ROADTEC SB-2500D MATERIAL TRANSFER VEHICLE



PARTS MANUAL

P.N. 217000-O
S/N. 1251 & 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** _____

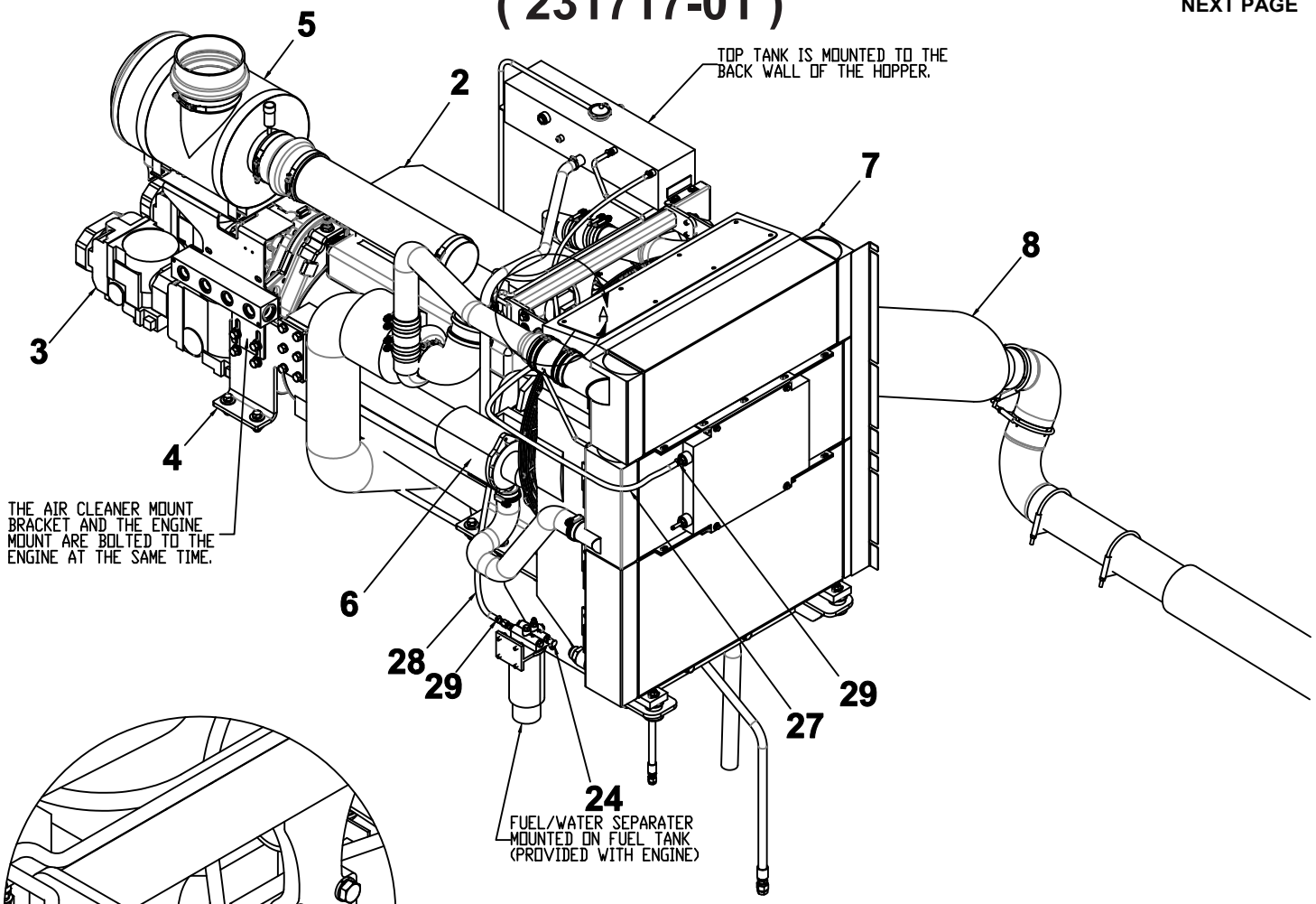
MACHINE MODEL:
SERIAL NO.:
CATALOG NO.:
ENGINE MAKE:
SERIAL NO.:
MODEL NO.:

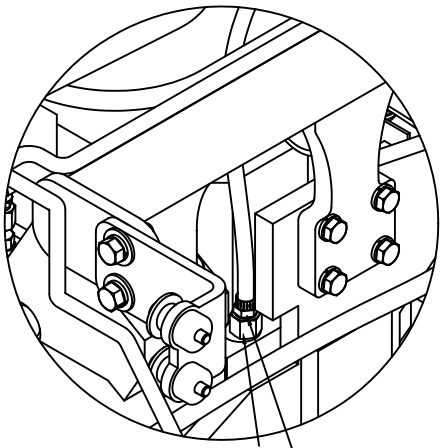
SECTION 1 : ENGINE

ASSEMBLY	PART NO.	S/N	PAGE NO.
ENGINE	231717-01	1109 & UP	1.1
ENGINE MOUNTS	216164-01		1.5
RADIATOR	227044-01	868 & UP	1.7
THERMOSTAT BY-PASS KIT	226122-01		1.11
EXHAUST	221153-01		1.12
AIR INTAKE	217189-01		1.13
PUMPS	231745-01	1109 & UP	1.15
DURST PUMP DRIVE	215894-03		1.17
C-1 & C-2 PUMP	99814		1.19
C-3 PUMP	29J94		1.21
AUXILIARY PUMP	211743-04		1.23
PROPEL PUMP	219675-04		1.25
DURST OIL DRAIN	142903-01		1.27

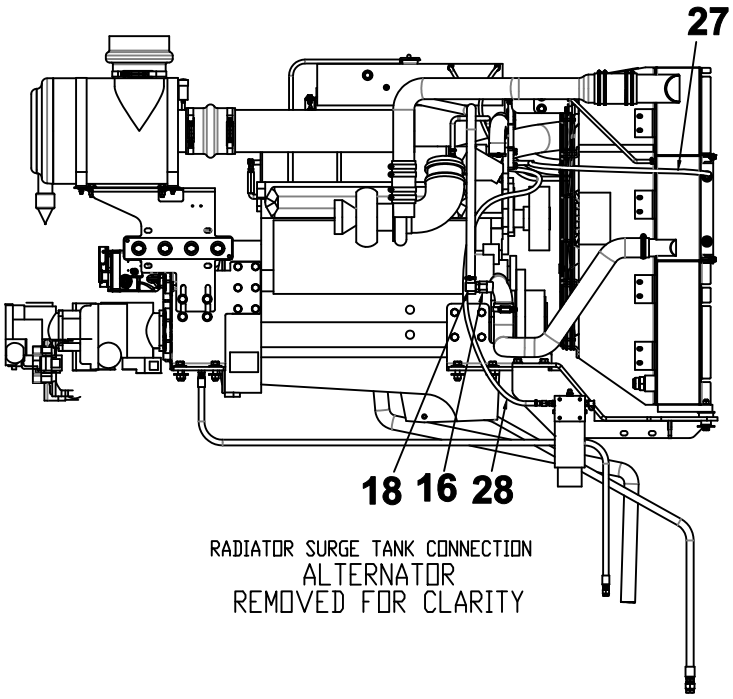
SB-2500D ENGINE ASSEMBLY
(231717-01)

NEXT PAGE





TOP COOLANT VENT
DETAIL A

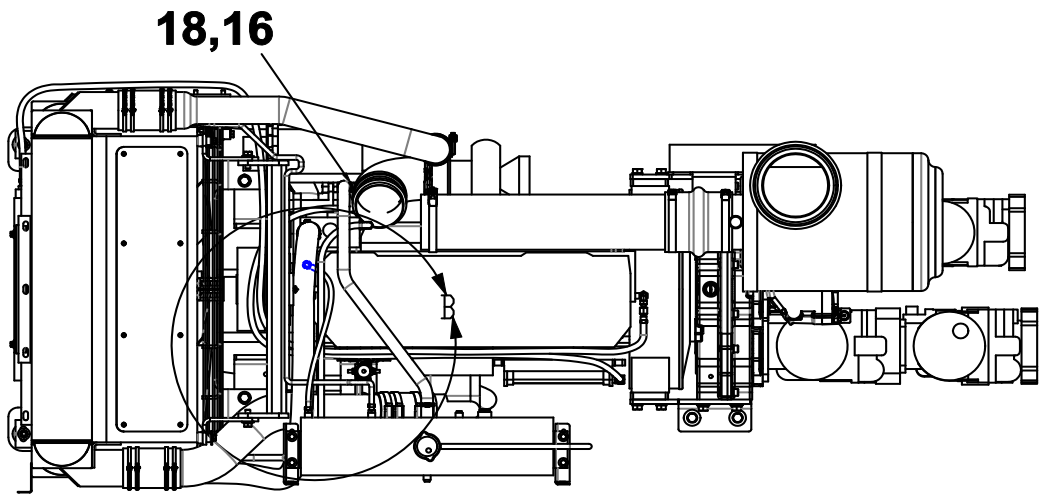


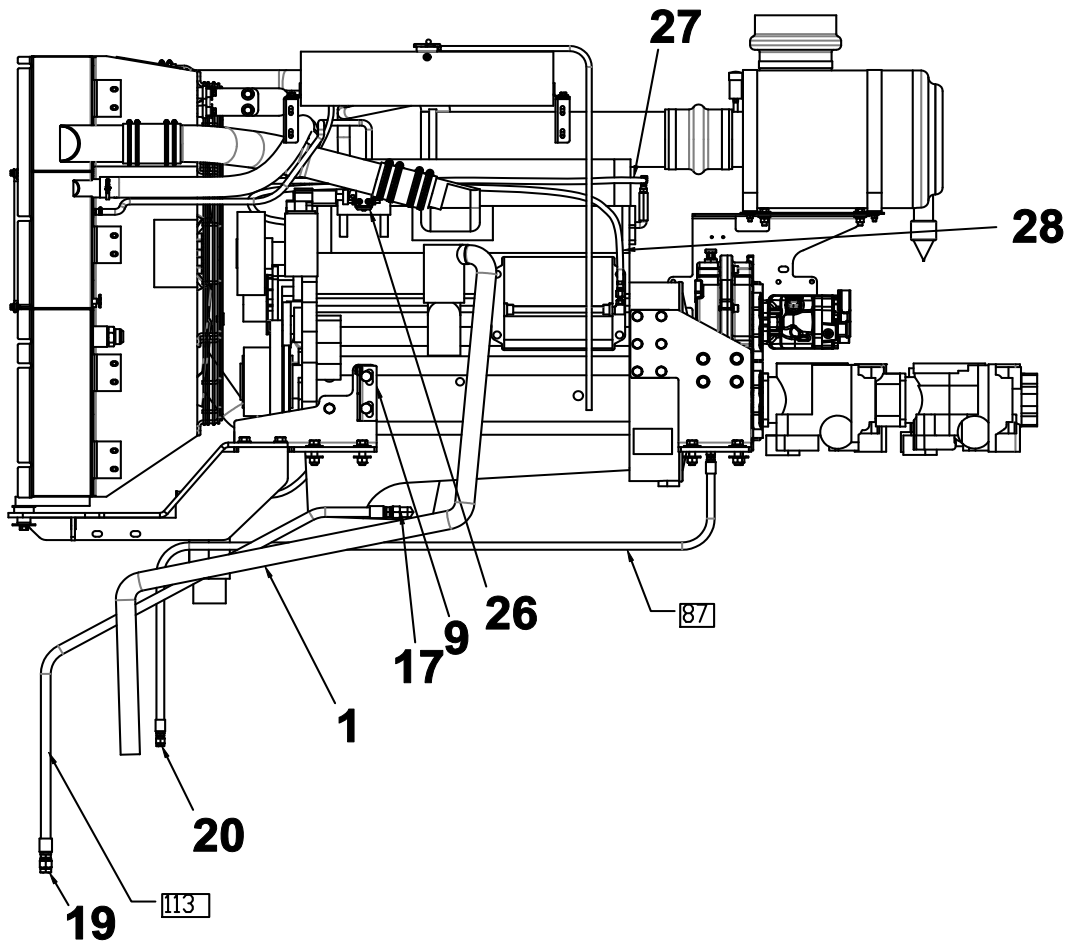
RADIATOR SURGE TANK CONNECTION
ALTERNATOR
REMOVED FOR CLARITY

ROADTEC an Astec Industries Company

SB-2500D ENGINE ASSEMBLY
(231717-01)

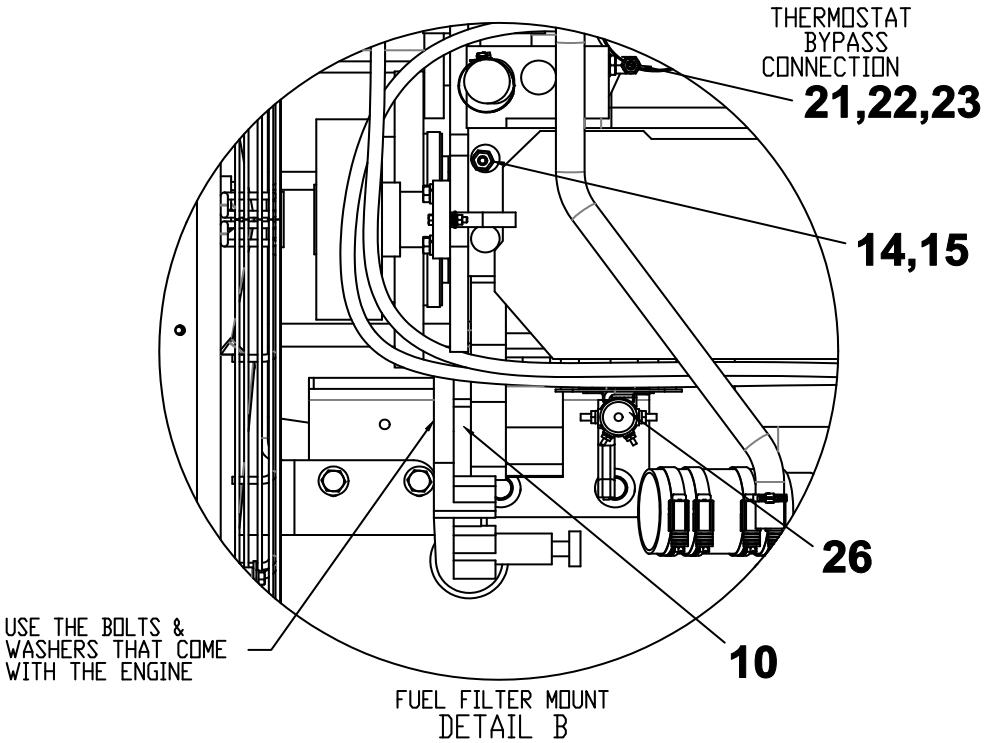
RADIATOR SURGE TANK CONNECTION



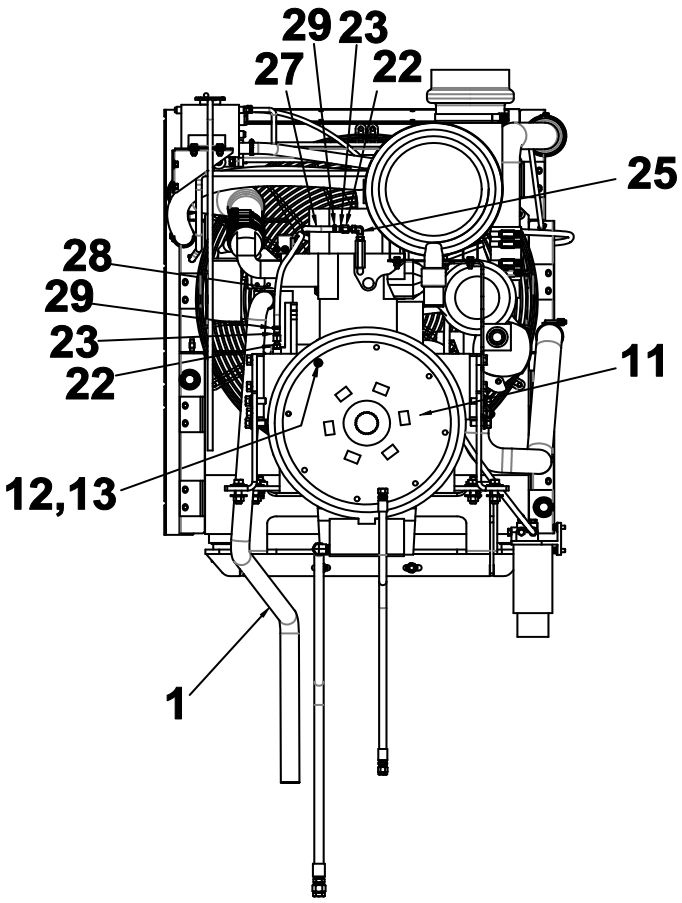


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SB-2500D ENGINE ASSEMBLY
(231717-01)



FUEL FILTER MOUNT
DETAIL B

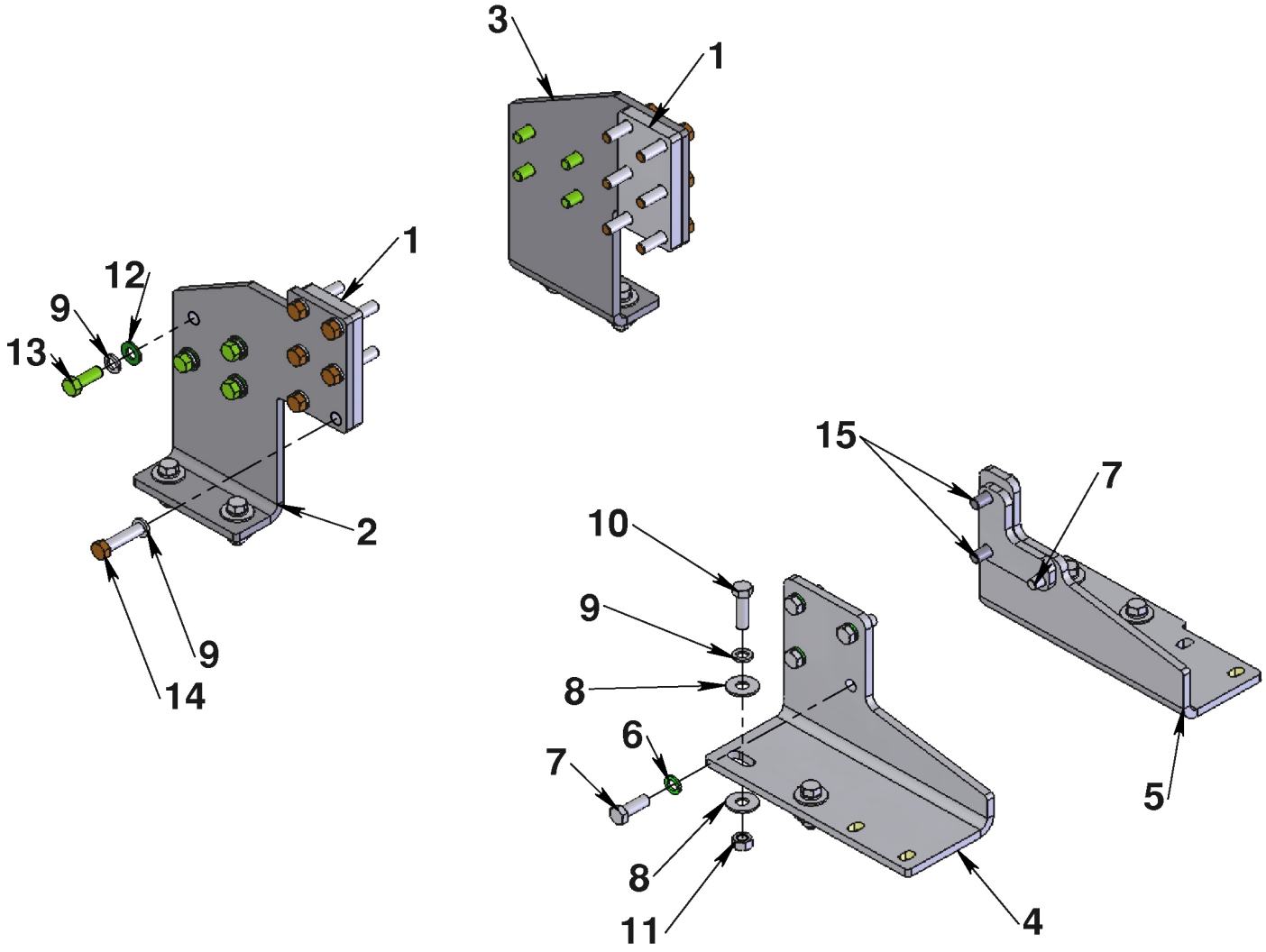


PUMP ASSEMBLY
REMOVED FOR CLARITY

CAT TIER III C9 ENGINE ASSY. (231717-01)

ITEM #	PART NO.	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	231745-01	ASSY - PUMPS TIER III	1
4	216164-01	ASSY - ENGINE MOUNT	1
5	217189-01	ASSY - AIR INTAKE	1
6	89687-04	ALTERNATOR - 12/24 VDC	1
7	227044-01	ASSY - RADIATOR	1
8	221153-01	ASSY - EXHAUST CAT TIER III	1
9	216996-03	ASSY - AUX PUMP SUPPORT	1
10	216881-03	DETAIL - FUEL FILTER SPACER PLATE	1
11	215893-03	COUPLING - SPRING	1
12	83317	LOCK WASHER - 1/2" SPRING STEEL GR8	8
13	84691	SOC. HD. SCREW - 1/2- UNC X 1 1/4"	8
14	86136-04	FIT - ADAPTER 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	85395-04	FIT - PLUG 12 JIC	1
20	85393-04	FIT- PLUG 8 JIC	1
21	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	1
22	132960-04	FIT - CONNECTOR SWIVEL F 6 JIC - 4 NPT	4
23	80349-04	HOSE BARB - 1/4" NPT X 3/8" BARB	4
24	232396-03	ASSY - FUEL / WATER SEPARATOR	1
25	83953-04	FIT - FM SWIVEL ELBOW 6 JIC 90 DG	1
26	222313-04	SOLENOID 12V.-200 AMP	1
27	231717-01-27	HOSE - 3/8" FUEL & WATER 102" LG.	1
28	231717-01-28	HOSE - 3/8" FUEL & WATER 114" LG.	1
29	45228	CLAMP - 3/8" - 1/2 WORM	4
30			
31			
32			
33			

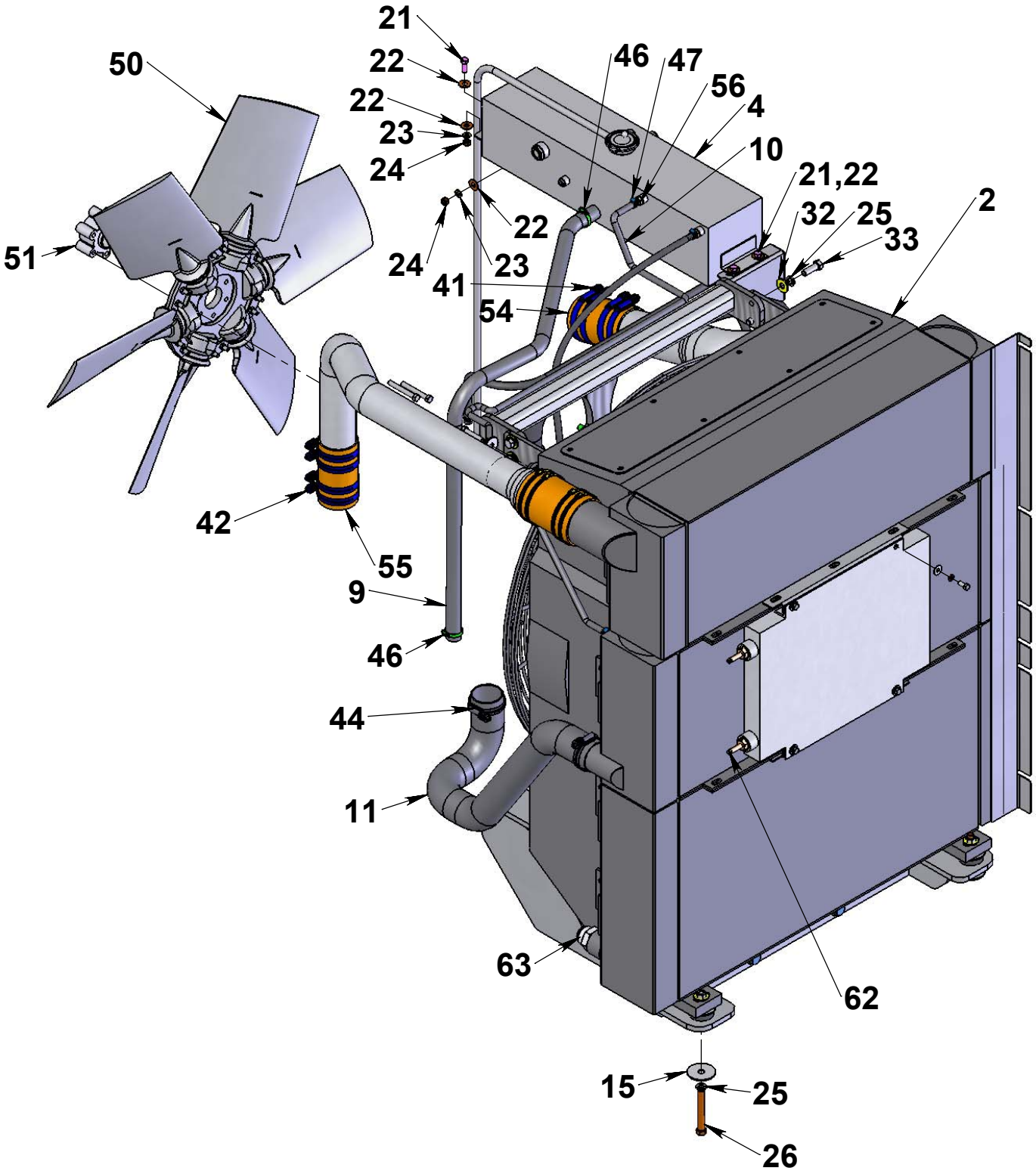
SB-2500D ENGINE MOUNT ASSEMBLY
(216164-01)



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

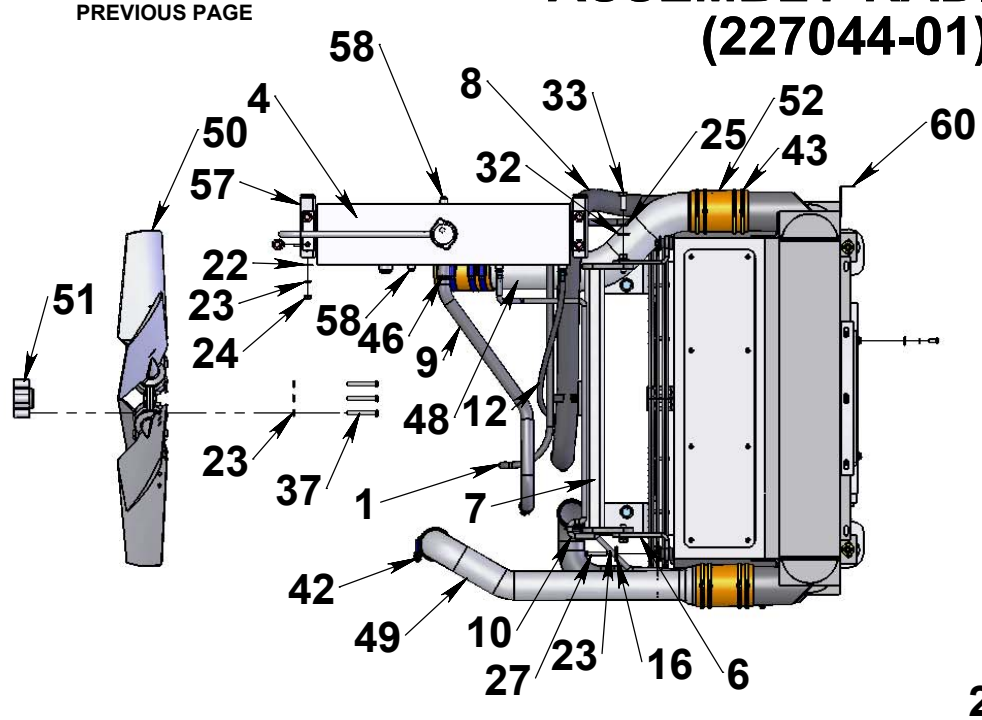
ASSEMBLY-RADIATOR
(227044-01)

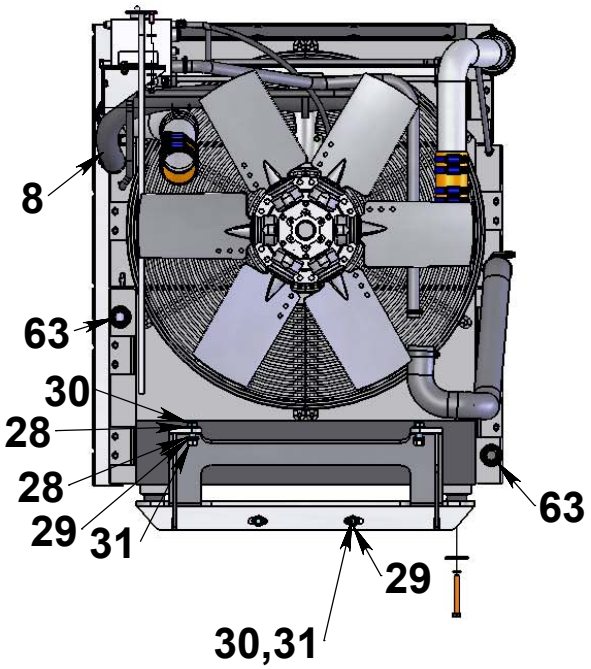
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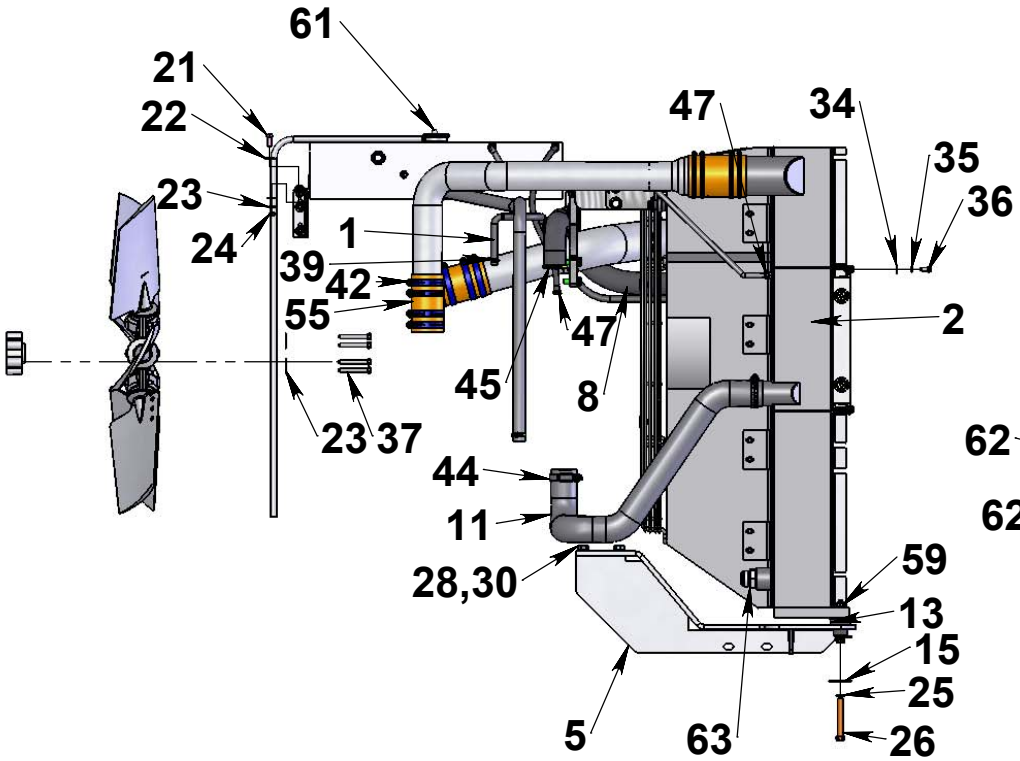


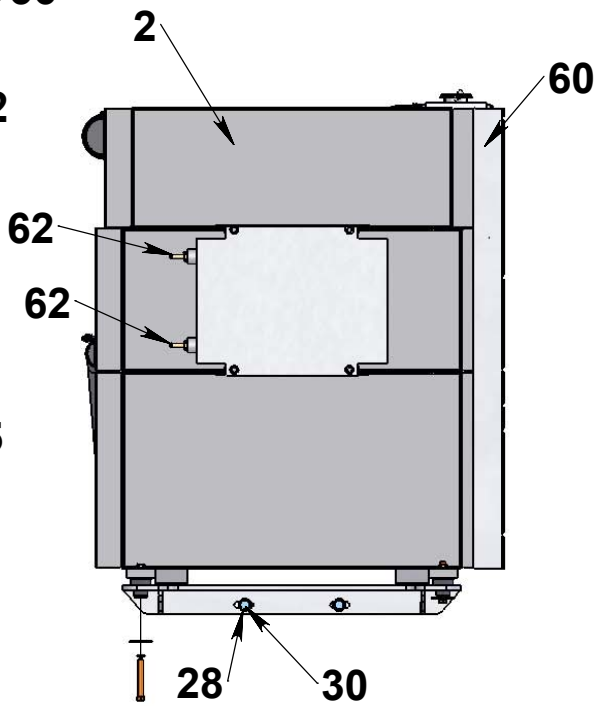
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ASSEMBLY-RADIATOR (227044-01)









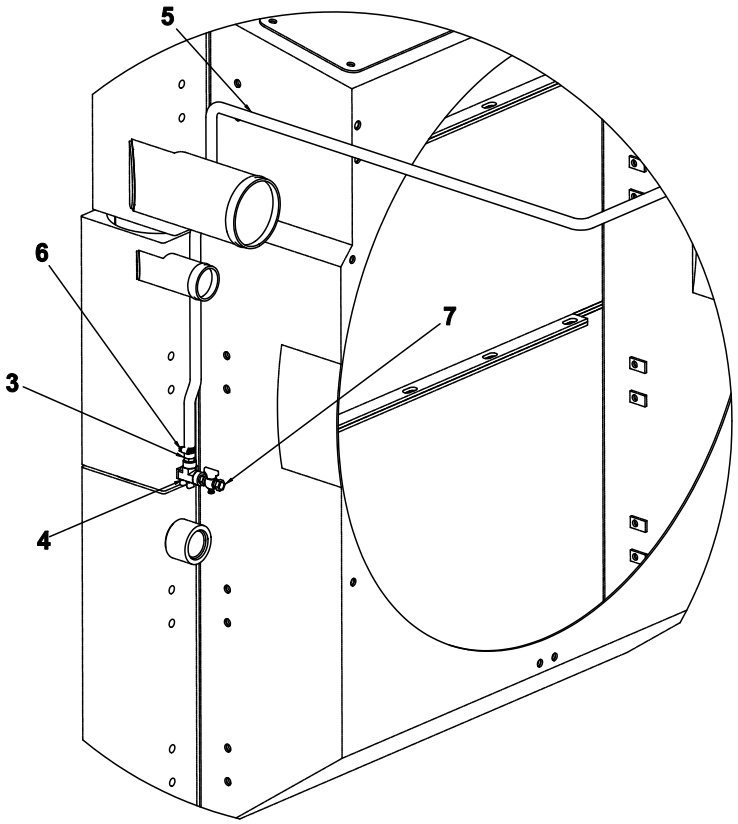
ASSEMBLY-RADIATOR
(227044-01)

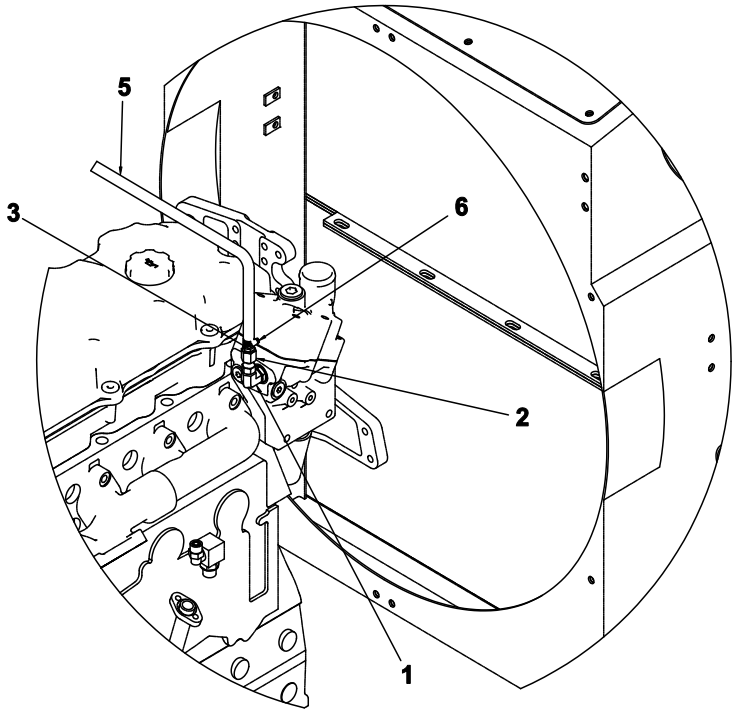
ITEM #	PART #	DESCRIPTION	QTY
1	227044-01-1	3/8" ID FUEL HOSE X 68"	1
2	217192-01	COOLING PACKAGE	1
3	203544-03	ENGINES-COOL * FUEL COOLER	1
4	216349-03	TANK * TOP TANK TIER III	1
5	217195-02	WELDMENT-BOTTOM SUPPORT	1
6	203210-03	DETAIL-TOP SUPPORT EXTENSION	2
7	216260-03	WELDMENT ~ TOP SUPPORT	1
8	217202-01-2	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

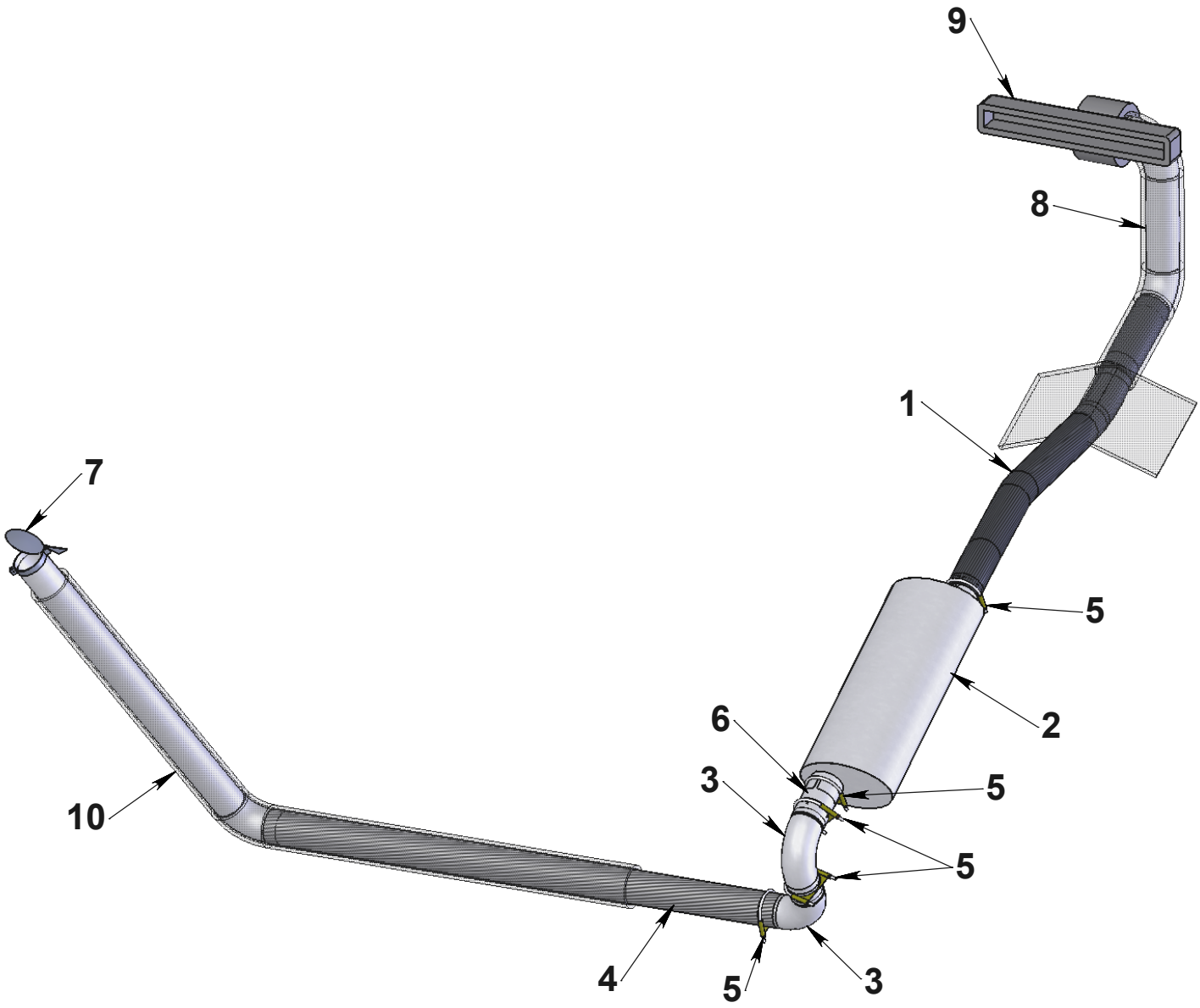
KIT- C-9 THERMOSTAT BY-PASS
(226122-01)





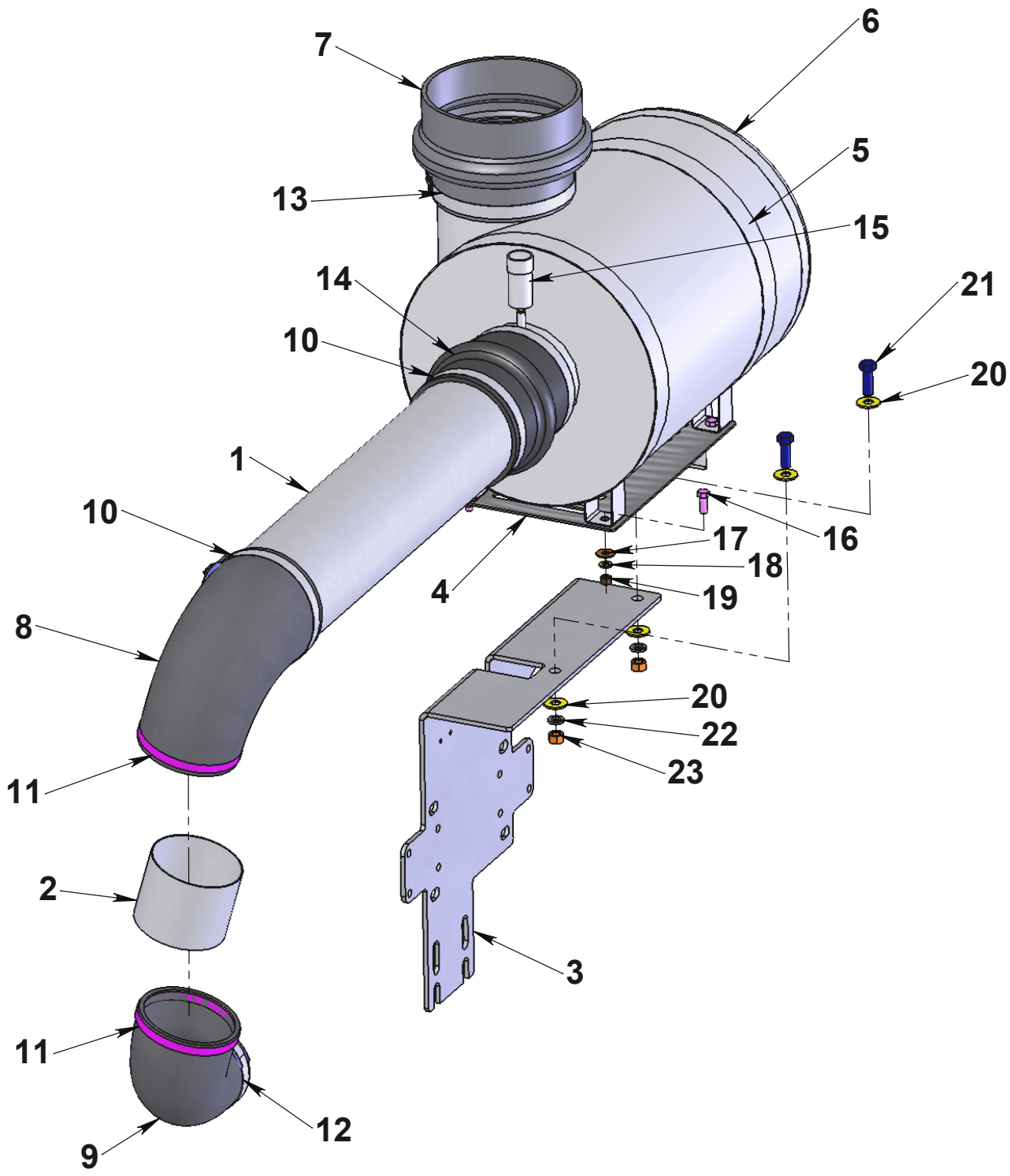
ITEM #	PART NO.	DESCRIPTION	QTY.
1	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	1
2	132960-04	FIT - CONNECTOR SWIVEL F 6 JIC - 4 NPT	1
3	80349-04	HOSE BARB - 1/4" NPT X 3/8" BARB	2
4	120661	FIT - 1/4" NPT MALE RUN TEE	1
5	226122-01-1	3/8" ID FUEL HOSE X 68"	1
6	45228	CLAMP - 3/8"-1/2" WORM	2
7	93247-04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

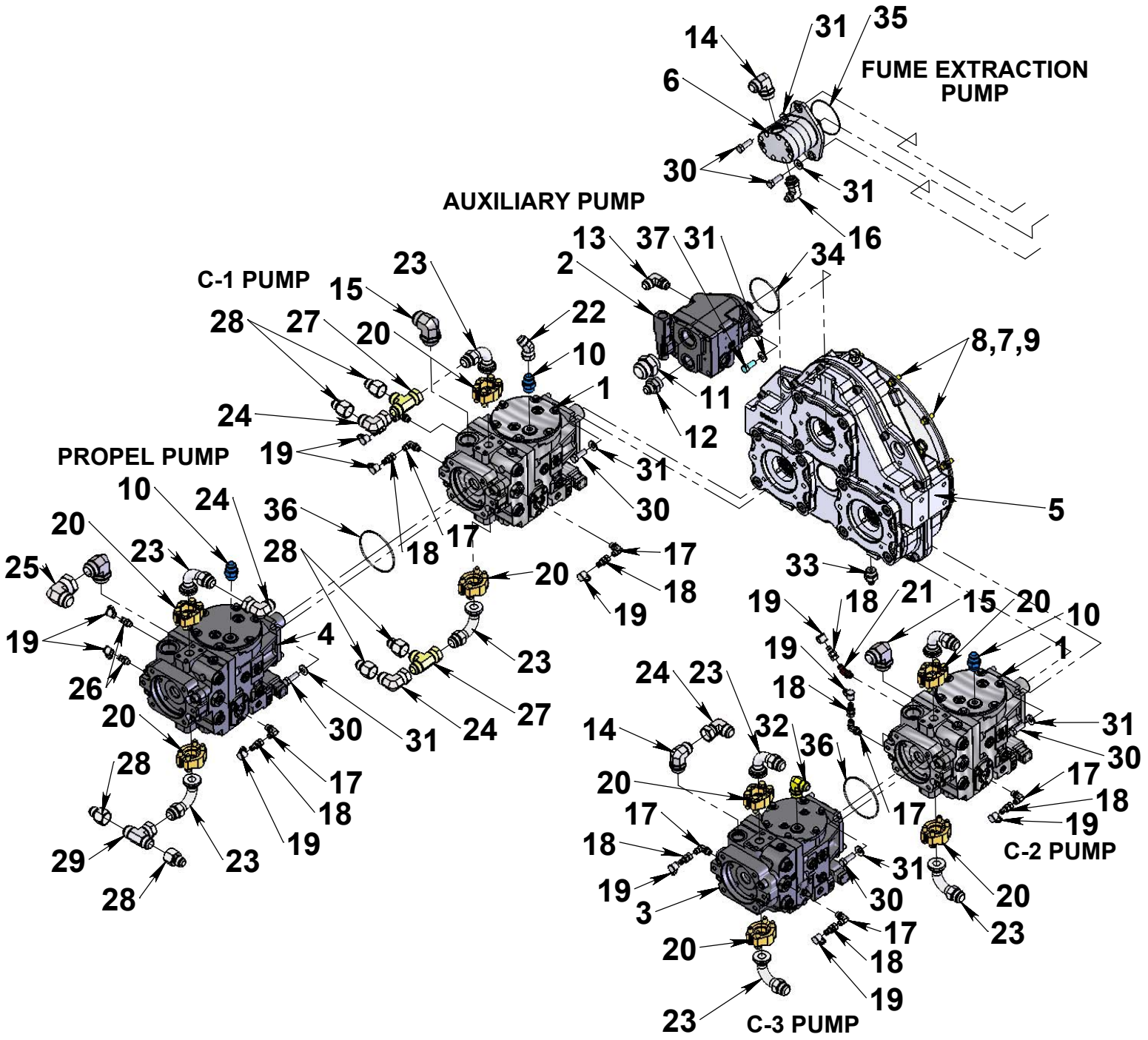
ASSEMBLY, AIR INTAKE
(217189-01)



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

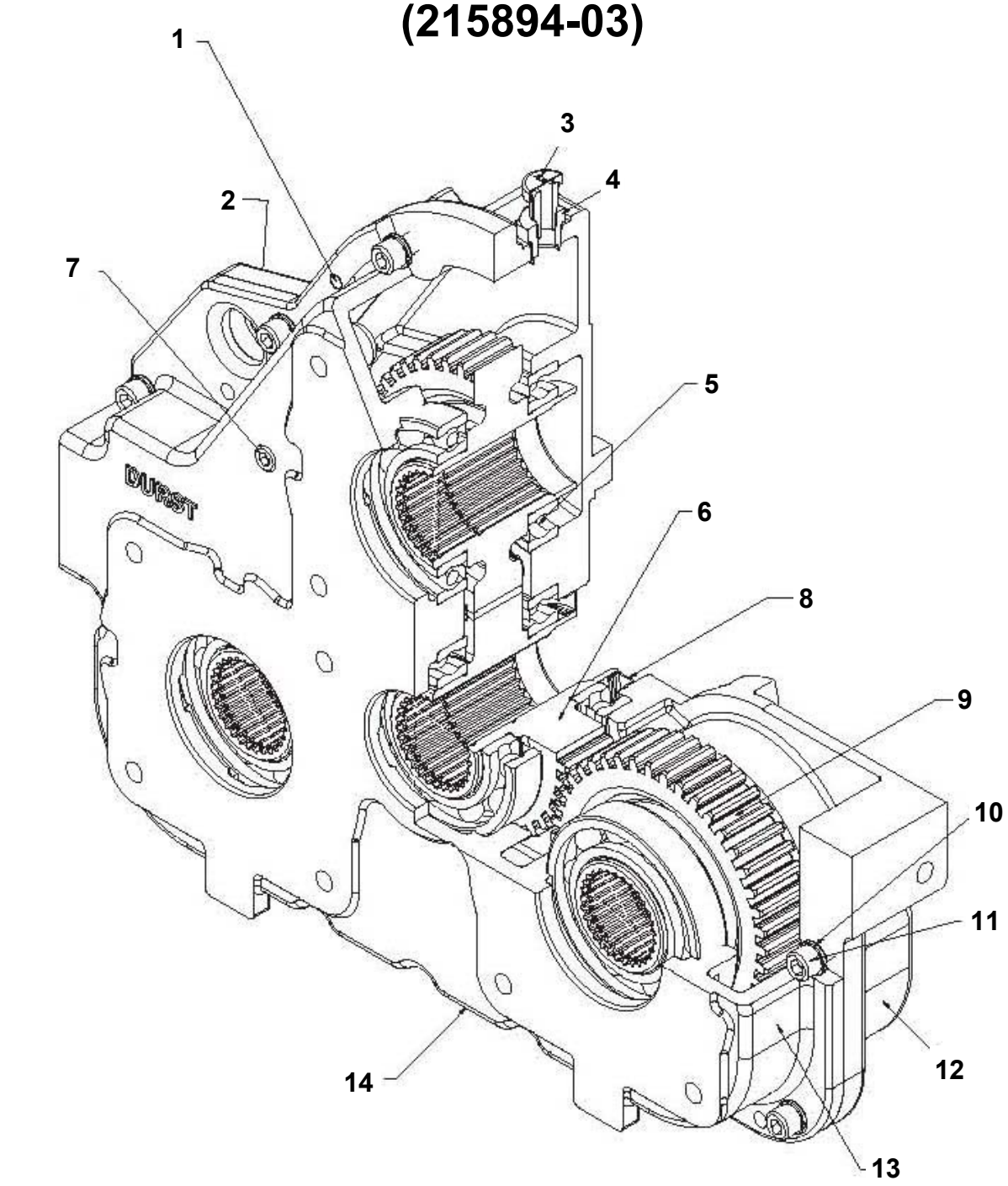
ASSEMBLY, PUMPS, SB-2500D, TIER III (231745-01)

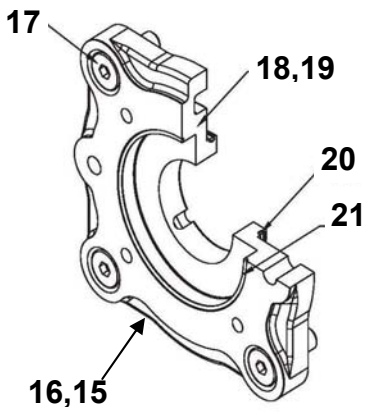


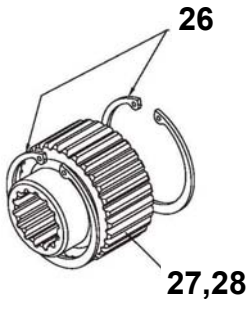
ASSEMBLY, PUMPS, SB-2500D, TIER III (231745-01)

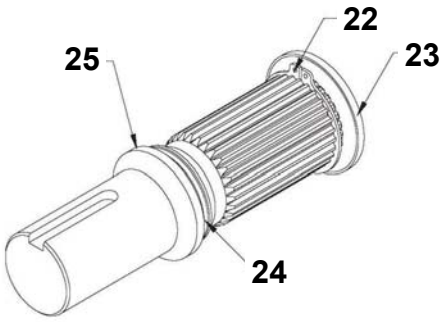
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	99814	PUMP, CLOSED LOOP, SAUER-DANFOSS SERIES 90/100CC, CCW	2
2	211743-04	PUMP *AUX 45CC PRESSURE COMPENSATED	1
3	29J94	PUMP, HYD, STAT. S90 75cc	1
4	219675-04	PUMP * HYD STAT SERIES 90-100CC	1
5	215894-03	PUMP * DRIVE 3 PAD DURST W/1.17:1	1
6	204513-04	PUMP * 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 * 6 JIC - 6 SAE 90 DEG.	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	137703-04	FIT * 6 SAE X 6 JIC 45 ELBOW	1
22	90952-04	FIT * ELBOW 12 JIC 45 DEG. SWIVEL	1
23	92775	FIT*16 JIC-16 FLG 90 DEG.CODE 62 HP	8
24	84654-04	FIT * SWIVEL ELBOW 16 JIC 90 STEEL	4
25	85216-04	FIT * SWIVEL ELBOW 20 JIC 90 DEG	1
26	85948-04	FIT * TEST PORT 6 SAE	2
27	98118	FIT * SWIVEL RUN TEE 16 JIC	2
28	89596-04	FIT * REDUCER 16 JIC F. - 12 JIC M.	6
29	90939-04	FIT * BRANCH TEE 16 JIC SWIVEL	1
30	93144	BOLT * HEX 1/2"-13 X 1 1/2"	18
31	05707	WASHER ~ CONICAL HS12 6796 STEEL	20
32	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
33	89616	FIT * 8 JIC X 12 SAE ST. MALE	1
34	211562-04	KIT * ORING - 2-155	1
35	123041-04-C2	KIT * O-RING-.064 DIA. NOT SHOWN	1
36	223350-04	ORING - SD SAE C FLANGE	2
37	86164	BOLT * HEX 1/2"-13 X 1 1/4"	2

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





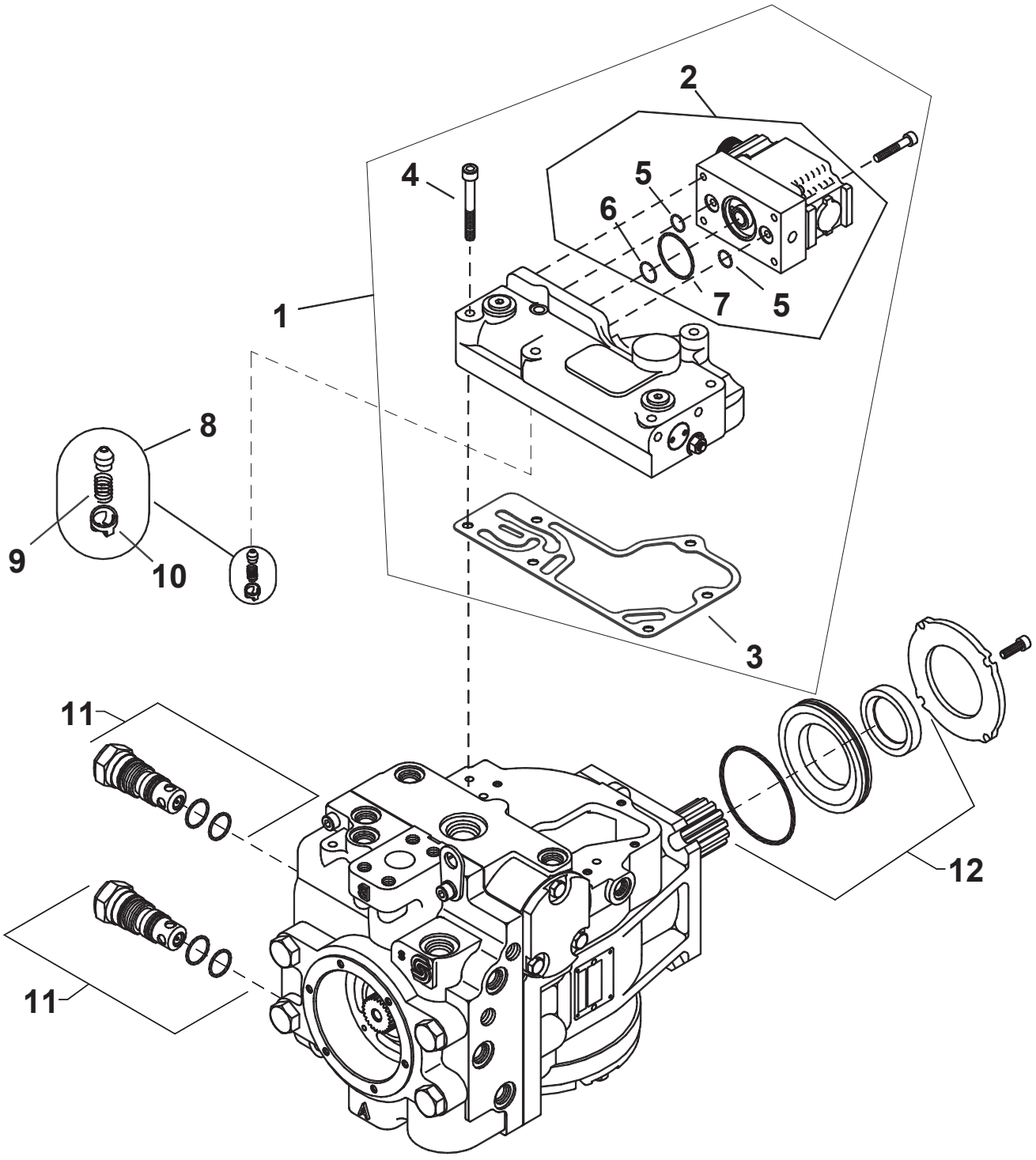




DURST PUMP DRIVE - SB-2500D
(215894-03)

ITEM #	PART NO.	DESCRIPTION	QTY.
		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)

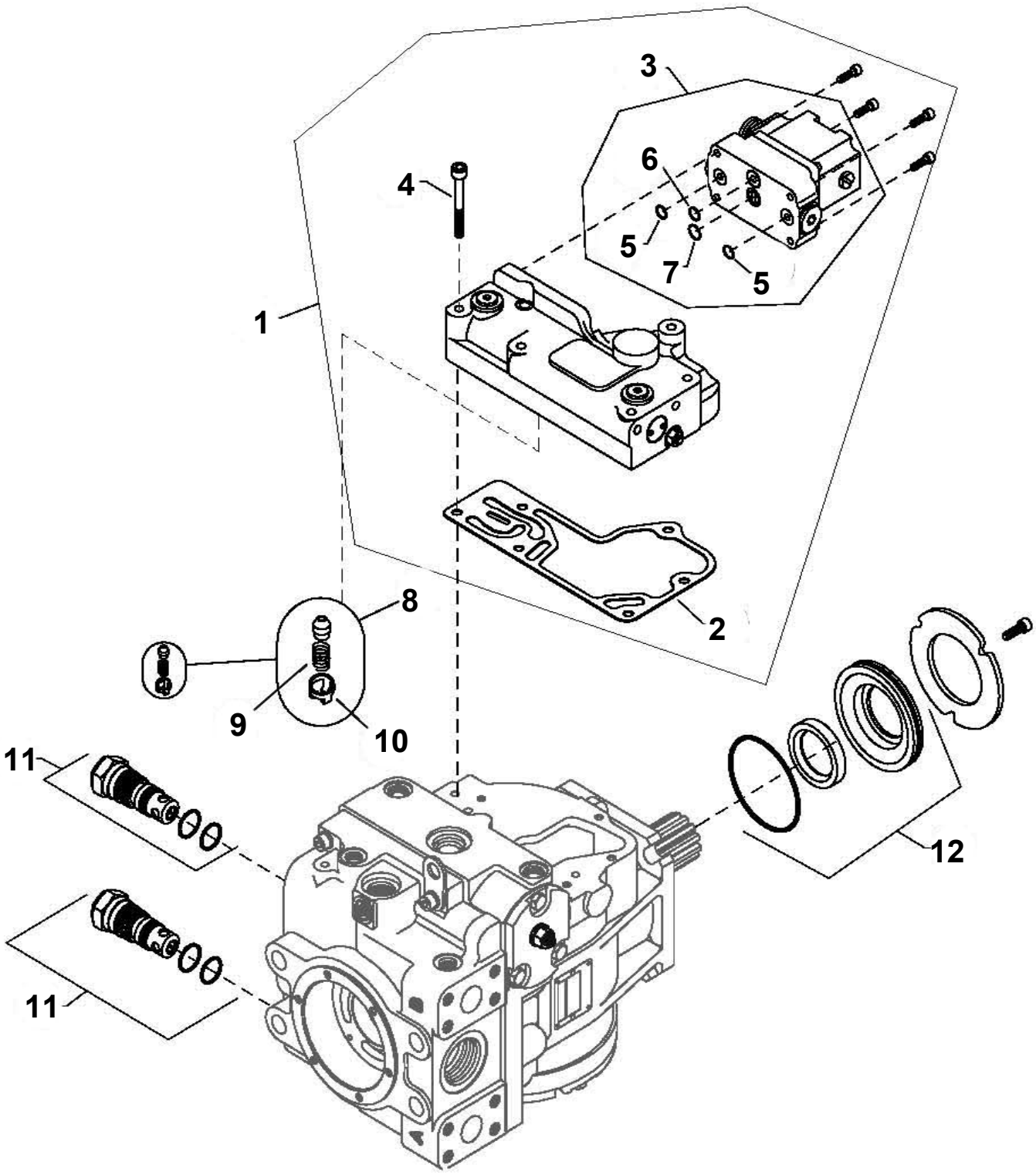


C-1 & C-2 PUMP
(99814)

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)

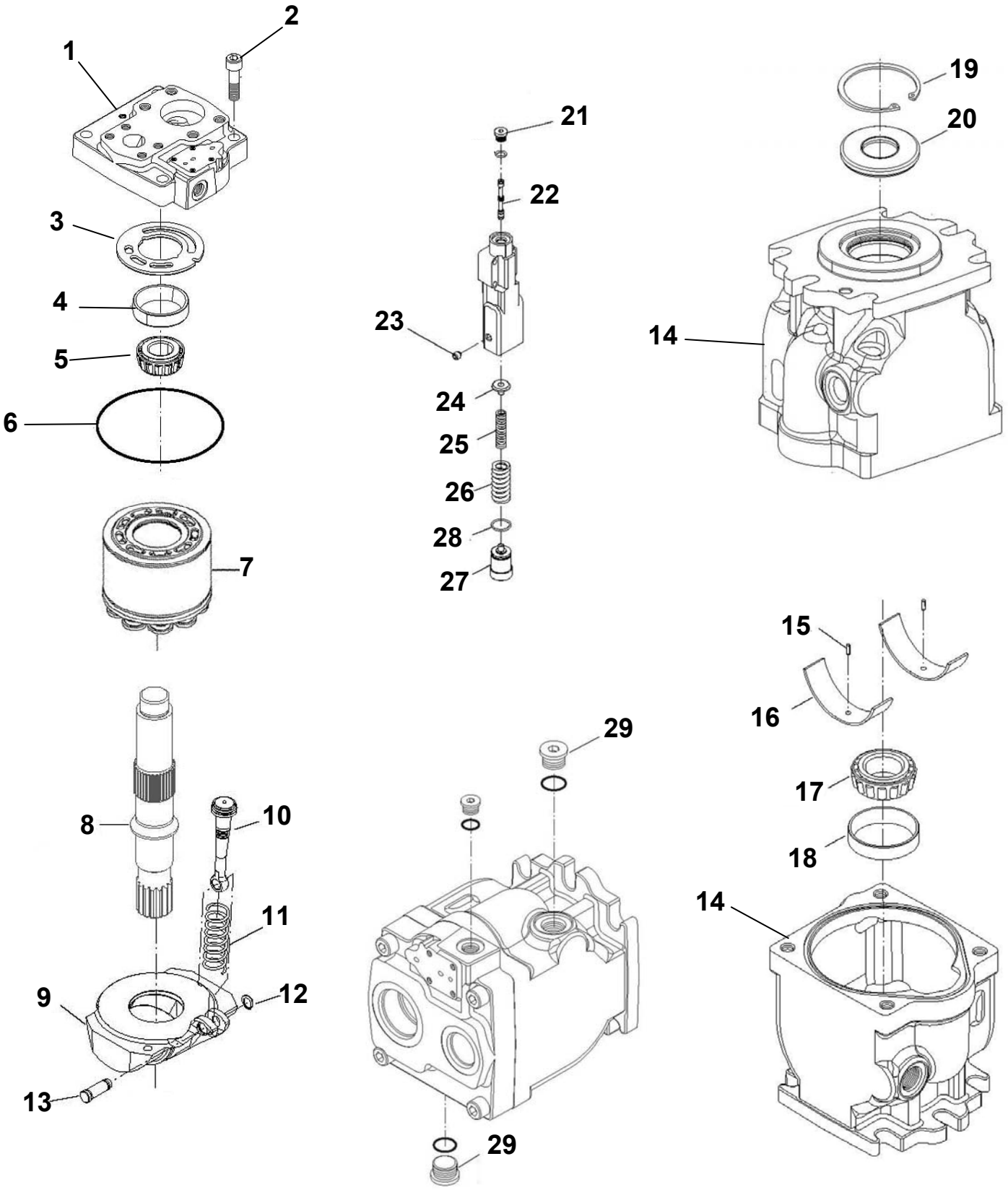


C-3 PUMP
(29J94)

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			

CODE: 90-L-075-KA-1-C-6-5-4-SI-R-03-GBA-42-42-24

AUXILIARY PUMP
(211743-04)

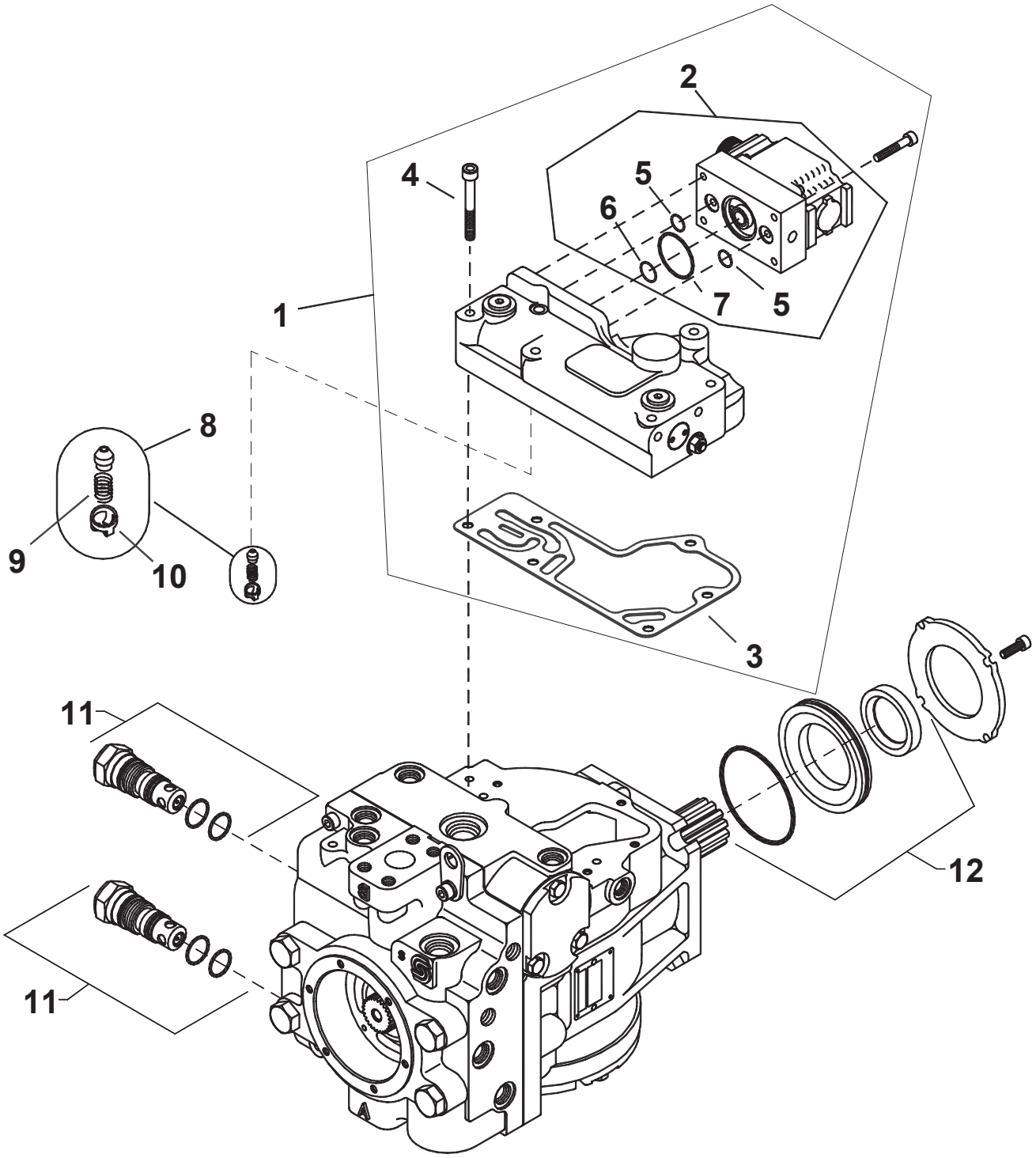


AUXILIARY PUMP
(211743-04)

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)



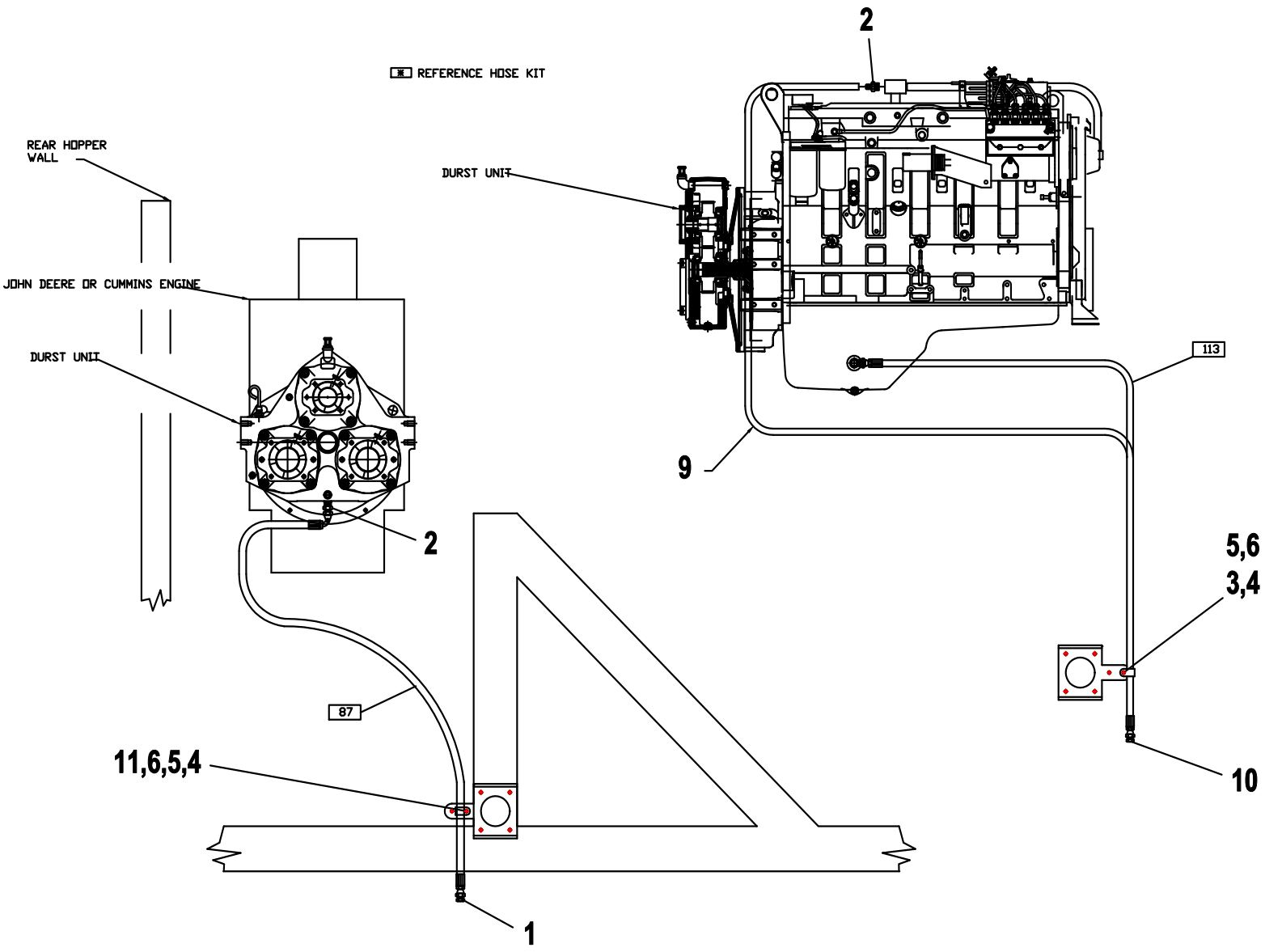
PROPEL PUMP
(219675-04)

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

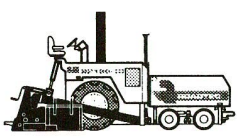
1) TO INSTALL DRAIN HOSE, REMOVE SQUARE PLUG FROM THE BOTTOM OF THE DURST UNIT. (A 6 QT. CONTAINER NEEDS TO BE PROVIDED TO CATCH THE OIL HELD IN THE DURST UNIT).
2) AFTER THE CASING IS DRAINED CLEAN THE ORIFICE OF ANY DEBRIS. INSTALL ITEM 2 IN THE THREADED OUTLET. (OPT. YOU MAY APPLY SOME FORM OF APPROVED 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

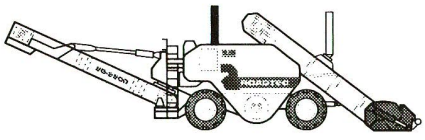
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	85393-04	8 JIC PLUG	1
2	83468-04	CONNECTOR - 8 JIC - 1/2" NPT MALE	2
3	83924	HEX BOLT - 3/8-16 X 1 1/2"	1
4	83056	LOCK WASHER - 3/8" SPRING STEEL	2
5	83055	HEX NUT - 3/8-16 GR8	2
6	20K38	CLAMP - 1 1/4" DIA. X 9/16" WTH.	2
7	83905-04	WIRE TIE - 1/4" X 14" NYLON	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

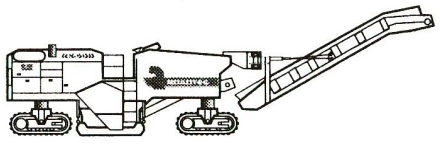
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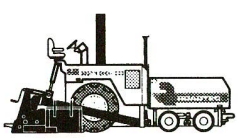
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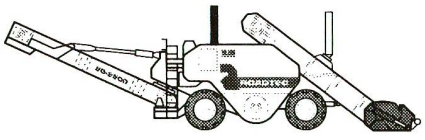
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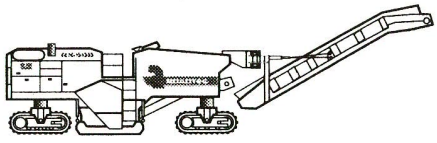
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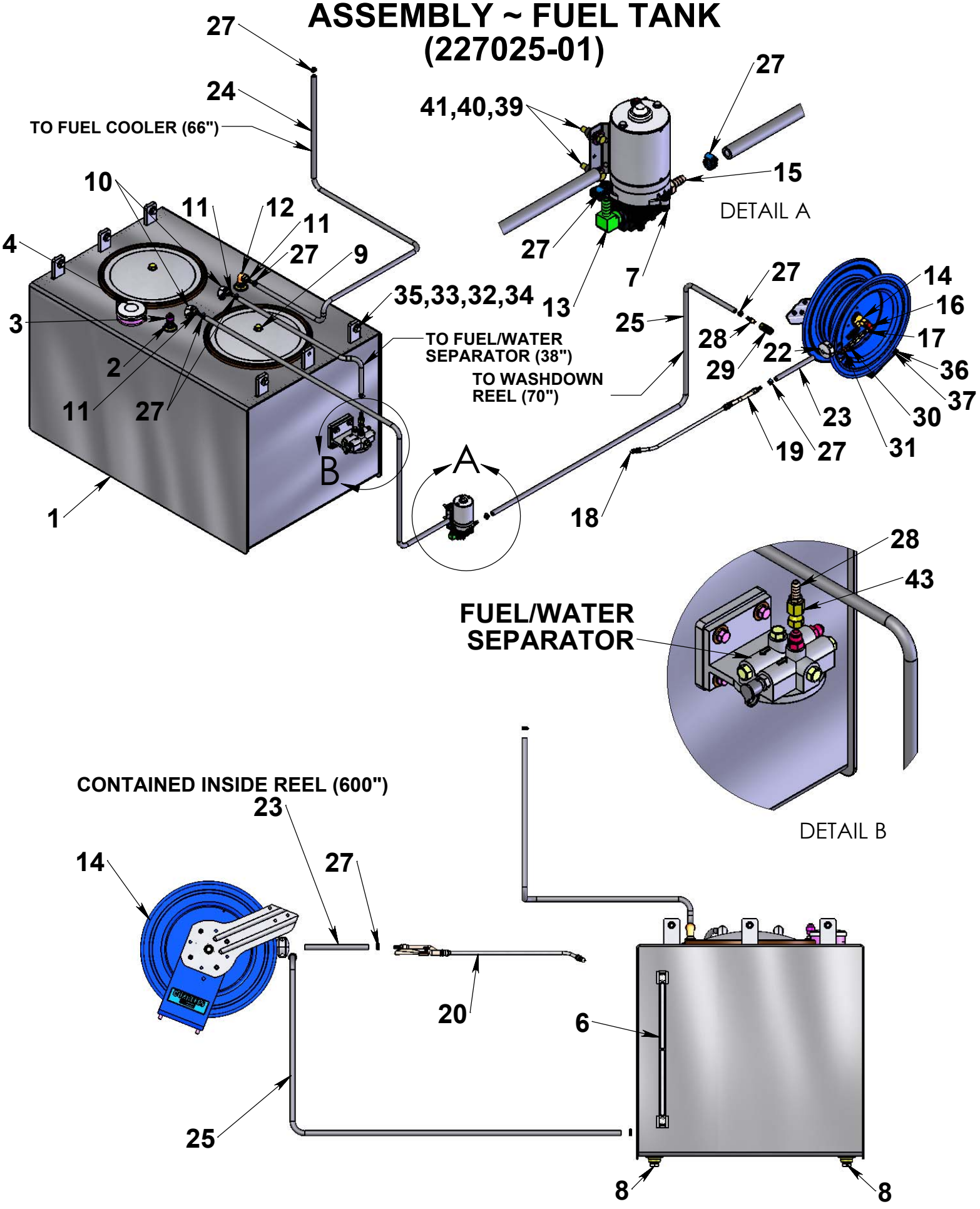
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SECTION 2 : FRAME ASSEMBLIES

ASSEMBLY	PART NO.	S/N	PAGE NO.
FUEL TANK & WASHDOWN	227025-01	1038,1044 & UP	2.1
MAINFRAME	233561-01	1148 & UP	2.3
FXS UNIT	224606-01		2.6
DECAL KIT	230722-01	1091 & UP	2.7
PLATFORM & HOOD	227348-01	1048 & UP	2.19
FOLDING HOOD RAILS	224025-01		2.23
OPERATORS STATION	227349-01	1048 & UP	2.25
HOOD INSULATION	224744-01	993 & UP	2.28
STROBE LIGHT	214370-01		2.29
MIRROR	202080-01	640 & UP	2.32

ASSEMBLY ~ FUEL TANK (227025-01)



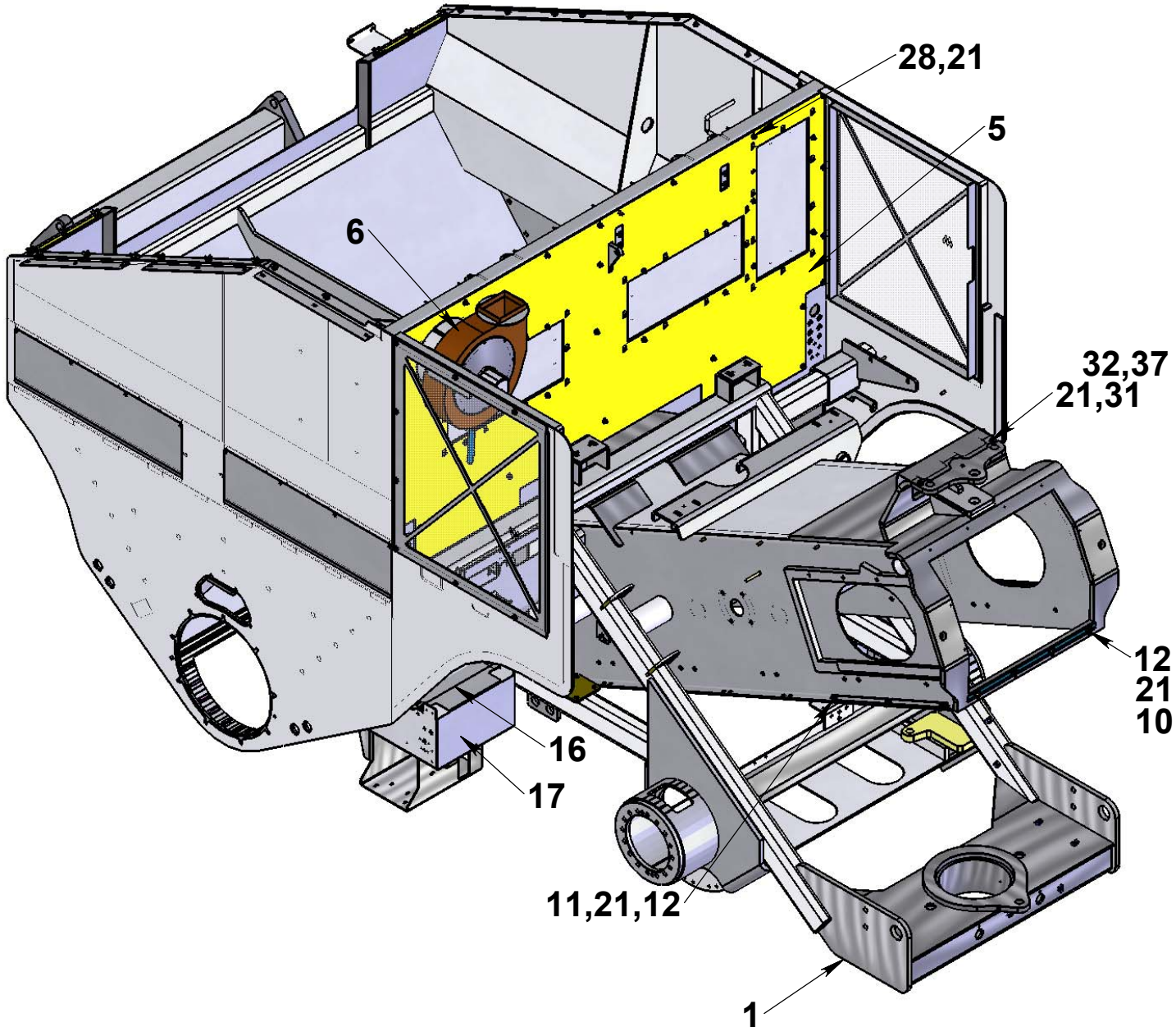
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ASSEMBLY ~ FUEL TANK
(227025-01)

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	128843	SPRAY NOZZLE 289-4590	1
19	128842	HAND SHUT OFF	1
20	128844	WAND-EXT 18" 318-5238	1
21	80553-04	HOSE BARB * BARBED 1/8" X 3/8"	1
22	145619-04	RUBBER * RUBBER STOP	1
23	227025-01-31	HOSE, 3/8 FUEL & WATER X 600" LG.	1
24	227025-01-32	HOSE, 3/8 FUEL & WATER X 66" LG.	1
25	227025-01-33	HOSE, 3/8 FUEL & WATER X 70"	1
26	227025-01-34	HOSE, 3/8 FUEL & WATER X 100"	1
27	45228	CLAMP * 3/8"- 1/2 WORM	9
28	80349-04	HOSE BARB * 1/4"NPT X 3/8" BARB	2
29	85947-04-C3	KIT * FEMALE TESTPORT DISCONNECT	1
30	86170-04	FIT * ADAPTER 6 JIC -1/4 NPT M.	1
31	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
32	83288	NUT * 1/2"-13 HEX GRADE 8	5
33	83781-04	WASHER * FLAT 1/2" STEEL	5
34	83317	WASHER * LOCK 1/2" SPRING STEEL	5
35	93144	BOLT * HEX 1/2"-13 X 1 1/2"	5
36	83757	WASHER ~ FLAT 3/8 STEEL	4
37	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
38	84332	BOLT * HEX 3/8"-16 X 1"	4
39	84444	WASHER * FLAT 1/4" STEEL	4
40	83065	WASHER ~ LOCK 1/4" SPRING STEEL	4
41	90763	BOLT * HEX 1/4"-20 X 1 1/4"	4
42	227025-01-35	HOSE, 3/8 FUEL & WATER X 38" LG.	1
43	132960-04	FIT-CONNECTOR SWIVEL F 6 JIC - 4 NPT	1

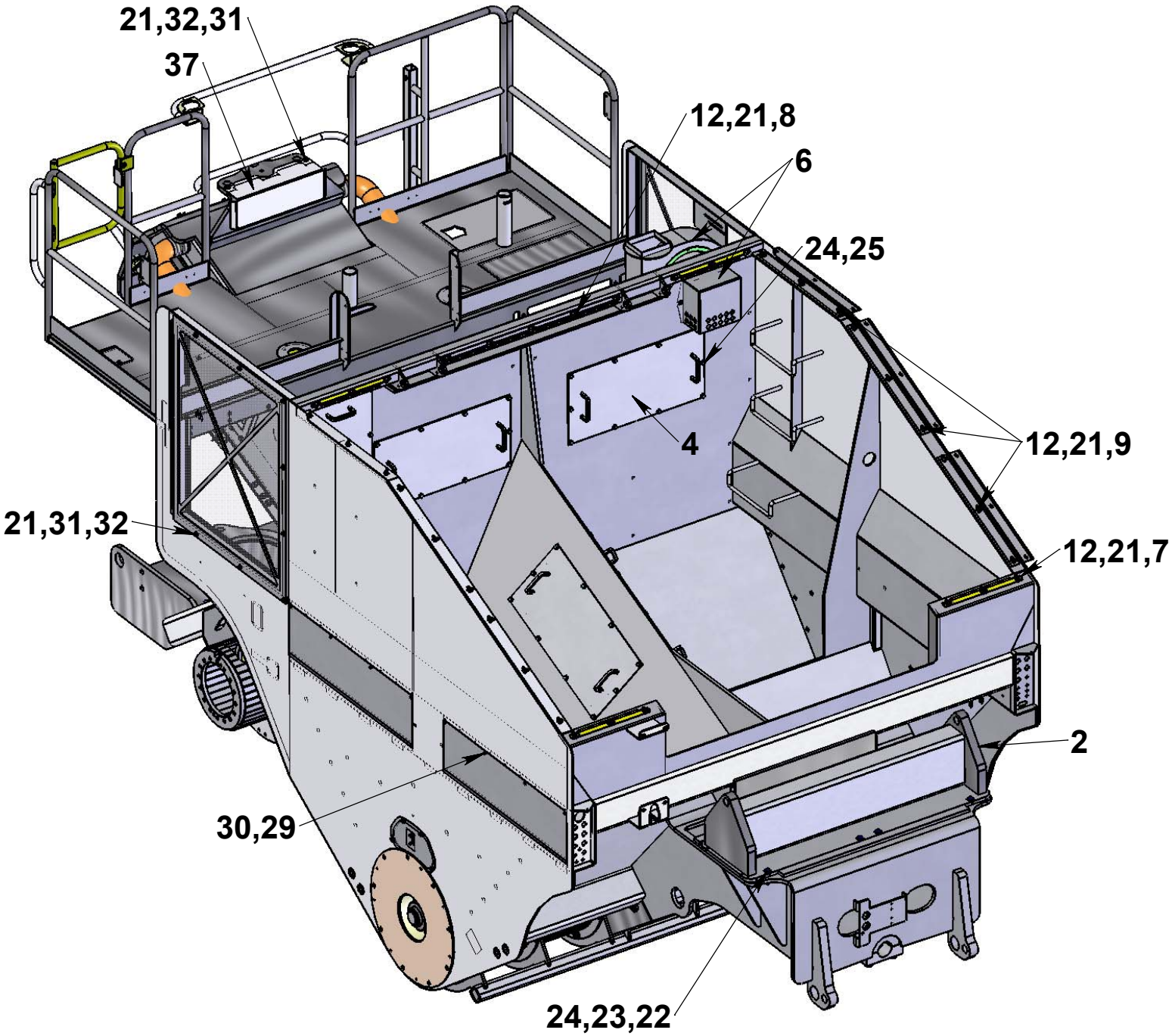
ASSEMBLY - MAINFRAME SB-2500D (233561-01)

NEXT PAGE



PREVIOUS PAGE

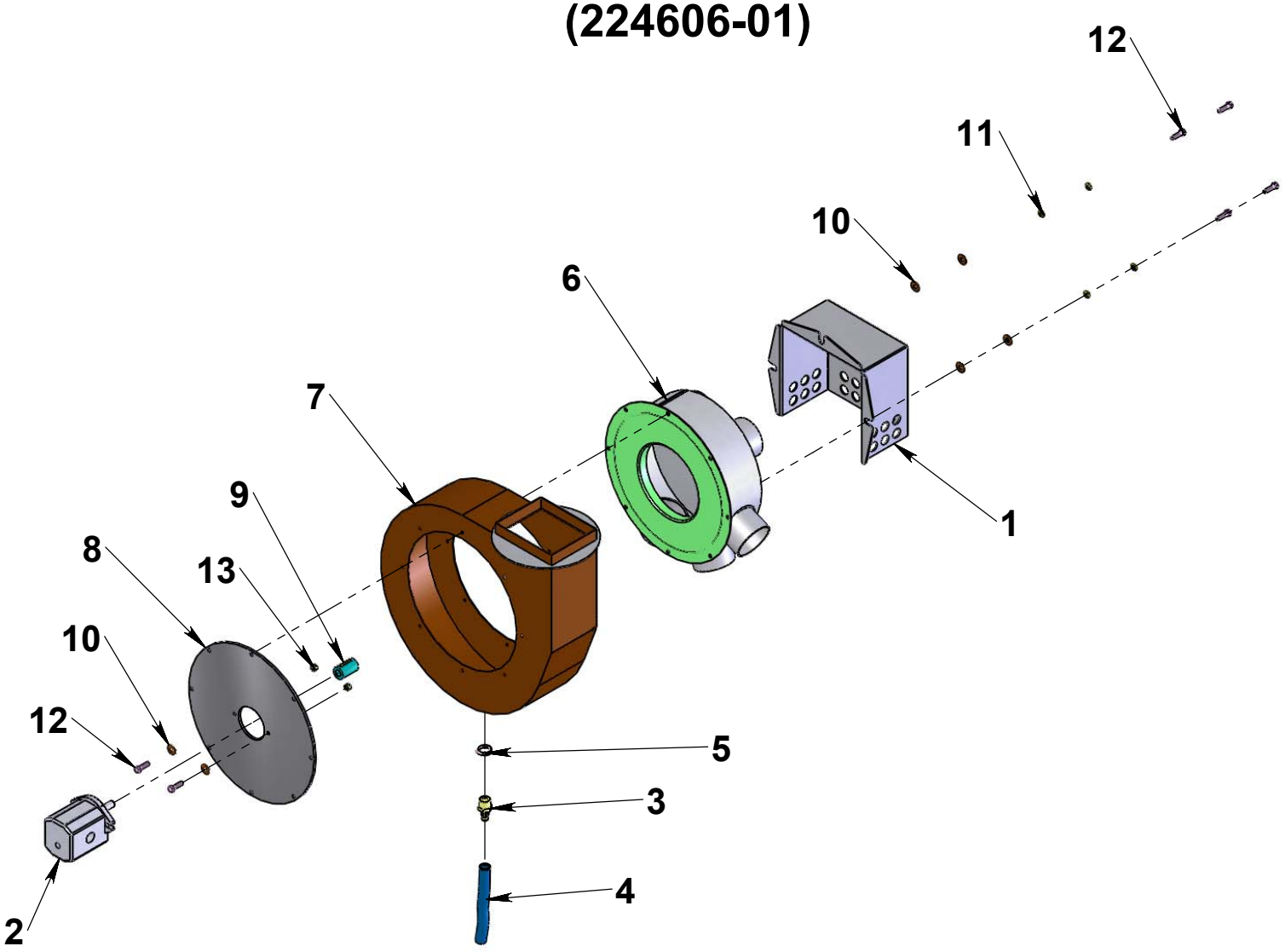
ASSEMBLY - MAINFRAME SB-2500D (233561-01)



ASSEMBLY - MAINFRAME SB-2500D (233561-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	233560-01	WELDMENT-MAINFRAME SB-2500D	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	224606-01	ASSEMBLY - FXS	1
7	224214-03	DETAIL-CANVAS CLAMP BAR 19 1/2"	4
8	200146-03	DETAIL-CANVAS CLAMP BAR 44 1/4"	1
9	204707-03	DETAIL-CANVAS CLAMP BAR 30"	6
10	223756-03	DETAIL-CANVAS CLAMP BAR, 34 1/2"	1
11	147387-03	DETAIL-CANVAS CLAMP BAR 34"	2
12	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	45
13	226216-01-17	INSULATION * 1" ID HOSE SLEVE (NOT SHOWN) 210"	1
14	226216-01-18	INSULATION * 1 1/2" ID HOSE SLEVE (NOT SHOWN) 450"	1
15	226216-01-19	INSULATION * 2 1/2" ID HOSE SLEEVE (NOT SHOWN) 420"	1
16	223825-03	DETAIL-VALVE COVER	1
17	200626-03	DETAIL-BATTERY BOX LID-SB-2500C	1
18	128390	GREASE NIPPLE COVER (RED OR BLACK) (NOT SHOWN)	65
19	83657-04	WIRE TIE * 1/8" X 7" NYLON (NOT SHOWN)	150
20	83905-04	WIRE TIE * 1/4" X 14" NYLON (NOT SHOWN)	150
21	95930	BOLT * HEX 3/4"-10 X 2 3/4"	8
22	95937	WASHER * FLAT 3/4" HARD	8
23	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	8
24	86164	BOLT * HEX 1/2"-13 X 1 1/4"	50
25	83317	WASHER * LOCK 1/2" SPRING STEEL	50
26	223721-01	COVER*C2 DISCHARGE (NOT SHOWN)	1
27	83757	WASHER ~ FLAT 3/8 STEEL	104
28	83055	NUT * 3/8-16 HEX GRADE 8	41
29	89988-04	BOLT * HEX 1/4"-20 X 3/4"	16
30	83065	WASHER ~ LOCK 1/4" SPRING STEEL	16
31	84332	BOLT * HEX 3/8"-16 X 1"	18
32	83056	WASHER ~ LOCK 3/8 SPRING STEEL	18
33	97316	BOLT * HEX 1"-8 X 3"	4
34	83427	WASHER ~ LOCK 1" SPRING STEEL	4
35	10S89	WASHER ~ FLAT 1" A325	4
36	144258-01R	COVER * RH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
37	201251-03	DETAIL-C-3 PIVOT GUARD-SB-2500C	1
38	205446-01	COVER * OPERATORS ACCESS CANVAS (NOT SHOWN)	1
39	144258-01L	COVER * LH SIDE HOPPER CANVAS-2500B (NOT SHOWN)	1
40	233561-01-40	TRIM * 5/8"" BULB X 1/8" EDGE TOP MOUNT X 132"	1

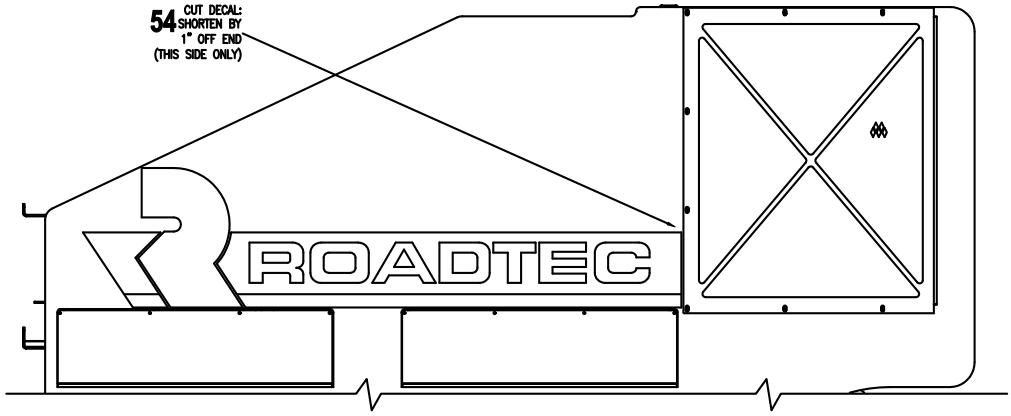
ASSEMBLY - FXS
(224606-01)



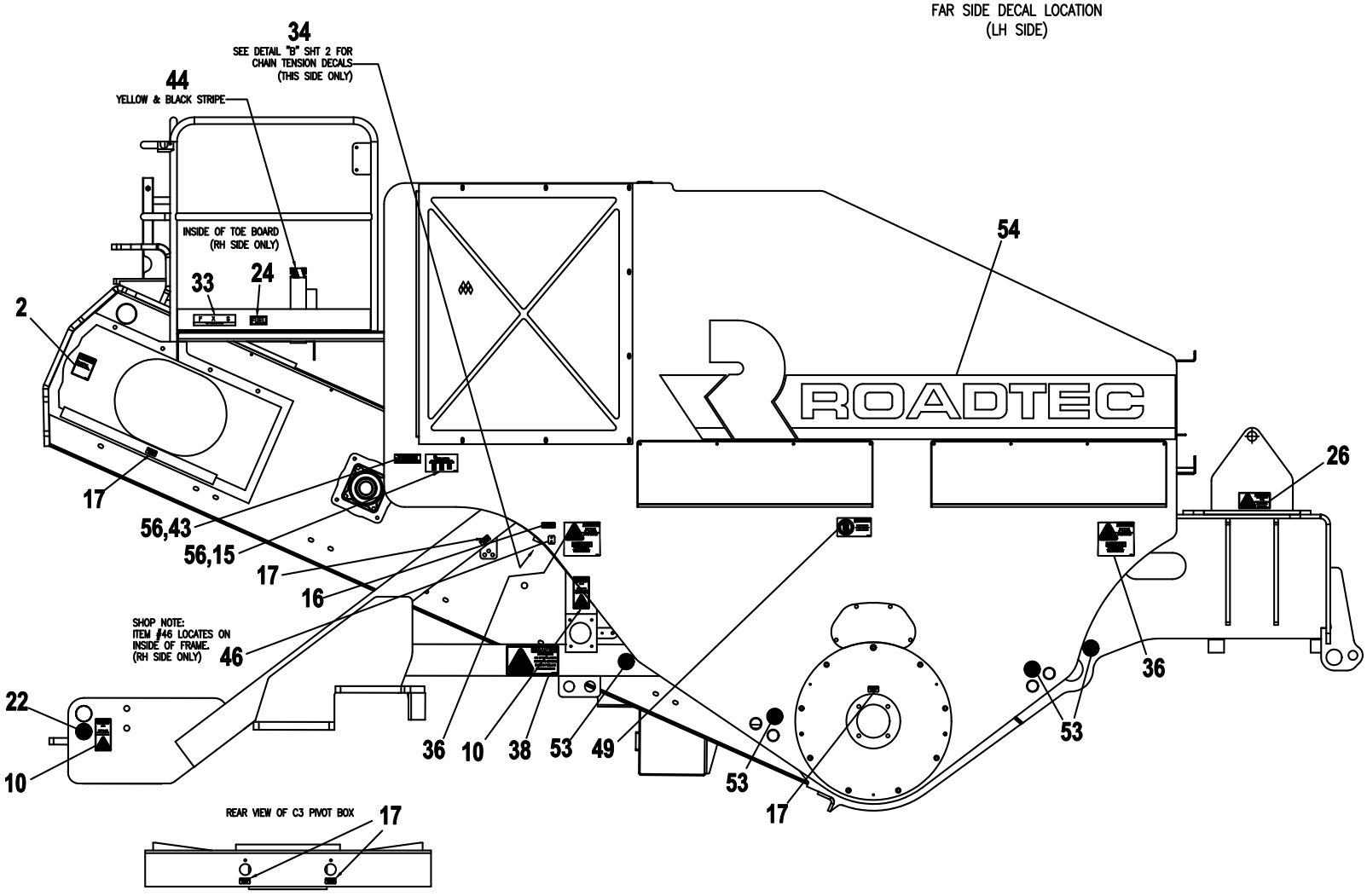
ITEM #	PART #	DESCRIPTION	QTY
1	146685-02	WELDMENT-C2 SUCTION COVER-1500B	1
2	134229-04	MOTOR * HYDRAULIC 1.03 CID (SUNDST)	1
3	136925	BARB * 3/4 NPT X 3/4 HOSE	1
4	222724-01-46	HOSE * 3/4" WATER (BLACK) (NOT TO SCALE) 96"	1
5	80105	CLAMP * 3/4" HOSE	1
6	224567-01	WELDMENT-BLOWER SHROUD-1500/2500	1
7	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

SB-2500D DECAL KIT
(230722-01)

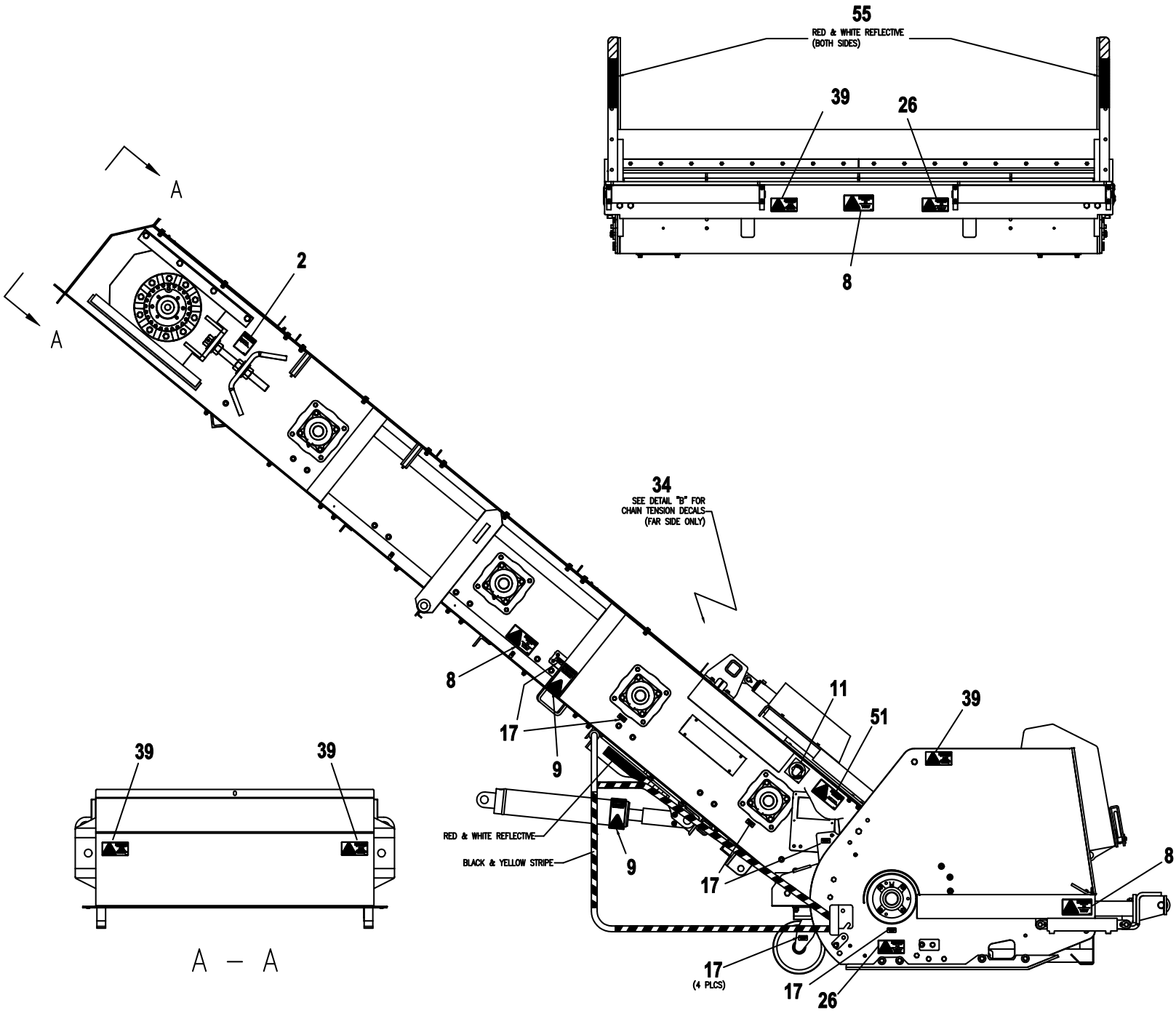
NEXT PAGE



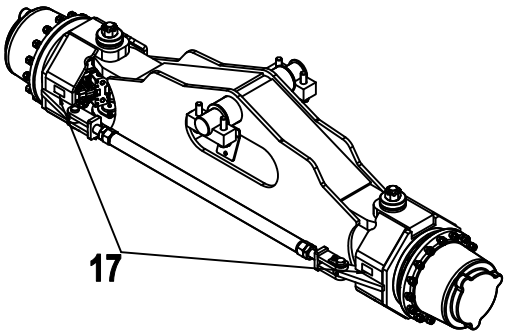
FAR SIDE DECAL LOCATION
(LH SIDE)



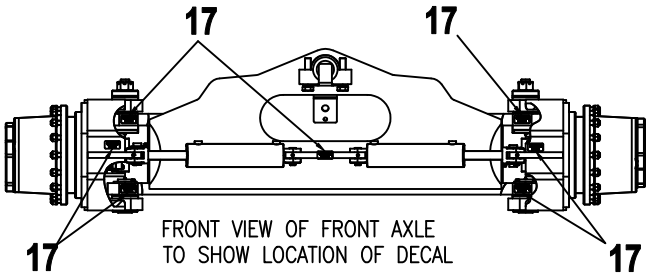
SB-2500D DECAL KIT
(230722-01)



