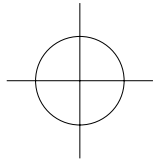


AIR CHAMP® PRODUCTS

User Manual



FLANGE-MOUNTED ENCLOSED CLUTCH-BRAKES LOCKING KEY CONVERSION FMCBE MODELS 625, 875, AND 1125

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.

Technical Support: 800-843-7445
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www.nexengroup.com



DANGER

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.

Nexen Group, Inc.
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ISO 9001 Certified

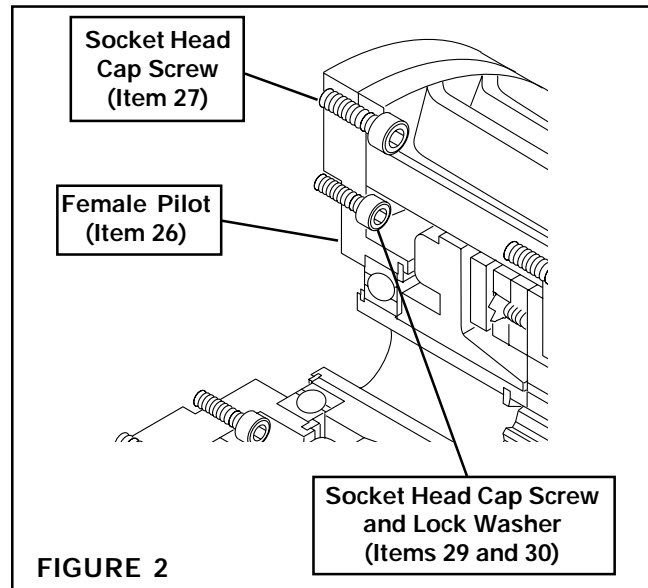
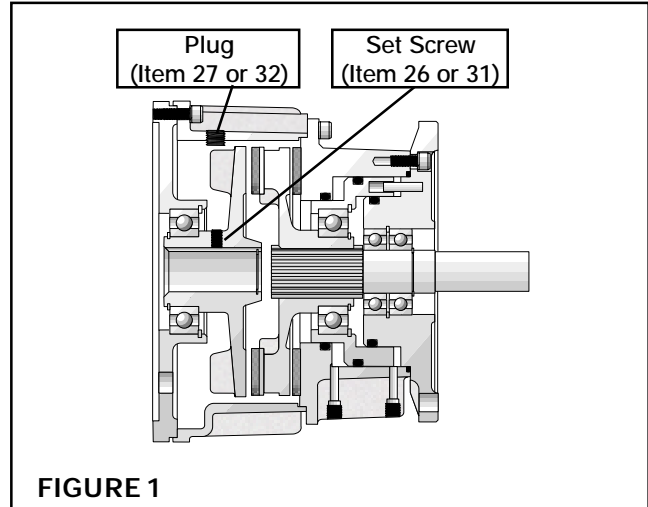
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FMCBE REMOVAL

1. Remove the Plug (Item 27 or 32) and loosen the Set Screw (Item 26 or 31) securing the FMCBE to the motor or Input Unit (See Figure 1).
2. On Model 625, remove the Socket Head Cap Screws (Item 29) and Lock Washers (Item 30) that secure the FMCBE to the motor or Input Unit; then, slide the motor or Input Unit off the FMCBE (See Figure 2).

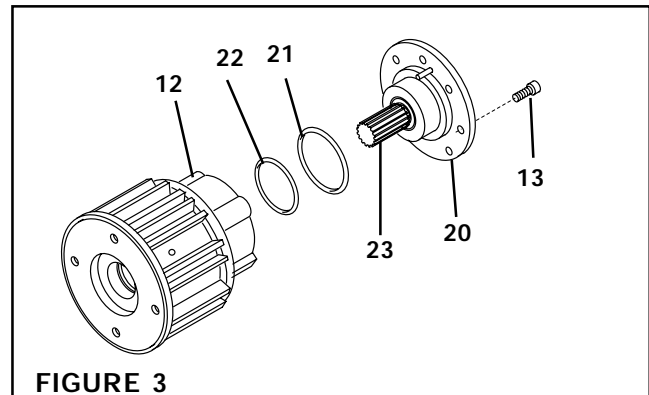
On Models 875 and 1125, remove the Socket Head Cap Screws (Item 27) that secure the FMCBE Housing (Item 1) to the Female Pilot (Item 26); then, remove the Socket Head Cap Screws (Item 29) and Lock Washers (Item 30) to remove the Female Pilot from the motor or Input Unit (See Figure 2).



PARTS CONVERSION

STUB SHAFT, LOCKING KEY, BEARINGS, AND O-RING SEALS

1. Remove the four Socket Head Cap Screws (Item 13) and slide the Male Pilot (Item 20) and the Stub Shaft (Item 23) out of the Air Chamber (Item 12) (See Figure 3).
2. Remove the old O-ring Seals (Item 21 and 22) from the Male Pilot (Item 20) (See Figure 3).



- Remove the Retaining Ring (Item 24) and press the Stub Shaft (Item 23) out of the Male Pilot (Item 20) (See Figure 4).

