

# **ZA4T-Series PowaPak™ Bolting Pump Repair Parts Sheet**

**MODEL ZA4208TX-QR0P**

L4464

REV. A

06/20



**NOTE: To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.**  
Enerpac recommends that all kit components be installed to ensure optimum performance of the repaired product.

**ENERPAC** 

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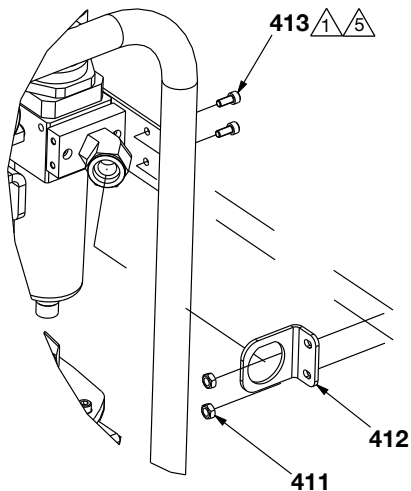
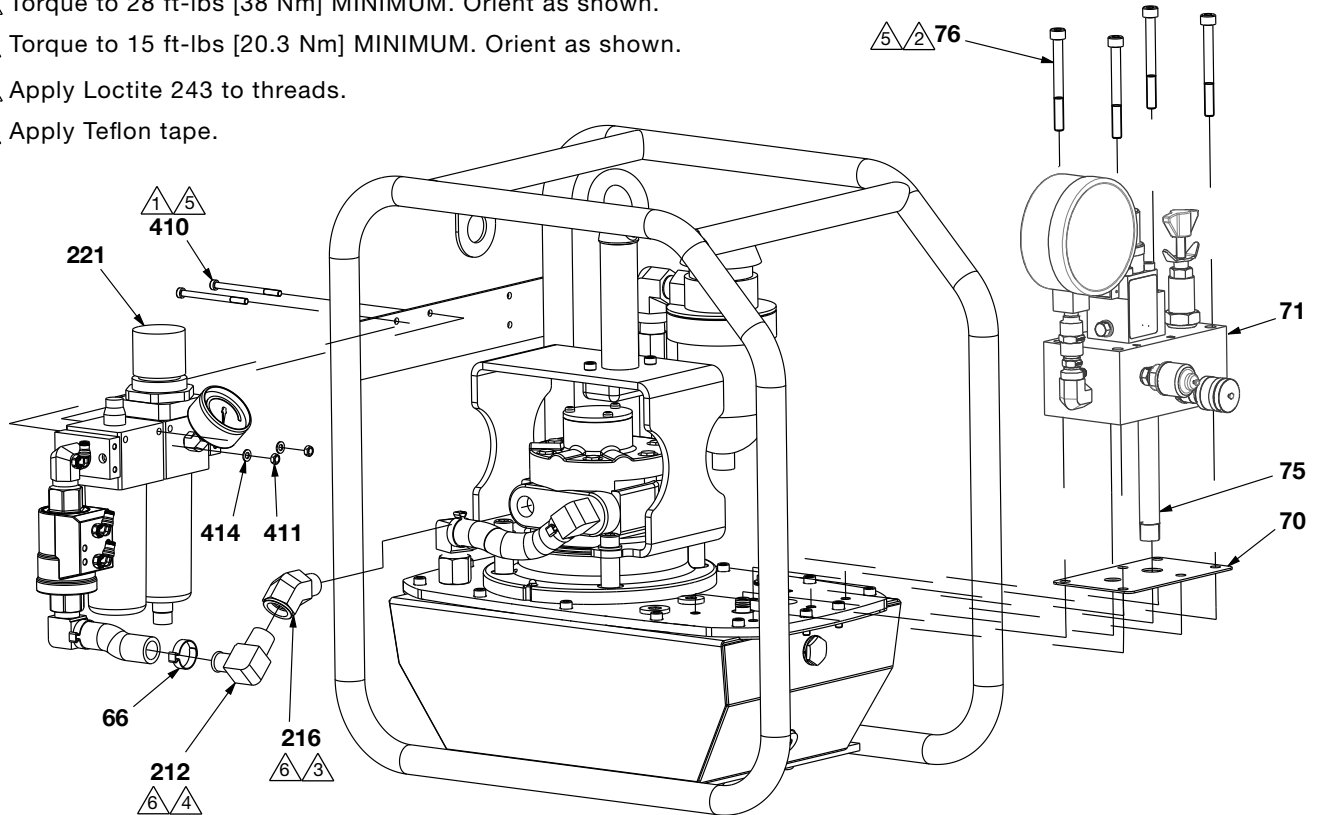
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 **WARNING** Shut off compressed air supply, disconnect air supply hose from pump and be sure all hydraulic pressure is completely relieved before performing any maintenance, disassembly or repair procedures. Verify that hydraulic pressure gauge indicates zero (0) psi/bar before disconnecting hydraulic hoses.

**Figure 1: Mounting Arrangements - Hydraulic Control Valve and Filter/Regulator/Lubricator Assembly**

**NOTES:**

- ① Torque to 55-65 ft-lbs [6.2-7.3 Nm].
- ② Torque to 16-19 ft-lbs [21.7-25.8 Nm].
- ③ Torque to 28 ft-lbs [38 Nm] MINIMUM. Orient as shown.
- ④ Torque to 15 ft-lbs [20.3 Nm] MINIMUM. Orient as shown.
- ⑤ Apply Loctite 243 to threads.
- ⑥ Apply Teflon tape.

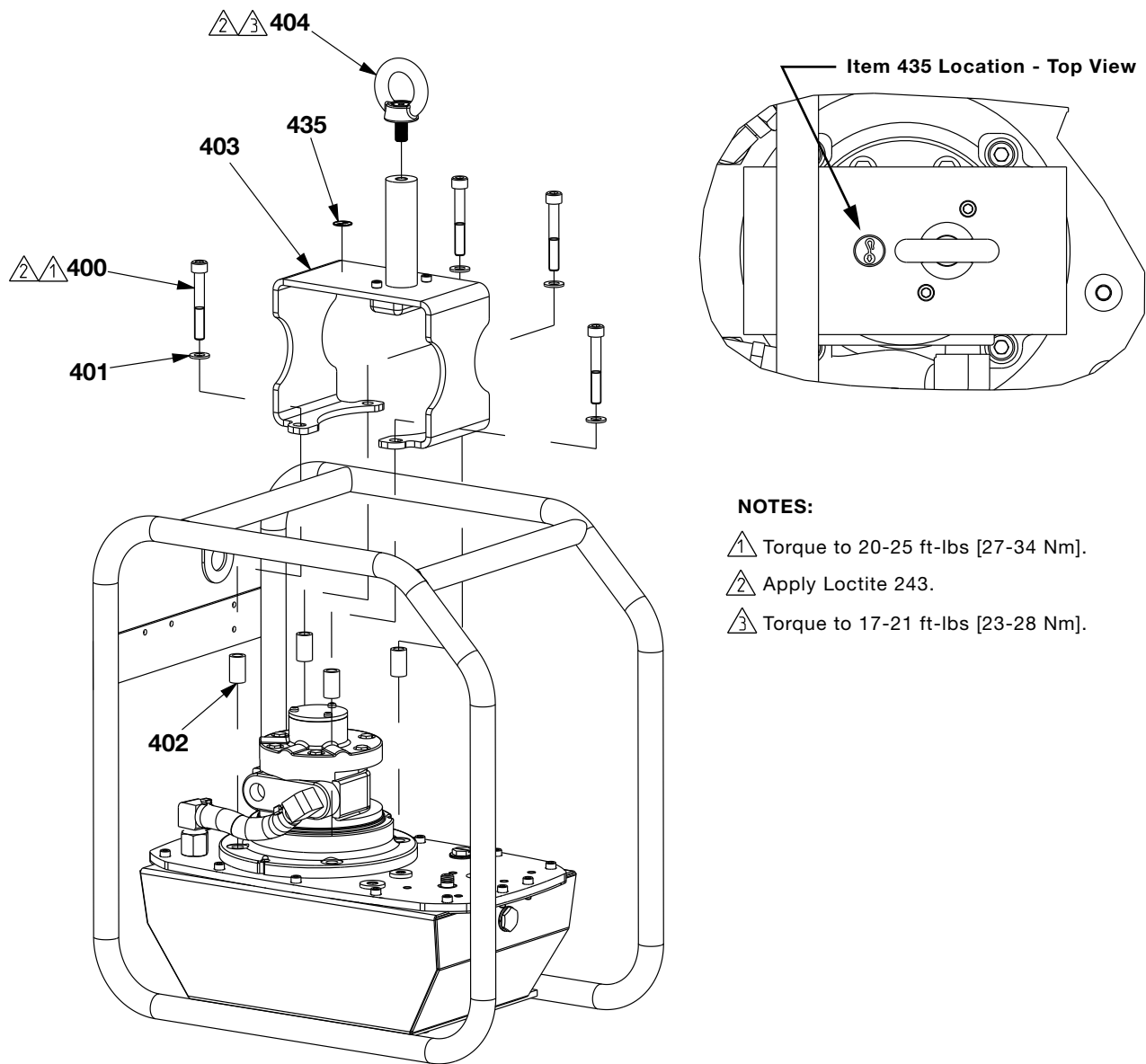


**Repair Parts List for Figure 1**

| Item | Part Number        | Qty. | Description              |
|------|--------------------|------|--------------------------|
| 66   | DC8038299          | 1    | Hose Clamp, 5/8" Crimp   |
| 70   | ★ DD1432037        | 1    | Gasket, Control Valve    |
| 71   | (See Fig. 7 & 8)   | 1    | Hyd. Control Valve, VA42 |
| 75   | DC2749768          | 1    | Pipe, Oil Return         |
| 76   | CBE843028-1A       | 4    | SHCS, Hex M8             |
| 212  | DC8036038          | 1    | Elbow, 5/8" Barbed       |
| 216  | DA1235095          | 1    | Elbow, 45 Deg M-F        |
| 221  | (See Fig. 11 & 12) | 1    | Assy, FRL & Air Logic    |
| 410  | CBE541028-1A       | 2    | SHCS, Hex M5             |
| 411  | CBE1050120-1D      | 4    | Nut, Hex M5              |
| 412  | DD8259111          | 1    | Bracket, FRL Support     |
| 413  | CBE517028-1A       | 2    | SHCS, Hex M5             |
| 414  | CAE1050108         | 2    | Washer, Flat             |

