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GRADALL®

# Illustrated Parts Manual

## Model XL3100

S/N 0210017676

***P/N - 31200094***

*Original*
*April 18th, 2005*

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# EFFECTIVITY PAGE

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| 5 | 5-11 | 80384346 | Dipstick Kit |
| 5 | 5-11 | 80384351 | Transmission Gasket Kit |
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| 5 | 5-15 | 83384088 | Idler Shaft Kit |
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| 5 | 5-39 | 80384400 | King Pin Kit |
| 5 | 5-41 | 77374043 | Front Service Brake Lined Shoes & Hardware Kit |
| 5 | 5-41 | 77374044 | Front Service Brake Hardware Kit |
| 5 | 5-50 | 83684999 | Pinion Bearing Spacer Kit |
| 5 | 5-50 | 83687001 | Differential Case To Gear Bolt Kit |
| 5 | 5-50 | 80684026 | Differential Kit |
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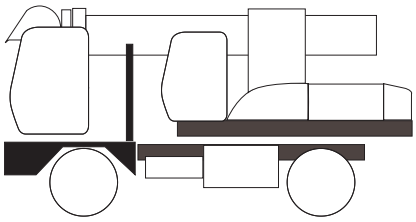
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# SERVICE KITS

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| 9 | 9-29 | 80334217 | Swing Regulator Seal Kit |
| 9 | 9-29 | 80334368 | Load Sense Relief Valve Seal Kit |
| 9 | 9-29 | 80334369 | Load Sense Bleed Screw Seal Kit |
| 9 | 9-29 | 80334370 | Two-stage Port Relief Seal Kit |
| 9 | 9-29 | 80334219 | Port Relief Seal Kit |
| 9 | 9-30 | 80334371 | Relief Valve Seal Kit |
| 9 | 9-30 | 80334372 | Solenoid Cartridge Seal Kit |
| 9 | 9-41 | 80324058 | Tilt Motor Seal Kit |
| 9 | 9-43 | 80424009 | Tilt Brake Friction Disc Kit |
| 9 | 9-43 | 80424010 | Tilt Brake Seal Kit |
| 9 | 9-43 | 80424011 | Tilt Brake Bearing Kit |
| 9 | 9-49 | 80334005 | Swing Motor Seal Kit |
| 9 | 9-61 | 80384339 | Power Take Off Countershaft Mounting Kit |
| 9 | 9-63 | 80384305 | Travel Motor Seal Kit |
| 9 | 9-67 | 80434230 | Gear Pump Seal Kit |
| 9 | 9-67 | 80434231 | Motor Pump Seal Kit |
| 9 | 9-88 | 77383746 | Steering Gear Poppet Adjusting Kit |
| 9 | 9-88 | 77384774 | Steering Gear Seal Kit |
| 9 | 9-88 | 77384799 | Steering Gear Input Shaft Seal Kit |

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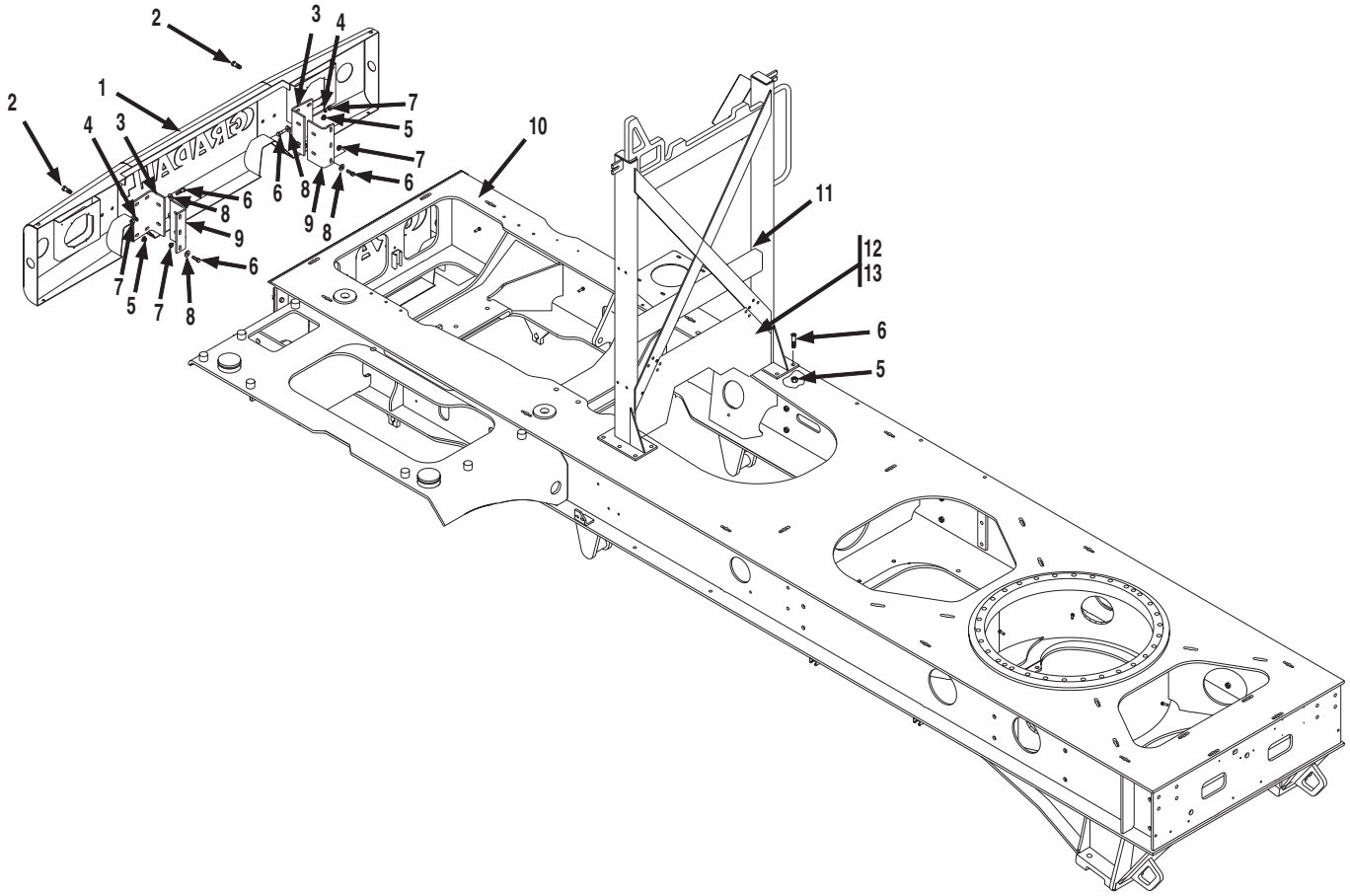
# SECTION 1
# FRAME & ATTACHING PARTS



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**Figure 1-1 Frame Assembly**



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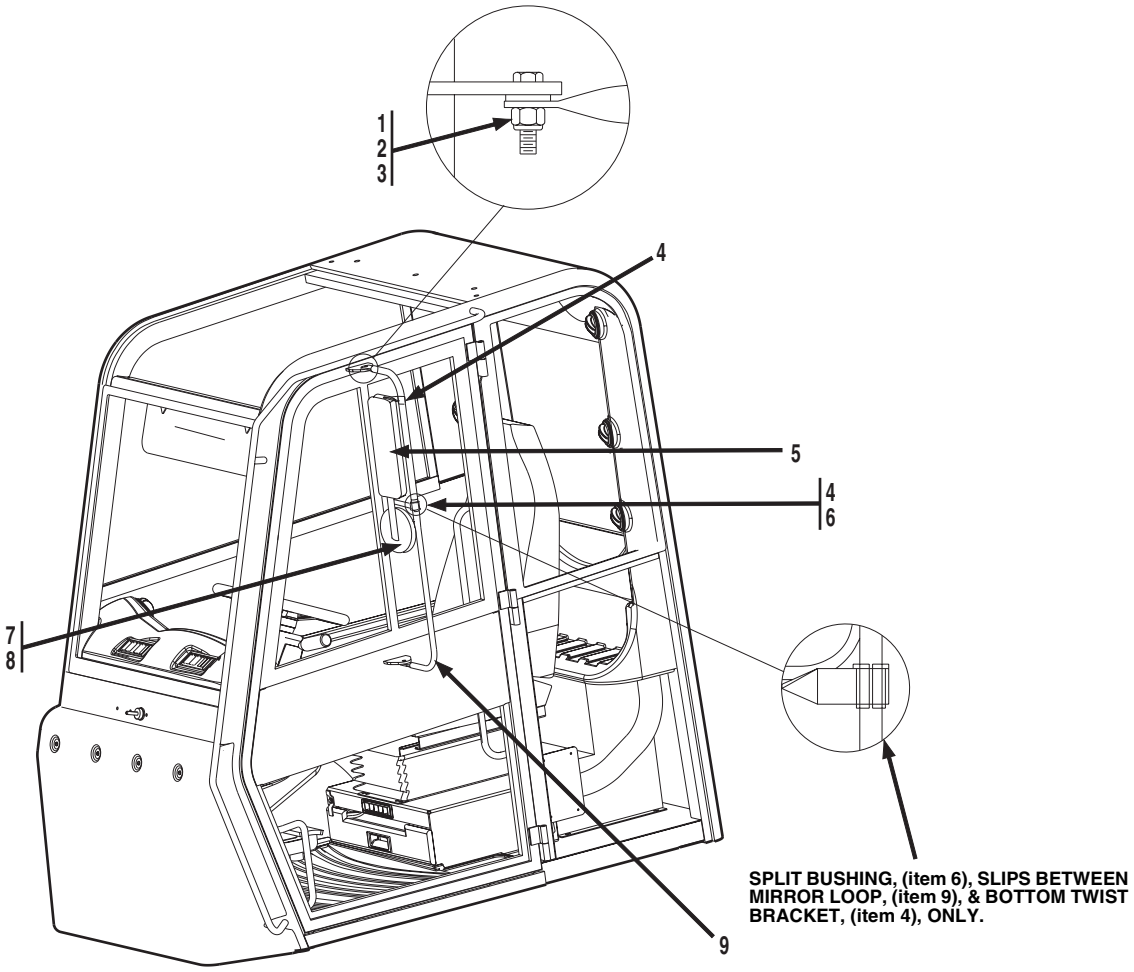
**Figure 1-1 Frame Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80486009 | 1 | BUMPER WELDMENT | |
| 2 | 88411112 | 8 | ROUND HD CARRIAGE BOLT, 1/2-13X1-1/4 | |
| 3 | 80481047 | 2 | BUMPER BRACKET | |
| 4 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 5 | 77143014 | 10 | WHIZ-LOK NUT, 1/2-13 | |
| 6 | 88201069 | 20 | HEX HD CAPSCREW, 1/2-13X2, GR5 | |
| 7 | 88501008 | 10 | HEX NUT, 1/2-13 | |
| 8 | 88561006 | 20 | FLATWASHER, 1/2 | |
| 9 | 80481048 | 2 | BUMPER BRACKET | |
| 10 | 80386103 | 1 | FRAME WELDMENT, 4x2 | |
| | 80386104 | 1 | FRAME WELDMENT, 4x4 | |
| 11 | 80386112 | 1 | BOOM REST WELDMENT | |
| 12 | 80381315 | 1 | AIR DEFLECTER | |
| 13 | 77143003 | 3 | WHIZ-LOK SCREW, 5/16-18X5/8 | |

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**Figure 1-2 Mirrors & Grab Rails**



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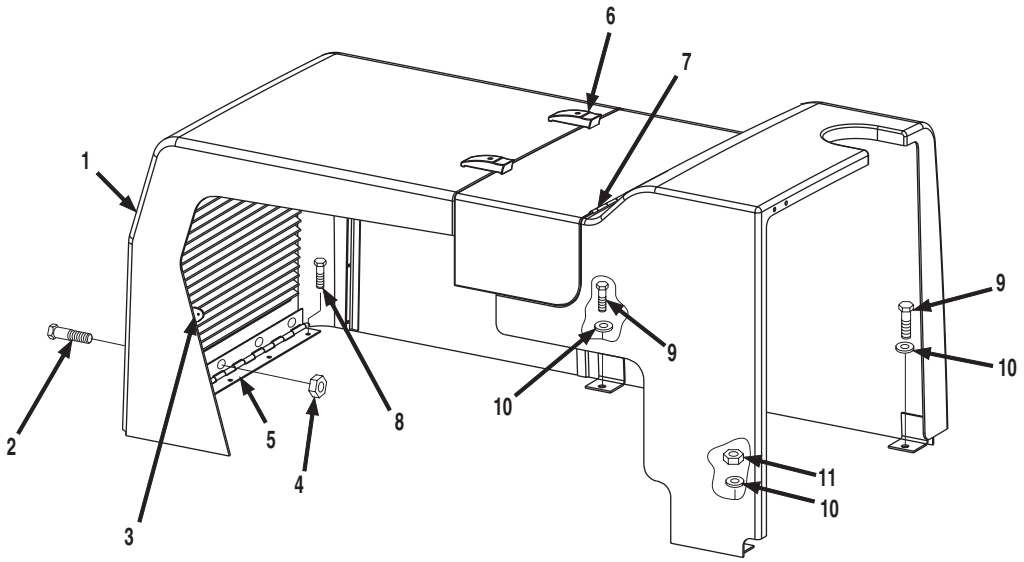
**Figure 1-2 Mirrors & Grab Rails**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 88521206 | 1 | HEX LOCKNUT, 3/8-16 | |
| 2 | 88201036 | 1 | HEX HD CAPSCREW, 3/8-16X1 1/4, GR5 | |
| 3 | 88561109 | 1 | FLAT WASHER, 3/8 | |
| 4 | 83953128 | 2 | TWIST BRACKET | |
| 5 | 80383269 | 1 | MIRROR | |
| 6 | 80383285 | 1 | SPLIT BUSHING | |
| 7 | 86983693 | 1 | CONVEX MIRROR | |
| 8 | 77023013 | 1 | PIVOT BOLT MOUNT | |
| 9 | 80383270 | 1 | MIRROR LOOP | |

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**Figure 1-3 Engine Cover**



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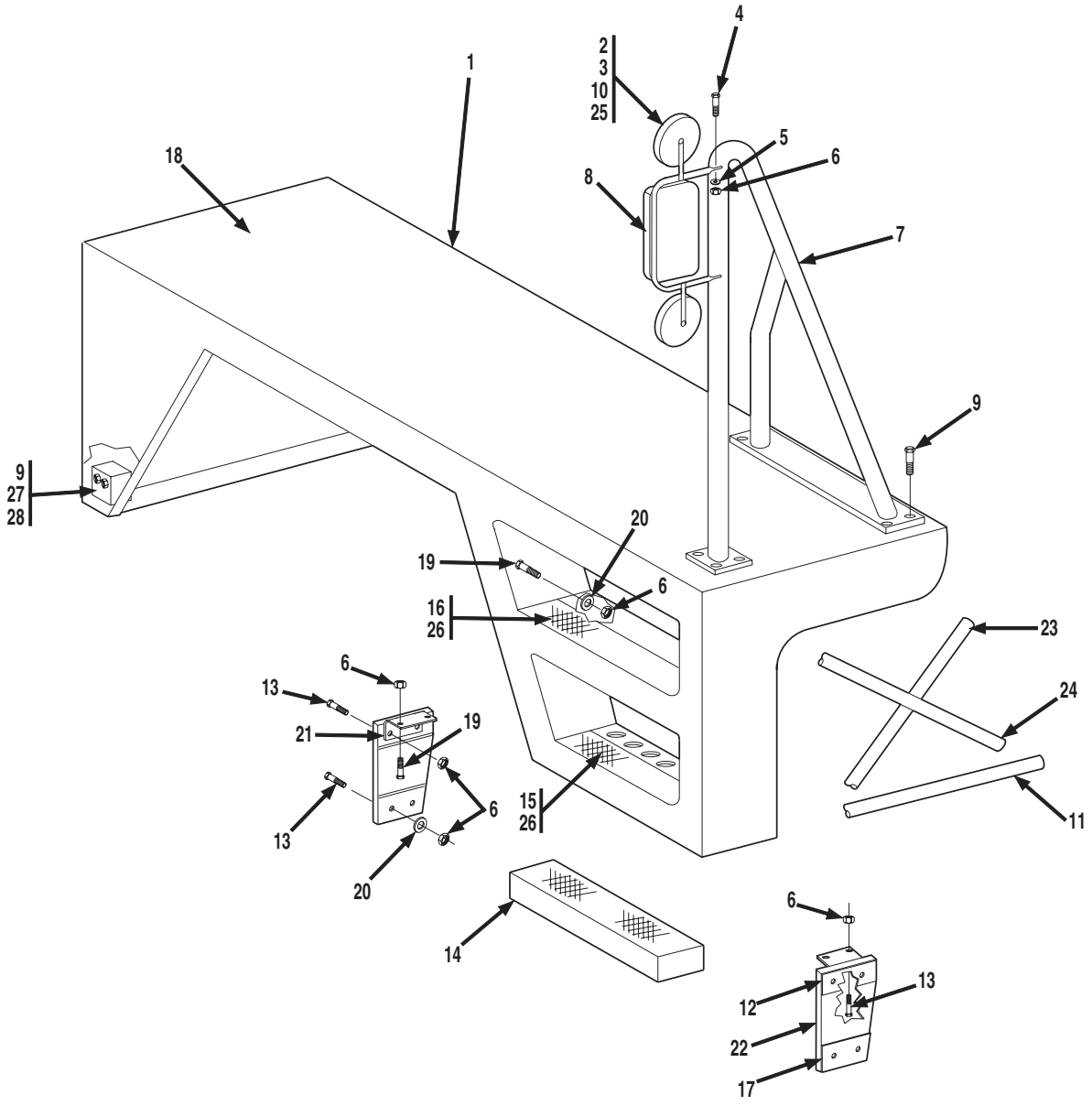
**Figure 1-3 Engine Cover**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80383046 | 1 | ENGINE COVER, (includes items 2 thru 7) | |
| 2 | 80384162 | 5 | BOLT, 5-3/8X1/2 | |
| 3 | 80384163 | 1 | CABLE TAB | |
| 4 | 80384164 | 5 | NUT, 5-3/8 | |
| 5 | 80384165 | 1 | HINGE | |
| 6 | 80383234 | 2 | LATCH | |
| 7 | 80384166 | 1 | HINGE | |
| 8 | 80973025 | 5 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 9 | 80973096 | 2 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 10 | 88561005 | 3 | FLAT WASHER, 7/16 | |
| 11 | 77143015 | 3 | WHIZ-LOK NUT, 3/8-16 | |

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**Figure 1-4 R.H. Fender & Mirrors**



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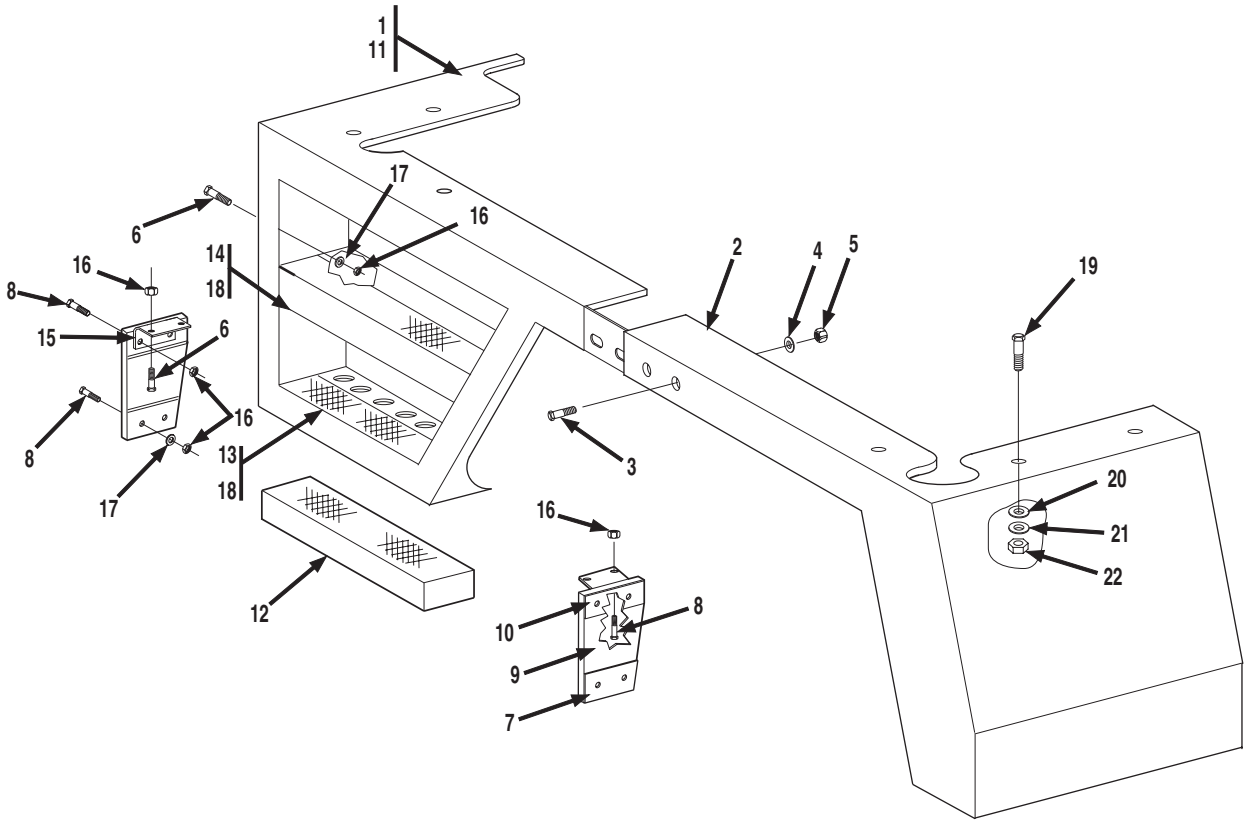
**Figure 1-4 R.H. Fender & Mirrors**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80485014 | 1 | FENDER WELDMENT, R.H., (includes items 6, 12 thru 22 & 26) | |
| 2 | 86983693 | 2 | CONVEX MIRROR | |
| 3 | 77383672 | 2 | MIRROR MOUNT | |
| 4 | 88201036 | 1 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 5 | 88561109 | 1 | FLAT WASHER, 3/8 | |
| 6 | 88521206 | 21 | HEX LOCKNUT, 3/8-16 | |
| 7 | 80383265 | 1 | GRAB RAIL | |
| 8 | 80383336 | 1 | MIRROR & LOOP ASSY | |
| 9 | 77143004 | 12 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |
| 10 | 88521305 | 4 | HEX LOCKNUT, 5/16-18 | |
| 11 | 80383108 | 1 | FENDER BRACE | |
| 12 | 80271316 | 2 | CAP PLATE | |
| 13 | 80973096 | 11 | WHIZ-LOK SCREW 3/8-16X1-1/2 | |
| 14 | 80383101 | 1 | STAIR TREAD, 18.5 | |
| 15 | 80383311 | 1 | STAIR TREAD, 15.5 | |
| 16 | 80383287 | 1 | STAIR TREAD, 24.0 | |
| 17 | 80271315 | 2 | CAP PLATE | |
| 18 | 80486007 | 1 | STEP WELDMENT, R.H. | |
| 19 | 80973025 | 10 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 20 | 88561004 | 6 | FLAT WASHER, 3/8 | |
| 21 | 80381220 | 2 | STEP ANGLE | |
| 22 | 80273104 | 2 | STEP SUPPORT | |
| 23 | 80383109 | 1 | FENDER BRACE | |
| 24 | 80383251 | 1 | FENDER BRACE | |
| 25 | 91363018 | 2 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 26 | 80381408 | AR | SHIM | |
| 27 | 80381111 | 1 | SUPPORT PLATE | |
| 28 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |

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**Figure 1-5 L.H. Fender**



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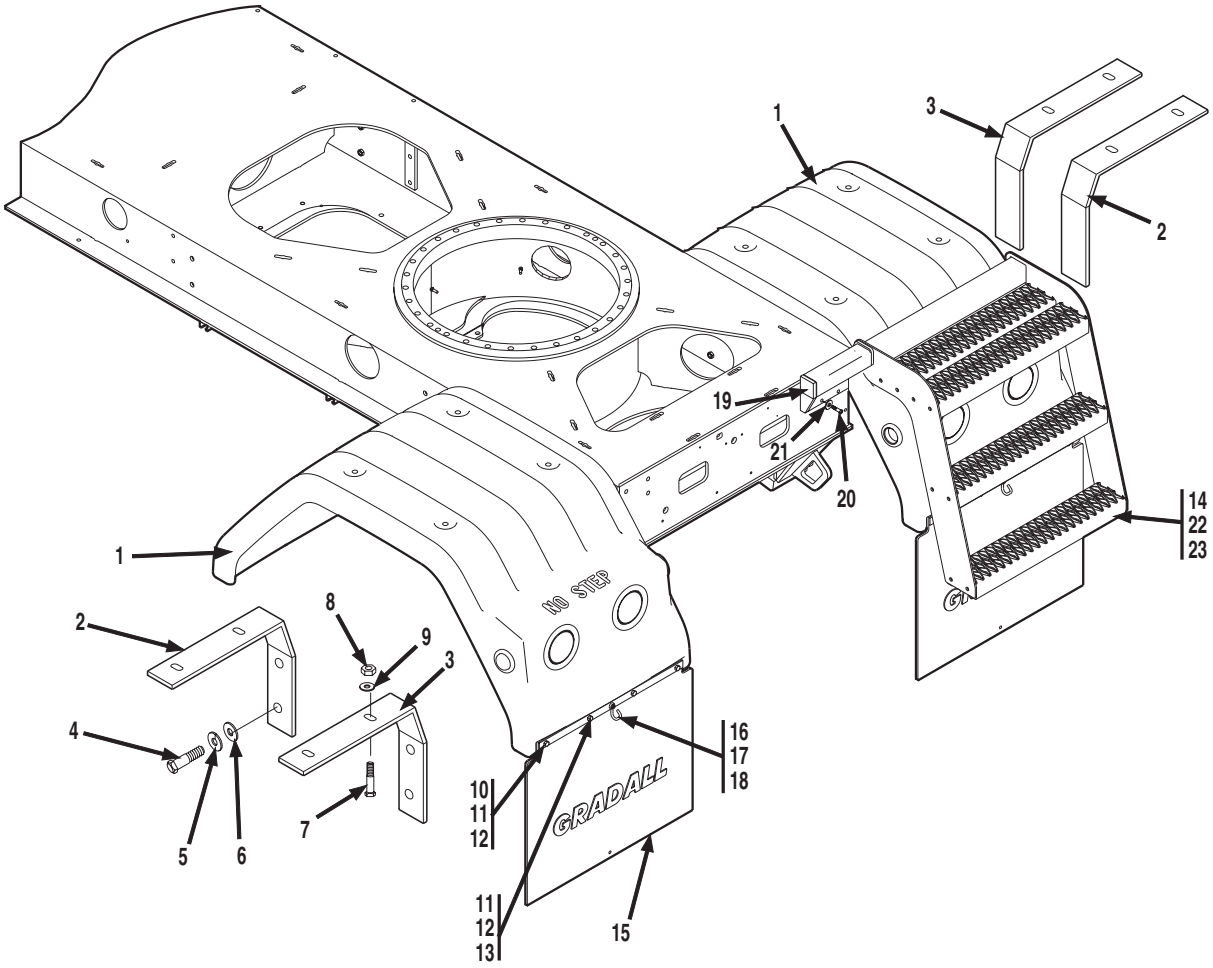
**Figure 1-5 L.H. Fender**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80485009 | 1 | FRONT FENDER ASSY, L.H., (includes items 7 thru 18) | |
| 2 | 80486004 | 1 | REAR FENDER WELDMENT, L.H. | |
| 3 | 88411036 | 2 | ROUND HD CARRIAGE BOLT, 5/16-18X3/4 | |
| 4 | 88551010 | 2 | LOCKWASHER, 5/16 | |
| 5 | 88501005 | 2 | HEX NUT, 5/16-18 | |
| 6 | 80973025 | 11 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 7 | 80271315 | 2 | CAP PLATE | |
| 8 | 80973096 | 9 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 9 | 80273104 | 2 | STEP SUPPORT | |
| 10 | 80271316 | 2 | CAP PLATE | |
| 11 | 80486003 | 1 | FRONT FENDER WELDMENT, L.H. | |
| 12 | 80383101 | 1 | STAIR TREAD, 18.5 | |
| 13 | 80383311 | 1 | STAIR TREAD, 15.5 | |
| 14 | 80383287 | 1 | STAIR TREAD, 24.0 | |
| 15 | 80381220 | 2 | STEP ANGLE | |
| 16 | 88521206 | 20 | HEX LOCKNUT, 3/8-16 | |
| 17 | 88561004 | 6 | FLAT WASHER, 3/8 | |
| 18 | 80381408 | AR | SHIM | |
| 19 | 80973096 | 6 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 20 | 80481030 | 6 | FENDER SPACER | |
| 21 | 88561006 | 6 | FLAT WASHER, 1/2 | |
| 22 | 77143015 | 6 | WHIZ-LOK NUT, 3/8-16 | |

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**Figure 1-6 Rear Fender**



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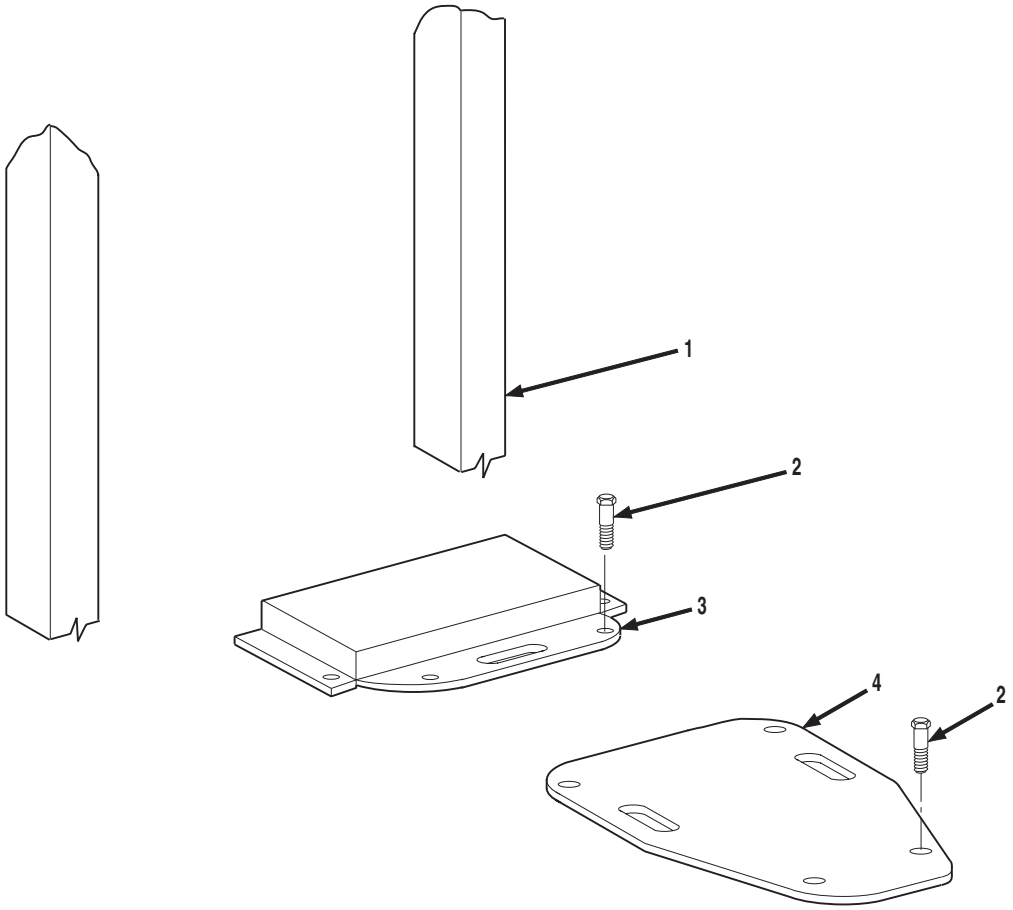
**Figure 1-6 Rear Fender**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80383290 | 2 | REAR FENDER | |
| 2 | 80386065 | 2 | FENDER BRACKET | |
| 3 | 80386064 | 2 | FENDER BRACKET | |
| 4 | 88201097 | 4 | HEX HD CAPSCREW, 5/8-11X2, GR5 | |
| 5 | 88551015 | 4 | LOCKWASHER, 5/8 | |
| 6 | 88561113 | 4 | FLAT WASHER, 5/8 | |
| 7 | 88201074 | 4 | HEX HD CAPSCREW, 1/2-13X3-1/4, GR5 | |
| 8 | 88521308 | 4 | NUT, 1/2-13 | |
| 9 | 88561006 | 4 | FLAT WASHER, 1/2 | |
| 10 | 88201027 | 2 | HEX HD CAPSCREW, 5/16-18X2-3/4, GR5 | |
| 11 | 88561003 | 4 | FLAT WASHER, 5/16 | |
| 12 | 88521205 | 4 | HEX LOCKNUT, 5/16-18 | |
| 13 | 88201025 | 2 | HEX HD CAPSCREW, 5/16-18X2-1/4, GR5 | |
| 14 | 80383287 | 4 | STAIR STEP | |
| 15 | 80383355 | 1 | MUDFLAP, 4X2 | |
| | 80383356 | 1 | MUDFLAP, 4X4 | |
| 16 | 83483597 | 1 | COLD CLOSE LINK | |
| 17 | 88201003 | 1 | HEX HD CAPSCREW, 1/4-20X3/4, GR5 | |
| 18 | 88521304 | 1 | HEX LOCKNUT, 1/4-20 | |
| 19 | 80486027 | 1 | REAR STEP WELDMENT | |
| 20 | 88201095 | 4 | HEX HD CAPSCREW, 5/8-11X1-1/2, GR5 | |
| 21 | 88551015 | 4 | LOCKWASHER, 5/8 | |
| 22 | 80973025 | 16 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 23 | 77143015 | 16 | WHIZ-LOK NUT, 3/8-16 | |

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**Figure 1-7 Deck & Cover**



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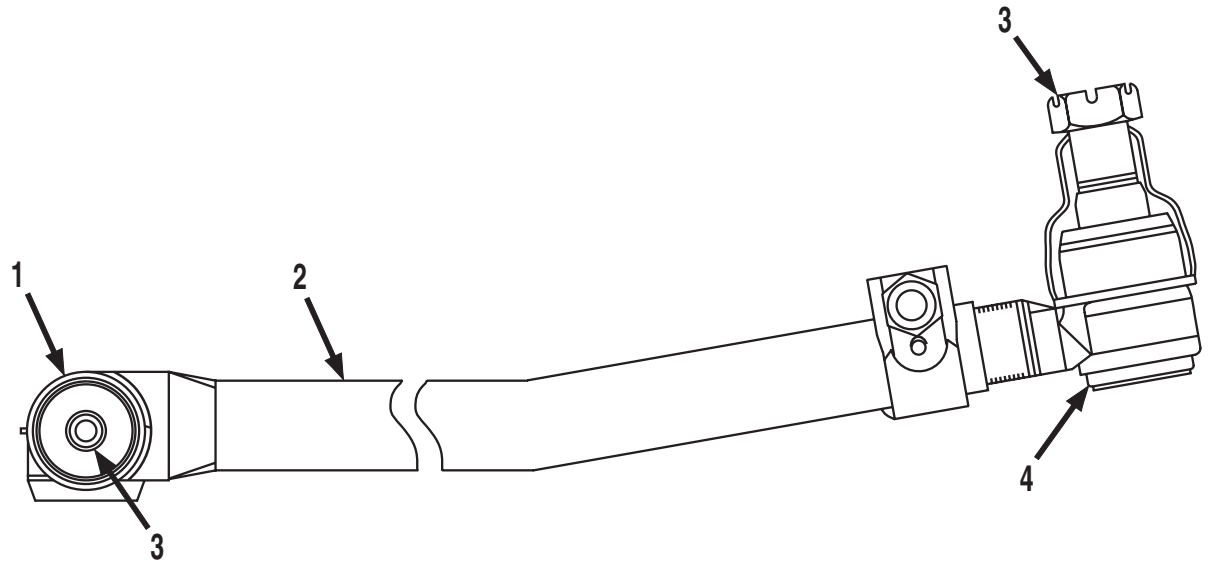
**Figure 1-7 Deck & Cover**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | BOOM REST WELDMENT, (see Figure 1-1 for details) | |
| 2 | 80973025 | 8 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 3 | 80381265 | 1 | TRANSMISSION COVER | |
| 4 | 80381193 | 1 | DECK COVER | |

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**Figure 1-8 Steering Drag Link**



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**Figure 1-8 Steering Drag Link**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383040 | 1 | DRAG LINK, (includes all items) | |
| 1 | 80384100 | 1 | NON ADJUSTABLE SOCKET | |
| 2 | 80384101 | 1 | SHAFT | |
| 3 | 77384760 | 2 | HEX CASTLE NUT | |
| 4 | 80384102 | 1 | ADJUSTABLE SOCKET | |

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**Figure 1-9 Left Side Cover**

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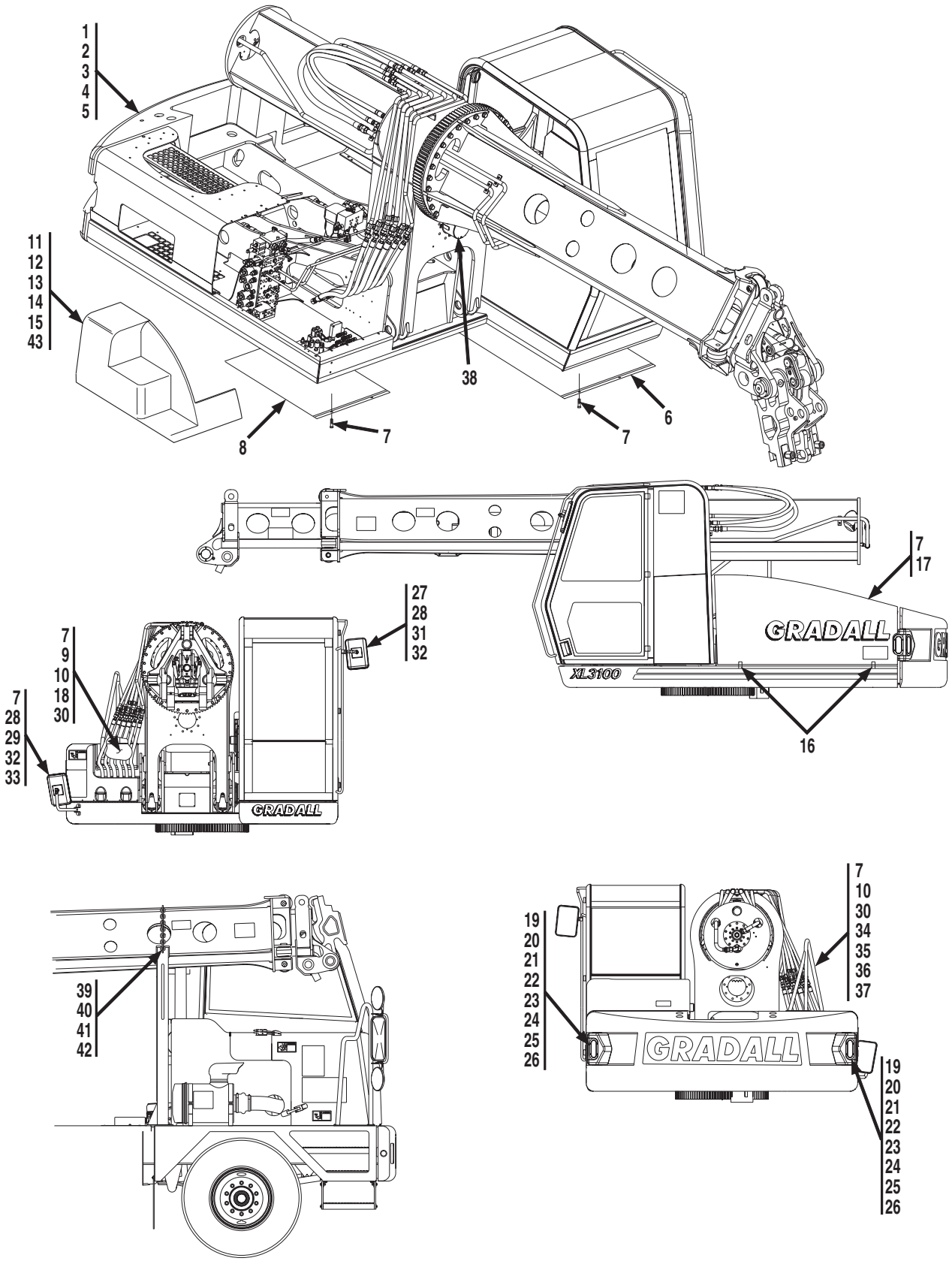
**Figure 1-9 Left Side Cover**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 1-10 Rotating Platform**



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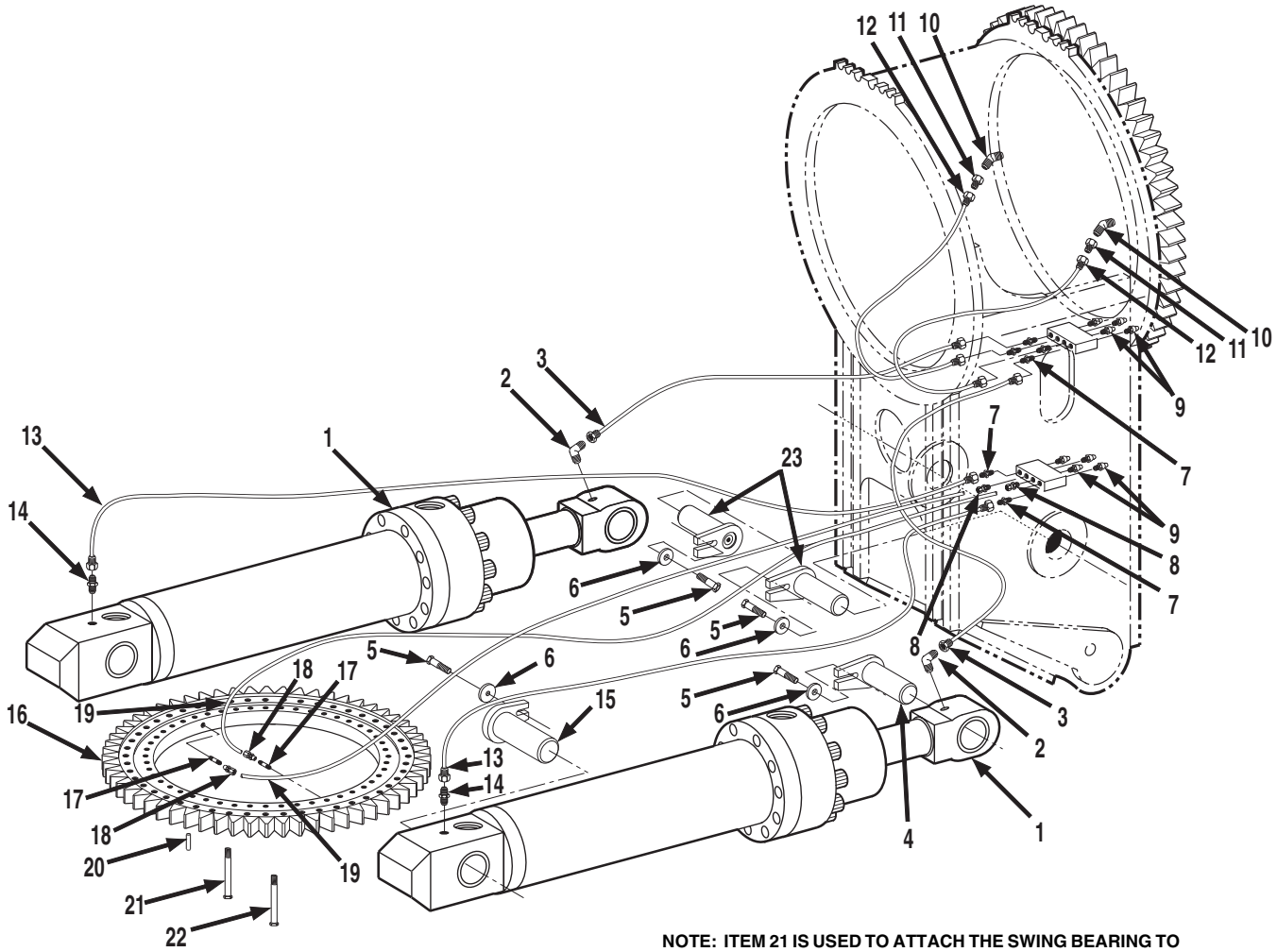
**Figure 1-10 Rotating Platform**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80340002 | 1 | COUNTERWEIGHT | |
| 2 | 83201175 | 4 | HEX HD CAPSCREW, 1-8X16, GR8 | |
| 3 | 80241137 | 4 | SPECIAL WASHER | |
| 4 | 80341051 | 2 | MOUNTING NUT | |
| 5 | 80341133 | AR | COUNTERWEIGHT SHIM | |
| 6 | 80371134 | 1 | CAB BELL PAN | |
| 7 | 80973025 | 30 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 8 | 80371200 | 1 | VALVE BELL PAN | |
| 9 | 80373019 | 1 | INSIDE VALVE COVER, (not shown), (includes item 18) | |
| 10 | 77143015 | 8 | WHIZ-LOK NUT, 3/8-16, (4 ea. for inside cover with 4 ea. of item 7) | |
| 11 | 80373036 | 1 | VALVE COVER | |
| 12 | 77143004 | 4 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |
| 13 | 80371140 | AR | SPACER, 1/4 | |
| 14 | 80371133 | AR | SPACER, 3/8 | |
| 15 | 80371141 | AR | SPACER, 1/2 | |
| 16 | 80373117 | 2 | CLAMP | |
| 17 | 80373079 | 1 | ENGINE COVER, (includes item 16) | |
| 18 | 80363153 | 1 | GAS SHOCK | |
| 19 | 80473001 | 2 | LIGHT HOUSING | |
| 20 | 83683258 | 2 | GROMMET | |
| 21 | 80373158 | 2 | SPRING | |
| 22 | 80373175 | 4 | OVAL LED LIGHT, (includes items 24, 25 & 26) | |
| 23 | 80373157 | 16 | PAN HD PHILIPS SCREW, #8-32X3/8 | |
| 24 | 80374114 | 1 | CAP CONNECTOR | |
| 25 | 80374115 | 2 | TAB CONNECTOR | |
| 26 | 80374116 | 1 | WIRE SEAL | |
| 27 | 80263052 | 1 | MIRROR MOUNT, (requires item 28), **(4X2 Before S/N 3120016), (4X4 Before S/N 3140114)** | |
| 28 | 80263054 | 2 | MIRROR, (requires items 27 or 29), **(4X2 Before S/N 3120016), (4X4 Before S/N 3140114)** | |
| 29 | 80263051 | 1 | MIRROR MOUNT, (requires item 28), **(4X2 Before S/N 3120016), (4X4 Before S/N 3140114)** | |
| 30 | 80973096 | 4 | WHIZ-LOK SCREW, 3/8X1-1/2 | |
| 31 | 80363197 | 1 | MIRROR MOUNT, (requires item 32), **(4X2 S/N 3120016 & After), (4X4 S/N 3140114 & After)** | |
| 32 | 80363195 | 2 | MIRROR, (requires items 31 or 33), **(4x2 S/N 3120016 & After), (4X4 S/N 3140114 & After)** | |
| 33 | 80363196 | 1 | MIRROR MOUNT, (requires item 32), **(4x2 S/N 3120016 & After), (4X4 S/N 3140114 & After)** | |
| 34 | 80373022 | 1 | VALVE SIDE GRAB RAIL | |
| 35 | 80371144 | AR | SPACER, 1/8 | |
| 36 | 80371145 | AR | SPACER, 1/4 | |
| 37 | 80371146 | AR | SPACER, 3/8 | |
| 38 | 80423012 | 1 | PINION COVER | |
| 39 | 80385062 | 1 | BOOM TIE DOWN ASSY, (includes items 40 thru 42) | |
| 40 | 85621047 | 1 | TURNBUCKLE | |
| 41 | 80383303 | 1 | CHAIN | |
| 42 | 83621026 | 2 | COLD SHUT LINK | |
| 43 | 77143006 | 4 | WHIZ-LOK NUT, 5/16-18 | |

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**Figure 1-11 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System**




NOTE: ITEM 21 IS USED TO ATTACH THE SWING BEARING TO THE UNDERCARRIAGE. ITEM 22 IS USED TO ATTACH THE UPPERSTRUCTURE TO THE UNDERCARRIAGE.

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**Figure 1-11 Swing Bearing, Cradle & Hoist Cylinder Mounting & Lube System**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | HOIST CYLINDER ASSY, (see Figure 9-1 for details) | |
| 2 | 88661102 | 2 | MALE ELBOW, 90 DEGREES, 1/8X3/16 TUBE | |
| 3 | 84718297 | 2 | HOSE ASSY | |
| 4 | 80326011 | 2 | PIN WELDMENT | |
| 5 | 88201065 | 6 | HEX HD CAPSCREW, 1/2-13X1, GR5 | |
| 6 | 80321089 | 6 | SPECIAL WASHER | |
| 7 | 88661002 | 6 | MALE CONNECTOR, 1/8X3/16 TUBE | |
| 8 | 86881273 | 2 | TUBE FITTING, STRAIGHT, 1/8 | |
| 9 | 88671001 | 8 | LUBE FITTING, STRAIGHT, 1/8 | |
| 10 | 88661136 | 2 | MALE ELBOW, 45 DEGREES, 1/8 | |
| 11 | 88691302 | 2 | STRAIGHT CONNECTOR | |
| 12 | 84718482 | 2 | HOSE ASSY | |
| 13 | 84718297 | 2 | HOSE ASSY | |
| 14 | 88661002 | 2 | MALE CONNECTOR, 1/8X3/16 TUBE | |
| 15 | 80926012 | 2 | PIN WELDMENT | |
| 16 | 80323001 | 1 | SWING GEAR | |
| 17 | 88701023 | 2 | PIPE NIPPLE, 1/8 | |
| 18 | 83683435 | 2 | TUBE FITTING, 1/4 | |
| 19 | | AR | NYLON TUBING, 1/4 | |
| 20 | 88631684 | 1 | DOWEL PIN, 3/4X2 | |
| 21 | 83201058 | 30 | HEX HD CAPSCREW, 3/4-10X3-3/4, GR8, (lubricate & torque to 340-365 lb-ft) | |
| 22 | 83201118 | 30 | HEX HD CAPSCREW, 3/4-10X5-1/2, GR8, (lubricate & torque to 340-365 lb-ft) | |
| 23 | 80626014 | 2 | PIN WELDMENT | |

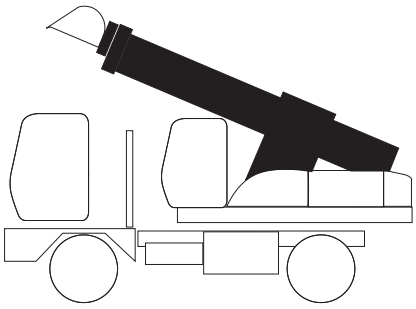
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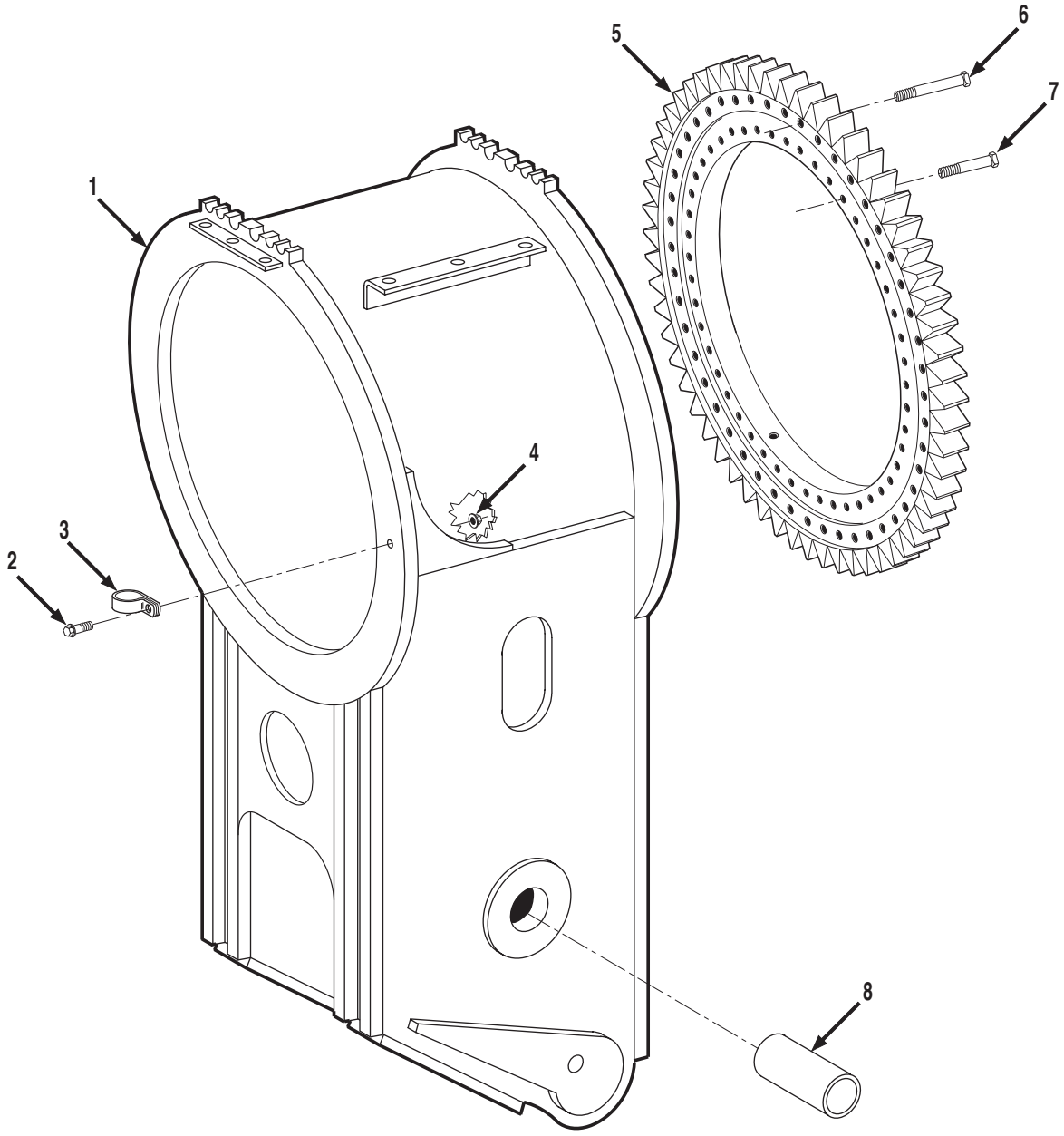
# SECTION 2
# BOOM



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**Figure 2-1 Boom Cradle**



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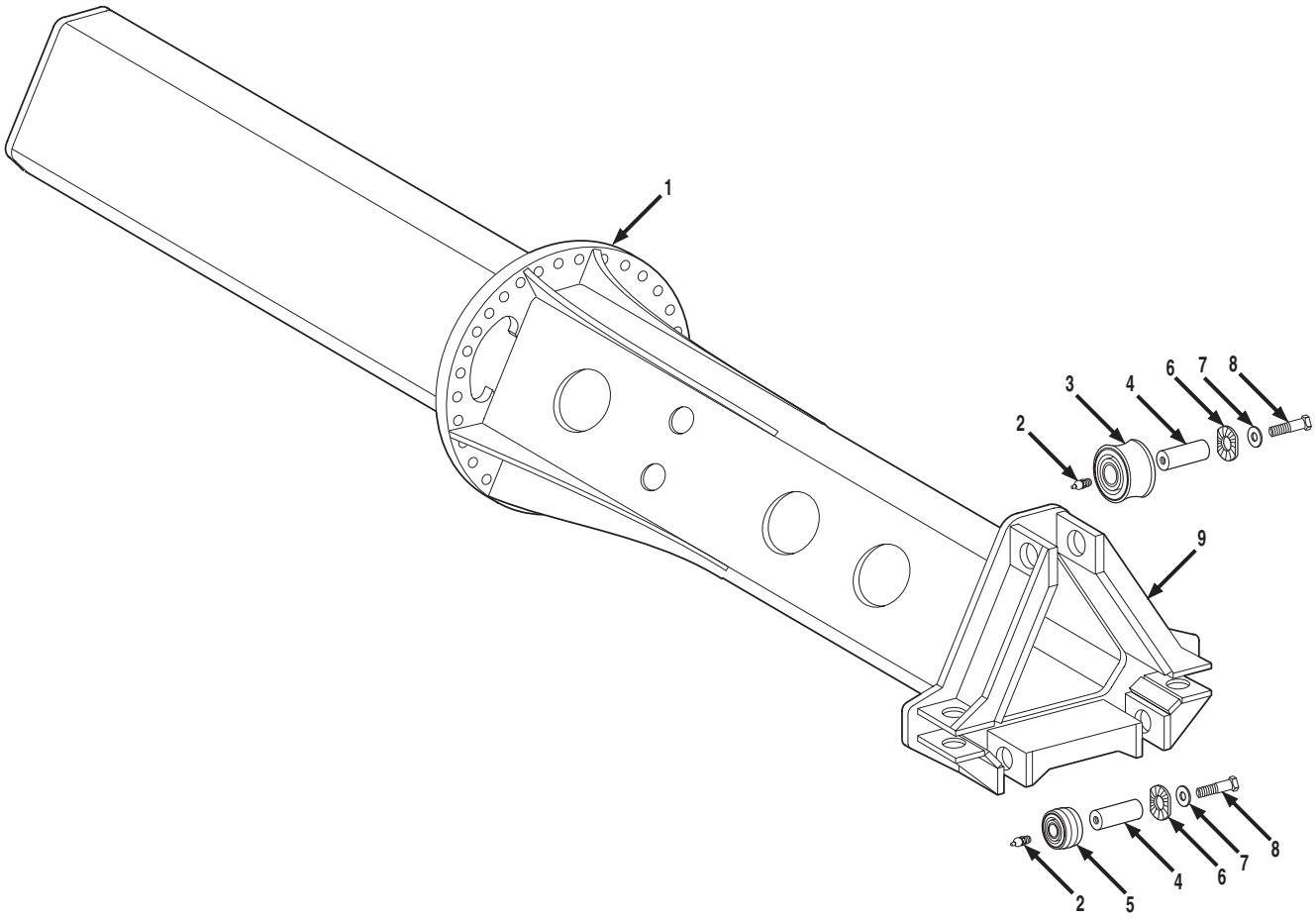
**Figure 2-1 Boom Cradle**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80326002 | 1 | BOOM CRADLE | |
| 2 | 80973096 | 1 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 3 | 86521144 | 1 | SUPPORT CLAMP | |
| 4 | 77143015 | 1 | WHIZ-LOK NUT, 3/8-16 | |
| 5 | 80323001 | 1 | TILT GEAR | |
| 6 | 80323013 | 30 | HEX HD CAPSCREW, 3/4-10X5, GR8 | |
| 7 | 83201058 | 28 | HEX HD CASPCREW, 3/4-10X3-3/4, GR8 | |
| 8 | 80923009 | 2 | BUSHING | |

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**Figure 2-2 Main Boom Assembly**



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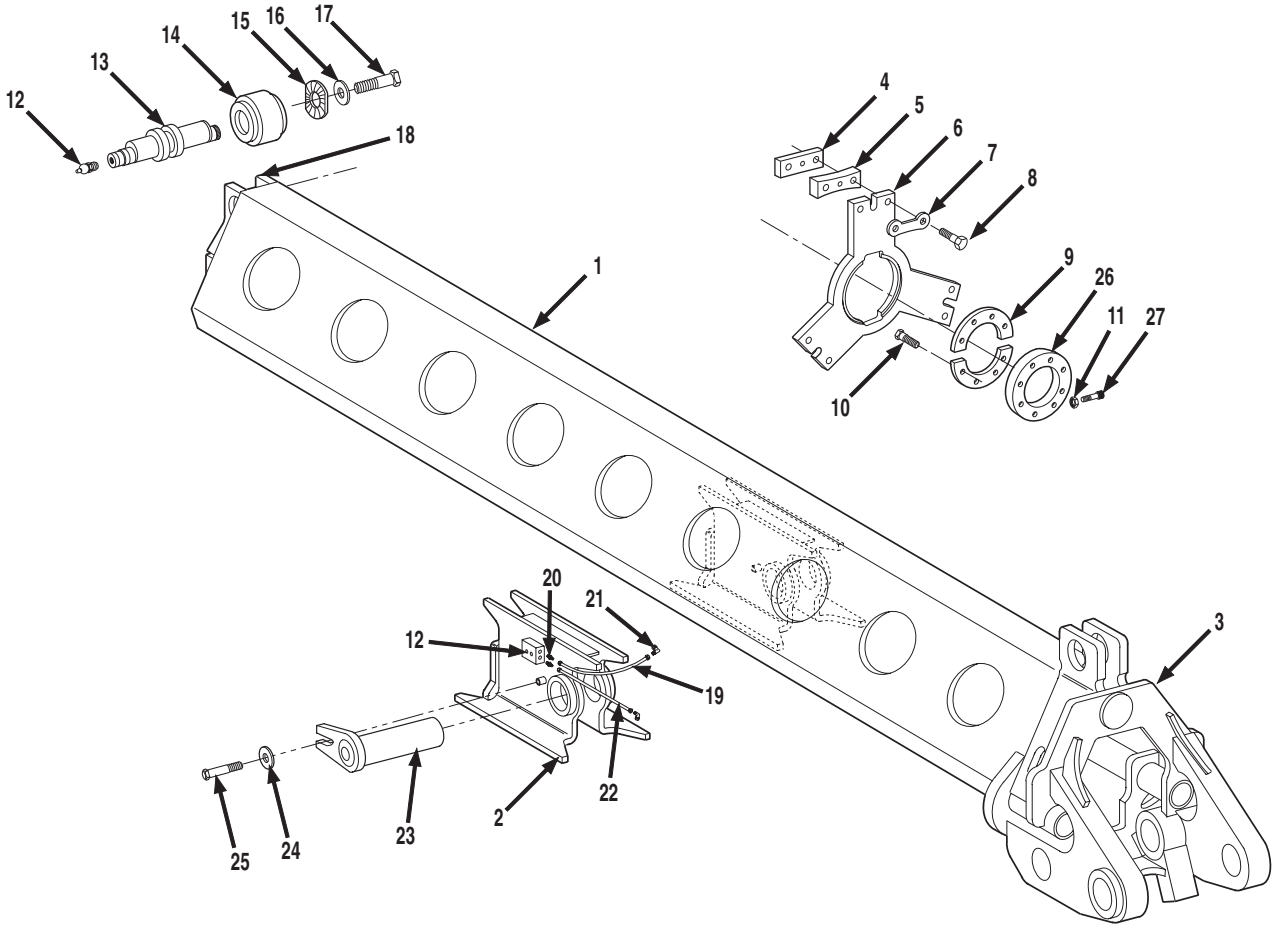
**Figure 2-2 Main Boom Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80326015 | 1 | MAIN BOOM WELDMENT | |
| 2 | 88671001 | 5 | LUBE FITTING, STRAIGHT, 1/8 | |
| 3 | | Ref | BOOM ROLLER ASSY, CONCAVE, (see Figure 2-4 for details) | |
| 4 | 83421214 | 5 | ECCENTRIC SHAFT | |
| 5 | | Ref | BOOM ROLLER ASSY, CONVEX, (see Figure 2-4 for details) | |
| 6 | 83421165 | 5 | SERRATED WASHER | |
| 7 | 85881153 | 5 | WASHER | |
| 8 | 24431384 | 5 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 9 | 80326010 | 1 | BOOM ROLLER BRACKET | |

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**Figure 2-3 Telescope Boom Assembly**




**NOTE: ITEM 9 CYLINDER RETAINER, MUST BE INSTALLED BY ROTATING EACH SET OF (2) RETAINERS ONE BOLT HOLE WITH EACH SUCCEEDING SET.**

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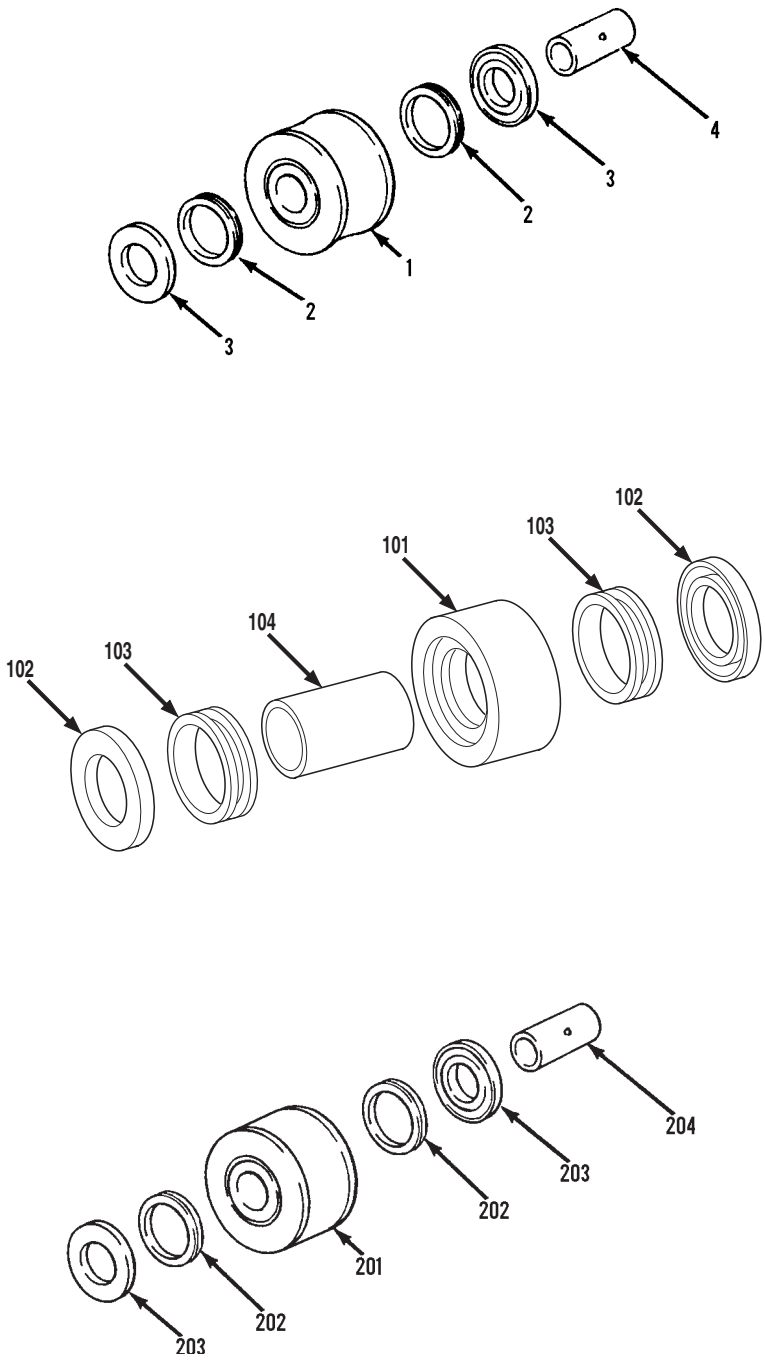
**Figure 2-3 Telescope Boom Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80326021 | 1 | TELESCOPE BOOM WELDMENT, (includes items 2, 3 & 18) | |
| 2 | 80326006 | 1 | CYLINDER MOUNT | |
| 3 | 80326005 | 1 | TOOL EYE WELDMENT | |
| 4 | 80221280 | 3 | THREADED BAR | |
| 5 | 80323039 | 3 | PAD | |
| 6 | 80321150 | 1 | SPIDER | |
| 7 | 80221278 | 3 | KEEPER | |
| 8 | 83201149 | 6 | HEX HD CAPSCREW, 1/2-13X3, GR5 | |
| 9 | 80321081 | 6 | CYLINDER RETAINER | |
| 10 | 80323020 | 6 | HEX HD CAPSCREW, 5/8-11X2, GR8 (lubricate & torque to 200-215 lb-ft) | |
| 11 | 88681300 | 1 | HEX LOCKNUT, 7/16-14 | |
| 12 | 88671001 | 5 | LUBE FITTING, STRAIGHT, 1/8 | |
| 13 | 77321063 | 3 | ECCENTRIC SHAFT | |
| 14 | 77325003 | Ref | BOOM ROLLER ASSY, FLAT, (see Figure 2-4 for details) | |
| 15 | 77121178 | 3 | SERRATED WASHER | |
| 16 | 77121225 | 3 | WASHER | |
| 17 | 83201049 | 3 | HEX HD CAPSCREW, 1/2-13X1, GR5 | |
| 18 | 80326012 | 1 | ROLLER BRACKET | |
| 19 | 84718553 | 1 | HOSE ASSY | |
| 20 | 88661002 | 2 | MALE CONNECTOR, 1/8X3/16 TUBE | |
| 21 | 88661102 | 2 | MALE ELBOW, 90 DEGREES, 1/8X1/4 TUBE | |
| 22 | 84718296 | 1 | HOSE ASSY | |
| 23 | 80926014 | 1 | PIN WELDMENT | |
| 24 | 83621283 | 1 | SPECIAL WASHER | |
| 25 | 88201063 | 1 | HEX HD CAPSCREW, 1/2-13X3/4, GR5 | |
| 26 | 80423030 | 1 | SPIDER RETAINER | |
| 27 | 88212248 | 1 | SOCKET HD CAPSCREW, 7/16-14X2-1/2, GR8 | |

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**Figure 2-4 Boom Roller Assemblies**



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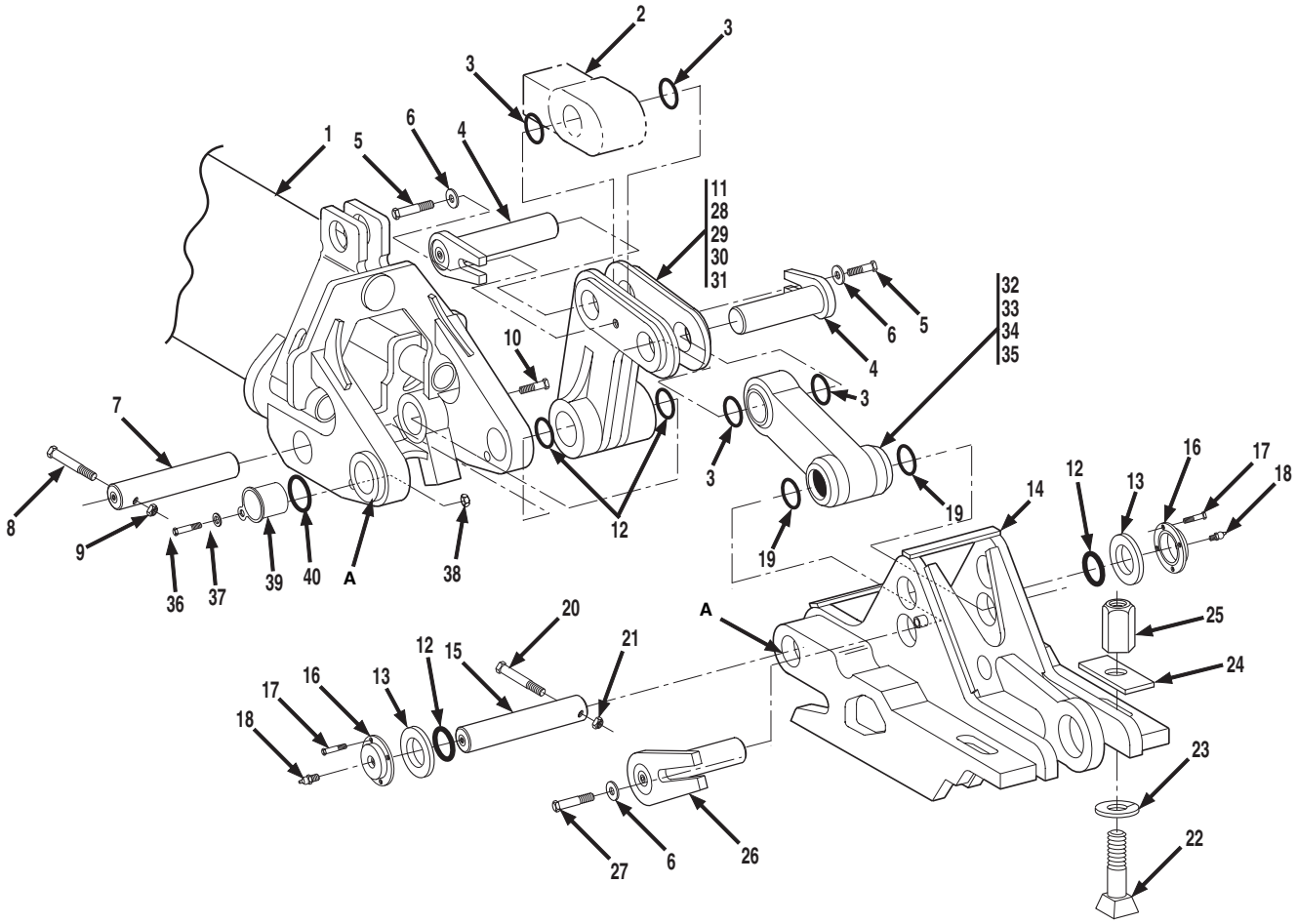
**Figure 2-4 Boom Roller Assemblies**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83625044 | 1 | ROLLER ASSY, CONCAVE, (includes items 2 thru 4) | |
| 2 | 83621262 | 2 | THRUST WASHER | |
| 3 | 83623005 | 2 | FACE SEAL | |
| 4 | 83621145 | 1 | INNER BUSHING | |
| 5 to 100 | Not Used | | | |
| 101 | 77325003 | 1 | BOOM ROLLER ASSY, FLAT, (includes items102 thru 104) | |
| 102 | 83621262 | 2 | THRUST WASHER | |
| 103 | 83623005 | 2 | FACE SEAL | |
| 104 | 77321181 | 1 | INNER BUSHING | |
| 105 to 200 | Not Used | | | |
| 201 | 83625043 | 1 | ROLLER ASSY, CONVEX, (includes items 202 thru 204) | |
| 202 | 83621262 | 2 | THRUST WASHER | |
| 203 | 83623005 | 2 | FACE SEAL | |
| 204 | 83621145 | 1 | INNER BUSHING | |

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**Figure 2-5 Bucket Linkage**



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**Figure 2-5 Bucket Linkage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | TELESCOPE BOOM ASSY, (see Figure 2-3 for details) | |
| 2 | | Ref | TOOL CYLINDER ASSY, (see Figure 9-3 for details) | |
| 3 | 91123029 | 4 | O-RING | |
| 4 | 80926014 | 3 | PIN WELDMENT | |
| 5 | 83201047 | 2 | HEX HD CAPSCREW, 1/2-13X1-3/4, GR8 | |
| 6 | 83621283 | 4 | SPECIAL WASHER | |
| 7 | 80921074 | 1 | PIN, (coat ends of pin with anti-seize) | |
| 8 | 83201156 | 1 | HEX HD CAPSCREW, 5/8-11X7, GR5 | |
| 9 | 88521310 | 1 | HEX LOCKNUT, 5/8-11 | |
| 10 | 83201169 | 1 | HEX HD CAPSCREW, 5/8-11X1 | |
| 11 | 80625003 | 1 | CURVED LINK ASSY, (includes items 28 thru 31) | |
| 12 | 83623019 | 4 | O-RING | |
| 13 | 80321039 | 2 | SPECIAL WASHER | |
| | 80321135 | AR | SPECIAL WASHER | |
| | 80321134 | AR | SPECIAL WASHER | |
| 14 | 80326016 | 1 | BUCKET ADAPTER | |
| 15 | 80321036 | 1 | PIN | |
| 16 | 80321038 | 2 | PIN CAP | |
| 17 | 83201091 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR8 | |
| 18 | 88671001 | 2 | LUBE FITTING, STRAIGHT, 1/8 | |
| 19 | 83623018 | 2 | O-RING | |
| 20 | 83201118 | 1 | HEX HD CAPSCREW, 3/4-10X5-1/2, GR8 | |
| 21 | 88521312 | 1 | HEX LOCKNUT, 3/4-10 | |
| 22 | 80926029 | 2 | WEDGE BOLT WELDMENT | |
| 23 | 88551018 | 2 | LOCKWASHER, 1 | |
| 24 | 80921159 | 2 | RECTANGLE WASHER | |
| 25 | 80921174 | 2 | HIGH NUT, 1 | |
| 26 | 80926012 | 1 | PIN WELDMENT | |
| 27 | 88201063 | 2 | HEX HD CAPSCREW, 1/2-13X3/4, GR5 | |
| 28 | 80423042 | 2 | BUSHING | |
| 29 | 88671008 | 2 | LUBE FITTING, STRAIGHT, 1/4 | |
| 30 | 83621257 | 2 | PIN | |
| 31 | 77133125 | 2 | EXPANDER PLUG | |
| 32 | 80325004 | 1 | STRAIGHT LINK ASSY, (includes items 33 thru 35) | |
| 33 | 88671008 | 1 | LUBE FITTING, STRAIGHT, 1/4-28 | |
| 34 | 80423042 | 3 | BUSHING | |
| 35 | 88671025 | 1 | LUBE FITTING, 45 DEGREES, 1/4 | |
| 36 | 88201042 | 2 | HEX HD CAPSCREW, 3/8-16X2-3/4, GR5 | |
| 37 | 88551011 | 2 | LOCKWASHER, 3/8 | |
| 38 | 88501006 | 2 | HEX NUT, 3/8-16 | |
| 39 | 80323047 | 2 | BUSHING | |
| 40 | 88591118 | 2 | O-RING | |
| | 80325009 | AR | BOOM END KIT, (includes all items except 1, 2, 11, 14 & 28 thru 35) | |

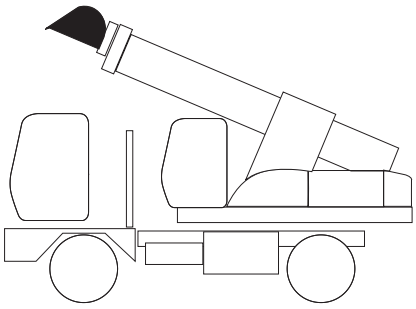
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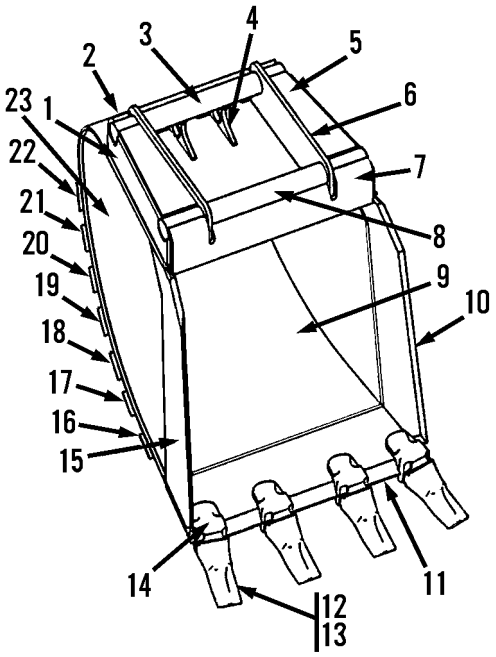
# SECTION 3
# ATTACHMENTS



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**Figure 3-1 36” Excavating Bucket**



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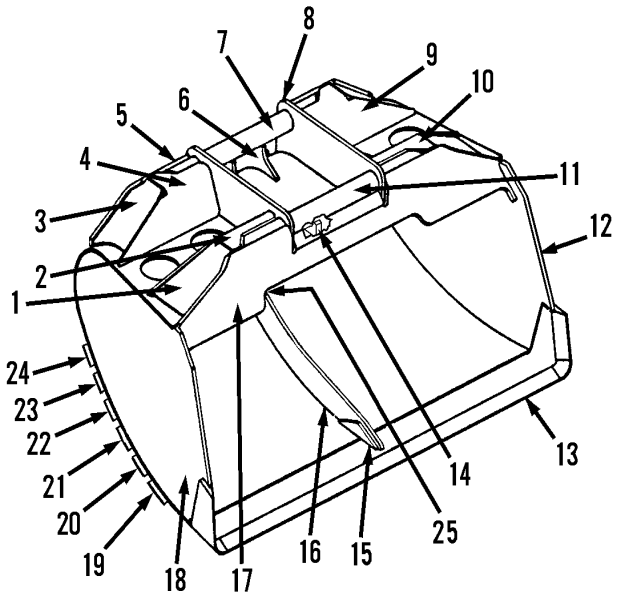
**Figure 3-1 36” Excavating Bucket**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80356002 | 1 | 36” EXCAVATING BUCKET, (includes items 1 thru 23). (.5 Cu. Yd. Struck, .7 Cu. Yd. Heaped) | |
| 1 | 80351012 | 2 | END PLATE | |
| 2 | 80351015 | 1 | REAR STIFFENER | |
| 3 | 80351017 | 1 | REAR PIN | |
| 4 | 80951057 | 4 | INSIDE SUPPORT | |
| 5 | 80351011 | 2 | TOP PLATE | |
| 6 | 80351294 | 2 | OUTER SUPPORT PLATE | |
| 7 | 80351014 | 1 | FRONT STIFFENER | |
| 8 | 80351018 | 1 | FRONT PIN | |
| 9 | 80351016 | 1 | BOTTOM PLATE | |
| 10 | 80651466 | 1 | CUTTING EDGE, L.H. | |
| 11 | 80351019 | 1 | CUTTING EDGE | |
| 12 | 80353002 | 4 | TOOTH | |
| 13 | 80253003 | 4 | PIN | |
| 14 | 80353001 | 4 | TOOTH ADAPTER | |
| 15 | 80651465 | 1 | CUTTING EDGE, R.H. | |
| 16 | 80651121 | 1 | WEAR STRIP | |
| 17 | 80651071 | 1 | WEAR STRIP | |
| 18 | 80251014 | 1 | WEAR STRIP | |
| 19 | 80251013 | 1 | WEAR STRIP | |
| 20 | 80651069 | 1 | WEAR STRIP | |
| 21 | 80651068 | 1 | WEAR STRIP | |
| 22 | 80951105 | 1 | WEAR STRIP | |
| 23 | 80651005 | 2 | SIDE PLATE | |

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**Figure 3-2 60” Ditching Bucket**



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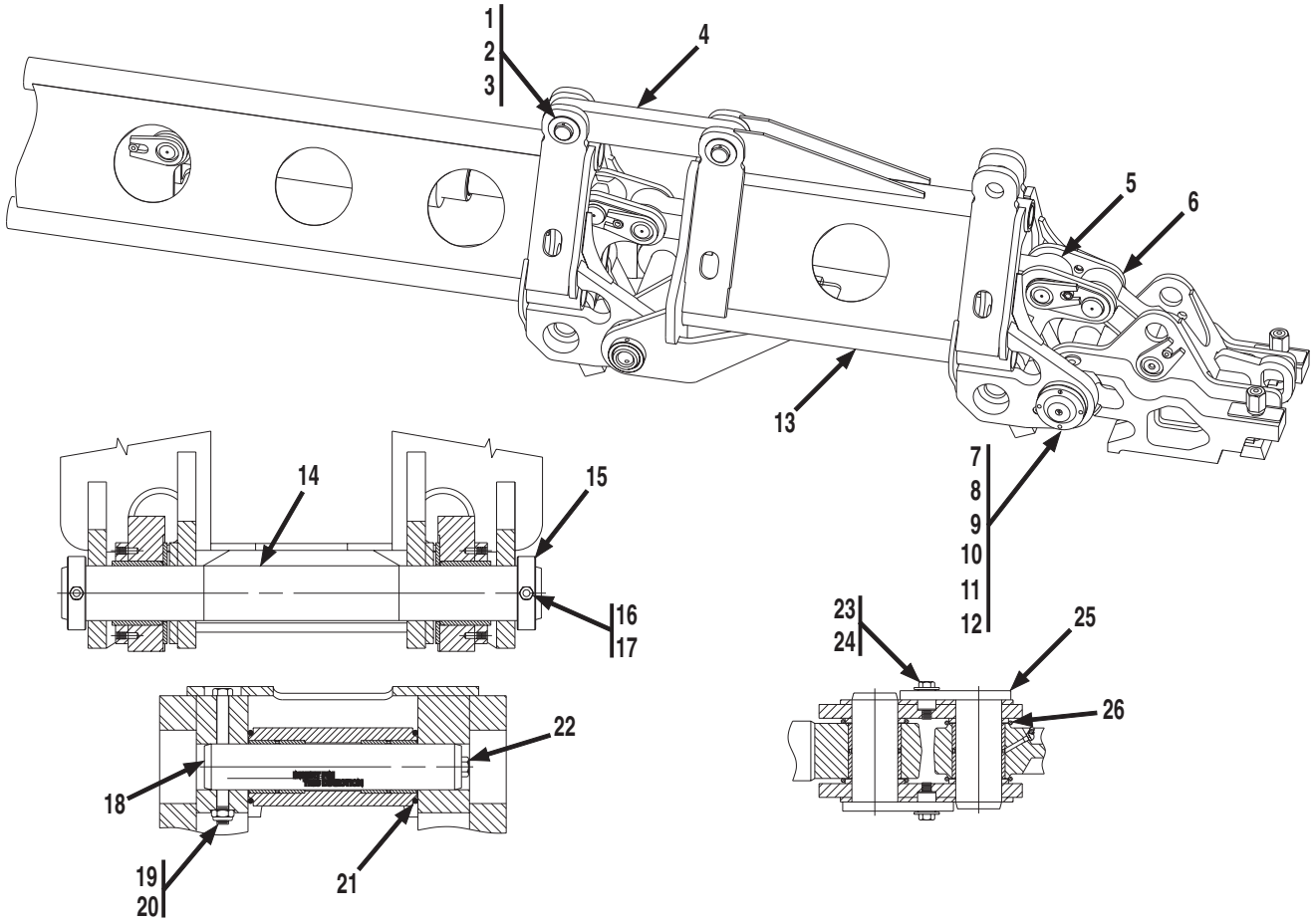
**Figure 3-2 60” Ditching Bucket**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80356004 | 1 | 60” DITCHING BUCKET, (includes all items), (.6 Cu. Yd. Struck, .9 Cu. Yd. Heaped) | |
| 1 | 80351038 | 2 | CAP PLATE | |
| 2 | 80351008 | 1 | BUCKET STIFFENER | |
| 3 | 80351030 | 2 | REAR END CAP | |
| 4 | 80351010 | 1 | BUCKET STIFFENER | |
| 5 | 80351033 | 1 | REAR STIFFENER | |
| 6 | 80351031 | 2 | REAR INNER SUPPORT | |
| 7 | 80951101 | 1 | PIN | |
| 8 | 80351295 | 2 | OUTER REAR SUPPORT | |
| 9 | 80351009 | 1 | BUCKET STIFFENER | |
| 10 | 80351007 | 1 | BUCKET STIFFENER | |
| 11 | 80651054 | 1 | PIN | |
| 12 | 80351037 | 2 | SIDE PLATE | |
| 13 | 80653019 | 1 | CUTTING EDGE | |
| 14 | 80951057 | 2 | INSIDE SUPPORT | |
| 15 | 80651073 | 2 | WEAR PLATE | |
| 16 | 80351036 | 1 | RIB STIFFENER | |
| 17 | 80351034 | 1 | FRONT STIFFENER | |
| 18 | 80351035 | 1 | BOTTOM PLATE | |
| 19 | 80651050 | 1 | WEAR STRIP | |
| 20 | 80951191 | 1 | WEAR STRIP | |
| 21 | 80951189 | 1 | WEAR STRIP | |
| 22 | 80651051 | 1 | WEAR STRIP | |
| 23 | 83451296 | 1 | WEAR STRIP | |
| 24 | 80651052 | 1 | WEAR STRIP | |
| 25 | 80951054 | 2 | GUSSET | |

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**Figure 3-3 4’ Boom Extension**



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**Figure 3-3 4’ Boom Extension**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80355001 | 1 | 4’ BOOM EXTENSION, (includes all items) | |
| 1 | 80651140 | 2 | PIN | |
| 2 | 80651141 | 4 | PLATE | |
| 3 | 88631351 | 4 | COTTER PIN, 1/4X2-1/2 | |
| 4 | 80651097 | 1 | LINK | |
| 5 | 80656078 | 1 | PUSH ROD WELDMENT | |
| 6 | 80625017 | 1 | CURVED LINK ASSY | |
| 7 | 80321037 | 2 | BUSHING | |
| 8 | 80321039 | 2 | WASHER | |
| 9 | 88201042 | 2 | HEX HD CAPSCREW, 3/8-16X2-3/4, GR5 | |
| 10 | 88501006 | 2 | HEX NUT, 3/8-16 | |
| 11 | 88551011 | 2 | LOCKWASHER, 3/8 | |
| 12 | 88591118 | 2 | O-RING | |
| 13 | 80356005 | 1 | 4’ BOOM EXTENSION WELDMENT | |
| 14 | 80651098 | 1 | PIN | |
| 15 | 80651100 | 2 | COLLAR | |
| 16 | 83481673 | 2 | HEX HD CAPSCREW, 3/8-16X4-3/4, GR5 | |
| 17 | 88521206 | 2 | HEX LOCKNUT, 3/8-16 | |
| 18 | 80921074 | 1 | PIN | |
| 19 | 83201156 | 1 | HEX HD CAPSCREW, 5/8-11X7, GR5 | |
| 20 | 88521310 | 1 | HEX LOCKNUT, 5/8-11 | |
| 21 | 83623019 | 2 | O-RING | |
| 22 | 83201169 | 1 | HEX HD CAPSCREW, 5/8-11X1, GR5 | |
| 23 | 83201129 | 2 | HEX HD CAPSCREW, 1/2-13X1-1/4, GR8 | |
| 24 | 83621283 | 2 | SPECIAL WASHER | |
| 25 | 80926014 | 2 | PIN WELDMENT | |
| 26 | 91123029 | 4 | O-RING | |

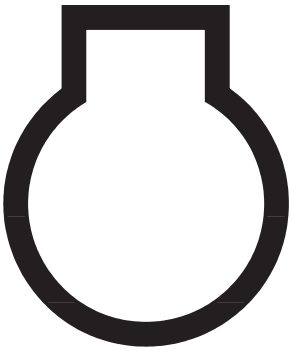
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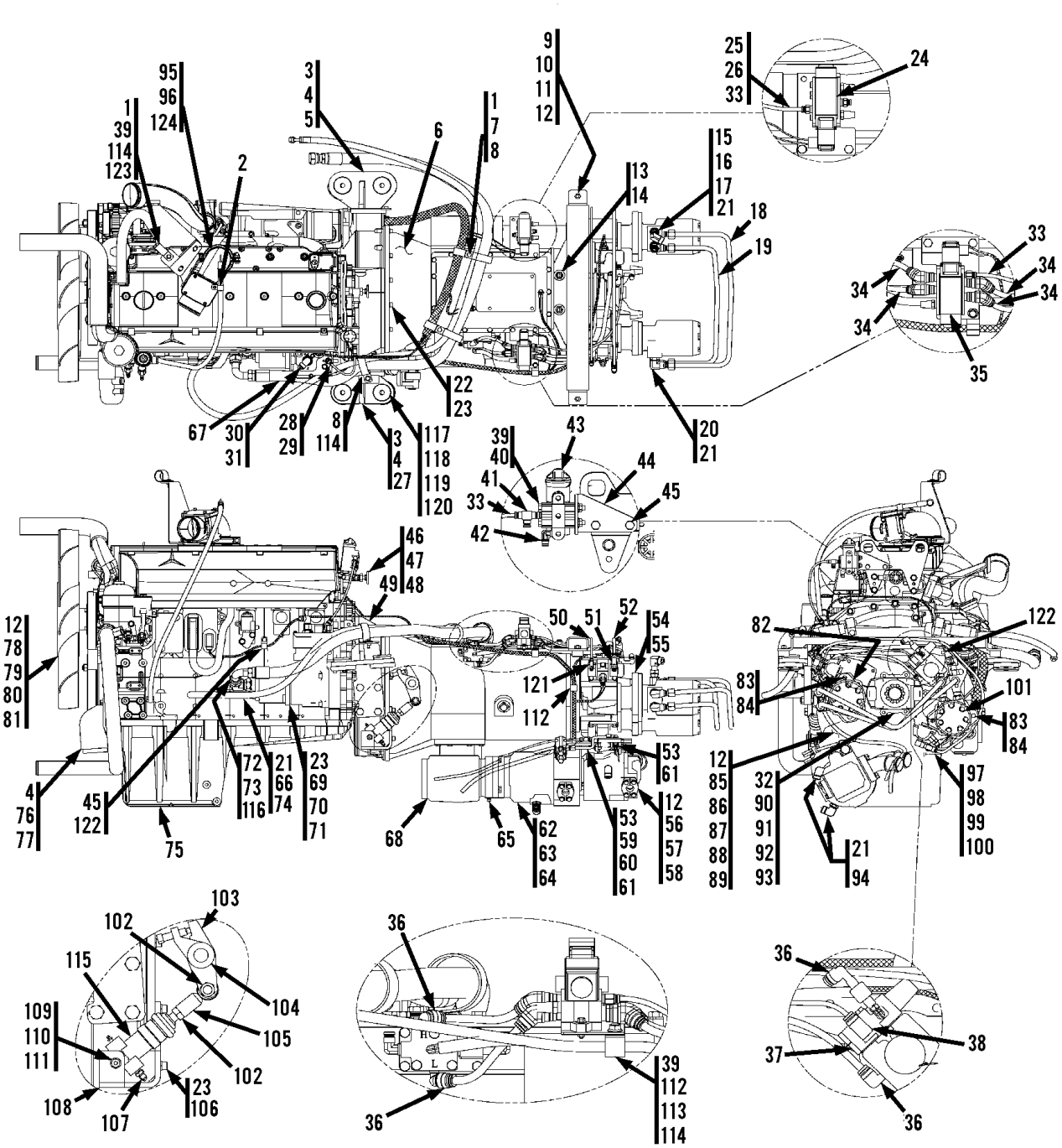
# SECTION 4
# ENGINE & ATTACHING PARTS



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**Figure 4-1 Engine Assembly, L.H. View**



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**Figure 4-1 Engine Assembly, L.H. View**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385150 | 1 | 04' EPA POWER UNIT ASSY, (includes all items on Figure 4-1 except items 117 thru 120 & designated items on Figure 4-2) | |
| 1 | 85841150 | 3 | CLAMP, 1-1/12 | |
| 2 | 24861170 | 1 | CLAMP, 11/16 | |
| 3 | 80303046 | 8 | HEX HD CAPSCREW, M16-2X35, GR10.9 | |
| 4 | 80383399 | 6 | LORD MOUNT | |
| 5 | 80486017 | 1 | ENGINE MOUNT, R.H. | |
| 6 | | Ref | CLUTCH ASSY, (see Figure 5-1 for details) | |
| 7 | 88561109 | 2 | FLAT WASHER, 3/8 | |
| 8 | 80973050 | 3 | CLAMP, 2-5/8 | |
| 9 | 80486008 | 1 | TRANSMISSION SUPPORT WELD | |
| 10 | 83683516 | 2 | LORD MOUNT | |
| 11 | 88501006 | 2 | HEX NUT, 3/8-16 | |
| 12 | 88551011 | 17 | LOCKWASHER, 3/8 | |
| 13 | 88201094 | 2 | HEX HD CAPSCREW, 5/8-11X1-1/4 | |
| 14 | 88551015 | 2 | LOCKWASHER, 5/8 | |
| 15 | 88662348 | 2 | CONNECTOR, (includes item 21) | |
| 16 | 80483113 | 2 | RUN TEE | |
| 17 | 88662373 | 2 | ELBOW, 90 DEGREES, (swivel nut) | |
| 18 | 80483231 | 1 | TUBE ASSY | |
| 19 | 80483231 | 1 | TUBE ASSY | |
| 20 | 88662331 | 2 | ELBOW, 90 DEGREES, (includes item 21) | |
| 21 | 88591206 | 6 | O-RING | |
| 22 | 83191082 | 10 | HEX SOCKET HD CAPSCREW, M10-1.5X35, GR8, (lubricate & torque to 32-37 lb-ft) | |
| 23 | 83191013 | 14 | LOCKWASHER, M10 | |
| 24 | | Ref | AIR VALVE ASSY, (for exhaust brake only), (see Figure 4-17 for details) | |
| 25 | 80483129 | 1 | ADAPTER, (for exhaust brake only) | |
| 26 | 80483130 | 1 | FITTING, (for exhaust brake only) | |
| 27 | 80486018 | 1 | ENGINE MOUNT, L.H. | |
| 28 | 80483100 | 1 | METRIC ADAPTER | |
| 29 | 80383165 | 1 | BRASS ELBOW, 90 DEGREES | |
| 30 | 80483099 | 1 | METRIC ADAPTER | |
| 31 | 88662107 | 1 | ELBOW, 90 DEGREES, (swivel nut) | |
| 32 | 83687060 | 1 | O-RING | |
| 33 | | AR | BLACK NYLON TUBING, 1/4 | |
| 34 | | AR | BLACK NYLON TUBING, 3/8 | |
| 35 | | Ref | AIR VALVE ASSY, (see Figure 4-17 for details) | |
| 36 | 80383208 | 4 | BRASS ELBOW, 90 DEGREES | |
| 37 | 80383206 | 1 | CONNECTOR | |
| 38 | 80483112 | 1 | FITTING | |
| 39 | 77143006 | 4 | WHIZ-LOK NUT, 5/16-18 | |
| 40 | 88201028 | 2 | HEX HD CAPSCREW, 5/16-18X3, GR5 | |
| 41 | 80383182 | 1 | TEE TUBE FITTING, 1/8X1/4 TUBE | |
| 42 | 80383151 | 1 | ELBOW, 90 DEGREES, 1/8X1/4 TUBE | |
| 43 | 84521054 | 1 | GOVERNOR | |
| 44 | 80481095 | 1 | MOUNTING PLATE | |
| 45 | 83191007 | 3 | HEX HD CAPSCREW, M8-1.25X16, GR8 | |
| 46 | 91083155 | 1 | TRUCK VALVE | |

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**Figure 4-1 Engine Assembly, L.H. View (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 47 | 84712742 | 1 | HOSE NIPPLE | |
| 48 | 80483080 | 1 | ADAPTER | |
| 49 | | Ref | TRANSMISSION ASSY, (see Figure 5-4 for details) | |
| 50 | | AR | RED NYLON TUBING, 1/4 | |
| 51 | 80383207 | 1 | TEE TUBE FITTING, 1/8X3/8 TUBE | |
| 52 | | AR | RED NYLON TUBING, 3/8 | |
| 53 | 88662444 | 2 | CONNECTOR, (includes item 61) | |
| 54 | | Ref | COUNTER SHAFT, PTO, (see Figure 9-26 for details) | |
| 55 | 88212612 | 4 | SOCKET HD CAPSCREW, 3/8-16X2- 3/4 | |
| 56 | 84711333 | 4 | FLANGE HALF | |
| 57 | 88201036 | 8 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 58 | 91083106 | 2 | O-RING | |
| 59 | 80383105 | 1 | TUBE ASSY | |
| 60 | 88662445 | 1 | ELBOW, 90 DEGREES, (includes item 61) | |
| 61 | 88591202 | 2 | O-RING | |
| 62 | 88201096 | 4 | HEX HD CAPSCREW, 5/8-11X1-3/4, GR5, (loctite & torque to 155-170 lb-ft) | |
| 63 | 88551015 | 4 | LOCKWASHER, 5/8 | |
| 64 | | Ref | MAIN PUMP, (see Figure 9-6 for details) | |
| 65 | 88711251 | 1 | HEX SOCKET PIPE PLUG, 1/4 | |
| 66 | 84721017 | 1 | HOSE ASSY | |
| 67 | 84721022 | 1 | HOSE ASSY | |
| 68 | | Ref | POWER TAKE OFF ASSY, (see Figure 9-23 for details) | |
| 69 | | Ref | POWER STEERING PUMP ASSY, (see Figure 8-22 for details) | |
| 70 | 86671112 | 1 | GASKET | |
| 71 | 83191040 | 2 | SOCKET HD CAPSCREW, M10-1.5X30, GR8 | |
| 72 | 88662309 | 1 | CONNECTOR, (includes item 116) | |
| 73 | 88662375 | 1 | ELBOW, 90 DEGREES, (swivel nut) | |
| 74 | 88662430 | 1 | CONNECTOR, (includes item 21) | |
| 75 | 80383378 | 1 | DETROIT DIESEL ENGINE | |
| 76 | 80486016 | 1 | FRONT ENGINE MOUNT | |
| 77 | 83191067 | 4 | HEX HD CAPSCREW, M14-2X45, GR8.8 | |
| 78 | 83953265 | 1 | FAN | |
| 79 | 80481088 | 1 | FAN SPACER | |
| 80 | 83191046 | 4 | SOCKET HD CAPSCREW, M8-1.5X20, GR8.8 | |
| 81 | 88201033 | 4 | HEX HD CAPSCREW, 3/8-16X3/4, GR5 | |
| 82 | | Ref | L.H. TRAVEL MOTOR ASSY, (see Figure 9-27 for details) | |
| 83 | 88201067 | 4 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5, (loctite & torque to 68-78 lb-ft) | |
| 84 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 85 | 12001234 | 3 | HARDENED WASHER, 3/8 | |
| 86 | 88201038 | 3 | HEX HD CAPSCREW, 3/8-16X1-3/4, GR5 | |
| 87 | 80381259 | 1 | PUMP SUPPORT BRACKET | |
| 88 | 90027471 | 2 | HARDENED WASHER, 1/2 | |
| 89 | 83191080 | 2 | SOCKET HD CAPSCREW, M12-1.75X40, GR12.9 | |
| 90 | 80975004 | 1 | SPEED SENSOR ASSY, (includes items 91 thru 93) | |
| 91 | 80963058 | 1 | SHROUD | |
| 92 | 80963066 | 2 | CABLE SEAL | |
| 93 | 80963069 | 2 | MALE PIN TERMINAL | |
| 94 | 88662335 | 2 | ELBOW, 90 DEGREES, (includes item 21) | |
| 95 | 80483204 | 1 | CHARGE AIR FLANGE | |

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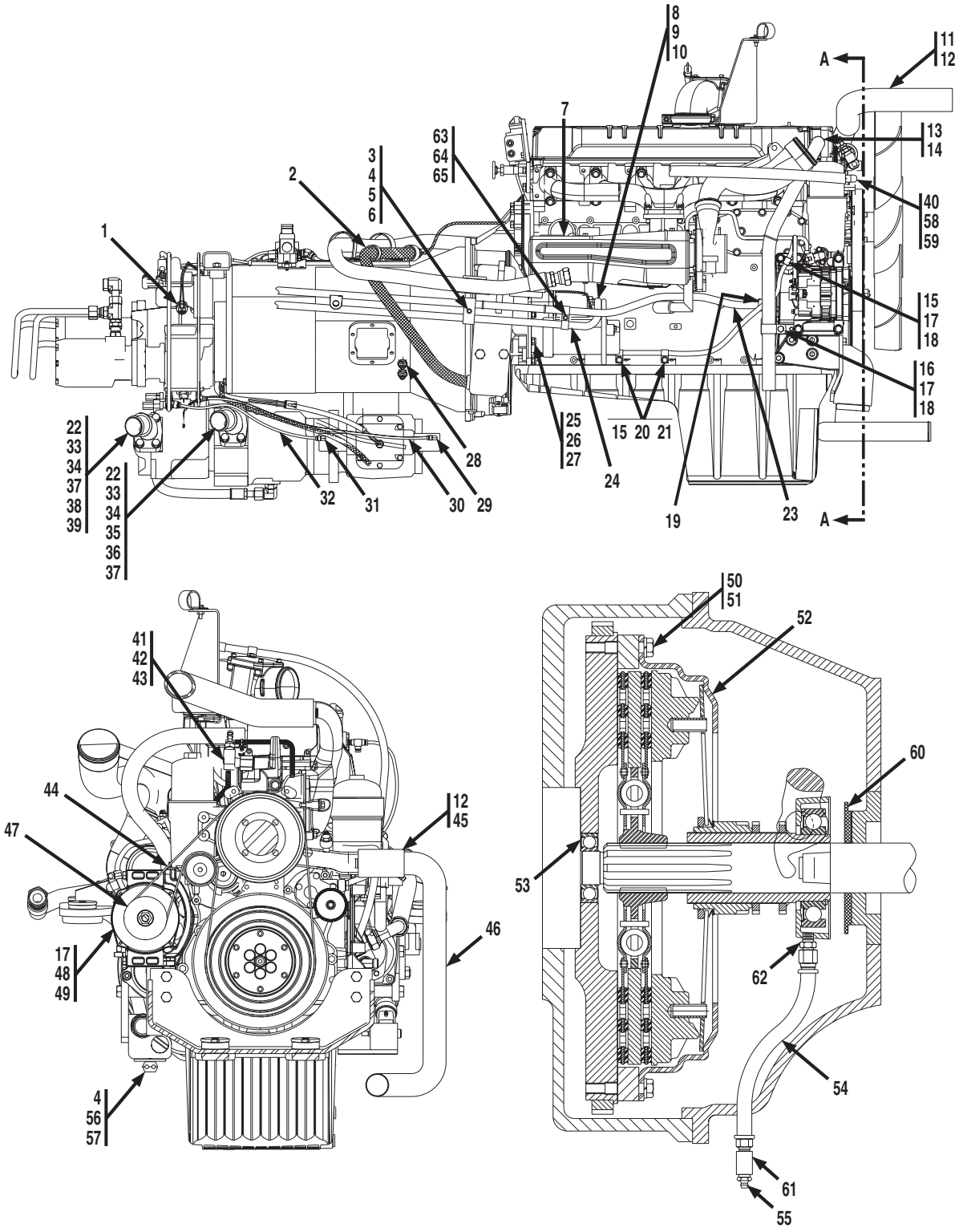
**Figure 4-1 Engine Assembly, L.H. View (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 96 | 80483209 | 1 | CLAMP | |
| 97 | 80483118 | 1 | BRASS ELBOW, 90 DEGREES | |
| 98 | 80383178 | 1 | BRASS RUN TEE | |
| 99 | 86983648 | 1 | BRASS ELBOW, 90 DEGREES | |
| 100 | 80383176 | 1 | RUN TEE | |
| 101 | | Ref | R.H. TRAVEL MOTOR, (see Figure 9-28 for details) | |
| 102 | 88501410 | 2 | HEX JAM NUT, 5/8-18 | |
| 103 | 80381465 | 1 | LEVER | |
| 104 | 83681688 | 1 | SPACER TUBE | |
| 105 | 80383070 | 1 | ROD END | |
| 106 | 83191065 | 2 | SOCKET HD CAPSCREW, M10X1.5-45, GR12.9 | |
| 107 | 88743010 | 1 | ADAPTER, 1/4X1/4 TUBE | |
| 108 | 80486022 | 1 | CYLINDER BRACKET | |
| 109 | 88521206 | 1 | HEX LOCKNUT, 3/8-16 | |
| 110 | 88251043 | 1 | SOCKET HD SHOULDER SCREW,1-2X2-1/2 | |
| 111 | 88561006 | 2 | FLAT WASHER, 1/2 | |
| 112 | 86521144 | 2 | CLAMP, 13/16 | |
| 113 | 85841094 | 1 | CLAMP, 9/16 | |
| 114 | 91363018 | 3 | WHIZ-LOCK SCREW,5/16-18X1 | |
| 115 | | Ref | SLAVE VALVE ASSY, (see Figure 5-3 for details) | |
| 116 | 88591207 | 1 | O-RING | |
| 117 | 88201105 | 6 | HEX HD CAPSCREW, 5/8-11X4, GR5 | |
| 118 | 77381205 | 6 | SPECIAL WASHER, 5/8 | |
| 119 | 88561113 | 6 | FLATWASHER, 5/8 | |
| 120 | 88521210 | 2 | HEX LOCKNUT, 5/8-11 | |
| 121 | 80383188 | 1 | TEE TUBE FITTING, 1/8X1/4 TUBE | |
| 122 | 91043147 | 2 | CLAMP, 3/4 | |
| 123 | 80481196 | 1 | VENT LINE BRACKET | |
| 124 | 80483210 | 1 | O-RING | |

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**Figure 4-2 Engine Assembly, R.H. View**



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**Figure 4-2 Figure 4-2 Engine Assembly, R.H. View**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385150 | 1 | 04’ EPA POWER UNIT ASSY, (includes all items on Figure 4-2 & designated items on Figure 4-1) | |
| 1 | 80383256 | 1 | SAFETY SWITCH | |
| 2 | 80483073 | 1 | ENGINE HARNESS | |
| 3 | 77133136 | 1 | CLAMP | |
| 4 | 77133137 | 1 | COVER PLATE | |
| 5 | 88201026 | 1 | HEX HD CAPSCREW, 5/16-18X2-1/2, GR5 | |
| 6 | 88501005 | 1 | HEX NUT, 5/16-18 | |
| 7 | 80483226 | 1 | EXHAUST ADAPTER | |
| 8 | 91033133 | 1 | HEX NUT, M5X0.8 | |
| 9 | 91033134 | 1 | HEX NUT, M10X1.5, (hand torque to 15-22 lb-ft) | |
| 10 | 83191013 | 1 | LOCKWASHER | |
| 11 | 80483183 | 1 | UPPER RADIATOR HOSE | |
| 12 | 85071128 | 3 | HOSE CLAMP | |
| 13 | 86671187 | 1 | HOSE CLAMP | |
| 14 | 80483127 | 1 | BREATHER HOSE | |
| 15 | 85941016 | 3 | SUPPORT CLAMP | |
| 16 | 24601710 | 1 | SUPPORT CLAMP, 1-1/2 | |
| 17 | 90027470 | 6 | HARDENED WASHER, 3/8 | |
| 18 | 83191038 | 2 | HEX HD CAPSCREW, M10-1.5X20, GR 8.8 | |
| 19 | 80483102 | 1 | HEX HD CAPSCREW, M16X1.5X25, GR 8.8 | |
| 20 | 88561002 | 2 | FLAT WASHER, 1/4 | |
| 21 | 83191028 | 2 | HEX HD CAPSCREW, M8X1.25X25, GR 8.8 | |
| 22 | 88591202 | 2 | O-RING | |
| 23 | | Ref | NEGATIVE BATTERY CABLE, (see Figure 10-5 for details) | |
| 24 | | Ref | POSITIVE BATTERY CABLE, (see Figure 10-5 for details) | |
| 25 | 83191030 | 3 | HEX LOCKNUT, M10X1.5, (hand torque to 32-42 lb-ft) | |
| 26 | 80233220 | 3 | HARDWASHER, M10 | |
| 27 | 80483055 | 1 | STARTER | |
| 28 | 88743014 | 2 | ADAPTER | |
| 29 | 80383151 | 1 | TUBE FITTING 90 DEGREES, 1/8X1/4 TUBE | |
| 30 | | Ref | NYLON TUBING, 1/4 | |
| 31 | 80383208 | 1 | FITTING, 90 DEGREES, 1/8X3/8 TUBE | |
| 32 | | Ref | NYLON TUBING, 3/8 | |
| 33 | 88551013 | 8 | LOCKWASHER, 1/2 | |
| 34 | 88662172 | 2 | HEX HD PLUG, (includes item 22) | |
| 35 | 88591103 | 1 | O-RING | |
| 36 | 80383273 | 1 | SUCTION TUBE | |
| 37 | 88201066 | 8 | HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (hand torque to 68-78 lb-ft) | |
| 38 | 80383127 | 1 | SUCTION TUBE | |
| 39 | 88591106 | 1 | O-RING | |
| 40 | 80483214 | 1 | HOSE ASSY | |
| 41 | 80483101 | 1 | REDUCING BUSHING, M20-1/2 | |
| 42 | 80383218 | 1 | BUSHING | |
| 43 | 84712743 | 1 | STRAIGHT HOSE NIPPLE | |
| 44 | 80483056 | 1 | DRIVE BELT | |
| 45 | 80483109 | 1 | RADIATOR TUBE COUPLING | |
| 46 | 80483208 | 1 | BOTTOM RADIATOR TUBE | |
| 47 | 80483054 | 1 | PULLEY | |

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**Figure 4-2 Figure 4-2 Engine Assembly, R.H. View**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 48 | 80483052 | 1 | ALTERNATOR, (includes regulator) | |
| | 80973114 | 1 | REGULATOR | |
| 49 | 80483108 | 4 | HEX HD CAPSCREW, M10X1.5X110, GR 10.9, (hand torque to 38-43 lb-ft) | |
| 50 | 83201126 | 8 | HEX HD CAPSCREW, 3/8-16X2-1/2, GR8 | |
| 51 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 52 | | Ref | CLUTCH ASSY, (see Figure 5-1 for details) | |
| 53 | 80483050 | 1 | BEARING | |
| 54 | 84716899 | 1 | HOSE ASSY | |
| 55 | 88671001 | 1 | LUBE FITTING, STRAIGHT, 1/8 | |
| 56 | 80933216 | 1 | CLAMP SET | |
| 57 | 88201023 | 1 | HEX HD CAPSCREW, 5/16-18X1-3/4, GR5 | |
| 58 | 80483215 | 1 | TUBE ASSY | |
| 59 | 86971172 | 3 | SUPPORT CLAMP | |
| 60 | 80384399 | 1 | CLUTCH BRAKE, (supplied with transmission) | |
| 61 | 24601567 | 1 | COUPLING | |
| 62 | 88743000 | 1 | MALE ADAPTER, 1/8X1/4 TUBE | |
| 63 | 91363018 | 1 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 64 | 88521205 | 1 | LOCKNUT, 5/16-18 | |
| 65 | 91043147 | 2 | CLAMP | |
| | 80384386 | 1 | ENGINE FILTER KIT, (includes all items) | |
| | 83954112 | 1 | AIR FILTER ELEMENT | |
| | 83954113 | 1 | AIR FILTER SAFETY ELEMENT | |
| | 80384384 | 1 | FUEL FILTER, (secondary) | |
| | 80384385 | 1 | OIL FILTER | |
| | 80384045 | 1 | TRANSMISSION FILTER | |
| | 77383819 | 1 | FUEL/WATER SEPARATOR, (mounted on boom rest) | |

