

L2673 Rev. F 11/2017

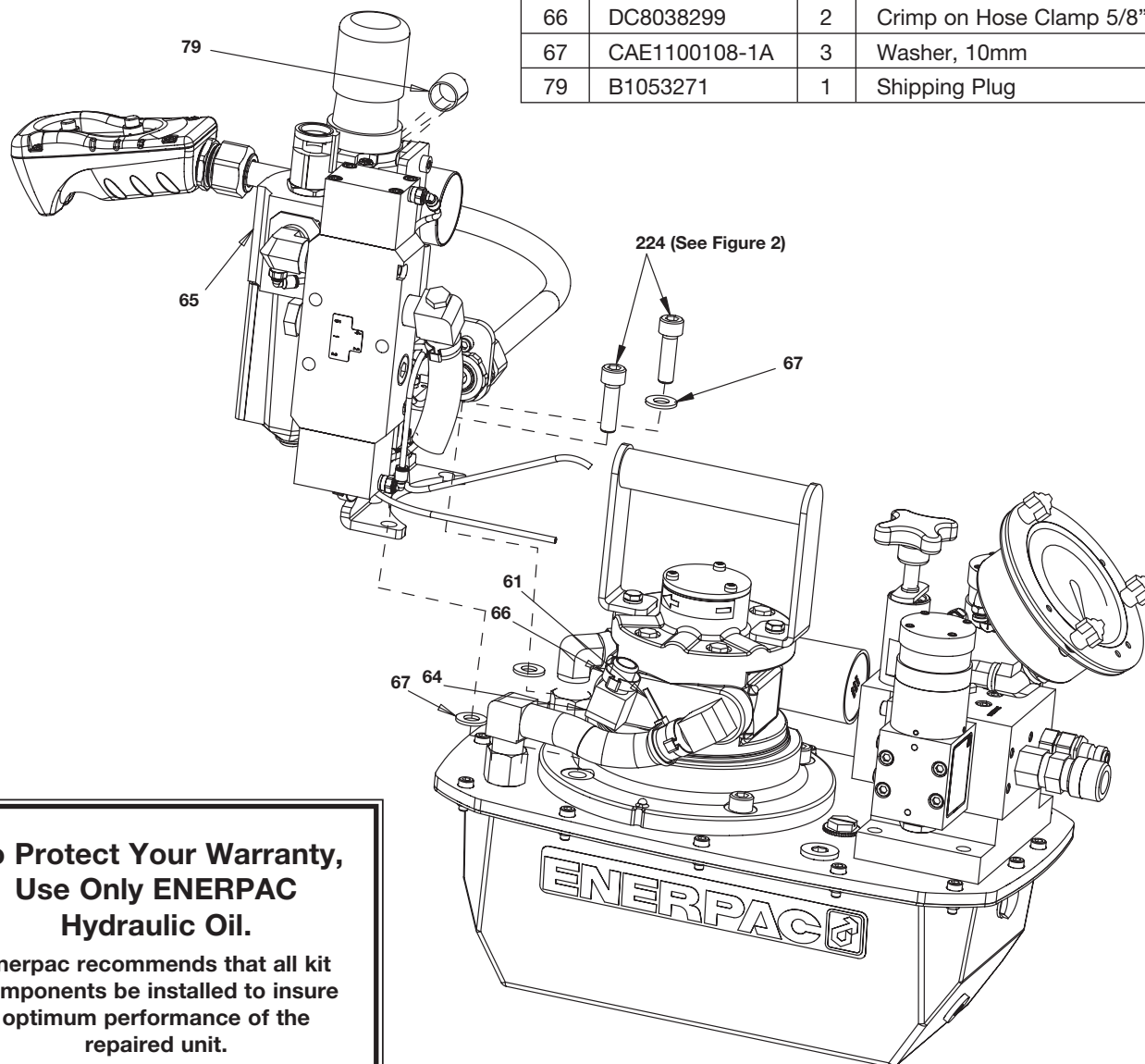
For Date Codes Beginning with the Letter "B"