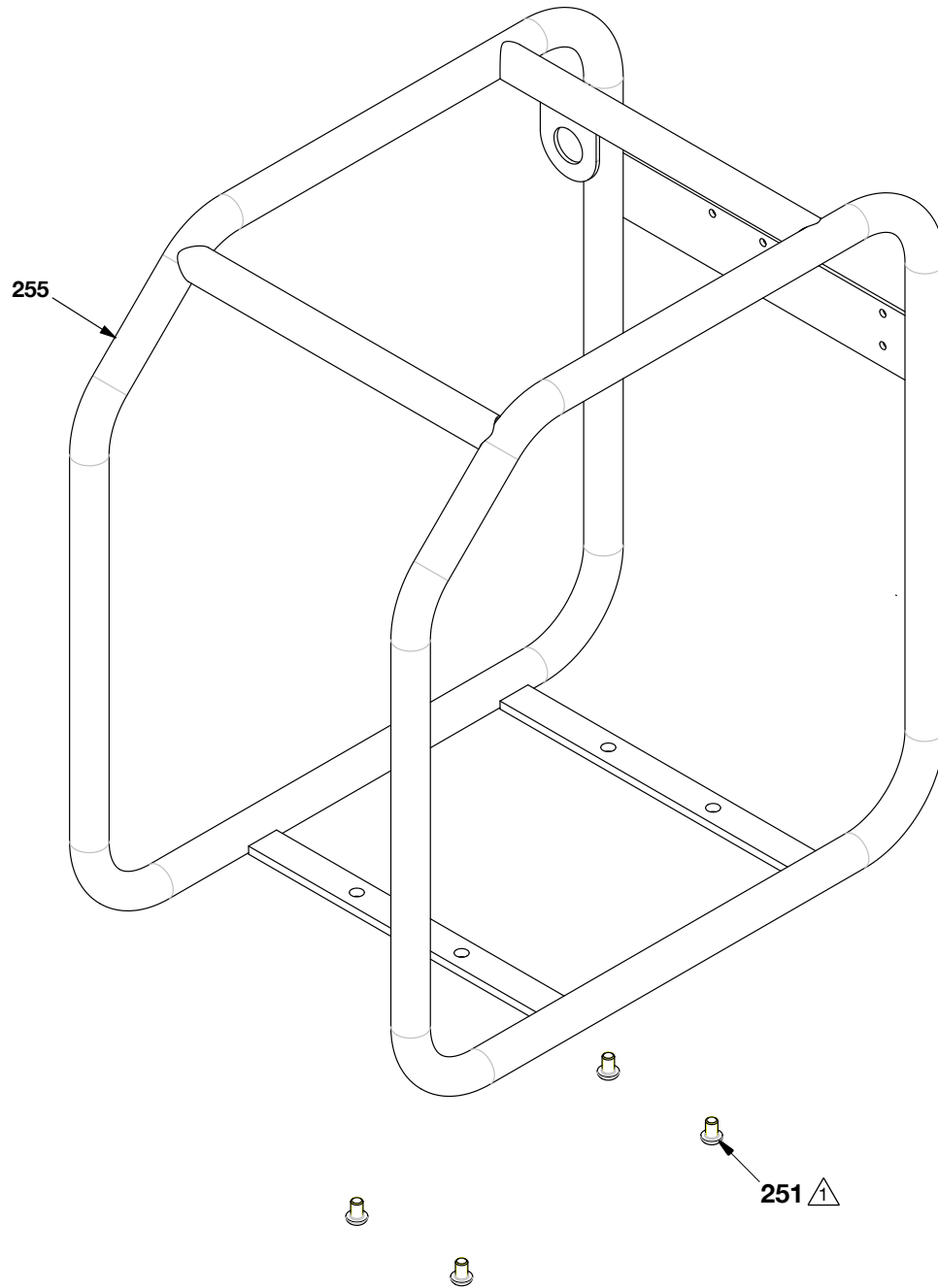
★ Included in Service Repair Seal Kit, ZA4T1K.

Figure 2: Lifting Eye and Bracket



| Repair Parts List for Figure 2                     |                 |      |                          |
|----------------------------------------------------|-----------------|------|--------------------------|
| Item                                               | Part Number     | Qty. | Description              |
| 400                                                | ◆ CBE1041028-1A | 4    | Capscrew, SHCS M10       |
| 401                                                | ◆ CAE1100108-1A | 4    | Washer, Flat             |
| 402                                                | ◆ DD8366186     | 4    | Spacer, M10              |
| 403                                                | ◆ DD8006900     | 1    | Bracket Assy, Lifting Pt |
| 404                                                | DB8086667SR     | 1    | Eyebolt, Rotating M12    |
| 435                                                | ◆ DD2587226     | 1    | Decal, Lifting Point CE  |
| ◆ Included in Lift Point Service Kit, DD8006900SR. |                 |      |                          |

Figure 3: Roll Cage Assembly



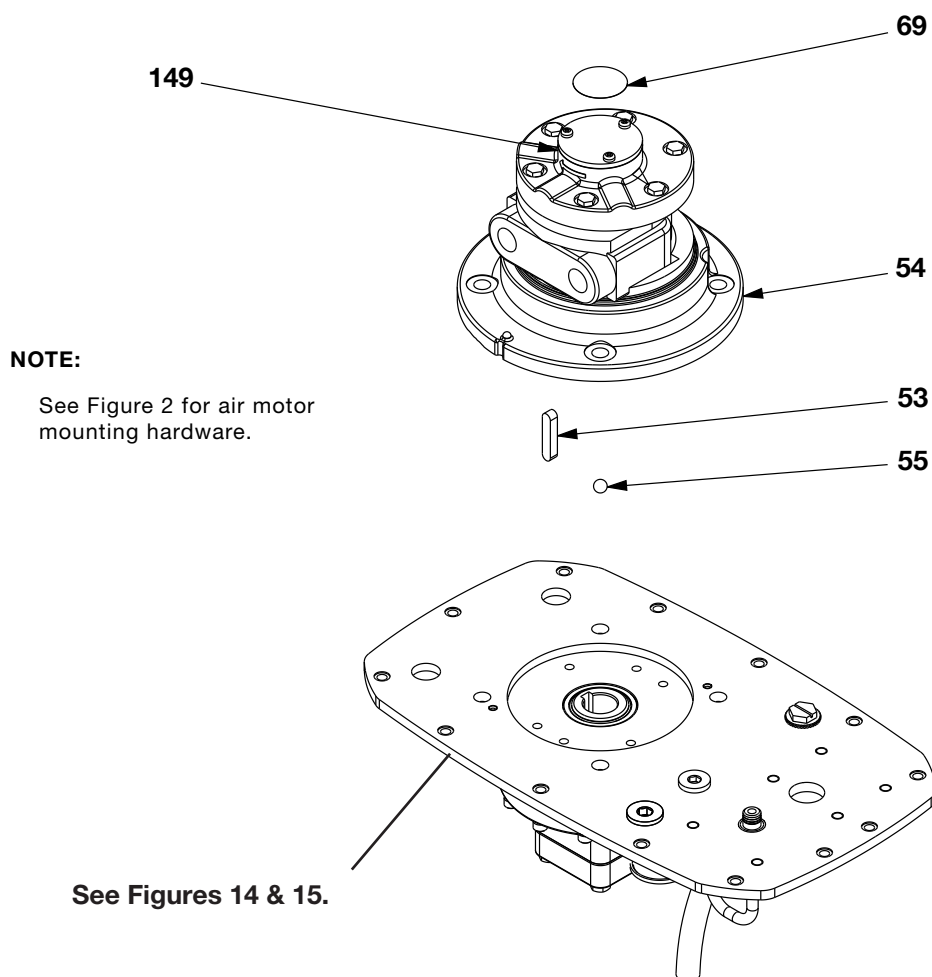
**NOTE:**

△ Torque to 11.0-13.0 ft-lbs [14.9-17.6 Nm].

Repair Parts List for Figure 3

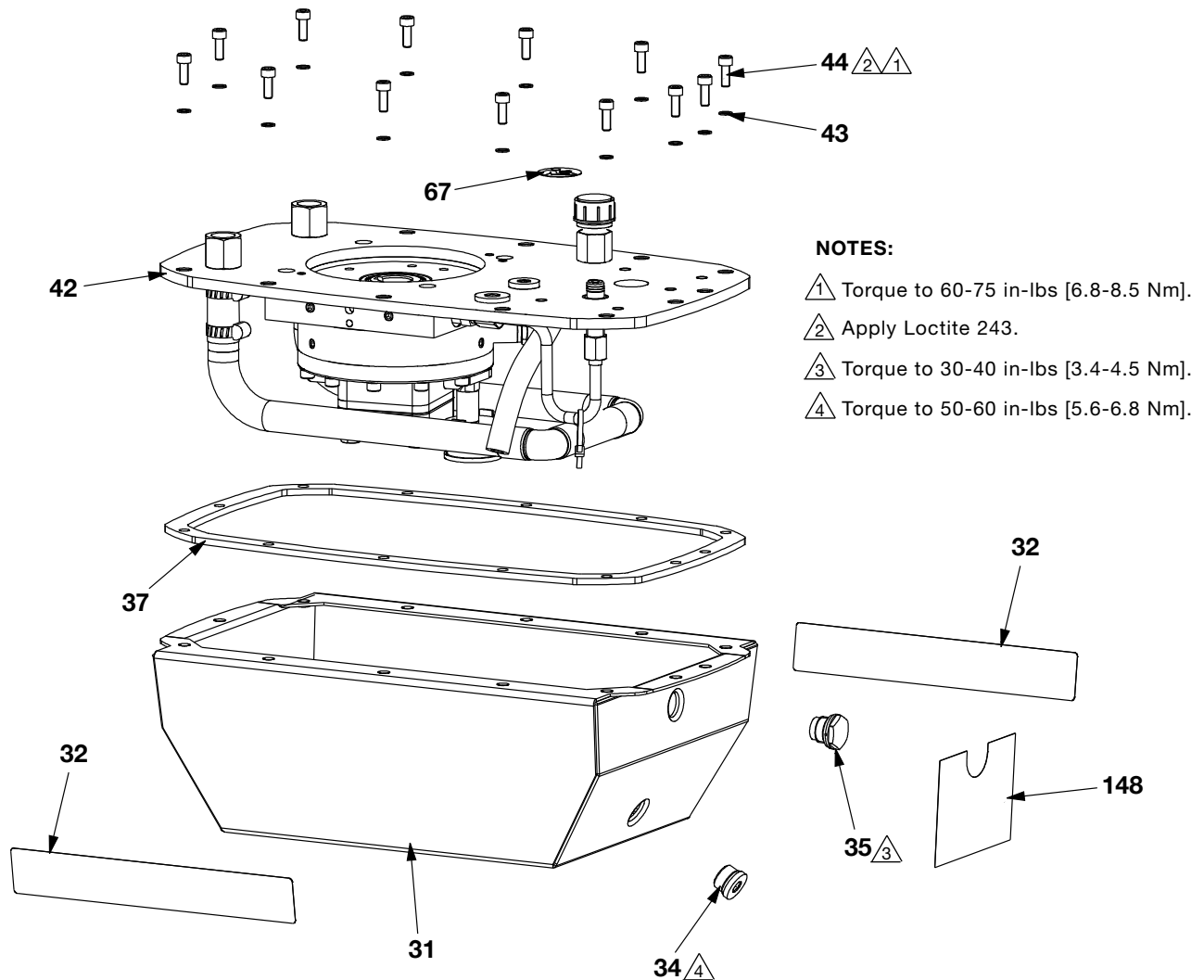
| Item | Part Number  | Qty. | Description  |
|------|--------------|------|--------------|
| 251  | CBE817028-1E | 4    | BHCS, Hex M8 |
| 255  | DD8009500SR  | 1    | Roll Cage    |

Figure 4: Air Motor Assembly



| Repair Parts List for Figure 4                              |             |      |                      |
|-------------------------------------------------------------|-------------|------|----------------------|
| Item                                                        | Part Number | Qty. | Description          |
| 53                                                          | * DD4308251 | 1    | Motor Key, Hardened  |
| 54                                                          | * DA4930259 | 1    | Air Motor            |
| 55                                                          | * 44968     | 1    | Rubber Ball, 3/8" 70 |
| 69                                                          | * DC8099026 | 1    | Decal, ZA4           |
| 149                                                         | * CJ193026  | 1    | Decal, Rotation      |
| * Included in ZA Air Motor Service Repair Kit, DA4930259SR. |             |      |                      |

