ENERPAC

# Repair Parts Sheet

## ZA4T
## Air Torque Wrench Pump

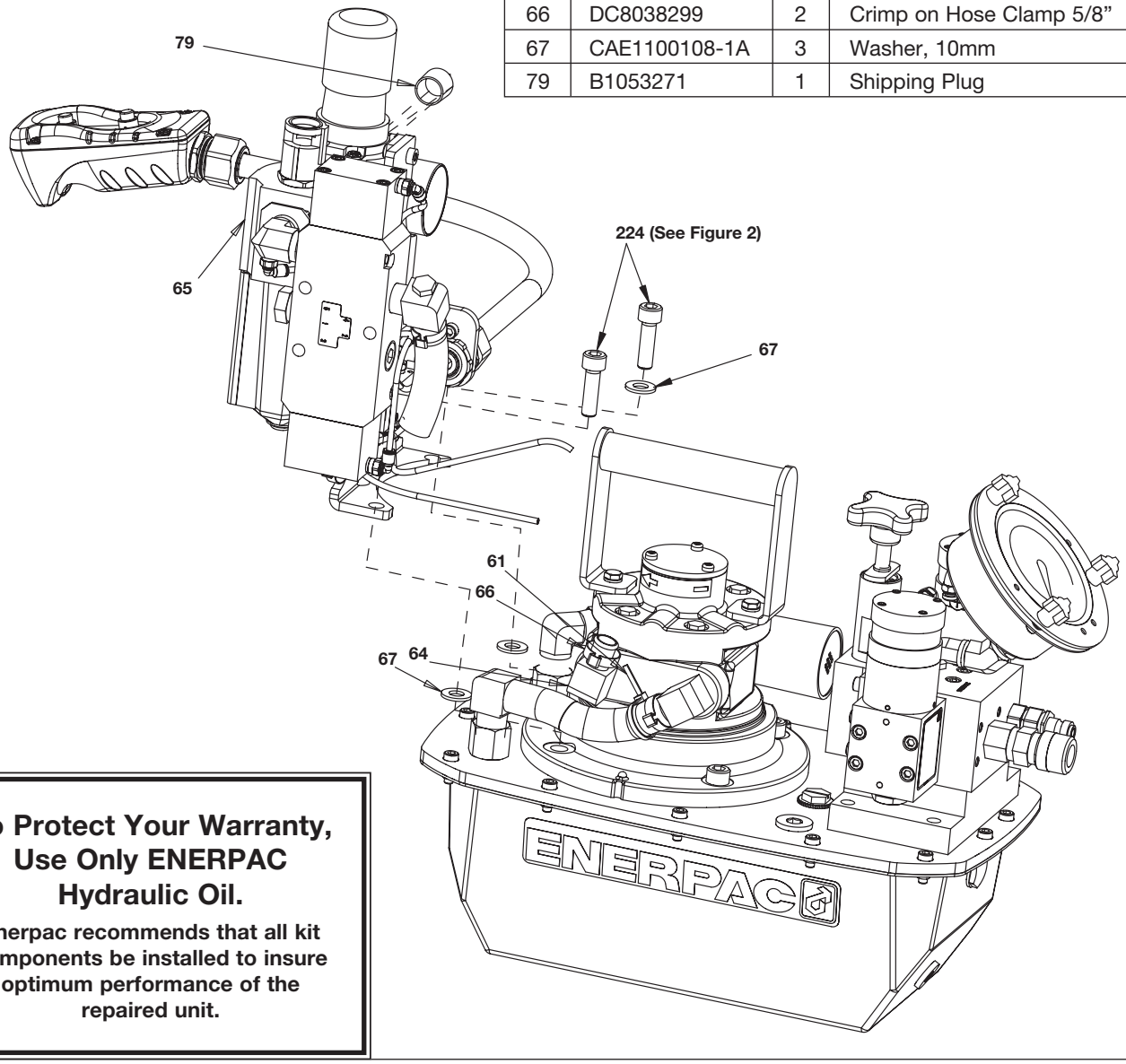
**L2673 Rev. G 02/2020** **For Date Codes Beginning with the Letter "A"**

**This Repair Parts Sheet covers the following pump models. For Valve Part Sheet see corresponding valve model.**

| Pump Model | Valve Model | Valve Repair Part Sheet Number | Pump Model | Valve Model | Valve Repair Part Sheet Number |
|---|---|---|---|---|---|
| ZA4204TX-E | VA42A (DC6920950) | L2617 | ZA4208TX-Q | VA42QM (DC6923950) | L2617 |
| ZA4204TX-Q | VA42AM (DC6921950) | L2617 | ZA4204TX-ER | VA42E (DC6924950) | L2617 |
| ZA4208TX-E | VA42Q (DC6922950) | L2617 | ZA4204TX-QR | VA42EM (DC6925950) | L2617 |

