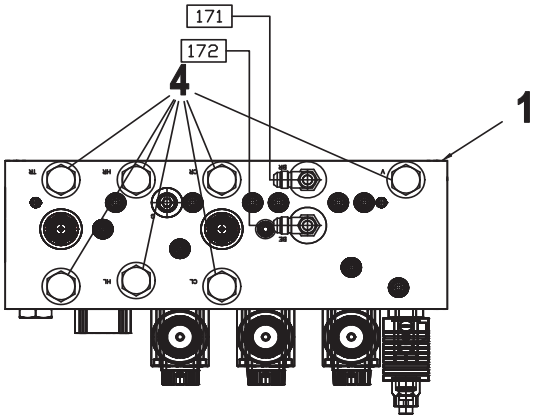
WINDROW HYDRAULIC ASSY.
(212043-01)

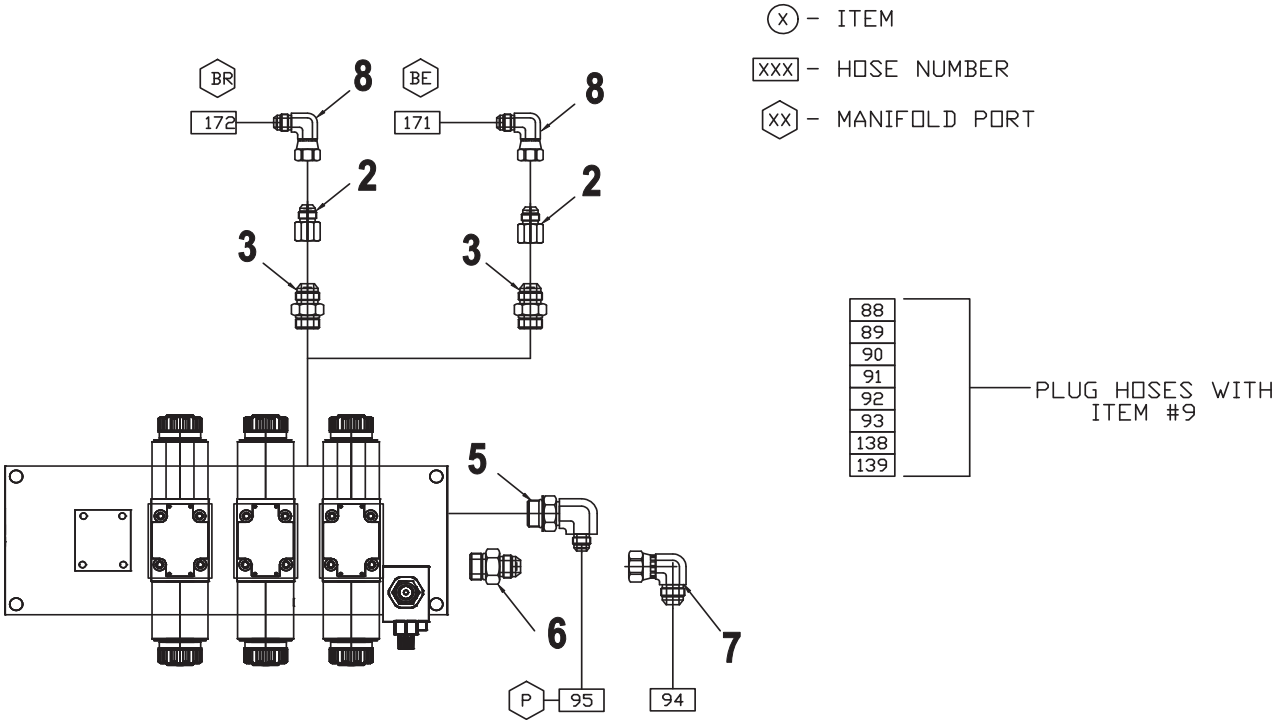


WINDROW HYDRAULIC ASSY.
(212043-01)

REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	212045-03	ASSY. - C-1 RAISE / LOWER MANIFOLD MOD.	1
2	123357	FIT - SUN HYDRAULICS CAVITY PLUG	2
3	212044-04	PRESS. REDUCING VALVE (WINDROW HYD.)	1
4	84426-04	FIT - ELBOW 90 DEG. - 8 SAE X 6 JIC - MALE	4
5			
6	148083-03	PIN WLDMT. - PUSH ROLLER CYLINDER	4
7	86127-04	HEX BOLT - 3/8-16 X 3/4" LG	4
8	83954-04	HEX BOLT - 1/4-20 UNC X 2" LG	2
9	83065	LOCKWASHER - 1/4" SPRING STEEL	2
10	83056	LOCKWASHER - 3/8" SPRING STEEL	4
11	84444	FLAT WASHER - 1/4" STEEL	2
12	121546	HOSE - 3/8-120" 6X6 ST - 6X6 90 DEG.	1
13	212046-02	WINDROW C-1 HOPPER CNTLS. MANIFOLD SUB-ASSY.	1

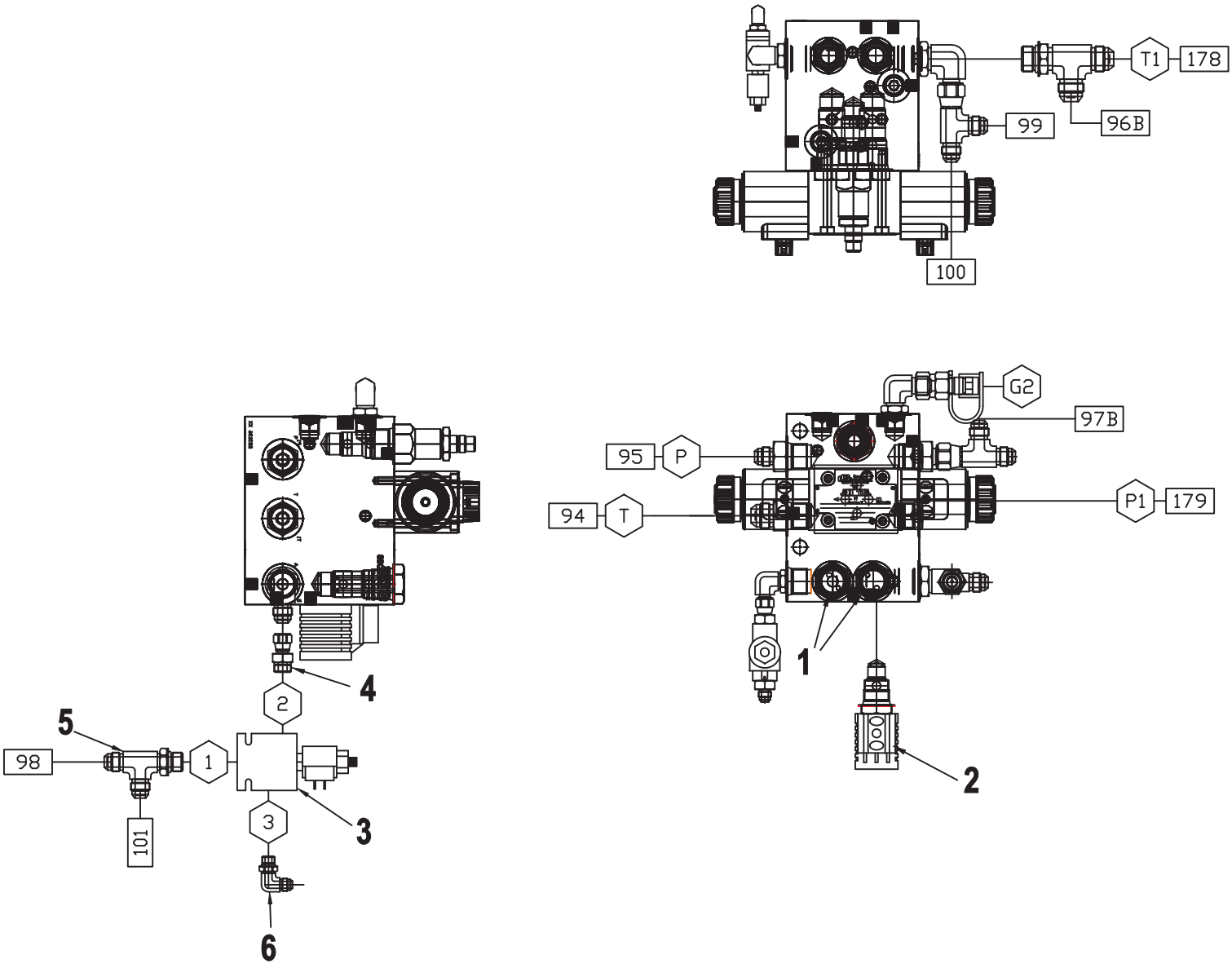
WINDROW C-1 HOPPER CONTROLS MANIFOLD
(212046-02)





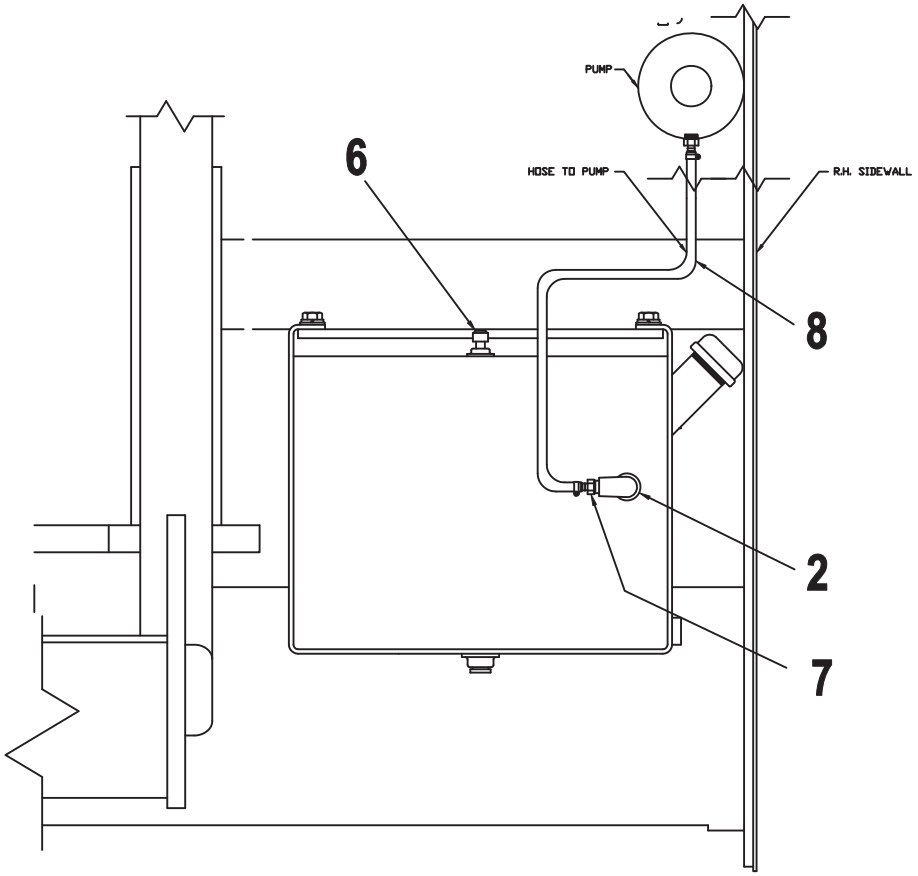
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	146254-03	VALVE - C-1 HOPPER CONTROL MANIFOLD	1
2	135775-04	FIT - RESISTOR 6 JIC X 1/16 ORIFICE	2
3	83469-04	CONNECTOR - 6 JIC X 8 SAE MALE	2
4	83767-04	FIT - PLUG 8 SAE	2
5	92987	FIT - 6 JIC X 10 SAE 90 DEG.	1
6	83704-04	CONNECTOR - 8 JIC - 10 SAE MALE	1
7	83732-04	FIT - ELBOW 8 JIC M X 8 F 90 DEG. SW STL	1
8	83953-04	FIT - FM SWIVEL ELBOW 6 JIC 90 DEG.	2
9	85392-04	FIT - 6 JIC PLUG	8

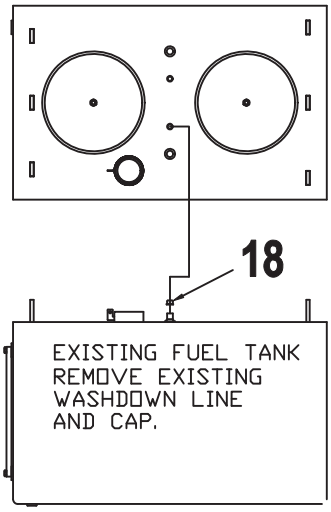
WINDROW C-1 RAISE/LOWER MANIFOLD ASSY.
(212045-03)

