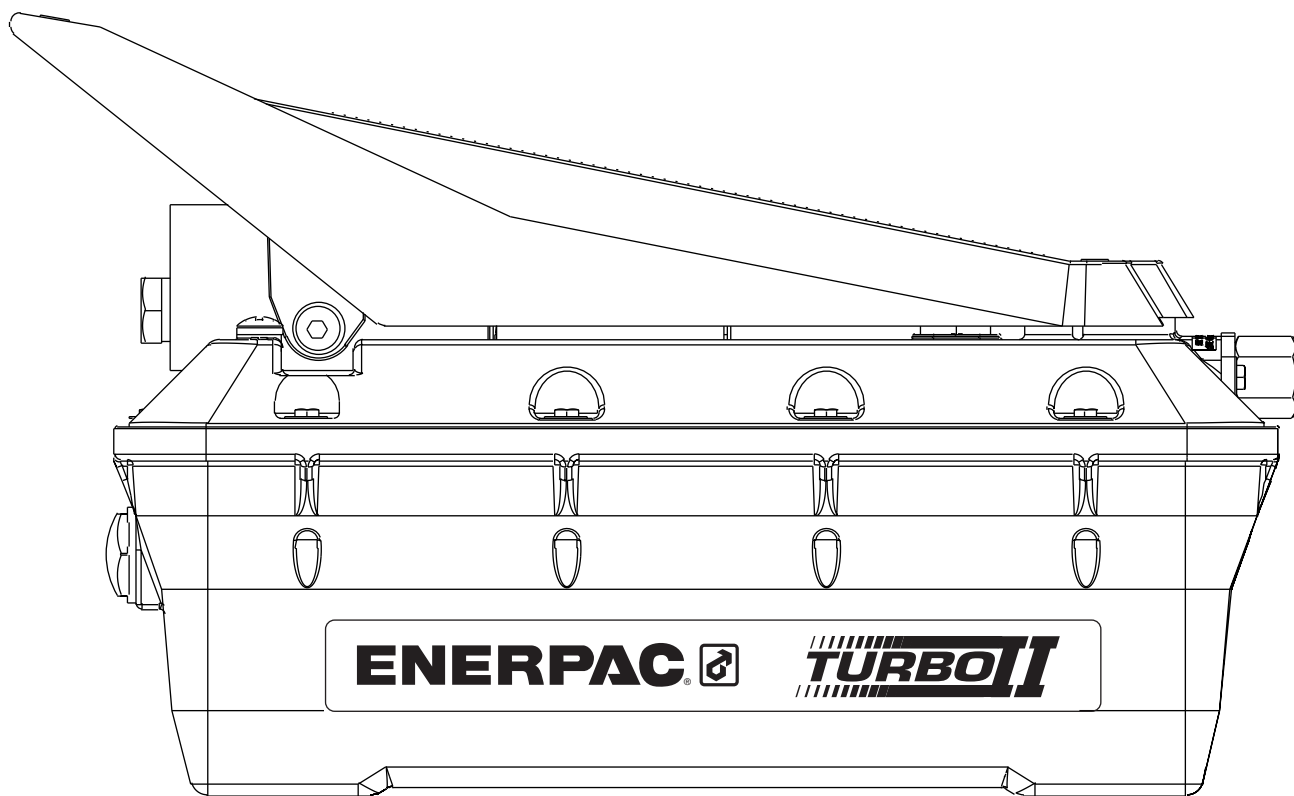


**To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.**

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

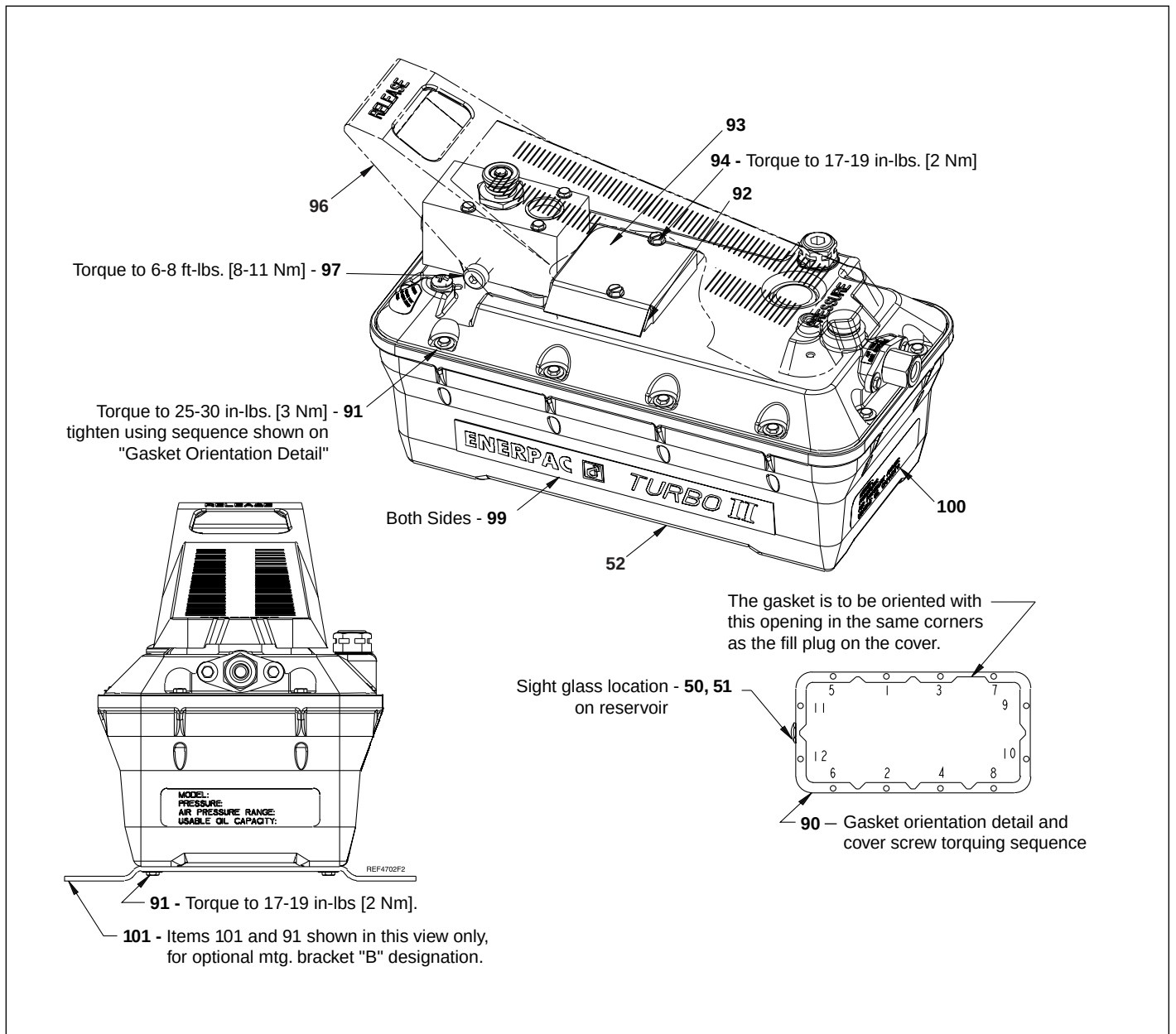
**NOTE: Storing the pump in the vertical position may cause it to loose its prime. If pump looses its prime:**

1. Remove cover.
2. Remove relief valve.
3. Fill chamber with oil
4. Replace relief valve. Apply Loctite 545 to threads and torque to 10–12 ft-lbs. [14–16 Nm]
5. Replace pump cover. Tighten every other fastener around the perimeter of the cover in one continuous direction.