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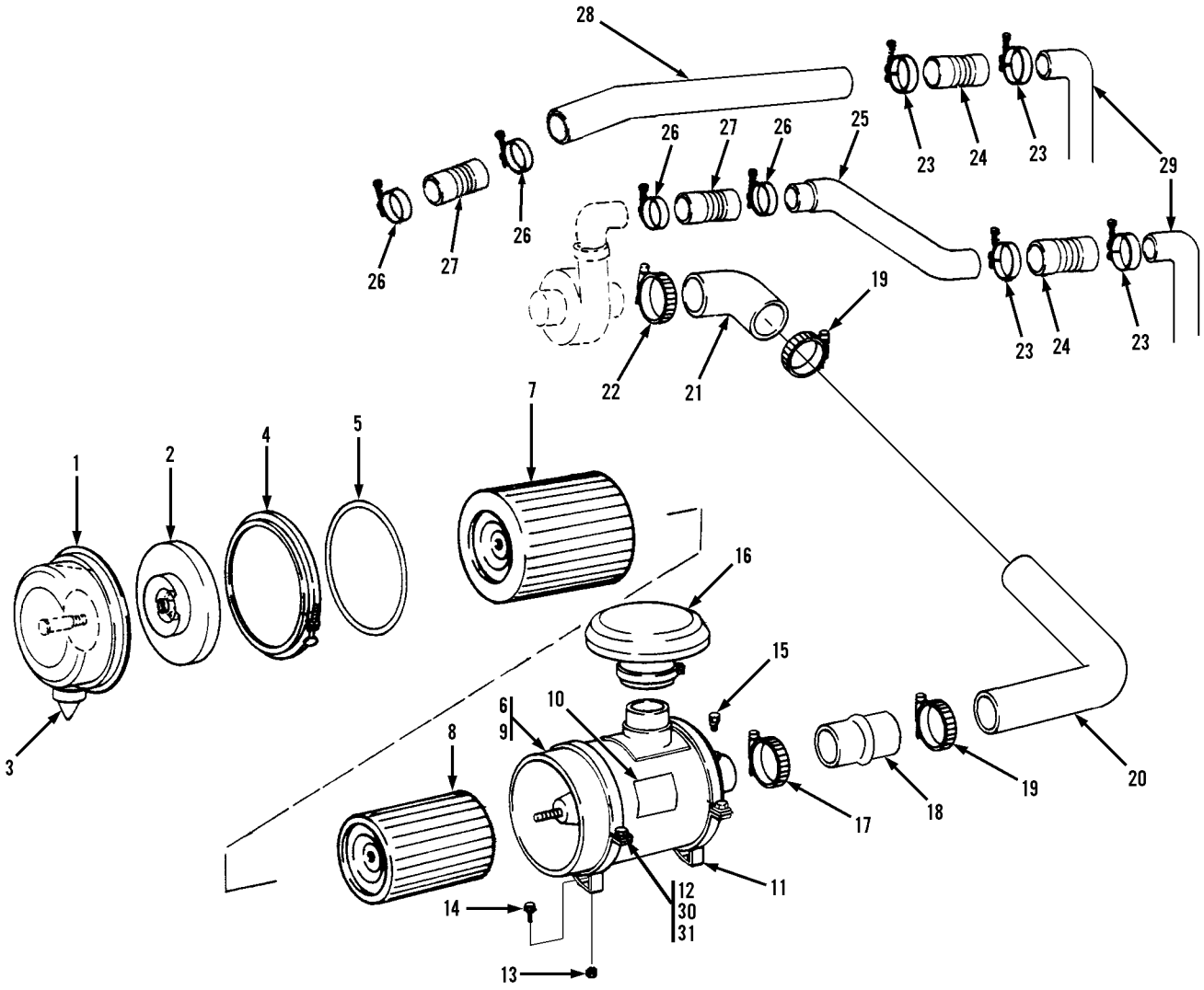
**Figure 4-2 Figure 4-2 Engine Assembly, R.H. View**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 4-3 Air Cleaner**



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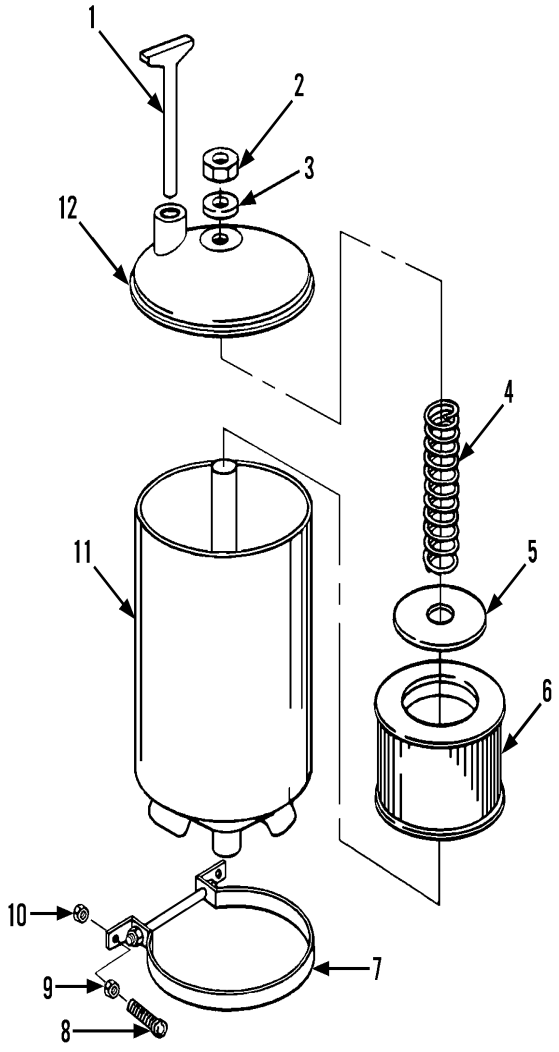
**Figure 4-3 Air Cleaner**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80483211 | 1 | AIR CLEANER, (includes items 1 thru 9) | |
| 1 | 83954108 | 1 | CUP ASSY | |
| 2 | 83954109 | 1 | BAFFLE ASSY | |
| 3 | 83671290 | 1 | VACUATOR VALVE | |
| 4 | 83954110 | 1 | CLAMP ASSY | |
| 5 | 83954111 | 1 | O-RING | |
| 6 | 83671284 | 2 | NUT ASSY | |
| 7 | 83954112 | 1 | ELEMENT | |
| 8 | 83954113 | 1 | SAFETY ELEMENT | |
| 9 | | 1 | BODY ASSY | |
| 10 | 80383389 | 1 | WARNING DECAL | |
| 11 | 83953074 | 2 | MOUNTING BAND | |
| 12 | 88501005 | 2 | HEX NUT, 5/16-18 | |
| 13 | 77143006 | 4 | WHIZ-LOK NUT, 5/16-18 | |
| 14 | 77143003 | 4 | WHIZ-LOK SCREW, 5/16-18X5/8 | |
| 15 | 77383154 | 1 | RESTRICTION INDICATOR | |
| 16 | 83953075 | 1 | AIR INLET HOOD | |
| 17 | 77383792 | 1 | BAND CLAMP | |
| 18 | 83683510 | 1 | HUMP HOSE | |
| 19 | 77383791 | 2 | BAND CLAMP | |
| 20 | 80483150 | 1 | INTAKE TUBE | |
| 21 | 80483045 | 1 | INTAKE ELBOW | |
| 22 | 77383790 | 1 | BAND CLAMP | |
| 23 | 77383789 | 4 | T-BOLT CLAMP | |
| 24 | 77383787 | 2 | CHARGE AIR HOSE | |
| 25 | 80483227 | 1 | CHARGE AIR TUBE, R.H. | |
| 26 | 80483788 | 4 | T-BOLT CLAMP | |
| 27 | 77383786 | 2 | CHARGE AIR HOSE | |
| 28 | 80483182 | 1 | CHARGE AIR TUBE, L.H. | |
| 29 | | Ref | CHARGE AIR COOLER, (see Figure 4-7 for details) | |
| 30 | 88201022 | 2 | HEX HD CAPSCREW, 5/16-18X1-1/2, GR5 | |
| 31 | 88551010 | 2 | LOCKWASHER, 5/16 | |

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**Figure 4-4 Power Steering Reservoir**



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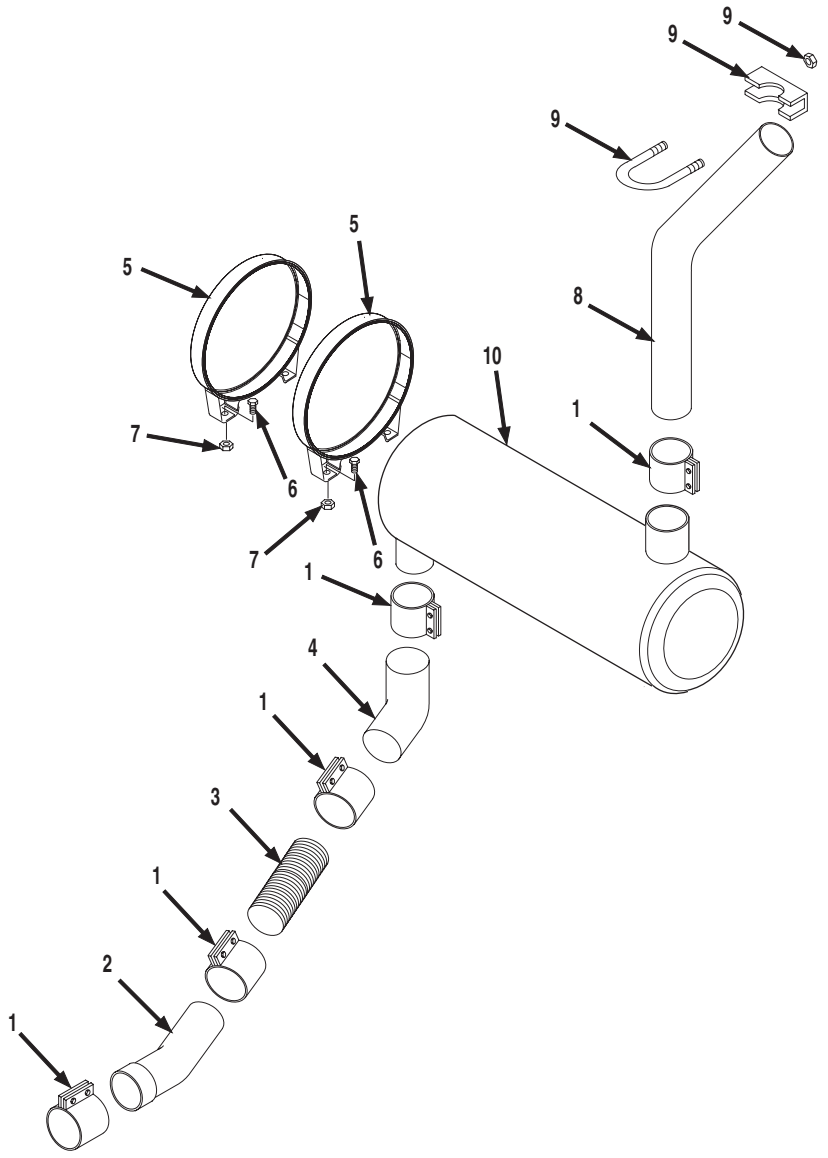
**Figure 4-4 Power Steering Reservoir**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383263 | 1 | POWER STEERING RESERVOIR, (includes all items except 8, 9 & 10) | |
| 1 | 80384047 | 1 | DIPSTICK | |
| 2 | 80384096 | 1 | FLANGE NUT | |
| 3 | 80384049 | 1 | WASHER | |
| 4 | 80384095 | 1 | SPRING | |
| 5 | 80384094 | 1 | RETAINER | |
| 6 | 80384048 | 1 | FILTER ELEMENT | |
| 7 | 80384093 | 2 | MOUNTING BRACKET | |
| 8 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 9 | 88561109 | 4 | FLAT WASHER, 3/8 | |
| 10 | 77143015 | 4 | WHIZ-LOK NUT, 3/8-16 | |
| 11 | | 1 | RESERVOIR ASSY | |
| 12 | 80384097 | 1 | COVER ASSY | |

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**Figure 4-5 Exhaust System**



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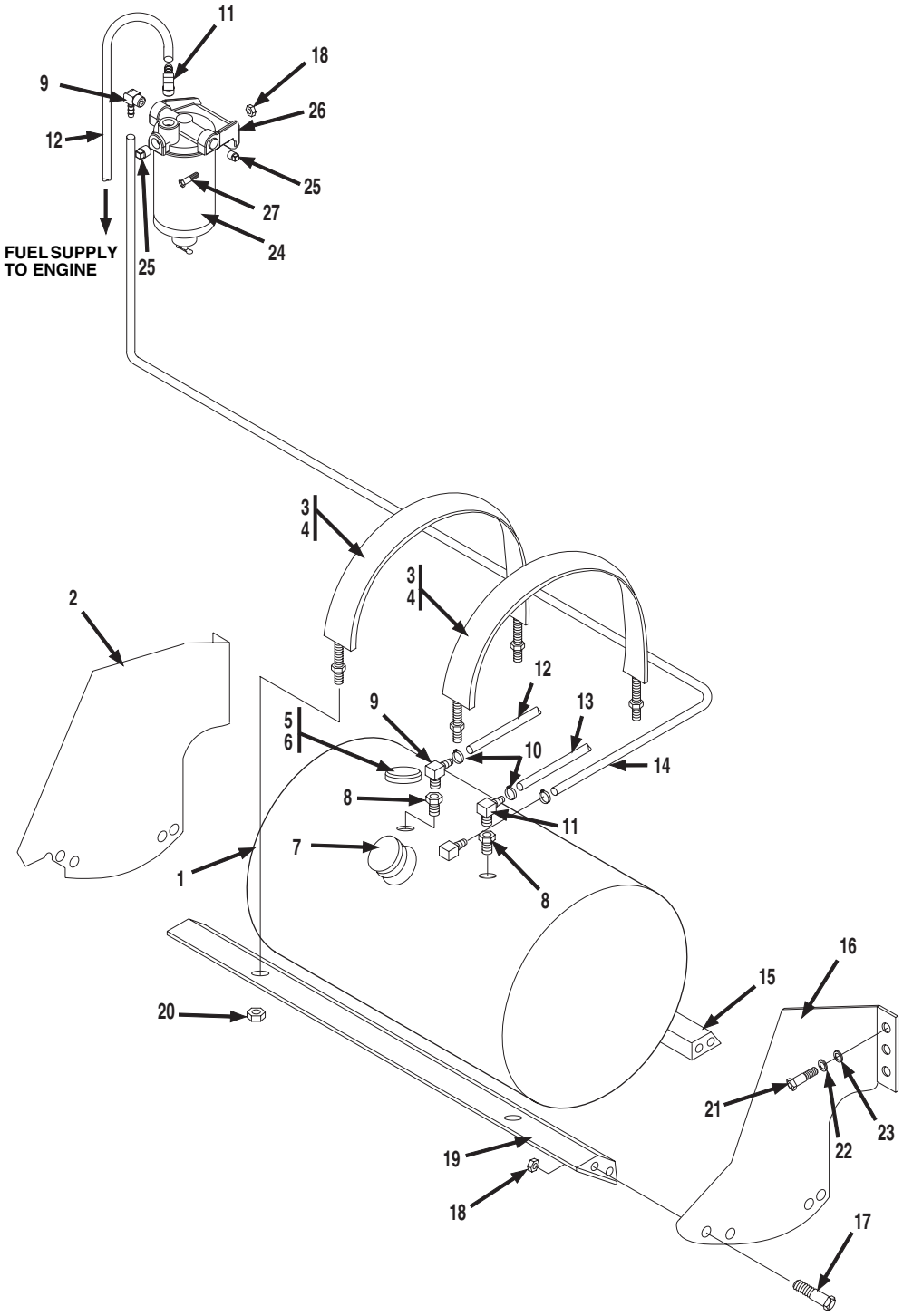
**Figure 4-5 Exhaust System**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83713009 | 5 | SEAL CLAMP | |
| 2 | 80483153 | 1 | EXHAUST TUBE | |
| 3 | 86983493 | 1 | FLEXIBLE TUBING | |
| 4 | 80483152 | 1 | EXHAUST TUBE | |
| 5 | 80483121 | 2 | MUFFLER CLAMP | |
| 6 | 77143015 | 4 | WHIZ-LOK NUT, 3/8-16 | |
| 7 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 8 | 80483169 | 1 | EXHAUST STACK | |
| 9 | 77383946 | 1 | MUFFLER CLAMP | |
| 10 | 77383778 | 1 | MUFFLER | |

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**Figure 4-6 Fuel Tank & Lines**



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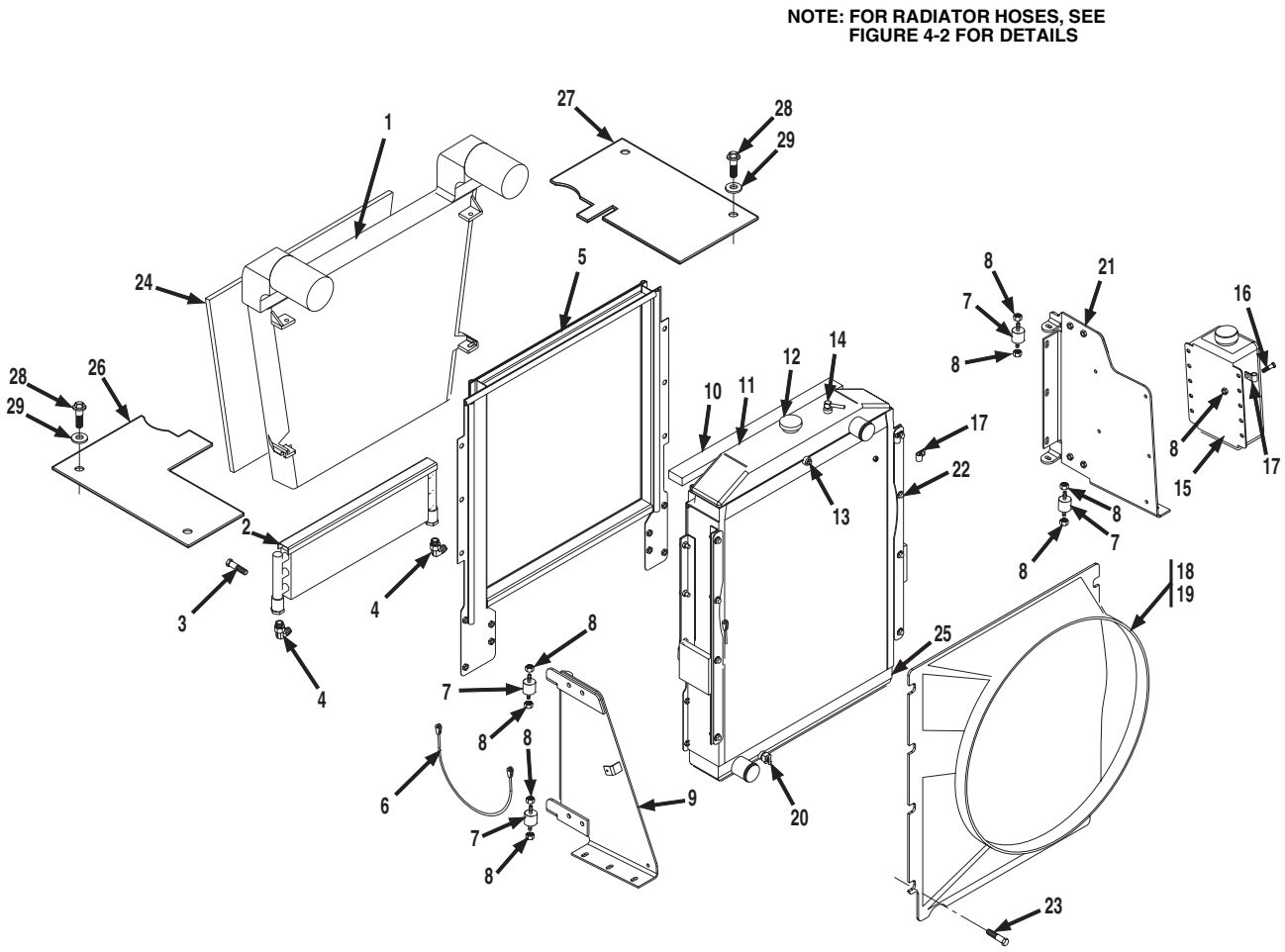
**Figure 4-6 Fuel Tank & Lines**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80383012 | 1 | FUEL TANK, (includes item 7) | |
| 2 | 80381199 | 1 | TANK SUPPORT, L.H. | |
| 3 | 80386042 | 2 | MOUNTING STRAP | |
| 4 | 80383259 | 2 | RUBBER INSULATOR | |
| 5 | 80383068 | 1 | FUEL SENDER | |
| 6 | 80384099 | 1 | GASKET | |
| 7 | 83683030 | 1 | VENTED CAP | |
| 8 | 80383215 | 2 | BRASS REDUCER | |
| 9 | 80483106 | 2 | FUEL FITTING, 90 DEGREES | |
| 10 | 86671187 | 3 | HOSE CLAMP | |
| 11 | 80483075 | 2 | FUEL FITTING, 90 DEGREES | |
| 12 | | AR | HOSE, 3/8 | |
| 13 | | AR | HOSE, 5/16 | |
| 14 | | AR | HOSE, 1/2 | |
| 15 | 80386055 | 1 | BOTTOM TANK SUPPORT, (outside) | |
| 16 | 80381198 | 1 | TANK SUPPORT, R.H. | |
| 17 | 80973025 | 8 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 18 | 77143015 | 10 | WHIZ-LOK NUT, 3/8-16 | |
| 19 | 80386041 | 1 | BOTTOM TANK SUPPORT, (inside) | |
| 20 | 88521306 | 4 | HEX LOCKNUT, 3/8-16 | |
| 21 | 88201096 | 6 | HEX HD CAPSCREW, 5/8-11X1-3/4, GR8, (lubricate & torque to 140-155 lb-ft) | |
| 22 | 88551015 | 6 | LOCKWASHER, 5/8 | |
| 23 | 88561113 | 6 | FLATWASHER, 5/8 | |
| 24 | 77383819 | 1 | FUEL/WATER SEPARATOR | |
| 25 | 88711252 | 2 | SQUARE HD PIPE PLUG, 3/8 | |
| 26 | 83683377 | 1 | MOUNTING BASE | |
| 27 | 88201044 | 2 | HEX HD CAPSCREW, 3/8-16X3-1/4, GR5 | |

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**Figure 4-7 Radiator & Coolers Assembly**



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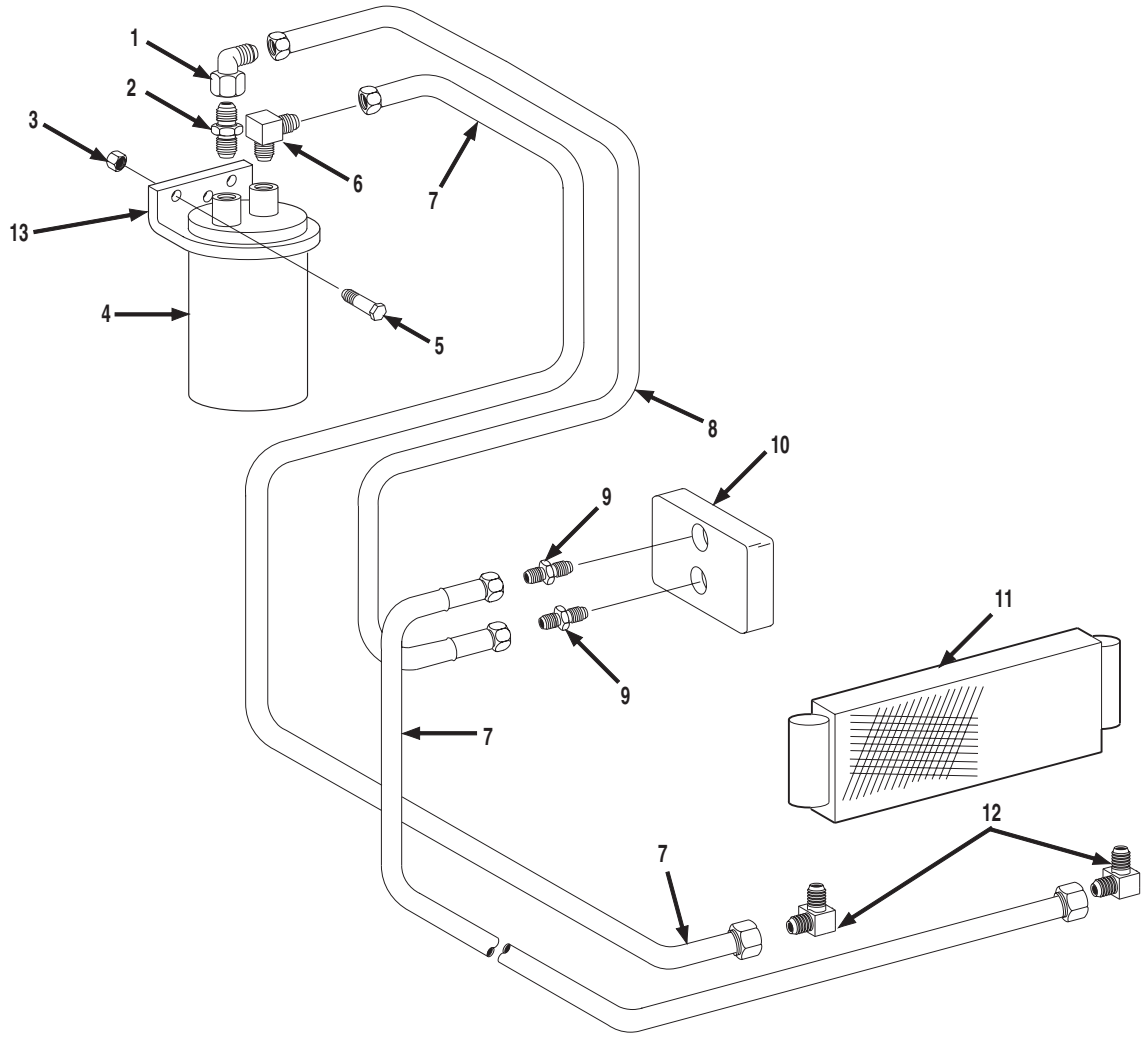
**Figure 4-7 Radiator & Coolers Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485059 | 1 | RADIATOR & COOLERS ASSY, (includes items 1 thru 25) | |
| 1 | 80483039 | 1 | CHARGE AIR COOLER | |
| 2 | 80383122 | 1 | OIL COOLER | |
| 3 | 88201026 | 4 | HEX HD CAPSCREW, 5/16-18X2-1/2, GR5 | |
| 4 | 88661110 | 2 | MALE ELBOW, 90 DEGREES, 1/2X3/8 TUBE | |
| 5 | 80486036 | 1 | AIR SEAL FRAME | |
| 6 | 77383144 | 1 | HOOD STOP CABLE | |
| 7 | 77383800 | 4 | SHOCK MOUNT | |
| 8 | 77143006 | 12 | WHIZ-LOK NUT, 5/16-18 | |
| 9 | 80486037 | 1 | BRACKET, L.H. | |
| 10 | 80483138 | 1 | SOUND PROOFING | |
| 11 | 80483177 | 1 | RADIATOR, (includes item 12) | |
| 12 | 80974026 | 1 | RADIATOR CAP, (7 psi) | |
| 13 | 80383219 | 1 | PLUG, 1/4 | |
| 14 | 84712745 | 1 | PUSH LOCK FITTING | |
| 15 | 77383825 | 1 | OVERFLOW BOTTLE | |
| 16 | 91363018 | 4 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 17 | 85841016 | 2 | SUPPORT CLAMP | |
| 18 | 80486035 | 1 | FAN SHROUD | |
| 19 | 80481148 | 1 | SHROUD SUPPORT | |
| 20 | 80483122 | 1 | DRAIN COCK | |
| 21 | 80486038 | 1 | BRACKET, R.H. | |
| 22 | 80973025 | 14 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 23 | 80303094 | 8 | WHIZ-LOK SCREW, 3/8-16X3/4 | |
| 24 | 80483140 | 1 | SOUNDPROOFING | |
| 25 | 80973042 | 2 | FOAM STRIP | |
| 26 | 80483185 | 1 | RECIRCULATION FLAP | |
| 27 | 80483184 | 1 | RECIRCULATION FLAP | |
| 28 | 80303094 | 4 | WHIZ-LOK SCREW, 3/8-16X3/4 | |
| 29 | 88561109 | 4 | FLAT WASHER, 3/8 | |

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**Figure 4-8 Oil Coolers & Hoses**



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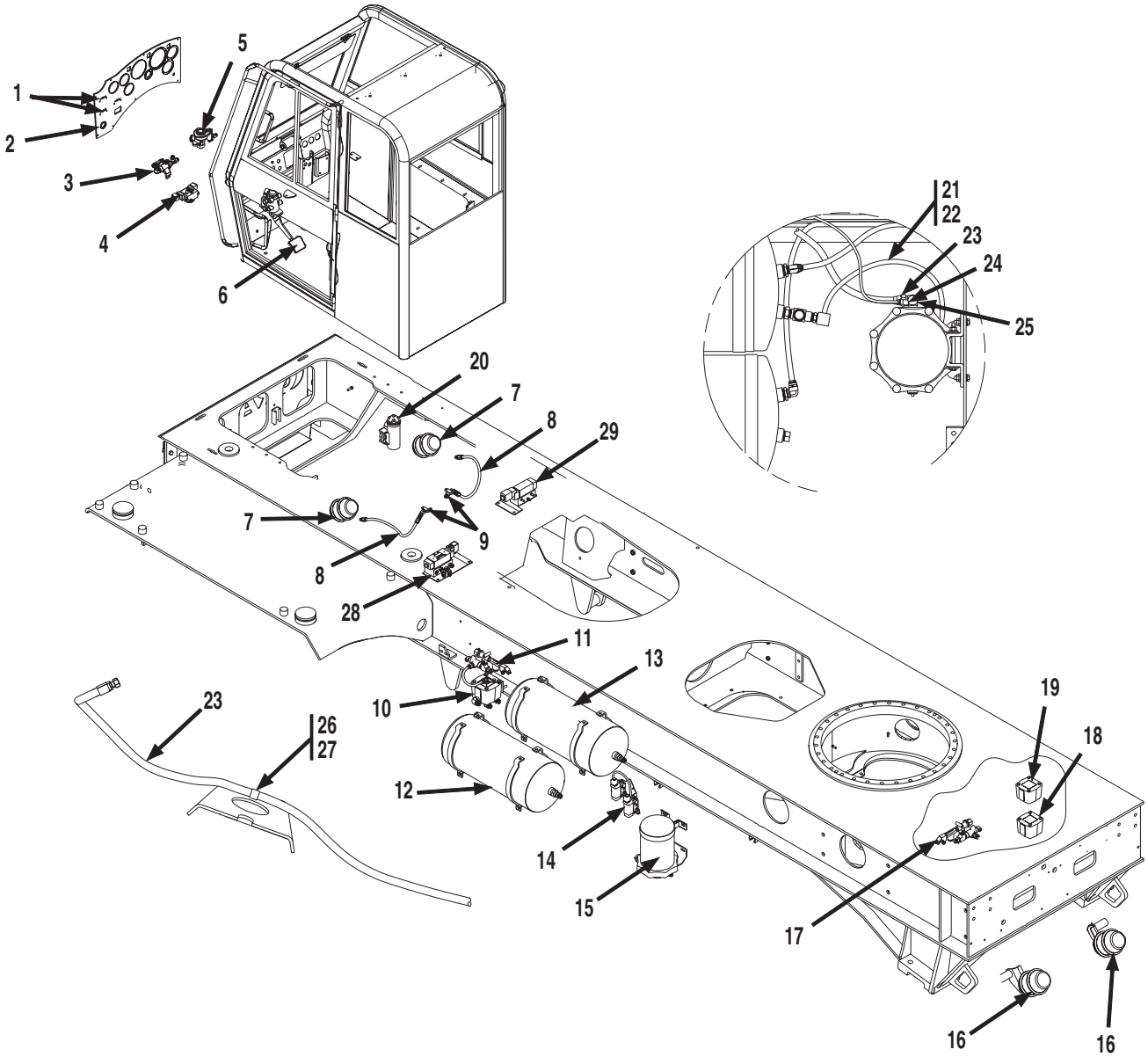
**Figure 4-8 Oil Coolers & Hoses**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 88662105 | 1 | ELBOW, 90 DEGREES, (swivel nut) | |
| 2 | 88743014 | 1 | MALE ADAPTER, 1/2X3/8 TUBE | |
| 3 | 77143006 | 3 | WHIZ-LOK NUT, 5/16-18 | |
| 4 | | Ref | TRANSMISSION FILTER, (see Figure 4-2 for details) | |
| 5 | 77143004 | 3 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |
| 6 | 88743059 | 1 | MALE ELBOW, 90 DEGREES, 1/2X3/8 TUBE | |
| 7 | 84718708 | 2 | HOSE ASSY | |
| 8 | 84717956 | 1 | HOSE ASSY | |
| 9 | 88743014 | 2 | MALE ADAPTER, 1/2X3/8 TUBE | |
| 10 | | Ref | TRANSMISSION ASSY, (see Figure 5-4 for details) | |
| 11 | | Ref | OIL COOLER, (see Figure 9-31 for details) | |
| 12 | | Ref | MALE ELBOW, 90 DEGREES, 1/2X3/8 TUBE, (see Figure 4-7 for details) | |
| 13 | 80384148 | 1 | TRANSMISSION FILTER BASE | |

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**Figure 4-9 Air Brake System**



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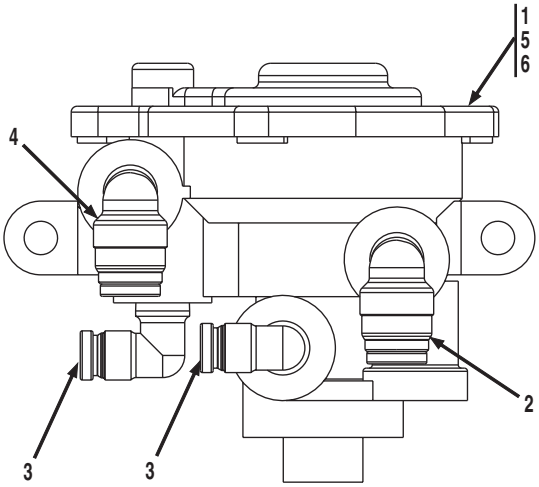
**Figure 4-9 Air Brake System**

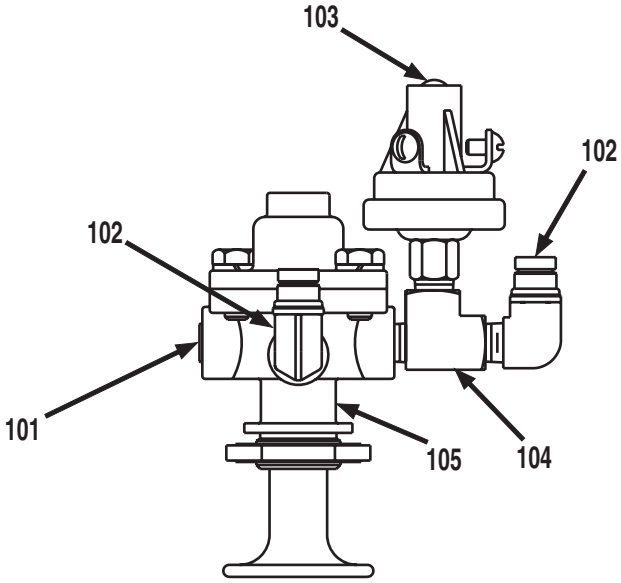
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86683302 | 2 | AIR VALVE ASSY, (see Figure 4-11 for details) | |
| 2 | 80485032 | 1 | PARKING BRAKE VALVE ASSY, (see Figure 4-10 for details) | |
| 3 | 80385044 | 1 | DOUBLE CHECK VALVE ASSY, (see Figure 4-13 for details) | |
| 4 | 80385043 | 1 | AIR VALVE ASSY, (see Figure 4-12 for details) | |
| 5 | 80385042 | 1 | SPRING BRAKE CONTROL VALVE ASSY, (see Figure 4-10 for details) | |
| 6 | 80385045 | 1 | FOOT PEDAL VALVE ASSY, (see Figure 4-16 for details) | |
| 7 | | Ref | AIR BRAKE CHAMBER, (see Figure 5-19 for details) | |
| 8 | 83683173 | 2 | HOSE ASSY, (4X4) | |
| | 86883257 | 2 | HOSE ASSY, (4X2) | |
| 9 | 80385039 | 2 | ADAPTER ASSY, (see Figure 4-11 for details) | |
| 10 | 80385031 | 1 | RELAY VALVE ASSY, (see Figure 4-15 for details) | |
| 11 | 80385032 | 1 | VALVE ASSY, (see Figure 4-13 for details) | |
| 12 | 80385024 | 1 | AIR RESERVOIR & VALVE ASSY, (see Figure 4-14 for details) | |
| 13 | 80385025 | 1 | AIR RESERVOIR & VALVE ASSY, (see Figure 4-14 for details) | |
| 14 | 80385041 | 1 | AIR VALVE ASSY, (see Figure 4-12 for details) | |
| 15 | 80683005 | 1 | AIR DRYER ASSY, (see Figure 4-11 for details) | |
| 16 | | Ref | AIR BRAKE CHAMBER, (see Figure 4-12 for details) | |
| 17 | 80385028 | 1 | DOUBLE CHECK VALVE ASSY, (see Figure 4-16 for details) | |
| 18 | 80385027 | 1 | RELAY VALVE ASSY, (see Figure 4-15 for details) | |
| 19 | 80385026 | 1 | RELAY VALVE ASSY, (see Figure 4-15 for details) | |
| 20 | | Ref | GOVERNOR, (see Figure 4-1 for details) | |
| 21 | 84718190 | 1 | HOSE ASSY | |
| 22 | 88661113 | 1 | MALE ELBOW, 90 DEGREES, 1/2X1/2 TUBE | |
| 23 | 77383208 | 1 | HOSE ASSY | |
| 24 | 80383152 | 1 | TUBE FITTING, 90 DEGREES, 1/4X1/4 | |
| 25 | 88743045 | 1 | ADAPTER | |
| 26 | 85841094 | 1 | SUPPORT CLAMP | |
| 27 | 80973025 | 1 | BOLT, 5/8-16X1 | |
| 28 | 80485038 | 1 | AIR VALVE ASSY, (see Figure 4-17 for details) | |
| 29 | 80485040 | 1 | EXHAUST BRAKE AIR VALVE, (see Figure 4-18 for details) | |

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**Figure 4-10 Air System Components**



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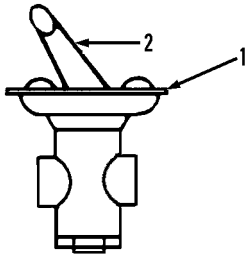
**Figure 4-10 Air System Components**

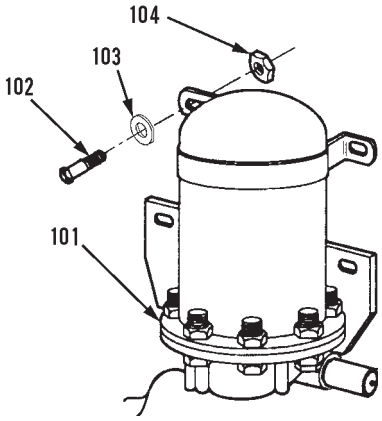
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385042 | 1 | SPRING BRAKE CONTROL VALVE ASSY, (includes items 1 thru 6) | |
| 1 | 86883030 | 1 | CONTROL VALVE | |
| 2 | 80383153 | 1 | TUBE FITTING, 90 DEGREES, 1/4X3/8 | |
| 3 | 80383152 | 2 | TUBE FITTING, 90 DEGREES, 1/4X1/4 | |
| 4 | 80383160 | 1 | TUBE FITTING, 90 DEGREES, 1/4X3/8 | |
| 5 | 88551009 | 2 | LOCKWASHER, 1/4 | |
| 6 | 77143013 | 2 | WHIZ LOK NUT, 1/4-20 | |
| 7 to 100 | Not Used | | | |
| | 80485032 | 1 | PARKING BRAKE VALVE ASSY, (includes items 101 thru 105) | |
| 101 | 88711280 | 1 | PIPE PLUG, 1/8 | |
| 102 | 80383151 | 2 | TUBE FITTING, 90 DEGREES, 1/8X1/4 | |
| 103 | 80383366 | 1 | PRESSURE SWITCH | |
| 104 | 86883467 | 1 | STREET TEE, 1/8 | |
| 105 | 86883028 | 1 | PARKING BRAKE VALVE | |

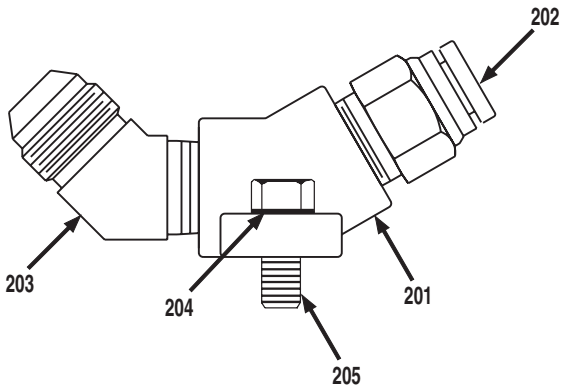
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**Figure 4-11 Air System Components**



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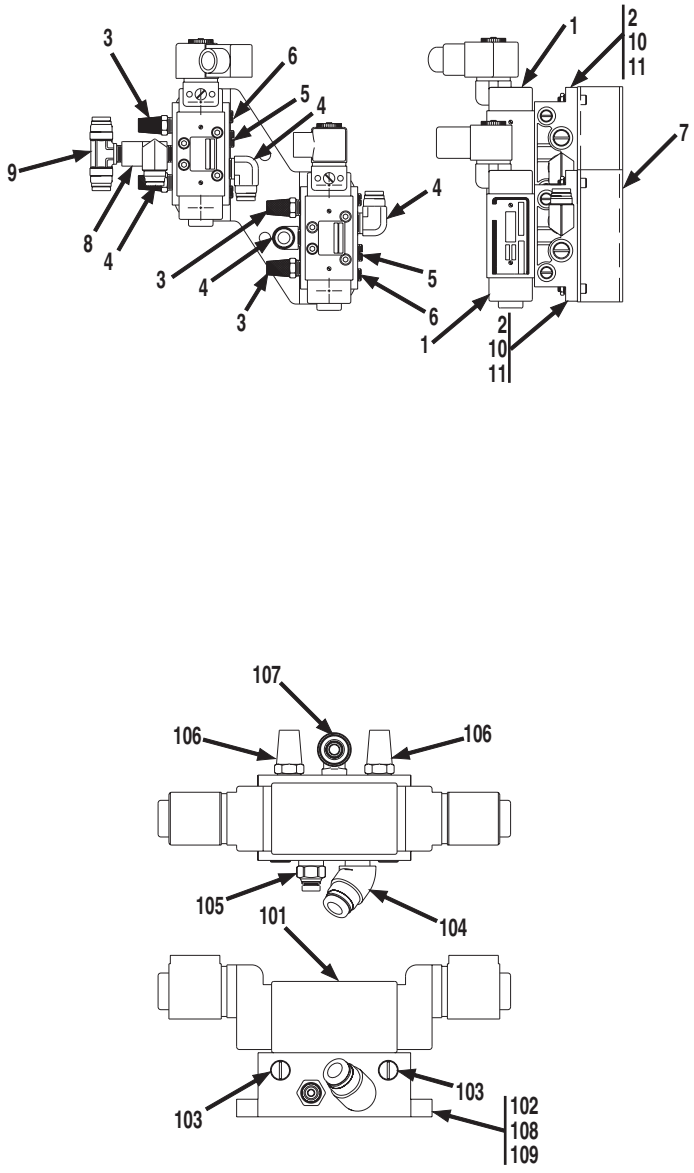
**Figure 4-11 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86683302 | 2 | LOCKOUT AIR VALVE ASSY | |
| 2 | 86683147 | 1 | LEVER | |
| 3 to 100 | Not Used | | | |
| 101 | 80683005 | 1 | AIR DRYER ASSY | |
| 102 | 88201035 | 4 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 103 | 88561004 | 4 | FLAT WASHER, 3/8 | |
| 104 | 88521306 | 4 | NYON LOK NUT, 3/8-16 | |
| 105 to 200 | Not Used | | | |
| | 80385039 | 1 | ADAPTER ASSY, (includes items 201, 202 & 203) | |
| 201 | 86883042 | 1 | ANCHOR ELBOW | |
| 202 | 80983142 | 1 | TUBE FITTING, 45 DEGREES, 3/8X3/8 | |
| 203 | 80983038 | 1 | ADAPTER, 45 DEGREES | |
| 204 | 88551009 | 2 | LOCK WASHER, 1/4 | |
| 205 | 88201003 | 2 | HEX HD CAPSCREW, 1/4-20X3/4, GR5 | |

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**Figure 4-12 Air System Components**



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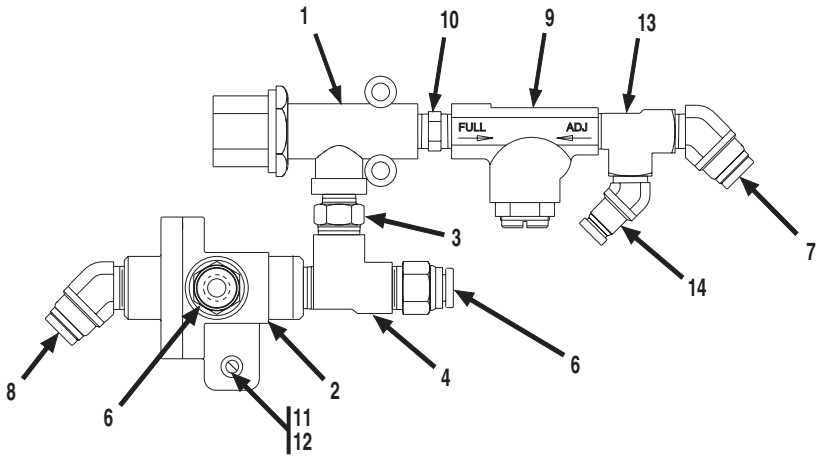
**Figure 4-12 Air System Components**

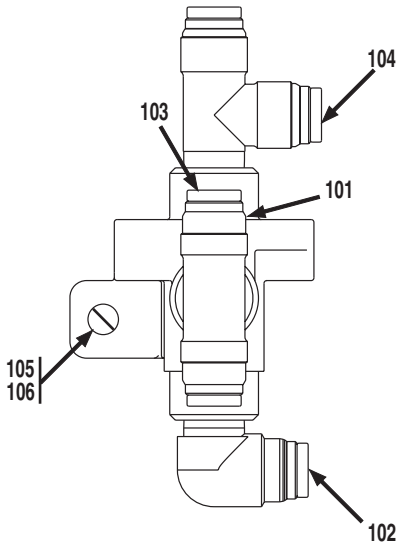
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385041 | 1 | AIR VALVE ASSY, (includes items 1 thru 11) | |
| 1 | 80383295 | 2 | 4-WAY AIR VALVE | |
| 2 | 77383550 | 2 | SUBBASE | |
| 3 | 77383551 | 4 | MUFFLER, 1/4 | |
| 4 | 80383153 | 3 | TUBE FITTING, 90 DEGREES, 1/4X3/8 | |
| 5 | 80383221 | 2 | SLOTTED PLUG, 1/4 | |
| 6 | 80383222 | 4 | SLOTTED PLUG, 1/8 | |
| 7 | 80381201 | 1 | AIR VALVE BRACKET | |
| 8 | 86883118 | 1 | STREET TEE, 1/4 | |
| 9 | 80383190 | 2 | TUBE FITTING, 1/4X3/8X3/8 | |
| 10 | 77143016 | 4 | WHIZ-LOK SCREW, #10-24X3/4 | |
| 11 | 77143017 | 4 | WHIZ-LOK NUT, #10-24 | |
| 12 to 100 | Not Used | | | |
| | 80385043 | 1 | AIR VALVE ASSY, (includes items 101 thru 107) | |
| 101 | 77383968 | 1 | 4-WAY AIR VALVE | |
| 102 | 77383550 | 1 | ISO SUBBASE SIZE | |
| 103 | 80383222 | 2 | SLOTTED PLUG, 1/8 | |
| 104 | 80383166 | 1 | TUBE FITTING, 45 DEGREES, 1/4X 3/8 | |
| 105 | 80383140 | 1 | CONNECTOR, 1/4X1/4 | |
| 106 | 77383551 | 2 | VENT, 1/4 | |
| 107 | 80383153 | 1 | TUBE FITTING, 90 DEGREES, 1/4X 3/8 | |
| 108 | 88211032 | 2 | HEX SOCKET HD CAPSCREW, #10-24X1, GR8 | |
| 109 | 88551007 | 2 | LOCKWASHER, #10 | |

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**Figure 4-13 Air System Components**



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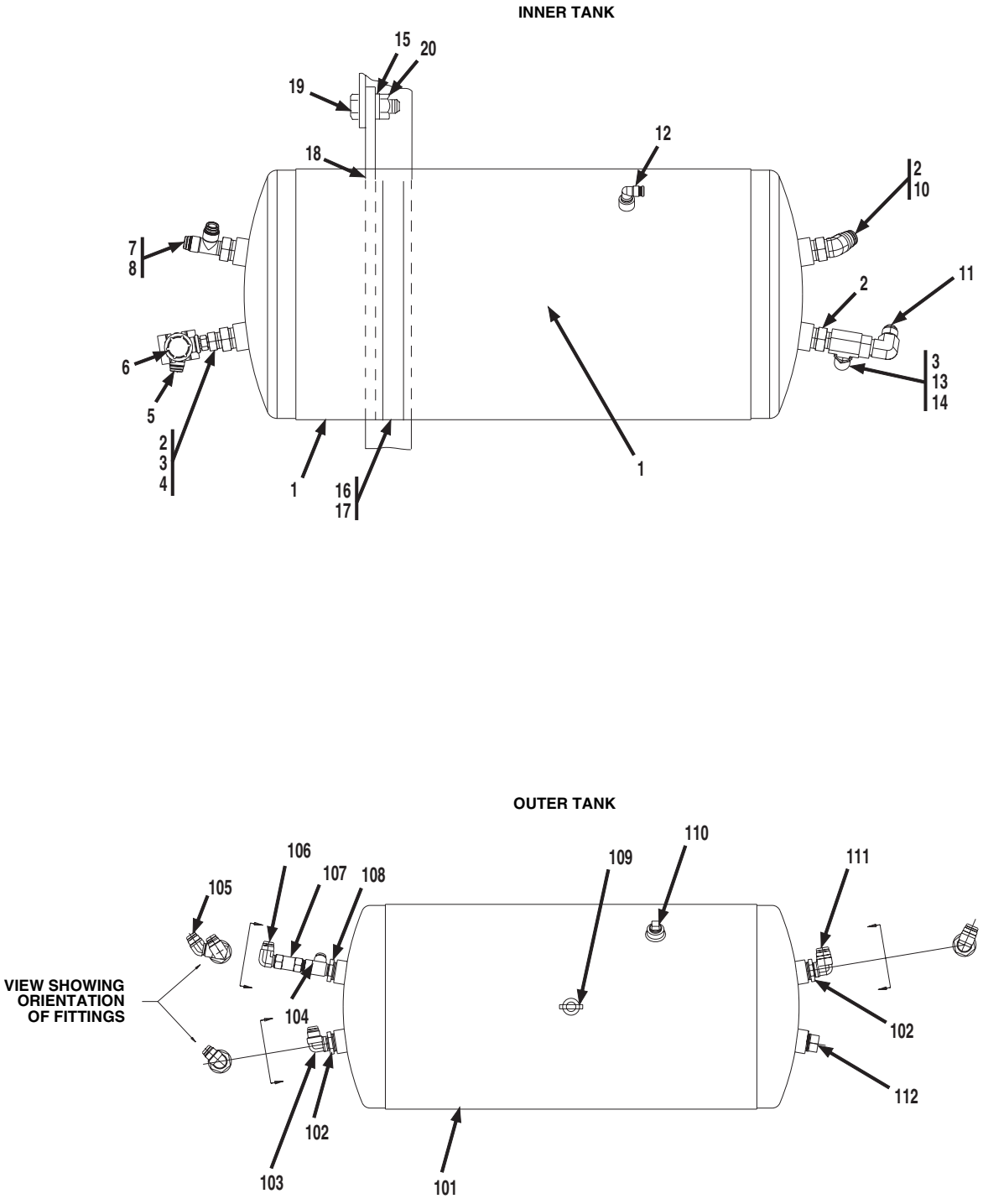
**Figure 4-13 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385032 | 1 | VALVE ASSY, (includes items 1 thru 10) | |
| 1 | 85403220 | 1 | REDUCING VALVE | |
| 2 | 86683293 | 1 | DOUBLE CHECK VALVE | |
| 3 | 86983655 | 1 | CLOSE NIPPLE, 1/4X3/8 | |
| 4 | 86883651 | 2 | STREET TEE, 3/8X3/8 | |
| 5 | 80383165 | 1 | TUBE FITTING, 1/4X1/4 TUBE | |
| 6 | 80383154 | 1 | TUBE FITTING, 90 DEGREES, 3/8X3/8 TUBE | |
| 7 | 80383153 | 1 | TUBE FITTING, 90 DEGREES, 1/4X3/8 TUBE | |
| 8 | 80383167 | 1 | TUBE FITTING, 3/8X3/8 TUBE | |
| 9 | 80383276 | 1 | ORIFICE | |
| 10 | 86983771 | 1 | NIPPLE, 1/4X1/4 | |
| 11 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |
| 12 | 77143004 | 1 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |
| 13 | 86883118 | 1 | STREET TEE, 1/4 | |
| 14 | 80383140 | 1 | TUBE FITTING, STRAIGHT, 1/4X1/4 TUBE | |
| 15 to 100 | Not Used | | | |
| | 80385044 | 1 | DOUBLE CHECK VALVE ASSY, (includes items 101 thru 103) | |
| 101 | 86683293 | 1 | DOUBLE CHECK VALVE | |
| 102 | 80383154 | 1 | HEX NIPPLE, 3/8X3/8 | |
| 103 | 80383191 | 1 | TUBE FITTING, 90 DEGREES, 3/8X3/8 TUBE | |
| 104 | 80383179 | 1 | RUN TEE, 3/8X3/8 | |
| 105 | 88201003 | 1 | HEX HD CAPSCREW, 1/4-20X3/4, GR5 | |
| 106 | 88551009 | 1 | LOCKWASHER, 1/4 | |

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**Figure 4-14 Air System Components**



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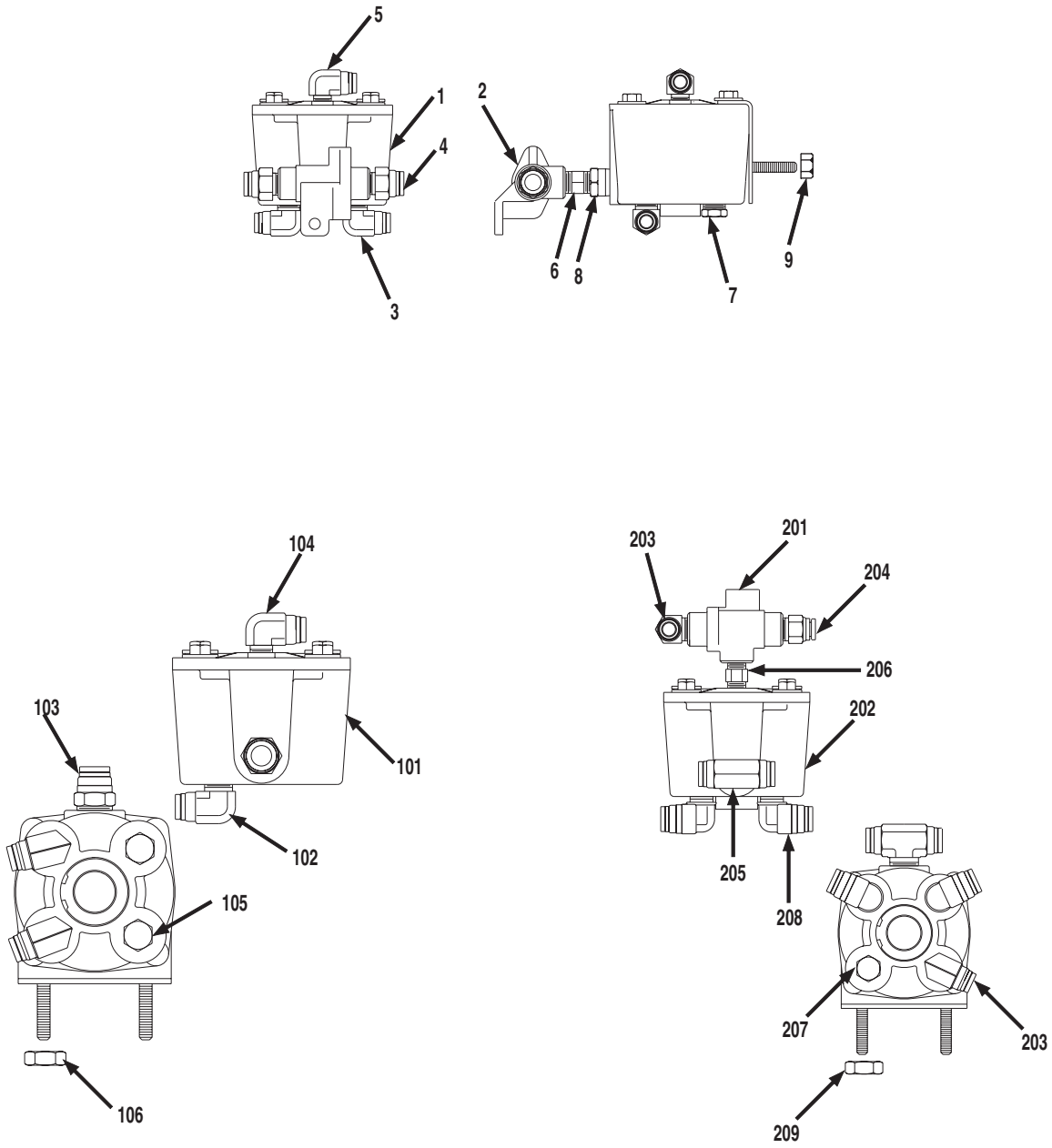
**Figure 4-14 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385024 | 1 | AIR RESERVOIR & VALVE ASSY, INNER, (includes items 1 thru 14) | |
| 1 | 80383077 | 1 | AIR TANK | |
| 2 | 80383216 | 3 | REDUCING BUSHING, 3/4X1/2 | |
| 3 | 80383218 | 2 | REDUCING BUSHING, 1/2X1/4 | |
| 4 | 86983771 | 1 | NIPPLE, 1/4 | |
| 5 | 80383153 | 1 | TUBE FITTING, 90 DEGREES, 1/4X3/8 TUBE | |
| 6 | 86683291 | 1 | PR-2 VALVE | |
| 7 | 80383217 | 1 | REDUCING BUSHING, 3/4X3/8 | |
| 8 | 80383179 | 1 | TUBE FITTING, 3/8X3/8 TUBE | |
| 9 | 80383152 | 1 | TUBE FITTING, 90 DEGREES, 1/4X1/4 TUBE | |
| 10 | 80383169 | 1 | TUBE FITTING, 45 DEGREES, 1/2X1/2 TUBE | |
| 11 | 88661113 | 1 | MALE ELBOW, 90 DEGREES, 1/2X1/2 TUBE | |
| 12 | 86671121 | 1 | DRAIN COCK | |
| 13 | 84521057 | 1 | SAFETY VALVE | |
| 14 | 88712234 | 1 | STREET TEE, 1/2 | |
| 15 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 16 | 80386028 | 4 | AIR TANK STRAP | |
| 17 | 88521406 | 8 | HEX LOCKNUT, 3/8-24 | |
| 18 | 80386027 | 2 | AIR TANK SUPPORT BRACKET | |
| 19 | 88201067 | 4 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 | |
| 20 | 88501008 | 4 | HEX NUT, 1/2-13 | |
| 21 to 100 | Not Used | | | |
| | 80385025 | 1 | AIR RESERVOIR & VALVE ASSY, OUTER, (includes items 101 thru 112) | |
| 101 | 80383077 | 1 | AIR TANK | |
| 102 | 80383216 | 2 | REDUCING BUSHING, 3/4X1/2 | |
| 103 | 80383156 | 1 | TUBE FITTING, 90 DEGREES, 1/2-3/8 | |
| 104 | 86983651 | 1 | BRASS TEE | |
| 105 | 80383168 | 1 | TUBE FITTING, 45 DEGREES, 3/8-1/2 | |
| 106 | 80383154 | 1 | TUBE FITTING, 90 DEGREES, 3/8-3/8 | |
| 107 | 86683294 | 1 | CHECK VALVE | |
| 108 | 80383217 | 1 | REDUCING BUSHING, 3/4X3/8 | |
| 109 | 86671121 | 1 | DRAIN COCK, 3/8 | |
| 110 | 80383219 | 1 | SQUARE HD PIPE PLUG, 1/4 | |
| 111 | 80383157 | 1 | TUBE FITTING, 90 DEGREES, 1/2-1/2 | |
| 112 | 80383220 | 1 | SQUARE HD PIPE PLUG, 3/4 | |

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**Figure 4-15 Air System Components**



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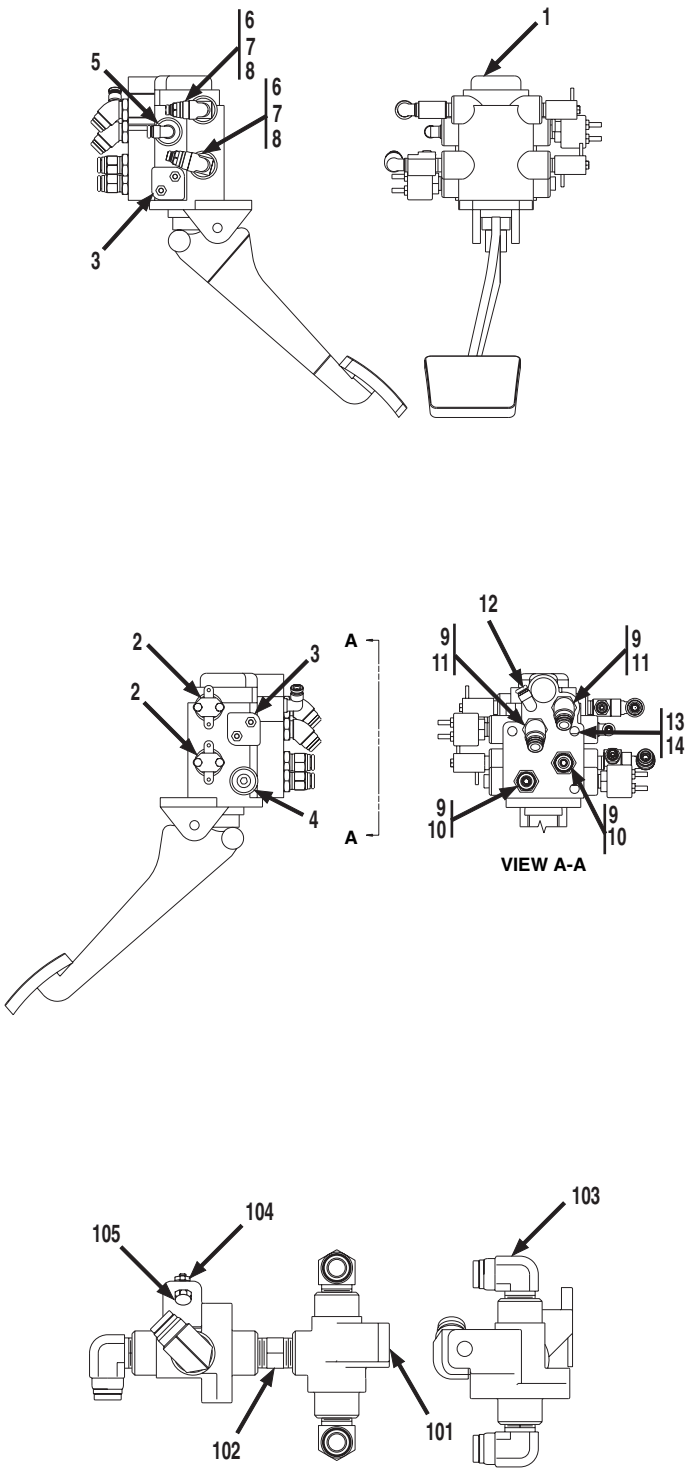
**Figure 4-15 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385026 | 1 | RELAY VALVE ASSY, (rear spring), (includes items 1 thru 8) | |
| 1 | 83683374 | 1 | RELAY VALVE | |
| 2 | 86683293 | 1 | DOUBLE CHECK VALVE | |
| 3 | 80383154 | 1 | TUBE FITTING, 3/8X3/8 | |
| 4 | 80383143 | 1 | TUBE FITTING, 3/8X1/2 | |
| 5 | 80383153 | 1 | TUBE FITTING, 1/4X3/8 | |
| 6 | 88712109 | 1 | HEX NIPPLE, 3/8X3/8 | |
| 7 | 86983772 | 1 | HEX. HD. PLUG, 3/8 | |
| 8 | 80383215 | 1 | REDUCING BUSHING, 1/2X3/8 | |
| 9 | 77143006 | 2 | WHIZ-LOK NUT, 5/16-18 | |
| 10 to 100 | Not Used | | | |
| | 80385031 | 1 | RELAY VALVE ASSY, (front service), (includes items 101 thru 105) | |
| 101 | 83683374 | 1 | RELAY VALVE | |
| 102 | 80383154 | 2 | TUBE FITTING, 3/8X3/8 | |
| 103 | 80383144 | 1 | TUBE FITTING, 1/2X1/2 | |
| 104 | 80383153 | 1 | TUBE FITTING, 1/4X3/8 | |
| 105 | 86983772 | 1 | HEX HD PLUG, 3/8 | |
| 106 | 77143006 | 2 | WHIZ-LOK NUT, 5/16-18 | |
| 107 to 200 | Not Used | | | |
| | 80385027 | 1 | RELAY VALVE ASSY, (rear service), (includes items 201 thru 208) | |
| 201 | 83683374 | 1 | RELAY VALVE | |
| 202 | 86683293 | 1 | DOUBLE CHECK VALVE | |
| 203 | 80383154 | 2 | TUBE FITTING, 3/8X3/8 | |
| 204 | 80383142 | 1 | TUBE FITTING, 3/8X3/8 | |
| 205 | 80383193 | 1 | TUBE FITTING, 1/2X1/2 | |
| 206 | 86983655 | 1 | HEX NIPPLE, 3/8 | |
| 207 | 86983772 | 1 | HEX HD PLUG, 3/8 | |
| 208 | 80383155 | 2 | TUBE FITTING, 3/8X1/2 | |
| 209 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |

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**Figure 4-16 Air System Components**



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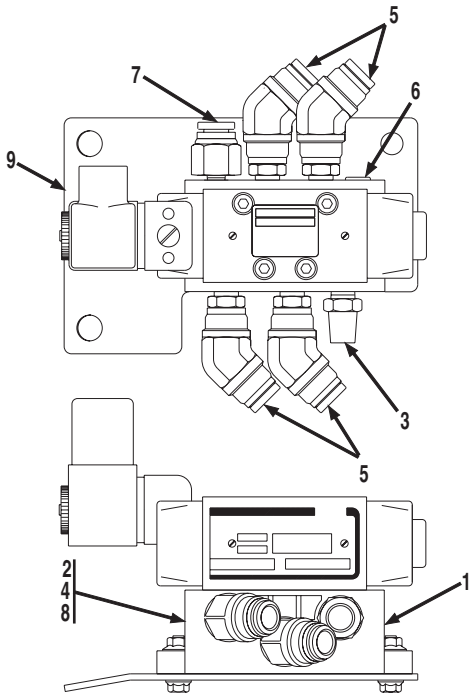
**Figure 4-16 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385045 | 1 | FOOT PEDAL VALVE ASSY, (includes items 1 thru 12) | |
| 1 | 80383064 | 1 | FOOT PEDAL VALVE | |
| 2 | 86883033 | 2 | LOW PRESSURE INDICATOR | |
| 3 | 77163231 | 2 | STOP LIGHT SWITCH | |
| 4 | 88711281 | 1 | HEX PLUG, 1/4 | |
| 5 | 80383152 | 1 | ELBOW, 90 DEGREES, 1/4 X 1/4 TUBE | |
| 6 | 86883118 | 2 | STREET TEE, 1/4 | |
| 7 | 80383153 | 2 | ELBOW, 90 DEGREES, 1/4 X 1/4 TUBE | |
| 8 | 80383140 | 2 | STRAIGHT FITTING, 1/4 X 1/4 TUBE | |
| 9 | 80383215 | 4 | BUSHING, 1/2 X 3/8 | |
| 10 | 80383142 | 2 | CONNECTOR, 3/8 X 3/8 TUBE | |
| 11 | 80383167 | 2 | TUBE FITTING, 45 DEGREES, 3/8 X 3/8 TUBE | |
| 12 | 80383151 | 1 | TUBE FITTING, 90 DEGREES, 1/8 X 1/4 TUBE | |
| 13 | 88201035 | 3 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 14 | 88551011 | 3 | SPRING LOCK WASHER, 3/8 | |
| 15 to 100 | Not Used | | | |
| | 80385028 | 1 | DOUBLE CHECK VALVE ASSY, (includes items 101 thru 103) | |
| 101 | 86683293 | 2 | DOUBLE CHECK VALVE | |
| 102 | 80383213 | 1 | HEX NIPPLE, 3/8X3/8 | |
| 103 | 80383154 | 4 | TUBE FITTING, 90 DEGREES, 3/8X3/8 | |
| 104 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |
| 105 | 77143004 | 1 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |

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**Figure 4-17 Air System Components**



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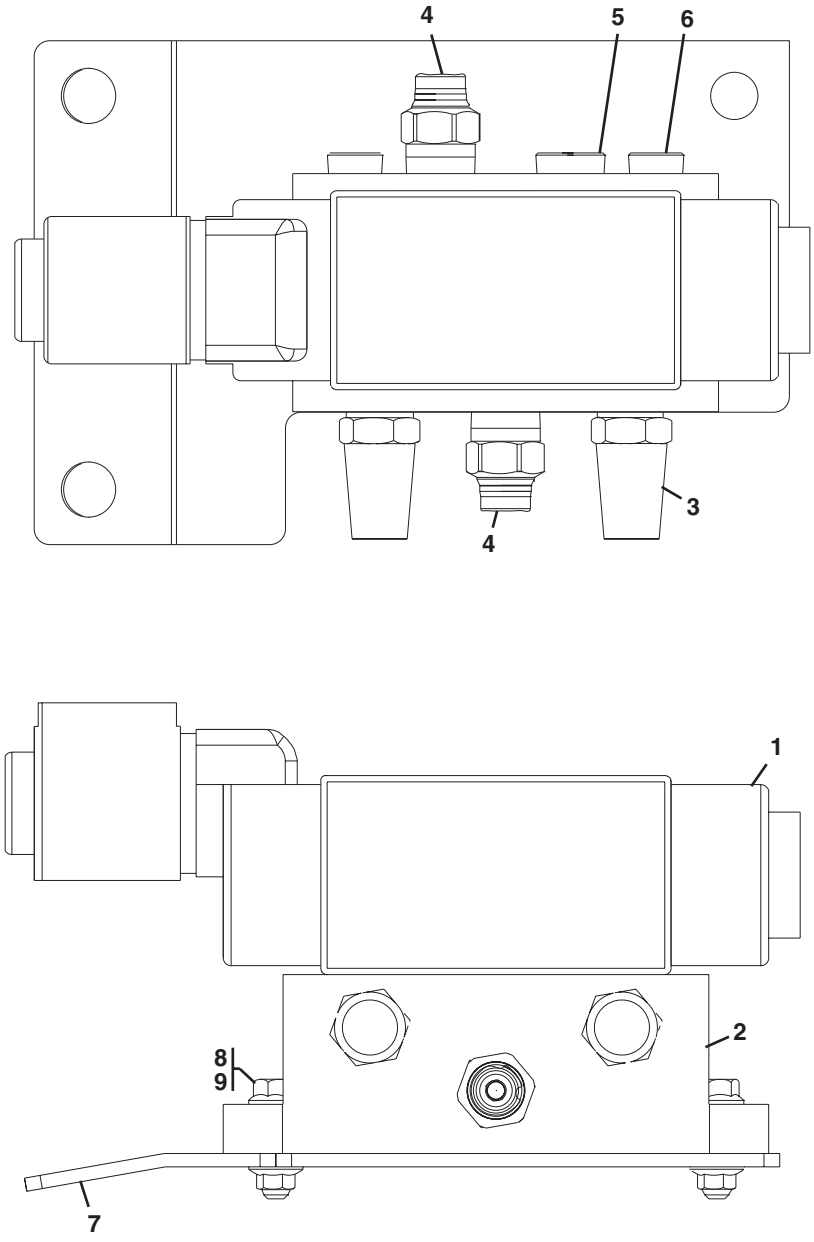
**Figure 4-17 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485038 | 1 | AIR VALVE ASSY, (includes all items) | |
| 1 | 80383295 | 1 | 4-WAY AIR VALVE | |
| 2 | 77383550 | 1 | SUBBASE | |
| 3 | 77383551 | 1 | MUFFLER, 1/4 | |
| 4 | 77143017 | 2 | WHIZ-LOK NUT, #10-24 | |
| 5 | 80383172 | 4 | TUBE FITTING, 45 DEGREES, 1/4X3/8 | |
| 6 | 80383222 | 1 | SLOTTED PIPE PLUG, 1/8 | |
| 7 | 80383139 | 1 | CONNECTOR, 1/8X1/4 | |
| 8 | 77143016 | 2 | WHIZ-LOK SCREW, #10-24 | |
| 9 | 80381152 | 1 | VALVE BRAKET | |

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**Figure 4-18 Air System Components**



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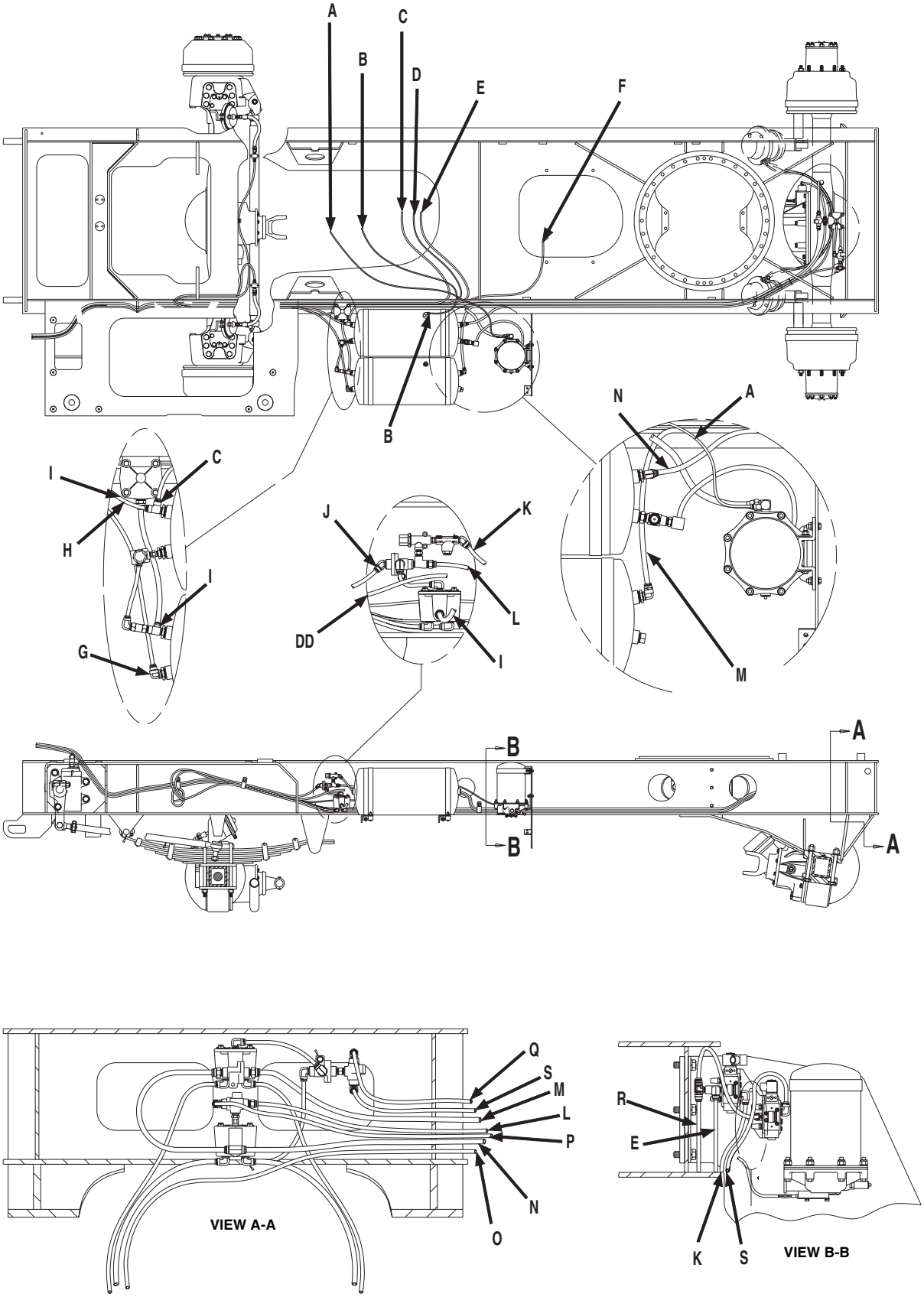
**Figure 4-18 Air System Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485040 | 1 | EXHAUST BRAKE AIR VALVE, (includes all items) | |
| 1 | 80383295 | 1 | 4-WAY AIR VALVE | |
| 2 | 77383550 | 1 | SUBBASE | |
| 3 | 77383551 | 2 | MUFFLER, 1/4 | |
| 4 | 80383140 | 2 | TUBE FITTING, STRAIGHT, 1/4X1/4 | |
| 5 | 80383221 | 1 | SLOTTED PLUG, 1/4 | |
| 6 | 80283222 | 2 | SLOTTED PLUG, 1/8 | |
| 7 | 80381152 | 1 | VALVE BRACKET | |
| 8 | 77143016 | 2 | WHIZ-LOCK SCREW, 10-24 | |
| 9 | 77143017 | 2 | WHIX-LOCKNUT, 10-24 | |

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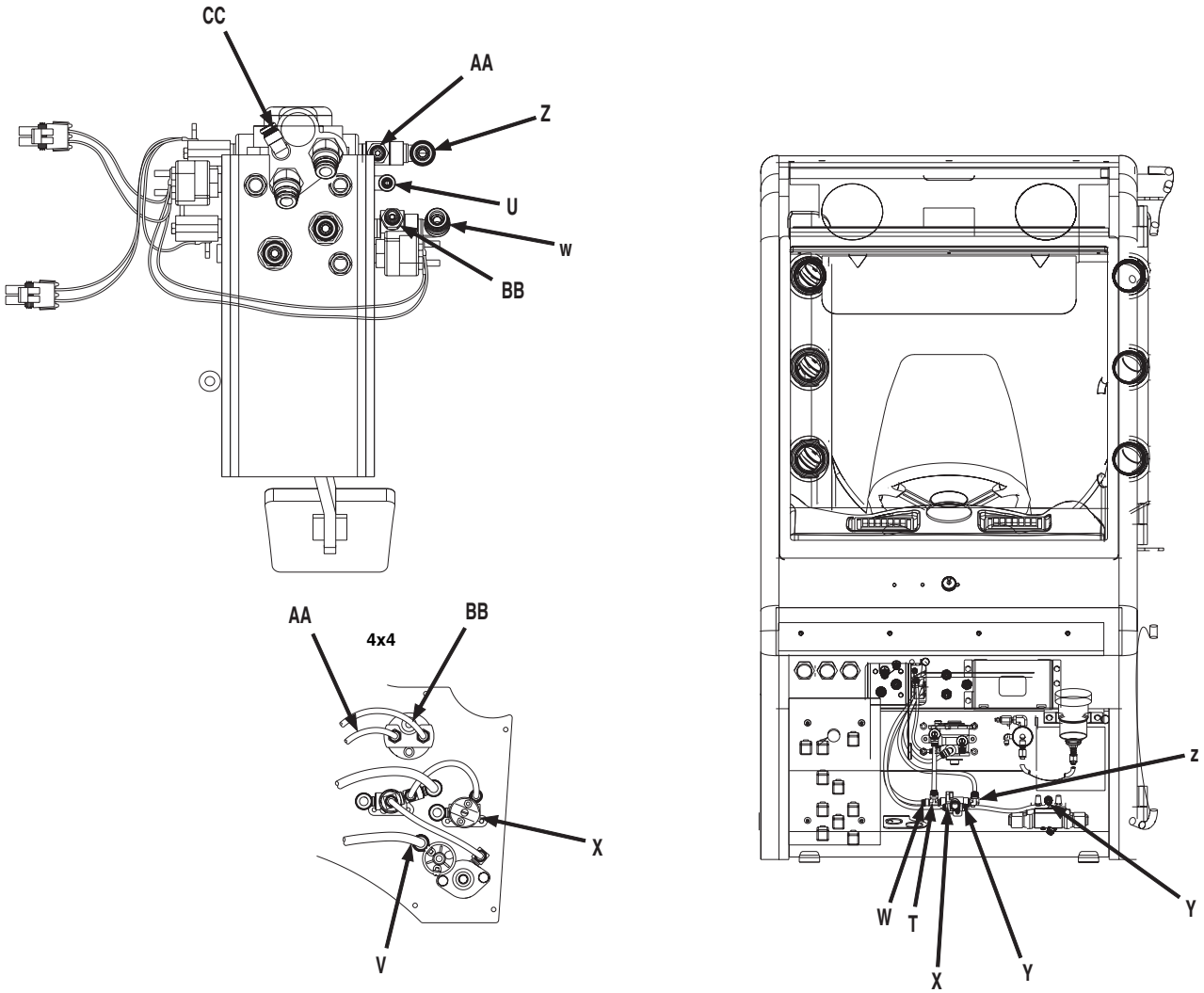
**Figure 4-19 Air Hose Routing**



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**Figure 4-19 Air Hose Routing (Continued)**



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**Figure 4-19 Air Hose Routing**

| Item | Part Number | Qty. | Description<br>AIR LINE DESCRIPTIONS, DESIGNATIONS & SIZES | Rev. |
|---|---|---|---|---|
| A | | | AIR DRYER TO RUN-T FITTING ON GOVERNER, PORT “UN2” (1/4) | |
| B | | | TANK #1 TO GOVERNOR, PORT “C1” (1/4) | |
| C | | | TANK #1 TO TOP PORT ON TRANSMISSION REGULATOR (3/8) | |
| D | | | PTO DISCONNECTS TO REMOTE TRAVEL VALVE “PTO DISENGAGE” | |
| E | | | BRAKE INTERFACE TO PTO DISCONNECTS (3/8) “ENGAGE” | |
| F | | | FRONT AXLE DRIVE VALVE IN DASH TO TRANSFER CASE (3/8) | |
| G | | | TANK #2 TO BRAKE PEDAL “S2” (3/8) | |
| H | | | TANK #1 TO BRAKE PEDAL “S1” (3/8) | |
| I | | | TANK #2 TO FRONT SERVICE RELAY SUPPLY (1/2) | |
| J | | | FRONT RELAY TO BRAKE PEDAL “D2” (3/8) | |
| K | | | BRAKE INTERFACE TO FRONT RELAY REGULATOR (3/8) | |
| L | | | REAR SERVICE RELAY CHECK TO FRONT SERVICE RELAY TEE (3/8) | |
| M | | | REAR SPRING RELAY SUPPLY TO TANK #2 (1/2) | |
| N | | | REAR SERVICE RELAY SUPPLY TO TANK #1 (1/2) | |
| O | | | AXLE DIFFERENTIAL VALVE IN DASH TO REAR AXLE (3/8) | |
| P | | | REAR RELAY TO BRAKE PEDAL “D1” (3/8) TRAVEL VALVE “REMOTE” (3/8) | |
| Q | | | SPRING BRAKE VALVE “DEL” TO SPRING BRAKE RELAY “CONTROL” (3/8) | |
| R | | | BRAKE INTERFACE VALVE TO REMOTE TRAVEL VALVE “REMOTE” | |
| S | | | REAR SPRING RELAY TO UPPER EMERGENCY (3/8) | |
| T | | | SPRING BRAKE VALVE TO DOUBLE CHECK VALVE (3/8) | |
| U | | | SPRING BRAKE VALVE TO BRAKE PEDAL (1/4) | |
| V | | | TO EMERGENCY VALVE “DELIVERY” (3/8) | |
| W | | | DOUBLE CHECK VALVE TO BRAKE PEDAL (3/8) | |
| X | | | DOUBLE CHECK TO BRAKE PEDAL (3/8) | |
| Y | | | DOUBLE CHECK VALVE TO 4-WAY AIR VALVE (3/8) | |
| Z | | | DOUBLE CHECK VALVE TO BRAKE PEDAL (3/8) | |
| AA | | | TO AIR GAGE “GREEN” (1/4) | |
| BB | | | TO AIR GAGE “ORANGE” (1/4) | |
| CC | | | SUPPLY TO AIR SEAT (1/4) | |
| DD | | | FRONT RELAY REGULATOR TO OSCILLATION LOCK VALVE (1/4) | |

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**Figure 4-19 Air Hose Routing (Continued)**

| Item | Part Number | Qty. | Description<br>AIR LINE DESCRIPTIONS, DESIGNATIONS & SIZES | Rev. |
|---|---|---|---|---|
| | | | | |

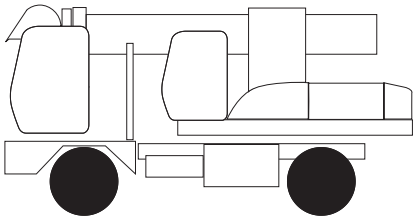
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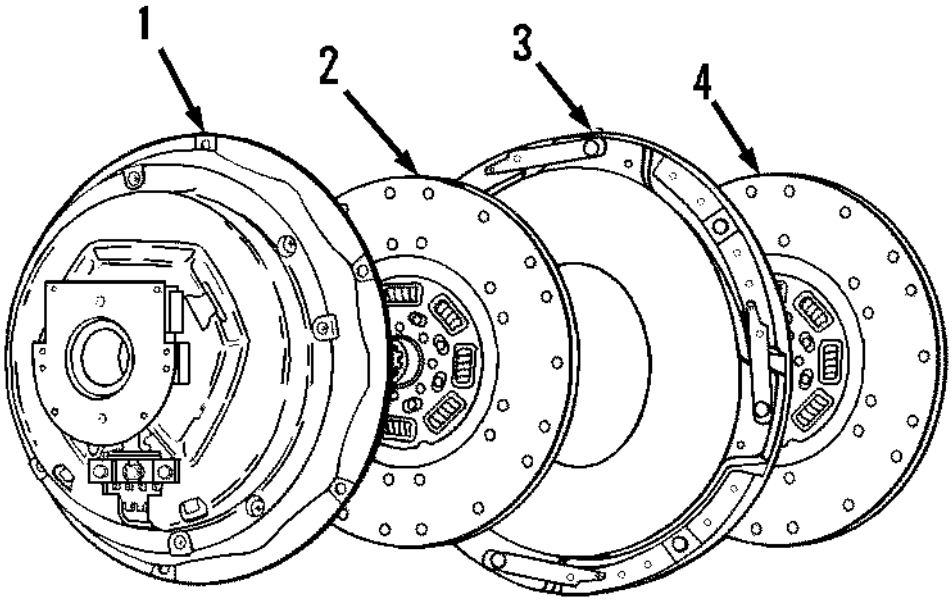
# SECTION 5
# DRIVE TRAIN



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**Figure 5-1 Clutch Assembly**



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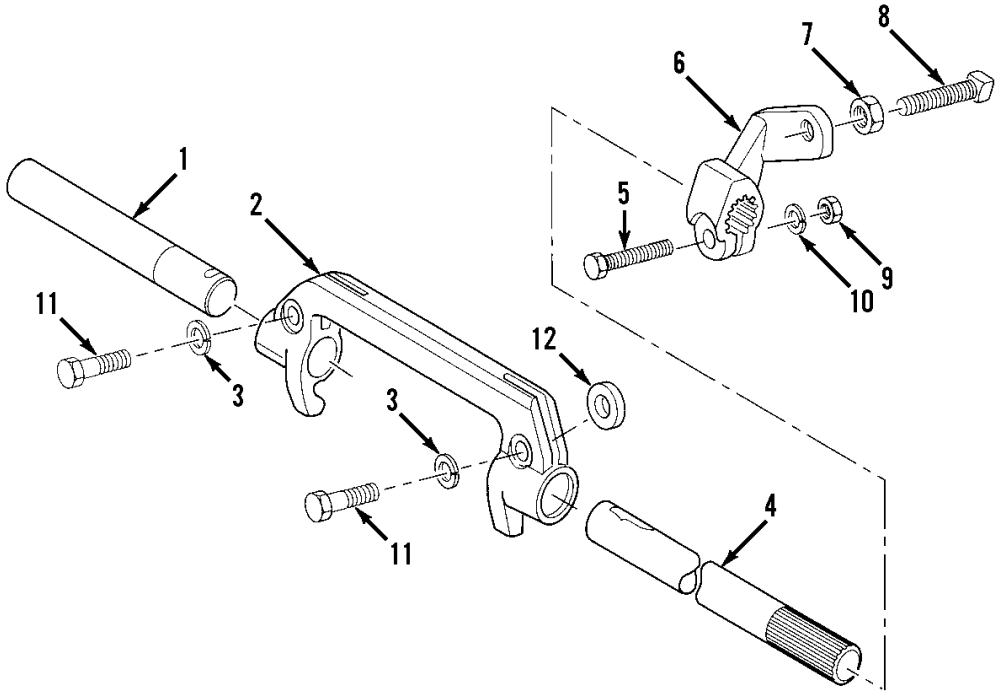
**Figure 5-1 Clutch Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80683204 | Ref | CLUTCH ASSY, (includes all items) | |
| 1 | 80684268 | 1 | COVER ASSY | |
| 2 | 80684267 | 1 | REAR DISC | |
| 3 | 80684266 | 1 | INNER PLATE | |
| 4 | 80684265 | 1 | FRONT DISC | |

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**Figure 5-2 Clutch Release Bearing**



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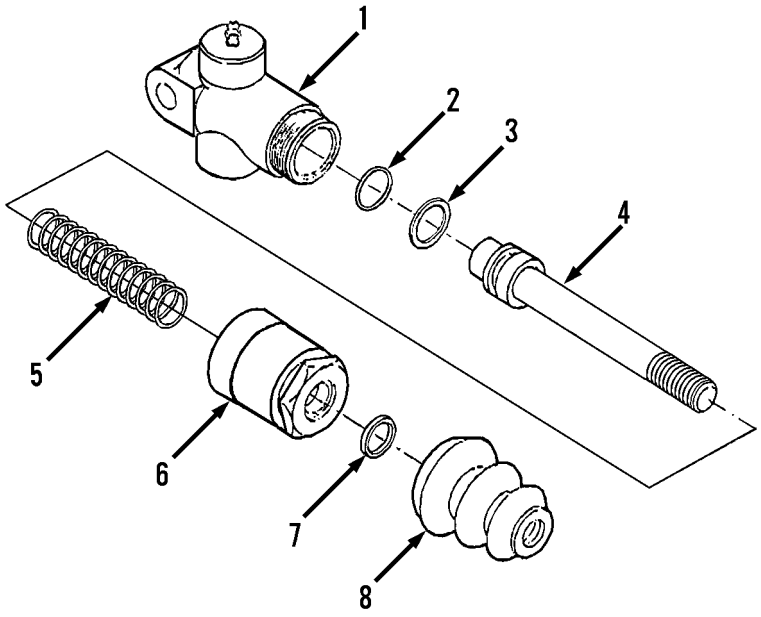
**Figure 5-2 Clutch Release Bearing**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83684578 | 1 | PEDAL SHAFT | |
| 2 | 80384354 | 1 | RELEASE YOKE | |
| 3 | 80984100 | 2 | LOCKWASHER | |
| 4 | 83684581 | 1 | PEDAL SHAFT | |
| 5 | 83684582 | 1 | HEX HD CAPSCREW | |
| 6 | 83073561 | 1 | ADJUSTING ARM | |
| 7 | 83684584 | 1 | HEX NUT | |
| 8 | 83684585 | 1 | SET SCREW | |
| 9 | 83073416 | 1 | HEX NUT | |
| 10 | 83074061 | 1 | LOCKWASHER | |
| 11 | 80984407 | 2 | BOLT, 7/16X1-1/4 | |
| 12 | 83072622 | 1 | KEY | |

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**Figure 5-3 Slave Valve**



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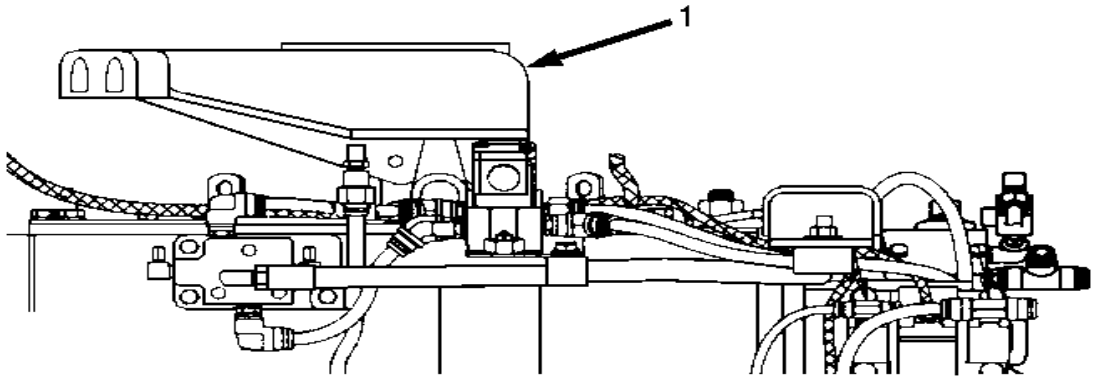
**Figure 5-3 Slave Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383011 | 1 | SLAVE VALVE, (includes all items) | |
| 1 | | 1 | VALVE BODY | |
| 2 | | 1 | SEAL | |
| 3 | | 1 | BACK-UP RING | |
| 4 | | 1 | PISTON/PUSH ROD ASSY | |
| 5 | | 1 | SPRING | |
| 6 | | 1 | END CAP | |
| 7 | | 1 | SEAL | |
| 8 | | 1 | BOOT | |
| | 80384308 | 1 | SLAVE VALVE SEAL KIT, (includes items 2, 3, 7 & 8) | |

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**Figure 5-4 Transmission - Slave Control**



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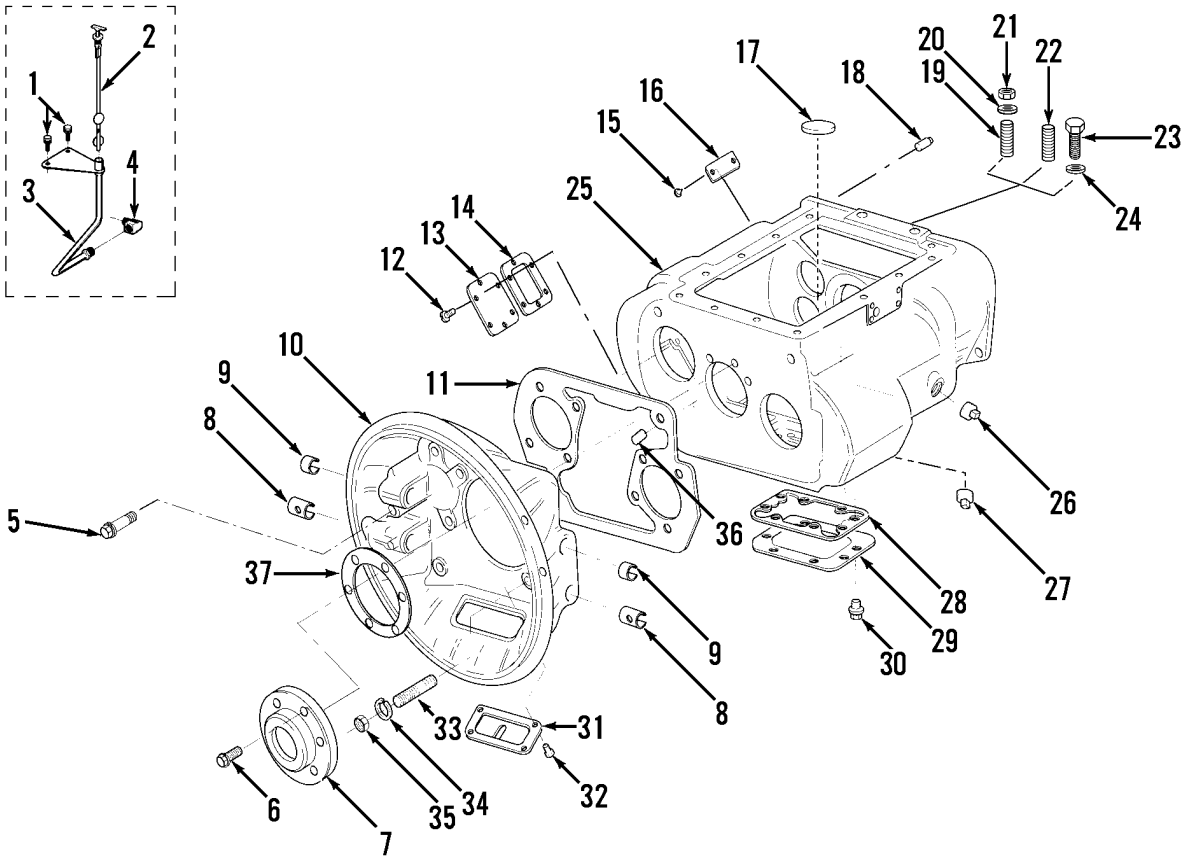
**Figure 5-4 Transmission - Slave Control**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80483013 | 1 | MAIN TRANSMISSION, (includes all items) | |
| | | Ref | CLUTCH HOUSING, (see Figure 5-5 for details) | |
| | | Ref | SHIFT BAR HOUSING, (see Figure 5-6 for details) | |
| | | Ref | REVERSE IDLER, INPUT SHAFT & DRIVE GEAR, (see Figure 5-7 for details) | |
| | | Ref | MAINSHAFT & COUNTERSHAFT GEARS, (see Figure 5-8 for details) | |
| | | Ref | AUXILIARY MAINSHAFT, (see Figure 5-9 for details) | |
| | | Ref | AUXILIARY CASE, (see Figure 5-10 for details) | |
| | | Ref | RANGE CYLINDER, (see Figure 5-11 for details) | |
| | | Ref | AUXILIARY COUNTERSHAFT & AUXILIARY DRIVE GEAR, (see Figure 5-12 for details) | |
| | | Ref | SLAVE VALVE, (see Figure 5-13 for details) | |
| 1 | 80983059 | 1 | SLAVE CONTROL | |
| | 80984440 | 1 | SLAVE CONTROL REPAIR KIT, (includes the following items) | |
| | | 2 | U-BOLT | |
| | | 1 | O-RING | |
| | | 1 | O-RING | |
| | | 1 | QUAD SEAL | |
| | | 1 | BOLT | |
| | | 1 | KEY | |
| | | 2 | SCREW | |
| | | 1 | LOCKNUT | |
| | | 4 | LOCKNUT | |
| | | 1 | FLAT WASHER | |
| | | 1 | PIN | |
| | | 1 | PIN | |
| | | 2 | RING | |
| | | 1 | OIL SEAL | |
| | | 1 | CAP | |
| | | 2 | BUSHING | |
| | | 1 | BUSHING | |
| | 80384351 | 1 | TRANSMISSION GASKET KIT, (includes designated items on Figures 5-5, 5-6, 5-10, 5-11 & 5-13) | |
| | 80384353 | 1 | BASIC TRANSMISSION OVERHAUL KIT, (includes designated items on Figures 5-5, 5-7, 5-8, 5-9 & 5-12) | |
| | 80384352 | 1 | BASIC TRANSMISSION REBUILD KIT, (includes designated items on Figures 5-7, 5-8, 5-9 & 5-12) | |

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**Figure 5-5 Transmission - Clutch Housing**



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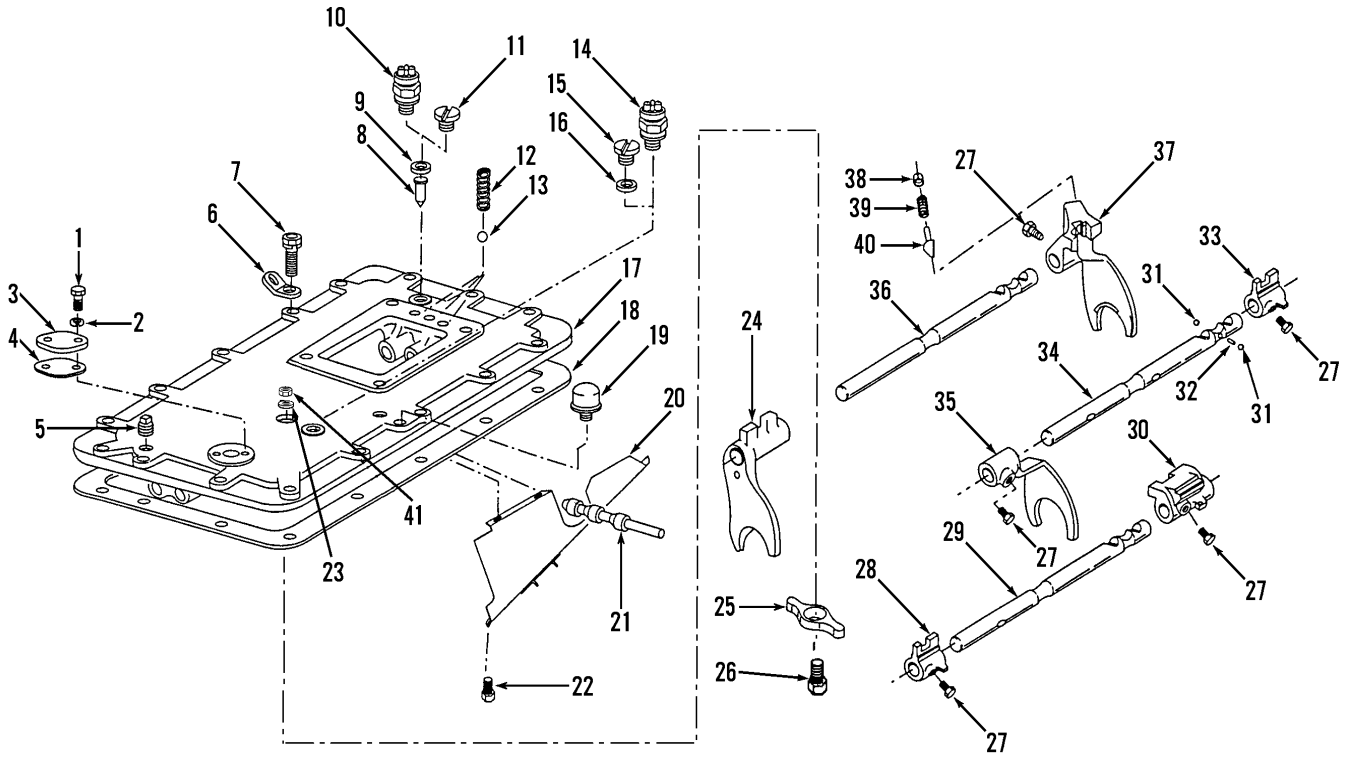
**Figure 5-5 Transmission - Clutch Housing**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86984171 | 2 | CAPSCREW | |
| 2 | 80984265 | 1 | DIPSTICK | |
| 3 | 80984266 | 1 | TUBE | |
| 4 | 80984267 | 1 | ELBOW | |
| 5 | 86984189 | 2 | CAPSCREW, 1/2-13X1-1/2 | |
| 6 | 83071260 | 6 | CAPSCREW, 3/8-16X1-1/4 | |
| 7 | 80984282 | 1 | FRONT BEARING COVER | |
| 8 | 83384072 | 1 | BUSHING | |
| 9 | 86984196 | 2 | BUSHING | |
| 10 | 86984195 | 1 | CLUTCH HOUSING | |
| 11 | 80984270 | 1 | GASKET | |
| 12 | 83684686 | 6 | CAPSCREW, 3/8-16X3/4 | |
| 13 | 86984200 | 1 | PTO COVER | |
| 14 | 83071267 | 1 | GASKET | |
| 15 | 80984271 | 2 | SELF TAPPING SCREW, 5/16 | |
| 17 | 86984203 | 3 | MAGNET | |
| 18 | 80984273 | 2 | PIN | |
| 19 | 86984207 | 2 | STUD | |
| 20 | 86984206 | 2 | LOCKWASHER | |
| 21 | 86984205 | 2 | NUT | |
| 22 | 80984274 | 2 | PLUG | |
| 23 | 80984275 | 2 | CAPSCREW, 5/8-11X1-1/4 | |
| 24 | 80984276 | 2 | SPACER | |
| 25 | 86984202 | 1 | CASE ASSY | |
| 26 | 83074435 | 1 | PIPE PLUG | |
| 27 | 86984208 | 1 | PIPE PLUG | |
| 28 | 80984278 | 1 | GASKET | |
| 29 | 80984279 | 1 | PTO COVER | |
| 30 | 86984210 | 8 | CAPSCREW | |
| 31 | 80984280 | 1 | HAND HOLE COVER | |
| 32 | 86984194 | 2 | CAPSCREW, 5/16-18X1/2 | |
| 33 | 80984281 | 6 | STUD | |
| 34 | 86984206 | 6 | LOCKWASHER | |
| 35 | 86984205 | 6 | NUT | |
| 36 | 86984201 | 1 | PIPE PLUG | |
| 37 | 83384075 | 1 | GASKET | |
| | 80384346 | 1 | DIPSTICK KIT, (includes items 1, 2, 3 & 4) | |
| | 80384351 | 1 | GASKET KIT, (includes items 11, 14, 28 & 37 & designated items on Figures 5-6, 5-10, 5-11 & 5-13) | |
| | 80384353 | 1 | BASIC OVERHAUL KIT, (includes item 36 & designated items on Figures 5-7, 5-8, 5-9 & 5-12) | |

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**Figure 5-6 Transmission - Shift Bar Housing**



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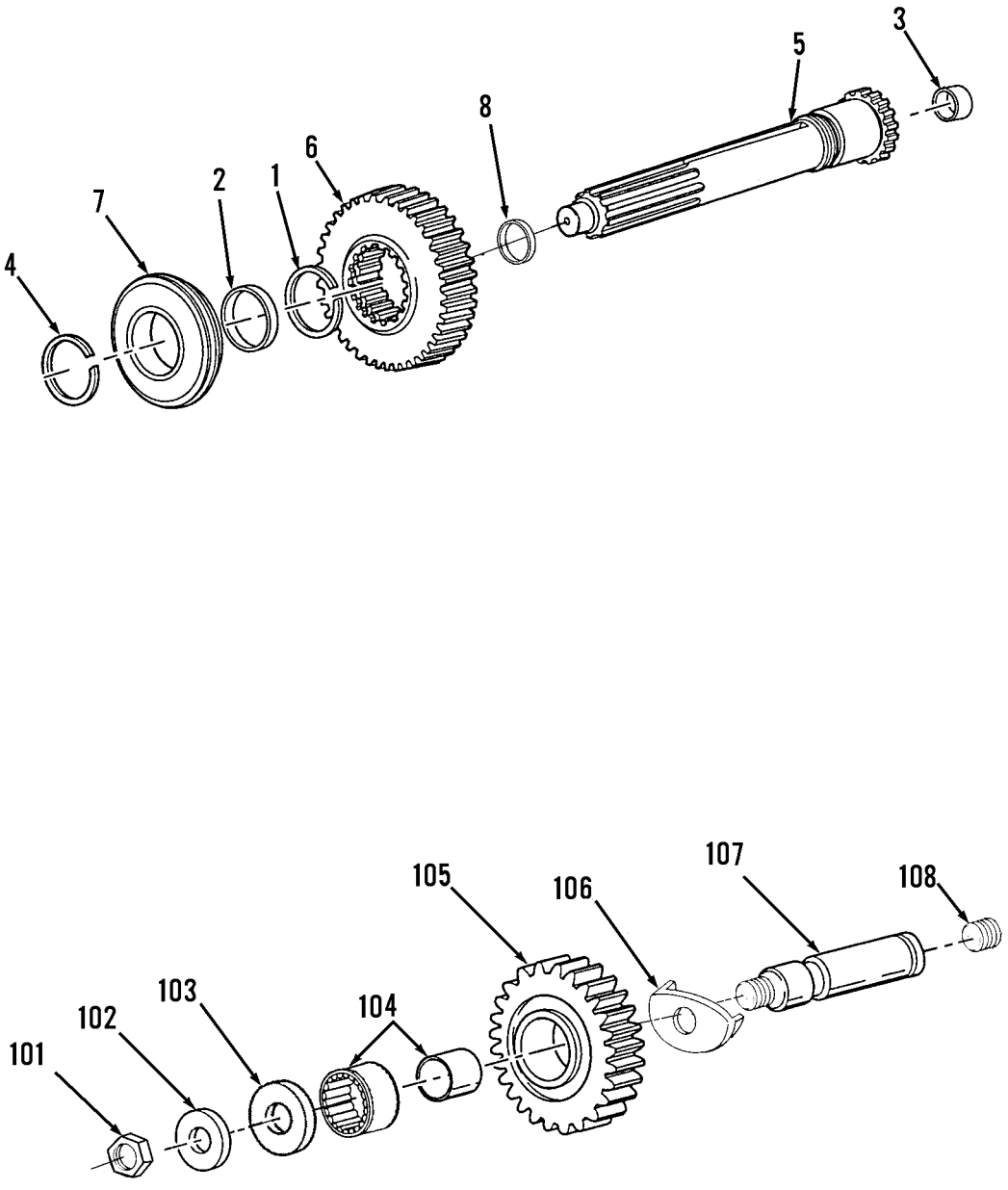
**Figure 5-6 Transmission - Shift Bar Housing**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80984283 | 1 | SHIFT BAR HOUSING, (includes all items) | |
| 1 | 80984284 | 2 | CAPSCREW, 1/4-20X3/4 | |
| 2 | 80384002 | 2 | LOCKWASHER | |
| 3 | 86984165 | 1 | PLATE | |
| 4 | 80984287 | 1 | GASKET | |
| 5 | 80984288 | 1 | PIPE PLUG | |
| 6 | 83684685 | 2 | LIFTING EYE | |
| 7 | 83071260 | 16 | CAPSCREW, 3/8-16X1-1/4 | |
| 8 | 80984289 | 1 | PIN | |
| 9 | 80984290 | 1 | GASKET | |
| 10 | 80984291 | 1 | REVERSE LIGHT SWITCH | |
| 11 | 86984172 | 1 | PLUG | |
| 12 | 83071337 | 3 | SPRING | |
| 13 | 83071317 | 3 | STEEL BALL | |
| 14 | 80984293 | 1 | NEUTRAL LIGHT SWITCH | |
| 15 | 80384003 | 1 | PLUG | |
| 16 | 80984295 | 1 | GASKET | |
| 17 | 80384004 | 1 | SHIFT BAR HOUSING | |
| 18 | 83384122 | 1 | GASKET | |
| 19 | 80984101 | 1 | BREATHER | |
| 20 | 86984175 | 1 | OIL TROUGH | |
| 21 | 83384124 | 1 | AIR VALVE SHAFT | |
| 22 | 86984176 | 2 | CAPSCREW, 1/4-20X1/2 | |
| 23 | 83684608 | 1 | WASHER | |
| 24 | 91014033 | 1 | SHIFT YOKE | |
| 25 | 80384005 | 1 | YOKE ACTUATOR | |
| 26 | 80384006 | 1 | ACTUATOR PIVOT PIN | |
| 27 | 83384119 | 5 | LOCKSCREW | |
| 28 | 80984300 | 1 | SHIFT BLOCK | |
| 29 | 80984301 | 1 | YOKE BAR | |
| 30 | 80984302 | 1 | SHIFT BLOCK | |
| 31 | 83071318 | 2 | STEEL BALL | |
| 32 | 83071319 | 1 | INTERLOCK PIN | |
| 33 | 86984181 | 1 | SHIFT BLOCK | |
| 34 | 80984303 | 1 | YOKE BAR | |
| 35 | 80984304 | 1 | SHIFT YOKE | |
| 36 | 80984305 | 1 | YOKE BAR | |
| 37 | 80984306 | 1 | SHIFT YOKE | |
| 38 | 86984178 | 1 | PLUG | |
| 39 | 83384061 | 1 | SPRING | |
| 40 | 86984179 | 1 | PLUNGER | |
| 41 | 83684607 | 1 | NUT | |
| | 80384351 | 1 | GASKET KIT, (includes item 18 & designated items on Figures 5-5, 5-10, 5-11, & 5-13) | |

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**Figure 5-7 Transmission - Reverse Idler, Input Shaft & Drive Gear**



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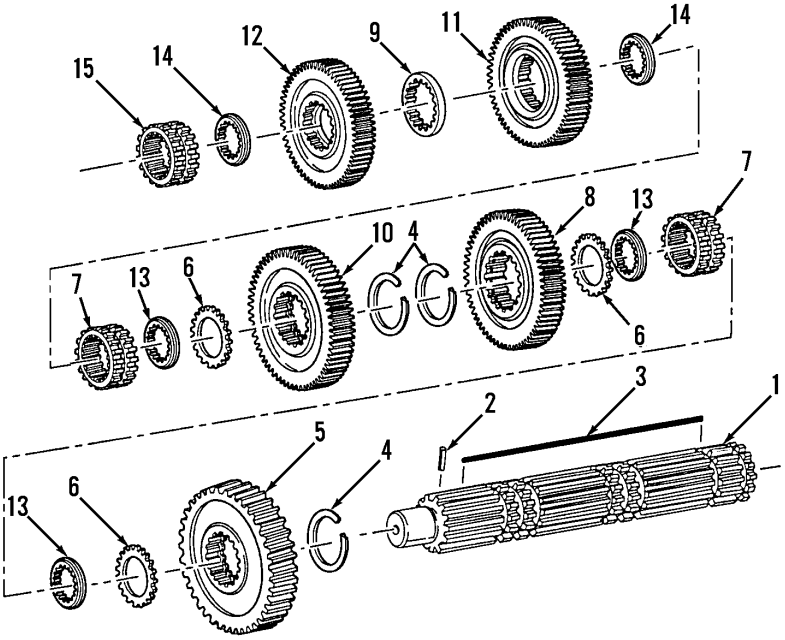
**Figure 5-7 Transmission - Reverse Idler, Input Shaft & Drive Gear**

