



FMCE Flange Mounted Clutch

Models 625, 875, 1125 and 1375

In accordance with Nexen's established policy of constant product improvement, the specifications contained in this manual are subject to change without notice. Technical data listed in this manual are based on the latest information available at the time of printing and are also subject to change without notice.

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WARNING

Read this manual carefully before installation and operation.

Follow Nexen's instructions and integrate this unit into your system with care.

This unit should be installed, operated and maintained by qualified personnel **ONLY**.

Improper installation can damage your system or cause injury or death.

Comply with all applicable codes.

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INSTALLATION

NOTE

The following sections are arranged by model. Verify that you are in the correct section for your model.

FMCE 625 MOUNTED ON THE SHAFT END OF A MOTOR

NOTE

Align the air inlet on the FMCE, to a down position to allow condensation to drain out of the air chamber.

1. Insert the customer supplied key into the motor shaft keyway (See Figure 1).
2. Slide the FMCE onto the motor shaft and secure it to the motor using Nexen supplied Socket Head Cap Screws (Item 29) and Lock Washers (Item 30) (See Figure 1).
3. Alternately and evenly tighten the Socket Head Cap Screws (Item 29) to 580 In. Lbs. [65.0 N•m] torque.
4. Align the Set Screw (Item 26) in the Drive Disc (Item 4) with the hole in the FMCE Housing (See Figure 1).
5. Tighten the Set Screw (Item 26); then, install the Plug (Item 27) (See Figure 1).

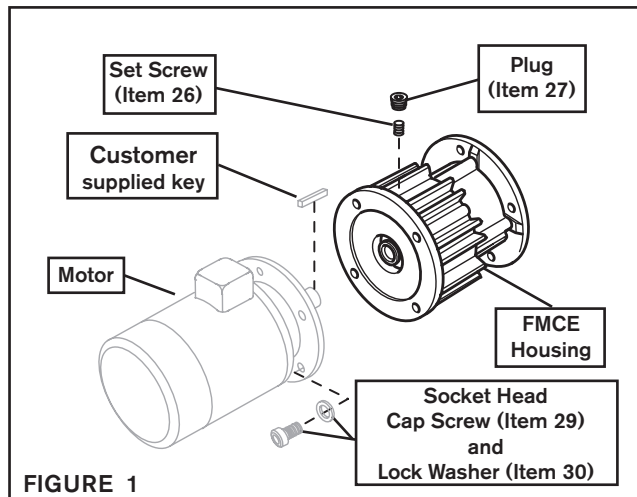


FIGURE 1

FMCE 875, 1125, AND 1375 MOUNTED ON THE SHAFT END OF A MOTOR

NOTE

Align the air inlet on the FMCE, to a down position to allow condensation to drain out of the air chamber.

1. Insert the customer supplied key into the motor shaft keyway (See Figure 2).
2. Remove the Socket Head Cap Screws (Item 24) and the Female Pilot (Item 13); then, secure the Female Pilot to the motor face using Nexen supplied Socket Head Cap Screws (Item 29) and Lock Washers (Item 30) (See Figure 2).
3. Alternately and evenly tighten the Socket Head Cap Screws (Item 29) to the recommended torque (See Table 1).
4. Slide the Female Pilot (Item 13) onto the motor shaft (See Figure 2).
5. Apply a drop of Loctite® 242 to the threads of the Socket Head Cap Screws (Item 24) (See Figure 2).
6. Secure the FMCE Housing (Item 1) to the Female Pilot (Item 13) using Socket Head Cap Screws (Item 24); then, alternately and evenly tighten the Socket Head Cap Screws to the recommended torque (See Figure 2 and Table 1).
7. Align the Set Screw (Item 26) in the Drive Disc (Item 4) with the hole in the FMCE Housing (See Figure 2).
8. Tighten the Set Screw (Item 26); then, install the Plug (Item 27) (See Figure 2).

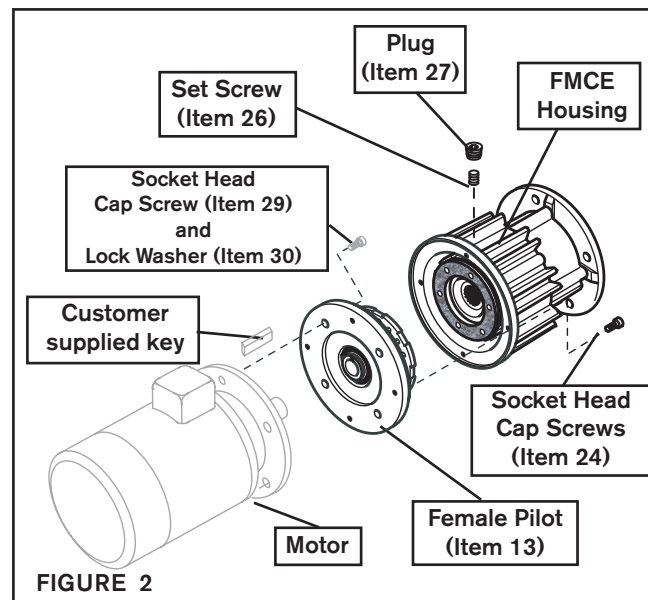


FIGURE 2

RECOMMENDED TIGHTENING TORQUE

MODEL	TIGHTENING TORQUE
FMCE 875 (Item 24)	157 In. Lbs. [17.7 N m]
FMCE 1125 (Item 24)	267 In. Lbs. [30.2 N m]
FMCE 1375 (Item 24)	580 In. Lbs. [65.0 N m]
FMCE 875 (Item 29)	580 In. Lbs. [65.0 N m]
FMCE 1125 (Item 29)	1425 In. Lbs. [159.6 N m]
FMCE 1375 (Item 29)	1425 In. Lbs. [159.6 N m]

TABLE 1

FMCE 625 MOUNTED BETWEEN A GEAR REDUCER AND A MOTOR

NOTE
Align the air inlet on the FMCE, to a down position to allow condensation to drain out of the air chamber.

1. Insert the Key (Item 25) into the output shaft of the FMCE (See Figure 3).
2. Slide the FMCE output shaft into the gear reducer (See Figure 3).
3. Secure the FMCE to the gear reducer using customer supplied socket head cap screws, lock washers, and nuts (See Figure 3).
4. Insert the customer supplied key into the motor shaft keyway (See Figure 3).
5. Slide the motor into the FMCE and secure it to the FMCE using Nexen supplied Socket Head Cap Screws (Item 29) and Lock Washers (Item 30) (See Figure 3).
6. Alternately and evenly tighten the Socket Head Cap Screws (Item 29) to 580 In. Lbs. [65.0 N•m] torque.
7. Align the Set Screw (Item 26) in the Drive Disc (Item 4) with the hole in the FMCE Housing (See Figure 3).
8. Tighten the Set Screw (Item 26); then, install the Plug (Item 27) (See Figure 3).