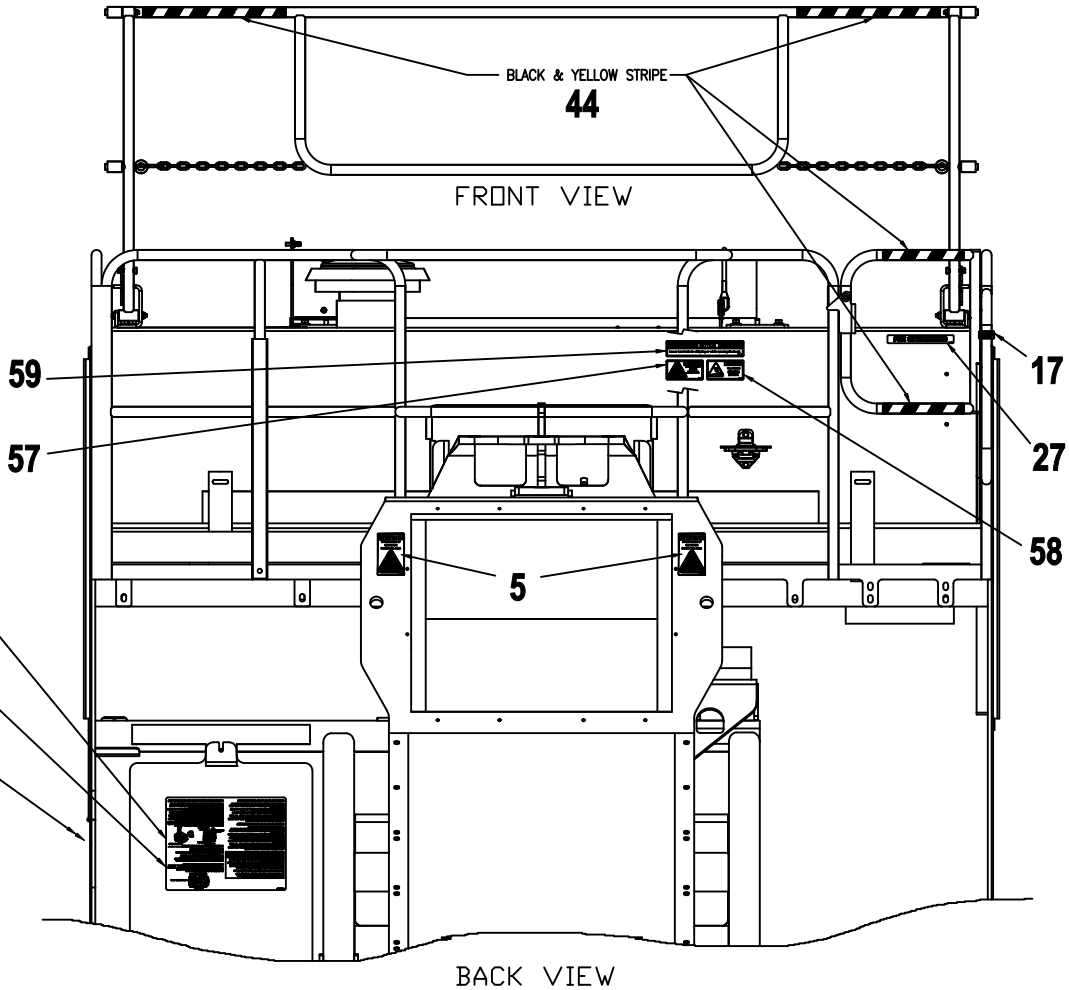
SB-2500D DECAL KIT
(230722-01)



ISO VIEW BACK OF FRONT AXLE



FRONT VIEW OF FRONT AXLE
TO SHOW LOCATION OF DECAL



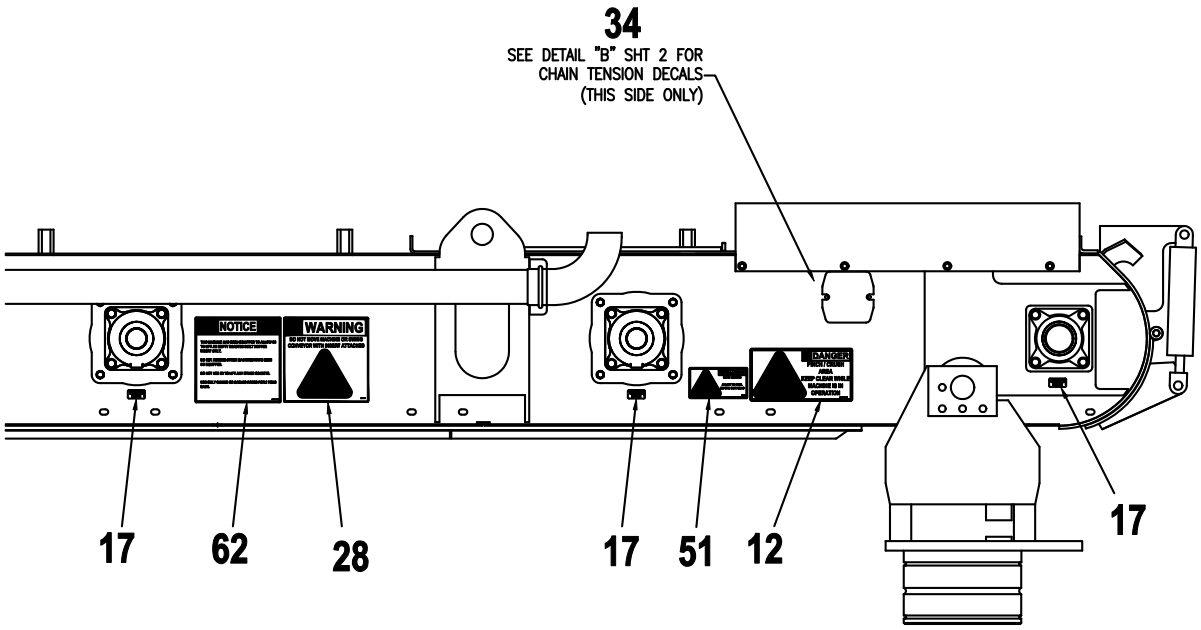
FRONT VIEW

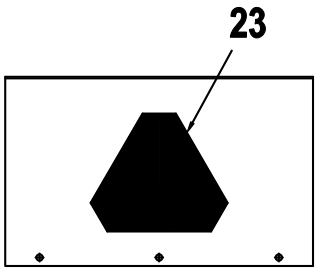
BACK VIEW

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

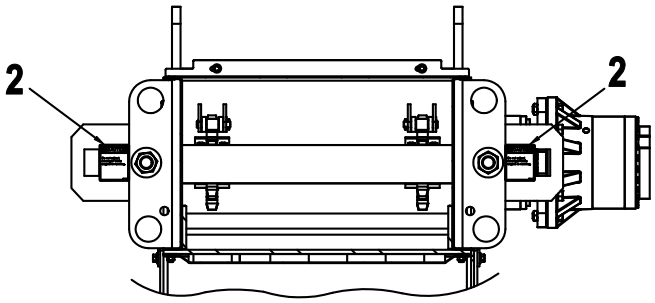
42
UNDER VALVE COVER
LOCATE DECALS
(NOT SHOWN)

SB-2500D DECAL KIT
(230722-01)

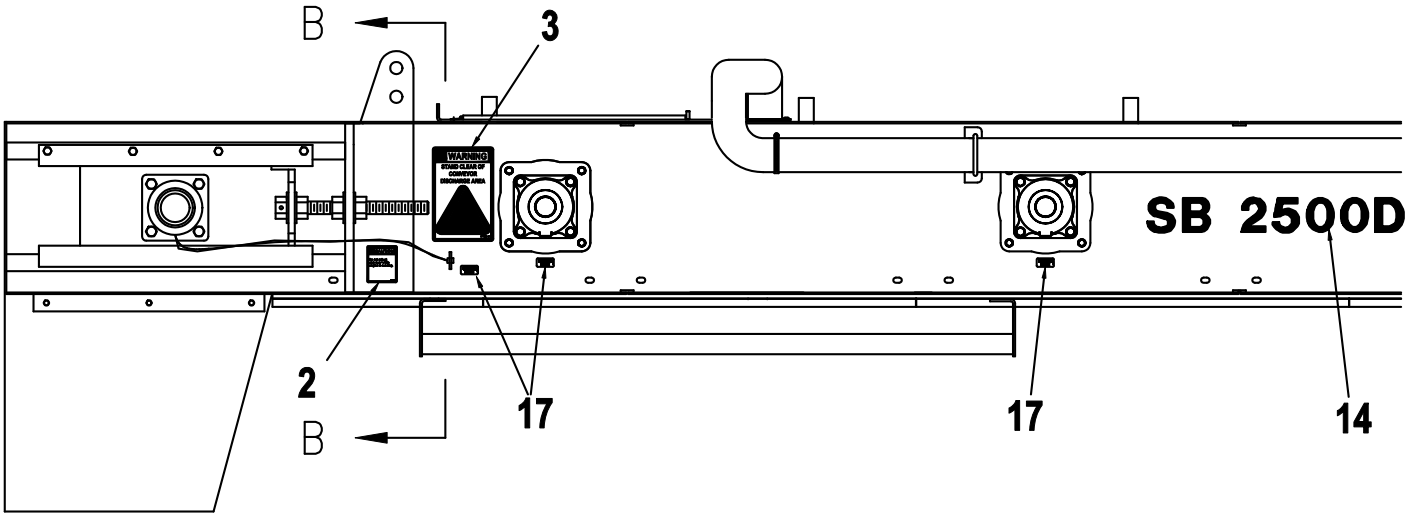




END VIEW

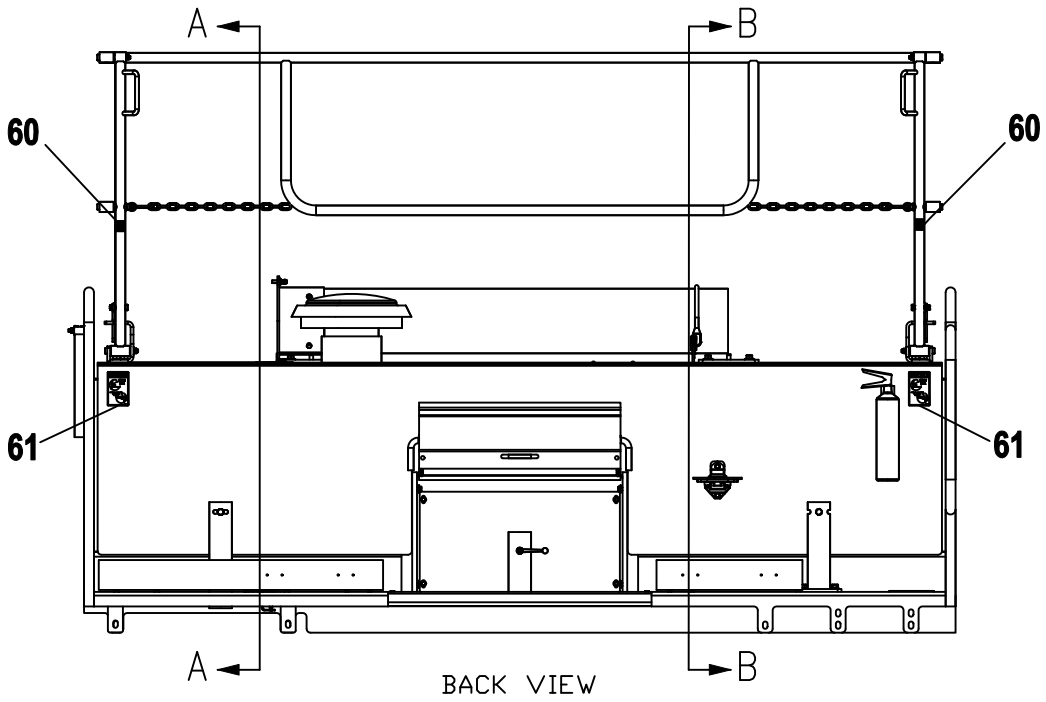


B – B

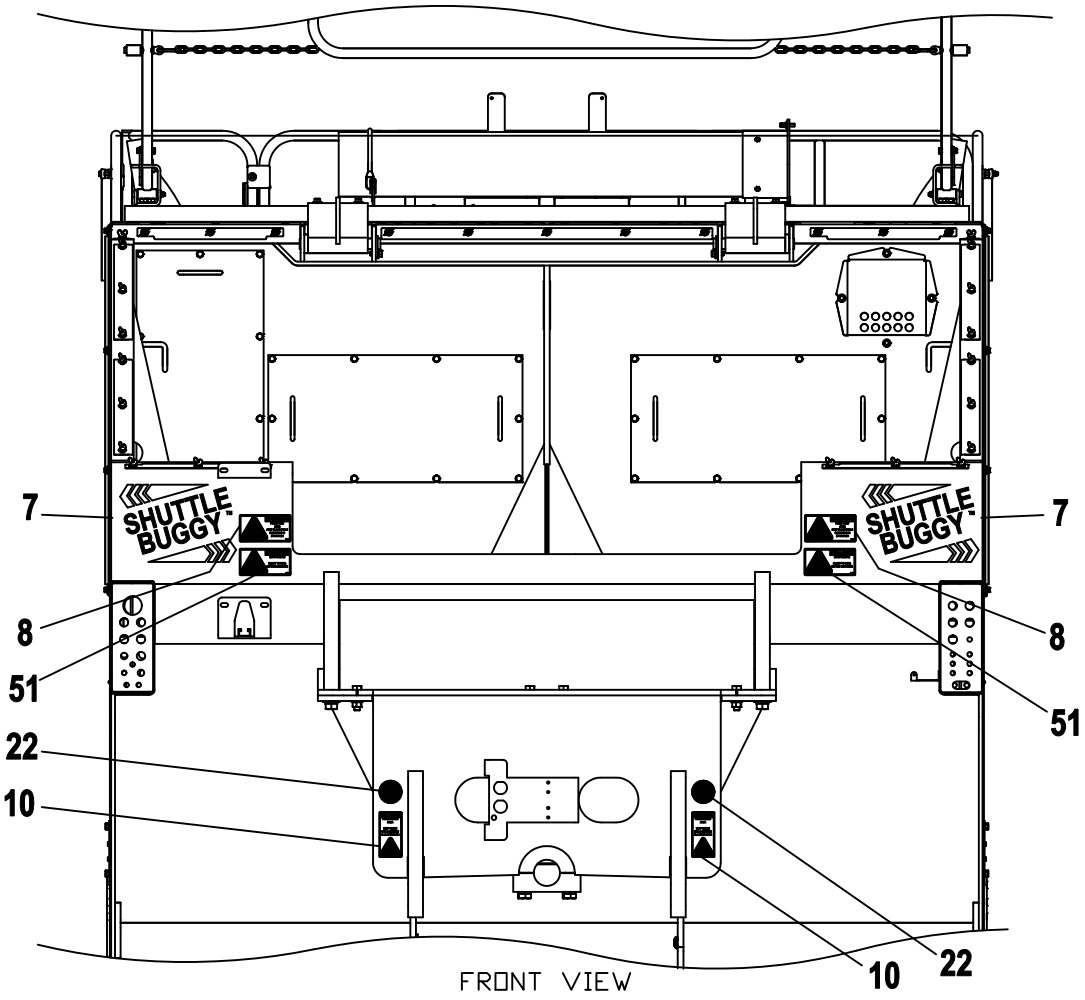


ROADTEC
an Astec Industries Company

SB-2500D DECAL KIT
(230722-01)

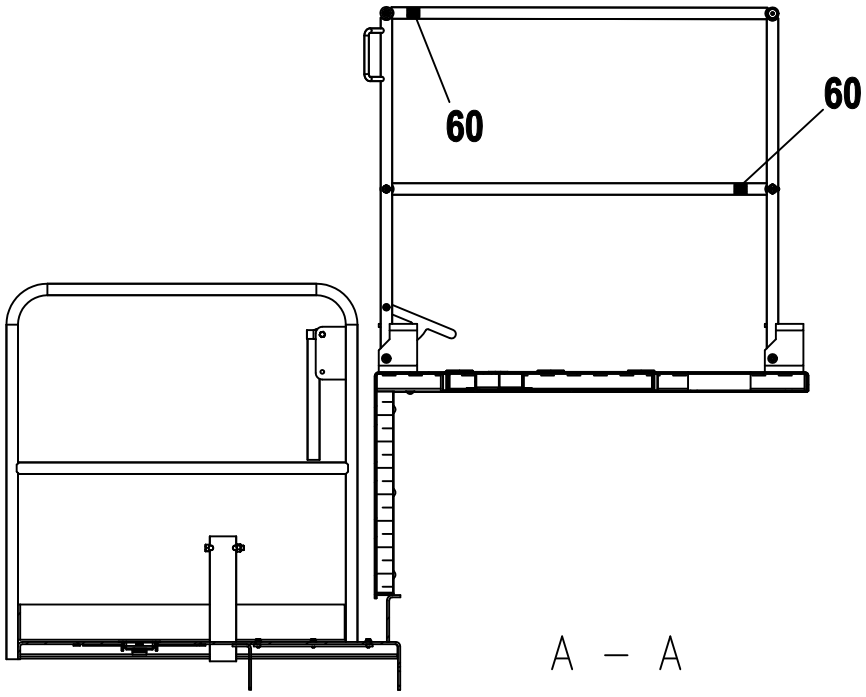


BACK VIEW

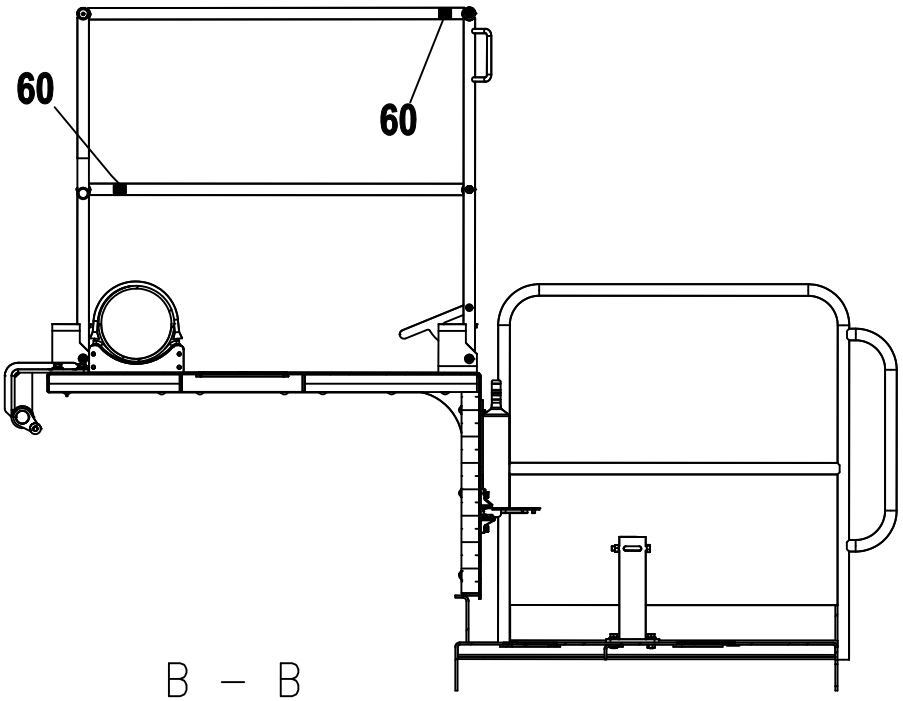


FRONT VIEW

SB-2500D DECAL KIT
(230722-01)

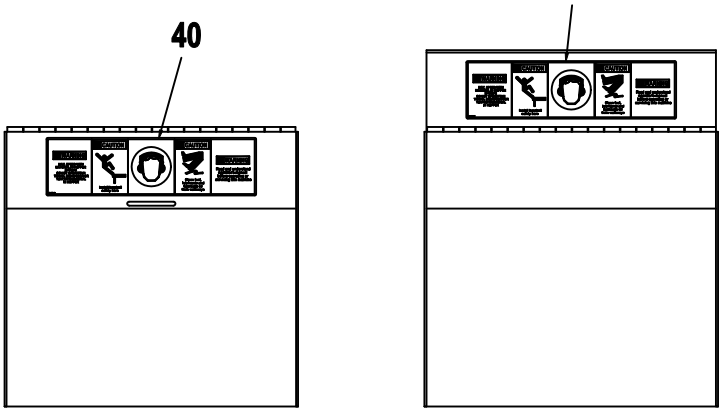


A – A



B – B

SB-2500D DECAL KIT
(230722-01)

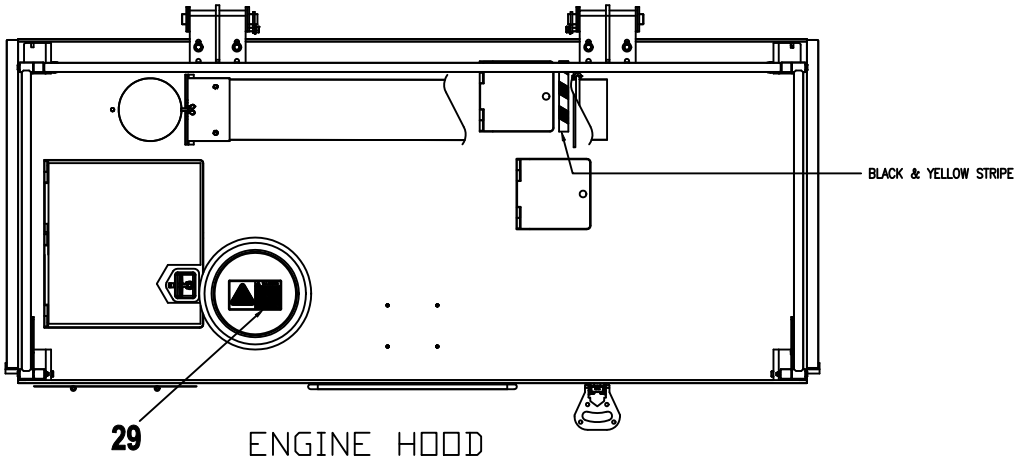


OUTSIDE OF LID

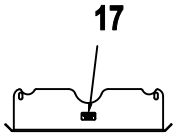
INSIDE OF LID

CENTER CONSOLE

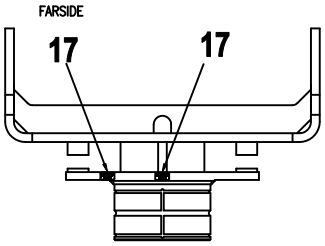
NTS



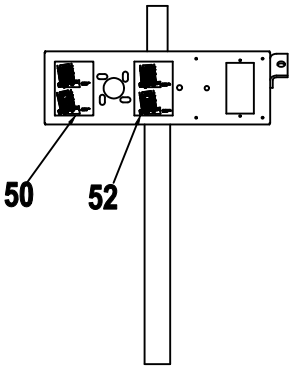
ENGINE HOOD



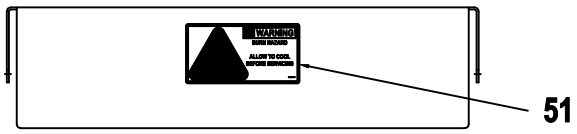
DETAIL C-3 PIVOT GUARD



REAR VIEW OF
C3 CONVEYOR PIVOT

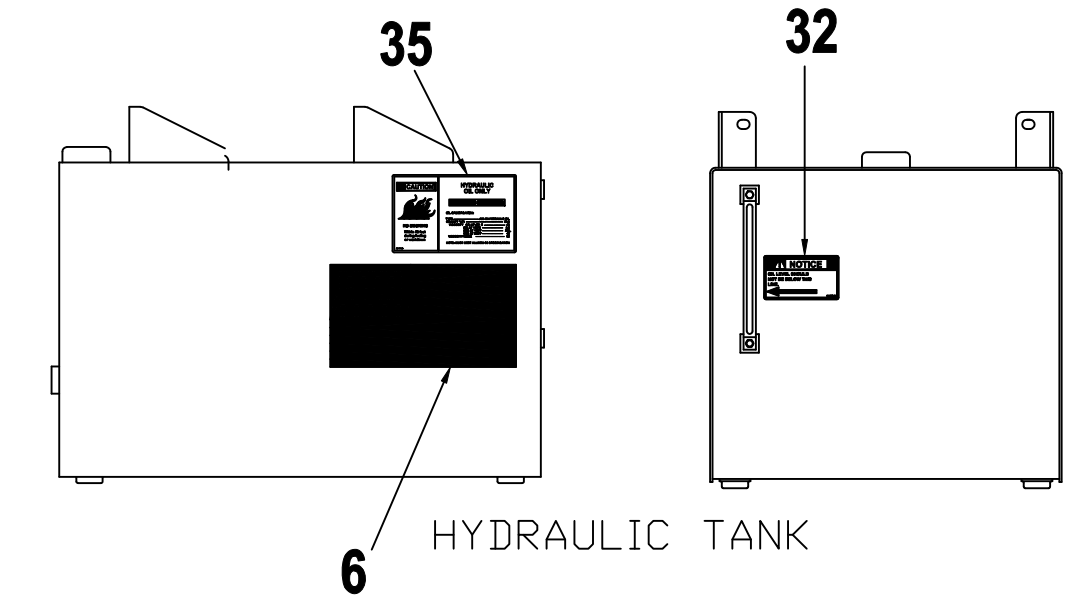


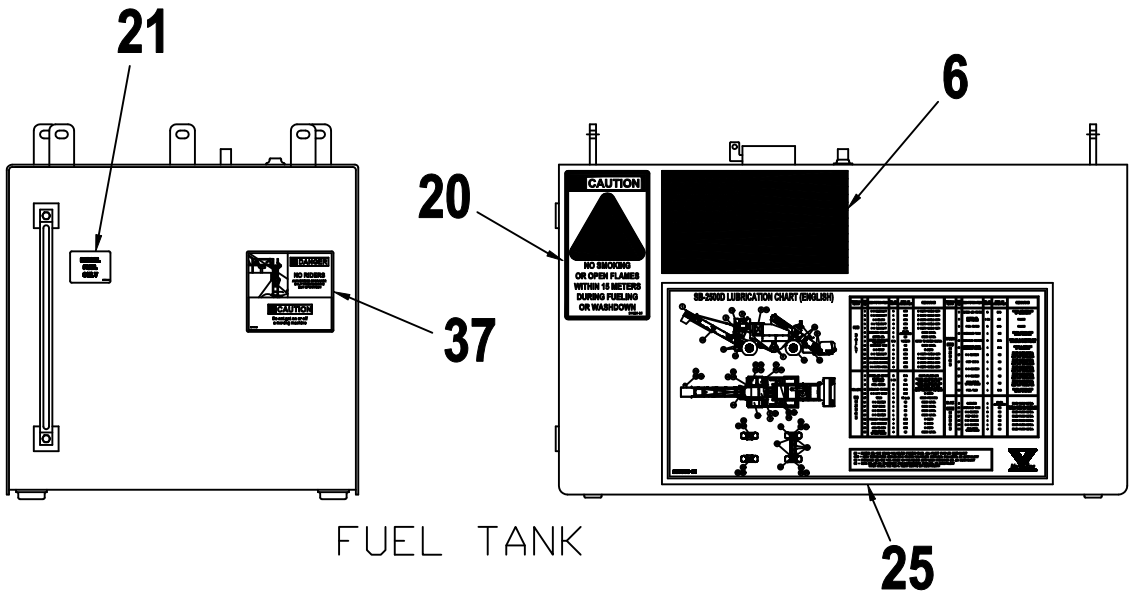
OPERATOR'S CONSOLE

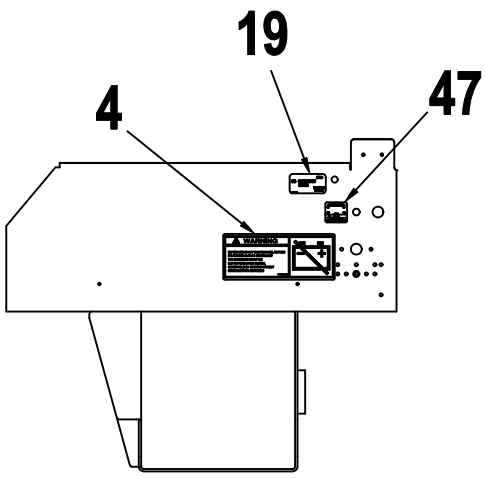


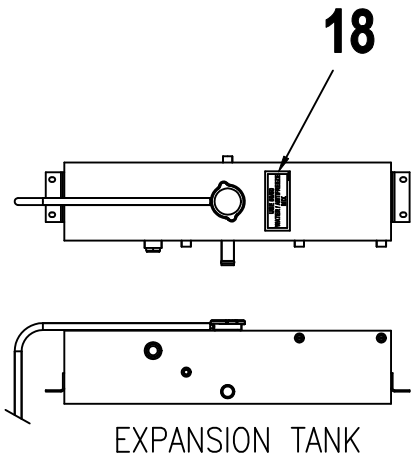
INSIDE ENGINE COMPARTMENT
ON CENTER CONSOLE COVER

SB-2500D DECAL KIT
(230722-01)

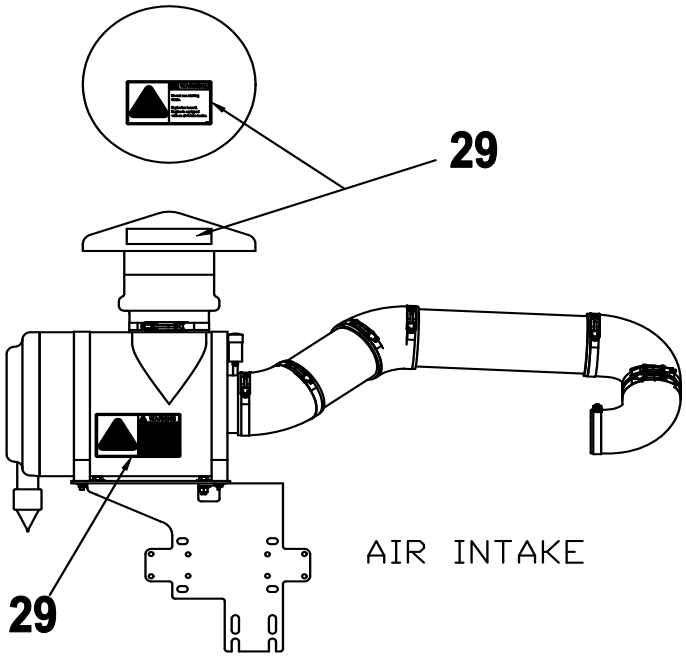


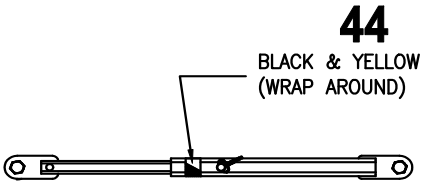




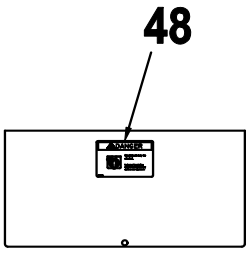


SB-2500D DECAL KIT
(230722-01)





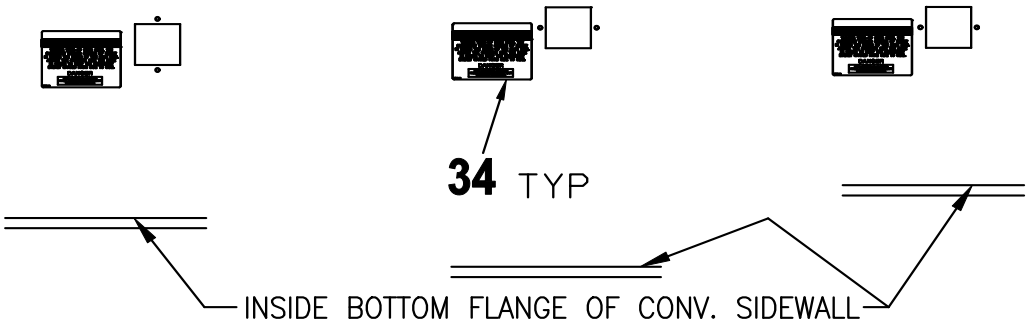
HOOD PROP



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)

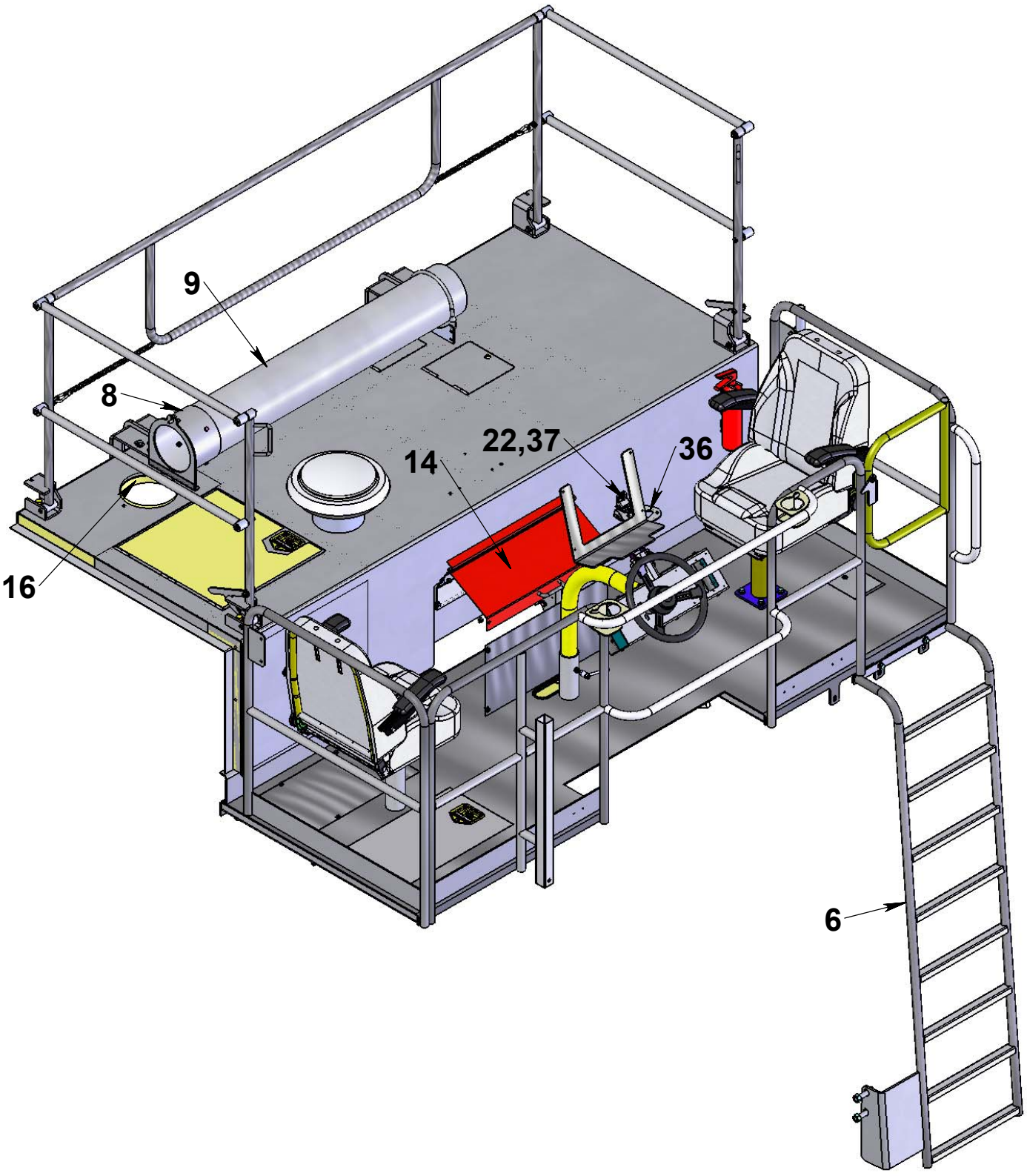
ITEM #	PART NO.	DESCRIPTION	QTY.
1	230706-02	DECAL - HAND PUMP INSTRUCTIONS	1
2	92819-04	DECAL - CONVEYOR ADJUSTMENT	6
3	211258-04	DECAL - WARNING! DISCHARGE AREA	2
4	141326-03	DECAL - BATTERY WARNING	1
5	211262-04	DECAL - WARNING DISCHARGE AREA	2
6	95906-03	DECAL - AMERICAN FLAG - 8 1/4" X 15"	2
7	95875-02	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)

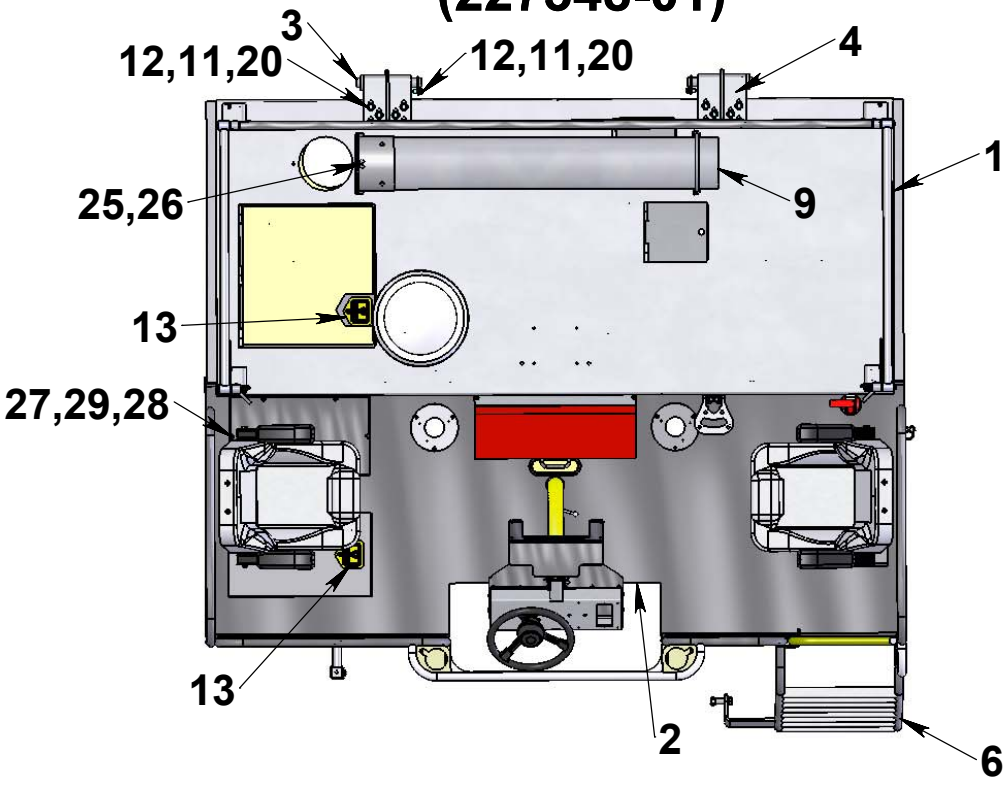
ITEM #	PART NO.	DESCRIPTION	QTY.
46	202078-04	ON/OFF DECAL	1
47	205144-04	DECAL - GROUND CONNECTION ON/OFF	1
48	207966-04	DECAL - BATTERY LOCKOUT/TAGOUT	1
49	211276-04	DECAL - UNAUTHORIZED PERSONNEL KEEP BACK	2
50	211269-03	DECAL - SAFE TRAVEL GRADE	1
51	211270-04	DECAL - WARNING! BURN HAZARD	7
52	211348-03	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

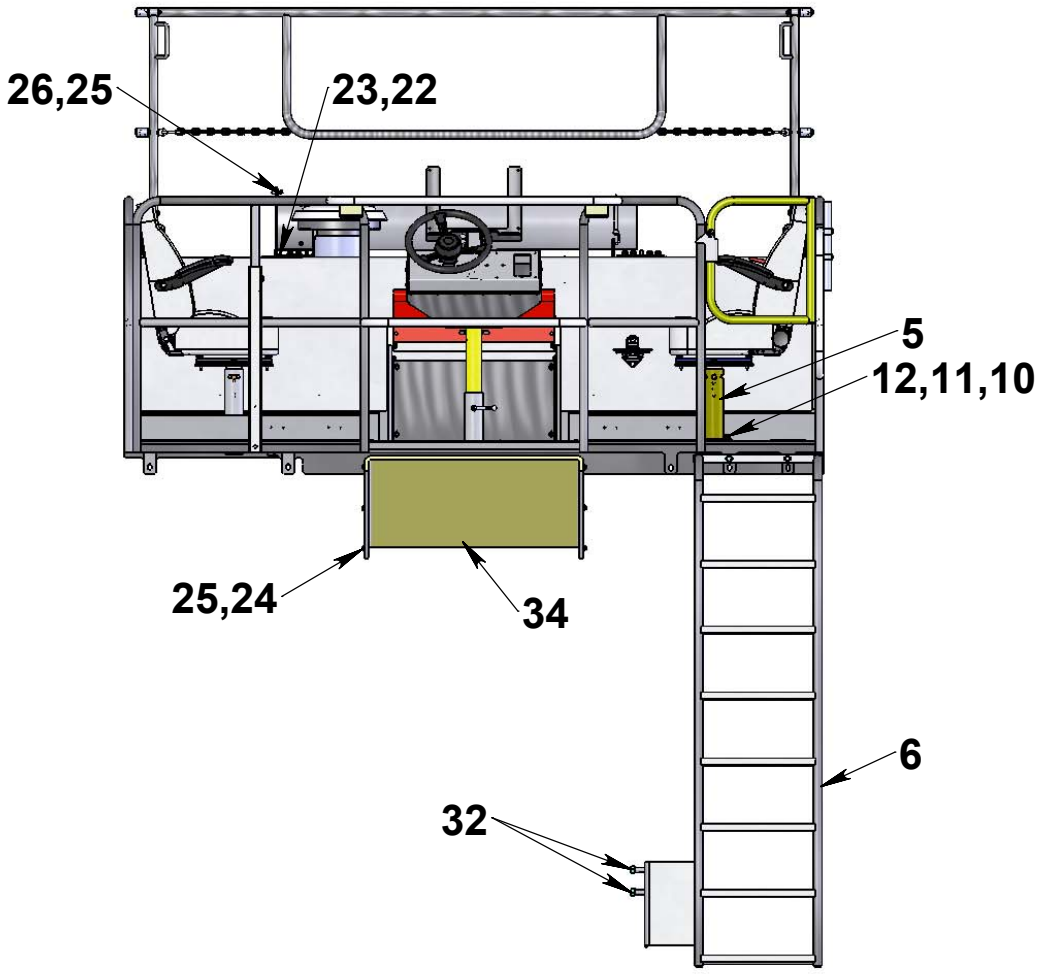
ASSEMBLY-PLATFORM & HOOD
(227348-01)

NEXT PAGE



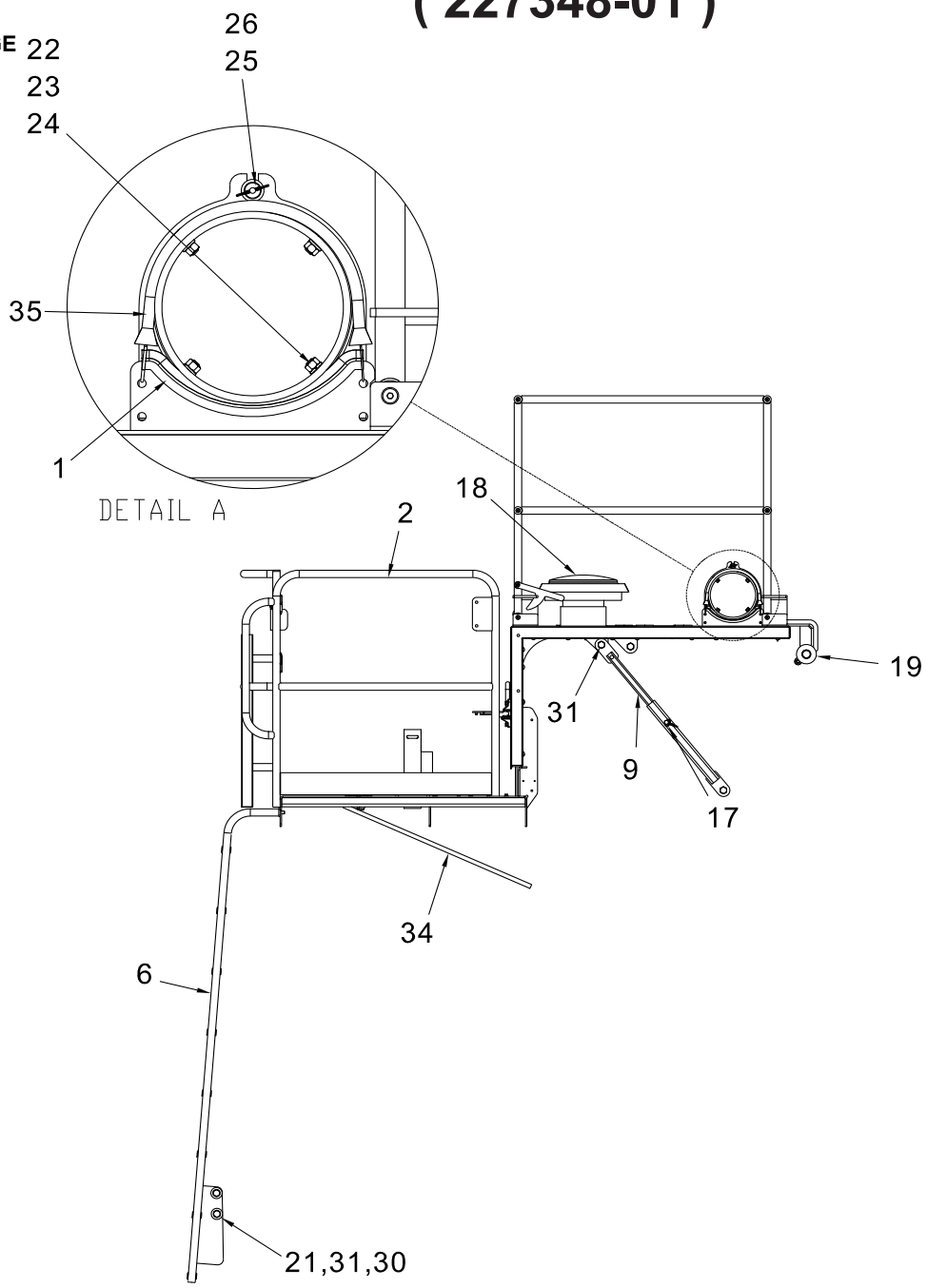
ASSEMBLY-PLATFORM & HOOD (227348-01)

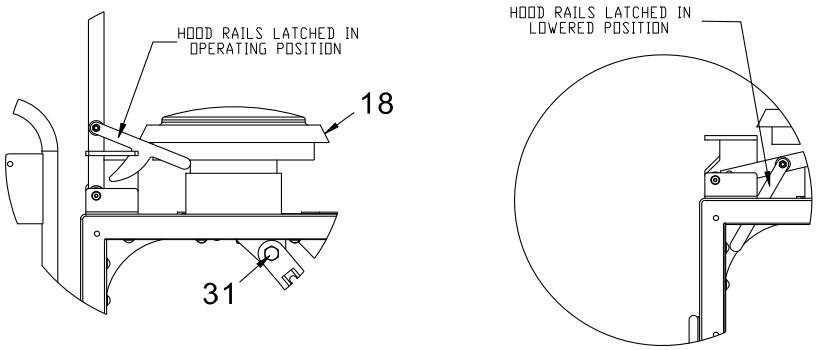




ASSEMBLY-PLATFORM & HOOD
(227348-01)

PREVIOUS PAGE



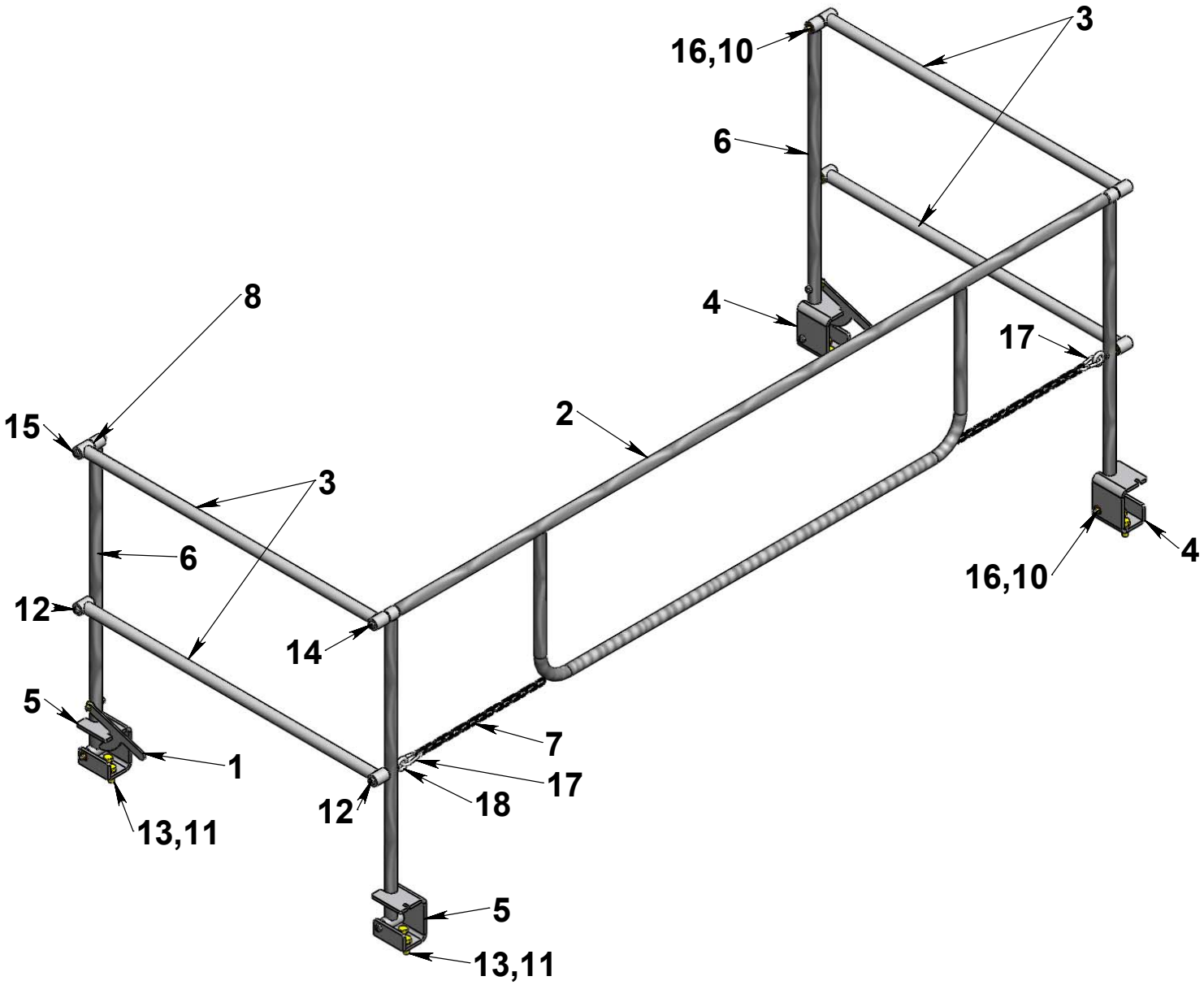


DETAIL B

ASSEMBLY-PLATFORM & HOOD (227348-01)

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

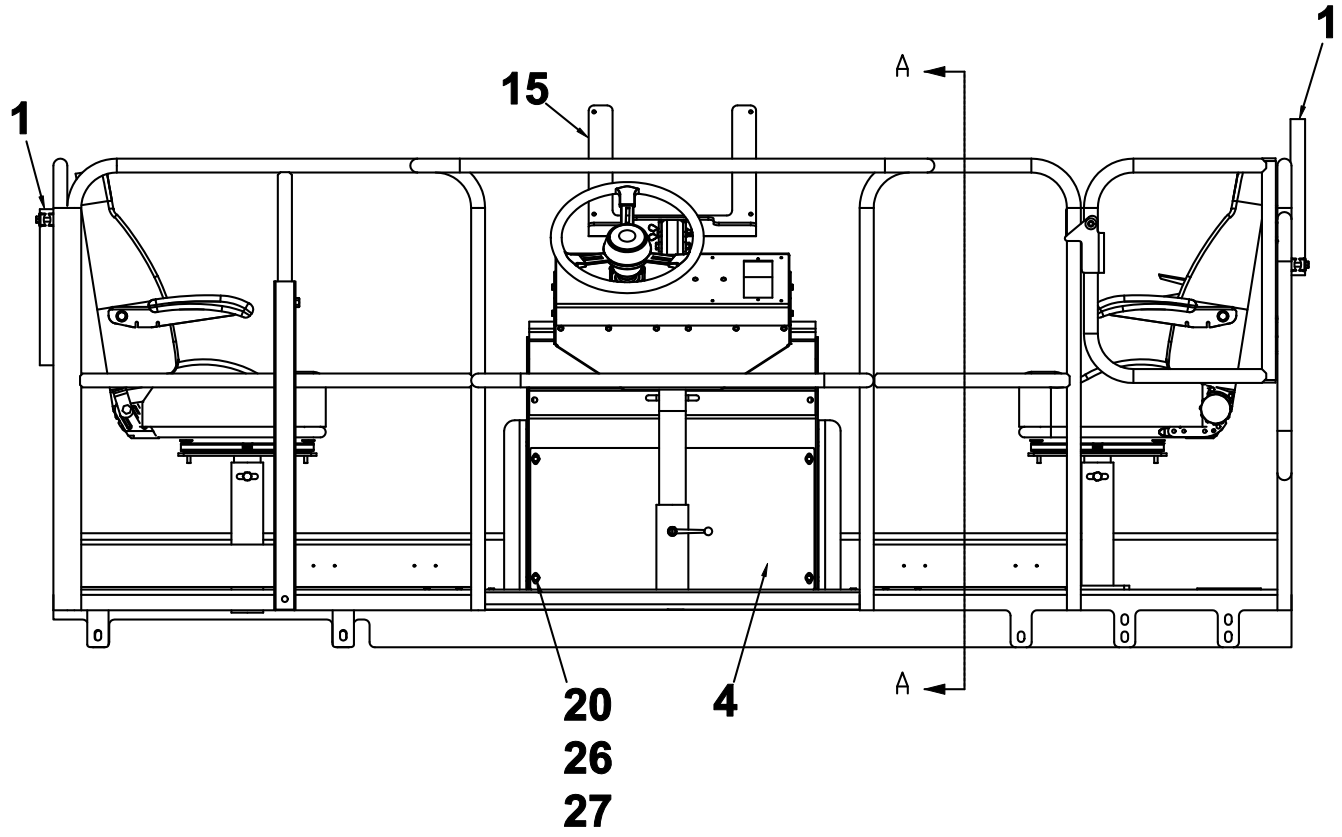
ASSEMBLY-HOOD RAILS, FOLDING
(224025-01)

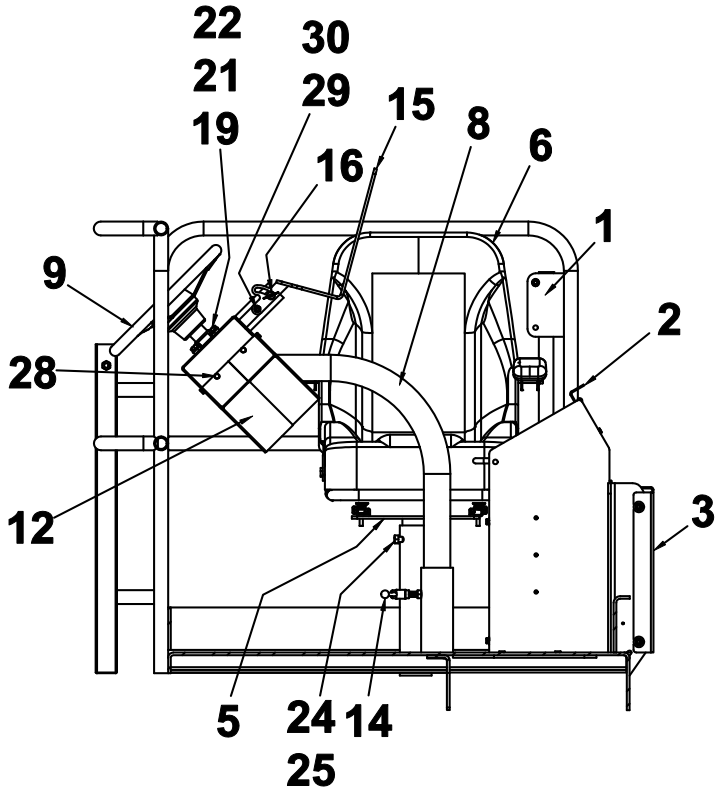


ITEM #	PART #	DESCRIPTION	QTY
1	224025-01-1	PLATE, 1/4 x 9 x 4 1/4, A36	2
2	224026-01	WELDMENT-HOOD RAIL, FRONT	1
3	224027-01	WELDMENT-HOOD RAIL, TOP & MID	4
4	224031-03	DETAIL-HOOD RAIL MOUNT, LEFT	2
5	224032-03	DETAIL-HOOD RAIL MOUNT, REAR LEFT	2
6	224028-01	WELDMENT-HOOD RAIL, REAR	2
7	127750	CHAIN * 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



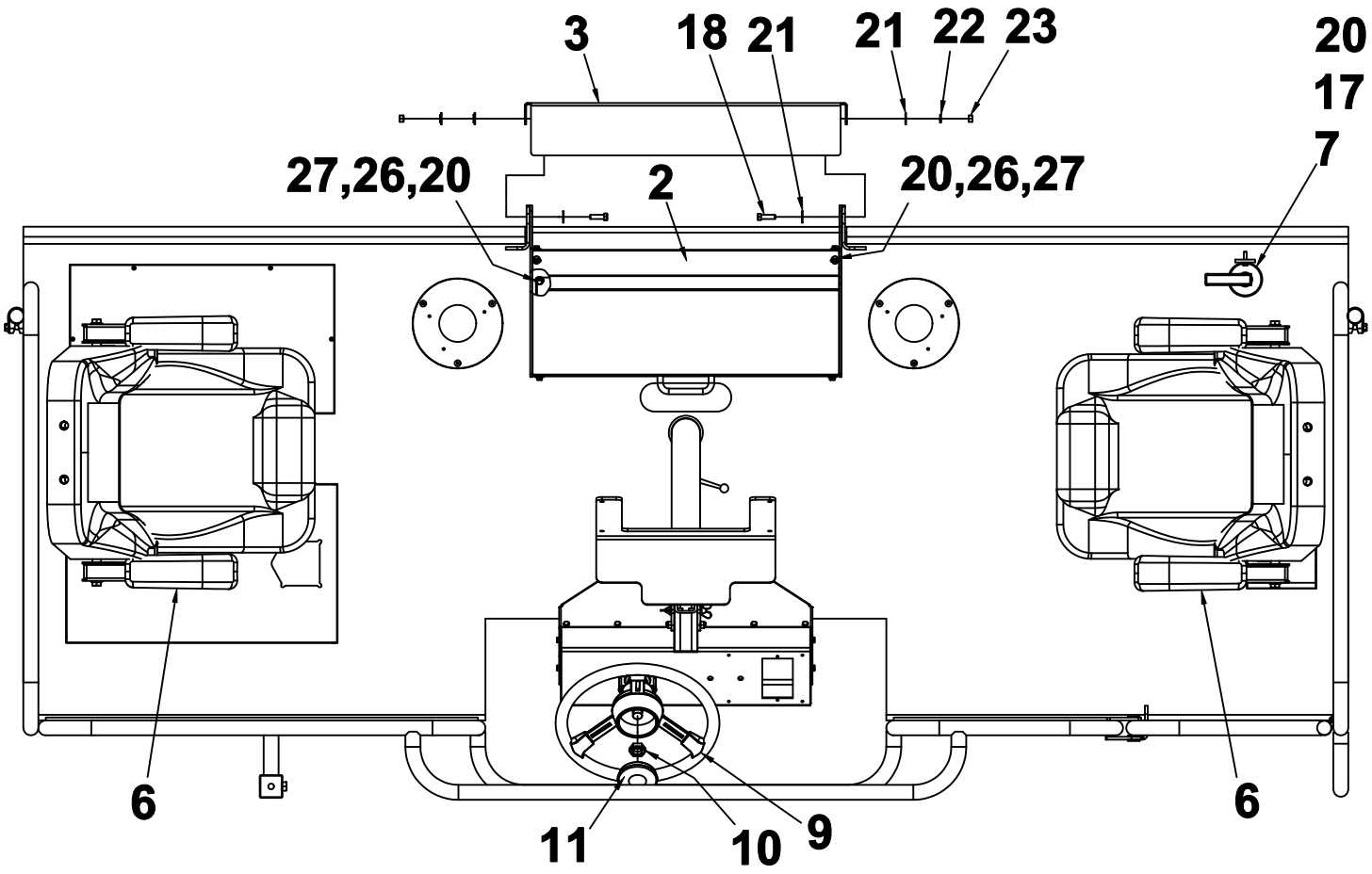


SECTION A-A

ROADTEC
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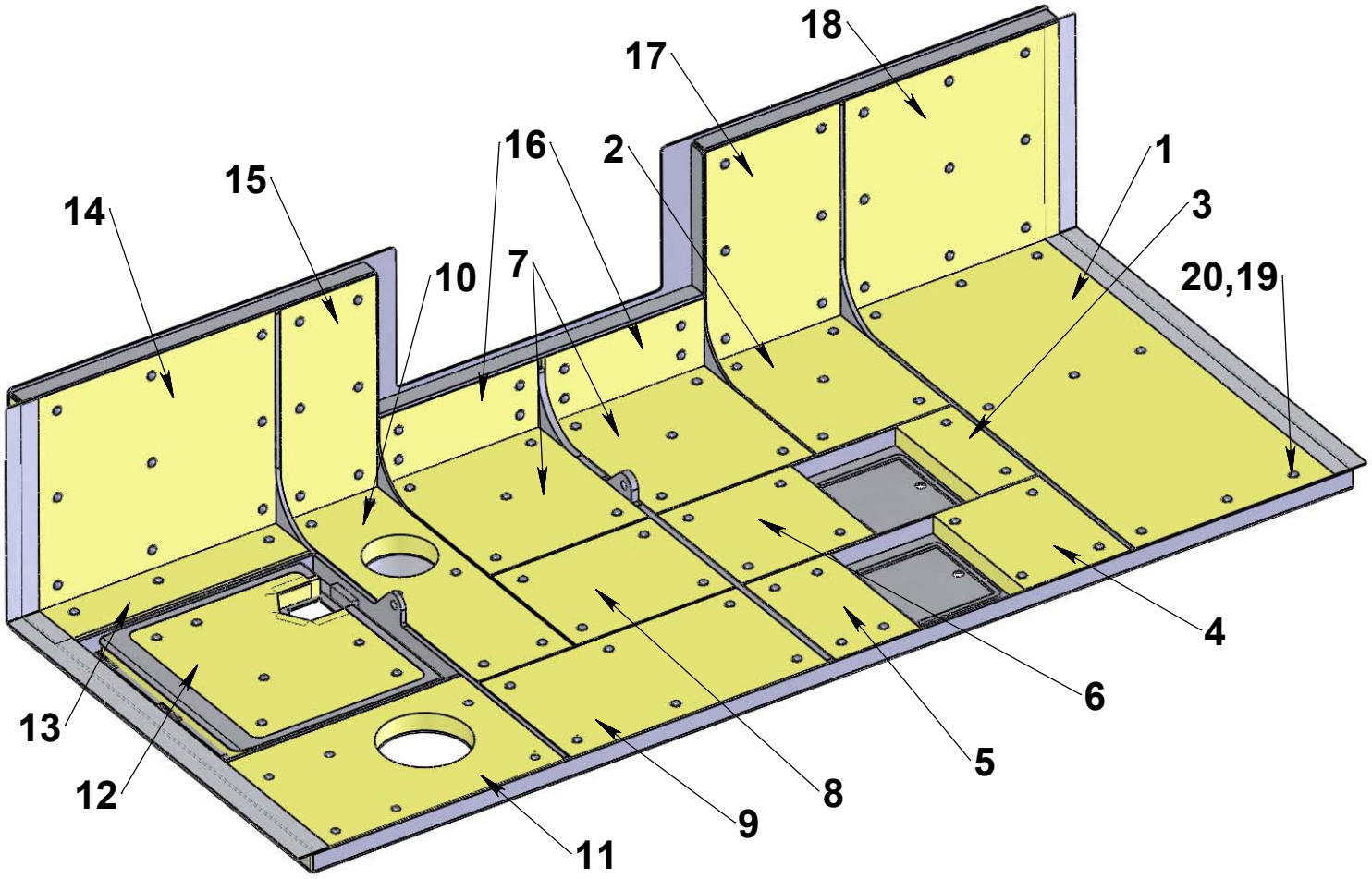
ASSEMBLY-OPERATORS STATION
(227349-01)



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

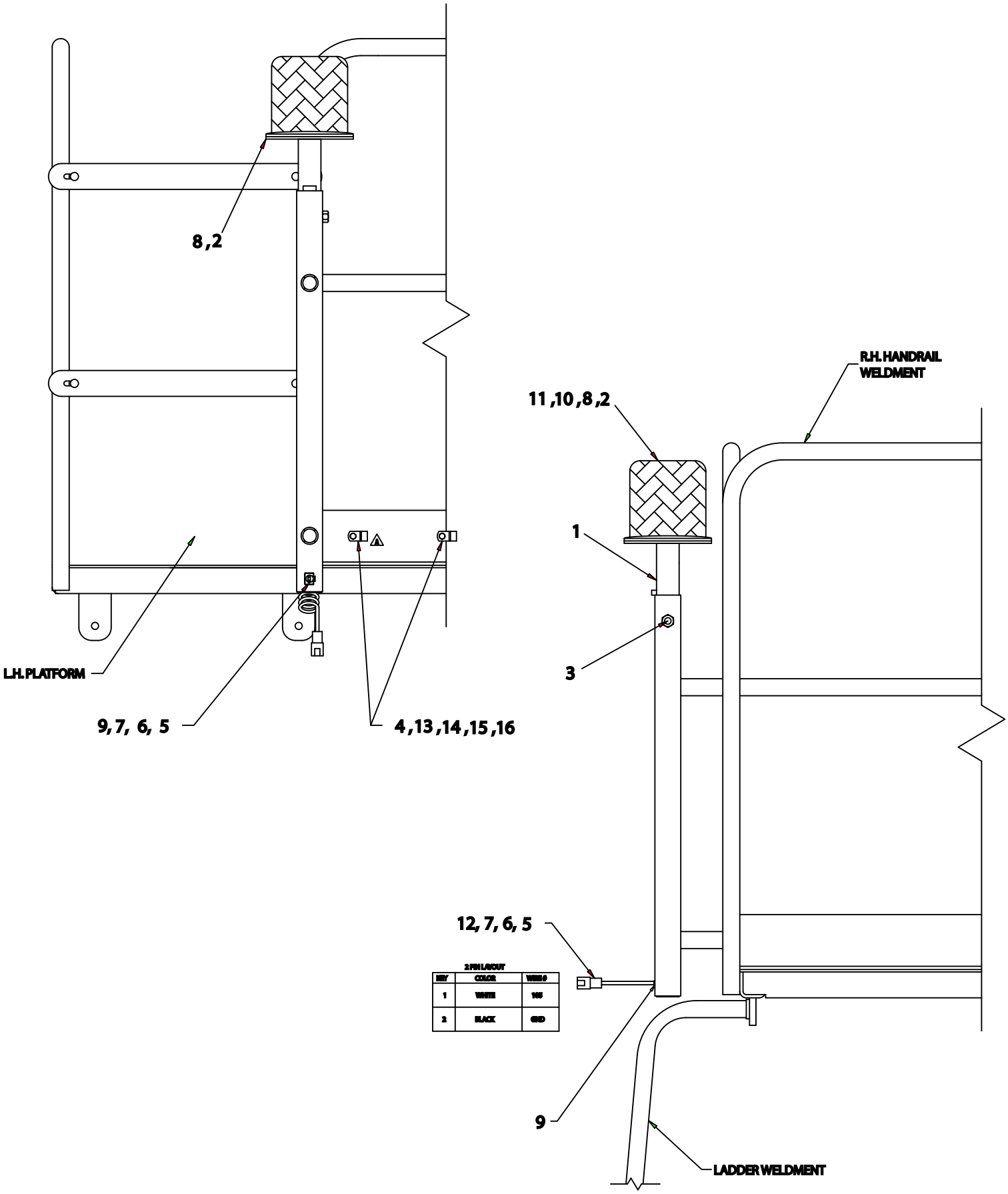
ITEM #	PART #	DESCRIPTION	QTY
1	99386	UMBRELLA * UNIVERSAL BRACKET	2
2	146496-01	WELDMENT-VANDAL COVER-1500B	1
3	217022-03	REAR CONSOLE COVER	1
4	203310-03	DETAIL-CENTER CONSOLE FRONT COVER	1
5	128095-02	WELDMENT-SEAT BASE	2
6	224953-04	SEAT * WHITE DRIVER W/ RECLINE ADJU	2
7	99583	FIRE EXTINGUISHER 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)



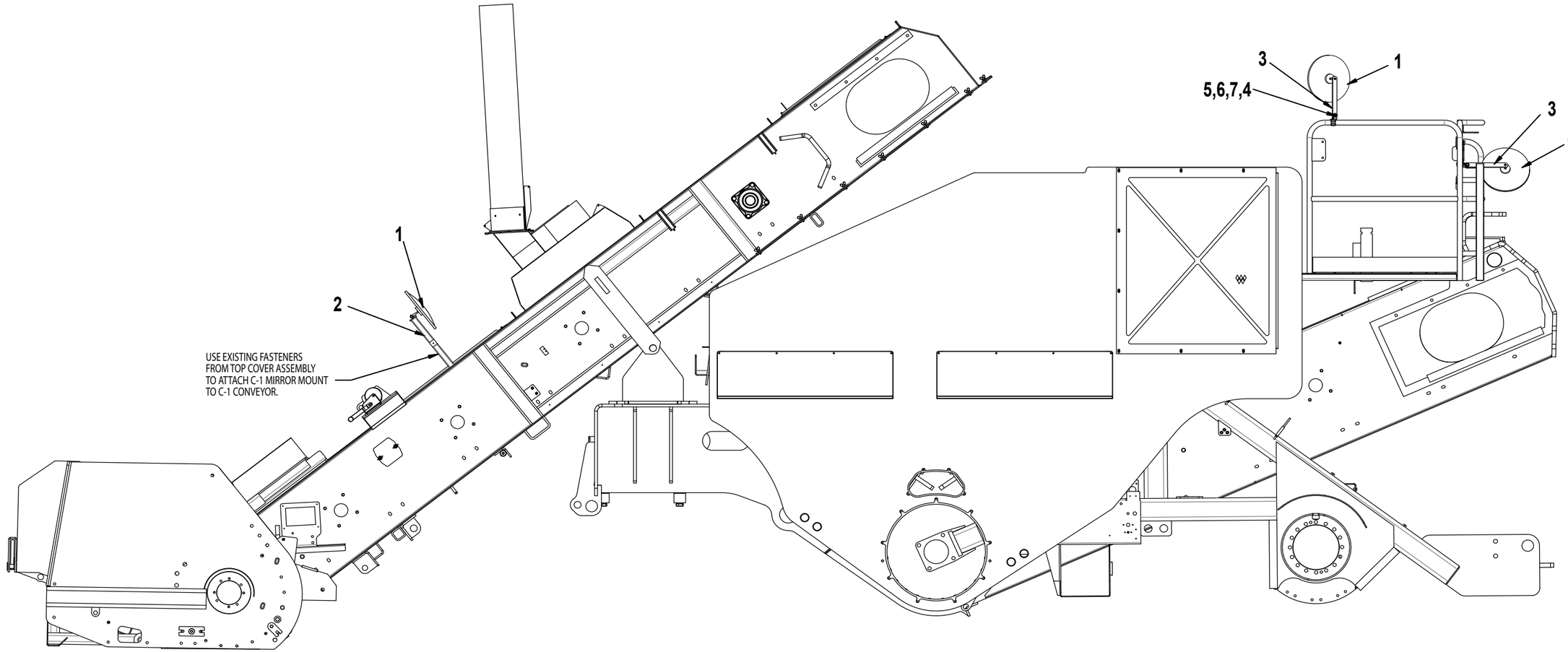
SB-2500D STROBE LIGHT ASSEMBLY
(214370-01)

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

MIRROR ASSEMBLY
(202080-01)

NEXT PAGE

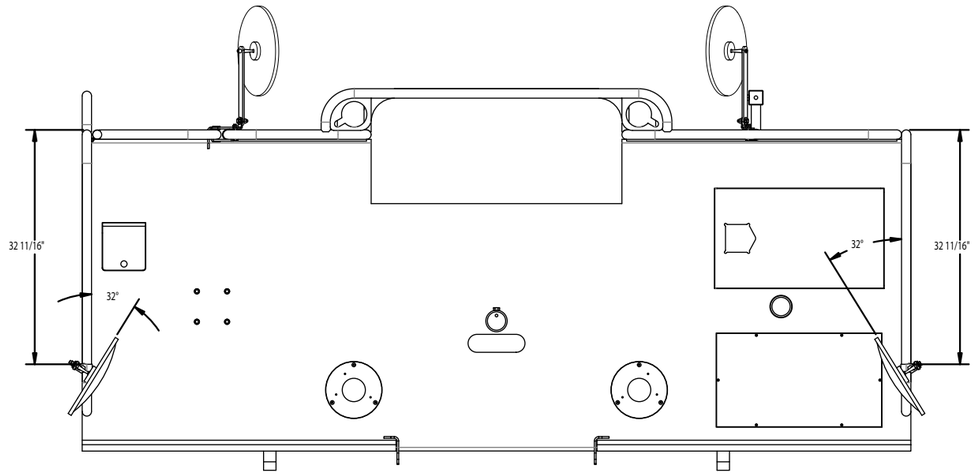
ITEM #	PART #	DESCRIPTION	QTY.
1	133459-04	MIRROR * 12" DIA.	6
2	201210-03	WELDMENT-C1 MIRROR MOUNT-2500C	2
3	133460-04	DETAIL-MIRROR MOUNTING ARM	4
4	96476	BOLT * HEX 3/8"-16 X 1 1/4"	4
5	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
6	83055	NUT * 3/8-16 HEX GRADE 8	4
7	83757	WASHER ~ FLAT 3/8 STEEL	8



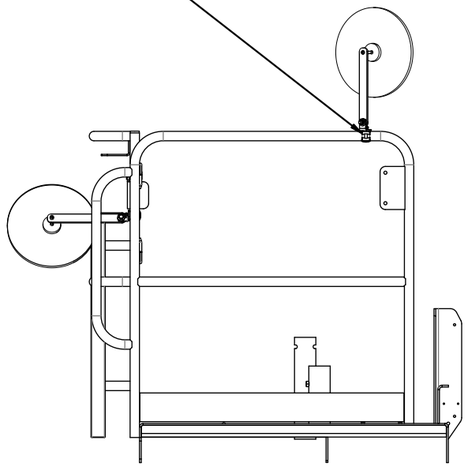
ASSEMBLE MIRRORS AS SHOWN ON THE LEFT AND RIGHT SIDES OF THE MACHINE.

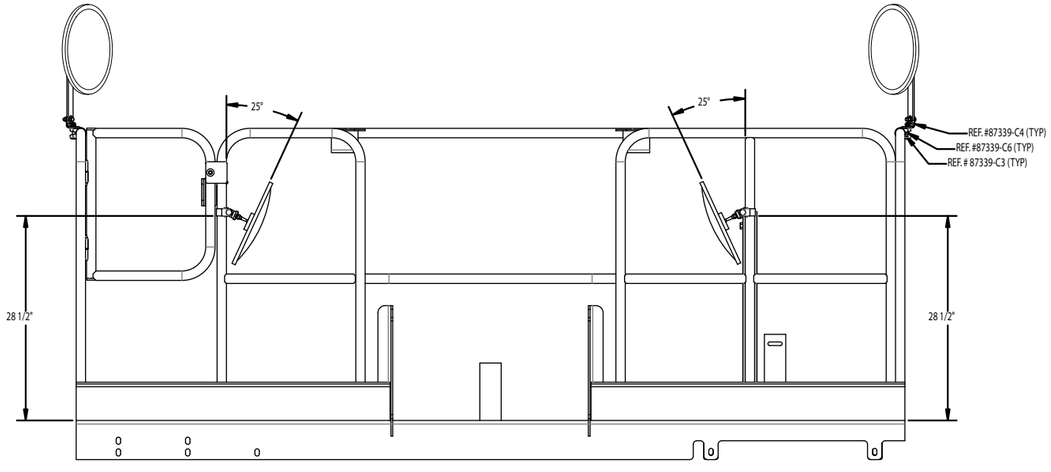
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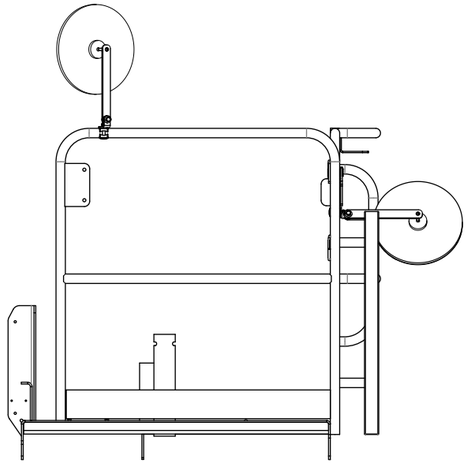
MIRROR ASSEMBLY
(202080-01)



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





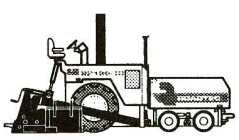


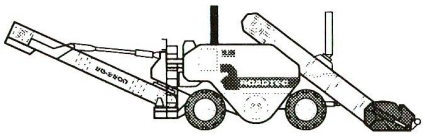
MIRROR ORIENTATION VIEWS

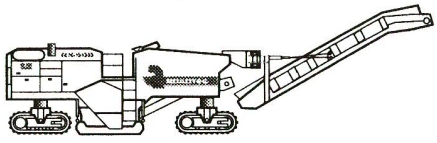
ROADTEC
an Astec company

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

TOLL FREE 800-272-7100







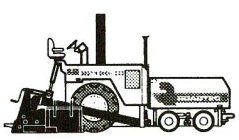
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

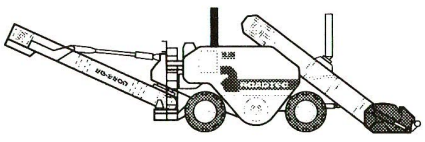
ROADTEC
an Astec Industries Company

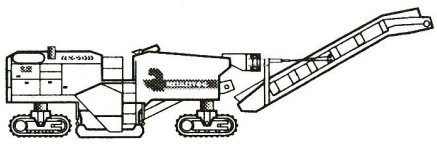
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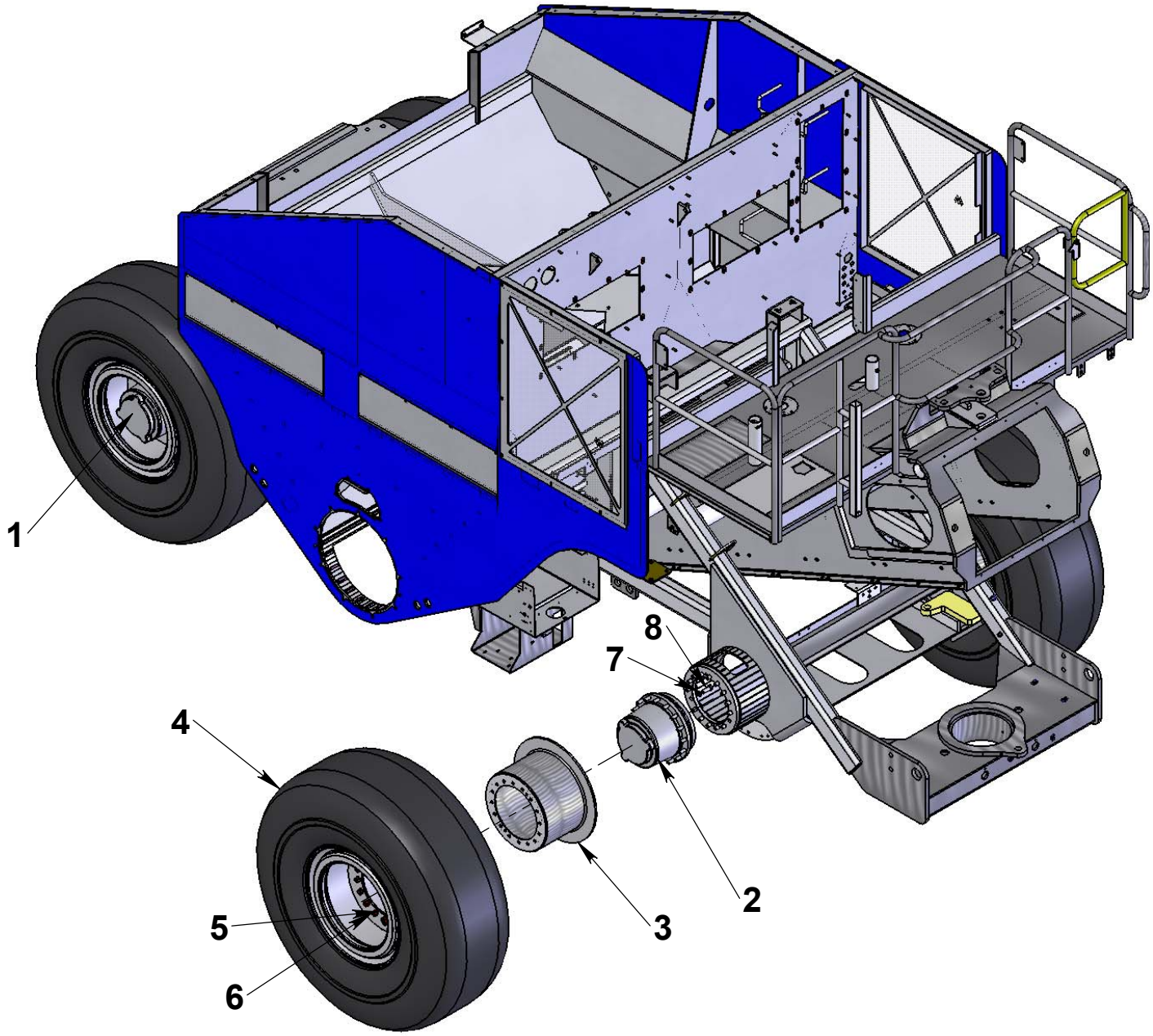
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SECTION 3 : AXLE & DRIVE

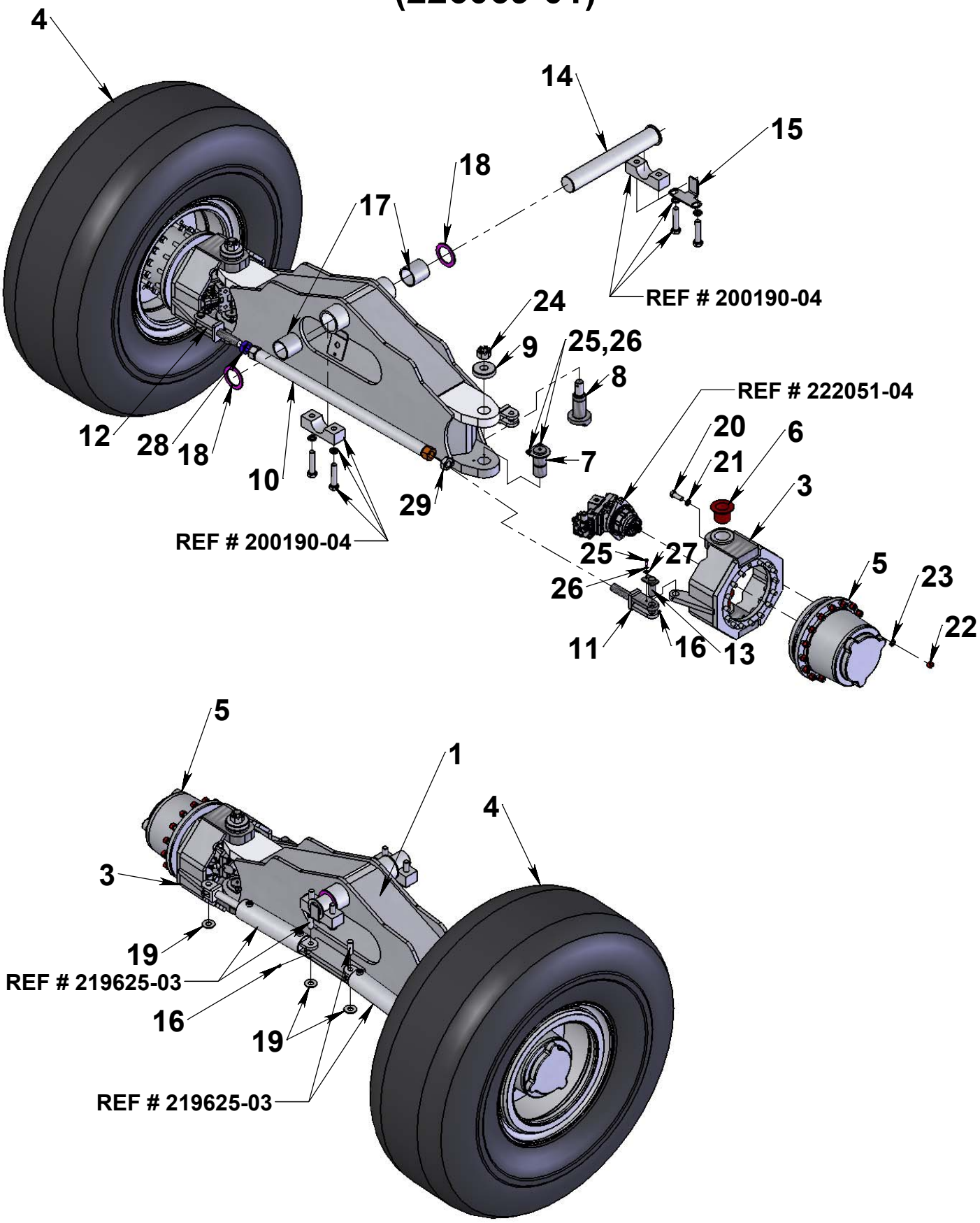
ASSEMBLY	PART NO.	S/N	PAGE NO.
FRONT & REAR AXLE	226435-01	1038,1044 & UP	3.1
DRIVE AXLE	226069-01		3.3
TRANS. GEAR BOX	218897-01		3.5
PROPEL MOTOR	222051-04		3.7

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

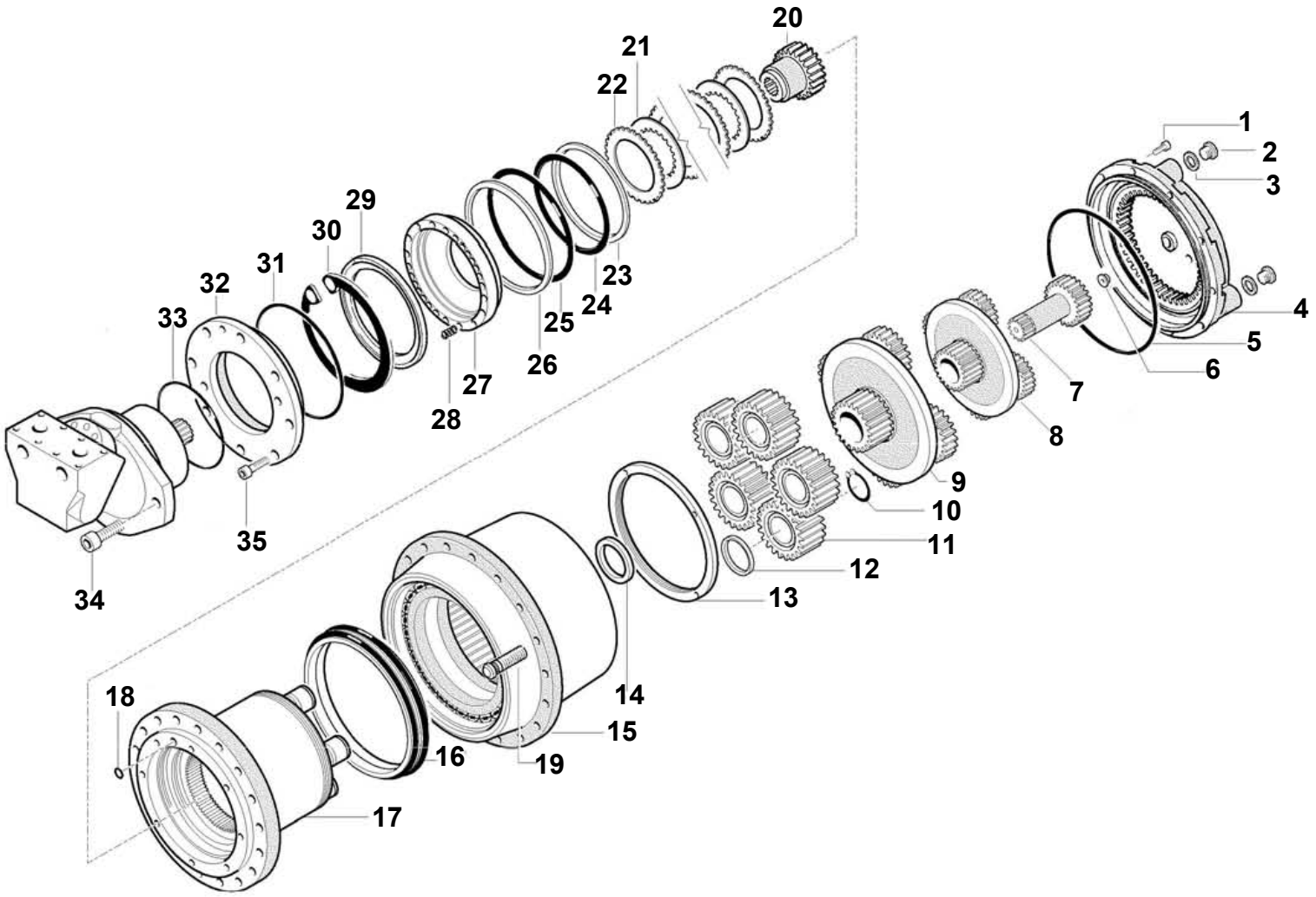
ASSEMBLY-FRONT STEERING AXLE
(226069-01)



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)

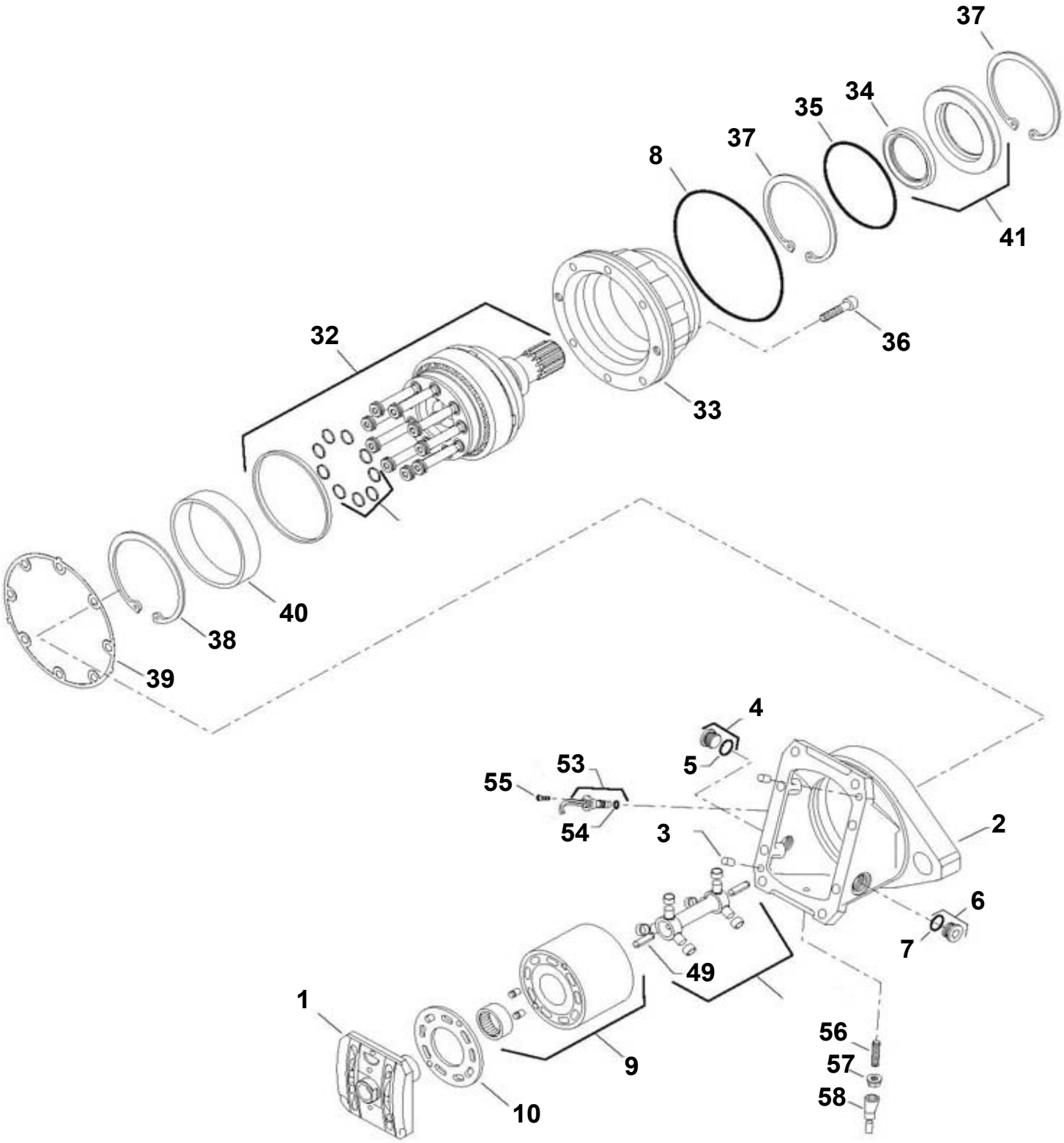


SB-2500D TRANS. GEAR BOX ASSY.
(218897-01)

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			

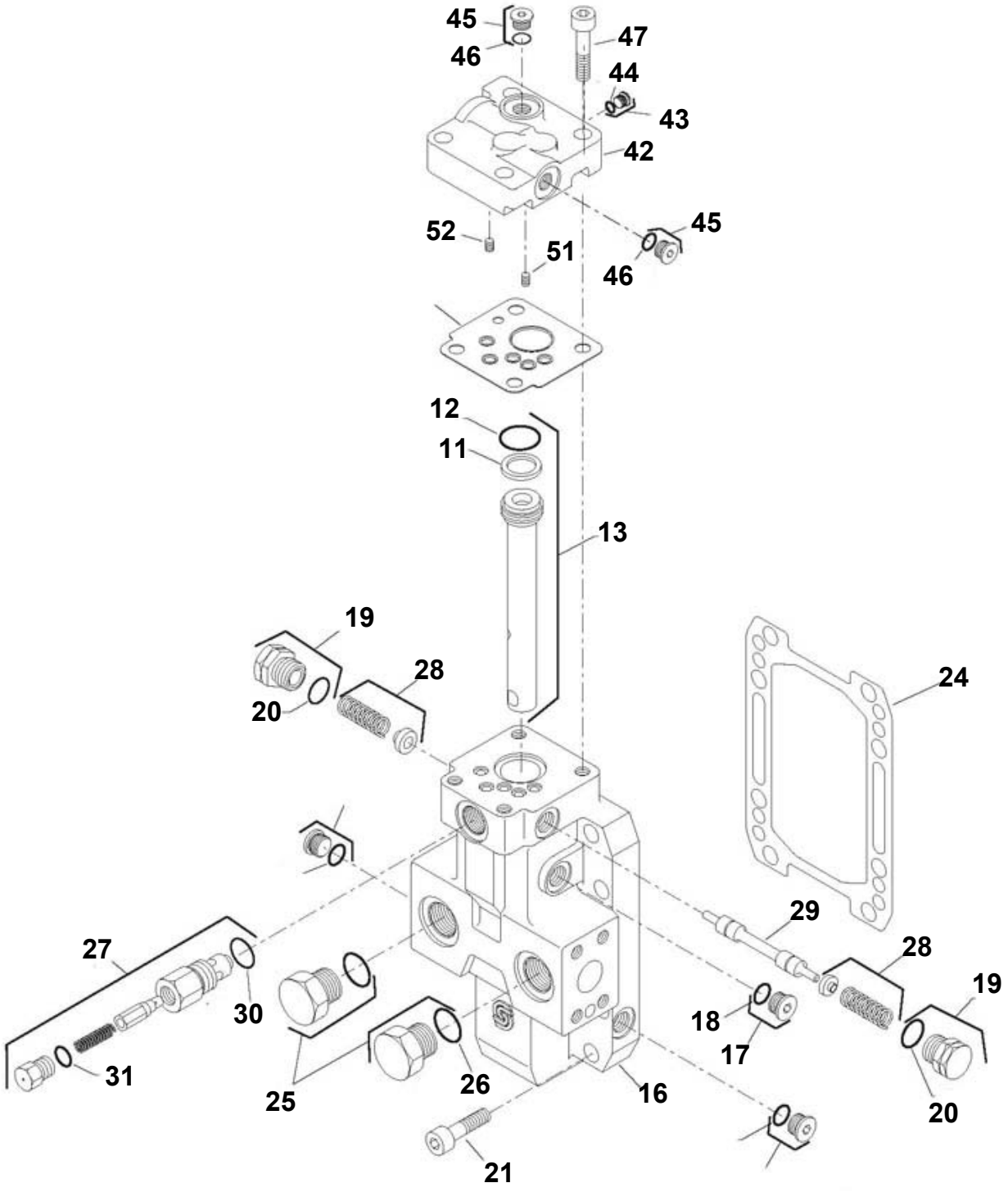
PROPEL MOTOR
(222051-04)

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)

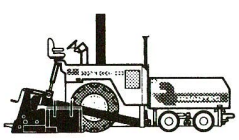
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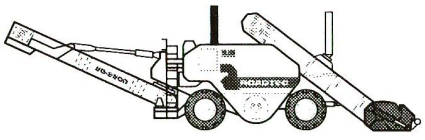
ITEM #	PART NO.	DESCRIPTION	QTY.
46		PLUG	2
47		O-RING	4
48		SCREW	4
49		SAFETY CAP, GREEN	1
50		SYNCH SHAFT KIT	1
51		PISTON RING KIT	1
52		ORIFICE, 0.8 M6 X 8	1
53		ORIFICE, 0.8 M6 X 8	1
54		SPEED SENSOR	1
55		O-RING	1
56		SCREW	1
57		SET SCREW, FLAT POINT, M10 X 65	1
58		SEAL NUT, M10	2
59		OVERHAUL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

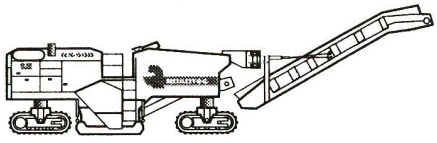
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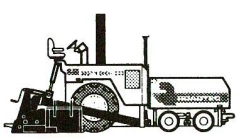
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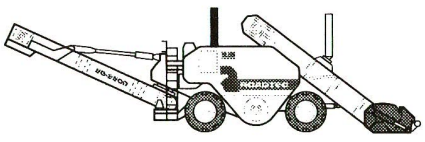
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an Astec Industries Company

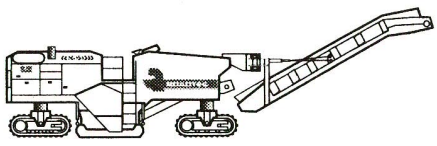
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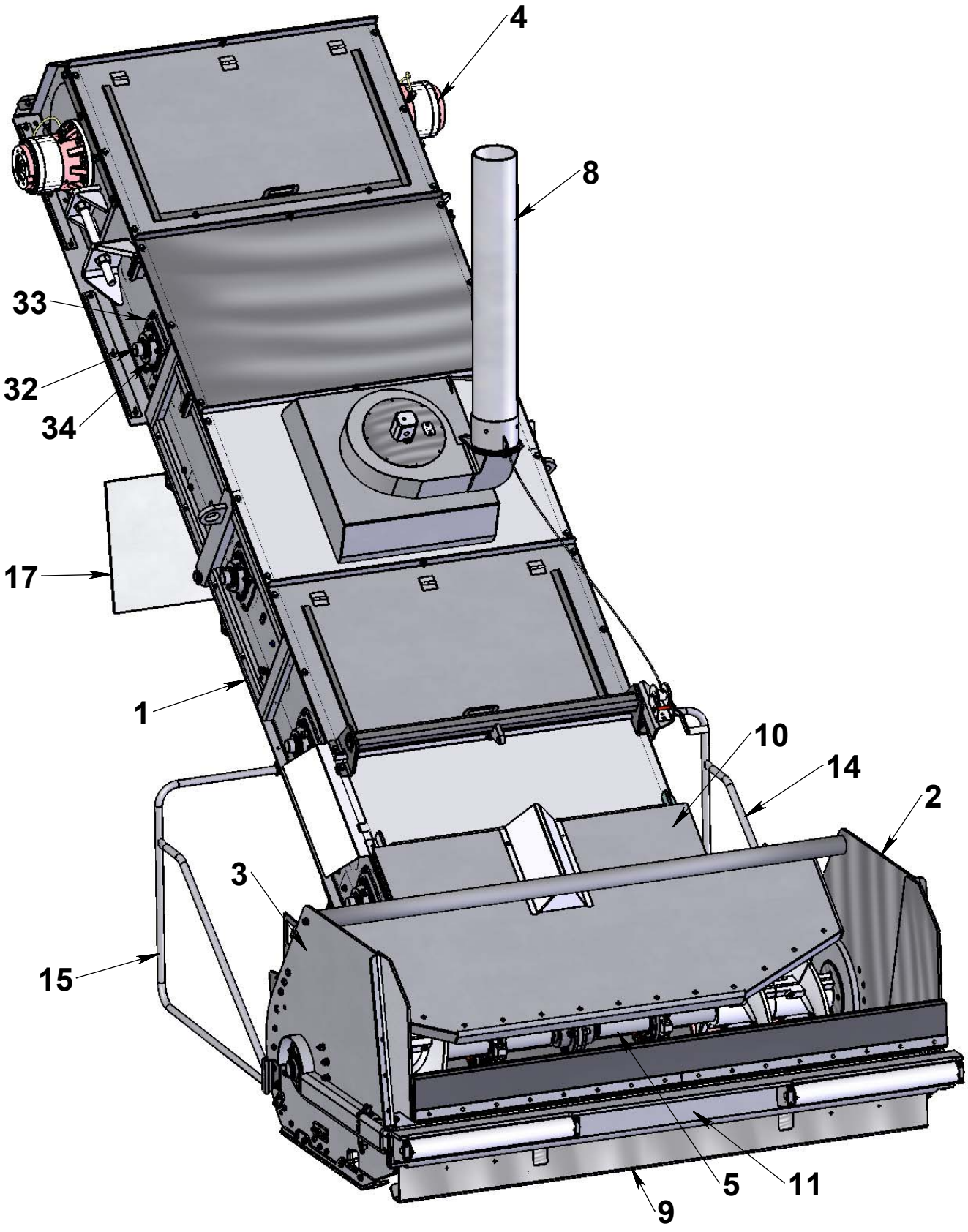
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SECTION 4 : CONVEYORS

ASSEMBLY	PART NO.	S/N	PAGE NO.
C-1 CONVEYOR	236472-01	1181 & UP	4.1
C1 CHAIN	223580-02		4.5
FOOTSHAFT & AUGER	330774-01	1181 & UP	4.6
HEADSHAFT & TAKE- UP	235540-01	1163 & UP	4.7
C-1 & C-3 DRIVE GEARBOX	29E38		4.9
C-1 DRIVE MOTOR	142642-04		4.11
TOP COVER W/FUME	214495-01	820 & UP	4.13
WEAR PLATES	226830-01	1044 & UP	4.15
DUMP HOPPER	223153-01		4.17
VIBRATOR	214654-01		4.19
BAFFLE	221906-01	942 & UP	4.20
HYD. PUSH ROLLER	212468-01	780 & UP	4.21
CASTER & SKIDS	148085-01		4.23
WHEEL ASSY.	132001-04		4.25
GREASE LINES	200733-01	776 & UP	4.26
C-2 CONVEYOR	236455-01	1181 & UP	4.27
CHAIN & IDLER	223297-01		4.29
C2 CHAIN	223338-02		4.30
FOOTSHAFT & AUGER	230776-01	1181 & UP	4.31
HEADSHAFT & TAKE-UP	235544-01	1163 & UP	4.33
C-2 DRIVE GEARBOX	203739-01		4.35
C-2 DRIVE MOTOR	149224-04		4.37
LINER & BOTTOM PLATE	229755-01	1075 & UP	4.39
FLOWGATES	231060-01		4.40
C-3 CONVEYOR	223787-01	975 & UP	4.41
CHAIN & IDLER	223788-01		4.45
C3 CHAIN	223582-02		4.48
TOP COVER W/FUME	214493-01	820 & UP	4.49
C-3 DRIVE MOTOR	91681-04		4.51
INSULATION PANEL & TRUCK RAIL	214690-01	820 & UP	4.53

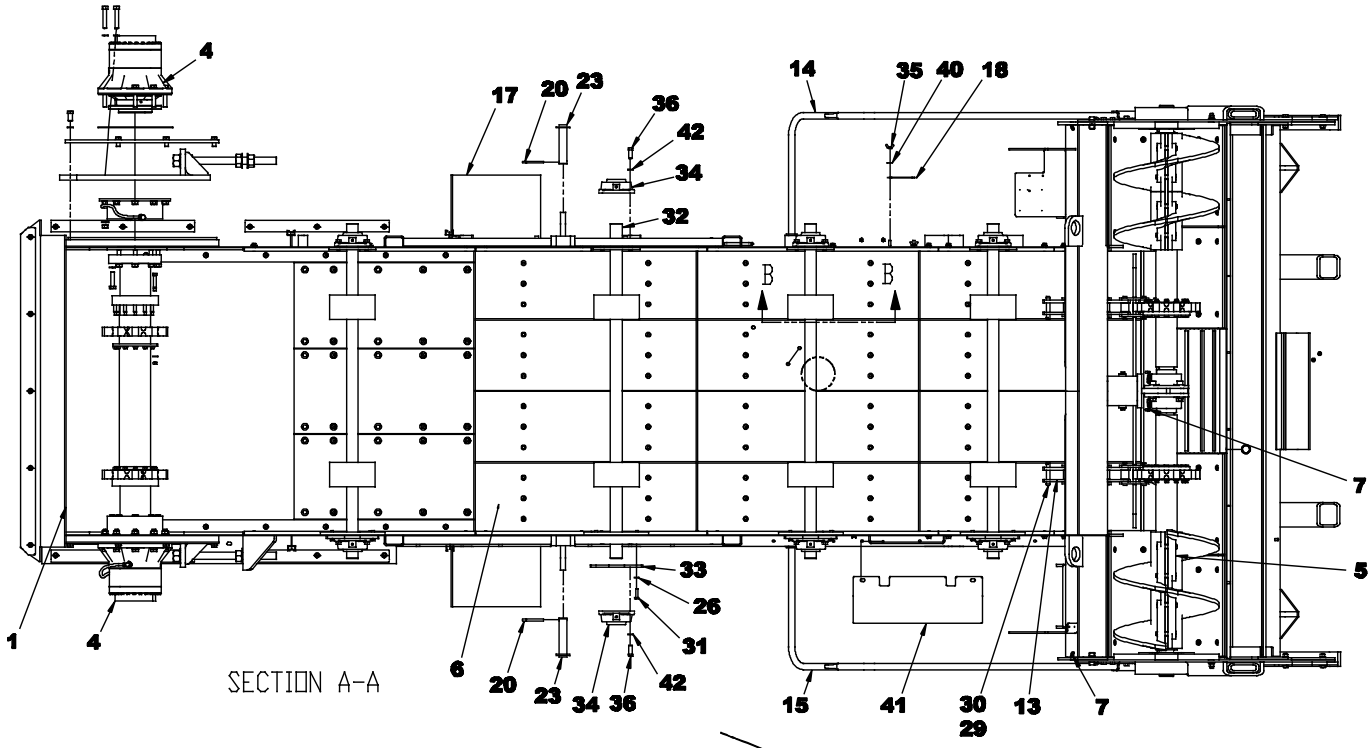
C-1 CONVEYOR ASSEMBLY
(236472-01)

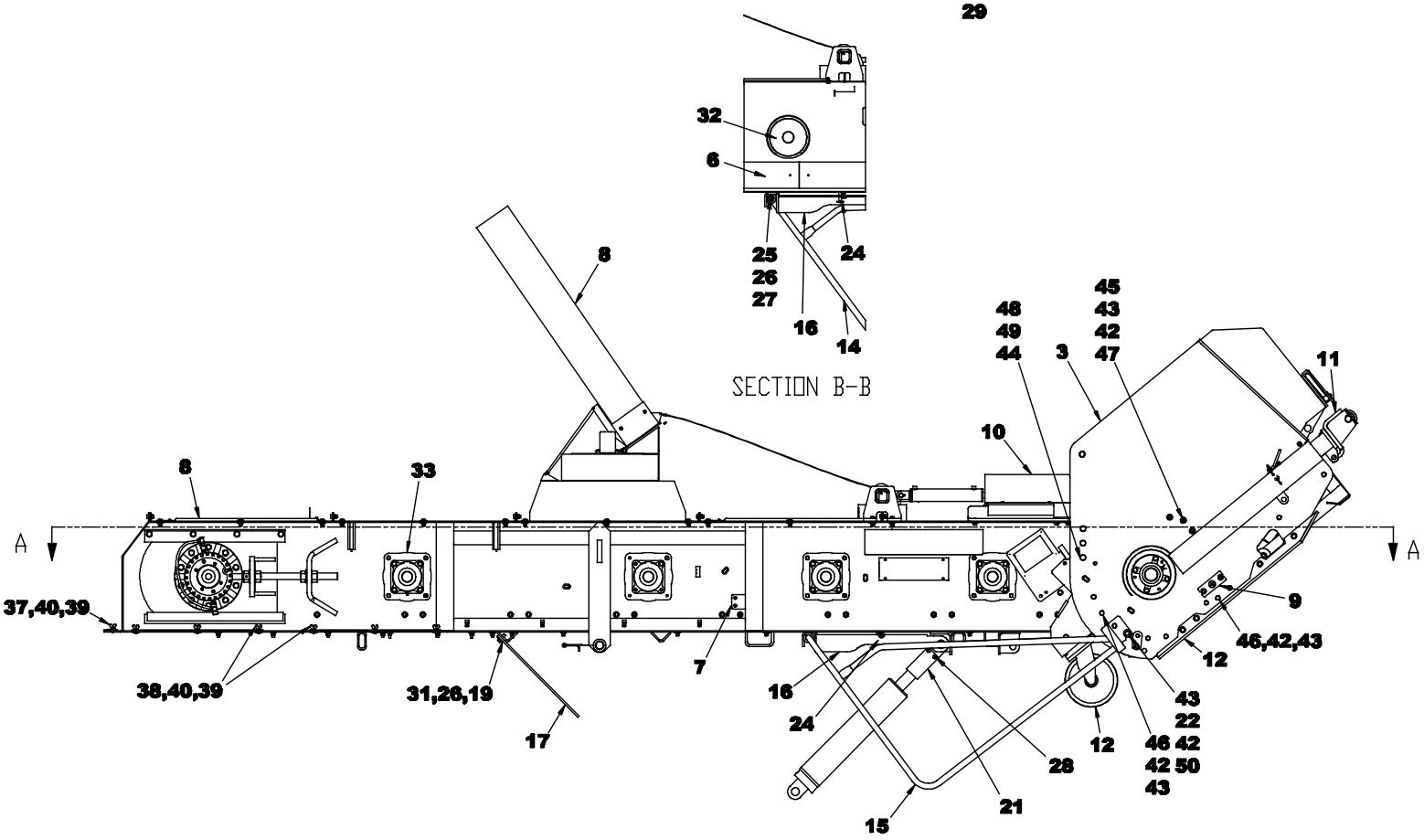
NEXT PAGE



PREVIOUS PAGE

C-1 CONVEYOR ASSEMBLY
(236472-01)