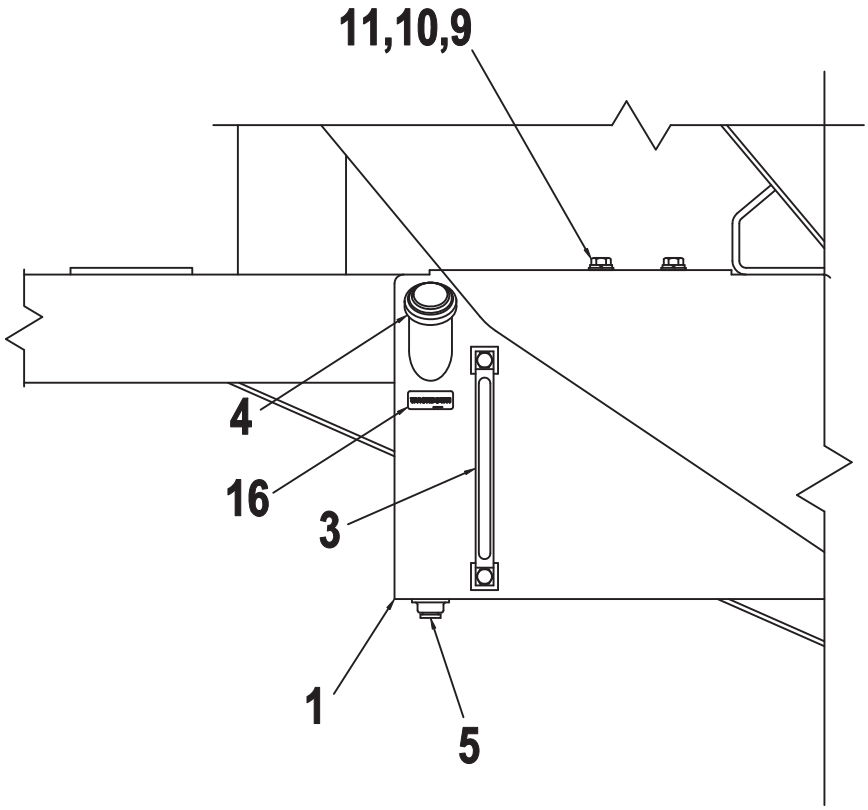


REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	143972-C32	VALVE - CARTRIDGE PO CHECK	2
2	143972-C33	VALVE - CARTRIDGE SOLENOID N/C SPOOL	1
3	203093-04	VALVE - SOLENOID 2 POS - 3 WAY	1
4	135923-04	FIT - 6 SAE MALE - 6 JIC FEM. SW STR.	1
5	91665-04	FIT - RUN TEE 6 JIC M - 6 SAE M	1
6	83734-04	FIT - 6 JIC - 6 SAE 90 DEG.	1

ENVIRONMENTAL WASHDOWN ASSY.
(217955-01)







ENVIRONMENTAL WASHDOWN ASSY.
(217955-01)

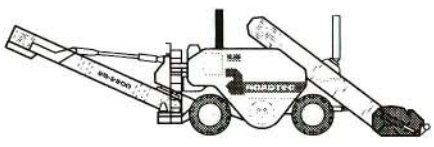
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	200184-01	WASHDOWN TANK WLDMT.	1
2	123754	REDUCER - 3/4" NPT X 3/8" NPT FM 90 DEG.	1
3	97412-04	GAUGE - 12" LIQUID LEVEL CHANNEL	1
4	90332	PLUMB - 2" NPT PIPE CAP	1
5	142610-04	PIPE PLUG - 1" NPT HEX HD PLUG	1
6	27X25	VALVE - TANK VENT (15-20 PSI)	1
7	80187	HOSE BARB - 3/8" NPT X 3/8" BARB	1
8	80132-04	HOSE - 3/8" FUEL / WATER	16"
9	86164	HEX BOLT - 1/2-13 X 1 1/4" GR8	4
10	83317	LOCK WASHER - 1/2" SPRING STEEL	4
11	83781-04	FLAT WASHER - 1/2" STEEL	4
12	121539	ELECTRICAL - #10 YELLOW MALE CONN.	1
13	121538	ELECTRICAL - #10 YELLOW FEMALE CONN.	1
14	90554	WIRE - #10 RING TERMINAL	3
15	98059-04	HEAVY DUTY TERMINAL	1
16	99535-04	DECAL - WASHDOWN	1
17	211719-04	TEC-SHIELD - 5 GAL	.25
18	96650	PLUMB - PIPE CAP 1/2" NPT	1

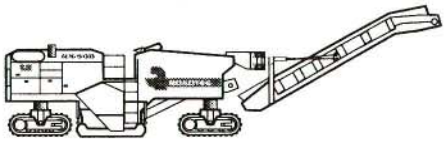
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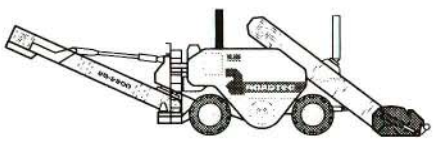
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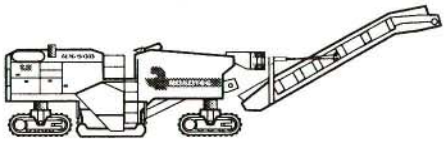
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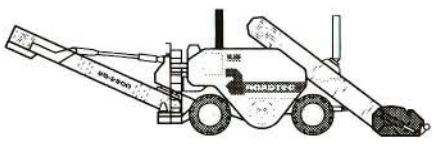
SECTION 8 : NOTES

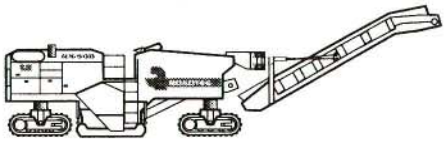
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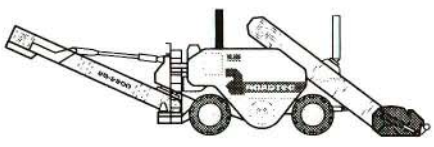
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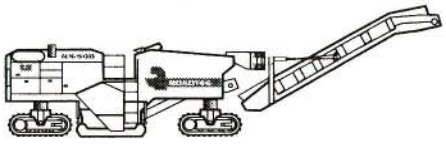
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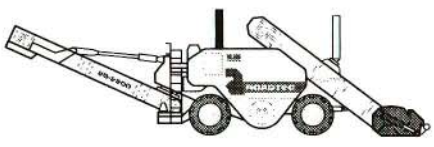
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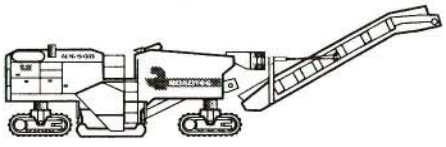
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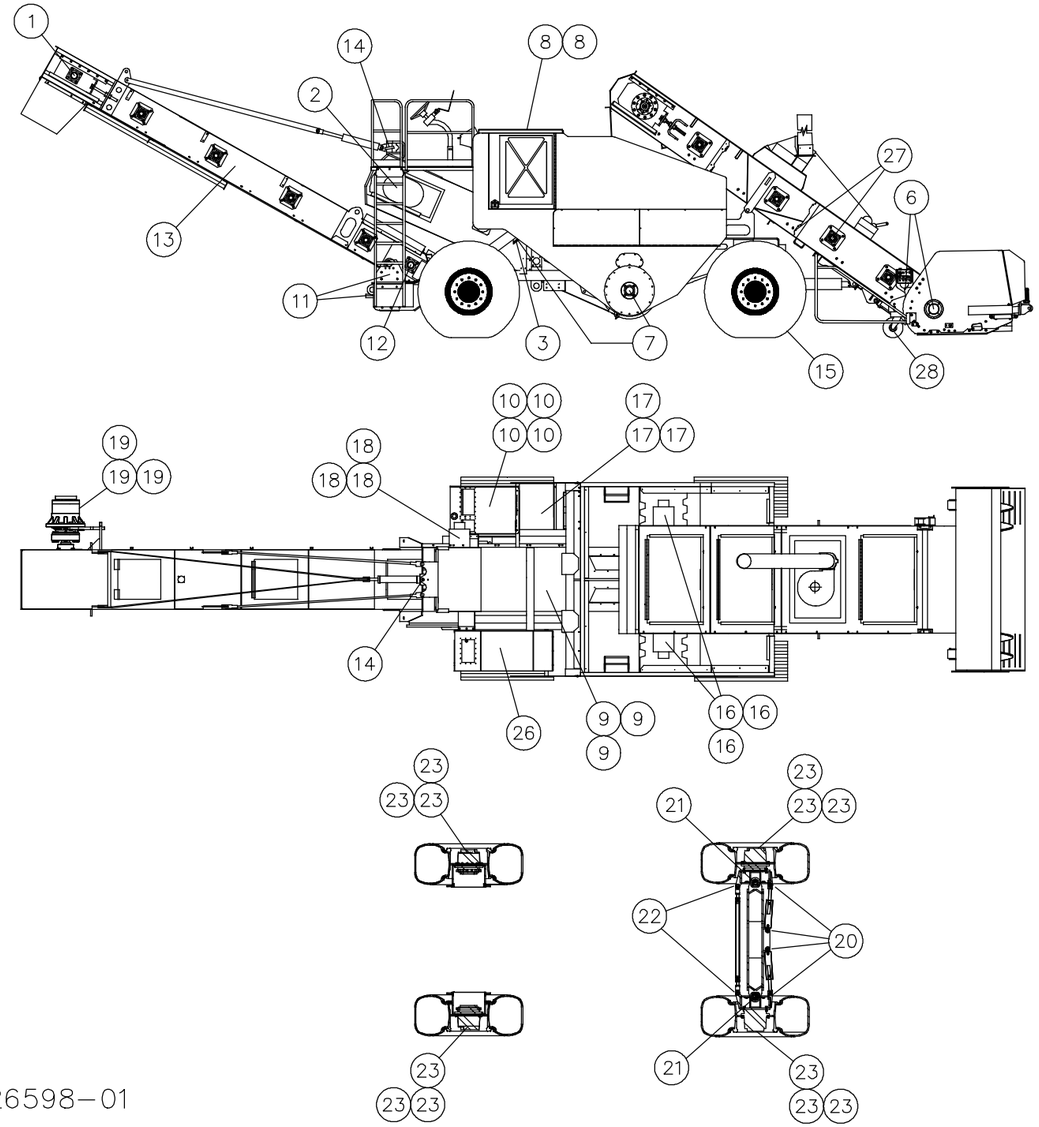




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SB-2500D LUBRICATION CHART (ENGLISH)



226598–01

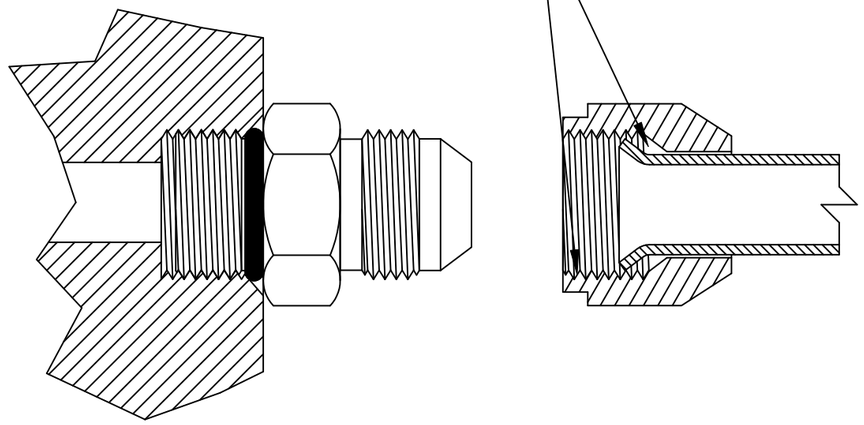
INTERVAL HOURS	REF NO	IDENTIFICATION	NO. OF POINTS	TYPE OF LUBRICATION	REMARKS
RED DAILY	1	C-3 HEADSHAFT	2	HTG	8 SHOTS (WHILE HOT)
	2	C-2 HEADSHAFT	1	HTG	8 SHOTS (WHILE HOT)
	3	C-2 IDLERS	4	HTG	5 SHOTS (WHILE HOT)
	6	C-1 TAILSHAFT	4	HTG	8 SHOTS (WHILE HOT)
	7	C-2 TAILSHAFT	4	HTG	8 SHOTS (WHILE HOT)
	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	C-3 PIVOT	4	HTG	5 SHOTS
	12	C-3 TAILSHAFT	2	HTG	8 SHOTS (WHILE HOT)
	13	C-3 IDLER BEARINGS	8	HTG	5 SHOTS (WHILE HOT)
	27	C-1 IDLER BEARINGS	8	HTG	5 SHOTS (WHILE HOT)
	28	C-1 CASTER WHEEL	4	HTG	3 SHOTS
YELLOW 50 HOURS	9	ENGINE AIR FILTER	2	N/A	CLEAN OR REPLACE
	9	ENGINE OIL AND FILER	1 EA	EO	CHANGE AT FIRST 50 HRS THEN EVERY 250 HRS
	9	FUEL FILTER	2	N/A	CHANGE AT FIRST 50 HRS THEN EVERY 250 HRS
	10	HYDRAULIC FILTERS	6	N/A	REPLACE ELEMENTS FIRST 50 HOURS THEN EVERY 250 HOURS
	14	C-3 LIFT PIVOT	1	HTG	5 SHOTS
	15	TIRES	4	75 p.s.i.	CHECK PRESSURE
	16	C-1 GEARBOX	2	GO	CHECK LEVEL
	17	PUMP DRIVE	1	GO	CHECK LEVEL
	18	C-2 GEARBOX	1	GO	CHECK LEVEL
	19	C-3 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

