



# B20C-X-V08

## PARTS

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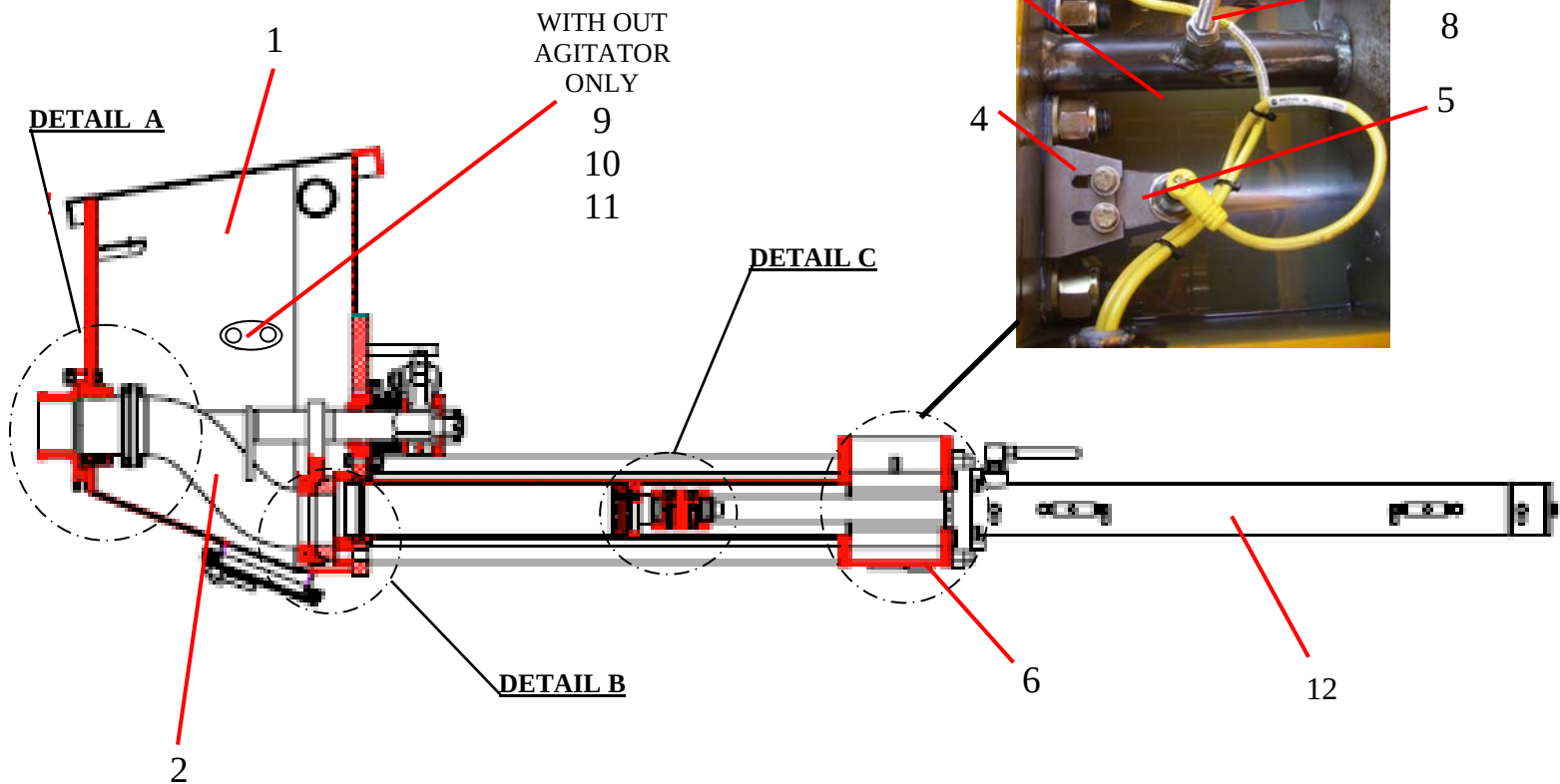
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## WATERBOX TOP VIEW

## PUMPING TRAIN ASSEMBLY



| ID # | PART #  | PART DESCRIPTION                    | QUANTITY |    |
|------|---------|-------------------------------------|----------|----|
|      | 87894-2 | STD SHIFT PUMPING TRAIN ASSEMBLY    | 1        | EA |
| 1    | 86803A  | HOPPER WELD B20 SAFETY              | 1        | EA |
| 2    | 71349   | S TUBE WLD, 4X4                     | 1        | EA |
| 3    | 88172   | FLUSH BOX WELDMENT, B20/B20HP       | 1        | EA |
| 4    | 88180   | BKT-PROX SENSOR, FLUSH BOX          | 2        | EA |
| 5    | 88179   | BRACKET PROXIMITY SWITCH MOUNT      | 2        | EA |
| 6    | 10282   | PLUGS-PIPE GALV 1"                  | 1        | EA |
| 7    | 86665   | STUD, 3/8-16 X3" LONG               | 1        | EA |
| 8    |         | 3/8-16 JAM NUT                      | 1        | EA |
| 9    | 73433   | COVER REMIX (OUTSIDE)               | 1        | EA |
| 10   | 73434   | COVER PLATE (INSIDE)                | 1        | EA |
| 11   | 86623   | SEAL, AGITATOR (INSIDE)             | 1        | EA |
| 12   | 73120   | DRIVE CYLINDER -2.75 X 2.00 X 36.00 | 2        | EA |

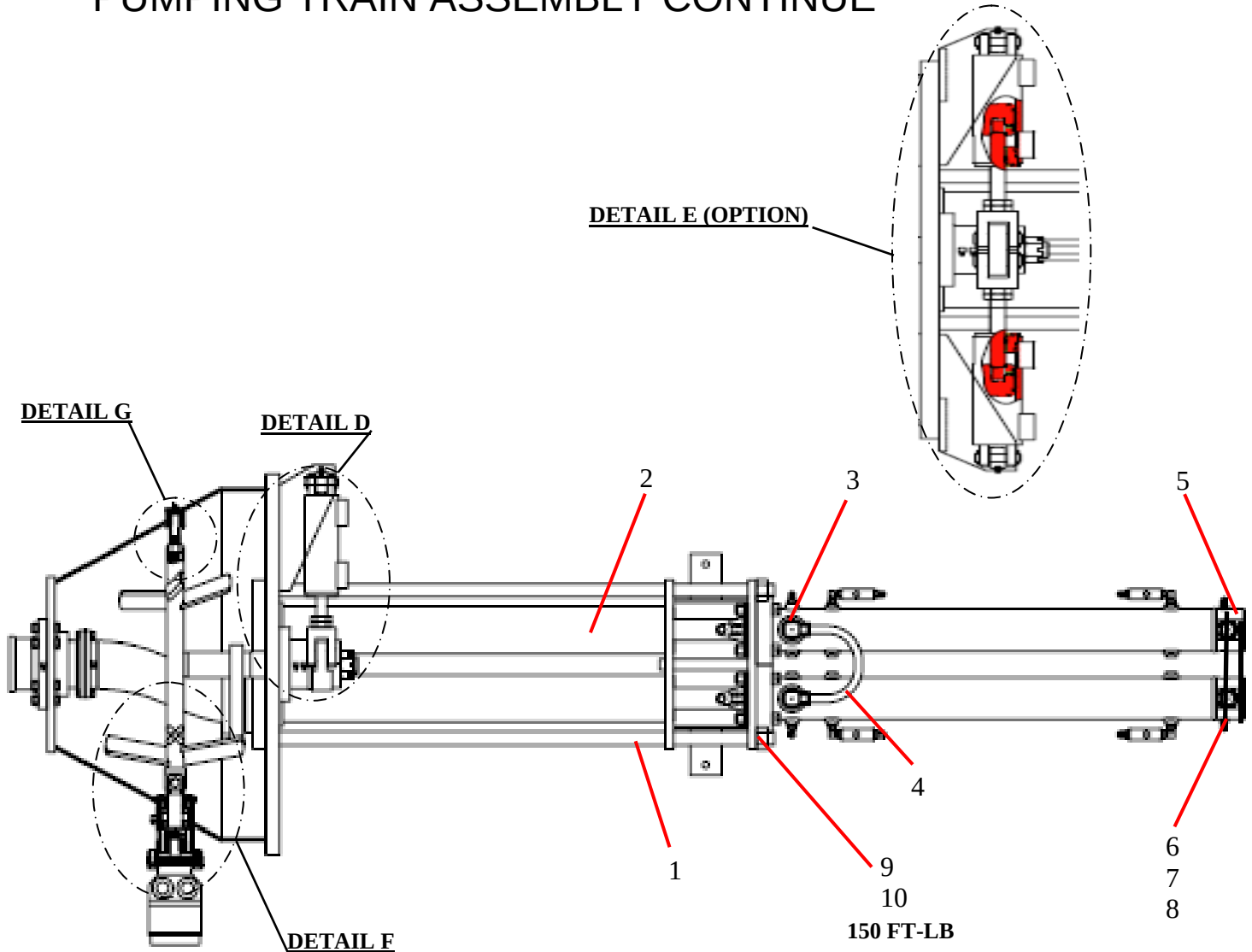


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## PUMPING TRAIN ASSEMBLY CONTINUE



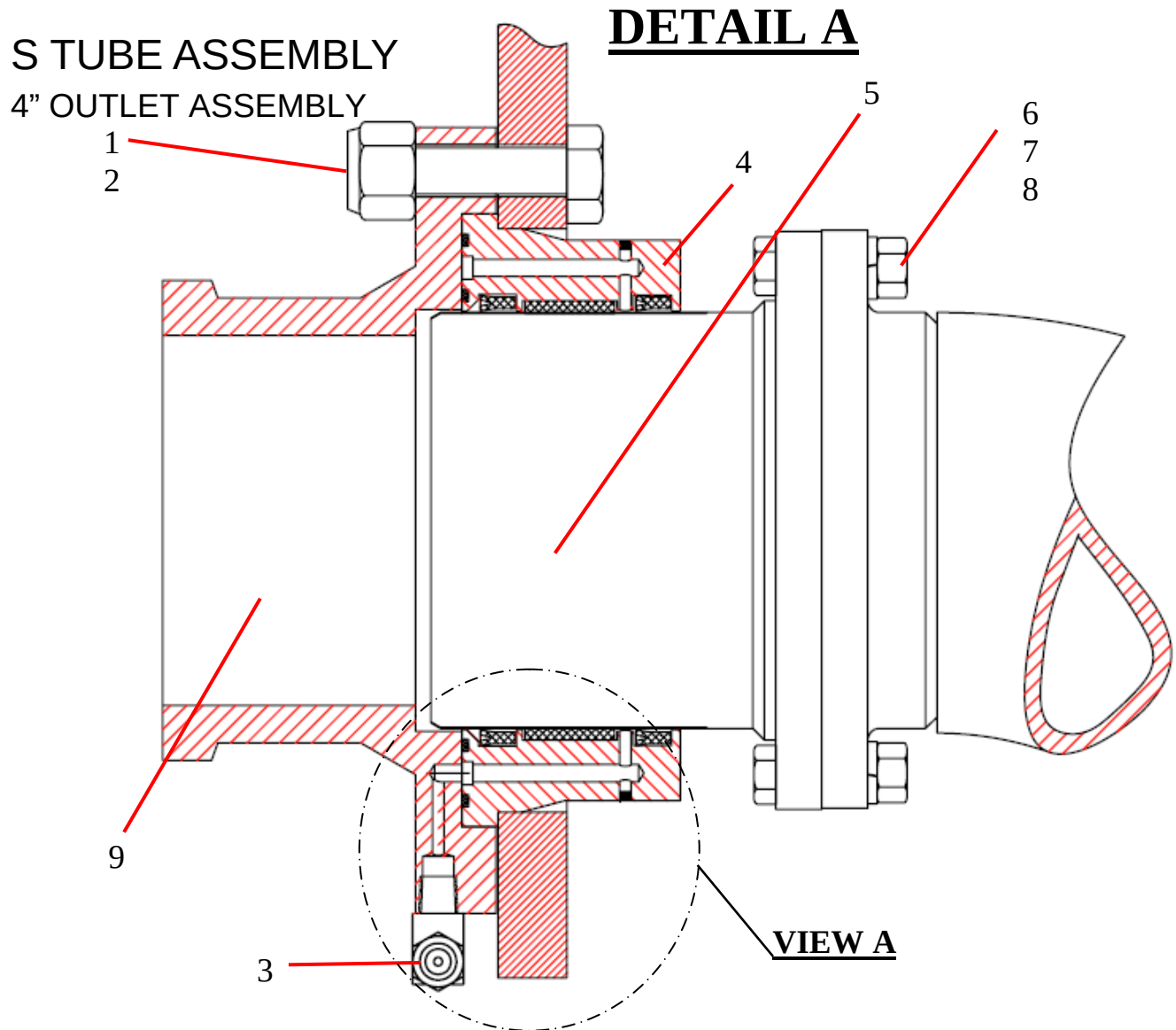
| ID # | PART # | PART DESCRIPTION                | QUANTITY |    |
|------|--------|---------------------------------|----------|----|
| 1    | 70315  | TIE ROD, 1¼" -12 X 48½"         | 4        | EA |
| 2    | 71232  | CONCRETE CYLINDER, 4" X 36"     | 2        | EA |
| 3    |        | ELBOW, MB – MJ-16-16            | 2        | EA |
| 4    | 85688  | TUBE, HYD, LOOP LINE            | 1        | EA |
| 5    | 71401  | END PLATE – HYD.CYL,M20 PAINTED | 1        | EA |
| 6    |        | HHCS, ½" – 13X1 ¼" GR           | 4        | EA |
| 7    |        | LOCK WASHER, ½                  | 4        | EA |
| 8    |        | FLATWASHER, ½                   | 4        | EA |
| 9    |        | HEX NUT 1 ¼"- 12                | 4        | EA |
| 10   |        | LOCK WASHER, 1 ¼"               | 4        | EA |



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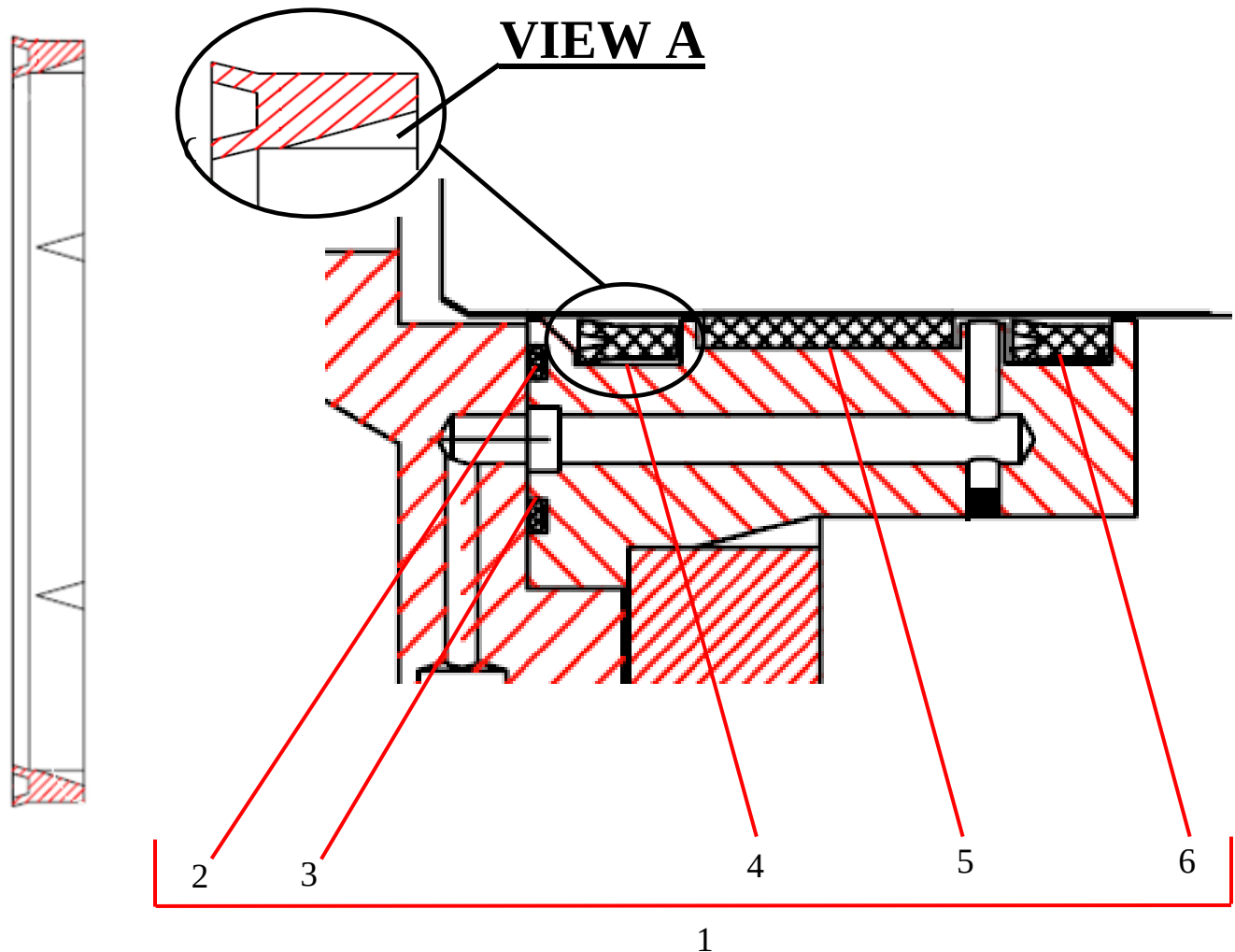
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| ID # | PART # | PART DESCRIPTION             | QUANTITY |    |
|------|--------|------------------------------|----------|----|
| 1    |        | HHCS, 9/16-12 X 2 1/2 GR/8   | 6        | EA |
| 2    |        | LOCK NUT, 9/16 -12           | 6        | EA |
| 3    |        | GREASE FITTING, 1/8" NPT 90° | 2        | EA |
| 4    | 86335  | OUTLET SEAL HOUSING- 4"      | 1        | EA |
| 5    | 71343  | CHROMED OUTLET               | 1        | EA |
| 6    |        | HHCS, 3/8 – 16X1 1/2" GR 8   | 6        | EA |
| 7    |        | HEX NUT, 3/8" - 16           | 6        | EA |
| 8    |        | LOCK WASHER, 3/8"            | 6        | EA |
| 9    | 86336  | OUTLET, 4" (1-PIECE)         | 1        | EA |

## 4"OUTLET SEAL KIT INSTALLATION



| ID # | PART # | PART DESCRIPTION                 | QUANTITY |    |
|------|--------|----------------------------------|----------|----|
| 1    | 86621  | SEAL KIT                         | 1        | EA |
| 2    | 86369  | O-RING-#158 BUNA 90              | 1        | EA |
| 3    | 86370  | O-RING-#163 BUNA 90              | 1        | EA |
| 4    | 86614  | SEAL-MODIFIED- 4 IN OUTLET       | 1        | EA |
| 5    | 86371  | GUIDE BAND - 4.75 OD X 1.00W     | 1        | EA |
| 6    | 86372  | LIP SEAL -4.50 ID X 4.88 OD X.38 | 1        | EA |

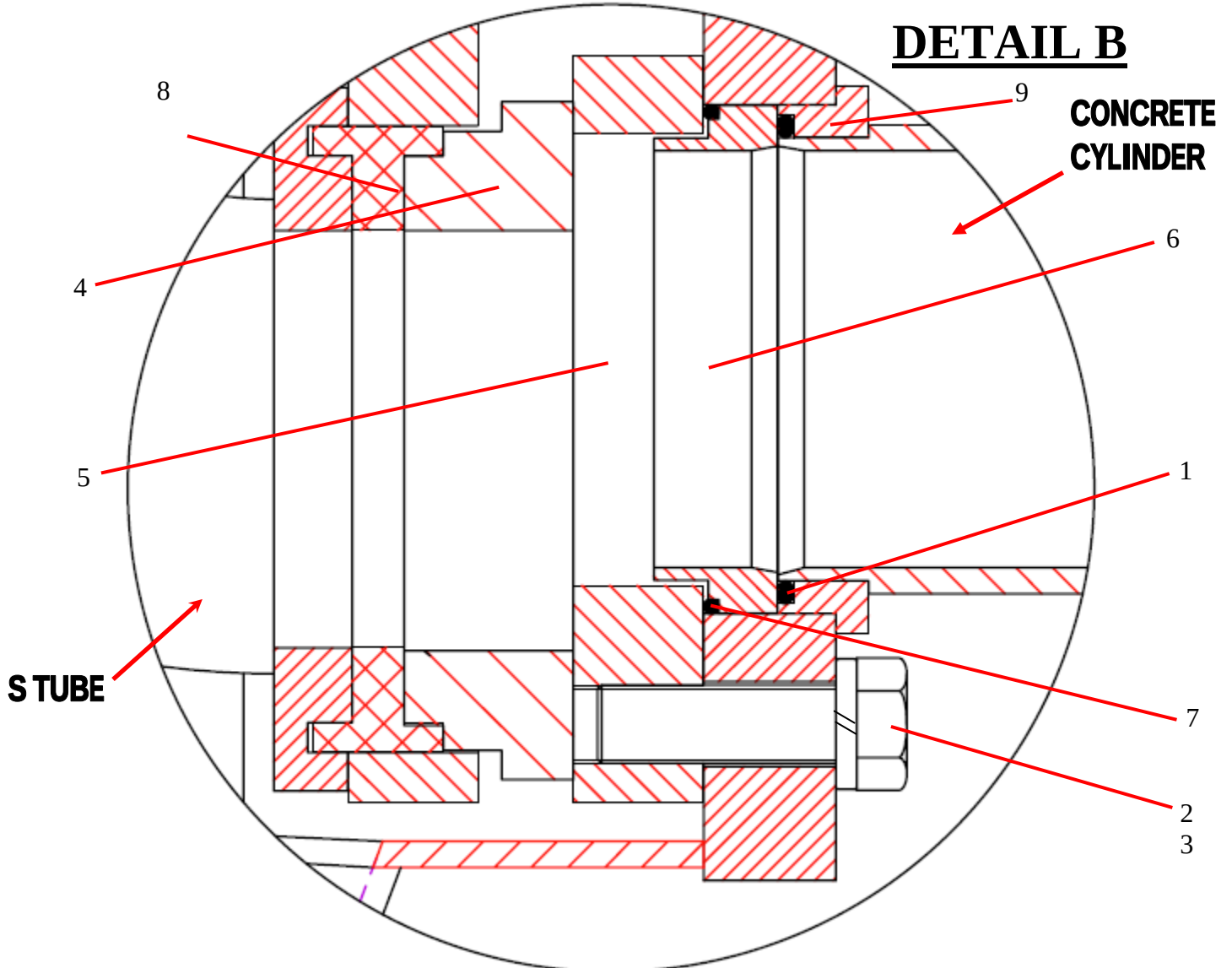


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## WEAR PLATE ASSEMBLY



| ID # | PART # | PART DESCRIPTION                     | QUANTITY |    |
|------|--------|--------------------------------------|----------|----|
| 1    | 71249  | O-RING, #347 BUENA 70                | 2        | EA |
| 2    |        | HHCS, 3/4 - 10X 2 1/2" GR 8          | 5        | EA |
| 3    |        | LOCK WASHER, 3/4"                    | 5        | EA |
| 4    | 72384  | WEAR RING, 4" DOUBLE LIP, 26% CHROME | 1        | EA |
| 5    | 71251  | WEAR PLATE-CAST 4" M20               | 1        | EA |
| 6    | 71254  | ANTI CHIP RING, 4"                   | 2        | EA |
| 7    | 71247  | O-RING FOR CHIP RING                 | 2        | EA |
| 8    | 72285  | SEAL, DOUBLE LIP 4"                  | 1        | EA |
| 9    | 71257  | CONC, CYL. ADAPTER                   | 2        | EA |



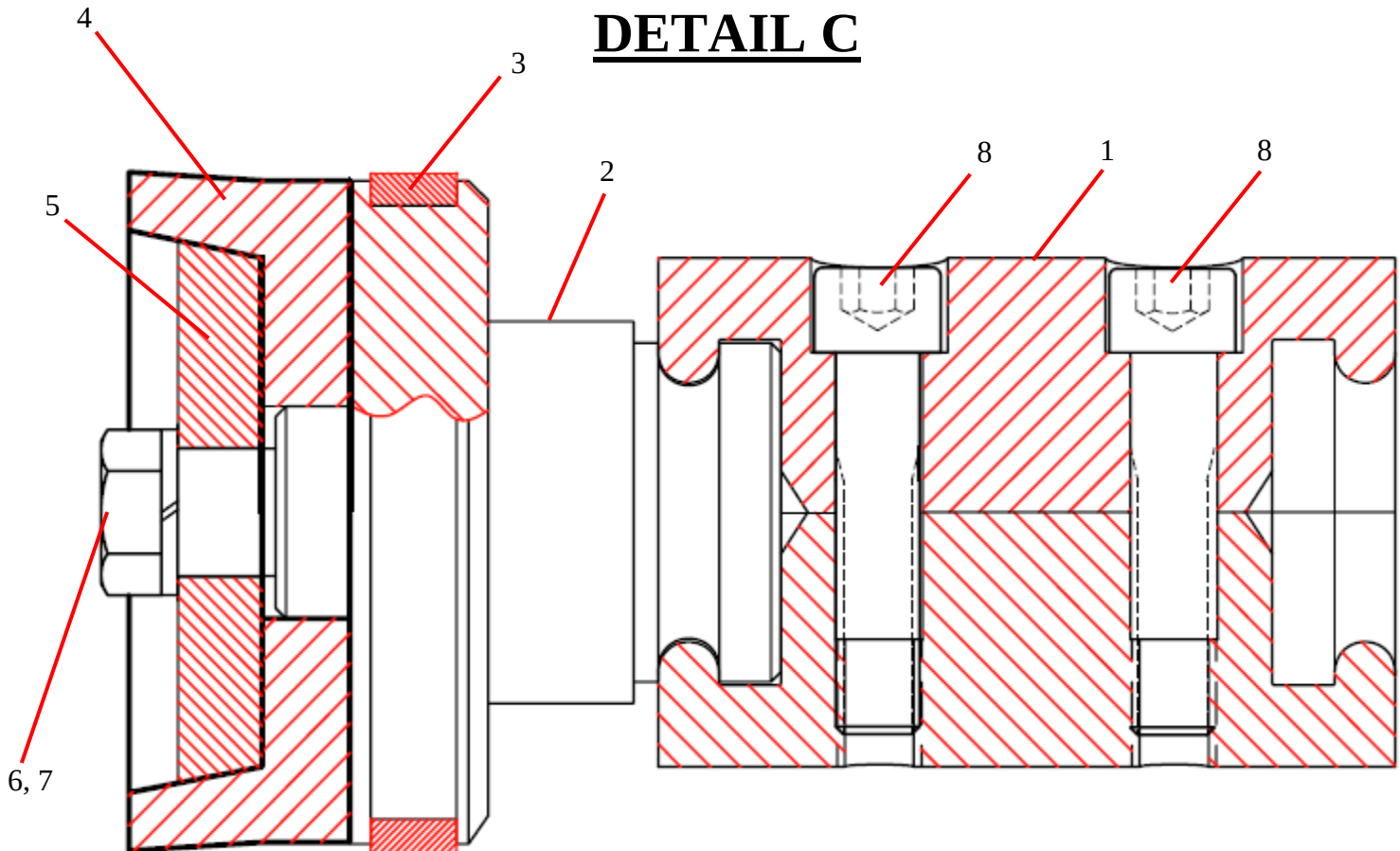
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## 4" PISTON CUP ASSEMBLY

### DETAIL C



| ID # | PART # | PART DESCRIPTION                  | QUANTITY |    |
|------|--------|-----------------------------------|----------|----|
| 1    | 70077  | PISTON COUPLING,                  | 1        | EA |
| 2    | 87940  | PISTON ADAPTER 4" WITH GUIDE BAND | 1        | EA |
| 3    | 87994  | WEAR RING(GUIDE BAND) 4"          | 1        | EA |
| 4    | 76500  | PISTON CUP, 4 IN                  | 1        | EA |
| 5    | 88011  | PISTON PLATE 4" SINGLE BOLT       | 1        | EA |
| 6    | 87982  | HHCS 3/4-16 1.5" LONG GR8 PLATED  | 1        | EA |
| 7    | 80010  | LOCKWASHER-3/4 STL ZINC PLATED    | 1        | EA |
| 8    |        | SCHS 1/2-20x2-1/4" FINE THREAD    | 2        | EA |



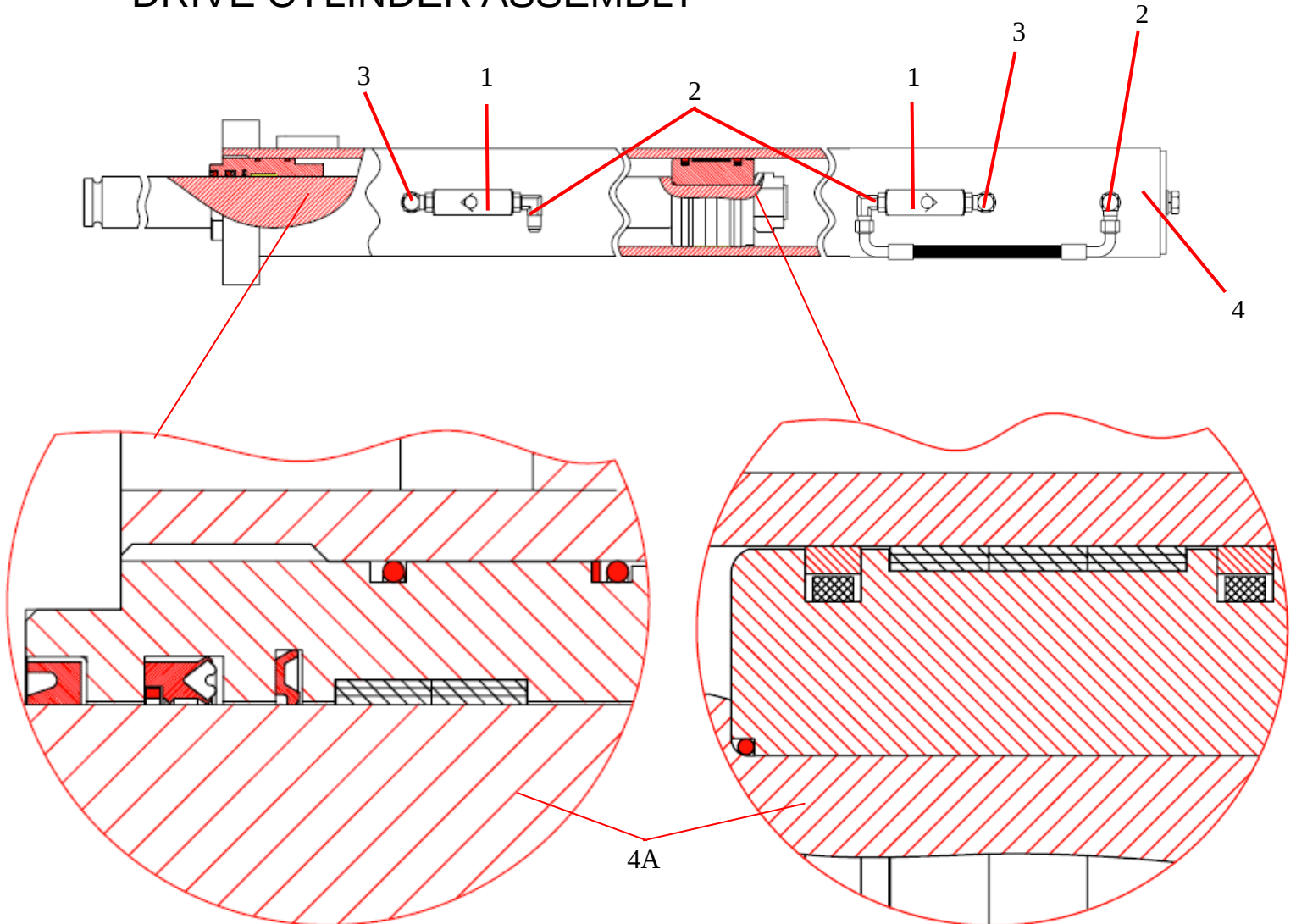


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## DRIVE CYLINDER ASSEMBLY



73120SKTX SEAL KIT  
ASSEMBLY

| ID # | PART #    | PART DESCRIPTION                    | QUANTITY |    |
|------|-----------|-------------------------------------|----------|----|
| 1    | 78961     | CHECK VALVE-5K PSI O-RING           | 4        | EA |
| 2    | 86748     | FITTING-MB-MJ90-6-6                 | 4        | EA |
| 3    |           | ELBOW, MB-MB90-6-6                  | 2        | EA |
| 4    | 73120     | DRIVE CYLINDER -3.75 X 2.00 X 36.00 | 1        | EA |
| 4A   | 73120SKTX | SEAL KIT                            | 1        | EA |



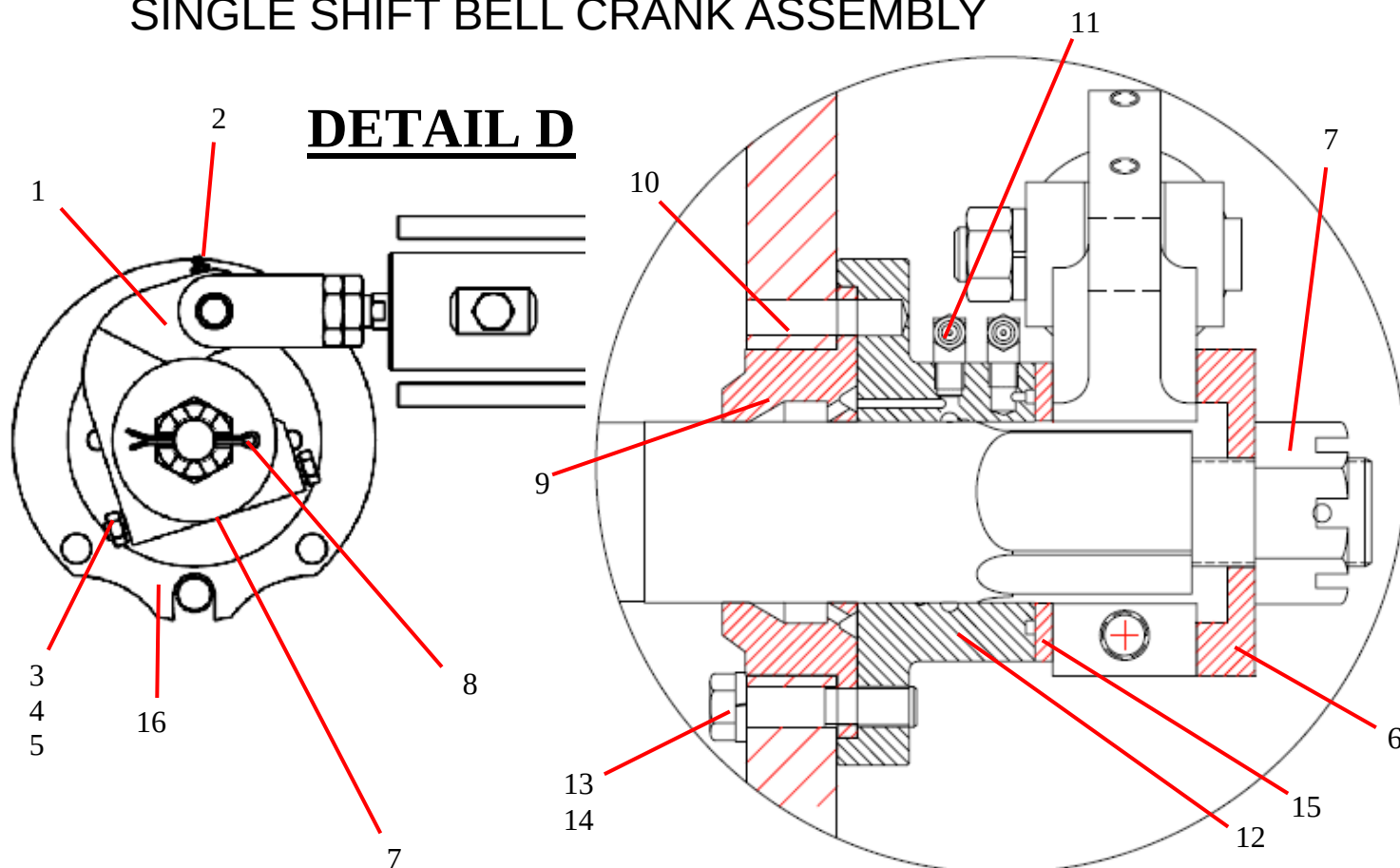
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### SINGLE SHIFT BELL CRANK ASSEMBLY