C-1 CONVEYOR ASSEMBLY
(236472-01)

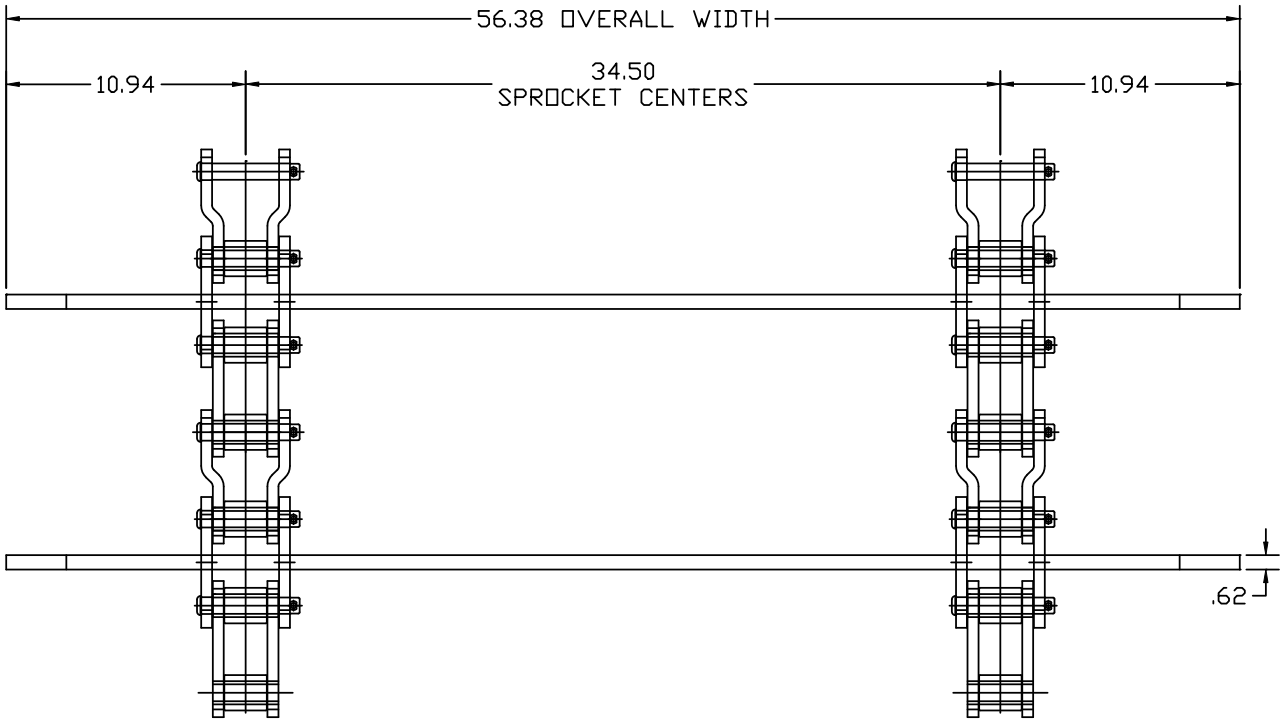
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	233734-01	WLDT-C1 CONVEYOR	1
2	216487-01	WELDMENT, LH C1 HOPPER ENDPLATE	1
3	216486-01	WELDMENT, RH C1 HOPPER ENDPLATE	1
4	235540-01	ASSEMBLY-C1 HEADSHAFT & TAKE-UP	1
5	230774-01	ASSY-C1 FOOT SHAFT & AUGER 2500D	1
6	226830-01	ASSY-C1 WEAR PLATE-SB-2500D	1
7	200733-01	ASSY-C1 GREASE LINES	1
8	214495-01	ASSY-TOP COVER & FXS	1
9	223153-01	ASSEMBLY-C1 DUMP HOPPER	1
10	221906-01	ASSY-C1 BAFFLE	1
11	212468-01	ASSEMBLY-PUSH ROLLER	1
12	148085-01	ASSEMBLY-C1 CASTER & SKID RUNNER	1
13	223580-02	ASSEMBLY - C1 CONV CHAIN	1
14	207690-01L	WELDMENT-C1 GUARD RAIL LH	1
15	207690-01R	WELDMENT-RH C1 GUARD RAIL	1
16	207691-01	WELDMENT - C1 LIFT CYLINDER PROP	2
17	207381-03	RUBBER - FLASHING	1
18	129384-03	DETAIL-C2 INSPECTION PLATE	1
19	99159-03	CLAMP BAR	1
20	27D87	PIN * COTTER 3/8" X 3 1/2"	2
21	200734-04	DETAIL-CYLINDER STOP	2
22	85147	WASHER * FLAT 5/8"(USS 1 3/4 OD)	2
23	99165-04	WLDT- PIVOT PIN	2
24	144993-04	PIN * 3/16" LYNCH	2
25	83754	BOLT * HEX 1/2"-13 X 1"	2
26	83317	WASHER * LOCK 1/2" SPRING STEEL	25
27	136743-04	SCREED FLATWASHER	2
28	128462	BOLT * CSK FLAT 1/2"-13 X 1"	4
29	138885-03-C2	KIT * KEEPER PIN 1 1/4" LONG	2
30	223575-03-C1	CONNECTING PIN FOR C1 & C2	2
31	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	23
32	145488-01	WELDMENT, C-1 IDLER SHAFT	4
33	99364-03	BEARING PLATE	4
34	88993-04	BEARING * 4 BOLT FLANGE	8
35	129097	NUT * WING 3/8-16	2
36	89143	BOLT * HEX 5/8"-11UNC X 1 3/4"	32
37	129238-03	DETAIL-CANVAS CLAMP BAR 67 1/2"	1
38	204707-03	DETAIL-CANVAS CLAMP BAR 30"	4
39	89987-04	BOLT * WING 3/8"-16 X 1" GD.8	17
40	83757	WASHER ~ FLAT 3/8 STEEL	19
41	201154-03	DETAIL-C1 CTRL MANIFOLD COVER	1
42	84717	WASHER ~ LOCK 5/8" SPRING STEEL	54
43	85148	NUT * 5/8"-11 HEX GRADE 8	22
44	93071	BOLT ~ HEX 3/4"-10 x 2" LG.	6
45	26F83	WASHER ~ FLAT 5/8 A325(1 5/16 OD)HW	6

C-1 CONVEYOR ASSEMBLY
(236472-01)

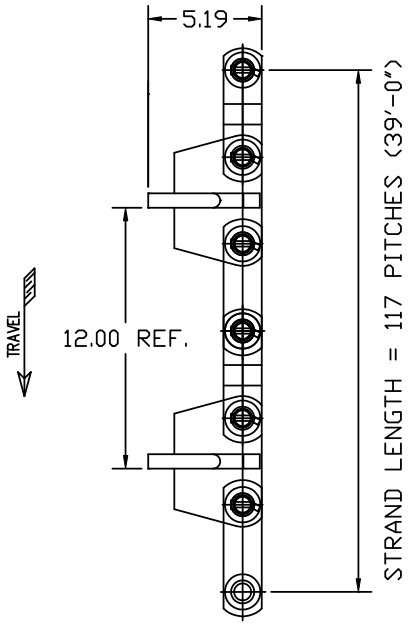
ITEM #	PART #	DESCRIPTION	Default/ QTY
46	96041	BOLT ~ HEX 5/8-11 x 2"	12
47	91223-04	BOLT * CSK 5/8"-11 X 1 3/4"	6
48	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	6
49	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	6
50	93122	BOLT * HEX 5/8"-11 X 2 1/4"	4

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			



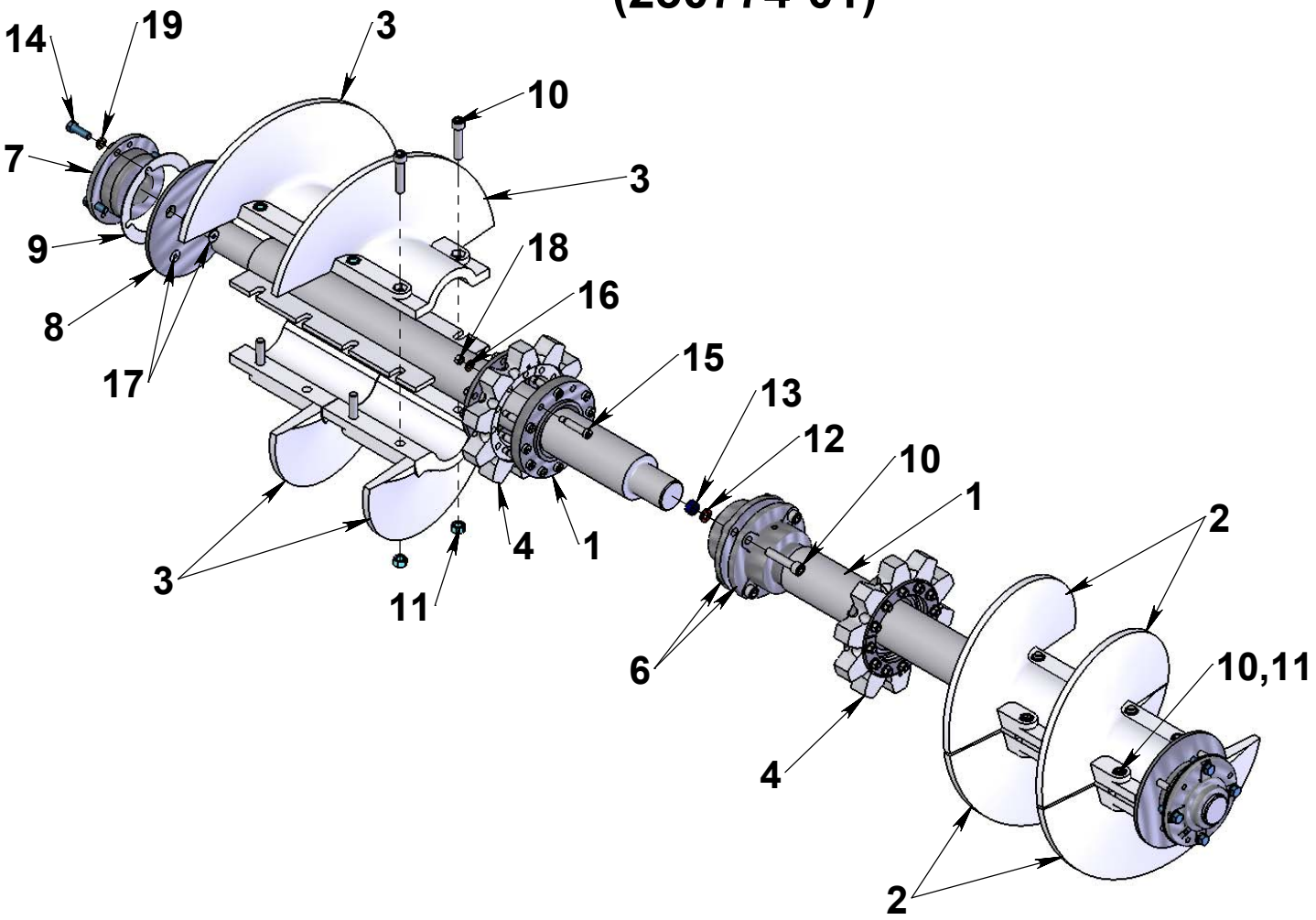
WELD SIZE TO BE
± 1/16"



FOR PLAIN CHAIN DIMENSIONS
AND SPECIFICATIONS SEE
DRAWING # C2846

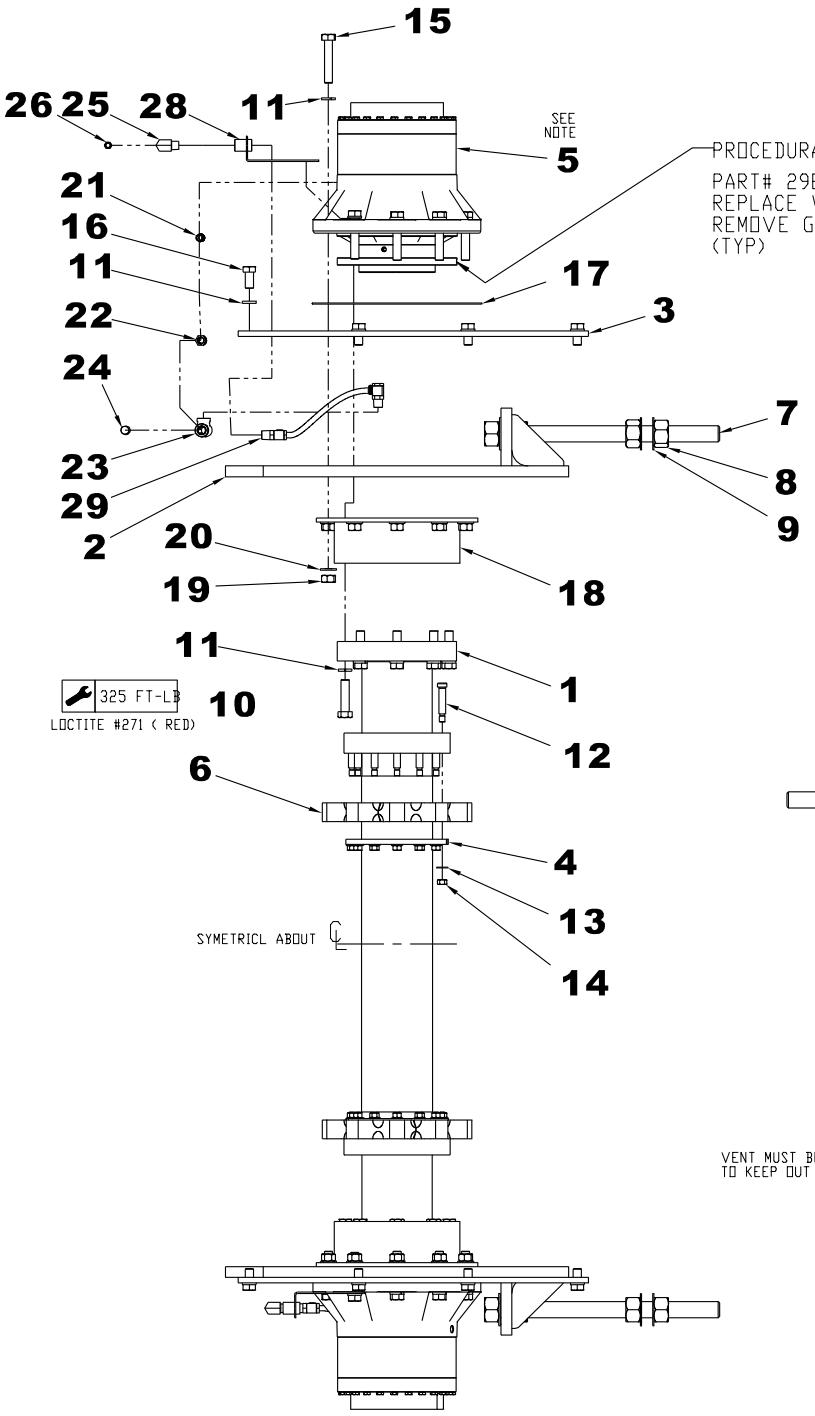
ULTIMATE STRENGTH	PART	MATERIAL	TREATMENT
84,000 LBS.	SIDEBARS	CARBON STEEL	HEAT-TREATED
WORKING LOAD	PIN	ALLOY STEEL	INDUCTION HARDEN
7,200 LBS.	BUSHING	ALLOY STEEL	CASE HARDEN
WEIGHT PER FOOT	ROLLER	ALLOY STEEL	CASE HARDEN
18.0 LBS.			
NO. LINKS IN 10 FEET			
30			

ASSY-C1 FOOT SHAFT & AUGER 2500D (230774-01)



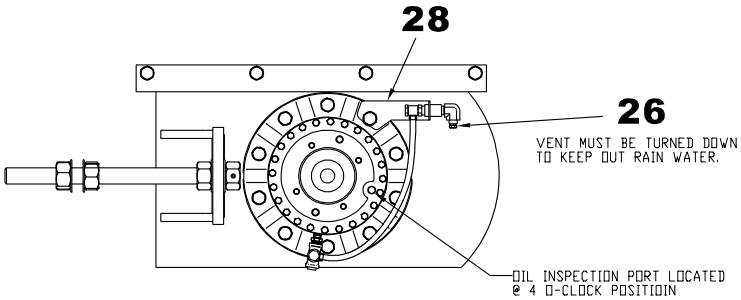
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	230784-01	WELDMENT-C1 FOOT SHAFT	2
2	230783-01	AUGER * 12" RH PITCH	4
3	230782-01	AUGER * 12" LH PITCH	4
4	233352-02	SPROCKET * C1&C2 FOR LRG ROLLER CHN	2
5	223784-04	DETAIL-SPROCKET COVER PLATE	4
6	29M98	BEARING, FLANGED 3" 4-BOLT	2
7	122266-04	BEARING, ROLLER 3" DIA.	2
8	212485-03	DETAIL-COVER PLATE	2
9	222826-03	DETAIL-OUTER BEARING SPACER	2
10	141568	SCREW * 3/4-10"X 3 1/2"LG.SOC.HD	20
11	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	16
12	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	4
13	84071-04	NUT * 3/4"-10 ASTM HEX 563 A GR.8	4
14	96041	BOLT ~ HEX 5/8-11 x 2"	8
15	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
16	10D63	WASHER ~ 1/2" HARD A325	24
17	91223-04	BOLT * CSK 5/8"-11 X 1 3/4"	8
18	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
19	84717	WASHER ~ LOCK 5/8" SPRING STEEL	8

C-1 HEADSHAFT & TAKE-UP ASSY.
(235540-01)

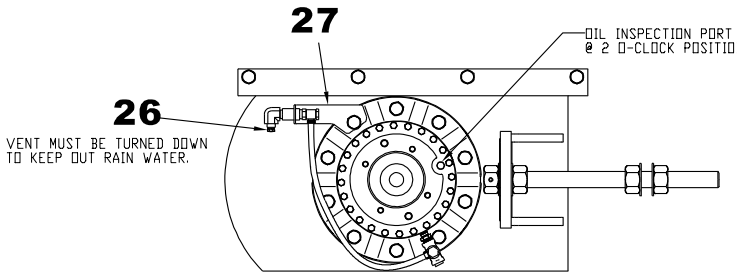


PROCEDURAL NOTE :

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



LEFT SIDE OF MACHINE

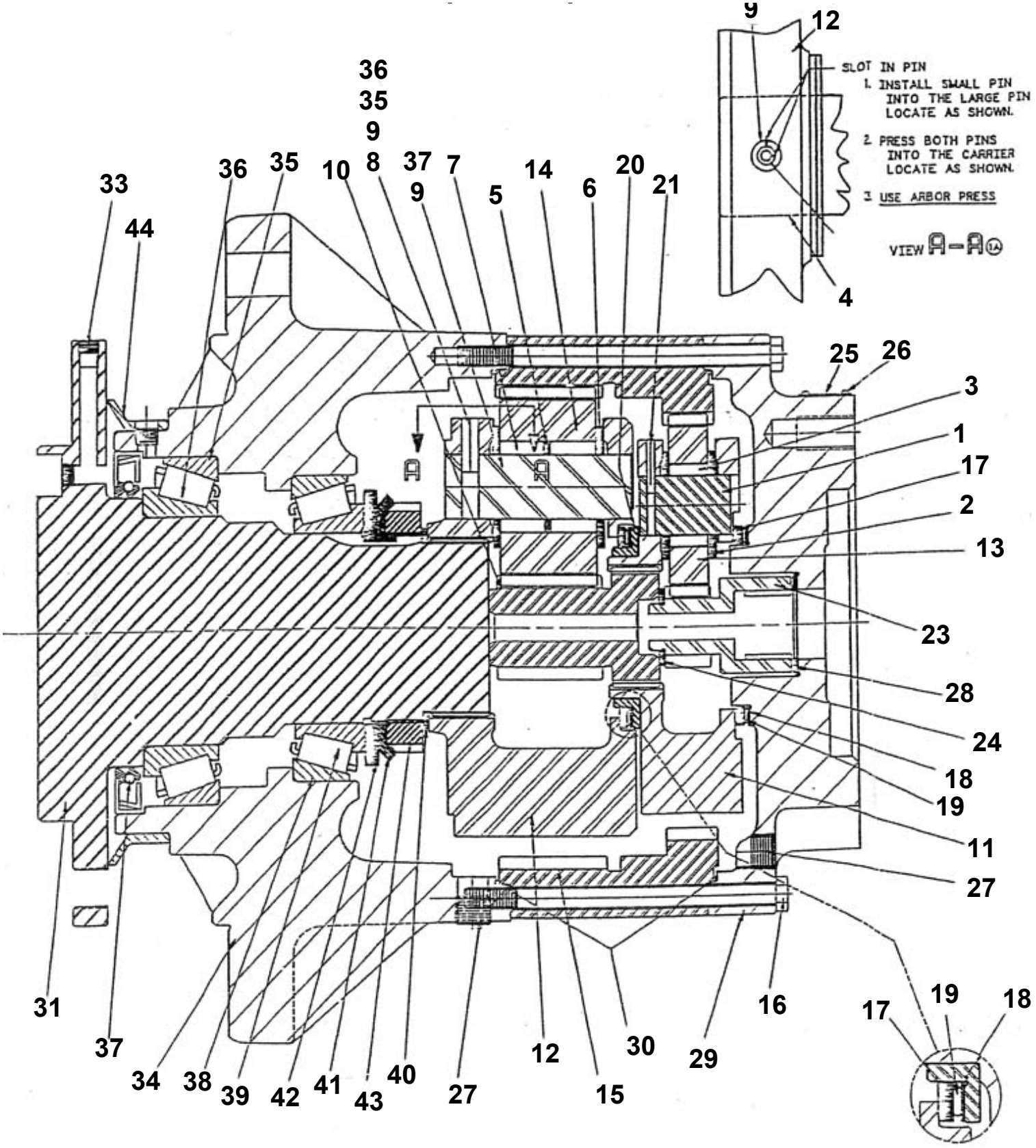


RIGHT SIDE OF MACHINE

C-1 HEADSHAFT & TAKE-UP ASSY.
(235540-01)

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	233352-02	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	80166	NIPPLE - CLOSE 3/8" NPT	2
22	85567-04	BUSHING - RED. 1/2" NPT X 3/8" NPT	2
23	91837-04	PLUMB - RUN TEE 1/2" NPT FEMALE	2
24	219401-04	HOLLOW HEX PLUG 1/2" NPT	2
25	93112	FIT - 1/2" NPT M - 1/4" NPT F 90 DEG.	2
26	89577-04	FIT - VENT CAP 1/4" NPT	2
27	235657-03	WLDMT - C1 SIGHT GLASS BRACKET, RT	1
28	235658-03	WLDMT - C1 SIGHT GLASS BRACKET, LT	1
29	235665-04	MOD - GAUGE GEARBOX LEVEL	2
30			

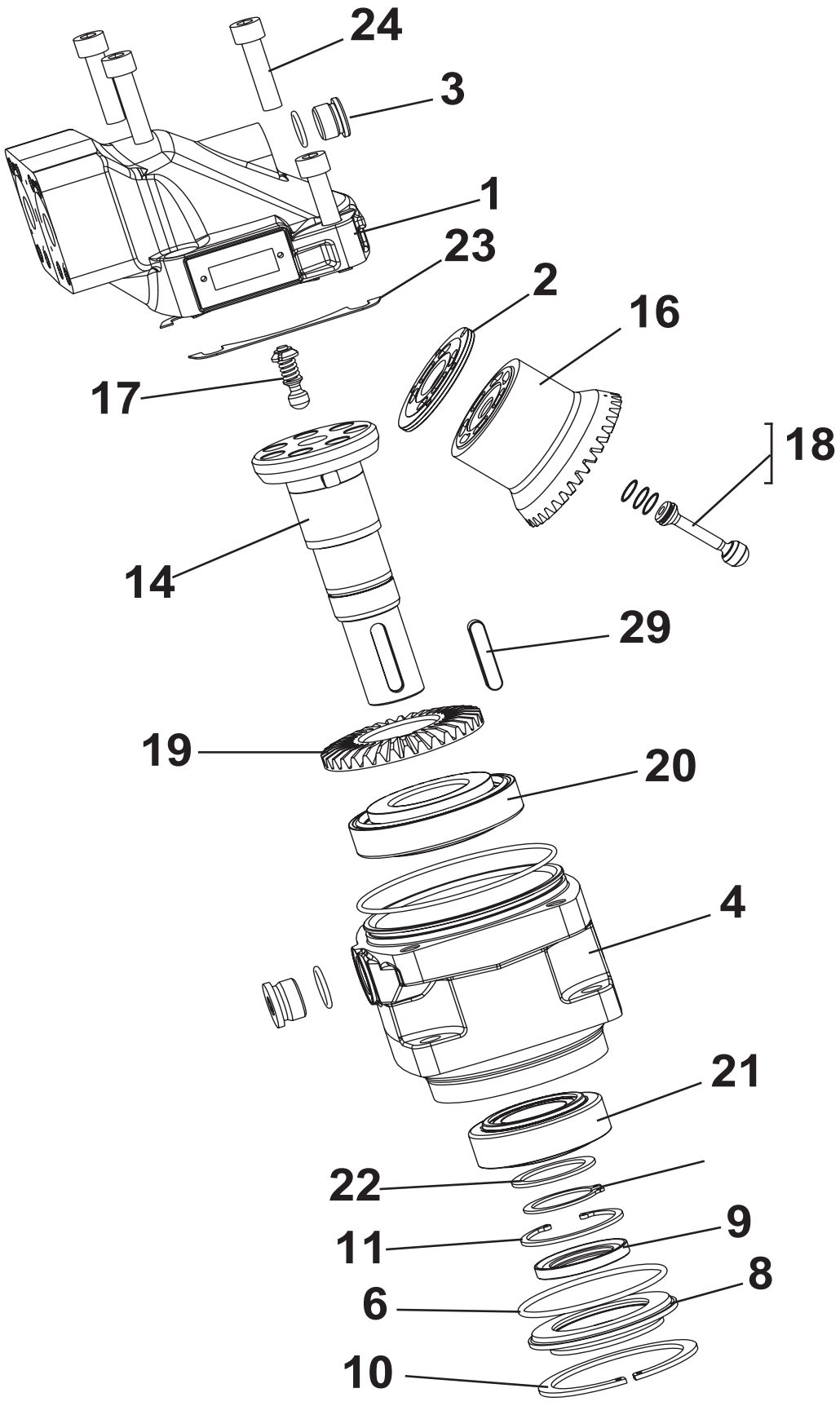
C-1 & C-3 DRIVE GEARBOX
(29E38)



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

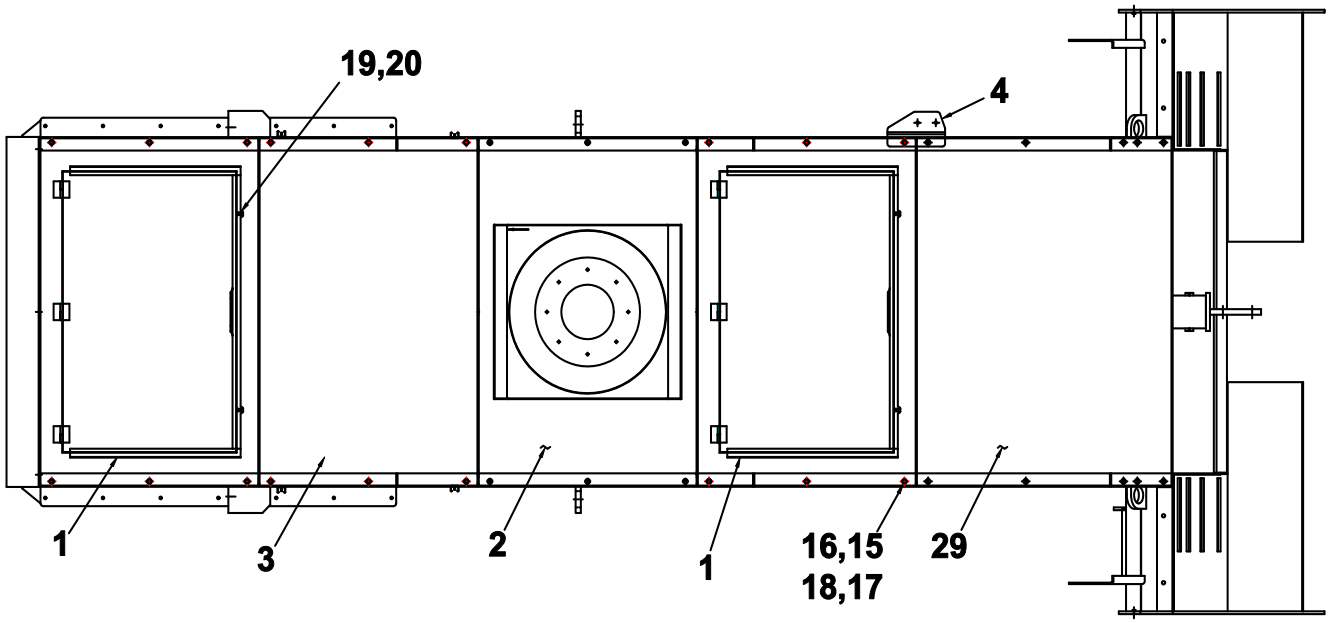
C-1 CONVEYOR DRIVE MOTOR
(142642-04) With two tappered roller bearings

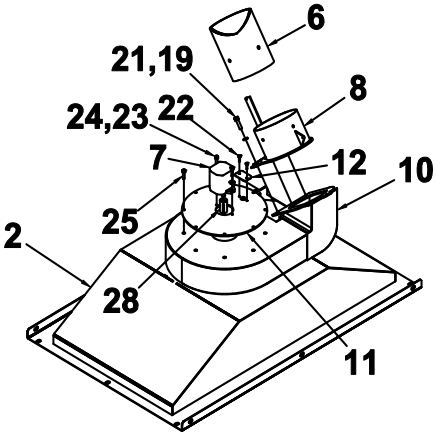


C-1 CONVEYOR DRIVE MOTOR
(142642-04)

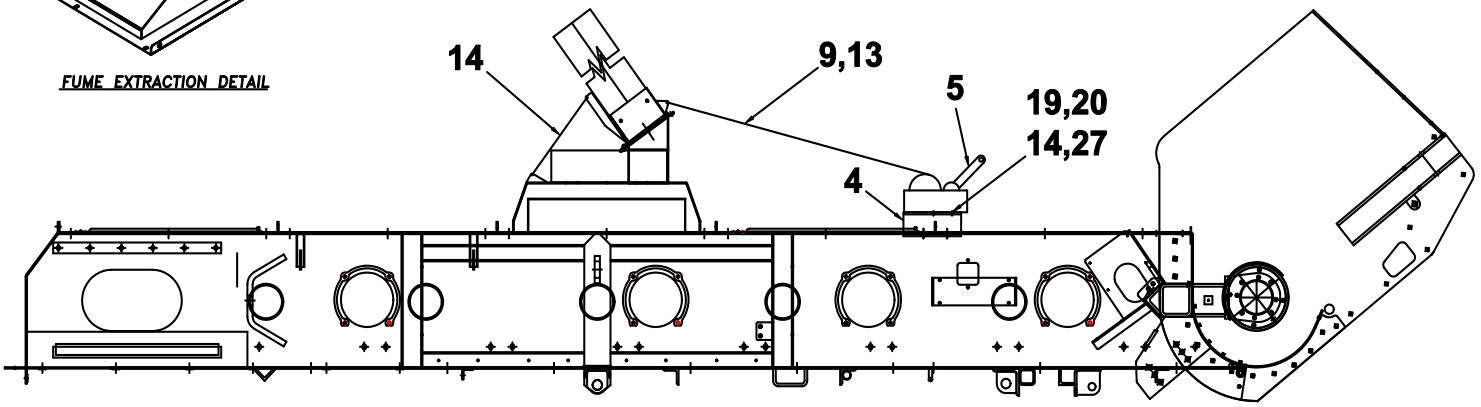
ITEM #	PART NO.	DESCRIPTION	QTY.
1	142642-04-C8	BARREL HOUSING	1
2	142642-04-C9	VALVE PLATE	1
3	142642-04-C10	HEX SOCKET PLUG	1
4	142642-04-C11	BEARING HOUSING	1
5	142642-04-C12	O-RING	1
6	142642-04-C13	O-RING	1
7	142642-04-C14	O-RING	1
8	142642-04-C15	SEAL CARRIER	1
9	142642-04-C16	SHAFT SEAL	1
10	142642-04-C17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





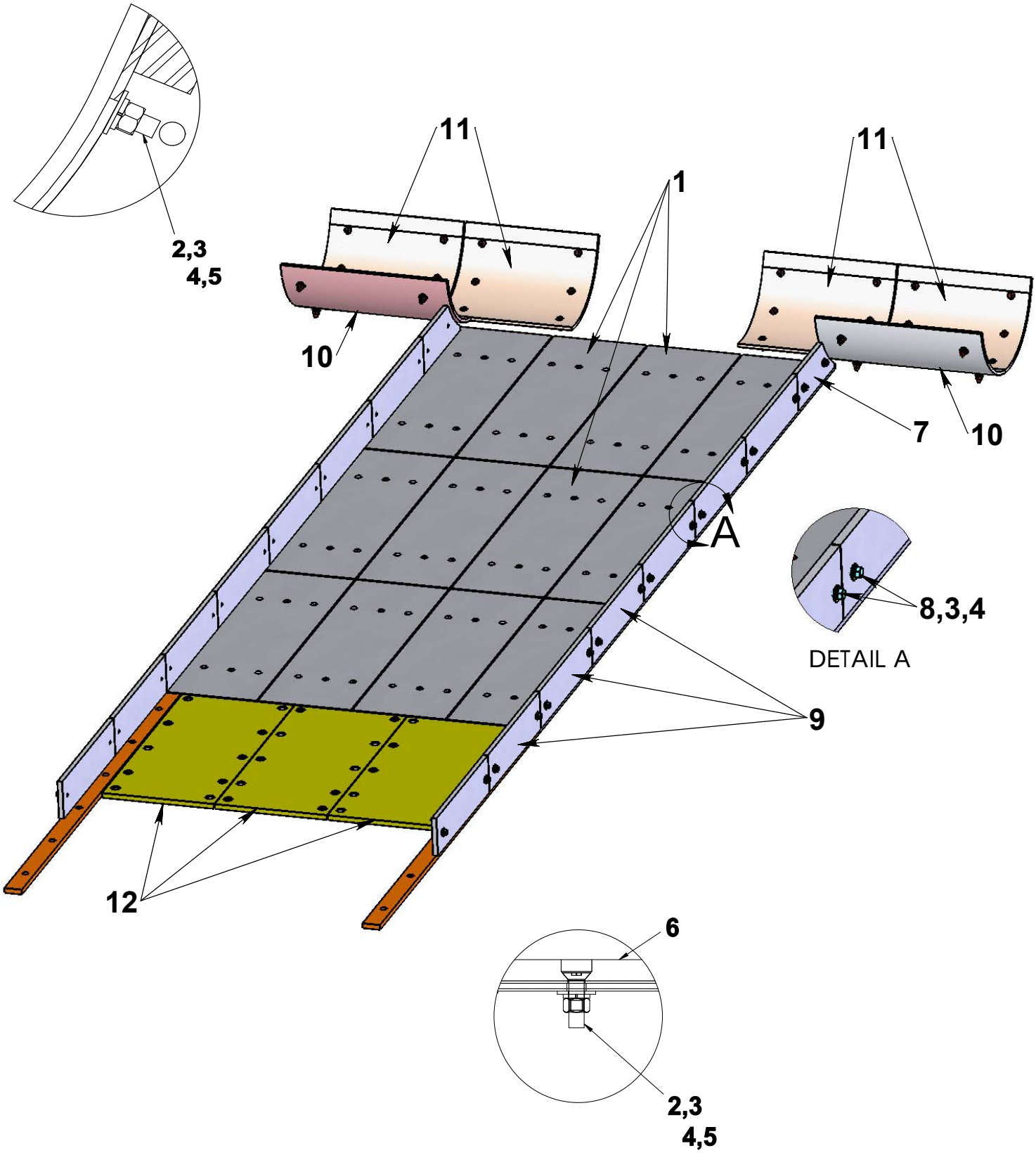
FUME EXTRACTION DETAIL



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

ITEM #	PART NO.	DESCRIPTION	QTY.
1	214648-01	TOP COVER PLATE WELDMENT	2
2	214649-01	TOP COVER FXS WELDMENT	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	C-1 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 GR8	29
19	83056	LOCK WASHER, 3/8	12
20	83055	HEX NUT, 3/8 - 16 GR8	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

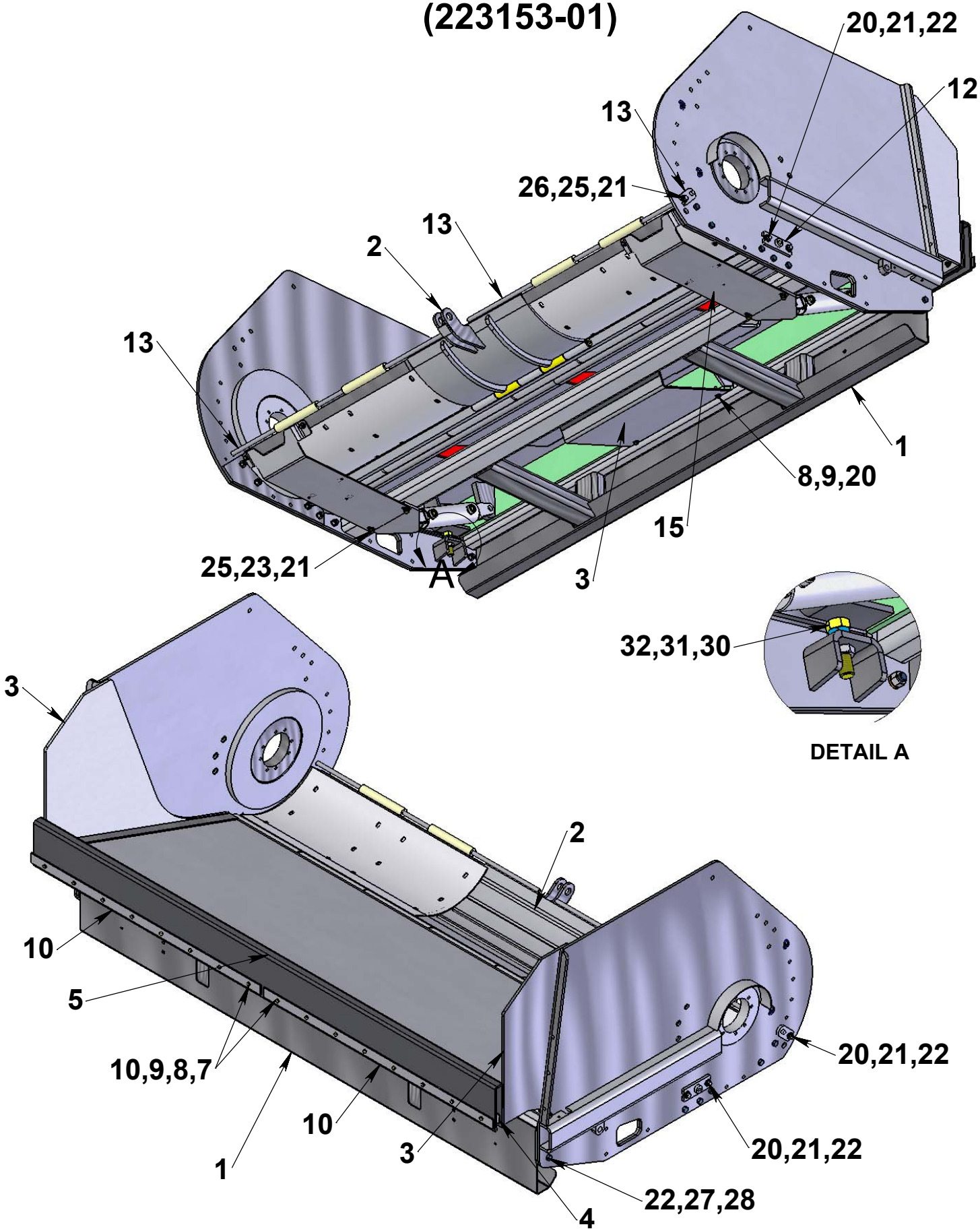
ASSY-C1 WEAR PLATE-SB-2500D
(226830-01)



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

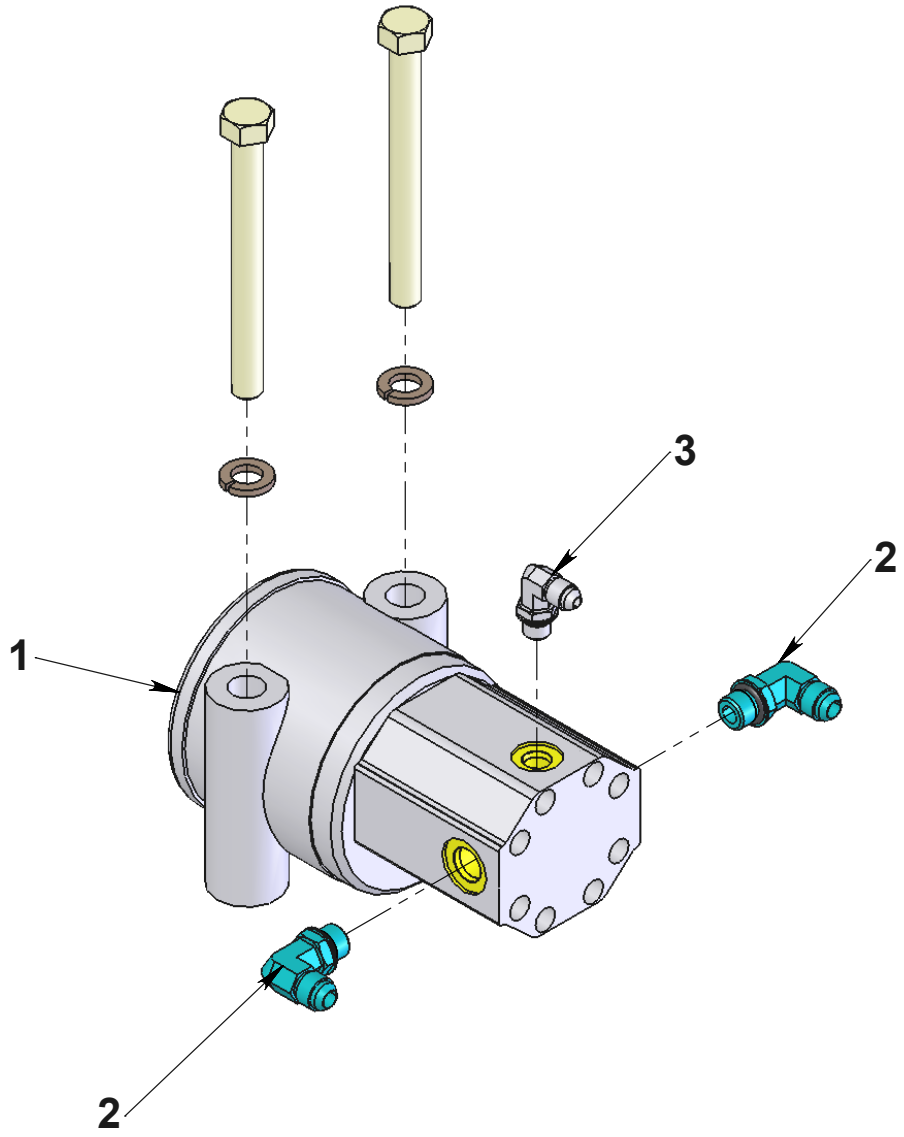
ASSEMBLY - C1 DUMP HOPPER
(223153-01)



ASSEMBLY - C1 DUMP HOPPER
(223153-01)

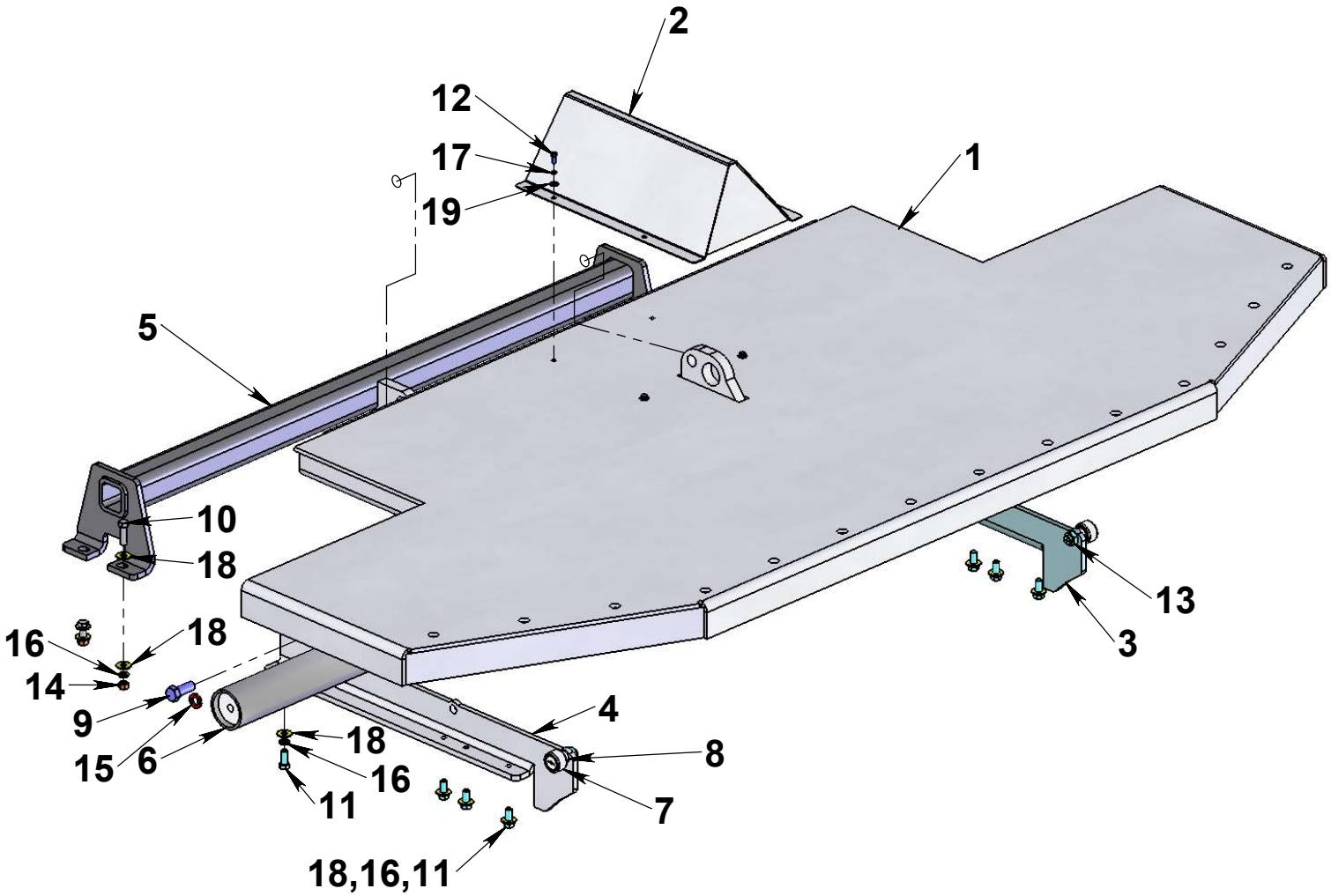
ITEM #	PART #	DESCRIPTION	QTY
1	223151-01	WELDMENT - C1 HOPPER UNDERCARRIAGE	1
2	207708-01	WELDMENT, C-1 CLEANOUT DOOR	1
3	223152-01	WELDMENT-DUMP HOPPER	1
4	143620-03	FLASHNG.SUPPORT WLD.(C1 DUMP HOPPR)	2
5	99218-02	RUBBER FLASHING	1
6	121809	BOLT * HEX 3/8"-16 X 3 1/2"	16
7	83757	WASHER ~ FLAT 3/8 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)



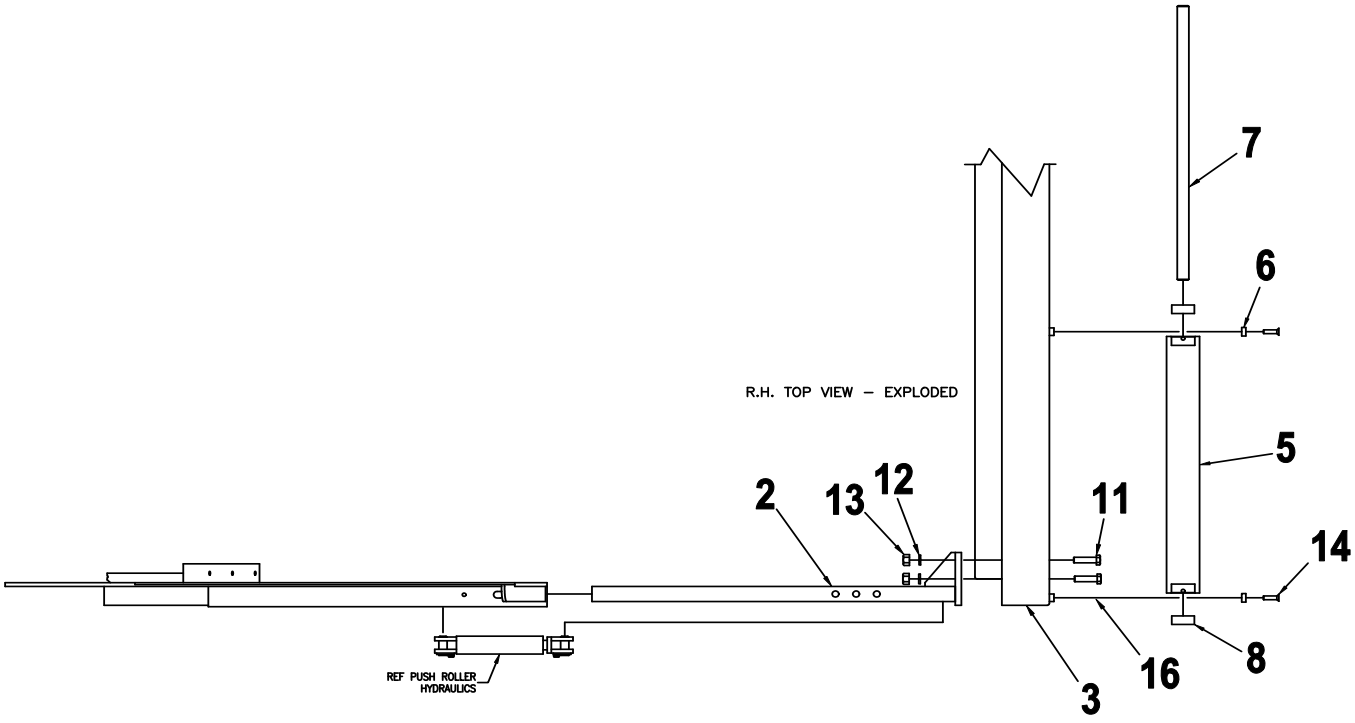
ITEM #	PART #	DESCRIPTION	QTY
1	149125-04	HYD.DRIVEN VIBRATOR 782 LB 9000 RPM	1
2	83734-04	FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE	2
3	83743-04	ELBOW 90 DEG M W_NUT, WASHER, O-RING 4 JIC - 4 SAE	1

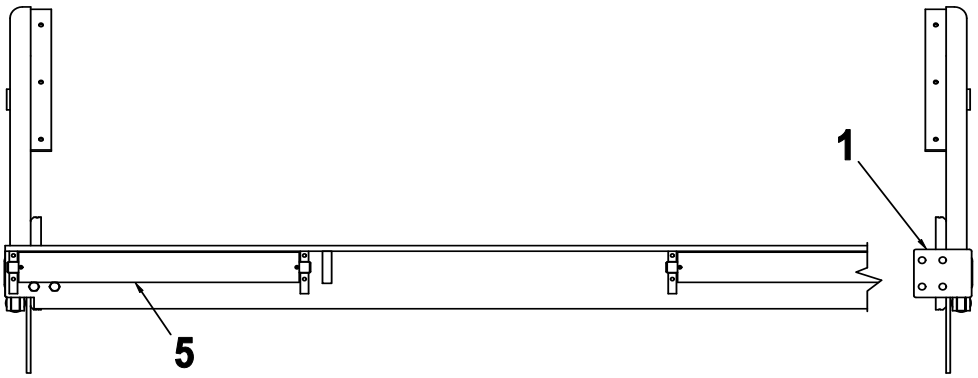
ASSY-C1 BAFFLE
(221906-01)

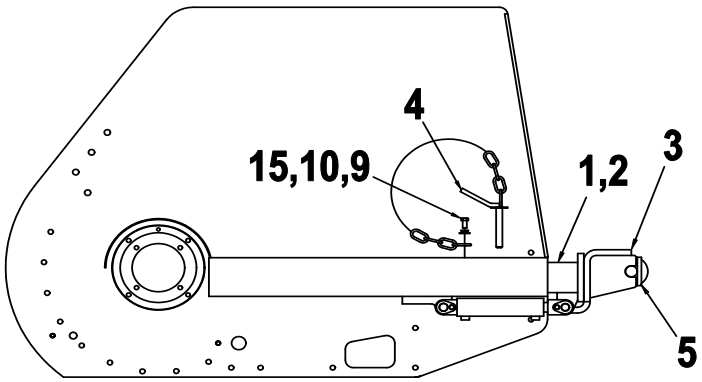


ITEM #	PART #	DESCRIPTION	Default/ QTY
1	221899-01	WELDMENT-BAFFLE-SB-2500D	1
2	141583-01	WELDMENT, HYDRAULIC CYLINDER COVER	1
3	210188-03	DETAIL-LH BAFFLE GUIDE-SB-2500C	1
4	210189-03	DETAIL-RH BAFFLE GUIDE-SB-2500C	1
5	210182-01	WLDT-BAFFLE CYLINDER SUPPORT-2500C	1
6	210540-03	WELDMENT-C1 SIDEWALL 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)



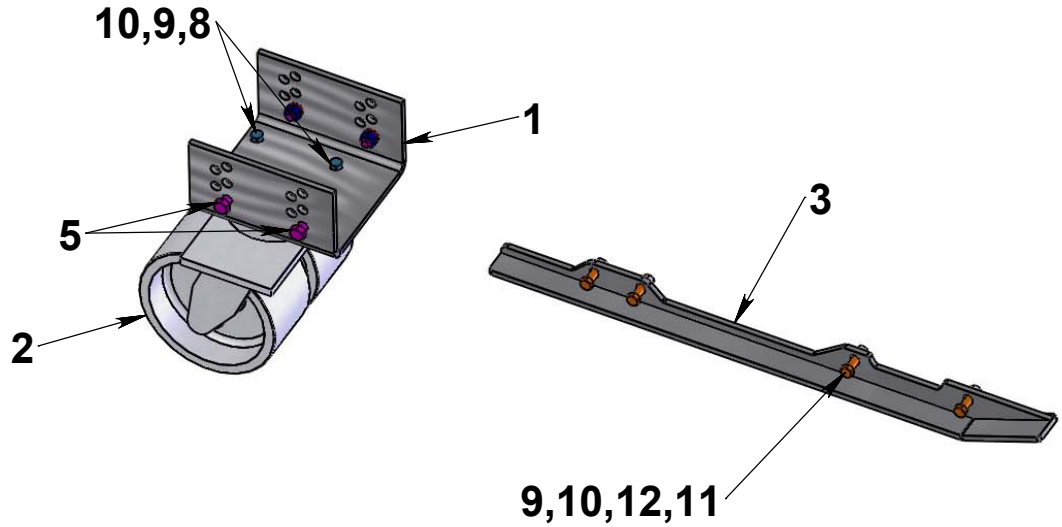


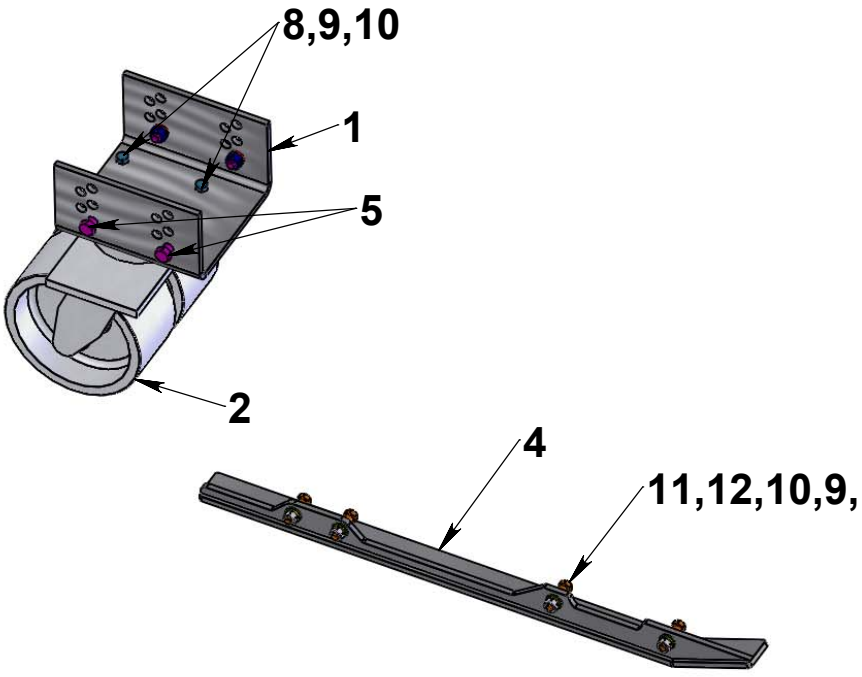


HYDRAULIC PUSH ROLLER ASSEMBLY (212468-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	212467-01L	L.H. PUSH ROLLER SUPPORT	1
2	212467-01R	R.H. PUSH ROLLER SUPPORT	1
3	204743-01	RUSH 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	LOCK WASHER 1/2" SPRING STEEL	2
11	95930	BOLT, HEX 3/4-10 X 2 3/4"	8
12	83752-04	LOCK WASHER 3/4"	8
13	84071-04	NUT, HEX 3/4-10 X 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)



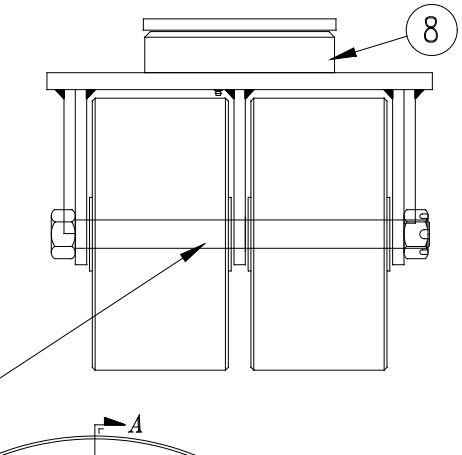


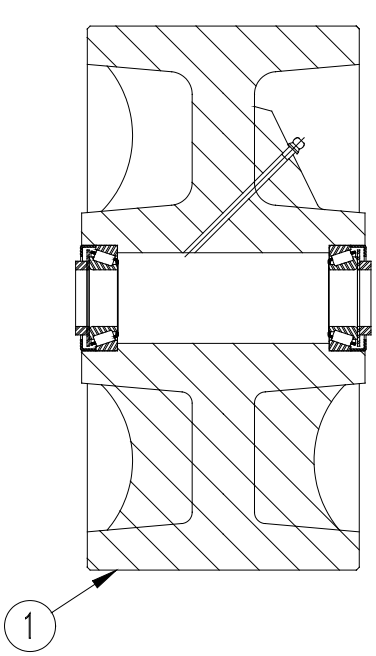
SUB-ASSY-C1 CASTER & SKID RUNNER (148085-01)

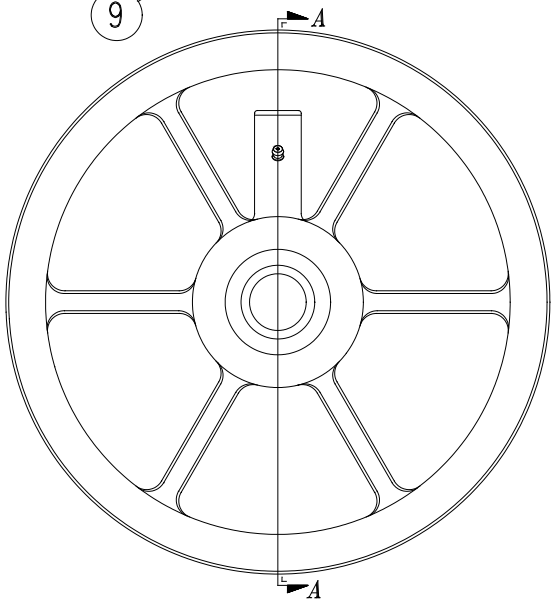
ITEM #	PART #	DESCRIPTION	QTY
1	142499-02	ADJUSTABLE CASTER MOUNTING PLATE	2
2	132001-04	CASTER * SWIVEL W/CAST IRON WHEELS	2
3	148096-01L	WELDMENT-LH SKID RUNNER-1500B	1
4	148096-01R	WELDMENT-RH SKID RUNNER-1500B	1
5	93189	BOLT * HEX 3/4"-10 X 2 1/4"	8
6	83752-04	WASHER ~ LOCK 3/4" SPRING STEEL	8
7	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

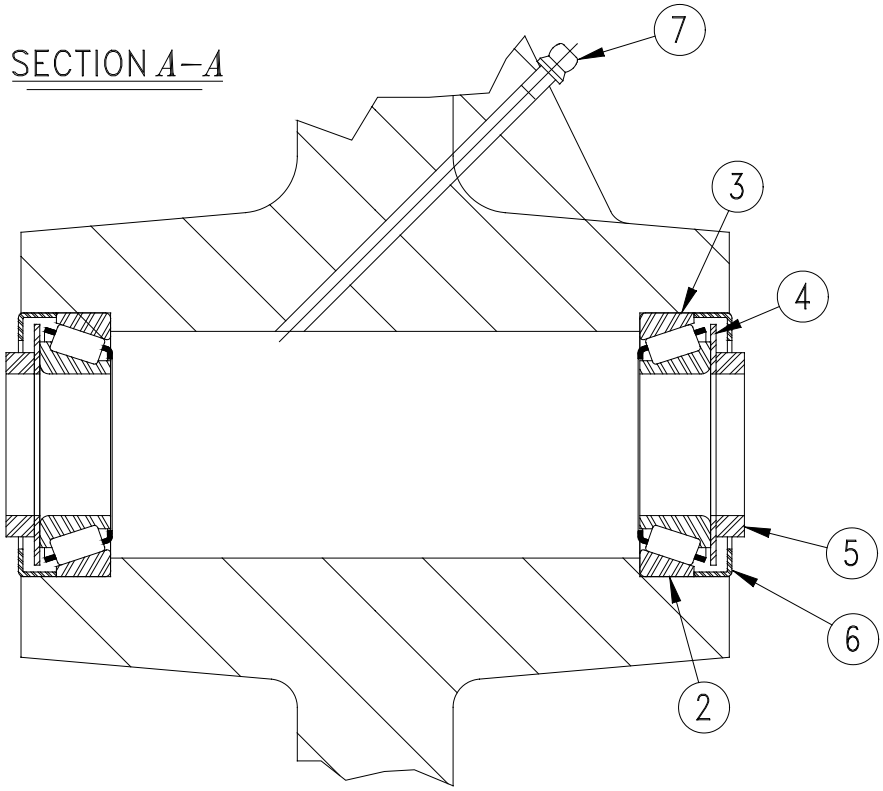
ITEM	QTY	PART #	DESCRIPTION
1	1	132001-04-C7	WHEEL ASSEMBLY
2	2	132001-04-C3	BEARING-TIMKEN CONE-LM67048 1-1/4 ID x 2-2
3	2	132001-04-C2	BEARING-TIMKEN CUP-LM67010 1-1/4 ID x 2-2
4	2	132001-04-C4	53-LM67048 FLINGER WASHER
5	2	132001-04-C5	SPACER 1-1/4 x 1-15/8 x 1/4 LG.
6	2	132001-04-C6	16-LM67048 1-1/4 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



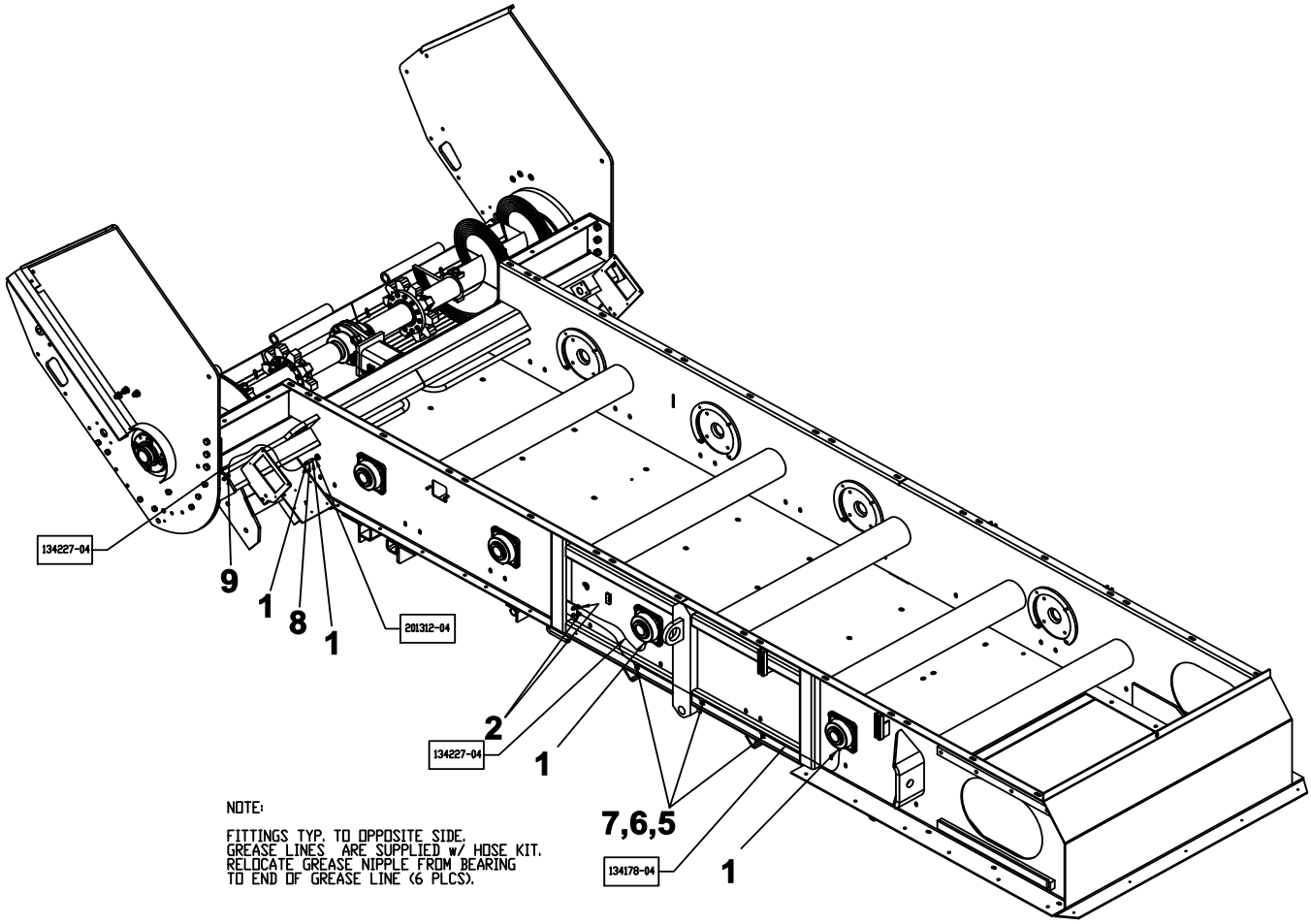


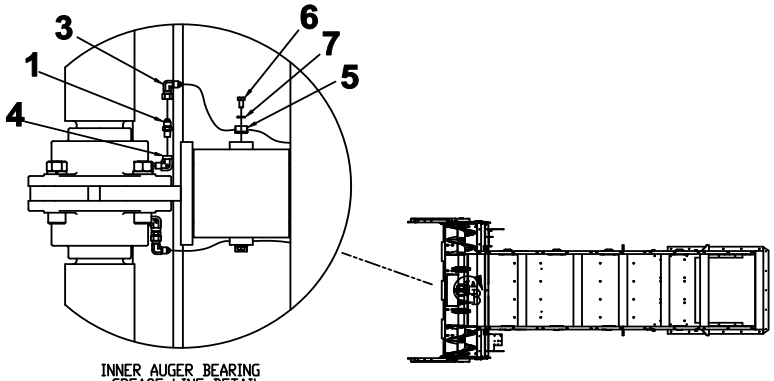


SECTION *A-A*



C-1 GREASELINE ASSEMBLY
(200733-01)

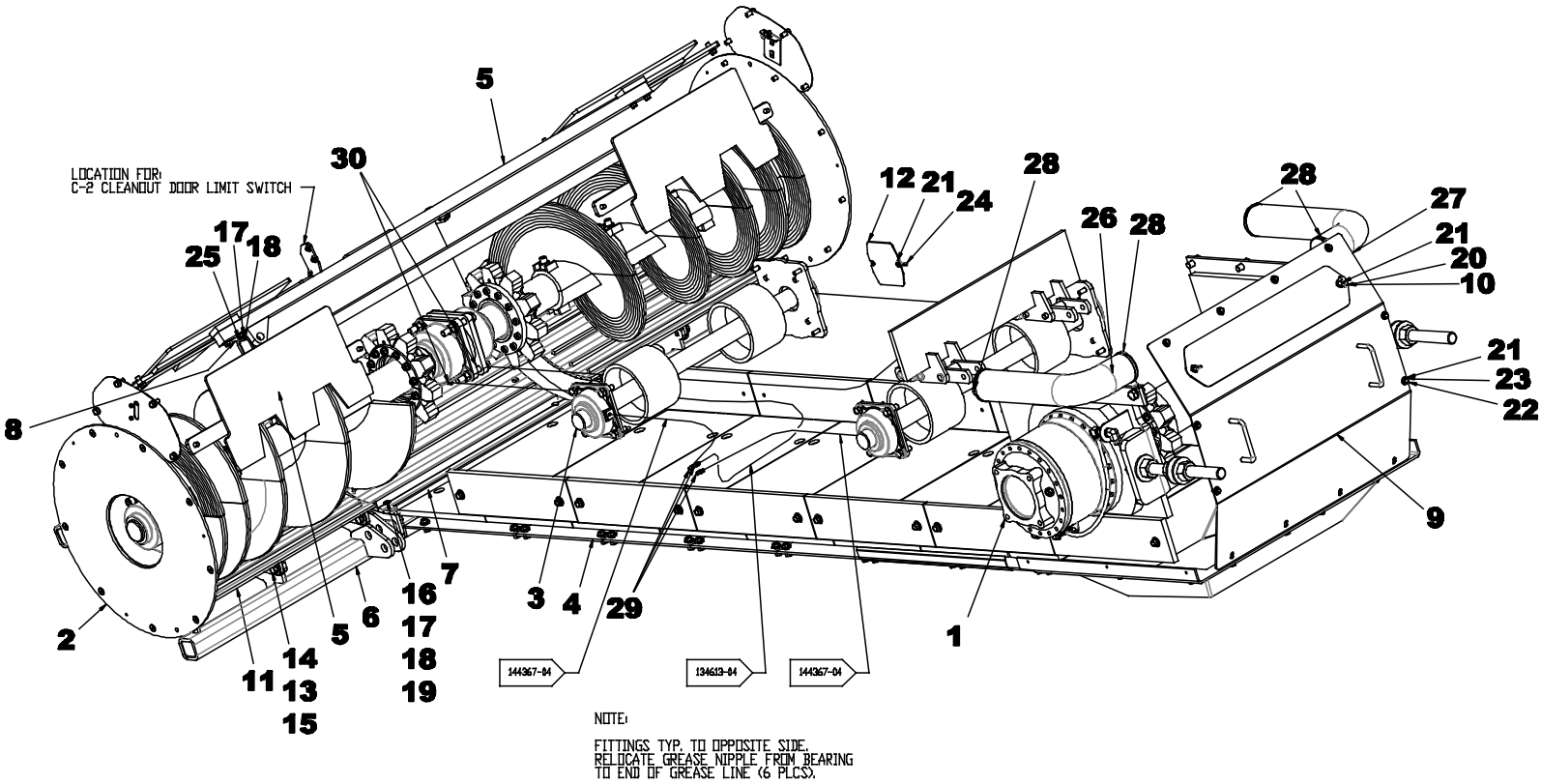


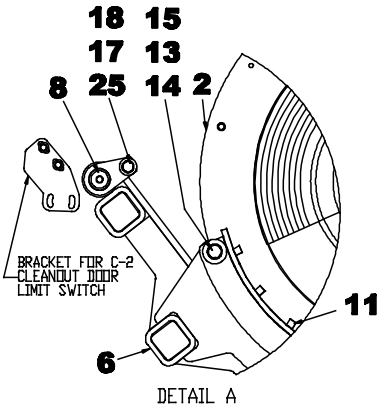


INNER AUGER BEARING
GREASE LINE DETAIL
DETAIL B

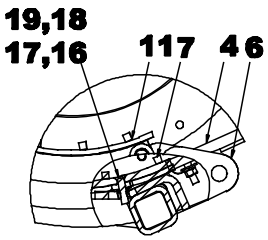
ITEM #	PART NO.	DESCRIPTION	QTY.
1	83742-04	FIT - CONNECTOR 4 JIC - 1/8" NPT M.	10
2	84560-04	FIT - ELBOW 4 JIC - 1/8" NPT 90° MALE	4
3	93043	FIT - ELBOW 4 JIC SWIVEL 90°	2
4	23J52	FIT - ELBOW 1/8" NPT M X 1/8" NPTF 90°	2
5	20K33	CLAMP - 3/8" DIA. X 1/2" WTH. X 1/4	9
6	83114	BOLT - HEX 1/4" - 20 X 1/2"	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
(236455-01)





DETAIL A

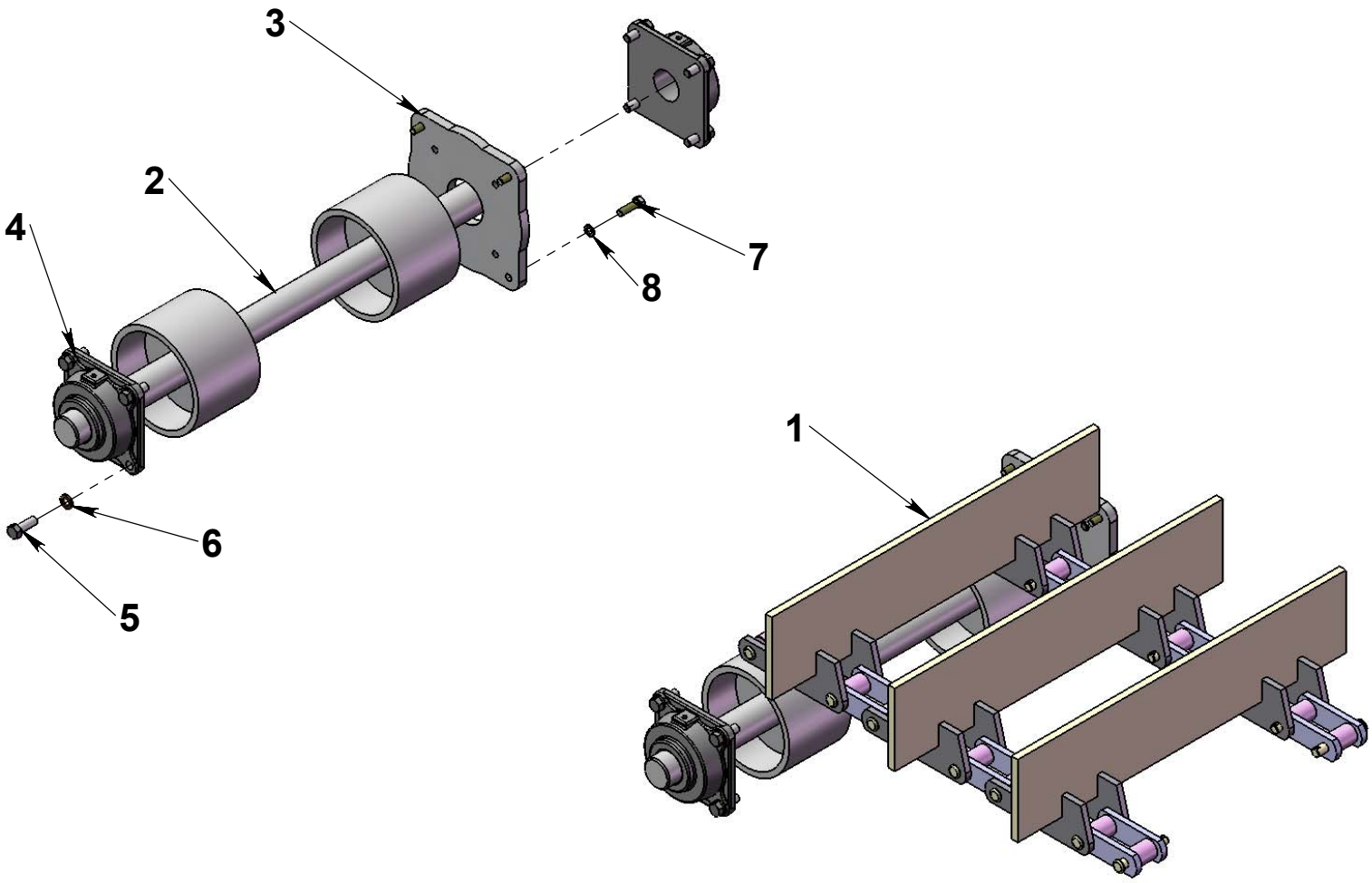


DETAIL B

C-2 CONVEYOR ASSEMBLY
(236455-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	23544-01	ASSEMBLY - C2 HEADSHAFT & TAKE-UP	1
2	235545-01	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	222949-01	WELDMENT - C2 CLEAN OUT DOOR	1
7	222950-02	WELDMENT - C2 CLEAN OUT DOOR LINER	1
8	223468-03	WELDMENT - C2 CLEAN OUT DOOR PIN	2
9	223234-02	WELDMENT - C2 CHAIN ACCESS DOOR	1
10	223252-03	DETAIL - C2 WASH DOWN PANEL	1
11	209884-02	WELDMENT - C2 DOOR LINER WELDMENT EXTENDED	2
12	129384-03	DETAIL - C2 INSPECTION PLATE	1
13	84717	WASHER - LOCK 5/8" SPRING STEEL	18
14	84778	HEX BOLT - 5/8 - 11 X 1 1/2 LG	18
15	85147	WASHER - FLAT 5/8" (USS 1 3/4 OD)	18
16	95847	CSK BOLT - 1/2-13 X 2"	6
17	83317	WASHER - LOCK 1/2" SPRING STEEL GR8	8
18	83781-04	WASHER - FLAT 1/2" STEEL	8
19	83288	NUT - 1/2" - 13 HEX GR8	6
20	89987-04	BOLT - WING 3/8" - 16 X 1" GR8	2
21	83757	WASHER - FLAT 3/8 STEEL	12
22	84332	BOLT - HEX 3/8" - 16 X 1"	8
23	83056	WASHER - LOCK 3/8 SPRING STEEL	8
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

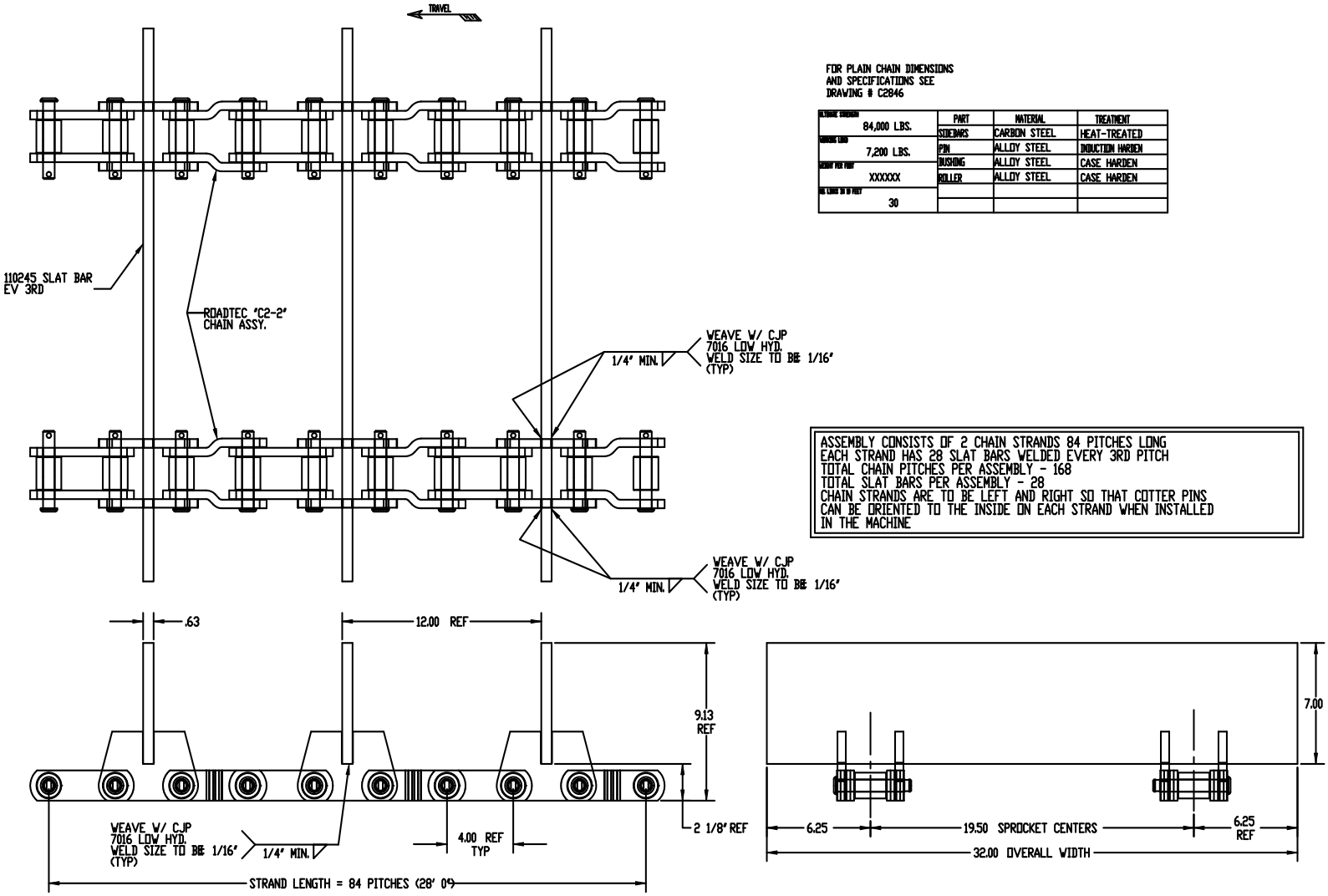
ASSEMBLY-C2 CHAIN & IDLER
(223297-01)



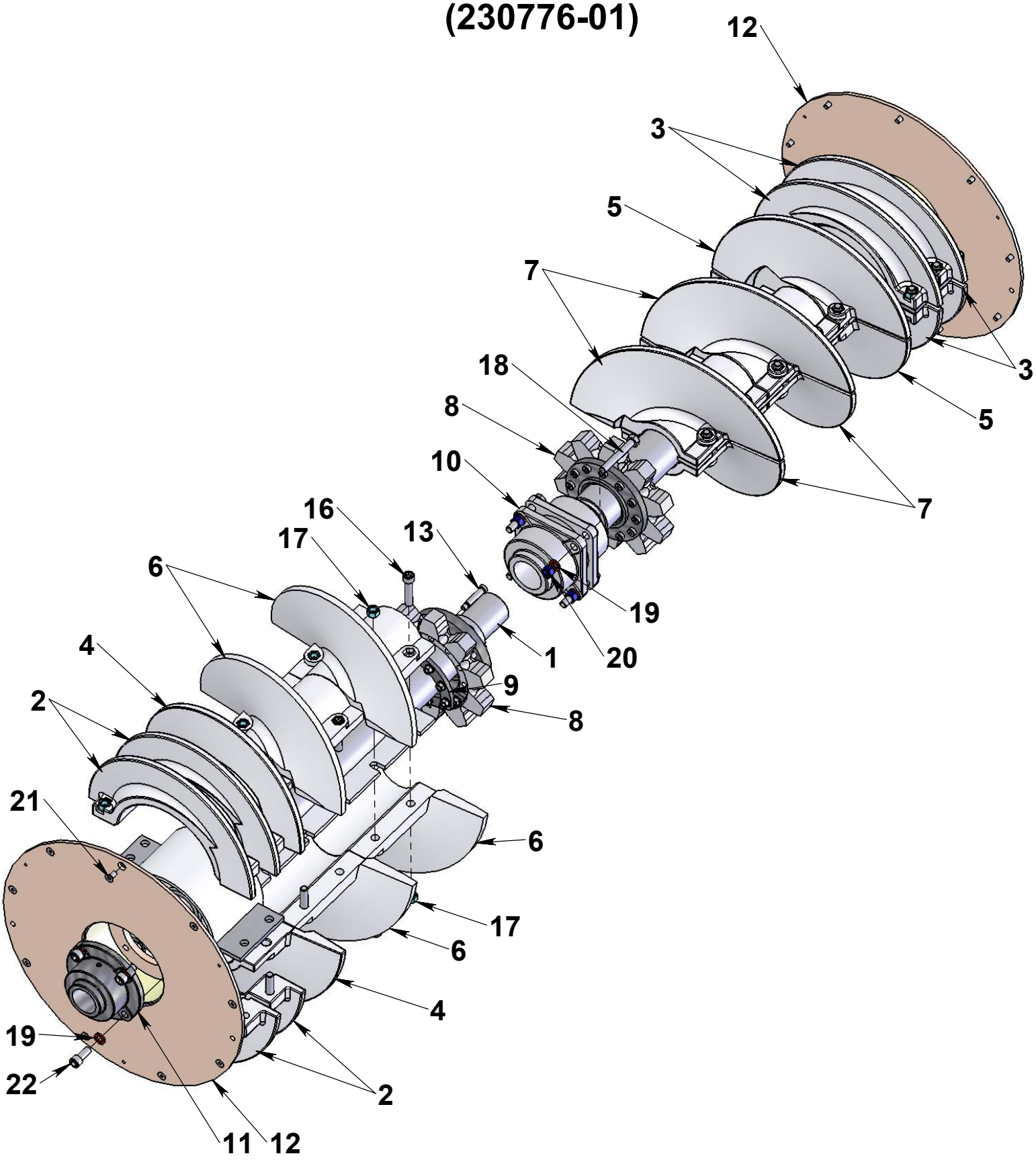
ITEM #	PART #	DESCRIPTION	QTY
1	223338-02	ASSEMBLY-C2 CONVEYOR CHAIN - 2500D	1
2	223418-01	WELDMENT-C2 IDLER SHAFT	2
3	99364-03	BEARING PLATE	2
4	88993-04	BEARING * 4 BOLT FLANGE	4
5	89143	BOLT * HEX 5/8-11 UNC X 1 3/4" LG.	16
6	84717	WASHER ~ LOCK 5/8" SPRING STEEL	16
7	89142	BOLT ~ HEX 1/2"-13UNC x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



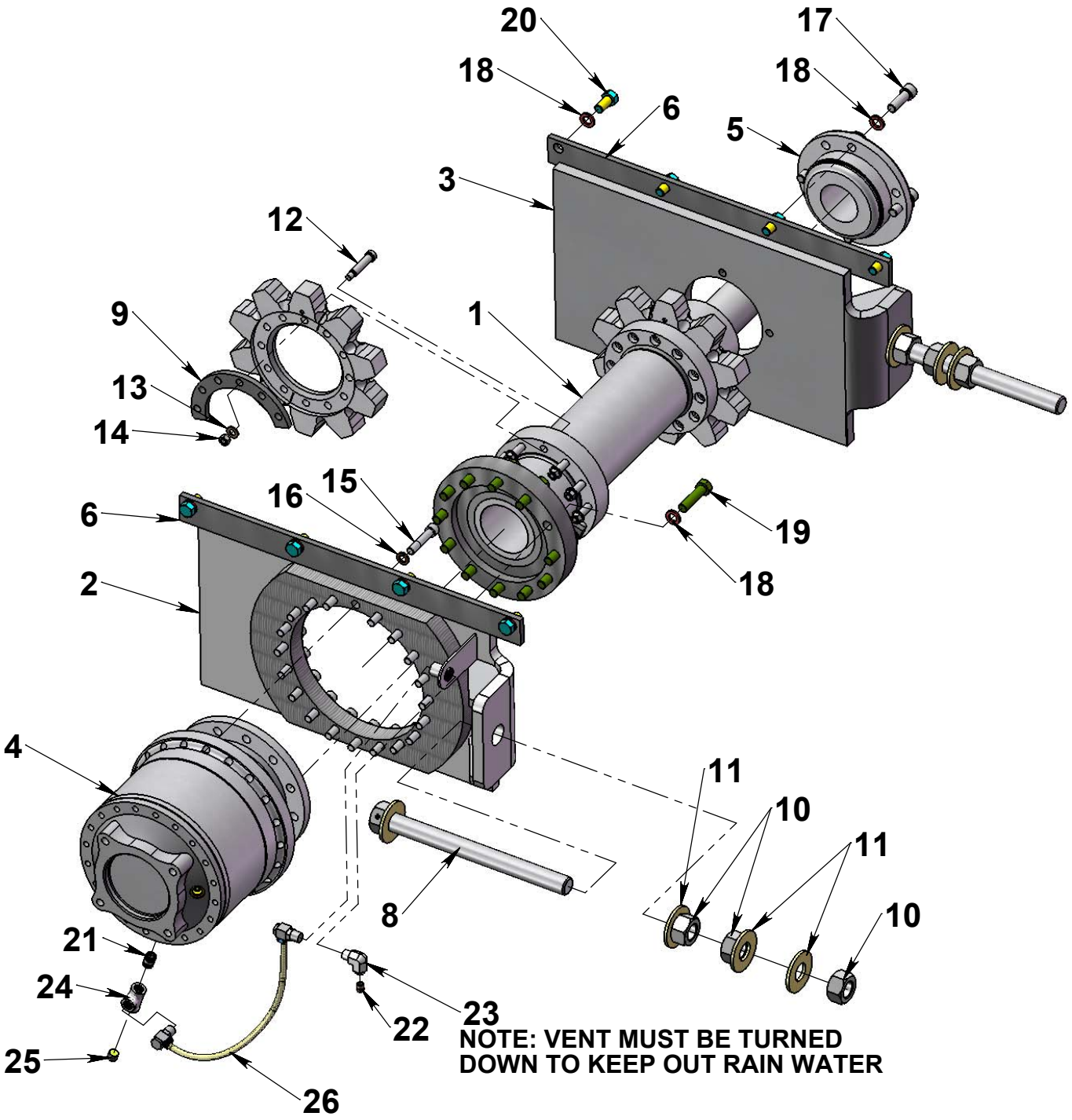
ASSEMBLY-C2 FOOT SHAFT
(230776-01)



ASSEMBLY-C2 FOOT SHAFT
(230776-01)

ITEM #	PART #	DESCRIPTION	QTY
1	230786-01	WELDMENT-C2 FOOTSHAFT	2
2	230778-01	AUGER * 4 3/16" LH PITCH	4
3	230779-01	AUGER * 4 3/16" RH PITCH	4
4	230780-01	AUGER * 6 7/8" LH PITCH	2
5	230781-01	AUGER * 6 7/8" RH PITCH	2
6	230782-01	AUGER * 12" LH PITCH	4
7	230783-01	AUGER * 12" RH PITCH	4
8	233352-02	SPROCKET * C1&C2 FOR LRG ROLLER CHN	2
9	223784-04	DETAIL-SPROCKET COVER PLATE	4
10	29M97	BEARING * 3 1/2" PILOTED	2
11	29M98	BEARING, FLANGED 3" 4-BOLT	2
12	220711-01	WLDT-BEARING PLATE	2
13	138651-04	BOLT * 5/8 X 2 1/2 SHOULDER	24
14	10D63	WASHER ~ 1/2" HARD A325	24
15	139741-04	NUT * 1/2-13 CENTER LOCK GRADE 8	24
16	141568	SCREW * 3/4-10"X 3 1/2"LG.SOC.HD	34
17	88164	NUT * 3/4"-10 TOP LOCK GRADE 8	34
18	10084	BOLT * HEX 3/4"-10 X 5"LG.	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	BOLT * CSK FLAT 1/2"-13 X 1"	18
22	146963	SCREW*HEX 3/4"-10 X 1 3/4" SOC.HD.	8

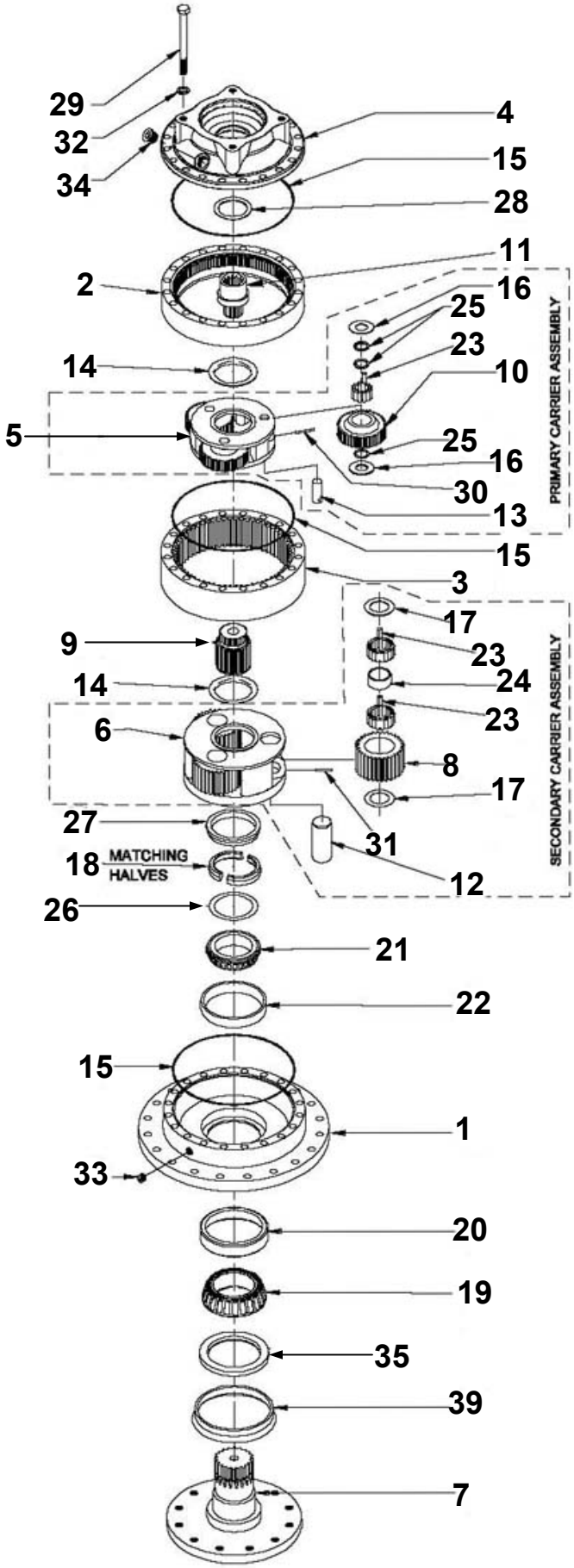
ASSEMBLY-C2 HEADSHAFT & TAKE-UP (235544-01)



ASSEMBLY-C2 HEADSHAFT & TAKE-UP (235544-01)

ITEM #	PART #	DESCRIPTION	Default/ 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	233352-02	SPROCKET * C1&C2 FOR LRG ROLLER CHN	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	6
11	83032	WASHER * FLAT 1 1/2" N SERIES	8
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
21	80164	NIPPLE * CLOSE 1/2"NPT STEEL	1
22	89577-04	FIT * VENT CAP 1/4 NPT	1
23	93112	FIT * 1/2" NPT M. - 1/4" NPT F. 90	1
24	91837-04	PLUMB * RUN TEE 1/2" NPT FEMALE	1
25	219401-04	HOLLOW HEX PLUG, 1/2" NPT	1
26	235665-04	MODIFICATION-GAUGE GEARBOX LEVEL	1

C-2 DRIVE GEARBOX
(203739-01)



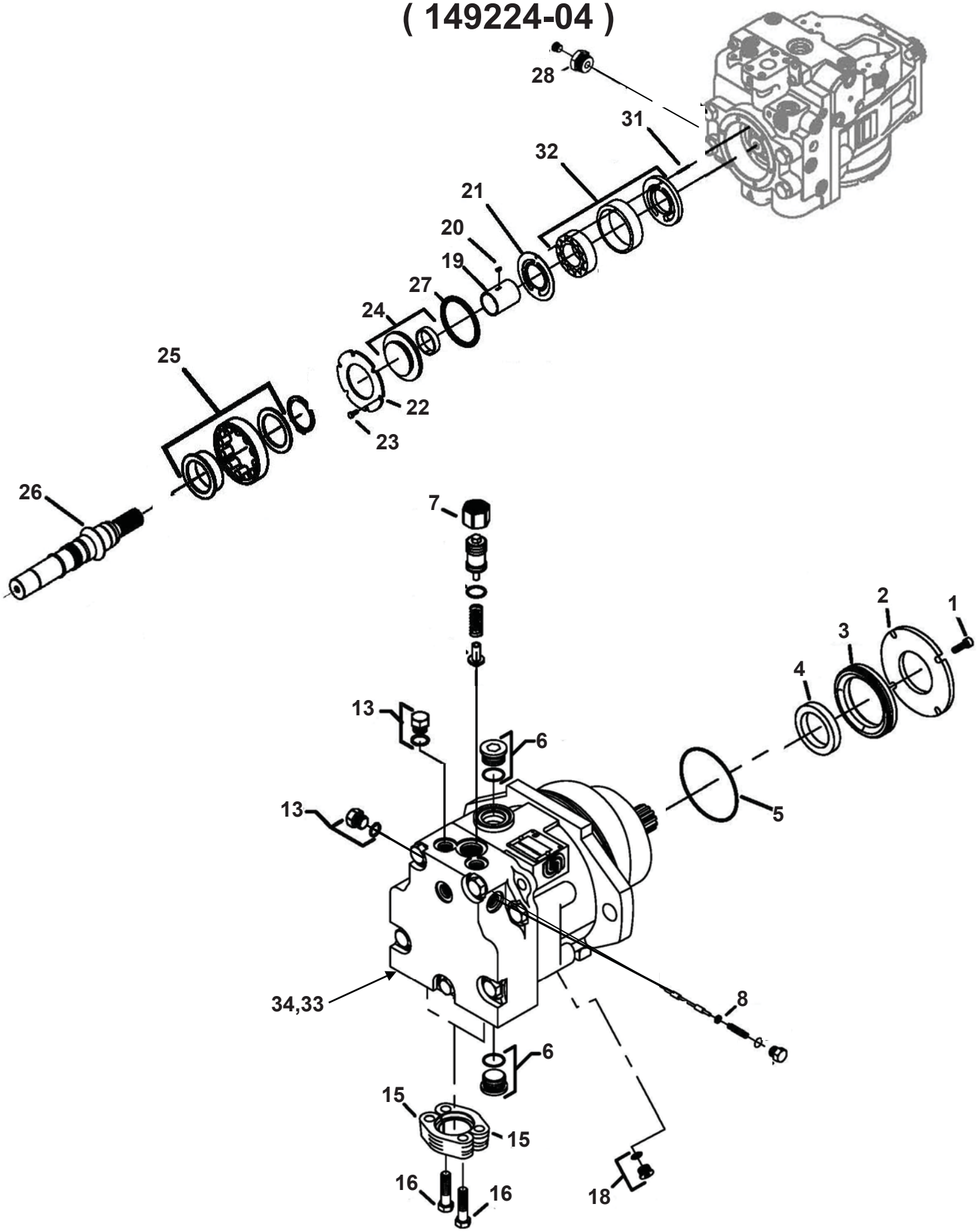
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C-2 DRIVE GEARBOX
(203739-01)

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

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C-2 DRIVE MOTOR
(149224-04)

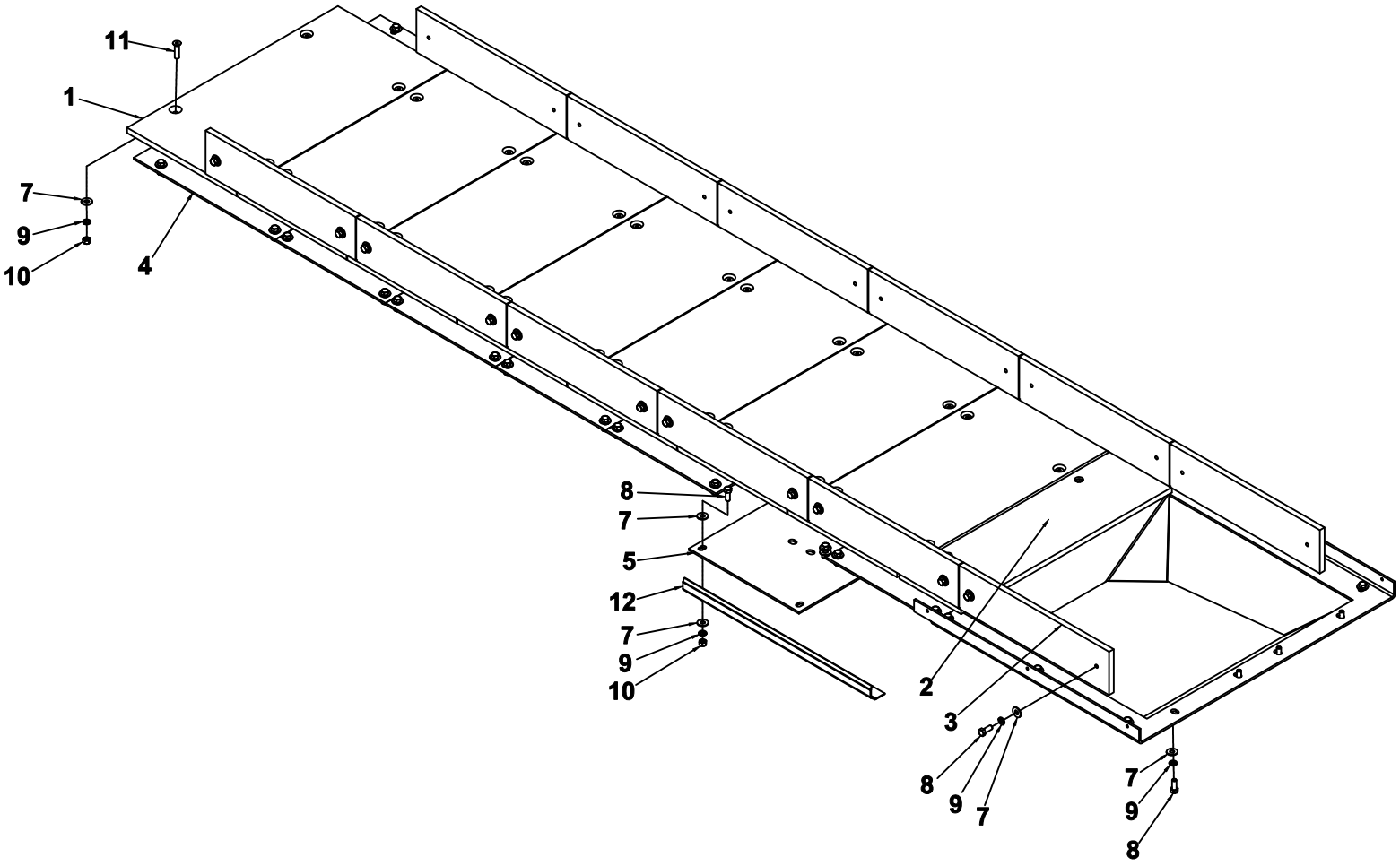


C-2 DRIVE MOTOR
(149224-04)

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			

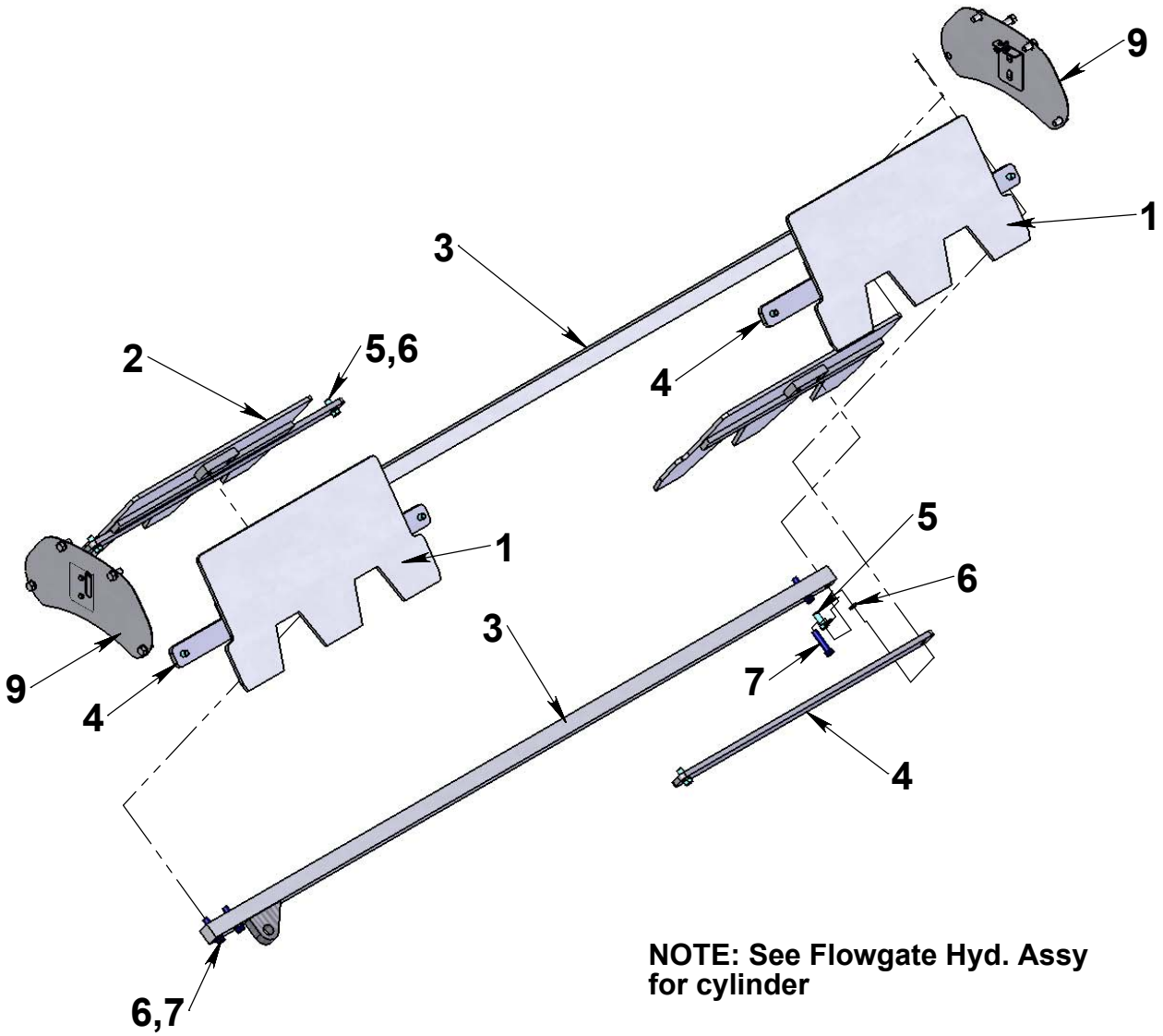
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C2 LINER & BOTTOM PLATE
(229755-01)



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)

