

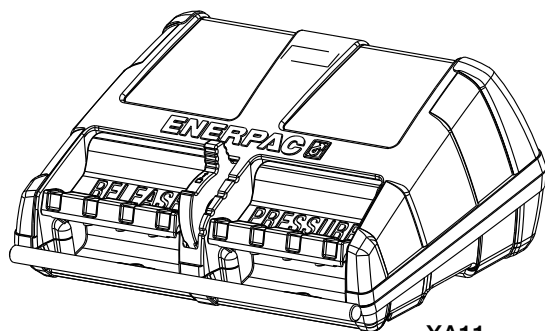
XA-Series Air Driven Hydraulic Pump

RPS61122-2 Rev. C 04/11

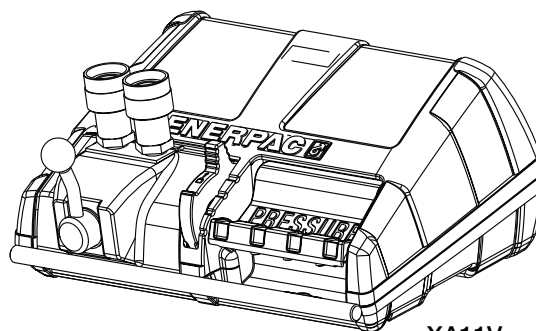
For Date Codes Beginning with the Letter "A"

To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.

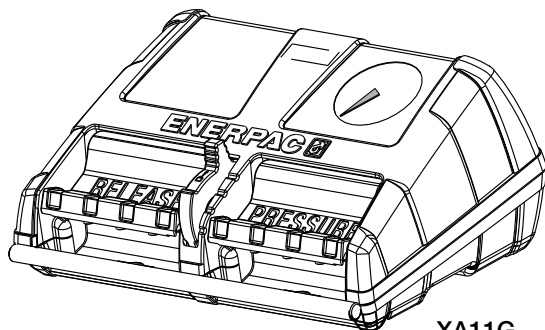
Enerpac recommends that all kit components be installed to insure optimum performance of the repaired product.



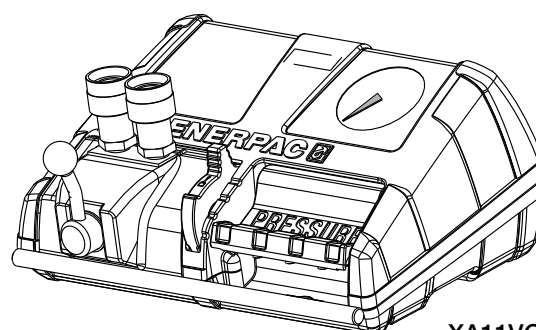
XA11
XA12



XA11V
XA12V



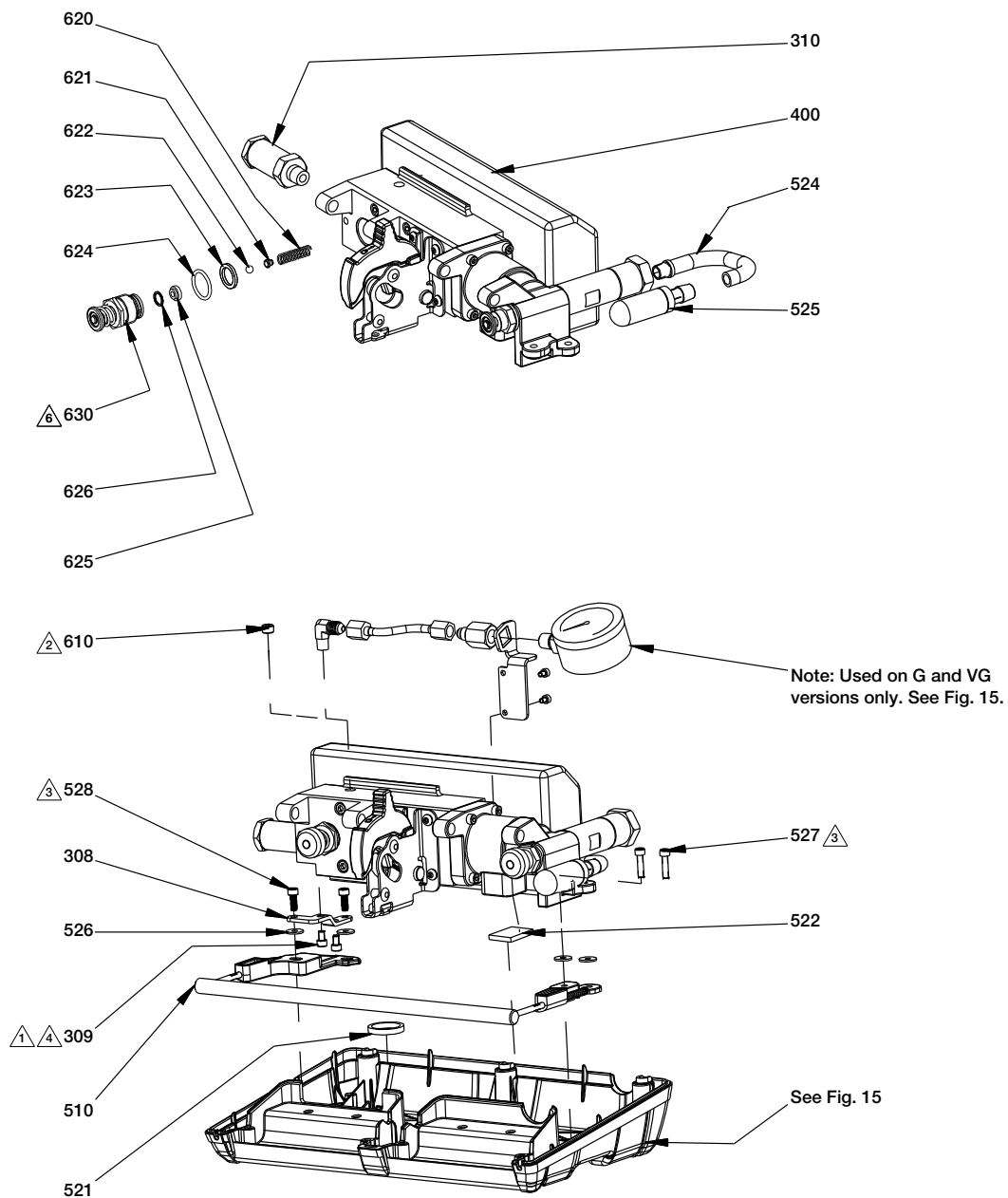
XA11G
XA12G



XA11VG
XA12VG

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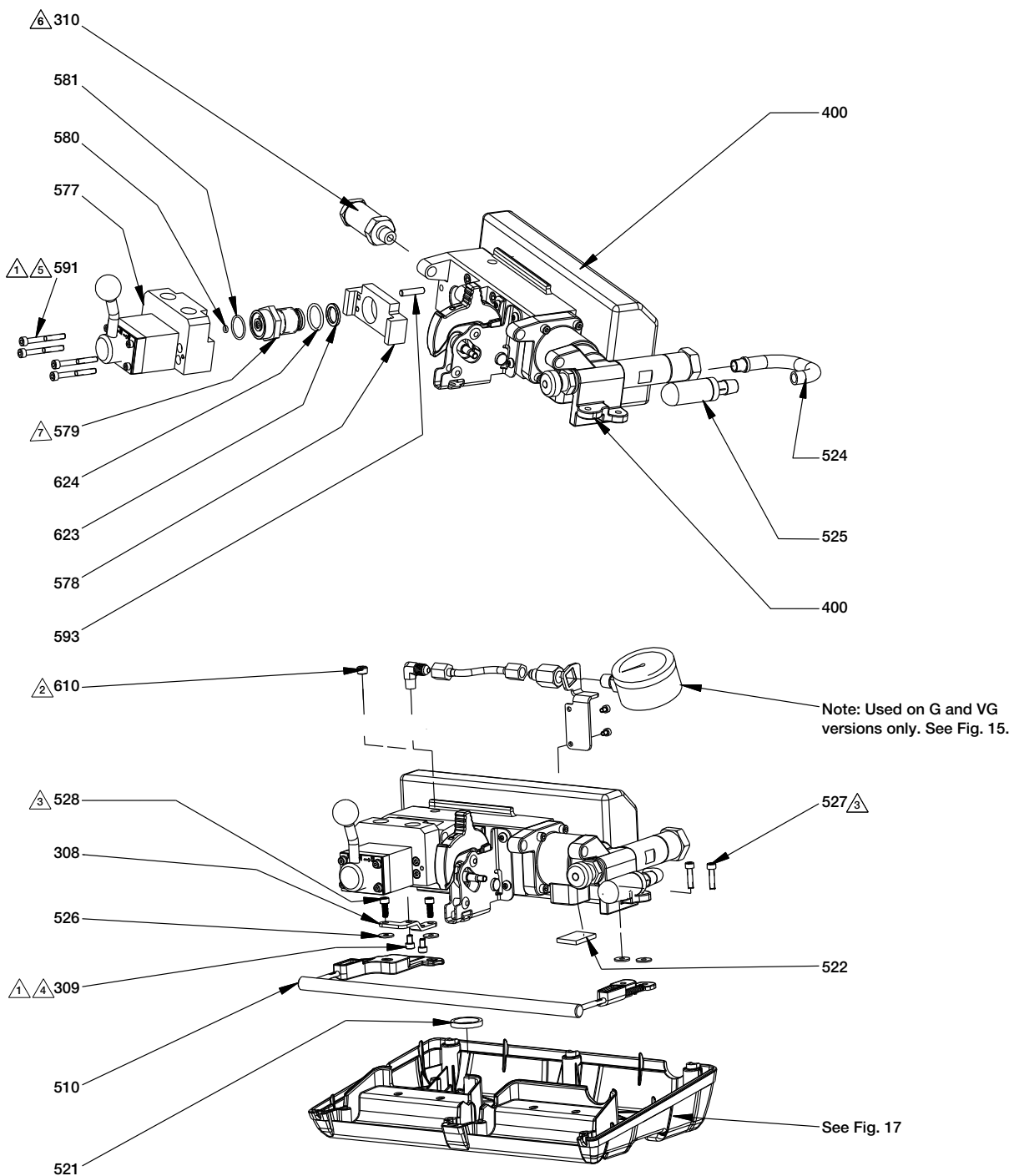
Notes:

- ① Apply Loctite 277.
- ② Torque to 22-25 Nm.
[16 to 19 ft-lbs]
- ③ Torque to 2.0-2.9 Nm.
[1.5 to 2.1 ft-lbs]
- ④ Torque to 4.8-5.3 Nm.
[3.5 to 3.9 ft-lbs]
- ⑥ Torque to 60-70 Nm.
[44 to 52 ft-lbs]

Figure 1, Pump Main Assembly (all except V and VG versions)

Repair Parts List for Figure 1

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
308	DC7693111	1	Bracket	527	●✚ CCA521028-1A	2	Screw, SCHS, M5 x 20
309	CCA513028-1A	2	Screw, Socket Head	528	●✚ DC7835028-1A	2	Screw, M5-14 mm, Zinc P
310	DC7266038	1	Adapter, Hydraulic Outlet	610	❖ A1007245	1	Plug (models w/o gauge)
400	DC7204950	1	Assembly, Power Unit (See Fig. 5)	620	■ DC10140110	1	Valve Spring, Release
510	✚ DC7829950	1	Assembly, Handle (See Fig. 4)	621	■ DC7309013	1	Ball Guide
521	● DC7264037	1	Gasket	622	■ B1007016	1	Ball
522	● DC7470116	1	Muffling Foam	623	★ ■ CL344167	1	Gasket
524	★ DC7797646	1	Hose	624	★ ■ B1118903	1	O-Ring
525	★ DC7881116	1	Muffler	625	■ DC7305290	1	Seat
526	★●✚ DC7228870	4	Vibration Damper	626	★ ■ P20037	1	Gasket
				630	■ DC7477950	1	Assy, Rel. Valve (see Fig. 7)
★ Items included in XA Seal Kit, XA1SK. ❖ Items included in XA Eccentric Kit, XA1EC. ■ Items included in XA Release Valve Kit, XA1RVK.				✚ Item included in XA Handle Kit, XA1HAK. ● Item included in XA Lower Housing Kit, XA1LEK.			
Note: Kit parts are available only in kits (not sold separately).							



Notes:

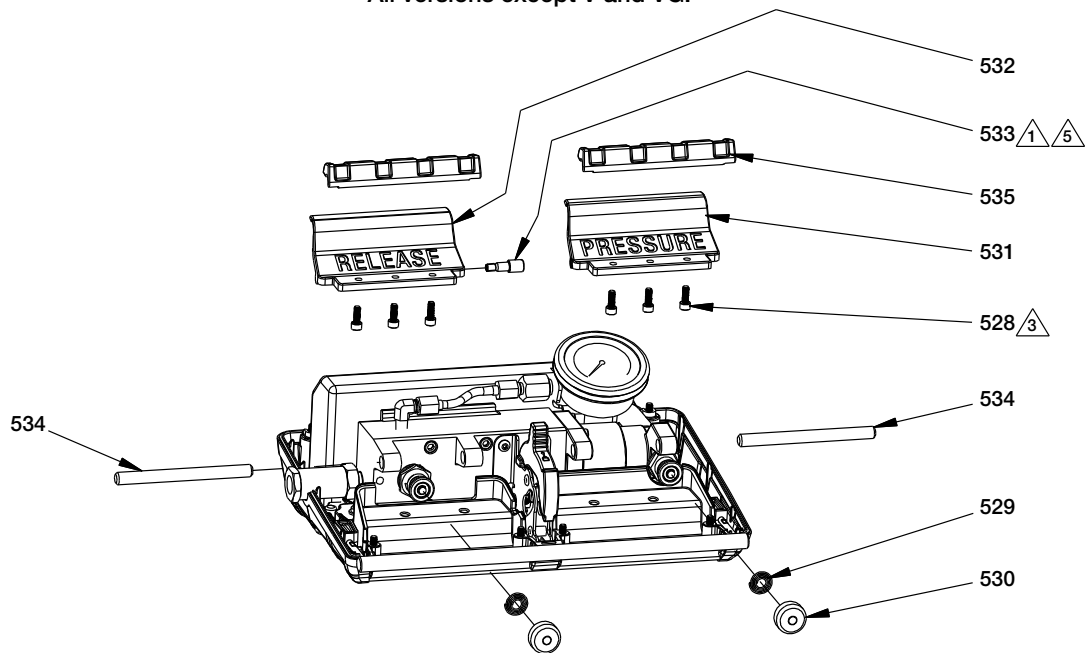
- | | |
|--|--|
| ① Apply Loctite 277. | ⑤ Torque to 8.1-8.9 Nm.
[6 to 6.5 ft-lbs] |
| ② Torque to 22-25 Nm.
[16 to 19 ft-lbs] | ⑥ Torque to 60-70 Nm.
[44 to 51 ft-lbs] |
| ③ Torque to 2.0-2.9 Nm.
[1.5 to 2.1 ft-lbs] | ⑦ Torque to 126-130 Nm.
[93 to 96 ft-lbs] |
| ④ Torque to 4.8-5.3 Nm.
[3.5 to 3.9 ft-lbs] | |

Figure 2, Pump Main Assembly (V and VG versions only)

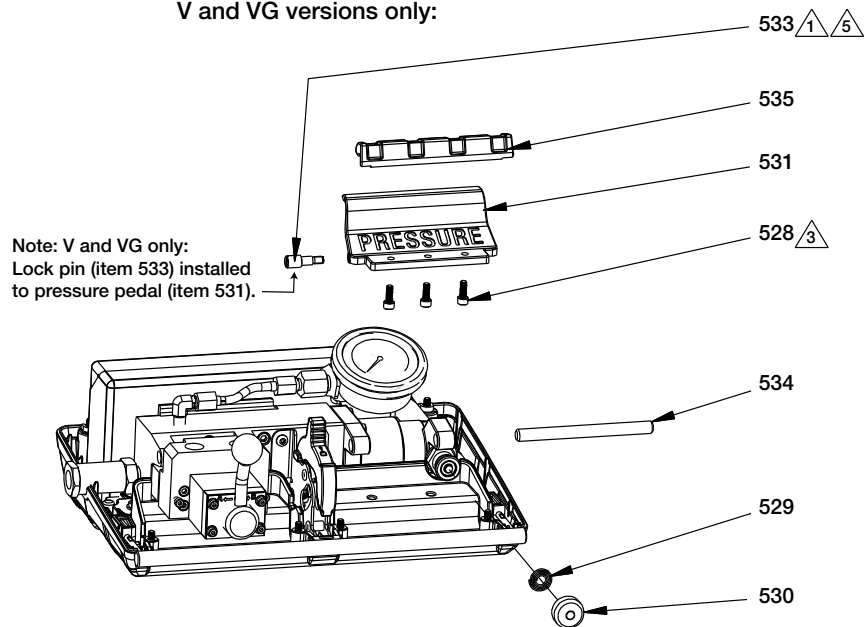
Repair Parts List for Figure 2

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
308	DC7693111	1	Bracket	528	●⌘ DC7835028-1A	2	Screw, M5-14 mm, Zinc P
309	CCA513028-1A	2	Screw, Socket Head	577	⌘ DC7437950	1	Valve, 4-Way (See Fig. 18)
310	DC7266038	1	Adapter, Hydraulic Outlet	578	DC7932186	1	Mounting Plate
400	DC7204950	1	Assembly, Power Unit (See Fig. 5)	579	DC7230013	1	Plug, Adaptor
510	⌘ DC7829950	1	Assembly, Handle (See Fig. 4)	580	⌘⌘ B1007803	1	O-Ring
521	● DC7264037	1	Gasket	581	★⌘⌘ B1225503	1	O-Ring
522	● DC7470116	1	Muffling Foam	591	⌘⌘ CCA531028-1A	4	Screw, Soc Hd. M5 x 45mm
524	★ DC7797646	1	Hose	593	DD1154059	1	Dowel Pin, M6 x 26 mm
525	★ DC7881116	1	Muffler	610	⌘ A1007245	1	Plug (models w/o gauge)
526	★●⌘ DC7228870	4	Vibration Damper	623	★ CL344167	1	Gasket
527	●⌘ CCA521028-1A	2	Screw, SCHS, M5 x 20	624	★ B1118903	1	O-Ring
★ Items included in XA Seal Kit, XA1SK. ⌘ Items included in XA Eccentric Kit, XA1EC. ⌘ Item included in XA Handle Kit, XA1HAK.				● Item included in XA Lower Housing Kit, XA1LEK. ⌘ Items included in XA 4-Way Valve Kit, XA1MVK. ⌘ Items included in XA 4-Way Valve Seal Kit, XA1MVSK.			
Note: Kit parts are available only in kits (not sold separately).							