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	2	N/A	CHANGE
	10	HYDRAULIC TANK	1	HO	DRAIN ACCUMULATED WATER & REFILL
	10	HYDRAULIC FILTERS	6	N/A	REPLACE 2 ELEMENTS PER CANNISTER & H.P. FILTER
	10	HYDRAULIC TANK BREATHER FILTER	1	N/A	CHECK & REPLACE IF NECESSARY
	16	C-1 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	C-2 GEARBOX	1	GO	DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER
	19	C-3 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
BLUE 1000 HOURS	8	RADIATOR	1	50/50 ANTIFREEZE	DRAIN-CLEAN-REFILL
	10	HYDRAULIC TANK	1	HO	DRAIN & FLUSH OIL-CHANGE ALL FILTERS-CLEAN ALL BREATHERS
	16	C-1 GEARBOX	2	GO	DRAIN-FLUSH-REFILL
	17	PUMP DRIVE	1	GO	DRAIN-FLUSH-REFILL
	18	C-2 GEARBOX	1	GO	DRAIN-FLUSH-REFILL
	19	C-3 GEARBOX	1	GO	DRAIN-FLUSH-REFILL
	23	GEAR DRIVE W/PARK BRAKE	4	GO	DRAIN-FLUSH-REFILL

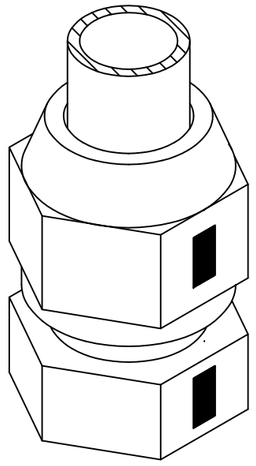
EO – ENGINE OIL–SAE 15W40–VALVOLINE PREMIUM BLUE, ALL–FLEET PLUS OR EQUIVALENT
HTG – HIGH TEMPERATURE GREASE–NGLI GRADE2–VALVOLINE CERULEAN, PALLADIUM, OR EQUIVALENT
HO – HYDRAULIC OIL–ISO VIS. GRADE 46–VALVOLINE ANTI–WEAR HYDRAULIC OIL OR EQUIVALENT
GO – GEAR OIL–EP–90 VALVOLINE HIGH PERFORMANCE GEAR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

Valvoline

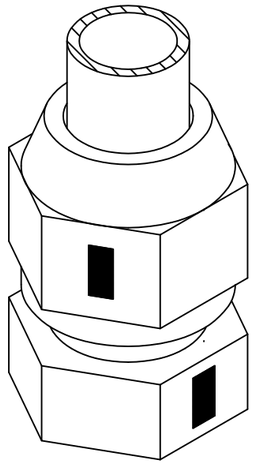
LUBRICATE THREADS AND BACKSIDE OF FLARE BEFORE CONNECTING TO FITTING.



EXAMPLE - #8 JIC HOSE END



SNUG JOINT WITH FLATS MARKED



TIGHT JOINT WITH 1 FLAT FROM FINGER TIGHT

JIC FITTING INSTALLATION

USING FLATS FROM FINGER TIGHT (F.F.F.T.) 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. HAND TIGHTEN TO SNUG CONNECTION. ANGULAR FEMALE SURFACE MUST BE SEATED OR IN LIGHT CONTACT W/MALE 37° SURFACE. ON LARGE FITTINGS, IT MAY BE NECESSARY TO USE A WRENCH TO PULL NUT AND SEATS INTO THIS INITIAL REFERENCE POSITION.

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 NECESSARY, 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	ASSEMBLY TORQUE (FT LB)	TUBE CONNECTION F.F.F.T.	SWIVEL NUT OR HOSE END F.F.F.T.
-4	12	2	2
-6	21	1-1/2	1-1/4
-8	45	1-1/2	1
-10	60	1-1/2	1
-12	85	1-1/4	1
-16	120	1	1
-20	170	1	1
-24	200	1	1
-32	270	1	1

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: INSTRUCTIONS - JIC FITTING ASSEMBLY

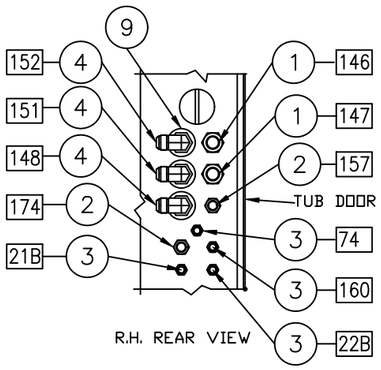
REQ'D PER | SHEET NO: 1 of 1 | FAB CODE | EFFECTIVE S/N: 000

DRAWN BY: DLS | CHECKED BY | DWG NO: 134914-02 | REV.: 0

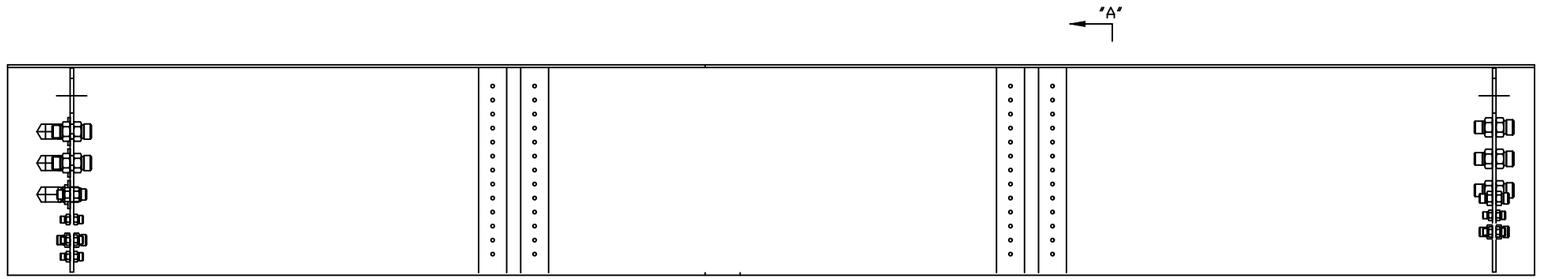
SCALE: NONE | DATE: 5/19/97

QTY	ITEM	IDENT	DESCRIPTION	N. WEIGHT	T. WEIGHT
14	1	83476-04	FIT ~ 12 JIC BULKHEAD UNION	0.60	8.40
4	2	83453-04	FIT ~ 8 JIC BULKHEAD UNION	0.25	1.00
22	3	83475-04	FIT ~ 6 JIC BULKHEAD UNION	0.14	2.80
6	4	99986	FIT ~ 12 JIC 90° BULKHEAD UNION	0.31	1.86
24	5	95966	CLAMP * 7/8"CUSHION-TUBE(3/8" BOLT)	X	X
22	6	16P29	CLAMP * BOLT SIZE 1/2"HOSE	X	X
46	7	89988-04	BOLT ~ 1/4-20 X 3/4 HEX (GR8)	X	X
46	8	83065	WASHER ~ 1/4 LOCK (SPRING STEEL)	X	X
6	9	83376-04	WASHER ~1 FLAT (STEEL)	X	X

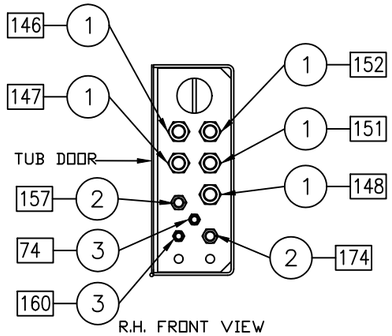
[X] SEE APPROPRIATE HOSE KIT FOR HOSE DESCRIPTIONS



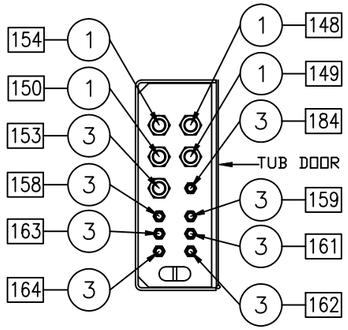
R.H. REAR VIEW



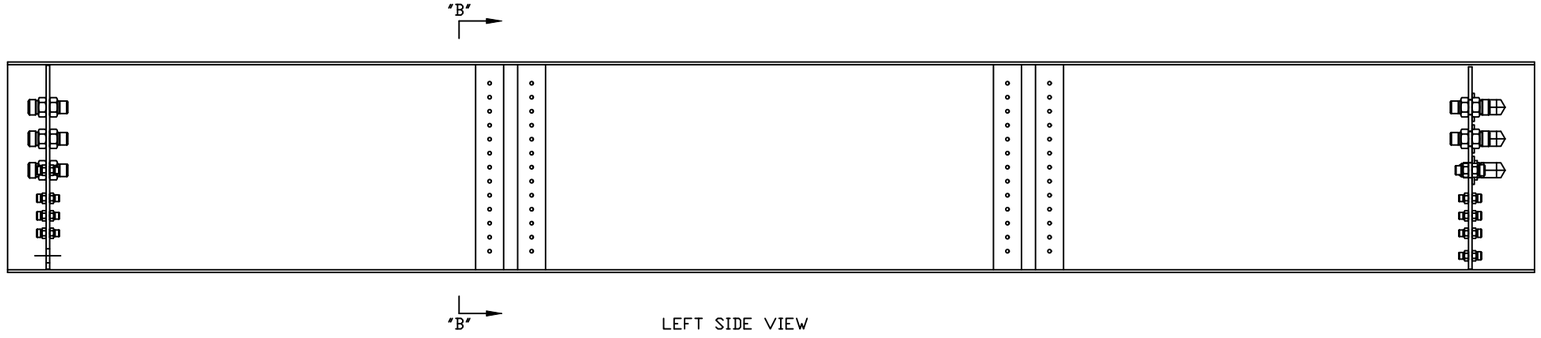
RIGHT SIDE VIEW



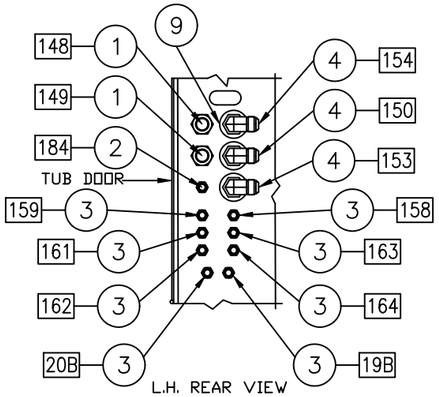
R.H. FRONT VIEW



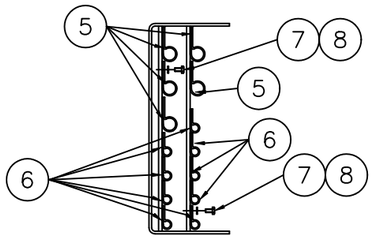
L.H. FRONT VIEW



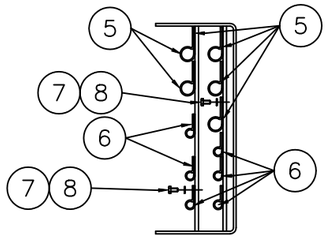
LEFT SIDE VIEW



L.H. REAR VIEW



VIEW "B-B"



VIEW "A-A"

REPLACES DWG. #217053-01

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

REV.	SN#	DATE	ISSUES	BY

ROADTEC

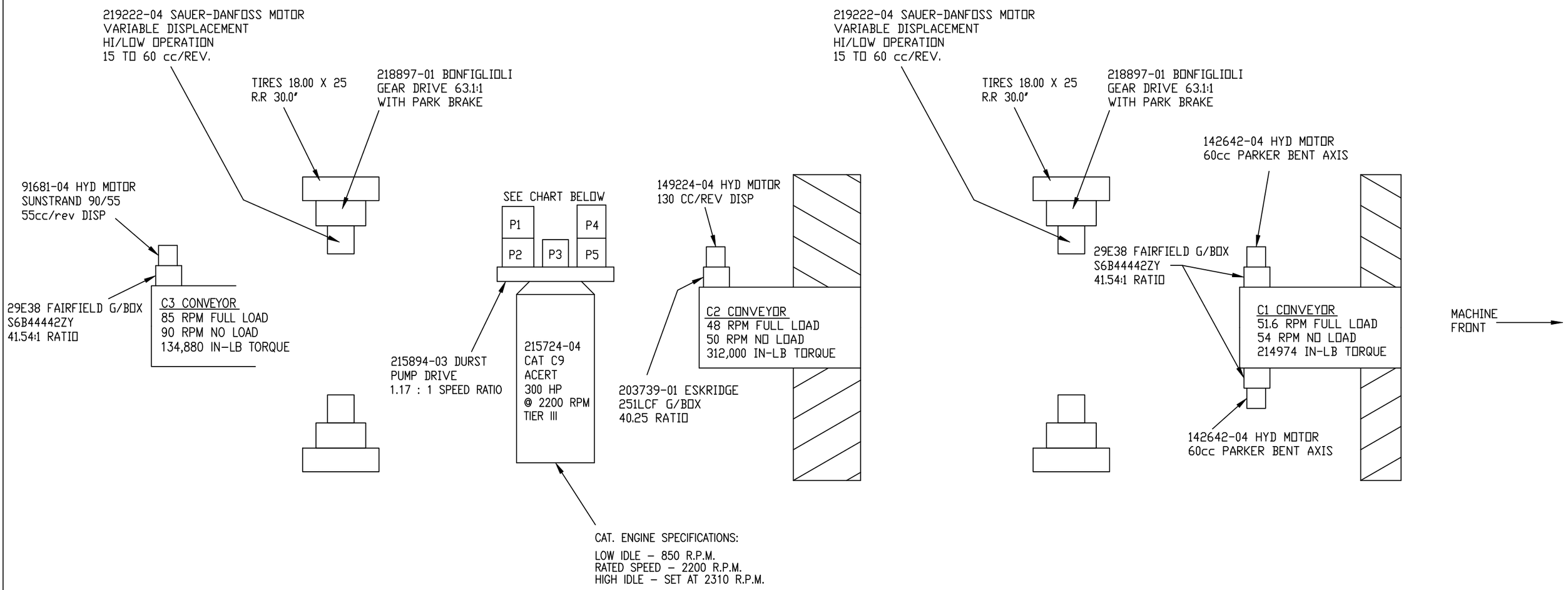
PART NAME: HYDRAULIC TUB SUB-ASSEMBLY

01 REQ'D PERSB-2500D | SHEET NO: 1 of 1 | FAB CODE: 615 | EFFECTIVE S/N:

DRAWN BY: STAYLOR | TOTAL WT. (LBS): | DWG NO: 226561-01 | REV: 0

SCALE: 3/16 | DATE: 10/13/08

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	29J94	C3 CONVEYOR	SAUER 90/75	5700 PSI	350 PSI	17 CC
P2	99814	C2 CONVEYOR	SAUER 90/100	5700 PSI	350 PSI	20 CC
P3	211743-04	AUXILLIARY	SAUER-DANFOSS	2500 PSI	N/A	N/A
P4	219675-04	TRANSMISSION	SAUER 90/100	6500 PSI	350 PSI	31 CC
P5	99814	C1 CONVEYOR	SAUER 90/100	5700 PSI	350 PSI	20 CC