Figure 5: Coverplate and Hydraulic Reservoir Assembly

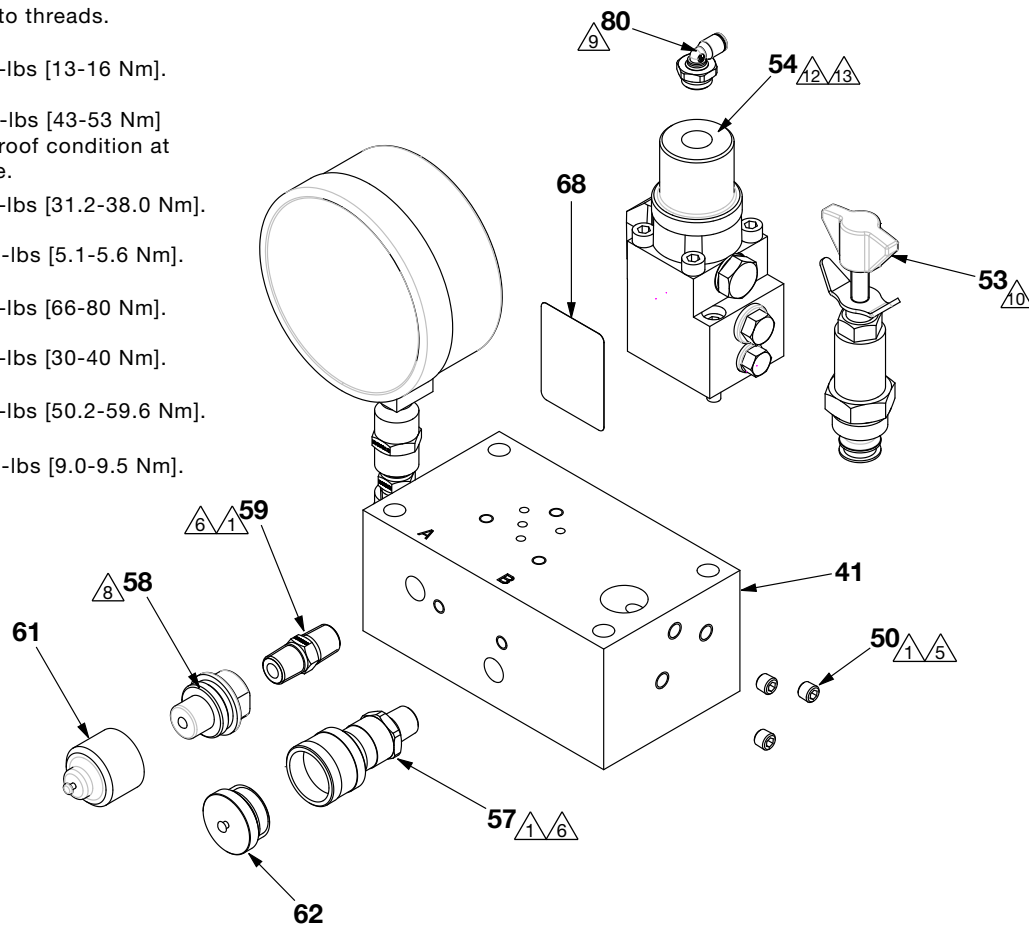


| Repair Parts List for Figure 5                                              |                     |      |                       |
|-----------------------------------------------------------------------------|---------------------|------|-----------------------|
| Item                                                                        | Part Number         | Qty. | Description           |
| 31                                                                          | ❖ DC8136025         | 1    | Reservoir, 8L Short   |
| 32                                                                          | ❖ DC9596026         | 2    | Decal, Enerpac        |
| 34                                                                          | ❖ DC8249006         | 1    | Threaded Plug w/Mgt   |
| 35                                                                          | ❖ DC85900SR         | 1    | Assembly, Sight Glass |
| 37                                                                          | ▼★❖ DC9551920SR     | 1    | Gasket, Reservoir     |
| 42                                                                          | (See Figs. 14 & 15) | 1    | Coverplate Assy       |
| 43                                                                          | ★ S3037             | 13   | Gasket                |
| 44                                                                          | CBE619028-1A        | 13   | SHCS, Hex M6          |
| 67                                                                          | DC9920026           | 1    | Decal, Read Inst      |
| 148                                                                         | DD8398026           | 1    | Decal, Product Spec   |
| ❖ Included in 8L Reservoir Kit, DC8136025SR.                                |                     |      |                       |
| ★ Included in Service Repair Seal Kit, ZA4T1K.                              |                     |      |                       |
| ▼ Pump element gasket (Fig. 13, item 25) is also included with DC9551920SR. |                     |      |                       |

Figure 6: Hydraulic Control Valve Assembly (View 1 of 2)

**NOTES:**

- △1 Apply Teflon tape to threads.
- △5 Torque to 10-12 ft-lbs [13-16 Nm].
- △6 Torque to 32-39 ft-lbs [43-53 Nm] to ensure a leak proof condition at operating pressure.
- △8 Torque to 23-28 ft-lbs [31.2-38.0 Nm].
- △9 Torque to 45-50 in-lbs [5.1-5.6 Nm].
- △10 Torque to 49-59 ft-lbs [66-80 Nm].
- △11 Torque to 22-30 ft-lbs [30-40 Nm].
- △12 Torque to 37-44 ft-lbs [50.2-59.6 Nm].
- △13 Torque to 79-84 in-lbs [9.0-9.5 Nm].
- △14 Must be flush.



Repair Parts List for Figure 6

| Item | Part Number    | Qty. | Description               |
|------|----------------|------|---------------------------|
| 41   | * DD4297038    | 1    | Manifold                  |
| 50   | ☆ A1006245     | 3    | Plug, Flush, Hex 27.00    |
| 51   | ☆ A1008245     | 1    | Plug, Flush Hex 18.00     |
| 53   | ☆ 45423        | 1    | Cartridge Relief Valve    |
| 54   | ☆ DD8007660    | 1    | Valve, 4 Way, 2 Position. |
| 57   | ☆ U962148134-2 | 1    | Coupler Half, Female      |
| 58   | ☆ DC6188020    | 1    | Coupler                   |
| 59   | ☆ CJ647096     | 1    | Nipple, Pipe              |
| 61   | ☆ DC6187234    | 1    | Dust Cap Male             |
| 62   | ☆ DC6629020    | 1    | Dust Cap Female           |
| 68   | ☆ DD1423026    | 1    | Decal, Valve Schematic    |
| 80   | ☆ DD8024097    | 1    | Elbow, G1/4               |

\* Included in Valve Body Service Repair Kit, DD4297038SR.

☆ Included in Valve Service Repair Kit, DD8312900SR.

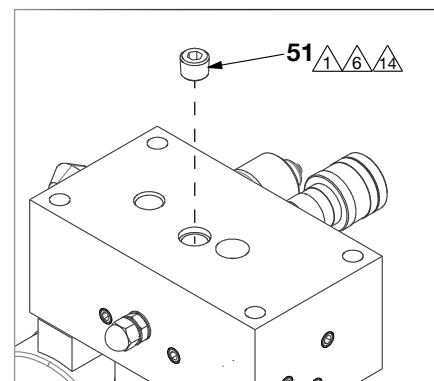
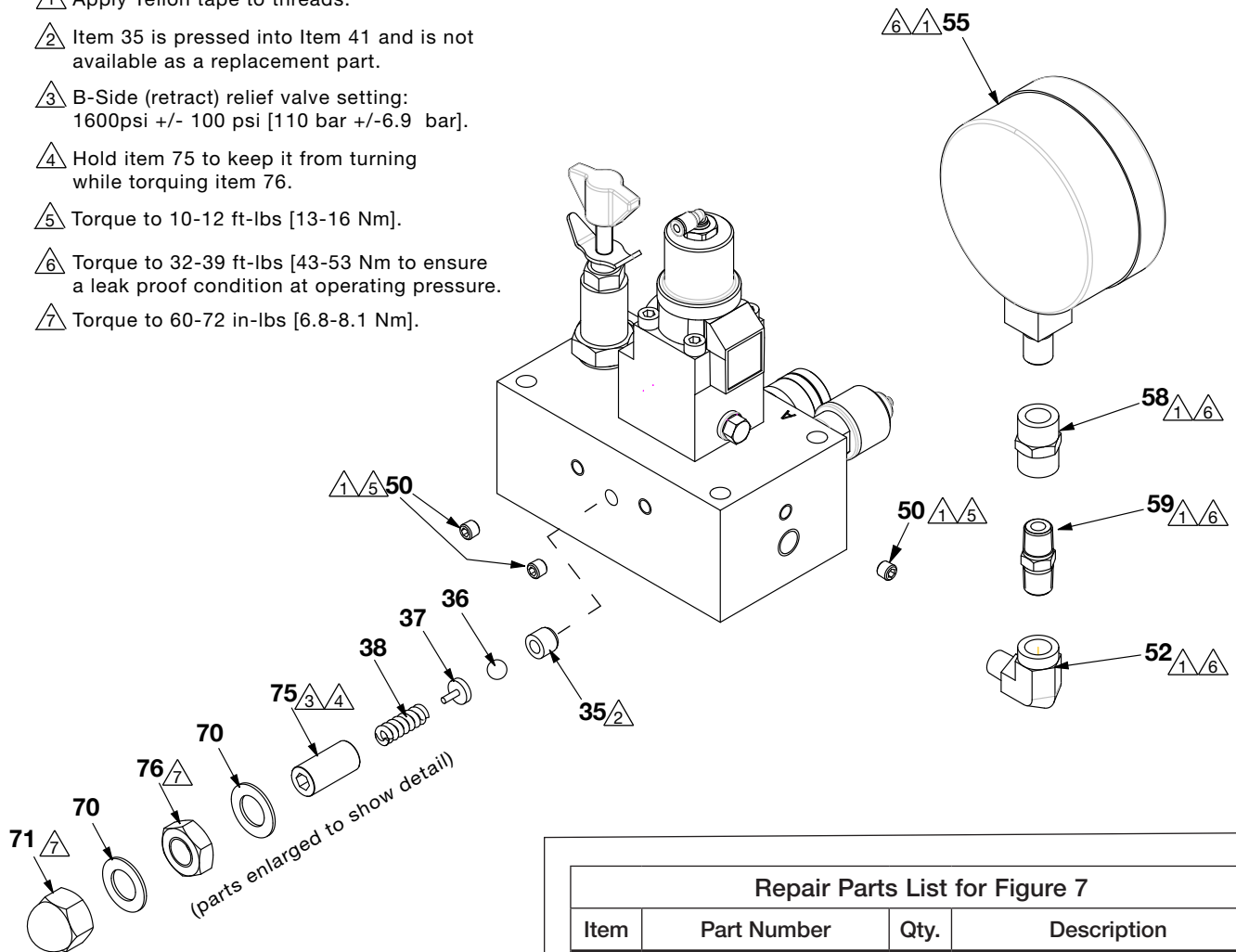


Figure 7: Hydraulic Control Valve Assembly (View 2 of 2)

**NOTES:**

- ① Apply Teflon tape to threads.
- ② Item 35 is pressed into Item 41 and is not available as a replacement part.
- ③ B-Side (retract) relief valve setting: 1600psi +/- 100 psi [110 bar +/-6.9 bar].
- ④ Hold item 75 to keep it from turning while torquing item 76.
- ⑤ Torque to 10-12 ft-lbs [13-16 Nm].
- ⑥ Torque to 32-39 ft-lbs [43-53 Nm to ensure a leak proof condition at operating pressure.
- ⑦ Torque to 60-72 in-lbs [6.8-8.1 Nm].