All versions except V and VG:



V and VG versions only:



Notes:

-  **1** Apply Loctite 277.
  **5** Torque to 8.1-8.9 Nm.
[6.0 - 6.5 ft-lbs]
-  **3** Torque to 2.0-2.9 Nm.
[1.5 - 2.1 ft-lbs]

Figure 3, Pedal Assembly

Repair Parts List for Figure 3

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
532	DC7834218	A/R	Pedal (release)	528	□ DC7835028-1A	A/R	Screw, M5-14 mm
533	DC7728059	1	Pedal Lock Pin	529	■ † BSS5509D	A/R	Spring, Conical
534	DC7268107	A/R	Pedal Hinge Pin	530	■ † DC7298020	A/R	Cap
535	□ DC7276218	A/R	Pedal Tread	531	DC7833218	1	Pedal (pressure)

† Items included in XA Air Valve Kit, XA1AVK.

■ Items included in XA Release Valve Kit, XA1RVK.

□ Items included in XA Pedal Tread Kit, XA1PTK.

Note: Kit parts are available only in kits (not sold separately). A/R = As Required.

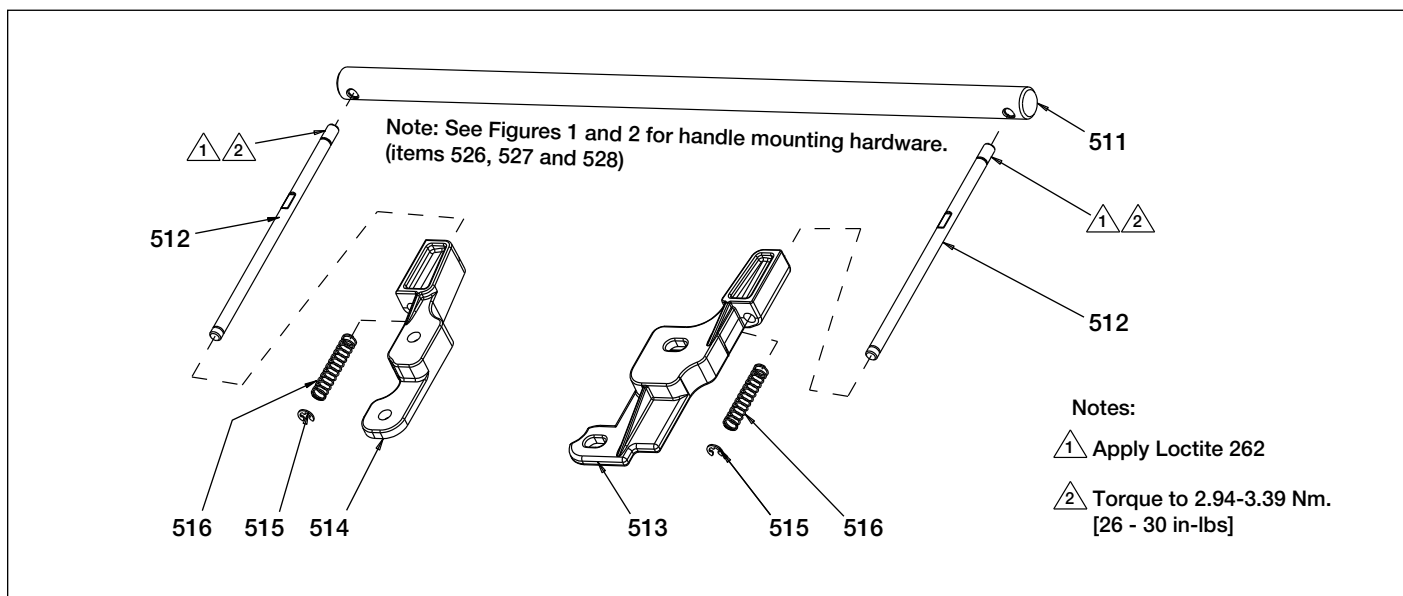
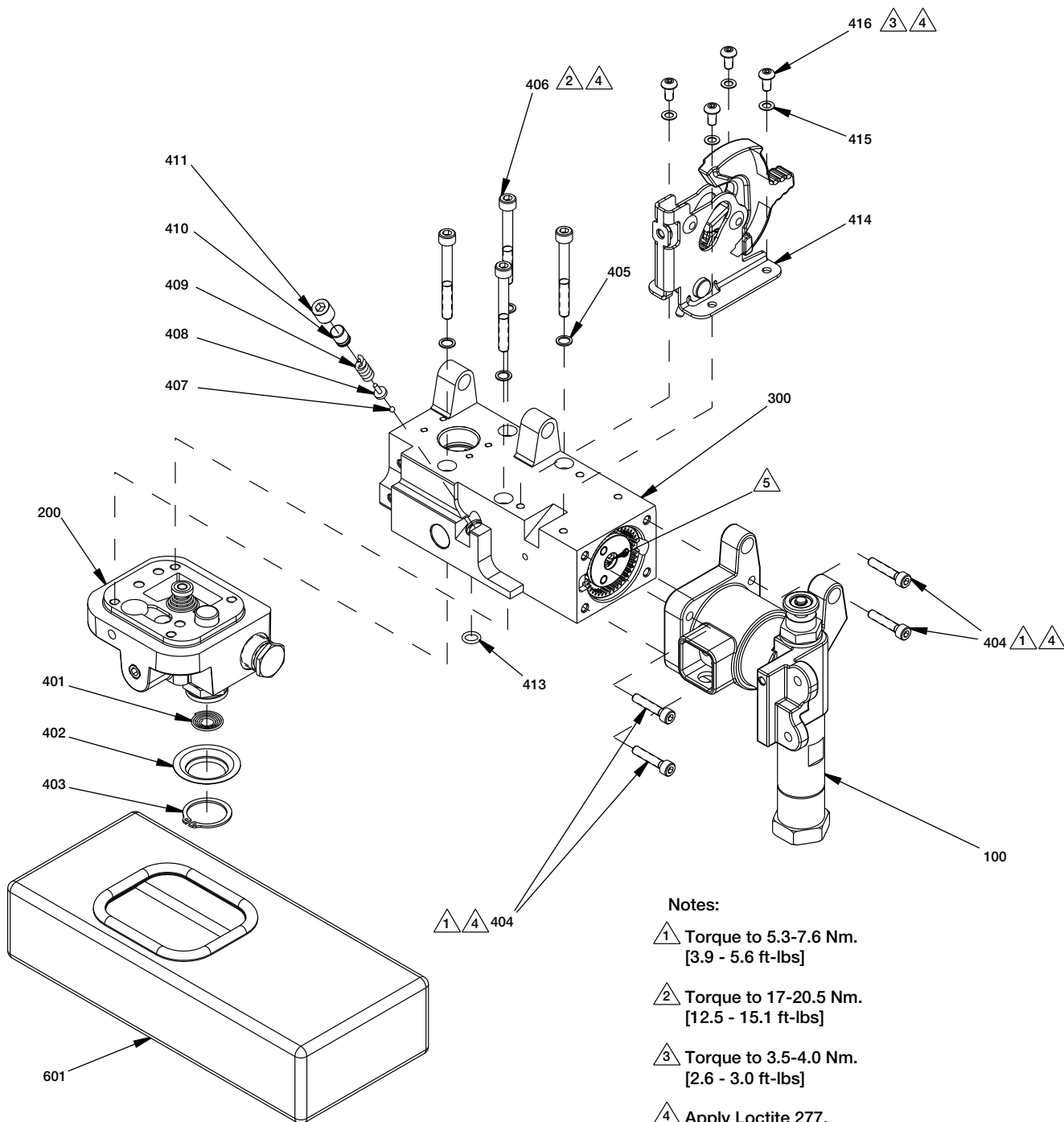


Figure 4, Handle Assembly

Repair Parts List for Figure 4

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
511	⊕ DC7726070	1	Handle, Front	514	⊕ DC7724111	1	Handle Bracket, Right
512	⊕ DC7725107	2	Extension, Front Handle	515	⊕ DC7754349	2	Ring, Retaining
513	⊕ DC7723111	1	Handle Bracket, Left	516	⊕ DC7749110	2	Spring, Handle

⊕ Items included in XA Handle Kit, XA1HAK. Kit parts are available only in kit (not sold separately).



- Notes:
- 1 Torque to 5.3-7.6 Nm.
[3.9 - 5.6 ft-lbs]
 - 2 Torque to 17-20.5 Nm.
[12.5 - 15.1 ft-lbs]
 - 3 Torque to 3.5-4.0 Nm.
[2.6 - 3.0 ft-lbs]
 - 4 Apply Loctite 277.
 - 5 Apply Tripak B.R. Grease.

Figure 5, Power Unit Assembly

Repair Parts List for Figure 5			
Item	Part Number	Qty.	Description
100	DC7208950	1	Assembly, Air Motor and Valve (See Fig. 12)
200	◆ DC7206950	1	Assembly, Pump Element (See Fig. 6)
300	❖ DC7207950	1	Assembly, Eccentric and Housing (See Fig. 10)
401	◆ BSS5509D	1	Spring, Conical
402	◆ DC7152018	1	Screen
403	◆ CCA1025044-1A	1	Ring, Retaining, 25 mm
404	❖✚ CCA523028-1A	4	SHCS, M5 x 25 mm LG
405	★◆❖▲▼ S3037	4	Gasket, Copper
406	◆❖▲▼ CCA635028-1A	4	Bolt, SHCS, M6 x 55
407	* B1003016	1	Ball, 1/8" Diameter
408	* A8038570	1	Ball Cap
409	* A8126110	1	Spring
410	* DC7903900	1	Subassembly, Plug and O-Ring (See Fig. 9)
411	* DC10131048	1	Set Screw, Cup Point
413	★◆❖▲▼ B1011803	1	O-Ring
414	► DC7828950	1	Assembly, Lock
415	► CCE1050108-6A	4	Washer, Star
416	► CBA513028-1E	4	Screw
601	▲ DC7289025	1	Bladder, 1 Liter
	▼ DC7360025	1	Bladder, 2 Liter
★ Items included in XA Seal Kit, XA1SK. ❖ Items included in XA Eccentric Kit, XA1EC. ✚ Items included in XA Air Motor Assembly Kit, XA1AMK. ◆ Items included in XA Pump Element Kit, XA1PEK.		▲ Items included in XA 1-Liter Bladder Kit, XA1B1LK. ▼ Items included in XA 2-Liter Bladder Kit, XA1B2LK. ► Items included in XA Lock Assembly Kit, XA1LAK. * Items included in UARV Assembly Kit, XA1UARVK.	
Note: Kit parts are available only in kits (not sold separately).			