**Contents**

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**Figure 1**

| Repair Parts List for Figure 1 |             |      |                              |      |             |      |                               |
|--------------------------------|-------------|------|------------------------------|------|-------------|------|-------------------------------|
| Item                           | Part Number | Qty. | Description                  | Item | Part Number | Qty. | Description                   |
| 50                             | DA12288022  | 1    | Sight Glass                  | 92   | DA8625116   | 1    | Muffler                       |
| 51                             | B1908503    | 1    | O Ring                       | 93   | DA5690098   | 1    | Muffler Cover                 |
| 52                             | DC2251900SR | 1    | Reservoir, 2 Lt. Yellow      | 94   | DC1523028   | 2    | Slotted Hex Washer Head Scr.  |
|                                | DC2252900SR | 1    | Reservoir, 2 Lt. Black       | 96   | DA4849218   | 1    | Treadle                       |
|                                | DC2253900SR | 1    | Reservoir, 2 Lt. Red         | 97   | DA4236242   | 2    | Shoulder Screw                |
|                                | DC2257900SR | 1    | Reservoir, 2 Lt. Translucent | 99   | DC2262026   | 1    | Decal, Enerpac Turbo II Black |
|                                | DC975286SR  | 1    | Reservoir, 5 Lt. Black       |      | DC2260026   | 1    | Decal, Enerpac Turbo II White |
| 90                             | DC4027167   | 1    | Reservoir Gasket             | 100  | DA4296026   | 1    | Model No. Decal               |
| 91                             | DA5938028   | 16   | Hi Lo Screw                  | 101  | DA5389111   | 1    | Mtg. Bracket                  |

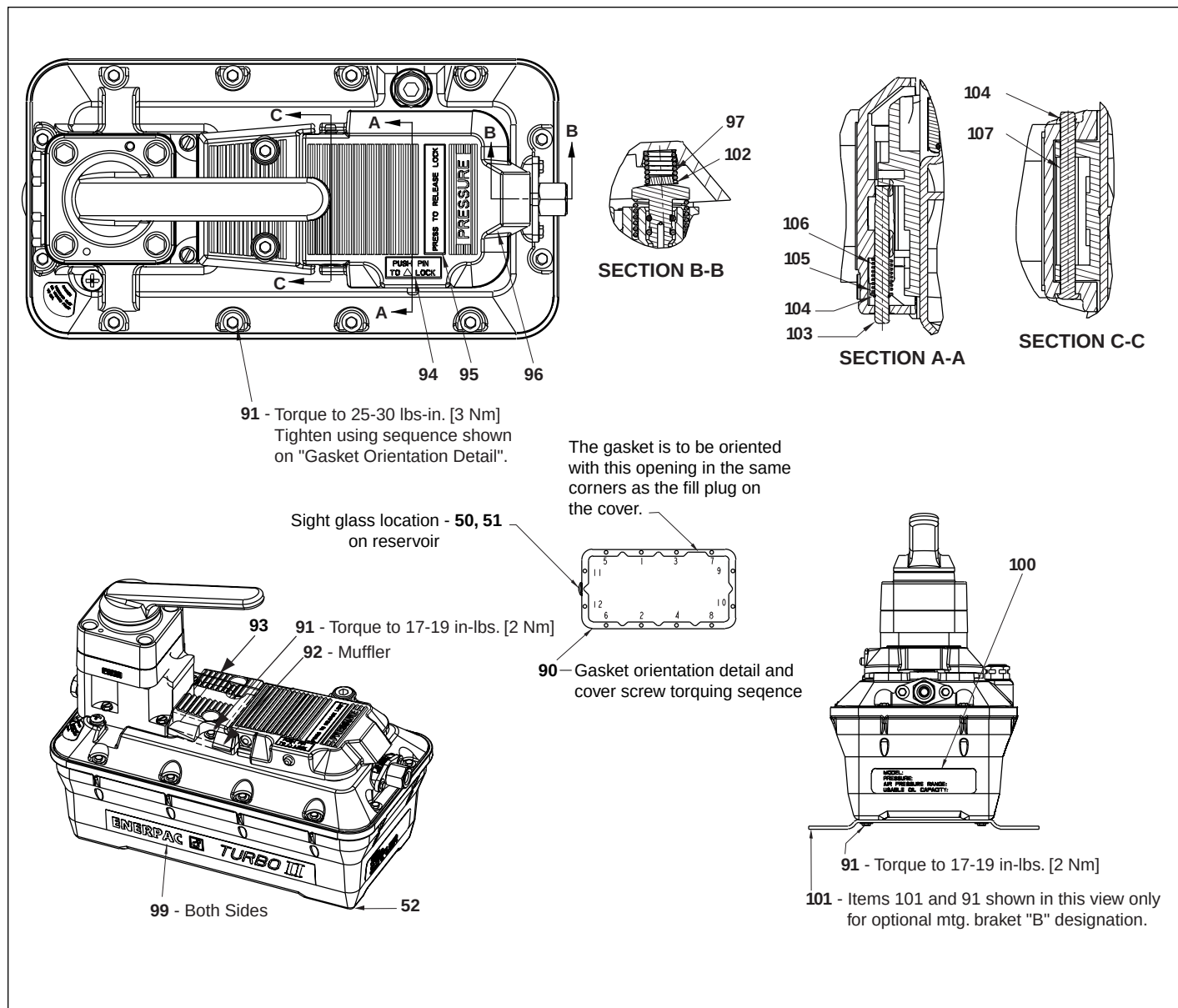
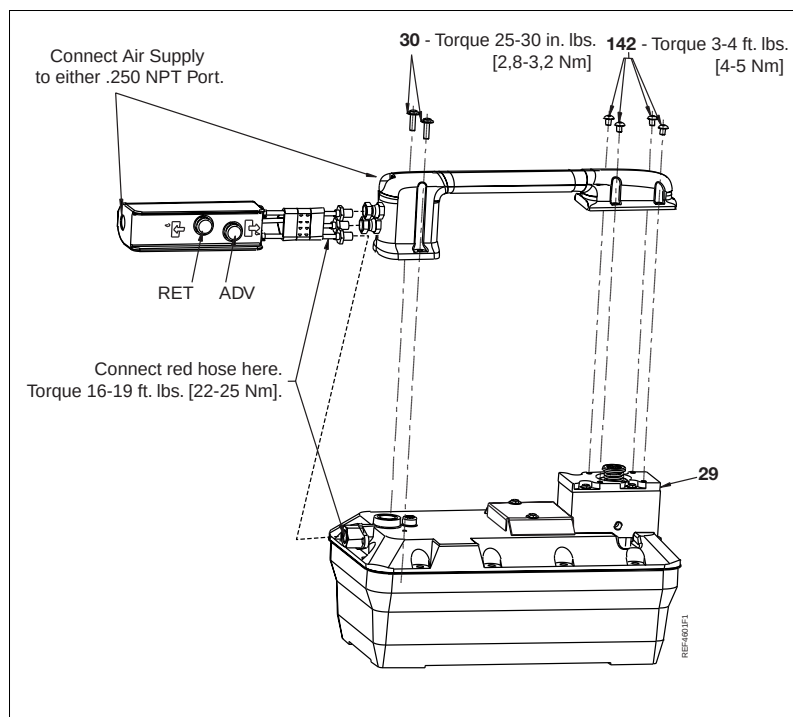