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. # 221134-01 E.C.# 1630

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: SB-2500D SPEED CHART

01 REQ'D PER 2500D | SHEET NO 1 of 1 | FAB CODE 6151 | EFFECTIVE S/N 038,104

DRAWN BY JEH | CHECKED BY | DWG NO 226500-01 | REV. 0

SCALE 1 | DATE 10/07/08

Hose Type Codes

AS400 code	model	description
VAC	Parker 811 for sizes 20-32 / 881 for sizes 12 & 16….all w/43 series fittings	suction
LP	Parker 421	low pressure
	Parker 471TC for #4, #6 and #8 hose	medium pressure
STD	Parker 451TC for #12 and #16	medium pressure
HP	Parker 782TC	high pressure (5000 psi)
731	Parker 731-12 (Drawing must be made for these hoses)	high pressure (6000 psi)
SLEEVE	Partek "PS" series	ISO 6945 protective nylon
HT	Parker 943B	high temperature

SB-2500D DIRECT DRIVE

6 ST=STRAIGHT
39 90=ELBOW 90 DEGR
41 90LN=ELBOW LONG THROW 90 DEGREE
37 45=ELBOW 45 DEGREE

PARKER KIT #230820 BEGINNING SN 1091 EC# 1691
REVISION A (BACKWARD COMPATIBLE)

MASTER LIST BY HOSE NUMBER

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	CIRCUIT #	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN
1	BRAKES / FLOWGATES	130820S	BRAKE	2	0.375	STD	41	6x6 ST	6x6 LN 90	147462-04
2	BRAKES / FLOWGATES	146021S	BRAKE	2	0.375	STD	41	6x6 ST	6x6 90	147462-04
3	BRAKES / FLOWGATES	146021S	BRAKE	2	0.375	STD	41	6x6 ST	6x6 90	147462-04
4	BRAKES / FLOWGATES	210277S	BRAKE	2	0.375	STD	41	6x6 ST	6x6 ST	147462-04
5	BRAKES / FLOWGATES	146028S	BRAKE	2	0.375	STD	78	6x6 ST	6x6 90	147462-04
6	BRAKES DYNAMIC	129768S	R*DYNAMIC*BRAKE	2	0.25	STD	102	4x6 ST	4x6 90	206126-04
7	BRAKE/2-SP/DIFF/HOOD	130186S	HOOD RAISE*HLD BLK	4	0.25	STD	128	4x6 ST	4x6 90	206126-04
8	BRAKE/2-SP/DIFF/HOOD	204543S	HOOD RAISE*SUMP	4	0.25	STD	128	4x6 ST	4x6 LN 90	206126-04
9	BRAKE/2-SP/DIFF/HOOD	120967S	HOOD LOWER*TANK	4	0.25	STD	120	4x6 ST	4x6 ST	206126-05
10	BRAKES DYNAMIC	93640-04	JUMPER P-P	2	0.25	STD	16	4x6 ST	4x6 ST	NO SLEEVE
11	ASSIGNED AS A & B HOSES									
12	BRAKES / FLOWGATES	134973S	BRAKE	2	0.375	STD	112	6x6 ST	6x6 90	147462-04
13	BRAKES / FLOWGATES	93274-04S	BRAKE	2	0.375	STD	22	6x6 ST	6x6 90	147462-04
14	BRAKES / FLOWGATES	135627S	BRAKE	2	0.375	STD	25	6x6 ST	6x6 90	147462-04
15	C-3 DRIVE	145996S	C3*DRIVE*A	9	1	HP	118	16x16 ST	16x16 ST	206128-04
16	C-3 DRIVE	145995S	C3*DRIVE*B	9	1	HP	110	16x16 ST	16x16 ST	206128-04
17	C-3 DRIVE	145994	C3*DRIVE*MTR	9	1	HP	274	16x16 ST	16x16 ST	NO SLEEVE
18	C-3 DRIVE	145994	C3*DRIVE*MTR	9	1	HP	274	16x16 ST	16x16 ST	NO SLEEVE
19	ASSIGNED AS A & B HOSES									
20	ASSIGNED AS A & B HOSES									
21	ASSIGNED AS A & B HOSES									
22	ASSIGNED AS A & B HOSES									
23	C3 AUX. / C3 CLEANOUT DOOR	134031S	AUXILIARY	3	0.5	STD	41	8x8 ST	8x8 90	145052-04
24	C3 AUX. / C3 CLEANOUT DOOR	93293-04S	AUXILIARY	3	0.375	STD	35	6x6 ST	6x6 90	147462-04
25	C3 AUX. / C3 CLEANOUT DOOR	99631S	C3*SWING	3	0.25	STD	108	4x6 ST	4x6 90	206126-04
26	C3 AUX. / C3 CLEANOUT DOOR	99631S	C3*SWING	3	0.25	STD	108	4x6 ST	4x6 90	206126-04
27	C3 AUX. / C3 CLEANOUT DOOR	130199S	C3*LIFT	3	0.25	STD	160	4x6 ST	4x6 90	206126-04
28	C3 AUX. / C3 CLEANOUT DOOR	130199S	C3*LIFT	3	0.25	STD	160	4x6 ST	4x6 90	206126-04
29	UNASSIGNED									
30	UNASSIGNED									
31	ASSIGNED AS A & B HOSES									
32	BRAKES DYNAMIC	96871	JUMPER T-T	2	0.25	STD	14	4x6 ST	4x6 90	NO SLEEVE
33	BRAKES DYNAMIC	96871	JUMPER PLT-2	2	0.25	STD	14	4x6 ST	4x6 90	NO SLEEVE
34	TRACTION DRIVE	149500-04S	F*DRIVE*A	7	0.75	HP731	62	12x12 ST	12x12 ST	206127-04
35	TRACTION DRIVE	146331-04	R*DRIVE*A	7	0.75	HP731	48	12x12 ST	12x12 ST	NO SLEEVE

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	CIRCUIT #	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN
36	TRACTION DRIVE	146338-04S	R*DRIVE*B	7	0.75	HP731	105	12x12 ST	12x12 90	206127-04
37	TRACTION DRIVE	221856-04S	PMP*DRIVE*B	7	1	HP731	55	16x16 ST	16x16 ST	206128-04
38	TRACTION DRIVE	217150S	F*DRIVE*B	7	0.75	HP731	113	12x12 ST	12x12 90	206127-04
39	ENGINE	227319S	DRIVE*SUC	1	1.25	VAC	62	20x20 ST	20x20 90	148915-04
40	ASSIGNED AS A & B HOSES									
41	TRACTION DRIVE	121351S	R*DRIVE*CD	7	0.75	STD	100	12x12 ST	12x12 90	206127-04
42	BRAKE/2-SP/DIFF/C-2 COD/HOOD	129765S	DRIVE*REG	4	0.375	STD	54	6x6 ST	6x6 90	147462-04
43	UNASSIGNED									
44	UNASSIGNED									
45	BRAKE/2-SP/DIFF/HOOD	99720S	D*LOCK	4	0.375	STD	50	6x6 ST	6x6 ST	147462-04
46	BRAKE/2-SP/DIFF/HOOD	123658S	D*LOCK	4	0.375	STD	59	6x6 ST	6x6 ST	147462-04
47	BRAKE/2-SP/DIFF/C-2 COD/HOOD	120747S	AUXILIARY	4	0.5	STD	105	8x8 ST	8x8 90	145052-04
48	C-2 COD	217144	C2*COD	4	0.375	STD	65	6x6 ST	6x6 ST	147462-04
49	C-2 COD	201298S	C2*COD*RT	4	0.375	STD	98	6x6 ST	6x6 ST	147462-04
50	C-2 COD	206308S	C2*COD*PR	4	0.375	STD	87	6x6 ST	6x6 ST	147462-04
51	C-2 COD	99685	C2*COD	4	0.375	STD	67	6x6 ST	6x6 90	147462-04
52	C-2 COD	227355	C2*COD*JUMP	4	0.375	STD	62	6x6 ST	6x6 ST	147462-04
53	C-2 COD	131070	C2*COD*JUMP	4	0.375	STD	62	6x6 ST	6x6 90	147462-04
54	AUXILARY & OIL COOLER	134497S	E-Z START JUMPER	4	0.375	STD	11	6x6 ST	6x6 90	147462-04
55	STEERING / C1 LIFT	137729S	STEER*RT	5	0.375	STD	136	6x6 ST	6x6 LN 90	147462-04
56	STEERING / C1 LIFT	97803S	STEER*PR	5	0.375	STD	126	6x6 ST	6x6 90	147462-04
57	ASSIGNED AS A & B HOSES									
58	STEERING / C1 LIFT	99666	STEER*JUMP	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE
59	STEERING / C1 LIFT	99666	STEER*JUMP	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE
60	C2 DRIVE / OIL COOLER	201712S	COOLER*OUT	8	1.25	LP	114	20x20 ST	20x20 ST	148915-04
61	C2 DRIVE / OIL COOLER	217145S	COOLER*IN	8	1.25	LP	83	20x20 ST	20x20 ST	148915-04
62	FUME EXTRACTION	132285S	AUXILIARY	11	0.75	STD	84	12x12 ST	12x12 90	206127-04
63	ENGINE	201249S	AUXILIARY	1	1.5	VAC	46	24x24 ST	24x24 ST	147464-04
64	ENGINE	93331S	AUXILIARY	1	0.75	STD	54	12x12 ST	12x12 90	206127-04
65	ENGINE	141428S	C1*PUMP*CD	1	0.75	STD	44	12x12 ST	12x12 ST	206127-04
66	ENGINE	201250S	C2*PUMP*SUC	1	1.25	VAC	41	20x20 ST	20x20 90	148915-04
67	ENGINE	132286S	AUX*PUMP*CD	1	0.75	STD	28	12x12 ST	12x12 ST	206127-04
68	C2 DRIVE / OIL COOLER	120120S	C2*MTR*CD	8	0.75	STD	76	12x12 ST	12x12 90	206127-04
69	C2 DRIVE / OIL COOLER	218600S	C2*DRIVE*A	8	1.25	HP	78	20x20 ST	20x20 ST	206129-04
70	C2 DRIVE / OIL COOLER	218601S	C2*DRIVE*B	8	1.25	HP	72	20x20 ST	20x20 ST	206129-04
71	C3 DRIVE	120187S	C3*DRIVE*CD	9	0.75	STD	118	12x12 ST	12x12ST	206127-04
72	TRACTION DRIVE	227315-04	R*DRIVE*B	7	0.75	HP731	36	12x12 ST	12x12 90	206127-04
73	TRACTION DRIVE	227315-04	R*DRIVE*B	7	0.75	HP731	36	12x12 ST	12x12 90	206127-04
74	TRACTION DRIVE	227315-04	R*DRIVE*A	7	0.75	HP731	36	12x12 ST	12x12 90	206127-04
75	TRACTION DRIVE	227315-04	R*DRIVE*A	7	0.75	HP731	36	12x12 ST	12x12 90	206127-04
76	UNASSIGNED				0.75					
77	ENGINE	134047S	C3*DRIVE*CD	1	0.75	STD	66	12x12 ST	12x12 90	206127-04
78	ENGINE	201255S	C3*DRIVE*SUC	1	1	VAC	51	16x16 ST	16x16 90	206128-04
79	C1 DRIVE	201256-04S	L*C1*DRIVE*A	6	0.75	HP731	65	12x12 ST	12x12 90	206127-04
80	C1 DRIVE	204588S	L*C1*DRIVE*B	6	0.75	HP731	26	12x12 ST	12x12 90	206127-04
81	C1 DRIVE	201257-04S	R*C1*DRIVE*A	6	0.75	HP731	99	12x12 ST	12x12 90	206127-04
82	C1 DRIVE	201258-04S	R*C1*DRIVE*B	6	0.75	HP731	110	12x12 ST	12x12 90	206127-04
83	ENGINE	93323-04S	C2*DRIVE*CD	1	0.75	STD	43	12x12 ST	12x12 ST	206127-04
84	ENGINE	130654S	C1*DRIVE*SUC	1	1.25	VAC	74	20x20 ST	20x20 90	148915-04
85	C1 DRIVE	201275S	L*C1*DRIVE*CD	6	0.75	STD	36	12x12 ST	12x12 ST	206127-04
86	C1 DRIVE	217148S	R*C1*DRIVE*CD	6	0.75	STD	85	12x12 ST	12x12 90	206127-04
87	ENGINE	201297S	DURST*DR	1	0.5	STD	82	8x8 ST	8x8 90	145052-04
88	C1 AUXILIARY	146032	VIBRATOR	10	0.25	STD	144	4x6 ST	4x6 ST	206126-04
89	C1 AUXILIARY	208527	VIBRATOR	10	0.25	STD	140	4x6 ST	4x6 45	206126-04
90	C1 AUXILIARY	201278S	D*HOPPER	10	0.25	STD	134	4x6 ST	4x6 ST	206126-04
91	C1 AUXILIARY	148505S	D*HOPPER	10	0.25	STD	128	4x6 ST	4x6 ST	206126-04
92	C1 AUXILIARY	145430	D*HOPPER	10	0.25	STD	195	4x6 ST	4x6 ST	206126-04

