# ROADTEC SB-2500D MATERIAL TRANSFER VEHICLE




## PARTS MANUAL

**P.N. 217000-N**
**S/N. 1221-1250**
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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** _____

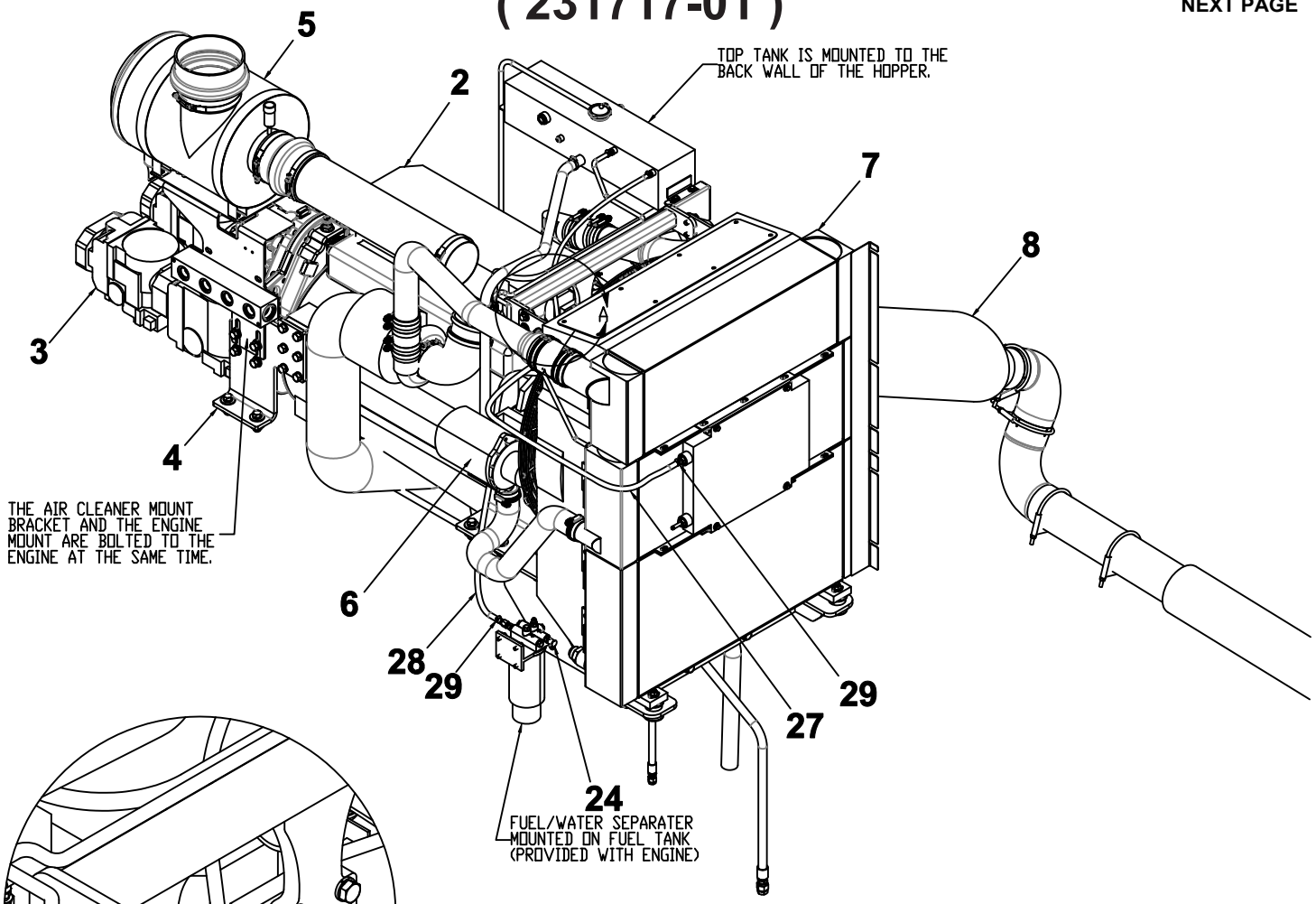
| |
|---|
| **MACHINE MODEL:** |
| **SERIAL NO.:** |
| **CATALOG NO.:** |
| **ENGINE MAKE:** |
| **SERIAL NO.:** |
| **MODEL NO.:** |

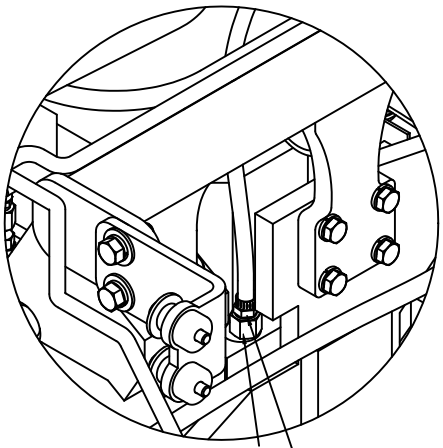
# SECTION 1 : ENGINE


| 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 |

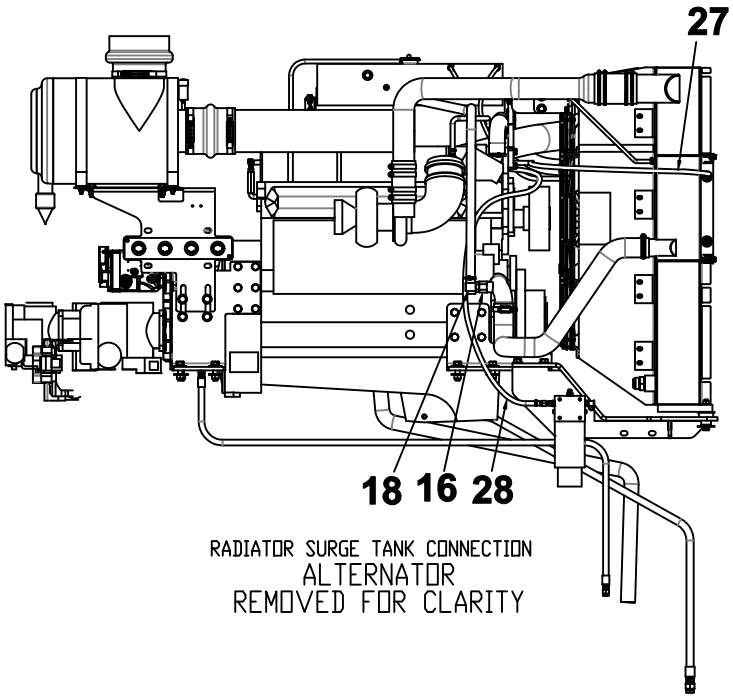
# SB-2500D ENGINE ASSEMBLY
# ( 231717-01 )

NEXT PAGE




TOP COOLANT VENT
DETAIL A




RADIATOR SURGE TANK CONNECTION
ALTERNATOR
REMOVED FOR CLARITY

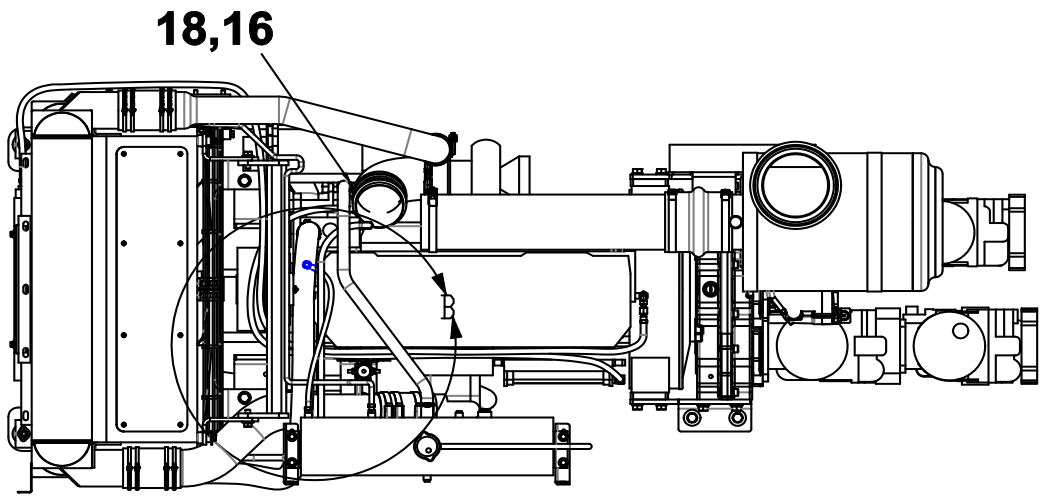


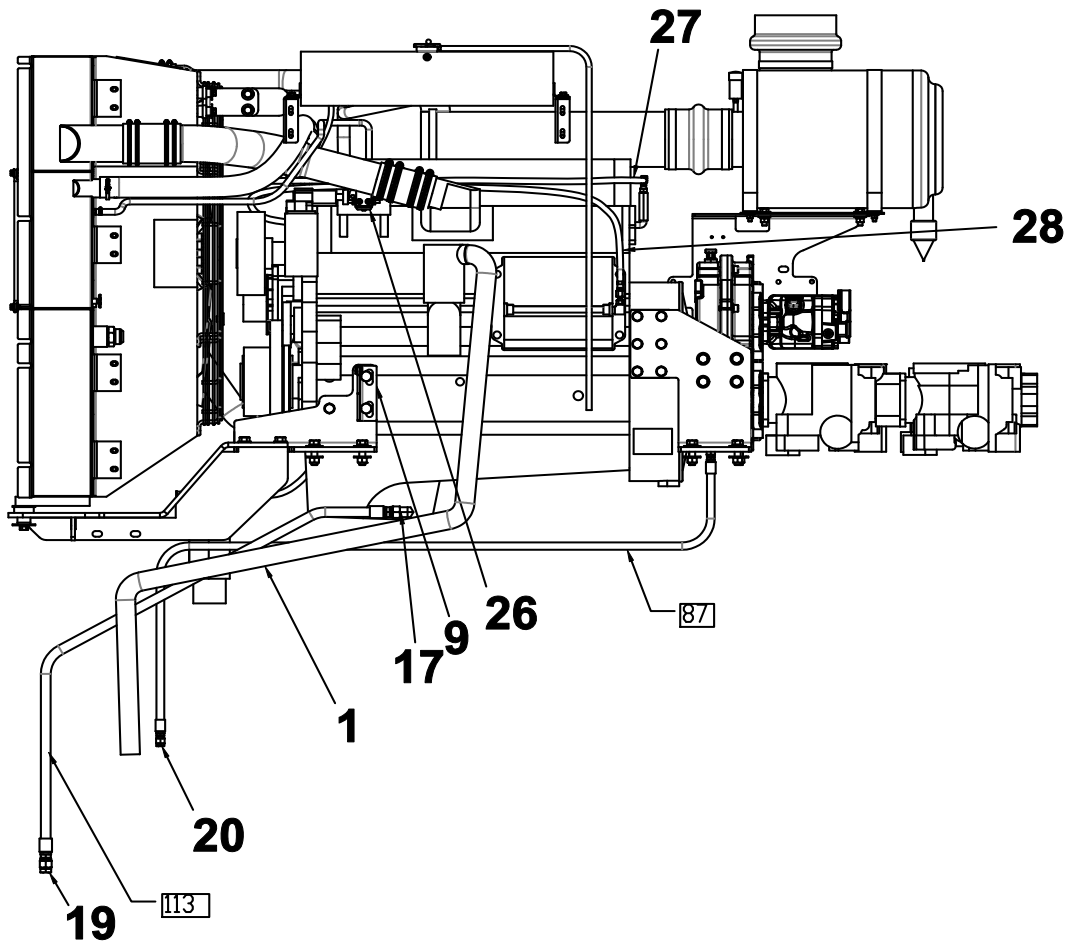
ROADTEC an Astec Industries Company

# SB-2500D ENGINE ASSEMBLY
# ( 231717-01 )



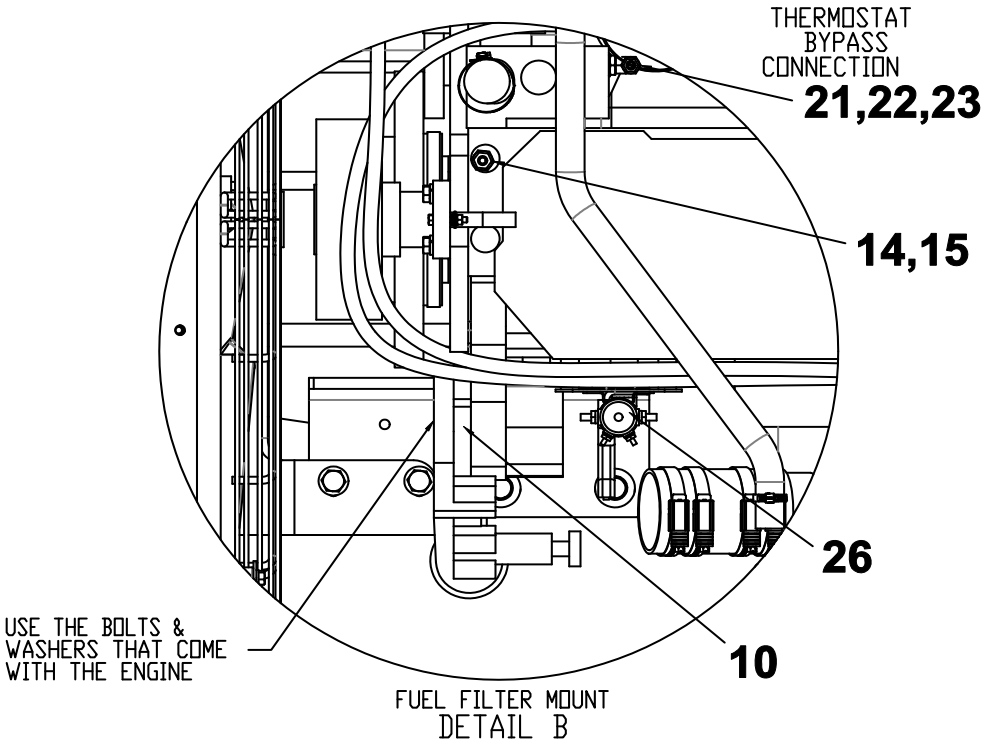
RADIATOR SURGE TANK CONNECTION



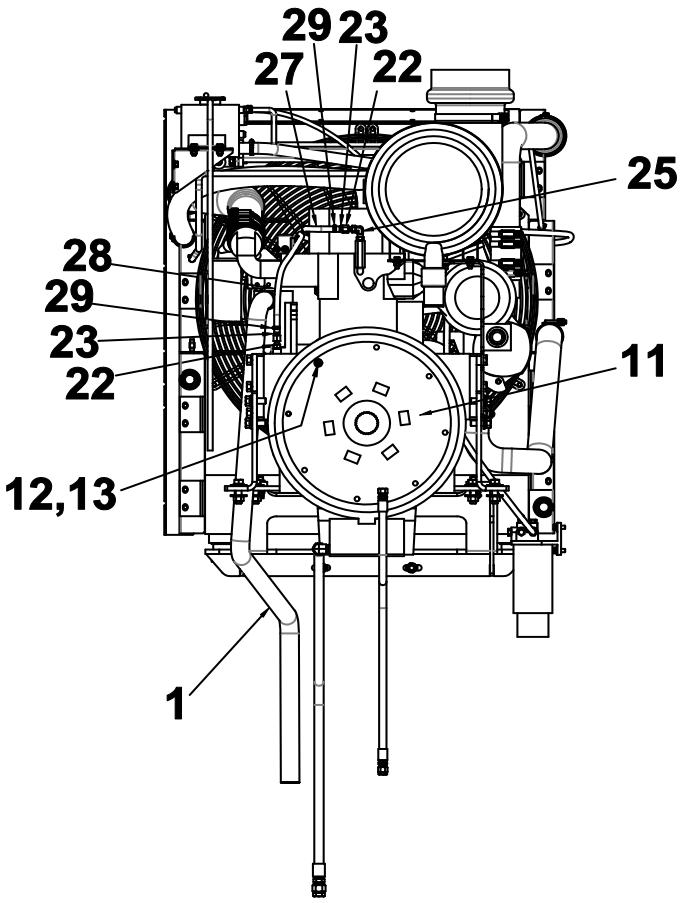



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# SB-2500D ENGINE ASSEMBLY
# ( 231717-01 )




FUEL FILTER MOUNT
DETAIL B

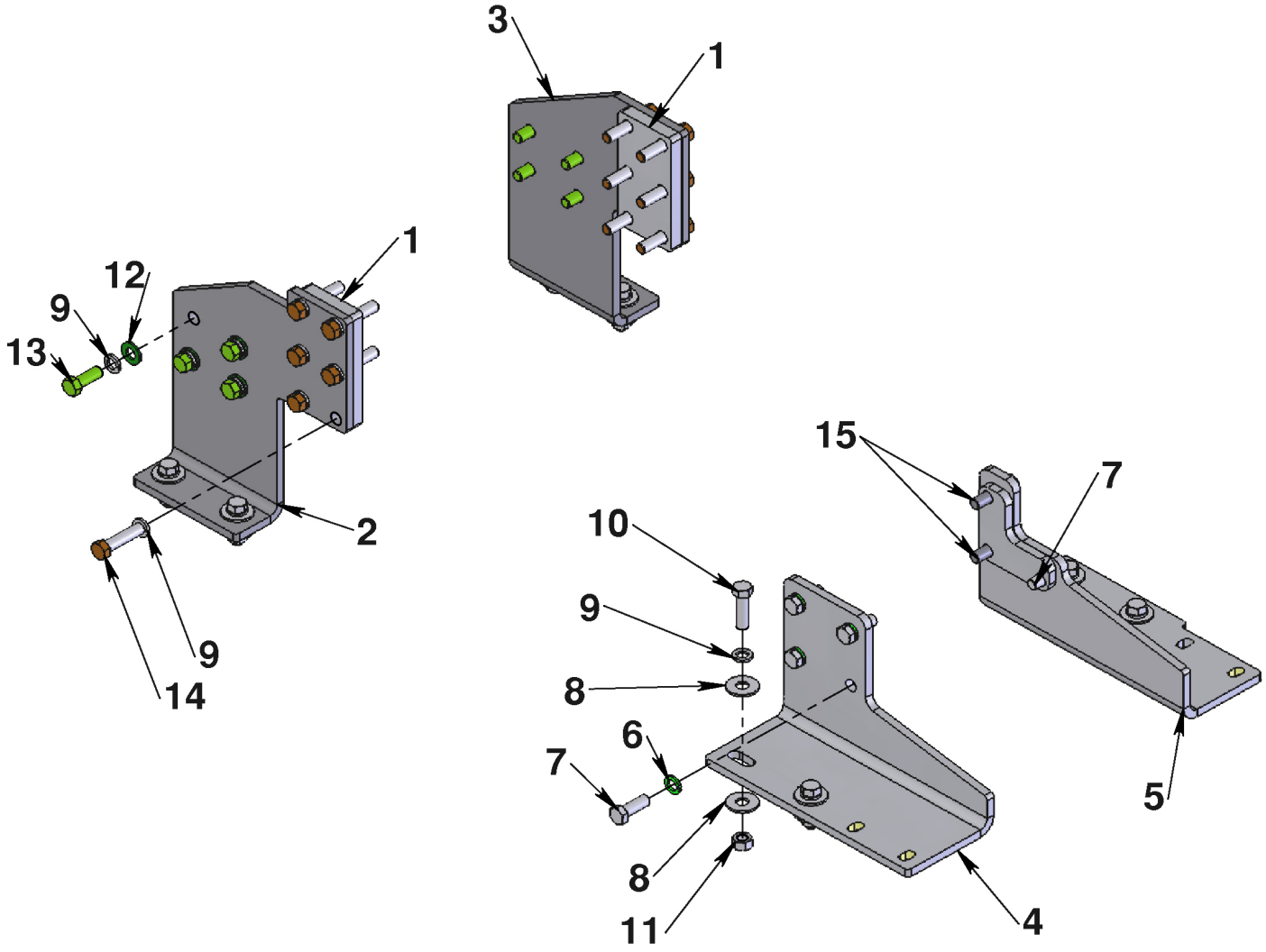



PUMP ASSEMBLY
REMOVED FOR CLARITY

# 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 | | | |

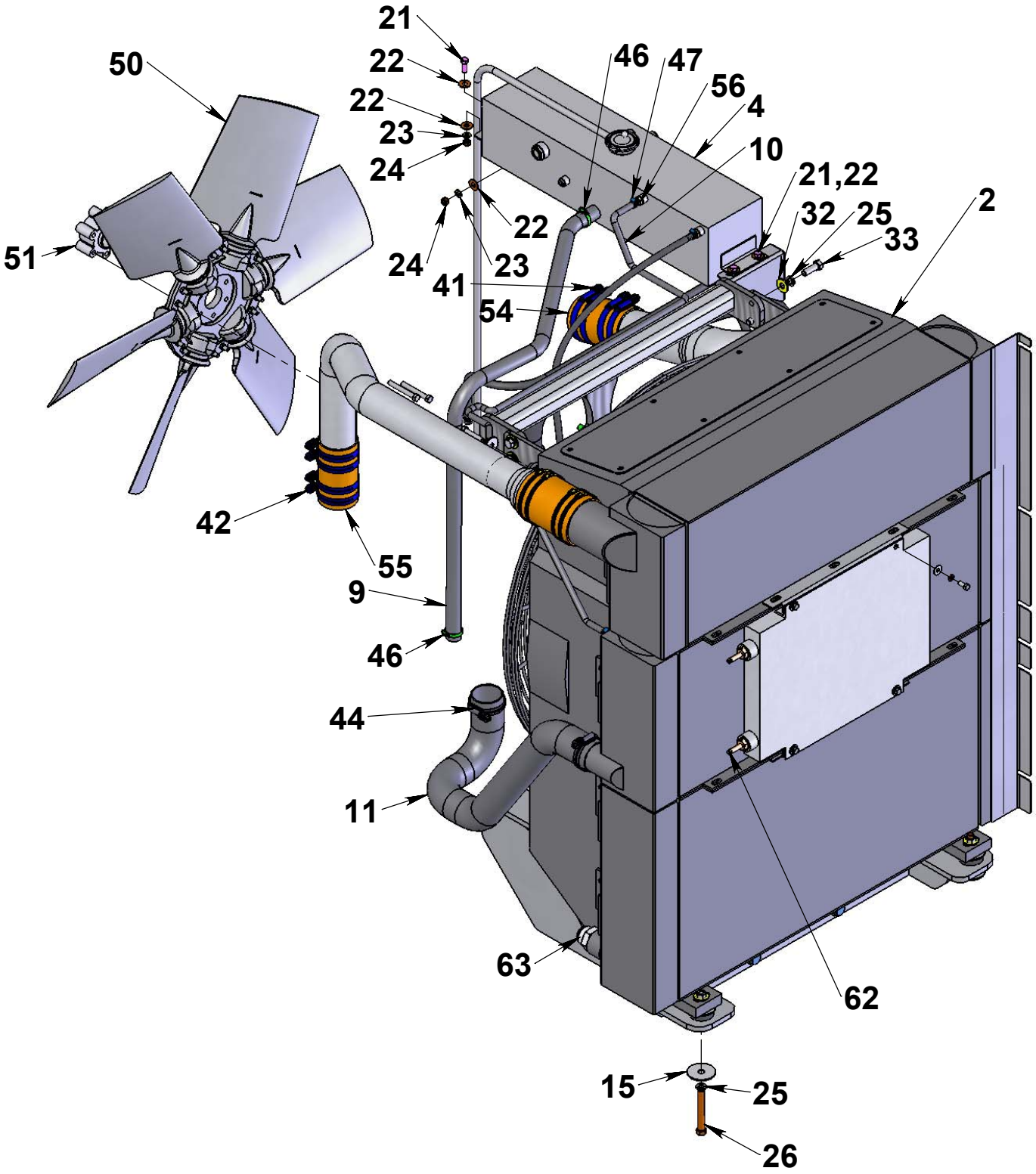
# SB-2500D ENGINE MOUNT ASSEMBLY
# ( 216164-01 )




| 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 |

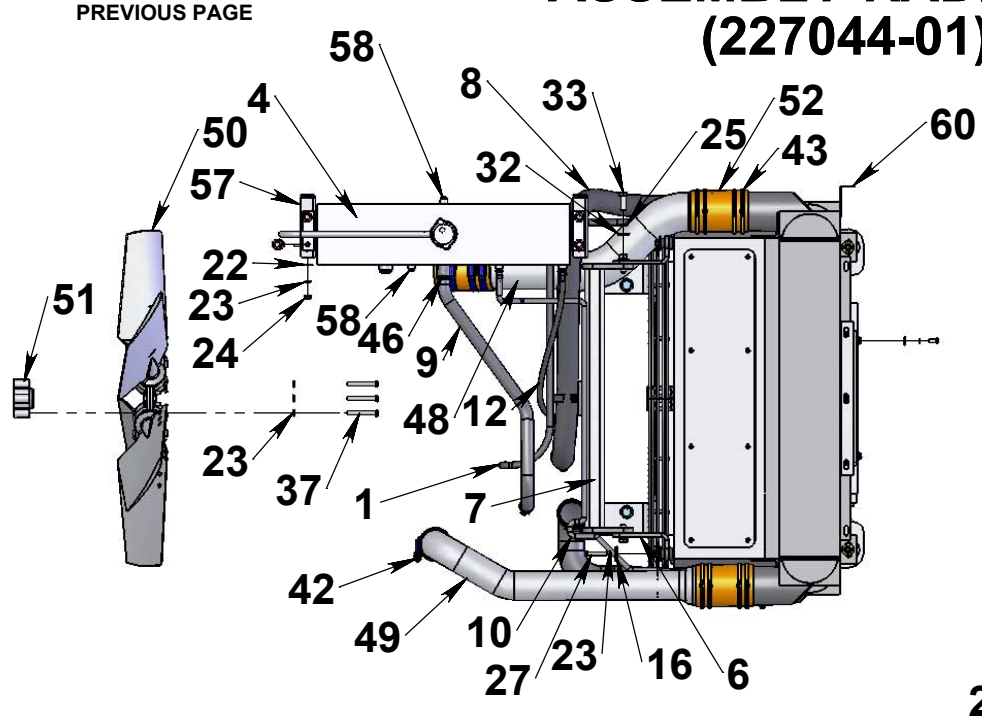
# ASSEMBLY-RADIATOR
# (227044-01)

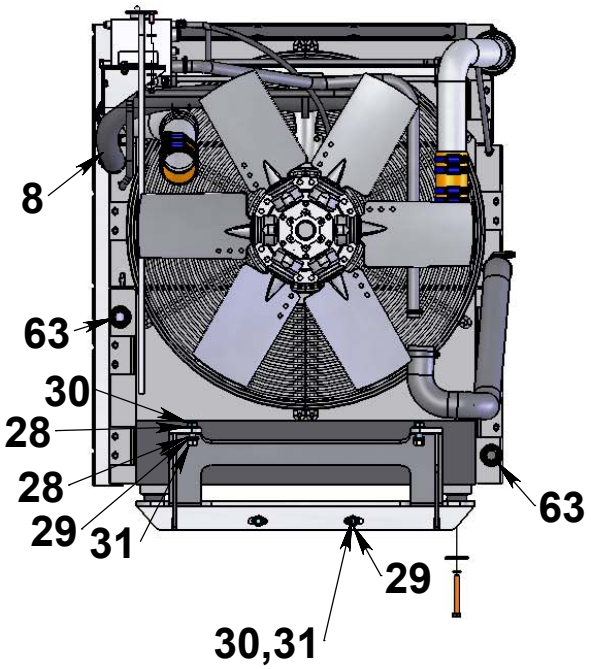
NEXT PAGE

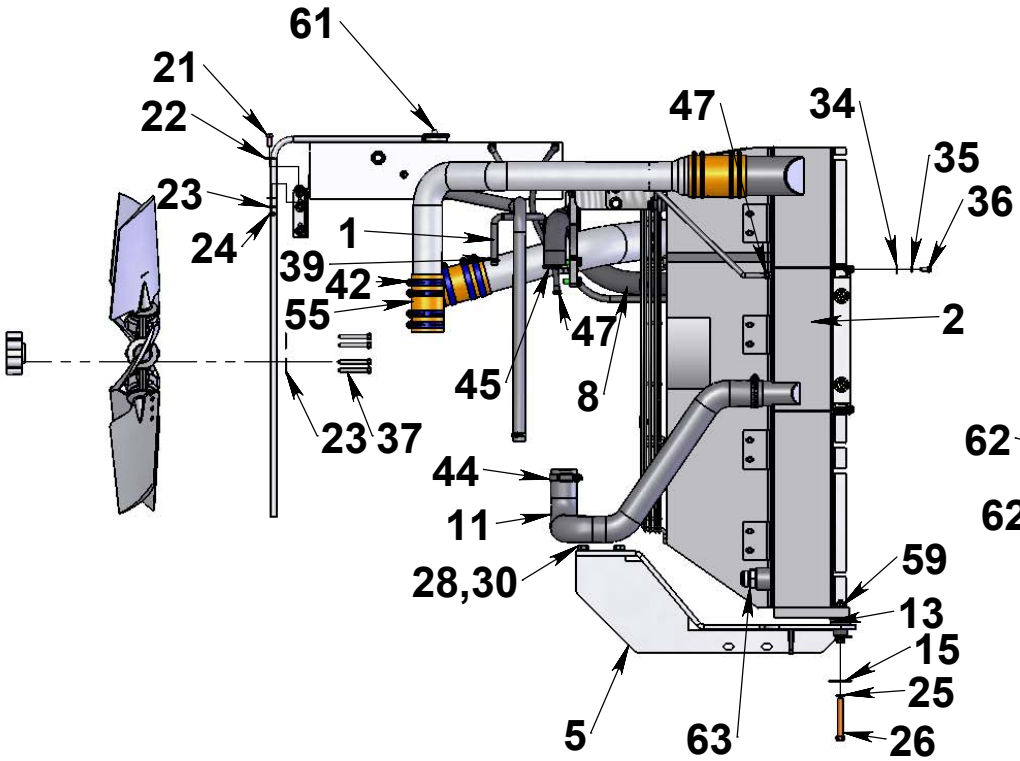


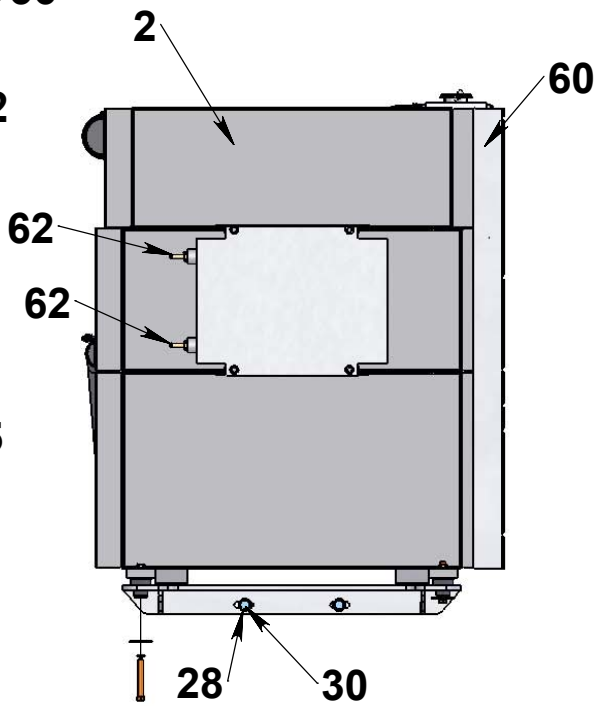
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# ASSEMBLY-RADIATOR (227044-01)



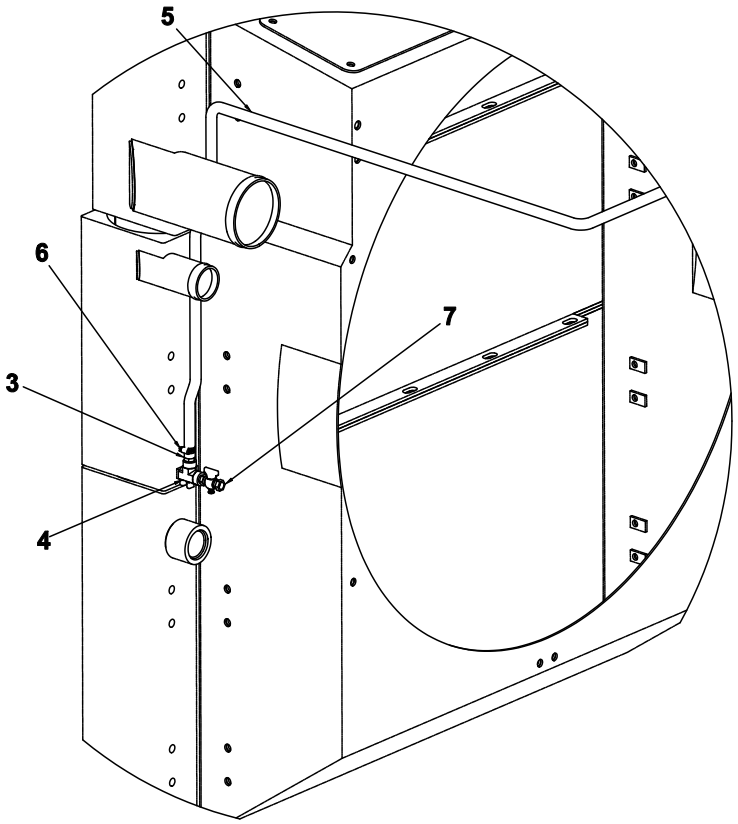
# ASSEMBLY-RADIATOR
# (227044-01)

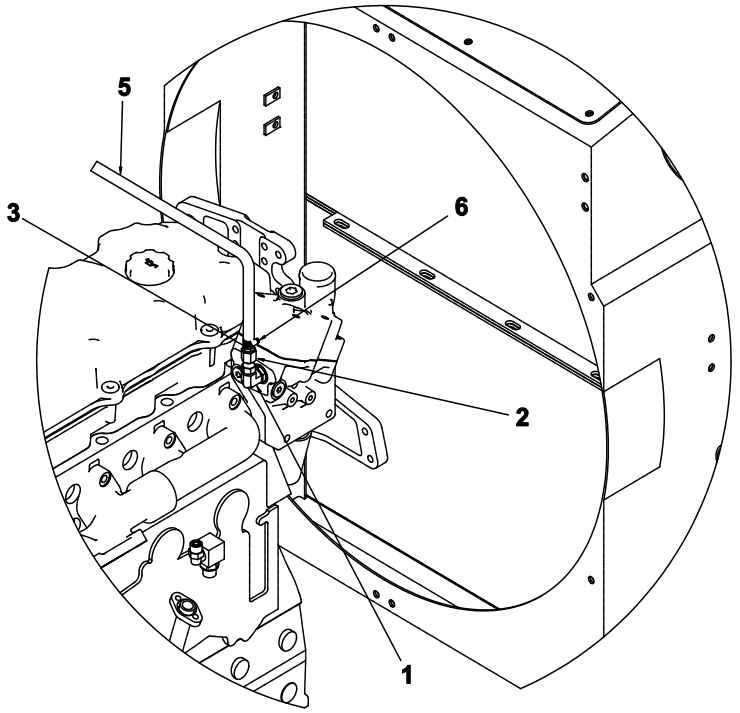
| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 227044-01-1 | 3/8" ID FUEL HOSE X 68" | 1 |
| 2 | 217192-01 | COOLING PACKAGE | 1 |
| 3 | 203544-03 | ENGINES-COOL * FUEL COOLER | 1 |
| 4 | 216349-03 | TANK * TOP TANK TIER III | 1 |
| 5 | 217195-02 | WELDMENT-BOTTOM SUPPORT | 1 |
| 6 |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

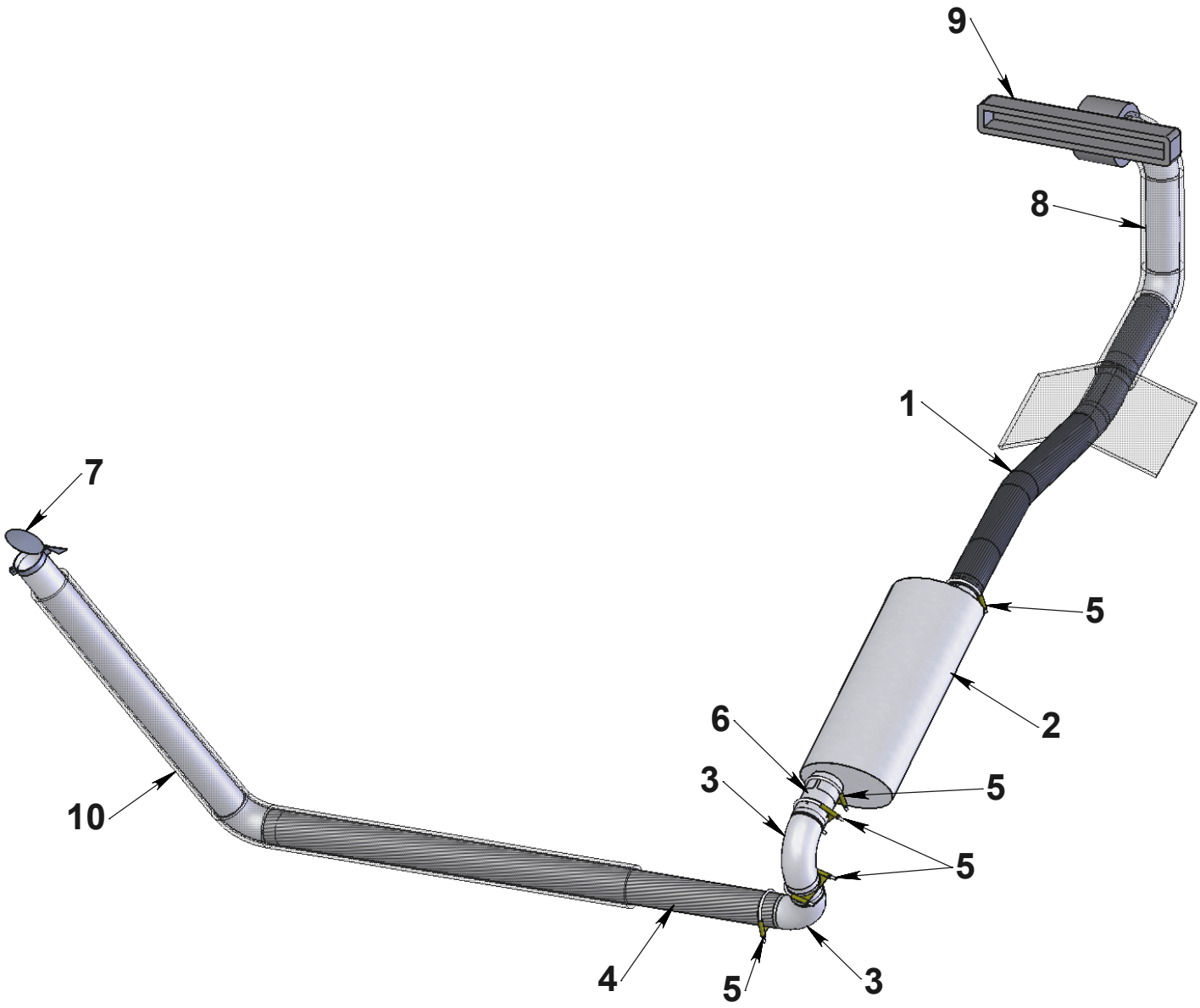
# KIT- C-9 THERMOSTAT BY-PASS
# ( 226122-01 )



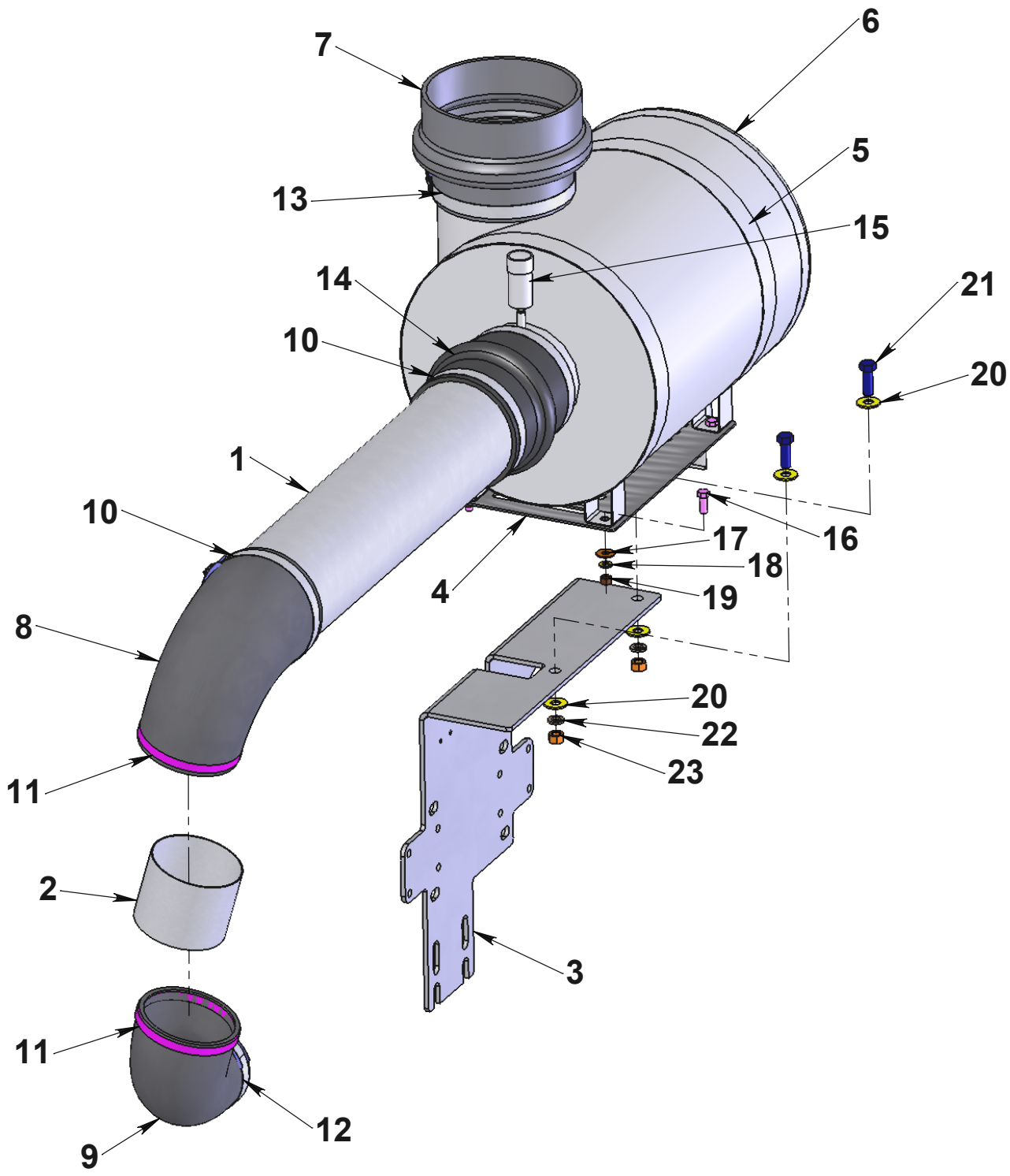

| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 84426-04 | FIT - 6 JIC - 8 SAE 90 DEG. MALE | 1 |
| 2 | 132960-04 | FIT - CONNECTOR SWIVEL F 6 JIC - 4 NPT | 1 |
| 3 | 80349-04 | HOSE BARB - 1/4" NPT X 3/8" BARB | 2 |
| 4 | 120661 | FIT - 1/4" NPT MALE RUN TEE | 1 |
| 5 | 226122-01-1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

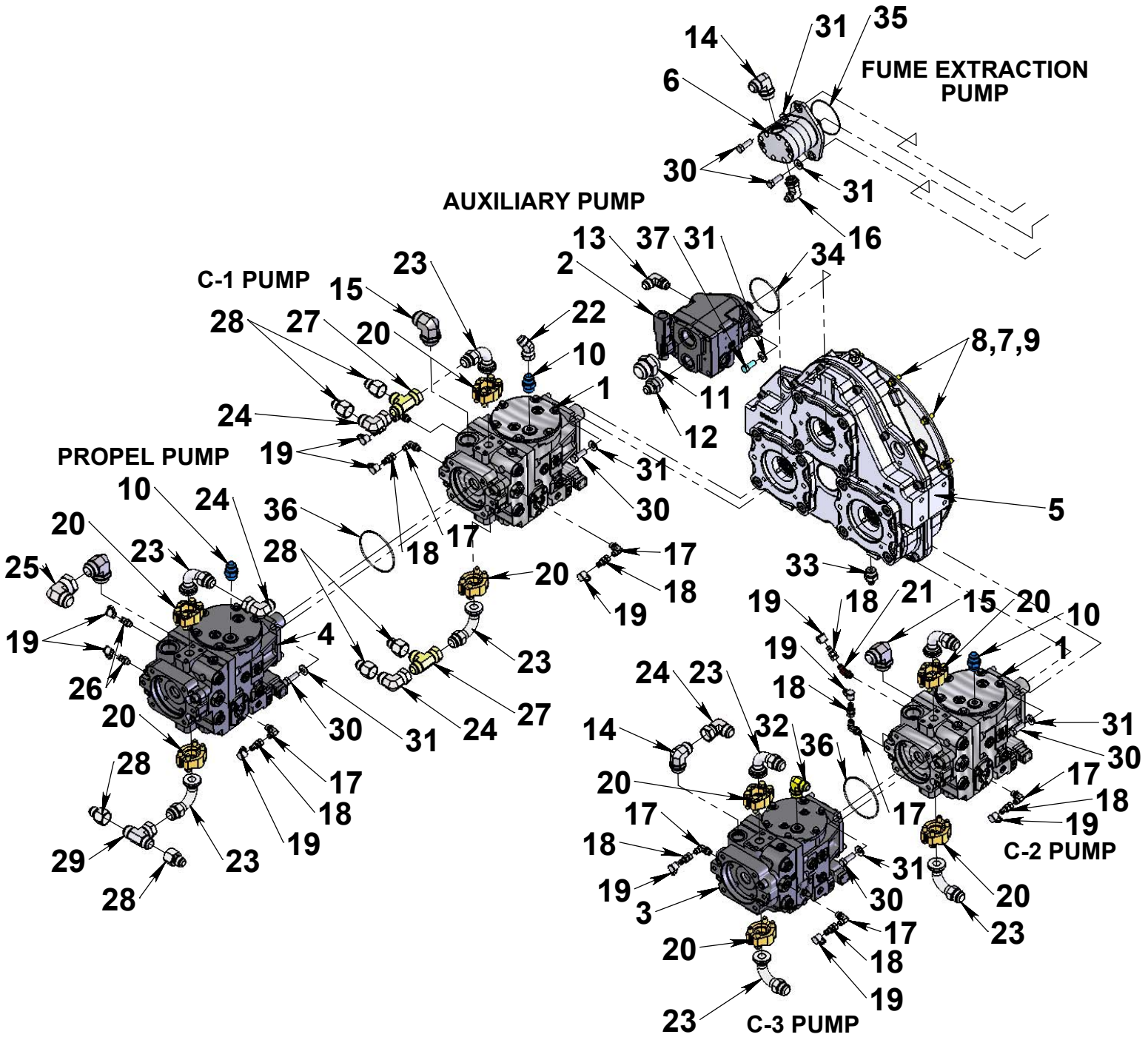
# ASSEMBLY, AIR INTAKE
# (217189-01)



# 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 |

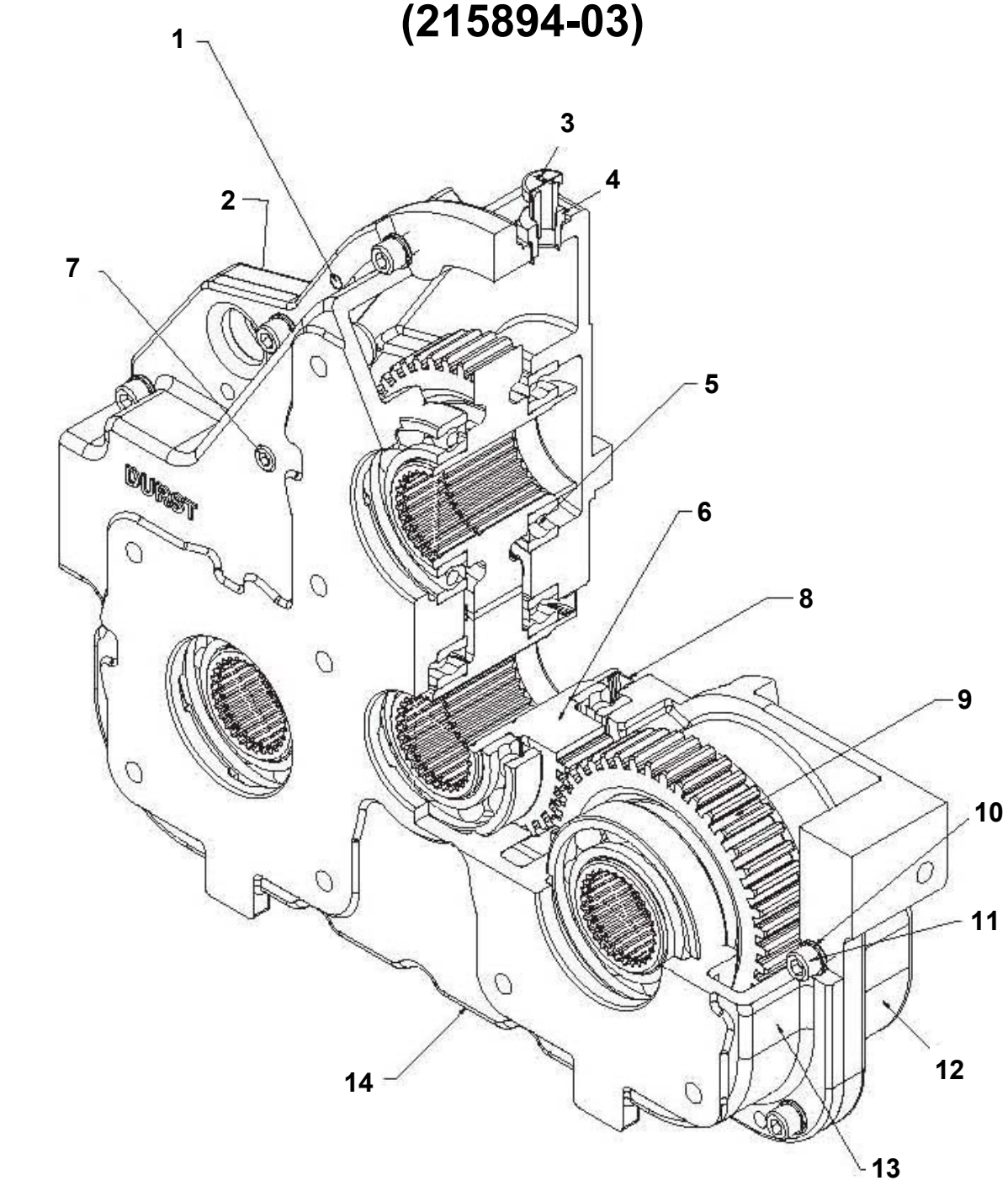
# ASSEMBLY, PUMPS, SB-2500D, TIER III (231745-01)

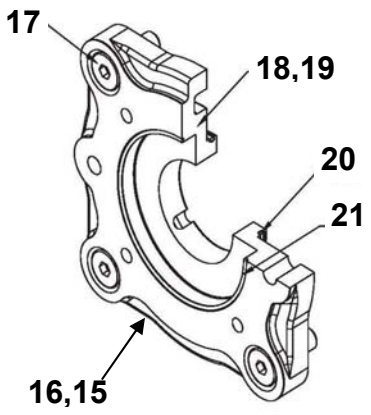


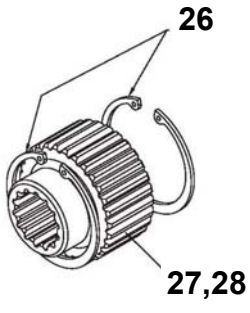
# ASSEMBLY, PUMPS, SB-2500D, TIER III (231745-01)

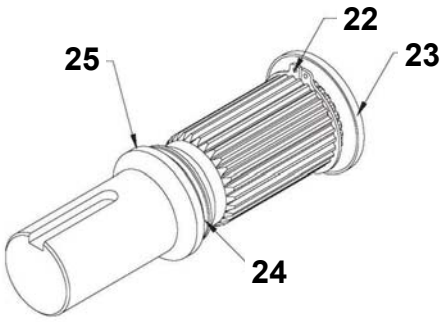
| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 1 | 99814 | PUMP, CLOSED LOOP, SAUER-DANFOSS SERIES 90/100CC, CCW | 2 |
| 2 | 211743-04 | PUMP *AUX 45CC PRESSURE COMPENSATED | 1 |
| 3 | 29J94 | PUMP, HYD, STAT. S90 75cc | 1 |
| 4 | 219675-04 | PUMP * HYD STAT SERIES 90-100CC | 1 |
| 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)



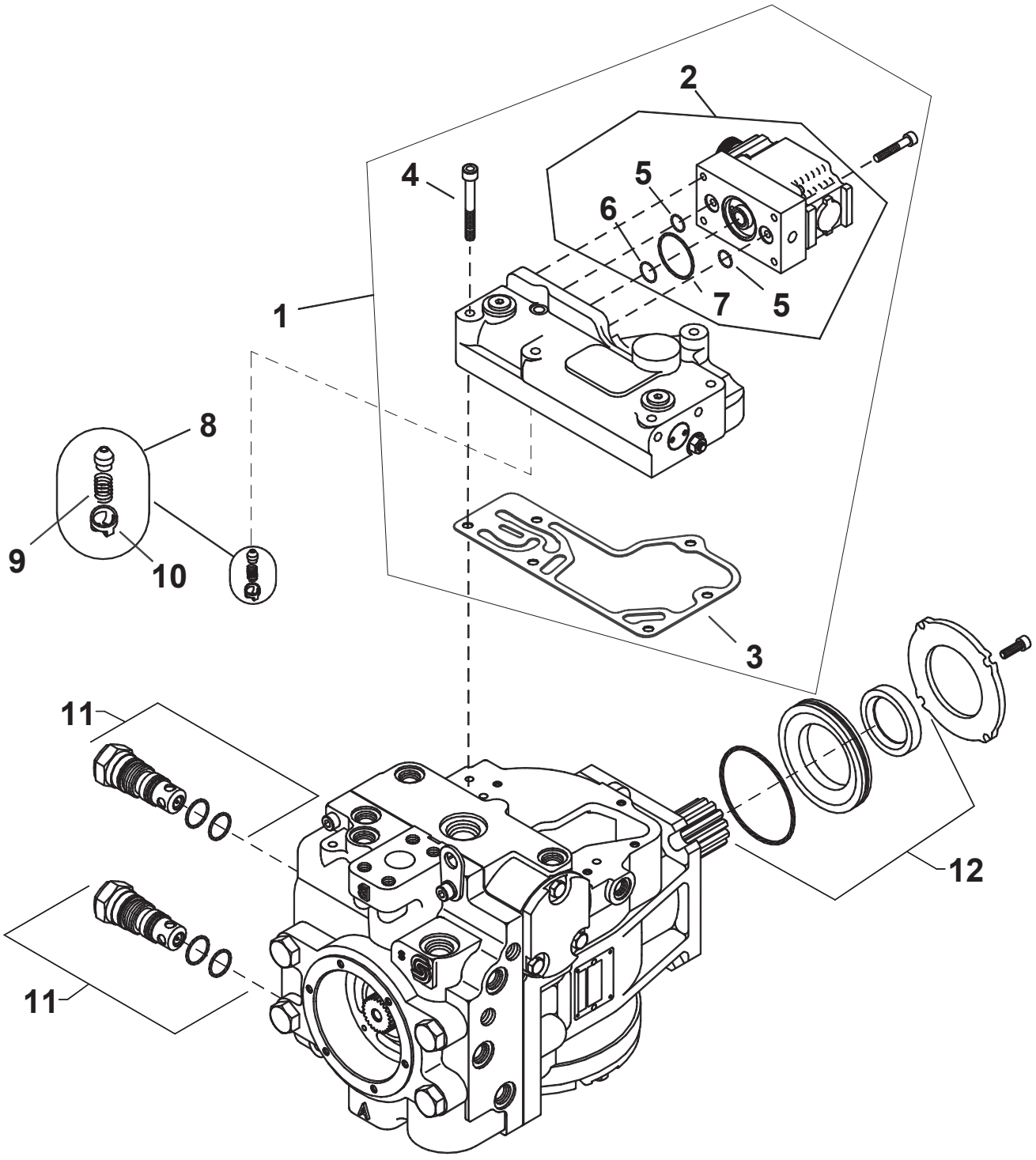



# DURST PUMP DRIVE - SB-2500D
# ( 215894-03 )

| 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 )

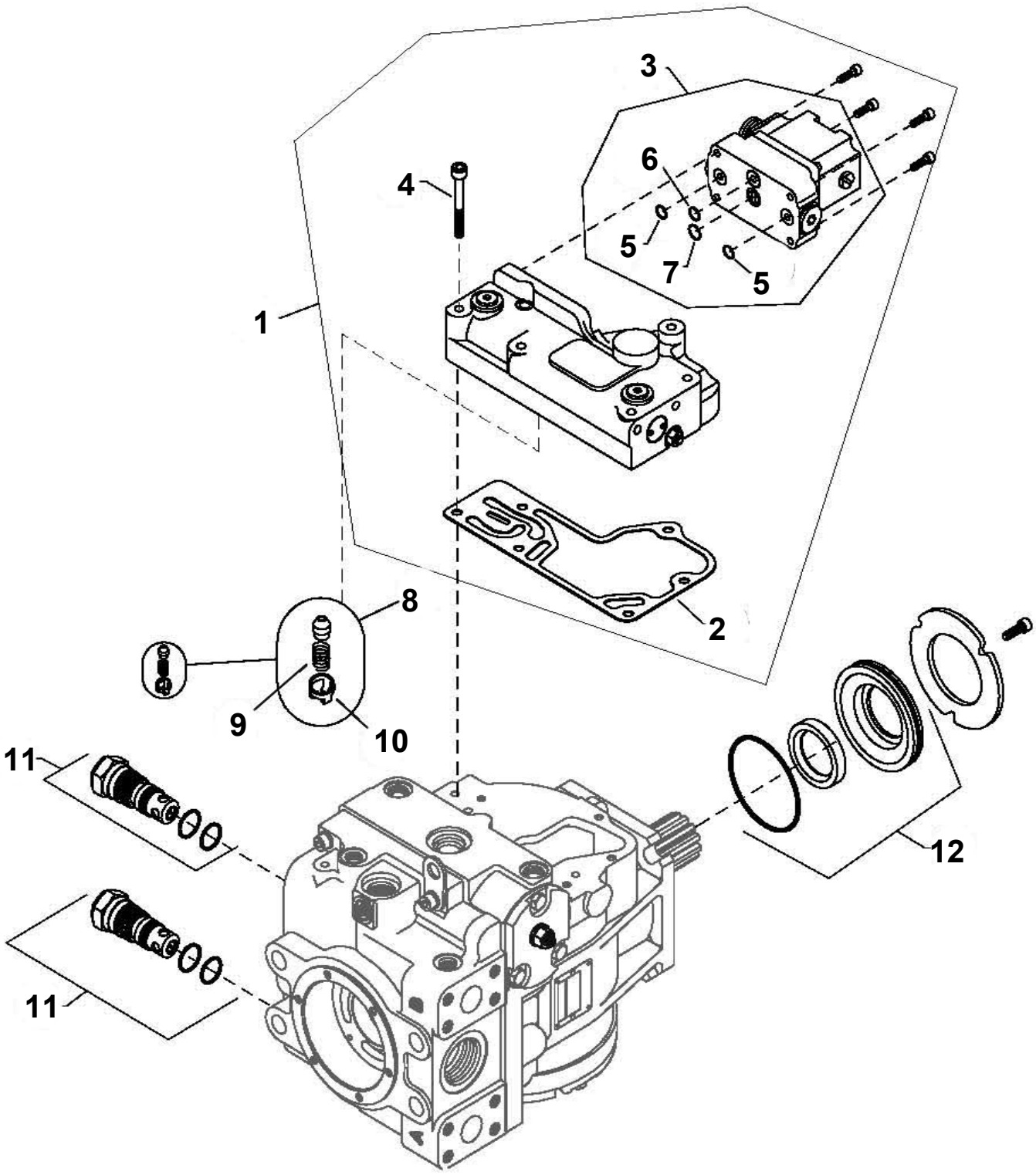


# C-1 & C-2 PUMP
# (99814)

| 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 )

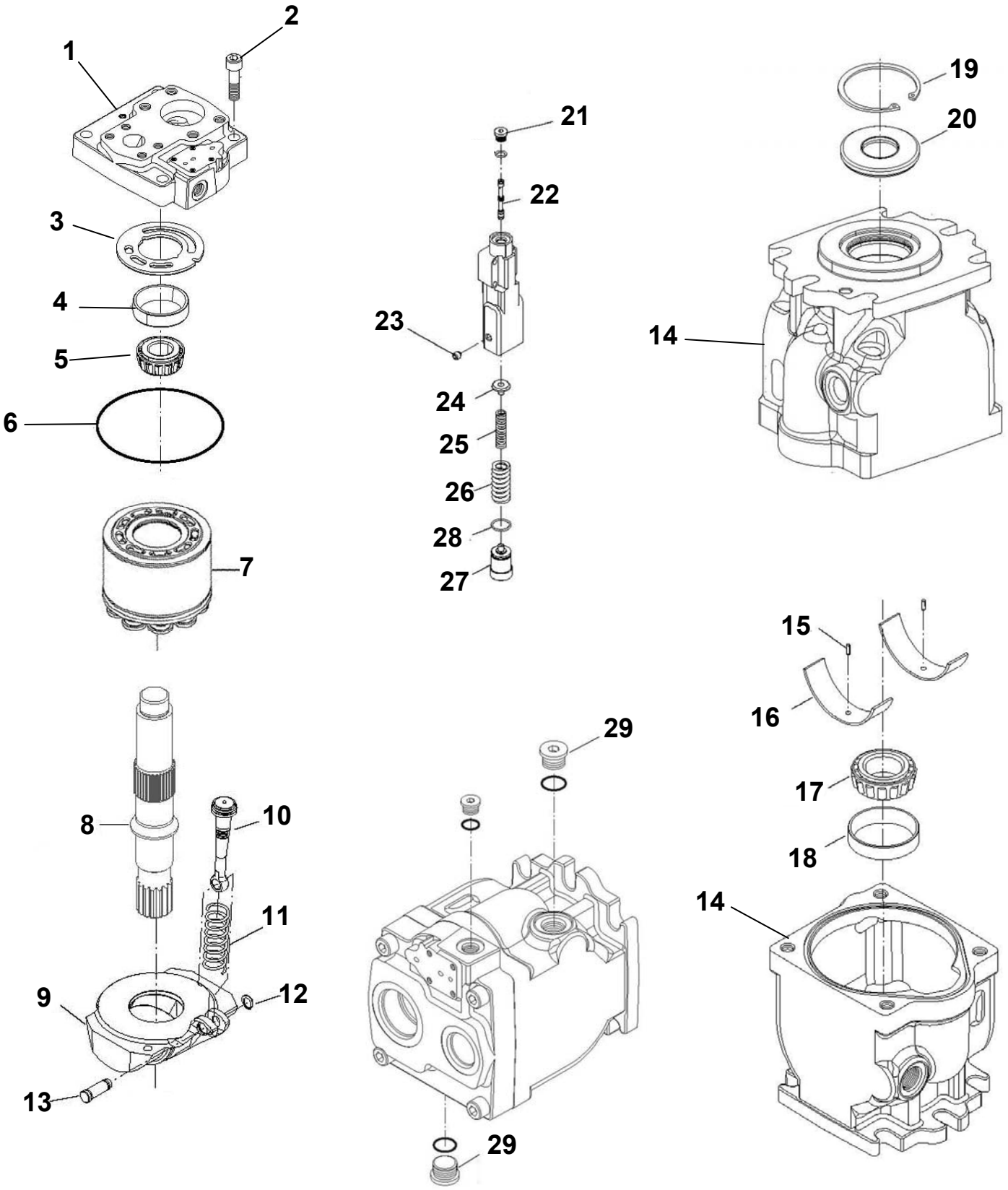


# C-3 PUMP
# (29J94)

| 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 )

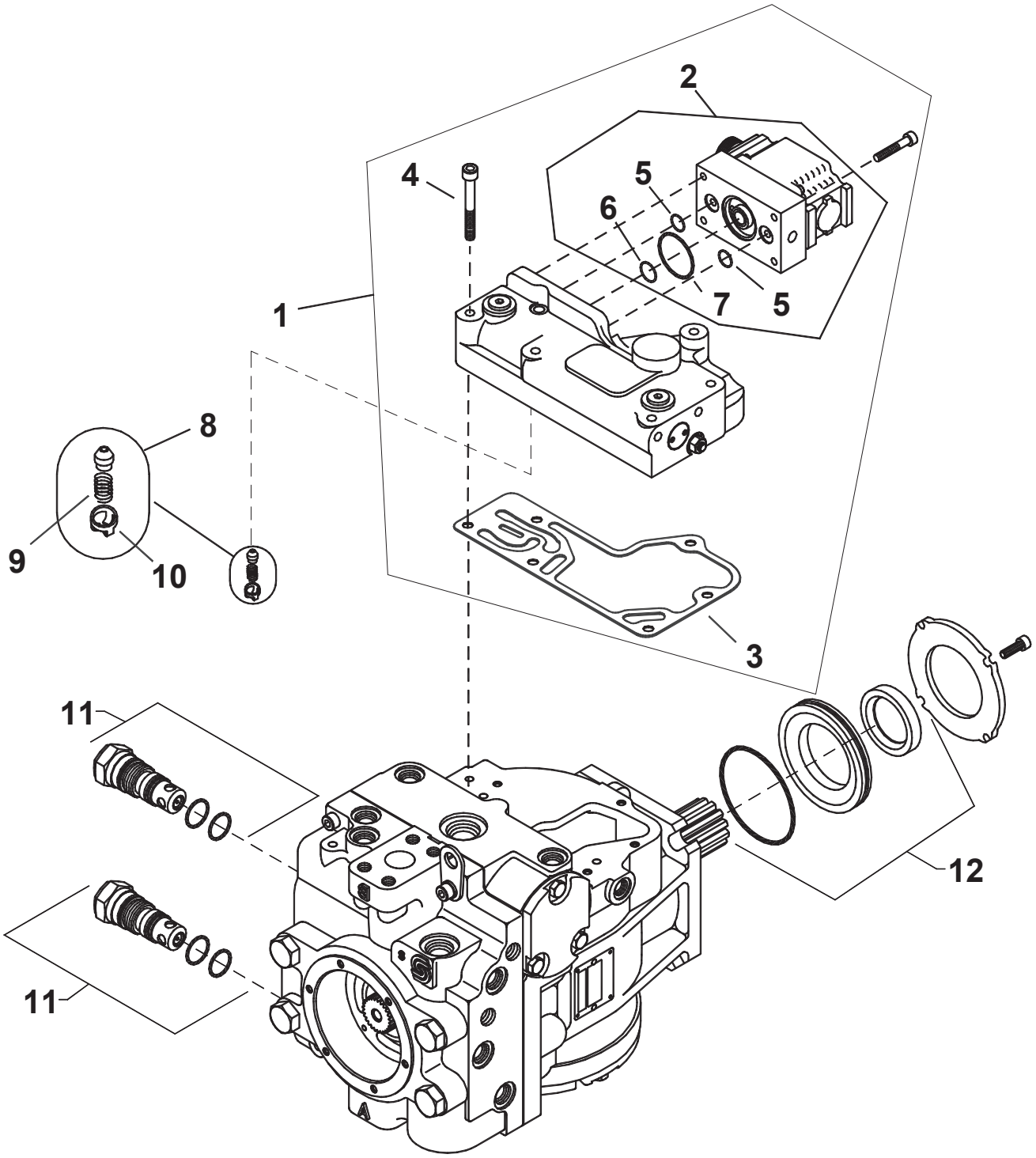


# AUXILIARY PUMP
# (211743-04)

| 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 )



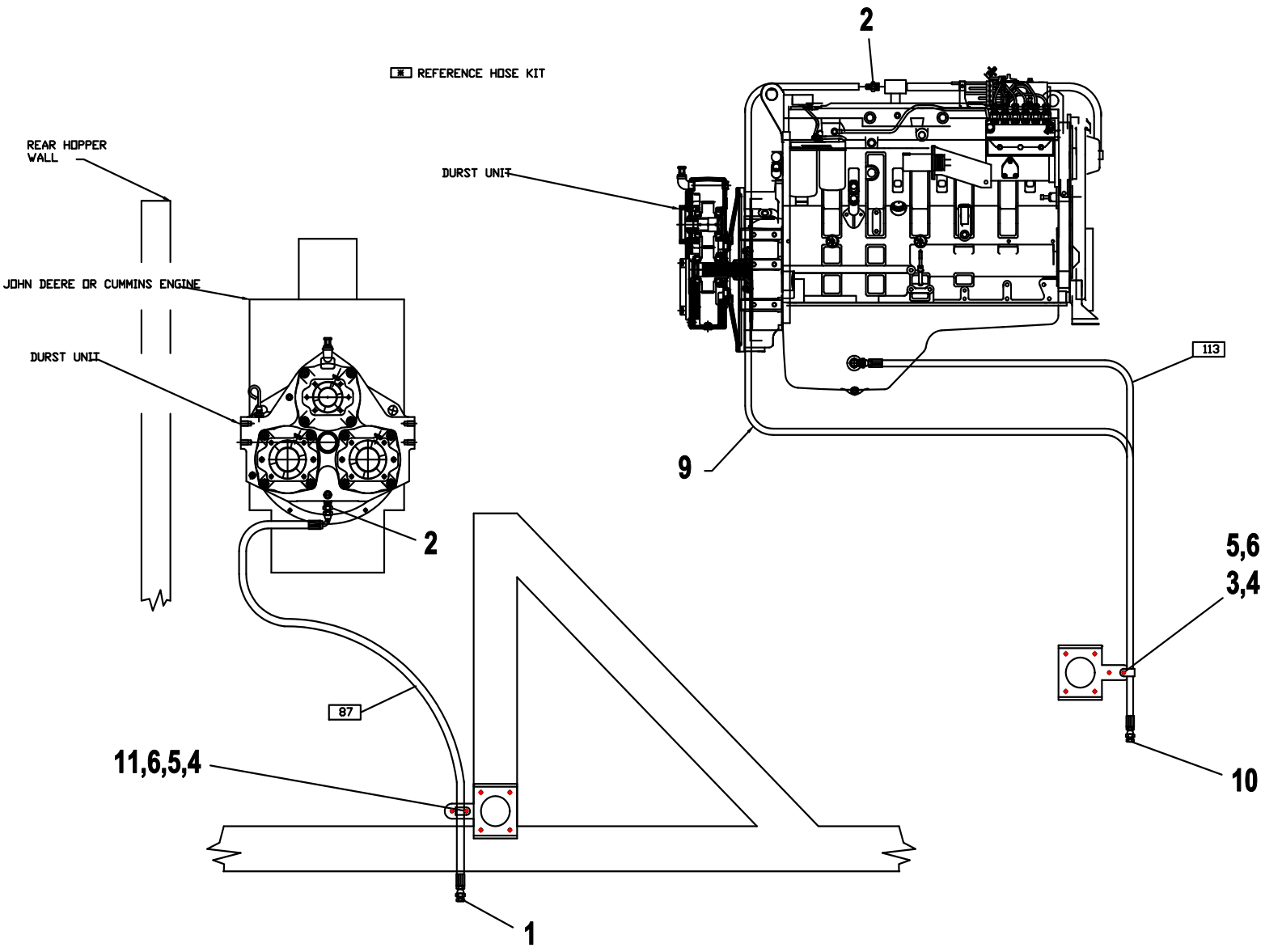
# PROPEL PUMP
# (219675-04)

| 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

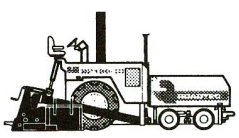
1) TO INSTALL DRAIN HOSE, REMOVE SQUARE PLUG FROM THE BOTTOM OF THE DURST UNIT. ( A 6 QT. CONTAINER NEEDS TO BE PROVIDED TO CATCH THE OIL HELD IN THE DURST UNIT).
2) AFTER THE CASING IS DRAINED CLEAN THE ORIFICE OF ANY DEBRIS. INSTALL ITEM 2 IN THE THREADED OUTLET. ( OPT. YOU MAY APPLY SOME FORM OF APPROVED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

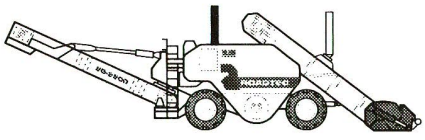
| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 85393-04 | 8 JIC PLUG | 1 |
| **2** | 83468-04 | CONNECTOR - 8 JIC - 1/2" NPT MALE | 2 |
| **3** | 83924 | HEX BOLT - 3/8-16 X 1 1/2" | 1 |
| **4** | 83056 | LOCK WASHER - 3/8" SPRING STEEL | 2 |
| **5** | 83055 | HEX NUT - 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 |

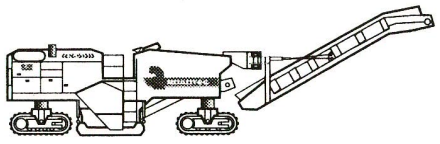
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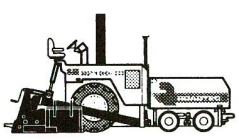
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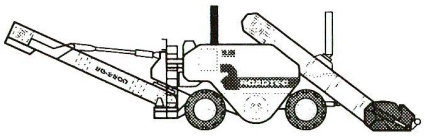
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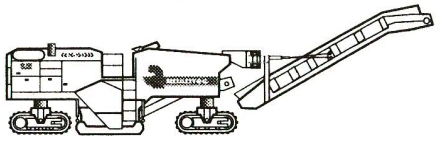
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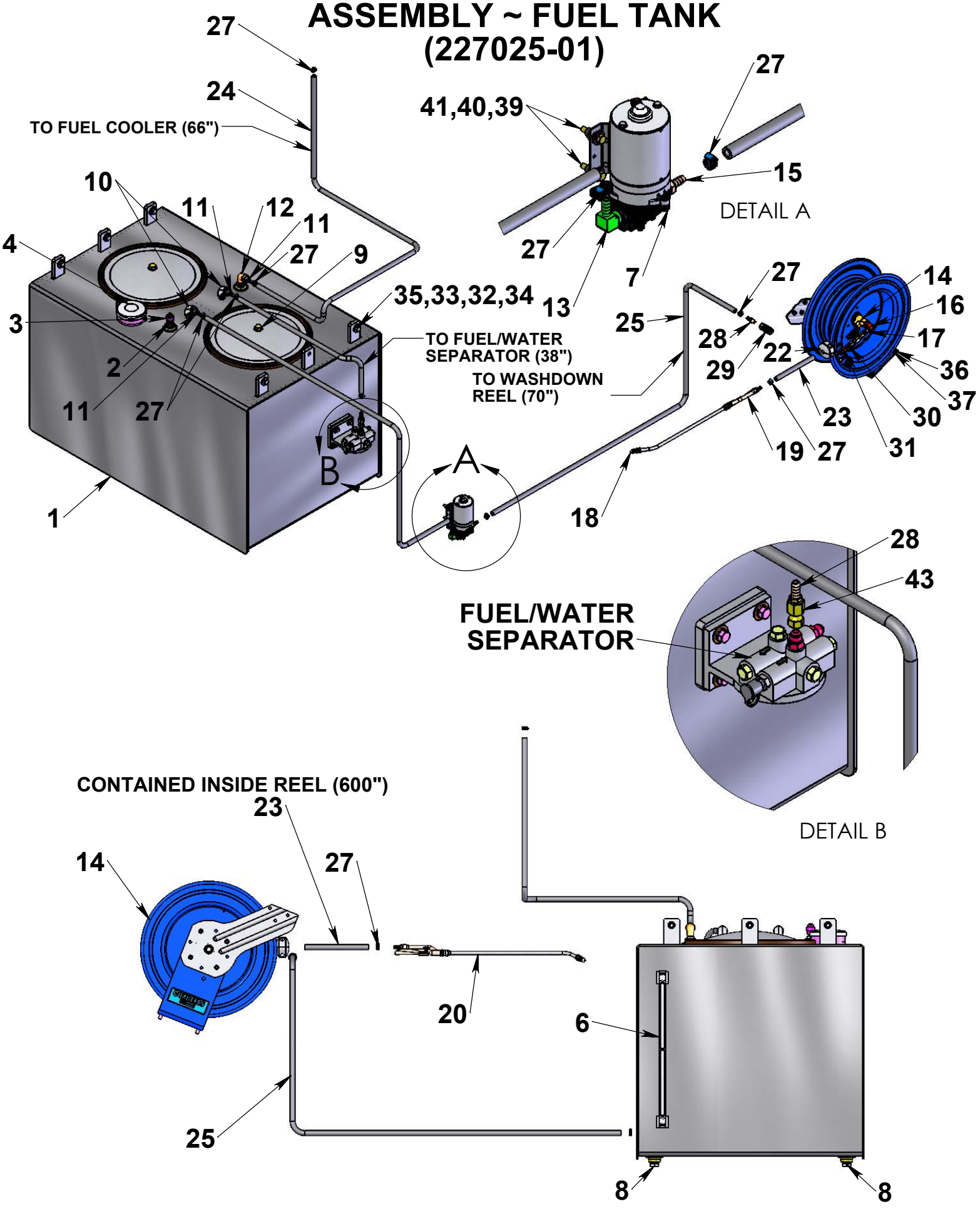
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# SECTION 2 : FRAME ASSEMBLIES


| 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)





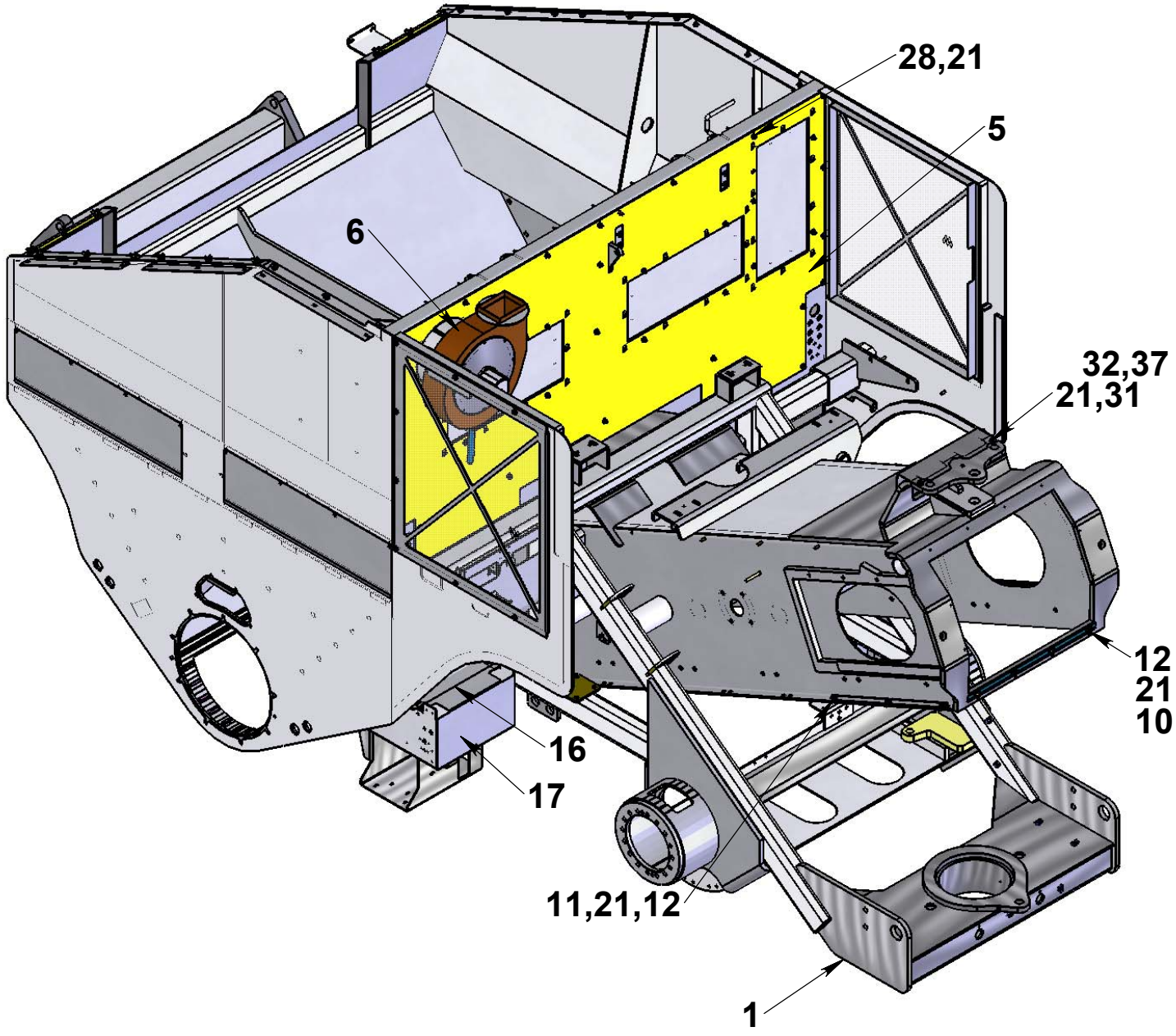

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# ASSEMBLY ~ FUEL TANK
# (227025-01)

| 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 |

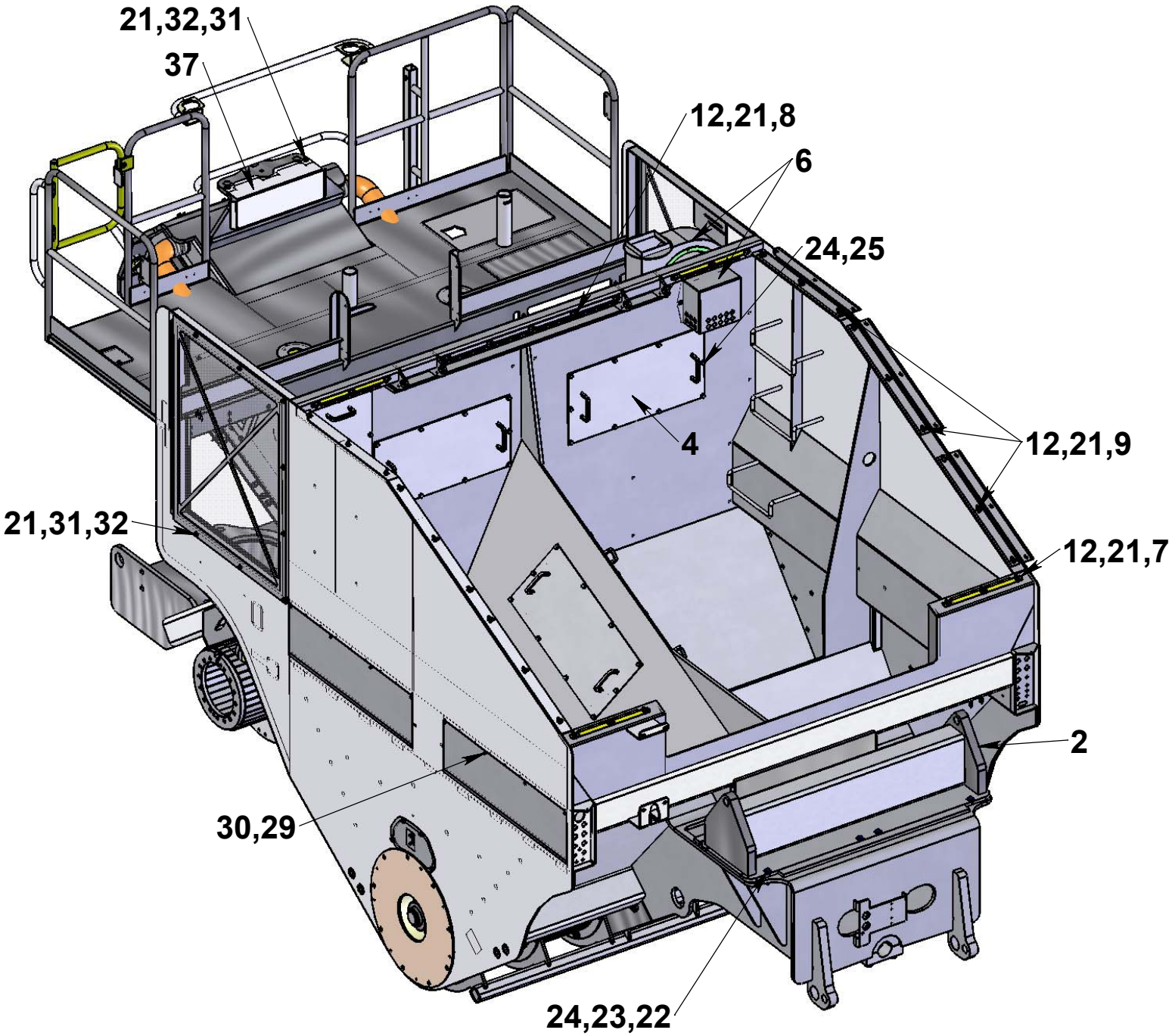
# ASSEMBLY - MAINFRAME SB-2500D (233561-01)

NEXT PAGE



PREVIOUS PAGE

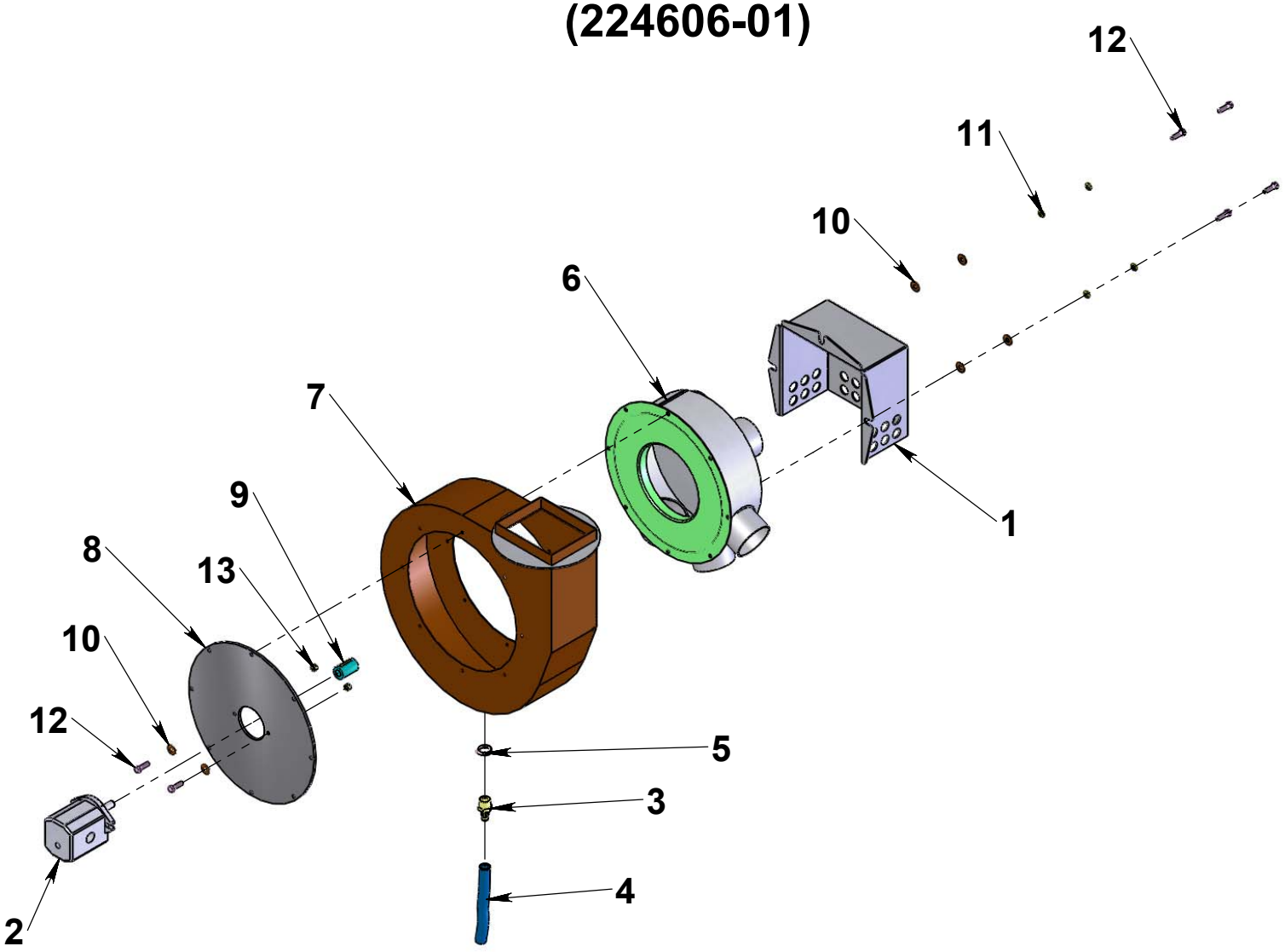
# ASSEMBLY - MAINFRAME SB-2500D (233561-01)



# 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 |

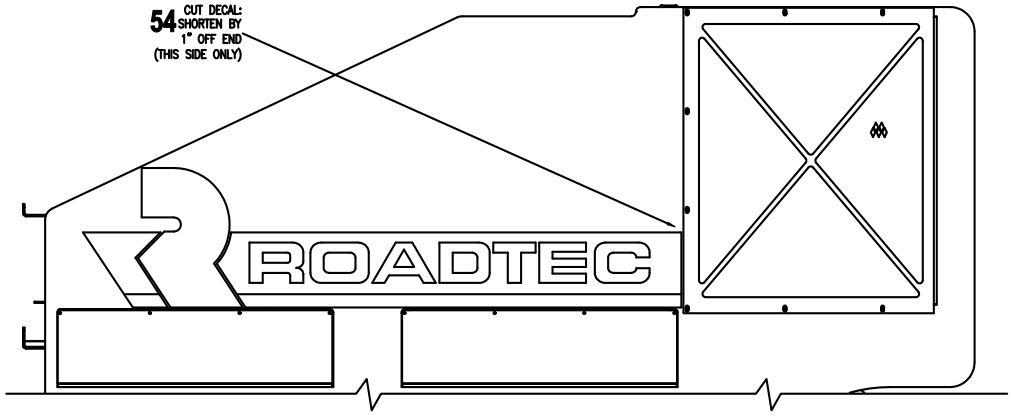
# ASSEMBLY - FXS
# (224606-01)



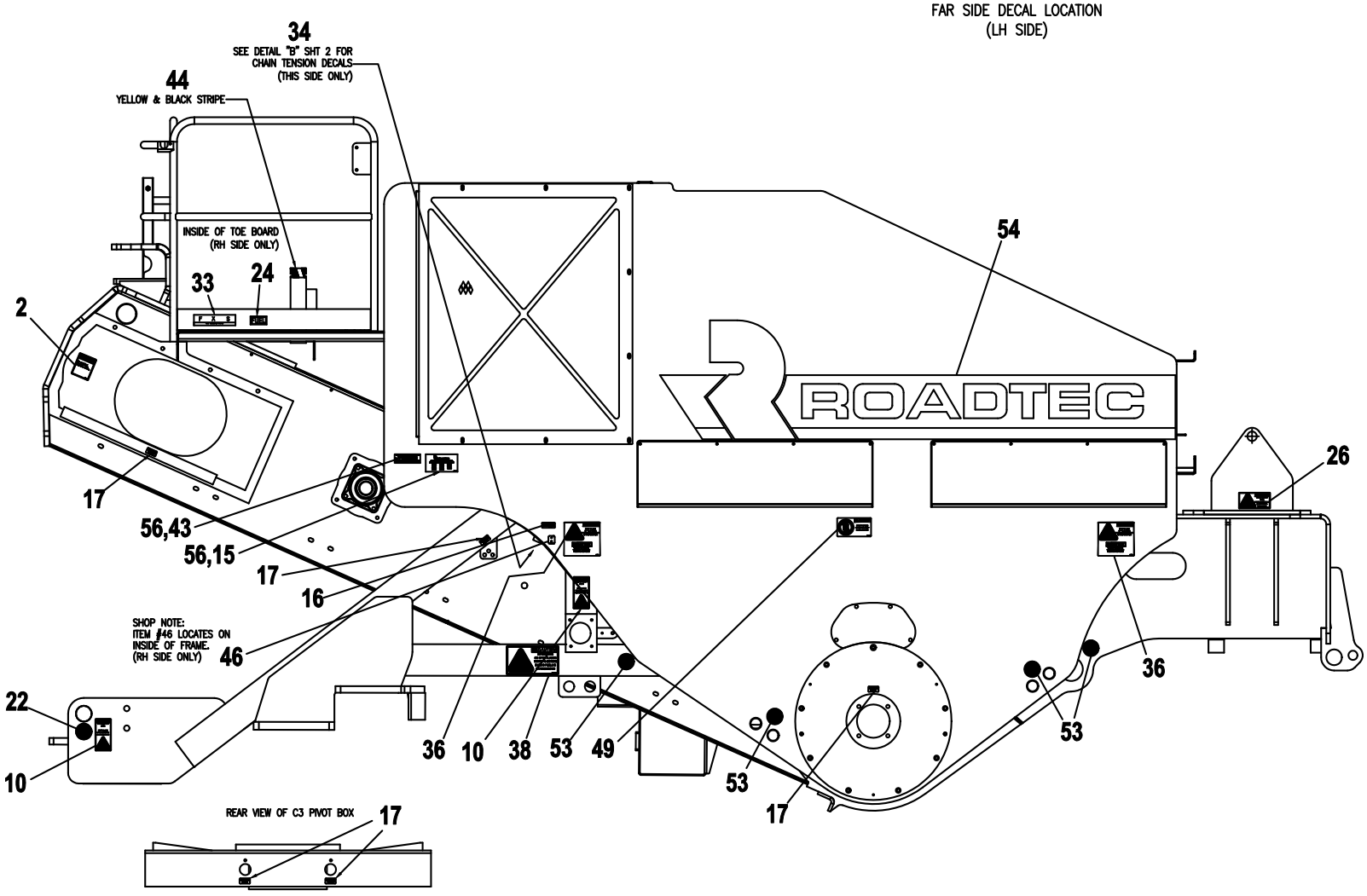

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 146685-02 | WELDMENT-C2 SUCTION COVER-1500B | 1 |
| 2 | 134229-04 | MOTOR * HYDRAULIC 1.03 CID (SUNDST) | 1 |
| 3 | 136925 | BARB * 3/4 NPT X 3/4 HOSE | 1 |
| 4 | 222724-01-46 | HOSE * 3/4" WATER (BLACK) (NOT TO SCALE) 96" | 1 |
| 5 | 80105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

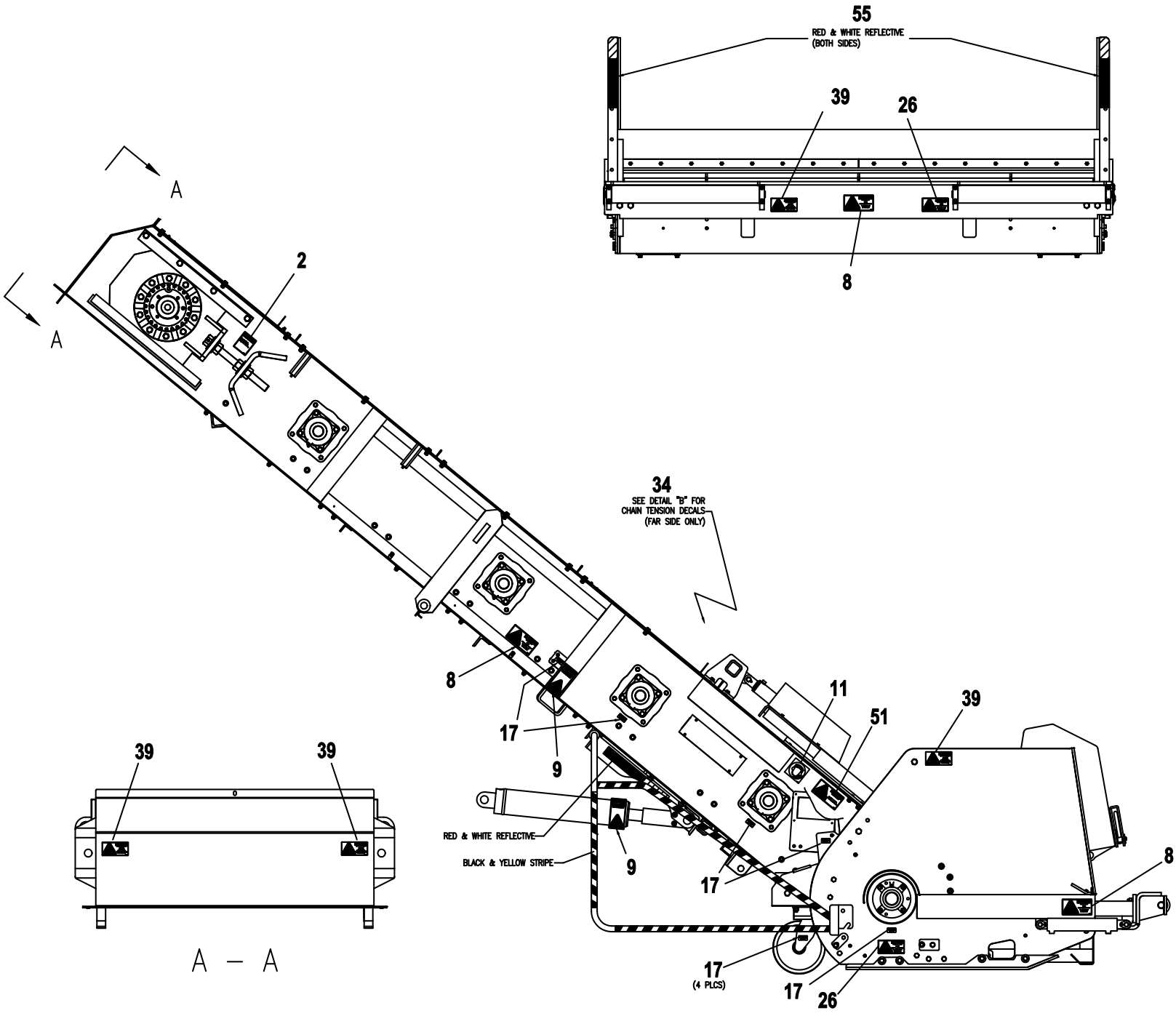



FAR SIDE DECAL LOCATION
(LH SIDE)



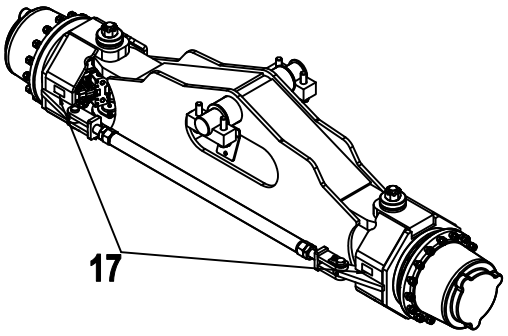
# SB-2500D DECAL KIT
# ( 230722-01 )



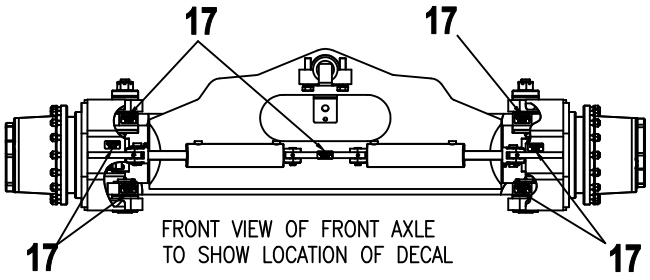


# SB-2500D DECAL KIT
# ( 230722-01 )

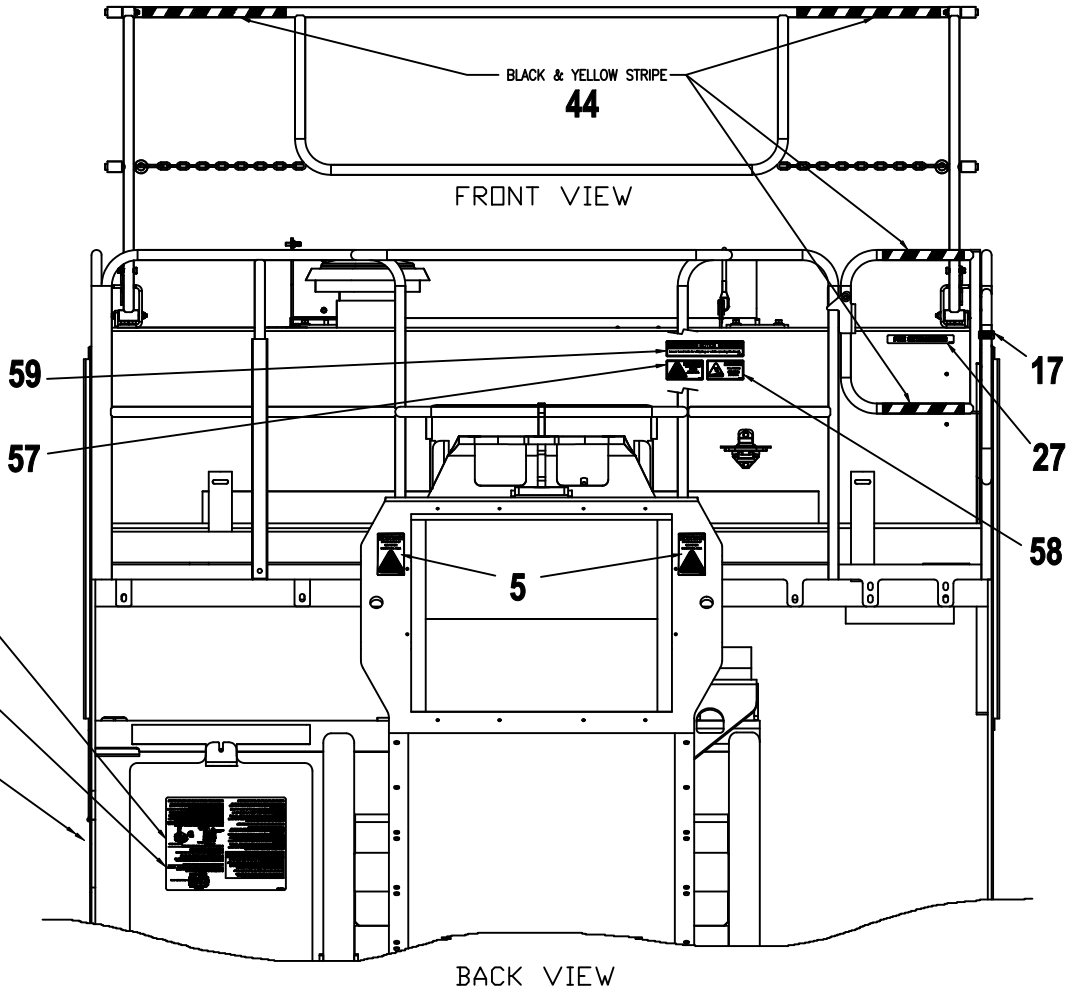





ISO VIEW BACK OF FRONT AXLE




FRONT VIEW OF FRONT AXLE
TO SHOW LOCATION OF DECAL




FRONT VIEW

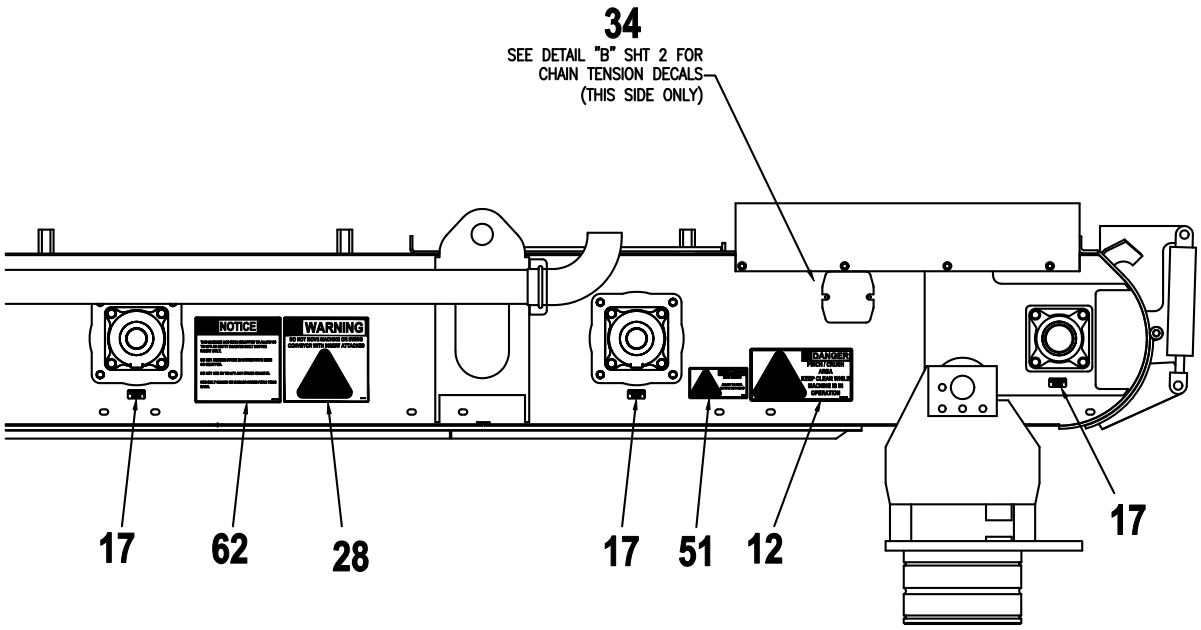
BACK VIEW

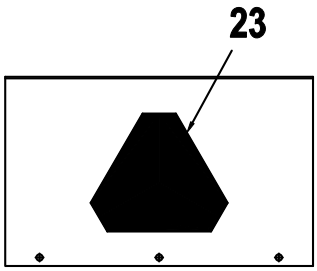
SHOP NOTE: HAND PUMP INSTRUCTION DECAL ATTACHES ON THE INSIDE SURFACE OF THE VALVE COVER.