**Repair Parts List for Figure 1**

| Item | Part Number | Qty. | Description |
|---|---|---|---|
| 61 | DC9876647 | 2 | Black Cable Tie, 6" |
| 64 | DC8036038 | 1 | Elbow 5/8 Barbed to 1/2 NPT |
| 65 | DD1356900SR | 1 | Air Logic Assembly. See Figure 6. |
| 66 | DC8038299 | 2 | Crimp on Hose Clamp 5/8" |
| 67 | CAE1100108-1A | 3 | Washer, 10mm |
| 79 | B1053271 | 1 | Shipping Plug |




**To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.**

**Enerpac recommends that all kit components be installed to insure optimum performance of the repaired unit.**

Figure 1, Mounting Arrangement, Air Logic Assembly

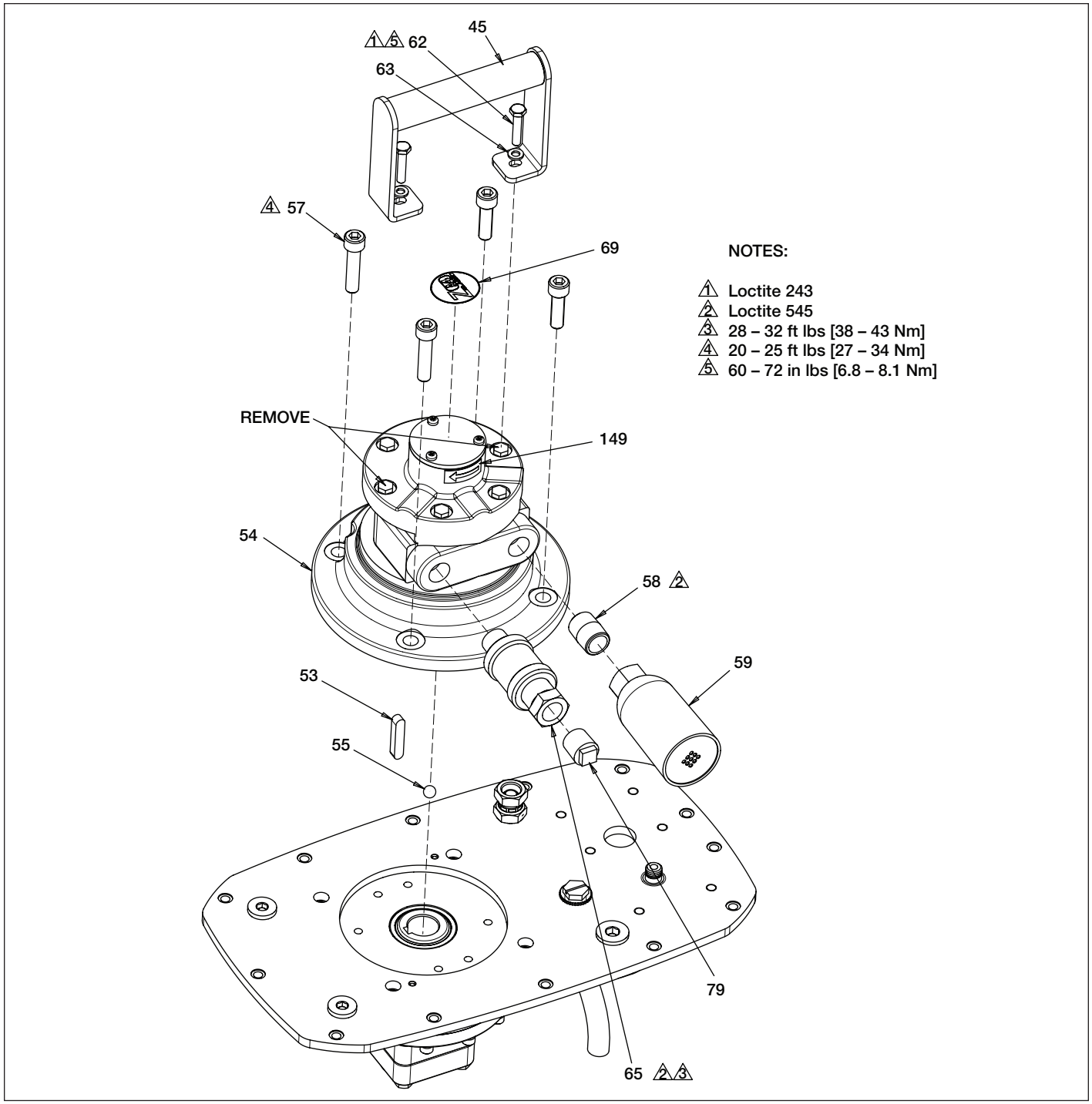



Figure 2, Air Motor Assembly

**Repair Parts List for Figure 2**

| Item | Part Number | Qty. | Description | Item | Part Number | Qty. | Description |
|---|---|---|---|---|---|---|---|
| 45 | DC8056070 | 1 | Handle ZA4 | 62 | ❖ B1461046X | 2 | 0.25-28X1.25 Hex Head Screw |
| 53 | DD4308251 | 1 | Hardened Motor Key | | ❖ CBE625046-1A | 2 | M6 x 30mm Hex Head Screw |
| 54 | DC8030900SR | 1 | Air Motor Kit | 63 | CAE1060108-1A | 2 | 6MM Washer |
| | | | (includes 53, 55 & 57) | 65 | DC8103662 | 1 | Air Valve |
| 55 | 44968 | 1 | Rubber Ball 3/8" 70 Duro. | 69 | DC8099026 | 1 | Decal ZA Class |