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

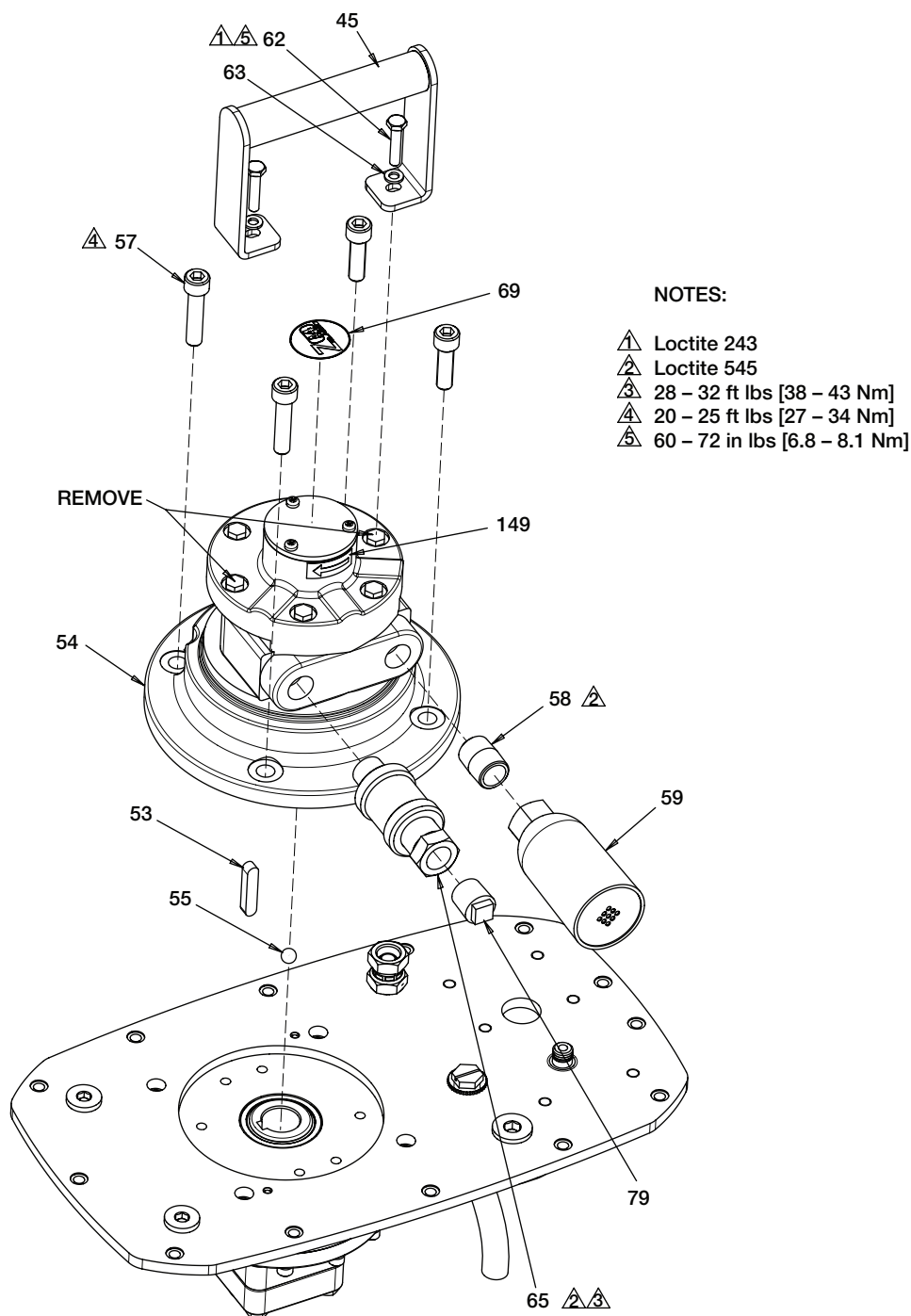


Figure 2, Air Motor Assembly

**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<br>(includes 53, 55 & 57) | 63   | CAE1060108-1A  | 2    | 6MM Washer                  |
| 55   | 44968         | 1    | Rubber Ball 3/8" 70 Duro.               | 65   | DC8103662      | 1    | Air Valve                   |
| 57   | CBE1027028-1A | 4    | M10X35 SHCS                             | 69   | DC8099026      | 1    | Decal ZA Class              |
| 58   | DC8097095     | 1    | 1/2 NPT Short Pipe                      | 79   | B1053271       | 1    | 1/2 NPT Shipping Plug       |
| 59   | DC8032116     | 1    | Air Muffler                             | 149  | CJ193026       | 1    | Rotation Decal              |