**42**
UNDER VALVE COVER
LOCATE DECALS
(NOT SHOWN)

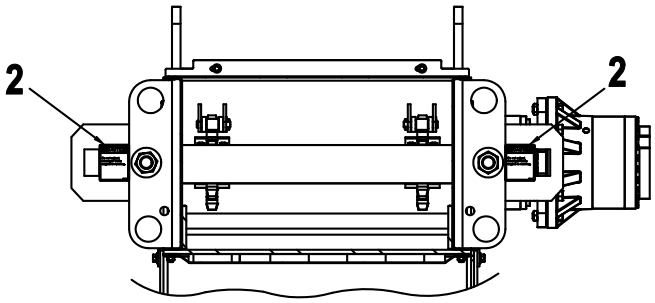
# SB-2500D DECAL KIT
# ( 230722-01 )



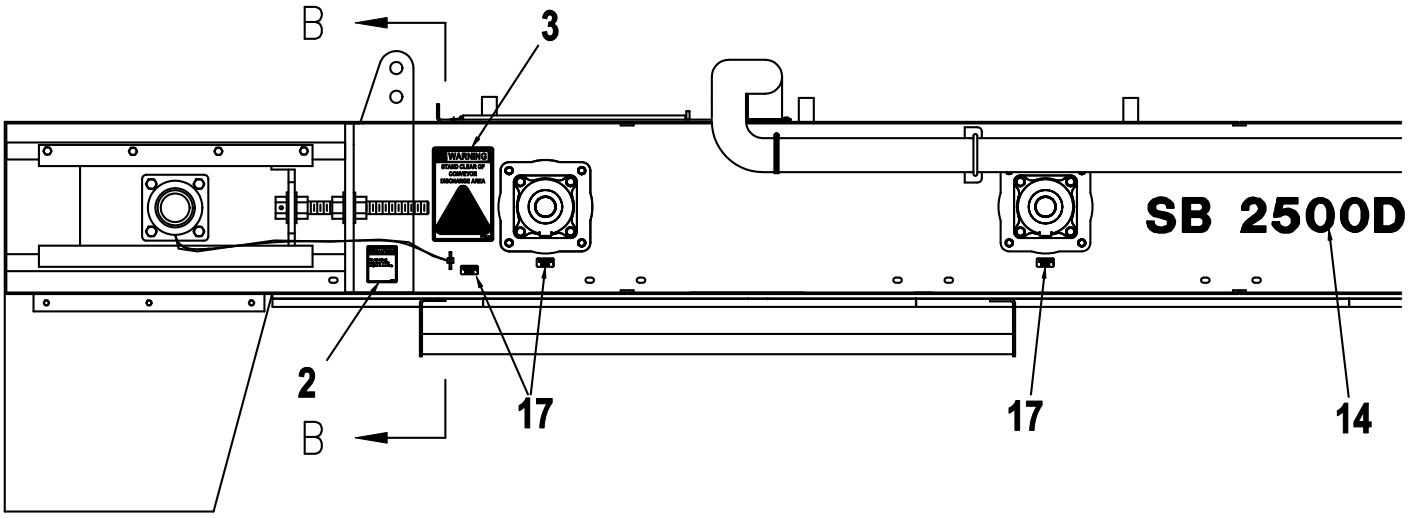



END VIEW




B – B

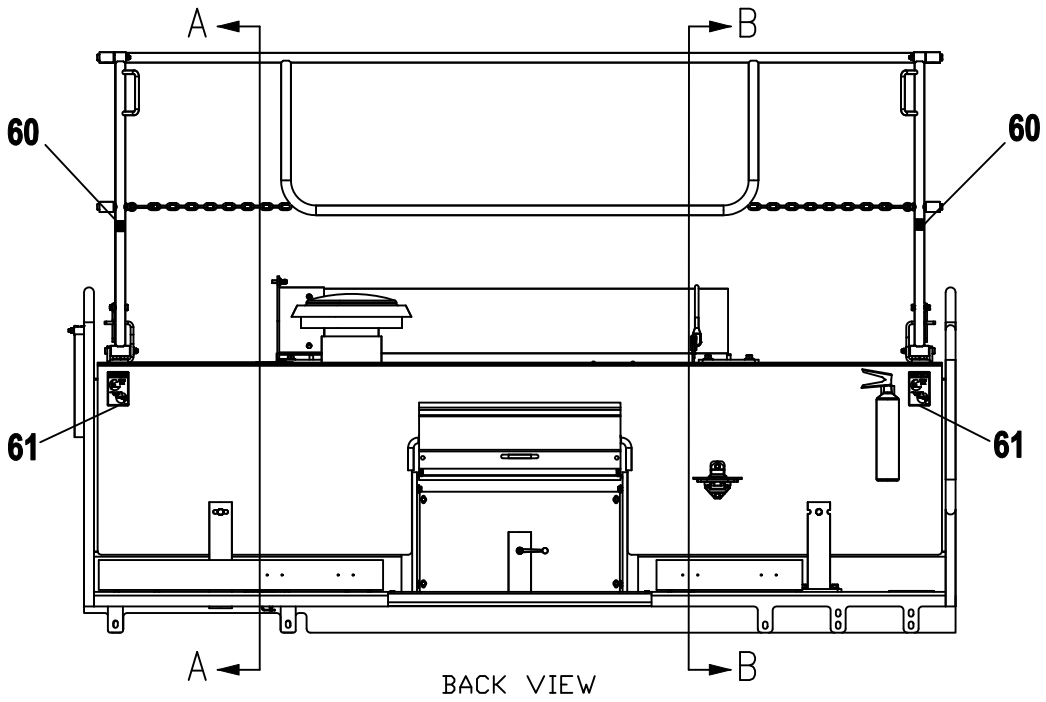




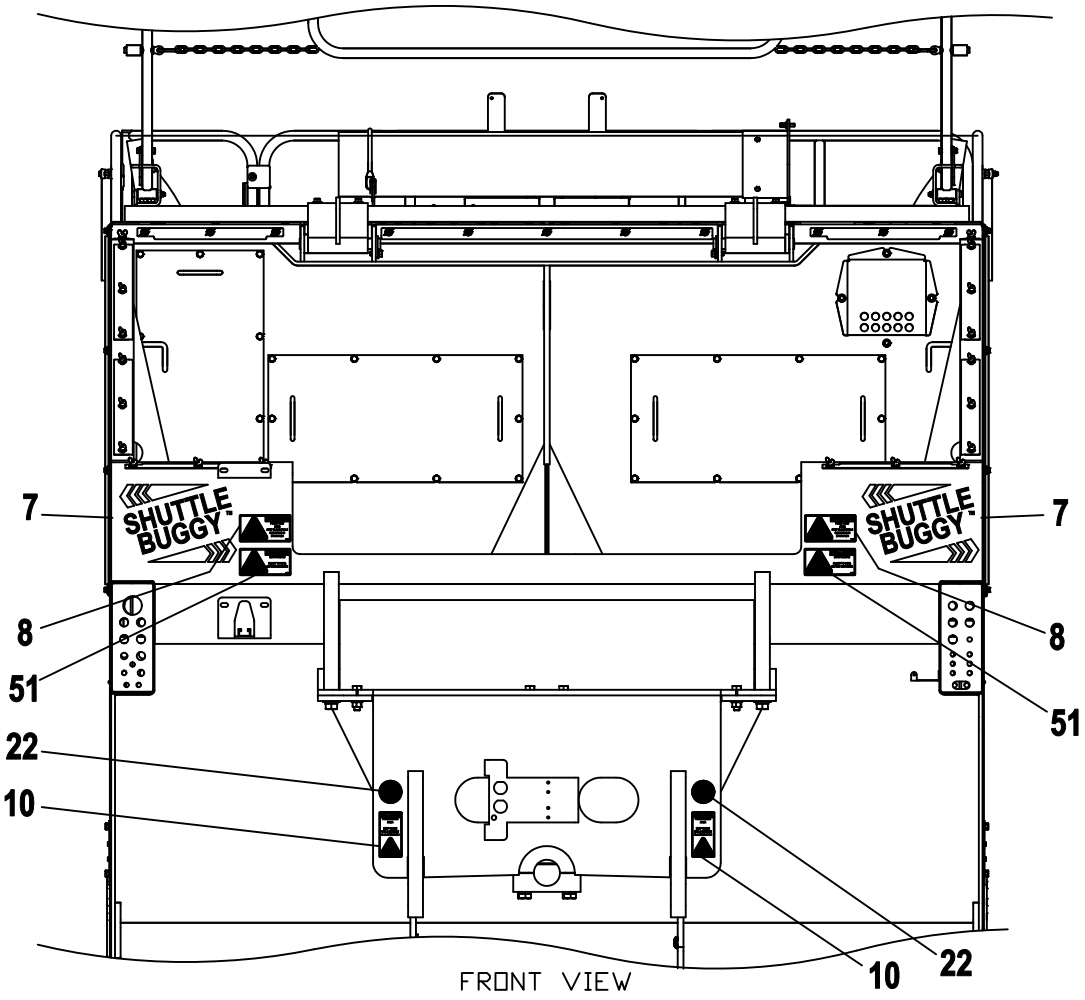

ROADTEC
an Astec Industries Company

# SB-2500D DECAL KIT
# ( 230722-01 )





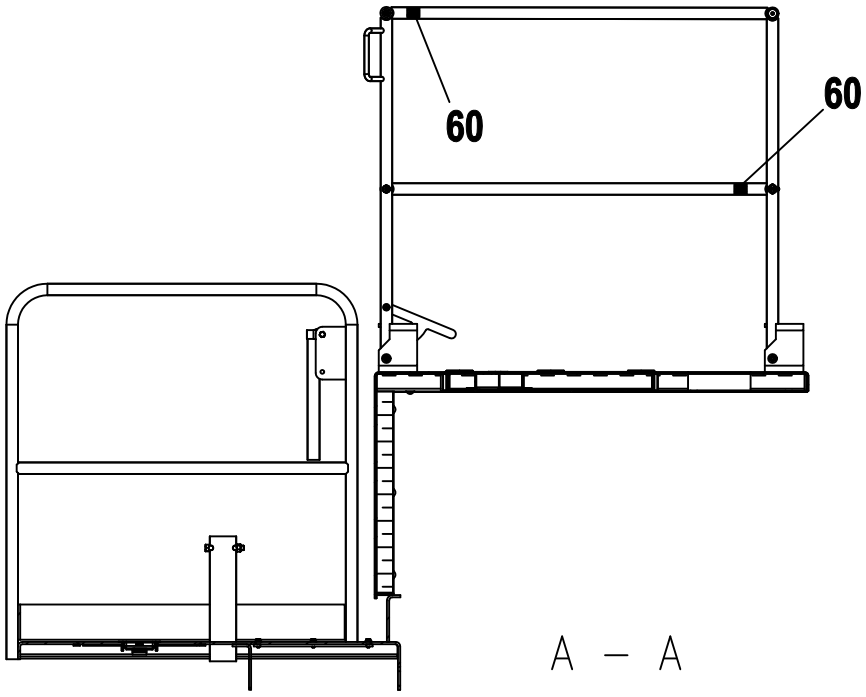

BACK VIEW



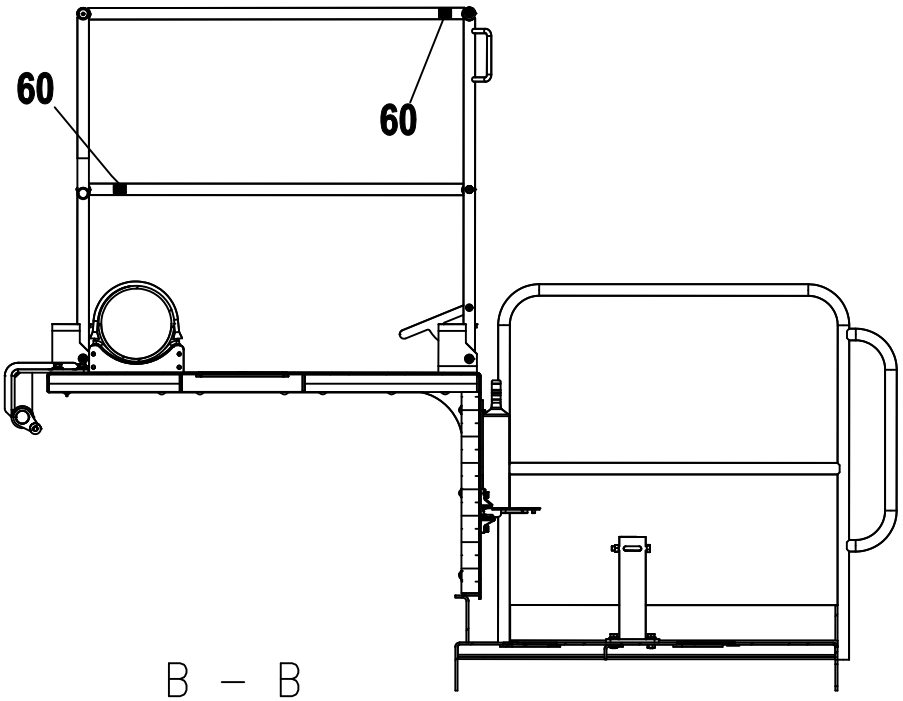

FRONT VIEW

# SB-2500D DECAL KIT
# ( 230722-01 )





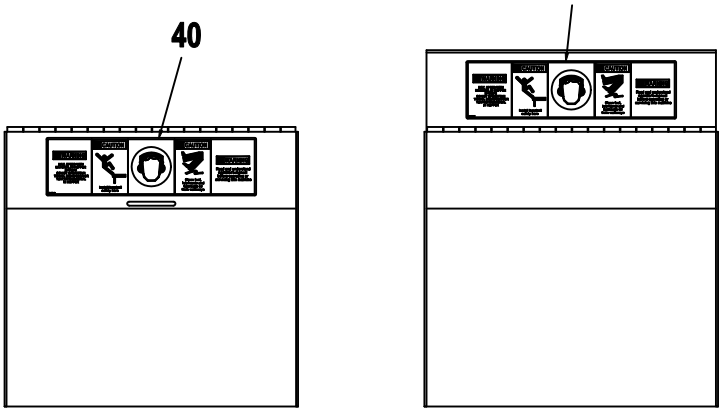

A – A




B – B

# SB-2500D DECAL KIT
# ( 230722-01 )



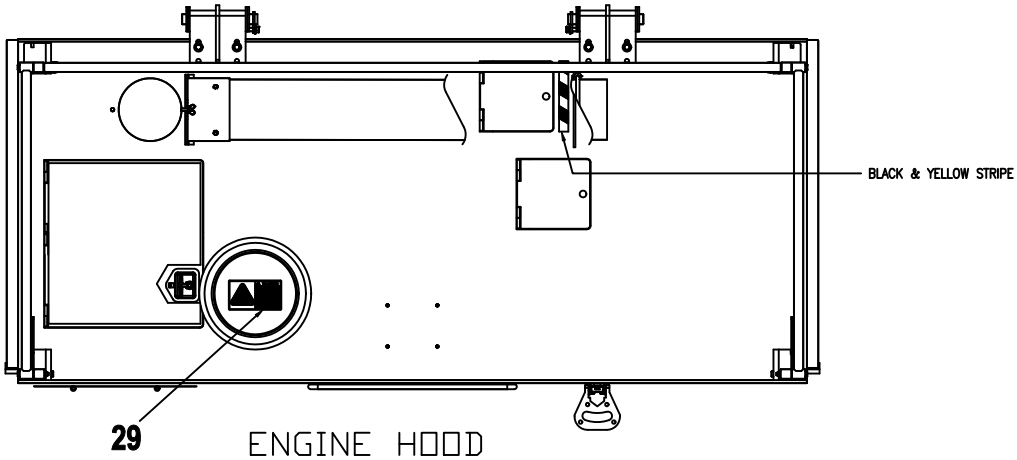



OUTSIDE OF LID

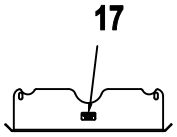
INSIDE OF LID

CENTER CONSOLE

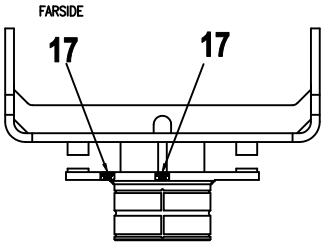
NTS



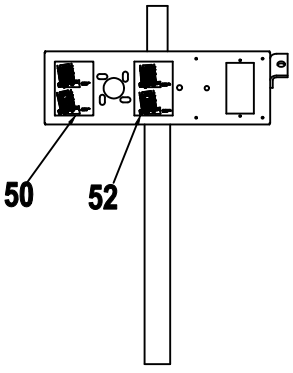

ENGINE HOOD



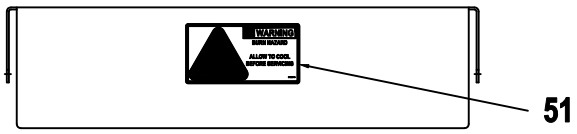

DETAIL C-3 PIVOT GUARD




REAR VIEW OF
C3 CONVEYOR PIVOT



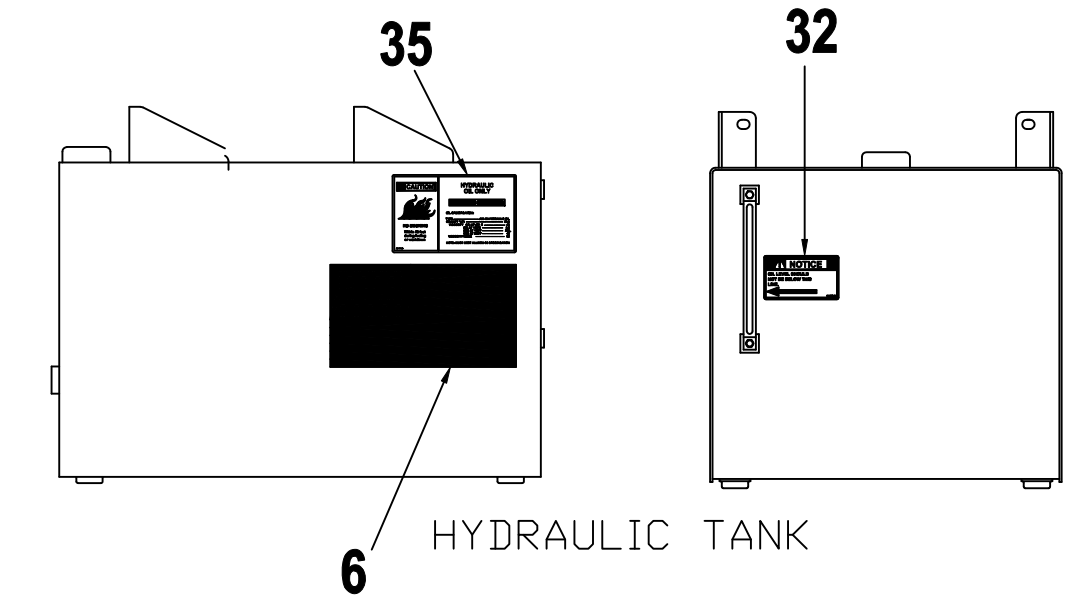

OPERATOR'S CONSOLE

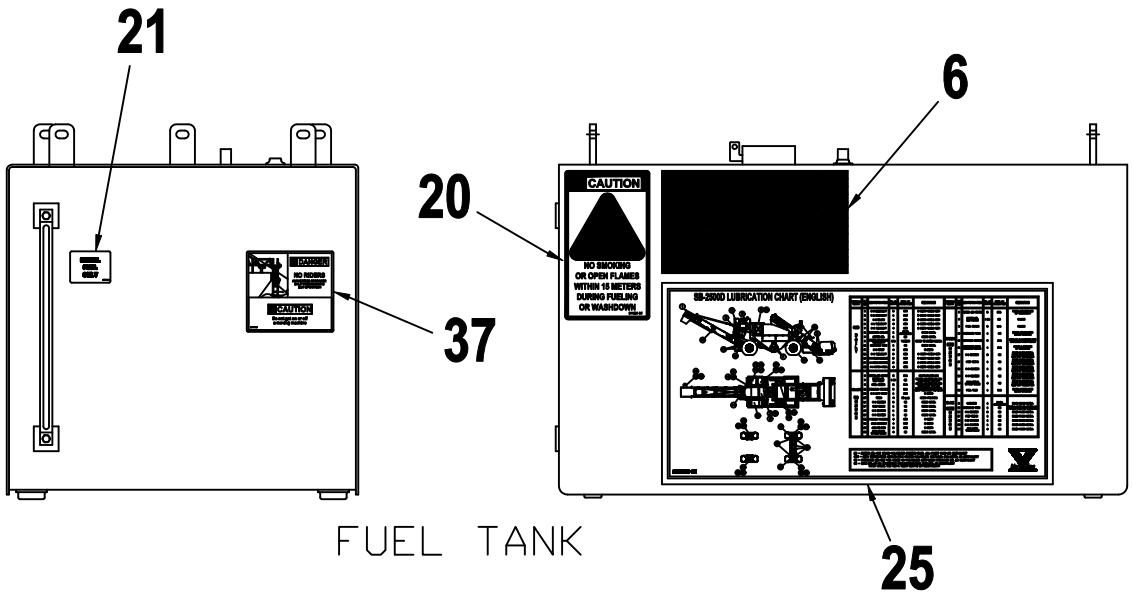


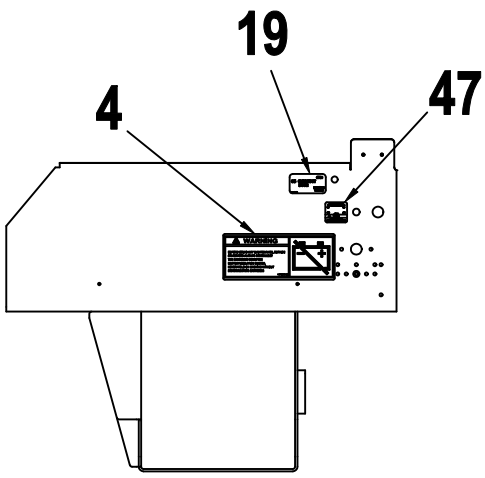

INSIDE ENGINE COMPARTMENT
ON CENTER CONSOLE COVER

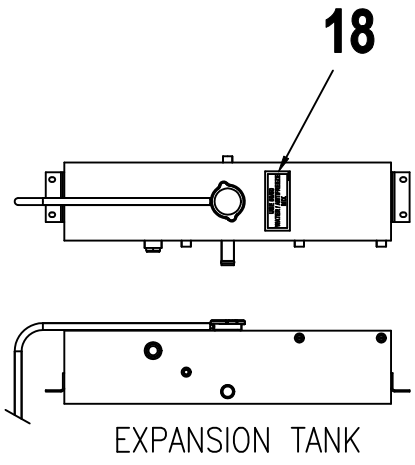
# SB-2500D DECAL KIT
# ( 230722-01 )



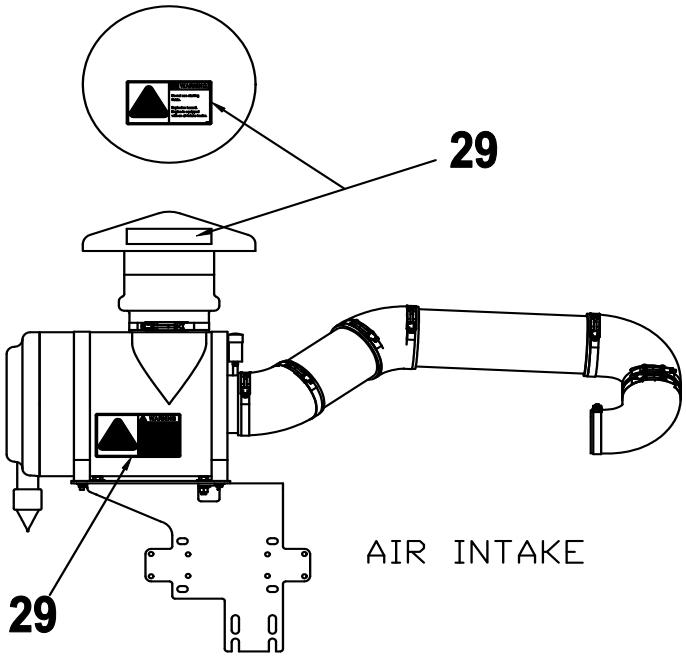


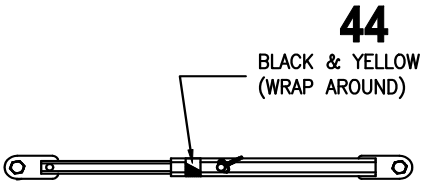



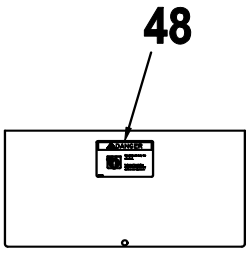



# SB-2500D DECAL KIT
# ( 230722-01 )



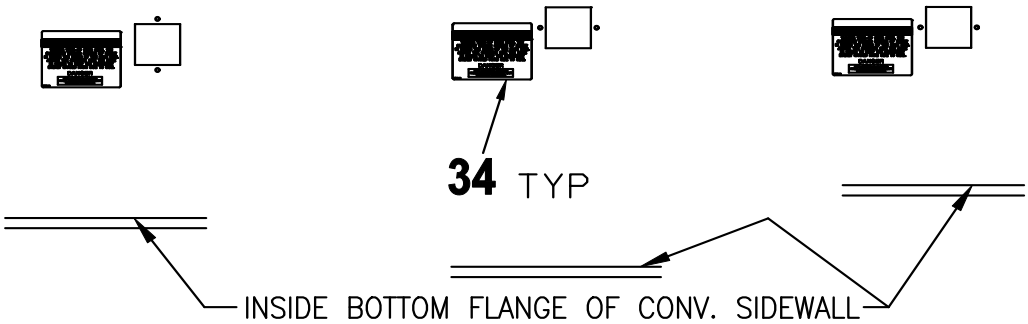

HOOD PROP




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)

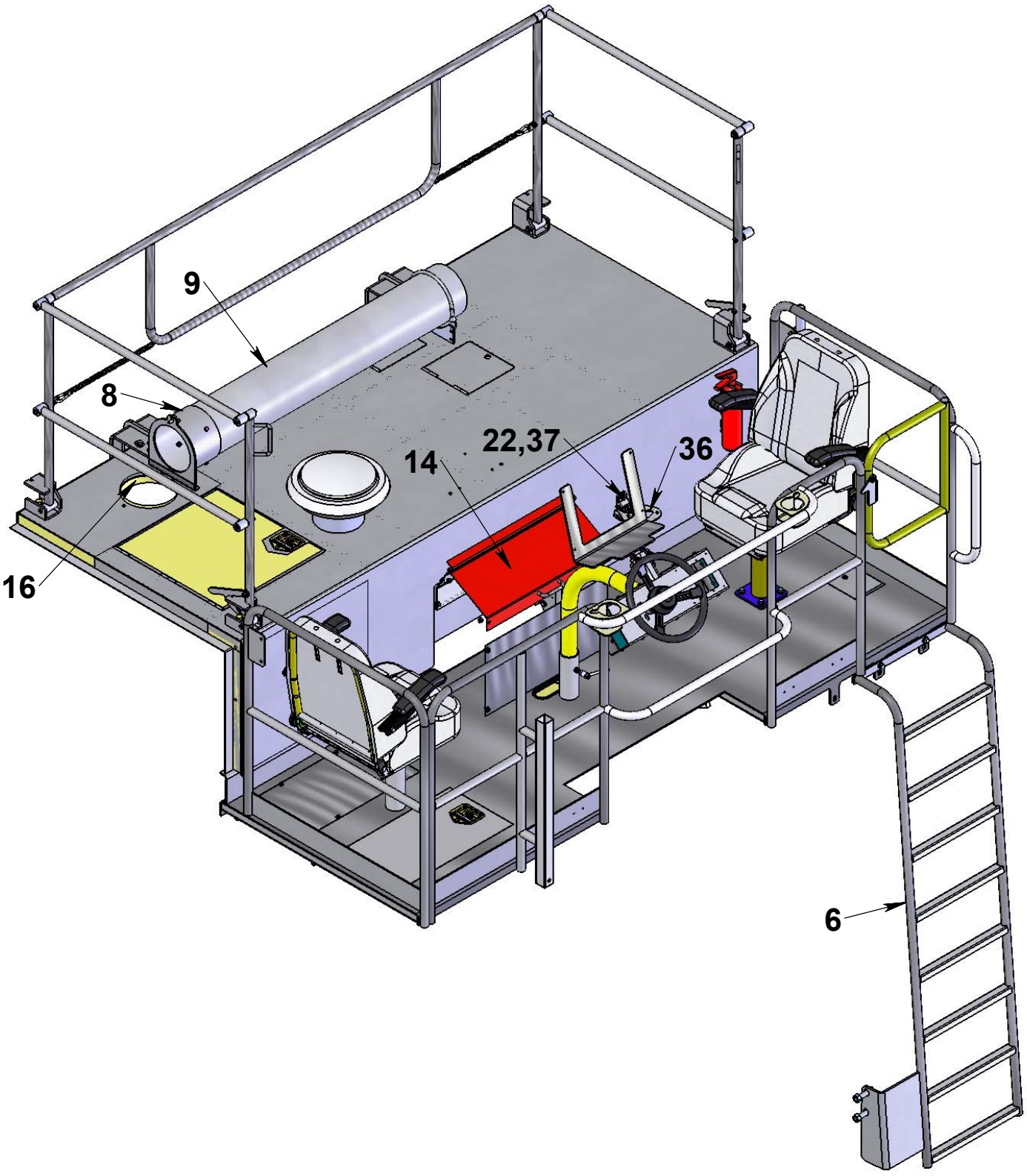
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 230706-02 | DECAL - HAND PUMP INSTRUCTIONS | 1 |
| 2 | 92819-04 | DECAL - CONVEYOR ADJUSTMENT | 6 |
| 3 | 211258-04 | DECAL - WARNING! DISCHARGE AREA | 2 |
| 4 | 141326-03 | DECAL - BATTERY WARNING | 1 |
| 5 | 211262-04 | DECAL - WARNING 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 |

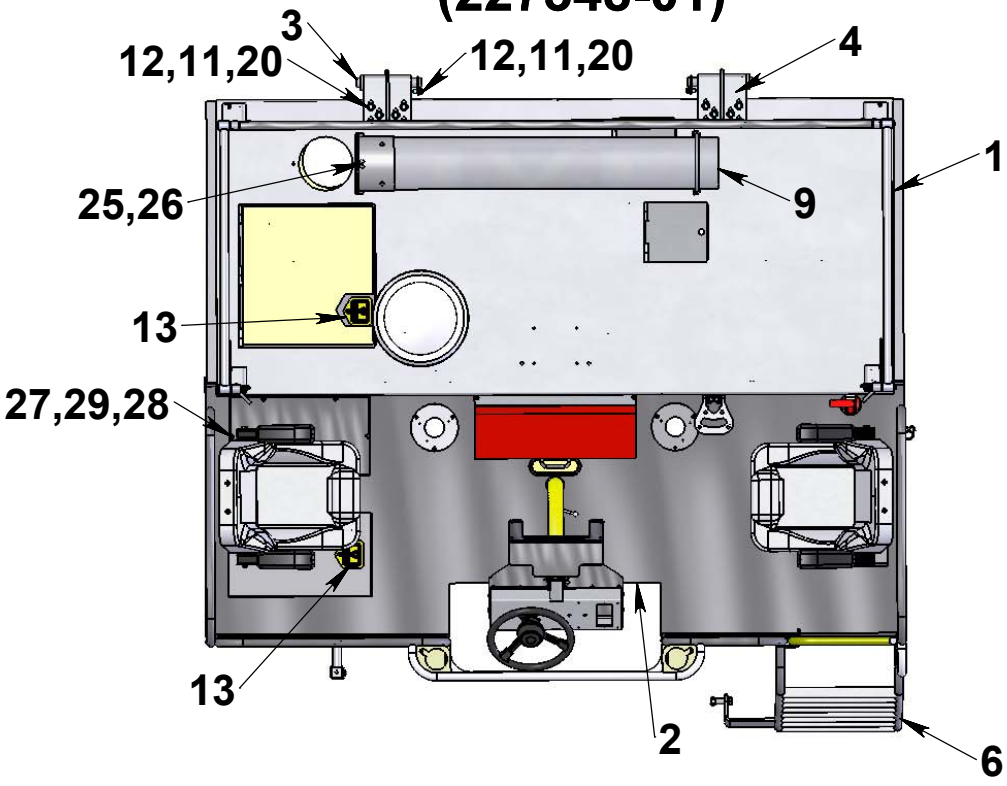
# ASSEMBLY-PLATFORM & HOOD
# (227348-01)

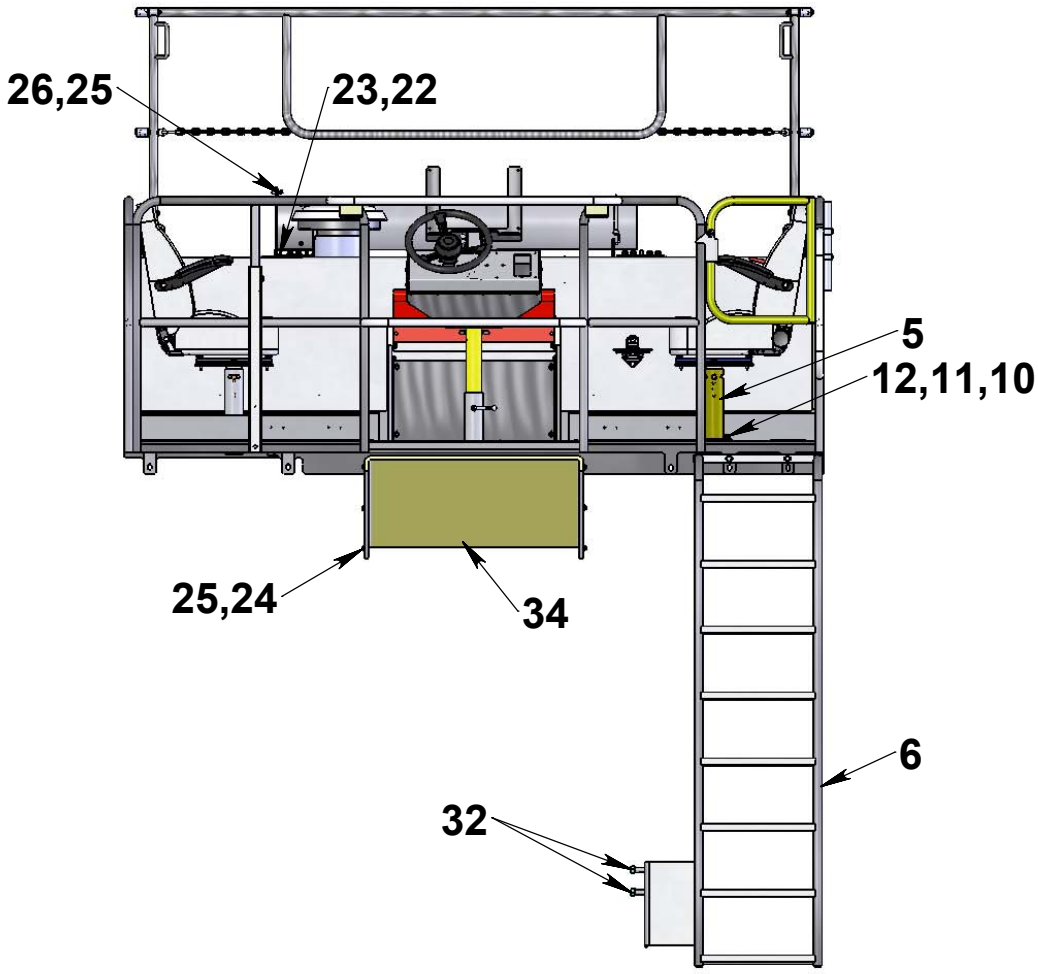
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# ASSEMBLY-PLATFORM & HOOD (227348-01)

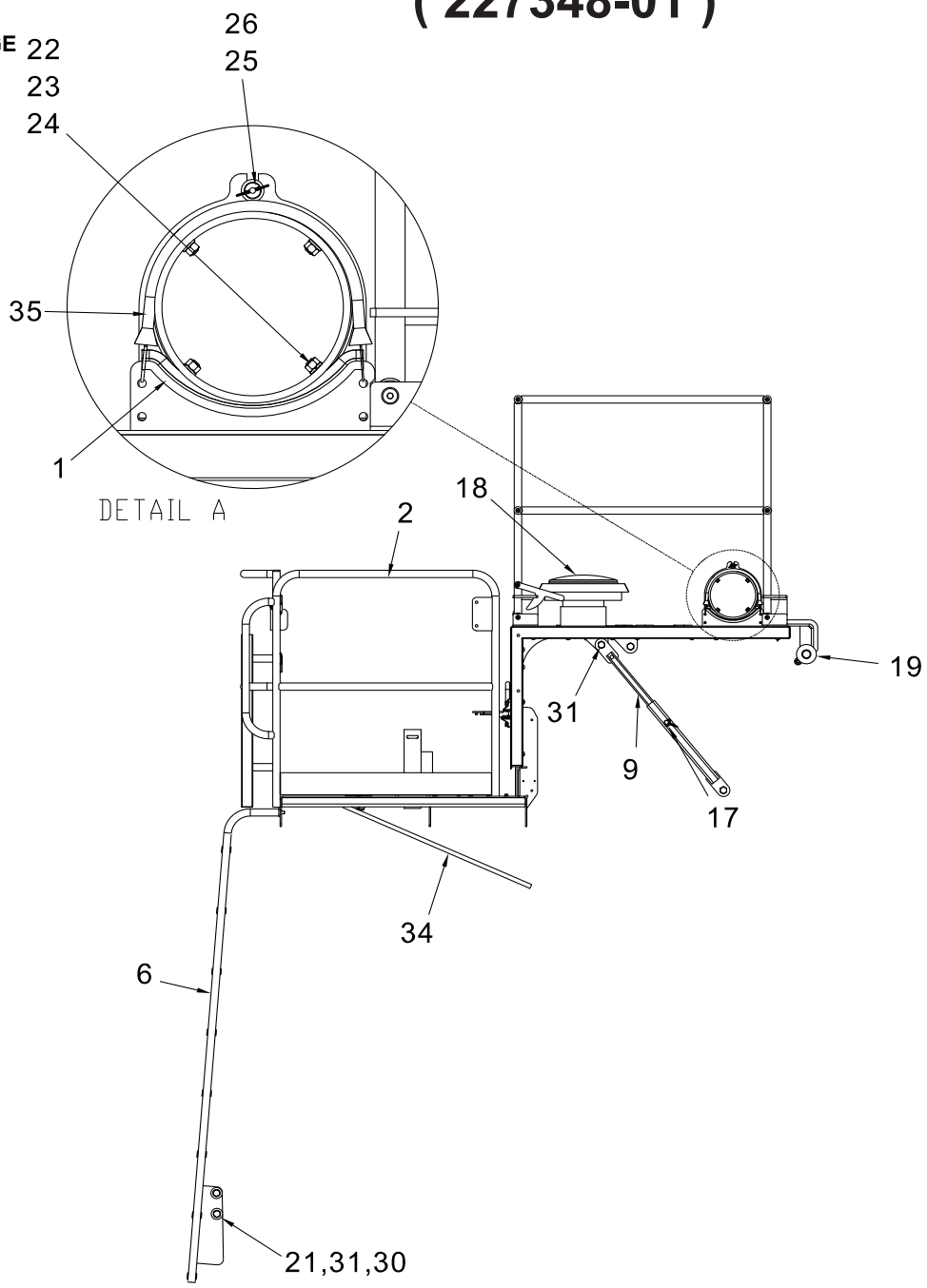


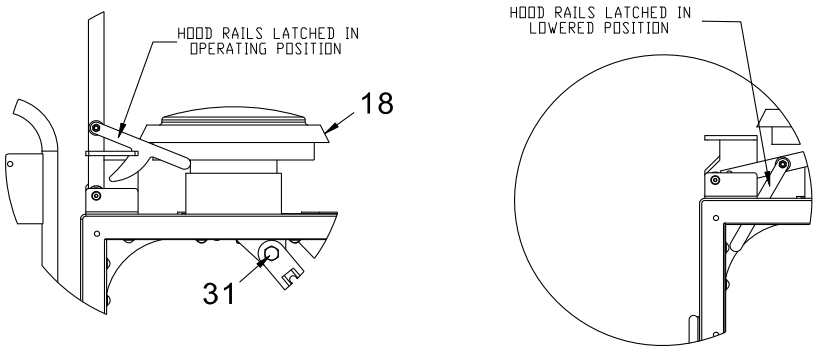


# ASSEMBLY-PLATFORM & HOOD
# ( 227348-01 )

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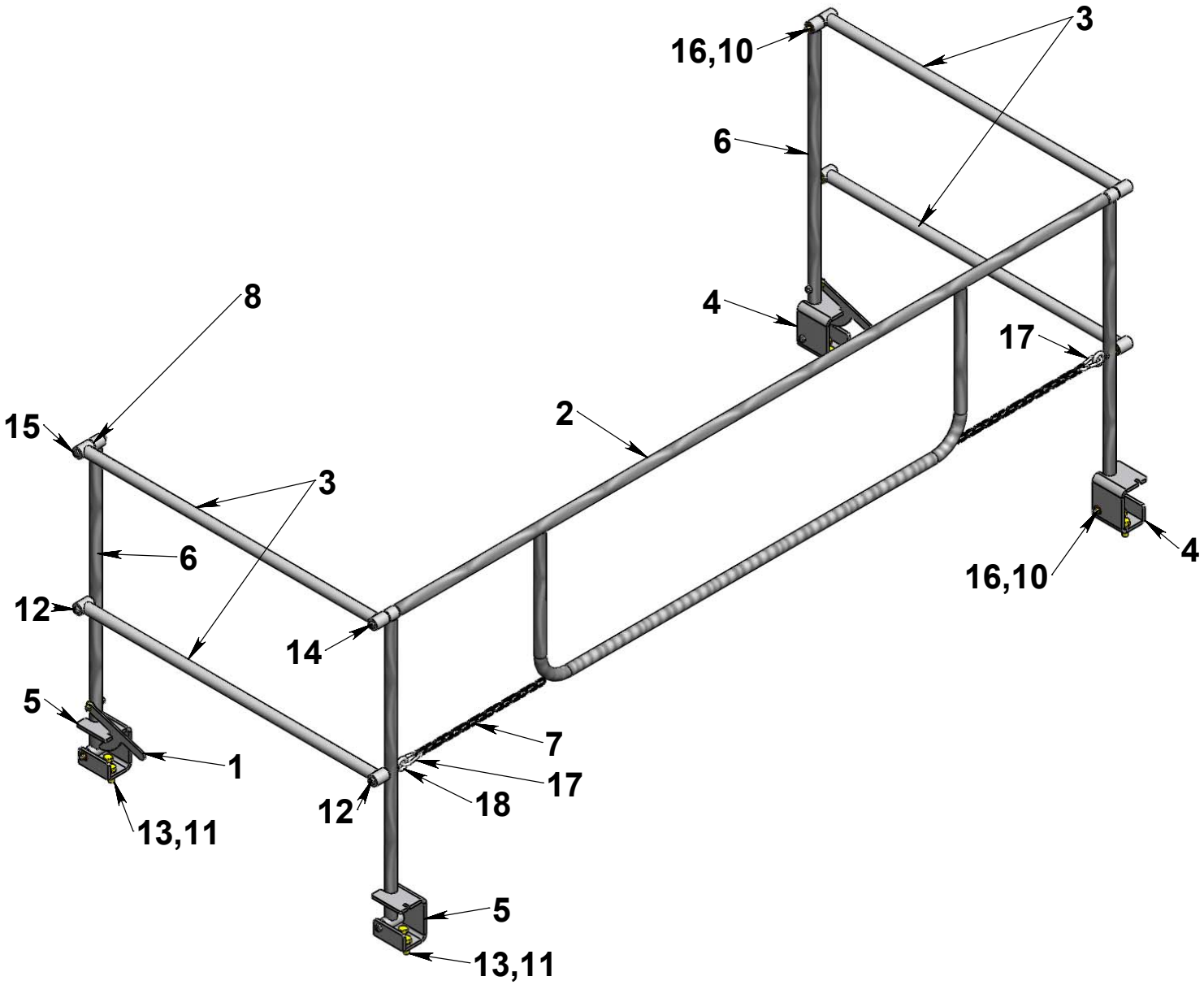




DETAIL B

# 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 |

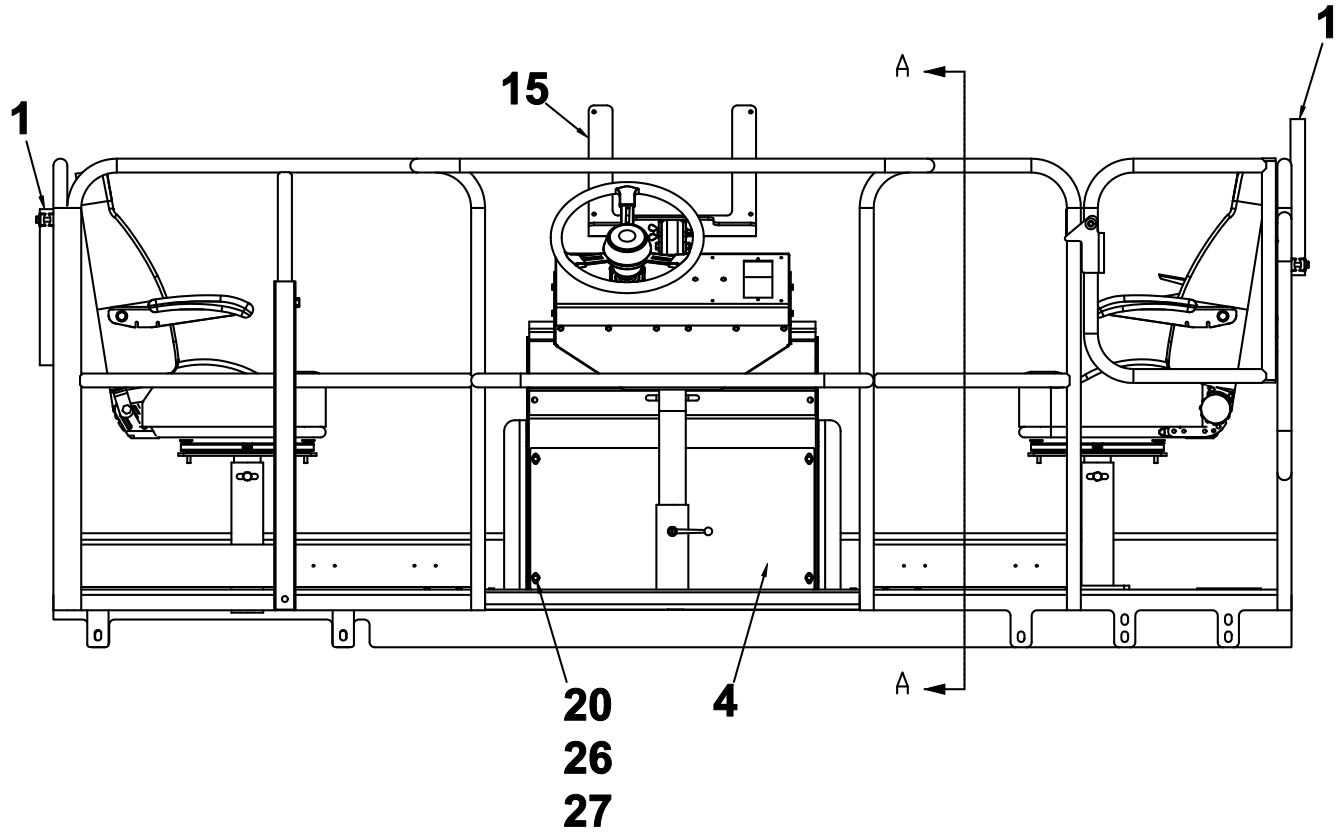
# ASSEMBLY-HOOD RAILS, FOLDING
# (224025-01)

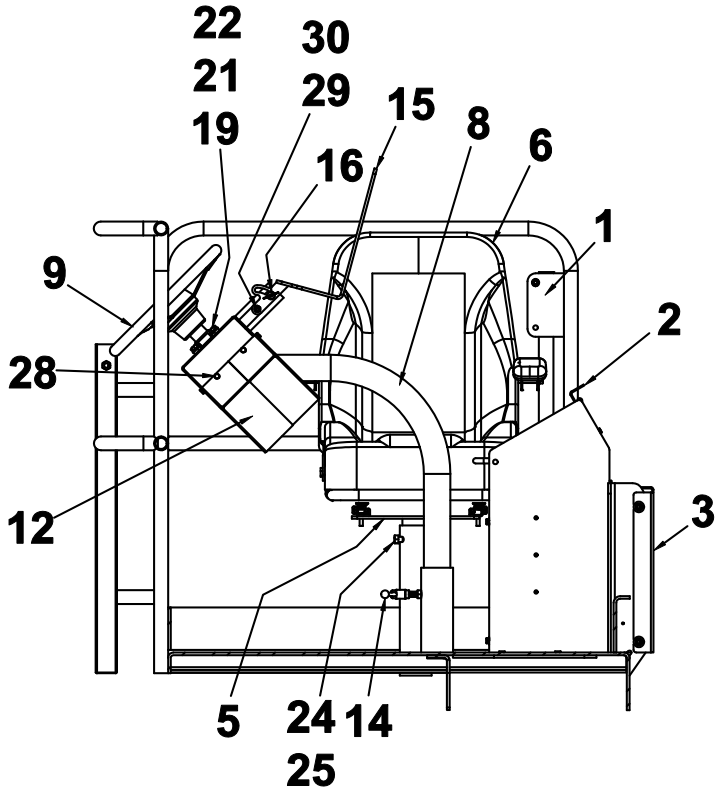



| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 224025-01-1 | PLATE, 1/4 x 9 x 4 1/4, A36 | 2 |
| 2 | 224026-01 | WELDMENT-HOOD RAIL, FRONT | 1 |
| 3 | 224027-01 | WELDMENT-HOOD RAIL, TOP & MID | 4 |
| 4 | 224031-03 | DETAIL-HOOD RAIL MOUNT, LEFT | 2 |
| 5 | 224032-03 | DETAIL-HOOD RAIL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



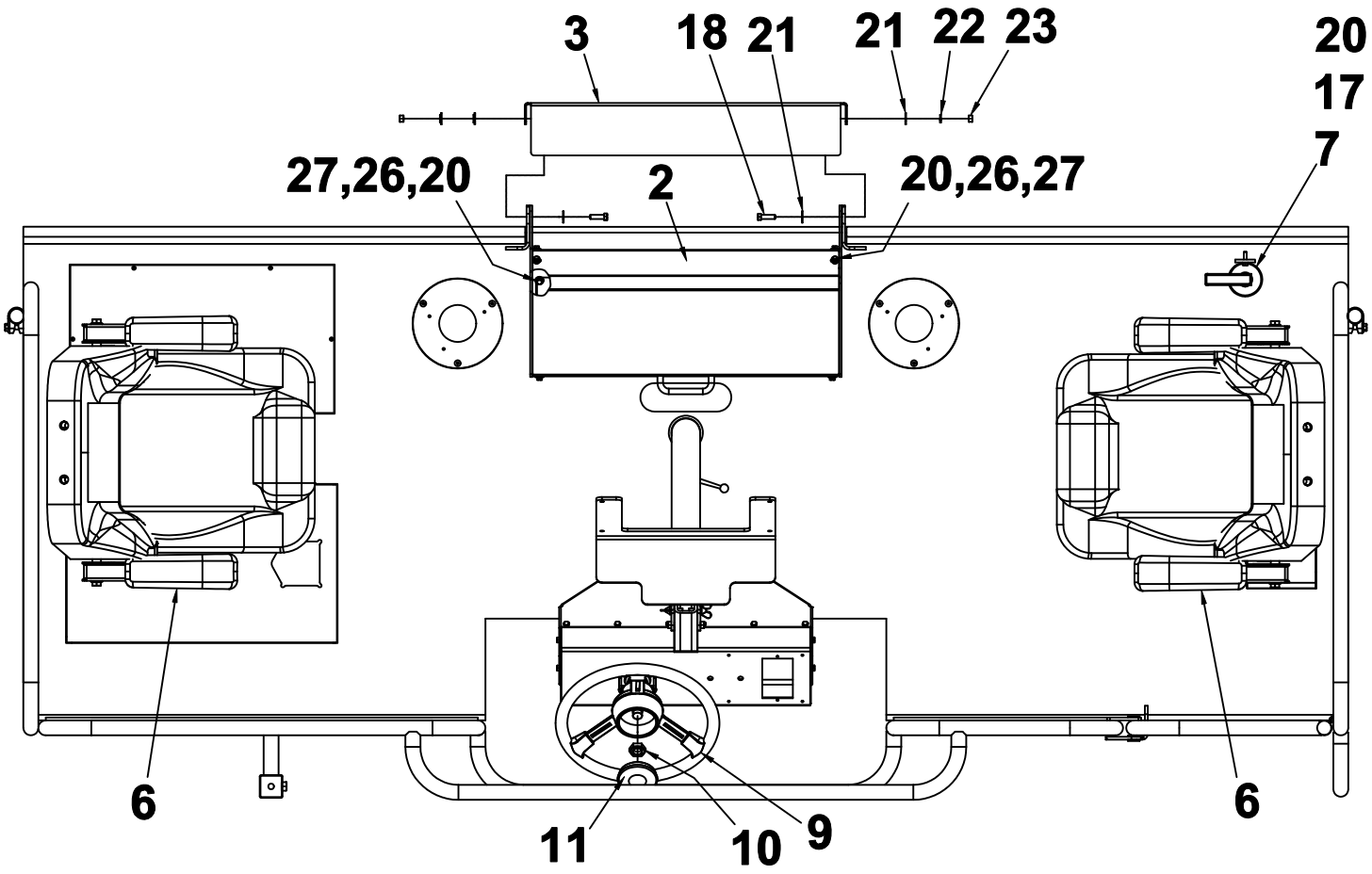

SECTION A-A



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PREVIOUS PAGE

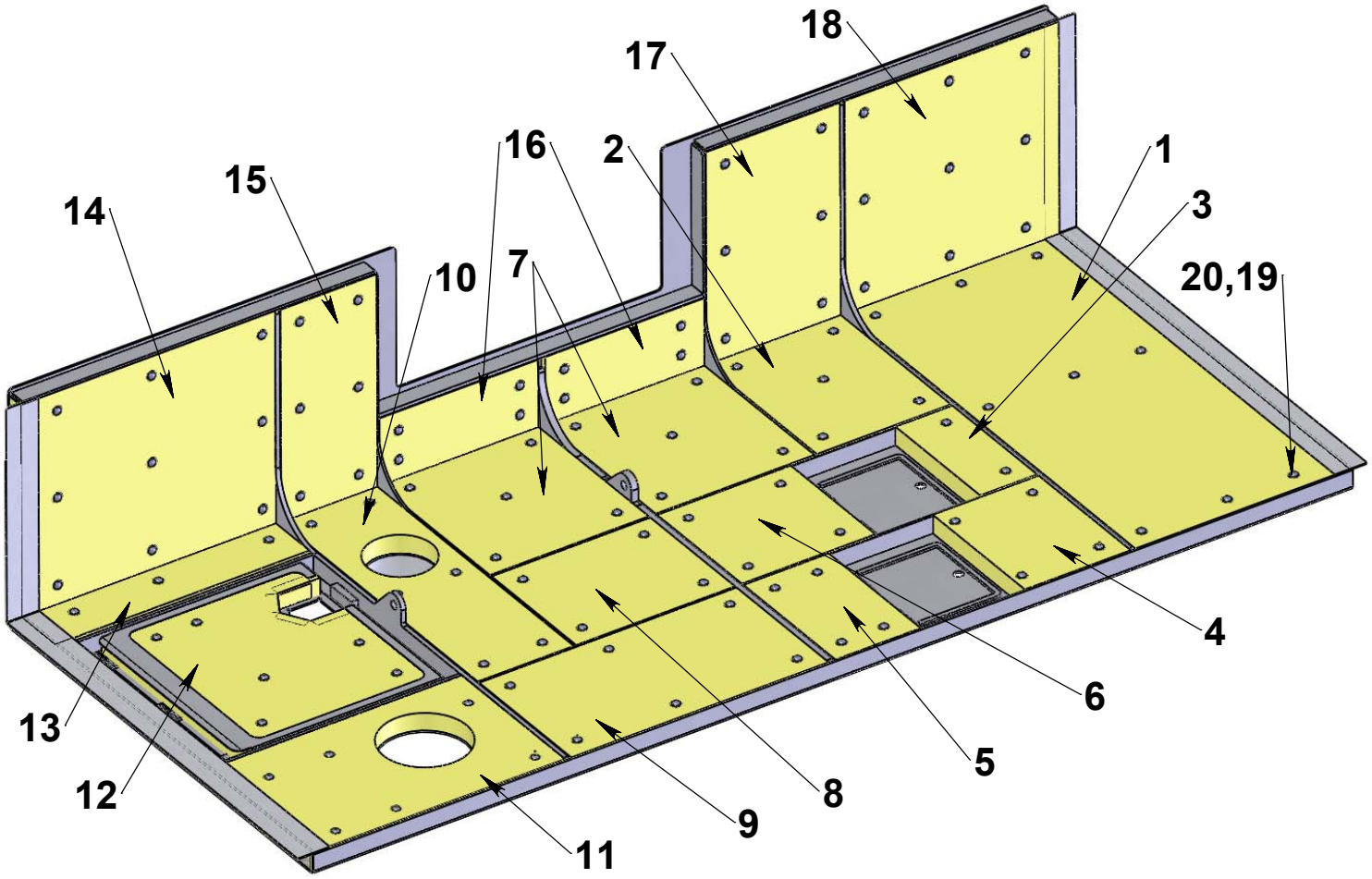
# ASSEMBLY-OPERATORS STATION
# ( 227349-01 )



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

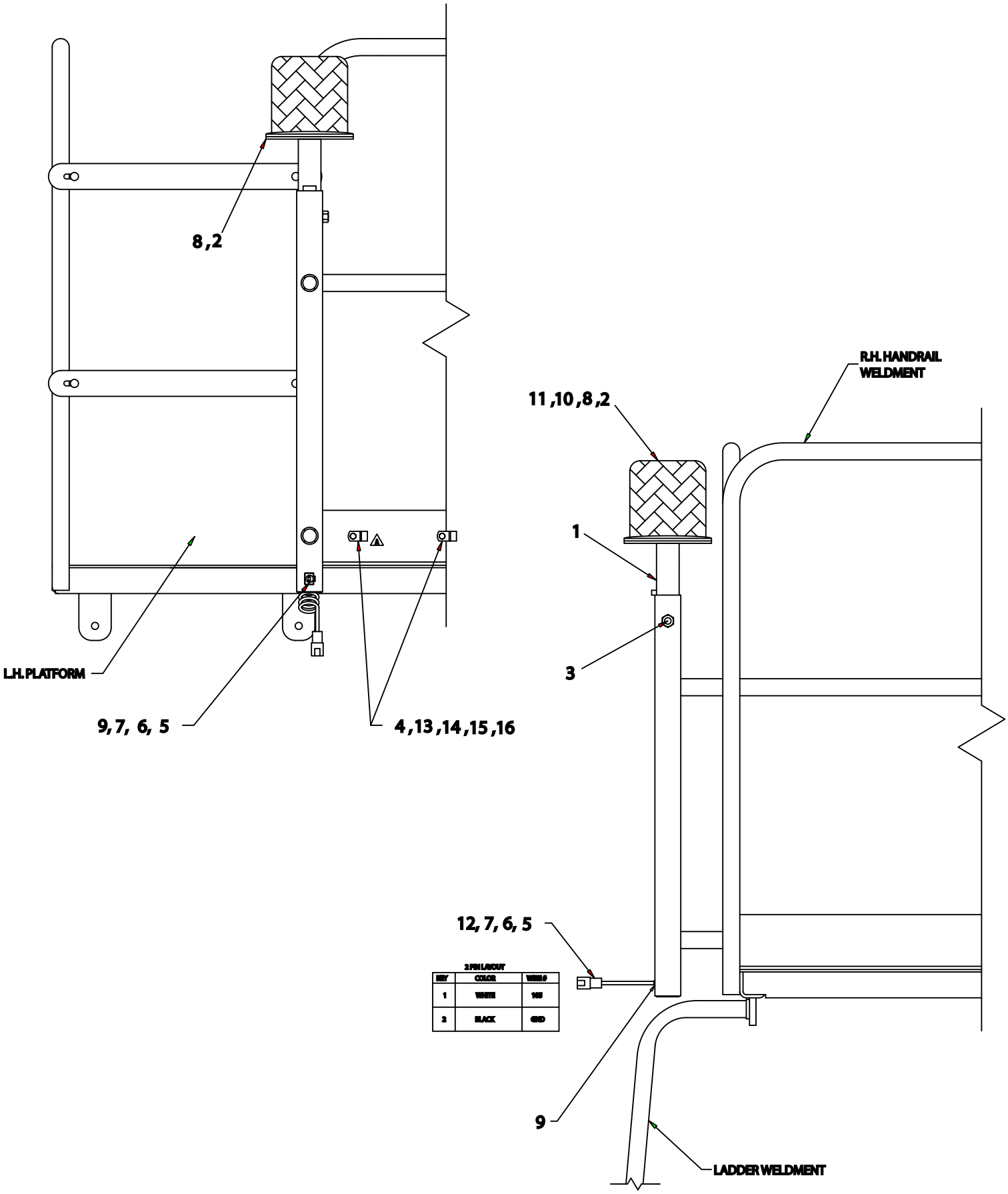
| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 99386 | UMBRELLA * UNIVERSAL BRACKET | 2 |
| 2 | 146496-01 | WELDMENT-VANDAL COVER-1500B | 1 |
| 3 | 217022-03 | REAR CONSOLE COVER | 1 |
| 4 | 203310-03 | DETAIL-CENTER CONSOLE FRONT COVER | 1 |
| 5 | 128095-02 | WELDMENT-SEAT BASE | 2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

# ASSEMBLY- HOOD INSULATION KIT (224744-01)




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

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



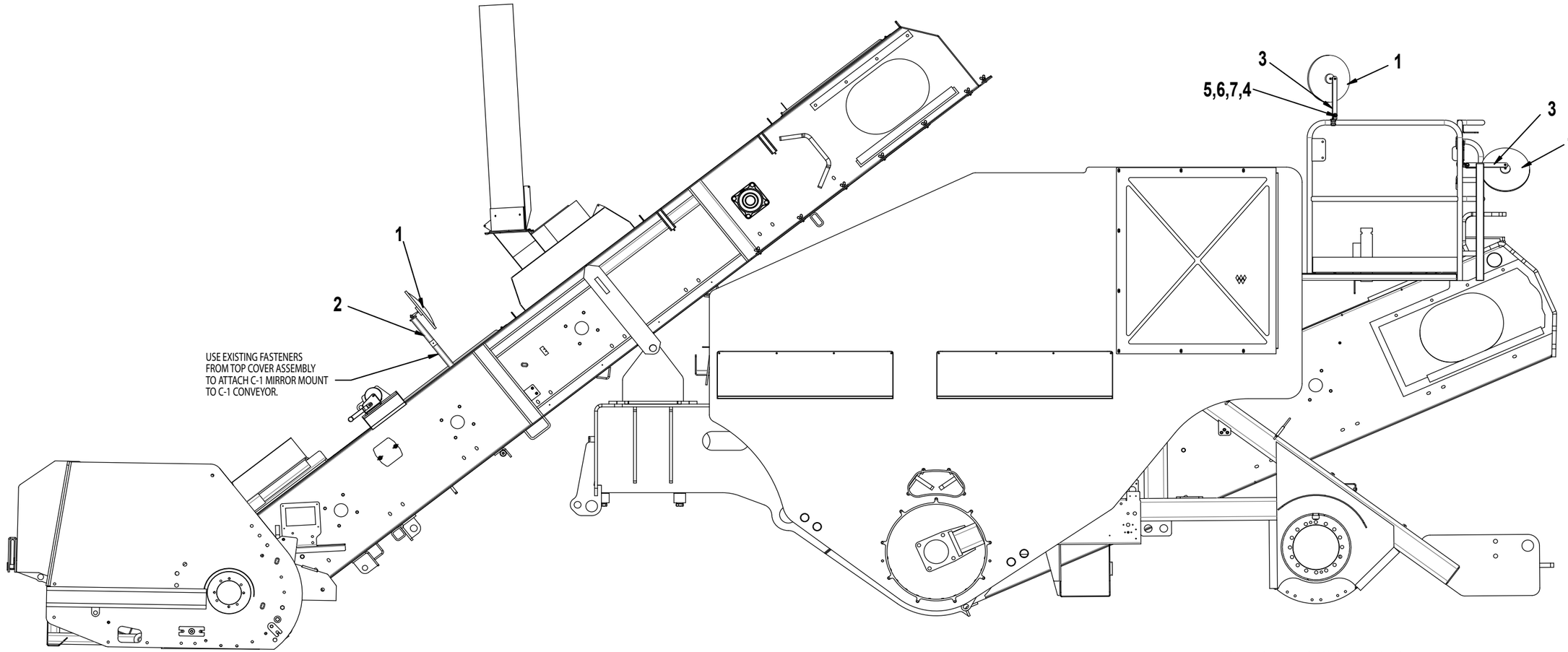
# SB-2500D STROBE LIGHT ASSEMBLY
# ( 214370-01 )

| 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

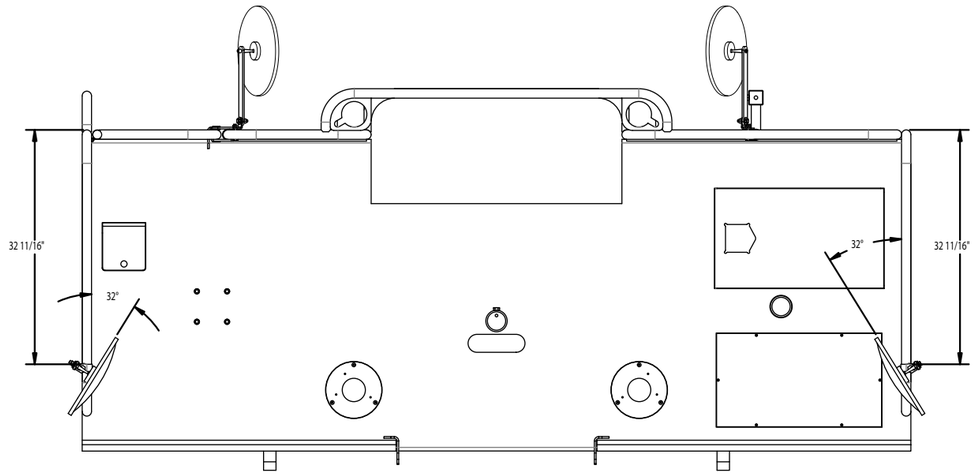
| ITEM # | PART # | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 133459-04 | MIRROR * 12" DIA. | 6 |
| 2 | 201210-03 | WELDMENT-C1 MIRROR MOUNT-2500C | 2 |
| 3 | 133460-04 | DETAIL-MIRROR MOUNTING ARM | 4 |
| 4 | 96476 | BOLT * HEX 3/8"-16 X 1 1/4" | 4 |
| 5 | 83056 | WASHER ~ LOCK 3/8 SPRING STEEL |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



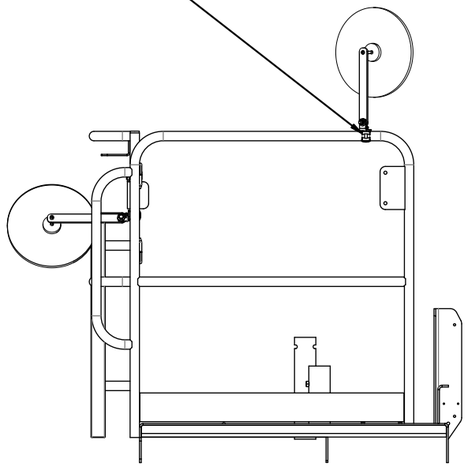

**ASSEMBLE MIRRORS AS SHOWN ON THE LEFT AND RIGHT SIDES OF THE MACHINE.**

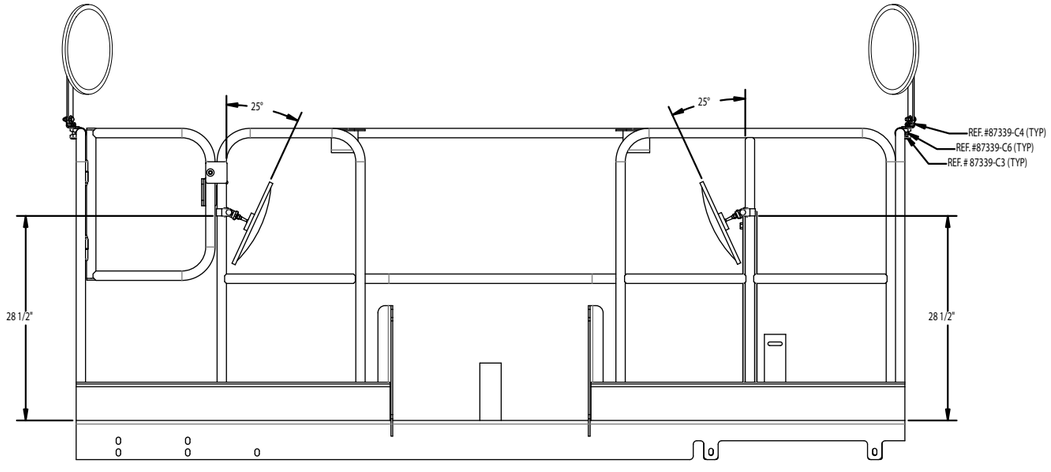
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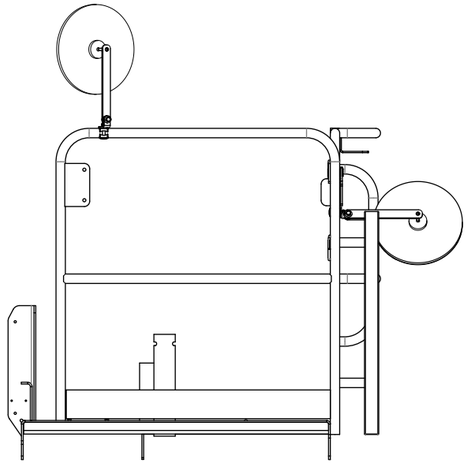
# MIRROR ASSEMBLY
# ( 202080-01 )




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.





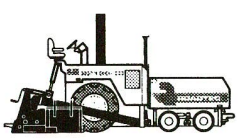



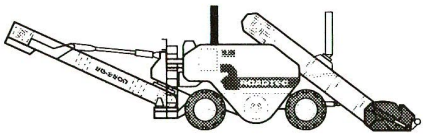
MIRROR ORIENTATION VIEWS

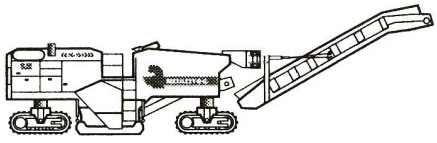
ROADTEC
an Astec company

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

TOLL FREE 800-272-7100







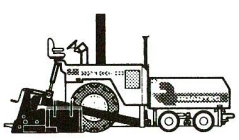
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

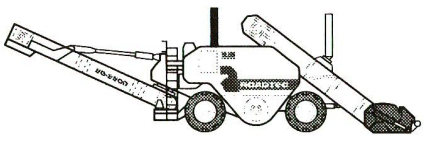
ROADTEC
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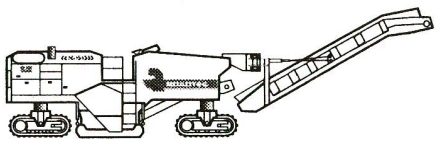
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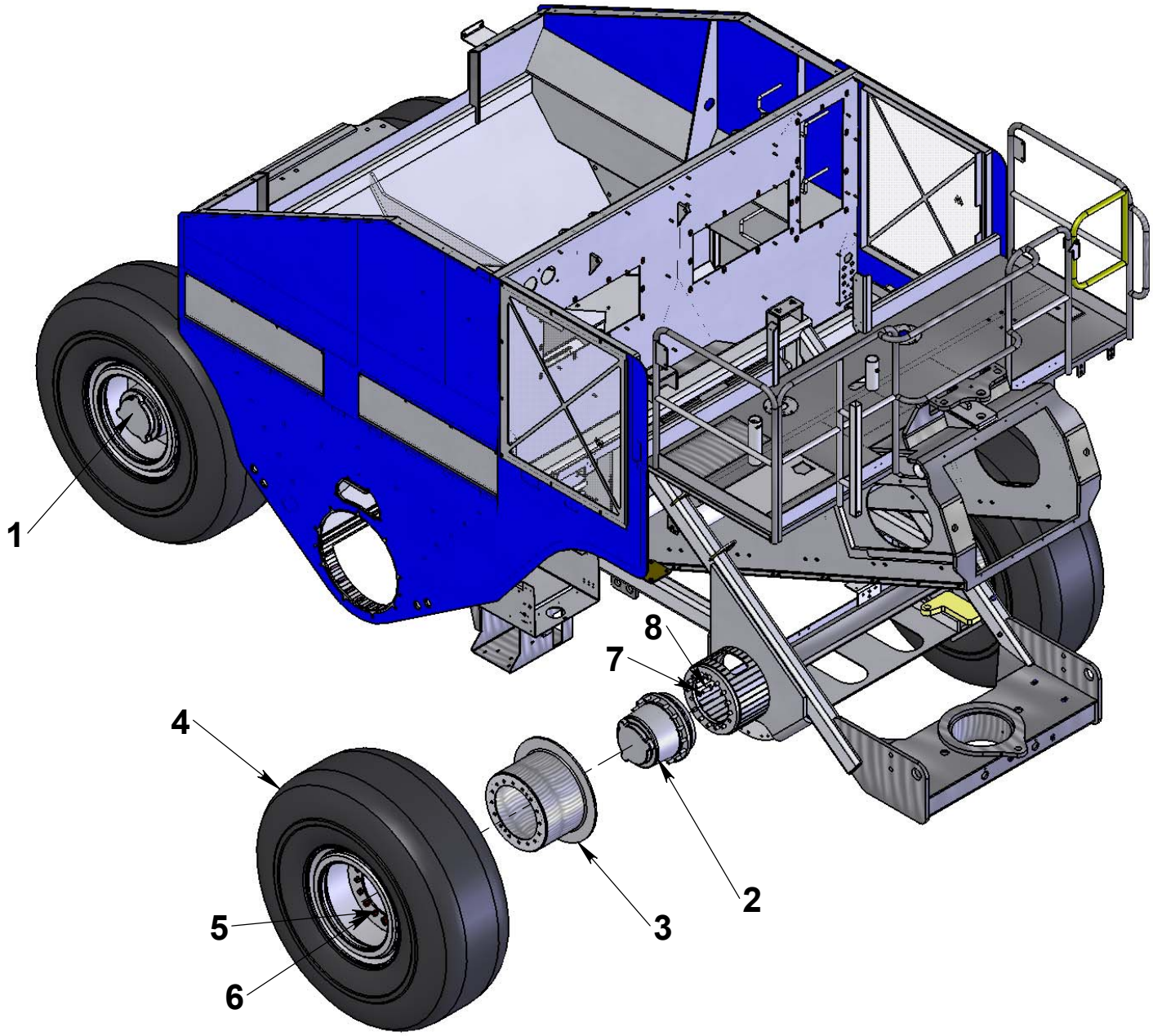
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ROADTEC
an Astec Industries Company

# SECTION 3 : AXLE & DRIVE

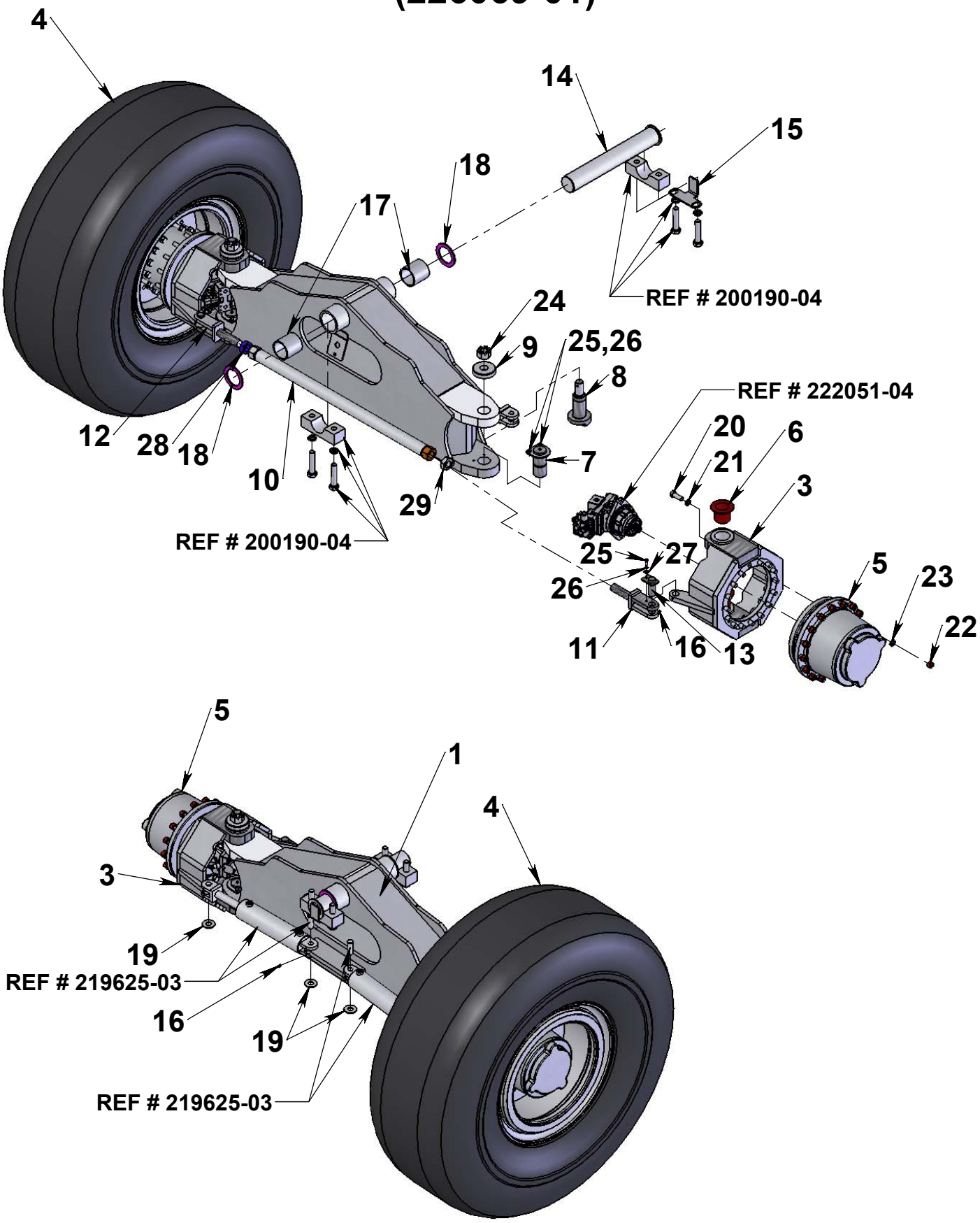

| ASSEMBLY | PART NO. | S/N | PAGE NO. |
|---|---|---|---|
| FRONT & REAR AXLE | 226435-01 | 1038,1044 & UP | 3.1 |
| DRIVE AXLE | 226069-01 | | 3.3 |
| TRANS. GEAR BOX | 218897-01 | | 3.5 |
| PROPEL MOTOR | 222051-04 | | 3.7 |

# 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 |

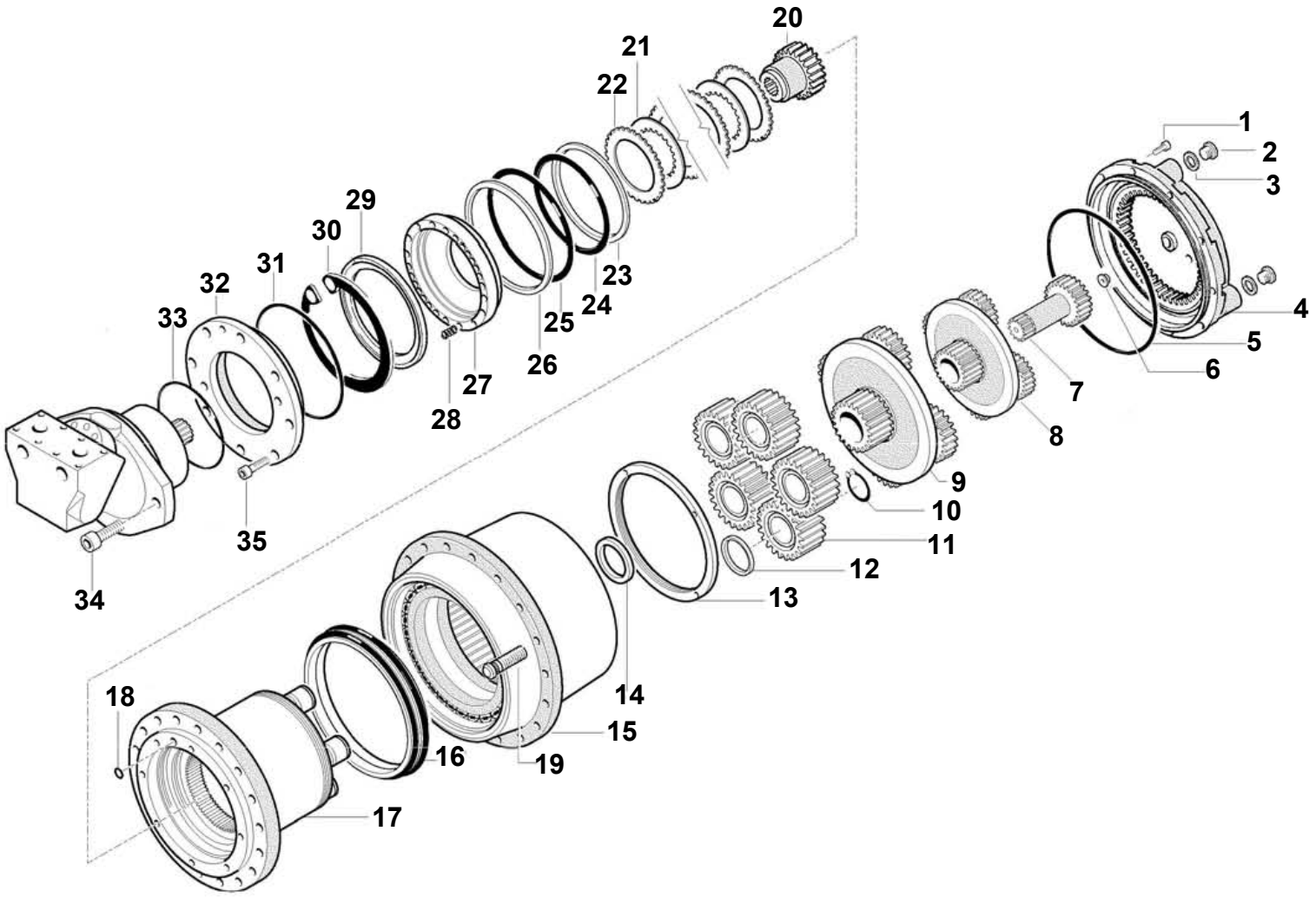
# ASSEMBLY-FRONT STEERING AXLE
# (226069-01)



# 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 )

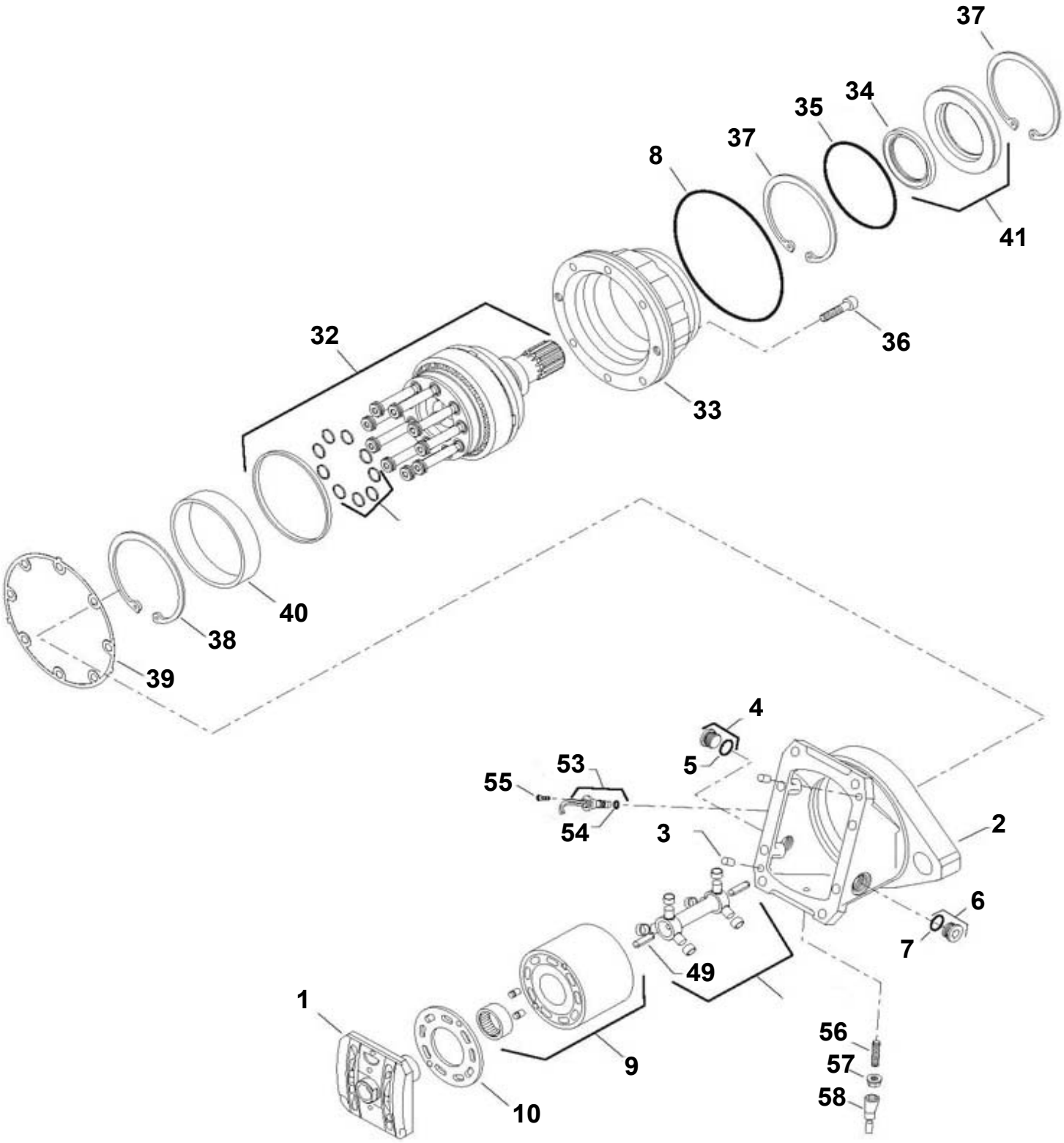


# SB-2500D TRANS. GEAR BOX ASSEMBLY
# ( 218897-01 )

| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 218897-01-C2 | SCREW | 10 |
| 2 | 208897-01-C2-2 | OIL BREATHER PLUG | 2 |
| 3 | 208897-01-C2-3 | WASHER | 2 |
| 4 | 218897-01-C5 | COVER ASSEMBLY | 1 |
| 5 | 218897-01-C6 | O-RING | 1 |
| 6 | 208897-01-C2-6 | PAD | 1 |
| 7 | 218897-01-C8 | SUN GEAR | 1 |
| 8 | 218897-01-C9 | REDUCTION ASSEMBLY | 1 |
| 9 | 208897-01-C2-8 | REDUCTION ASSEMBLY | 1 |
| 10 | 208897-01-C2-9 | CIRCLIP | 5 |
| 11 | 218897-01-C12 | PLANETARY ASSEMBLY | 5 |
| 12 | 208897-01-C2-11 | SPACER | 5 |
| 13 | 208897-01-C2-12 | NUT | 1 |
| 14 | 218897-01-C15 | CENTERING RING | 1 |
| 15 | 218897-01-C16 | BEARING HOUSING | 1 |
| 16 | 218897-01-C17 | LIFETIME SEAL | 1 |
| 17 | 218897-01-C18 | HUB | 1 |
| 18 | 208897-01-C2-15 | O-RING | 1 |
| 19 | 218897-01-C1 | 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 | BACKUP RING | 1 |
| 24 | 218897-01-C24 | O-RING | 1 |
| 25 | 218897-01-C25 | O-RING | 1 |
| 26 | 218897-01-C26 | BACKUP RING | 1 |
| 27 | 218897-01-C27 | BRAKE PISTON | 1 |
| 28 | 203026-03-C7-29 | SPRING | 18 |
| 29 | 218897-01-C29 | SPRING RETAINER PLATE | 1 |
| 30 | 218897-01-C30 | CIRCLIP | 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 |

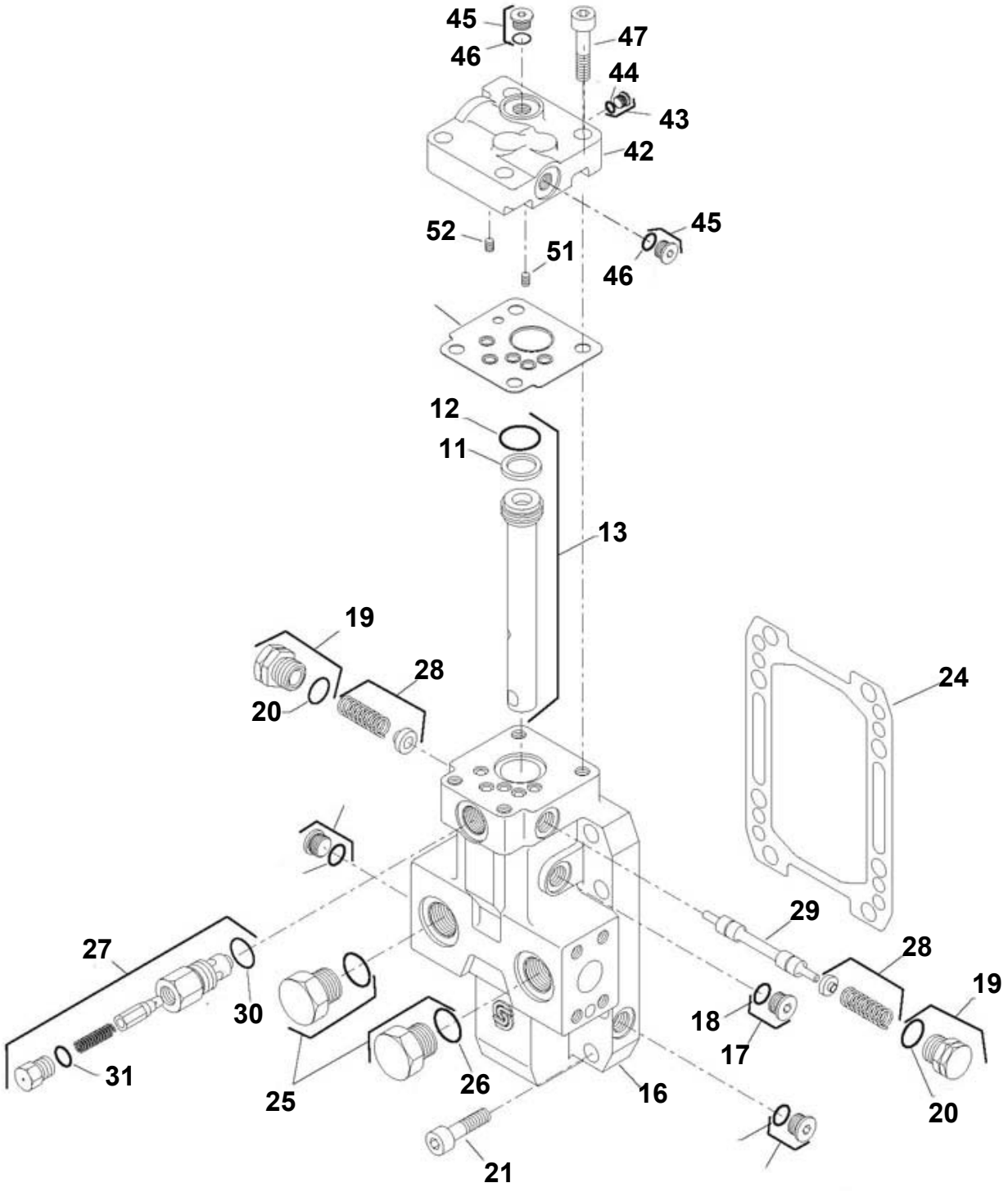
# PROPEL MOTOR
# ( 222051-04 )

NEXT PAGE



PREVIOUS PAGE

# PROPEL MOTOR
# ( 222051-04 )



# PROPEL MOTOR
# ( 222051-04 )

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

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

# PROPEL MOTOR
# ( 222051-04 )

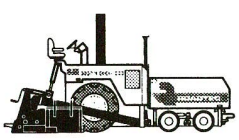
**51C-060-1-R-D1-B-N1-NN-N-N-U1-AWH-016-AA-E4-00-00**

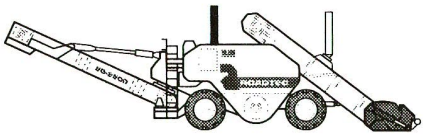
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 46 | | PLUG | 2 |
| 47 | | O-RING | 4 |
| 48 | | SCREW | 4 |
| 49 | | SAFETY CAP, GREEN | 1 |
| 50 | | SYNCH SHAFT KIT | 1 |
| 51 | | PISTON RING KIT | 1 |
| 52 | | ORIFICE, 0.8 M6 X 8 | 1 |
| 53 | | ORIFICE, 0.8 M6 X 8 | 1 |
| 54 | | SPEED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

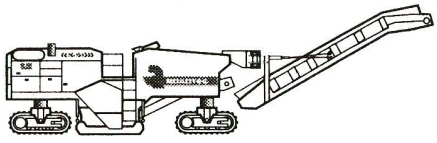
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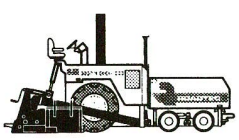
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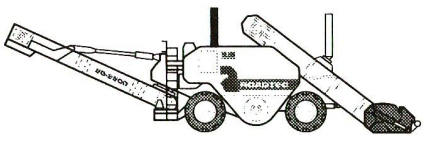
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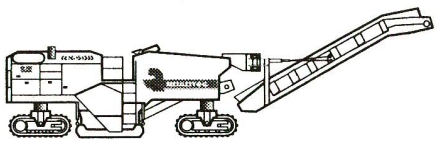
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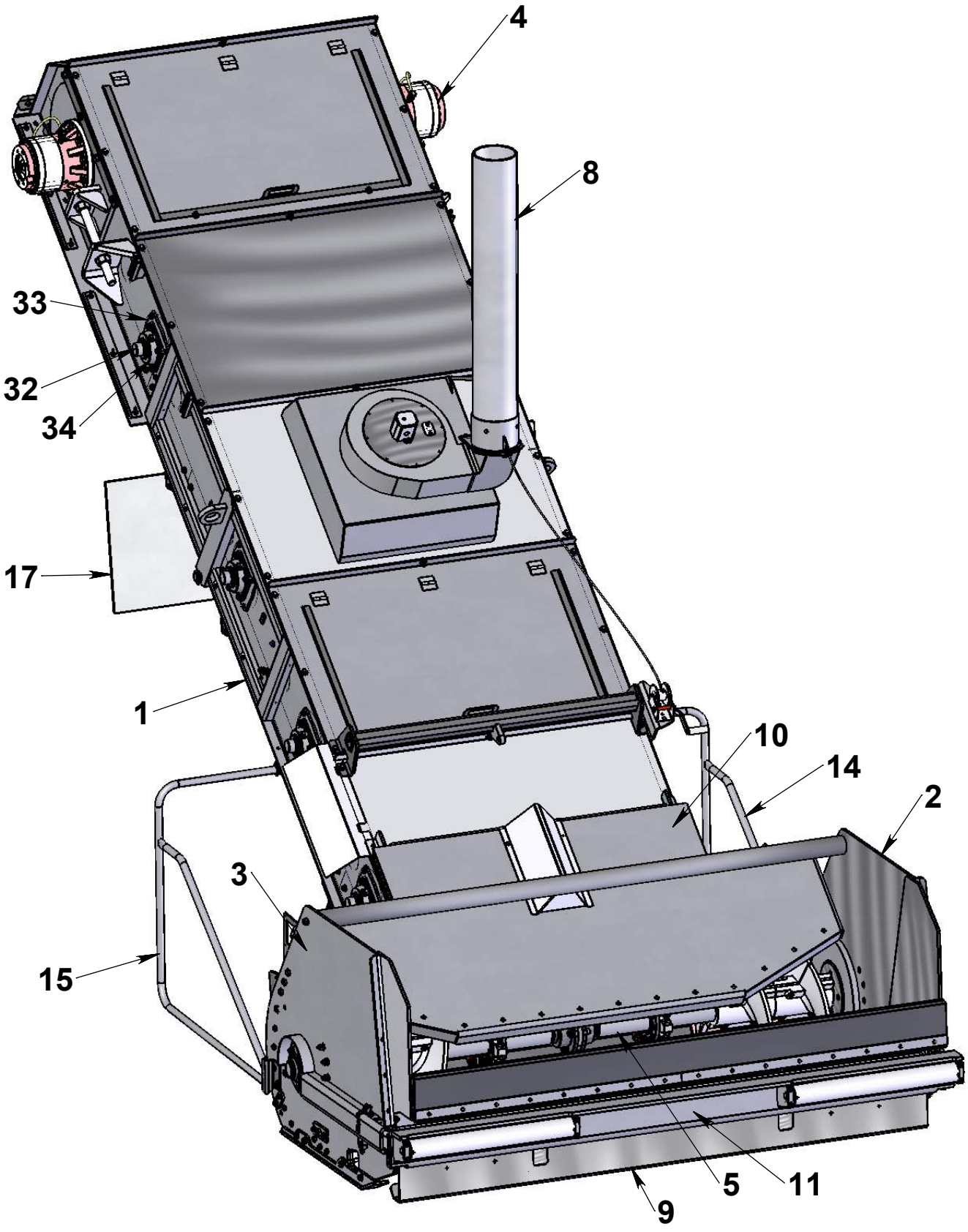
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# SECTION 4 : CONVEYORS


| ASSEMBLY | PART NO. | S/N | PAGE NO. |
|---|---|---|---|
| C-1 CONVEYOR | 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 |

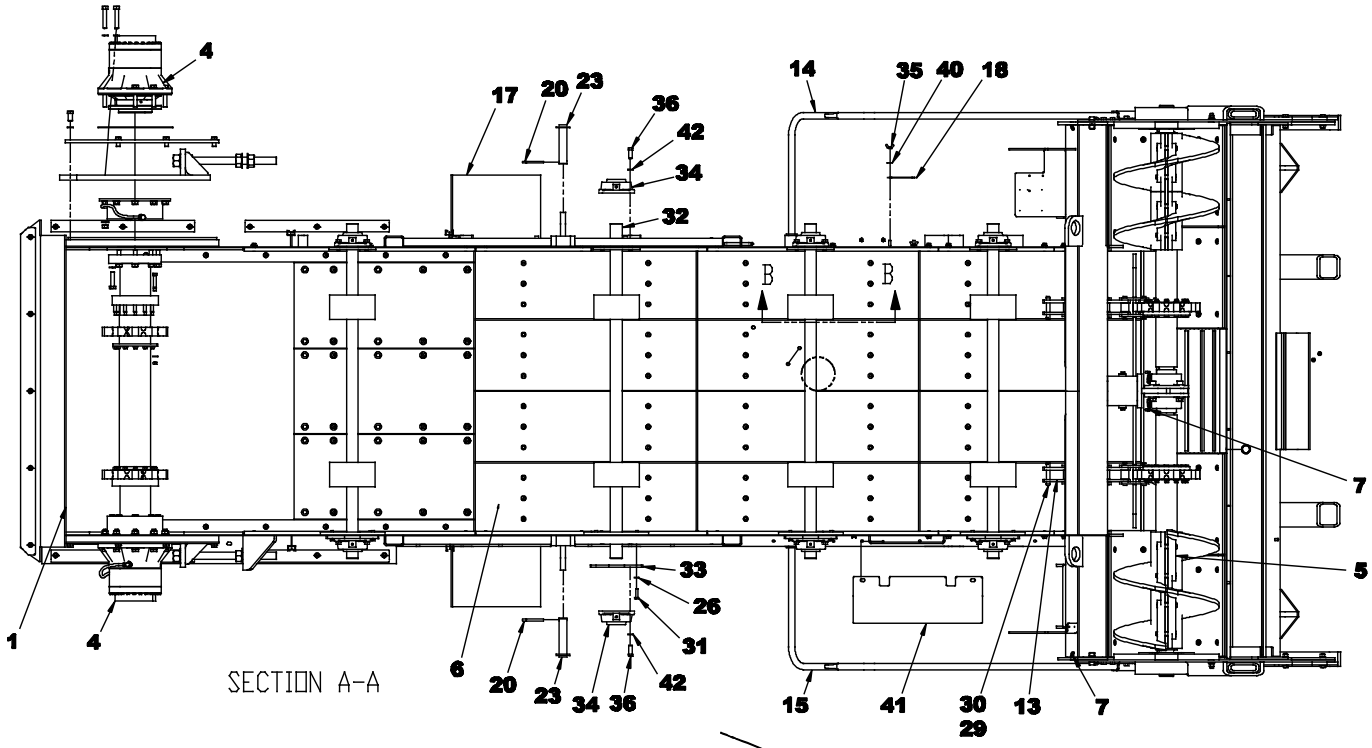
# C-1 CONVEYOR ASSEMBLY
# ( 236472-01 )