| 57 | CBE1027028-1A | 4 | M10X35 SHCS | 79 | B1053271 | 1 | 1/2 NPT Shipping Plug |
| 58 | DC8097095 | 1 | 1/2 NPT Short Pipe | 149 | CJ193026 | 1 | Rotation Decal |
| 59 | DC8032116 | 1 | Air Muffler | | | | |

❖ Item 62: Screw holes on pump housing may be either imperial or metric thread. Use the correct screw for your pump.

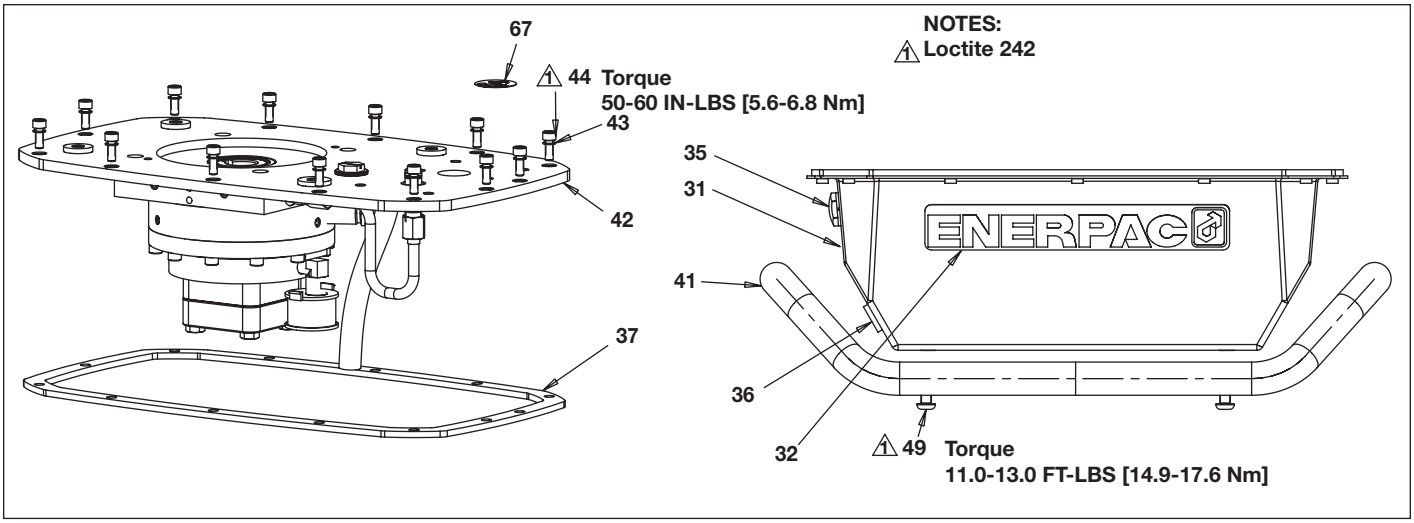



Figure 3, Reservoir Assembly

| Repair Parts List for Figure 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Item** | **Part Number** | **Qty.** | **Description** | **Item** | **Part Number** | **Qty.** | **Description** |
| 31 | DC9379025SR | 1 | Reservoir 4L (inc. 32, 35 & 37) | 37 | ★DC9551920 | 1 | Reservoir & MPE Gasket |
| | | | | 41 | DC9590920 | 1 | Skid Bar 4L & 8L wo/ Heat Ex. |
| 31 | DC8136025SR | 1 | Reservoir 8L (inc. 32, 35 & 37) | 42 | Basic Assy. | | See Fig. 4 |
| | | | | 43 | ★S3037 | 13 | Copper Gasket |
| 32 | DC9596026 | 2 | Reservoir Decal | 44 | CBE619028-1A | 13 | SHCS M6-1x16 |
| 35 | DC85900SR | 1 | Sight Glass 4L & 8L | 49 | CBE817028-1E | 4 | BHCS M8x12 |
| 36 | DC8249006 | 1 | Plug SAE#8 (4L & 8L) Magnet | 67 | DC9920026 | 1 | Decal, Read Instruction |
| ★ Items included in Seal Kit ZE3K. | | | | | | | |