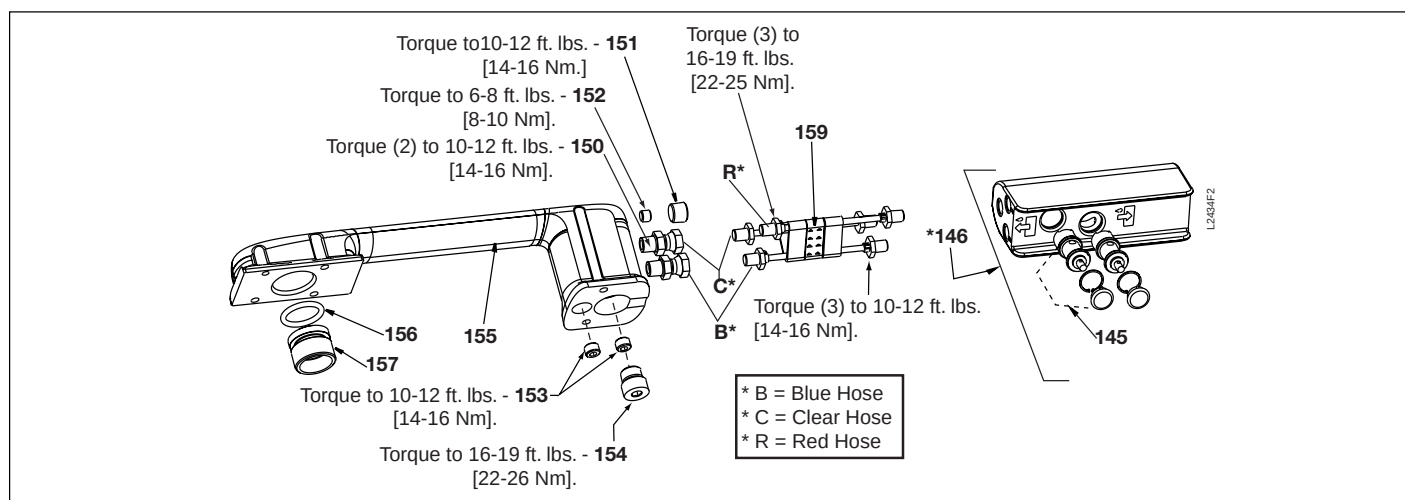
Figure 2

| Repair Parts List for Figure 2 |             |      |                              |      |             |      |                               |
|--------------------------------|-------------|------|------------------------------|------|-------------|------|-------------------------------|
| Item                           | Part Number | Qty. | Description                  | Item | Part Number | Qty. | Description                   |
| 50                             | DA12288022  | 1    | Sight Glass                  | 96   | DA7937218   | 1    | Treadle                       |
| 51                             | B1908503    | 1    | O Ring                       | 97   | DA8506110   | 1    | Spring                        |
| 52                             | DC2251900SR | 1    | Reservoir, 2 Lt. Yellow      | 99   | DC2262026   | 2    | Decal, Enerpac Turbo II Black |
|                                | DC2252900SR | 1    | Reservoir, 2 Lt. Black       |      | DC2260026   | 2    | Decal, Enerpac Turbo II White |
|                                | DC2253900SR | 1    | Reservoir, 2 Lt. Red         | 100  | DA4296026   | 1    | Model No. Decal               |
|                                | DC2257900SR | 1    | Reservoir, 2 Lt. Translucent | 101  | DA5389111   | 1    | Mtg. Bracket                  |
|                                | DC975286SR  | 1    | Reservoir, 5 Lt. Black       | 102  | DA8670013   | 1    | Spring Guide                  |
| 90                             | DC4027167   | 1    | Reservoir Gasket             | 103  | DA7940061   | 1    | Latch Pin                     |
| 91                             | DA5938028   | 18   | Hi Lo Screw                  | 104  | DA5025349   | 2    | Ret. Ring                     |
| 92                             | DA8625116   | 1    | Muffler                      | 105  | DA8505186   | 1    | Spacer                        |
| 93                             | DA7935111   | 1    | Mtg. Bracet Casting          | 106  | DA8508110   | 1    | Spring                        |
| 94                             | DA8744026   | 1    | Decal                        | 107  | DA7939061   | 1    | Hinge Pin                     |
| 95                             | DA8743026   | 1    | Decal                        |      |             |      |                               |



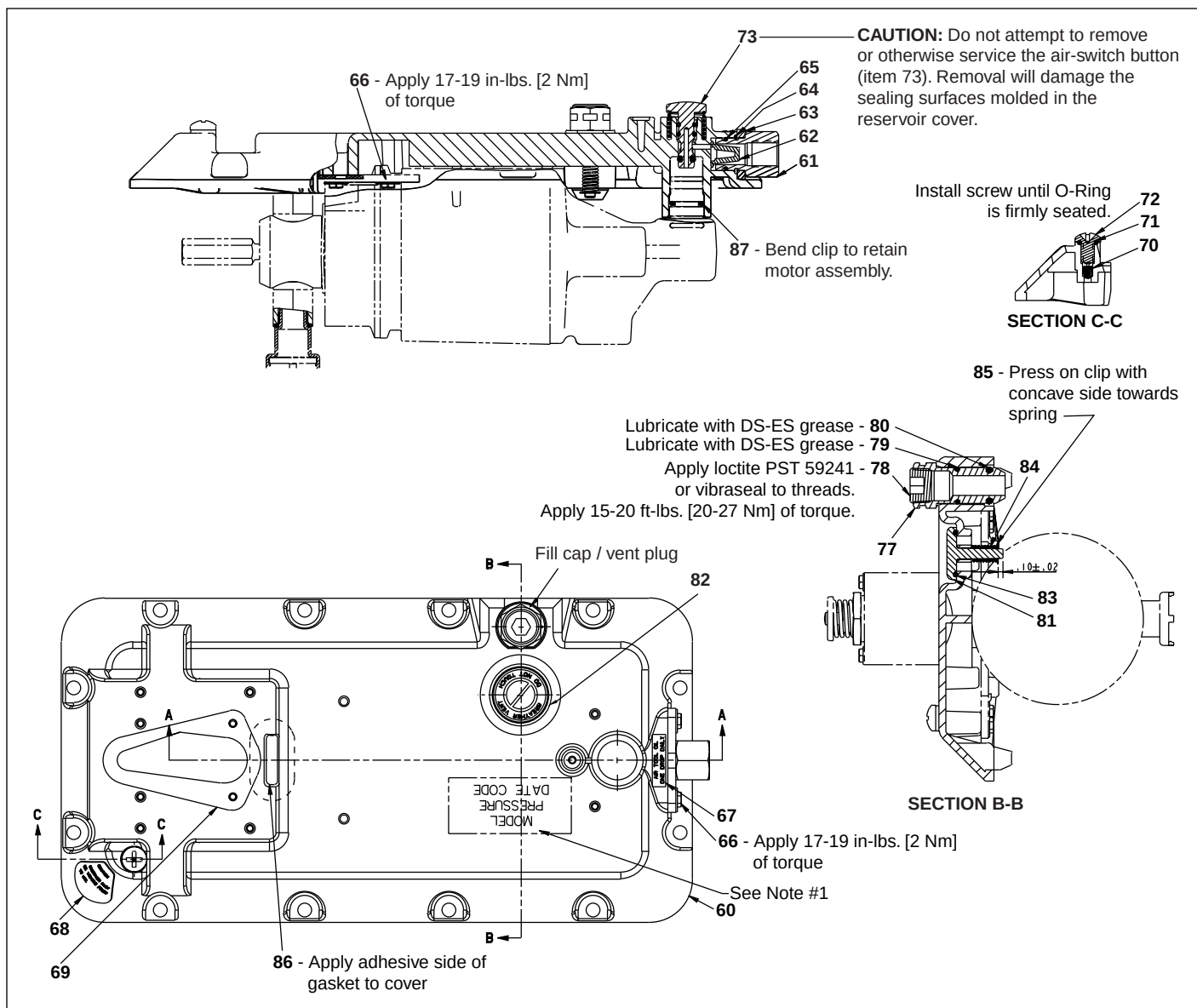
**Figure 2a, Remote Pendant Turbo Pump Assembly**

| Repair Parts List for Figure 2a |             |      |                   |
|---------------------------------|-------------|------|-------------------|
| Item                            | Part Number | Qty. | Description       |
| 29                              | DC2355186   | 1    | Valve Spacer      |
| 30                              | DA5938028   | 2    | Hi Lo Screw       |
| 142                             | B1320028    | 4    | 10-32 x .38 Screw |