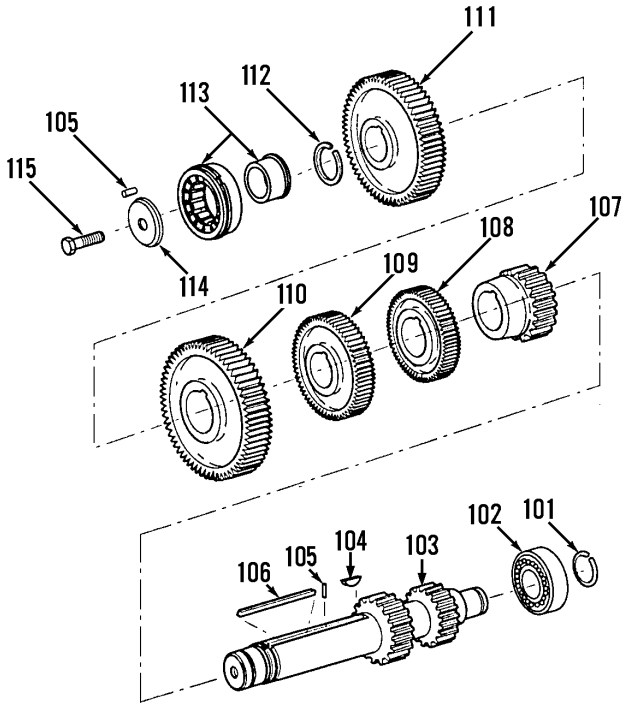
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86984235 | 1 | SNAP RING | |
| 2 | 86984223 | 1 | SPACER | |
| 3 | 86984226 | 1 | BUSHING | |
| 4 | 80984307 | 1 | SNAP RING | |
| 5 | 80384041 | 1 | INPUT SHAFT | |
| 6 | 80384042 | 1 | MAIN DRIVE GEAR | |
| 7 | 80384043 | 1 | BEARING | |
| 8 | | 1 | SLEEVE | |
| 9 to 100 | Not Used | | | |
| 101 | 86984216 | 2 | HEX NUT | |
| 102 | 86984219 | 2 | IDLER PLATE | |
| 103 | 86984217 | 2 | WASHER | |
| 104 | 83384089 | 2 | BEARING | |
| 105 | 83384090 | 2 | REVERSE IDLER GEAR | |
| 106 | 86984218 | 2 | WASHER | |
| 107 | 86984220 | 2 | IDLER SHAFT | |
| 108 | 86984221 | 2 | PLUG | |
| | 80384352 | 1 | BASIC REBUILD KIT, (includes items 1 & 104 & designated items on Figures 5-8, 5-9 & 5-12) | |
| | 80384353 | 1 | BASIC OVERHAUL KIT, (includes items 1, 4 & 104 & designated items on Figures 5-5, 5-8, 5-9 & 5-12) | |
| | 83384088 | 1 | IDLER SHAFT KIT, (includes items 101, 102, 106, 107 & 108) | |

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**Figure 5-8 Transmission - Mainshaft & Countershaft Gears**



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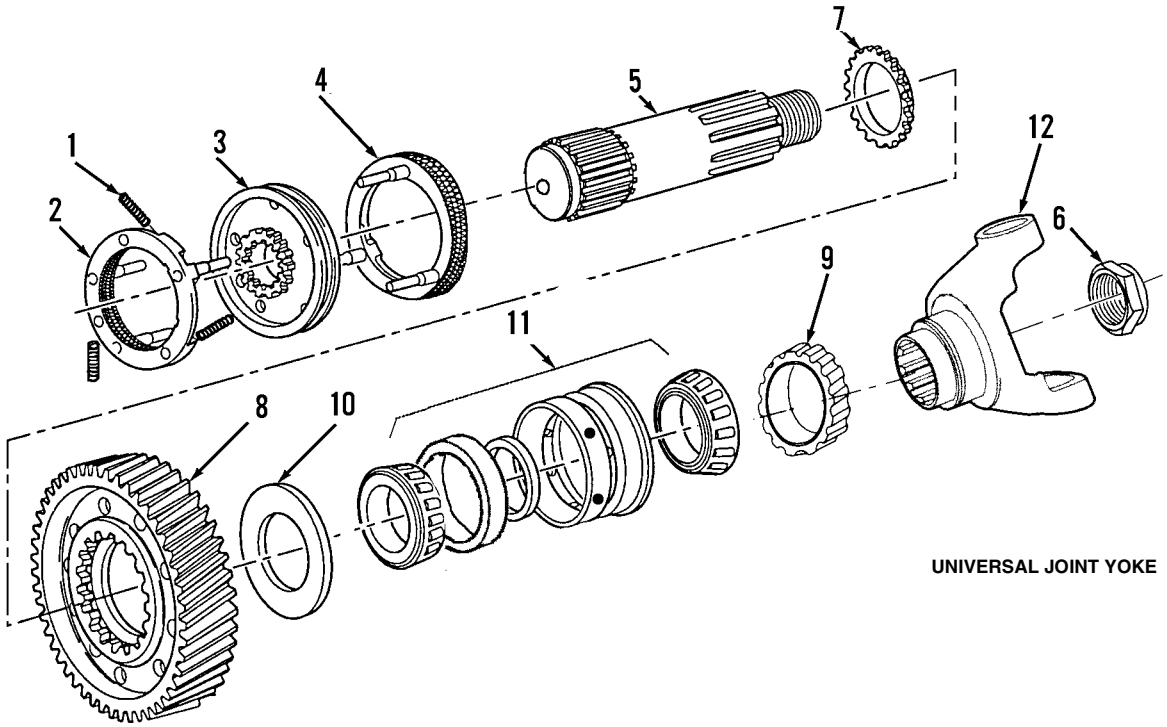
**Figure 5-8 Transmission - Mainshaft & Countershaft Gears**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80384007 | 1 | MAINSHAFT ASSY | |
| 2 | 86984236 | 1 | ROLL PIN | |
| 3 | 80384008 | 1 | 3-SIDED KEY | |
| 4 | 86984235 | 3 | SNAP RING | |
| 5 | 86984234 | 1 | MAINSHAFT REVERSE GEAR | |
| 6 | 86984233 | 3 | SPACER | |
| 7 | 86984239 | 2 | SLIDING CLUTCH | |
| 8 | 86984240 | 1 | MAINSHAFT LO-GEAR | |
| 9 | 80384009 | 2 | WASHER | |
| 10 | 80384010 | 1 | MAINSHAFT 1st GEAR | |
| 11 | 80384011 | 1 | MAINSHAFT 2nd GEAR | |
| 12 | 80384012 | 1 | MAINSHAFT GEAR O/D | |
| 13 | 80384013 | 1 | KEY & WASHER KIT (includes item 3 & selective washer) | |
| 14 | 80984322 | 2 | WASHER | |
| 15 | 80984323 | 1 | SLIDING CLUTCH | |
| 16 to 100 | Not Used | | | |
| 101 | 83384144 | 2 | SNAP RING | |
| 102 | 83384143 | 2 | BEARING | |
| 103 | 80384014 | 2 | COUNTERSHAFT | |
| 104 | 83073045 | 2 | KEY | |
| 105 | 83384086 | 4 | ROLL PIN | |
| 106 | 86984245 | 2 | KEY | |
| 107 | 80384015 | 2 | COUNTERSHAFT 1st GEAR | |
| 108 | 86984247 | 2 | COUNTERSHAFT 2nd GEAR | |
| 109 | 80384016 | 2 | COUNTERSHAFT O/D GEAR | |
| 110 | 86984249 | 1 | PTO GEAR, LOWER | |
| | 80984328 | 1 | PTO GEAR, UPPER | |
| 111 | 80384017 | 2 | COUNTERSHAFT DRIVE GEAR | |
| 112 | 80984330 | 2 | SNAP RING | |
| 113 | 80984331 | 2 | ROLLER BEARING | |
| 114 | 80984332 | 2 | RETAINER KIT | |
| 115 | 86984255 | 2 | CAPSCREW, 5/8-18X1-3/4 | |
| | 80384352 | 1 | BASIC REBUILD KIT, (includes items 4, 102 & 113 & designated items on Figures 5-7, 5-9 & 5-12) | |
| | 80384353 | 1 | BASIC OVERHAUL KIT, (includes items 4, 7, 101, 102 & 113 & designated items on Figures 5-5, 5-7, 5-9 & 5-12) | |

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**Figure 5-9 Transmission - Auxiliary Mainshaft**



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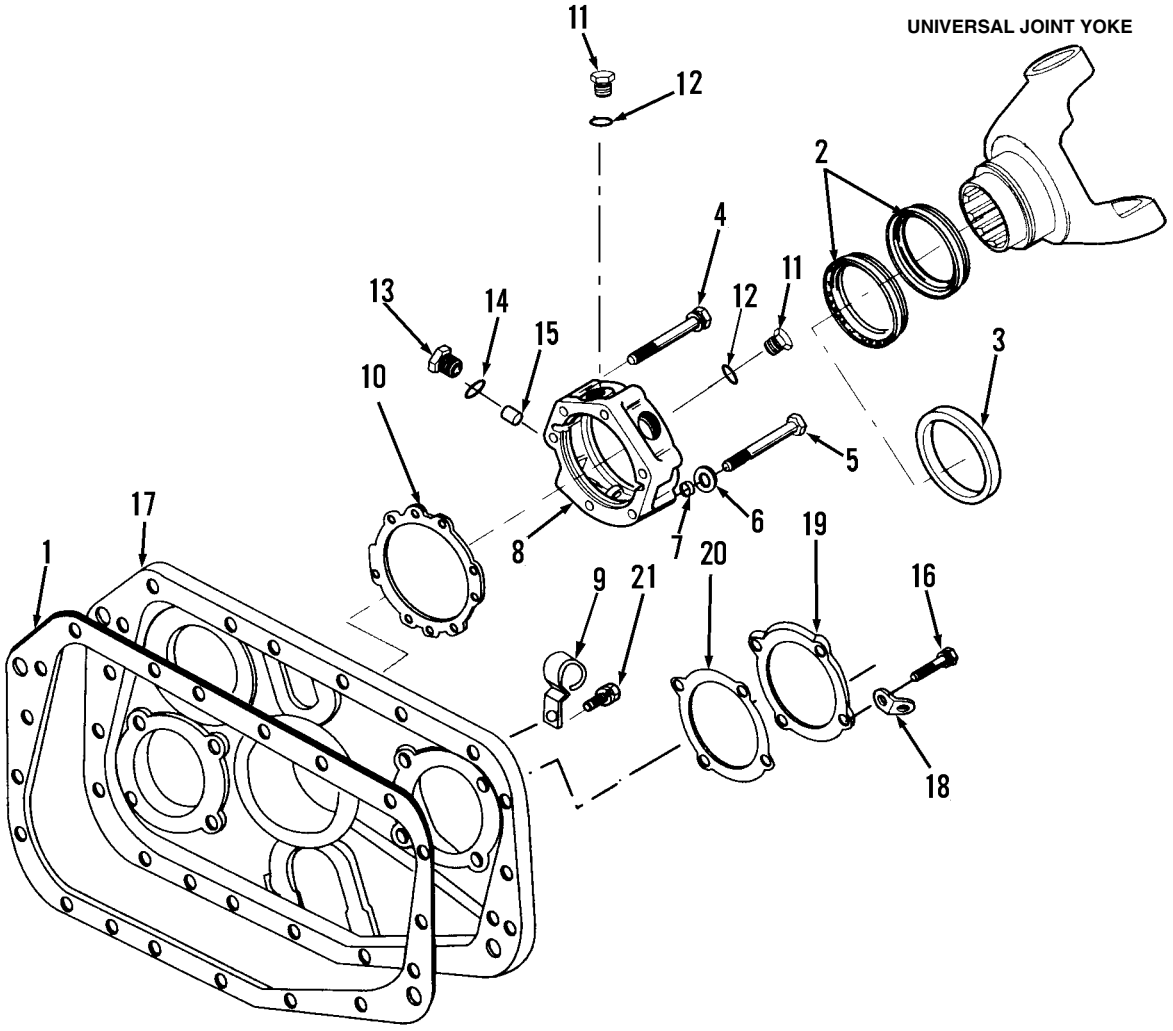
**Figure 5-9 Transmission - Auxiliary Mainshaft**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83384098 | 3 | SPRING | |
| 2 | 80984333 | 1 | SYNCHRONIZER ASSY | |
| 3 | 80984334 | 1 | SLIDING CLUTCH | |
| 4 | 80984335 | 1 | SYNCHRONIZER ASSY | |
| 5 | 80384018 | 1 | MAINSHAFT | |
| 6 | 83684657 | 1 | NUT | |
| 7 | 80384019 | 1 | SPACER | |
| 8 | 80384023 | 1 | REDUCTION GEAR | |
| 9 | 80384020 | 1 | ROTOR | |
| 10 | 80384021 | 1 | WASHER | |
| 11 | 80384022 | 1 | BEARING | |
| 12 | 80484131 | 1 | YOKE & SLINGER ASSY | |
| | 80384352 | 1 | BASIC REBUILD KIT, (includes item 1 & 11 & designated items on Figures 5-7, 5-8 & 5-12) | |
| | 83684677 | 1 | SLIDING CLUTCH KIT, (includes items 1, 2 & 3) | |
| | 80384348 | 1 | SYNCHRONIZER KIT, (includes items 1, 2 & 4) | |
| | 80384353 | 1 | BASIC OVERHAUL KIT, (includes item 1 & 11 & designated items on Figures 5-5, 5-7, 5-8 & 5-12) | |

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**Figure 5-10 Transmission - Auxiliary Case**



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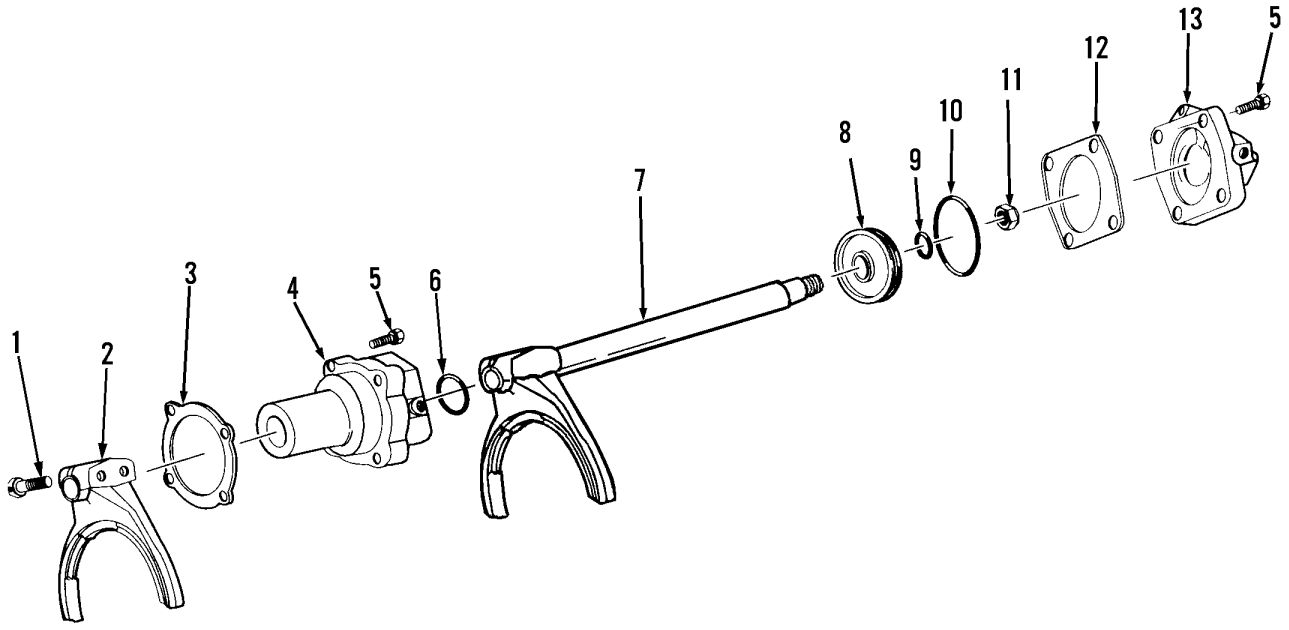
**Figure 5-10 Transmission - Auxiliary Case**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86984269 | 1 | GASKET | |
| 2 | 83684684 | 1 | OIL SEAL & SLINGER, (includes items 6, 7 & 10) | |
| 3 | 80384024 | 1 | OIL SEAL KIT, (includes items 6, 7 & 10) | |
| 4 | 80384025 | 5 | CAPSCREW | |
| 5 | 80384026 | 1 | CAPSCREW | |
| 6 | 86984281 | 1 | GASKET | |
| 7 | 86984282 | 1 | COLLAR | |
| 8 | 80384027 | 1 | REAR BEARING COVER, (includes items 6, 7, 10, 11, 13, 14 & 15) | |
| 9 | 80384028 | 1 | HOSE CLAMP | |
| 10 | 86984272 | 1 | GASKET | |
| 11 | 86984275 | 2 | MAGNETIC PLUG | |
| 12 | 83687060 | 2 | SEAL | |
| 13 | 83071255 | 1 | PLUG | |
| 14 | 80984357 | 1 | O-RING | |
| 15 | 86984274 | 1 | BUSHING | |
| 16 | 86984171 | 8 | CAPSCREW | |
| 17 | 80384029 | 1 | REAR HOUSING ASSY | |
| 18 | 80984362 | 2 | LIFTING EYE | |
| 19 | 80384030 | 2 | REAR BEARING COVER | |
| 20 | 80384031 | 2 | GASKET | |
| 21 | 86984278 | 1 | CAPSCREW, 3/8-16X3 | |
| | 80384351 | 1 | GASKET KIT, (includes items 1, 6, 7, 10 & 20 & designated items on Figures 5-5, 5-6, 5-11 & 5-13) | |

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**Figure 5-11 Transmission - Range Cylinder**



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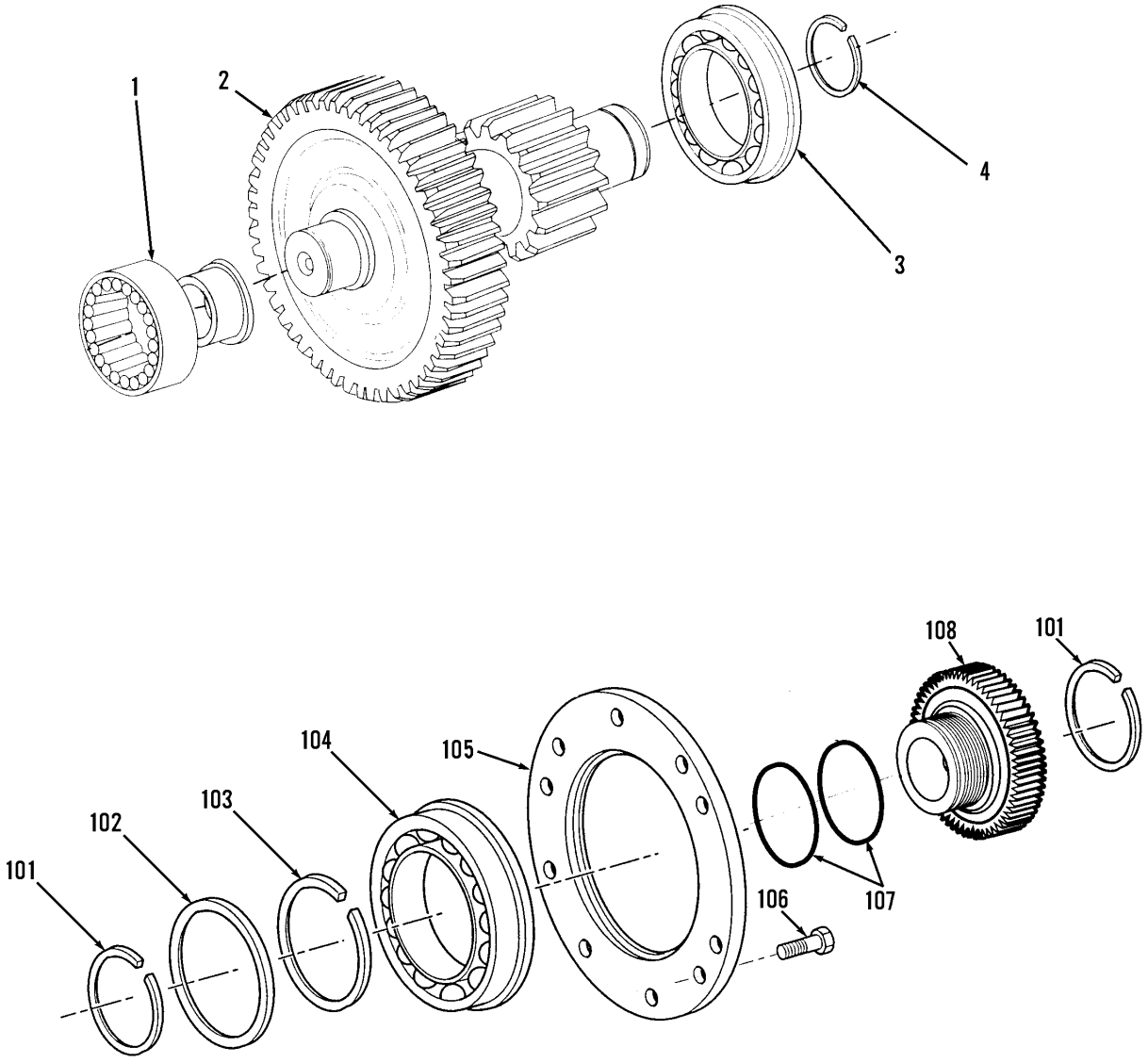
**Figure 5-11 Transmission - Range Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83384116 | 2 | BOLT | |
| 2 | 83384115 | 1 | SHIFT YOKE | |
| 3 | 86984289 | 1 | GASKET | |
| 4 | 86984290 | 1 | CYLINDER | |
| 5 | 83071260 | 8 | CAPSCREW | |
| 6 | 80984370 | 1 | O-RING | |
| 7 | 80384032 | 1 | YOKE BAR | |
| 8 | 86984291 | 1 | PISTON | |
| 9 | 80984371 | 1 | O-RING | |
| 10 | 80984372 | 1 | O-RING | |
| 11 | 80984373 | 1 | NUT | |
| 12 | 80384033 | 1 | GASKET | |
| 13 | 86984292 | 1 | CYLINDER COVER | |
| | 80384351 | 1 | GASKET KIT, (includes items 3 & 12 & designated items on Figures 5-5, 5-6, 5-10 & 5-13) | |
| | 80384349 | 1 | RANGE CYLINDER KIT, (includes items 3, 4, 6 & 8 thru 12) | |
| | 86984288 | 1 | O-RING KIT, (includes items 6, 9, 10, 11 & 12) | |

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**Figure 5-12 Transmission - Auxiliary Countershaft & Auxiliary Drive Gear**



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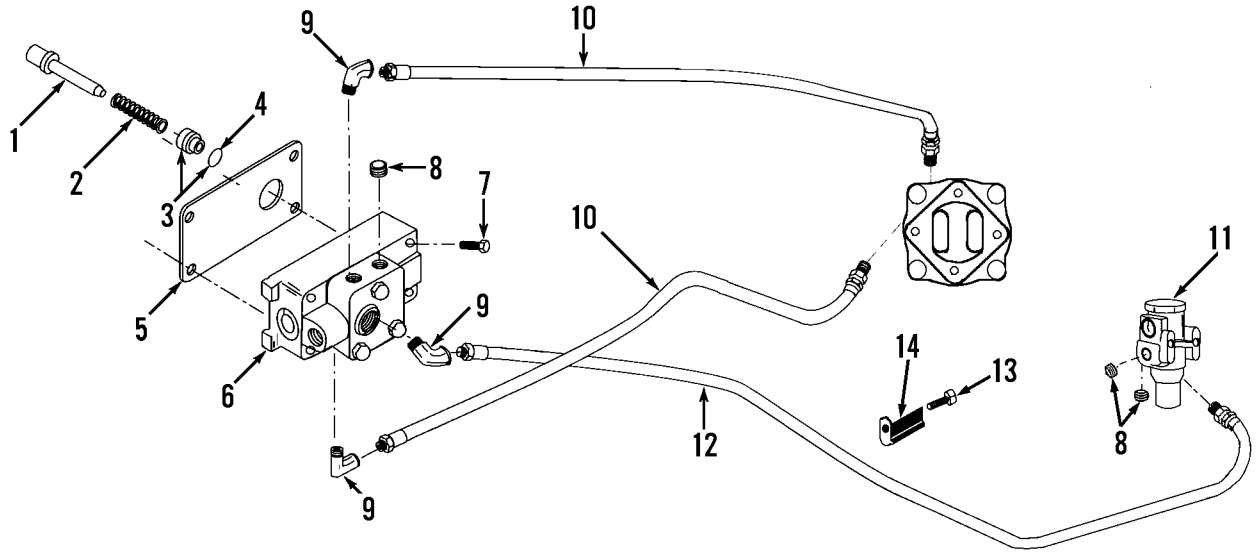
**Figure 5-12 Transmission - Auxiliary Countershaft & Auxiliary Drive Gear**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 83384100 | 2 | BEARING | |
| 2 | 80384034 | 2 | COUNTERSHAFT ASSY | |
| 3 | 83074149 | 2 | BEARING | |
| 4 | 80384035 | 2 | SNAP RING | |
| 5 to 100 | Not Used | | | |
| 101 | 86984211 | 2 | SNAP RING | |
| 102 | 80984385 | 1 | SNAP RING RETAINER | |
| 103 | 86984212 | 1 | SNAP RING | |
| 104 | 80384036 | 1 | BEARING | |
| 105 | 86984213 | 1 | BEARING RETAINER | |
| 106 | 83684620 | 6 | CAPSCREW, 3/8-16X1 | |
| 107 | 86984214 | 2 | O-RING | |
| 108 | 80384037 | 1 | AUXILIARY DRIVE GEAR | |
| | 80384352 | 1 | BASIC REBUILD KIT, (includes items 1, 3, 4, 101, 104 & 107 & designated items on Figures 5-7, 5-8 & 5-9) | |
| | 80384353 | 1 | BASIC OVERHAUL KIT, (includes items 1, 3, 4.101, 104 & 107 & designated items on Figures 5-5, 5-7, 5-8 & 5-9) | |

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**Figure 5-13 Transmission - Slave Valve**



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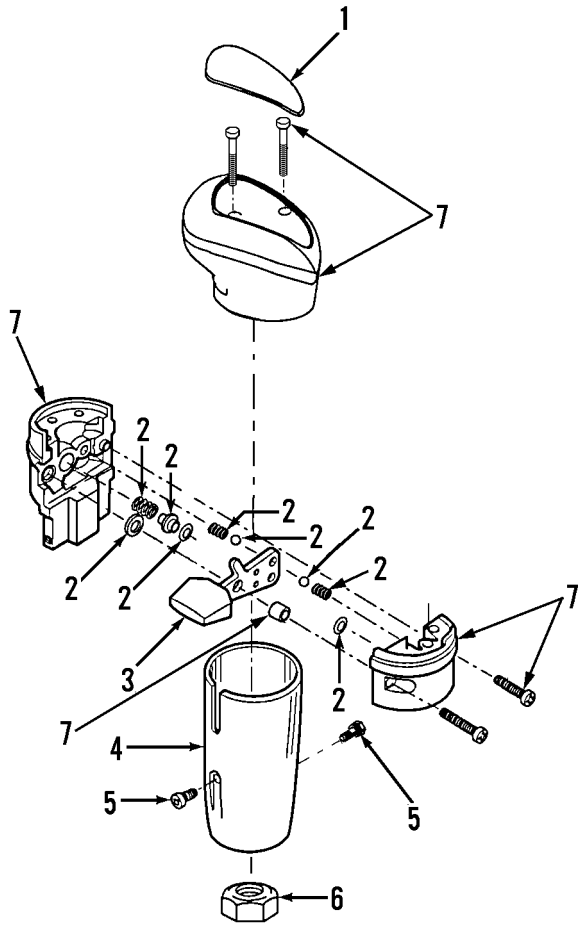
**Figure 5-13 Transmission - Slave Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80984388 | 1 | PIN | |
| 2 | 83684750 | 1 | SPRING | |
| 3 | 80984389 | 1 | SLEEVE KIT, (includes item 4) | |
| 4 | | 1 | O-RING | |
| 5 | 83684748 | 1 | GASKET | |
| 6 | 83684747 | 1 | SLAVE VALVE ASSY | |
| 7 | 80984390 | 4 | CAPSCREW, 1/4-20X1-3/4 | |
| 8 | 80984391 | 3 | PIPE PLUG | |
| 9 | 83684746 | 3 | ELBOW | |
| 10 | 83384065 | 2 | HOSE ASSY | |
| 11 | 80984395 | 1 | FILTER REGULATOR KIT, (includes item 8) | |
| 12 | 80384038 | 1 | HOSE ASSY | |
| 13 | 80984393 | 1 | CAPSCREW, 3/8-16X1-1/4 | |
| 14 | 83384070 | 1 | HOSE CLAMP | |
| | 80384351 | 1 | GASKET KIT, (includes item 5 & designated item on Figures 5-5, 5-6, 5-10 & 5-11) | |
| | 80384350 | 1 | VALVE REPLACEMENT KIT, (includes items 5, 6 & 7) | |

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**Figure 5-14 Master Shift Valve**



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**Figure 5-14 Master Shift Valve**

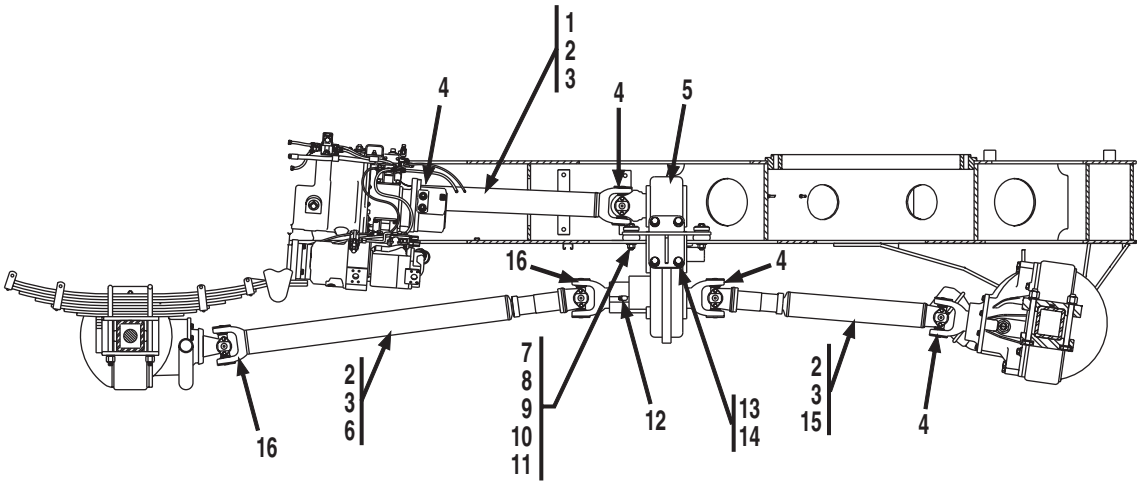
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384040 | 1 | ROADRANGER MASTER SHIFT VALVE, (includes all items except item 6) | |
| 1 | 80384039 | 1 | MEDALLION | |
| 2 | 86984298 | 1 | VALVE REPAIR KIT | |
| 3 | 86984300 | 1 | LEVER | |
| 4 | 86984302 | 3 | COVER | |
| 5 | 86984301 | 2 | MACHINE SCREW | |
| 6 | 86984303 | 1 | HEX NUT | |
| 7 | | 1 | VALVE BODY ASSY | |

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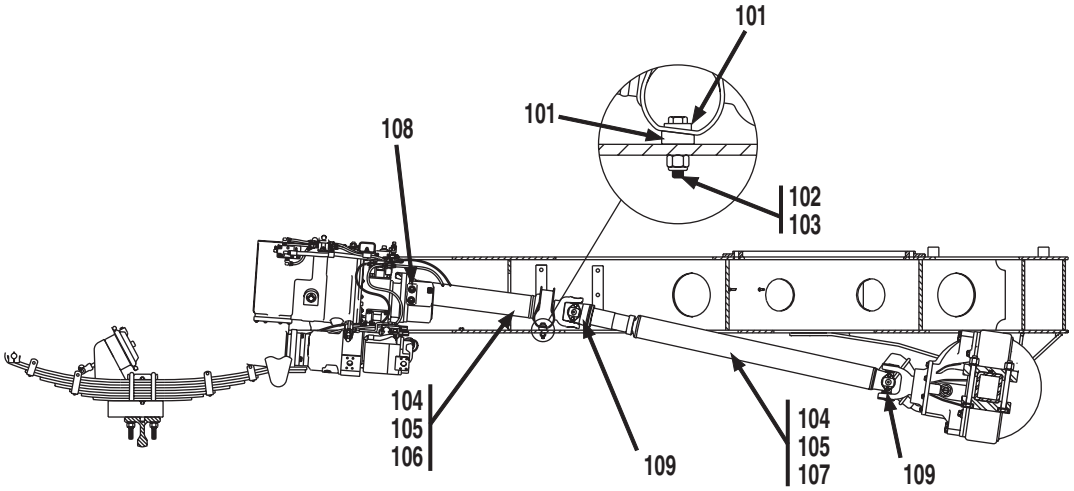


**Figure 5-15 Propeller Shaft**

**4X4**




**4X2**



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**Figure 5-15 Propeller Shaft**

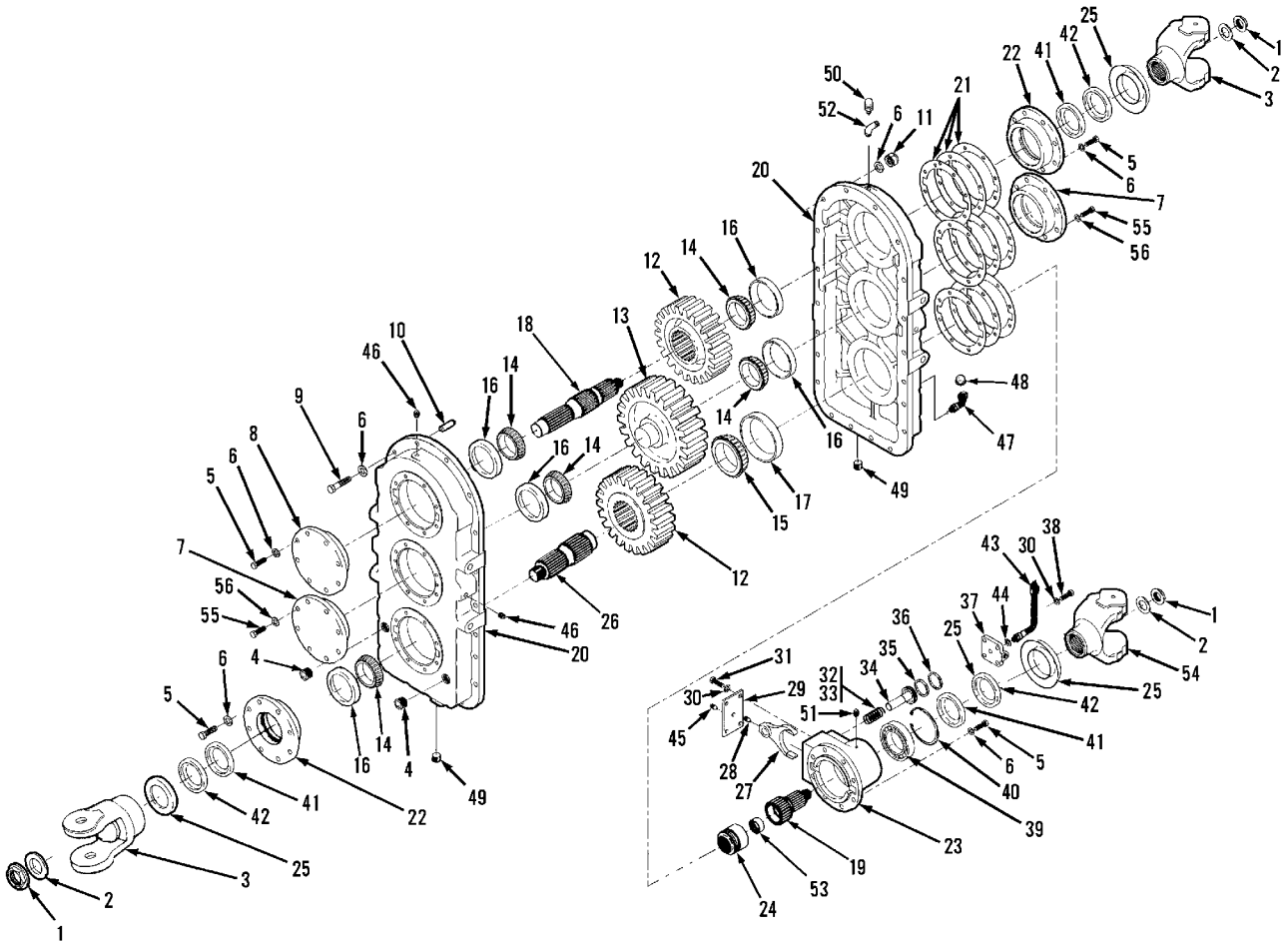
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80383379 | 1 | PROPELLER SHAFT ASSY | |
| 2 | 80483033 | 24 | BEARING STRAP SCREW | |
| 3 | 80483032 | 12 | BEARING STRAP | |
| 4 | 80384374 | 4 | UNIVERSAL JOINT KIT | |
| 5 | | Ref | TRANSFER CASE, (see Figure 5-16 for details) | |
| 6 | 80383386 | 1 | PROPELLER SHAFT ASSY | |
| 7 | 88201105 | 4 | HEX HD CAPSCREW, 5/8-11X4, GR5 | |
| 8 | 24601563 | 4 | FLEX LOCK NUT, 5/8-11 | |
| 9 | 88561113 | 4 | FLAT WASHER, 5/8 | |
| 10 | 86881287 | 4 | WASHER, 3/4 | |
| 11 | 86881227 | 4 | SHOCK MOUNT | |
| 12 | 80383153 | 1 | ELBOW, 90 DEGREES, (includes o-ring) | |
| 13 | 83201061 | 8 | HEX HD CAPSCREW, 3/4-10X1-3/4, GR8 | |
| 14 | 88551016 | 8 | LOCKWASHER, 3/4 | |
| 15 | 80383380 | 1 | PROPELLER SHAFT ASSY | |
| 16 | 80384375 | 2 | UNIVERSAL JOINT KIT | |
| 17 to 100 | Not Used | | | |
| 101 | 88561202 | 2 | BEVEL WASHER, 1/2 | |
| 102 | 88201071 | 2 | HEX HD CAPSCREW, 1/2-13X2-1/2, GR5 | |
| 103 | 88521308 | 2 | HEX LOCKNUT, 1/2-13 | |
| 104 | 80483033 | 12 | BEARING STRAP SCREW | |
| 105 | 80483032 | 6 | BEARING STRAP | |
| 106 | 80383393 | 1 | PROPELLER SHAFT ASSY | |
| 107 | 80383394 | 1 | PROPELLER SHAFT ASSY | |
| 108 | 83091145 | 1 | UNIVERSAL JOINT KIT | |
| 109 | 80384374 | 2 | UNIVERSAL JOINT KIT | |

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**Figure 5-16 Transfer Case**

**4X4**



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**Figure 5-16 Transfer Case**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383382 | 1 | TRANSFER CASE ASSY, (includes all items) | |
| 1 | 80384229 | 3 | LOK-NUT | |
| 2 | 80384230 | 3 | FLAT WASHER | |
| 3 | 80384356 | 2 | YOKE | |
| 4 | 80384232 | 2 | PLUG | |
| 5 | 80384233 | 48 | CAPSCREW | |
| 6 | 80384234 | 68 | WASHER | |
| 7 | 80384235 | 2 | BEARING CAGE | |
| 8 | 80384236 | 1 | BEARING CAGE | |
| 9 | 80384237 | 20 | CAPSCREW | |
| 10 | 80384238 | 2 | DOWEL | |
| 11 | 80384239 | 20 | LOCKNUT | |
| 12 | 80384240 | 2 | DRIVEN GEAR | |
| 13 | 80384241 | 1 | IDLER GEAR | |
| 14 | 80384242 | 5 | BEARING CONE | |
| 15 | 80384243 | 1 | BEARING CONE | |
| 16 | 80384244 | 5 | BEARING CUP | |
| 17 | 80384245 | 1 | BEARING CUP | |
| 18 | 80384246 | 1 | INPUT SHAFT | |
| 19 | 80384247 | 1 | OUTPUT SHAFT | |
| 20 | 80384248 | 1 | TRANSFER-CASE | |
| 21 | 80384249 | AR | SHIM, (.003) | |
| | 80384250 | AR | SHIM, (.005) | |
| | 80384251 | AR | SHIM, (.010) | |
| 22 | 80384252 | 2 | BEARING CAGE | |
| 23 | 80384358 | 1 | BEARING CAGE | |
| 24 | 80384254 | 1 | CLUTCH COLLAR | |
| 25 | 80384255 | 3 | DEFLECTOR | |
| 26 | 80384256 | 1 | SHAFT | |
| 27 | 80384257 | 1 | SHIFT FORK | |
| 28 | 80384258 | 1 | SET SCREW | |
| 29 | 80384259 | 1 | COVER PLATE | |
| 30 | 80384260 | 8 | HARDENED WASHER | |
| 31 | 80384261 | 4 | CAPSCREW | |
| 32 | 80384262 | 1 | SPRING | |
| 33 | 80384263 | 1 | SPRING | |
| 34 | 80384264 | 1 | PISTON | |
| 35 | 80384265 | 1 | QUAD-RING | |
| 36 | 80384266 | 1 | QUAD-RING | |
| 37 | 80384267 | 1 | COVER PLATE | |
| 38 | 80384268 | 1 | CAPSCREW | |
| 39 | 80384269 | 1 | BALL BEARING | |
| 40 | 80384270 | 1 | SNAP-RING | |
| 41 | 80384271 | 3 | OIL SEAL ASSY | |
| 42 | 80384272 | 3 | OIL SEAL ASSY | |
| 43 | 80384273 | 1 | SWITCH ASSY | |
| 44 | 80384274 | 1 | WASHER | |
| 45 | 80384275 | 1 | PLUG | |
| 46 | 80384361 | 1 | PLUG | |

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**Figure 5-16 Transfer Case (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 47 | 80384277 | 1 | ELBOW | |
| 48 | 80384278 | 1 | NIPPLE | |
| 49 | 80384362 | 2 | DRAIN PLUG | |
| 50 | 83071503 | 1 | BREATHER | |
| 51 | 80384281 | 1 | PLUG | |
| 52 | 80384364 | 1 | ELBOW | |
| 53 | 80384283 | 1 | NEEDLE BEARING | |
| 54 | 80384357 | 1 | YOKE | |
| 55 | 80384359 | 8 | CAPSCREW | |
| 56 | 80384360 | 8 | WASHER | |

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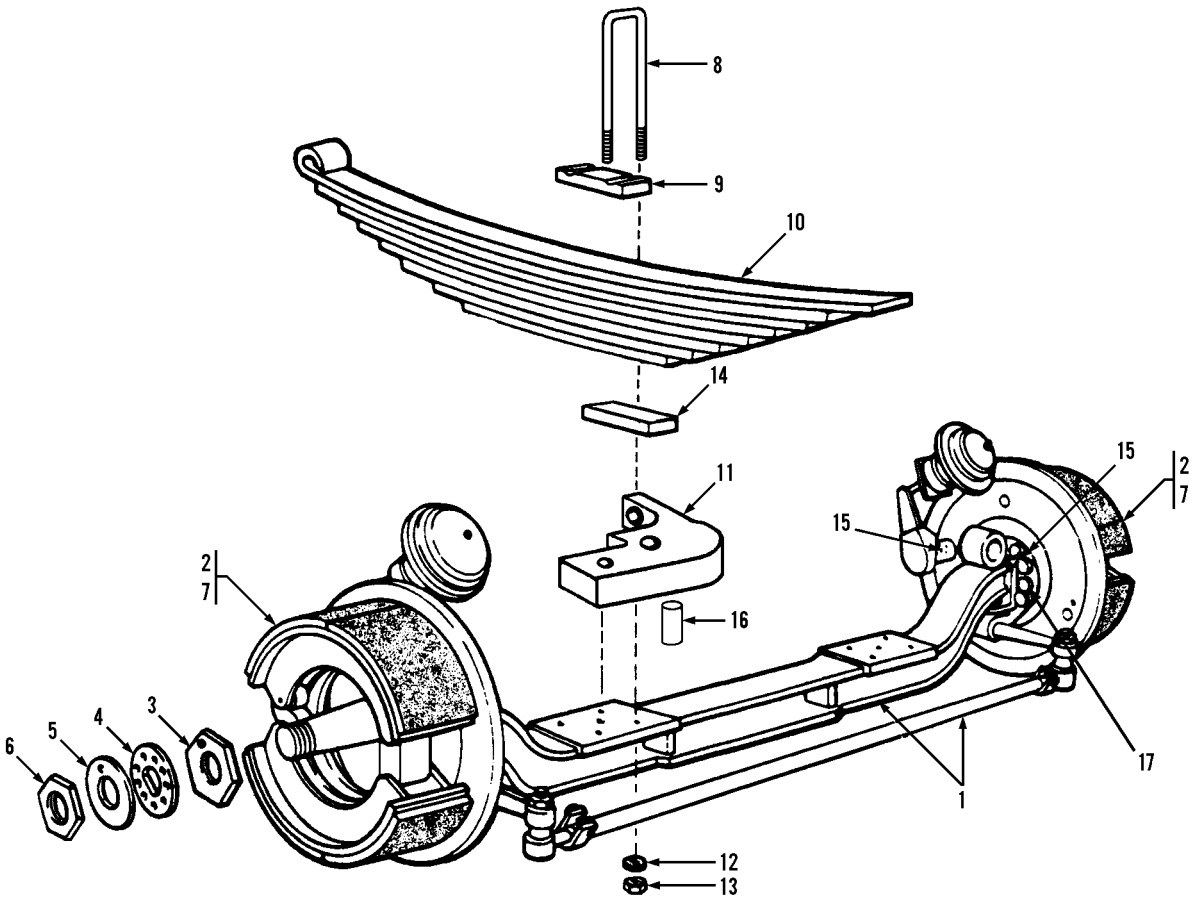
**Figure 5-16 Transfer Case (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 5-17 Front Axle - Axle Assembly, 4X2**



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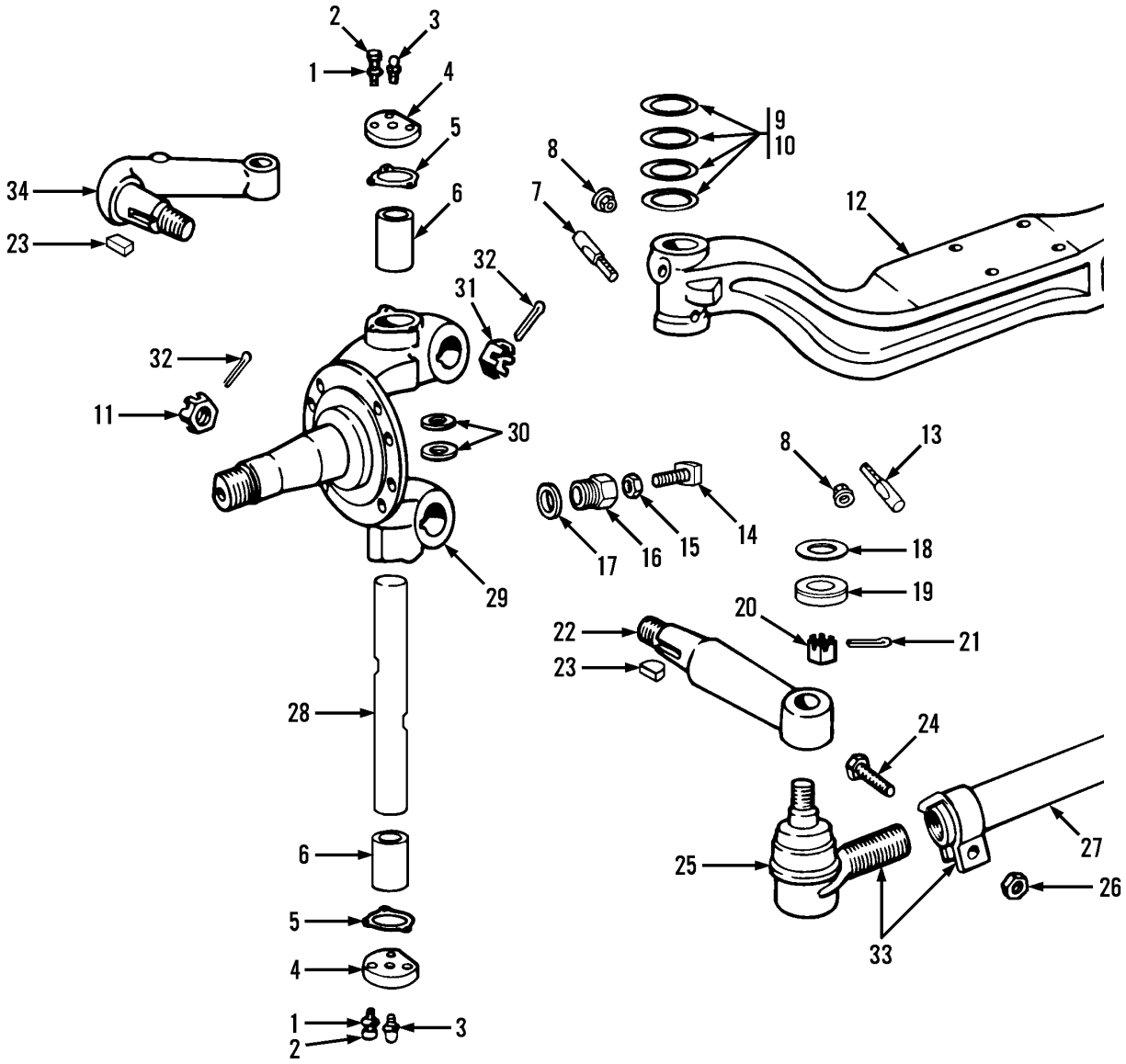
**Figure 5-17 Front Axle - Axle Assembly, 4X2**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385130 | 1 | FRONT AXLE ASSY, (w/disc wheels), (includes all items) | |
| | 80383392 | 1 | FRONT AXLE, (includes items 1 thru 6) | |
| 1 | | Ref | STEERING KNUCKLE & AXLE BEAM, (see Figure 5-18 for details) | |
| 2 | | Ref | BRAKE SHOE, (see Figure 5-19 for details) | |
| 3 | 83481437 | 2 | INNER BEARING NUT | |
| 4 | 83071586 | 2 | LOCKWASHER | |
| 5 | 83071587 | 2 | FLAT WASHER | |
| 6 | 83071585 | 2 | OUTER BEARING NUT | |
| 7 | | Ref | WHEEL & DRUM, (see Figure 5-20 for details) | |
| 8 | 86681356 | 4 | SPRING CLIP | |
| 9 | 86683039 | 2 | CLIP SEAT | |
| 10 | | Ref | SPRING ASSY, (see Figure 5-27 for details) | |
| 11 | 80381020 | 2 | SPRING SEAT | |
| 12 | 86681572 | 8 | FLAT WASHER | |
| 13 | 77383580 | 8 | HEX HIGH NUT, (lubricate & torque to 350-365 lb-ft) | |
| 14 | 80381435 | 2 | AXLE SPACER | |
| 15 | 88671018 | 6 | LUBE FITTING, 45 DEGREES, 1/8 | |
| 16 | 86981645 | 4 | DOWEL PIN | |
| 17 | 80481143 | 1 | AXLE STOP SPACER | |
| | 80684202 | 1 | WHEEL BEARING NUT KIT, (includes items 3 thru 6) | |

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**Figure 5-18 Front Axle - Steering Components, 4X2**



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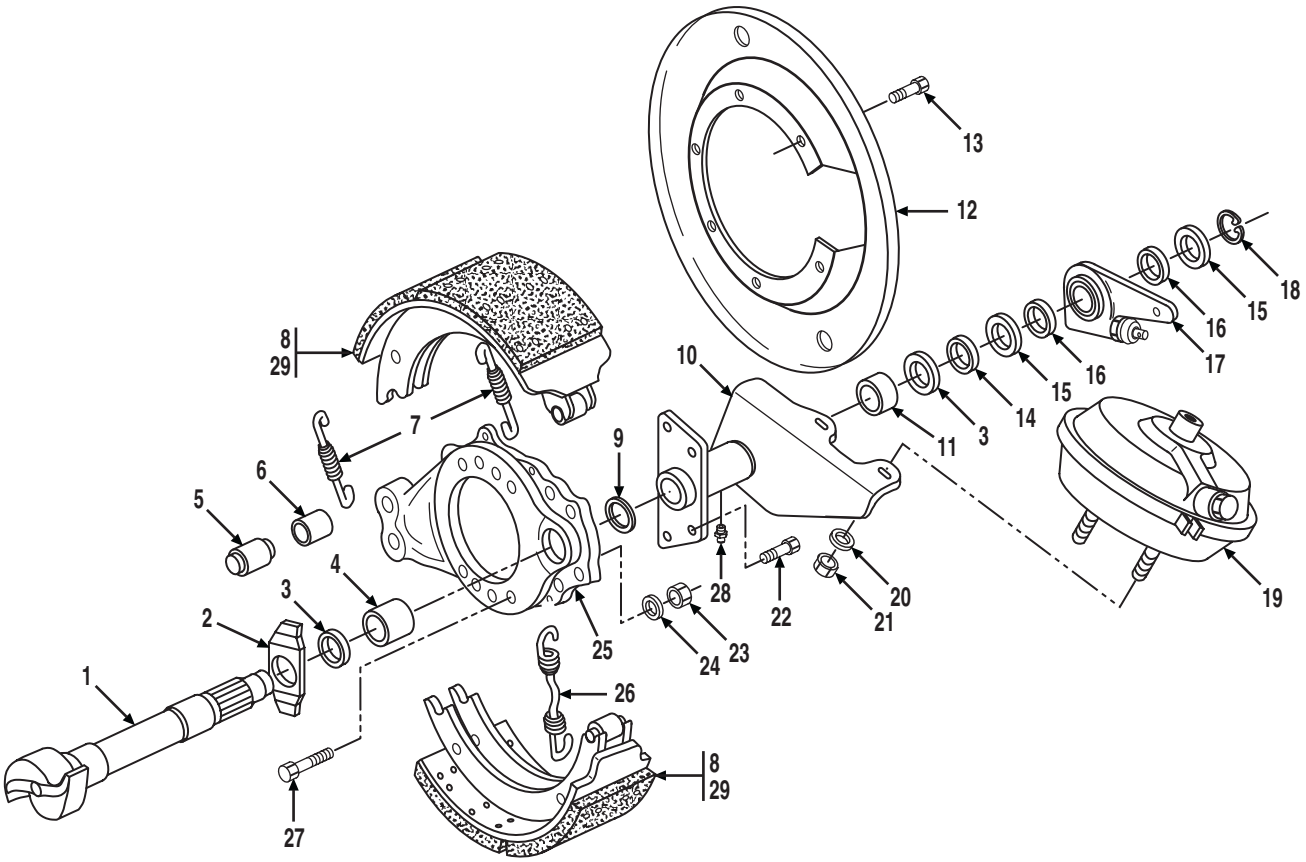
**Figure 5-18 Front Axle - Steering Components, 4X2**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 77374013 | 6 | FLAT WASHER | |
| 2 | 77374014 | 6 | CAPSCREW | |
| 3 | 83684981 | 2 | GREASE FITTING | |
| 4 | 80384103 | 2 | CAP | |
| 5 | 86881418 | 2 | GASKET | |
| 6 | 83684369 | 1 | BUSHING | |
| 7 | 77374015 | 1 | KEY, (upper) | |
| 8 | 86881425 | 2 | NUT | |
| 9 | 86881428 | 1 | SHIM | |
| | 86881427 | 1 | SHIM | |
| 10 | 77374016 | 2 | SHIM | |
| 11 | 83091206 | 1 | NUT | |
| 12 | 80384104 | 1 | AXLE CENTER | |
| 13 | 86881431 | 1 | KEY, (lower) | |
| 14 | 77374019 | 1 | STOP SCREW | |
| 15 | 77374020 | 1 | NUT | |
| 16 | 77374021 | 1 | ADAPTER | |
| 17 | 77374022 | 1 | HARDENED WASHER | |
| 18 | 77374023 | 1 | THRUST BEARING | |
| 19 | 77374024 | 1 | OIL SEAL ASSY | |
| 20 | | 1 | NUT | |
| 21 | 83073948 | 1 | COTTER | |
| 22 | 77374025 | 1 | TIE ROD ARM, L.H. | |
| | 77374026 | 1 | TIE ROD ARM, R.H. | |
| 23 | 77374027 | 2 | KEY | |
| 24 | | 1 | CAPSCREW | |
| 25 | 86881411 | 1 | TIE ROD END ASSY, L.H., (includes item 20) | |
| | 86881413 | 1 | TIE ROD END ASSY, R.H., (includes item 20) | |
| 26 | | 1 | NUT | |
| 27 | 77374028 | 1 | TIE ROD & CLAMP ASSY, (includes items 24 & 26) | |
| 28 | 80384105 | 1 | KNUCKLE PIN | |
| 29 | 80684200 | 1 | STEERING KNUCKLE ASSY, L.H., (includes item 6) | |
| | 80684199 | 1 | STEERING KNUCKLE ASSY, R.H., (includes item 6) | |
| 30 | 86881426 | 2 | OIL SEAL ASSY | |
| 31 | 83081132 | 1 | NUT | |
| 32 | 86984034 | 2 | COTTER | |
| 33 | 77374032 | 1 | TIE ROD & END ASSY, (includes items 25 & 27) | |
| 34 | 80384106 | 1 | STEERING ARM, L.H. | |
| | 80384107 | | STEERING ARM, R.H. | |
| | 80384400 | 1 | KING PIN KIT, (includes items 1, 2, 4, 5, 6, 7, 9, 13, 18, 19, 28 & 30) | |
| | | | **QUANTITIES SHOWN ARE FOR ONE WHEEL END ONLY.** | |

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**Figure 5-19 Front Axle - Service Brakes, 4X2**



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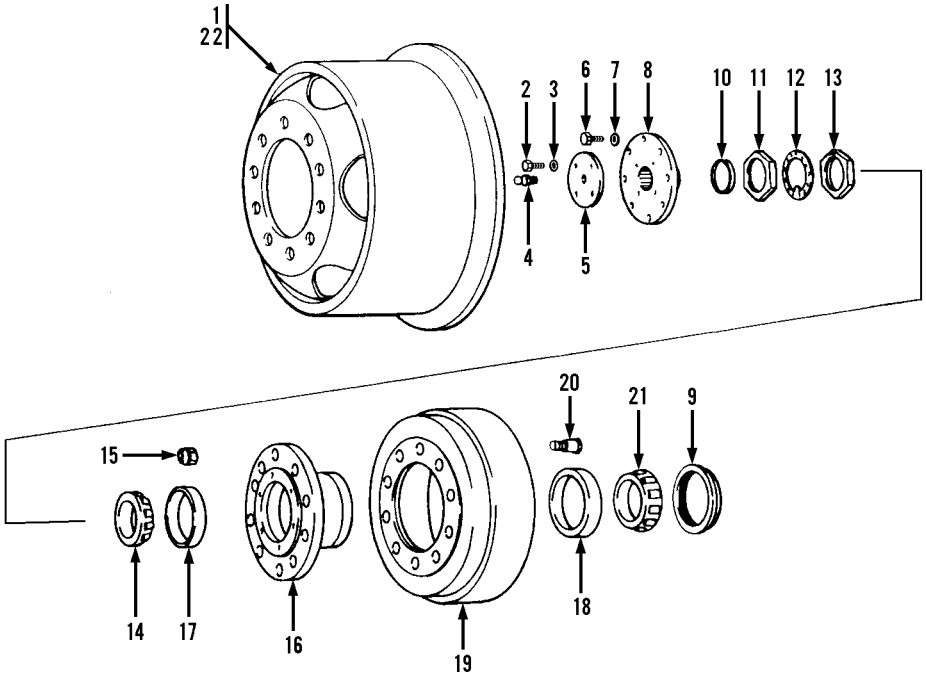
**Figure 5-19 Front Axle - Service Brakes, 4X2**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384108 | 1 | BRAKE, L.H., (includes all items except items 17, 19, 20, 21, 23, 24 & 27) | |
| | 80384109 | 1 | BRAKE, R.H., (includes all items except items 17, 19, 20, 21, 23, 24 & 27) | |
| 1 | 80384110 | 1 | CAMSHAFT, L.H. | |
| | 80384111 | 1 | CAMSHAFT, R.H. | |
| 2 | 80684171 | 1 | SPECIAL WASHER | |
| 3 | 85403197 | 2 | SEAL ASSY | |
| 4 | 80684170 | 1 | CAM BUSHING | |
| 5 | 83683822 | 2 | BRAKE SHOE ANCHOR PIN | |
| 6 | 83683832 | 2 | BUSHING | |
| 7 | 80684088 | 2 | SPRING | |
| 8 | 77374045 | 2 | BRAKE SHOE LINING & ROLLER ASSY, (includes item 29) | |
| 9 | 85403198 | 1 | O-RING | |
| 10 | 80384112 | 1 | BRAKE CHAMBER BRACKET ASSY, (includes item 11) | |
| | 80384113 | 1 | BRAKE CHAMBER BRACKET ASSY, (includes item 11) | |
| 11 | 83071694 | 1 | CAM BUSHING | |
| 12 | 83684371 | 1 | DUST SHIELD | |
| 13 | 80684082 | 6 | CAPSCREW | |
| 14 | 85403196 | 1 | FLAT WASHER | |
| 15 | 80684164 | 2 | FLAT WASHER | |
| 16 | 80684165 | 2 | FLAT WASHER | |
| 17 | 80684166 | 1 | AUTO SLACK ADJUSTER, L.H. | |
| | 80684167 | 1 | AUTO SLACK ADJUSTER, R.H. | |
| 18 | 86984005 | 1 | SNAP RING | |
| 19 | 77374008 | 1 | BRAKE CHAMBER ASSY | |
| 20 | 83684545 | 2 | FLAT WASHER | |
| 21 | 77374010 | 2 | NUT | |
| 22 | 80684082 | 4 | CAPSCREW | |
| 23 | 83481440 | 7 | LOCKNUT | |
| 24 | 83683836 | 14 | HARDENED WASHER | |
| 25 | 80384114 | 1 | BRAKE SPIDER ASSY, L.H., (includes items 3, 4, 6 & 9) | |
| | 80384115 | 1 | BRAKE SPIDER ASSY, R.H., (includes items 3, 4, 6 & 9) | |
| 26 | 86983442 | 1 | RETURN SPRING | |
| 27 | 77374012 | 7 | CAPSCREW | |
| 28 | 77374038 | 1 | GREASE FITTING | |
| 29 | 77374050 | 1 | BRAKE SHOE ASSY | |
| | 77374043 | 1 | LINED SHOES & HARDWARE KIT, (includes items 5, 6, 7 & 26) | |
| | 77374044 | 1 | HARDWARE KIT, (includes items 5, 6, 7 & 26) | |
| | | | **QUANTITIES SHOWN ARE FOR ONE WHEEL END ONLY.** | |

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**Figure 5-20 Front Axle - Disc Wheels & Rims, 4X2**



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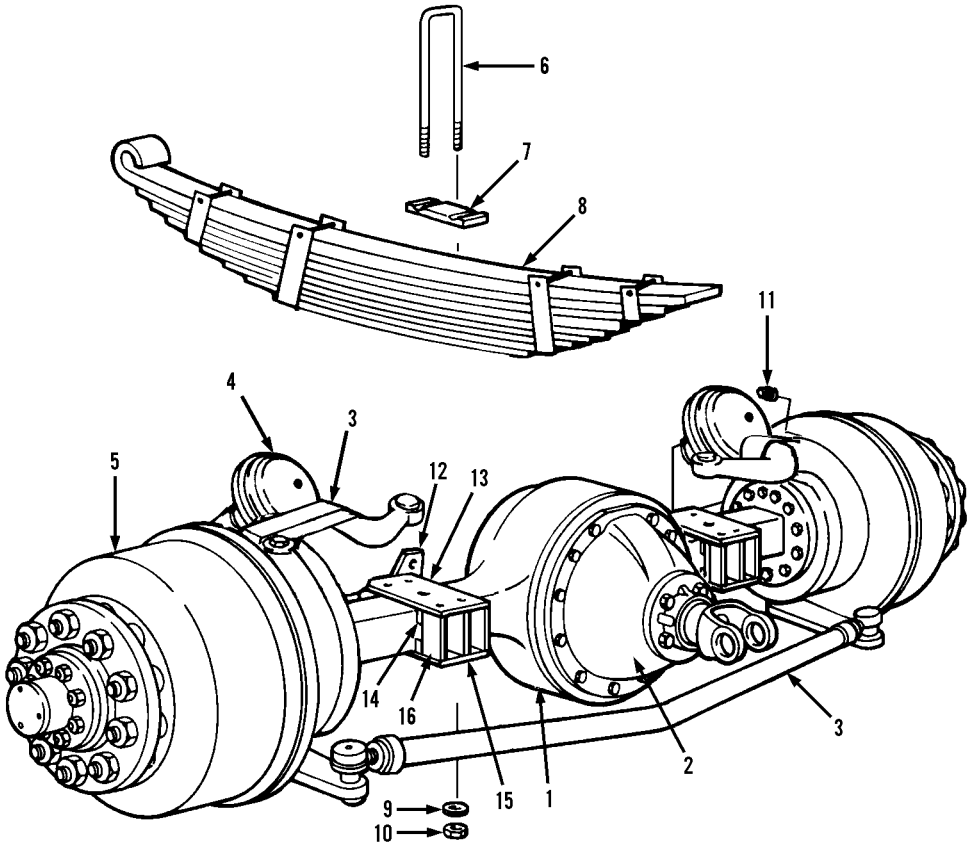
**Figure 5-20 Front Axle - Disc Wheels & Rims, 4X2**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384369 | 1 | HUB & DRUM ASSY, (includes items 9, 15 thru 21) | |
| | 80385123 | 1 | TIRE/WHEEL ASSY, (includes item 1 & 22), (standard) | |
| | 80385127 | 1 | TIRE/WHEEL ASSY, (includes item 1 & 22), (optional) | |
| 1 | 80483024 | 1 | RIM, 22.5X11.75, (standard) | |
| | 80383390 | 1 | RIM, 22.5X13, (optional) | |
| | 80483024 | 1 | RIM, **(S/N 021017485 only)** | |
| 2 | 80684092 | 4 | HEX HD CAPSCREW | |
| 3 | 80684093 | 4 | HARDENED WASHER | |
| 4 | 77374038 | 1 | LUBE FITTING | |
| 5 | 83684982 | 1 | CAP | |
| 6 | 80984109 | 8 | HEX HD CAPSCREW | |
| 7 | 83081182 | 8 | FLAT WASHER | |
| 8 | 83684983 | 1 | DRIVE FLANGE ASSY, (includes item 10) | |
| 9 | 80684099 | 1 | OIL SEAL | |
| 10 | 83684985 | 1 | FELT RETAINER | |
| 11 | 83684986 | 1 | OUTER WHEEL NUT | |
| 12 | 83684987 | 1 | LOCKWASHER | |
| 13 | 83684988 | 1 | INNER WHEEL NUT | |
| 14 | 86984028 | 1 | OUTER BEARING CONE | |
| 15 | 80484008 | 10 | NUT ASSY | |
| 16 | 80384370 | 1 | HUB & CUP ASSY, (includes items 17 & 18) | |
| 17 | | 1 | OUTER BEARING CUP | |
| 18 | | 1 | INNER BEARING CUP | |
| 19 | 80384372 | 1 | BRAKE DRUM | |
| 20 | 80384371 | 10 | WHEEL STUD | |
| 21 | 77104445 | 1 | INNER BEARING CONE | |
| 22 | 86883384 | 1 | TIRE, 15:00X22.25, (standard), (not illustrated) | |
| | 77383010 | 1 | TIRE, 18:00X22.25, (optional), (not illustrated) | |

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**Figure 5-21 Front Axle - Axle Assembly, 4X4**



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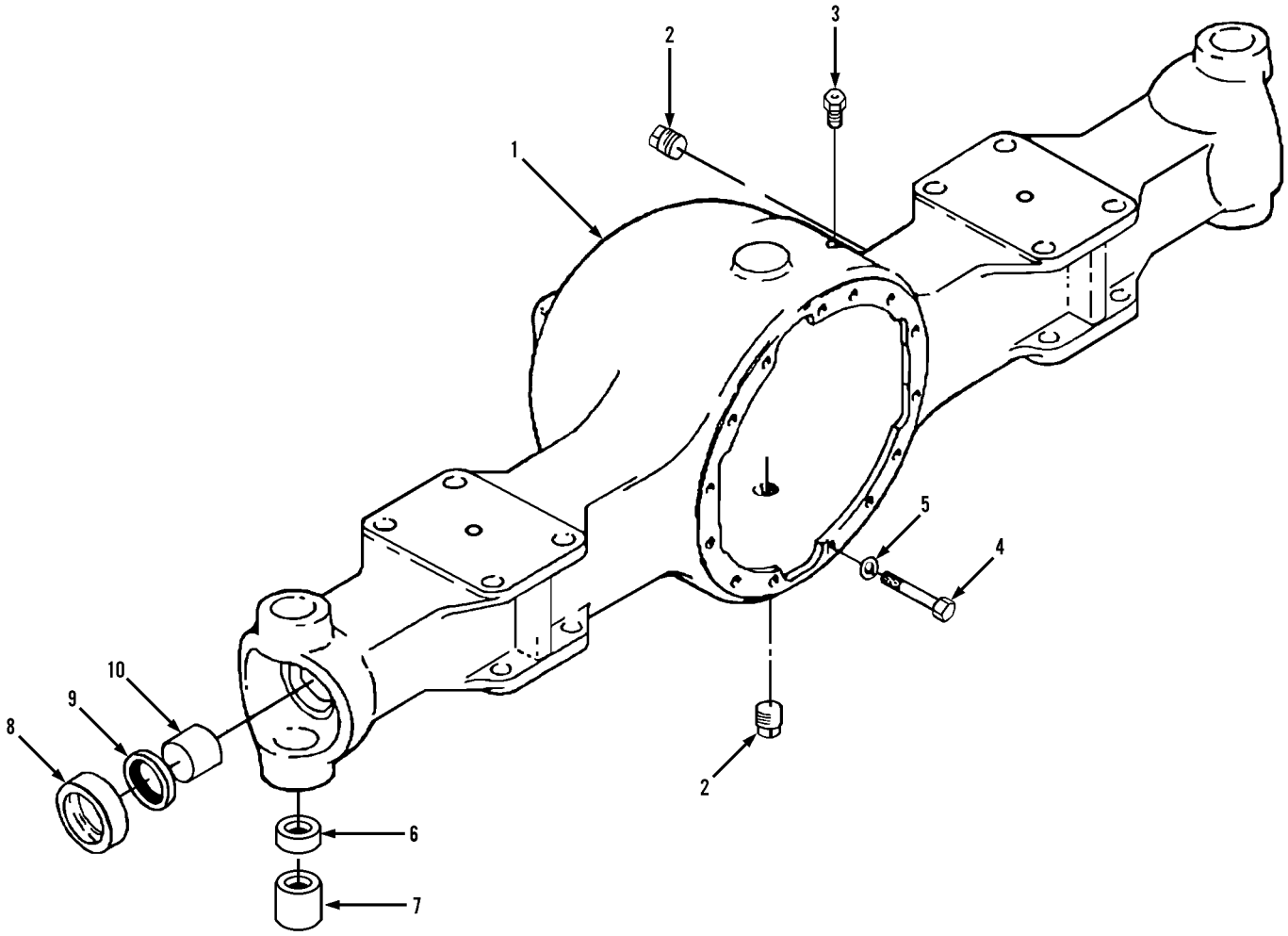
**Figure 5-21 Front Axle - Axle Assembly, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385116 | 1 | FRONT DRIVE AXLE ASSY, (includes all items), (7.17 ratio) | |
| | 80386105 | 1 | FRONT DRIVE WELDMENT, (includes all items except items 6 thru 11) | |
| | 80383377 | 1 | FRONT DRIVE, (includes items 1 thru 5) | |
| 1 | | Ref | HOUSING ASSY, (see Figure 5-22 for details) | |
| 2 | | Ref | DIFFERENTIAL CARRIER ASSY, (see Figure 5-23 for details) | |
| 3 | | Ref | STEERING COMPONENTS, (see Figure 5-24 for details) | |
| 4 | | Ref | FRONT SERVICE BRAKES, (see Figure 5-25 for details) | |
| 5 | | 2 | FRONT DISC WHEELS & RIMS, (see Figure 5-26 for details) | |
| 6 | 80383272 | 4 | U-BOLT | |
| 7 | 86881336 | 2 | CLIP SEAT | |
| 8 | | Ref | SPRING ASSY, (see Figure 5-27 for details) | |
| 9 | 86681572 | 8 | FLAT WASHER | |
| 10 | 77383580 | 8 | HEX HIGH NUT, 3/4-16, (lubricate & torque to 350-365 lb-ft) | |
| 11 | 88711252 | 2 | SQUARE HD PIPE PLUG, 3/8 | |
| 12 | 80381018 | 2 | CYLINDER SUPPORT | |
| 13 | 77381636 | 2 | TOP PLATE | |
| 14 | 77381637 | 8 | BAR | |
| 15 | 77381635 | 2 | BOTTOM PLATE | |
| 16 | 83681863 | 12 | SPACER BAR | |

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**Figure 5-22 Front Axle - Housing, 4X4**



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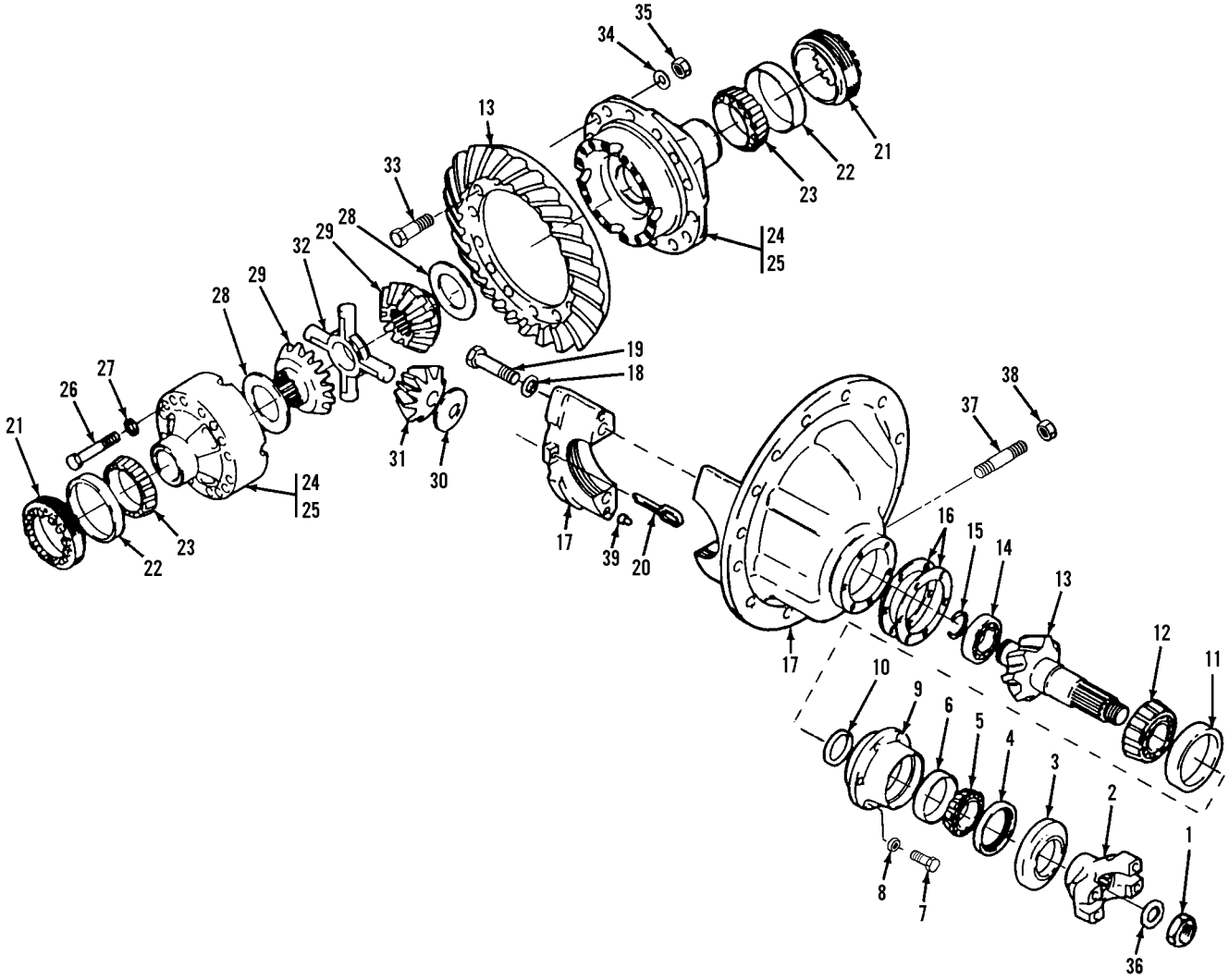
**Figure 5-22 Front Axle - Housing, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80384141 | 1 | HOUSING, (includes items 8 thru 10) | |
| 2 | 83684055 | 2 | MAGNETIC PLUG | |
| 3 | 83071503 | 1 | BREATHER | |
| 4 | 80984109 | 8 | HEX HD CAPSCREW, (short) | |
| | 80684021 | 4 | HEX HD CAPSCREW, (short) | |
| 5 | 83081182 | 12 | WASHER | |
| 6 | 83684939 | 4 | EXPANSION PLUG | |
| 7 | 80684023 | 4 | BUSHING | |
| 8 | 83684937 | 2 | SEAL ASSY | |
| 9 | 80684024 | 2 | THRUST WASHER | |
| 10 | 83684935 | 2 | BUSHING | |

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**Figure 5-23 Front Axle - Differential, 4X4**



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**Figure 5-23 Front Axle - Differential, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384368 | 1 | DIFFERENTIAL CARRIER, (includes all items) | |
| 1 | 80984185 | 1 | DRIVE PINION NUT | |
| 2 | 80384366 | 1 | INPUT YOKE ASSY, (includes item 3) | |
| 3 | 80384367 | 1 | DEFLECTOR | |
| 4 | 77384018 | 1 | OIL SEAL | |
| 5 | 80684028 | 1 | OUTER BEARING CONE | |
| 6 | | 1 | OUTER BEARING CUP | |
| 7 | 77384642 | 8 | HEX HD CAPSCREW | |
| 8 | 80684040 | 8 | FLAT WASHER | |
| 9 | 80684030 | 1 | PINION BEARING CAGE ASSY, (includes items 6 & 11) | |
| 10 | | AR | SPACER, (0.344 thick) | |
| | | AR | SPACER, (0.345 thick) | |
| | | AR | SPACER, (0.346 thick) | |
| | | AR | SPACER, (0.347 thick) | |
| | | AR | SPACER, (0.348 thick) | |
| | | AR | SPACER, (0.354 thick) | |
| | | AR | SPACER, (0.358 thick) | |
| | | AR | SPACER, (0.359 thick) | |
| | | AR | SPACER, (0.360 thick) | |
| | | AR | SPACER, (0.361 thick) | |
| | | AR | SPACER, (0.362 thick) | |
| 11 | | 1 | INNER BEARING CUP | |
| 12 | 77204028 | 1 | INNER BEARING CONE | |
| 13 | 80384133 | 1 | DRIVE GEAR & PINION SET, (7.17 ratio) | |
| 14 | 83483557 | 1 | BEARING | |
| 15 | 91024040 | 1 | SNAP RING | |
| 16 | | AR | SHIM, (.003 thick) | |
| | | AR | SHIM, (.005 thick) | |
| | | AR | SHIM, (.010 thick) | |
| | | AR | SHIM, (.020 thick) | |
| 17 | 80684036 | 1 | DIFFERENTIAL CARRIER & CAP ASSY, (includes items 18, 19 & 39) | |
| 18 | 83687009 | 4 | FLAT WASHER | |
| 19 | 83687010 | 4 | HEX HD CAPSCREW | |
| 20 | 91084100 | 2 | LOCK PIN | |
| 21 | 83687012 | 2 | BEARING ADJUSTER RING | |
| 22 | 77204041 | 2 | DIFFERENTIAL BEARING CUP | |
| 23 | 77204042 | 2 | DIFFERENTIAL CONE | |
| 24 | 80684037 | 1 | DIFFERENTIAL CASE & NEST ASSY, (includes items 25 thru 32) | |
| 25 | 80684038 | 1 | DIFFERENTIAL CASE ASSY, (includes items 26 & 27) | |
| 26 | 80684039 | 16 | HEX HD CAPSCREW | |
| 27 | 80684040 | 16 | FLAT WASHER | |
| 28 | 80684041 | 2 | THRUST WASHER | |
| 29 | 80684042 | 2 | SIDE GEAR | |
| 30 | 83483418 | 4 | PINION THRUST WASHER | |
| 31 | 80684043 | 4 | PINION GEAR | |
| 32 | 80684044 | 1 | DIFFERENTIAL SPIDER | |
| 33 | 80684045 | 12 | HEX HD CAPSCREW | |
| 34 | 83081182 | 12 | FLAT WASHER | |
| 35 | 80984021 | 12 | HEX NUT | |

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**Figure 5-23 Front Axle - Differential, 4X4 (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 36 | 86881678 | 1 | WASHER | |
| 37 | 80684047 | 1 | THRUST SCREW | |
| 38 | 80684048 | 1 | JAM NUT | |
| 39 | 80984183 | 4 | BALL | |
| | 83684999 | AR | PINION BEARING SPACER KIT, (includes item 10) | |
| | 83687001 | AR | DIFFERENTIAL CASE TO GEAR BOLT KIT, (includes 33, 34 & 35) | |
| | 80684026 | AR | DIFFERENTIAL KIT, (includes items 28 thru 32) | |
| | 77384849 | AR | HARDWARE KIT, (includes item 16) | |

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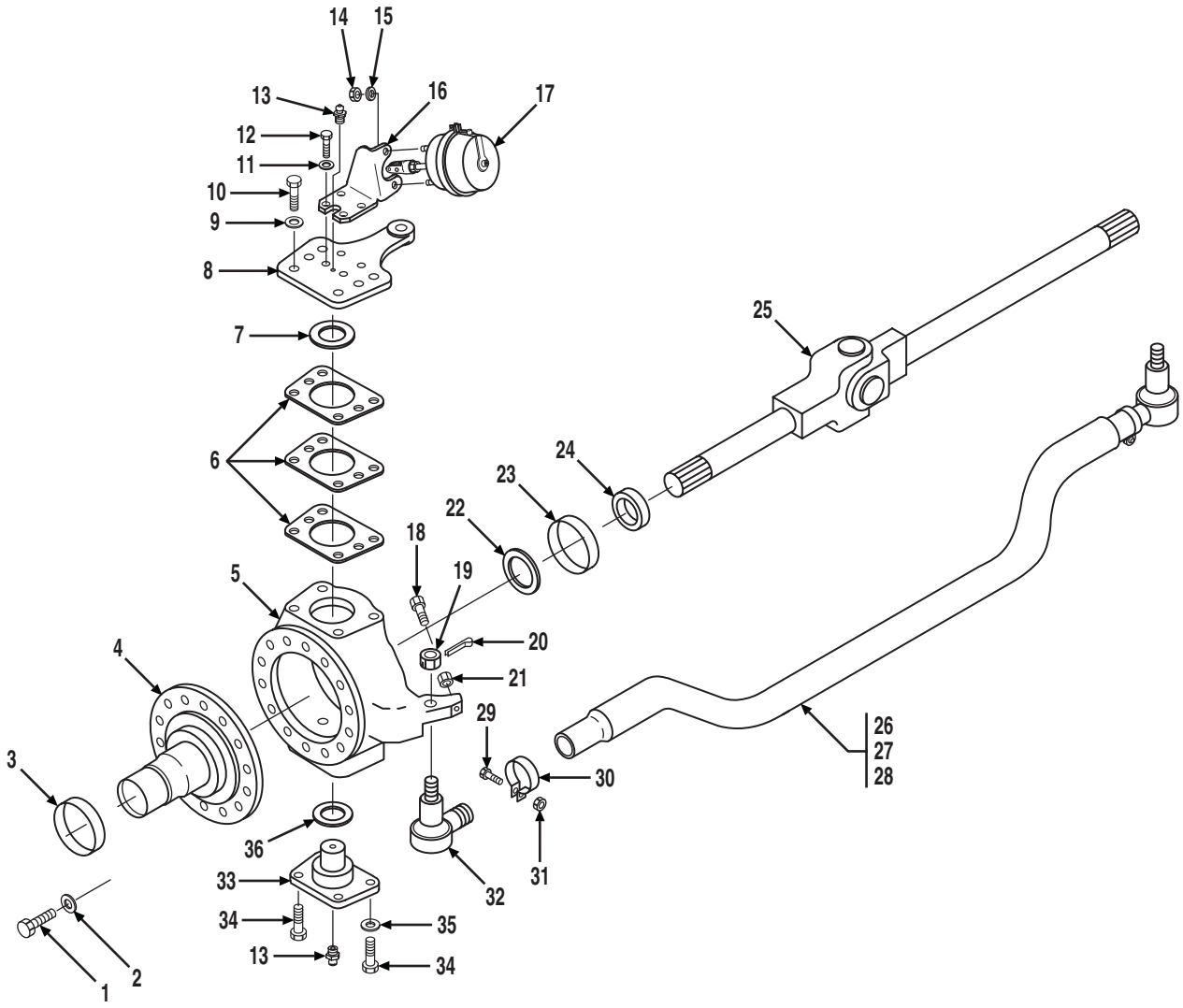
**Figure 5-23 Front Axle - Differential, 4X4 (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 5-24 Front Axle - Steering Components, 4X4**



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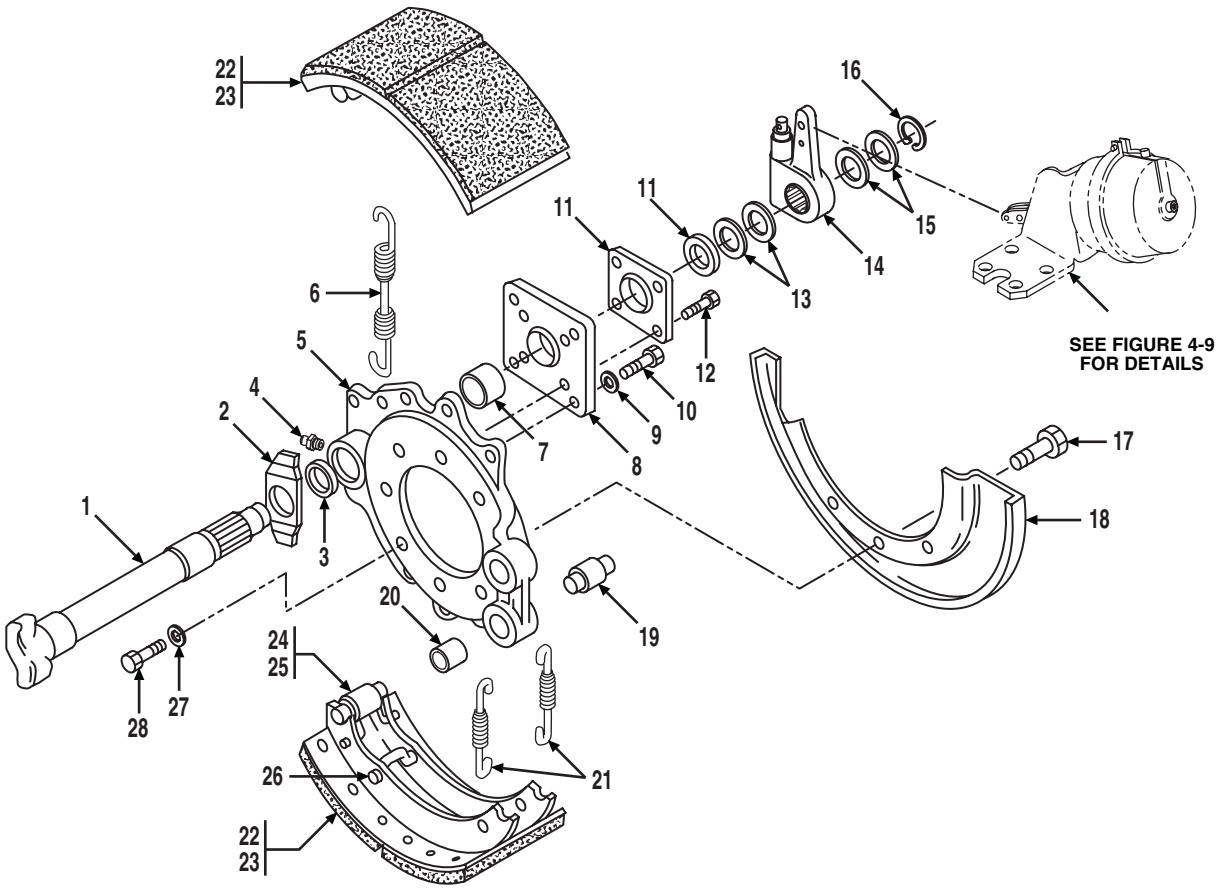
**Figure 5-24 Front Axle - Steering Components, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80984109 | 8 | HEX HD CAPSCREW, (short) | |
| | 80684021 | 4 | HEX HD CAPSCREW, (short) | |
| 2 | 83081182 | 12 | FLAT WASHER | |
| 3 | 77384624 | 1 | OIL SEAL SLEEVE, OUTER | |
| 4 | 80684050 | 1 | SPINDLE ASSY, (includes items 3, 22, 23 & 24) | |
| 5 | 80684051 | 1 | STEERING KNUCKLE, L.H. | |
| | 80684052 | 1 | STEERING KNUCKLE, R.H. | |
| 6 | 80684053 | AR | SHIM, (.003 thick) | |
| | 80684054 | AR | SHIM, (.005 thick) | |
| | 80684055 | AR | SHIM, (.010 thick) | |
| 7 | 83684953 | 2 | GREASE SEAL | |
| 8 | 80684058 | 1 | STEERING ARM, UPPER L.H. | |
| | 77384851 | 1 | STEERING KNUCKLE CAP, UPPER R.H. | |
| 9 | 86984059 | 12 | FLAT WASHER | |
| 10 | 80684056 | 12 | CAPSCREW | |
| 11 | 83081182 | 4 | FLAT WASHER | |
| 12 | 77384852 | 4 | CAPSCREW | |
| 13 | 77104365 | 2 | GREASE FITTING | |
| 14 | 83481440 | 2 | LOCKNUT | |
| 15 | 83081182 | 2 | FLAT WASHER | |
| 16 | 80684076 | 1 | BRAKE CHAMBER BRACKET, L.H. | |
| | 80684075 | 1 | BRAKE CHAMBER BRACKET, R.H. | |
| 17 | 80684078 | 1 | BRAKE CHAMBER | |
| 18 | 83684972 | 1 | SPECIAL SCREW | |
| 19 | | 1 | TIE ROD END NUT | |
| 20 | 83073458 | 1 | COTTER | |
| 21 | 83684973 | 1 | NUT | |
| 22 | 80684024 | 1 | THRUST WASHER | |
| 23 | 77384626 | 1 | OIL SEAL SLEEVE, INNER | |
| 24 | 83684963 | 1 | OIL SEAL ASSY | |
| 25 | 80684061 | 1 | AXLE SHAFT ASSY, L.H. | |
| | 80684062 | 1 | AXLE SHAFT ASSY, R.H. | |
| 26 | 83684966 | 1 | TIE ROD & END ASSY, (includes items 19 & 27 thru 32) | |
| 27 | | 1 | TIE ROD ASSY, (includes items 28 thru 31) | |
| 28 | | 1 | TIE ROD | |
| 29 | | 2 | HEX HD CAPSCREW | |
| 30 | | 2 | CLAMP | |
| 31 | | 2 | HEX NUT | |
| 32 | 80684065 | 1 | TIE ROD END, L.H. | |
| | 80684066 | 1 | TIE ROD END, R.H. | |
| 33 | 80684067 | 1 | STEERING KNUCKLE CAP, LOWER | |
| 34 | 80684060 | 4 | CAPSCREW | |
| 35 | 83081090 | 2 | FLAT WASHER | |
| 36 | 80984121 | 1 | THRUST BEARING | |
| | | | **QUANTITIES SHOWN ARE FOR ONE WHEEL END ONLY.** | |

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**Figure 5-25 Front Axle - Service Brake, 4X4**



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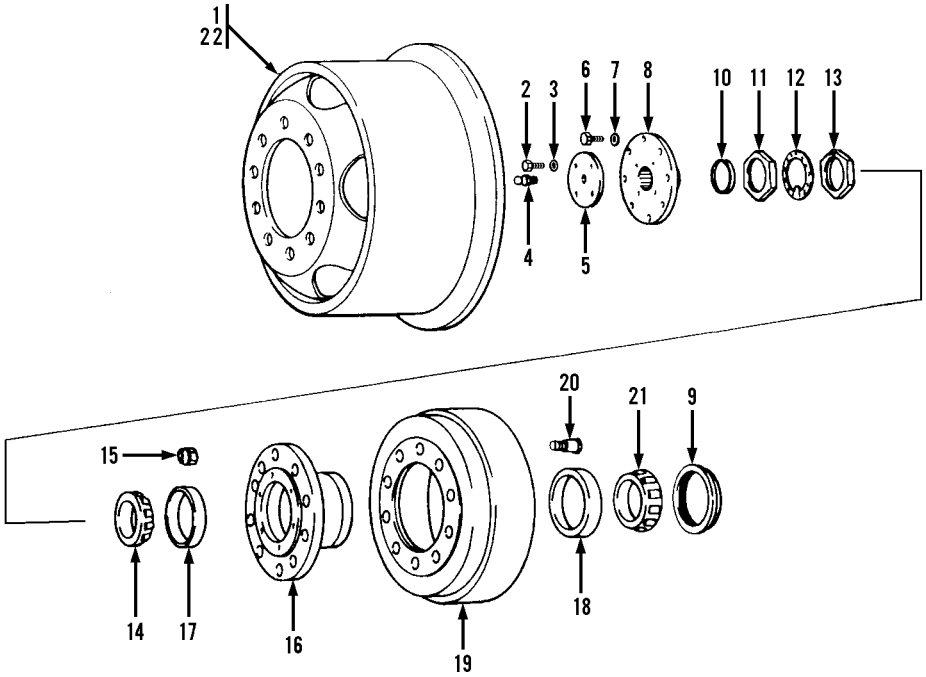
**Figure 5-25 Front Axle - Service Brake, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384125 | 1 | BRAKE ASSY, L.H., (includes items 1, 3, 4, 5, 6, 7, 13 & 17 thru 26) | |
| | 80384126 | 1 | BRAKE ASSY, R.H., (includes items 1, 3, 4, 5, 6, 7, 13 & 17 thru 26) | |
| 1 | 80684068 | 1 | CAMSHAFT, R.H. | |
| | 80684069 | 1 | CAMSHAFT, L.H. | |
| 2 | 83071523 | 1 | RETAINER, OUTER | |
| 3 | 80684070 | 2 | GREASE SEAL | |
| 4 | 77384857 | 1 | GREASE FITTING | |
| 5 | 80684071 | 1 | BRAKE SPIDER ASSY, (includes items 3, 4, 7 & 20) | |
| 6 | 86983442 | 1 | RETURN SPRING | |
| 7 | 80684073 | 1 | CAM BUSHING | |
| 8 | 77384861 | 1 | CAMSHAFT BRACKET | |
| 9 | 80684086 | 4 | FLAT WASHER | |
| 10 | 80684085 | 4 | CAPSCREW | |
| 11 | 77384862 | 1 | RETAINER ASSY | |
| 12 | 77384863 | 4 | TAPPING SCREW | |
| 13 | 77384858 | 2 | FLAT WASHER | |
| 14 | 80384127 | 1 | AUTO SLACK ADJUSTER | |
| 15 | 80684172 | 2 | FLAT WASHER | |
| 16 | 83481443 | 1 | SNAP RING | |
| 17 | 80684082 | 6 | CAPSCREW | |
| 18 | 80684083 | 1 | DUST SHIELD, (upper l.h. & lower r.h.) | |
| | 80684084 | 1 | DUST SHIELD, (lower l.h. & upper r.h.) | |
| 19 | 83683822 | 2 | BRAKE SHOE ANCHOR PIN | |
| 20 | 83683832 | 2 | BUSHING | |
| 21 | 80684088 | 2 | SPRING | |
| 22 | 80384128 | 2 | BRAKE SHOE, LINING & ROLLER ASSY, (includes items 23 thru 26) | |
| 23 | 80384129 | 2 | BRAKE SHOE ASSY, (includes item 26) | |
| 24 | 83683919 | 2 | RETAINER | |
| 25 | 77384860 | 2 | ROLLER | |
| 26 | 86881554 | 2 | RETURN SPRING PIN | |
| 27 | 83683836 | 12 | FLAT WASHER | |
| 28 | 80684049 | 12 | CAPSCREW | |
| | | | | |
| | | | | |
| | 77384855 | 1 | LINED SHOES WITH HARDWARE KIT, (includes items 6 & 19 thru 26) | |
| | 77384856 | 1 | HARDWARE KIT, (includes items 6, 19, 20, 21, 24, 25 & 26) | |
| | | | | |
| | | | **QUANTITIES SHOWN ARE FOR ONE WHEEL END ONLY.** | |

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**Figure 5-26 Front Axle - Disc Wheels & Rims, 4X4**



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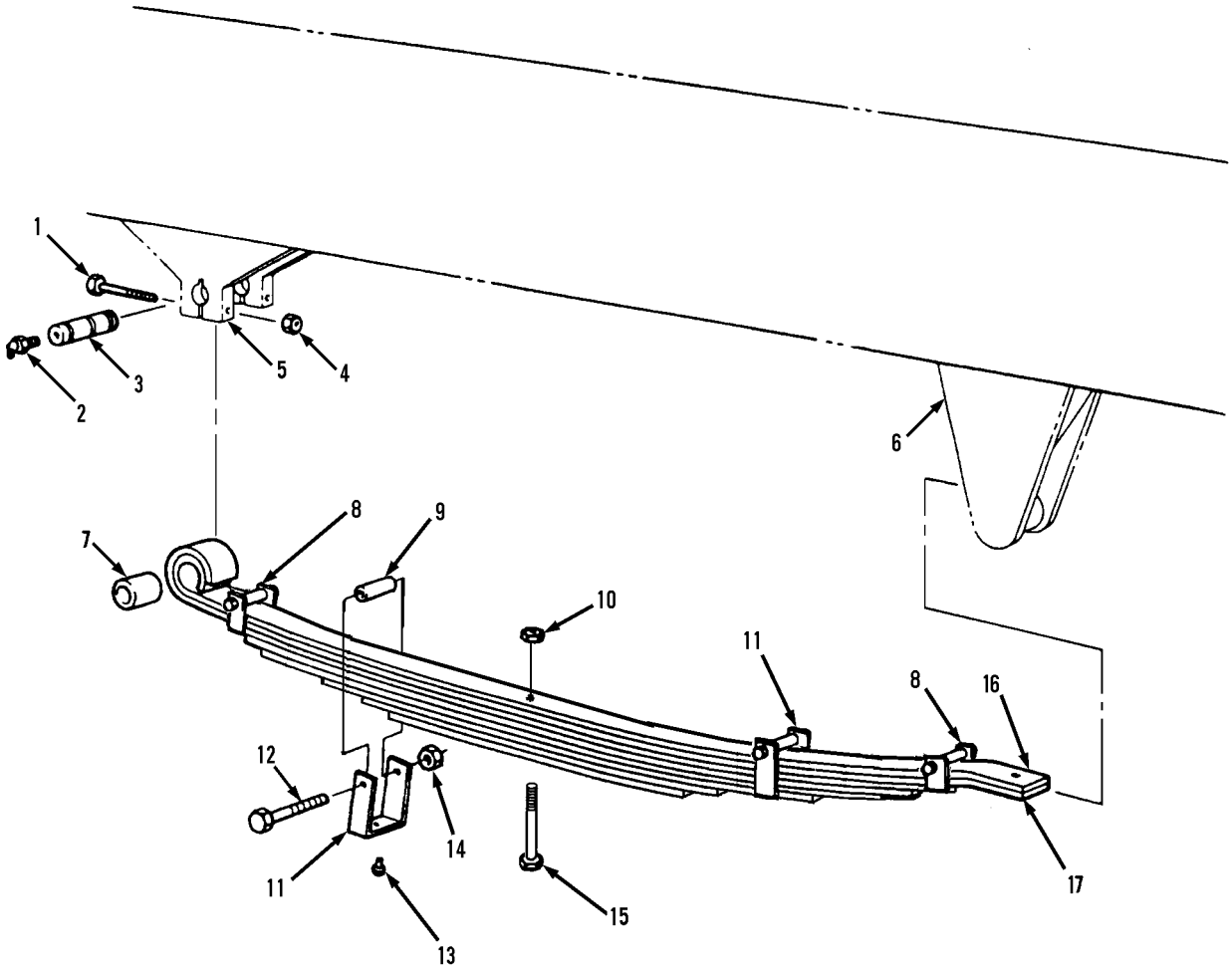
**Figure 5-26 Front Axle - Disc Wheels & Rims, 4X4**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384369 | 1 | HUB & DRUM ASSY, (includes items 9, 15 thru 21) | |
| | 80385123 | 1 | TIRE/WHEEL ASSY, (includes item 1 & 22), (standard) | |
| 1 | 80483024 | 1 | RIM, 22.5X11.75, (standard) | |
| 2 | 80684092 | 4 | HEX HD CAPSCREW | |
| 3 | 80684093 | 4 | HARDENED WASHER | |
| 4 | 77374038 | 1 | LUBE FITTING | |
| 5 | 83684982 | 1 | CAP | |
| 6 | 80984109 | 8 | HEX HD CAPSCREW | |
| 7 | 83081182 | 8 | FLAT WASHER | |
| 8 | 83684983 | 1 | DRIVE FLANGE ASSY, (includes item 10) | |
| 9 | 80684099 | 1 | OIL SEAL | |
| 10 | 83684985 | 1 | FELT RETAINER | |
| 11 | 83684986 | 1 | OUTER WHEEL NUT | |
| 12 | 83684987 | 1 | LOCKWASHER | |
| 13 | 83684988 | 1 | INNER WHEEL NUT | |
| 14 | 86984028 | 1 | OUTER BEARING CONE | |
| 15 | 80484008 | 10 | NUT ASSY | |
| 16 | 80384370 | 1 | HUB & CUP ASSY, (includes items 17 & 18) | |
| 17 | | 1 | OUTER BEARING CUP | |
| 18 | | 1 | INNER BEARING CUP | |
| 19 | 80384372 | 1 | BRAKE DRUM | |
| 20 | 80384371 | 10 | WHEEL STUD | |
| 21 | 77104445 | 1 | INNER BEARING CONE | |
| 22 | 86883384 | 1 | TIRE, 15:00X22.25, (standard), (not illustrated) | |
| | | | **QUANTITIES SHOWN ARE FOR ONE WHEEL END ONLY.** | |

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**Figure 5-27 Front Axle - Spring**



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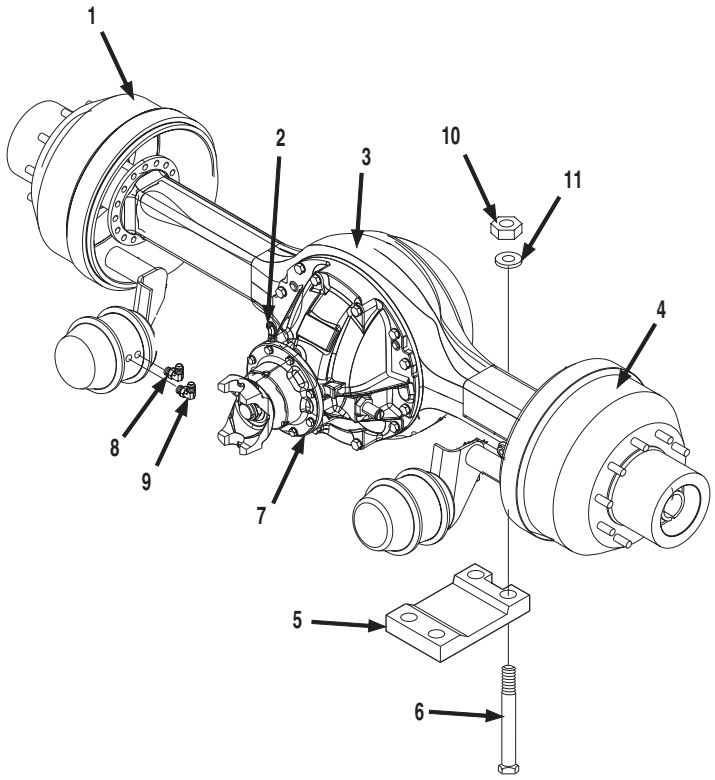
**Figure 5-27 Front Axle - Spring**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383233 | 1 | FRONT SPRING, (includes items 7 thru 17) | |
| 1 | 83201181 | 4 | HEX HD CAPSCREW, 7/16-14X2-3/4, GR8 | |
| 2 | 88671001 | 2 | LUBE FITTING, STRAIGHT, 1/8 | |
| 3 | 77381588 | 2 | PIN | |
| 4 | 88521007 | 4 | HEX LOCKNUT, 7/16-14 | |
| 5 | 80381016 | 2 | MOUNT BRACKET | |
| 6 | 80386007 | 1 | MOUNT BRACKET | |
| 7 | 80384116 | 1 | BUSHING | |
| 8 | 80384117 | 2 | CLAMP | |
| 9 | 80384119 | 4 | SPACER | |
| 10 | 80384020 | 1 | HEX NUT | |
| 11 | 80384118 | 2 | CLAMP | |
| 12 | 80384121 | 4 | HEX HD CAPSCREW | |
| 13 | 80384122 | 1 | RIVET | |
| 14 | 80384123 | 4 | HEX NUT | |
| 15 | 80384124 | 1 | HEX HD CAPSCREW | |
| 16 | 80384420 | 1 | LEAF#1 | |
| 17 | 80384421 | 1 | LEAF#2 | |

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**Figure 5-28 Rear Axle - Axle Assembly**



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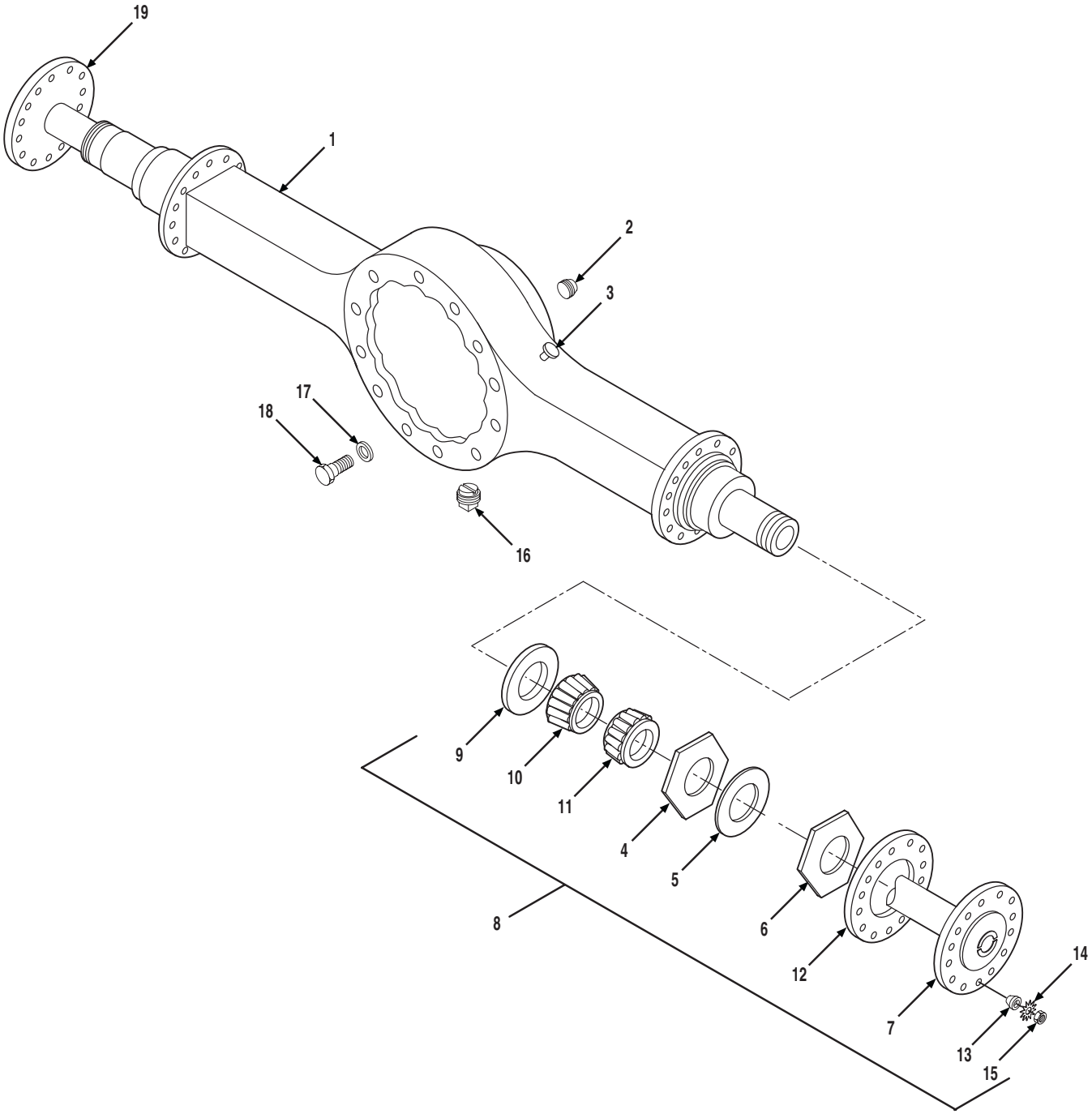
**Figure 5-28 Rear Axle - Axle Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385141 | 1 | REAR AXLE ASSY, w/DISC WHEELS, (includes all items except items 5, 6, 10 & 11) | |
| | 80383414 | 1 | REAR AXLE, (includes items 3, 4 & 7) | |
| 1 | | 2 | REAR DISC WHEEL & RIM ASSY, (see Figure 5-32 for details) | |
| 2 | 80383166 | 1 | TUBE FITTING, 45 DEGREES, 1/4X3/8 | |
| 3 | | 1 | HOUSING ASSY, (see Figure 5-29 for details) | |
| 4 | | 2 | SERVICE BRAKE ASSY, (see Figure 5-31 for details) | |
| 5 | 80381219 | 2 | AXLE SEAT | |
| 6 | 83201173 | 8 | HEX HD CAPSCREW, 7/8-14X9, GR8 | |
| 7 | | 1 | DIFFERENTIAL CARRIER ASSY, (see Figure 5-30 for details) | |
| 8 | 80383154 | 2 | TUBE FITTING, 90 DEGREES, 3/8X3/8 | |
| 9 | 80383155 | 2 | TUBE FITTING, 90 DEGREES, 3/8X1/2 | |
| 10 | 77383119 | 8 | HI-NUT, 7/8-14 | |
| 11 | 77383118 | 16 | WASHER | |

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**Figure 5-29 Rear Axle - Axle Housing**



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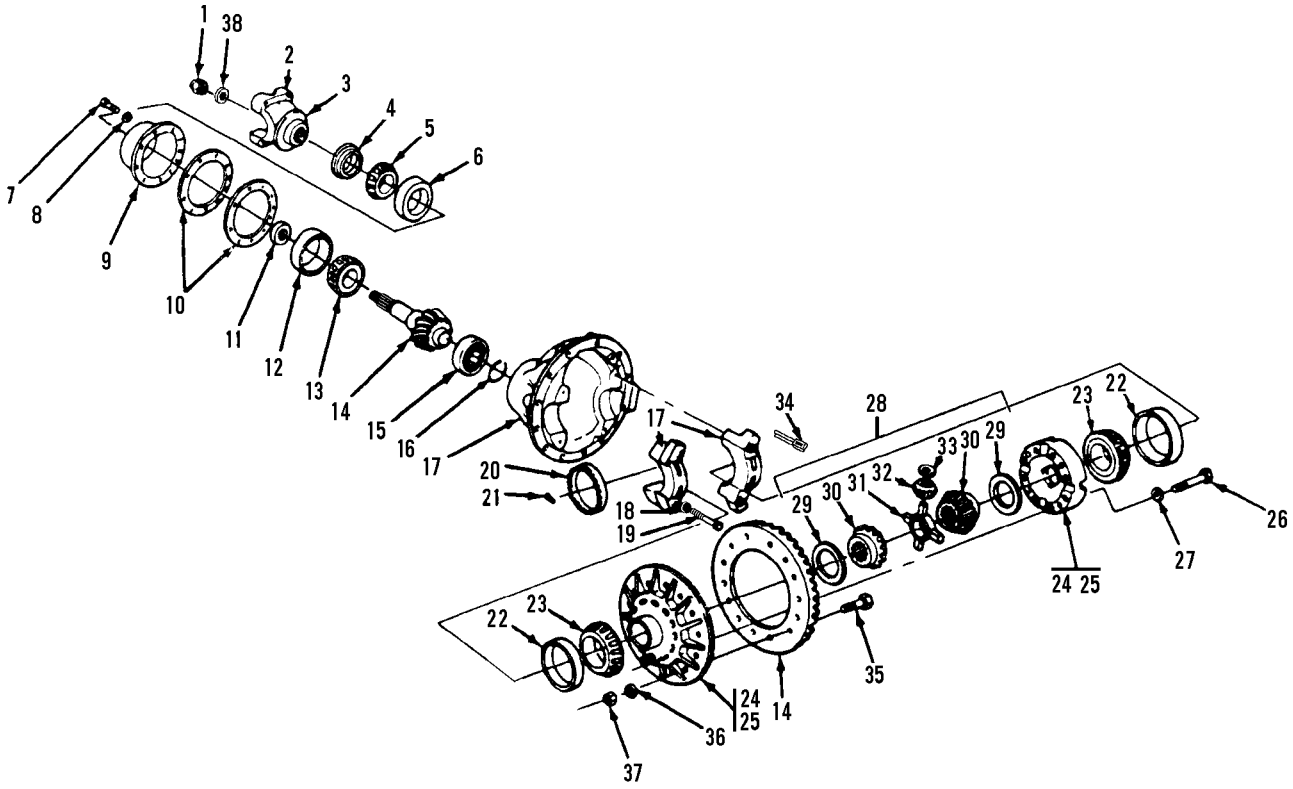
**Figure 5-29 Rear Axle - Axle Housing**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80384134 | 1 | HOUSING ASSY | |
| 2 | 77384016 | 1 | PLUG | |
| 3 | 83071503 | 1 | BREATHER | |
| 4 | 83073466 | 2 | INNER WHEEL BEARING NUT | |
| 5 | 80684140 | 2 | LOCK WASHER | |
| 6 | 83073302 | 2 | OUTER WHEEL BEARING NUT | |
| 7 | 86984540 | 1 | AXLE SHAFT, L.H. | |
| 8 | 83683355 | 1 | WHEEL BEARING KIT, (kit contains parts for two wheel assemblies), (includes items 9 thru 15) | |
| 9 | 83683357 | 2 | INNER OIL SEAL | |
| 10 | 86984028 | 2 | INNER BEARING CONE | |
| 11 | 80984200 | 2 | OUTER BEARING CONE | |
| 12 | 80984421 | 2 | AXLE SHAFT GASKET | |
| 13 | 83091186 | 16 | AXLE SHAFT DOWEL | |
| 14 | 83071409 | 16 | LOCKWASHER (star) | |
| 15 | 83483432 | 16 | HEX NUT | |
| 16 | 83073451 | 2 | MAGNETIC PLUG | |
| 17 | 83081182 | 12 | FLAT WASHER | |
| 18 | 80984109 | 8 | HEX HD CAPSCREW, SHORT | |
| | 80984108 | 4 | HEX HD CAPSCREW, LONG | |
| 19 | 86984539 | 1 | AXLE SHAFT, R.H. | |