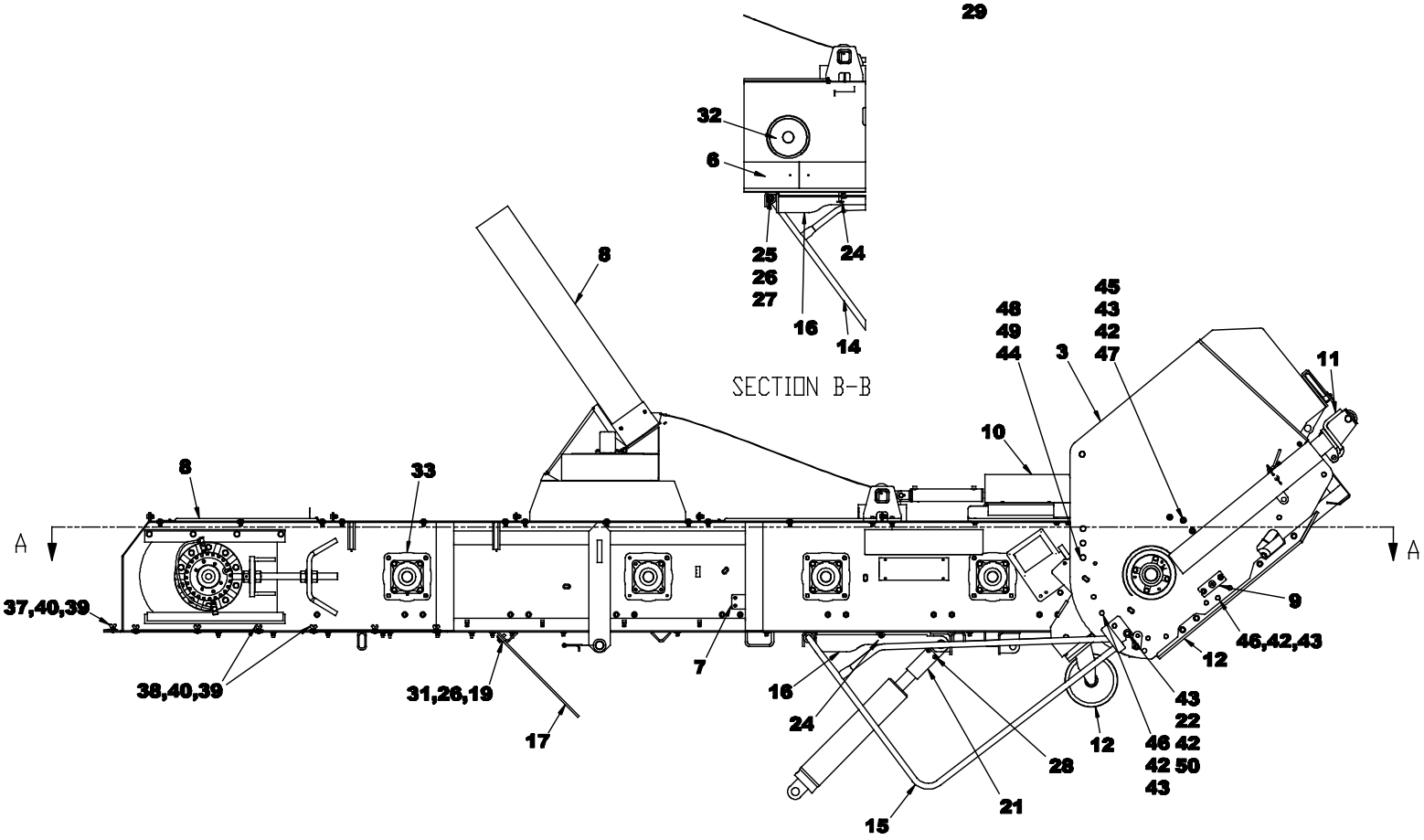
NEXT PAGE



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# C-1 CONVEYOR ASSEMBLY
# ( 236472-01 )



# C-1 CONVEYOR ASSEMBLY
# ( 236472-01 )

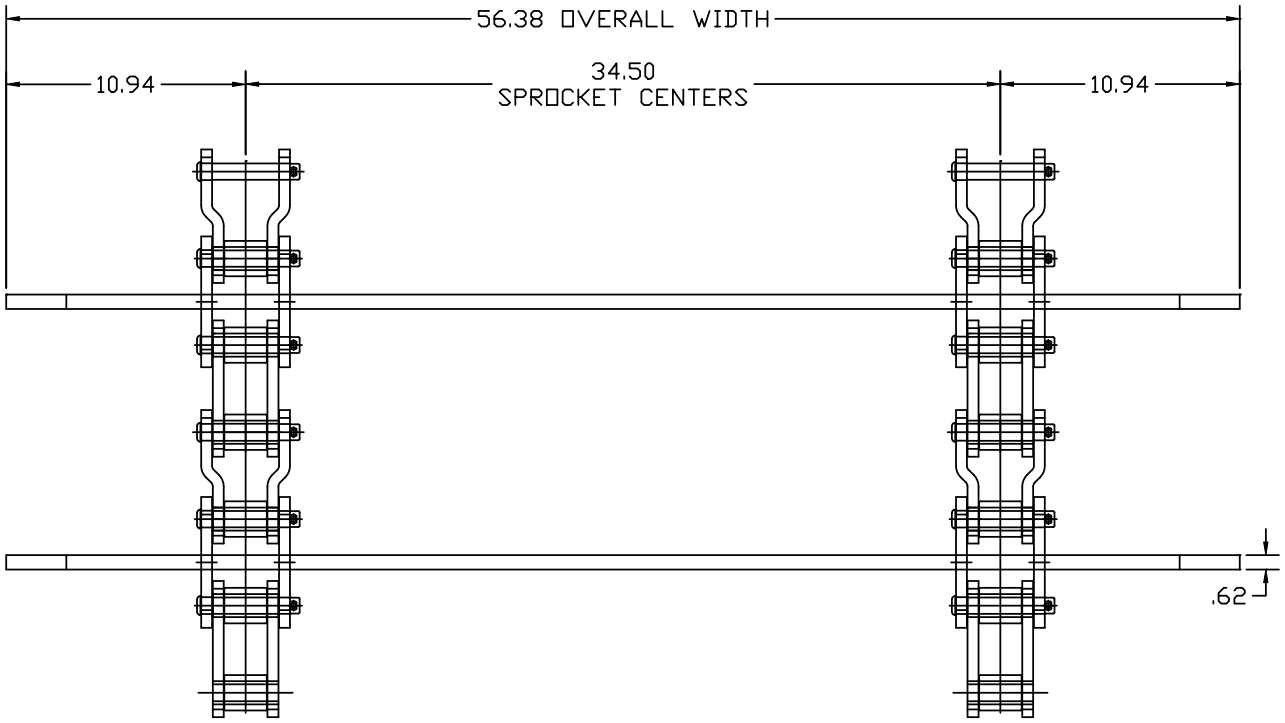
| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 1 | 233734-01 | WLDT-C1 CONVEYOR | 1 |
| 2 | 216487-01 | WELDMENT, LH C1 HOPPER ENDPLATE | 1 |
| 3 | 216486-01 | WELDMENT, RH C1 HOPPER ENDPLATE | 1 |
| 4 | 235540-01 | ASSEMBLY-C1 HEADSHAFT & TAKE-UP | 1 |
| 5 | 230774-01 | ASSY-C1 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 )

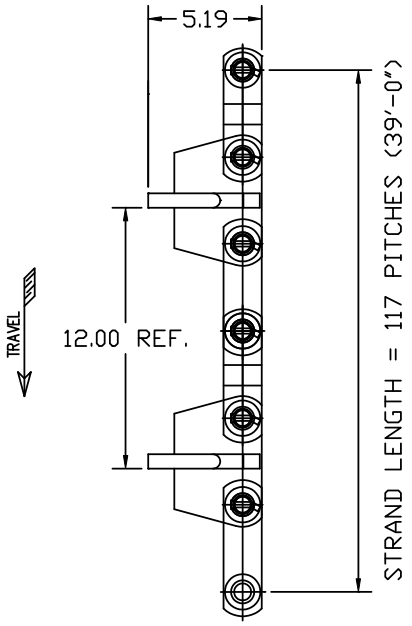
| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 46 | 96041 | BOLT ~ HEX 5/8-11 x 2" | 12 |
| 47 | 91223-04 | BOLT * CSK 5/8"-11 X 1 3/4" | 6 |
| 48 | 84071-04 | NUT * 3/4"-10 ASTM HEX 563 A GR.8 | 6 |
| 49 | 83752-04 | WASHER ~ LOCK 3/4" SPRING STEEL | 6 |
| 50 | 93122 | BOLT * HEX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



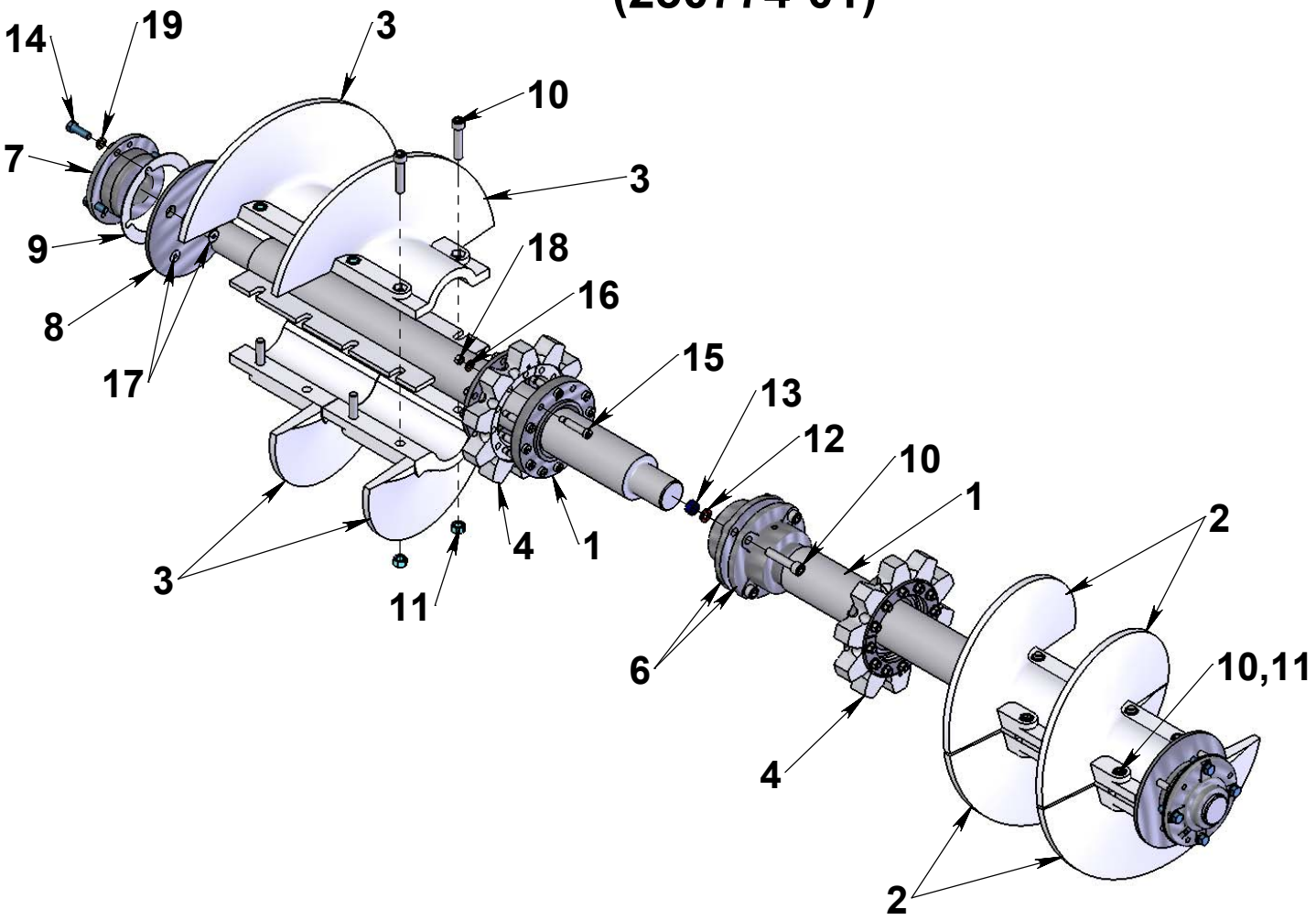

WELD SIZE TO BE
± 1/16"




FOR PLAIN CHAIN DIMENSIONS
AND SPECIFICATIONS SEE
DRAWING # C2846

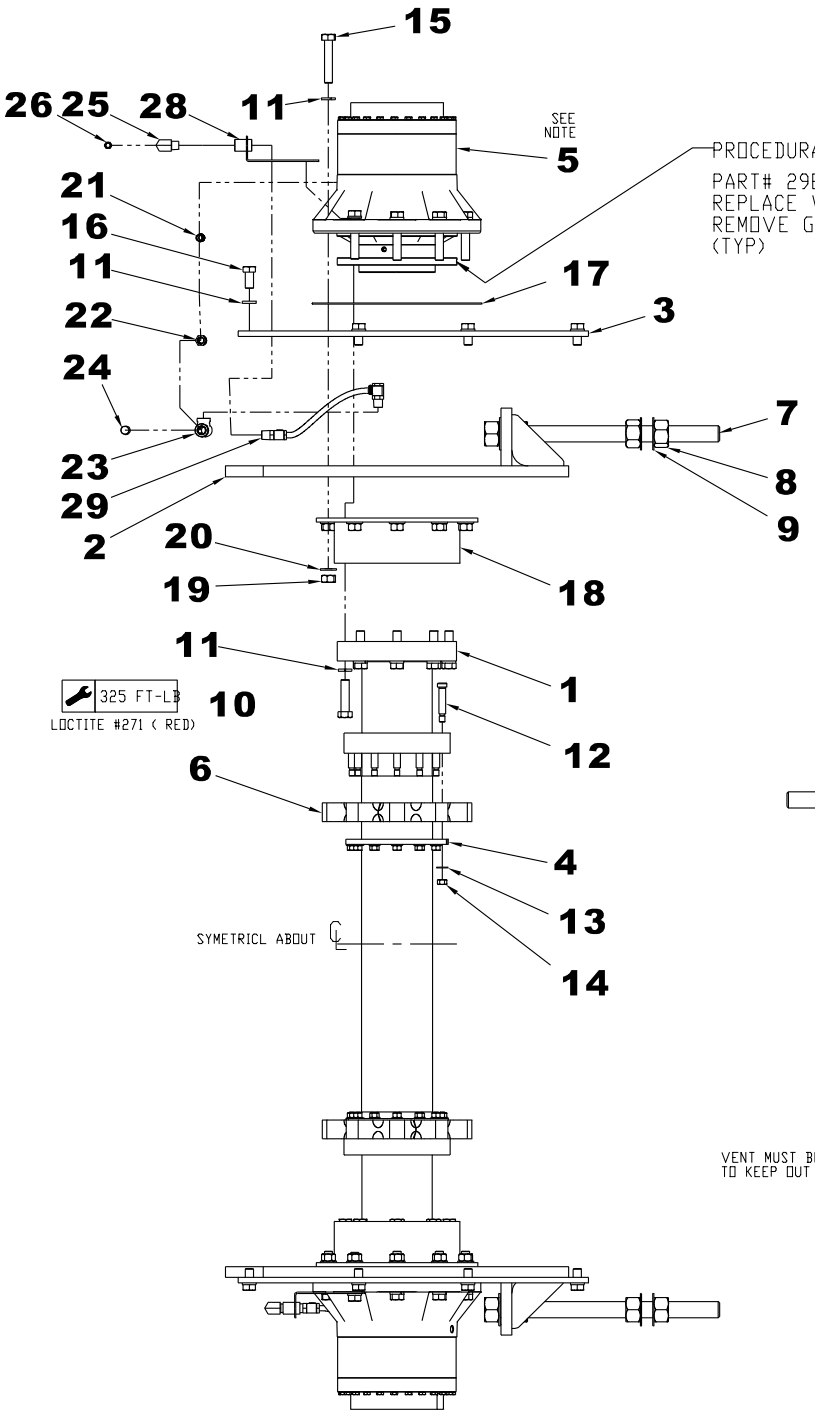
| ULTIMATE STRENGTH | PART | MATERIAL | TREATMENT |
|---|---|---|---|
| 84,000 LBS. | SIDEBARS | CARBON STEEL | HEAT-TREATED |
| WORKING LOAD | PIN | ALLOY STEEL | INDUCTION HARDEN |
| 7,200 LBS. | BUSHING | ALLOY STEEL | CASE HARDEN |
| WEIGHT PER FOOT | ROLLER | ALLOY STEEL | CASE HARDEN |
| 18.0 LBS.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

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



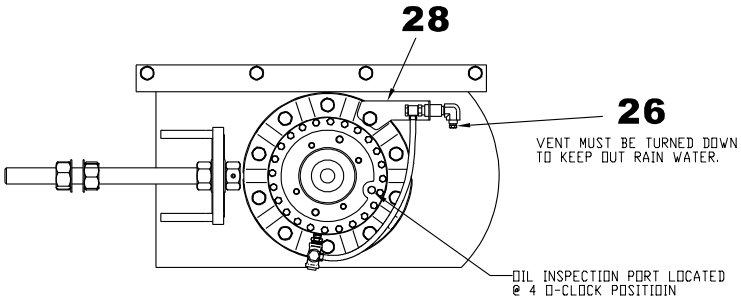

| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 1 | 230784-01 | WELDMENT-C1 FOOT SHAFT | 2 |
| 2 | 230783-01 | AUGER * 12" RH PITCH | 4 |
| 3 | 230782-01 | AUGER * 12" LH PITCH | 4 |
| 4 | 233352-02 | SPROCKET * C1&C2 FOR LRG ROLLER CHN | 2 |
| 5 | 223784-04 | DETAIL-SPROCKET COVER 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 )

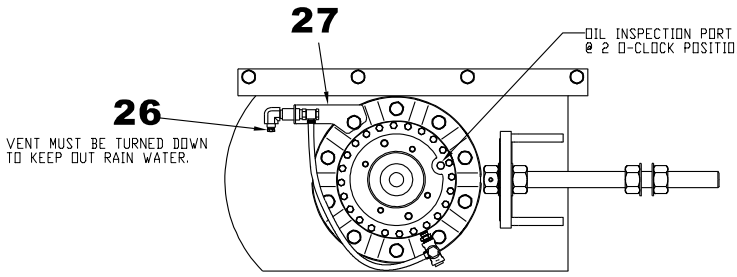



PROCEDURAL NOTE :

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

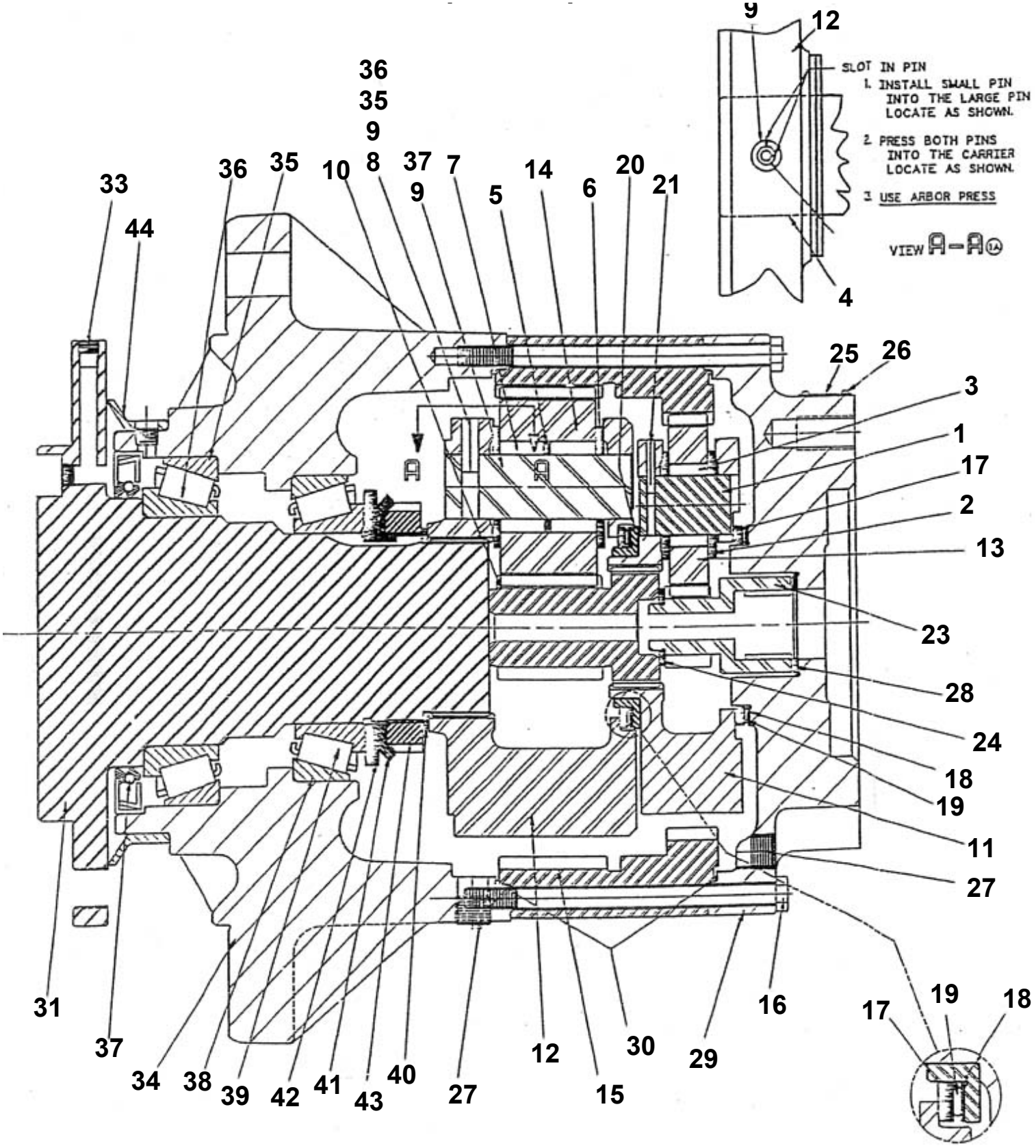



RIGHT SIDE OF MACHINE

# 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 | | | |

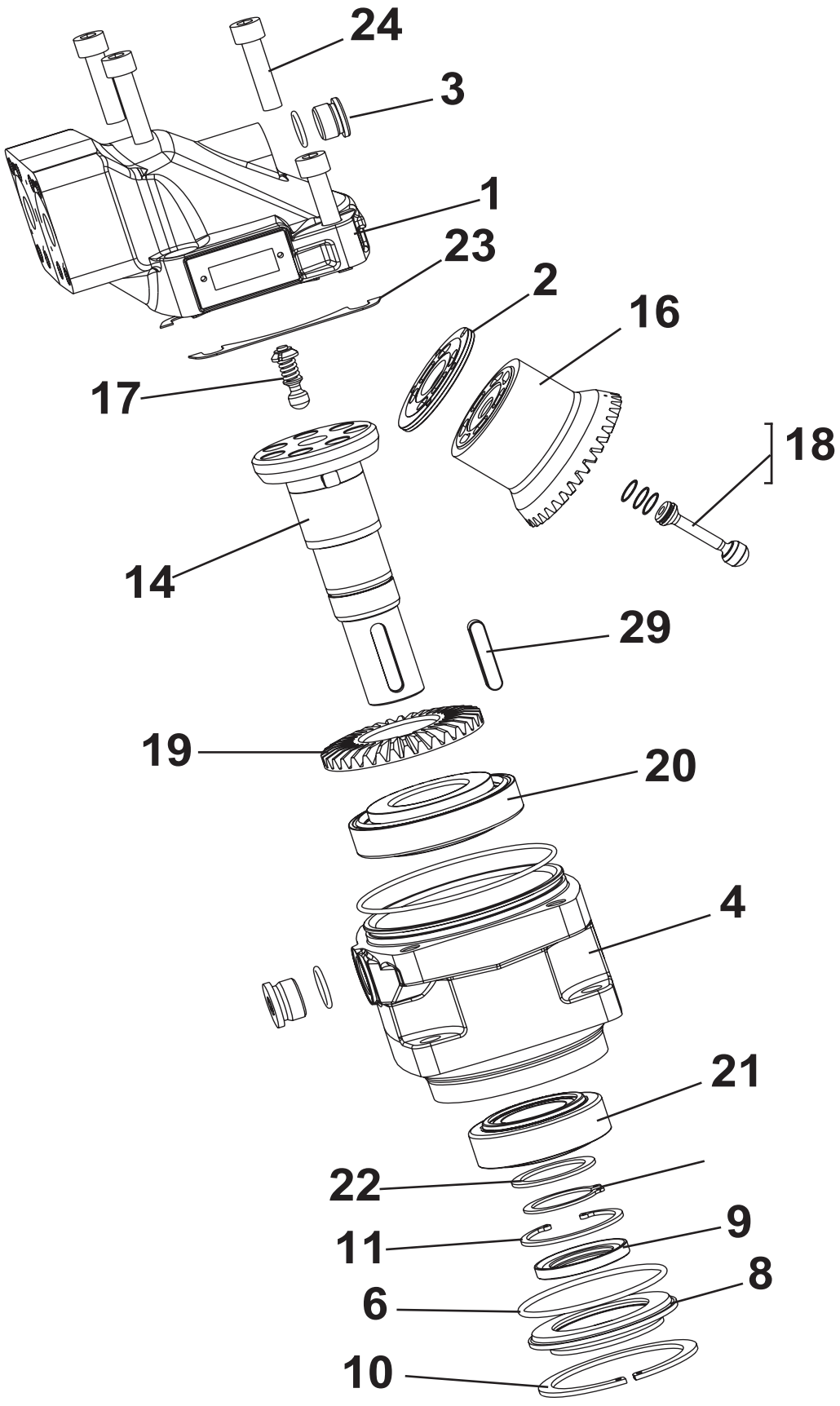
# C-1 & C-3 DRIVE GEARBOX
# ( 29E38 )



# 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 |

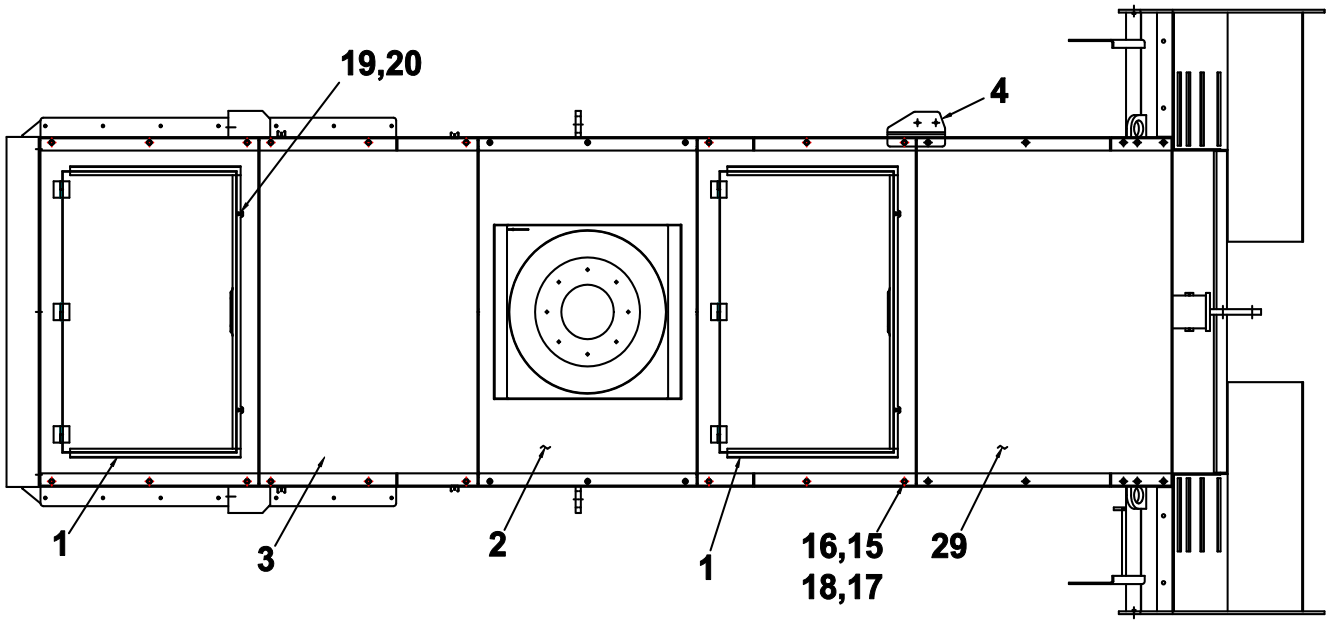
# C-1 CONVEYOR DRIVE MOTOR
## ( 142642-04 ) With two tappered roller bearings

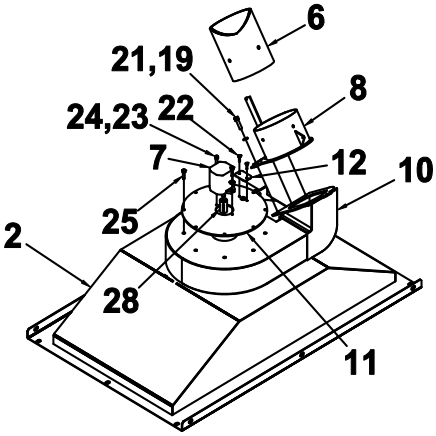


# C-1 CONVEYOR DRIVE MOTOR
# ( 142642-04 )

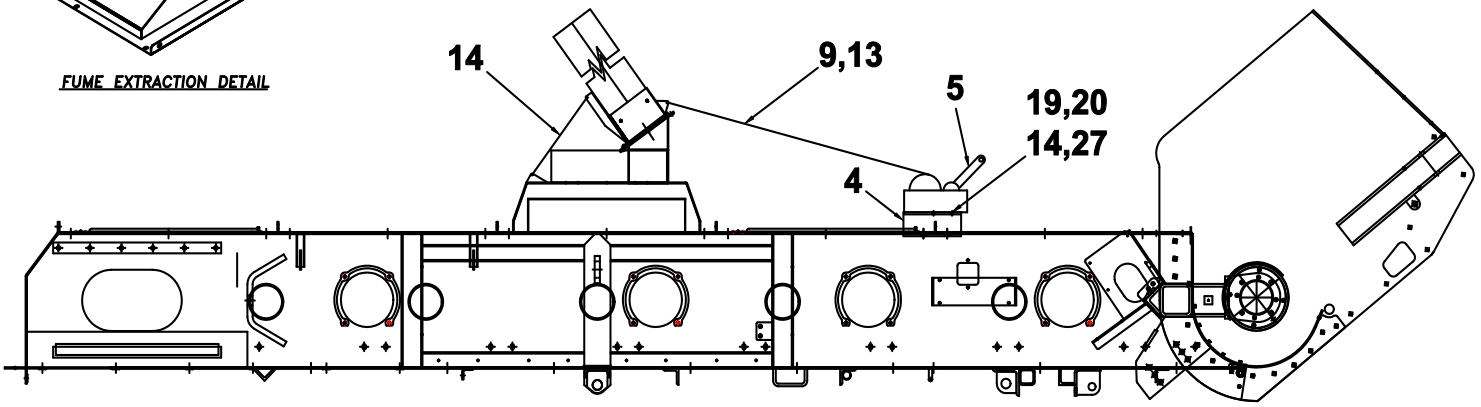
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 142642-04-C8 | BARREL HOUSING | 1 |
| 2 | 142642-04-C9 | VALVE PLATE | 1 |
| 3 | 142642-04-C10 | HEX SOCKET PLUG | 1 |
| 4 | 142642-04-C11 | BEARING HOUSING | 1 |
| 5 | 142642-04-C12 | O-RING | 1 |
| 6 | 142642-04-C13 | O-RING | 1 |
| 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 )



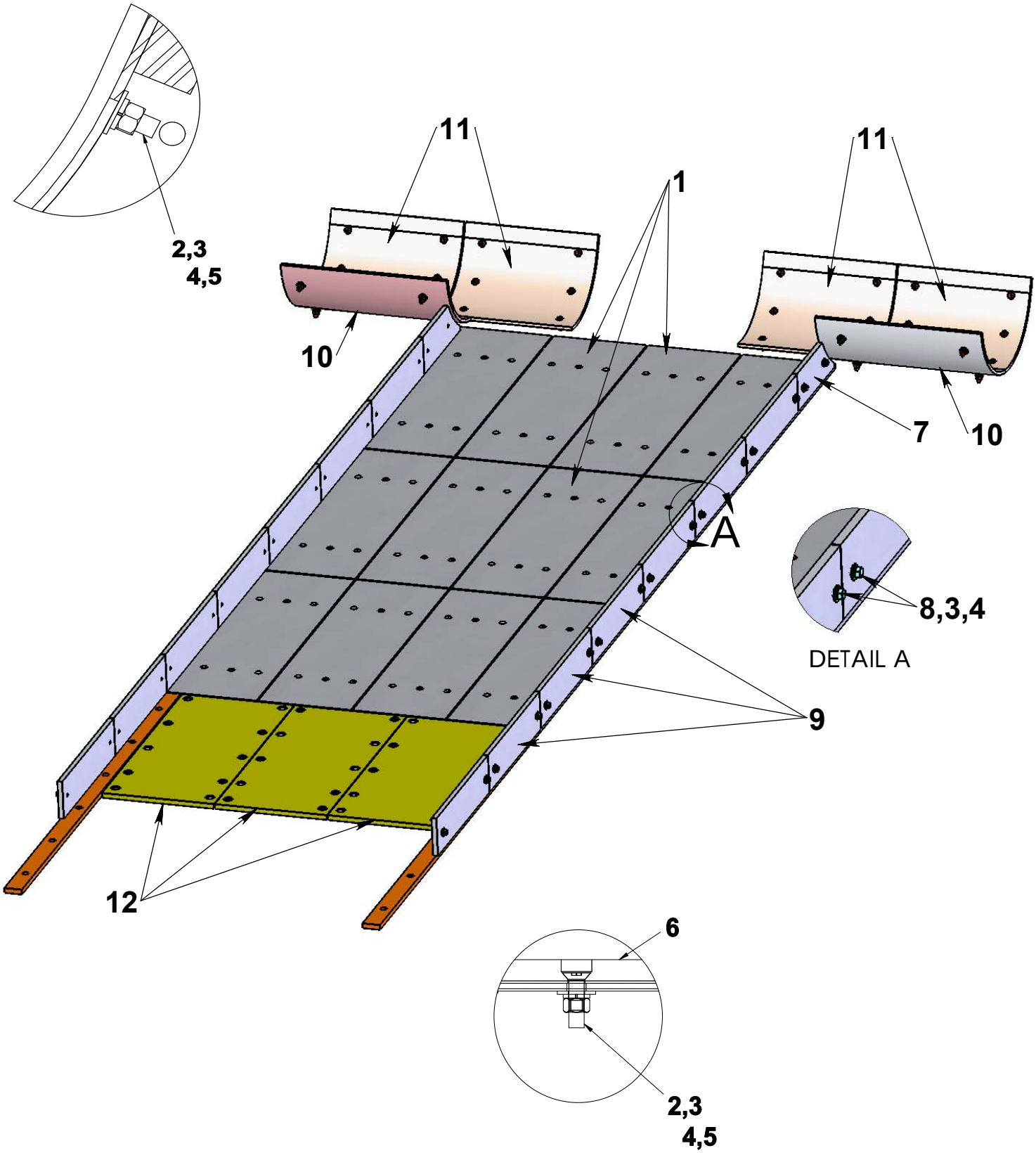

FUME EXTRACTION DETAIL



# 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 |

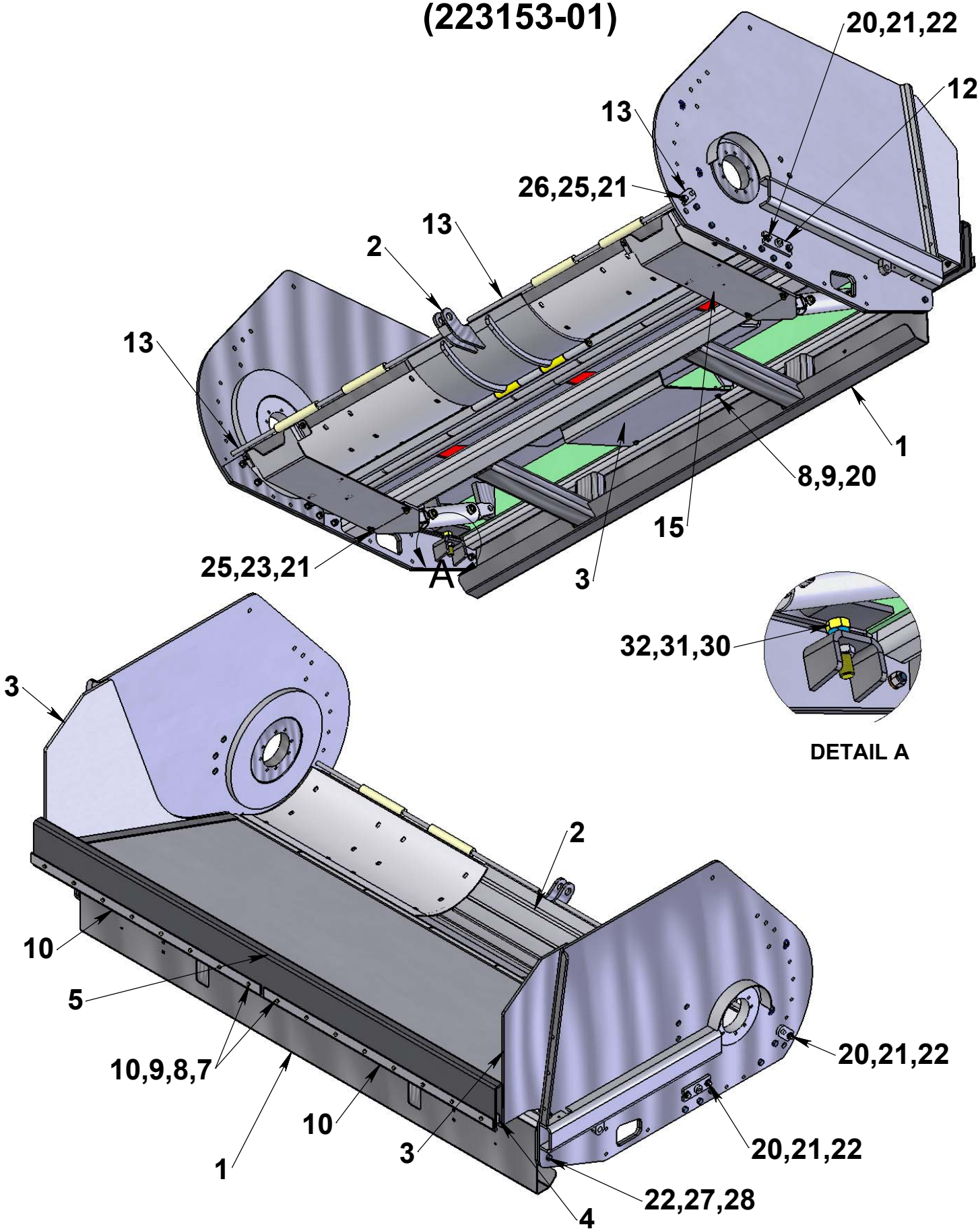
# ASSY-C1 WEAR PLATE-SB-2500D
# (226830-01)



# 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 |

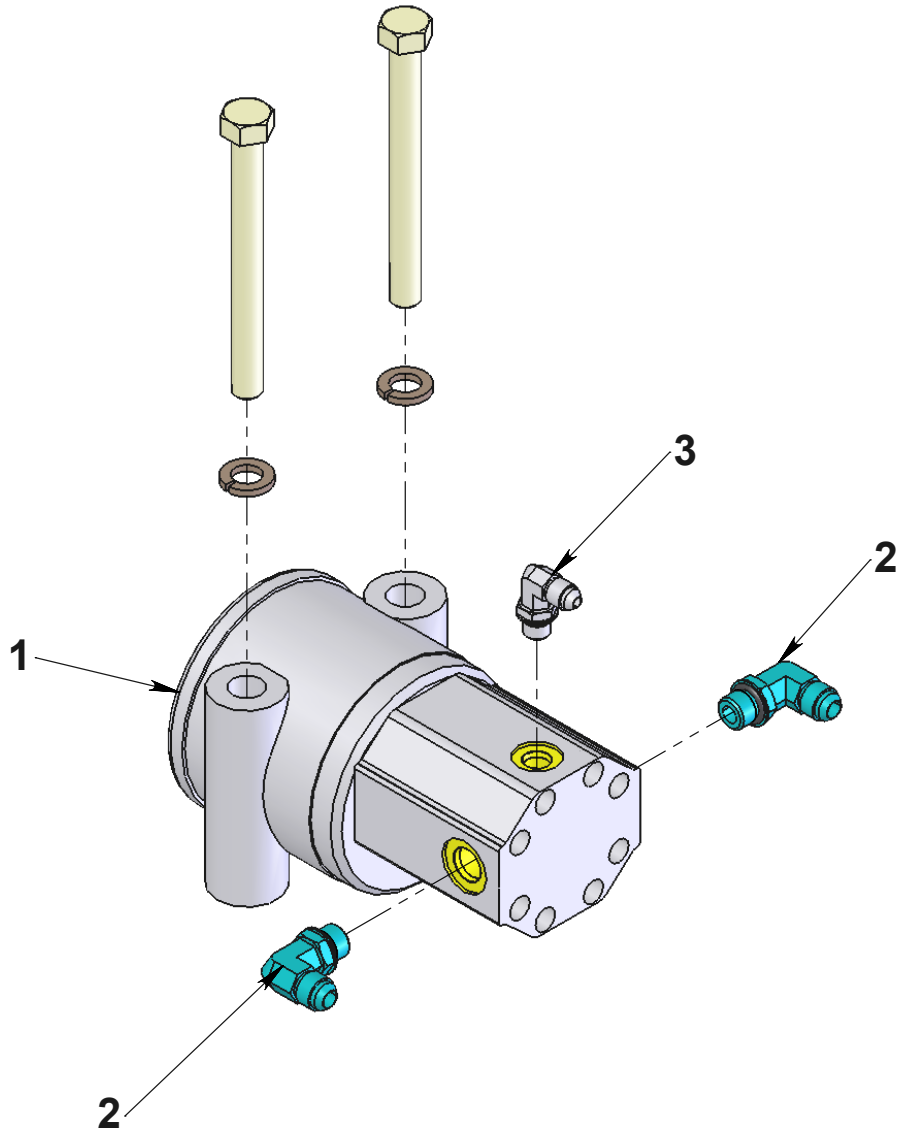
# ASSEMBLY - C1 DUMP HOPPER
# (223153-01)



# ASSEMBLY - C1 DUMP HOPPER
# ( 223153-01 )

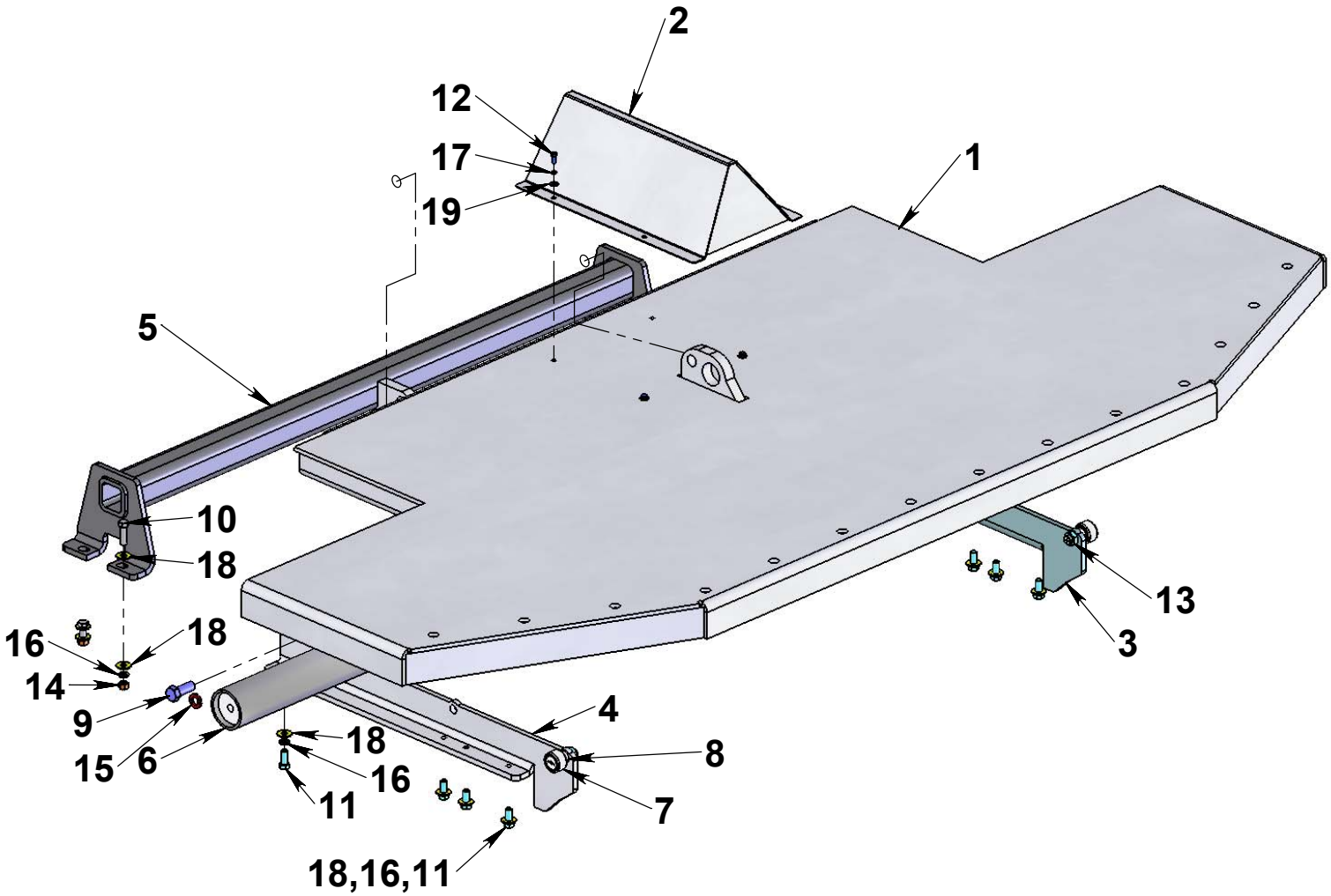
| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 223151-01 | WELDMENT - C1 HOPPER UNDERCARRIAGE | 1 |
| 2 | 207708-01 | WELDMENT, C-1 CLEANOUT DOOR | 1 |
| 3 | 223152-01 | WELDMENT-DUMP HOPPER | 1 |
| 4 | 143620-03 | FLASHNG.SUPPORT WLD.(C1 DUMP HOPPR) | 2 |
| 5 | 99218-02 | RUBBER FLASHING | 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)



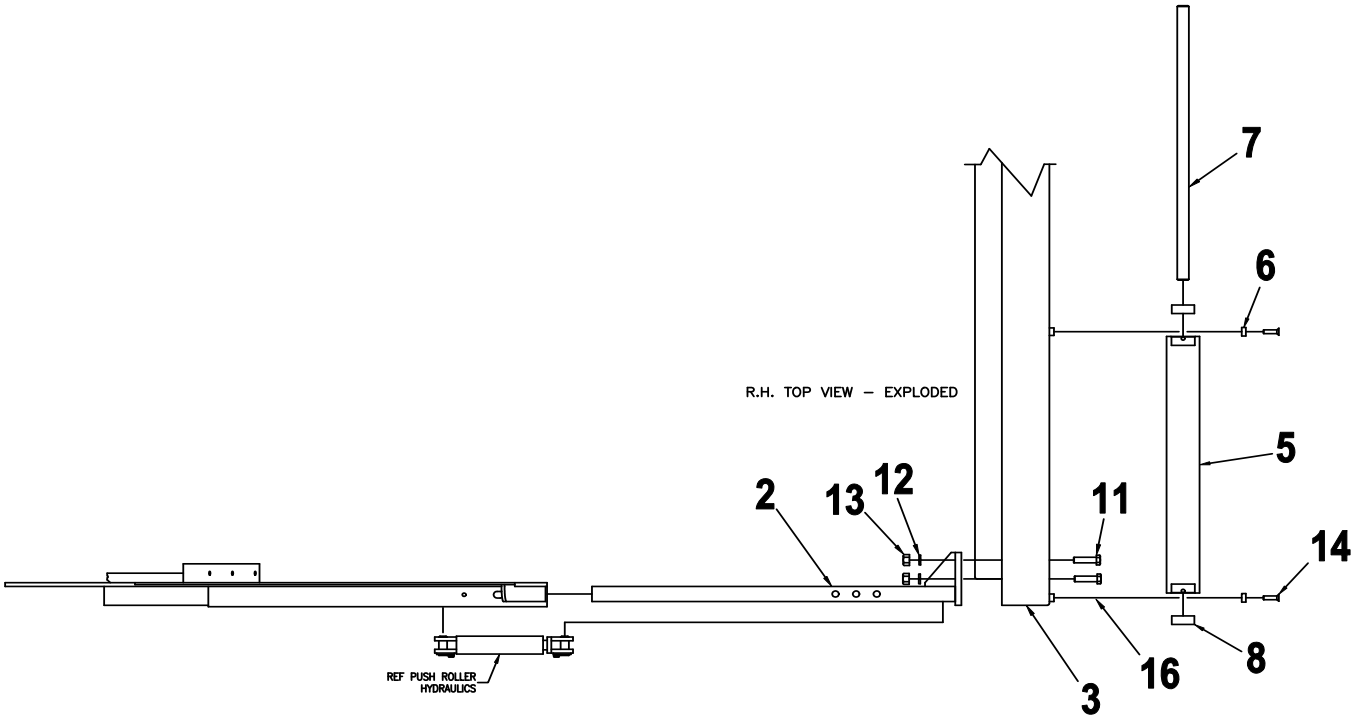

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 149125-04 | HYD.DRIVEN VIBRATOR 782 LB 9000 RPM | 1 |
| 2 | 83734-04 | FIT-ELBOW 90 DEG M W_NUT, WASHER, O-RING 6 JIC - 6 SAE | 2 |
| 3 | 83743-04 | ELBOW 90 DEG M W_NUT, WASHER, O-RING 4 JIC - 4 SAE | 1 |

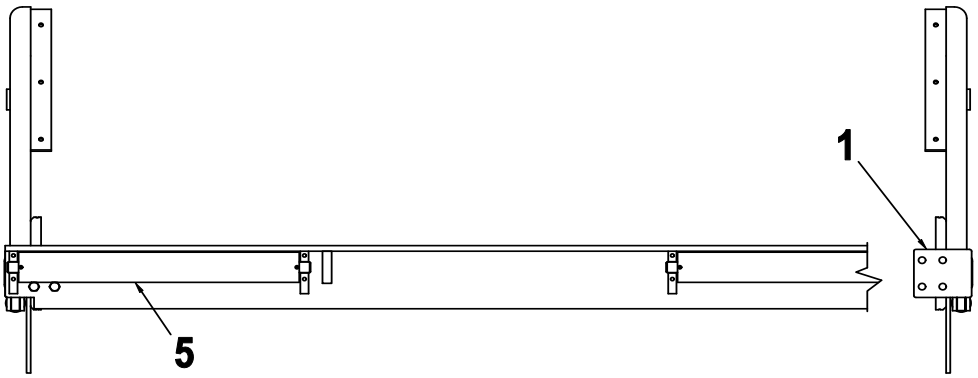
# ASSY-C1 BAFFLE
# (221906-01)

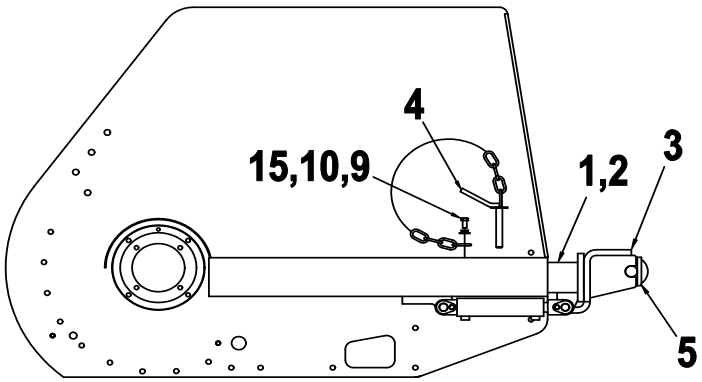



| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 1 | 221899-01 | WELDMENT-BAFFLE-SB-2500D | 1 |
| 2 | 141583-01 | WELDMENT, HYDRAULIC CYLINDER COVER | 1 |
| 3 | 210188-03 | DETAIL-LH BAFFLE GUIDE-SB-2500C | 1 |
| 4 | 210189-03 | DETAIL-RH BAFFLE GUIDE-SB-2500C | 1 |
| 5 | 210182-01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



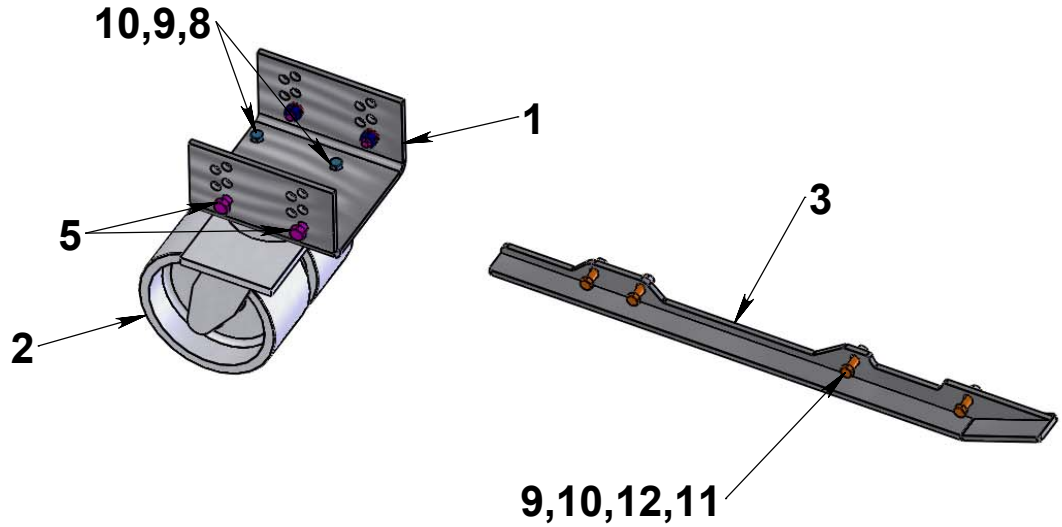



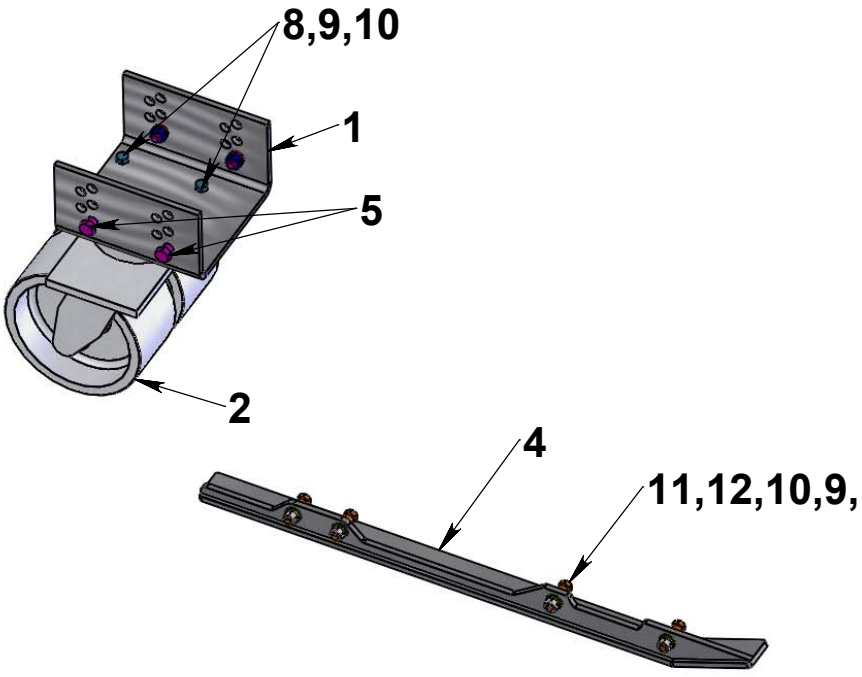



# HYDRAULIC PUSH ROLLER ASSEMBLY (212468-01)

| 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)



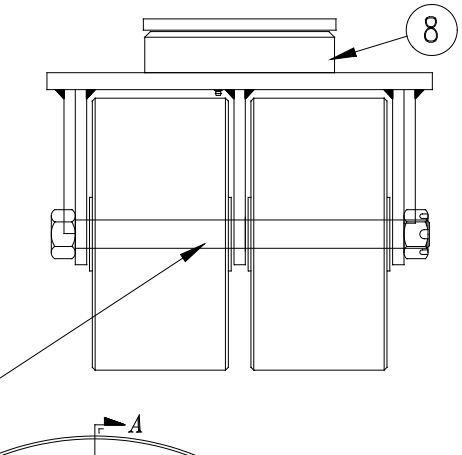



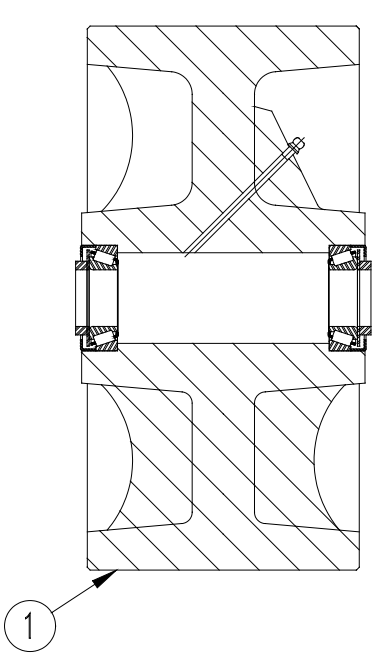
# SUB-ASSY-C1 CASTER & SKID RUNNER (148085-01)

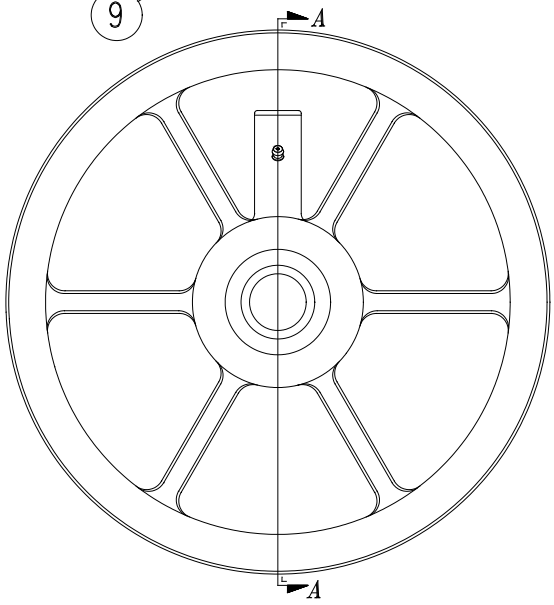
| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 142499-02 | ADJUSTABLE CASTER MOUNTING PLATE | 2 |
| 2 | 132001-04 | CASTER * SWIVEL W/CAST IRON WHEELS | 2 |
| 3 | 148096-01L | WELDMENT-LH SKID RUNNER-1500B | 1 |
| 4 | 148096-01R | WELDMENT-RH SKID RUNNER-1500B | 1 |
| 5 | 93189 | BOLT * 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

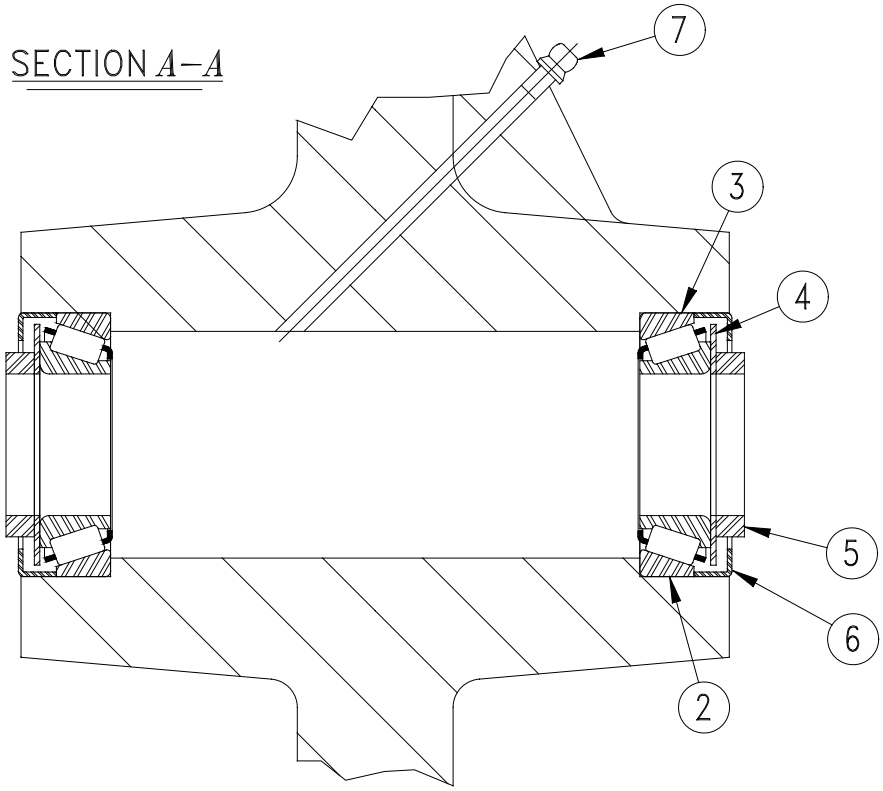
| ITEM | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | 132001-04-C7 | WHEEL ASSEMBLY |
| 2 | 2 | 132001-04-C3 | BEARING-TIMKEN CONE-LM67048 1-1/4 ID x 2-2 |
| 3 | 2 | 132001-04-C2 | BEARING-TIMKEN CUP-LM67010 1-1/4 ID x 2-2 |
| 4 | 2 | 132001-04-C4 | 53-LM67048 FLINGER WASHER |
| 5 | 2 | 132001-04-C5 | 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 |



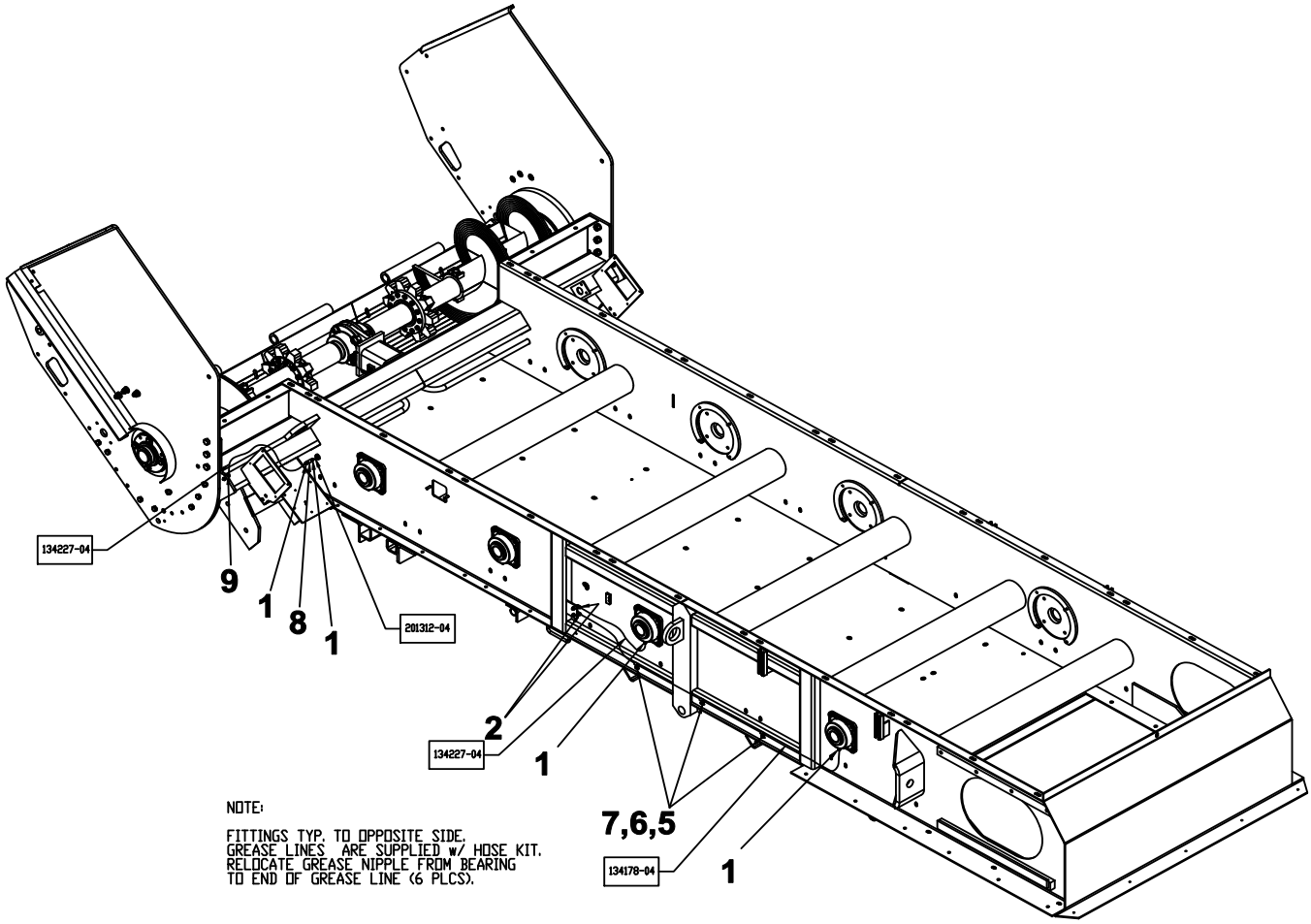



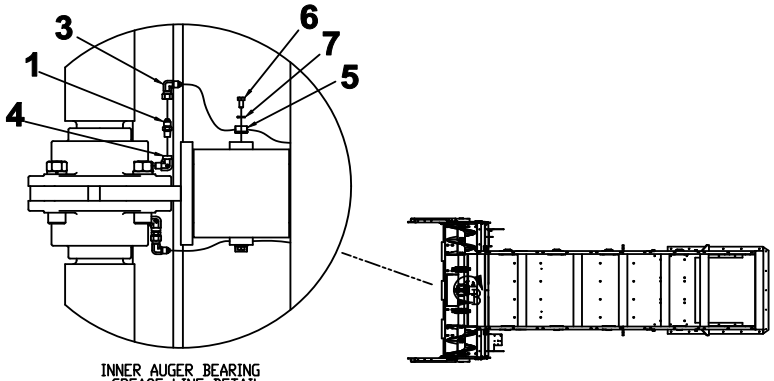




SECTION *A-A*



# C-1 GREASELINE ASSEMBLY
# ( 200733-01 )

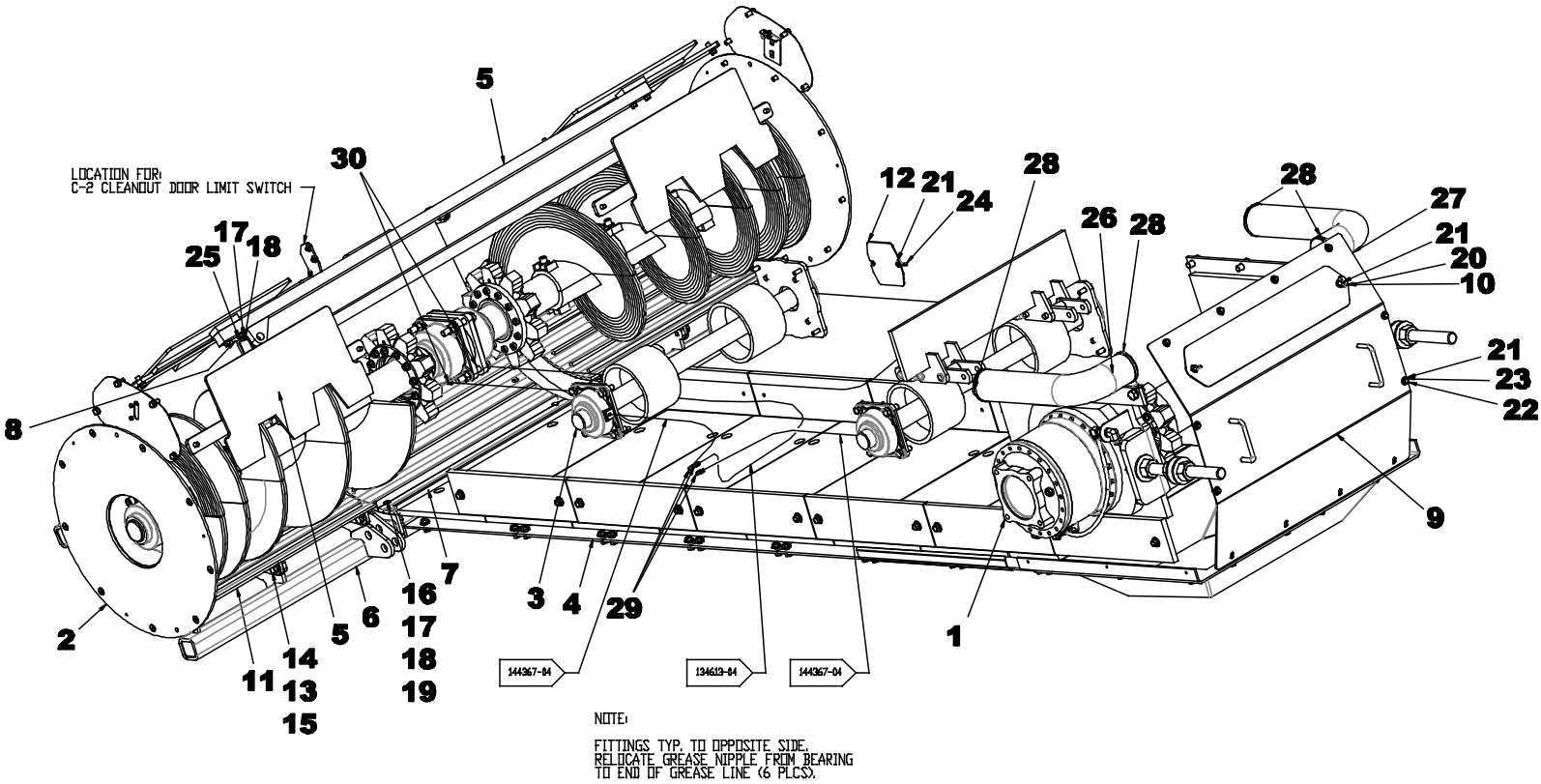


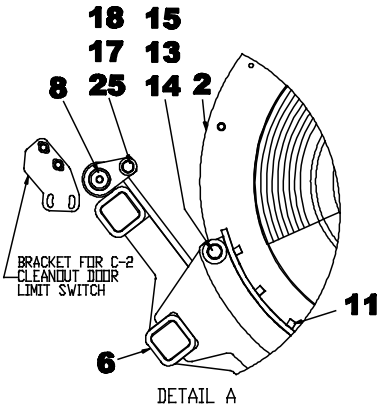




INNER AUGER BEARING
GREASE LINE DETAIL
DETAIL B

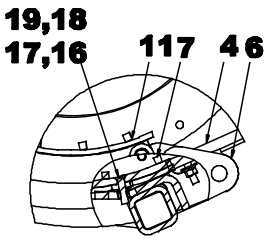
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 83742-04 | FIT - CONNECTOR 4 JIC - 1/8" NPT M. | 10 |
| 2 | 84560-04 | FIT - ELBOW 4 JIC - 1/8" NPT 90° MALE | 4 |
| 3 | 93043 | FIT - ELBOW 4 JIC SWIVEL 90° | 2 |
| 4 | 23J52 | FIT - ELBOW 1/8" NPT M X 1/8" NPTF 90° | 2 |
| 5 | 20K33 | 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

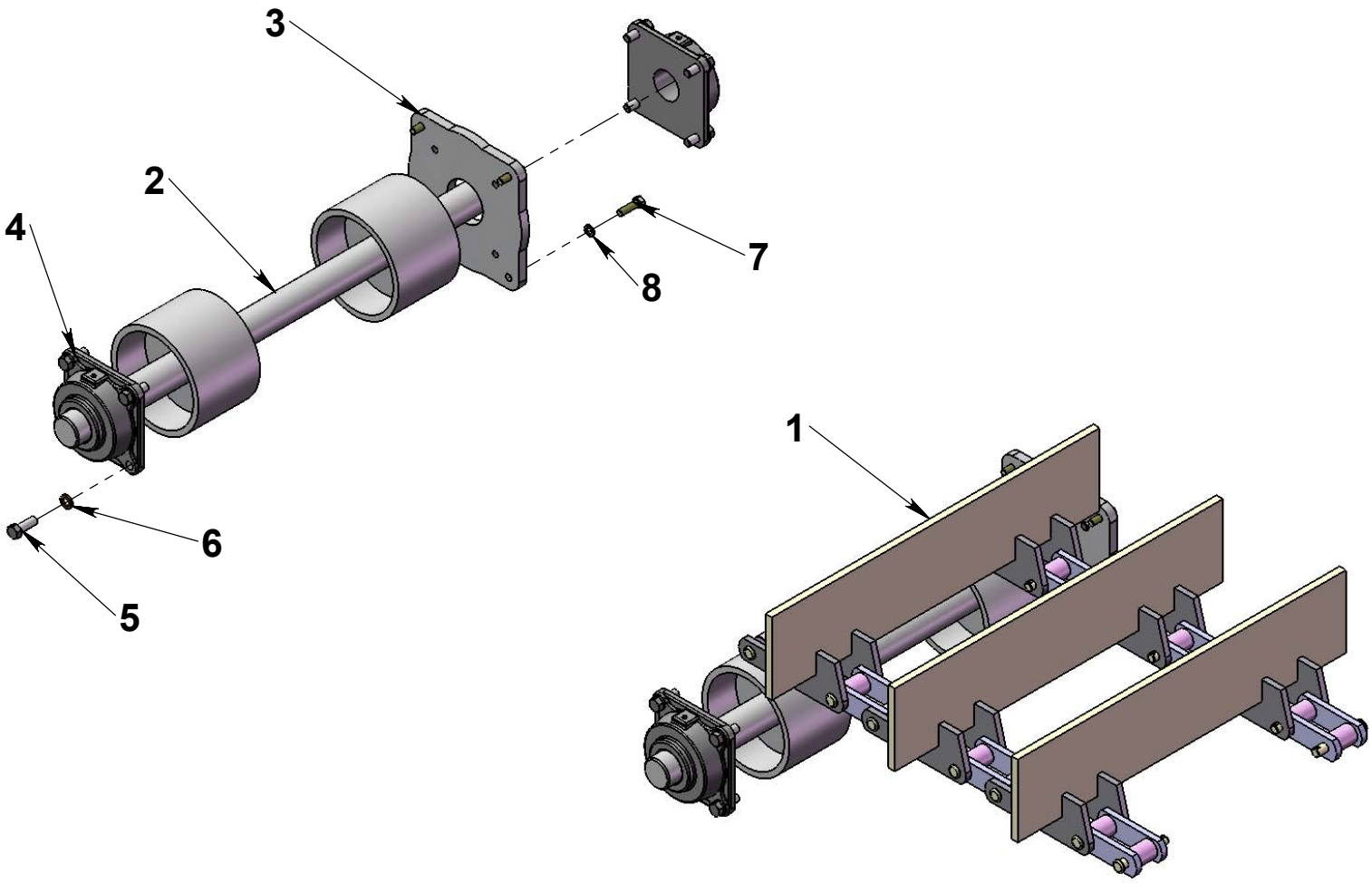


DETAIL B

# 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 |

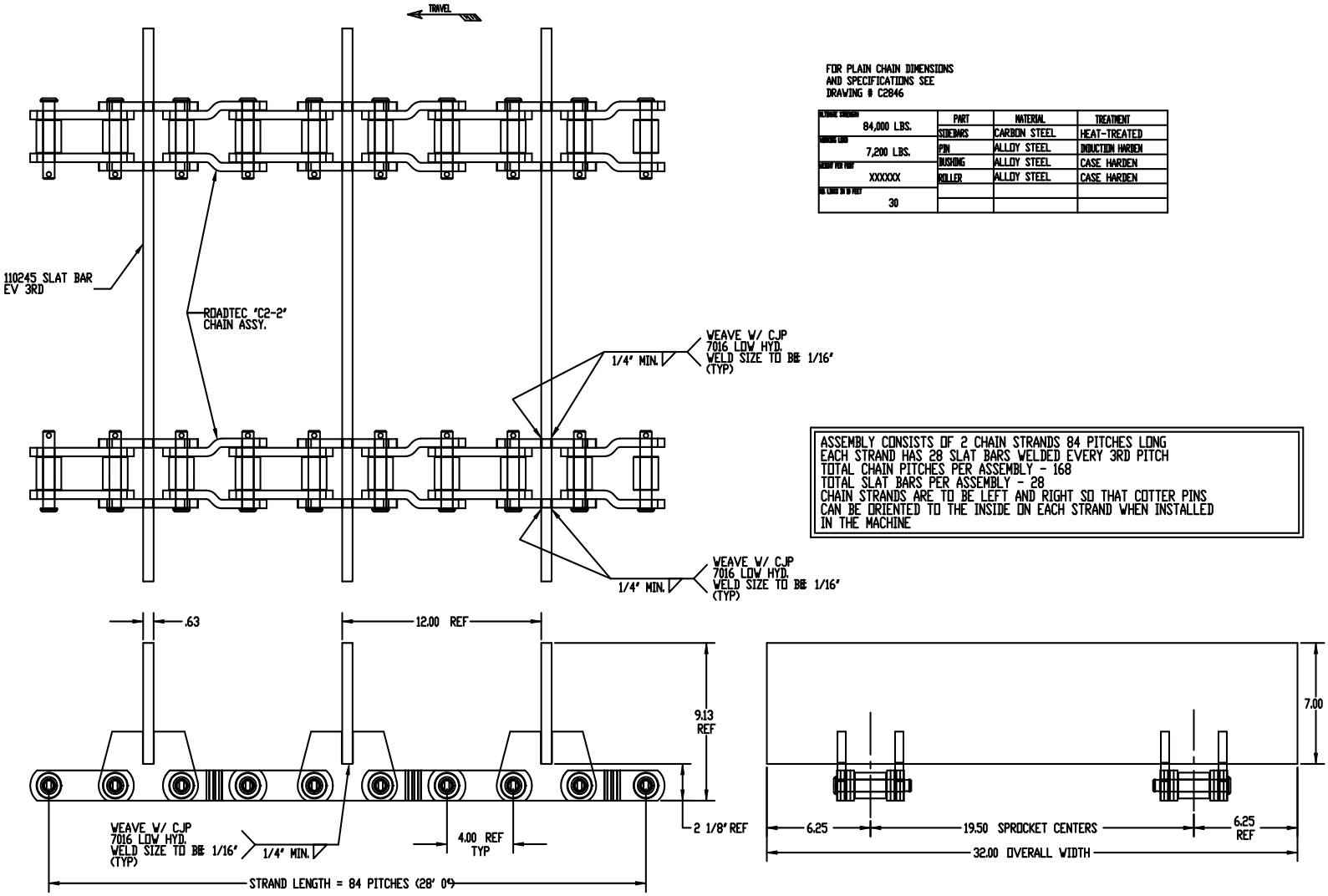
# ASSEMBLY-C2 CHAIN & IDLER
# (223297-01)



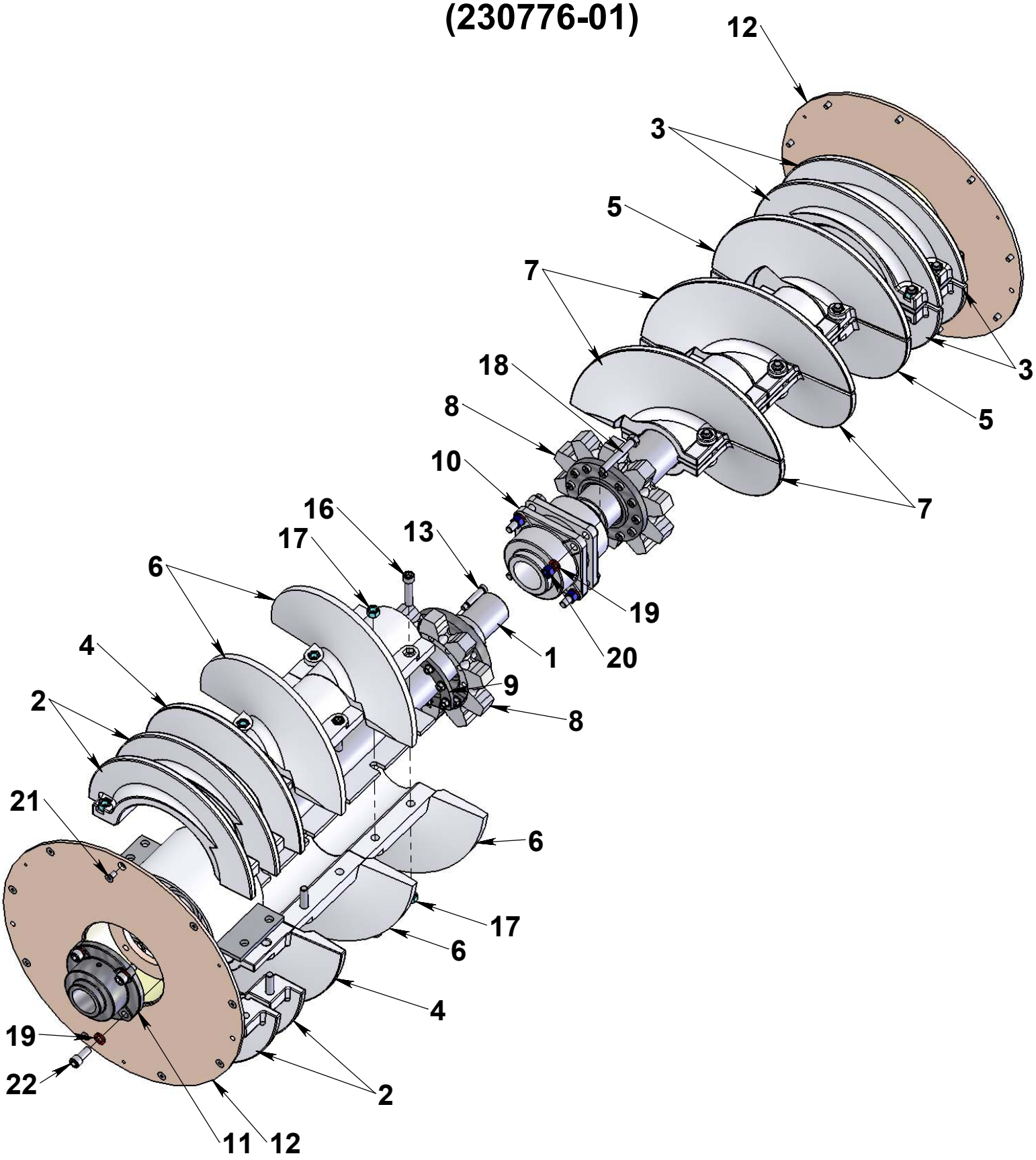

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 223338-02 | ASSEMBLY-C2 CONVEYOR CHAIN - 2500D | 1 |
| 2 | 223418-01 | WELDMENT-C2 IDLER SHAFT | 2 |
| 3 | 99364-03 | BEARING PLATE | 2 |
| 4 | 88993-04 | BEARING * 4 BOLT FLANGE | 4 |
| 5 | 89143 | BOLT * HEX 5/8-11 UNC X 1 3/4" LG. | 16 |
| 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 | | | |



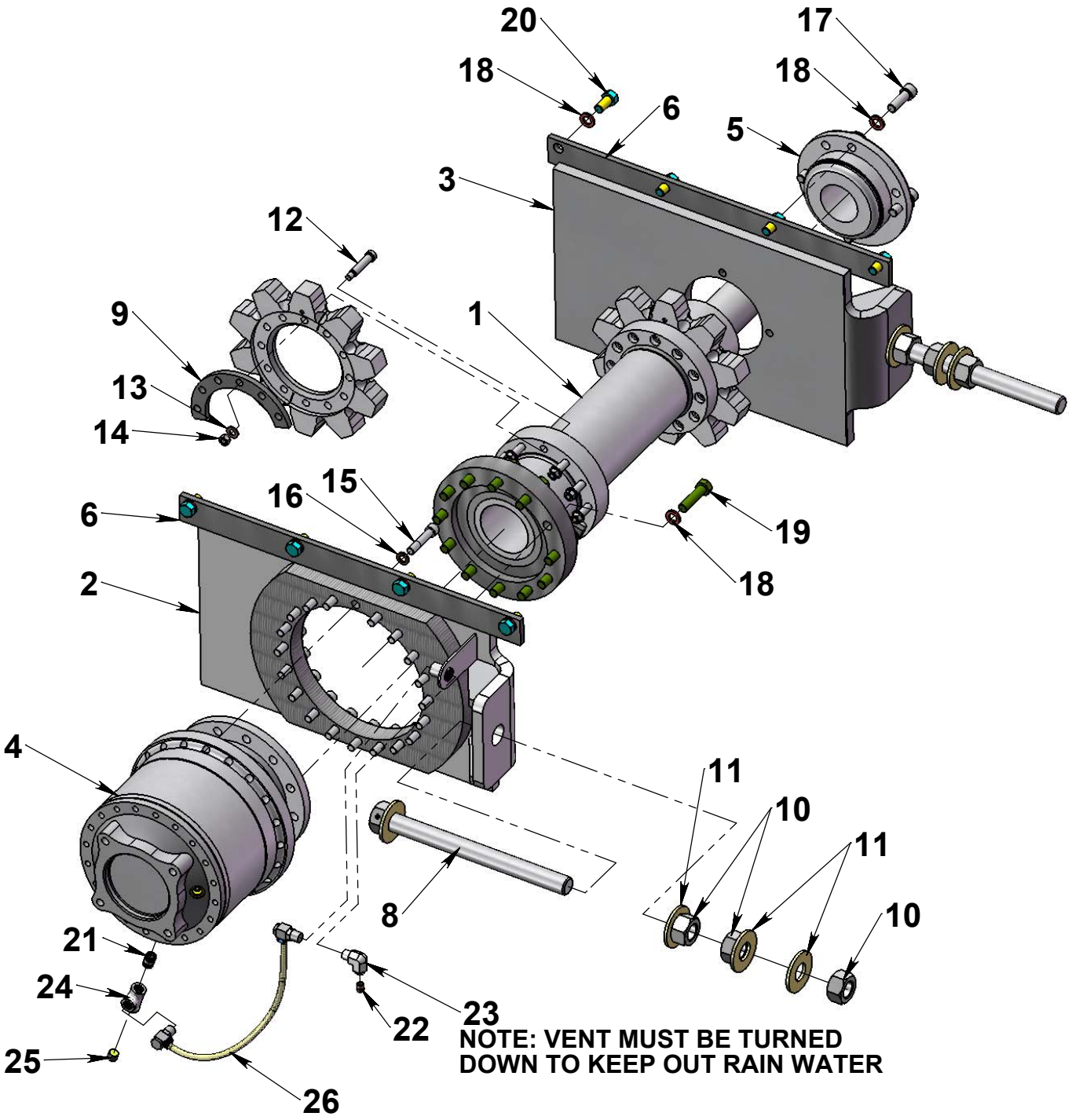
# ASSEMBLY-C2 FOOT SHAFT
# (230776-01)



# 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 |

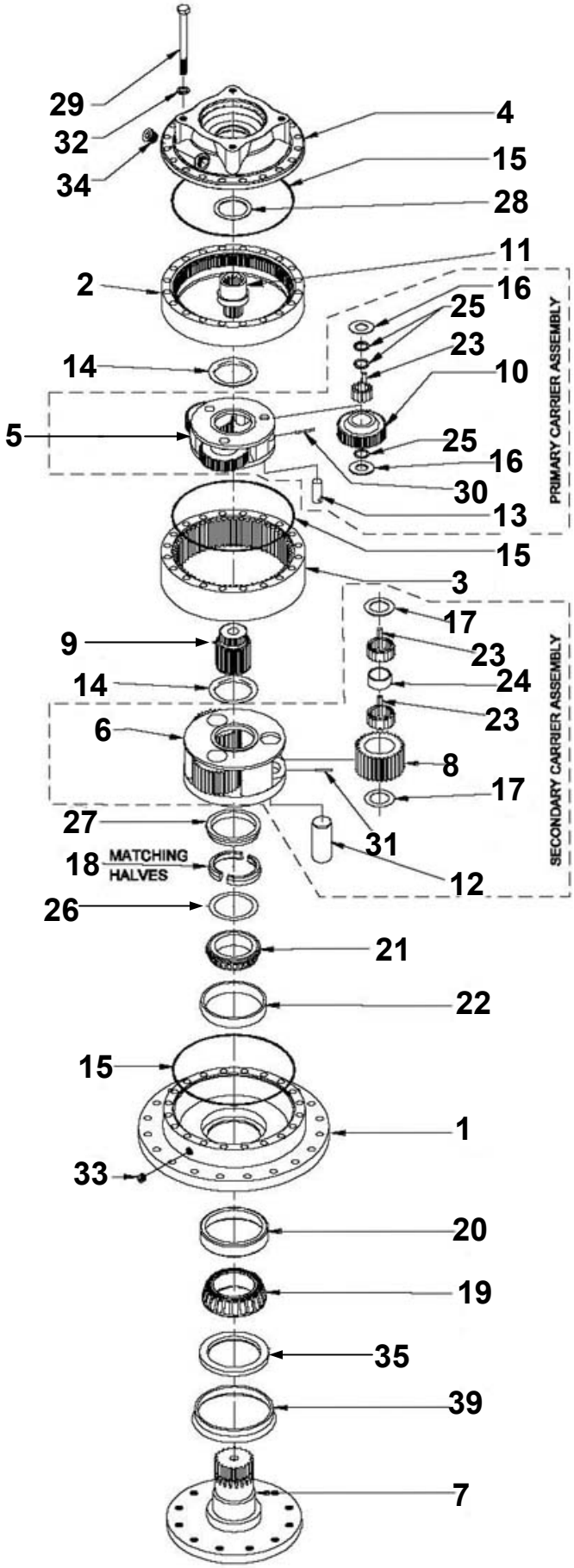
# ASSEMBLY-C2 HEADSHAFT & TAKE-UP (235544-01)



# 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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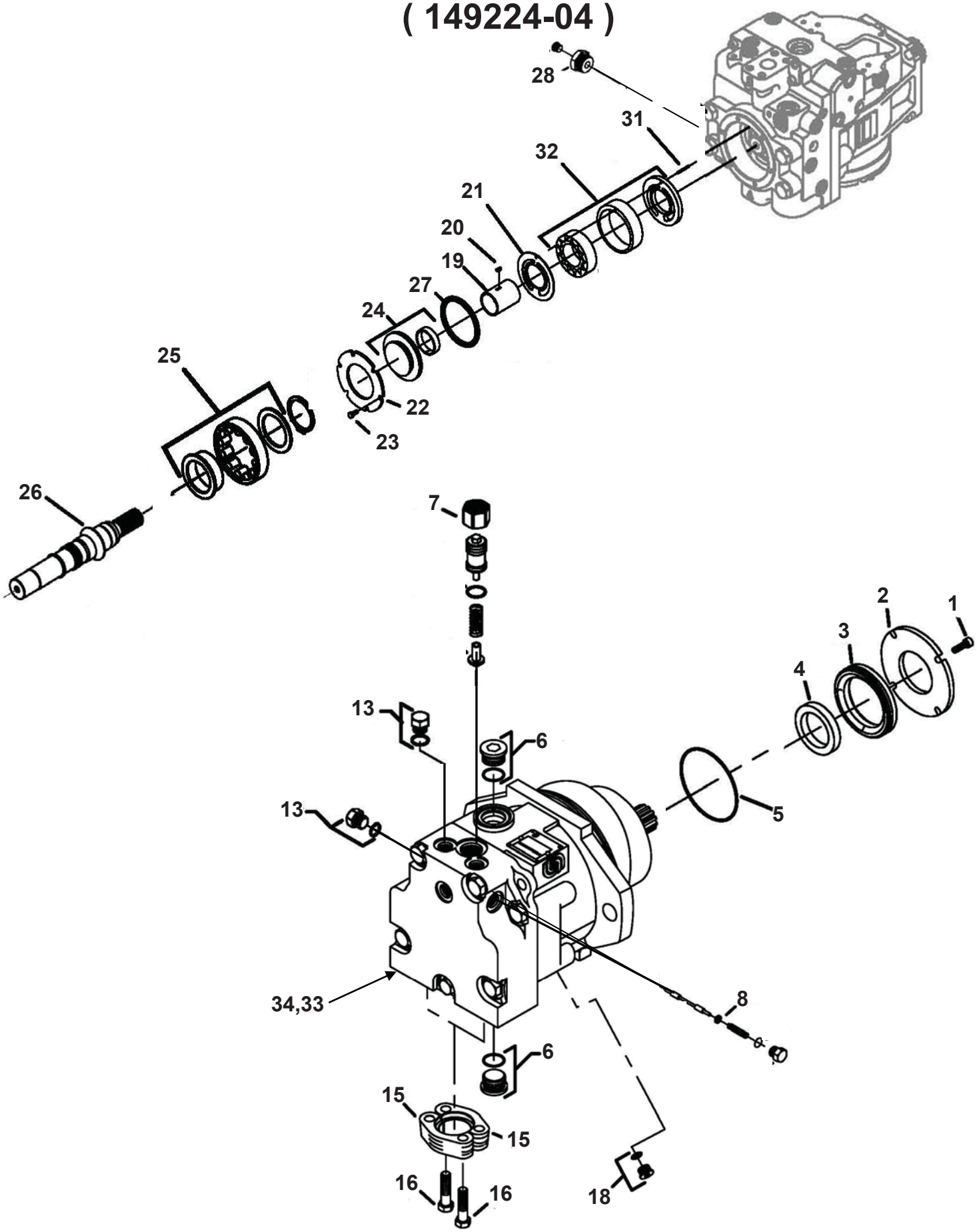
# C-2 DRIVE GEARBOX
# ( 203739-01 )

| 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 )

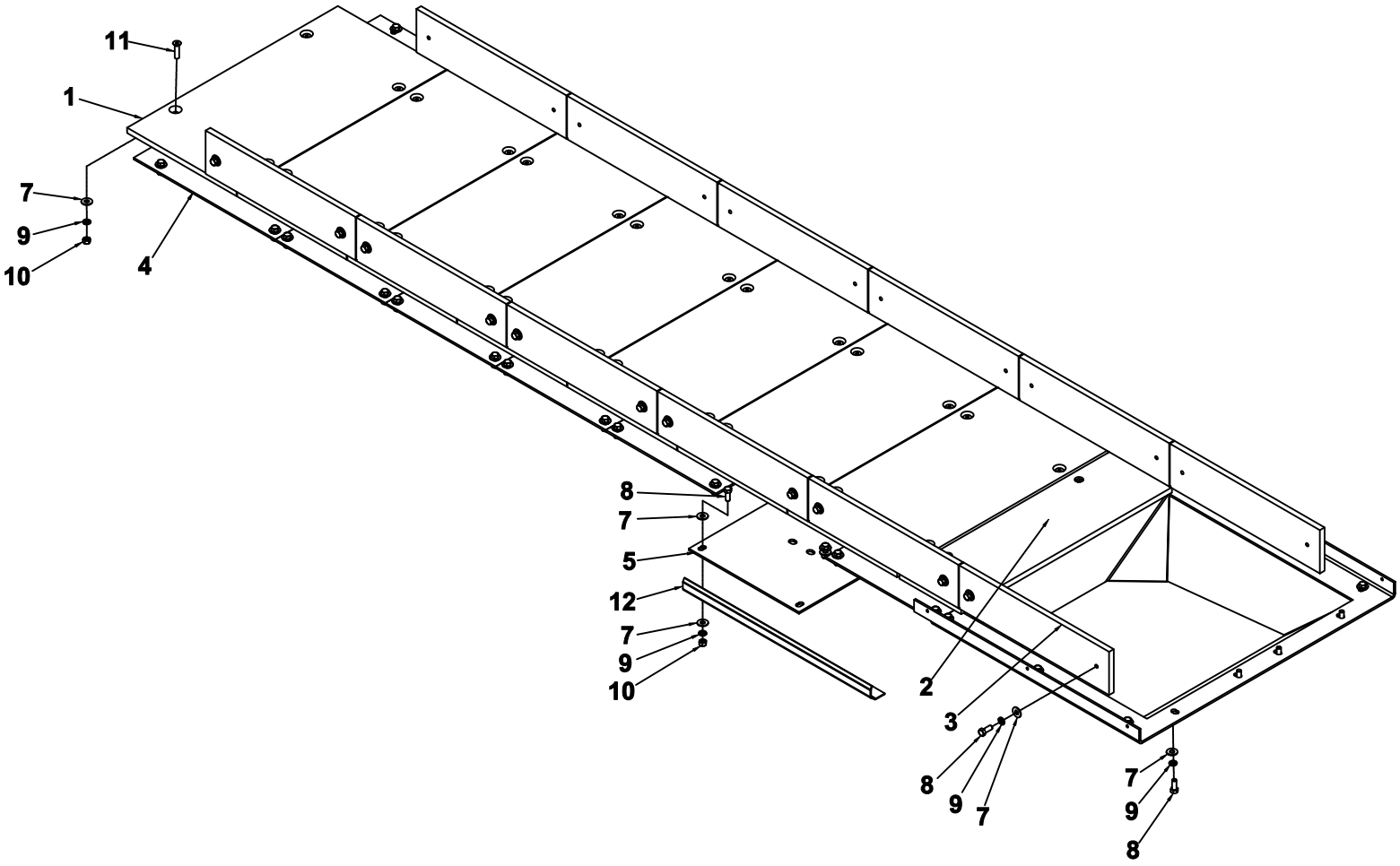


# C-2 DRIVE MOTOR
# (149224-04)

| 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 | | | |

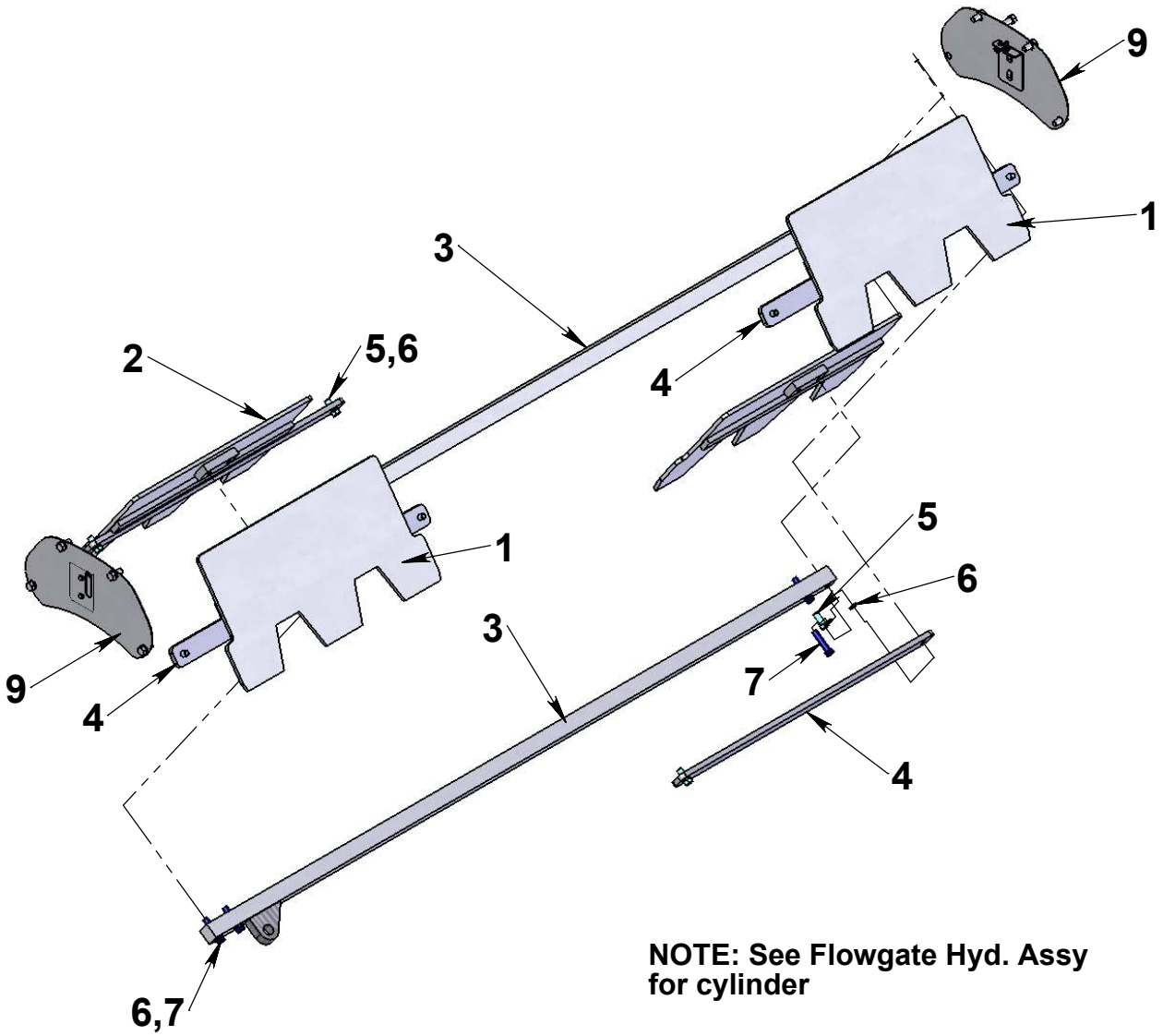
CODE: 90M130-NC-0-N-8-N-O-F1-W-00-EEA-00-00-53-

# 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)

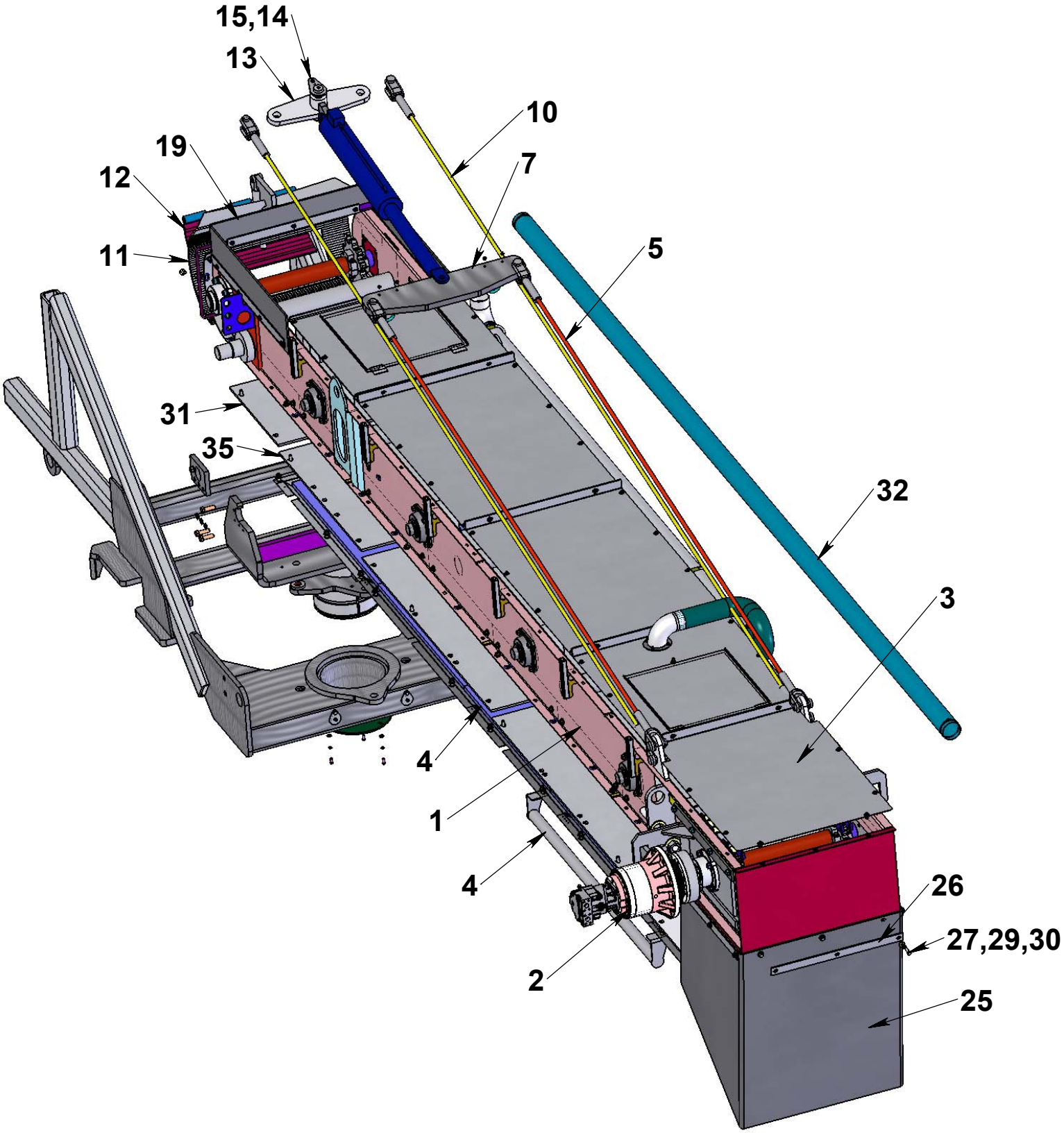



**NOTE: See Flowgate Hyd. Assy for cylinder**

| 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 |

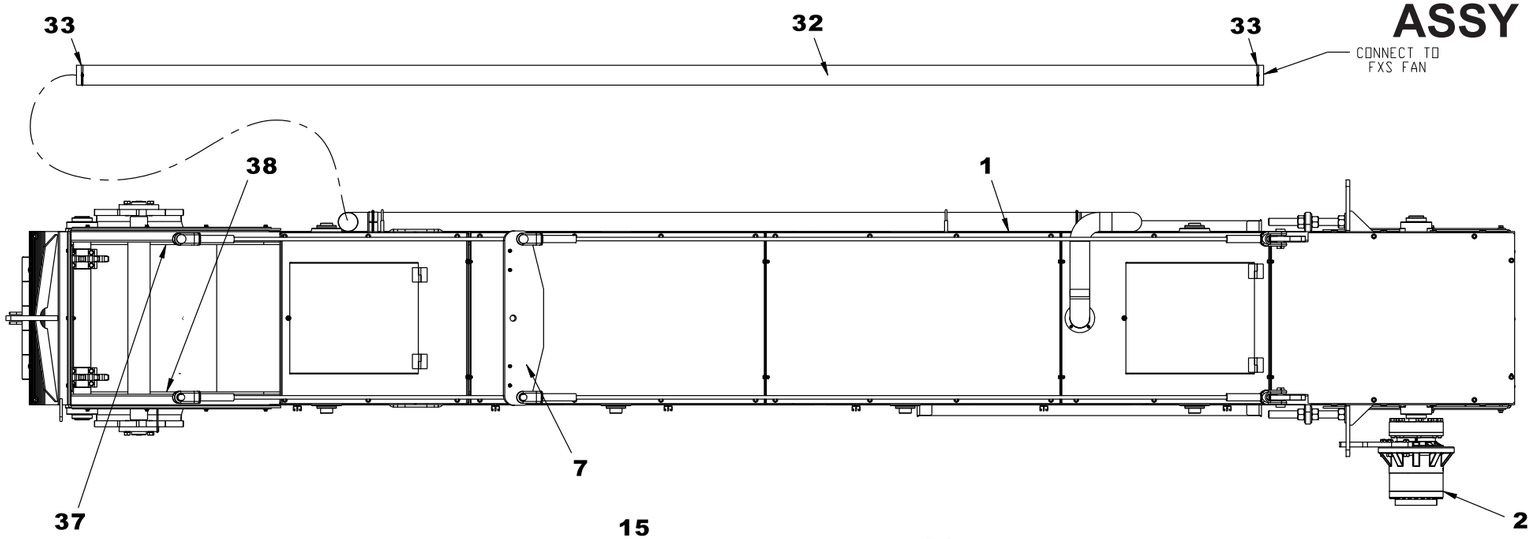
# ASSY-C3 CONVEYOR SB-2500
# (223787-01)