**Figure 2b, Pendant Handle Assembly**

| Repair Parts List for Figure 2b                           |             |      |                                     |      |             |      |                       |
|-----------------------------------------------------------|-------------|------|-------------------------------------|------|-------------|------|-----------------------|
| Item                                                      | Part Number | Qty. | Description                         | Item | Part Number | Qty. | Description           |
| 145                                                       | DC2363660SR | 2    | Air Cartridge Valve                 | 154  | B1005006    | 1    | #6 SAE Hex Plug       |
| *146                                                      | DC2354840SR | 1    | Air Pendant Assy. (Includes No 145) | 155  | DC2347070SR | 1    | Handle Assembly       |
| 150                                                       | DC2367006   | 2    | 1/8" NPT Swivel Fitting             | 156  | ★B1018503   | 1    | O-ring 70 DUPR -213   |
| 151                                                       | A1008245    | 1    | Hex Plug                            | 157  | DC473051    | 1    | Pneumatic Dump Piston |
| 152                                                       | A1006245    | 1    | 1/16 Flush Plug w/ Sealant          | 159  | DC2365646SR | 1    | Hose Assembly         |
| 153                                                       | A1007245    | 2    | 1/8 Flush Plug w/ Sealant           |      |             |      |                       |
| ★ Items included in Pump Repair Kit, see Table 2 page 12. |             |      |                                     |      |             |      |                       |

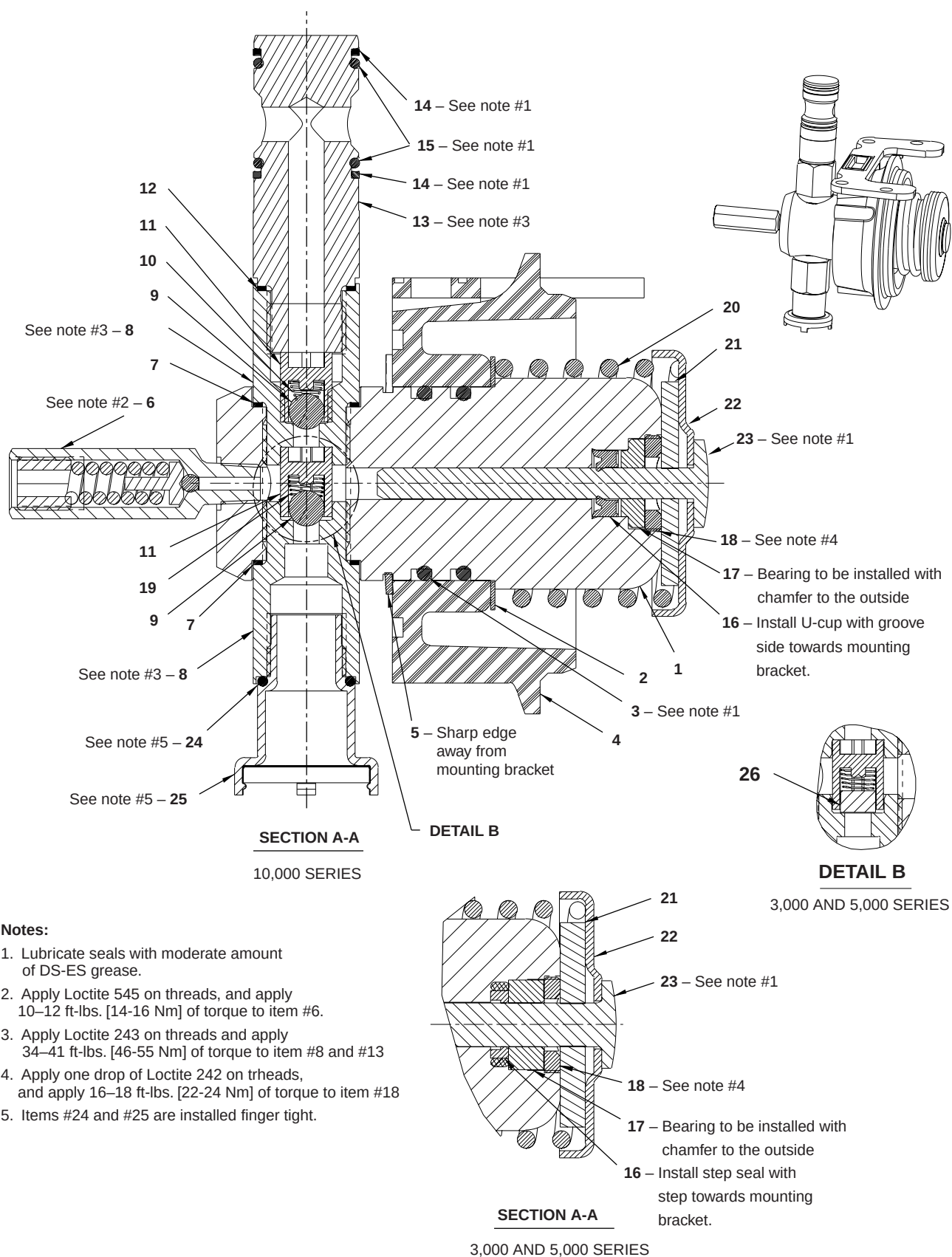


**Figure 3**

**Repair Parts List for Figure 3**

| Item | Part Number  | Qty. | Description                  | Item | Part Number     | Qty. | Description              |
|------|--------------|------|------------------------------|------|-----------------|------|--------------------------|
| 60   | DC3913900SR  | 1    | Cover Assy. (includes 61-87) | 73   | Not serviceable | 1    | Air Button               |
| 61   | DA5295034    | 1    | Swivel Coupler               | 77   | DA4871118       | 1    | Breather                 |
| 62   | ★DA5015118SR | 1    | Filter                       | 78   | A1009245        | 1    | 3/8 Flush Plug W/Sealant |
| 63   | DA4847799    | 1    | Stamped Bracket              | 79   | ★DA5349503      | 1    | O Ring (Wear Coated)     |
| 64   | DA5026349    | 1    | Ret. Ring                    | 80   | ★B1010503       | 1    | O Ring                   |
| 65   | ★B1220503    | 1    | O Ring Ref B839503           | 81   | DC708440        | 1    | Poppet                   |
| 66   | DA5938028    | 6    | Hi Lo Screw                  | 82   | U972038026-2    | 1    | Breather Vent Decal      |
| 67   | U972038026-3 | 1    | Air Tool Oil Decal           | 83   | B1224503        | 1    | O Ring Ref J711041       |
| 68   | DA7931026    | 1    | Caution Decal                | 84   | DC821110        | 1    | Compression Spring       |
| 69   | ★DA6957037   | 1    | Gasket                       | 85   | DC4077160       | 1    | 3/16" Retainer           |
| 70   | ★DA4390118   | 1    | Filter                       | 86   | ★DA6956037      | 1    | Gasket                   |
| 71   | ★B1005503    | 1    | O Ring                       | 87   | ★DA5521149      | 1    | Retaining Pin            |
| 72   | DC1522028    | 1    | Phillips Heads Screw         |      |                 |      |                          |

★ Items included in Pump Repair Kit, see Table 2 page 12.