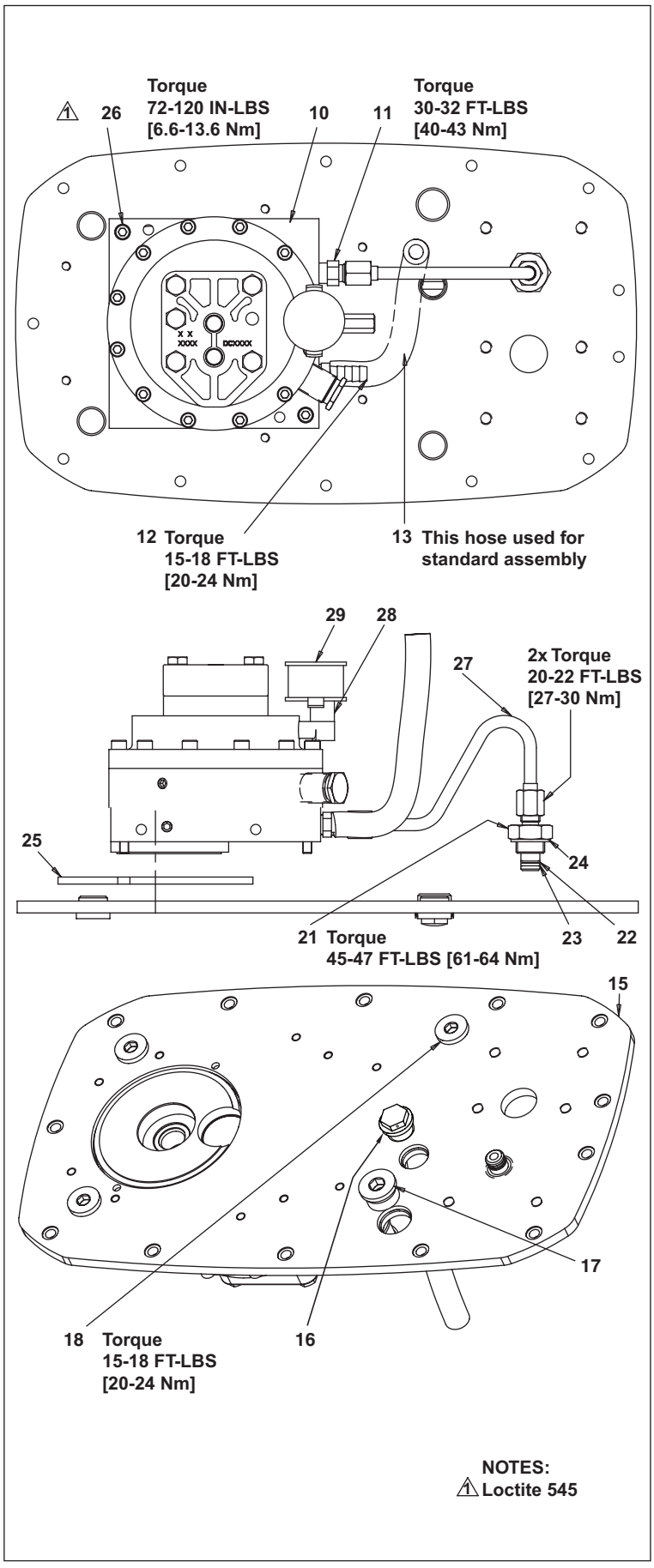



Figure 4, Basic Assembly

| Repair Parts List for Figure 4 | | | |
|---|---|---|---|
| **Item** | **Part Number** | **Qty.** | **Description** |
| 10 | Pump Element | 1 | see RPS L2596 for MPE |
| 11 | F100094-246 | 1 | Fitting 5-4 FTX-S |
| 12 | F100097-16 | 1 | Fitting, Standard Pump |
| 13 | DC9335646 | 1 | Hose, Bypass 8” |
| 15 | DC9451101 | 1 | Cover Plate ZE |
| 16 | DC9558920 | 1 | Breather Assembly |
| 17 | B1007006 | 1 | Plug SAE #10 |
| 18 | A1009245 | 1 | 3/8 Flush Plug |
| 21 | DC9173690 | 1 | Connector Fitting |
| 22 | ★B1012564 | 1 | Back-up |
| 23 | ★B1012203 | 1 | O-Ring |
| 24 | ★DC9271167 | 1 | Copper Gasket |
| 25 | ★DC9551920 | 1 | RES and MPE Gasket |
| 26 | CBE621028-1A | 2 | SHCS M6x20 |
| 27 | DC9663920 | 1 | Tube ASM Steel ZE Pump |
| 28 | DC9600268 | 1 | Intake Tube 1.6” 4L and 8L |
| 29 | DC9178118 | 1 | Intake Filter |
| ★Items included in Seal Kit ZE3K. | | | |