#### DETAIL D



| ID # | PART # | PART DESCRIPTION               | QUANTITY |    |
|------|--------|--------------------------------|----------|----|
| 1    | 71234  | BELL CRANK,                    | 1        | EA |
| 2    |        | GREASE FITTING, 1/8" NPT 45°   | 1        | EA |
| 3    |        | HHCS, 5/8"-18X5 1/2" GR 8      | 1        | EA |
| 4    |        | LOCK WASHER, 5/8"              | 1        | EA |
| 5    |        | JAM NUT, 5/8                   | 1        | EA |
| 6    | 70125  | SPACER, S-TUBE NUT             | 1        | EA |
| 7    | 70825  | NUT 1 1/2" - 12 CASTLE         | 1        | EA |
| 8    |        | COTTER PIN, 1/4 X4"            | 1        | EA |
| 9    | 73564  | SEAL, FLANGE BEARING 2.5 SHAFT | 1        | EA |
| 10   |        | DOWEL PIN, 1/2" DIA X 2"       | 2        | EA |
| 11   |        | GREASE FITTING, 1/8" NPT       | 2        | EA |
| 12   | 70124  | FLANGED BEARING                | 1        | EA |
| 13   |        | HHCS, 9/16 - 12X3" GR 8        | 4        | EA |
| 14   |        | LOCK WASHER, 9/16"             | 4        | EA |
| 15   | 70141  | THRUST WASHER, S -TUBE         | 1        | EA |
| 16   | 86502  | LOCATOR RING- FLANGE BEARING   | 1        | EA |



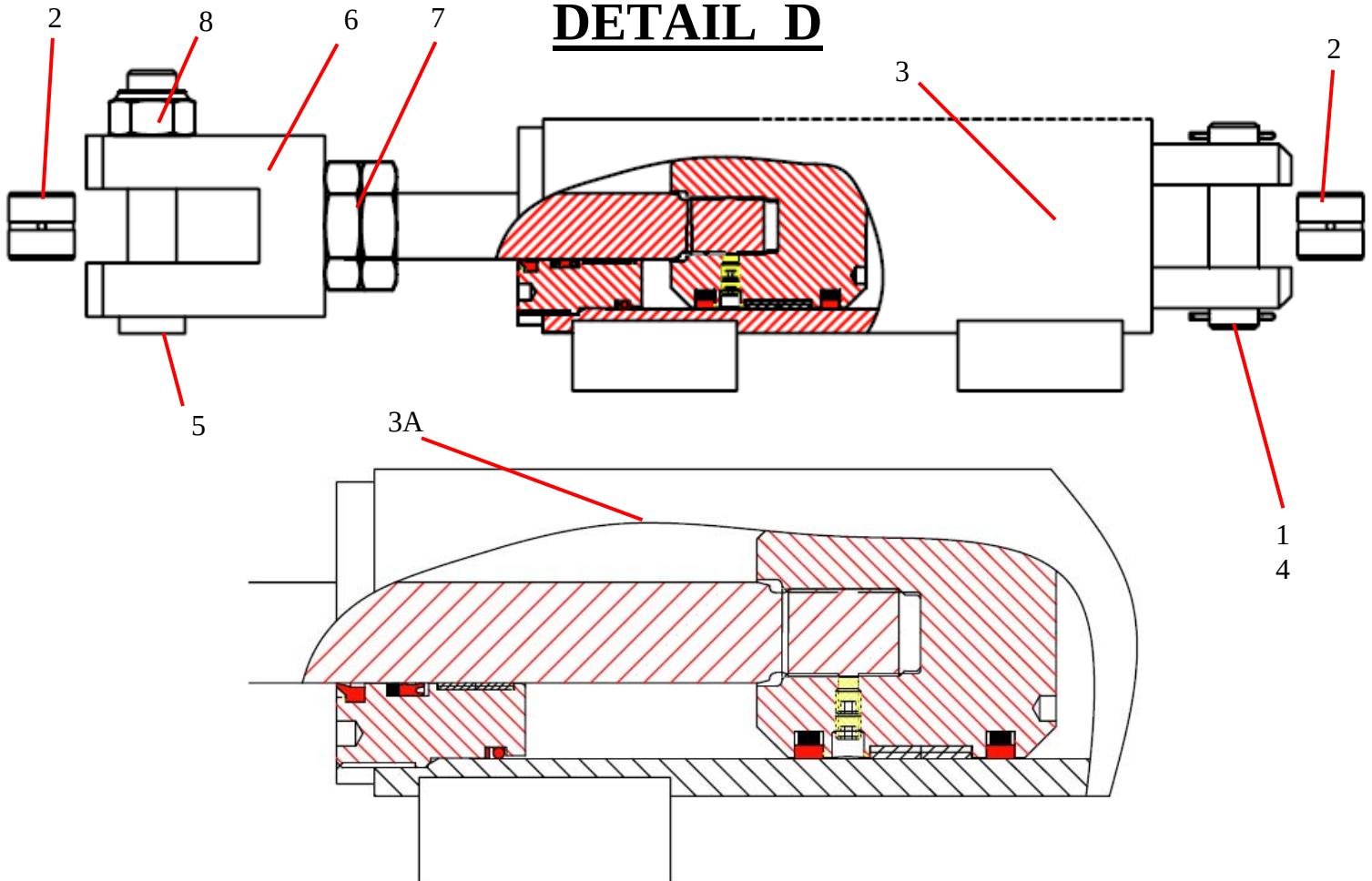
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## SINGLE SHIFT SWING CYLINDER ASSEMBLY

### DETAIL D



| ID # | PART #     | PART DESCRIPTION                    | QUANTITY |    |
|------|------------|-------------------------------------|----------|----|
| 1    | 74207      | PIN - CLEVIS - .750 DIA             | 1        | EA |
| 2    | 71011      | BUSHING - SHIFT CYLINDER            | 2        | EA |
| 3    | 71487      | SWING CYLINDER - 2.50 X 1.00 X 3.25 | 1        | EA |
| 3A   | 71487-SKTX | SEAL KIT                            | 1        | EA |
| 4    |            | COTTER PIN, 3/32X1 3/4"             | 2        | EA |
| 5    | 70142      | PIN, CLEVIS                         | 1        | EA |
| 6    | 70143      | CLEVIS, SHIFT CYLINDER              | 1        | EA |
| 7    |            | 1"X14 JAM NUT                       | 2        | EA |
| 8    |            | 3/4 -10 LOCK NUT                    | 1        | EA |



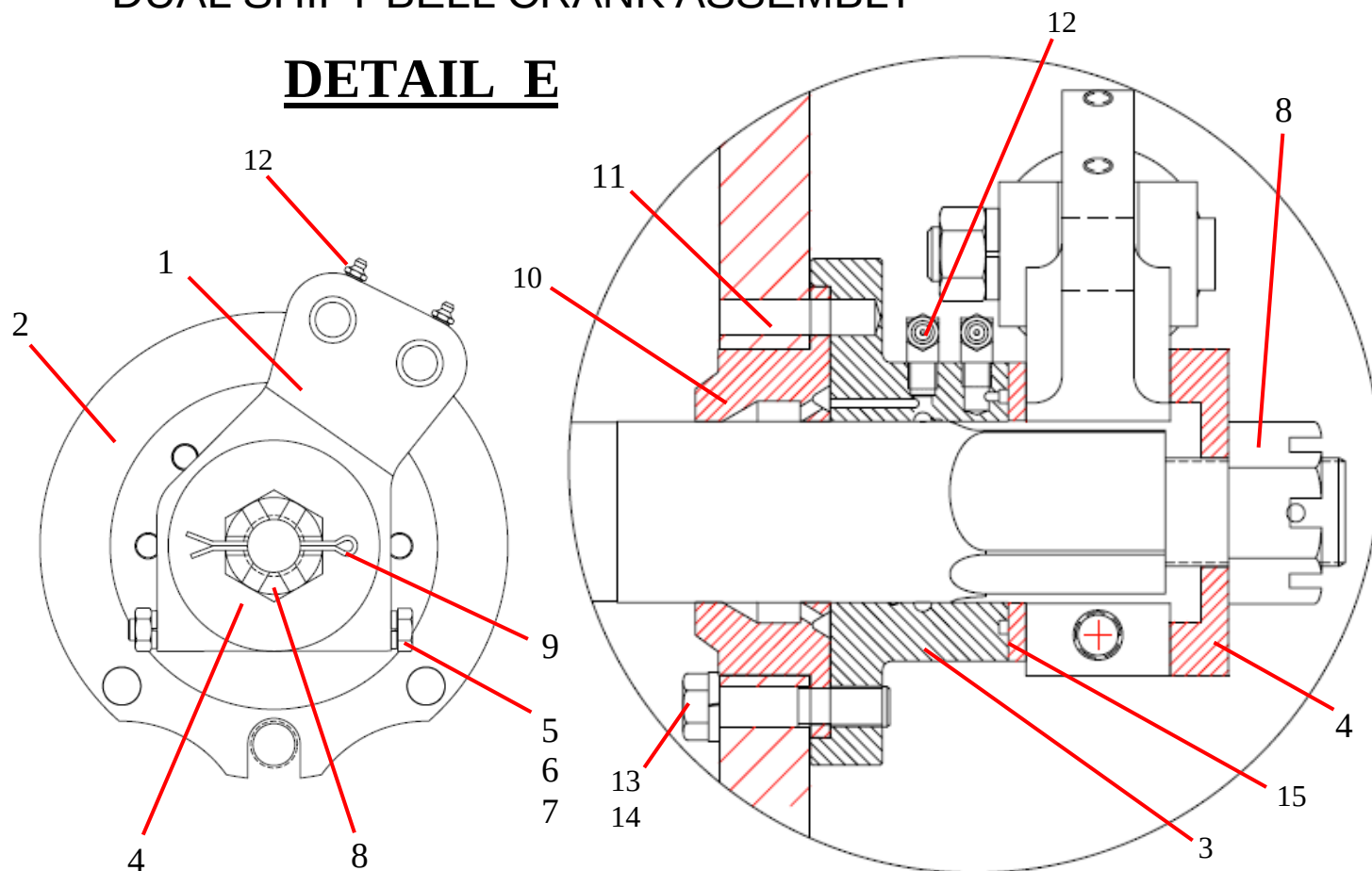
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### DUAL SHIFT BELL CRANK ASSEMBLY

#### DETAIL E



| ID # | PART # | PART DESCRIPTION               | QUANTITY |    |
|------|--------|--------------------------------|----------|----|
| 1    | 85604  | BELL CRANK, B10R, 2 CYLINDER   | 1        | EA |
| 2    | 86502  | LOCATOR RING- FLANGE BEARING   | 1        | EA |
| 3    | 70124  | FLANGED BEARING                | 1        | EA |
| 4    | 70125  | SPACER, S-TUBE NUT             | 1        | EA |
| 5    |        | HHCS, 5/8"-18X5 1/2" GR 8      | 1        | EA |
| 6    |        | LOCK WASHER, 5/8"              | 1        | EA |
| 7    |        | JAM NUT, 5/8"                  | 1        | EA |
| 8    | 70825  | NUT 1 1/2" - 12 CASTLE         | 1        | EA |
| 9    |        | COTTER PIN, 1/4 X4"            | 1        | EA |
| 10   | 73564  | SEAL, FLANGE BEARING 2.5 SHAFT | 1        | EA |
| 11   |        | DOWEL PIN, 1/2" DIA X 2"       | 2        | EA |
| 12   |        | GREASE FITTING, 1/8" NPT       | 2        | EA |
| 13   |        | HHCS, 9/16 - 12X3" GR 8        | 4        | EA |
| 14   |        | LOCK WASHER, 9/16"             | 4        | EA |
| 15   | 70141  | THRUST WASHER, S -TUBE         | 1        | EA |



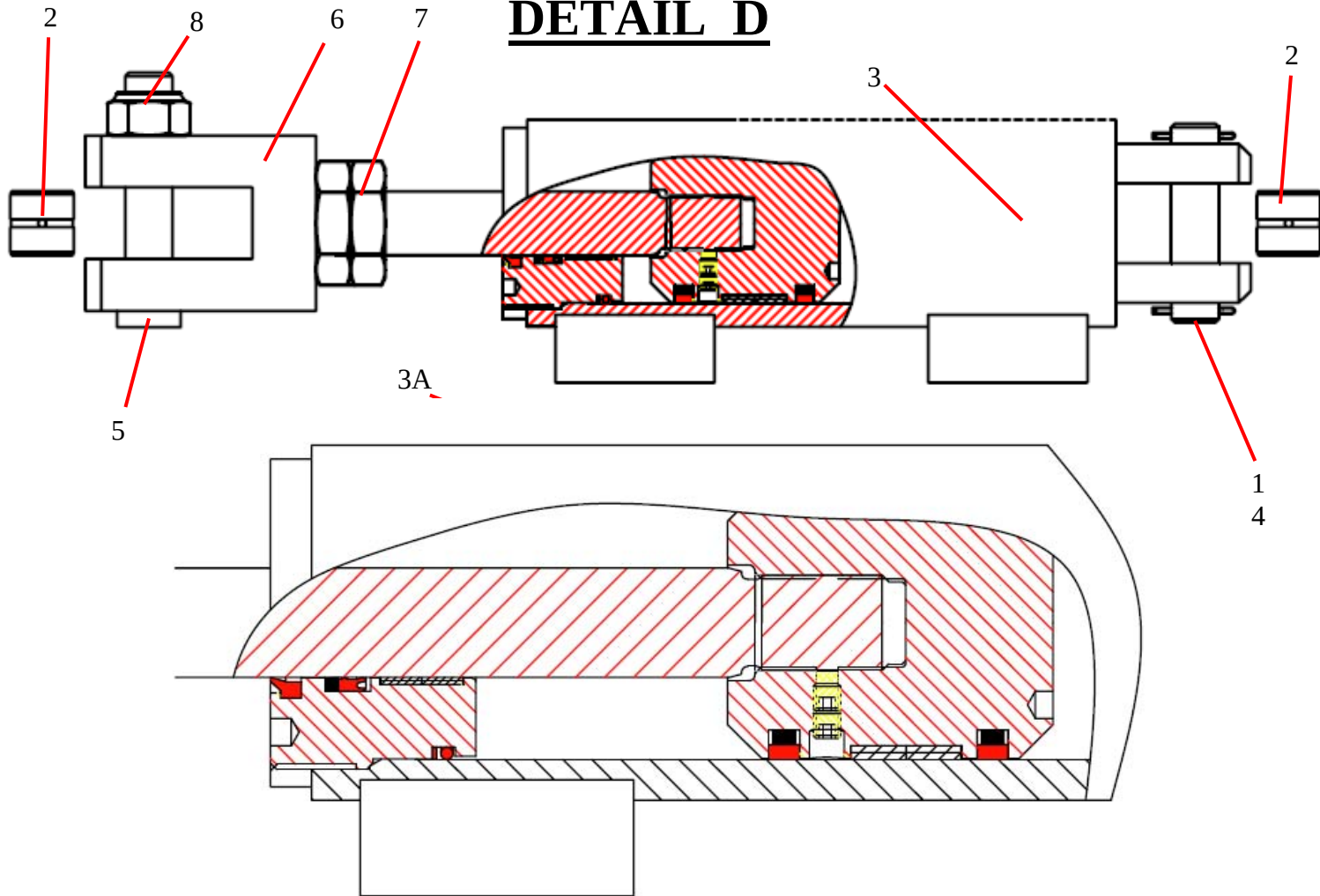
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## DUAL SHIFT SWING CYLINDER ASSEMBLY

### DETAIL D



| ID # | PART #     | PART DESCRIPTION                  | QUANTITY |    |
|------|------------|-----------------------------------|----------|----|
| 1    | 74207      | PIN - CLEVIS - .750 DIA           | 1        | EA |
| 2    | 71011      | BUSHING - SHIFT CYLINDER          | 1        | EA |
| 3    | 86221      | SWING CYLINDER 2.50 X 1.00 X 5.00 | 2        | EA |
| 3A   | 86221-SKTX | SEAL KIT                          | 2        | EA |
| 4    |            | COTTER PIN, 3/32X1 3/4"           | 2        | EA |
| 5    | 70142      | PIN, CLEVIS                       | 1        | EA |
| 6    | 70143      | CLEVIS, SHIFT CYLINDER            | 1        | EA |
| 7    |            | 1"X14 JAM NUT                     | 2        | EA |
| 8    |            | 3/4 - 10 LOCK NUT                 | 1        | EA |

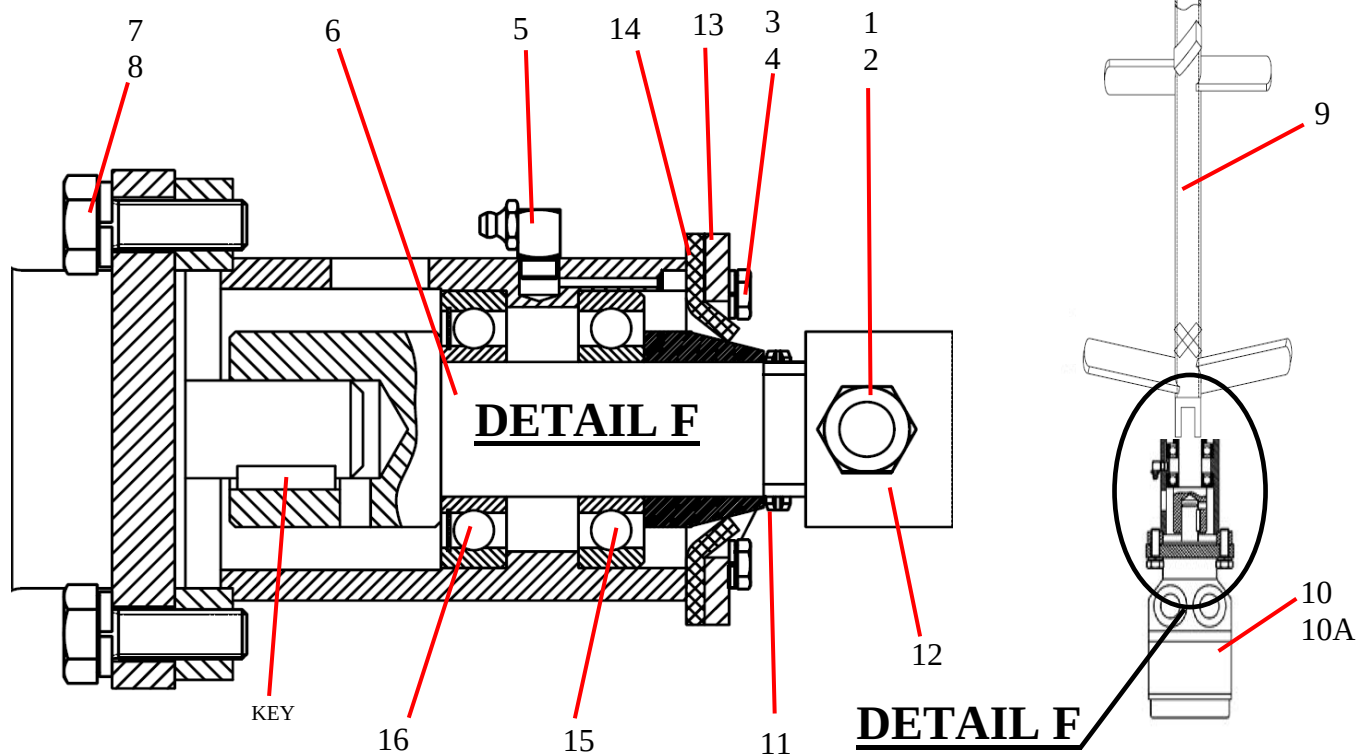


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### HOPPER AGITATOR ASSEMBLY (STANDARD)



| ID# | PART #  | PART DESCRIPTION              | QUANTITY |    |
|-----|---------|-------------------------------|----------|----|
|     | 85761   | AGITATOR ASSEMBLY             |          |    |
| 1   |         | HHCS, 1/2" -13X2 1/4" GR 8    | 1        | EA |
| 2   |         | LOCK NUT, 1/2" -13            | 1        | EA |
| 3   |         | 1/4"-28X3/4"                  | 6        | EA |
| 4   |         | LOCK WASHER, 1/4"             | 6        | EA |
| 5   |         | GREASE FITTING, 1/8" NPT 90°  | 1        | EA |
| 6   | 85923   | SHAFT,AGITATOR                | 1        | EA |
| 7   |         | HHCS, 1/2" -20X1 1/2" GR 8    | 2        | EA |
| 8   |         | LOCK WASHER, 1/2"             | 2        | EA |
| 9   | 85717   | AGITATOR, PADDLE-B20          | 1        | EA |
| 10  | 85811   | HYD MOTOR, 45.6 CID, 1" SHAFT | 1        | EA |
| 10A | 85809SK | SEAL KIT                      | 1        | EA |
| 11  | 85976   | WEAR RING, AGITATOR           | 1        | EA |
| 12  |         | SPRING PIN, 1/4" DIA X 1 3/4" | 1        | EA |
| 13  | 70211   | FLANGE SEAL S/W               | 1        | EA |
| 14  | 70212   | SEAL REMIXER                  | 1        | EA |
| 15  | 85978   | BEARING, BALL, PLAIN          | 1        | EA |
| 16  | 85979   | BEARING, BALL 1 SEAL          | 1        | EA |



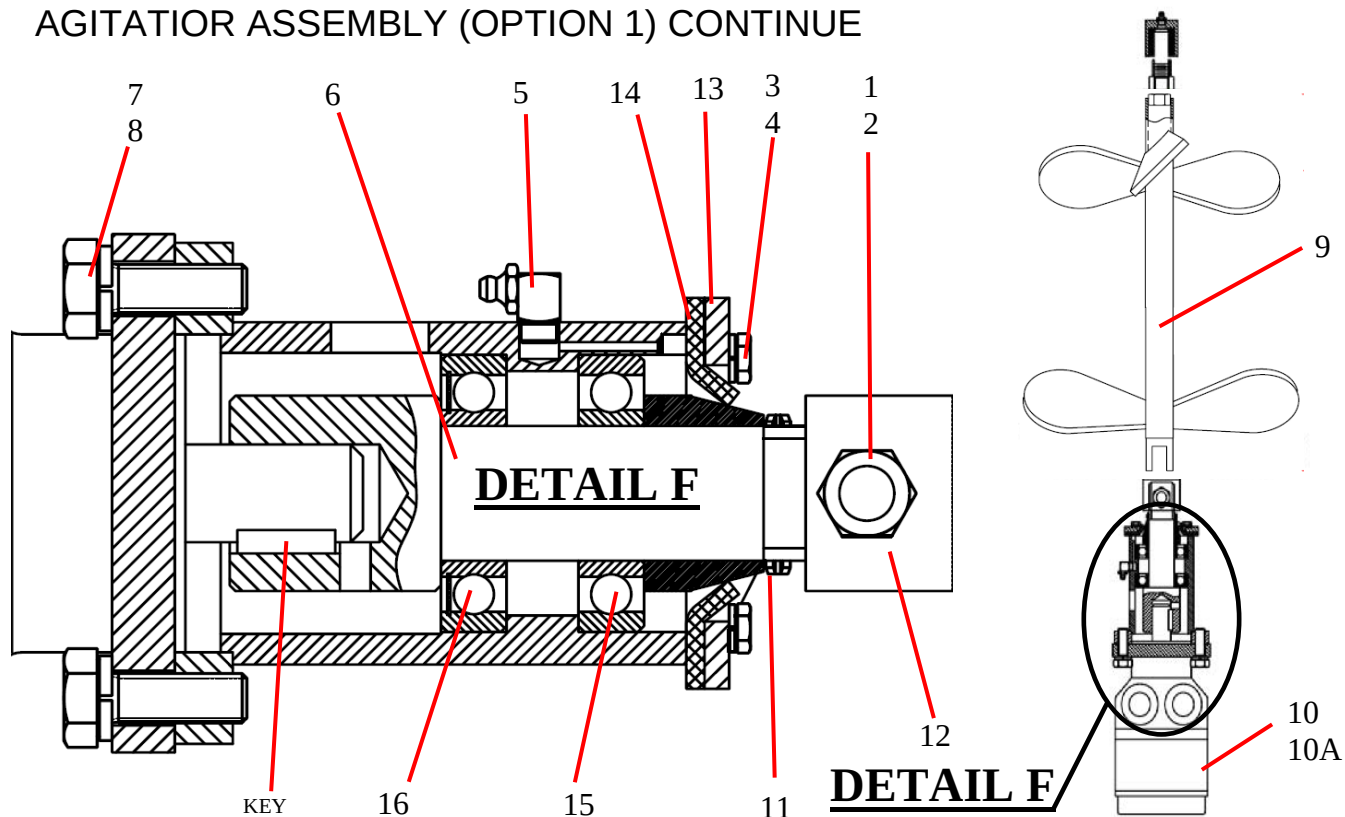


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### AGITATOR ASSEMBLY (OPTION 1) CONTINUE



| ID# | PART #  | PART DESCRIPTION              | QUANTITY |    |
|-----|---------|-------------------------------|----------|----|
|     | 85761   | AGITATOR ASSEMBLY             |          |    |
| 1   |         | HHCS, 1/2 -13X2 1/4" GR 8     | 1        | EA |
| 2   |         | LOCK NUT, 1/2" -13            | 1        | EA |
| 3   |         | 1/4-28X3/4"                   | 6        | EA |
| 4   |         | LOCK WASHER, 1/4"             | 6        | EA |
| 5   |         | GREASE FITTING, 1/8" NPT 90°  | 1        | EA |
| 6   | 85923   | SHAFT,AGITATOR                | 1        | EA |
| 7   |         | HHCS, 1/2 -20X1 1/2" GR 8     | 2        | EA |
| 8   |         | LOCK WASHER, 1/2"             | 2        | EA |
| 9   | 87356   | AGITATOR, PADDLE-B20          | 1        | EA |
| 10  | 85811   | HYD MOTOR, 45.6 CID, 1" SHAFT | 1        | EA |
| 10A | 85809SK | SEAL KIT                      | 1        | EA |
| 11  | 85976   | WEAR RING, AGITATOR           | 1        | EA |
| 12  |         | SPRING PIN, 1/4" DIA X 1 3/4" | 1        | EA |
| 13  | 70211   | FLANGE SEAL S/W               | 1        | EA |
| 14  | 70212   | SEAL REMIXER                  | 1        | EA |
| 15  | 85978   | BEARING, BALL, PLAIN          | 1        | EA |
| 16  | 85979   | BEARING, BALL 1 SEAL          | 1        | EA |

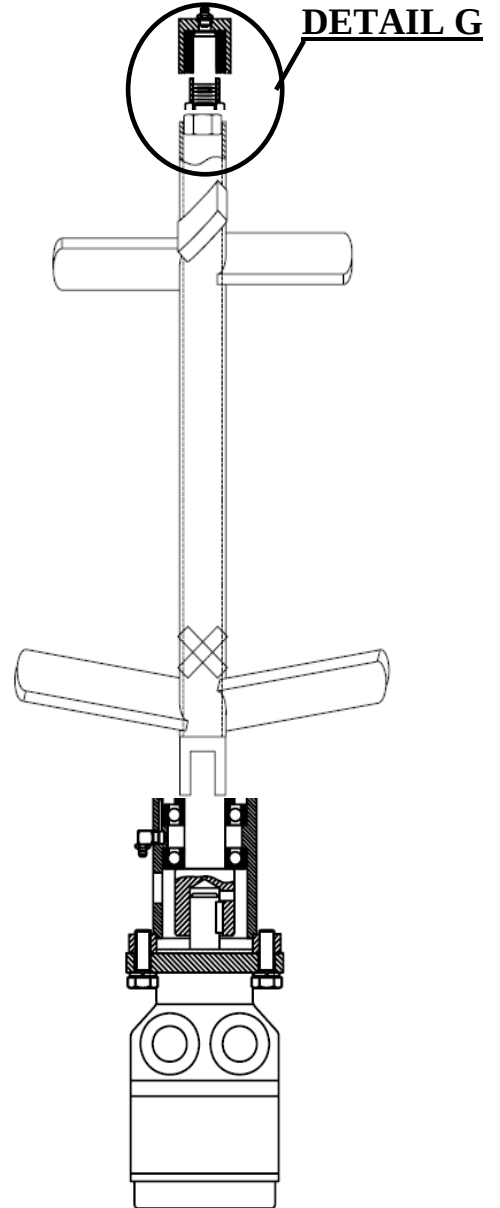
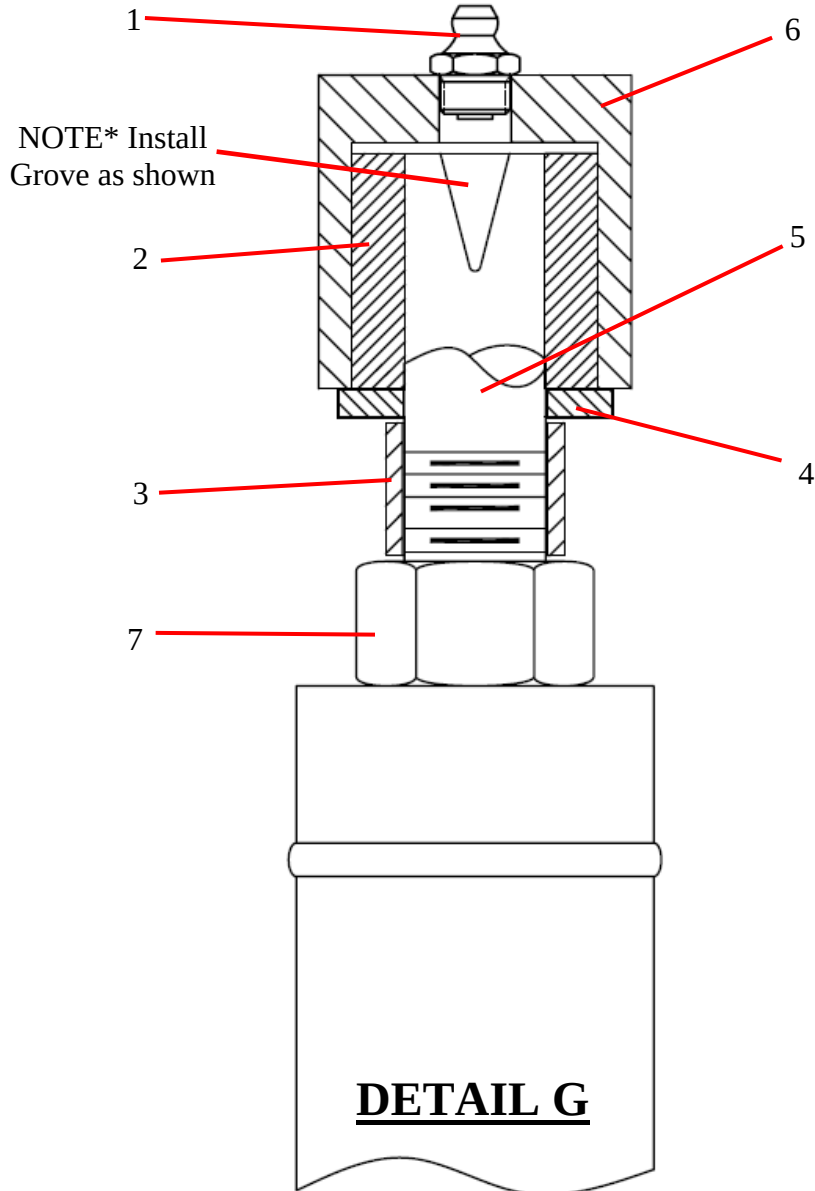


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## AGITATOR ASSEMBLY CONTINUE



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|------|--------|------------------------------------|----------|----|
| 1    |        | GREASE FITTING, 1/8" NPT STRAITGHT | 1        | EA |
| 2    | 70219  | REMIX SHAFT BUSHING                | 1        | EA |
| 3    | 77877  | SPACER, REMIX                      | 1        | EA |
| 4    | 86824  | FLAT WASHER, 3/4" SAE              | 1        | EA |
| 5    | 70214  | IDLER SHAFT, AGITATOR              | 1        | EA |
| 6    | 70210  | IDLER BEARING HOUSING              | 1        | EA |
| 7    | 80030  | HEX NUT-M20X2.5 PLATED             | 1        | EA |



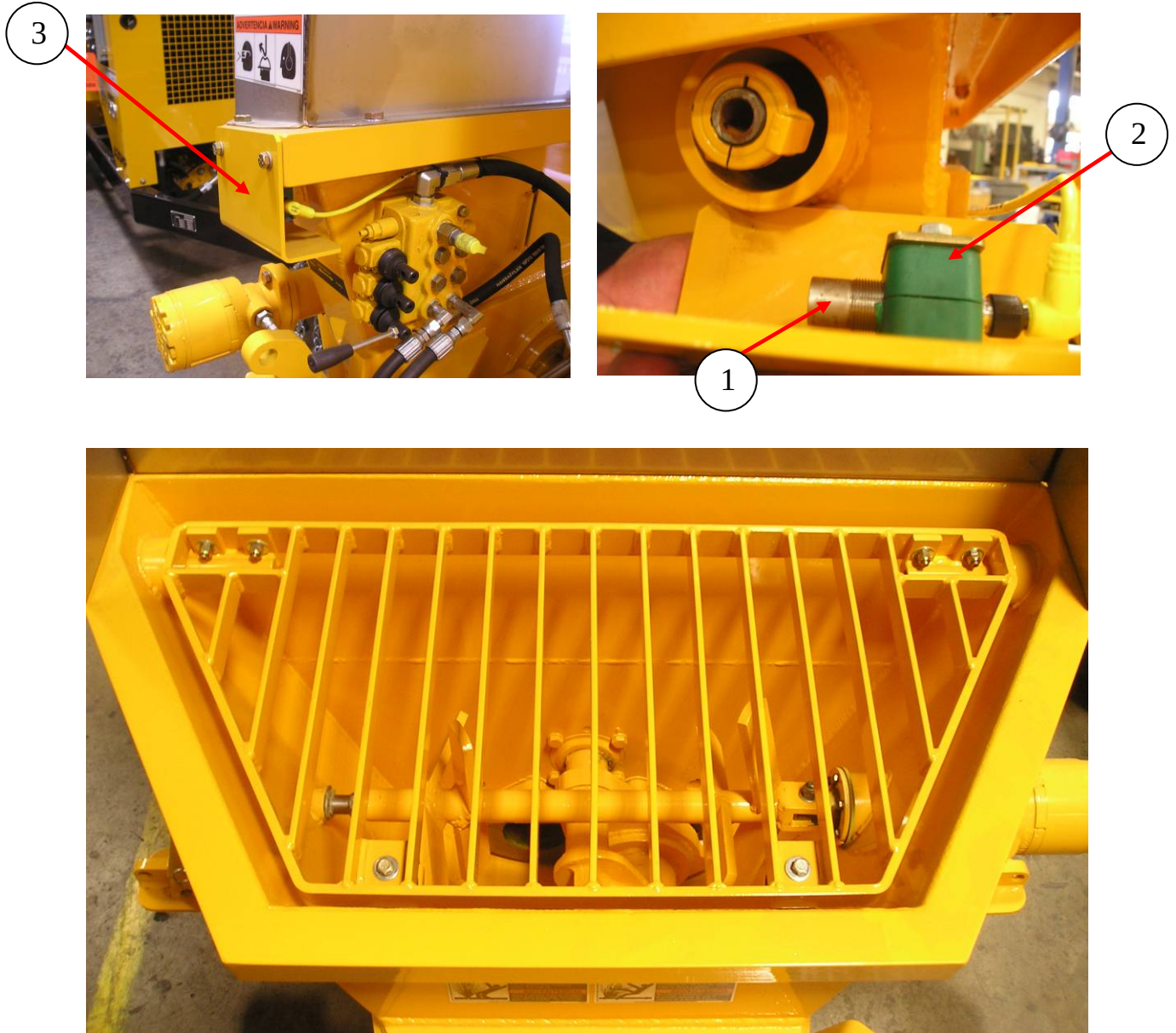


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## SAFETY GRATE



| ID # | PART #     | PART DESCRIPTION                  | QUANTITY |    |
|------|------------|-----------------------------------|----------|----|
| 1    | 87369      | PROXIMITY SENSOR PNP HOPPER GRATE | 1        | EA |
| 2    | 801902-006 | CLAMP,18MM TUBE CLAMP SET         | 1        | EA |
| 3    | 87997      | COVER WELD PROX SWITCH HOPPER     | 1        | EA |