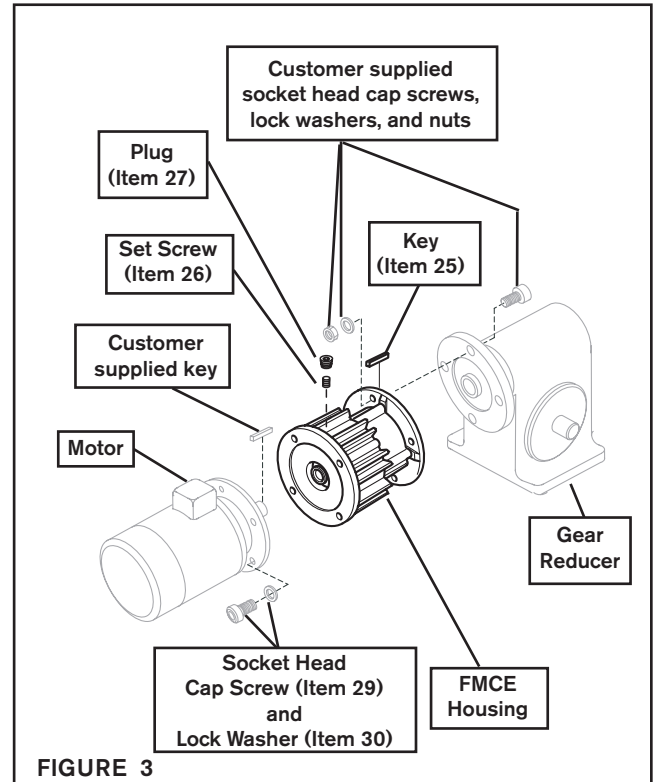


FIGURE 3

FMCE 875, 1125, AND 1375 MOUNTED BETWEEN A GEAR REDUCER AND A MOTOR

NOTE
Align the air inlet on the FMCE, to a down position to allow condensation to drain out of the air chamber.

1. Insert the Key (Item 25) into the output shaft of the FMCE (See Figure 4).
2. Slide the FMCE output shaft into the gear reducer (See Figure 4).
3. Secure the FMCE to the gear reducer using customer supplied socket head cap screws, lock washers, and nuts (See Figure 4).
4. Insert the customer supplied key into the motor shaft keyway (See Figure 4).
5. Remove the Socket Head Cap Screws (Item 24) and the Female Pilot (Item 13); then, secure the Female Pilot to the motor face using Nexen supplied Socket Head Cap Screws (Item 29) and Lock Washers (Item 30); then, alternately and evenly tighten the Socket Head Cap Screws to the recommended torque (See Figure 4 and Table 2).
6. Slide the Female Pilot (Item 13) onto the motor shaft (See Figure 4).
7. Apply a drop of Loctite® 242 to the threads of the Socket Head Cap Screws (Item 24) (See Figure 4).

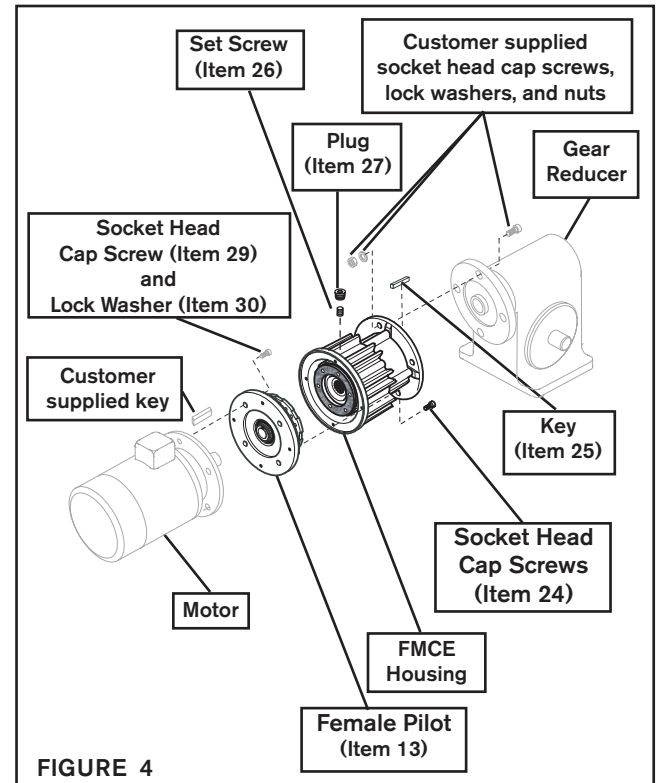


FIGURE 4

8. Secure the FMCE Housing (Item 1) to the Female Pilot (Item 13) using Socket Head Caps Screws (Item 24). Then, alternately and evenly tighten the Socket Head Cap Screws to the recommended torque (See Figure 4 and Table 2).
9. Align the Set Screw (Item 26) in the Drive Disc (Item 4) with the hole in the FMCE Housing (See Figure 4).
10. Tighten the Set Screw (Item 26); then, install the Plug (Item 27) (See Figure 4).

RECOMMENDED TIGHTENING TORQUE	
MODEL	TIGHTENING TORQUE
FMCE 875 (Item 24)	157 In. Lbs. [17.7 N m]
FMCE 1125 (Item 24)	267 In. Lbs. [30.2 N m]
FMCE 1375 (Item 24)	580 In. Lbs. [65.0 N m]
FMCE 875 (Item 29)	580 In. Lbs. [65.0 N m]
FMCE 1125 (Item 29)	1425 In. Lbs. [159.6 N m]
FMCE 1375 (Item 29)	1425 In. Lbs. [159.6 N m]

TABLE 2

AIR CONNECTIONS

NOTE

For quick response, Nexen recommends a quick exhaust valve and short air lines between the Control Valve and the FMCE. Align the air inlet port to a down position to allow condensation to drain out of the air chamber of the FMCE.

LUBRICATION

NOTE

Pneumatically actuated devices require clean, pressure regulated, and lubricated air for maximum performance and long life. The most effective and economical way to lubricate the FMCE is with an Air Line Lubricator, which injects oil into the pressurized air, forcing an oil mist into the air chamber.

Locate the lubricator above and within ten feet of the FMCE, and use a low viscosity oil such as SAE-10.

Synthetic lubricants are not recommended.