**Figure 5**

| Repair Parts List for Figure 4 |             |      |                                  |      |             |      |                              |
|--------------------------------|-------------|------|----------------------------------|------|-------------|------|------------------------------|
| Item                           | Part Number | Qty. | Description                      | Item | Part Number | Qty. | Description                  |
| 1                              | DC114030    | 1    | Hydraulic Cylinder, Turbo 10 KSI | 17   | ★ CB624108  | 1    | Bearing 10 KS                |
|                                | DC116030    | 1    | Hydraulic Cylinder, Turbo 3 KSI  |      | ★ DA9056108 | 1    | Bearing 3 KSI                |
|                                | DC115030    | 1    | Hydraulic Cylinder, Turbo 5 KSI  |      | ★ DA5352155 | 1    | Bearing 5 KSI                |
| 2                              | DA4298108   | 1    | Washer                           | 18   | ★ DA1204044 | 1    | Bearing Retainer 10 KSI      |
| 3                              | ★ B1258503  | 2    | O-Ring                           |      | ★ DA7888044 | 1    | Bearing Retainer 3 KSI       |
| 4                              | DA4287111   | 1    | Mtg. Bracket                     |      | ★ DA1204044 | 1    | Bearing Retainer 5 KSI       |
| 5                              | DA4343044   | 1    | Bowed Ret. Ring                  | 19   | ★ DA6911210 | 1    | Conical Spring               |
| 6                              | DA8802900SR | 1    | Relief Valve Assy                | 20   | DA4285110   | 1    | Spring                       |
| 7                              | ★ DA3811167 | 2    | Copper Gasket                    | 21   | DA6600108   | 1    | Rubber Washer 10 KSI         |
| 8                              | DC283290SR  | 2    | Seat                             |      | DA9280108   | 1    | Rubber Washer 3 KSI          |
| 9                              | ★ B1007016  | 2    | 1/4" Dia. Ball                   |      | DA5976108   | 1    | Rubber Washer 5 KSI          |
| 10                             | ★ DA4874110 | 1    | Conical Spring                   | 22   | DA4284108   | 1    | Spring Washer, Turbo, 10 KSI |
| 11                             | ★ DA3682013 | 2    | Ball Guide                       |      | DA9281108   | 1    | Spring Washer, Turbo, 3 KSI  |
| 12                             | ★ DC170167  | 1    | Copper Gasket                    |      | DA4628108   | 1    | Spring Washer, Turbo, 5 KSI  |
| 13                             | DC5268SR    | 1    | Pressure Tube 10 KSI             | 23   | CB180040    | 1    | Plunger, 10 KSI              |
| 14                             | ★ DA4974367 | 2    | Backup Ring                      |      | CB185040    | 1    | Plunger, 3 KSI               |
| 15                             | ★ B1016803  | 2    | O-Ring – Global                  |      | DA1219040   | 1    | Plunger, 5 KSI               |
| 16                             | ★ CB918041  | 1    | U-Cup 10 KSI                     | 24   | ★ B1221503  | 1    | O-Ring Ref. C403503          |
|                                | ★ DA9269476 | 1    | Rod Seal 3 KSI                   | 25   | DC442900SR  | 1    | Intake Tube Assy             |
|                                | ★ DA5351476 | 1    | Step Seal 5 KSI                  | 26   | ★ DC4440    | 1    | Poppet                       |

★ Items included as part of Repair Kits: (DC2222900K, 10,000 Series); (DC2220900K, 3,000 series); (DC2221900K, 5,000 series)  
Also included in complete Pump Repair Kit, see Table 2, page 12.