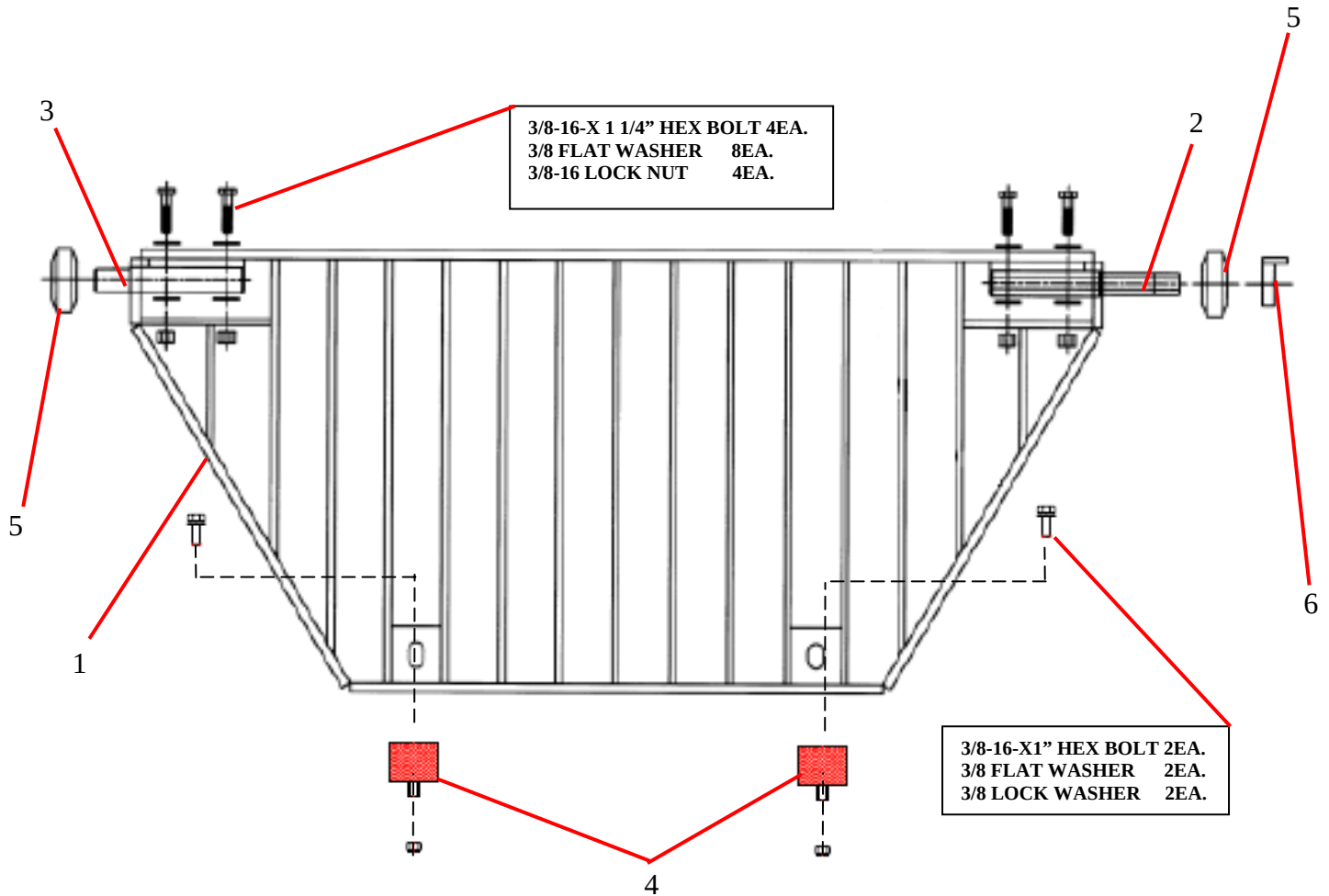


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## GRATE ASSEMBLY



| ID # | PART #   | PART DESCRIPTION           | QUANTITY |    |
|------|----------|----------------------------|----------|----|
| 1    | 87892    | GRATE WELDMENT, STD HOPPER | 1        | EA |
| 2    | 87857    | PIN WELDMENT LONG          | 1        | EA |
| 3    | 87858    | PIN WELDMENT SHORT         | 1        | EA |
| 4    | 86083    | BUMPER, HOPPER GRATE       | 2        | EA |
| 5    | W-102490 | RUBBER BUFFER 65X22.5X26   | 2        | EA |
| 6    | 87769    | COLLAR SHAFT, 7/8" DIA     | 1        | EA |

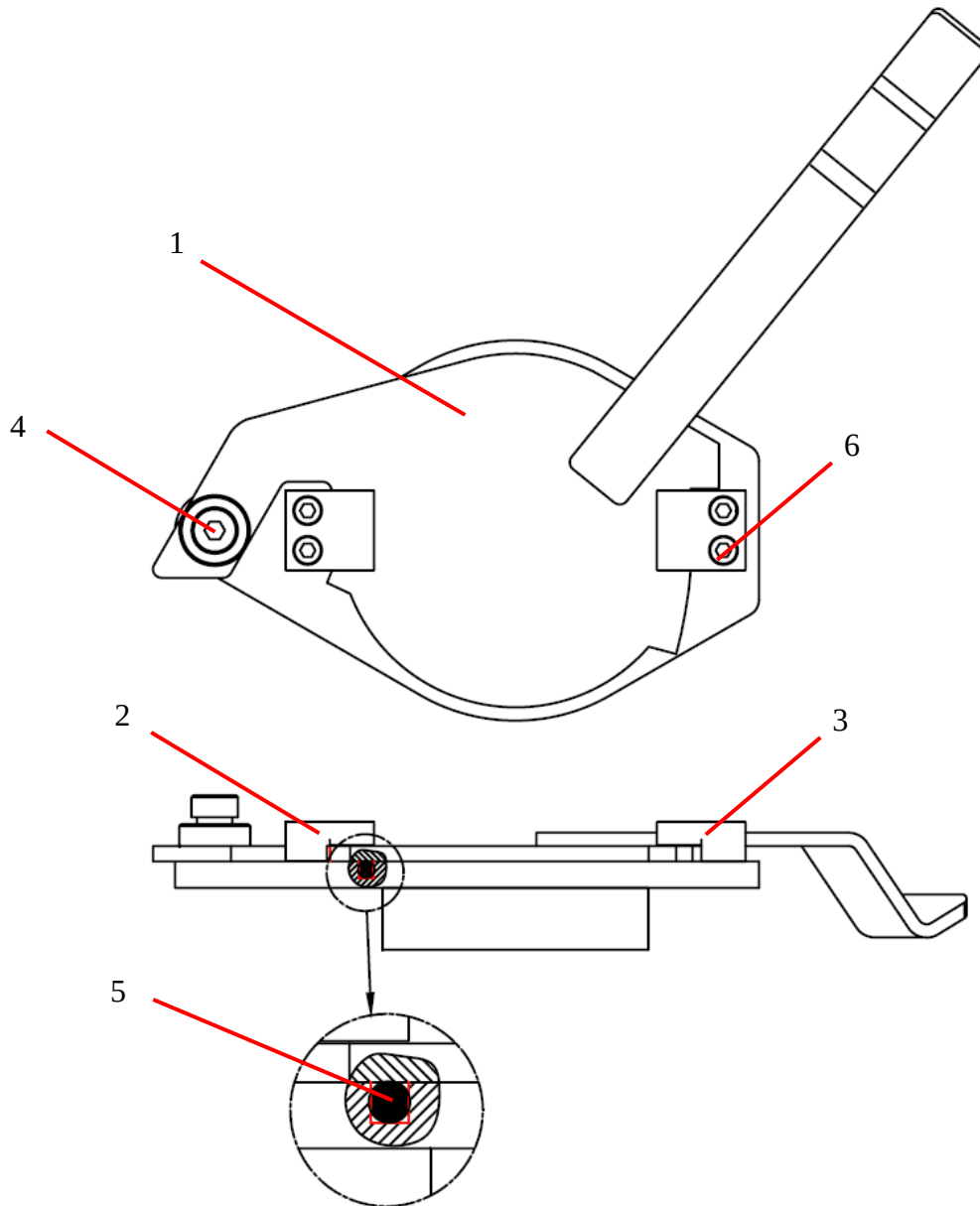


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## CLEAN OUT DOOR ASSEMBLY



| ID # | PART #   | PART DESCRIPTION             | QUANTITY |    |
|------|----------|------------------------------|----------|----|
| 1    | 86988    | DOOR WELDMENT, CLEAN OUT     | 1        | EA |
| 2    | 86559    | BLOCK, CLEAN OUT DOOR, LH    | 1        | EA |
| 3    | 86560    | BLOCK, CLEAN OUT DOOR, RH    | 1        | EA |
| 4    | 86922    | SHOULDER SCREW 1" DIA-1 1/4" | 1        | EA |
| 5    | W102908A | O-RING CORD, HOPPER DOOR     | 2.21     | FT |
| 6    |          | SHCS 1/2"-13 X 1 1/4"        | 4        | EA |



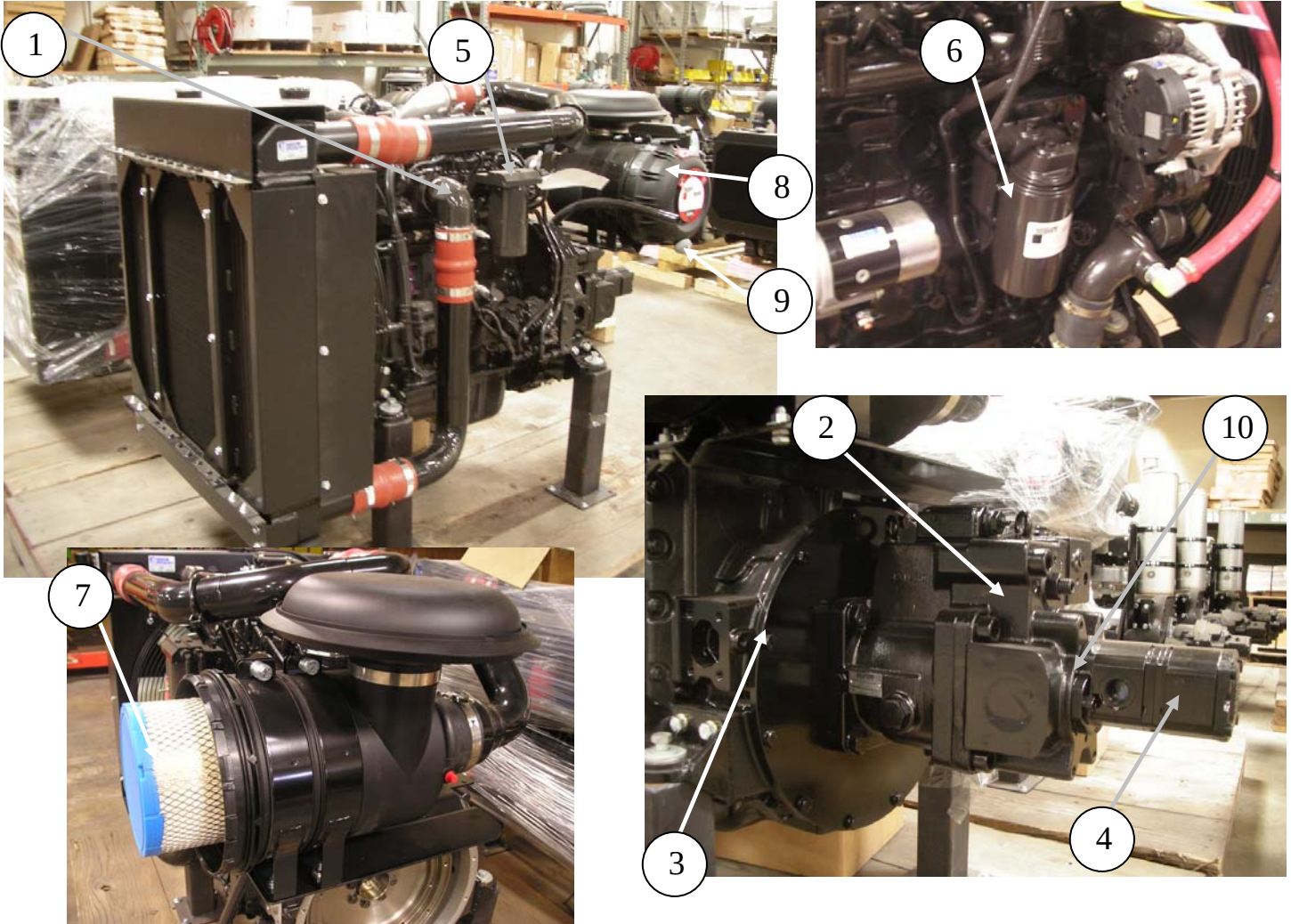
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## POWER TRAIN

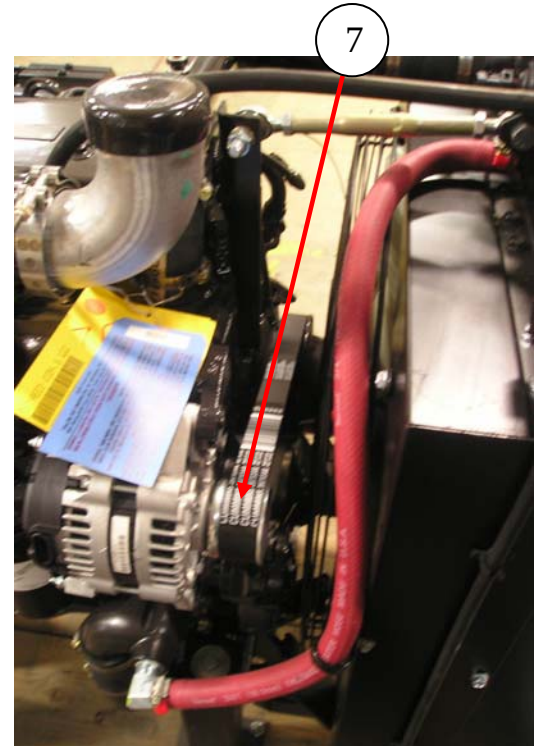
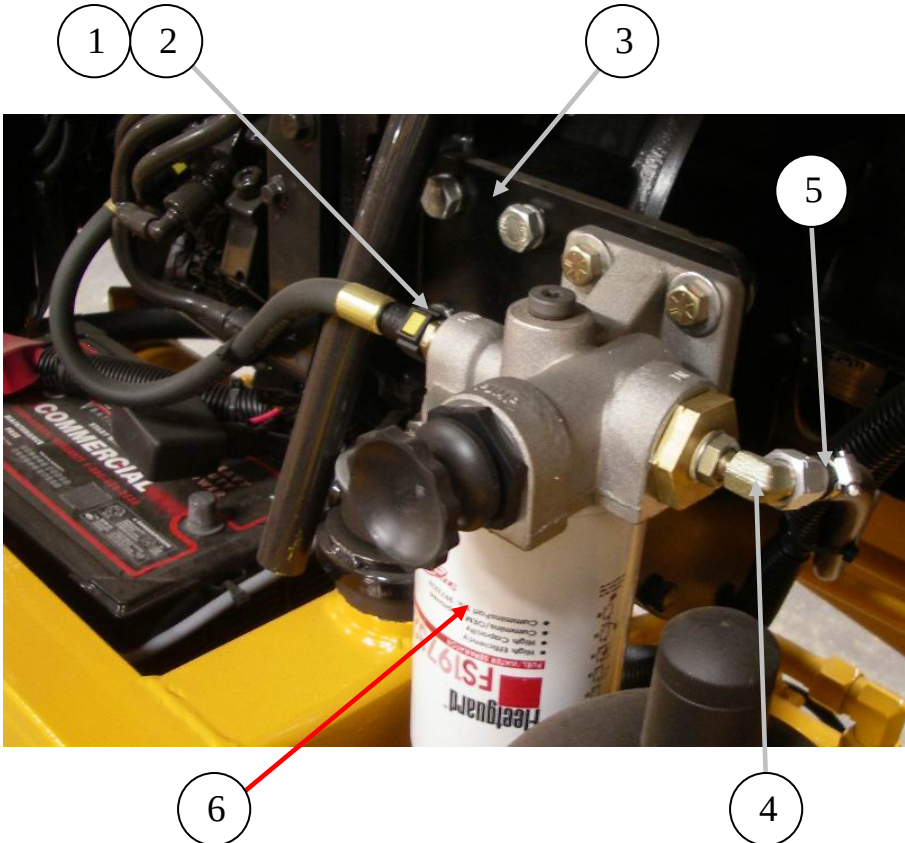
### ENGINE, PUMPS, AND FILTERS



| ID # | PART #    | PART DESCRIPTION                        | QUANTITY |    |
|------|-----------|-----------------------------------------|----------|----|
| 1    | 87724-1   | ENGINE QSB4.5 110 HP CUMMINS            | 1        | EA |
| 2    | 87723     | PUMP,140CC,KAWASAKI                     | 1        | EA |
| 3    | 87360     | PUMP DRIVE -SAE 3 - SAE D               | 1        | EA |
| 4    | 87571-1   | GEAR PUMP, 23/11.3 CC RH, A-PAD SPL     | 1        | EA |
| 5    | 87725-002 | FUEL FILTER                             | 1        | EA |
| 6    | 87725-001 | OIL FILTER                              | 1        | EA |
| 7    | 87725-010 | AIR FILTER ELEMENT                      | 1        | EA |
| 8    | 87725-014 | AIR FILTER HOUSING ASSEMBLY             | 1        | EA |
| 9    | 87725-015 | AIR FILTER HOUSING COVER, DUST EJECTION | 1        | EA |
| 10   | 88174     | O-RING                                  | 1        | EA |

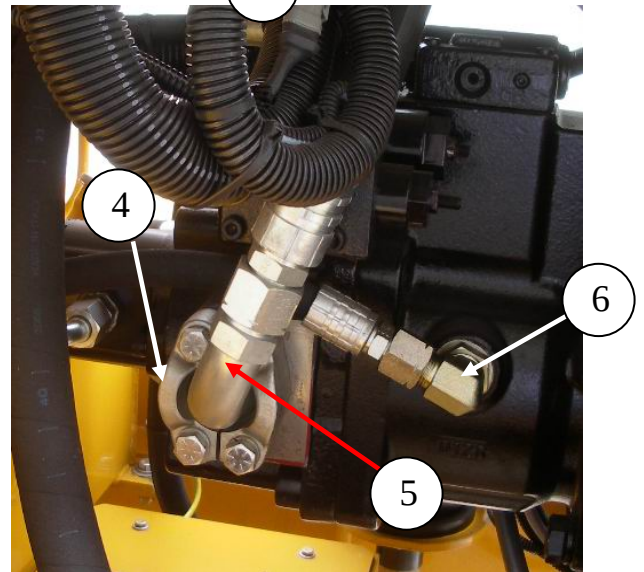
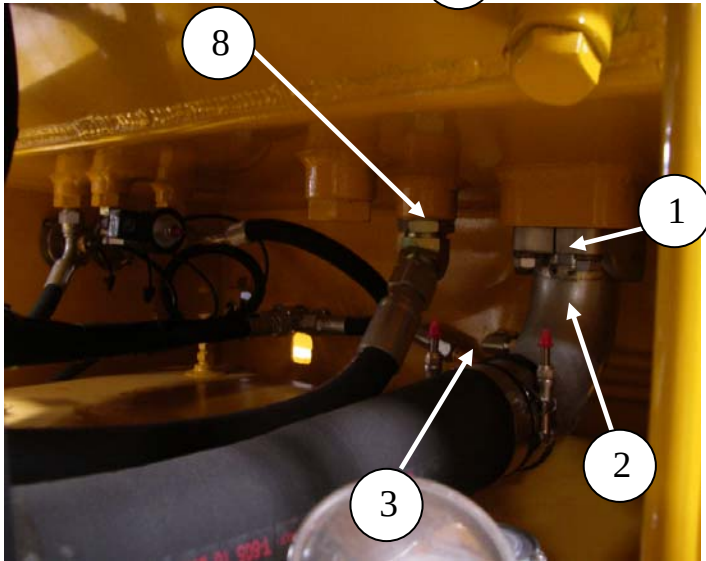
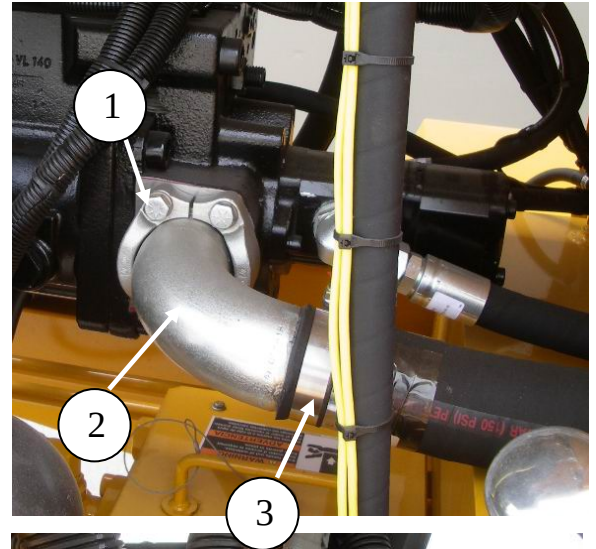
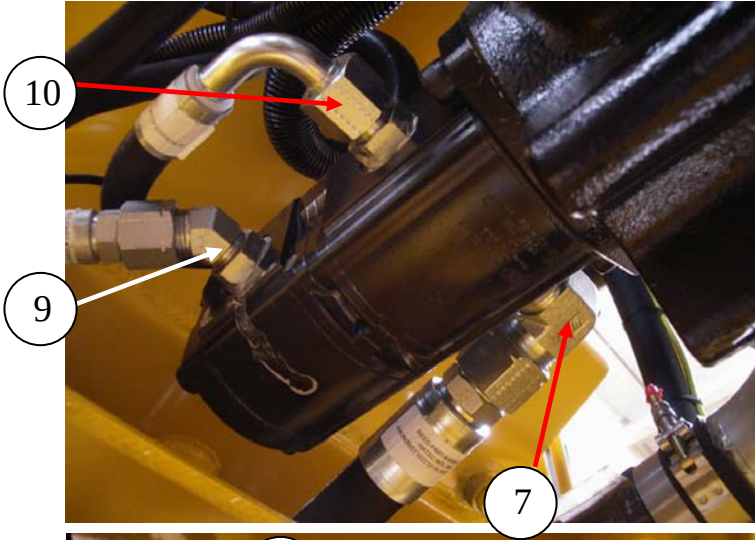


## ENGINE, PUMPS, AND FILTERS CONTINUED



| ID # | PART #    | PART DESCRIPTION                           | QUANTITY |    |
|------|-----------|--------------------------------------------|----------|----|
| 1    | 88036     | FITTING FUEL LINE, QUICK DISCONNECT        | 1        | EA |
| 2    | 88037     | WASHER SEALING FOR 88036 FITTING           | 1        | EA |
| 3    | 87793     | MOUNT FUEL FILTER, B SER CUMMINS           | 1        | EA |
| 4    | 87567     | FITTING 90DEG METRIC TO JIC                | 2        | EA |
| 5    | 87566     | FITTING BARBED JIC-STEM, 3/8-3/8           | 2        | EA |
| 6    | 87725-003 | FUEL / WATER SEPARATOR REPLACEMENT ELEMENT | 1        | EA |
| 7    | 87725-005 | FAN BELT                                   | 1        | EA |

## FITTINGS



| ID # | PART #    | PART DESCRIPTION               | QUANTITY |    |
|------|-----------|--------------------------------|----------|----|
| 1    | 86264-007 | SPLIT FLANGE-CODE 61- 40 SAE   | 2        | EA |
| 2    | 86911-009 | STEM, 2 ½" 90 DEG, 40GL-40FL90 | 2        | EA |
| 3    | 79803     | CLAMP - T-BOLT - 3.00 DIA      | 4        | EA |
| 4    | 86265-003 | SPLIT FLANGE-CODE 62- 20 SAE   | 1        | EA |
| 5    | 86912-006 | FLANGE, FLH6K-MJ90-20-16       | 1        | EA |
| 6    |           | ADAPTOR, MB-MJ-90-12-10        | 1        | EA |
| 7    | 86900-030 | ADAPTOR, MB-MJ-20-16           | 1        | EA |
| 8    | 87754-020 | ELBOW, MB-MJ45-20-16           | 1        | EA |
| 9    |           | MB-MJ-45-10                    | 1        | EA |
| 10   | 86900-017 | MB-MJ0-10-10                   | 1        | EA |

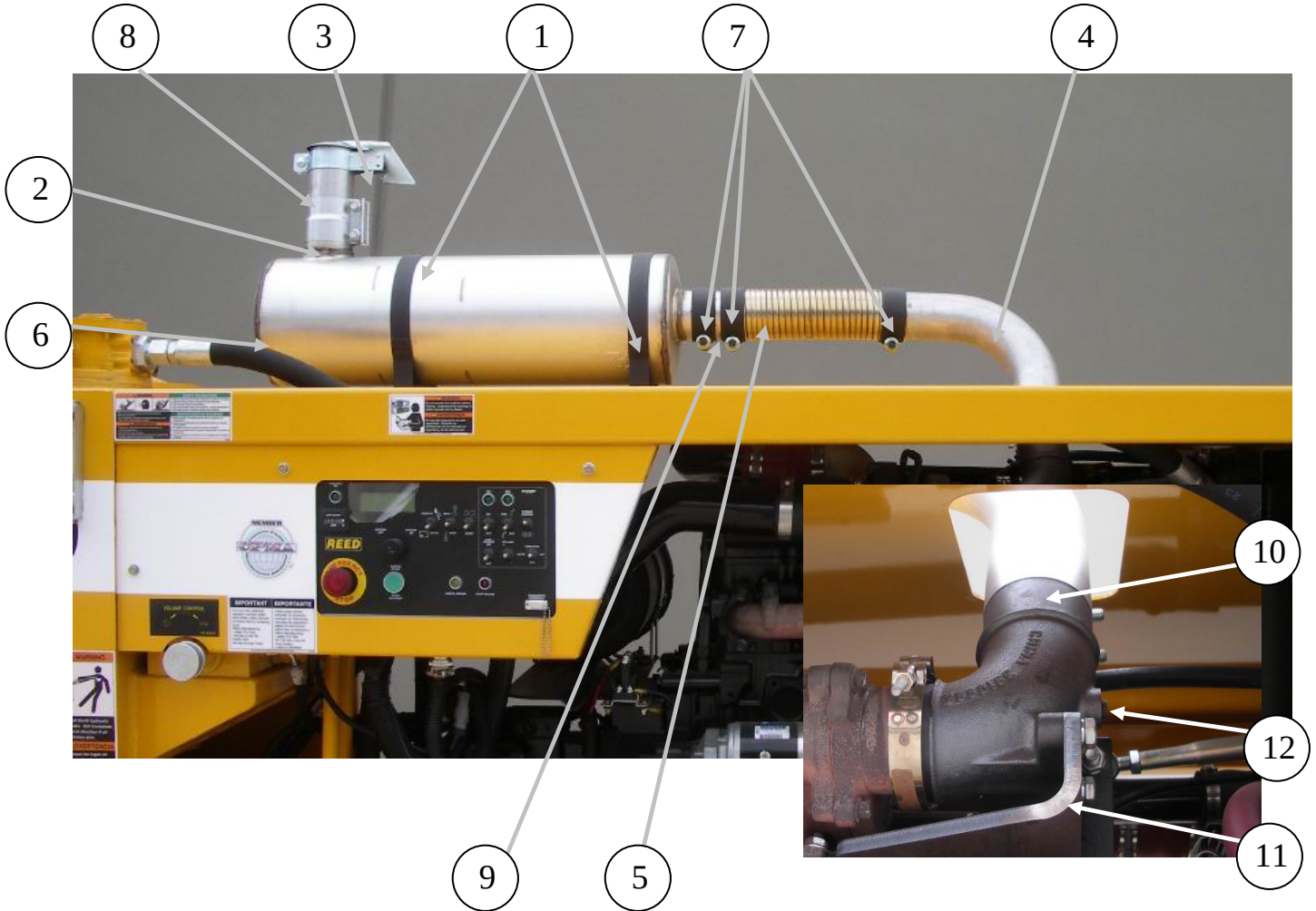


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## EXHAUST



| ID # | PART # | PART DESCRIPTION               | QUANTITY |    |
|------|--------|--------------------------------|----------|----|
| 1    | 87199  | MOUNTING BAND, 8.5" DIA        | 2        | EA |
| 2    | 87198  | CLAMP, TORCTITE, 3"            | 1        | EA |
| 3    | 73475  | RAIN CAP 3"                    | 1        | EA |
| 4    | 86648  | EXHAUST ELBOW 3"               | 1        | EA |
| 5    | 87579  | EXHAUST FLEX TUBE, 3" 12" LONG | 1        | EA |
| 6    | 87792  | MUFFLER B SER CUMMINS          | 1        | EA |
| 7    | 87578  | EXHAUST CLAMP, BENT BOLT 3"    | 3        | EA |
| 8    | 87465  | TUBE EXHAUST, B SERIES, LONG   | 1        | EA |
| 9    | 87878  | TUBE EXHAUST, B SERIES, SHORT  | 1        | EA |
| 10   | 88013  | CLAMP EXHAUST 3" TORCTITE      | 1        | EA |
| 11   | 88016  | BRACKET 4 CYL CUMMINS EXHAUST  | 1        | EA |
| 12   | 74679  | PLUG 1/4" NPT SOCKET HEAD      | 1        | EA |





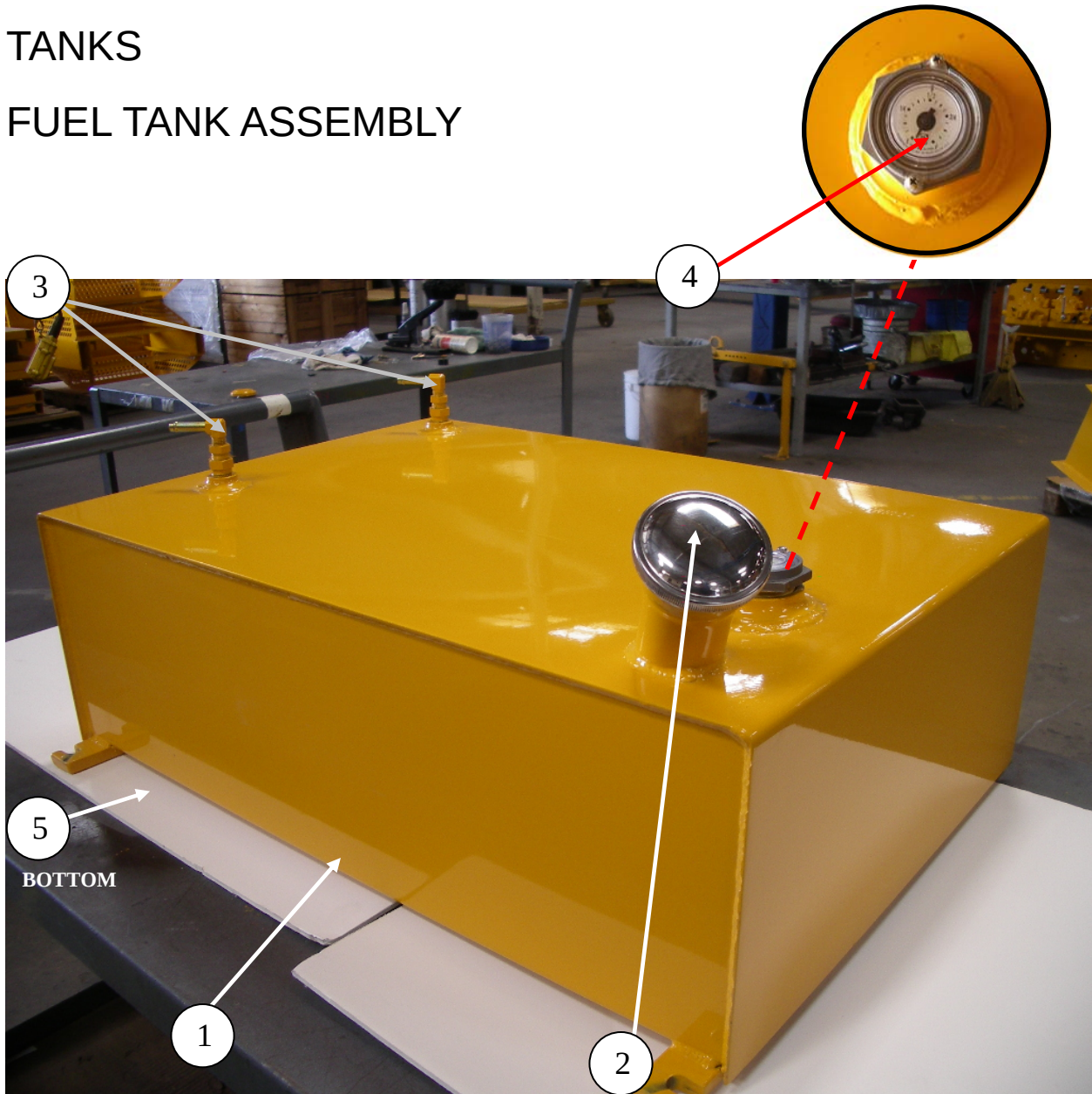
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## TANKS

### FUEL TANK ASSEMBLY



| ID # | PART # | PART DESCRIPTION             | QUANTITY |    |
|------|--------|------------------------------|----------|----|
|      | 85363  | FUEL TANK ASSY B-SERIES      | 1        | EA |
| 1    | 85111  | FUEL TANK WELDMENT, B-SERIES | 1        | EA |
| 2    | 85570  | FUEL CAP, 1 ½ IN VENTED      | 1        | EA |
| 3    | 85362  | TUBE, FUEL PICKUP, B-SERIES  | 2        | EA |
| 4    | 85569  | FUEL GAUGE, 9 IN             | 1        | EA |
| 5    | 10297  | PLUG-GALV ½"                 | 1        | EA |