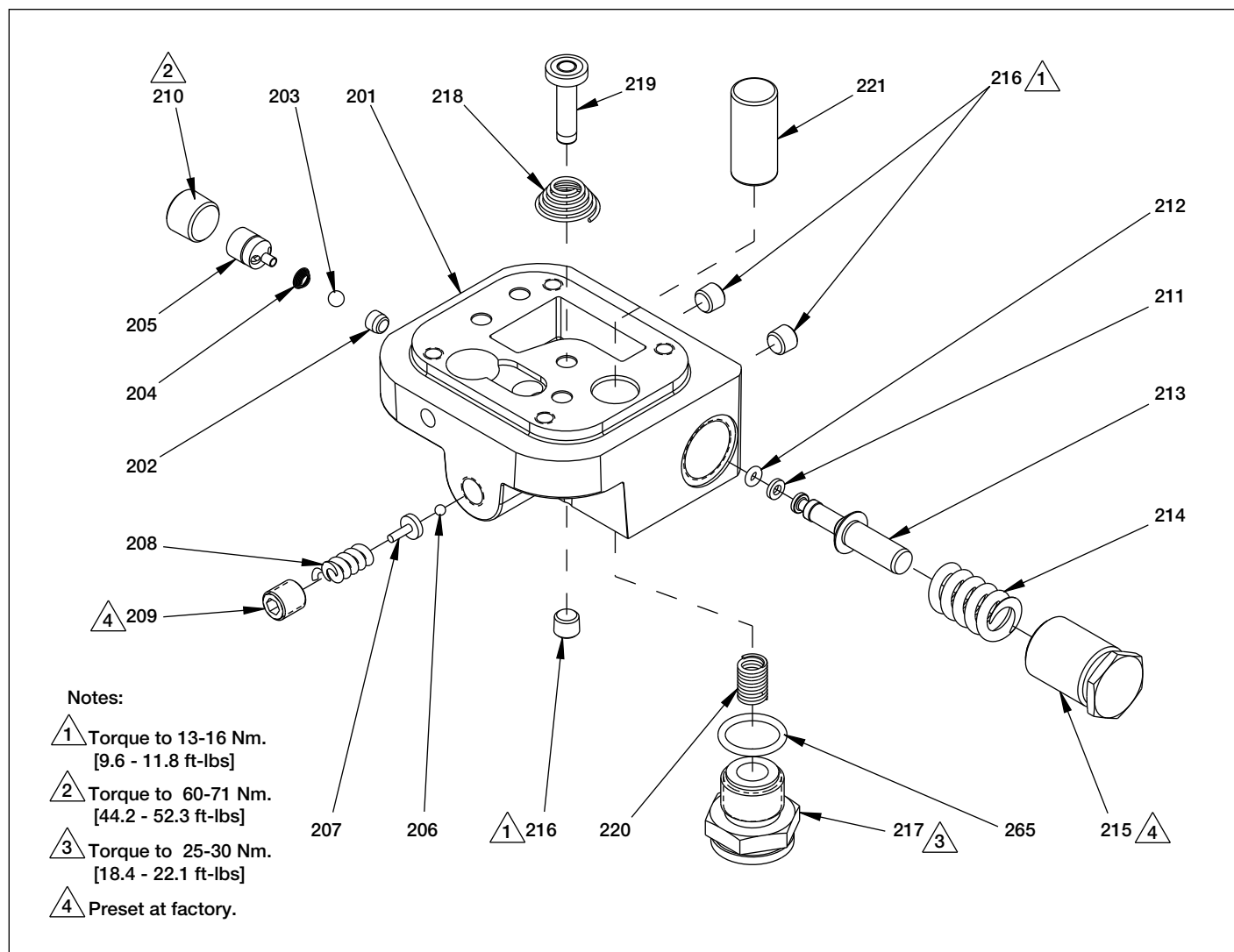


Figure 6, Element Assembly

Repair Parts List for Figure 6

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
201	◆ DC7201190	1	Body, Pump	212	◆ B1006803	1	O-Ring, 0.25" O.D.
202	◆ BSS5358D	1	Ball Seat, Inlet	213	◆ DC9292051	1	Piston, Bypass
203	◆ B1005016	1	Ball, 3/16" Dia.	214	◆ DC394110	1	Spring, Bypass
204	◆ BSS5809D	1	Spring	215	◆ DC9208020	1	End Cap, Bypass
205	◆ DC7904900	1	Assy, Outlet Check	216	◆ A1006245	3	Plug, Flush 1/16"
206	◆ B1003016	1	Ball, 1/8" Dia	217	◆ DC7453950	1	Assy, Inlet Chk (See Fig. 8)
207	◆ A8038570	1	Ball Cap	218	◆ BSS5509D	1	Spring, Conical
208	◆ A8126110	1	Spring	219	◆ DC9244920	1	Piston, 6 mm Dia
209	◆ DC1185048	1	Set Screw, Soc. Hd. Hollow	220	◆ DC7026110	1	Spring, Large Piston
210	◆ DC6794245	1	Plug, NPTF 1/4"	221	◆ DC7027051	1	Piston, 14 mm Dia
211	◆ B1006564	1	Washer, B/U	265	◆ B1908503	1	O-Ring

◆ Items included in XA Pump Element Kit, XA1PEK. Kit parts are available only in kit (not sold separately).

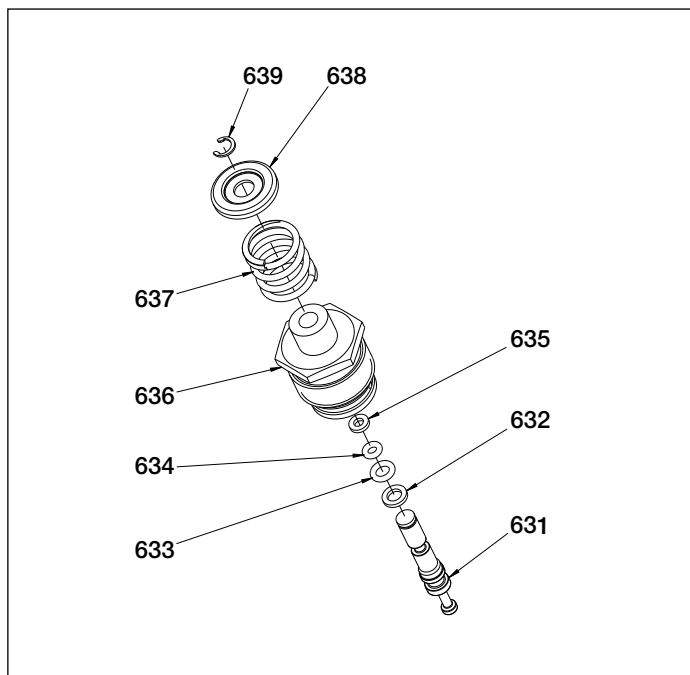


Figure 7, Release Valve Assembly

Repair Parts List for Figure 7			
Item	Part Number	Qty.	Description
631	■ DC7869040	1	Plunger, Release Valve
632	★ ■ B1008564	1	Washer, Back-up
633	★ ■ B1003503	1	O-Ring
634	★ ■ B1001503	1	O-Ring
635	★ ■ B1006564	1	Washer, Back-up
636	■ DC7180013	1	Guide, Release
637	■ DC7433110	1	Release, Spring
638	■ DA4848108	1	Washer, Spring
639	★ ■ DA5025349	1	Ring, Retaining
★ Items included in XA Seal Kit, XA1SK. ■ Items included in XA Release Valve Kit, XA1RVK. Note: Kit parts are available only in kits (not sold separately).			