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**Figure 5-30 Rear Axle - Differential**



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**Figure 5-30 Rear Axle - Differential**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384365 | 1 | DIFFERENTIAL CARRIER, (includes items 1 thru 37) | |
| 1 | 80984112 | 1 | HEX NUT | |
| 2 | 80484028 | 1 | YOKE & DEFLECTOR ASSY, (includes item 3) | |
| 3 | 80684121 | 1 | DEFLECTOR | |
| 4 | 77384641 | 1 | OIL SEAL | |
| 5 | 80984113 | 1 | OUTER BEARING CONE | |
| 6 | 80684160 | 1 | OUTER BEARING CUP | |
| 7 | 83687005 | 8 | HEX HD CAPSCREW | |
| 8 | 80684040 | 8 | FLAT WASHER | |
| 9 | 83954018 | 1 | PINION BEARING CAGE ASSY, (includes items 6 & 12) | |
| 10 | 80984189 | AR | SHIM, (.002 THICK) | |
| | 80984190 | AR | SHIM, (.005 THICK) | |
| | 80984191 | AR | SHIM, (.008 THICK) | |
| | 80984192 | AR | SHIM, (.020 THICK) | |
| 11 | 80984193 | AR | SPLIT SPACER KIT, (includes the following thicknesses) | |
| | | AR | SPACER (0.250 THICK) | |
| | | AR | SPACER (0.251 THICK) | |
| | | AR | SPACER (0.252 THICK) | |
| | | AR | SPACER (0.253 THICK) | |
| | | AR | SPACER (0.254 THICK) | |
| | | AR | SPACER (0.256 THICK) | |
| | | AR | SPACER (0.260 THICK) | |
| | | AR | SPACER (0.261 THICK) | |
| | | AR | SPACER (0.262 THICK) | |
| | | AR | SPACER (0.263 THICK) | |
| | | AR | SPACER (0.264 THICK) | |
| 12 | 80684161 | 1 | INNER BEARING CUP | |
| 13 | 80984116 | 1 | INNER BEARING CONE | |
| 14 | 80684162 | 1 | RING GEAR & PINION SET, (7.17) | |
| 15 | 83954022 | 1 | PINION ROLLER BEARING | |
| 16 | 83954023 | 1 | LOCK RING | |
| 17 | 80384136 | 1 | DIFFERENTIAL CARRIER & CAP ASSY, (includes items 18, 19 & 21) | |
| 18 | 77384648 | 4 | FLAT WASHER | |
| 19 | 77384647 | 4 | HEX HD CAPSCREW | |
| 20 | 83954025 | 2 | BEARING ADJUSTING RING | |
| 21 | 80984183 | 4 | BALL | |
| 22 | 83384039 | 2 | BEARING CUP | |
| 23 | 86984028 | 2 | BEARING CONE | |
| 24 | 83954097 | 1 | DIFFERENTIAL CASE & NEST ASSY, (includes items 25 thru 33) | |
| 25 | 80984018 | 1 | DIFFERENTIAL CASE ASSY, (includes items 26 & 27) | |
| 26 | 83954028 | 12 | HEX HD CAPSCREW | |
| 27 | 83081182 | 12 | FLAT WASHER | |
| 28 | 77384634 | 1 | DIFFERENTIAL KIT, (includes items 29 thru 33) | |
| 29 | 77384741 | 2 | THRUST WASHER | |
| 30 | 77384742 | 2 | SIDE GEAR | |
| 31 | 77384745 | 1 | SPIDER | |
| 32 | 77384744 | 4 | PINION | |
| 33 | 77384743 | 4 | THRUST WASHER | |
| 34 | 83483441 | 2 | COTTER PIN | |

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**Figure 5-30 Rear Axle - Differential (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 35 | 80984020 | 12 | HEX HD CAPSCREW | |
| 36 | 83081182 | 12 | FLAT WASHER | |
| 37 | 80984021 | 12 | HEX NUT | |
| 38 | 83081170 | 1 | FLAT WASHER | |

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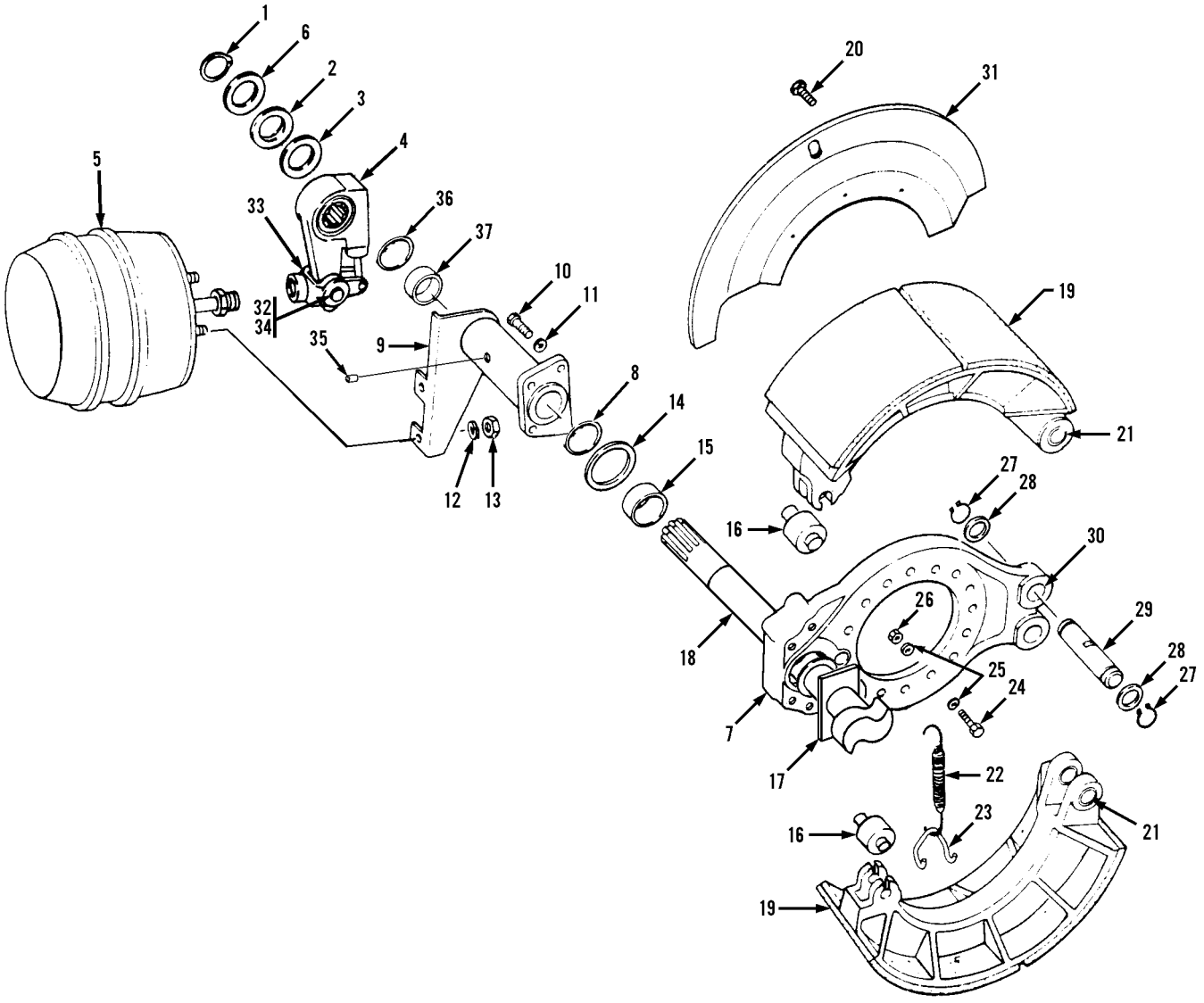
**Figure 5-30 Rear Axle - Differential (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 5-31 Rear Axle - Service Brake**



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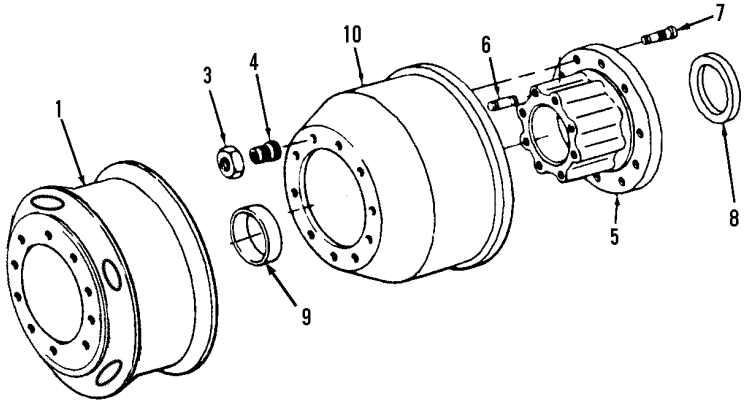
**Figure 5-31 Rear Axle - Service Brake**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 86984005 | 1 | SNAP RING | |
| 2 | 80684165 | AR | FLAT WASHER | |
| 3 | 80684164 | AR | FLAT WASHER | |
| 4 | 80684166 | 1 | AUTOMATIC SLACK ADJUSTER, L.H. | |
| | 80684167 | 1 | AUTOMATIC SLACK ADJUSTER, R.H. | |
| 5 | 77384446 | 1 | BRAKE CHAMBER ASSY | |
| 6 | 85403196 | 1 | FLAT WASHER | |
| 7 | 83954010 | 1 | SPIDER ASSY, (includes items 14, 15 & 30) | |
| 8 | 85403198 | 1 | O-RING | |
| 9 | 83684069 | 1 | BRACKET ASSY, L.H., (includes items 36 & 37) | |
| | 83684068 | 1 | BRACKET ASSY, R.H., (includes items 36 & 37) | |
| 10 | 83684543 | 4 | HEX HD CAPSCREW | |
| 11 | 86981562 | 4 | FLAT WASHER | |
| 12 | 83684545 | 2 | FLAT WASHER | |
| 13 | 83481440 | 2 | LOCKNUT | |
| 14 | 83071688 | 1 | GREASE SEAL | |
| 15 | 80684170 | 1 | BUSHING | |
| 16 | 77384447 | 2 | ROLLER | |
| 17 | 80684171 | 1 | SPECIAL WASHER | |
| 18 | 80684173 | 1 | CAMSHAFT, L.H. | |
| | 80684174 | 1 | CAMSHAFT, R.H. | |
| 19 | 80484034 | 2 | BRAKE SHOE & LINING ASSY, (includes items 9) | |
| 20 | 83954009 | 6 | CAPSCREW | |
| 21 | 83684070 | 4 | BUSHING | |
| 22 | 83684085 | 1 | RETURN SPRING | |
| 23 | 83684086 | 2 | SPRING PIN | |
| 24 | 80384139 | 8 | CAPSCREW | |
| 25 | 83683836 | 16 | FLAT WASHER | |
| 26 | 86683065 | 4 | LOCKNUT | |
| 27 | 86984005 | 4 | SNAP RING | |
| 28 | 80684172 | 4 | FLAT WASHER | |
| 29 | 80984197 | 2 | BRAKE SHOE ANCHOR PIN | |
| 30 | 83684081 | 2 | BUSHING | |
| 31 | 80384140 | 1 | DUST SHIELD ASSY | |
| 32 | 86881560 | 1 | YOKE PIN | |
| 33 | 80384409 | 1 | CLEVIS | |
| 34 | 80384410 | 1 | COTTER PIN | |
| 35 | 83684981 | 1 | GREASE FITTING | |
| 36 | 85403197 | 1 | SEAL | |
| 37 | 83071693 | 1 | BUSHING | |
| | | | **QUANTITIES SHOWN ARE FOR ONE BRAKE ASSY.** | |
| | | | **WHEN REPLACING BRAKE LINING IT IS RECOMMENDED TO REPLACE ALL LININGS AT THE SAME TIME.** | |

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**Figure 5-32 Rear Axle - Disc Wheel & Rim**



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**Figure 5-32 Rear Axle - Disc Wheel & Rim**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80484022 | 1 | HUB & DRUM ASSY, WEBB, (includes items 5 thru 10) | |
| 1 | 80483025 | 1 | RIM ASSY, STD. | |
| 2 | 77383314 | Ref | VALVE STEM EXTENSION, 6”, (inside dual tires - not shown) | |
| 3 | 86881221 | 10 | OUTER NUT, R.H. | |
| | 86881220 | 10 | OUTER NUT, L.H. | |
| 4 | 86881218 | 10 | INNER NUT, R.H. | |
| | 86881217 | 10 | INNER NUT, L.H. | |
| 5 | 77384841 | 1 | HUB, 10 STUD OUTBOARD | |
| 6 | 77384843 | 8 | DRIVE STUD, 5/8-18 | |
| 7 | 80484036 | 10 | WHEEL STUD | |
| 8 | 83071793 | 1 | INNER BEARING CUP | |
| 9 | 83071572 | 1 | OUTER BEARING CUP | |
| 10 | 80484035 | 1 | BRAKE DRUM | |
| 11 | 83683312 | 1 | TIRE, (not illustrated) | |

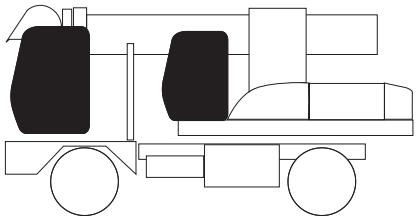
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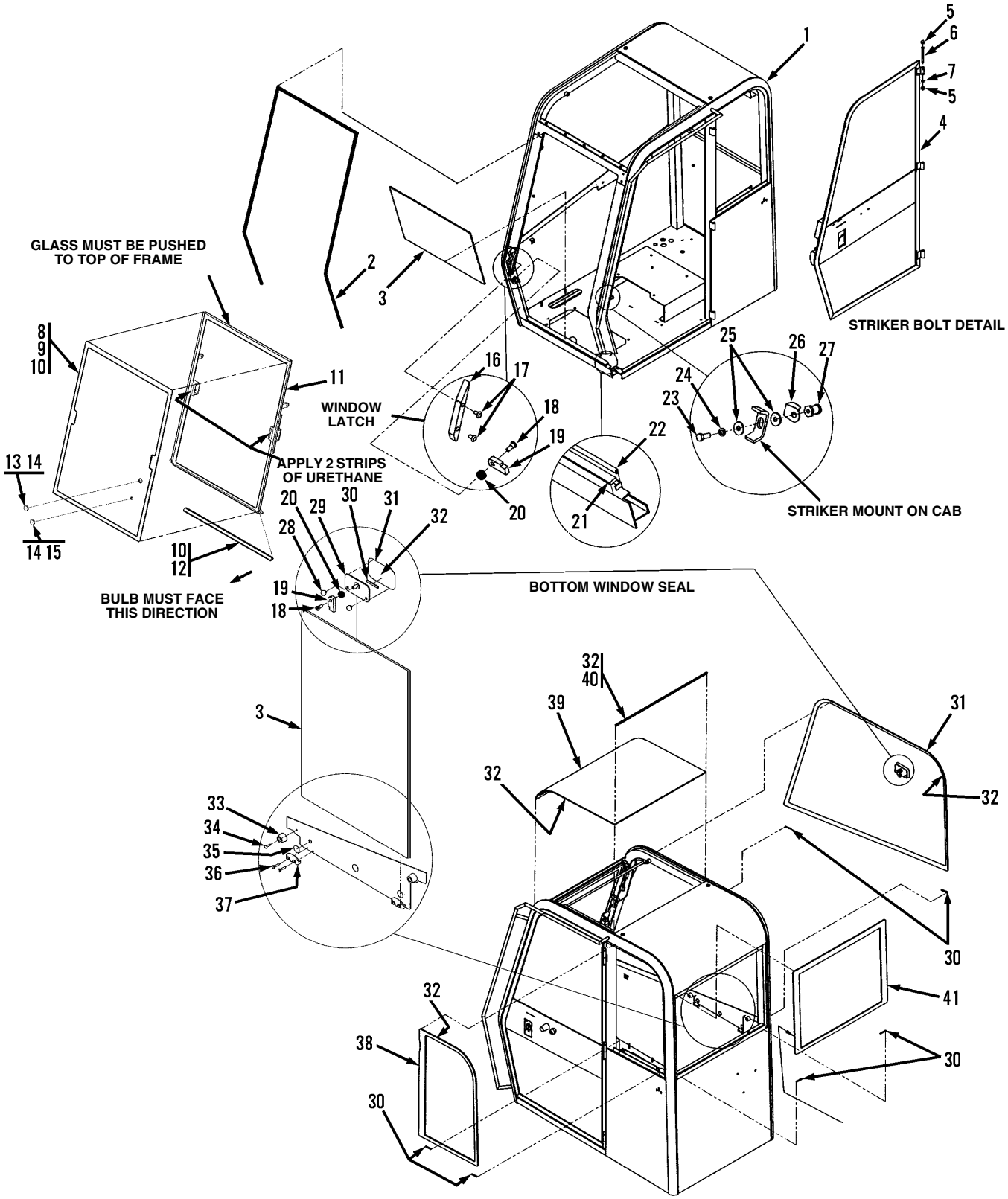
# SECTION 6
# CAB



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**Figure 6-1 Operators Cab, Upperstructure**



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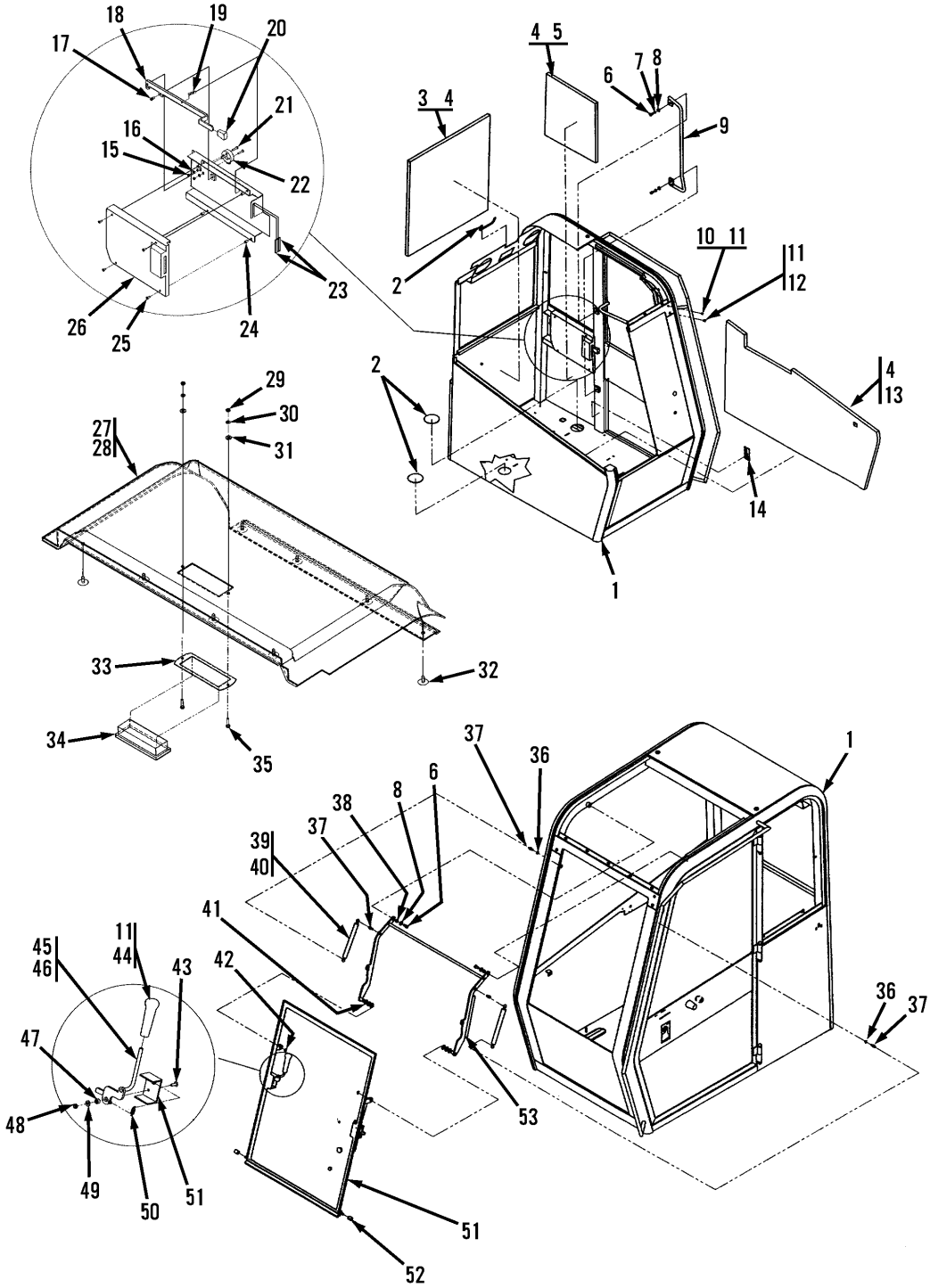
**Figure 6-1 Operators Cab, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80363001 | 1 | OPERATORS CAB, (includes all items on Figures 6-1 & 6-2) | |
| 2 | 80364001 | 12.25’ | SEAL | |
| 3 | 80364002 | 1 | LOWER FRONT WINDOW | |
| 4 | | Ref | CAB DOOR, (see Figure 6-3 for details) | |
| 5 | 80364004 | 6 | CAP | |
| 6 | 80364005 | 3 | HEX HD CAPSCREW, 3/8-16X4-1/2, GR8 | |
| 7 | 80364006 | 3 | HEX LOCKNUT, 3/8-16 | |
| 8 | 80364007 | 1 | FRONT WINDOW, (includes items 9 thru 15) | |
| 9 | 80364008 | 1 | FRONT WINDOW | |
| 10 | 80364009 | AR | URETHANE SEALANT | |
| 11 | 80364010 | 1 | DOME PLUG, 1-1/8 | |
| 12 | 80364011 | 1 | DOME PLUG, 5/8 | |
| 13 | 80364012 | AR | CLEAR SEALANT | |
| 14 | 80364013 | 2.42’ | BULB SEAL | |
| 15 | 80364014 | 1 | WINDOW FRAME WELDMENT | |
| 16 | 80364015 | 2 | BOTTOM RAIL INSERT | |
| 17 | 80364016 | 4 | SCREW, 1/4-20X1/2 | |
| 18 | 80264059 | 4 | SHOULDER BOLT, 5/16-18X3/4 | |
| 19 | 80364017 | 3 | LATCH BOLT | |
| 20 | 80364018 | 3 | SPRING | |
| 21 | 80364019 | 2.6’ | SEAL | |
| 22 | 80364020 | 4.9’ | TRIM | |
| 23 | 91334024 | 1 | HEX HD CAPSCREW, 3/8-16X7/8, GR8 | |
| 24 | 80364021 | 3 | LOCKWASHER, 3/8 | |
| 25 | 91344042 | 2 | FLAT WASHER | |
| 26 | 80364022 | 1 | STRIKER BOLT GUARD | |
| 27 | 80364023 | 1 | STRIKER BOLT | |
| 28 | 80364024 | 2 | BUMPER | |
| 29 | 80364025 | 1 | TOP STORAGE BRACKET WELDMENT | |
| 30 | 80264031 | 7 | BLOCK | |
| 31 | 80364026 | 1 | WINDOW | |
| 32 | 80364027 | AR | SEALANT | |
| 33 | 80264069 | 2 | KNOB | |
| 34 | 80364028 | 2 | SCREW | |
| 35 | 80364029 | 3 | BUMPER | |
| 36 | 91334004 | 4 | SCREW, #10-32X1 | |
| 37 | 91334005 | 2 | WINDOW CLIP | |
| 38 | 80364030 | 1 | WINDOW | |
| 39 | 80364031 | 1 | SKYLIGHT | |
| 40 | 80364032 | 2.75’ | TRIM | |
| 41 | 80364033 | 1 | WINDOW | |

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**Figure 6-2 Operators Cab, Upperstructure**



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**Figure 6-2 Operators Cab, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80363001 | 1 | OPERATORS CAB, (includes all items on Figures 6-1 & 6-2) | |
| 2 | 80364020 | AR | TRIM | |
| 3 | 80364034 | 1 | REAR FOAM | |
| 4 | 91344026 | AR | ADHESIVE | |
| 5 | 80364035 | 1 | LEFT SIDE FOAM | |
| 6 | 80364036 | 4 | HEX HD CAPSCREW, 3/8-16X3/4, GR8 | |
| 7 | 80364021 | 2 | LOCKWASHER, 3/8 | |
| 8 | 80364037 | 4 | FLAT WASHER, 3/8 | |
| 9 | 80364038 | 1 | GRAB RAIL | |
| 10 | 80264035 | 1 | HOLE PLUG | |
| 11 | 80364039 | AR | SEALANT | |
| 12 | 80264112 | 2 | HOLE PLUG | |
| 13 | 80364040 | 1 | RIGHT SIDE FOAM | |
| 14 | 80364041 | 1 | SERIAL TAG | |
| 15 | 80264072 | 2 | HEX NUT, 1/4-20 | |
| 16 | 80364042 | 2 | FLAT WASHER, 1/4 | |
| 17 | 80264059 | 4 | HEX HD CAPSCREW, 5/16-18X3/4 | |
| 18 | 80364043 | 1 | HOLD OPEN LEVER | |
| 19 | 80264058 | 1 | SPRING | |
| 20 | 80264057 | 1 | GRIP | |
| 21 | 91344017 | 2 | TORX HD SCREW, 1/4-20X1/4, GR5 | |
| 22 | 80364044 | 1 | DOOR RETAINER | |
| 23 | 80364045 | AR | TRIM | |
| 24 | 80364046 | 4 | INSERT NUT, 1/4-20 | |
| 25 | 80264045 | 4 | TORX HD SCREW, 1/4-20X5/8, GR5 | |
| 26 | 80364047 | 1 | COVER | |
| 27 | 80364048 | 1 | HEADLINER ASSY, (includes items 28 thru 35) | |
| 28 | 80364049 | 1 | HEADLINER | |
| 29 | 80264070 | 2 | HEX NUT, #10-24 | |
| 30 | 80364050 | 2 | LOCKWASHER | |
| 31 | 80364051 | 2 | FLAT WASHER | |
| 32 | 80364052 | 8 | FASTENER | |
| 33 | 80364053 | 1 | BEZEL | |
| 34 | 80364054 | 1 | DOME LIGHT | |
| 35 | 80364055 | 2 | SCREW | |
| 36 | 80264098 | 2 | LOCKWASHER | |
| 37 | 80264097 | 4 | STUD | |
| 38 | 80364056 | 2 | BUSHING | |
| 39 | 80264096 | 2 | GAS SPRING | |
| 40 | 80264095 | 4 | CLIP | |
| 41 | 80364057 | 6 | FLAT WASHER | |
| 42 | 80364058 | 2 | RETAINING RING | |
| 43 | 80264053 | 2 | TORX HD SCREW, 1/4-20X3/4, GR5 | |
| 44 | 80364059 | 2 | KNOB | |
| 45 | 80364060 | 1 | LATCH HANDLE, R.H., (shown) | |
| 46 | 80364061 | 1 | LATCH HANDLE, L.H., (not shown) | |
| 47 | 80364062 | 2 | BUSHING | |
| 48 | 91344040 | 2 | HEX LOCKNUT, 1/4-20 | |
| 49 | 80364063 | 2 | FLAT WASHER | |

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**Figure 6-2 Operators Cab, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 50 | 80364064 | 2 | SPRING | |
| 51 | | Ref | FRONT WINDOW, (see Figure 6-1 for details) | |
| 52 | 80264094 | 2 | WINDOW ROLLER | |
| 53 | 80364065 | 1 | LINK WELDMENT | |

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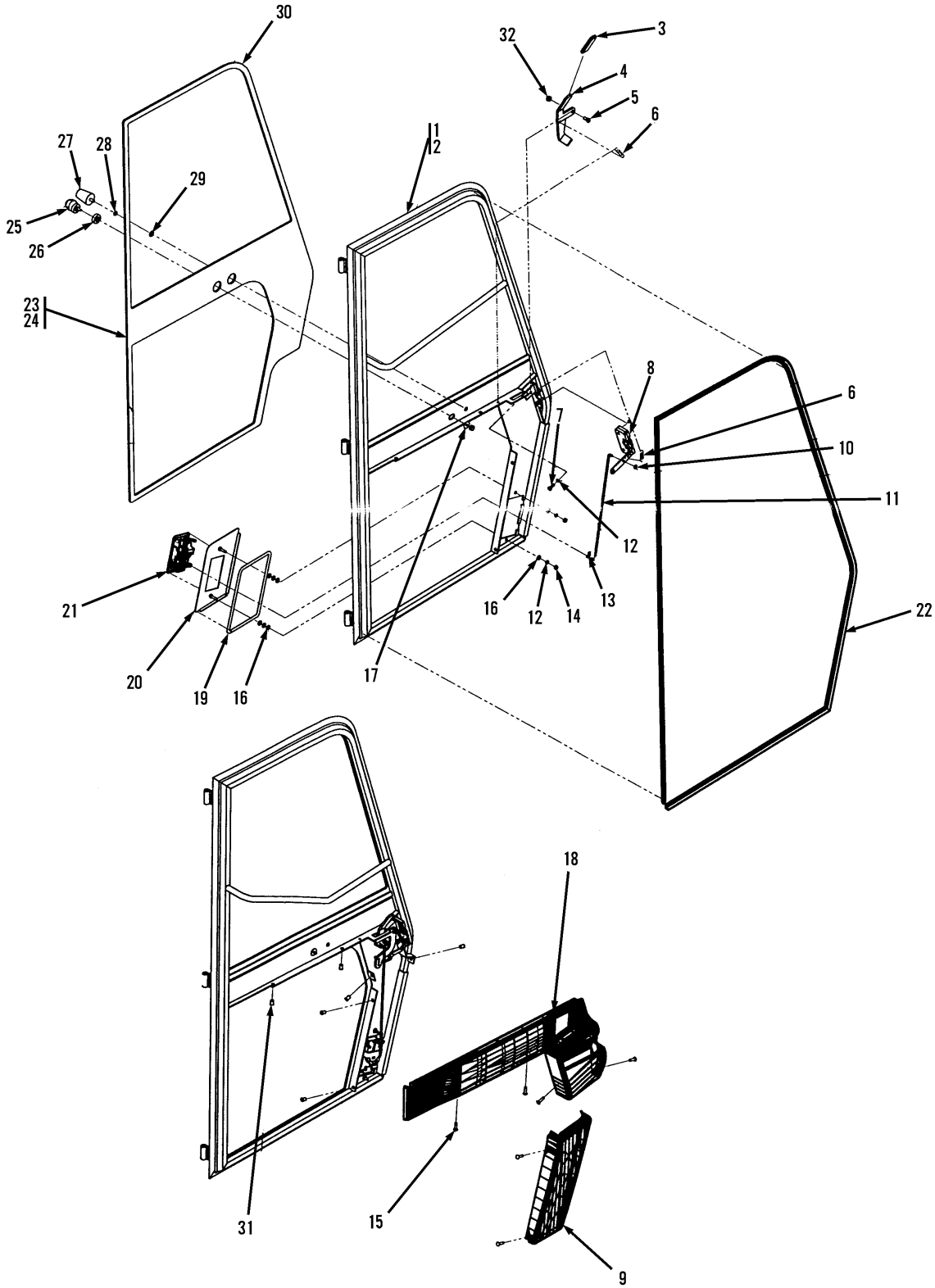
**Figure 6-2 Operators Cab, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 6-3 Cab Door, Upperstructure**



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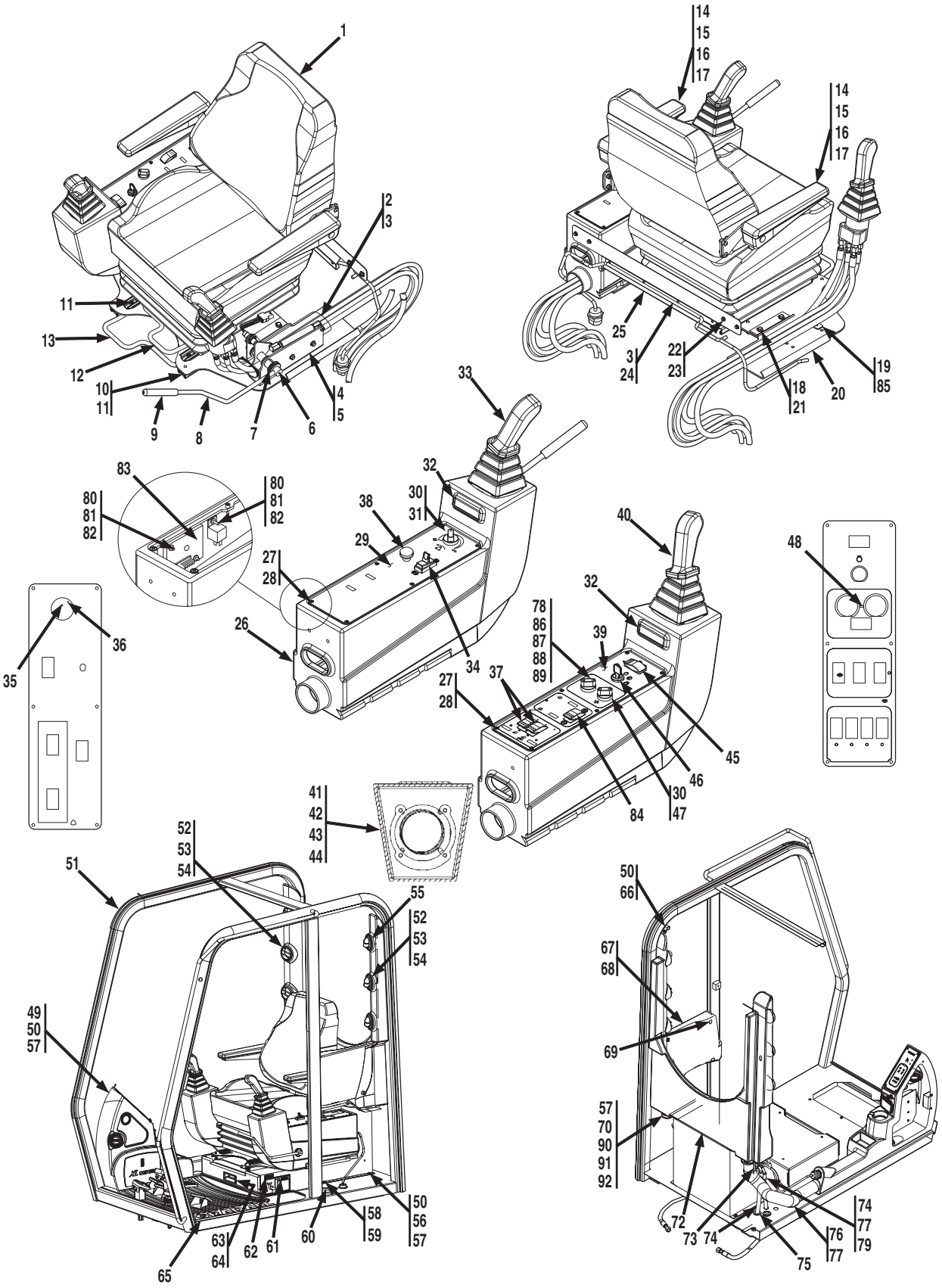
**Figure 6-3 Cab Door, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80364149 | 1 | DOOR, (includes all items) | |
| 2 | 80364139 | 1 | DOOR WELDMENT | |
| 3 | 80364148 | 1 | GRIP | |
| 4 | 80364144 | 1 | DOOR HANDLE | |
| 5 | 80264059 | 1 | BOLT | |
| 6 | 80264058 | 2 | SPRING | |
| 7 | 80384189 | 4 | SCREW | |
| 8 | 91344037 | 1 | CAM LATCH | |
| 9 | 80364147 | 1 | DOOR COVER, (lower plastic) | |
| 10 | 80364145 | 1 | RETAINER | |
| 11 | 80364143 | 1 | DOOR ROD | |
| 12 | 80384190 | 6 | LOCKWASHER | |
| 13 | 80384185 | 1 | CLIP | |
| 14 | 80264072 | 2 | HEX NUT | |
| 15 | 91344024 | 6 | SCREW | |
| 16 | 80364063 | 8 | FLAT WASHER | |
| 17 | 80264082 | 1 | FLAT WASHER | |
| 18 | 80364146 | 1 | DOOR COVER, (upper plastic) | |
| 19 | 91484029 | 2.6’ | BULB SEAL | |
| 20 | 80364142 | 1 | RELEASE MOUNT WELDMENT | |
| 21 | 80384184 | 1 | PADDLE LATCH | |
| 22 | 80364001 | 1 | SEAL | |
| 23 | 80364009 | 1 | URETHANE | |
| 24 | 91404302 | 1 | ACTIVATOR | |
| 25 | 80364140 | 1 | DOOR RETAINER | |
| 26 | 80364141 | 1 | BUSHING, SHOCK MOUNT | |
| 27 | 91404300 | 1 | RUBBER BUMPER | |
| 28 | 80264098 | 1 | WASHER | |
| 29 | 91334032 | 1 | WASHER | |
| 30 | 80364138 | 1 | DOOR WINDOW | |
| 31 | 80364046 | 6 | INSERT NUT | |
| 32 | 80264093 | 1 | LOCKNUT | |

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**Figure 6-4 Cab Interior Components, Upperstructure**



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**Figure 6-4 Cab Interior Components, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | CAB SEAT, (see Figure 6-6 for details) | |
| 2 | 83953053 | 1 | SLEEVE | |
| 3 | 90027187 | 6 | TY-RAP | |
| 4 | | Ref | PILOT CUT-OFF ASSY, (see Figure 6-15 for details) | |
| 5 | 91363018 | 4 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 6 | 88501108 | 1 | HEAVY HEX JAM NUT, 1/2-13 | |
| 7 | 85131075 | 1 | GROMMET | |
| 8 | 80363083 | 1 | LEVER | |
| 9 | 80363045 | 1 | KNOB | |
| 10 | 80363005 | 1 | SLIDE RAIL KIT | |
| 11 | 88212223 | 8 | SOCKET HD CAPSCREW, 5/16-18X1/2 | |
| 12 | 80363061 | 1 | TOP SLIDE RELEASE LEVER | |
| 13 | 80363062 | 1 | BOTTOM SLIDE RELEASE LEVER | |
| 14 | 80361021 | 2 | SEAT ARM MOUNT BRACKET | |
| 15 | 88261024 | 4 | SOCKET BUTTON HD CAPSCREW, 5/16-18X1 | |
| 16 | 88551010 | 4 | LOCKWASHER, 5/16 | |
| 17 | 88501005 | 4 | HEX NUT, 5/16 | |
| 18 | 77143003 | 4 | WHIZ-LOK SCREW, 5/16-18X5/8 | |
| 19 | 91023098 | 2 | FENDER WASHER, 5/16 | |
| 20 | 80361001 | 1 | FORMED SEAT PLATE | |
| 21 | 80361002 | 2 | CLAMP ANGLE | |
| 22 | 80263012 | 4 | WHIZ-LOK SCREW, 1/4-20X1/42 | |
| 23 | 77143013 | 4 | WHIZ-LOK NUT, 1/4-20 | |
| 24 | 80463016 | 1 | CAB HARNESS | |
| 25 | 80361003 | 1 | SEAT HARNESS SUPPORT | |
| 26 | 80363006 | 2 | POD | |
| 27 | 80363034 | 12 | TINNERMAN NUT | |
| 28 | 80363033 | 12 | FLATHEAD SCREW | |
| 29 | 80463015 | 1 | POD PANEL, L.H. | |
| 30 | 80363029 | 2 | KNOB | |
| 31 | 80964002 | 1 | TILT SPEED RHEOSTAT | |
| 32 | 80363107 | 2 | POD LIGHT | |
| 33 | | Ref | JOYSTICK ASSY, L.H., (see Figure 7-1 for details) | |
| 34 | 80363132 | 1 | CARLING SWITCH | |
| 35 | 86983193 | 1 | BULLET TERMINAL, MALE | |
| 36 | 77163105 | 1 | BULLET TERMINAL, FEMALE | |
| 37 | 91403304 | 2 | CARLING SWITCH | |
| 38 | 83953038 | 1 | WINDSHIELD WIPER SWITCH | |
| 39 | 80463014 | 1 | POD PANEL, R.H. | |
| 40 | | Ref | JOYSTICK ASSY, R.H., (see Figure 7-1 for details) | |
| 41 | 80361043 | 2 | TAPPED PLATE | |
| 42 | 88211042 | 8 | SOCKET HD CAPSCREW, 1/4-20X1, GR8 | |
| 43 | 88551009 | 8 | LOCKWASHER, 1/4 | |
| 44 | 88561001 | 8 | FLAT WASHER, 1/4 | |
| 45 | 80383112 | 1 | CARLING SWITCH | |
| 46 | 91033317 | 1 | IGNITION SWITCH | |
| 47 | 80964001 | 1 | BLOWER SWITCH | |
| 48 | 88691387 | 1 | SINGLE TUBE CLIP | |
| 49 | | Ref | CAB CONSOLE, (see Figure 6-5 for details) | |

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**Figure 6-4 Cab Interior Components, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 50 | 80263012 | 5 | WHIZ-LOK SCREW, 1/4-20X1/2 | |
| 51 | | Ref | OPERATORS CAB, (see Figure 6-1 for details) | |
| 52 | 88521304 | 2 | HEX LOCKNUT, 1/4-20 | |
| 53 | 88561002 | 2 | FLAT WASHER, 1/4 | |
| 54 | 91083533 | 2 | FENDER WASHER, 11/32 | |
| 55 | 80363106 | 6 | AIR DIFFUSER VENT | |
| 56 | | Ref | CAB HEATER, (see Figure 6-7 for details) | |
| 57 | 88561003 | 7 | FLAT WASHER, 5/16 | |
| 58 | 88201007 | 1 | HEX HD CAPSCREW, 1/4-20X1-1/2, GR5 | |
| 59 | 88561107 | 1 | FLAT WASHER, 1/4 | |
| 60 | | 14” | FLEX GUARD | |
| 61 | 80603036 | 1 | WARNING DECAL | |
| 62 | 80363155 | 1 | MANUAL DECAL | |
| 63 | 80363059 | 1 | SEAT RISER DRAWER | |
| 64 | 80363060 | 1 | LATCH | |
| 65 | 80363126 | 1 | FLOOR MAT | |
| 66 | 91043147 | 1 | SUPPORT CLAMP | |
| 67 | 80363105 | 1 | INSIDE LATCH COVER | |
| 68 | 88201005 | 3 | HEX HD CAPSCREW, 1/4-20X1, GR5 | |
| 69 | 88201009 | 1 | HEX HD CAPSCREW, 1/4-20X2, GR5 | |
| 70 | 80363193 | 1 | PLENUM | |
| 71 | 77143013 | 2 | WHIZ-LOK NUT, 1/4-20 | |
| 72 | 90200755 | AR | GASKA-TAPE | |
| 73 | 82034000 | 20’ | WIPER/WASHER HOSE | |
| 74 | 84719568 | 2 | HOSE ASSY | |
| 75 | 86561279 | 2 | GROMMET | |
| 76 | | 3’ | FLEXIBLE AIR DUCT | |
| 77 | 90027187 | 6 | TY-RAP | |
| 78 | 80365027 | 1 | HEATER RHEOSTAT | |
| 79 | 83953053 | 1 | PROTECTIVE SLEEVE | |
| 80 | 88301059 | 3 | RD HD MACHINE SCREW, #6-32X1 | |
| 81 | 88501608 | 3 | HEX NUT, #6-32 | |
| 82 | 88561103 | 3 | FLAT WASHER, #6 | |
| 83 | 80433192 | 1 | HEATER CARD | |
| 84 | 80383113 | 1 | CARLING SWITCH | |
| 85 | 77143006 | 2 | WHIZ-LOK NUT, 5/16-18 | |
| 86 | 88241014 | 2 | SOCKET FLAT HD CAPSCREW, #6-32X5/8 | |
| 87 | 88561103 | 2 | FLAT WASHER, #6 | |
| 88 | 88501608 | 2 | HEX NUT, #6-32 | |
| 89 | 80363069 | 1 | KNOB | |
| 90 | 80364179 | 1 | CARGO NET | |
| 91 | 80364180 | 2 | STUD | |
| 92 | 80364181 | 10 | SCREW | |

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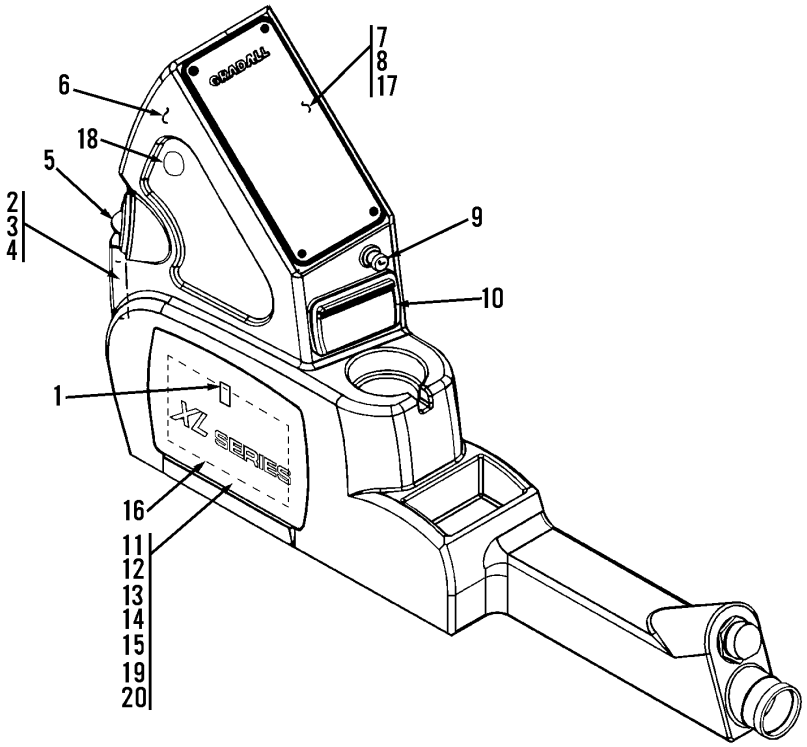
**Figure 6-4 Cab Interior Components, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 6-5 Cab Console Upperstructure**




**FOR THE LAYOUT OF THE PRINTED CIRCUIT BOARD, (Item 12), SEE FIGURE 10-6.**

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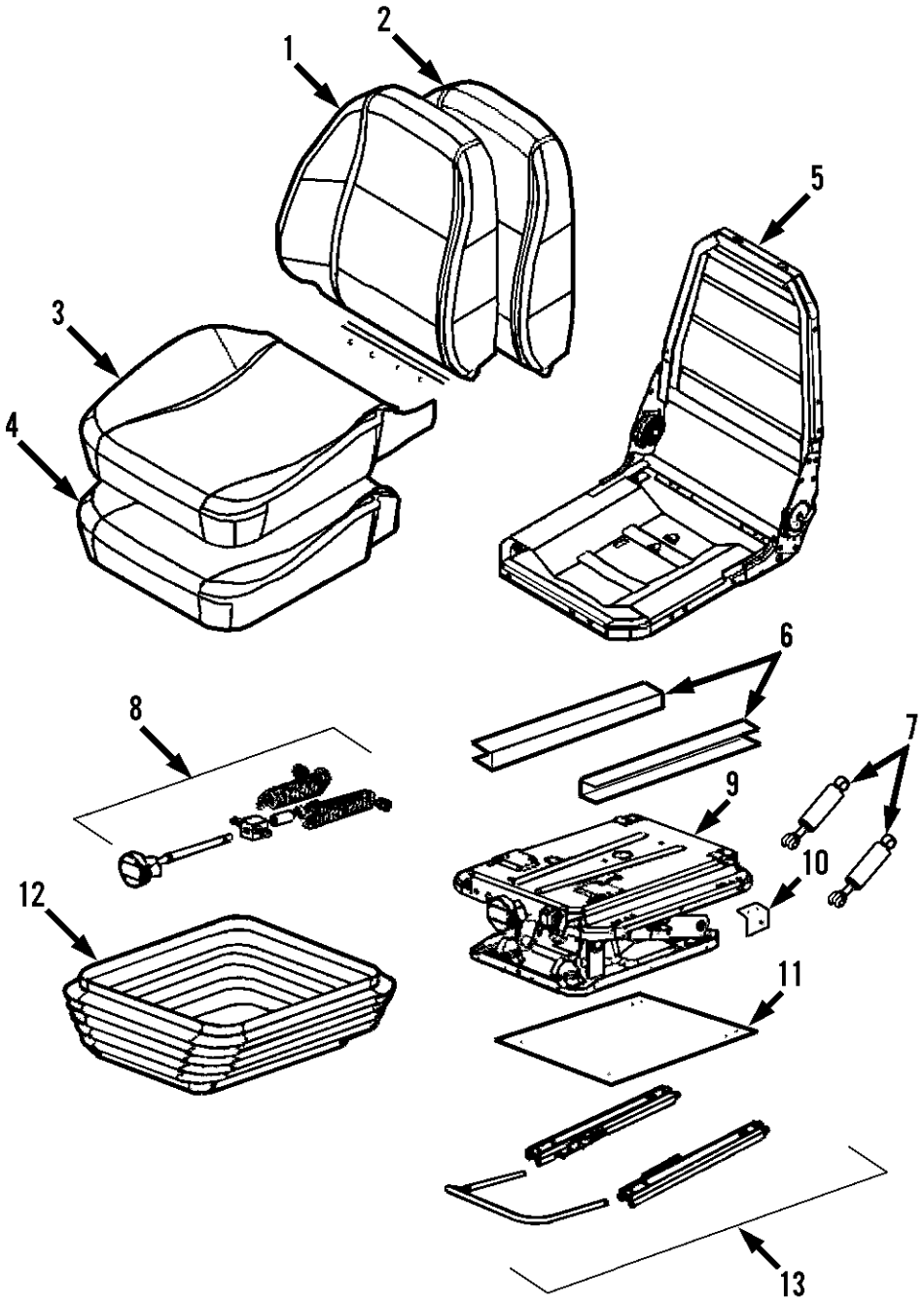
**Figure 6-5 Cab Console Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80363066 | 1 | LATCH | |
| 2 | 80363116 | 1 | ALTERNATING FLASHER | |
| 3 | 88301070 | 2 | ROUND HD MACHINE SCREW, #8-32X1/2 | |
| 4 | 88501610 | 2 | HEX NUT, #8-32 | |
| 5 | 80963025 | 1 | BALL LOUVER | |
| 6 | 80363007 | 1 | CONSOLE | |
| 7 | 80463017 | 1 | ELECTRONIC MONITORING UNIT | |
| 8 | 80363033 | 4 | FLATHEAD TORX SCREW, #10-32 | |
| 9 | 80363123 | 1 | CIGARETTE LIGHTER | |
| 10 | 77383891 | 1 | ASHTRAY | |
| 11 | 80363039 | 1 | CONSOLE DOOR | |
| 12 | 80463010 | 1 | PRINTED CIRCUIT BOARD | |
| 13 | 88301090 | 6 | ROUND HD MACHINE SCREW, #10-24X1/2 | |
| 14 | 80363185 | 6 | NYLON WASHER | |
| 15 | 88501612 | 6 | HEX NUT, #10-24 | |
| 16 | 80463011 | 1 | FUSE DECAL, (inside fuse cover) | |
| 17 | 80363034 | 4 | TINNERMAN NUT | |
| 18 | 83683129 | 1 | PLUG | |
| 19 | 80361020 | 1 | LATCH RECEIVER | |
| 20 | 88321030 | 2 | SELF-TAPPING SCREW, #10-24X1/2 | |

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**Figure 6-6 Cab Seat, Upperstructure**



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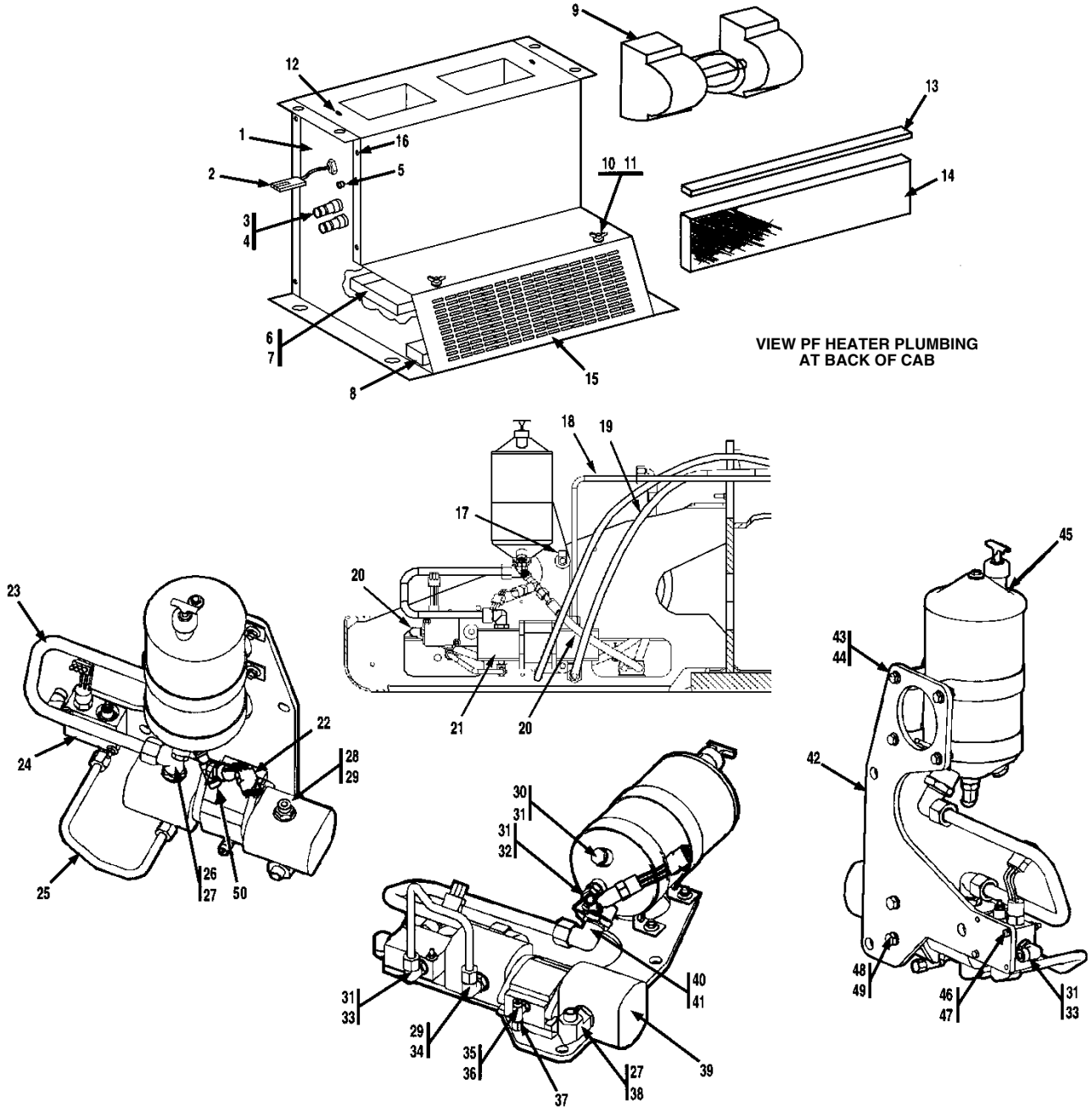
**Figure 6-6 Cab Seat, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80363223 | 1 | CAB SEAT, (includes all items) | |
| 1 | 80264003 | 1 | SEAT BACK COVER | |
| 2 | 80264002 | 1 | SEAT BACK FOAM | |
| 3 | 80264005 | 1 | SEAT BOTTOM COVER | |
| 4 | 80264004 | 1 | SEAT BOTTOM FOAM | |
| 5 | 80364183 | 1 | SEAT FRAME | |
| 6 | 80364184 | 1 | SEAT MOUNTING CHANNEL, R.H. | |
| | 89364185 | 1 | SEAT MOUNTING CHANNEL, L.H. | |
| 7 | 80364186 | 1 | DAMPER KIT | |
| 8 | 80364187 | 1 | WEIGHT ADJUSTER KIT | |
| 9 | 80364188 | 1 | SUSPENSION | |
| 10 | 80364189 | 1 | SEAT BELT BRACKET, R.H. | |
| | 80364190 | 1 | SEAT BELT BRACKET, L.H. | |
| 11 | 80364191 | 1 | SLIDERAIL MOUNTING BRACKET | |
| 12 | 80364192 | 1 | SUSPENSION COVER | |
| 13 | 80264023 | 1 | SLIDERAIL KIT | |

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**Figure 6-7 Cab Heater & Installation, Upperstructure**



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**Figure 6-7 Cab Heater & Installation, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80363125 | 1 | CAB HEATER, (includes items 1 thru 16) | |
| 1 | 80364122 | 1 | CASE ASSY | |
| 2 | 80364124 | 1 | ELECTRONIC HARNESS ASSY | |
| 3 | 80364133 | 1 | CORE ASSY | |
| 4 | 80363109 | AR | CORK TAPE | |
| 5 | 80964013 | 1 | SNAP BUSHING | |
| 6 | 80364126 | 1 | DRAIN PAN | |
| 7 | 80364127 | 1 | DRAIN CAP | |
| 8 | 80964016 | 1 | FILTER | |
| 9 | 80364123 | 1 | BLOWER ASSY | |
| 10 | 80364129 | 1 | COVER ASSY | |
| 11 | 80964020 | 2 | STUD RECEPTACLE | |
| 12 | 80364131 | 2 | HEX NUT, 5/16-18 | |
| 13 | 80964056 | 2 | GASKET | |
| 14 | 80964017 | 1 | ALUMINUM FRAME FILTER | |
| 15 | 80364128 | 1 | INTAKE GRILL | |
| 16 | 80964061 | 8 | HEX HD CAPSCREW | |
| 17 | 85941016 | 1 | SUPPORT CLAMP | |
| 18 | 80333228 | 1 | TUBE ASSY | |
| 19 | 84718809 | 1 | HOSE ASSY | |
| 20 | 84719568 | 2 | HOSE ASSY | |
| 21 | 80435019 | 1 | HYDRAULIC HEATER ASSY, (includes items 23 thru 49) | |
| 22 | 80433185 | 1 | TEMPERATURE SWITCH | |
| 23 | 80433186 | 1 | TUBE ASSY | |
| 24 | | Ref | HEATER MANIFOLD ASSY, (see Figure 9-37 for details) | |
| 25 | 80433187 | 1 | TUBE ASSY | |
| 26 | 88662332 | 1 | ELBOW, 90 DEGREES, (includes item 27) | |
| 27 | 88591207 | 2 | O-RING | |
| 28 | 88662430 | 1 | CONNECTOR, (includes item 29) | |
| 29 | 88591206 | 2 | O-RING | |
| 30 | 88662175 | 1 | HEX HD PLUG, (includes item 31) | |
| 31 | 88591205 | 4 | O-RING | |
| 32 | 88662419 | 1 | ELBOW, 45 DEGREES, (includes item 31) | |
| 33 | 88662330 | 2 | ELBOW, 90 DEGREES, (includes item 31) | |
| 34 | 88662435 | 1 | ELBOW, 90 DEGREES, (includes item 29) | |
| 35 | 88662337 | 1 | BRANCH TEE, (includes item 36) | |
| 36 | 88591202 | 1 | O-RING | |
| 37 | 84714012 | 1 | CAP | |
| 38 | 88662436 | 1 | ELBOW, 90 DEGREES, (includes item 27) | |
| 39 | | Ref | HYDRAULIC HEATER PUMP ASSY, (see Figure 9-29 for details)) | |
| 40 | 88662429 | 1 | ELBOW, 90 DEGREES, (includes item 41) | |
| 41 | 88591209 | 1 | O-RING | |
| 42 | 80301206 | 1 | MOUNTING PLATE | |
| 43 | 77143015 | 4 | WHIZ-LOK NUT, 3/8-16 | |
| 44 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 45 | 80383263 | 1 | RESERVOIR | |
| 46 | 77143013 | 2 | WHIZ-LOK NUT, 1/4-20 | |
| 47 | 88201010 | 2 | HEX HD CAPSCREW, 1/4-20X2-1/4, GR5 | |
| 48 | 83191032 | 2 | HEX HD CAPSCREW, M12-1.75X25, GR8 | |

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**Figure 6-7 Cab Heater & Installation, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 49 | | 2 | LOCKWASHER, M12 | |
| 50 | | 1 | ADAPTER | |

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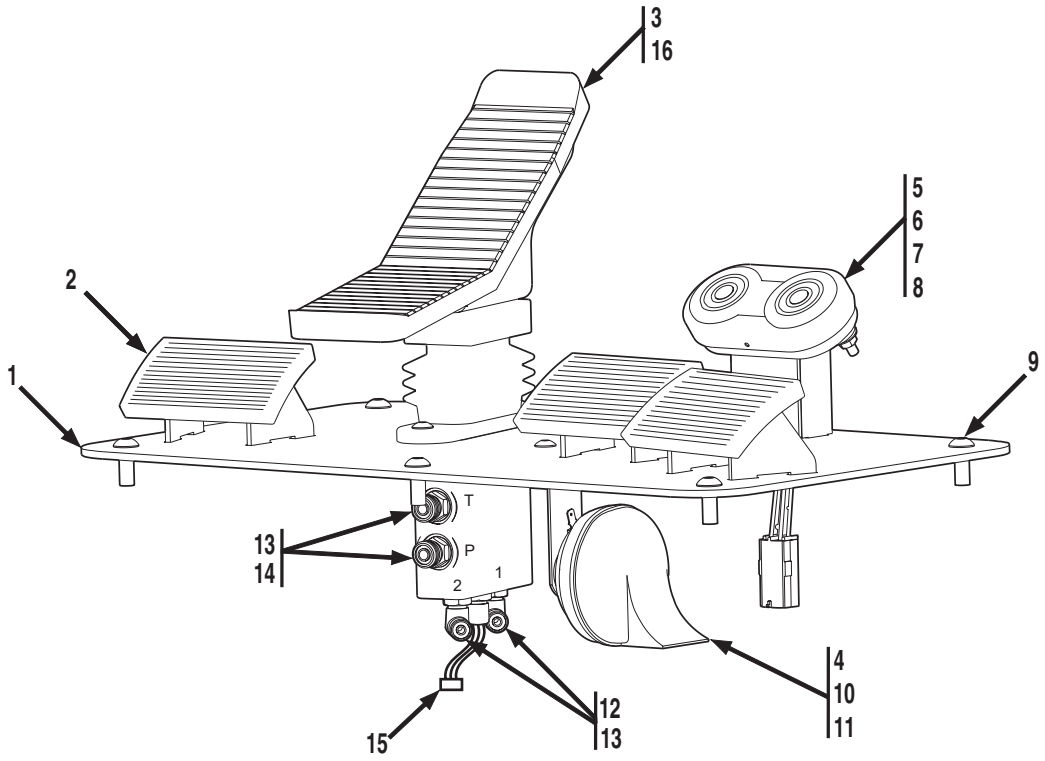
**Figure 6-7 Cab Heater & Installation, Upperstructure (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 6-8 Foot Operated Pedal Plate Assembly, Upperstructure**



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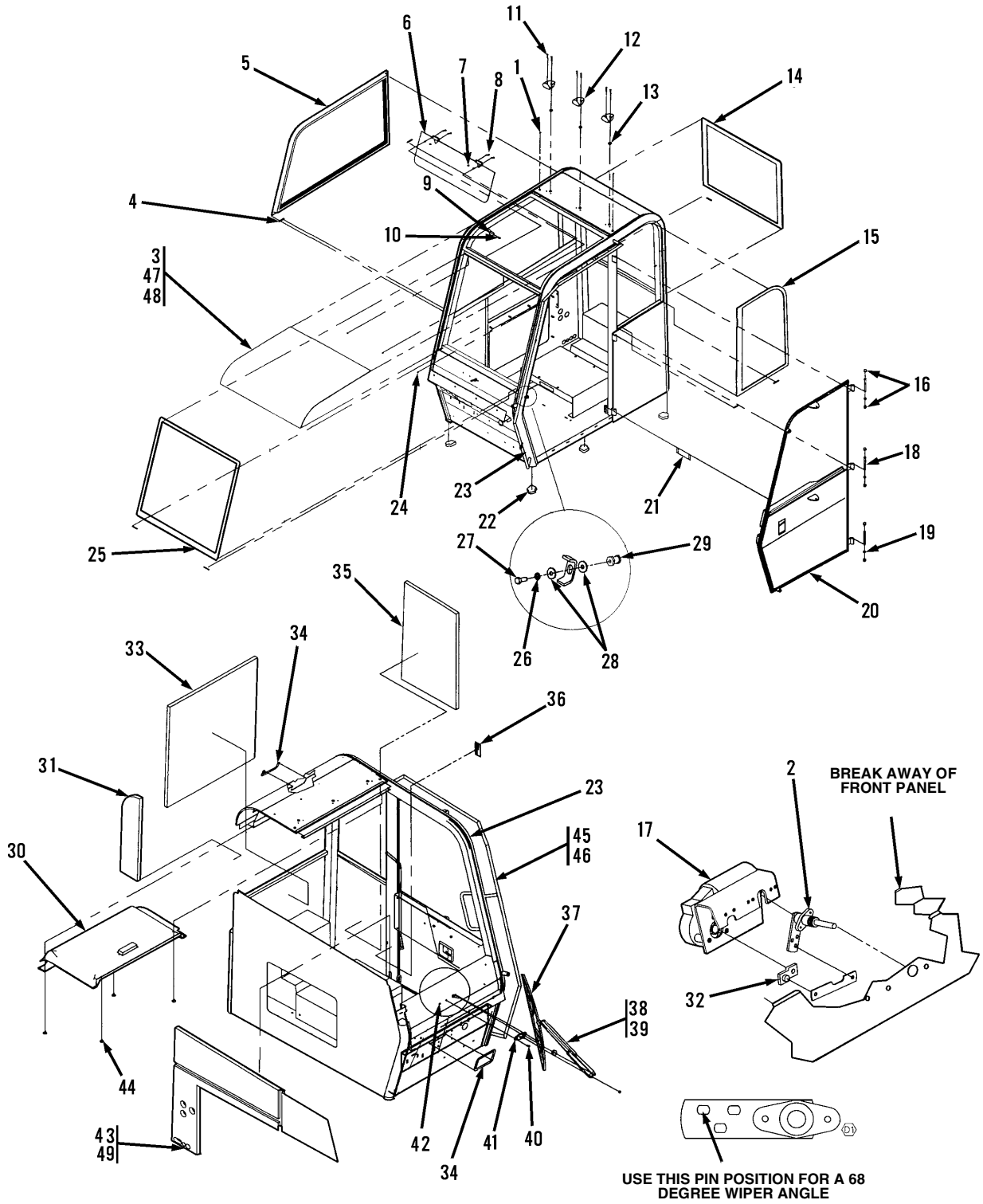
**Figure 6-8 Foot Operated Pedal Plate Assembly, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80366009 | 1 | PEDAL PLATE WELDMENT | |
| 2 | 80263108 | 3 | PEDAL PAD | |
| 3 | 80433128 | Ref | FOOT OPERATED PEDAL VALVE ASSY, (see Figure 7-4 for details) | |
| 4 | 88261024 | 3 | SOCKET BUTTON HD CAPSCREW, 5/16-18X1 | |
| 5 | 80363124 | 1 | FOOT PEDAL SWITCH | |
| 6 | 80361047 | 1 | PEDAL MOUNT PLATE | |
| 7 | 77143013 | 2 | WHIZ-LOK NUT | |
| 8 | 80263012 | 1 | WHIZ-LOK SCREW, 1/4-20X1/2 | |
| 9 | 88261027 | 6 | SOCKET BUTTON HD CAPSCREW, 3/8-16X3/4 | |
| 10 | 91143357 | 1 | HORN | |
| 11 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |
| 12 | 88662489 | 2 | ELBOW, 90 DEGREES, (includes item 13) | |
| 13 | 88591204 | 4 | O-RING | |
| 14 | 88662471 | 2 | CONNECTOR, (includes item 13) | |
| 15 | 80433220 | 1 | PRESSURE SWITCH | |
| 16 | 88201020 | 2 | HEX HD CAPSCREW, 5/16-18X1 | |

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**Figure 6-9 Operators Cab, Undercarriage**



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**Figure 6-9 Operators Cab, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80483094 | 1 | OPERATORS CAB, (includes all items) | |
| 1 | 80384223 | 2 | CAP PLUG | |
| 2 | 80384215 | 1 | WIPER SHAFT | |
| 3 | 80384198 | 1 | SKYLIGHT GLASS | |
| 4 | 80264031 | 8 | BLOCK | |
| 5 | 80384197 | 1 | RIGHT HAND SLIDING WINDOW | |
| 6 | 80384196 | 1 | VISOR | |
| 7 | 80364046 | 4 | INSERT NUT | |
| 8 | 91344024 | 4 | SCREW | |
| 9 | 80384222 | 1 | VISOR CLIP | |
| 10 | 80384221 | 1 | SCREW | |
| 11 | 80384217 | 6 | SCREW | |
| 12 | 80384216 | 1 | CLEARANCE LIGHT | |
| 13 | 80384212 | 3 | GROMMET | |
| 14 | 80364033 | 1 | REAR WINDOW | |
| 15 | 80364030 | 1 | LEFT HAND WINDOW | |
| 16 | 80364004 | 6 | SCREW | |
| 17 | 80384204 | 1 | WIPER MOTOR | |
| 18 | 80384205 | 3 | BOLT | |
| 19 | 80364006 | 3 | NUT | |
| 20 | | Ref | DOOR ASSY, (see Figure 6-10 for details) | |
| 21 | 80384218 | 1 | STRAP | |
| 22 | 80384220 | 4 | PLUG | |
| 23 | 80384194 | 1 | CAB CHASSIS | |
| 24 | 80384208 | 3 | PLUG | |
| 25 | 80384199 | 1 | FRONT GLASS | |
| 26 | 80364021 | 1 | LOCKWASHER | |
| 27 | 91334024 | 1 | HEX BOLT | |
| 28 | 91344042 | 2 | WASHER | |
| 29 | 80364023 | 1 | STRIKER BOLT | |
| 30 | 80384195 | 1 | HEADLINER ASSY | |
| 31 | 80384219 | 1 | RIGHT REAR FOAM | |
| 32 | 80384203 | 1 | WIPER DRIVE ARM | |
| 33 | 80364034 | 1 | REAR FOAM | |
| 34 | 80384209 | 1 | TRIM | |
| 35 | 80384202 | 1 | LEFT FOAM | |
| 36 | 80384200 | 1 | SERIAL TAG | |
| 37 | 80384213 | 1 | WIPER BLADE | |
| 38 | 80384210 | 1 | ADAPTER ARM | |
| 39 | 91334023 | 1 | WIPER ARM | |
| 40 | 80384207 | 2 | SCREW | |
| 41 | 80384214 | 1 | ADAPTER KIT | |
| 42 | 80384206 | 1 | ADAPTER ARM | |
| 43 | 80384201 | 1 | RIGHT FOAM | |
| 44 | 80364052 | 4 | FASTENER | |
| 45 | 80384342 | 1 | HANDRAIL | |
| 46 | 80384343 | 1 | PEDESTAL | |
| 47 | 91164090 | 1 | URETHANE | |
| 48 | 91164089 | 1 | CLEANER | |

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**Figure 6-9 Operators Cab, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 49 | 91344046 | 1 | ADHESIVE | |

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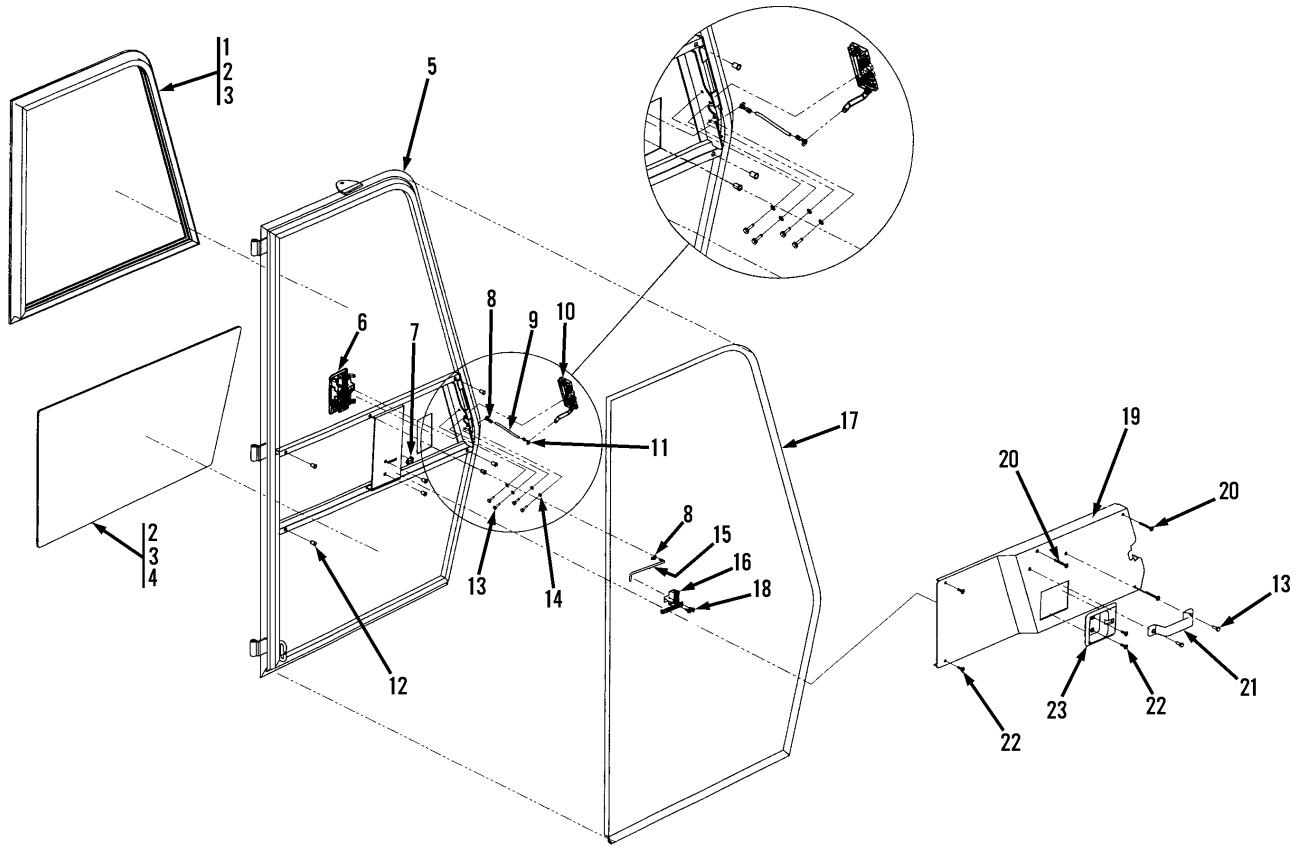
**Figure 6-9 Operators Cab, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 6-10 Cab Door, Undercarriage**



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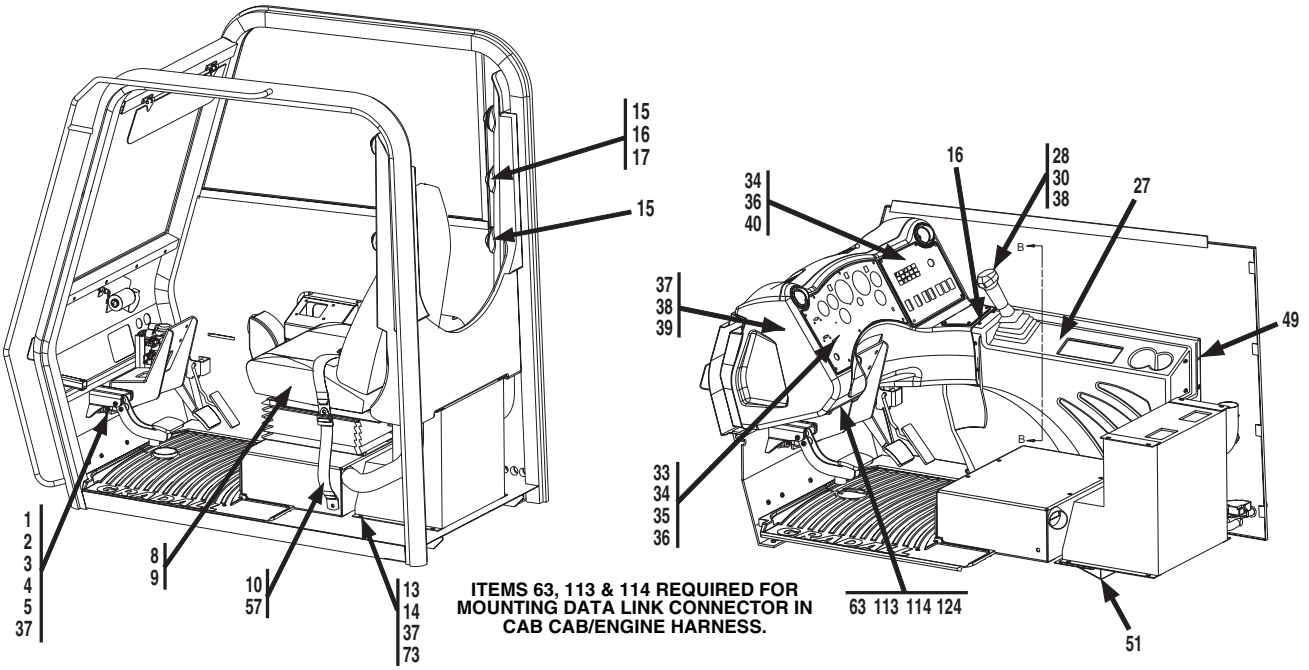
**Figure 6-10 Cab Door, Undercarriage**

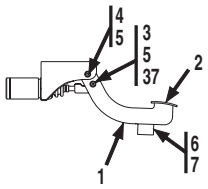
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384176 | 1 | CAB DOOR ASSY, (includes all items) | |
| 1 | 80384178 | 1 | SLIDING WINDOW, DOOR | |
| 2 | 80364009 | AR | URETHANE | |
| 3 | 91484005 | AR | CLEANER | |
| 4 | 80384180 | 1 | LOWER DOOR WINDOW | |
| 5 | 80384177 | 1 | DOOR WELDMENT | |
| 6 | 80384184 | 1 | PADDLE LATCH, (includes key) | |
| 7 | 80384179 | 1 | WELDNUT BRACKET | |
| 8 | 80384187 | 1 | CLIP | |
| 9 | 80384182 | 1 | ROD | |
| 10 | 80384186 | 1 | CAM LATCH | |
| 11 | 80384185 | 1 | CLIP | |
| 12 | 80364046 | 7 | INSERT NUT, 1/4-20 | |
| 13 | 80384189 | 6 | SCREW, 1/4-20X3/4 | |
| 14 | 80384190 | 4 | WASHER | |
| 15 | 80384183 | 1 | ROD | |
| 16 | 80384192 | 1 | HANDLE | |
| 17 | 80364001 | 14.75 | SEAL | |
| 18 | 80384191 | 2 | SCREW, #10-24X1/2 | |
| 19 | 80384181 | 1 | DOOR COVER WELDMENT | |
| 20 | 80264081 | 3 | SCREW, 1/4-20X2 | |
| 21 | 80384188 | 1 | HANDLE, RUBBER | |
| 22 | 80264053 | 4 | TORX HD SCREW, 1/4-20X3/4, GR5 | |
| 23 | 80384193 | 1 | INSIDE DOOR BEZEL | |
| 24 | 80384318 | 1 | NYLON STRAP, (not illustrated) | |

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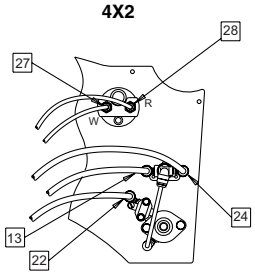


**Figure 6-11 Cab Interior Components, Undercarriage**

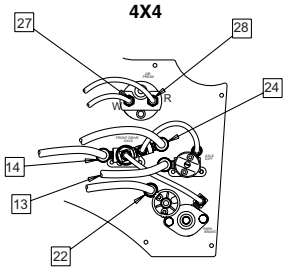


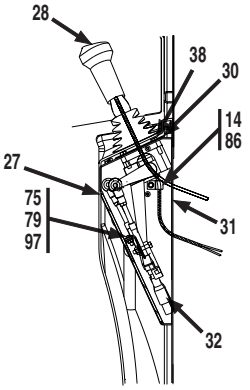




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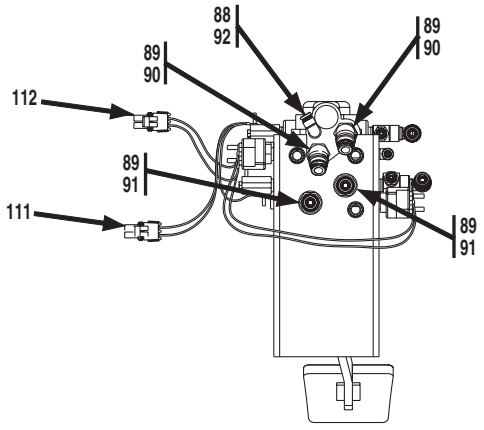


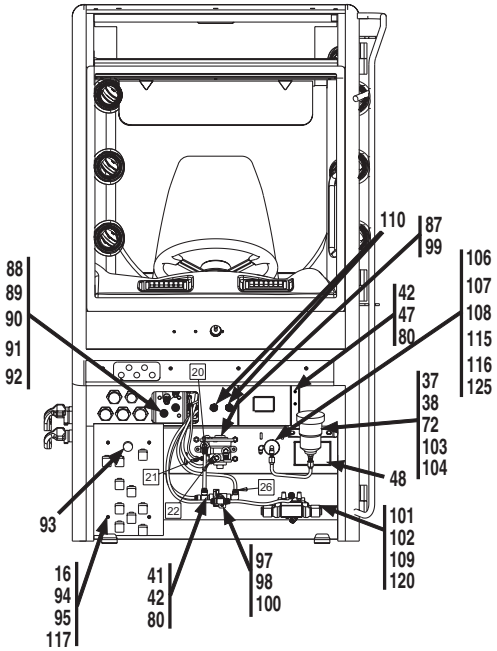

4X4




VIEW B-B



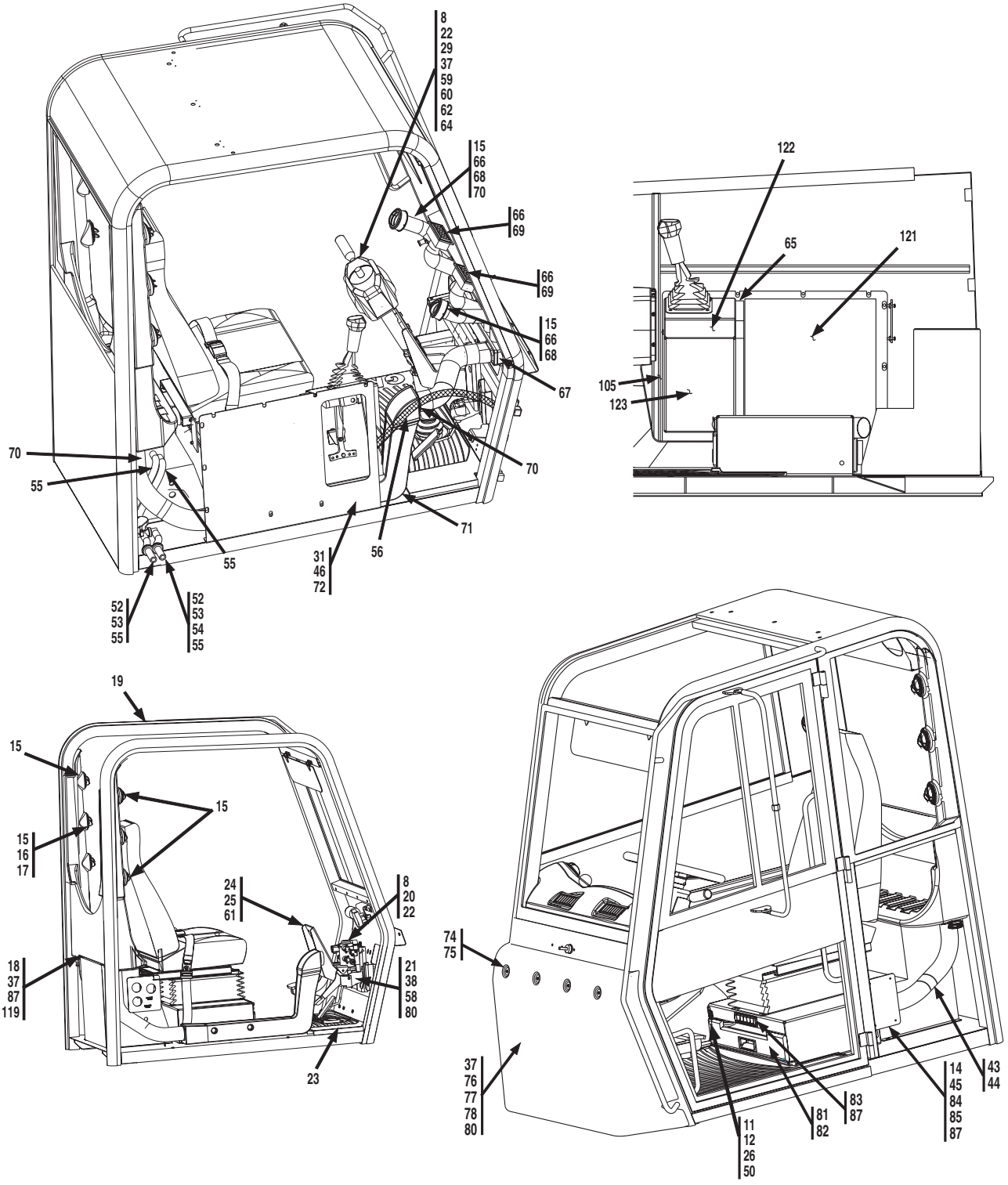




NOTE: NYLON WASHER, (item 117), TO BE PLACED ON EACH SIDE OF PRINTED CIRCUIT BOARD, (item 94). SEE FIGURE 10-7 FOR THE DETAILED LAYOUT OF CIRCUIT BOARD.

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**Figure 6-11 Cab Interior Components, Undercarriage (Continued)**



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**Figure 6-11 Cab Interior Components, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80386020 | 1 | CLUTCH PEDAL WELDMENT | |
| 2 | 80263108 | 1 | PEDAL PAD | |
| 3 | 88251023 | 1 | HEX SOCKET SHOULDER SCREW, 3/8X1-1/2, (10-24 thread) | |
| 4 | 88251029 | 1 | HEX SOCKET SHOULDER SCREW, 3/8X3, (10-24 thread) | |
| 5 | 88521205 | 3 | HEX LOCKNUT, 5/16-18 | |
| 6 | 83683516 | 1 | RUBBER STOP | |
| 7 | 77143015 | 1 | WHIZ-LOK NUT, 3/8-16 | |
| 8 | 88201035 | 11 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 9 | | Ref | CAB SEAT, (see Figure 6-6 for details) | |
| 10 | 86883173 | 1 | SEAT BELT | |
| 11 | 80381298 | 1 | DRAWER LATCH | |
| 12 | 88204912 | 1 | HEX HD CAPSCREW, 1/4-20X1, GR5 | |
| 13 | | Ref | CAB HEATER, (see Figure 6-14 for details) | |
| 14 | 80263012 | 11 | WHIZ-LOK SCREW, 1/4-20X1/2 | |
| 15 | 80363106 | 8 | AIR DIFFUSER VENT | |
| 16 | 88521304 | 14 | HEX LOCKNUT, 1/4-20 | |
| 17 | 91083533 | 2 | FENDER WASHER, 5/16 | |
| 18 | 80383369 | 1 | PLENUM | |
| 19 | 80483094 | 1 | CHASSIS CAB WELDMENT | |
| 20 | | Ref | BRAKE PEDAL ASSY, (see Figure 4-16 for details) | |
| 21 | 80383076 | 1 | MORSE THROTTLE, **(4X2 Before S/N 3120021)**, **(4X4 Before S/N 3140118)** | |
| | 80383410 | 1 | THROTTLE PEDAL, **(4X2 S/N 3120021 & After)**, **(4X4 S/N 3140118 & After)** | |
| 22 | 88551011 | 7 | LOCKWASHER, 3/8 | |
| 23 | 80383266 | 1 | FLOOR MAT | |
| 24 | 80386037 | 1 | COLUMN MOUNT WELDMENT | |
| 25 | 80973025 | 3 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 26 | 85051317 | 1 | FLAT WASHER, 1/4 | |
| 27 | 80383083 | 1 | CHASSIS CONSOLE | |
| 28 | 80383225 | 1 | CAB SHIFTER | |
| 29 | 88201039 | 1 | HEX HD CAPSCREW, 3/8-16X2, GR5 | |
| 30 | 80381243 | 1 | BOOT PLATE | |
| 31 | 80386029 | 1 | SHIFTER MOUNT | |
| 32 | 80483131 | 2 | SHIFTER CABLE | |
| 33 | | Ref | DASH PANEL ASSY, (4X2), (see Figure 7-5 for details) | |
| 34 | 80363033 | 13 | FLAT HD SCREW | |
| 35 | | Ref | DASH PANEL ASSY, (4X4), (see Figure 7-5 for details) | |
| 36 | 80363034 | 13 | TIMMERMAN NUT | |
| 37 | 88561003 | 27 | FLAT WASHER, 5/16 | |
| 38 | 88201020 | 14 | HEX HD CAPSCREW, 5/16-18X1, GR5 | |
| 39 | 80483072 | 1 | CHASSIS DASH | |
| 40 | | Ref | DASH PANEL ASSY, R.H., (see Figure 7-5 for details) | |
| 41 | 80481110 | 1 | BULKHEAD PLATE | |
| 42 | 88201018 | 4 | HEX HD CAPSCREW, 5/16-18X3/4, GR5 | |
| 43 | 84231107 | 2 | HOSE CLAMP | |
| 44 | | AR | FLEX DUCT HOSE | |
| 45 | 82033997 | 150” | HOSE | |
| 46 | 77143003 | 3 | WHIZ-LOK SCREW, 5/16-18X5/8 | |
| 47 | 80481112 | 1 | ENGINE VCU MOUNT | |

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**Figure 6-11 Cab Interior Components, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 48 | 80483119 | 1 | CIRCUIT BOARD DECAL, **(4X2 Before S/N 3120147)**, **(4X4 Before S/N 3140041)** | |
| | 80483171 | 1 | CIRCUIT BOARD DECAL, **(4X2 S/N 3120147 & After)**, **(4X4 S/N 3140041 & After)** | |
| 49 | 88261018 | 6 | BUTTON HD CAPSCREW, 1/4-20X1 | |
| 50 | 24921134 | 1 | RIVNUT | |
| 51 | 80381150 | 1 | HEATER INTAKE COVER | |
| 52 | 86561279 | 2 | GROMMET | |
| 53 | 86671187 | 6 | HOSE CLAMP | |
| 54 | 80383231 | 1 | HEATER CONTROL VALVE | |
| 55 | | AR | HEATER HOSE, 5/8 | |
| 56 | 80483081 | 1 | CHASSIS CAB HARNESS | |
| | 80483218 | 1 | CHASSIS CAB HARNESS, **(S/N 0210017485 Only)** | |
| 57 | 88501307 | 2 | HEX NUT, 7/16-20 | |
| 58 | 80383411 | 1 | INTERFACE HARNESS | |
| 59 | 80383056 | 1 | STEERING COLUMN | |
| 60 | 80383051 | 1 | STEERING SHAFT | |
| 61 | 80973096 | 1 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 62 | 77383198 | 1 | STEERING COLUMN BOOT | |
| 63 | 88301056 | 4 | ROUND HD MACHINE SCREW, #6-32X5/8 | |
| 64 | 88521006 | 1 | HEX LOCKNUT, 3/8-16 | |
| 65 | 80483146 | 1 | SHIFTER L.H. SOUND PROOFING | |
| 66 | 83664133 | 4 | TY-RAP | |
| 67 | 01043892 | 3 | TY-RAP | |
| 68 | 91403596 | 2 | VENT REDUCER | |
| 69 | 91403538 | 2 | DEFROST VENT | |
| 70 | 90027187 | 10 | TY-RAP | |
| 71 | 80383370 | 1 | AIR DELIVERY DUCT KIT | |
| 72 | 77143006 | 11 | WHIZ-LOK NUT, 5/16-18 | |
| 73 | 85941017 | 2 | CLAMP, 15/16 | |
| 74 | 88201007 | 4 | HEX HD CAPSCREW, 1/4-20X1-1/2, GR5 | |
| 75 | 88561002 | 6 | FLAT WASHER, 1/4 | |
| 76 | 80483111 | 1 | FRONT CAB COVER | |
| 77 | 80381241 | 2 | CAB COVER MOUNT | |
| 78 | 88201021 | 4 | HEX HD CAPSCREW, 5/16-18X1-1/4, GR5 | |
| 79 | 80381419 | 1 | MOUNT BRACKET SHIFTER | |
| 80 | 88551010 | 10 | LOCKWASHER, 5/16 | |
| 81 | 80363059 | 1 | DRAWER | |
| 82 | 80363060 | 1 | LATCH | |
| 83 | 80963136 | 1 | VENT | |
| 84 | 80381234 | 1 | WIPER BOTTLE MOUNT | |
| 85 | 83683085 | 1 | WASHER BOTTLE ASSY | |
| 86 | 85941016 | 1 | SUPPORT CLAMP | |
| 87 | 77143013 | 10 | WHIZ-LOK NUT, 1/4-20 | |
| 88 | 80383277 | 1 | TUBE FITTING | |
| 89 | 80383215 | 4 | REDUCING BUSHING, 1/2X3/8 | |
| 90 | 80383167 | 2 | TUBE FITTING, 90 DEGREES, 3/8X3/8 TUBE | |
| 91 | 80383142 | 2 | TUBE FITTING, STRAIGHT, 3/8X3/8 TUBE | |
| 92 | 80383151 | 1 | TUBE FITTING, 90 DEGREES, 1/8X1/4 TUBE | |

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**Figure 6-11 Cab Interior Components, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 93 | 80383248 | 1 | FLASHER | |
| 94 | 80483063 | 1 | PRINTED CIRCUIT BOARD ASSY, **(4X2 Before S/N 3120147)**, **(4X4 Before S/N 3140041)**, (see Figure 10-7 for details) | |
| | 80483172 | 1 | PRINTED CIRCUIT BOARD ASSY, **(4X2 S/N 3120147 & After)**, **(4X2 S/N 3140041 & After)**, (see Figure 10-7 for details)Figure 10-7 | |
| 95 | 80383232 | 4 | CIRCUIT BOARD MOUNT | |
| 96 | 88201022 | 1 | HEX HD CAPSCREW, 5/16-18X1-1/2, GR5 | |
| 97 | 88201003 | 3 | HEX HD CAPSCREW, 1/4-20X3/4, GR5 | |
| 98 | 88551009 | 1 | LOCKWASHER, 1/4 | |
| 99 | | Ref | SPRING BRAKE CONTROL VALVE ASSY, (see Figure 4-10 for details) | |
| 100 | | Ref | DOUBLE CHECK VALVE ASSY, (see Figure 4-13 for details) | |
| 101 | 88211032 | 2 | SOCKET HD CAPSCREW, #10-24X1 | |
| 102 | 88551007 | 2 | LOCKWASHER, #10 | |
| 103 | 80383013 | 1 | CLUTCH RESERVOIR | |
| 104 | 80383227 | 1 | TUBE ASSY | |
| 105 | 80483147 | 1 | SHIFTER L.H. SOUND PROOFING | |
| 106 | 80383066 | 1 | CLUTCH CYLINDER, (includes item 125) | |
| 107 | 88743057 | 1 | MALE ELBOW, 90 DEGREES, 1/8X3/8 | |
| 108 | 88743041 | 1 | MALE ELBOW, 90 DEGREES, 1/4X3/8 | |
| 109 | | Ref | AIR VALVE ASSY, (see Figure 4-12 for details) | |
| 110 | 80383279 | 2 | BULKHEAD FITTING, 3/8 | |
| 111 | 80383094 | 1 | LOW AIR SWITCH JUMPER | |
| 112 | 80383095 | 1 | BRAKE SWITCH JUMPER | |
| 113 | 88561103 | 4 | FLAT WASHER, #6 | |
| 114 | 88501608 | 4 | HEX NUT, #6-32 | |
| 115 | 80333190 | 1 | BLEED ADAPTER, 1/4 | |
| 116 | 80333192 | 1 | ELBOW, 90 DEGREES, 1/8X1/4 | |
| 117 | 80383358 | 8 | NYLON WASHER | |
| 118 | 80363168 | 1 | OVERLAY KIT | |
| 119 | 90200755 | AR | GASKA-TAPE | |
| 120 | 88561105 | 2 | FLATWASHER, #10 | |
| 121 | 80483143 | 1 | CAB SOUND PROOFING PANEL | |
| 122 | 80483144 | 1 | SHIFTER PLATE COVER | |
| 123 | 80483145 | 1 | SHIFTER SOUND PROOFING | |
| 124 | 80481111 | 1 | DIAGNOSTIC MOUNTING PLATE | |
| 125 | 80384419 | 1 | PUSH ROD | |

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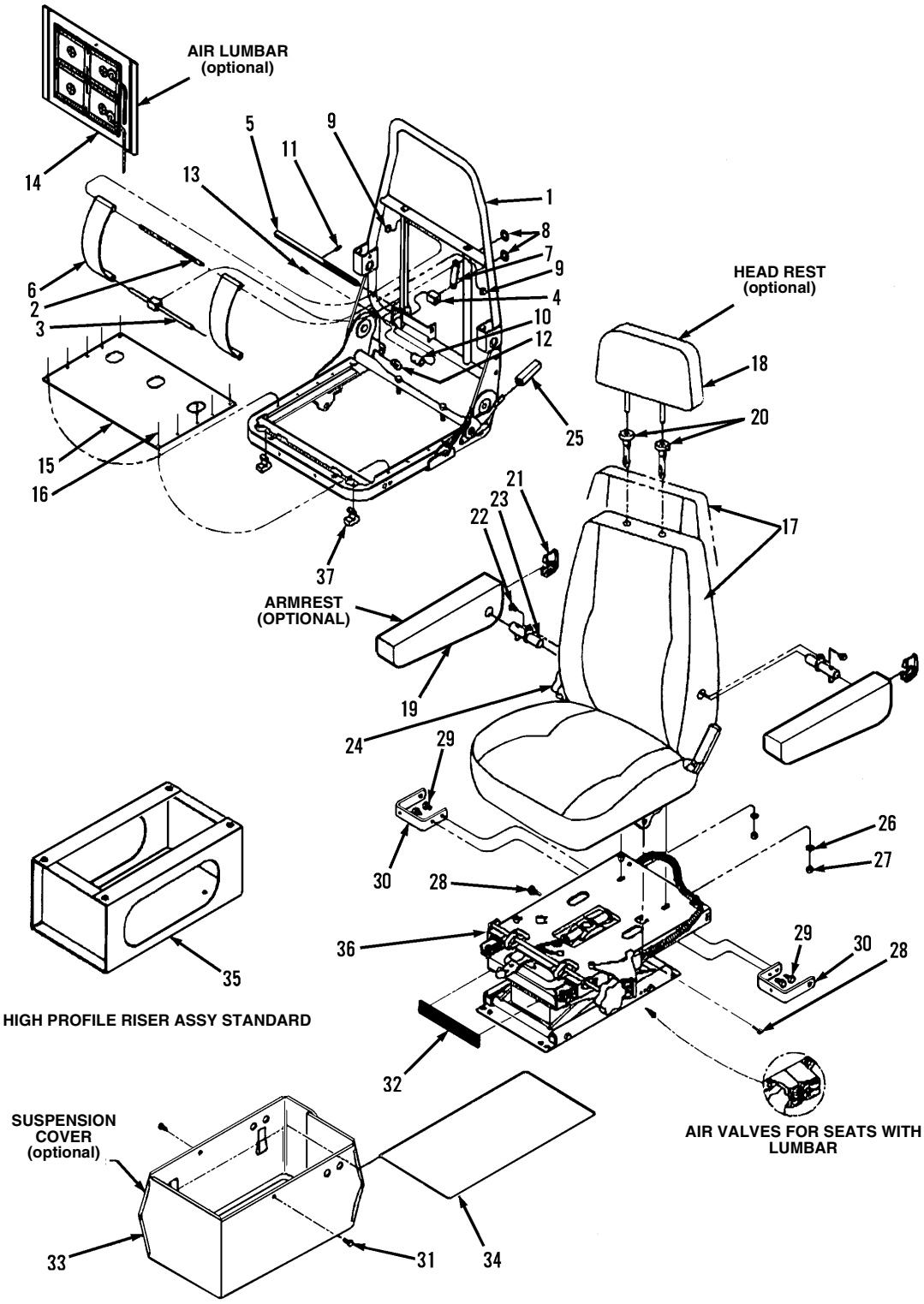
**Figure 6-11 Cab Interior Components, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 6-12 Cab Seat, Undercarriage**



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**Figure 6-12 Cab Seat, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384401 | 1 | REPLACEMENT SEAT BASE ASSY, (includes bottom pad, cover & base plate) | |
| 1 | 80384050 | 1 | FRAME ASSY, (high back w/lumbar) | |
| | 80384051 | 1 | FRAME ASSY, (mid back w/lumbar) | |
| | 80384052 | 1 | FRAME ASSY, (high back) | |
| | 80384053 | 1 | FRAME ASSY, (mid back) | |
| | 80384054 | 1 | FRAME ASSY, (w/headrest) | |
| | 80384055 | 1 | FRAME ASSY, (w/headrest & lumbar) | |
| 2 | | 1 | LUMBAR SUPPORT SHAFT | |
| 3 | | 1 | LUMBAR SLIDE SHAFT | |
| 4 | | 1 | LUMBAR ADJUSTING BLOCK | |
| 5 | | 1 | LUMBAR ADJUSTING SHAFT | |
| 6 | | 2 | LUMBAR SPRING | |
| 7 | | 1 | LUMBAR LINKAGE | |
| 8 | | 2 | PUSH NUT, 3/8 | |
| 9 | | 2 | PUSH NUT, 5/16 | |
| 10 | | 1 | SPACER | |
| 11 | | 1 | ROLL PIN | |
| 12 | | 1 | STOP BLOCK | |
| 13 | | 1 | SCREW, #10-32 | |
| 14 | | 1 | LUMBAR BLADDER | |
| 15 | | 1 | PAN | |
| 16 | | 10 | RIVET | |
| 17 | | 1 | UPPER COVER KIT | |
| 18 | | 1 | HEADREST ASSY | |
| 19 | | 2 | ARMREST ASSY | |
| 20 | 80384060 | 2 | GROMMET | |
| 21 | | 1 | INSERT | |
| 22 | | 1 | HEX TAP SCREW, 5/16X1/2 | |
| 23 | | 1 | ARMREST SHAFT, (lubricate & torque to 18-22 lb-ft) | |
| 24 | 80384063 | 1 | LUMBAR KNOB | |
| 25 | 80384064 | 1 | RECLINER HANDLE | |
| 26 | | 2 | FLAT WASHER | |
| 27 | | 2 | HEX NUT, M8-1.25 | |
| 28 | | 2 | SHOULDER BOLT, M8, (lubricate & torque to 18-22 lb-ft) | |
| 29 | | 4 | CAPSCREW, M8, (lubricate & torque to 18-22 lb-ft) | |
| 30 | | 2 | ICP BRACKET | |
| 31 | | 2 | FASTENER | |
| 32 | | 1 | VELCRO | |
| 33 | | 1 | SUSPENSION COVER | |
| 34 | | 1 | WIRE | |
| 35 | 80384068 | 12 | SEAT RISER | |
| 36 | | Ref | SEAT SUSPENSION, (see Figure 6-13 for details) | |
| 37 | | 2 | LONG SLIDE BLOCK, (see Figure 6-13, item #31 for details) | |
| | 80384056 | 1 | LUMBAR KIT, (includes items 2 thru 11) | |
| | 80384057 | 1 | BACK RESTRICTION KIT, (includes items 12 & 13) | |
| | 80384058 | 1 | LUMBAR KIT, (includes item 14) | |
| | 80384059 | 1 | PAN SUPPORT KIT, (includes items 15 thru 19) | |

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**Figure 6-12 Cab Seat, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384061 | 1 | ARMREST INSERT KIT, (includes item 21) | |
| | 80384062 | 1 | ARMREST BRACKET KIT, (includes items 22 & 23) | |
| | 80384065 | 1 | FASTENER MOUNT KIT, (includes items 26 thru 28) | |
| | 80384066 | 1 | ICP BRACKET KIT, (includes items 29 & 30) | |
| | 80384067 | 1 | SUSPENSION COVER KIT, (includes items 31 thru 34) | |

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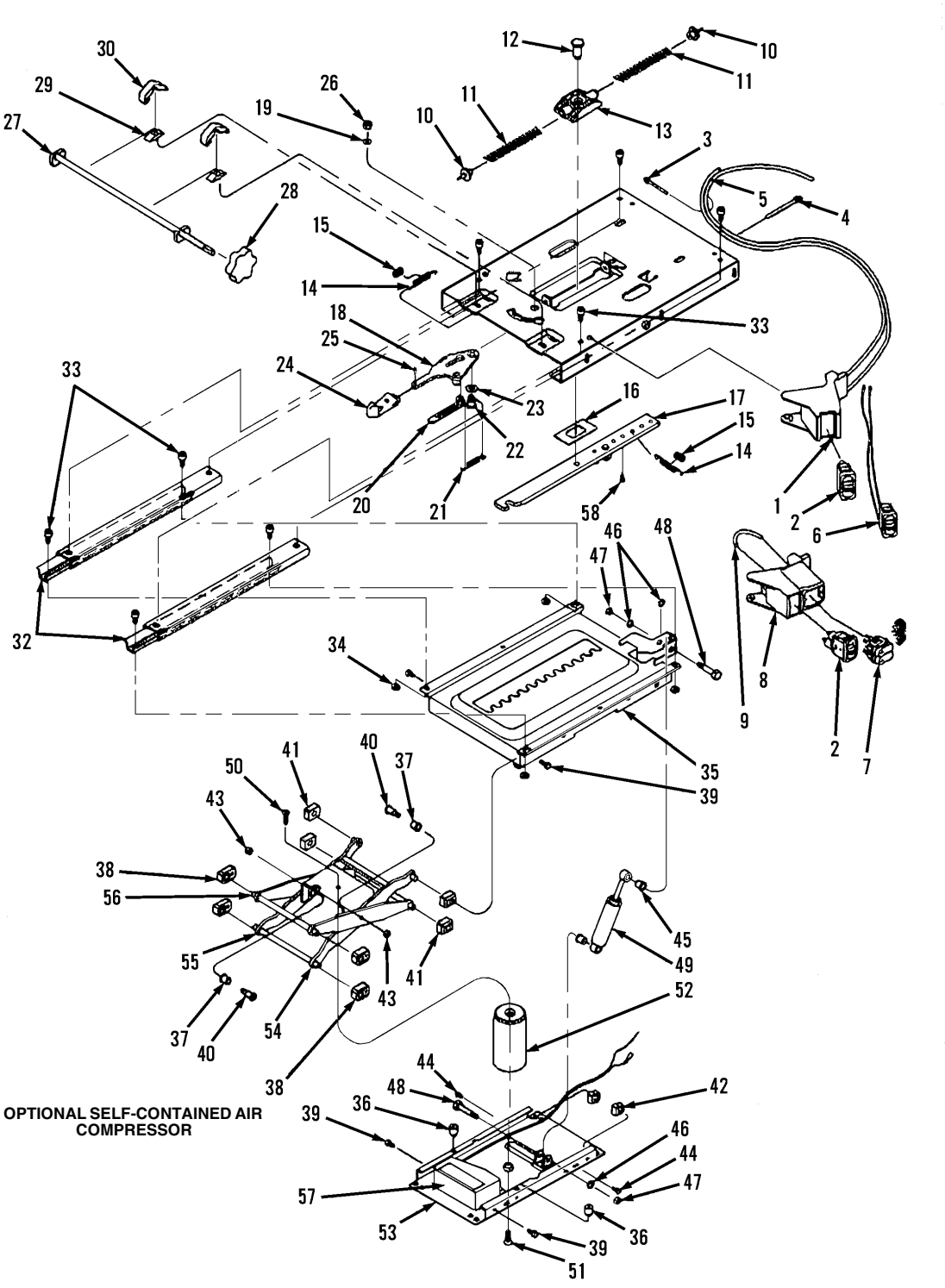
**Figure 6-12 Cab Seat, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 6-13 Cab Seat Suspension, Undercarriage**



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**Figure 6-13 Cab Seat Suspension, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384074 | 1 | SEAT TILT REPLACEMENT, (includes items 27 thru 31) | |
| | 80384076 | 1 | ISOLATOR ASSY, (includes items 10 thru 17, 18 thru 26 & 32 thru 35) | |
| 1 | | 1 | VALVE MOUNTING POD | |
| 2 | | 1 | AIR VALVE, (height control) | |
| 3 | | 3 | TY-RAP, 3” | |
| 4 | | 1 | TY-RAP, 6” | |
| 5 | | 7.5’ | NYLON TUBING, 1/4 | |
| 6 | | 1 | AIR VLAVE, SC, (height control) | |
| 7 | | 1 | LUMBAR VALVE | |
| 8 | | 1 | VALVE MOUNTING POD | |
| 9 | | 1 | JUMPER LOOP | |
| 10 | | 2 | RUBBER BUMPER | |
| 11 | | 2 | ISOLATOR SPRING | |
| 12 | | 1 | SHOULDER BOLT, M10, (lubricate & torque to 26-34 lb-ft) | |
| 13 | | 1 | PIVOT BLOCK ASSY | |
| 14 | | 2 | LATCH SPRING | |
| 15 | | 2 | SPLIT POLY LOOM | |
| 16 | | 1 | SPACER | |
| 17 | | 1 | LATCH BAR | |
| 18 | | 1 | CONTROL HANDLE | |
| 19 | | 1 | FLAT WASHER | |
| 20 | | 1 | DETENT PIN ASSY | |
| 21 | | 1 | LOCKOUT SPRING | |
| 22 | | 1 | HEX HD SHOULDER BOLT | |
| 23 | | 1 | BELLEVILLE WASHER | |
| 24 | | 1 | ISOLATOR KNOB | |
| 25 | | 1 | POP RIVET | |
| 26 | | 1 | HEX NUT, M8X1.25, (lubricate & torque to 11.7-14.3 lb-ft) | |
| 27 | | 1 | TIE ROD WELDMENT | |
| 28 | | 1 | TILT KNOB | |
| 29 | | 2 | TILT ROD BRACKET | |
| 30 | | 2 | TILT ROD BRACKET | |
| 31 | | 2 | LONG SLIDE BLOCK, (see Figure 6-12, item 37 for details), (not shown) | |
| 32 | | 2 | SLIDE RAIL | |
| 33 | | 8 | SOCKET HD CAPSCREW, M8, (lubricate & torque to 16.2-19.8 lb-ft) | |
| 34 | | 4 | HEX NUT, M8 | |
| 35 | 80384077 | 1 | UPPER PLATE | |
| 36 | | 2 | RUBBER BUMPER | |
| 37 | | 2 | BEARING LUBE | |
| 38 | | 4 | BEARING BLOCK | |
| 39 | | 4 | CAPSCREW, M8, (lubricate & torque to 22.5-27.5 lb-ft) | |
| 40 | | 2 | SHOULDER BOLT, M8 | |
| 41 | | 4 | SLIDE BLOCK | |
| 42 | | 2 | STOP BLOCK ASSY | |
| 43 | | 2 | HEX NUT, M8, (lubricate & torque to 16.2-19.8 lb-ft) | |
| 44 | | 2 | CAPSCREW, M8 | |
| 45 | | 2 | BEARING MULTILUBE | |
| 46 | | 2 | FLAT WASHER | |
| 47 | | 2 | HEX NUT, M8 | |

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**Figure 6-13 Cab Seat Suspension, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 48 | | 2 | SHOULDER BOLT, M8 | |
| 49 | | 1 | STANDARD DAMPER | |
| 50 | | 1 | SCREW, M8, (lubricate & torque to 7-9 lb-ft) | |
| 51 | | 1 | FLAT HD SCREW, M8, (lubricate & torque to 2-4 lb-ft) | |
| 52 | | 1 | AIR SPRING ASSY | |
| 53 | | 1 | LOWER BASE ASSY | |
| 54 | | 1 | LEVER ASSY, (includes items 55 & 56) | |
| 55 | | 1 | INNER LEVER | |
| 56 | | 1 | OUTER LEVER | |
| 57 | | 1 | COMPRESSOR KIT, (sc only) | |
| 58 | 80384087 | 1 | RESTRICTOR SCREW | |
| | 80384069 | 1 | AIR VALVE KIT, (includes items 1 thru 5) | |
| | 80384070 | 1 | SC AIR VALVE KIT, (includes items 1, 3, 4 & 6), (SC only) | |
| | 80384071 | 1 | AIR VALVE KIT w/AIR LUMBAR, (includes items 7 thru 9) | |
| | 80384072 | 1 | ISOLATOR SPRING KIT, (includes items 10 thru 17) | |
| | 80384073 | 1 | CONTROL HANDLE KIT, (includes items 18 thru 26) | |
| | 80384075 | 1 | SLIDE RAIL KIT, (includes items 32 thru 34) | |
| | 80384078 | 1 | SUSPENSION HARDWARE KIT, (includes items 36 thru 44) | |
| | 80384079 | 1 | DAMPER KIT, (includes items 45 thru 49), (for heavy-duty damper kit, order 86684008) | |
| | 80384080 | 1 | AIR SPRING KIT, (includes items 50 thru 52) | |

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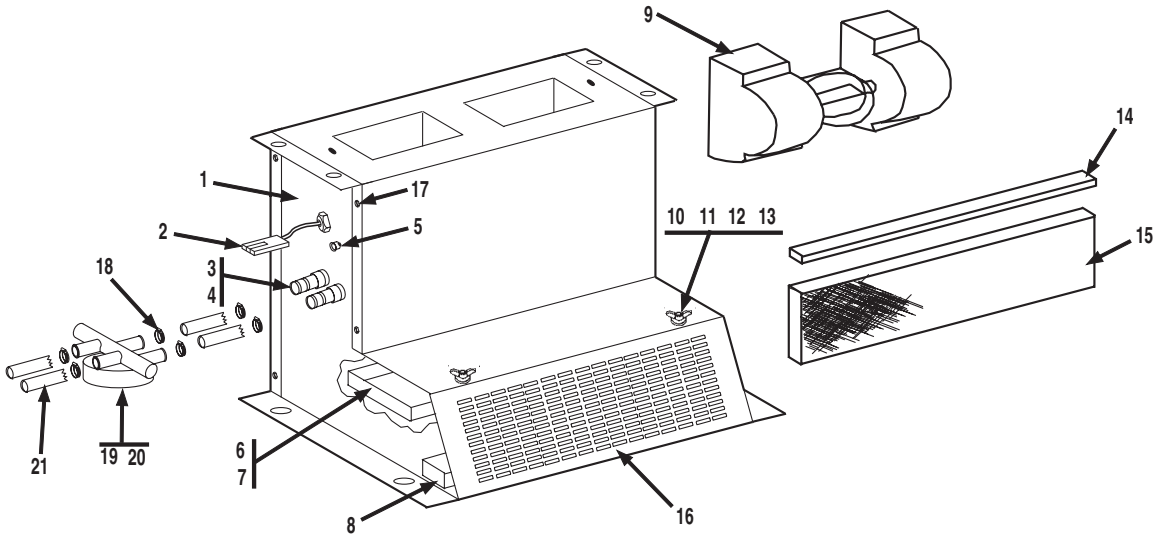
**Figure 6-13 Cab Seat Suspension, Undercarriage (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 6-14 Heater & Defroster, Undercarriage**



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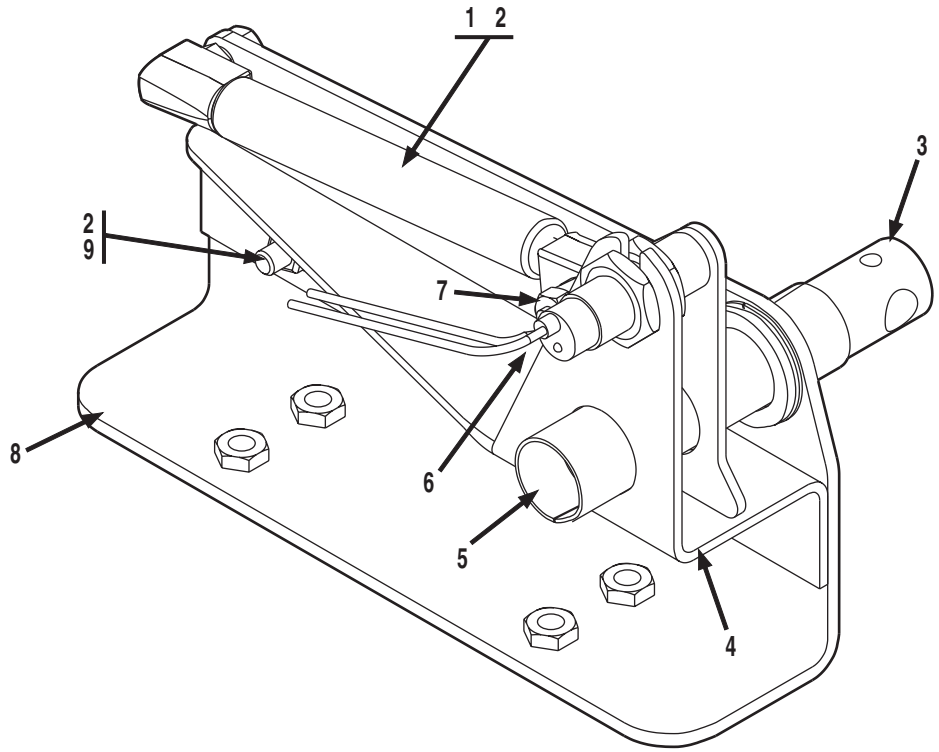
**Figure 6-14 Heater & Defroster, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80363011 | 1 | HEATER ASSY, (includes all items) | |
| 1 | 80364132 | 1 | CASE ASSY | |
| 2 | 80364124 | 1 | ELECTRONIC HARNESS ASSY | |
| 3 | 80364133 | 1 | CORE ASSY | |
| 4 | 80363109 | AR | CORK TAPE | |
| 5 | 80964013 | 1 | SNAP BUSHING | |
| 6 | 80364126 | 1 | DRAIN PAN | |
| 7 | 80364127 | 1 | DRAIN CAP | |
| 8 | 80964016 | 1 | FILTER | |
| 9 | 80364123 | 1 | BLOWER ASSY | |
| 10 | 80964060 | 2 | WING STUD | |
| 11 | 80964057 | 2 | STUD RETAINER | |
| 12 | 80964059 | 2 | STUD EJECTOR SPRING | |
| 13 | 80964020 | 2 | STUD RECEPTACLE | |
| 14 | 80964019 | 1 | GASKET | |
| 15 | 80964017 | 1 | ALUMINUM FRAME FILTER | |
| 16 | 80364134 | 1 | COVER ASSY | |
| 17 | 80964061 | 8 | HEX HD SCREW | |
| 18 | 86971172 | 6 | HOSE CLAMP | |
| 19 | 86561279 | 2 | GROMMET | |
| 20 | 80383231 | 1 | HEATER CONTROL VALVE | |
| 21 | 82033995 | AR | HEATER HOSE, 5/8 | |

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**Figure 6-15 Pilot Cut-off Assembly**



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**Figure 6-15 Pilot Cut-off Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80365023 | 1 | PILOT CUT-OFF ASSY, (includes all items) | |
| 1 | 80363037 | 1 | GAS SPRING | |
| 2 | 77143006 | 5 | WHIZ-LOK NUT, 5/16-18 | |
| 3 | 80363210 | 1 | PIVOT LEVER | |
| 4 | 80361093 | 1 | INSIDE MOUNT BRACKET | |
| 5 | 80363043 | 2 | BUSHING | |
| 6 | 80363166 | 1 | SENSOR | |
| 7 | 80363082 | 2 | BALL STUD | |
| 8 | 80361026 | 1 | OUTSIDE MOUNT BRACKET | |
| 9 | 91363018 | 3 | WHIZ-LOK SCREW, 5/16-18X1 | |

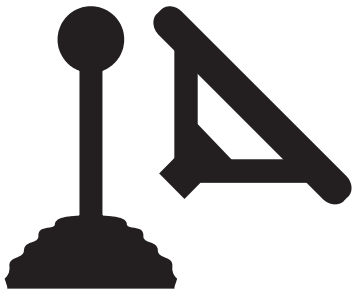
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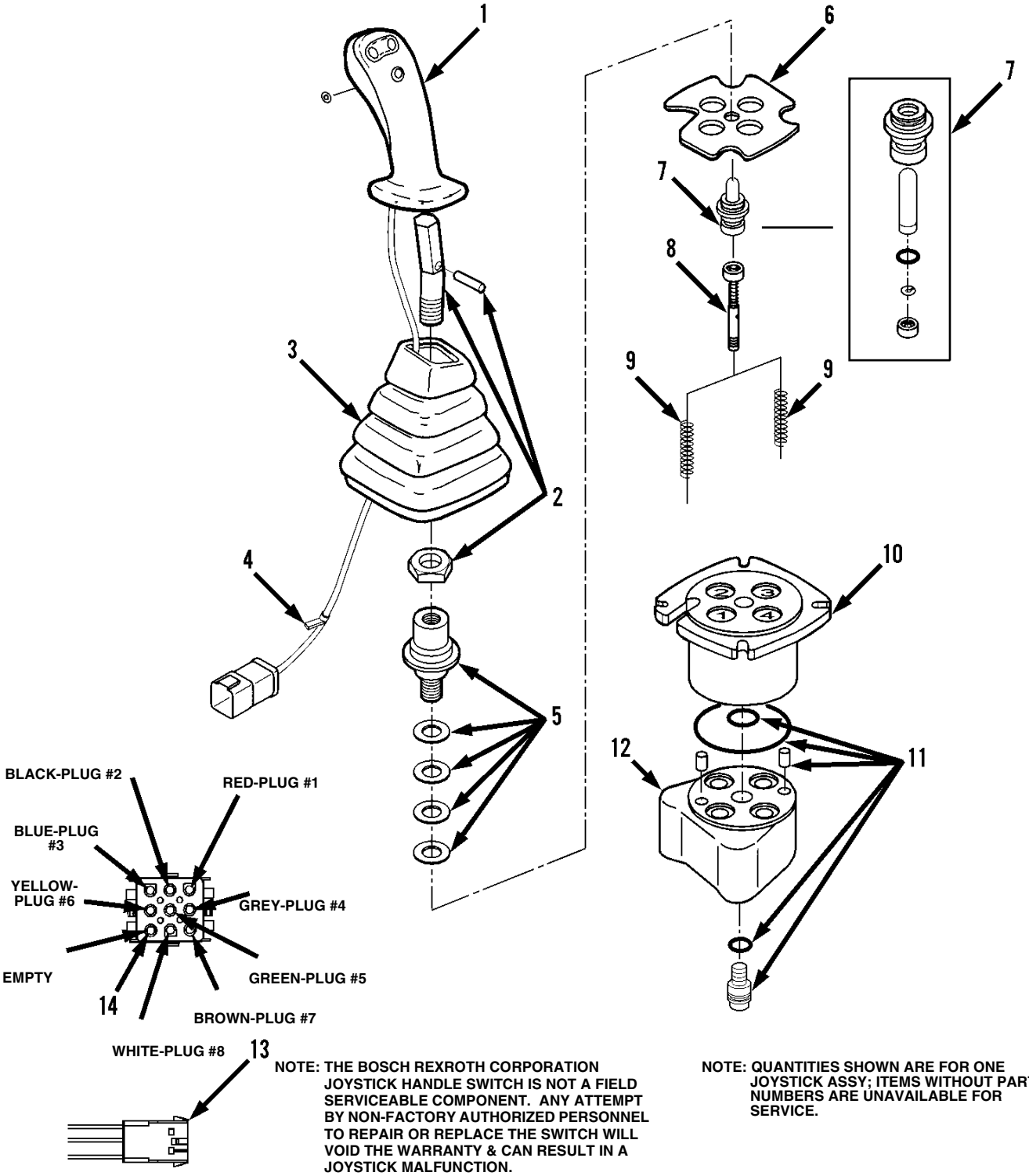
# SECTION 7
# CONTROLS



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**Figure 7-1 Joystick**




NOTE: THE BOSCH REXROTH CORPORATION JOYSTICK HANDLE SWITCH IS NOT A FIELD SERVICEABLE COMPONENT. ANY ATTEMPT BY NON-FACTORY AUTHORIZED PERSONNEL TO REPAIR OR REPLACE THE SWITCH WILL VOID THE WARRANTY & CAN RESULT IN A JOYSTICK MALFUNCTION.