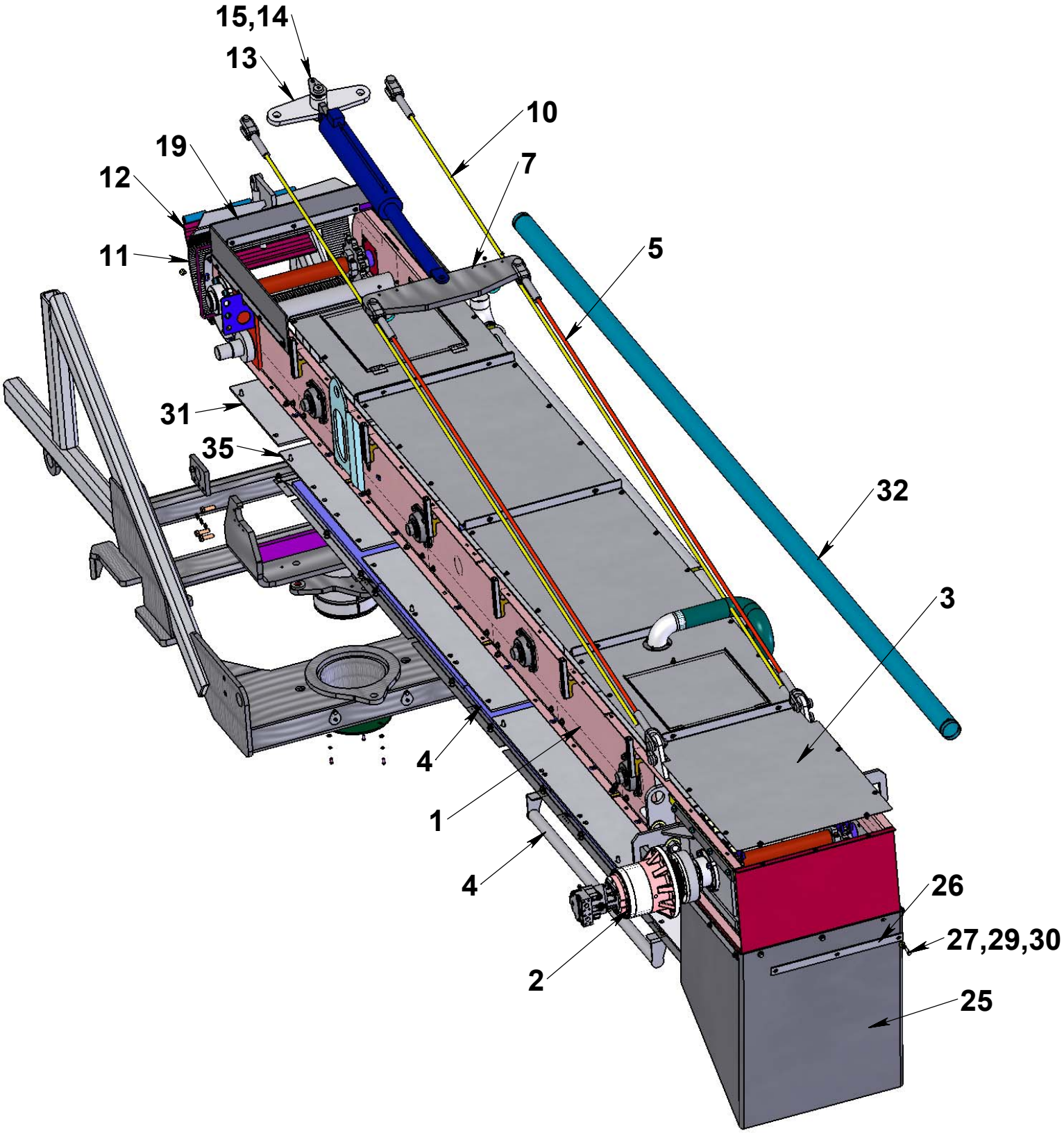


NOTE: See Flowgate Hyd. Assy for cylinder

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

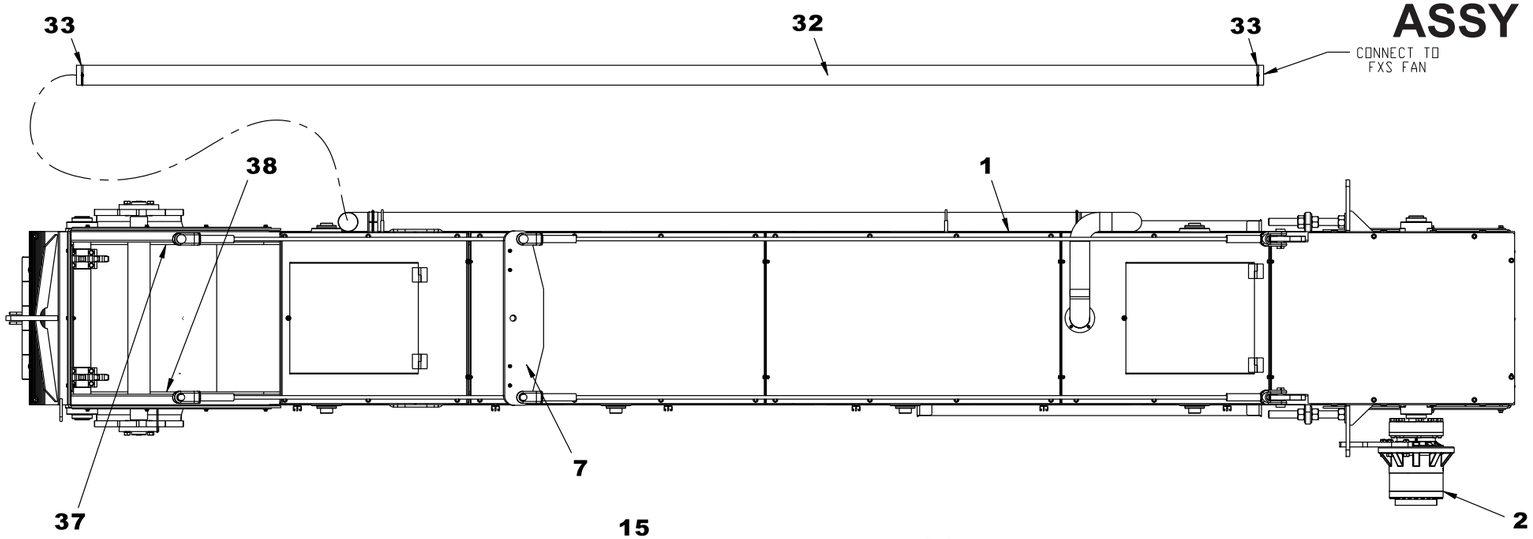
ASSY-C3 CONVEYOR SB-2500
(223787-01)

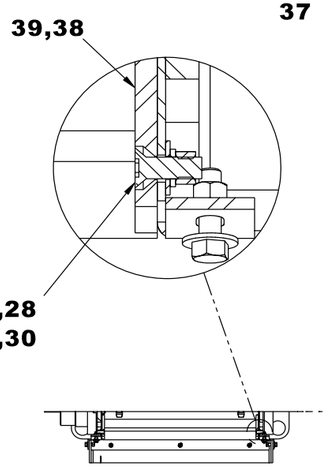
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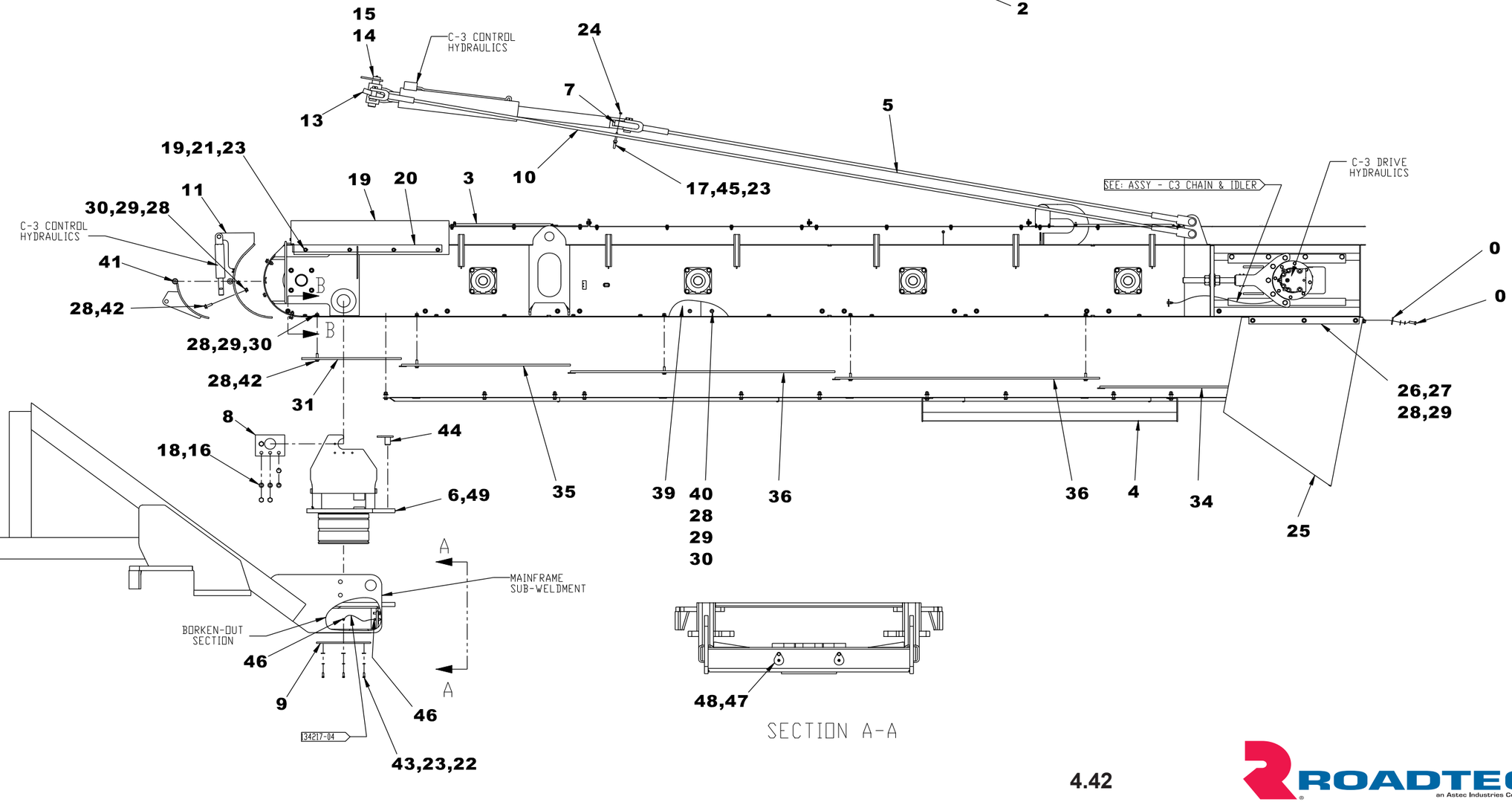
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ASSY - C3 CONVEYOR, SB-2500D
(223787-01)





SECTION B-B



SECTION A-A

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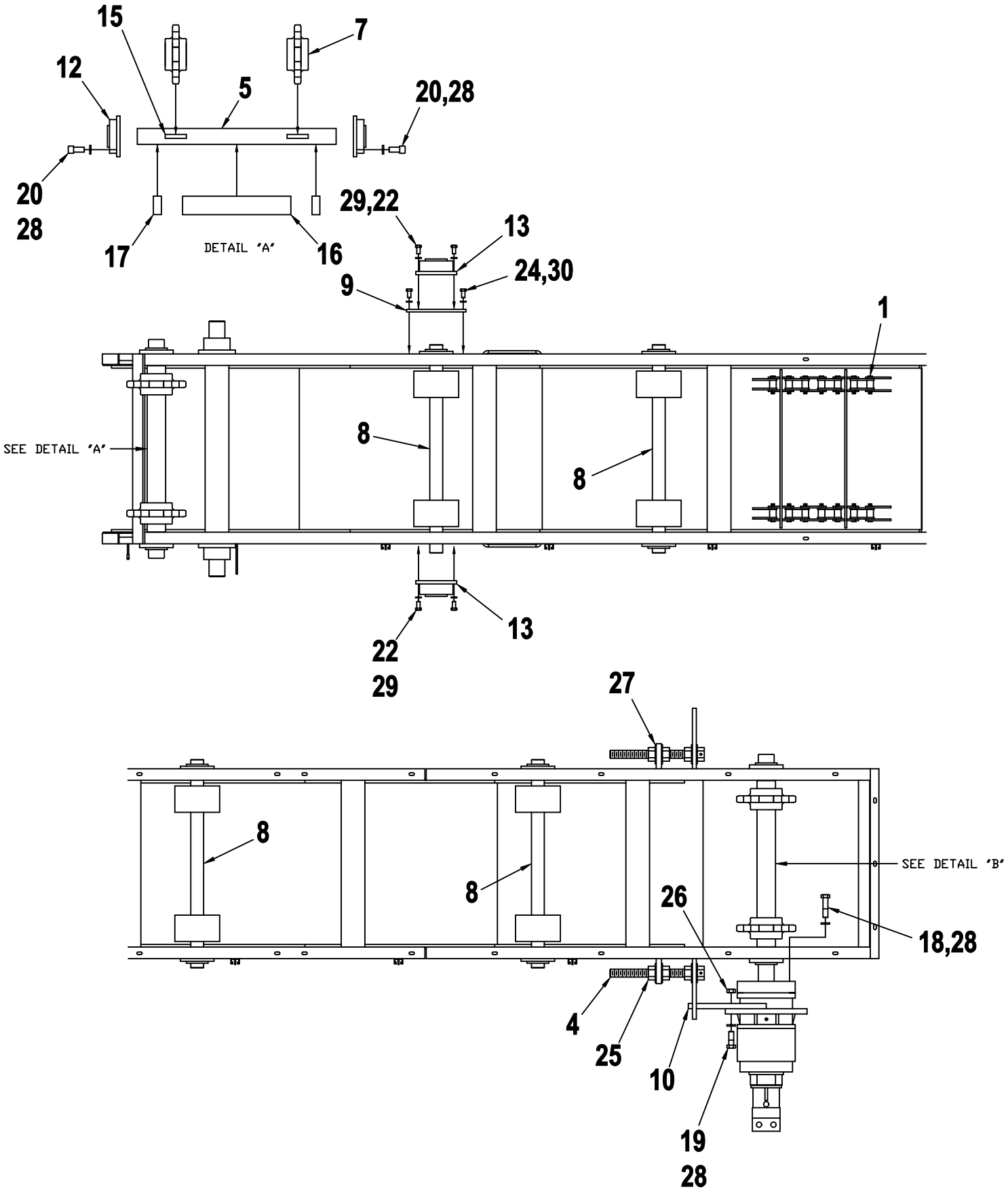
C-3 CONVEYOR ASSEMBLY
(223787-01)

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

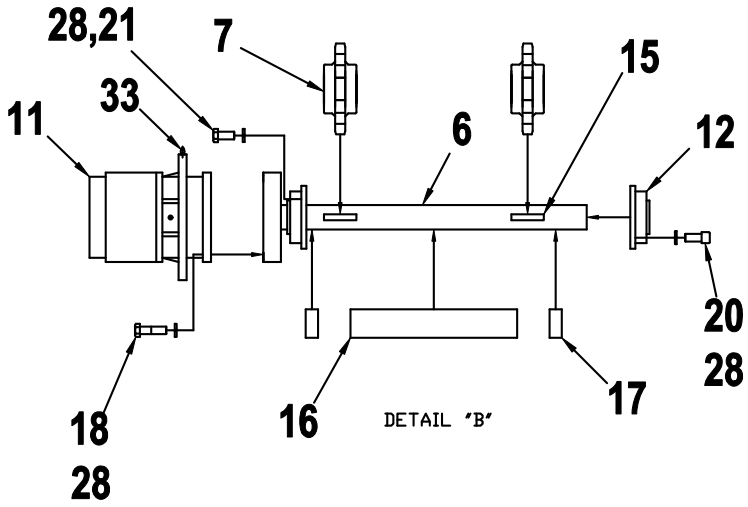
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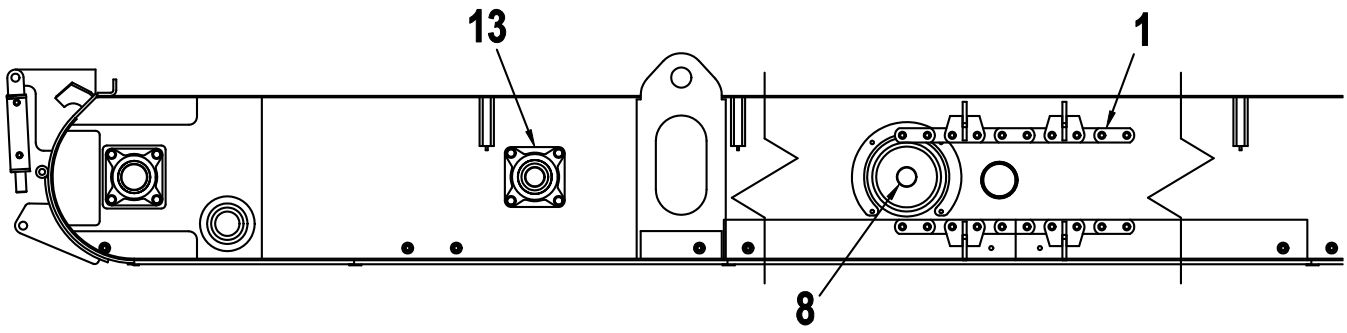
C-3 CHAIN & IDLER ASSEMBLY
(223788-01)

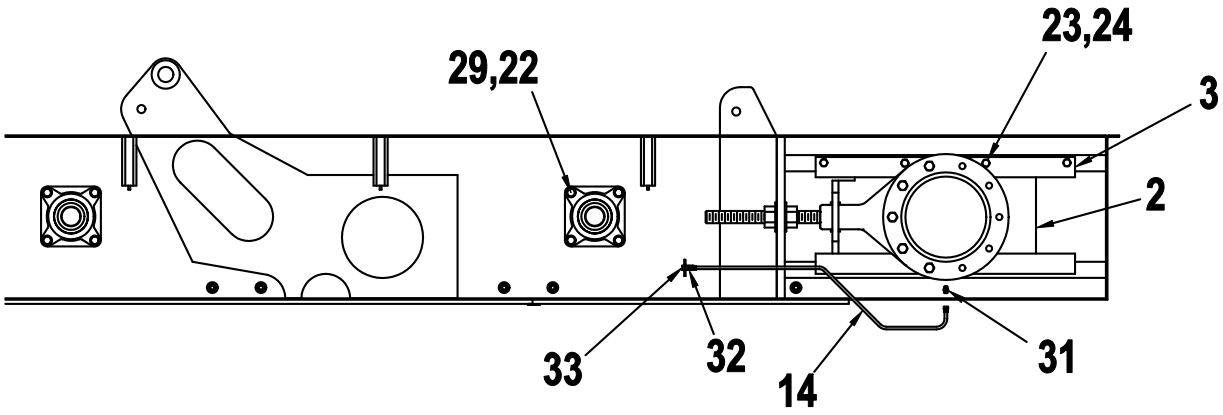
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C-3 CHAIN & IDLER ASSEMBLY
(223788-01)





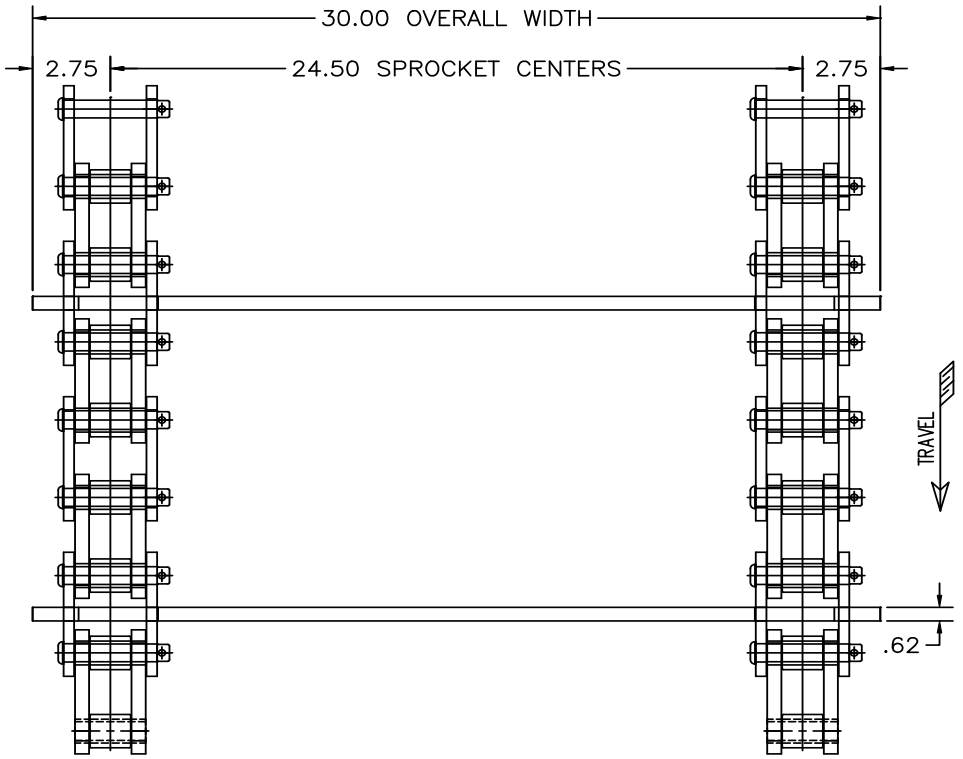


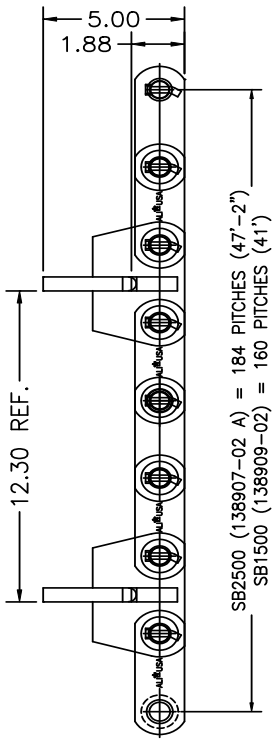
C-3 CHAIN & IDLER ASSEMBLY
(223788-01)

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			

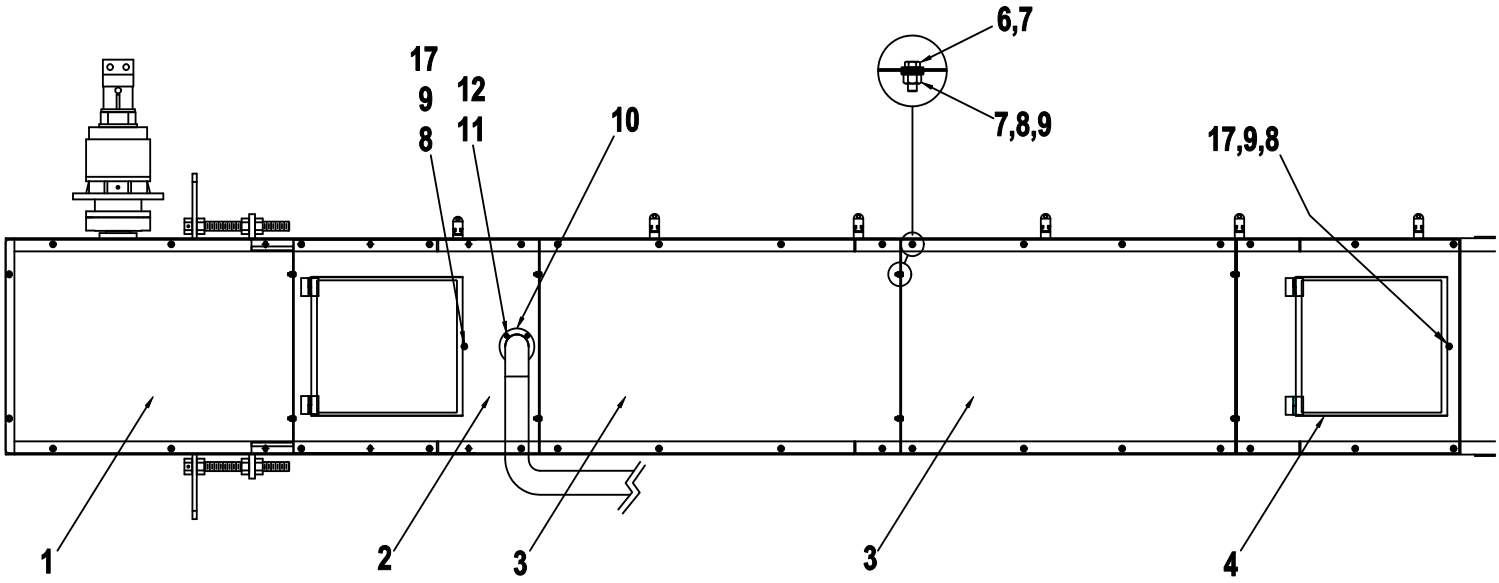


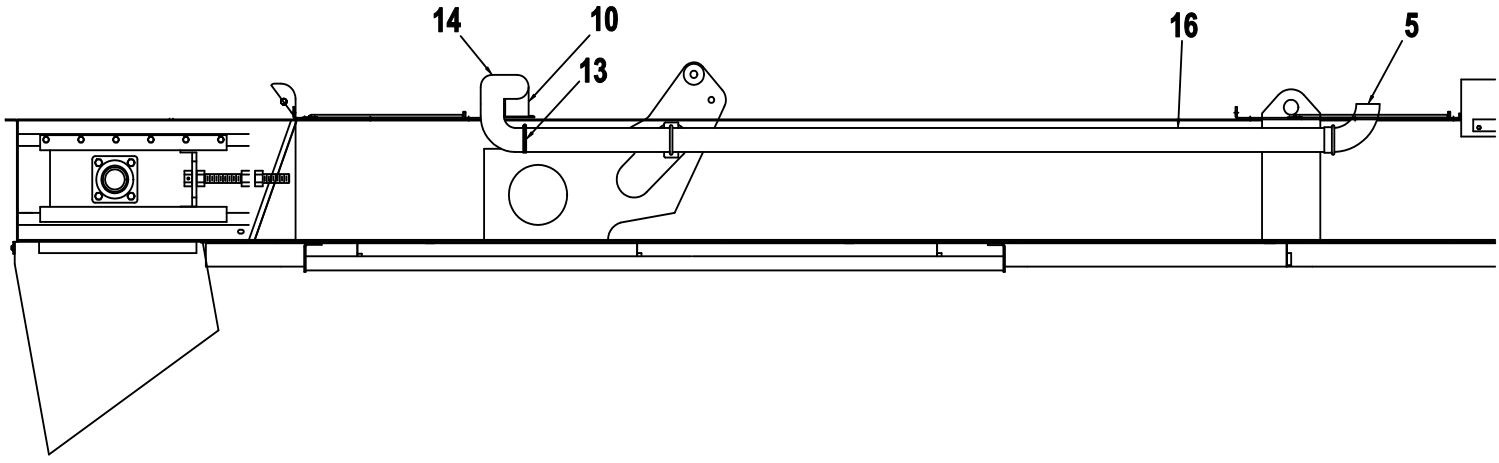


WELD SIZE +0/−1/16"

	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

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

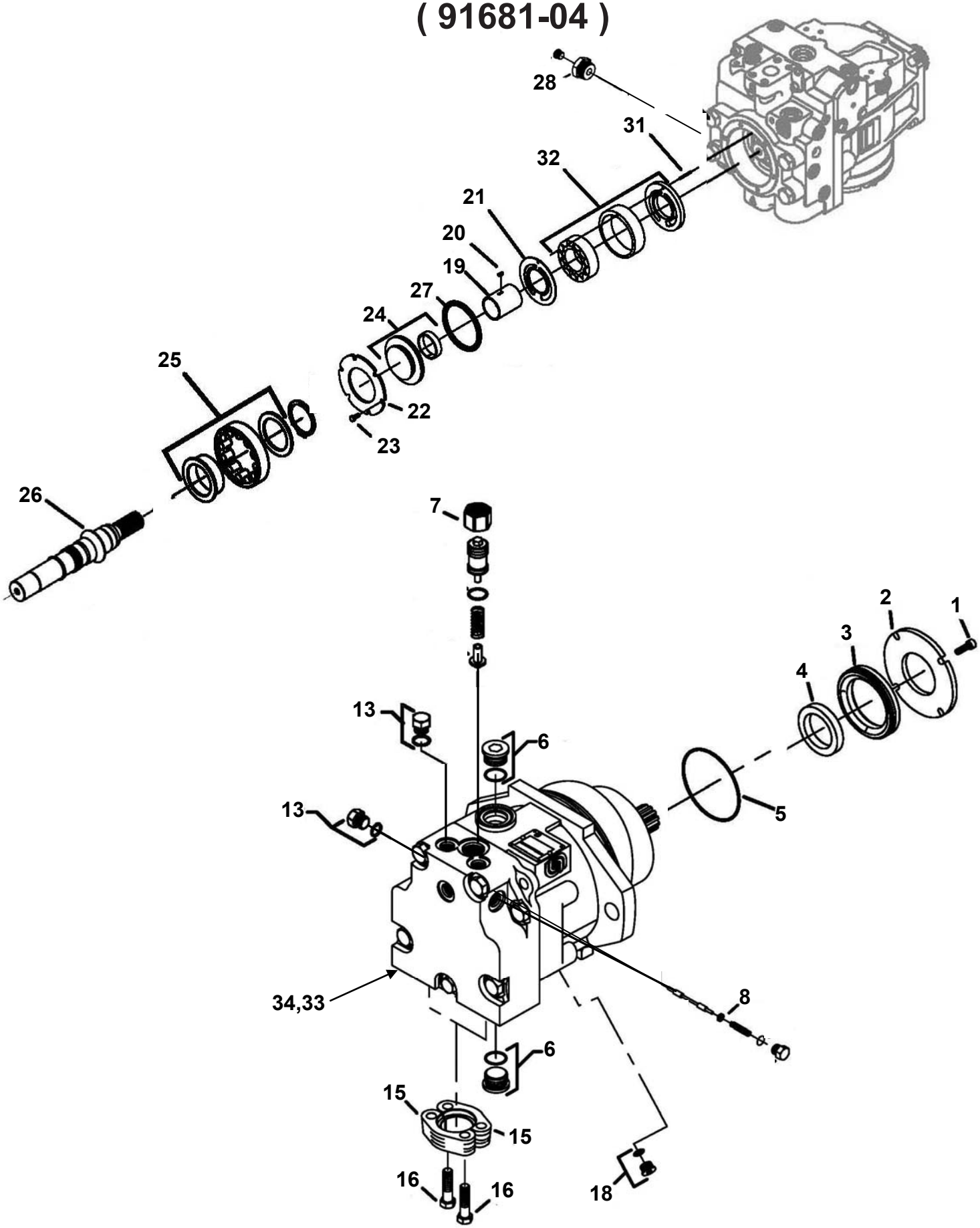




C-3 TOP COVER W/ FUME-EX ASSEMBLY
(214493-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	214674-03	TO COVER (DISCHARGE END)	1
2	214673-03	TOP COVER WELDMENT	1
3	214492-03	TOP COVER PANEL	2
4	214650-03	TOP COVER WELDMENT (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	50
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)

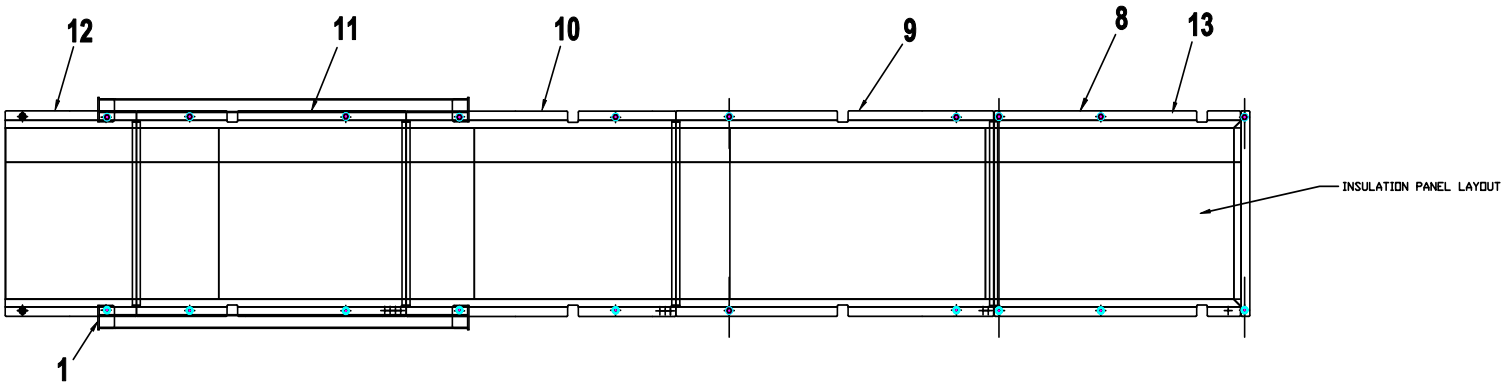


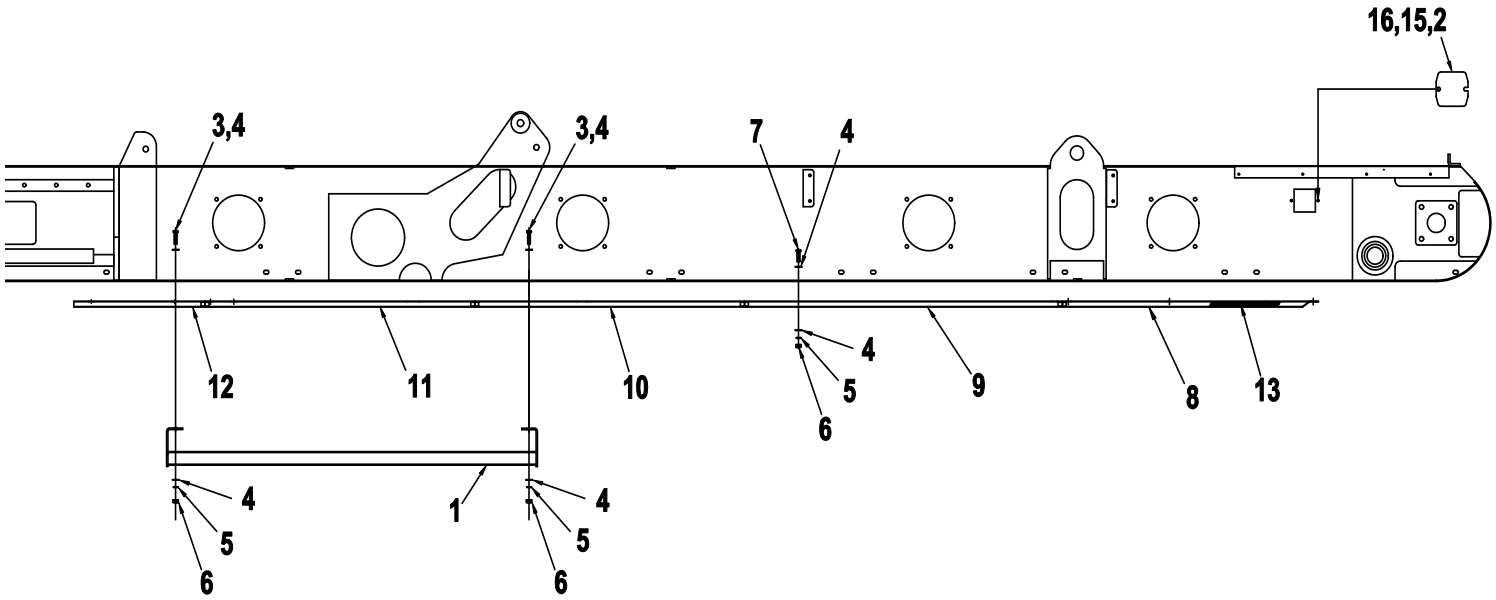
C-3 DRIVE MOTOR
(91681-04)

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)



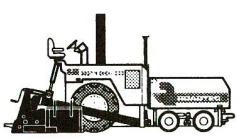


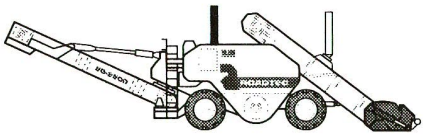
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	212605-01	C3 GUARD RAILS (SP-200)	2
2	129384-03	CHAIN INSPECTION PLATE	1
3	84674	HEX BOLT - 1/2-13 X 2" GR8	4
4	83781-04	FLAT WASHER - 1/2" STEEL	40
5	83317	LOCK WASHER - 1/2" SPRING STEEL	20
6	83288	HEX NUT - 1/2-13 GR8	20
7	89142	HEX BOLT - 1/2-13 X 1 3/4" GR8	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

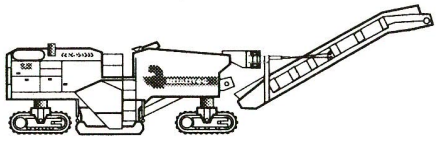
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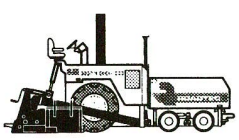
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

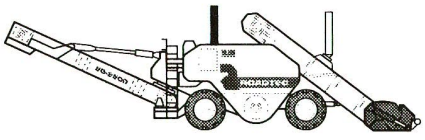
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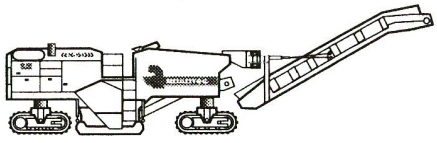
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SECTION 5 : HYDRAULICS

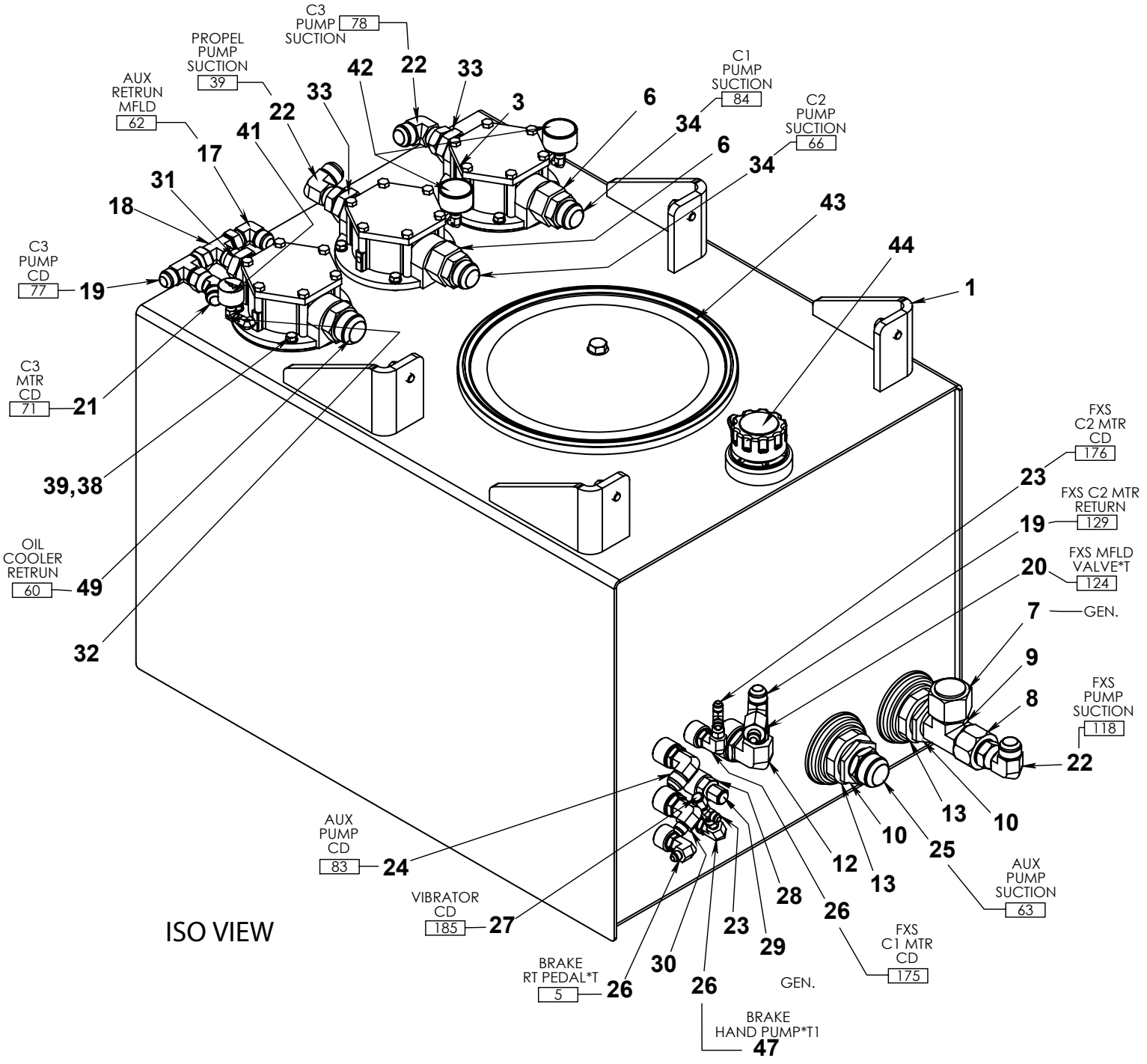
ASSEMBLY	PART NO.	S/N	PAGE NO.
HYDRAULIC TANK	239511-01	1221 & UP	5.1
HOUSING.- DOUBLE ELEMENT FILTER	29G38		5.5
18” ELEMENT	229517-03		5.6
HOUSING - 2 ELEMENT FILTER W/ BY-PASS	29G37		5.7
18” ELEMENT	229518-03		5.8
AUXILIARY PUMP	239408-01	1221 & UP	5.10
FILTER, HI PRESS. IN-LINE	232246-03		5.12
RETURN MANIFOLD	231719-03		5.13
AUX. RETURN MANIFOLD	232249-03		5.14
AUX. PRESSURE MANIFOLD	232251-03		5.15
BRAKE	230754-01		5.17
BRAKE ACCUMULATOR	202729-03		5.21
R.H. BRAKE ACTUATOR	202728-03		5.22
L.H. BRAKE ACTUATOR	230674-02		5.23
BRAKE MANIFOLD	214884-03		5.24
FUME CONTROL	214930-02		5.25
FUME CNTL. MANIFOLD	214887-03		5.26
C-1 CONVEYOR DRIVE	239410-01	1221 & UP	5.28
C-1 HOPPER	240910-01	1251 & UP	5.30
C-1 HOPPER CONTROL MANIFOLD	240911-02		5.33
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
C-1 RAISE / LOWER	240908-01	1251 & UP	5.38
C-1 RAISE/LOWER MANIFOLD	240909-03		5.40
CYLINDER, C-1 RAISE/LOWER	207380-01		5.41
C-1 HYD. PUSH ROLLER	209080-01	722 & UP	5.43
PUSH ROLLER MANIFOLD	209079-02		5.45
CYLINDER, PUSH ROLLER	147955-03		5.46
C-2 CONVEYOR DRIVE	239411-01	1221 & UP	5.48
C-2 HOPPER CLEAN OUT	226792-01		5.51
CYLINDER, C-2 CLEAN OUT	225738-01		5.53
C-3 CONVEYOR DRIVE	145972-01		5.55
C-3 CONTROL	240914-01	1251 & UP	5.58
C-3 CNTL. MANIFOLD	240915-02		5.60
CYLINDER, C-3 LIFT	214518-01		5.61
CYLINDER, C-3 SWING	144901-01		5.62
CYLINDER, C-3 CLEAN OUT	144899-01		5.63

SECTION 5 : HYDRAULICS

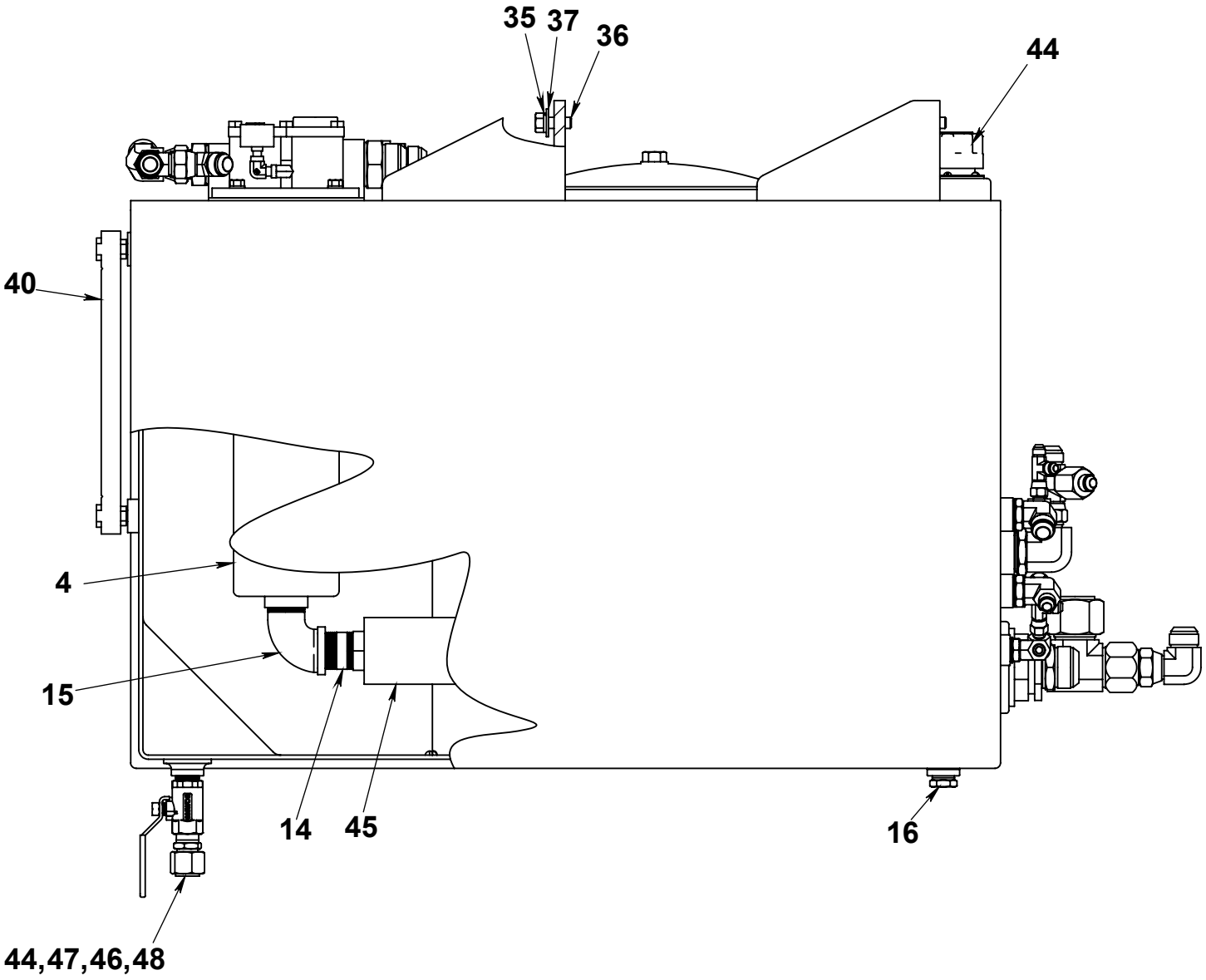
ASSEMBLY	PART NO.	S/N	PAGE NO.
FLOWGATE	240912-01		5.64
FLOWGATE CNTL. MANIFOLD	240913-02		5.66
CYLINDER, FLOWGATE	144894-01		5.67
HOOD RAISE	204266-01		5.69
CYLINDER, HOOD RAISE	201812-01		5.72
DRIVE (PROPEL)	239409-01	1221 & UP	5.74
DIFF. LOCK VALVE	221111-02		5.76
HAND PUMP / PILOT VALVE MANIFOLD	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	239468-04	1221 & UP	
SCHEMATIC	235483-01	1109 & UP	

ASSEMBLY - HYDRAULIC TANK
(239511-01)

NEXT PAGE

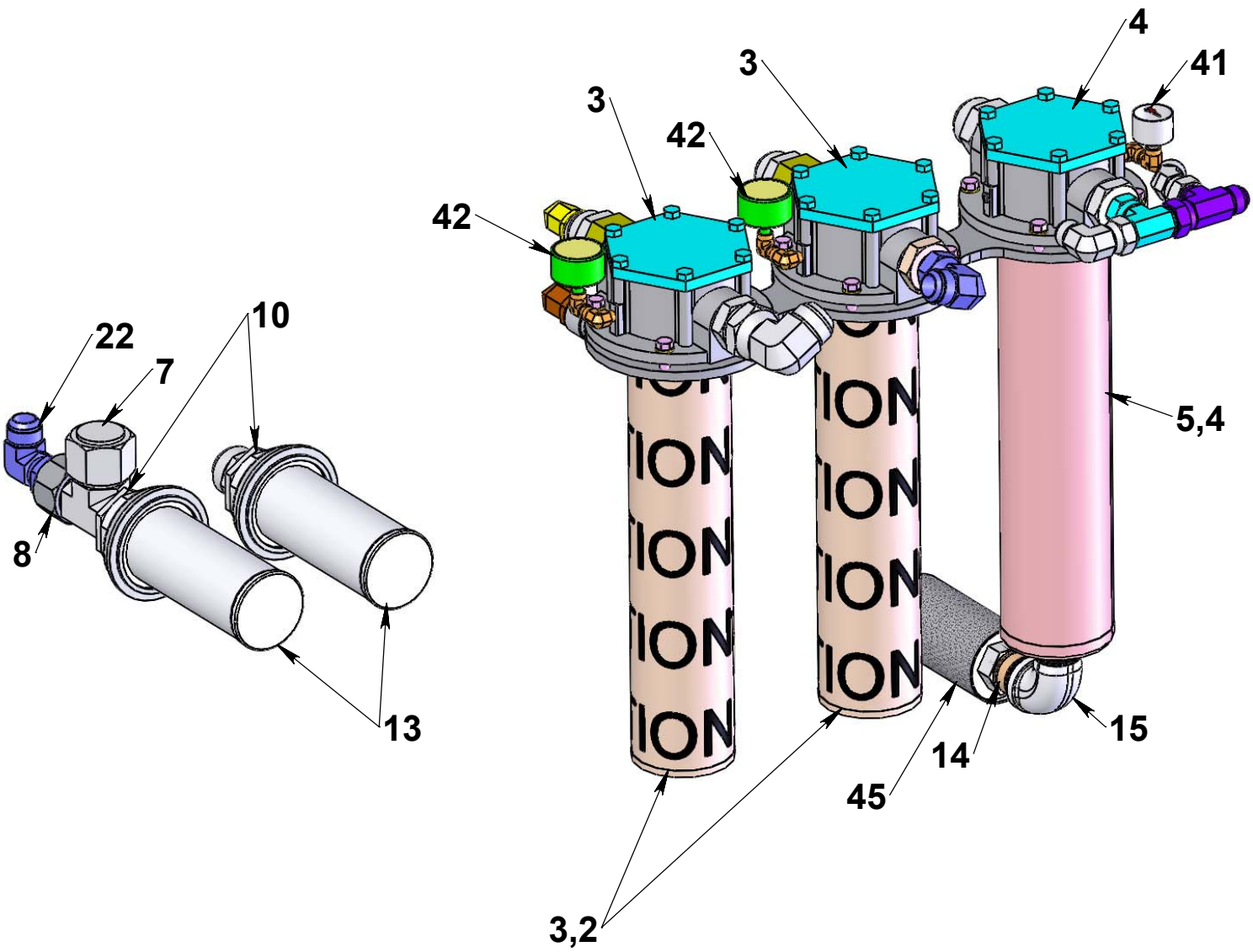


ASSEMBLY - HYDRAULIC TANK
(239511-01)



PREVIOUS PAGE

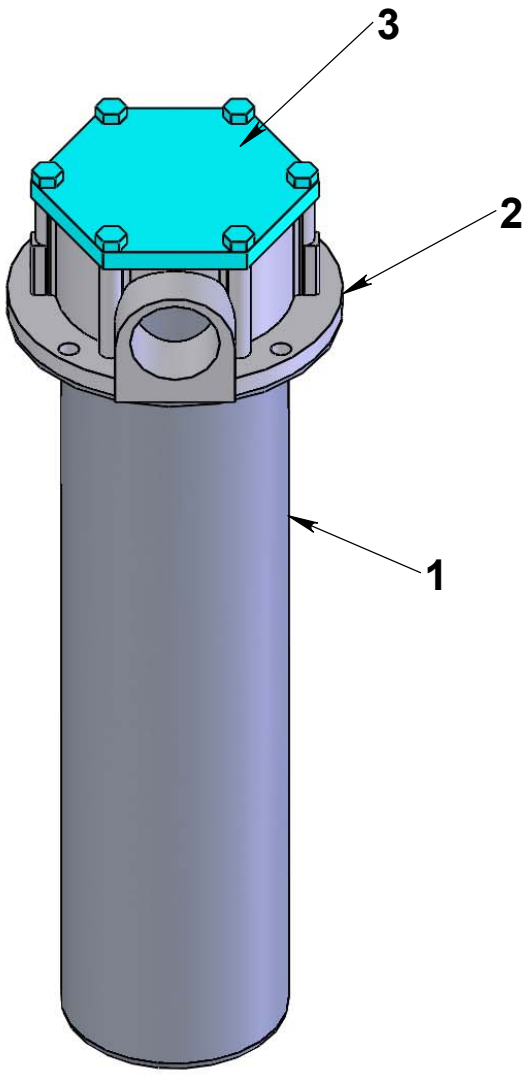
ASSEMBLY-HYDRAULIC TANK (239511-01)



ASSEMBLY-HYDRAULIC TANK
(239511-01)

ITEM #	PART #	DESCRIPTION	Default/ QTY
1	228582-01	WELDMENT ~ HYDRAULIC TANK	1
2	229517-03	ELEMENT - LABELED 18" 10 MICRON SUCTION	2
3	29G38	FILTER ~ HOUSING DOUBLE ELEMENT	2
4	29G37	FILTER ~ HOUSING 2 ELEMENT W/BYPASS	1
5	229518-03	ELEMENT - LABELED 18" 3 MICRON RETURN	1
6	28G05	FIT * ST.ADAPTOR 24 SAEM X 20 SAEF	2
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	2
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.	1
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
49	83768-04	FIT * CONNECTOR 24 JIC - 24 SAE M.	1
50	85216-04	FIT * SWIVEL ELBOW 20 JIC 90 DEG	1

FILTER ~ HOUSING DOUBLE ELEMENT (29G38)



REPLACEMENT ELEMENT: #229517-03 10 MICRON SUCTION

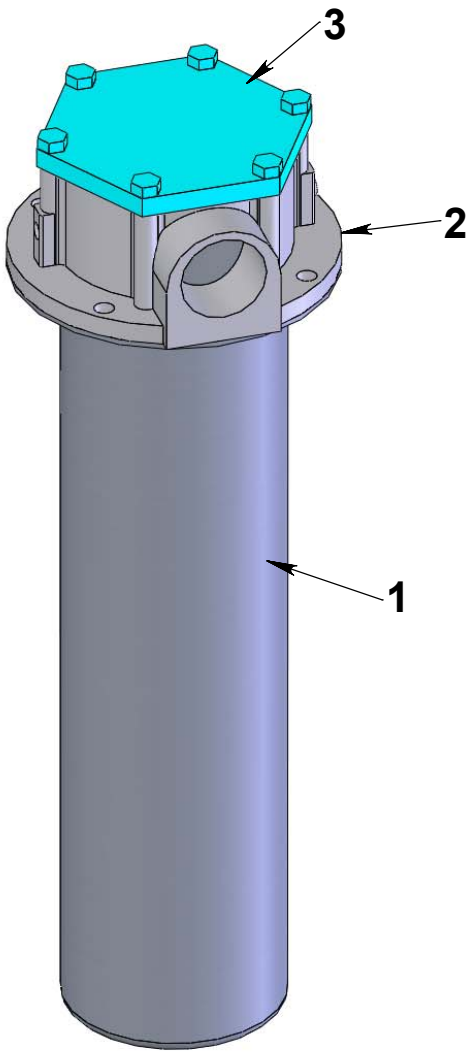
ITEM #	PART #	DESCRIPTION	QTY
1	29g38 bowl	29g38 bowl	1
2	28g38 filter head	28g38 filter head	1
3	29g38 filter head cap	29g38 filter head cap	1

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

ASSEMBLY- AUXILIARY & OIL COOLER
(239408-01)

ITEM	PART #	DESCRIPTION	QTY
1	232246-03	ASSEMBLY-FILTER HIGH PRESSURE IN-LINE	1
2	238603-03	ASSEMBLY-RETURN MANIFOLD	1
3		ASSEMBLY-MANIFOLD AUX. RETURN	1
4	232251-03	ASSEMBLY-MANIFOLD AUX. PRESSURE	1
5	131456	FIT * 24 JIC - 20 SAE ST.	2

NOTE :
REF.APPROPRIATE HOSE RT FOR HOSE DETAILS.

(XX) - ITEM

XX - HOSE NUMBER

C2 COD VALVE*T 49
STEERING VALVE*T 55
BRAKE MFLD*T 13
HOOD ROD END CYL 9

14 BRAKE MFLD*P
42 HAND PUMP MFLD*P
56 STEERING VALVE*P
50 C2 COD VALVE*P

MANIFOLD BRACKET LOCATED ON LEFT REAR HOPPER PANEL (FOR SB-2500)

3 4

FLOW GATE VALVE*T 23
C3 COD VALVE*T1 136
C1 LIFT MFLD*T1 96A

97A C1 LIFT MFLD*P1
137 C3 COD VALVE*P1
24 FLOW GATE VALVE*P
29 EZ START JUMPER

(ASSY AUX. MANIFOLDS SB-2500)

1

HIGH PRESSURE FILTER BRACKET (REF LH SIDEWALL)

170

64

AIR CLEANER BRACKET (REF AIR BREATHER ASSY)

2

R C1 MTR CD 86
C2 MTR CD 68
C2 PUMP CD 67
PROPEL PUMP CD 112

85 L C1 MTR CD
41 PROPEL R MTR CD
40A PROPEL F MTR CD
65 C1 PUMP CD

TO OIL COOLER (TOP PORT-SUPPLY)

61

5

ENGINE ASSEMBLY

AUX. OIL PUMP

63

62

63

60

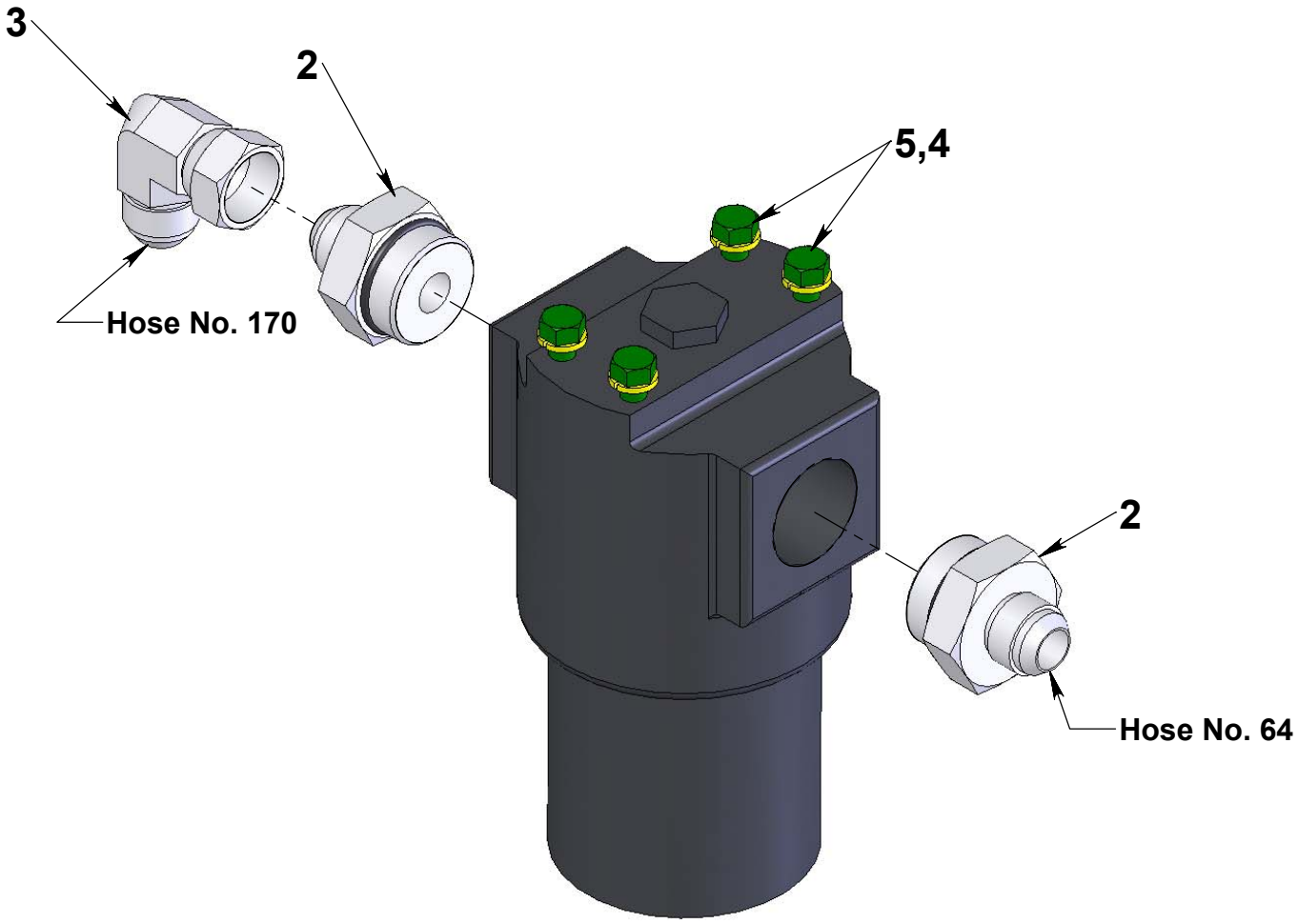
FROM OIL COOLER (BOTTOM PORT-RETURN)

5

REF HYDRAULIC TANK ASSEMBLY

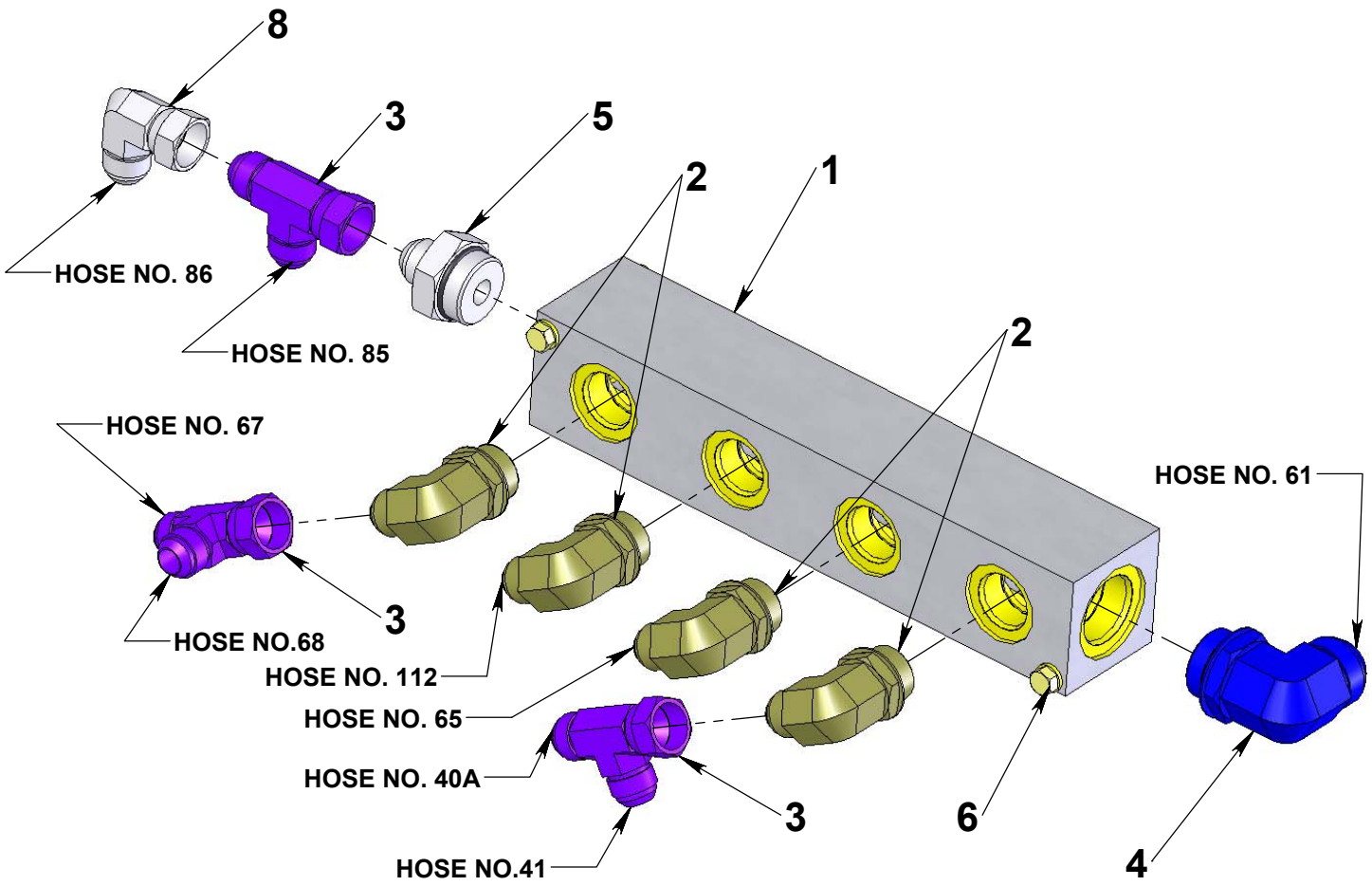
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ASSEMBLY-FILTER HIGH PRESSURE IN-LINE (232246-03)



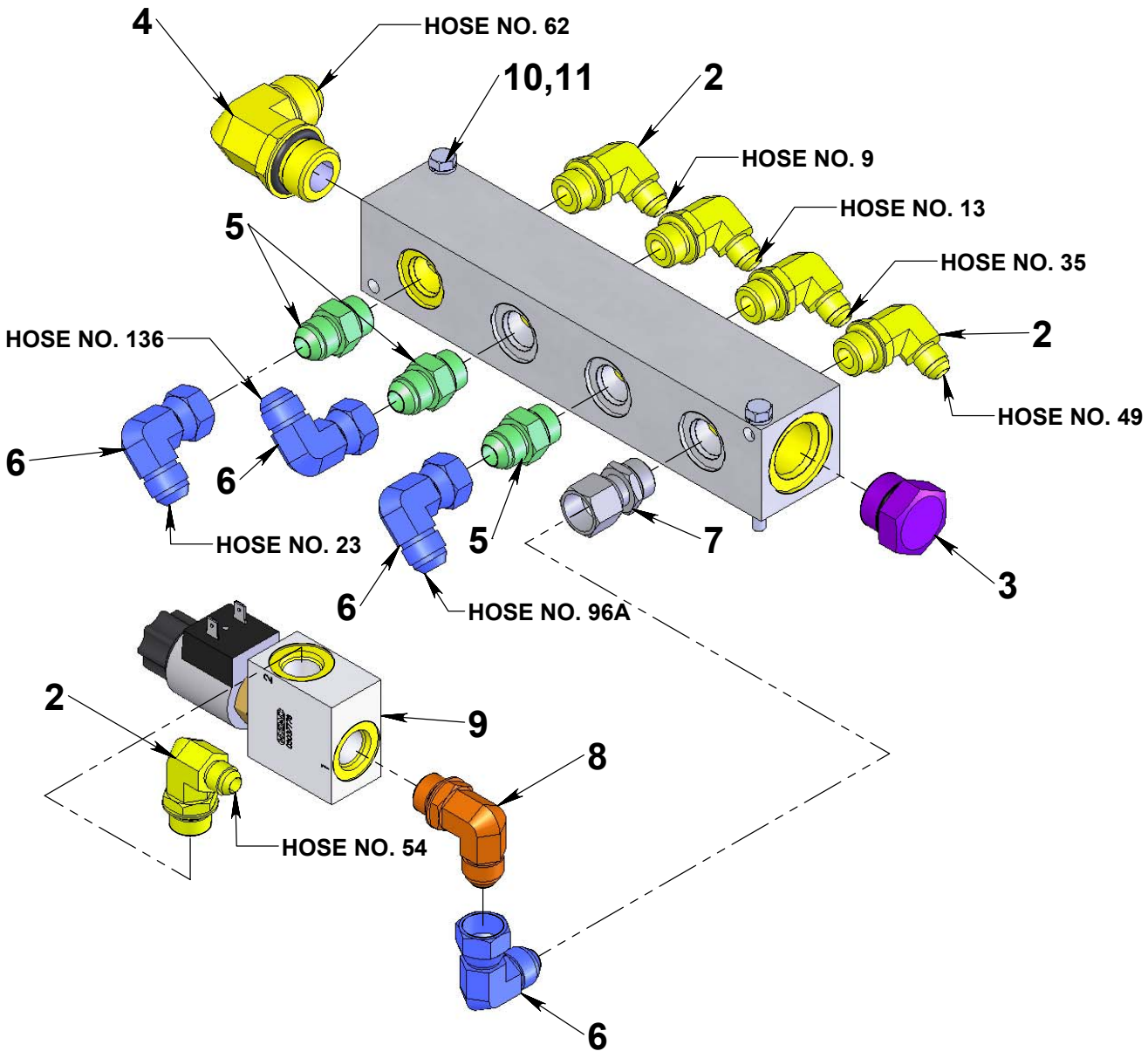
ITEM #	PART #	DESCRIPTION	QTY
1	142799-03	FILTER ~ HIGH PRESSURE IN-LINE	1
2	120671	FIT ~ 12 JIC x 20 SAE ST.	2
3	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	1
4	83056	WASHER ~ LOCK 3/8 SPRING STEEL	4
5	142926	BOLT * HEX 3/8-24 X 1 GD.8	4

ASSEMBLY-RETURN MANIFOLD
(231719-03)



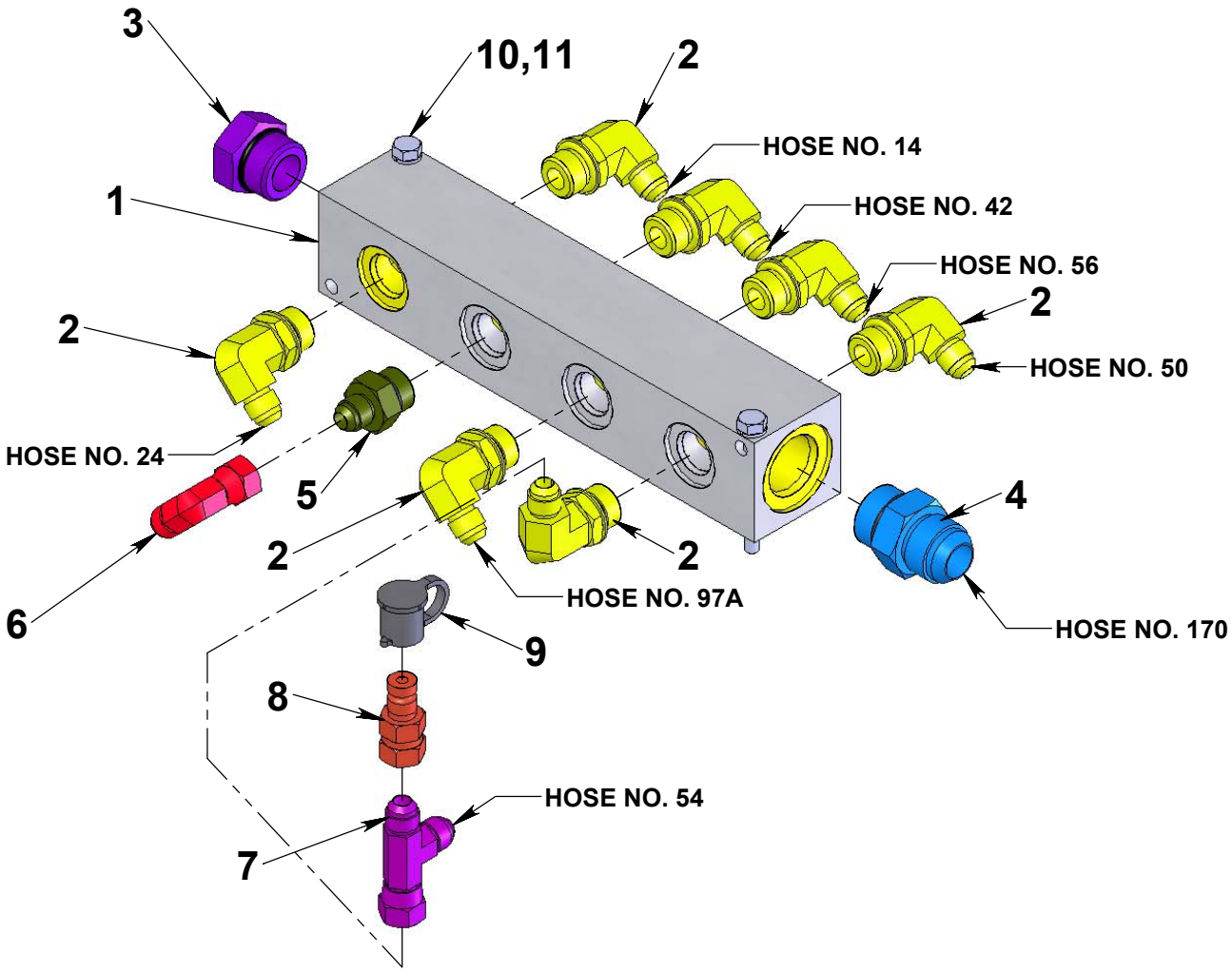
ITEM #	PART #	DESCRIPTION	QTY
1	206524-03	MANIFOLD * 0° HEADER (16 SAE PORTS)	1
2	85875-04	FIT * ELBOW 12 JIC M - 16 SAE 90	4
3	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	3
4	97168	FIT * ELBOW 20 JIC X 20 SAE 90 DEG.	1
5	120671	FIT ~ 12 JIC x 20 SAE ST.	1
6	121809	BOLT * HEX 3/8"-16 X 3 1/2"	2
7	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
8	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	1

ASSEMBLY-MANIFOLD AUX. RETURN (232249-03)



ITEM #	PART #	DESCRIPTION	QTY
1	206522-03	180 DEGREE MANIFOLD BLOCK	1
2	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	5
3	83979-04	FIT ~ PLUG #12 SAE	1
4	91664-04	FIT - ELBOW 12 JIC - 12 SAE 90 DEG.	1
5	83459-04	FIT ~ CONNECTOR 8 JIC x 8 SAE MALE	3
6	83732-04	FIT ~ ELBOW 8JIC M x 8 F 90 SW STL	4
7	122168	FIT * 8 SAE M. - 8 JIC F. SWIVEL	1
8	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	1
9	212947-03	VALVE * NC POPPET W/ REVRESE FLOW	1
10	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
11	85563-04	BOLT * HEX 1/4"-20 X 2 1/2"	2

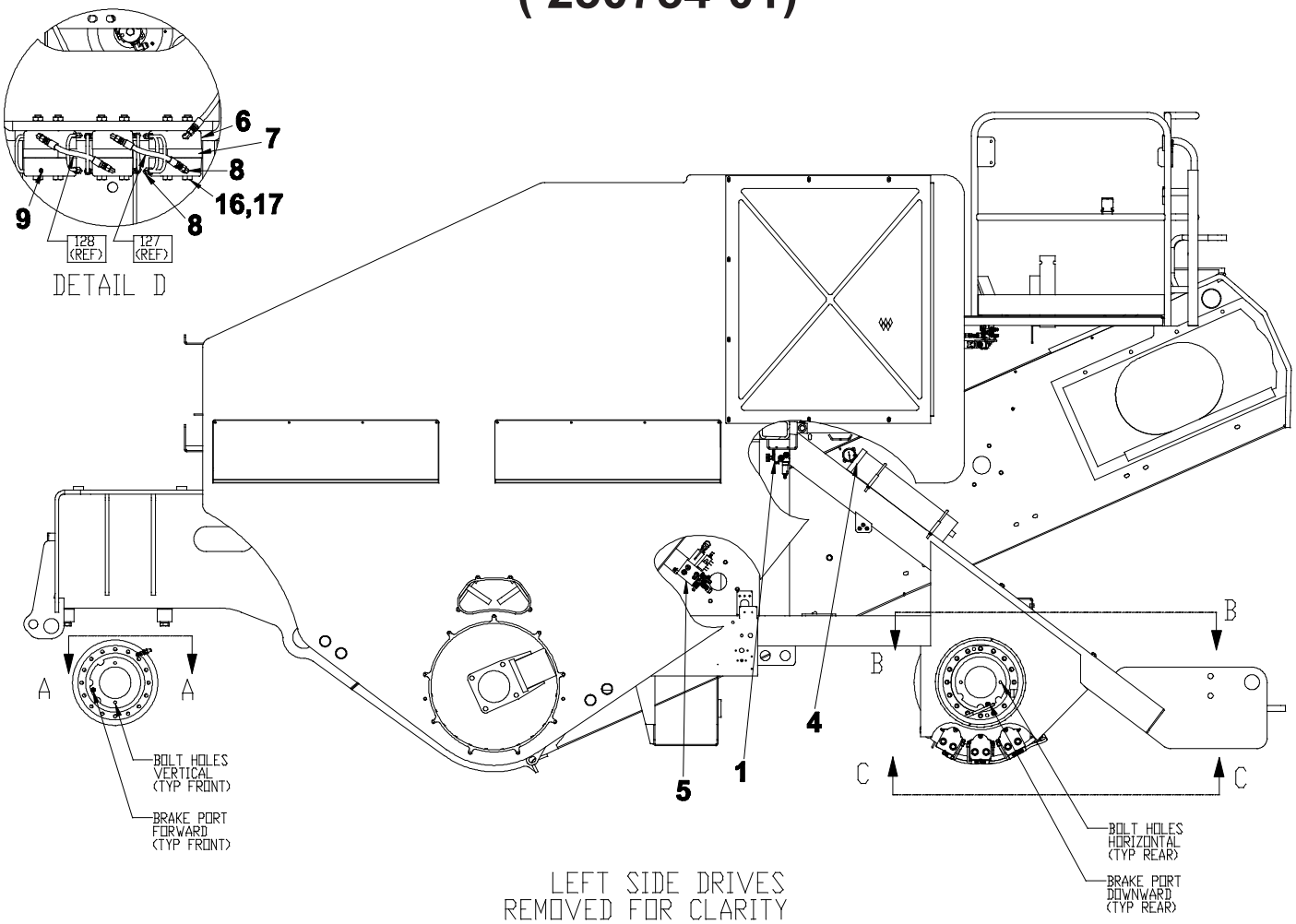
ASSEMBLY-MANIFOLD AUX. PRESSURE (232251-03)

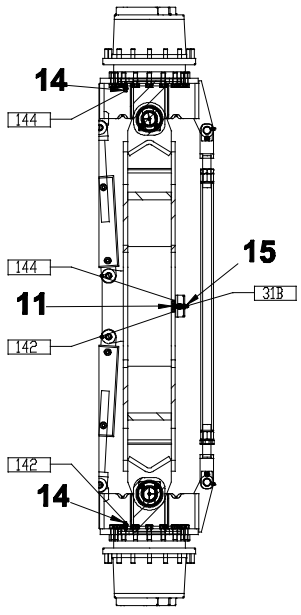


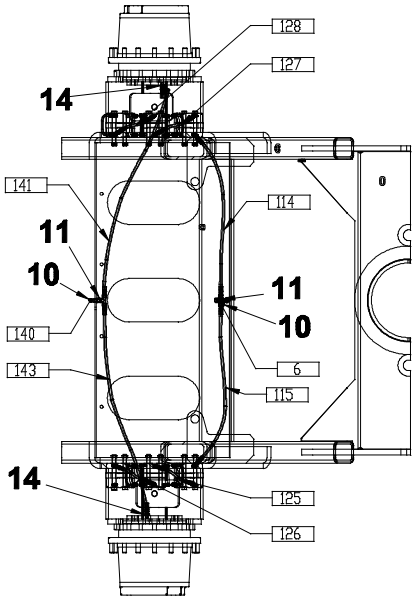
ITEM #	PART #	DESCRIPTION	QTY
1	206522-03	180 DEGREE MANIFOLD BLOCK	1
2	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	7
3	83979-04	FIT ~ PLUG #12 SAE	1
4	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1
5	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	1
6	83953-04	FIT ~ FM SWIVEL ELBOW 6 JIC 90 DEG.	1
7	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	1
8	131680-04	FIT*MALE TEST PORT 6 JIC CONNECTOR	1
9	85949-04	FIT ~ TEST PORT QD CAP 3/8	1
10	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
11	85563-04	BOLT * HEX 1/4"-20 X 2 1/2"	2

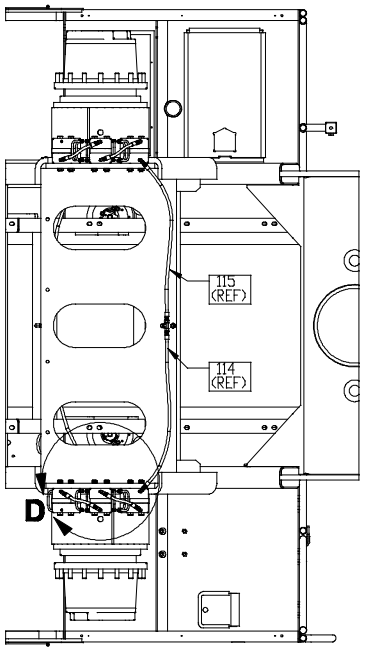
BRAKE CIRCUIT HYDRAULICS
(230754-01)

NEXT PAGE

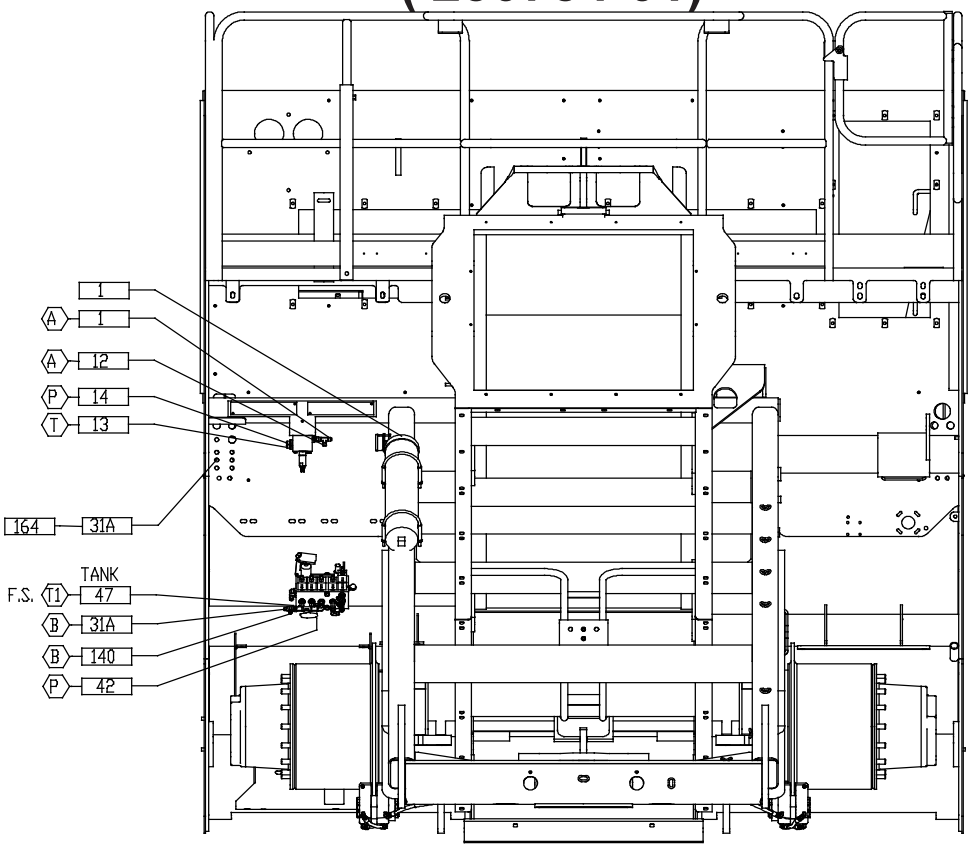


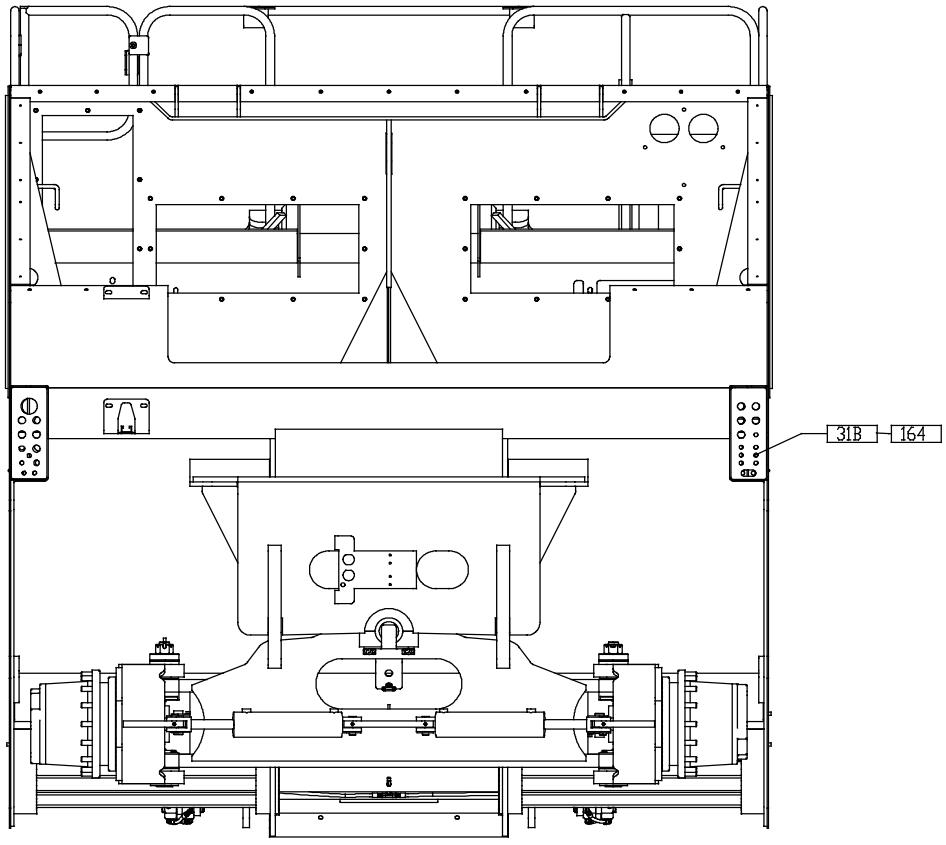




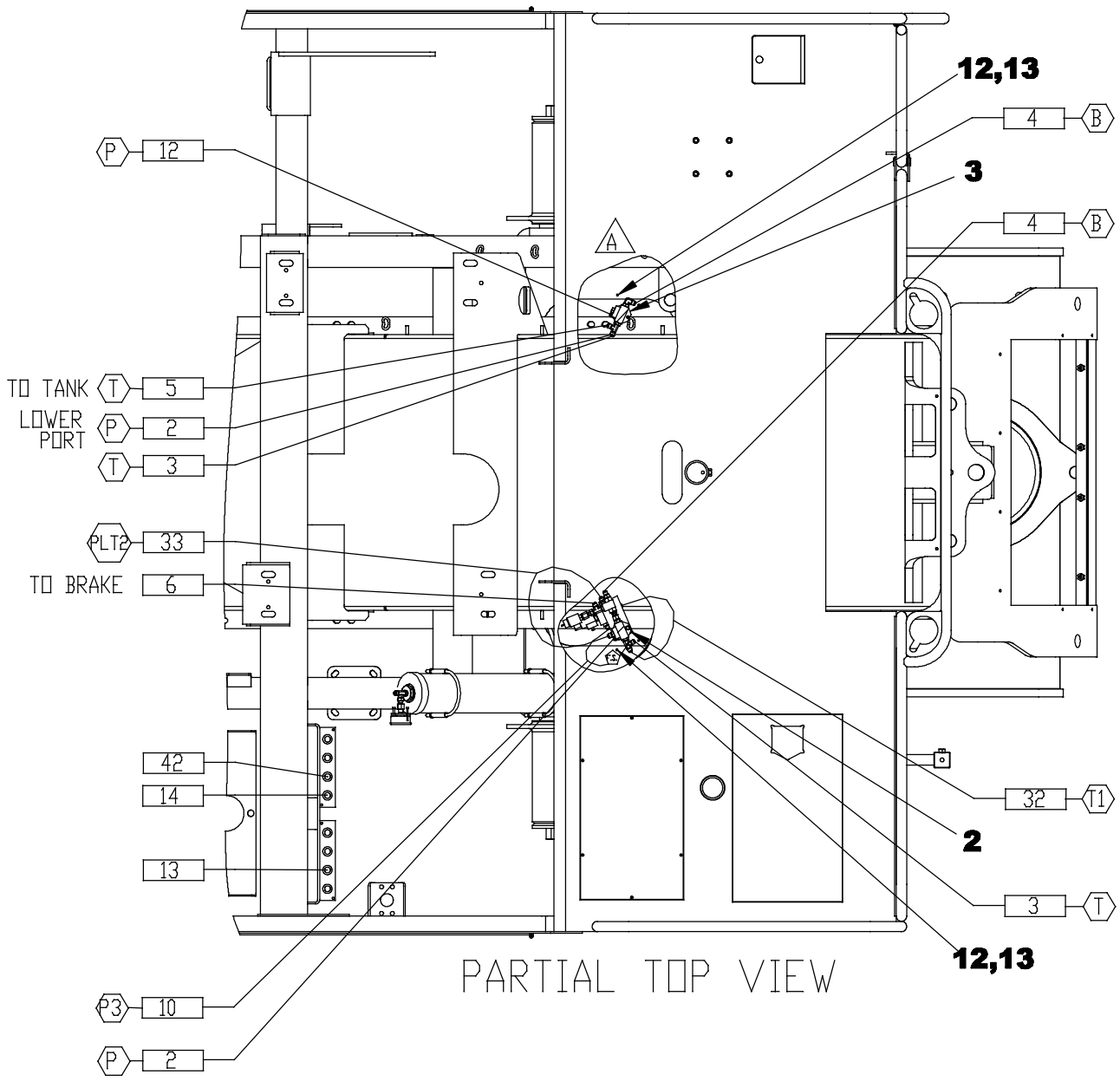


BRAKE CIRCUIT HYDRAULICS
(230754-01)





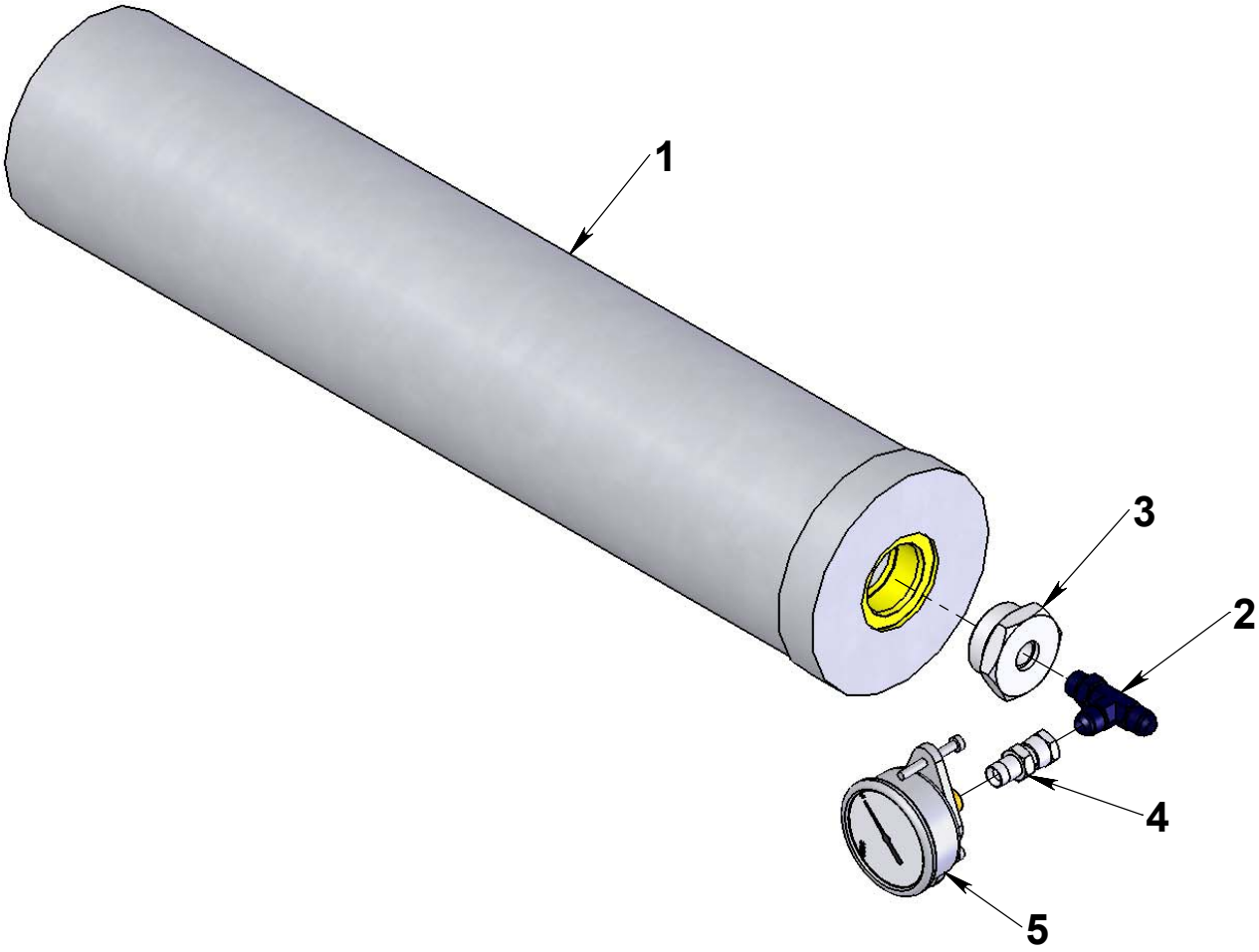
BRAKE CIRCUIT HYDRAULICS
(230754-01)



BRAKE CIRCUIT HYDRAULICS
(230754-01)

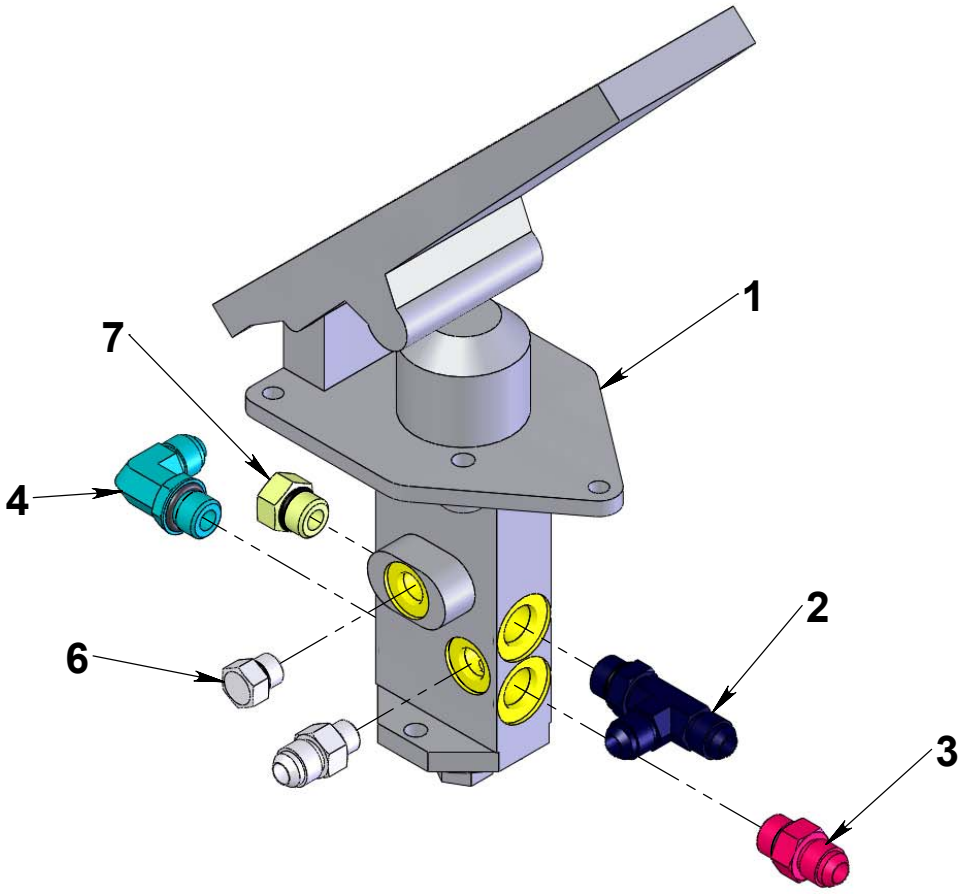
ITEM #	PART NO.	DESCRIPTION	QTY.
1	214884-03	ASSY - BRAKE MANIFOLD	1
2	230674-02	SUB-ASSY - LH BRAKE ACTUATOR VALVE	1
3	202728-03	SUB-ASSY - RH BRAKE ACTUATOR VALVE	1
4	202729-03	SUB-ASSY - BRAKE ACCUMULATOR	1
5	202291-03	ASSY - MANIFOLD HAND PUMP / PILOT VALVE	1
6	123860	BRAKE - DISC CALIPER W/ TUBE	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			
19			
20			

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



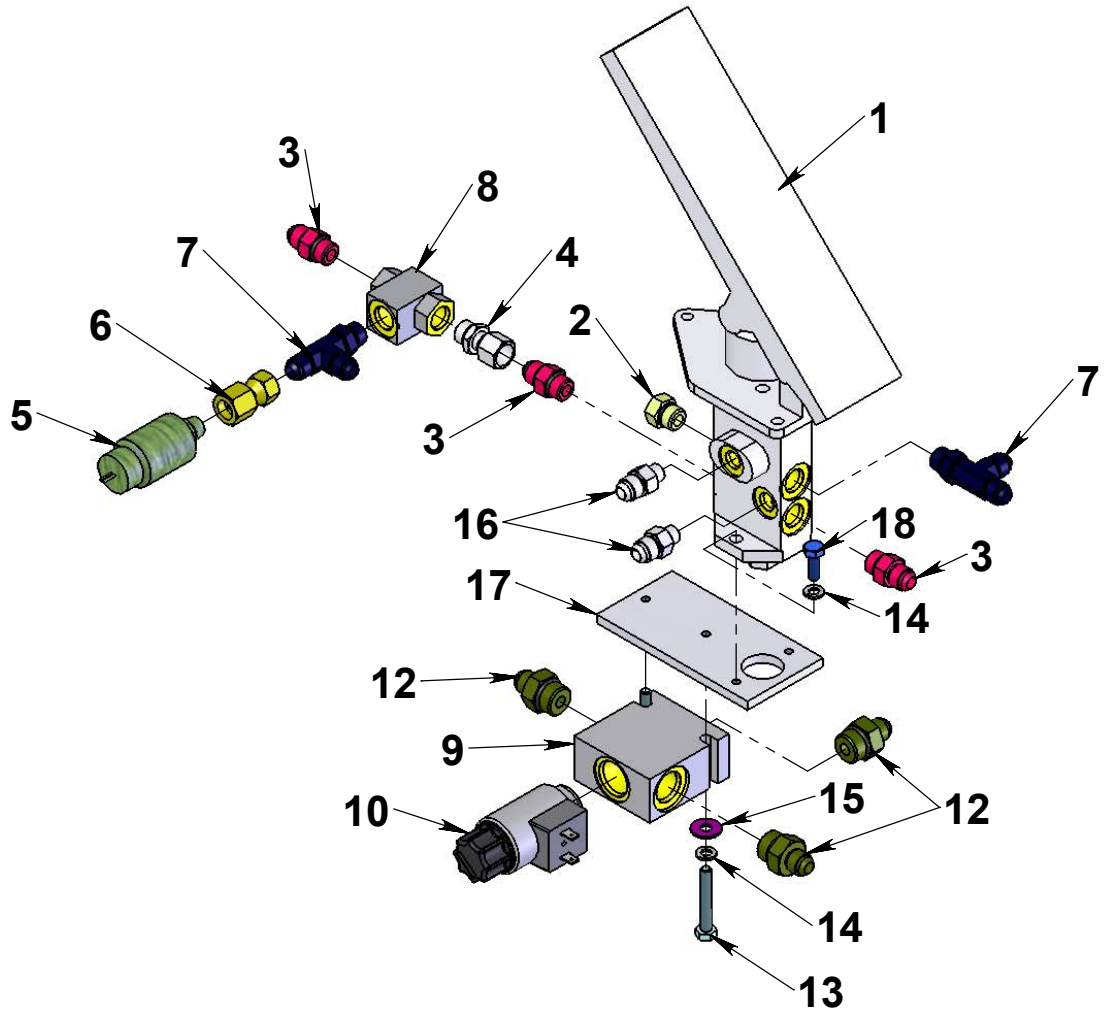
ITEM #	PART #	DESCRIPTION	QTY
1	99389	TANK * TOBUL ACCUMULATOR	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
3	136299-04	FIT * REDUCER 20 SAE MALE-6 SAE FEM	1
4	86622-04	FIT * 1/4 NPT M - 6 JIC FEM SWIVEL	1
5	89059-04	GAUGE * 0-3000 PSI U-N-U-GF	1

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



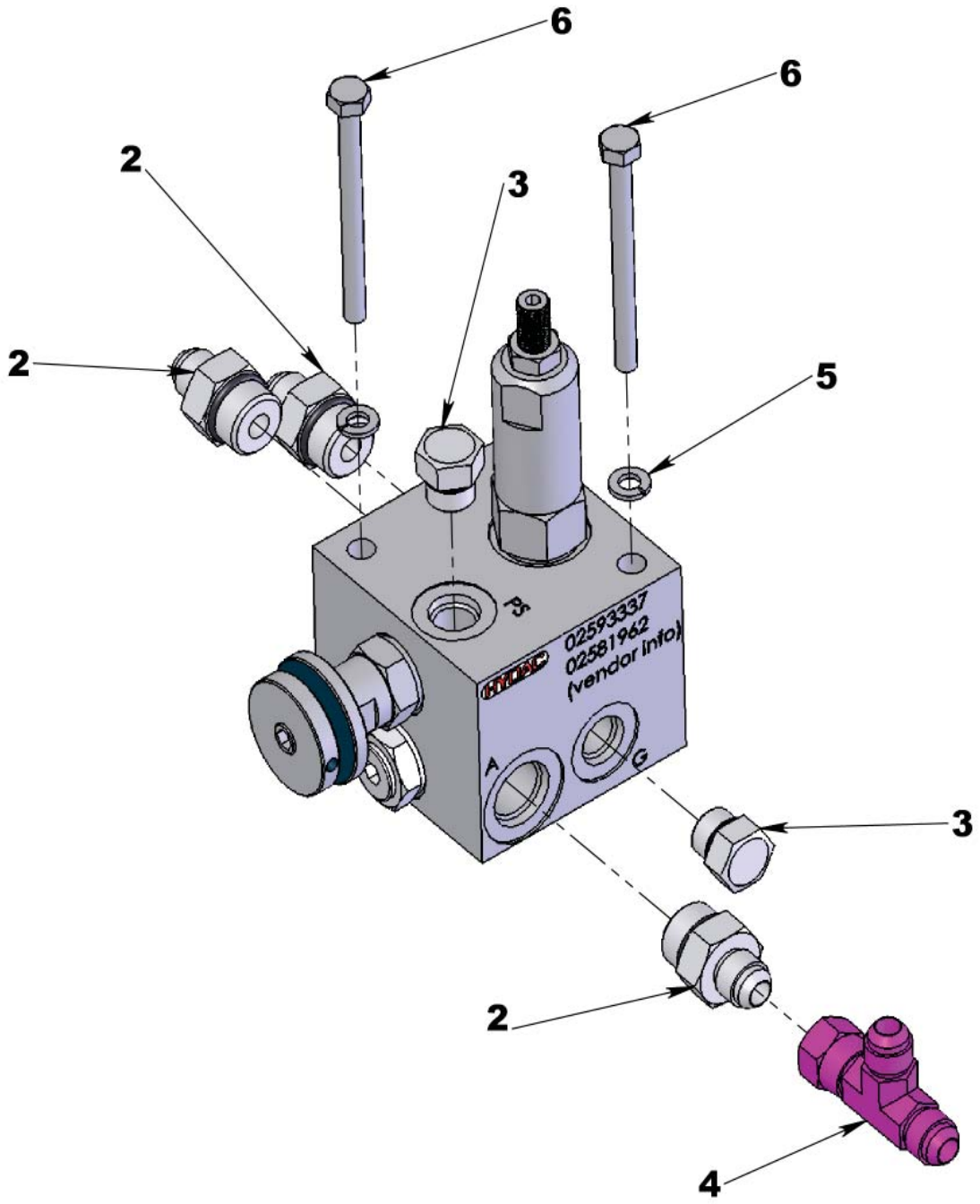
ITEM #	PART #	DESCRIPTION	QTY
1	99365	VALVE * ACTUATOR HYD. POWER BRAKE	1
2	91665-04	FIT ~ RUN TEE 6 JIC M - 6 SAE M	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	1
4	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	1
5	122167	FIT * 6 JIC - 4 SAE ST	1
6	89897-04	FIT * PLUG 4 SAE	1
7	84635-04	FIT * PLUG 6 SAE	1

ASSEMBLY-LH BRAKE ACTUATOR VALVE (230674-02)



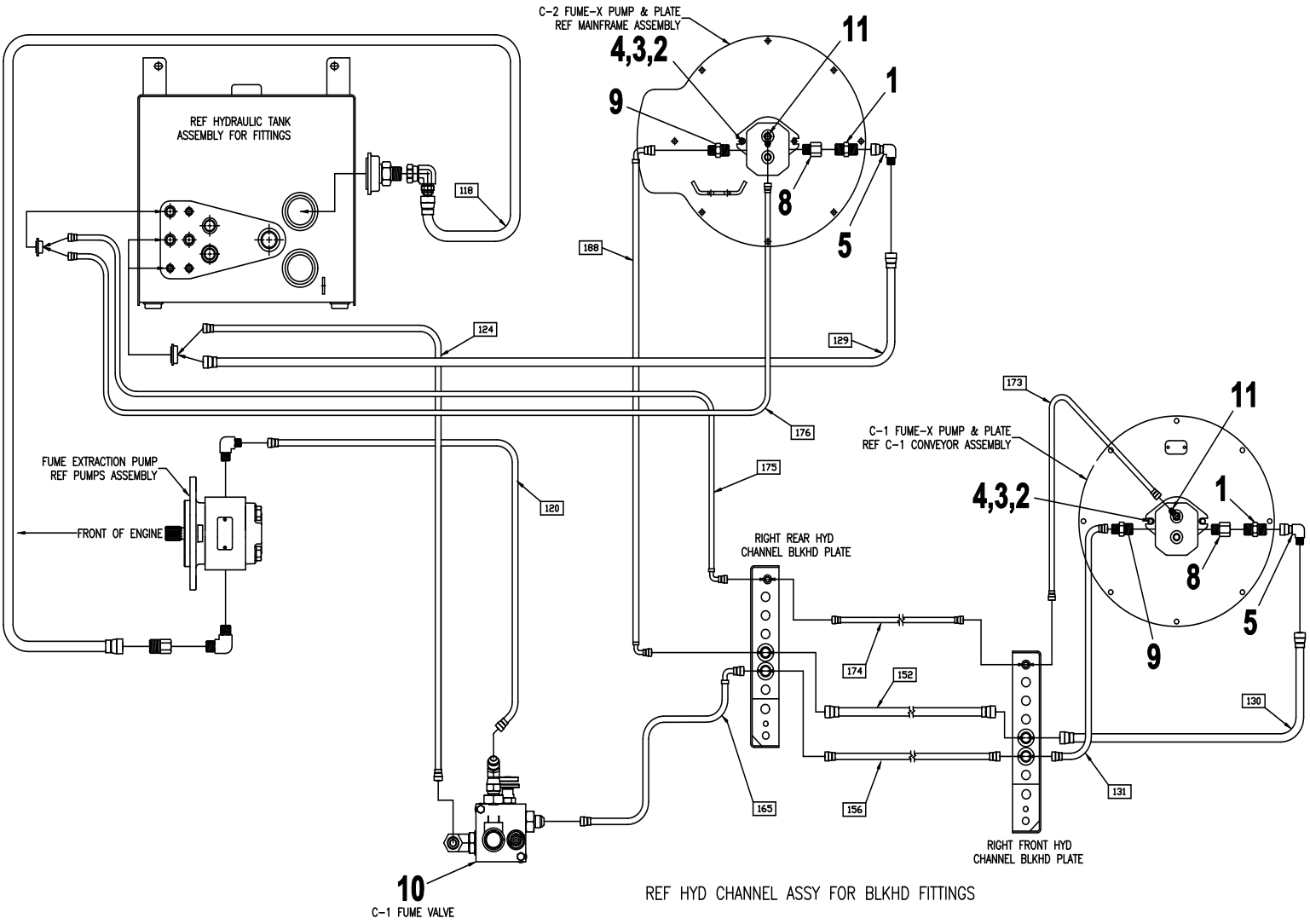
ITEM #	PART #	DESCRIPTION	QTY
1	99365	VALVE * ACTUATOR HYD. POWER BRAKE	1
2	84635-04	FIT * PLUG 6 SAE	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	3
4	135923-04	FIT * 6 SAE MALE - 6 JIC FEM SW.STR	1
5	215977-03	ASSY-BRAKE PRESSURE SWITCH	1
6	132960-04	FIT-CONNECTOR SWIVEL F 6 JIC - 4 NPT	1
7	91665-04	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)