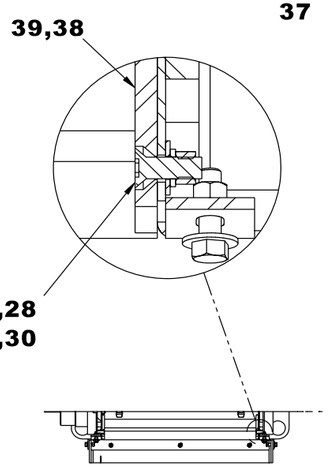
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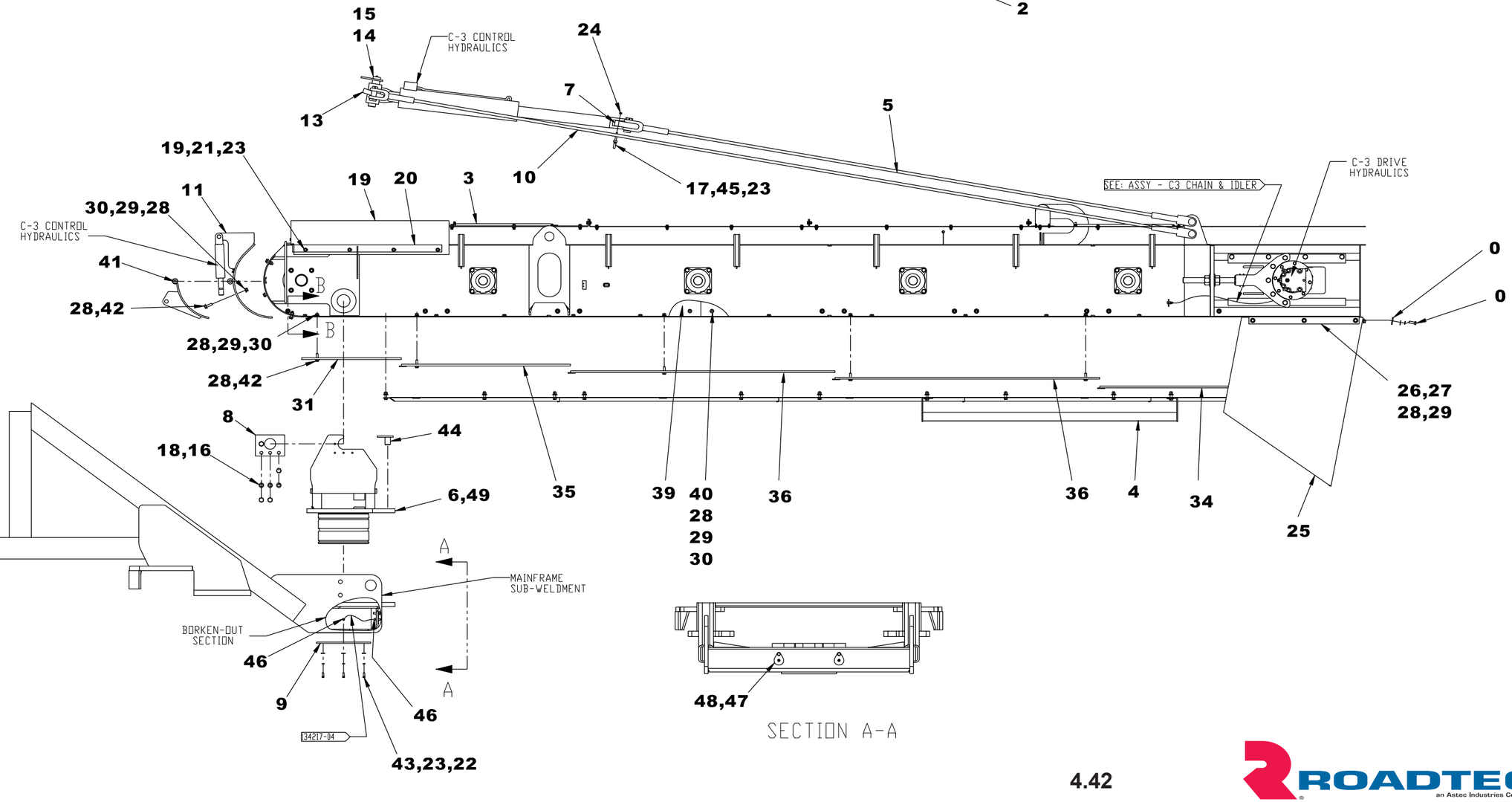
PREVIOUS PAGE

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




SECTION B-B







SECTION A-A



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# C-3 CONVEYOR ASSEMBLY
# ( 223787-01)

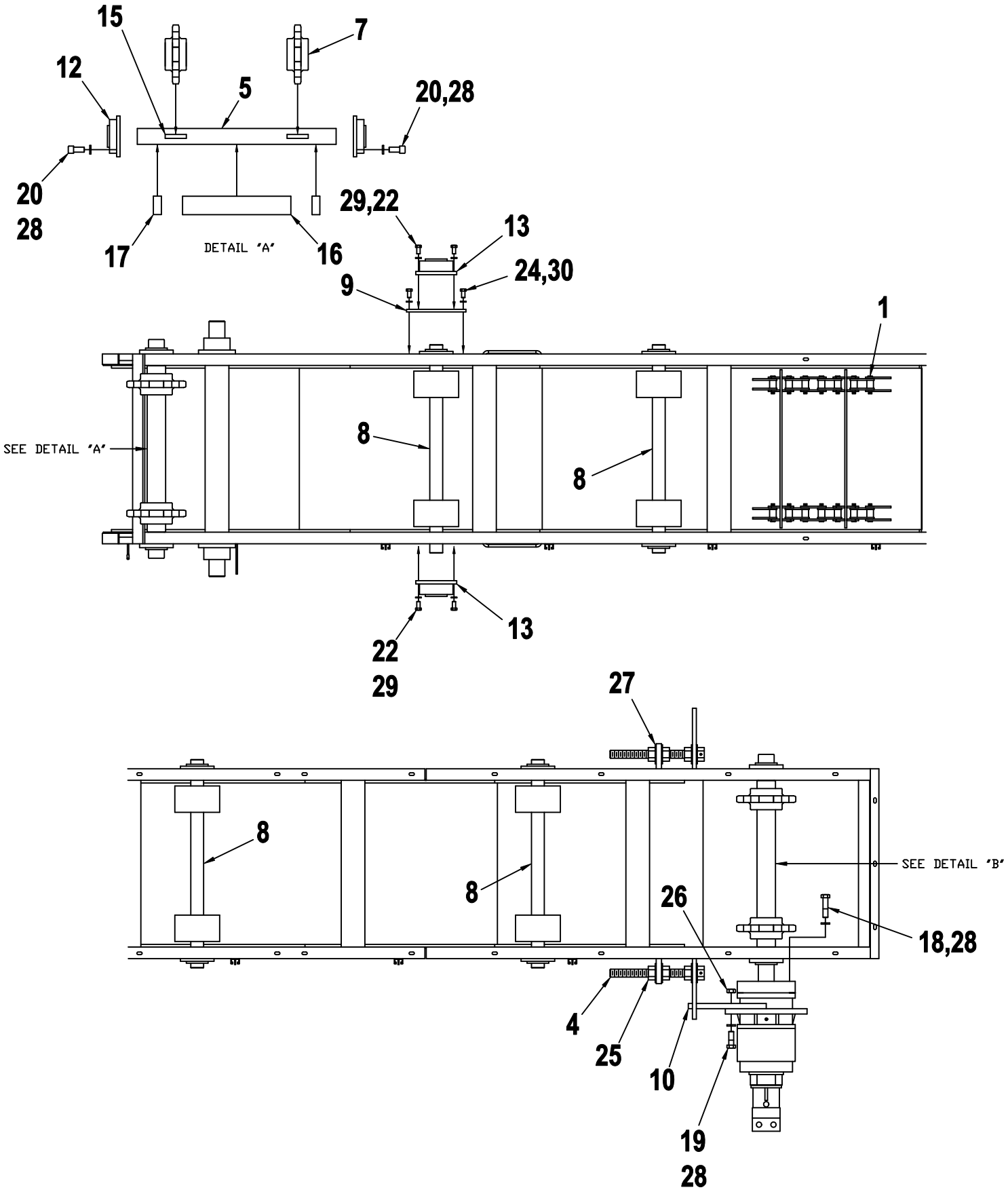
| ITEM # | PART # | DESCRIPTION | Default/ QTY |
|---|---|---|---|
| 1 | 222694-01 | WLDT-C3 CONVEYOR | 1 |
| 2 | 223788-01 | C-3 CHAIN & IDLER SUB ASSEMBLY | 1 |
| 3 | 214493-01 | ASSY-C3 TOP COVER | 1 |
| 4 | 214690-01 | ASSY-INSULATION PANEL & TRUCK RAIL | 1 |
| 5 | 213523-04 | CABLE - C3 LIFT 155-3/4" 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 |



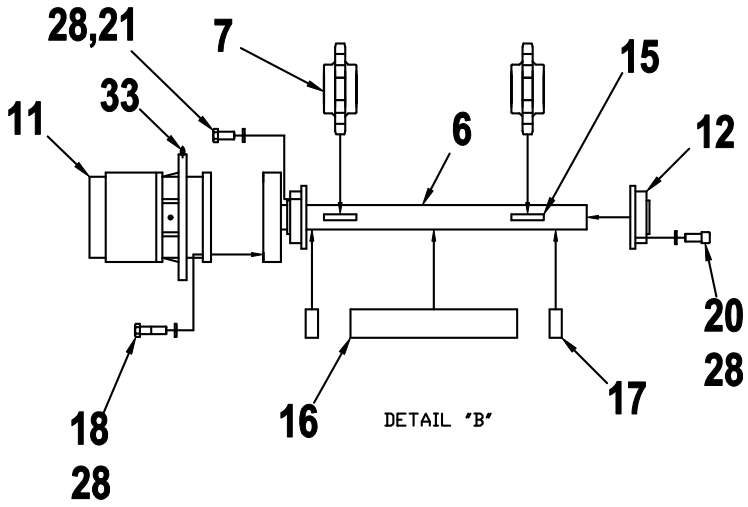
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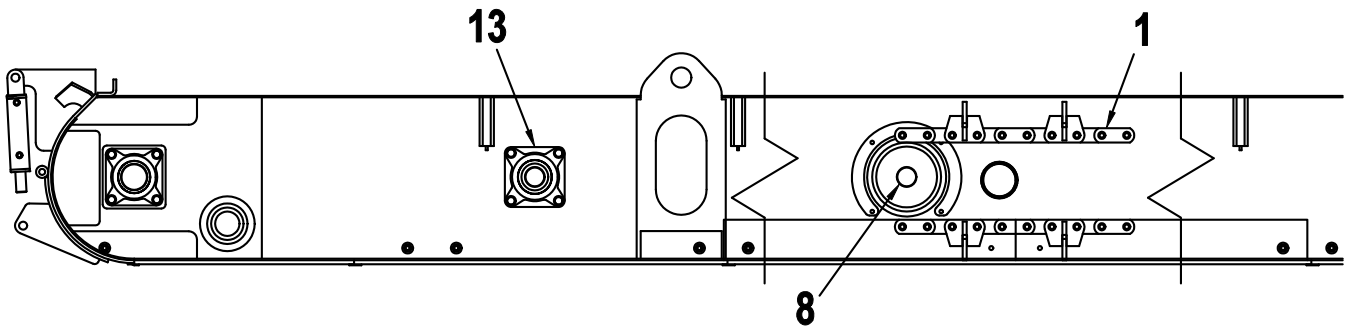
# C-3 CHAIN & IDLER ASSEMBLY
# ( 223788-01)

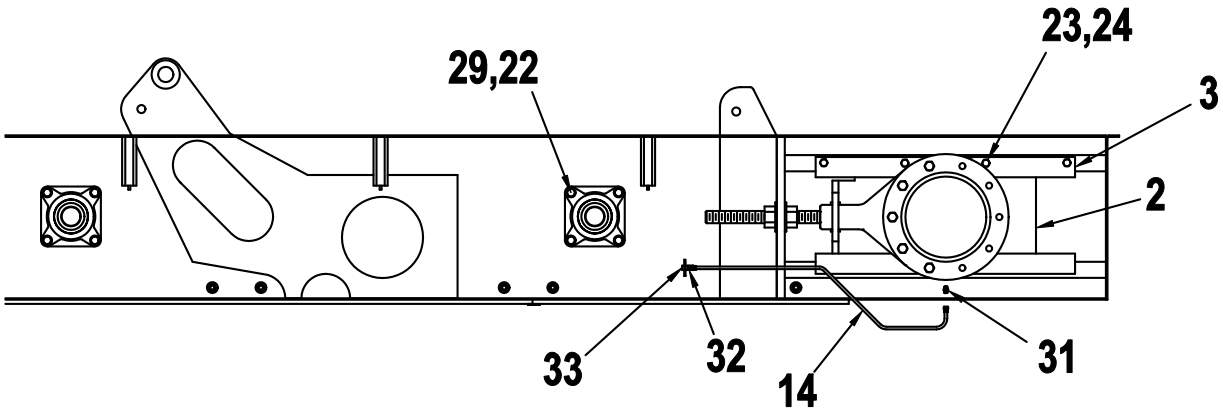
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# C-3 CHAIN & IDLER ASSEMBLY
# ( 223788-01)



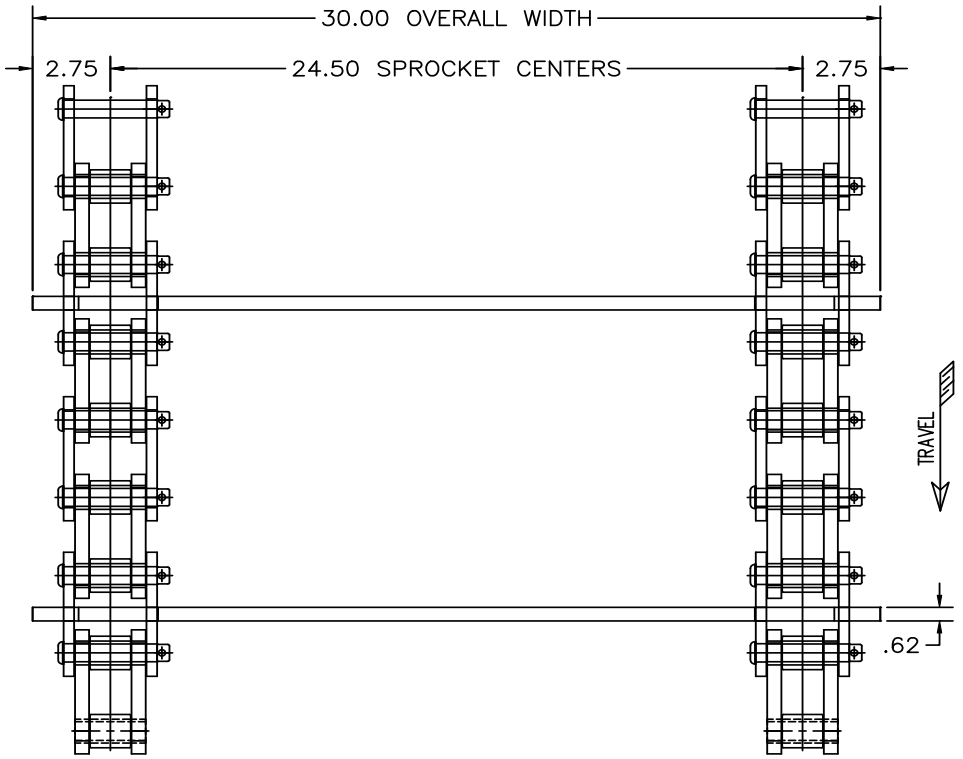



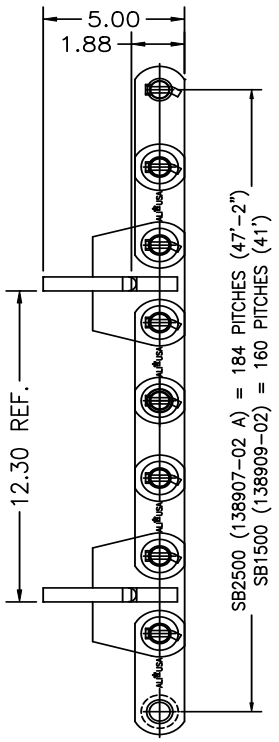
# C-3 CHAIN & IDLER ASSEMBLY
# ( 223788-01)

| 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 | | | |

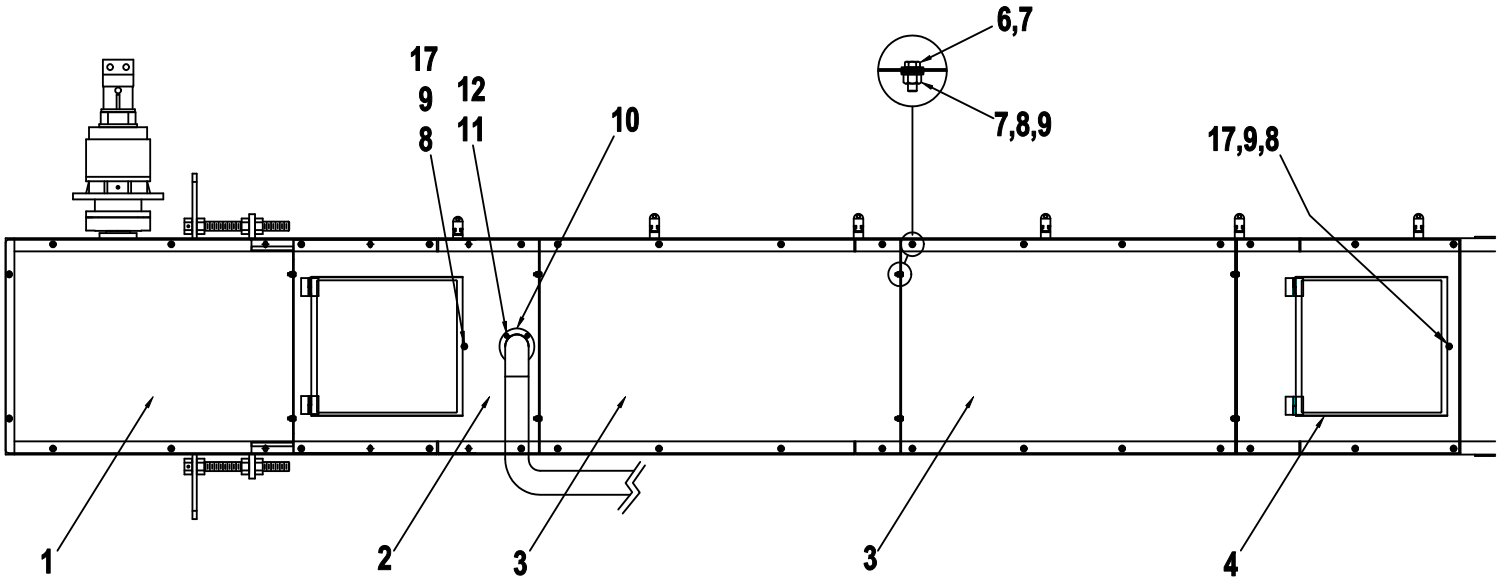


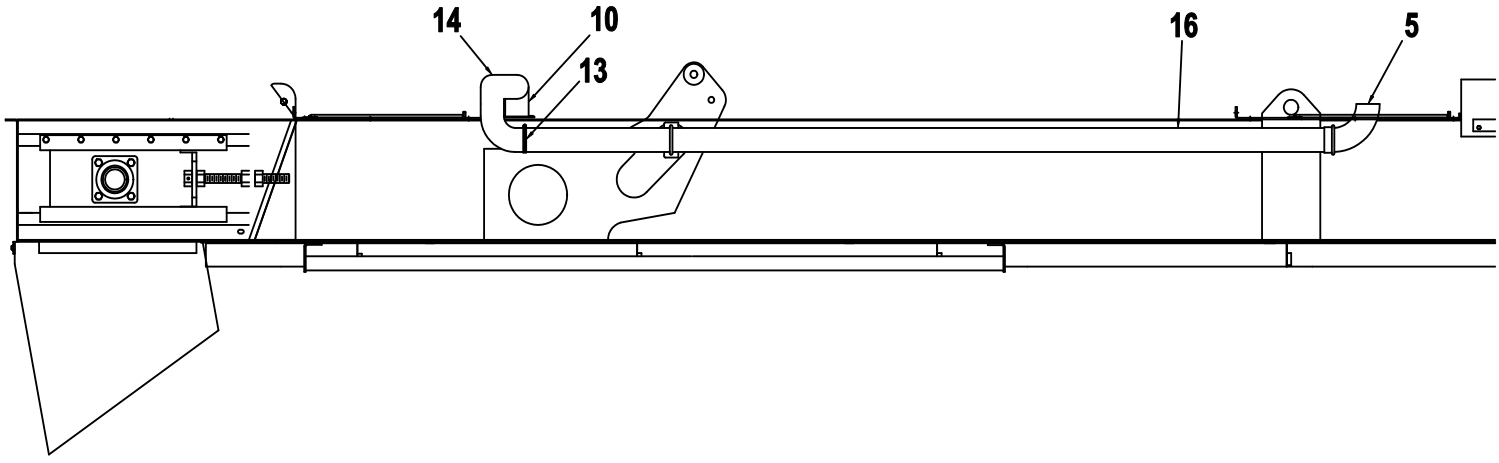




WELD SIZE +0/−1/16"

| | 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)

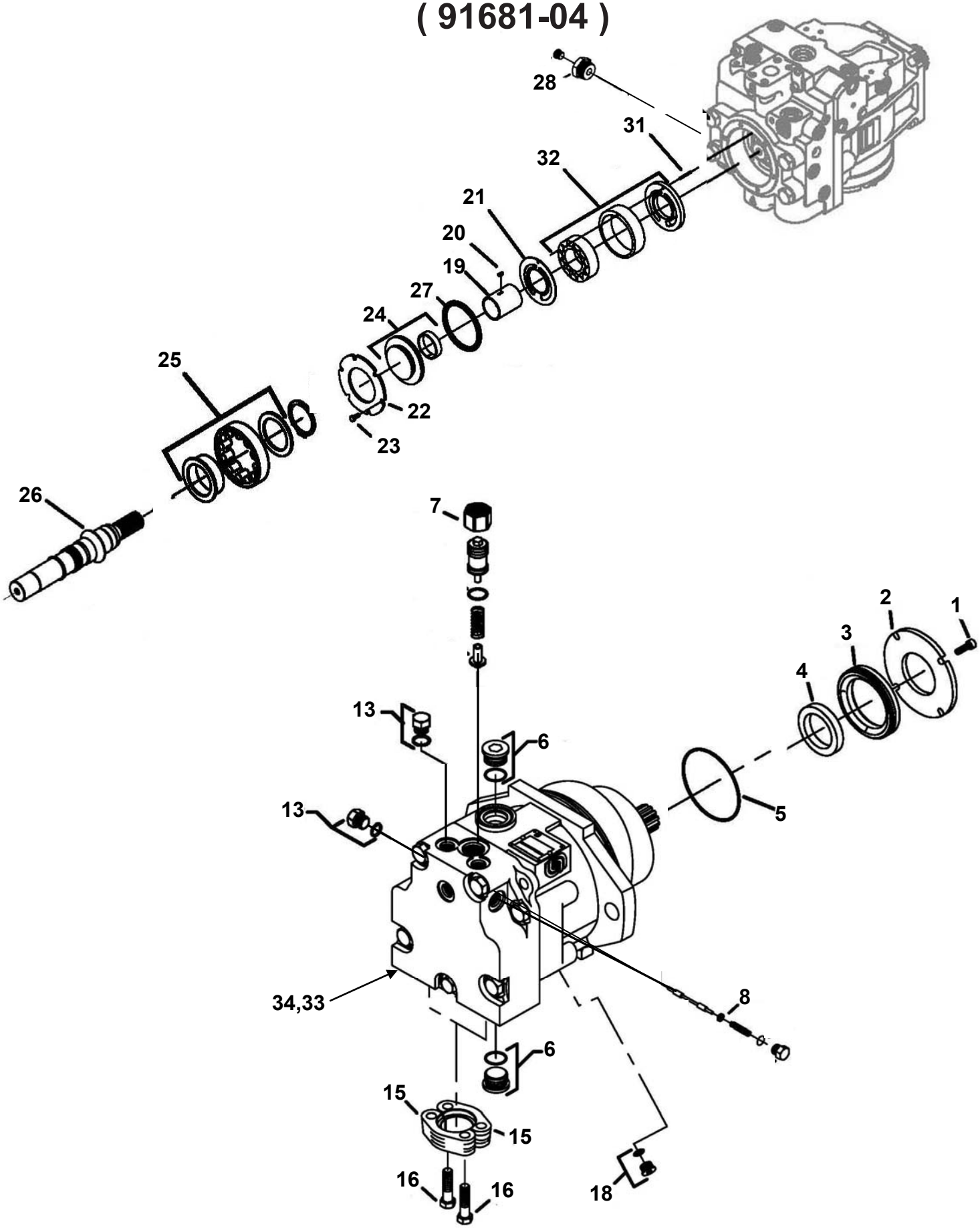


# C-3 TOP COVER W/ FUME-EX ASSEMBLY
# ( 214493-01 )

| 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 )

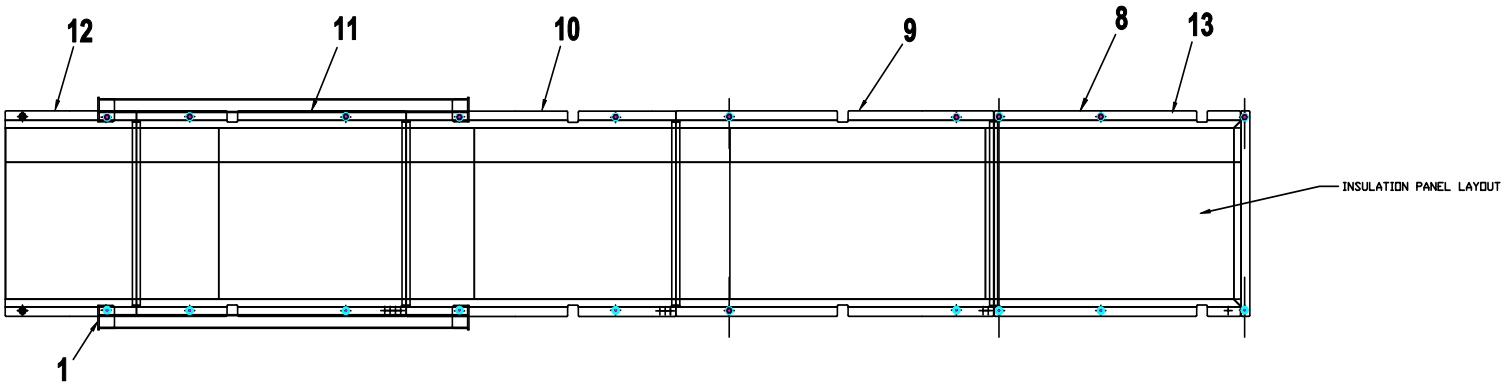


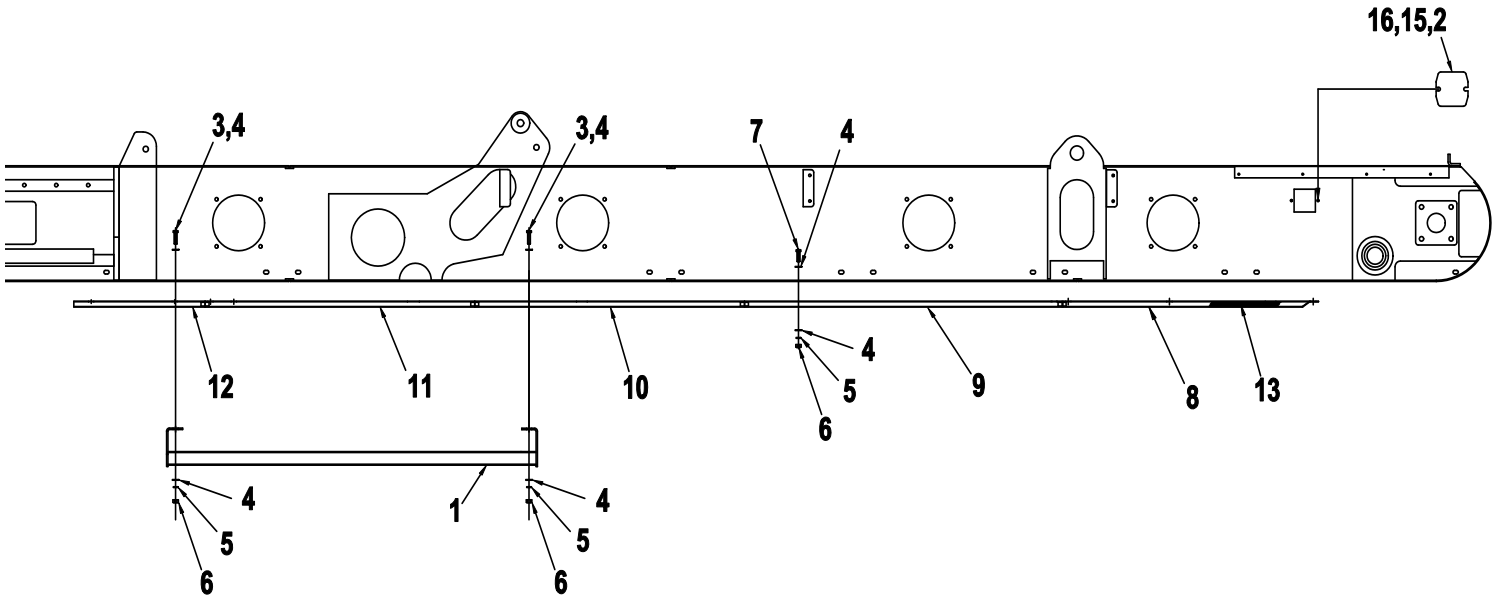
# C-3 DRIVE MOTOR
# ( 91681-04 )

| 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)



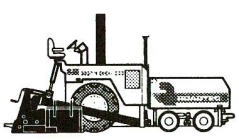



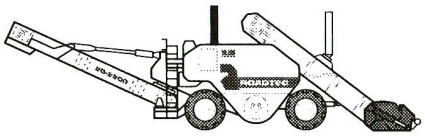

| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 212605-01 | C3 GUARD RAILS (SP-200) | 2 |
| **2** | 129384-03 | CHAIN INSPECTION PLATE | 1 |
| **3** | 84674 | HEX BOLT - 1/2-13 X 2" GR8 | 4 |
| **4** | 83781-04 | FLAT WASHER - 1/2" STEEL | 40 |
| **5** | 83317 | LOCK WASHER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

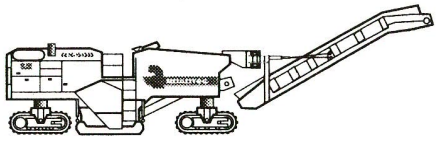
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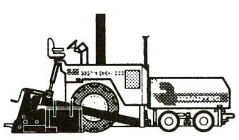
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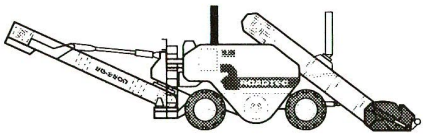
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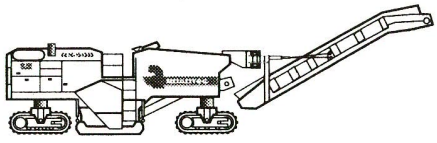
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# SECTION 5 : HYDRAULICS

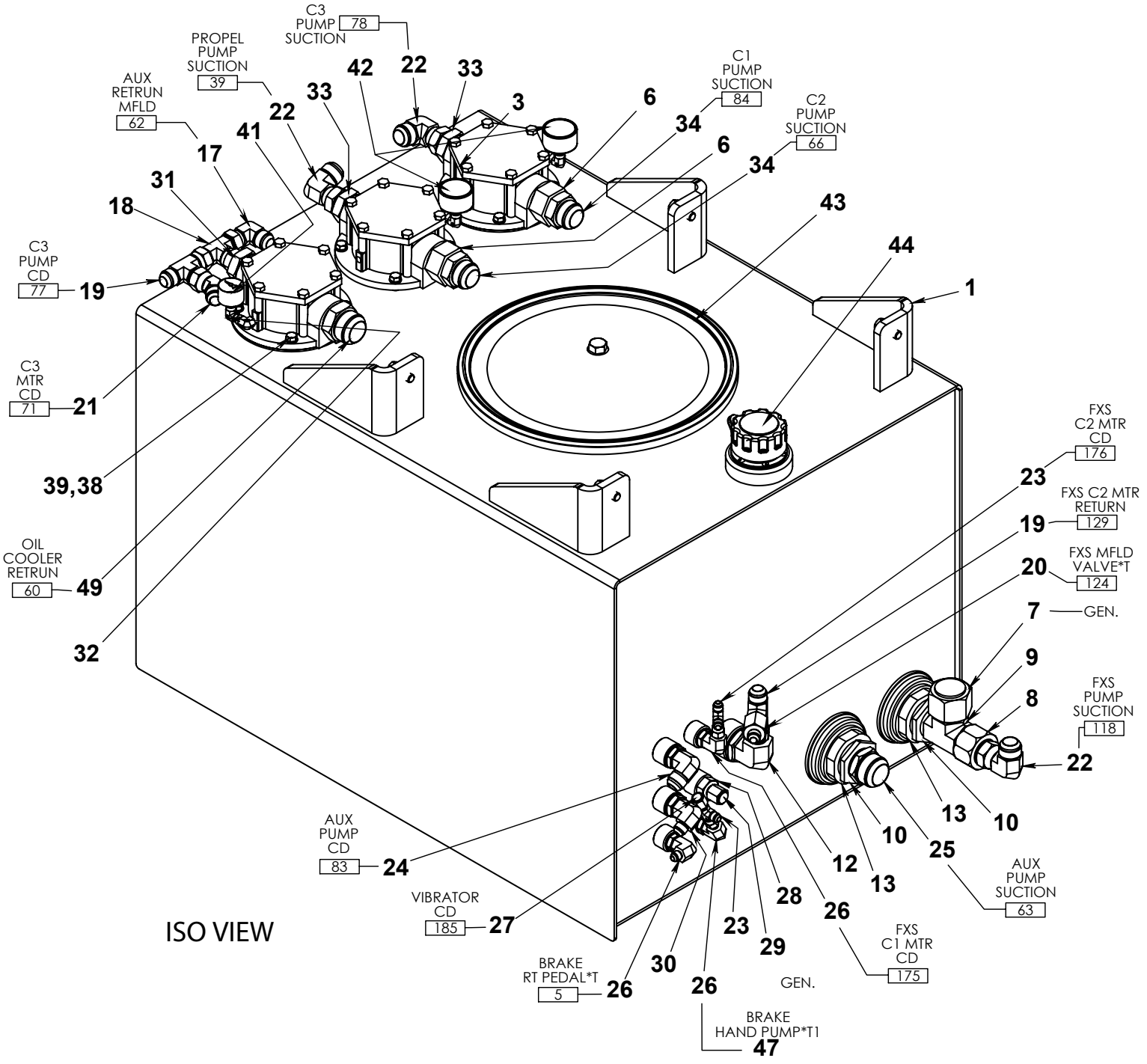

| ASSEMBLY | PART NO. | S/N | PAGE NO. |
|---|---|---|---|
| HYDRAULIC TANK | 239511-01 | 1221 & UP | 5.1 |
| HOUSING.- DOUBLE ELEMENT FILTER | 29G38 | | 5.5 |
| 18” ELEMENT | 229517-03 | | 5.6 |
| HOUSING - 2 ELEMENT FILTER W/ BY-PASS | 29G37 | | 5.7 |
| 18” ELEMENT | 229518-03 | | 5.8 |
| AUXILIARY 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 | 226801-01 | | 5.31 |
| C-1 HOPPER CONTROL MANIFOLD | 226800-02 | | 5.33 |
| C-1 RAISE / LOWER | 214929-01 | 824 & UP | 5.35 |
| C-1 RAISE/LOWER MANIFOLD | 214885-01 | | 5.38 |
| CYLINDER, C-1 HOPPER | 206666-01 | | 5.39 |
| CYLINDER, C-1 HOPPER RAISE | 97482-01 | | 5.40 |
| CYLINDER, C-1 BAFFLE | 215523-01 | | 5.41 |
| CYLINDER, C-1 RAISE/LOWER | 207380-01 | | 5.42 |
| 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 | 214925-01 | 824 & UP | 5.57 |
| C-3 CNTL. MANIFOLD | 214886-02 | | 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 | 214927-01 | | 5.65 |
| FLOWGATE CNTL. MANIFOLD | 214889-02 | | 5.68 |
| CYLINDER, FLOWGATE | 144894-01 | | 5.69 |
| HOOD RAISE | 204266-01 | | 5.71 |
| CYLINDER, HOOD RAISE | 201812-01 | | 5.74 |
| DRIVE ( PROPEL ) | 239409-01 | 1221 & UP | 5.76 |
| DIFF. LOCK VALVE | 221111-02 | | 5.78 |
| HAND PUMP / PILOT VALVE MANIFOLD | 202291-03 | | 5.79 |
| STEERING | 226479-01 | | 5.82 |
| CYLINDER, STEERING | 219625-03 | | 5.83 |
| JIC FITTING INSTRUCTIONS | 134914-02 | | |
| HYDRAULIC CHANNEL | 226561-01 | | |
| SPEED CHART | 226500-01 | | |
| HOSE LIST | 239468-04 | 1221 & UP | |
| SCHEMATIC | 235483-01 | 1109 & UP | |

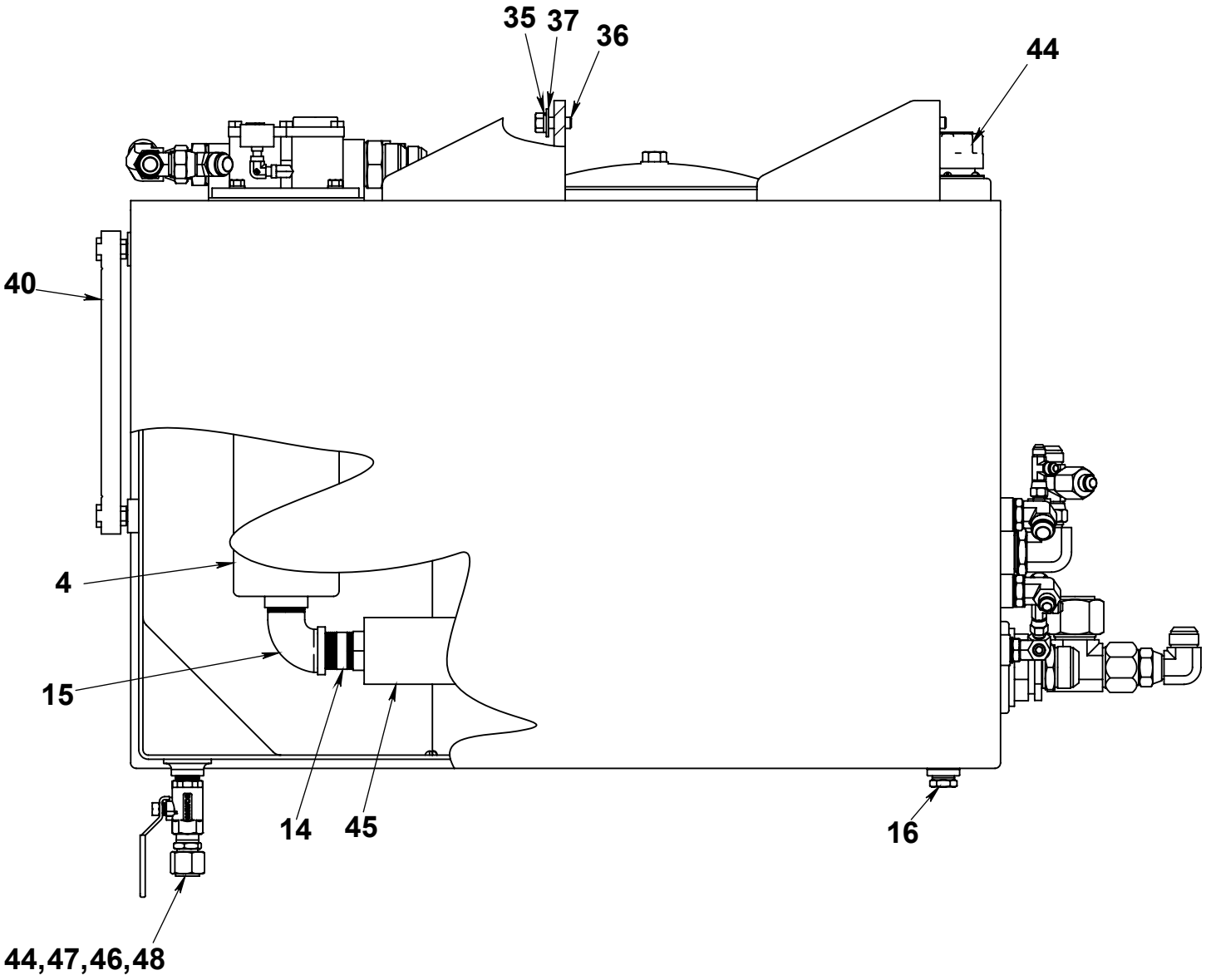
# ASSEMBLY - HYDRAULIC TANK
# ( 239511-01)

NEXT PAGE



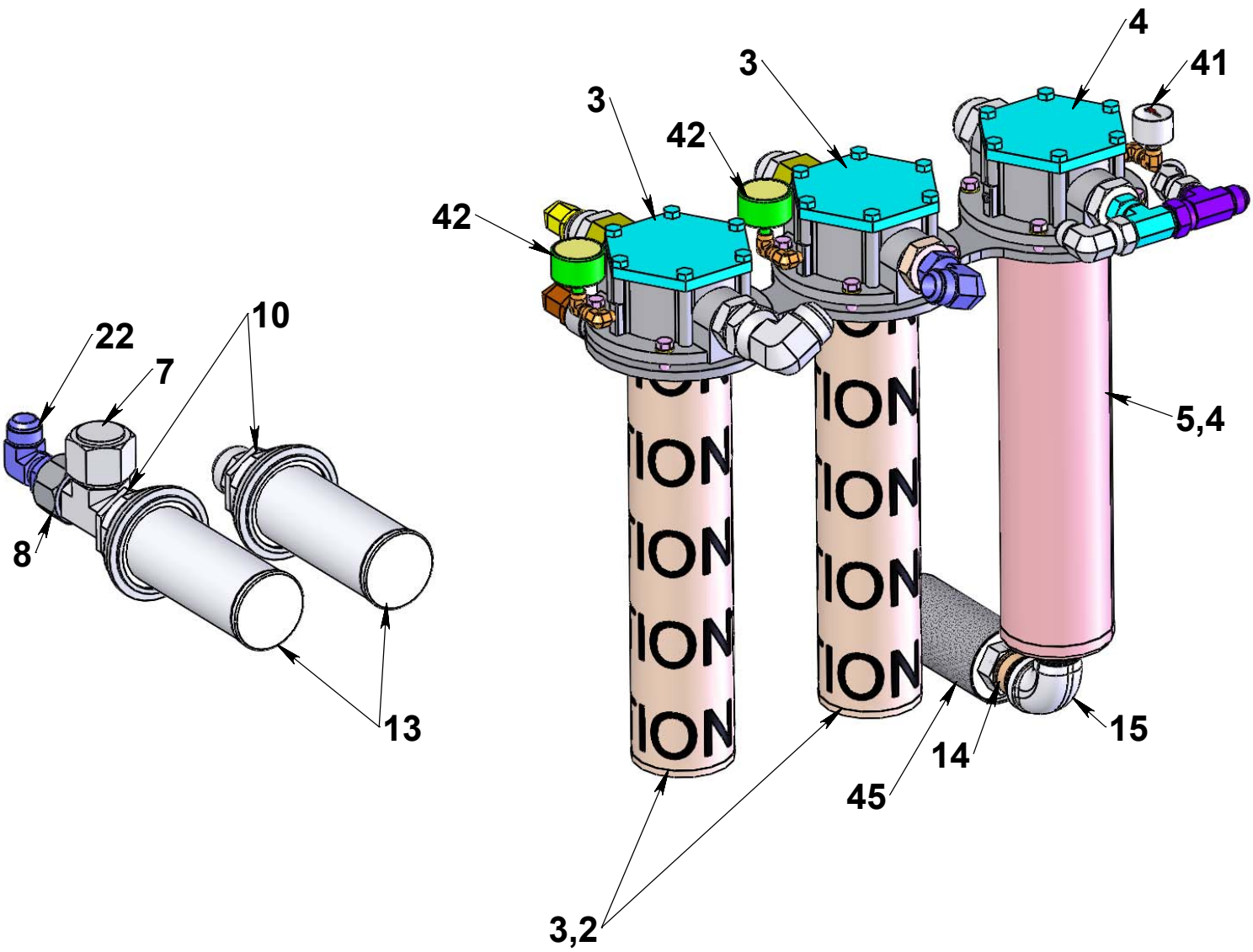
# ASSEMBLY - HYDRAULIC TANK
# ( 239511-01)





PREVIOUS PAGE

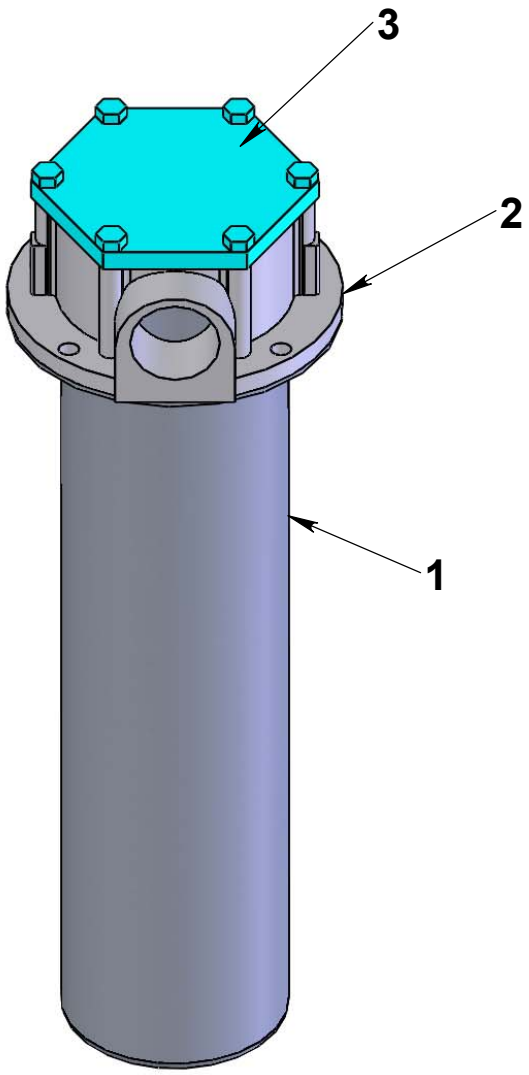
# ASSEMBLY-HYDRAULIC TANK (239511-01)



# 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**

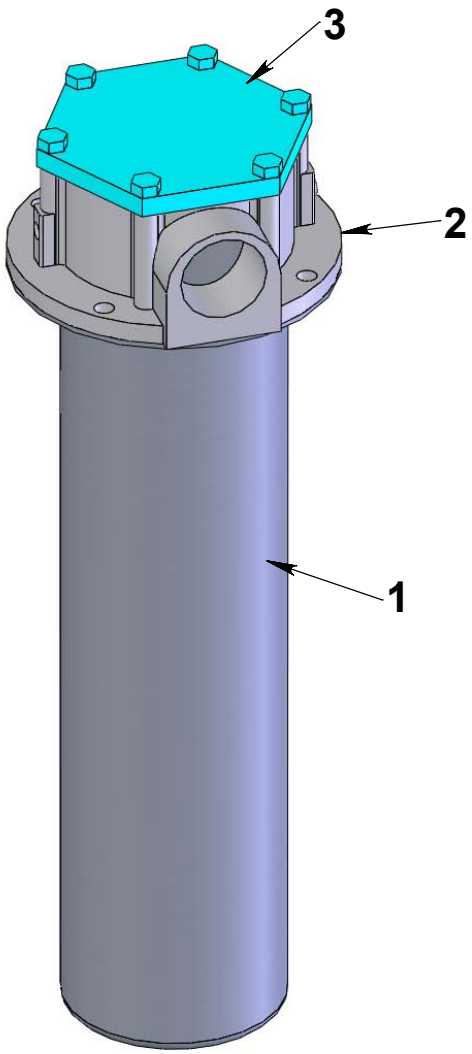
| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 29g38 bowl | 29g38 bowl | 1 |
| 2 | 28g38 filter head | 28g38 filter head | 1 |
| 3 | 29g38 filter head cap | 29g38 filter head cap | 1 |

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

14 BRAKE MFLD*P
42 HAND PUMP MFLD*P
56 STEERING VALVE*P
50 C2 COD VALVE*P
97A C1 LIFT MFLD*P1
137 C3 COD VALVE*P1
24 FLOW GATE VALVE*P
29 EZ START JUMPER

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

4
3
1
2
5

HIGH PRESSURE FILTER BRACKET (REF LH SIDEWALL)

170

( ASSY AUX. MANIFOLDS SB-2500)

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

AIR CLEANER BRACKET (REF AIR BREATHER ASSY)

TO OIL COOLER (TOP PORT-SUPPLY)

61

64

ENGINE ASSEMBLY

AUX. OIL PUMP

63

62

63

60

FROM OIL COOLER (BOTTOM PORT-RETURN)

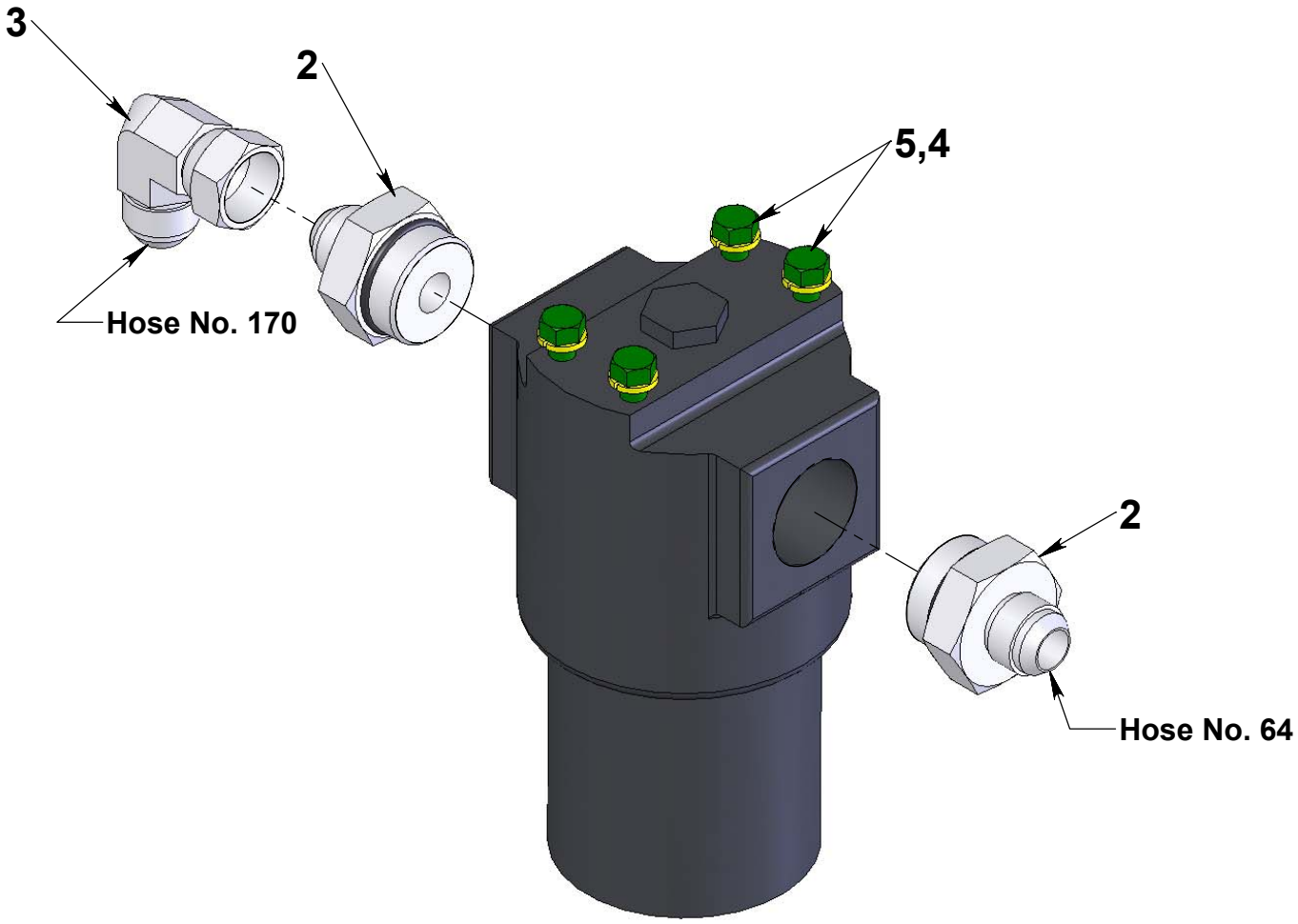
5

REF HYDRAULIC TANK ASSEMBLY



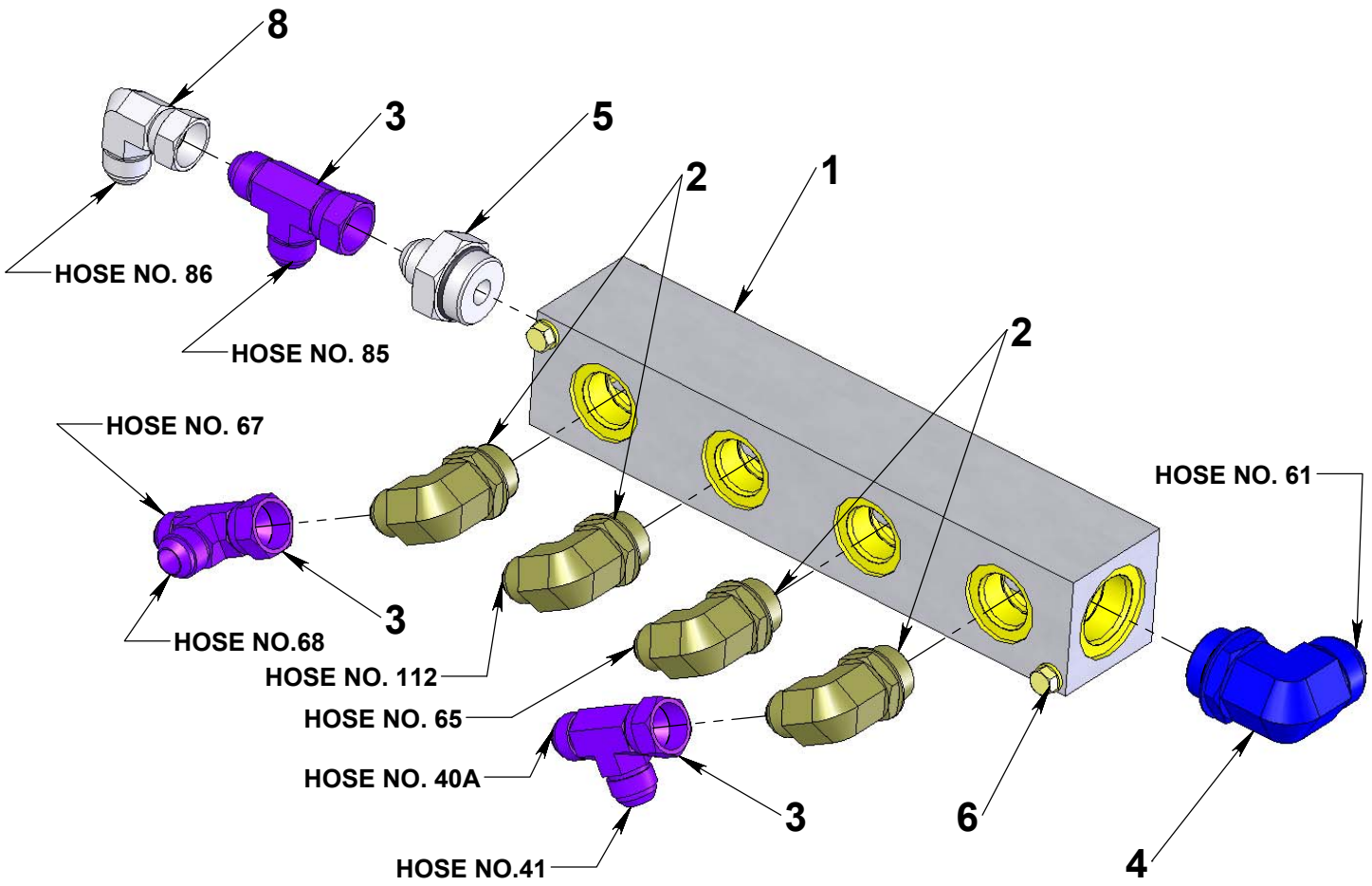
ROADTEC
an Astec Industries Company

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



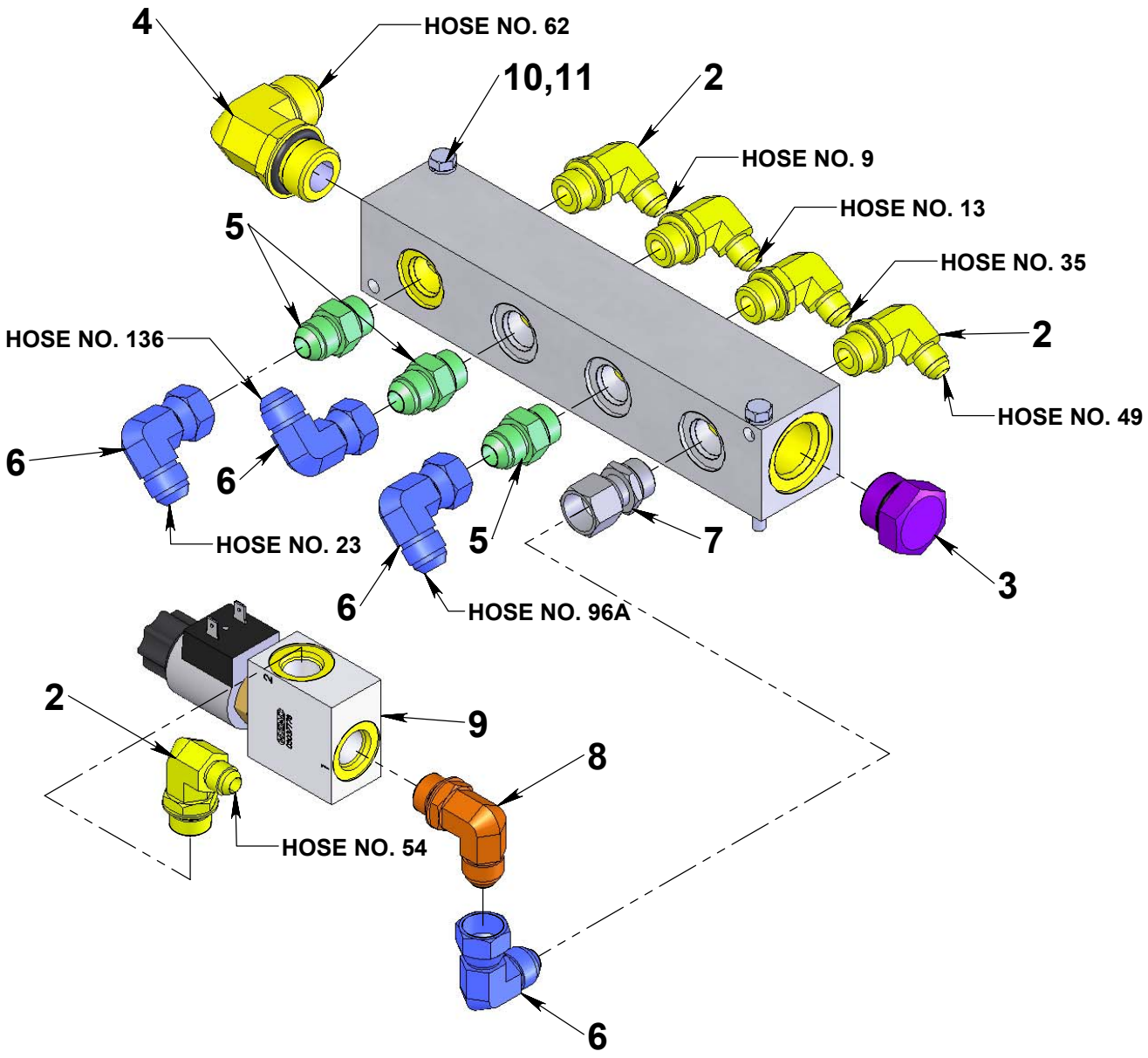

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 142799-03 | FILTER ~ HIGH PRESSURE IN-LINE | 1 |
| 2 | 120671 | FIT ~ 12 JIC x 20 SAE ST. | 2 |
| 3 | 83764-04 | FIT * ELBOW 12 JIC M 90 FM SWIVEL | 1 |
| 4 | 83056 | WASHER ~ LOCK 3/8 SPRING STEEL | 4 |
| 5 | 142926 | BOLT * HEX 3/8-24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

# ASSEMBLY-RETURN MANIFOLD
# (231719-03)



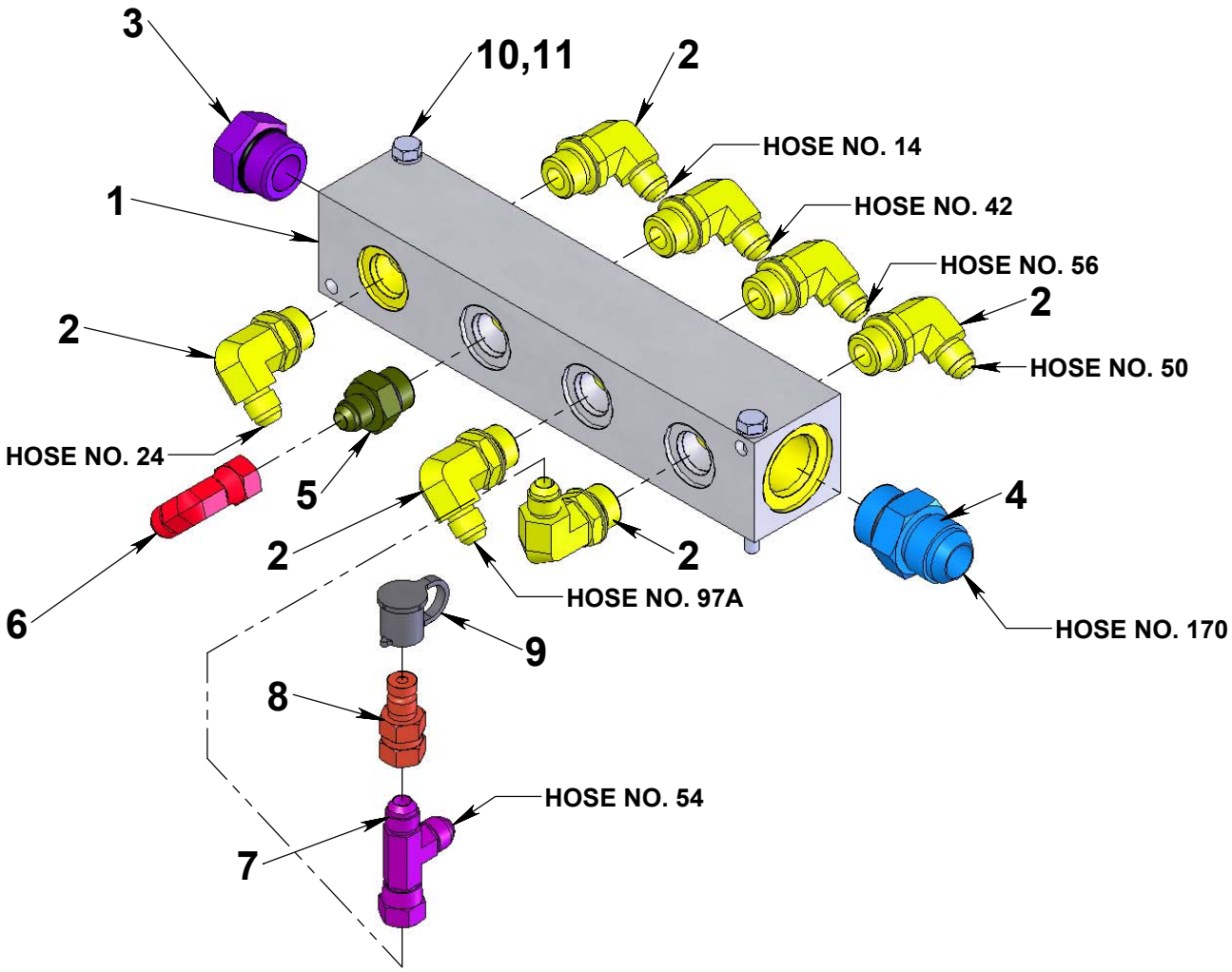

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 206524-03 | MANIFOLD * 0° HEADER (16 SAE PORTS) | 1 |
| 2 | 85875-04 | FIT * ELBOW 12 JIC M - 16 SAE 90 | 4 |
| 3 | 84402-04 | FIT ~ SWIVEL RUN TEE 12 JIC | 3 |
| 4 | 97168 | FIT * ELBOW 20 JIC X 20 SAE 90 DEG. | 1 |
| 5 | 120671 | FIT ~ 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 |

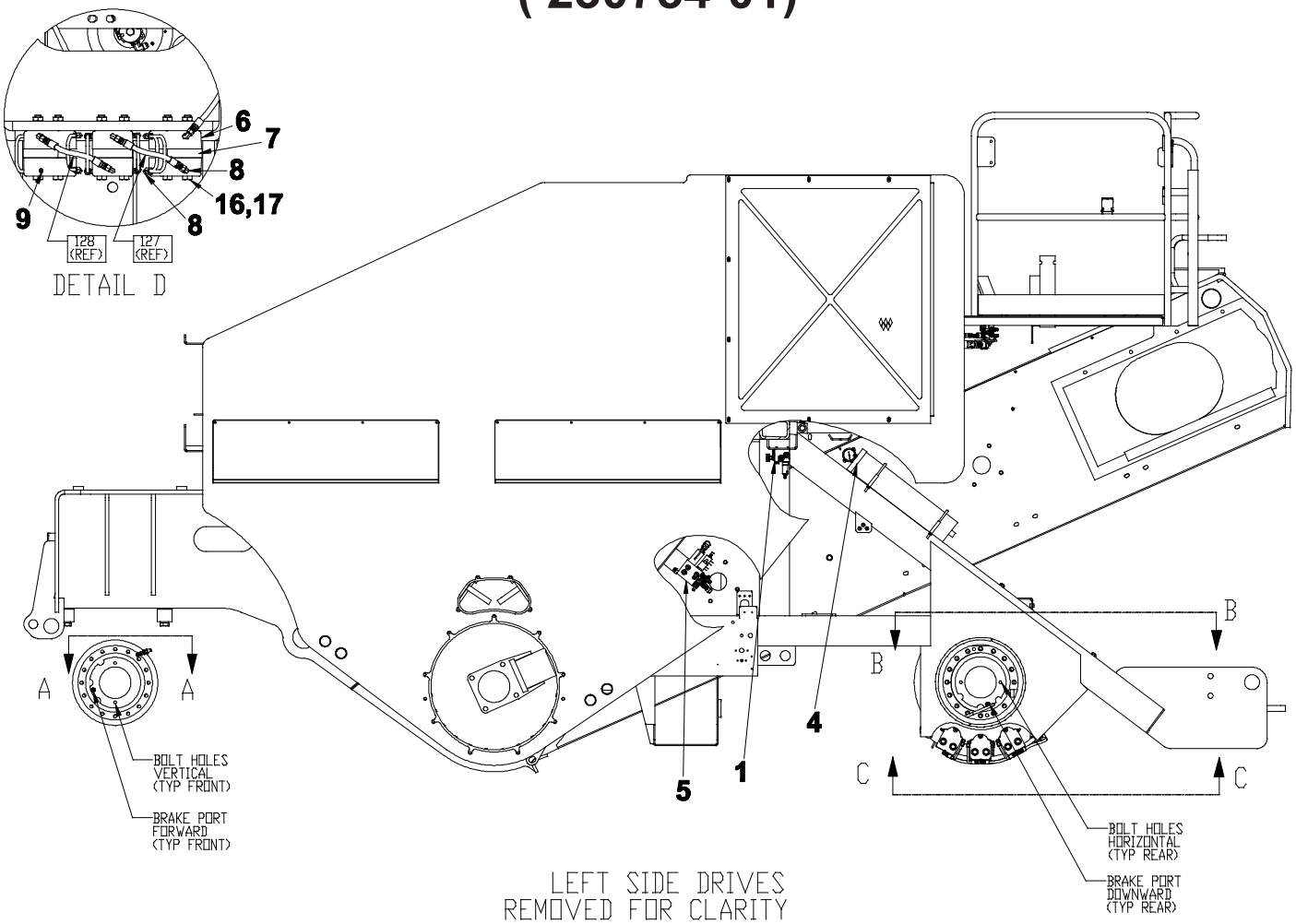
# ASSEMBLY-MANIFOLD AUX. PRESSURE (232251-03)

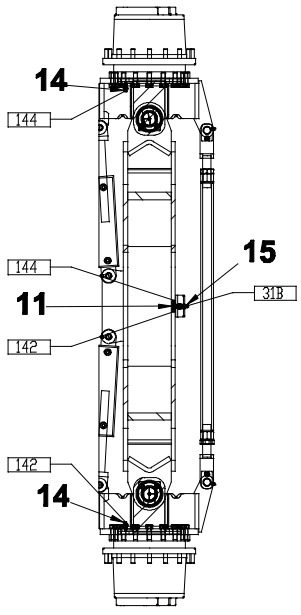


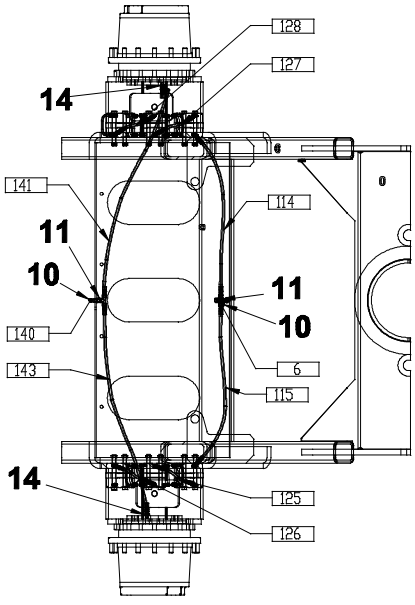

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 206522-03 | 180 DEGREE MANIFOLD BLOCK | 1 |
| 2 | 84426-04 | FIT * 6 JIC - 8 SAE 90 DEG. MALE | 7 |
| 3 | 83979-04 | FIT ~ PLUG #12 SAE | 1 |
| 4 | 83457-04 | FIT ~ 12 JIC M x 12 SAE MALE STR | 1 |
| 5 | 83469-04 | FIT ~ CONNECTOR 6 JIC - 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 |

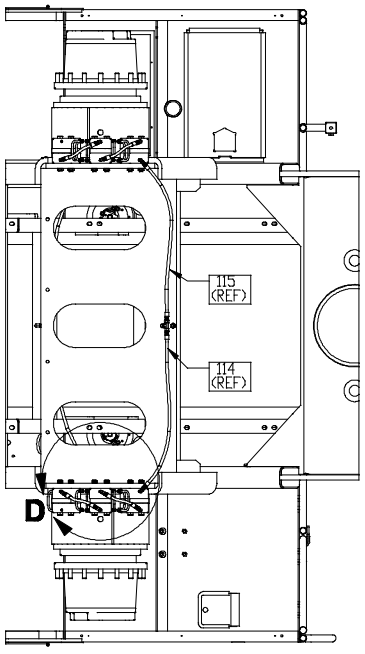
# BRAKE CIRCUIT HYDRAULICS
# ( 230754-01)

NEXT PAGE



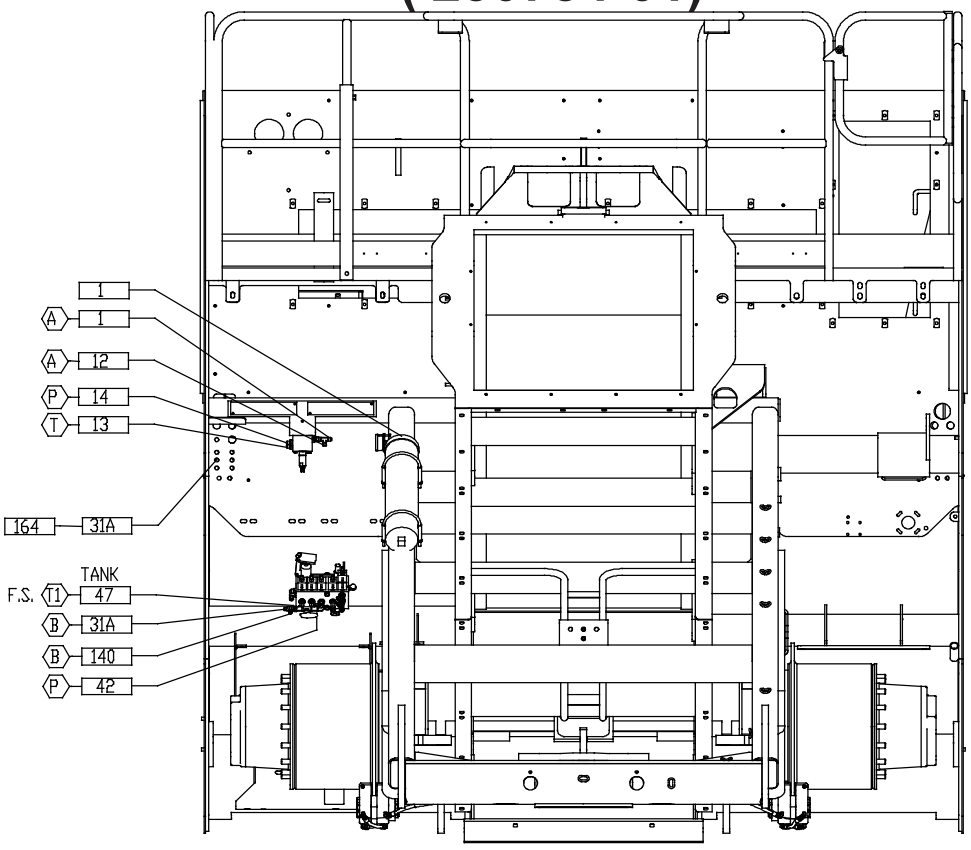



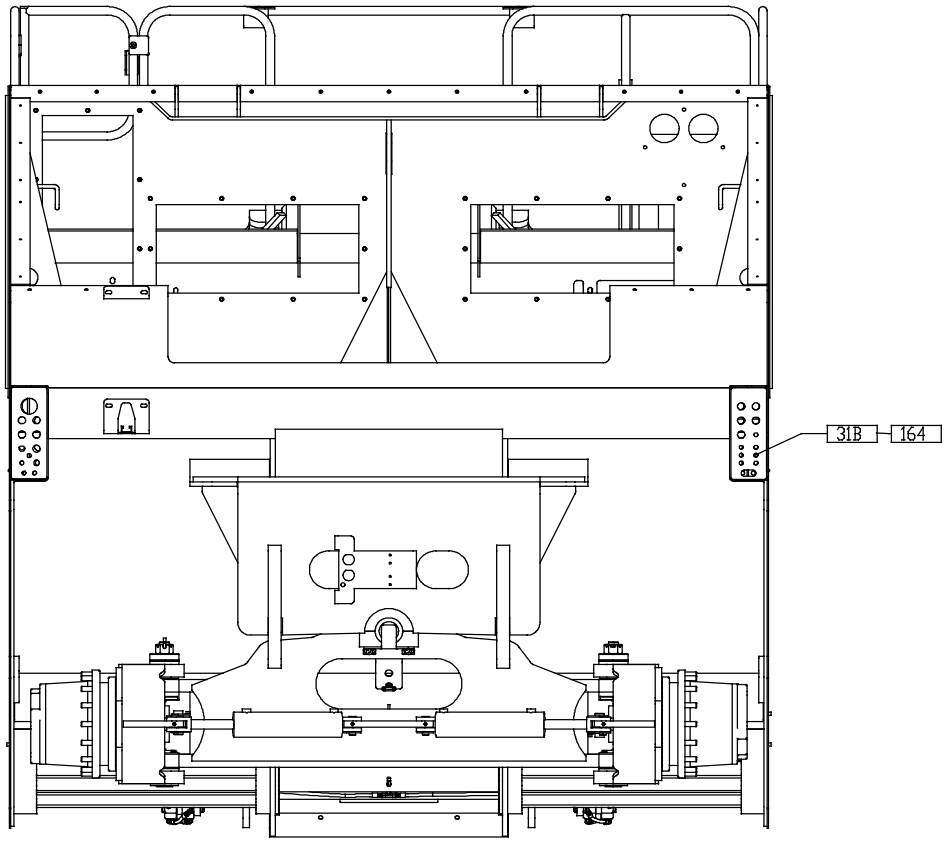



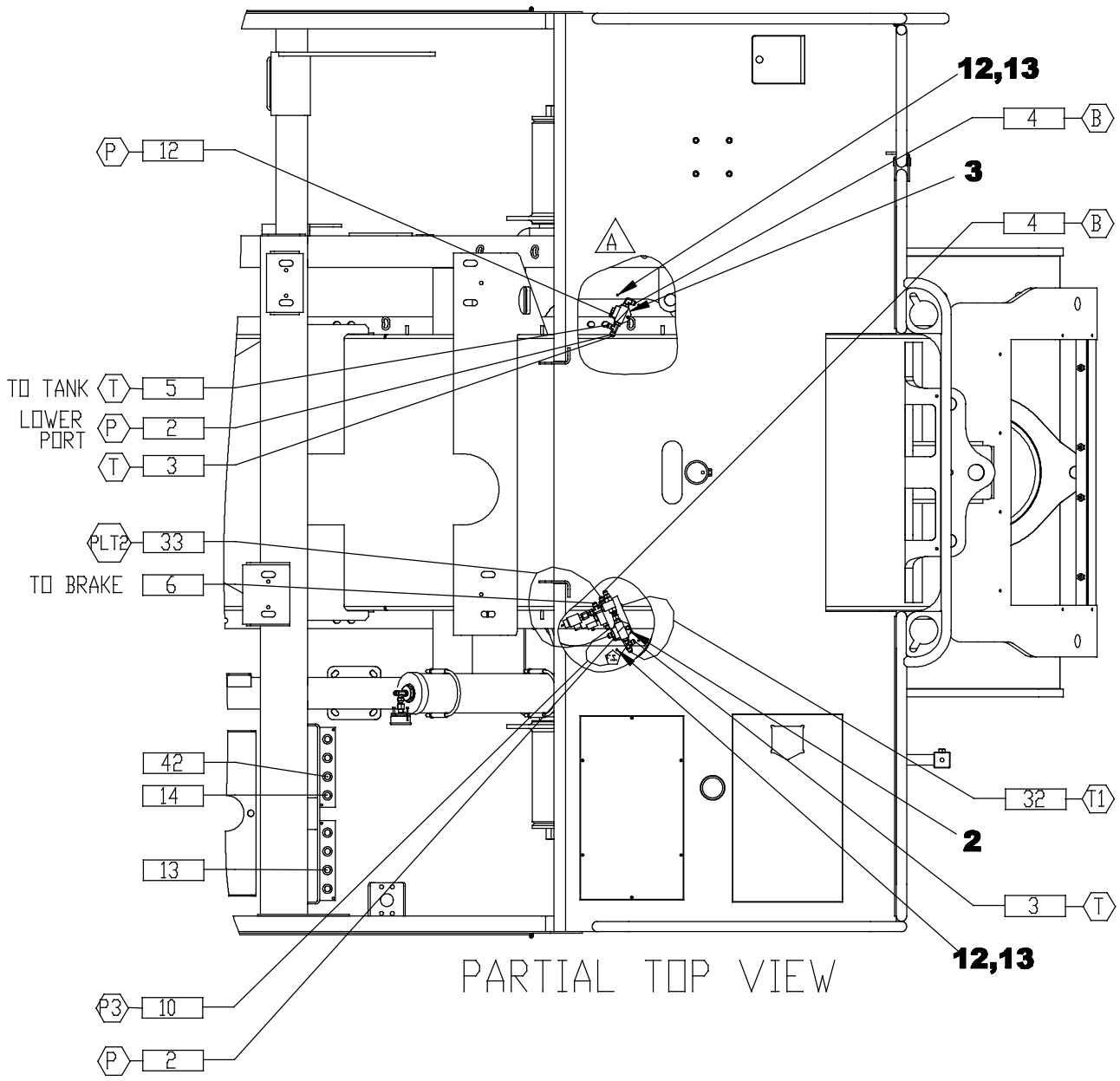
# BRAKE CIRCUIT HYDRAULICS
# ( 230754-01)





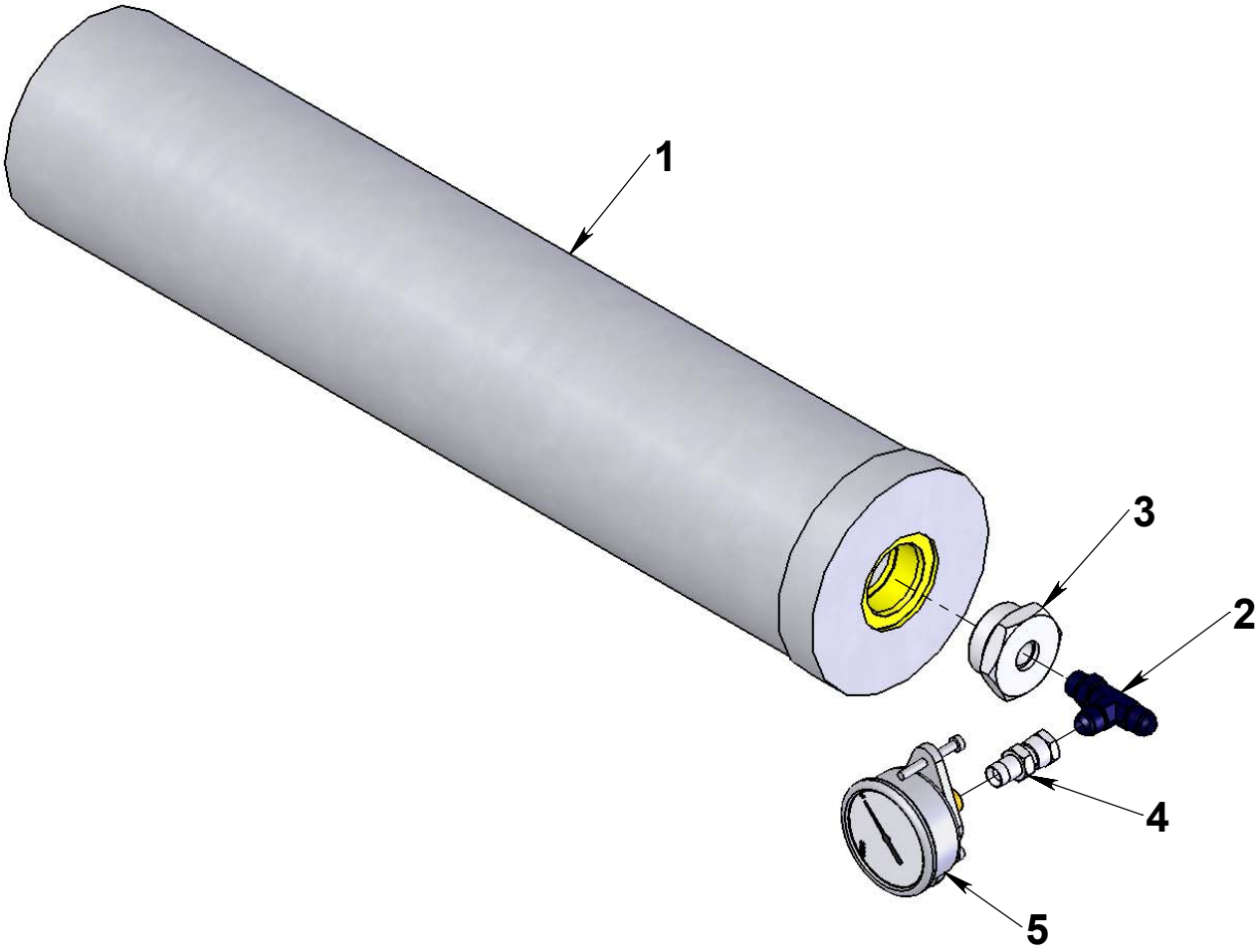
# BRAKE CIRCUIT HYDRAULICS
# ( 230754-01)



# BRAKE CIRCUIT ASSY.
# (230754-01)

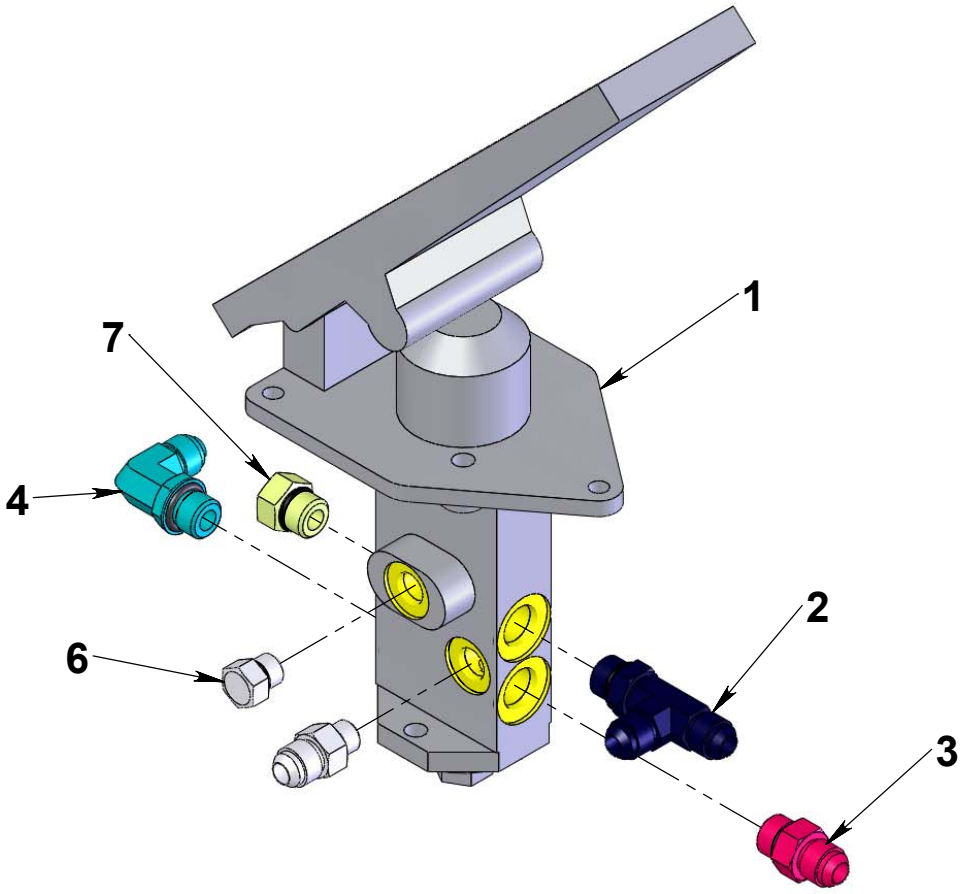
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 214884-03 | ASSY - BRAKE MANIFOLD | 1 |
| 2 | 230674-02 | SUB-ASSY - LH BRAKE ACTUATOR VALVE | 1 |
| 3 | 202728-03 | SUB-ASSY - RH BRAKE ACTUATOR VALVE | 1 |
| 4 | 202729-03 | SUB-ASSY - BRAKE ACCUMULATOR | 1 |
| 5 | 202291-03 | ASSY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

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



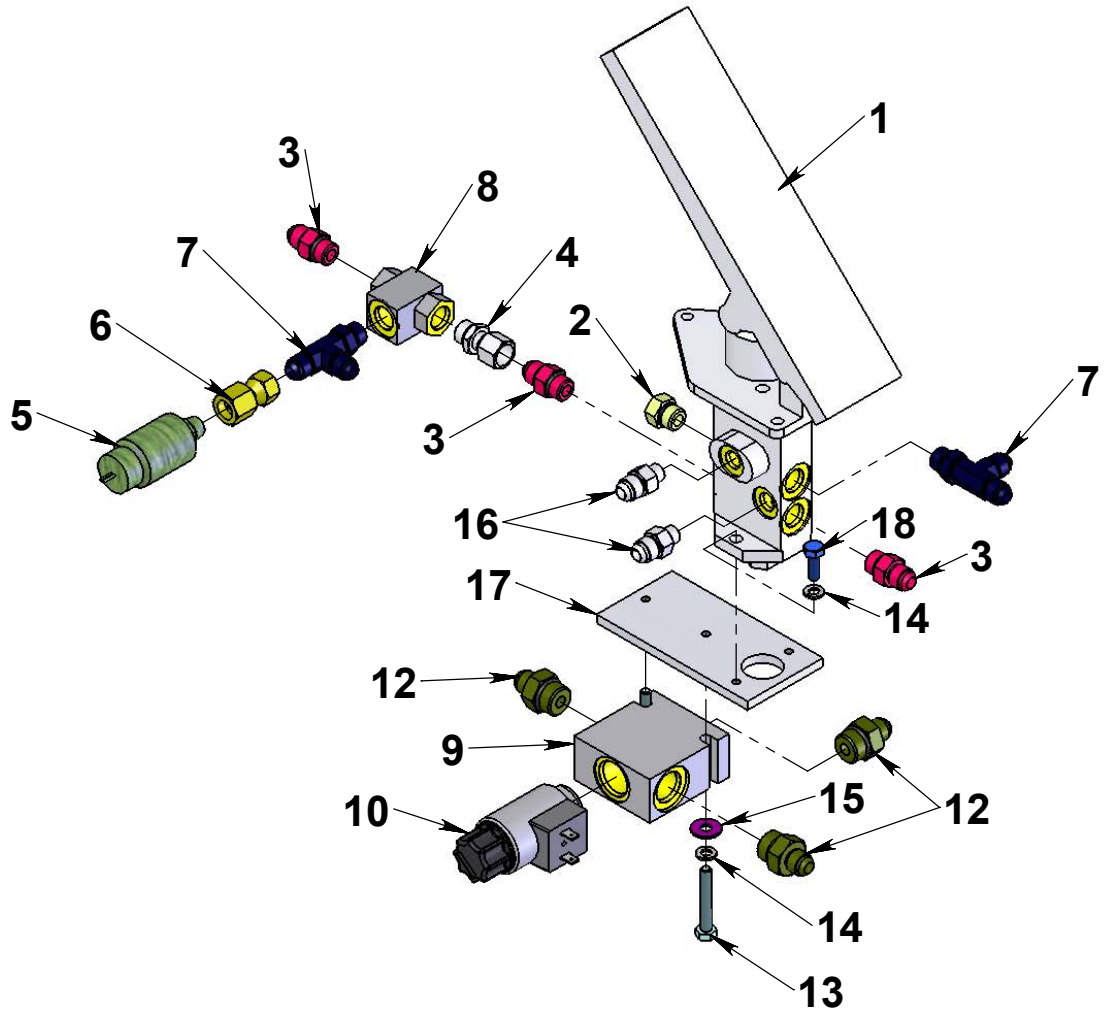

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 99389 | TANK * TOBUL ACCUMULATOR | 1 |
| 2 | 91665-04 | FIT ~ RUN TEE 6 JIC M - 6 SAE M | 1 |
| 3 | 136299-04 | FIT * REDUCER 20 SAE MALE-6 SAE FEM | 1 |
| 4 | 86622-04 | FIT * 1/4 NPT M - 6 JIC FEM SWIVEL | 1 |
| 5 | 89059-04 | GAUGE *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

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



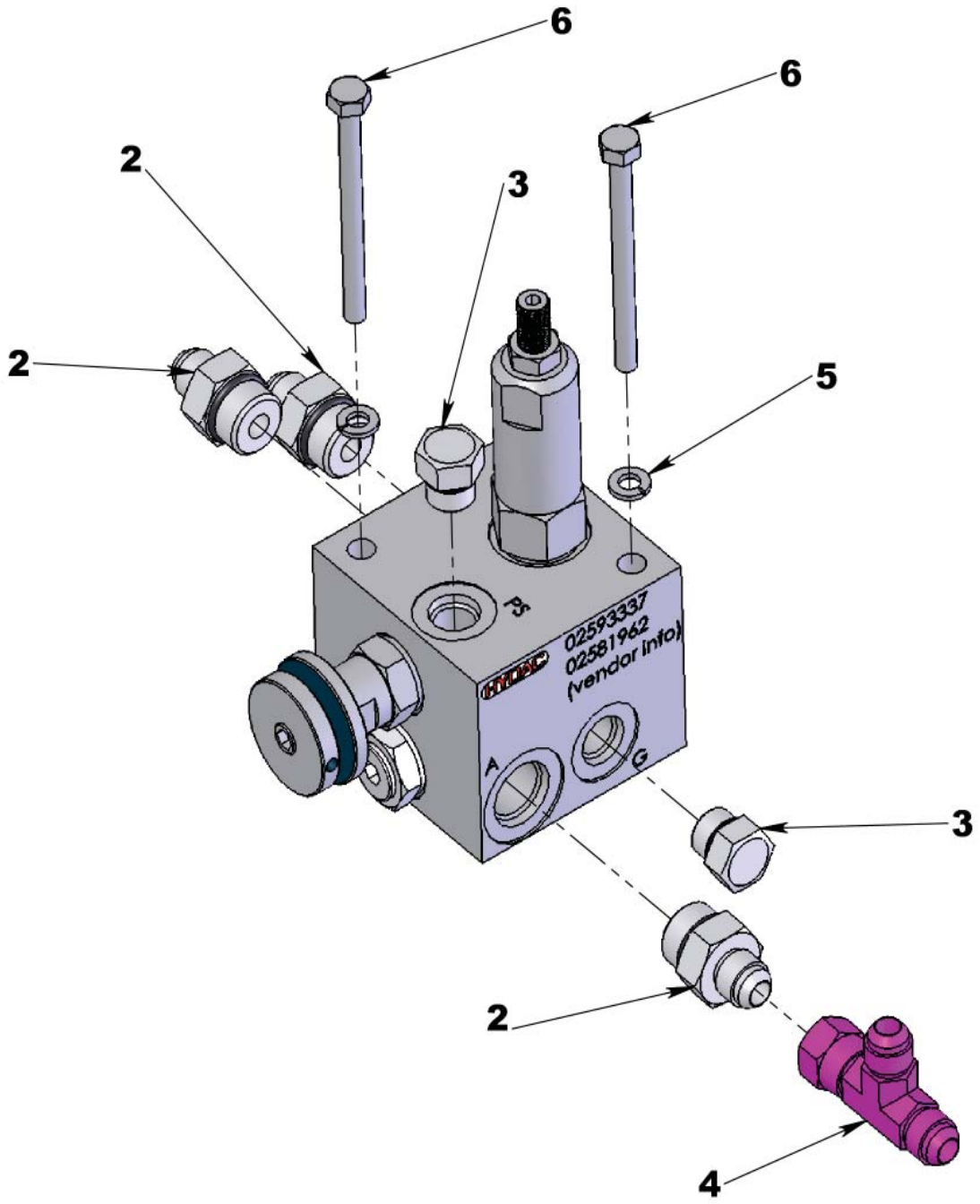

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 99365 | VALVE * ACTUATOR HYD. POWER BRAKE | 1 |
| 2 | 91665-04 | FIT ~ RUN TEE 6 JIC M - 6 SAE M | 1 |
| 3 | 83735-04 | FIT * ADAPTER 6 JIC - 6 SAE MALE | 1 |
| 4 | 83734-04 | FIT * 6 JIC - 6 SAE 90 DEG. | 1 |
| 5 | 122167 | FIT * 6 JIC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



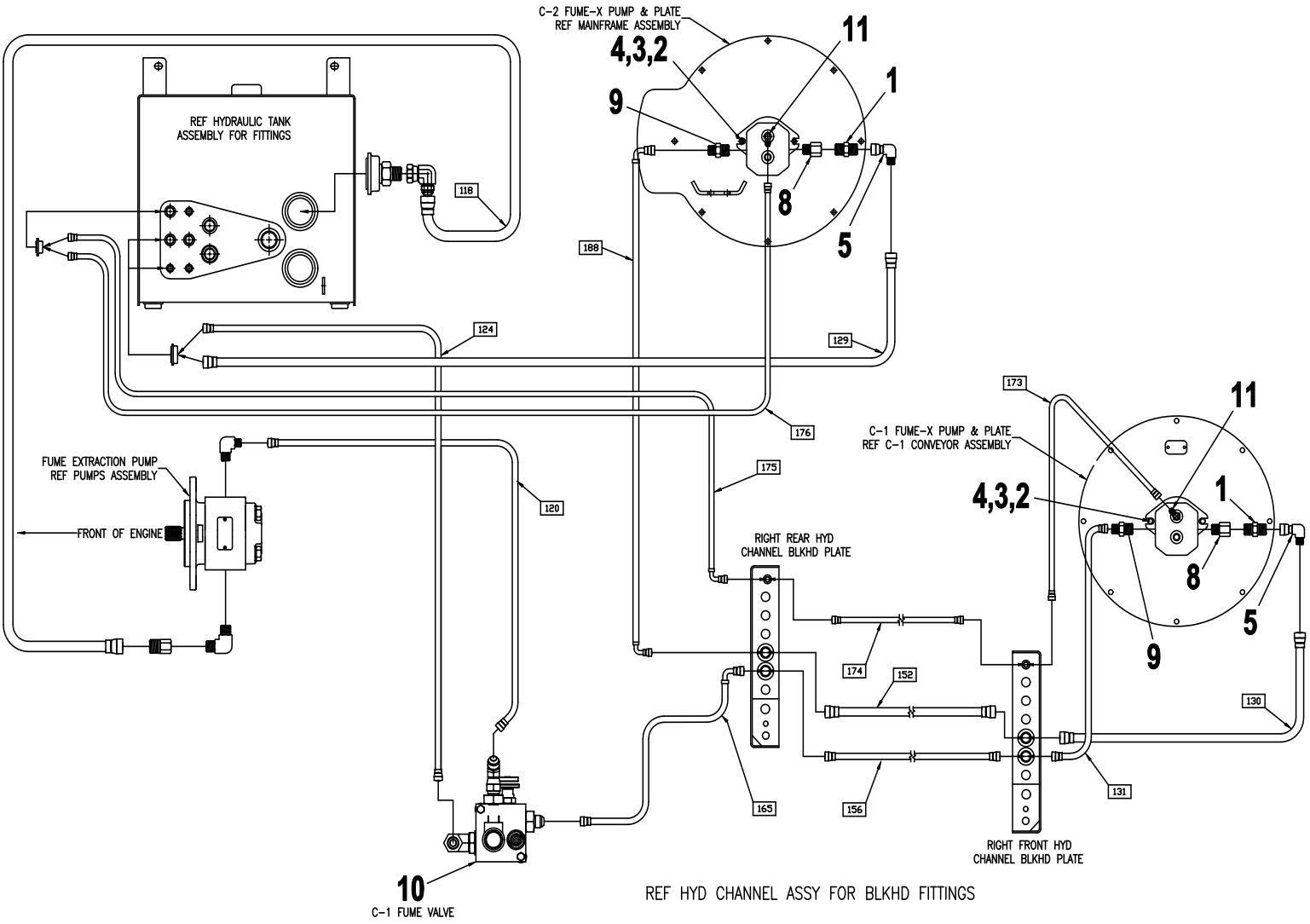

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 99365 | VALVE * ACTUATOR HYD. POWER BRAKE | 1 |
| 2 | 84635-04 | FIT * PLUG 6 SAE | 1 |
| 3 | 83735-04 | FIT * ADAPTER 6 JIC - 6 SAE MALE | 3 |
| 4 | 135923-04 | FIT * 6 SAE MALE - 6 JIC FEM SW.STR | 1 |
| 5 | 215977-03 | ASSY-BRAKE PRESSURE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