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	CIRCUIT #	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN
93	C1 AUXILIARY	209681	D*HOPPER	10	0.25	STD	206	4x6 ST	4x6 ST	206126-04
94	C1 AUXILIARY	99646S	C1*AUX	10	0.5	STD	107	8x8 ST	8x8 90	145052-04
95	C1 AUXILIARY	99654S	C1*AUX	10	0.375	STD	107	6x6 ST	6x6 90	147462-04
96	ASSIGNED AS A & B HOSES									
97	ASSIGNED AS A & B HOSES									
98	C1 AUXILIARY	99665	C1*AUX	10	0.375	STD	26	6x6 ST	6x6 90	NO SLEEVE
99	C1 AUXILIARY	99666	C1*AUX	10	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE
100	C1 AUXILIARY	120164	C1*AUX	10	0.375	STD	23	6x6 ST	6x6 90	NO SLEEVE
101	C1 AUXILIARY	120826	C1*AUX	10	0.375	STD	23	6x6 ST	6x6 ST	NO SLEEVE
102	TRACTION DRIVE	130210S	F*DRIVE*CD*RH	7	0.5	STD	46	8x8ST	8x8 90	145052-04
103	TRACTION DRIVE	130210S	F*DRIVE*CD*LH	7	0.5	STD	46	8x8ST	8x8 91	145052-05
104	TRACTION DRIVE	97852S	R*DRIVE*CD	7	0.75	STD	40	12x12 ST	12x12 90	206127-04
105	TRACTION DRIVE	125617S	R*DRIVE*CD	7	0.75	STD	48	12x12 ST	12x12 90	206127-04
106	C1 DRIVE	201286	C1*MTR*CD	6	0.75	STD	162	12x12 ST	12x12 ST	NO SLEEVE
107	C1 DRIVE	201286	C1*MTR*CD	6	0.75	STD	162	12x12 ST	12x12 ST	NO SLEEVE
108	C1 DRIVE	201287-04	C1*MTR	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE
109	C1 DRIVE	201287-04	C1*MTR	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE
110	C1 DRIVE	201287-04	C1*MTR	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE
111	C1 DRIVE	201287-04	C1*MTR	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE
112	ENGINE	120119S	DRIVE*CD	1	0.75	STD	35	12x12 ST	12x12 ST	206127-04
113	ENGINE	141428S	ENG*OIL*DR	1	0.75	STD	44	12x12 ST	12x12 ST	206127-04
114	BRAKES DYNAMIC	129391S	R*DYN*BRAKE*RH	2	0.25	STD	30	4X4ST	4x6 ST	206126-04
115	BRAKES DYNAMIC	129391S	R*DYN*BRAKE*LH	2	0.25	STD	30	4X4ST	4x6 ST	206126-04
116	UNASSIGNED									
117	C3 DRIVE	127788	C3*MTR*CD	9	0.75	STD	274	12x12 ST	12x12 ST	NO SLEEVE
118	ENGINE	201289S	F*FXS*SUC	1	1	VAC	86	16x16 ST	16x16 90	206128-04
119	UNASSIGNED									
120	ENGINE	93621-04S	F*FXS*PR	1	0.5	STD	48	8x8 ST	8x8 90	145052-04
121	UNASSIGNED									
122	C3 AUX. / C3 CLEANOUT DOOR	93294-04	C3 SWING	3	0.25	STD	42	4x6 ST	4x6 90	NO SLEEVE
123	C3 AUX. / C3 CLEANOUT DOOR	93294-04	C3 SWING	3	0.25	STD	42	4x6 ST	4x6 90	NO SLEEVE
124	FUME EXTRACTION	201290S	FXS*AUX	11	0.5	STD	116	8x8 ST	8x8 ST	145052-04
125	BRAKES DYNAMIC	130288S	R*DYN*BRAKE*JUMPER	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04
126	BRAKES DYNAMIC	130288S	R*DYN*BRAKE*JUMPER	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04
127	BRAKES DYNAMIC	130288S	R*DYN*BRAKE*JUMPER	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04
128	BRAKES DYNAMIC	130288S	R*DYN*BRAKE*JUMPER	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04
129	FUME EXTRACTION	93413-04S	FXS*AUX	11	0.75	STD	50	12x12 ST	12x12 90	206127-04
130	FUME EXTRACTION	201291S	FXS*AUX	11	0.75	STD	115	12x12 ST	12x12 ST	206127-04
131	FUME EXTRACTION	130139S	FXS*AUX	11	0.5	STD	110	8x8 ST	8x8 ST	145052-04
132	C3 AUX. / C3 CLEANOUT DOOR	128974	C3*COD	3	0.25	STD	52	4x6 ST	4x6 90	NO SLEEVE
133	C3 AUX. / C3 CLEANOUT DOOR	122295	C3*COD	3	0.25	STD	48	4x6 ST	4x6 90	NO SLEEVE
134	C3 AUX. / C3 CLEANOUT DOOR	130200S	C3*COD	3	0.25	STD	102	4x6 ST	4x6 ST	206126-04
135	C3 AUX. / C3 CLEANOUT DOOR	130200S	C3*COD	3	0.25	STD	102	4x6 ST	4x6 ST	206126-04
136	C3 AUX. / C3 CLEANOUT DOOR	201293S	C3*COD	3	0.375	STD	35	6x8 ST	6x8 90	147462-04
137	C3 AUX. / C3 CLEANOUT DOOR	93293-04S	C3*COD	3	0.375	STD	35	6x6 ST	6x6 90	147462-04
138	C1 AUXILIARY	131019S	C1*COD	10	0.25	STD	64	4x6 ST	4x6 ST	206126-04
139	C1 AUXILIARY	97396S	C1*COD	10	0.25	STD	66	4x6 ST	4x6 90	206126-04
140	BRAKE/2-SP/DIFF/HOOD	220736S	R*PARK*BRAKE	4	0.25	STD	96	4x6 ST	4x6 90	206126-04
141	BRAKE/2-SP/DIFF/HOOD	120147S	R*LH*PARK*BRAKE	2	0.25	STD	45	4x6 ST	4x6 ST	206126-05
142	BRAKE/2-SP/DIFF/HOOD	134196S	F*LH*PARK*BRAKE	2	0.25	STD	59	4x6 ST	4x6 ST	206126-06
143	BRAKE/2-SP/DIFF/HOOD	120147S	R*RH*PARK*BRAKE	2	0.25	STD	45	4x6 ST	4x6 ST	206126-07
144	BRAKE/2-SP/DIFF/HOOD	134196S	F*RH*PARK*BRAKE	2	0.25	STD	59	4x6 ST	4x6 ST	206126-08
145	UNASSIGNED									
146	TRACTION DRIVE	201296-04	F*DRIVE*B	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE
147	TRACTION DRIVE	201296-04	F*DRIVE*A	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE
148	C1 DRIVE	201296-04	L*C1*DRIVE*PR	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE
149	C1 DRIVE	201296-04	L*C1*DRIVE*RT	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	CIRCUIT #	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN
150	TRACTION DRIVE	201296-04	DRIVE*PR	7	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE
151	TRACTION DRIVE	201296-04	DRIVE*RT	7	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE
152	TRACTION DRIVE	125466	F*DRIVE*CD	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE
153	TRACTION DRIVE	125466	DRIVE*CD	7	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE
154	C1 DRIVE	125466	L*C1*DRIVE*CD	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE
155	FUME EXTRACTION	125466	FXS*RT	11	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE
156	FUME EXTRACTION	93339-04	FXS*PR	11	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE
157	C1 AUXILIARY	93339-04	C1*AUX*RT	10	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE
158	STEERING / C1 LIFT	201298	L*STEER	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE
159	STEERING / C1 LIFT	201298	R*STEER	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE
160	C1 AUXILIARY	201298	C1*AUX*PR	10	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE
161	UNASSIGNED									
162	UNASSIGNED									
163	UNASSIGNED									
164	BRAKE/2-SP/DIFF/HOOD	134495	FR*PARK*BRAKE	4	0.25	STD	98	4x6 ST	4x6 ST	NO SLEEVE
165	FUME EXTRACTION	141179-04	FXS*PR	11	0.5	STD	20	8x8 ST	8x8 90	NO SLEEVE
166	TRACTION DRIVE	227316-04	R*DRIVE*B	7	0.75	HP731	98	12x12 ST	12x12 45	206127-04
167	TRACTION DRIVE	227316-04	R*DRIVE*B	7	0.75	HP731	98	12x12 ST	12x12 45	206127-04
168	TRACTION DRIVE	227317-04	R*DRIVE*A	7	0.75	HP731	115	12x12 ST	12x12 45	206127-04
169	TRACTION DRIVE	227317-04	R*DRIVE*A	7	0.75	HP731	115	12x12 ST	12x12 45	206127-04
170	FUME EXTRACTION	93331-04S	AUXILIARY	11	0.75	STD	54	12x12 ST	12x12 90	206127-04
171	C1 AUXILIARY	130191S	BAFFLE*OPEN	10	0.25	STD	72	4x6 ST	4x6 90	206126-04
172	C1 AUXILIARY	129837S	BAFFLE*OPEN	10	0.25	STD	58	4x6 ST	4x6 90	206126-04
173	FUME EXTRACTION	148614S	C1 FXS*CD	11	0.375	STD	110	6x6 ST	6x6 ST	206126-04
174	FUME EXTRACTION	201298	FXS*CD*PANEL	11	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE
175	FUME EXTRACTION	127111S	FXS*BH*TANK	11	0.375	STD	130	6x6 ST	6x6 ST	147462-04
176	FUME EXTRACTION	97800S	C2*FXS*TANK	11	0.375	STD	60	6x6 ST	6x6 ST	147462-04
177	UNASSIGNED									
178	C1 AUXILIARY	99660S	PUSH ROLLER	10	0.5	STD	110	8x8 ST	8X8 90	NO SLEEVE
179	C1 AUXILIARY	121546S	PUSH ROLLER	10	0.375	STD	120	6x6 ST	6x6 90	147462-04
180	C1 AUXILIARY	97859S	PUSH ROLLER	10	0.25	STD	100	4x6 ST	4x6 ST	206126-04
181	C1 AUXILIARY	129836S	PUSH ROLLER	10	0.25	STD	105	4x6 ST	4x6 ST	206126-04
182	C1 AUXILIARY	136270	PUSH ROLLER	10	0.25	STD	184	4x6 ST	4x6 ST	206126-04
183	C1 AUXILIARY	127046	PUSH ROLLER	10	0.25	STD	192	4x6 ST	4x6 ST	206126-04
184	C1 AUXILIARY	215255	VIBRATOR	10	0.25	STD	98	4x6 ST	4x6 ST	NO SLEEVE
185	C1 AUXILIARY	215256S	VIBRATOR	10	0.25	STD	87	4x6 ST	4x6 ST	206126-04
186	C1 AUXILIARY	137649	VIBRATOR	10	0.25	STD	245	4x4 ST	4x6 ST	206126-04
187	C1 AUXILIARY	215258S	VIBRATOR	10	0.25	STD	102	4x6 ST	4x6 45	206126-04
188	FUME EXTRACTION	130007S	FXS*AUX	11	0.75	STD	142	12x12 ST	12x12 90	206127-04
11A	BRAKES / FLOWGATES	129836S	BRAKE	2	0.25	STD	105	4x6 ST	4x6 ST	206126-04
11B	BRAKES / FLOWGATES	134033S	BRAKE	2	0.25	STD	96	4x6 ST	4x6 45	206126-04
19A	BRAKES / FLOWGATES	201220S	FLOWGATES	2	0.25	STD	9	4x6 ST	4x6 45	206126-04
19B	BRAKES / FLOWGATES	231534	FLOWGATES	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE
20A	BRAKES / FLOWGATES	201220S	FLOWGATES	2	0.25	STD	9	4x6 ST	4x6 45	206126-04
20B	BRAKES / FLOWGATES	231535	FLOWGATES	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE
21A	BRAKES / FLOWGATES	217149S	FLOWGATES	2	0.25	STD	112	4x6 ST	4x6 LN 90	206126-04
21B	BRAKES / FLOWGATES	231534	FLOWGATES	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE
22A	BRAKES / FLOWGATES	128022S	FLOWGATES	2	0.25	STD	112	4x6 ST	4x6 90	206126-04
22B	BRAKES / FLOWGATES	231535	FLOWGATES	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE
31A	BRAKE/2-SP/DIFF/HOOD	120107S	F*PARK*BRAKE	4	0.25	STD	34	4x6 ST	4x6 ST	206126-04
31B	BRAKE/2-SP/DIFF/HOOD	204038	F*PARK*BRAKE	4	0.25	STD	80	4x6 ST	4x6 45	206126-04
40A	TRACTION DRIVE	131416S	F*DRIVE*CD	7	0.75	STD	84	12x12 ST	12x12 ST	206127-04
40B	TRACTION DRIVE	127141S	F*DRIVE*CD	7	0.75	STD	74	12x12 ST	12x12 90	206127-04
54A	STEERING / C1 LIFT	134503S	L*STEER	5	0.375	STD	156	6x6 ST	6x6 LN 90	147462-04
54B	STEERING / C1 LIFT	224375S	L*STEER	5	0.375	STD	96	6x6 ST	6x6 45	147462-04
57A	STEERING / C1 LIFT	128235S	R*STEER	5	0.375	STD	156	6x6 ST	6x6 90	147462-04
57B	STEERING / C1 LIFT	224375S	R*STEER	5	0.375	STD	96	6x6 ST	6x6 45	147462-04