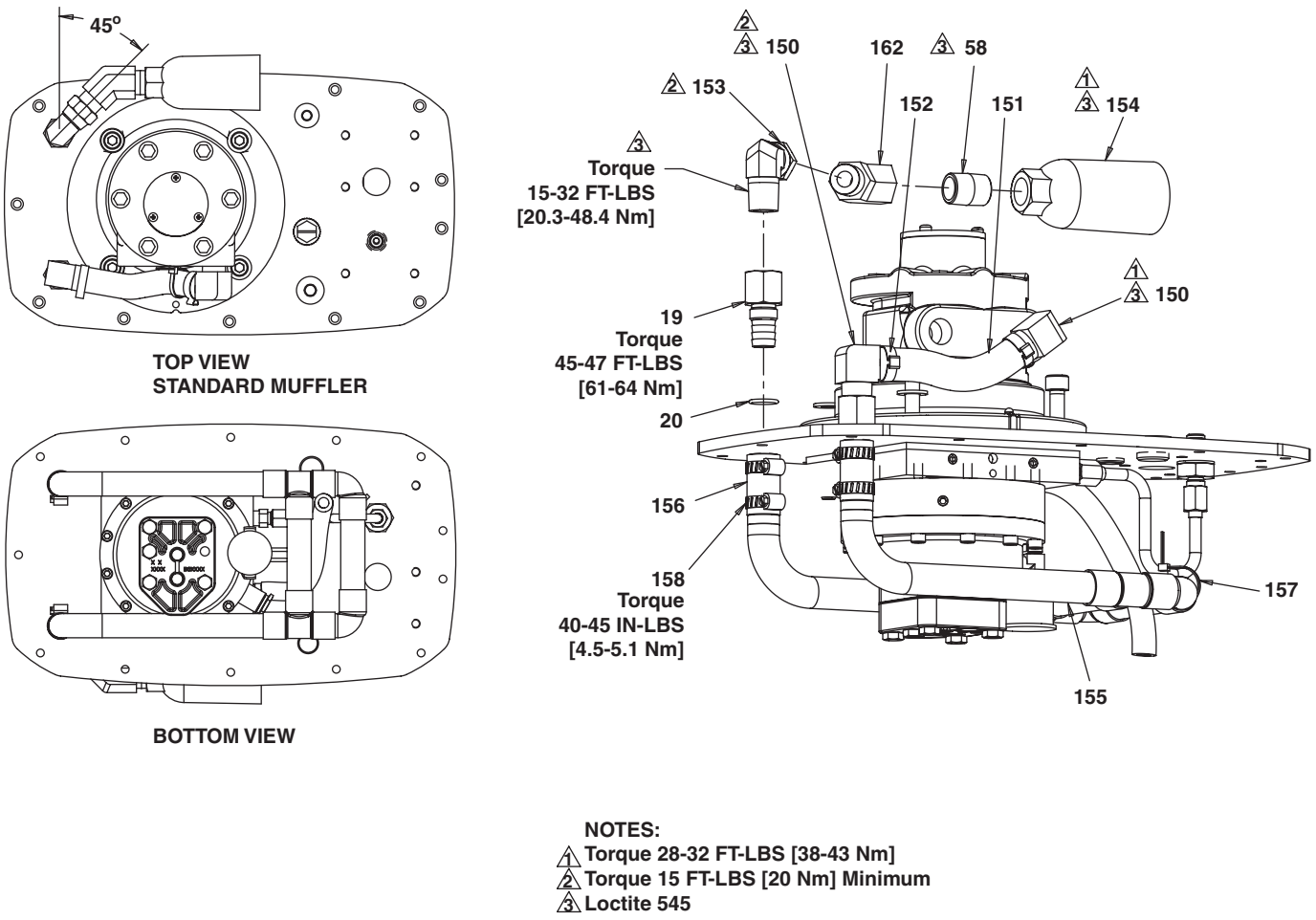



Figure 5, Heat Exchanger

| Repair Parts List for Figure 5 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Item** | **Part Number** | **Qty.** | **Description** | **Item** | **Part Number** | **Qty.** | **Description** |
| 19 | DC8035038 | 2 | Adapter | 154 | DC8032116 | 1 | Muffler, Parker |
| 20 | B1908503 | 2 | O-Ring BUNA-N | 155 | DC8039471 | 1 | Heat Exchanger Coil |
| 58 | DC8097095 | 1 | 1/2 NPT Short Pipe | 156 | DC8043646 | 2 | Hose 5/8 ID |
| 150 | DC8036038 | 2 | Elbow 5/8 Barbed to 1/2 NPT | 157 | DC9989647 | 1 | Cable Tie 12.5” |
| 151 | DC8046646 | 1 | Hose 5/8 ID 4.9” | 158 | CB40299 | 4 | Hose Clamp |
| 152 | DC8038299 | 2 | Hose Clamp 5/8” | 162 | DA1235095 | 1 | Fitting 1/2 NPT |
| 153 | DC8126095 | 1 | Elbow 1/2 NPT | | | | |