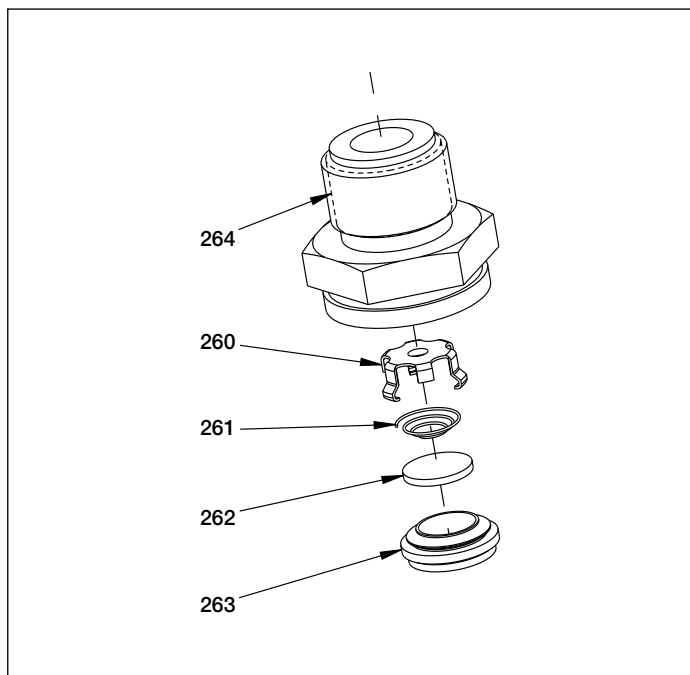


Figure 8, Inlet Check Valve Assembly

Repair Parts List for Figure 8			
Item	Part Number	Qty.	Description
260	CN517017	1	Clip, Spring
261	CN500110	1	Spring, Inlet Check
262	CN507071	1	Disc
263	CN514290	1	Seat
264	DC7037006	1	Plug, Hex Head

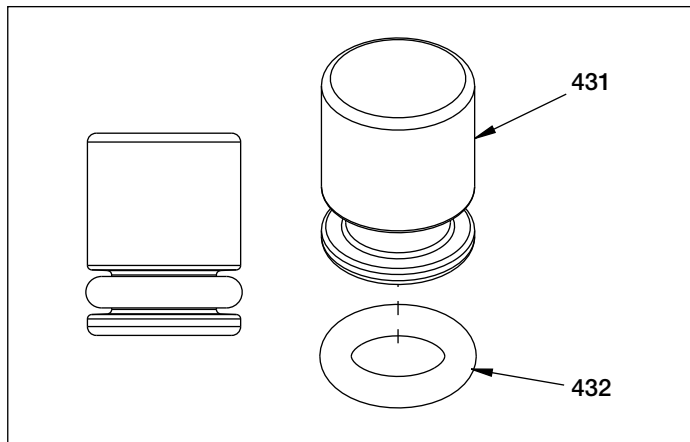


Figure 9, Plug and O-Ring Subassembly

Repair Parts List for Figure 9			
Item	Part Number	Qty.	Description
431	*DC7234009	1	Plug
432	*B1004503	1	O-Ring
* Items included in UARV Assembly Kit, XA1UARVK. Note: Kit parts are available only in kits (not sold separately).			

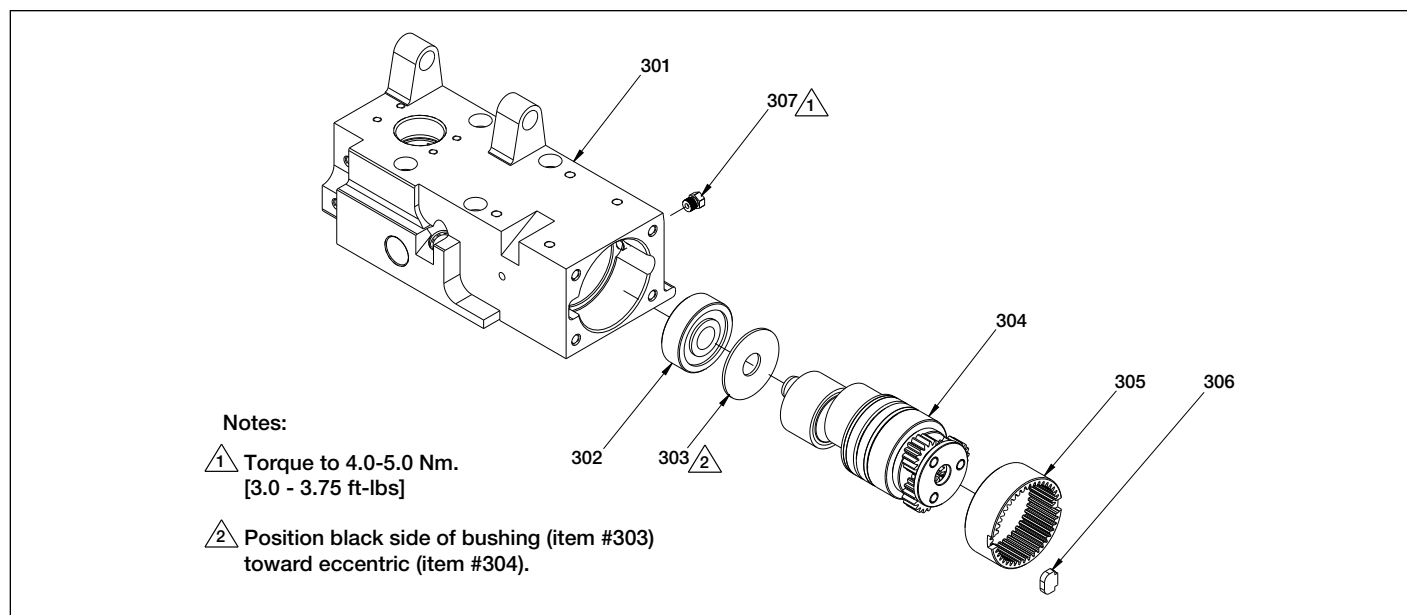


Figure 10, Eccentric and Housing Assembly

Repair Parts List for Figure 10							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
301	❖ DC7686001	1	Housing, Eccentric	305	❖ DC7089228	1	Gear Ring
302	❖ DC7096155	1	Bearing	306	❖ DC7452251	1	Key, Gear Ring
303	❖ DC7464108	1	Bushing 12 x 7 x 1.5	307	❖ DC7734431	1	Fitting, Grease
304	❖ DC7177950	1	Assy, Ecc Shaft (See Fig. 11)				
❖ Items included in XA Eccentric Kit, XA1EC. Kit parts are available only in kit (not sold separately).							

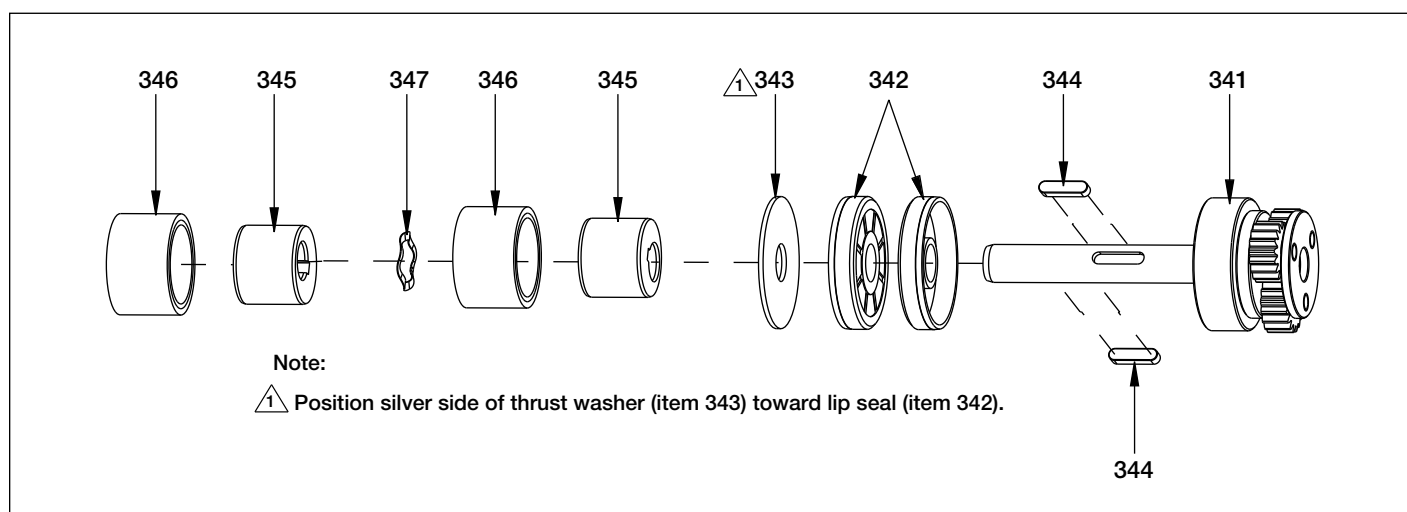


Figure 11, Eccentric Shaft Assembly

Repair Parts List for Figure 11							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
341	DC7870950	1	Subassembly, Eccentric Shaft	345	DC7117537	2	Eccentric
342	DC7090476	2	Lip Seal	346	DC7755950	2	Subassembly, Cam
343	DC7186108	1	Washer, Thrust	347	DC7750410	1	Spring, Wave
344	DC7191251	2	Key				
Note: Item 341 is available only as a complete subassembly.							