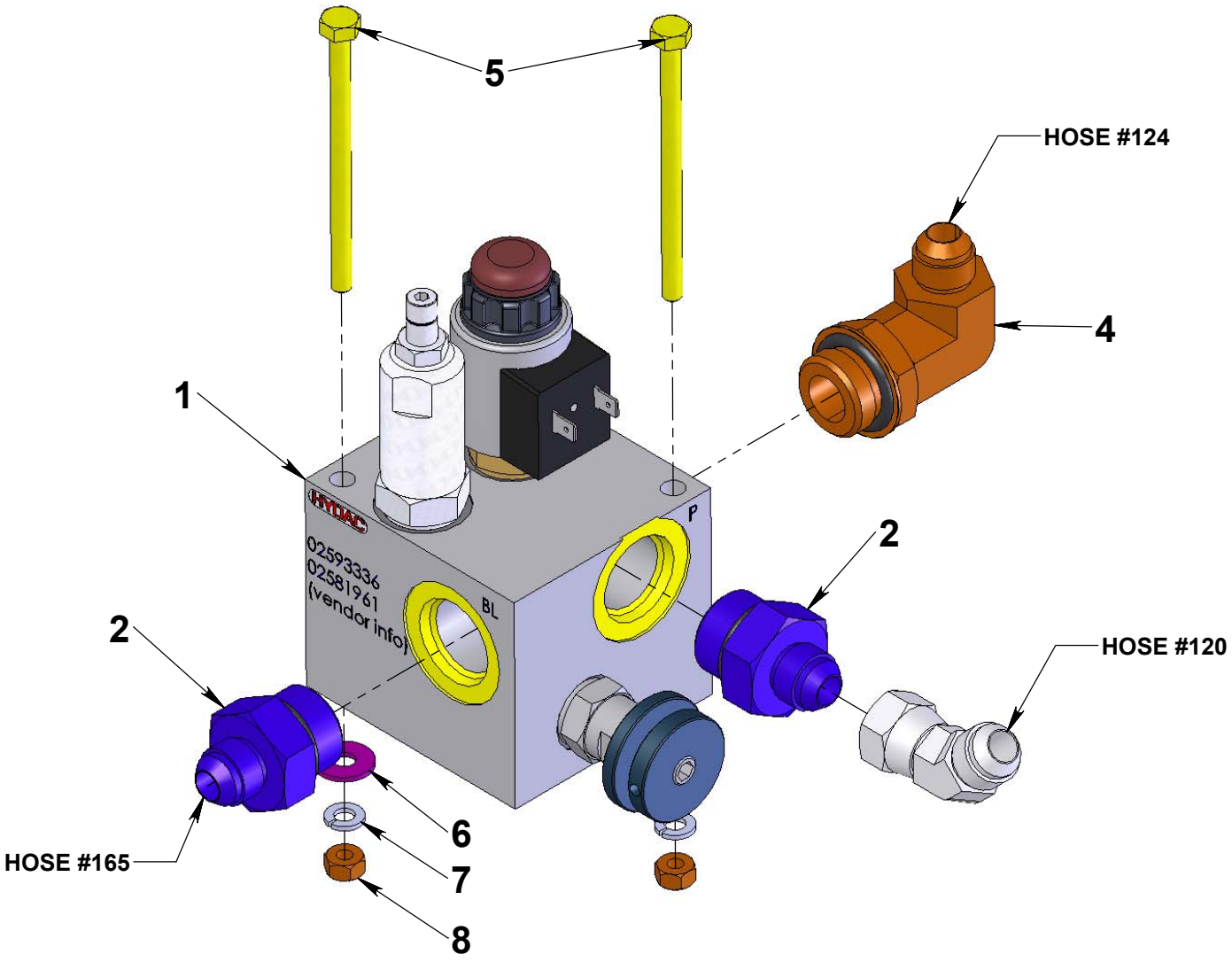

| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 211542-01 | MANIFOLD * BRAKE PRESSURE | 1 |
| **2** | 83469-04 | FIT ~ CONNECTOR 6 JIC - 8 SAE MALE | 3 |
| **3** | 84635-04 | FIT * PLUG 6 SAE | 2 |
| **4** | 84636-04 | FIT ~ SWIVEL RUN TEE 6 JIC | 1 |
| **5** | 83065 | WASHER ~ 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 |

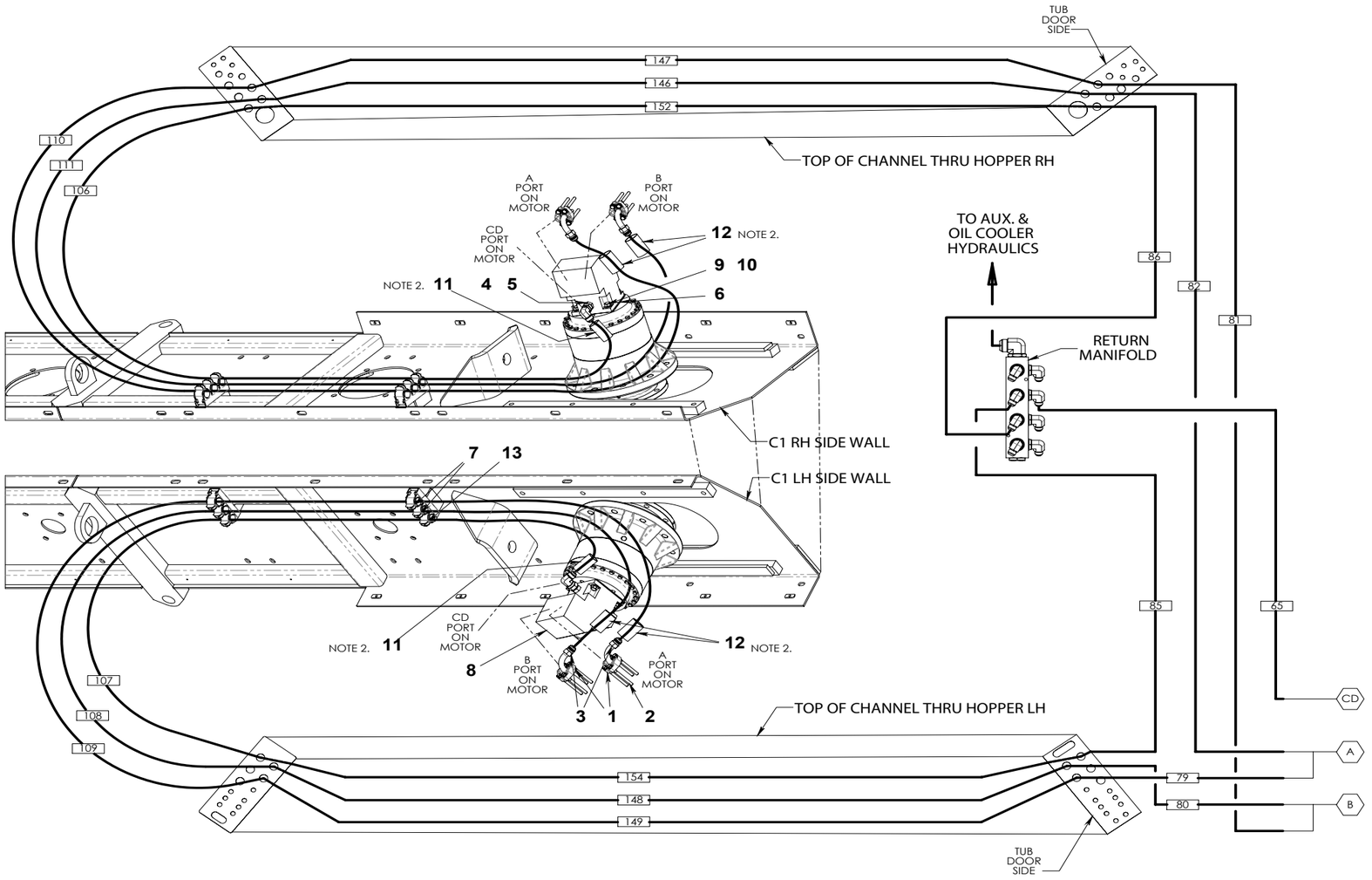
# ASSEMBLY-FUME EXTRACTION MANIFOLD (214887-03)

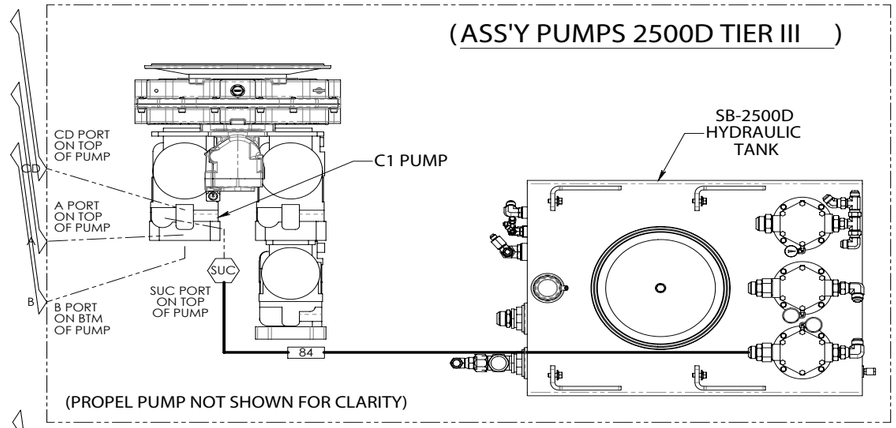


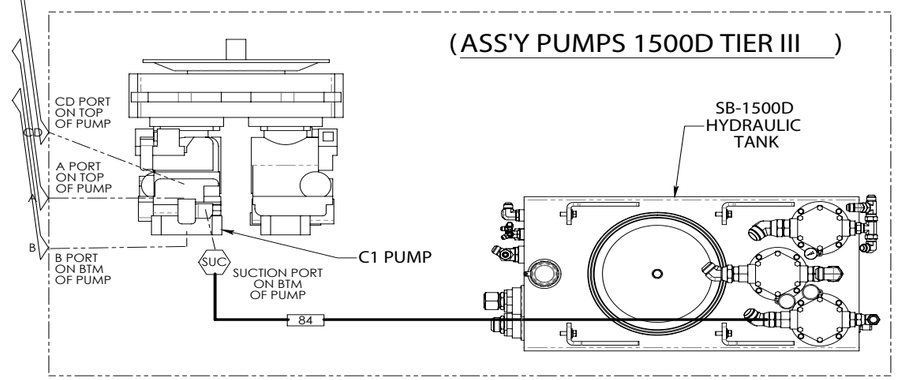

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 211541-01 | MANIFOLD * FXS | 1 |
| 2 | 89616 | FIT * 8 JIC X 12 SAE ST. MALE | 2 |
| 3 | 85218-04 | FIT * ELBOW SWIVEL 8 JIC 45 DEG. | 1 |
| 4 | 127491 | FITTING * 8 JIC-12 SAE 90 | 1 |
| 5 | 146144 | BOLT * HEX 1/4-20 X 3 3/4 GRADE 8 | 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 |



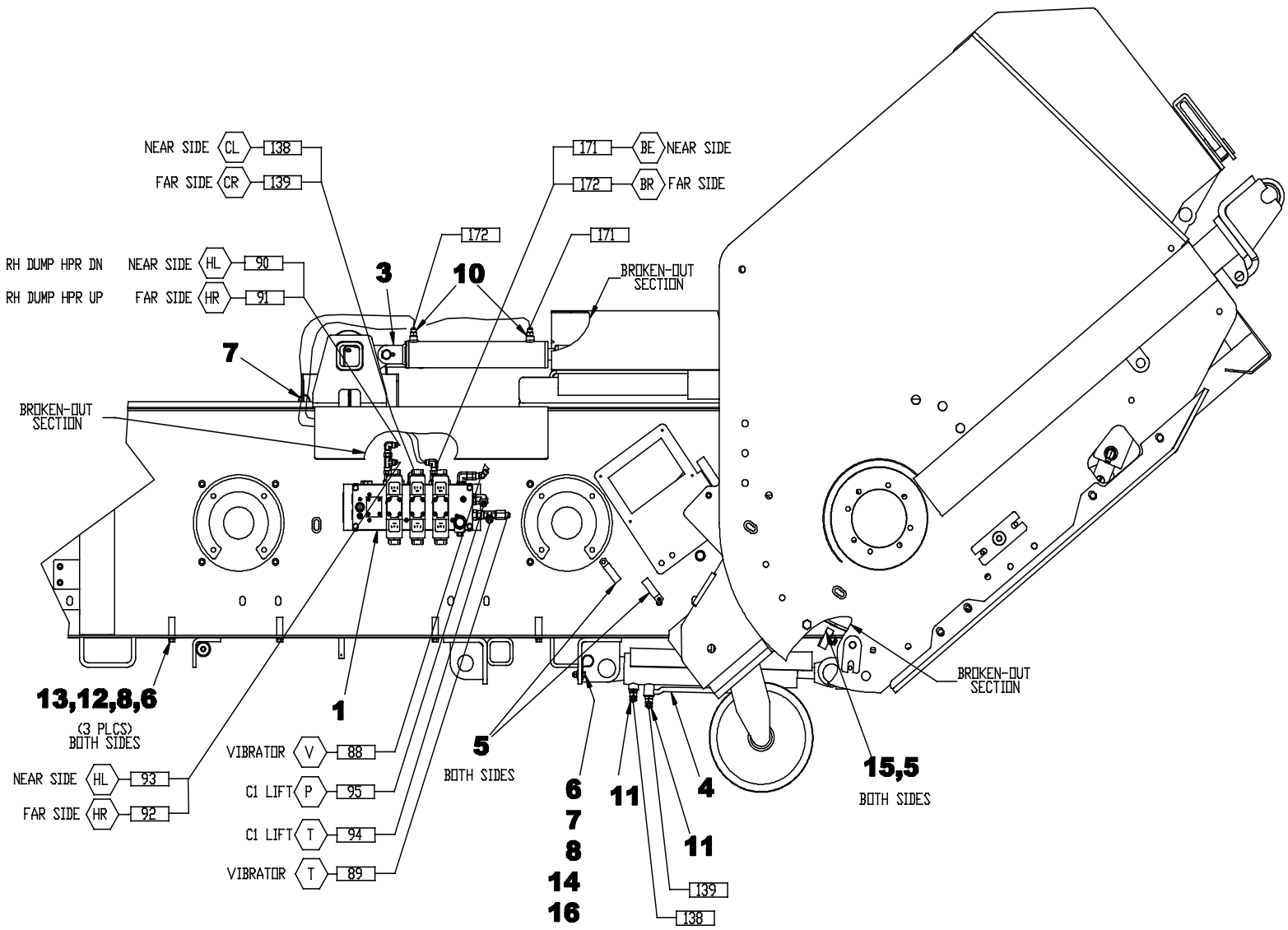






ROADTEC an Astec Industries Company

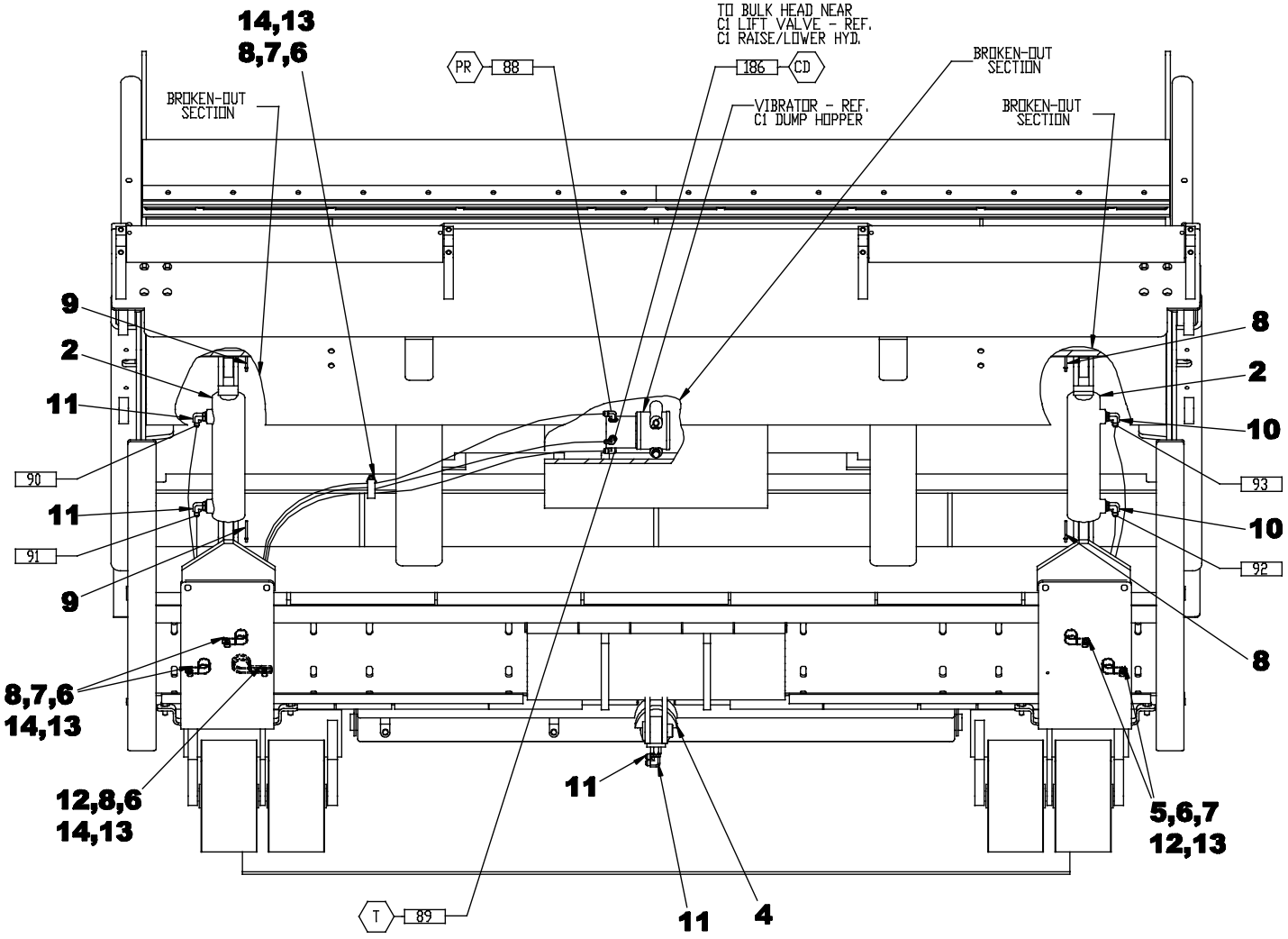
# C-1 DUMP HOPPER HYDRAULICS
# ( 226801-01 )

NEXT PAGE



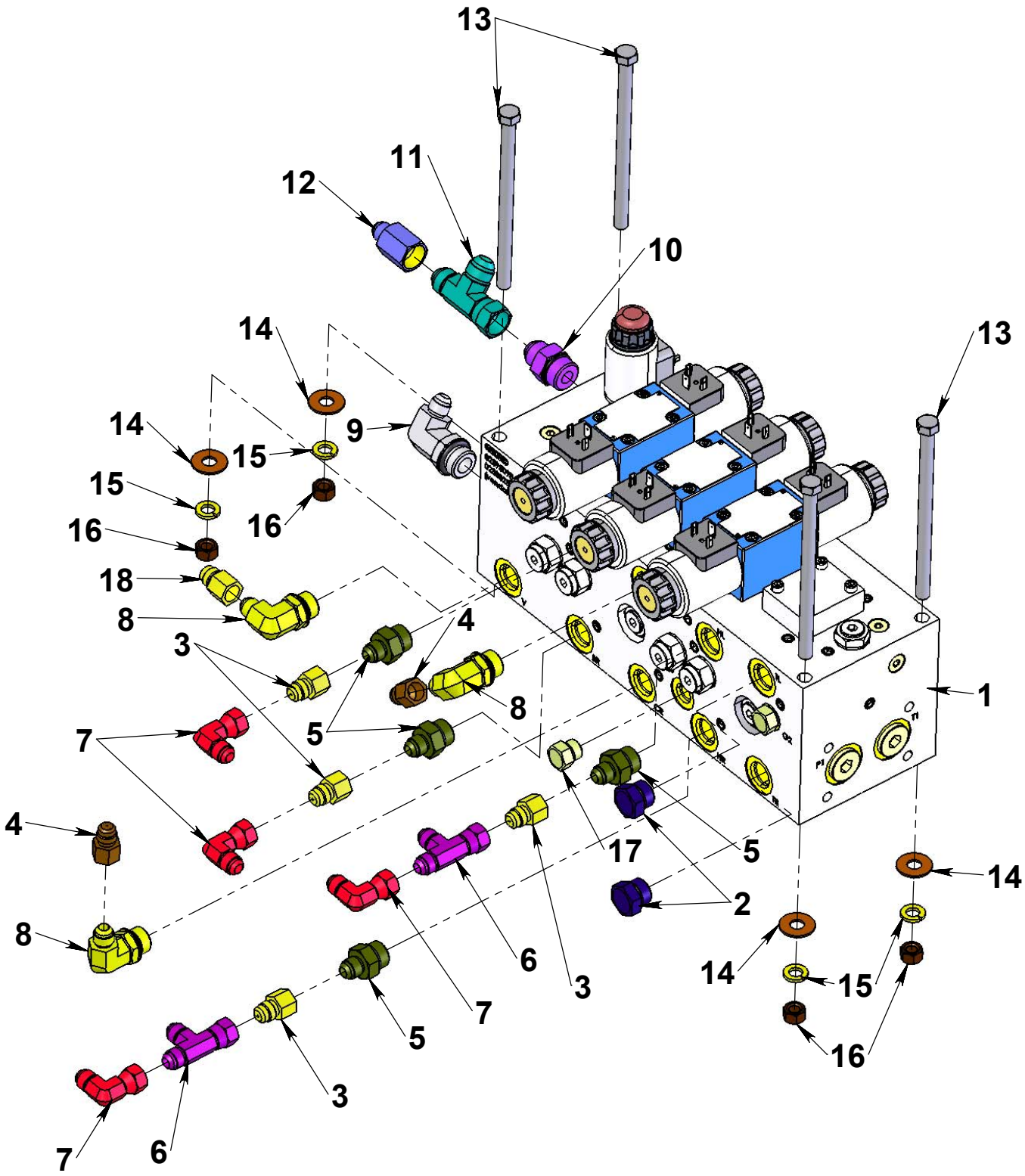
PREVIOUS PAGE

# C-1 DUMP HOPPER HYDRAULICS
# ( 226801-01 )




| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 226800-02 | ASSY - C1 HOPPER CONTROLS MANIFOLD | 1 |
| 2 | 206666-01 | CYL - HYD 3" BORE X 8" STROKE | 2 |
| 3 | 97482-01 | CYL - 2 1/2" BORE X 12" STROKE | 1 |
| 4 | 215523-01 | CYL - 3" BORE X 15 3/4" STROKE | 1 |
| 5 | 99965 | CLMAP - 2" RUBBERIZED TUBE | 5 |
| 6 | 83055 | HEX NUT - 3/8-16 GR8 | 16 |
| 7 | 16P29 | CLAMP - BOLT SIZE 1/2" HOSE | 7 |
| 8 | 83056 | LOCK WASHER - 3/8" SPRING STEEL | 16 |
| 9 | 27D66 | PIN - COTTER 3/16 X 2" | 4 |
| 10 | 83735-04 | FIT - ADAPTER 6 JIC - 6 SAE MALE | 2 |
| 11 | 84426-04 | FIT - 6 JIC - 8 SAE 90 DEG. MALE | 6 |
| 12 | 147412-04 | CLAMP - 1 9/16" ID 3/8" BOLT HOLE | 10 |
| 13 | 84332 | HEX BOLT - 3/8-16 X 1" | 13 |
| 14 | 83757 | FLAT WASHER - 3/8" STEEL | 18 |
| 15 | 83288 | HEX NUT - 1/2-13 GR8 | 2 |
| 16 | 96476 | HEX BOLT - 3/8-16 X 1 1/4" | 2 |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

# ASSEMBLY ~ C1 HOPPER CONTROLS MANIFOLD (226800-02)

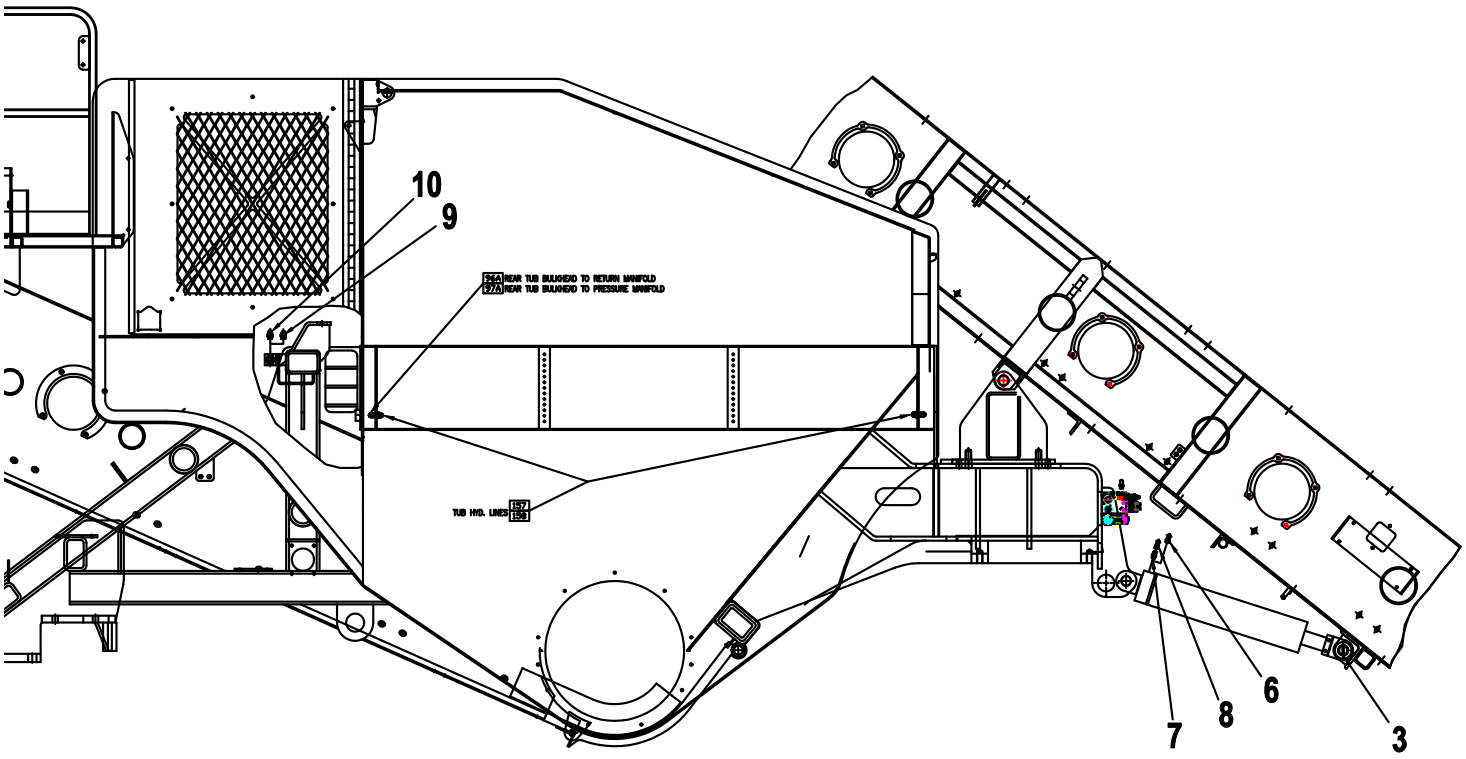


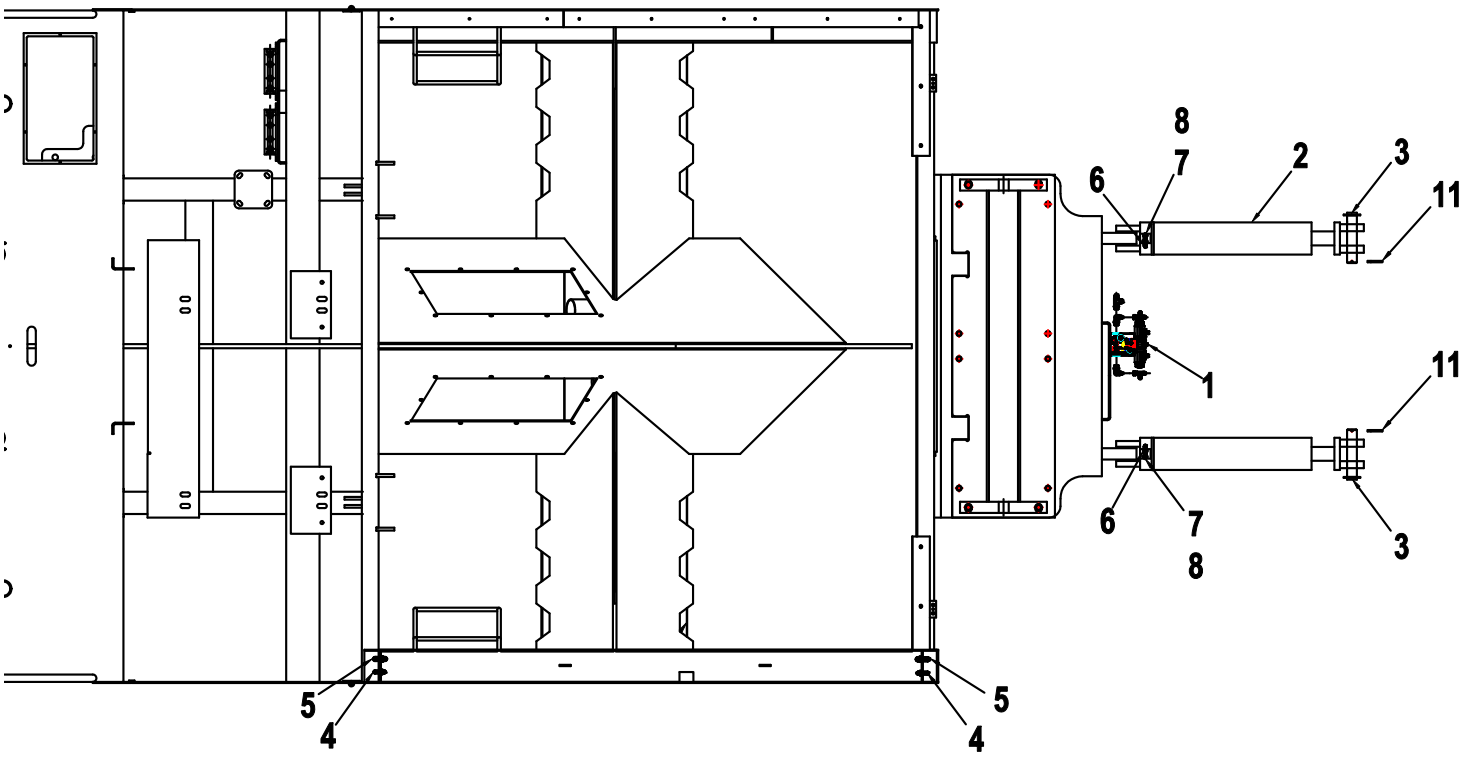
# ASSEMBLY ~ C1 HOPPER CONTROLS MANIFOLD (226800-02)

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

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

NEXT PAGE

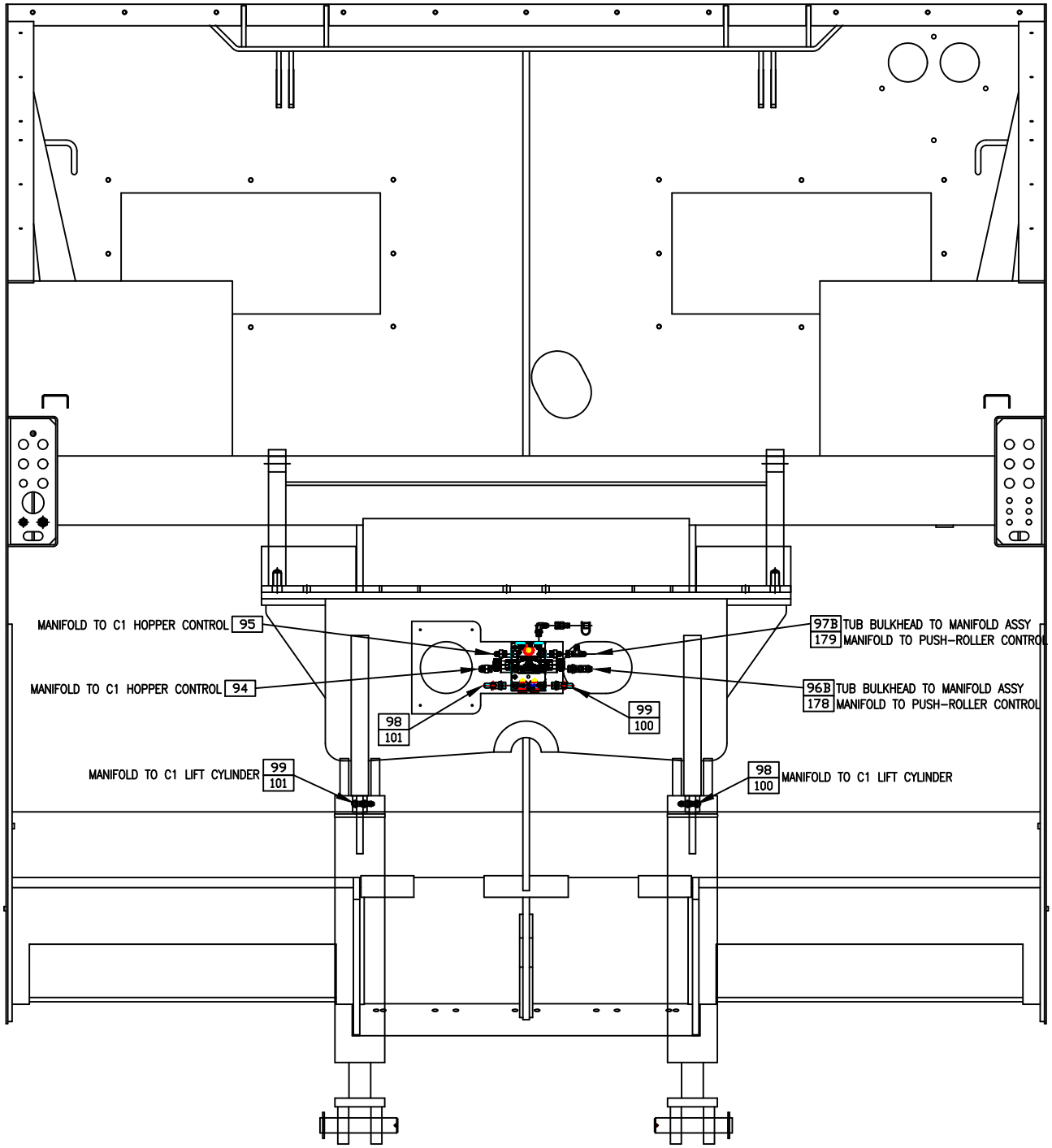





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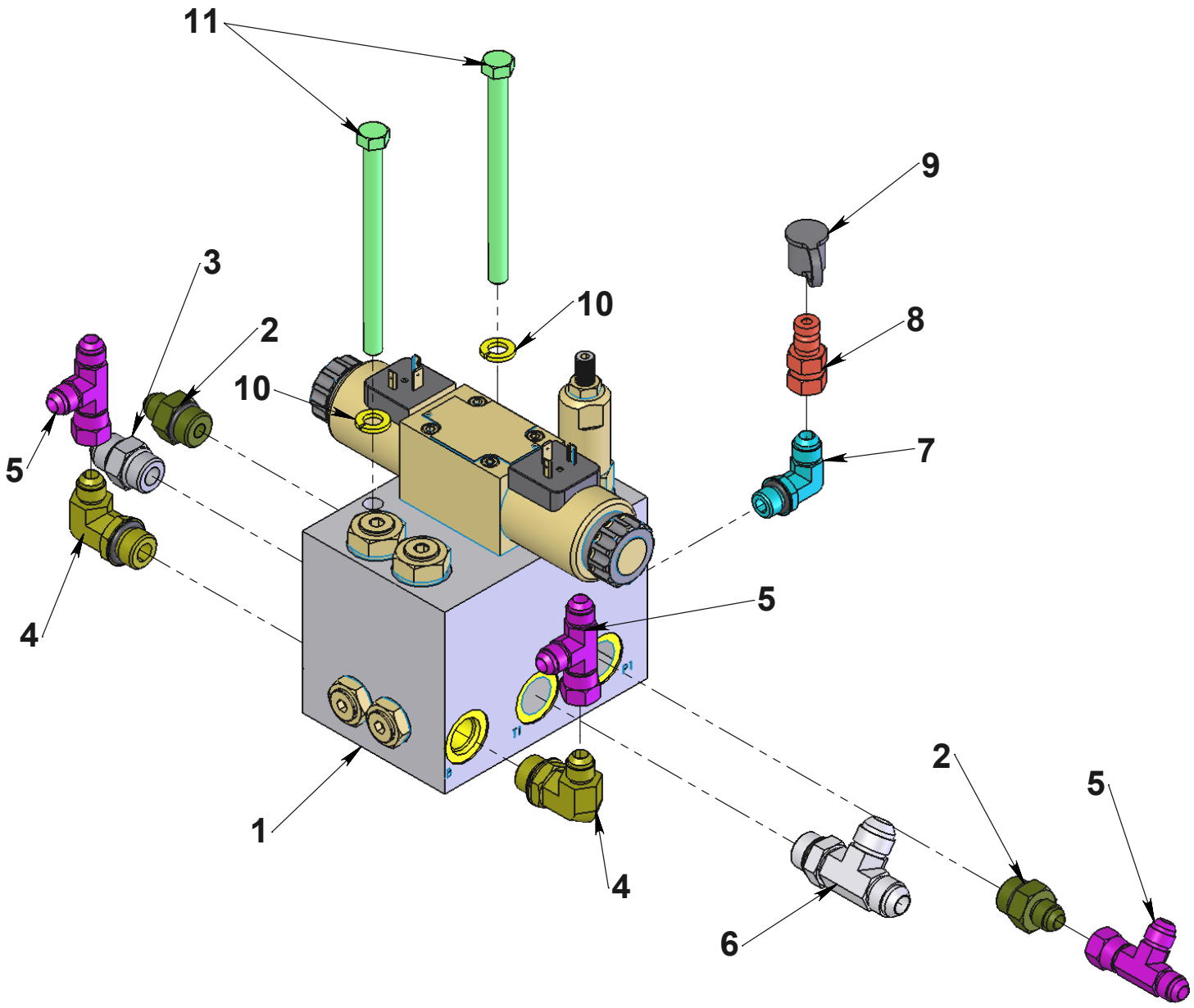
# C-1 RAISE / LOWER HYDRAULICS
# ( 214929-01 )



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

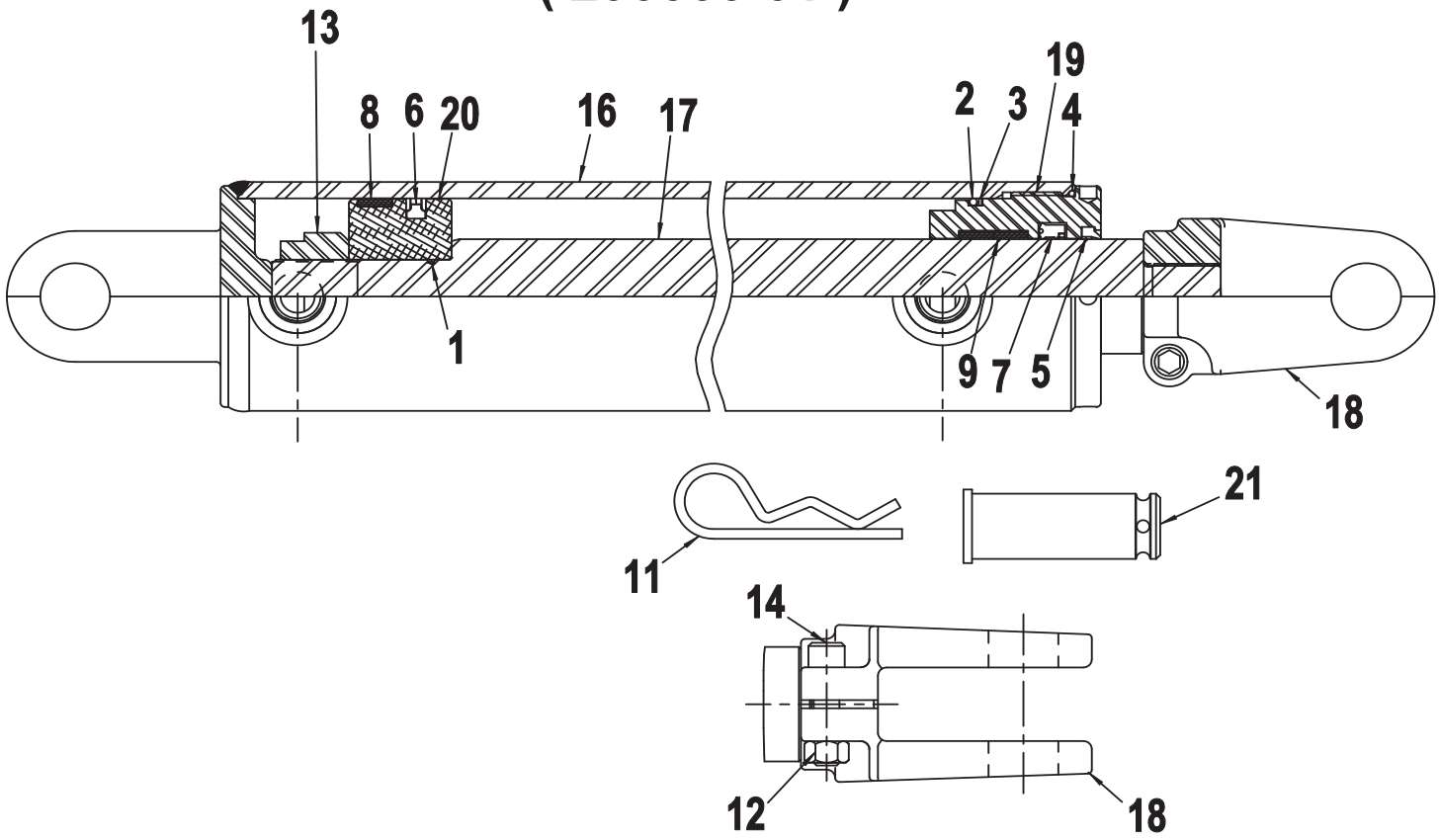
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 214885-03 | ASSY. - C-1 RAISE / LOWER MANIFOLD | 1 |
| **2** | 207380-01 | MODIFIED C-1 LIFT CYLINDER | 2 |
| **3** | 149428-03 | PIN WELDMENT - C-1 LIFT CYL. ROD END | 2 |
| **4** | 83475-04 | FIT - 6 JIC X 6 JIC BULKHEAD | 2 |
|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

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



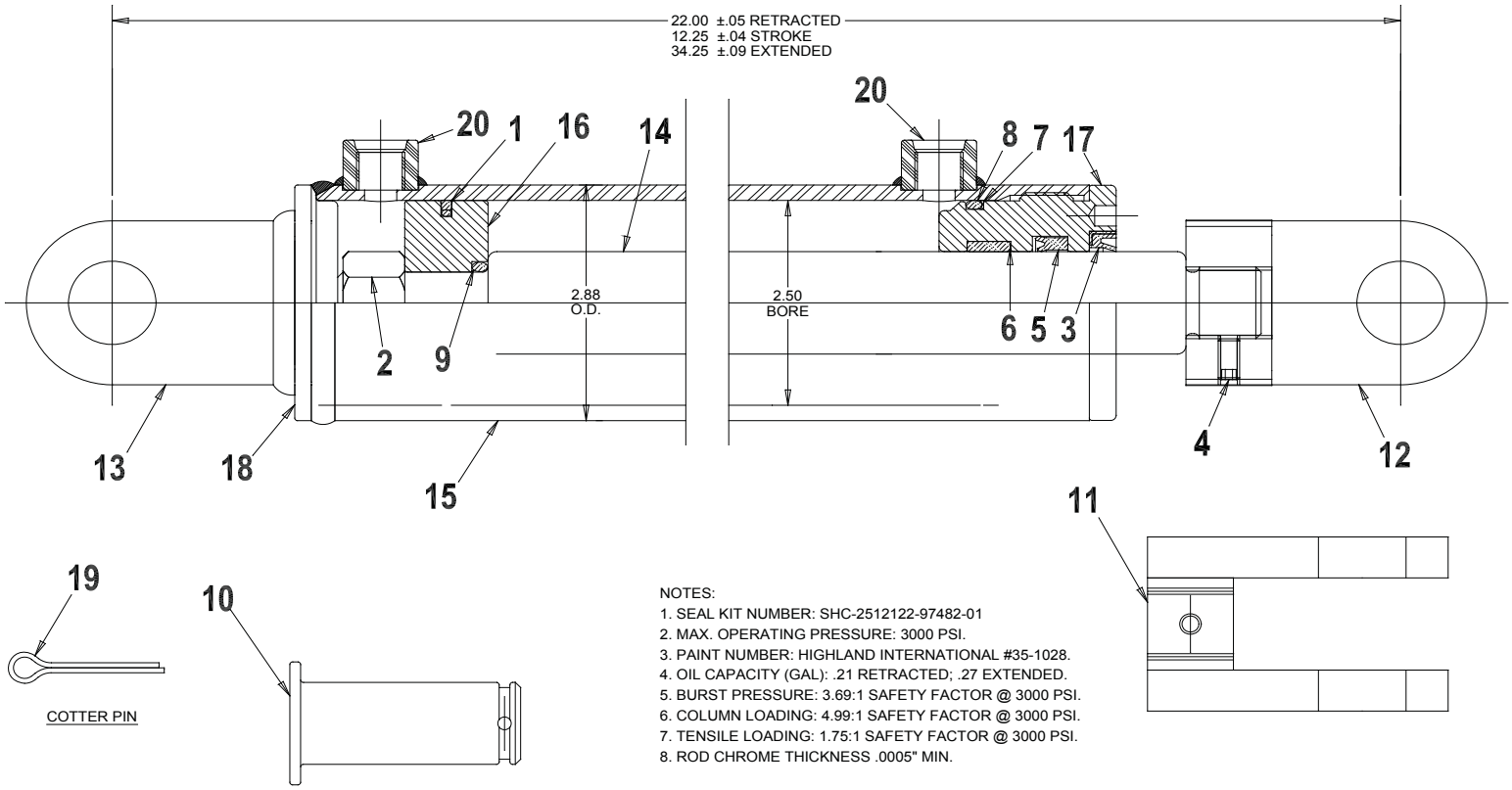

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 211537-01 | MANIFOLD * C1 RAISE/LOWER | 1 |
| 2 | 83469-04 | FIT ~ CONNECTOR 6 JIC - 8 SAE MALE | 2 |
| 3 | 83459-04 | FIT ~ CONNECTOR 8 JIC x 8 SAE MALE | 1 |
| 4 | 84426-04 | FIT * 6 JIC - 8 SAE 90 DEG. MALE | 2 |
| 5 | 84636-04 | FIT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

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




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

# CYLINDER, HOPPER RAISE
# ( 97482-01 )



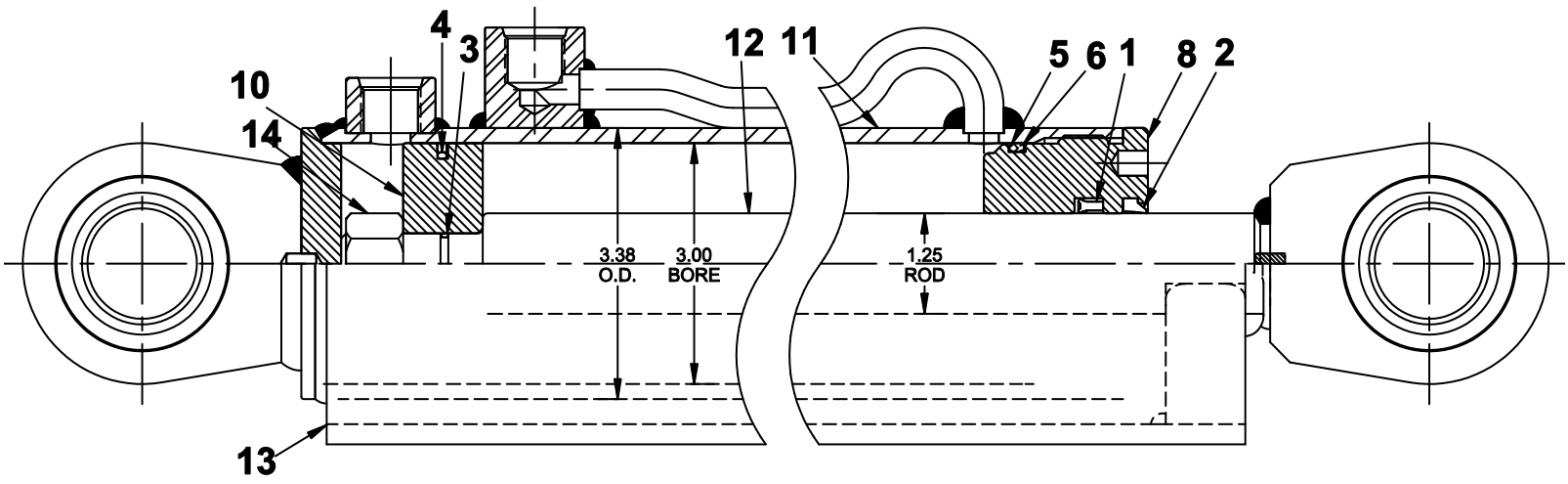


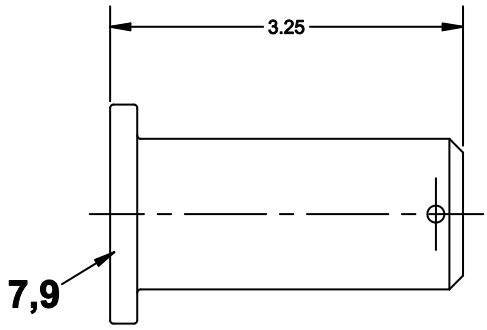


NOTES:
1. SEAL KIT NUMBER: SHC-2512122-97482-01
2. MAX. OPERATING PRESSURE: 3000 PSI.
3. PAINT NUMBER: HIGHLAND INTERNATIONAL #35-1028.
4. OIL CAPACITY (GAL): .21 RETRACTED; .27 EXTENDED.
5. BURST PRESSURE: 3.69:1 SAFETY FACTOR @ 3000 PSI.
6. COLUMN LOADING: 4.99:1 SAFETY FACTOR @ 3000 PSI.
7. TENSILE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

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

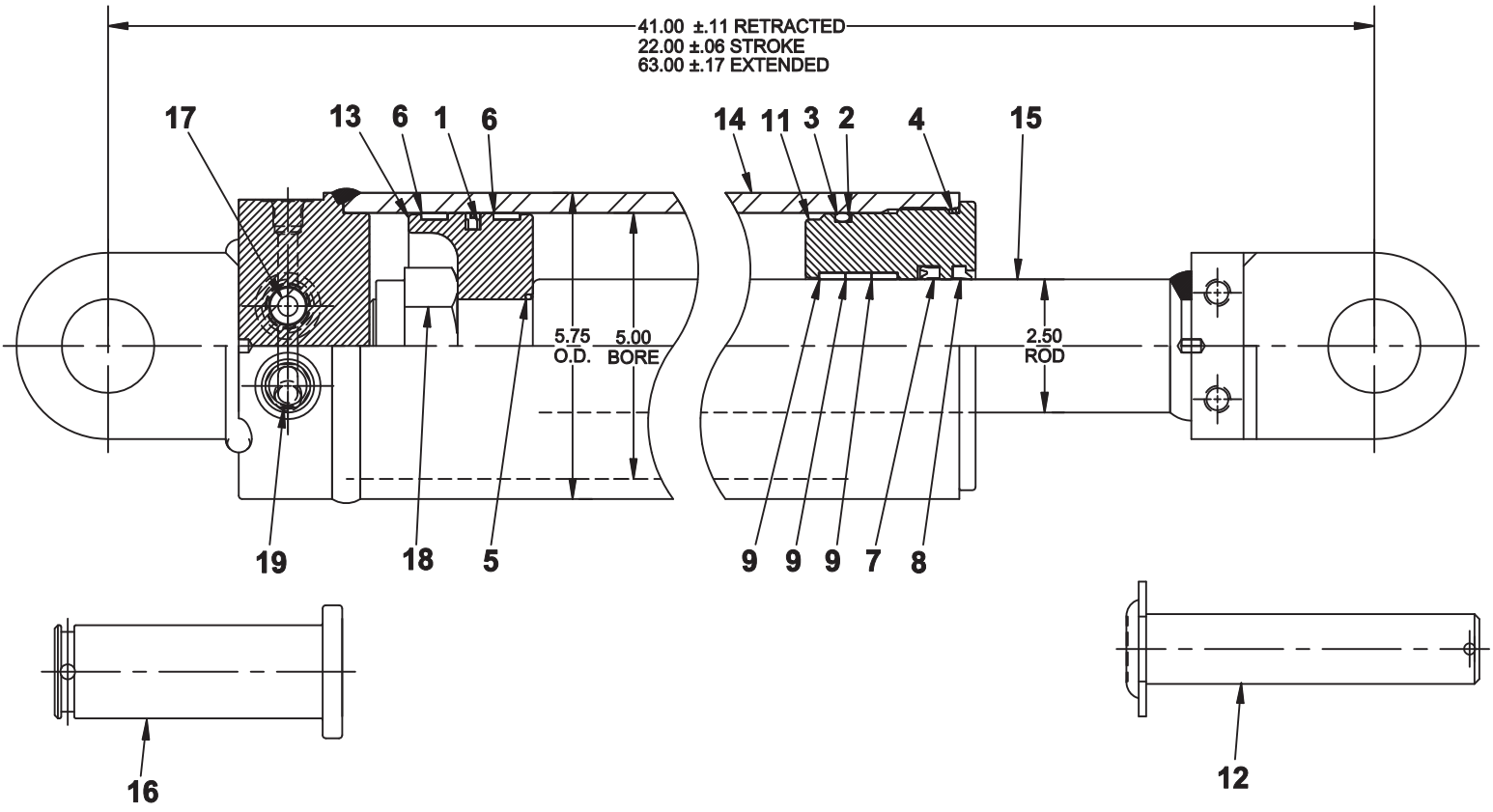
# CYLINDER ,C-1 BAFFLE
# (215523-01)



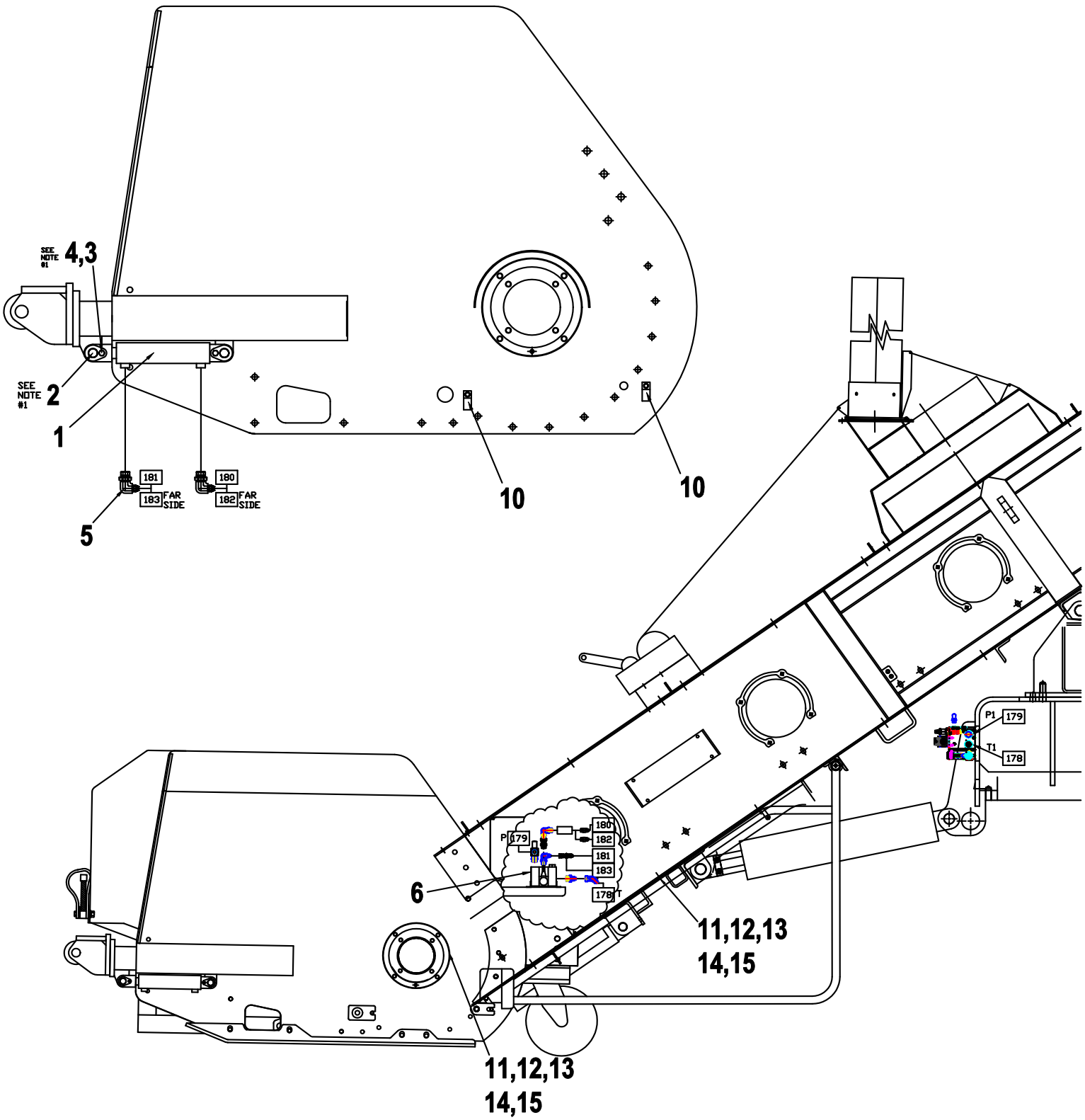

| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 215523-01-C9 | POLY PAK | 1 |
| 2 | 215523-01-C10 | WIPER | 1 |
| 3 | 215523-01-C11 | O-RING | 1 |
| 4 | 215523-01-C12 | PISTON SEAL | 1 |
| 5 | 215523-01-C13 | O-RING | 1 |
| 6 | 215523-01-C14 | BACK-UP | 1 |
| 7 | 215523-01-C2 | COTTER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

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




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

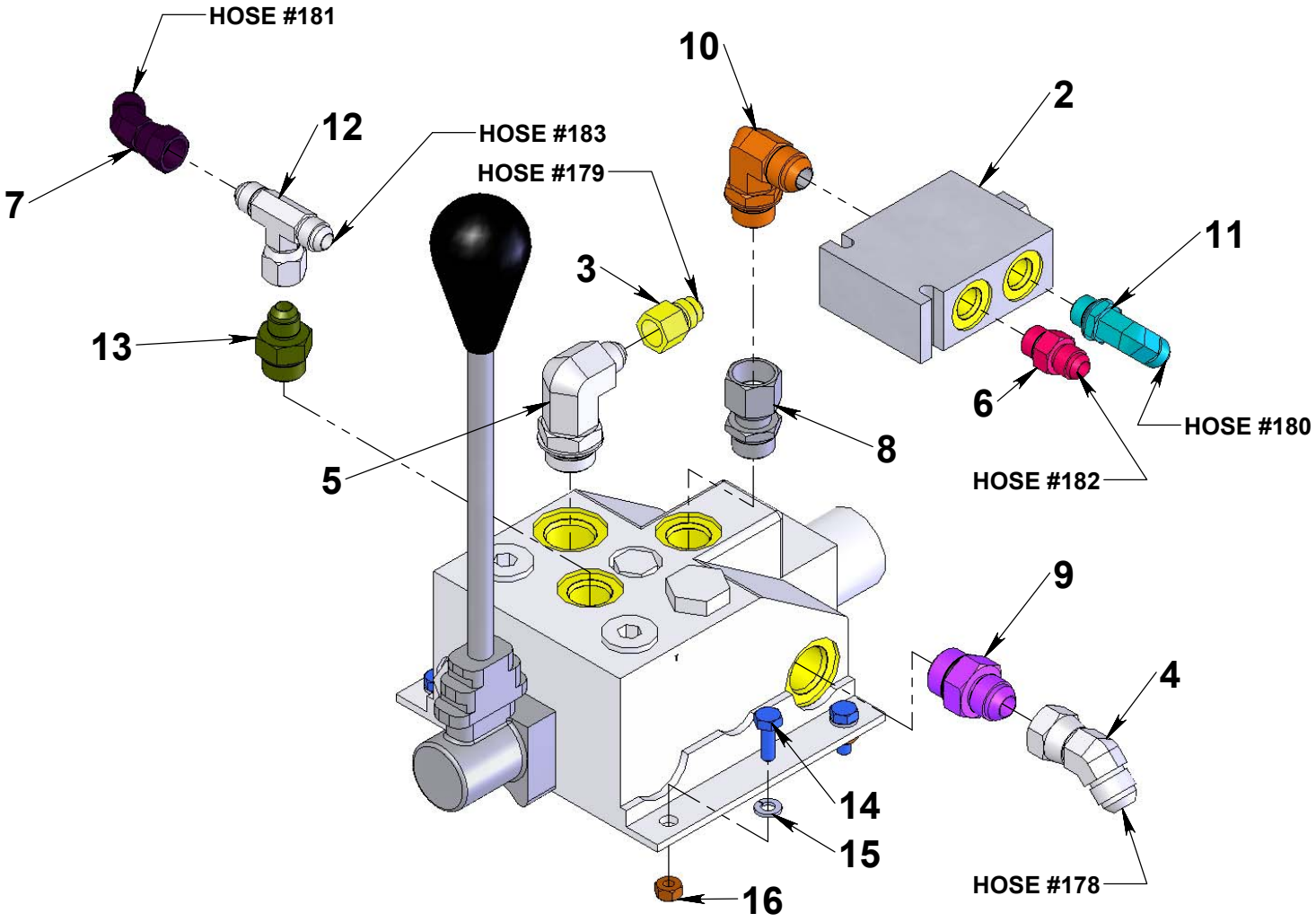
# PUSH ROLLER HYDRAULICS
# ( 209080-01 )



# PUSH ROLLER HYDRAULICS ASSY.
# (209080-01)

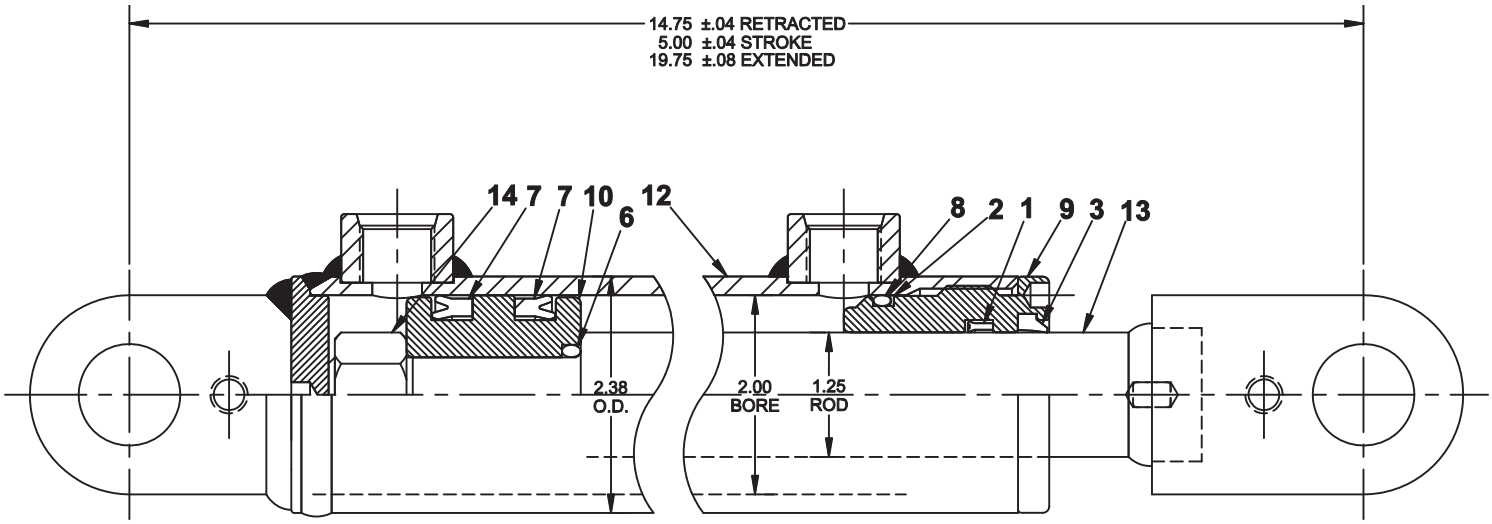
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 147955-03 | CYLINDER - 2.00 BORE X 5.00 STROKE | 2 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | 84426-04 | FIT - ELBOW 90 DEG - 8 SAE X 6 JIC MALE | 4 |
| 6 | 209079-02 | PUSH ROLLER MANIFOLD SUB-ASSY. | 1 |
| 7 | | | |
| 8 | | | |
| 9 | 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 | | | |

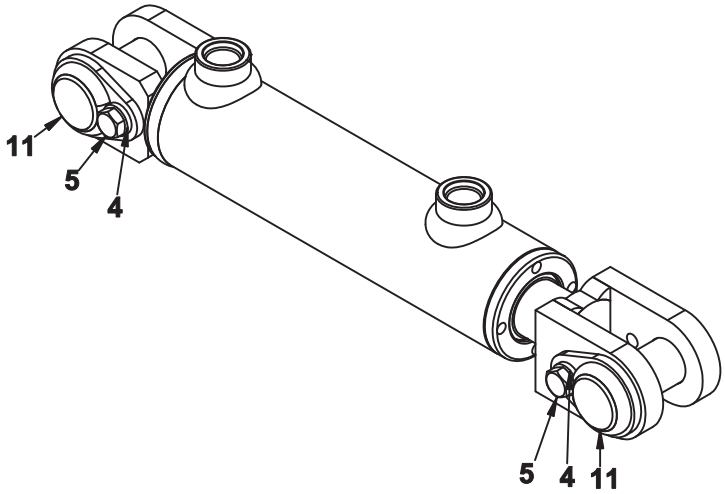
# ASSY-PUSH ROLLER MANIFOLD
# (209079-02)




| 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 )



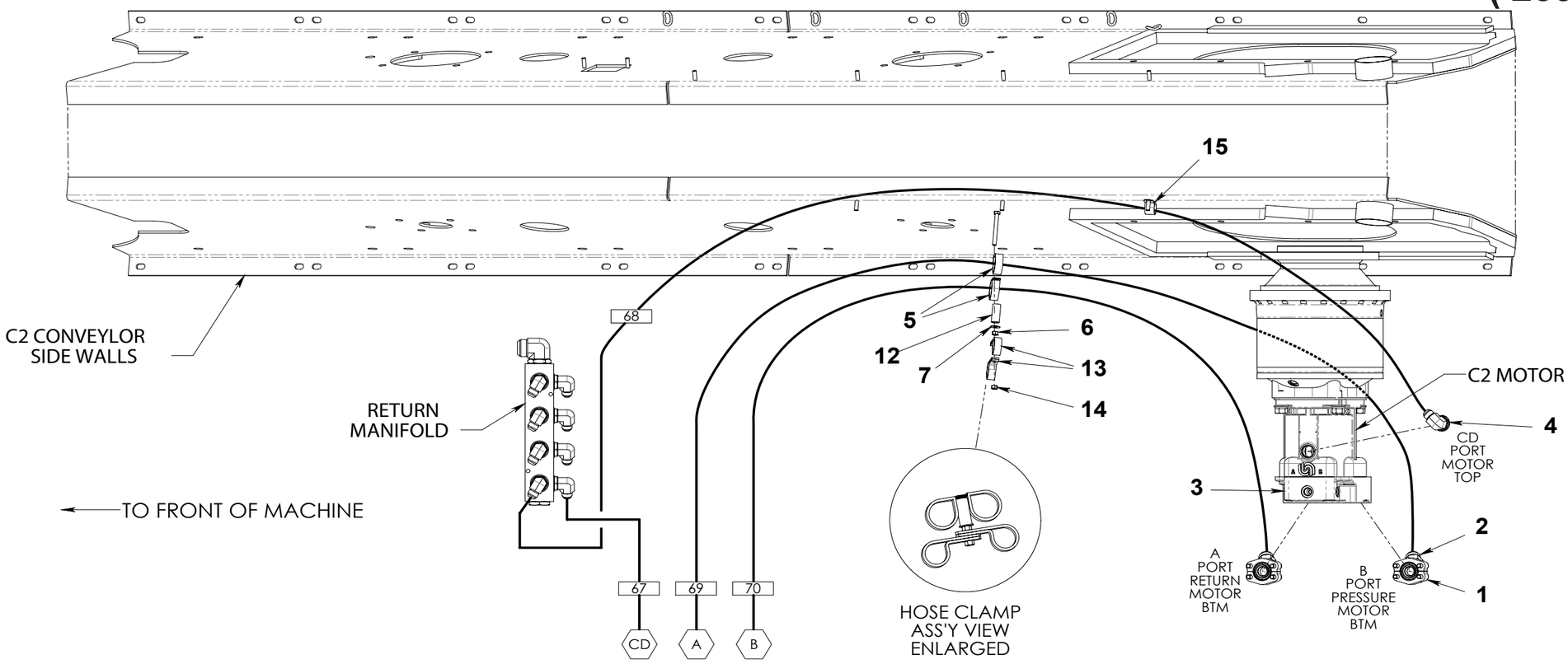

| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 147955-03-C8 | POLY PAK | 1 |
| 2 | 147955-03-C9 | BACK UP | 1 |
| 3 | 147955-03-C10 | WIPER | 1 |
| 4 | 147955-03-C11 | LOCK WASHER | 2 |
| 5 | 147955-03-C12 | HEX BOLT | 2 |
| 6 | 147955-03-C13 | O-RING | 1 |
| 7 | 147955-03-C14 | U-CUP | 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 | |

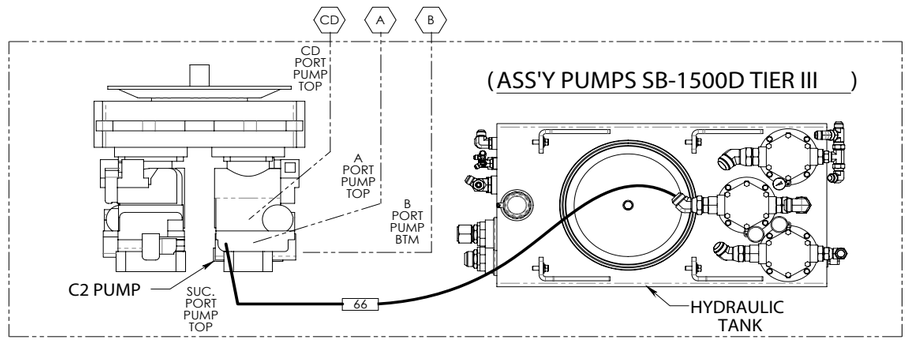
# ASSEMBLY- C2 DRIVE HYDRAULICS
# ( 239411-01 )

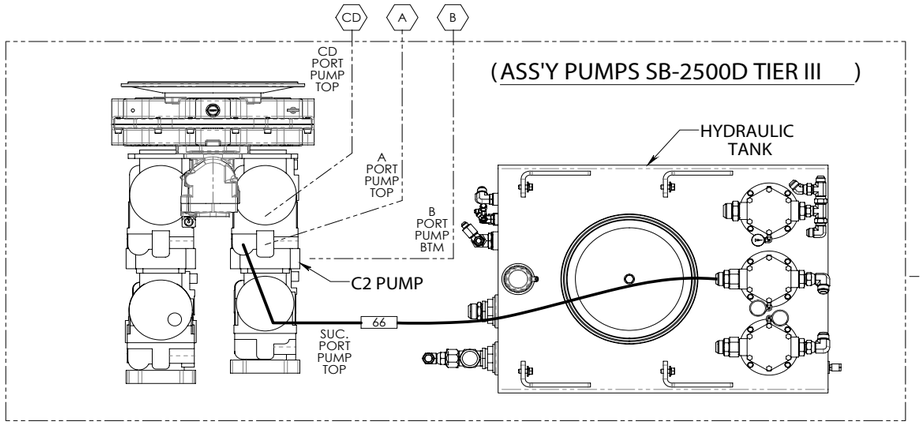
| ITEM # | PART # | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 96765 | KIT * FLANGE #20 CODE 62 | 2 |
| 2 | 99945 | FIT * 20 JIC. X 20 FLG. 45 CODE62 | 2 |
| 3 | 149224-04 | MOTOR * HYD. MOTOR-SERIES 90-130 CC | 1 |
| 4 | 85875-04 | FIT * ELBOW 12 JIC M - 16 SAE 90 | 1 |
| 5 | 99965 | CLAMP * 2" RUBBERIZED 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



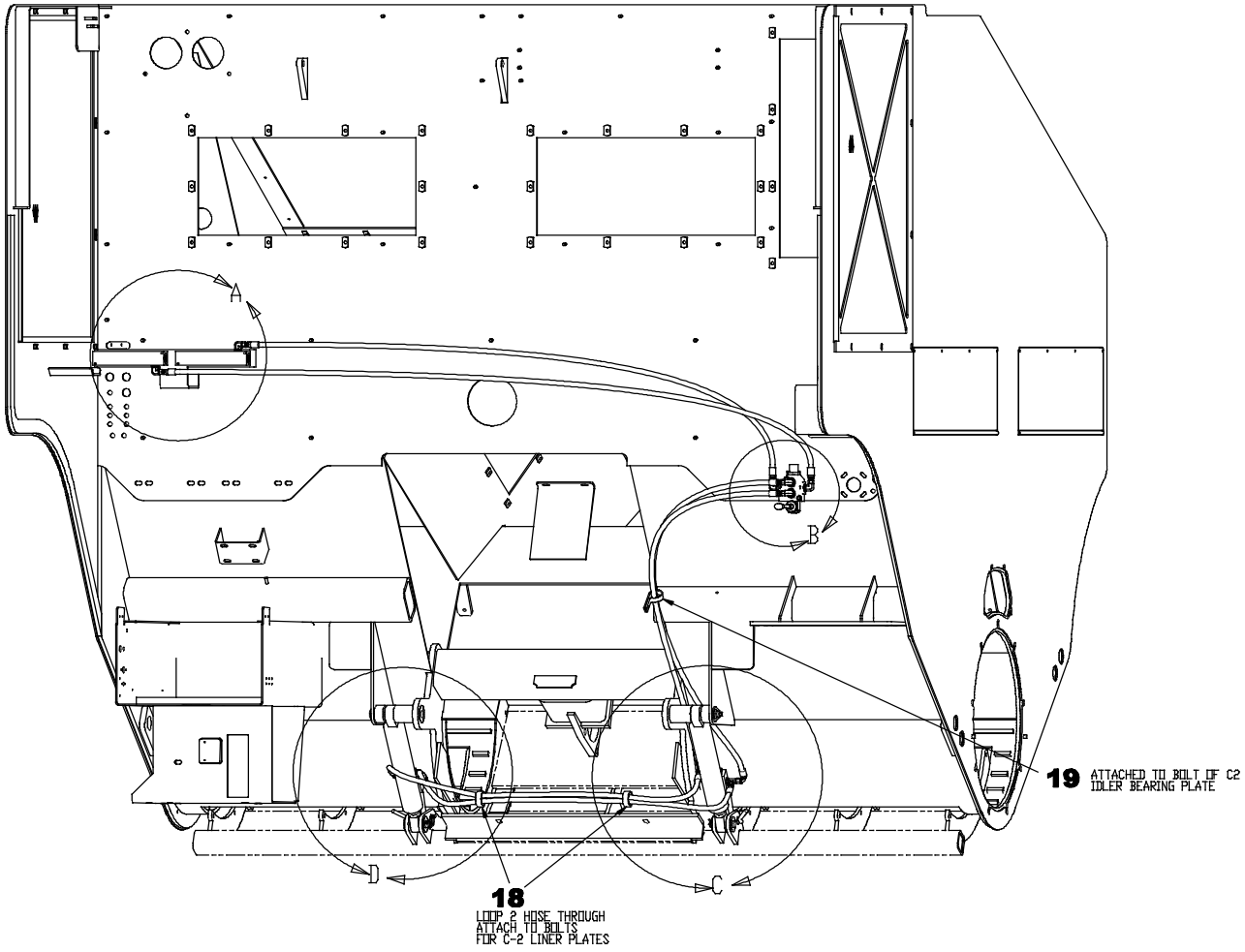



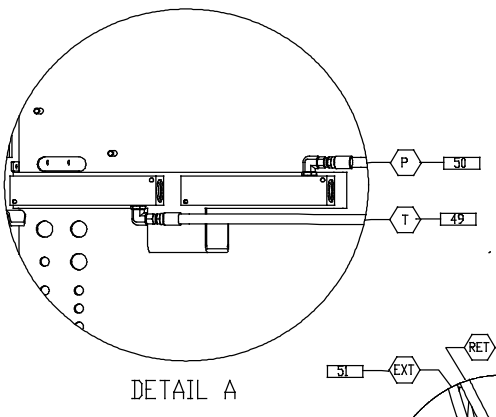



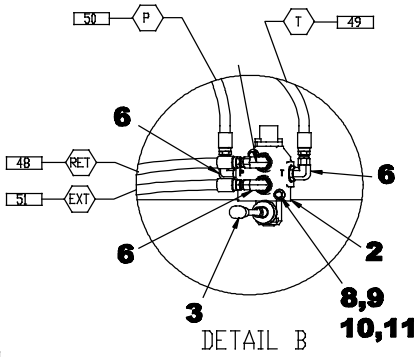


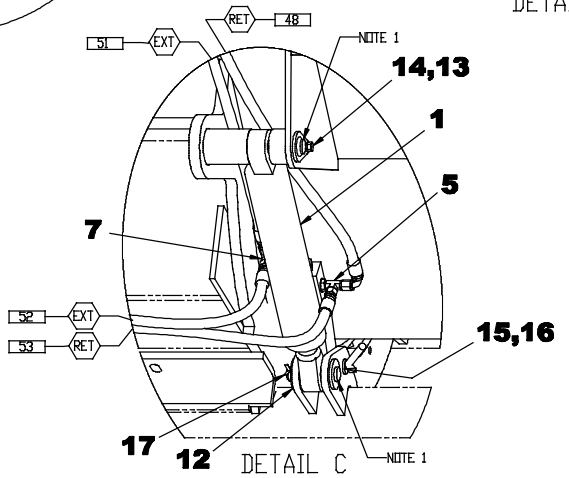

ROADTEC an Astec Industries Company

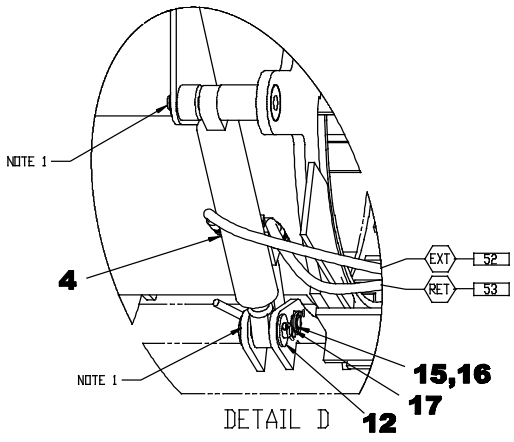
# C-2 CLEAN-OUT DOOR HYDRAULICS
# ( 226792-01 )



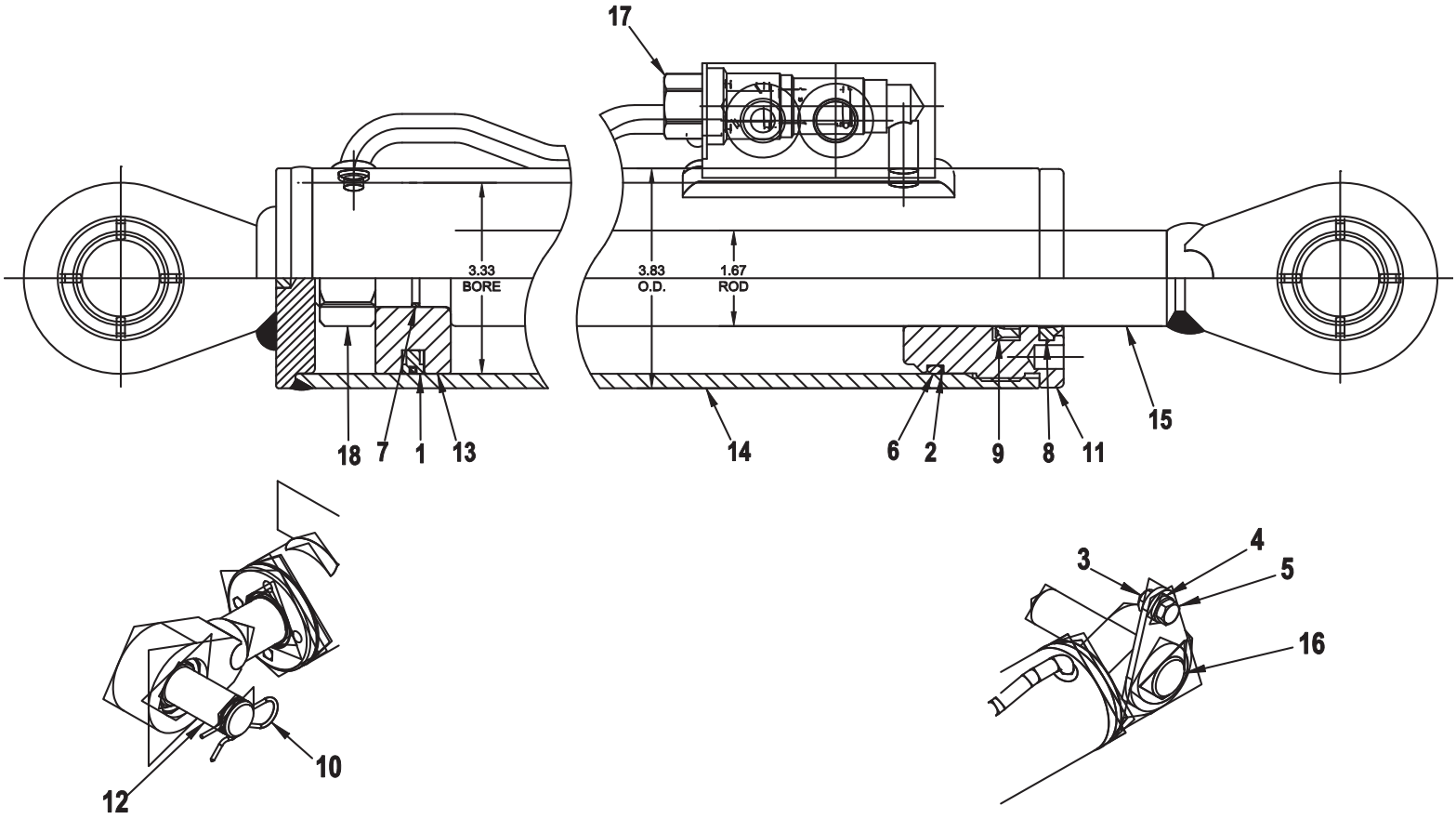



# C2 CLEANOUT DOOR HYDRAULICS ASSY. (226792-01)

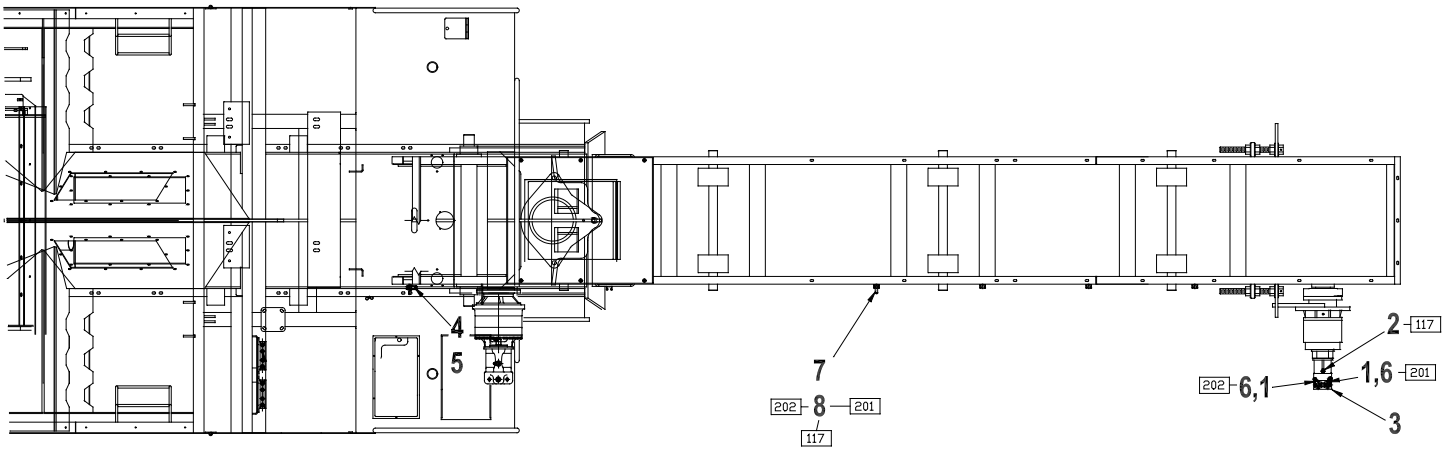
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 225738-01 | CYL - 2 1/2" BORE X 11" STROKE | 2 |
| 2 | 226301-04 | VALVE - MANUAL 4 WAY MOTOR SPOOL | 1 |
| 3 | 225060-03-C1 | CLOSED CENTER - 2 WAY LEVER VALVE HANDLE | 1 |
| 4 | 83734-04 | FIT - 6 JIC - 6 SAE 90 DEG. | 3 |
| 5 | 91665-04 | 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 | | | |

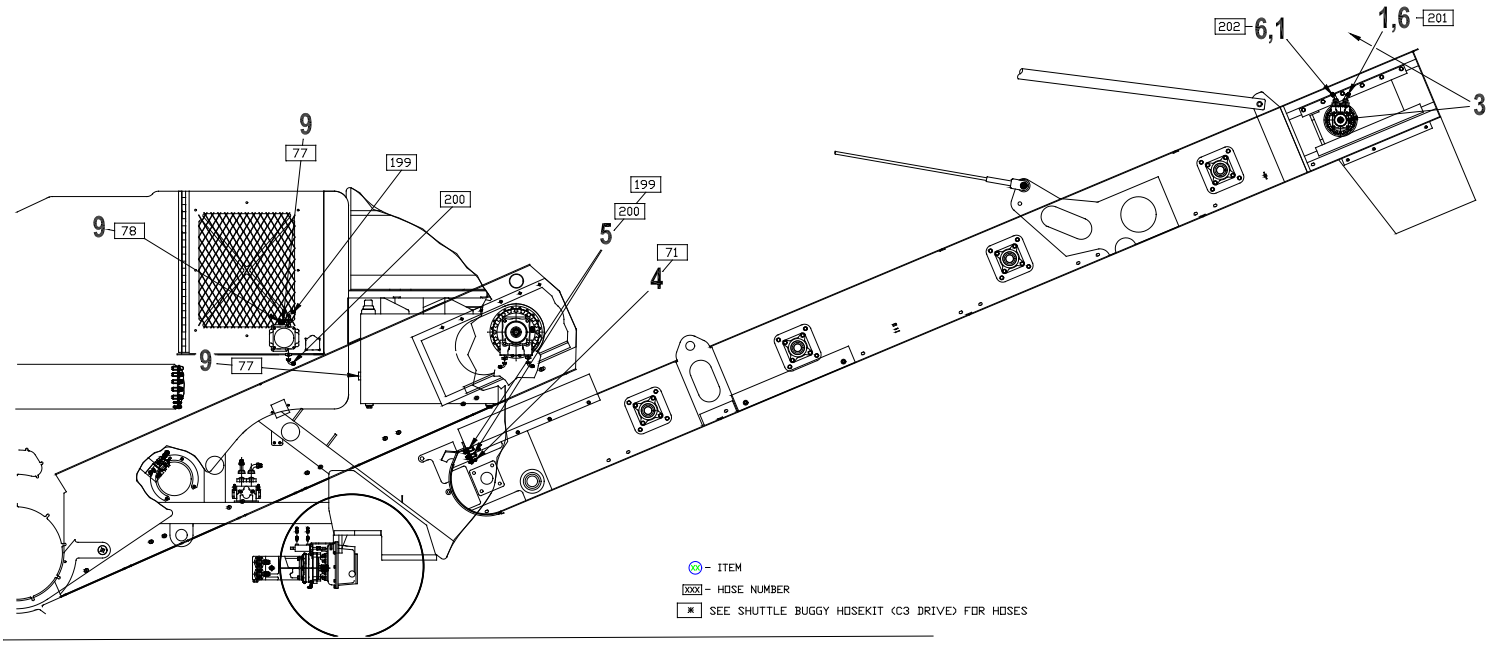
# CYLINDER, C-2 CLEAN-OUT
# ( 225738-01 )

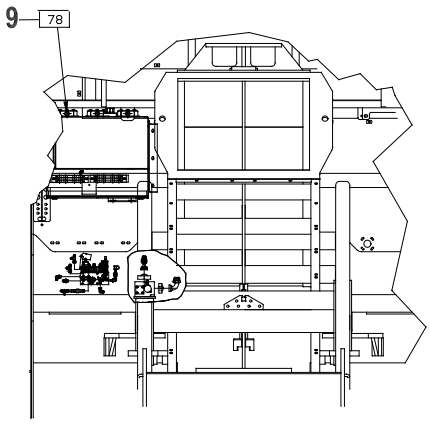



| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 225738-01-C2 | SEAL, PISTON | 1 |
| 2 | 225738-01-C3 | BACK-UP | 1 |
| 3 | 225738-01-C4 | HEX NUT | 1 |
| 4 | 225738-01-C5 | LOCK WASHER | 1 |
| 5 | 225738-01-C6 | HEX BOLT | 1 |
| 6 | 225738-01-C7 | O-RING | 1 |
| 7 | 225738-01-C8 | 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 )



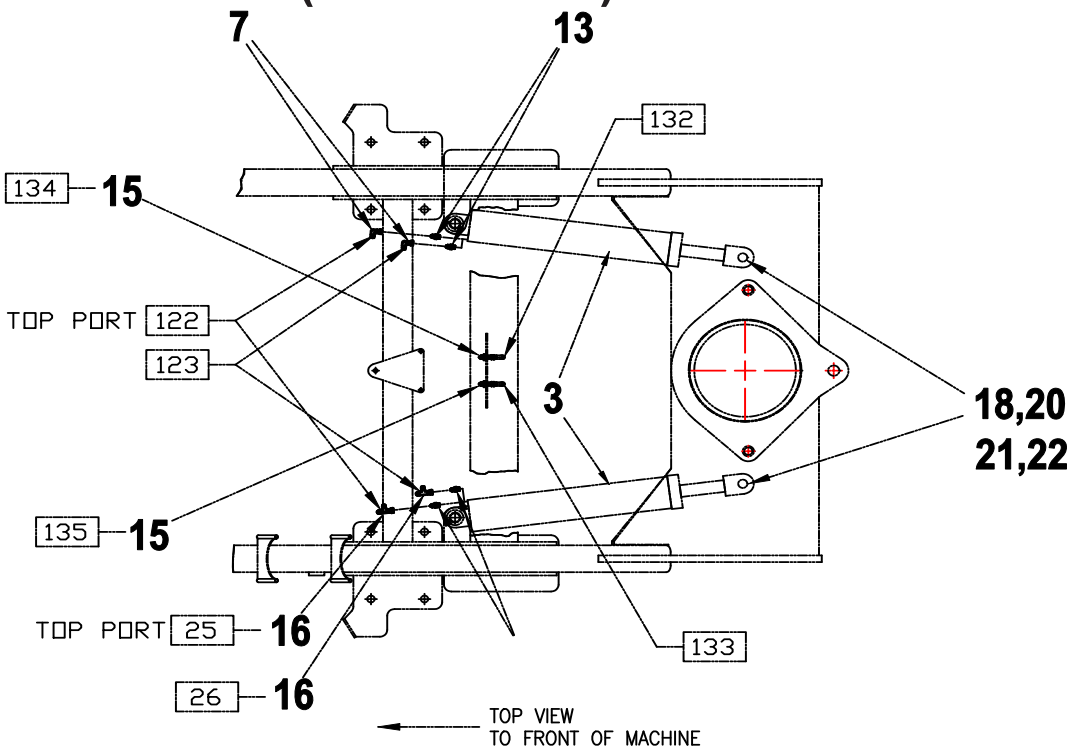



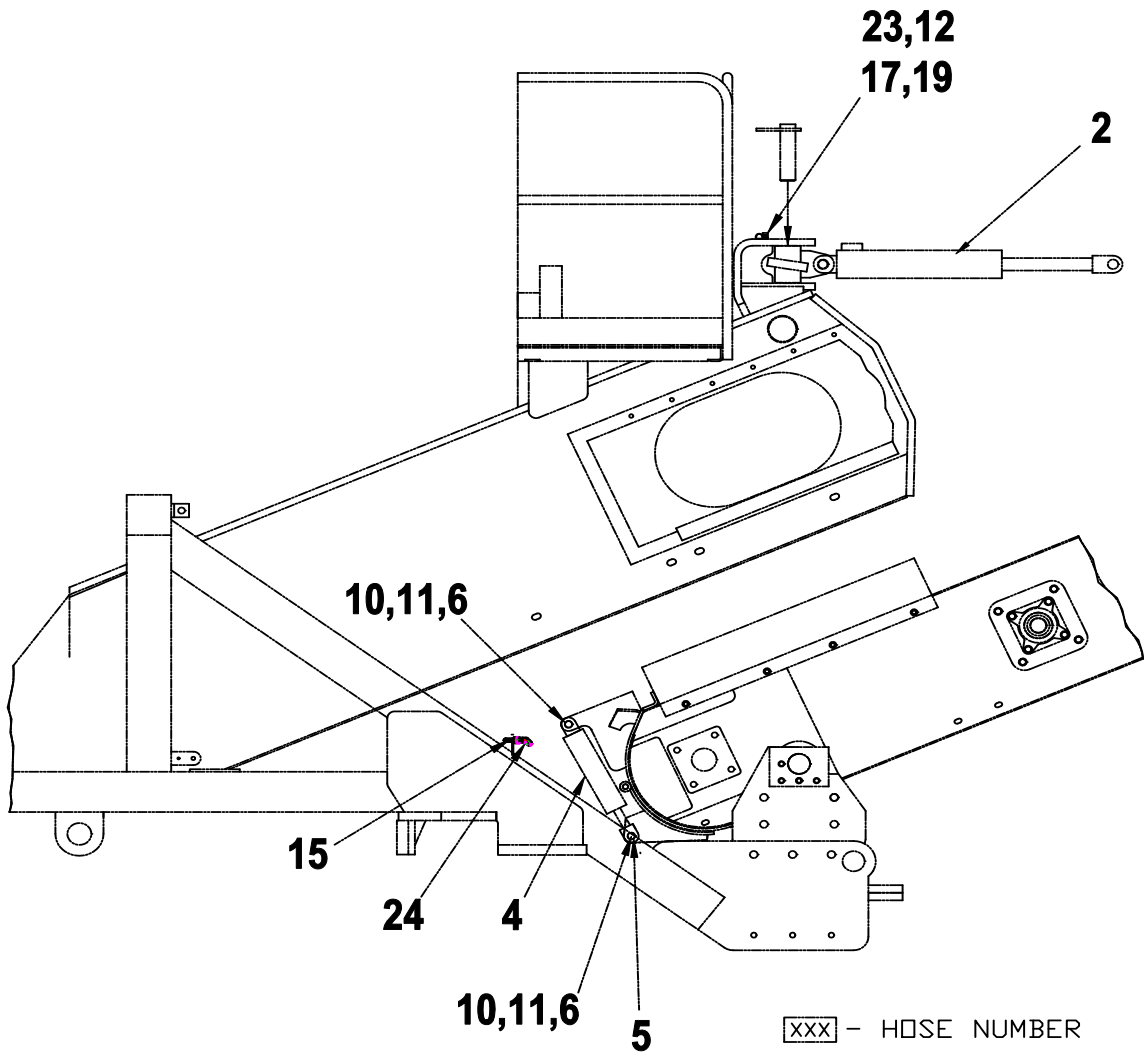
# C-3 DRIVE HYDRAULICS
# ( 145972-01 )

| 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 |

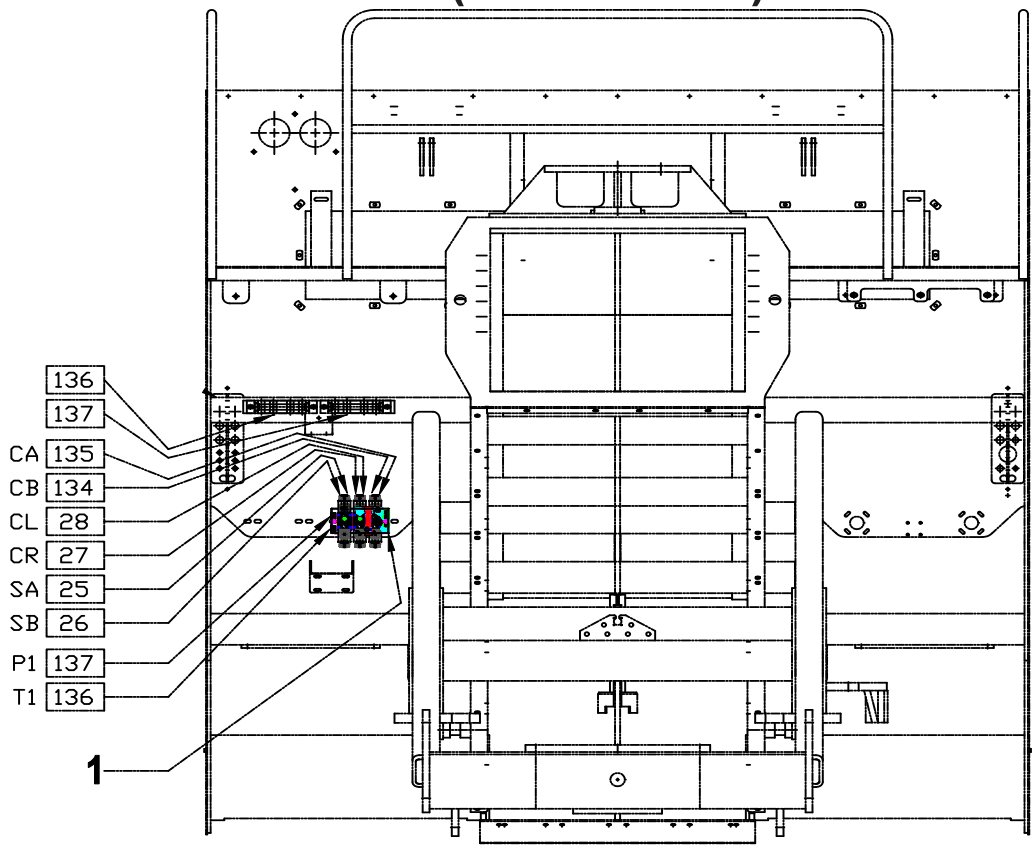
# C-3 CONTROL HYDRAULICS
# ( 214925-01 )

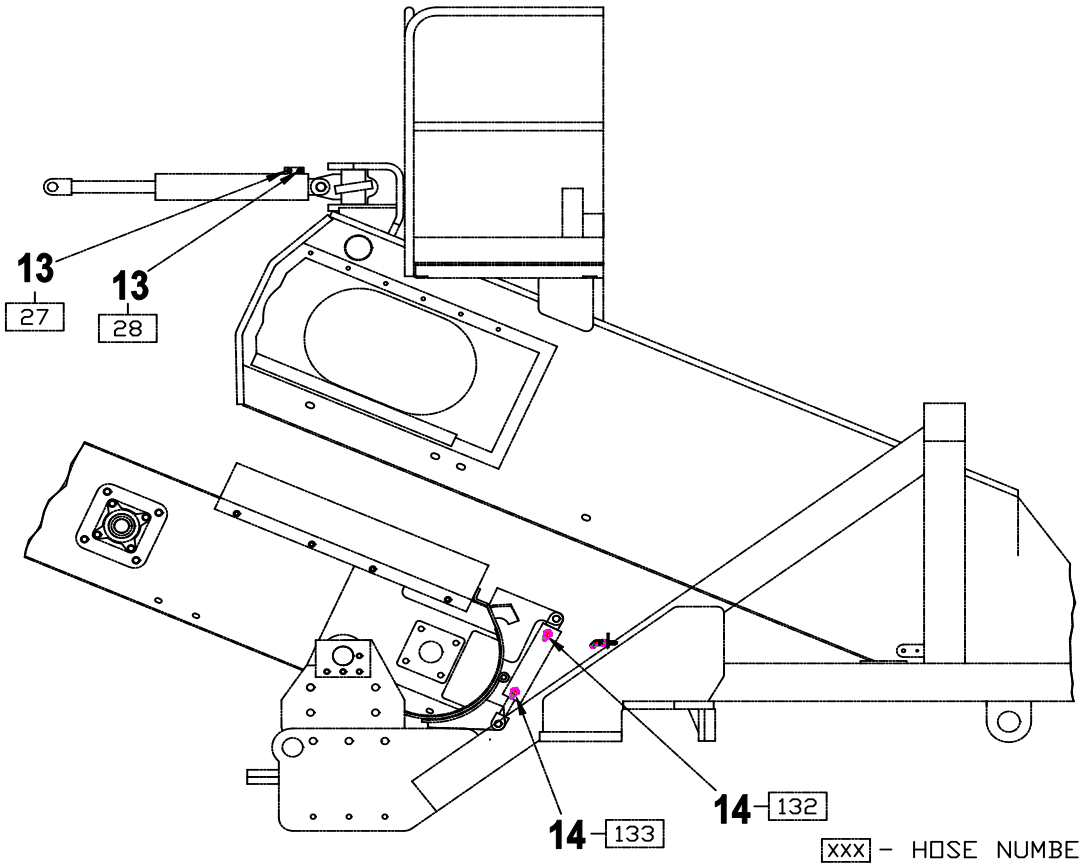
NEXT PAGE



# C-3 CONTROL HYDRAULICS
# ( 214925-01 )



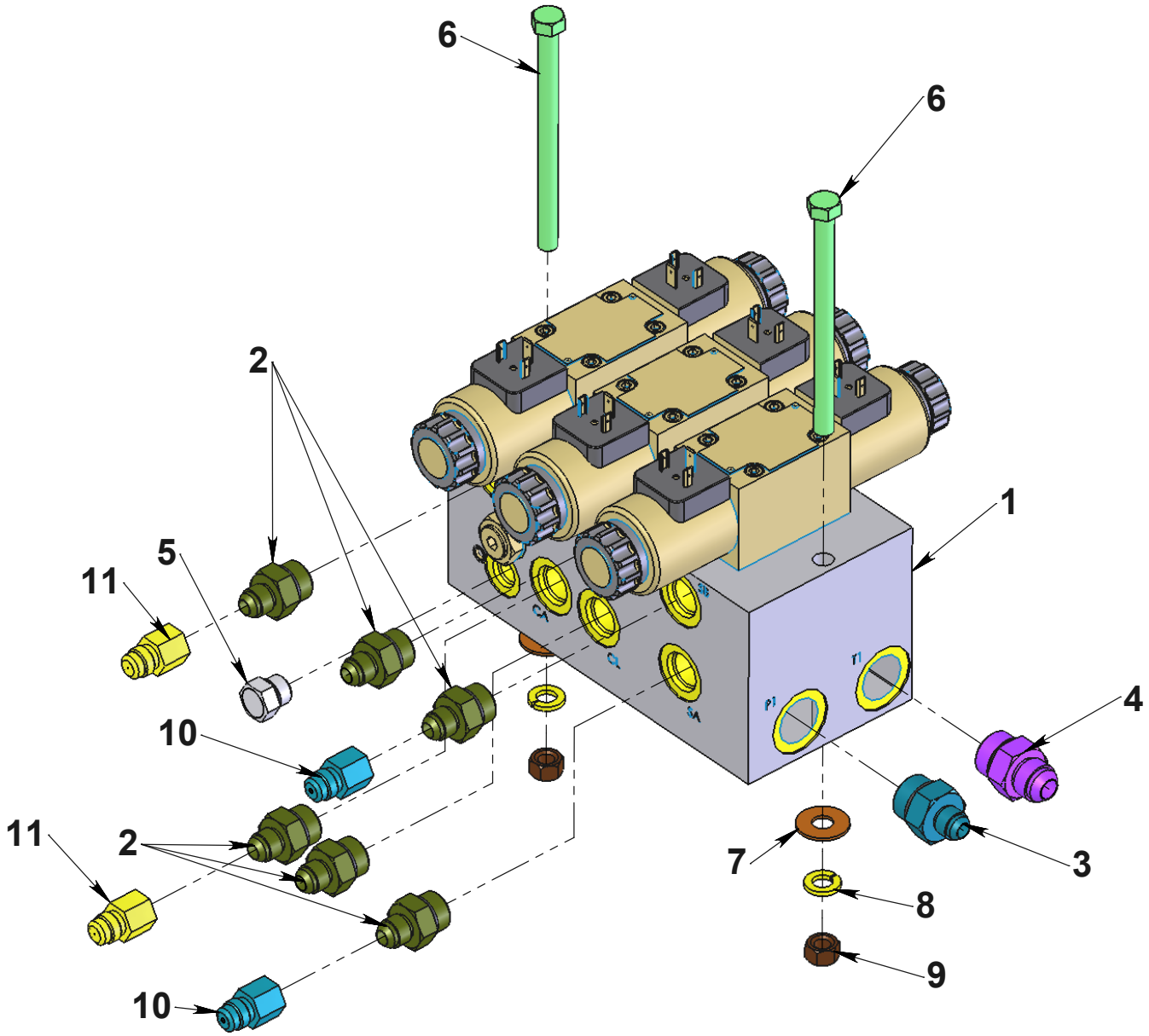




XXX – HOSE NUMBER

# C3 CONTROL HYDRAULICS ASSY.
# (214925-01)

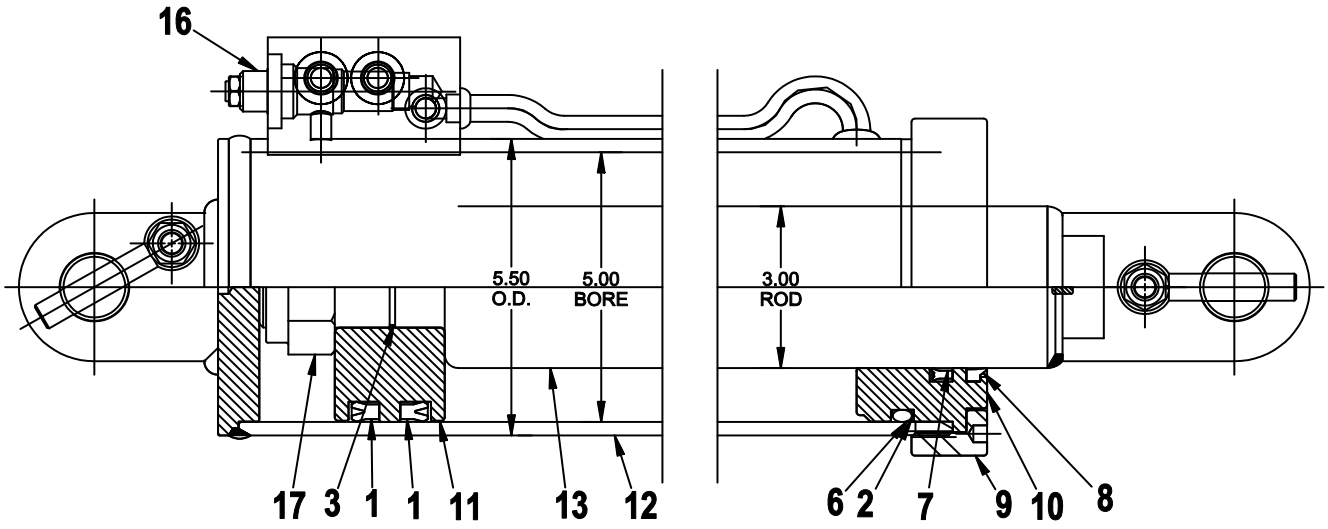
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 214886-02 | ASSY - C3 CONTROL MANIFOLD | 1 |
| 2 | 214518-01 | CYLINDER - 5.00 BORE X 26.00 STROKE | 1 |
| 3 | 144901-01 | CYLINDER - 4.00 BORE X 21.00 STROKE | 2 |
| 4 | 144899-01 | CYLINDER - 2.00 BORE X 4.50 STROKE | 1 |
| 5 | 83439-04 | ROD END - FEMALE 1 1/4" RH THD. | 1 |
| 6 | 10S89 | FLAT WASHER - 1" A325 | 2 |
| 7 | 83953-04 | FIT - FM SWIVEL ELBOW 6 JIC 90 DEG. | 2 |
| 8 | | | |
| 9 | | | |
| 10 | 149431-03 | PIN WLDMT - C3 CLEANOUT DOOR | 2 |
| 11 | 14493-04 | LYNCH PIN - 3/16" | 2 |
| 12 | 83065 | LOCK WASHER - 1/4" SPRING STEEL | 1 |
| 13 | 83735-04 | FIT - 6 JIC X 6 SAE MALE ADAPTER | 6 |
| 14 | 84426-04 | ELBOW 90 DEG. - 6 JIC - 8 SAE MALE | 2 |
| 15 | 83475-04 | BULKHEAD UNION ST - 6 JIC | 2 |
| 16 | 84636-04 | FIT - 6 JIC SW RUN TEE | 2 |
| 17 | 20K38 | CLAMP - 1 1/4" DIA. X 9/16" WTH | 2 |
| 18 | 86164 | HEX BOLT - 1/2-13 X 1 1/4" | 2 |
| 19 | 89773 | HEX BOLT - 1/4-20 X 1" GR8 | 1 |
| 20 | | | |
| 21 | 83781-04 | FLAT WASHER - 1/2" STEEL | 2 |
| 22 | 83317 | LOCK WASHER - 1/2" SPRING STEEL | 2 |
| 23 | 84444 | FLAT WASHER - 1/4"  STEEL | 1 |
| 24 | 90768-04 | FIT - CONNECTOR 6 JIC 45 DEG. SW | 2 |
| 25 | | | |