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	CIRCUIT #	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN
96A	STEERING / C1 LIFT	120747S	C1*LIFT	5	0.5	STD	105	8x8 ST	8x8 90	145052-04
96B	STEERING / C1 LIFT	200387S	C1*LIFT	5	0.5	STD	120	8x8 ST	8x8 45	145052-04
97A	STEERING / C1 LIFT	217151S	C1*LIFT	5	0.375	STD	97	6x6 ST	6x6 LN 90	147462-04
97B	STEERING / C1 LIFT	217152S	C1*LIFT	5	0.375	STD	120	6x6 ST	6x6 45	147462-04

MISCELLANEOUS ITEMS SHIPPED IN HOSE KIT FROM PARKER

ROADTEC PART#	DESCRIPTION	QTY		WHERE USED
134613-04	GREASE LINE ~ 1/4 X 102" W/4 JIC SW	2		C-2 INNER FOOTSHAFT BRNGS
134178-04	GREASE LINE ~ 1/4 X 85" W/4 JIC SW	2		C-1 REAR IDLER BRNGS
144367-04	GREASE LINE ~ 1/4 X 36" W/4 JIC SW	4		C-2 IDLER BRNGS
144367-04	GREASE LINE ~ 1/4 X 36" W/4 JIC SW	2		C-3 HEADSHAFT BRNGS
134227-04	GREASE LINE ~ 1/4 X 24.5" W/4 JIC SW	2		C-1 CENTER IDLER BRNGS
149681-04	GREASE LINE ~ 1/4 X 68" W/4 JIC SW	2		DUMP HOPPER INNER BRNGS
131913-04	VALVE ~ 2 WAY BALL 6 SAE	1		BRAKE HYDRAULICS
89010-04	VALVE ~ 2 WAY BALL 1/4 N.P.T.	1		WASHDOWN
134217-04	GREASE LINE ~ 1/4 X17 1/2" W/4 JIC SW	2		C-3 PIVOT BOX TUBE

REVISION	DATE	DESCRIPTION	BY
A	11/24/2009	CHANGED HOSE TYPE FROM STD TO HT. HOSE NUMBERS 19B,20B,21B,22B	JEH

HOSE CHANGES, PREVIOUS DESCRIPTIONS

19B	BRAKES / FLOWGATES	126924S	FLOWGATES	2	0.25	STD	74	4x6 ST	4x6 ST	206126-04
20B	BRAKES / FLOWGATES	93603-04S	FLOWGATES	2	0.25	STD	66	4x6 ST	4x6 ST	206126-04
21B	BRAKES / FLOWGATES	126924S	FLOWGATES	2	0.25	STD	74	4x6 ST	4x6 ST	206126-04
22B	BRAKES / FLOWGATES	93603-04S	FLOWGATES	2	0.25	STD	66	4x6 ST	4x6 ST	206126-04

MANUAL OVERRIDE
"B" "0" "A"

M5 M4 X1 X2 M3 PROPEL PUMP

M1

A FORWARD

6500 PSI

67.0 GPM MAX

21.1 GPM

2574 RPM
FULL LOAD

6.10 CID
100 CC

1.89 CID
31 CC

350 PSI

6500 PSI

M2

B

L1 S L2

M6 M4 M3 M1

A

MAX DISP

ELECTRIC SHIFT

M9

X3,M5

M2

B

L1,L2

REAR DRIVES

FRONT DRIVES

OIL COOLER
300 PSI MAX

10 MICRON
SUCTION
FILTER

RETURN
FILTER
3 MICRON
ABSOLUTE

SEE SHEET 4 FOR HOOD CIRCUIT

DE PLT B DL S2 S1

T1

P

T2

ø0.040

ø0.046

350 PSI

G

FROM AUX. PRESSURE MANIFOLD

HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

PROPEL CIRCUIT

REPLACES DWG #226499-01 EC# 1691

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
SB 2500D HYDRAULIC

01 REQ'D PER 2500D

SHEET NO: 1 of 6

FAB CODE: 615

EFFECTIVE S/N: 1091

DRAWN BY: JEH

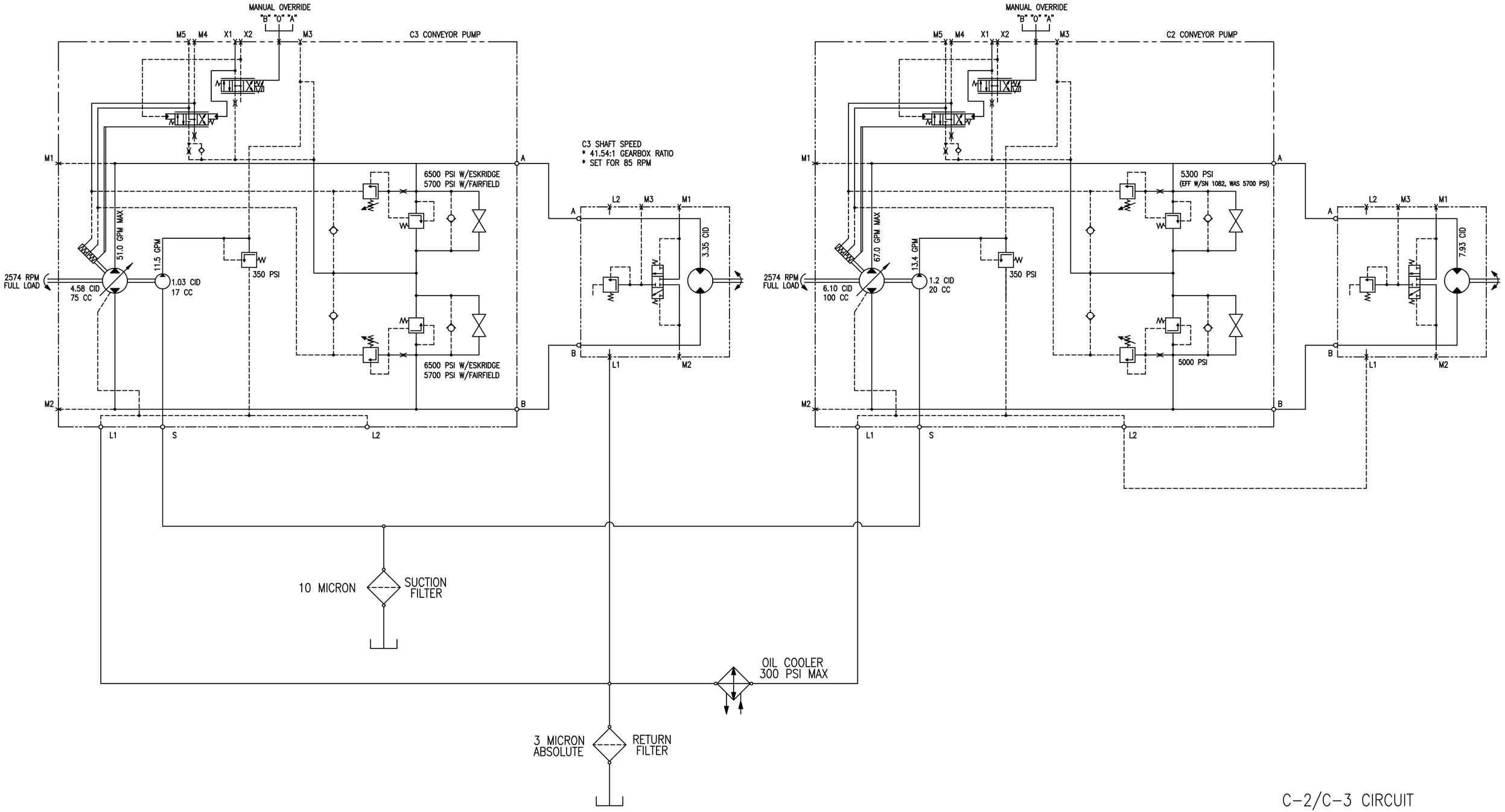
CHECKED BY:

SCALE: 3/4

DATE: 9/24/09

DWG NO: 230745-01

REV: 0



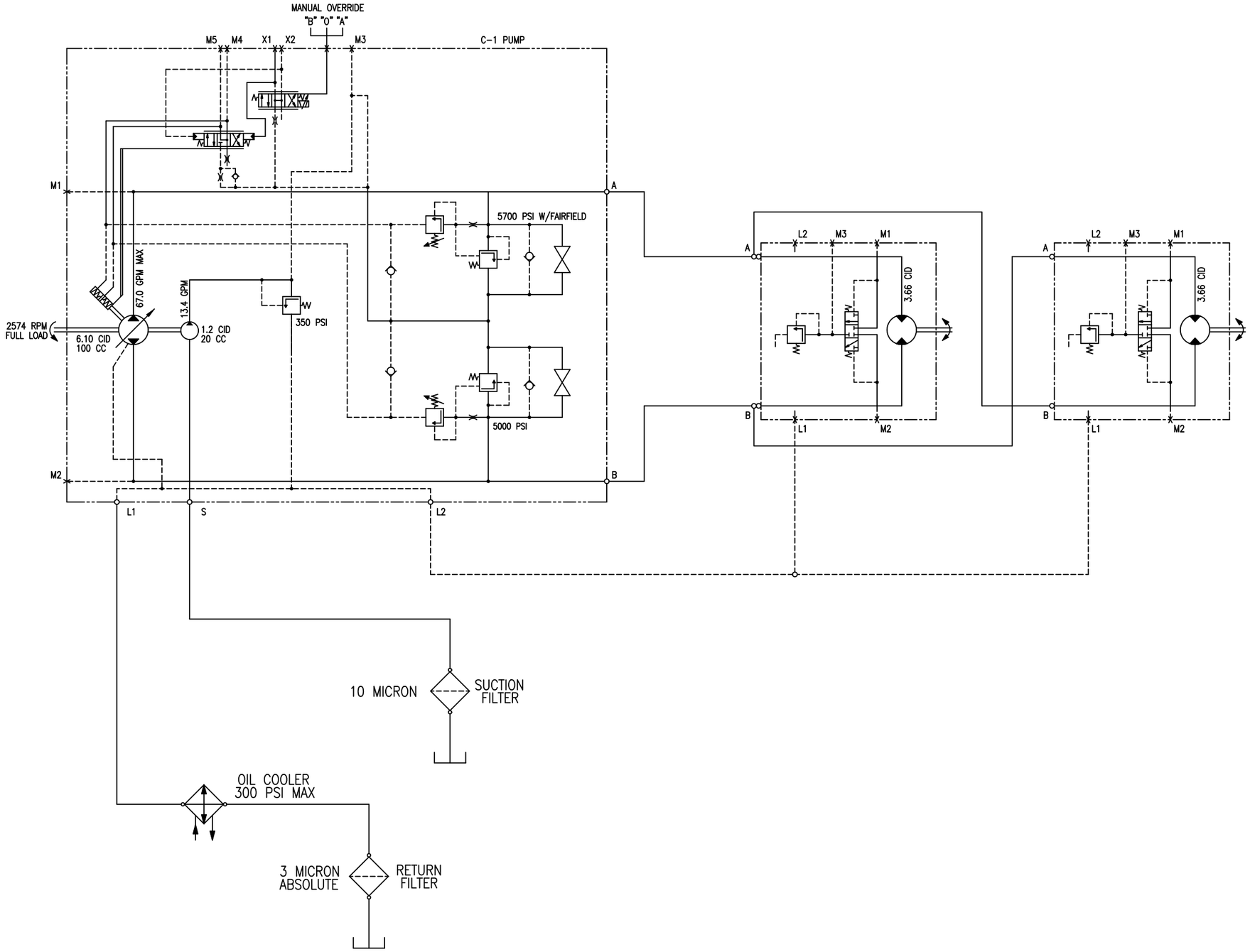
C-2/C-3 CIRCUIT

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

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

ROADTEC

PART NAME: SCHEMATIC SB 2500D HYDRAULIC			
01 REQ'D PER 2500D	SHEET NO: 2 of 6	FAB CODE: 615	EFFECTIVE S/N: 1091
DRAWN BY: JEH	CHECKED BY:		
SCALE: 3/4	DATE: 9/24/09	DWG NO: 230745-01	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'G. BY	APPR. BY

ROADTEC

PART NAME: SCHEMATIC SB 2500D HYDRAULIC			
01 REQ'D PER 2500D	SHEET NO: 3 of 6	FAB CODE: 615	EFFECTIVE S/N: 1091
DRAWN BY: JEH	CHECKED BY:		
SCALE: 3/4	DATE: 9/24/09	DWG NO: 230745-01	REV: 0

HOOD CYLINDER

0.0292

P.O. CHECK

HAND PUMP

DE PLT B DL S2 S1

T1 P T2 G

ø0.040 ø0.046 350 PSI

HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

EASY START AUXILARY BYPASS
PART NUMBER 212947-03

"A"