**Repair Parts List for Figure 7**

| Item | Part Number  | Qty. | Description              |
|------|--------------|------|--------------------------|
| 35   | ★ ☆ A8015290 | 1    | Seat                     |
| 36   | ☆ B1005016   | 1    | Ball, 0.188              |
| 37   | ☆ K1013      | 1    | Guide                    |
| 38   | ☆ DC6632110  | 1    | Spring                   |
| 50   | ☆ A1006245   | 3    | Plug, Flush Hex 27.00    |
| 52   | ☆ F100095-7  | 1    | Fitting, 90 Degree       |
| 55   | ☆ U132605223 | 1    | Pressure Gauge           |
| 58   | ☆ CK837096   | 1    | Fitting, 1/4" X 1/4" Fem |
| 59   | ☆ CJ647096   | 1    | Nipple, Pipe             |
| 70   | ☆ G909167    | 2    | Gasket                   |
| 71   | ☆ DC5625055  | 1    | Acorn Nut, .312-24 UNF   |
| 75   | ☆ BF3110027F | 1    | Set Screw, Flat, Hex     |
| 76   | ☆ B1004124   | 1    | Nut, Jam, 24, 0.188      |

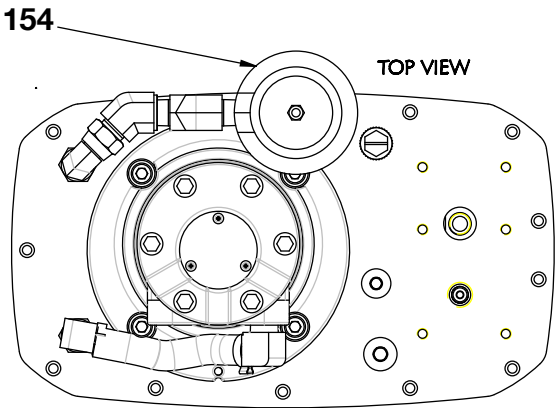
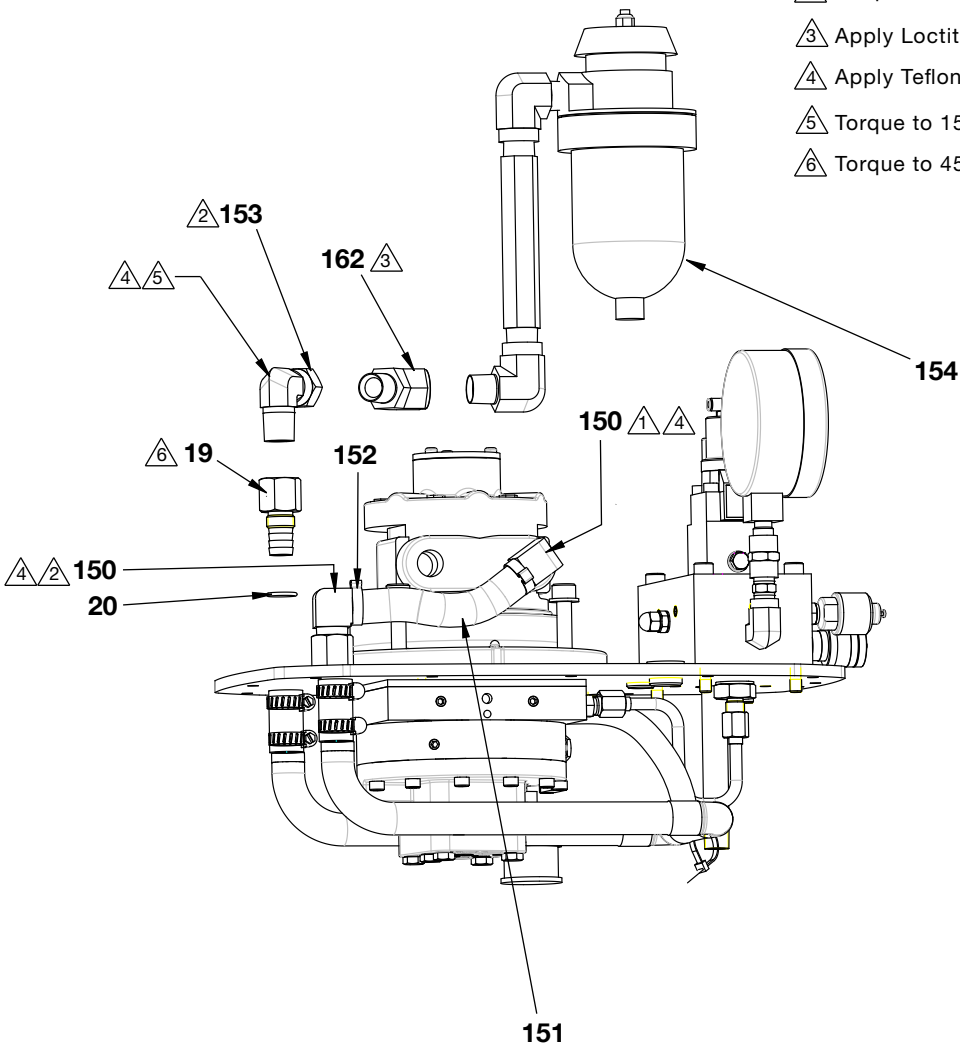
★ Included in Valve Body Service Repair Kit, DD4297038SR.

☆ Included in Valve Service Repair Kit, DD8312900SR.

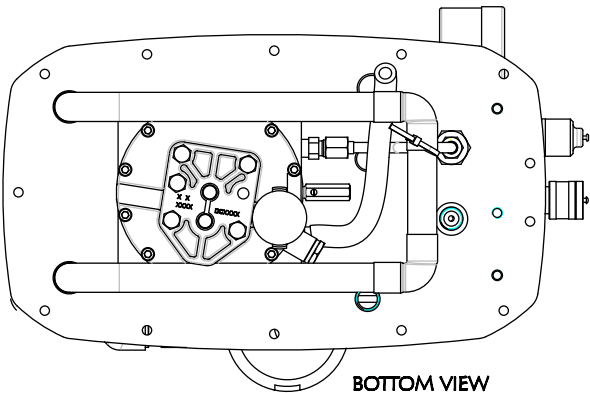
Figure 8: Air Exhaust Muffler

NOTES:

- ① Torque to 28-32 ft-lbs [38-43 Nm].
- ② Torque to 15 ft-lbs [20 Nm] MINIMUM.
- ③ Apply Loctite 592 to threads.
- ④ Apply Teflon tape to threads.
- ⑤ Torque to 15-32 ft-lbs [20.3-48.4 Nm].
- ⑥ Torque to 45-47 ft-lbs [61-64 Nm].

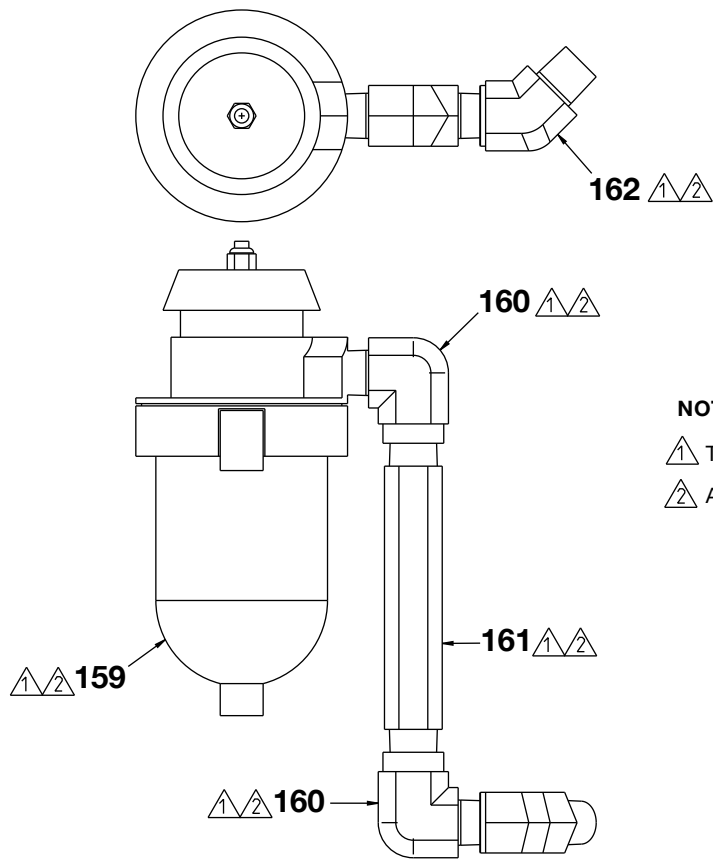


TOP VIEW



BOTTOM VIEW

**Figure 9: Air Exhaust Muffler Subassembly**

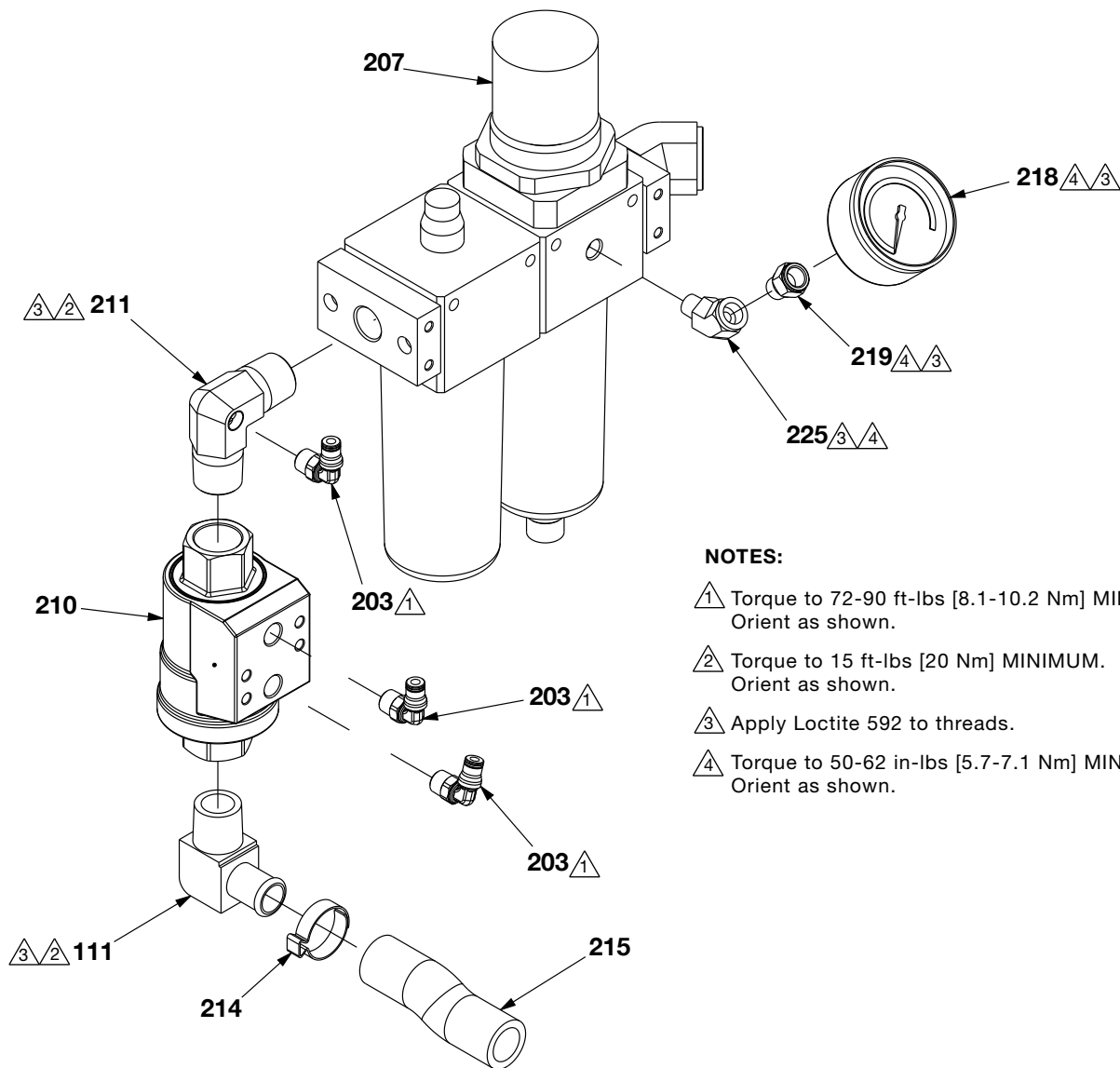


**NOTES:**

- △ Torque to 28-32 ft-lbs [38-43 Nm].
- △ Apply Loctite 592 to threads.