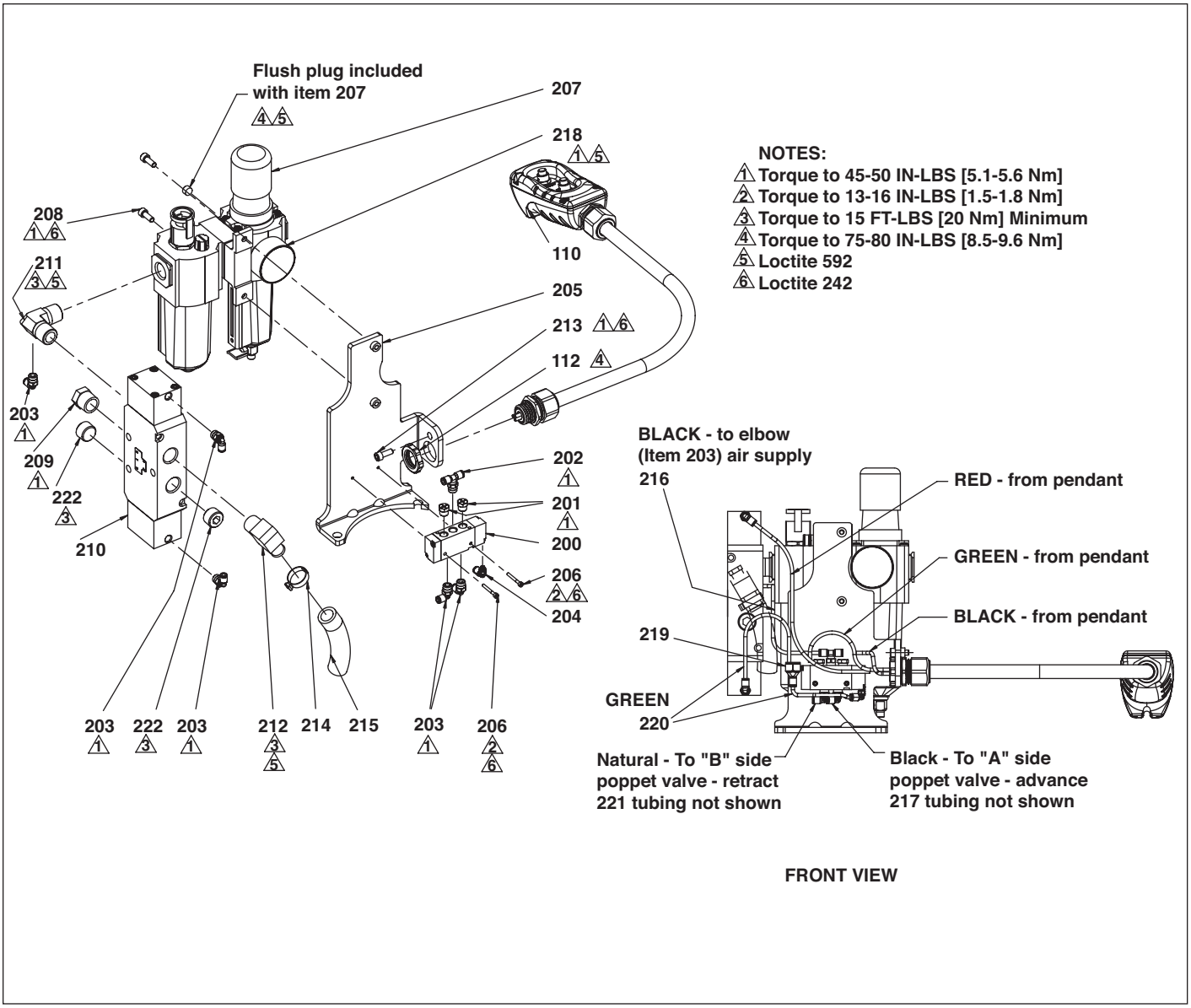



Figure 6, Air Logic Assembly

| Repair Parts List for Figure 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Item** | **Part Number** | **Qty.** | **Description** | **Item** | **Part Number** | **Qty.** | **Description** |
| 110 | DC9948900SR | 1 | Air Pendant Assy (see Fig. 7) | 212 | DC8036038 | 1 | Elbow, 5/8 Barbed - 1/2 NPT |
| 112 | DC9683021 | 1 | Locking Nut 25mm | 213 | CBE6150028-1A | 1 | M6 x 10mm SHCS |
| 200 | DC8064660 | 1 | Air Directional Valve | 214 | DC8038299 | 1 | Hose Clamp 5/8” |
| 201 | DC352118 | 2 | Vent Pug 1/8 NPT | 215 | DC8045646 | 1 | Hose 5/8” ID x 3.7” |
| 202 | DC8171097 | 1 | Tee 1/8 x 5/32 | 216 | DC8095268 | 1 | Tubing 5/32 x 7.3” Black |
| 203 | DC8170097 | 5 | Elbow 1/8 x 5/32 | 217 | DC8096268 | 1 | Tubing 5/32 x 18” Black (not shown) |
| 204 | DC8169097 | 1 | Elbow #10 x 5/32 | | | | |
| 205 | DC8042111 | 1 | Bracket | 218 | DC8101223 | 1 | Gauge 0-160 PSI |
| 206 | CBE323028-1A | 2 | M3 x .5 x 25mm SHCS | 219 | DC3574097 | 1 | Y Fitting |
| 207 | DC8033118 | 1 | Filter | 220 | DC8124268 | 2 | Tubing 5/32 x 4.5” Green |
| 208 | CBE619028-1A | 2 | M6-1 x 16 SHCS | 221 | DC8125268 | 1 | Tubing 5/32 x 18” Natural (not shown) |
| 209 | F100118-20 | 1 | Breather Vent | | | | |
| 210 | DC8109662 | 1 | Air Vent | 222 | A1010245 | 2 | 1/2 NPT Flush Plug |
| 211 | DC8086095 | 1 | Elbow | | | | |