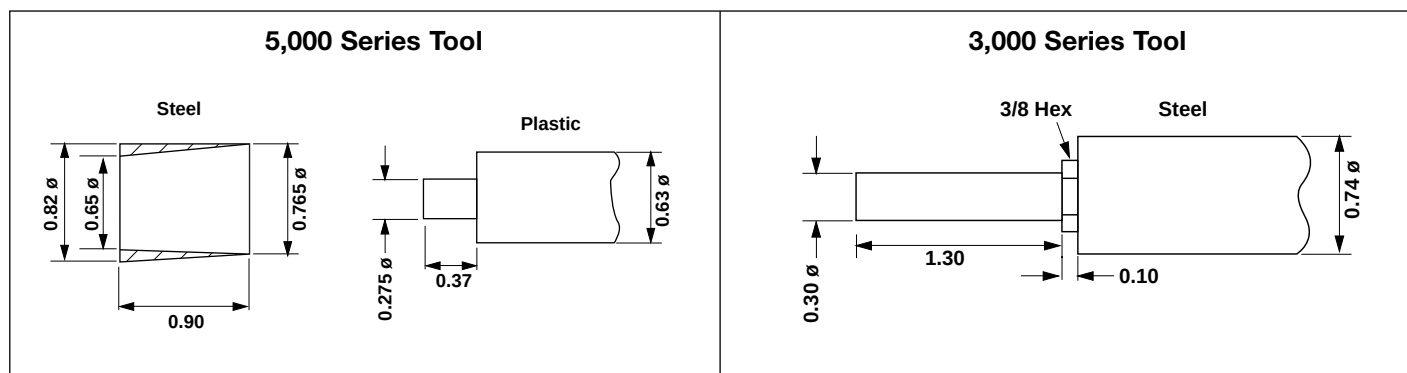


Figure 5

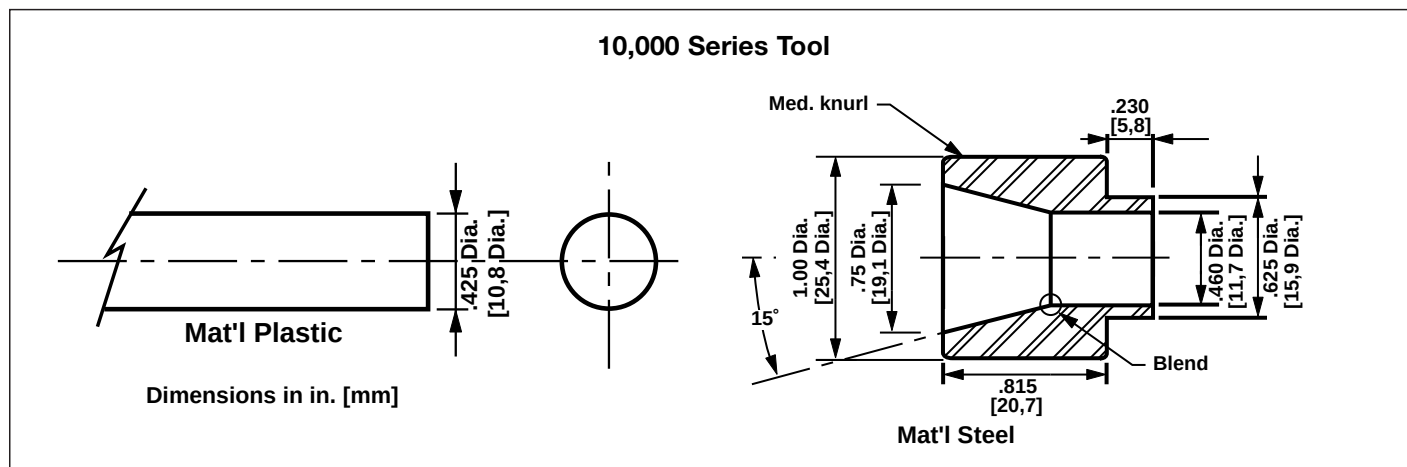
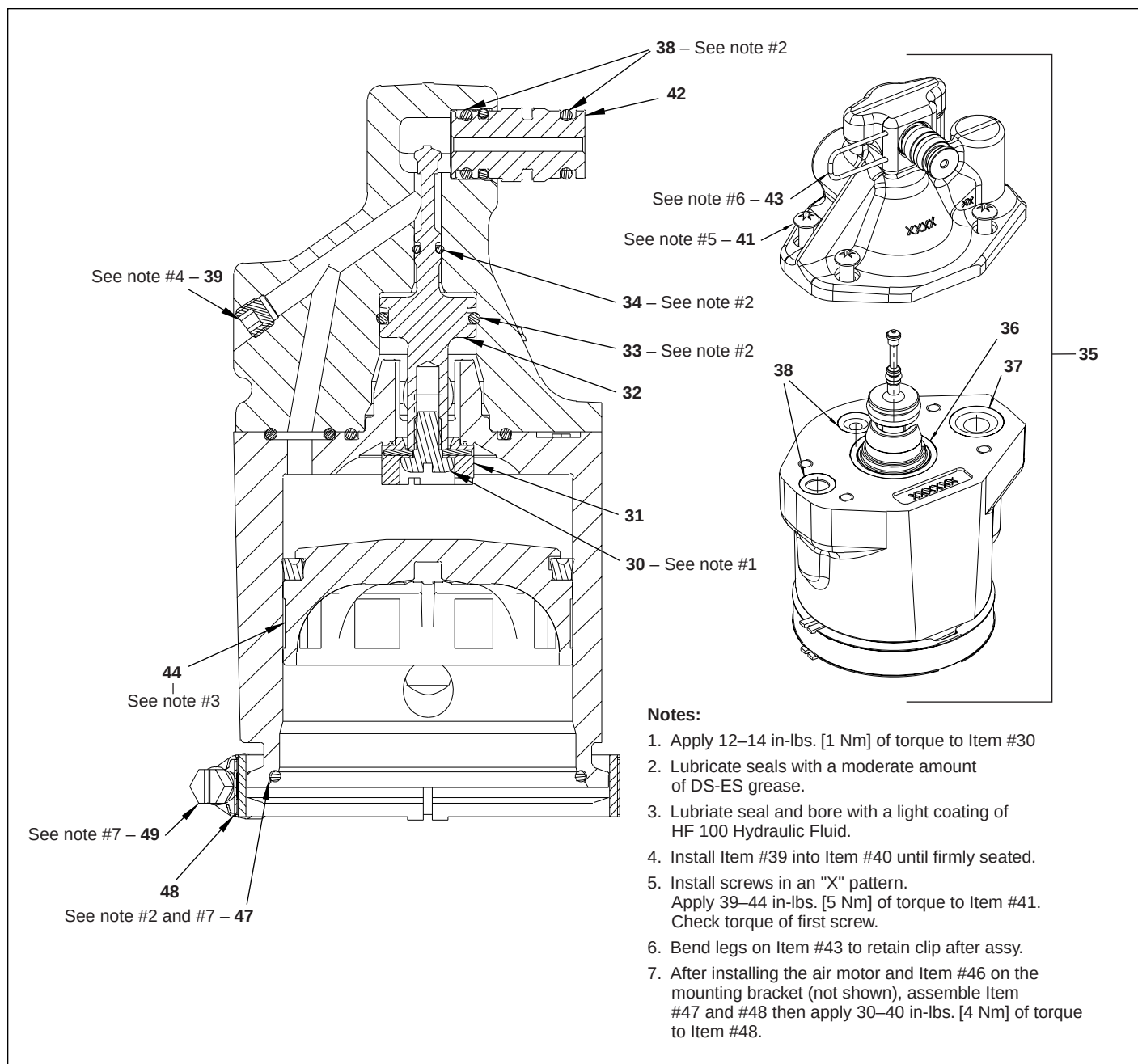