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

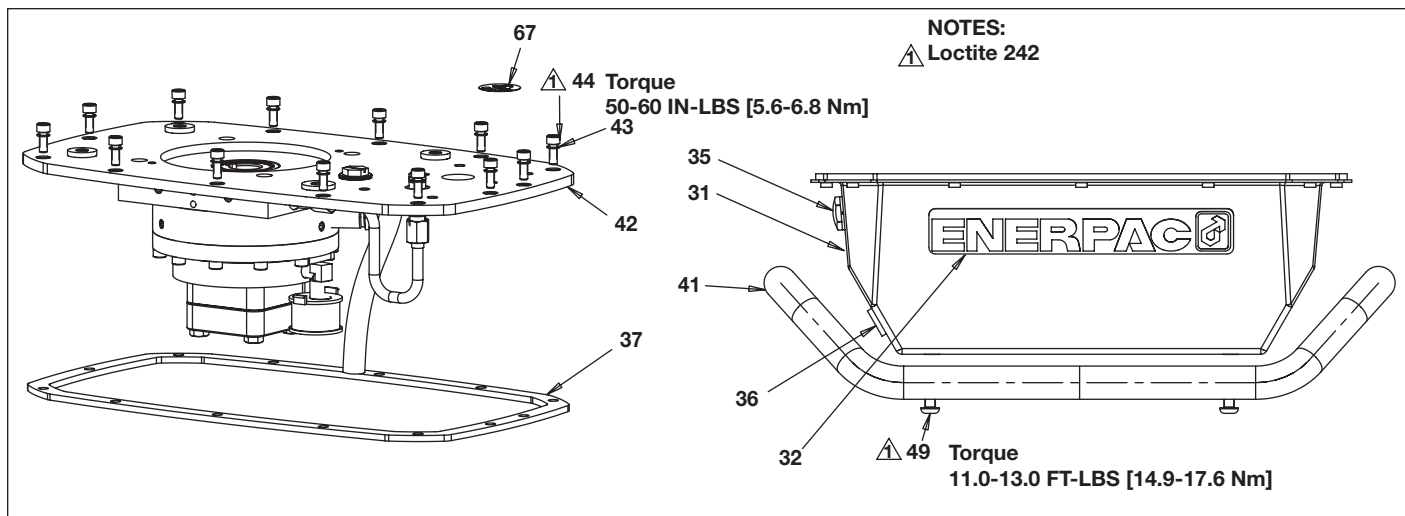


Figure 3, Reservoir Assembly

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

★ Items included in Seal Kit ZE3K.