NOTE: QUANTITIES SHOWN ARE FOR ONE JOYSTICK ASSY; ITEMS WITHOUT PART NUMBERS ARE UNAVAILABLE FOR SERVICE.

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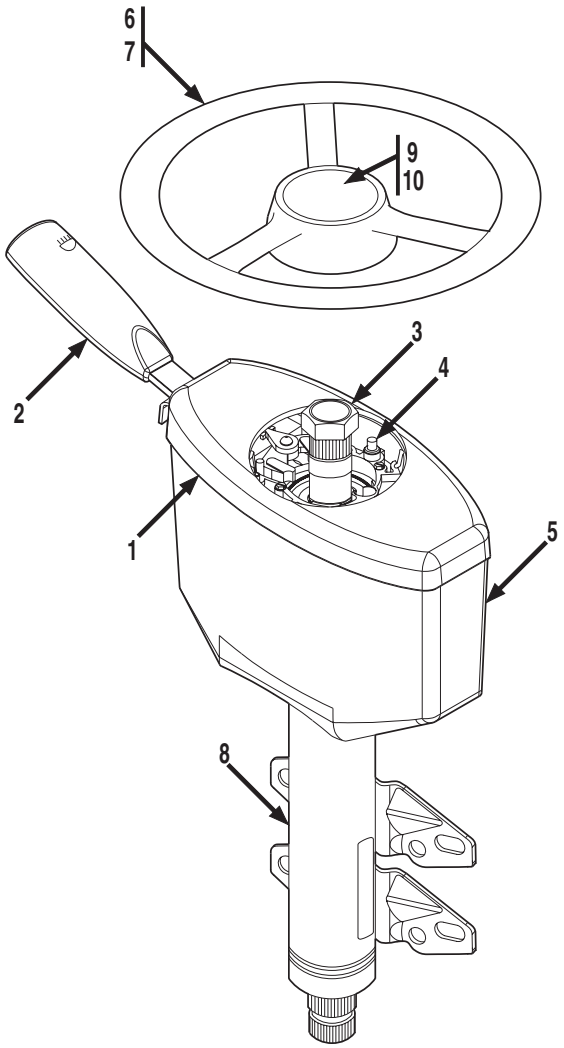
**Figure 7-1 Joystick**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80363003 | 1 | R.H. JOYSTICK, (includes all items) | |
| | 80363002 | 1 | L.H. JOYSTICK, (includes all items) | |
| 1 | 80264127 | 1 | HANDLE GRIP KIT, (L.H & R.H.) | |
| 2 | 91404011 | 1 | BENT LEVER KIT | |
| 3 | 80364095 | 1 | RUBBER BOOT | |
| 4 | 80264139 | 1 | GROMMET KIT, (w/cable tie) | |
| 5 | 80264138 | 1 | CARDEN KIT | |
| 6 | 91404013 | 1 | RETAINING PLATE | |
| 7 | 80934659 | 2 | PLUNGER KIT | |
| 8 | 80364176 | 4 | REGULATING KIT | |
| 9 | 91504029 | 1 | RETURN SPRING, (standard), (pack of two) | |
| | 91504028 | 1 | RETURN SPRING, (heavy), (pack of two) | |
| 10 | 91404016 | 1 | UPPER BODY | |
| 11 | 91404326 | 1 | SEAL KIT | |
| 12 | | 1 | LOWER BODY | |
| 13 | 80263026 | 1 | AMP PIN HOUSING | |
| 14 | 80263032 | 8 | MALE PIN TERMINAL | |

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**Figure 7-2 Steering Column**



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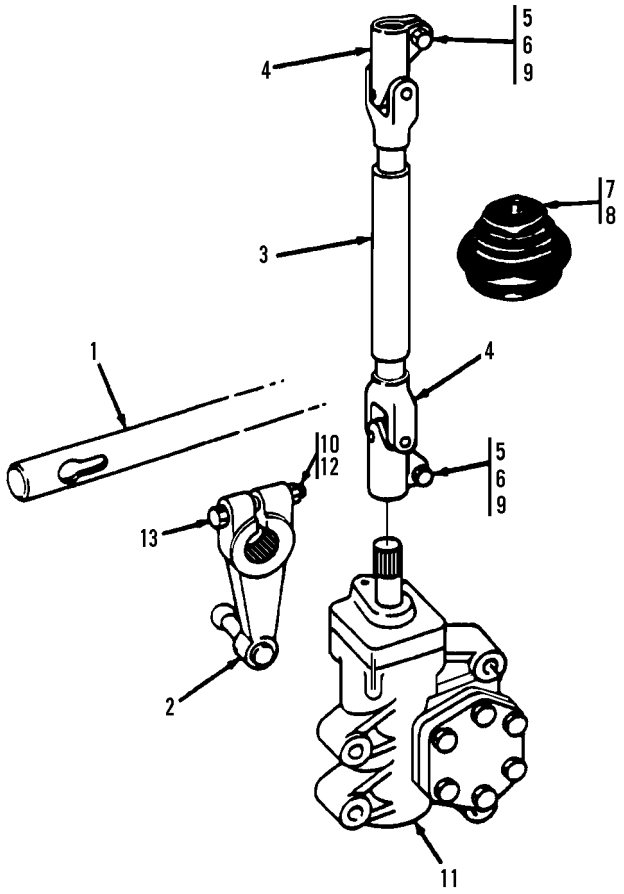
**Figure 7-2 Steering Column**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383056 | 1 | FIXED COLUMN, (includes all items except 6, 7, 9 &10) | |
| 1 | 80384142 | 1 | SHROUD CAP | |
| 2 | 80384143 | 1 | TURN SIGNAL SWITCH | |
| 3 | 83071559 | 1 | WHEEL NUT | |
| 4 | 80384144 | 1 | HORN CONTACT PLUNGER | |
| 5 | 80384145 | 1 | FIXED UPPER SHROUD | |
| 6 | 80383065 | 1 | HORN BUTTON | |
| 7 | 80383335 | 1 | STEERING WHEEL | |
| 8 | 80384146 | 1 | ROTATING & MOUNTING ASSY, (includes the following items) | |
| | | 1 | SHAFT | |
| | | 1 | MOUNTING WELD | |
| | | 1 | BEARING RING | |
| | | 1 | BEARING | |
| 9 | 80383333 | 1 | TURN SIGNAL PLATE | |
| 10 | 80383334 | 1 | HORN WIRE | |

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**Figure 7-3 Steering Drive Shaft**



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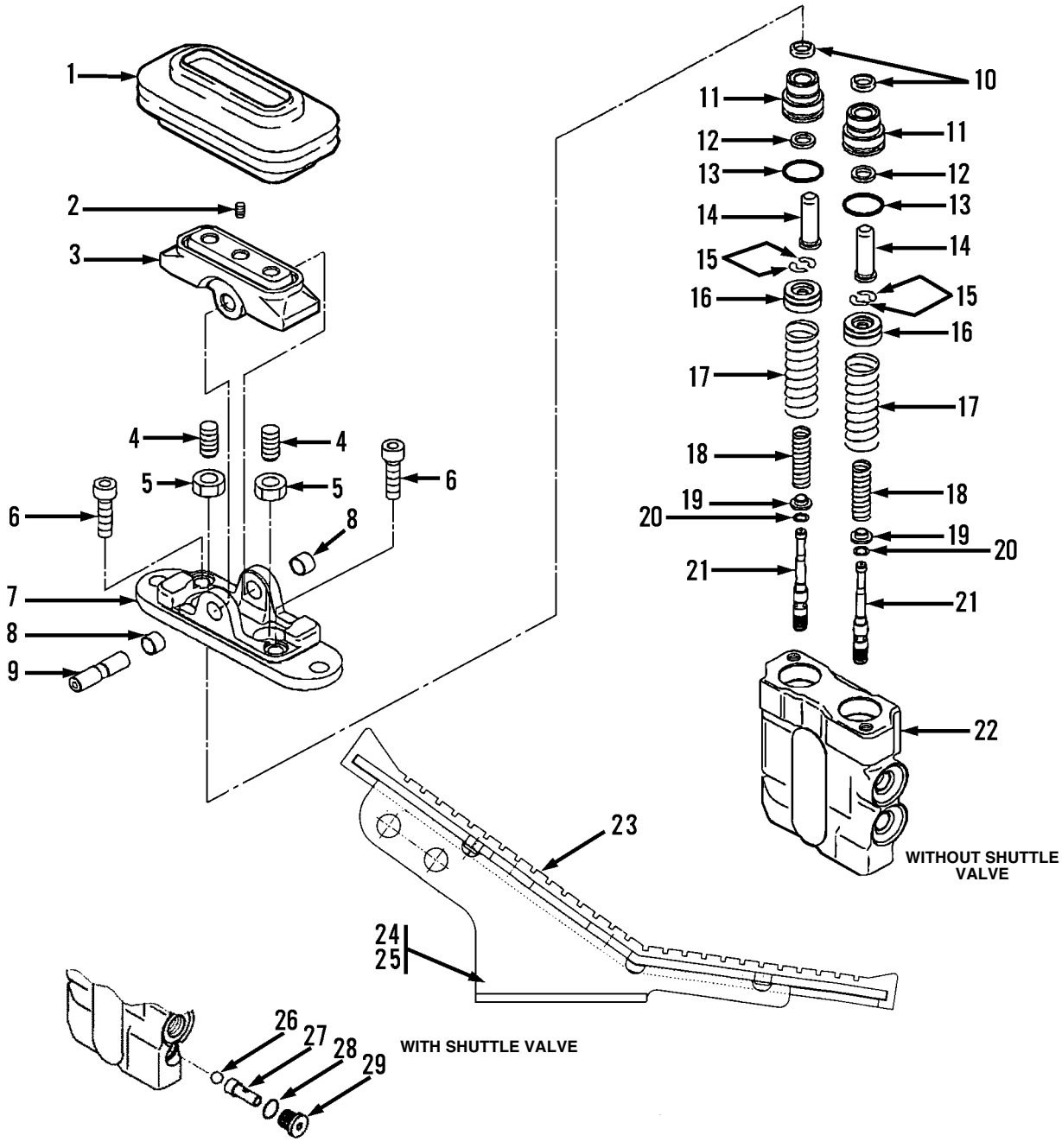
**Figure 7-3 Steering Drive Shaft**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | DRAG LINK ASSY, (see Figure 1-8 for details) | |
| 2 | 83953231 | 1 | STEERING ARM | |
| 3 | 80383051 | 1 | STEERING SHAFT ASSY, (includes items 4, 5 & 6) | |
| 4 | 77383072 | 2 | UNIVERSAL JOINT | |
| 5 | 88201037 | 2 | HEX HD CAPSCREW, 3/8-16X1-1/2, GR5 | |
| 6 | 88521006 | 2 | HEX LOCKNUT, 3/8-16 | |
| 7 | 77383198 | 1 | STEERING HOLE COVER | |
| 8 | 85031160 | 1 | CLAMP | |
| 9 | 88551011 | 2 | LOCKWASHER, 3/8 | |
| 10 | 88561115 | 1 | FLAT WASHER, 3/8 | |
| 11 | | Ref | STEERING GEAR ASSY, (see Figure 9-38 for details) | |
| 12 | 88521012 | 1 | HEX LOCKNUT, 3/4-10 | |
| 13 | 83201001 | 1 | HEX HD CAPSCREW, 3/4-10X4-1/4, GR8 | |

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**Figure 7-4 Foot Operated Pedal Valve**



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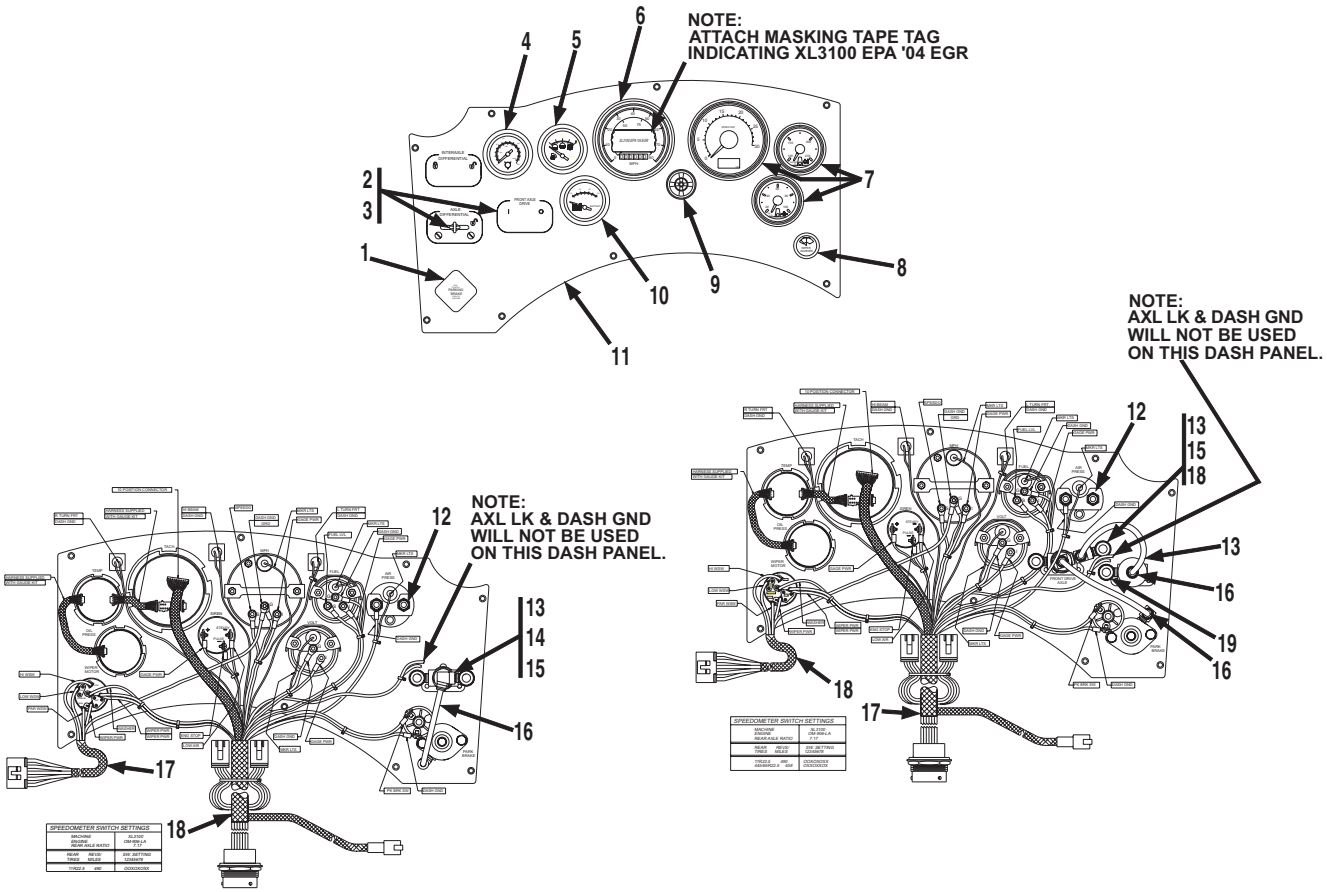
**Figure 7-4 Foot Operated Pedal Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80433128 | 1 | FOOT OPERATED PEDAL VALVE ASSY, (includes all items) | |
| 1 | 80334108 | 1 | BELLOWS | |
| 2 | 80334109 | 1 | SET SCREW | |
| 3 | 80334010 | 1 | CAM | |
| 4 | 80334111 | 2 | SET SCREW | |
| 5 | 80334112 | 2 | LOCK NUT | |
| 6 | 80334227 | 2 | SOCKET HD CAPSCREW | |
| 7 | 80334228 | 1 | COVER | |
| 8 | 80334114 | 2 | BUSHING | |
| 9 | 80334116 | 1 | CAM SHAFT | |
| 10 | 80434226 | 2 | SCRAPER | |
| 11 | 80434227 | 2 | PLUG | |
| 12 | 80434228 | 2 | SEAL | |
| 13 | 80334232 | 2 | O-RING | |
| 14 | 80334233 | 2 | PUSH ROD | |
| 15 | 80334129 | 4 | WASHER | |
| 16 | 80334234 | 2 | SPRING SEAT | |
| 17 | 80334131 | 2 | SPRING | |
| 18 | 80334235 | 2 | SPRING | |
| 19 | 80334236 | 2 | WASHER | |
| 20 | 80334134 | 2 | WASHER | |
| 21 | | 2 | SPOOL | |
| 22 | | 1 | CASING | |
| 23 | 80334145 | 1 | PEDAL COVER | |
| 24 | 80334146 | 1 | PEDAL | |
| 25 | 80334147 | 2 | PEDAL SCREW | |
| 26 | 80334139 | 1 | BALL | |
| 27 | 80434229 | 1 | SEAT | |
| 28 | 80334137 | 1 | O-RING | |
| 29 | 80334136 | 1 | PLUG | |

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**Figure 7-5 Instrument Panel Assembly**



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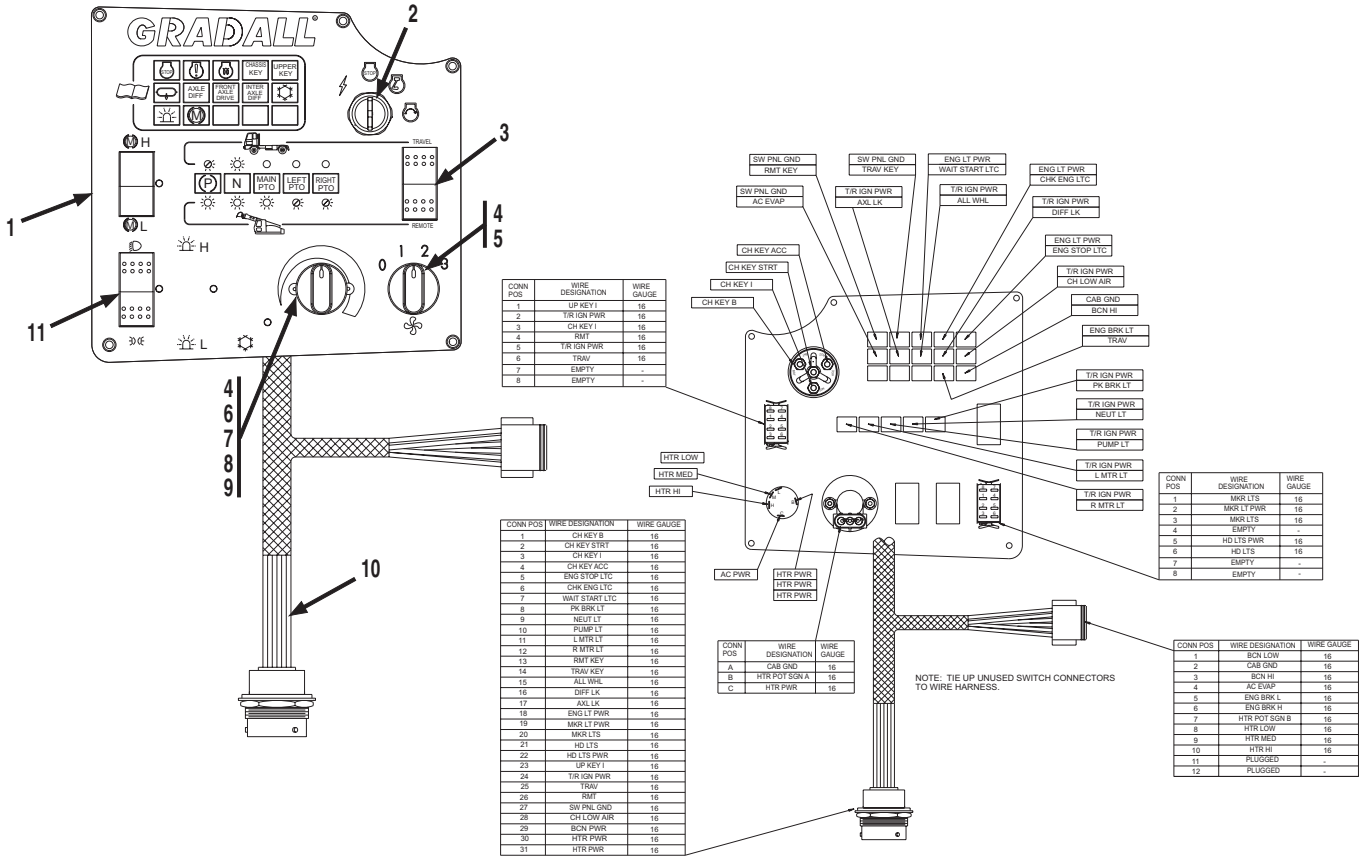
**Figure 7-5 Instrument Panel Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80485032 | 1 | PARKING BRAKE AIR VALVE ASSY, (see Figure 4-10 for details) | |
| 2 | 86683302 | 1 | LOCKOUT AIR VALVE ASSY, (see Figure 4-11 for details), (qty. of 2 for 4x4) | |
| 3 | 883011093 | 2 | ROUND HD MACHINE SCREW, #10-24X3/4, (qty. of 4 for 4x4) | |
| 4 | 83481296 | 1 | DUAL AIR GAUGE | |
| 5 | 90205686 | 1 | FUEL GAUGE | |
| 6 | 80983125 | 1 | SPEEDOMETER | |
| 7 | 80483216 | 1 | NGI GAUGE SET | |
| 8 | 83953038 | 1 | WIPER & WASHER SWITCH | |
| 9 | 77383433 | 1 | MINI-SIREN | |
| 10 | 77383709 | 1 | VOLTMETER | |
| 11 | 80483229 | 1 | DASH PANEL | |
| 12 | 80383145 | 2 | TUBE FITTING, STRAIGHT, 1/8X1/4 TUBE | |
| 13 | 80383208 | 2 | TUBE FITTING, 90 DEGREES, 1/8X3/8 TUBE, (qty. of 3 for 4x4) | |
| 14 | 80383151 | 1 | TUBE FITTING, 90 DEGREES, 1/8X1/4 TUBE, (4x2 only) | |
| 15 | 86883467 | 1 | STREET TEE, 1/8x1/8, (qty. of 2 for 4x4) | |
| 16 | | AR | NYLON TUBING, 1/4 | |
| 17 | 80483217 | 1 | DASH HARNESS | |
| 18 | 80483092 | 1 | WIPER HARNESS | |
| 19 | 80383139 | 3 | TUBE FITTING, STRAIGHT, 1/8X1/4 TUBE, (4X4 only) | |

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**Figure 7-6 Accessory Panel Assembly**




| CONN POS | WIRE DESIGNATION | WIRE GAUGE |
|---|---|---|
| 1 | UP KEY I | 16 |
| 2 | T/R IGN PWR | 16 |
| 3 | CH KEY I | 16 |
| 4 | RMT | 16 |
| 5 | T/R IGN PWR | 16 |
| 6 | TRAV | 16 |
| 7 | EMPTY | - |
| 8 | EMPTY | - |

| CONN POS | WIRE DESIGNATION | WIRE GAUGE |
|---|---|---|
| 1 | CH KEY B | 16 |
| 2 | CH KEY STRT | 16 |
| 3 | CH KEY I | 16 |
| 4 | CH KEY ACC | 16 |
| 5 | ENG STOP LTC | 16 |
| 6 | CHK ENG LTC | 16 |
| 7 | WAIT START LTC | 16 |
| 8 | PK BRK LT | 16 |
| 9 | NEUT LT | 16 |
| 10 | PUMP LT | 16 |
| 11 | L MTR LT | 16 |
| 12 | R MTR LT | 16 |
| 13 | RMT KEY | 16 |
| 14 | TRAV KEY | 16 |
| 15 | ALL WHL | 16 |
| 16 | DIFF LK | 16 |
| 17 | AXL LK | 16 |
| 18 | ENG LT PWR | 16 |
| 19 | MKR LT PWR | 16 |
| 20 | MKR LTS | 16 |
| 21 | HD LTS | 16 |
| 22 | HD LTS PWR | 16 |
| 23 | UP KEY I | 16 |
| 24 | T/R IGN PWR | 16 |
| 25 | TRAV | 16 |
| 26 | RMT | 16 |
| 27 | SW PNL GND | 16 |
| 28 | CH LOW AIR | 16 |
| 29 | BCN PWR | 16 |
| 30 | HTR PWR | 16 |
| 31 | HTR PWR | 16 |

| CONN POS | WIRE DESIGNATION | WIRE GAUGE |
|---|---|---|
| A | CAB GND | 16 |
| B | HTR POT SGN A | 16 |
| C | HTR PWR | 16 |

| CONN POS | WIRE DESIGNATION | WIRE GAUGE |
|---|---|---|
| 1 | MKR LTS | 16 |
| 2 | MKR LT PWR | 16 |
| 3 | MKR LTS | 16 |
| 4 | EMPTY | - |
| 5 | HD LTS PWR | 16 |
| 6 | HD LTS | 16 |
| 7 | EMPTY | - |
| 8 | EMPTY | - |

| CONN POS | WIRE DESIGNATION | WIRE GAUGE |
|---|---|---|
| 1 | BCN LOW | 16 |
| 2 | CAB GND | 16 |
| 3 | BCN HI | 16 |
| 4 | AC EVAP | 16 |
| 5 | ENG BRK L | 16 |
| 6 | ENG BRK H | 16 |
| 7 | HTR POT SGN B | 16 |
| 8 | HTR LOW | 16 |
| 9 | HTR MED | 16 |
| 10 | HTR HI | 16 |
| 11 | PLUGGED | - |
| 12 | PLUGGED | - |

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**Figure 7-6 Accessory Panel Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485025 | 1 | ACCESSORY PANEL ASSY, R.H., (includes all items) | |
| 1 | 80483069 | 1 | DASH PANEL | |
| 2 | 91033317 | 1 | IGNITION SWITCH | |
| 3 | 80383113 | 1 | ROCKER SWITCH | |
| 4 | 80363069 | 2 | KNOB | |
| 5 | 80964001 | 1 | BLOWER SWITCH | |
| 6 | 80365027 | 1 | POTENTIOMETER ASSY | |
| 7 | 88241018 | 2 | SOCKET FLAT HD CAPSCREW, #8-32X5/8 | |
| 8 | 88561104 | 2 | FLAT WASHER, #8 | |
| 9 | 88501610 | 2 | HEX NUT, #8-32 | |
| 10 | 80483068 | 1 | SWITCH PANEL HARNESS | |
| 11 | 91403320 | 1 | ROCKER SWITCH | |

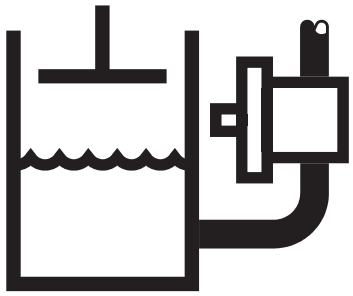
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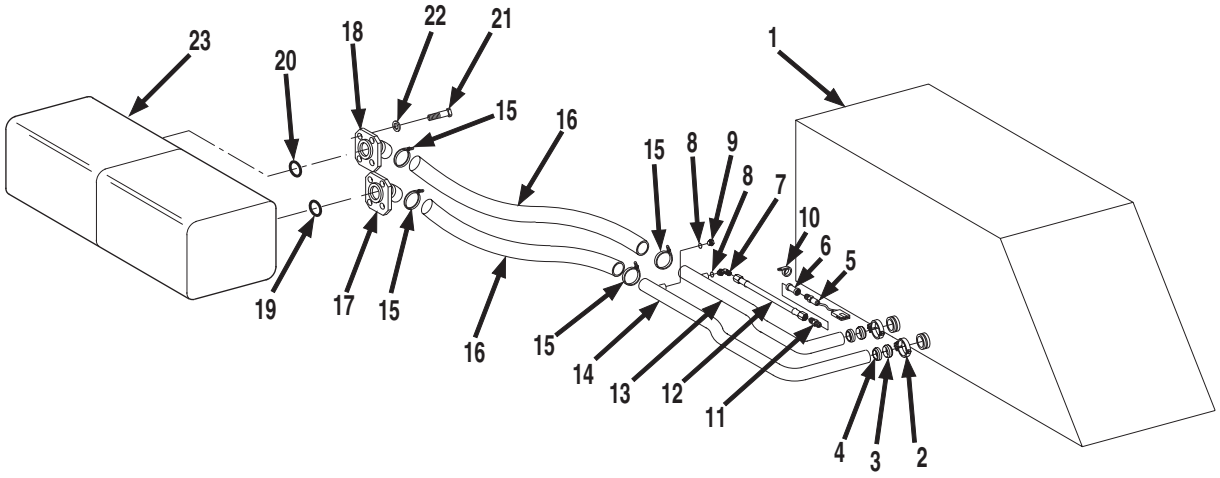
# SECTION 8
# HYDRAULIC CIRCUITS



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**Figure 8-1 Hydraulic Oil Supply to Main Pump**



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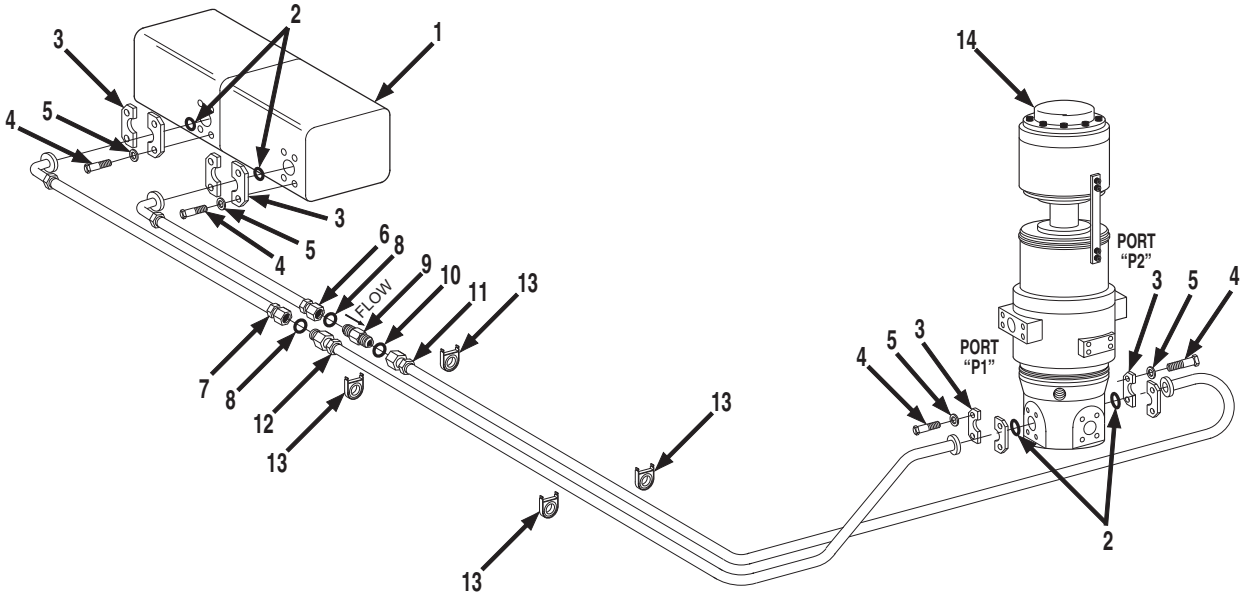
**Figure 8-1 Hydraulic Oil Supply to Main Pump**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | HYDRAULIC RESERVOIR ASSY, (see Figure 9-30 for details) | |
| 2 | 86571121 | 2 | GASKET RETAINER | |
| 3 | 86571119 | 2 | GASKET | |
| 4 | 86571120 | 2 | COUPLING CLAMP | |
| 5 | 80233077 | 1 | SUCTION SWITCH | |
| 6 | 88711210 | 1 | PIPE COUPLING, 1/8 | |
| 7 | 88662062 | 1 | ELBOW, 90 DEGREES, (includes item 8) | |
| 8 | 88591202 | 2 | O-RING | |
| 9 | 88662172 | 1 | HEX PLUG, (includes item 8) | |
| 10 | 85941016 | 1 | SUPPORT CLAMP | |
| 11 | 88773000 | 1 | MALE ADAPTER, 1/8X1/4 TUBE | |
| 12 | 84718130 | 1 | HOSE ASSY | |
| 13 | 80383115 | 1 | TUBE ASSY | |
| 14 | 80383116 | 1 | TUBE ASSY | |
| 15 | 80383134 | 4 | HEAVY DUTY BAND CLAMP | |
| 16 | 80383129 | 2 | HOSE ASSY | |
| 17 | 80383127 | 1 | SUCTION TUBE | |
| 18 | 80383273 | 1 | SUCTION TUBE | |
| 19 | 88591106 | 1 | O-RING | |
| 20 | 88591103 | 1 | O-RING | |
| 21 | 88201066 | 8 | HEX HD CAPSCREW, 1/2-13X1-1/4, GR5 | |
| 22 | 88551013 | 8 | LOCKWASHER, 1/2 | |
| 23 | | Ref | MAIN HYDRAULIC PUMP ASSY, (see Figure 9-6 for details) | |

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**Figure 8-2 Main Hydraulic Pump to Center Pin**



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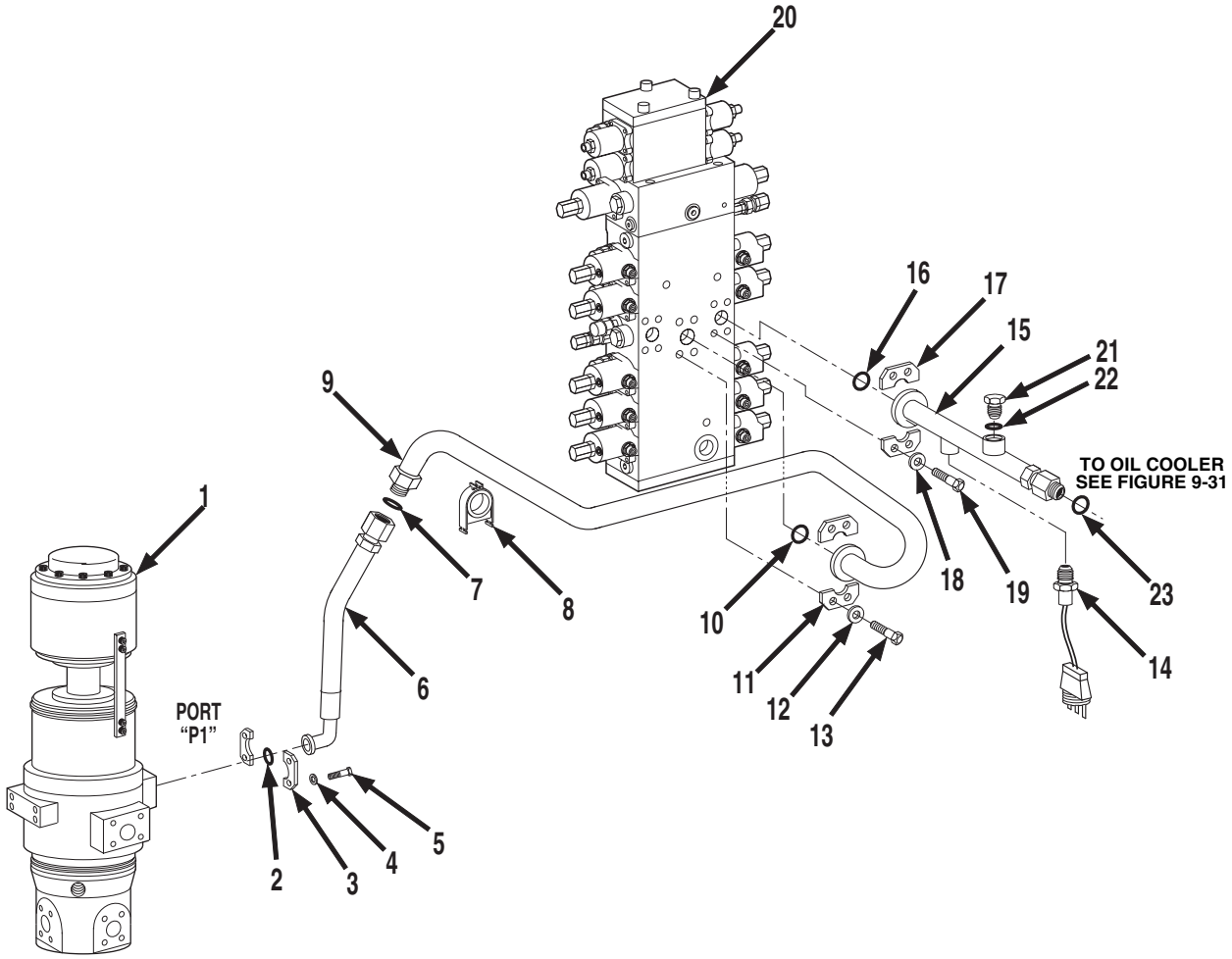
**Figure 8-2 Main Hydraulic Pump to Center Pin**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC PUMP, (see Figures 9-6 & 9-7 for details) | |
| 2 | 91083106 | 2 | O-RING | |
| 3 | 84711333 | 8 | FLANGE HALF | |
| 4 | 88201036 | 16 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 5 | 88551011 | 16 | LOCKWASHER, 3/8 | |
| 6 | 84719388 | 1 | HOSE ASSY | |
| 7 | 84719389 | 1 | HOSE ASSY | |
| 8 | 88591509 | 2 | O-RING | |
| 9 | 80383120 | 1 | CHECK VALVE | |
| 10 | 88591510 | 1 | O-RING | |
| 11 | 80383111 | 1 | TUBE ASSY | |
| 12 | 80383110 | 1 | TUBE ASSY | |
| 13 | 90205792 | 4 | CUSHION CLAMP, 1-1/4 | |
| 14 | | Ref | CENTER PIN ASSY, (see Figure 9-22 for details) | |

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**Figure 8-3 Hydraulic Pressure from Center Pin to Control Valves**



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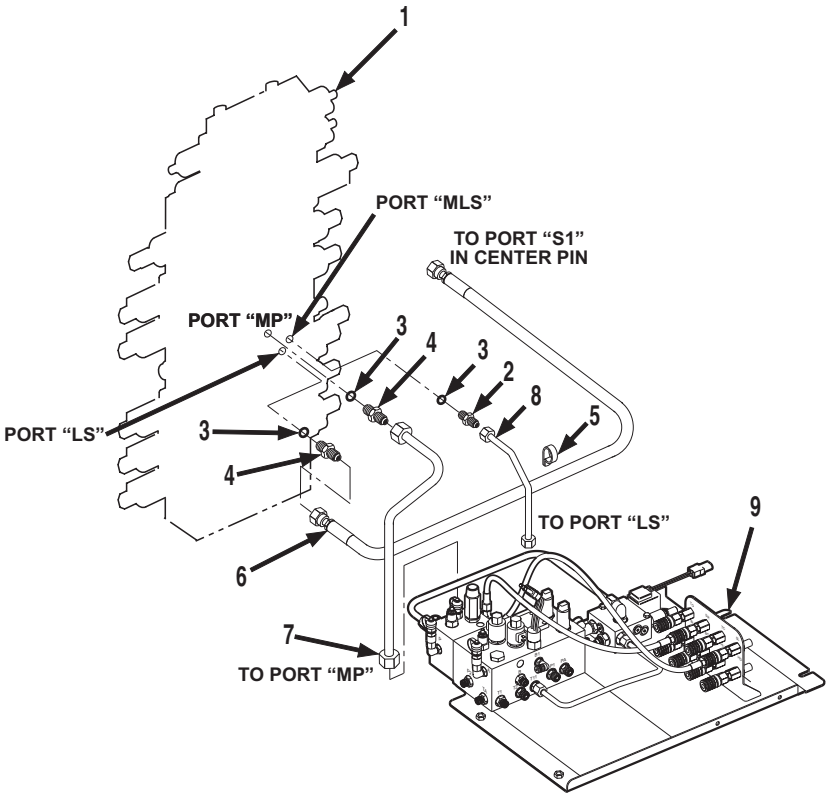
**Figure 8-3 Hydraulic Pressure from Center Pin to Control Valves**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | CENTER PIN, (see Figure 9-22 for details) | |
| 2 | 91083339 | 1 | O-RING | |
| 3 | 84712739 | 2 | FLANGE HALF | |
| 4 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 5 | 88201068 | 4 | HEX HD CAPSCREW, 1/2-13X1-3/4, GR5 | |
| 6 | 84719946 | 1 | HOSE ASSY | |
| 7 | 88591511 | 1 | O-RING | |
| 8 | 90205792 | 1 | CUSHION CLAMP, 1-1/4 | |
| 9 | 80333209 | 1 | TUBE ASSY | |
| 10 | 91083106 | 1 | O-RING | |
| 11 | 84712738 | 2 | FLANGE HALF | |
| 12 | 88551012 | 4 | LOCKWASHER, 7/16 | |
| 13 | 88201053 | 4 | HEX HD CAPSCREW, 7/16-14X1-3/4, GR5 | |
| 14 | 80333098 | 1 | COOLING FAN TEMP SWITCH | |
| 15 | 80333196 | 1 | TUBE ASSY | |
| 16 | 91083106 | 1 | O-RING | |
| 17 | 84711333 | 2 | FLANGE HALF | |
| 18 | 88551011 | 4 | LOCKWASHER, 3/8 | |
| 19 | 88201036 | 4 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 20 | | Ref | MAIN HYDRAULIC VALVE ASSY, (see Figure 9-8 for details) | |
| 21 | 88662193 | 1 | PLUG, (includes item 22) | |
| 22 | 88591205 | 1 | O-RING | |

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**Figure 8-4 Main Valve to Pilot Manifold**



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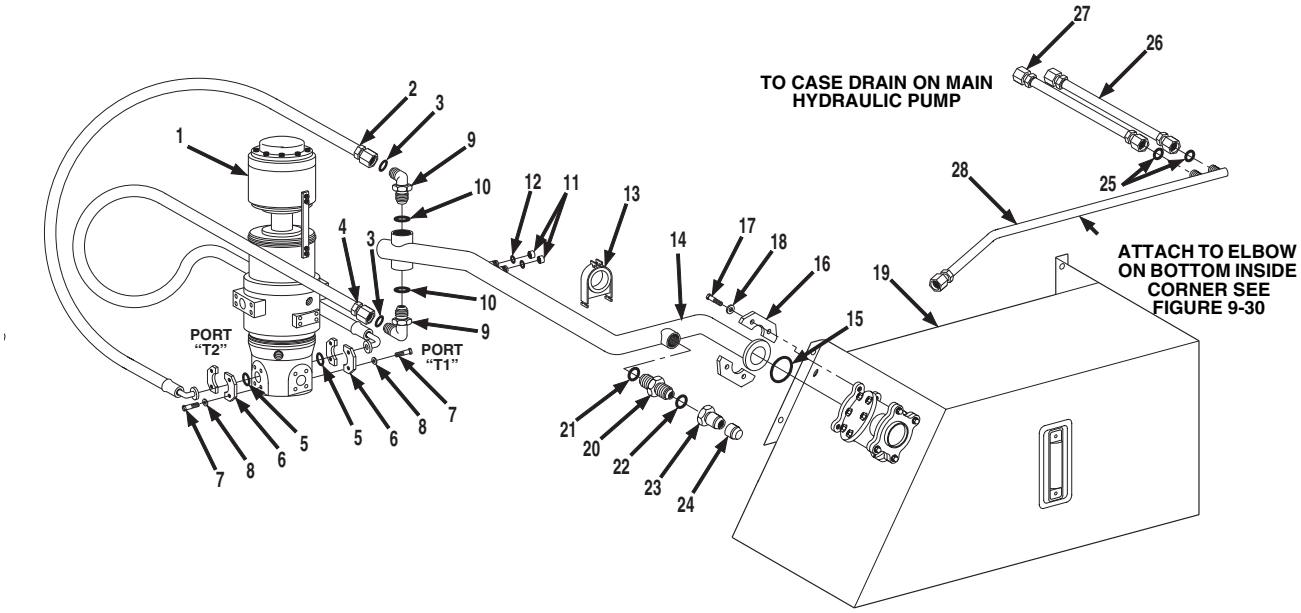
**Figure 8-4 Main Valve to Pilot Manifold**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 88662471 | 1 | CONNECTOR, (includes item 3) | |
| 3 | 88591204 | 3 | O-RING | |
| 4 | 88662301 | 2 | CONNECTOR, (includes item 3) | |
| 5 | 91383039 | 1 | SUPPORT CLAMP | |
| 6 | 84719716 | 1 | HOSE ASSY | |
| 7 | 80333214 | 1 | TUBE ASSY | |
| 8 | 80333215 | 1 | TUBE ASSY | |
| 9 | | Ref | PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-12 for details) | |

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**Figure 8-5 Chassis Dump**



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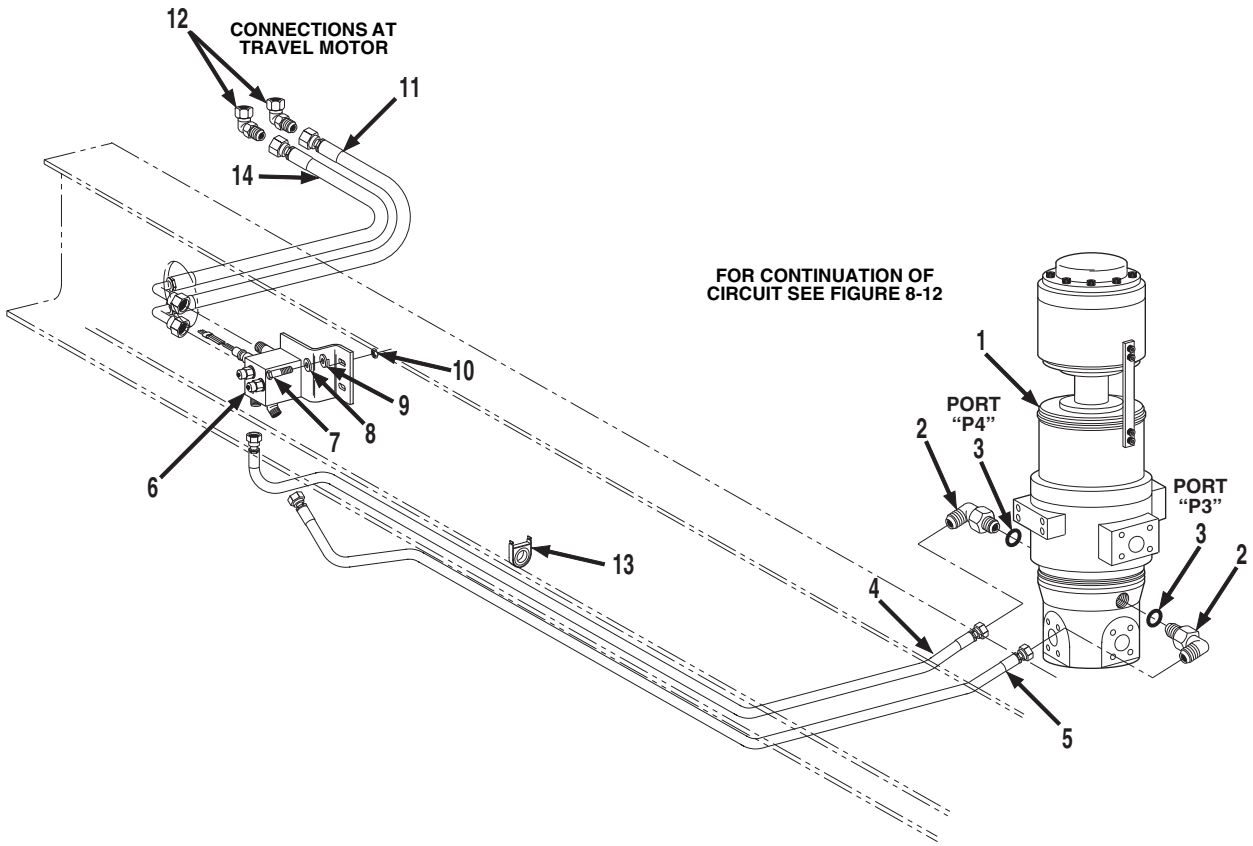
**Figure 8-5 Chassis Dump**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | CENTER PIN, (see Figure 9-22 for details) | |
| 2 | 84719528 | 1 | HOSE ASSY | |
| 3 | 88591509 | 2 | O-RING | |
| 4 | 84719527 | 1 | HOSE ASSY | |
| 5 | 91083106 | 2 | O-RING | |
| 6 | 84711333 | 4 | FLANGE HALF | |
| 7 | 88201036 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 8 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 9 | 88662333 | 2 | ELBOW, 90 DEGREES, (includes item 10) | |
| 10 | 88591209 | 2 | O-RING | |
| 11 | 84714013 | 2 | CAP | |
| 12 | 88591505 | 2 | O-RING | |
| 13 | 83863005 | 1 | CUSHION CLAMP | |
| 14 | 80383137 | 1 | DUMP TUBE ASSY | |
| 15 | 77363038 | 1 | O-RING | |
| 16 | 84711427 | 2 | FLANGE HALF | |
| 17 | 88201067 | 4 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 | |
| 18 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 19 | | Ref | RESERVOIR ASSY, (see Figure 9-30 for details) | |
| 20 | 88662027 | 1 | CONNECTOR, (includes item 21) | |
| 21 | 88591207 | 1 | O-RING | |
| 22 | 88591209 | 1 | O-RING | |
| 23 | 83451129 | 1 | MALE Q.D. COUPLING | |
| | 83451128 | 1 | FEMALE Q.D. COUPLING, (included in tool kit, see Rec. Sp. Parts) | |
| 24 | 83623026 | 1 | DUST CAP, (male) | |
| | 83623027 | 1 | DUST CAP, (female) | |
| 25 | 88591508 | 2 | O-RING | |
| 26 | 84719526 | 1 | HOSE ASSY | |
| 27 | 84719525 | 1 | HOSE ASSY | |
| 28 | 80383214 | 1 | TUBE ASSY | |

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**Figure 8-6 Remote Propelling**



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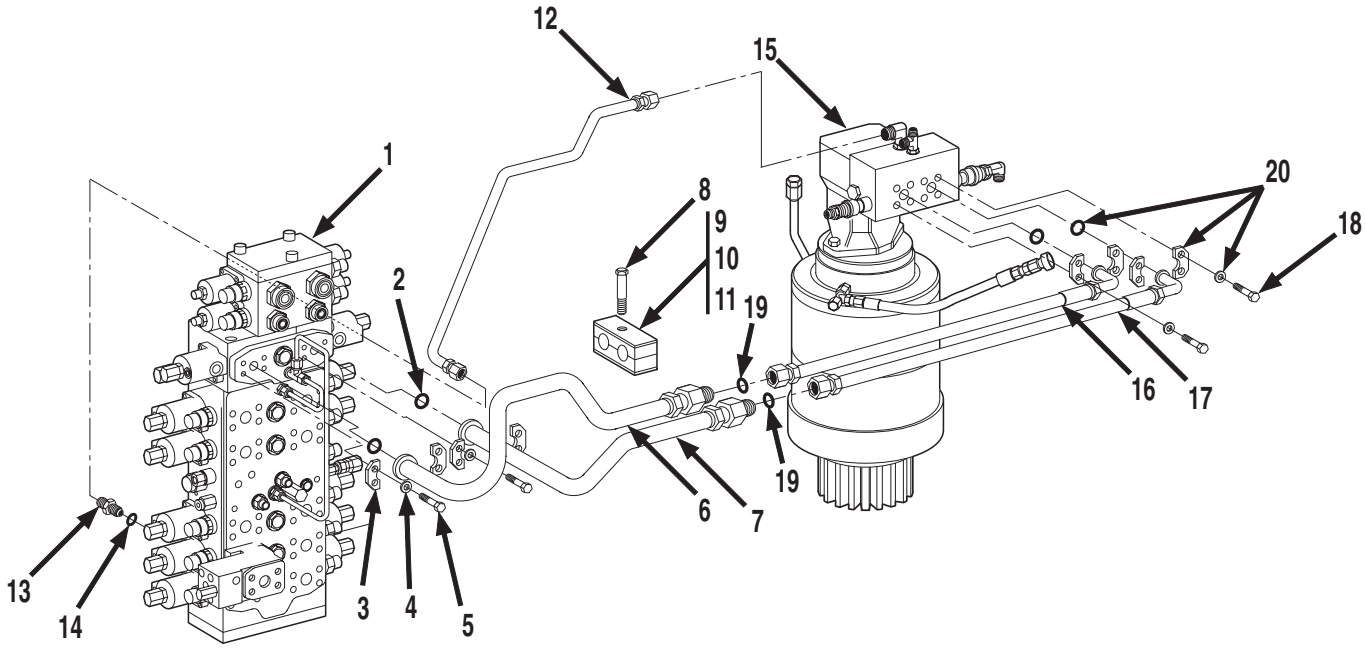
**Figure 8-6 Remote Propelling**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | CENTER PIN, (see Figure 9-22 for details) | |
| 2 | 88662336 | 2 | ELBOW, 90 DEGREES, (includes item 3) | |
| 3 | 88591207 | 2 | O-RING | |
| 4 | 80383103 | 1 | TUBE ASSY | |
| 5 | 80383102 | 1 | TUBE ASSY | |
| 6 | | Ref | COUNTERBALANCE VALVE ASSY, (see Figure 9-32 for details) | |
| 7 | 88201067 | 2 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 | |
| 8 | 88551013 | 2 | LOCKWASHER, 1/2 | |
| 9 | 88561006 | 2 | FLAT WASHER, 1/2 | |
| 10 | 88501008 | 2 | HEX NUT, 1/2-13 | |
| 11 | 84719973 | 1 | HOSE ASSY, **(4X2 Before S/N 3120036)**, **(4X4 Before S/N 3140144)** | |
| | 84721065 | 1 | HOSE ASSY, **(4X2 S/N 3120036 & After)**, **(4X4 S/N 3140144 & After)** | |
| 12 | 88662373 | Ref | ELBOW, 90 DEGREES, (swivel nut), (see Figure 4-1 for details) | |
| 13 | 91053413 | 2 | CUSHION CLAMP, 1 | |
| 14 | 84719973 | 1 | HOSE ASSY, **(4X2 Before S/N 3120036)**, **(4X4 Before S/N 3140144)** | |
| | 84721080 | 1 | HOSE ASSY, **(4X2 S/N 3120036 & After)**, **(4X4 S/N 3140144 & After)** | |

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**Figure 8-7 Swing Motor**



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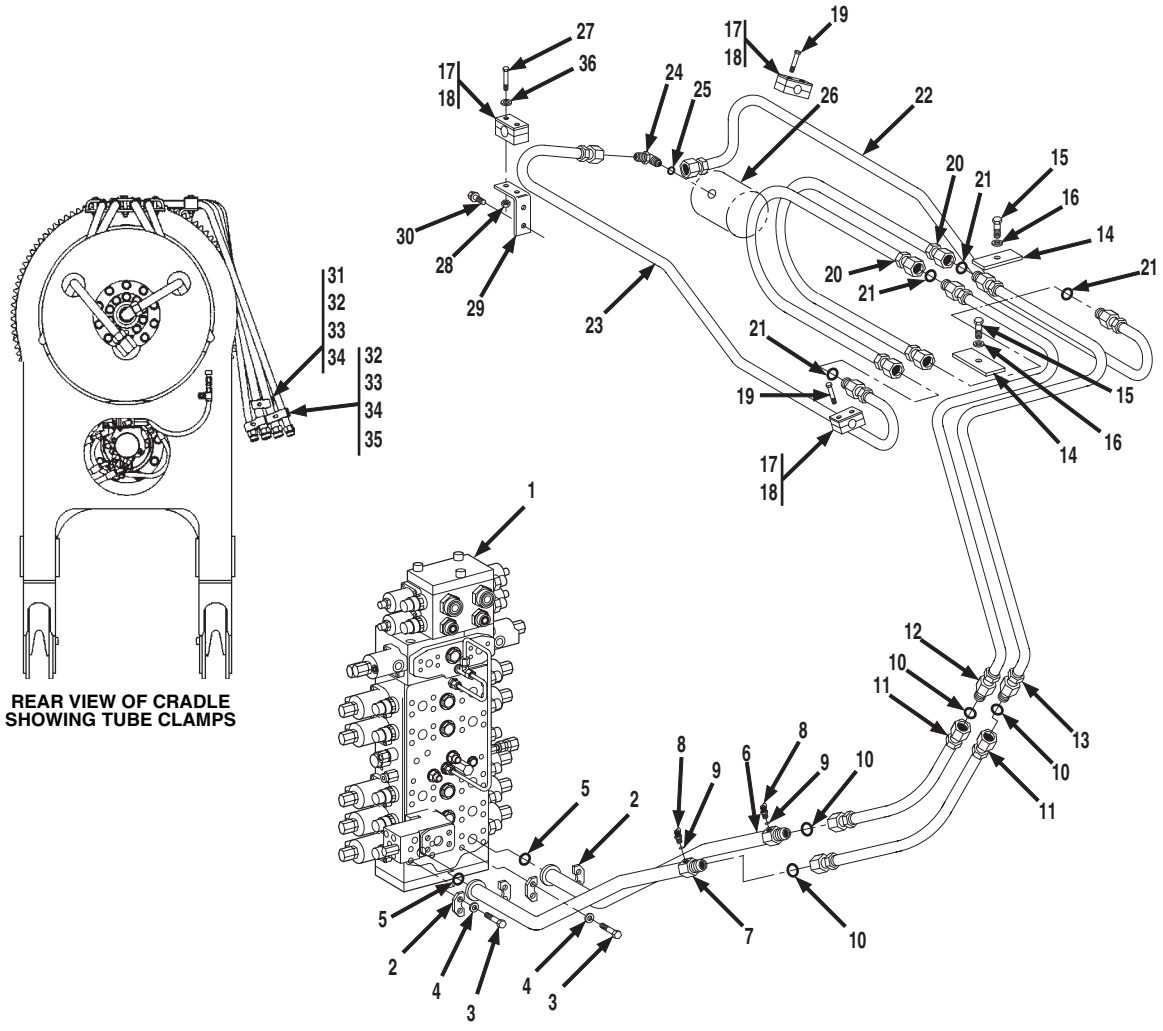
**Figure 8-7 Swing Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80933066 | 4 | O-RING | |
| 3 | 84712737 | 8 | FLANGE HALF | |
| 4 | 88551011 | 16 | LOCKWASHER, 3/8 | |
| 5 | 83201037 | 4 | HEX HD CAPSCREW, 3/8-16x1-1/2, GR5 | |
| 6 | 80333075 | 1 | TUBE ASSY | |
| 7 | 80333042 | 1 | TUBE ASSY | |
| 8 | 88201023 | 1 | HEX HD CAPSCREW, 5/16-18X1-3/4, GR5 | |
| 9 | 77133137 | 1 | COVER PLATE | |
| 10 | 77133279 | 1 | CLAMP SET | |
| 11 | 77133138 | 1 | BASE PLATE | |
| 12 | 80333082 | 1 | TUBE ASSY | |
| 13 | 88662311 | 1 | CONNECTOR, (includes item 14) | |
| 14 | 88591206 | 1 | O-RING | |
| 15 | | Ref | SWING TRANSMISSION, (see Figure 9-19 for details) | |
| 16 | 84719454 | 1 | HOSE ASSY | |
| 17 | 84719453 | 1 | HOSE ASSY | |
| 18 | 83201073 | 8 | HEX HD CAPSCREW, 3/8-16X4-1/2, GR5 | |
| 19 | 80933066 | 2 | O-RING | |
| 20 | 80333134 | 2 | METRIC FLANGE KIT, (discard capscrews) | |

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**Figure 8-8 Boom Cylinder**



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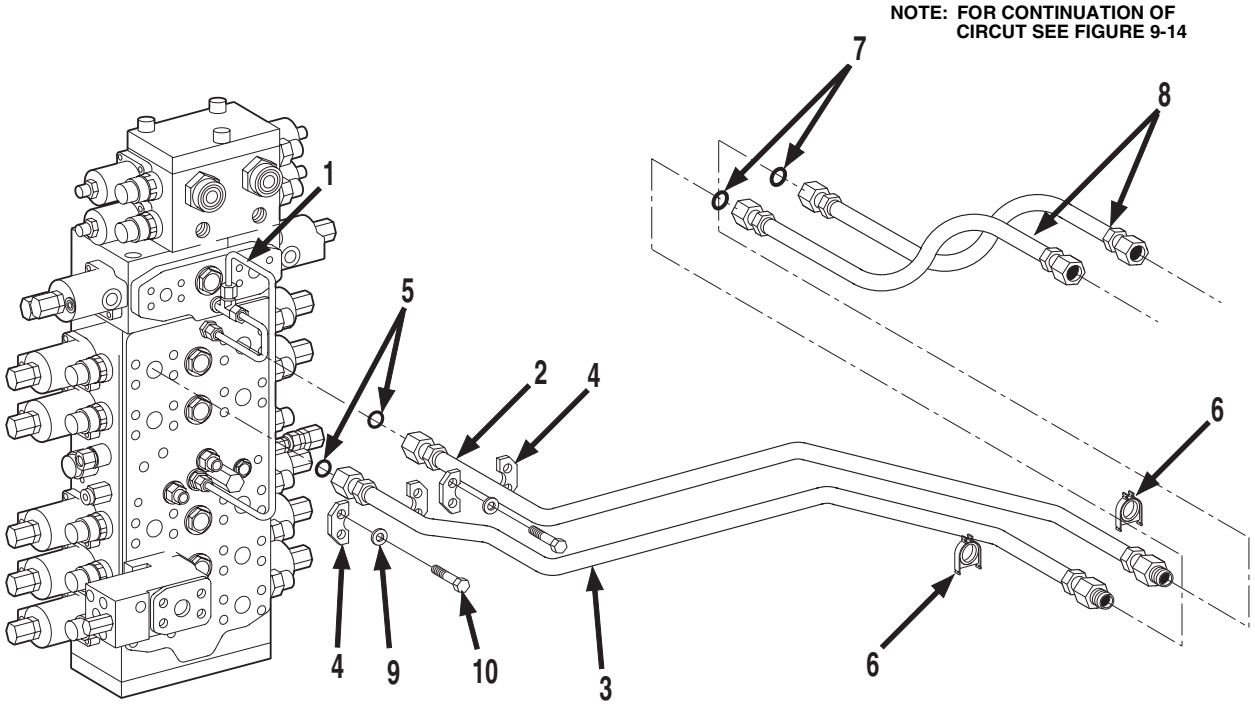
**Figure 8-8 Boom Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 84712737 | 4 | FLANGE HALF | |
| 3 | 88201037 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/2, GR5 | |
| 4 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 5 | 80933066 | 2 | O-RING | |
| 6 | 80333059 | 1 | TUBE ASSY | |
| 7 | 80333060 | 1 | TUBE ASSY | |
| 8 | 77133089 | 2 | MINI-CHECK COUPLING, (includes item 9) | |
| 9 | 83763056 | 2 | VITON O-RING, (lubricate lightly) | |
| 10 | 88591509 | 4 | O-RING | |
| 11 | 84719452 | 2 | HOSE ASSY | |
| 12 | 80323017 | 1 | TUBE ASSY | |
| 13 | 80323016 | 1 | TUBE ASSY | |
| 14 | 80321083 | 2 | TUBE CLAMP | |
| 15 | 88201073 | 2 | HEX HD CAPSCREW, 1/2-13X3, GR5 | |
| 16 | 88551013 | 2 | LOCKWASHER, 1/2 | |
| 17 | 83251291 | 3 | COVER PLATE | |
| 18 | 83251289 | 3 | CLAMP SET | |
| 19 | 88201043 | 4 | HEX HD CAPSCREW, 3/8-16X3, GR5 | |
| 20 | 84719401 | 2 | HOSE ASSY | |
| 21 | 88591510 | 4 | O-RING | |
| 22 | 80323037 | 1 | TUBE ASSY | |
| 23 | 80323009 | 1 | TUBE ASSY | |
| 24 | 88662334 | 1 | ELBOW, 90 DEGREES, (includes item 25) | |
| 25 | 88591210 | 1 | O-RING | |
| 26 | | Ref | BOOM CYLINDER ASSY, (see Figure 9-2 for details) | |
| 27 | 88201046 | 2 | HEX HD CAPSCREW, 3/8-16X3-3/4, GR5 | |
| 28 | 88521206 | 2 | HEX LOCKNUT, 3/8-16 | |
| 29 | 80326013 | 1 | CLAMP BRACKET | |
| 30 | 80973025 | 2 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 31 | 80321085 | 2 | CLAMP | |
| 32 | 80221281 | 3 | SPACER | |
| 33 | 88211073 | 3 | SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8 | |
| 34 | 88521206 | 3 | HEX LOCKNUT, 3/8-16 | |
| 35 | 80221277 | 24 | CLAMP | |
| 36 | 88561004 | 2 | FLAT WASHER, 3/8 | |

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**Figure 8-9 Tilt Motor**



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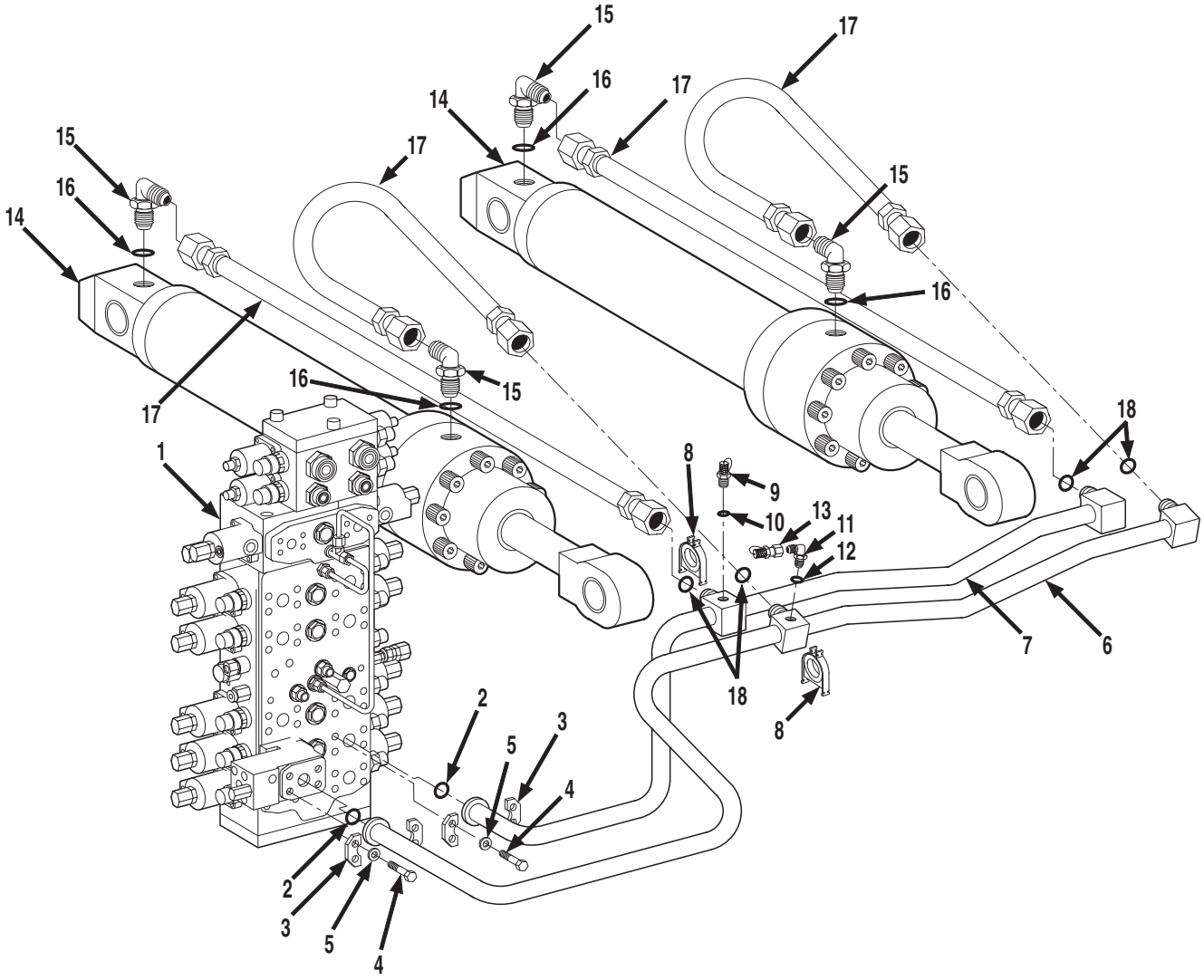
**Figure 8-9 Tilt Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80333084 | 1 | TUBE ASSY | |
| 3 | 80333083 | 1 | TUBE ASSY | |
| 4 | 84712747 | 4 | FLANGE HALF | |
| 5 | 80933066 | 2 | O-RING | |
| 6 | 91083217 | 2 | CUSHION CLAMP | |
| 7 | 88591506 | 2 | O-RING | |
| 8 | 84719338 | 2 | HOSE ASSY | |
| 9 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 10 | 88201037 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/2, GR5 | |

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**Figure 8-10 Hoist Cylinder**



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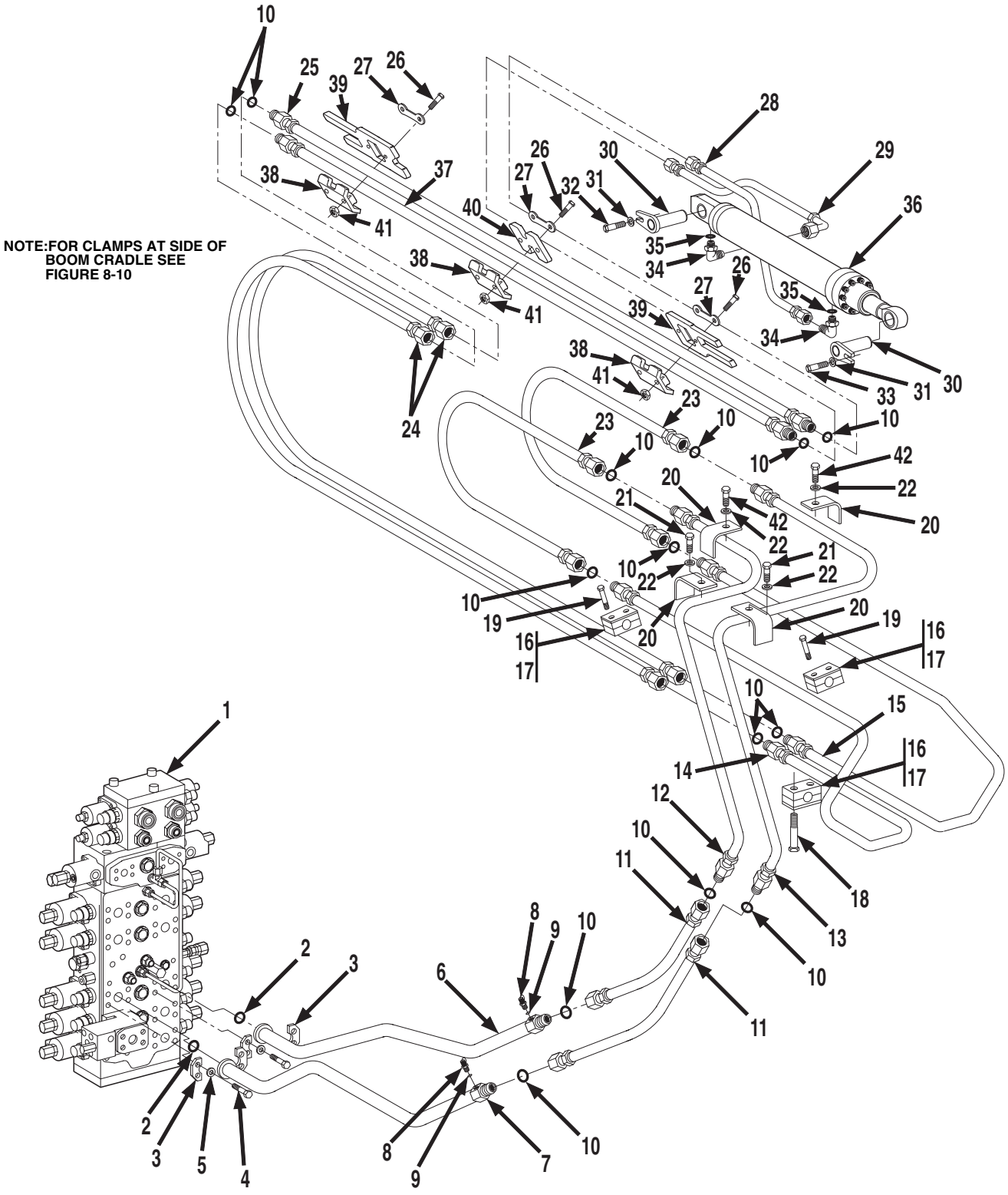
**Figure 8-10 Hoist Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80933066 | 2 | O-RING | |
| 3 | 84712737 | 4 | FLANGE HALF | |
| 4 | 88201037 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 5 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 6 | 80333064 | 1 | TUBE ASSY | |
| 7 | 80333213 | 1 | TUBE ASSY | |
| 8 | 91053413 | 2 | CUSHION CLAMP, 1 | |
| 9 | 77133089 | 1 | MINI-CHECK COUPLING, (includes item 10) | |
| 10 | 83763056 | 1 | VITON O-RING, (lubricate lightly) | |
| 11 | 88662064 | 1 | ELBOW, 90 DEGREES, (includes item 12) | |
| 12 | 88591204 | 1 | O-RING | |
| 13 | 91143172 | 1 | FEMALE TEST COUPLING | |
| 14 | | Ref | HOIST CYLINDER ASSY, (see Figure 9-1 for details) | |
| 15 | 88662332 | 4 | ELBOW, 90 DEGREES, (includes item 16) | |
| 16 | 88591207 | 4 | O-RING | |
| 17 | 84719329 | 4 | HOSE ASSY | |
| 18 | 88591508 | 4 | O-RING | |

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**Figure 8-11 Tool Cylinder**



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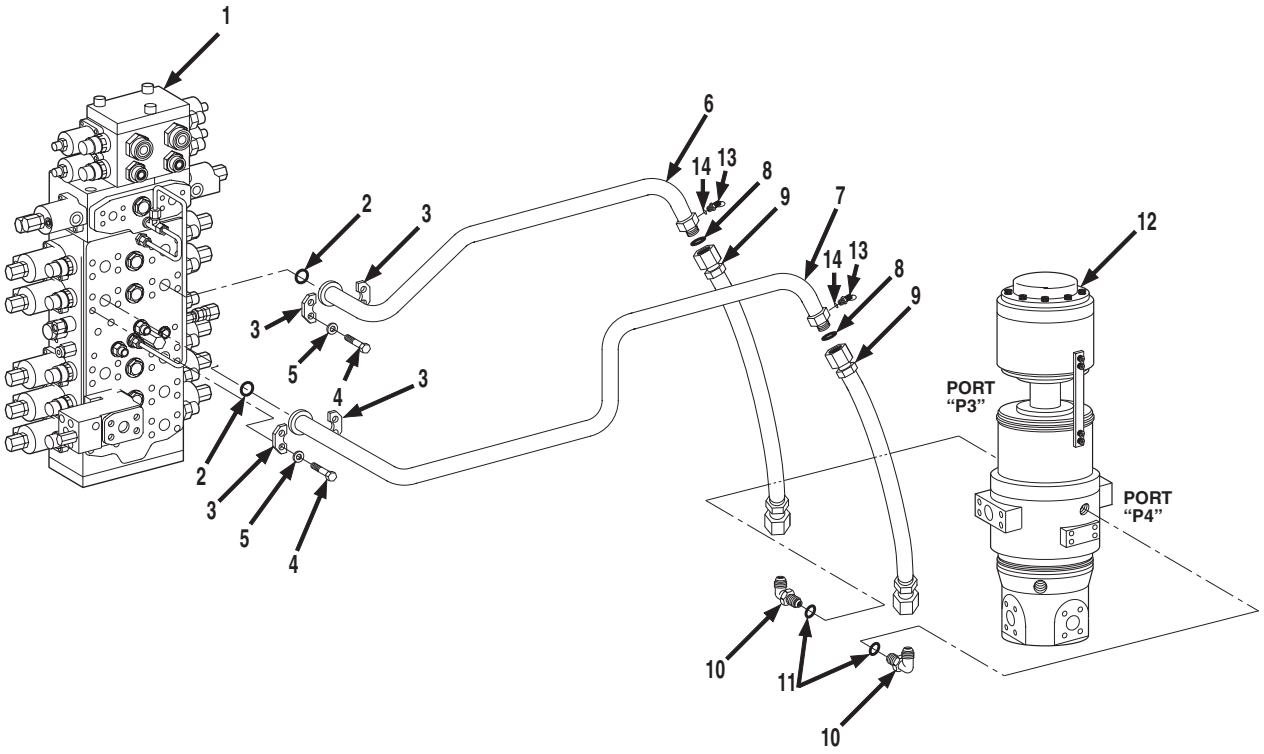
**Figure 8-11 Tool Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80933066 | 2 | O-RING | |
| 3 | 84712737 | 4 | FLANGE HALF | |
| 4 | 88201037 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/2, GR5 | |
| 5 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 6 | 80333062 | 1 | TUBE ASSY | |
| 7 | 80333061 | 1 | TUBE ASSY | |
| 8 | 77133089 | 2 | MINI-CHECK COUPLING, (includes item 9) | |
| 9 | 83763056 | 2 | VITON O-RING, (lubricate lightly) | |
| 10 | 88591508 | 14 | O-RING | |
| 11 | 84719337 | 2 | HOSE ASSY | |
| 12 | 80323015 | 1 | TUBE ASSY | |
| 13 | 80323014 | 1 | TUBE ASSY | |
| 14 | 80323007 | 1 | TUBE ASSY | |
| 15 | 80323006 | 1 | TUBE ASSY | |
| 16 | 83253009 | 6 | CLAMP SET | |
| 17 | 83253010 | 6 | COVER PLATE | |
| 18 | 88201042 | 4 | HEX HD CAPSCREW, 3/8-16X2-3/4, GR5 | |
| 19 | 88201040 | 8 | HEX HD CAPSCREW, 3/8-16X2-1/4, GR5 | |
| 20 | 80321084 | 4 | TUBE CLAMP | |
| 21 | 88201073 | 2 | HEX HD CAPSCREW, 1/2-13X3, GR5 | |
| 22 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 23 | 84718116 | 2 | HOSE ASSY | |
| 24 | 84719176 | 2 | HOSE ASSY | |
| 25 | 80323042 | 1 | TUBE ASSY | |
| 26 | 88201067 | 6 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5, **(4X2 Before S/N 3120016)**, **(4X4 Before S/N 3140114)** | |
| | 88201068 | 6 | HEX HD CAPSCREW, 1/2-13X1-3/4, GR5, **(4X2 S/N 3120016 & After)**, **(4X4 S/N 3140114 & After)** | |
| 27 | 80221278 | 6 | KEEPER | |
| 28 | 84719267 | 1 | HOSE ASSY | |
| 29 | 84719174 | 1 | HOSE ASSY, **(4X2 Before S/N 3120016)**, **(4X4 Before S/N 3140114)** | |
| | 84719999 | 1 | HOSE ASSY, **(4X2 S/N 3120016 & After)**, **(4X4 S/N 3140114 & After)** | |
| 30 | 80926014 | 2 | PIN WELDMENT | |
| 31 | 83621283 | 2 | SPECIAL WASHER | |
| 32 | 88201063 | 1 | HEX HD CAPSCREW, 1/2-13X3/4, GR5 | |
| 33 | 83201047 | 1 | HEX HD CAPSCREW, 1/2-13X1-3/4, GR8 | |
| 34 | 88662332 | 2 | ELBOW, 90 DEGREES, (includes item 35) | |
| 35 | 88591207 | 2 | O-RING | |
| 36 | | Ref | TOOL CYLINDER ASSY, (see Figure 9-3 for details) | |
| 37 | 80323043 | 1 | TUBE ASSY | |
| 38 | 80423038 | 3 | CLAMP TOP WELDMENT | |
| 39 | 80321136 | 2 | BOTTOM PLATE | |
| 40 | 80321137 | 1 | CENTER CLAMP BOTTOM | |
| 41 | 88521008 | 6 | HEX LOCKNUT, 1/2-13, (only used on machines, **(4X2 S/N 3120016 & After)**, **(4X4 S/N 3140114 & After)**) | |
| 42 | 88201071 | 2 | HEX HD CAPSCREW, 1/2-13X2-1/2, GR5 | |

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**Figure 8-12 Upper Propelling**



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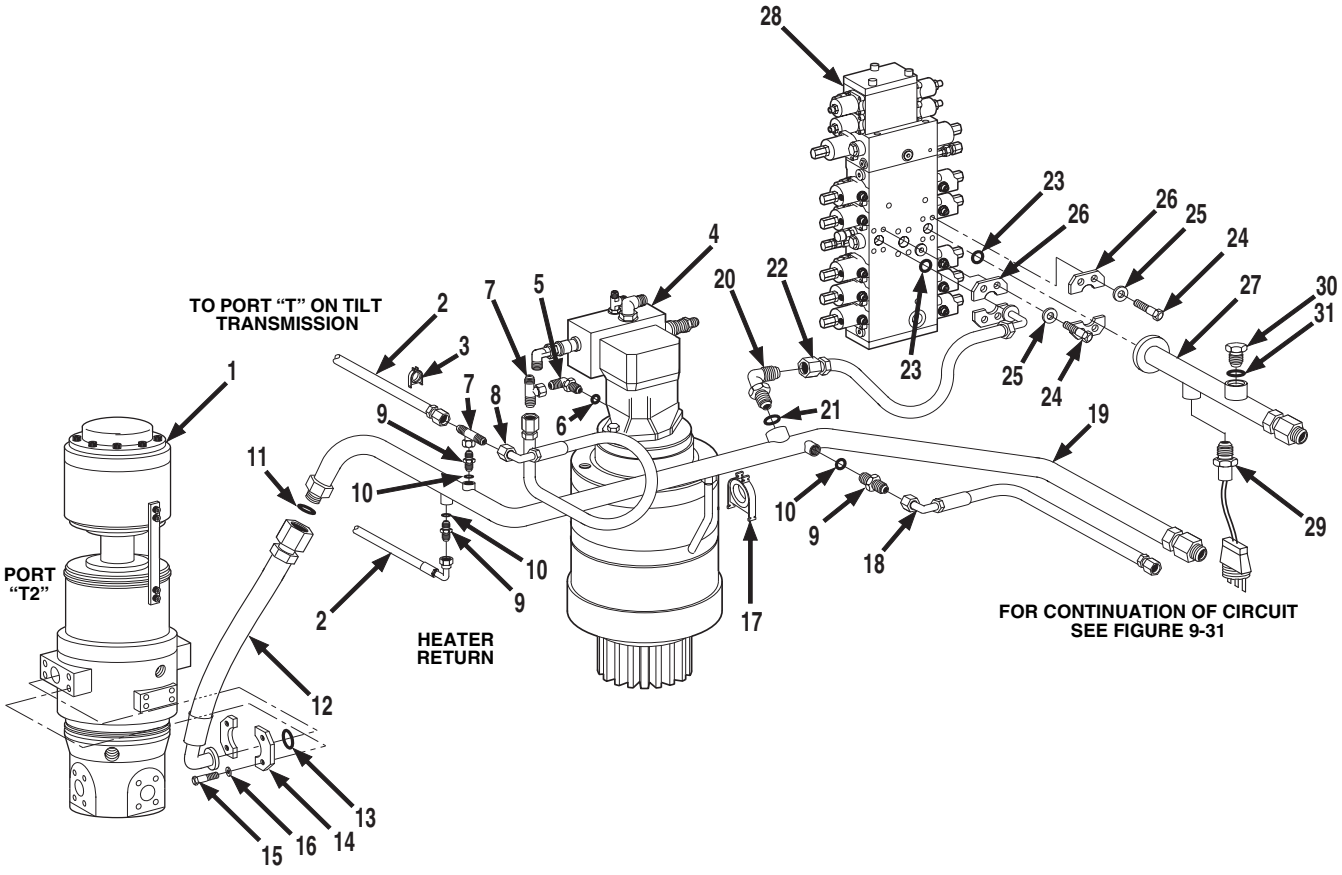
**Figure 8-12 Upper Propelling**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80933066 | 2 | O-RING | |
| 3 | 84712737 | 4 | FLANGE HALF | |
| 4 | 88201037 | 16 | HEX HD CAPSCREW, 3/8-16X1-1/2, GR5 | |
| 5 | 88551011 | 16 | LOCKWASHER, 3/8 | |
| 6 | 80333078 | 1 | TUBE ASSY | |
| 7 | 80333079 | 1 | TUBE ASSY | |
| 8 | 88591509 | 2 | O-RING | |
| 9 | 84719500 | 2 | HOSE ASSY | |
| 10 | 88662336 | 2 | ELBOW, 90 DEGREES, (includes item 11) | |
| 11 | 88591207 | 2 | O-RING | |
| 12 | | Ref | CENTER PIN, (see Figure 9-22 for details) | |
| 13 | 77133089 | 2 | MINI-CHECK COUPLING, (includes item 14) | |
| 14 | 83763056 | 2 | VITON O-RING, (lubricate lightly) | |

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**Figure 8-13 Upper Dump**



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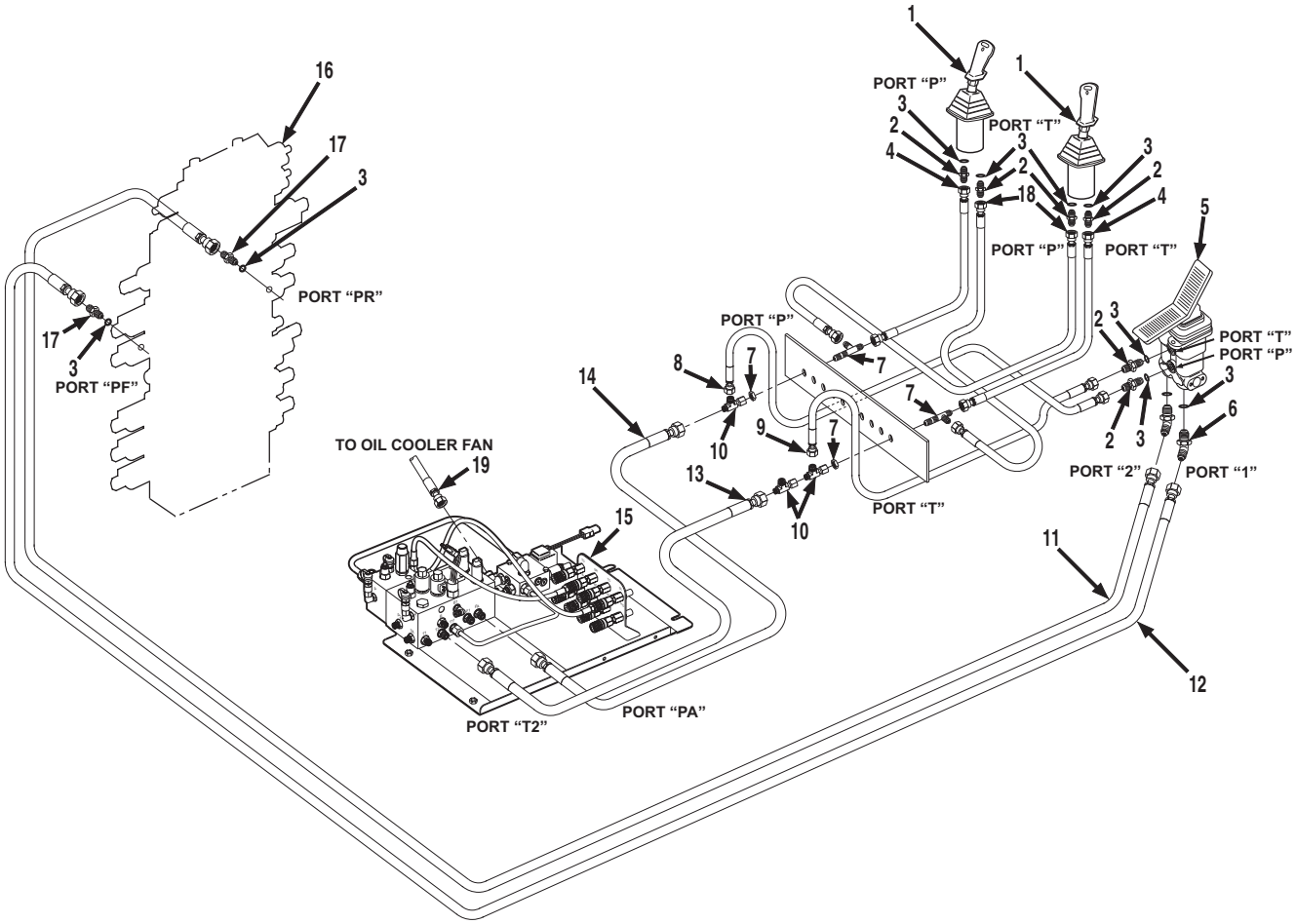
**Figure 8-13 Upper Dump**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | CENTER PIN, (see Figure 9-22 for details) | |
| 2 | 84718622 | 2 | HOSE ASSY | |
| 3 | 90207464 | 1 | CUSHION CLAMP, 7/8 | |
| 4 | | Ref | SWING TRANSMISSION, (see Figure 9-19 for details) | |
| 5 | 88662435 | 1 | ELBOW, 90 DEGREES, (includes item 6) | |
| 6 | 88591206 | 1 | O-RING | |
| 7 | 88662355 | 2 | SWIVEL NUT BRANCH TEE | |
| 8 | 84718716 | 1 | HOSE ASSY | |
| 9 | 88662302 | 3 | CONNECTOR, (includes item 10) | |
| 10 | 88591205 | 3 | O-RING | |
| 11 | 88591511 | 1 | O-RING | |
| 12 | 84719502 | 1 | HOSE ASSY | |
| 13 | 83783043 | 1 | O-RING | |
| 14 | 84711342 | 2 | FLANGE HALF | |
| 15 | 88201067 | 4 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 | |
| 16 | 88551013 | 4 | LOCKWASHER, 1/2 | |
| 17 | 90205793 | 1 | CUSHION CLAMP, 1-1/2 | |
| 18 | 84719338 | 1 | HOSE ASSY | |
| 19 | 80333081 | 1 | DUMP TUBE | |
| 20 | 88662333 | 1 | ELBOW, 90 DEGREES, (includes item 21) | |
| 21 | 88591209 | 1 | O-RING | |
| 22 | 84719395 | 1 | HOSE ASSY | |
| 23 | 91083106 | 2 | O-RING | |
| 24 | 88201036 | 8 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 25 | 88551011 | 8 | LOCKWASHER, 3/8 | |
| 26 | 84711333 | 4 | FLANGE HALF | |
| 27 | 80333196 | 1 | COOLER TUBE | |
| 28 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 29 | 80333098 | 1 | COOLING FAN TEMP SWITCH | |
| 30 | 88662193 | 1 | PLUG, (includes item 31) | |
| 31 | 88591205 | 1 | O-RING | |

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**Figure 8-14 Hydraulic Hosing to Joysticks & Foot Operating Pedal Valve**



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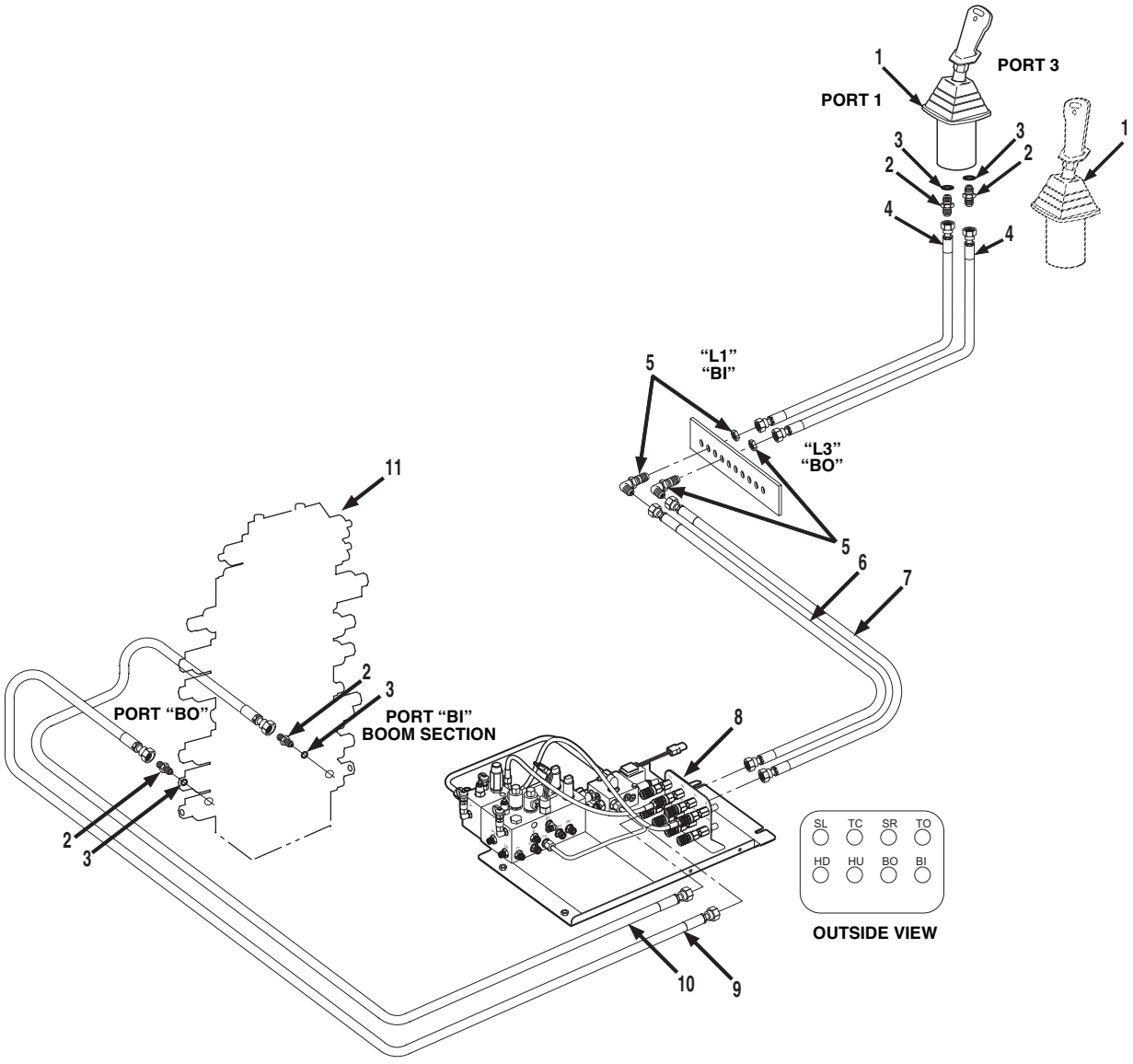
**Figure 8-14 Hydraulic Hosing to Joysticks & Foot Operating Pedal Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | JOYSTICK, (see Figure 7-1 for details) | |
| 2 | 88662301 | 6 | CONNECTOR, (includes item 3) | |
| 3 | 88591204 | 10 | O-RING | |
| 4 | 84719411 | 2 | HOSE ASSY | |
| 5 | | Ref | FOOT OPERATED PEDAL VALVE, (see Figure 7-4 for details) | |
| 6 | 88662489 | 2 | ELBOW, 90 DEGREES, (includes item 3) | |
| 7 | 88662434 | 2 | BULKHEAD RUN TEE | |
| 8 | 84719317 | 1 | HOSE ASSY | |
| 9 | 84719585 | 1 | HOSE ASSY | |
| 10 | 88662446 | 3 | SWIVEL NUT RUN TEE | |
| 11 | 84719535 | 1 | HOSE ASSY | |
| 12 | 84719533 | 1 | HOSE ASSY | |
| 13 | 84719319 | 1 | HOSE ASSY | |
| 14 | 84719318 | 1 | HOSE ASSY | |
| 15 | | Ref | PILOT MANIFOLD VALVE TRAY ASSY, (see Figure 9-12 for details) | |
| 16 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 17 | 88662471 | 2 | ADAPTER, (includes item 3) | |
| 18 | 84719410 | 2 | HOSE ASSY | |
| 19 | 84719106 | 1 | HOSE ASSY | |

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**Figure 8-15 Boom Pilot**



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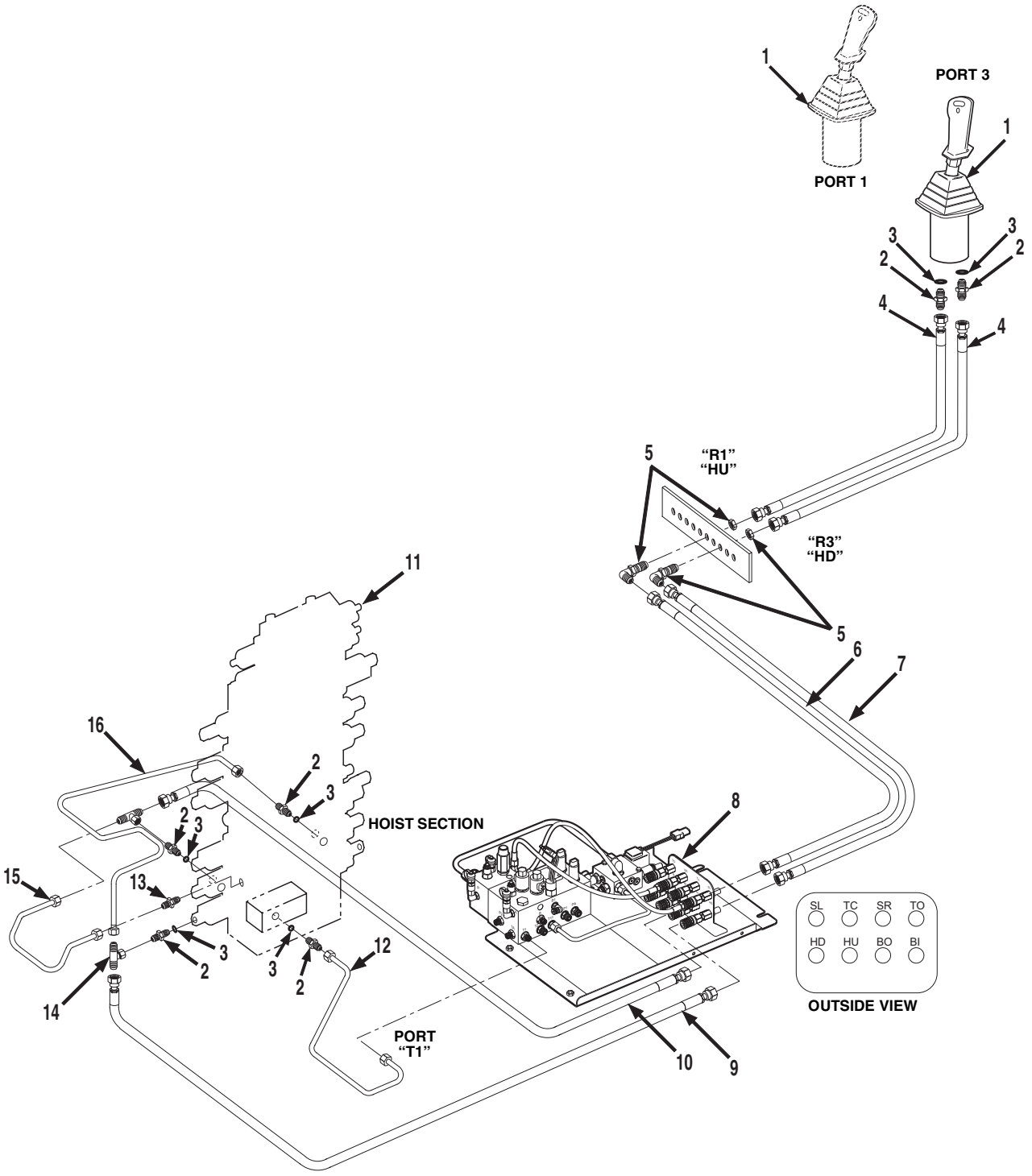
**Figure 8-15 Boom Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | JOYSTICK, (see Figure 7-1 for details) | |
| 2 | 88662471 | 6 | CONNECTOR, (includes item 3) | |
| 3 | 88591204 | 6 | O-RING | |
| 4 | 84719412 | 2 | HOSE ASSY | |
| 5 | 80333045 | 2 | BULKHEAD UNION ELBOW | |
| 6 | 84719312 | 1 | HOSE ASSY | |
| 7 | 84719314 | 1 | HOSE ASSY | |
| 8 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |
| 9 | 84719334 | 1 | HOSE ASSY | |
| 10 | 84719298 | 1 | HOSE ASSY | |
| 11 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |

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**Figure 8-16 Hoist Pilot**



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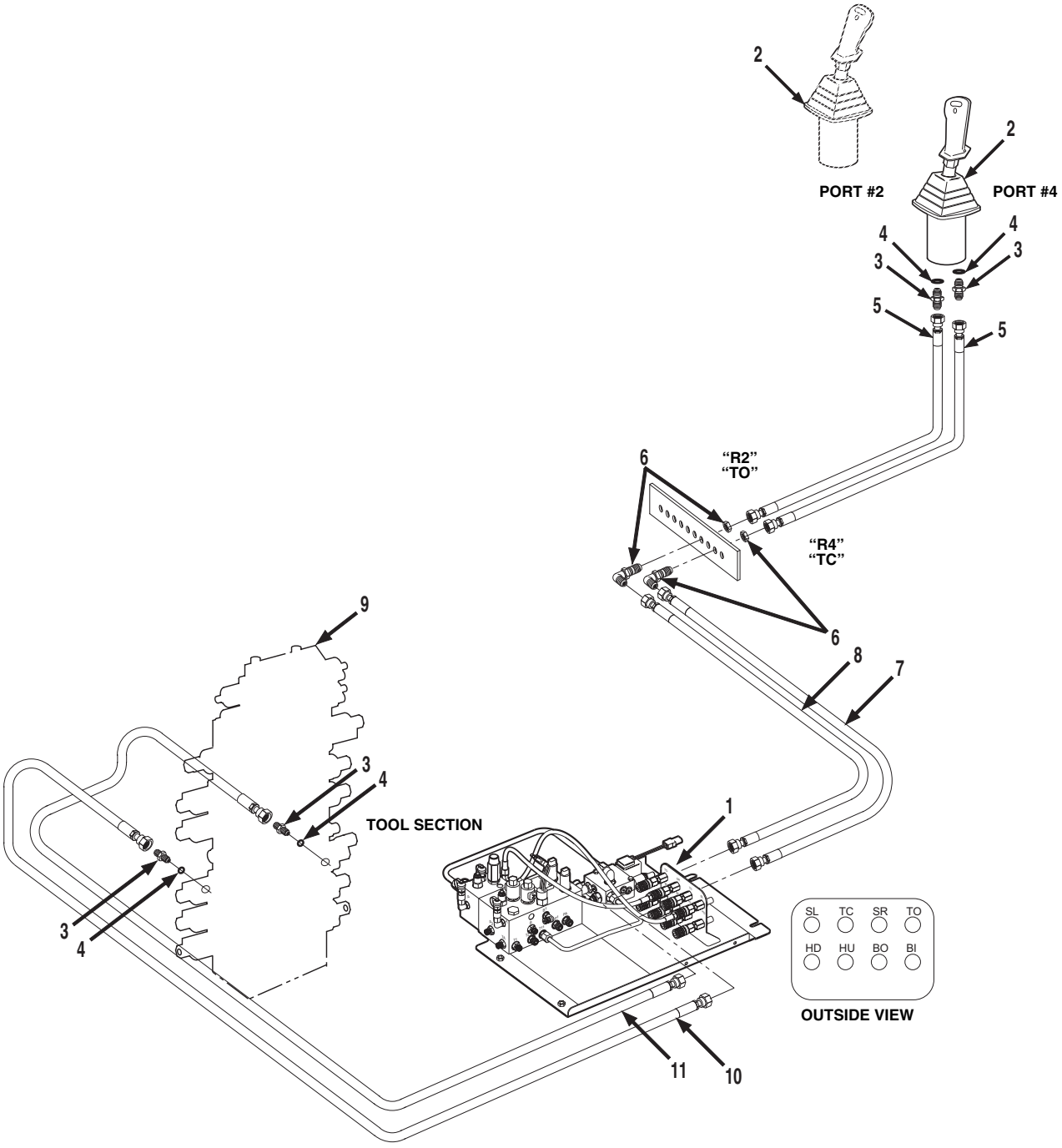
**Figure 8-16 Hoist Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | JOYSTICK, (see Figure 7-1 for details) | |
| 2 | 88662471 | 2 | CONNECTOR, (includes item 4) | |
| 3 | 88591204 | 4 | O-RING | |
| 4 | 84719412 | 2 | HOSE ASSY | |
| 5 | 80333045 | 2 | BULKHEAD UNION ELBOW | |
| 6 | 84719311 | 1 | HOSE ASSY | |
| 7 | 84719310 | 1 | HOSE ASSY | |
| 8 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |
| 9 | 84719296 | 1 | HOSE ASSY | |
| 10 | 84719297 | 1 | HOSE ASSY | |
| 11 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 12 | 80333216 | 1 | TUBE ASSY | |
| 13 | 80233254 | 1 | CONNECTOR | |
| 14 | 88662353 | 1 | SWIVEL NUT BRANCH TEE | |
| 15 | 80333223 | 1 | TUBE ASSY | |
| 16 | 80433119 | 1 | TUBE ASSY | |