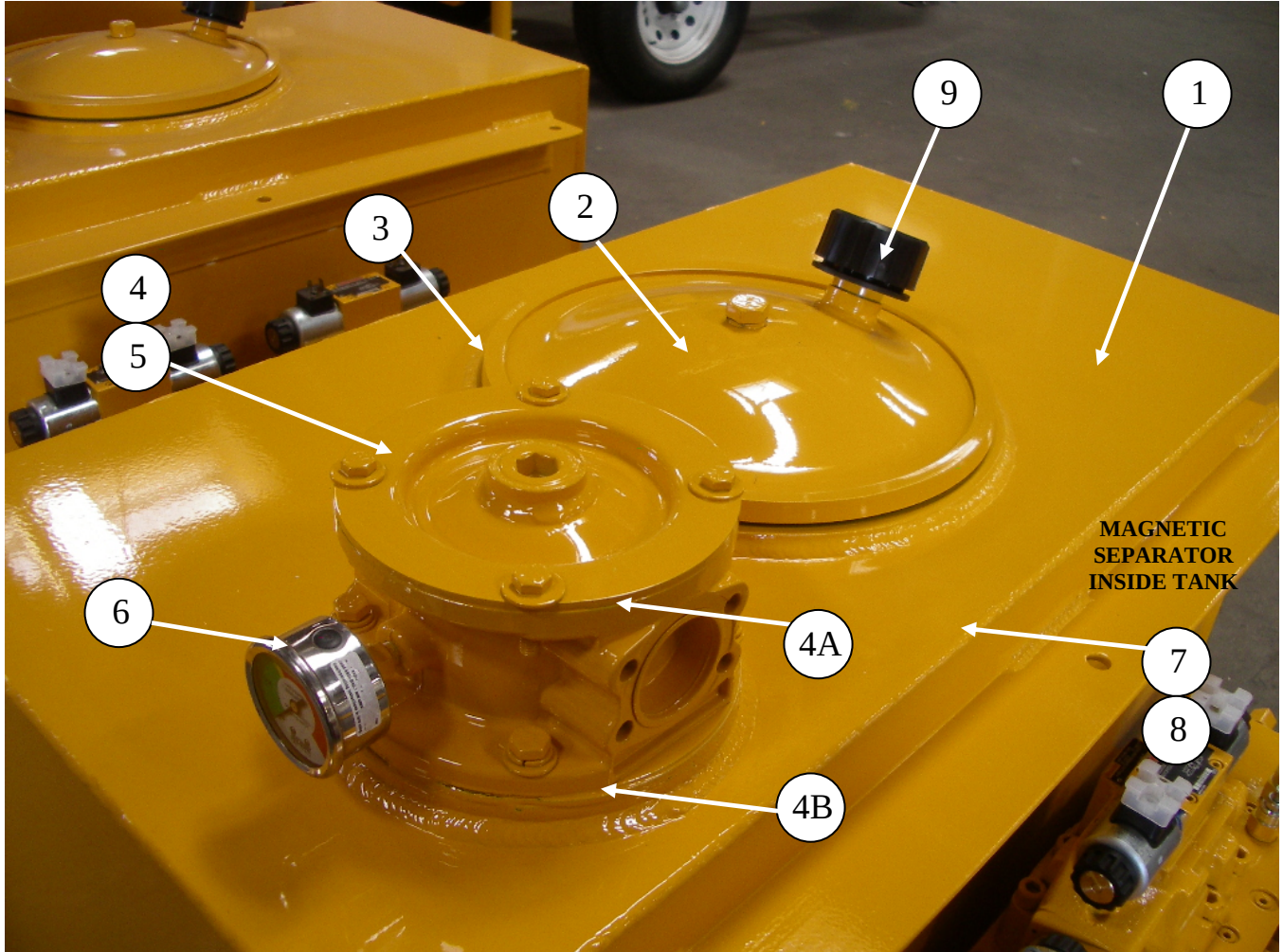


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PARTS

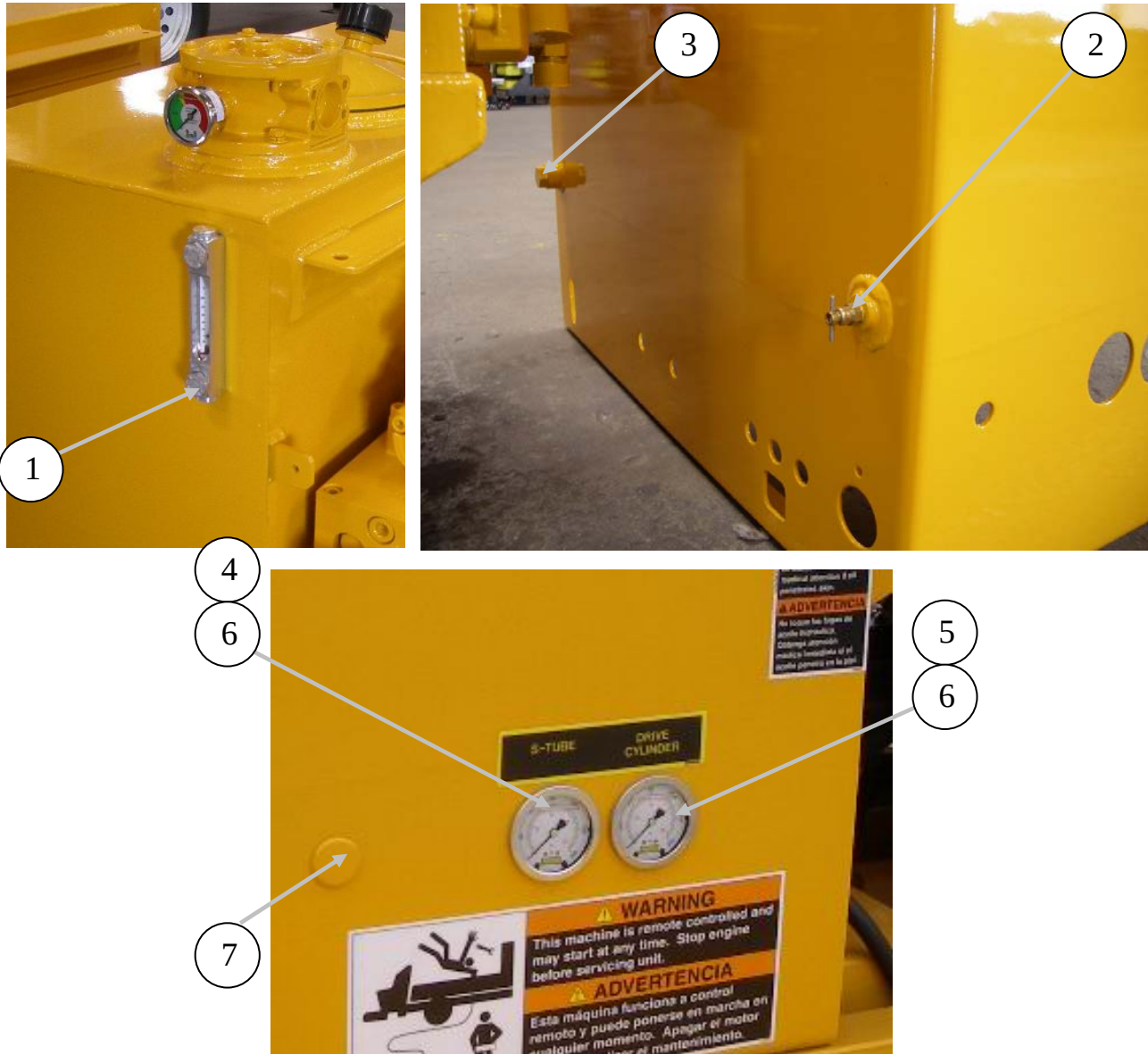
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## HYDRAULIC TANK ASSEMBLY



| ID # | PART #  | PART DESCRIPTION                 | QUANTITY |    |
|------|---------|----------------------------------|----------|----|
|      | 85361   | HYD TANK ASSY B-SERIES           | 1        | EA |
| 1    | 85102   | HYDRAULIC TANK WELDMNT, B-SERIES | 1        | EA |
| 2    | 85529   | ENDCOVER KIT, 12 IN W/DRAIN      | 1        | EA |
| 3    | 85867   | GASKET- END COVER 12"            | 1        | EA |
| 4    | 85282   | FILTER, RETURN, TANK MOUNTED     | 1        | EA |
| 4A   | BW10241 | SEAL KIT FOR 85282 FILTER RETURN | 1        | EA |
| 4B   | 85282-G | GASKET-CORK                      | 1        | EA |
| 5    | 85283   | FILTER ELEMENT, PN 85282 FILTER  | 1        | EA |
| 6    | 85575   | GAUGE, PN 85282 RETURN FILTER    | 1        | EA |
| 7    | 79247   | MAGNETIC SEPERATOR 1 1/4 " NPT   | 1        | EA |
| 8    | 800230  | MAGNETIC SEPARATOR, 3"NPT        | 1        | EA |
| 9    | 85537   | FILLER BREATHER, 3/4 NPT         | 1        | EA |

## HYDRAULIC TANK ASSEMBLY CONTINUED



| ID # | PART # | PART DESCRIPTION               | QUANTITY |     |
|------|--------|--------------------------------|----------|-----|
| 1    | 74509  | GAUGE-SIGHT/TEMPERATURE        | 1        | EA  |
| 2    | 801025 | DRAIN COCK, ¼ NPT              | 1        | EA  |
| 3    | BG-12  | ¾" SAE PLUG                    | 1        | EA  |
| 4    | 70366  | PRESSURE GAUGE, 3000 PSI/BAR   | 1        | EA  |
| 5    | 74562  | PRESSURE GAUGE, 6000 PSI/BAR   | 1        | EA  |
| 6    | 78594  | MINICHECK GAUGE ADAPTOR, ¼ NPT | 2        | EA  |
| 7    |        | HOFFMAN PLUG                   | 1        | A/R |



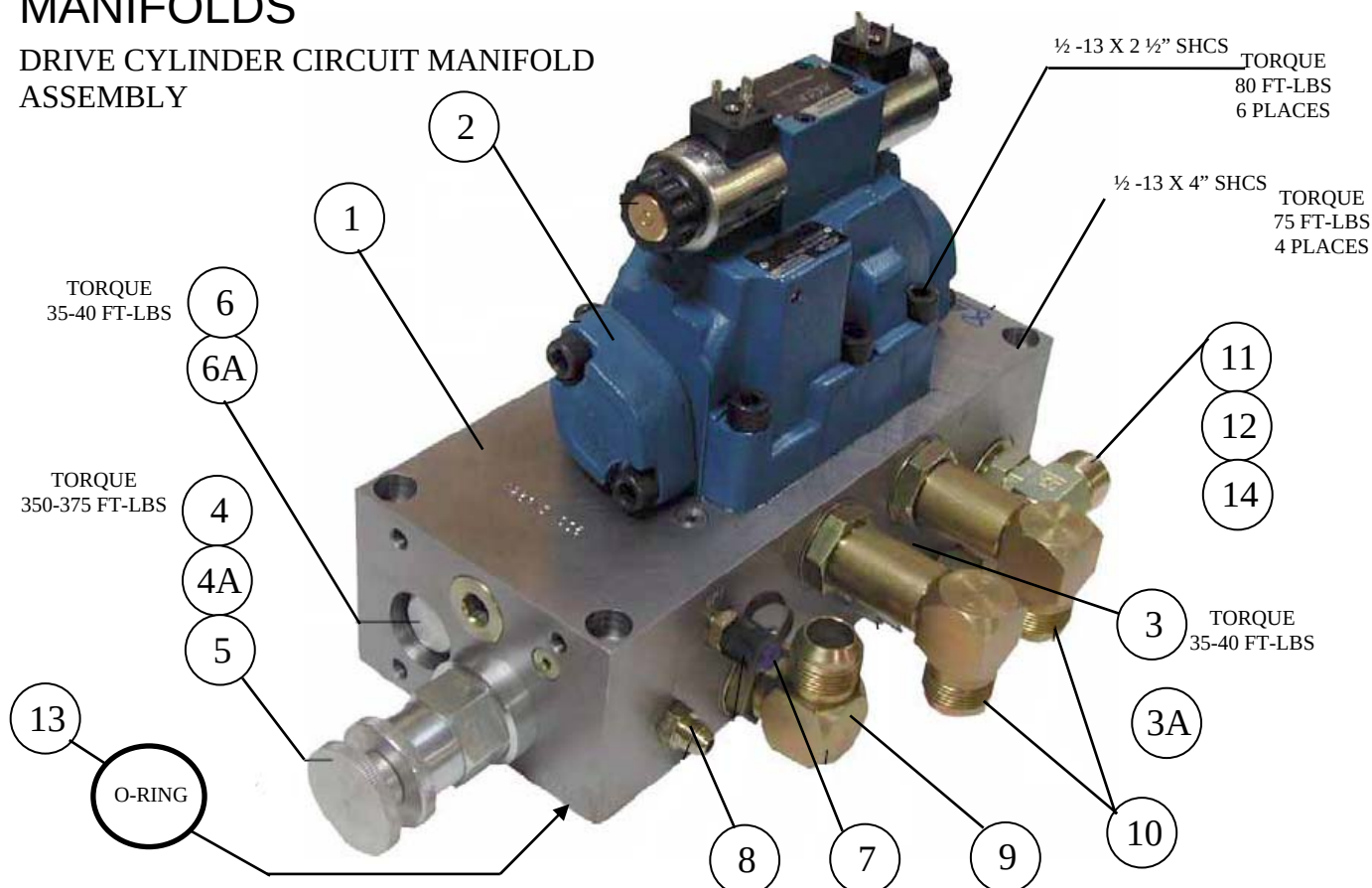
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## MANIFOLDS

### DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY



| ID # | PART #    | PART DESCRIPTION                    | QUANTITY |    |
|------|-----------|-------------------------------------|----------|----|
|      | 85248     | MANIFOLD, CYLINDER CIRCUIT ASSEMBLY | 1        | EA |
| 1    | 86820     | MANIFOLD, MACHINED CYLINDER CIRCUIT | 1        | EA |
| 2    | 85689     | SOLENOID VALVE, DRIVE CYLINDER      | 1        | EA |
| 3    | 85696     | RELIEF VALVE CARTRIDGE              | 1        | EA |
| 3A   | 85696-SK  | SEAL KIT                            |          |    |
| 4    | 85697     | FLOW CONTROL CARTRIDGE              | 1        | EA |
| 4A   | 85697-SK  | SEAL KIT                            |          |    |
| 5    | 86947     | KNOB KIT, ALUMINUM                  | 1        | EA |
| 6    | 85698     | CHECK VALVE CARTRIDGE               | 1        | EA |
| 6A   | 85698-SK  | SEAL KIT                            |          |    |
| 7    | 78593     | MINICHECK ADAPTOR, SAE 4            | 1        | EA |
| 8    | 86900-002 | ADAPTOR, MB-MJ-4-6                  | 1        | EA |
| 9    | 86728-023 | ELBOW, MB-MJ45-16-16                | 1        | EA |
| 10   | 86904-012 | ELBOW, MB-MJ90LL-16-16              | 2        | EA |
| 11   | 86945-001 | TEE, MJ-MB-MJT-16                   | 1        | EA |
| 12   | 86905-016 | ELBOW, MJ-FJX90-16-16               | 1        | EA |
| 13   | 86946     | O-RING #230 BUNA 90DUR              | 1        | EA |
| 14   | 86948-001 | REDUCER, JIC MJ-FJ-10-16            | 1        | EA |



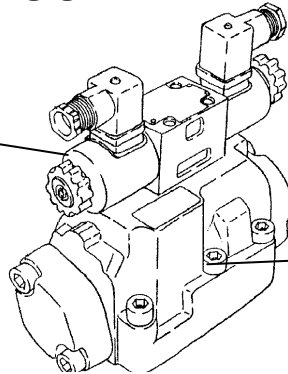
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## DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY CONT.

DRIVE CYLINDER  
PILOT SOLENOID  
VALVE



DRIVE CYLINDER VALVE  
ASSEMBLY COMPLETE  
**85689**

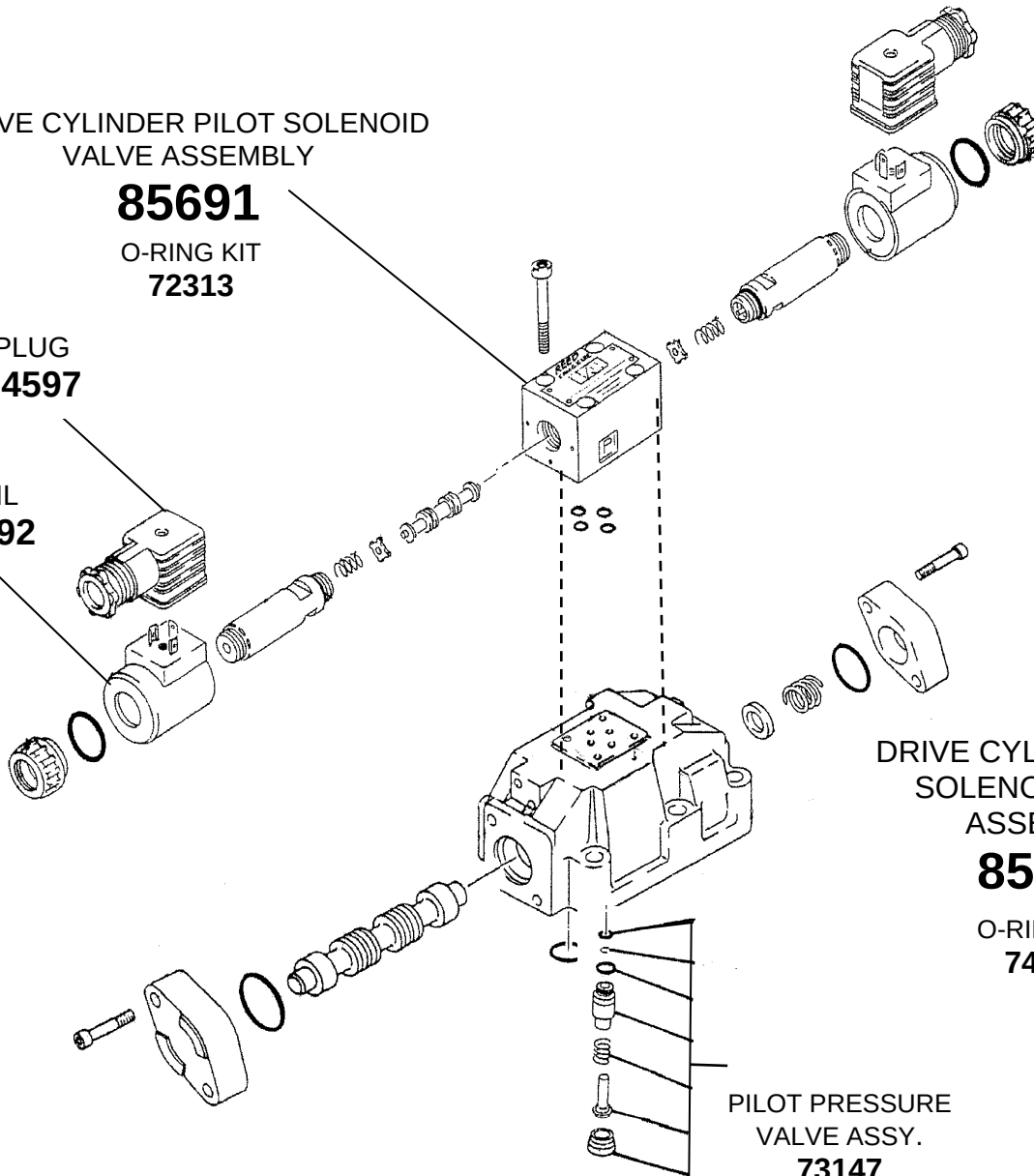
DRIVE CYLINDER  
MAIN VALVE

DRIVE CYLINDER PILOT SOLENOID  
VALVE ASSEMBLY

**85691**  
O-RING KIT  
**72313**

PLUG  
**74597**

COIL  
**85692**



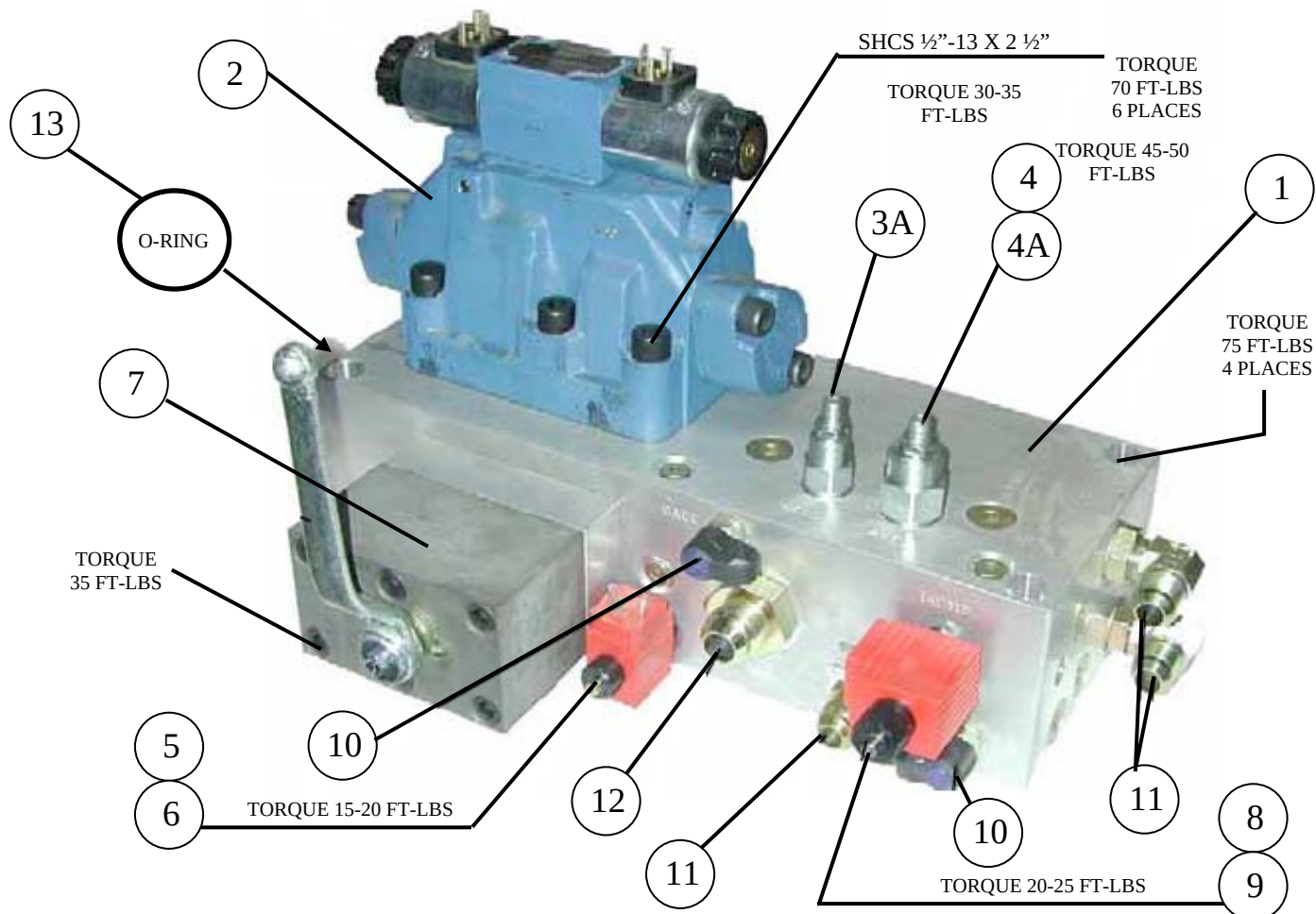
DRIVE CYLINDER MAIN  
SOLENOID VALVE  
ASSEMBLY  
**85690**

O-RING KIT  
**74994**

PILOT PRESSURE  
VALVE ASSY.  
**73147**



## S-TUBE CIRCUIT MANIFOLD ASSEMBLY



| ID # | PART #    | PART DESCRIPTION                      | QUANTITY |    |
|------|-----------|---------------------------------------|----------|----|
|      | 85249     | MANIFOLD, SWING TUBE CIRCUIT ASSEMBLY |          |    |
| 1    | 86821     | MANIFOLD, MACHINED S-TUBE CIRCUIT     | 1        | EA |
| 2    | 85693     | SOLENOID VALVE, S-TUBE SHIFT          | 1        | EA |
| 3    | 85704     | UNLOADER VALVE CARTRIDGE, (QCDB)      | 1        | EA |
| 3A   | 85704-SK  | SEAL KIT                              |          |    |
| 4    | 85703     | RELIEF VALVE CARTRIDGE, (RVEA)        | 1        | EA |
| 4A   | 85703-SK  | SEAL KIT                              |          |    |
| 5    | 87246     | SOLENOID VALVE CARTRIDGE, (12CHS)     | 1        | EA |
| 6    | 87247     | COIL, 12VDC,                          | 1        | EA |
| 7    | 85705     | BALL VALVE,                           | 1        | EA |
| 8    | 87248     | SOLENOID VALVE CARTRIDGE, (14CHS)     | 1        | EA |
| 9    | 87249     | COIL, 12V DC FOR PN-87248             | 1        | EA |
| 10   | 78593     | MINICHECK ADAPTOR, SAE                | 2        | EA |
| 11   | 86728-014 | ELBOW, MB-MJ90-10-10                  | 2        | EA |
| 12   | 86900-027 | ADAPTOR, MB-MJ-16-12                  | 1        | EA |
| 13   | 86946     | O-RING #230 BUNA 90DUR                | 1        | EA |





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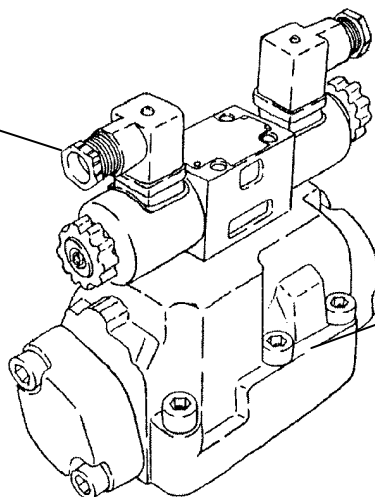
## S-TUBE CIRCUIT MANIFOLD ASSEMBLY CONT.

SWING TUBE  
PILOT SOLENOID  
VALVE

SWING TUBE VALVE  
ASSEMBLY COMPLETE

**85693**

SWING TUBE  
MAIN VALVE



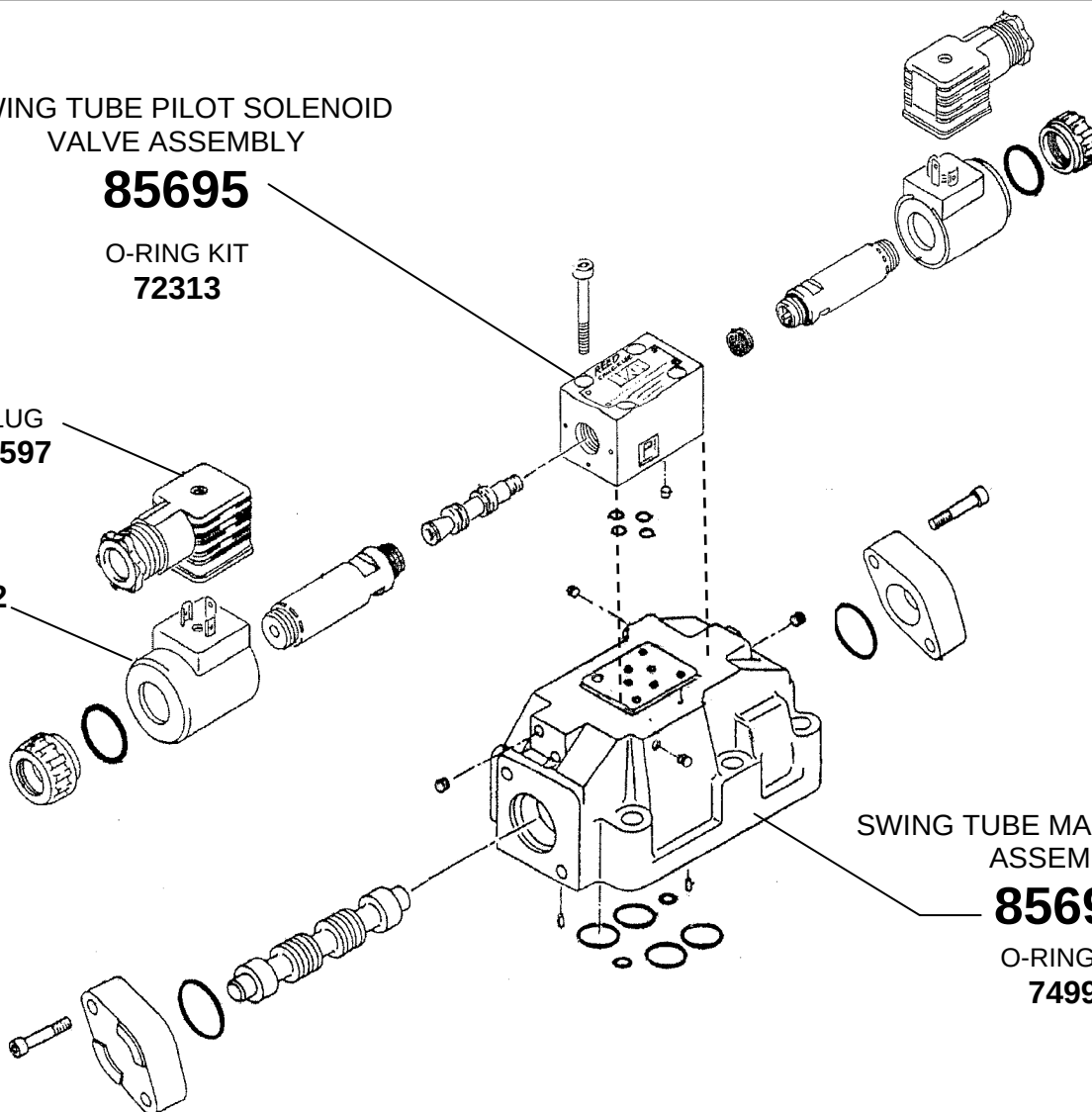
SWING TUBE PILOT SOLENOID  
VALVE ASSEMBLY

**85695**

O-RING KIT  
**72313**

PLUG  
**74597**

COIL  
**85692**

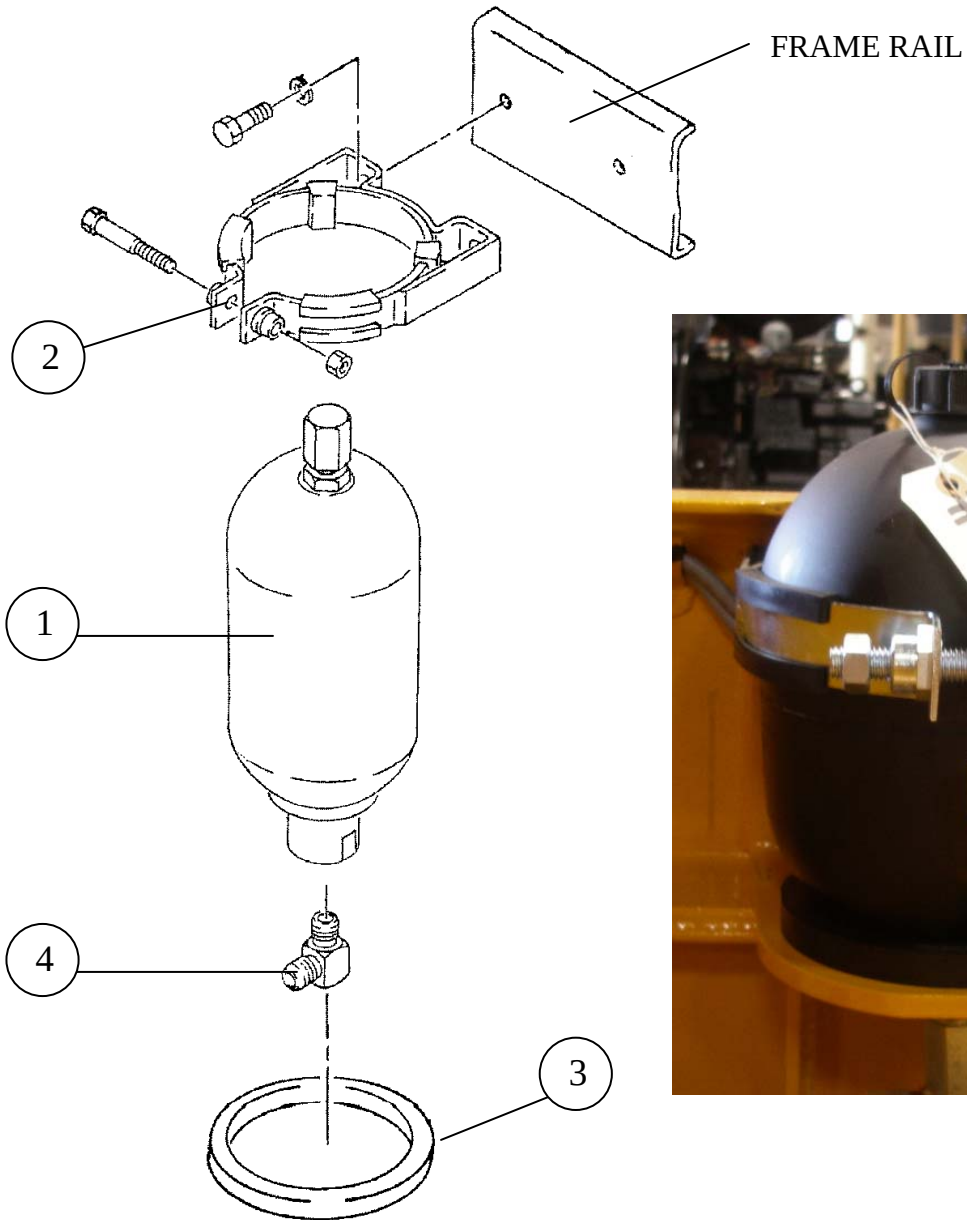


SWING TUBE MAIN SOLENOID  
ASSEMBLY

**85694**

O-RING KIT  
**74994**

## ACCUMULATOR ASSEMBLY



| ID # | PART #    | PART DESCRIPTION                   | QUANTITY |    |
|------|-----------|------------------------------------|----------|----|
| 1    | 71360     | ACCUMULATOR-3/4 GAL                | 1        | EA |
| 2    | 73171     | ACCUMULATOR BKT.W/CLOSING HARDWARE | 1        | EA |
| 3    | 801028    | GROMMET, ACCUMULATOR               | 1        | EA |
| 4    | 86904-009 | ELBOW, MB-MJ90LL-12-12             | 1        | EA |



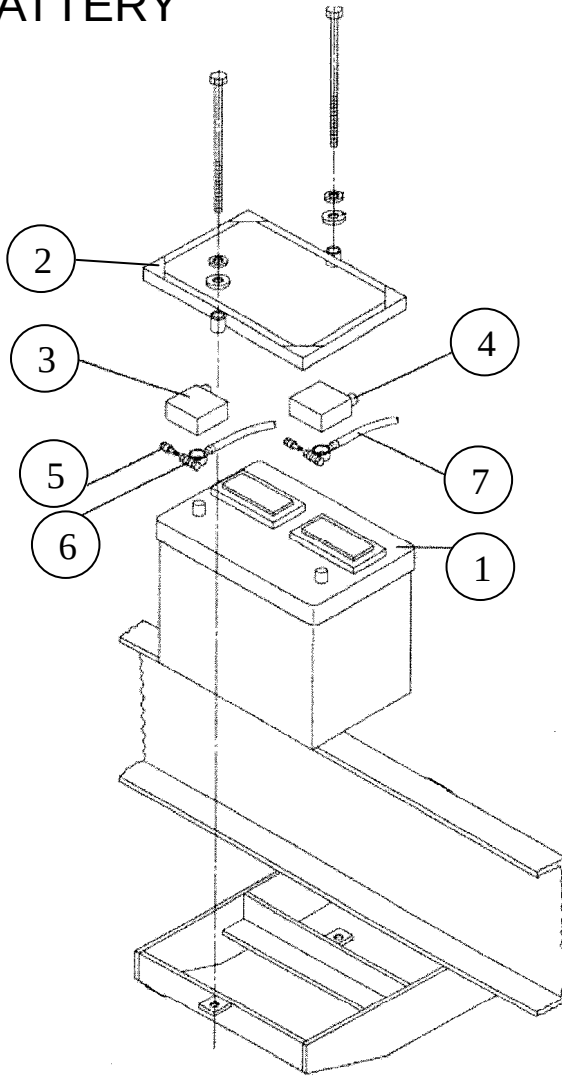
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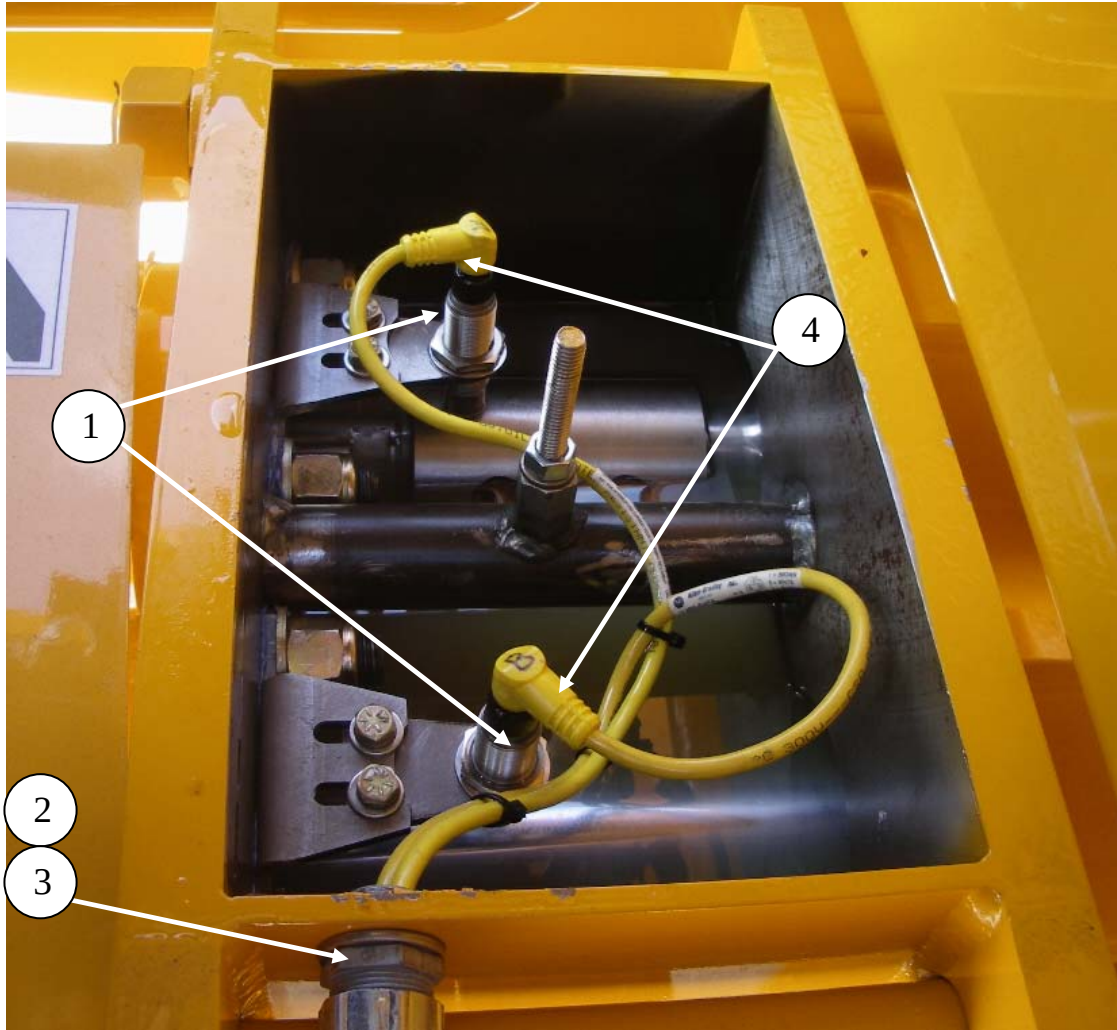
## ELECTRICAL GROUP