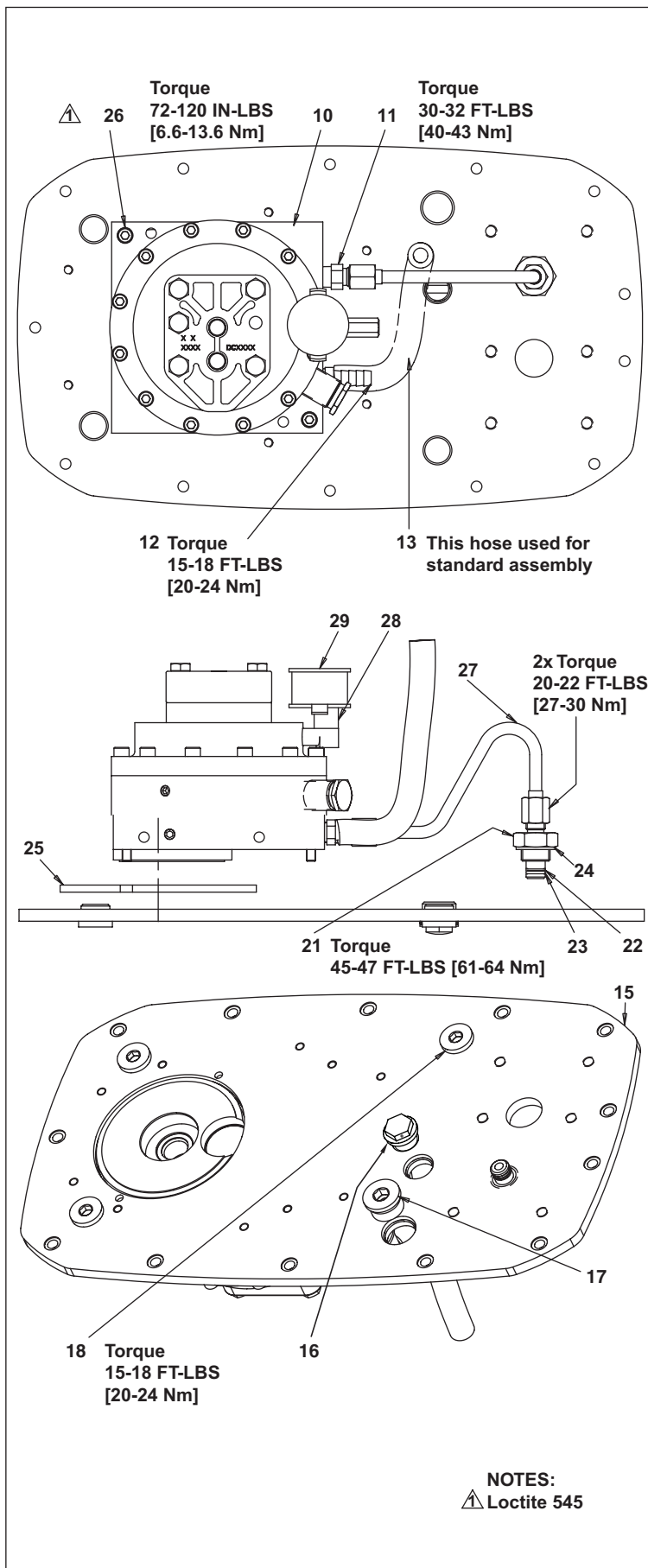


Figure 4, Basic Assembly

| 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. |              |      |                            |