"B"

C-1 HOPPER CYLINDERS 12 GPM TYP

C-1 CLEANOUT 1 GPM TYP

C-1 BAFFLE CYLINDER

(OPTIONAL) TRUCK HITCH 8 GPM TYP

VIBRATION MOTOR

1/16 1/16 1/32 1/16 1/32

2 GPM FIXED

3/64

P T T

1000 TO 2500 PSI ONLY WITH TRUCK HITCH OPTION SET AT 1000 PSI

(OPTIONAL) TRUCK HITCH SOLENOID VALVE

C-1 HOPPER SOLENOID VALVE

C-1 CLEANOUT SOLENOID VALVE

C-1 BAFFLE SOLENOID VALVE

C1 HOPPER VIBRATOR VALVE

C1 HOPPER CONTROL
MANIFOLD PART NO.
211538-01

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

10 MICRON PRESSURE FILTER

2500 PSI

AUXILIARY PUMP

B

30.6 GPM MAX

2574 RPM FULL LOAD

2.75 CID

45 CC

L1 L

100 MESH SUCTION STRAINER

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 SB 2500D HYDRAULIC

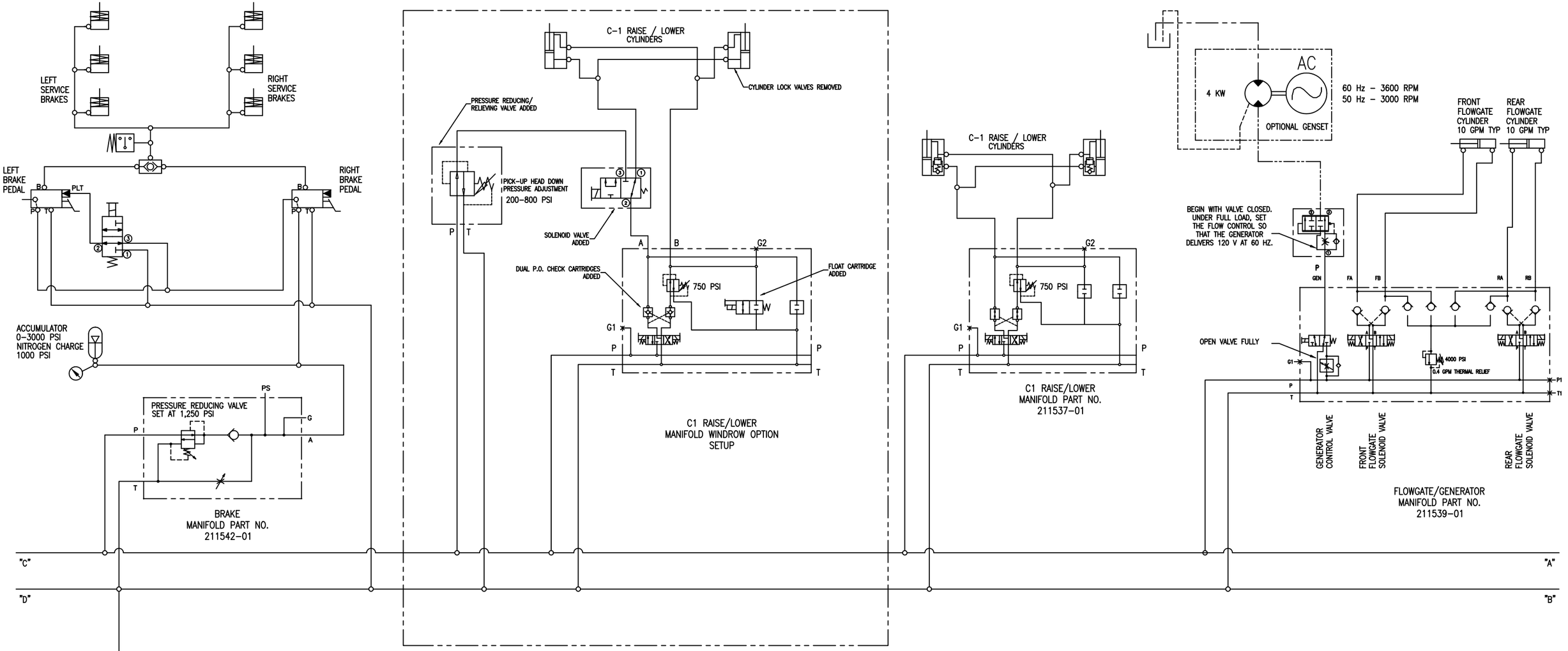
01 REQ'D PER 2500D

SHEET NO: 4 of 6 | FAB CODE: 615 | EFFECTIVE S/N: 1091

DRAWN BY: JEH | CHECKED BY:

SCALE: 3/4 | DATE: 9/24/09

DWG NO: 230745-01 | REV.: 0



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

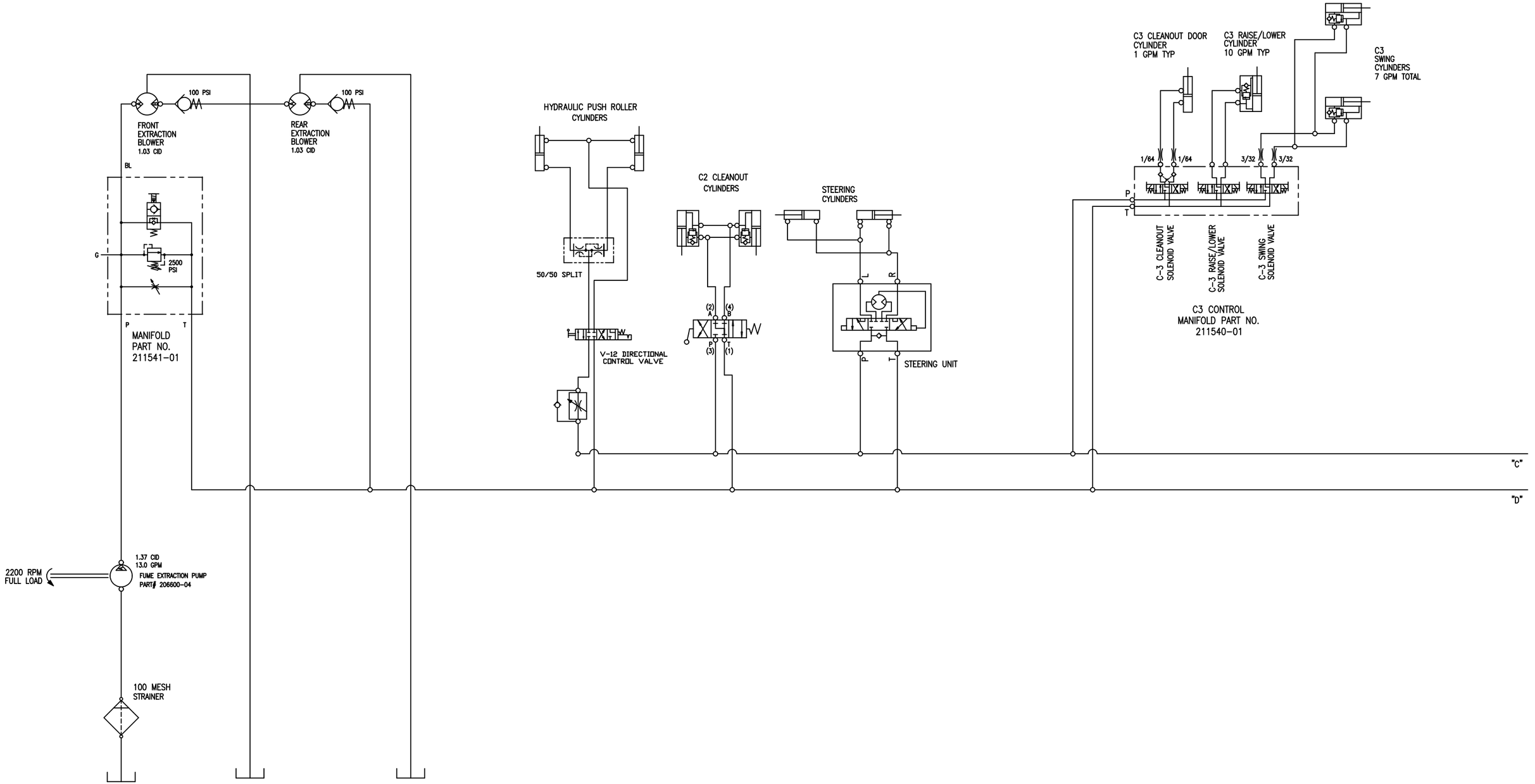
ROADTEC

PART NAME: SCHEMATIC SB 2500D HYDRAULIC

01 REQ'D PER 2500D | SHEET NO 5 of 6 | FAB CODE 615 | EFFECTIVE S/N 1091

DRAWN BY JEH | CHECKED BY | DWG NO 230745-01 | REV. 0

SCALE 3/4 | DATE 9/24/09



AUXILIARY CIRCUIT (CON'T)/FXS 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 SB 2500D HYDRAULIC

01 REQ'D PER 2500D

SHEET NO: 6 of 6 | FAB CODE: 615 | EFFECTIVE S/N: 1091

DRAWN BY: JEH | CHECKED BY:

DWG NO: 230745-01 | REV.: 0

SCALE: 3/4 | DATE: 9/24/09

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	K990
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	A234
				43	
REMOTE SHUTDOWN	WHITE	16	F716	44	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	K900
				51	
+ BATTERY UNSWITCHED	ORANGE	16	150	52	BECM
+ BATTERY UNSWITCHED	ORANGE	16	150	53	BECM
75% OVERSPEED VERIFY SWITCH	PINK	16	387	54	
+ BATTERY UNSWITCHED	ORANGE	16	150	55	BECM
PTO ENABLE SWITCH	PURPLE	16	381	56	GND
				57	
PTO RAMP UP/SET SWITCH	GREEN	16	G955	58	G955
NOT USED	PINK	16	E798	59	
PTO RAMP DOWN/RESUME SWITCH	WHITE	16	G967	60	G967
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

CAT DATALINK CONNECTOR
9
GND
A POWER
B GROUND
C J1939 SHIELD
D CDL+
E CDL–
F J1939–
G J1939+
120 OHM

SHLD
+
–
C
A
B
3–PIN DEUTSCH
SHLD
+
–
MURPHY POWERVIEW POWER AND CAN HARNESS

6–PIN DEUTSCH
24V1
BACKLIGHT
GND
1
5
6
MURPHY POWERVIEW POWER AND CAN HARNESS

CAN +
CAN –
GND
V +
MURPHY

CAN +
CAN –
120 OHM
ENGINE RPM GAUGE

ENGINE HARNESS GROUND DISCONNECT SWITCH

SB–2500D SER# 1038
SB–2500D SER# 1044 ON PRODUCTION

THIS DWG REPLACES 226711–01

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

REV.	SN#	DATE	ISSUES	BY
A	1091	12–15–09	REMOVED CONTACTS OF RELAY 10 FROM BRAKE CIRCUIT	KDM

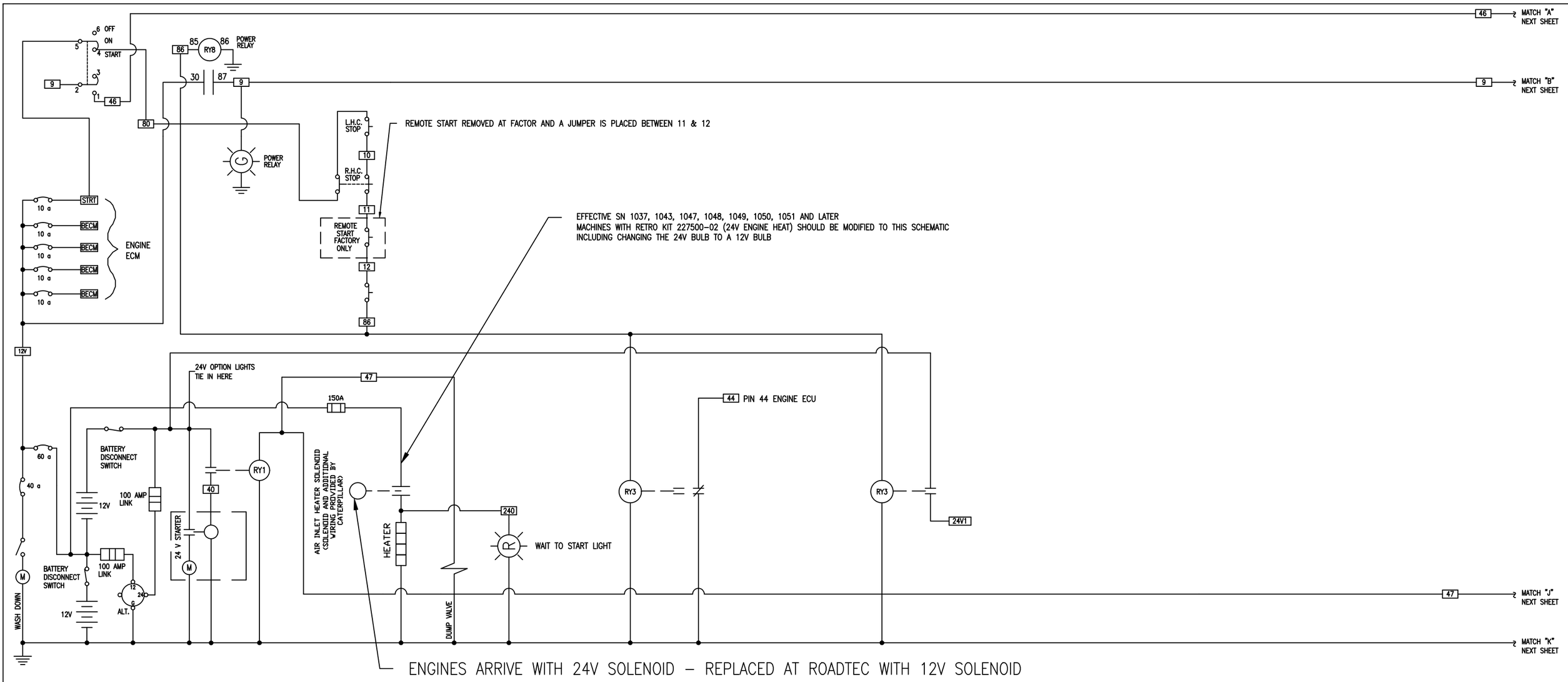
ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB–2500D – CAT ENGINE