LUBRICATOR DRIP RATE SETTINGS

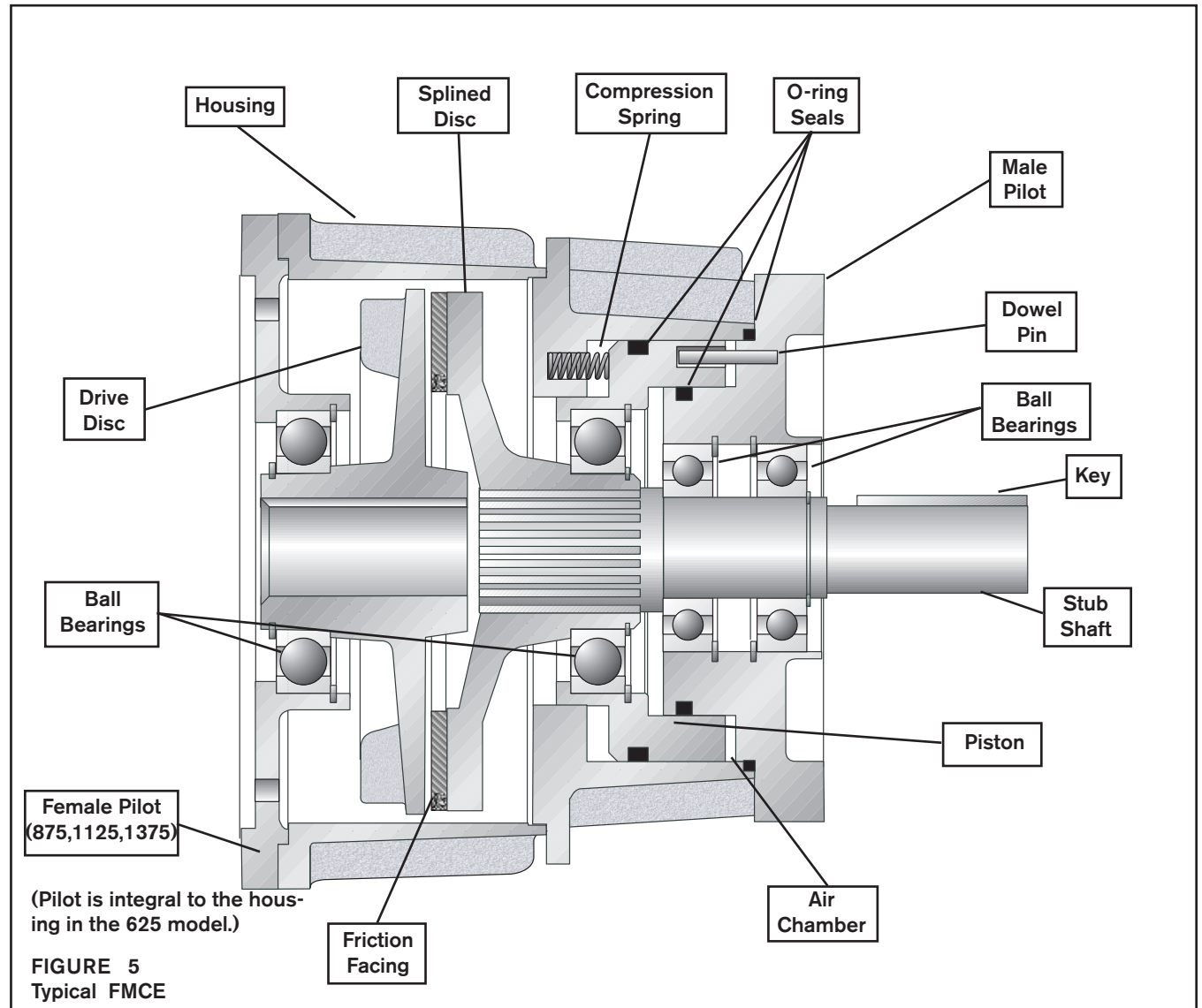
NOTE

These settings are for Nexen supplied lubricators. If you are not using a Nexen lubricator, calibration must replicate the following procedure.

1. Close and disconnect the air line from the unit.
2. Turn the Lubricator Adjustment Knob clockwise three complete turns.
3. Open the air line.
4. Close the air line to the unit when a drop of oil forms in the Lubricator Sight Gage.
5. Connect the air line to the unit.
6. Turn the Lubricator Adjustment Knob counterclockwise until closed.
7. Turn the Lubricator Adjustment Knob clockwise one-third turn.
8. Open the air line to the unit.

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	SOLUTION
Failure to engage.	Air not getting to the FMCE due to a control valve malfunction.	Check for a control valve malfunction or low air pressure and replace the control valve if necessary.
	Lack of lubrication on the Stub Shaft spline.	Lubricate the Stub Shaft spline.
	Air leaks around the O-ring Seals.	Replace the O-ring Seals.
Failure to disengage.	Unexhausted air due to a control valve malfunction.	Check for a control valve malfunction and replace the control valve if necessary.
	Weak or damaged Compression Springs.	Replace the Compression Springs.
	Lack of lubrication on the Stub Shaft spline.	Lubricate the Stub Shaft spline.
Loss of Torque.	Air leaks around the O-ring Seals.	Replace the O-ring Seals.
	Worn or dirty Friction Facing.	Replace the Friction Facing.



PARTS REPLACEMENT-FRICTION FACING (ALL MODELS)

1. Remove the four Socket Head Cap Screws (Item 12) and separate the two halves of the FMCE (See Figure 6).
2. Remove the six old Flat Head Screws (Item 7) and the old Friction Facing (Item 8) (See Figure 6).
3. Install the new Friction Facing (Item 8) and new Flat Head Screws (Item 7) (See Figure 6).
4. Tighten the six new Flat Head Screws to the recommended torque (See Table 3).
5. Apply a drop of Loctite 242 to the threads of the Socket Head Cap Screws (Item 12) (See Figure 6).
6. Reinstall and tighten the four Socket Head Cap Screws (Item 12) to the recommended torque (See Table 4).

Model	Recommended Tightening Torque for (Item 7)
FMCE 625	26 In. Lbs. [2.9 Nm]
FMCE 875	26 In. Lbs. [2.9 Nm]
FMCE 1125	71 In. Lbs. [8.0 Nm]
FMCE 1375	71 In. Lbs. [8.0 Nm]

TABLE 3

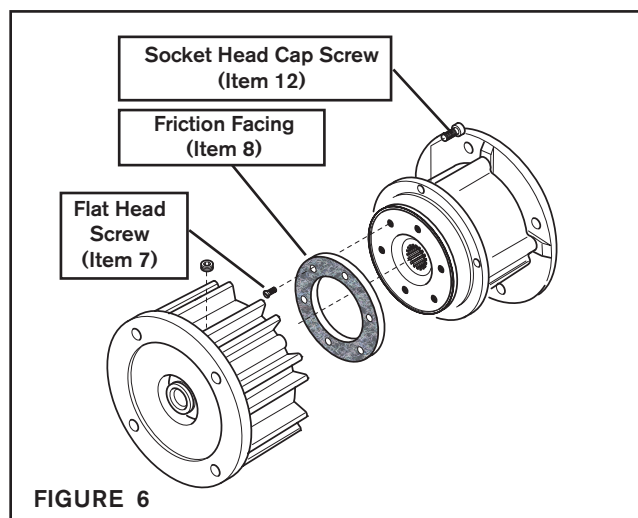


FIGURE 6

Model	Recommended Tightening Torque for (Item 10)
FMCE 625	157 In. Lbs. [17.7 Nm]
FMCE 875	266 In. Lbs. [30.0 Nm]
FMCE 1125	266 In. Lbs. [30.0 Nm]
FMCE 1375	594 In. Lbs. [55.5 Nm]

TABLE 4

PARTS REPLACEMENT-HOUSING BEARING, MODEL FMCE 625

NOTE

If an Input Unit is installed on the FMCE, it must be removed before servicing the FMCE. Remove the Plug (Item 27) and loosen the Set Screw (Item 26) to release the FMCE from the Input Unit (See Figure 7).

1. Remove the four Socket Head Cap Screws (Item 12) and separate the two halves of the FMCE (See Figure 7).

WARNING

Special attention should be exercised when working with retaining rings. Always wear safety goggles when working with spring or tension loaded fasteners or devices.

2. Remove the Retaining Ring (Item 6) (See Figure 7).

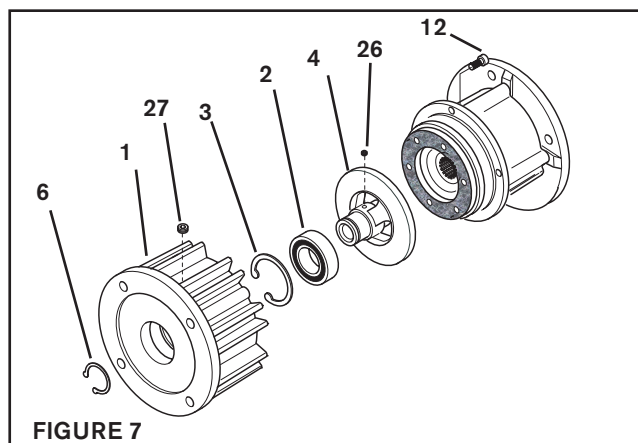


FIGURE 7

3. Press the Drive Disc (Item 4) out of the Bearing (Item 2) and the Housing (Item 1) (See Figure 7).
4. Remove the Retaining Ring (Item 3) (See Figure 7).
5. Fully supporting the Housing (Item 1), press the old Bearing (Item 2) out of the Housing (Item 1) (See Figure 7).

NOTE

Do not reuse the bearing. Applying force to the inner bearing race to remove a bearing held by the outer race causes damage to the bearing.