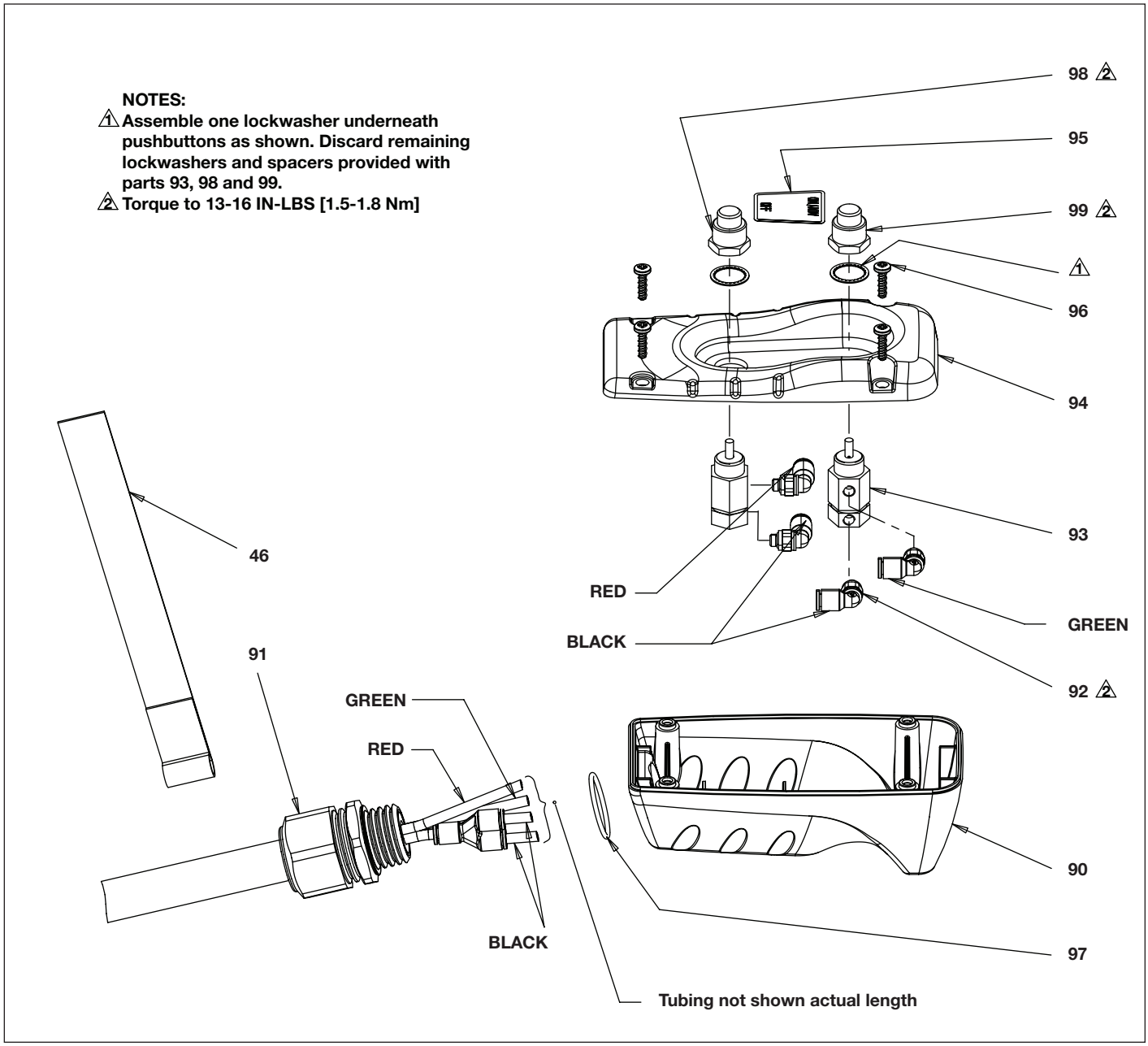



Figure 7, Pendant Assembly

| Repair Parts List for Figure 7 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Part Number | Qty. | Description | Item | Part Number | Qty. | Description |
| 46 | DA7570217 | 1 | Cord Strap | 95 | DC8127026 | 1 | Pendant Decal |
| 90 | DC9991424 | 1 | Lower Pendant Housing | 96 | DC9428008 | 4 | Screw #8 x 1/2 |
| 91 | DC1400646 | 1 | Air Tube | 97 | B1227503 | 1 | O-Ring |
| 92 | DC8060097 | 4 | Elbow #10 x 5/32 | 98 | DC3578379 | 1 | Push Button Red |
| 93 | DC8059379 | 2 | Push Button Valve | 99 | DC3577379 | 1 | Push Button Green |
| 94 | DC8122424 | 1 | Upper Pendant Housing | | | | |