NOTE: The two old Ball Bearings (Item 19) are removed from opposite ends of the Male Pilot (Item 20). Do not remove the Retaining Ring(s) (Item 18) (See Figure 4).

- Remove the two old Ball Bearings (Item 19) from the Male Pilot (Item 20) (See Figure 4).
- Clean the bearing bore of the Male Pilot (Item 20) with fresh safety solvent, making sure all old Loctite® residue is removed (See Figure 4).
- Press one new Ball Bearing (Item 19) onto the new Stub Shaft (Item 23) (See Figure 5).
- Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the second new Ball Bearing (Item 19) and press it into the output side of the Male Pilot (Item 20) until it is seated against the Retaining Ring (Item 18) inside the Male Pilot (See Figure 5).

NOTE: Model 625 FMCBE does not have a Second Retaining Ring (Item 18).

- Apply an adequate amount of Loctite® 680 to evenly coat the outer race of the new Ball Bearing (Item 19) pressed onto the Stub Shaft (Item 23). Then, press the new Ball Bearing and Stub Shaft into the Male Pilot (Item 20) until the Ball Bearing is seated against the Retaining Ring (Item 18) (See Figure 5).
- Lubricate the new O-rings Seals (Items 21 and 22) and the contact surfaces on the Male Pilot (Item 20) and Air Chamber (Item 12) with a thin film of fresh o-ring lubricant.
- Install the new O-ring Seals (Items 21 and 22) (See Figure 6).
- Lubricate the splines of the new Stub Shaft (Item 23) with a thin film of Never-Seez®.
- Align the Spring Pin (Item 17) on the Male Pilot (Item 20) with the hole in the Piston (Item 16) and slide the Male Pilot into the Piston and Housing (Item 1) (See Figure 6).
- Apply a drop of Loctite® 242 to the threads of four Socket Head Cap Screws (Item 13) and secure the Male Pilot (Item 20) to the Air Chamber (Item 12) (See Figure 6).
- Tighten the four Socket Head Cap Screws to the recommended torque (See Table 1).

NOTE: See L-20319 for pertinent information regarding installation, operation, and maintenance of the FMCBE Locking Key unit.

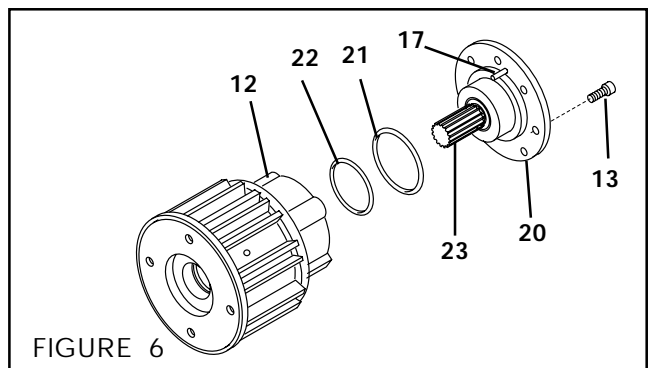
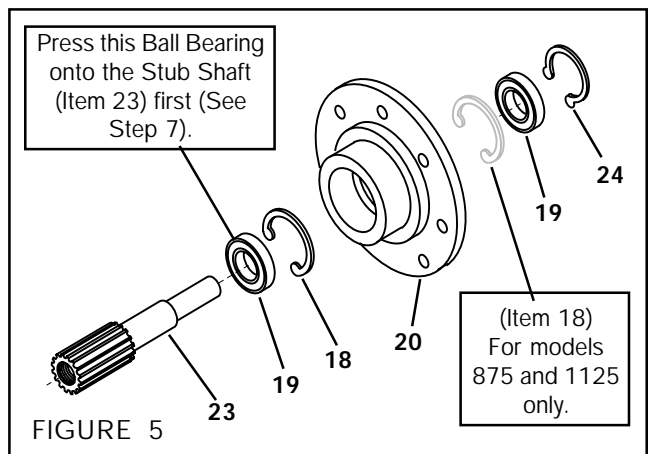
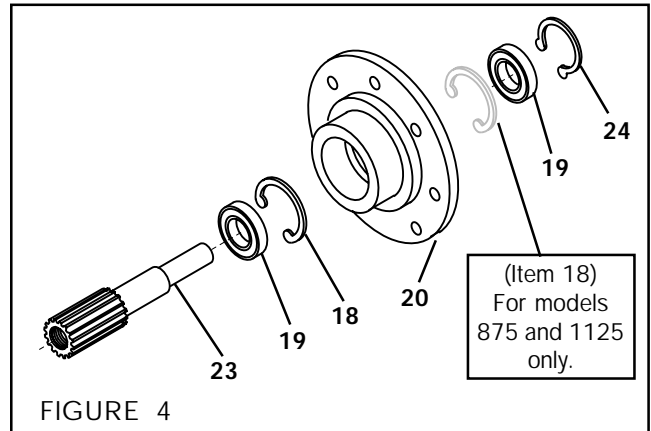
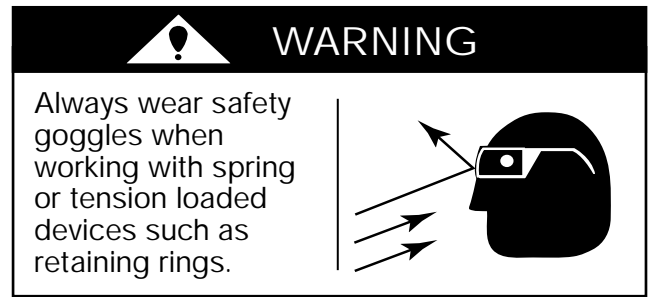