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**Figure 8-17 Tool Pilot**



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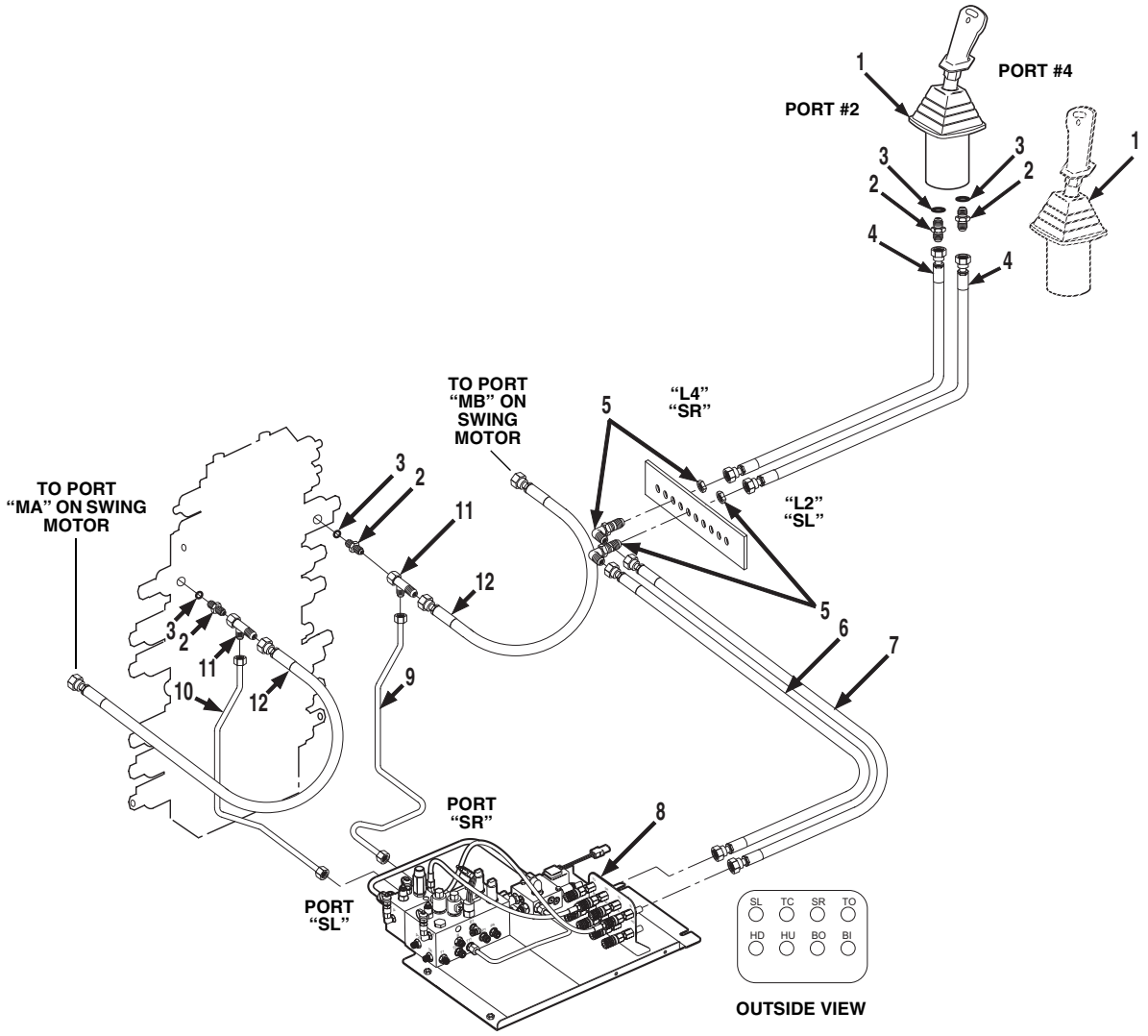
**Figure 8-17 Tool Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |
| 2 | | Ref | JOYSTICK, (see Figure 7-1 for details) | |
| 3 | 88662471 | 4 | CONNECTOR, (includes item 4) | |
| 4 | 88591204 | 4 | O-RING | |
| 5 | 84719412 | 2 | HOSE ASSY | |
| 6 | 80333045 | 2 | BULKHEAD UNION ELBOW | |
| 7 | 84719335 | 1 | HOSE ASSY | |
| 8 | 84719315 | 1 | HOSE ASSY | |
| 9 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 10 | 84719289 | 1 | HOSE ASSY | |
| 11 | 84719290 | 1 | HOSE ASSY | |

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**Figure 8-18 Swing & Swing Brake Pilot**



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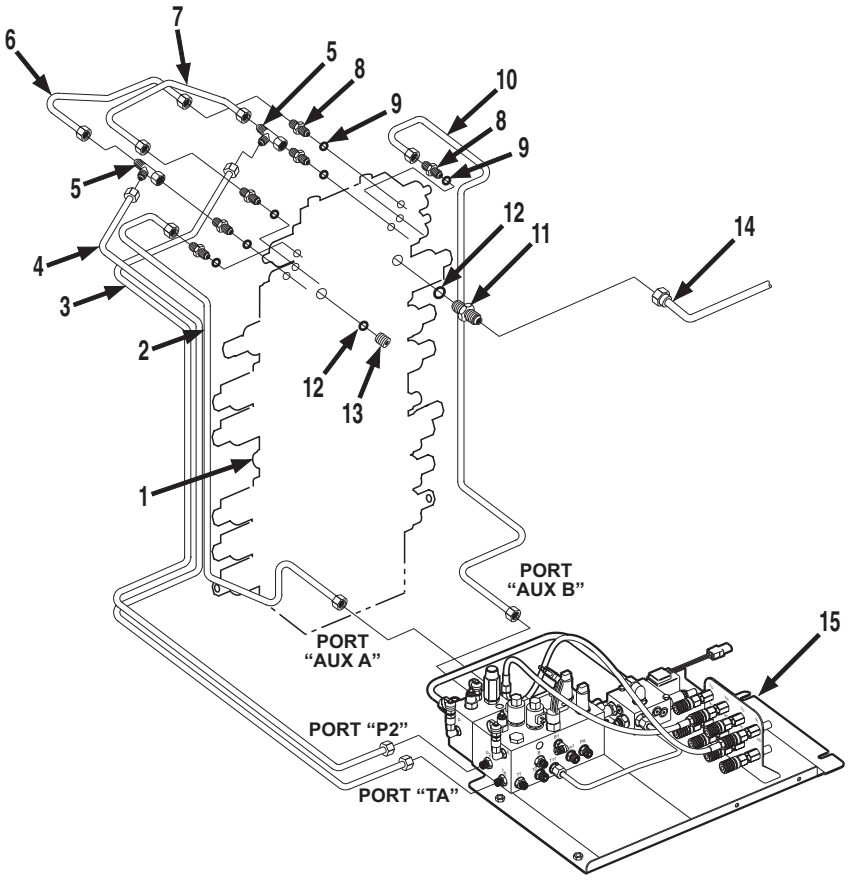
**Figure 8-18 Swing & Swing Brake Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | JOYSTICK, (see Figure 7-1 for details) | |
| 2 | 88662417 | 4 | CONNECTOR, (includes item 3) | |
| 3 | 88591204 | 4 | O-RING | |
| 4 | 84719412 | 2 | HOSE ASSY | |
| 5 | 80333045 | 2 | BULKHEAD UNION | |
| 6 | 84719336 | 1 | HOSE ASSY | |
| 7 | 84719313 | 1 | HOSE ASSY | |
| 8 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |
| 9 | 80333218 | 1 | TUBE ASSY | |
| 10 | 80333217 | 1 | TUBE ASSY | |
| 11 | 80233259 | 2 | SWIVEL NUT RUN TEE | |
| 12 | 84719559 | 2 | HOSE ASSY | |

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**Figure 8-19 Heater & Auxiliary Pilot**



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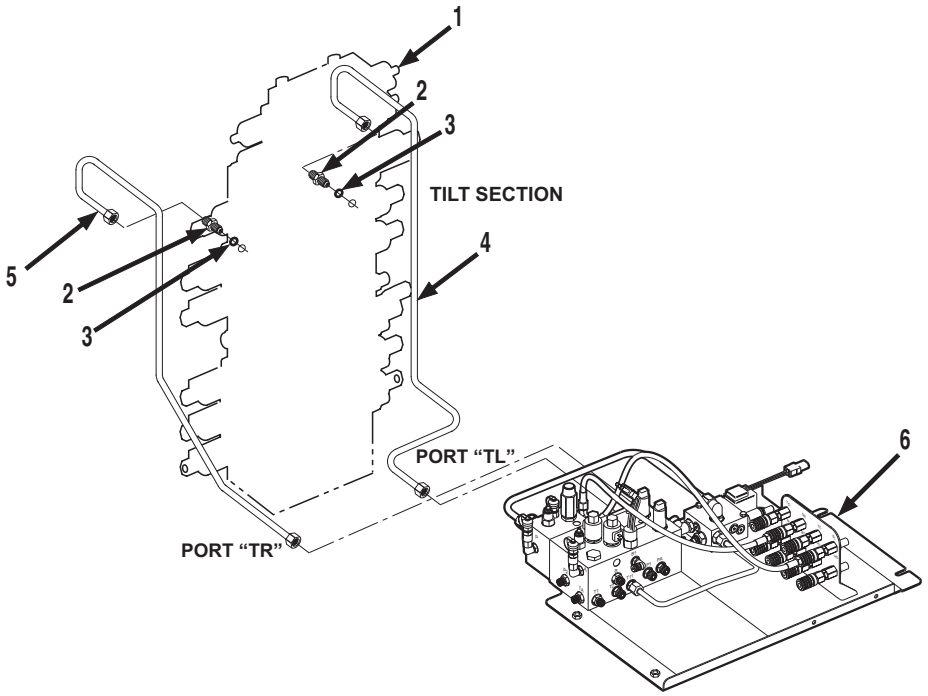
**Figure 8-19 Heater & Auxiliary Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 80333220 | 1 | TUBE ASSY | |
| 3 | 80333225 | 1 | TUBE ASSY | |
| 4 | 80333224 | 1 | TUBE ASSY | |
| 5 | 80233259 | 2 | SWIVEL NUT RUN TEE | |
| 6 | 80333227 | 1 | TUBE ASSY | |
| 7 | 80333226 | 1 | TUBE ASSY | |
| 8 | 88662471 | 6 | CONNECTOR, (includes item 9) | |
| 9 | 88591204 | 6 | O-RING | |
| 10 | 80333219 | 1 | TUBE ASSY | |
| 11 | 88662312 | 1 | CONNECTOR, (includes item 12) | |
| 12 | 88591207 | 2 | O-RING | |
| 13 | 88662195 | 1 | HEX PLUG, (includes item 12) | |
| 14 | 80333228 | 1 | TUBE ASSY | |
| 15 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |

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**Figure 8-20 Tilt Pilot**



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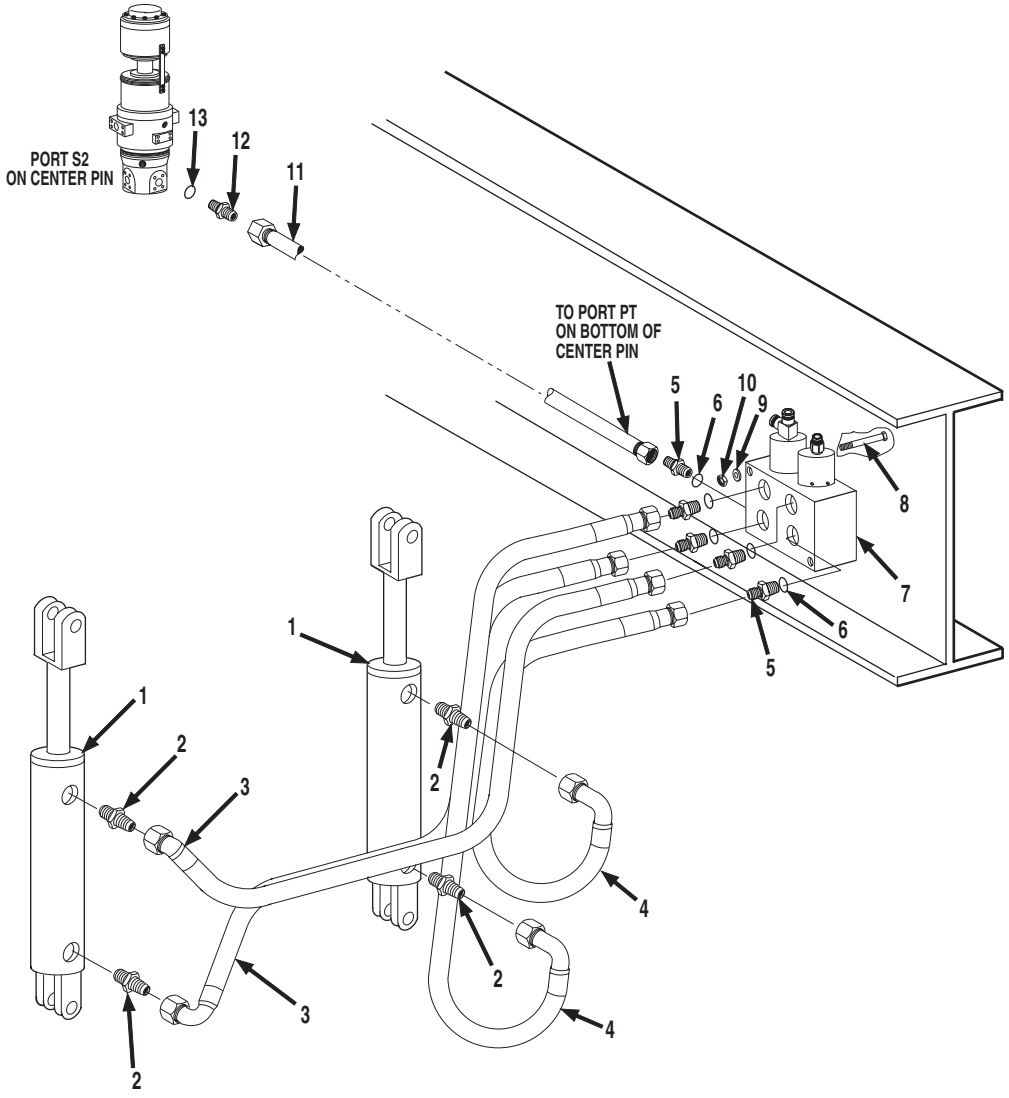
**Figure 8-20 Tilt Pilot**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | MAIN HYDRAULIC CONTROL VALVE, (see Figure 9-8 for details) | |
| 2 | 88662471 | 4 | CONNECTOR, (includes item 3) | |
| 3 | 88591204 | 4 | O-RING | |
| 4 | 80333222 | 1 | TUBE ASSY | |
| 5 | 80333221 | 1 | TUBE ASSY | |
| 6 | | Ref | PILOT MANIFOLD VALVE TRAY, (see Figure 9-12 for details) | |

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**Figure 8-21 Stabilizer Cylinder**



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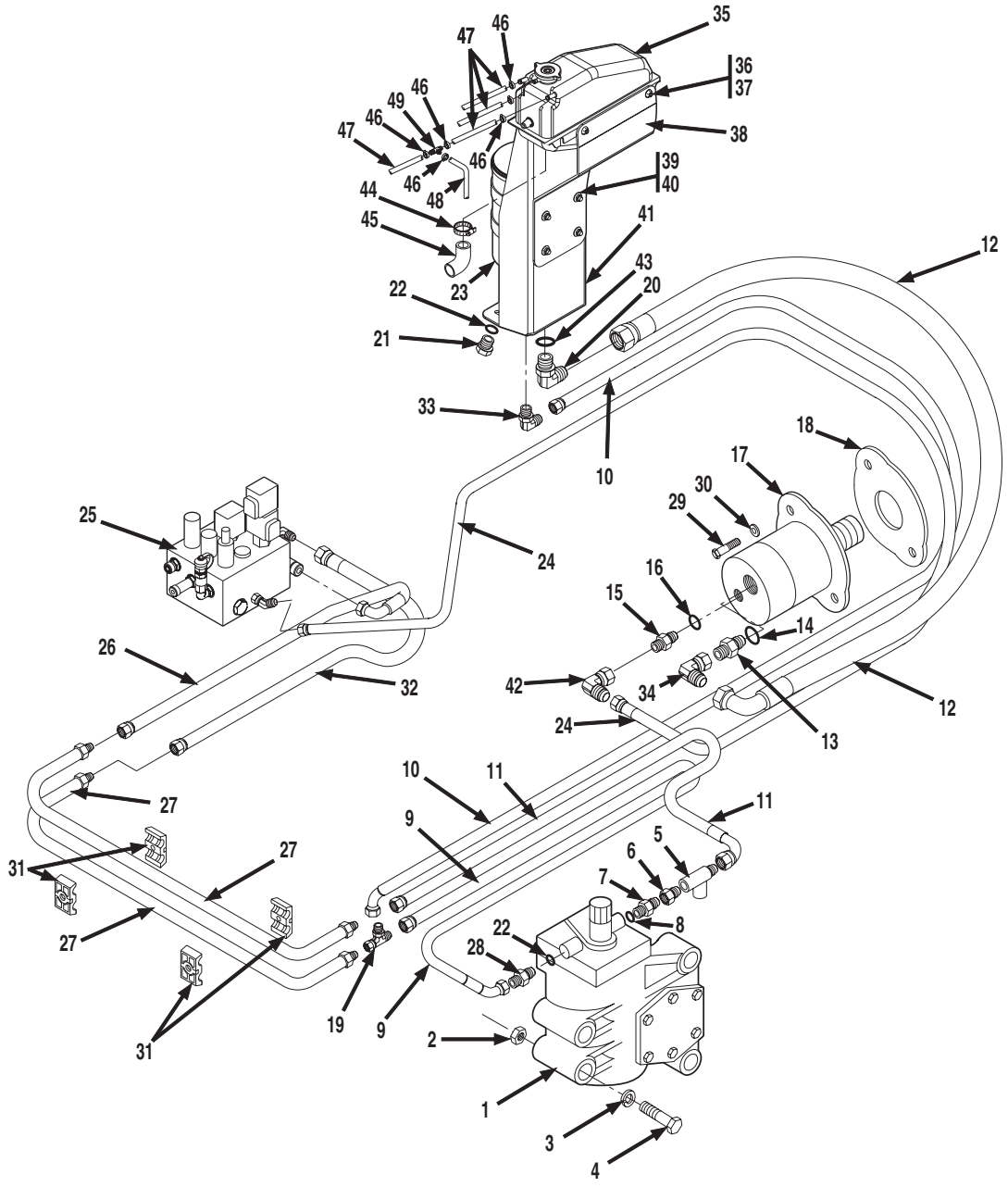
**Figure 8-21 Stabilizer Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | STABILIZER CYLINDER ASSY, (see Figure 9-4 for details) | |
| 2 | 88662401 | 4 | CONNECTOR | |
| 3 | 84719537 | 2 | HOSE ASSY | |
| 4 | 84719391 | 2 | HOSE ASSY | |
| 5 | | Ref | CONNECTOR, (see Figure 9-36 for details) | |
| 6 | | Ref | O-RING, (see Figure 9-36 for details) | |
| 7 | | Ref | STABILIZER VALVE ASSY, (see Figure 9-36 for details) | |
| 8 | 88201012 | 2 | HEX HD CAPSCREW, 1/4-20X2-3/4 | |
| 9 | 88501009 | 2 | LOCKWASHER, 1/4 | |
| 10 | 88501004 | 2 | HEX NUT, 1/4-20 | |
| 11 | 84719538 | 1 | HOSE ASSY | |
| 12 | 88662301 | 1 | CONNECTOR, (includes item 13) | |
| 13 | 88591204 | 1 | O-RING | |

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**Figure 8-22 Steering Gear**



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**Figure 8-22 Steering Gear**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | STEERING GEAR ASSY, (see Figure 9-37 for details) | |
| 2 | 88501314 | 4 | HEX NUT, 7/8-14 | |
| 3 | 77383118 | 4 | WASHER | |
| 4 | 83201096 | 4 | HEX HD CAPSCREW, 7/8-14X4, GR8, (loctite & torque to 490-510 lb-ft) | |
| 5 | 80633113 | 1 | SPECIAL RUN TEE | |
| 6 | 77363082 | 1 | REDUCING BUSHING | |
| 7 | 88662440 | 1 | CONNECTOR, (includes item 8) | |
| 8 | 88591204 | 1 | O-RING | |
| 9 | 84721019 | 1 | HOSE ASSY | |
| 10 | 84721018 | 1 | HOSE ASSY | |
| 11 | 84719943 | 1 | HOSE ASSY | |
| 12 | 84721022 | 1 | HOSE ASSY | |
| 13 | 88662309 | 1 | CONNECTOR, (includes item 14) | |
| 14 | 88591207 | 1 | O-RING | |
| 15 | 88662430 | 1 | CONNECTOR, (includes item 16) | |
| 16 | 88591206 | 1 | O-RING | |
| 17 | 80383384 | 1 | POWER STEERING PUMP | |
| 18 | 86671112 | 1 | POWER STEERING PUMP GASKET | |
| 19 | 88662438 | 1 | RUN TEE | |
| 20 | 88662422 | 1 | ELBOW, 45 DEGREES | |
| 21 | 88662175 | 1 | HEX HD PLUG, (includes item 22) | |
| 22 | 88591205 | 3 | O-RING | |
| 23 | | Ref | POWER STEERING RESERVOIR ASSY, (see Figure 4-4 for details) | |
| 24 | 84721017 | 1 | HOSE ASSY | |
| 25 | | Ref | STEERING VALVE ASSY, (see Figure 9-37 for details) | |
| 26 | 84719932 | 1 | HOSE ASSY | |
| 27 | 80483051 | 2 | TUBE ASSY | |
| 28 | 88662302 | 1 | CONNECTOR, (includes item 22) | |
| 29 | 83191040 | 2 | SOCKET HD CAPSCREW, M10-1.5X 30, GR5 | |
| 30 | 83191013 | 2 | LOCKWASHER, M10 | |
| 31 | 91083217 | 4 | CLAMP | |
| 32 | 84719942 | 1 | HOSE ASSY | |
| 33 | 88662419 | 1 | ELBOW, 45 DEGREES, (includes item 22) | |
| 34 | 88662375 | 1 | ELBOW, 90 DEGREES | |
| 35 | 80973070 | 1 | SURGE TANK | |
| 36 | 77143006 | 4 | WHIZ-LOK NUT, 5/16-18 | |
| 37 | 77143003 | 4 | WHIZ-LOK SCREW, 5/16-18 | |
| 38 | 80481134 | 1 | SURGE TANK PLATE | |
| 39 | 77143015 | 4 | WHIZ-LOK NUT, 3/8-16 | |
| 40 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 41 | 80481096 | 1 | RESERVOIR BRACKET | |
| 42 | 88662372 | 1 | ELBOW, 90 DEGREES, (swivel nut) | |
| 43 | 88591209 | 1 | O-RING | |
| 44 | 86971172 | 1 | HOSE CLAMP | |
| 45 | 80483228 | 1 | FORMED ELBOW | |
| 46 | 86883106 | 8 | HOSE CLAMP | |
| 47 | | AR | HOSE ASSY | |
| 48 | | AR | HOSE ASSY | |

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**Figure 8-22 Steering Gear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 49 | 88662548 | 1 | BARBED TEE | |

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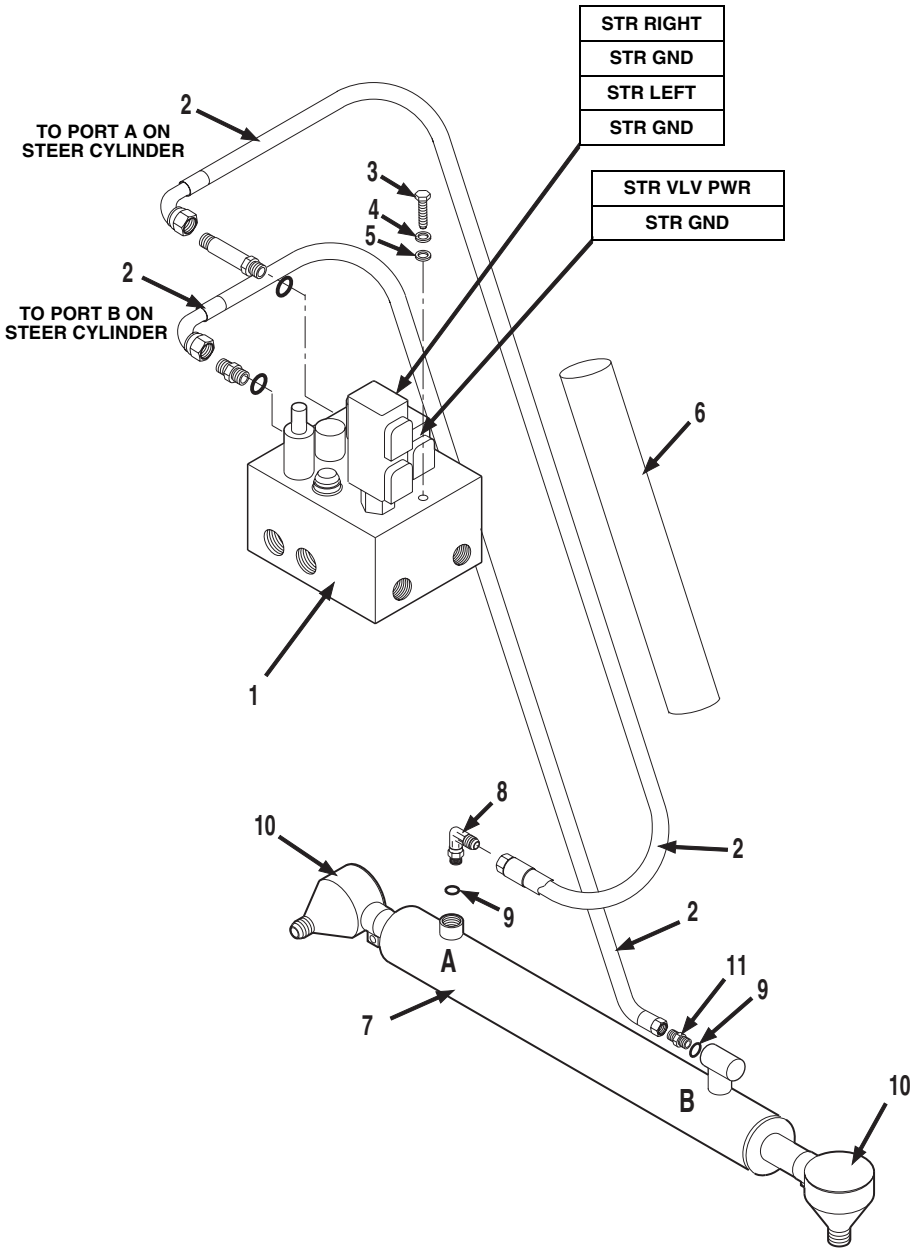
**Figure 8-22 Steering Gear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 8-23 Remote Steering**



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**Figure 8-23 Remote Steering**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | STEERING VALVE ASSY, (see Figure 9-37 for details) | |
| 2 | 84719941 | 2 | HOSE ASSY | |
| 3 | 91143191 | 2 | HEX HD CAPSCREW, 1/4-20X4-1/4 | |
| 4 | 88551009 | 2 | LOCKWASHER, 1/4 | |
| 5 | 88561002 | 2 | FLAT WASHER, 1/4 | |
| 6 | 80681171 | 1 | HOSE COVER | |
| 7 | | Ref | STEERING CYLINDER ASSY, (see Figure 9-5 for details) | |
| 8 | 88662329 | 1 | ELBOW, 90 DEGREES, (includes item 9) | |
| 9 | 88591204 | 2 | O-RING | |
| 10 | 80983161 | 2 | VERTICAL SOCKET ASSY | |
| 11 | 88662301 | 1 | CONNECTOR, (includes item 9) | |

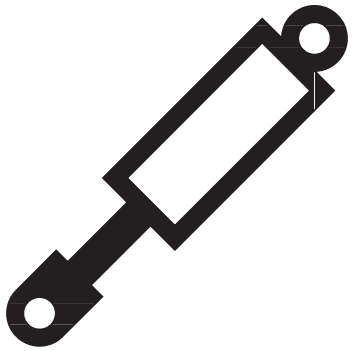
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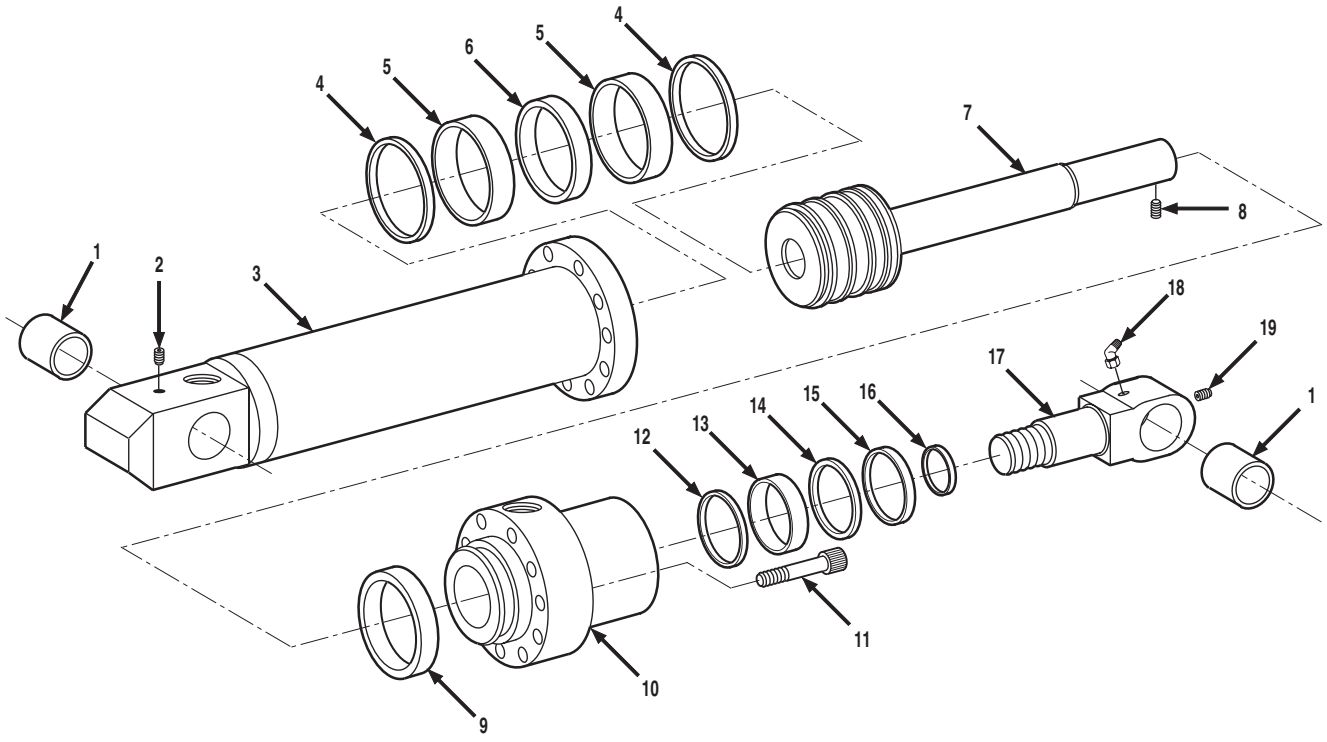
# SECTION 9
# HYDRAULIC COMPONENTS



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**Figure 9-1 Hoist Cylinder Assembly**



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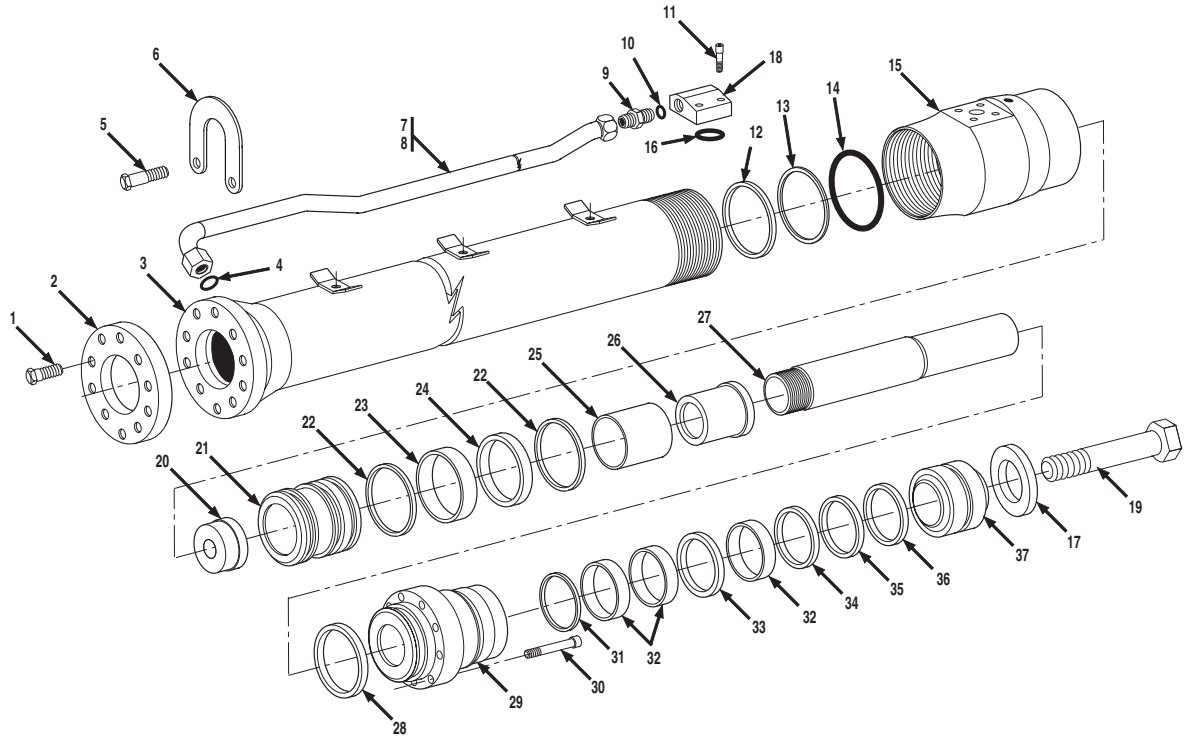
**Figure 9-1 Hoist Cylinder Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80005086 | 2 | HOIST CYLINDER ASSY, (includes all items) | |
| 1 | 80423042 | 2 | BUSHING | |
| 2 | 80003453 | 1 | THREADED PLUG | |
| 3 | 80006067 | 1 | CYLINDER TUBE WELDMENT | |
| 4 | 80003640 | 2 | INGESTION RING | |
| 5 | 80003639 | 2 | BEARING | |
| 6 | 80003638 | 1 | PISTON SEAL | |
| 7 | 80005089 | 1 | PISTON ROD ASSY | |
| 8 | 88221386 | 2 | HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2 | |
| 9 | 80003617 | 1 | STATIC SEAL | |
| 10 | 80001575 | 1 | CYLINDER HEAD | |
| 11 | 88211113 | 9 | HEX SOCKET HD CAPSCREW, 1/3-13X3, (loctite & torque to 100-110 lb-ft) | |
| 12 | 80003438 | 1 | INGESTION RING | |
| 13 | 80003437 | 2 | BEARING | |
| 14 | 80003624 | 1 | BUFFER SEAL | |
| 15 | 80003440 | 1 | ROD SEAL | |
| 16 | 80003644 | 1 | ROD WIPER | |
| 17 | 80001126 | 1 | ROD EYE | |
| 18 | 88671018 | 1 | LUBE FITTING, 45 DEGREES, 1/8 | |
| 19 | 88711280 | 1 | THREADED PLUG | |
| | 80003621 | 1 | PACKING KIT, (includes items 4, 5, 6, 9, 12, 13, 14, 15 & 16) | |

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**Figure 9-2 Boom Cylinder**



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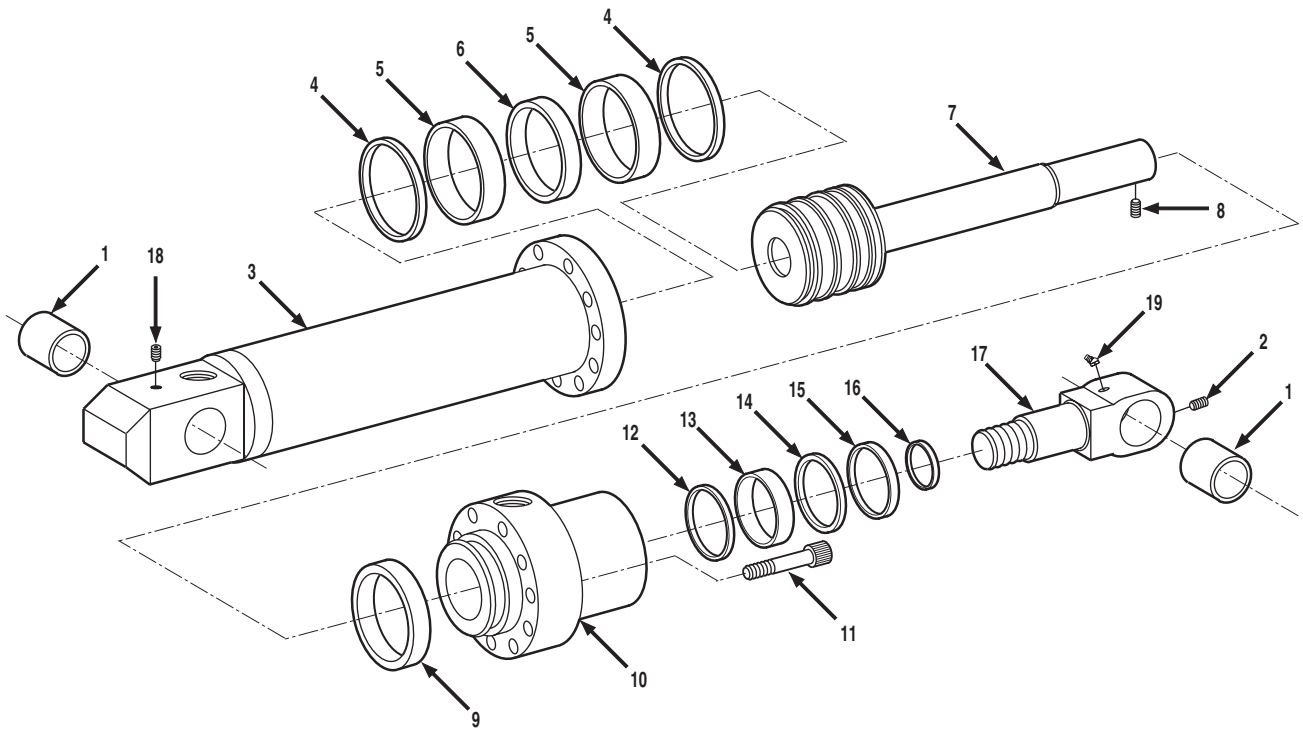
**Figure 9-2 Boom Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80005133 | 1 | BOOM CYLINDER ASSY, (includes items 3 thru 38) | |
| 1 | 80323024 | 8 | HEX HD CAPSCREW, 5/8-11X2, GR8 | |
| 2 | 80321096 | 1 | BOOM CYLINDER MOUNT PLATE | |
| 3 | 80006069 | 1 | CYLINDER TUBE WELDMENT | |
| 4 | 88591510 | 1 | O-RING | |
| 5 | 88201094 | 2 | HEX HD CAPSCREW, 5/8-11X1-1/4, GR5 | |
| 6 | 80001642 | 1 | PROTECTOR PLATE | |
| 7 | 84719470 | 1 | HOSE ASSY | |
| 8 | 91403528 | 1 | HOSE GUARD | |
| 9 | 88662304 | 1 | CONNECTOR, (includes item 10) | |
| 10 | 88591207 | 1 | O-RING | |
| 11 | 88211071 | 4 | SOCKET HD CAPSCREW, 3/8-16X1, GR8 | |
| 12 | 80003616 | 1 | STATIC SEAL | |
| 13 | 80003666 | 1 | BACK-UP RING | |
| 14 | 80003667 | 1 | O-RING | |
| 15 | 80001607 | 1 | THREADED COLLAR | |
| 16 | 91083106 | 1 | O-RING | |
| 17 | 80001614 | 1 | WASHER | |
| 18 | 80001695 | 1 | PORT BLOCK | |
| 19 | 80003634 | 1 | SOCKET HD CAPSCREW, 1-1/4-12X4, GR8 | |
| 20 | 80003734 | 1 | CUSHION STOP | |
| 21 | 80001580 | 1 | PISTON | |
| 22 | 80003637 | 2 | INGESTION RING | |
| 23 | 80003636 | 1 | BEARING | |
| 24 | 80003635 | 1 | PISTON SEAL | |
| 25 | 80003620 | 1 | CUSHION BEARING | |
| 26 | 80001584 | 1 | PISTON COLLAR | |
| 27 | 80001579 | 1 | PISTON ROD | |
| 28 | 80003617 | 1 | STATIC SEAL | |
| 29 | 80001669 | 1 | CYLINDER HEAD | |
| 30 | 88211112 | 9 | SOCKET HD CAPSCREW, 1/2-13X2-3/4, GR8 | |
| 31 | 80003610 | 1 | INGESTION RING | |
| 32 | 80003611 | 3 | BEARING | |
| 33 | 80003612 | 1 | BUFFER SEAL | |
| 34 | 80003613 | 1 | ROD SEAL | |
| 35 | 80003614 | 1 | BACK-UP RING | |
| 36 | 80003615 | 1 | ROD WIPER | |
| 37 | 80003633 | 1 | SWIVEL BEARING | |
| | 80003608 | 1 | PACKING KIT, (includes items 12,13, 14, 22, 23, 24, 28 & 31 thru 36) | |

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**Figure 9-3 Tool Cylinder**



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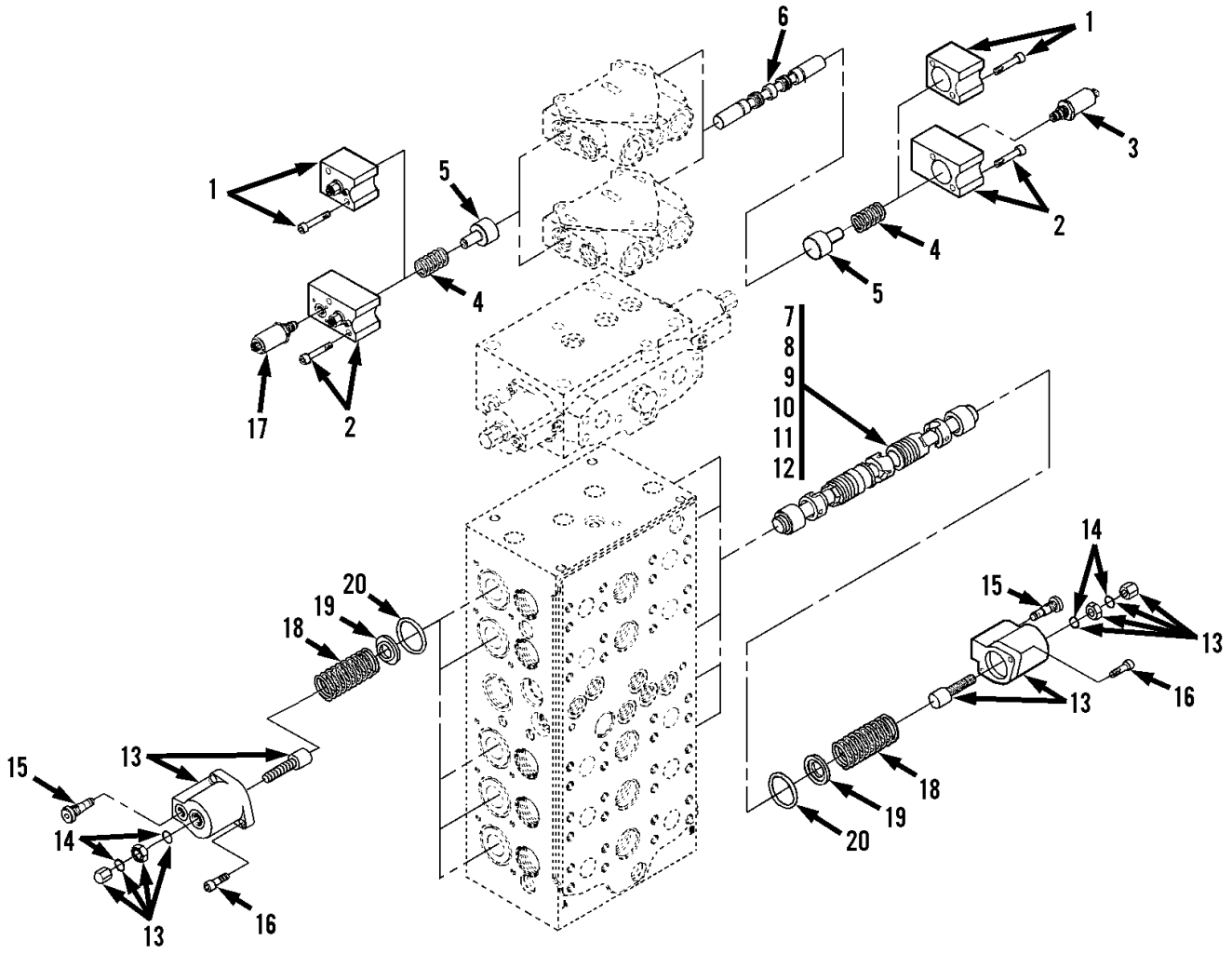
**Figure 9-3 Tool Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80005087 | 1 | TOOL CYLINDER ASSY, (includes all items) | |
| 1 | 80423042 | 2 | BUSHING | |
| 2 | 88711280 | 1 | HEX SOCKET PIPE PLUG, 1/8 | |
| 3 | 80006068 | 1 | CYLINDER TUBE WELDMENT | |
| 4 | 80003643 | 2 | INGESTION RING | |
| 5 | 80003642 | 2 | BEARING | |
| 6 | 80003641 | 1 | PISTON SEAL | |
| 7 | 80005090 | 1 | PISTON ROD ASSY | |
| 8 | 88221386 | 2 | HEX SOCKET SET SCREW, 3/8-16X1/2 | |
| 9 | 80003628 | 1 | STATIC SEAL | |
| 10 | 80001578 | 1 | CYLINDER HEAD | |
| 11 | 88211113 | 9 | HEX SOCKET HD CAPSCREW, 1/2-13X3, GR8 | |
| 12 | 80003438 | 1 | INGESTION RING | |
| 13 | 80003437 | 2 | BEARING | |
| 14 | 80003624 | 1 | BUFFER SEAL | |
| 15 | 80003440 | 1 | ROD SEAL | |
| 16 | 80003644 | 1 | ROD WIPER | |
| 17 | 80001126 | 1 | ROD EYE | |
| 18 | 80003453 | 1 | THREADED PLUG | |
| 19 | 88671016 | 1 | LUBE FITTING, 90 DEGREES, 1/8 | |
| | 80003626 | 1 | PACKING KIT, (includes items 5, 6, 9 & 12 thru 16) | |

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**Figure 9-4 Stabilizer Cylinder**



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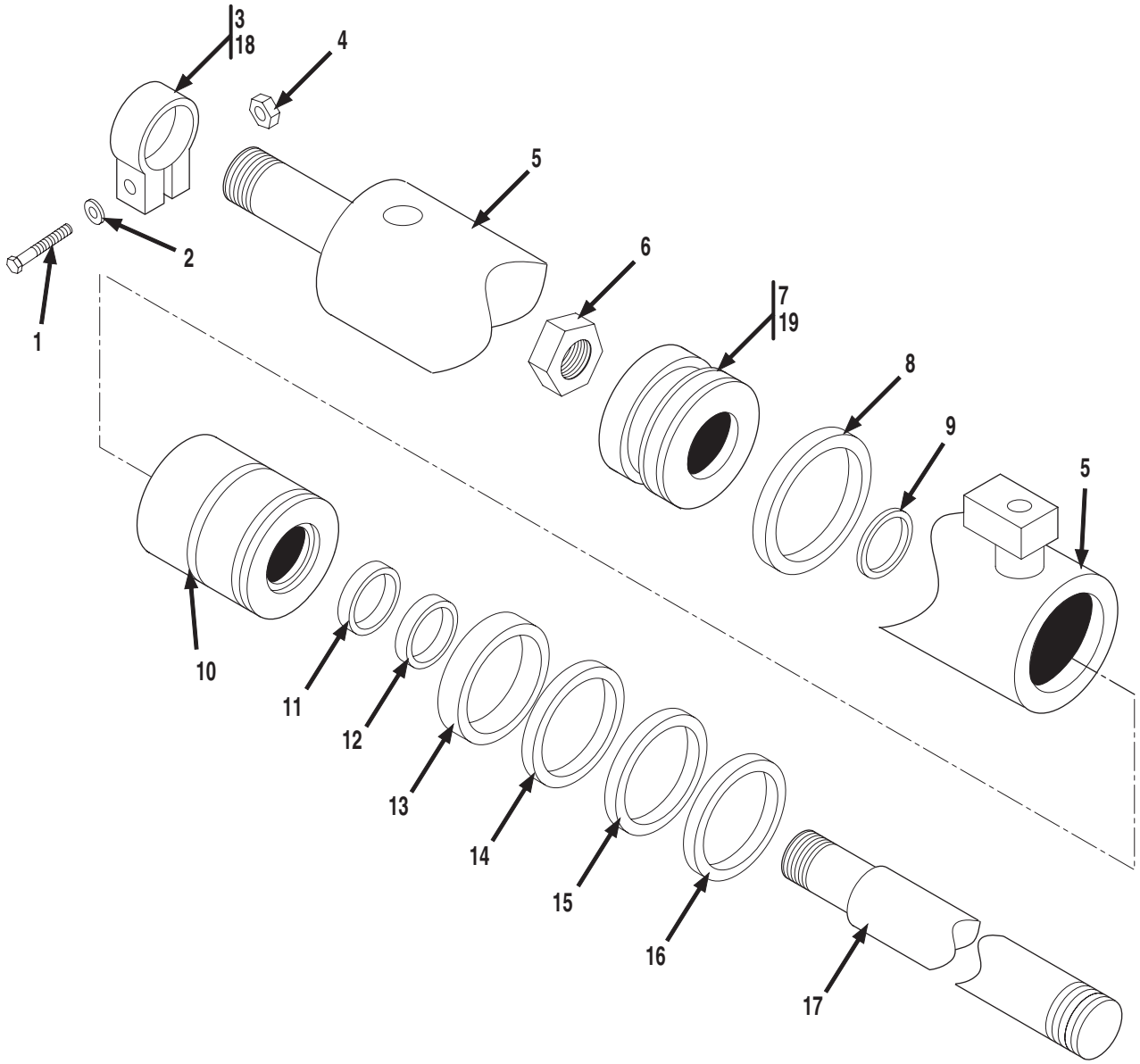
**Figure 9-4 Stabilizer Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383097 | 1 | STABILIZER CYLINDER, (includes all items) | |
| 1 | 80384149 | 1 | CYLINDER BASE | |
| 2 | 80384156 | 8 | TIE ROD NUT | |
| 3 | 80384160 | 2 | CLEVIS PIN | |
| 4 | 77364083 | 2 | PIN CLIP | |
| 5 | 80384159 | 1 | PIPE PLUG | |
| 6 | | 2 | O-RING | |
| 7 | 80384157 | 4 | TIE ROD | |
| 8 | 80384153 | 1 | TUBE | |
| 9 | 80384158 | 1 | PISTON NUT | |
| 10 | 80384151 | 1 | PISTON | |
| 11 | | 2 | BACK-UP RING | |
| 12 | 80384155 | 1 | CYLINDER HEAD | |
| 13 | 80984424 | 1 | U-CUP | |
| 14 | 80984426 | 1 | CLEVIS | |
| 15 | | 1 | WIPER | |
| 16 | 80384154 | 1 | ROD | |
| 17 | 80384152 | 1 | CLEVIS NUT | |
| 18 | 77364094 | 1 | CAPSCREW | |
| 19 | | 1 | O-RING | |
| | 80384150 | 1 | PACKING KIT, (includes items 6, 11, 13, 15 & 19) | |
| | | | **QUANTITIES SHOWN ARE FOR ONE STABILIZER CYLINDER ONLY.** | |

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**Figure 9-5 Remote Steering Hydraulic Cylinder**



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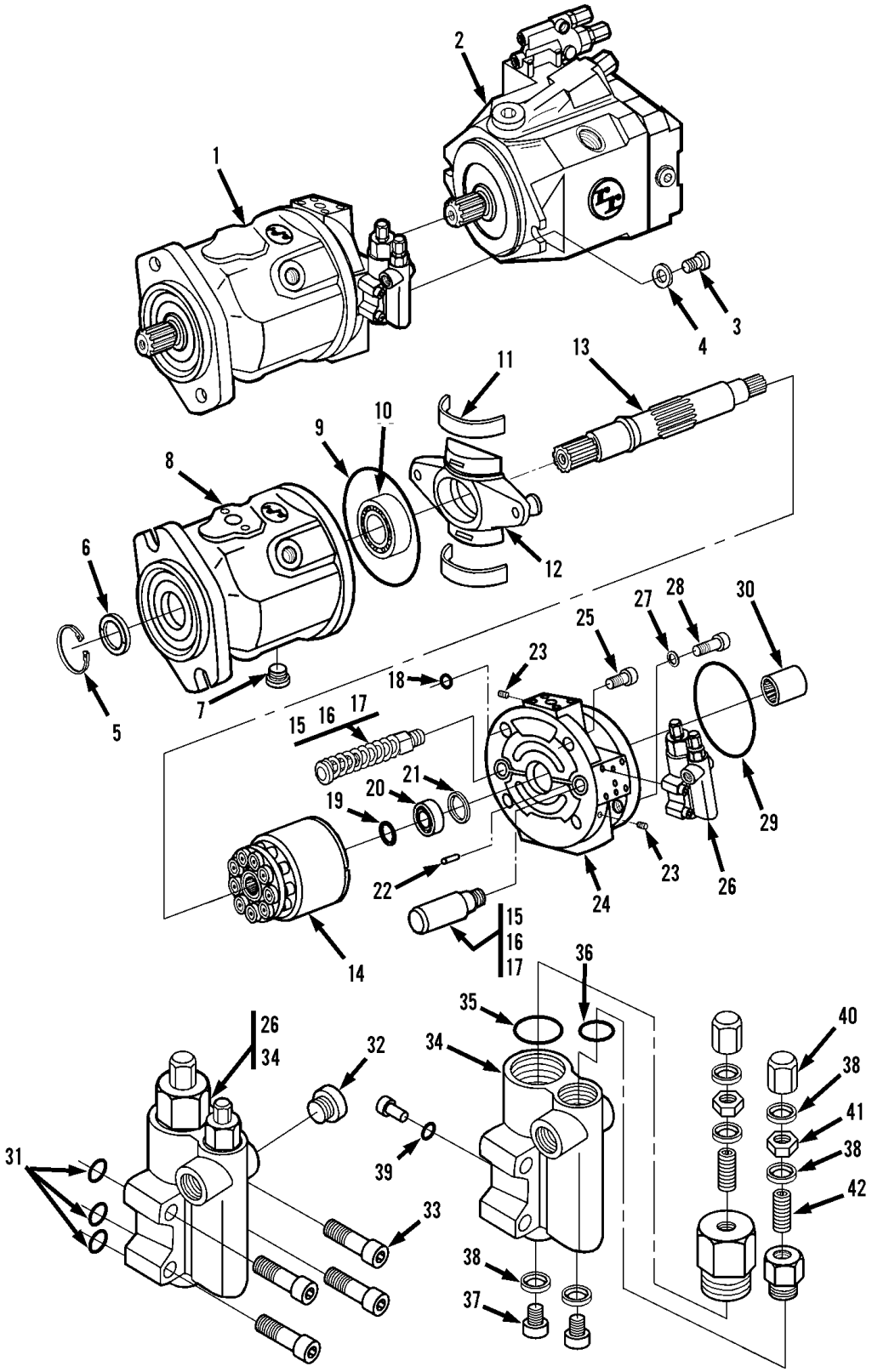
**Figure 9-5 Remote Steering Hydraulic Cylinder**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80483120 | 1 | REMOTE STEERING HYDRAULIC CYLINDER, (includes all items) | |
| | 80484042 | 1 | PISTON & ROD ASSY, (includes items 6, 7, 8, 9 & 17) | |
| 1 | 80984073 | 1 | HEX HD CAPSCREW, 5/8-18X2-3/4 | |
| 2 | 80984074 | 1 | LOCKWASHER, 5/8 | |
| 3 | 80984072 | 1 | CLAMP | |
| 4 | 80984075 | 1 | HEX NUT, 5/8-18 | |
| 5 | | 1 | TUBE | |
| 6 | | 1 | HEX LOCKNUT | |
| 7 | | 1 | PISTON | |
| 8 | | 1 | PISTON RING | |
| 9 | | 1 | O-RING | |
| 10 | | 1 | GLAND | |
| 11 | | 1 | O-RING | |
| 12 | | 1 | ROD WIPER | |
| 13 | | 1 | SEAL RING | |
| 14 | | 1 | RETAINING RING | |
| 15 | | 1 | RETAINING RING | |
| 16 | | 1 | BACK-UP RING | |
| 17 | | 1 | PISTON ROD | |
| 18 | 83074399 | 1 | CLAMP ASSY, (includes items 1 thru 4) | |
| 19 | 80484043 | 1 | PISTON ASSY, (includes items 7 & 8) | |
| | 80484044 | 1 | GLAND SERVICE KIT, (includes items 10, 11, 12, 13 & 16) | |
| | 80484045 | 1 | PACKING KIT, (includes items 6, 8, 9,11, 12, 13, 14, 15 & 16) | |

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**Figure 9-6 Main Pump - Front**



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**Figure 9-6 Main Pump - Front**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80333012 | 1 | MAIN PUMP, (includes all items) | |
| 1 | 80334274 | 1 | TANDEM PUMP FRONT SECTION, (includes all items on Figure 9-6) | |
| 2 | | Ref | TANDEM PUMP REAR SECTION, (see Figure 9-7 for details) | |
| 3 | 80334275 | 2 | CAPSCREW | |
| 4 | 80334276 | 2 | WASHER | |
| 5 | 80334277 | 1 | SNAP RING | |
| 6 | 80334337 | 1 | SHAFT SEAL | |
| 7 | 80334338 | 1 | PLUG | |
| 8 | 80334278 | 1 | HOUSING | |
| 9 | 80334339 | 1 | O-RING | |
| 10 | 80334279 | 1 | ROLLER BEARING | |
| 11 | 80334280 | 2 | SLIDING DISC | |
| 12 | 80334281 | 1 | CRADLE ASSY | |
| 13 | 80334282 | 1 | SHAFT | |
| 14 | 80334283 | 1 | ROTARY GROUP | |
| 15 | 80334284 | 1 | CONTROL PISTON ASSY, (includes items 16 & 17) | |
| 16 | 80334285 | 1 | SPRING | |
| 17 | 80334286 | 1 | STROKE LIMITING RING | |
| 18 | 80334340 | 4 | O-RING | |
| 19 | 80334287 | AR | ADJUSTING DISC, (3.00 mm) | |
| | 80334288 | AR | ADJUSTING DISC, (2.10 mm) | |
| | 80334289 | AR | ADJUSTING DISC, (2.15 mm) | |
| | 80334290 | AR | ADJUSTING DISC, (2.20 mm) | |
| | 80334291 | AR | ADJUSTING DISC, (2.25 mm) | |
| | 80334292 | AR | ADJUSTING DISC, (2.30 mm) | |
| | 80334293 | AR | ADJUSTING DISC, (2.35 mm) | |
| | 80334394 | AR | ADJUSTING DISC, (2.40 mm) | |
| | 80334295 | AR | ADJUSTING DISC, (2.45 mm) | |
| | 80334296 | AR | ADJUSTING DISC, (2.50 mm) | |
| | 80334297 | AR | ADJUSTING DISC, (2.55 mm) | |
| | 80334298 | AR | ADJUSTING DISC, (2.60 mm) | |
| | 80334299 | AR | ADJUSTING DISC, (2.65 mm) | |
| | 80334300 | AR | ADJUSTING DISC, (2.70 mm) | |
| | 80334301 | AR | ADJUSTING DISC, (2.75 mm) | |
| | 80334302 | AR | ADJUSTING DISC, (2.80 mm) | |
| | 80334303 | AR | ADJUSTING DISC, (2.85 mm) | |
| | 80334304 | AR | ADJUSTING DISC, (2.90 mm) | |
| | 80334305 | AR | ADJUSTING DISC, (2.95 mm) | |
| 20 | 80334306 | 1 | ROLLER BEARING | |
| 21 | 80334307 | 1 | WASHER | |
| 22 | 80334308 | 1 | DOWEL PIN | |
| 23 | 80334342 | 2 | BREAK-OFF PLUG | |
| 24 | 80334309 | 1 | PORT BLOCK ASY | |
| 25 | 80334310 | 4 | CAPSCREW | |
| 26 | 80334311 | 1 | CONTROL VALVE ASSY, (includes items 31 thru 42) | |
| 27 | 80334312 | 1 | WASHER | |
| 28 | 80334313 | 2 | CAPSCREW | |
| 29 | 80334341 | 1 | O-RING | |
| 30 | 80334314 | 1 | COUPLING | |

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**Figure 9-6 Main Pump - Front (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 31 | 80334343 | 3 | O-RING | |
| 32 | 80334344 | 1 | PLUG | |
| 33 | 80334316 | 4 | CAPSCREW | |
| 34 | 80334317 | 1 | PILOT VALVE, (includes items 35 thru 42) | |
| 35 | 80334345 | 1 | O-RING | |
| 36 | 80334346 | 1 | O-RING | |
| 37 | 80334347 | 2 | PLUG | |
| 38 | 80334348 | 6 | SEAL RING | |
| 39 | 80334349 | 1 | O-RING | |
| 40 | 80334318 | 2 | ACORN NUT | |
| 41 | 80334319 | 2 | JAM NUT | |
| 42 | 80334320 | 2 | ADJUSTING SCREW | |
| | 80334273 | 1 | SEAL KIT, (includes items 6, 7, 9, 14, 23 & 29) | |
| | 80334315 | 1 | SEAL KIT, (includes items 31, 32, 35, 36, 37, 38, 39) | |
| | | | **FOR ITEM 19, ADJUSTING DISC, REFER TO REXROTH PUMP REPAIR INSTRUCTION MANUAL #92711-02** | |

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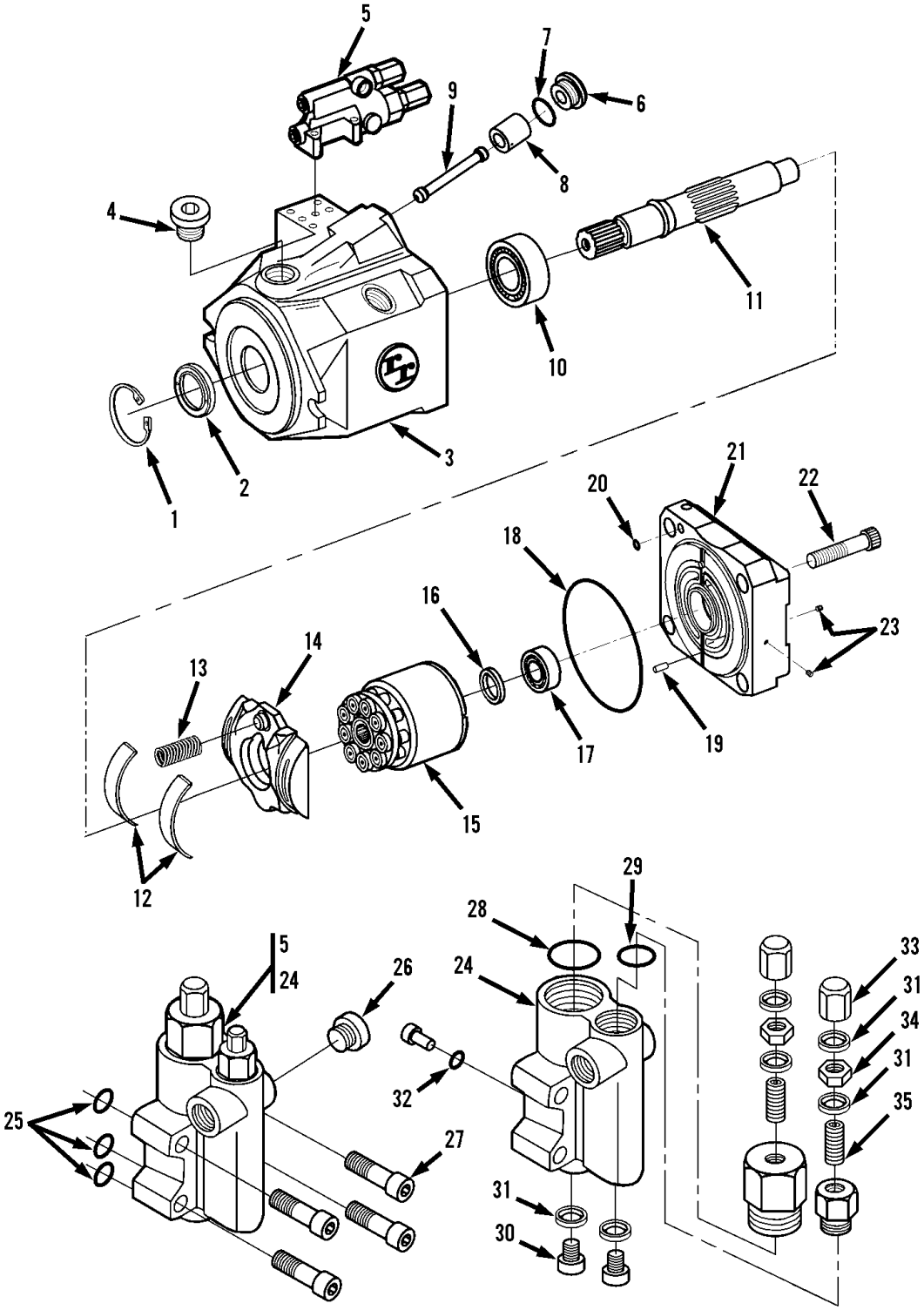
**Figure 9-6 Main Pump - Front (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 9-7 Main Pump - Rear**



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**Figure 9-7 Main Pump - Rear**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80334321 | | TANDEM PUMP REAR SECTION, (includes all items) | |
| 1 | 80334007 | 1 | SNAP RING | |
| 2 | 80334350 | 1 | SHAFT SEAL | |
| 3 | 80334323 | 1 | HOUSING | |
| 4 | 80334351 | 1 | PLUG | |
| 5 | 80334324 | 1 | CONTROL VALVE ASSY, (includes items 24 thru 35) | |
| 6 | 80334352 | 1 | PLUG | |
| 7 | 80334353 | 1 | O-RING | |
| 8 | 80334325 | 1 | PISTON | |
| 9 | 80334326 | 1 | ROD | |
| 10 | 80334327 | 1 | BEARING | |
| 11 | 80334328 | 1 | SHAFT | |
| 12 | 80334329 | 2 | SWASH PLATE BEARING | |
| 13 | 80334330 | 1 | SPRING | |
| 14 | 80334331 | 1 | SWASH PLATE | |
| 15 | 80334332 | 1 | ROTARY GROUP | |
| 16 | 80334015 | AR | PRELOAD SHIM, (3.00mm) | |
| | 80334016 | AR | PRELOAD SHIM, (2.10mm) | |
| | 80334017 | AR | PRELOAD SHIM, (2.15mm) | |
| | 80334018 | AR | PRELOAD SHIM, (2.20mm) | |
| | 80334019 | AR | PRELOAD SHIM, (2.25mm) | |
| | 80334020 | AR | PRELOAD SHIM, (2.30mm) | |
| | 80334021 | AR | PRELOAD SHIM, (2.35mm) | |
| | 80334022 | AR | PRELOAD SHIM, (2.40mm) | |
| | 80334023 | AR | PRELOAD SHIM, (2.45mm) | |
| | 80334024 | AR | PRELOAD SHIM, (2.50mm) | |
| | 80334025 | AR | PRELOAD SHIM, (2.55mm) | |
| | 80334026 | AR | PRELOAD SHIM, (2.60mm) | |
| | 80334027 | AR | PRELOAD SHIM, (2.65mm) | |
| | 80334028 | AR | PRELOAD SHIM, (2.70mm) | |
| | 80334029 | AR | PRELOAD SHIM, (2.75mm) | |
| | 80334030 | AR | PRELOAD SHIM, (2.80mm) | |
| | 80334031 | AR | PRELOAD SHIM, (2.85mm) | |
| | 80334032 | AR | PRELOAD SHIM, (2.90mm) | |
| | 80334033 | AR | PRELOAD SHIM, (2.95mm) | |
| 17 | 80334333 | 1 | ROLLER BEARING | |
| 18 | 80334354 | 1 | O-RING | |
| 19 | 80334308 | 1 | DOWEL PIN | |
| 20 | 80334355 | 1 | O-RING | |
| 21 | 80334334 | 1 | PORT BLOCK ASSY | |
| 22 | 80334335 | 4 | CAPSCREW | |
| 23 | 80334342 | 1 | BREAK-OFF PLUG | |
| 24 | 80334336 | 1 | PILOT VALVE, (includes items 25 thru 35) | |
| 25 | 80334343 | 3 | O-RING | |
| 26 | 80334344 | 1 | PLUG | |
| 27 | 80334316 | 4 | CAPSCREW | |
| 28 | 80334345 | 1 | O-RING | |
| 29 | 80334346 | 1 | O-RING | |
| 30 | 80334356 | 2 | PLUG | |

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**Figure 9-7 Main Pump - Rear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 31 | 80334348 | 6 | SEAL RING | |
| 32 | 80334349 | 1 | O-RING | |
| 33 | 80334318 | 2 | ACORN NUT | |
| 34 | 80334319 | 2 | JAM NUT | |
| 35 | 80334320 | 2 | ADJUSTING SCREW | |
| | 80334322 | 1 | SEAL KIT, (includes items 1, 2, 4, 6, 7, 18, 20, 23, 25, 26 & 28 thru 32) | |

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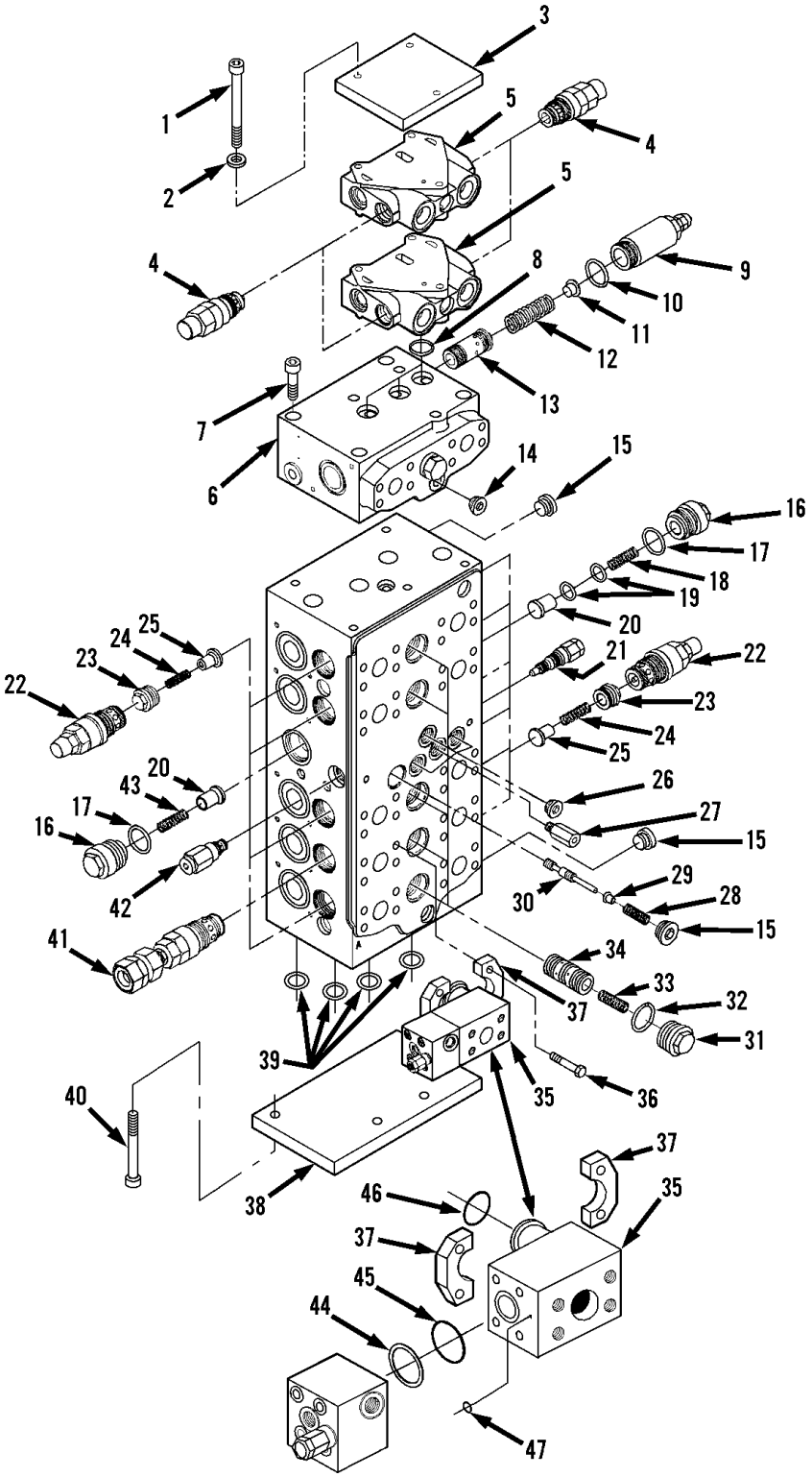
**Figure 9-7 Main Pump - Rear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 9-8 Main Hydraulic Control Valve**



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**Figure 9-8 Main Hydraulic Control Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80333233 | 1 | MAIN HYDRAULIC CONTROL VALVE ASSY, (includes all items on Figures 9-8 thru 9-10) | |
| | 80333234 | 1 | MAIN HYDRAULIC CONTROL VALVE ASSY w/AUX, (includes all items on Figures 9-8 thru 9-10) | |
| 1 | 80334151 | 3 | SOCKET HD CAPSCREW, (M12X 1.75 X130), GR12.9, (lubricate & torque to 41 lb-ft), (auxiliary only) | |
| | 83191057 | 3 | SOCKET HD CAPSCREW, (M12X 1.75 X80), GR12.9, (lubricate & torque to 41 lb-ft), (non auxiliary only) | |
| 2 | 80334183 | 4 | WASHER | |
| 3 | 80334150 | 1 | PLATE | |
| 4 | 80334153 | 4 | RELIEF VALVE ASSY, (see Figure 9-11 for seal kit), (lubricate & torque to 66 lb-ft) | |
| 5 | 80334154 | 2 | HOUSING | |
| 6 | | Ref | HOUSING, (see Figure 9-10 for details) | |
| 7 | 80334155 | 4 | SOCKET HD CAPSCREW, (lubricate & torque to 52 lb-ft) | |
| 8 | 80334540 | 3 | O-RING | |
| 9 | 80334156 | 1 | REDUCER, (lubricate & torque to 90 lb-ft) | |
| 10 | 80334539 | 1 | O-RING | |
| 11 | 80334158 | 1 | SPRING RETAINER | |
| 12 | 80334159 | 1 | COMPRESSION SPRING | |
| 13 | | 1 | SPOOL | |
| 14 | 80334161 | 1 | LOCKING SCREW | |
| 15 | 80334357 | 1 | LOCKING SCREW, (lubricate & torque to 118 lb-ft) | |
| 16 | 80334167 | 2 | LOCKING SCREW, (lubricate & torque to 103 lb-ft) | |
| 17 | | 2 | O-RING | |
| 18 | 80334168 | 1 | COMPRESSION SPRING | |
| 19 | 80334169 | 2 | WASHER | |
| 20 | 80334170 | 2 | CONE | |
| 21 | 80334358 | 1 | LOAD SENSE RELIEF VALVE ASSY, (see Figure 9-11 for seal kit) | |
| 22 | 80334166 | 10 | PORT RELIEF VALVE ASSY, (see Figure 9-11 for seal kit), (lubricate & torque to 74 lb-ft) | |
| 23 | 80334163 | 10 | LOCKING SCREW | |
| 24 | 80334164 | 10 | COMPRESSION SPRING | |
| 25 | 80334165 | 10 | CONE | |
| 26 | 80334359 | 3 | LOCKING SCREW | |
| 27 | 80334175 | 1 | RELIEF | |
| 28 | 80334177 | 1 | COMPRESSION SPRING | |
| 29 | 80334188 | 1 | SPRING RETAINER | |
| 30 | 80334185 | 1 | SPOOL | |
| 31 | 80334186 | 5 | LOCKING SCREW, (lubricate & torque to 118 lb-ft) | |
| 32 | 80334536 | 2 | O-RING | |
| 33 | 80334187 | 5 | COMPRESSION SPRING | |
| 34 | 80334178 | 5 | SPOOL | |
| 35 | 80334607 | 1 | LOCK VALVE | |
| 36 | 80334180 | 2 | SOCKET HD CAPSCREW | |
| 37 | 84712737 | 2 | FLANGE HALF | |
| 38 | 80334182 | 1 | PLATE | |
| 39 | 80334538 | 4 | O-RING | |
| 40 | 80334183 | 4 | SOCKET HD CAPSCREW, (lubricate & torque to 52 lb-ft) | |
| 41 | 80334360 | 4 | TWO-STAGE PORT RELIEF VALVE ASSY, (see Figure 9-11 for seal kit) | |

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**Figure 9-8 Main Hydraulic Control Valve (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 42 | 80334174 | 1 | LOAD SENSE BLEED SCREW, (lubricate & torque to 15 lb-ft) | |
| 43 | 80334171 | 1 | COMPRESSION SPRING | |
| 44 | | 1 | THRUST RING | |
| 45 | 80334543 | 1 | O-RING | |
| 46 | 80334538 | 1 | O-RING | |
| 47 | 80334546 | 1 | O-RING | |
| | | | | |
| | 80334157 | 1 | SEAL KIT, (includes items 8, 32 & designated items on Figure 9-9) | |
| | 80334198 | 1 | SEAL KIT, (includes item 17, 39 & designated items on Figure 9-9) | |
| | 80334199 | 1 | SEAL KIT, (includes item 10 & designated items on Figure 9-10) | |
| | 80334435 | 1 | SEAL KIT, (includes items 44 thru 47) | |

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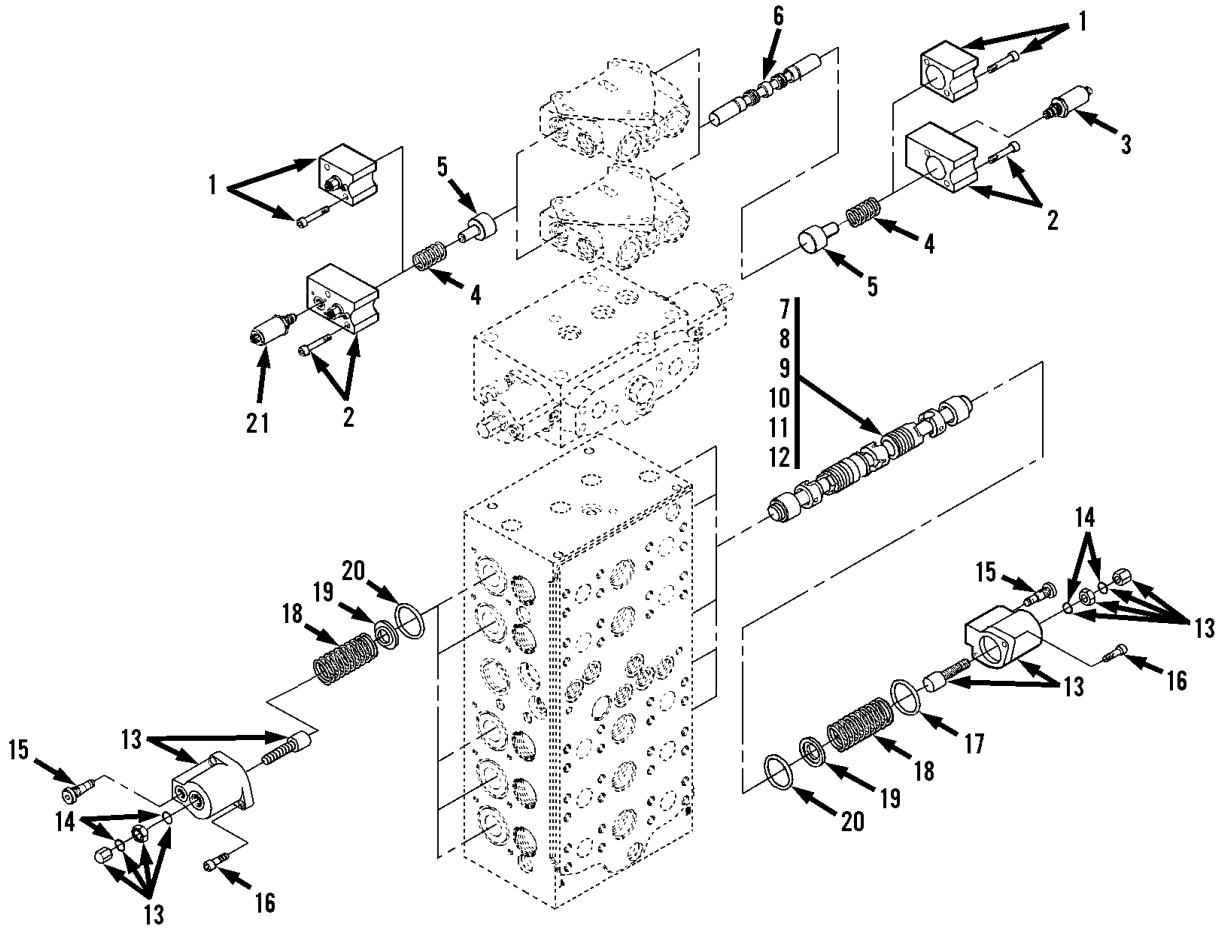
**Figure 9-8 Main Hydraulic Control Valve (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|

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**Figure 9-9 Main Hydraulic Control Valve - Spools & End Caps**



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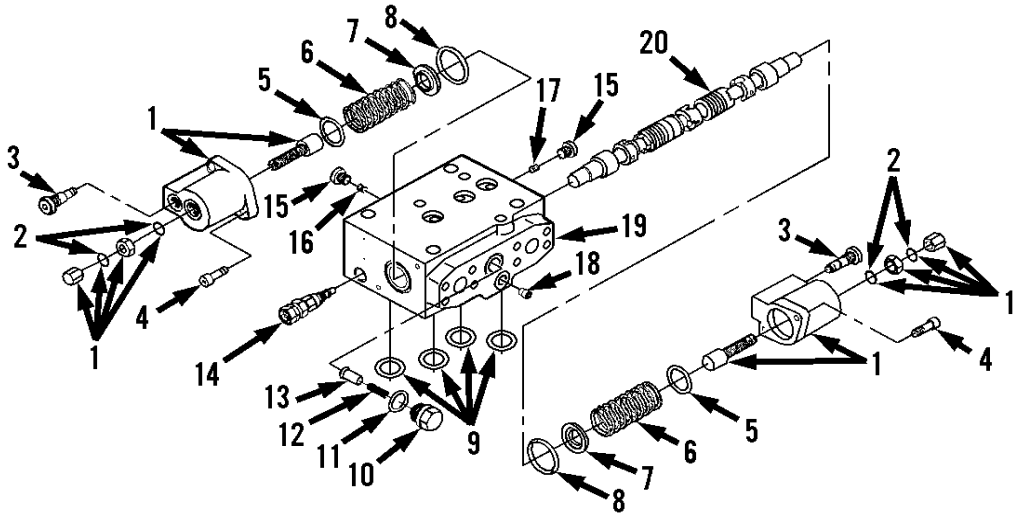
**Figure 9-9 Main Hydraulic Control Valve - Spools & End Caps**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80334191 | 2 | COVER | |
| 2 | 80334361 | 2 | COVER | |
| 3 | 80334362 | 1 | SOLENOID CARTRIDGE, (see Figure 9-11 for seal kit) | |
| 4 | 80334192 | 4 | COMPRESSION SPRING | |
| 5 | 80334193 | 4 | SPRING RETAINER | |
| 6 | | 1 | HEAT & A/C SPOOL | |
| 7 | | 1 | SWING SPOOL | |
| 8 | | 1 | TILT SPOOL | |
| 9 | | 1 | PROPEL SPOOL | |
| 10 | | 1 | TOOL SPOOL | |
| 11 | | 1 | HOIST SPOOL | |
| 12 | | 1 | BOOM SPOOL | |
| 13 | 80334195 | 10 | COVER | |
| 14 | 80334373 | 24 | O-RING | |
| 15 | 80334365 | 12 | THROTTLE VALVE, (lubricate & torque to 15 lb-ft) | |
| 16 | 80334196 | 20 | SOCKET HD CAPSCREW, (lubricate & torque to 8 lb-ft) | |
| 17 | 80334201 | 2 | SPACER | |
| 18 | 80334197 | 10 | COMPRESSION SPRING | |
| 19 | 80334366 | 10 | SPRING RETAINER | |
| 20 | 80334545 | 10 | O-RING | |
| 21 | 80334374 | 1 | SOLENOID CARTRIDGE, (see Figure 9-11 for seal kit) | |
| | 80334198 | 1 | SEAL KIT, (includes item 20 & designated items on Figure 9-8) | |

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**Figure 9-10 Main Hydraulic Control Valve - Swing Section**



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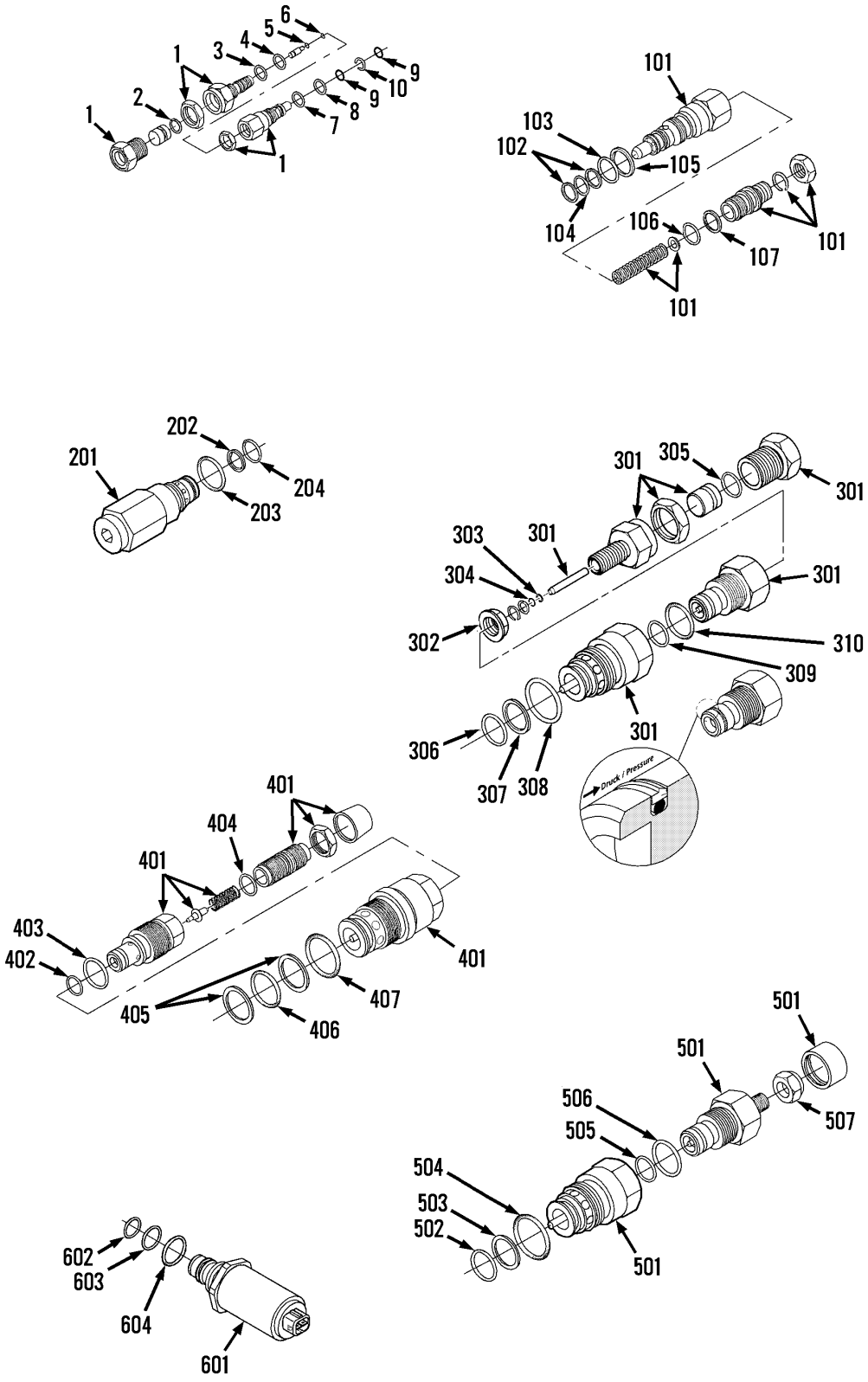
**Figure 9-10 Main Hydraulic Control Valve - Swing Section**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80334375 | 1 | SWING SECTION ASSY, (includes all items except item 3) | |
| 1 | 80334195 | 2 | COVER | |
| 2 | 80334373 | 4 | O-RING | |
| 3 | 80334365 | 12 | THROTTLE VALVE, (lubricate & torque to 15 lb-ft), (two needed, this section) | |
| 4 | 80334196 | 4 | SOCKET HD CAPSCREW, (lubricate & torque to 8 lb-ft.) | |
| 5 | 80334201 | 2 | SPACER | |
| 6 | 80334197 | 2 | COMPRESSION SPRING | |
| 7 | 80334200 | 2 | SPRING RETAINER | |
| 8 | 80334545 | 2 | O-RING | |
| 9 | 80334538 | 4 | O-RING | |
| 10 | 80334215 | 1 | LOCKING SCREW | |
| 11 | | 1 | O-RING | |
| 12 | 80334214 | 1 | COMPRESSION SPRING | |
| 13 | 80334213 | 1 | CONE | |
| 14 | 80334367 | 1 | SWING REGULATOR VALVE ASSY, (see Figure 9-11 for seal kit) | |
| 15 | | 2 | LOCKING SCREW | |
| 16 | 80334209 | 1 | JET | |
| 17 | 80334210 | 1 | JET | |
| 18 | 80334212 | 4 | CHECK VALVE | |
| 19 | | 1 | HOUSING | |
| 20 | | 1 | SPOOL | |
| | 80334199 | 1 | SEAL KIT, (includes items 8, 9, 11, 15 & designated items on Figure 9-8) | |

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**Figure 9-11 Main Hydraulic Control Valve - Seal Kits**



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**Figure 9-11 Main Hydraulic Control Valve - Seal Kits**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80334217 | 1 | SWING REGULATOR VALVE SEAL KIT, (includes items 2 thru 10) | |
| 1 | | Ref | SWING REGULATOR VALVE ASSY, (see Figure 9-10, item 14) | |
| 2 | 80334548 | 1 | O-RING | |
| 3 | | 1 | THRUST RING | |
| 4 | 80334549 | 1 | O-RING | |
| 5 | | 1 | THRUST RING | |
| 6 | 80334541 | 1 | O-RING | |
| 7 | | 1 | THRUST RING | |
| 8 | 80334523 | 1 | O-RING | |
| 9 | | 2 | THRUST RING | |
| 10 | 80334547 | 1 | O-RING | |
| | | | | |
| | 80334368 | 1 | LOAD SENSE RELIEF VALVE SEAL KIT, (includes items 102 thru 107) | |
| 101 | | Ref | LOAD SENSE RELIEF VALVE ASSY, (see Figure 9-8, item 21) | |
| 102 | | 2 | THRUST RING | |
| 103 | 80334523 | 1 | O-RING | |
| 104 | 80334547 | 1 | O-RING | |
| 105 | | 1 | THRUST RING | |
| 106 | 80334549 | 1 | O-RING | |
| 107 | | 1 | THRUST RING | |
| | | | | |
| | 80334369 | 1 | LOAD SENSE BLEED SCREW SEAL KIT, (includes items 202 thru 204) | |
| 201 | | Ref | LOAD SENSE BLEED SCREW, (see Figure 9-8, item 42) | |
| 202 | | 1 | THRUST RING | |
| 203 | 80334528 | 1 | O-RING | |
| 204 | | 1 | O-RING | |
| | | | | |
| | 80334370 | 1 | TWO-STAGE PORT RELIEF VALVE SEAL KIT, (includes items 302 thru 310) | |
| 301 | | Ref | TWO-STAGE PORT RELIEF VALVE ASSY, (see Figure 9-8, item 41) | |
| 302 | | 1 | SEAL LOCK NUT | |
| 303 | 80334542 | 1 | O-RING | |
| 304 | | 1 | THRUST RING | |
| 305 | 80334525 | 1 | O-RING | |
| 306 | 80334532 | 1 | O-RING | |
| 307 | | 1 | THRUST RING | |
| 308 | 80334537 | 1 | O-RING | |
| 309 | | 1 | SPOOL SEAL | |
| 310 | 80334533 | 1 | O-RING | |
| | | | | |
| | 80334219 | 1 | PORT RELIEF VALVE SEAL KIT, (includes items 402 thru 407) | |
| 401 | | Ref | PORT RELIEF VALVE ASSY, (see Figure 9-8, item 22) | |
| 402 | | 1 | SPOOL SEAL | |
| 403 | 80334533 | 1 | O-RING | |
| 404 | 80334528 | 1 | O-RING | |
| 405 | | 2 | THRUST RING | |

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**Figure 9-11 Main Hydraulic Control Valve - Seal Kits (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 406 | 80334532 | 1 | O-RING | |
| 407 | 80334537 | 1 | O-RING | |
| | 80334371 | 1 | RELIEF VALVE SEAL KIT, (includes items 502 thru 507) | |
| 501 | | Ref | RELIEF VALVE ASSY, (see Figure 9-8, item 4) | |
| 503 | 80334526 | 1 | O-RING | |
| 504 | 80334535 | 1 | O-RING | |
| 505 | | 1 | SPOOL SEAL | |
| 506 | 80334531 | 1 | O-RING | |
| 507 | | 1 | SEAL LOCK NUT | |
| | 80334372 | 1 | SOLENOID CARTRIDGE SEAL KIT, (includes items 602 thru 604) | |
| 601 | | Ref | SOLENOID CARTRIDGE ASSY, (see Figure 9-9, item 3 & 21) | |
| 602 | | 1 | O-RING | |
| 603 | 80334523 | 1 | O-RING | |
| 604 | 80334527 | 1 | O-RING | |

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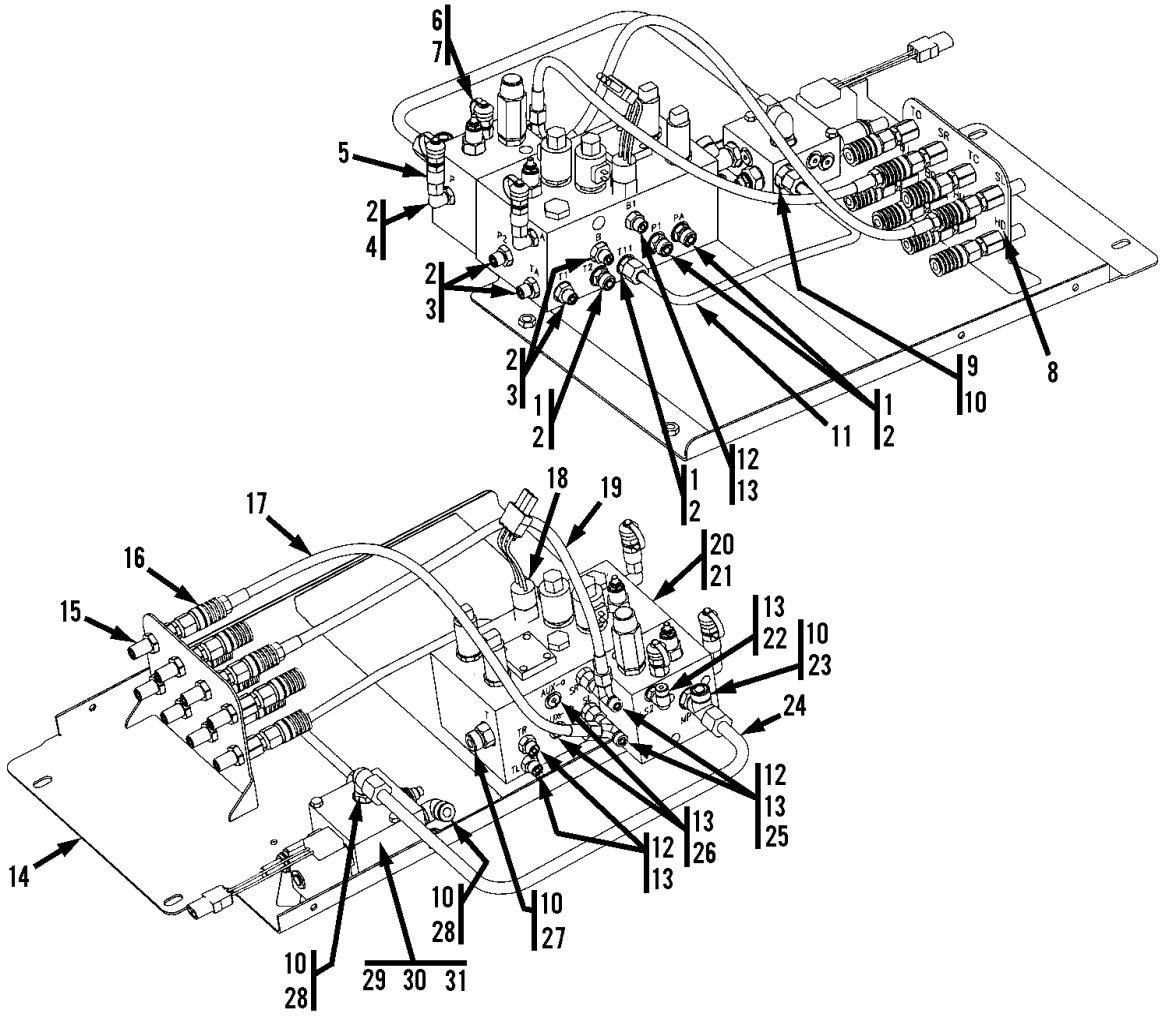
**Figure 9-11 Main Hydraulic Control Valve - Seal Kits (Continued)**

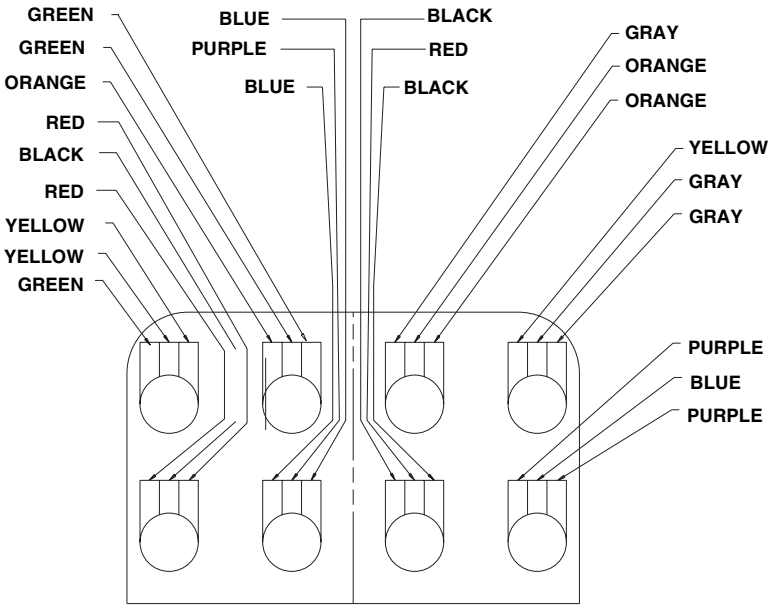
| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 9-12 Pilot Manifold Valve Tray Hydraulic Components**



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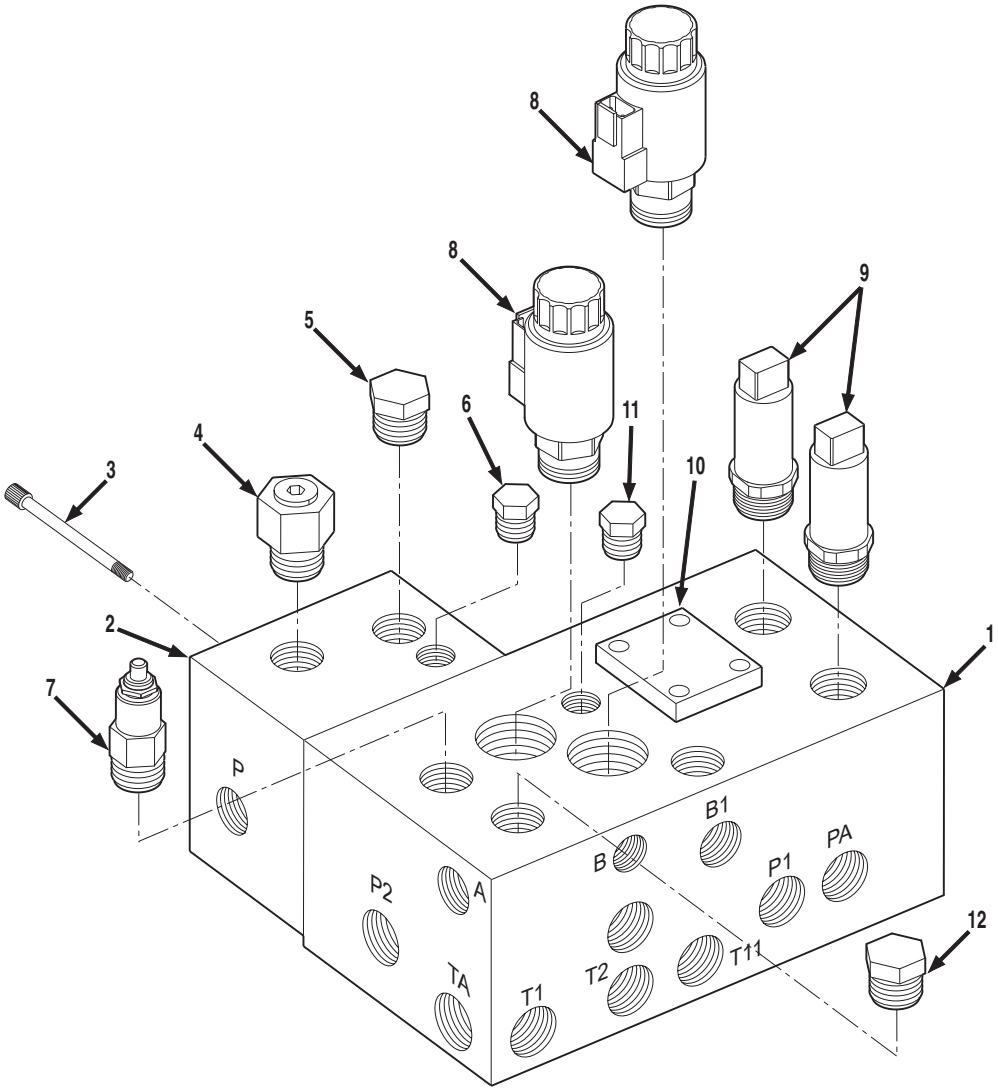
**Figure 9-12 Pilot Manifold Valve Tray Hydraulic Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 88662301 | 4 | CONNECTOR, (includes item 2) | |
| 2 | 88591204 | 10 | O-RING | |
| 3 | 88662471 | 4 | CONNECTOR, (includes item 2) | |
| 4 | 88662064 | 2 | ELBOW, 90 DEGREES, (includes item 2) | |
| 5 | 91143172 | 2 | MINI-CHECK COUPLING | |
| 6 | 91053020 | 1 | MINI-CHECK COUPLING, (includes item 7) | |
| 7 | 91054002 | 1 | VITON O-RING, (lubricate lightly) | |
| 8 | 80363088 | 1 | QUICK-DISCONNECT DECAL | |
| 9 | 88662310 | 1 | CONNECTOR, (includes item 10) | |
| 10 | 88591205 | 5 | O-RING | |
| 11 | 80433089 | 1 | TUBE ASSY | |
| 12 | 88662300 | 5 | CONNECTOR, (includes item 13) | |
| 13 | 88591202 | 8 | O-RING | |
| 14 | 80336010 | 1 | VALVE TRAY WELDMENT | |
| 15 | 80333051 | 8 | BULKHEAD NIPPLE | |
| 16 | 80333050 | 8 | BULKHEAD COUPLER | |
| 17 | 84719560 | 1 | HOSE ASSY | |
| 18 | 80333100 | 1 | SWITCH | |
| 19 | 84719450 | 1 | HOSE ASSY | |
| 20 | | Ref | PILOT MANIFOLD ASSY, (see Figure 9-13 for details) | |
| 21 | 80263012 | 4 | WHIZ-LOK SCREW, 1/4-20X1/2 | |
| 22 | 88662328 | 1 | ELBOW, 90 DEGREES, (includes item 13) | |
| 23 | 88662347 | 1 | RUN TEE, (includes item 10) | |
| 24 | 80433114 | 1 | TUBE ASSY | |
| 25 | 80233259 | 2 | SWIVEL NUT RUN TEE | |
| 26 | 88662190 | 2 | HEX HD PLUG, (includes item 13) | |
| 27 | 88662302 | 1 | CONNECTOR, (includes item 10) | |
| 28 | 88662330 | 2 | ELBOW, 90 DEGREES, (includes item 10) | |
| 29 | | Ref | COOLING FAN VALVE ASSY, (see Figure 9-34 for details) | |
| 30 | 88201011 | 2 | HEX HD CAPSCREW, 1/4-20X2-1/2, GR5 | |
| 31 | 77143013 | 2 | WHIZ-LOK NUT, 1/4-20 | |

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**Figure 9-13 Pilot Manifold**



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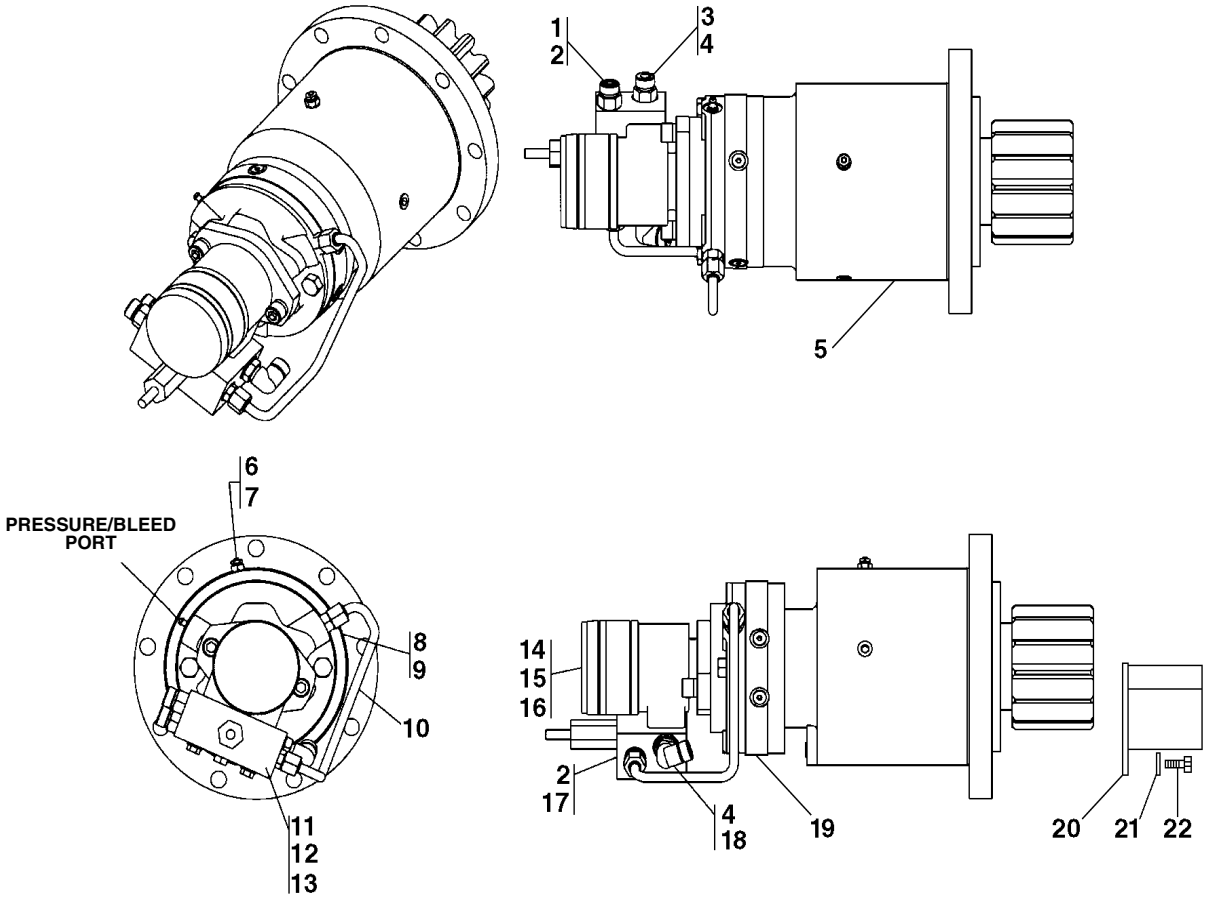
**Figure 9-13 Pilot Manifold**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80433199 | 1 | PILOT MANIFOLD, (includes all items) | |
| 1 | 80434135 | 1 | MANIFOLD BLOCK, LARGE | |
| 2 | 80434136 | 1 | MANIFOLD BLOCK, SMALL | |
| 3 | 80434137 | 4 | SOCKET HD CAPSCREW, 1/4-20X3 | |
| 4 | 80434138 | 1 | MOBILE VALVE | |
| | 80434139 | 1 | MOBILE VALVE SEAL KIT | |
| 5 | 80434140 | 1 | CAVITY PLUG | |
| 6 | 80434141 | 1 | HEX PLUG | |
| 7 | 80434142 | 1 | RELIEF VALVE | |
| | 80434143 | 1 | RELIEF VALVE SEAL KIT | |
| 8 | 80434145 | 2 | THREE-WAY VALVE | |
| | 80434144 | 2 | THREE-WAY VALVE SEAL KIT | |
| 9 | 80334362 | 2 | PROPORTIONAL REDUCING VALVE | |
| | 80434146 | 2 | PROPORTIONAL REDUCING VALVE SEAL KIT | |
| 10 | 80434147 | 1 | COVER PLATE | |
| | 80434148 | 1 | COVER PLATE SEAL KIT | |
| 11 | 80434149 | 1 | SHUTTLE VALVE | |
| | 80434150 | 1 | SHUTTLE VALVE SEAL KIT | |
| 12 | 80334097 | 1 | CHECK VALVE | |

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**Figure 9-14 Tilt Transmission Assembly**