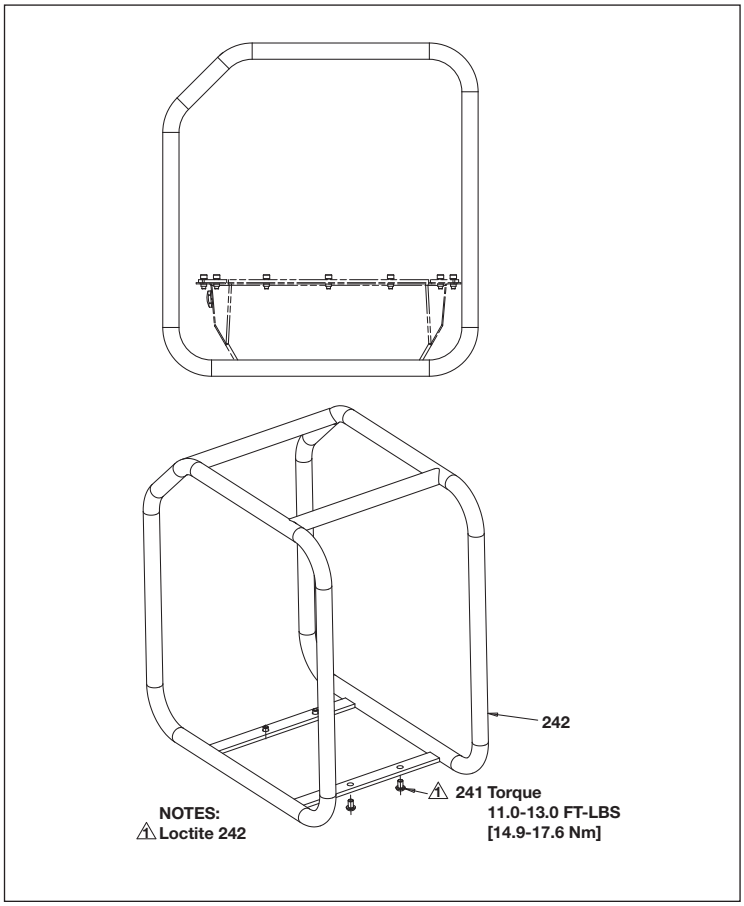



**Figure 8, Rollbar Assembly ZRC-04**

| Repair Parts List for Figure 8 | | | |
|---|---|---|---|
| **Item** | **Part Number** | **Qty.** | **Description** |
| 241 | CBE817028-1E | 4 | BHCS M8x12 |
| 242 | DC8040920 | 1 | Roll Bar Assembly |
| These parts are included in Roll Bar Kit ZRC-04. | | | |

**TROUBLESHOOTING:**

Only qualified hydraulic technicians should service the pump or system components. A system failure may or may not be the result of a pump malfunction. To determine the cause of the problem, the complete system must be included in any diagnostic procedure.

| TROUBLESHOOTING GUIDE | | |
|---|---|---|
| **PROBLEM** | **POSSIBLE CAUSE** | **REPAIR ACTION** |
| Pump will not start | No air to pump | Make sure air is not shut off to pump<br>Check air line for blockage |
| | Low air pressure | Check air pressure setting at air pressure regulator |
| | Low air SCFM | Make sure air compressor has enough SCFM to operate pump |
| | Air valve not working | Replace air valve |
| | Air motor not working | Replace air motor |
| Pump fails to build pressure | External leak in system | Repair any external components that are leaking |
| | Internal leak in pump | See RPS L2596 for basic pump assembly |
| | Internal leak in valve | See RPS for specific control valve as listed on valve chart |
| | Internal leak in system component | Repair system component |
| Pump builds less than full pressure | Relief valve set to low | Adjust relief valve |
| | External leak in system | Repair leak |
| | Internal leak in pump | Back pressure test, locate and repair leak (See RPS L2596) |
| | Internal leak in valve | See RPS for specific control valve as listed on valve chart |
| | Internal leak in system component | Repair system component |
| Pump builds full pressure, but load does not move | Load greater than cylinder | Higher capacity cylinder is needed to lift load |
| | capacity at full pressure<br>Flow to cylinder blocked | Check system components |

NOTES:

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