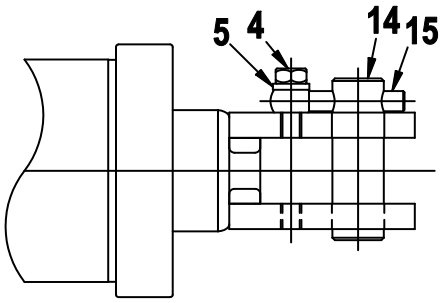
# ASSEMBLY ~ C3 CONTROL MANIFOLD (214886-02)




| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 211540-01 | MANIFOLD * C3 FUNCTIONS | 1 |
| 2 | 83469-04 | FIT ~ CONNECTOR 6 JIC - 8 SAE MALE | 6 |
| 3 | 133995-04 | FIT * 6 JIC X 10 SAE STR. | 1 |
| 4 | 83704-04 | FIT ~ CONNECTOR 8 JIC - 10 SAE MALE | 1 |
| 5 | 84635-04 | FIT * PLUG 6 SAE | 1 |
| 6 | 20N62 | BOLT * HEX 3/8"-16 X 5" | 2 |
| 7 | 83757 | WASHER ~ FLAT 3/8 STEEL | 2 |
| 8 | 83056 | WASHER ~ LOCK 3/8 SPRING STEEL | 2 |
| 9 | 83055 | NUT * 3/8-16 HEX GRADE 8 | 2 |
| 10 | 136649-04 | FIT ~ RESTRICTOR 3/32 ORIFICE | 2 |
| 11 | 135942-04 | FIT ~ RESTRICTOR 1/64 ORIFICE | 2 |

# CYLINDER, C-3 LIFT
# ( 214518-01 )

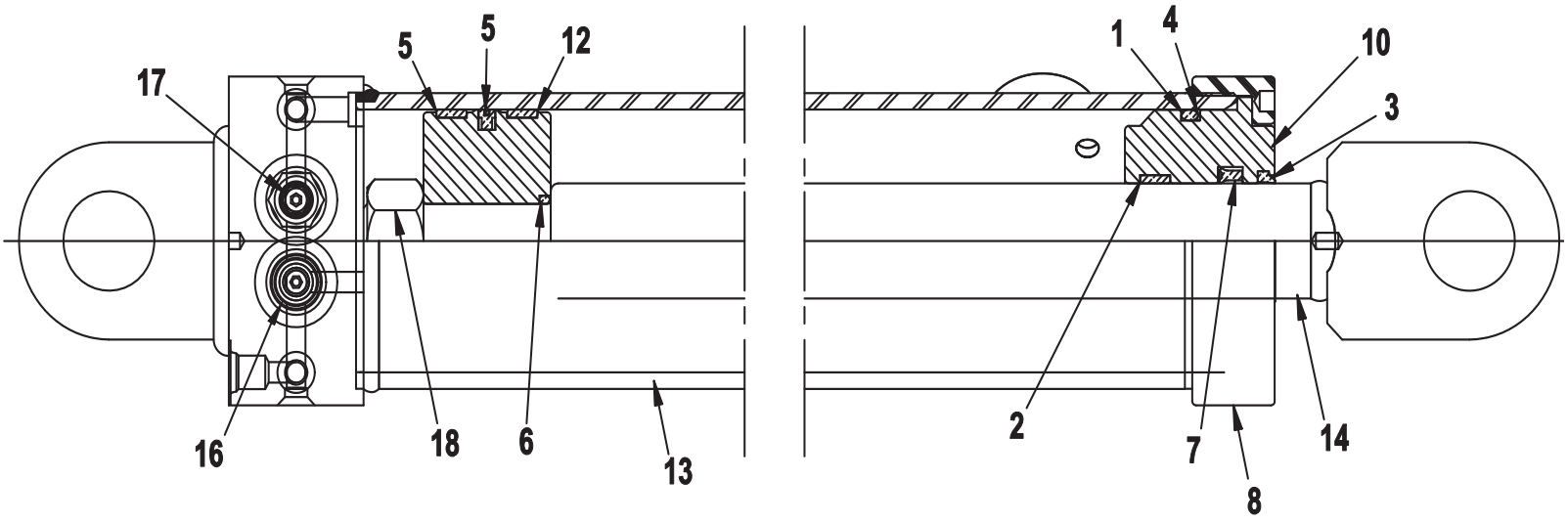



ROD END MOUNT DETAIL

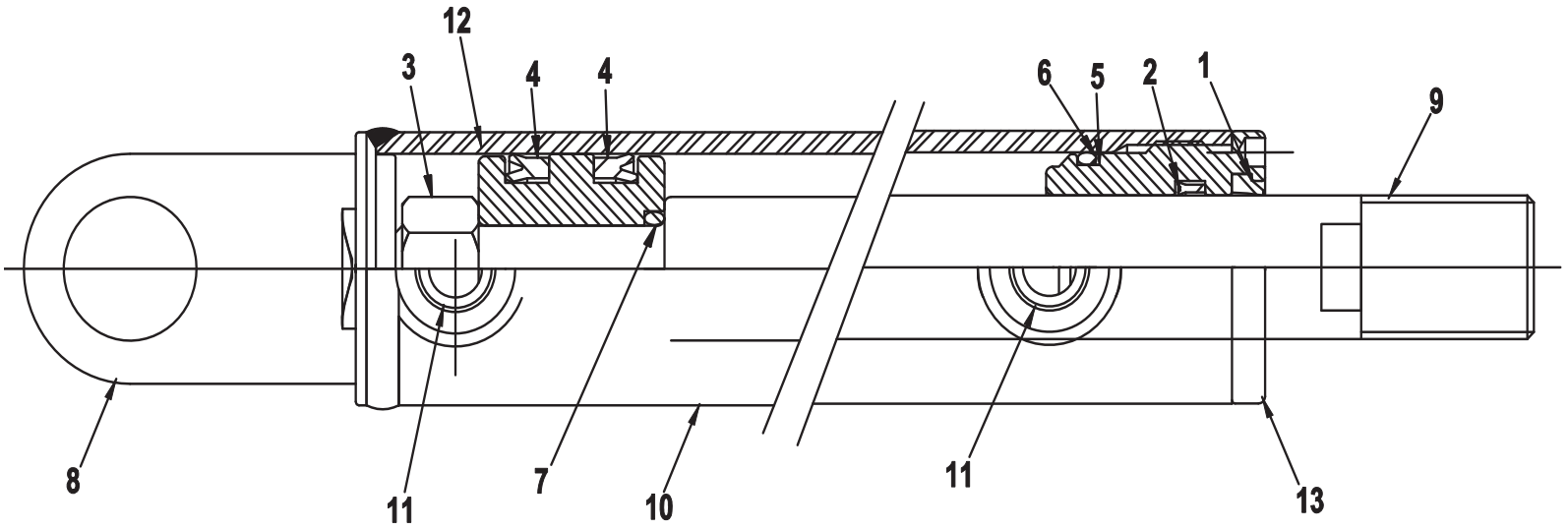
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 214518-01-C6 | U-CUP | 2 |
| 2 | 214518-01-C7 | BACK-UP | 1 |
| 3 | 214518-01-C8 | O-RING | 1 |
| 4 | 214518-01-C9 | HEX BOLT | 2 |
| 5 | 214518-01-C10 | LOCK WASHER | 2 |
| 6 | 214518-01-C11 | O-RING | 1 |
| 7 | 214518-01-C12 | POLY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

# CYLINDER, C-3 SWING
# ( 144901-01 )




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

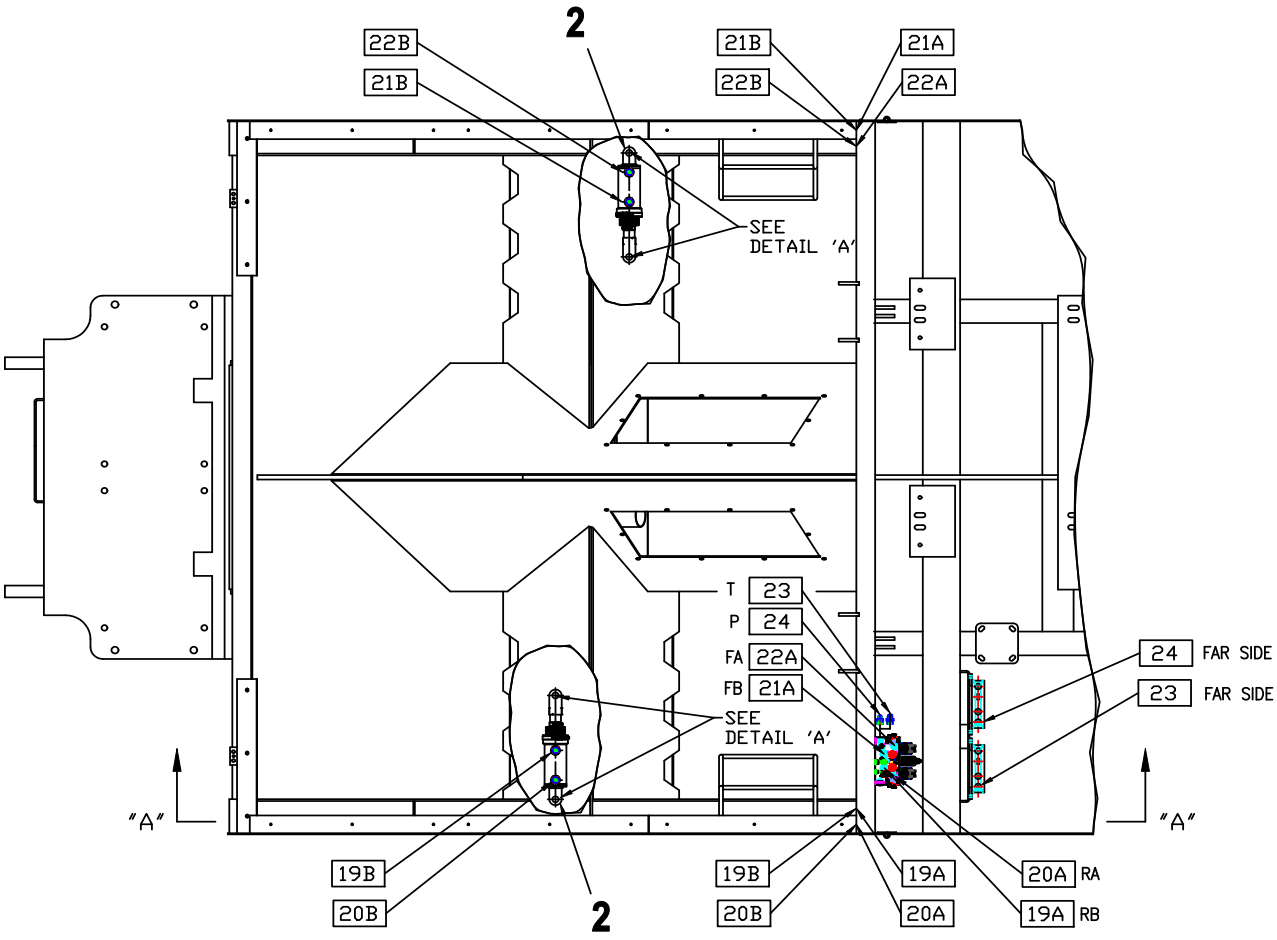
# CYLINDER, C-3 CLEAN-OUT
# ( 144899-01 )

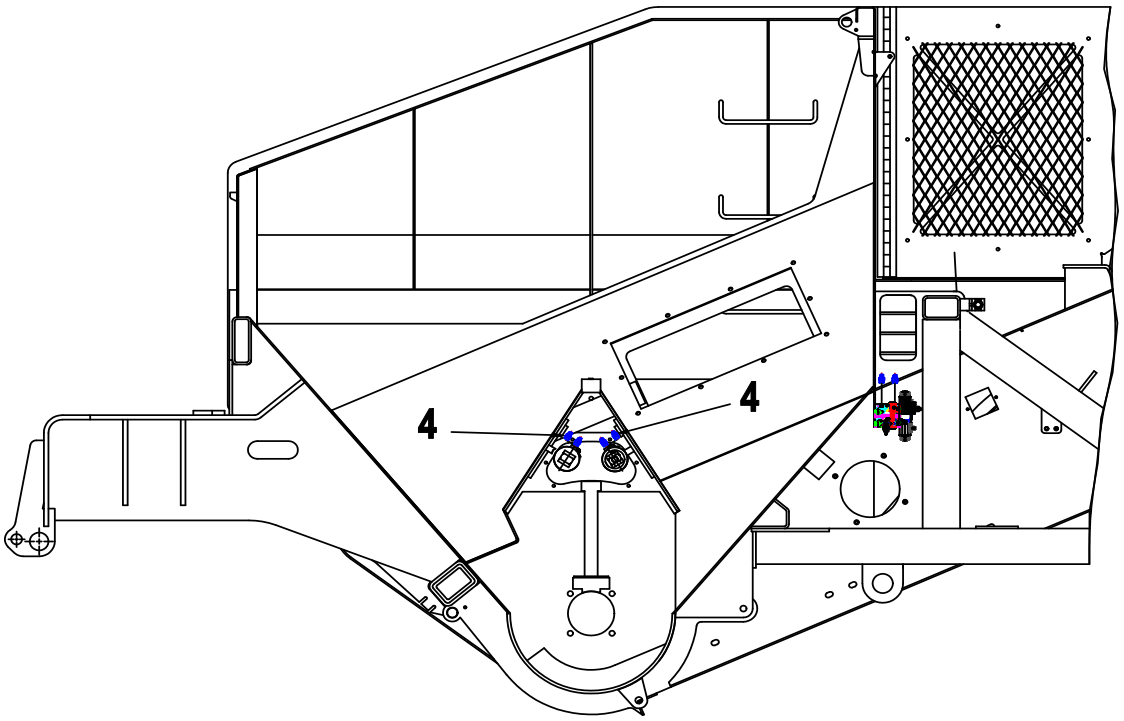



| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 144899-01-C2 | WIPER | 1 |
| 2 | 144899-01-C3 | POLY PAK | 1 |
| 3 | 97482-01-C8 | 3/4" LOCK NUT | 1 |
| 4 | 144899-01-C4 | U-CUP | 2 |
| 5 | 144899-01-C5 | BACK UP | 1 |
| 6 | 144899-01-C6 | O-RING | 1 |
| 7 | 144899-01-C7 | O-RING |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

# FLOWGATE HYDRAULICS
# ( 214927-01 )

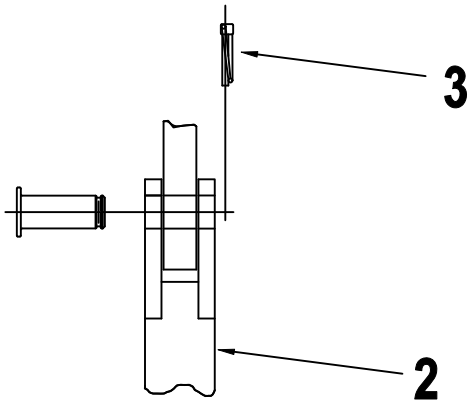
NEXT PAGE



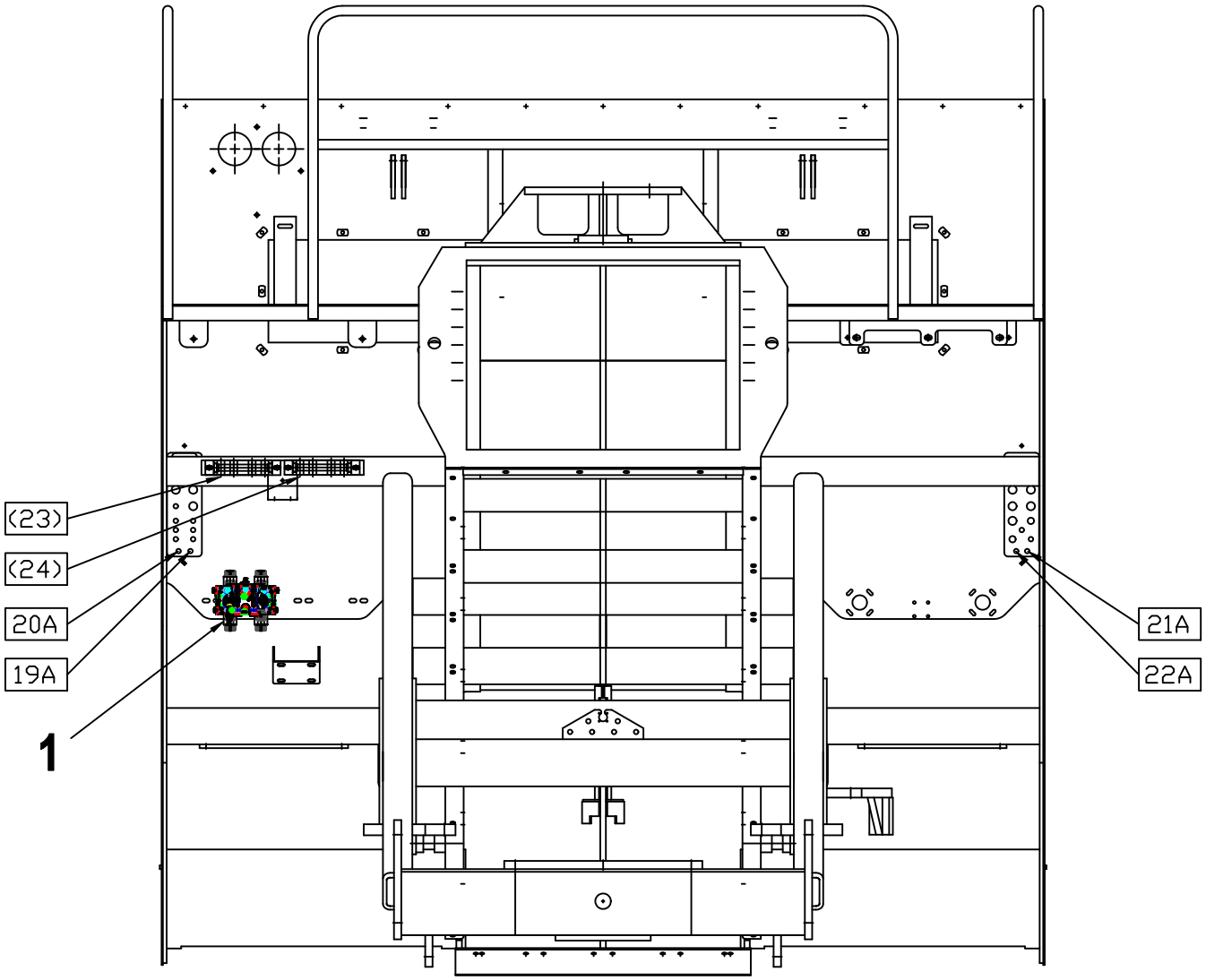




'SECTION A'

# FLOWGATE HYDRAULICS
# ( 214927-01 )



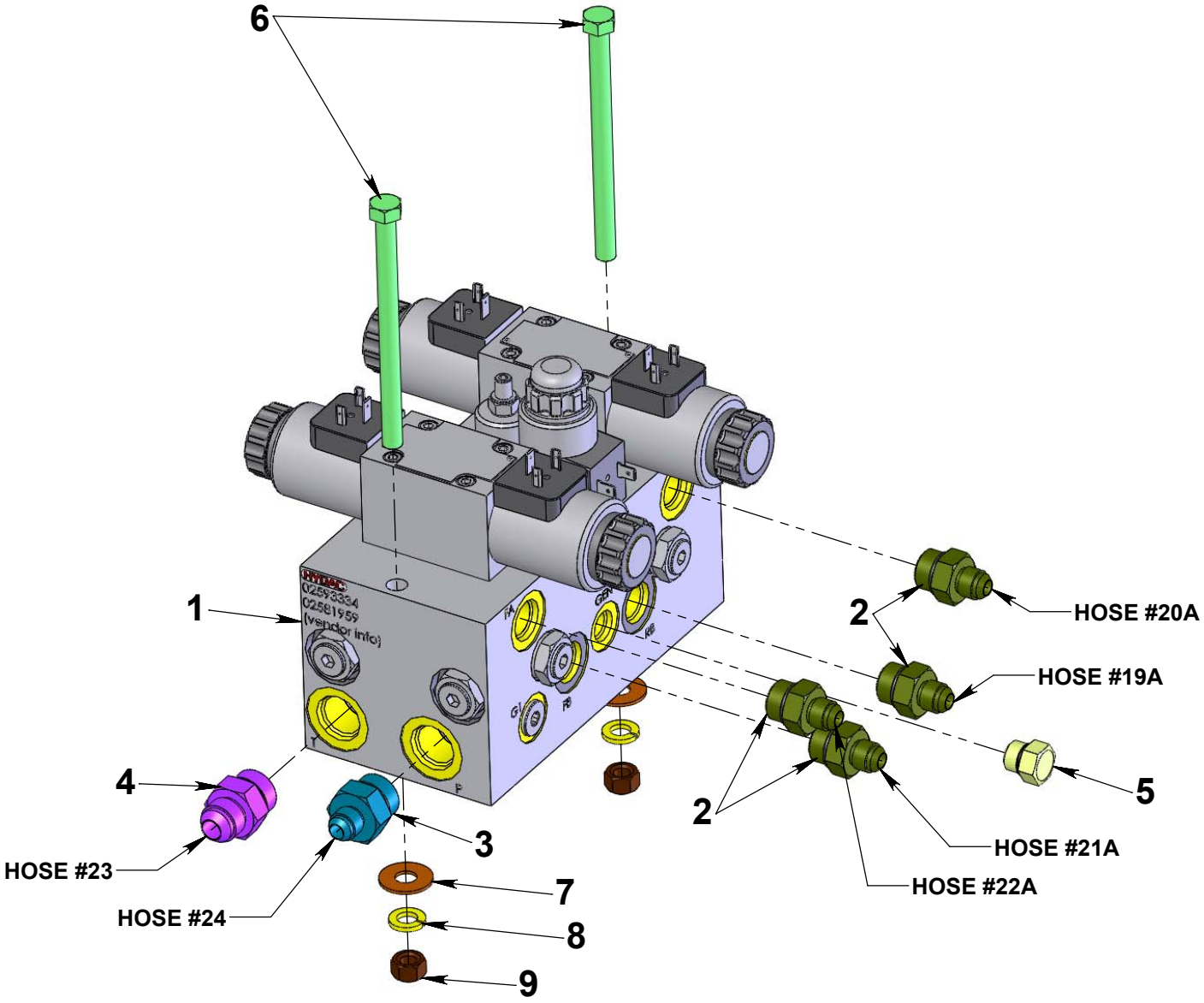

DETAIL 'A'



# FLOWGATE HYDRAULICS
# ( 214927-01 )

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

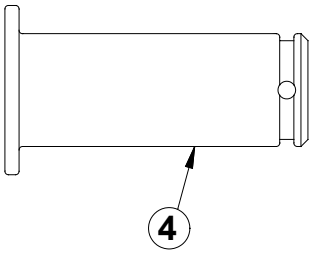
# ASSEMBLY-FLOWGATE CONTROL MANIFOLD (214889-02)

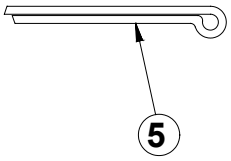


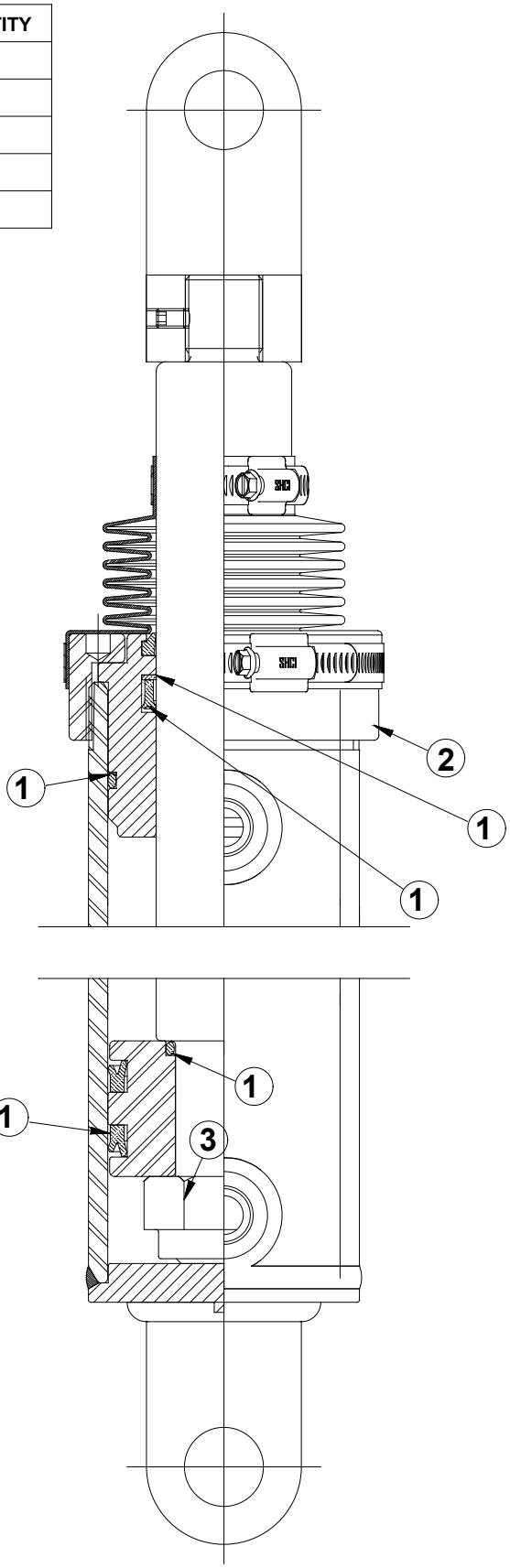

| ITEM # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | 211539-01 | MANIFOLD * FLOW GATES/GENERATOR | 1 |
| 2 | 83469-04 | FIT ~ CONNECTOR 6 JIC - 8 SAE MALE | 4 |
| 3 | 133995-04 | FIT * 6 JIC X 10 SAE STR. | 1 |
| 4 | 83704-04 | FIT ~ CONNECTOR 8 JIC - 10 SAE MALE | 1 |
| 5 | 84635-04 | FIT * PLUG 6 SAE | 1 |
| 6 | 20N62 | BOLT * HEX 3/8"-16 X 5" | 2 |
| 7 | 83757 | WASHER ~ FLAT 3/8 STEEL | 2 |
| 8 | 83056 | WASHER ~ LOCK 3/8 SPRING STEEL | 2 |
| 9 | 83055 | NUT * 3/8-16 HEX GRADE 8 | 2 |

# CYLINDER, FLOWGATE
# ( 144894-01 )

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

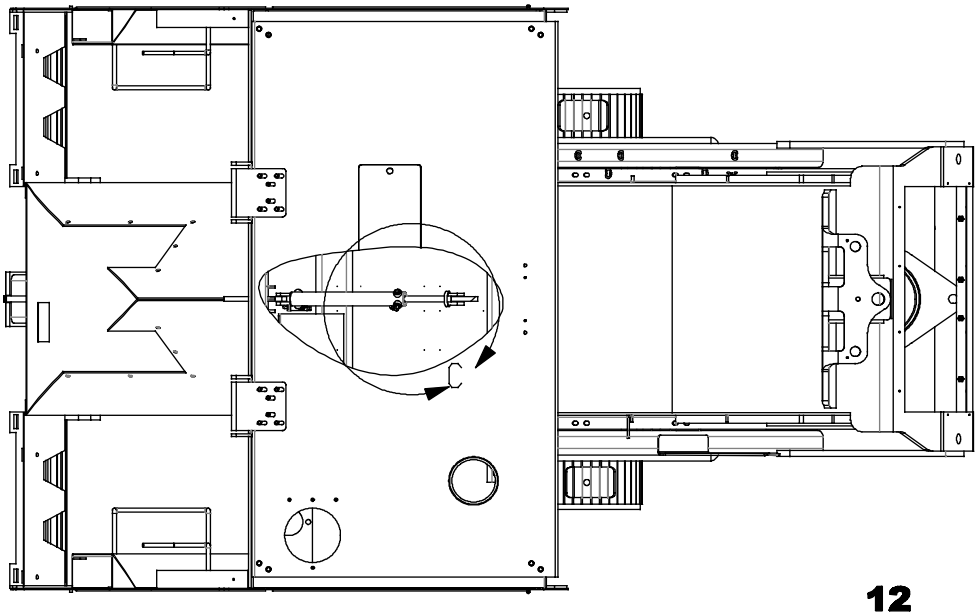


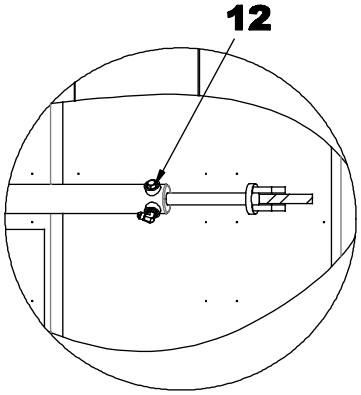



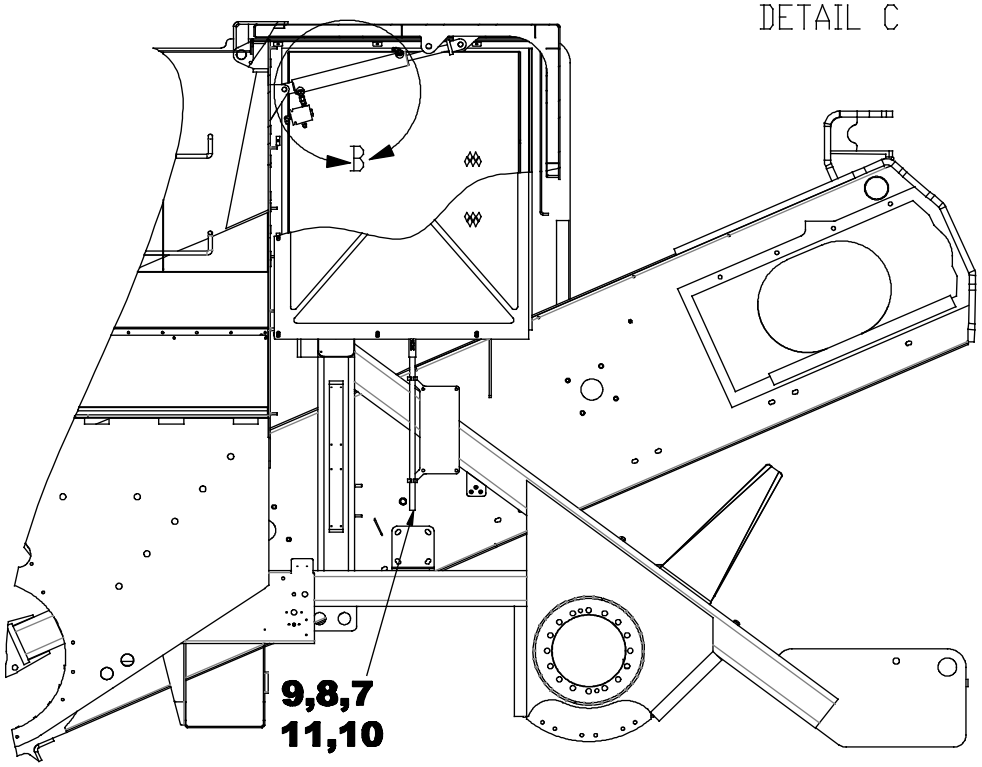
# HOOD RAISE HYDRAULICS
# ( 204266-01 )

NEXT PAGE



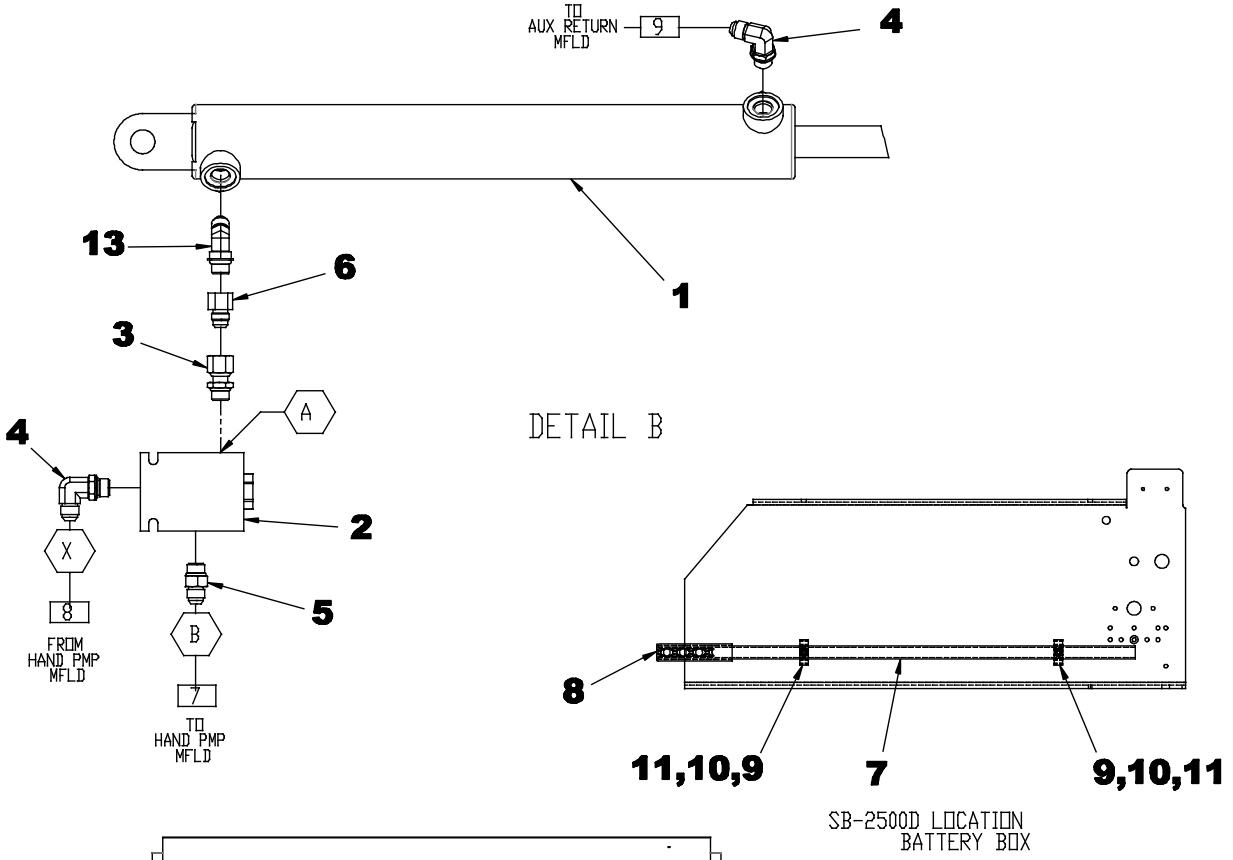



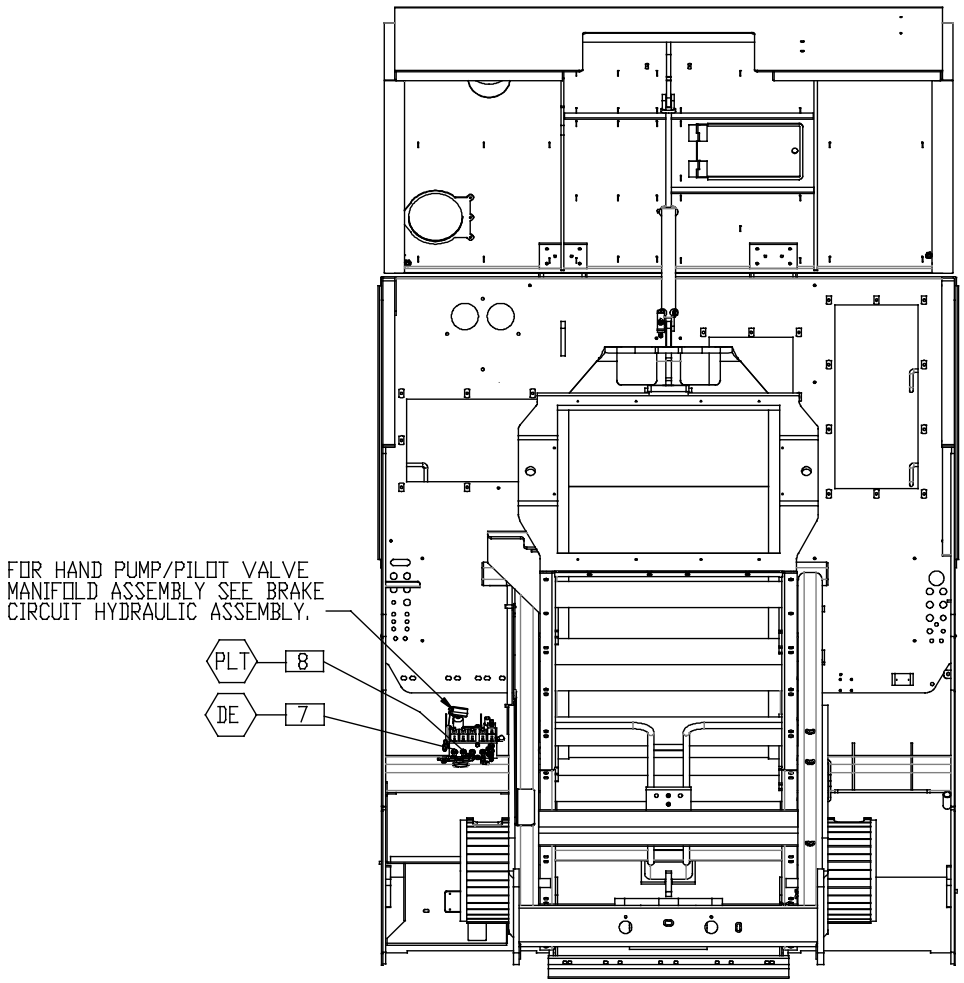

DETAIL C




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

# HOOD RAISE HYDRAULICS
# ( 204266-01 )

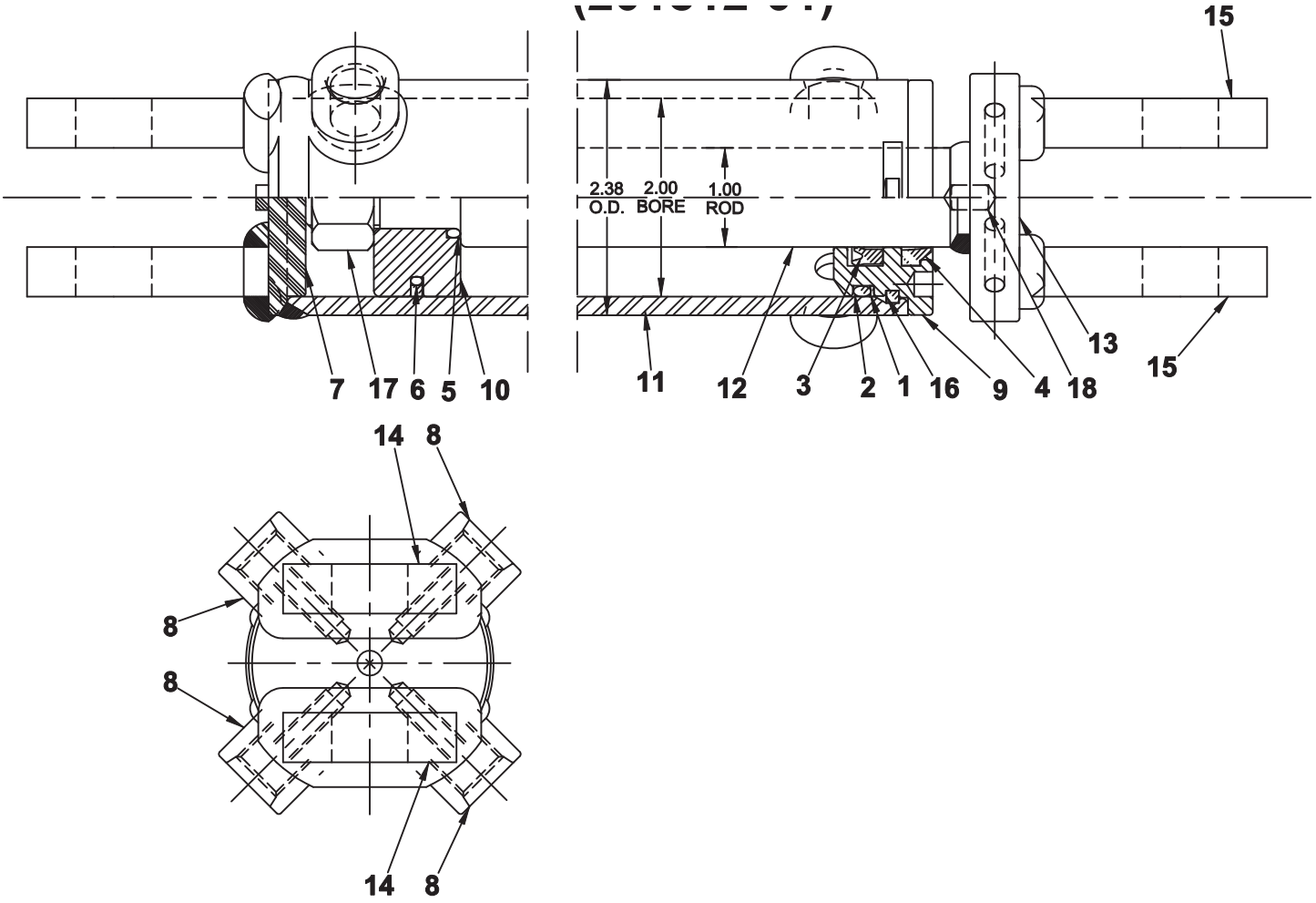


# HOOD RAISE HYDRAULICS ASSY.
# (204266-01)

| 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 | | | |

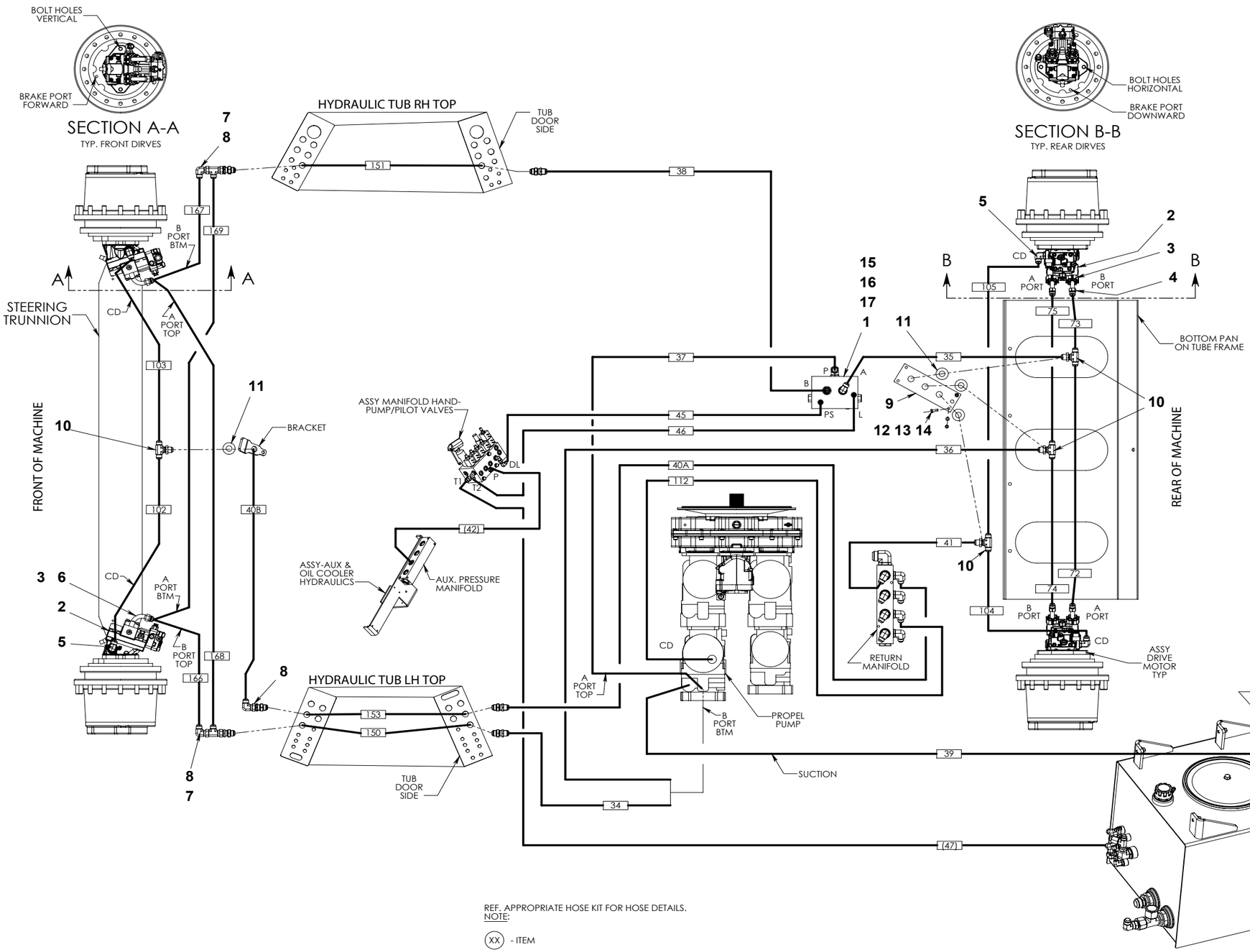
# CYLINDER, HOOD RAISE
# ( 201812-01 )

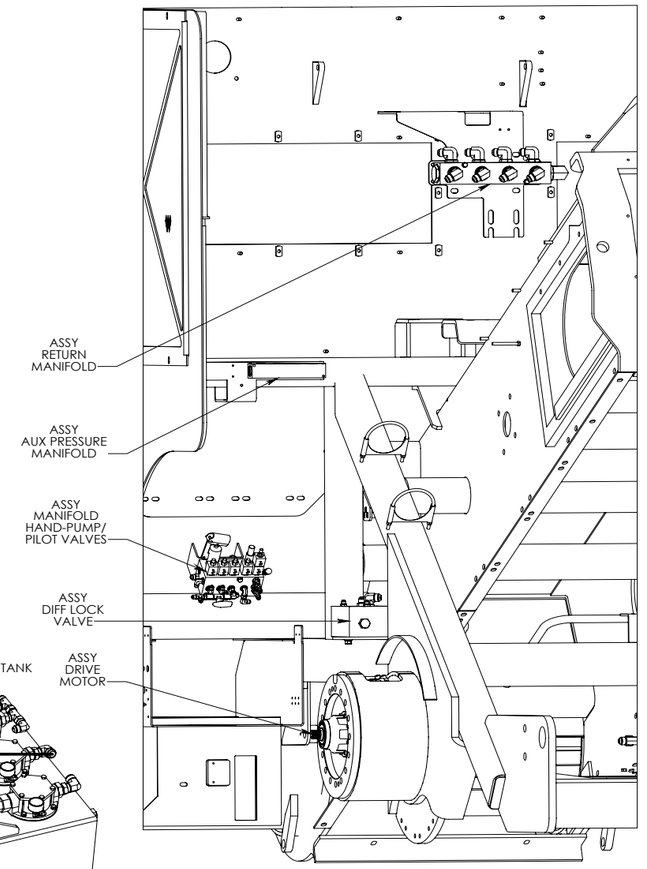



| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 201812-01-C14 | BACK-UP | 1 |
| 2 | 201812-01-C15 | O-RING | 1 |
| 3 | 201812-01-C16 | U-CUP | 1 |
| 4 | 201812-01-C17 | WIPER | 1 |
| 5 | 201812-01-C18 | O-RING | 1 |
| 6 | 201812-01-C19 | PISTON SEAL | 1 |
| 7 | 201812-01-C2 | BASE 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 |



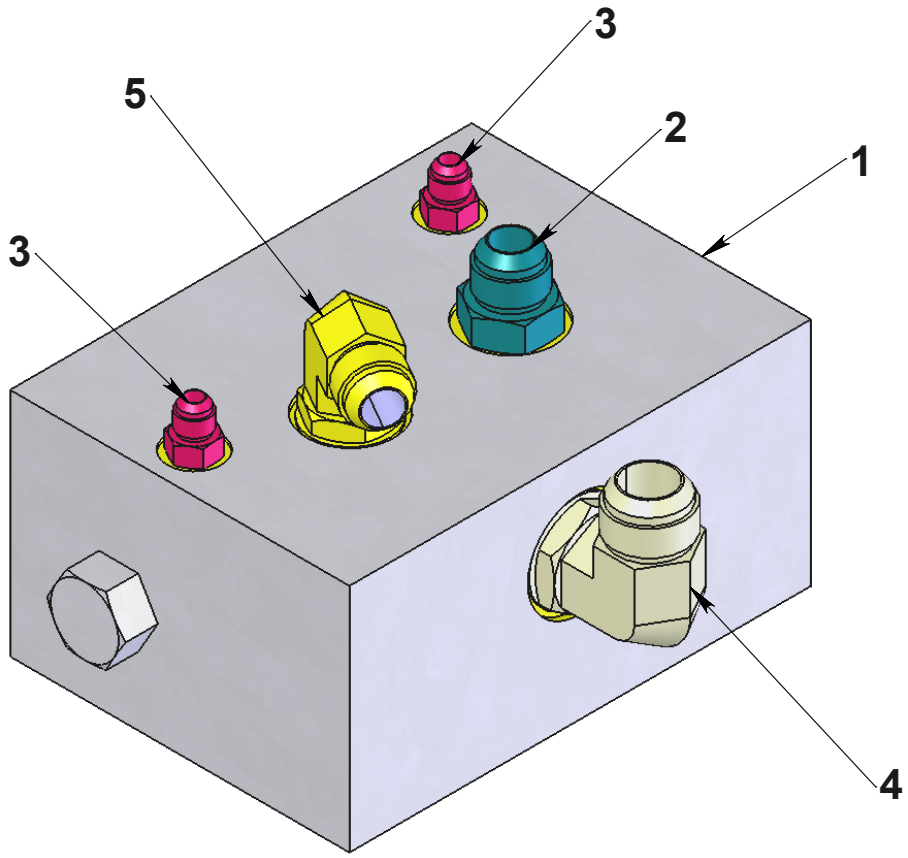




COMPONENT LOCATION
PARTIAL VIEW
(LH SIDE REAR QUARTER SHOWN)



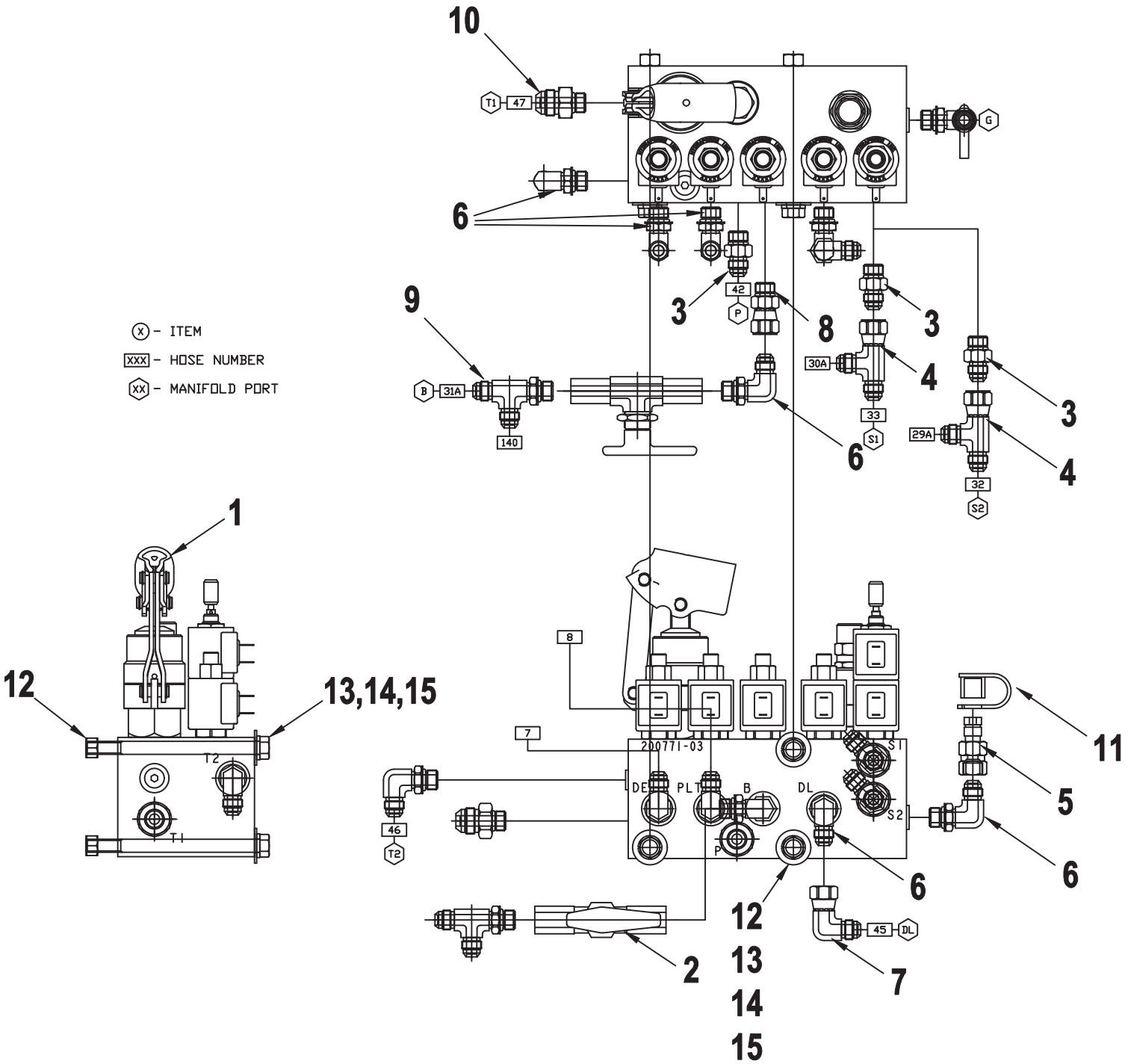
ROADTEC
an Astec Industries Company

# 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 |

# HAND PUMP / PILOT VALVES MANIFOLD ASSY.
# ( 202291-03 )



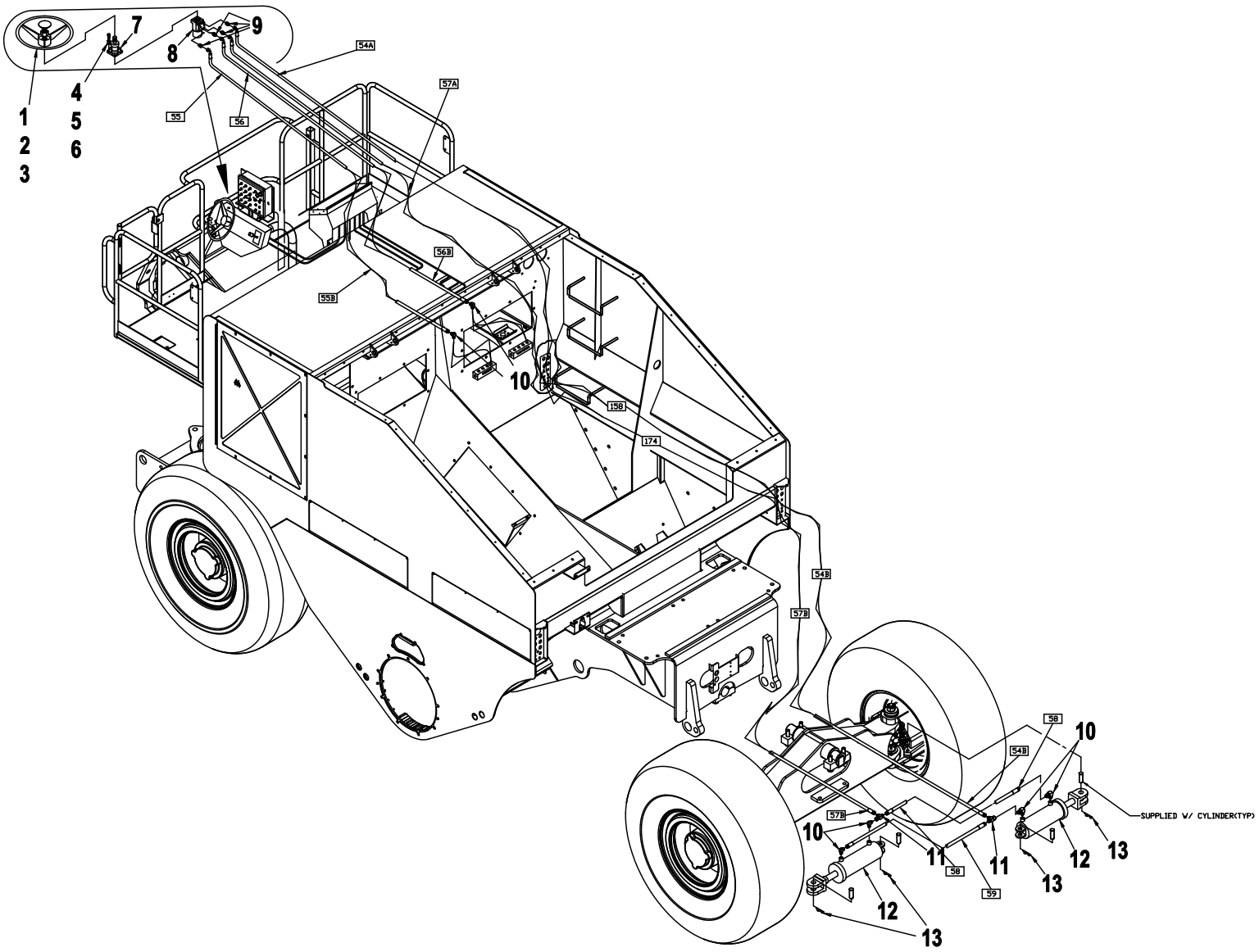



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an Astec Industries Company

# HAND PUMP / PILOT VALVES MANIFOLD ASSY. ( 202291-03 )

| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 200771-03 | VALVE - HAND PUMP / PILOT MANIFOLD | 1 |
| 2 | 131913-04 | 2-WAY BALL VALVE 6 SAE | 1 |
| 3 | 83735-04 | ADAPTER - 6 JIC - 6 SAE MALE | 3 |
| 4 | 84636-04 | SWIVEL RUN TEE - 6 JIC | 2 |
| 5 | 131680-04 | FIT - 6 JIC TEST PORT | 1 |
| 6 | 83734-04 | FIT - 6 SAE - 6 JIC 90 DEG. | 6 |
| 7 | 83953-04 | FIT - 6 JIC FEM. SWIVEL 90 DEG. | 1 |
| 8 | 135923-04 | FIT - 6 SAE M 6 JIC F SW. ST | 1 |
| 9 | 91665-04 | FIT - 6 SAE - 6 JIC RUN TEE | 1 |
| 10 | 83462-04 | FIT - 6 SAE - 8 JIC ST | 1 |
| 11 | 85949-04 | TEST PORT CAP | 1 |
| 12 | 83055 | HEX NUT - 3/8-16 GR8 | 3 |
| 13 | 20N62 | HEX BOLT - 3/8-16 X 5" | 3 |
| 14 | 83757 | FLAT WASHER - 3/8" STEEL | 3 |
| 15 | 83056 | LOCK WASHER - 3/8" SPRING STEEL | 3 |

# STEERING HYDRAULICS
# ( 226479-01 )

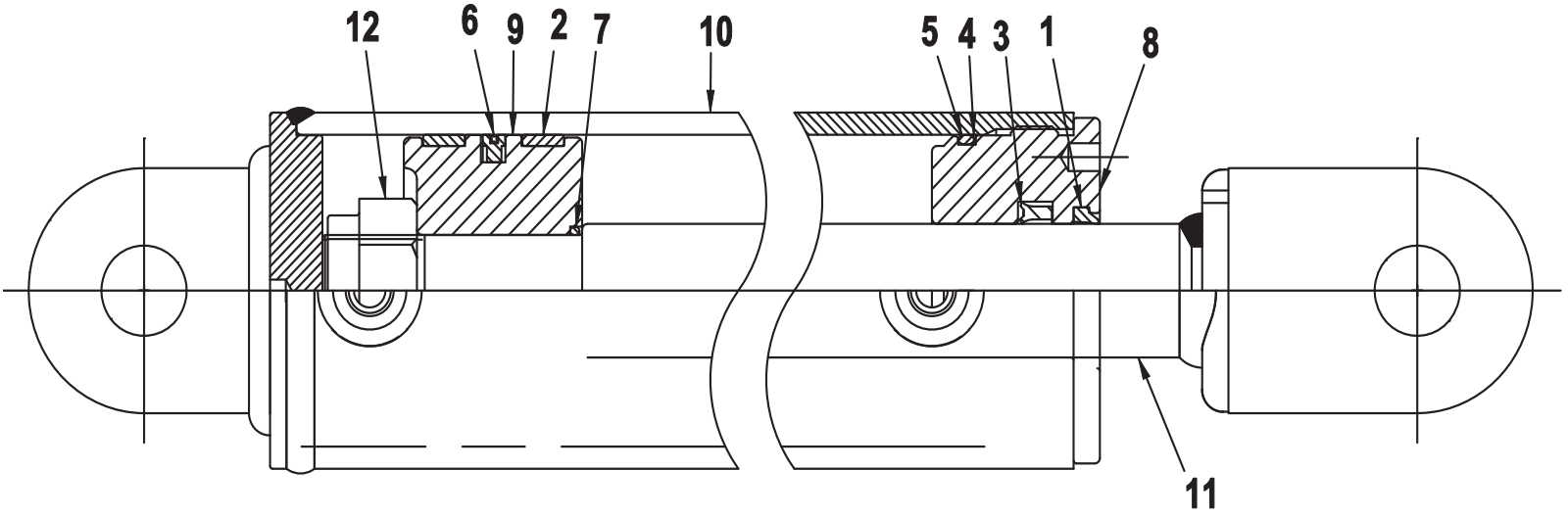



| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 143112-03 | STEERING WHEEL CAP | REF |
| 2 | 89045 | STEERING WHEEL NUT | REF |
| 3 | 143111-01 | STEERING WHEEL | REF |
| 4 | 83924 | HEX BOLT - 3/8-16 X 1 1/2" GR8 | 4 |
| 5 | 83056 | LOCK WASHER - 3/8" | 4 |
| 6 | 83757 | FLAT WASHER - 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 | | | |



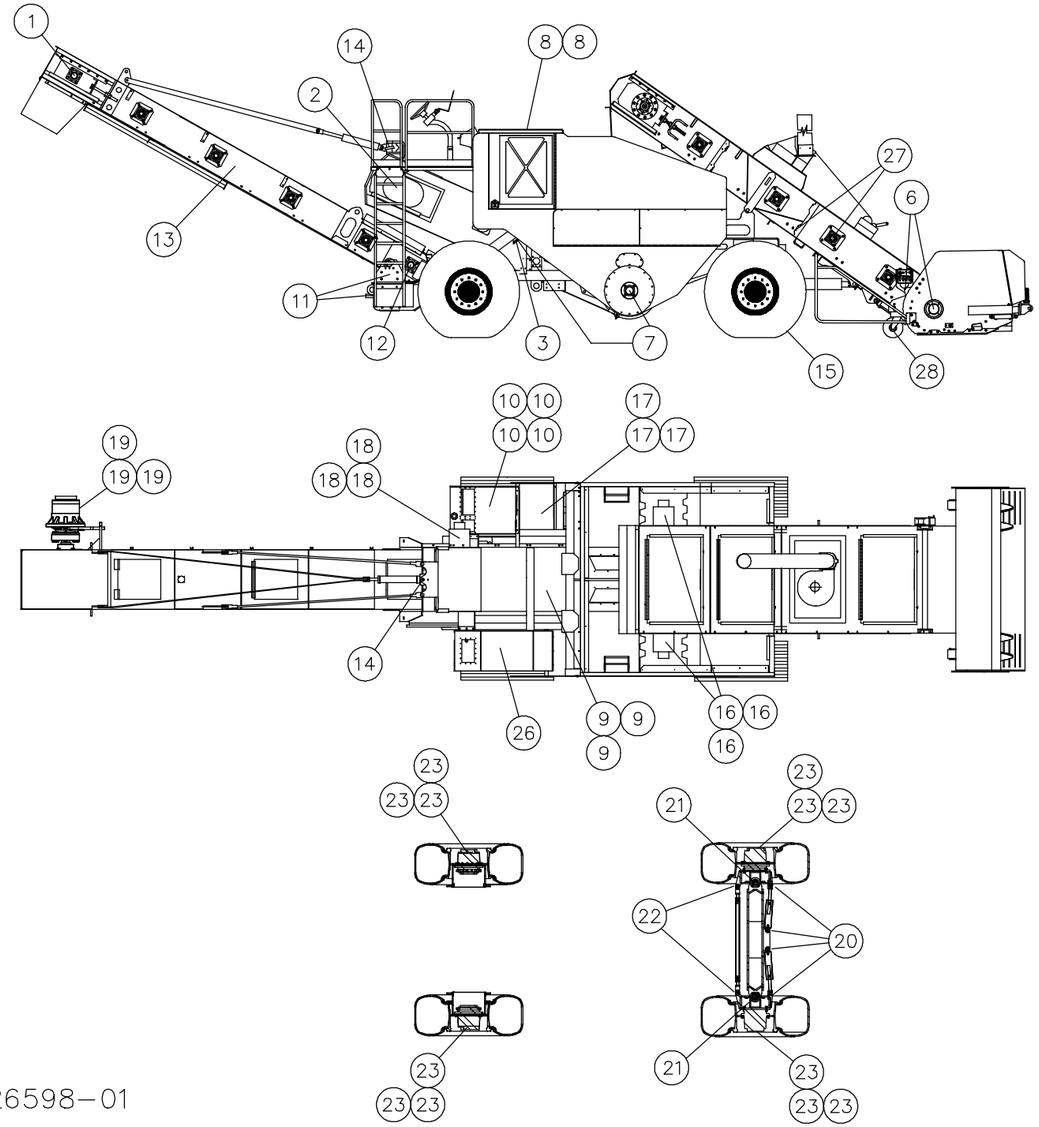
ROADTEC
an Astec Industries Company

# CYLINDER, STEERING
# ( 219625-03 )




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

# SB-2500D LUBRICATION CHART (ENGLISH)




226598–01

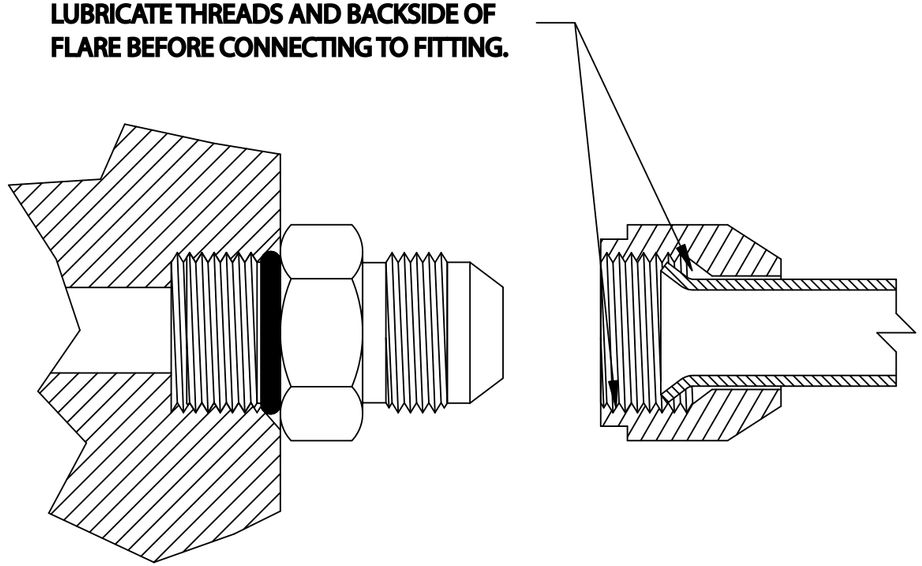
| INTERVAL HOURS | REF NO | IDENTIFICATION | NO. OF POINTS | TYPE OF LUBRICATION | REMARKS |
|---|---|---|---|---|---|
| RED DAILY | 1 | C-3 HEADSHAFT | 2 | HTG | 8 SHOTS (WHILE HOT) |
| | 2 | C-2 HEADSHAFT | 1 | HTG | 8 SHOTS (WHILE HOT) |
| | 3 | C-2 IDLERS | 4 | HTG | 5 SHOTS (WHILE HOT) |
| | 6 |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

| INTERVAL HOURS | REF NO | IDENTIFICATION | NO. OF POINTS | TYPE OF LUBRICATION | REMARKS |
|---|---|---|---|---|---|
| GREEN 250 HOURS | 9 | ENGINE AIR FILTER | 2 | N/A | CHECK AND REPLACE (IF NECESSARY) |
| | 9 | ENGINE OIL AND FILTER | 1 EA | EO | CHANGE |
| | 9 | FUEL FILTER | 2 | N/A | CHANGE |
| | 10 | HYDRAULIC TANK | 1 | HO | DRAIN ACCUMULATED WATER & REFILL |
| | 10 | HYDRAULIC FILTERS | 6 | N/A | REPLACE 2 ELEMENTS PER CANNISTER & H.P. FILTER |
| | 10 | HYDRAULIC TANK BREATHER FILTER | 1 | N/A | CHECK & REPLACE IF NECESSARY |
| | 16 | C-1 GEARBOX | 2 | GO | DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER |
| | 17 | PUMP DRIVE | 1 | GO | DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER |
| | 18 | C-2 GEARBOX | 1 | GO | DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER |
| | 19 | C-3 GEARBOX | 1 | GO | DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER |
| | 23 | GEAR DRIVE W/PARK BRAKE | 4 | GO | DRAIN-FLUSH-REFILL FIRST 250 HRS THEN 1000 HRS THEREAFTER |
| | 26 | FUEL TANK | 1 | N/A | DRAIN ACCUMULATED WATER & REFILL |
| BLUE 1000 HOURS | 8 | RADIATOR | 1 | 50/50 ANTIFREEZE | DRAIN-CLEAN-REFILL |
| | 10 | HYDRAULIC TANK | 1 | HO | DRAIN & FLUSH OIL-CHANGE ALL FILTERS-CLEAN ALL BREATHERS |
| | 16 | C-1 GEARBOX | 2 | GO | DRAIN-FLUSH-REFILL |
| | 17 | PUMP DRIVE | 1 | GO | DRAIN-FLUSH-REFILL |
| | 18 | C-2 GEARBOX | 1 | GO | DRAIN-FLUSH-REFILL |
| | 19 | C-3 GEARBOX | 1 | GO | DRAIN-FLUSH-REFILL |
| | 23 | GEAR DRIVE W/PARK BRAKE | 4 | GO | DRAIN-FLUSH-REFILL |

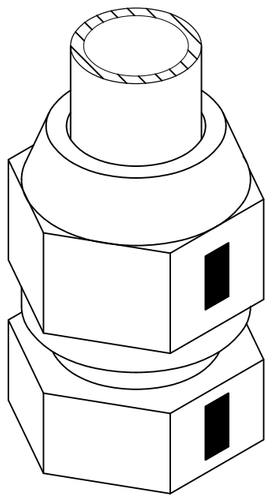
EO – ENGINE OIL–SAE 15W40–VALVOLINE PREMIUM BLUE, ALL–FLEET PLUS OR EQUIVALENT
HTG – HIGH TEMPERATURE GREASE–NGLI GRADE2–VALVOLINE CERULEAN, PALLADIUM, OR EQUIVALENT
HO – HYDRAULIC OIL–ISO VIS. GRADE 46–VALVOLINE ANTI–WEAR HYDRAULIC OIL OR EQUIVALENT
GO – GEAR OIL–EP–90 VALVOLINE HIGH PERFORMANCE GEAR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

Valvoline

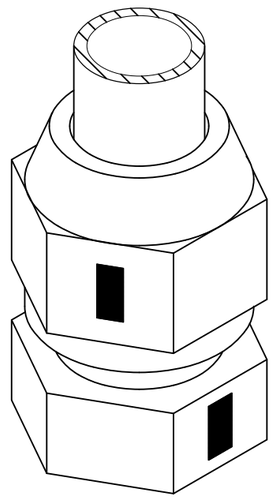
**LUBRICATE THREADS AND BACKSIDE OF FLARE BEFORE CONNECTING TO FITTING.**



**EXAMPLE - 20 JIC HOSE END**



**SNUG JOINT WITH FLATS MARKED**



**TIGHT JOINT WITH 1 FLAT FROM WRENCH RESISTANCE**

# ASSY- JIC FITTING INSTRUCTIONS ( 134914-02 )

JIC FITTING INSTALLATION

USING FLATS FROM WRENCH RESISTANCE (FFWR) METHOD

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

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

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

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

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

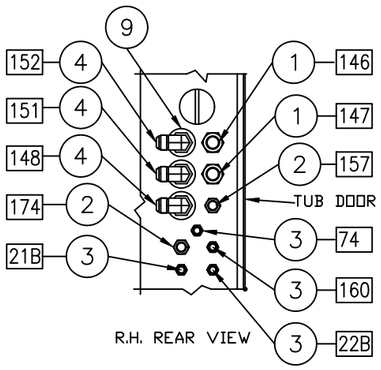
| SAE DASH SIZE | FLATS FROM WRENCH RESISTANCE |
|---|---|
| -4 | 2 |
| -5 | 2 |
| -6 | 1-1/2 |
| -8 | 1-1/2 |
| -10 | 1-1/2 |
| -12 | 1-1/4 |
| -16 | 1 |
| -20 | 1 |
| -24 | 1 |
| -32 | 1 |



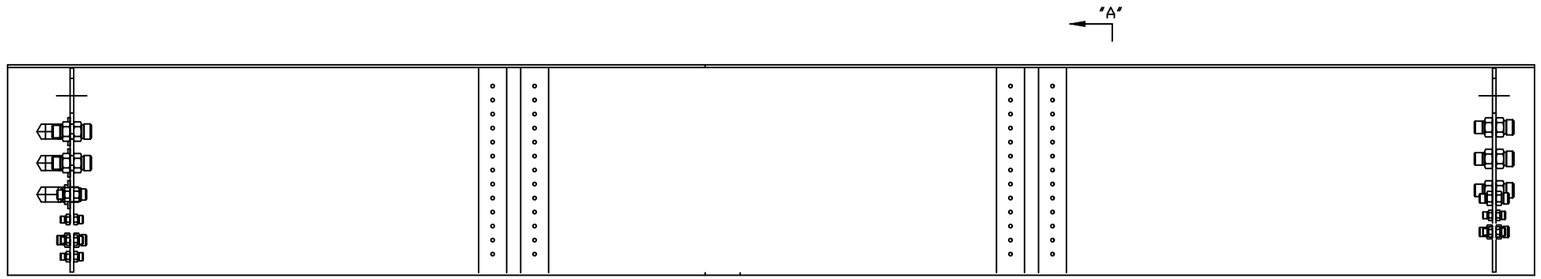
ROADTEC an Astec Industries Company

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

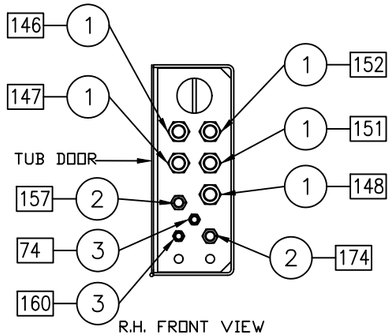
[X] SEE APPROPRIATE HOSE KIT FOR HOSE DESCRIPTIONS



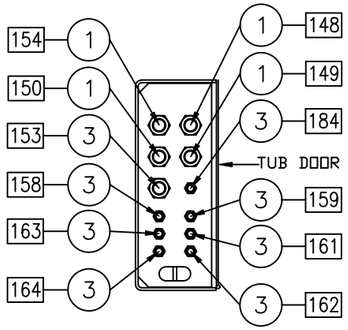

R.H. REAR VIEW



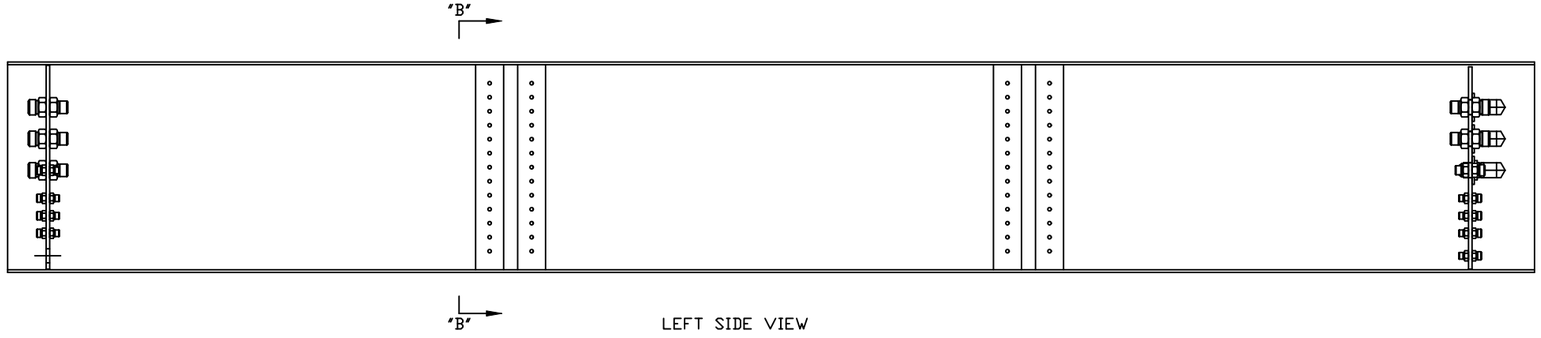

RIGHT SIDE VIEW



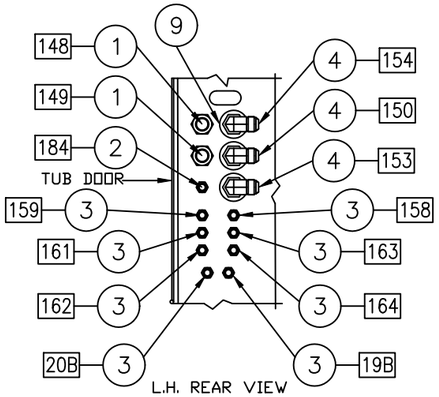

R.H. FRONT VIEW



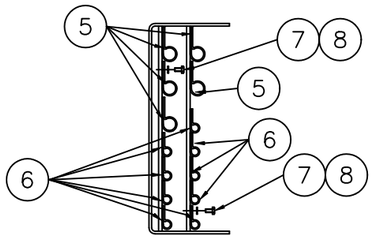

L.H. FRONT VIEW



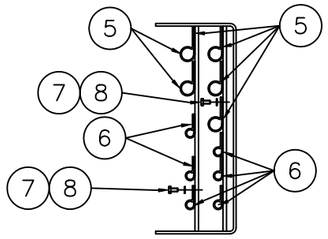

LEFT SIDE VIEW




L.H. REAR VIEW




VIEW "B-B"




VIEW "A-A"

REPLACES DWG. #217053-01

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

| REV. | SN# | DATE | ISSUES | BY |
|---|---|---|---|---|
| | | | | |

ROADTEC

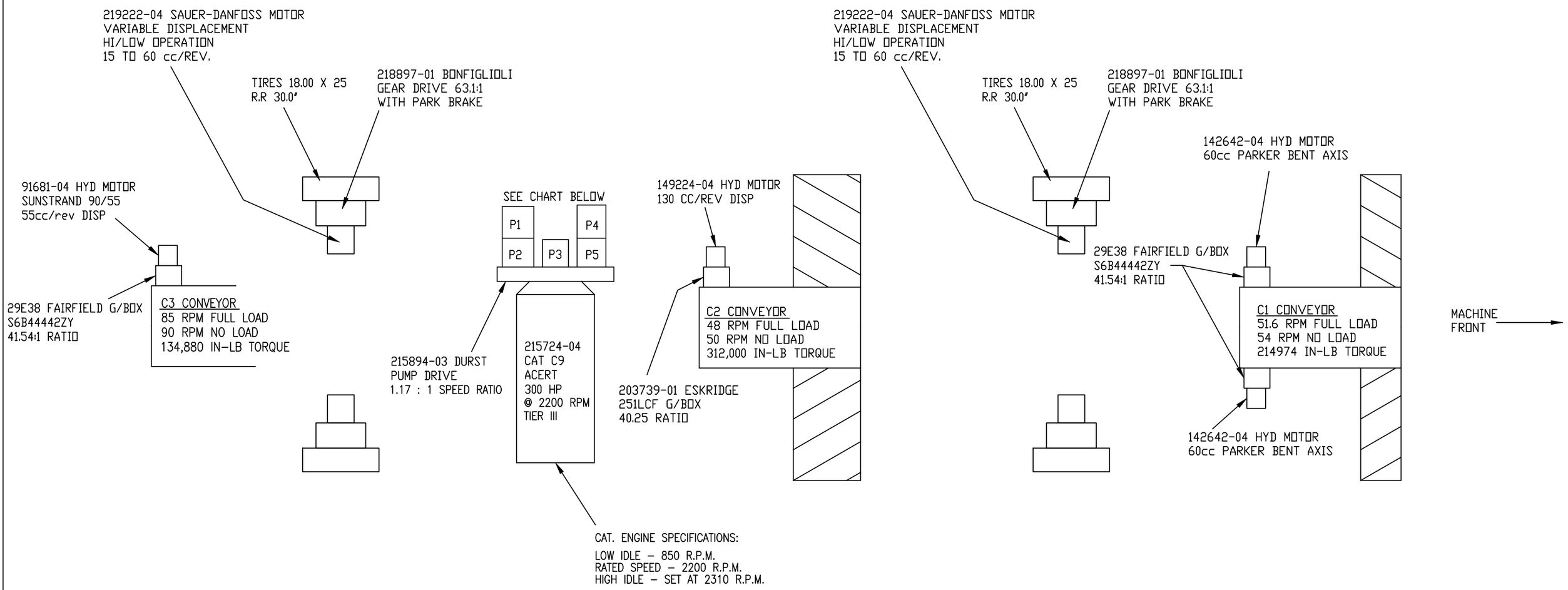
PART NAME: HYDRAULIC TUB SUB-ASSEMBLY

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

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

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

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




## PUMP CHART

| PUMP | PART No | DESCRIPTION | TYPE | SYSTEM RELIEF | CHARGE RELIEF | CHARGE DISP. |
|---|---|---|---|---|---|---|
| P1 | 29J94 | C3 CONVEYOR | SAUER 90/75 | 5700 PSI | 350 PSI | 17 CC |
| P2 | 99814 | C2 CONVEYOR | SAUER 90/100 | 5700 PSI | 350 PSI | 20 CC |
| P3 | 211743-04 | AUXILLIARY | SAUER-DANFOSS | 2500 PSI | N/A | N/A |
| P4 | 219675-04 | TRANSMISSION | SAUER 90/100 | 6500 PSI | 350 PSI | 31 CC |
| P5 | 99814 | C1 CONVEYOR | SAUER 90/100 | 5700 PSI | 350 PSI | 20 CC |

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

| △ | I | E | T | N | PF | FC | M | MC | A | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

REPLACES DWG. # 221134-01 E.C.# 1630

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

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

ROADTEC

PART NAME: SB-2500D SPEED CHART

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

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

SCALE 1 | DATE 10/07/08

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

REVISION 0

# SB-2500D DIRECT DRIVE

**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) |
| 731 | Parker 731-12 (Drawing must be made for | high pressure (6000 psi) |
| SLEEVE | Partek "PS" series | ISO 6945 protective nylon |
| HT | Parker 943B | high temperature |

All sizes are 5000 psi MWP

Size 12 MWP is 6000, 16 is 5500 & 20 is 4700

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 |
| 11 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 19 | A & B HOSES | | | | | | | | | | |
| 20 | A & B HOSES | | | | | | | | | | |
| 21 | A & B HOSES | | | | | | | | | | |
| 22 | A & B HOSES | | | | | | | | | | |
| 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 ROD E.CYL | 3 | 0.25 | STD | 108 | 6x4 ST | 6x4 90 | 147462-04 | 111 |
| 26 | C3 CONTROLS | 99631S | C3 SWING VALVE*SB - BOTTOM LH BASE 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 |
| 30 | UNASSIGNED | | | | | | | | | | |
| 31 | A & B HOSES | | | | | | | | | | |
| 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 |
| 40 | A & B HOSES | | | | | | | | | | |
| 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 |
| 43 | UNASSIGNED | | | | | | | | | | |
| 44 | UNASSIGNED | | | | | | | | | | |
| 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 |

| HOSE # | CIRCUIT | ROADTEC PN | FUNCTION | Tier# | HOSE SIZE | HOSE TYP | HOSE & SLEEVE CUT LENGTH | HOSE END #1 | HOSE END #2 | SLEEVE PN | O.A.L. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | BRAKES | 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 |
| 54 | A & B HOSES | | | | | | | | | | |
| 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 |
| 57 | A & B HOSES | | | | | | | | | | |
| 58 | STEERING | 99666 | STEER JUMP RH BASE CYL - LH ROD E.CYL | 5 | 0.375 | STD | 26 | 6x6 ST | 6x6 ST | NO SLEEVE | 29 |
| 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 |
| 76 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 96 | A & B HOSES | | | | | | | | | | |
| 97 | A & B HOSES | | | | | | | | | | |
| 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 |

| HOSE # | CIRCUIT | ROADTEC PN | FUNCTION | Tier# | HOSE SIZE | HOSE TYP | HOSE & SLEEVE CUT LENGTH | HOSE END #1 | HOSE END #2 | SLEEVE PN | O.A.L. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 106 | C1 DRIVE | 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 |
| 116 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 119 | UNASSIGNED | | | | | | | | | | |
| 120 | FUME-X | 93621-04S | FXS PUMP*PR - FXS VALVE*P | 1 | 0.5 | STD | 48 | 8x8 ST | 8x8 90 | 147462-04 | 51 |
| 121 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 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 |
| 145 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 161 | UNASSIGNED | | | | | | | | | | |
| 162 | UNASSIGNED | | | | | | | | | | |
| 163 | UNASSIGNED | | | | | | | | | | |
| 164 | BRAKES | 134495 | FR PARK BRAKE BLK HD - LH TUB LS | 4 | 0.25 | STD | 98 | 6x4 ST | 6x4 ST | NO SLEEVE | 101 |

| HOSE # | CIRCUIT | ROADTEC PN | FUNCTION | Tier# | HOSE SIZE | HOSE TYP | HOSE & SLEEVE CUT LENGTH | HOSE END #1 | HOSE END #2 | SLEEVE PN | O.A.L. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | FUME-X | 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 |
| 177 | UNASSIGNED | | | | | | | | | | |
| 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 |
| 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 |
| | | | | | | | | | | | |
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| 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 |
|---|---|---|---|
| | | | |
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| | | | |
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| | | | |

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

MAX DISP

ELECTRIC SHIFT

M9

X3,M5

M2

L1,L2

REAR DRIVES

FRONT DRIVES

OIL COOLER
300 PSI MAX

10 MICRON
SUCTION
FILTER

RETURN
FILTER
3 MICRON
ABSOLUTE

SEE SHEET 4 FOR HOOD CIRCUIT

DE PLT B DL S2 S1

T1 P T2

ø0.040

ø0.046

350 PSI

G

FROM AUX. PRESSURE MANIFOLD

HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

A B

.031" ORIFICE

P (UP TO 55 GPM)

PS

PROPEL CIRCUIT

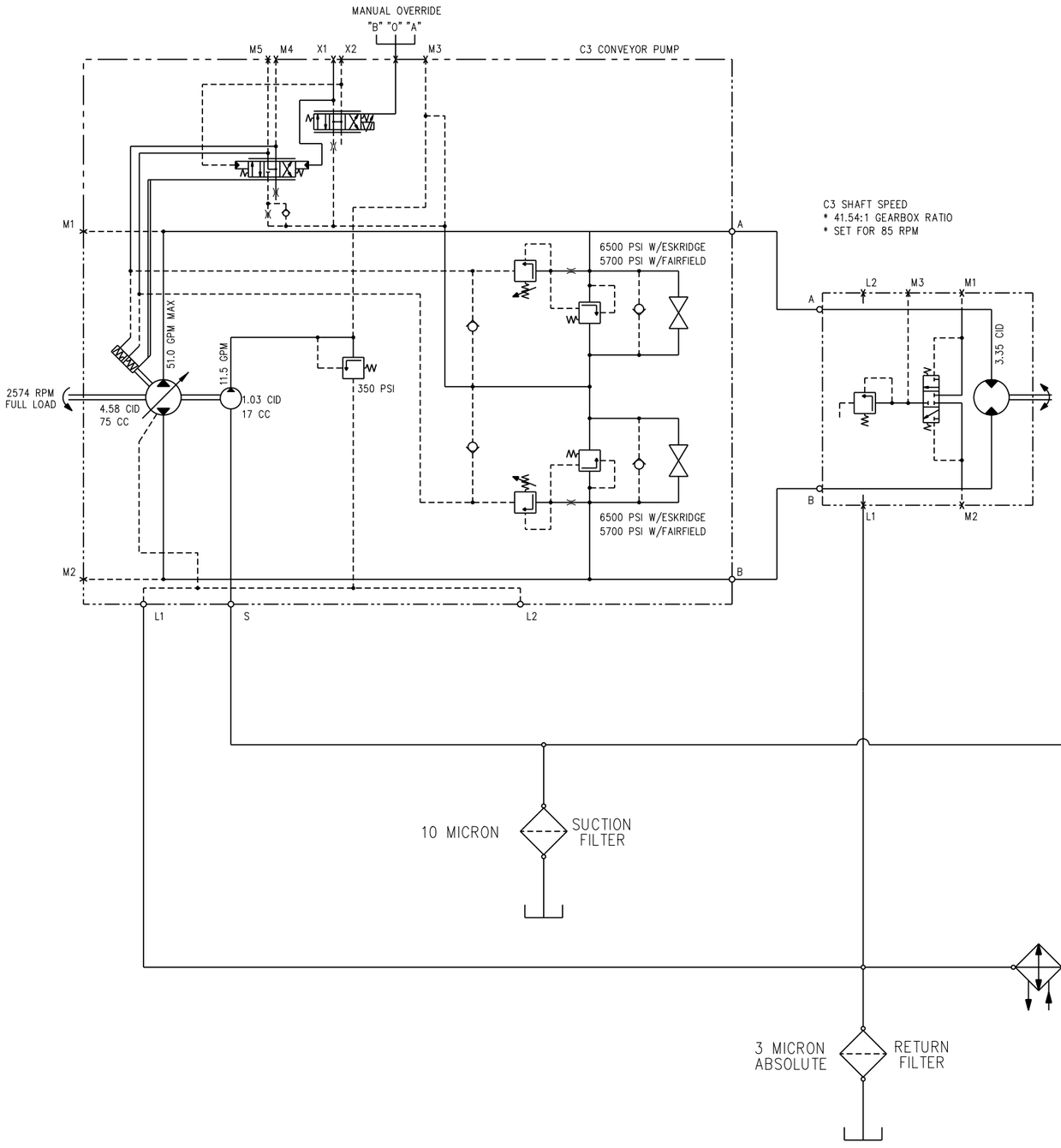
REPLACES DWG #230745-01 EC# 1697

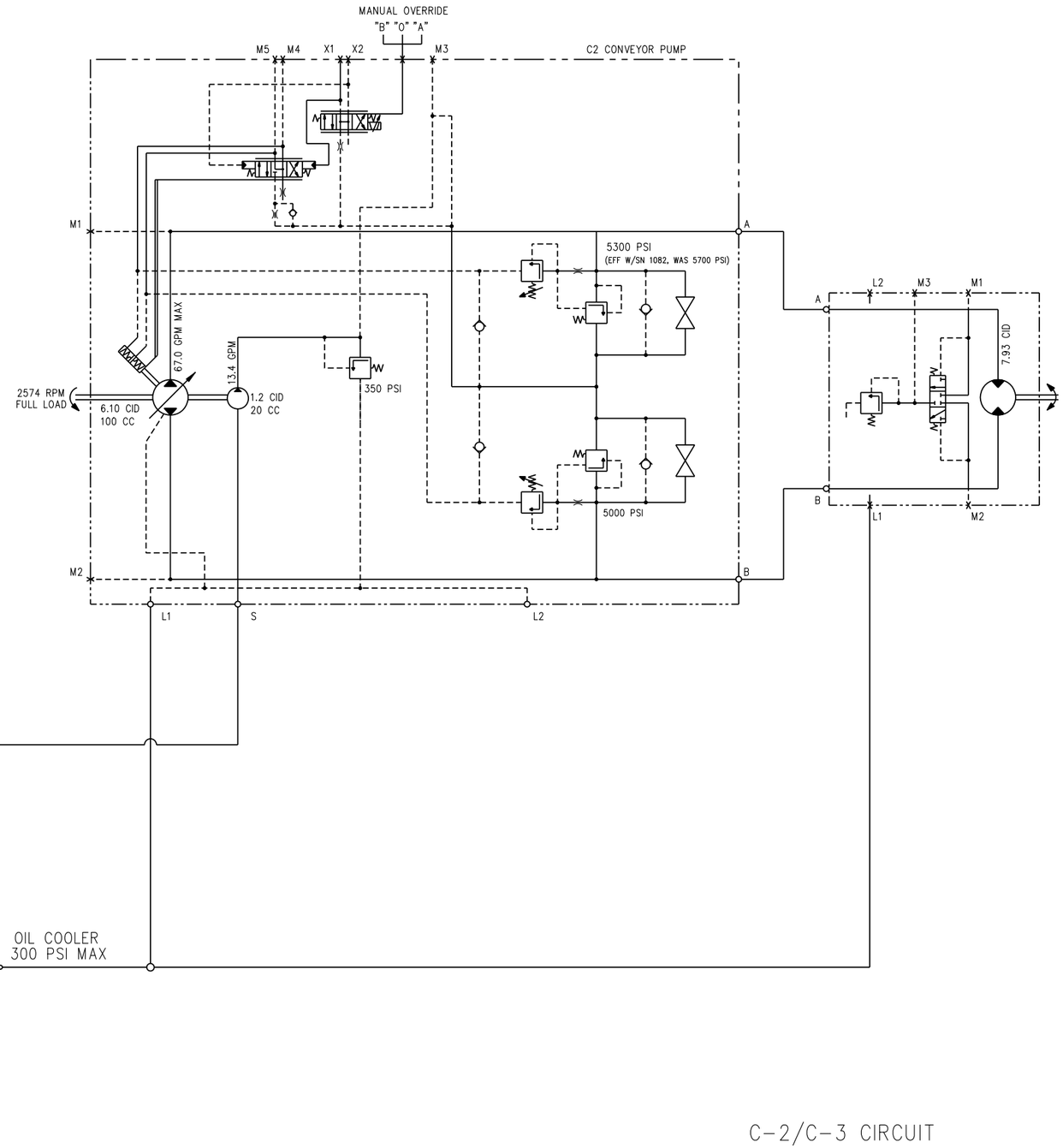
all fractional dim's ? 1/32" – all decimal dim's ? .005 unless noted

| 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: 0 |



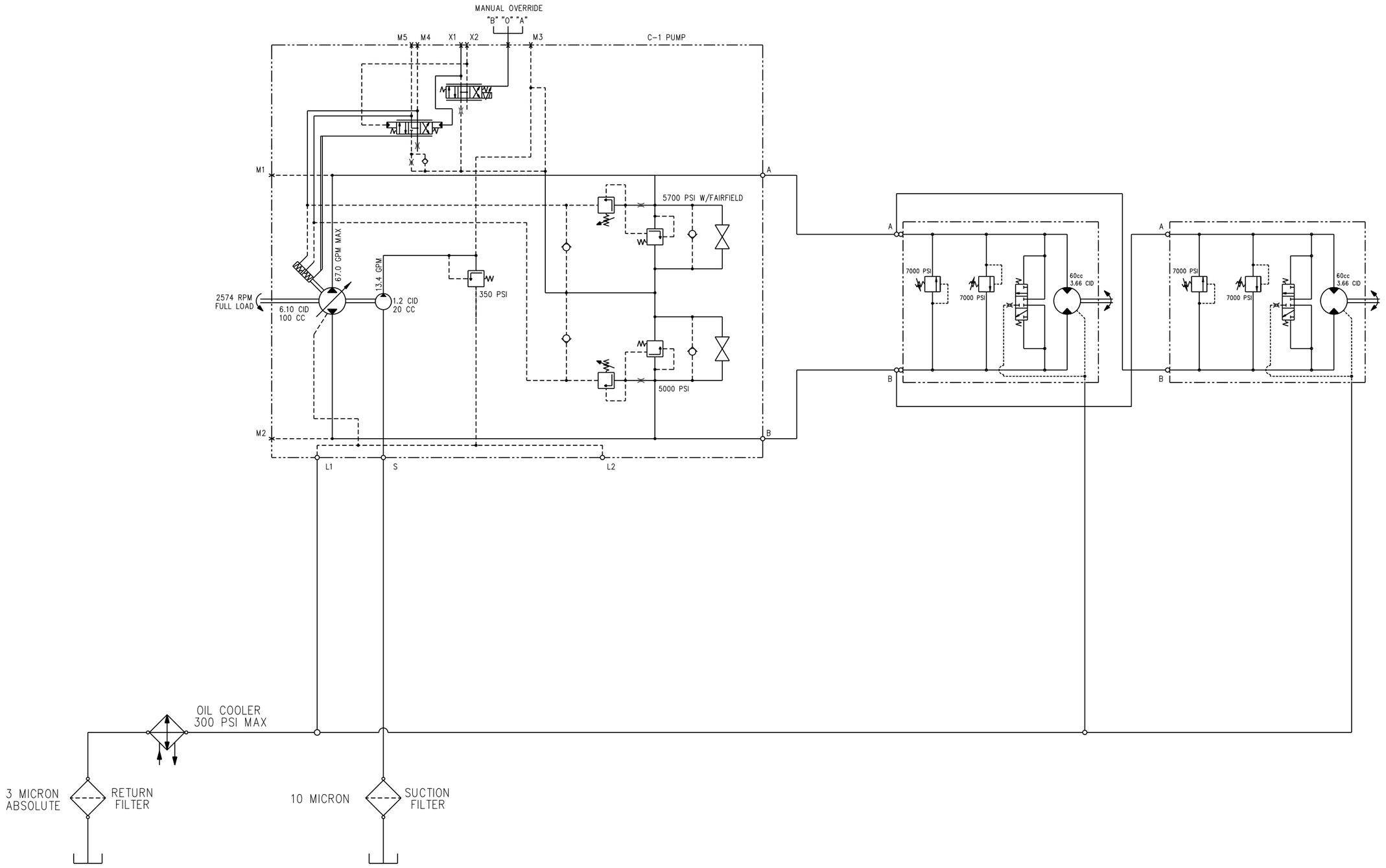

C-2/C-3 CIRCUIT

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

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

ROADTEC

| | | | |
|---|---|---|---|
| PART NAME: SCHEMATIC SB 2500D HYDRAULIC | | | |
| 01 REQ'D PER 2500D | SHEET NO: 2 of 6 | FAB CODE: 615 | EFFECTIVE S/N: 1109 |
| DRAWN BY: JEH | CHECKED BY: | DWG NO: 235483-01 | REV: 0 |
| SCALE: 3/4 | DATE: 10/29/09 | | |