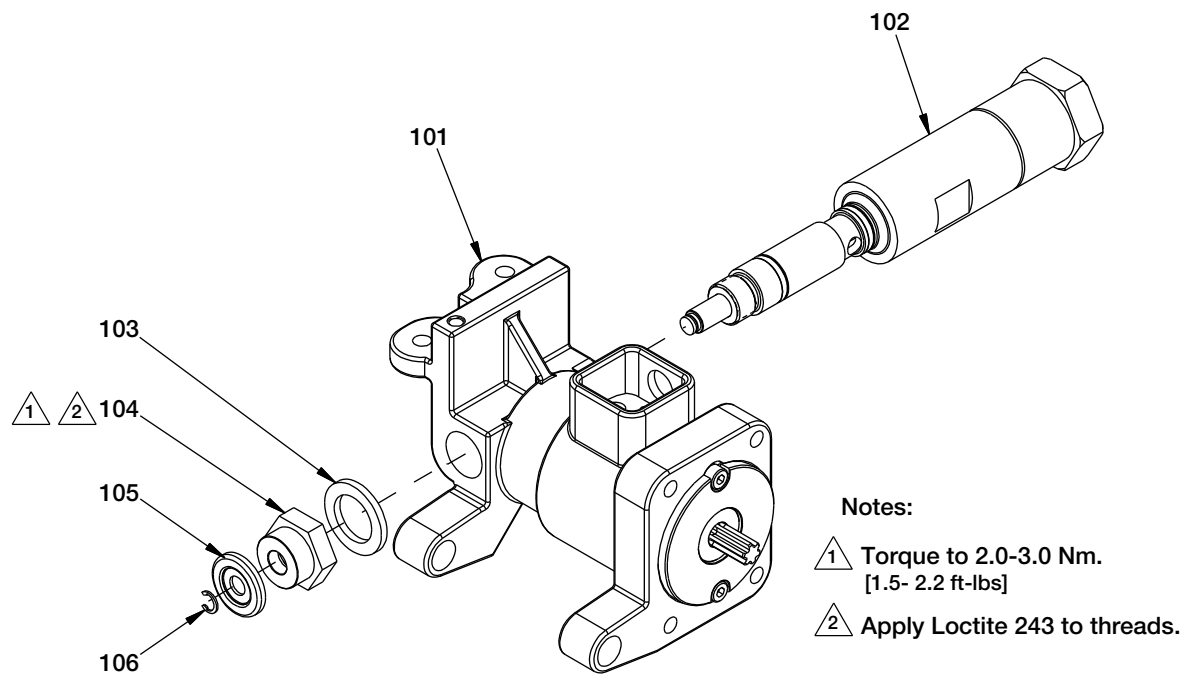


Figure 12, Air Motor and Valve Assembly

Repair Parts List for Figure 12

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
101	✚ DC7469950	1	Assy, Air Motor (See Fig. 13)	104	† DC7484186	1	Spacer
102	† DC7315950	1	Assy, Air Valve (See Fig. 14)	105	† DA4848108	1	Washer, Spring
103	★† DC7463108	1	Washer, Thrust	106	† DA5025349	1	Ring, Retaining

★ Items included in XA Seal Kit, XA1SK.

✚ Items included in XA Air Motor Assembly Kit, XA1AMK.

† Items included in XA Air Valve Kit, XA1AVK.

Note: Kit parts are available only in kits (not sold separately).

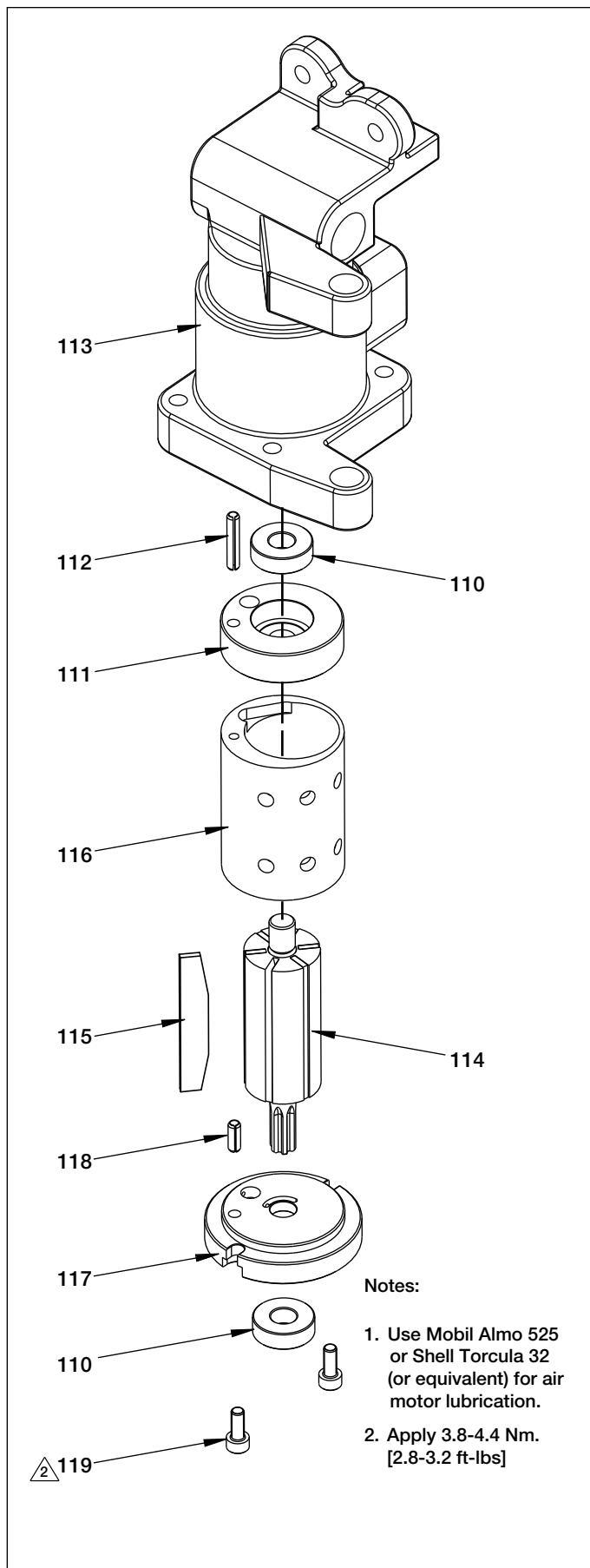


Figure 13, Air Motor Assembly

Repair Parts List for Figure 13

Item	Part Number	Qty.	Description
110	+ DC7167155	2	Bearing, Ball
111	+ DC7165101	1	Plate, End
112	+ CCA0311057-1A	1	Pin, Spring.
113	+ DC7351001	1	Housing, Airmotor
114	+ DC7149257	1	Rotor
115	+ DC7150814	6	Vane
116	+ DC7168030	2	Cylinder
117	+ DC7169101	1	Plate, Front
118	+ CCA0309057-1A	1	Pin, Spring
119	+ CCA415028-1A	2	Bolt, M4

+ Items included in XA Air Motor Assembly Kit, XA1AMK. Includes motor mounting capscrews (see Figure 5, Item 404).

Note: Kit parts are available only in kits (not sold separately).

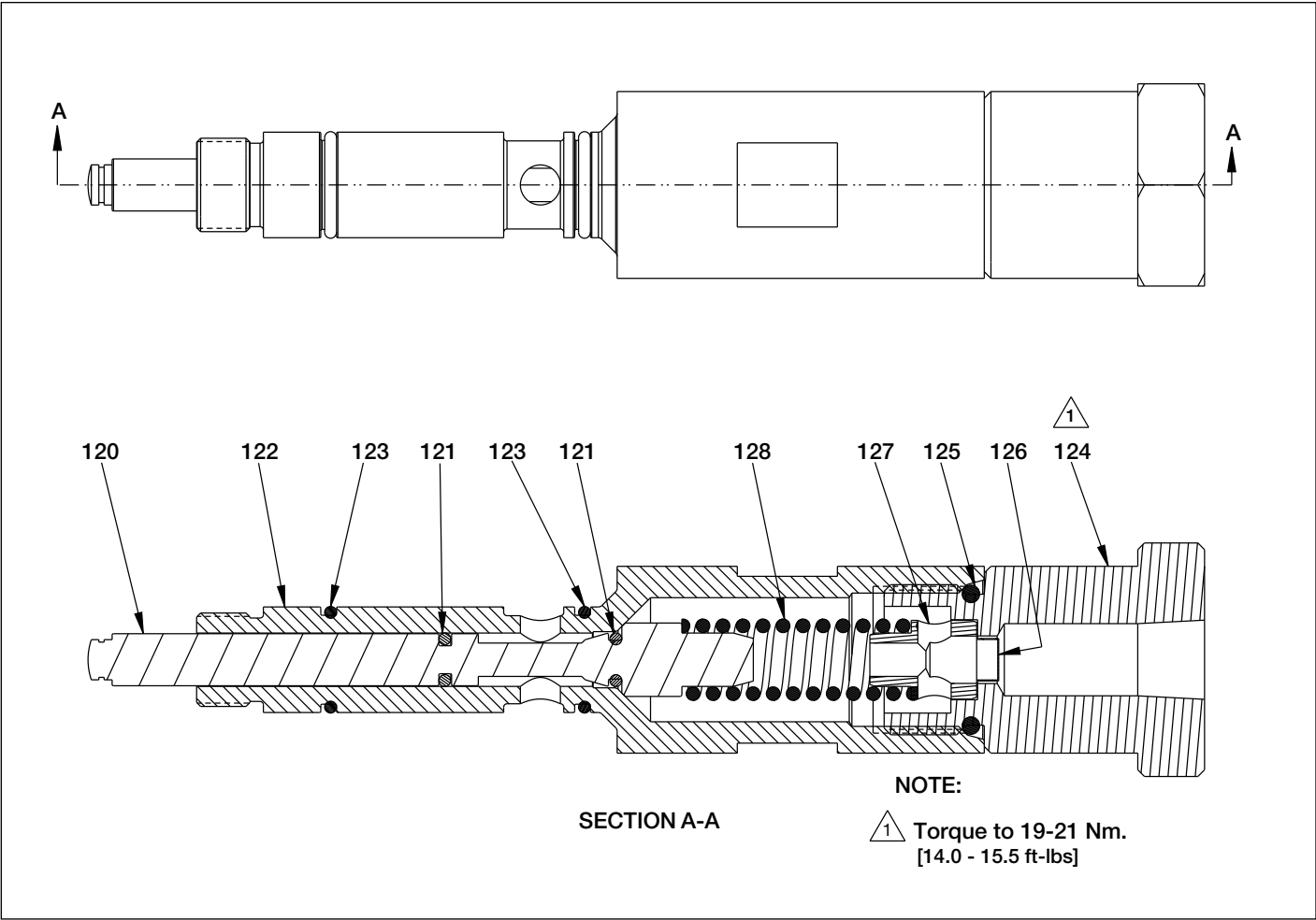


Figure 14, Air Valve Assembly

Repair Parts List for Figure 14							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
120	† DC7314104	1	Rod, Valve	125	★† B1013503	1	O-Ring
121	★† B1003503	2	O-Ring	126	★† A8001018	1	Screen, Filter
122	† DC7312190	1	Cartridge, Air Valve	127	† DC7875186	1	Spacer, Filter
123	★† B1220503	2	O-Ring	128	† DC7197110	1	Spring, Air Valve
124	† DC7313270	1	Cap, End				
★ Items included in XA Seal Kit, XA1SK. † Items included in XA Air Valve Kit, XA1AVK. Note: Kit parts are available only in kits (not sold separately).							