### BATTERY



| ID # | PART # | PART DESCRIPTION                    | QUANTITY |    |
|------|--------|-------------------------------------|----------|----|
|      | 87930  | ELECTRICAL GROUP B SER 2008 CUMMINS | 1        | EA |
| 1    | 77075  | BATTERY-12V 1000 CCA31              | 1        | EA |
| 2    | 72945  | BATTERY HOLD DOWN                   | 1        | EA |
| 3    | 87221  | INSULATOR, RIGHT ELBOW-RED          | 1        | EA |
| 4    | 87222  | INSULATOR, LEFT ELBOW-BLACK         | 1        | EA |
| 5    | 87223  | EXTENDER, TOP TERMINAL BOLT         | 2        | EA |
| 6    | 87732  | CABLE-43" BATTERY-RED 2/0           | 1        | EA |
| 7    | 87733  | CABLE-37" BATTERY-BLACK 2/0         | 1        | EA |

## PROXIMITY SWITCHES



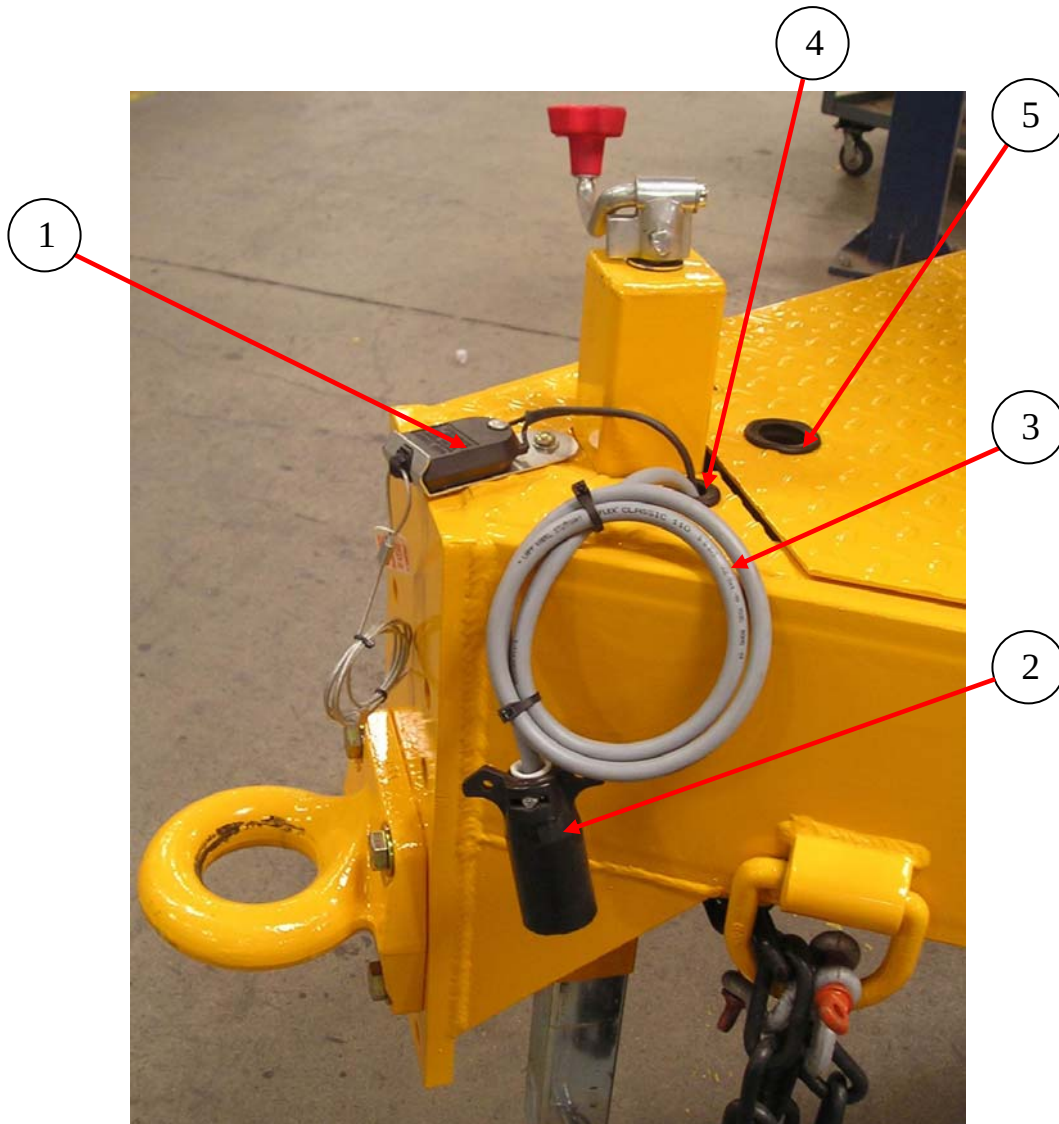
| ID # | PART # | PART DESCRIPTION                    | QUANTITY |    |
|------|--------|-------------------------------------|----------|----|
| 1    | 77998  | PROXIMITY SENSOR NPN FLUSH BOX MOUT | 2        | EA |
| 2    | 10522  | STRAIN RELIEF                       | 1        | EA |
| 3    | 10528  | NUT-1/2" BONDING TYPE LOCK          | 1        | EA |
| 4    | 77990  | CABLE, PROXIMITY SWITCH, 5M         | 2        | EA |





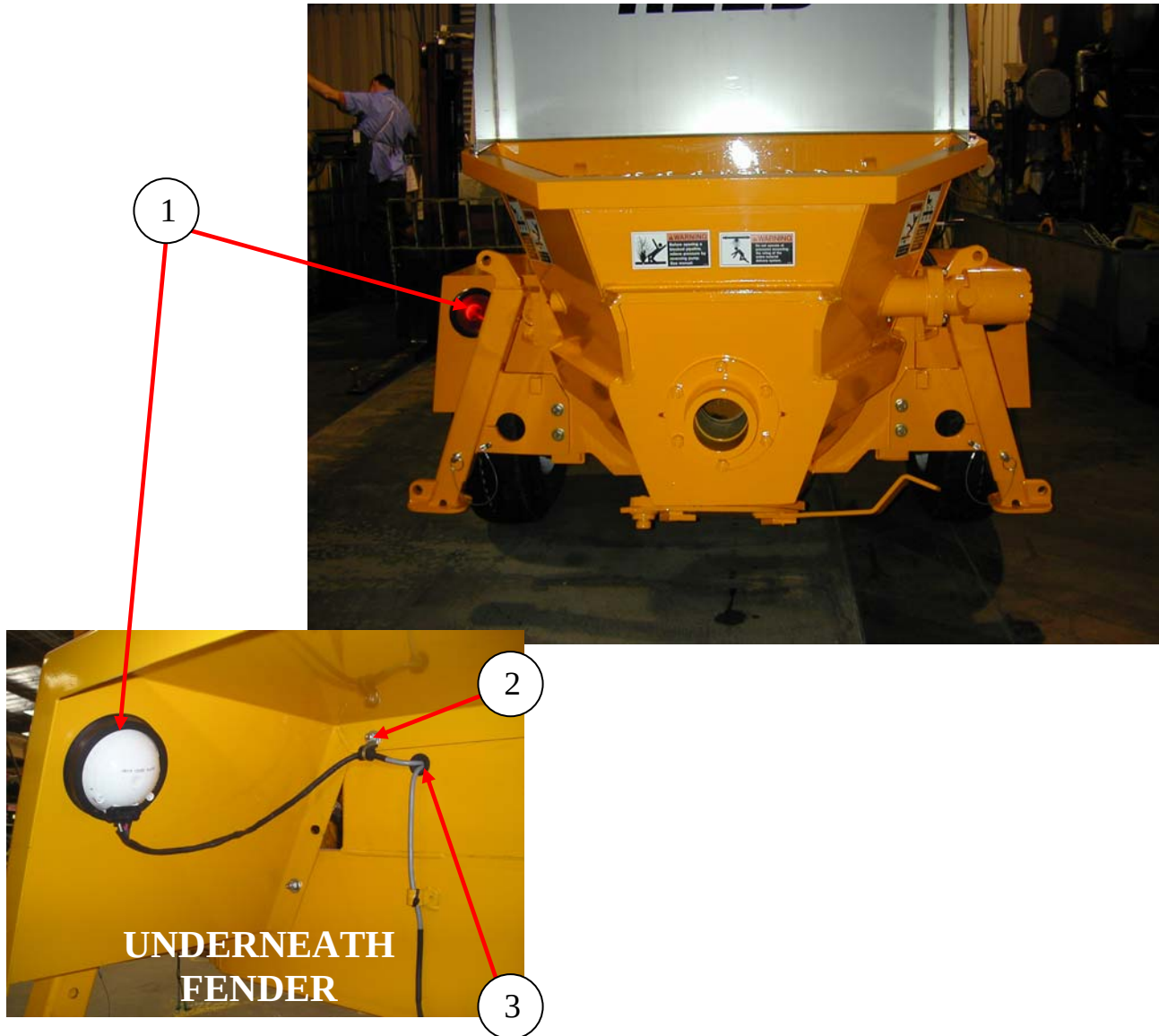


## TRAILER HARNESS AND BREAKAWAY



| ID # | PART # | PART DESCRIPTION          | QUANTITY |    |
|------|--------|---------------------------|----------|----|
| 1    | 77705  | BREAK-AWAY KIT            | 1        | EA |
| 2    | 86533  | TRAILER HARNESS- B-SERIES | 1        | EA |
| 3    | 86579  | TRAILER PLUG 7C FLAT PI   | 1        | EA |
| 4    | 72949  | GROMMET                   | 1        | EA |
| 5    | 72813  | GROMMET                   | 1        | EA |

## TAIL LIGHTS



| ID # | PART # | PART DESCRIPTION | QUANTITY |    |
|------|--------|------------------|----------|----|
| 1    | 72948  | TAIL LIGHT       | 2        | EA |
| 2    | 87665  | LOOM CLAMP 7/8"  | 2        | EA |
| 3    | 72949  | GROMMET          | 2        | EA |

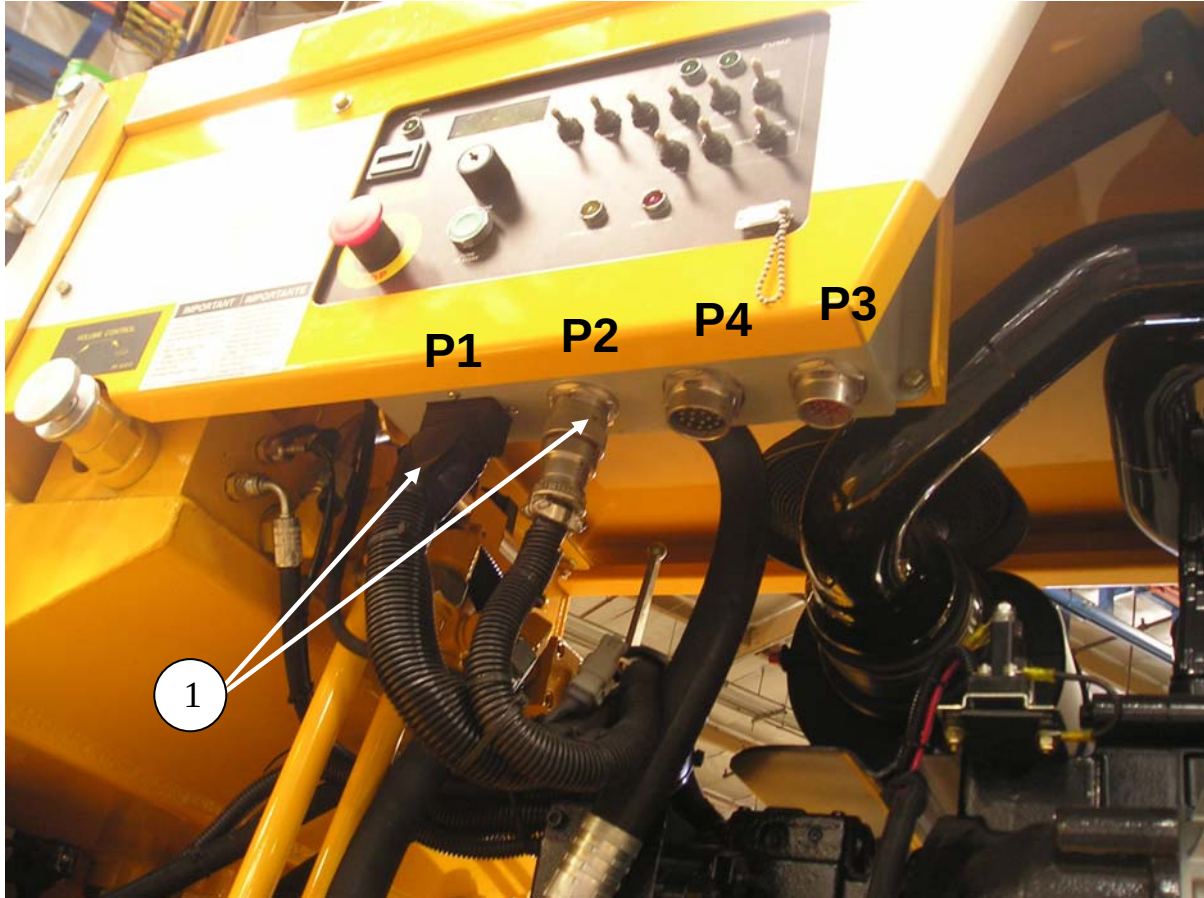


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## WIRING HARNESS



| ID # | PART #  | PART DESCRIPTION                    | QUANTITY |    |
|------|---------|-------------------------------------|----------|----|
| 1    | 87734-1 | WIRING HARNESS B SER HOPPER SAFETY  | 1        | EA |
|      | BW10145 | PLUG CONNECTOR                      | 1        | EA |
|      | BW10146 | BOOT, FOR BW10145 PLUG              | 1        | EA |
|      | BW10147 | PIN, FOR BW10145 PLUG               | 24       | EA |
|      | 87540   | CABLE SOLENOID VALVE, WITH DIN PLUG | 7        | EA |
|      | 77990   | CABLE, PROXIMITY SWITCH, 5M         | 3        | EA |
|      | 10522   | STRAIN RELIEF                       | 1        | EA |
|      | 87456   | PLUG CONNECTOR, 8 PIN               | 1        | EA |
|      | 87457   | PIN, FOR 87456 PLUG                 | 8        | EA |
|      | 85615   | CABLE, 14AWG-2C, PVC-GRY            | 15.5     | FT |
|      | 85617   | CABLE, 14AWG-4C, PVC-GRY            | 8.75     | FT |
|      | 77640   | DIODE, 1N4003                       | 1        | EA |
|      | BW10324 | WIRE, #8 SRML BLACK                 | 8.75     | FT |
|      | 85619   | CABLE, 16AWG-4C, PVC-GRY            | 8        | FT |
|      | 87669   | PIGTAIL HARNESS, FOR CUMMINS ALTERN | 1        | EA |





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## PARTS

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### B-SERIES CONTROL BOX



| ID # | PART #    | PART DESCRIPTION                          | QUANTITY |    |
|------|-----------|-------------------------------------------|----------|----|
|      | 87346-2   | CONTROL BOX, REV-F                        | 1        | EA |
| 1    | BW10372   | SW,TOGGLE, (ON-OFF-ON) VIBRATOR           | 1        | EA |
| 2    | BW10207   | SW,TOGGLE, (ON-OFF) PUMP ON/OFF & FWD/REV | 2        | EA |
| 3    | BW10223   | SW,TOGGLE, (ON-ON) LOCAL/REMOTE           | 1        | EA |
| 4    | BW10206   | SW,TOGGLE,(ON-OFF) STROKE CHANGE& HORN    | 2        | EA |
| 5    | BW10205   | SW,TOGGLE,(ON-OFF-ON) RPM+/- & VOLUME+/-  | 2        | EA |
| 6    | BW10361   | SW, SEALING BOOT                          | 9        | EA |
| 7    | BW10208   | MUSHROOM HEAD MAINTANED BUTT.             | 1        | EA |
| 8    | BW10209   | E-STOP LIGHT(POWER SUPPLY)                | 1        | EA |
| 9    | BW10210   | NC CONTACT BLOCK                          | 1        | EA |
| 10   | BW10211   | LGT, WL-41047MINI RED 15                  | 1        | EA |
| 11   | 87952     | SW, (FAST CHANGE)                         | 1        | EA |
| 12   | BW10355   | SW, PB GRN FLUSH (ENG START)              | 1        | EA |
| 13   | BW10354   | SW, KEYSWITCH BLK                         | 1        | EA |
| 13A  | BW10204-1 | KEY ONLY                                  | 2        | EA |
| 14   | 88017     | SW, CONTACT BLOCK N.O. (SYS ON)           | 1        | EA |
| 15   | BW10212   | MINI HOURMETER                            | 1        | EA |
| 16   | 87346-LCD | DISPLAY,LCD 20CX4L W/BACKLIT              | 1        | EA |
| 17   | BW10369   | LED, PILOT LIGHT, (GRN)                   | 3        | EA |
| 18   | BW10370   | LED, PILOT LIGHT, (RED)                   | 1        | EA |
| 19   | BW10371   | LED, PILOT LIGHT, (AMBER)                 | 1        | EA |
| 20   | 88017     | SW, CONTACT BLOCK N.O.                    | 2        | EA |

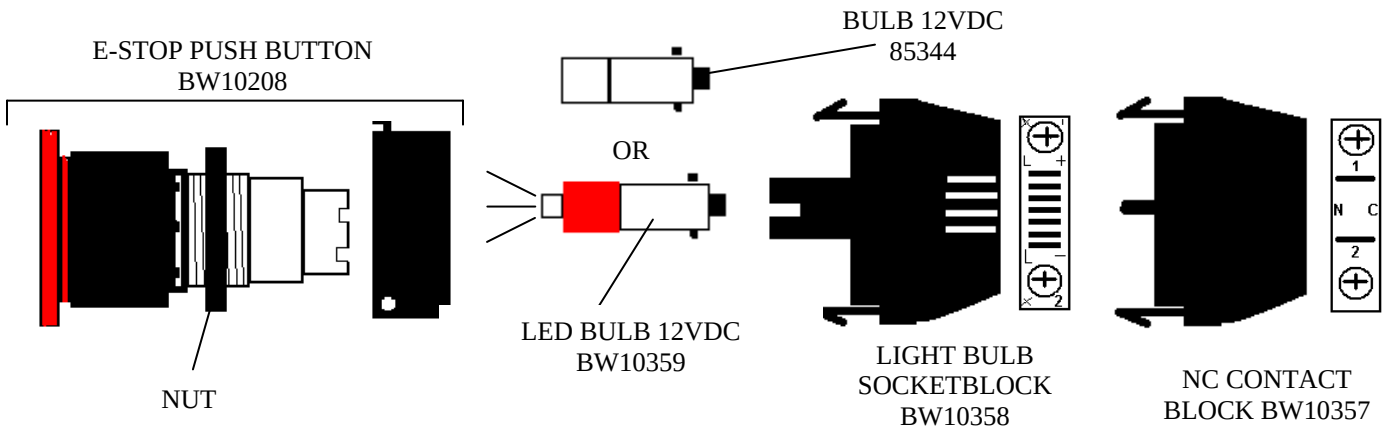
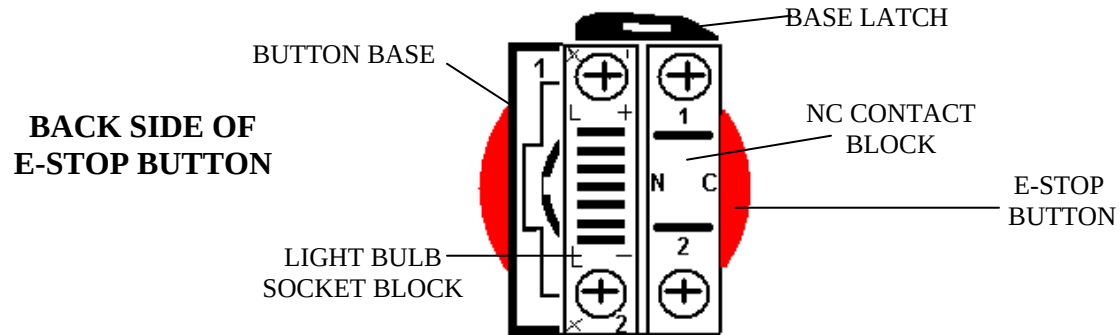


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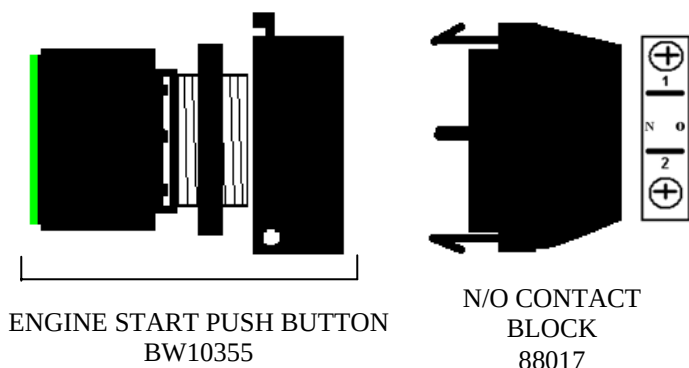
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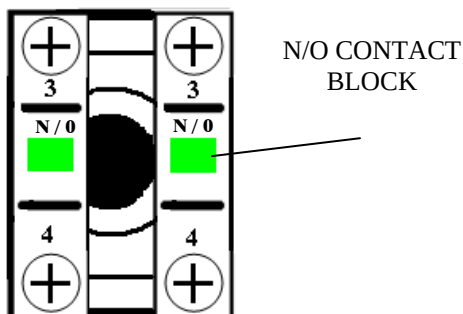
## CONTACT BLOCKS



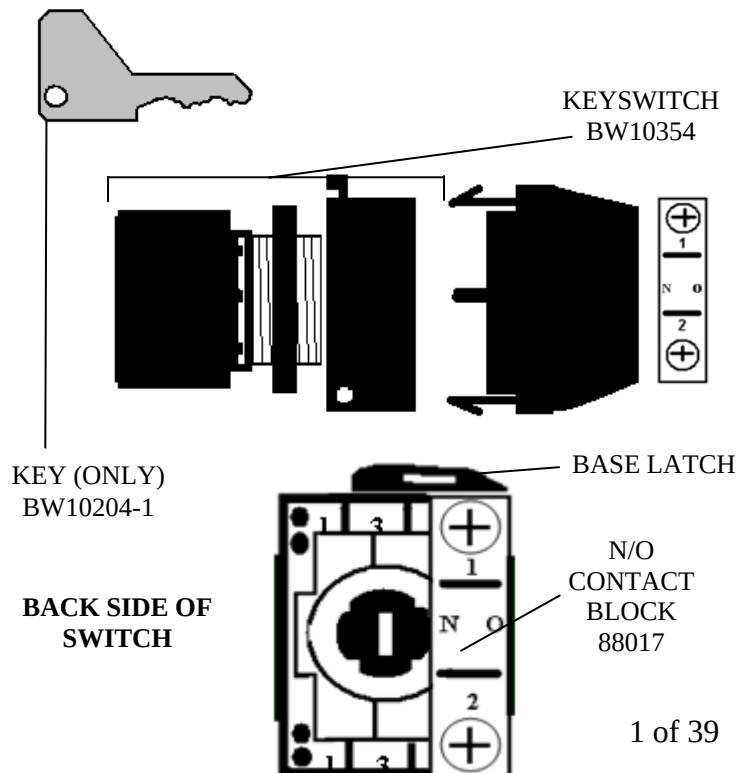
## ENGINE START BUTTON ASSEMBLY



BACK SIDE OF SWITCH



## SYSTEM ON BUTTON ASSEMBLY





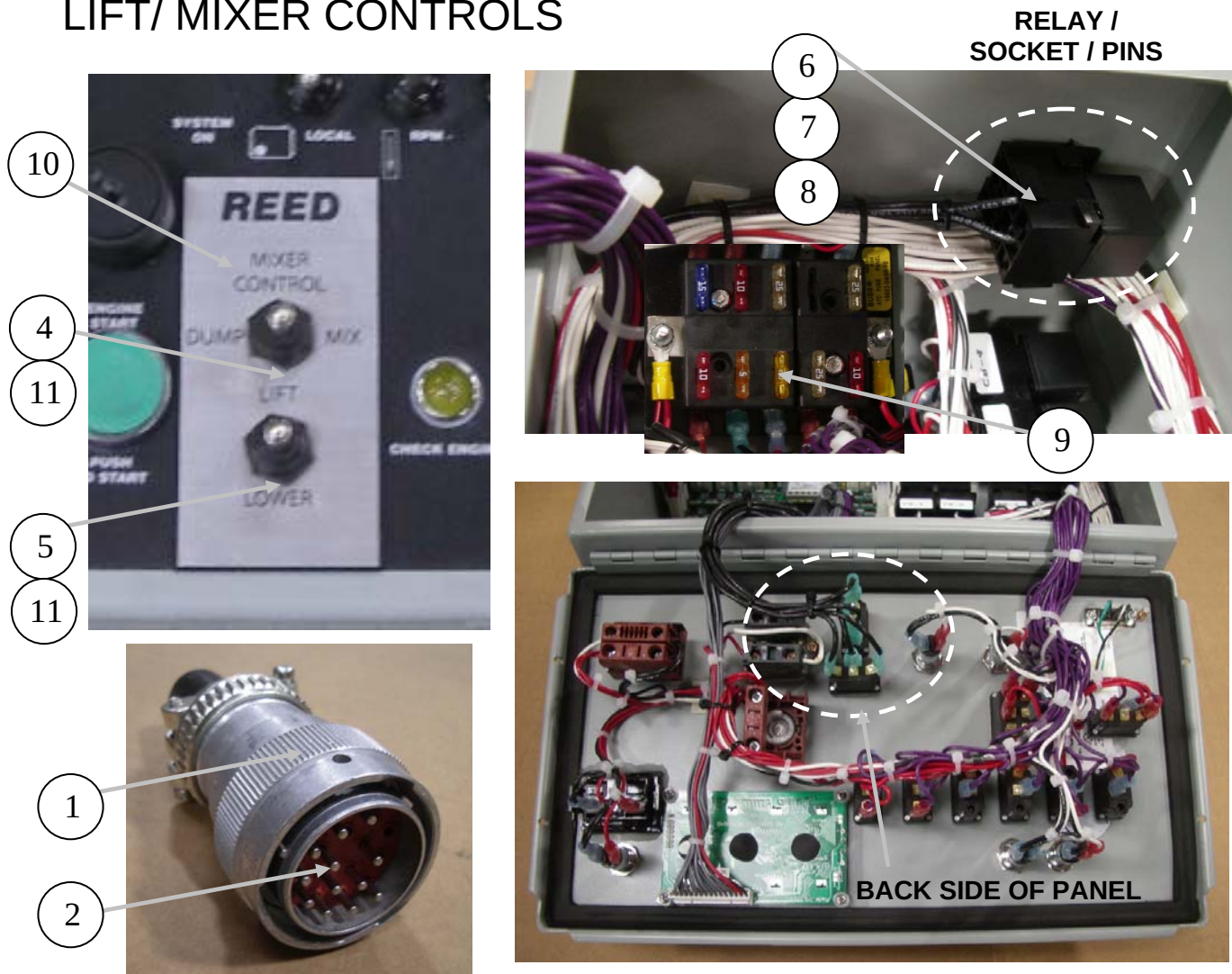


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### LIFT/ MIXER CONTROLS



| ID # | PART #  | PART DESCRIPTION              | QUANTITY |    |
|------|---------|-------------------------------|----------|----|
|      | 87909   | ELECTRICAL GROUP LIFT MIXER   |          | EA |
| 1    | 87806   | PLUG CONNECTOR, 16 PIN        | 1        |    |
| 2    | 87807   | PIN MALE, FOR 87806 PLUG      | 16       | EA |
| 3    | 85727   | CABLE, 16 AWG-3C, PVC-GRY     | 24       | FT |
| 4    | BW10372 | SWITCH, 3 POS MAINTAINED      | 1        | EA |
| 5    | BW10205 | SWITCH, 3 POSITION MOM/SPDT   | 1        | EA |
| 6    | BW10222 | RELAY, DIODE SUPPRESS         | 1        | EA |
| 7    | BW10224 | CONNECTOR, RELAY SOCKET       | 1        | EA |
| 8    | 72927   | WIRING PIN                    | 4        | EA |
| 9    | 90392   | FUSE, ATO 5                   | 1        | EA |
| 10   | 87908   | LOGO PLATE, LIFT MIX CONTROLS | 1        | EA |
| 11   | BW10361 | BOOT TOGGLE SWITCH            | 2        | EA |

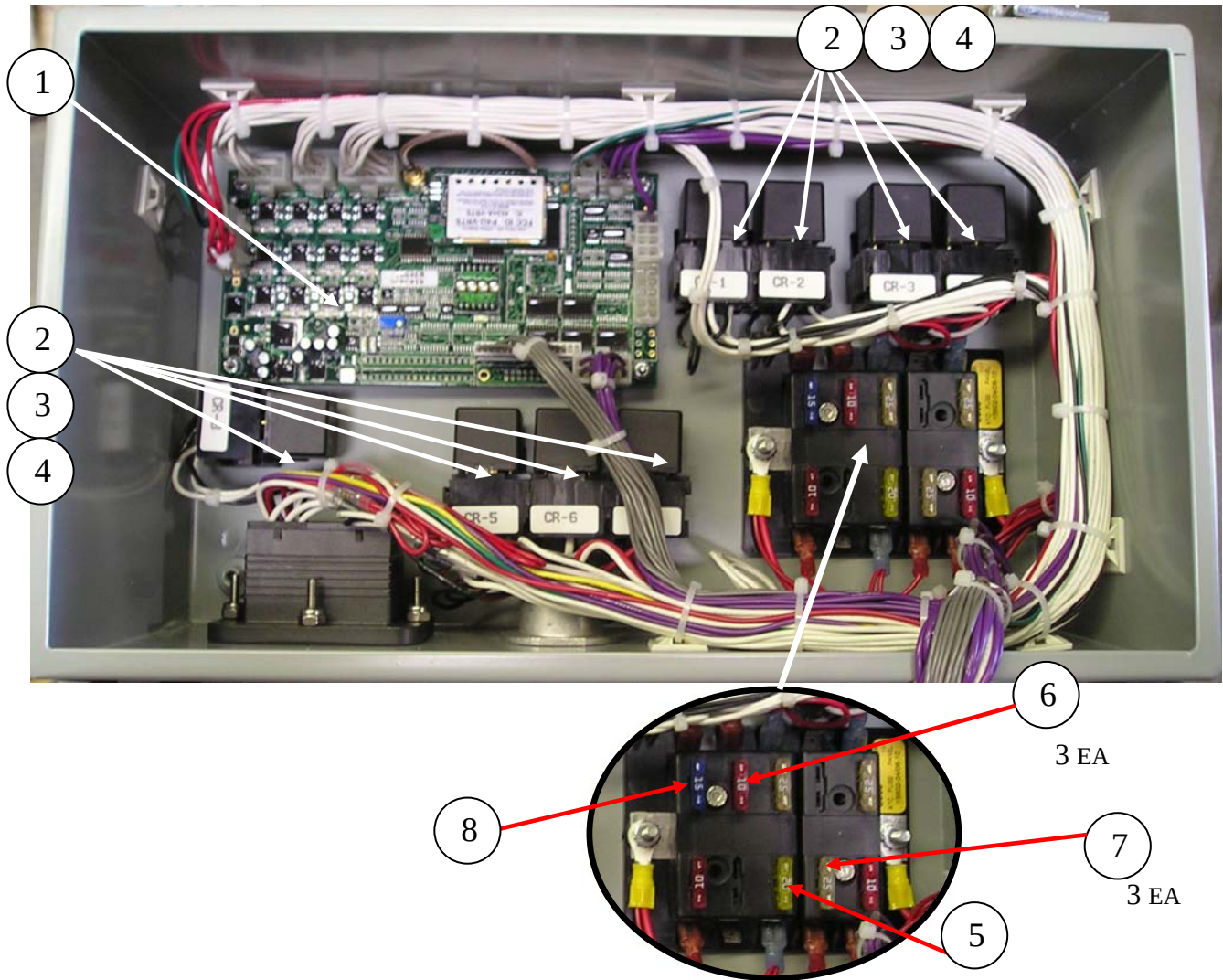


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## RELAYS AND FUSES



| ID # | PART #      | PART DESCRIPTION       | QUANTITY |    |
|------|-------------|------------------------|----------|----|
| 1    | 87346-BOARD | CONTROL BOARD          | 1        | EA |
| 2    | 87970       | RELAY, DIODE SUPRESSED | 8        | EA |
| 3    | 72927       | RELAY, PINS            | 32       | EA |
| 4    | BW10224     | SOCKET,RELAY           | 8        | EA |
| 5    | 800448      | FUSE, 20A ATO          | 1        | EA |
| 6    | 800449      | FUSE, 10A ATO          | 3        | EA |
| 7    | 800447      | FUSE, 25A ATO          | 3        | EA |
| 8    | 90391       | FUSE, 15A ATO          | 1        | EA |





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## PARTS

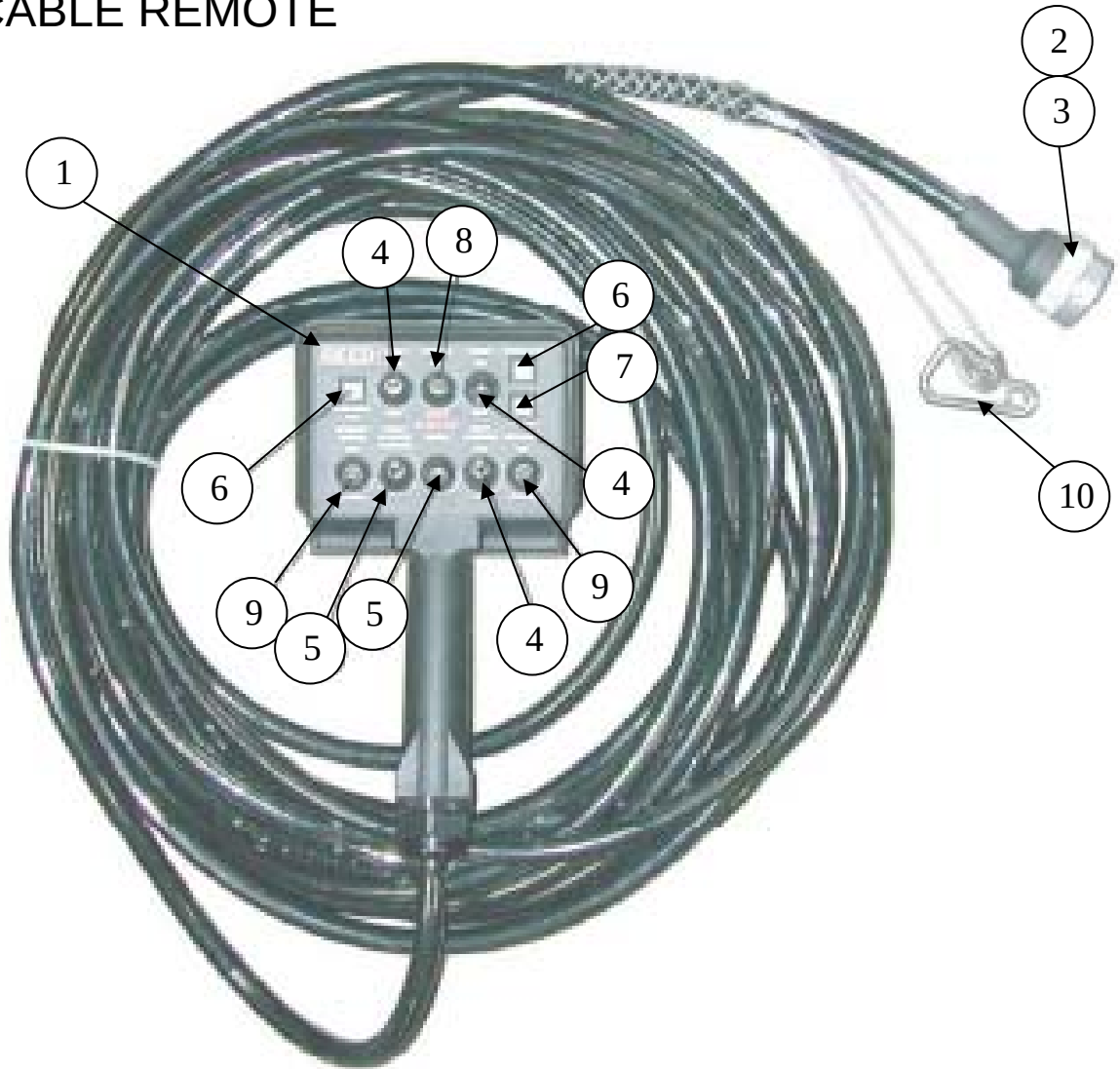
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## CONNECTORS



| ID # | PART #  | PART DESCRIPTION                       | QUANTITY |    |
|------|---------|----------------------------------------|----------|----|
| 1    | BW10217 | CONN,DRC12-24PA ( <b>P1</b> )          | 1        | EA |
| 2    | BW10220 | CONN,DRC24-GASKET                      | 1        | EA |
| 3    | BW10221 | CONN, DEUTSCH PINS                     | 24       | EA |
|      |         |                                        |          |    |
| 4    |         | CONN,HD34-18-08PN ( <b>P2</b> )        | 1        | EA |
| 5    | 87807   | DEUTSCH PINS, MALE                     | 8        | EA |
|      |         |                                        |          |    |
| 6    | 87806   | CONN, 10-11-2163, 16 PIN ( <b>P4</b> ) | 1        | EA |
| 7    | 87808   | PINS, FEMALE                           | 16       | EA |
|      |         |                                        |          |    |
| 8    |         | CONN,HD34-18-14PN ( <b>P3</b> )        | 1        | EA |
| 9    | BW10221 | CONN, DEUTSCH PINS                     | 14       | EA |