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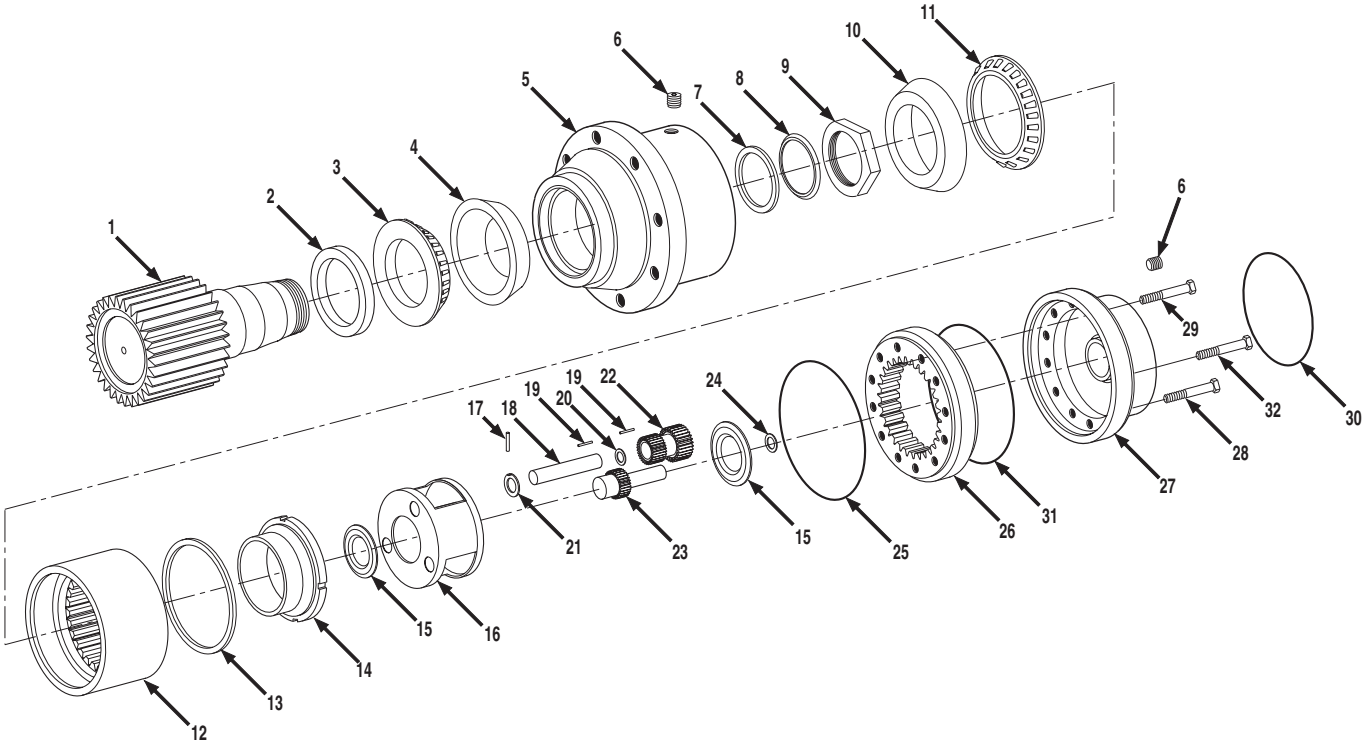
**Figure 9-14 Tilt Transmission Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80425007 | 1 | TILT TRANSMISSION ASSY, (includes items 1 thru 18) | |
| 1 | 88662440 | 1 | CONNECTOR, (includes item 2) | |
| 2 | 88591204 | 2 | O-RING | |
| 3 | 88662302 | 1 | CONNECTOR, (includes item 4) | |
| 4 | 88591205 | 2 | O-RING | |
| 5 | | Ref | TILT TRANSMISSION, (see Figure 9-15 for details) | |
| 6 | 2220273 | 1 | ADAPTER, (includes item 7) | |
| 7 | 80423055 | 1 | RELIEF FITTING | |
| 8 | 88662444 | 1 | CONNECTOR, (includes item 9) | |
| 9 | 88591202 | 1 | O-RING | |
| 10 | 80423039 | 1 | TUBE ASSY | |
| 11 | 80423049 | 1 | TILT SEQUENCE VALVE | |
| 12 | 83201177 | 4 | HEX HD CAPSCREW, 5/16-18X2-1/2, GR8 | |
| 13 | 90027469 | 4 | HARDENED WASHER, 5/16 | |
| 14 | | Ref | TILT MOTOR, (see Figure 9-16 for details) | |
| 15 | 88211106 | 2 | SOCKET HD CAPSCREW, 1/2-13X1-1/2, GR8, (lubricate & torque to 68-78 lb-ft) | |
| 16 | 88551109 | 2 | LOCKWASHER, 1/2 | |
| 17 | 88551011 | 1 | CONNECTOR, (includes item 2) | |
| 18 | 88662330 | 1 | ELBOW, 90 DEGREES, (includes item 4) | |
| 19 | | Ref | TILT BRAKE, (see Figure 9-17 for details) | |
| 20 | 80423013 | 1 | TILT PINION GUARD | |
| 21 | 88561109 | 3 | FLAT WASHER, 3/8 | |
| 22 | 88201037 | 3 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |

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**Figure 9-15 Tilt Transmission**



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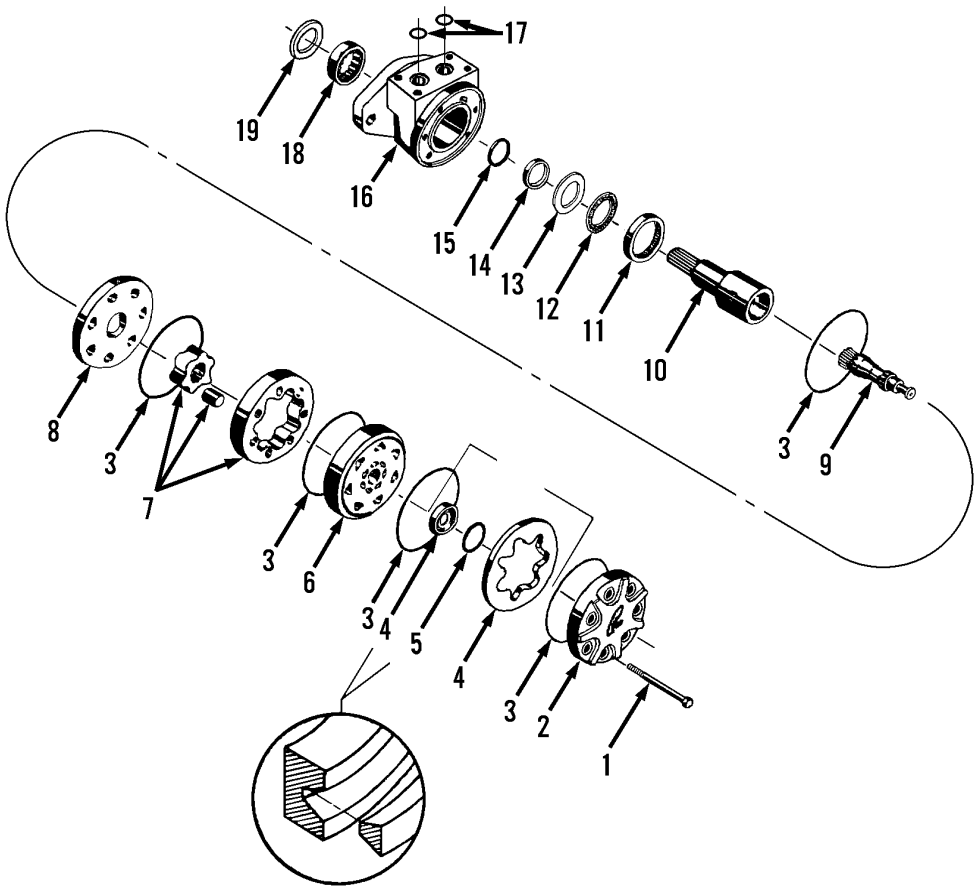
**Figure 9-15 Tilt Transmission**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80423003 | 1 | TILT TRANSMISSION, (includes all items) | |
| 1 | 80324013 | 1 | OUTPUT SHAFT | |
| 2 | 80324014 | 1 | LIP SEAL | |
| 3 | 80324015 | 1 | BEARING CONE | |
| 4 | 80324016 | 1 | BEARING CUP | |
| 5 | 80424001 | 1 | HOUSING | |
| 6 | 80944005 | 3 | PIPE PLUG | |
| 7 | 80324018 | 1 | TANGED WASHER | |
| 8 | 80324019 | 1 | TANGED LOCKWASHER | |
| 9 | 80324020 | 1 | BEARING NUT | |
| 10 | 90202500 | 1 | BEARING CUP | |
| 11 | 90202501 | 1 | BEARING CONE | |
| 12 | 80324021 | 1 | INTERNAL GEAR | |
| 13 | 80324022 | 1 | RETAINING RING | |
| 14 | 80324023 | 1 | INTERNAL COUPLING | |
| 15 | 80324024 | 2 | THRUSTWASHER | |
| 16 | 80424002 | 1 | CARRIER | |
| 17 | 80324026 | 3 | ROLL PIN | |
| 18 | 80324027 | 3 | PLANETARY SHAFT | |
| 19 | 80324028 | 96 | NEEDLE BEARING | |
| 20 | 80324029 | 1 | THRUST SPACER | |
| 21 | 80324030 | 6 | TANGED THRUSTWASHER | |
| 22 | 80324031 | 3 | CLUSTER GEAR | |
| 23 | 80324032 | 1 | SUN GEAR | |
| 24 | 80324033 | 1 | THRUSTWASHER | |
| 25 | 80324034 | 1 | O-RING | |
| 26 | 80324035 | 1 | RING GEAR | |
| 27 | 80424006 | 1 | INPUT COVER | |
| 28 | 80324037 | 8 | HEX HD CAPSCREW | |
| 29 | 80324038 | 4 | HEX SHOULDER BOLT | |
| 30 | 80424004 | 1 | O-RING, (between tilt transmission & tilt motor) | |
| 31 | 80424032 | 1 | O-RING | |
| 32 | 80424008 | 2 | HEX HD CAPSCREW, 1/2-13X3-1/4, GR 8 | |

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**Figure 9-16 Tilt Motor**



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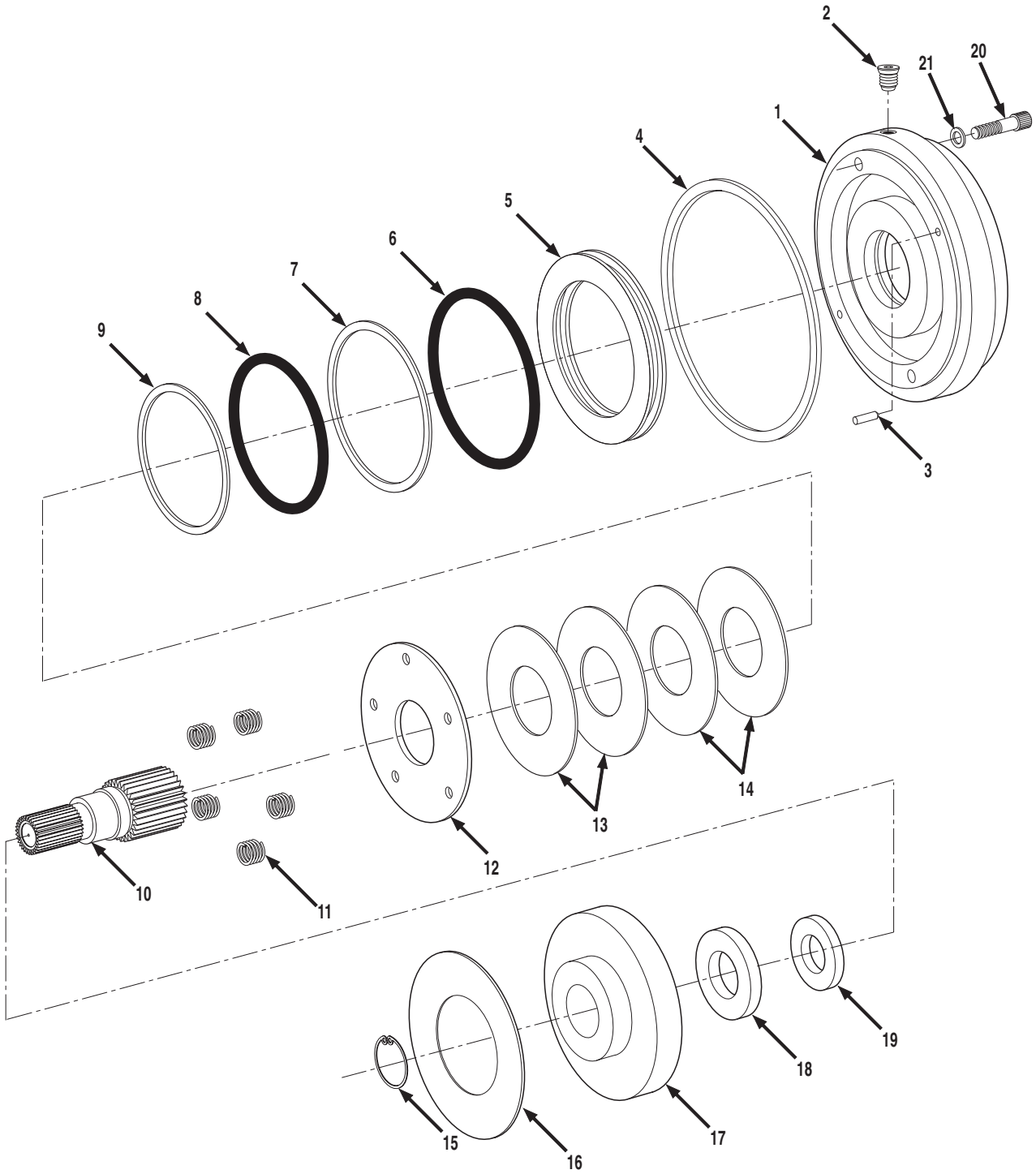
**Figure 9-16 Tilt Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80323026 | 1 | TILT MOTOR, (includes all items) | |
| 1 | 80324039 | 5 | BOLT | |
| 2 | 80324040 | 1 | END COVER | |
| 3 | 80324041 | 5 | SEAL RING | |
| 4 | 80324042 | 1 | COMMUTER & RING ASSY | |
| 5 | 80324043 | 1 | COMMUTER SEAL | |
| 6 | 80324044 | 1 | MANIFOLD | |
| 7 | 80324045 | 1 | ROTOR ASSY | |
| 8 | 80324046 | 1 | WEAR PLATE | |
| 9 | 80324047 | 1 | DRIVE LINK | |
| 10 | 80324048 | 1 | COUPLING SHAFT | |
| 11 | 80324049 | 1 | BRONZE BUSHING | |
| 12 | 80324050 | 1 | THRUST BEARING | |
| 13 | 80324051 | 1 | THRUST WASHER | |
| 14 | 80324052 | 1 | SHAFT SEAL | |
| 15 | 80324053 | 1 | BACK-UP RING | |
| 16 | 80324054 | 1 | HOUSING ASSY, (includes items 11, 17 & 18) | |
| 17 | 80324055 | 2 | O-RING | |
| 18 | 80324056 | 1 | BEARING | |
| 19 | 80324057 | 1 | SEAL | |
| | 80324058 | AR | SEAL KIT (includes items 3, 5, 14, 15 & 19) | |

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**Figure 9-17 Tilt Brake**



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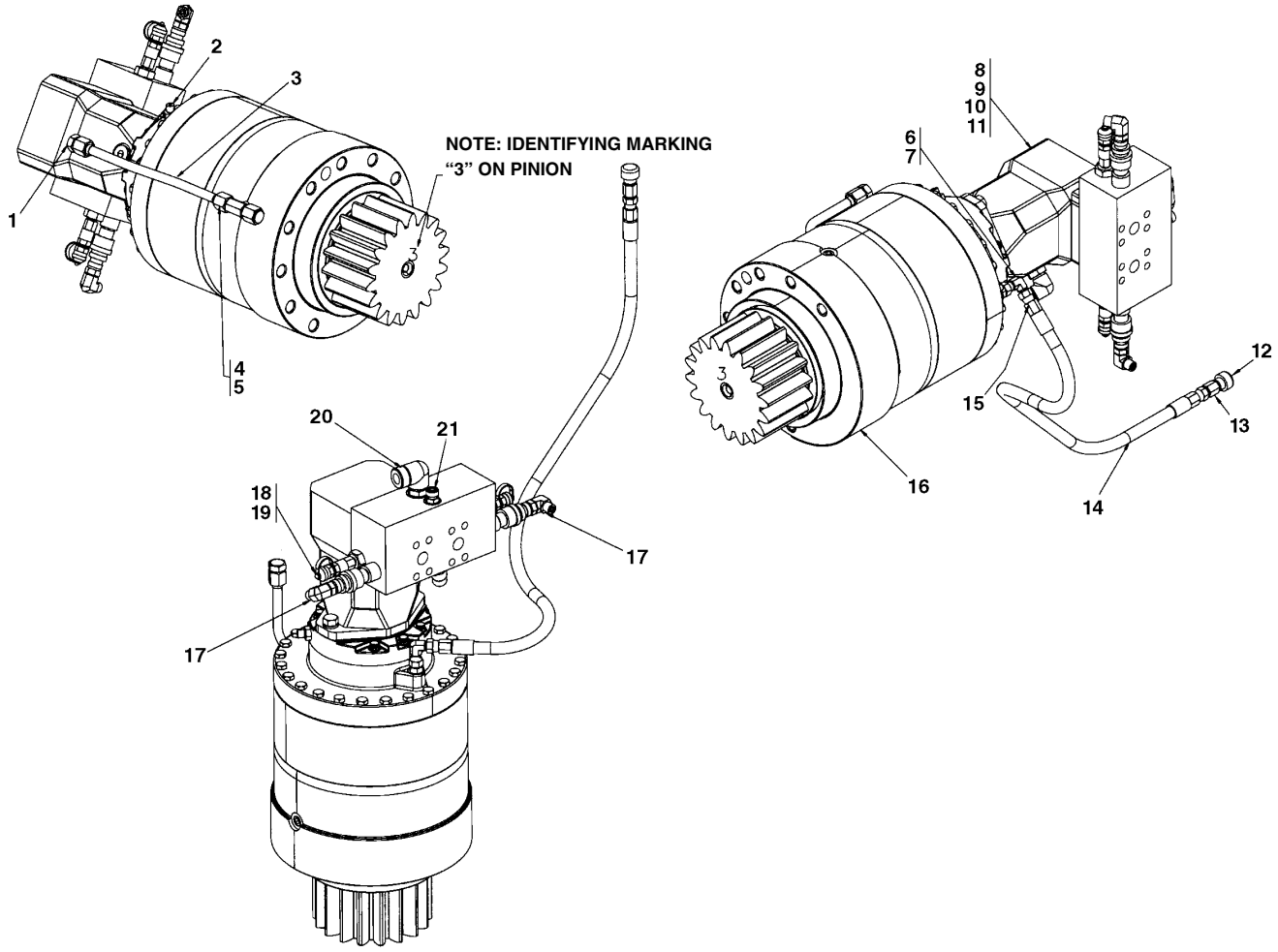
**Figure 9-17 Tilt Brake**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80424003 | 1 | TILT BRAKE, (includes all items) | |
| 1 | 80424012 | 1 | CYLINDER | |
| 2 | 80424007 | 1 | BRAKE SCREW BLEEDER | |
| 3 | 80424013 | 2 | DOWEL | |
| 4 | | 1 | CORK GASKET | |
| 5 | 80424015 | 1 | PISTON | |
| 6 | | 1 | O-RING | |
| 7 | | 1 | BACKUP RING | |
| 8 | | 1 | O-RING | |
| 9 | | 1 | BACKUP RING | |
| 10 | 80424020 | 1 | SHAFT | |
| 11 | 80424021 | 1 | SPRING KIT | |
| 12 | 80424022 | 1 | PRESSURE PLATE | |
| 13 | | 2 | INNER PLATE | |
| 14 | | 2 | OUTER PLATE | |
| 15 | | 1 | RETAINING RING | |
| 16 | | 2 | PAPER GASKET | |
| 17 | 80424027 | 1 | HOUSING | |
| 18 | | 1 | BEARING | |
| 19 | | 1 | ROTARY SEAL | |
| 20 | 80424030 | 6 | SOCKET HD CAPSCREW | |
| 21 | 80424031 | 6 | SAFETY WASHER | |
| | 80424009 | AR | FRICTION DISC KIT, (includes items 4, 12, 13 & 14) | |
| | 80424010 | AR | SEAL KIT, (includes items 4, 6, 7, 8, 9 & 16) | |
| | 80424011 | AR | BEARING KIT, (includes items 4, 15, 18 & 19) | |

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**Figure 9-18 Swing Transmission Installation**



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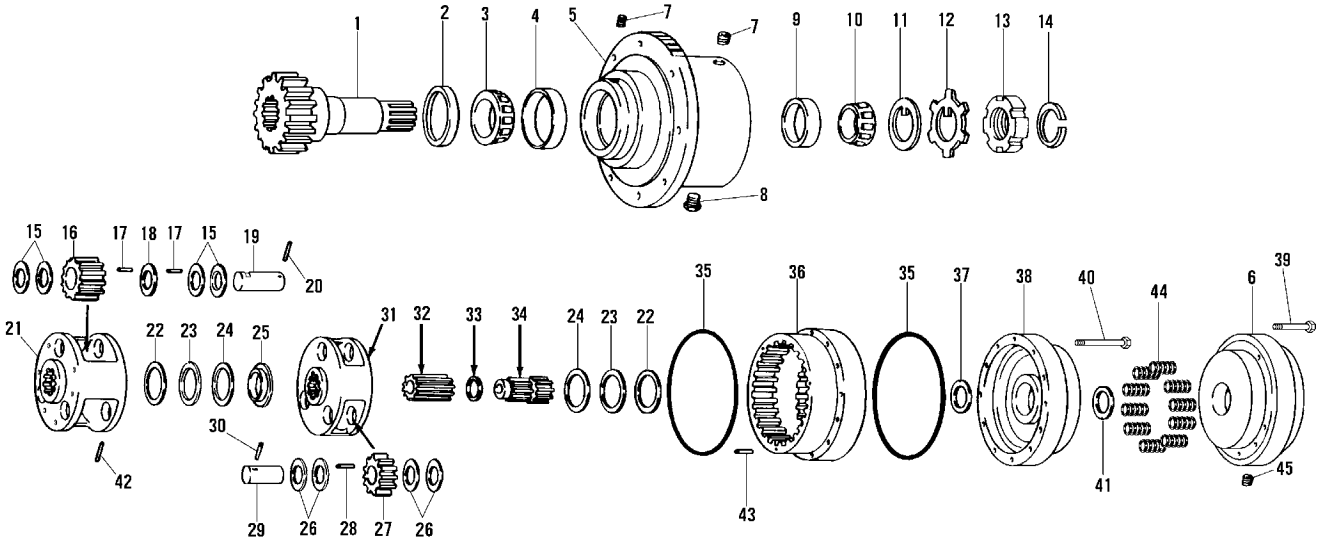
**Figure 9-18 Swing Transmission Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80345004 | 1 | SWING TRANSMISSION INSTALLATION, (includes all items) | |
| 1 | 88661385 | 1 | HEX PLUG | |
| 2 | 88662300 | 1 | CONNECTOR, (includes o-ring) | |
| | 88591202 | 1 | O-RING | |
| 3 | 80343003 | 1 | TUBE | |
| 4 | 88661245 | 1 | MALE OUTLET TEE, 3/8X1/2 TUBE | |
| 5 | 88661365 | 1 | HEX CAP | |
| 6 | 88662005 | 1 | CONNECTOR, (includes o-ring) | |
| | 88591204 | 2 | O-RING | |
| 7 | 88662105 | 1 | ELBOW, 90 DEGREES, (swivel nut) | |
| 8 | | Ref | SWING MOTOR, (see Figure 9-20 for details) | |
| 9 | 80243021 | 1 | O-RING | |
| 10 | 88201072 | 2 | HEX HD CAPSCREW, 1/2-13X2-3/4, GR5, (lubricate & torque to 68-78 lb-ft) | |
| 11 | 88551013 | 2 | LOCKWASHER, 1/2 | |
| 12 | 77343070 | 1 | VENT | |
| 13 | 80243019 | 1 | ADAPTER, 3/8 | |
| 14 | 84716547 | 1 | HOSE ASSY | |
| 15 | 88662435 | 1 | ELBOW, 90 DEGREES, (includes o-ring) | |
| | 88591206 | 2 | O-RING | |
| 16 | | Ref | SWING TRANSMISSION, (see Figure 9-19 for details) | |
| 17 | 80233255 | 1 | ELBOW, 90 DEGREES, (includes o-ring) | |
| 18 | 91083306 | 2 | STRAIGHT THREAD ADAPTER, (includes o-ring) | |
| 19 | 91143172 | 2 | MINI-CHECK COUPLING | |
| 20 | 88662355 | 1 | ELBOW, 90 DEGREES, (includes o-ring) | |
| | 88591206 | 2 | O-RING | |
| 21 | 88662301 | 1 | CONNECTOR, (includes o-ring) | |
| | 88591204 | 2 | O-RING | |

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**Figure 9-19 Swing Transmission**



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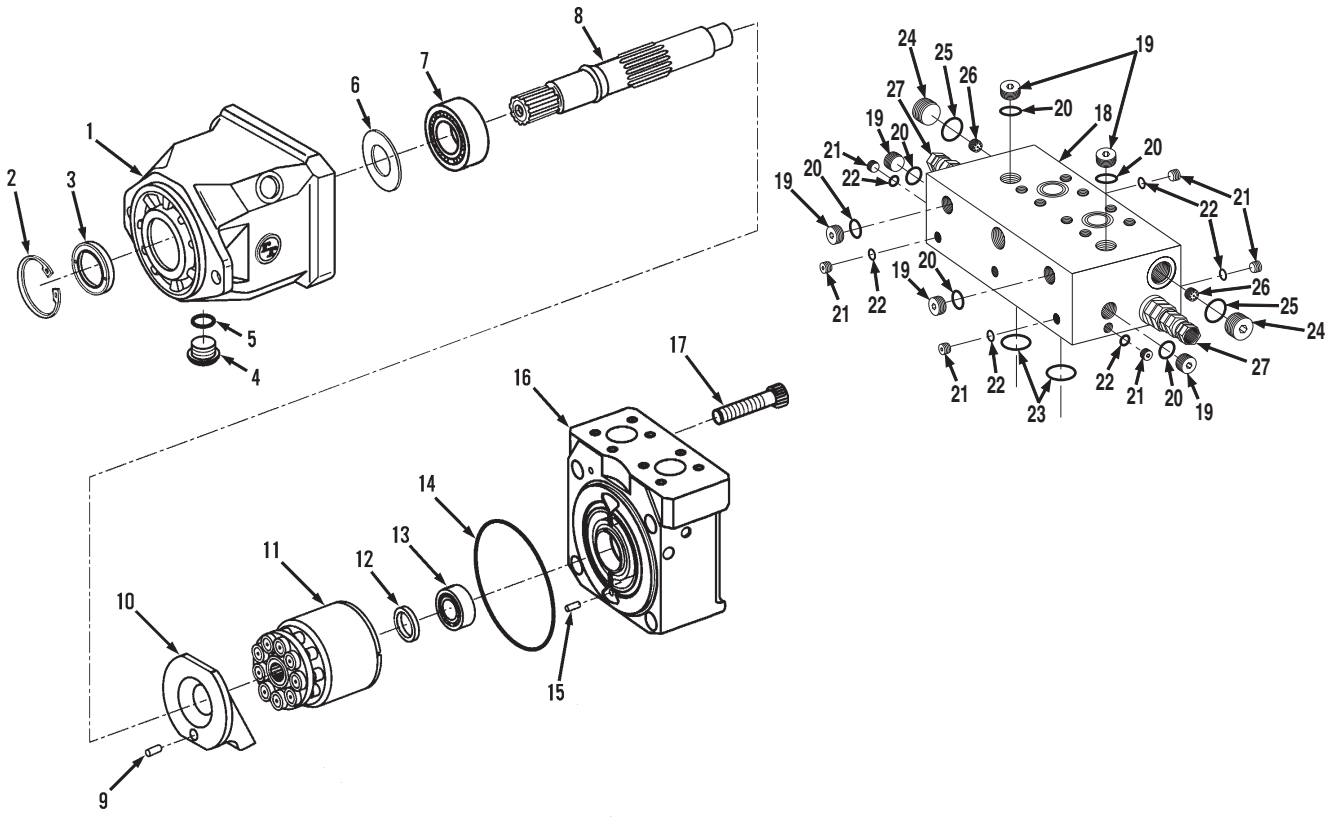
**Figure 9-19 Swing Transmission**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80343006 | 1 | SWING TRANSMISSION, (includes all items) | |
| 1 | 80244012 | 1 | OUTPUT SHAFT | |
| 2 | 77344004 | 1 | OIL SEAL | |
| 3 | 77344006 | 1 | BEARING CONE | |
| 4 | 77344007 | 1 | BEARING CUP | |
| 5 | 83644010 | 1 | HOUSING | |
| 6 | | Ref | SWING BRAKE, (see Figure 9-21 for details) | |
| 7 | 77124007 | 2 | PIPE PLUG | |
| 8 | 77144008 | 1 | MAGNETIC PLUG | |
| 9 | 77144005 | 1 | BEARING CUP | |
| 10 | 77144004 | 1 | BEARING CONE | |
| 11 | 77344009 | 1 | TANGED WASHER | |
| 12 | 77344010 | 1 | LOCKWASHER | |
| 13 | 77344011 | 1 | LOCKNUT | |
| 14 | 77344012 | 1 | RETAINING RING | |
| 15 | 77144012 | 1 | RETAINING RING | |
| 16 | 77144025 | 3 | PLANET GEAR | |
| 17 | 77144014 | 108 | NEEDLE BEARING | |
| 18 | 77144015 | 3 | THRUSTWASHER | |
| 19 | 83644011 | 3 | PLANET SHAFT | |
| 20 | 80934033 | 3 | SPRING PIN | |
| 21 | 80344001 | 1 | SECOND STAGE CARRIER | |
| 22 | 90202542 | 2 | THRUSTWASHER, (thick) | |
| 23 | 90202543 | 2 | THRUST BEARING | |
| 24 | 77144019 | 2 | THRUSTWASHER, (thin) | |
| 25 | 77144020 | 1 | THRUST BEARING CARRIER | |
| 26 | 77144022 | 12 | THRUSTWASHER | |
| 27 | 77144023 | 3 | PLANET GEAR | |
| 28 | 77144024 | 57 | NEEDLE BEARING | |
| 29 | 77344014 | 3 | PLANET SHAFT | |
| 30 | 77144036 | 3 | ROLL PIN | |
| 31 | 83644102 | 1 | FIRST STAGE CARRIER | |
| 32 | 77344015 | 1 | SECOND STAGE CARRIER | |
| 33 | 77144028 | 1 | THRUSTWASHER | |
| 34 | 80344002 | 1 | INPUT GEAR | |
| 35 | 90202519 | 2 | O-RING | |
| 36 | 77344107 | 1 | RING GEAR | |
| 37 | 80344008 | 1 | THRUSTWASHER | |
| 38 | 80344003 | 1 | INPUT COVER | |
| 39 | 80344007 | 6 | SOCKET HD CAPSCREW | |
| 40 | 77344019 | 24 | BOLT | |
| 41 | 80344006 | 1 | RETAINING RING | |
| 42 | 90202517 | 3 | ROLL PIN | |
| 43 | 7017047 | 3 | DOWEL PIN | |
| 44 | 80344004 | 10 | SPRING | |
| 45 | 7017082 | 1 | PIPE PLUG | |

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**Figure 9-20 Swing Motor**



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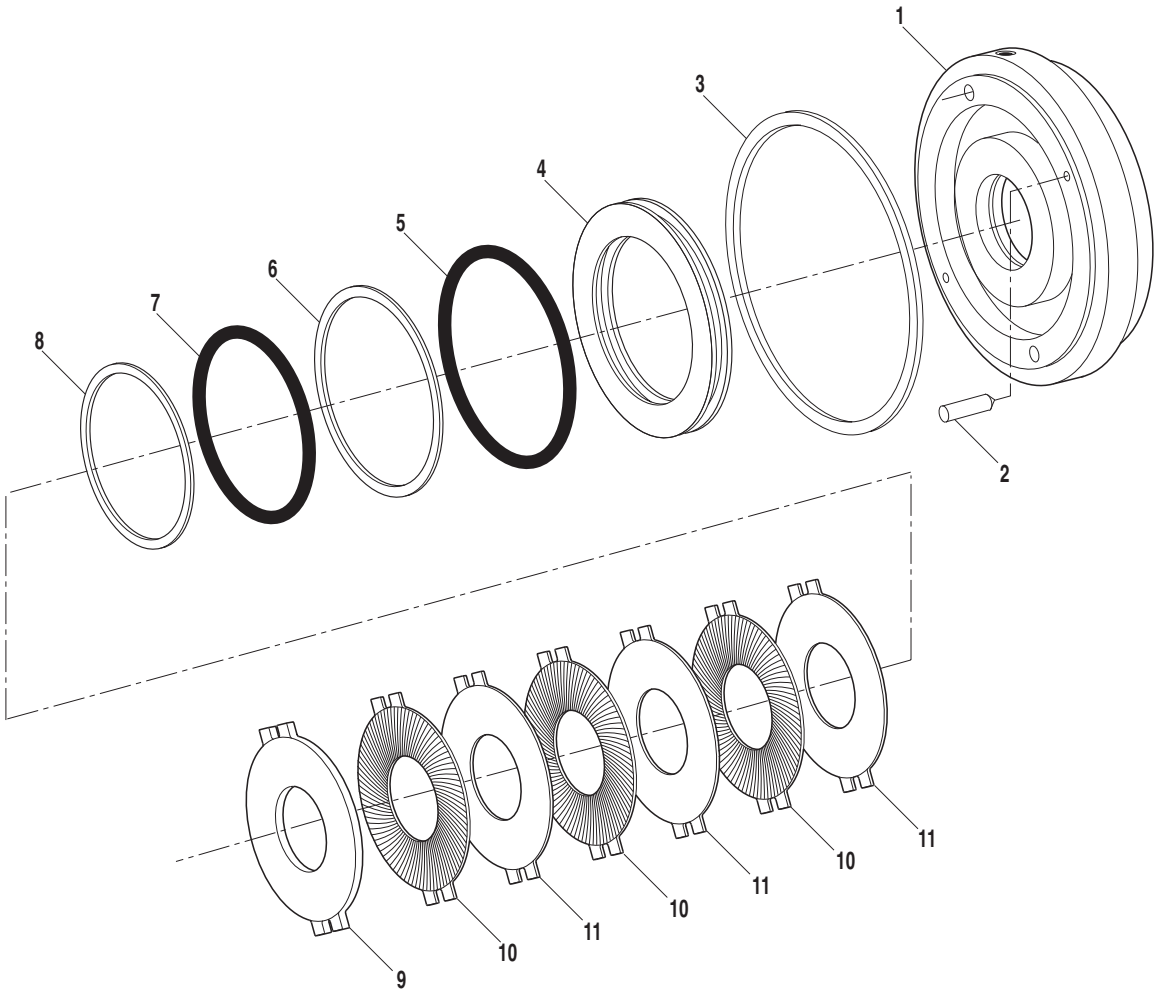
**Figure 9-20 Swing Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80333013 | 1 | SWING MOTOR w/MANIFOLD, (includes all items) | |
| 1 | 80334006 | 1 | HOUSING | |
| 2 | 80334007 | 1 | RETAINING RING | |
| 3 | | 1 | SHAFT SEAL | |
| 4 | 80334008 | 1 | PLUG, (includes item 5) | |
| 5 | | 1 | O-RING | |
| 6 | 80334009 | 1 | STOP RING | |
| 7 | 80334010 | 1 | ROLLER BEARING | |
| 8 | 80334011 | 1 | DRIVE SHAFT | |
| 9 | 80334012 | 2 | DOWEL PIN | |
| 10 | 80334013 | 1 | SWASH PLATE | |
| 11 | 80334014 | 1 | ROTARY GROUP | |
| 12 | 80334015 | AR | PRELOAD SHIM, (3.00 mm) | |
| | 80334016 | AR | PRELOAD SHIM, (2.10 mm) | |
| | 80334017 | AR | PRELOAD SHIM, (2.15 mm) | |
| | 80334018 | AR | PRELOAD SHIM, (2.20 mm) | |
| | 80334019 | AR | PRELOAD SHIM, (2.25 mm) | |
| | 80334020 | AR | PRELOAD SHIM, (2.30 mm) | |
| | 80334021 | AR | PRELOAD SHIM, (2.35 mm) | |
| | 80334022 | AR | PRELOAD SHIM, (2.40 mm) | |
| | 80334023 | AR | PRELOAD SHIM, (2.45 mm) | |
| | 80334024 | AR | PRELOAD SHIM, (2.50 mm) | |
| | 80334025 | AR | PRELOAD SHIM, (2.55 mm) | |
| | 80334026 | AR | PRELOAD SHIM, (2.60 mm) | |
| | 80334027 | AR | PRELOAD SHIM, (2.65 mm) | |
| | 80334028 | AR | PRELOAD SHIM, (2.70 mm) | |
| | 80334029 | AR | PRELOAD SHIM, (2.75 mm) | |
| | 80334030 | AR | PRELOAD SHIM, (2.80 mm) | |
| | 80334031 | AR | PRELOAD SHIM, (2.85 mm) | |
| | 80334032 | AR | PRELOAD SHIM, (2.90 mm) | |
| | 80334033 | AR | PRELOAD SHIM, (2.95 mm) | |
| 13 | 80334034 | 1 | ROLLER BEARING | |
| 14 | | 1 | O-RING | |
| 15 | 80334035 | 1 | DOWEL PIN | |
| 16 | 80334036 | 1 | PORT BLOCK | |
| 17 | 80334037 | 4 | SOCKET HD CAPSCREW | |
| 18 | | 1 | MANIFOLD BLOCK | |
| 19 | 80334101 | 6 | SOCKET HD PLUG, (includes item 20) | |
| 20 | 80334102 | 6 | O-RING | |
| 21 | 80334103 | 6 | SOCKET HD PLUG, (includes item 22) | |
| 22 | 80334104 | 6 | O-RING | |
| 23 | 80334608 | 2 | O-RING | |
| 24 | 80634002 | 2 | SOCKET HD PLUG, (includes item 25) | |
| 25 | 80334609 | 2 | O-RING | |
| 26 | 80334610 | 2 | CHECK VALVE | |
| 27 | 80334598 | 2 | RELIEF CARTRIDGE, (2-stage), (pressure setting 3450 psi, hi, 2000 psi, lo) | |
| | 80334005 | 1 | SEAL KIT, (includes items 3, 5 & 14) | |

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**Figure 9-21 Swing Brake**



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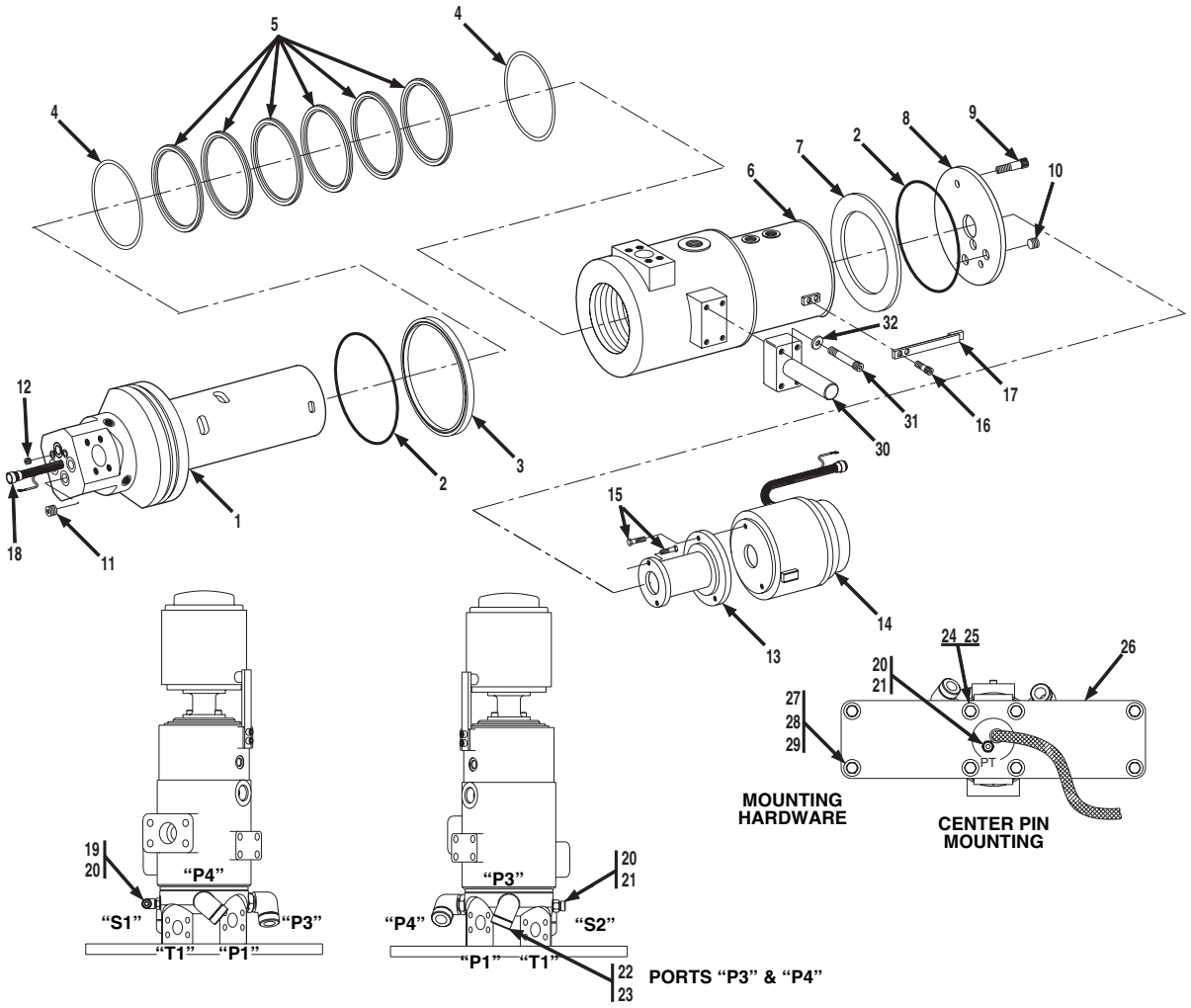
**Figure 9-21 Swing Brake**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80344005 | 1 | SWING BRAKE, (includes all items) | |
| 1 | | 1 | CYLINDER | |
| 2 | | 2 | DOWEL PIN | |
| 3 | | 1 | CORK GASKET | |
| 4 | | 1 | PISTON | |
| 5 | 80344012 | 1 | O-RING | |
| 6 | 80344013 | 1 | BACKUP RING | |
| 7 | 80344014 | 1 | O-RING | |
| 8 | 80344015 | 1 | BACKUP RING | |
| 9 | | 1 | PRESSURE PLATE | |
| 10 | | 3 | FRICTION PLATE | |
| 11 | | 3 | OUTER PLATE | |
| | 80424033 | AR | FRICTION DISC KIT, (includes items 3 & 9 thru 11) | |

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**Figure 9-22 Center Pin Assembly**



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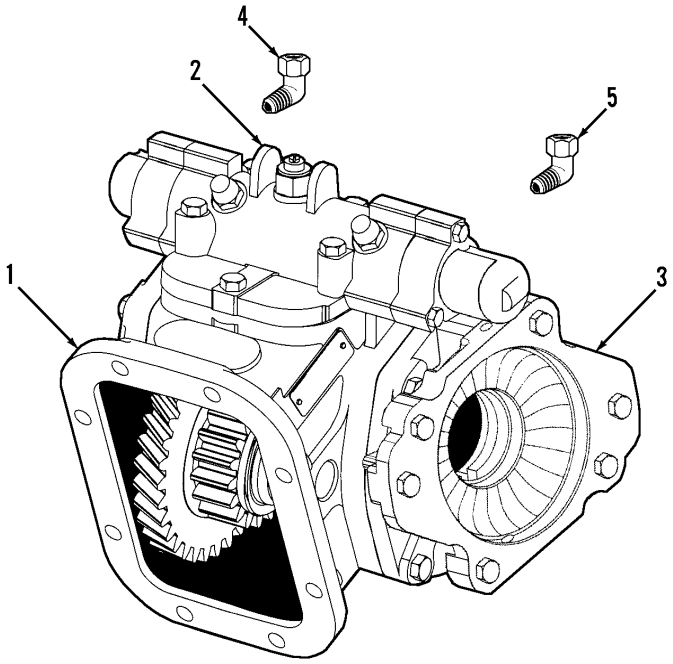
**Figure 9-22 Center Pin Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385049 | 1 | CENTER PIN ASSY, (includes items 1 thru 26) | |
| | 80333019 | 1 | CENTERPIN, (includes items 1 thru 18) | |
| 1 | 80334239 | 1 | CENTERPIN BODY | |
| 2 | 80334240 | 2 | O-RING | |
| 3 | 80334241 | 1 | THRUST RING | |
| 4 | 80334242 | 2 | ENVIRONMENTAL SEAL | |
| 5 | 80334243 | 6 | SEAL ASSY | |
| 6 | 80334244 | 1 | BODY | |
| 7 | 80334245 | 1 | THRUST RING | |
| 8 | 80334246 | 1 | RETAINER | |
| 9 | 80334596 | 3 | SOCKET HD CAPSCREW, 3/8-16X1-1/8 | |
| 10 | 80334248 | 1 | PLUG | |
| 11 | 80334249 | 4 | PLUG | |
| 12 | 80334350 | 2 | PLUG | |
| 13 | 80334251 | 1 | SPOOL ADAPTER | |
| 14 | 80334004 | 1 | ROTARY CONTACT | |
| 15 | 80334252 | 4 | HEX HD CAPSCREW, 5/16-18X3/4 | |
| 16 | 80334253 | 2 | SOCKET HD CAPSCREW, 5/16-18X3/4 | |
| 17 | 80334597 | 1 | TORQUE ARM | |
| 18 | 80334255 | 1 | DEUTSCH CONNECTOR | |
| 19 | 88662329 | 1 | ELBOW, 90 DEGREES, (includes item 20) | |
| 20 | 88591204 | 3 | O-RING | |
| 21 | 88662301 | 2 | CONNECTOR, (includes item 20) | |
| 22 | 88662336 | 2 | ELBOW, 90 DEGREES, (includes item 23) | |
| 23 | 88591207 | 2 | O-RING | |
| 24 | 83201160 | 4 | HEX HD CAPSCREW, 1/2-13X1-1/2, GR8 | |
| 25 | 90027471 | 4 | HARDENED WASHER, 1/2 | |
| 26 | 80381112 | 1 | MOUNT PLATE | |
| 27 | 83201102 | 4 | HEX HD CAPSCREW, 5/8-11X2-1/2, GR8 | |
| 28 | 90027472 | 4 | HARDENED WASHER, 5/8 | |
| 29 | 88521210 | 4 | HEX LOCKNUT, 5/8-11 | |
| 30 | 80336005 | 1 | STABILIZER | |
| 31 | 88211107 | 4 | SOCKET HD CAPSCREW, 1/2-13X1-1/2, GR8 | |
| 32 | 88551013 | 4 | LOCKWASHER, (high collar), 1/2 | |

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**Figure 9-23 Power Take Off**



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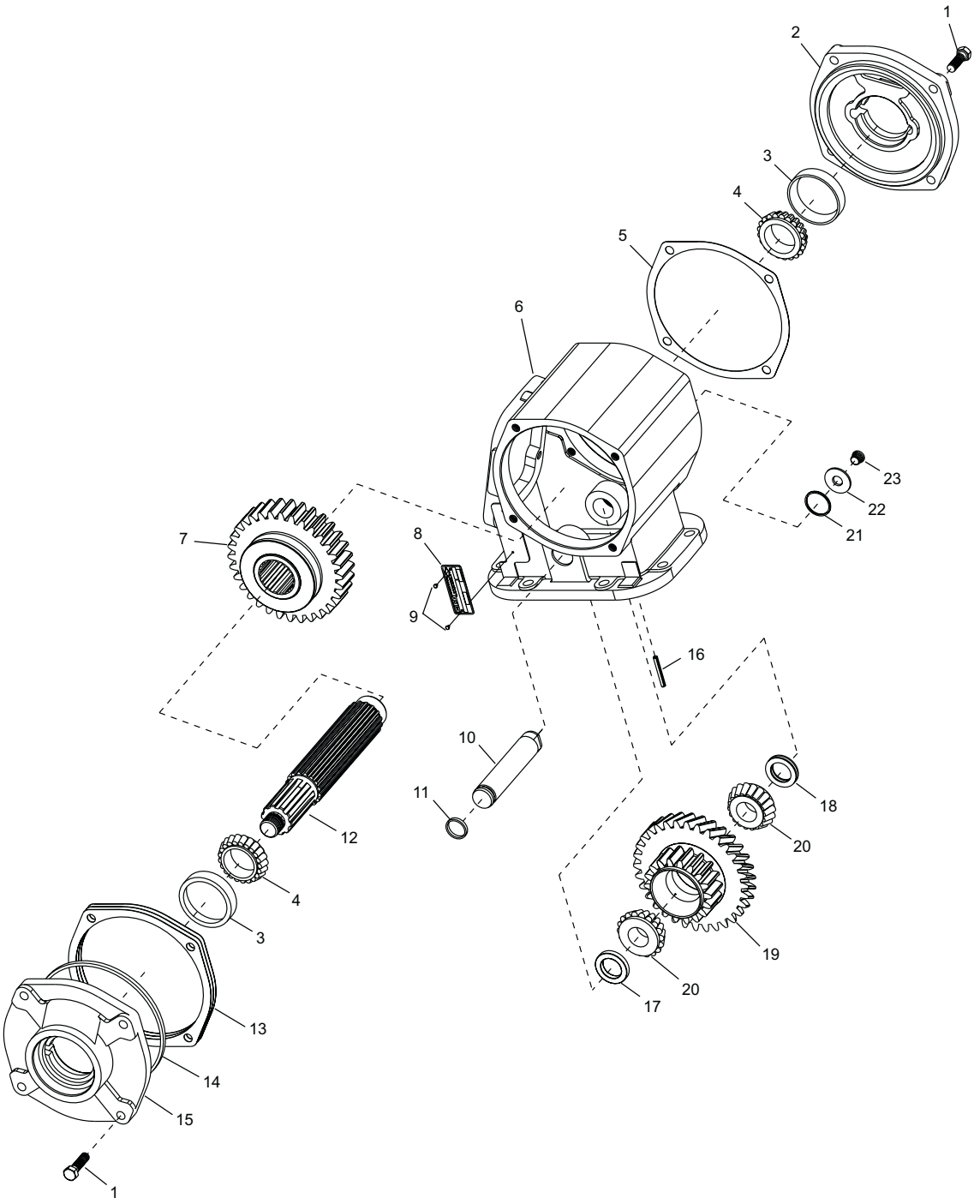
**Figure 9-23 Power Take Off**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383406 | 1 | POWER TAKE-OFF ASSY, (includes items 1, 2 & 3) | |
| 1 | | Ref | PTO HOUSING, (see Figure 9-24 for details) | |
| 2 | | Ref | PTO AIR SHIFT, (see Figure 9-25 for details) | |
| 3 | | Ref | PTO OUTPUT SHAFT & BEARING CAP, (see Figure 9-24 for details) | |
| 4 | 80383208 | 1 | TUBE FITTING | |
| 5 | 80383151 | 1 | TUBE FITTING | |
| 6 | | AR | NYLON TUBING, 3/8, (not shown) | |
| 7 | | AR | NYLON TUBING, 1/4, (not shown) | |
| | 80984263 | 1 | STUD KIT, (not shown), torque 45-50 lb-ft) | |
| | 80984264 | 1 | GASKET KIT, (not shown) | |

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**Figure 9-24 Power Take Off Housing**



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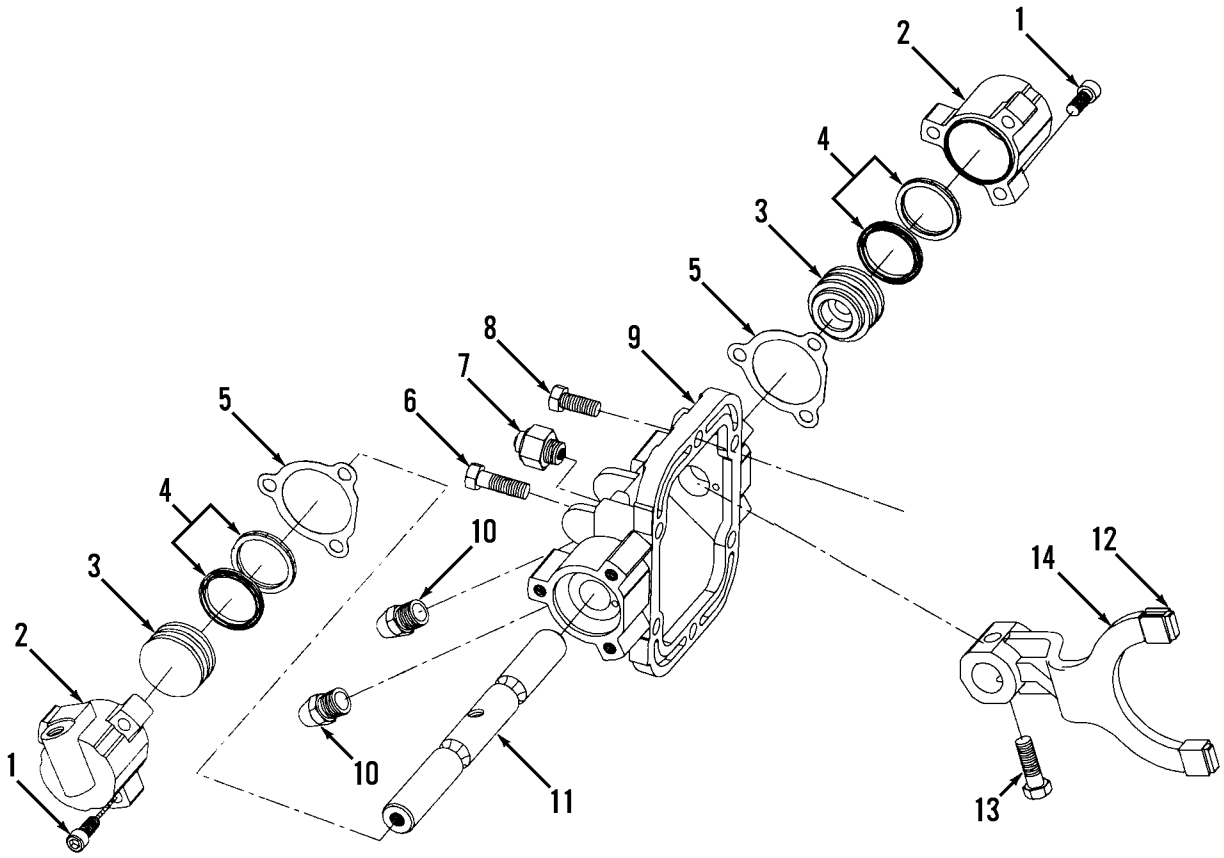
**Figure 9-24 Power Take Off Housing**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80984224 | 8 | HEX HD CAPSCREW, .375-16X1.125 | |
| 2 | 80984223 | 1 | BEARING CAP | |
| 3 | | 2 | TAPERED BEARING CAP | |
| 4 | 80384307 | 2 | BEARING CONE | |
| 5 | 80984222 | 1 | GASKET | |
| 6 | 80984221 | 1 | HOUSING, (includes item 16) | |
| 7 | 80684184 | 1 | OUTPUT GEAR | |
| 8 | 80984218 | 1 | NAMEPLATE | |
| 9 | 80984217 | 2 | DRIVE SCREW | |
| 10 | 80984220 | 1 | IDLER SHAFT | |
| 11 | 80984219 | 1 | O-RING | |
| 12 | | 1 | OUTPUT SHAFT | |
| 13 | 80984213 | AR | SHIM, (.003 thick), (GREEN) | |
| | 80984214 | AR | SHIM, (.010 thick), (BROWN) | |
| | 80984215 | AR | SHIM, (.020 thick), (YELLOW) | |
| 14 | 80984212 | 1 | O-RING | |
| 15 | | 1 | BEARING CAP | |
| 16 | | 1 | SLOTTED ROLL PIN | |
| 17 | 80984234 | 1 | INPUT BEARING SPACER | |
| 18 | 80984229 | AR | SPACER, (.055 thick) | |
| 19 | 80684183 | 1 | INPUT GEAR | |
| 20 | 80984232 | 2 | BEARING CONE | |
| 21 | 80984227 | 1 | O-RING | |
| 22 | 80984226 | 1 | O-RING | |
| 23 | 80984225 | 1 | HEX SOCKET CONNECTOR | |
| 24 | 80384329 | 2 | PIPE PLUG, (not illustrated) | |
| 25 | 80384414 | 1 | O-RING, (not illustrated) | |
| | 80984235 | 1 | PUMP OUTPUT GASKET & SEAL KIT | |
| | 80984236 | 1 | AIR SHIFT GASKET & SEAL KIT | |
| | 80984237 | 1 | OVERHAUL KIT | |
| | 80984238 | 1 | BEARING & SPACER KIT | |

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**Figure 9-25 Power Take Off Air Shift**



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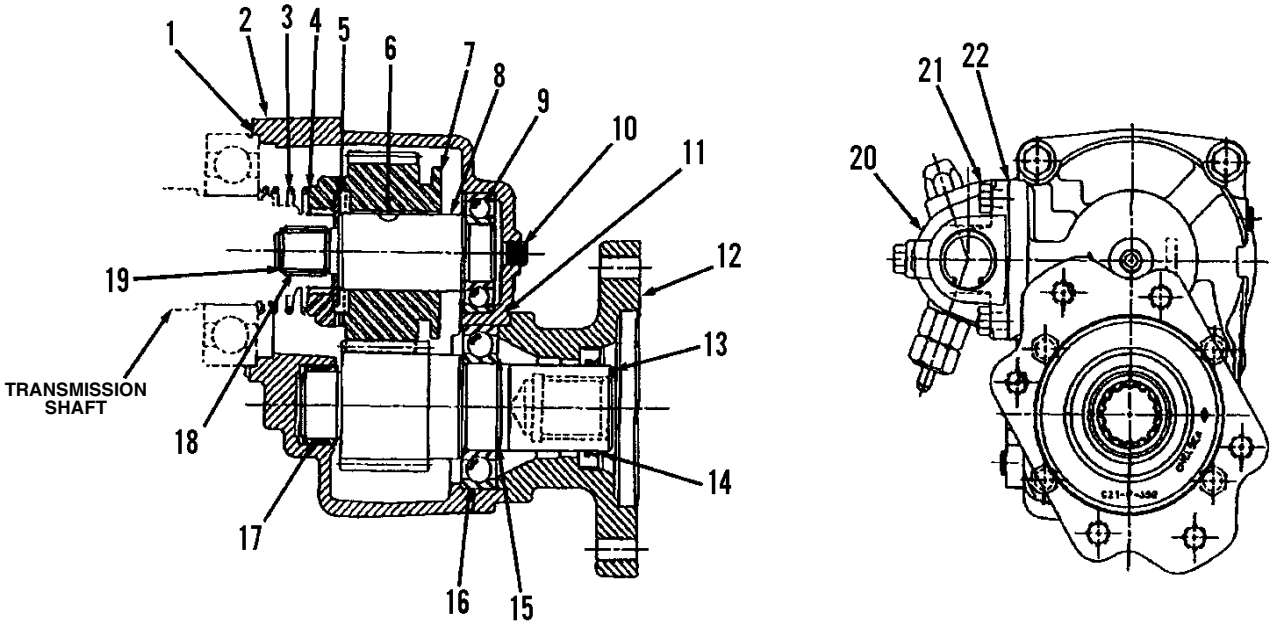
**Figure 9-25 Power Take Off Air Shift**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80384413 | 1 | AIR SHIFT COVER ASSY, (includes all items except items 6 & 8) | |
| 1 | 80984239 | 6 | SOCKET HD CAPSCREW, .312-18X1.250 | |
| 2 | 80984240 | 2 | CYLINDER CAP | |
| 3 | 80384417 | 2 | PISTON | |
| 4 | 83483174 | 4 | O-RING | |
| 5 | 80984243 | 2 | CYLINDER GASKET | |
| 6 | 80984244 | 4 | HEX HD CAPSCREW, .375-16X2.125 | |
| 7 | 80984245 | 1 | INDICATOR SWITCH | |
| 8 | 80984246 | 2 | HEX HD CAPSCREW, .375-16X1.125 | |
| 9 | 80984247 | 1 | SHIFTER COVER | |
| 10 | 80984248 | 2 | POPPET CAP | |
| 11 | 80984249 | 1 | SHIFTER SHAFT | |
| 12 | 80384418 | 2 | SHIFTER SHOE | |
| 13 | 80984251 | 1 | HEX HD CAPSCREW, .375-16X1.250 | |
| 14 | 80984252 | 1 | SHIFTER FORK | |

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**Figure 9-26 Power Take-Off Counter Shaft**



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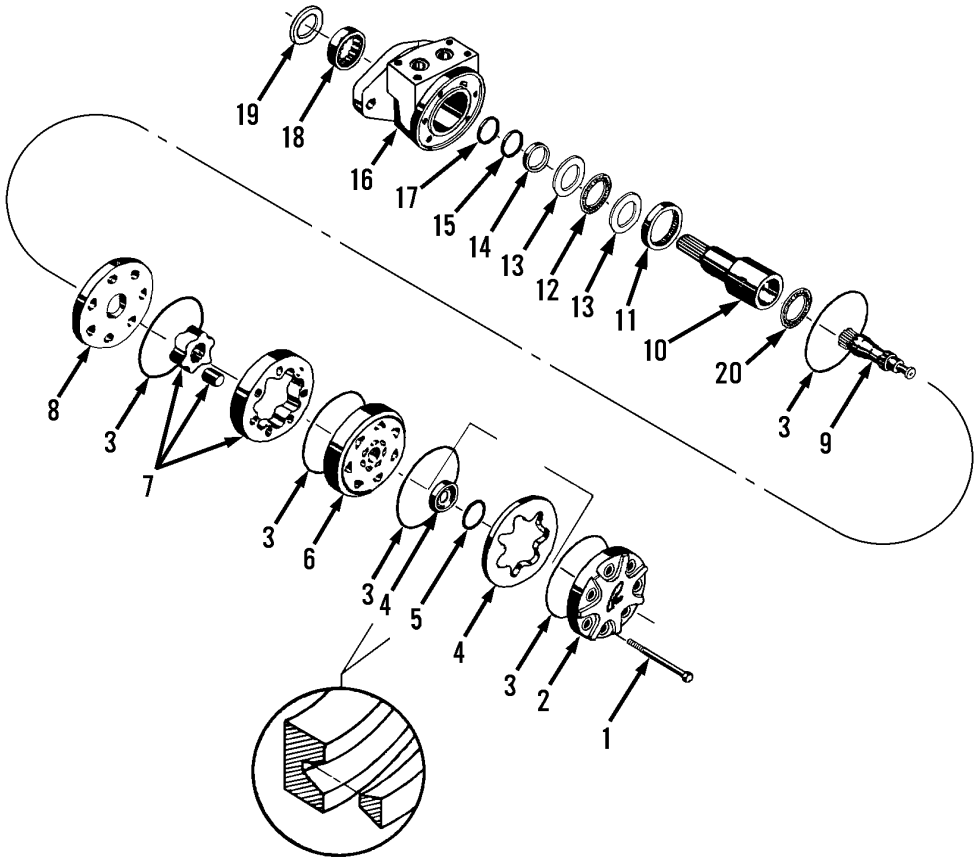
**Figure 9-26 Power Take-Off Counter Shaft**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383357 | 2 | COUNTER SHAFT, PTO, (includes all items) | |
| 1 | 80384320 | 1 | MOUNTING GASKET | |
| 2 | 80384321 | 1 | HOUSING | |
| 3 | 80384322 | 1 | SPRING | |
| 4 | 80384323 | 1 | CLUTCH | |
| 5 | 80384324 | 4 | THRUST WASHER | |
| 6 | 80384325 | 1 | KEY | |
| 7 | 80384326 | 1 | INPUT GEAR | |
| 8 | 80384327 | 1 | DRIVE SHAFT | |
| 9 | 80384328 | 2 | BEARING | |
| 10 | 80384329 | 1 | PIPE PLUG | |
| 11 | 80384330 | 1 | PIPE PLUG | |
| 12 | 80384331 | 1 | FLANGE | |
| 13 | 80384332 | 1 | OUTPUT SHAFT | |
| 14 | 83483153 | 1 | OIL SEAL | |
| 15 | 83483151 | 1 | SNAP RING | |
| 16 | 80384333 | 2 | BEARING | |
| 17 | 80384334 | 1 | BEARING | |
| 18 | 80384335 | 1 | BEARING | |
| 19 | 80384336 | 1 | SNAP RING | |
| 20 | 80384337 | 1 | AIR SHIFTER | |
| 21 | 80684005 | 4 | CAPSCREW | |
| 22 | 80384338 | 1 | SHIFTER GASKET | |
| | | | | |
| | 80384339 | 1 | MOUNTING KIT, (includes the following items) | |
| | | 1 | SPRING | |
| | | 2 | BOLT | |
| | | 2 | STUD | |
| | | 2 | NUT | |
| | | 2 | LOCKWASHER | |
| | | 2 | FLAT WASHER | |
| | | 1 | CLUTCH | |

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**Figure 9-27 L.H. Travel Motor**



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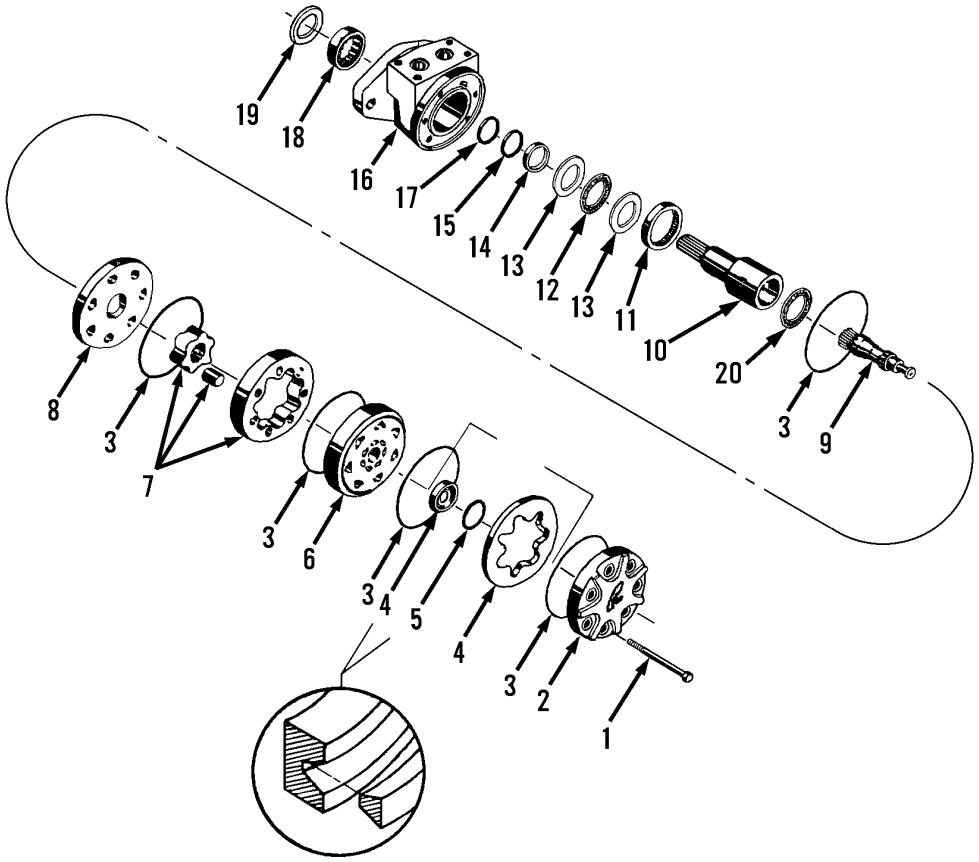
**Figure 9-27 L.H. Travel Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383274 | 1 | TRAVEL MOTOR ASSY, (includes all items) | |
| 1 | 80384284 | 7 | BOLT | |
| 2 | 80384285 | 1 | END COVER | |
| 3 | 80384286 | 5 | SEAL RING | |
| 4 | 80384287 | 1 | COMMUTATOR & RING ASSY | |
| 5 | 80324043 | 1 | COMMUTATOR SEAL | |
| 6 | 80384288 | 1 | MANIFOLD | |
| 7 | 80384289 | 1 | ROTOR ASSY | |
| 8 | 80384290 | 1 | WEAR PLATE | |
| 9 | 80384291 | 1 | DRIVE LINK | |
| 10 | 80384292 | 1 | COUPLING SHAFT | |
| 11 | 80484039 | 1 | INNER BEARING | |
| 12 | 80384294 | 1 | THRUST BEARING | |
| 13 | 80384295 | 2 | THRUST WASHER | |
| 14 | 80384296 | 1 | SHAFT SEAL | |
| 15 | 80384297 | 1 | BACK-UP RING | |
| 16 | 80484038 | 1 | HOUSING ASSY | |
| 17 | 80384299 | 1 | BACKUP WASHER | |
| 18 | 80384300 | 1 | OUTER BEARING | |
| 19 | 80384301 | 1 | SEAL | |
| 20 | 80384302 | 1 | THRUST BEARING | |
| | 80384305 | AR | SEAL KIT, (includes items 3, 5, 14, 15, 17 & 19) | |

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**Figure 9-28 R.H. Travel Motor**



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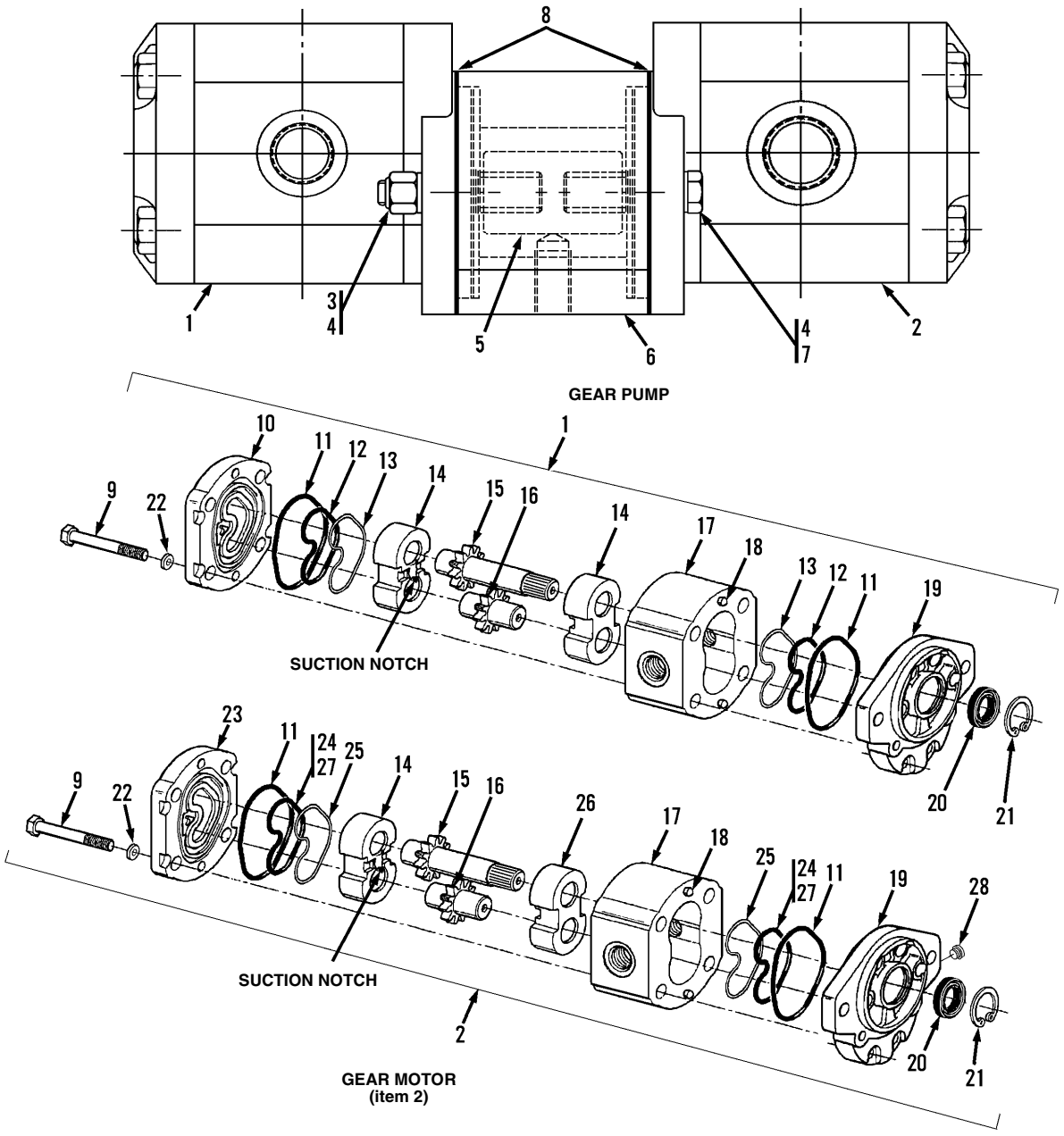
**Figure 9-28 R.H. Travel Motor**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383262 | 1 | TRAVEL MOTOR ASSY, (includes all items) | |
| 1 | 80384303 | 7 | BOLT | |
| 2 | 80384304 | 1 | END COVER | |
| 3 | 80384286 | 5 | SEAL RING | |
| 4 | 80384287 | 1 | COMMUTATOR & RING ASSY | |
| 5 | 80324043 | 1 | COMMUTATOR SEAL | |
| 6 | 80384288 | 1 | MANIFOLD | |
| 7 | 80384289 | 1 | ROTOR ASSY | |
| 8 | 80384290 | 1 | WEAR PLATE | |
| 9 | 80384291 | 1 | DRIVE LINK | |
| 10 | 80384292 | 1 | COUPLING SHAFT | |
| 11 | 80484039 | 1 | INNER BEARING | |
| 12 | 80384294 | 1 | THRUST BEARING | |
| 13 | 80384295 | 2 | THRUST WASHER | |
| 14 | 80384296 | 1 | SHAFT SEAL | |
| 15 | 80384297 | 1 | BACK-UP RING | |
| 16 | 80484038 | 1 | HOUSING ASSY | |
| 17 | 80384299 | 1 | BACKUP WASHER | |
| 18 | 80384300 | 1 | OUTER BEARING | |
| 19 | 80384301 | 1 | SEAL | |
| 20 | 80384302 | 1 | THRUST BEARING | |
| | | | | |
| | 80384305 | AR | SEAL KIT, (includes items 3, 5, 14, 15, 17 & 19) | |

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**Figure 9-29 Hydraulic Heater Pump**



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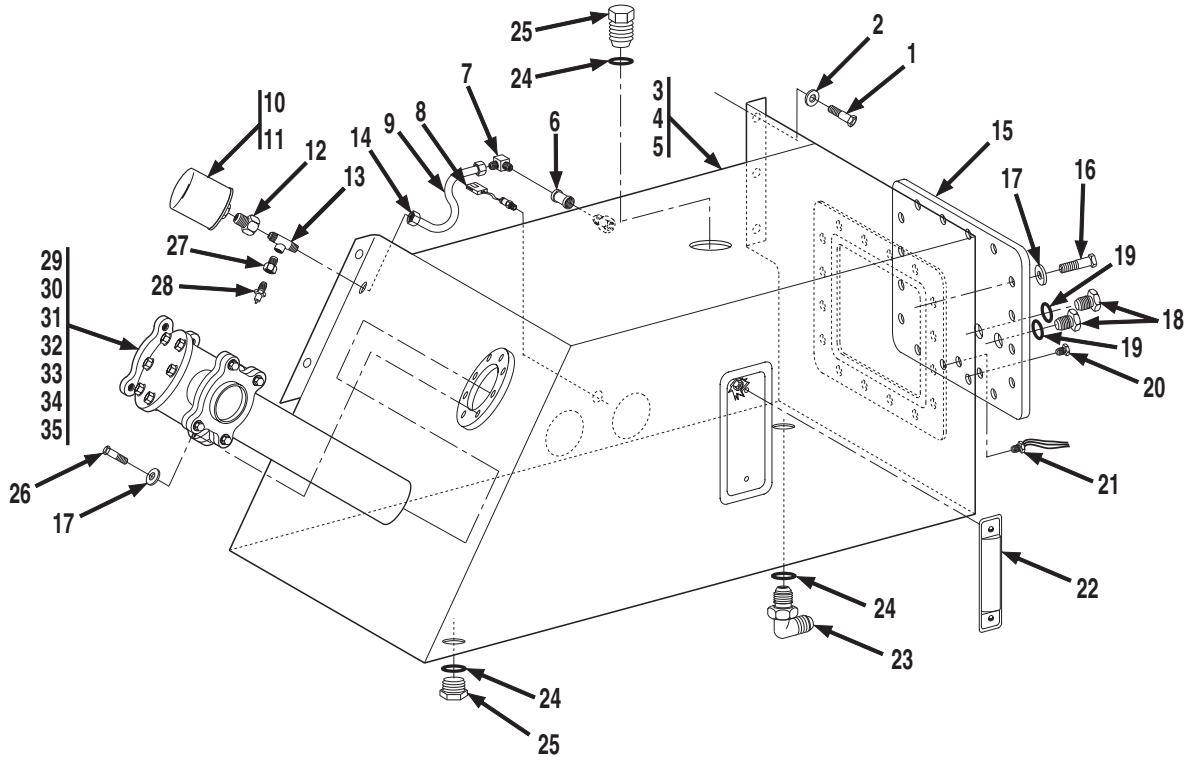
**Figure 9-29 Hydraulic Heater Pump**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80433129 | 1 | HYDRAULIC HEATER PUMP ASSY, (includes all items) | |
| 1 | 80434010 | 1 | GEAR PUMP ASSY, (includes items designated in upper illustration) | |
| 2 | 80434011 | 1 | GEAR MOTOR ASSY, (includes items designated in upper illustration) | |
| 3 | 80434012 | 2 | LOCK NUT | |
| 4 | 80434013 | 4 | WASHER | |
| 5 | 80334265 | 1 | COUPLER | |
| 6 | 80334266 | 1 | ADAPTER BLOCK | |
| 7 | 80434014 | 2 | BOLT | |
| 8 | 80434015 | 2 | GASKET | |
| 9 | 80434016 | 8 | BOLT, (lubricate & torque to 32 lb-ft) | |
| 10 | 80434017 | 1 | REAR COVER | |
| 11 | 80434018 | 4 | BODY O-RING | |
| 12 | 80434019 | 4 | LOADING O-RING | |
| 13 | 80434020 | 4 | LOADING O-RING BACK-UP | |
| 14 | 80434021 | 2 | BUSHING BLOCK | |
| 15 | 80434022 | 2 | SPLINED DRIVESHAFT | |
| 16 | 80434023 | 2 | DRIVEN GEAR | |
| 17 | 80434024 | 2 | GEAR HOUSING | |
| 18 | 80434037 | 4 | DOWEL PIN | |
| 19 | 80434026 | 1 | MOUNT FLANGE, (includes items 20 & 21) | |
| 20 | 80434027 | 2 | SHAFT SEAL | |
| 21 | 80434028 | 2 | SNAP RING | |
| 22 | 80434013 | 8 | WASHER | |
| 23 | 80434030 | 1 | REAR COVER | |
| 24 | 80434232 | 2 | LOADING O-RING | |
| 25 | 80434233 | 2 | LOADING O-RING | |
| 26 | 80434033 | 2 | BUSHING BLOCK | |
| 27 | 80434032 | 1 | LOADING O-RING BACK-UP | |
| 28 | 80434043 | 1 | CHECK VALVE | |
| | | | | |
| | 80434230 | 1 | GEAR PUMP SEAL KIT, (includes items 11, 12, 13, 20 & 21) | |
| | 80434231 | 1 | MOTOR PUMP SEAL KIT, (includes items 11, 20, 21, 24, 25 & 27) | |

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**Figure 9-30 Reservoir Assembly**

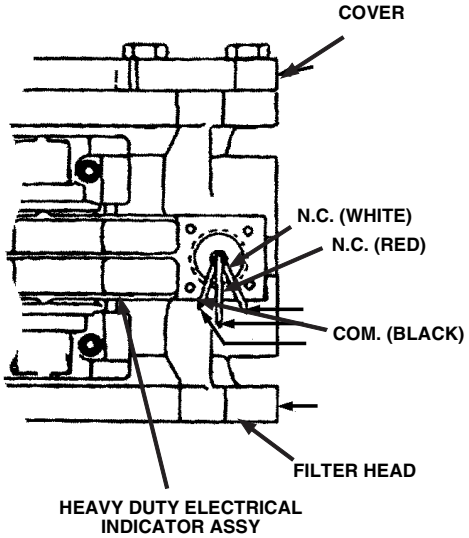


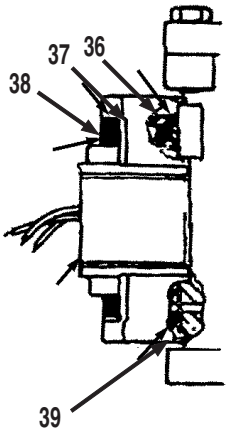

**LUBRICATE & INSTALL O-RING INTO RECESS ON INDICATOR ASSY. USE VASELINE OR EQUIVALENT LUBRICANT FOR SEALS.**

**CAUTION**

**DO NOT OVER TORQUE SCREWS (18-24 lb-in)**

**REPLACEMENT MOUNTING KIT: 80373118, CONSISTS OF: (1) GASKET, (80384389), (8) STATIC SEAL A, (80384389) & (6) STATIC SEAL B, (80384388).**



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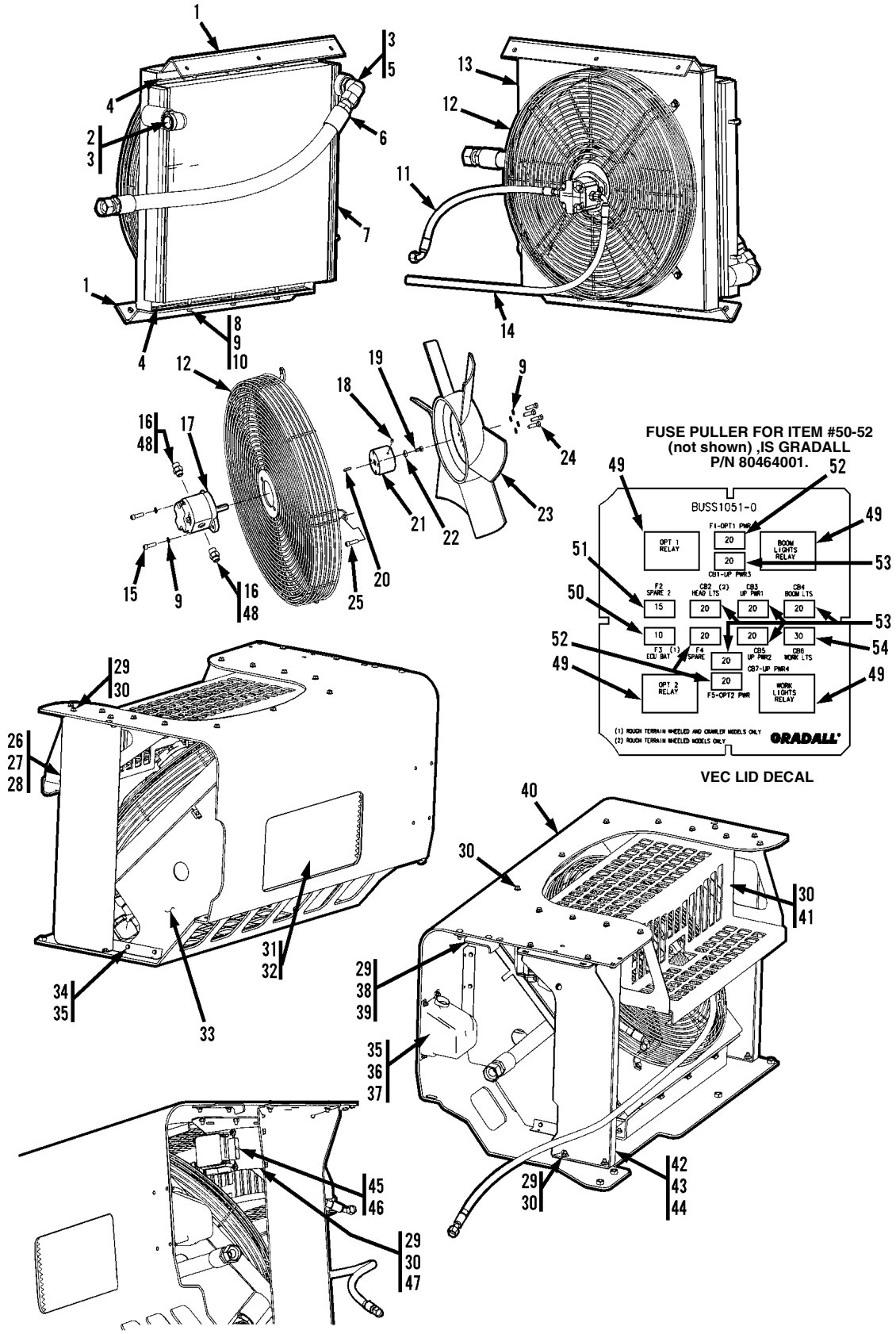
**Figure 9-30 Reservoir Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385016 | 1 | RESERVOIR ASSY, (includes all items except items 1, 3 & 36 thru 39) | |
| 1 | 83201092 | 5 | HEX HD CAPSCREW, 5/8-11X2, GR8 | |
| 2 | 90027472 | 5 | HARDENED WASHER, 5/8 | |
| 3 | 88831028 | 1 | CAP PLUG | |
| 4 | 80386023 | 1 | RESERVOIR WELDMENT | |
| 5 | 80273086 | 2 | SUCTION STRAINER, (inside tank) | |
| 6 | 80383147 | 1 | TUBE FITTING, 1/4X3/8 | |
| 7 | 86983649 | 1 | TUBE FITTING, 90 DEGREES, 1/4X1/4 | |
| 8 | 80383209 | 1 | HYDRAULIC TEMPERATURE SENDER | |
| 9 | | 19” | NYLON TUBE, 3/8 | |
| 10 | 80235006 | 1 | BREATHER ASSY, (includes items 11 thru 13, 27 & 28) | |
| 11 | 80933068 | 1 | RESERVOIR BREATHER | |
| 12 | 88711573 | 1 | REDUCING BUSHING, 1/2X3/8 | |
| 13 | 86983651 | 1 | STREET TEE, 3/8 | |
| 14 | 80383142 | 1 | TUBE FITTING, 3/8X3/8 | |
| 15 | 80381242 | 1 | COVER PLATE | |
| | 14404857 | AR | PERMABOND | |
| 16 | 88201036 | 16 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 17 | 88551011 | 24 | LOCKWASHER, 3/8 | |
| 18 | 88662193 | 2 | HEX SOCKET HEAD PLUG, 3/4-16, (includes item 19) | |
| 19 | 88591205 | 2 | O-RING | |
| 20 | 86983772 | 1 | PIPE PLUG, 3/8 | |
| 21 | 80933061 | 1 | HYDRAULIC LEVEL PROBE | |
| 22 | 91083070 | 1 | FLUID LEVEL GAUGE | |
| 23 | 88662334 | 1 | ELBOW, 90 DEGREES, (includes item 24) | |
| 24 | 88591210 | 3 | O-RING | |
| 25 | 88662180 | 2 | HEX HD PLUG (includes item 24) | |
| 26 | 88201034 | 8 | HEX HD CAPSCREW, 3/8-16X7/8, GR5 | |
| 27 | 80383301 | 1 | REDUCING BUSHING, 3/8X1/4 | |
| 28 | 80973044 | 1 | DRAIN VALVE | |
| 29 | 80383310 | 1 | IN-LINE FILTER | |
| 30 | 80963060 | 1 | WEATHERPAK SHROUD | |
| 31 | 80963069 | 3 | MALE PIN | |
| 32 | 80963067 | 3 | SEAL | |
| 33 | 80274011 | 1 | PRESSURE SWITCH, 35 PSI | |
| 34 | 80274015 | 3 | O-RING | |
| 35 | 80273008 | 1 | IN-LINE FILTER ELEMENT | |
| 36 | 80384425 | 2 | GASKET | |
| 37 | 80384423 | 4 | LOCKWASHER | |
| 38 | 80474012 | 4 | SOCKET HD CAPSCREW | |
| 39 | 80384424 | 2 | VITON O-RING | |

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**Figure 9-31 Oil Cooler Assembly**



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**Figure 9-31 Oil Cooler Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80371065 | 1 | OIL COOLER BRACKET | |
| 2 | 88662495 | 1 | ELBOW, 90 DEGREES, (includes item 3) | |
| 3 | 88591210 | 2 | O-RING | |
| 4 | 80371064 | 2 | SPACER CHANNEL | |
| 5 | 88662334 | 1 | ELBOW, 90 DEGREES, (includes item 3) | |
| 6 | 84718905 | 1 | HOSE ASSY | |
| 7 | 80273021 | 1 | OIL COOLER | |
| 8 | 88201041 | 6 | HEX HD CAPSCREW, 3/8-16X2-1/2, GR5 | |
| 9 | 88551011 | 16 | LOCKWASHER, 3/8 | |
| 10 | 88561004 | 6 | FLAT WASHER, 3/8 | |
| 11 | 84719338 | 1 | HOSE ASSY | |
| 12 | 80373005 | 1 | FAN GUARD | |
| 13 | 80373006 | 1 | FAN SHROUD | |
| 14 | 84719106 | 1 | HOSE ASSY | |
| 15 | 88211072 | 2 | SOCKET HD CAPSCREW, 3/8-16X1-1/4, GR8 | |
| 16 | 88662430 | 2 | CONNECTOR, (includes item 48) | |
| 17 | 80333201 | 1 | HYDRAULIC MOTOR | |
| 18 | 88221069 | 1 | SOCKET SET SCREW, (cup point), 5/16-18X1/2 | |
| 19 | 83191007 | 1 | HEX HD CAPSCREW, M8-1.25X16, GR8, (loctite & torque to 15 lb-ft) | |
| 20 | 80471039 | 1 | SQUARE KEY, 5mm | |
| 21 | 80371197 | 1 | FAN HUB | |
| 22 | 80471038 | 1 | SPECIAL WASHER | |
| 23 | 83683515 | 1 | FAN, 24” | |
| 24 | 88201036 | 4 | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 | |
| 25 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 26 | 80371159 | 1 | REAR STIFFENER | |
| 27 | 80371155 | AR | SHIM, (.060 thick) | |
| 28 | 80371156 | AR | SHIM, (.0359 thick) | |
| 29 | 77143015 | 12 | WHIZ-LOK NUT, 3/8-16 | |
| 30 | 80973025 | 24 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 31 | 80371111 | 1 | COOLER SCREEN | |
| 32 | 14405334 | AR | METHACRYLATE ADHESIVE | |
| 33 | 80373110 | 2 | AIR FLAP | |
| 34 | 80263012 | 12 | WHIZ-LOK SCREW, 1/4-20X1/2 | |
| 35 | 77143013 | 20 | WHIZ-LOK NUT, 1/4-20 | |
| 36 | 83683085 | 1 | WASHER BOTTLE | |
| 37 | 88261017 | 4 | SOCKET BUTTON HD CAPSCREW, 1/4-20X7/8 | |
| 38 | 80371082 | 1 | SUPPORT | |
| 39 | 88411062 | 2 | ROUND HD CARRIAGE BOLT, 3/8-16X1 | |
| 40 | 80371201 | 1 | BODY SHEET | |
| 41 | 80476008 | 1 | OIL COOLER STRAP | |
| 42 | 80371160 | 1 | FRONT STIFFENER | |
| 43 | 80371157 | AR | SHIM, (.060 thick) | |
| 44 | 80371158 | AR | SHIM, (.0359 thick) | |
| 45 | 80463008 | 1 | UPPER VEC | |
| 46 | 88201003 | 4 | HEX HD CAPSCREW, 1/4-20X3/4, GR5 | |
| 47 | 80411035 | 1 | MOUNTING BRACKET | |
| 48 | 88501206 | 2 | O-RING | |
| 49 | 80464002 | 4 | MINI-RELAY | |

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**Figure 9-31 Oil Cooler Assembly (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 50 | 80464003 | 1 | FUSE, 10A | |
| 51 | 80464004 | 1 | FUSE, 15A | |
| 52 | 80464005 | 3 | FUSE, 20A | |
| 53 | 80464006 | 6 | CIRCUIT BREAKER, 20A | |
| 54 | 80464007 | 1 | CIRCUIT BREAKER, 30A | |

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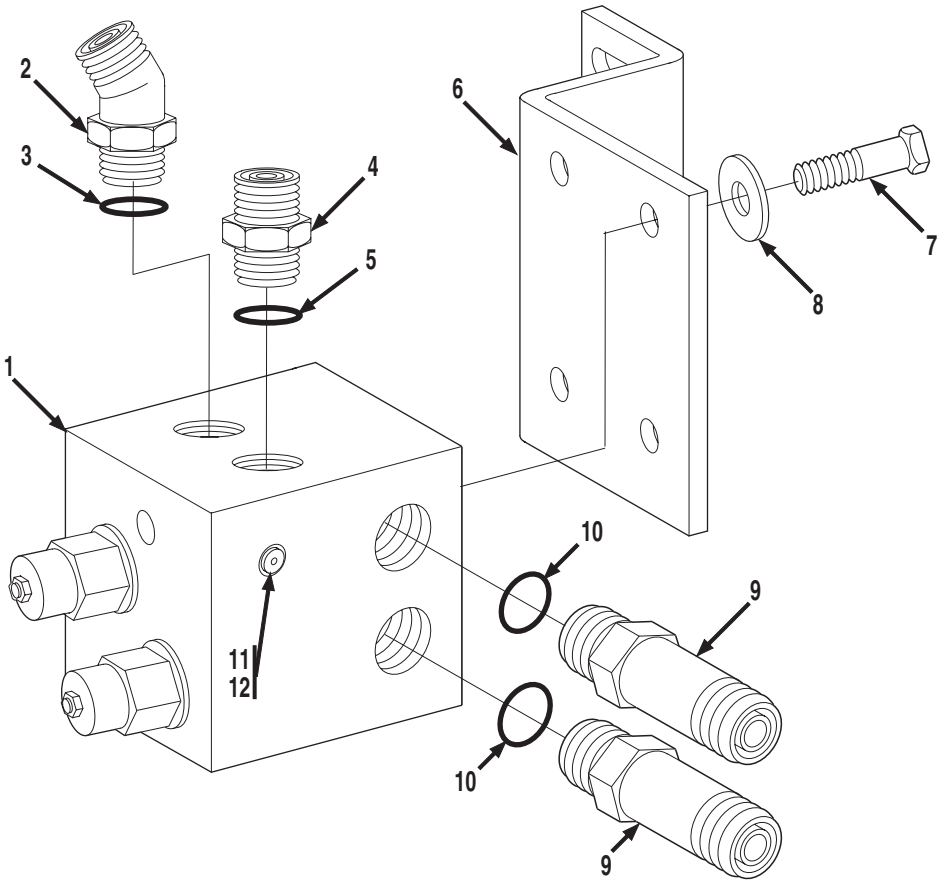
**Figure 9-31 Oil Cooler Assembly (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 9-32 Counterbalance Valve Assembly**



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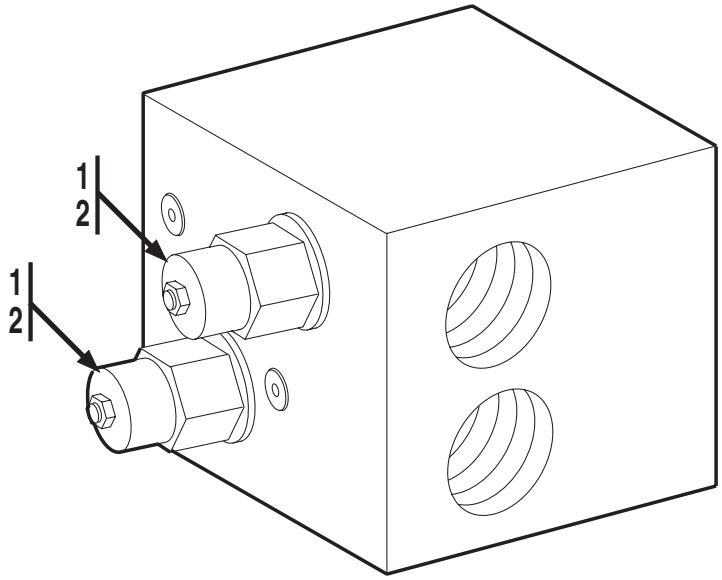
**Figure 9-32 Counterbalance Valve Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385129 | 1 | COUNTERBALANCE VALVE ASSY, (includes all items) | |
| 1 | | Ref | COUNTERBALANCE VALVE, (see Figure 9-34 for details) | |
| 2 | 80983034 | 1 | ELBOW, 45 DEGREES, (includes item 3) | |
| 3 | | 1 | O-RING | |
| 4 | 88662309 | 1 | CONNECTOR, (includes item 5) | |
| 5 | 88591209 | 1 | O-RING | |
| 6 | 80381128 | 1 | MOUNTING BRACKET | |
| 7 | 88201035 | 4 | HEX HD CAPSCREW, 3/8-16X1, GR5 | |
| 8 | 88551011 | 4 | LOCKWASHER, 3/8 | |
| 9 | 88662324 | 2 | LONG CONNECTOR, (includes item 10) | |
| 10 | 88591206 | 2 | O-RING | |
| 11 | 88662190 | 1 | HEX HEAD PLUG, (includes item 12) | |
| 12 | 88591202 | 1 | O-RING | |

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**Figure 9-33 Counterbalance Valve**



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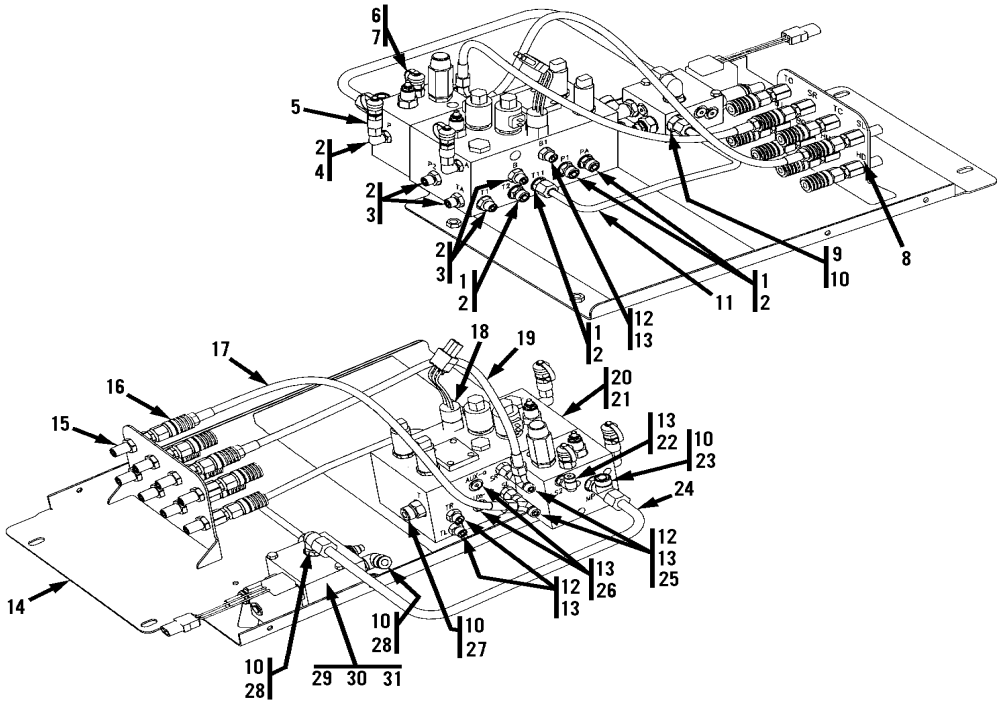
**Figure 9-33 Counterbalance Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383413 | 1 | COUNTERBALANCE VALVE, (includes all items) | |
| 1 | 80384427 | 2 | VALVE CARTRIDGE | |
| 2 | 80384428 | 2 | SEAL KIT | |

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**Figure 9-34 Cooling Fan Valve**



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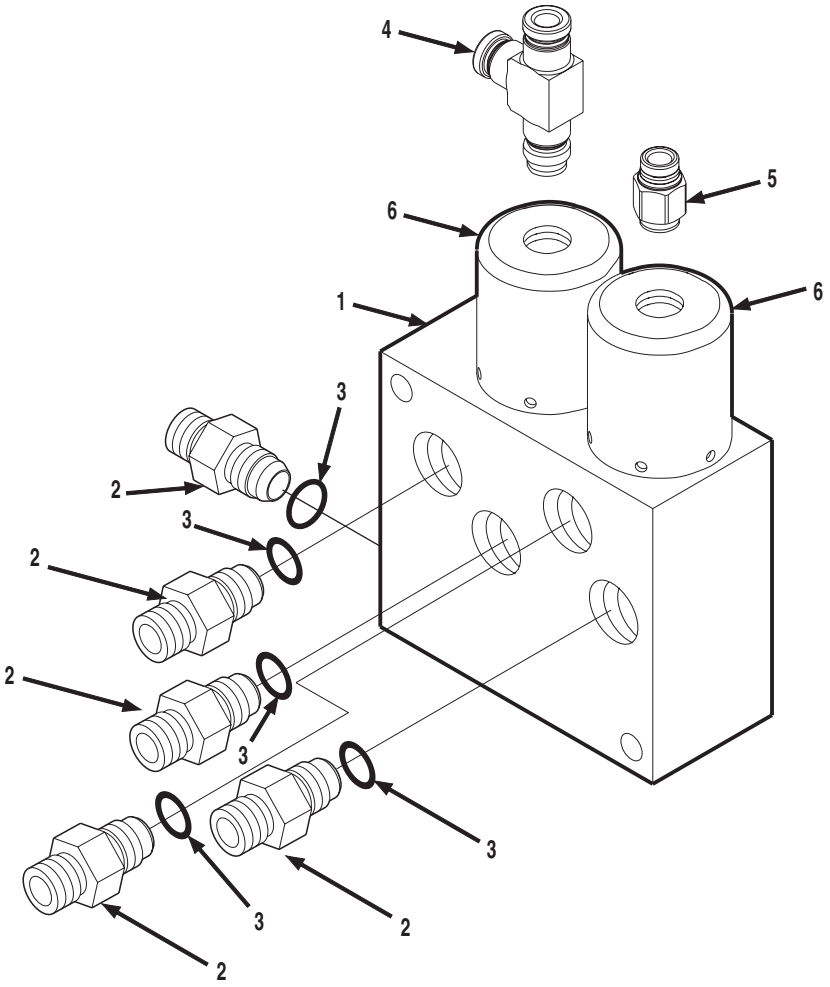
**Figure 9-34 Cooling Fan Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80333136 | 1 | COOLING FAN VALVE, (includes all items) | |
| 2 | | 1 | VALVE BLOCK | |
| 3 | 80334258 | 1 | PRESSURE REDUCING VALVE | |
| 4 | 80334257 | 1 | LOWER LEVEL FLUID CONTROL VALVE | |
| 5 | 80334256 | 1 | COIL w/WEATHERPAK | |

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**Figure 9-35 Stabilizer Valve**



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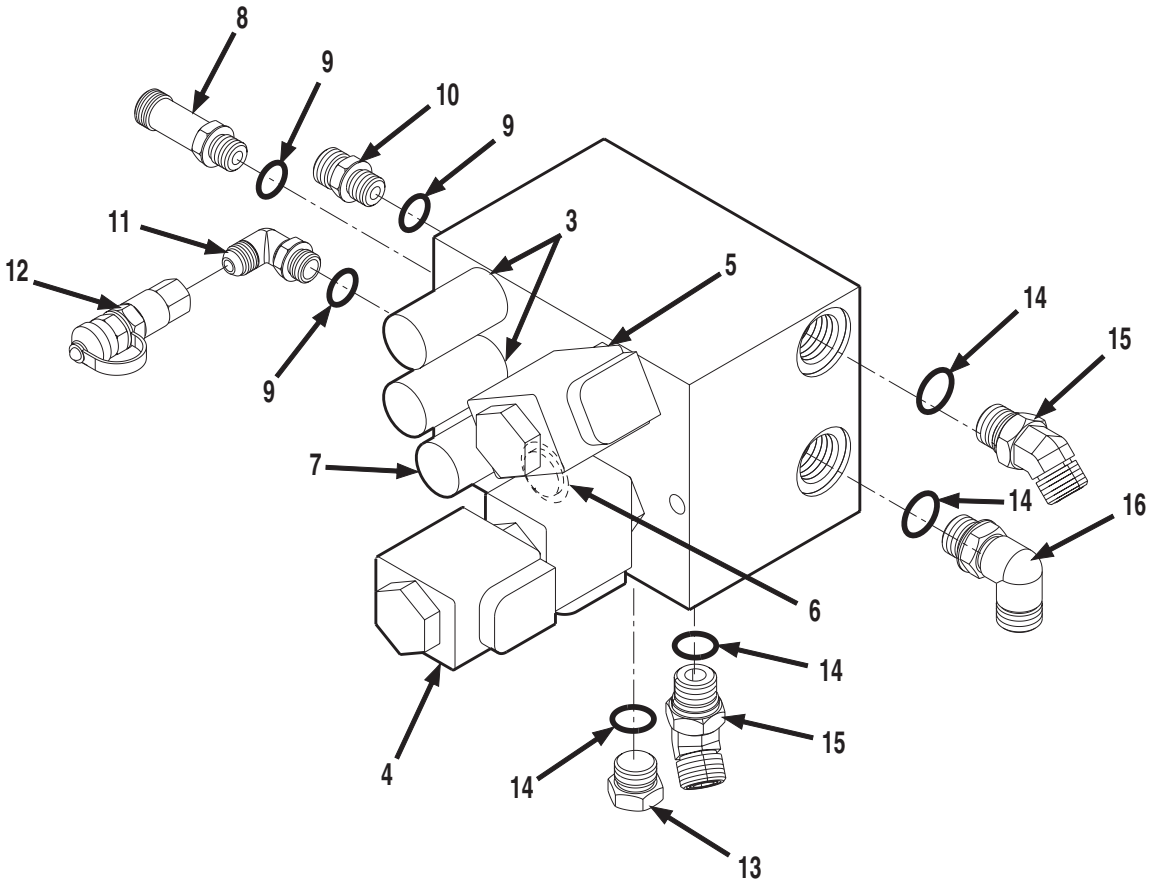
**Figure 9-35 Stabilizer Valve**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80383424 | 1 | STABILIZER VALVE ASSY, (includes all items) | |
| 1 | | 1 | VALVE BLOCK | |
| 2 | 88662301 | 5 | CONNECTOR, (includes item 6) | |
| 3 | 80484124 | 2 | PILOTED CARTRIDGE VALVE ASSY | |
| | 80484125 | 2 | PILOTED CARTRIDGE SEAL KIT | |
| 4 | 80383182 | 1 | TUBE FITTING | |
| 5 | 80383139 | 2 | STRAIGHT FITTING | |
| 6 | 88591204 | 5 | O-RING | |

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**Figure 9-36 Steering Valve Assembly**



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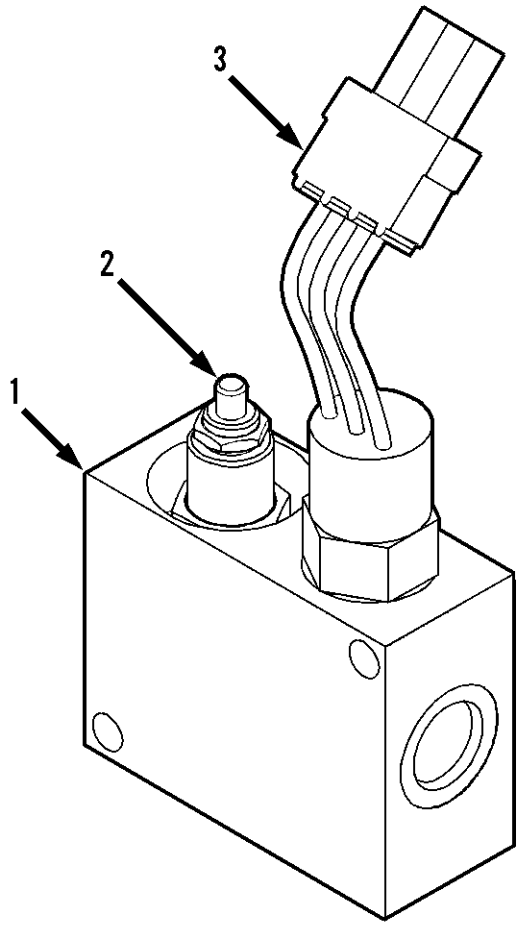
**Figure 9-36 Steering Valve Assembly**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485077 | 1 | STEERING VALVE ASSY, (includes all items) | |
| 1 | 80383427 | 1 | STEERING VALVE ASSY, (includes items 2 thru 7) | |
| 2 | | 1 | VALVE BLOCK ASSY | |
| 3 | 80384429 | 1 | RELIEF CARTRIDGE w/REVERSE CHECK | |
| | 80384430 | 1 | RELIEF CARTRIDGE w/REVERSE SEAL KIT | |
| 4 | 80384431 | 1 | 3 POSITION, 4-WAY CARTRIDGE | |
| | 80384434 | 2 | COIL, 12V | |
| 5 | 80384433 | 1 | 2 POSITION, 4-WAY CARTRIDGE | |
| | 80384434 | 1 | COIL, 12V | |
| 6 | 80384435 | 1 | PRIORITY FLOW CONTROL | |
| 7 | 80384437 | 1 | RELIEF CARTRIDGE | |
| 8 | 88662321 | 1 | LONG CONNECTOR, (includes item 9) | |
| 9 | 88591204 | 3 | O-RING | |
| 10 | 88662301 | 1 | CONNECTOR, (includes item 9) | |
| 11 | 88662064 | 1 | ELBOW, 90 DEGREES, (includes item 9) | |
| 12 | 91143172 | 1 | TEST COUPLING | |
| 13 | 88662175 | 1 | HEX HD PLUG, (includes item 14) | |
| 14 | 88591205 | 4 | O-RING | |
| 15 | 88662419 | 2 | ELBOW, 45 DEGREES, (includes item 14) | |
| 16 | 88662330 | 1 | ELBOW, 90 DEGREES, (includes item 14) | |
| | 80384432 | 1 | SEAL KIT | |
| | 80384432 | 1 | SEAL KIT | |
| | 80384436 | 1 | PRIORITY FLOW CONTROL SEAL KIT | |
| | 80384430 | 1 | RELIEF CARTRIDGE SEAL KIT | |

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**Figure 9-37 Hydraulic Heater Manifold**



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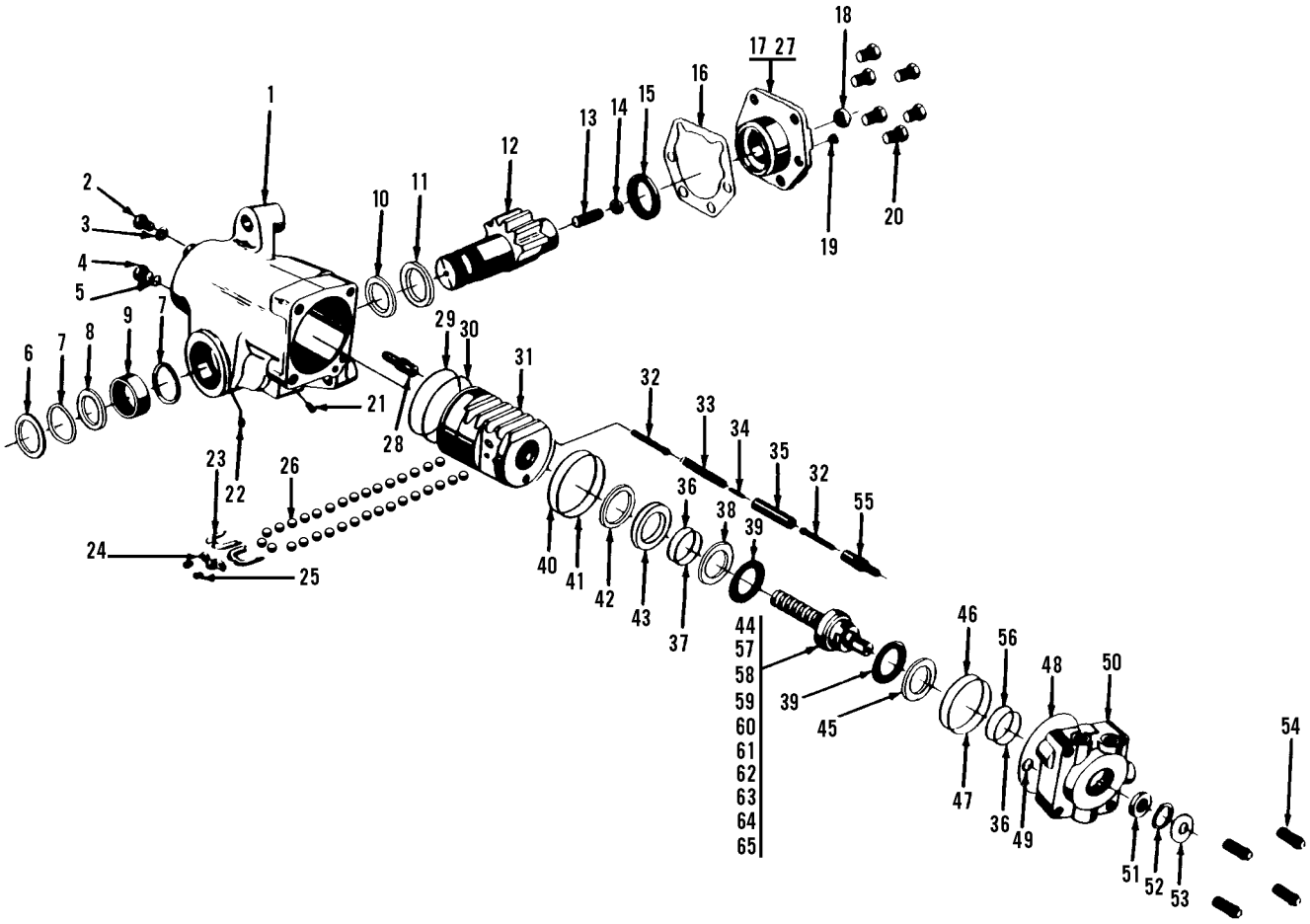
**Figure 9-37 Hydraulic Heater Manifold**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80433130 | 1 | HYDRAULIC HEATER MANIFOLD ASSY, (includes all items) | |
| 1 | | 1 | VALVE BODY | |
| 2 | 80434045 | 1 | RELIEF VALVE | |
| 3 | 80333154 | 1 | TEMPERATURE SWITCH | |
| | 80434044 | 1 | SEAL KIT, (includes all required seals) | |

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**Figure 9-38 Steering Gear**