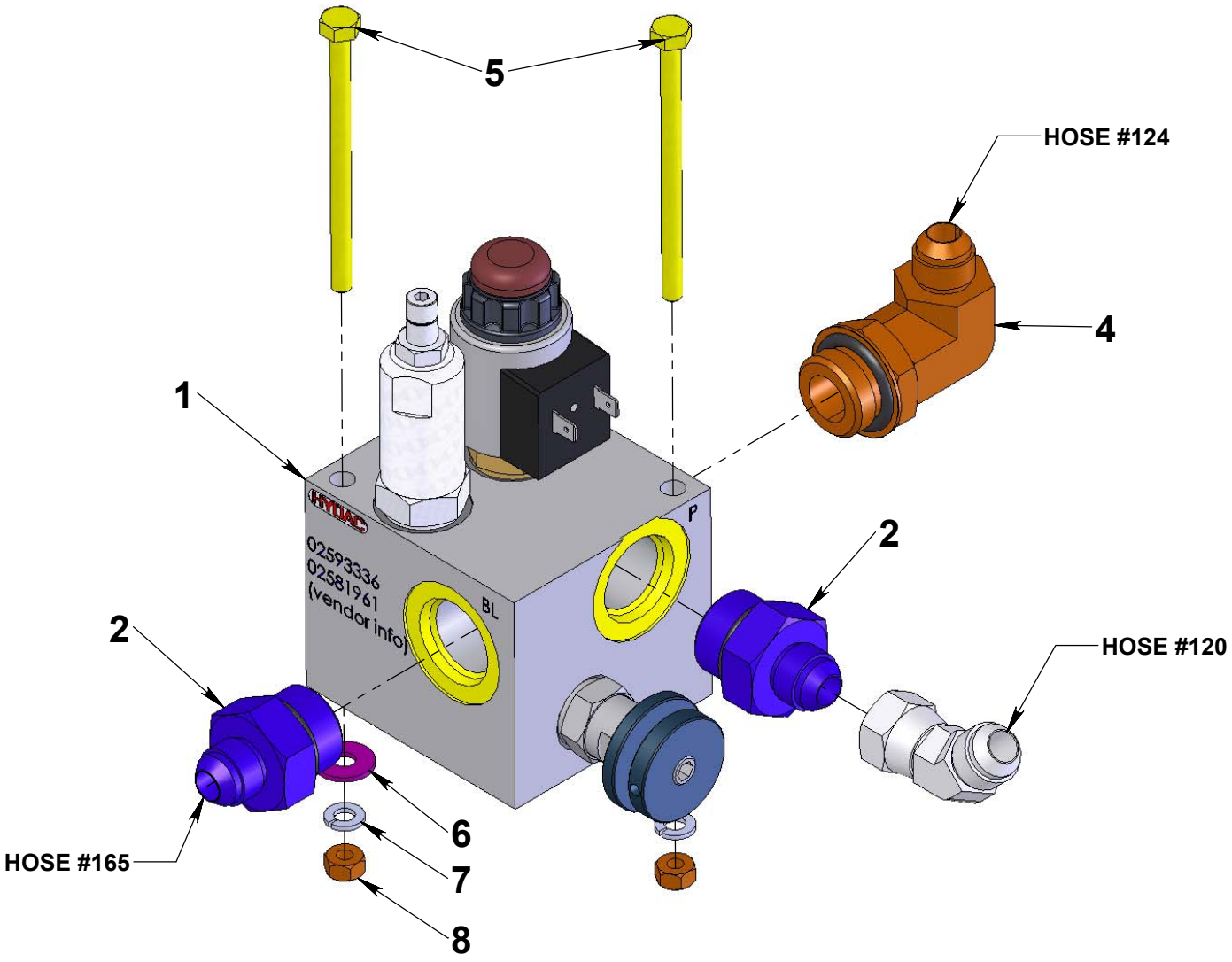
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211542-01	MANIFOLD * BRAKE PRESSURE	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	3
3	84635-04	FIT * PLUG 6 SAE	2
4	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	1
5	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
6	91836-04	BOLT * HEX 1/4"-20 X 3"	2

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

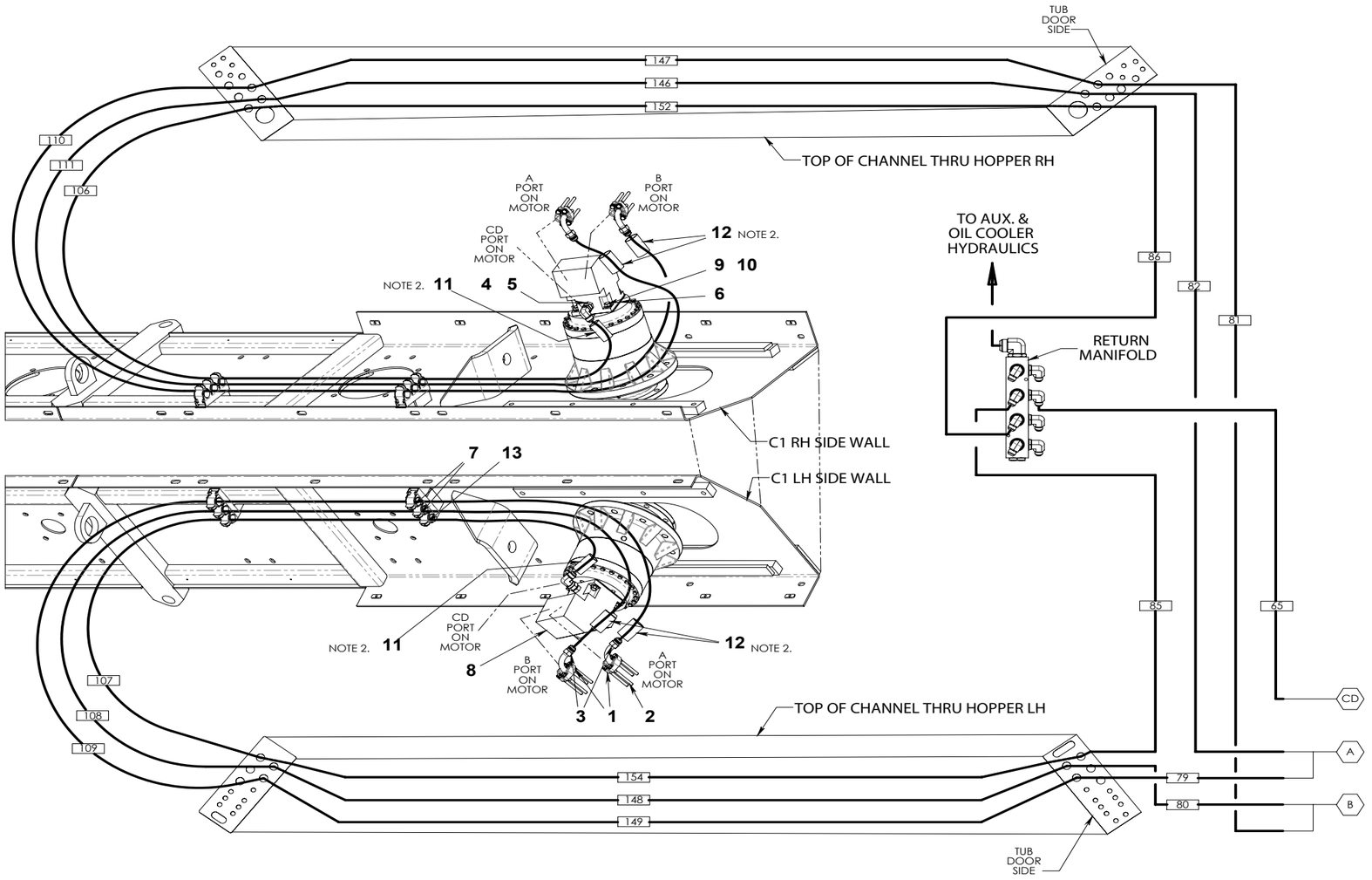
ASSEMBLY-FUME EXTRACTION MANIFOLD (214887-03)

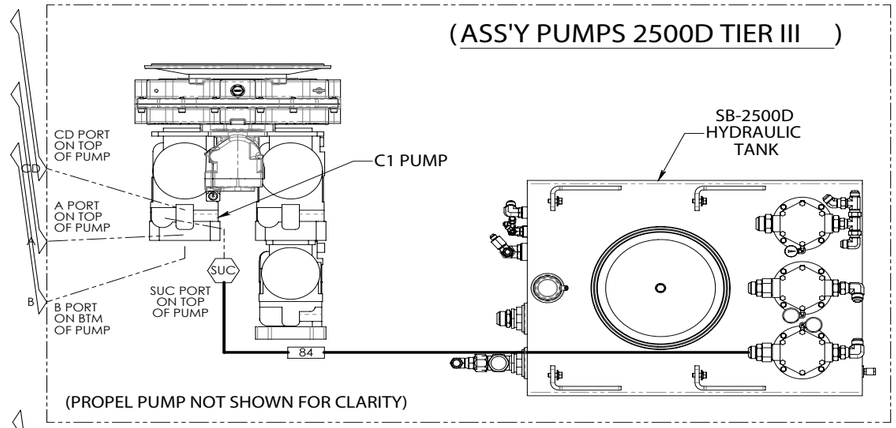


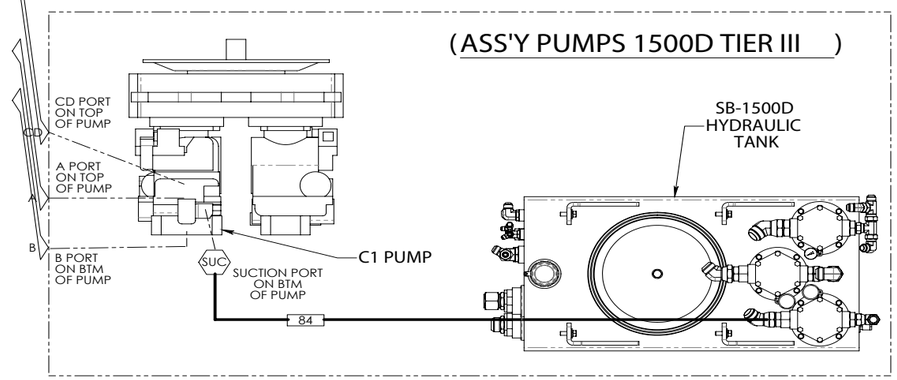
ITEM #	PART #	DESCRIPTION	QTY
1	211541-01	MANIFOLD * FXS	1
2	89616	FIT * 8 JIC X 12 SAE ST. MALE	2
3	85218-04	FIT * ELBOW SWIVEL 8 JIC 45 DEG.	1
4	127491	FITTING * 8 JIC-12 SAE 90	1
5	146144	BOLT * HEX 1/4-20 X 3 3/4 GRADE 8	2
6	84444	WASHER * FLAT 1/4" STEEL	2
7	83065	WASHER ~ LOCK 1/4" SPRING STEEL	2
8	89772	NUT * 1/4"-20 HEX GRADE 8	2

ASSEMBLY- C1 DRIVE HYDRAULICS
(239410-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	86076-04	KIT * FLANGE #12 CODE 62	4
2	89986-04	BOLT * HEX 3/8"-16 X 4 1/2"	16
3	83890-04	FIT * 12 JIC-12 FLG 90 CODE 62	4
4	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	2
5	83705-04	FIT ~ CONNECTOR 12 JIC x 10 SAE M.	2
6	130086-C1	GASKET * FOR AUSCO BRAKE	2
7	11K76	CLAMP * MOUNTING FOR 1 1/4" O.D. HOSE	8
8	142642-04	HYD-MOTOR - 60cc W/ CROSS PORT RELIEF	2
9	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	8
10	05707	WASHER ~ CONICAL HS12 6796 STEEL	8
11	232004-01-11	INSULATION, 1 7/16" I.D. HOSE SLEEVE, Nylon X 48"	2
12	232004-01-12	INSULATION, 1 13/16" I.D. HOSE SLEEVE, Nylon X 48"	4
13	149015	CLAMP * MOUNTING FOR 1 1/8" OD. HOSE	4



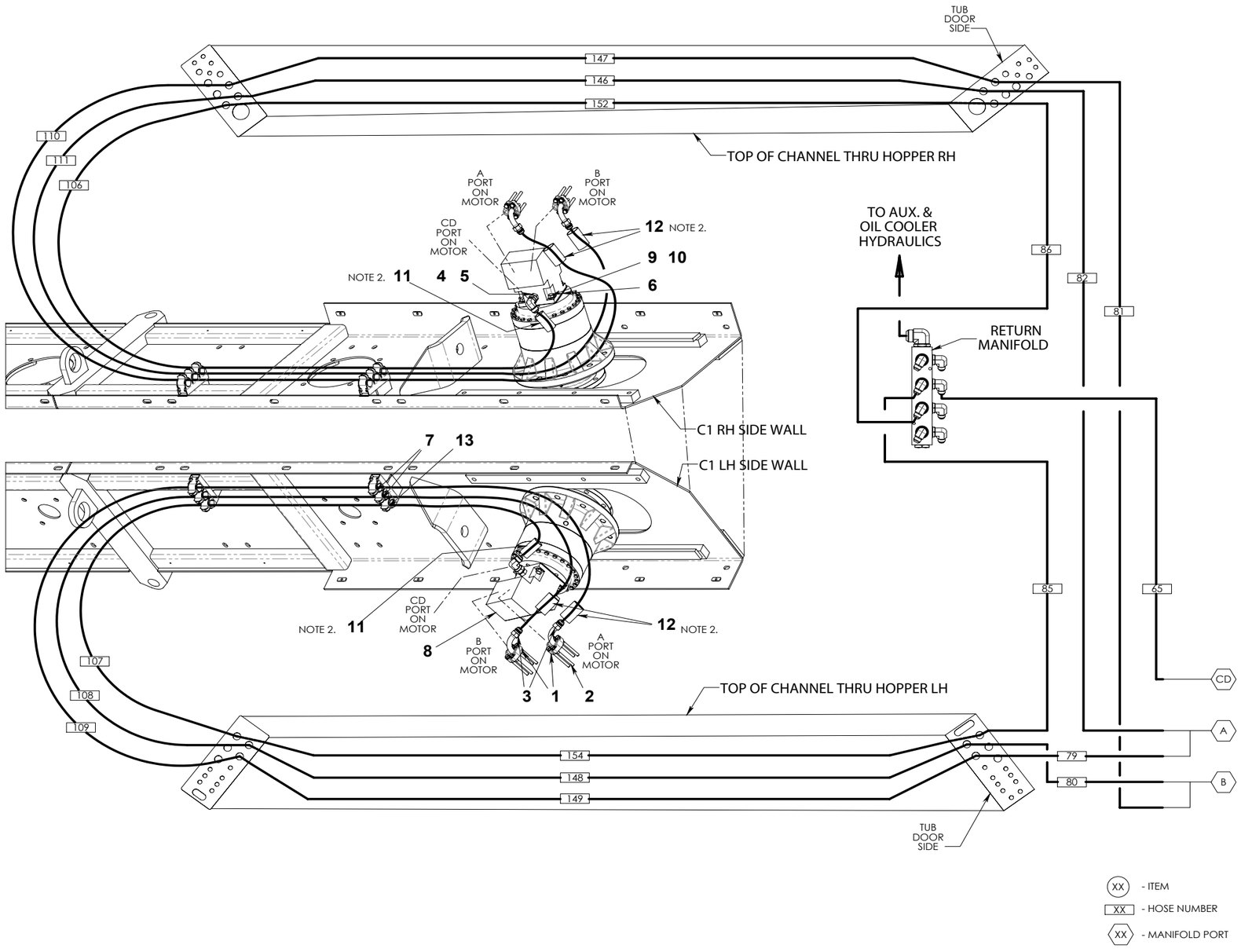


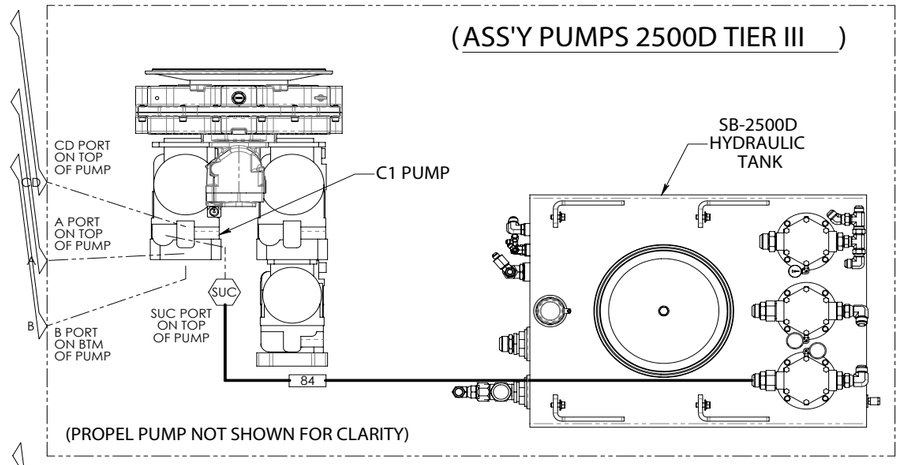


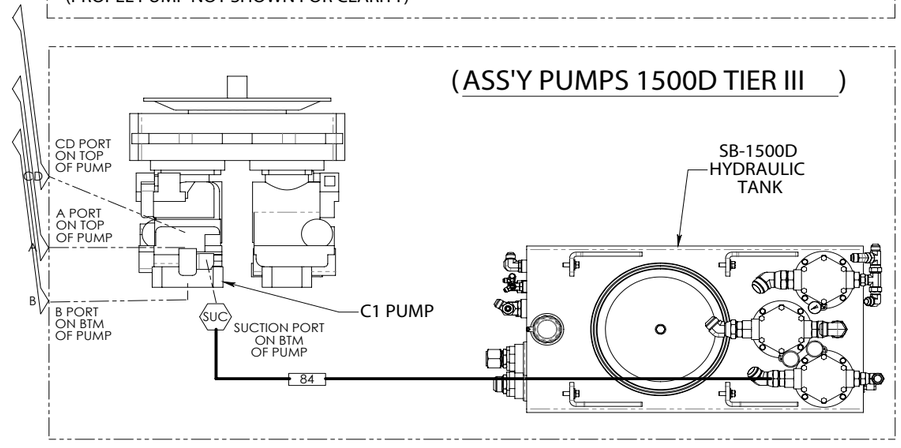
ROADTEC an Astec Industries Company

C-1 HOPPER CONTROL HYDRAULICS
(240910-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	86076-04	KIT * FLANGE #12 CODE 62	4
2	89986-04	BOLT * HEX 3/8"-16 X 4 1/2"	16
3	83890-04	FIT * 12 JIC-12 FLG 90 CODE 62	4
4	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	2
5	83705-04	FIT ~ CONNECTOR 12 JIC x 10 SAE M.	2
6	130086-C1	GASKET * FOR AUSCO BRAKE	2
7	11K76	CLAMP * MOUNTING FOR 1 1/4" O.D. HOSE	8
8	142642-04	HYD-MOTOR - 60cc W/ CROSS PORT RELIEF	2
9	89142	BOLT ~ HEX 1/2"-13UNC x 1 3/4"	8
10	05707	WASHER ~ CONICAL HS12 6796 STEEL	8
11	232004-01-11	INSULATION, 1 7/16" I.D. HOSE SLEEVE, Nylon X 48"	2
12	232004-01-12	INSULATION, 1 13/16" I.D. HOSE SLEEVE, Nylon X 48"	4
13	149015	CLAMP * MOUNTING FOR 1 1/8" OD. HOSE	4

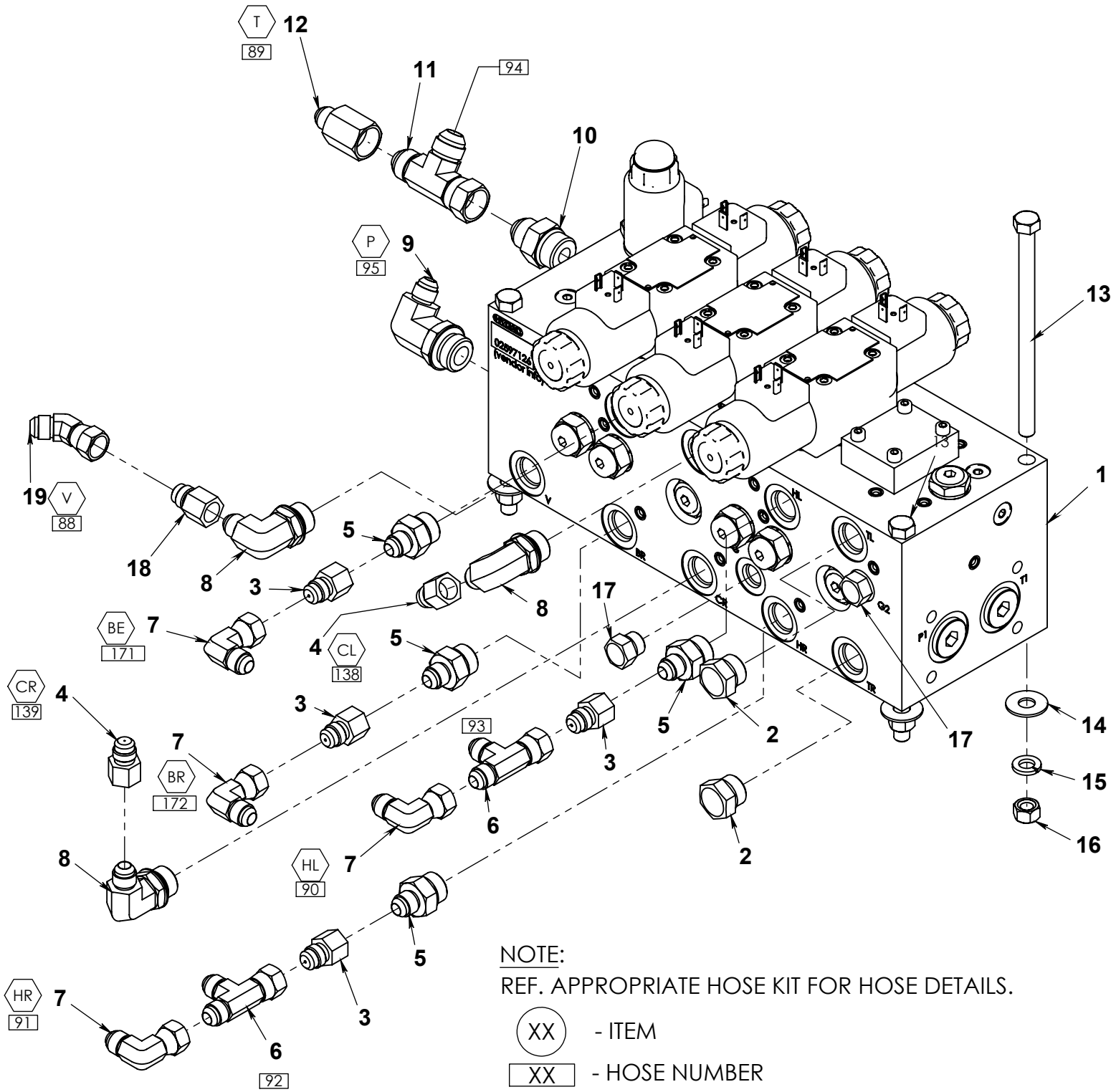






ROADTEC an Astec Industries Company

C1 HOPPER CONTROL MANIFOLD
(240911-02)



NOTE:

REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) - ITEM

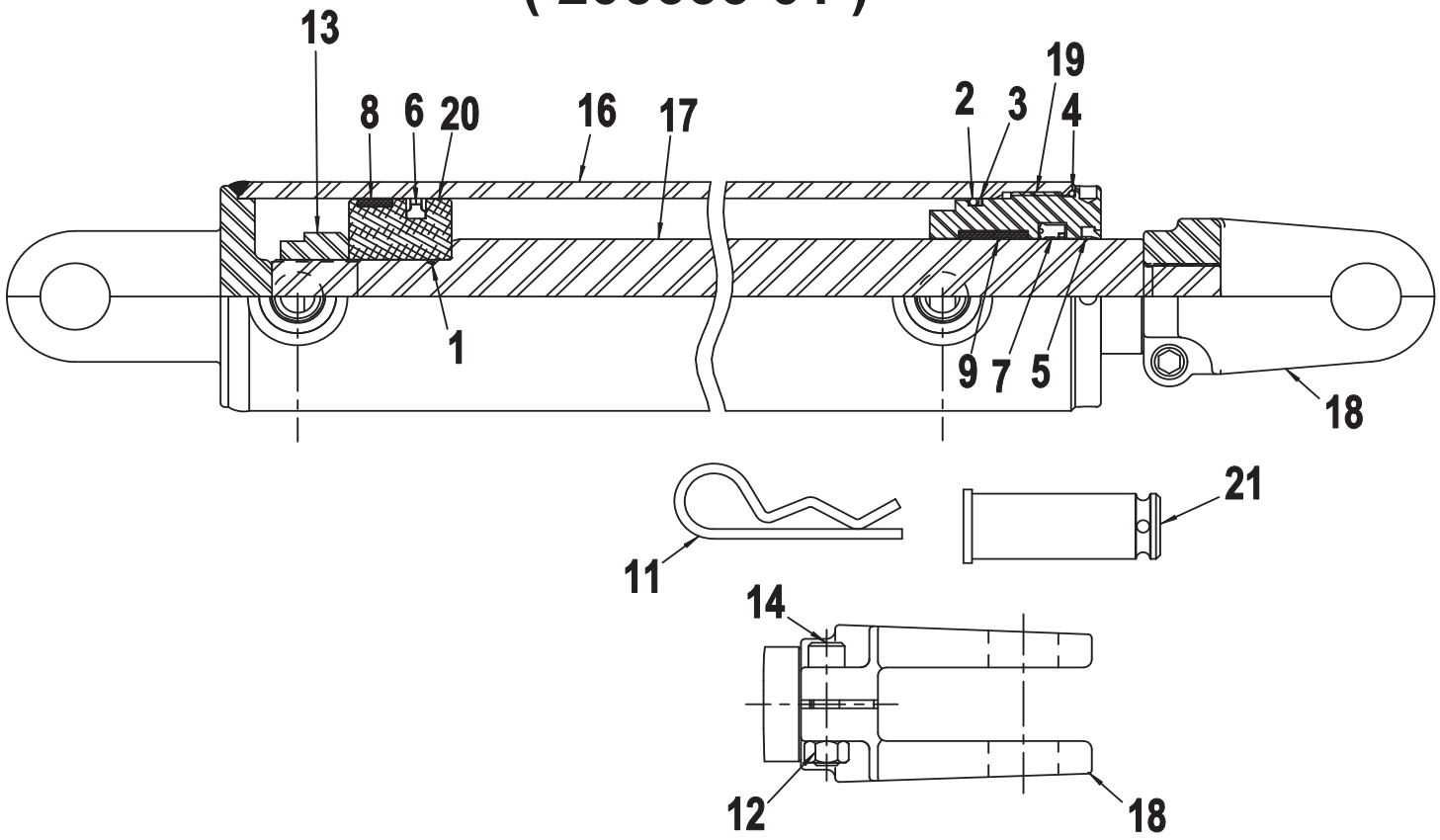
[XX] - HOSE NUMBER

⟨XX⟩ - MANIFOLD PORT

ASSEMBLY-C1 HOPPER CONTROL MANIFOLD (240911-02)

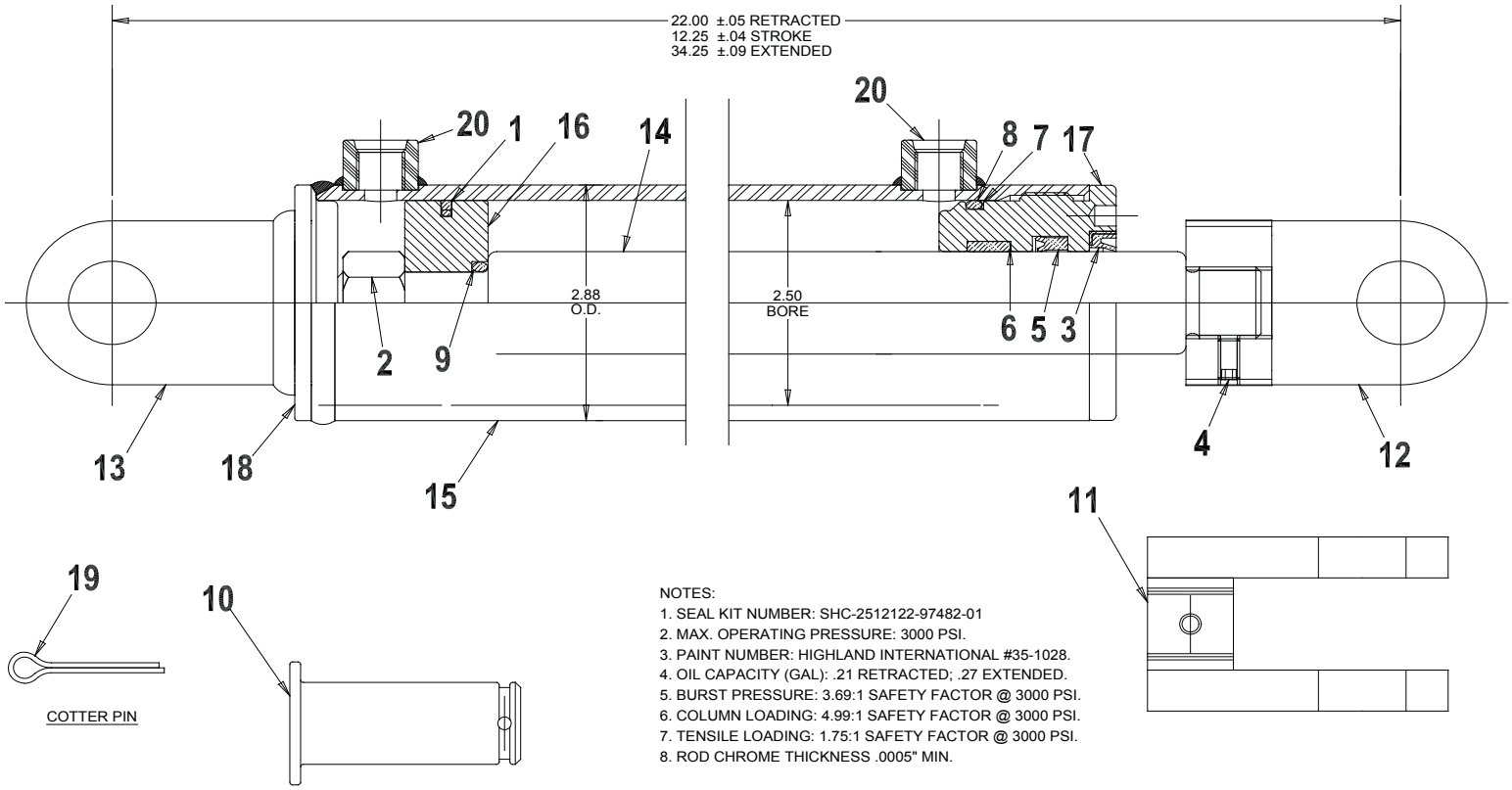
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	238819-01	MANIFOLD * C1 HOPPER CONTROL	1
2	83767-04	FIT ~ PLUG 8 SAE	2
3	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	4
4	135409-04	FIT * REST 6 JIC X 1/32"ORIFICE ST	2
5	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
6	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	2
7	83953-04	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
19	90768-04	FIT * CONNECTOR 6 JIC 45 DEG. SW.	1

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			

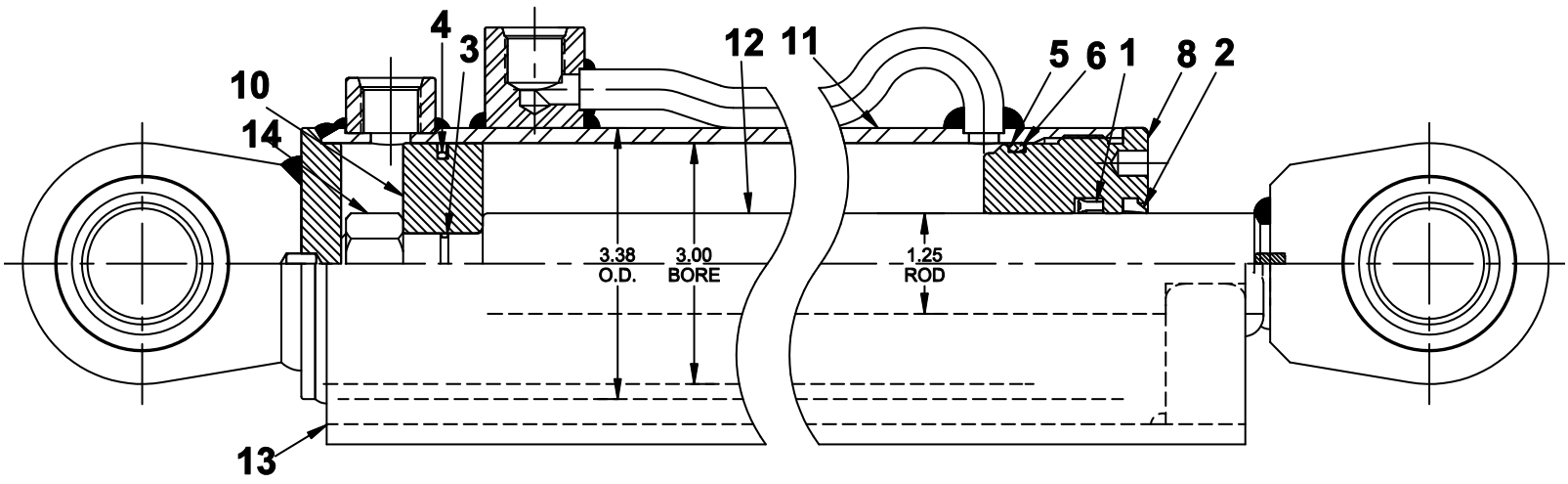
CYLINDER, HOPPER RAISE
(97482-01)

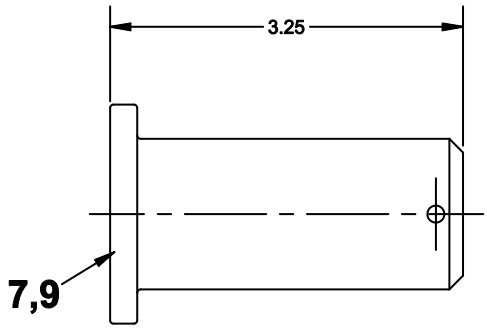


NOTES:
1. SEAL KIT NUMBER: SHC-2512122-97482-01
2. MAX. OPERATING PRESSURE: 3000 PSI.
3. PAINT NUMBER: HIGHLAND INTERNATIONAL #35-1028.
4. OIL CAPACITY (GAL): .21 RETRACTED; .27 EXTENDED.
5. BURST PRESSURE: 3.69:1 SAFETY FACTOR @ 3000 PSI.
6. COLUMN LOADING: 4.99:1 SAFETY FACTOR @ 3000 PSI.
7. TENSILE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

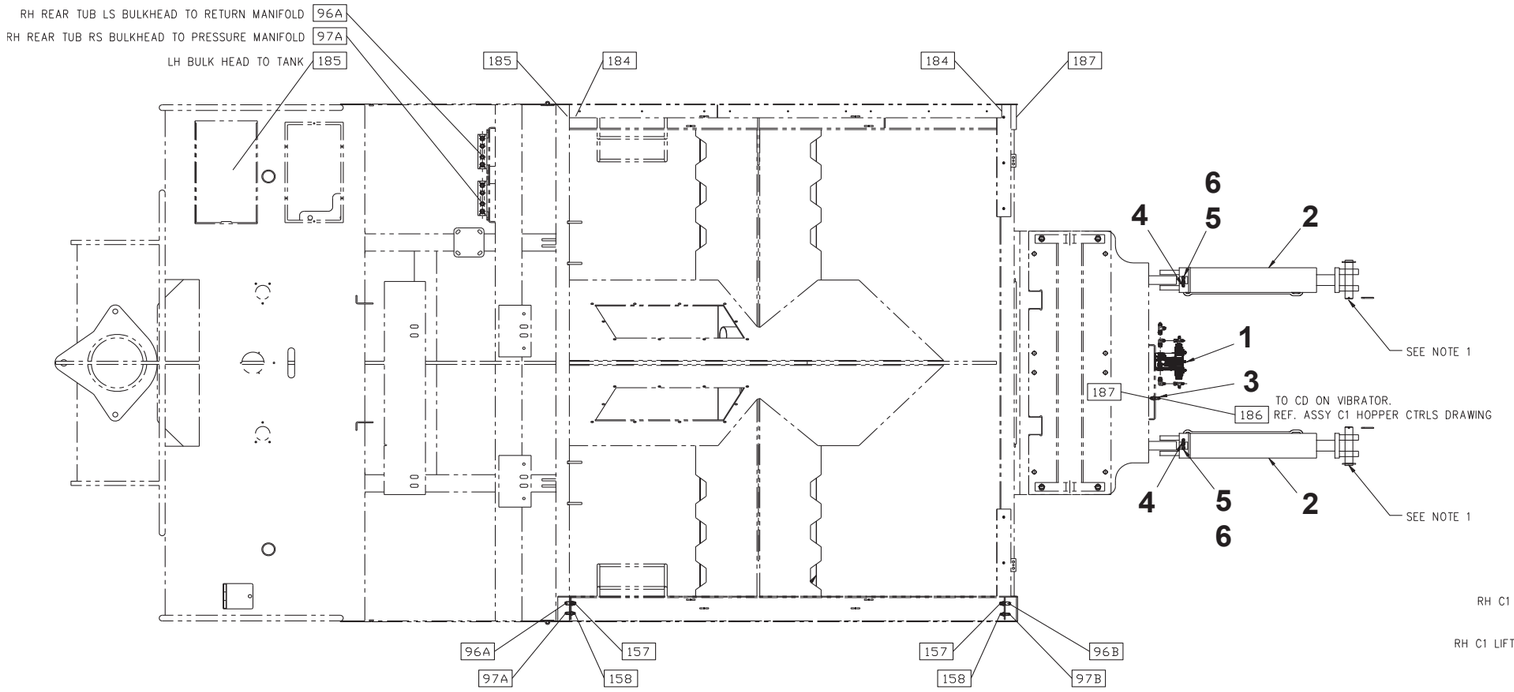


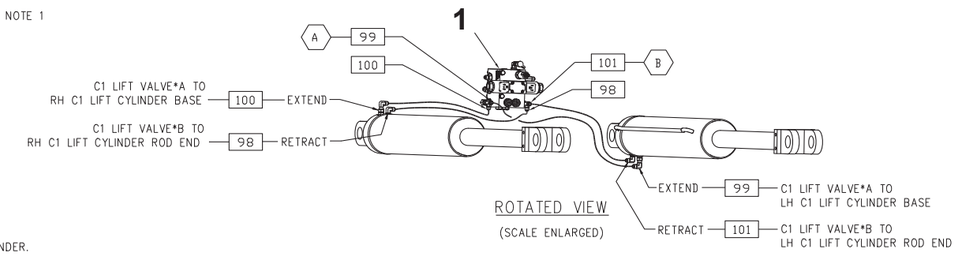


ITEM #	PART NO.	DESCRIPTION	QTY.
1	215523-01-C9	POLY PAK	1
2	215523-01-C10	WIPER	1
3	215523-01-C11	O-RING	1
4	215523-01-C12	PISTON SEAL	1
5	215523-01-C13	O-RING	1
6	215523-01-C14	BACK-UP	1
7	215523-01-C2	COTTER PIN	2
8	215523-01-C3	HEAD	1
9	215523-01-C4	CLEVIS PIN	2
10	215523-01-C5	PISTON	1
11	215523-01-C6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

C1 RAISE / LOWER HYDRAULICS
(240908-01)

ITEM	IDENT	DESCRIPTION	QTY
1	240909-03	ASSEMBLY-C1 RAISE/LOWER MANIFOLD	1
2	207380-01	CYLINDER * 5" BORE X 22" STROKE	2
3	83475-04	FIT ~ 6 JIC X 6 JIC BULKHEAD	1
4	83734-04	FIT ~ 6 JIC X 6 SAE 90	2
5	83735-04	FIT ~ 6 JIC X 6 SAE STRAIGHT	2
6	83953-04	FIT ~ 6 JIC SWIVEL 90	2





ROTATED VIEW

(SCALE ENLARGED)

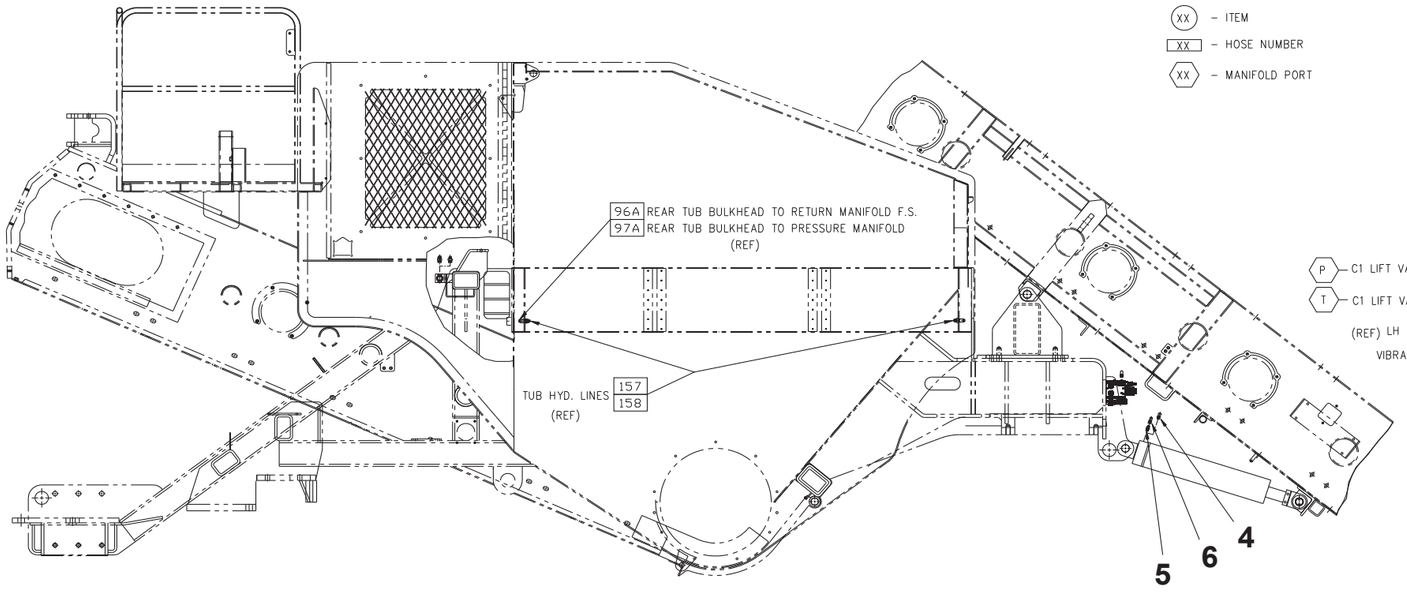
SHOP NOTE:
1.) PINS ARE SUPPLIED WITH CYLINDER.

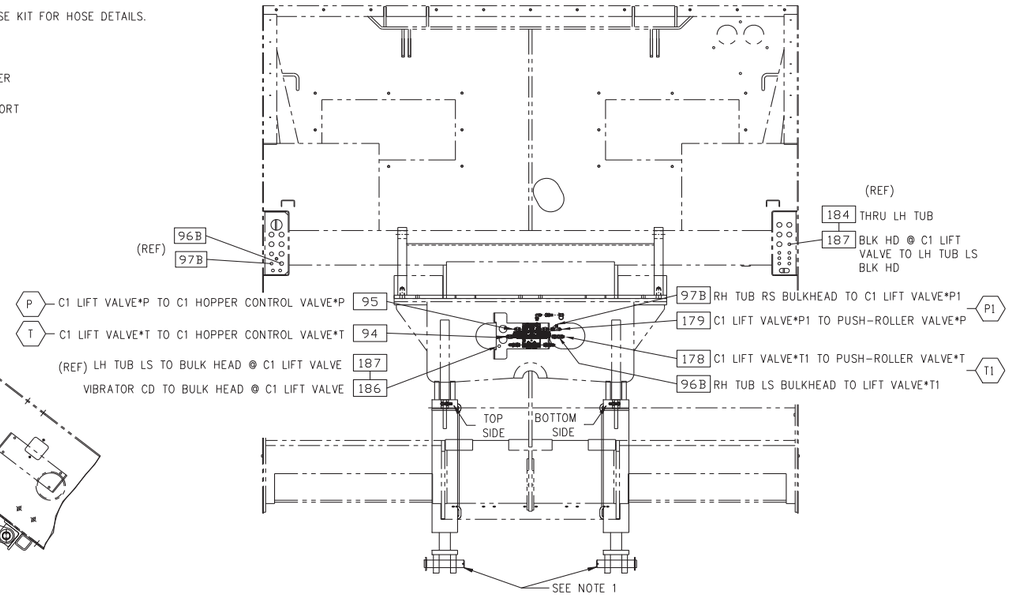
NOTE :
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

(XX) – ITEM

[XX] – HOSE NUMBER

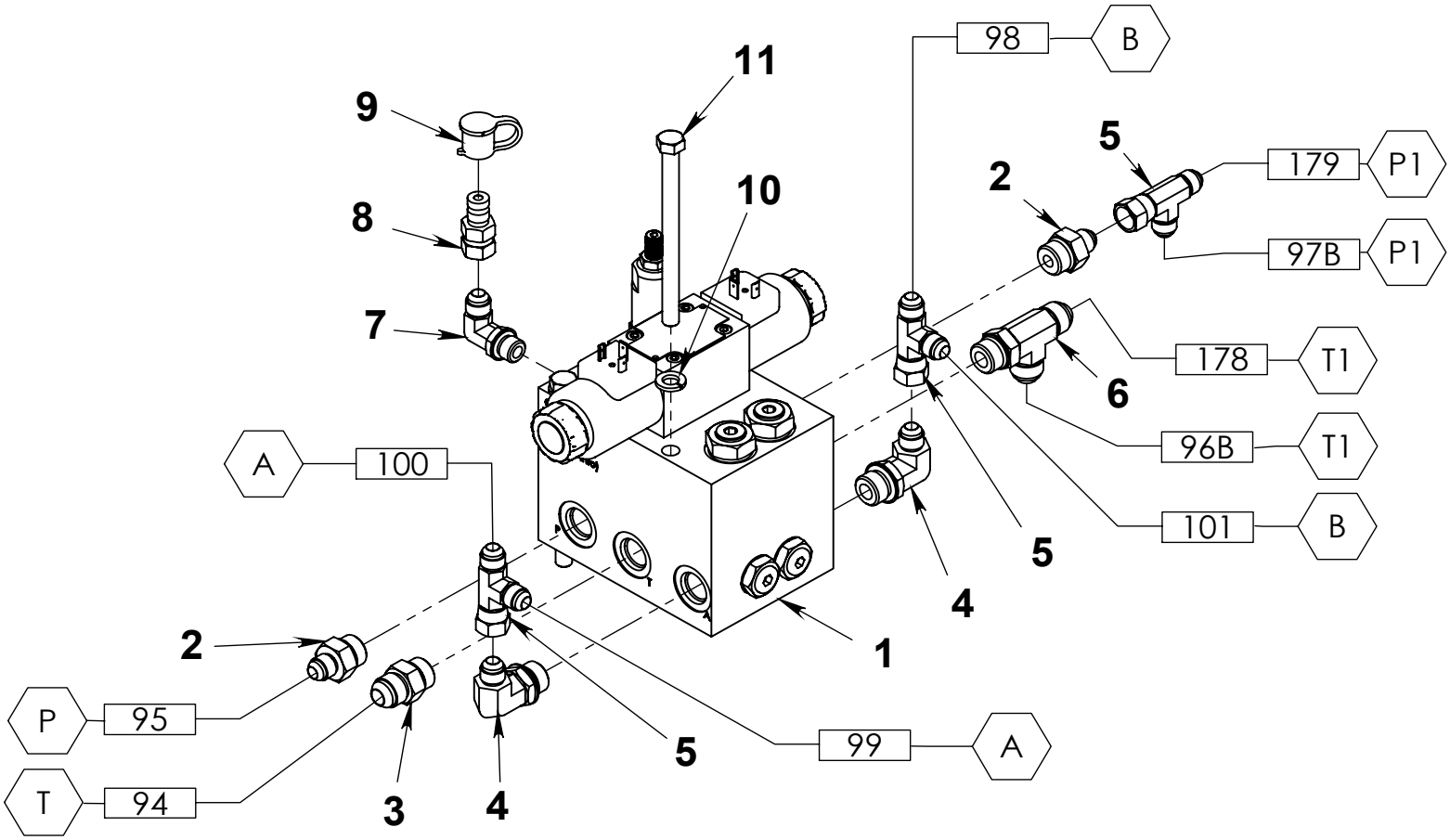
⟨XX⟩ – MANIFOLD PORT





ROADTEC an Astec Industries Company

ASSEMBLY-C1 RAISE/LOWER MANIFOLD (240909-03)



NOTE:

REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

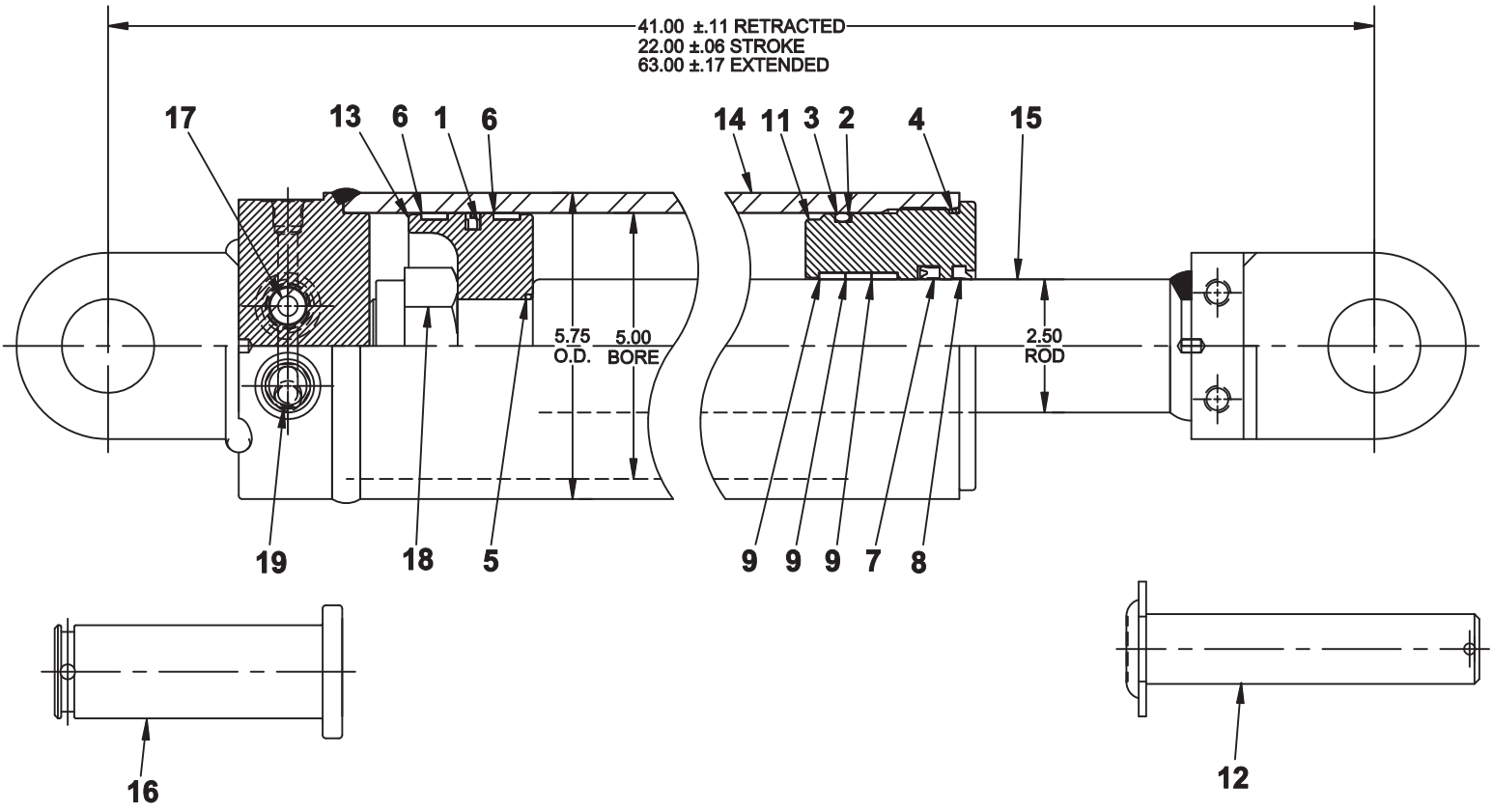
(XX) - ITEM

[XX] - HOSE NUMBER

⬡XX⬡ - MANIFOLD PORT

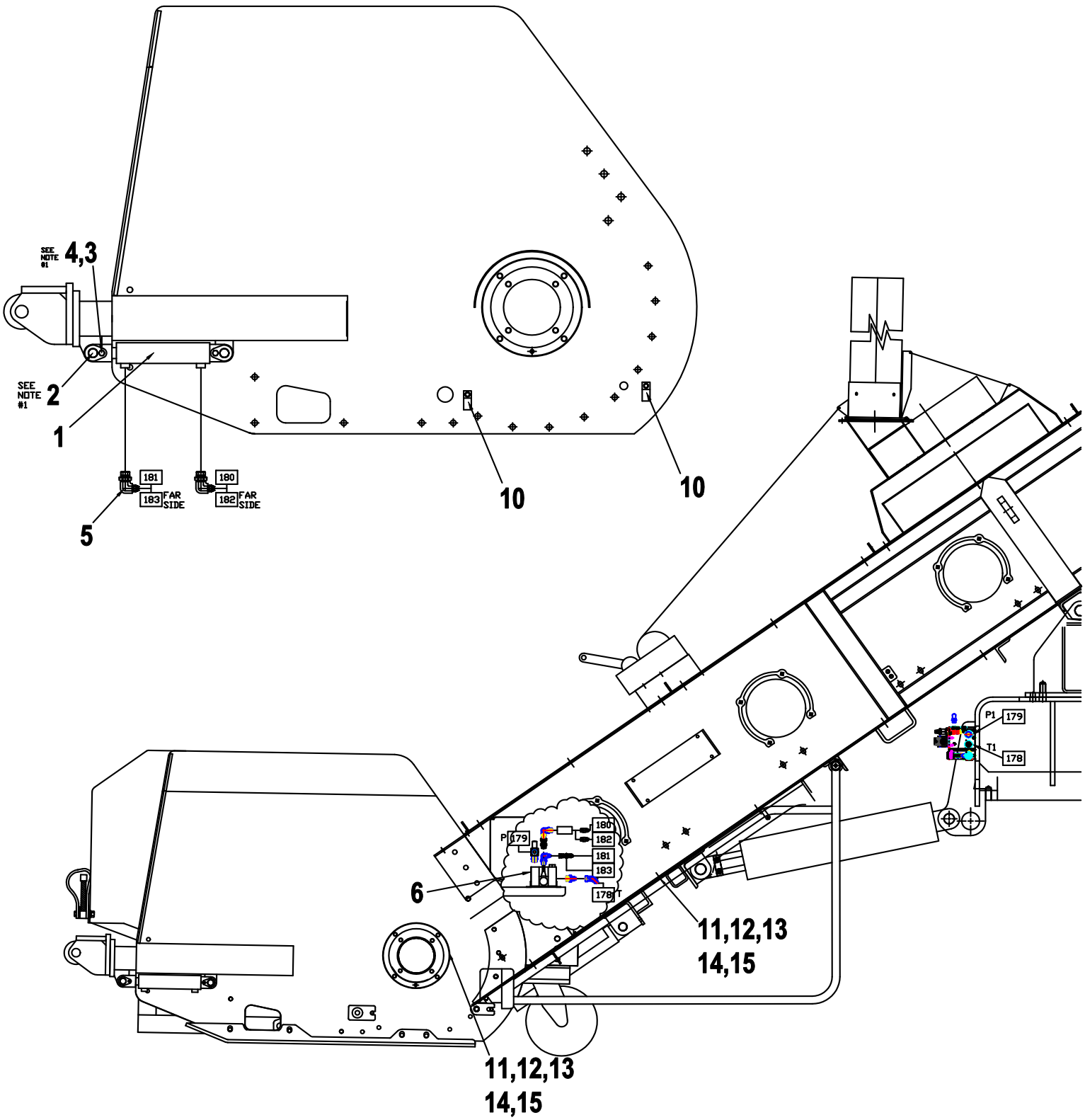
ITEM #	PART #	DESCRIPTION	Default/ QTY
1	238818-01	MANIFOLD * C1 RAISE/LOWER	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	2
3	83459-04	FIT ~ CONNECTOR 8 JIC x 8 SAE MALE	1
4	84426-04	FIT * 6 JIC - 8 SAE 90 DEG. MALE	2
5	84636-04	FIT ~ SWIVEL RUN TEE 6 JIC	3
6	83766-04	FIT * RUN TEE 8 JIC - 8 SAE MALE	1
7	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	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 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

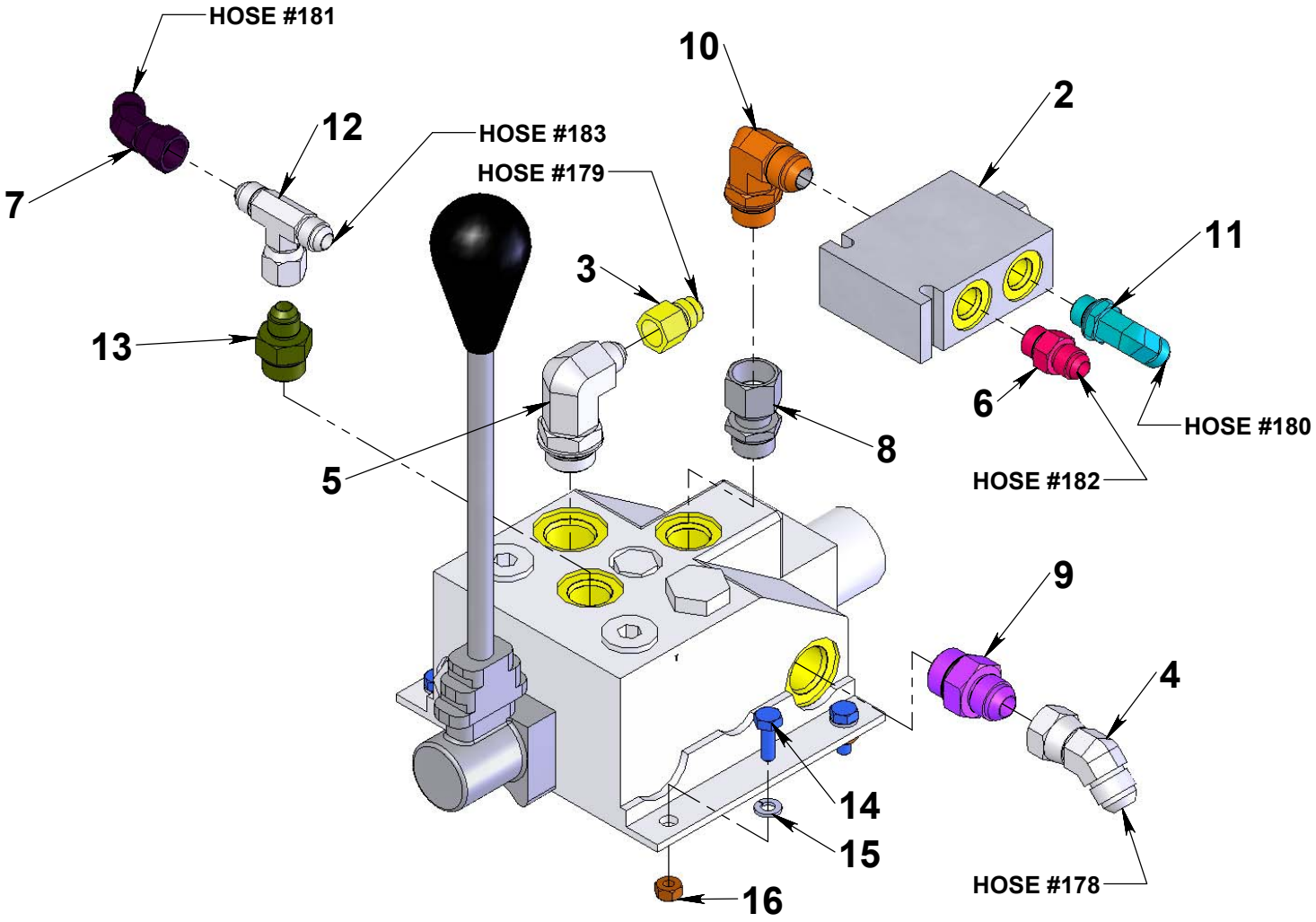
PUSH ROLLER HYDRAULICS
(209080-01)



PUSH ROLLER HYDRAULICS
(209080-01)

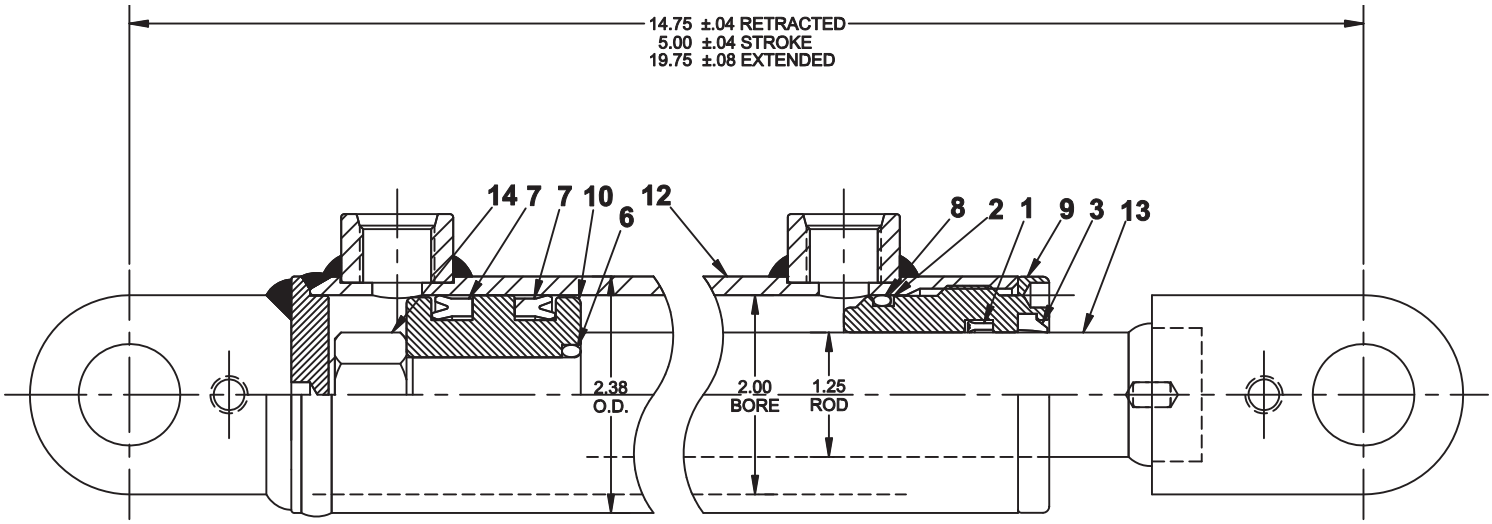
ITEM #	PART NO.	DESCRIPTION	QTY.
1	147955-03	CYLINDER - 2.00 BORE X 5.00 STROKE	2
2			
3			
4			
5	84426-04	FIT - ELBOW 90 DEG - 8 SAE X 6 JIC MALE	4
6	209079-02	PUSH ROLLER MANIFOLD SUB-ASSY.	1
7			
8			
9	99965	CLAMP - 2" RUBBERIZED TUBE	4
10	147412-04	CLAMP - 1 9/16" HOSE X 3/8" BOLT	5
11	89773	HEX BOLT - 1/4-20 X 1" GR8	5
12	84444	FLAT WASHER - 1/4" STEEL	10
13	83065	LOCK WASHER - 1/4" SPRING STEEL	5
14	89772	HEX NUT - 3/8-16 GR8	5
15			

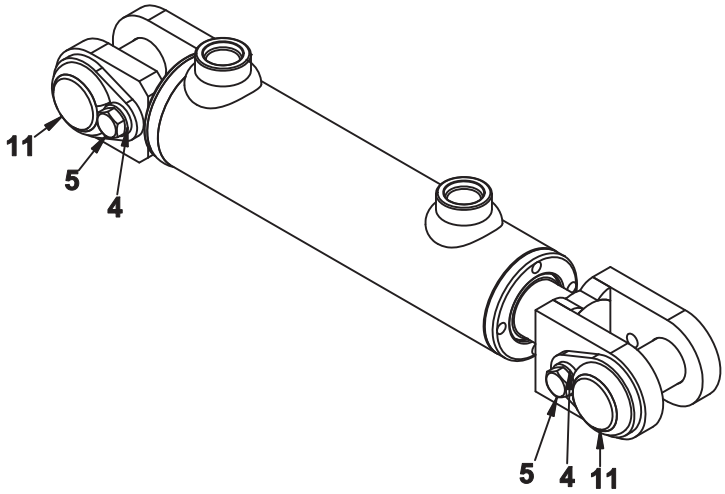
ASSY-PUSH ROLLER MANIFOLD
(209079-02)



ITEM #	PART #	DESCRIPTION	QTY
1	137458-04	VALVE * V10 MANUAL DIR. CONTROL	1
2	200791-03	VALVE * FLOW DIVIDER, 12 GPM	1
3	135775-04	FIT * RESTRICTOR 6 JIC X 1/16 ORIF	1
4	85218-04	FIT * ELBOW SWIVEL 8 JIC 45 DEG.	1
5	92987	FIT ~ 6 JIC x 10 SAE 90 DEG.	1
6	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	1
7	90768-04	FIT * CONNECTOR 6 JIC 45 DEG. SW.	1
8	122168	FIT * 8 SAE M. - 8 JIC F. SWIVEL	1
9	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
10	83460-04	FIT ~ ELBOW 8 JIC M x 8 SAE 90 STEEL	1
11	83734-04	FIT * 6 JIC - 6 SAE 90 DEG.	1
12	89598	FIT * SWIVEL BRANCH TEE 6 JIC	1
13	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	1
14	89988-04	BOLT * HEX 1/4"-20 X 3/4"	4
15	83065	WASHER ~ LOCK 1/4" SPRING STEEL	4
16	89772	NUT * 1/4"-20 HEX GRADE 8	4

CYLINDER, PUSH ROLLER
(147955-03)





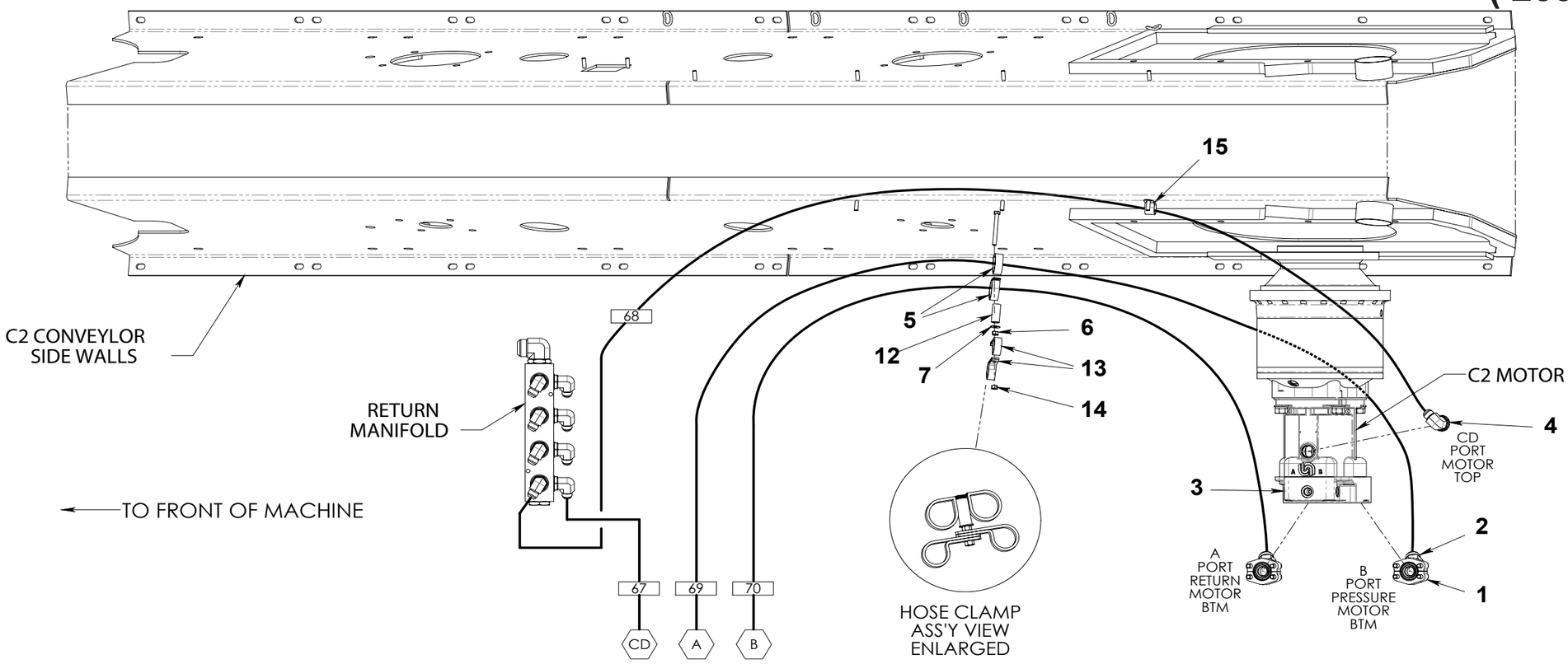
ITEM #	PART NO.	DESCRIPTION	QTY.
1	147955-03-C8	POLY PAK	1
2	147955-03-C9	BACK UP	1
3	147955-03-C10	WIPER	1
4	147955-03-C11	LOCK WASHER	2
5	147955-03-C12	HEX BOLT	2
6	147955-03-C13	O-RING	1
7	147955-03-C14	U-CUP	2
8	147955-03-C15	O-RING	1
9	147955-03-C2	HEAD	1
10	147955-03-C3	PISTON	1
11	147955-03-C4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

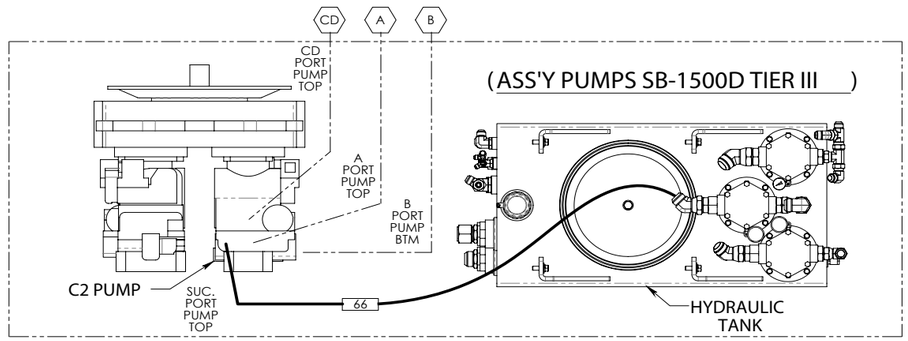
ASSEMBLY- C2 DRIVE HYDRAULICS
(239411-01)

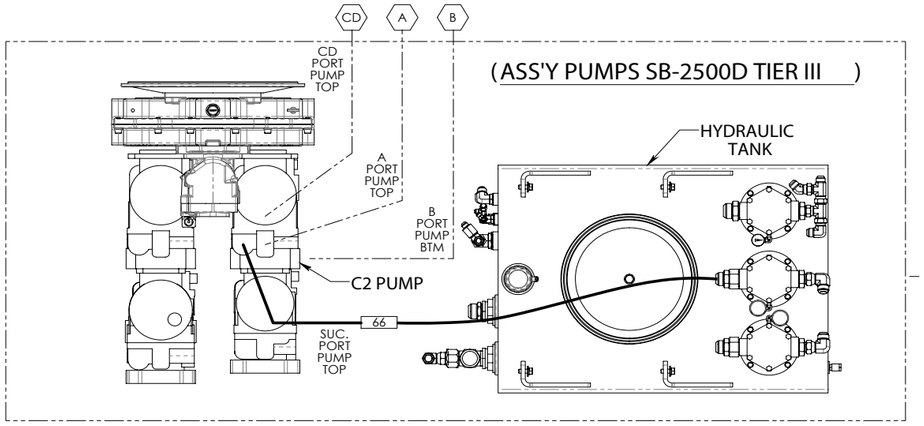
ITEM #	PART #	DESCRIPTION	QTY.
1	96765	KIT * FLANGE #20 CODE 62	2
2	99945	FIT * 20 JIC. X 20 FLG. 45 CODE62	2
3	149224-04	MOTOR * HYD. MOTOR-SERIES 90-130 CC	1
4	85875-04	FIT * ELBOW 12 JIC M - 16 SAE 90	1
5	99965	CLAMP * 2" RUBBERIZED TUBE	2
6	83055	NUT * 3/8-16 HEX GRADE 8	1
7	83757	WASHER ~ FLAT 3/8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

NOTE:
REF. APPROPRIATE HOSEKIT FOR HOSE DETAILS.

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

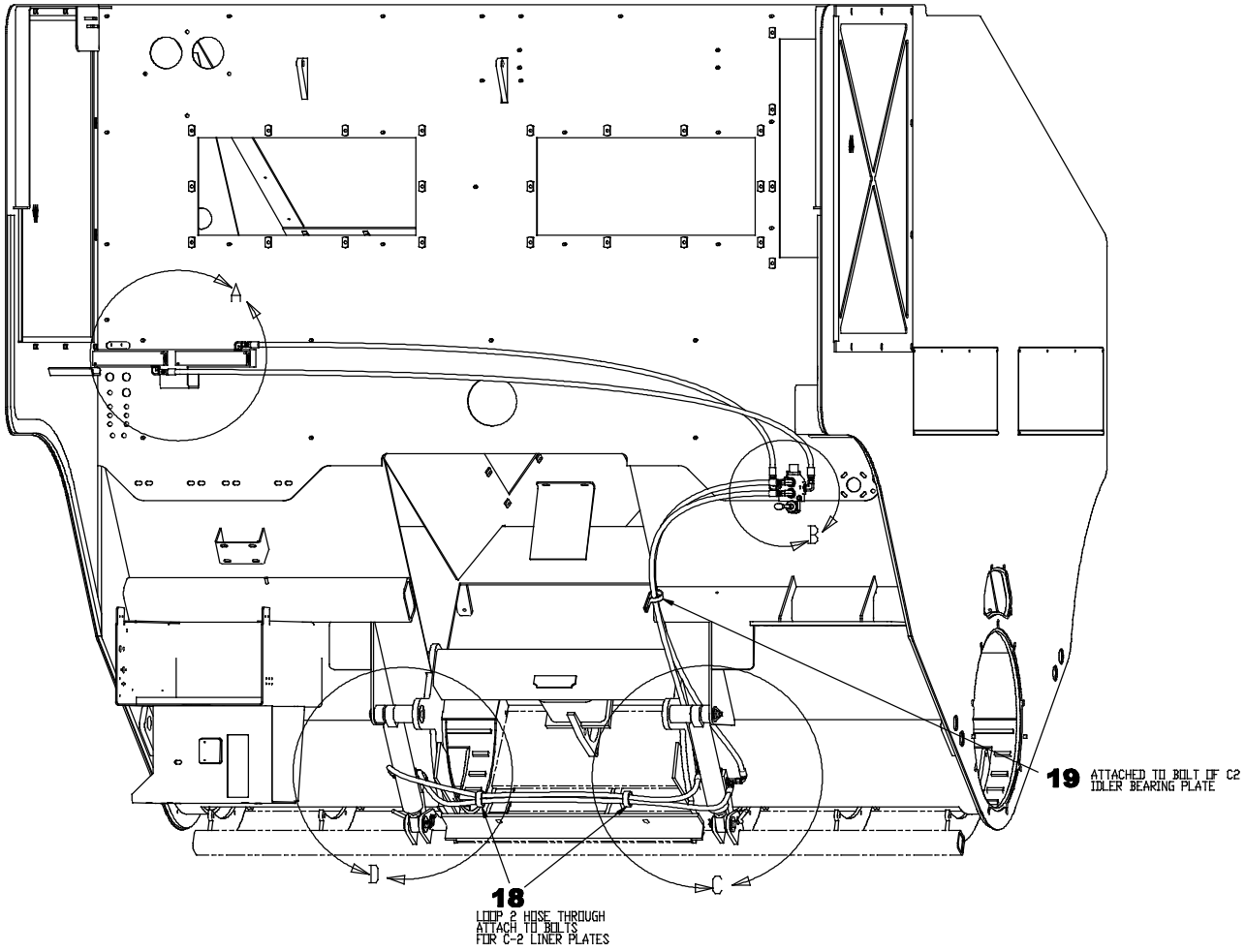


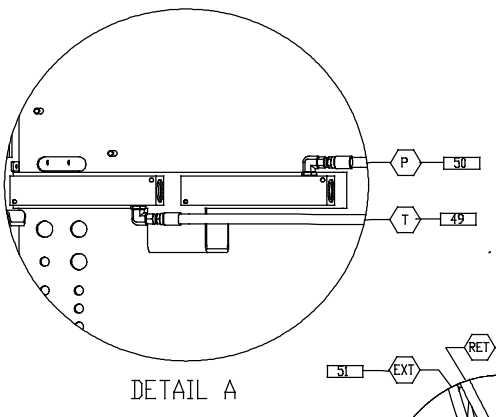


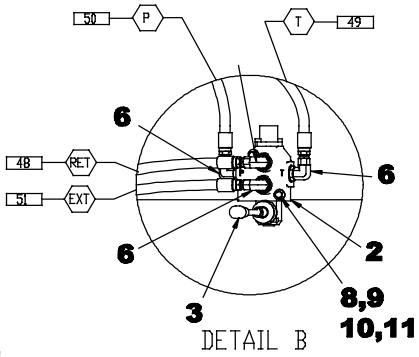


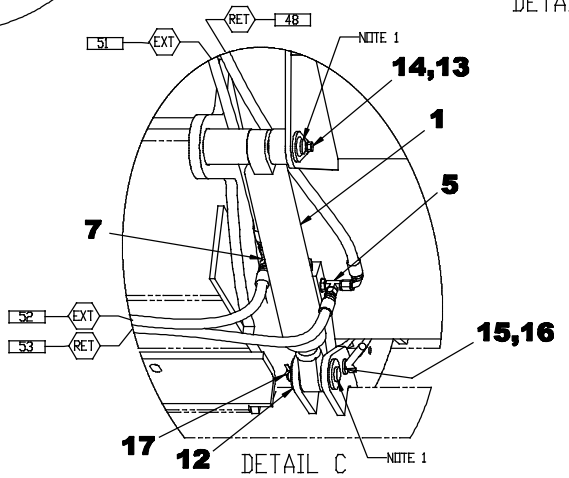
ROADTEC an Astec Industries Company

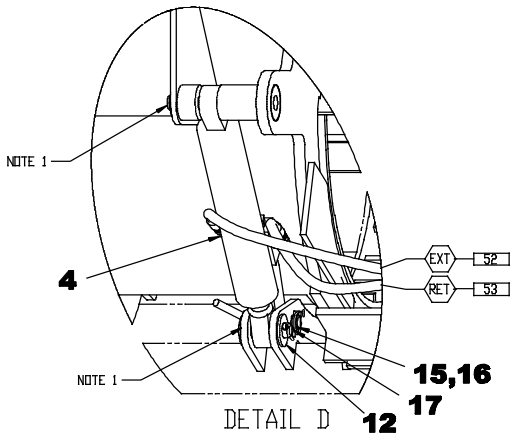
C-2 CLEAN-OUT DOOR HYDRAULICS
(226792-01)







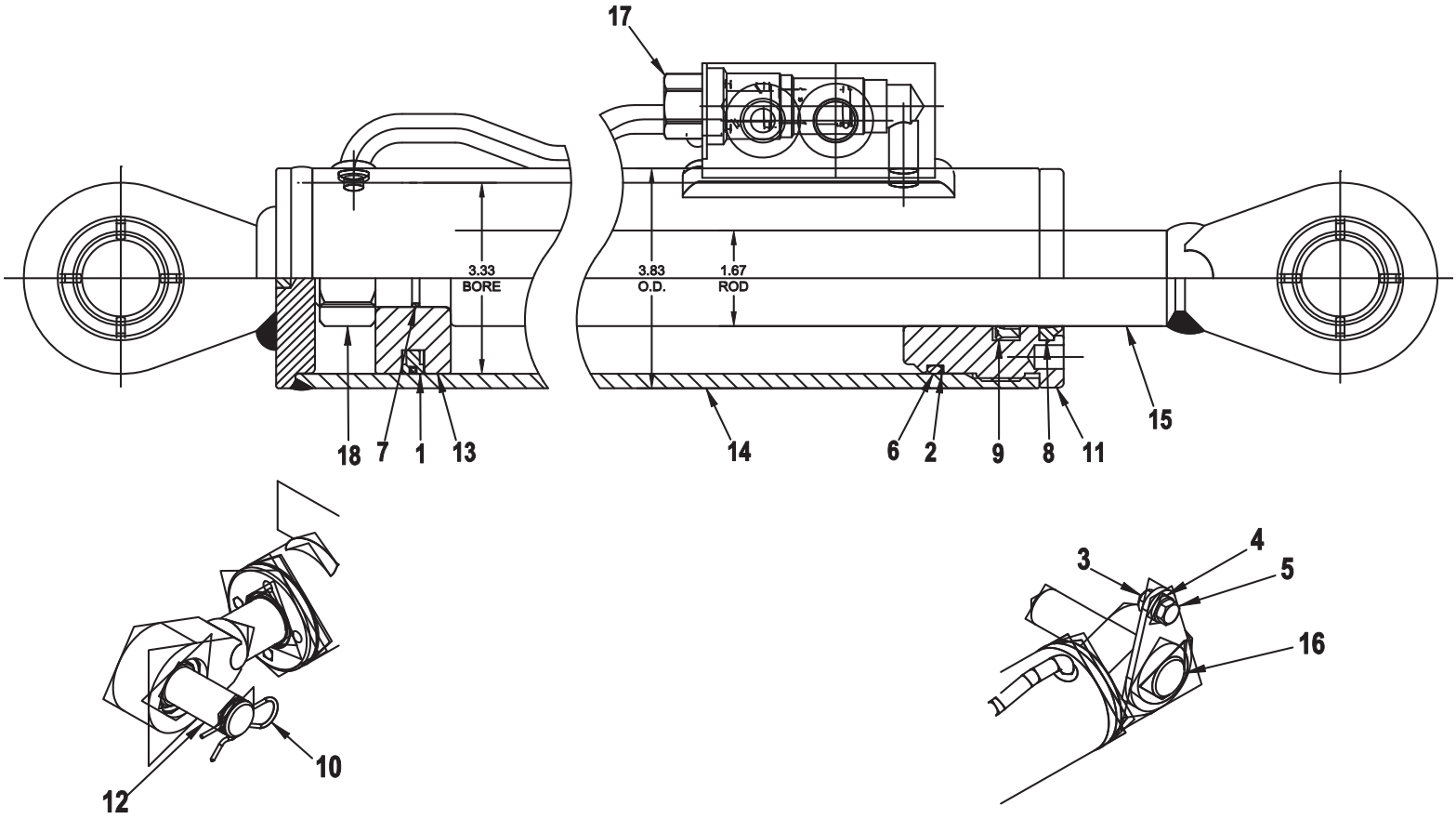




C-2 CLEAN-OUT DOOR HYDRAULICS
(226792-01)

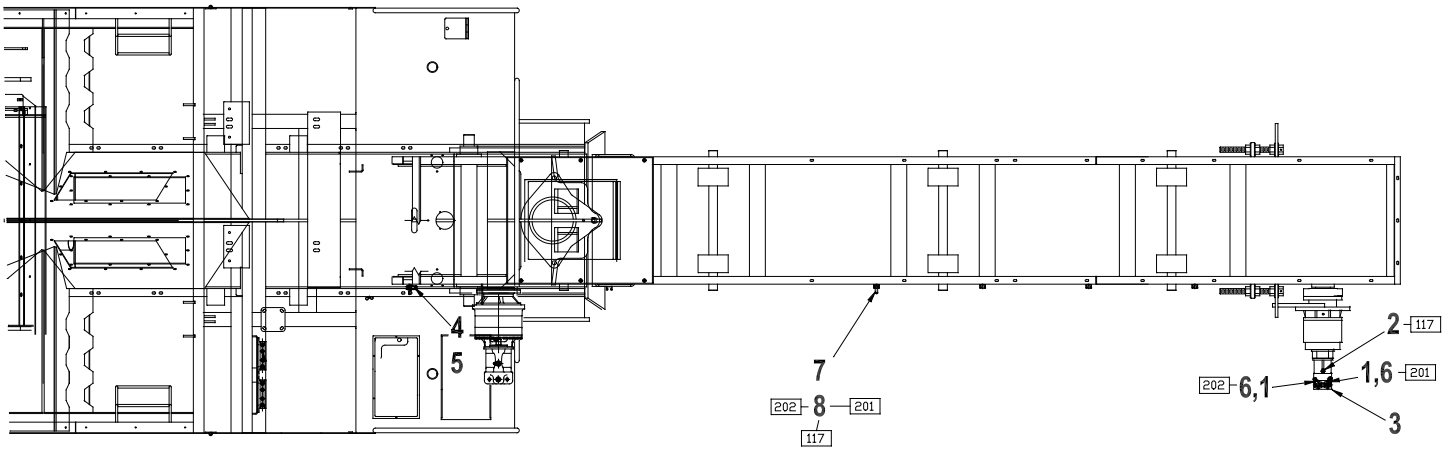
ITEM #	PART NO.	DESCRIPTION	QTY.
1	225738-01	CYL - 2 1/2" BORE X 11" STROKE	2
2	226301-04	VALVE - MANUAL 4 WAY MOTOR SPOOL	1
3	225060-03-C1	CLOSED CENTER - 2 WAY LEVER VALVE HANDLE	1
4	83734-04	FIT - 6 JIC - 6 SAE 90 DEG.	3
5	91665-04	FIT - RUN TEE 6 JIC M - 6 SAE M	1
6	84426-04	FIT - 6 JIC - 8 SAE 90 DEG. MALE	4
7	84636-04	FIT - SWIVEL RUN TEE 6 JIC	1
8	85563-04	HEX BOLT - 1/4-20 X 2 1/2"	2
9	84444	FLAT WASHER - 1/4" STEEL	4
10	89772	HEX NUT - 1/4-20 GR8	2
11	83065	LOCK WASHER - 1/4" SPRING STEEL	2
12	10S89	FLAT WASHER - 1" A325	2
13	83056	LOCK WASHER - 3/8" SPRING STEEL	2
14	84332	HEX BOLT - 3/8-16 X 1"	2
15	121690-03	WLDMT - C2 COD LATCH PIN	2
16	144993-04	PIN - 3/16" LYNCH	2
17	27D66	PIN - COTTER 3/16" X 2"	2
18	99965	CLAMP - 2" RUBBERIZED TUBE	2
19	147412-04	CLAMP - 1 9/16" ID 3/8" BOLT HOLE	1
20			

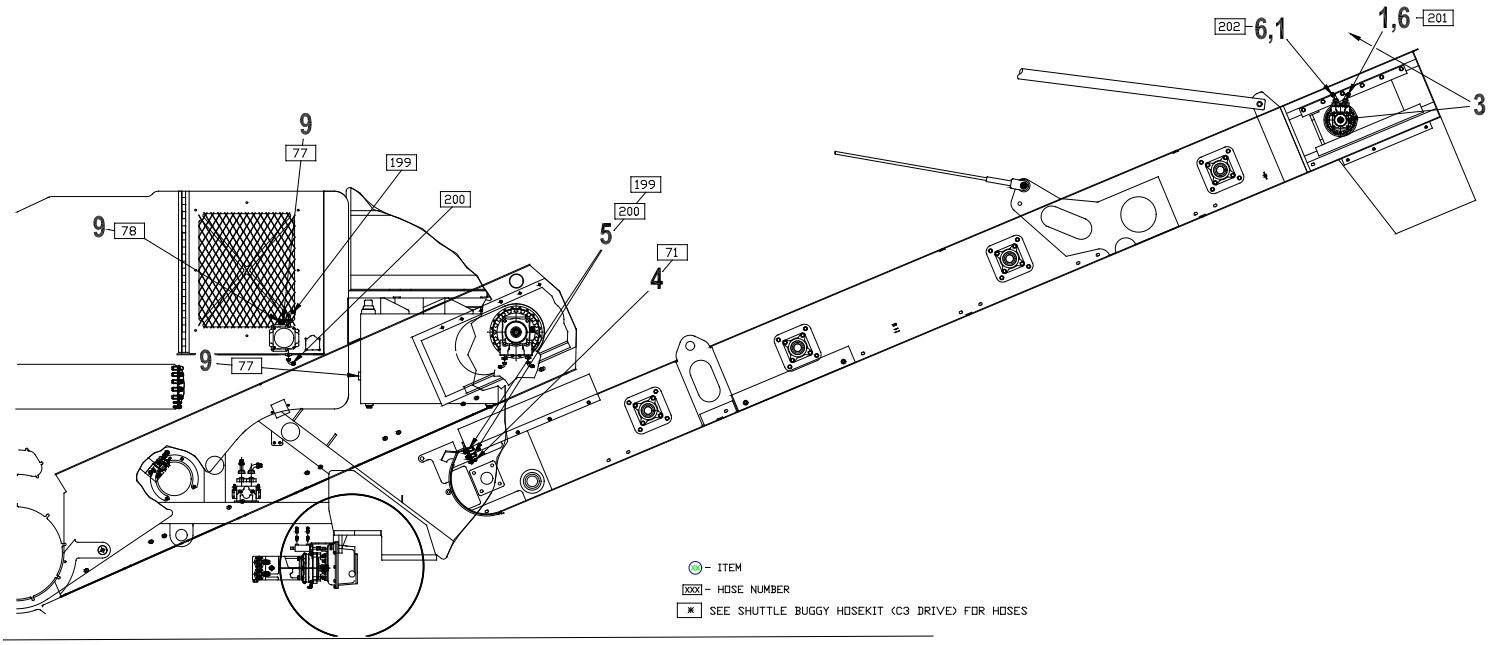
CYLINDER, C-2 CLEAN-OUT
(225738-01)

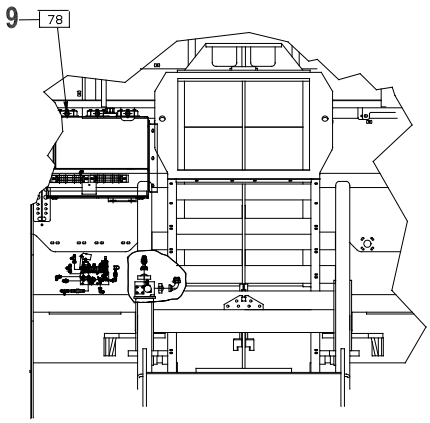


ITEM #	PART NO.	DESCRIPTION	QTY.
1	225738-01-C2	SEAL, PISTON	1
2	225738-01-C3	BACK-UP	1
3	225738-01-C4	HEX NUT	1
4	225738-01-C5	LOCK WASHER	1
5	225738-01-C6	HEX BOLT	1
6	225738-01-C7	O-RING	1
7	225738-01-C8	O-RING	1
8	225738-01-C9	WIPER	1
9	225738-01-C10	POLY PAK	1
10	225738-01-C11	HAIRPIN COTTER	1
11	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)





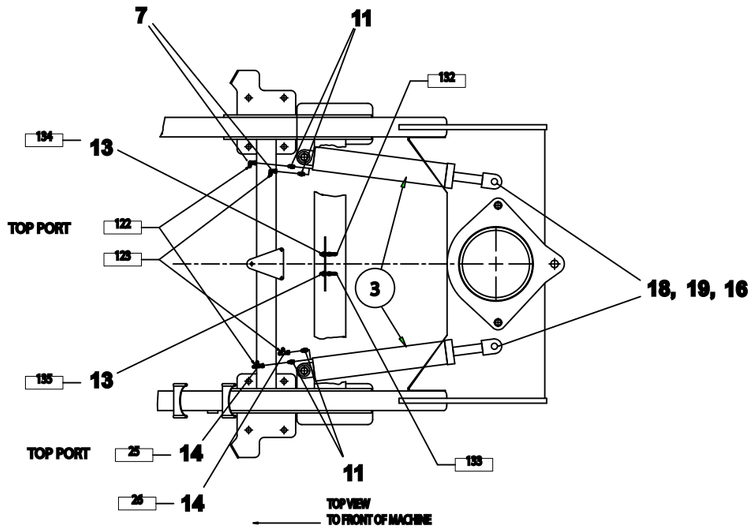


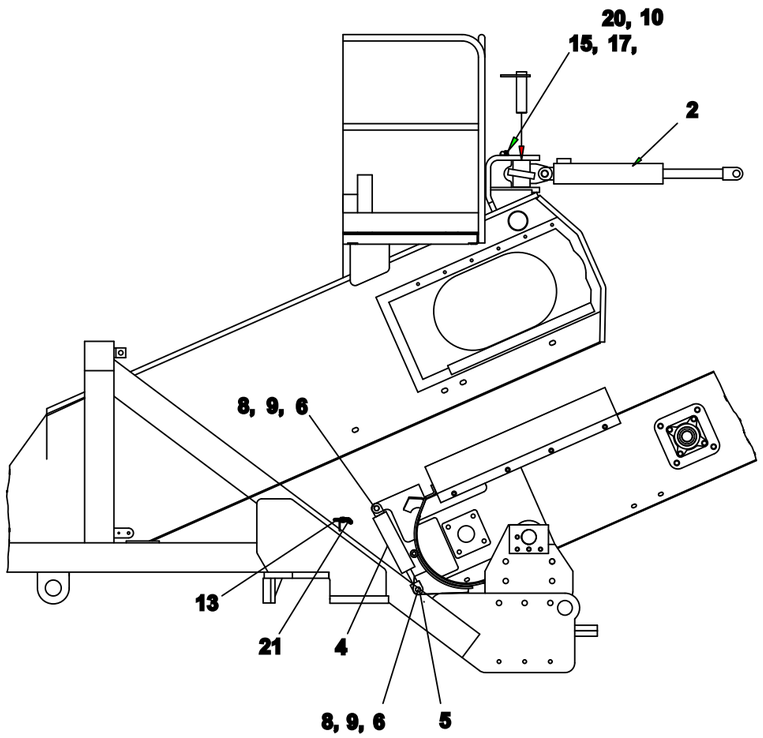
C-3 DRIVE HYDRAULICS
(145972-01)

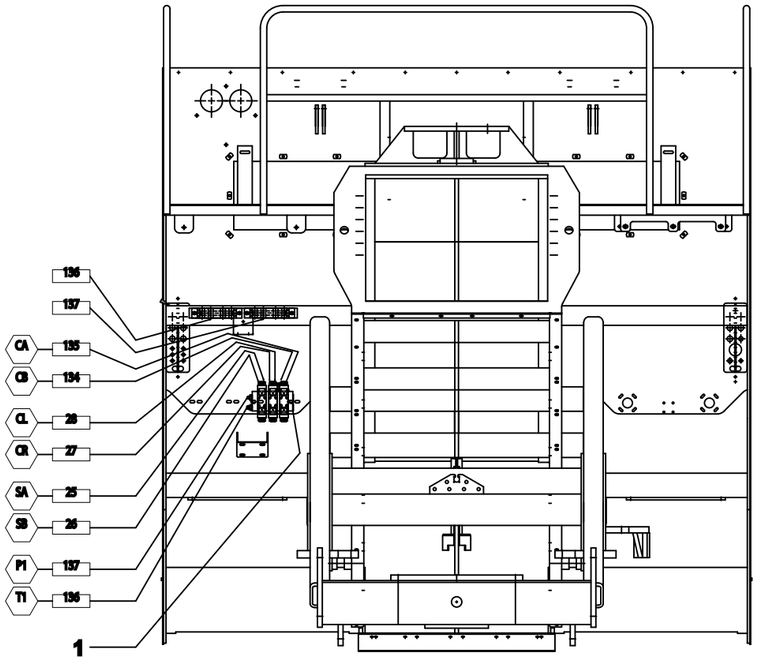
ITEM #	PART NO.	DESCRIPTION	QTY.
1	121517	# 16 FLANGE 45 X 16 JIC CODE 62	2
2	120439	10 SAE X 12 JIC 45 ELBOW	1
3	91681-04	MOTOR - DRIVE (SAUER-SUNDSTRAND)	1
4	83476-04	BULKHEAD UNION 12 JIC	1
5	89604	BULKHEAD UNION 16 JIC	2
6	90729	# 16 FLANGE KIT CODE 62	2
7	145538	CLAMP - 1/2" HOSE	14
8	149015	CLAMP - 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

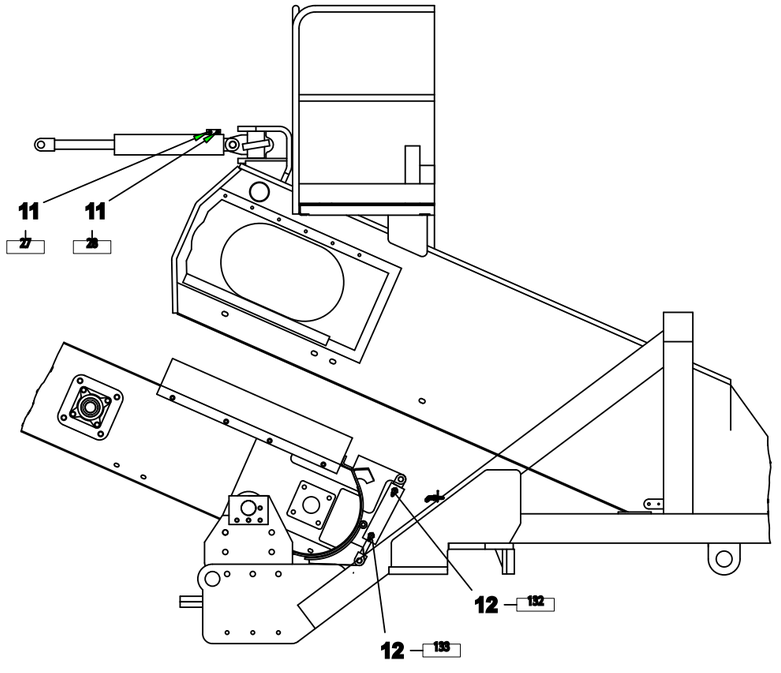
C3 CONTROL HYDRAULICS
(240914-01)

ITEM	ITEM #	DESCRIPTION	QTY
1	240915-02	ASSEMBLY-C3 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" (R.HAND THD.)	1
6	10589	WASHER ° FLAT 1" A325	2
7	83953-04	FIT ° FM SWIVEL ELBOW 6 JIC 90 DEG.	2
8	149431-03	PIN W.LDMT ~ C-3 CLEAN-OUT DOOR	2
9	144993-04	PIN ~ 3/16" LYNCH	2
10	83065	WASHER ~ 1/4 LOCK (SPRING STEEL)	1
11	83735-04	FIT ~ 6 JIC X 6 SAE MALE ADAPTER	6
12	84426-04	ELBOW 90° ~ 6 JIC - 8 SAE (MALE)	2
13	83475-04	BULKHEAD UNION ST.~ 6 JIC	2
14	84636-04	FIT ~ 6 JIC SW RUN TEE	2
15	20IX38	CLAMP ° 1 1/4" DIA.X 9/16" WTH.	2
16	86164	BOLT ° HEX 1/2"-13 X 1 1/4"	2
17	89773	BOLT ~ 1/4-20 X 1 HEX (GR8)	1
18	83761-04	WASHER ~ 1/2 FLAT (STEEL)	2
19	83317	WASHER ~ 1/2 LOCK (SPRING STEEL)	2
20	84444	WASHER ~ 1/4 FLAT (STEEL)	1
21	90768-04	FIT ° CONNECTOR 6 JIC 45 DEG.SW.	2









NOTE :
REF.APPROPRIATE HOSE KIT FOR HOSE DETAILS.