1 REQ'D PER: SB2500D | SHEET NO: 1 OF 5 | FAB CODE: 603 | EFFECTIVE S/N DATE: 1091 AS01

DRAWN BY: KDM | TOTAL WT. (LBS): | SCALE: 1=1 | DATE: 9–21–09

DWG NO: 230667–01 | REV: A



LEGEND

- = SOLENOID (Y #)
- = NORMALLY OPEN SWITCH (N.O.)
- = LIMIT SWITCH (LS #)
- = PRESSURE SWITCH (PS #)
- = TEMPERATURE SWITCH (TS #)
- = 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
- ELEV = ELEVATION
- (P #) = PLUG
- — — = OPTIONAL ITEMS (EXCEPT SWITCH BORDERS, RELAYS, LIMIT SWITCHES, JUMPERS)
- = PUMP COIL
- = TEMP. SENDING UNIT
- = RELAY

RELAY LEGEND

RY1 – START ASSIST
RY2 – NEUTRAL START
RY3 – ENGINE SHUT DOWN
RY7 – HORN
RY8 – MAIN POWER
RY9 – LATCHING (SPEED SHIFT)
RY10 – NEUTRAL BRAKE

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REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	

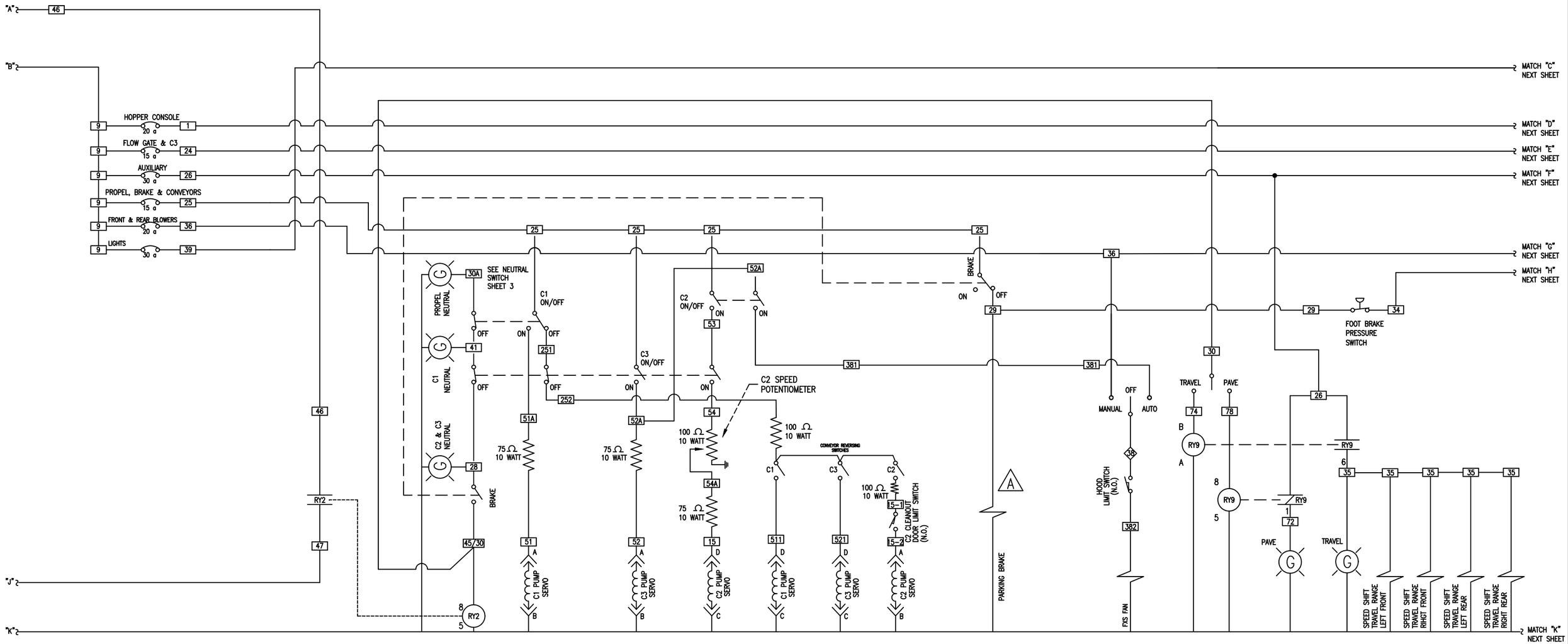
ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D – CAT ENGINE

1 REQ'D PER SB2500D | SHEET NO 2 OF 5 | FAB CODE 603 | EFFECTIVE S/N 1091

DRAWN BY KDM | TOTAL WT. (LBS) | DWG NO 230667-01 | REV. A

SCALE 1=1 | DATE 9-21-09



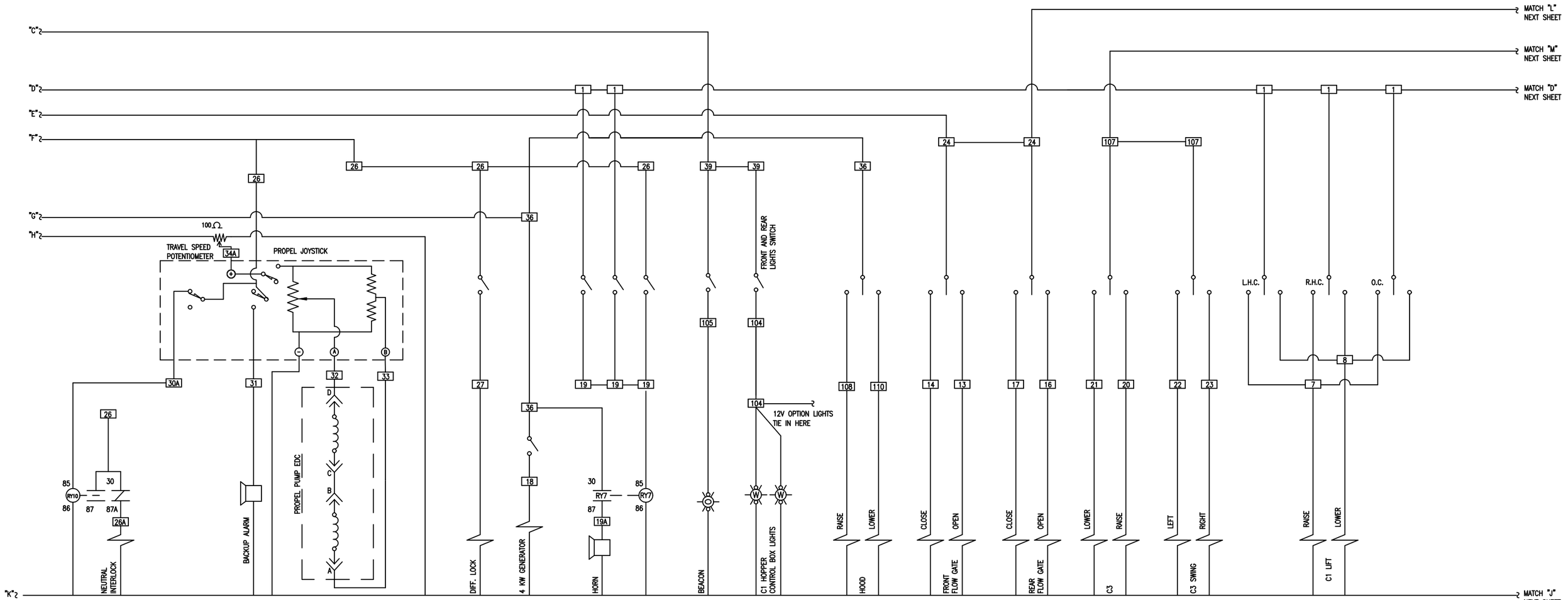
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D – CAT ENGINE

1 REQ'D PER SB2500D	SHEET NO 3 OF 5	FAB CODE 603	EFFECTIVE S/N 1091
DRAWN BY KDM	TOTAL WT. (LBS)	DWG NO 230667-01	REV. A
SCALE 1=1	DATE 9-21-09		



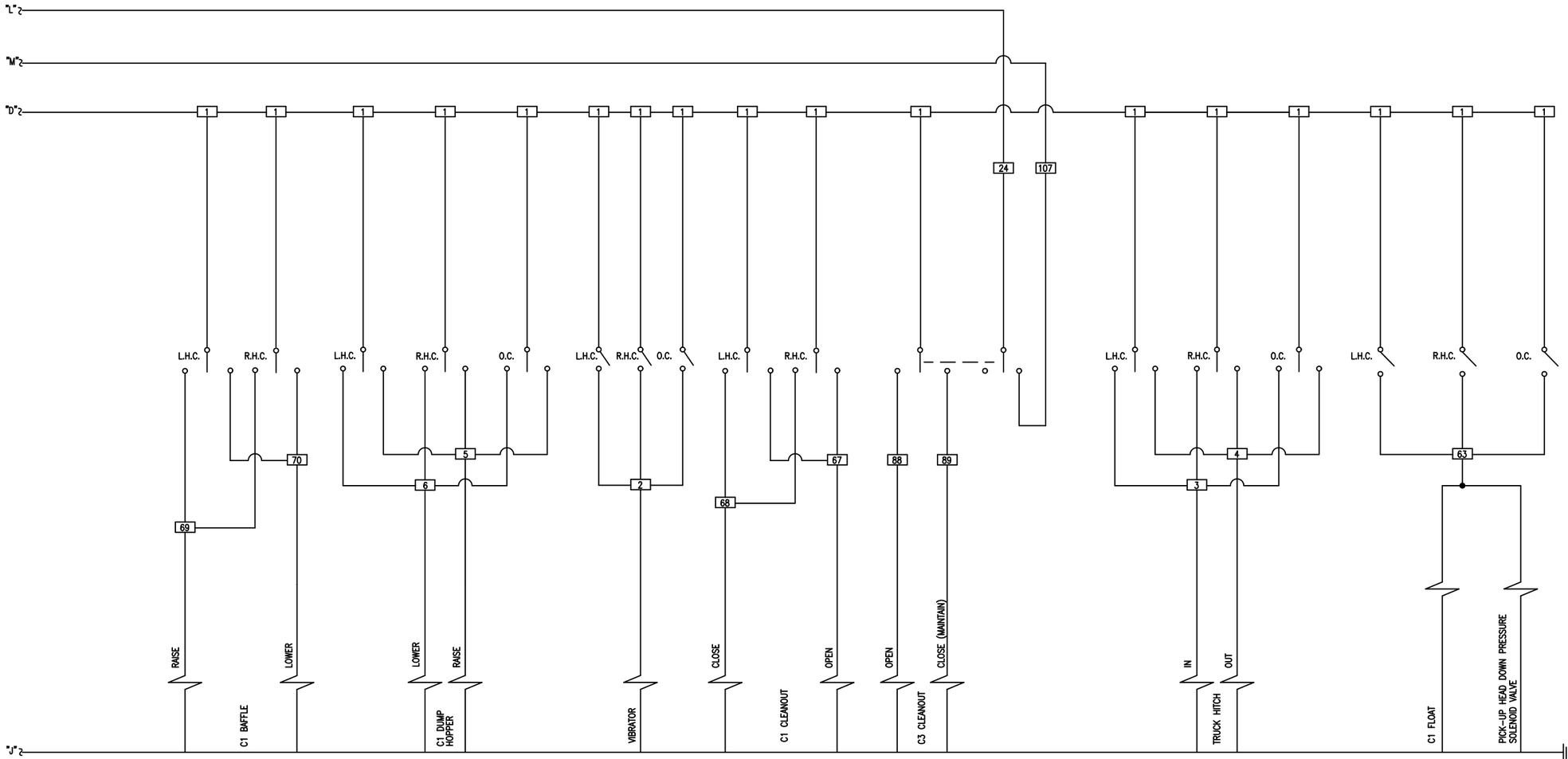
all fractional dim's ± 1/32" – all decimal dim's ± .005 unless noted

REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D – CAT ENGINE

1 REQ'D PER SB2500D	SHEET NO 4 OF 5	FAB CODE 603	EFFECTIVE S/N 1091
DRAWN BY KDM	TOTAL WT. (LBS)	DWG NO 230667-01	REV. A
SCALE 1=1	DATE 9-21-09		



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

REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D – CAT ENGINE

1 REQ'D PER SB2500D	SHEET NO 5 OF 5	FAB CODE 603	EFFECTIVE S/N 1091
DRAWN BY KDM	TOTAL WT. (LBS)	DWG NO 230667-01	REV. A
SCALE 1=1	DATE 9-21-09		