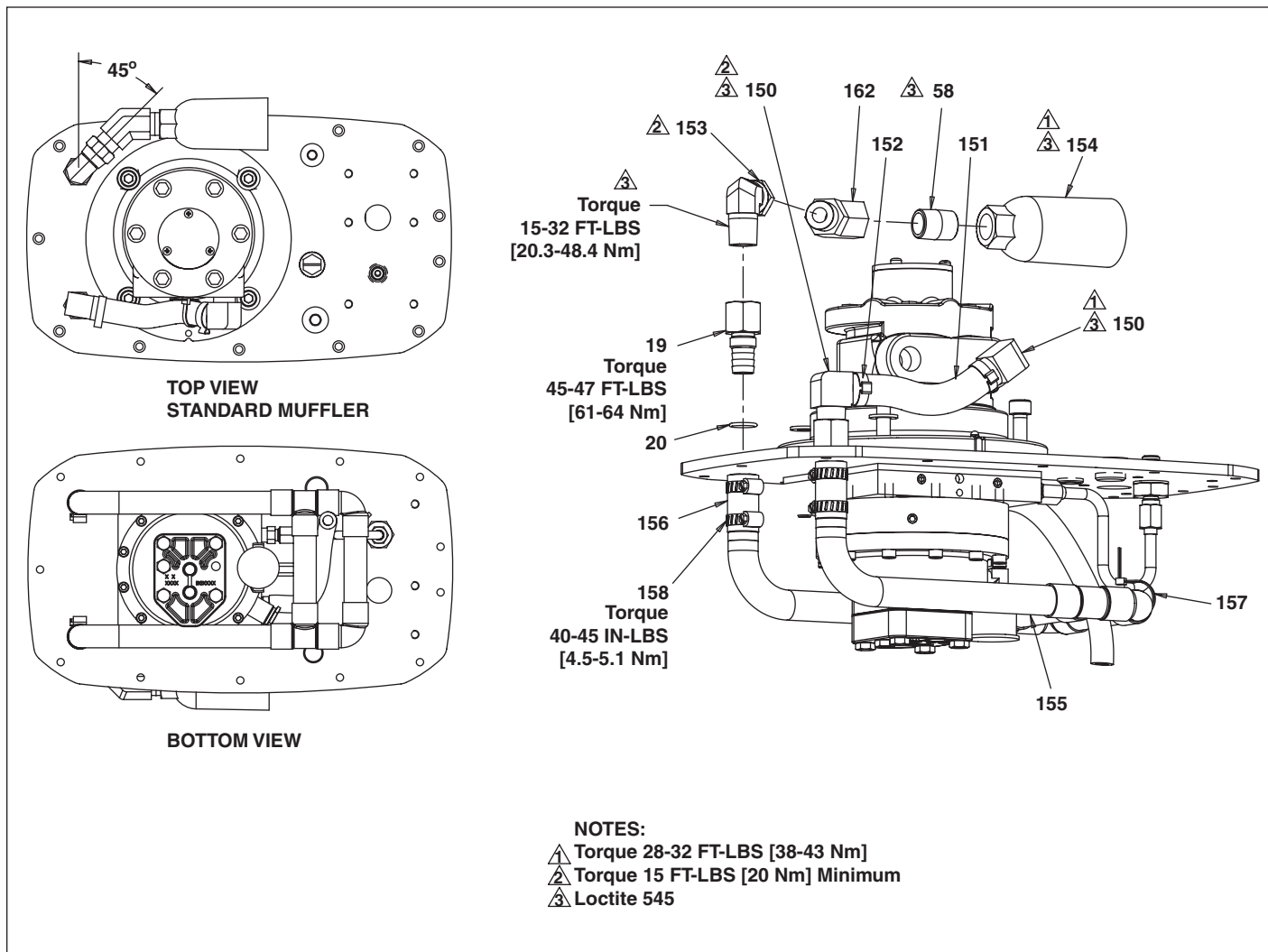


Figure 5, Heat Exchanger

| 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               |      |             |      |                     |