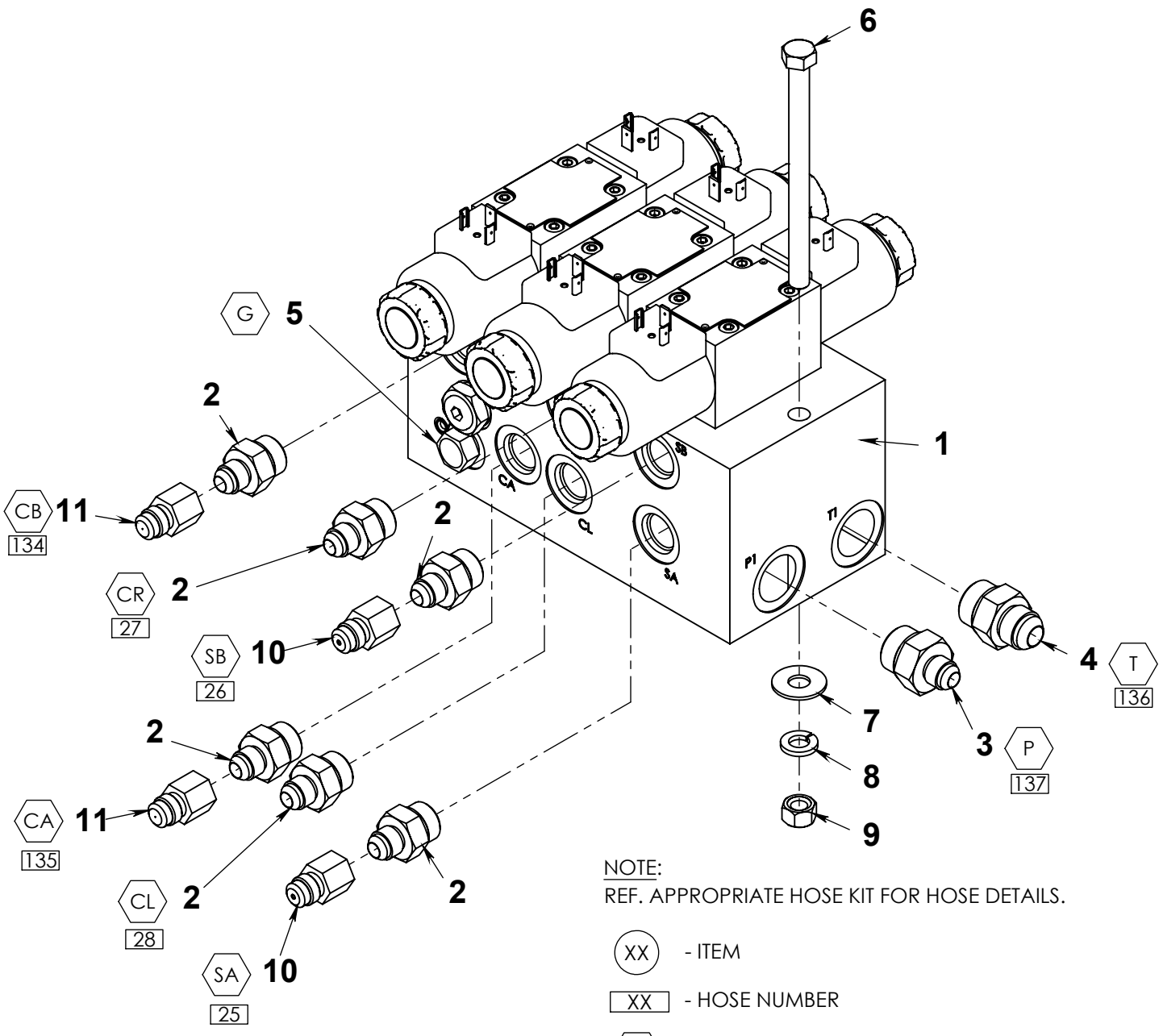
(XX) - ITEM

[XX] - HOSE NUMBER

XX - MANIFOLD PORT

ROADTEC
an Astec Industries Company

ASSEMBLY-C3 CONTROL MANIFOLD (240915-02)



NOTE:
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

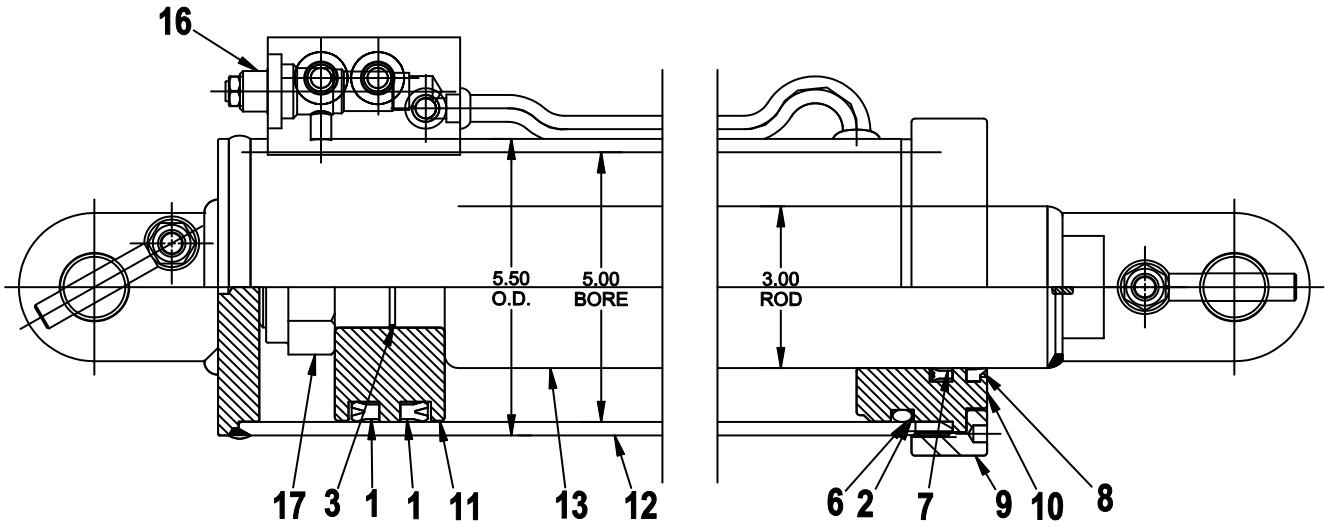
(XX) - ITEM

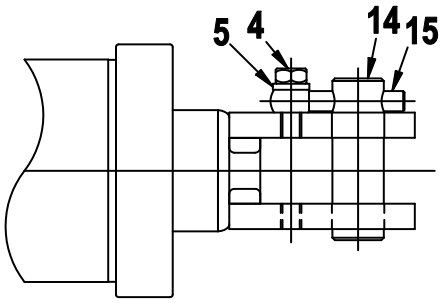
[XX] - HOSE NUMBER

⟨XX⟩ - MANIFOLD PORT

ITEM #	PART #	DESCRIPTION	QTY
1	238821-01	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)

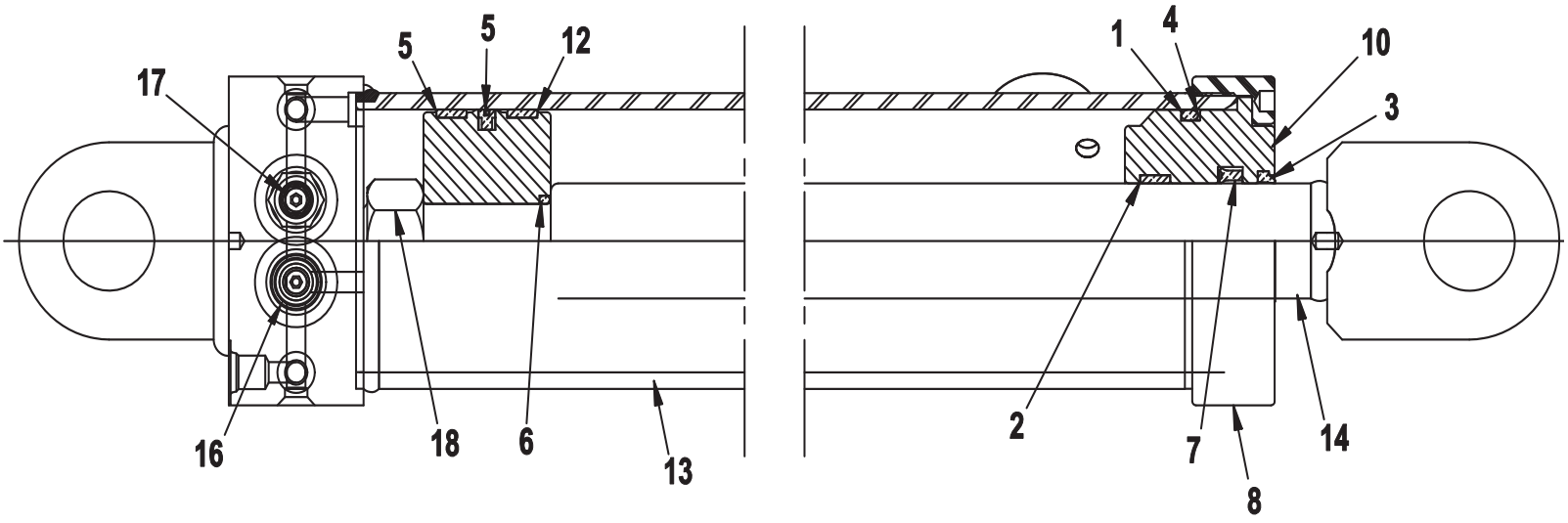




ROD END MOUNT DETAIL

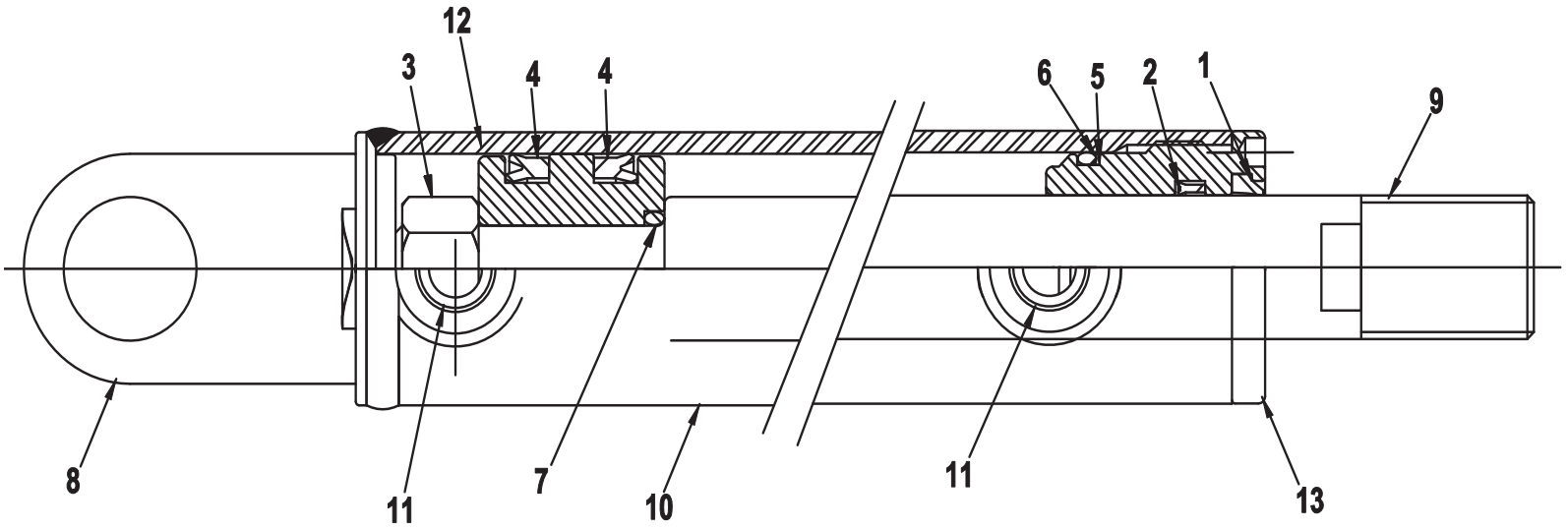
ITEM #	PART NO.	DESCRIPTION	QTY.
1	214518-01-C6	U-CUP	2
2	214518-01-C7	BACK-UP	1
3	214518-01-C8	O-RING	1
4	214518-01-C9	HEX BOLT	2
5	214518-01-C10	LOCK WASHER	2
6	214518-01-C11	O-RING	1
7	214518-01-C12	POLY PACK	1
8	214518-01-C13	WIPER	1
9	89028-04-C8	HEAD CAP	1
10	214518-01-C14	HEAD CAP	1
11	214518-01-C15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

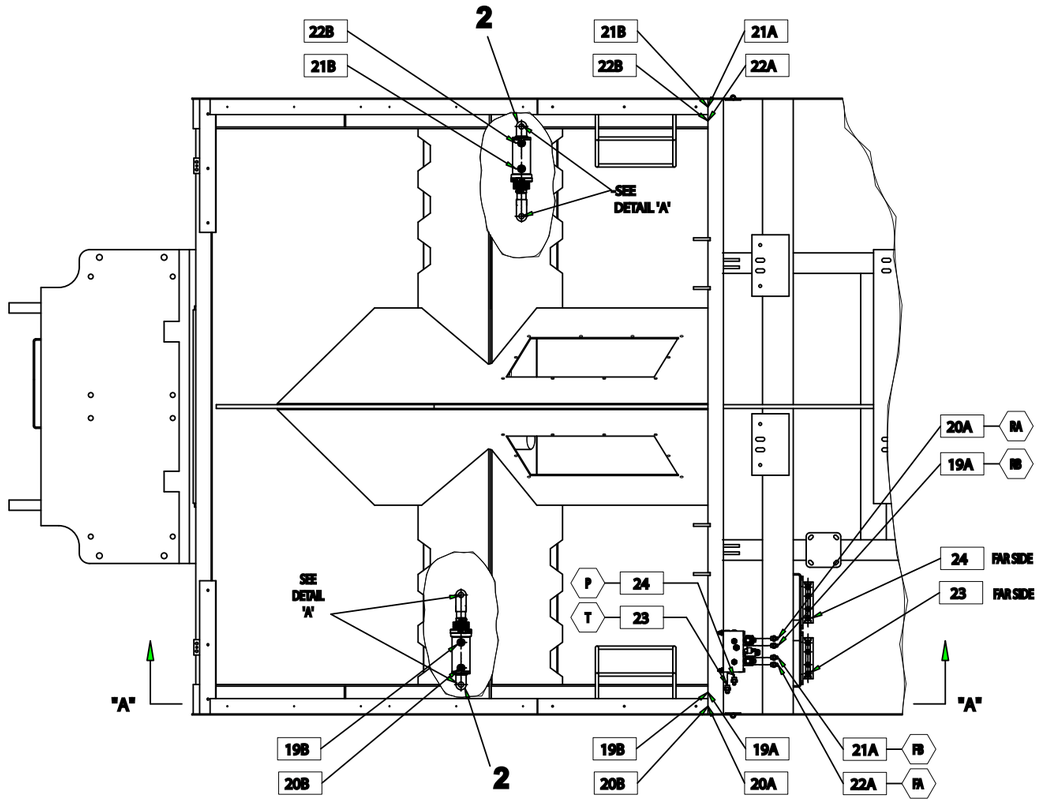
CYLINDER, C-3 CLEAN-OUT
(144899-01)

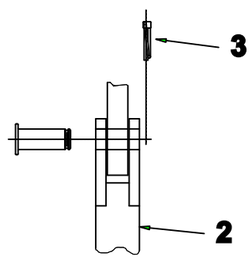


ITEM #	PART NO.	DESCRIPTION	QTY.
1	144899-01-C2	WIPER	1
2	144899-01-C3	POLY PAK	1
3	97482-01-C8	3/4" LOCK NUT	1
4	144899-01-C4	U-CUP	2
5	144899-01-C5	BACK UP	1
6	144899-01-C6	O-RING	1
7	144899-01-C7	O-RING	1
8	144899-01-C8	LUG	2
9	144899-01-C9	ROD	1
10	144899-01-C10	TUBE	1
11	144899-01-C11	PORT 8 SAE	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	

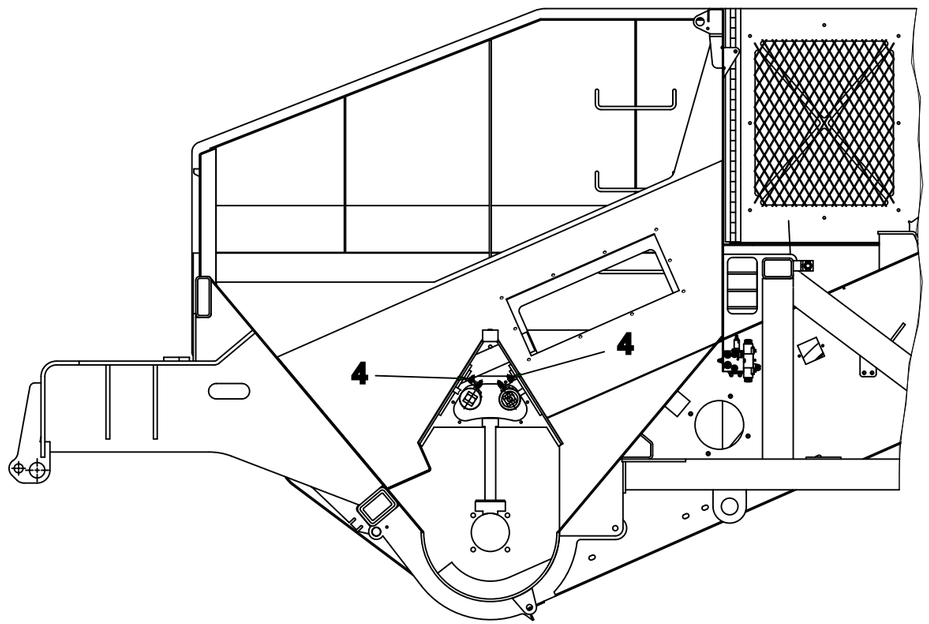
FLOWGATE HYDRAULICS
(240912-01)

ITEM	PART #	DESCRIPTION	QTY
1	240913-02	ASSEMBLY-FLOWGATE CONTROL 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	FITTING ~ 8 SAE MALE x 6 JIC	4

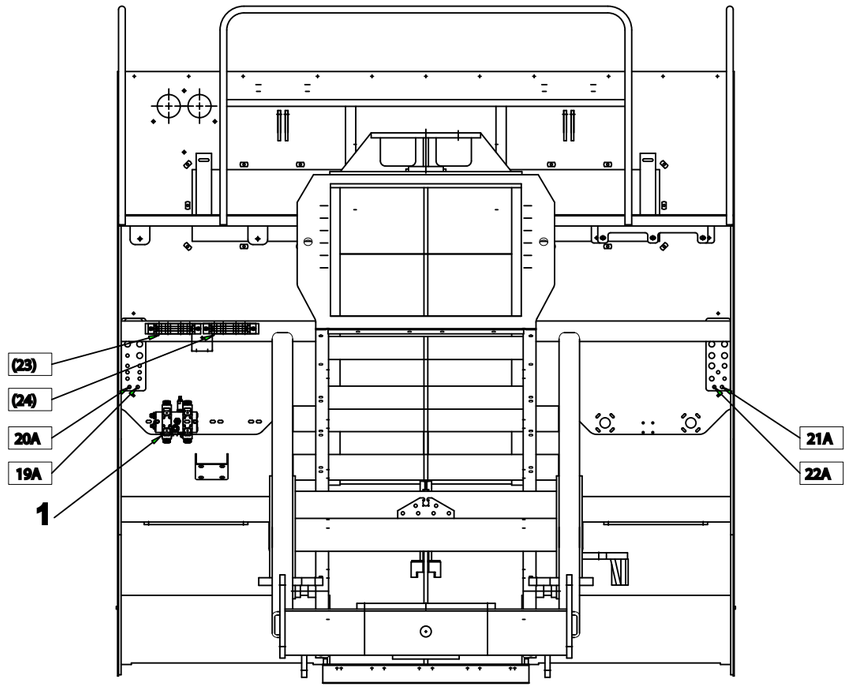




DETAIL 'A'
(4x SCALE)



'SECTION A'

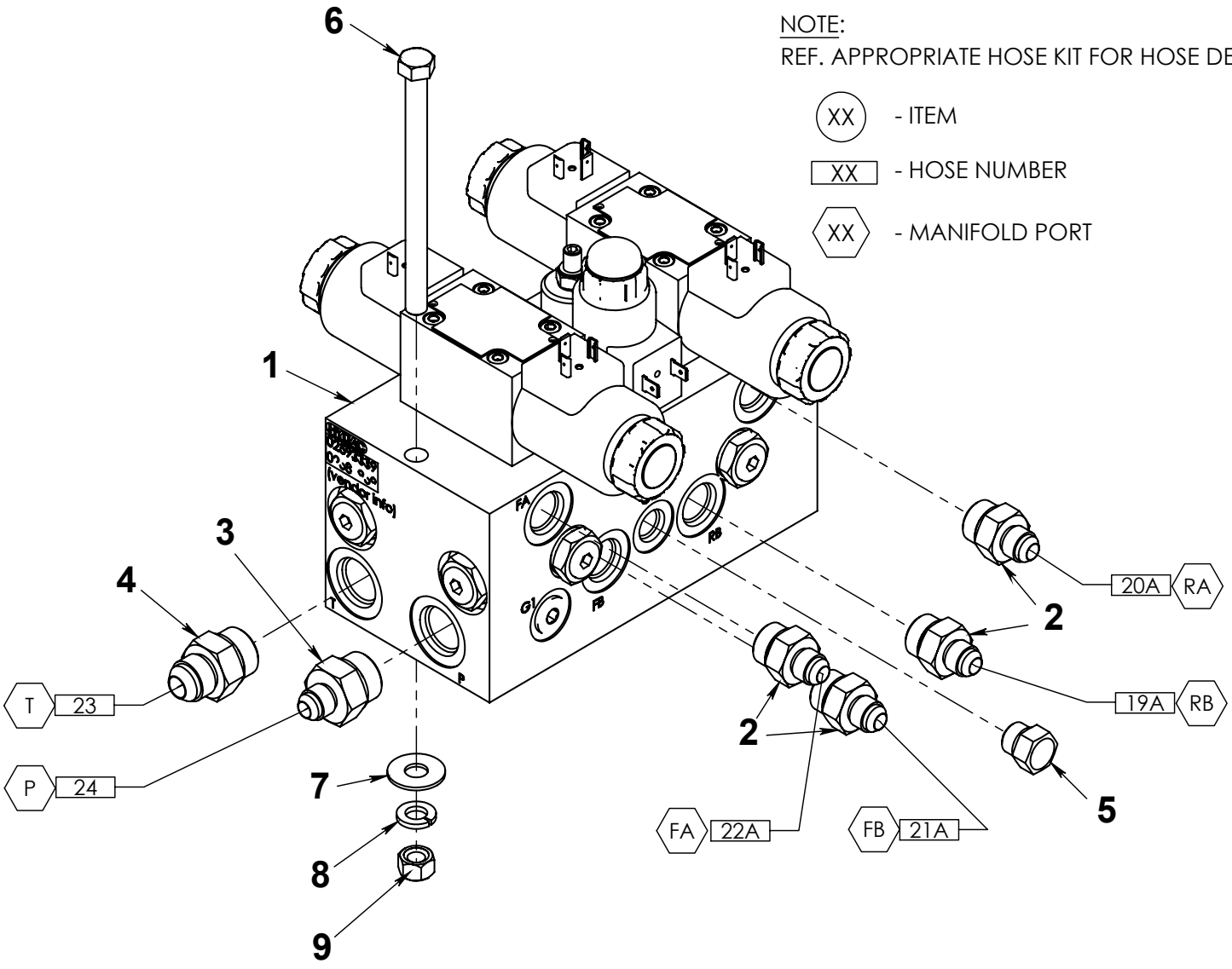


NOTE :
REF. APPROPRIATE HOSE KIT FOR HOSE DETAILS.

XX - ITEM
XX - HOSE NUMBER
XX - MANIFOLD PORT

ROADTEC
an Astec Industries Company

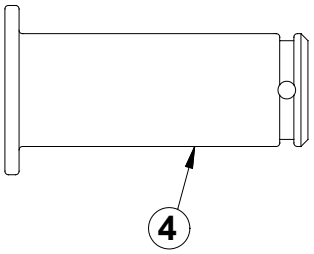
ASSEMBLY-FLOWGATE CONTROL MANIFOLD (240913-02)

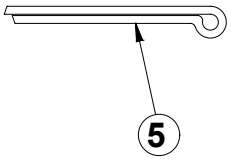


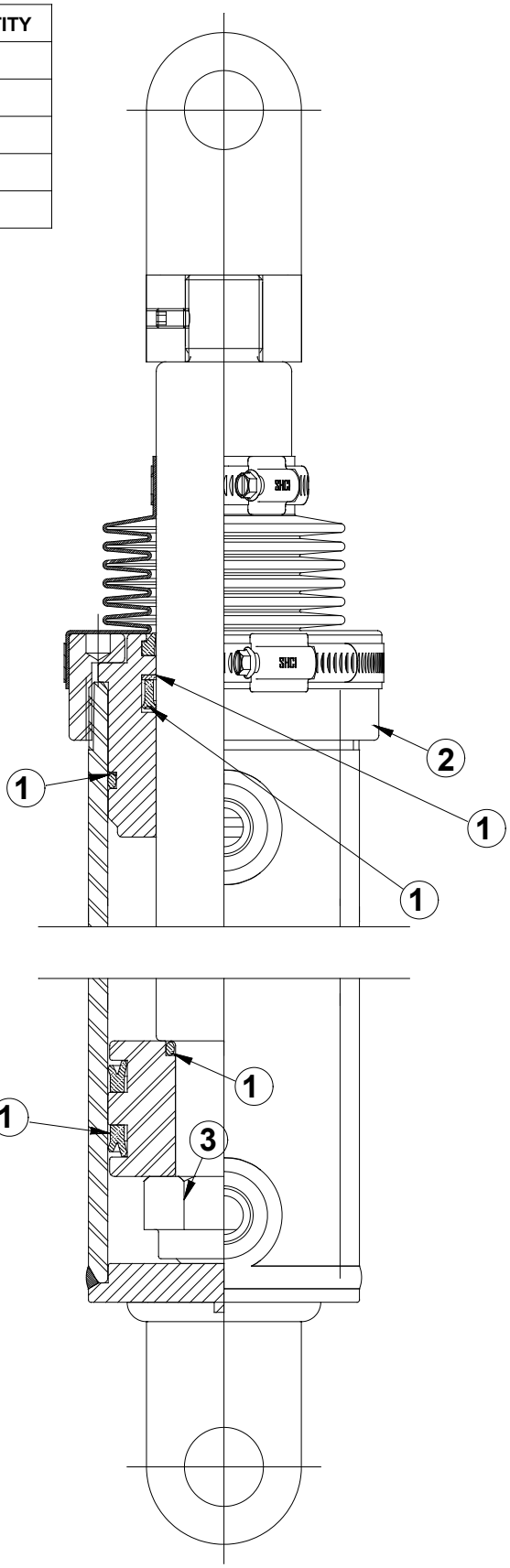
ITEM #	PART #	DESCRIPTION	QTY
1	238820-01	MANIFOLD * FLOWGATES/GENERATOR	1
2	83469-04	FIT ~ CONNECTOR 6 JIC - 8 SAE MALE	4
3	133995-04	FIT * 6 JIC X 10 SAE STR.	1
4	83704-04	FIT ~ CONNECTOR 8 JIC - 10 SAE MALE	1
5	84635-04	FIT * PLUG 6 SAE	1
6	20N62	BOLT * HEX 3/8"-16 X 5"	2
7	83757	WASHER ~ FLAT 3/8 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

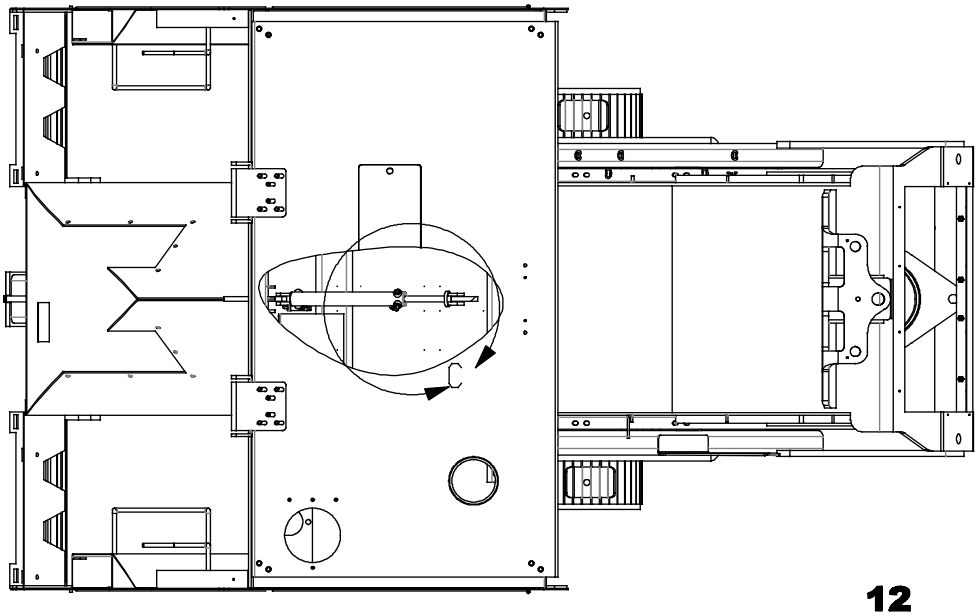


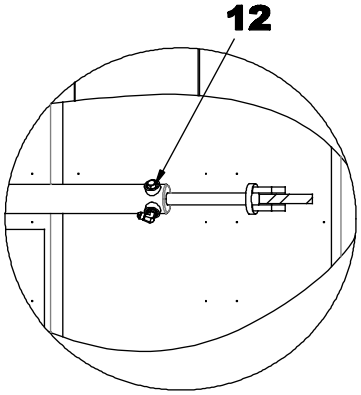




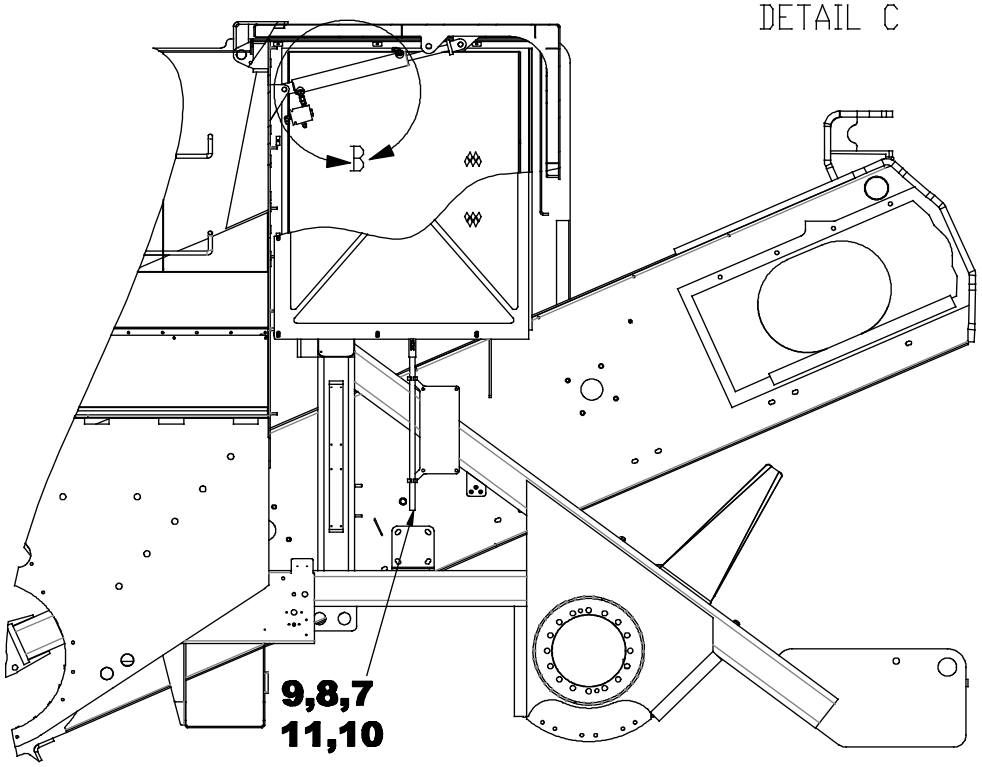
HOOD RAISE HYDRAULICS
(204266-01)

NEXT PAGE



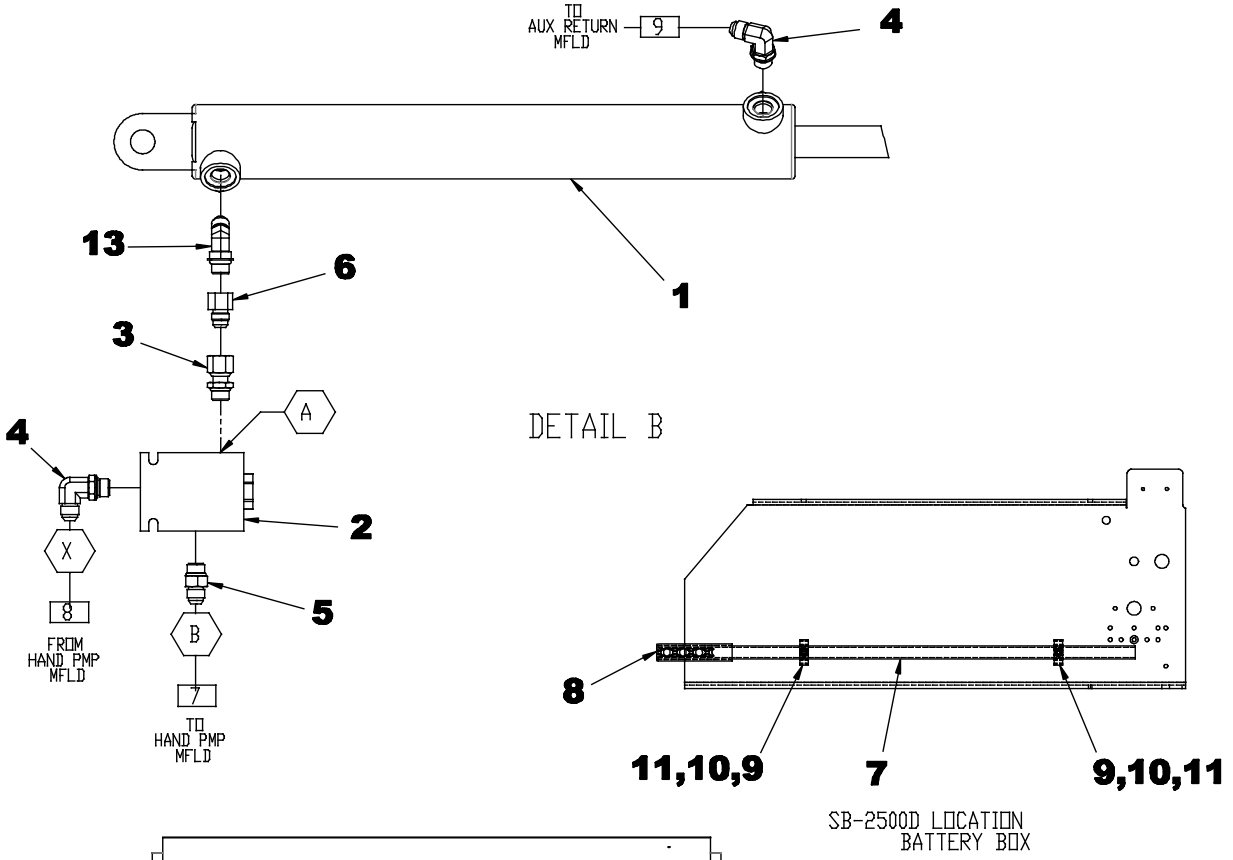


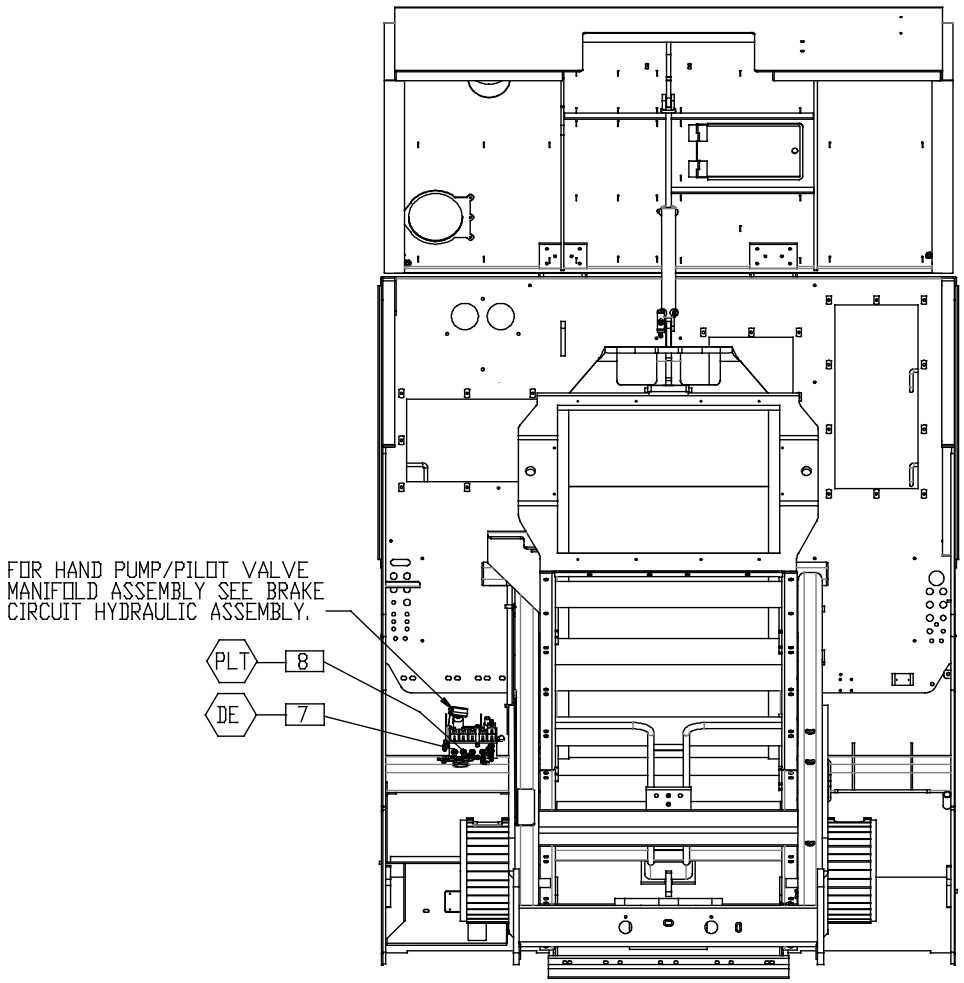
DETAIL C



SB-1500D LOCATION BATTERY BOX
(SOME PARTS NOT SHOWN FOR CLARITY)

HOOD RAISE HYDRAULICS
(204266-01)

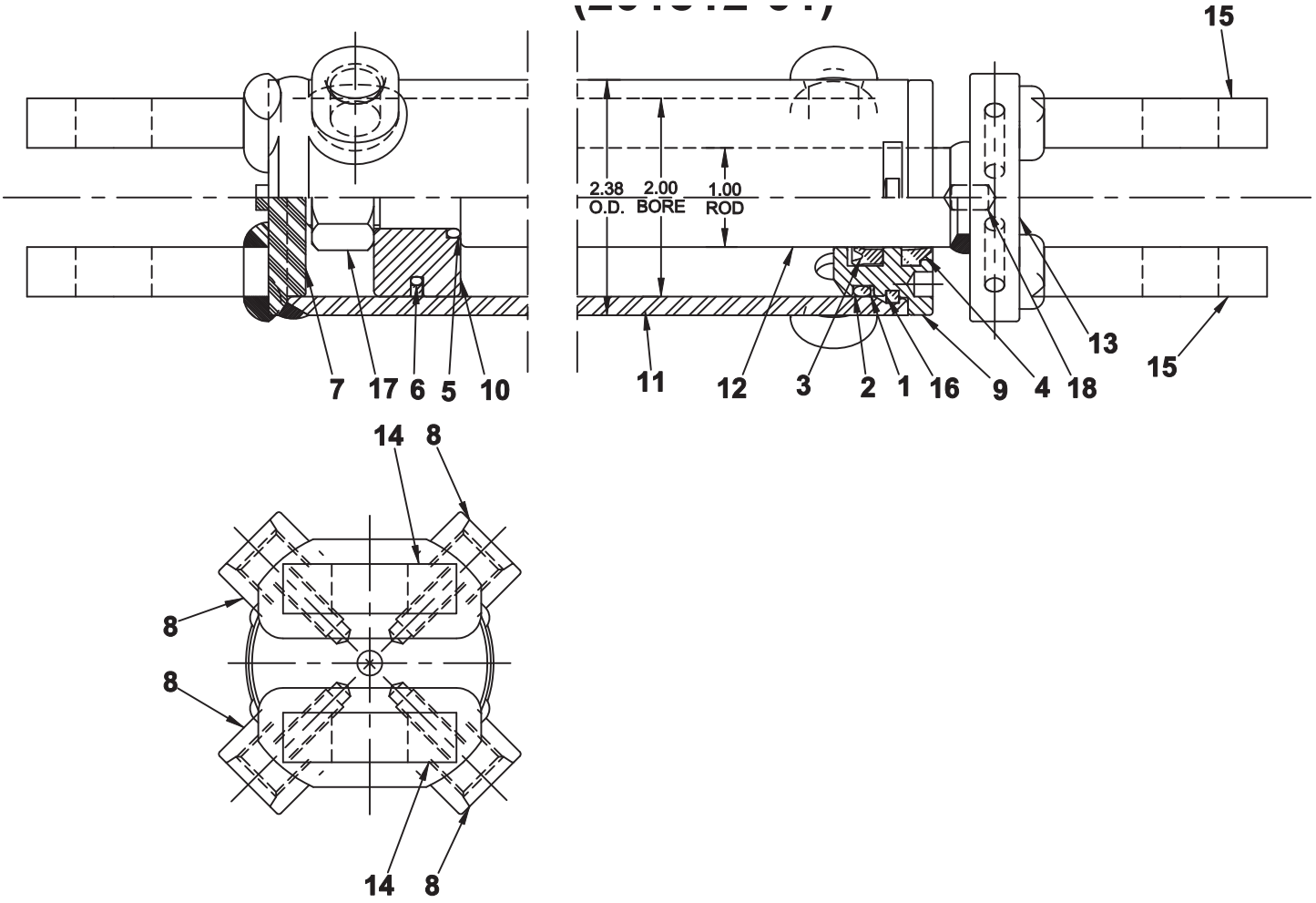




HOOD RAISE HYDRAULICS
(204266-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	201812-01	CYL - 2" BORE X 16" STROKE	1
2	200591	VALVE - HYDRAFORCE HOLDING	1
3	135923-04	FIT - 6 SAE MALE - 6 JIC FEM SW STR	1
4	83734-04	FIT - 6 JIC - 6 SAE 90 DEG.	2
5	83735-04	FIT - ADAPTER 6 JIC - 6 SAE MALE	1
6	135409-04	FIT - REST 6 JIC X 1/32" ORIFICE ST	1
7	201315-03	DETAIL - HAND PUMP HANDLE	1
8	201253-04	GRIP - ROUND VINYL GRIP	1
9	98296-C1	KIT - CLIP	2
10	83114	HEX BOLT - 1/4-20 X 1/2"	2
11	83065	LOCK WASHER - 1/4" SPRING STEEL	2
12	84635-04	FIT - PLUG 6 SAE	2
13	137703-04	FIT - 6 SAE X 6 JIC 45 DEG. ELBOW	1
14			
15			

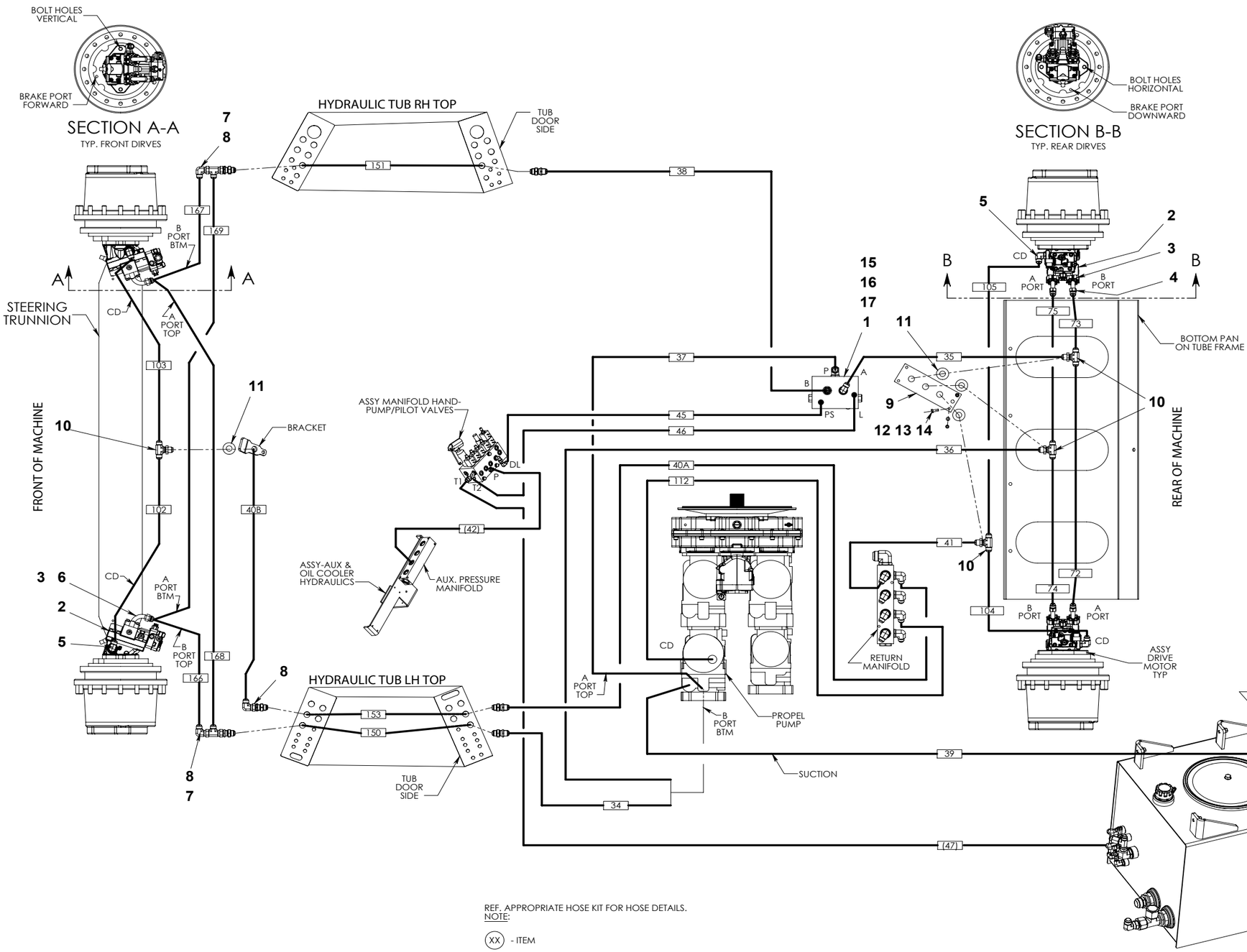
CYLINDER, HOOD RAISE
(201812-01)

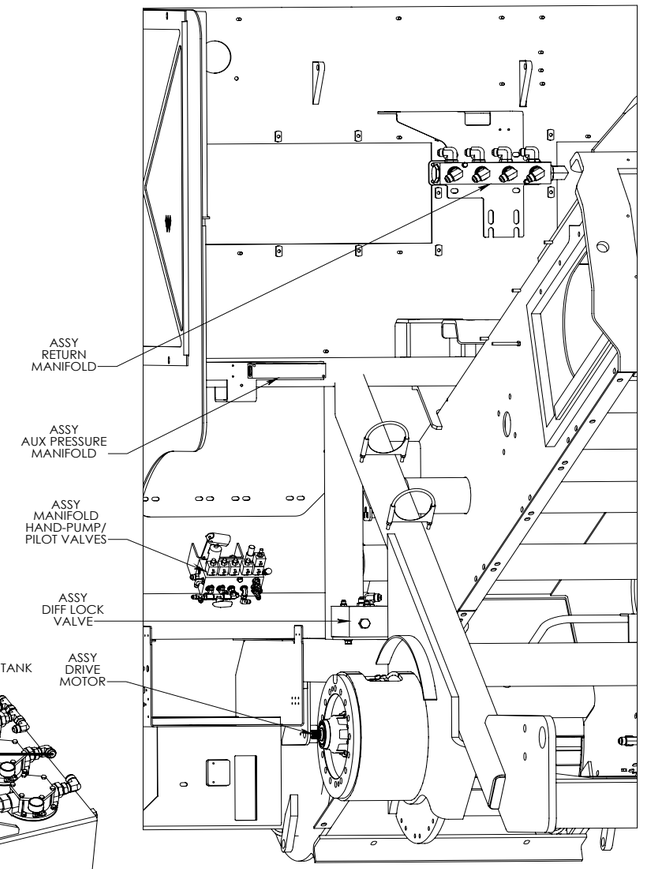


ITEM #	PART NO.	DESCRIPTION	QTY.
1	201812-01-C14	BACK-UP	1
2	201812-01-C15	O-RING	1
3	201812-01-C16	U-CUP	1
4	201812-01-C17	WIPER	1
5	201812-01-C18	O-RING	1
6	201812-01-C19	PISTON SEAL	1
7	201812-01-C2	BASE PLATE	1
8	201812-01-C3	PORT	4
9	201812-01-C4	HEAD	1
10	201812-01-C5	PISTON	1
11	201812-01-C6	TUBE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

ASSEMBLY- PROPEL DRIVE HYDRAULICS
(239409-01)

ITEM #	PART #	DESCRIPTION	QTY.
1	221111-02	ASSEMBLY- DIFF LOCK VALVE	1
2	222051-04	MOTOR * S51, 60CC CARTRIDGE,2SP	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 CODE 62	4
7	84402-04	FIT ~ SWIVEL RUN TEE 12 JIC	2
8	83764-04	FIT * ELBOW 12 JIC M 90 FM SWIVEL	3
9	225092-03-1	PLATE, 1/4 x 4 x 12, A36	1
10	85302	FIT * BULKHEAD BRANCH TEE 12 JIC	4
11	10S89	WASHER ~ FLAT 1" A325	4
12	83055	NUT * 3/8-16 HEX GRADE 8	2
13	83056	WASHER ~ LOCK 3/8 SPRING STEEL	2
14	84332	BOLT * HEX 3/8"-16 X 1"	2
15	10D63	WASHER ~ 1/2" HARD A325	2
16	83317	WASHER * LOCK 1/2" SPRING STEEL	2
17	86164	BOLT * HEX 1/2"-13 X 1 1/4"	2

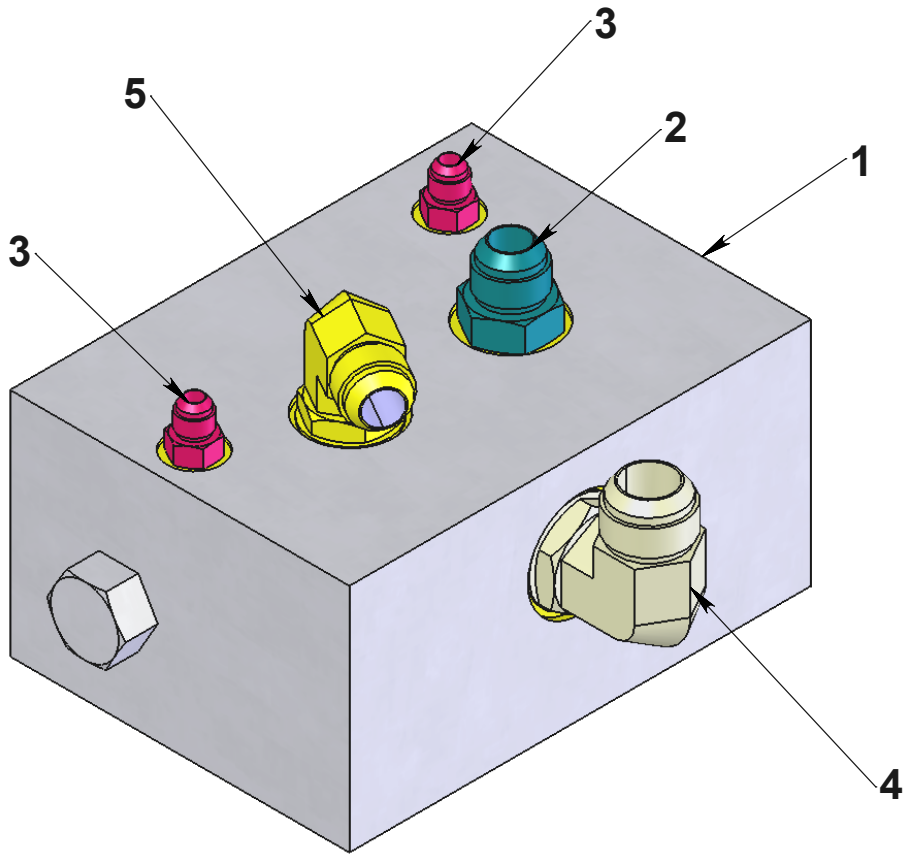




COMPONENT LOCATION
PARTIAL VIEW
(LH SIDE REAR QUARTER SHOWN)

ROADTEC
an Astec Industries Company

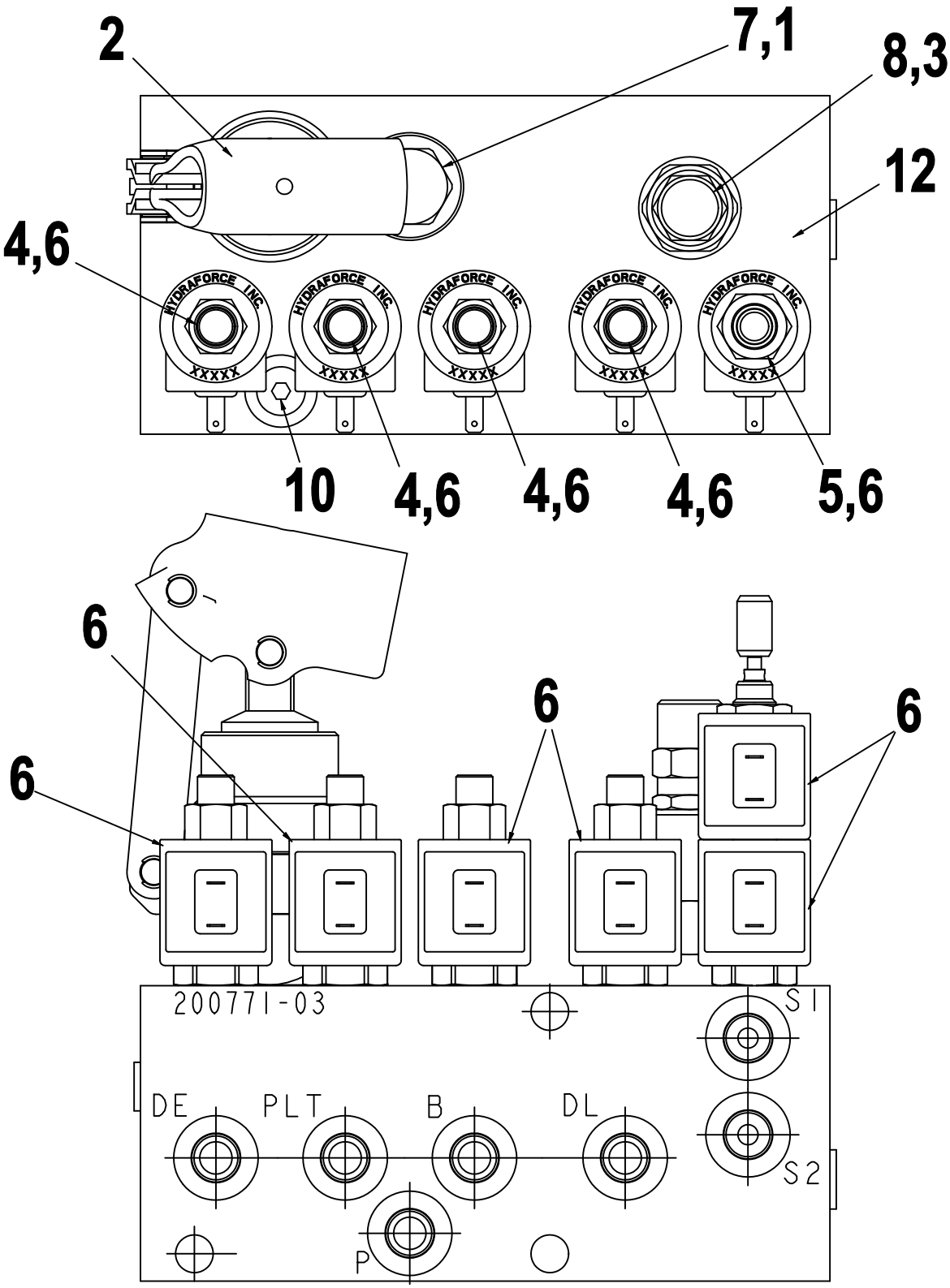
ASSEMBLY- DIFF LOCK VALVE
(221111-02)



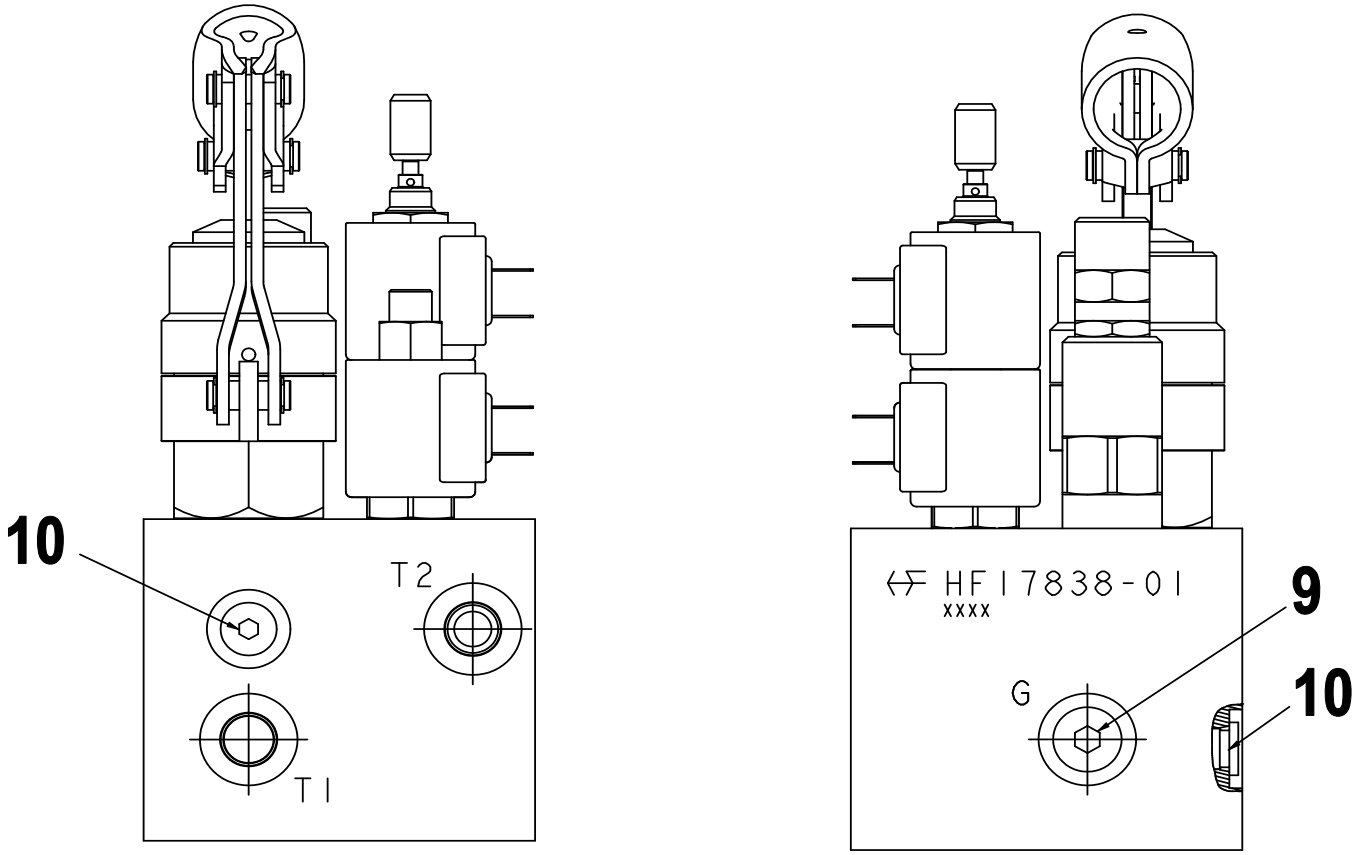
ITEM #	PART #	DESCRIPTION	QTY
1	220263-03	MANIFOLD * DIFF-LOCK BODY	1
2	83457-04	FIT ~ 12 JIC M x 12 SAE MALE STR	1
3	83735-04	FIT * ADAPTER 6 JIC - 6 SAE MALE	2
4	91660	FIT * ELBOW 16 JIC - 16 SAE 90 DEG.	1
5	91664-04	FIT ~ ELBOW 12 JIC - 12 SAE 90 DEG.	1

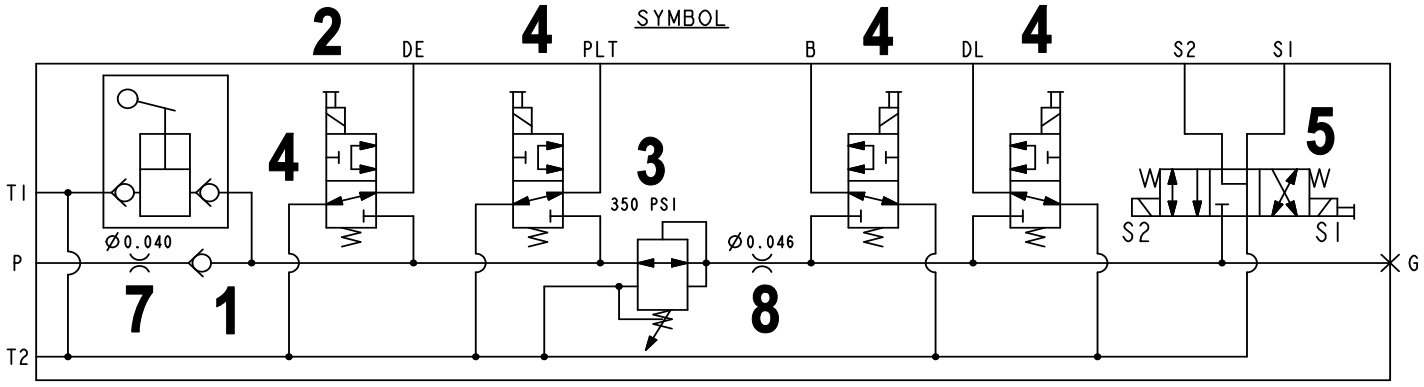
MANIFOLD- HAND PUMP/PILOT VALVE
(200771-03)

NEXT PAGE



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

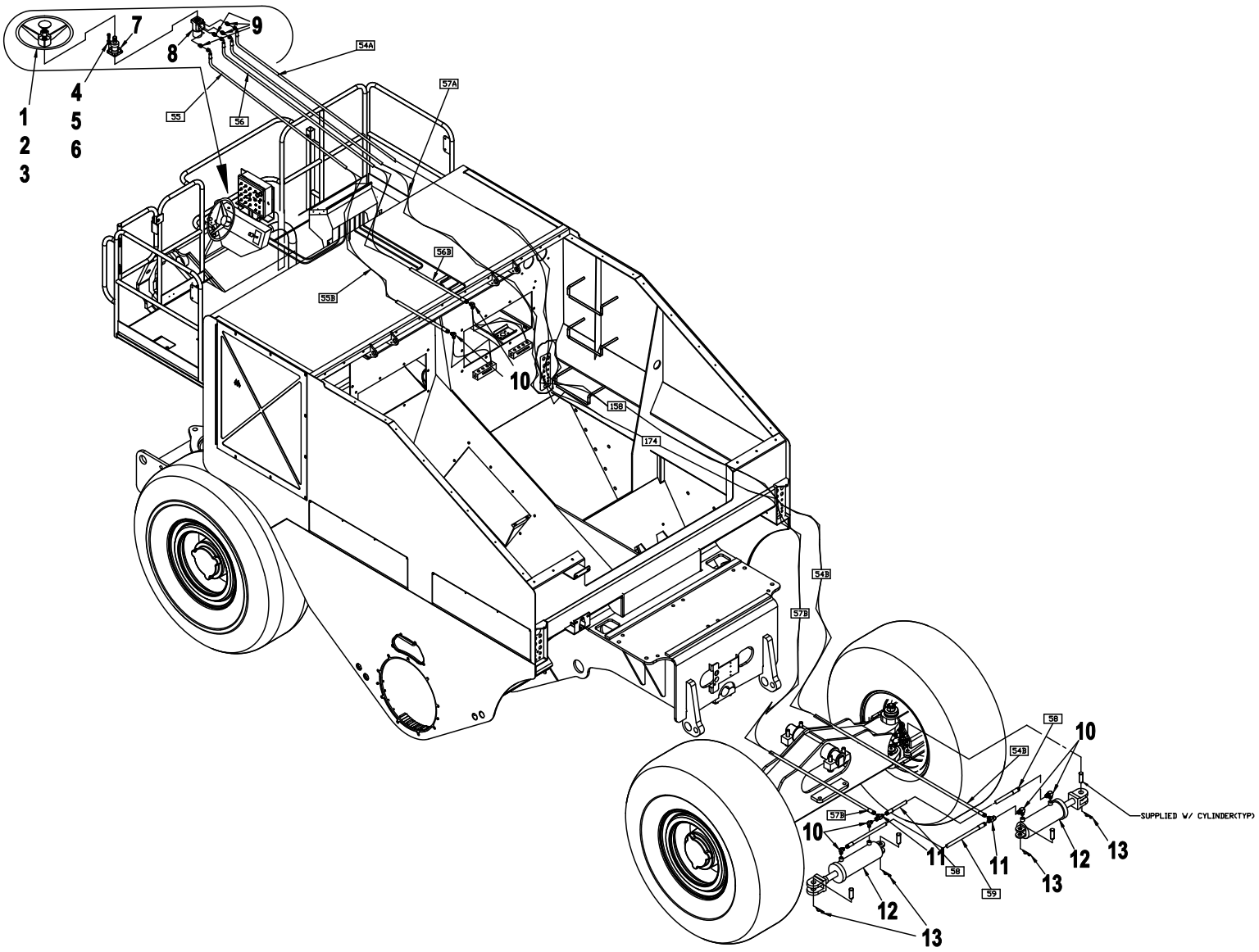




MANIFOLD- HAND PUMP/PILOT VALVE
(200771-03)

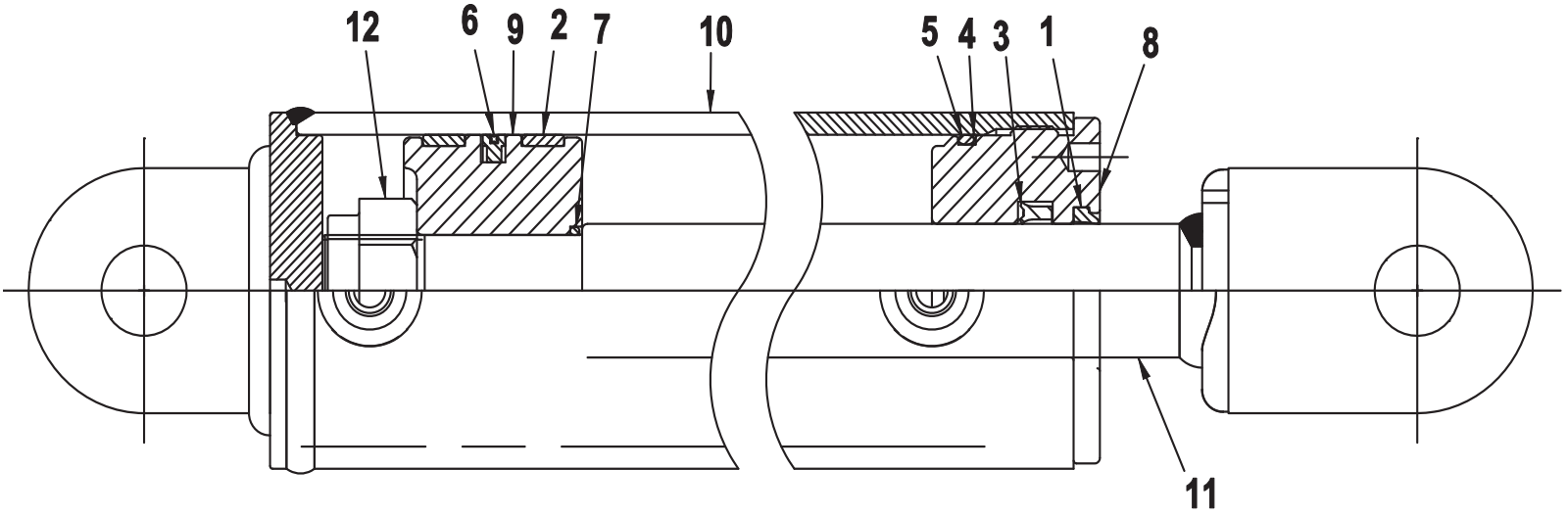
ITEM #	PART NO.	DESCRIPTION	QTY.
1	200771-03-C3	CHECK VALVE	1
2	200771-03-C4	HAND PUMP	1
3	200771-03-C5	PRESSURE REDUCING VALVE	1
4	200771-03-C1	CARTRIDGE VALVE (SOLENOID)	4
5	200771-03-C12	CARTRIDGE VALVE (SOLENOID)	1
6	200771-03-C2	COIL	6
7	200771-03-C6	ORIFICE DISC	1
8	200771-03-C7	ORIFICE DISC	1
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)



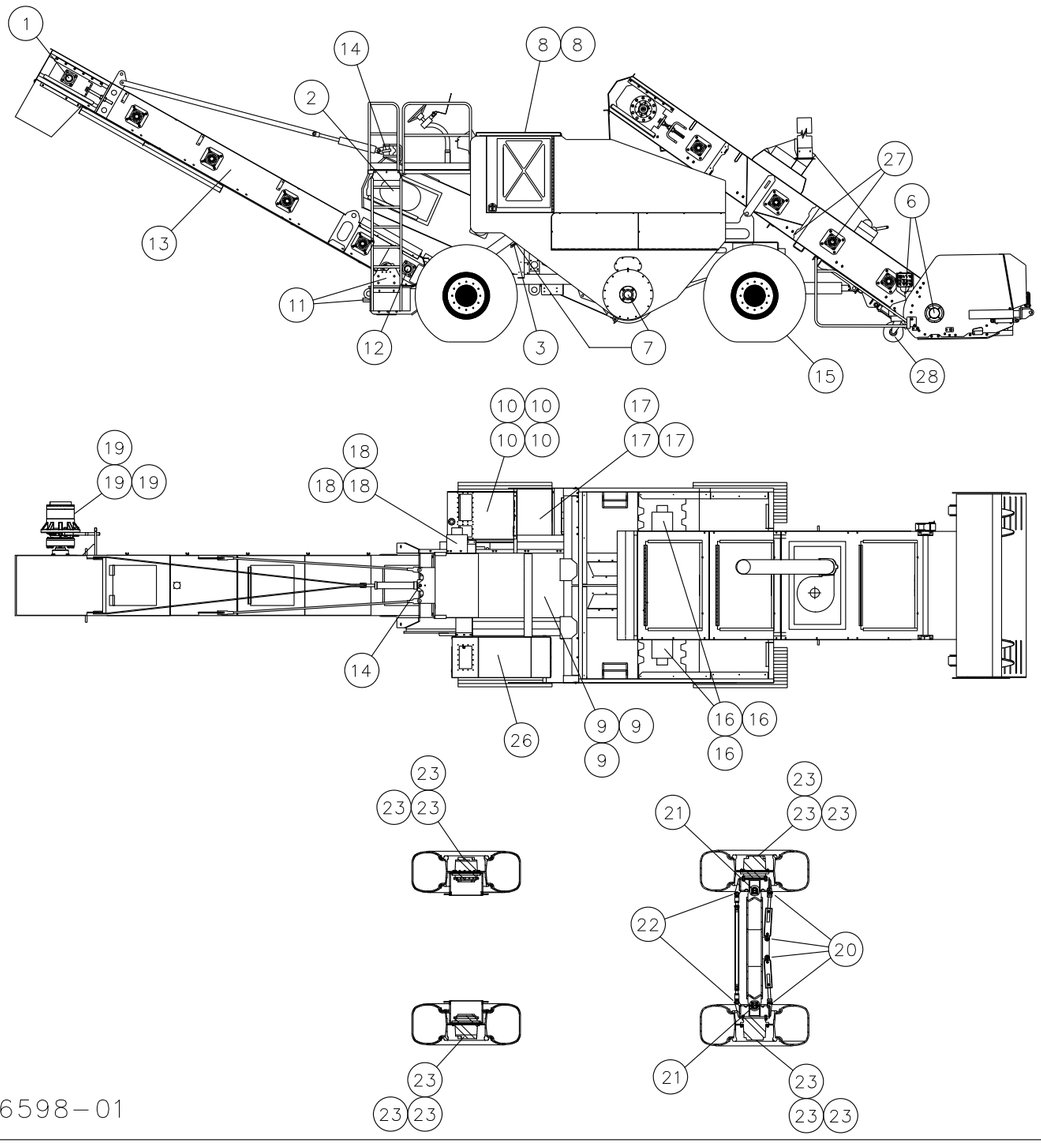
ITEM #	PART NO.	DESCRIPTION	QTY.
1	143112-03	STEERING WHEEL CAP	REF
2	89045	STEERING WHEEL NUT	REF
3	143111-01	STEERING WHEEL	REF
4	83924	HEX BOLT - 3/8-16 X 1 1/2" GR8	4
5	83056	LOCK WASHER - 3/8"	4
6	83757	FLAT WASHER - 3/8"	6
7	80375-04	STEERING COLUMN	1
8	89048-04	STEERING VALVE	1
9	83469-04	FIT - 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			

SB-2500D LUBRICATION CHART (ENGLISH)



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

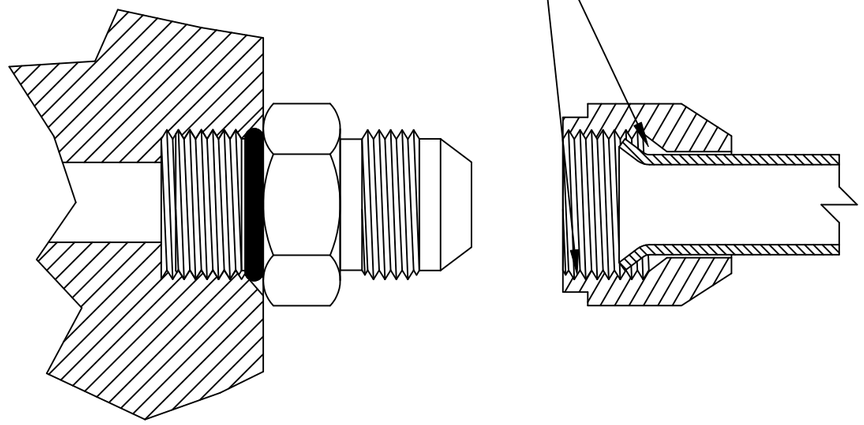
INTERVAL HOURS	REF NO	IDENTIFICATION	NO. OF POINTS	TYPE OF LUBRICATION	REMARKS
GREEN 250 HOURS	9	ENGINE AIR FILTER	2	N/A	CHECK AND REPLACE (IF NECESSARY)
	9	ENGINE OIL AND FILTER	1 EA	EO	CHANGE
	9	FUEL FILTER	2	N/A	CHANGE
	10	HYDRAULIC TANK	1	HO	DRAIN ACCUMULATED WATER & REFILL
	10	HYDRAULIC FILTERS	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)

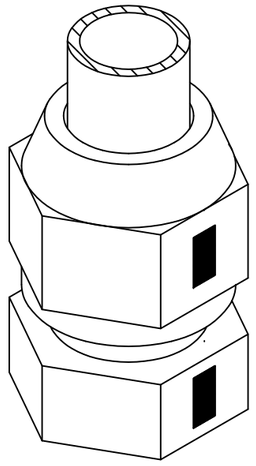
Valvoline

226598-01

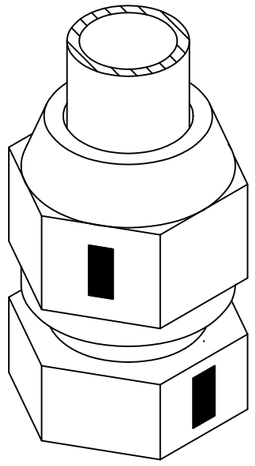
LUBRICATE THREADS AND BACKSIDE OF FLARE BEFORE CONNECTING TO FITTING.



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

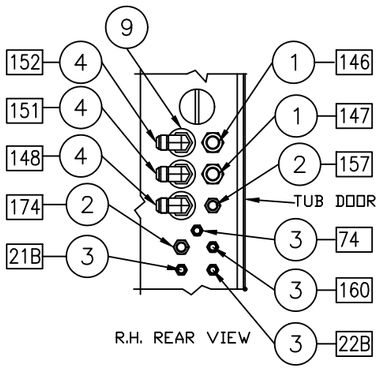
REQ'D PER | SHEET NO: 1 of 1 | FAB CODE | EFFECTIVE S/N: 000

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

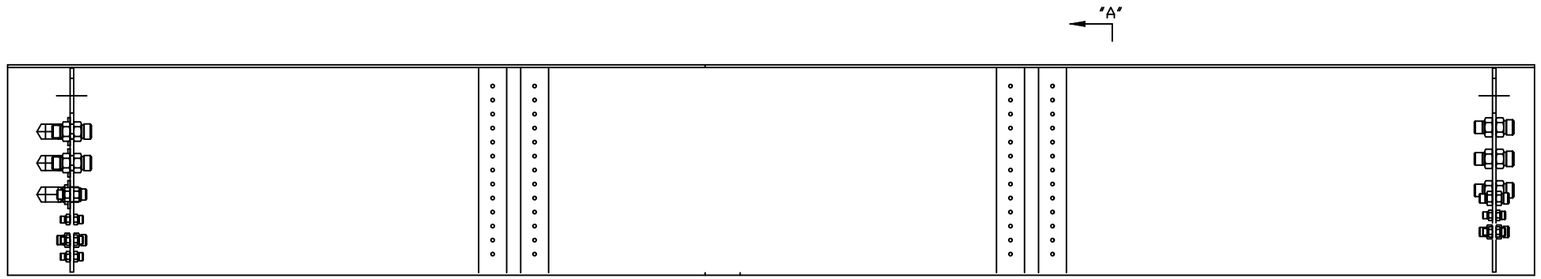
SCALE: NONE | DATE: 5/19/97

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

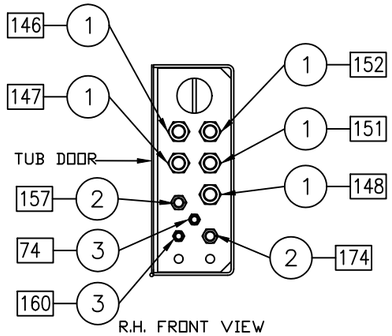
[X] SEE APPROPRIATE HOSE KIT FOR HOSE DESCRIPTIONS



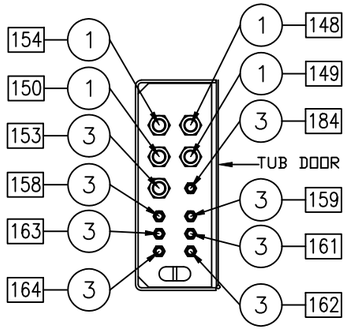
R.H. REAR VIEW



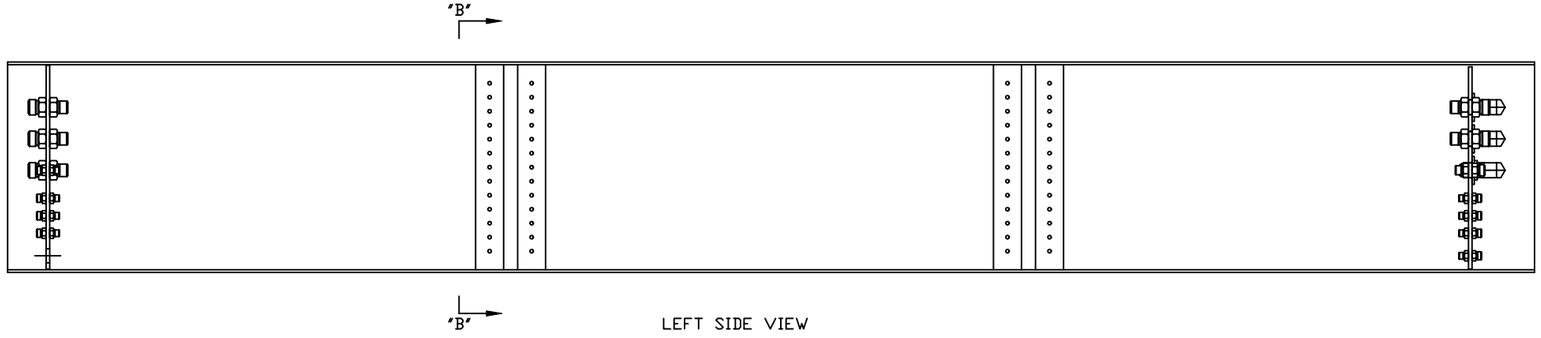
RIGHT SIDE VIEW



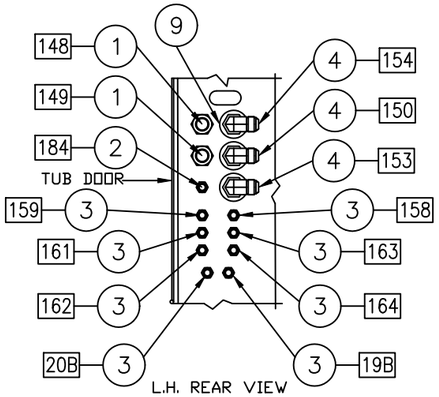
R.H. FRONT VIEW



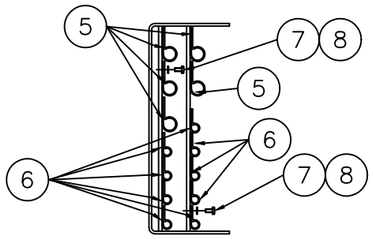
L.H. FRONT VIEW



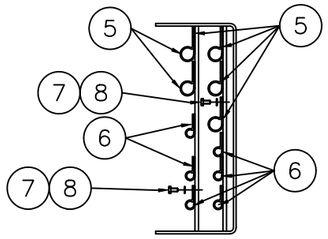
LEFT SIDE VIEW



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

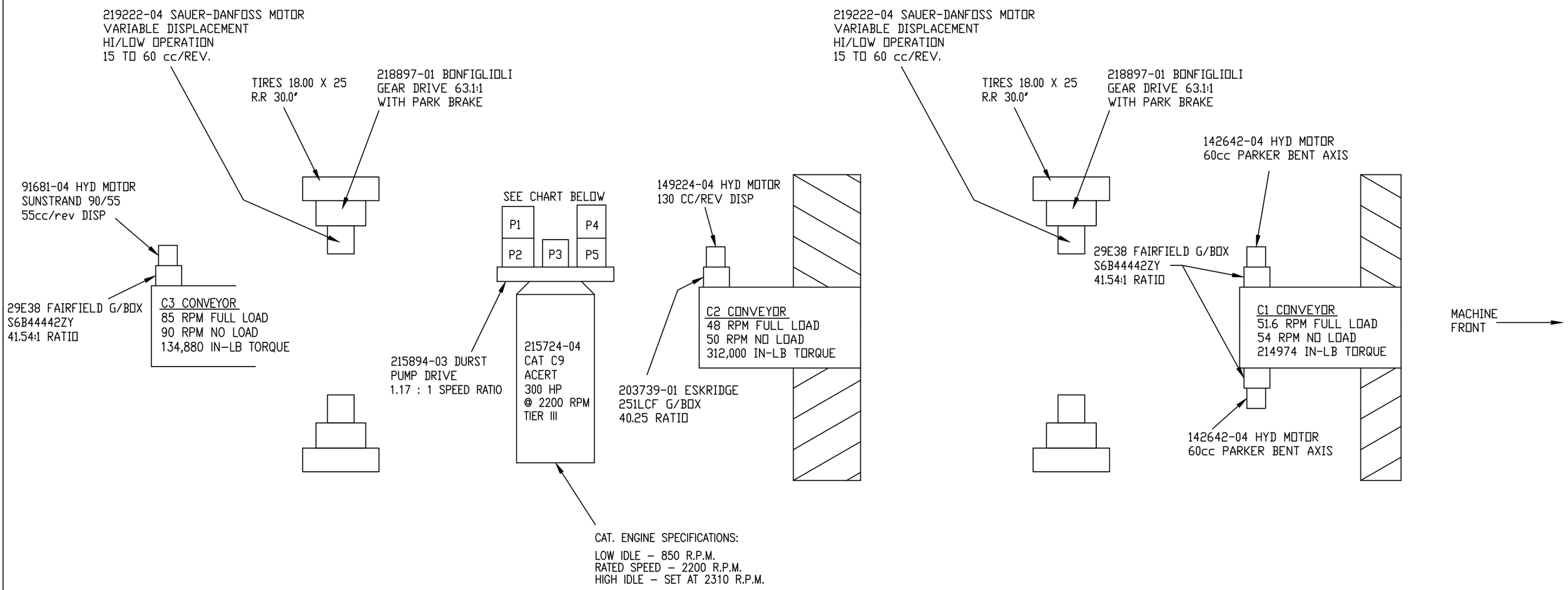
ROADTEC

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): | SCALE: 3/16 | DATE: 10/13/08 | DWG NO: 226561-01 | REV: 0

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

PARKER KIT #239468-04 BEGINNING SN 1221 EC# 1801

REVISION 0

SB-2500D DIRECT DRIVE

PRELIMINARY

Hose Type Codes

AS400 code	model	description	
VAC	Parker 811 for size 20-32/881 for size 12 &	suction	
LP	Parker 422	low pressure	
STD	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)	All sizes are 5000 psi MWP
731	Parker 731-12 (Drawing must be made for	high pressure (6000 psi)	Size 12 MWP is 6000, 16 is 5500 & 20 is 4700
SLEEVE	Partek "PS" series	ISO 6945 protective nylon	
HT	Parker 943B	high temperature	

O6 ST=STRAIGHT
39 90=ELBOW 90 DEGREE
41 90LN=ELBOW LONG THROW 90 DEGREE
37 45=ELBOW 45 DEGREE

								HOSE END SIZE x HOSE I.D.			
HOSE #	**CIRCUIT**	**ROADTEC PN**	**FUNCTION**	**Tier#**	**HOSE SIZE**	**HOSE TYP**	**HOSE & SLEEVE CUT LENGTH**	**HOSE END #1**	**HOSE END #2**	**SLEEVE PN**	**O.A.L.**
1	BRAKES	130820S	BRAKE MFLD - ACCUMULATOR	2	0.375	STD	41	6x6 ST	6x6 LN 90	147462-04	44
2	BRAKES	146027S	BRAKE JUMPER LH PEDAL*P - RT PEDAL*P	2	0.375	STD	41	6x6 ST	6x6 90	147462-04	44
3	BRAKES	146027S	BRAKE JUMPER LH PEDAL*T - RT PEDAL*T	2	0.375	STD	41	6x6 ST	6x6 90	147462-04	44
4	BRAKES	210277S	BRAKE JUMPER LH PEDAL*B - RT PEDAL*B	2	0.375	STD	41	6x6 ST	6x6 ST	147462-04	44
5	BRAKES	146028S	BRAKE RT PEDAL*T - HYD TANK	2	0.375	STD	78	6x6 ST	6x6 90	147462-04	81
6	BRAKES	129768S	DYNAMIC BRAKE - LH BRAKE PEDAL	2	0.25	STD	102	6x4 ST	6x4 90	147462-04	105
7	HOOD	130186S	HOOD RAISE HOLD VALVE*B - HAND PMP*DE	4	0.25	STD	132	6x4 ST	6x4 90	147462-04	135
8	HOOD	204543S	HOOD RAISE HOLD VALVE*X - HAND PMP*PLT	4	0.25	STD	132	6x4 ST	6x4 LN 90	147462-04	135
9	HOOD	120967S	HOOD LOWER ROD E.CYL - AUX RETURN MFLD	4	0.25	STD	120	6x4 ST	6x4 ST	147462-04	123
10	BRAKES	93640-04S	JUMPER LT BRAKE PEDAL*P - NEUTRAL VLV*3	2	0.25	STD	16	6x4 ST	6x4 ST	147462-04	19
12	BRAKES	134973S	BRAKE VALVE*A PR - RT PEDAL*P	2	0.375	STD	112	6x6 ST	6x6 90	147462-04	115
13	BRAKES	93274-04S	BRAKE MFLD*T - AUX RETURN MFLD	2	0.375	STD	22	6x6 ST	6x6 90	147462-04	25
14	BRAKES	135627S	BRAKE MFLD*P - AUX PR MFLD	2	0.375	STD	25	6x6 ST	6x6 90	147462-04	28
15	C3 DRIVE	145996S	C3 PUMP*B - MID BULK HD	9	1	HP	118	16x16 ST	16x16 ST	206128-04	123
16	C3 DRIVE	145995S	C3 PUMP*A - TOP BULK HD	9	1	HP	110	16x16 ST	16x16 ST	206128-04	115
17	C3 DRIVE	145994	C3 DRIVE MTR*A - TOP BULK HD	9	1	HP	274	16x16 ST	16x16 ST	NO SLEEVE	279
18	C3 DRIVE	145994	C3 DRIVE MTR*B - MID BULK HD	9	1	HP	274	16x16 ST	16x16 ST	NO SLEEVE	279
23	FLOWGATES	134031S	FLOW GATE VALVE*T - AUX RETURN MFLD	3	0.5	STD	41	8x8 ST	8x8 90	147462-04	44
24	FLOWGATES	96869S	FLOW GATE VALVE*P - AUX PR MFLD	3	0.375	STD	35	6x6 ST	6x6 90	147462-04	38
25	C3 CONTROLS	99631S	C3 SWING VALVE*SA - TOP LH BASE CYL	3	0.25	STD	108	6x4 ST	6x4 90	147462-04	111
26	C3 CONTROLS	99631S	C3 SWING VALVE*SB - BOTTOM LH ROD E.CYL	3	0.25	STD	108	6x4 ST	6x4 90	147462-04	111
27	C3 CONTROLS	130199S	C3 LIFT VALVE*CR- ROD E.CYL	3	0.25	STD	160	6x4 ST	6x4 90	147462-04	163
28	C3 CONTROLS	130199S	C3 LIFT VALVE*CL - BASE CYL	3	0.25	STD	160	6x4 ST	6x4 90	147462-04	163
29	AUX & COOLER	134497S	AUX PR MFLD - E-Z START JUMP AUX RETURN MFLD	4	0.375	STD	11	6x6 ST	6x6 90	147462-04	14
32	BRAKES	96871S	BRAKE JMPR LT BRK PDL*T - NEUTRAL VLV*1	2	0.25	STD	14	6x4 ST	6x4 90	147462-04	17
33	BRAKES	96871S	BRAKE JMPR LT BRK PDL*PLT - NEUTRAL VLV*2	2	0.25	STD	14	6x4 ST	6x4 90	147462-04	17
34	PROPEL	205188-04S	FR PUMP*B RETURN - LH TUB RS	7	0.75	HP731	60	12x12 ST	12x12 90	206128-04	64
35	PROPEL	146331-04S	RR DIF LOCK*A - TOP BULK HD TEE	7	0.75	HP731	48	12x12 ST	12x12 ST	206128-04	52
36	PROPEL	146338-04S	RR PUMP*B RETURN - MID BULK HD TEE	7	0.75	HP731	105	12x12 ST	12x12 90	206128-04	110
37	PROPEL	221856-04S	FR PUMP*A PR - DIF LOCK*P	7	1	HP731	56	16x16 ST	16x16 ST	206128-04	60
38	PROPEL	217150	FR DIF LOCK*B - RH TUB LS	7	0.75	HP731	113	12x12 ST	12x12 90	206128-04	117
39	PROPEL	227319S	PROPEL PUMP*SUC - TANK FLTR	1	1.25	VAC	62	20x20 ST	20x20 90	148915-04	67
41	PROPEL	121351S	RR BTM BULK HD TEE - CD RETRUN MFLD	7	0.75	STD	100	12x12 ST	12x12 90	206127-04	104
42	BRAKES	129765S	HAND PMP*P - AUX PR MFLD	4	0.375	STD	54	6x6 ST	6x6 90	147462-04	58
45	PROPEL	99720S	HAND PMP*DL - DIF LOCK*PS	4	0.375	STD	50	6x6 ST	6x6 ST	147462-04	53
46	PROPEL	123658S	HAND PMP*T2 - DIF LOCK*L	4	0.375	STD	59	6x6 ST	6x6 ST	147462-04	62
47	BRAKES	120747S	HAND PMP*T1 - HYD TANK	4	0.5	STD	105	8x8 ST	8x8 90	147462-04	108
48	C2 COD	217144S	C2 COD VALVE - RH ROD E.CYL	4	0.375	STD	65	6x6 ST	6x6 ST	147462-04	68
49	C2 COD	201298S	C2 COD RETURN VALVE*T - RETURN MFLD	4	0.375	STD	98	6x6 ST	6x6 ST	147462-04	101
50	C2 COD	206308S	C2 COD PR VALVE*P - PR MFLD	4	0.375	STD	87	6x6 ST	6x6 ST	147462-04	90
51	C2 COD	99685S	C2 COD VALVE - BASE CYL	4	0.375	STD	67	6x6 ST	6x6 90	147462-04	70
52	C2 COD	227355-04S	C2 COD JUMP CYL - ROD E.CYL	4	0.375	STD	63	6x6 ST	6x6 ST	147462-04	65
53	C2 COD	131070S	C2 COD JUMP CYL - BASE CYL	4	0.375	STD	62	6x6 ST	6x6 90	147462-04	65
55	STEERING	137729S	STEER VALVE*T - AUX RETURN MFLD	5	0.375	STD	136	6x6 ST	6x6 LN 90	147462-04	139
56	STEERING	97803S	STEER VALVE*P - AUX PR MFLD	5	0.375	STD	126	6x6 ST	6x6 90	147462-04	129
58	STEERING	99666	STEER JUMP RH BASE CYL - LH ROD E.CYL	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
59	STEERING	99666	STEER JUMP LH BASE CYL - RH ROD E.CYL	5	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29
60	AUX & COOLER	239513S	COOLER OUT - HYD TANK	8	1.5	VAC	114	24x24 ST	24x24 ST	147464-04	119
61	AUX & COOLER	134268S	COOLER IN - CD RETURN MFLD	8	1.5	VAC	84	24x24 ST	24x24 ST	147464-04	89
62	AUX & COOLER	132285S	AUX RETURN MFLD - TANK FLTR	11	0.75	STD	84	12x12 ST	12x12 90	206127-04	88
63	AUX & COOLER	201249S	AUX PUMP*SUC - TANK STRAINER	1	1.5	VAC	46	24x24 ST	24x24 ST	147464-04	51
64	AUX & COOLER	93331-04S	AUX PUMP*PR - HI PRES FLTR	1	0.75	STD	54	12x12 ST	12x12 90	206127-04	59
65	C1 DRIVE	141428S	C1 PUMP*CD - CD RETURN MFLD	1	0.75	STD	44	12x12 ST	12x12 ST	206127-04	48
66	C2 DRIVE	201250S	C2 PUMP*SUC - HYD TANK	1	1.25	VAC	41	20x20 ST	20x20 90	148915-04	46
67	C2 DRIVE	132286S	C2 PUMP*CD - CD RETURN MFLD	1	0.75	STD	28	12x12 ST	12x12 ST	206127-04	32
68	C2 DRIVE	120120S	C2 DRIVE MTR*CD - CD RETURN MFLD	8	0.75	STD	76	12x12 ST	12x12 90	206127-04	80
69	C2 DRIVE	218601S	C2 PUMP*A - DRIVE MTR*B	8	1.25	HP	78	20x20 ST	20x20 ST	147464-04	83
70	C2 DRIVE	218600S	C2 PUMP*B - DRIVE MTR*A	8	1.25	HP	72	20x20 ST	20x20 ST	147464-04	77
71	C3 DRIVE	120187S	C3 DRIVE MTR*CD - BTM BULK HD - HYD TANK	9	0.75	STD	118	12x12 ST	12x12ST	206127-04	121
72	PROPEL	227315-04S	RR DRIVE LH MTR*A - TOP BULK HD TEE	7	0.75	HP731	36	12x12 ST	12x12 90	206128-04	40
73	PROPEL	227315-04S	RR DRIVE RH MTR*B - TOP BULK HD TEE	7	0.75	HP731	36	12x12 ST	12x12 90	206128-04	40
74	PROPEL	227315-04S	RR DRIVE LH MTR*B - MID BULK HD TEE	7	0.75	HP731	36	12x12 ST	12x12 90	206128-04	40
75	PROPEL	227315-04S	RR DRIVE RH MTR*A - MID BULK HD TEE	7	0.75	HP731	36	12x12 ST	12x12 90	206128-04	40
77	C3 DRIVE	134047S	C3 PUMP*CD - HYD TANK	1	0.75	STD	66	12x12 ST	12x12 90	206127-04	70
78	C3 DRIVE	201255S	C3 PUMP*SUC - HYD TANK	1	1	VAC	51	16x16 ST	16x16 90	206128-04	56
79	C1 DRIVE	201256-04S	LH C1 PUMP*A RETURN - LH TUB LS	6	0.75	HP731	65	12x12 ST	12x12 90	206128-04	69
80	C1 DRIVE	147381-04S	LH C1 PUMP*B PR - LH TUB LS TOP	6	0.75	HP731	26	12x12 ST	12x12 90	206128-04	30
81	C1 DRIVE	201257-04S	RH C1 PUMP*B PR - RH TUB RS	6	0.75	HP731	99	12x12 ST	12x12 90	206128-04	103
82	C1 DRIVE	201258-04S	RH C1 PUMP*A RETURN - RH TUB RS TOP	6	0.75	HP731	110	12x12 ST	12x12 90	206128-04	114
83	AUX & COOLER	93323-04S	AUX PUMP*CD - HYD TANK	1	0.75	STD	43	12x12 ST	12x12 ST	206127-04	47
84	C1 DRIVE	130654S	C1 PUMP*SUC - HYD TANK	1	1.25	VAC	74	20x20 ST	20x20 90	148915-04	79
85	C1 DRIVE	131416S	LH C1 DRIVE MTR*CD - LH TUB RS - CD RETURN MFLD	6	0.75	STD	84	12x12 ST	12x12 ST	206127-04	88
86	C1 DRIVE	232167S	RH C1 DRIVE MTR*CD - RH TUB LS - CD RETURN MFLD	6	0.75	STD	132	12x12 ST	12x12 ST	206127-04	136
87	ENGINE	201297S	DURST DRAIN	1	0.5	STD	82	8x8 ST	8x8 90	147462-04	85
88	C1 HOPPER	146032S	VIBRATOR - PR VALVE*V - IN V.MTR	10	0.25	STD	144	6x4 ST	6x4 45	147462-04	147
89	C1 HOPPER	208527S	VIBRATOR - T VALVE*T - OUT V.MTR	10	0.25	STD	140	6x4 ST	6x4 45	147462-04	143
90	C1 HOPPER	201278S	D HOPPER VALVE*HL - RH ROD E.CYL	10	0.25	STD	134	6x4 ST	6x4 ST	147462-04	137
91	C1 HOPPER	148505S	D HOPPER VALVE*HR - RH BASE CYL	10	0.25	STD	128	6x4 ST	6x4 ST	147462-04	131
92	C1 HOPPER	145430S	D HOPPER VALVE*HR - LH BASE CYL	10	0.25	STD	195	6x4 ST	6x4 ST	147462-04	198
93	C1 HOPPER	209681S	D HOPPER VALVE*HL - LH ROD E.CYL	10	0.25	STD	206	6x4 ST	6x4 ST	147462-04	209
94	C1 RAISE	99646S	C1 HPR CTRLS MFLD*T - C1 LIFT VALVE*T	10	0.5	STD	107	8x8 ST	8x8 90	147462-04	112
95	C1 RAISE	99654S	C1 HPR CTRLS MFLD*P - C1 LIFT VALVE*P	10	0.375	STD	107	6x6 ST	6x6 90	147462-04	112
98	C1 RAISE	99665	C1 LIFT VALVE*B - RH C1 LIFT CYL ROD E.	10	0.375	STD	26	6x6 ST	6x6 90	NO SLEEVE	29
99	C1 RAISE	99666	C1 LIFT VALVE*A - LH C1 LIFT CYL BASE	10	0.375	STD	26	6x6 ST	6x6 ST	NO SLEEVE	29
100	C1 RAISE	120164	C1 LIFT VALVE*A - RH C1 LIFT CYL BASE	10	0.375	STD	23	6x6 ST	6x6 90	NO SLEEVE	26
101	C1 RAISE	120826	C1 LIFT VALVE*B - LH C1 LIFT CYL ROD E.	10	0.375	STD	23	6x6 ST	6x6 ST	NO SLEEVE	26
102	PROPEL	130210S	FR DRIVE LH MTR*CD - FR BULK HD TEE	7	0.5	STD	46	8x8 ST	8x8 90	147462-04	49
103	PROPEL	130210S	FR DRIVE RH MTR*CD - FR BULK HD TEE	7	0.5	STD	46	8x8 ST	8x8 90	147462-04	49
104	PROPEL	97852S	RR DRIVE LH MTR*CD* - BOT BULK HD TEE	7	0.75	STD	40	12x12 ST	12x12 90	206127-04	44
105	PROPEL	125617S	RR DRIVE RH MTR*CD - BOT BULK HD TEE	7	0.75	STD	48	12x12 ST	12x12 90	206127-04	52
106	C1 DRIVE	201286	RH C1 DRIVE MTR*CD - RH TUB LS	6	0.75	STD	162	12x12 ST	12x12 ST	NO SLEEVE	166
107	C1 DRIVE	201286	LH C1 DRIVE MTR*CD - LH TUB RS	6	0.75	STD	162	12x12 ST	12x12 ST	NO SLEEVE	166
108	C1 DRIVE	201287-04	LH C1 DRIVE MTR*B PR - LH TUB LS TOP	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE	166
109	C1 DRIVE	201287-04	LH C1 DRIVE MTR*A RETURN - LH TUB LS	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE	166
110	C1 DRIVE	201287-04	RH C1 DRIVE MTR*A PR - RH TUB RS	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE	166
111	C1 DRIVE	201287-04	RH C1 DRIVE MTR*B RETURN - RH TUB RS TOP	6	0.75	HP731	162	12x12 ST	12x12 ST	NO SLEEVE	166
112	PROPEL	120119S	PROPEL PUMP*CD - CD RETURN MFLD	1	0.75	STD	35	12x12 ST	12x12 ST	206127-04	39
113	ENGINE	141428S	ENG OIL DR	1	0.75	STD	44	12x12 ST	12x12 ST	206127-04	48
114	BRAKES	129391S	DYN BRAKE RH CALP - RR BULK HD TEE	2	0.25	STD	30	4x4 ST	6x4 ST	206126-04	33
115	BRAKES	129391S	DYN BRAKE LH CALP - RR BULK HD TEE	2	0.25	STD	30	4x4 ST	6x4 ST	206126-04	33
117	C3 DRIVE	127788	C3 DRIVE MTR*CD - BTM BULK HD	9	0.75	STD	274	12x12 ST	12x12 ST	NO SLEEVE	278
118	FUME-X	201289S	FXS PUMP*SUC - HYD TANK	1	1	VAC	86	16x16 ST	16x16 90	206128-04	91
120	FUME-X	93621-04S	FXS PUMP*PR - FXS VALVE*P	1	0.5	STD	48	8x8 ST	8x8 90	147462-04	51
122	C3 CONTROLS	93294-04S	C3 SWING TOP JUMPER CYL-CYL	3	0.25	STD	42	6x4 ST	6x4 90	147462-04	45
123	C3 CONTROLS	93294-04S	C3 SWING BOT JUMPER CYL-CYL	3	0.25	STD	42	6x4 ST	6x4 90	147462-04	45

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
124	FUME-X	201290S	FXS VALVE*T - HYD TANK	11	0.5	STD	116	8x8 ST	8x8 ST	147462-04	119
125	BRAKES	130288S	DYN BRAKE JUMPER LH 1ST	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
126	BRAKES	130288S	DYN BRAKE JUMPER LH 2ND	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
127	BRAKES	130288S	DYN BRAKE JUMPER RH 1ST	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
128	BRAKES	130288S	DYN BRAKE JUMPER RH 2ND	2	0.25	STD	5	4x4 ST	4x4 ST	206126-04	7.5
129	FUME-X	93413-04S	FXS C2 MTR*RETURN - HYD TANK	11	0.75	STD	50	12x12 ST	12x12 90	206127-04	54
130	FUME-X	201291S	FXS C1 MTR*RETURN - RH TUB LS	11	0.75	STD	115	12x12 ST	12x12 ST	206127-04	119
131	FUME-X	130139S	FXS C1 MTR*PR - RH TUB RS	11	0.5	STD	110	8x8 ST	8x8 ST	147462-04	113
132	C3 CONTROLS	128974S	C3 COD BULK HD RH - BASE CYL	3	0.25	STD	52	6x4 ST	6x4 90	147462-04	55
133	C3 CONTROLS	122295S	C3 COD BULK HD LH - ROD E.CYL	3	0.25	STD	48	6x4 ST	6x4 90	147462-04	51
134	C3 CONTROLS	130200S	C3 COD VALVE*CB - BULK HD RH	3	0.25	STD	102	6x4 ST	6x4 ST	147462-04	105
135	C3 CONTROLS	130200S	C3 COD VALVE*CA - BULK HD LH	3	0.25	STD	102	6x4 ST	6x4 ST	147462-04	105
136	C3 CONTROLS	201293S	C3 VALVE T1 - AUX RETURN MFLD	3	0.375	STD	35	8x6 ST	8x6 90	147462-04	38
137	C3 CONTROLS	93293-04S	C3 VALVE P1 - AUX PR MFLD	3	0.375	STD	35	6x6 ST	6x6 90	147462-04	38
138	C1 HOPPER	131019S	C1 COD VALVE*CL - BASE CYL	10	0.25	STD	64	6x4 ST	6x4 ST	147462-04	67
139	C1 HOPPER	97396S	C1 COD VALVE*CR - ROD E.CYL	10	0.25	STD	66	6x4 ST	6x4 90	147462-04	69
140	BRAKES	220736S	RR PARK BRAKE VALVE*B - MID BK HD TEE	4	0.25	STD	96	6x4 ST	6x4 90	147462-04	99
141	BRAKES	120147S	RR RH PARK BRAKE - MID BULK HD TEE	2	0.25	STD	45	6x4 ST	6x4 ST	147462-04	48
142	BRAKES	134196S	FR LH PARK BRAKE - FR BULK HD TEE	2	0.25	STD	59	6x4 ST	6x4 ST	147462-04	62
143	BRAKES	120147S	RR LH PARK BRAKE - MID BULK HD TEE	2	0.25	STD	45	6x4 ST	6x4 ST	147462-04	48
144	BRAKES	134196S	FR RH PARK BRAKE - FR BULK HD TEE	2	0.25	STD	59	6x4 ST	6x4 ST	147462-04	62
146	C1 DRIVE	201296-04	RH C1 DRIVE MTR*B RETURN - RH TUB RS TOP	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
147	C1 DRIVE	201296-04	RH C1 DRIVE MTR*A PR - RH TUB RS	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
148	C1 DRIVE	201296-04	LH C1 DRIVE MTR*B PR - LH TUB LS TOP	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
149	C1 DRIVE	201296-04	LH C1 DRIVE MTR*A RETURN - LH TUB LS	6	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
150	PROPEL	201296-04	FR DRIVE MTR'S*RETURN - LH TUB RS	7	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
151	PROPEL	201296-04	FR DRIVE MTR'S*PR - RH TUB LS	7	0.75	HP731	96	12x12 ST	12x12 ST	NO SLEEVE	100
152	C1 DRIVE	125466	RH C1 DRIVE MTR*CD - RH TUB LS TOP	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
153	PROPEL	125466	FR DRIVE MTR'S*CD BK HD TEE - LH TUB RS	7	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
154	C1 DRIVE	125466	LH C1 DRIVE MTR*CD - LH TUB RS TOP	6	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
155	FUME-X	125466	FXS C1 MTR*RT - RH TUB LS	11	0.75	STD	96	12x12 ST	12x12 ST	NO SLEEVE	100
156	FUME-X	93339-04	FXS C1 MTR*PR - RH TUB RS	11	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE	101
157	C1 RAISE	93339-04	C1 AUX RETURN MFLD - RH TUB LS	10	0.5	STD	98	8x8 ST	8x8 ST	NO SLEEVE	101
158	C1 RAISE	201298	C1 AUX PR MFLD - RH TUB RS	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
159	STEERING	201298	L STEER*L - LH TUB LS	5	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
160	STEERING	201298	R STEER*R - LH TUB RS	10	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
164	BRAKES	134495	FR PARK BRAKE BLK HD - LH TUB LS	4	0.25	STD	98	6x4 ST	6x4 ST	NO SLEEVE	101
165	FUME-X	141179-04	FXS VALVE*BL - RH TUB RS	11	0.5	STD	20	8x8 ST	8x8 90	NO SLEEVE	23
166	PROPEL	225606-04S	FR DRIVE LH MTR*B TOP - LH TUB RS	7	0.75	HP731	98	12x12 ST	12x12 45	206128-04	103
167	PROPEL	225606-04S	FR DRIVE RH MTR*B BOT - RH TUB LS	7	0.75	HP731	98	12x12 ST	12x12 45	206128-04	103
168	PROPEL	227317-04S	FR DRIVE RH MTR*A TOP - LH TUB RS	7	0.75	HP731	115	12x12 ST	12x12 45	206128-04	120
169	PROPEL	227317-04S	FR DRIVE LH MTR*A BTM - RH TUB LS	7	0.75	HP731	115	12x12 ST	12x12 45	206128-04	120
170	AUX & COOLER	93331-04S	AUX PR MFLD - HI PRES FLTR	11	0.75	STD	54	12x12 ST	12x12 90	206127-04	59
171	C1 HOPPER	130191S	C1 BAFFLE OPEN VALVE*BE - ROD E.CYL	10	0.25	STD	72	6x4 ST	6x4 90	206126-04	75
172	C1 HOPPER	129837S	C1 BAFFLE CLOSE VALVE *BR - BASE CYL	10	0.25	STD	58	6x4 ST	6x4 90	206126-04	61
173	FUME-X	148614S	FXS C1 MTR*CD - RH TUB MID	11	0.375	STD	110	6x6 ST	6x6 ST	206126-04	113
174	FUME-X	201298	FXS C1 MTR*CD - RH TUB MID - THRU TUB	11	0.375	STD	98	6x6 ST	6x6 ST	NO SLEEVE	101
175	FUME-X	127111S	FXS C1 MTR*CD - RH TUB MID - HYD TANK	11	0.375	STD	130	6x6 ST	6x6 ST	147462-04	133
176	FUME-X	97800S	FXS C2 MTR*CD - HYD TANK	11	0.375	STD	60	6x6 ST	6x6 ST	147462-04	63
178	C1 PUSH ROLLER	99660S	PUSH ROLLER VALVE*T - C1 LIFT VALVE*T1	10	0.5	STD	110	8x8 ST	8X8 90	147462-04	113
179	C1 PUSH ROLLER	121546S	PUSH ROLLER VALVE*P - C1 LIFT VALVE*P1	10	0.375	STD	120	6x6 ST	6x6 90	147462-04	123
180	C1 PUSH ROLLER	97859S	PUSH ROLLER VALVE - LH BASE CYL	10	0.25	STD	100	6x4 ST	6x4 ST	206126-04	103
181	C1 PUSH ROLLER	129836S	PUSH ROLLER VALVE - LH ROD E.CYL	10	0.25	STD	105	6x4 ST	6x4 ST	206126-04	108
182	C1 PUSH ROLLER	136270S	PUSH ROLLER VALVE - RH BASE CYL	10	0.25	STD	185	6x4 ST	6x4 ST	206126-04	188
183	C1 PUSH ROLLER	127046S	PUSH ROLLER VALVE - RH ROD E.CYL	10	0.25	STD	192	6x4 ST	6x4 ST	206126-04	195
184	C1 RAISE	215255	VIBRATOR CD - LH TUB LS	10	0.25	STD	98	6x4 ST	6x4 ST	NO SLEEVE	101
185	C1 RAISE	215256S	VIBRATOR CD - LH TUB LS - HYD TANK	10	0.25	STD	87	6x4 ST	6x4 ST	206126-04	90
186	C1 RAISE	137649S	VBTR CD - BLK HD @ C1 LIFT MFLD BKT	10	0.25	STD	245	4x4 ST	6x4 ST	206126-04	248
187	C1 RAISE	215258S	VBTR CD BLK HD @ C1 LIFT MFLD BKT - LH TUB LS	10	0.25	STD	102	6x4 ST	6x4 45	206126-04	105

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
188	FUME-X	130007S	FXS C2 MTR*PR - C1 MTR*RETURN RH TUB LS	11	0.75	STD	142	12x12 ST	12x12 90	206127-04	146
19A	FLOWGATES	201220S	FLOWGATES VALVE*RB - LH TUB RS	2	0.25	STD	9	6x4 ST	6x4 45	206126-04	12
19B	FLOWGATES	231534-04	FLOWGATES LH TUB RS - ROD E.CYL	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE	76
20A	FLOWGATES	201220S	FLOWGATES VALVE*RA - LH TUB LS	2	0.25	STD	9	6x4 ST	6x4 45	206126-04	12
20B	FLOWGATES	231535-04	FLOWGATES LH TUB LS - BASE CYL	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE	68
21A	FLOWGATES	217149S	FLOWGATES VALVE*FB - RH TUB RS	2	0.25	STD	112	6x4 ST	6x4 LN 90	206126-04	115
21B	FLOWGATES	231534-04	FLOWGATES RH TUB RS - ROD E.CYL	2	0.375	HT	74	6x6 ST	6x6 ST	NO SLEEVE	76
22A	FLOWGATES	128022S	FLOWGATES VALVE*FA - RH TUB LS	2	0.25	STD	112	6x4 ST	6x4 90	206126-04	115
22B	FLOWGATES	231535-04	FLOWGATES RH TUB LS - BASE CYL	2	0.375	HT	66	6x6 ST	6x6 ST	NO SLEEVE	68
31A	BRAKES	120107S	FR PARK BRAKE VALVE*B - LH TUB LS	4	0.25	STD	34	6x4 ST	6x4 ST	206126-04	37
31B	BRAKES	204038S	FR PARK BRAKE LH TUB LS - F BULK HD	4	0.25	STD	80	6x4 ST	6x4 45	206126-04	83
40A	PROPEL	131416S	FR DRIVE*CD LH TUB RS - CD RETURN MFLD	7	0.75	STD	84	12x12 ST	12x12 ST	206127-04	88
40B	PROPEL	127141S	FR DRIVE MTR*CD F BK HD TEE - LH TUB RS	7	0.75	STD	74	12x12 ST	12x12 90	206127-04	78
54A	STEERING	134503S	L STEER VALVE*L - LH TUB LS	5	0.375	STD	156	6x6 ST	6x6 LN 90	147462-04	159
54B	STEERING	224375S	L STEER LH TUB LS - LH BASE CYL	5	0.375	STD	96	6x6 ST	6x6 45	147462-04	99
57A	STEERING	128235S	R STEER VALVE*R - LH TUB RS	5	0.375	STD	156	6x6 ST	6x6 90	147462-04	159
57B	STEERING	224375S	R STEER LH TUB RS - RH BASE CYL	5	0.375	STD	96	6x6 ST	6x6 45	147462-04	99
96A	C1 RAISE	120747S	C1 LIFT AUX RETURN MFLD - RH TUB LS	5	0.5	STD	105	8x8 ST	8x8 90	147462-04	108
96B	C1 RAISE	200387S	C1 LIFT VALVE*T1 - RH TUB LS	5	0.5	STD	120	8x8 ST	8x8 45	147462-04	123
97A	C1 RAISE	217151S	C1 LIFT AUX PR MFLD - RH TUB RS	5	0.375	STD	97	6x6 ST	6x6 LN 90	147462-04	100
97B	C1 RAISE	217152S	C1 LIFT VALVE*P1 - RH TUB RS	5	0.375	STD	120	6x6 ST	6x6 45	147462-04	123

HOSE #	CIRCUIT	ROADTEC PN	FUNCTION	Tier#	HOSE SIZE	HOSE TYP	HOSE & SLEEVE CUT LENGTH	HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.