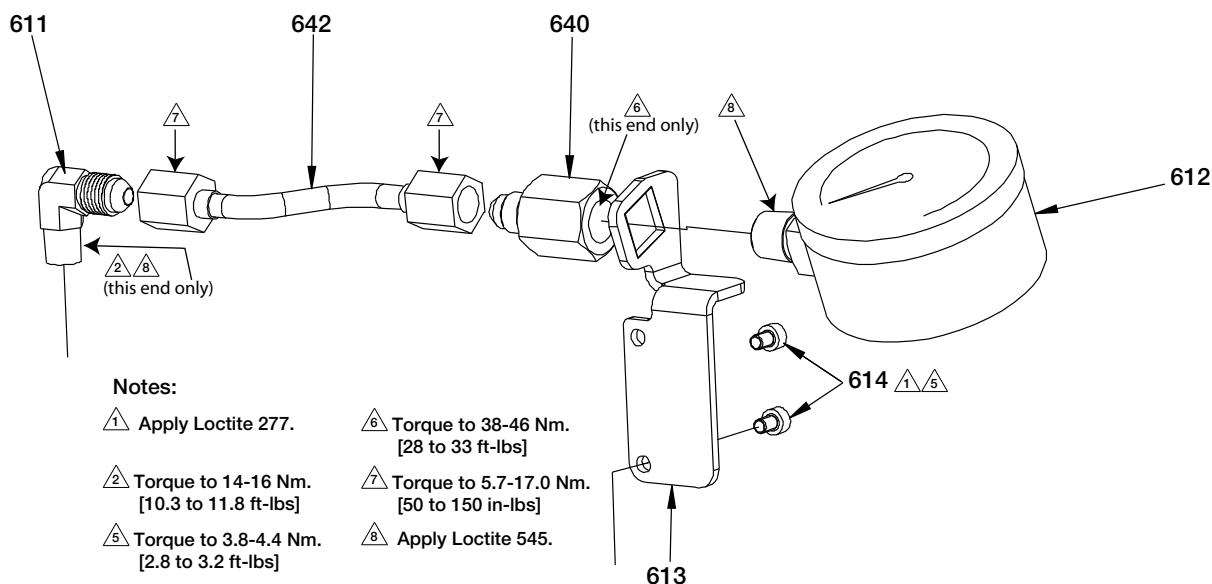
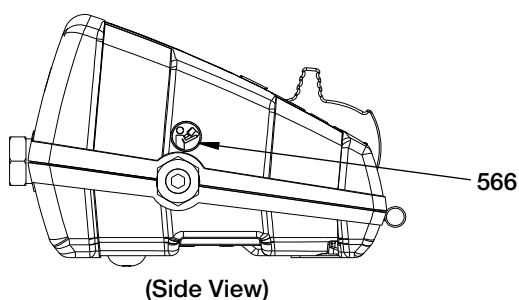


Figure 15, Gauge and Bracket Assembly

Repair Parts List for Figure 15

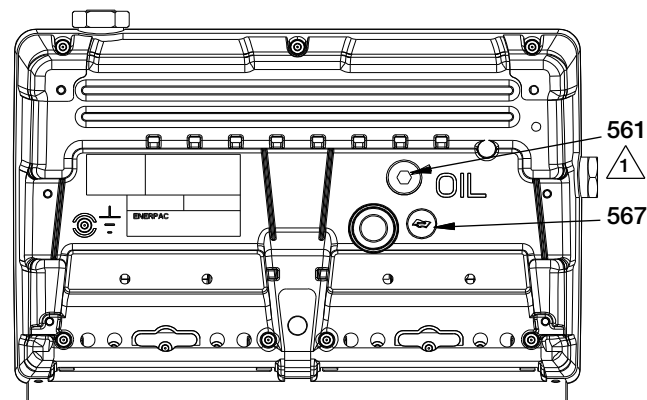
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
611	F100094-83	1	Elbow, Gauge	614	CBE413028-1A	2	Screw, SHCS M4 x 8 mm
612	* DD1060223	1	Gauge	640	* F100094-8	1	Fitting, Straight, 1/4
613	DC10130111	1	Bracket (XA11G and VG only)	642	DD1069268	1	Tube, Gauge, 1L SAP
	DD1126111	1	Bracket (XA12G and VG only)		DD1127268	1	Tube, Gauge, 2L SAP

* Items included in XA Gauge Kit, XA1GK. Kit parts are available only in kit (not sold separately).



Note:

- ① Torque to 16-20 Nm. [11.8 - 14.8 ft-lbs]



Repair Parts List for Figure 16

Item	Part Number	Qty.	Description
561	★❖ DC7737009	1	Cap, Fill
566	☆ DC7887026	1	Decal, Read Instructions
567	☆ DC7888026	1	Decal, Service Tech

★ Items included in XA Seal Kit, XA1SK.

❖ Items included in XA Eccentric Kit, XA1EC.

☆ Items included in XA Decal Kit, XA1DK.

Note: Kit parts are available only in kits (not sold separately).

Figure 16, Caps and Decals

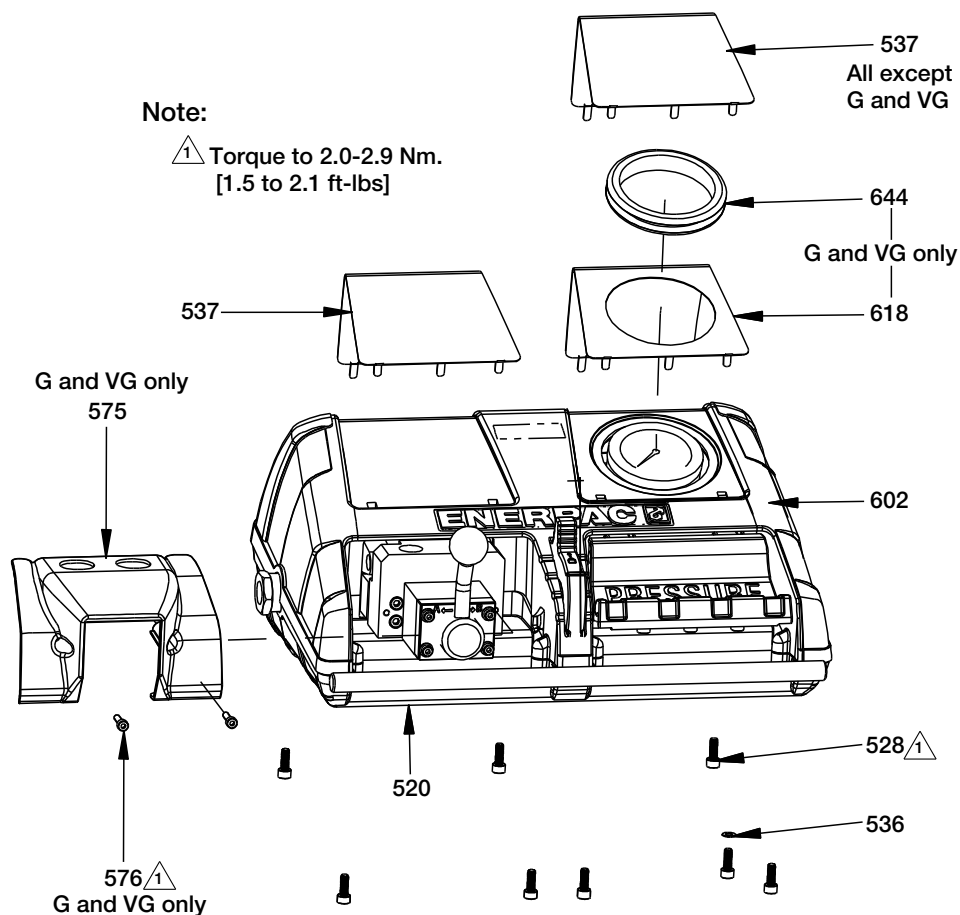


Figure 17, Cover Assembly

Repair Parts List for Figure 17			
Item	Part Number	Qty.	Description
520	● DC7279001	1	Housing, Lower
528	◆●■ DC7835028-1A	8	Screw, M5-14 mm
536	● CCE1050108-6A	1	Starwasher (for ground screw)
537	◆ DD1110225	A/R	Cap, 1L (no hole)
	■ DC7479225	A/R	Cap, 2L (no hole)
575	DD1067424	1	Shroud, 4-Way Valve
576	CBE419028-1A	2	Screw, M4 X 16 mm
602	◆ DC7284001	1	Upper Housing, 1L
	■ DC7775001	1	Upper Housing, 2L
618	◆ DC7259225	A/R	Cap 1L (with hole)
	■ DC7478225	A/R	Cap 2L (with hole)
644	◆■ DC10132808	1	Grommet
◆ Items included in XA11 Upper Housing Kit, XA1UE1LK. ■ Items included in XA12 Upper Housing Kit, XA1UE2LK. ● Item included in XA Lower Housing Kit, XA1LEK. Note: Kit parts are available only in kits (not sold separately). A/R = As Required			