Figure 6

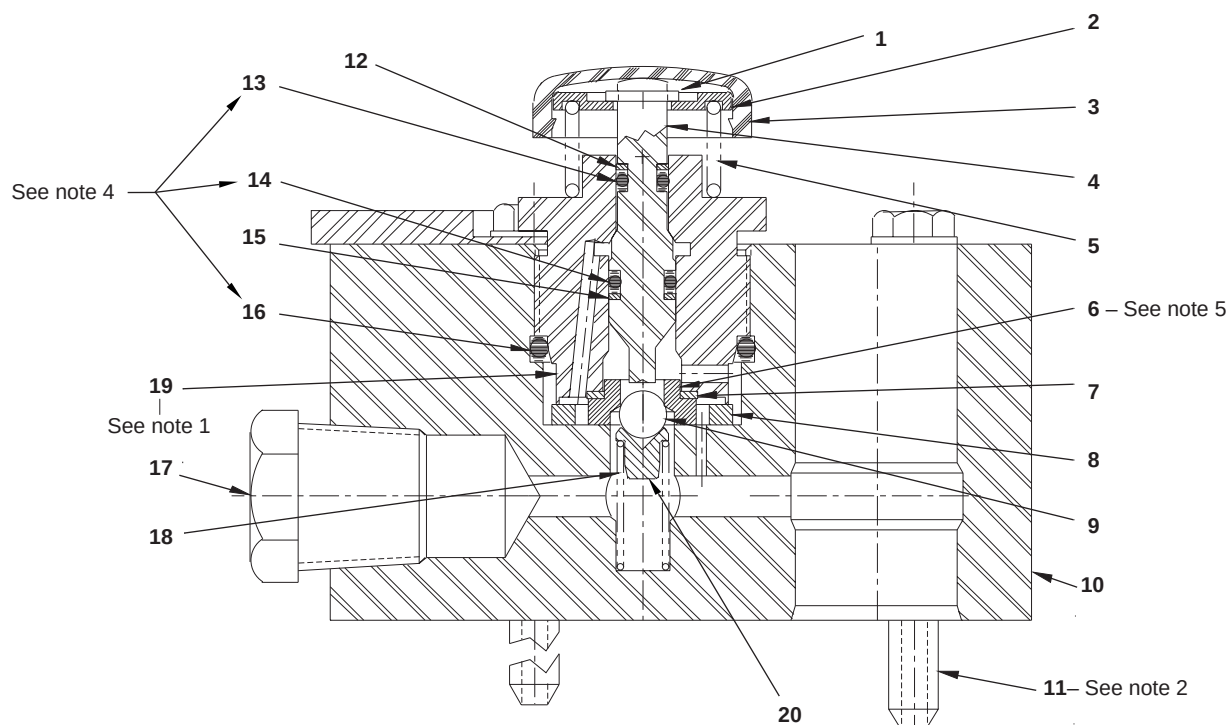


**Figure 7**

| Repair Parts List for Figure 7                                                                                                              |             |      |                            |      |             |      |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|----------------------------|------|-------------|------|--------------------------------|
| Item                                                                                                                                        | Part Number | Qty. | Description                | Item | Part Number | Qty. | Description                    |
| 30                                                                                                                                          | DA7085028   | 1    | Screw – .250-20 Special    | 39   | A1006245    | 1    | 1/16 Flush Plug w/Sealant      |
| 31                                                                                                                                          | ★ DA3706120 | 1    | B/U Washer                 | 41   | DC2261628   | 4    | Screw, Torx (.25-20 x .75 lg.) |
| 32                                                                                                                                          | DC2234051SR | 1    | Piston (Includes #33, #34) | 42   | DC2182099   | 1    | Extension Fitting, Air Motor   |
| 33                                                                                                                                          | ★ B1013503  | 1    | O-Ring                     | 43   | ★ DA5521149 | 1    | Retaining Pin                  |
| 34                                                                                                                                          | ★ B1001503  | 1    | O-Ring (.12 x .25 x .06)   | 44   | DA4122051SR | 1    | Air Motor Piston Assembly      |
| 35                                                                                                                                          | DC2200900SR | 1    | Air Motor, Complete        | 47   | ★ B1282503  | 1    | O-Ring                         |
| 36                                                                                                                                          | ★ B1260503  | 1    | O-Ring                     | 48   | DA2687111   | 2    | Clamp Brk.                     |
| 37                                                                                                                                          | ★ B1014503  | 1    | O-Ring Ref M760041         | 49   | DA2686299   | 1    | Hose Clamp                     |
| 38                                                                                                                                          | ★ B1009503  | 4    | O-Ring Ref K1041           |      |             |      |                                |
| ★ Items included in and available only as part of Repair Kit DC2200900K.<br>Also included in complete Pump Repair Kit, see Table 2 page 12. |             |      |                            |      |             |      |                                |

**Notes:**

1. Torque Item #19 to 72–78 ft-lbs. [98-105 Nm] with threads lubricated
2. Torque Item #11 to 17–19 in-lbs. [2 Nm]
3. Lubricate all seals and mating surfaces w/DS-ES Grease prior to ass'y. unless otherwise noted.
4. Prior to assembling Item #6 seat, coin seat with a  $\varnothing$  .219 ball to a force of 95–105 lbs. [ 444 N]

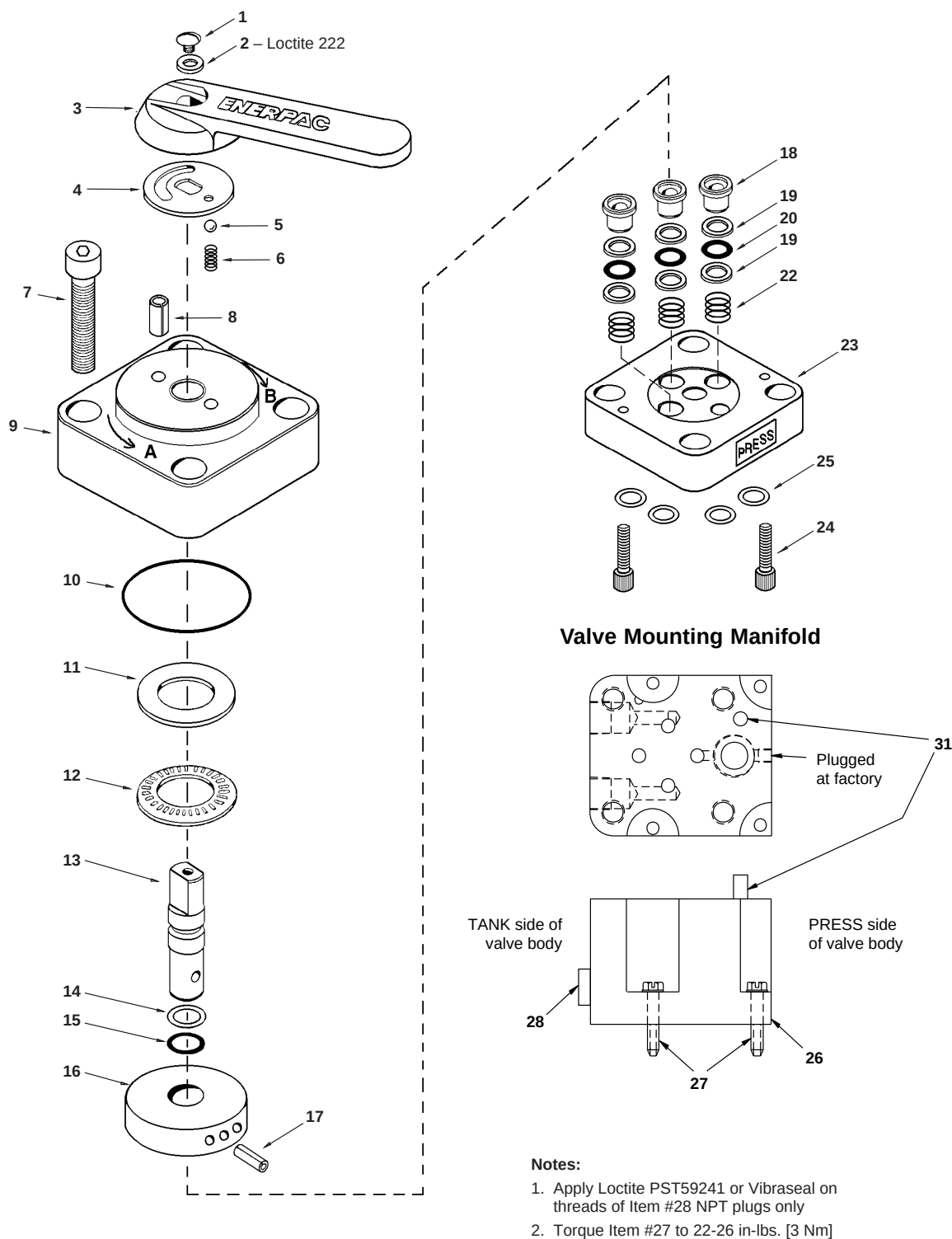


**Figure 8**

**Repair Parts List for Figure 8**

| Item | Part Number | Qty. | Description                | Item | Part Number | Qty. | Description                   |
|------|-------------|------|----------------------------|------|-------------|------|-------------------------------|
| 1    | ★ DA5025349 | 1    | Ret. Ring                  | 11   | DA4294028   | 4    | Thd. Form Screw               |
| 2    | DA4848108   | 1    | Spring Washer              | 12   | ★ B1006564  | 1    | B/U Washer                    |
| 3    | ★ DA4831020 | 1    | Cap                        | 13   | ★ B1001503  | 1    | O-Ring (.12 x .25 x .06)      |
| 4    | DA4832040   | 1    | Release Plunger            | 14   | ★ B1003503  | 1    | O-Ring (.19 x .31 x .06) BUNA |
| 5    | ★ DA6971110 | 1    | Spring                     | 15   | ★ B1008564  | 1    | Back-up Washer                |
| 6    | ★ CB581290  | 1    | Ball Seat                  | 16   | ★ B1118903  | 1    | O-Ring                        |
| 7    | ★ P20037    | 1    | Gasket                     | 17   | R515245-2   | 1    | Plug                          |
| 8    | ★ CL344167  | 1    | Gasket                     | 18   | ★ CJ656110  | 1    | Spring                        |
| 9    | ★ B1006016  | 1    | $\frac{7}{32}$ " Dia. Ball | 19   | DA4872013   | 1    | Release Guide                 |
| 10   | DA4833190   | 1    | Manifold                   | 20   | ★ DA7572013 | 1    | Ball Guide                    |

★ Items included in and available only as part of Repair Kit DA4836900K1.  
Also included in complete Pump Repair Kit, see Table 2 page 12.