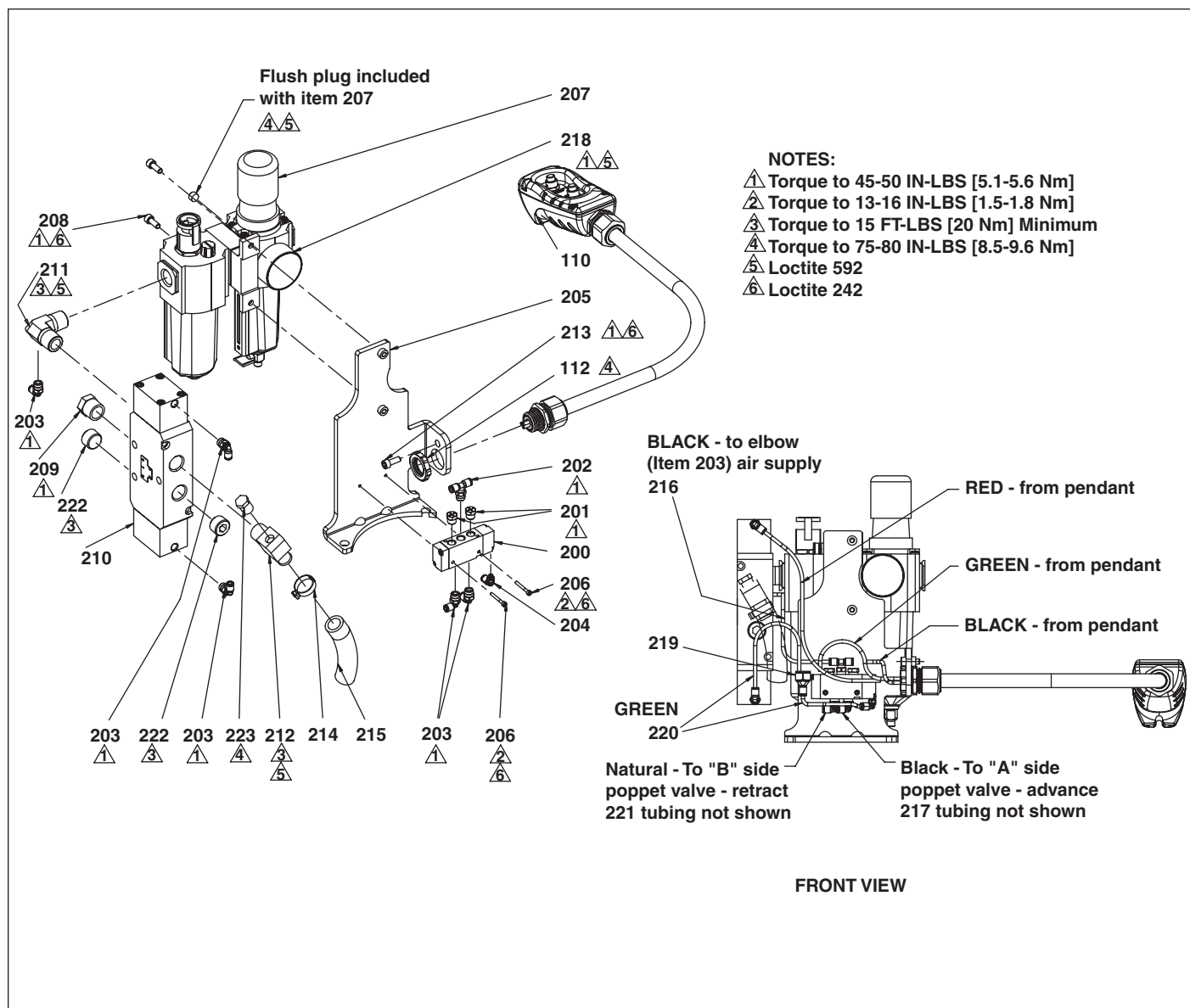


Figure 6, Air Logic Assembly

| 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  | DC8108038     | 1    | Elbow                                 |
| 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              | 218  | DC8101223     | 1    | Gauge 0-160 PSI                       |
| 205                            | DC8042111    | 1    | Bracket                       | 219  | DC3574097     | 1    | Y Fitting                             |
| 206                            | CBE323028-1A | 2    | M3 x .5 x 25mm SHCS           | 220  | DC8124268     | 2    | Tubing 5/32 x 4.5" Green              |
| 207                            | DC8033118    | 1    | Filter                        | 221  | DC8125268     | 1    | Tubing 5/32 x 18" Natural (not shown) |
| 208                            | CBE619028-1A | 2    | M6-1 x 16 SHCS                | 222  | A1010245      | 2    | 1/2 NPT Flush Plug                    |
| 209                            | F100118-20   | 1    | Breather Vent                 |      |               |      |                                       |
| 210                            | DC8109662    | 1    | Air Vent                      |      |               |      |                                       |
| 211                            | DC8086095    | 1    | Elbow                         |      |               |      |                                       |

- NOTES:**
- ⚠ Assemble one lockwasher underneath pushbuttons as shown. Discard remaining lockwashers and spacers provided with parts 93, 98 and 99.
  - ⚠ Torque to 13-16 IN-LBS [1.5-1.8 Nm]