TABLE 1

FMCBE MODEL	RECOMMENDED TIGHTENING TORQUE (ITEM 13)
625	10.5 ft-lb [4.17 Nm]
875	24.5 ft-lb [33.06 Nm]
1125	24.5 ft-lb [33.06 Nm]

REPLACEMENT PARTS

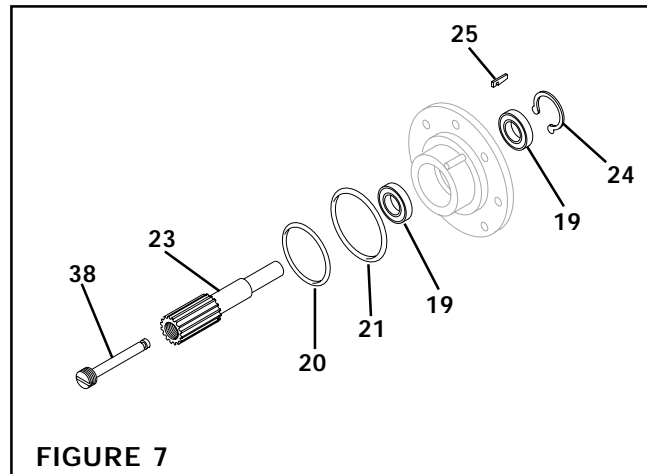
The item or balloon number for all Nexen products is used for part identification on all product parts lists, product price lists, unit assembly drawings, bills of materials, and instruction manuals.

When ordering replacement parts, specify model designation, item number, part description, and quantity. Purchase replacement parts through your local Nexen Distributor.

PARTS LIST

LOCKING KEY CONVERSION KIT

ITEM	DESCRIPTION	QTY
19	Ball Bearing	2
21	O-ring Seal	1
22	O-ring Seal	1
23	Stub Shaft	1
24	Retaining Ring	1
25	Locking Key	1
38	Bar	1
	O-ring Lube (Not Shown)	1



WARRANTY

Warranties

Nexen warrants that the Products will be free from any defects in material or workmanship for a period of 12 months from the date of shipment. NEXEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. This warranty applies only if (a) the Product has been installed, used and maintained in accordance with any applicable Nexen installation or maintenance manual for the Product; (b) the alleged defect is not attributable to normal wear and tear; (c) the Product has not been altered, misused or used for purposes other than those for which it was intended; and (d) Buyer has given written notice of the alleged defect to Nexen, and delivered the allegedly defective Product to Nexen, within one year of the date of shipment.

Exclusive Remedy

The exclusive remedy of the Buyer for any breach of the warranties set out above will be, at the sole discretion of Nexen, a repair or replacement with new, serviceably used or reconditioned Product, or issuance of credit in the amount of the purchase price paid to Nexen by the Buyer for the Products.

Limitation of Nexen's Liability

TO THE EXTENT PERMITTED BY LAW NEXEN SHALL HAVE NO LIABILITY TO BUYER OR ANY OTHER PERSON FOR INCIDENTAL DAMAGES, SPECIAL DAMAGES, CONSEQUENTIAL DAMAGES OR OTHER DAMAGES OF ANY KIND OR NATURE WHATSOEVER, WHETHER ARISING OUT OF BREACH OF WARRANTY OR OTHER BREACH OF CONTRACT, NEGLIGENCE OR OTHER TORT, OR OTHERWISE, EVEN IF NEXEN SHALL HAVE BEEN ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH POTENTIAL LOSS OR DAMAGE. For all of the purposes hereof, the term "consequential damages" shall include lost profits, penalties, delay images, liquidated damages or other damages and liabilities which Buyer shall be obligated to pay or which Buyer may incur based upon, related to or arising out of its contracts with its customers or other third parties. In no event shall Nexen be liable for any amount of damages in excess of amounts paid by Buyer for Products or services as to which a breach of contract has been determined to exist. The parties expressly agree that the price for the Products and the services was determined in consideration of the limitation on damages set forth herein and such limitation has been specifically bargained for and constitutes an agreed allocation of risk which shall survive the determination of any court of competent jurisdiction that any remedy herein fails of its essential purpose.

Limitation of Damages

In no event shall Nexen be liable for any consequential, indirect, incidental, or special damages of any nature whatsoever, including without limitation, lost profits arising from the sale or use of the Products.

Warranty Claim Procedures

To make a claim under this warranty, the claimant must give written notice of the alleged defect to whom the Product was purchased from and deliver the Product to same within one year of the date on which the alleged defect first became apparent.

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