| Repair Parts List for Figures 8 and 9          |                              |      |                        |
|------------------------------------------------|------------------------------|------|------------------------|
| Item                                           | Part Number                  | Qty. | Description            |
| 19                                             | DC8035038                    | 2    | Adapter                |
| 20                                             | ★ B1908503                   | 2    | O-Ring                 |
| 150                                            | DC8036038                    | 2    | Elbow, Barbed          |
| 151                                            | DC8046646                    | 1    | Hose, 5/8" ID          |
| 152                                            | DC8038299                    | 2    | Clamp, Hose            |
| 153                                            | DC8126095                    | 1    | Fitting, Swivel Elbow  |
| 154                                            | (See Fig. 9 - items 159-162) | 1    | Subassembly, Muffler   |
| 159                                            | ▲ DC8123116                  | 1    | Muffler, Air Exhaust   |
| 160                                            | ▲ F100095-45                 | 2    | Elbow, Street 1/2" NPT |
| 161                                            | ▲ DC8120268                  | 1    | Pipe, 1/2" NPT x 6.0"  |
| 162                                            | ▲ DA1235095                  | 1    | Elbow, Street, 45 Deg  |
| ▲ Included in Muffler Kit, ZAM-W.              |                              |      |                        |
| ★ Included in Service Repair Seal Kit, ZA4T1K. |                              |      |                        |

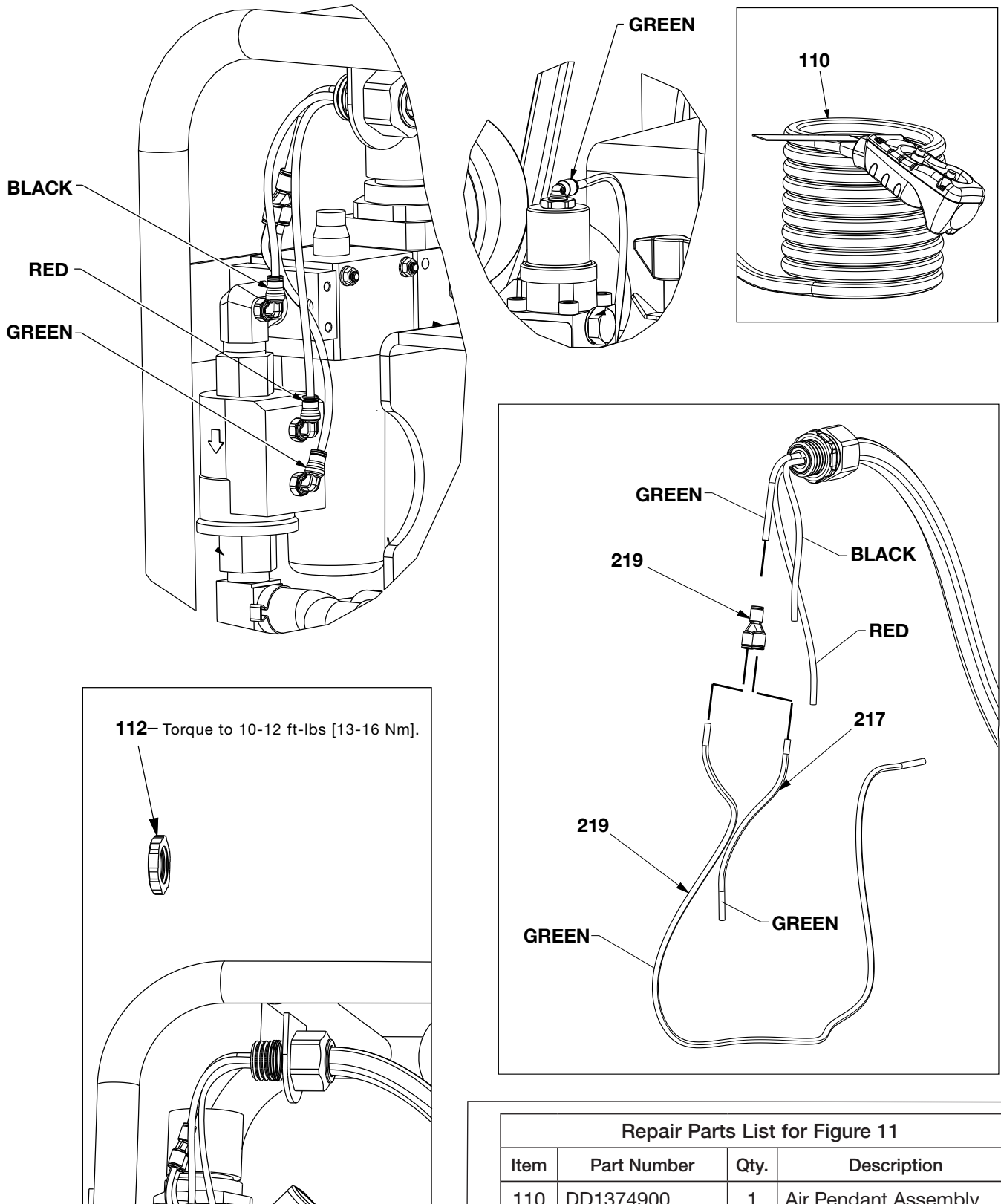
Figure 10: Filter/Regulator/Lubricator Subassembly



Repair Parts List for Figure 10

| Item | Part Number | Qty. | Description              | Item | Part Number | Qty. | Description           |
|------|-------------|------|--------------------------|------|-------------|------|-----------------------|
| 111  | DC8036038   | 1    | Elbow, Barbed            | 214  | DC8038299   | 1    | Hose Clamp 5/8"       |
| 203  | DC8170097   | 3    | Elbow, Swivel            | 215  | DD1357646   | 1    | Hose, Air 5/8"        |
| 207  | DD8135118SR | 1    | Assy, Filter/Reg/Lube    | 216  | DA1235095   | 1    | Fitting, Male-Female  |
| 210  | DD1355660   | 1    | Valve, Air Control Logic | 218  | DD8136223SR | 1    | Pressure Gauge, Air   |
| 211  | DC8086095   | 1    | Elbow, 1/2" NPT          | 219  | DD8401038   | 1    | Adapter, M, 1/8" NPTF |
| 214  | DC8038299   | 1    | Hose Clamp 5/8"          | 225  | F100095-107 | 1    | Elbow, Male-Female    |

Figure 11: Air Pendant and Connections

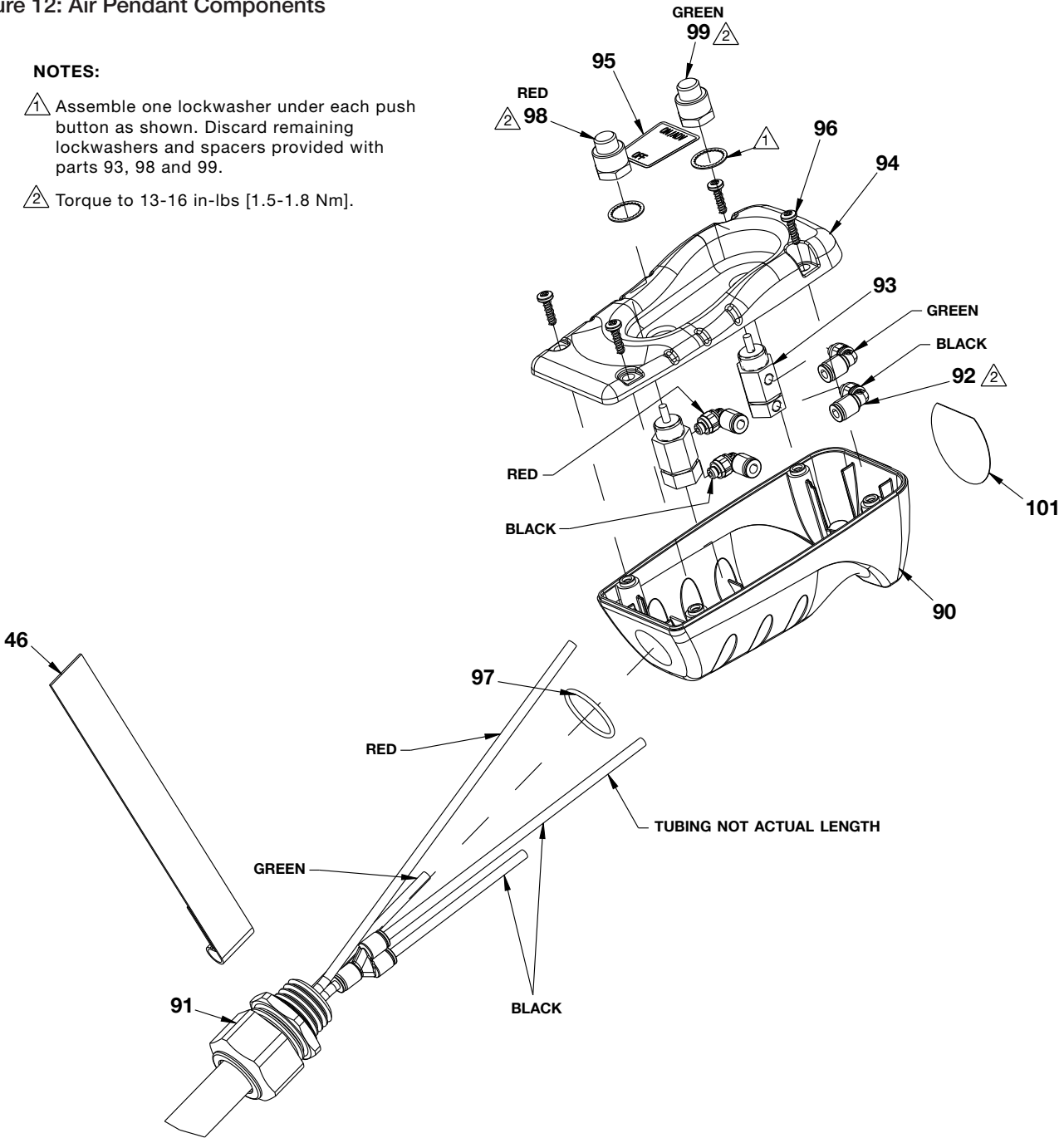


| Repair Parts List for Figure 11 |             |      |                      |
|---------------------------------|-------------|------|----------------------|
| Item                            | Part Number | Qty. | Description          |
| 110                             | DD1374900   | 1    | Air Pendant Assembly |
| 112                             | DC9683021   | 1    | Locking Nut, 25 mm   |
| 209                             | DD8319268   | 1    | Air Tube (green)     |
| 217                             | DD8318268   | 1    | Air Tube (green)     |
| 219                             | DC3574097   | 1    | Y-Adapter F to F     |

Figure 12: Air Pendant Components

NOTES:

- 1 Assemble one lockwasher under each push button as shown. Discard remaining lockwashers and spacers provided with parts 93, 98 and 99.
- 2 Torque to 13-16 in-lbs [1.5-1.8 Nm].