QTY	CIRCUIT	ROADTEC PN	FUNCTION	HOSE SIZE	HOSE TYP		HOSE END #1	HOSE END #2	SLEEVE PN	O.A.L.
2	GREASE LINE	134178-04	C-1 REAR IDLER BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	85
2	GREASE LINE	134227-04	C-1 CENTER IDLER BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	24.5
2	GREASE LINE	149681-04	C-1 FOOTSHAFT INNER BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	70
2	GREASE LINE	134613-04	C-2 FOOTSHAFT INNER BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	102
4	GREASE LINE	144367-04	C-2 IDLER BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	36
2	GREASE LINE	144367-04	C-3 HEADSHAFT BRNGS	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	36
2	GREASE LINE	134217-04	C-3 PIVOT BOX TUBE	0.25	919		4x4 ST	4x4 ST	NO SLEEVE	17.5

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

REVISION	DATE	DESCRIPTION	BY

MANUAL OVERRIDE
"B" "O" "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

0.040

0.046

350 PSI

G

FROM AUX. PRESSURE MANIFOLD

HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

.032" ORIFICE

PS

P (UP TO 55 GPM)

PROPEL CIRCUIT

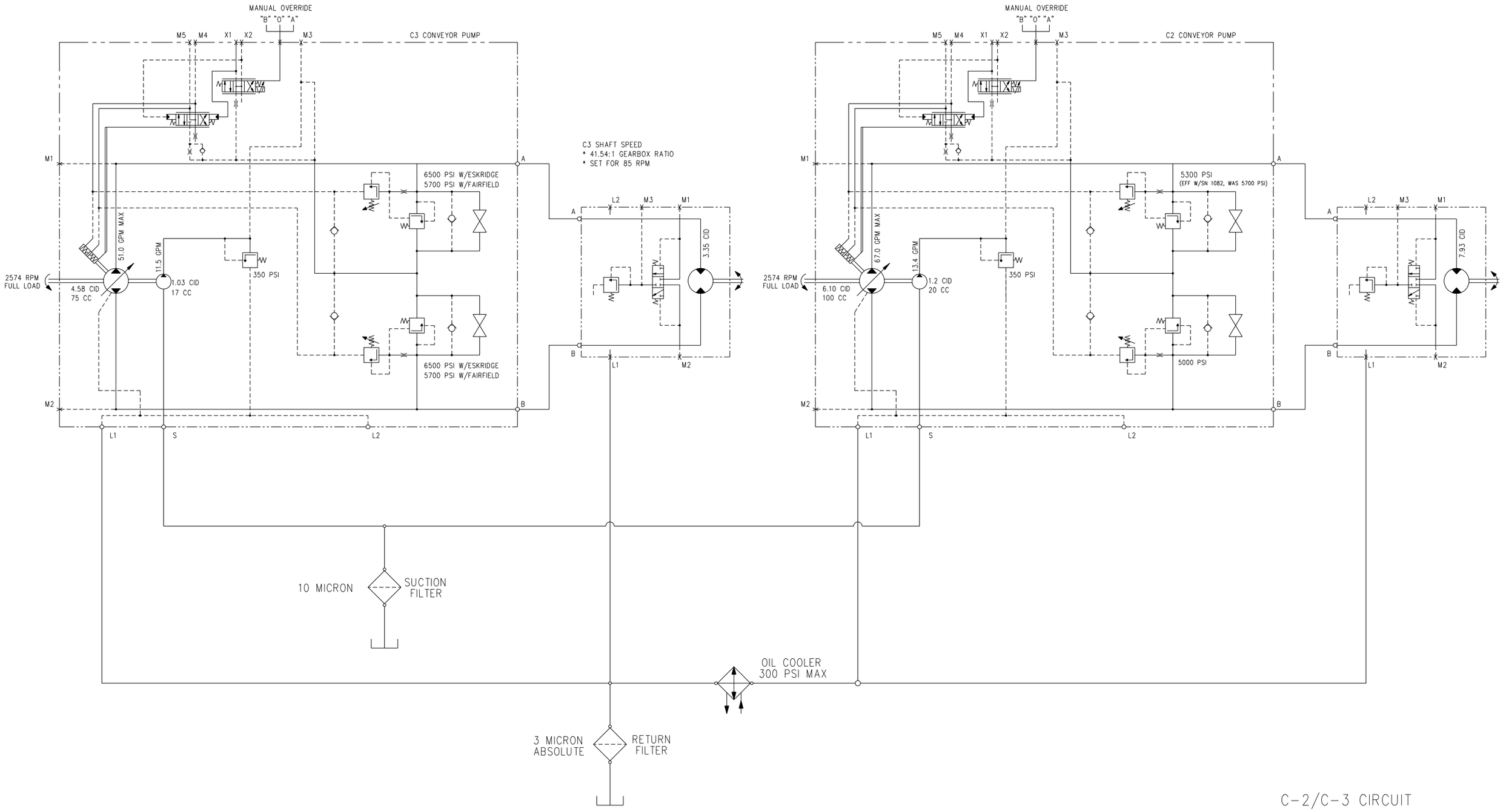
REPLACES DWG #230745-01 EC# 1697

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 1109
DRAWN BY JEH / CHECKED BY			
SCALE 3/4 / DATE 10/29/09	DWG NO 235483-01		REV. A



C-2/C-3 CIRCUIT

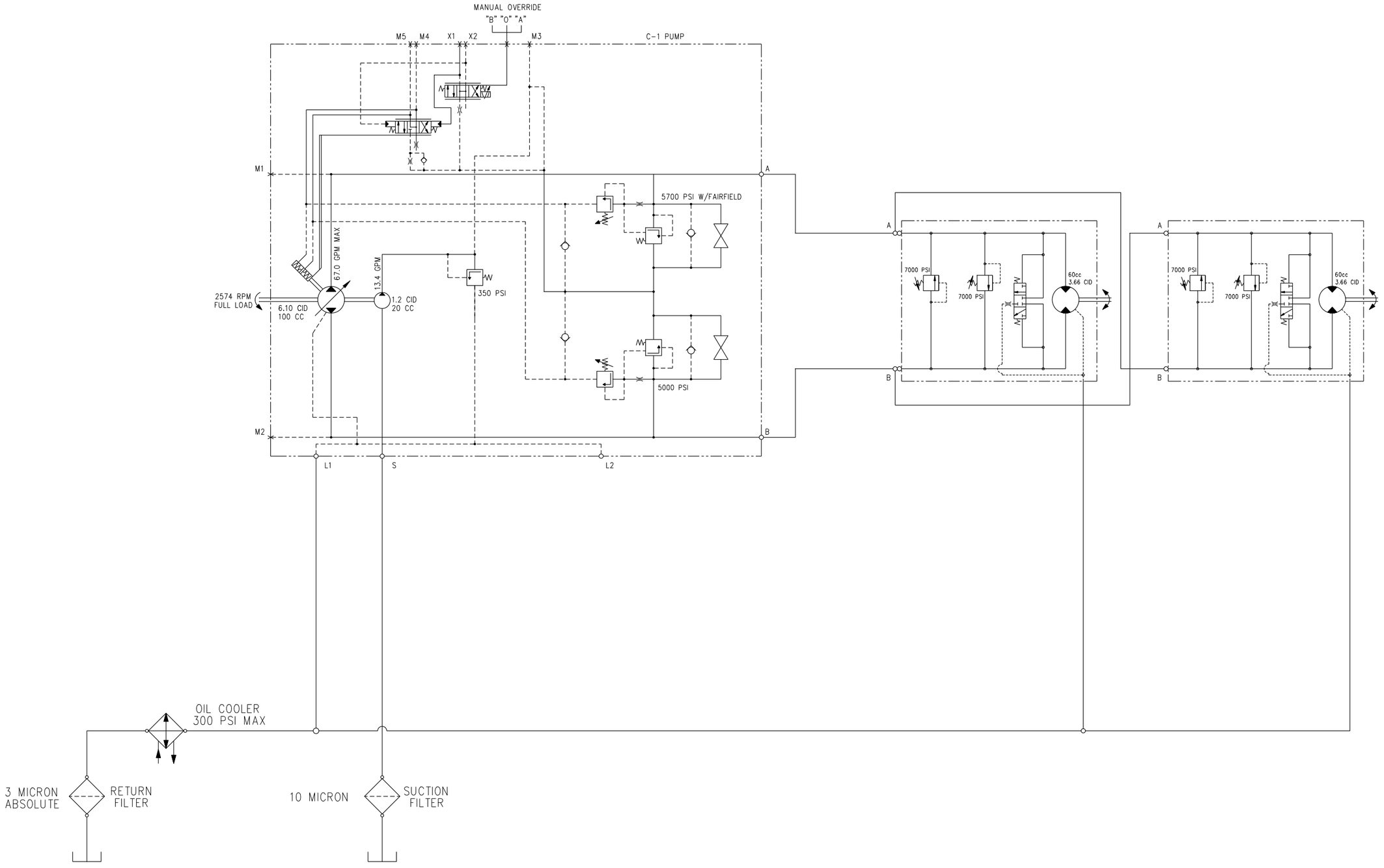
all fractional dim's 1/32" – all decimal dim's .005 unless noted

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 1109
DRAWN BY JEH / CHECKED BY	DWG NO 235483-01		REV. A
SCALE 3/4	DATE 10/29/09		



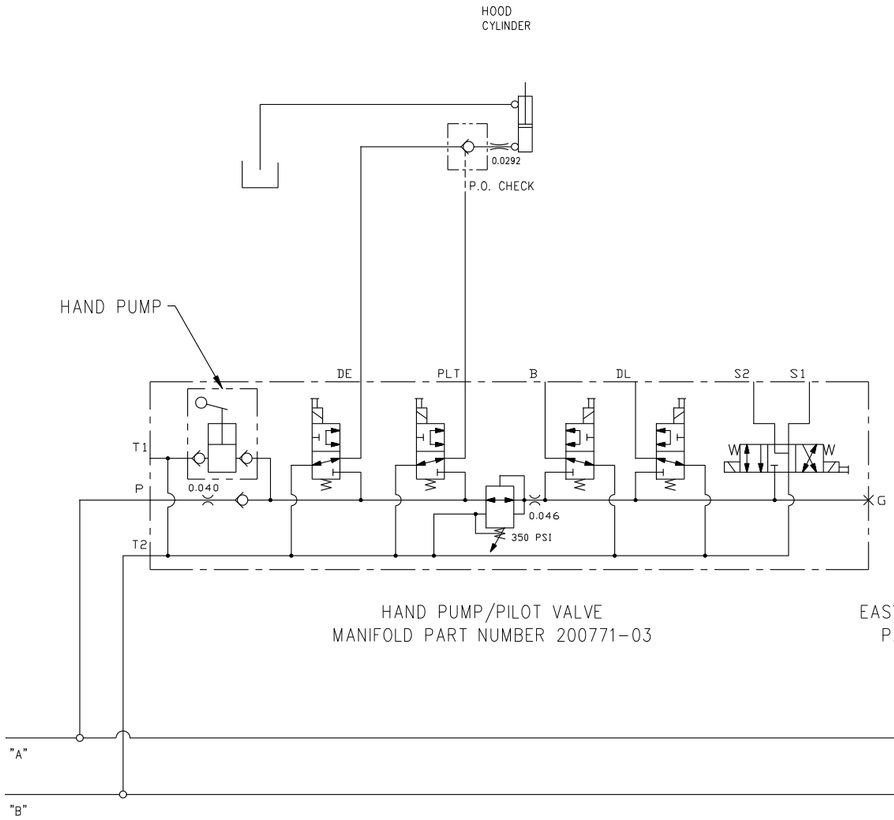
C-1 CIRCUIT

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

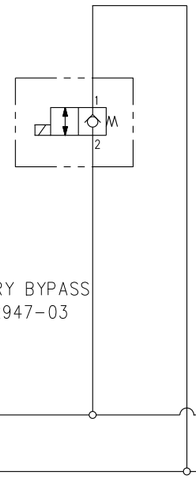
REV.	E.C.N.	DATE	REVISIONS	CH'G. BY	APPR. BY

ROADTEC

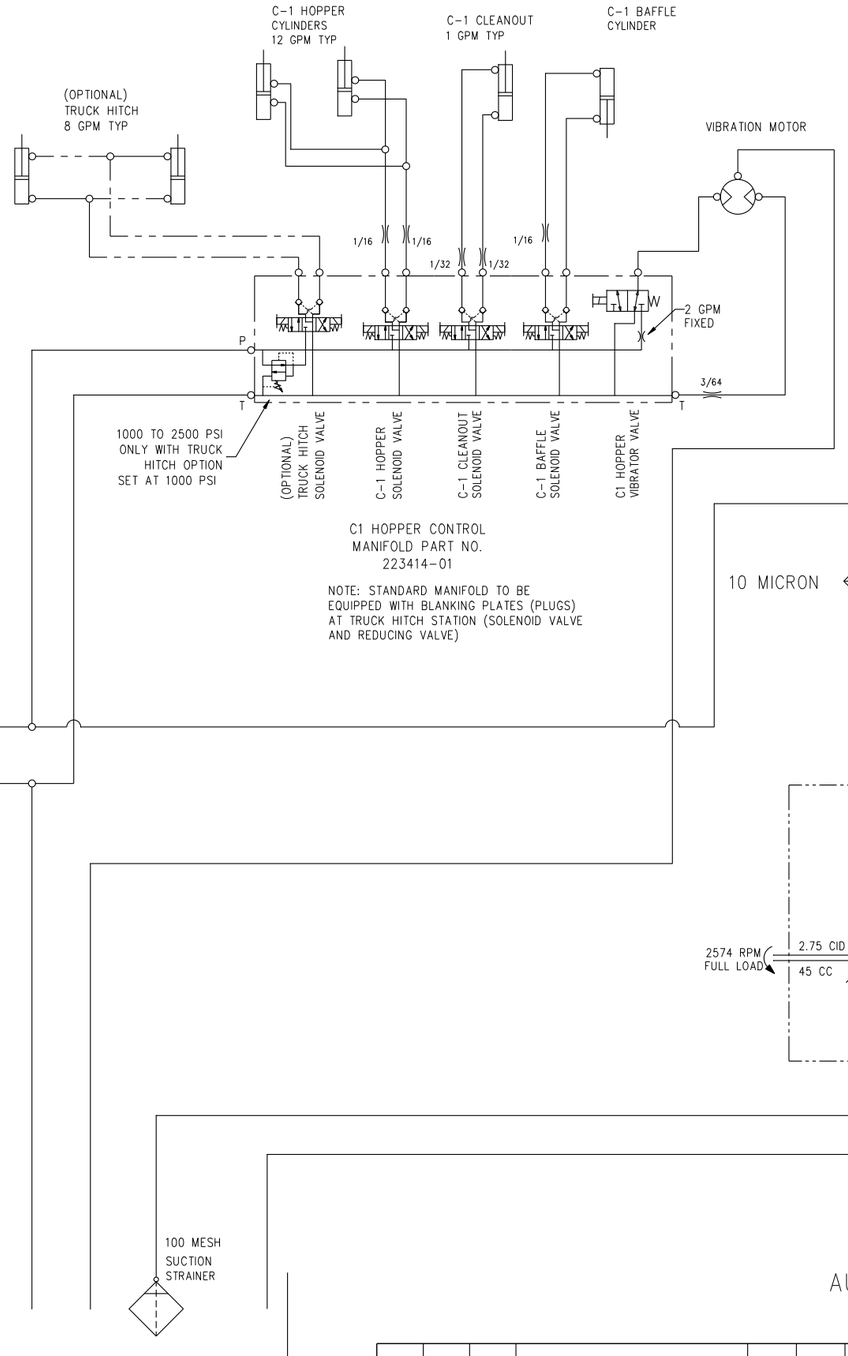
PART NAME: SCHEMATIC SB 2500D HYDRAULIC			
01 REQ'D PER 2500D	SHEET NO: 3 of 6	FAB CODE: 615	EFFECTIVE S/N: 1109
DRAWN BY: JEH	CHECKED BY:	DWG NO: 235483-01	REV: A
SCALE: 3/4	DATE: 10/29/09		



HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

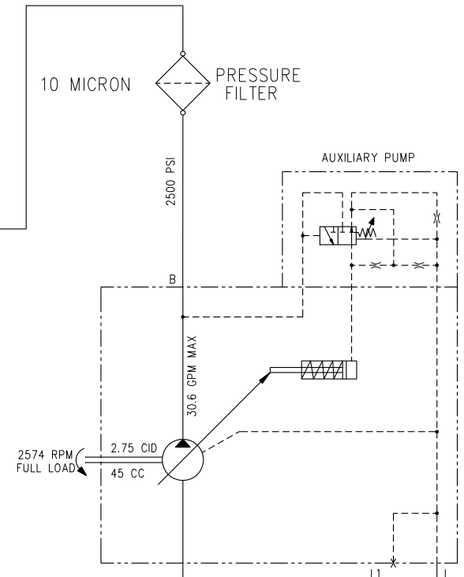


EASY START AUXILARY BYPASS
PART NUMBER 212947-03



C1 HOPPER CONTROL
MANIFOLD PART NO.
223414-01

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



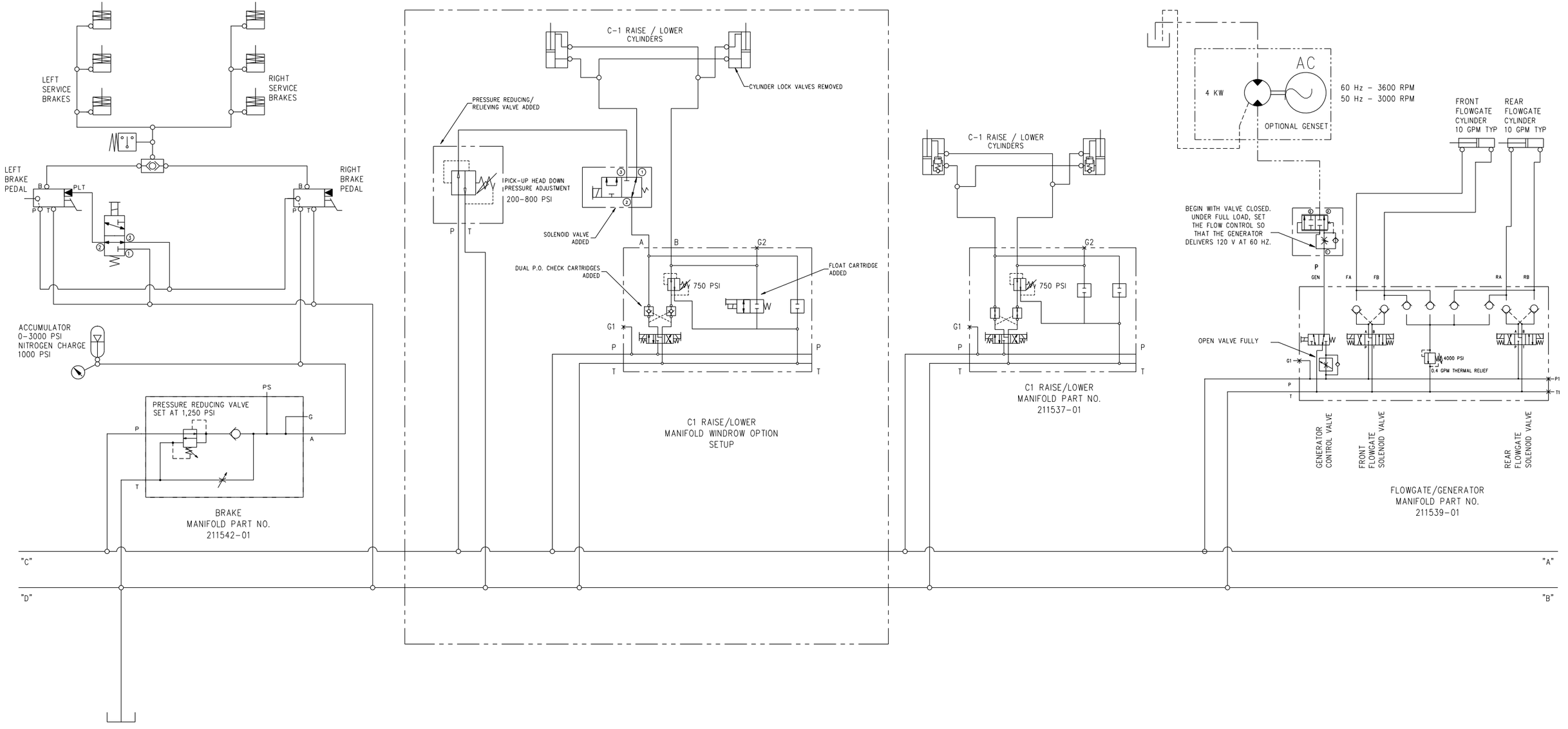
AUXILIARY CIRCUIT

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: 1109
DRAWN BY: JEH	CHECKED BY:	DWG NO: 235483-01	REV: A
SCALE: 3/4	DATE: 10/29/09		



AUXILIARY CIRCUIT (CON'T)

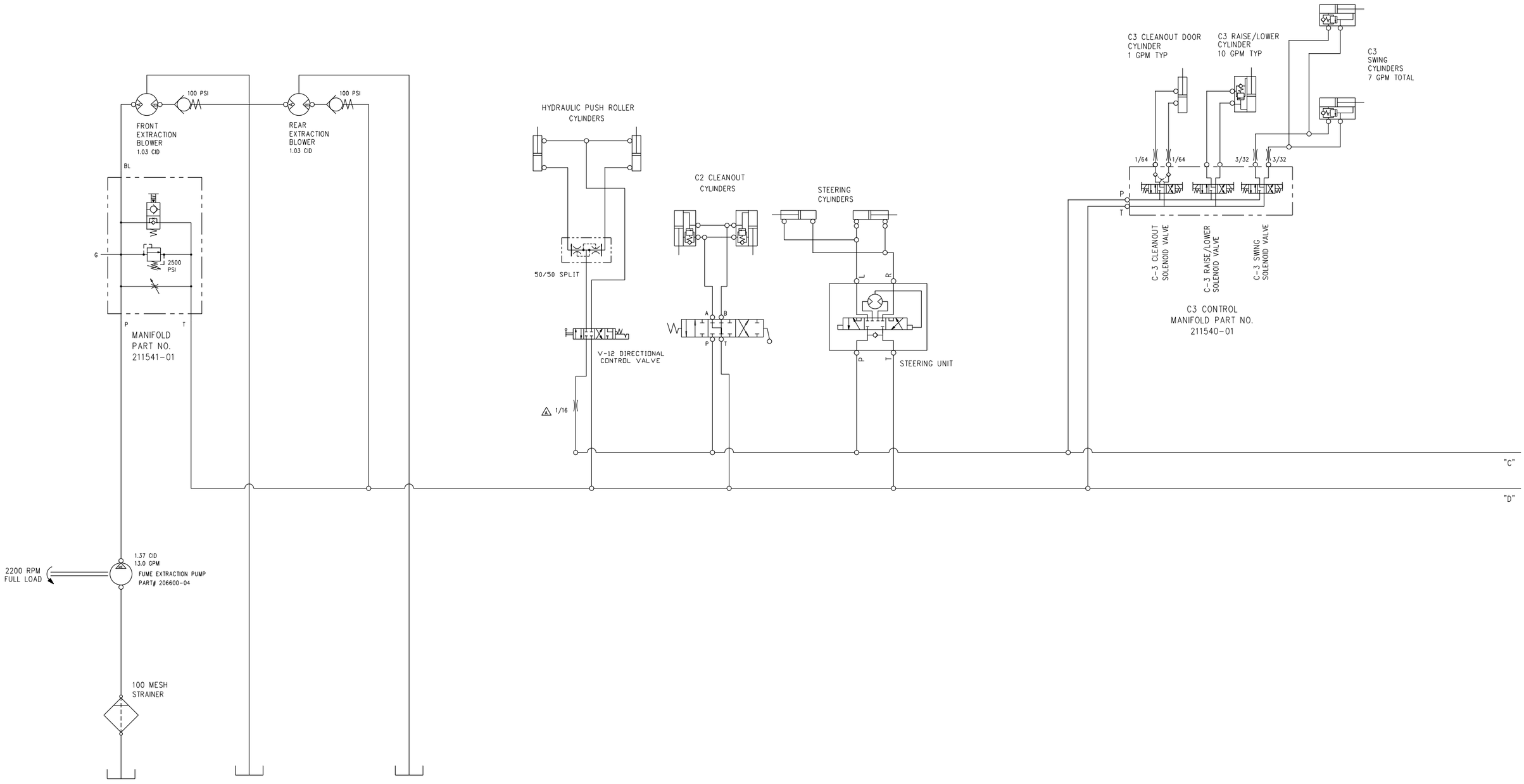
all fractional dim's 1/32" - all decimal dim's .005 unless noted

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 1109	
DRAWN BY JEH	CHECKED BY	DWG NO 235483-01		REV. A
SCALE 3/4	DATE 10/29/09			



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

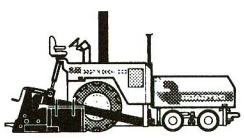
ROADTEC

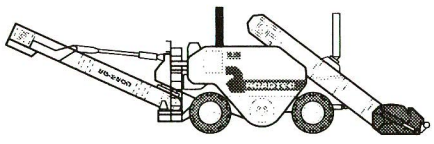
PART NAME: SCHEMATIC SB 2500D HYDRAULIC			
01 REQ'D PER 2500D	SHEET NO: 6 of 6	FAB CODE: 615	EFFECTIVE S/N: 1109
DRAWN BY: JEH	CHECKED BY:	DWG NO: 235483-01	REV.: A
SCALE: 3/4	DATE: 10/29/09		

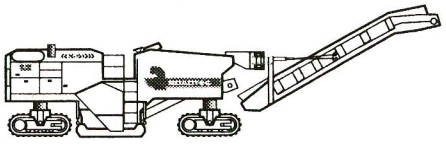
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423-265-0600 • FAX 423-265-7521

TOLL FREE 800-272-7100







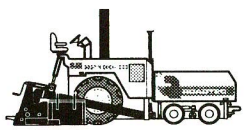
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

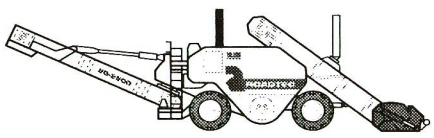
ROADTEC
an Astec Industries Company

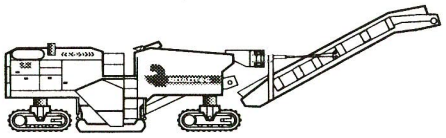
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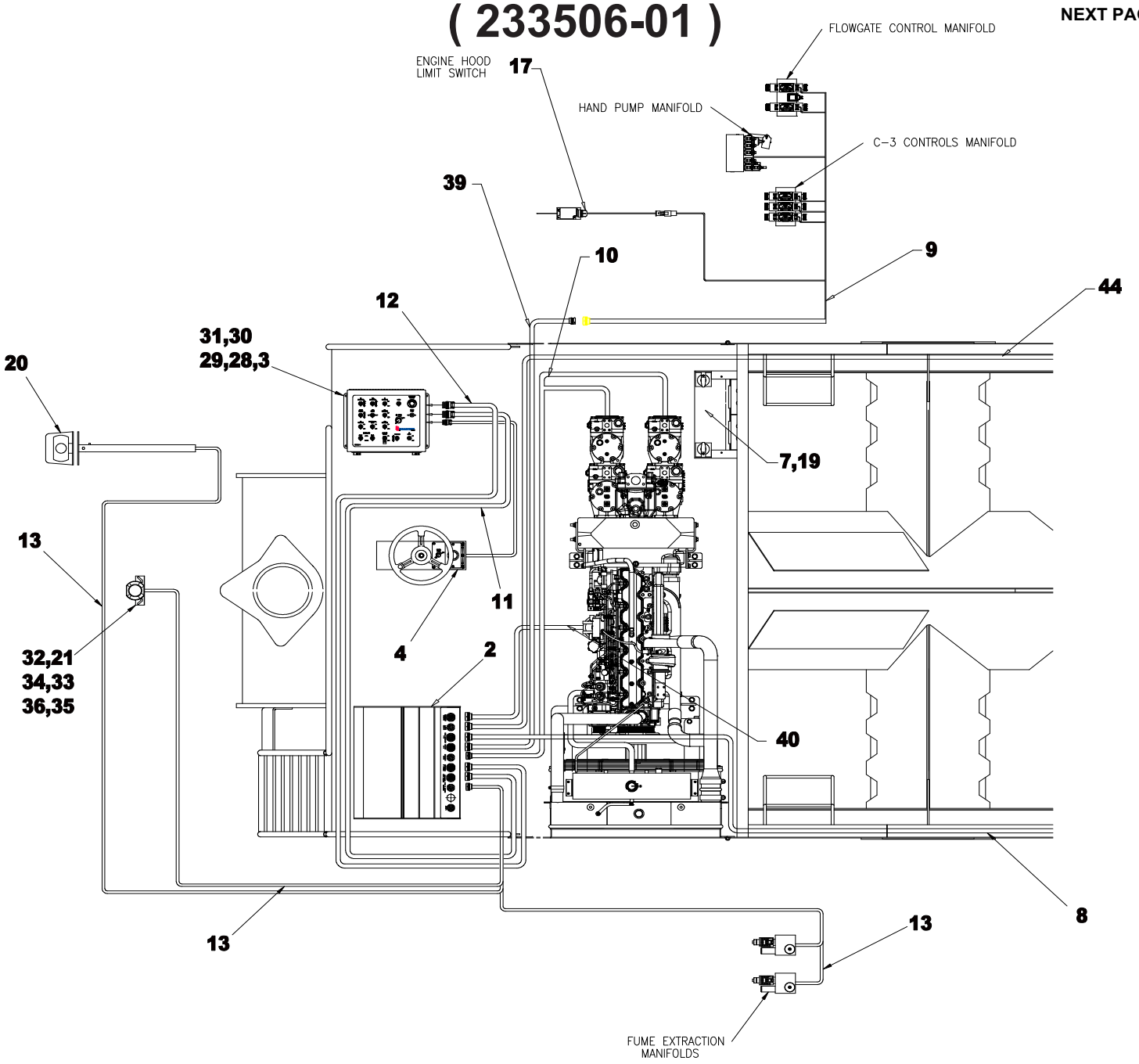
ROADTEC
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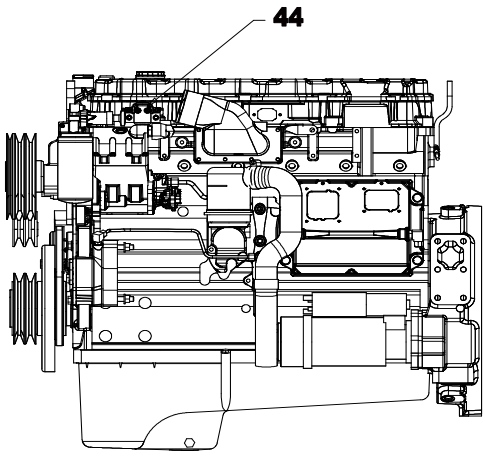
SECTION 6 : ELECTRICAL

ASSEMBLY	PART NO.	S/N	PAGE NO.
ELECTRICAL	233506-01	1148 & 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		

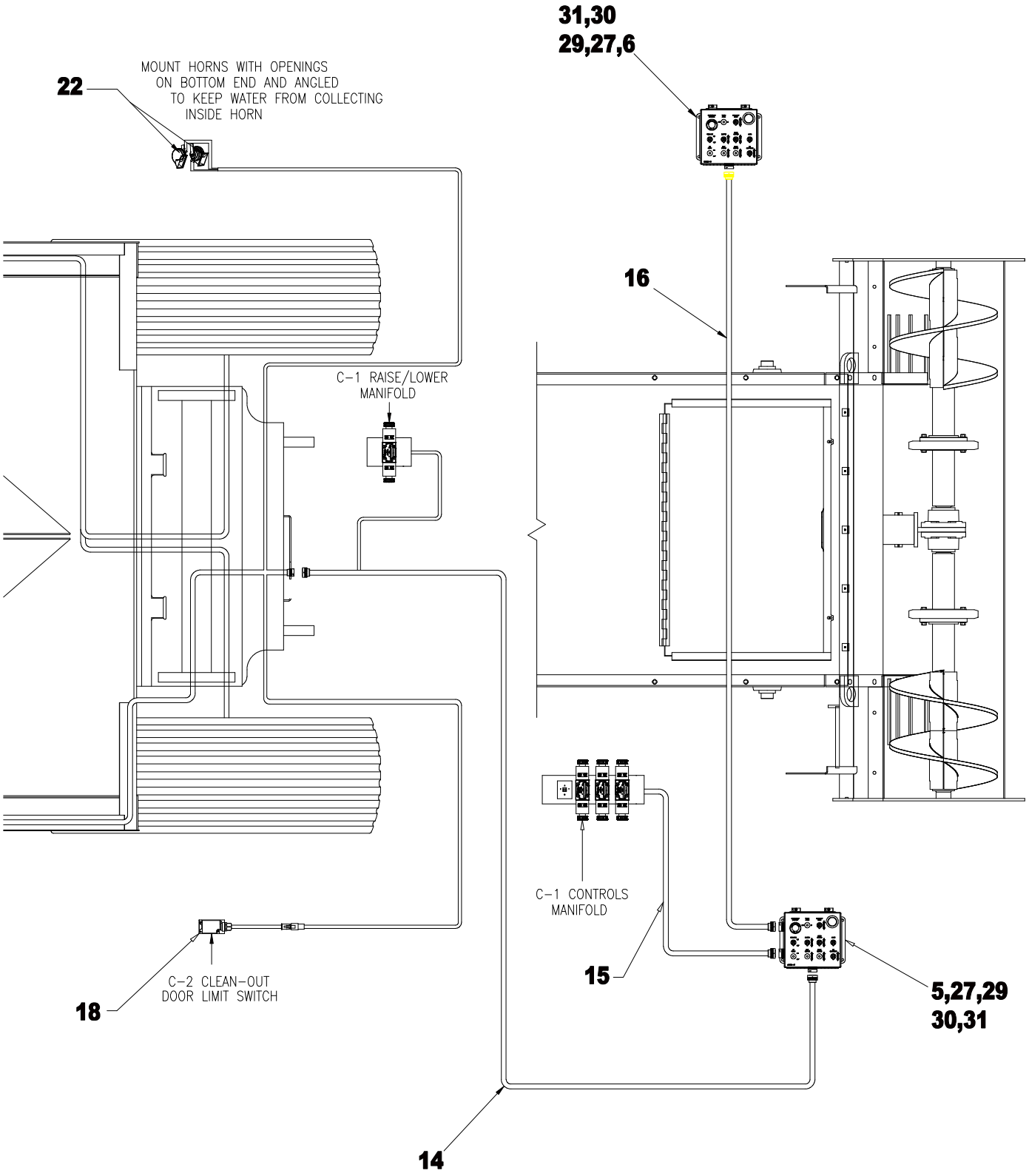
SB-2500D ELECTRICAL ASSEMBLY
(233506-01)

NEXT PAGE





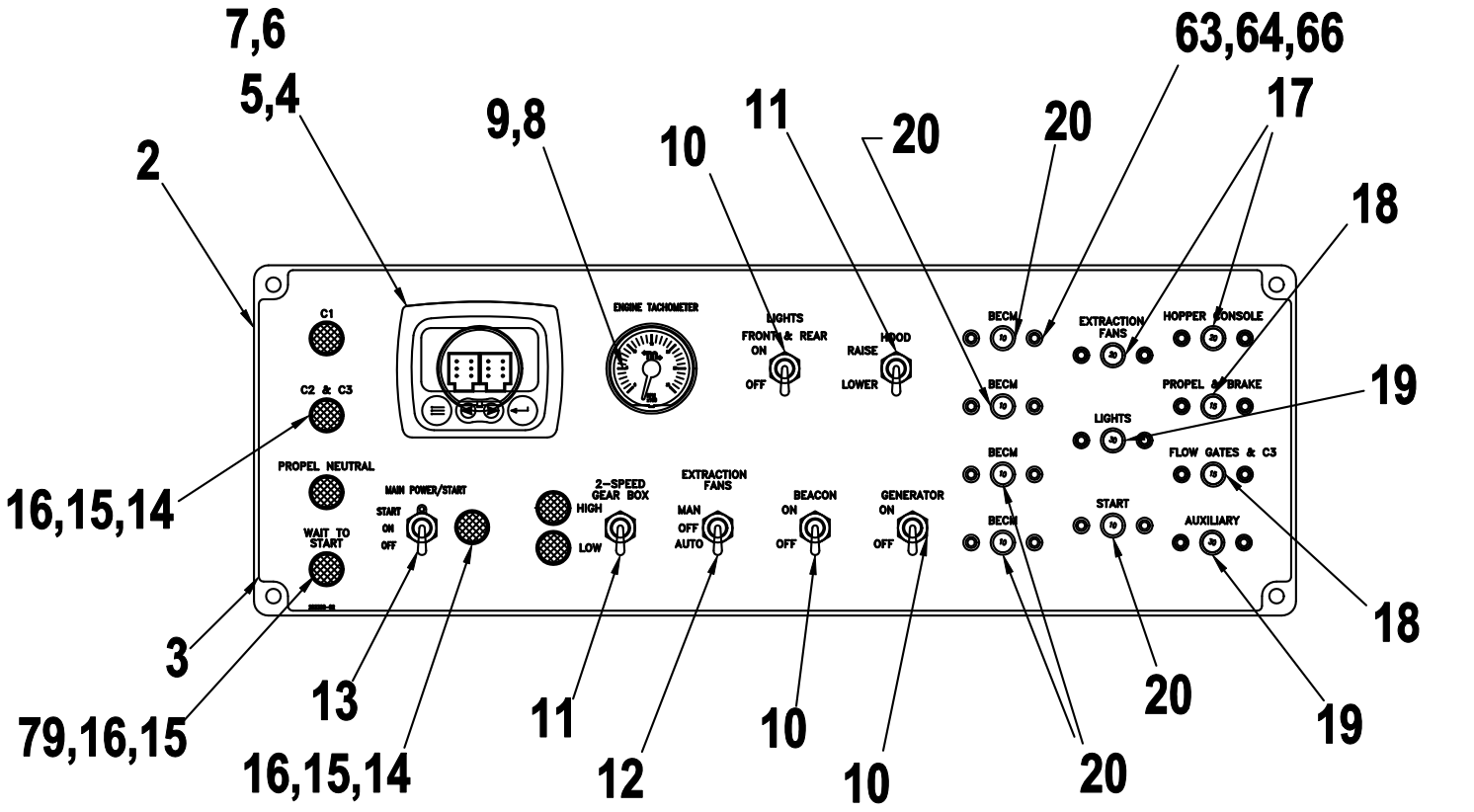
SB-2500D ELECTRICAL ASSEMBLY
(233506-01)

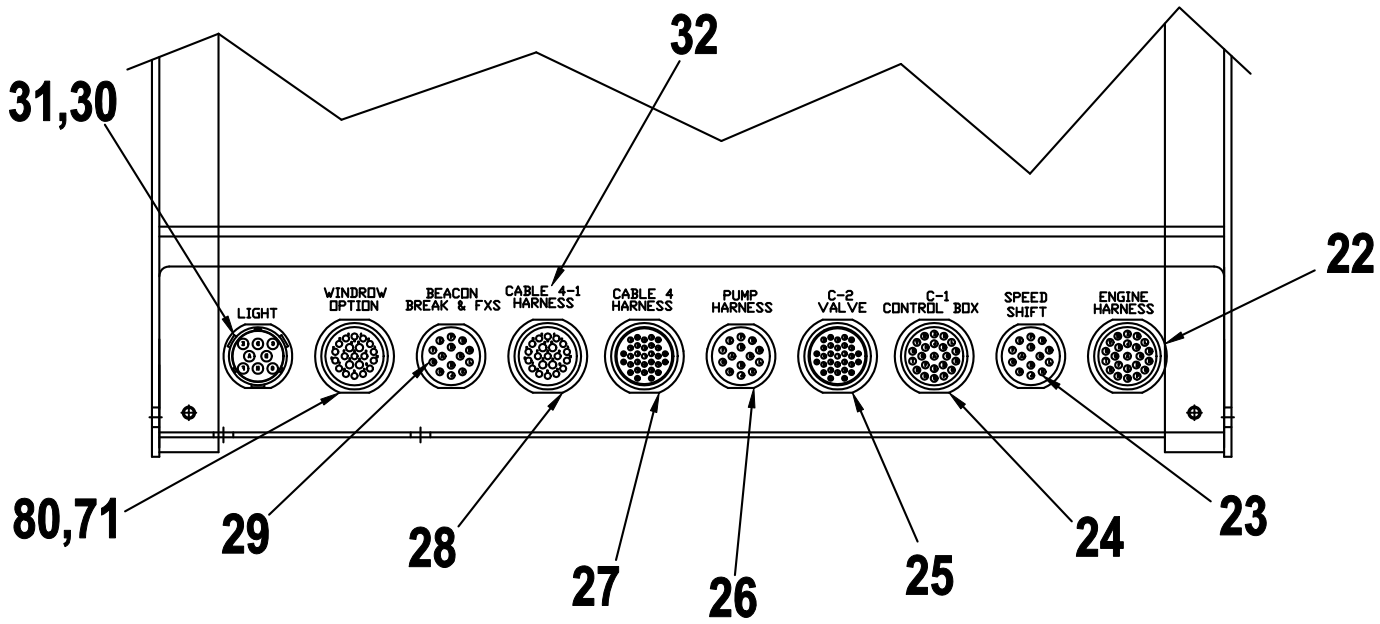


ELECTRICAL ASSEMBLY
(233506-01)

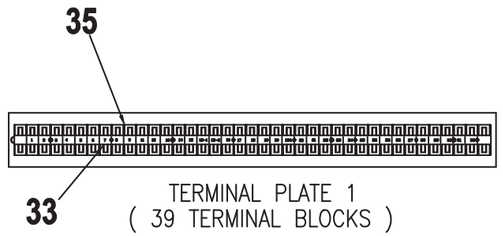
ITEM #	PART NO.	DESCRIPTION	QTY.
1	230667-01	ELECTRICAL SCHEMATIC	1
2	230623-01	OPERATOR CONSOLE ELECTRICAL	1
3	SEE KIT	STEERING BOX ELECTRICAL ASSY.	REF
4	230616-03	OPERATOR DRIVE CONSOLE ELECTRICAL	1
5	SEE KIT	RH C1 CONTROL BOX ASSY.	REF
6	SEE KIT	LH C1 CONTROL BOX ASSY.	REF
7	227507-02	BATTERY & ISO 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 CLEANOUT DOOR	1
19	SEE KIT	WIRE HARNESS - BREAKER & WASHDOWN	REF
20	214370-01	STROBE LIGHT ASSY.	1
21	215976-03	ALARM - REVERSING 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" SPRING STEEL	16
32	84332	HEX BOLT - 3/8-16 UNC X 1"	2
33	83055	HEX NUT - 3/8-16 UNC GR8	2
34	83757	FLAT WASHER - 3/8" STEEL	4
35	83056	LOCK WASHER - 3/8" SPRING STEEL	2
36	139702-04	STAR WASHER - 3/8" INTERNAL EXTERNAL	1
37	233505-02	KIT - WIRE HARNESS & BOXES	1
38	38Z57	MALE CONNECTOR	18
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	222313-04	ELEC - SOLENOID 12V-200 AMP	1
45	SEE KIT	SPEED SHIFT	REF
46	97735	FEMALE CONNECTOR	18

CENTER CONSOLE ELECTRICAL ASSEMBLY
(230623-01)

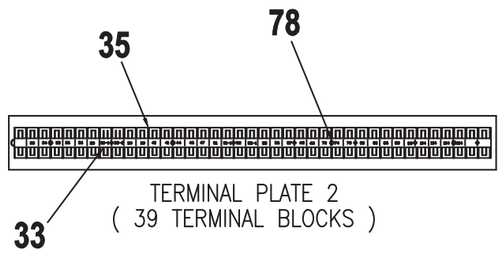




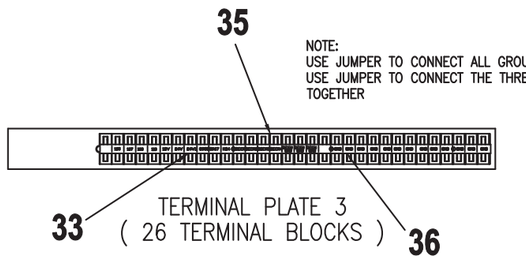
NOTE:
THE FOLLOWING TERMINAL STRIP NUMBER ARE JUMPED
11 TO 12
19 TO 19
26 TO 26
36 TO 36
39 TO 39
80 TO 80
104 TO 104
ALL GND
BECM GROUND



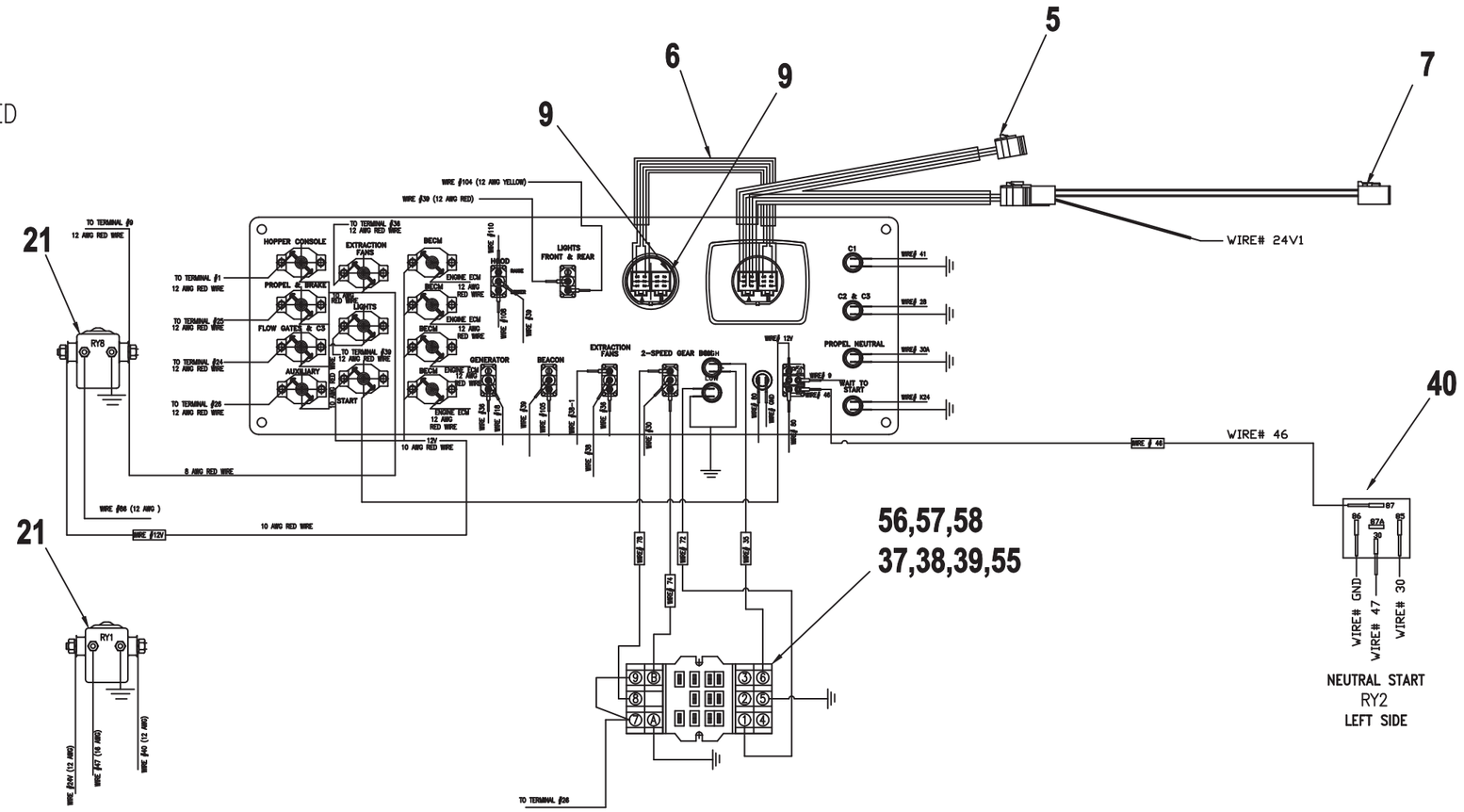
TERMINAL PLATE 1
(39 TERMINAL BLOCKS)

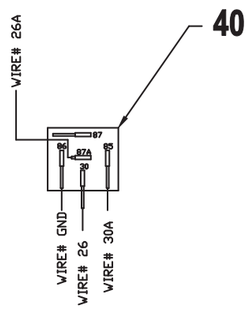


TERMINAL PLATE 2
(39 TERMINAL BLOCKS)

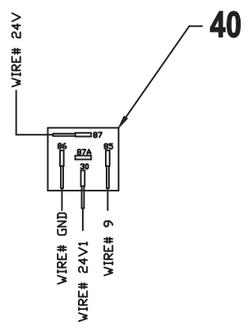


TERMINAL PLATE 3
(26 TERMINAL BLOCKS)

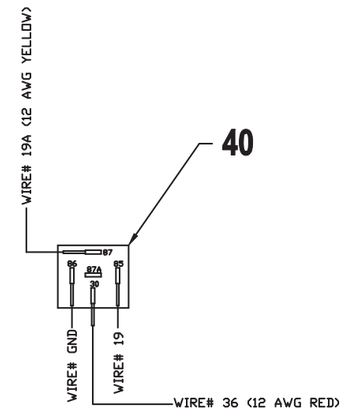




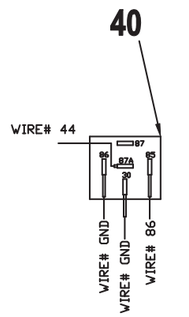
NEUTRAL INTERLOCK
RELAY
RY10



MURPHY GAUGE
RELAY
RY1



HORN RELAY
RY7



ENGINE SHUTDOWN
RY3
RIGHT SIDE

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

ROADTEC

PART NAME: CENTER CONSOLE ELECTRICAL ASSEMBLY				
1 REQ'D PER SB2500D		SHEET NO 2 OF 2	FAB CODE 603	EFFECTIVE S/N 1091
DRAWN BY JW	TOTAL WT. (LBS) 138.29	DWG NO 230623-01		REV. 0
SCALE 1/4=1	DATE 9-21-09			

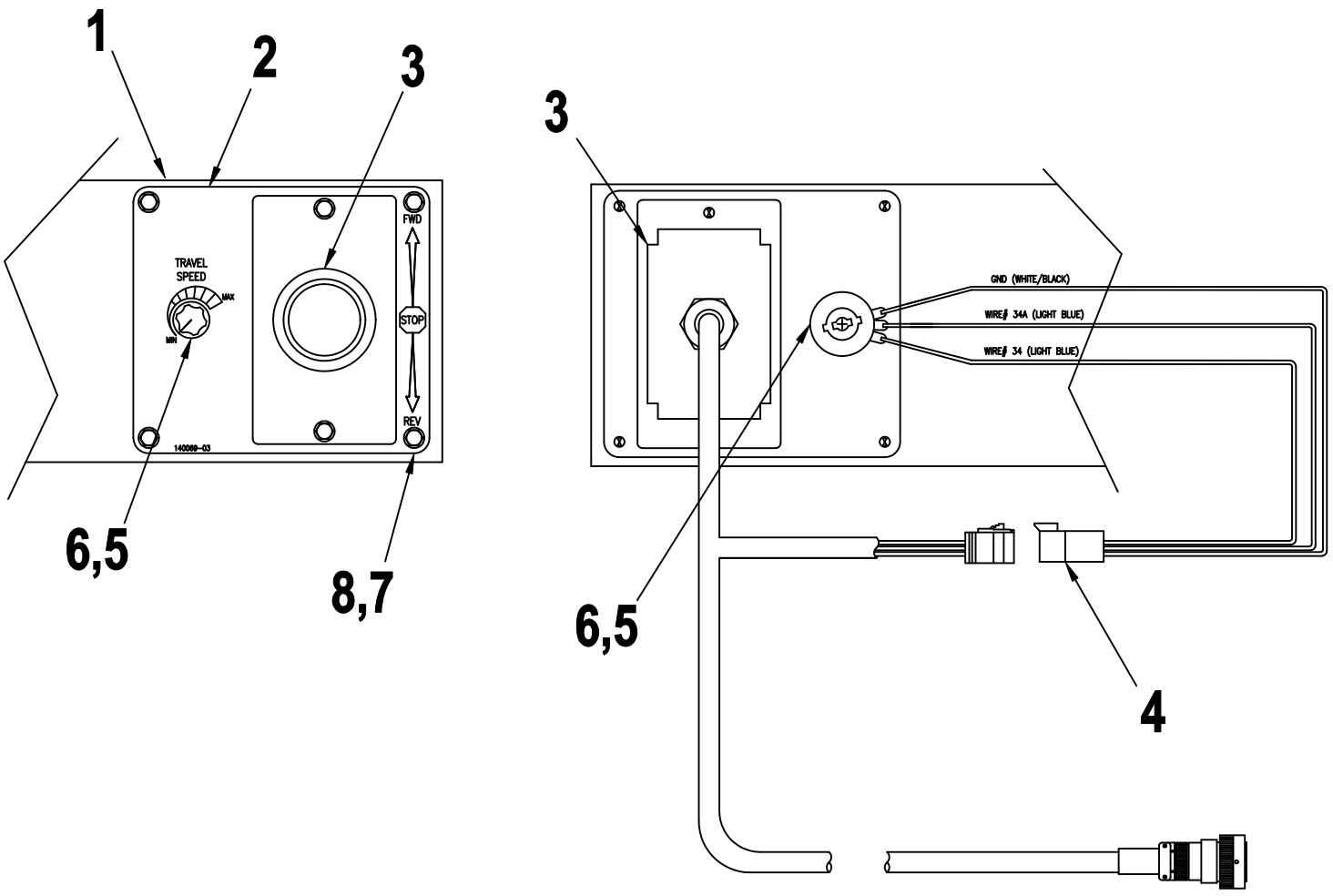
CENTER CONSOLE ELECTRICAL ASSY. (230623-01)

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)

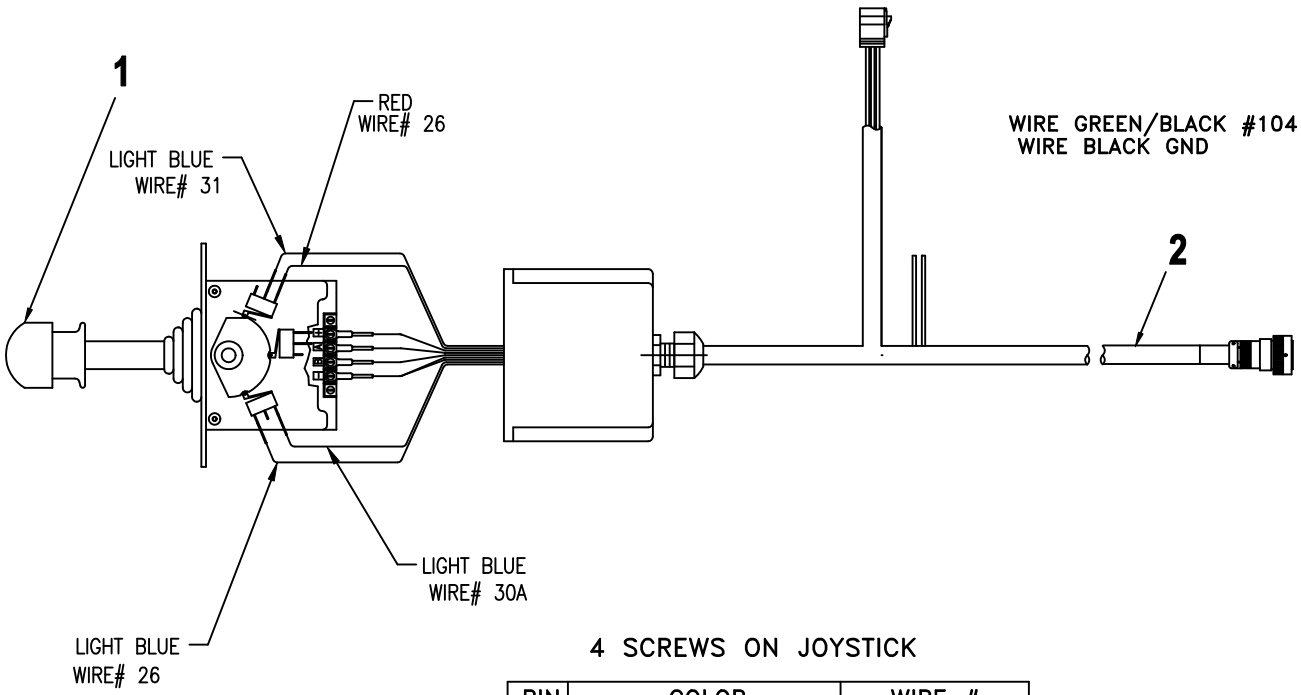
ITEM #	PART NO.	DESCRIPTION	QTY.
46	90553	RING TERMINAL 1/4	2
47	93988	STUD - 10 AWG 5/16	3
48	128219	RING TERMINAL	4
49	97735	FEMALE TERMINAL	6
50	121539	MALE TERMINAL	3
51	98319	FEMALE SPADE TERMINAL	10
52	83856-04	WIRE TIE - 3/16 X 4	57
53	126976	WIRE TIE - 3/16 X 5 1/2"	43
54	83657-04	WIRE TIE - 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

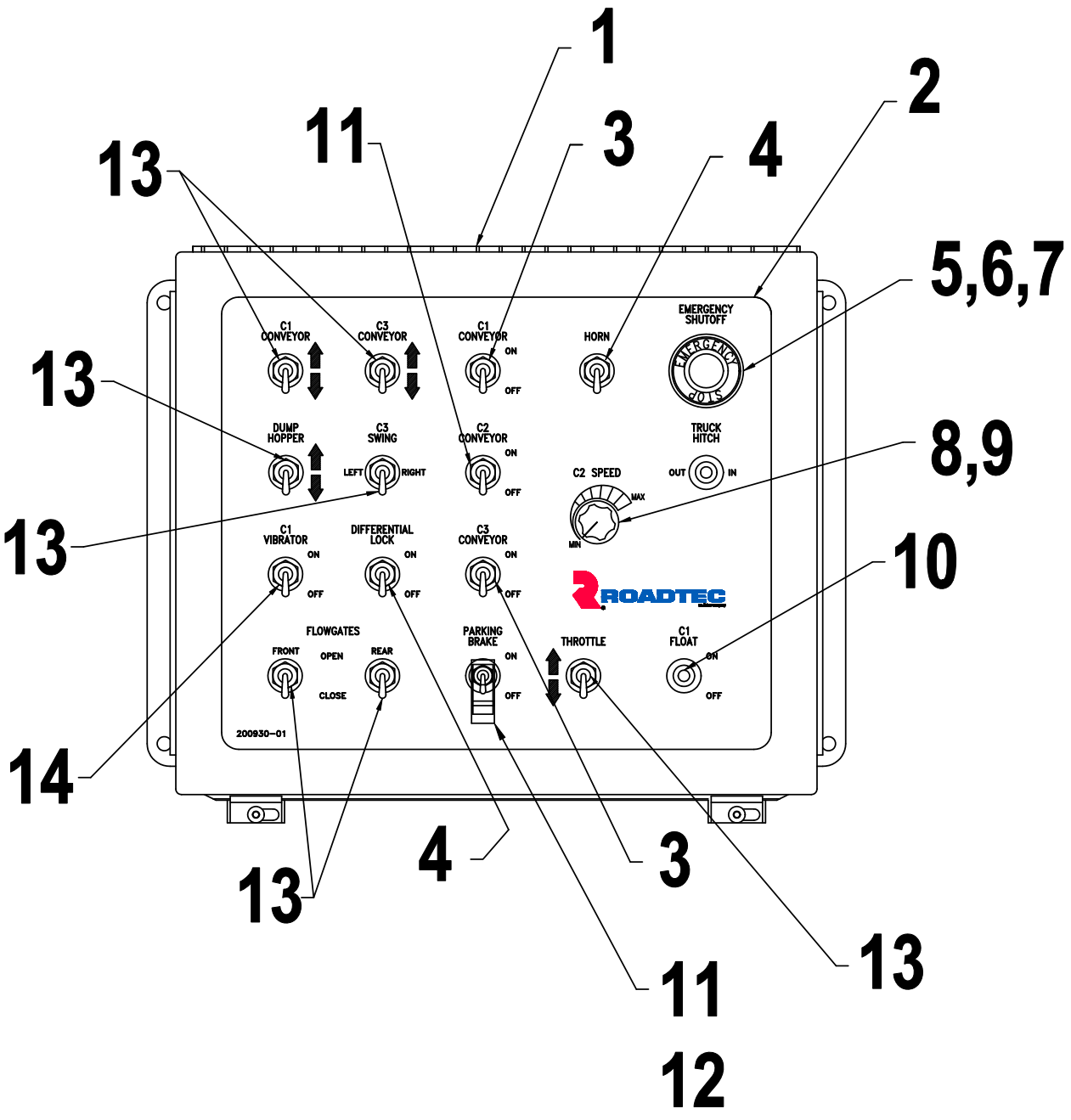
PIN	COLOR	WIRE #
–	WHITE/BLACK	GND
B	LIGHT BLUE	33
A	LIGHT BLUE	32
+	LIGHT BLUE	34A

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

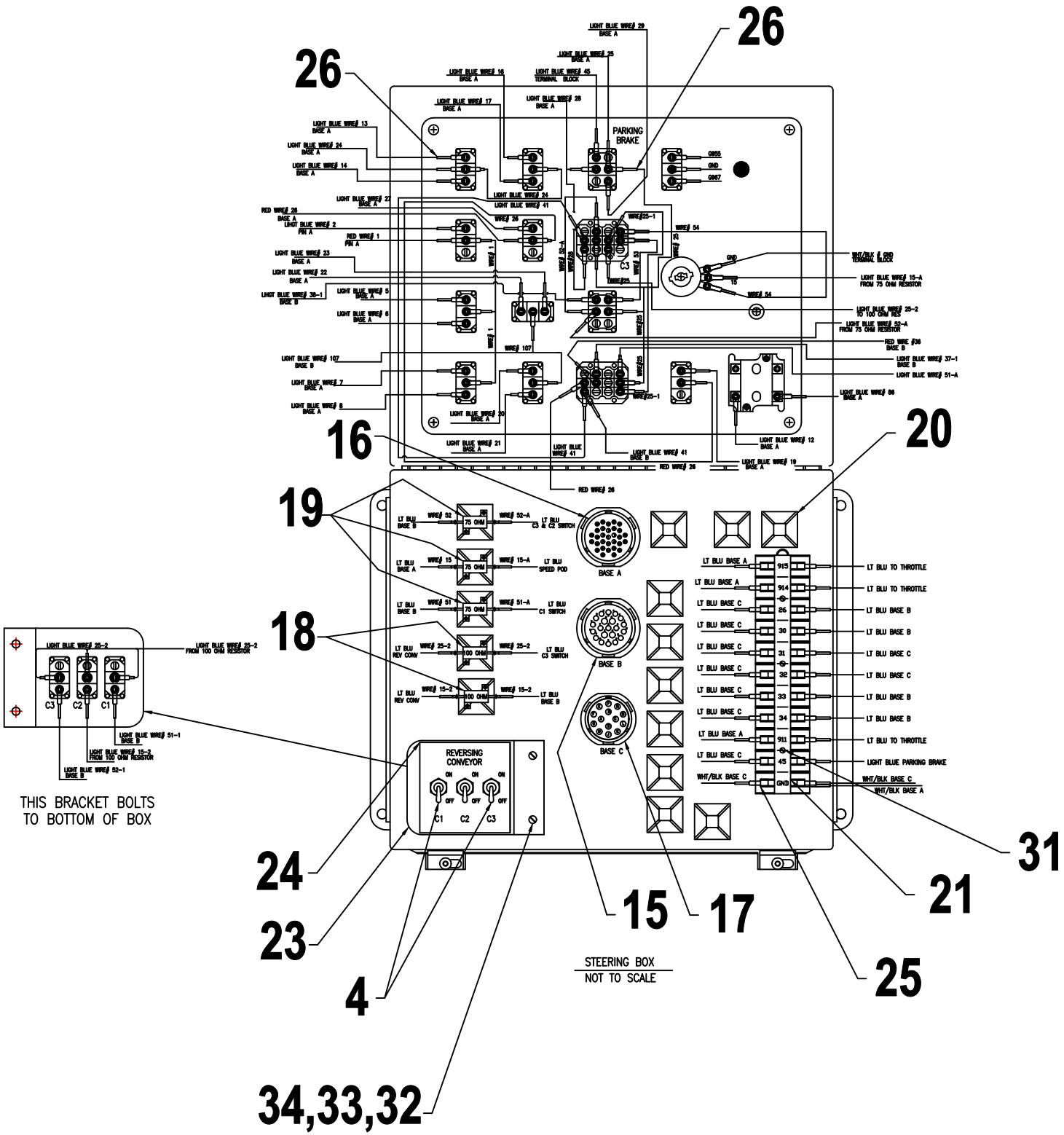
ITEM #	PART NO.	DESCRIPTION	QTY.
1	98204	ELECTRICAL CONTROL	1
2	SEE KIT	WIRE HARNESS - JOYSTICK	REF
3			
4			
5			

STEERING BOX ELECTRICAL ASSEMBLY.
(216472-01)

NEXT PAGE



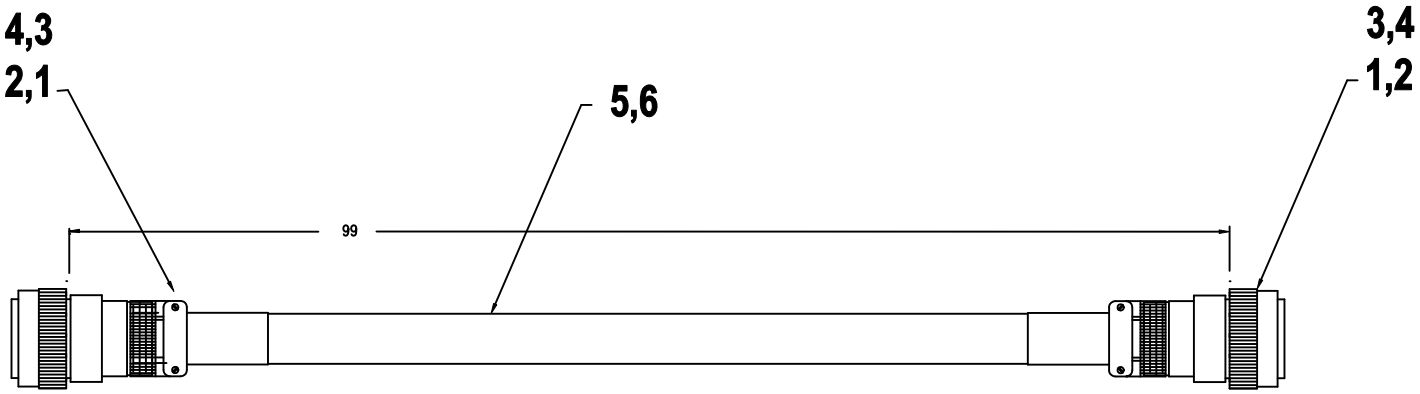
STEERING BOX ELECTRICAL ASSEMBLY.
(216472-01)



STEERING BOX ELECTRICAL ASSEMBLY
(216472-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
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)

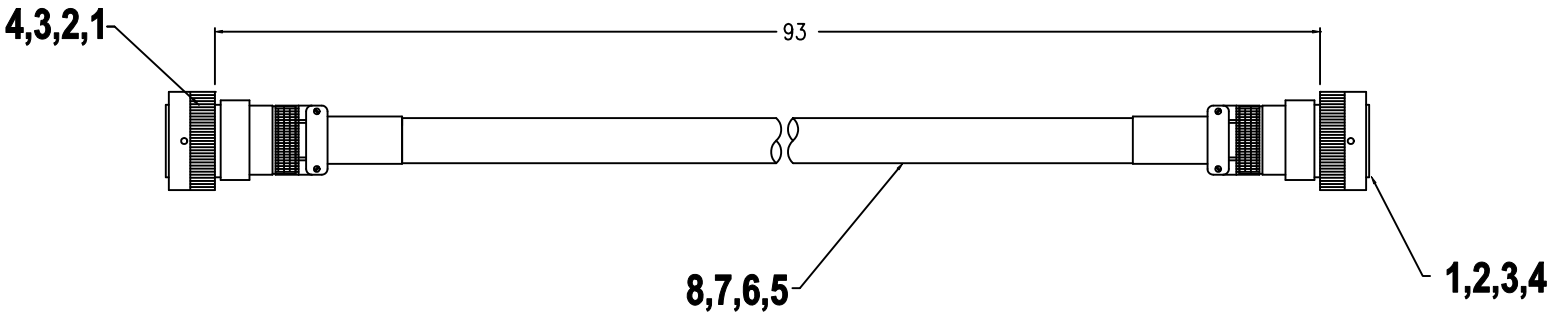


31 PIN LAY-OUT

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

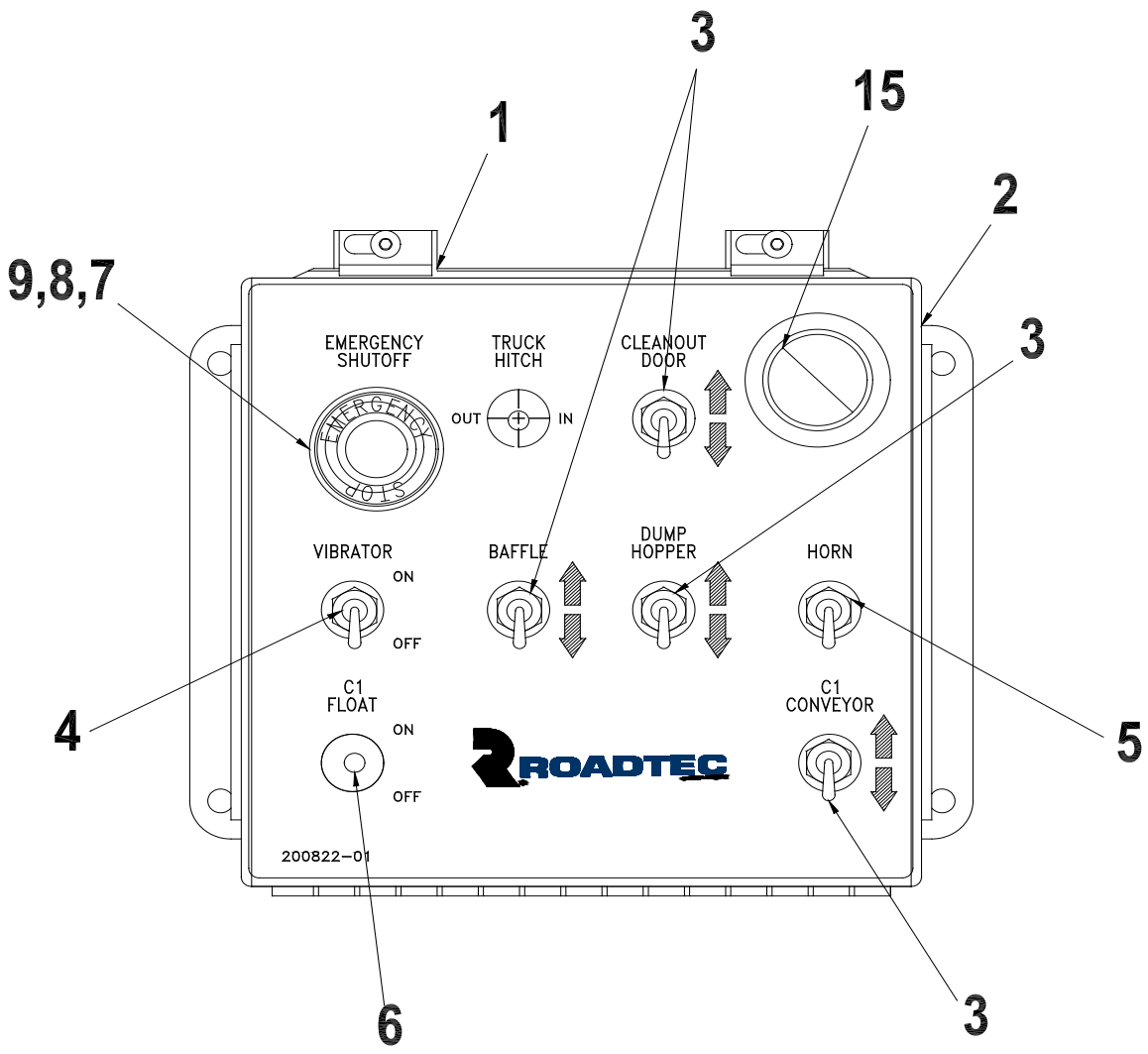
* NOTE: PINS B, D, E & G IS 12 AWG

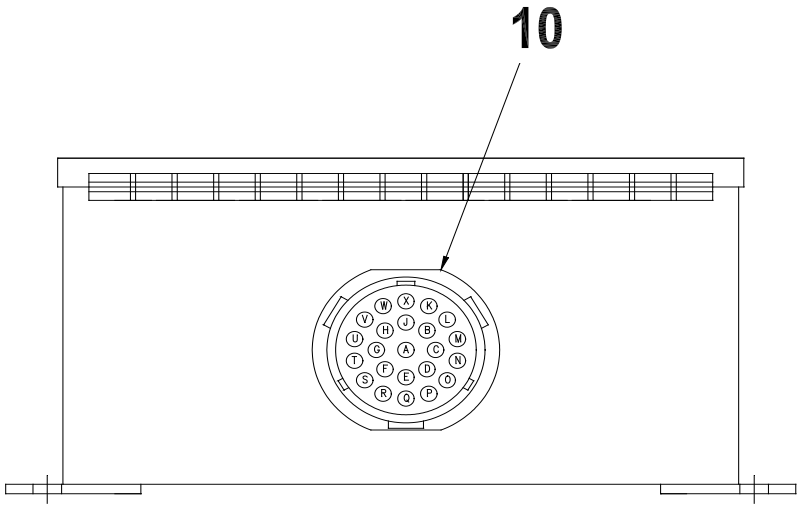
16 AWG TO BE 19 STRANDS OF 29 GAUGE FULLY ANNEALLED BARE COPPER WIRE
WIRING INSULATION TO BE CROSS LINKED POLYETHYLENE TYPE GXL
NO SUBSTITUTIONS WITHOUT ROADTEC ENGINEERING APPROVAL

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)

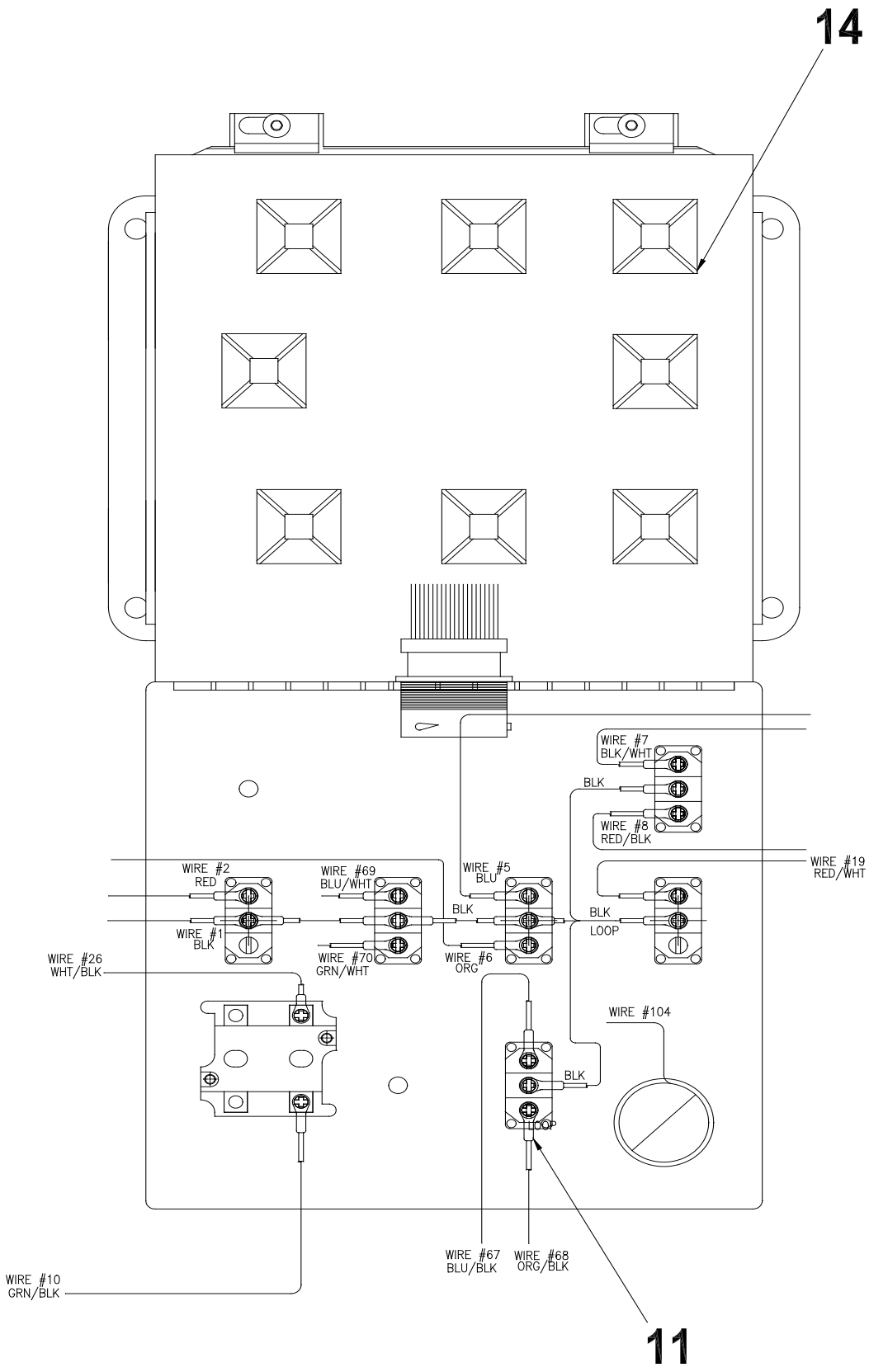
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L.H. C-1 CONTROL BOX ASSEMBLY.
(214262-01)

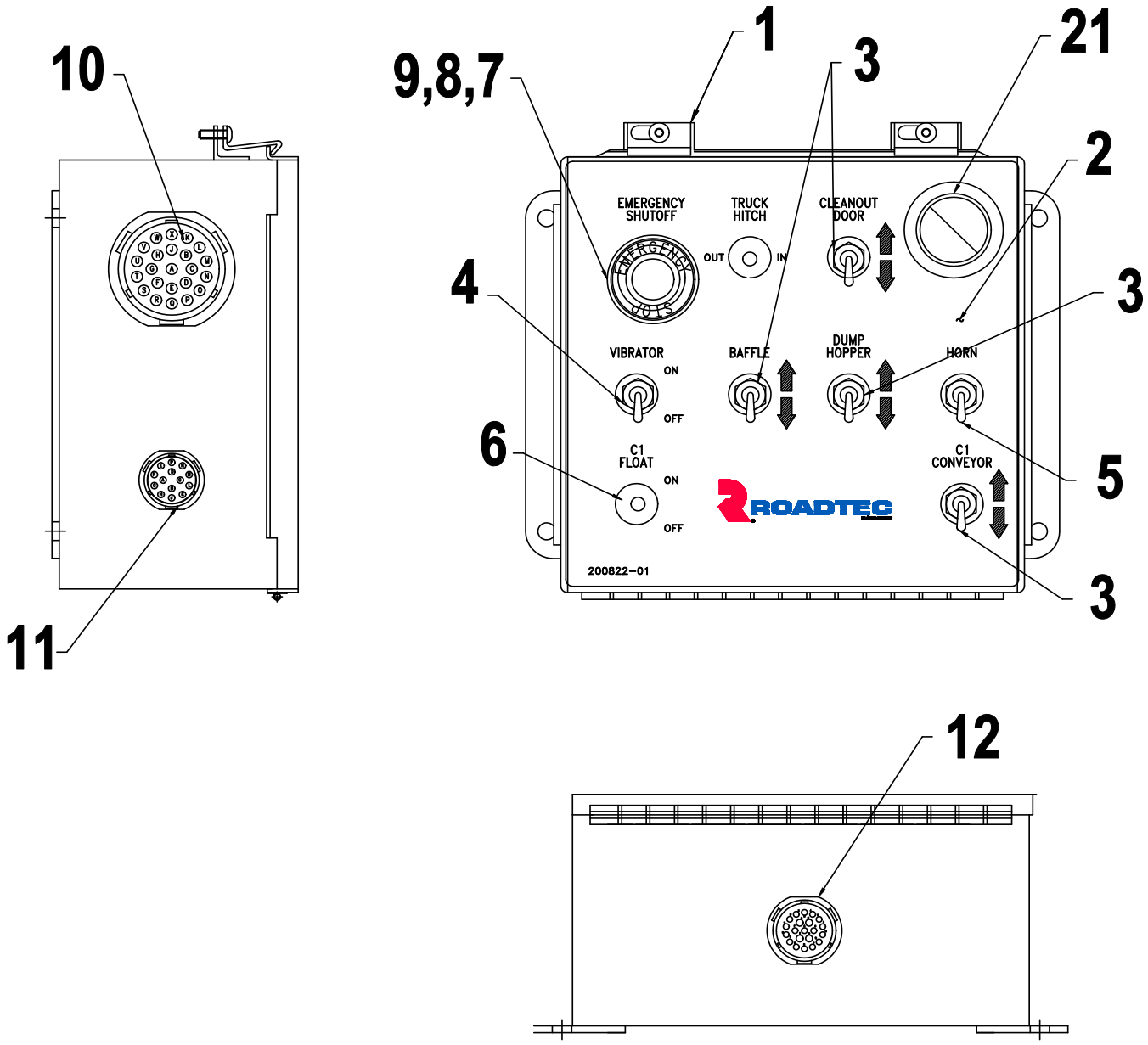


L.H. C-1 CONTROL BOX ASSEMBLY
(214262-01)

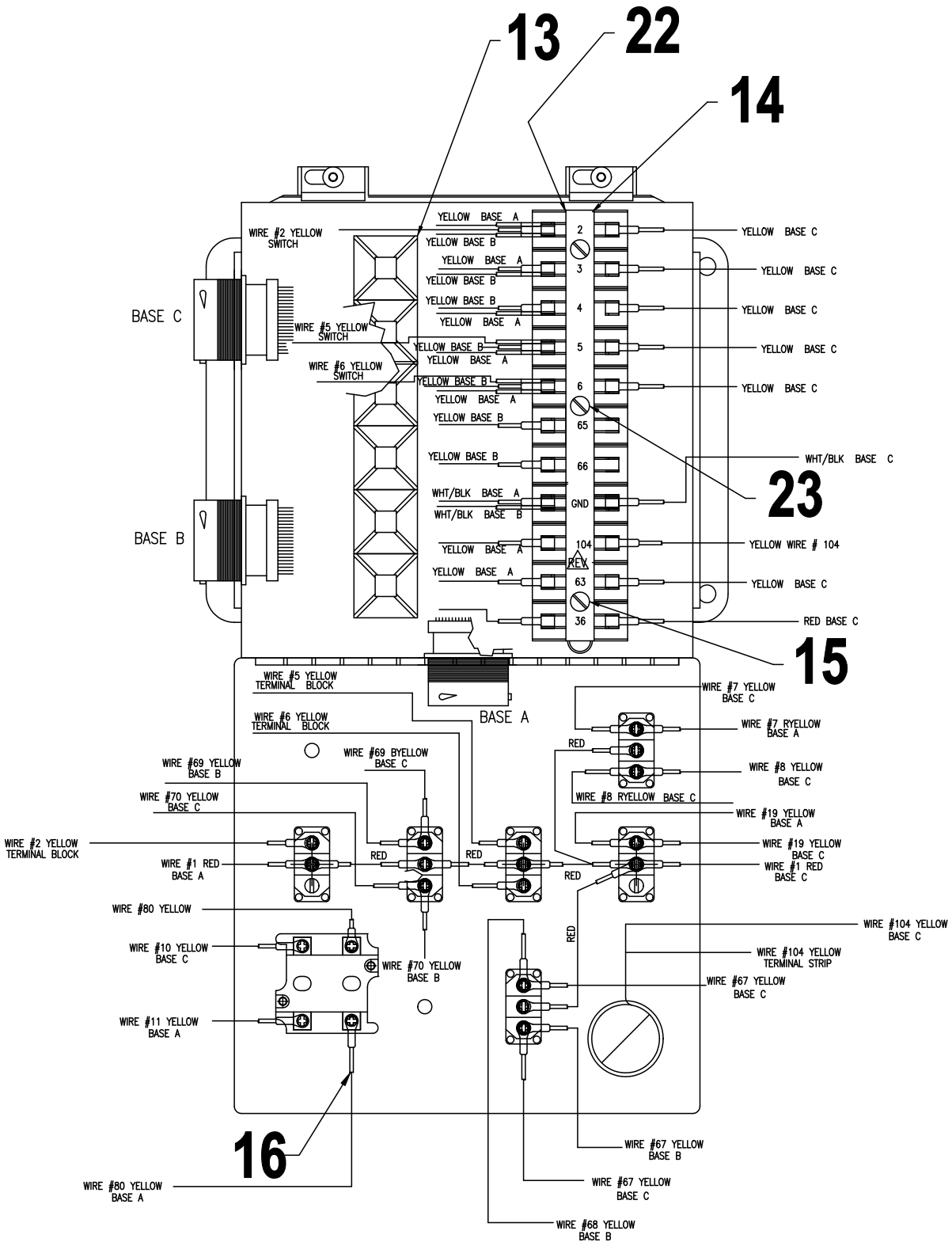
ITEM #	PART NO.	DESCRIPTION	QTY.
1	214192-01	LH C-1 CONTROL BOX	1
2	200822-01	DECAL - C-1 CONTROL BOX	1
3	139471	TOGGLE SWITCH	4
4	13E68	TOGGLE SWITCH	1
5	97542	TOGGLE SWITCH	1
6	97944-04	HOLE PLUG - 1/2"	2
7	93251-04	SWITCH - EMERGENCY STOP	1
8	93250-04	EMERGENCY STOP CONTACT BLOCK	1
9	93251-04-C3	EMERGENCY 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)

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

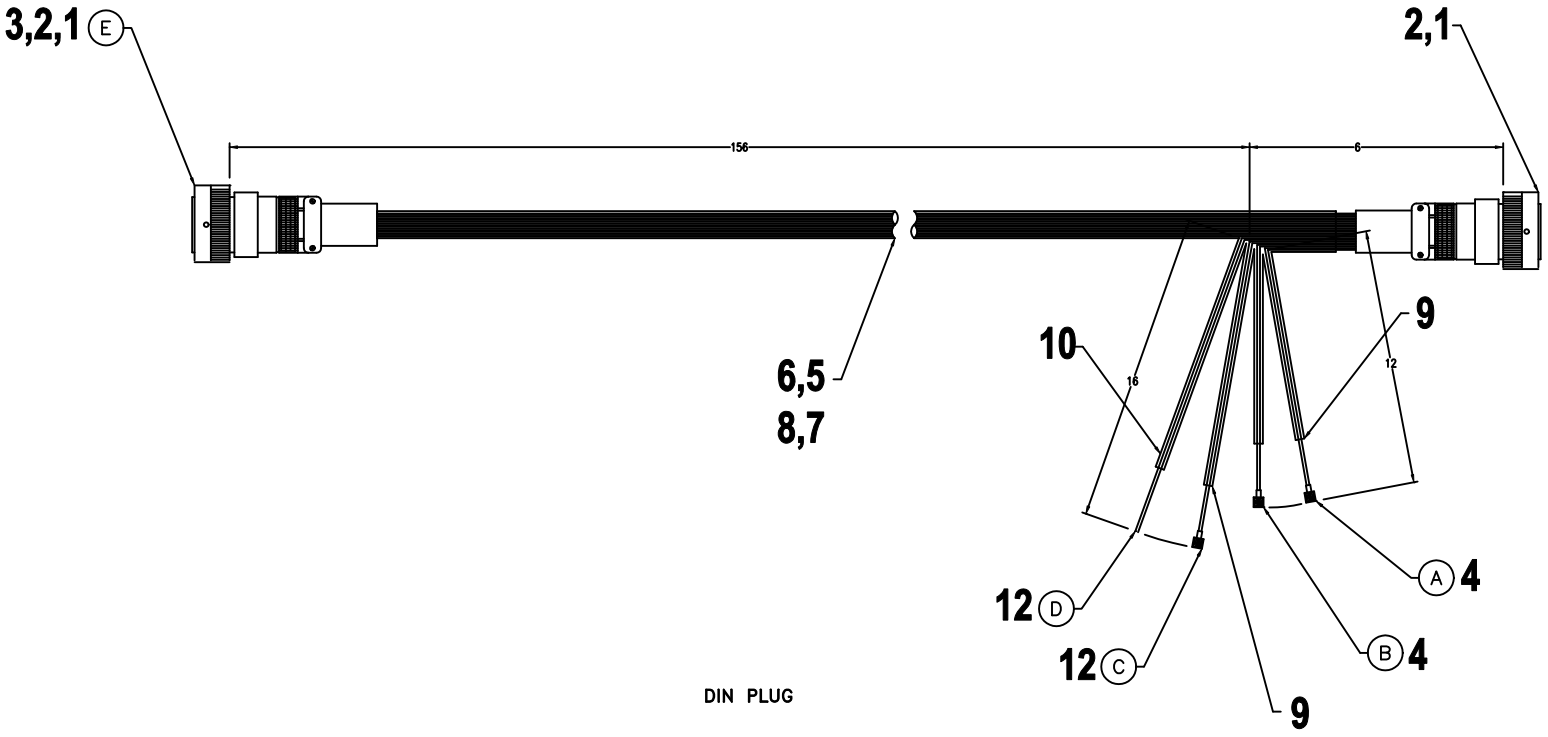


R.H. C-1 CONTROL BOX ASSEMBLY
(215520-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
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)

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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

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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		

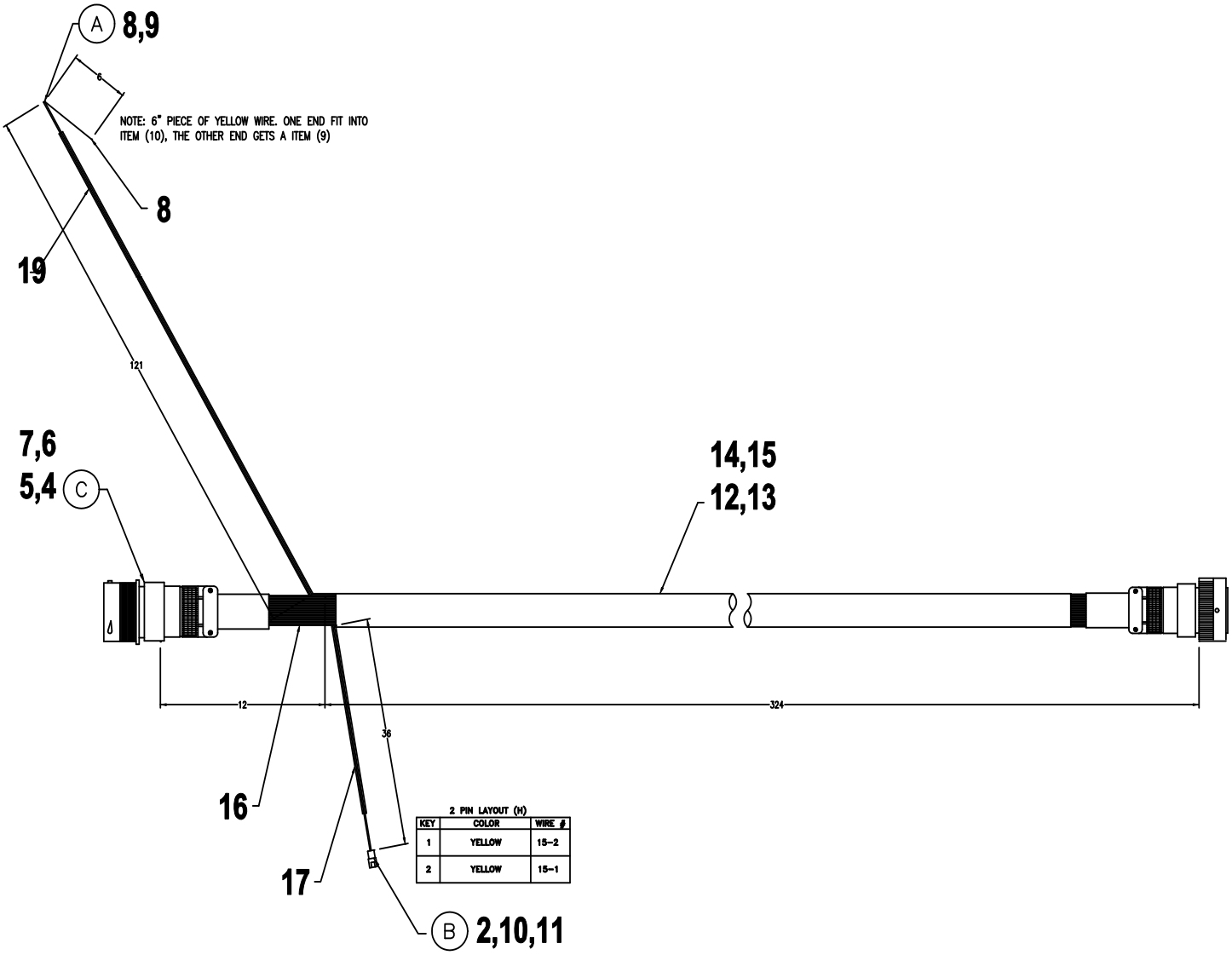
23 PIN LAY-OUT

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)

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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

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

23 PIN LAY-OUT

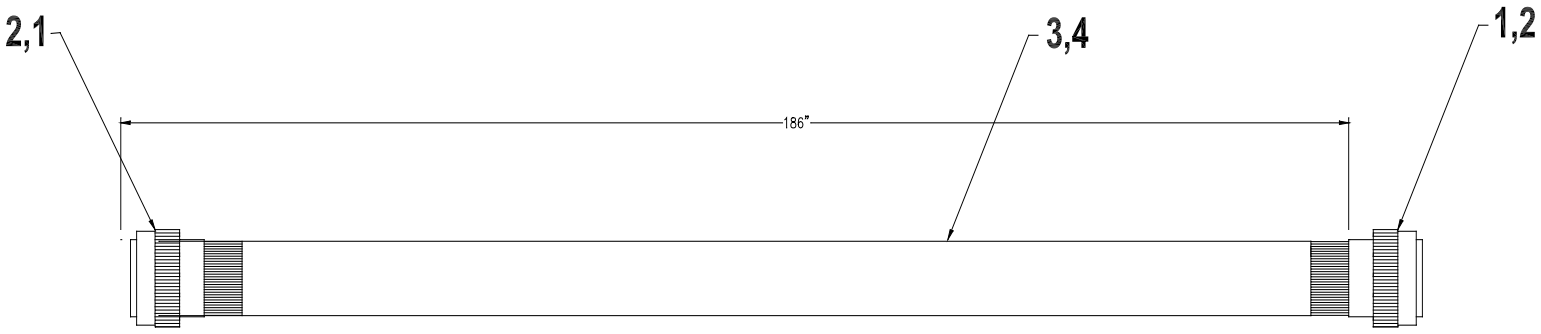
PIN	COLOR	WIRE #
A	YELLOW	3
B	YELLOW	19
C	WHITE/BLACK	GND
D	YELLOW	80
E	RED	1
F	YELLOW	5
G	YELLOW	104
H	YELLOW	4
J	YELLOW	2
K	YELLOW	11
L	YELLOW	6
M	YELLOW	63
N	YELLOW	8
O	YELLOW	7
P	RED	36
Q	YELLOW	63
R	WHITE/BLACK	GND
S	YELLOW	7
T	WHITE/BLACK	GND
U	YELLOW	8
V	WHITE/BLACK	GND
W	YELLOW	63
X	WHITE/BLACK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

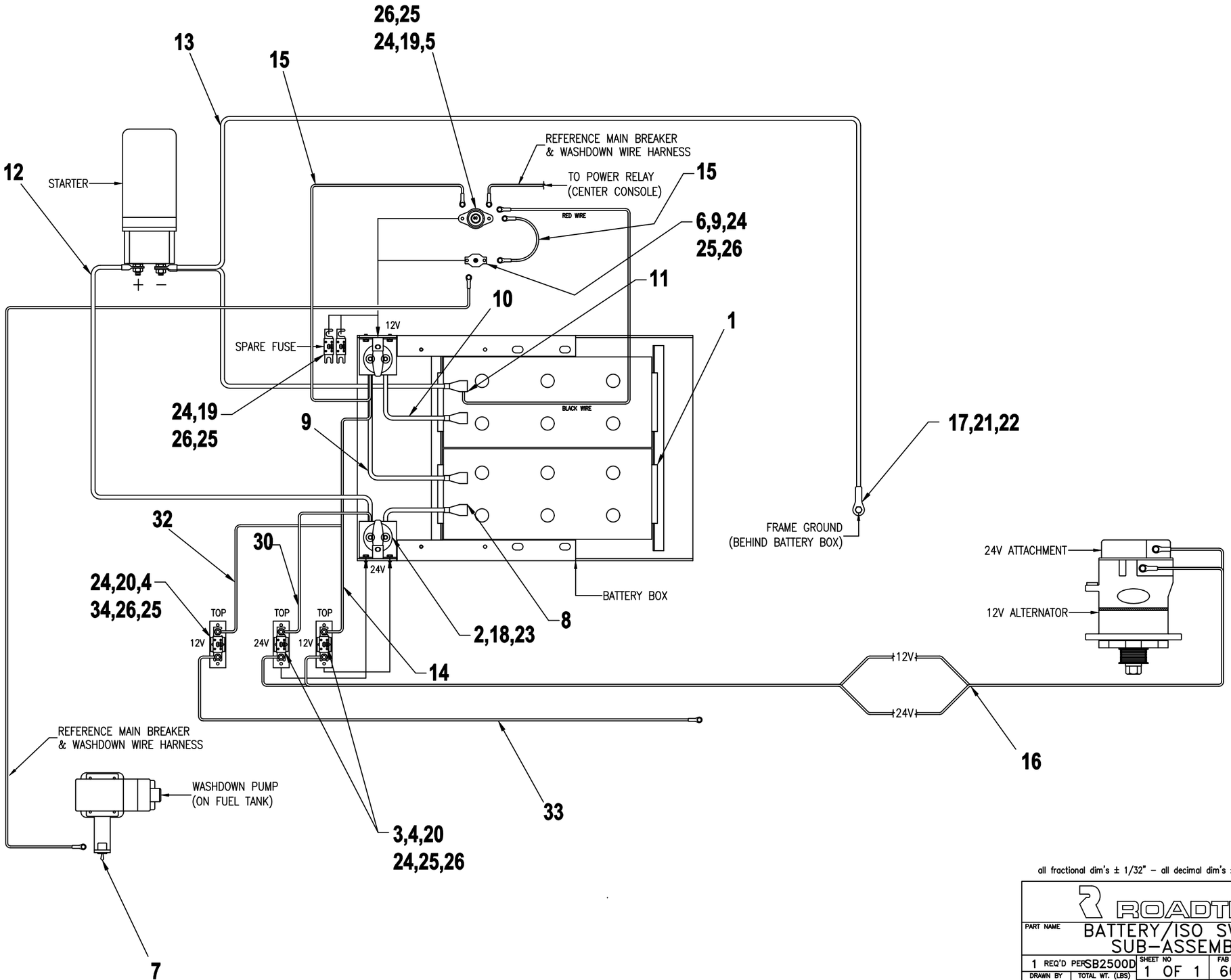
HARNESS, C-1 CONTROL BOX CROSSOVER
(214222-02)



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"



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

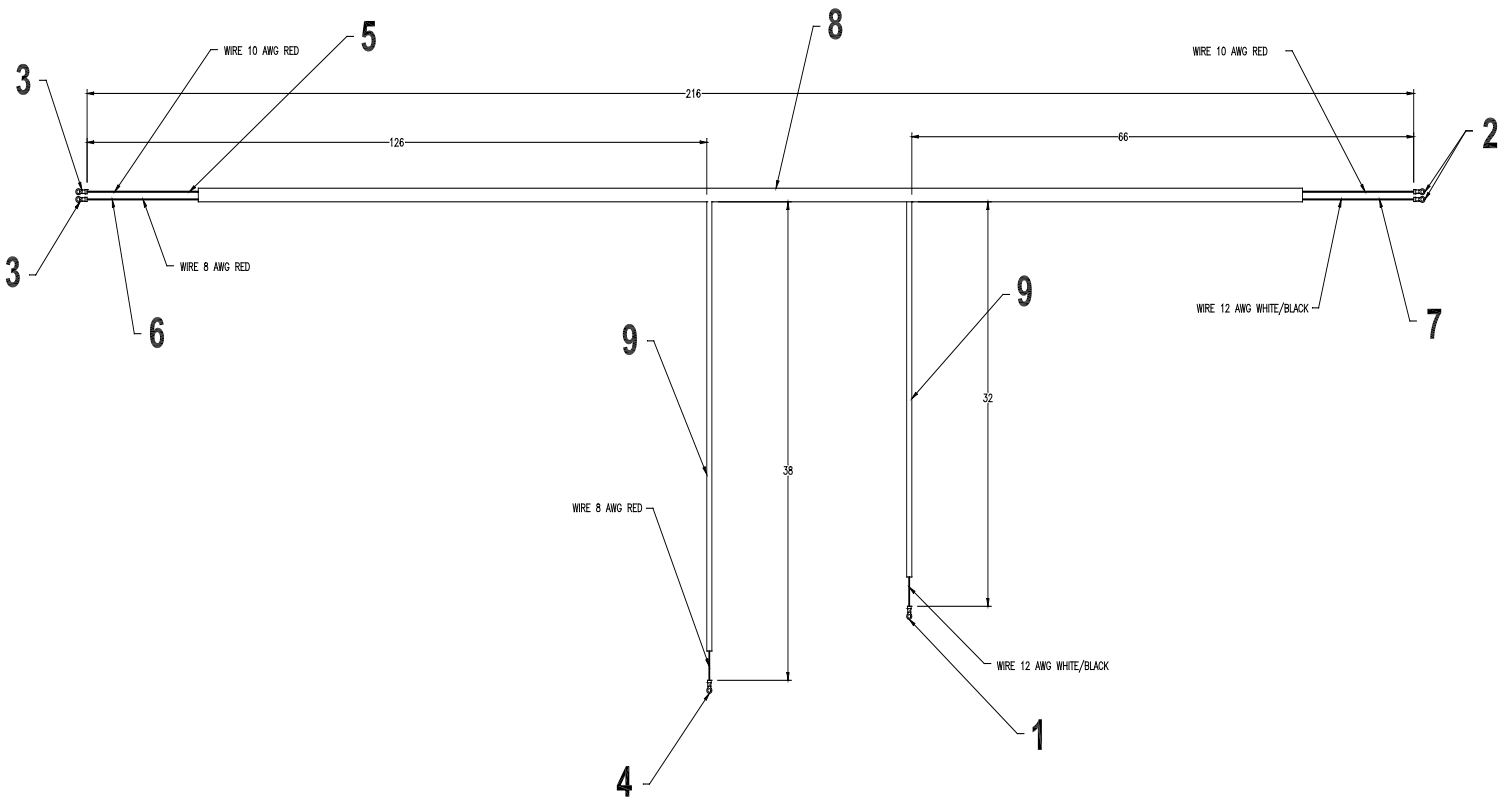
ROADTEC

PART NAME: BATTERY/ISO SWITCH SUB-ASSEMBLY				
1 REQ'D PER: SB2500D		SHEET NO: 1 OF 1	FAB CODE: 603	EFFECTIVE S/N: 1044
DRAWN BY: JW	TOTAL WT. (LBS): 224.33	DWG NO: 227507-02		REV.: A
SCALE: 1/8=1	DATE: 1-13-09			

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

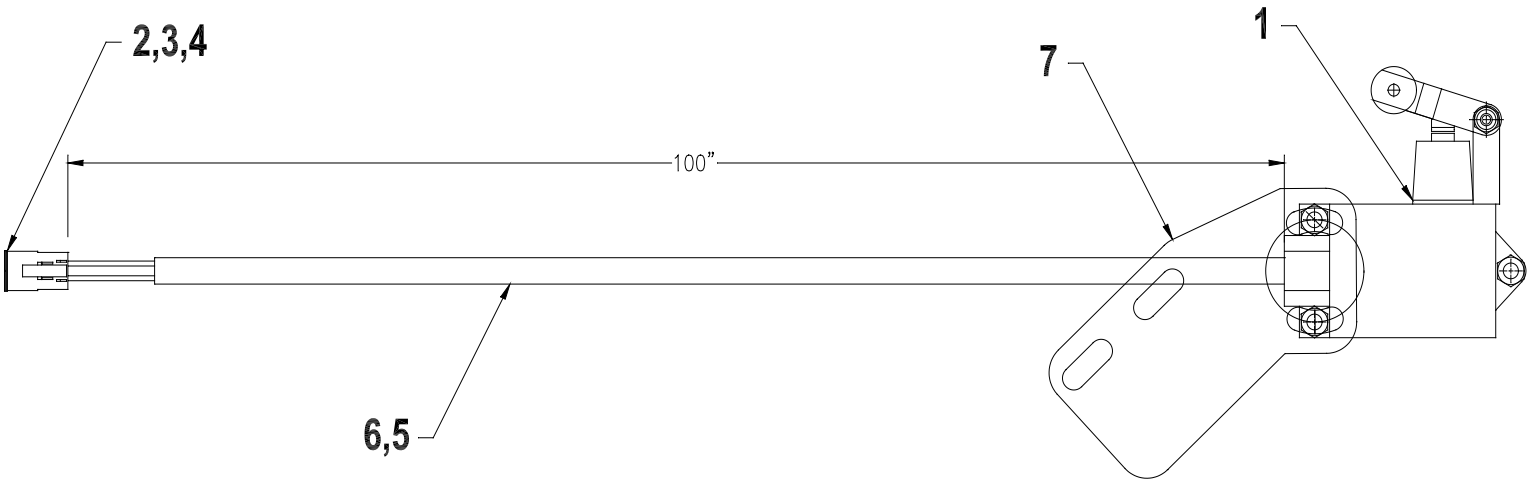
ITEM #	PART NO.	DESCRIPTION	QTY.
1	11S35	BATTERY - WET CHARGE 4D 12V	2
2	130644	SWITCH - BATTERY ISOLATION	2
3	146264-04	BASE - FUSIBLE LINK	3
4	146263-04	FUSIBLE LINK - 100 AMP	3
5	20Z54	CIRCUIT BREAKER - 60 AMP	1
6	90930-04	CIRCUIT BREAKER - 40 AMP	1
7	13E68	SWITCH - TOGGLE	2
8	203703-04	BATTERY CABLE - 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)



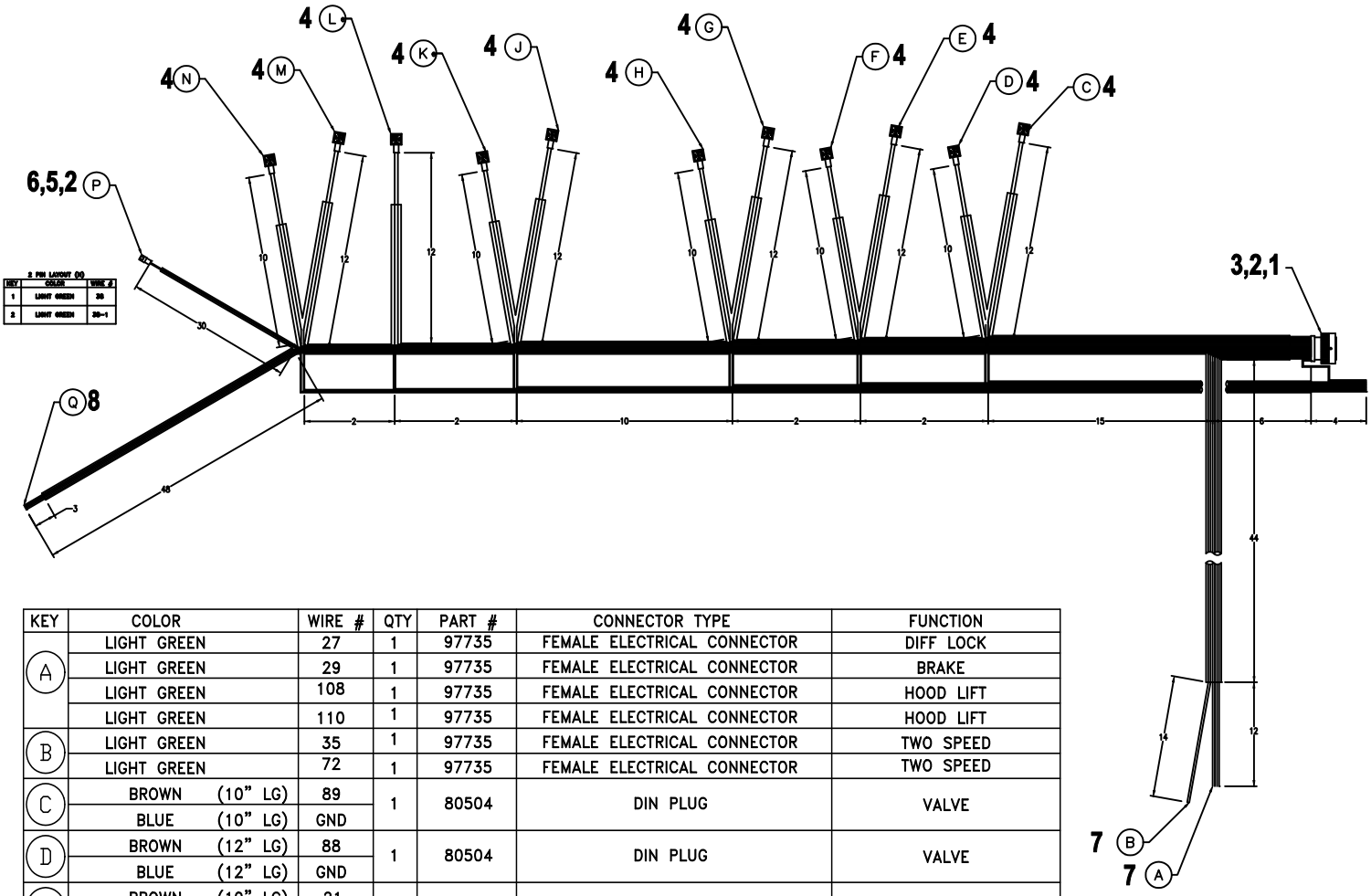
2 PIN LAYOUT (H)

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

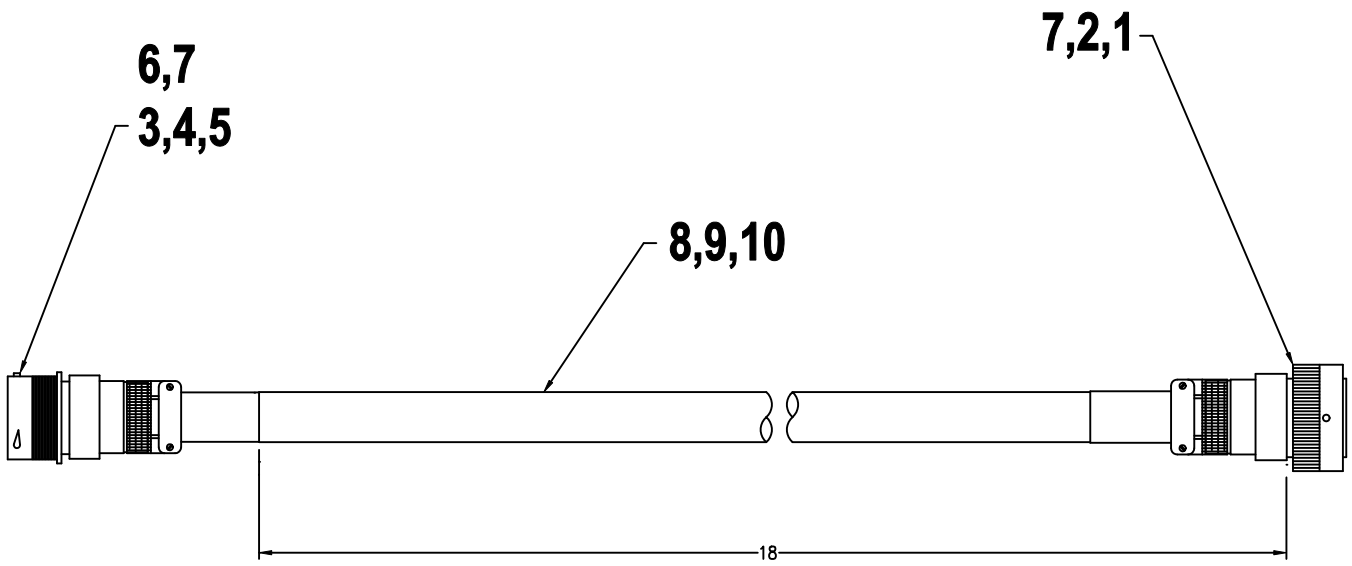
HARNESS - VALVE STACK
(215514-01)

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)