6. Clean the bearing bore of the Housing (Item 1) with fresh safety solvent, making sure all old Loctite® residue is removed (See Figure 7).
7. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the new Bearing (Item 2) (See Figure 7).
8. Carefully align the outer race of the new Bearing (Item 2) with the bore of the Housing (Item 1) (See Figure 7).
9. Supporting the Housing (Item 1) and pressing on the outer race of the new Bearing (Item 2), press the new Bearing into the Housing (See Figure 7).

10. Reinstall the Retaining Ring (Item 3) (See Figure 7).

11. Support the inner race of the new Bearing (Item 2) and press the Drive Disc (Item 4) into the new Bearing and Housing (Item 1) (See Figure 7).

12. Reinstall the Retaining Ring (Item 6) (See Figure 7).

NOTE

If you are replacing all the Bearings and O-ring Seals in the FMCE, proceed to PARTS REPLACEMENT-BEARINGS AND O-RING SEALS; otherwise, proceed with the next step.

13. Apply a drop of Loctite® 242 to the threads of the Socket Head Cap Screws (Item 12) (See Figure 7).

14. Slide the Housing (Item 1), Bearing (Item 2), and Drive Disc (Item 4) into the FMCE and reinstall the four Socket Head Cap Screws (Item 12) (See Figure 7).

15. Tighten the four Socket Head Cap Screws (Item 12) to 157 In. Lbs. [17.7 N•m] torque.

PARTS REPLACEMENT-FEMALE PILOT BEARING, MODELS FMCE 875, 1125, AND 1375

NOTE

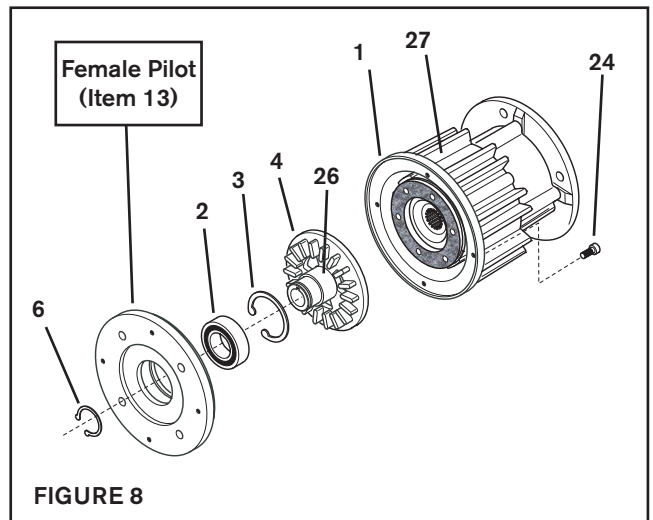
If an Input Unit is installed on the FMCE, it must be removed before servicing the FMCE. Remove the Plug (Item 27) and loosen the Set Screw (Item 26) to release the FMCE from the Input Unit (See Figure 8).

1. Remove the four Socket Head Cap Screws (Item 24) and remove the Female Pilot (Item 13) from the FMCE Housing (Item 1) (See Figure 8).

WARNING

Special attention should be exercised when working with retaining rings. Always wear safety goggles when working with spring or tension loaded fasteners or devices.

2. Remove the Retaining Ring (Item 6) (See Figure 8).
3. Press the Drive Disc (Item 4) out of the Bearing (Item 2) and the Female Pilot (Item 13) (See Figure 8).
4. Remove the Retaining Ring (Item 3) (See Figure 8).
5. Fully supporting the Female Pilot (Item 13), press the old Bearing (Item 2) out of the Female Pilot (Item 13) (See Figure 8).



NOTE

Do not reuse the bearing. Applying force to the inner bearing race to remove a bearing held by the outer race causes damage to the bearing.

6. Clean the bearing bore of the Female Pilot (Item 13) with fresh safety solvent, making sure all old Loctite® residue is removed (See Figure 8).
7. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the new Bearing (Item 2) (See Figure 8).
8. Carefully align the outer race of the new Bearing (Item 2) with the bore of the Female Pilot (Item 13) (See Figure 8).
9. Supporting the Female Pilot (Item 13) and pressing on the outer race of the new Bearing (Item 2), press the new Bearing into the Female Pilot (See Figure 8).
10. Reinstall the Retaining Ring (Item 3) (See Figure 8).
11. Support the inner race of the new Bearing (Item 2) and press the Drive Disc (Item 4) into the new Bearing and Female Pilot (Item 13) (See Figure 8).
12. Reinstall the Retaining Ring (Item 6) (See Figure 8).

RECOMMENDED TIGHTENING TORQUE

MODEL	TIGHTENING TORQUE
FMCE 875 (Item 24)	157 In. Lbs. [17.7 N m]
FMCE 1125 (Item 24)	266 In. Lbs. [30.0 N m]
FMCE 1375 (Item 24)	580 In. Lbs. [65.0 N m]

TABLE 5

NOTE

If you are replacing all the Bearings and O-ring Seals in the FMCE, proceed to PARTS REPLACEMENT-BEARINGS AND O-RING SEALS; otherwise, proceed with the next step.

13. Apply a drop of Loctite® 242 to the threads of the Socket Head Cap Screws (Item 24) (See Figure 8).
14. Slide the Female Pilot (Item 13), Bearing (Item 2), and Drive Disc (Item 4) into the FMCE and reinstall the four Socket Head Cap Screws (Item 24) (See Figure 8).
15. Alternately and evenly tighten the four Socket Head Cap Screws (Item 24) to the recommended torque (See Figure 13 and Table 5).

PARTS REPLACEMENT-BEARINGS AND O-RING SEALS (ALL MODELS)

1. Remove the four Socket Head Cap Screws (Item 12) and separate the two halves of the FMCE (See Figure 9).
2. Remove the four Socket Head Cap Screws (Item 12) securing the Male Pilot (Item 19) to the Air Chamber (Item 11) (See Figure 9).
3. Remove the Male Pilot (Item 19) and Stub Shaft (Item 22) from the Air Chamber (Item 11) (See Figure 9).
4. Remove and discard the old O-ring Seals (Items 20 and 21) (See Figure 9).

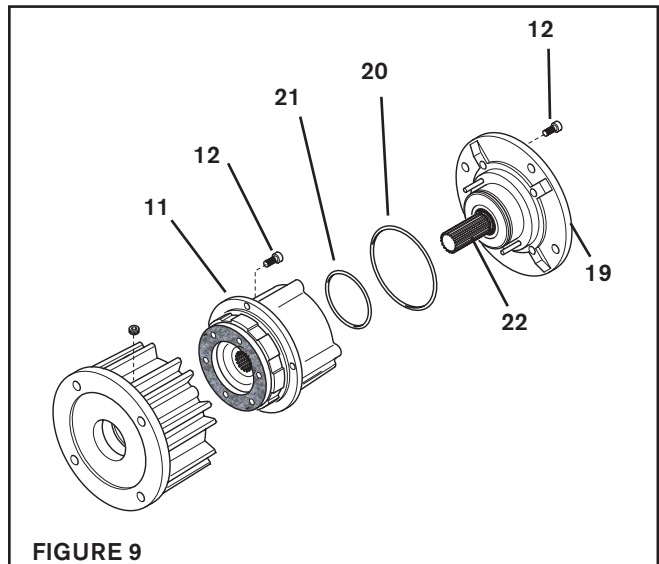
WARNING

The Piston (Item 15) is spring loaded. Always wear safety goggles when working with spring or tension loaded fasteners or devices.