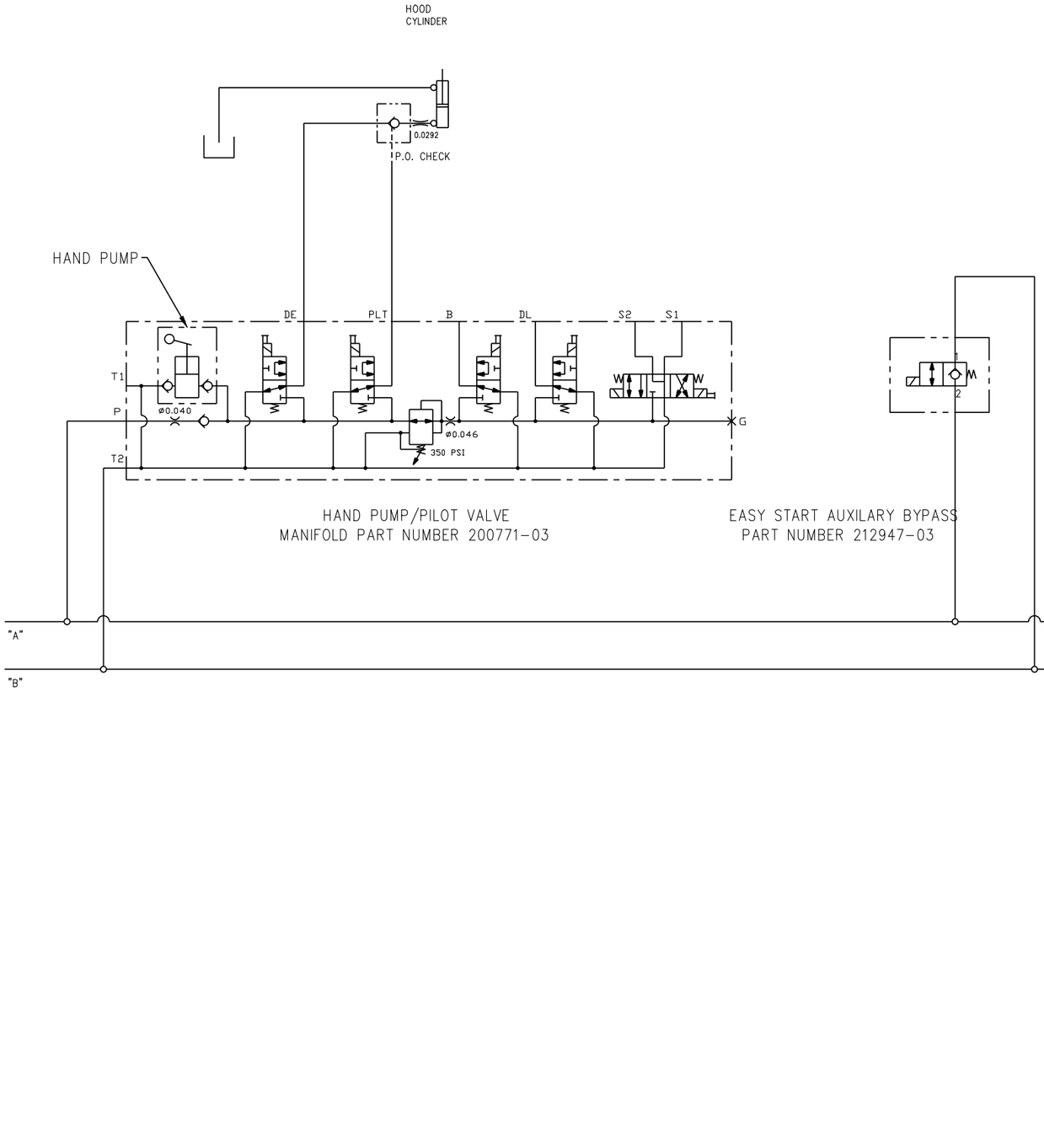

C-1 CIRCUIT

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

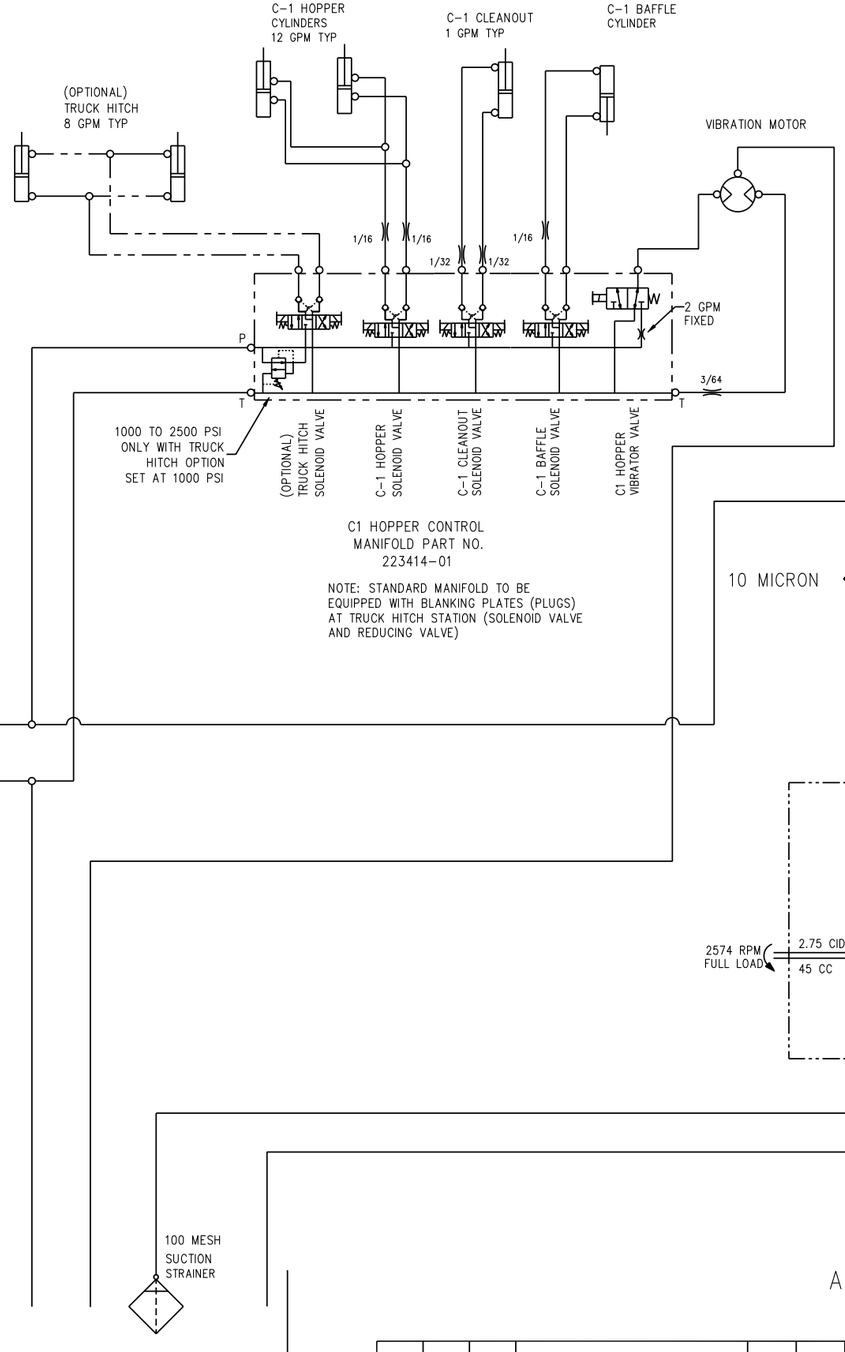
| | | | |
|---|---|---|---|
| PART NAME | SCHEMATIC SB 2500D HYDRAULIC | | |
| 01 REQ'D PER 2500D | SHEET NO 3 of 6 | FAB CODE 615 | EFFECTIVE S/N 1109 |
| DRAWN BY JEH | CHECKED BY | DWG NO 235483-01 | REV. 0 |
| SCALE 3/4 | DATE 10/29/09 | | |




HAND PUMP/PILOT VALVE
MANIFOLD PART NUMBER 200771-03

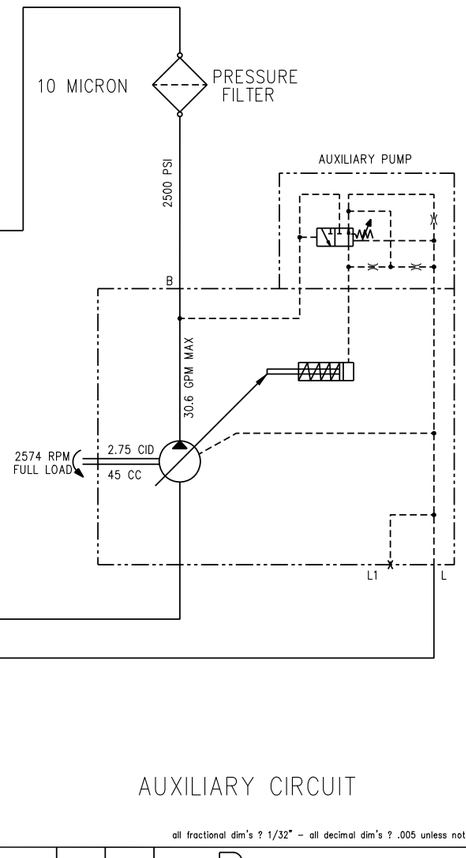



EASY START AUXILARY BYPASS
PART NUMBER 212947-03




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)







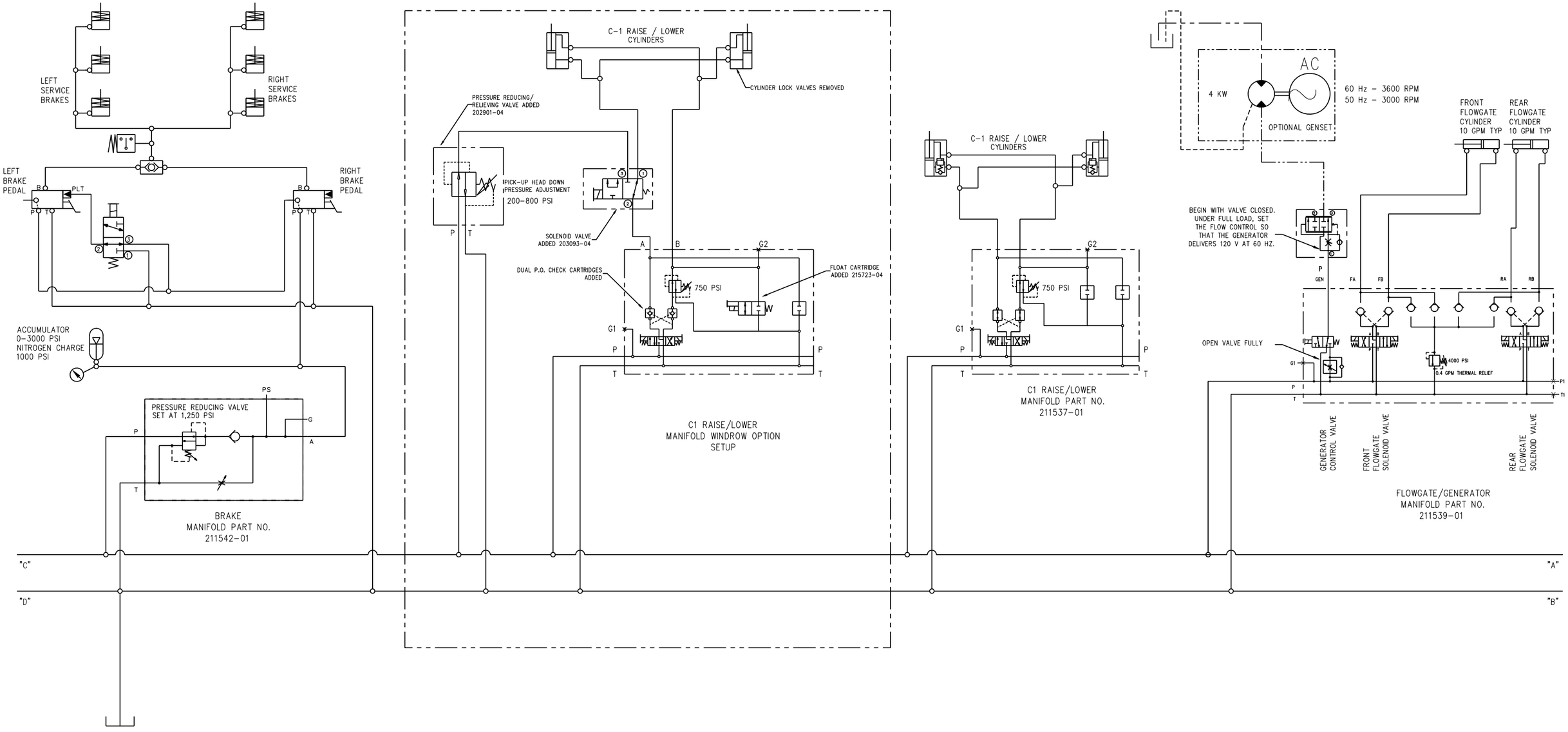
# AUXILIARY CIRCUIT

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: | | |
| SCALE: 3/4 | DATE: 10/29/09 | DWG NO: 235483-01 | REV: 0 |




# AUXILIARY CIRCUIT (CON'T)

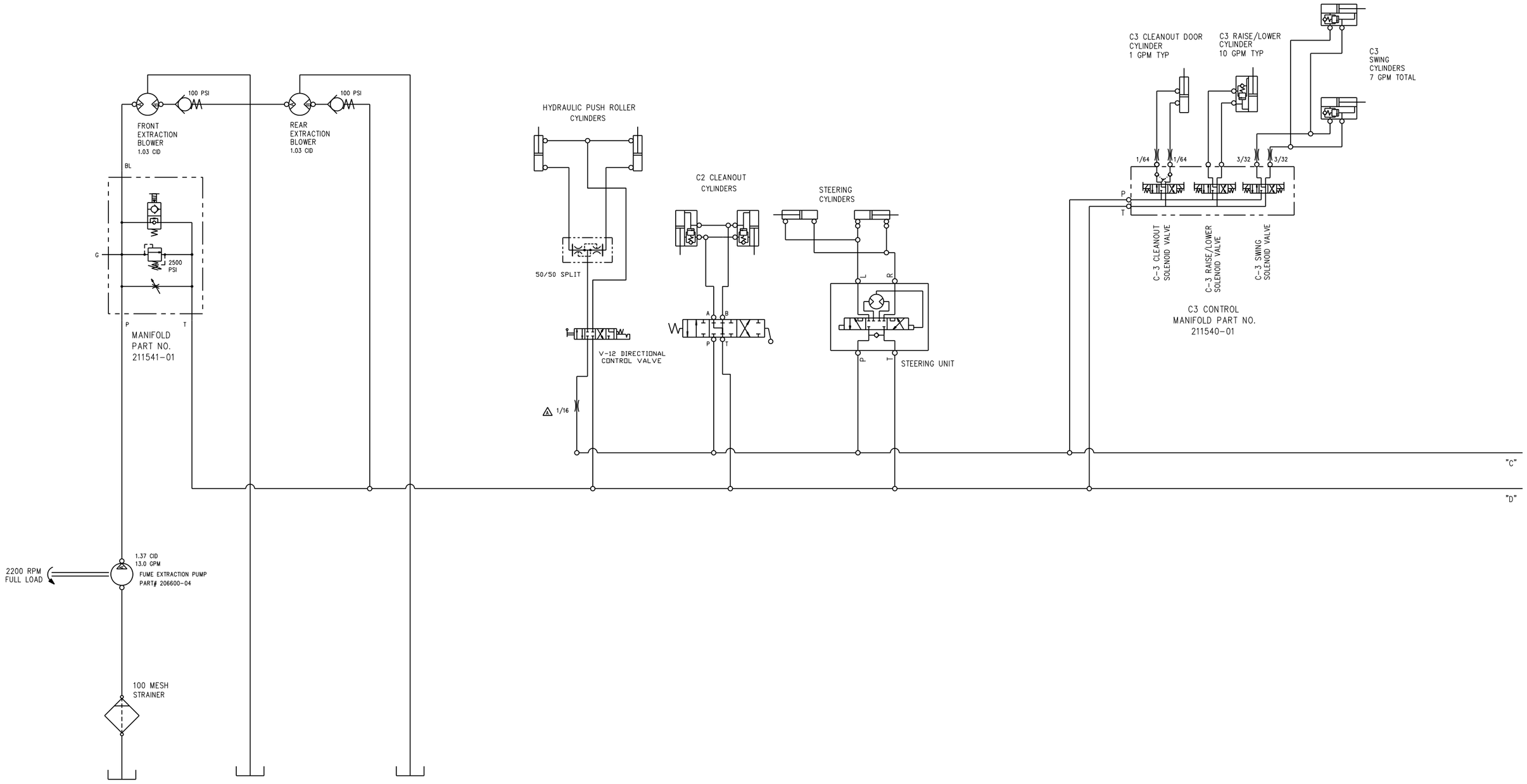
all fractional dim's ? 1/32" – all decimal dim's ? .005 unless noted

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

ROADTEC

PART NAME: SCHEMATIC SB 2500D HYDRAULIC

| | | | |
|---|---|---|---|
| 01 REQ'D PER 2500D | SHEET NO 5 of 6 | FAB CODE 615 | EFFECTIVE S/N 1109 |
| DRAWN BY JEH / CHECKED BY | | | |
| SCALE 3/4 / DATE 10/29/09 | DWG NO 235483–01 | | REV. 0 |




# 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 |
|---|---|---|---|---|---|

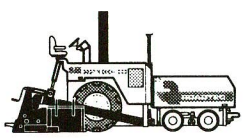
ROADTEC

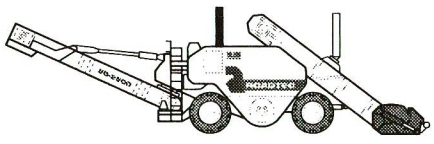
| | | | |
|---|---|---|---|
| PART NAME: SCHEMATIC SB 2500D HYDRAULIC | | | |
| 01 REQ'D PER 2500D | SHEET NO: 6 of 6 | FAB CODE: 615 | EFFECTIVE S/N: 1109 |
| DRAWN BY: JEH | CHECKED BY: | DWG NO: 235483-01 | REV: 0 |
| SCALE: 3/4 | DATE: 10/29/09 | | |

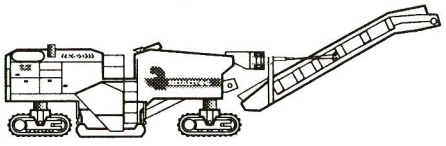
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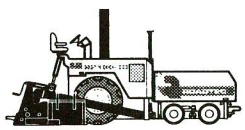
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

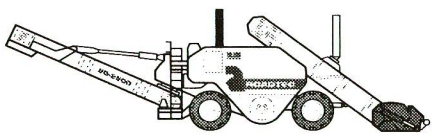
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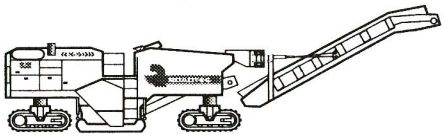
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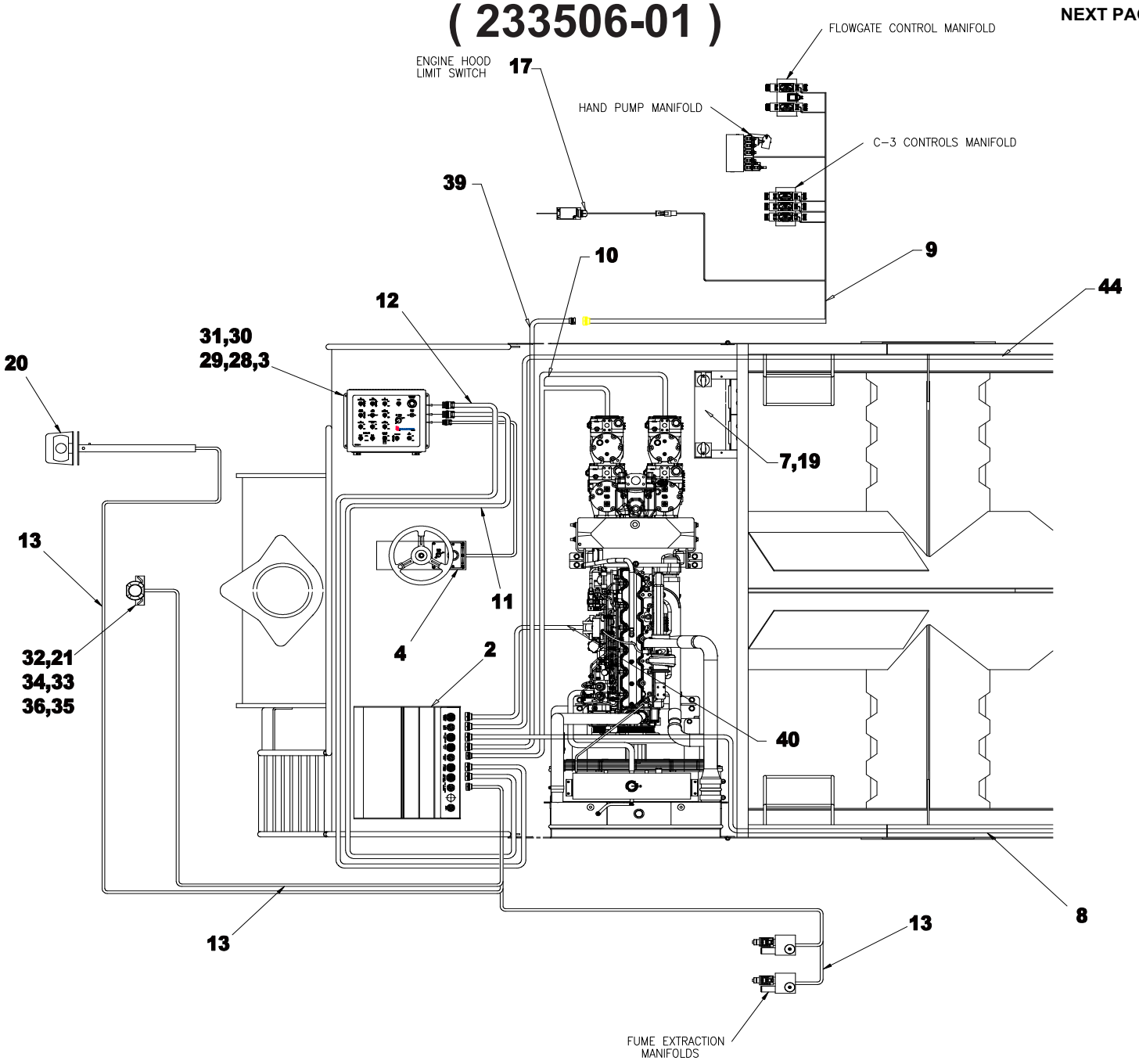
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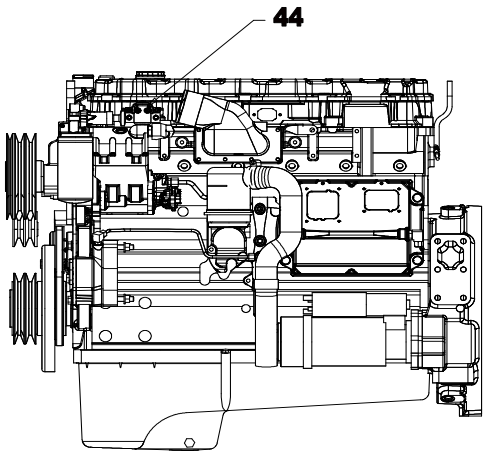
# SECTION 6 : ELECTRICAL


| 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 | | |

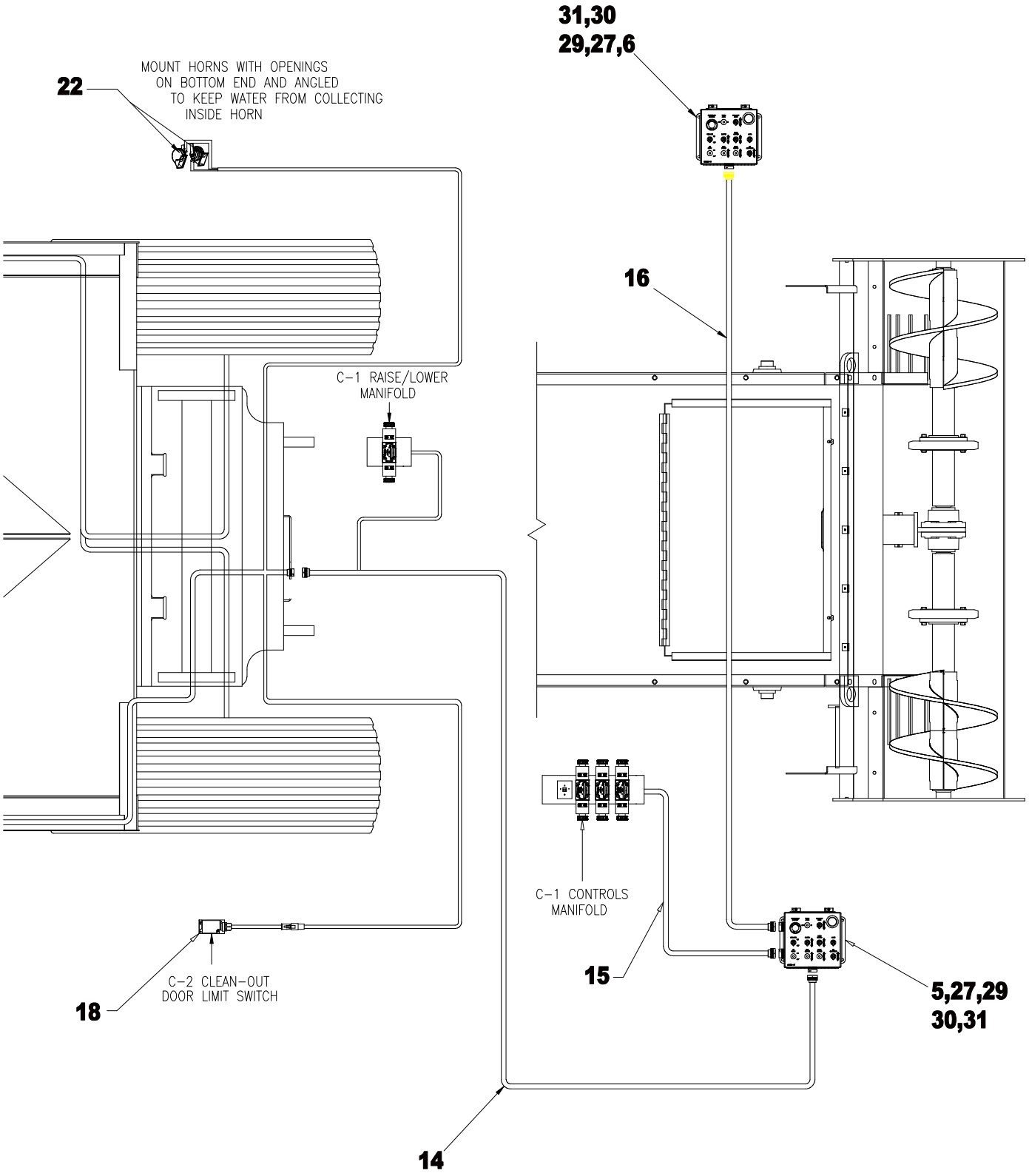
# SB-2500D ELECTRICAL ASSEMBLY
# ( 233506-01 )

NEXT PAGE



# SB-2500D ELECTRICAL ASSEMBLY
# ( 233506-01 )

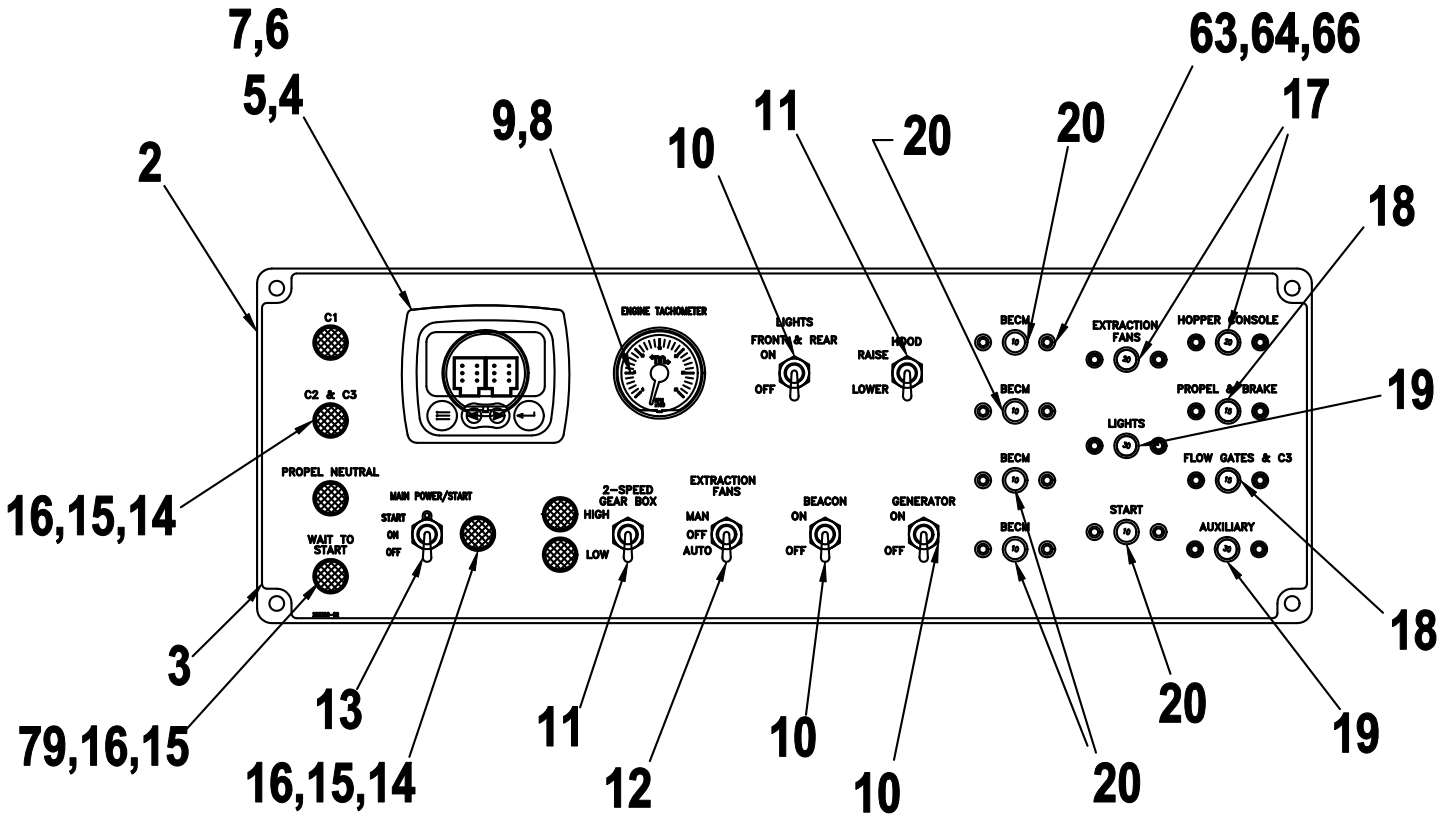


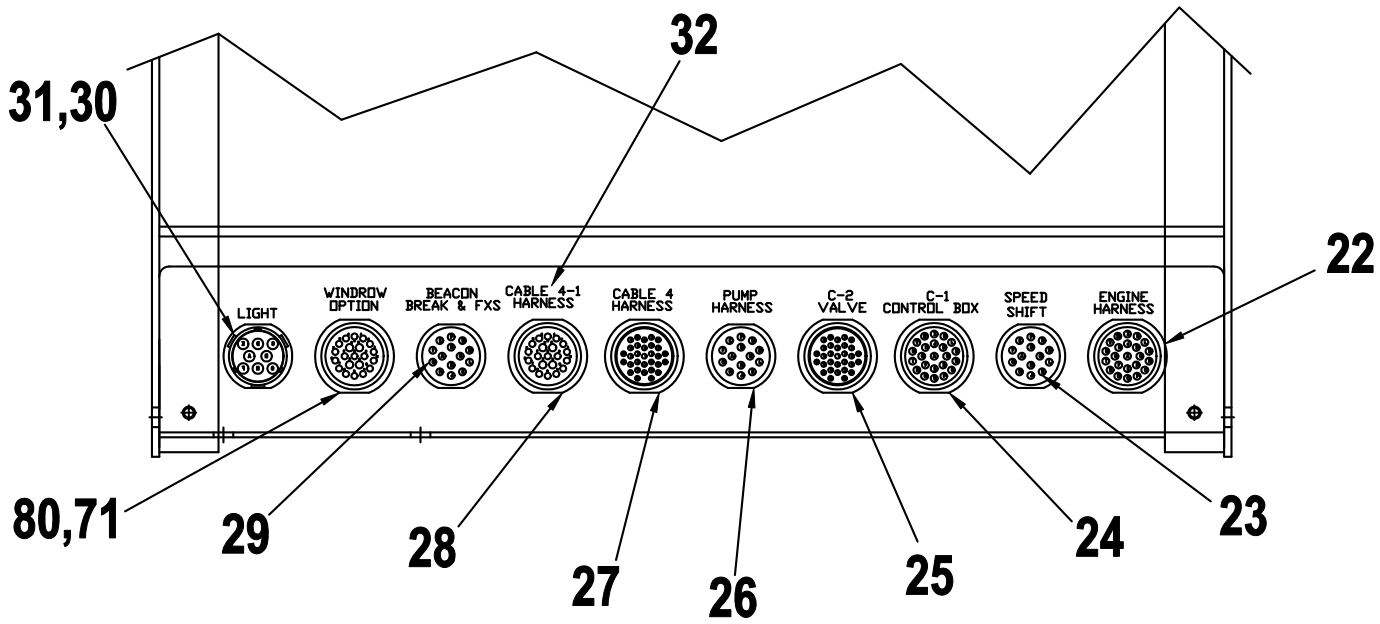
# ELECTRICAL ASSEMBLY
# (233506-01)

| 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 )

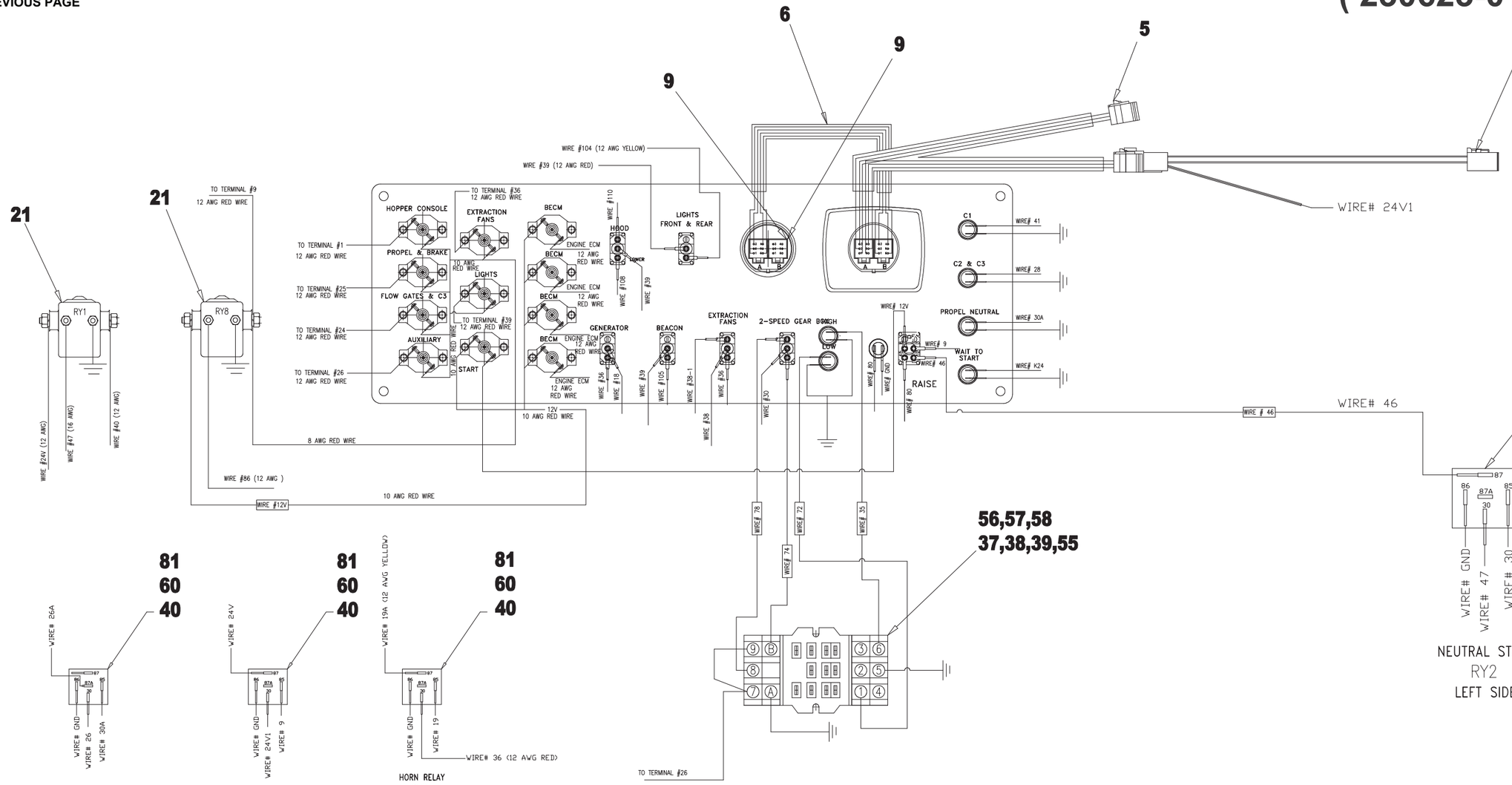
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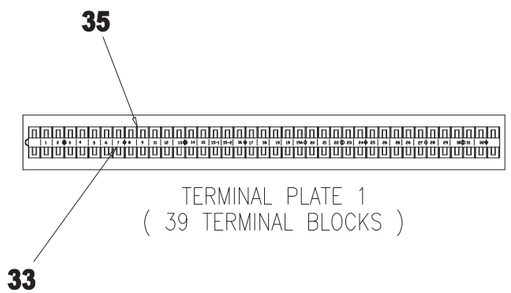
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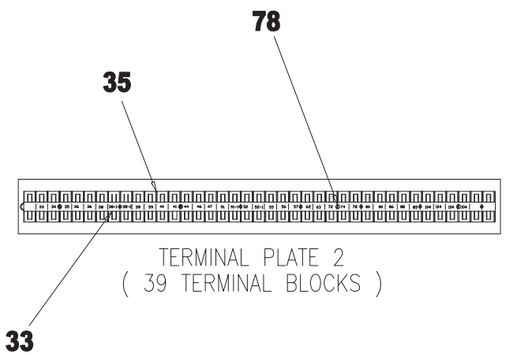
# CENTER CONSOLE ELECTRICAL ASSY.
# ( 230623-01 )

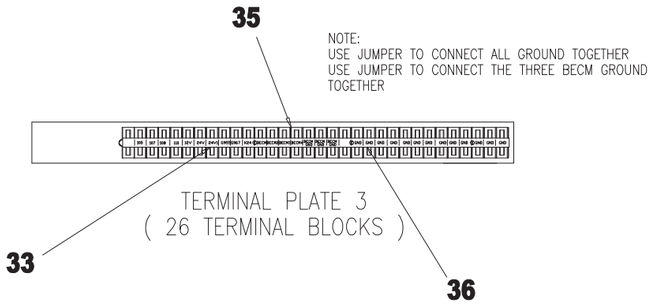








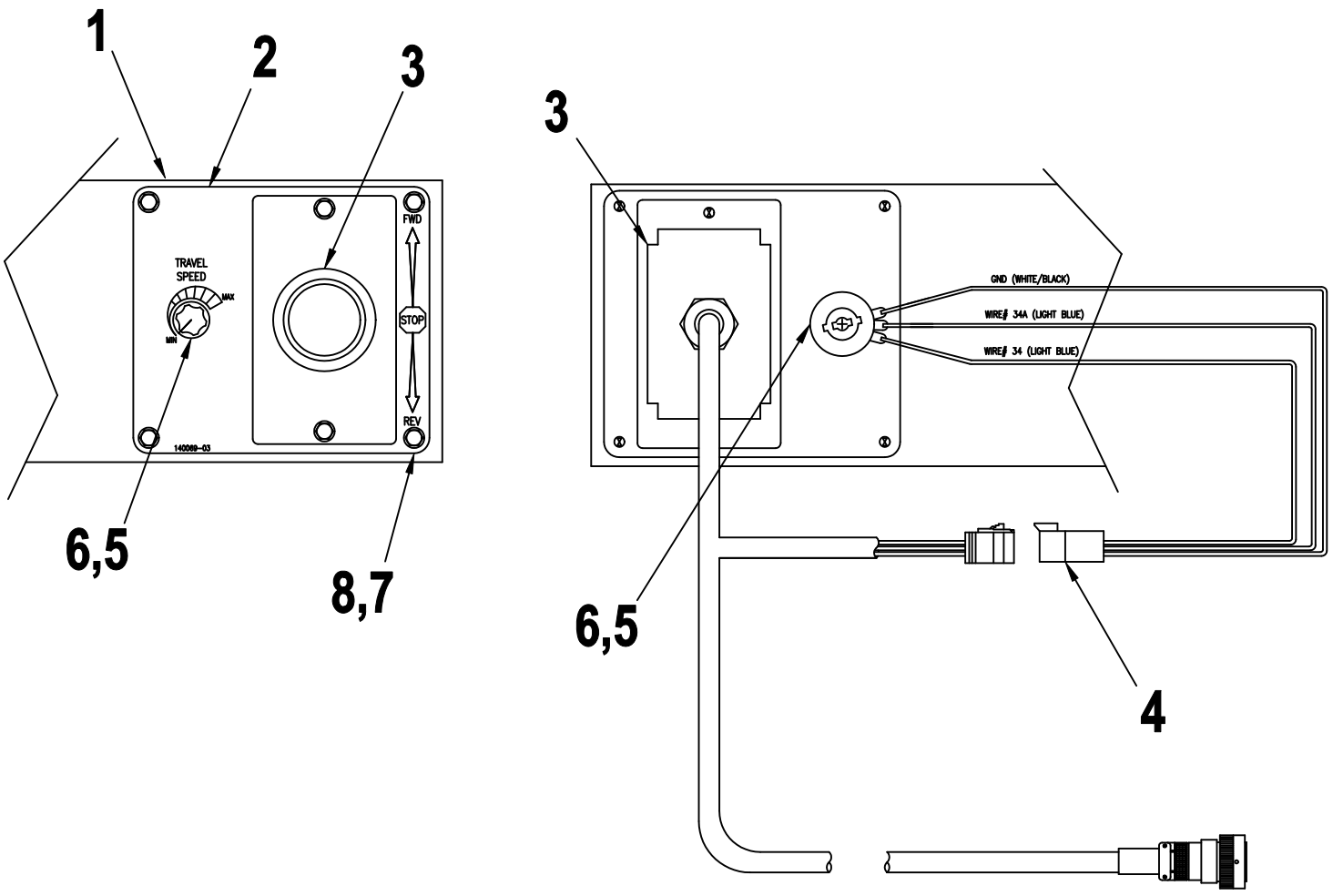
# CENTER CONSOLE ELECTRICAL ASSY. (230623-01)

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

# CENTER CONSOLE ELECTRICAL ASSY. (230623-01)

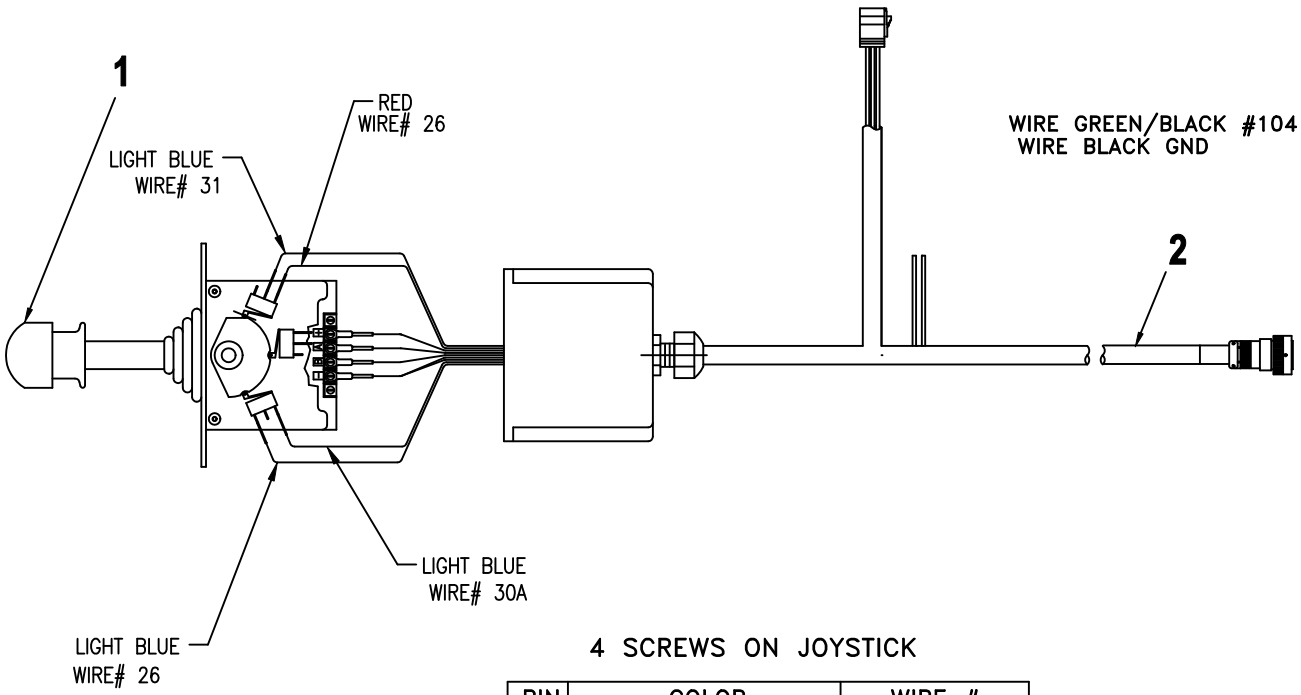
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **46** | 90553 | RING TERMINAL 1/4 | 2 |
| **47** | 93988 | STUD - 10 AWG 5/16 | 3 |
| **48** | 128219 | RING TERMINAL | 4 |
| **49** | 97735 | FEMALE TERMINAL | 6 |
| **50** | 121539 | MALE TERMINAL | 3 |
| **51** | 98319 | FEMALE SPADE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

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




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

# JOYSTICK ASSEMBLY
# (230617-02)




4 SCREWS ON JOYSTICK

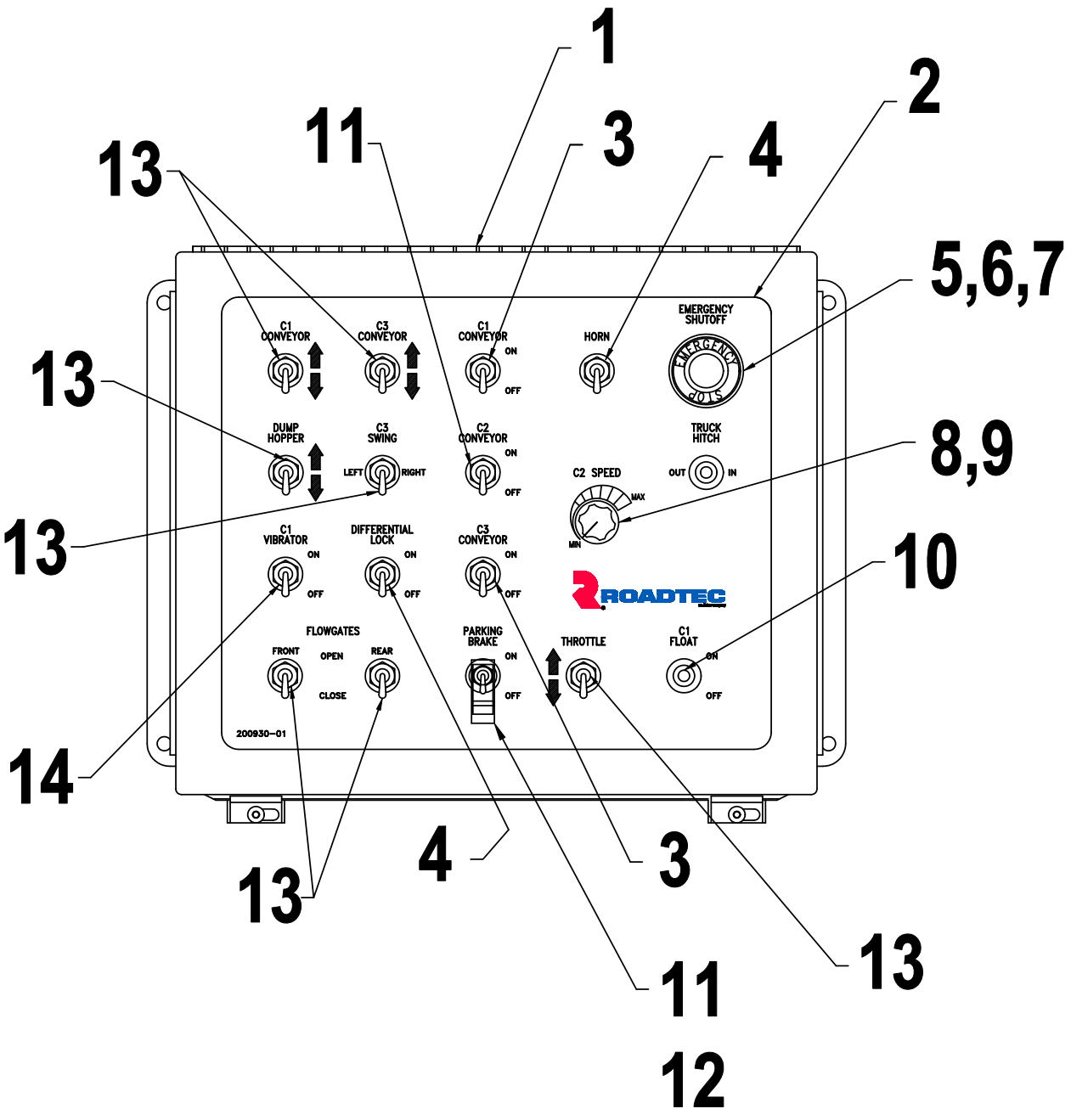
| PIN | COLOR | WIRE # |
|---|---|---|
| – | WHITE/BLACK | GND |
| B | LIGHT BLUE | 33 |
| A | LIGHT BLUE | 32 |
| + | LIGHT BLUE | 34A |

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

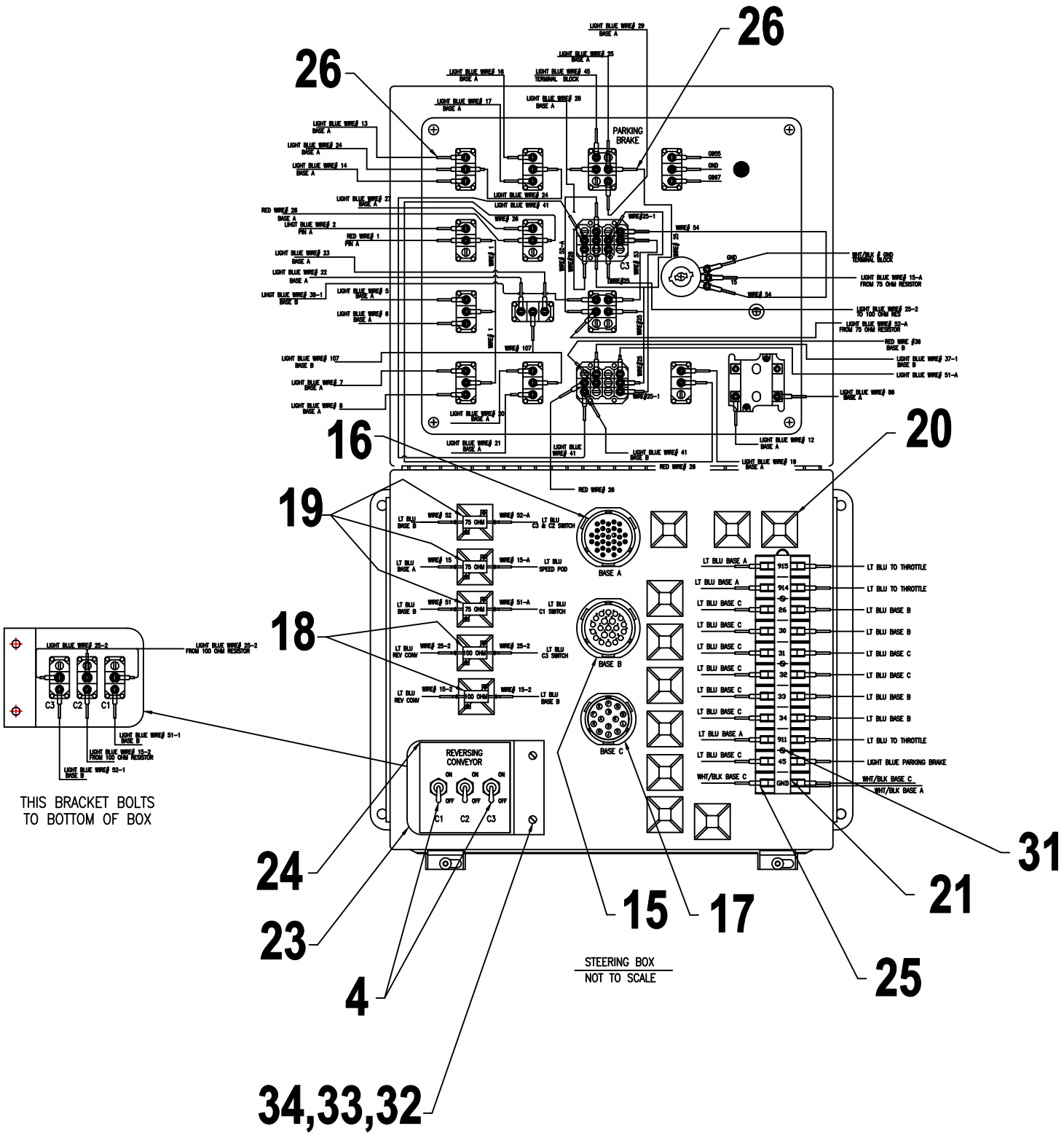
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 98204 | ELECTRICAL CONTROL | 1 |
| 2 | SEE KIT | WIRE HARNESS - JOYSTICK | REF |
| 3 | | | |
| 4 | | | |
| 5 | | | |

# STEERING BOX ELECTRICAL ASSEMBLY.
# ( 216472-01 )

NEXT PAGE



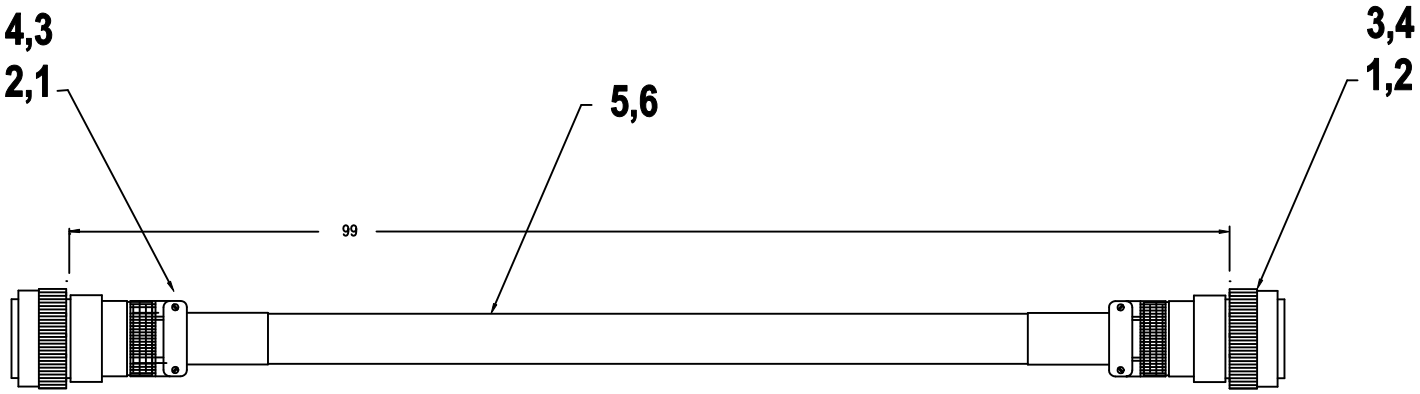
# STEERING BOX ELECTRICAL ASSEMBLY.
# ( 216472-01 )



# STEERING BOX ELECTRICAL ASSEMBLY
# ( 216472-01 )

| 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 )

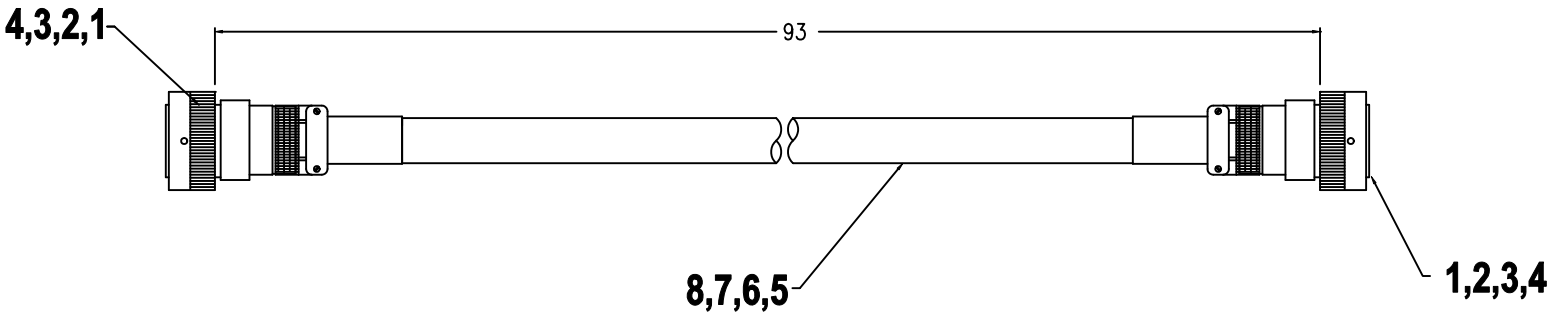



31 PIN LAY-OUT

| 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 |

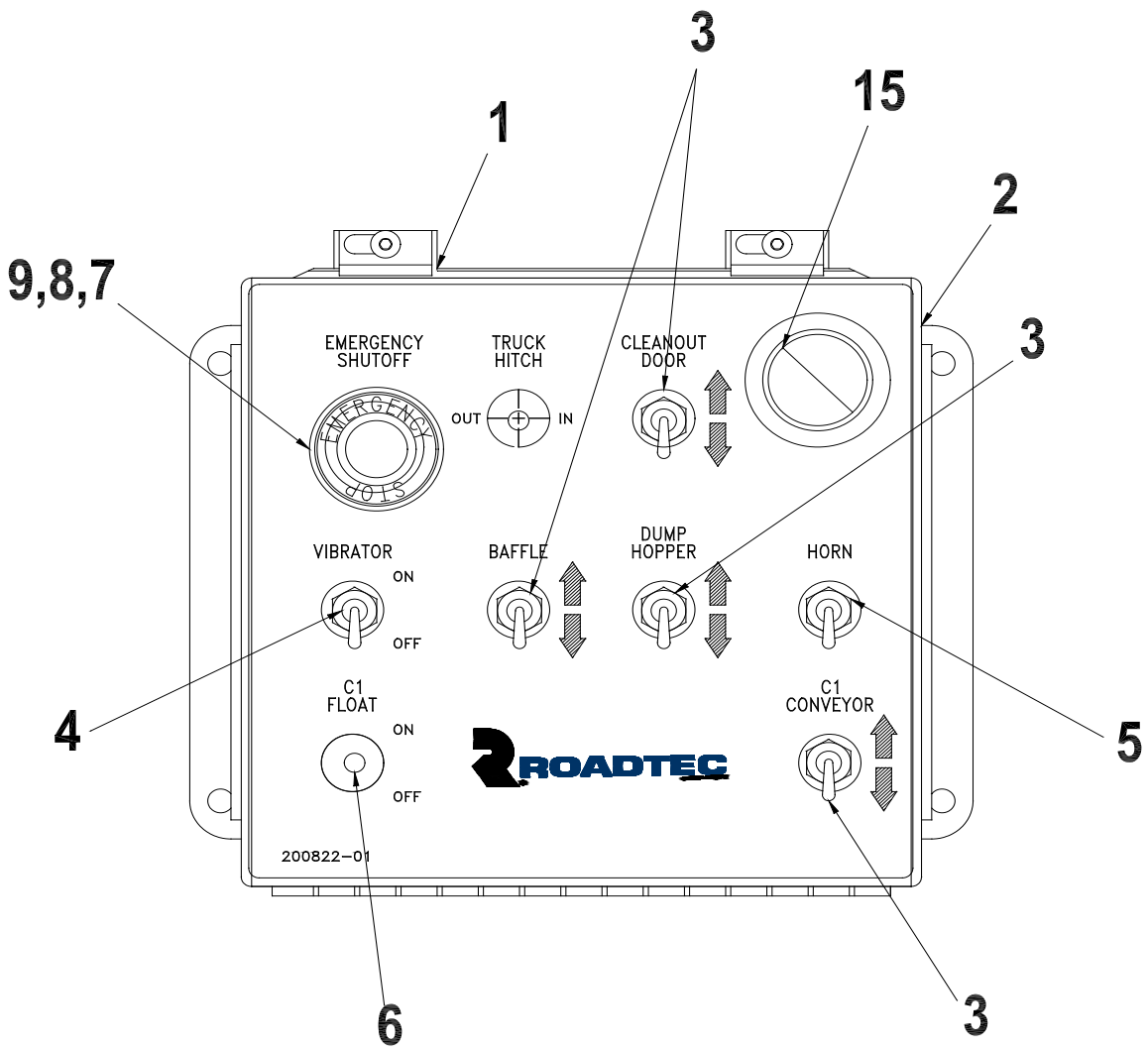
* NOTE: PINS B, D, E & G IS 12 AWG

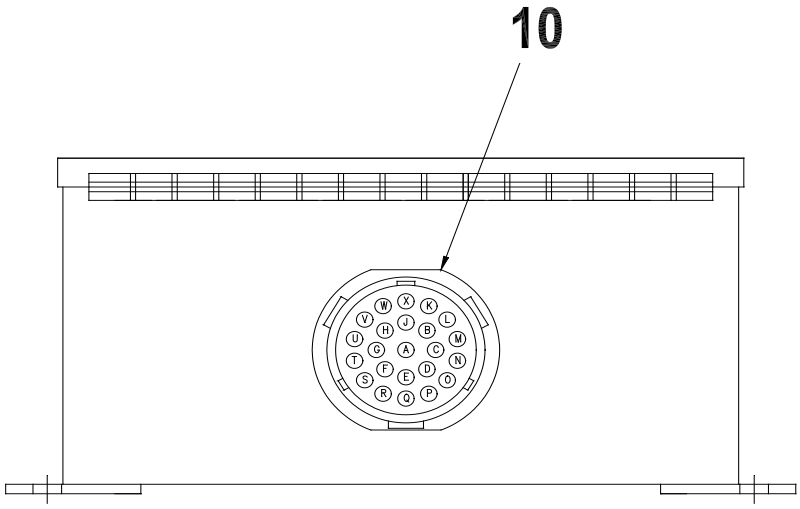
16 AWG TO BE 19 STRANDS OF 29 GAUGE FULLY ANNEALLED BARE COPPER WIRE
WIRING INSULATION TO BE CROSS LINKED POLYETHYLENE TYPE GXL
NO SUBSTITUTIONS WITHOUT ROADTEC ENGINEERING APPROVAL

| 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 )

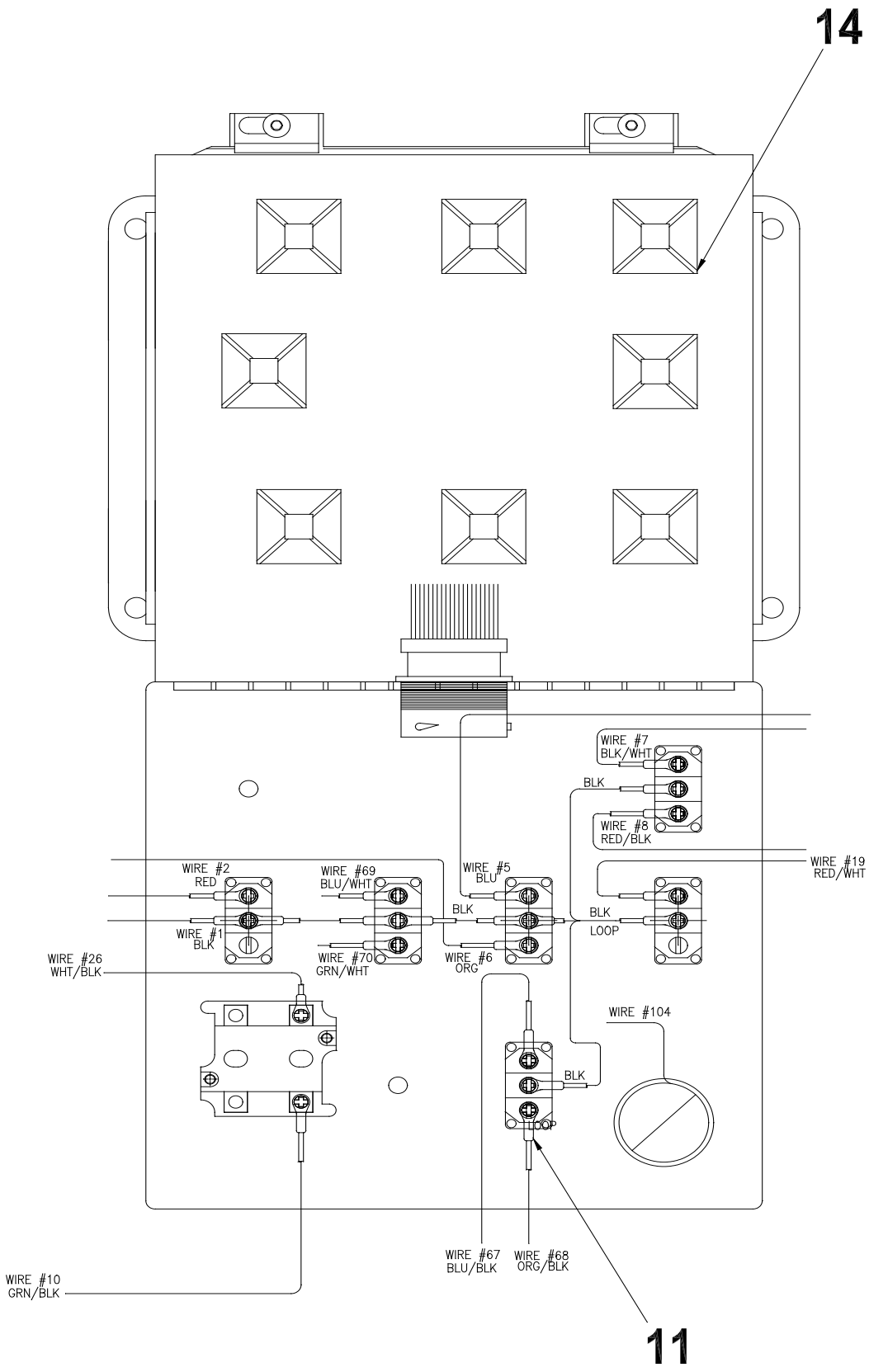
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# L.H. C-1 CONTROL BOX ASSEMBLY.
# ( 214262-01 )

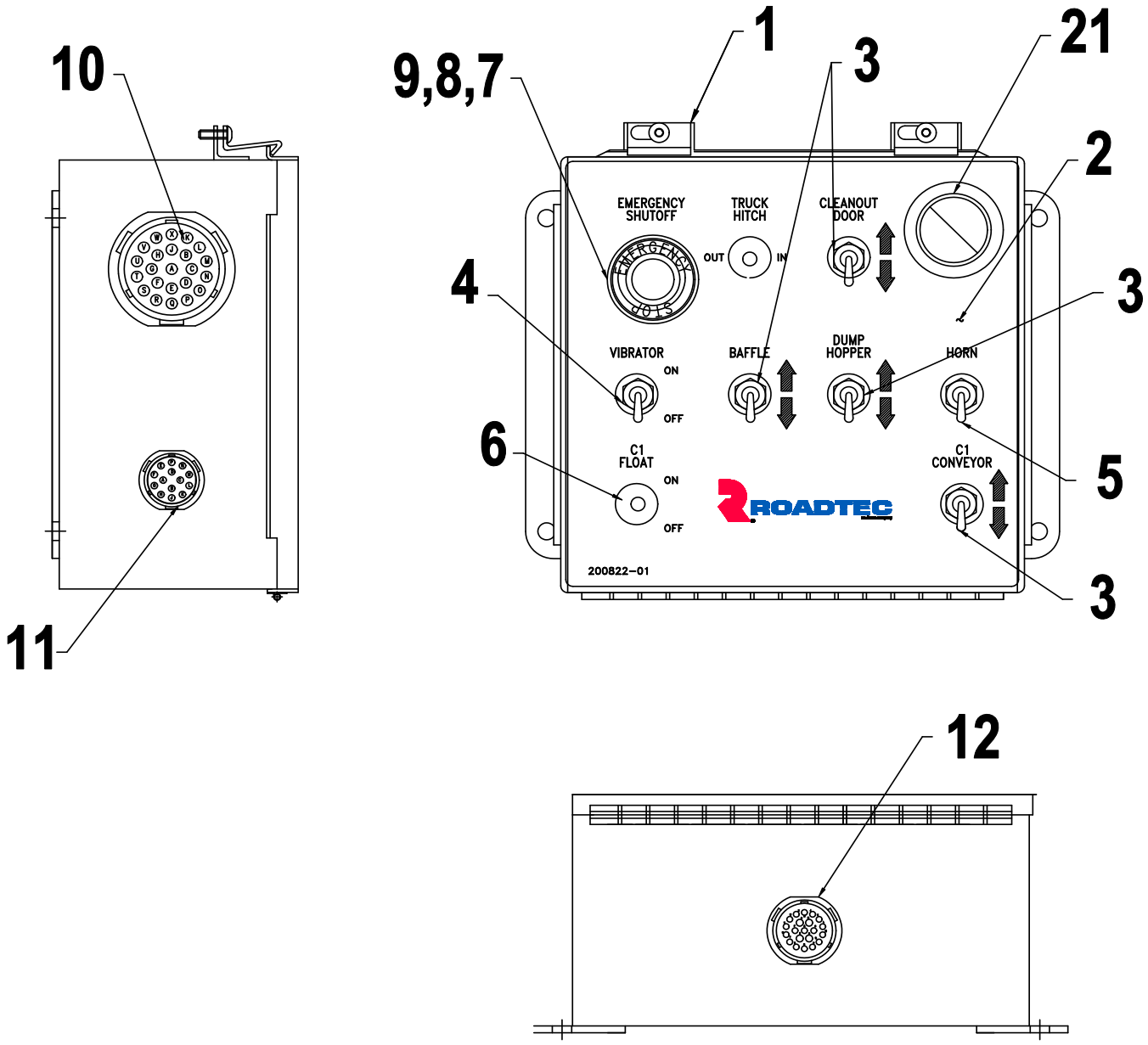


# L.H. C-1 CONTROL BOX ASSEMBLY
# ( 214262-01 )

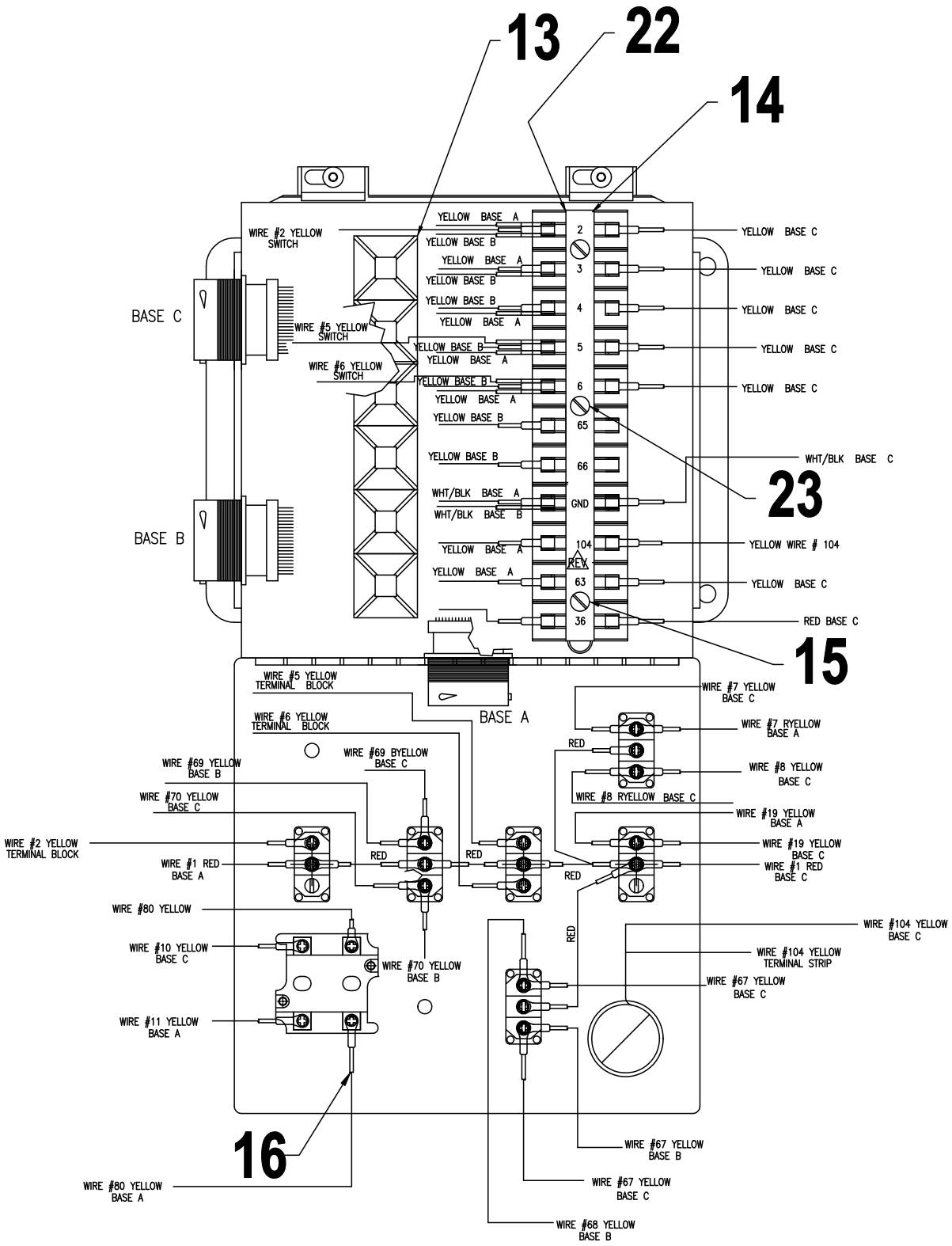
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 214192-01 | LH C-1 CONTROL BOX | 1 |
| **2** | 200822-01 | DECAL - C-1 CONTROL BOX | 1 |
| **3** | 139471 | TOGGLE SWITCH | 4 |
| **4** | 13E68 | TOGGLE SWITCH | 1 |
| **5** | 97542 | TOGGLE SWITCH | 1 |
| **6** | 97944-04 | HOLE 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 )

NEXT PAGE



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

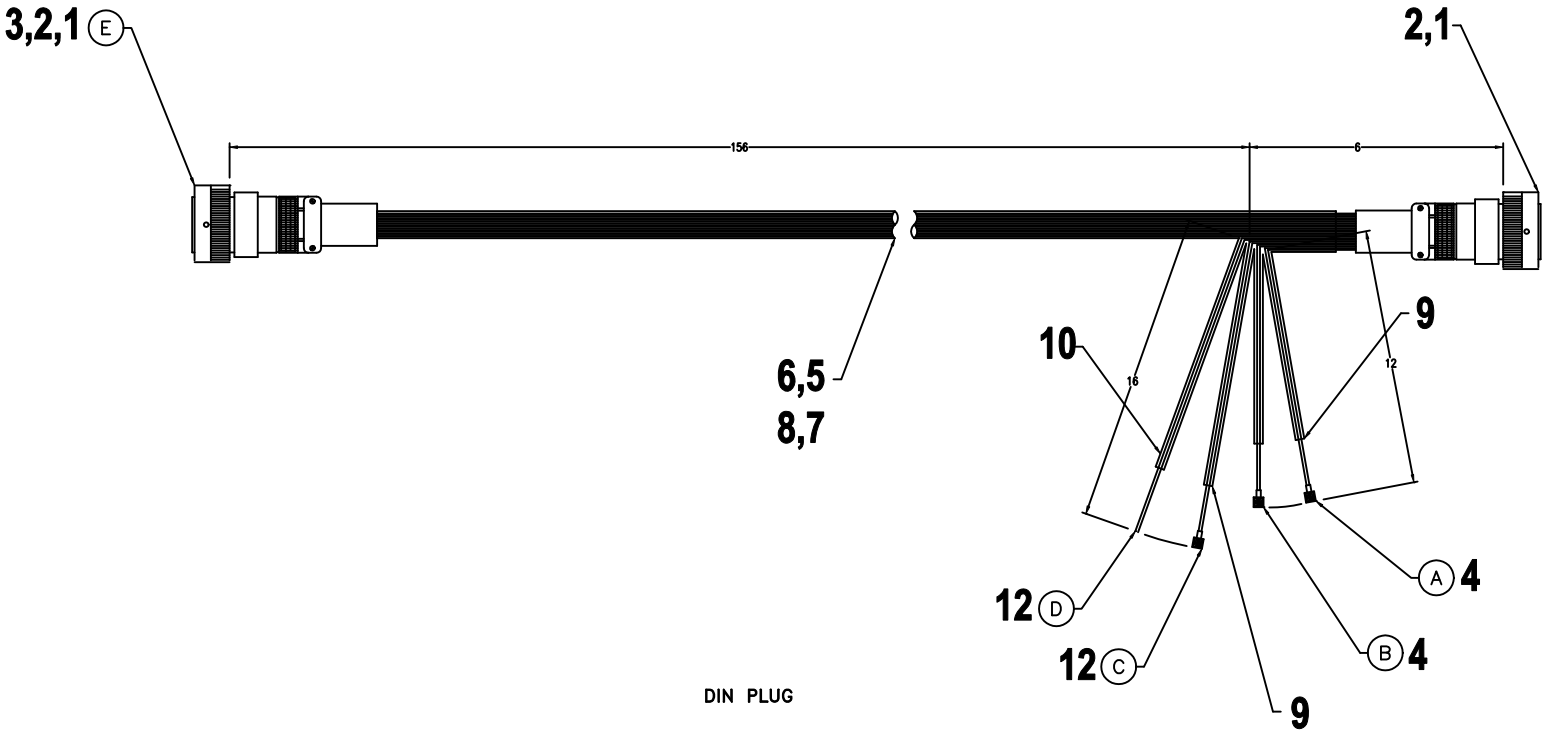


# R.H. C-1 CONTROL BOX ASSEMBLY
# ( 215520-01 )

| 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 )

NEXT PAGE




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

PREVIOUS PAGE

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

23 PIN LAY-OUT

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

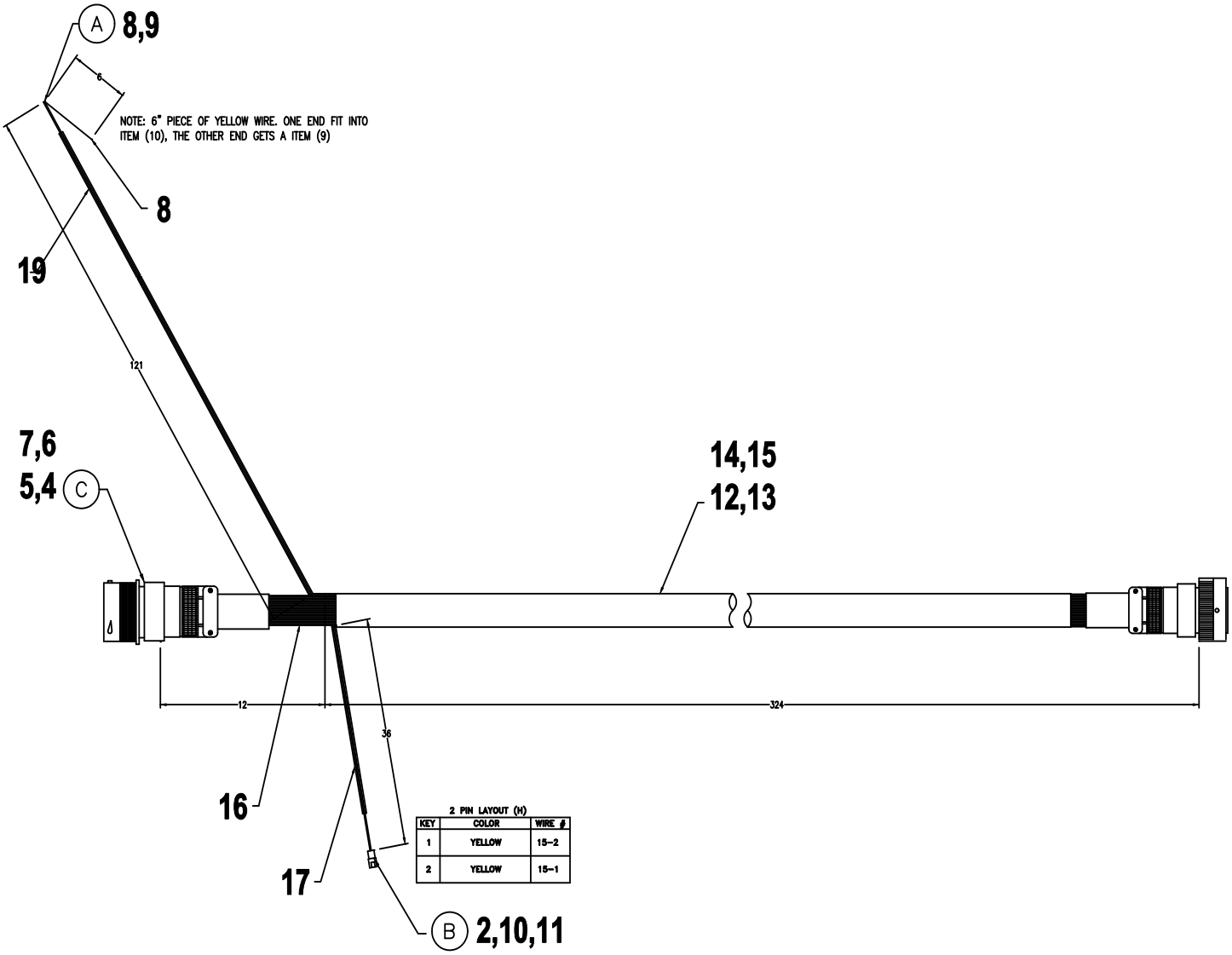
23 PIN LAY-OUT

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

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

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

NEXT PAGE




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



ROADTEC an Astec Industries Company

PREVIOUS PAGE

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

## 23 PIN LAY-OUT

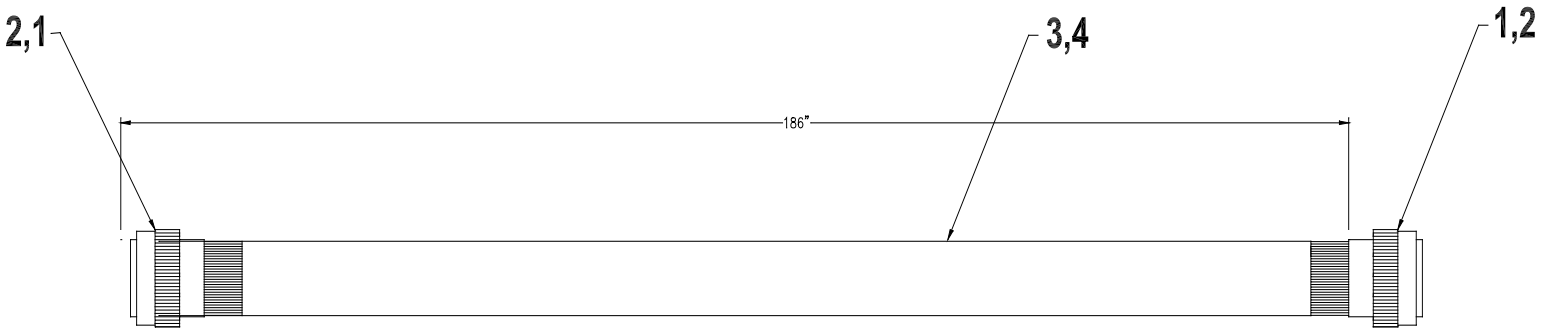
| PIN | COLOR | WIRE # |
|---|---|---|
| A | YELLOW | 3 |
| B | YELLOW | 19 |
| C | WHITE/BLACK | GND |
| D | YELLOW | 80 |
| E | RED | 1 |
| F | YELLOW | 5 |
| G | YELLOW | 104 |
| H | YELLOW | 4 |
| J | YELLOW | 2 |
| K | YELLOW | 11 |
| L | YELLOW | 6 |
| M | YELLOW | 63 |
| N | YELLOW | 8 |
| O |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

## 31 PIN LAYOUT

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

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

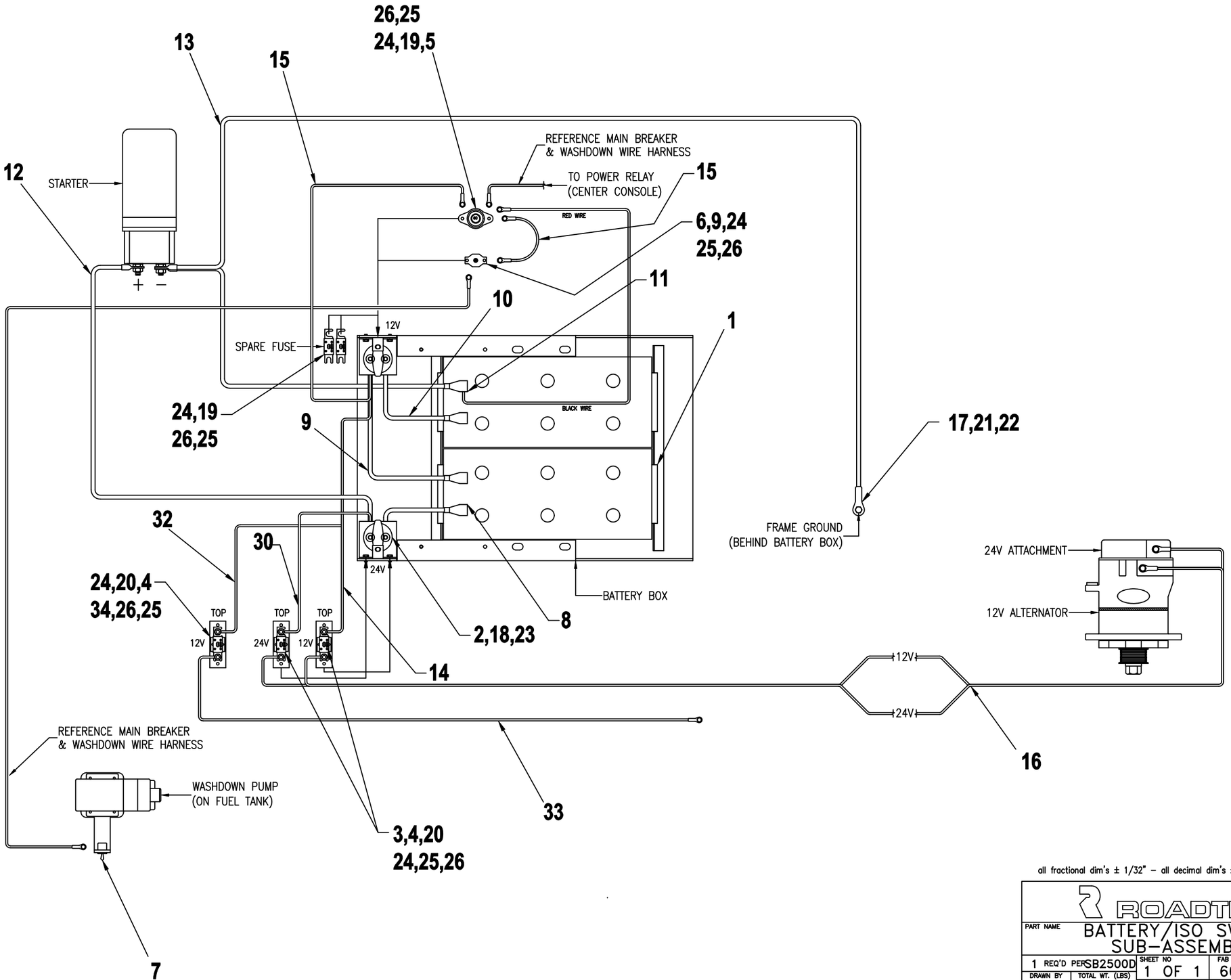
# HARNESS, C-1 CONTROL BOX CROSSOVER
# ( 214222-02 )




23 PIN LAY–OUT DETAIL

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

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




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

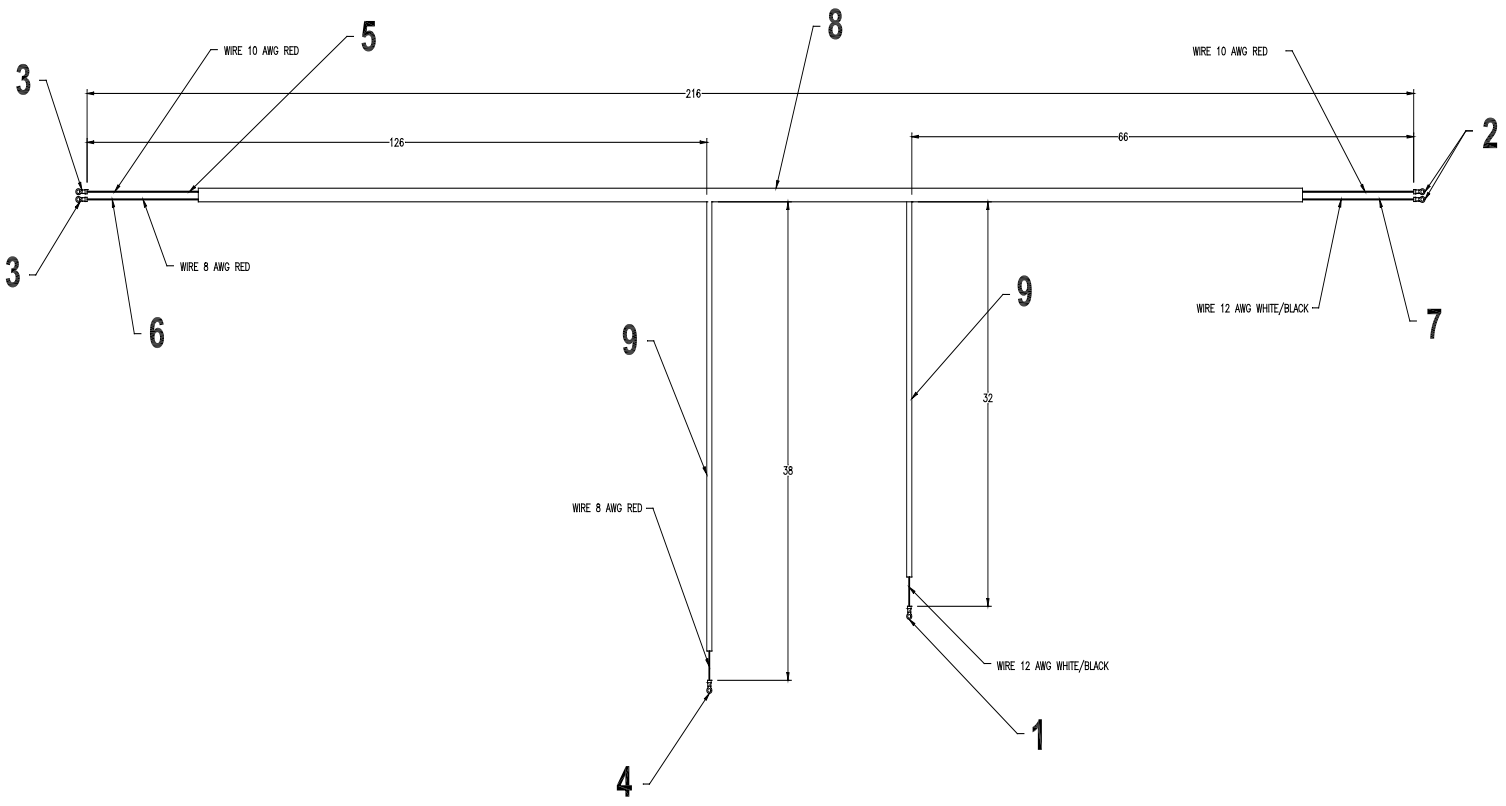
ROADTEC

| | | | | |
|---|---|---|---|---|
| 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)

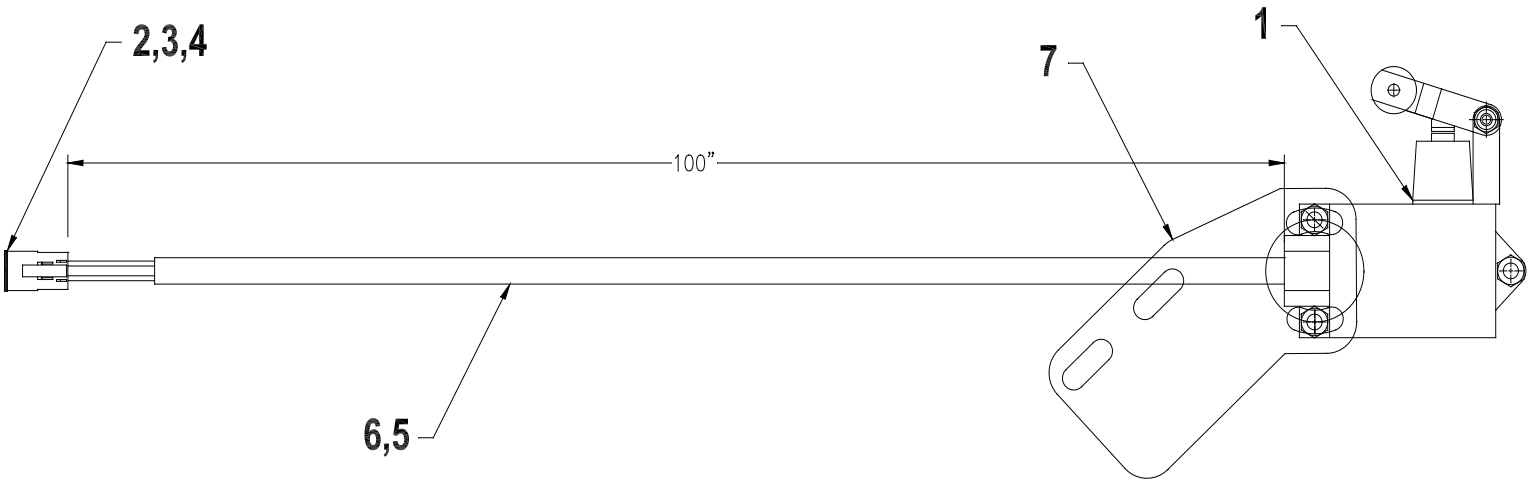
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 11S35 | BATTERY - WET CHARGE 4D 12V | 2 |
| 2 | 130644 | SWITCH - BATTERY ISOLATION | 2 |
| 3 | 146264-04 | BASE - FUSIBLE LINK | 3 |
| 4 | 146263-04 | FUSIBLE LINK - 100 AMP | 3 |
| 5 | 20Z54 | CIRCUIT BREAKER - 60 AMP | 1 |
| 6 | 90930-04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



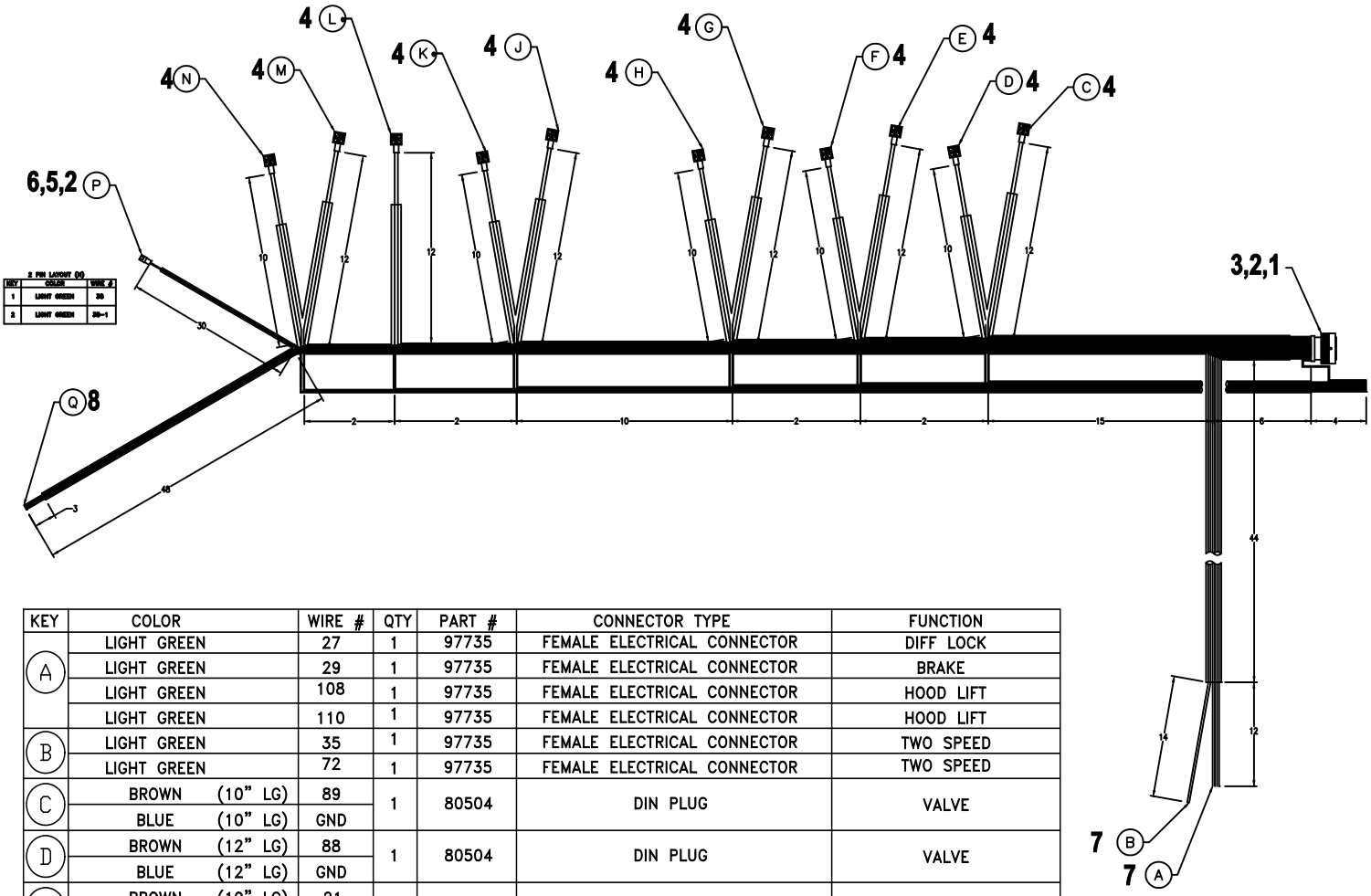

2 PIN LAYOUT (H)

| 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

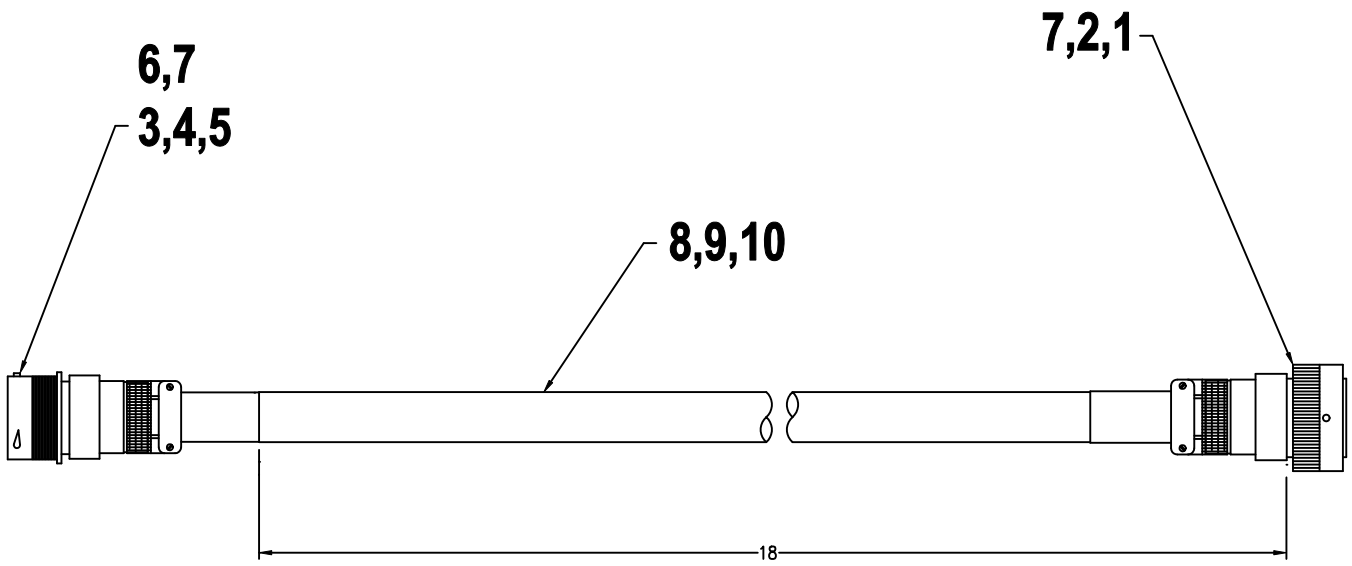
# HARNESS - VALVE STACK
# ( 215514-01 )