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**Figure 9-38 Steering Gear**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 77383697 | 1 | STEERING GEAR ASSY, (includes all items) | |
| 1 | 77384670 | 1 | HOUSING ASSY (includes items 7, 8, 9, 10, 11, 22 & 55) | |
| 2 | 77384671 | 1 | HEX HD CAPSCREW, 7/16-20X1-1/4 | |
| 3 | 77384672 | 1 | FLAT WASHER, 7/16, (copper) | |
| 4 | 77384673 | 1 | PLUG, 9/16 | |
| 5 | 77384277 | 1 | O-RING | |
| 6 | 77384674 | 1 | DIRT & WATER SEAL | |
| 7 | 77384675 | 2 | RETAINING RING | |
| 8 | 77384676 | 1 | DIRT SEAL | |
| 9 | 77384677 | 1 | ROLLER BEARING | |
| 10 | 77384678 | 1 | WASHER-SPACER | |
| 11 | 77384679 | 1 | OUTPUT SEAL | |
| 12 | 77384283 | 1 | SECTOR SHAFT ASSY, (includes items 13 & 14) | |
| 13 | 86881522 | 1 | ADJUSTING SCREW | |
| 14 | 86881521 | 1 | RETAINER | |
| 15 | 77384282 | 1 | OUTPUT SEAL | |
| 16 | 83683900 | 1 | SIDE COVER GASKET | |
| 17 | 77384680 | 1 | SIDE COVER ASSY, (includes items 15 & 27) | |
| 18 | 77384278 | 1 | HEX JAM NUT, 1/2-20 | |
| 19 | 86881514 | 1 | VENT PLUG | |
| 20 | 77384279 | 5 | HEX HD CAPSCREW | |
| 21 | 77384275 | 1 | BLEEDER SCREW, (lubricate & torque to 27-33 lb-ft) | |
| 22 | 77384681 | 1 | GREASE FITTING | |
| 23 | 77384682 | 2 | BALL RETURN GUIDE | |
| 24 | 77384683 | 1 | BALL RETURN GUIDE CLIP | |
| 25 | 77384289 | 2 | HEX HD CAPSCREW | |
| 26 | 77384684 | 32 | BALL | |
| 27 | 77384521 | 1 | BUSHING | |
| 28 | 77384685 | 1 | POPPET ADJUSTER SEAT & SLEEVE | |
| 29 | 83683875 | 1 | SEAL RING | |
| 30 | 83683876 | 1 | O-RING | |
| 31 | 77384686 | 1 | WORM, VALVE & RACK ASSY, (includes items 23 thru 26, 28 thru 35 & 56) | |
| 32 | 77384687 | 2 | POPPET | |
| 33 | 77384688 | 1 | POPPET SPRING | |
| 34 | 77384715 | 1 | SPACE ROD | |
| 35 | 77384689 | 1 | PUSH TUBE | |
| 36 | 77384690 | 2 | O-RING | |
| 37 | 77384691 | 1 | SEAL | |
| 38 | 77384692 | 1 | THRUST WASHER, (thin) | |
| 39 | 77384693 | 2 | THRUST BEARING | |
| 40 | 83683876 | 1 | O-RING | |
| 41 | 83683875 | 1 | SEAL RING | |
| 42 | 77384694 | 1 | ADJUSTER LOCKNUT | |
| 43 | 77384695 | 1 | BEARING ADJUSTER | |
| 44 | 77384696 | 1 | WORM & VALVE SERVICE ASSY, (includes item 57 thru 65) | |
| 45 | 77384716 | 1 | THRUST WASHER, (thick) | |
| 46 | 77384697 | 1 | SEAL | |
| 47 | 77384698 | 1 | O-RING | |
| 48 | 83683871 | 1 | SEAL RING | |

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**Figure 9-38 Steering Gear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 49 | 77384699 | 1 | O-RING | |
| 50 | 77384700 | 1 | VALVE HOUSING ASSY | |
| 51 | | 1 | INPUT SEAL | |
| 52 | | 1 | RETAINING RING | |
| 53 | | 1 | DIRT & WATER SEAL | |
| 54 | 77384285 | 4 | VALVE HOUSING BOLT | |
| 55 | 77384704 | 1 | POPPET ADJUSTER SEAT & SLEEVE | |
| 56 | 77384697 | 1 | SEAL | |
| 57 | 77384706 | 1 | INPUT & WORM ASSY | |
| 58 | 77384707 | 1 | WORM SCREW | |
| 59 | 77384708 | 1 | INPUT SHAFT | |
| 60 | 77384709 | 1 | O-RING | |
| 61 | 77384710 | 1 | T-BAR PIN | |
| 62 | 77384711 | 1 | BALL, 7/32 | |
| 63 | 77384712 | 1 | T-BAR | |
| 64 | 77384713 | 1 | T-BAR PIN | |
| 65 | 77384714 | 1 | O-RING | |
| | 77383746 | Ref | POPPET ADJUSTING KIT | |
| | 77384774 | 1 | STEERING GEAR SEAL KIT, (includes items 5, 6, 8, 15, 16, 19, 23, 24, 29, 30, 36, 37, 40, 41, 42, 46, 47, 48, 49, 52, 53 & 56) | |
| | 77384799 | 1 | INPUT SHAFT SEAL KIT, (includes items 51 thru 53) | |

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**Figure 9-38 Steering Gear (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

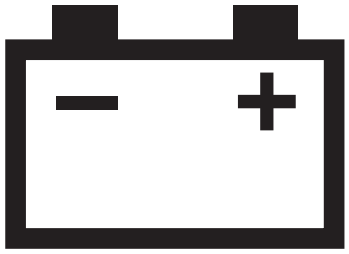
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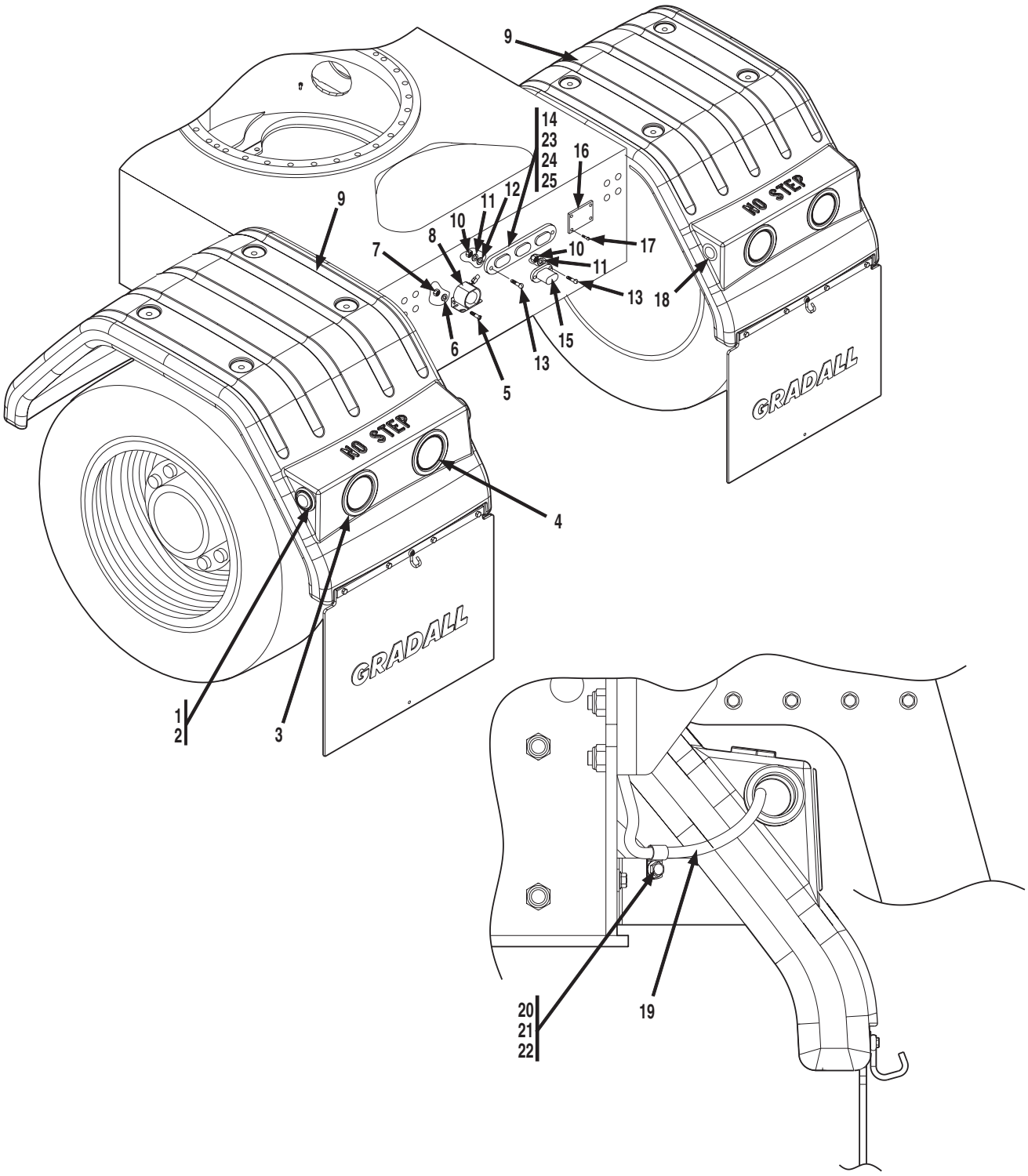
# SECTION 10
# ELECTRICAL



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**Figure 10-1 Tail & Marker Lights**



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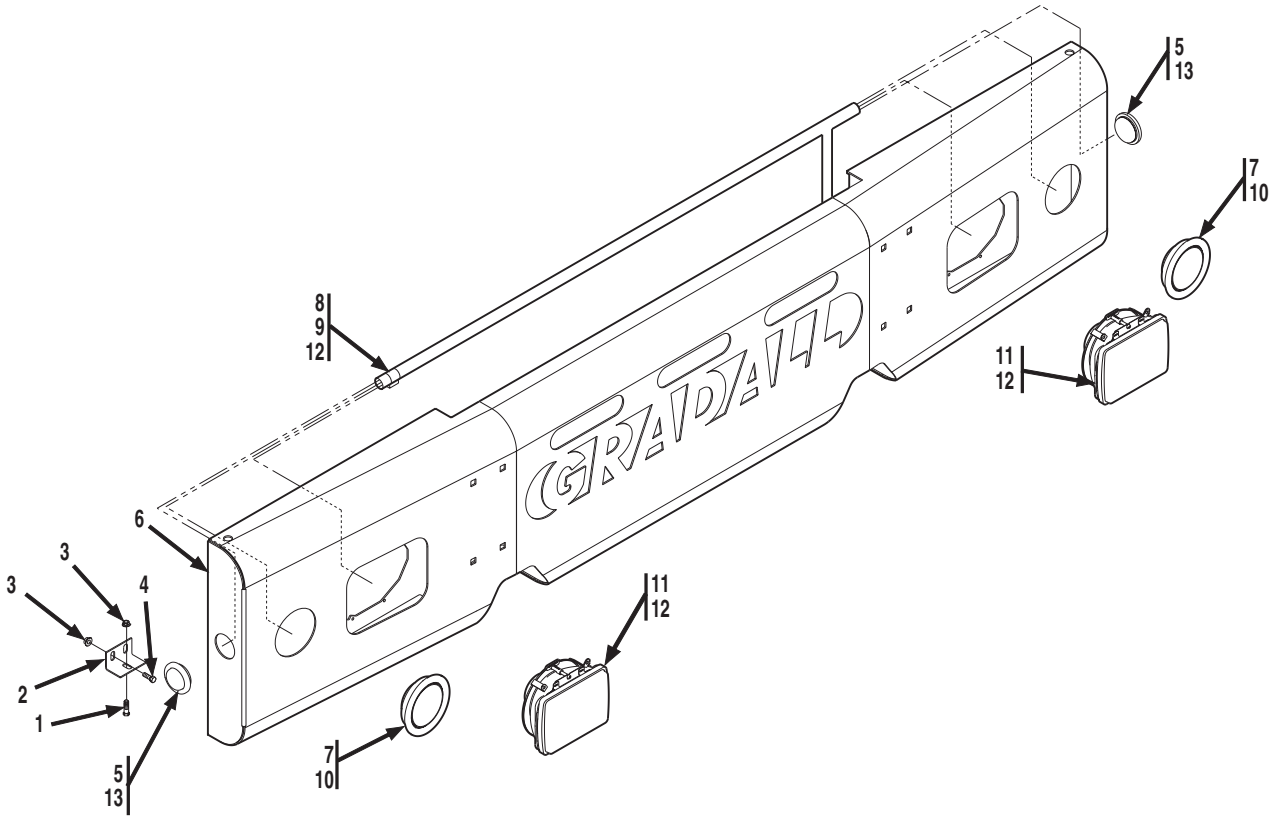
**Figure 10-1 Tail & Marker Lights**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 77383935 | 1 | RED CLEARANCE LIGHT | |
| 2 | 80483117 | 1 | LIGHT GROMMET | |
| 3 | 80483115 | 1 | STOP, TAIL & TURN LIGHT | |
| 4 | 80483116 | 1 | BACK-UP LIGHT | |
| 5 | 88201005 | 2 | HEX HD CAPSCREW, 1/4-20X1, GR5 | |
| 6 | 88561002 | 2 | FLAT WASHER, 1/4 | |
| 7 | 77143013 | 2 | WHIZ-LOK NUT, 1/4-20 | |
| 8 | 91403420 | 1 | TRAVEL ALARM | |
| 9 | | Ref | REAR FENDER, (see Figure 1-6 for details) | |
| 10 | 88501610 | 2 | HEX NUT, #8-32 | |
| 11 | 88551006 | 2 | LOCKWASHER, #6 | |
| 12 | 88561104 | 2 | FLAT WASHER, #8 | |
| 13 | 88301077 | 2 | ROUND HD MACHINE SCREW, #8-32X1-1/4 | |
| 14 | 80683251 | 1 | REAR ID LIGHT | |
| 15 | 80683226 | 1 | LICENSE PLATE LIGHT | |
| 16 | 77023029 | 1 | SERIAL PLATE | |
| 17 | 88341012 | 4 | DRIVE SCREW, #4X5/16 | |
| 18 | 80383374 | 1 | RUBBER GROMMET | |
| 19 | 80483114 | 1 | TAIL LIGHT HARNESS | |
| 20 | 77143015 | 1 | WHIZ-LOK NUT, 3/8-16 | |
| 21 | 85841094 | 1 | SUPPORT CLAMP | |
| 22 | 80303094 | 1 | WHIZ-LOK SCREW, 3/8-16X3/4 | |
| 23 | 80963058 | 1 | WEATHER PACK SHROUD, (2-wire) | |
| 24 | 80963065 | 2 | WIRE SEAL, (18 ga.) | |
| 25 | 80963069 | 2 | MALE PIN | |
| | | | **QUANTITIES SHOWN ARE FOR ONE TAIL LIGHT ASSY ONLY.** | |

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**Figure 10-2 Head & Marker Lights**



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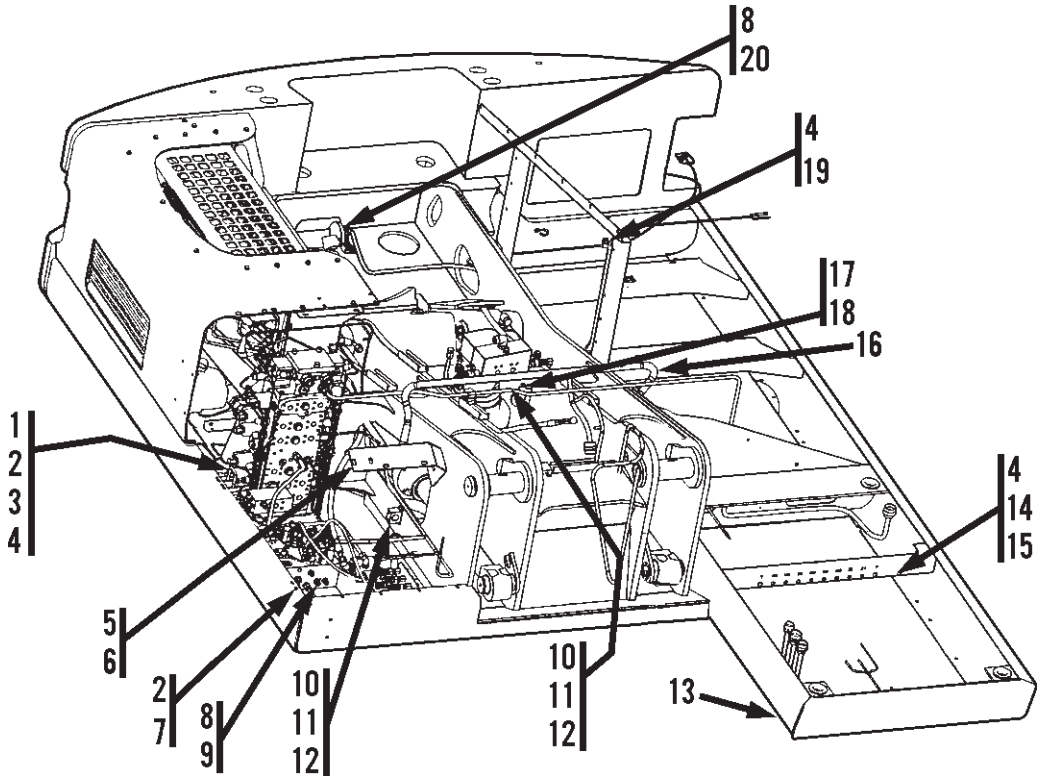
**Figure 10-2 Head & Marker Lights**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 88411062 | 2 | CARRIAGE BOLT,3/8-16X1 | |
| 2 | 80481049 | 2 | BUMPER ANGLE SUPPORT | |
| 3 | 88521206 | 6 | HEX LOCKNUT, 3/8-16 | |
| 4 | 80973025 | 4 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 5 | 77383936 | 2 | CLEARANCE LIGHT | |
| 6 | 80486009 | 1 | FRONT BUMPER | |
| 7 | 80483135 | 2 | GROMMET | |
| 8 | 88561002 | 2 | FLAT WASHER, 1/4 | |
| 9 | 85841094 | 2 | CLAMP, 9/16 | |
| 10 | 80483071 | 2 | HEADLIGHT | |
| 11 | 77383717 | 2 | HEADLAMP | |
| 12 | 88321047 | 10 | SELF TAPPING SCREW, 1/4-20X1/2 | |
| 13 | 77383952 | 2 | CLEARANCE LIGHT MOUNT | |

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**Figure 10-3 Miscellaneous Electrical Components**



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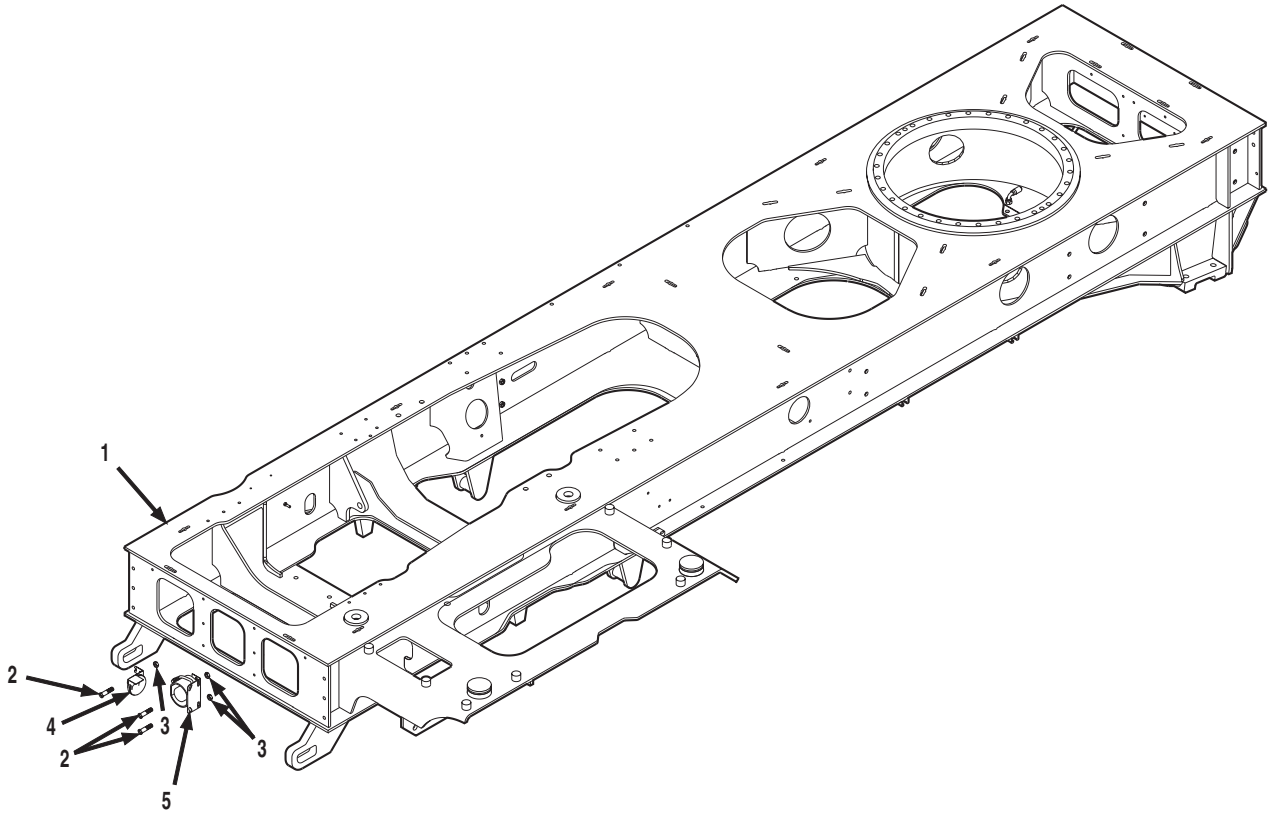
**Figure 10-3 Miscellaneous Electrical Components**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80371194 | 1 | LATCH SUPPORT | |
| 2 | 91363018 | 4 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 3 | 83663190 | 1 | U-BOLT, 3/8-16 | |
| 4 | 77143015 | 11 | WHIZ-LOK NUT, 3/8-16 | |
| 5 | 80371143 | 1 | COVER SUPPORT | |
| 6 | 80223034 | 2 | WHIZ-LOK SCREW, 1/2-13X3/4 | |
| 7 | 80371193 | 1 | STRUT BRACKET | |
| 8 | 80303094 | 8 | WHIZ-LOK SCREW, 3/8-16X3/4 | |
| 9 | | Ref | VALVE TRAY ASSY, (see Figure 9-12 for details) | |
| 10 | 77133073 | 4 | CLAMP | |
| 11 | 77133052 | 2 | COVER PLATE | |
| 12 | 88201007 | 4 | HEX HD CAPSCREW, 1/4-20X1-1/2, GR5 | |
| 13 | 80346002 | 1 | UPPER FRAME WELDMENT | |
| 14 | 24601710 | 1 | SUPPORT CLAMP | |
| 15 | 80973025 | 1 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 16 | 80463018 | 1 | UPPER HARNESS | |
| 17 | 77143003 | 1 | WHIZ-LOK SCREW, 5/16-18X5/8 | |
| 18 | 77143006 | 1 | WHIZ-LOK NUT, 5/16-18 | |
| 19 | 85941018 | 3 | SUPPORT CLAMP | |
| 20 | 91143357 | 1 | HORN | |

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**Figure 10-4 Horn & Miscellaneous**



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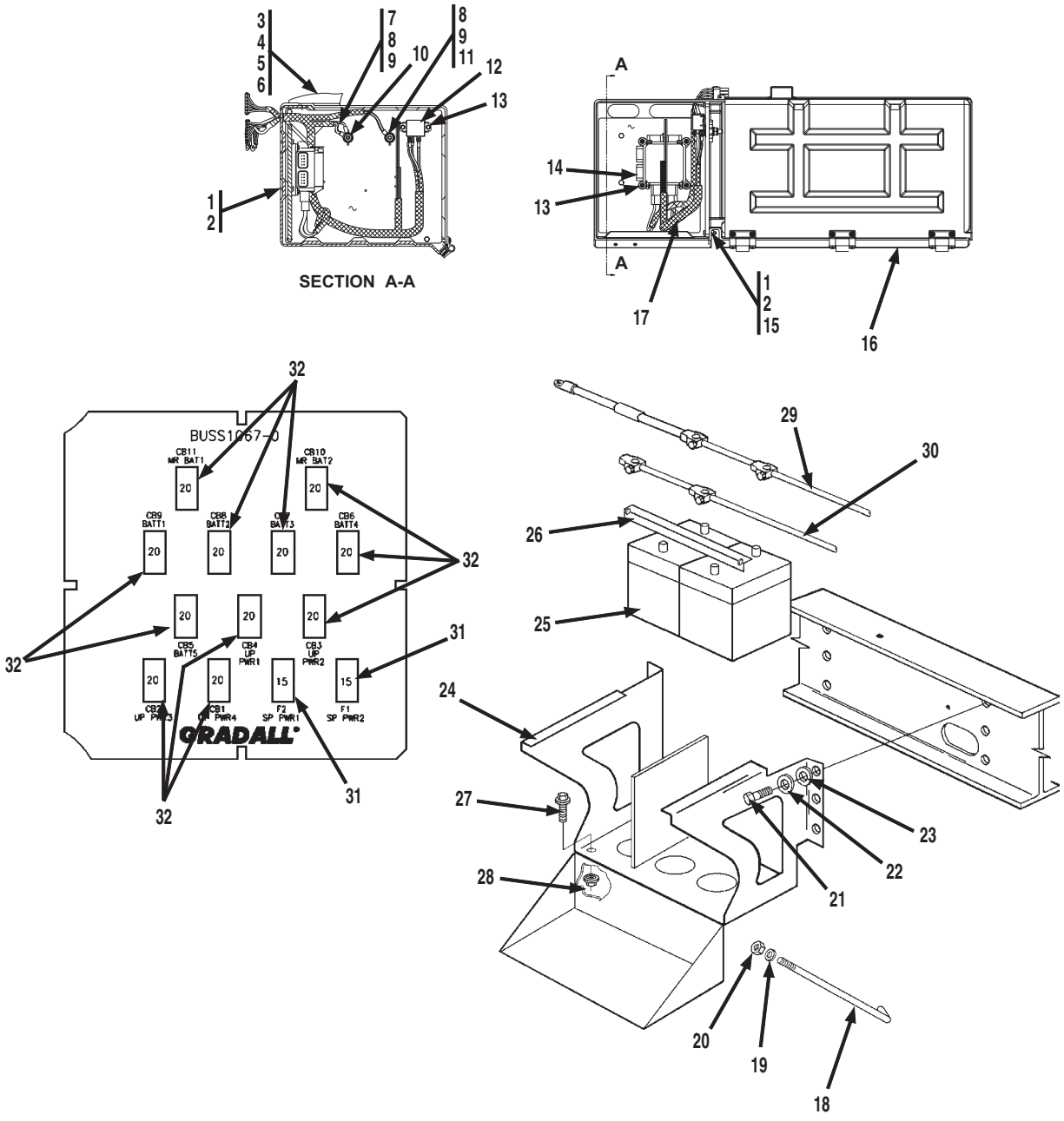
**Figure 10-4 Horn & Miscellaneous**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | | Ref | FRAME WELDMENT, (see Figure 1-1 for details) | |
| 2 | 77143004 | 3 | WHIZ-LOK SCREW, 5/16-18X1 1/4 | |
| 3 | 77143006 | 3 | WHIZ-LOK NUT, 5/16-18 | |
| 4 | 91143357 | 1 | HORN | |
| 5 | 91403420 | 1 | BACK-UP ALARM | |

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**Figure 10-5 Battery Box, Batteries & Cables**



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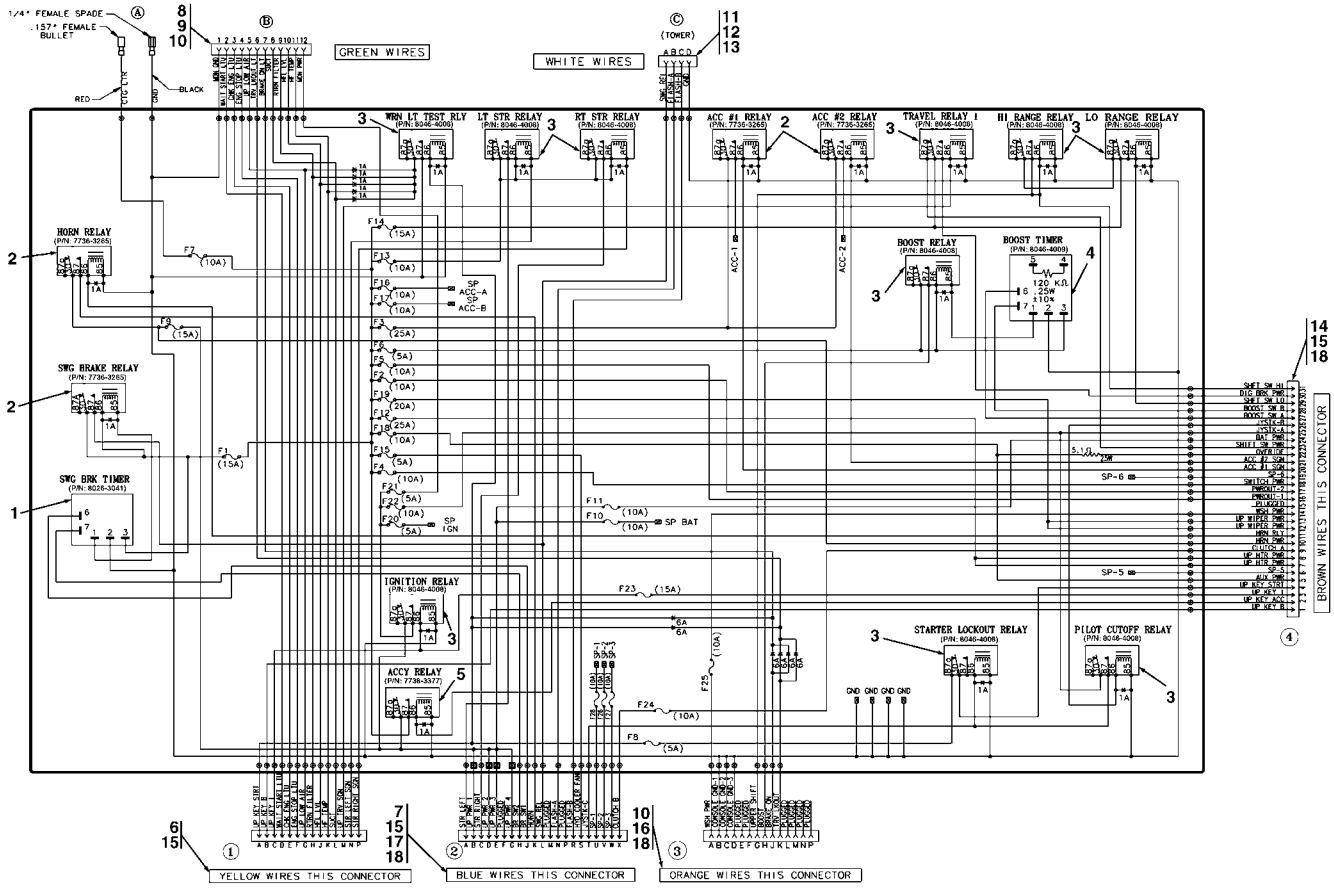
**Figure 10-5 Battery Box, Batteries & Cables**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 88201005 | 7 | HEX HD CAPSCREW, 1/4-20X1, GR5 | |
| 2 | 88521304 | 7 | HEX LOCKNUT, 1/4-20 | |
| 3 | 80383234 | 1 | DRAW LATCH | |
| 4 | 88261010 | 6 | SOCKET BUTTON HD CAPSCREW, #10-24X3/4 | |
| 5 | 88521605 | 6 | HEX LOCKNUT, 1/4-20 | |
| 6 | 88561105 | 6 | FLAT WASHER, #10 | |
| 7 | 80483061 | 1 | RED FEED THRU STUD | |
| 8 | 88521306 | 4 | HEX LOCKNUT, 3/8-16 | |
| 9 | 88561109 | 2 | FLAT WASHER, 3/8 | |
| 10 | 88321030 | 4 | SELF TAPPING SCREW, #10-24X1/2 | |
| 11 | 80483062 | 1 | BLACK FEED THRU STUD | |
| 12 | 77383377 | 1 | RELAY | |
| 13 | 80483093 | 6 | SELF TAPPING SCREW | |
| 14 | 80483066 | 1 | BUSSMANN ELECTRICAL BOX | |
| 15 | 88561107 | 6 | FLAT WASHER, 1/4 | |
| 16 | 80483060 | 1 | BATTERY BOX, (includes items 1, 2, 3 thru 6 & 15) | |
| 17 | 80483078 | 1 | BATTERY BOX HARNESS | |
| 18 | 80381114 | 2 | HOLD DOWN STUD | |
| 19 | 88561108 | 2 | FLAT WASHER, 5/16 | |
| 20 | 88521205 | 2 | HEX LOCKNUT, 5/16-18 | |
| 21 | 88201096 | 6 | HEX HD CAPSCREW, 5/8-11X1-3/4, GR5 | |
| 22 | 88551015 | 6 | LOCKWASHER, 5/8 | |
| 23 | 88561113 | 6 | FLAT WASHER, 5/8 | |
| 24 | 80381450 | 1 | BATTERY BOX MOUNT | |
| 25 | 80973021 | 1 | BATTERY | |
| 26 | 86841069 | 1 | HOLD DOWN ANGLE | |
| 27 | 80973096 | 8 | WHIZ-LOK SCREW, 3/8-16X1-1/2 | |
| 28 | 88521206 | 5 | HEX LOCKNUT, 3/8-16 | |
| 29 | 80483090 | 1 | POSITIVE BATTERY CABLE | |
| 30 | 80483091 | 1 | NEGATIVE BATTERY CABLE | |
| 31 | 80464004 | 2 | FUSE, 15A | |
| 32 | 80464006 | 11 | CIRCUIT BREAKER, 20A | |

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**Figure 10-6 Cab Console, Circuit Board, Upperstructure**




| FUSE | AMP | DESIGNATION |
|---|---|---|
| F1 | 15A | SWING BRAKE POWER |
| F2 | 10A | POWER OUTLET #2 |
| F3 | 25A | ACCESSORY RELAY |
| F4 | 10A | SWITCH/DOME LIGHT PWR |
| F5 | 10A | POWER OUTLET #1 |
| F6 | 5A | BOOST POWER |
| F7 | 10A | CIGARETTE LIGHTER |
| F8 | 5A | STARTER RELAY POWER |
| F9 | 15A | HORN POWER |
| F10 | 10A | SPARE BATTERY POWER |
| F11 | 10A | BATTERY POWER |
| F12 | 25A | HEATING POWER |
| F13 | 10A | STEERING POWER |
| F14 | 15A | SHIFT/BRAKE POWER |
| F15 | 5A | HYD COOLER FAN POWER |
| F16 | 10A | SPARE ACCY - A POWER |
| F17 | 10A | SPARE ACCY - B POWER |
| F18 | 10A | TILT/AUXILIARY POWER |
| F19 | 20A | WIPER POWER |
| F20 | 5A | SPARE IGNITION POWER |
| F21 | 5A | MONITOR POWER |
| F22 | 10A | JOYSTICK PILOT POWER |
| F23 | 15A | KEY IGNITION POWER |
| F24 | 10A | AC CLUTCH/VALVE POWER |
| F25 | 10A | WASHER POWER |
| F26 | 10A | SP-2 (SPARE 2) |
| F27 | 10A | SP-3 (SPARE 3) |
| F28 | 10A | SP-1 (SPARE 1) |

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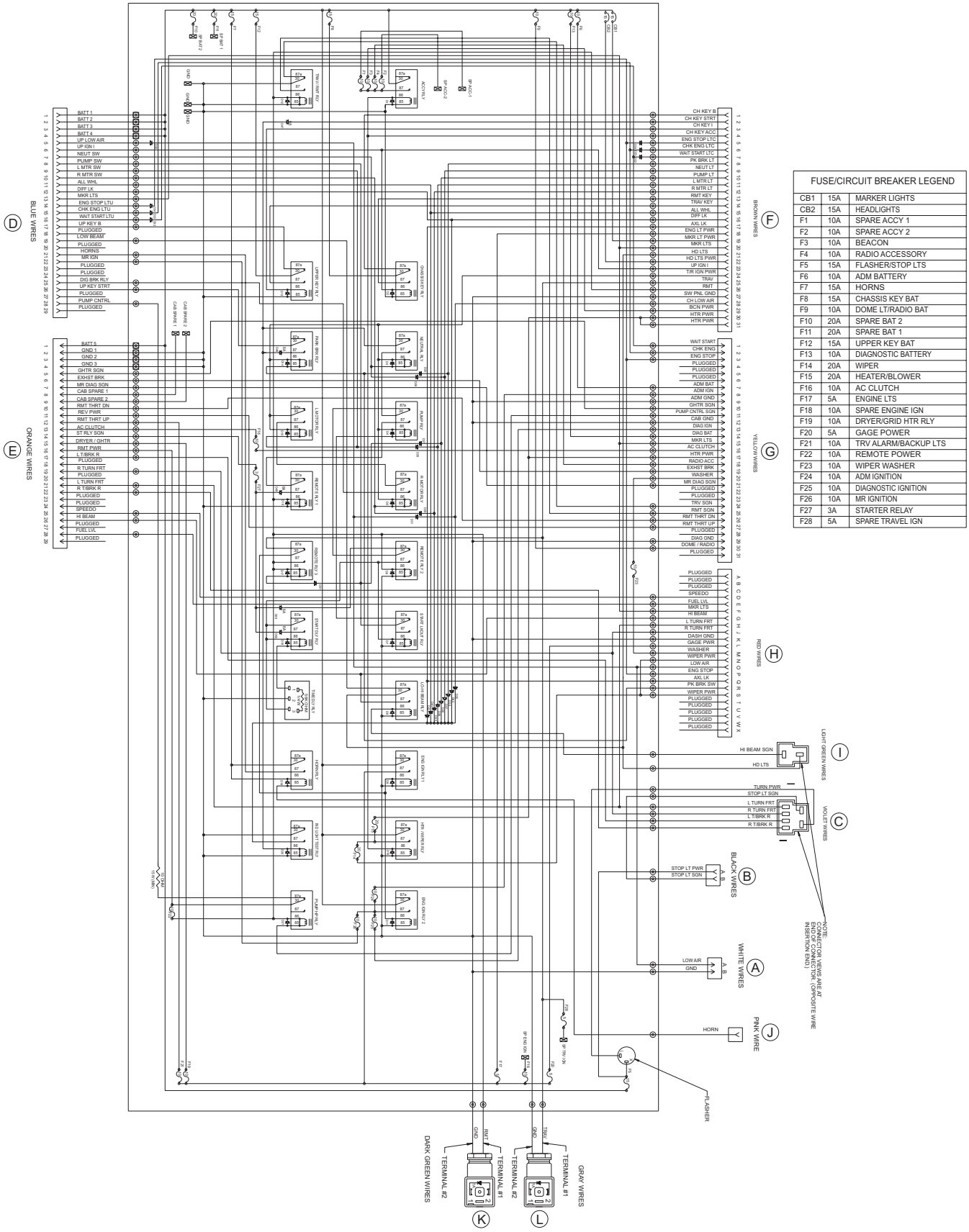
**Figure 10-6 Cab Console, Circuit Board, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80463010 | | CIRCUIT BOARD | |
| 1 | 80263041 | 1 | RELAY | |
| 2 | 77363265 | 4 | RELAY | |
| 3 | 80464008 | 10 | RELAY | |
| 4 | 80464009 | 1 | RELAY | |
| 5 | 77383377 | 1 | RELAY | |
| 6 | 77363225 | 1 | CONNECTOR | |
| 7 | 86984562 | 1 | CONNECTOR | |
| 8 | 91504046 | 1 | PLUG CONNECTOR | |
| 9 | 80604016 | 1 | WEDGE LOCK | |
| 10 | 77363229 | AR | SOCKET CONTACT, #16 | |
| 11 | 80963061 | 1 | TOWER | |
| 12 | 80963068 | 1 | FEMALE PIN TERMINAL | |
| 13 | 80963066 | AR | CABLE SEAL | |
| 14 | 86984560 | 1 | CONNECTOR | |
| 15 | 77363228 | AR | PIN CONTACT, #16 | |
| 16 | 80204288 | 1 | CONNECTOR | |
| 17 | 77363345 | AR | 12 AWG PIN | |
| 18 | 77363230 | AR | SEALING PLUG | |

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## Figure 10-7 Operators Cab, Circuit Board, Undercarriage



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**Figure 10-7 Operators Cab, Circuit Board, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80483172 | 1 | PRINTED CIRCUIT BOARD | |
| A | 80963058 | | SHROUD | |
| | 80963069 | | MALE PIN TERMINAL | |
| | 80963066 | | CABLE SEAL, (gray) | |
| B | 80963057 | | WEATHER PACK TOWER | |
| | 80963068 | | FEMALE PIN TERMINAL | |
| | 80963066 | | CABLE SEAL, (gray) | |
| C | 86984553 | | CONNECTOR, (6-wire) | |
| | 86984554 | | TERMINAL | |
| D | 80484074 | | CONNECTOR | |
| | 77363229 | | SOCKET | |
| | 77363347 | | SOCKET | |
| | 77363349 | | SEAL PLUG | |
| E | 80484073 | | CONNECTOR | |
| | 77363228 | | PIN CONTACT #16 | |
| | 77363345 | | 12 AWG PIN | |
| E | 83481286 | | PANEL NUT | |
| | 83481285 | | LOCKWASHER | |
| | 77363349 | | SEALING PLUG | |
| F | | | CONNECTOR | |
| | | | SOCKET | |
| G | | | CONNECTOR | |
| | | | SOCKET | |
| H | | | CONNECTOR | |
| | | | SOCKET | |
| I | 86984555 | | CONNECTOR, (2-wire) | |
| | 86984556 | | TERMINAL | |
| K | 77383554 | | CONNECTOR | |
| | | | DIODE | |
| L | 77383554 | | CONNECTOR | |
| | | | DIODE | |

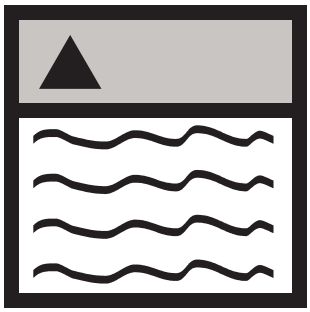
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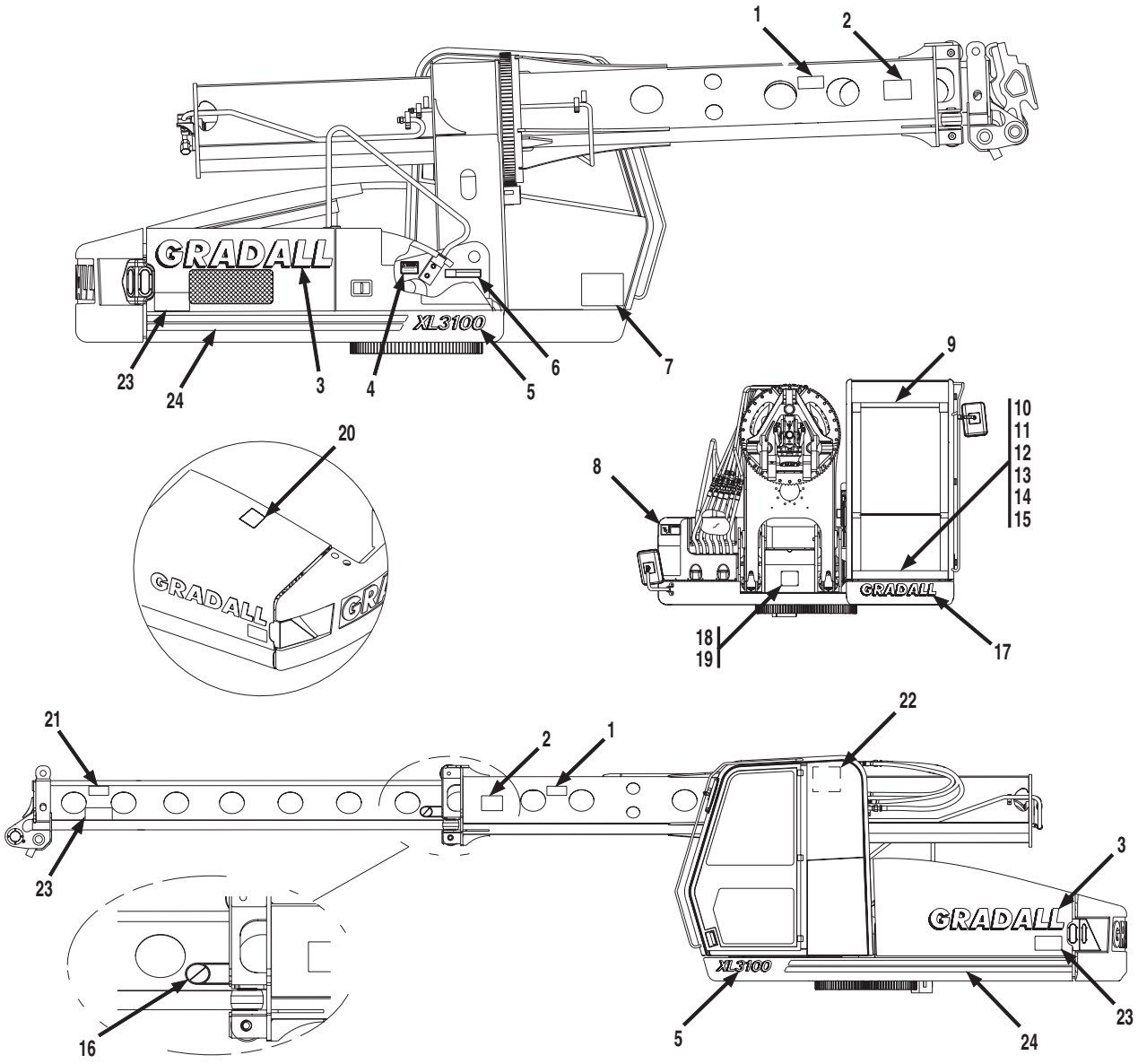
# SECTION 11
# DECALS



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**Figure 11-1 Decals, Upperstructure**



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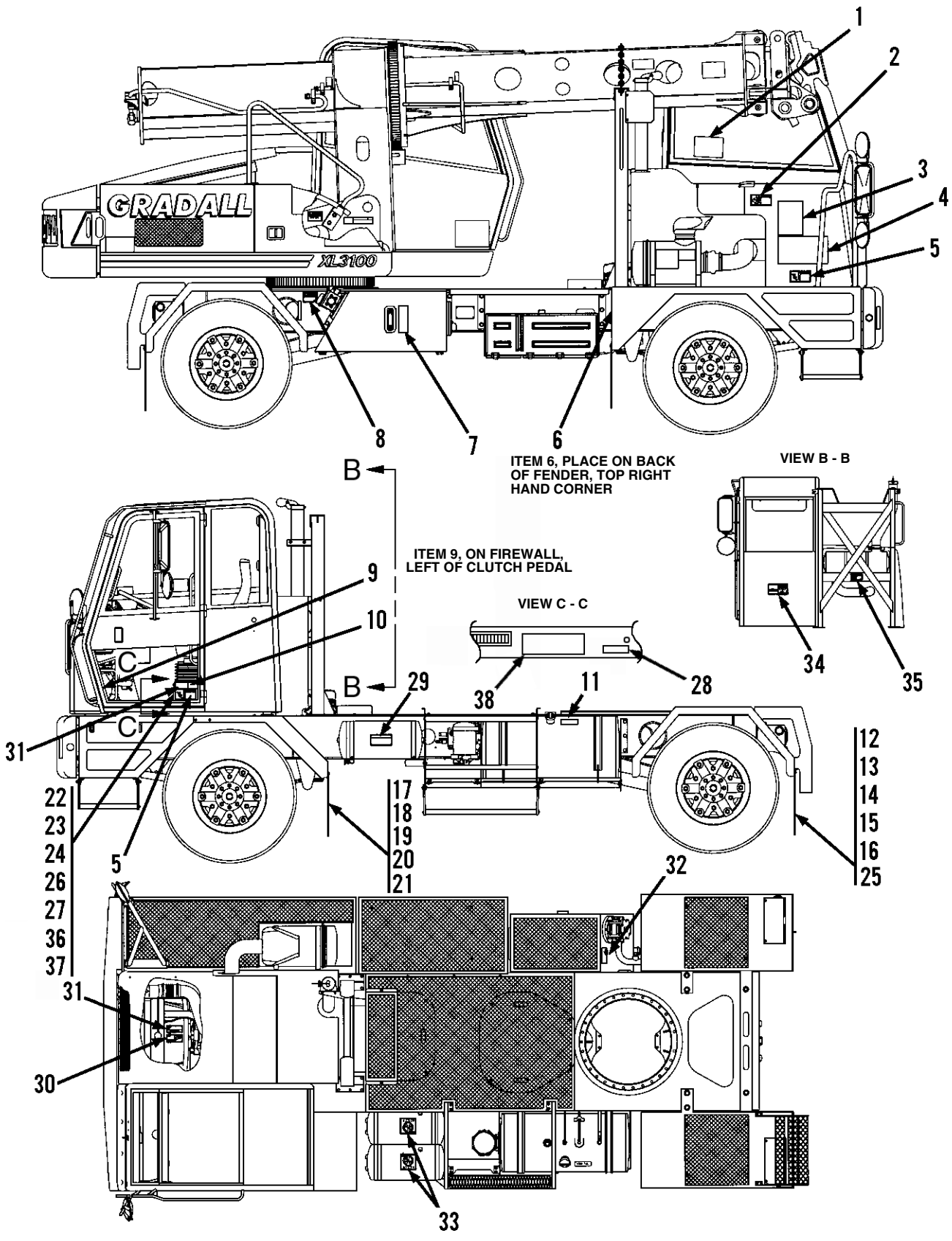
**Figure 11-1 Decals, Upperstructure**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80603037 | 2 | PINCH POINT WARNING DECAL | |
| 2 | 80601011 | 2 | ELECTRICAL LINE PREVENTION DECAL | |
| 3 | 80373065 | 2 | LARGE GRADALL DECAL | |
| 4 | 80903012 | 1 | HYDRAULIC PRESSURE WARNING DECAL | |
| 5 | 80303053 | 2 | MODEL XL3100 DECAL | |
| 6 | 91083492 | 1 | OIL LEAK WARNING DECAL | |
| 7 | 80303063 | 1 | LUBE & MAINTENANCE DECAL | |
| 8 | 80603036 | 1 | CLIMBING WARNING DECAL | |
| 9 | 80373066 | 2 | REFLECTIVE TAPE | |
| 10 | 31014001 | 1 | PARTS MANUAL | |
| 11 | 31014002 | 1 | SERVICE MANUAL | |
| 12 | 31014003 | 1 | OWNER/OPERATOR MANUAL | |
| 14 | 80603007 | 1 | EMI SAFETY MANUAL | |
| 15 | 24604161 | 1 | SAFETY MANUAL | |
| 16 | 80303096 | 1 | DECAL | |
| 17 | 80373061 | 1 | SMALL GRADALL DECAL | |
| 18 | 77333047 | 1 | SERIAL PLATE | |
| 19 | 88341012 | 4 | DRIVE SCREW, #4X5/16 | |
| 20 | 80373077 | 1 | NO STEP DECAL | |
| 21 | 80903017 | 2 | RIDERS WARNING DECAL | |
| 22 | 80363135 | 1 | LIFT CHART, (4X2) | |
| | 80363136 | 1 | LIFT CHART, (4X4) | |
| 23 | 80603039 | 4 | SWING AREA WARNING DECAL | |
| 24 | 80373063 | 2 | SIDE STRIPE DECAL | |

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**Figure 11-2 Decals, Undercarriage**



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**Figure 11-2 Decals, Undercarriage**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80383260 | 1 | REMOTE CONTROL DECAL | |
| 2 | 80603038 | 1 | MOVING PARTS WARNING DECAL | |
| 3 | 80383396 | 1 | LUBE/TORQUE CHART | |
| 4 | 80383397 | 1 | CARRIER LUBE CHART | |
| 5 | 80603036 | 3 | CLIMBING WARNING DECAL | |
| 6 | 77363358 | 1 | BATTERY WARNING DECAL | |
| 7 | 80303065 | 1 | RESERVOIR FILL DECAL | |
| 8 | 80903012 | 1 | HYDRAULIC PRESSURE WARNING DECAL | |
| 9 | 77333027 | 1 | MADE IN USA DECAL | |
| 10 | 77383675 | 1 | DIFFERENTIAL LOCK DECAL | |
| 11 | 77023008 | 1 | FUEL DECAL | |
| 12 | 80383355 | 2 | MUDFLAP, (4X2 only) | |
| | 80383556 | 2 | MUDFLAP, (4X4 only) | |
| 13 | 88201027 | 4 | HEX HD CAPSCREW, 5/16-18X2-3/4, GR5, (lubricate & torque to 10-13 lb-ft) | |
| 14 | 88201025 | 4 | HEX HD CAPSCREW, 5/16-18X2-1/4, GR5, (lubricate & torque to 10-13 lb-ft) | |
| 15 | 88561003 | 8 | FLAT WASHER, 5/16 | |
| 16 | 88521205 | 8 | HEX LOCKNUT, 5/16-18 | |
| 17 | 77383307 | 2 | MUDFLAP | |
| 18 | 83481009 | 2 | BACKING BAR | |
| 19 | 88201006 | 8 | HEX HD CAPSCREW, 1/4-20X1-1/4, GR5 | |
| 20 | 88561002 | 8 | FLAT WASHER, 1/4 | |
| 21 | 88521204 | 8 | HEX LOCKNUT, 1/4-20 | |
| 22 | 86681621 | 1 | TRUCK SAFETY MANUAL | |
| 23 | 31014003 | 1 | OWNER/OPERATOR MANUAL | |
| 24 | 80363059 | 1 | DRAWER | |
| 25 | 80381433 | 2 | BACKING BAR | |
| 26 | 80483142 | 1 | ENGINE MANUAL | |
| 27 | 80363060 | 1 | LATCH | |
| 28 | 80363155 | 1 | MANUAL DECAL | |
| 29 | 77393007 | 1 | WELDING WARNING DECAL | |
| 30 | 80603026 | 1 | RADIATOR CAP CAUTION DECAL | |
| 31 | 80483160 | 1 | ATTENTION DECAL | |
| 32 | 91143288 | 1 | HYDRAULIC OIL DECAL | |
| 33 | 80373077 | 2 | NO STEP DECAL | |
| 34 | 80603039 | 1 | SWING AREA WARNING DECAL | |
| 35 | 91143358 | 1 | BATTERY WARNING DECAL | |
| 36 | 80385173 | 1 | FIRST AID KIT, (includes items 37 & 38) | |
| 37 | 77383890 | 1 | FIRST AID KIT | |
| 38 | X4103110 | 1 | FIRST AID DECAL | |

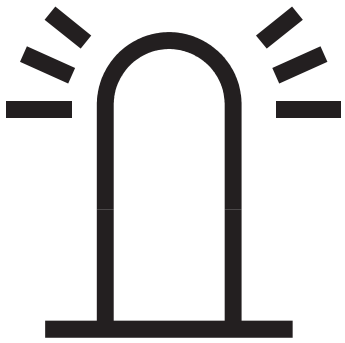
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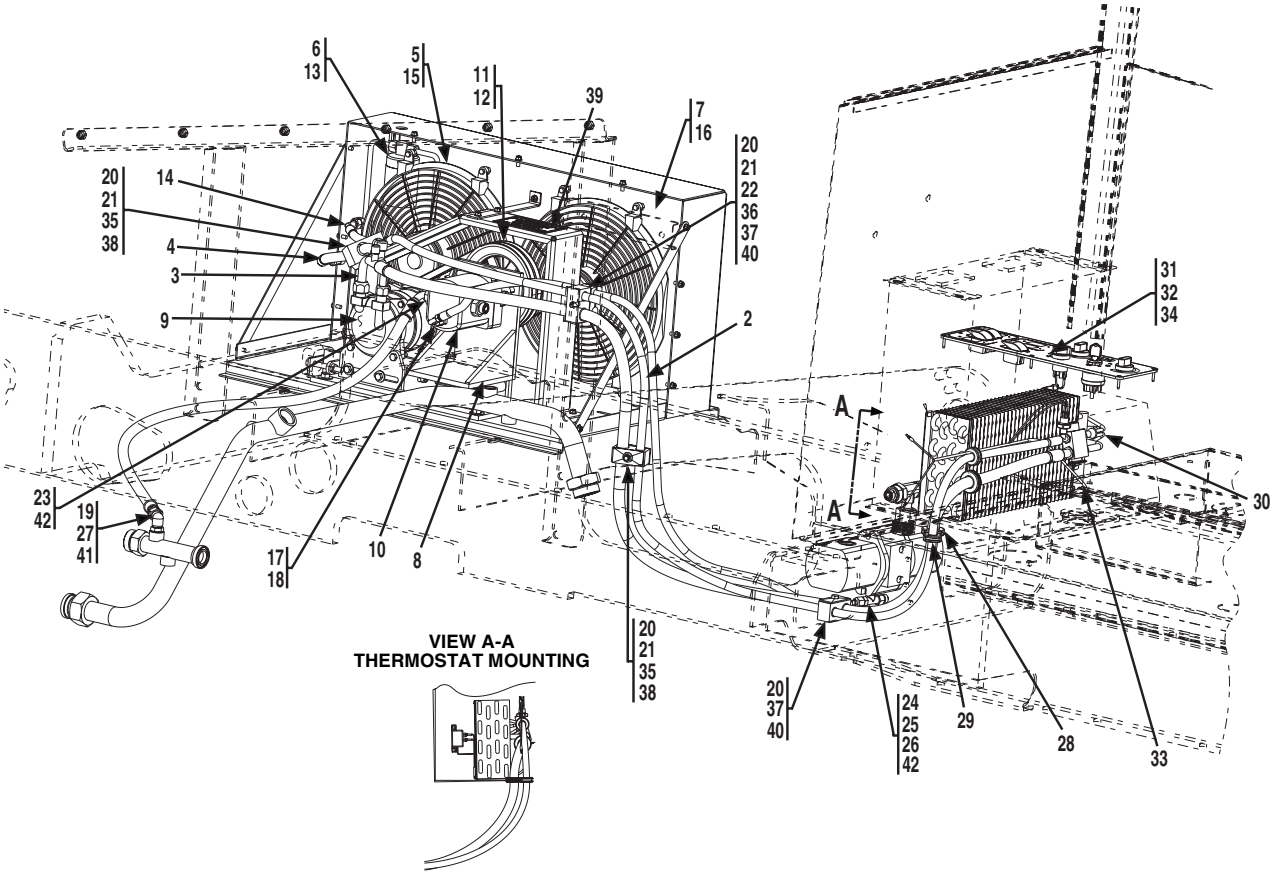
# SECTION 12
# OPTIONS

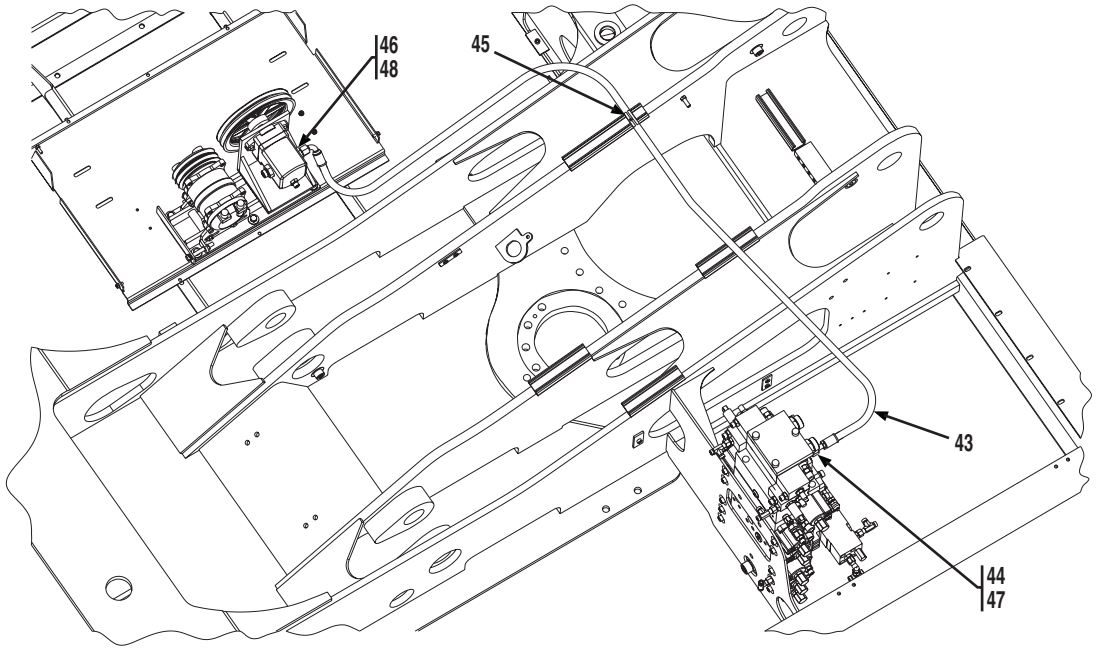


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**Figure 12-1 Upperstructure Air Conditioning Installation**



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**Figure 12-1 Upperstructure Air Conditioning Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80365034 | 1 | UPPER AIR CONDITIONING INSTALLATION, (includes all items) | |
| 1 | 80363141 | 1 | AIR CONDITIONER GENERAL KIT, (includes items 5 thru 16) | |
| 2 | 80363139 | 1 | HOSE ASSY | |
| 3 | 80363140 | 1 | HOSE ASSY | |
| 4 | 80363142 | 1 | HOSE ASSY | |
| 5 | 80363191 | 2 | CONDENSOR FAN PULLER, (14”) | |
| 6 | 80963234 | 1 | RECEIVER/DRIER | |
| 7 | 80363144 | 1 | CONDENSOR COIL | |
| 8 | 80363145 | 1 | MOUNT/DRIVE ASSY | |
| 9 | 80963227 | 1 | COMPRESSOR 2A GRV. | |
| 10 | 80363199 | 1 | HYDRAULIC MOTOR | |
| 11 | 80363190 | 1 | PULLEY, (6.8”) | |
| 12 | 80363189 | 2 | BELT, (2 required for set) | |
| 13 | 80963124 | 1 | RECEIVER/DRIER BRACKET | |
| 14 | 80363099 | 1 | PRESSURE SWITCH | |
| 15 | 80963235 | 8 | FAN MOUNTING TABS | |
| 16 | 80363133 | 1 | CONDENSER ASSY | |
| 17 | 84719314 | 1 | HOSE ASSY | |
| 18 | 80233254 | 1 | STRAIGHT ADAPTER | |
| 19 | 84718717 | 1 | HOSE ASSY | |
| 20 | 83663119 | 4 | STAUFF CLAMP | |
| 21 | 77133137 | 5 | COVER PLATE | |
| 22 | 88201023 | 2 | HEX HD CAPSCREW, 5/16-18X1-3/4, GR5 | |
| 23 | 88662302 | 1 | CONNECTOR, (includes item 42) | |
| 24 | 88662444 | 1 | CONNECTOR, (includes item 42) | |
| 25 | 80983171 | 1 | SPECIAL TEE | |
| 26 | 88662300 | 1 | CONNECTOR, (includes item 42) | |
| 27 | 88662330 | 1 | ELBOW, 90 DEGREES, (includes item 41) | |
| 28 | 86561279 | 2 | GROMMET | |
| 29 | 86961044 | 2 | GROMMET | |
| 30 | 80963089 | 1 | AIR CONDITIONER EVAPORATOR KIT | |
| 31 | 80363157 | 1 | ROCKER SWITCH | |
| 32 | 86661152 | 4” | 16 GA. WIRE | |
| 33 | 80363158 | 1 | AIR CONDITIONER HARNESS | |
| 34 | 86983195 | 2 | WIRE END, 1/4” | |
| 35 | 88201025 | 2 | HEX HD CAPSCREW, 5/16-18X2, GR5 | |
| 36 | 80933123 | 1 | STAUFF CLAMP | |
| 37 | 77133306 | 1 | STACK BOLT | |
| 38 | 77143006 | 2 | WHIZ-LOK NUT, 5/16-18 | |
| 39 | 80373084 | 1 | AIR CONDITIONER DECAL | |
| 40 | 77133390 | 2 | SAFETY CLIP | |
| 41 | 88591205 | 1 | O-RING | |
| 42 | 88591202 | 3 | O-RING | |
| 43 | 84719597 | 1 | HOSE ASSY | |
| 44 | 88662312 | 1 | CONNECTOR, (includes item 105) | |
| 45 | 90207463 | 1 | CUSHION CLAMP | |
| 46 | 88662302 | 1 | CONNECTOR, (includes item 106) | |
| 47 | 88591207 | 1 | O-RING | |
| 48 | 88591202 | 1 | O-RING | |

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**Figure 12-1 Upperstructure Air Conditioning Installation (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80363209 | Ref | A/C HOSE KIT, (includes items 2, 3 & 4) | |

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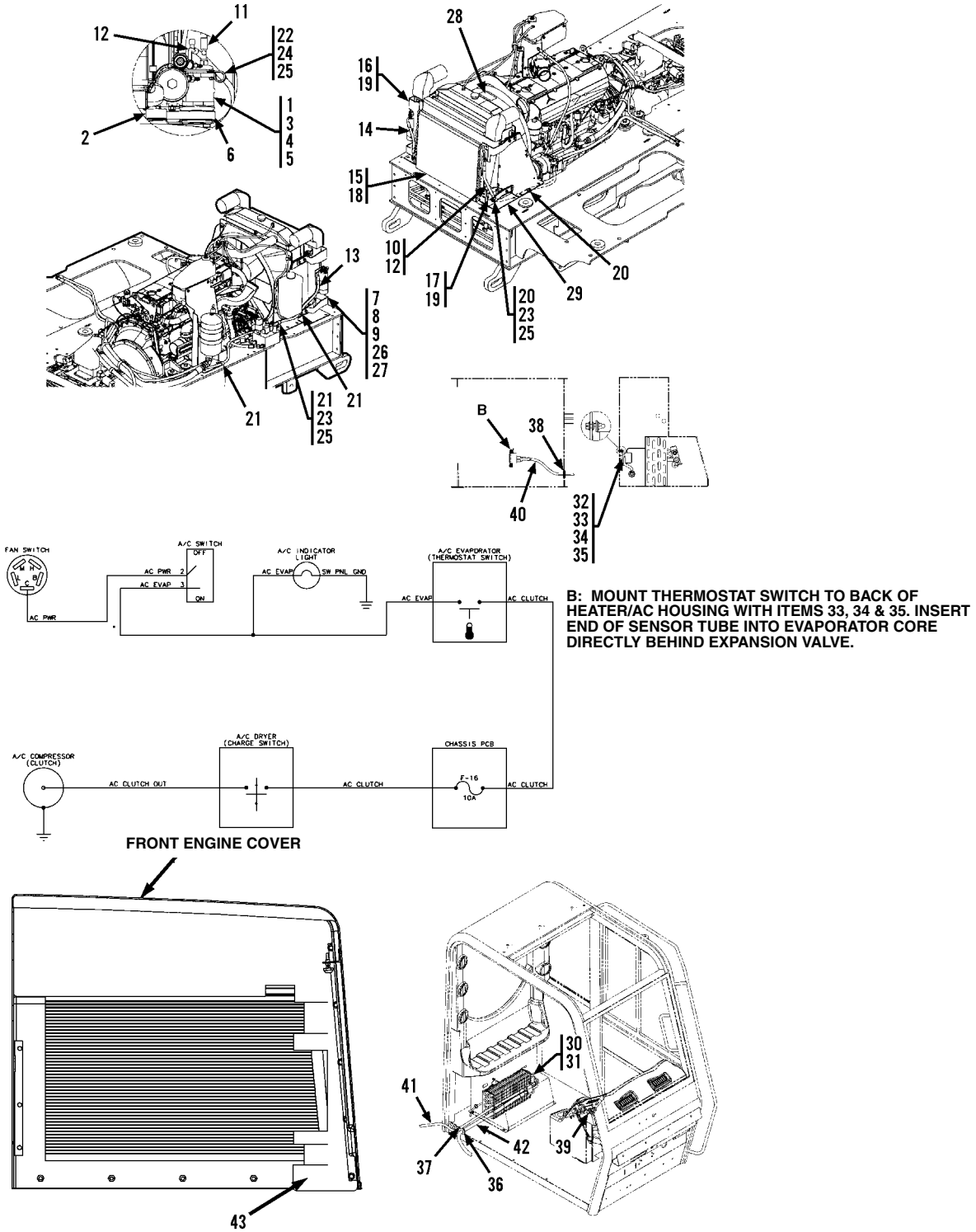
**Figure 12-1 Upperstructure Air Conditioning Installation (Continued)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | | | | |

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**Figure 12-2 '04 EPA Undercarriage Air Conditioning Installation**




**B: MOUNT THERMOSTAT SWITCH TO BACK OF HEATER/AC HOUSING WITH ITEMS 33, 34 & 35. INSERT END OF SENSOR TUBE INTO EVAPORATOR CORE DIRECTLY BEHIND EXPANSION VALVE.**

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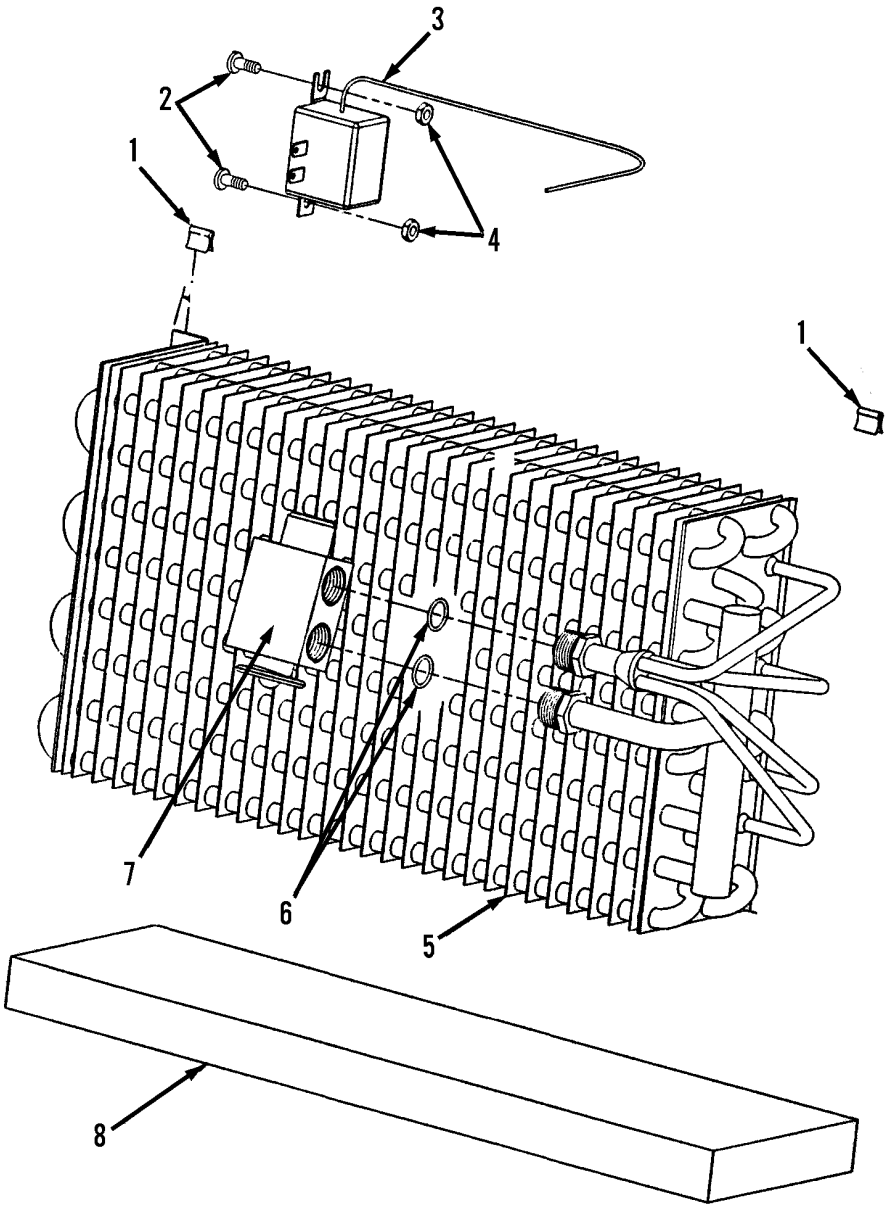
**Figure 12-2 '04 EPA Undercarriage Air Conditioning Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485076 | 1 | CHASSIS AIR CONDITIONER INSTALLATION KIT, (includes all items) | |
| 1 | 80483095 | 1 | A/C GENERAL KIT, (includes items 2 thru 9) | |
| 2 | 80483154 | 1 | A/C IDLER PULLEY | |
| 3 | 80483082 | 1 | FREON COMPRESSOR, (R134a) | |
| 4 | 80483097 | 1 | FREON COMPRESSOR MOUNT | |
| 5 | 80483098 | 1 | COMPRESSOR MOUNTING HARDWARE KIT | |
| 6 | 80483057 | 1 | DRIVE BELT | |
| 7 | 80963234 | 1 | A/C RECIEVER/DRYER | |
| 8 | 80963124 | 1 | A/C RECIEVER/DRYER BRACKET | |
| 9 | 80363099 | 1 | PRESSURE SWITCH | |
| 10 | 80483096 | 1 | HOSE KIT, (includes items 11 thru 14) | |
| 11 | 80483123 | 1 | SUCTION HOSE | |
| 12 | 80483124 | 1 | DISCHARGE HOSE | |
| 13 | 80483125 | 1 | LIQUID HOSE | |
| 14 | 80483126 | 1 | LIQUID HOSE | |
| 15 | 80363092 | 1 | A/C CONDENSOR | |
| 16 | 80381299 | 1 | RH CONDENSOR BRACKET | |
| 17 | 80381309 | 1 | LH CONDENSOR BRACKET | |
| 18 | 77143003 | 7 | WHIZ-LOK SCREW, 5/16-18X5/8 | |
| 19 | 80973025 | 8 | WHIZ-LOK SCREW, 3/8-16X1 | |
| 20 | 85941017 | 2 | SUPPORT CLAMP | |
| 21 | 86521144 | 3 | SUPPORT CLAMP | |
| 22 | 24601710 | 1 | SUPPORT CLAMP | |
| 23 | 91363018 | 2 | WHIZ-LOK SCREW, 5/16-18X1 | |
| 24 | 77143004 | 1 | WHIZ-LOK SCREW, 5/16-18X1-1/4 | |
| 25 | 77143006 | 3 | WHIZ-LOK NUT, 5/16-18 | |
| 26 | 77143016 | 2 | WHIZ-LOK SCREW, #10-24X3/4 | |
| 27 | 77143017 | 2 | WHIZ-LOK NUT, #10-24 | |
| 28 | 80373084 | 1 | A/C CHARGE DECAL | |
| 29 | 80483225 | 1 | RECIRCULATION FLAP | |
| 30 | 80963089 | 1 | A/C EVAPORATOR KIT, (includes items 31 & 32) | |
| 31 | 80963090 | 1 | A/C EVAPORATOR | |
| 32 | 80963092 | 1 | A/C THERMOSTAT SWITCH | |
| 33 | 77143016 | 2 | WHIZ-LOK SCREW, #10-24X3/4 | |
| 34 | 77143017 | 4 | WHIZ-LOK NUT, #10-24 | |
| 35 | 88561105 | 2 | FLAT WASHER, #10 | |
| 36 | 86561279 | 1 | GROMMET | |
| 37 | 86961044 | 1 | GROMMET | |
| 38 | 83641359 | 1 | GROMMET | |
| 39 | 91403304 | 1 | ROCKER SWITCH | |
| 40 | 80483148 | 1 | A/C JUMPER HARNESS | |
| 41 | 80483125 | 1 | LIQUID HOSE | |
| 42 | 80483123 | 1 | SUCTION HOSE | |
| 43 | 80483224 | 1 | RECIRCULATION FLAP | |

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**Figure 12-3 Air Conditioner Evaporator Kit**




**NOTE:**
**1. EXPANSION VALVE TO BE ASSEMBLED TO EVAPORATOR CORE WITH O-RINGS IN PLACE & TUBE NUTS TORQUED.**
**2. OPEN PORTS OF EXPANSION VALVE TO BE SEALED.**
**3. ALL OTHER ITEMS TO BE SHIPPED LOOSE.**

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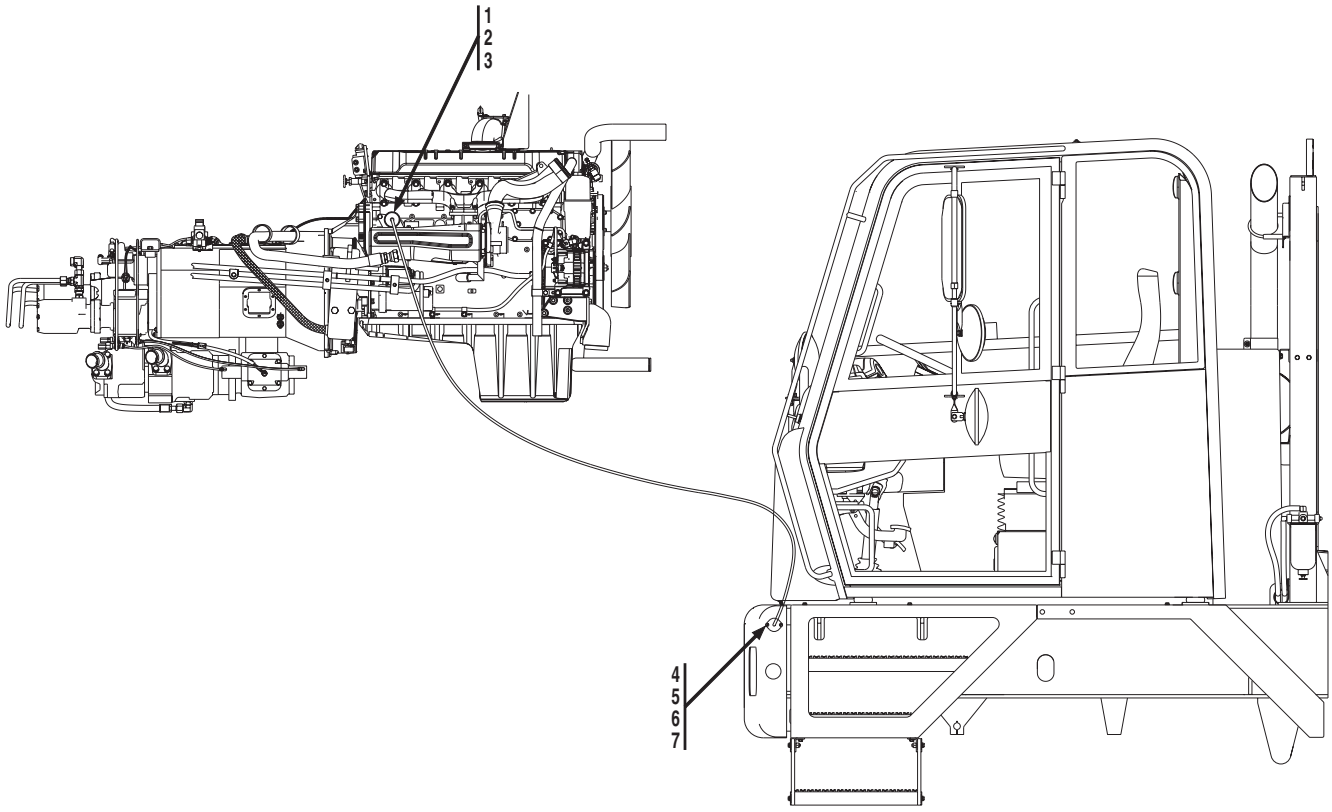
**Figure 12-3 Air Conditioner Evaporator Kit**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| 1 | 80963310 | 2 | SPRING CLIP | |
| 2 | 88301193 | 2 | MACHINE SCREW, #10-32X1/2 | |
| 3 | 80963092 | 1 | THERMOSTATIC SHUT-OFF SWITCH,<br>(preset: 26 degrees F/cut-out - 35 degrees F/cut-in) | |
| 4 | 88501613 | 2 | HEX NUT, #10-32 | |
| 5 | 80963090 | 1 | EVAPORATOR CORE | |
| 6 | 80363103 | 2 | O-RING | |
| 7 | 80963091 | 1 | EXPANSION VALVE | |
| 8 | 80363108 | 1 | DRAIN PAD | |
| 9 | 80363109 | 24” | CORK TAPE, (not shown) | |
| | 80963089 | 1 | AIR CONDITIONER EVAPORATOR KIT, (includes all items) | |

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**Figure 12-4 Block Heater Installation**



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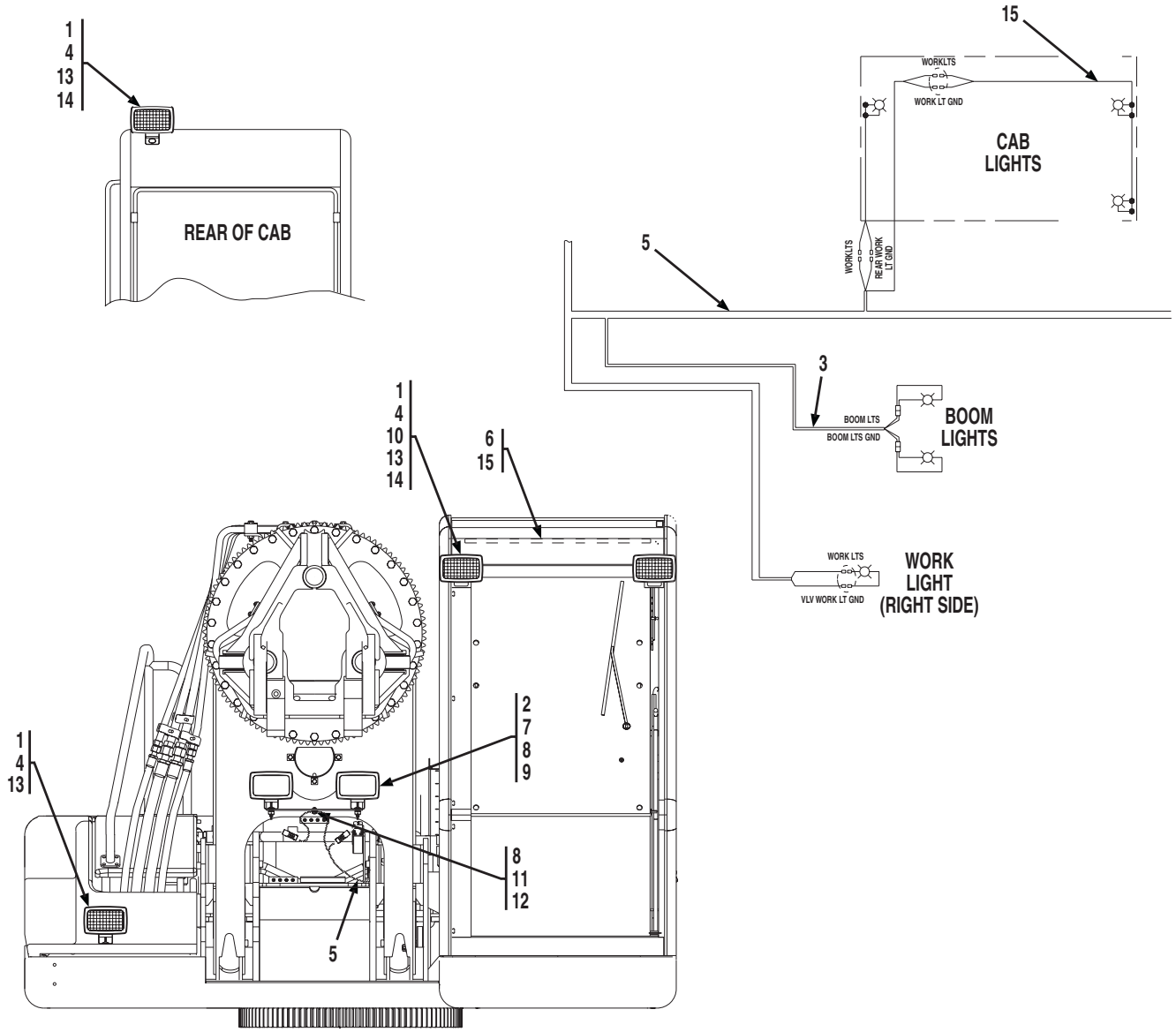
**Figure 12-4 Block Heater Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385139 | 1 | BLOCK HEATER INSTALLATION, (includes all items) | |
| 1 | 80383407 | 1 | BLOCK HEATER | |
| 2 | 83191007 | 1 | HEX HD CAPSCREW, M8X1.25X16, GR 8.8 | |
| 3 | 83191011 | 1 | LOCKWASHER, M8 | |
| 4 | 77383950 | 1 | FLUSH MOUNT KIT | |
| 5 | 88301072 | 2 | ROUND HD MACH SCREW, #8-32X1/2 | |
| 6 | 88551006 | 2 | LOCKWASHER, #6 | |
| 7 | 88501608 | 2 | HEX NUT, #6-32 | |

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**Figure 12-5 Floodlight Installation**



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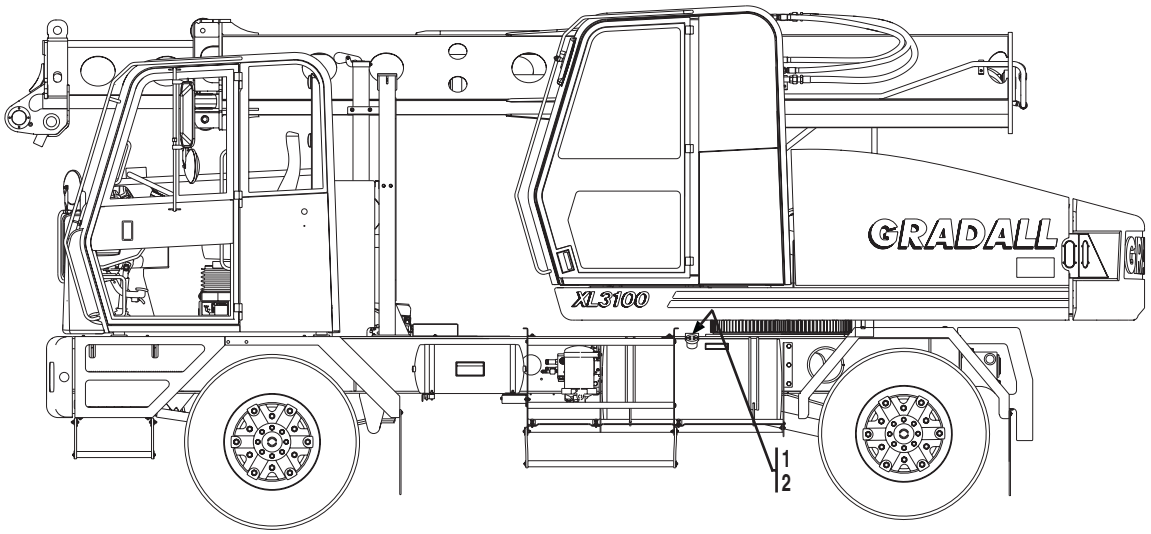
**Figure 12-5 Floodlight Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80465011 | 1 | FLOODLIGHT INSTALLATION, (includes all items except item 5) | |
| 1 | 80963050 | 4 | FLOOD LIGHT | |
| 2 | 80965011 | 2 | BOOM LIGHT ASSY, (includes the following 4 items) | |
| | 80963051 | 1 | UTILITY BOOM LIGHT | |
| | 80963058 | 1 | SHROUD | |
| | 80963066 | 1 | GRAY CABLE SEAL | |
| | 80963069 | 1 | MALE PIN TERMINAL | |
| 3 | 86683122 | 6 | TY-RAP | |
| 4 | 86983193 | 4 | MALE BULLET TERMINAL | |
| 5 | 80463018 | Ref | UPPER HARNESS | |
| 6 | 80363040 | 1 | WIRING DUCT | |
| 7 | 80361029 | 1 | LIGHT BRACKET | |
| 8 | 88201033 | 3 | HEX HD CAPSCREW, 3/8-16X3/4, GR5 | |
| 9 | 88551011 | 2 | LOCKWASHER, 3/8 | |
| 10 | 80363038 | 2 | SPACER | |
| 11 | 77143015 | 1 | WHIZ-LOK NUT, 3/8-16 | |
| 12 | 86621230 | 1 | SUPPORT CLAMP, 11/32 | |
| 13 | 77163105 | 4 | FEMALE BULLET TERMINAL | |
| 14 | 14404173 | AR | SILICONE | |
| 15 | 80363094 | 1 | CAB WORK LIGHT HARNESS | |

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**Figure 12-6 Locking Fuel Cap**



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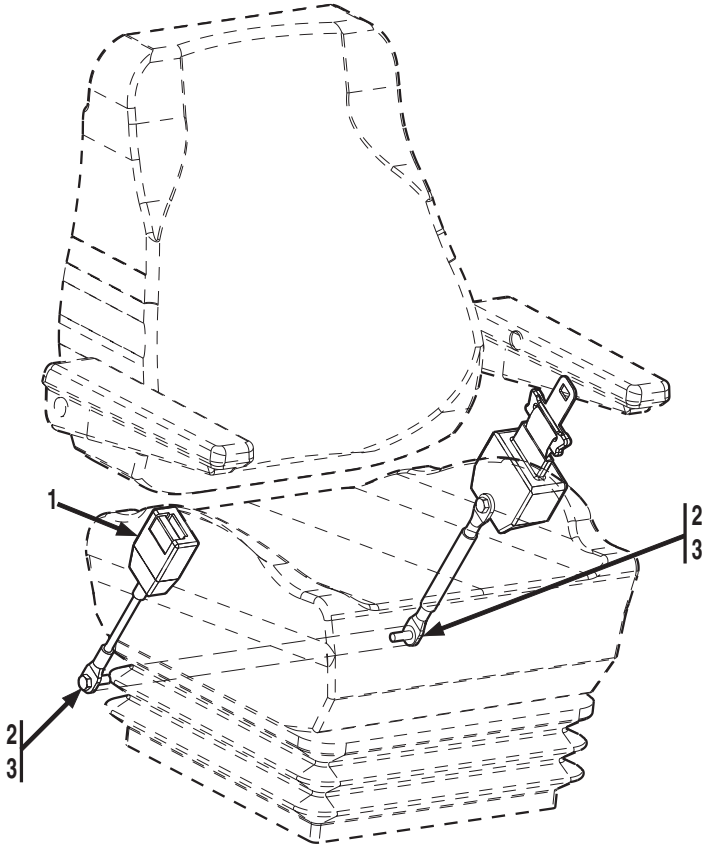
**Figure 12-6 Locking Fuel Cap**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80385057 | 1 | LOCKING FUEL CAP ASSY, (includes all items) | |
| 1 | 84761066 | 1 | PROTECTO SEAL CAP | |
| 2 | 85641094 | 1 | PADLOCK | |

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**Figure 12-7 Seat Belt Installation**



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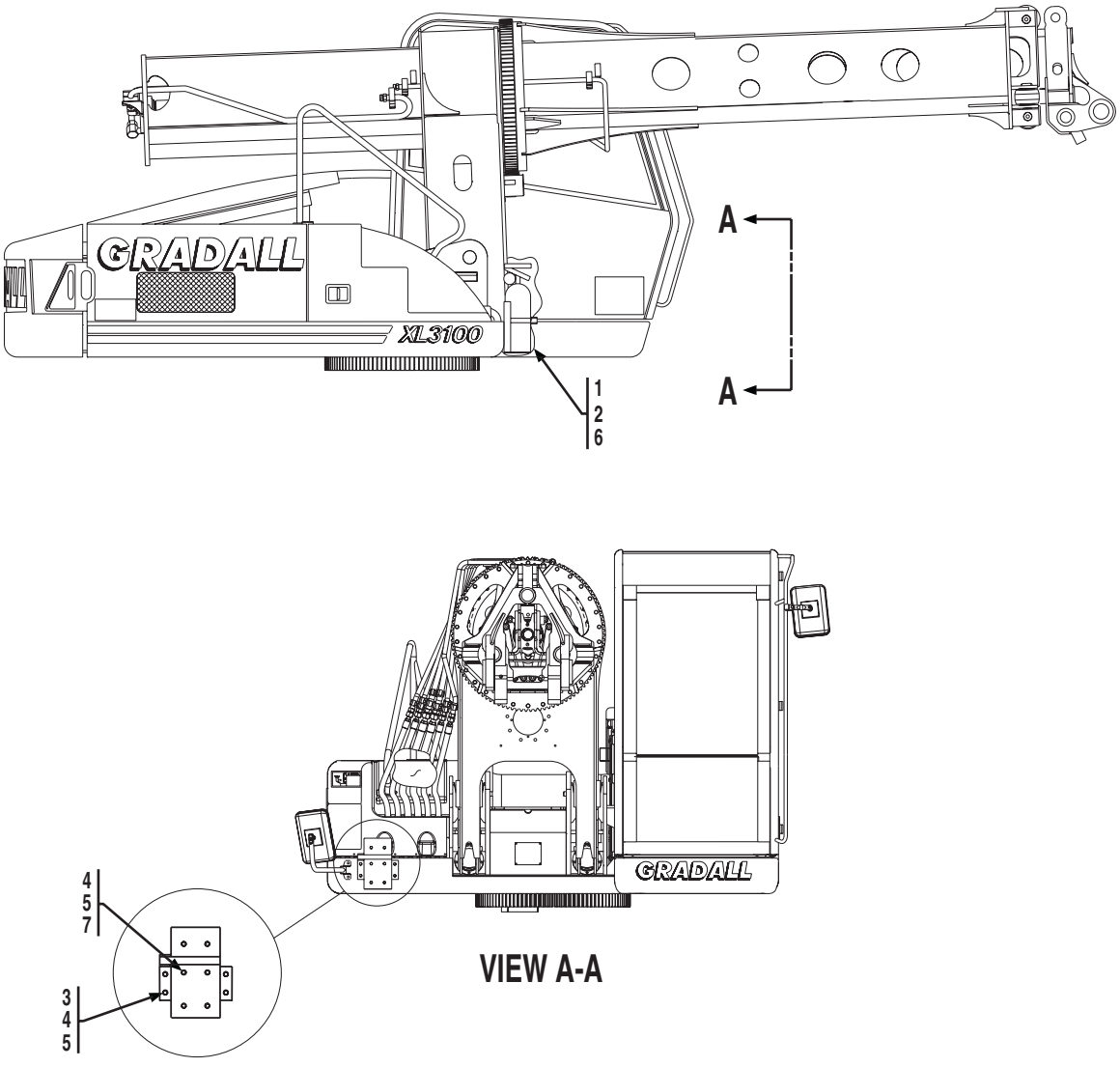
**Figure 12-7 Seat Belt Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80365013 | 1 | SEAT BELT INSTALLATION, (includes all items) | |
| 1 | 80363117 | 1 | SEAT BELT KIT | |
| 2 | 88201549 | 2 | HEX HD CAPSCREW, 7/16-20X1, GR5 | |
| 3 | 88561110 | 2 | FLAT WASHER, 7/16 | |

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**Figure 12-8 Fire Extinguisher Installation, (Upperstructure)**



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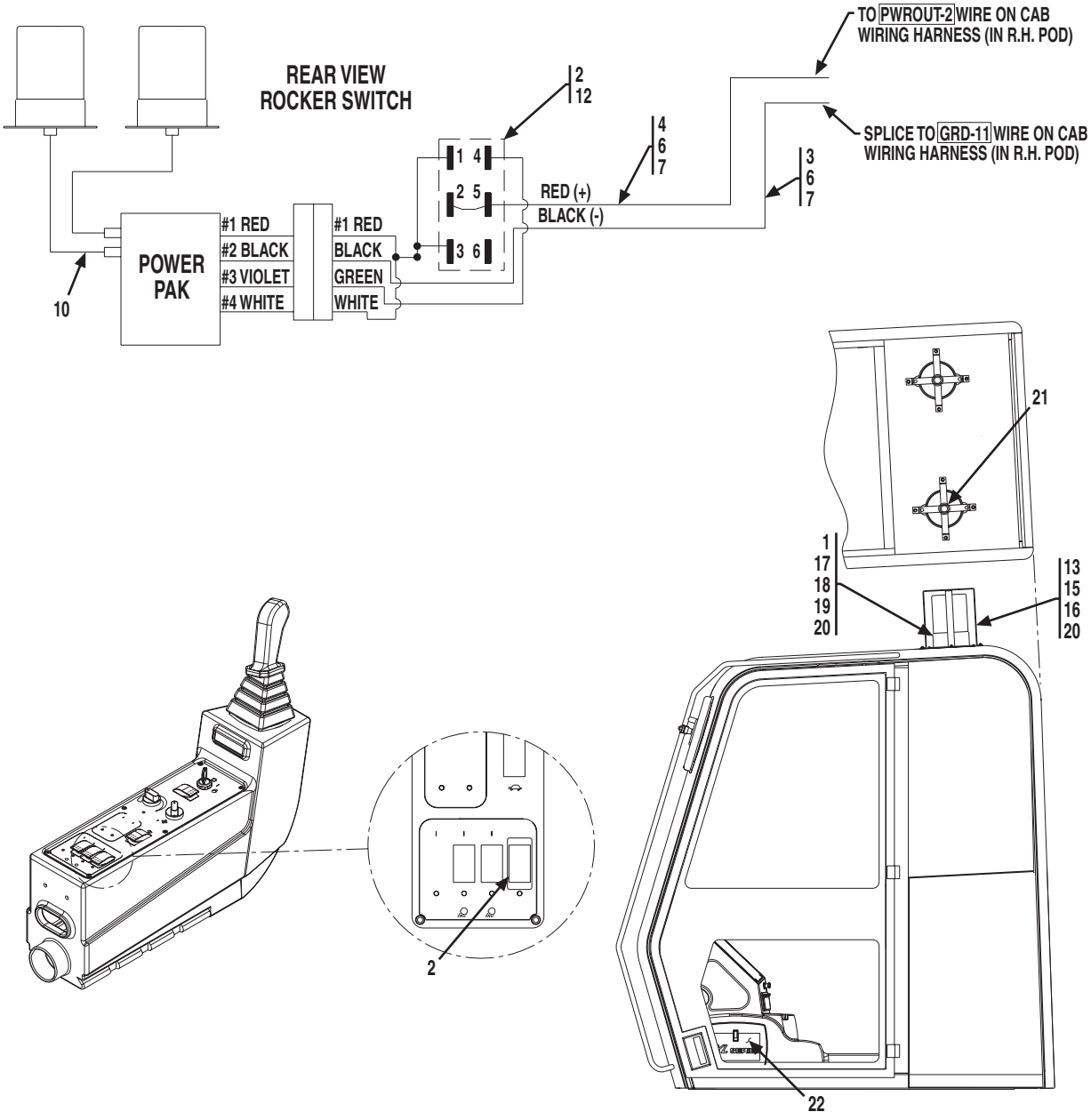
**Figure 12-8 Fire Extinguisher Installation, (Upperstructure)**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80365039 | 1 | FIRE EXTINGUISHER INSTALLATION, (includes all items) | |
| 1 | 83953177 | 1 | FIRE EXTINGUISHER, 10LBS. | |
| 2 | 80383417 | 1 | FIRE EXTINGUISHER COVER | |
| 3 | 88201021 | 4 | HEX HD CAPSCREW, 5/16-18X1-1/4, GR5 | |
| 4 | 88561003 | 12 | FLAT WASHER, 5/16 | |
| 5 | 88521205 | 8 | HEX LOCKNUT, 5/16-18 | |
| 6 | 80361097 | 1 | FIRE EXTINGUISHER BRACKET | |
| 7 | 88201020 | 4 | HEX HD CAPSCREW, 5/16-18X1, GR5 | |

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**Figure 12-9 Strobe Light Installation**



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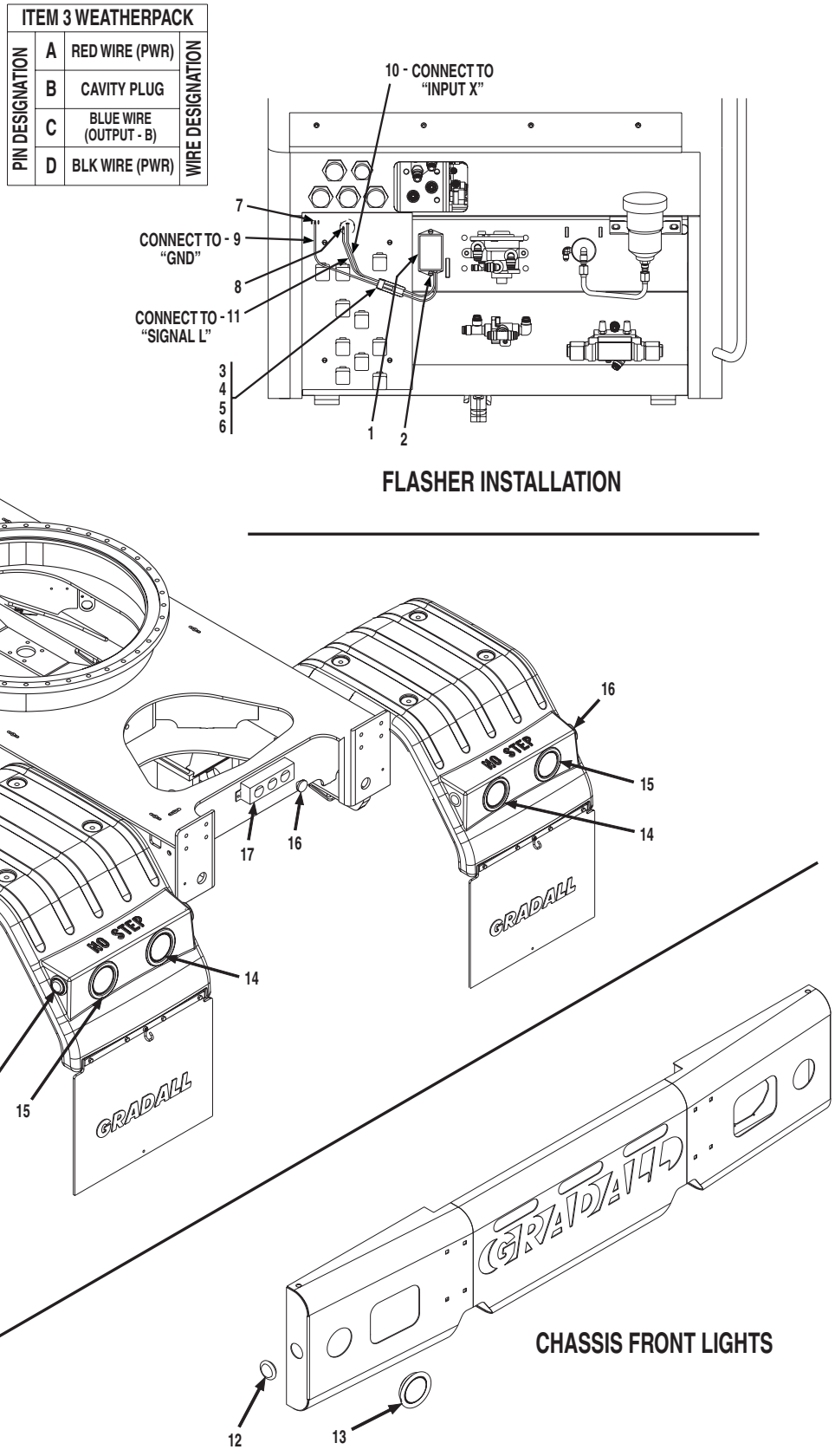
**Figure 12-9 Strobe Light Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80365054 | Ref | STROBE LIGHT INSTALLATION, (includes all items) | |
| 1 | X3103024 | 2 | STROBE LIGHT | |
| 2 | 91403320 | 1 | ROCKER SWITCH | |
| 3 | 86661147 | A/R | #16 AWG WIRE, BLACK | |
| 4 | 86661152 | A/R | #16 AWG WIRE, RED | |
| 5 | 77363272 | 8’ | MULTI-CONDUCTOR CABLE | |
| 6 | 86683480 | 5 | 16/14 BLUE BUTT CONN | |
| 7 | 83683549 | A/R | HEAT SHRINK | |
| 8 thru 9 | Not Used | | | |
| 10 | 80363235 | 2 | CABLE | |
| 11 | Not Used | | | |
| 12 | 77163102 | 5 | FEMALE SPADE, (16-14) | |
| 13 | X3106006 | 2 | STROBE LIGHT GUARD | |
| 14 | 88321029 | 4 | SELF TAPPING SCREW, #10-24X3/8 | |
| 15 | 80263012 | 8 | WHIZ-LOC BOLT, 1/4-20X1/2 | |
| 16 | 77143013 | 8 | WHIZ-LOC NUT, 1/4-20 | |
| 17 | 88301090 | 4 | ROUND HD MACHINE SCREW, #10-24X1/2 | |
| 18 | 88501612 | 4 | HEX NUT, #10-24 | |
| 19 | 88551007 | 4 | LOCKWASHER, #10 | |
| 20 | 14403364 | A/R | LOCTITE, #242 BLUE | |
| 21 | 86683103 | 2 | RUBBER GROMMET | |
| 22 | 80964008 | 1 | FUSE, 5 AMP | |

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**Figure 12-10 Chassis Lights Installation**



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**Figure 12-10 Chassis Lights Installation**

| Item | Part Number | Qty. | Description | Rev. |
|---|---|---|---|---|
| | 80485092 | Ref | CHASSIS LIGHTS INSTALLATION, (includes all items) | |
| 1 | 80363116 | 1 | FLASHER | |
| 2 | 88321039 | 2 | RD HD MACHINE SCREW, #10-32X1/2 | |
| 3 | 80963061 | 1 | WEATHERPACK TOWER | |
| 4 | 80963068 | 3 | FEMALE PIN TERMINAL | |
| 5 | 80963066 | 3 | CABLE SEAL | |
| 6 | 80963070 | 1 | CAVITY PLUG | |
| 7 | 77163238 | 1 | FEMALE SPADE CONNECTOR | |
| 8 | 77163239 | 2 | MALE SPADE CONNECTOR | |
| 9 | 86661147 | 12” | 16 GA. WIRE, (black) | |
| 10 | 86661152 | 9” | 16 GA. WIRE, (red) | |
| 11 | 86661155 | 9” | 16 GA WIRE, (blue) | |
| 12 | X4103240 | 2 | LIGHT | |
| 13 | X4103241 | 2 | LIGHT | |
| 14 | X4103238 | 2 | LIGHT | |
| 15 | X4103098 | 2 | LIGHT | |
| 16 | X4103239 | 5 | LIGHT | |
| 17 | X4106121 | 1 | LIGHT BOX | |

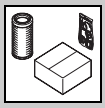
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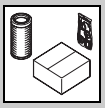
# RECOMMENDED SPARE PARTS



The following list will service fleets of machines (built to current production per date on the front cover) with repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your Gradall dealer or the Gradall Industries Parts Department.

| Part Number | Description | Qty./Machine |
|---|---|---|
| | **Boom Assembly** | |
| 80923009 | Boom Cradle Pivot Bushing, (see Figure 2-1) | 2 |
| 83625044 | Concave Roller, (see Figure 2-4) | 1 |
| 83625043 | Convex Roller, (see Figure 2-4) | 1 |
| 77325003 | Flat Roller, (see Figure 2-4) | 1 |
| 80323039 | Pad, (see Figure 2-3) | 3 |
| 77321063 | Eccentric Shaft, (see Figure 2-3) | 3 |
| 80221278 | Keeper, (see Sections 2) | 12 |
| 80326011 | Pin Weldment, (see Figure 1-11) | 2 |
| 80926012 | Pin Weldment, (see Sections 1 & 2) | 3 |
| 80626014 | Pin Weldment, (see Figure 1-11) | 2 |
| 80423042 | Bushing, (see Figure 2-5) | 5 |
| 80323047 | Bushing, (see Figure 2-5) | 2 |
| 80921159 | Rectangular Washer, (see Figure 2-5) | 2 |
| 80921174 | High Nut, (see Figure 2-5) | 2 |
| 88551018 | Lockwasher, (see Figure 2-5) | 2 |
| 80926029 | Wedge Bolt Weldment, (see Figure 2-5) | 2 |
| | | |
| | **Engine** | |
| 80484133 | Engine Filter Kit, (see Figure 4-2) | 1 |
| 83683030 | Fuel Tank Cap, (see Figure 4-6) | 1 |
| 83953265 | Fan, (see Figure 4-1) | 1 |
| 80483056 | Drive Belt, (see Figure 4-2) | 1 |
| | | |
| | **Drive Train** | |
| 83384072 | Bushing, (see Figure 5-5) | 1 |
| 86984196 | Bushing, (see Figure 5-5) | 1 |
| 86984226 | Bushing, (see Figure 5-7) | 1 |
| 86984274 | Bushing, (see Figure 5-10) | 1 |
| 83684369 | Bushing, (see Figure 5-18) | 1 |
| 83683832 | Bushing, (see Section 5) | 4 |
| 83684931 | Bushing, (see Figure 5-27) | 1 |
| 80684023 | Bushing, (see Figure 5-22) | 4 |
| 83684935 | Bushing, (see Figure 5-22) | 2 |
| 80684170 | Bushing, (see Section 5) | 2 |
| 83684070 | Bushing, (see Figure 5-31) | 4 |
| 83684081 | Bushing, (see Figure 5-31) | 2 |
| 83071693 | Bushing, (see Figure 5-31) | 1 |
| 83687060 | Seal, (see Sections 4 & 5) | 3 |
| 85403197 | Seal, (see Section 5) | 3 |
| 77384697 | Seal, (see Figure 9-39) | 2 |
| 80434228 | Seal, (see Figure 7-4) | 2 |
| 86981645 | Dowel Pin, (see Figure 5-17) | 4 |
| | | |
| | **Hydraulic System** | |
| 80264127 | Joystick Handle Grip Kit, (see Figure 7-1) | 1 |
| 91404326 | Joystick Seal Kit, (see Figure 7-1) | 1 |

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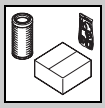
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| Part Number | Description | Qty./Machine |
|---|---|---|
| 80004106 | Hoist Cylinder Packing Kit, (see Figure 9-1) | 1 |
| 80223073 | Boom Cylinder Packing Kit, (see Figure 9-2) | 1 |
| 80004131 | Tool Cylinder Packing Kit, (see Figure 9-3) | 1 |
| 80384150 | Stabilizer Cylinder Packing Kit, (see Figure 9-4) | 1 |
| 80484045 | Remote Steering Cylinder Packing Kit, (see Figure 9-5) | 1 |
| 80334005 | Swing Motor Seal Kit, (see Figure 9-20) | 1 |
| 80273008 | Replacement In-Line Filter Element, (see Figure 9-31) | 1 |
| 80334322 | Main Pump Seal Kit, (see Figure 9-7) | 1 |
| 77133089 | Hydraulic Mini-Check, (see Sections 8 & 12) | 2 |
| 91143172 | Hydraulic Mini-Check, (see Sections 8 & 9) | 4 |
| 91053020 | Hydraulic Mini-Check, (see Figure 9-12) | 1 |
| 80933061 | Hydraulic Level Probe, (see Figure 9-31) | 1 |
| 80334243 | Center Pin Seal Kit, (see Figure 9-22) | 6 |
| | | |
| | **Electrical** | |
| 80383068 | Fuel Level Sender, (see Figure 4-6) | 1 |
| 77383377 | Starter Relay, (see Section 10) | 2 |
| 80984245 | Indicator Switch, (see Figure 9-26) | 1 |
| 91033317 | Ignition Switch, (see Sections 6 & 7) | 2 |
| 80964001 | Blower Switch, (see Sections 6 & 7) | 2 |
| 80233077 | Suction Switch, (see Figure 8-1) | 1 |
| 80483052 | Alternator, (see Figure 4-2) | 1 |
| 80483055 | Starter, (see Figure 4-2) | 1 |
| 91143357 | Horn, (see Sections 6 & 10) | 1 |
| 77383433 | Mini Siren, (see Figure 7-5) | 1 |
| 80383209 | Hydraulic Temperature Sender (see Figure 9-31) | 1 |
| 91403420 | Travel Alarm, (see Section 10) | 2 |
| 80384204 | Wiper Motor Assembly, (see Figure 6-11) | 1 |
| 80384213 | Wiper Blade, (see Figure 6-11) | 1 |
| 83953038 | Wiper/Washer Switch, (see Sections 6 & 7) | 1 |
| 80373175 | Oval LED Light, (see Figure 1-10) | 1 |
| 80483115 | Stop, Tail & Turn Light, (see Figure 10-1) | 1 |
| 80984291 | Reverse Light Switch, (see Figure 5-6) | 1 |
| 80984293 | Neutral Light Switch, (see Figure 5-6) | 1 |
| 80384143 | Turn Signal Switch, (see Figure 7-2) | 1 |
| 91403320 | Rocker Switch, (see Sections 7 & 12) | 2 |
| 80483116 | Backup Light, (see Figure 10-1) | 1 |
| 80683226 | License Plate Light, (see Figure 10-1) | 1 |
| 80464003 | Fuse, 10 amp, (see Figure 9-32) | 1 |
| 80464004 | Fuse, 15 amp, (see Figure 9-32) | 1 |
| 80464005 | Fuse, 20 amp, (see Figure 9-32) | 1 |
| 80464006 | Circuit Breaker, 20 amp, (see Sections 9 & 10) | 17 |
| 80464007 | Circuit Breaker, 30 amp, (see Figure 9-32) | 1 |
| 91403304 | Carling Switch, (see Sections 6 & 12) | 3 |
| 80383112 | Carling Switch, (see Figure 6-4) | 1 |
| 80363132 | Carling Switch, (see Figure 6-4) | 1 |
| 80383113 | Carling Switch, (see Figure 6-4) | 1 |

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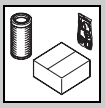
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| Part Number | Description | Qty./Machine |
|---|---|---|
| 80433185 | Temperature Switch, (see Figure 6-7) | 1 |
| 80333154 | Temperature Switch, (see Figure 9-38) | 1 |
| 77163231 | Stop Light Switch, (see Figure 4-16) | 2 |
| 80383366 | Pressure Switch, (see Figure 4-10) | 1 |
| 80433220 | Pressure Switch, (see Figure 6-8) | 2 |
| 80274011 | Pressure Switch, (see Figure 9-31) | 1 |
| | | |
| | **Misc** | |
| 77384578 | Ignition Key | 1 |
| 80964051 | Door Key | 1 |
| 80904003 | Hydraulic Test Kit | 1 |
| 24604083 | ORS O-Ring Kit | 1 |
| 77364247 | O-Ring Value Kit | 1 |
| 80904001 | XL O-Ring Kit | 1 |
| 31014003 | Engine Operator & Maintenance Manual | 1 |
| 80483142 | Engine Manual | 1 |
| 86681621 | Truck Safety Manual | 1 |
| 80603007 | EMI Safety Manual | 1 |
| 31014002 | Service Manual | 1 |
| 24604161 | Safety Manual | 1 |
| 24604140 | Upperstructure Operation & Lubrication Manual | 1 |
| 24604132 | Undercarriage Operation & Lubrication Manual | 1 |
| S4404070 | Spray Primer Paint | 1 |
| | | |
| 80305008 | Tool Kit, (includes the following items) | |
| 85041300 | Grease Gun | 1 |
| 85041301 | Hose & Coupling | 1 |
| 85041302 | Grease Cartridge | 2 |
| 85041356 | Box Wrench, 1-7/8” | 1 |
| 86641304 | Open Gear Lube | 1 |
| 8042115 | Spider Nut Wrench | 1 |
| 83451128 | Dust Cover | 1 |
| 14404645 | Boeshield, (12 oz.) | 1 |

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# RECOMMENDED SPARE PARTS

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| Part Number | Description | Qty./Machine |
|---|---|---|
| | | |

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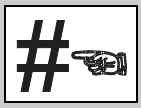
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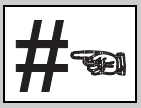
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