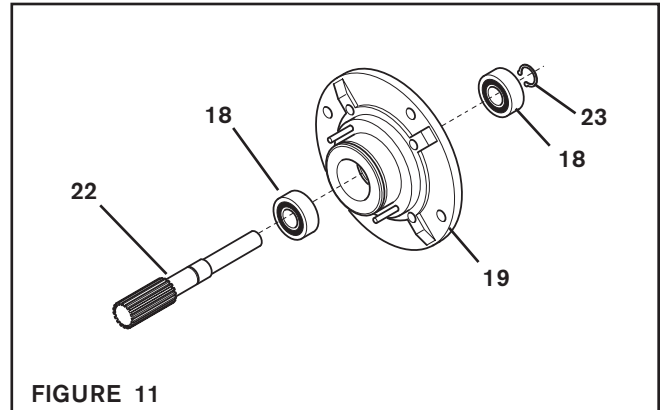
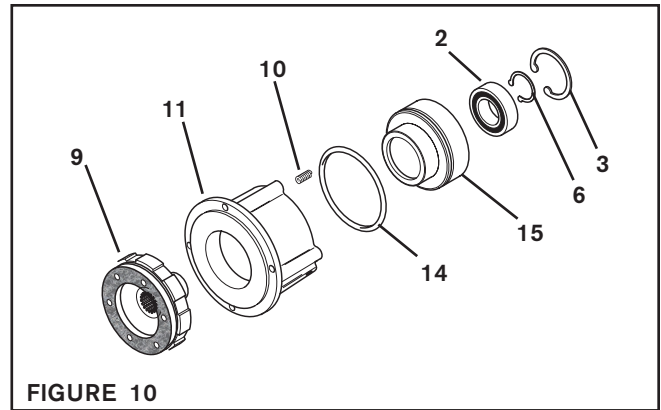
5. Using a "C" clamp, compress the Piston (Item 15) into the Air Chamber (Item 11) (See Figure 10).

WARNING

Special attention should be exercised when working with retaining rings. Always wear safety goggles when working with spring or tension loaded fasteners or devices.



6. Remove the Retaining Ring (Item 6) from the Splined Disc (Item 9) (See Figure 10).
7. Press the Splined Disc (Item 9) from the Bearing (Item 2) (See Figure 10).
8. Slowly release the "C" clamp holding the Piston (Item 15) in the Air Chamber (Item 11); then, remove the Piston (Item 15) from the Air Chamber (Item 11) (See Figure 10).
9. Remove the six Compression Springs (Item 10) (See Figure 10).
10. Remove the Retaining Ring (Item 3) from the Piston (Item 15) (See Figure 10).
11. Remove and discard the old O-ring Seal (Item 14) from the Piston (Item 15) (See Figure 10).
12. Press the Bearing (Item 2) out of the Piston (Item 15) (See Figure 15).
13. Clean the bearing bore of the Piston with fresh safety solvent, making sure all old Loctite® residue is removed.
14. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the new Bearing (Item 2).
15. Carefully align the outer race of the new Bearing (Item 2) with the bore of the Piston (Item 15) (See Figure 10).
16. Supporting the Piston (Item 15) and pressing on the outer race of the new Bearing (Item 2), press the new Bearing into the Piston (See Figure 10).
17. Reinstall the Retaining Ring (Item 3), securing the Bearing to the Piston (Item 15) (See Figure 10).
18. Coat the O-ring contact surfaces of the Air Chamber (Item 11), Piston (Item 15), and the O-ring Seal (Item 14) with a thin film of O-ring lubricant and install the new O-ring Seal (See Figure 10).
19. Reinstall the six Compression Springs (Item 10) into the Air Chamber (Item 11) (See Figure 10).
20. Slide the Piston (Item 15) into the Air Chamber (Item 11) (See Figure 10).
21. Using a "C" clamp, compress the Piston (Item 15) into the Air Chamber (Item 11) (See Figure 10).
22. Support the inner race of the Bearing (Item 2) and press the Splined Disc (Item 9) into the Bearing and Piston (Item 15) (See Figure 10).
23. Reinstall the Retaining Ring (Item 6) that secures the Splined Disc (Item 9) to the Bearing (Item 2) (See Figure 10).
24. Remove the "C" clamp.
25. Remove the Retaining Ring (Item 23) from the Stub Shaft (Item 22) (See Figure 11).
26. Press the Stub Shaft (Item 22) out the Male Pilot (Item 19) (See Figure 11).



Model	Recommended Tightening Torque for (Item 12)
FMCE 625	157 In. Lbs. [17.7 Nm]
FMCE 875	266 In. Lbs. [30.0 Nm]
FMCE 1125	266 In. Lbs. [30.0 Nm]
FMCE 1375	594 In. Lbs. [55.5 Nm]

TABLE 6

NOTE

One Bearing (Item 18) will remain attached to the Stub Shaft (Item 22).

27. Press the old Bearing (Item 18) off the Stub Shaft (Item 22) (See Figure 11).
28. Press the old Bearing (Item 18) out of the Male Pilot (Item 19) (See Figure 11).

NOTE

It is not necessary to remove the Retaining Ring (Item 17) from the inside of the Male Pilot (Item 19).

29. Clean the bearing bore of the Male Pilot (Item 19) with fresh safety solvent, making sure all old Loctite® residue is removed (See Figure 11).
30. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the first new Bearing (Item 18) and press it into the output side of the Male Pilot until it is seated against the Retaining Ring (Item 17) inside the Male Pilot (See Figure 11).
31. Press the second new Bearing (Item 18) onto the Stub Shaft (Item 22) (See Figure 11).

32. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the second new Bearing (Item 18).
33. Carefully align the outer race of the second new Bearing (Item 18) with the bore of the Male Pilot (Item 19) (See Figure 11).
34. While supporting the Male Pilot (Item 19) and the inner race of the first new Bearing (Item 18) and pressing on the outer race of the second new Bearing (Item 18), press the second new Bearing and Stub Shaft (Item 22) into the Male Pilot (See Figure 11).
35. Reinstall the Retaining Ring (Item 23) (See Figure 16).
36. Apply a thin film of NEVER-SEEZ® to the splines of the Stub Shaft (Item 22) (See Figure 11).
37. Coat the O-ring contact surfaces of the Male Pilot (Item 19), Piston (Item 15), and the O-ring Seals (Items 20 and 21) with a thin film of O-ring lubricant.
38. Install the new O-ring Seals (Items 20 and 21) (See Figure 9).
39. Align the Dowel Pins (Item 16) in the Male Pilot (Item 19) with the holes in the Piston (Item 15) (See Figure 9).
40. Slide the Male Pilot (Item 19) and Stub Shaft (Item 22) into the FMCE.
41. Apply a drop of Loctite® 242 to the threads of four Socket Head Cap Screws (Item 12) (See Figure 9).
42. Tighten the four Socket Head Cap Screws (Item 12) that secure the Male Pilot (Item 19) to the Air Chamber (Item 11) to the recommended torque (See Table 7).
43. Apply a drop of Loctite® 242 to the threads of the remaining four Socket Head Cap Screws (Item 12) (See Figure 9).
44. Slide the Air Chamber (Item 11) into the Housing (Item 1) and install the four remaining Socket Head Cap Screws (Item 12) that secure the Air Chamber to the Housing (See Figure 9).
45. Tighten the four Socket Head Cap Screws (Item 12) that secure the Air Chamber (Item 11) to the Housing (Item 1) to the recommended torque (See Figure 9 and Table 6).

PARTS REPLACEMENT—INPUT UNIT

WARNING

Special attention should be exercised when working with retaining rings. Always wear safety goggles when working with spring or tension loaded fasteners or devices.