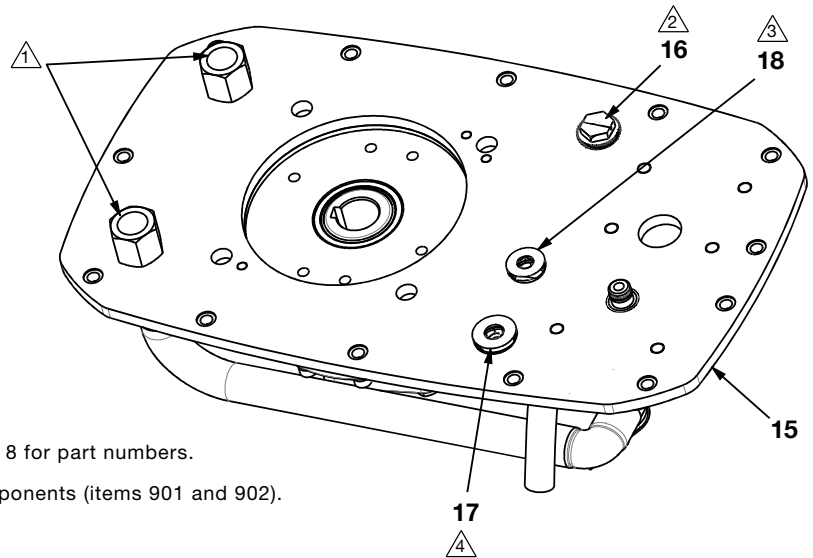
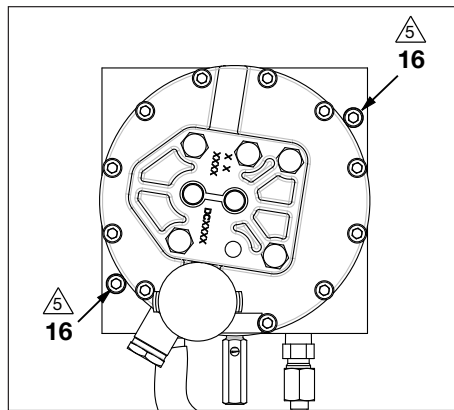


Repair Parts List for Figure 12

| Item | Part Number | Qty. | Description        | Item | Part Number | Qty. | Description            |
|------|-------------|------|--------------------|------|-------------|------|------------------------|
| 46   | + DA7570217 | 1    | Cord Strap         | 95   | + DC8127026 | 1    | Decal, On/Adv-Off      |
| 90   | + DC9991424 | 1    | Lower Pendant      | 96   | + DC9428008 | 4    | Screw, Hi-Lo #8 x 1/2" |
| 91   | + DD1400646 | 1    | Air Tube           | 97   | + B1227503  | 1    | O-Ring, Round          |
| 92   | + DC8060097 | 4    | Elbow #10 x 5/32"  | 98   | + DC3578379 | 1    | Push Button, Red       |
| 93   | + DC8059379 | 2    | Valve, Push Button | 99   | + DC3577379 | 1    | Push Button, Green     |
| 94   | + DC8122424 | 1    | Housing, Upper     | 101  | + DD1394026 | 1    | Decal, Pressure Relief |

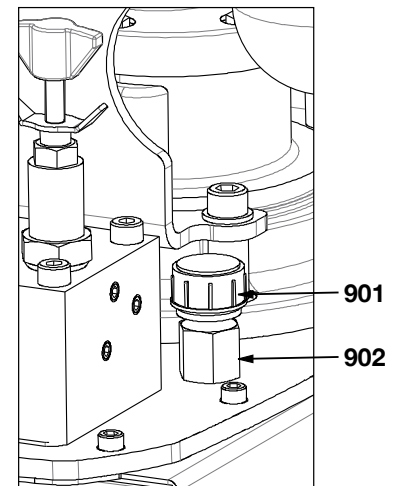
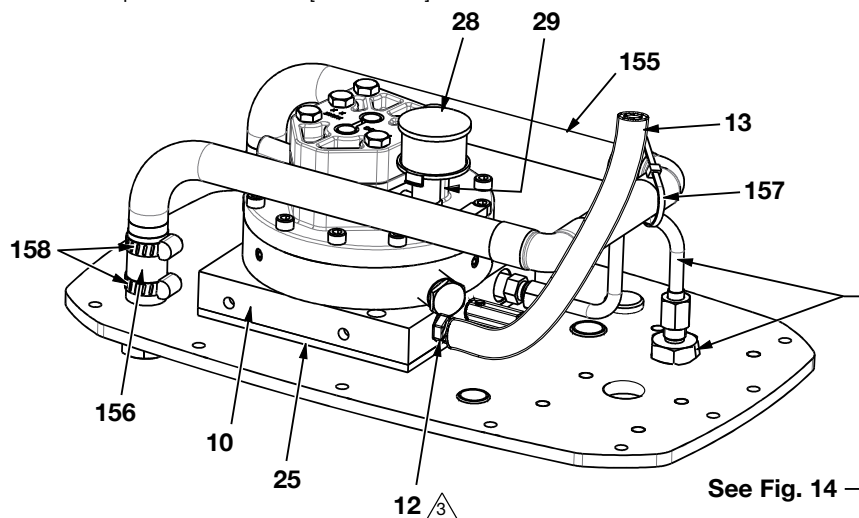
+ Included in Pendant and Cable Assembly DC9948900SR.

Figure 13: Coverplate, Pump Element & Heat Exchanger Assembly



**NOTES:**

- △1 Torque to 45-47 ft-lbs [61-64 Nm]. See Fig. 8 for part numbers.
- △2 Remove and replace with air breather components (items 901 and 902).
- △3 Torque to 15-18 ft-lbs [20-24 Nm].
- △4 Torque to 14-16 in-lbs [1.6-1.8 Nm].
- △5 Apply Loctite 545 to threads.  
Torque to 72-84 in-lbs [8.1-9.5 Nm].



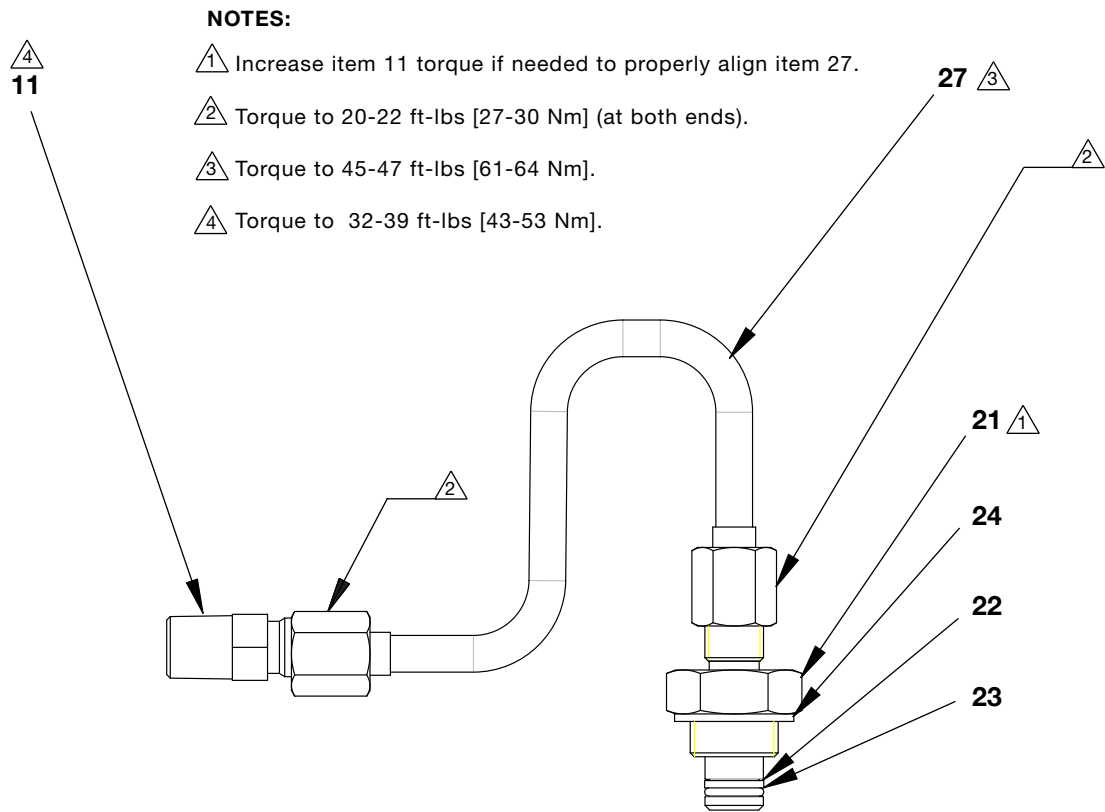
Repair Parts List for Figure 13

| Item | Part Number   | Qty. | Description            | Item | Part Number | Qty. | Description          |
|------|---------------|------|------------------------|------|-------------|------|----------------------|
| 12   | F100097-16    | 1    | Fitting, Hose Barbed   | 28   | DC9178118   | 1    | Intake Filter        |
| 13   | DC9335646     | 1    | Hose, Bypass           | 29   | DC9600268   | 1    | Tube, Oil Intake     |
| 15   | DC9451101     | 1    | Coverplate             | 155  | DC8039471   | 1    | Coil, Heat Exchanger |
| 16   | † DD6321271   | 1    | Plug, Thread Protector | 156  | DC8043646   | 2    | Hose, 5/8" ID        |
| 17   | B1007006      | 1    | Plug, Socket Hd        | 157  | DC9989647   | 1    | Cable Tie            |
| 18   | B1006006      | 1    | Plug, Socket Hd 750-16 | 158  | CB40299     | 4    | Hose Clamp           |
| 25   | ▼★DC9551920SR | 1    | Gasket, Pump Element   | 901  | DC8250006   | 1    | Air Breather         |
| 26   | CBE621028-1A  | 1    | SHCS, Hex M6 x 20      | 902  | F100096-381 | 1    | Fitting, Adapter     |

★ Included in Service Repair Seal Kit, ZA4T1K. † Use only when transporting the pump.

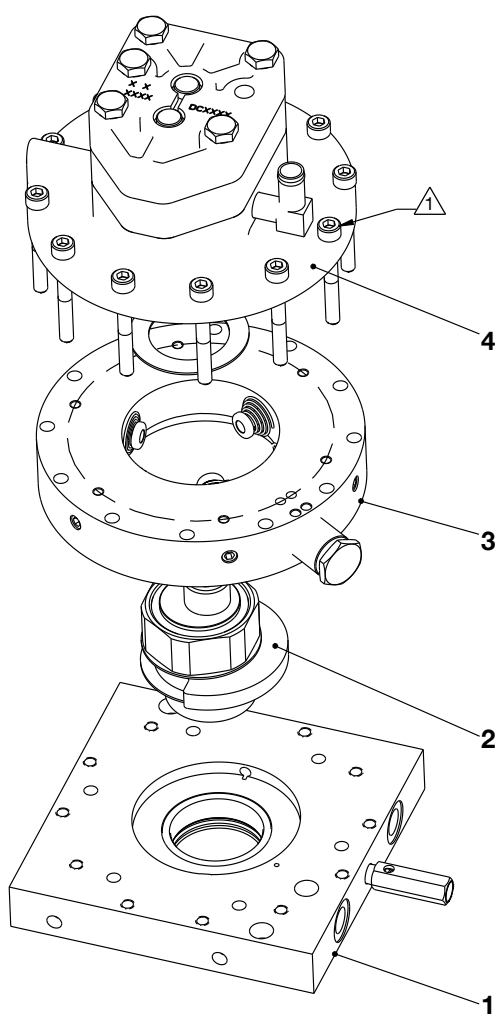
▼ Pump reservoir gasket (Fig. 5, item 37) is also included with DC9551920SR.