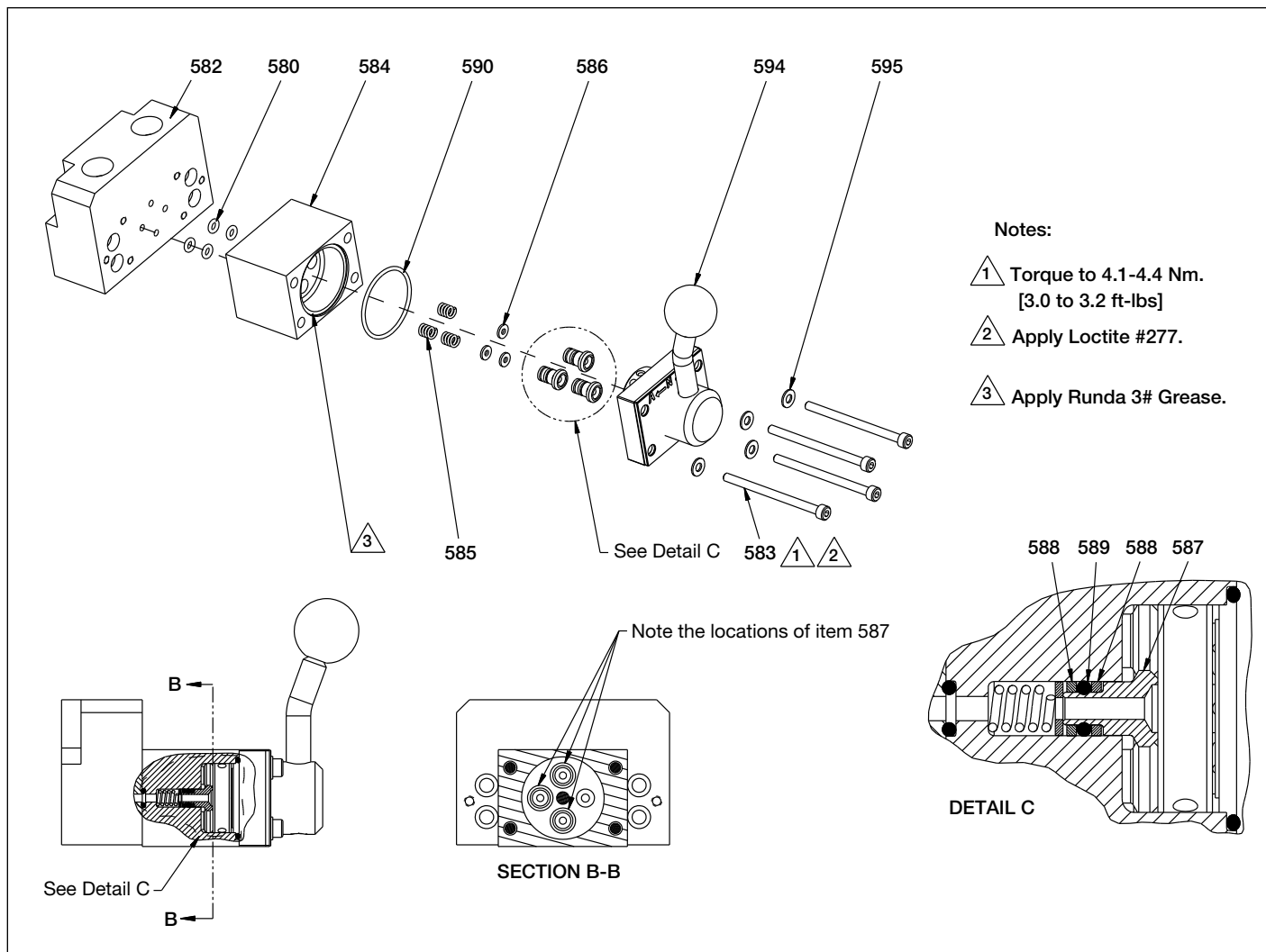


Figure 18, 4-Way Valve Assembly

Repair Parts List for Figure 18

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
580	❖❖ B1007803	4	O-Ring	587	❖❖ DA11071041	3	Shear Seal Poppet
582	❖ DC7387690	1	Manifold, 3/8" Ports	588	❖❖ DA7285566	6	Washer, Back-up
583	❖❖ CBE437028-1A	4	SHCS, M4 x 60 mm Lg.	589	❖❖ B1002503	3	O-Ring
584	❖ DC5026690	1	Valve Body, 4-Way	590	❖❖ B1233503	1	O-Ring
585	❖❖ DA7286110	3	Spring, Compression	594	❖ DC3729900	1	Selector (See Fig. 19)
586	❖❖ DA7287108	3	Washer	595	❖ CAE1040108-1A	4	Washer, M4

❖ Items included in XA 4-Way Valve Seal Kit, XA1MVSK.

❖ Items included in XA 4-Way Valve Kit, XA1MVK.

Note: Kit parts are available only in kits (not sold separately).

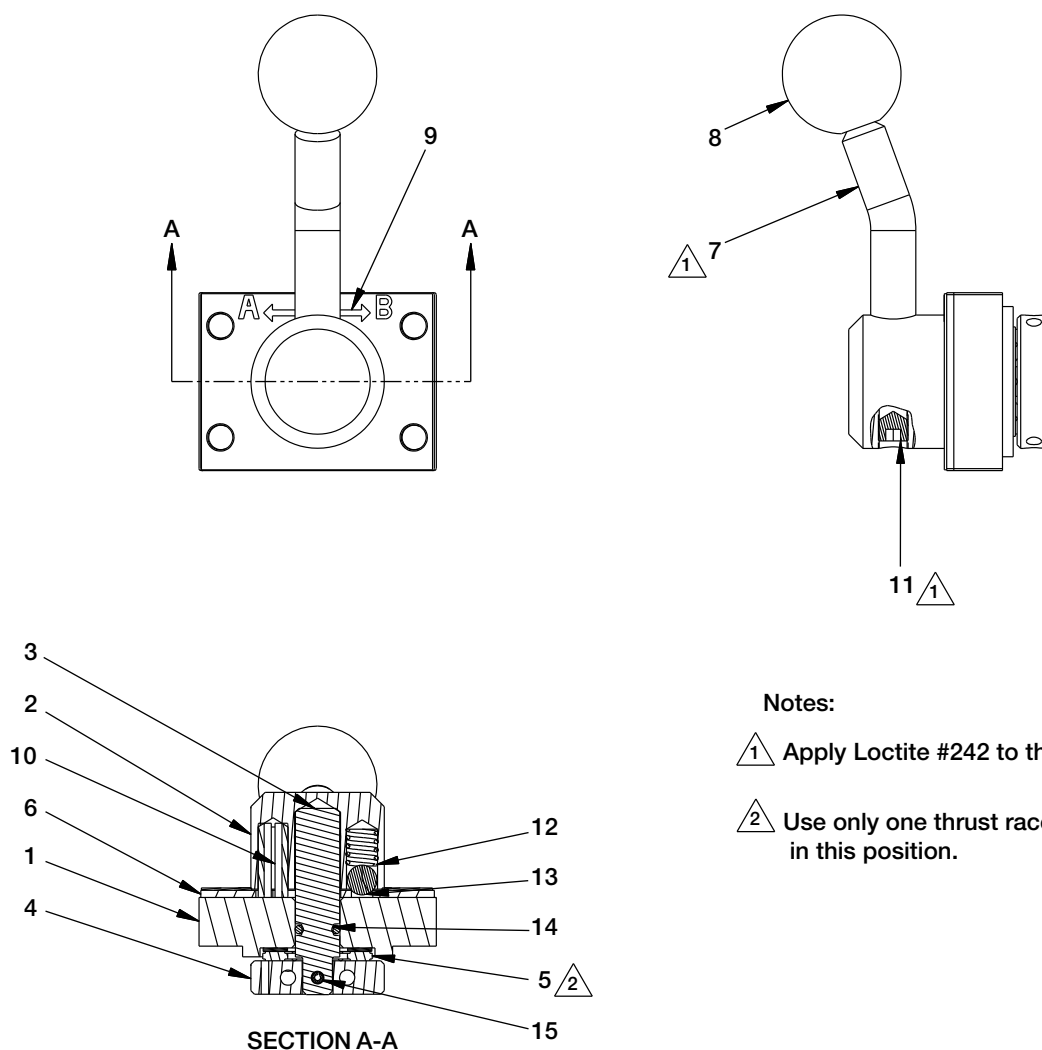


Figure 19, Selector Assembly, 4-Way Valve

Repair Parts List for Figure 19

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	DA7299098	1	Cover	9	DC1353026	1	Decal, A-N-B
2	DA7297815	1	Hub	10	B1126057	1	Roll Pin
3	DC703104	1	Shaft	11	✦ BF2504027B	2	Set Screw
4	DA7289900	1	Plug and Disc Assembly	12	✦ A8161110	1	Spring
5	✦ C940155	1	Bearing	13	✦ B1007016	1	Ball, 1/4" Dia.
6	DA7298101	1	Detent	14	✦ B1005503	1	O-Ring
7	DA9345070	1	Handle	15	B1040057	1	Spring Pin
8	DA6951147	1	Knob				

✦ Items included in XA 4-Way Valve Seal Kit, XA1MVSK.
Note: Kit parts are available only in kits (not sold separately).

Note: For additional Enerpac XA-Series information, go to:

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