## 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 )

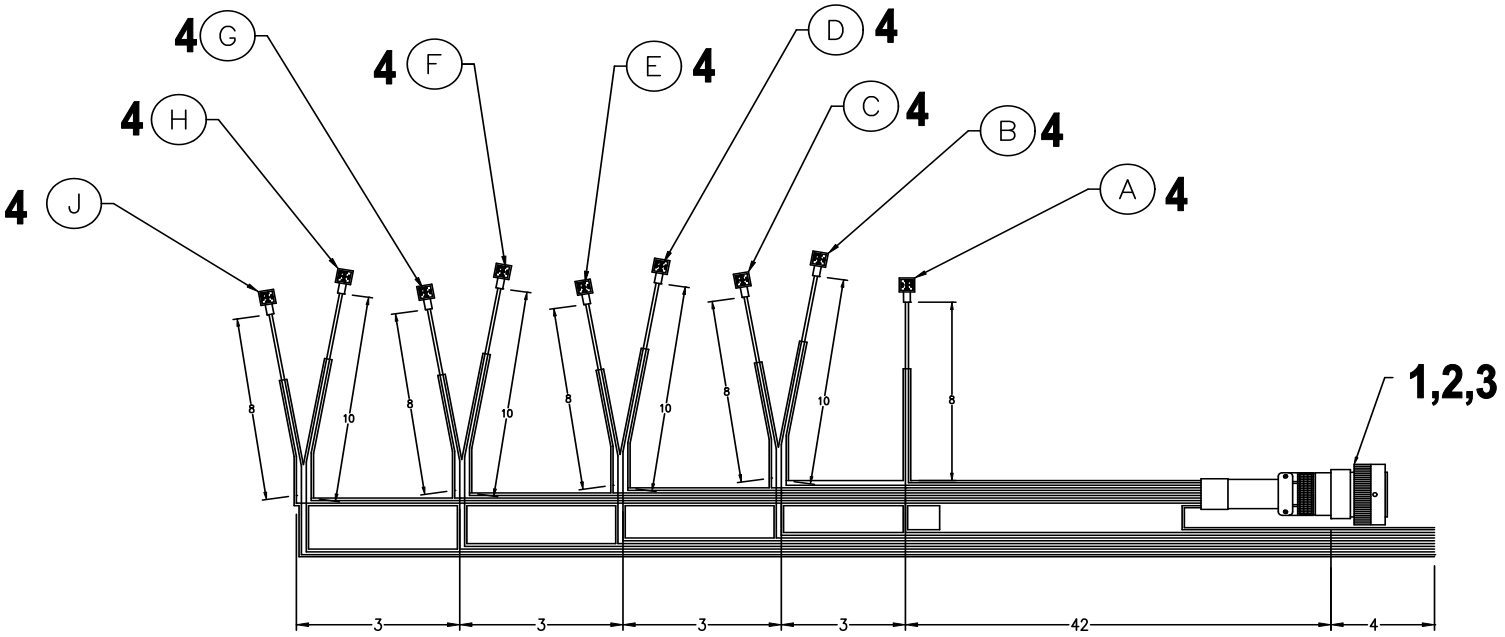



14 PIN LAY-OUT DETAIL

| 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

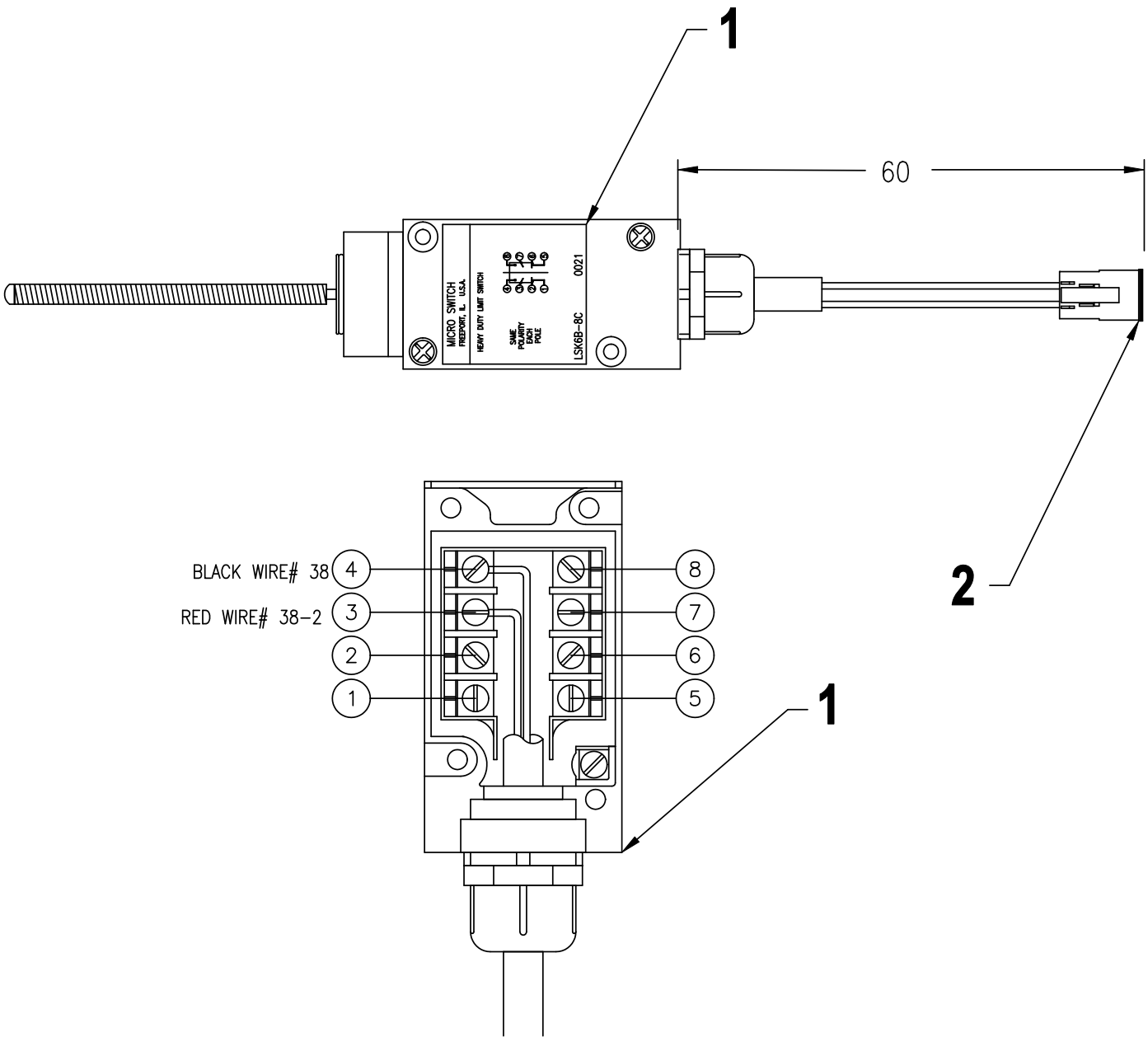
| KEY | COLOR | WIRE # | QTY | PART # | CONNECTOR TYPE | FUNCTION | LENGTH |
|---|---|---|---|---|---|---|---|
| A | BROWN | 2 | 1 | 80504 | DIN PLUG SINGLE ENDED CORDSET | VIBRATOR | 50 |
| | BLUE | GND | 1 | | | | 54 |
| B | BROWN | 69 | 1 | 80504 | DIN PLUG SINGLE ENDED CORDSET | BAFFLE | 53 |
| | 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 | | |

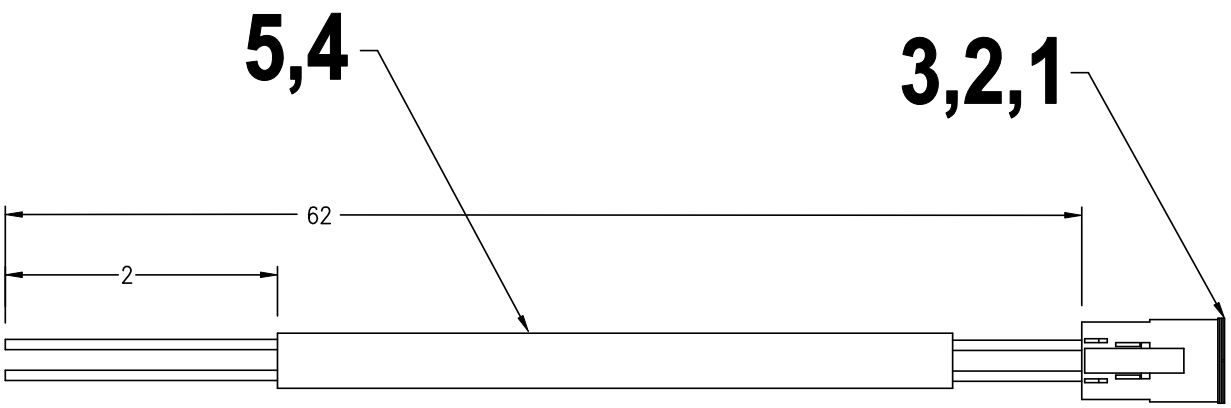
| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| 1 | 211945-04 | DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP | 1 |
| 2 | 137176-04 | DEUTSCH 16 AWG PIN | 10 |
| 3 | 133741-04 | DEUTSCH SEALING PLUG | 4 |
| 4 | 215557-04 | DIN PLUG - SINGLE END CORDSET (MENCO VAC - 200-30) | 9 |
| 5 | | WIRE 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 )



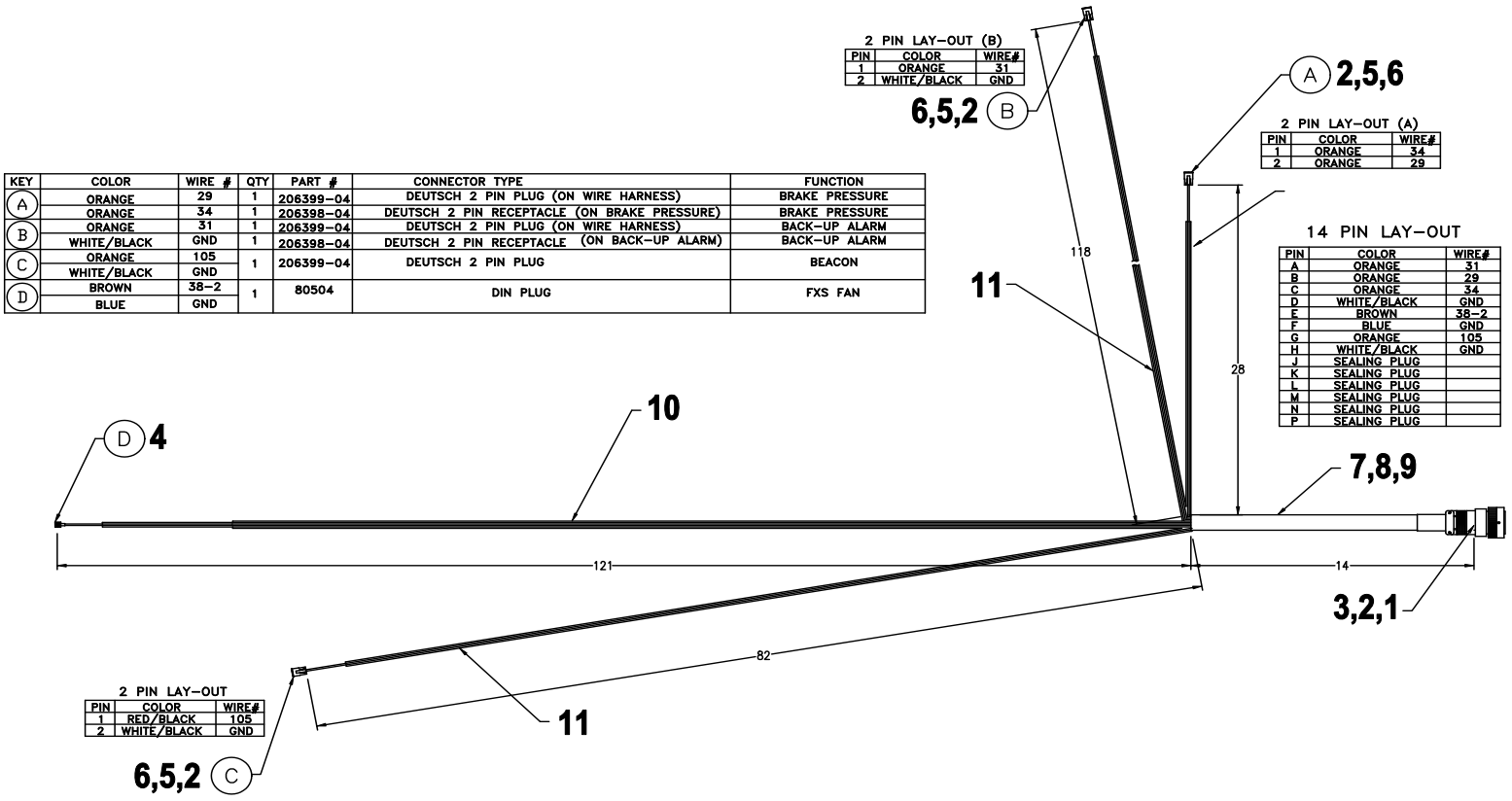

SLUG WIRE ENDS

2 PIN LAYOUT

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

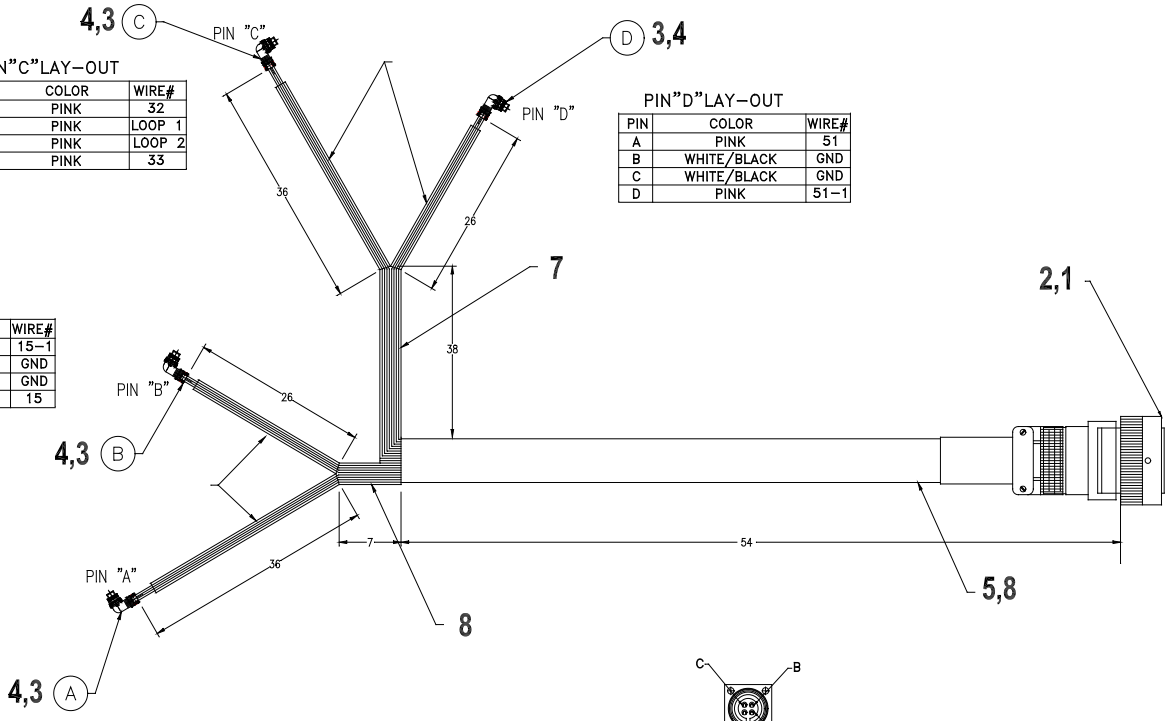
| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 206399-04 | DEUTSCH 2 PIN PLUG | 1 |
| **2** | 133746-04 | DEUTSCH SOCKETS 16 AWG | 2 |
| **3** | 206402-04 | DEUTSCH LOCKING WEDGE | 1 |
| **4** | | WIRE 16 AWG LIGHT GREEN (126-16800-5000-55L) | 124" |
| **5** | 95021 | SPLIT 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<br>86465–04 | ELEC * 4–PIN CONNECTOR<br>ELEC * CABLE CLAMP–5 PIN | C3<br>EXTRA WHITE/BLACK WIRE<br>IS 11"LONG & SOLDER TO<br>OTHER WHITE/BLACK WIRE |
| | PINK | 52 | 1 | | | |
| | PINK | 52–1 | 1 | | | |
| | WHITE/BLACK | GND | | | | |
| B | PINK | 15 | 1 | 92756–04<br>86465–04 | ELEC * 4–PIN CONNECTOR<br>ELEC * CABLE CLAMP–5 PIN | C2<br>EXTRA BLUE WIRE<br>IS 11"LONG & SOLDER TO<br>OTHER BLUE WIRE |
| | WHITE/BLACK | GND | 1 | | | |
| | PINK | 15–1 | 1 | | | |
| | WHITE/BLACK | GND | | | | |
| C | PINK | 32 | 1 | 92756–04<br>86465–04 | ELEC * 4–PIN CONNECTOR<br>ELEC * CABLE CLAMP–5 PIN | TRAVEL<br>PINK WIRE LOOP 1 & LOOP 2<br>IS 11"LONG & SOLDER TO<br>EACH OTHER |
| | PINK | LOOP 1 | 1 | | | |
| | PINK | 33 | 1 | | | |
| | PINK | LOOP 2 | 1 | | | |
| D | PINK | 51–1 | 1 | 92756–04<br>86465–04 | ELEC * 4–PIN CONNECTOR<br>ELEC * CABLE CLAMP–5 PIN | C1<br>EXTRA BLACK WIRE<br>IS 11"LONG & SOLDER TO<br>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 |

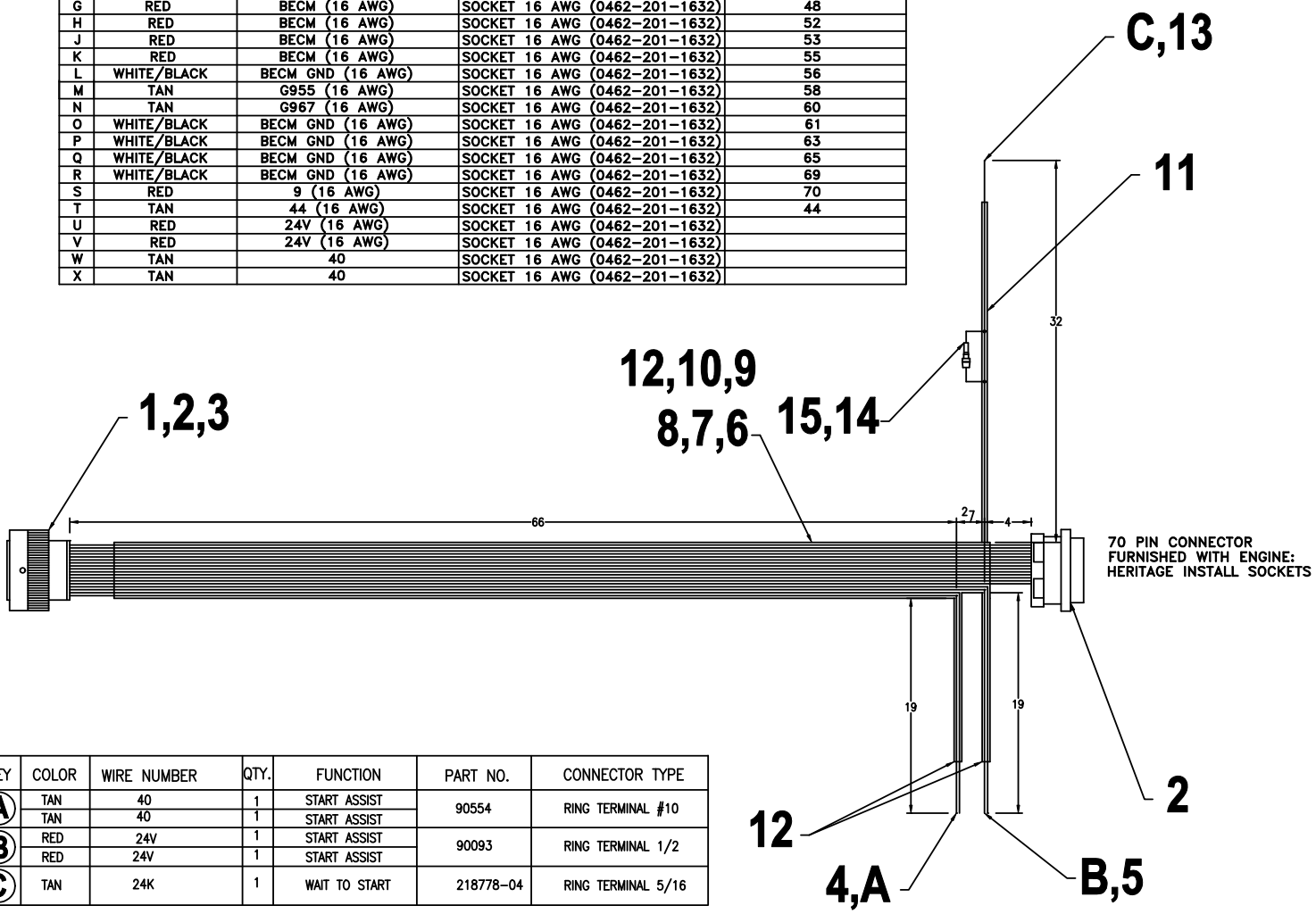
| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 211945-04 | DEUTSCH 14 PIN REVERSE PLUG W/ CLAMP | 1 |
| **2** | 137176-04 | DEUTSCH 16 AWG PINS | 14 |
| **3** | 92756-04 | 4 PIN 90 DEG. | 4 |
| **4** | 86465-04 | CLAMP | 4 |
| **5** | | WIRE 16 AWG PINK (126-16800-5000-PK) | 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 |



ROADTEC an Astec Industries Company

## 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 |

K990 · A234 · 44 · BECM · K900 · BECM · BECM · BECM · GND · G955 · G967 · GND · GND · GND · GND · 9

THROTTLE
UP
DOWN

CAT DATALINK CONNECTOR

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

120 OHM

SHLD + – C A B SHLD + –

3-PIN DEUTSCH

MURPHY POWERVIEW POWER AND CAN HARNESS

6-PIN DEUTSCH

24V1

BACKLIGHT 1
5
GND 6

MURPHY POWERVIEW POWER AND CAN HARNESS

CAN + CAN –

MURPHY

CAN + CAN –

GND

V +

120 OHM

ENGINE RPM GAUGE

ENGINE HARNESS GROUND DISCONNECT SWITCH

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

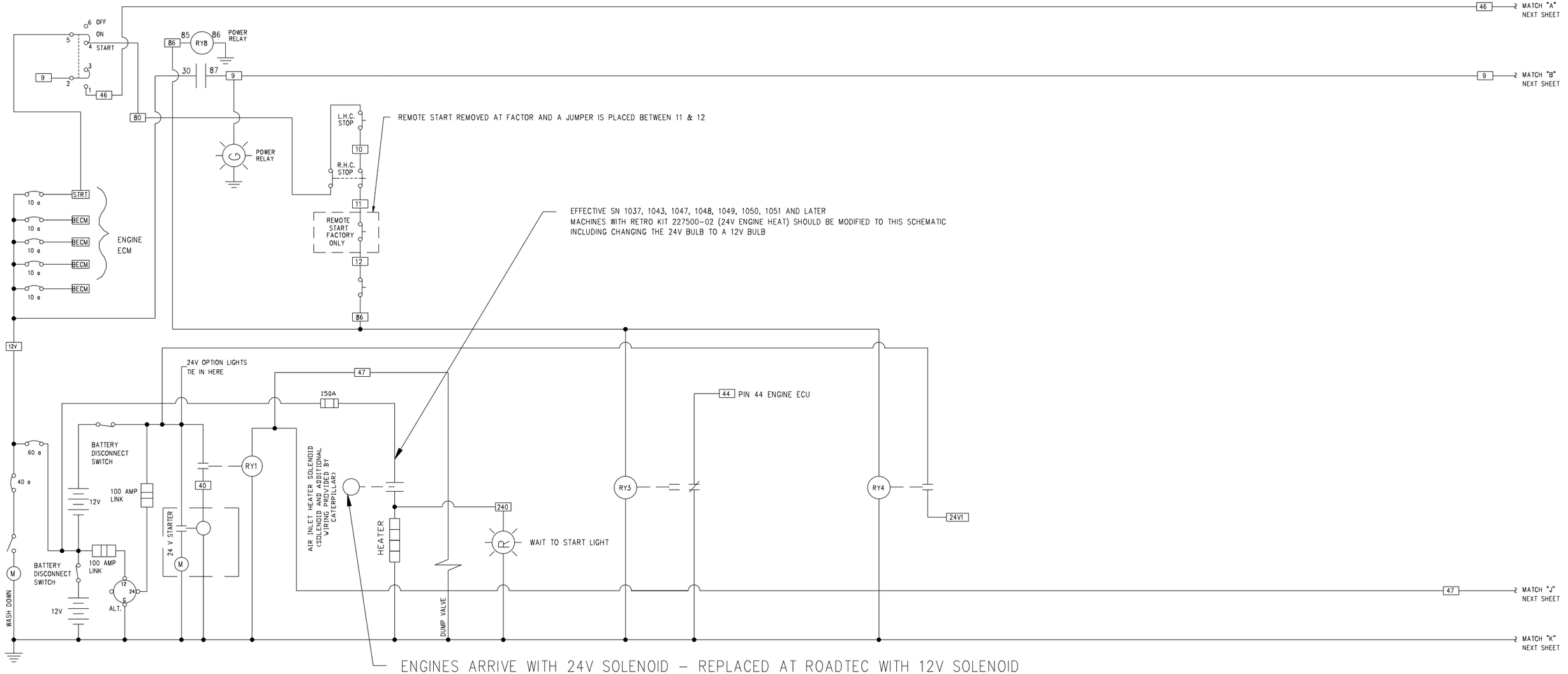
TOTAL WT. (LBS):

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

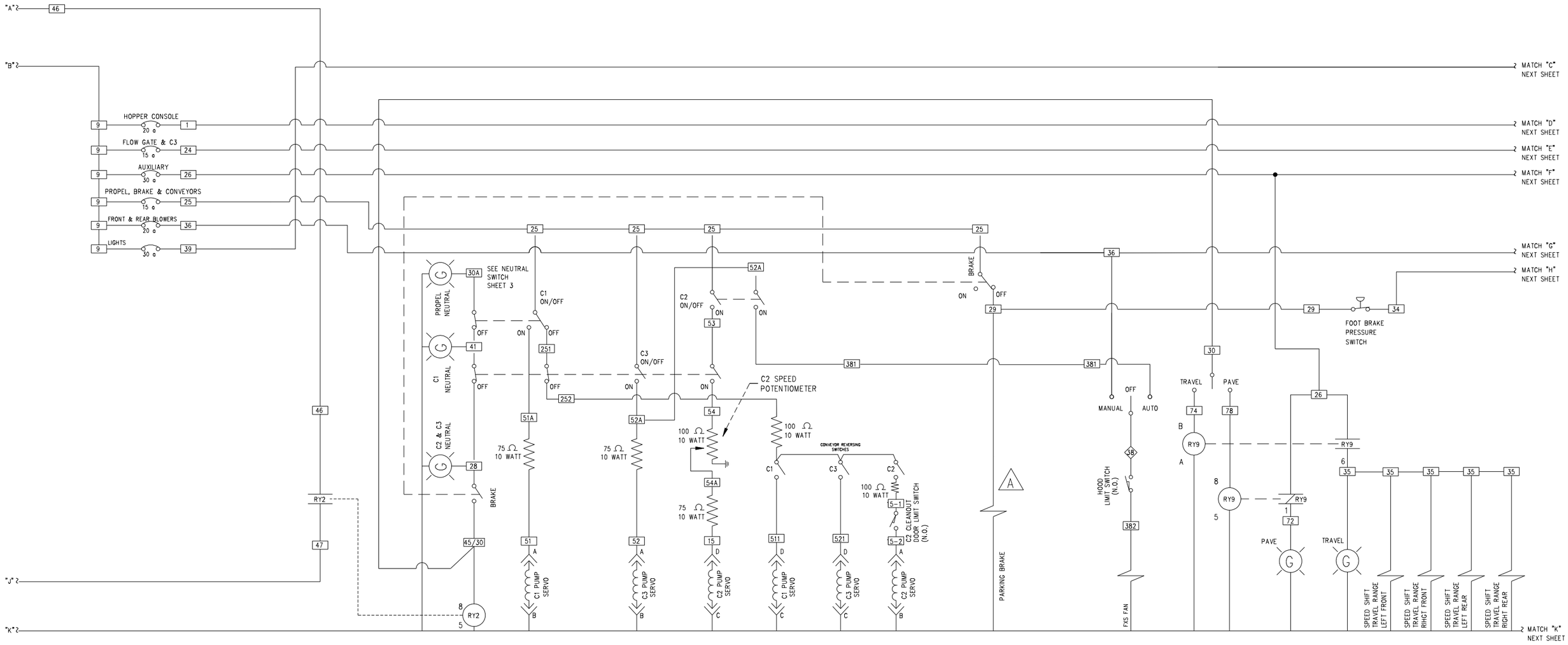
all fractional dim's 1/32" - all decimal dim's .005 unless noted

| 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: KDM | TOTAL WT. (LBS): | 2 OF 5 | 603 | SEE SHEET 1 |
| SCALE: 1=1 | DATE: 9-21-09 | DWG NO: 230667-01 | | REV: C |



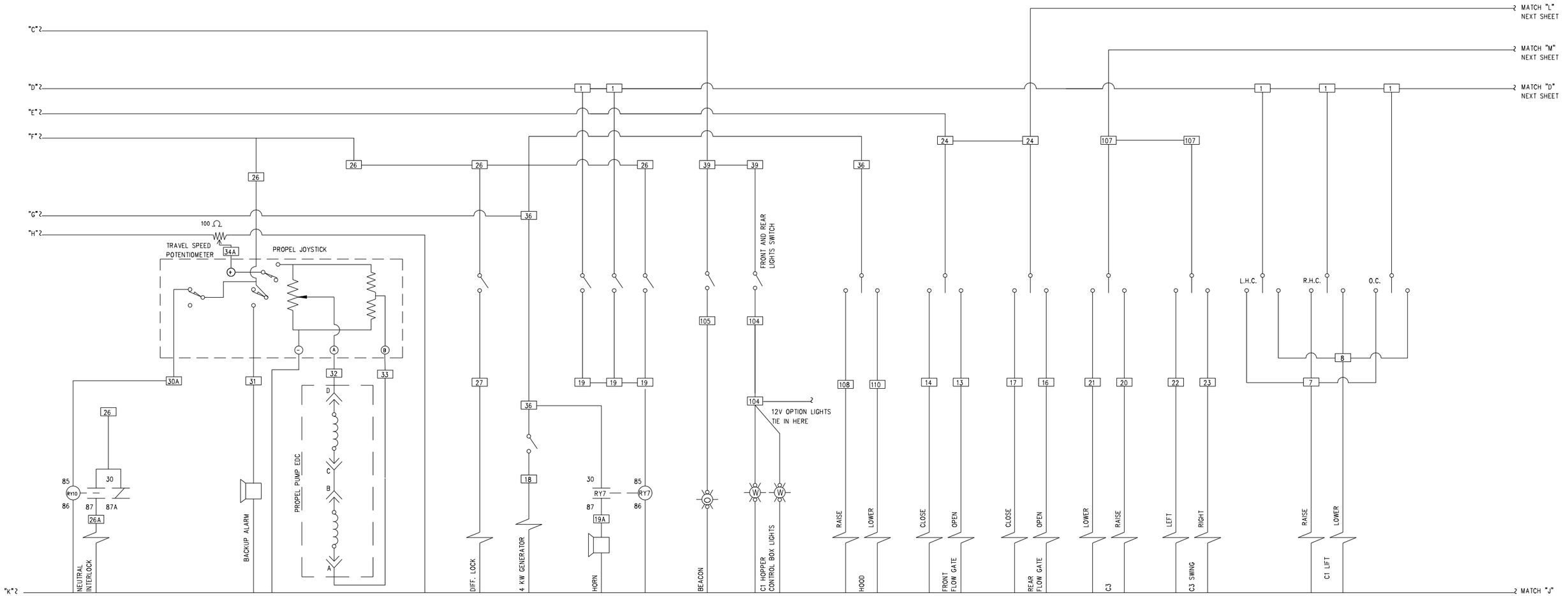

all fractional dim's 1/32" - all decimal dim's .005 unless noted

| REV. | SN# | DATE | ISSUES | BY |
|---|---|---|---|---|
| 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) | | |
| SCALE 1=1 | DATE 9-21-09 | DWG NO 230667-01 | REV. C |



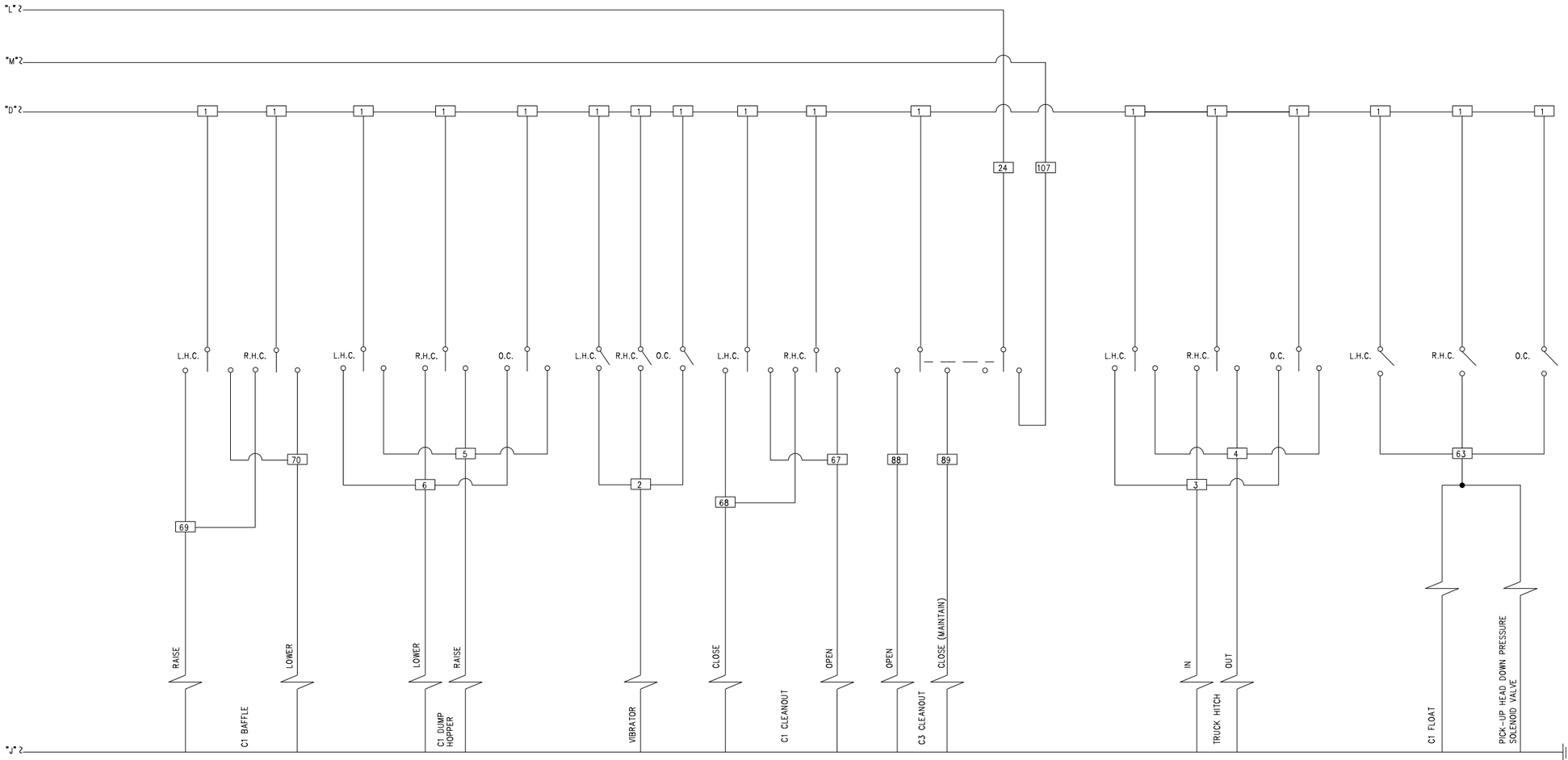

all fractional dim's 1/32" - all decimal dim's .005 unless noted

| REV. | SN# | DATE | ISSUES | BY |
|---|---|---|---|---|
| B | | | SEE SHEET 1 | |

ROADTEC

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

| 1 REQ'D PER | SB1500D SB2500D | SHEET NO | FAB CODE | EFFECTIVE S/N |
|---|---|---|---|---|
| | | 4 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 | | | |




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

| REV. | SN# | DATE | ISSUES | BY |
|---|---|---|---|---|
| B | | | SEE SHEET 1 | |

ROADTEC

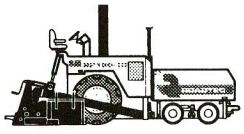
PART NAME: ELECTRICAL SCHEMATIC SB-2500D/1500D - CAT ENG

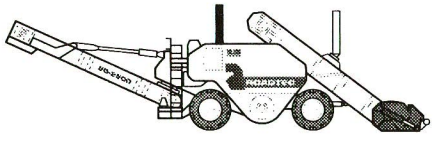
| 1 REQ'D PER | SB1500D SB2500D | SHEET NO | FAB CODE | EFFECTIVE S/N |
|---|---|---|---|---|
| DRAWN BY: KDM | TOTAL WT. (LBS) | 5 OF 5 | 603 | SEE SHEET 1 |
| SCALE: 1=1 | DATE: 9-21-09 | DWG NO: 230667-01 | | REV: C |

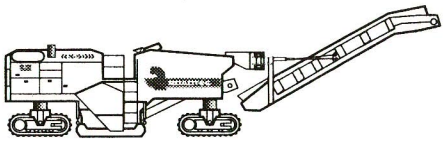
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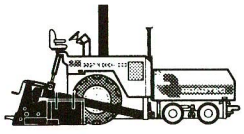
800 MANUFACTURERS ROAD • CHATTANOOGA, TN 37405 • TELEPHONE 423-265-0600 • FAX 423-267-7104

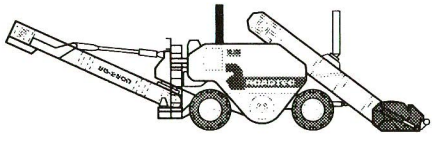
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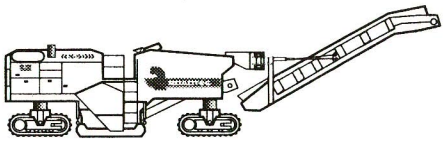
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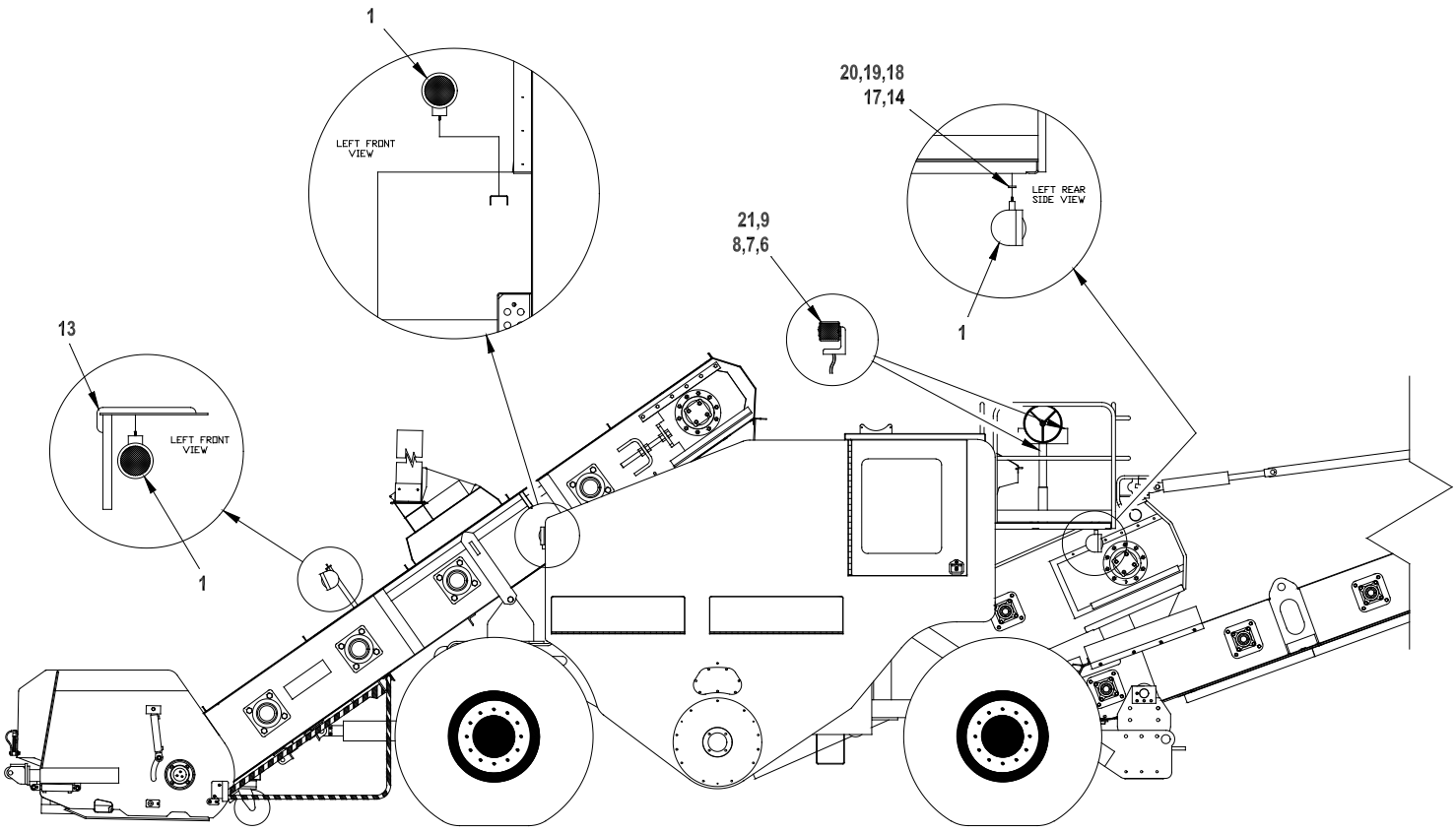
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# SECTION 7 : OPTIONAL EQUIPMENT


| ASSEMBLY | PART NO. | S/N | PAGE NO. |
|---|---|---|---|
| 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 |

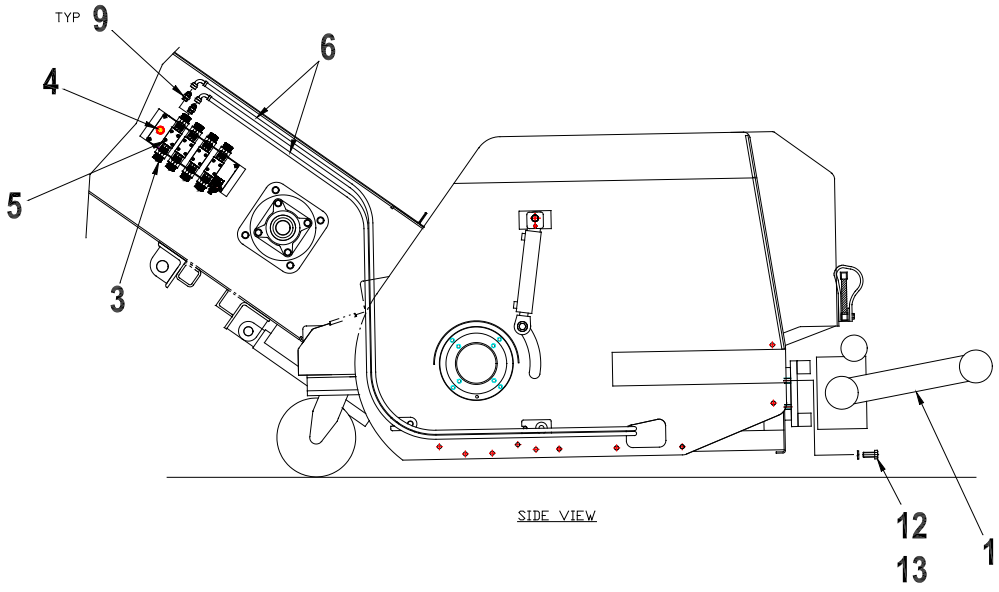
# 12 VDC. WORKING LIGHTS OPTION
# ( 201880-01 )



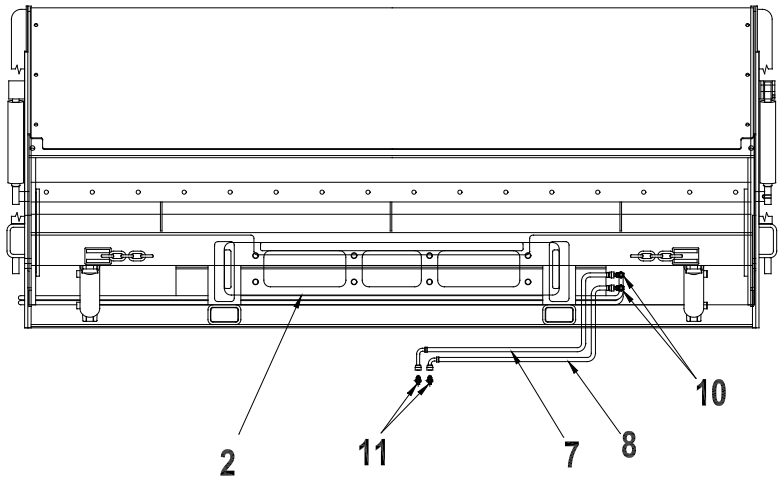
# 12 VDC. WORKING LIGHTS OPTION
# ( 201880-01 )

| 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 )

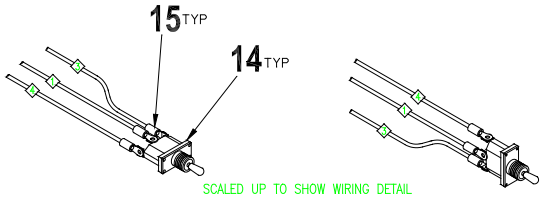



SIDE VIEW

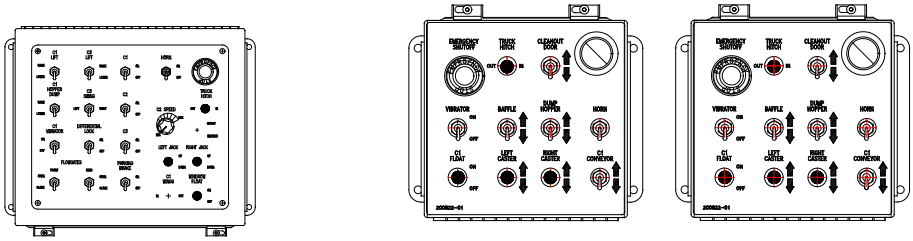



FRONT VIEW
TRUCK HITCH NOT SHOWN

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

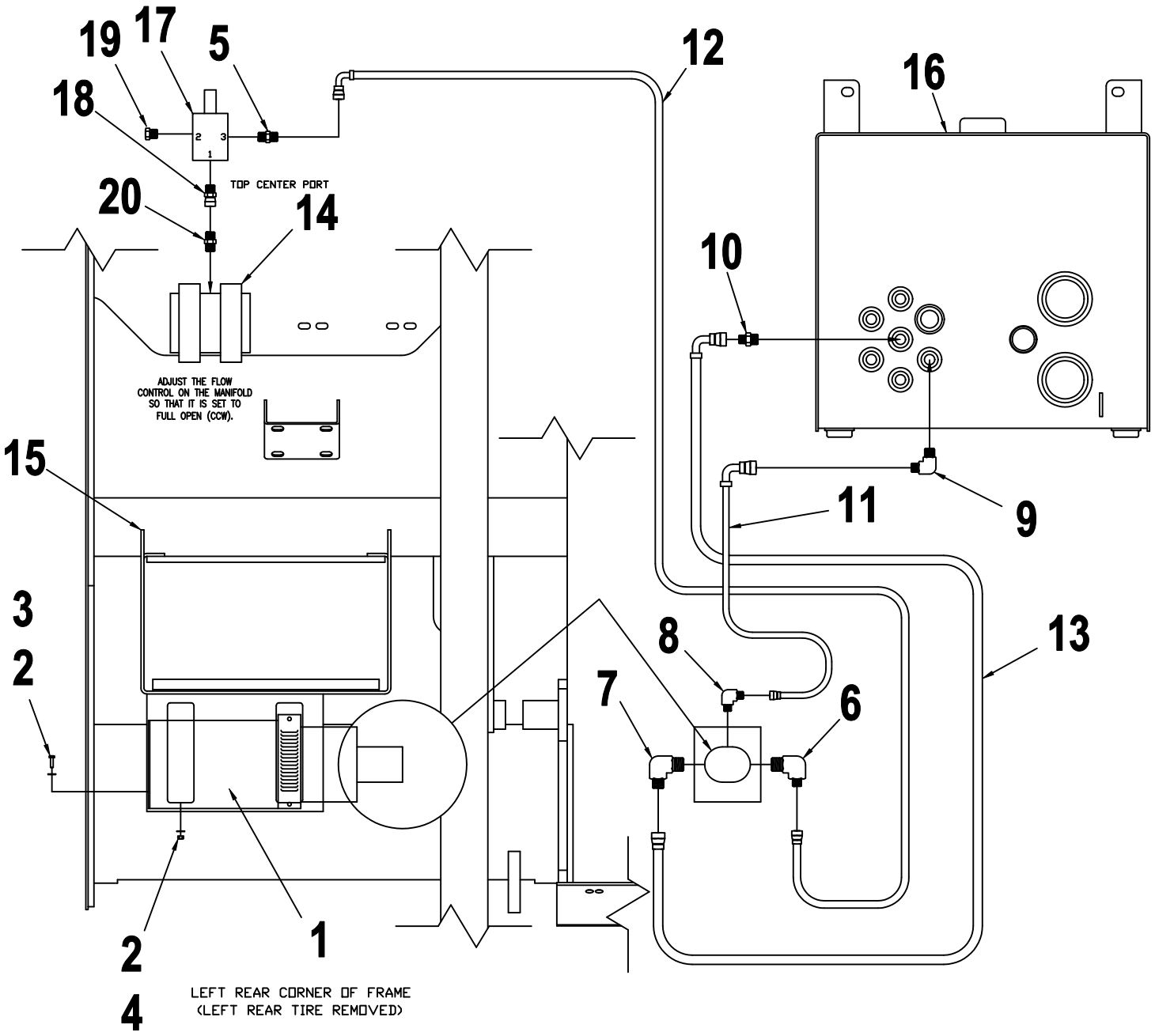
RIGHT HAND HOPPER CONTROL BOX

# TRUCK HITCH OPTION
# ( 201853-01 )

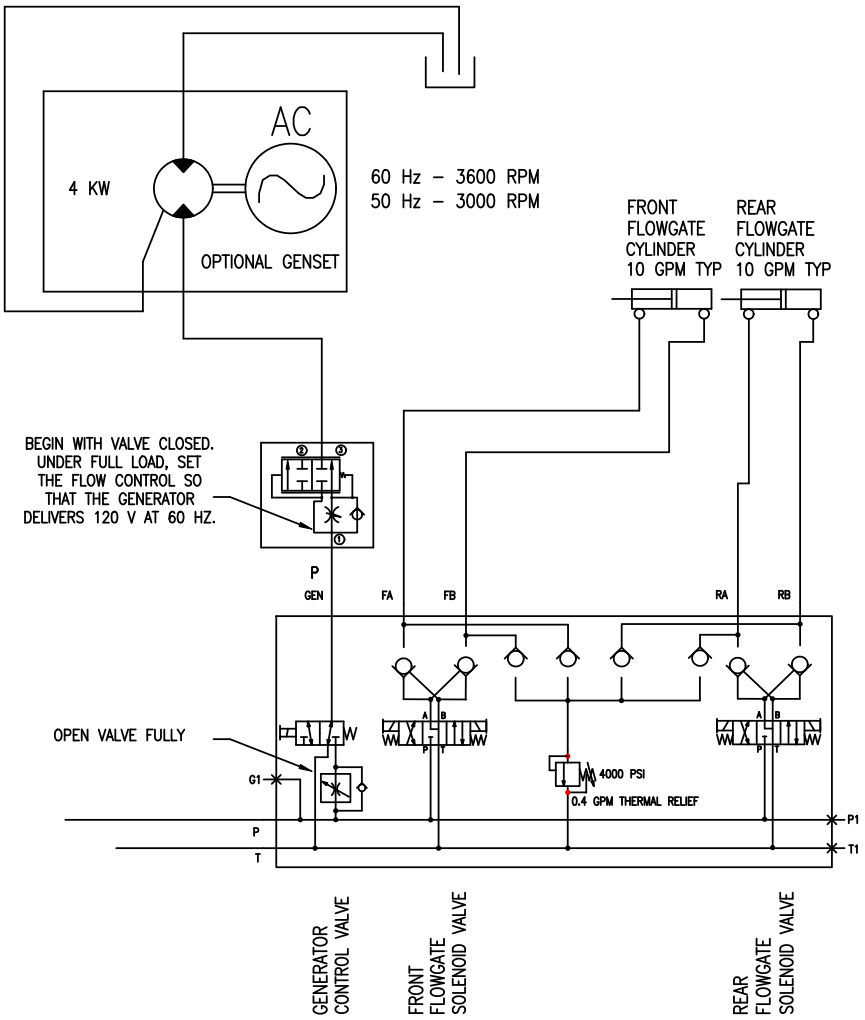
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 29E85 | TRUCK HITCH | 1 |
| **2** | 201811-01 | TRUCK HITCH MOUNTING PLATE | 1 |
| **3** | 143972-C12 | VALVE - D03 MOTOR SPOOL | 1 |
| **4** | 143972-C19 | PRESSURE REDUCING VALVE | 1 |
| **5** | 148745-04 | SCREW - # 10-24 X 2 CAP | 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 )

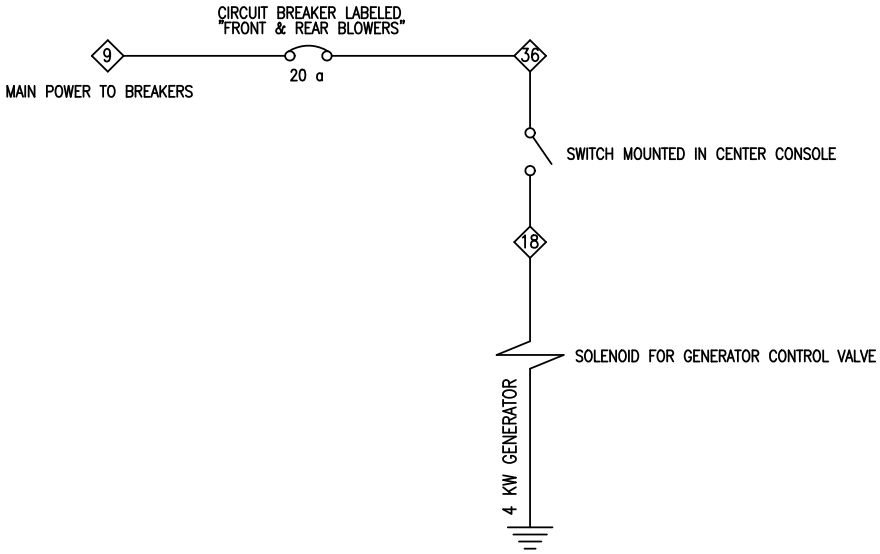
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# 4kw-120V. GENERATOR ASSEMBLY
# ( 216355-01 )




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:

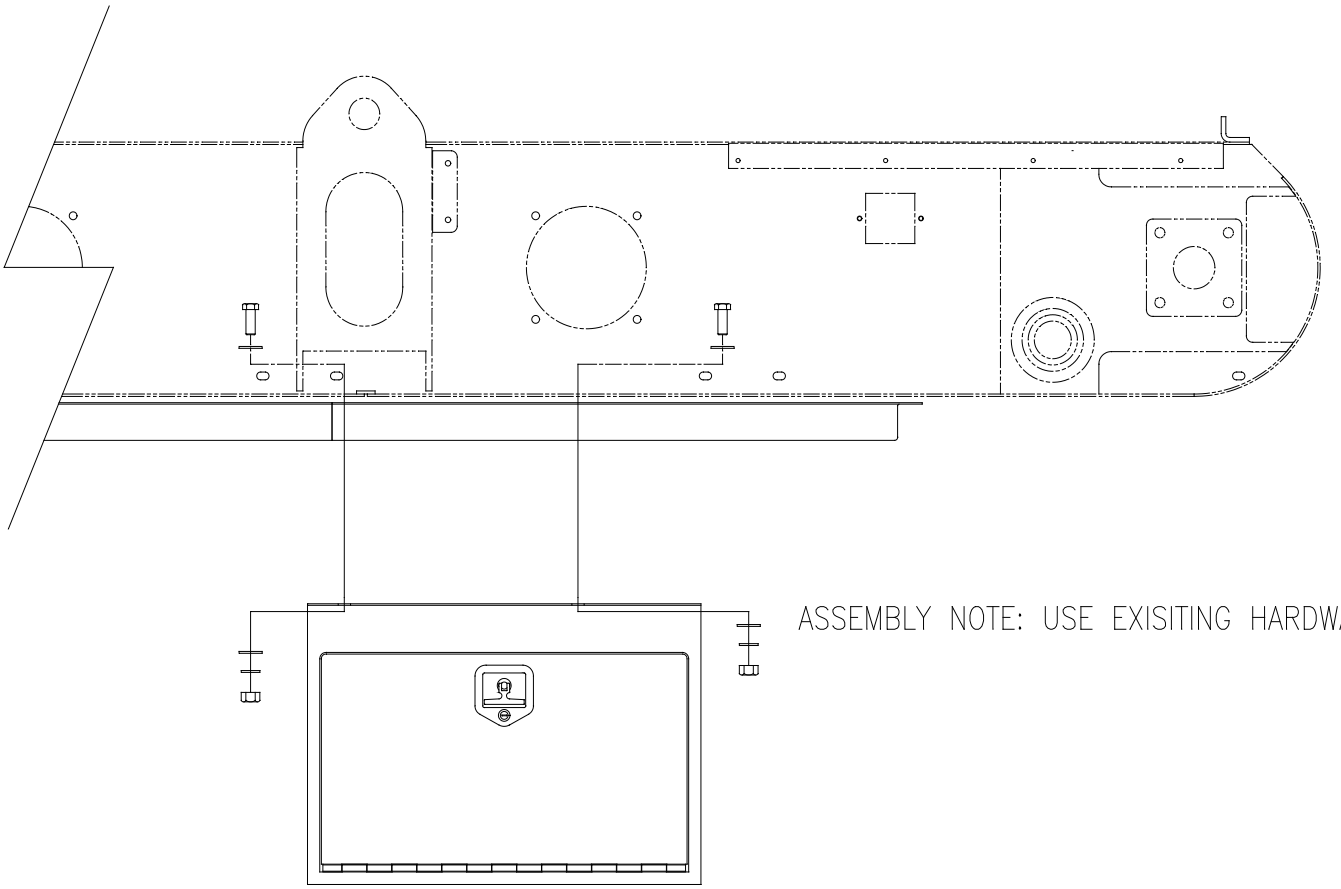
| | 3/8 CONDUIT | BLACK WIRE | WHITE WIRE | GREEN WIRE |
|---|---|---|---|---|
| FRONT TO BACK - RIGHT SIDE | 264” | 276” | 276” | 276” |
| RIGHT SIDE TO GENERATOR SET | 144” | 156” | 156” | 156” |
| FRONT TO BACK - LEFT SIDE | 252” | 264” | 264” | 264” |
| LEFT SIDE TO GENERATOR SET | 20” | 32” | 32”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

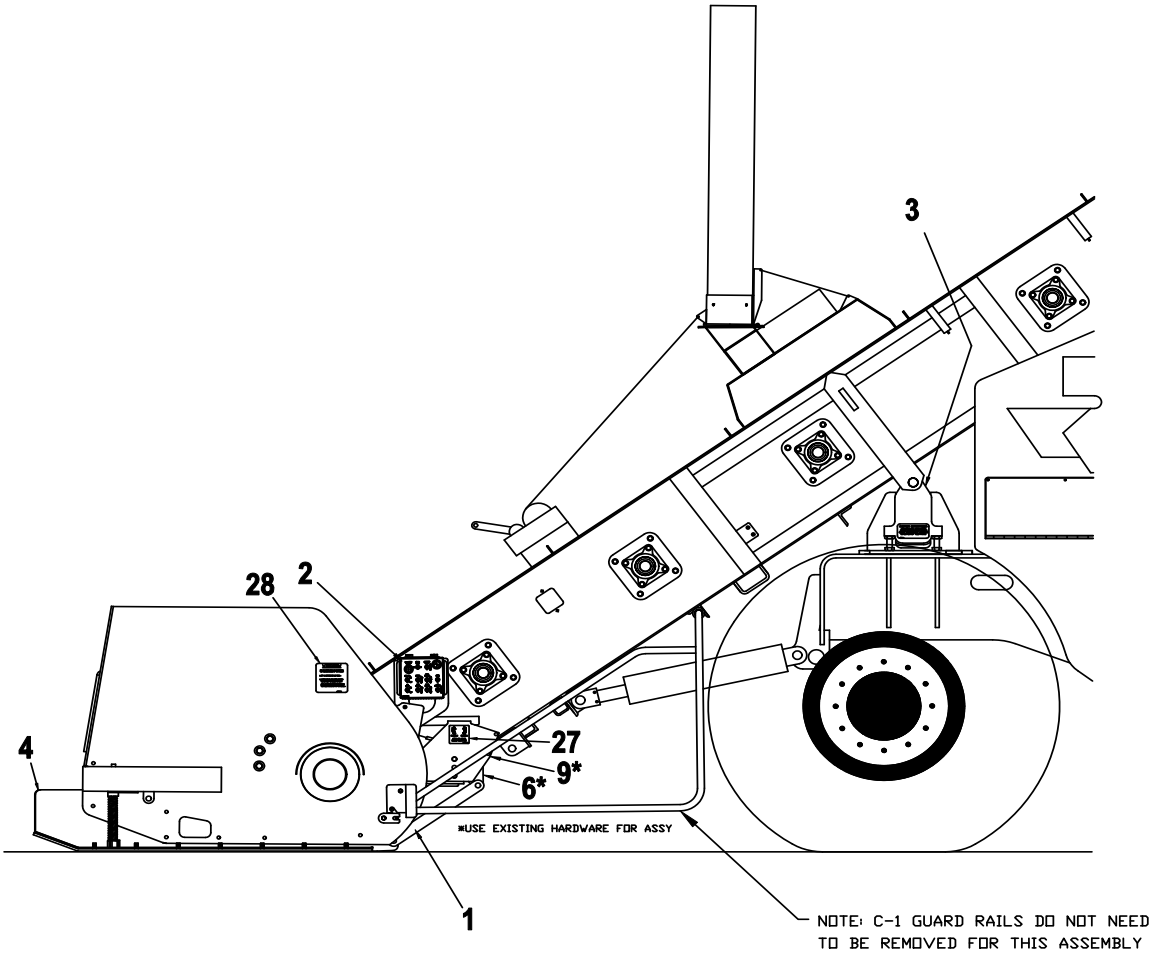


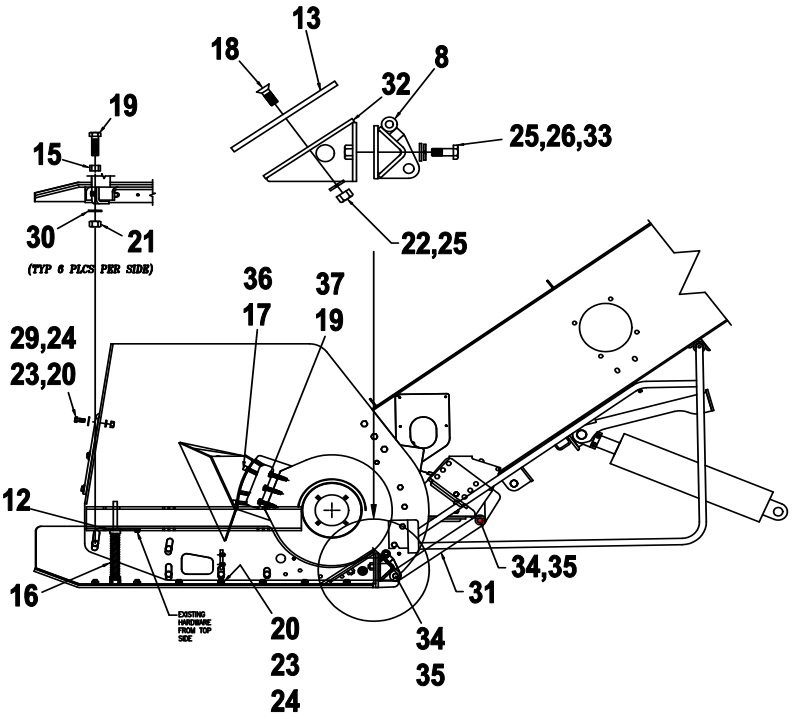
ASSEMBLY NOTE: USE EXISITING HARDWARE

| 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 |

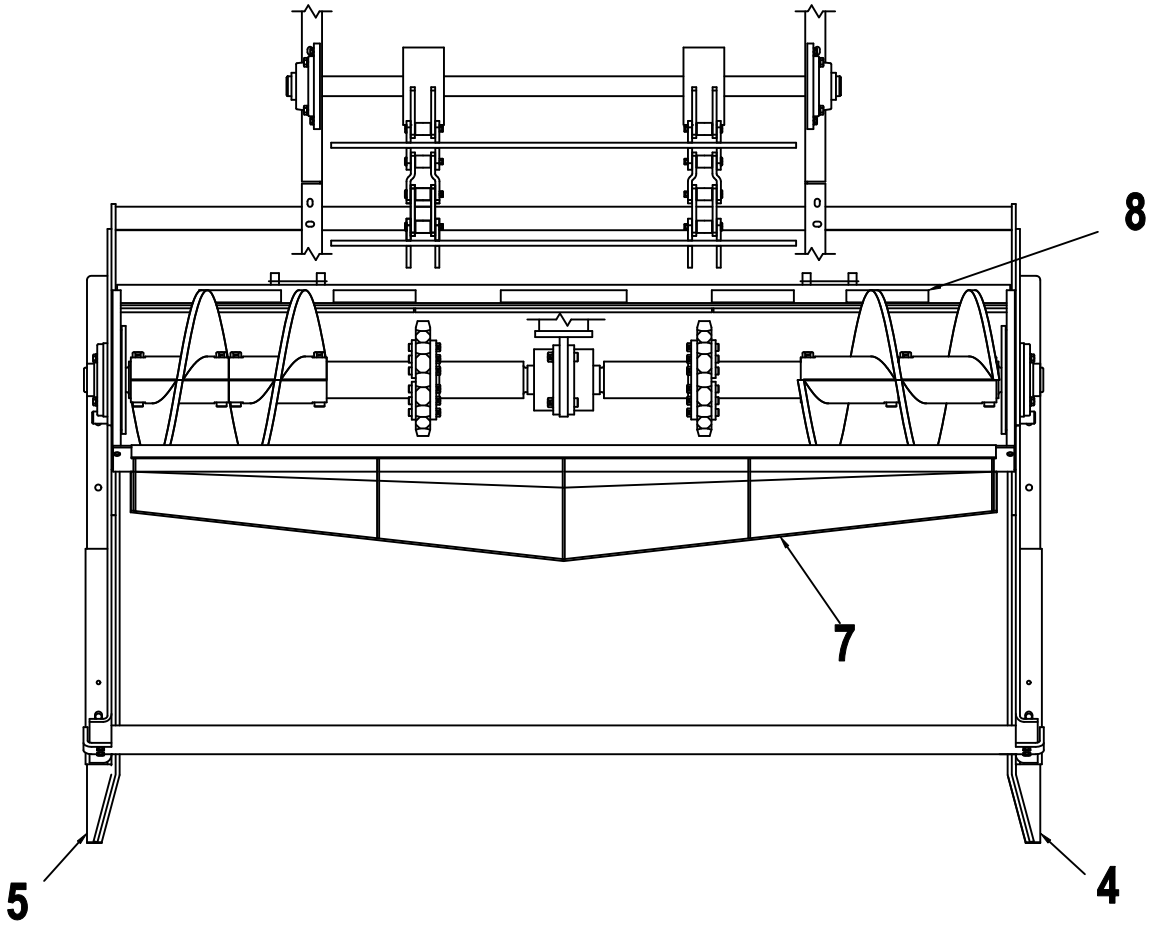
# SB-2500C WINDROW OPTION ASSY.
# ( 212471-01 )

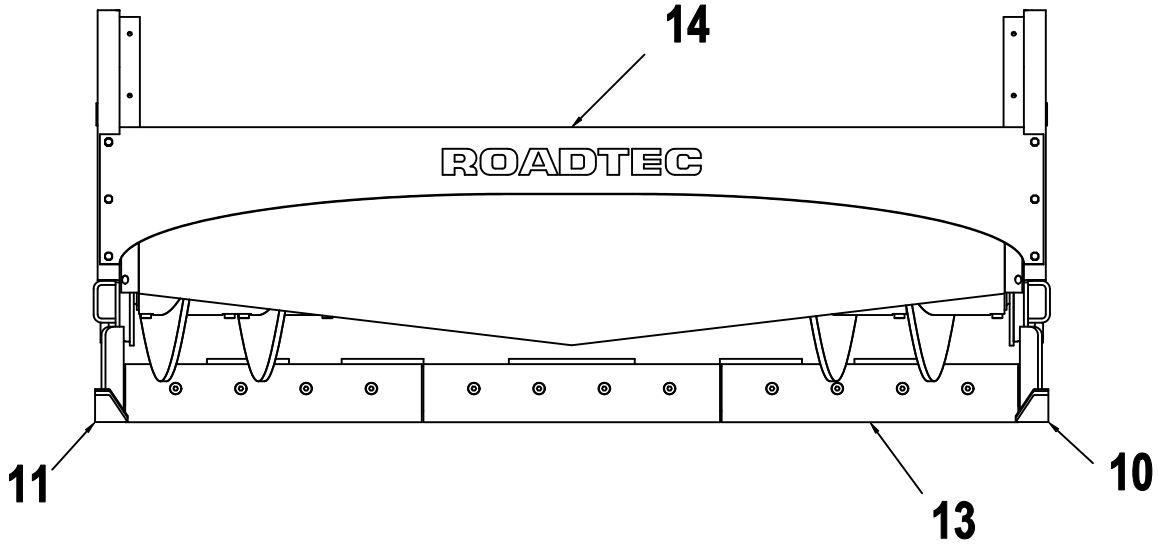
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# SB-2500C WINDROW OPTION ASSY.
# ( 212471-01 )

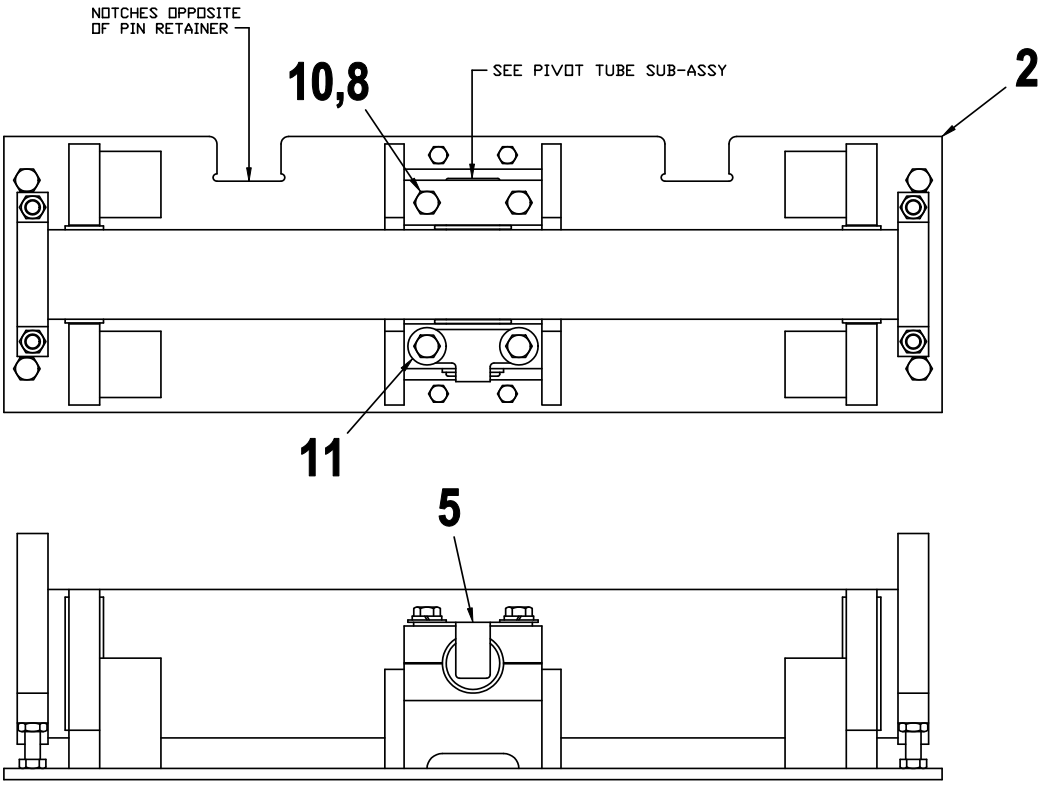


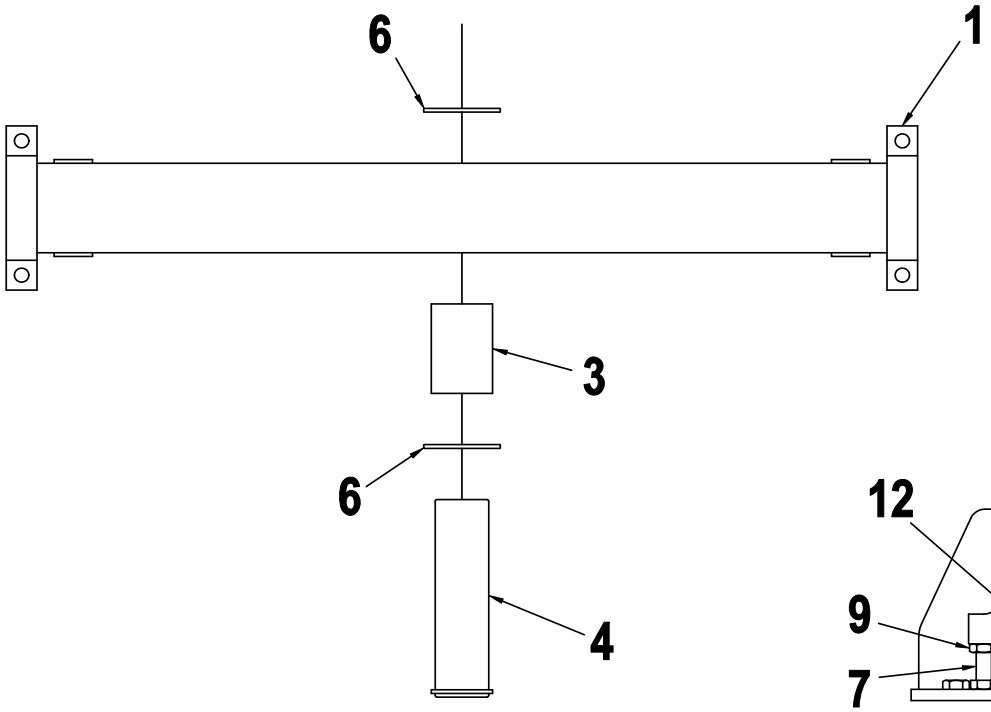



# SB-2500C WINDROW OPTION ASSEMBLY
# ( 212471-01 )

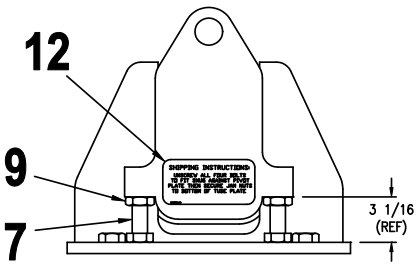
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 212043-01 | WINDROW HYD. ASSY. | 1 |
| **2** | 203236-01 | WINDROW ELECTRICAL ASSY. | 1 |
| **3** | 200855-01 | WINDROW PIVOT SUB-ASSY. | 1 |
| **4** | 202890-01 | LH SKI WELMENT | 1 |
| **5** | 202889-01 | RH SKI WELDMENT | 1 |
| **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

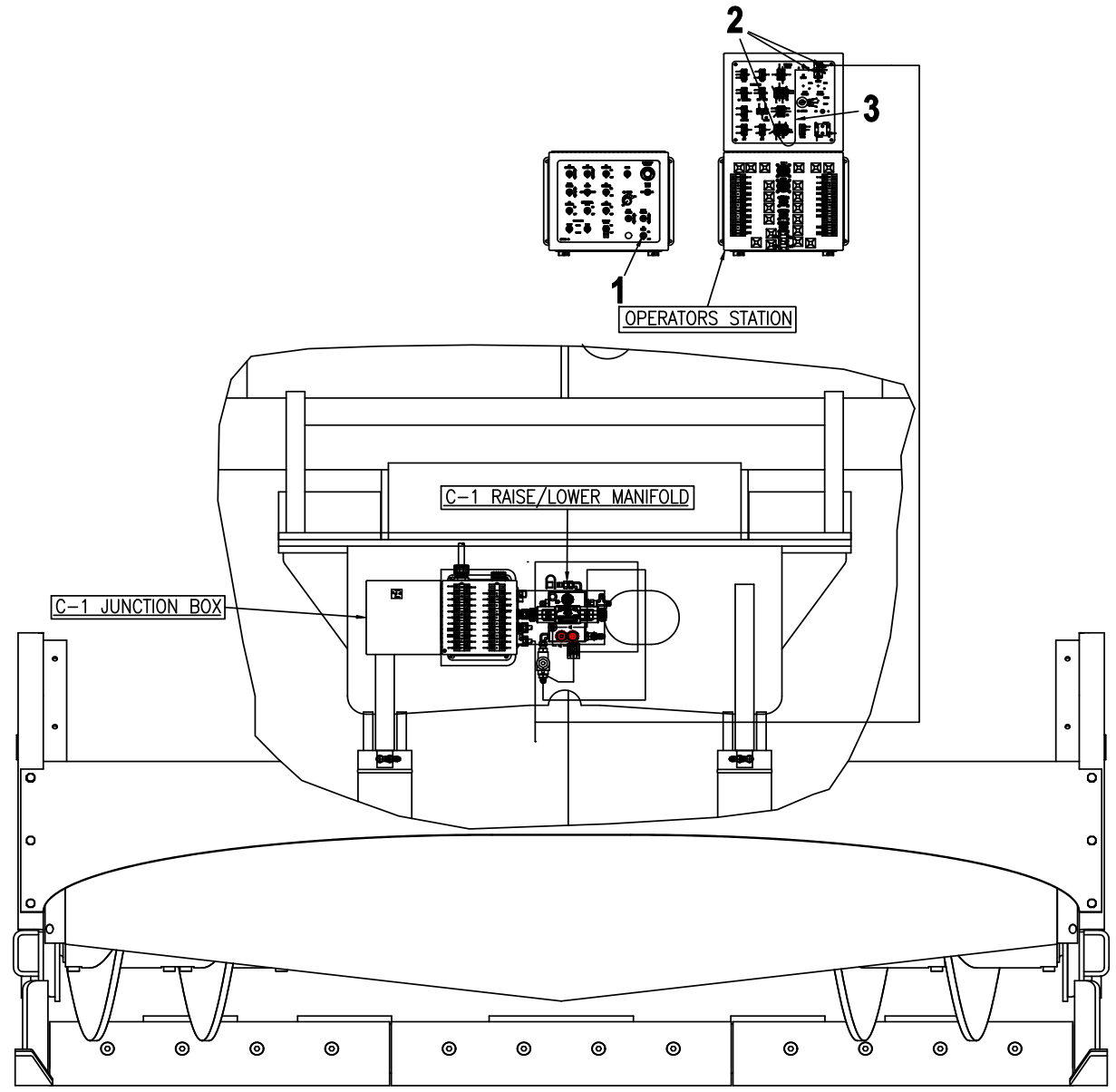


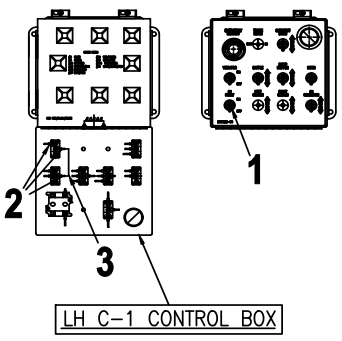

PIVOT TUBE IN LOCKED POSITION

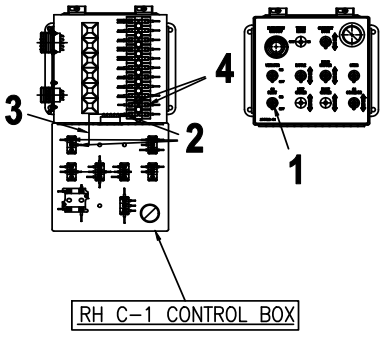
# WINDROW PIVOT ASSY.
# ( 200855-01 )

| 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 )



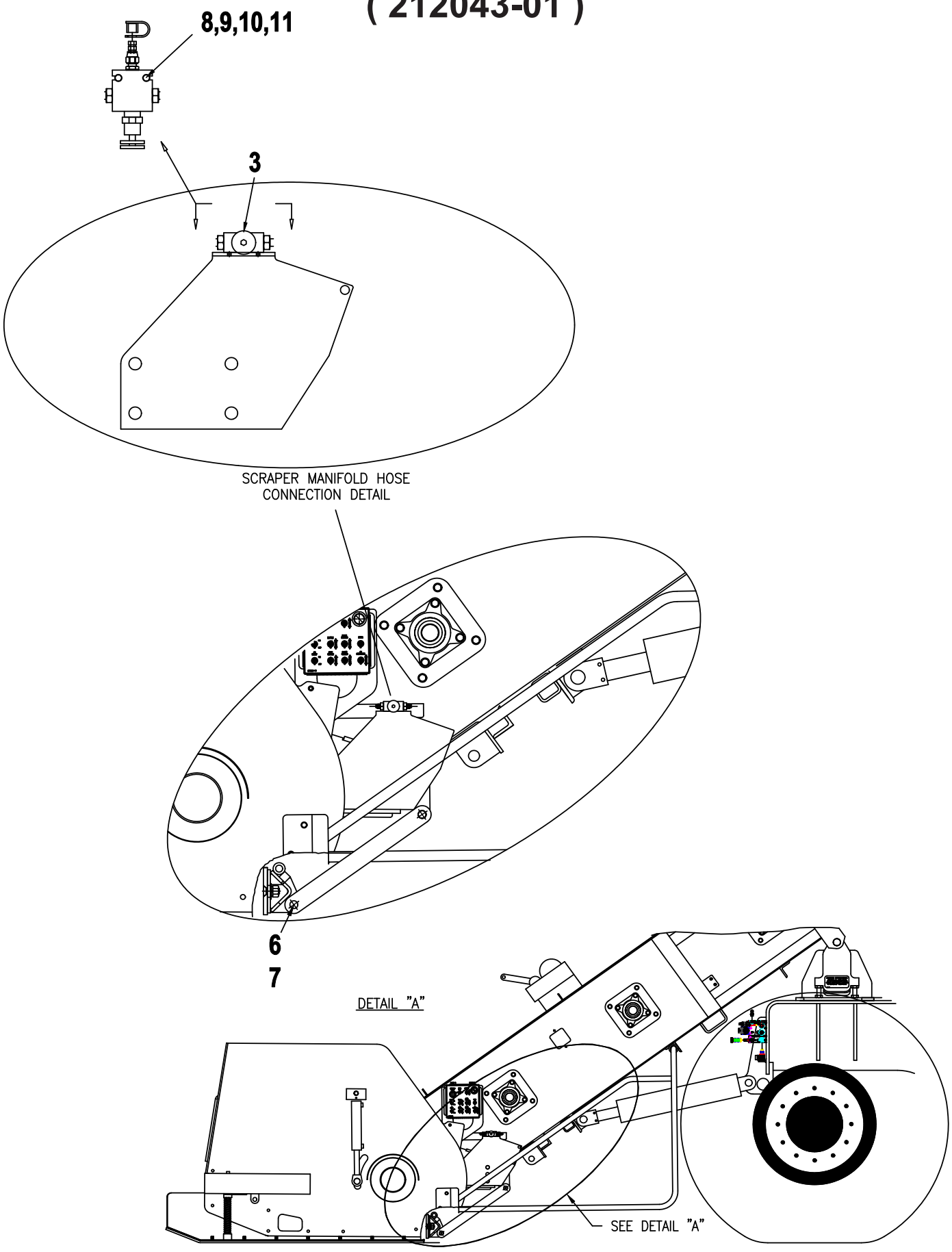



# WINDROW ELECTRICAL ASSY.
# ( 203236-01 )

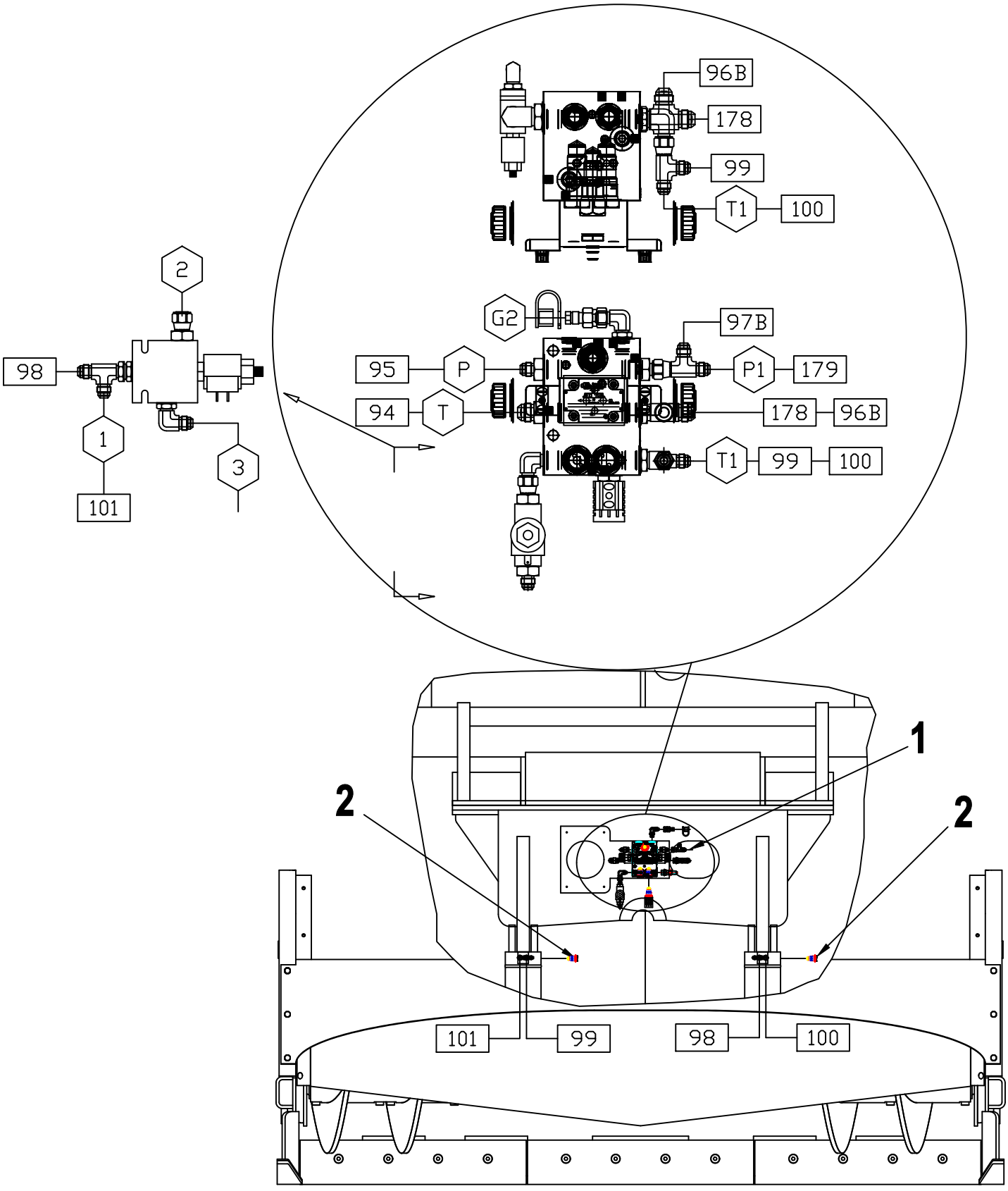
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 13E68 | TOGGLE SWITCH - SP ST ON / OFF | 3 |
| **2** | 93253 | WIRE - TERMINAL RING 16 GA. (# 10) | 9 |
| **3** | 84316-04 | WIRE - 16-2 ALPHA 4" LG | 3 |
| **4** | 28Y52 | ELEC. - TERMINAL FEMALE NON-INSUL. .250 | 2 |

# WINDROW HYDRAULIC ASSY.
# ( 212043-01 )

NEXT PAGE



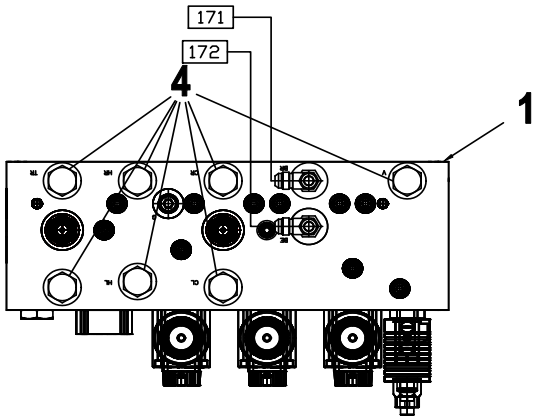
# WINDROW HYDRAULIC ASSY.
# ( 212043-01 )

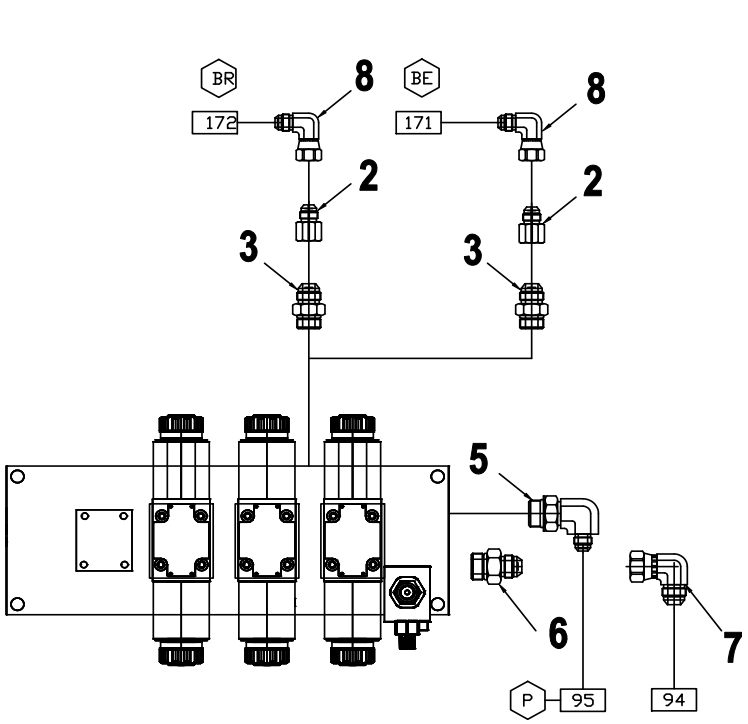


# WINDROW HYDRAULIC ASSY.
# ( 212043-01 )

| 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

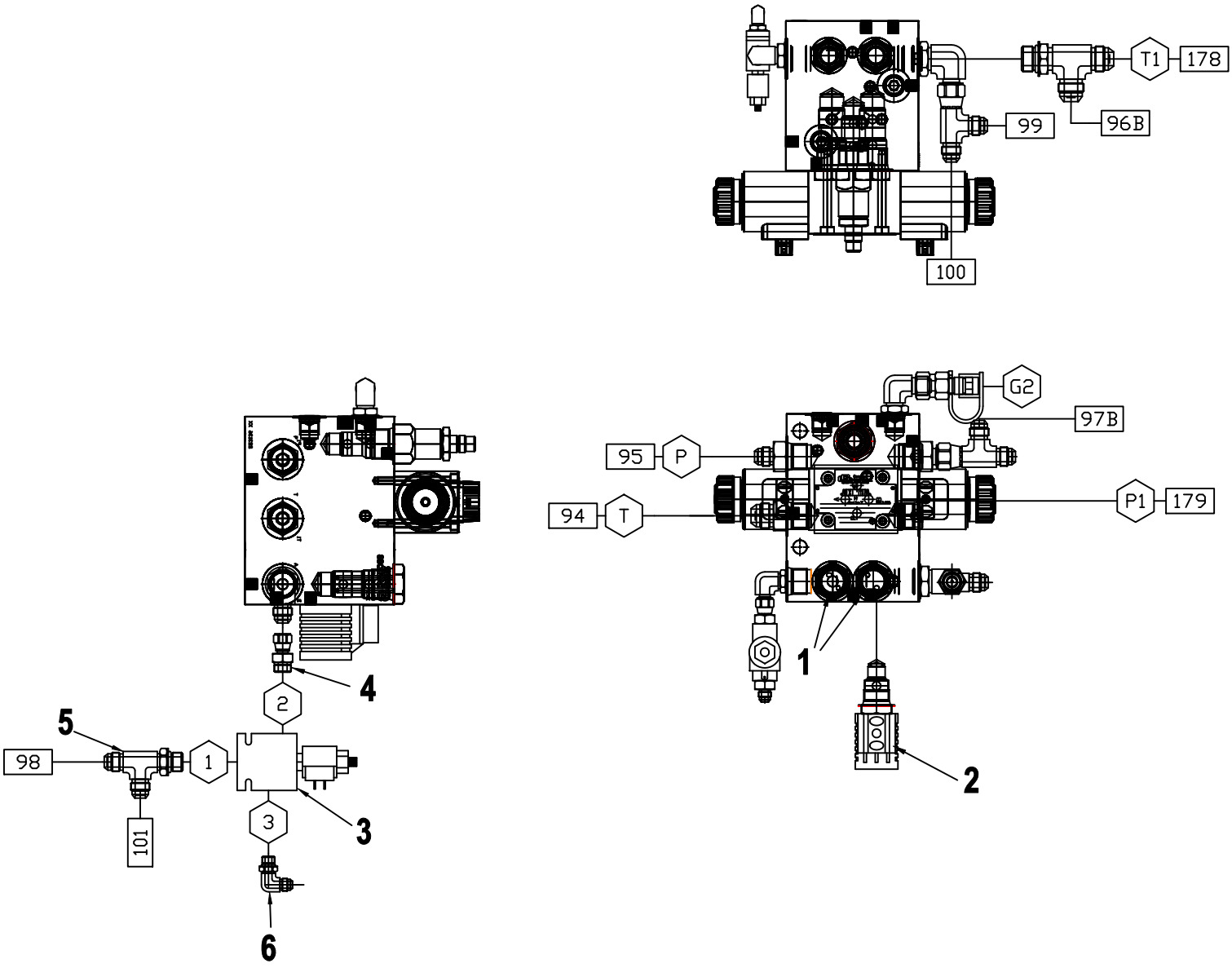
(XX) – MANIFOLD PORT

88
89
90
91
92
93
138
139

PLUG HOSES WITH ITEM #9

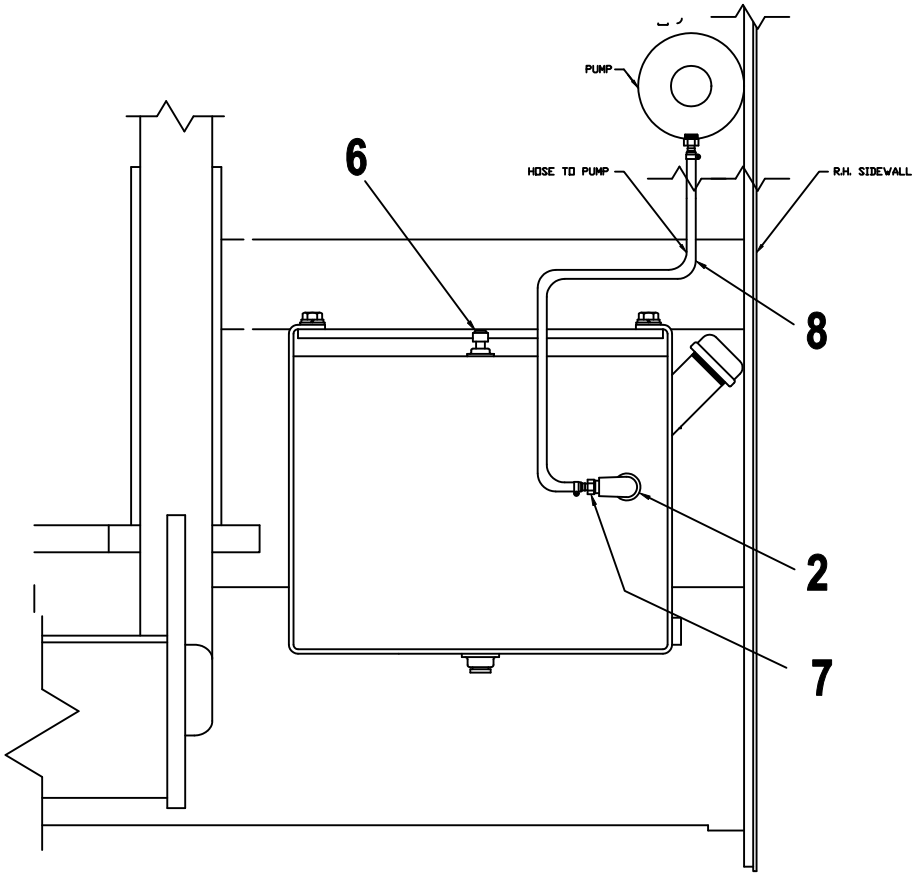
| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 146254-03 | VALVE - C-1 HOPPER CONTROL MANIFOLD | 1 |
| **2** | 135775-04 | FIT - RESISTOR 6 JIC X 1/16 ORIFICE | 2 |
| **3** | 83469-04 | CONNECTOR - 6 JIC X 8 SAE MALE | 2 |
| **4** | 83767-04 | FIT - PLUG 8 SAE | 2 |
| **5**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

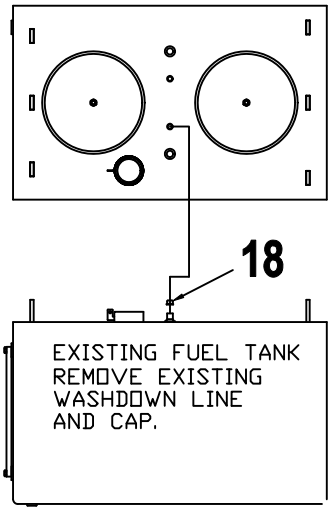
# WINDROW C-1 RAISE/LOWER MANIFOLD ASSY.
# ( 212045-03 )

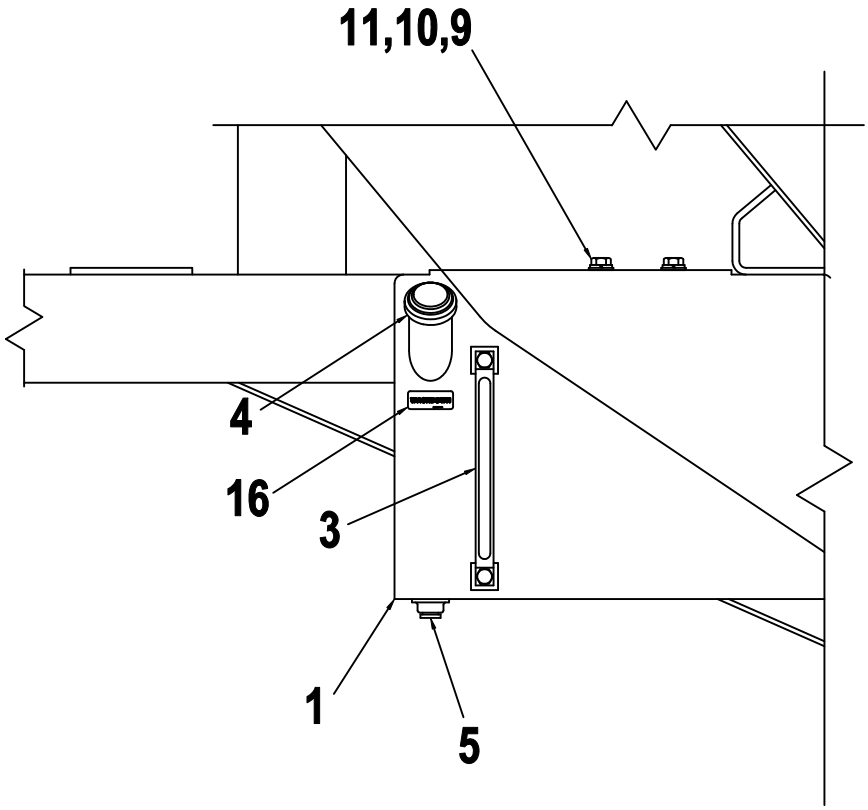



| REF NO. | PART NO. | DESCRIPTION | NO. REQ'D |
|---|---|---|---|
| **1** | 143972-C32 | VALVE - CARTRIDGE PO CHECK | 2 |
| **2** | 143972-C33 | VALVE - CARTRIDGE SOLENOID N/C SPOOL | 1 |
| **3** | 203093-04 | VALVE - SOLENOID 2 POS - 3 WAY | 1 |
| **4** | 135923-04 | FIT - 6 SAE MALE - 6 JIC FEM. SW 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 )



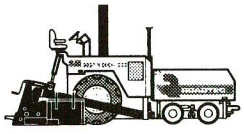
# ENVIRONMENTAL WASHDOWN ASSEMBLY
# ( 217955-01 )

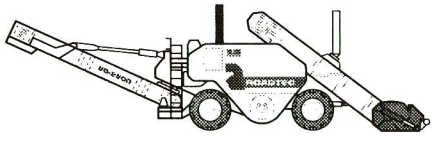
| ITEM # | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| **1** | 200184-01 | WASHDOWN TANK WELDMENT | 1 |
| **2** | 123754 | REDUCER - 3/4" NPT X 3/8" NPT FM 90 DEG. | 1 |
| **3** | 97412-04 | GAUGE - 12" LIQUID LEVEL CHANNEL | 1 |
| **4** | 90332 | PLUMB - 2" NPT PIPE CAP | 1 |
| **5** | 142610-04 | 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 |

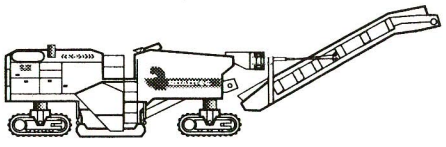
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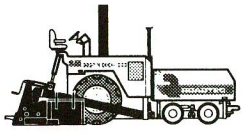
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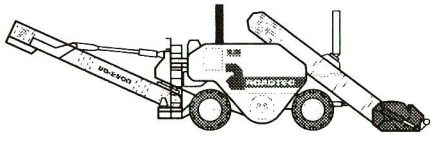
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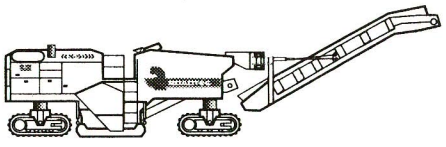
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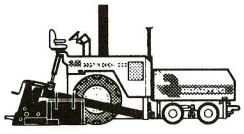
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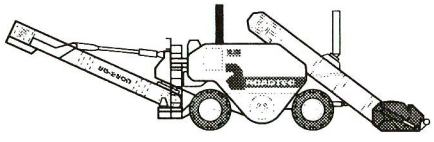
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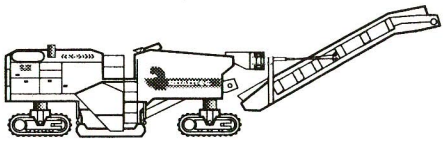
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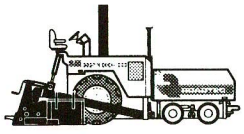
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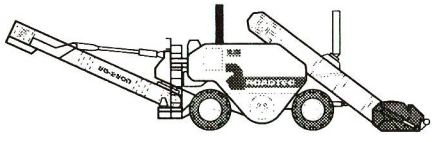
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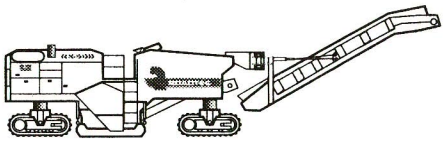
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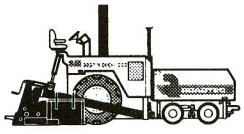
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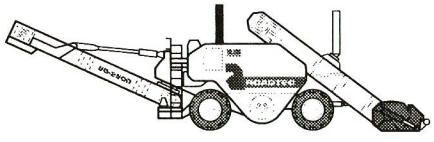
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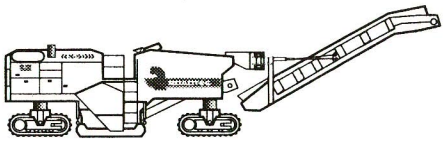
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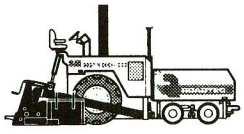
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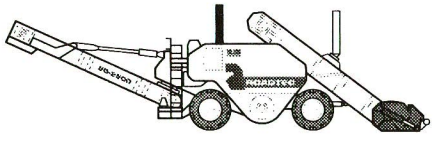
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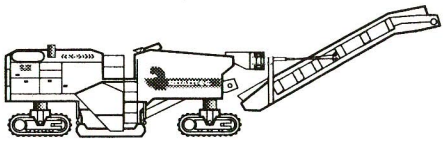
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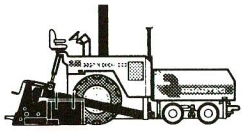
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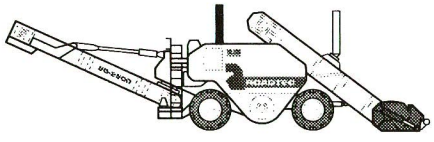
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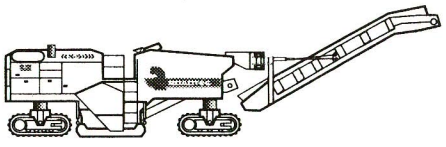
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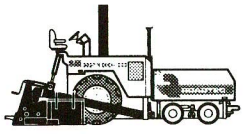
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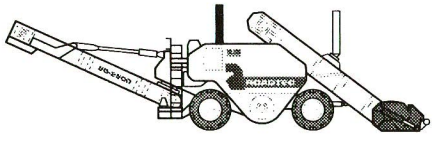
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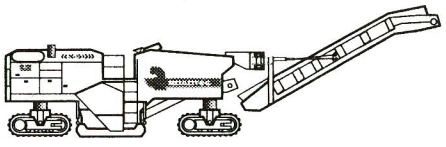
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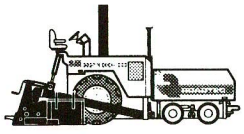
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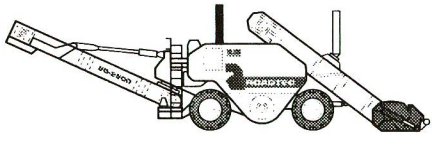
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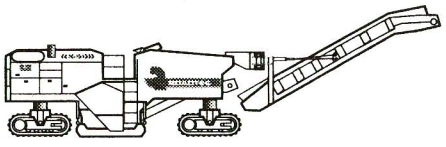
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