## 50 FT CABLE REMOTE



| ID # | PART #  | PART DESCRIPTION                                      | QUANTITY |    |
|------|---------|-------------------------------------------------------|----------|----|
| 1    | 87347-1 | REMOTE CONTROL, 87346 REV-D & UP                      | 1        | EA |
| 2    | 87915   | CONNECTOR, 87347-1 CABLE REMOTE                       | 1        | EA |
| 3    | BW10147 | PINS (FEMALE)                                         | 14       | EA |
| 4    | BW10207 | SW,TOGGLE, (ON-OFF) PUMP ON/OFF & FWD/REV FAST CHANGE | 3        | EA |
| 5    | BW10206 | SW,TOGGLE,(ON-OFF) HORN & STROKE CHANGE               | 2        | EA |
| 6    | 88170   | LED, CONTROL ON (GREEN)                               | 2        | EA |
| 7    | 88171   | LED, CONTROL ON (RED)                                 | 1        | EA |
| 8    | BW10223 | SW, POWER ON/ OFF                                     | 1        | EA |
| 9    | BW10205 | SW,TOGGLE,(ON-OFF-ON) RPM+/- & VOLUME+/-              | 2        | EA |
| 10   | 87875   | SPRING SNAP                                           | 1        | EA |
| REF  | BW10361 | SW, SEALING BOOT                                      | 8        | EA |



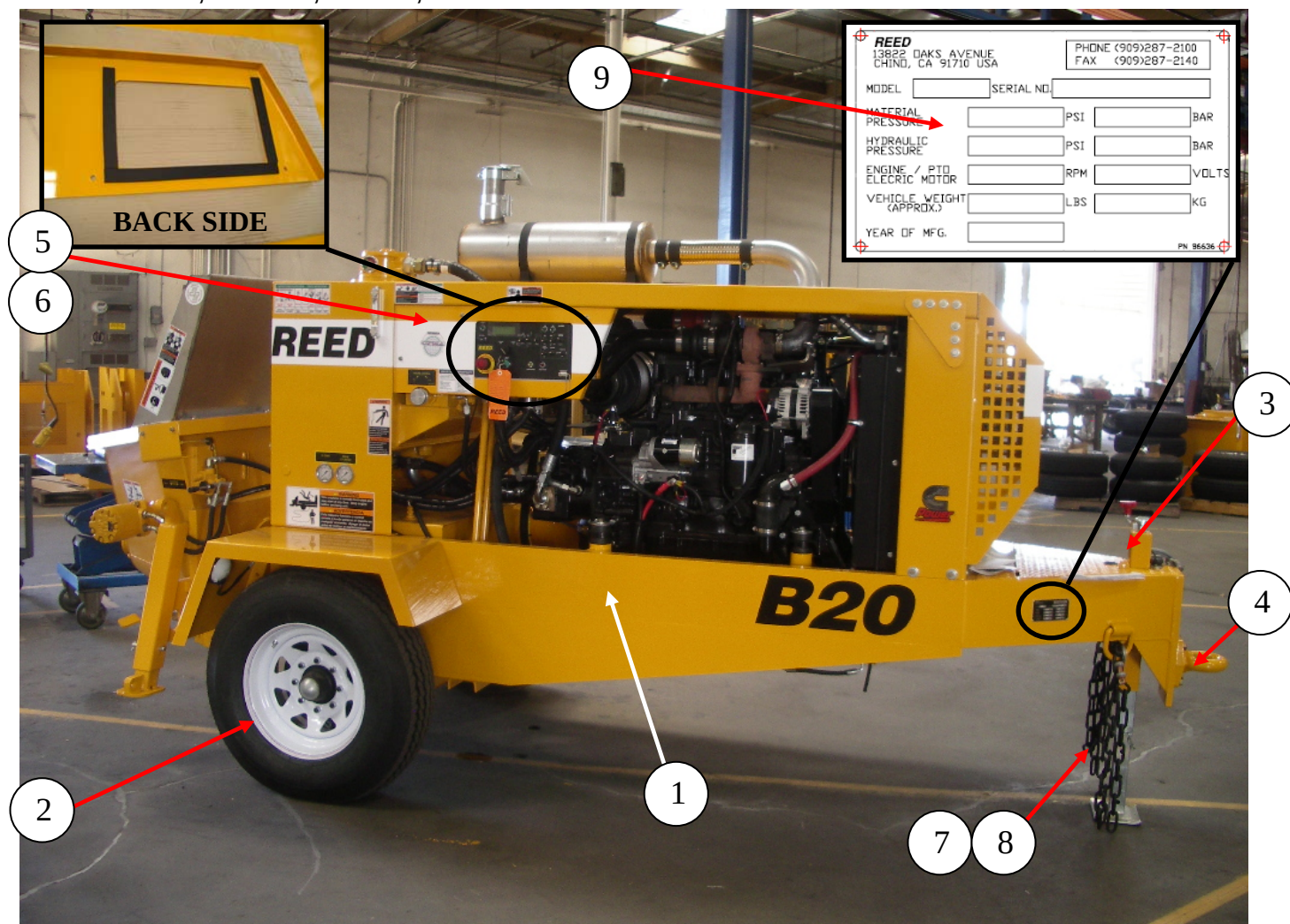
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## FRAME INSTALLATION

### FRAME, TIRES, JACK, AND TOW EYE



| ID # | PART # | PART DESCRIPTION                    | QUANTITY |    |
|------|--------|-------------------------------------|----------|----|
|      | 87729  | FRAME ASSY B SER, 2007 W/CUMMINS    | 1        | EA |
| 1    | 87728  | FRAME WELDMENT B SER 2007 CUMMINS   | 1        | EA |
| 2    | 85423  | TIRE & WHEEL ASSY -215/75R16.5 H    | 2        | EA |
| 3    | 85527  | JACK WELDMENT                       | 1        | EA |
| 4    | 87037  | DRAW BAR                            | 1        | EA |
| 5    | 87449  | COVER CONTROL BOX, PAINTED          | 1        | EA |
| 6    | 13257  | WEATHERSTRIP, RUBBER, 5/32 X 1      | 30       | IN |
| 7    | 86730  | CHAIN-3/8 PROOF COIL GR 70 PHOSPATE | 5.5      | FT |
| 8    | 87085  | SHACKLE ANCHOR, SCREW PIN, 1/2 6600 | 4        | EA |
| 9    | 86636  | SERIAL NUMBER PLATE (BLANK)         | 1        | EA |



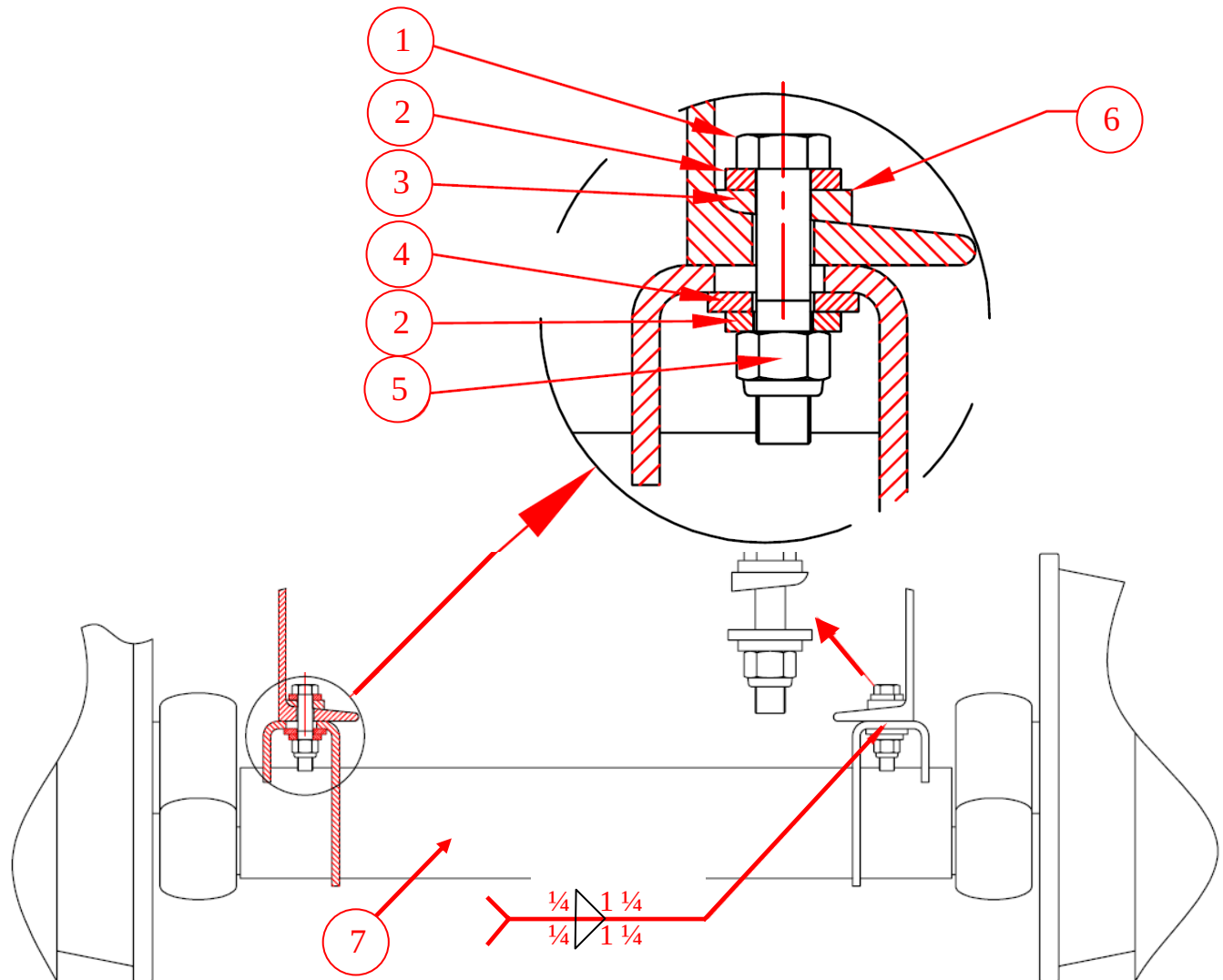


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## 9000LB AXLE MOUNTING ASSEMBLY



| ID # | PART # | PART DESCRIPTION                         | QUANTITY |    |
|------|--------|------------------------------------------|----------|----|
|      | 87542  | AXLE MOUNTING HARDWARE KIT               | 1        | EA |
| 1    |        | 1/2" -20 X 2.5 HHCS GR8                  | 4        | EA |
| 2    |        | 1/2" SAE WASHER                          | 8        | EA |
| 3    |        | 1/2" USE WASHER                          | 4        | EA |
| 4    |        | 1/2" SAE WASHER                          | 4        | EA |
| 5    |        | 1/2" - 20 LOCK NUT                       | 4        | EA |
| 6    |        | 1/2" BEVELED WASHER                      | 4        | EA |
| 7    | 85424  | AXLE, TORSION, 9000 LB 8 on 6.50 (AL-KO) | 1        | EA |

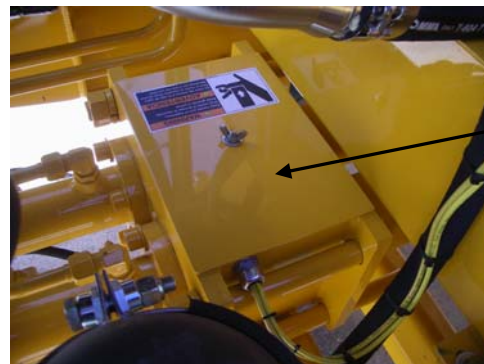
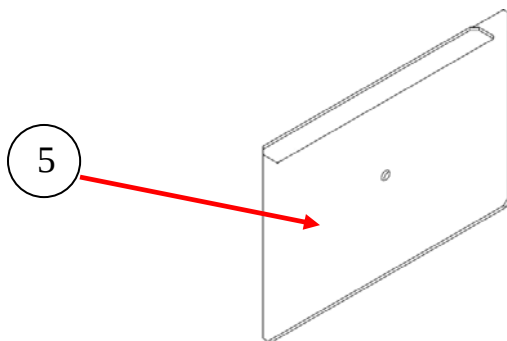


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## HOOD AND COVERS



**FLUSH  
BOX**

| ID # | PART #  | PART DESCRIPTION                         | QUANTITY |    |
|------|---------|------------------------------------------|----------|----|
| 1    | 87737   | COVER TOP, B SER CUMMINS PAINTED         | 1        | EA |
| 2    | 87681   | COVER FRONT WELD, B SER CUM PAINTED      | 1        | EA |
| 3    | 87647   | GUSSET ENGINE COVER PAINTED              | 2        | EA |
| 4    | 85714-1 | SPLASH GUARD, B-20 W/HOPPER SAFETY GRATE | 1        | EA |
| 5    | 71933   | LID, FLUSHBOX                            | 1        | EA |



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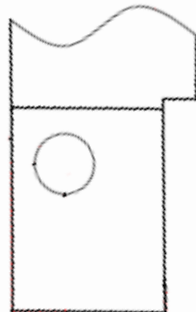
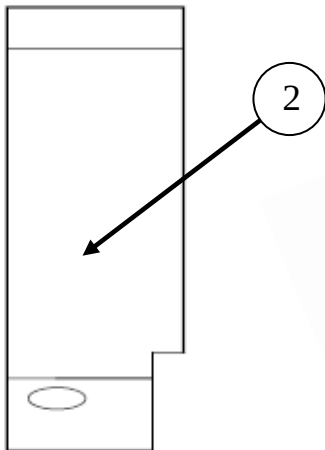
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## FENDERS

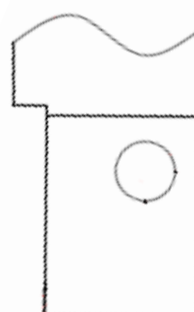
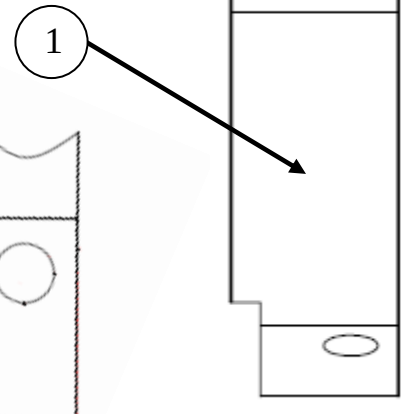


**TOP  
VIEW**



**REAR  
VIEW**

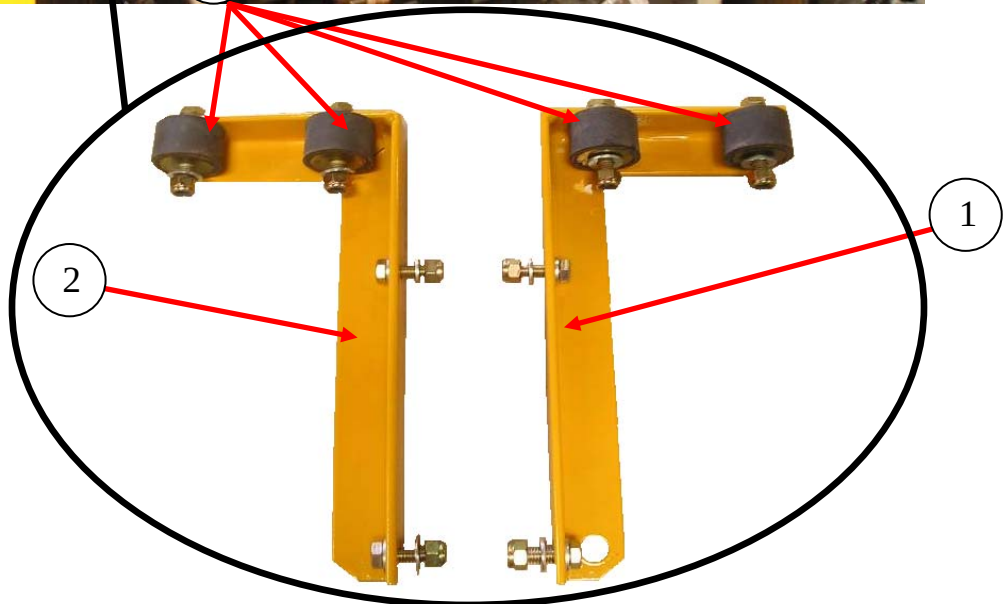
**TOP  
VIEW**



**REAR  
VIEW**

| ID # | PART # | PART DESCRIPTION     | QUANTITY |    |
|------|--------|----------------------|----------|----|
| 1    | 85934  | FENDER, RH, B SERIES | 1        | EA |
| 2    | 85935  | FENDER, LH, B SERIES | 1        | EA |

## CONTROL BOX MOUNT



| ID # | PART # | PART DESCRIPTION           | QUANTITY |    |
|------|--------|----------------------------|----------|----|
| 1    | 87397  | ANGLE CONTROL BOX MOUNT RH | 1        | EA |
| 2    | 87398  | ANGLE CONTROL BOX MOUNT LH | 1        | EA |
| 3    | 73748  | BUMPER                     | 4        | EA |
| 4    | 800347 | HORN, 12V                  | 1        | EA |



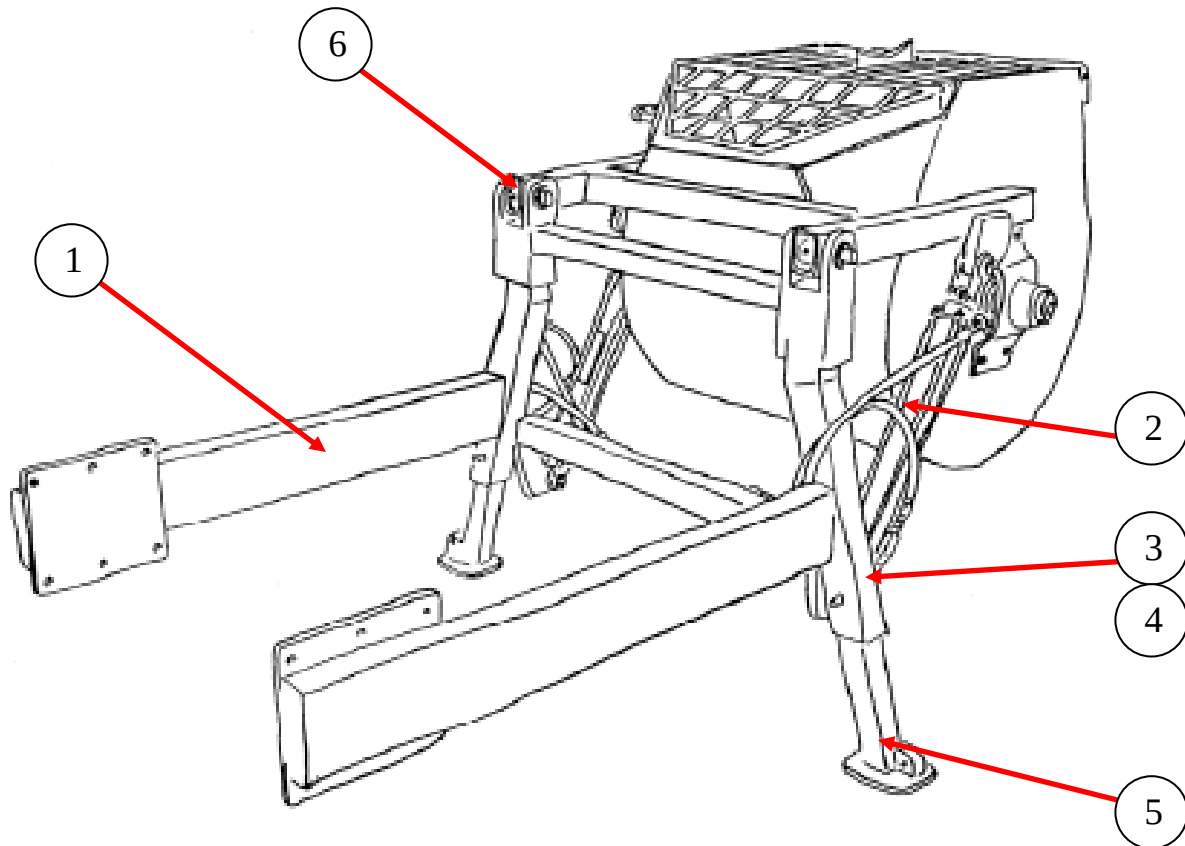


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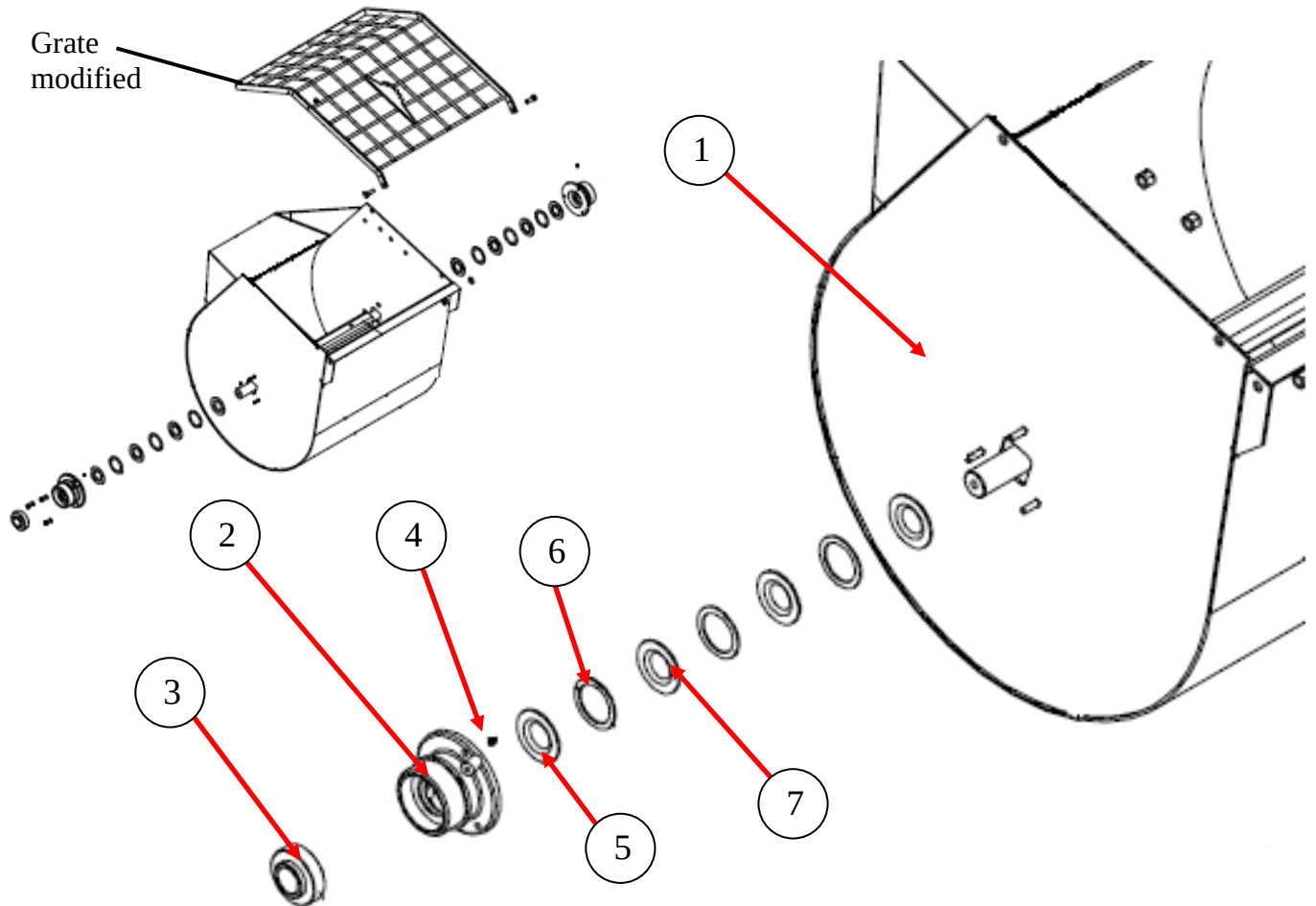
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## LIFT MIXER ASSEMBLY



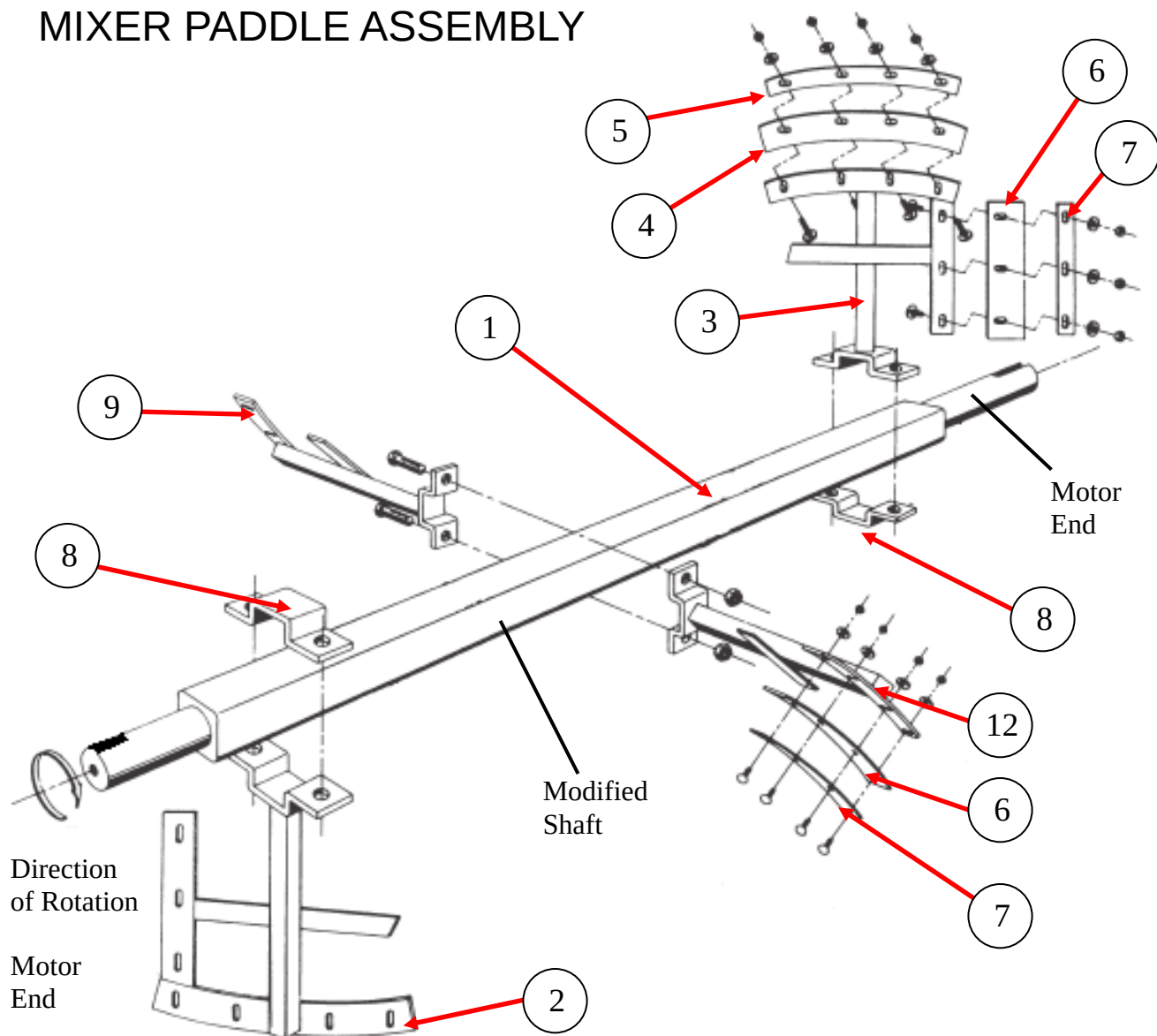
| ID # | PART # | PART DESCRIPTION                          | QUANTITY |    |
|------|--------|-------------------------------------------|----------|----|
| 1    | 88113  | MIXER WELDMENT STONE, DUAL MOTOR B-SERIES | 1        | EA |
| 2    | 72218  | HYD CYLINDER-2.00 BORE X 18.00 STR        | 2        | EA |
| 3    | 85595  | PIN, Q/R, 5/8 DIA X 3 1/2 L               | 2        | EA |
| 4    | 800418 | LANYARD, Q/R PIN                          | 2        | EA |
| 5    | 86553  | OUTRIGGER WELDMNT, INNER-PAINTED          | 2        | EA |
| 6    | 76882  | PIVOT PIN-MIXER                           | 2        | EA |

## MIXER BEARING ASSEMBLY



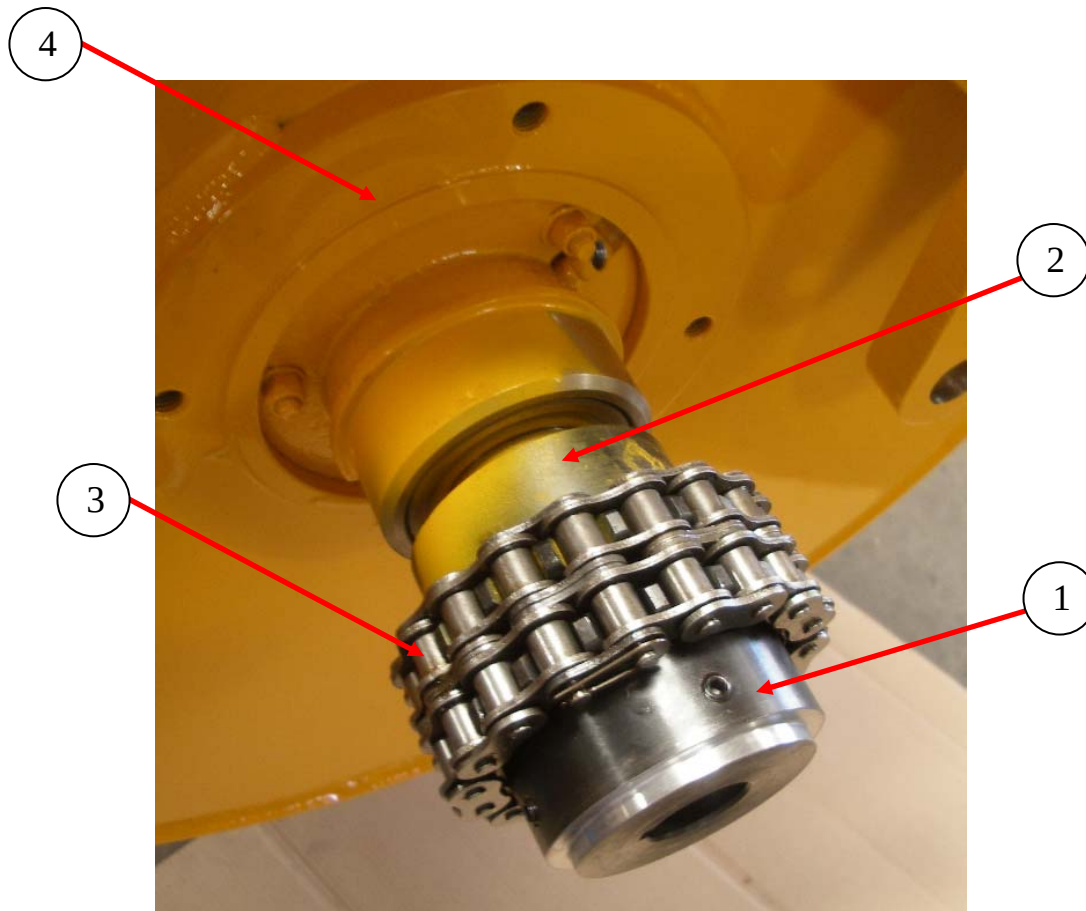
| ID # | PART # | PART DESCRIPTION                         | QUANTITY |    |
|------|--------|------------------------------------------|----------|----|
|      | 87903  | MIXER 10 CU FT STONE                     | REF      | EA |
| 1    | 88113  | LIFT MIXER ASSEMBLY (MODIFIED)           | 1        | EA |
| 2    | 88129  | MODIFIED FLANGE BEARING                  | 2        | EA |
| 3    |        | BEARING                                  | 2        | EA |
| 4    |        | FITTING, GREASE ¼"-28 (VENDOR P/N 46042) | 2        | EA |
| 5    |        | DRUM SEAL-YELLOW (VENDOR P/N 32324)      | 8        | EA |
| 6    |        | WASHER, SPLIT (VENDOR P/N 25881)         | 2        | EA |
| 7    |        | SEAL, SPACER (VENDOR P/N 24017)          | 4        | EA |

### MIXER PADDLE ASSEMBLY



| ID # | PART # | PART DESCRIPTION                      | QUANTITY |    |
|------|--------|---------------------------------------|----------|----|
| 1    | 88131  | MODIFIED STONE MIXER HEAVY DUTY SHAFT | 1        | EA |
| 2    |        | PADDLE (VENDOR P/N 21464-2)           | 1        | EA |
| 3    |        | PADDLE COMPETE (VENDOR P/N 21467-2)   | 1        | EA |
| 4    |        | BLADE RUBBER LONG (VENDOR P/N 24106)  | 4        | EA |
| 5    |        | BACK BAR LONG (VENDOR P/N 24104-2)    | 4        | EA |
| 6    |        | BLADE RUBBER SHORT (VENDOR P/N 24105) | 2        | EA |
| 7    |        | BAR BACKER SHORT (VENDOR P/N 24103-2) | 2        | EA |
| 8    |        | PADDLE CLAMP (VENDOR P/N 26882)       | 2        | EA |
| 9    |        | PADDEL (VENDOR P/N 21465-2)           | 1        | EA |
| 10   |        | PADDLE COMPLETE (VENDOR P/N 21466-2)  | 1        | EA |

## MIXER WELDMENT ASSEMBLY CONTINUED



| ID # | PART # | PART DESCRIPTION                    | QUANTITY |    |
|------|--------|-------------------------------------|----------|----|
| 1    | 88130  | SPROCKET MODIFICATION               | 1        | EA |
| 2    | 88093  | COUPLING CHAIN 6018-1 ½" HUB        | 1        | EA |
| 3    | 88094  | CHAIN COUPLING 6018                 | 1        | EA |
| 4    | 88228  | FLANGE, STONE MIXER HOPPER WELDMENT | 1        | EA |