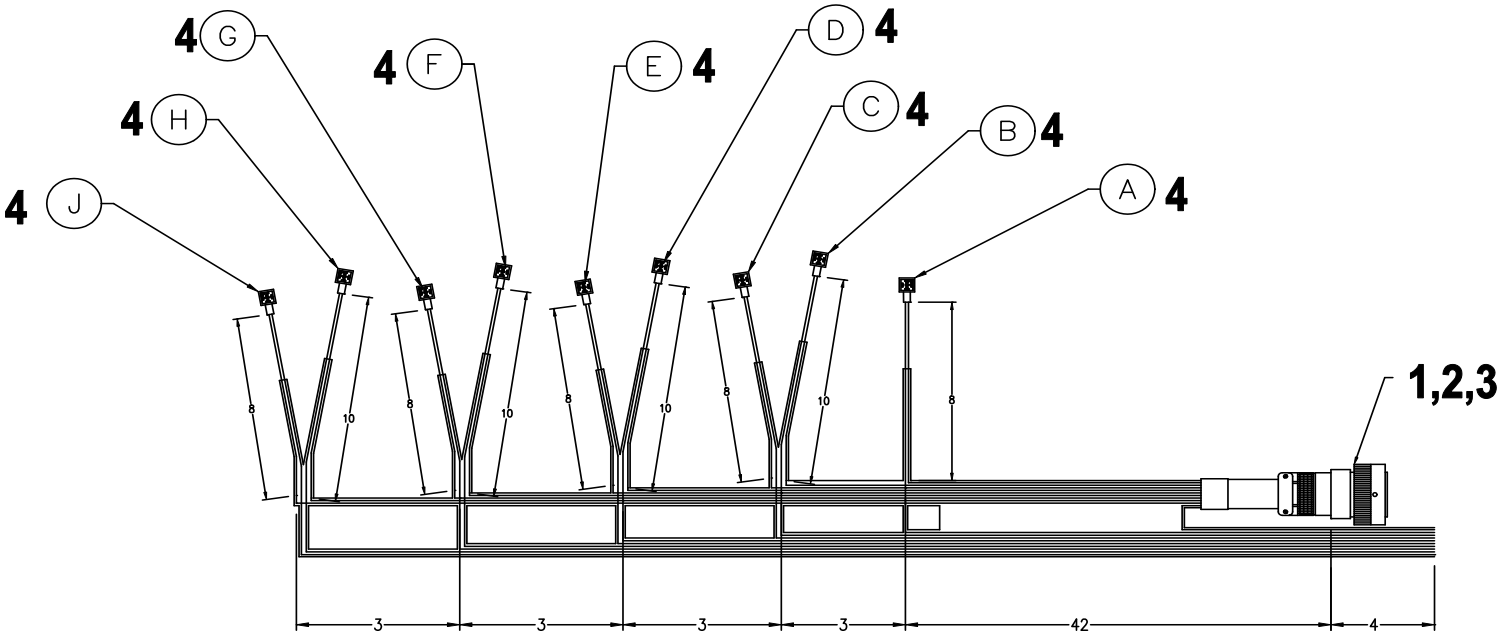


14 PIN LAY-OUT DETAIL

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

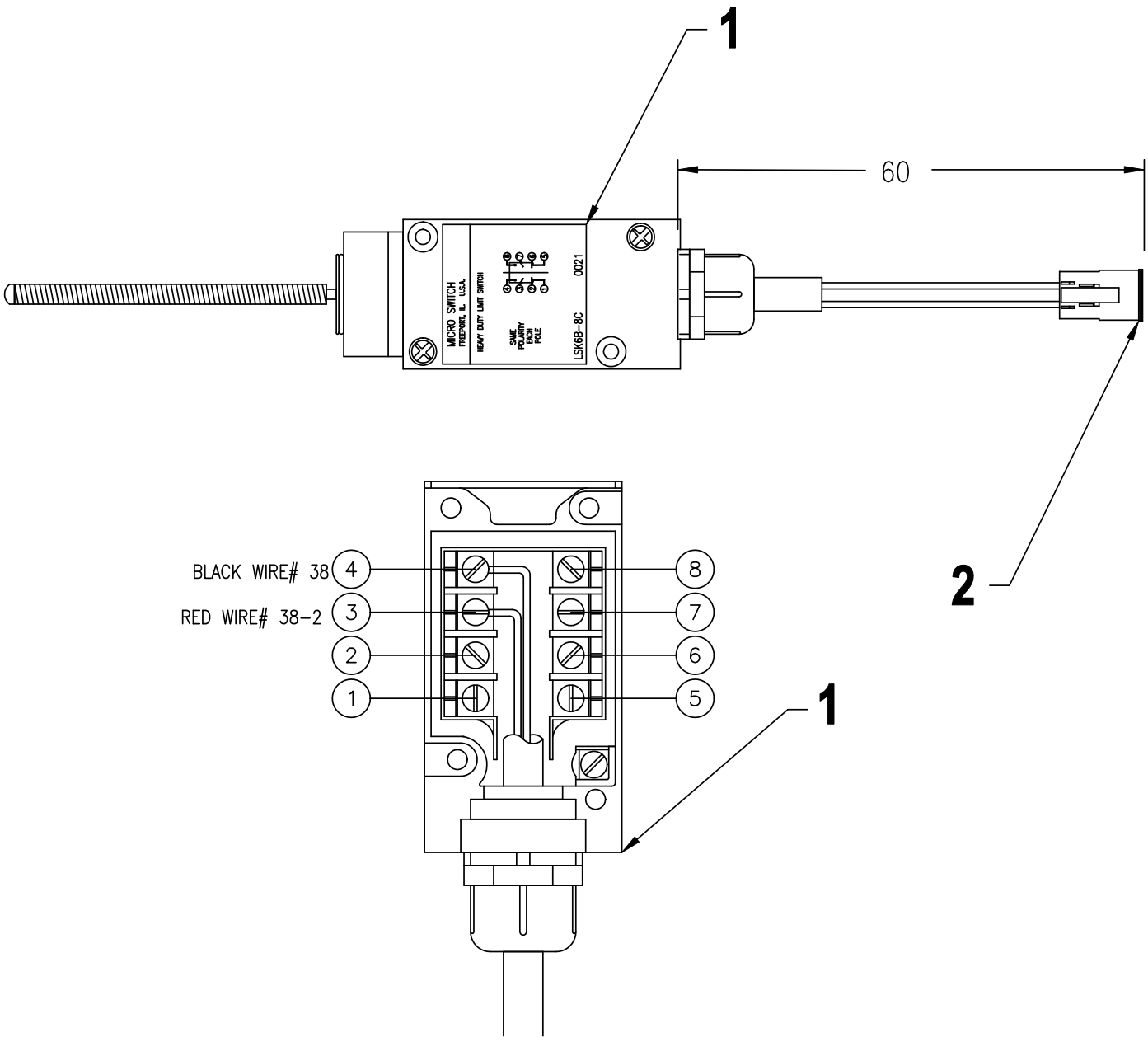
KEY	COLOR	WIRE #	QTY	PART #	CONNECTOR TYPE	FUNCTION	LENGTH
A	BROWN	2	1	80504	DIN PLUG SINGLE ENDED CORDSET	VIBRATOR	50
	BLUE	GND	1				54
B	BROWN	69	1	80504	DIN PLUG SINGLE ENDED CORDSET	BAFFLE	53
	BLUE	GND	1				57
C	BROWN	70	1	80504	DIN PLUG SINGLE ENDED CORDSET	BAFFLE	55
	BLUE	GND	1				59
D	BROWN	67	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		

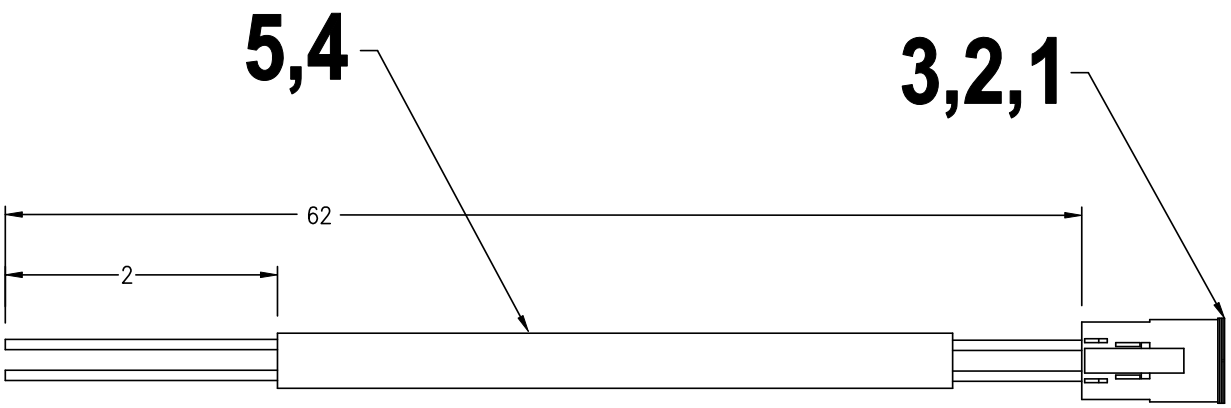
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211945-04	DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PIN	10
3	133741-04	DEUTSCH SEALING PLUG	4
4	215557-04	DIN PLUG - SINGLE END CORDSET (MENCO VAC - 200-30)	9
5		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	6"
6	98298	SPLIT LOOM - 1"	9"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



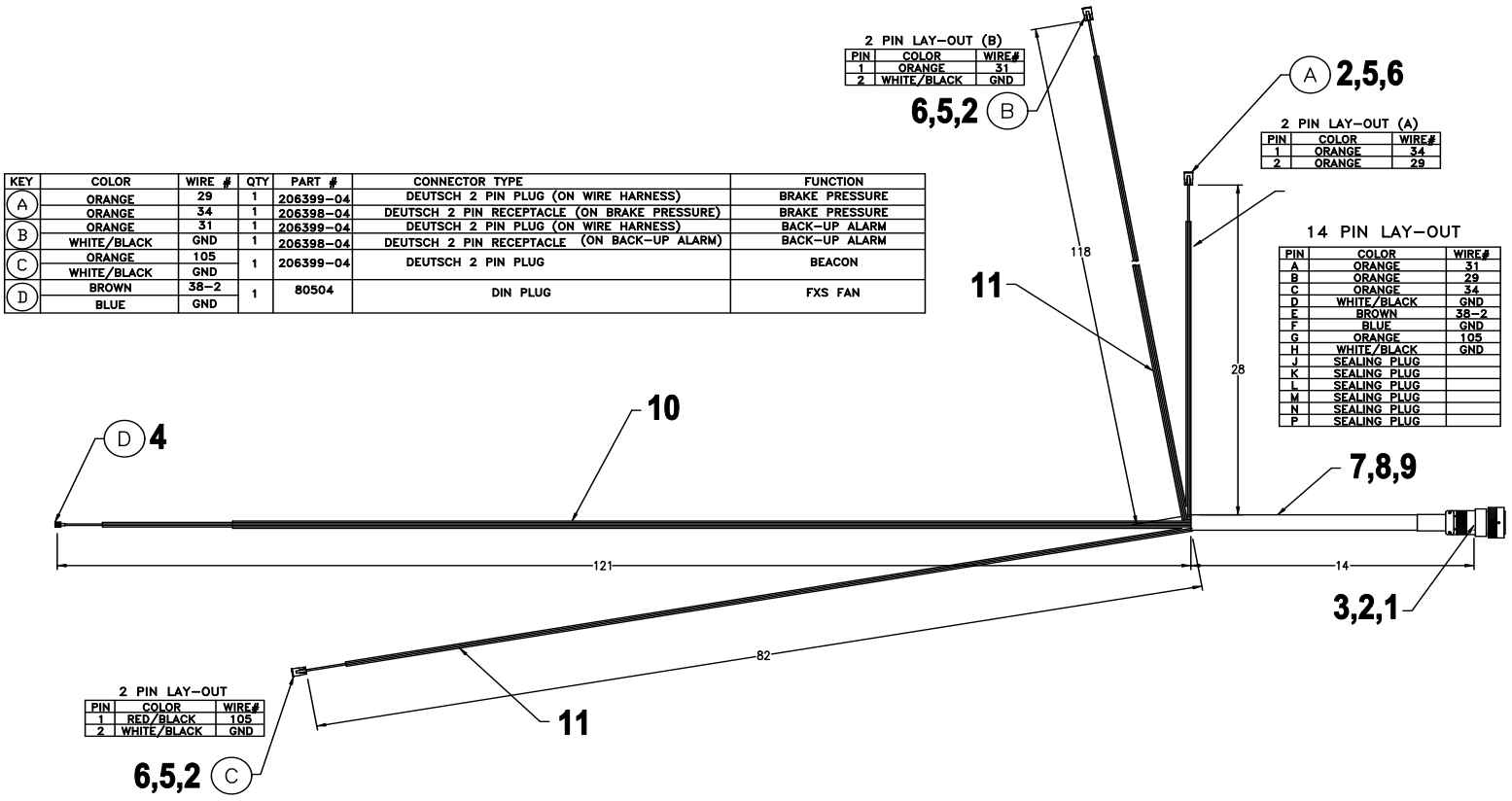
SLUG WIRE ENDS

2 PIN LAYOUT

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

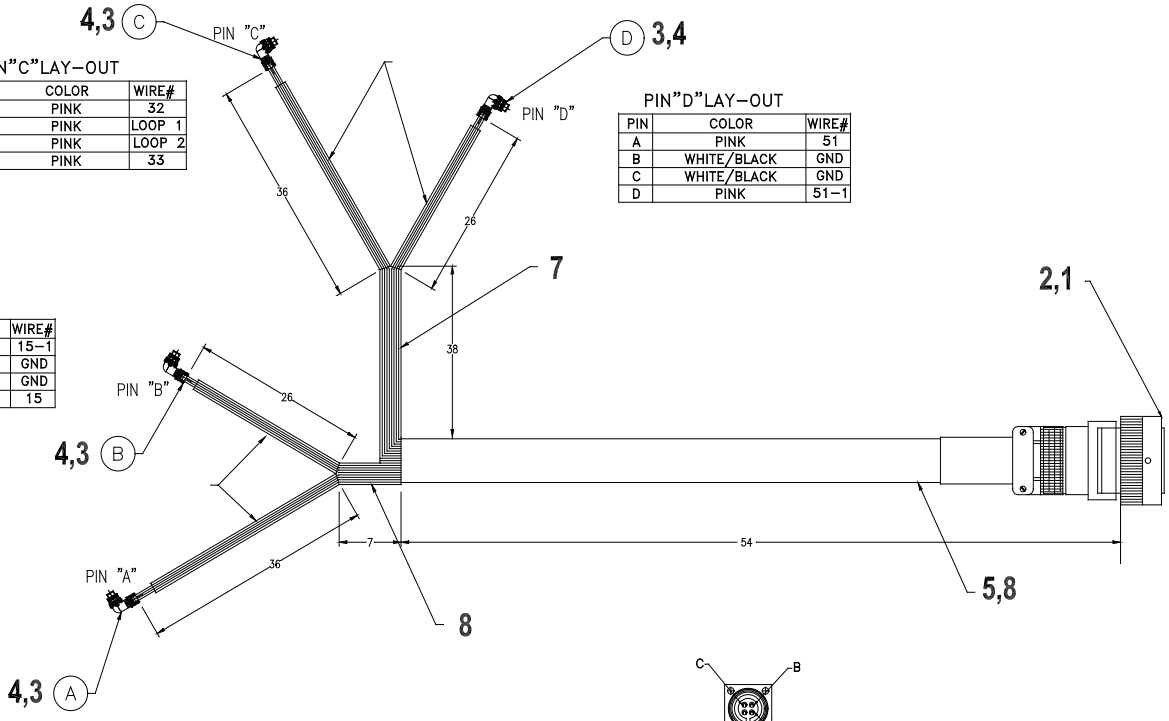
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	206399-04	DEUTSCH 2 PIN PLUG	1
2	133746-04	DEUTSCH SOCKETS 16 AWG	2
3	206402-04	DEUTSCH LOCKING WEDGE	1
4		WIRE 16 AWG LIGHT GREEN (126-16800-5000-55L)	124"
5	95021	SPLIT LOOM - 1/4"	58"

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

PIN"A"LAY–OUT

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

90° AMPHENOL
NOTCH LOCATION
TYP 4 PLCS

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

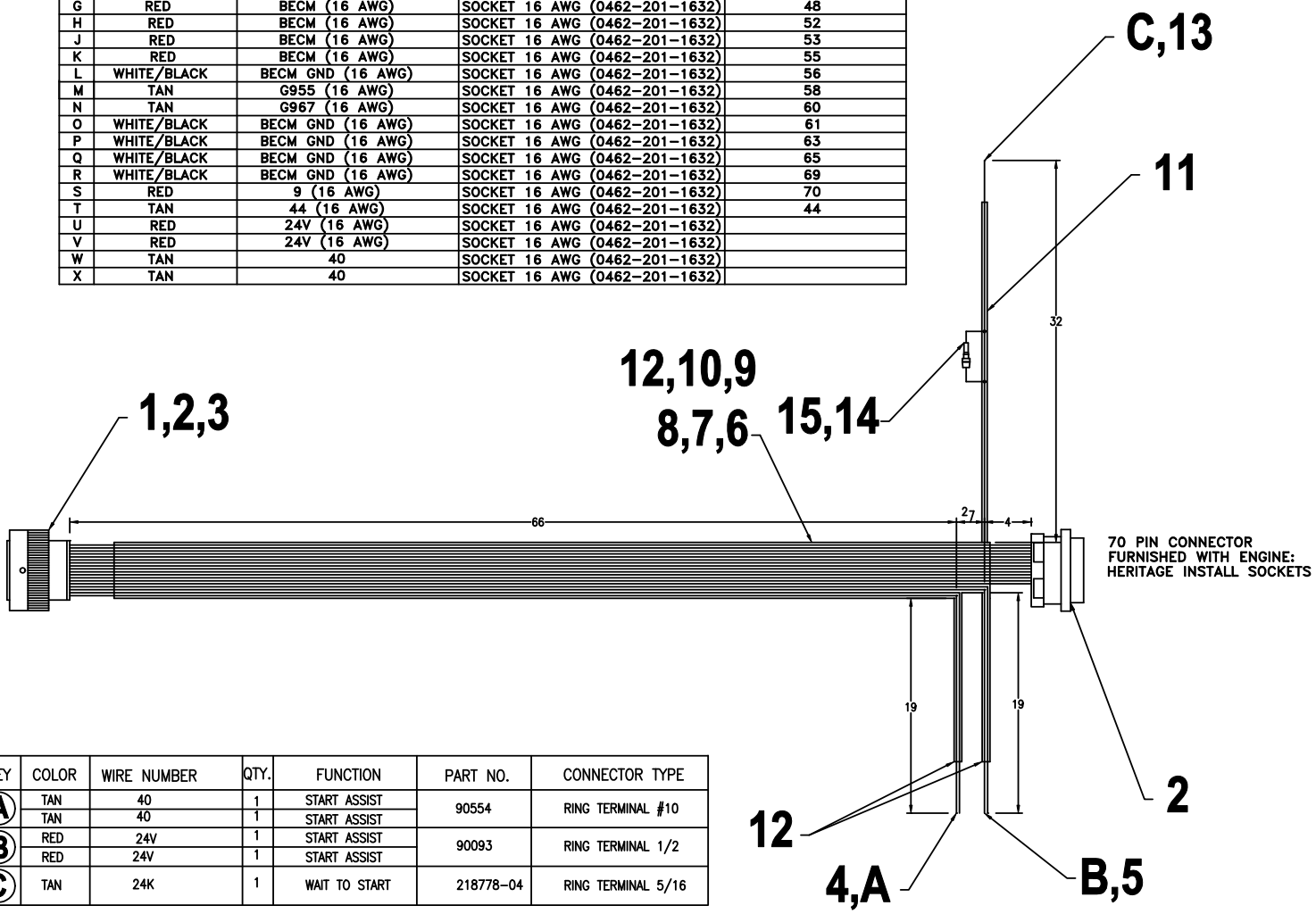
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	211945-04	DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP	1
2	137176-04	DEUTSCH 16 AWG PINS	14
3	92756-04	4 PIN 90 DEG.	4
4	86465-04	CLAMP	4
5		WIRE 16 AWG PINK (126-16800-5000-PK)	744"
6		WIRE 16 AWG WHITE/BLACK (126-16800-5000-90)	488"
7	95799	SPLIT LOOM - 3/8"	124"
8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

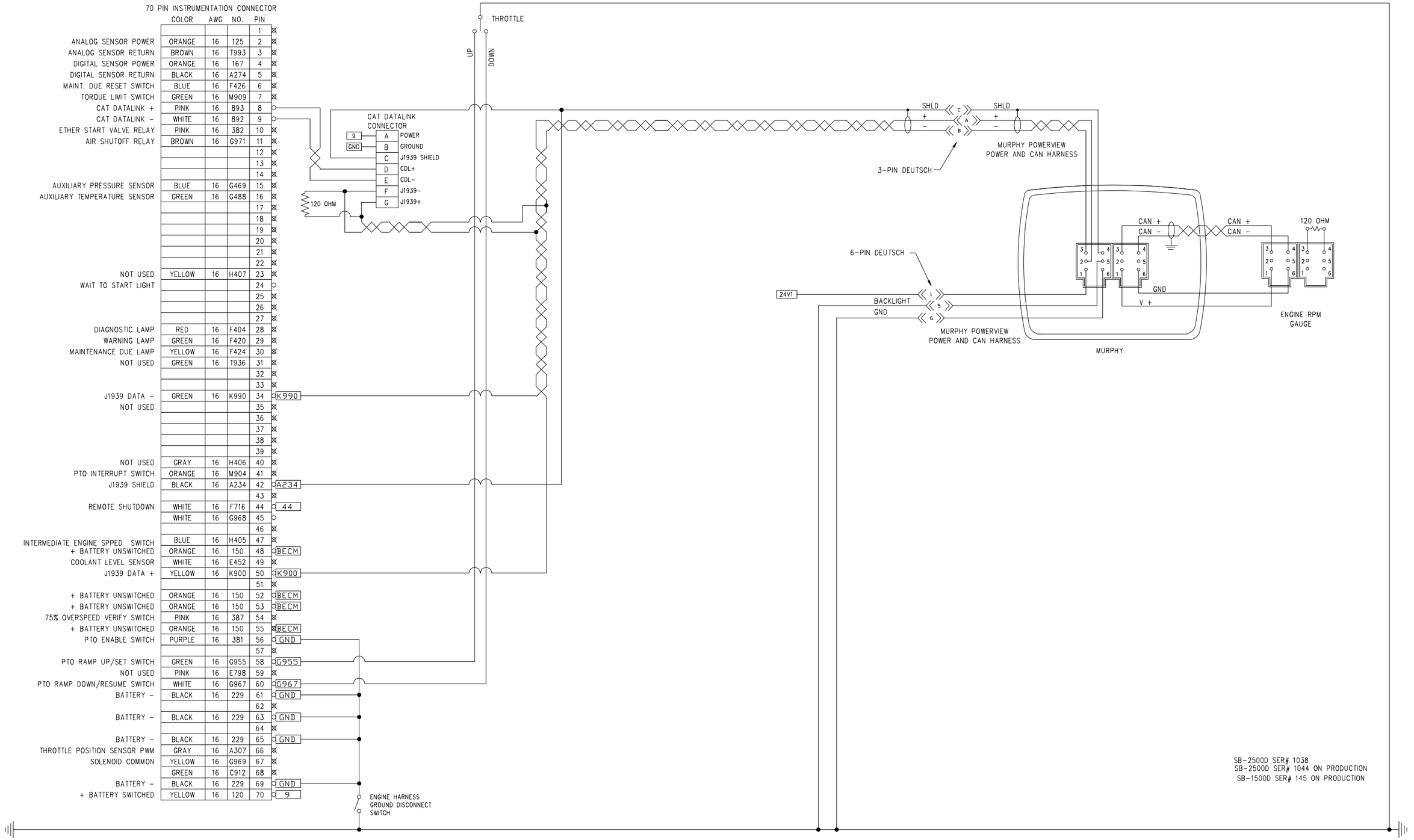
PIN	COLOR	WIRE #	PIN	COLOR	WIRE #
1		SEALING PLUG (WITH ENGINE)	36		SEALING PLUG (WITH ENGINE)
2		SEALING PLUG (WITH ENGINE)	37		SEALING PLUG (WITH ENGINE)
3		SEALING PLUG (WITH ENGINE)	38		SEALING PLUG (WITH ENGINE)
4		SEALING PLUG (WITH ENGINE)	39		SEALING PLUG (WITH ENGINE)
5		SEALING PLUG (WITH ENGINE)	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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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
NOT USED				35
				36
				37
				38
				39
NOT USED	GRAY	16	H406	40
PTO INTERRUPT SWITCH	ORANGE	16	M904	41
J1939 SHIELD	BLACK	16	A234	42
				43
REMOTE SHUTDOWN	WHITE	16	F716	44
	WHITE	16	G968	45
				46
INTERMEDIATE ENGINE SPPED SWITCH	BLUE	16	H405	47
+ BATTERY UNSWITCHED	ORANGE	16	150	48
COOLANT LEVEL SENSOR	WHITE	16	E452	49
J1939 DATA +	YELLOW	16	K900	50
				51
+ BATTERY UNSWITCHED	ORANGE	16	150	52
+ BATTERY UNSWITCHED	ORANGE	16	150	53
75% OVERSPEED VERIFY SWITCH	PINK	16	387	54
+ BATTERY UNSWITCHED	ORANGE	16	150	55
PTO ENABLE SWITCH	PURPLE	16	381	56
				57
PTO RAMP UP/SET SWITCH	GREEN	16	G955	58
NOT USED	PINK	16	E798	59
PTO RAMP DOWN/RESUME SWITCH	WHITE	16	G967	60
BATTERY –	BLACK	16	229	61
				62
BATTERY –	BLACK	16	229	63
				64
BATTERY –	BLACK	16	229	65
THROTTLE POSITION SENSOR PWM	GRAY	16	A307	66
SOLENOID COMMON	YELLOW	16	G969	67
	GREEN	16	C912	68
BATTERY –	BLACK	16	229	69
+ BATTERY SWITCHED	YELLOW	16	120	70



SB–2500D SER# 1038
SB–2500D SER# 1044 ON PRODUCTION
SB–1500D SER# 145 ON PRODUCTION

THIS DWG REPLACES 226711–01

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

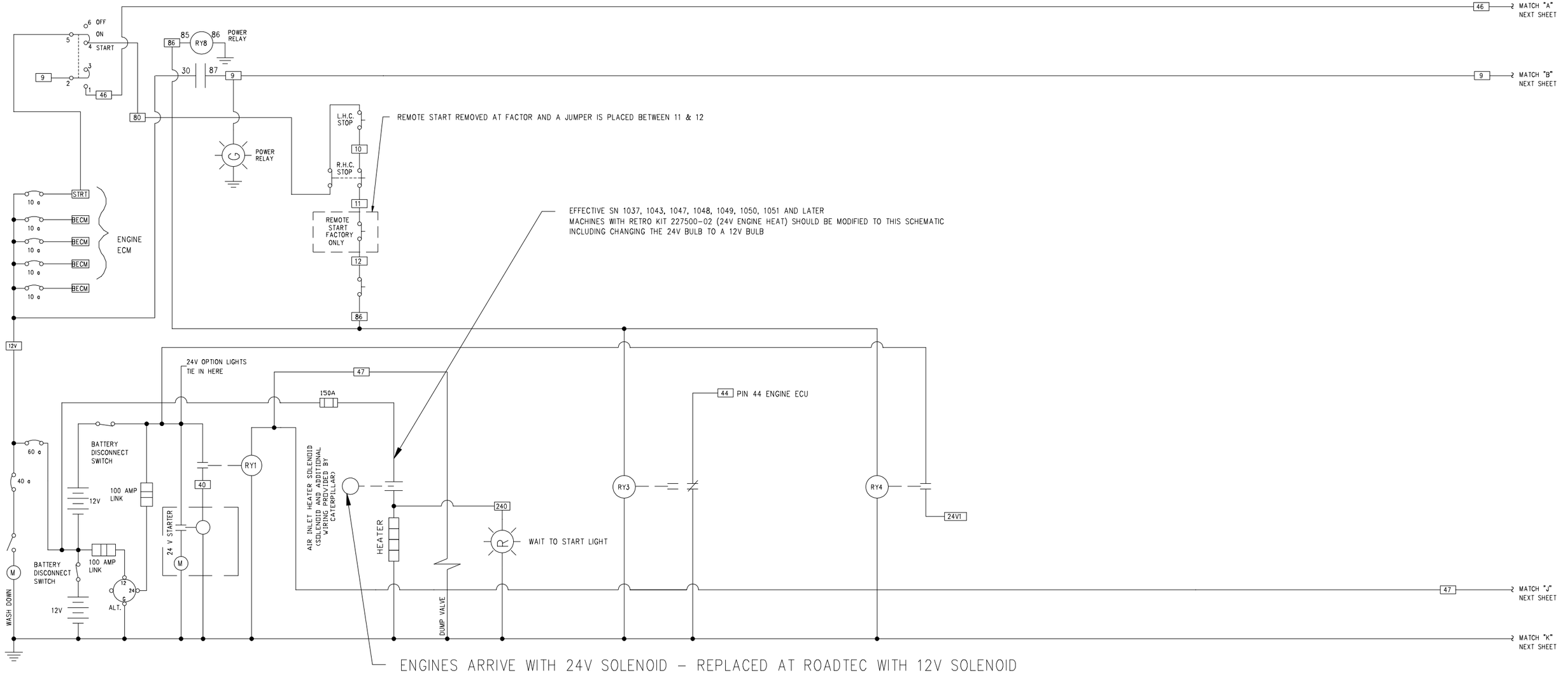
REV.	SN#	DATE	ISSUES	BY
A	1091	12–15–09	REMOVED CONTACTS OF RELAY 10 FROM BRAKE CIRCUIT	KDM
B	N/A	3–23–2010	ADDED 1500D TO SCHEMATIC; SN 146 EC 1691	KDM
C	N/A	2–22–11	CORRECTED WIRING OF NEUTRAL INTERLOCK VALVE	KDM

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB–2500D/1500D – CAT ENG

1 REQ'D PER: SB1500D SB2500D | SHEET NO: 1 OF 5 | FAB CODE: 603 | EFFECTIVE S/N: SEE ABOVE

DRAWN BY: KDM | TOTAL WT. (LBS): | SCALE: 1=1 | DATE: 9–21–09 | DWG NO: 230667–01 | REV.: C



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
RY4 – +24V MURPHY GAUGE
RY7 – HORN
RY8 – MAIN POWER
RY9 – LATCHING (SPEED SHIFT)
RY10 – NEUTRAL BRAKE

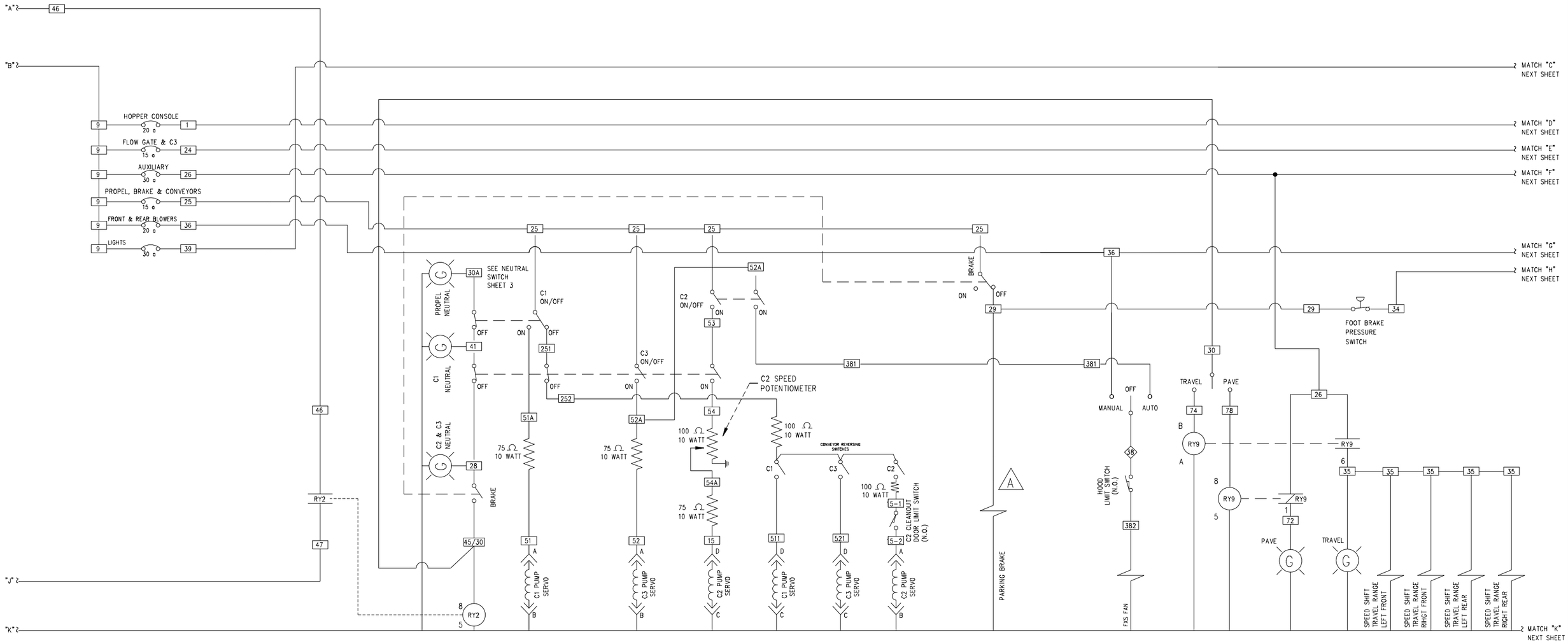
all fractional dim's 1/32" – all decimal dim's .005 unless noted

REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	
B			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D/1500D – CAT ENG

1 REQ'D PER	SB1500D SB2500D	SHEET NO	FAB CODE	EFFECTIVE S/N
DRAWN BY	TOTAL WT. (LBS)	2 OF 5	603	SEE SHEET 1
KDM		DWG NO		REV.
SCALE 1=1	DATE 9-21-09	230667-01		C



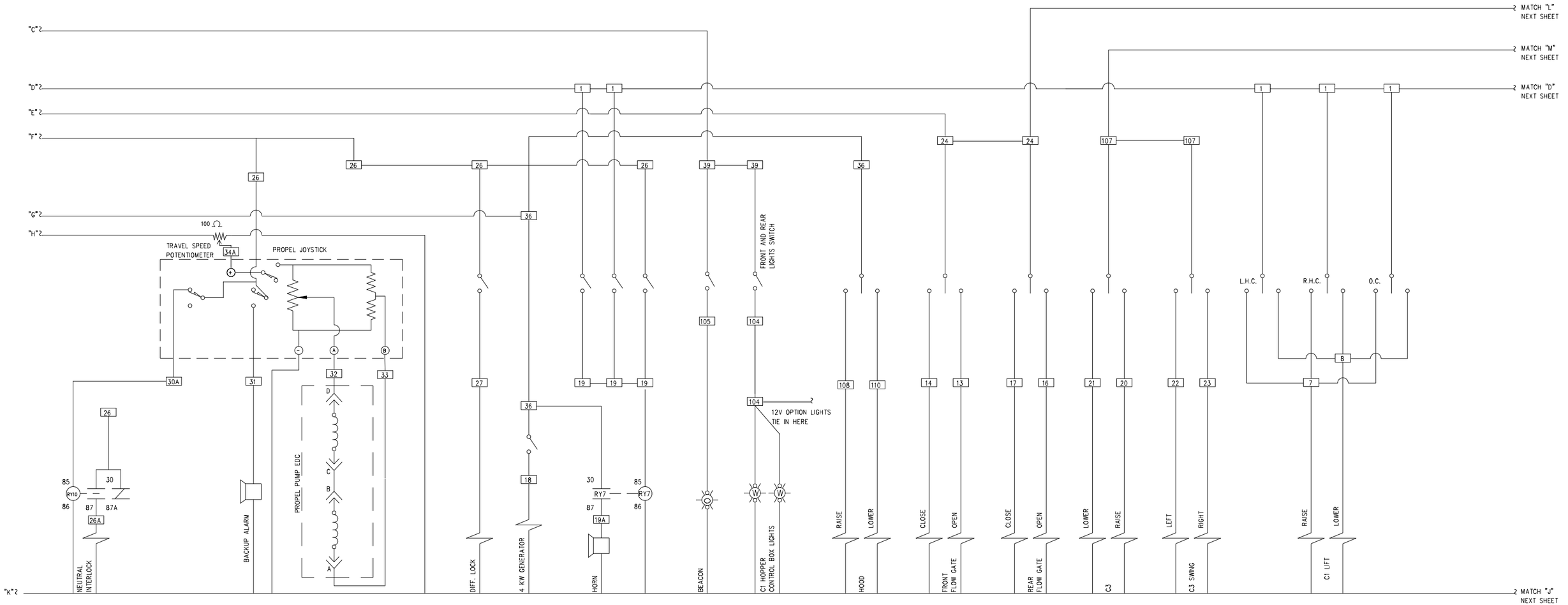
all fractional dim's 1/32" - all decimal dim's .005 unless noted

REV.	SN#	DATE	ISSUES	BY
A			SEE SHEET 1	
B			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D/1500D - CAT ENG

1 REQ'D PER: SB1500D SB2500D	SHEET NO: 3 OF 5	FAB CODE: 603	EFFECTIVE S/N: SEE SHEET 1
DRAWN BY: KDM	TOTAL WT. (LBS):	DWG NO: 230667-01	REV: C
SCALE: 1=1	DATE: 9-21-09		

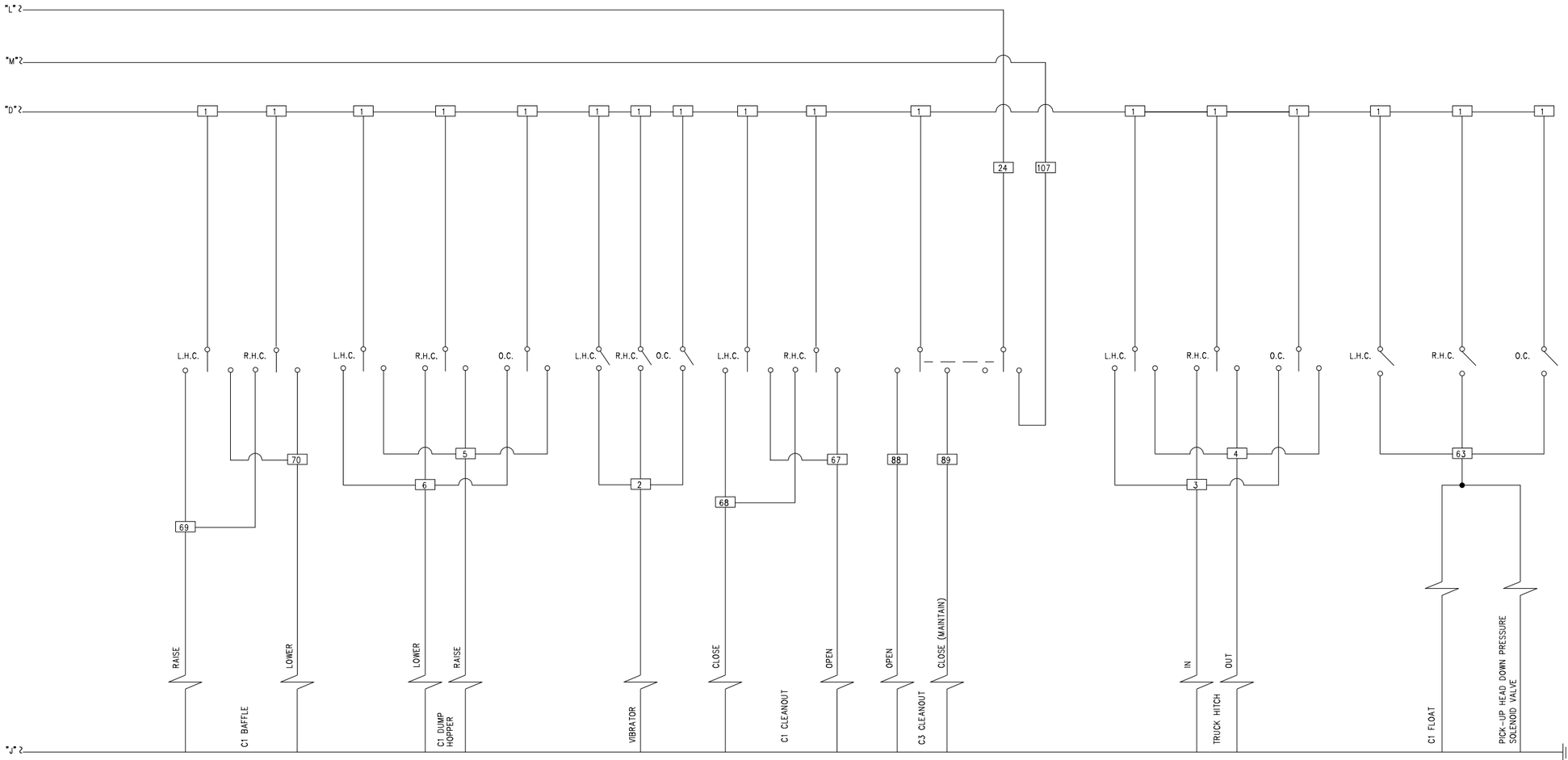


all fractional dim's 1/32" - all decimal dim's .005 unless noted

REV.	SN#	DATE	ISSUES	BY
B			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D/1500D - CAT ENG			
1 REQ'D PER: SB1500D SB2500D	SHEET NO: 4 OF 5	FAB CODE: 603	EFFECTIVE S/N: SEE SHEET 1
DRAWN BY: KDM	TOTAL WT. (LBS):		
SCALE: 1=1	DATE: 9-21-09	DWG NO: 230667-01	REV: C



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

REV.	SN#	DATE	ISSUES	BY
B			SEE SHEET 1	

ROADTEC

PART NAME: ELECTRICAL SCHEMATIC SB-2500D/1500D - CAT ENG

1 REQ'D PER	SHEET NO	FAB CODE	EFFECTIVE S/N
SB1500D SB2500D	5 OF 5	603	SEE SHEET 1

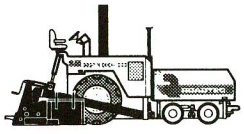
DRAWN BY	TOTAL WT. (LBS)	DWG NO	REV.
KDM		230667-01	C

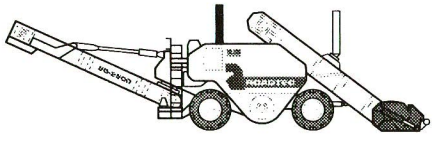
SCALE	DATE
1=1	9-21-09

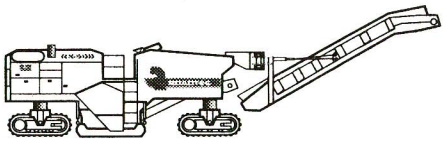
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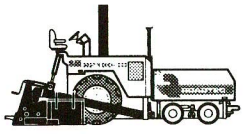
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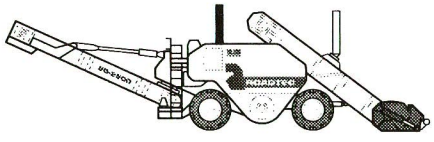
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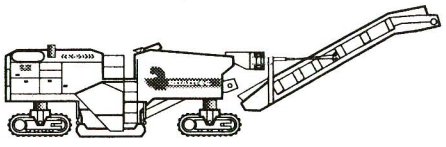
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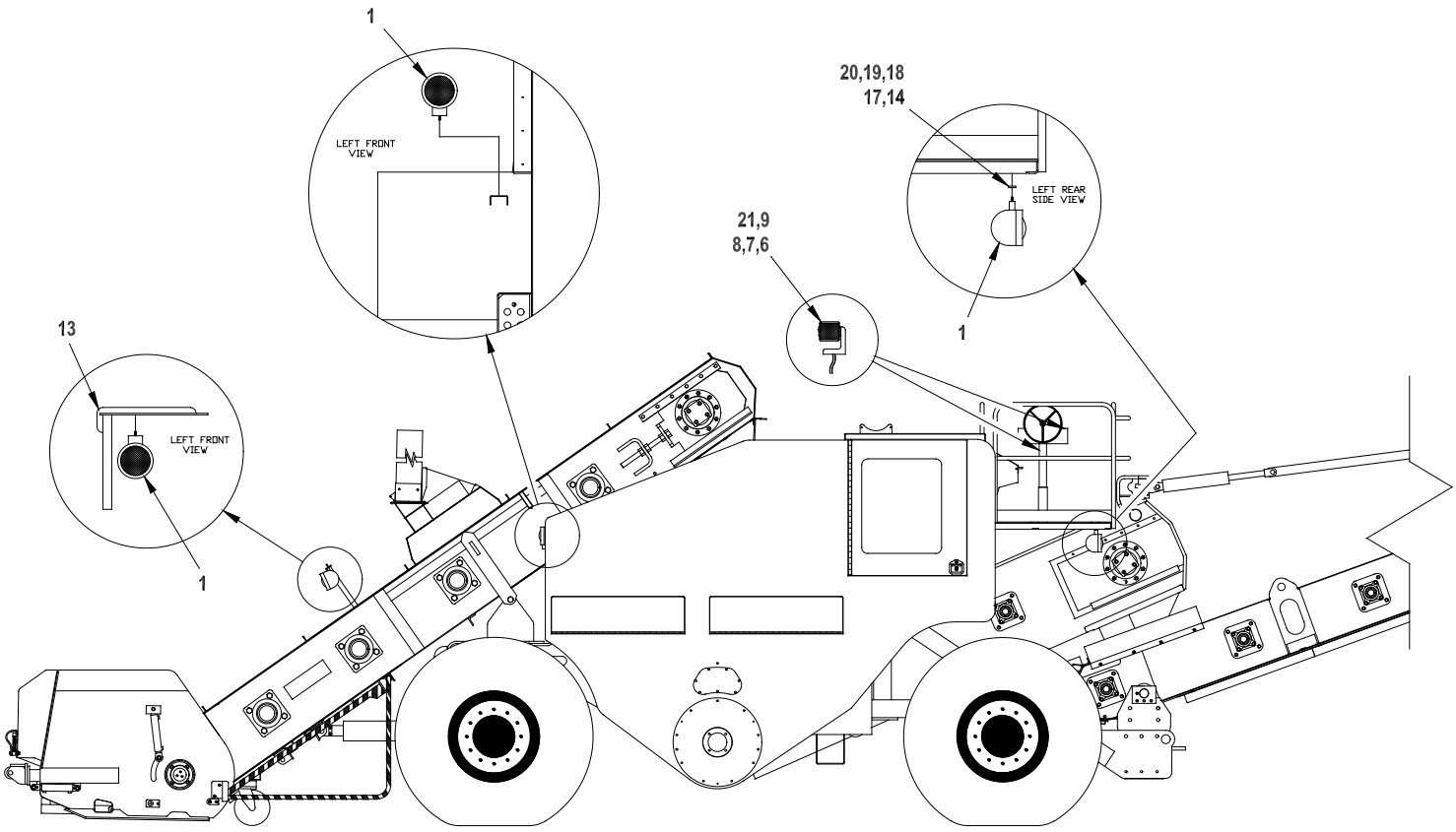
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SECTION 7 : OPTIONAL EQUIPMENT

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

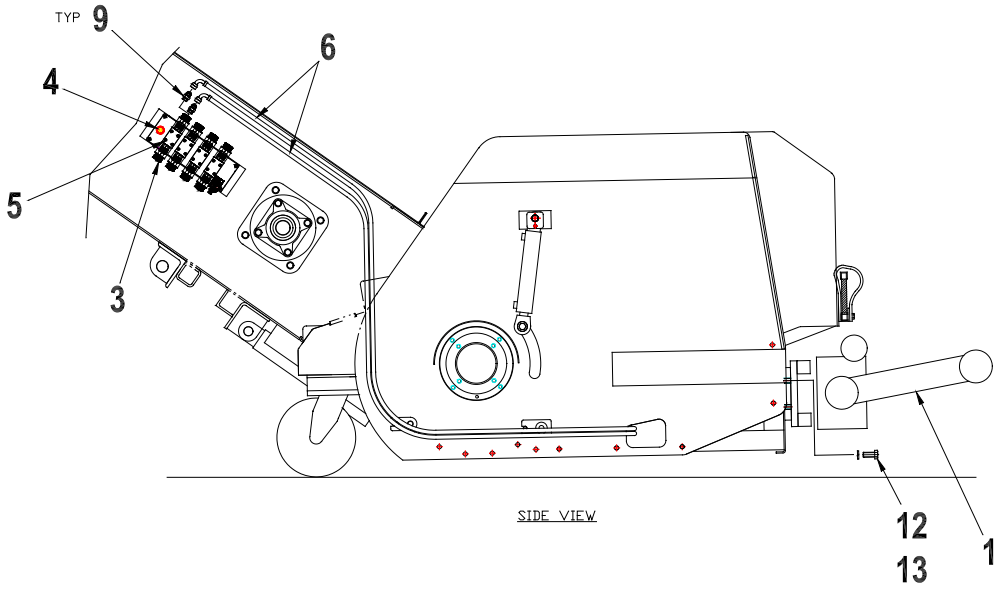
12 VDC. WORKING LIGHTS OPTION
(201880-01)



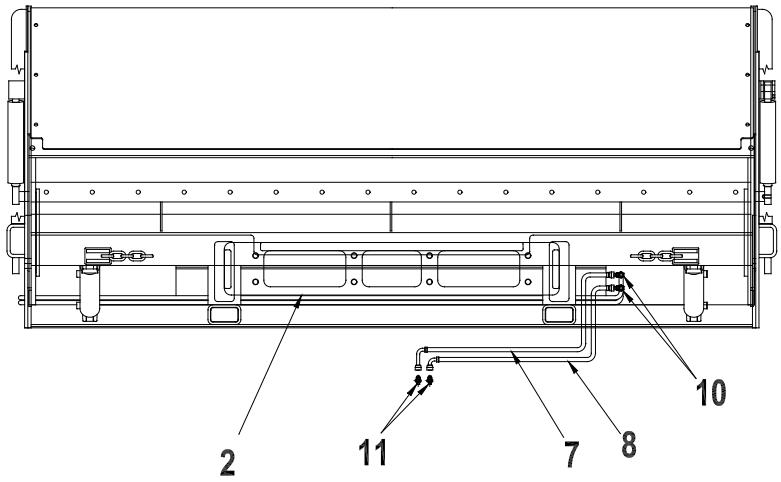
12 VDC. WORKING LIGHTS OPTION
(201880-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
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	LOCK WASHER # 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	LOCK WASHER 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	LOCK WASHER 1/4" SPRING STEEL	16

TRUCK HITCH OPTION
(201853-01)

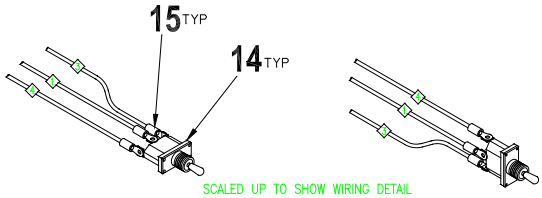


SIDE VIEW

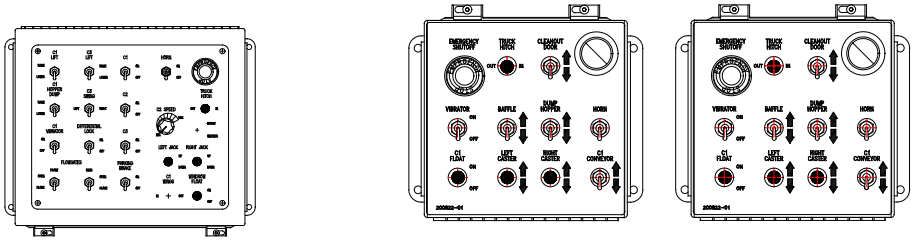


FRONT VIEW
TRUCK HITCH NOT SHOWN

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

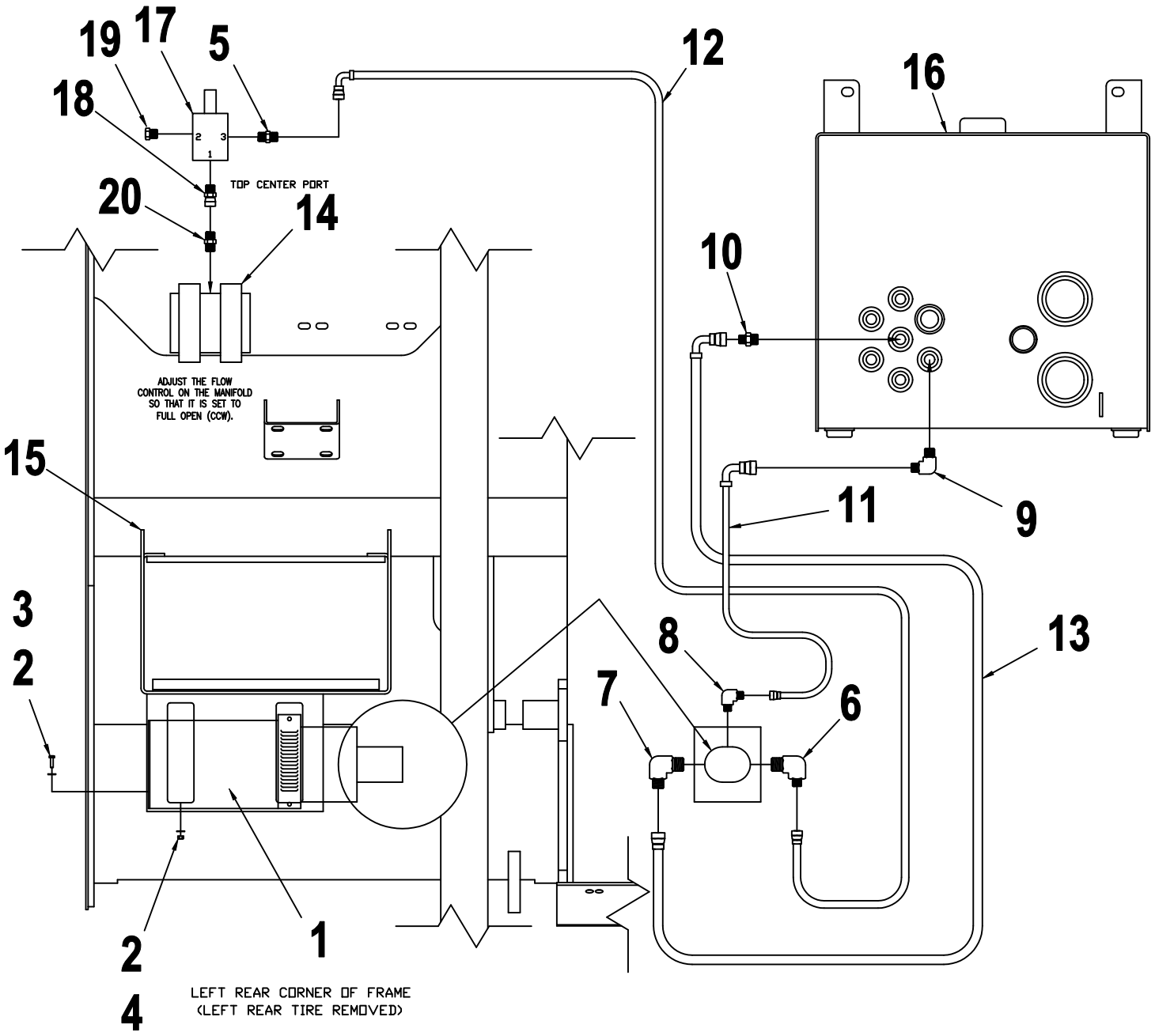
RIGHT HAND HOPPER CONTROL BOX

TRUCK HITCH OPTION
(201853-01)

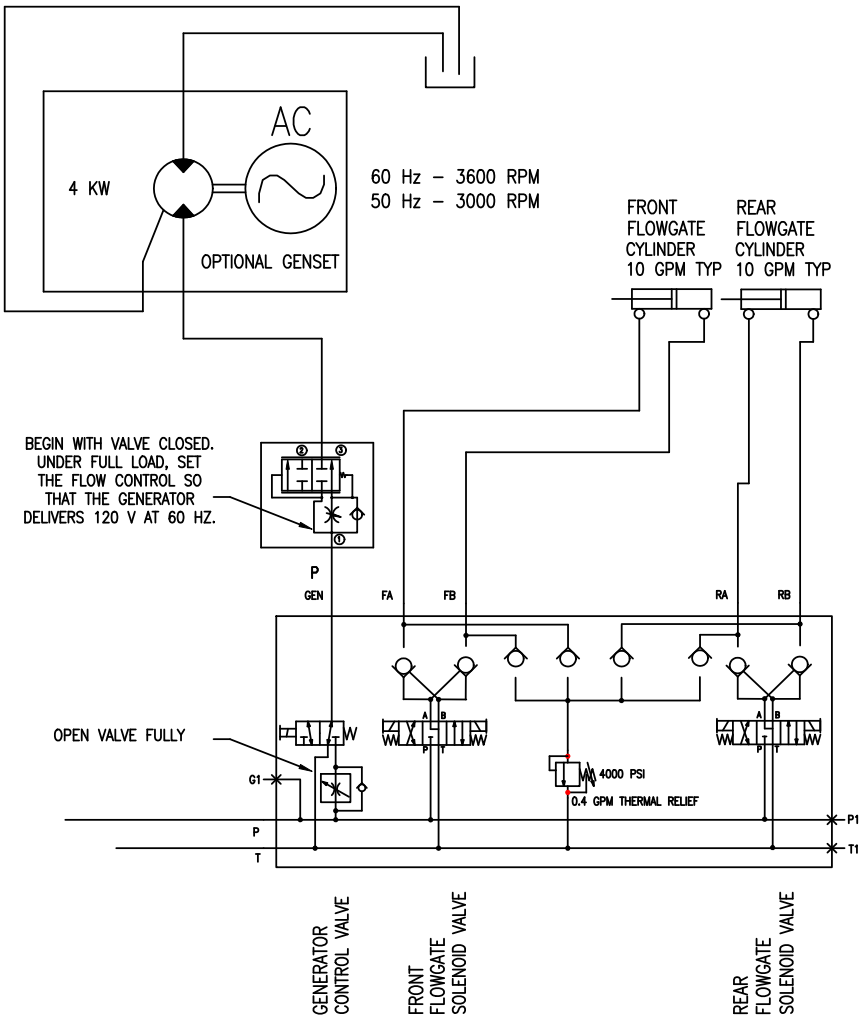
ITEM #	PART NO.	DESCRIPTION	QTY.
1	29E85	TRUCK HITCH	1
2	201811-01	TRUCK HITCH MOUNTING PLATE	1
3	143972-C12	VALVE - D03 MOTOR SPOOL	1
4	143972-C19	PRESSURE REDUCING VALVE	1
5	148745-04	SCREW - # 10-24 X 2 CAP	4
6	201881	HOSE ASSY - STD 1/4 X 240, 4X6ST-4X690	2
7	201882	HOSE ASSY - STD 1/4 X 36, 4X6ST-4X6LN90	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	00891	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)

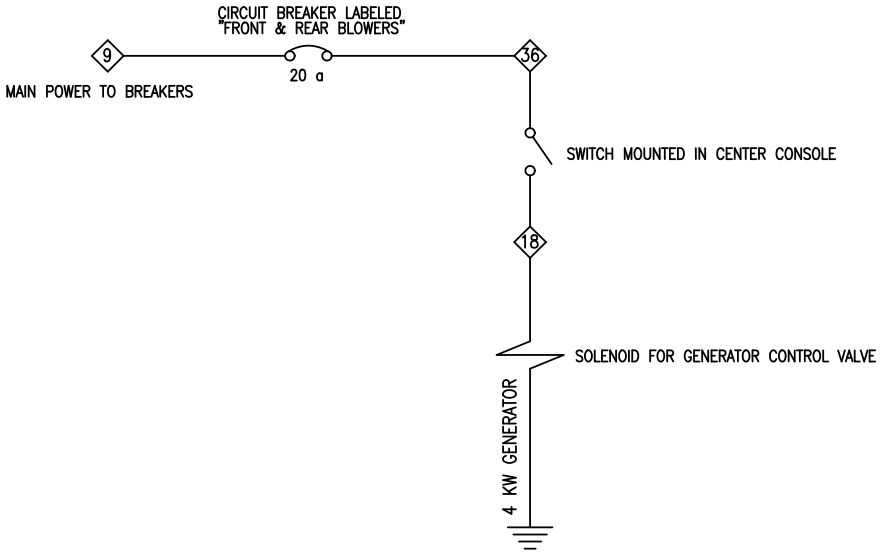
NEXT PAGE



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



HYDRAULIC SCHEMATIC



ELECTRICAL SCHEMATIC

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

ITEM #	PART NO.	DESCRIPTION	QTY.
1	135308-04	GENERATOR - 4kw-120V AC W/O FLOW CONTROL	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 - FLOWGATE GENERATOR MANIFOLD	REF
15	200183-01	BATTERY BOX WELDMENT	REF
16	200204-01	HYDRAULIC TANK WELDMENT	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:

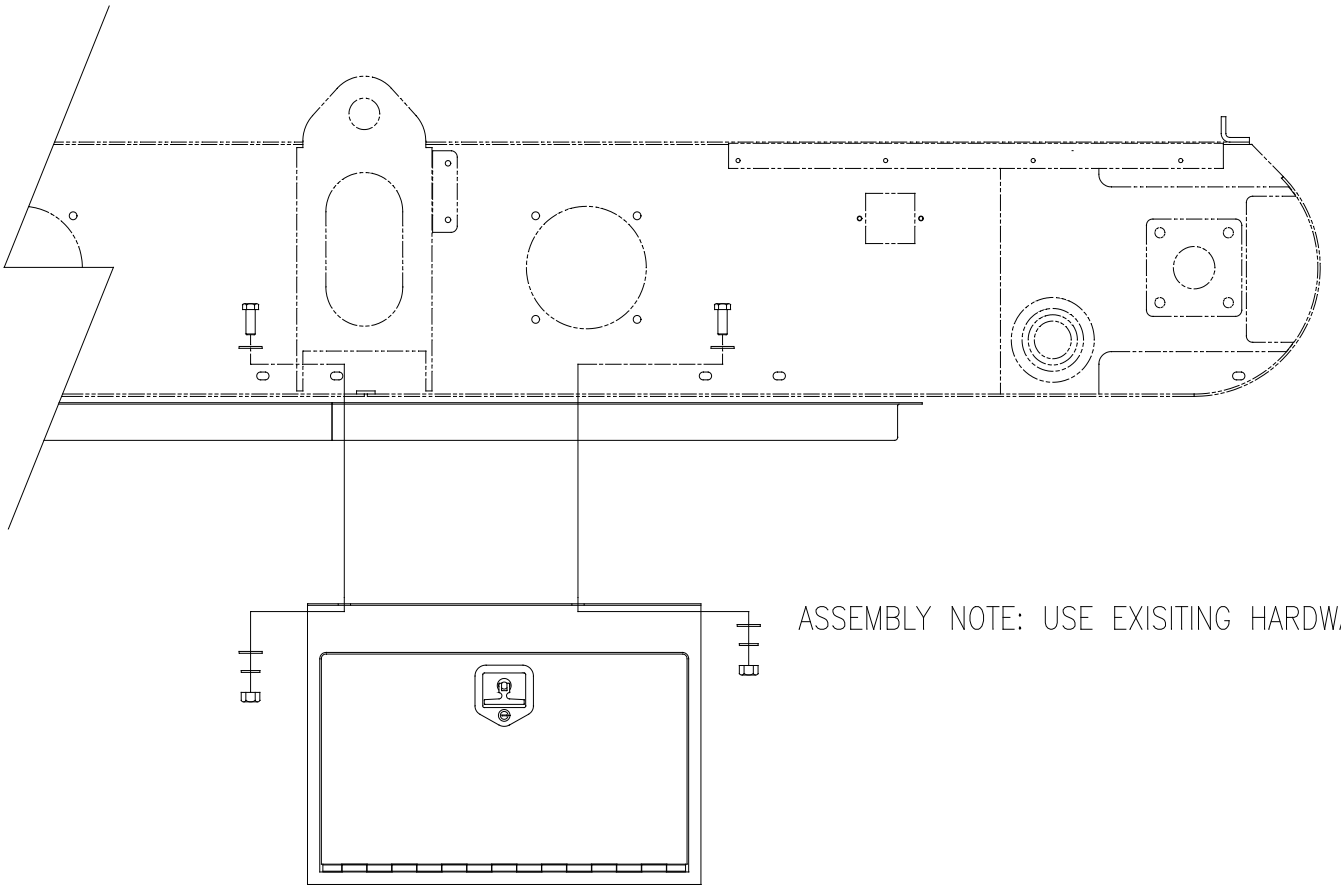
	3/8 CONDUIT	BLACK WIRE	WHITE WIRE	GREEN WIRE
FRONT TO BACK - RIGHT SIDE	264”	276”	276”	276”
RIGHT SIDE TO GENERATOR SET	144”	156”	156”	156”
FRONT TO BACK - LEFT SIDE	252”	264”	264”	264”
LEFT SIDE TO GENERATOR SET	20”	32”	32”	32”

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)

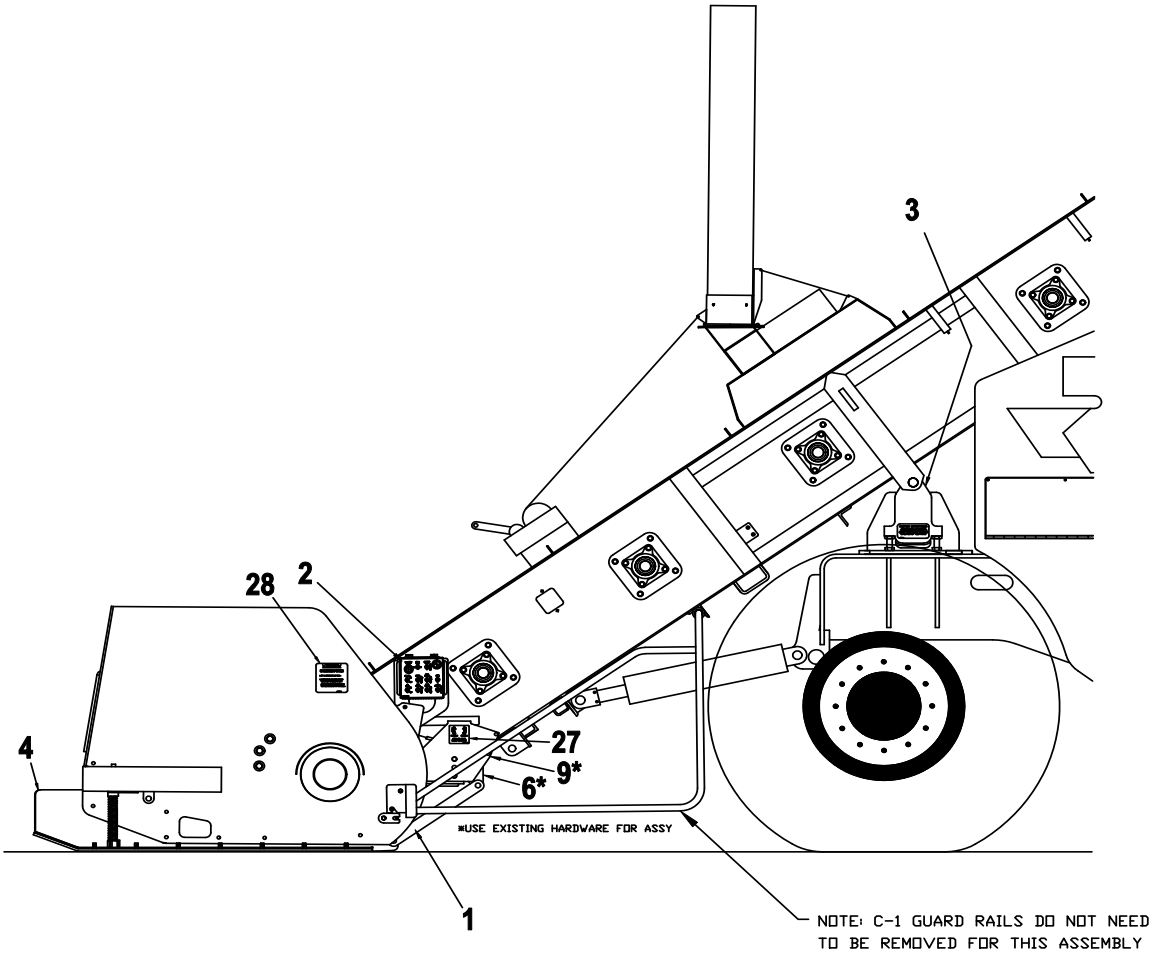


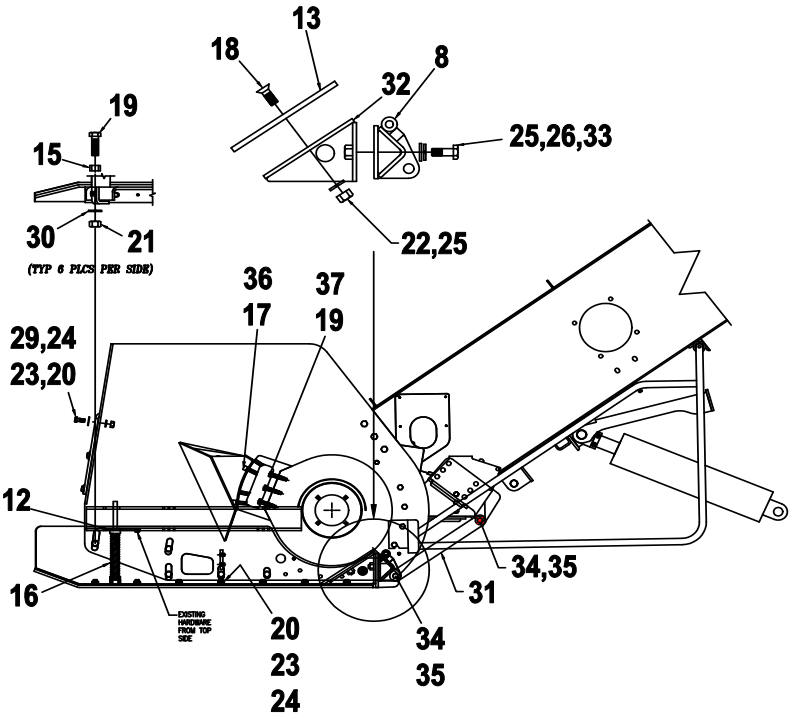
ASSEMBLY NOTE: USE EXISITING HARDWARE

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

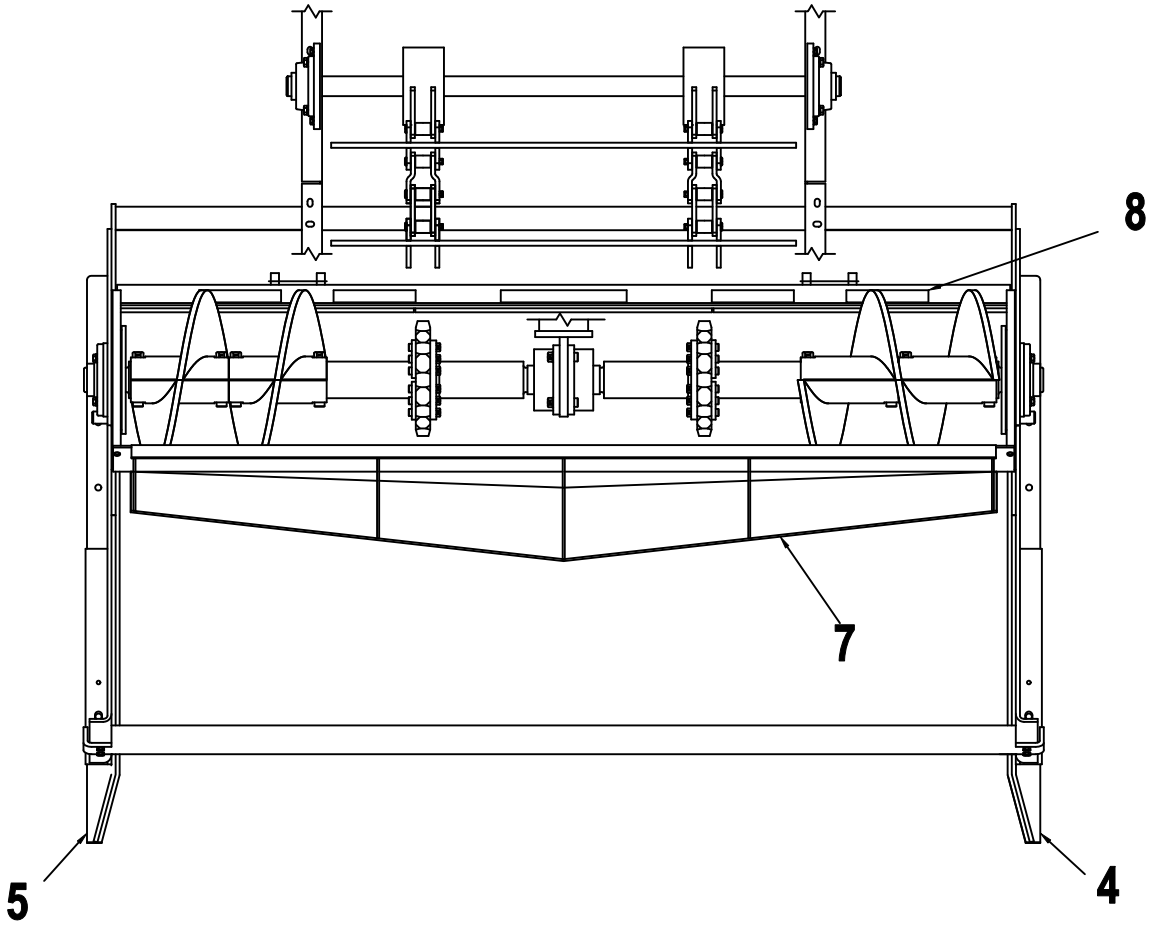
SB-2500C WINDROW OPTION ASSY.
(212471-01)

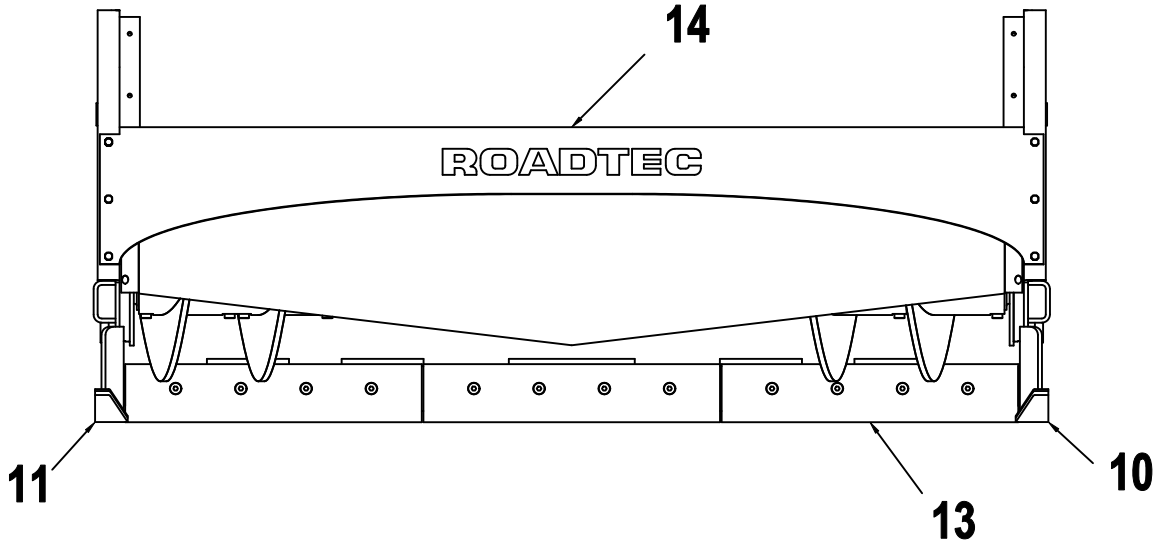
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SB-2500C WINDROW OPTION ASSY.
(212471-01)

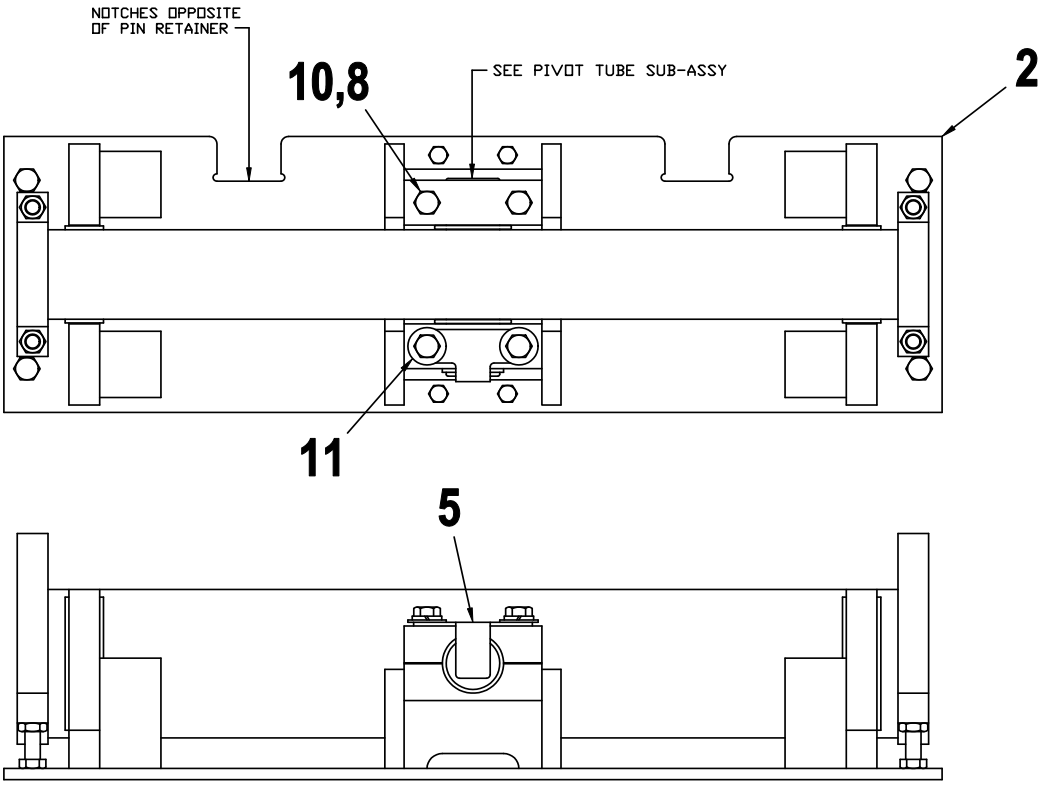


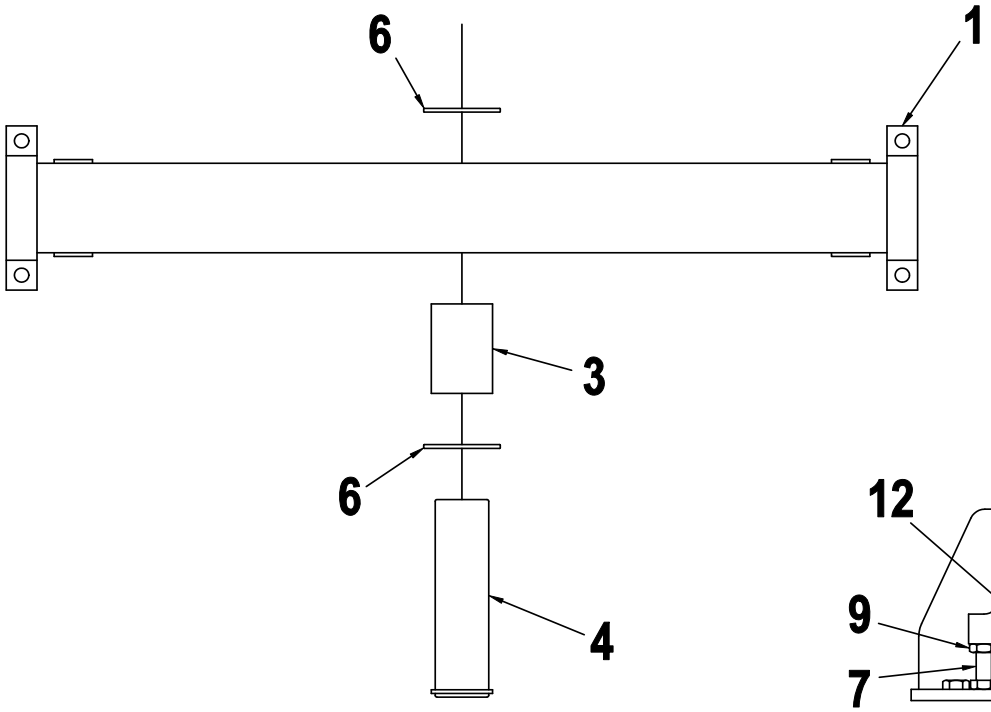


SB-2500C WINDROW OPTION ASSEMBLY
(212471-01)

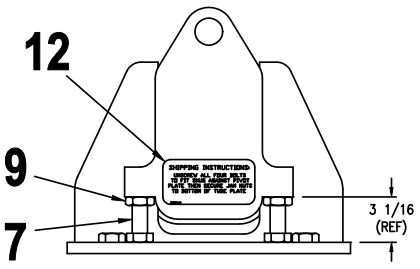
ITEM #	PART NO.	DESCRIPTION	QTY.
1	212043-01	WINDROW HYD. ASSY.	1
2	203236-01	WINDROW ELECTRICAL ASSY.	1
3	200855-01	WINDROW PIVOT SUB-ASSY.	1
4	202890-01	LH SKI WELMENT	1
5	202889-01	RH SKI WELDMENT	1
6	208032-03	CYLINDER MOUNT WELDMENT	2
7	202199-01	WINDROW PLOW WELDMENT	1
8	202200-01	SCRAPER MOUNT WELDMENT	1
9	202905-03	VALVE MOUNTING BRACKET	1
10	202909-03L	LH SKI SHOE WELDMENT	1
11	202909-03R	RH SKI SHOE WELDMENT	1
12	202907-04	PIN WELDMENT - 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 WELDMENT	2
32	209061-01	45 DEG. SCRAPER BLADE MOUNT WELDMENT	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

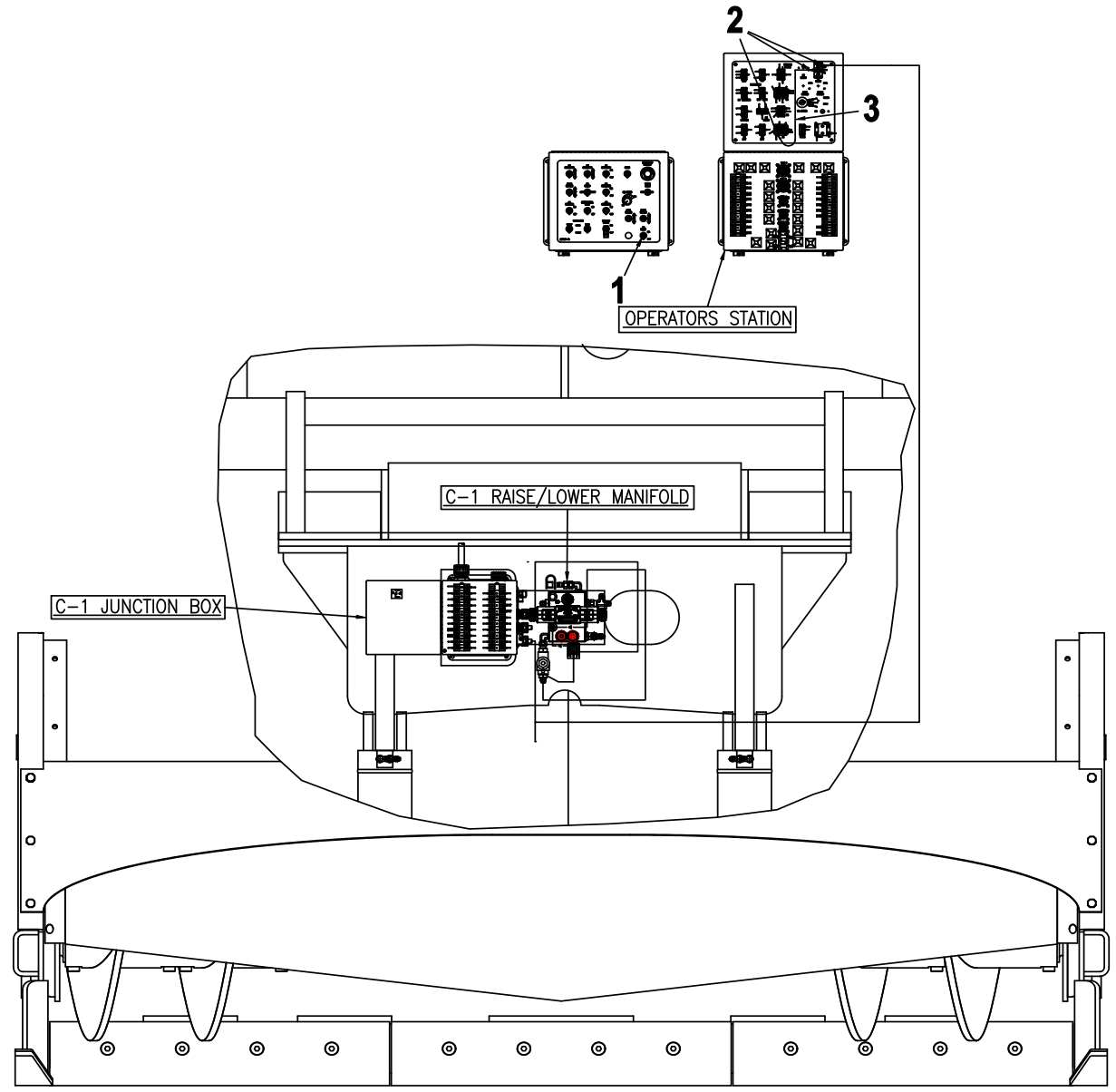


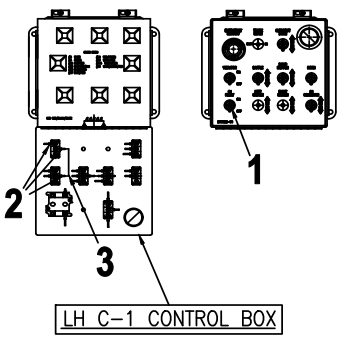
PIVOT TUBE IN LOCKED POSITION

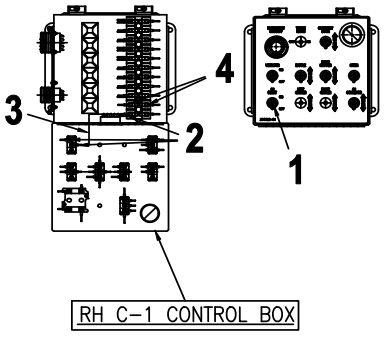
WINDROW PIVOT ASSY.
(200855-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
1	200852-01	WINDROW PIVOT TUBE WELMENT & MACH.	1
2	200853-01	SWIVEL C-1 PIVOT WELDMENT & MACH.	1
3	200682	BUSHING - GARMAX 3.5 ID X 4 OD X 6" LG	1
4	200854-03	SWIVEL PIVOT PIN WELDMENT & 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	LOCK WASHER - 1" SPRING STEEL	4
11	83376-04	FLAT WASHER - 1" STEEL	2
12	200932-03	DECAL - WINDROW SHIPPING	2

WINDROW ELECTRICAL ASSY.
(203236-01)





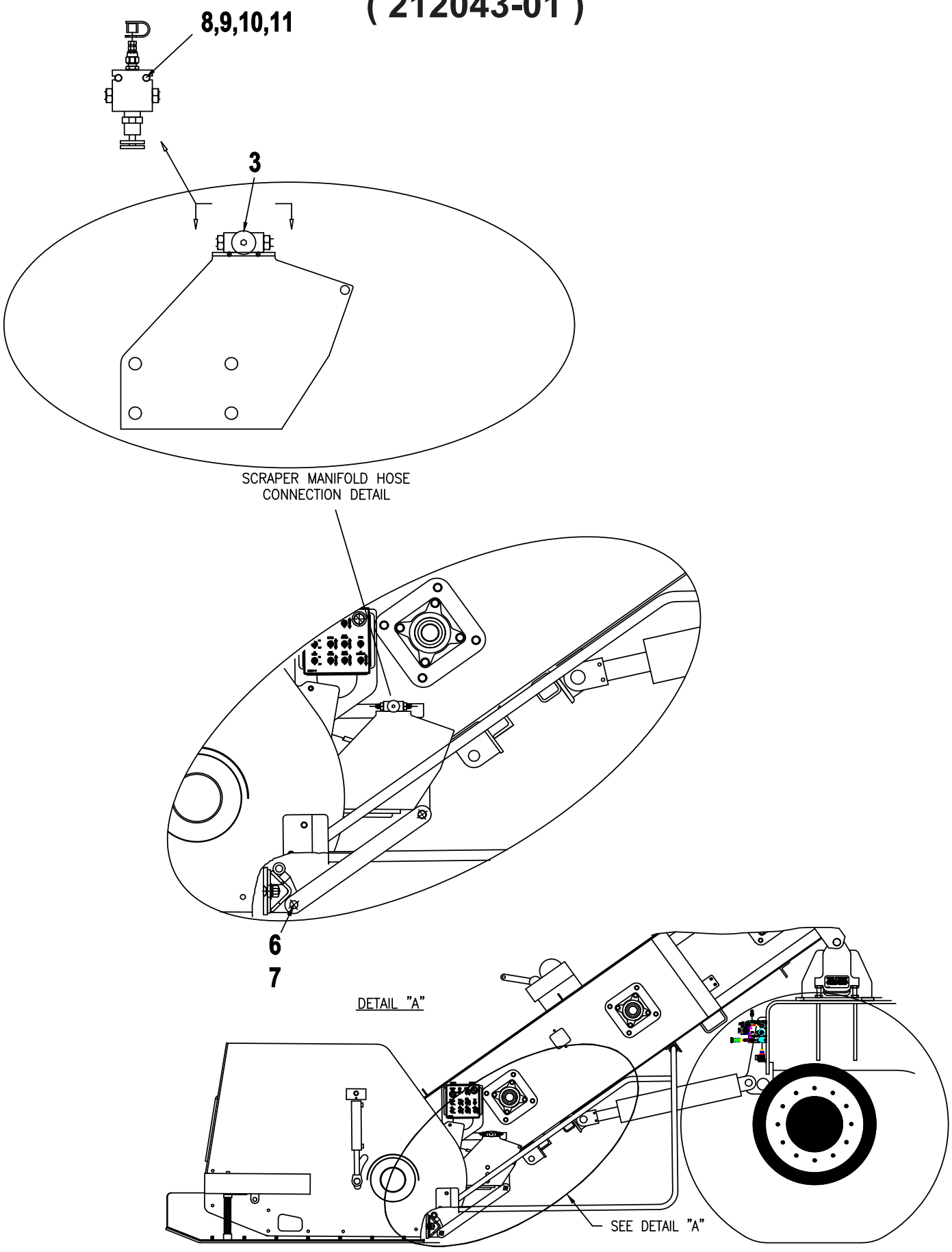


WINDROW ELECTRICAL ASSY.
(203236-01)

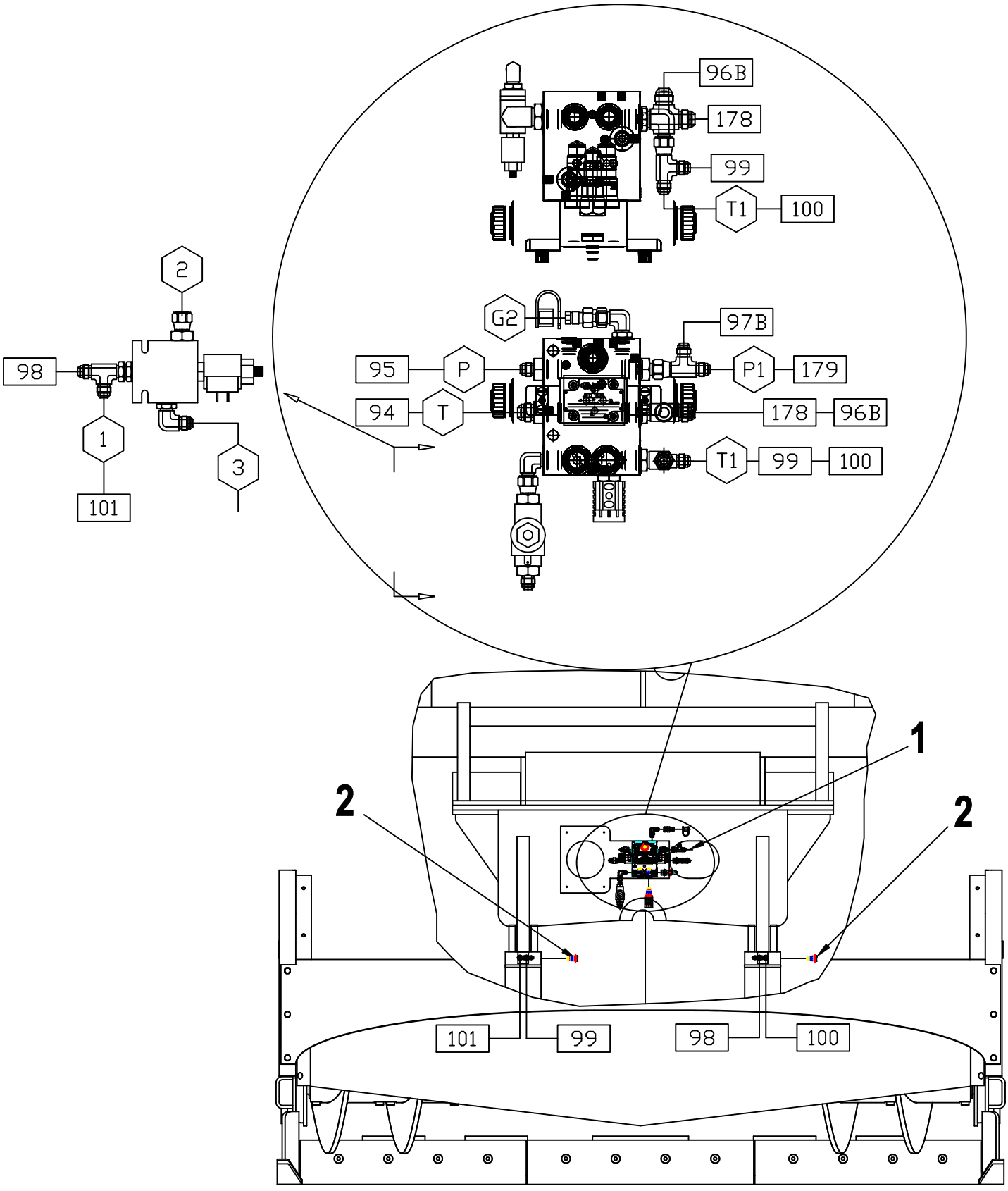
ITEM #	PART NO.	DESCRIPTION	QTY.
1	13E68	TOGGLE SWITCH - SP ST ON / OFF	3
2	93253	WIRE - TERMINAL RING 16 GA. (# 10)	9
3	84316-04	WIRE - 16-2 ALPHA 4" LG	3
4	28Y52	ELEC. - TERMINAL FEMALE NON-INSUL. .250	2

WINDROW HYDRAULIC ASSY.
(212043-01)

NEXT PAGE



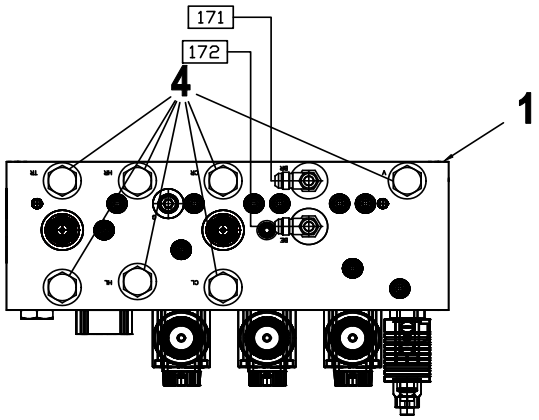
WINDROW HYDRAULIC ASSY.
(212043-01)

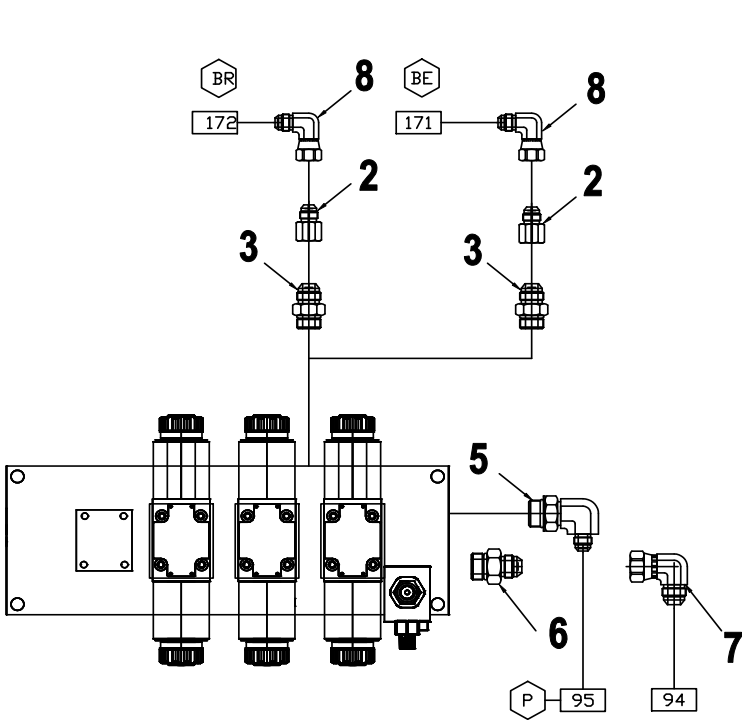


WINDROW HYDRAULIC ASSY.
(212043-01)

ITEM #	PART NO.	DESCRIPTION	QTY.
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 WELDMENT - 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	LOCK WASHER - 1/4" SPRING STEEL	2
10	83056	LOCK WASHER - 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 CONTROLS MANIFOLD SUB.-ASSY.	1

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





(X) – ITEM

XXX – HOSE NUMBER

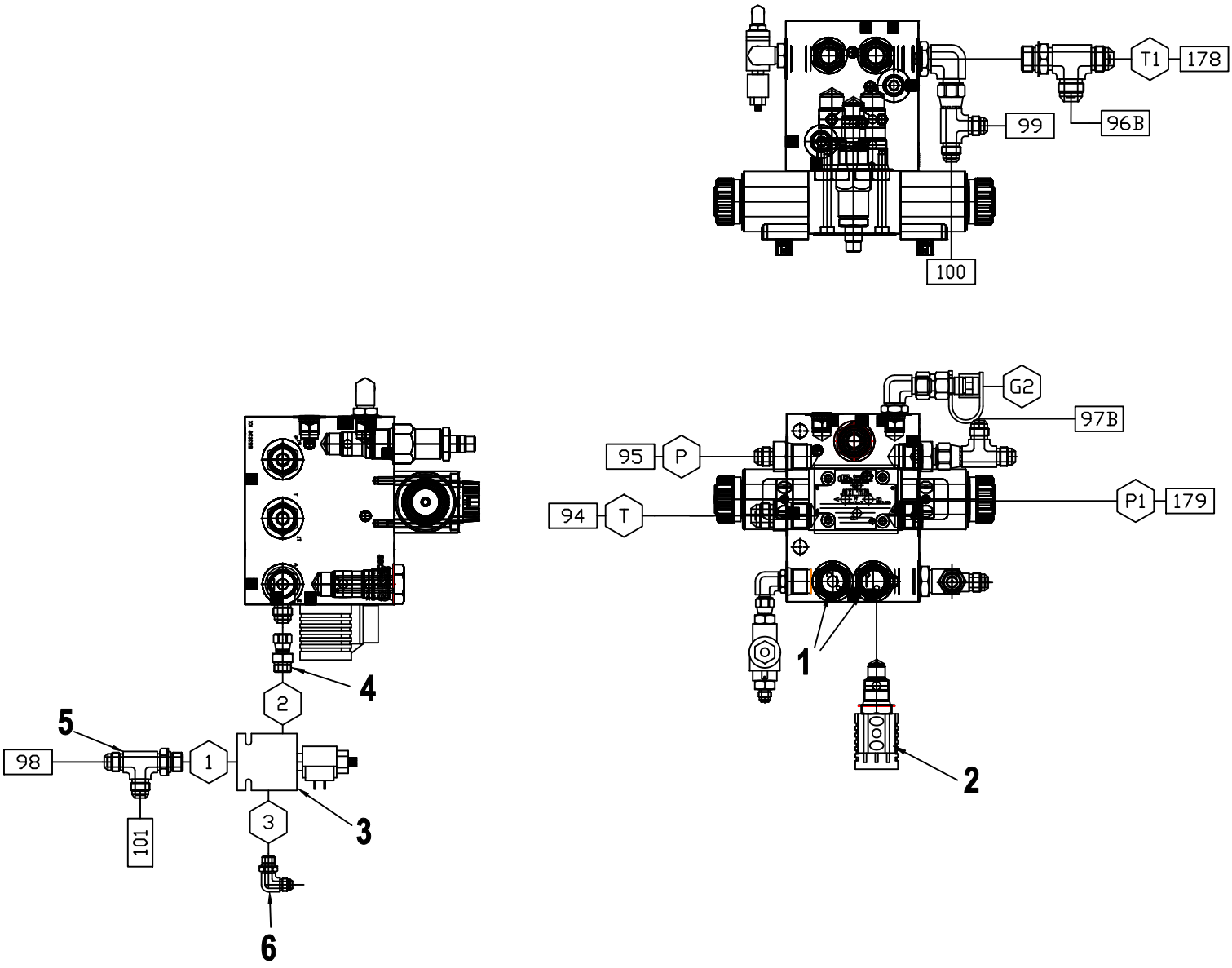
(XX) – MANIFOLD PORT

88
89
90
91
92
93
138
139

PLUG HOSES WITH ITEM #9

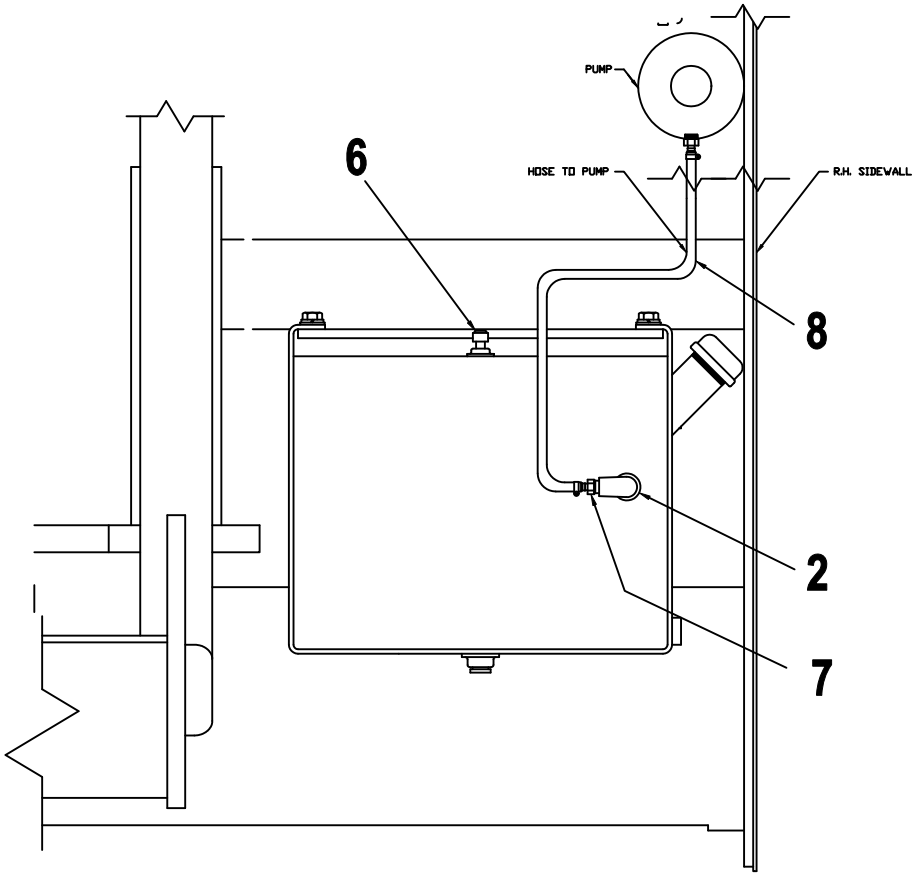
REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	146254-03	VALVE - C-1 HOPPER CONTROL MANIFOLD	1
2	135775-04	FIT - RESISTOR 6 JIC X 1/16 ORIFICE	2
3	83469-04	CONNECTOR - 6 JIC X 8 SAE MALE	2
4	83767-04	FIT - PLUG 8 SAE	2
5	92987	FIT - 6 JIC X 10 SAE 90 DEG.	1
6	83704-04	CONNECTOR - 8 JIC - 10 SAE MALE	1
7	83732-04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

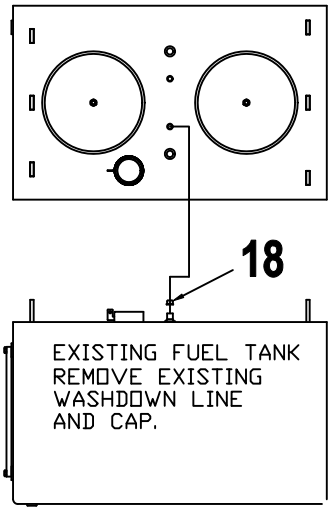
WINDROW C-1 RAISE/LOWER MANIFOLD ASSY.
(212045-03)

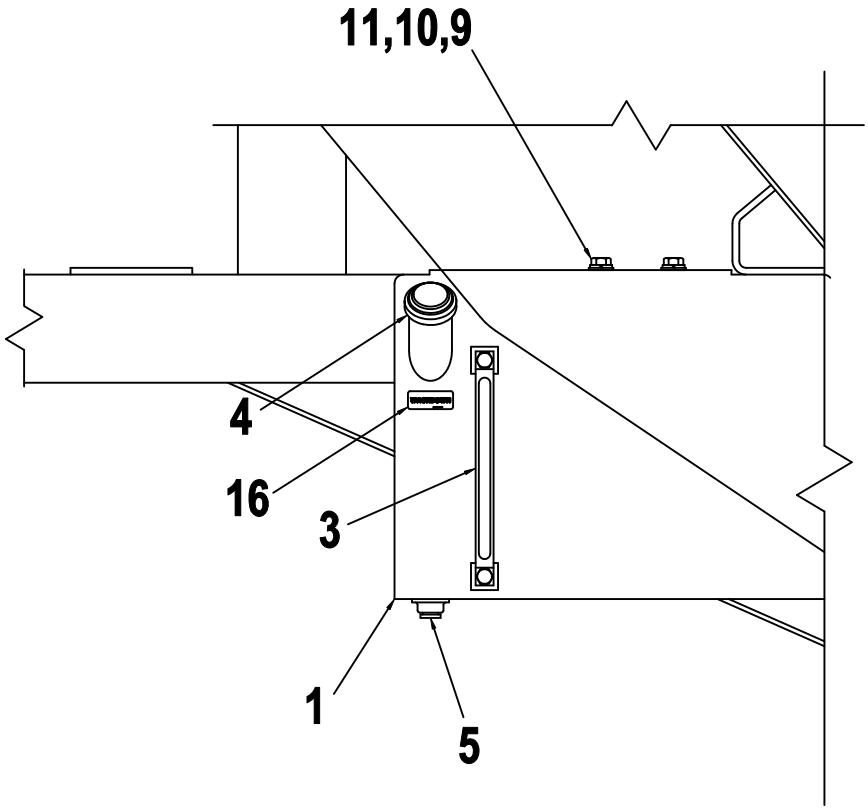


REF NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	143972-C32	VALVE - CARTRIDGE PO CHECK	2
2	143972-C33	VALVE - CARTRIDGE SOLENOID N/C SPOOL	1
3	203093-04	VALVE - SOLENOID 2 POS - 3 WAY	1
4	135923-04	FIT - 6 SAE MALE - 6 JIC FEM. SW STR.	1
5	91665-04	FIT - RUN TEE 6 JIC M - 6 SAE M	1
6	83734-04	FIT - 6 JIC - 6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

ENVIRONMENTAL WASHDOWN ASSY.
(217955-01)







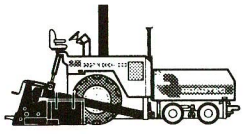
ENVIRONMENTAL WASHDOWN ASSEMBLY
(217955-01)

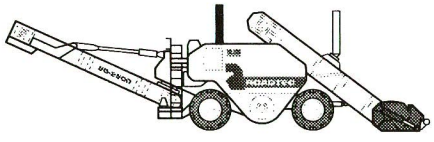
ITEM #	PART NO.	DESCRIPTION	QTY.
1	200184-01	WASHDOWN TANK WELDMENT	1
2	123754	REDUCER - 3/4" NPT X 3/8" NPT FM 90 DEG.	1
3	97412-04	GAUGE - 12" LIQUID LEVEL CHANNEL	1
4	90332	PLUMB - 2" NPT PIPE CAP	1
5	142610-04	PIPE PLUG - 1" NPT HEX HD PLUG	1
6	27X25	VALVE - TANK VENT (15-20 PSI)	1
7	80187	HOSE BARB - 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

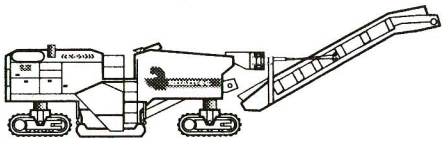
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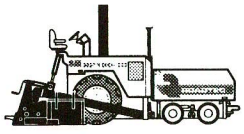
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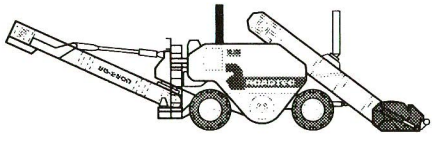
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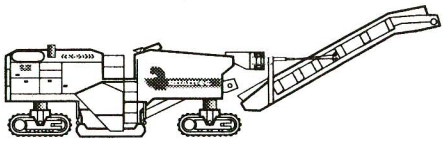
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