1. Remove the Retaining Ring (Item 35) from the output end of the Input Unit (See Figure 12).
2. Press the Stub Shaft (Item 11) out of the Bearing Flange (Item 20) (See Figure 12).

NOTE

One old Ball Bearing (Item 30) will come out of the Bearing Flange (Item 20) with the Stub Shaft (Item 11).

3. Press the first old Ball Bearing (Item 30) off the Stub Shaft (Item 11) (See Figure 12).
4. Press the first new Ball Bearing (Item 30) onto the Stub Shaft (Item 11) until it is seated against the Retaining Ring (Item 35) (See Figure 12).
5. Press the second old Ball Bearing (Item 30) out of the Bearing Flange (Item 20) (See Figure 12).

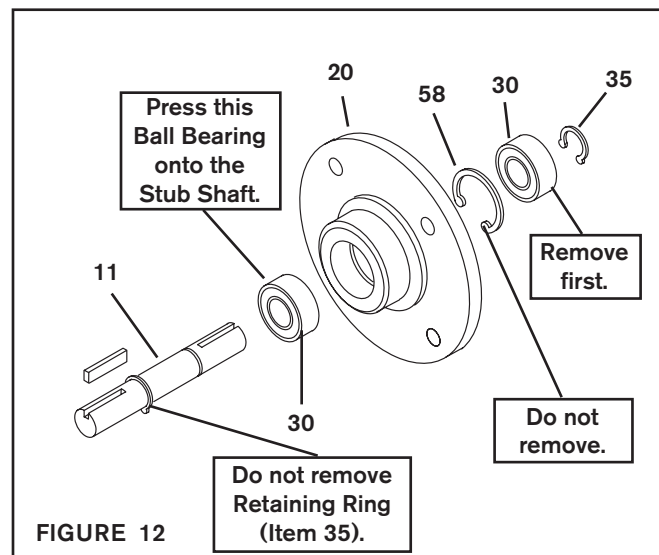


FIGURE 12

6. Clean the bearing bore of the Bearing Flange (Item 20) with fresh safety solvent, making sure all old Loctite® residue is removed (See Figure 12).
7. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the first new Ball Bearing (Item 30) on the Stub Shaft (Item 11) and press the first new Ball Bearing and Stub Shaft into the Bearing Flange (Item 20) until the Ball Bearing is seated against the Retaining Ring (Item 58) (See Figure 12).
8. Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the second new Ball Bearing (Item 30) and press the second new Ball Bearing onto the Stub Shaft (Item 11) and into the Bearing Flange (Item 20) until the Ball Bearing is seated against the Retaining Ring (Item 58) (See Figure 12).
9. Reinstall the Retaining Ring (Item 35) (See Figure 12).

REPLACEMENT PARTS

The item or balloon number for all Nexen products is used for part identification on all product parts lists, product price lists, unit assembly drawings, bills of materials, and instruction manuals.

When ordering replacement parts, specify model designation, item

number, part description, and quantity. Purchase replacement parts through your local Nexen Distributor.

PARTS LIST

FMCE 625

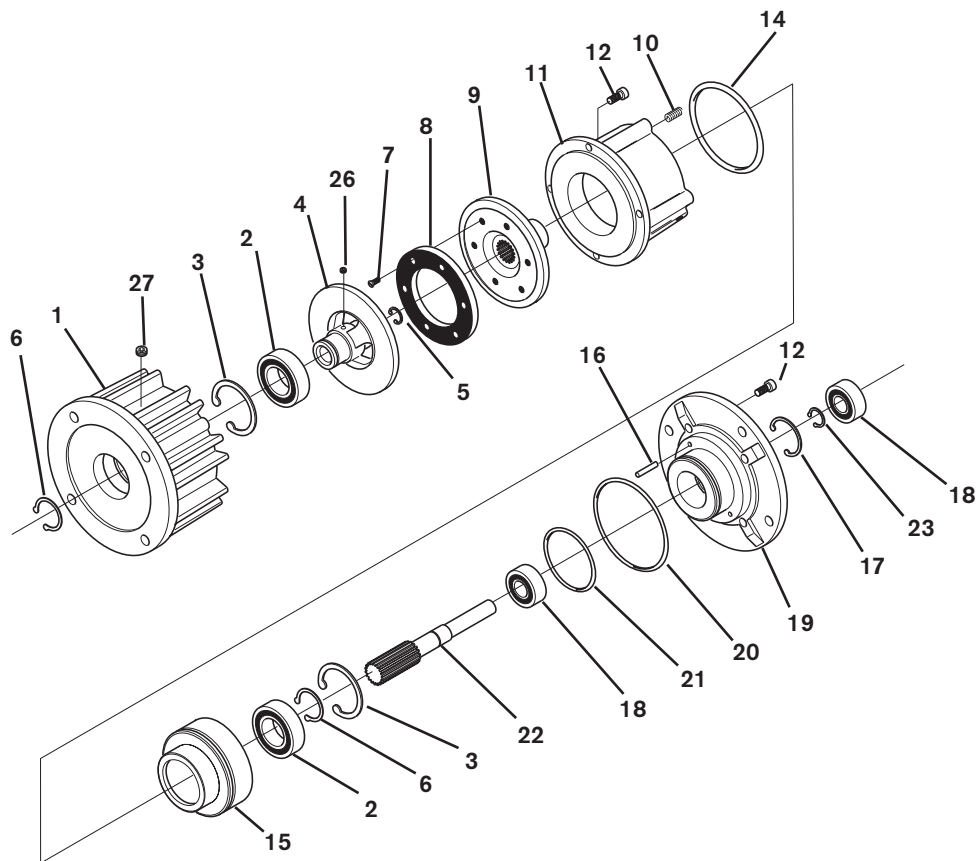


FIGURE 13

ITEM	DESCRIPTION	QTY
1	Housing	1
2 ¹	Bearing	2
3	Retaining Ring (Int.)	2
4	Drive Disc	1
5	Retaining Ring (Int.)	1
6	Retaining Ring (Ext.)	2
7 ²	Flat Head Screw	6
8 ²	Friction Facing	1
9	Splined Disc	1
10	Compression Spring	6
11	Air Chamber	1
12	Socket Head Cap Screw	8
14 ¹	O-ring Seal	1
15	Piston	1

ITEM	DESCRIPTION	QTY
16	Slotted Spring Pin	1
17	Retaining Ring (Int.)	1
18 ¹	Bearing	2
19	Male Pilot	1
20 ¹	O-ring Seal	1
21 ¹	O-ring Seal	1
22	Stub Shaft	1
23	Retaining Ring (Ext.)	1
25	Key (Not Shown)	1
26	Set Screw	1
27	Plug	1
29	Socket Head Cap Screw (Not Shown)	4
30	Lock Washer (Not Shown)	4

¹ Denotes Repair Kit item.
Repair Kit No. 801487.

² Denotes Facing Kit item.
Facing Kit No. 801448.