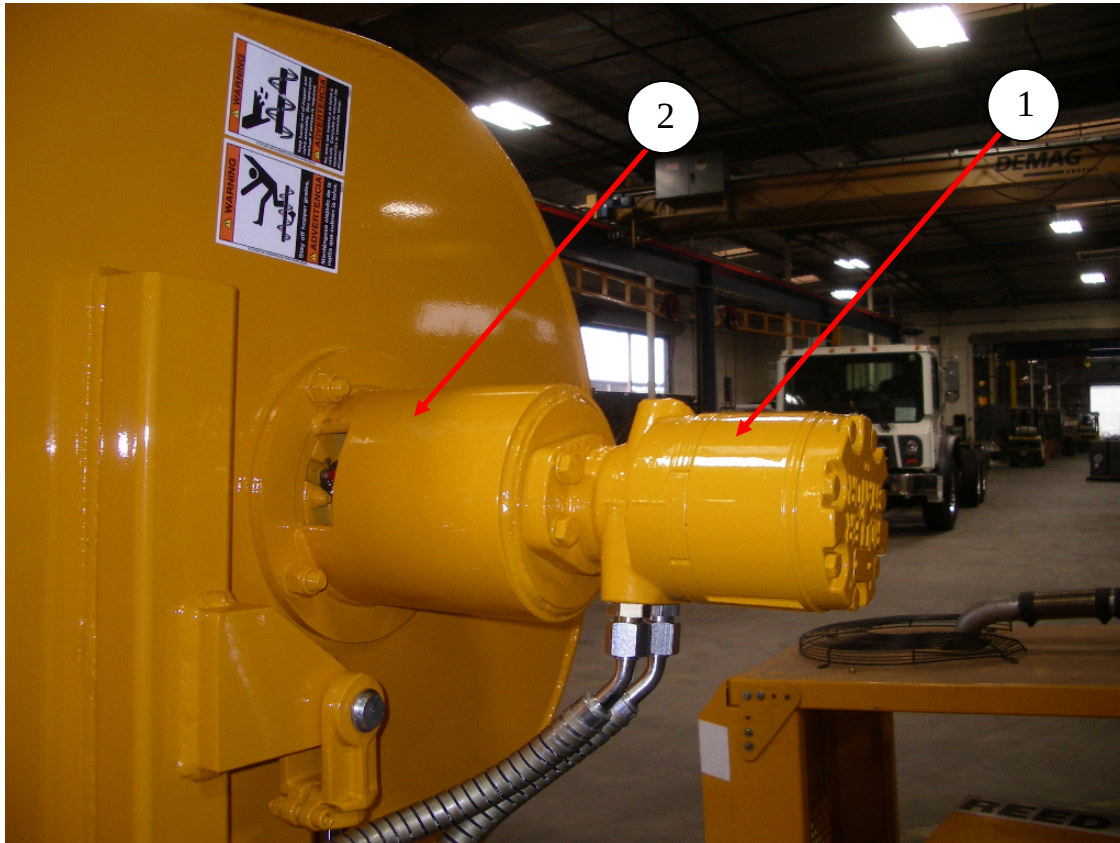


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## MIXER SINGLE MOTOR



| ID # | PART # | PART DESCRIPTION                 | QUANTITY |    |
|------|--------|----------------------------------|----------|----|
| 1    | 86546  | HYD MOTOR -45.6 CID – 1.25 SHAFT | 1        | EA |
| 2    | 88229  | MOTOR MOUNT WELDMENT             | 1        | EA |

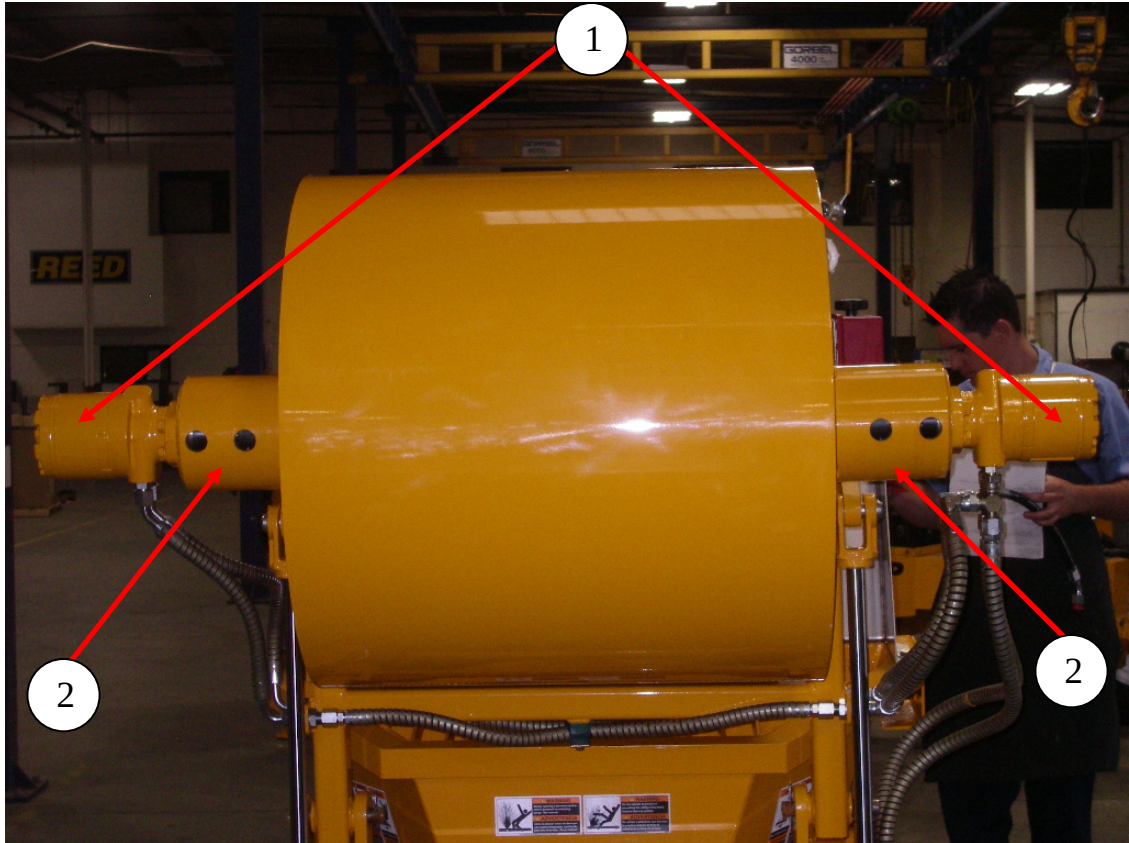


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## MIXER DUAL MOTOR



| ID # | PART # | PART DESCRIPTION                 | QUANTITY |    |
|------|--------|----------------------------------|----------|----|
| 1    | 86546  | HYD MOTOR -45.6 CID – 1.25 SHAFT | 2        | EA |
| 2    | 88229  | MOTOR MOUNT WELDMENT             | 2        | EA |

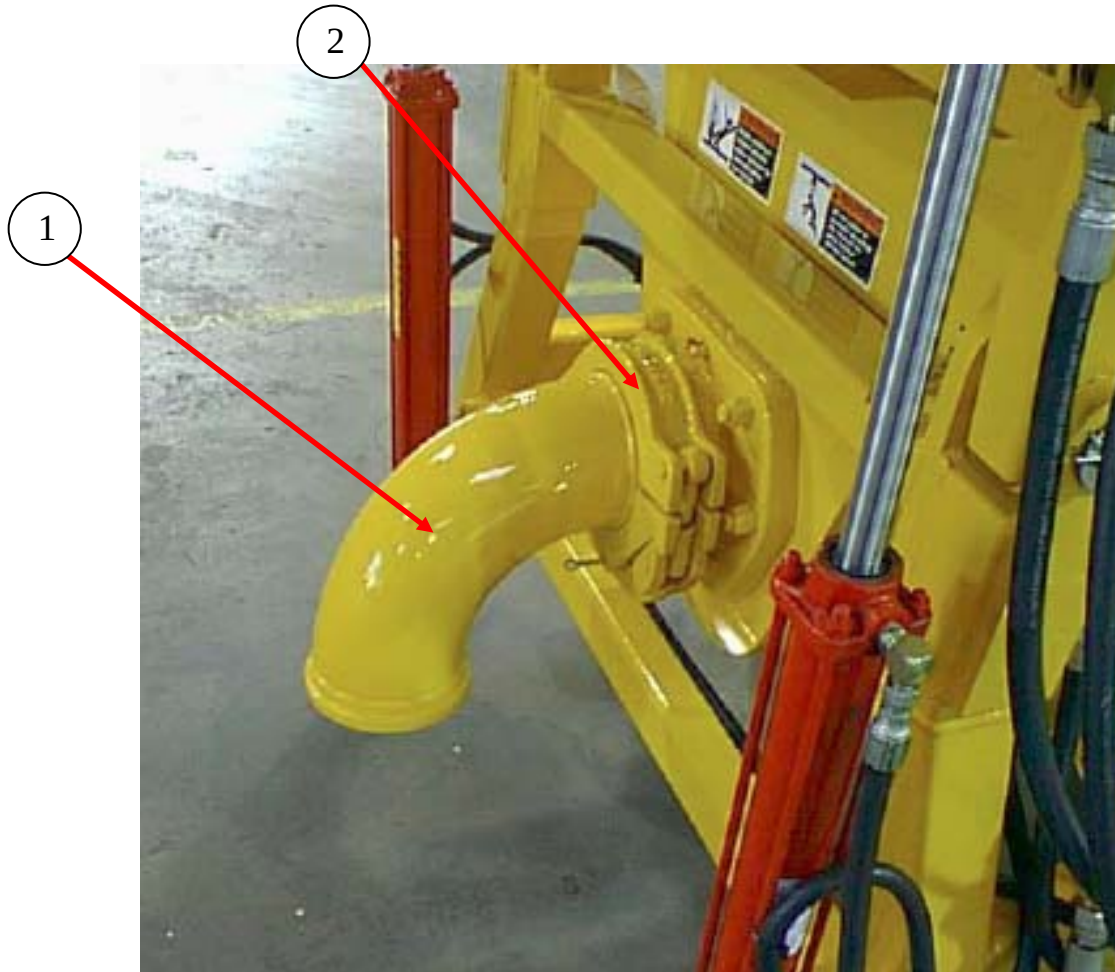


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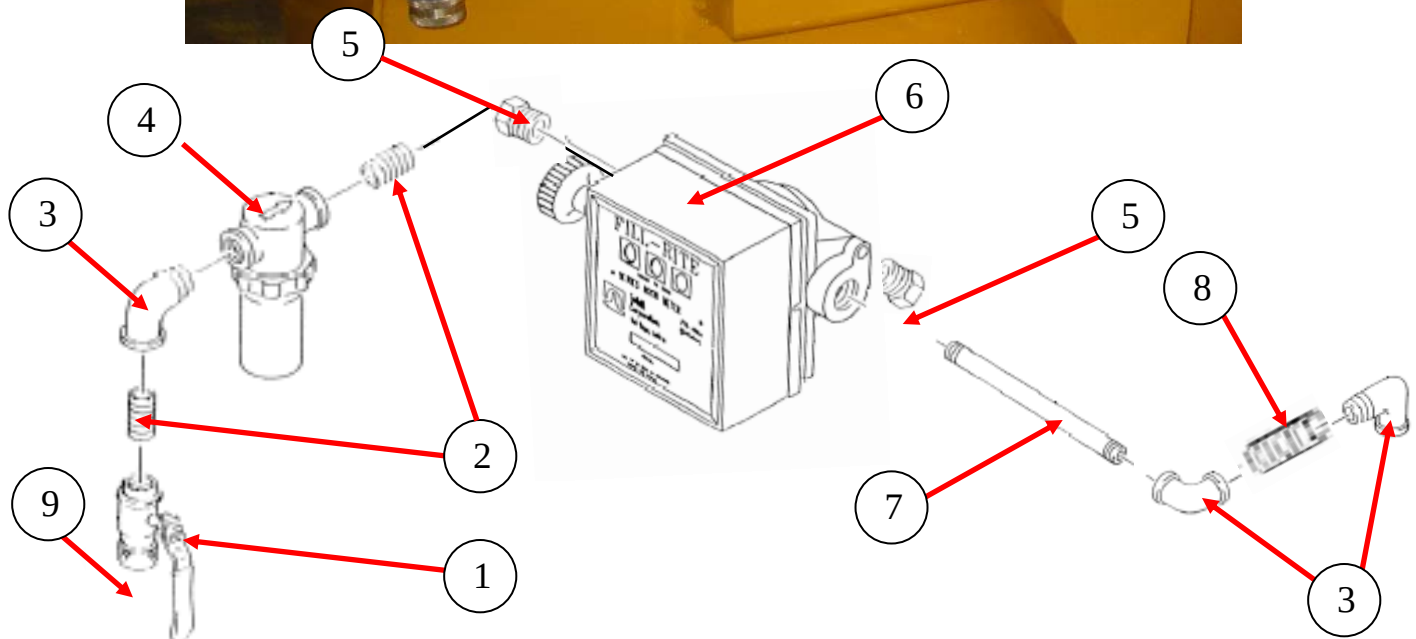
## MIXER 4" OUTLET



| ID # | PART # | PART DESCRIPTION              | QUANTITY |    |
|------|--------|-------------------------------|----------|----|
| 1    | 86157  | ELBOW 90° 4" IN HD ENDS 9.50R | 1        | EA |
| 2    | 71530  | CLAMP 4" HD ADJUSTABLE        | 1        | EA |



## WATER PLUMBING ASSEMBLY



| ID # | PART # | PART DESCRIPTION                  | QUANTITY |    |
|------|--------|-----------------------------------|----------|----|
| 1    | 56413  | VALVES-3/4" BALL VALVE            | 1        | EA |
| 2    | 40047  | NIPPLE-GAL 3/4"                   | 2        | EA |
| 3    | 20143  | ELBOW- .75" X 90° GALV            | 3        | EA |
| 4    | 78158  | STAINER-3/4" FOR WASH PUMP        | 1        | EA |
| 5    | 40045  | BUSHING - 3/4"M TO 1/2"F          | 2        | EA |
| 6    | 71428  | FLOW METER (1P951 W.W.G.)         | 1        | EA |
| 7    | 20125  | NIPPLE, 3/4" NPT X 9 IN.GALV      | 1        | EA |
| 8    | 74815  | NIPPLE- 3/4 X 4"                  | 1        | EA |
| 9    | 12061  | ADAPTER-1/2" MALE NPT TO 3/4" FEM | 1        | EA |





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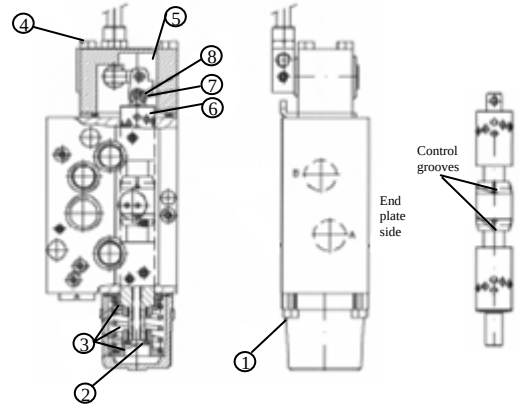
## MIXER DIRECTIONAL CONTROL VALVE

### ADVICE ON CHANGING THE SPOOL

1. Slacken screws 1 (ISO4762-m4x12-8.8-A2-70), remove spring cover
2. Remove screw 2 M4x30-8.8
3. Remove spring assembly including spring cap 3
4. Slacken screws 4 (ISO 4762-m4x35-8.8-A2-70)
5. Lift lever housing including spool out of spool housing, drawing 5 6
6. Remove lock washer DIN 6799-2.3 and remove bolt 7 8
7. Assemble with (new) spool in reverse sequence

Attention: The control grooves of the valve spool should always be installed towards the end plate

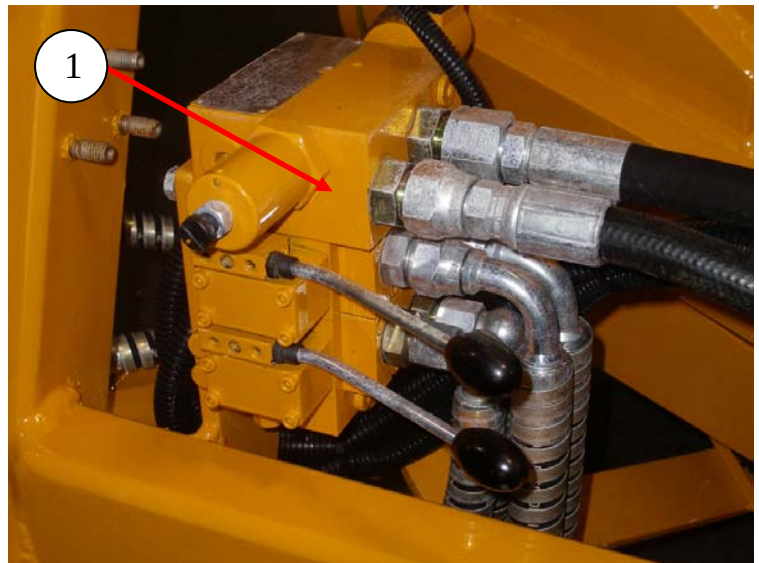
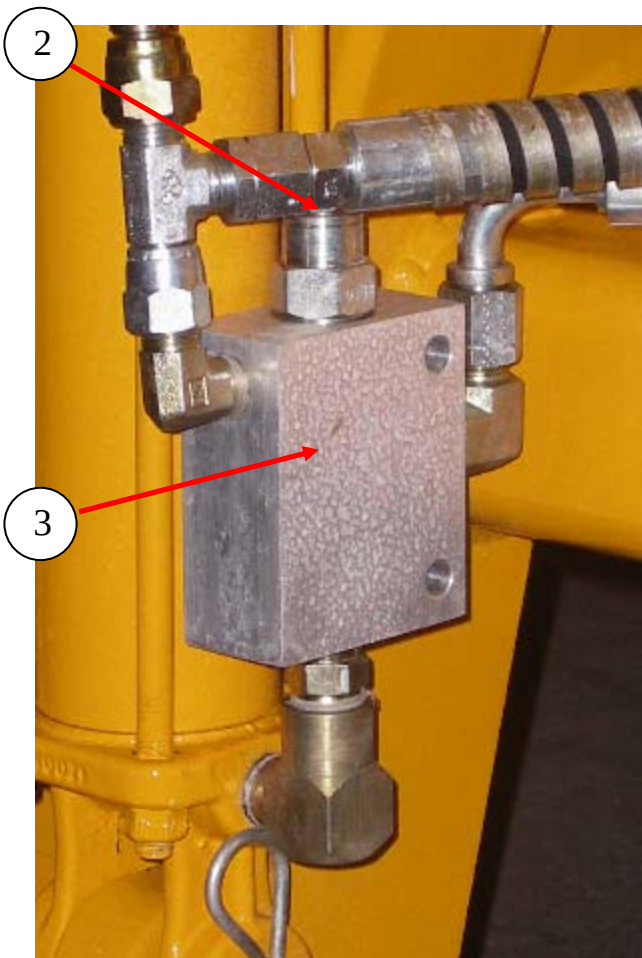
The valve spools are not mated to one spool housing. Therefore valve spools can be changed at any time to changing consumer consumption. The following advice is to be followed particularly:



### SEAL KIT

|                    |                  |
|--------------------|------------------|
| Connection block   | DS 7700-21       |
| Valve section      | DS 7700-22       |
| Intermediate plate | ZPL32 DS 7700-22 |
|                    | ZPL52 DS 7700-52 |

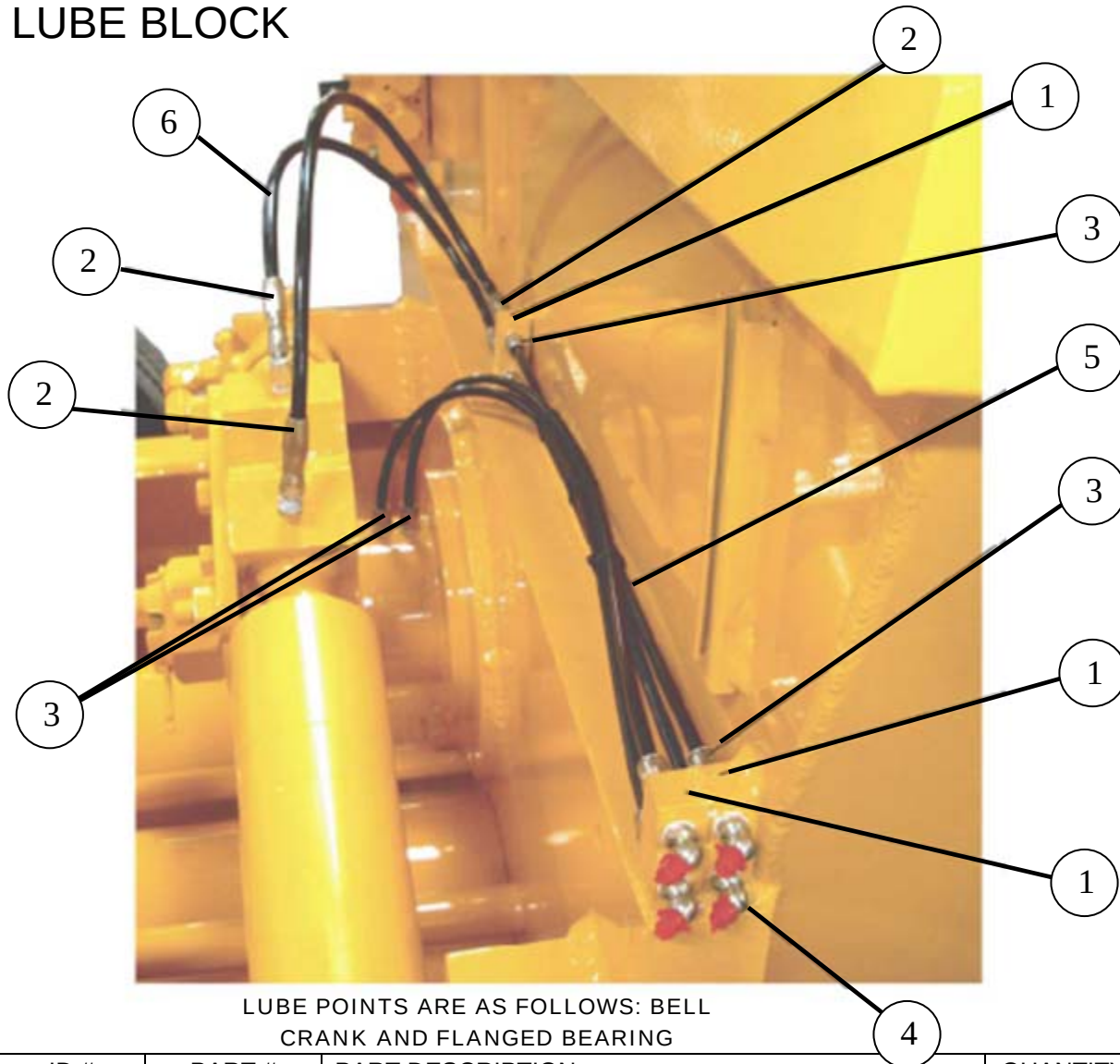
Note: This listing of components cover only the most essential ones. Some other seals e.g. soft iron rings ect. Have to be added.



| ID # | PART # | PART DESCRIPTION                    | QUANTITY |    |
|------|--------|-------------------------------------|----------|----|
| 1    | 87905  | VALVE 2 SPOOL LOAD S & PRESSURE COM | 1        | EA |
| 2    | 87913  | CARTRIDGE COUNTER BALANCE VALVE     | 2        | EA |
| 3    | 87912  | MANIFOLD LINE MOUNT                 | 2        | EA |

## OPTIONS

### LUBE BLOCK

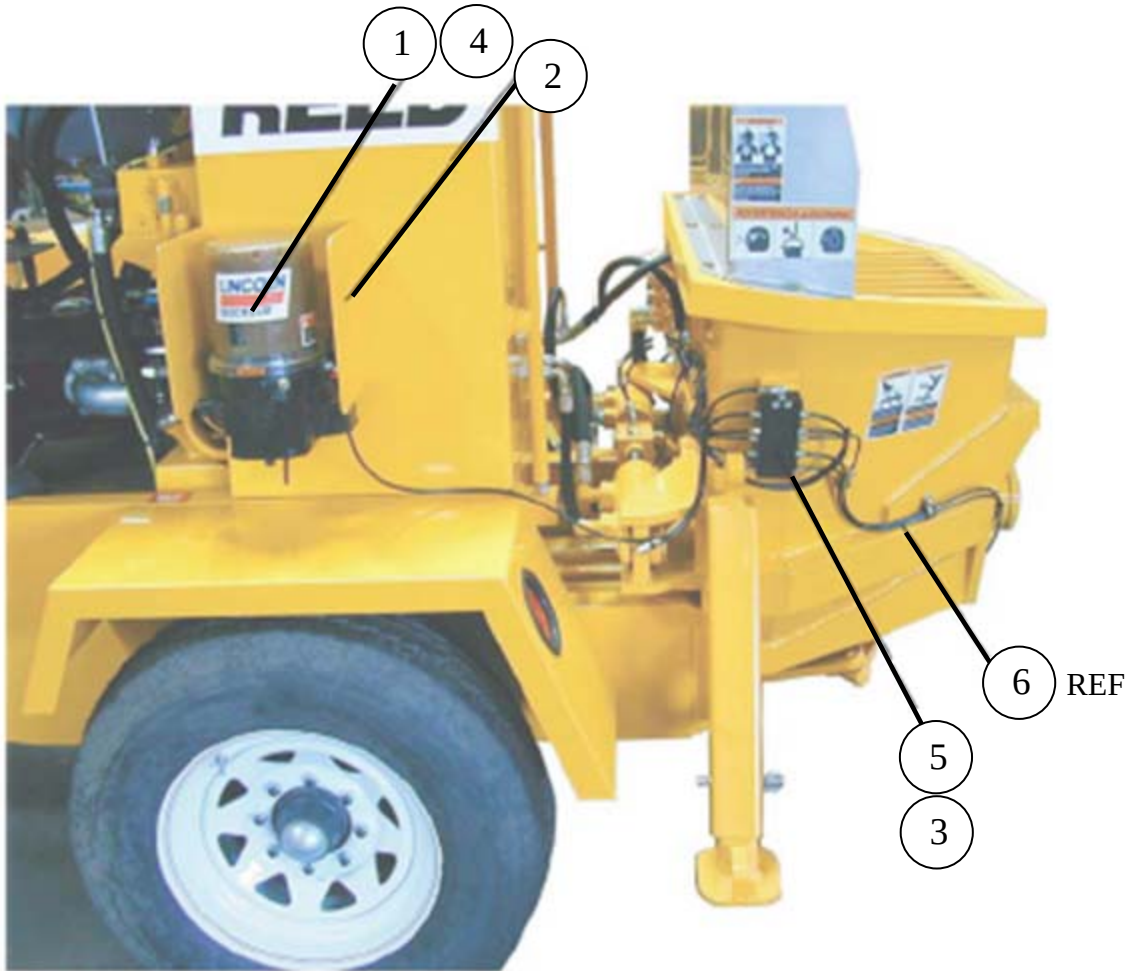


LUBE POINTS ARE AS FOLLOWS: BELL  
CRANK AND FLANGED BEARING

| ID # | PART # | PART DESCRIPTION                 | QUANTITY |    |
|------|--------|----------------------------------|----------|----|
|      | 87539  | ASSEMBLY, CENTRALIZED LUBE BLOCK | 1        | EA |
| 1    | 87437  | BLOCK                            | 3        | EA |
| 2    | 87628  | HOSE, COUPLING                   | 4        | EA |
| 3    | 87629  | FITTING, HOSE                    | 8        | EA |
| 4    |        | FITTING, GREASE                  | 4        | EA |
| 5    |        | HOSE, PLASTIC- 1/4 " O.D. TUBING | A/R      |    |
| 6    |        | HOSE, PLASTIC 5/16" O.D. TUBING  | A/R      |    |

## OPTIONS

### AUTOLUBE PUMP (PLASTIC TUBING)

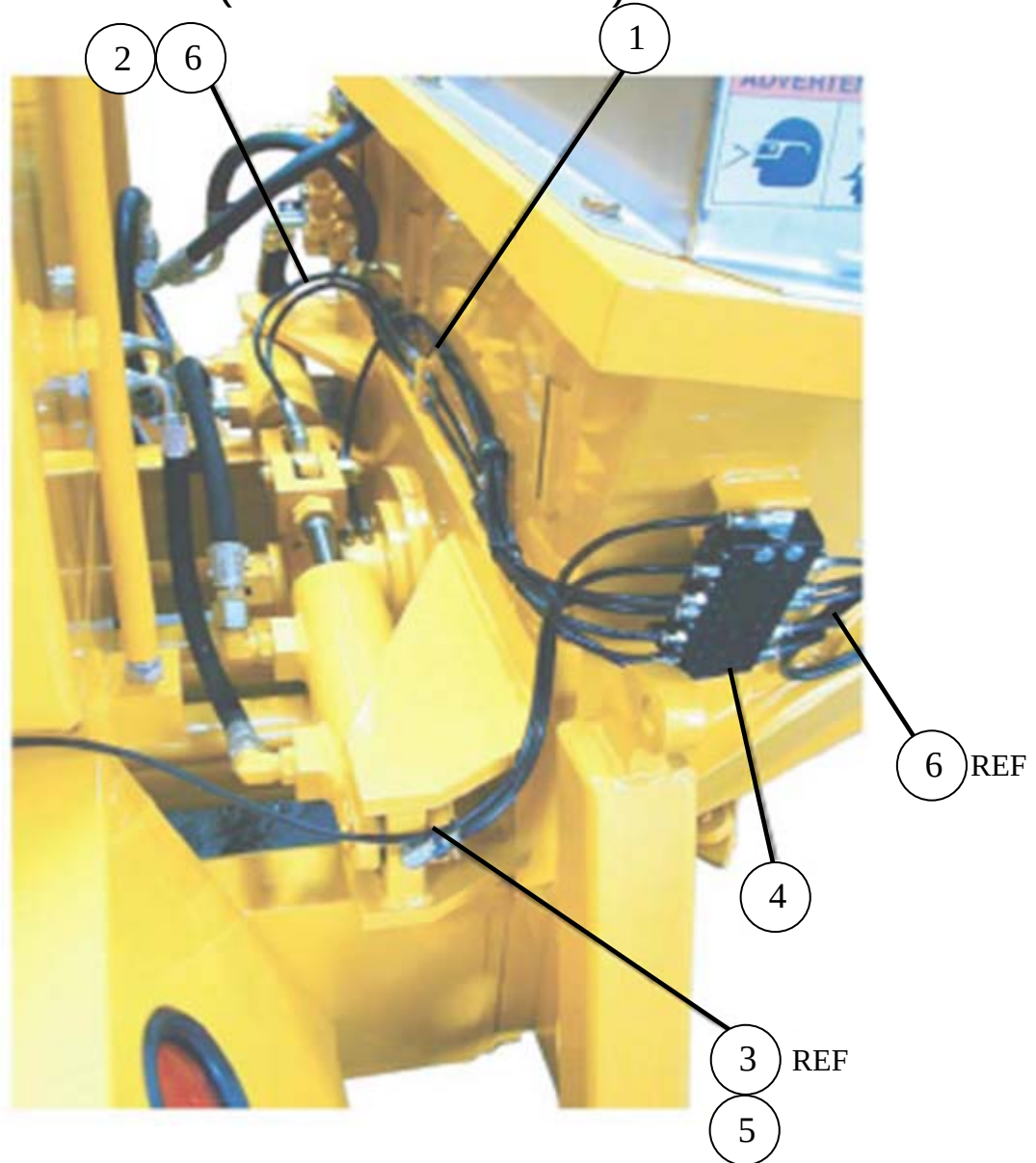


| ID # | PART # | PART DESCRIPTION                     | QUANTITY |    |
|------|--------|--------------------------------------|----------|----|
|      | 87476  | ASSEMBLY, AUTO LUBE 12V PLASTIC TUBE | 1        | EA |
| 1    | 87193  | LUBE PUMP ASSY (PLACTIC TUBING)      | 1        | EA |
| 2    | 87257  | GUARD                                | 1        | EA |
| 3    | 87475  | BRACKET, LUBE BLOCK MOUNT            | 1        | EA |
| 4    |        | VALVE, PRESSURE RELIEF               | 1        | EA |
| 5    |        | BLOCK, DIVIDER VALVE -18 OUTLET      | 1        | EA |
| 6    |        | HOSE, PLASTIC- 1/4" O.D.             | A/R      |    |
| 7    |        | HOSE, PLASTIC-5/16" O.D.             | A/R      |    |



## OPTIONS

### AUTOLUBE PUMP (PLASTIC TUBING) CONTINUE



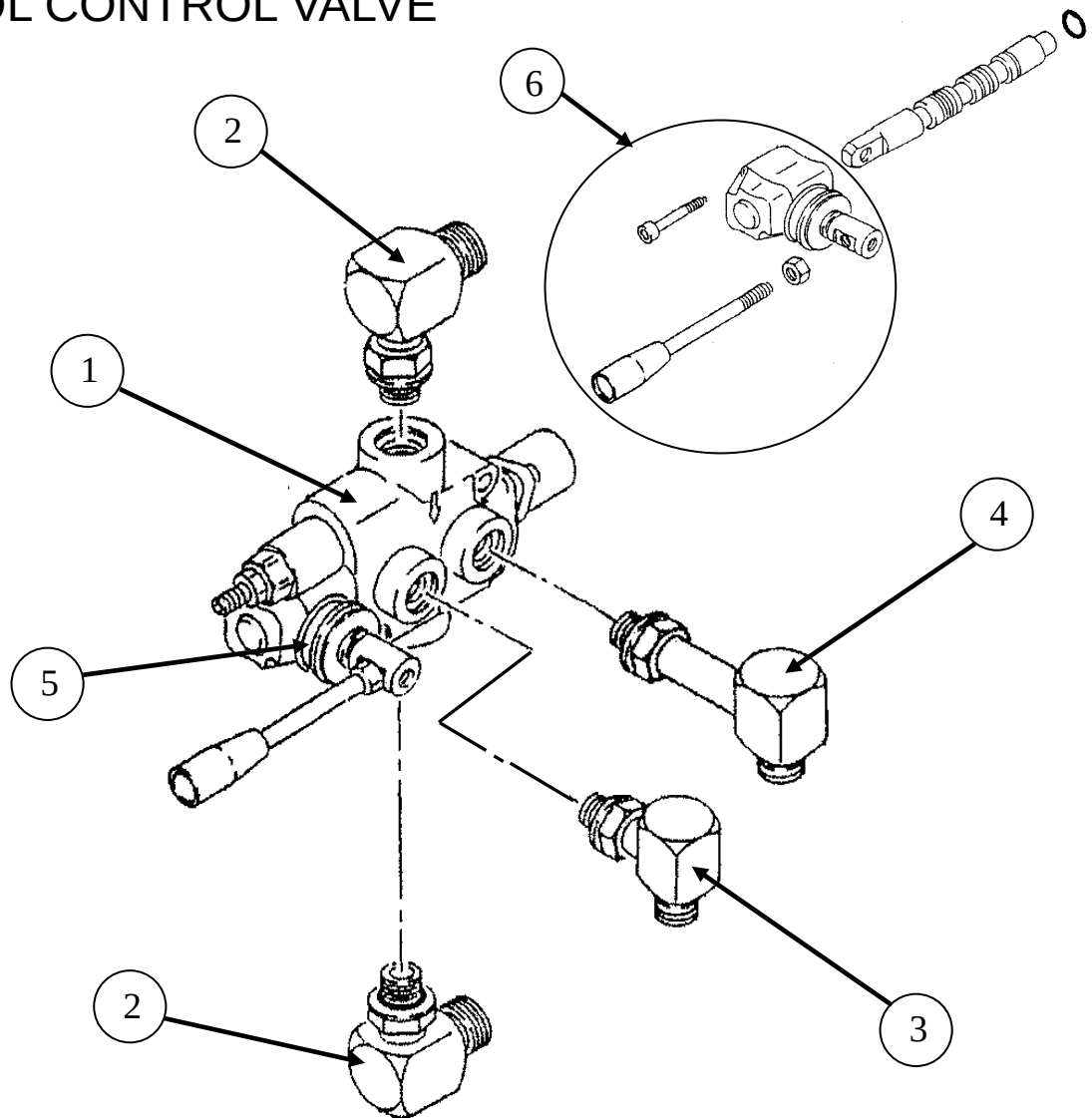
| ID # | PART # | PART DESCRIPTION                | QUANTITY |    |
|------|--------|---------------------------------|----------|----|
| 1    | 87437  | BLOCK                           | 1        | EA |
| 2    | 87628  | HOSE COUPLING                   | 4        | EA |
| 3    | 87629  | FITTING, HOSE                   | 22       | EA |
| 4    |        | BLOCK, DIVIDER VALVE -18 OUTLET | REF      | EA |
| 5    |        | HOSE, PLASTIC- 1/4" O.D.        | A/R      |    |
| 6    |        | HOSE, PLASTIC-5/16" O.D.        | A/R      |    |