Figure 14: Oil Pressure Tube Assembly



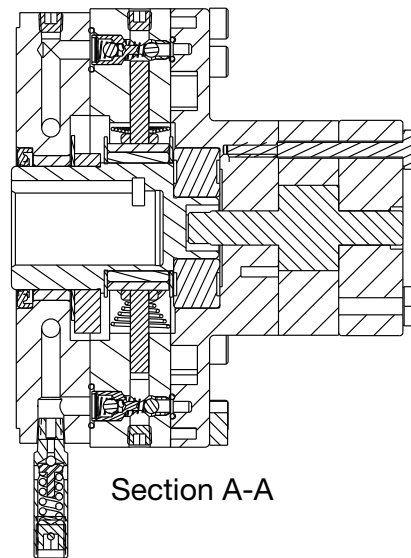
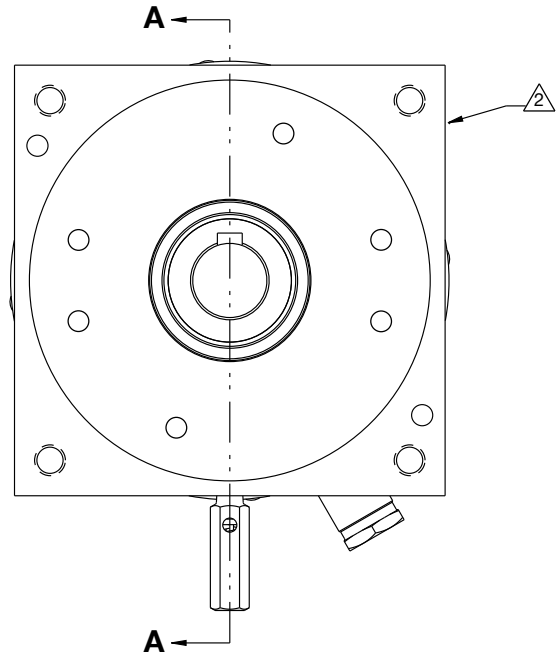
| Repair Parts List for Figure 14                |             |      |                         |
|------------------------------------------------|-------------|------|-------------------------|
| Item                                           | Part Number | Qty. | Description             |
| 11                                             | F100094-246 | 1    | Connector, Flare        |
| 21                                             | DC9173690   | 1    | Connector, Tube/Fitting |
| 22                                             | ★ B1012566  | 1    | Back-Up 0.375           |
| 23                                             | ★ B1012803  | 1    | O-Ring, Round, 0.375    |
| 24                                             | ★ DC9271167 | 1    | Gasket, Copper          |
| 27                                             | DC9663920   | 1    | Tube Assembly, Steel    |
| ★ Included in Service Repair Seal Kit, ZA4T1K. |             |      |                         |

Figure 15: Pump Element Assembly



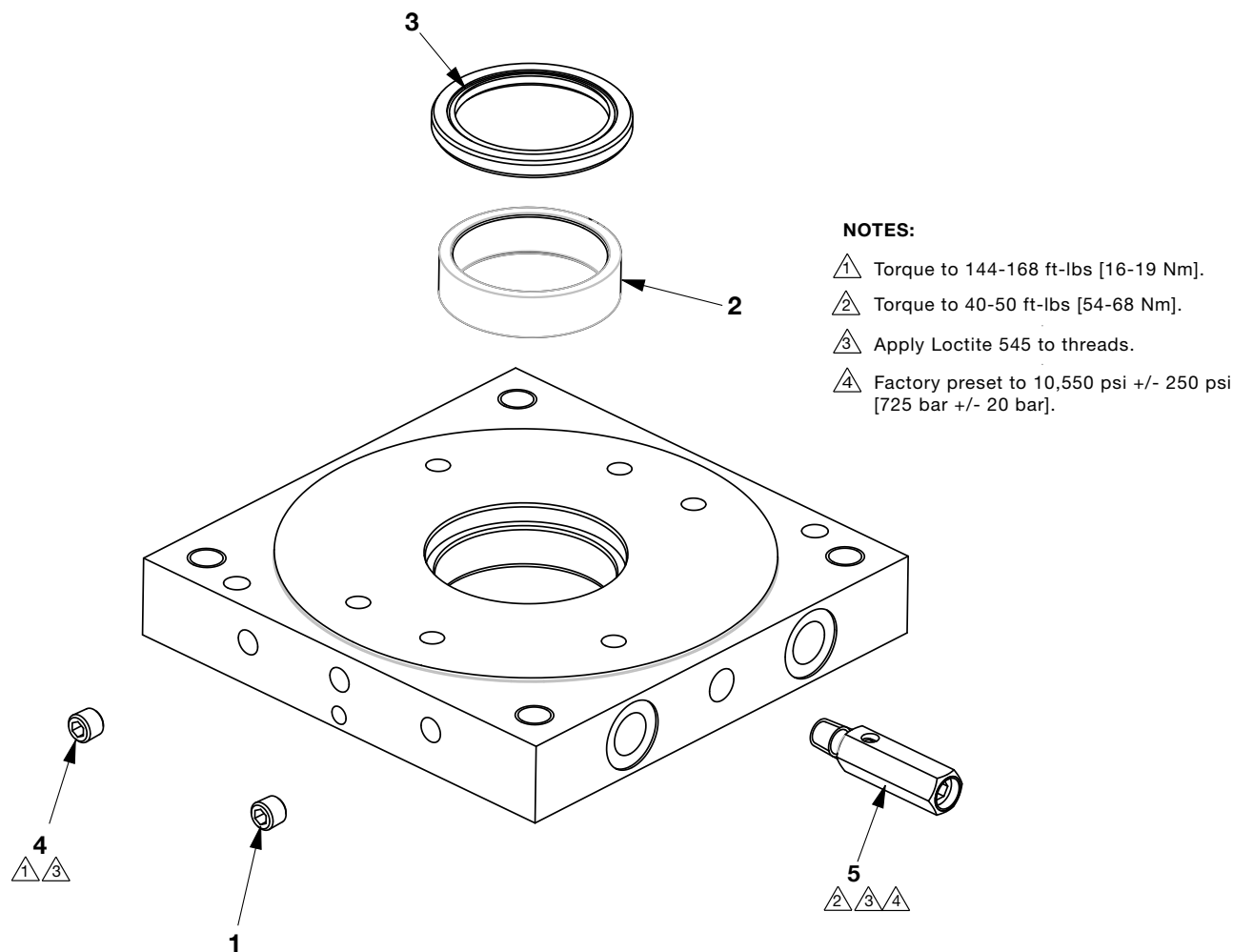
**NOTE:**

- 1 Torque to 120-144 in-lbs [13.5-16.0 Nm].
- 2 Pump element serial number and date code location.



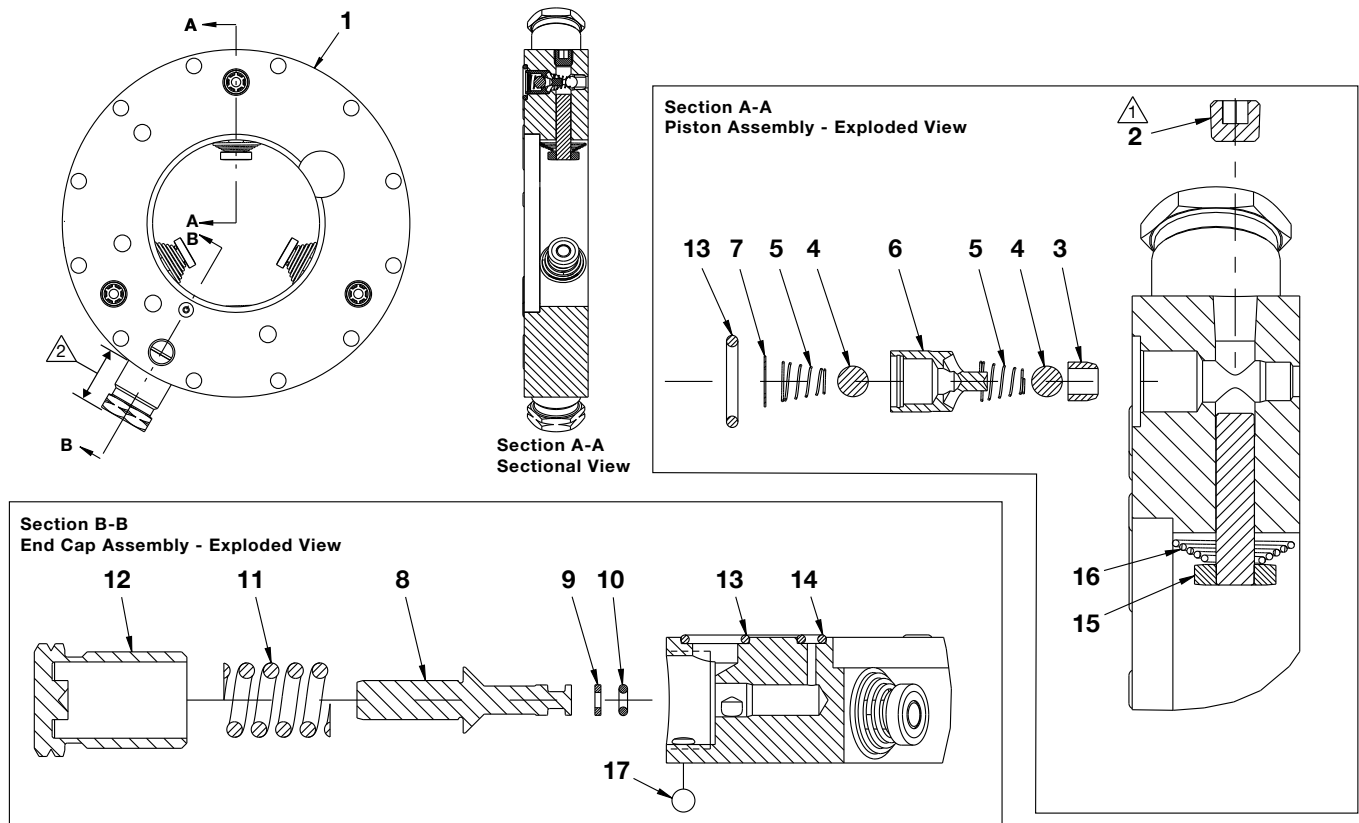
| Repair Parts List for Figure 15                             |                   |      |                      |
|-------------------------------------------------------------|-------------------|------|----------------------|
| Item                                                        | Part Number       | Qty. | Description          |
| 1                                                           | * (See Figure 16) | 1    | Top Plate            |
| 2                                                           | * (See Figure 18) | 1    | Eccentric            |
| 3                                                           | * (See Figure 17) | 1    | Piston Ring Assembly |
| 4                                                           | * (See Figure 19) | 1    | Gear Pump Assembly   |
| * Included in Pump Element Replacement Kit, U132605900-4SR. |                   |      |                      |

Figure 16: Top Plate Assembly



| Repair Parts List for Figure 16 |             |      |                    |
|---------------------------------|-------------|------|--------------------|
| Item                            | Part Number | Qty. | Description        |
| 1                               | DC8105101   | 1    | Top Plate          |
| 2                               | DC9026155   | 1    | Needle Bearing     |
| 3                               | DC9027776   | 1    | Seal, Oil Lip      |
| 4                               | A1006245    | 2    | Plug, Flush Hex 27 |
| 5                               | DA5999900SR | 1    | Relief Valve       |

Figure 17: Piston Ring Assembly



**NOTE:**

① Torque to 144-168 in-lbs [16.3-19.0 Nm].

② Set height of end cap bypass (ITEM 12) to 0.85 inch  $\pm$ 0.01 [21.6 mm  $\pm$ 0.2].