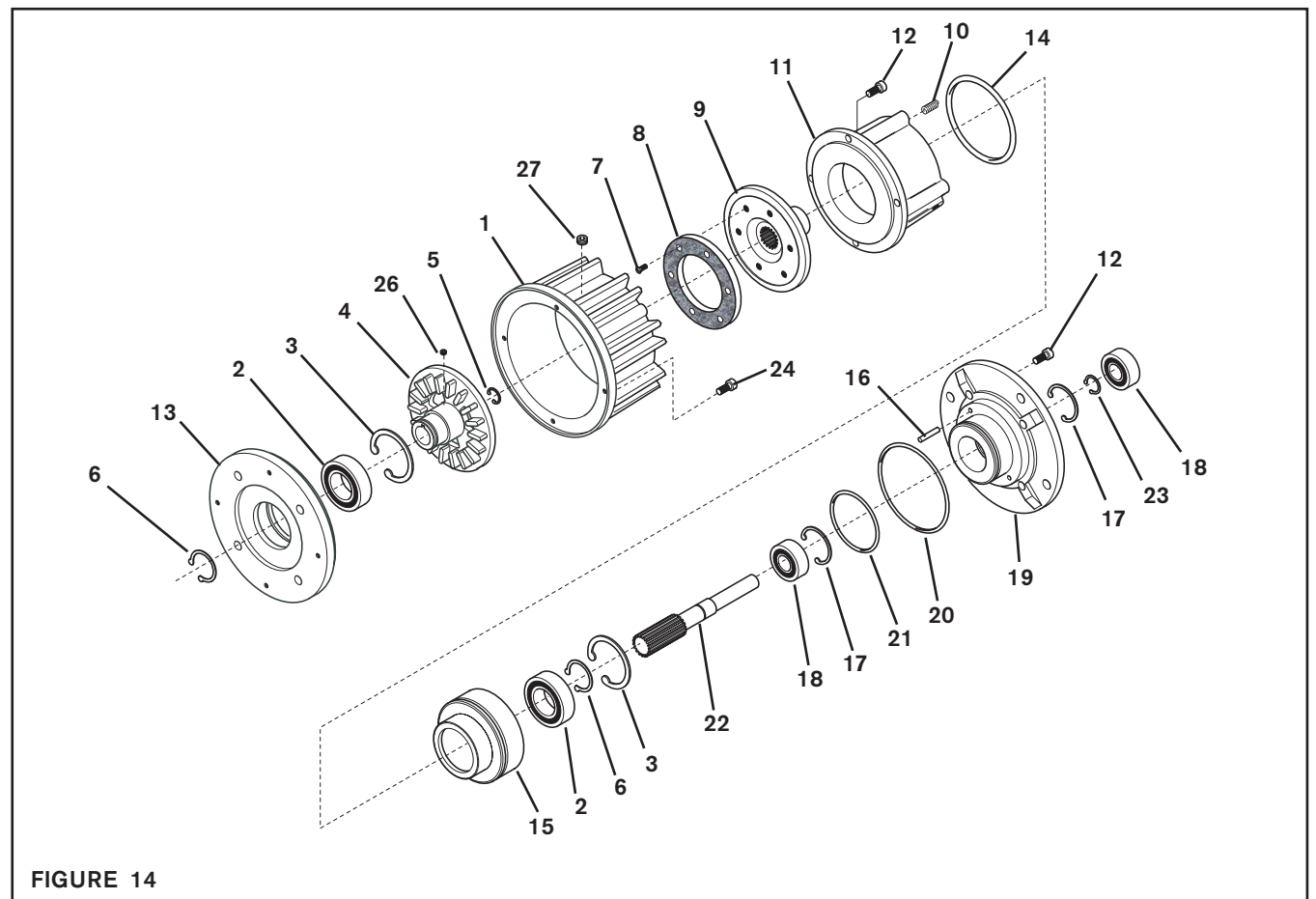


FIGURE 14

ITEM	DESCRIPTION	QTY
1	Housing	1
2 ¹	Bearing	2
3	Retaining Ring (Int.)	2
4	Drive Disc	1
5	Retaining Ring (Int.)	1
6	Retaining Ring (Ext.)	2
7 ²	Flat Head Screw	6
8 ²	Friction Facing	1
9	Splined Disc	1
10	Compression Spring	6
11	Air Chamber	1
12	Socket Head Cap Screw	8
13	Female Pilot	1
14 ¹	O-ring Seal	1
15	Piston	1

¹ Denotes Repair Kit item.
Repair Kit No. 801474.

ITEM	DESCRIPTION	QTY
16	Slotted Spring Pin	1
17	Retaining Ring (Int.)	1
18 ¹	Bearing	2
19	Male Pilot	1
20 ¹	O-ring Seal	1
21 ¹	O-ring Seal	1
22	Stub Shaft	1
23	Retaining Ring (Ext.)	1
24	Socket Head Cap Screw	4
25	Key (Not Shown)	1
26	Set Screw	1
27	Plug	1
29	Socket Head Cap Screw (Not Shown)	4
30	Lock Washer (Not Shown)	4

² Denotes Facing Kit item.
Facing Kit No. 801477.

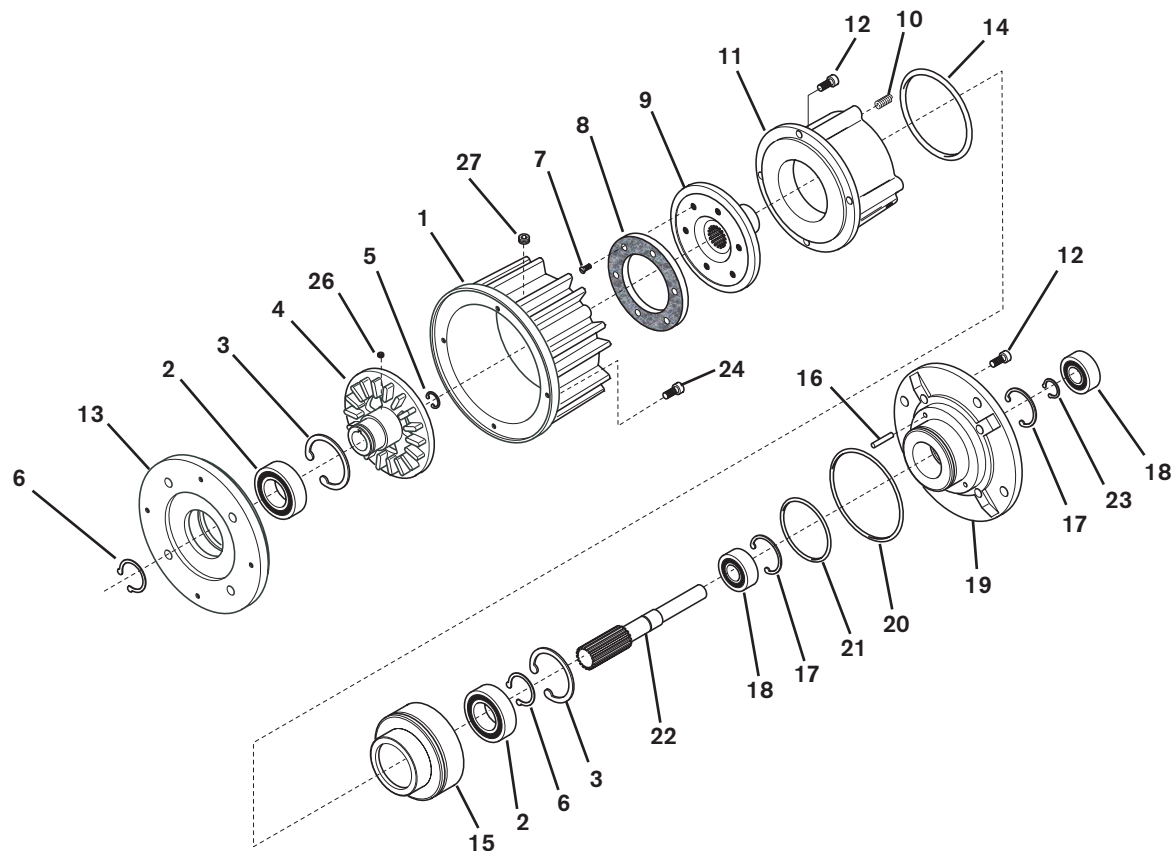


FIGURE 15

ITEM	DESCRIPTION	QTY
1	Housing	1
2 ¹	Bearing	2
3	Retaining Ring (Int.)	2
4	Drive Disc	1
5	Retaining Ring (Int.)	1
6	Retaining Ring (Ext.)	2
7 ²	Flat Head Screw	6
8 ²	Friction Facing	1
9	Splined Disc	1
10	Compression Spring	6
11	Air Chamber	1
12	Socket Head Cap Screw	8
13	Female Pilot	1
14 ¹	O-ring Seal	1

¹ Denotes Repair Kit item.
Repair Kit No. 918378.