## OPTION

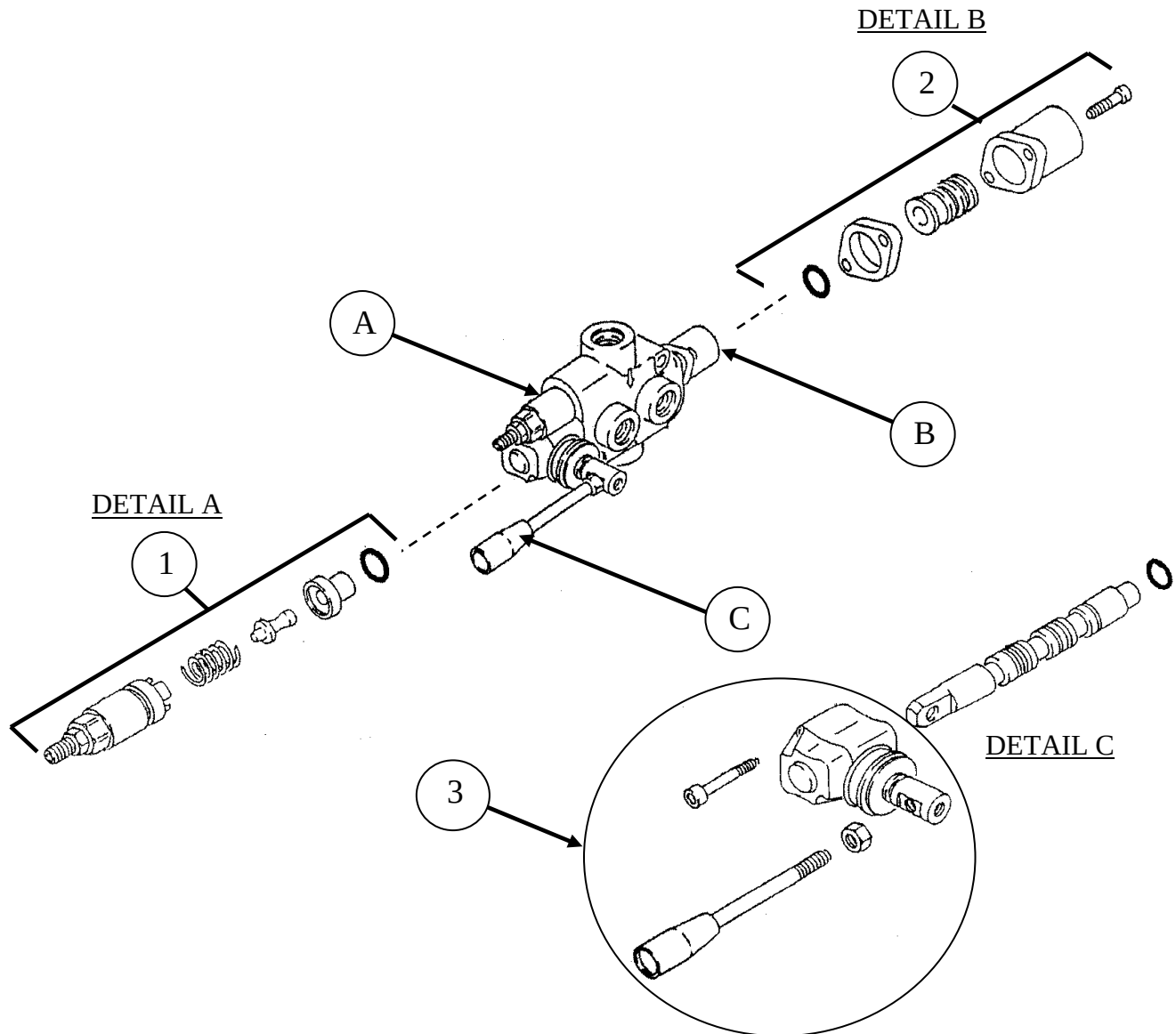
## HYDRAULIC OUTRIGGER GROUP

## 1 SPOOL CONTROL VALVE



| ID # | PART #    | PART DESCRIPTION                              | QUANTITY |    |
|------|-----------|-----------------------------------------------|----------|----|
| 1    | 74584     | VALVE, MAUNAL-1 SPOOL                         | 1        | EA |
| 2    | 86746     | FITTING, 90° MB-MJ-90-8-10                    | 2        | EA |
| 3    | 86748     | FITTING, 90° MB-MJ90-6-6                      | 1        | EA |
| 4    | 86747     | FITTING, 90° MB-MJ90LL-6-6                    | 3        | EA |
| 5    | 74471-B   | BOOT, COVER                                   | 1        | EA |
| 6    | 74471-020 | VALVE ACTUATOR FOR 74471, 74585, 74584 VALVES | A/R      | EA |

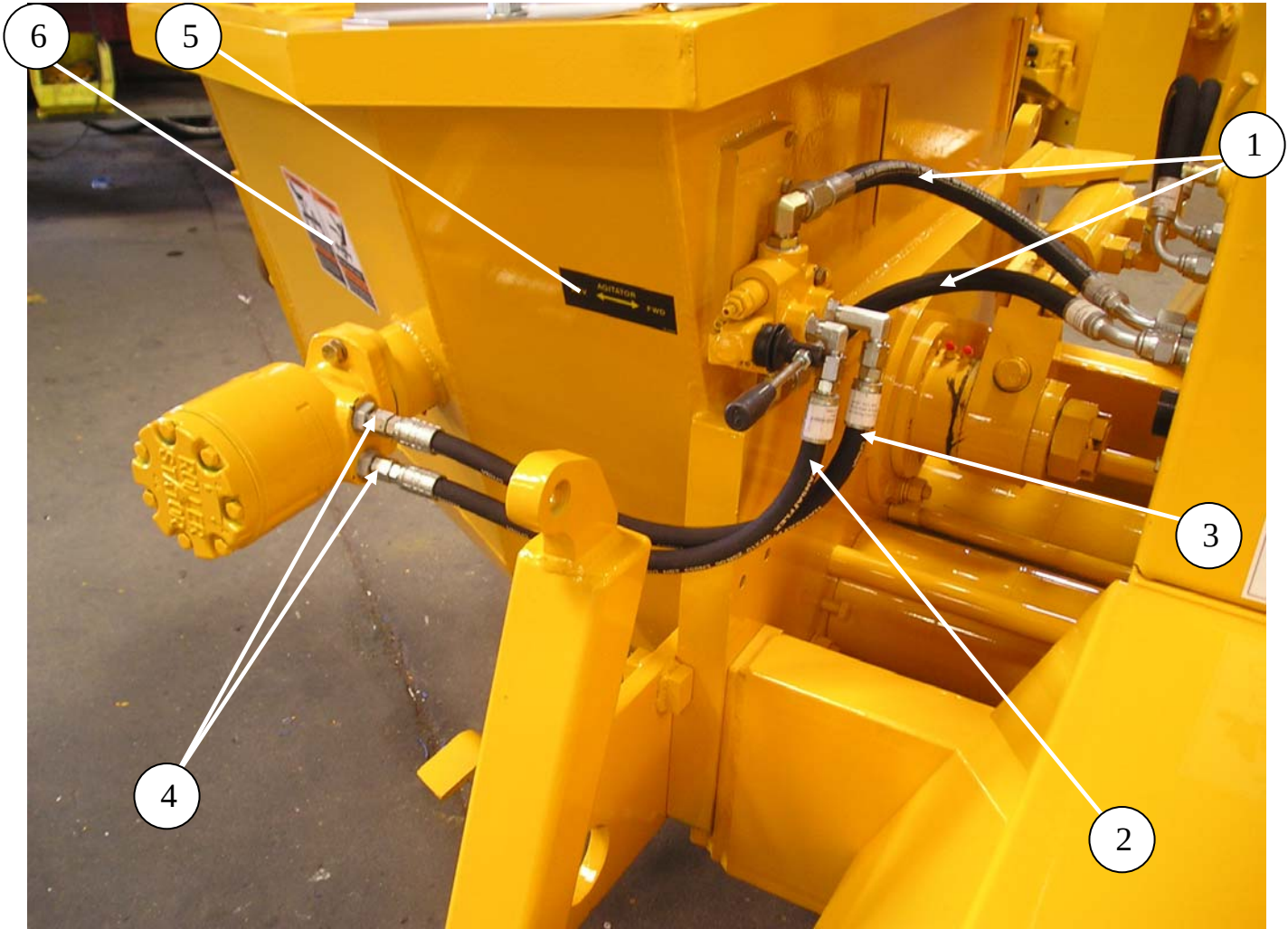
## SPOOL AGITATOR VALVE



| ID # | PART #    | PART DESCRIPTION                              | QUANTITY |    |
|------|-----------|-----------------------------------------------|----------|----|
| 1    | 85706     | RELIEF, CARTRIDGE                             | 1        | EA |
| 2    | 74469     | DETENT KIT, #11 WALVOIL VALVE                 | A/R      | EA |
| 3    | 74471-020 | VALVE ACTUATOR FOR 74471, 74585, 74584 VALVES | A/R      | EA |

## OPTIONS

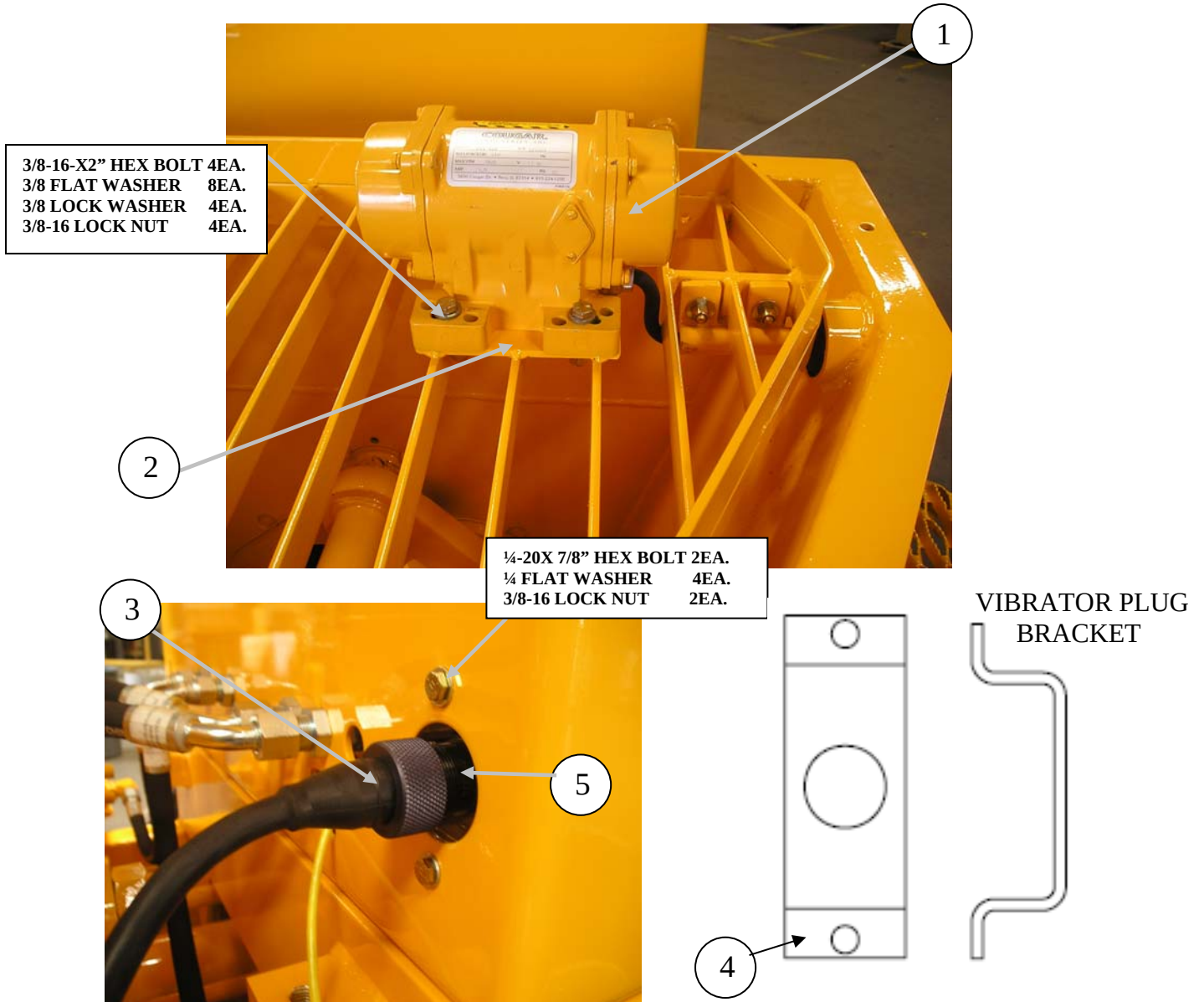
### AGITATOR GROUP CONTINUED



| ID # | PART #    | PART DESCRIPTION               | QUANTITY |    |
|------|-----------|--------------------------------|----------|----|
| 1    | 85657-016 | HOSE, 8M2T-10FJX-10FJX45-20.00 | 2        | EA |
| 2    | 85658-011 | HOSE, 6M2T-6FJX-6FJX-21.00     | 1        | EA |
| 3    | 85658-010 | HOSE, 6M2T-6FJX-6FJX-20.00     | 1        | EA |
| 4    |           | FITTING,MB-MJ-10-6             | 2        | EA |
| 5    | 85845     | DECAL, OUTRIGGERS              | 1        | EA |
| 6    | 800919    | DECAL, WARNING, STAND CLEAR    | 2        | EA |

## OPTION

## VIBRATOR COUGAR

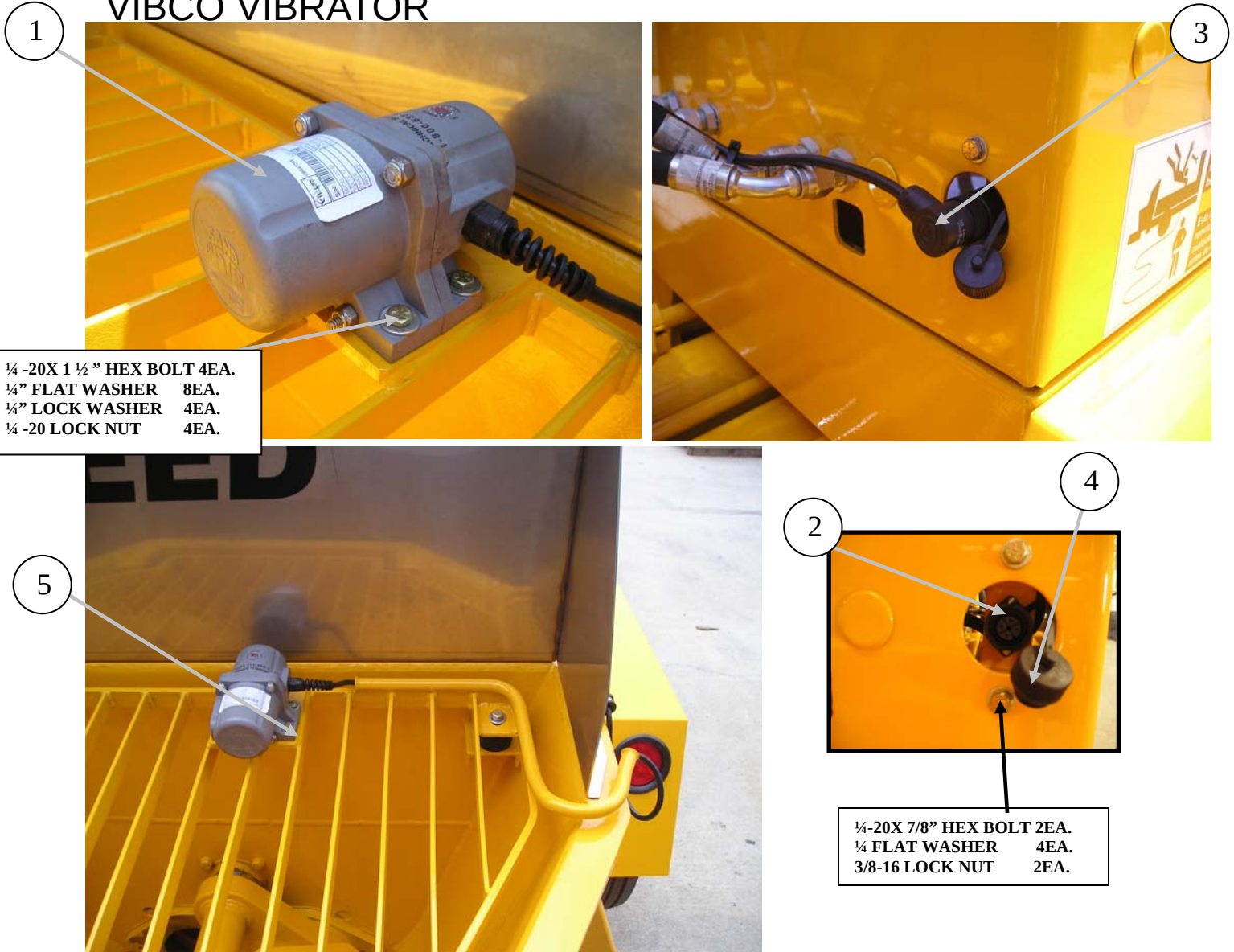


| ID # | PART #  | PART DESCRIPTION                | QUANTITY |    |
|------|---------|---------------------------------|----------|----|
| 1    | 71429   | VIBRATOR, 12VDC ROTARY (COUGAR) | 1        | EA |
| 2    | 85893   | BRACKET, VIBRATOR               | 1        | EA |
| 3    | 85898-1 | CORD W/PLUG, MALE 14AWG X 8 FT  | 1        | EA |
| 4    | 87472   | BRACKET, VIBRATOR PLUG MOUNT    | 1        | EA |
| 5    | 85899   | VIBRATOR, PLUG                  | 1        | EA |



## OPTION

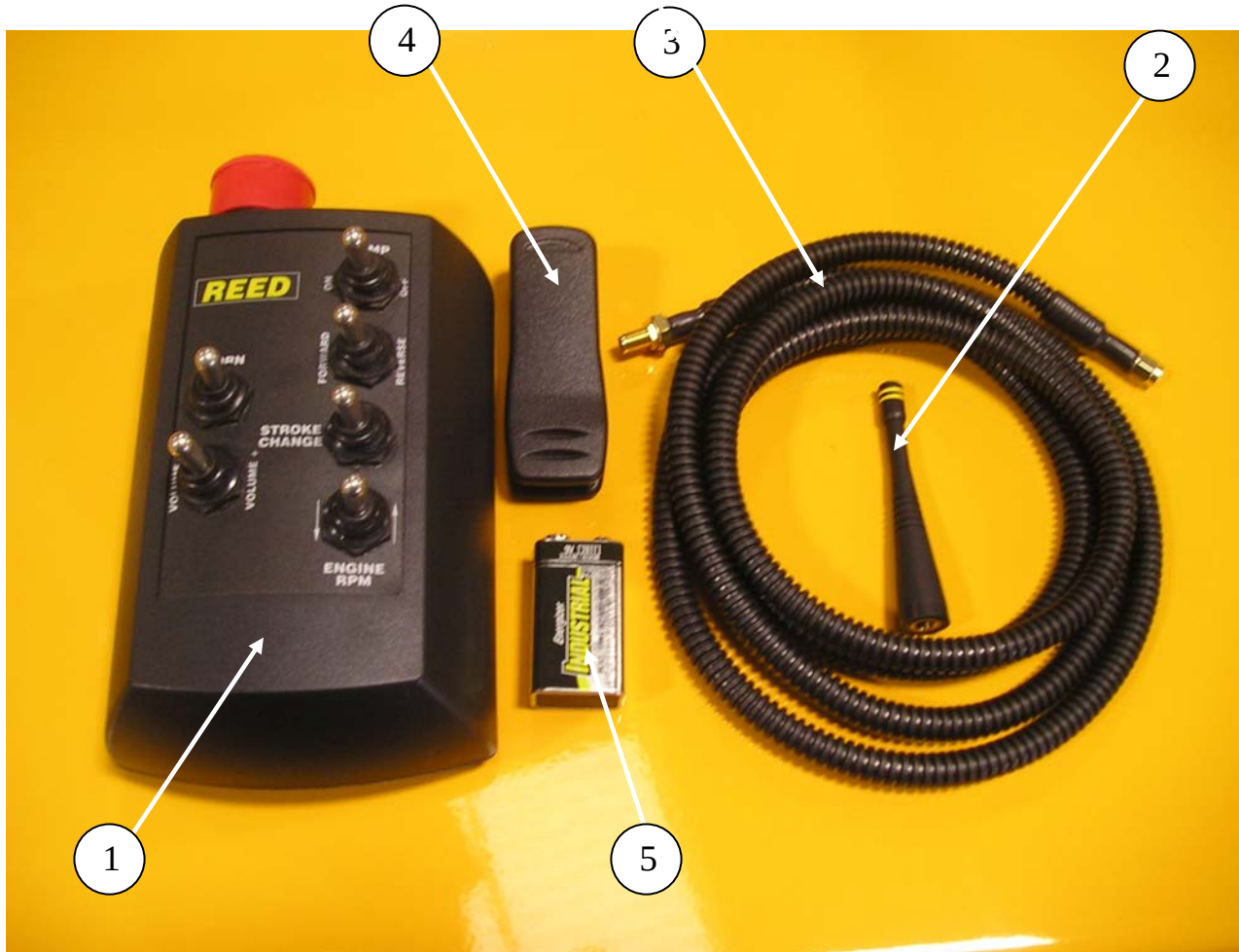
### VIBCO VIBRATOR



| ID # | PART # | PART DESCRIPTION                | QUANTITY |    |
|------|--------|---------------------------------|----------|----|
|      | 88021  | VIBRATOR, ASSY, ELECTRIC, 100LB | 1        | EA |
| 1    | 87916  | VIBRATOR, 12 VDC SMALL          | 1        | EA |
| 2    | 88024  | CONNECTOR, FEMALE               | 1        | EA |
| 3    | 88023  | CONNECTOR, MALE 90°             | 1        | EA |
| 4    | 88025  | CAP, SOCKET FEMALE FOR 88024    | 1        | EA |
| 5    | 88022  | BRACKET, 87916 VIBRATOR MOUNT   | 1        | EA |

## OPTIONS

### RADIO REMOTE KIT (KAR-TECH)



| ID # | PART #    | PART DESCRIPTION                    | QUANTITY |    |
|------|-----------|-------------------------------------|----------|----|
| 1    | 87348-1   | TRANSMITER, REMOTE CONTROL ASSEMBLY | 1        | EA |
| 2    | BW10285   | ANTENA                              | 1        | EA |
| 3    | BW10285-1 | ANTENA CABLE                        | 1        | EA |
| 4    | 87348     | CLIP                                | 1        | EA |
| 5    |           | 9V BATTERY                          | 1        | EA |

## OPTIONS

### RADIO REMOTE KIT (OMNIX)



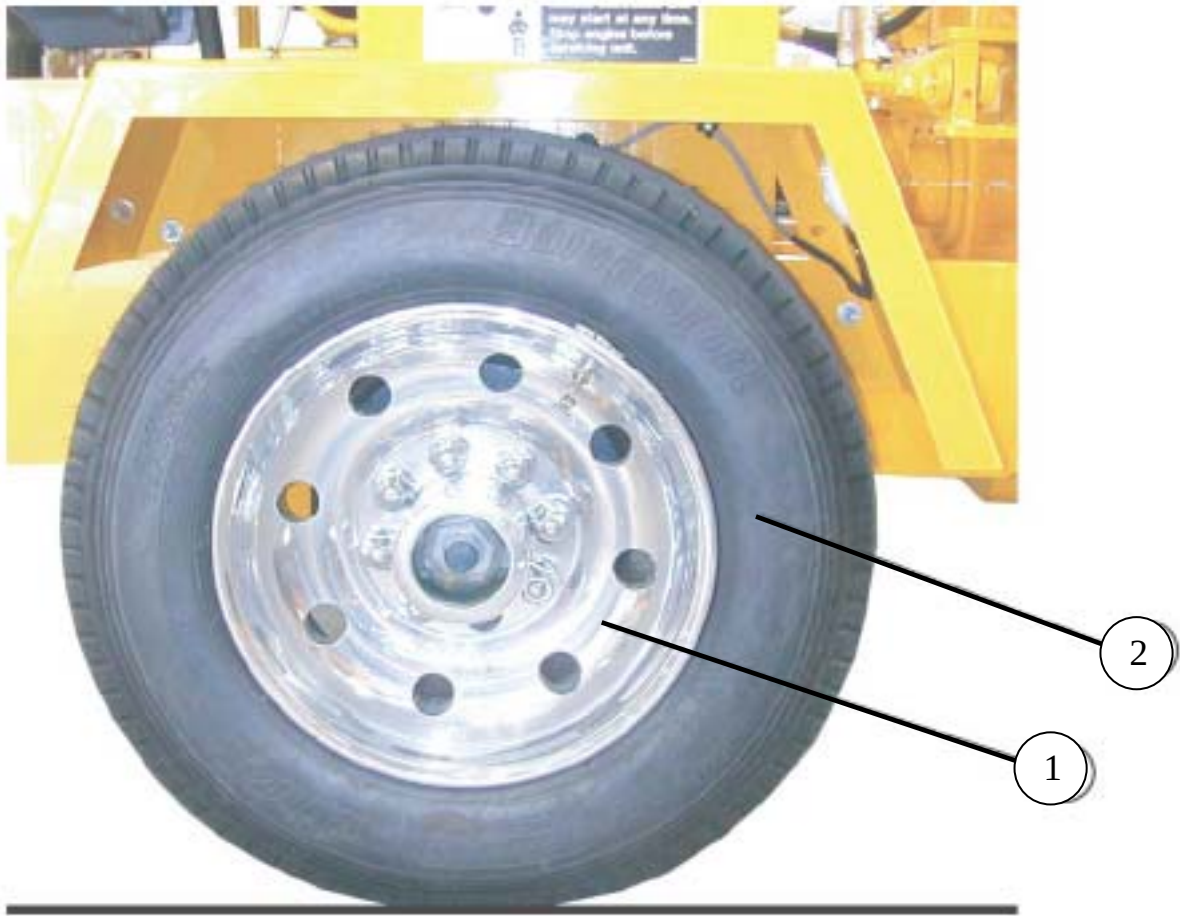
**NOTE:** KIT CONTAINS ALL PARTS SHOWN ABOVE.

| ID # | PART #    | PART DESCRIPTION            | QUANTITY |    |
|------|-----------|-----------------------------|----------|----|
| 1    | 85833-002 | OMNEX RADIO REMOTE KIT      | 1        | EA |
| 2    |           | RECEIVER R160               | 1        | EA |
| 3    |           | TRANSMITTER T110C           | 1        | EA |
| 4    |           | CABLE ASSEMBLY R160         | 1        | EA |
| 5    |           | REMOTE STRAPS               | 2        | EA |
| 6    |           | NiMH RECHARGEABLE BATTERIES | 4        | EA |
| 7    |           | ANTENA CABLE                | 1        | EA |
| 8    |           | ANTENA                      | 1        | EA |
| 9    |           | ANTENA BRACKET              | 1        | EA |



## OPTIONS

### ALUMINUM WHEEL AND TIRE

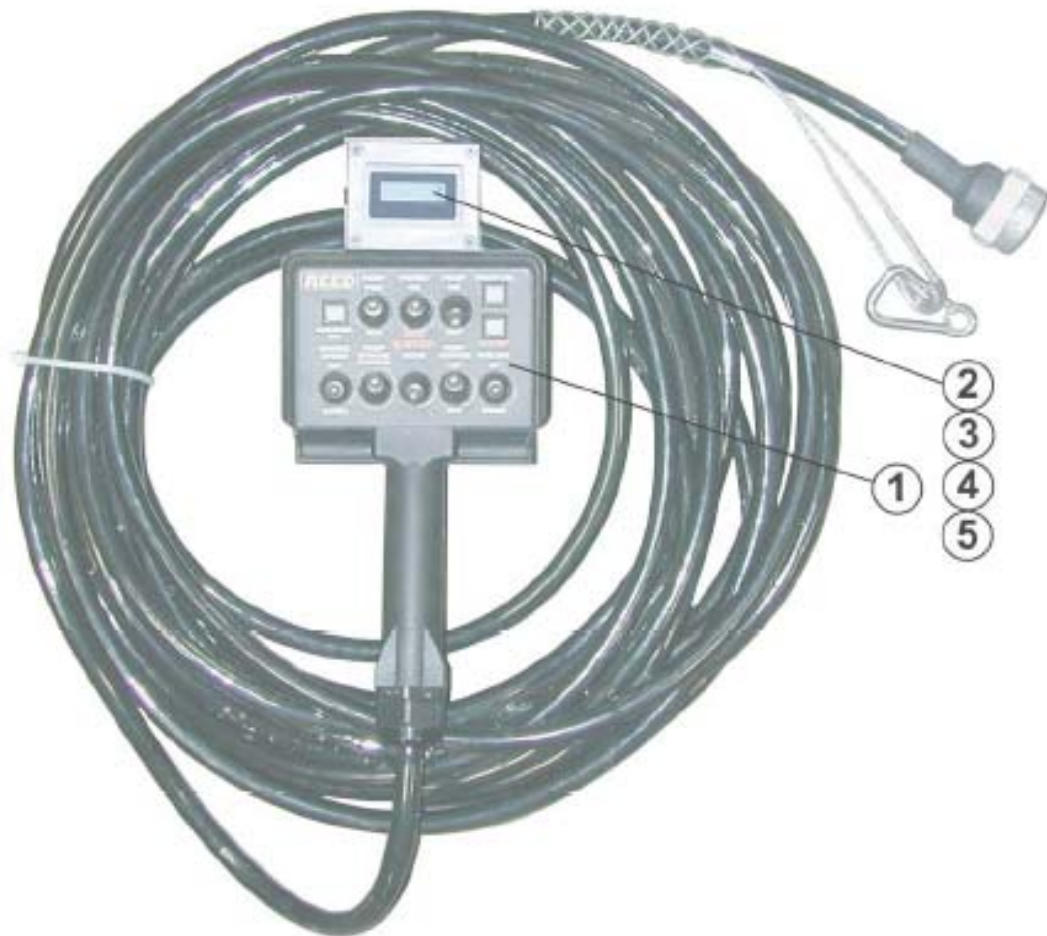


| ID # | PART #  | PART DESCRIPTION               | QUANTITY |    |
|------|---------|--------------------------------|----------|----|
|      | 86923-1 | TIRE & WHEEL-ALUMINUM ASSEMBLY | 2        | EA |
| 1    |         | WHEEL-ALUMINUM                 | 2        | EA |
| 2    |         | TIRE-215/75R17.5H              | 2        | EA |



## OPTIONS

### 50 FT STROKE COUNTER CABLE REMOTE ASSEMBLY



| ID # | PART #  | PART DESCRIPTION                                   | QUANTITY |    |
|------|---------|----------------------------------------------------|----------|----|
|      | 87753-1 | ASSEMBLY, 50 FEET CABLE REMOTE WITH STROKE COUNTER | REF      |    |
| 1    | 87347-1 | CONTROL, REMOTE CABLE (50 FT)                      | 1        | EA |
| 2    | 72330   | COUNTER, STROKE                                    | 1        | EA |
| 3    | 74388   | DIODE                                              | 2        | EA |
| 4    | 87784   | BOX, MACHINED                                      | 1        | EA |
| 5    | 87785   | COVER, BOX                                         | 1        | EA |



# B20C-X-V08

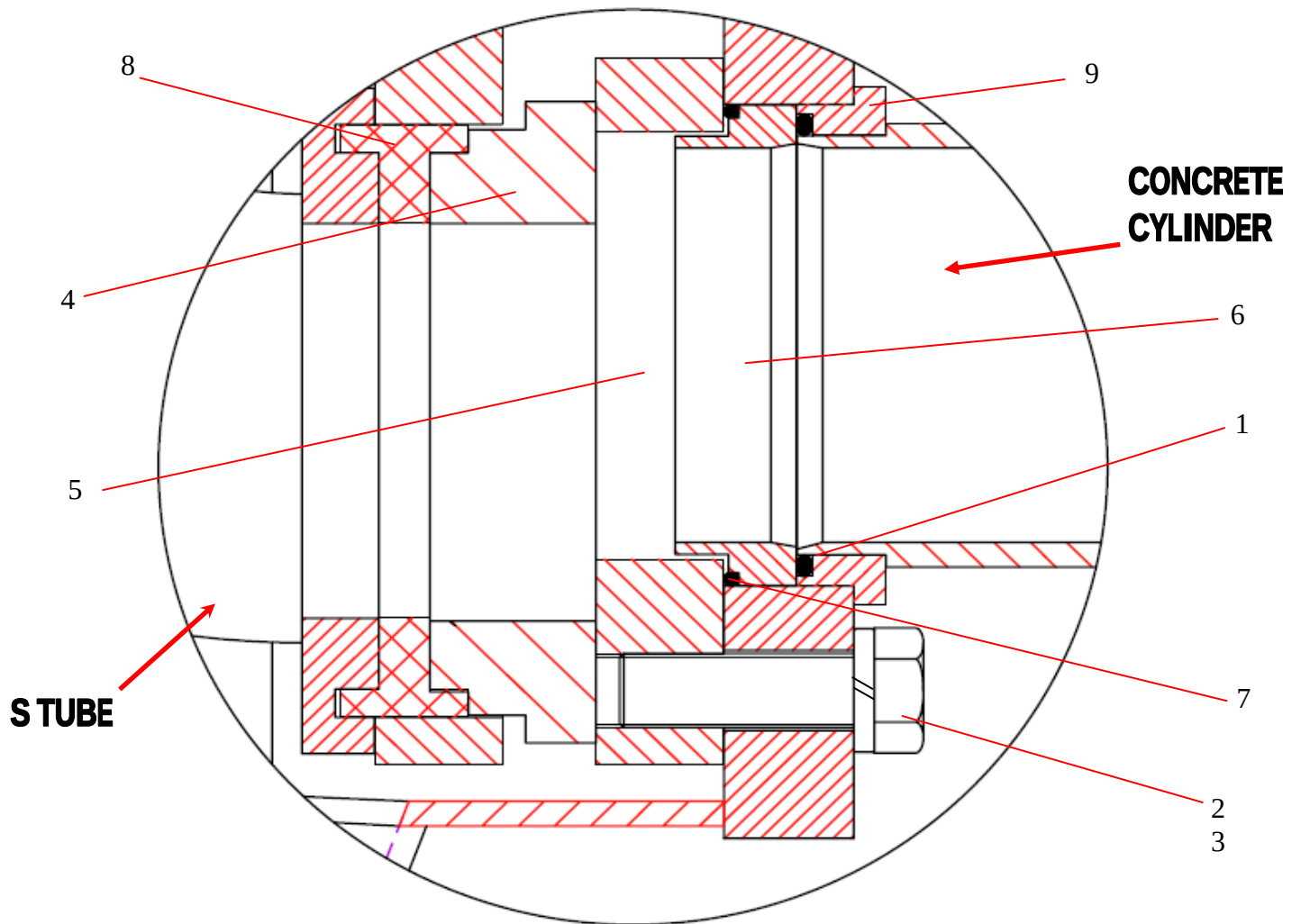
PARTS

REED  
13822 Oaks Avenue  
Chino, CA 91710  
reedpumps.com  
909-287-2100

## OPTIONS

## CARBIDE WEAR PARTS

## DETAIL B



| ID # | PART #  | PART DESCRIPTION                  | QUANTITY |    |
|------|---------|-----------------------------------|----------|----|
| 1    | 71249   | O-RING, #347 BUENA 70             | 2        | EA |
| 2    |         | FHCS, 3/4 - 10X 3 1/2" GR 8       | 4        | EA |
| 3    |         | LOCK WASHER, 3/4"                 | 4        | EA |
| 4    | 72384-1 | WEAR RING, 4" DOUBLE LIP, CARBIDE | 1        | EA |
| 5    | 71251-1 | WEAR PLATE-CARBIDE 4"             | 1        | EA |
| 6    | 71254   | ANTI CHIP RING, 4"                | 2        | EA |
| 7    | 71247   | O-RING FOR CHIP RING              | 2        | EA |
| 8    | 72285   | SEAL, DOUBLE LIP 4"               | 1        | EA |
| 9    | 71257   | CONC, CYL. ADAPTER                | 2        | EA |