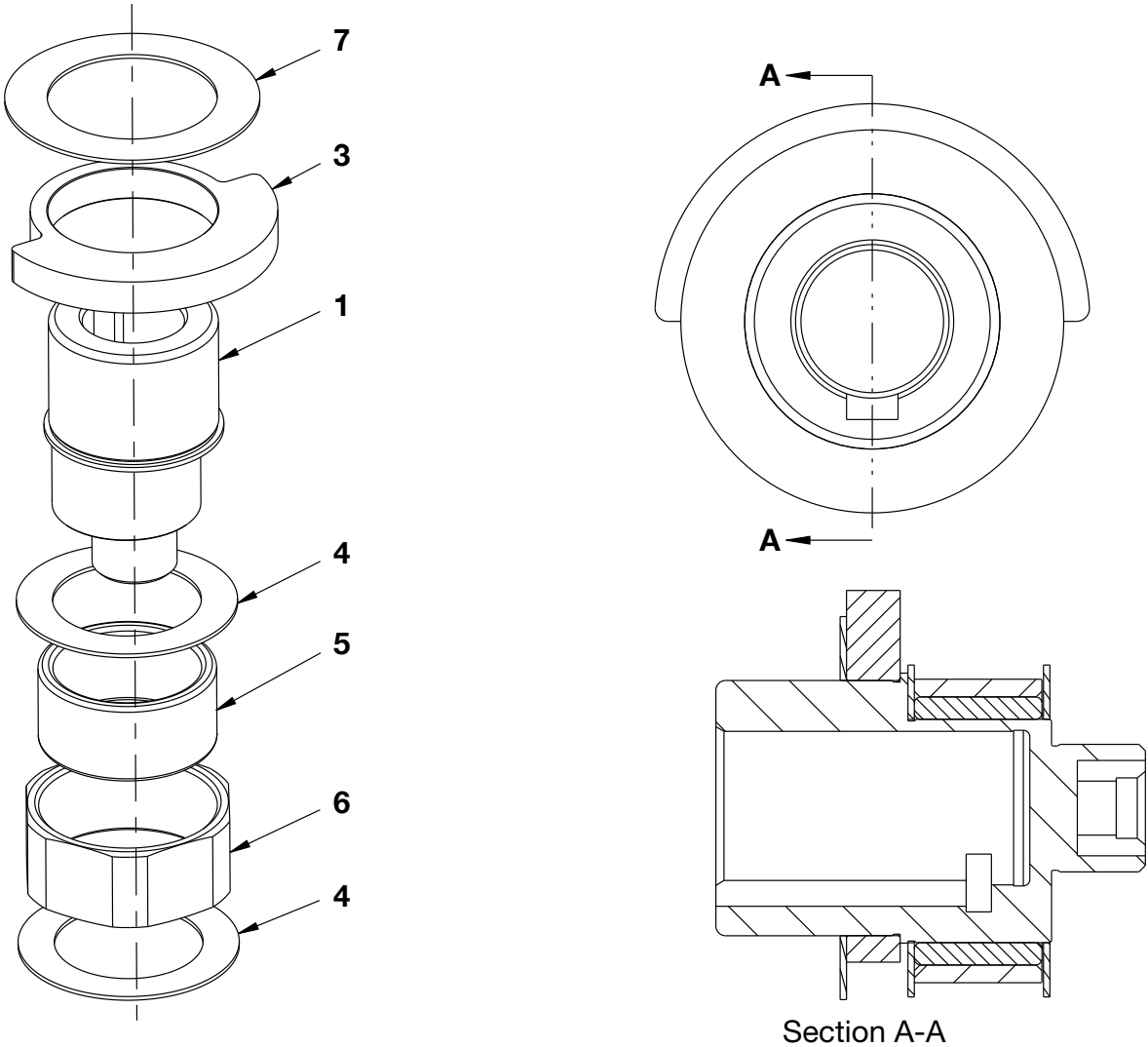
**Repair Parts List for Figure 17**

| Item | Part Number | Qty. | Description               | Item | Part Number  | Qty. | Description       |
|------|-------------|------|---------------------------|------|--------------|------|-------------------|
| 1    | DC9221101   | 1    | Piston Ring               | 10   | ● B1006803   | 1    | O-Ring, 0.125" OD |
| 2    | A1006245    | 3    | Plug, Flush Hex 27 Teflon | 11   | DC394110     | 1    | Spring, Bypass    |
| 3    | ■ BSS5358D  | 3    | Piston Seat, Lower        | 12   | DC9208020    | 1    | End Cap, Bypass   |
| 4    | ■ B1005016  | 6    | Ball, 0.188 Steel         | 13   | ● ■ B1013203 | 4    | O-Ring, Small     |
| 5    | ■ BSS5809D  | 6    | Spring, Conical           | 14   | ● B1005203   | 1    | O-Ring, Large     |
| 6    | ■ BSS5357D  | 3    | Piston Seat, Upper        | 15   | DC9244920    | 1    | Piston Assembly   |
| 7    | ■ BSS5356D  | 3    | Retaining Ring            | 16   | ■ BSS5509D   | 3    | Spring            |
| 8    | DC9292051   | 1    | Piston, Bypass            | 17   | ● DC9293016  | 3    | Ball, Nylon 3/16" |
| 9    | ● B1006564  | 1    | Back-up Ring, Split       |      |              |      |                   |

● Included in Seal Kit, ZRK.

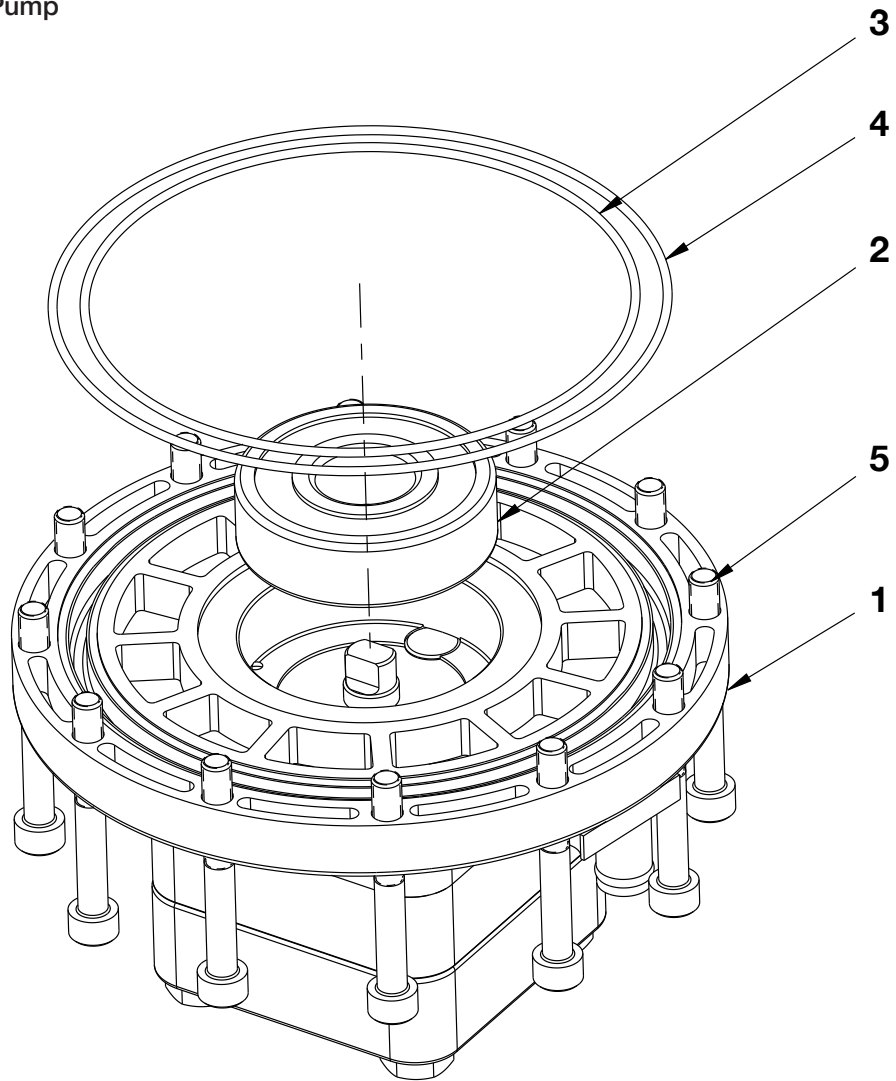
■ Included in Piston Check Kit, ZRKS.

Figure 18: Eccentric Assembly



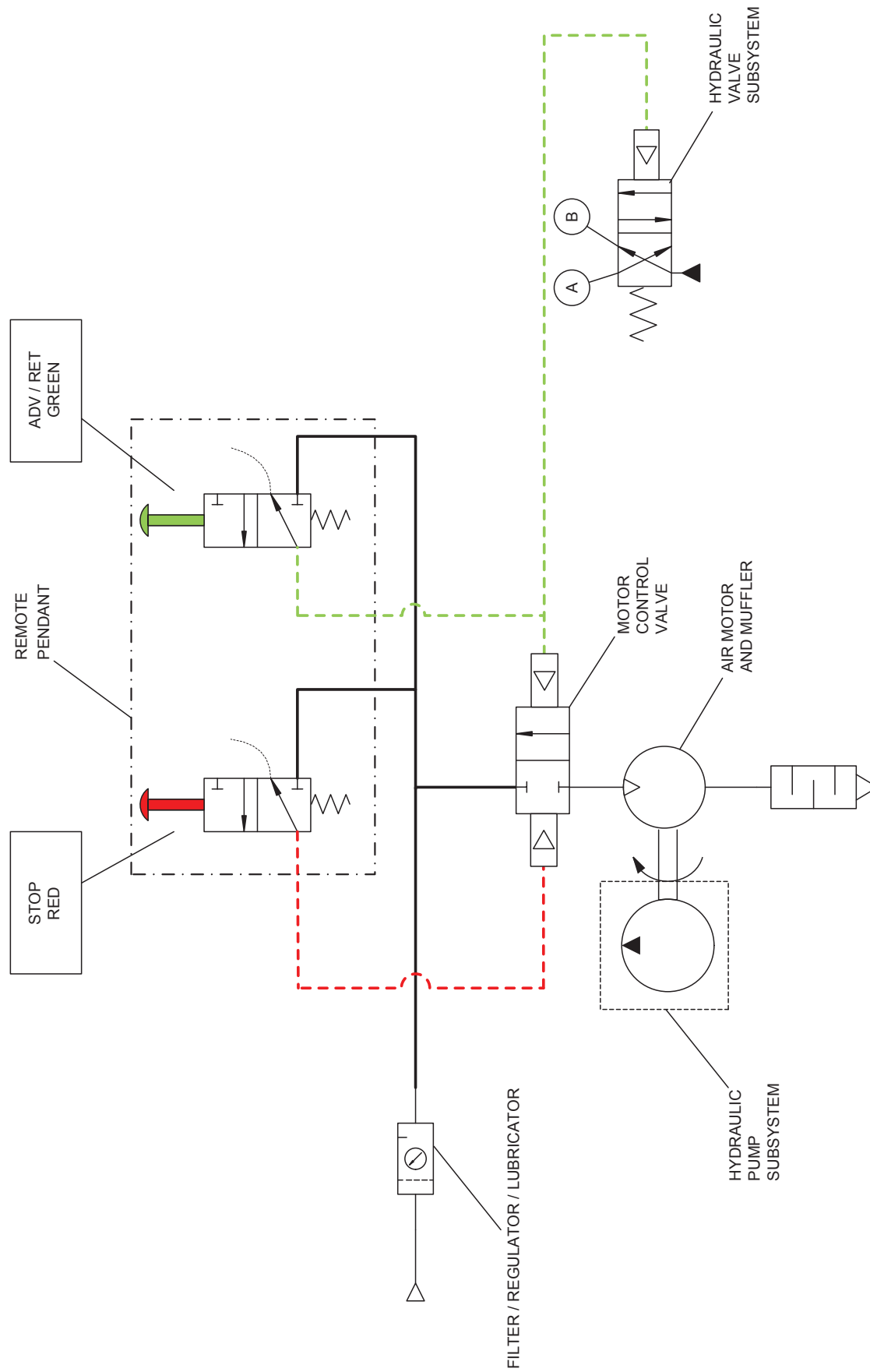
| Repair Parts List for Figure 18                           |             |      |                  |
|-----------------------------------------------------------|-------------|------|------------------|
| Item                                                      | Part Number | Qty. | Description      |
| 1                                                         | ► DC9214537 | 1    | Eccentric        |
| 3                                                         | ► DC9023101 | 1    | Balance Plate    |
| 4                                                         | ► BSS4725D  | 2    | Ring             |
| 5                                                         | ► DC4107155 | 1    | Needle Bearing   |
| 6                                                         | ► DC4328350 | 1    | Hex Cam          |
| 7                                                         | ► DD1277108 | 1    | Washer, Locating |
| ► Included in Induction Motor Eccentric Kit, DC9215900SR. |             |      |                  |

Figure 19: Gear Pump



| Repair Parts List for Figure 19                             |               |      |                       |
|-------------------------------------------------------------|---------------|------|-----------------------|
| Item                                                        | Part Number   | Qty. | Description           |
| 1                                                           | ▲ DC9296920   | 1    | Pump, Gear            |
| 2                                                           | ▲ DC9219155   | 1    | Bearing, Ball         |
| 3                                                           | ●▲ B1400503   | 1    | O-Ring, Round (small) |
| 4                                                           | ●▲ B1402503   | 1    | O-Ring, Round (large) |
| 5                                                           | ▲ CCA633028-1 | 12   | SHCS, Hex M6          |
| ▲ Included in Gear Pump 202 Service Repair Kit, DC9296920SR |               |      |                       |
| ● Included in Seal Kit, ZRK.                                |               |      |                       |

Figure 20: Air System Schematic



NOTES



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