ITEM	DESCRIPTION	QTY
15	Piston	1
16	Slotted Spring Pin	2
17	Retaining Ring (Int.)	1
18 ¹	Bearing	2
19	Male Pilot	1
20 ¹	O-ring Seal	1
21 ¹	O-ring Seal	1
22	Stub Shaft	1
23	Retaining Ring (Ext.)	1
24	Socket Head Cap Screw	4
25	Key (Not Shown)	1
26	Set Screw	1
27	Plug	1
29	Socket Head Cap Screw (Not Shown)	4
30	Lock Washer (Not Shown)	4

² Denotes Facing Kit item.
Facing Kit No. 801605.

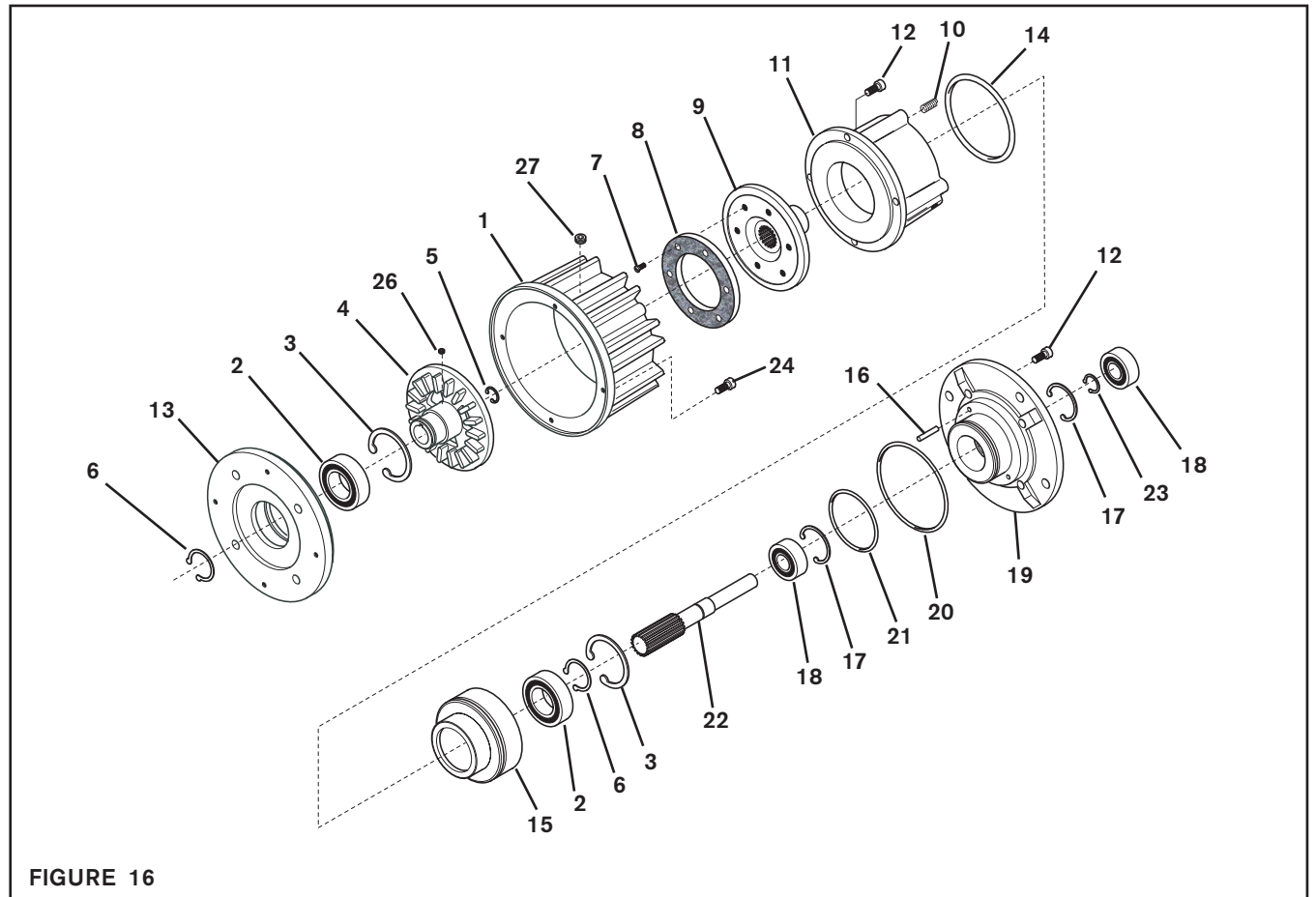


FIGURE 16

ITEM	DESCRIPTION	QTY
1	Housing	1
2 ¹	Bearing	2
3	Retaining Ring (Int.)	2
4	Drive Disc	1
5	Retaining Ring (Int.)	1
6	Retaining Ring (Ext.)	2
7 ²	Flat Head Screw	6
8 ²	Friction Facing	1
9	Splined Disc	1
10	Compression Spring	6
11	Air Chamber	1
12	Socket Head Cap Screw	8
13	Female Pilot	1
14 ¹	O-ring Seal	1
15	Piston	1

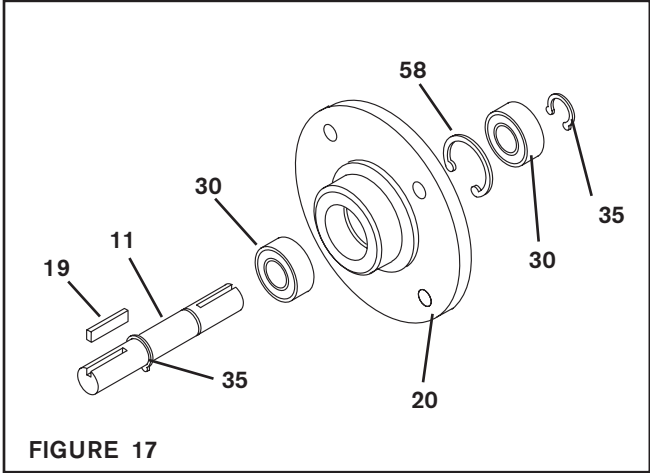
¹ Denotes Repair Kit item.
Repair Kit No. 918379.

ITEM	DESCRIPTION	QTY
16	Slotted Spring Pin	2
17	Retaining Ring (Int.)	1
18 ¹	Bearing	2
19	Male Pilot	1
20 ¹	O-ring Seal	1
21 ¹	O-ring Seal	1
22	Stub Shaft	1
23	Retaining Ring (Ext.)	1
24	Socket Head Cap Screw	4
25	Key (Not Shown)	1
26	Set Screw	1
27	Plug	1
29	Socket Head Cap Screw (Not Shown)	4
30	Lock Washer (Not Shown)	4

² Denotes Facing Kit item.
Facing Kit No. 801647.

PARTS LIST-INPUT UNIT

ITEM	DESCRIPTION	QTY
11	Stub Shaft	1
19	Key	2
20	Bearing Flange	1
30	Ball Bearing	2
35	Retaining Ring	2
45	Hex. Head Jam Nut (Not Shown)	4
58	Retaining Ring	1



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