**Figure 9**

**IMPORTANT**

Do not attempt to repair the pump by substituting another valve. The 4-way manual valve used on Turbo II pumps is *not* interchangeable with a standard Enerpac VM-4 valve. Using a valve that is not designed for this mounting configuration may result in the reservoir becoming pressurized during operation.

**For complete replacement valve, order:**

DA5118900SR for NPT Ports

DA9744900SR for BSPP Ports

| Repair Parts List for Figure 9                                               |             |      |                |      |             |      |                       |
|------------------------------------------------------------------------------|-------------|------|----------------|------|-------------|------|-----------------------|
| Item                                                                         | Part Number | Qty. | Description    | Item | Part Number | Qty. | Description           |
| 1                                                                            | A8076048    | 1    | Screw          | 17   | B1109057    | 1    | Roll Pin              |
| 2                                                                            | B1086108    | 1    | Washer         | 18   | DA9560041   | 3    | Shear Seal            |
| 3                                                                            | Y325070     | 1    | Handle         | 19   | ★B1011564   | 6    | Back-Up Washer        |
| 4                                                                            | A8005071    | 1    | Disc           | 20   | ★B1006503   | 3    | O-Ring                |
| 5                                                                            | B1006016    | 1    | 7/32" Ball     | 22   | ★CB28110    | 3    | Spring                |
| 6                                                                            | ★A8039110   | 1    | Spring         | 23   | CH539190    | 1    | Body                  |
| 7                                                                            | B1389028    | 4    | Bolt           | 24   | B1326028    | 2    | Bolt                  |
| 8                                                                            | B1126057    | 1    | Roll Pin       | 25   | ★B1111803   | 4    | O-Ring                |
| 9                                                                            | CB324001    | 1    | Valve Cap      | 26   | DA5132840SR | 1    | Manifold - NPT Ports  |
| 10                                                                           | ★B1269503   | 1    | O-Ring         |      | DA9745840SR | 1    | Manifold - BSPP Ports |
| 11                                                                           | CB327101    | 1    | Bearing Plate  | 27   | DC1523028   | 4    | Screw                 |
| 12                                                                           | CB328281    | 1    | Bearing        | 28   | CS235006    | 2    | Plug - BSPP Ports     |
| 13                                                                           | CH536104    | 1    | Shaft          |      | R515245-2   | 2    | Plug - NPT Ports      |
| 14                                                                           | ★B1012564   | 1    | Back-Up Washer | 30   | DA5579026   | 1    | Decal VM4 (not shown) |
| 15                                                                           | ★B1007503   | 1    | O-Ring         | 31   | B1051057    | 1    | Pin                   |
| 16                                                                           | CH542950SR  | 1    | Disc Assembly  |      |             |      |                       |
| ★ Indicates parts included in complete Pump Repair Kit, see Table 2 page 12. |             |      |                |      |             |      |                       |

## Pump Manifolds

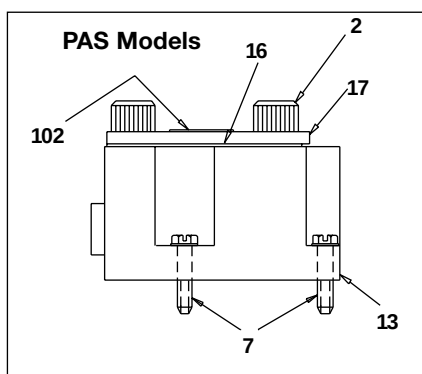


Figure 10

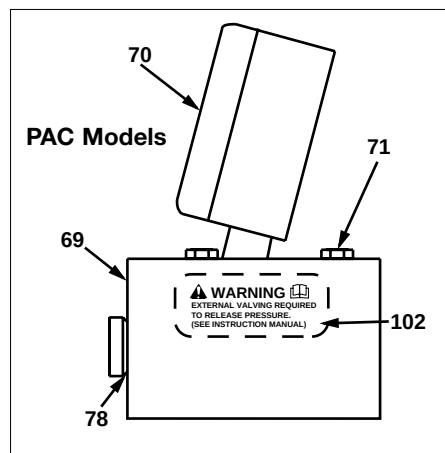


Figure 11

| Repair Parts List for Figure 10 |              |      |                     |      |             |      |               |
|---------------------------------|--------------|------|---------------------|------|-------------|------|---------------|
| Item                            | Part Number  | Qty. | Description         | Item | Part Number | Qty. | Description   |
| 2                               | B1323028     | 4    | SCHS SAE Manifolds  | 13   | DA9259840SR | 1    | Manifold BSPP |
|                                 | CBA515028-1A | 4    | SHCS BSPP Manifolds | 16   | ★ DA9787037 | 1    | Gasket        |
| 7                               | DC1523028    | 4    | Screw               | 17   | DA9788098   | 1    | Cover         |
| 13                              | DC94840SR    | 1    | Manifold SAE        | 102  | DA9884026   | 4    | Warning Decal |

| Repair Parts List for Figure 11 |             |      |                         |      |             |      |                      |
|---------------------------------|-------------|------|-------------------------|------|-------------|------|----------------------|
| Item                            | Part Number | Qty. | Description             | Item | Part Number | Qty. | Description          |
| 69                              | DA5307190   | 1    | Valve Body - SAE Ports  | 71   | DA4294028   | 4    | Thread Forming Screw |
|                                 | DA9747190   | 1    | Valve Body - BSPP Ports | 78   | ★ B1007503  | 1    | O-Ring (SAE only)    |
| 70                              | G2517L      | 1    | 2.5" Gauge 0-6,000 psi  | 102  | DA9554026   | 1    | Warning Decal        |
|                                 | A1008245    | 1    | Hex Plug (BSPP only)    |      |             |      |                      |

★ Items included in and available only as part of Repair Kit. See Table 2 page 12 for Repair Kit ordering information.

**Table 1 - Relief Valve Settings**

| Pump Model | Pressure Rating | Relief Valve Pressure Setting |
|------------|-----------------|-------------------------------|
| PA_G1_____ | 10,000 psi      | 10,400 to 11,000 psi          |
| PA_G5_____ | 5,000 psi       | 5,200 to 5,700 psi            |
| PA_G3_____ | 5,000 psi       | 5,200 to 5,700 psi            |

**For standard models with special pressure settings,**

the model number will have a "dash" followed by 4 more digits to indicate the pressure setting.

To determine the pressure settings locate the model number stamp. The model number will be in the format PAYYYYYY-XXXX, where XXXX is the maximum pressure rating. The relief valve should be set from (XXXX= 250 psi to (XXXX) + 750 psi).

**Table 2 - Repair Kit Application**

| Pump Model                             | Recommended Repair Kit |
|----------------------------------------|------------------------|
| PATG1_____                             | PATG1100K              |
| PATG5_____                             | PATG5100K              |
| PATG3_____                             | PATG3100K              |
| PAMG1_____                             | PAMG1400K              |
| PAMG5_____                             | PAMG5400K              |
| PAMG3_____                             | PAMG3400K              |
| PACG5_____, PASG5_____, and PARG5_____ | PACG5000K              |
| PACG3_____, PASG3_____, and PARG3_____ | PACG3000K              |
| PARG1_____                             | PARG1100K              |

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