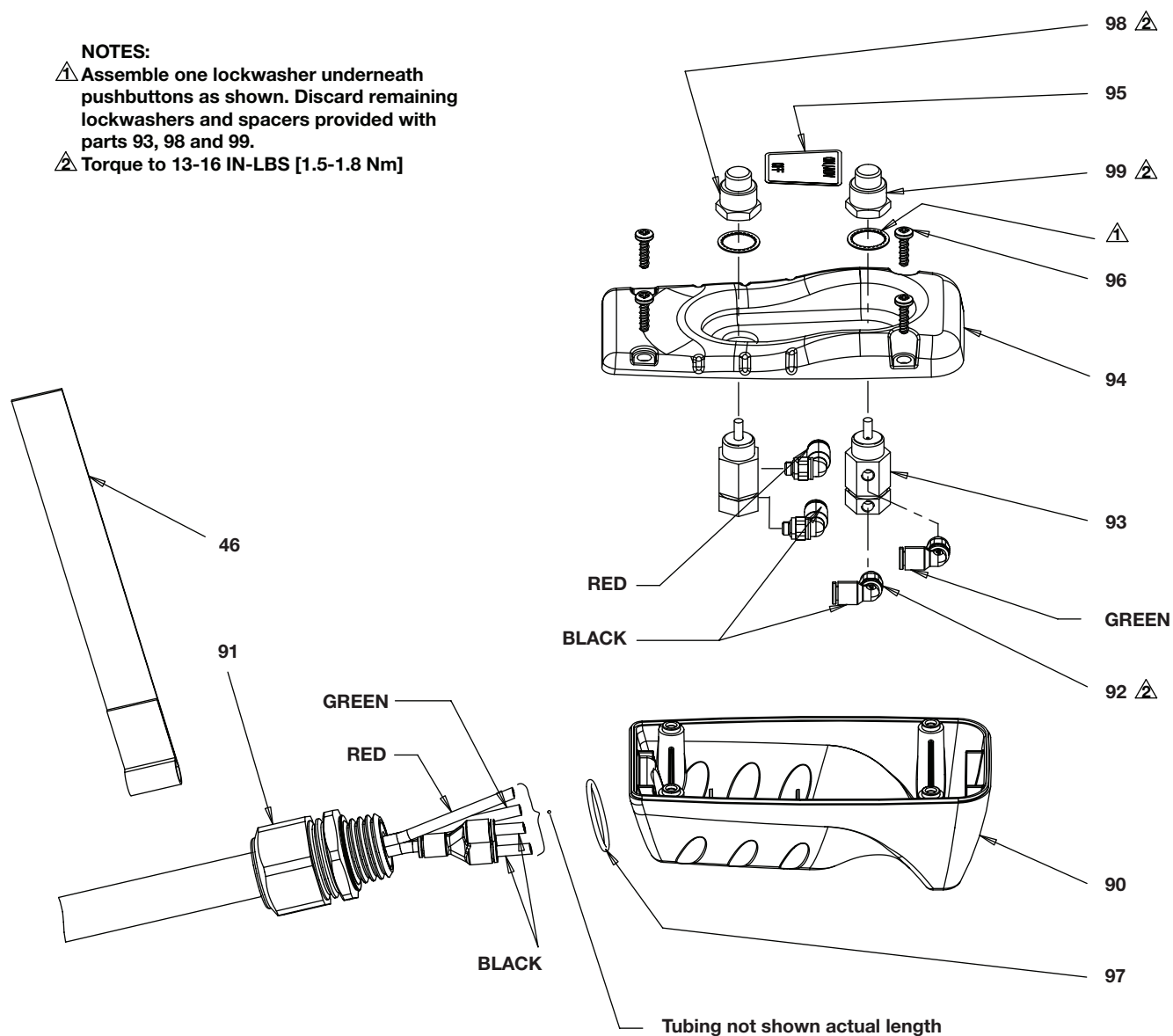


Figure 7, Pendant Assembly

| 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 |      |             |      |                   |

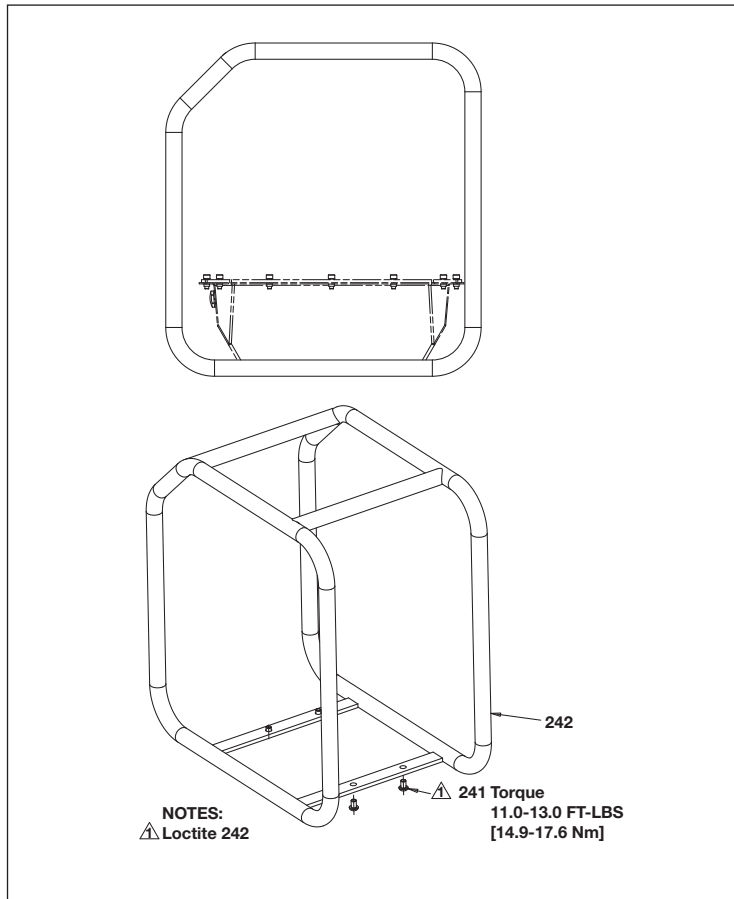


Figure 8, Rollbar Assembly ZRC-04

| 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 capacity at full pressure | Higher capacity cylinder is needed to lift load                      |
|                                                   | Flow to cylinder blocked                             | Check system components                                              |



[illegible]

