A Division of Thiessen Products, Inc.

Instruction Sheet For Tool No. 1664

SHIFTER SHAFT BUSHING REMOVAL & INSTALLATION PROCEDURE

SHIFTER SHAFT SLEEVE TOOL

Use to upgrade to latest shifter assembly for 5-speeds, 1986-1999 FXST, and 1980-2000 FLHT, FXR, and FXD. Use to replace shifter sleeve for 5-speed 2000-2006 FXST, 2001-2006 FLHT, and 2001-2005 FXD.

INSTRUCTIONS

1. To remove transmission gear set, see H-D® service manual for year and model application before removing and installing shifter shaft sleeve.
2. To remove existing sleeve in transmission case, insert Remover Pilot (1) No. 1664-1 into sleeve I.D. as shown in **Figure 1**. Drive sleeve towards inside of case using a 30 oz. brass hammer.
3. Clean inside of case and check sleeve bore for any burrs or metal debris.
4. To install new sleeve, lube the O.D. and I.D. of sleeve and Installer Pilot Tool (2) No. 1664-2. Then lube thrust washers (4), bearing (3) and Allen screw (5).
5. Slip onto Allen screw; one lubed thrust washer, then lubed bearing, and last lubed thrust washer. Then from outside of case, slip through case sleeve hole.
6. Install lubed sleeve (No. 33114-79 or 34979-00) onto No. 1664-2 Installer Pilot (2) and from inside of case thread onto Allen bolt as shown in **Figure 2**. Tighten by hand to align sleeve to hole, then using Allen wrench and box wrench as shown tighten Allen until bushing is as deep as it will go. Bushing should be flush with counterbored hole.

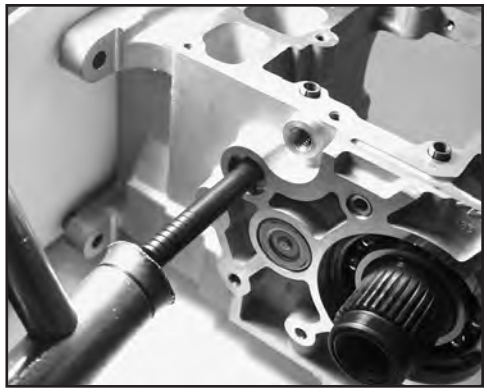


Figure 1

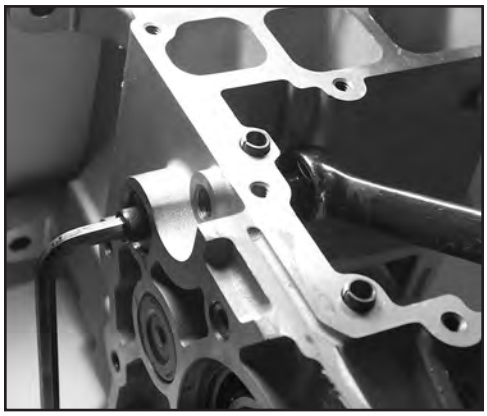
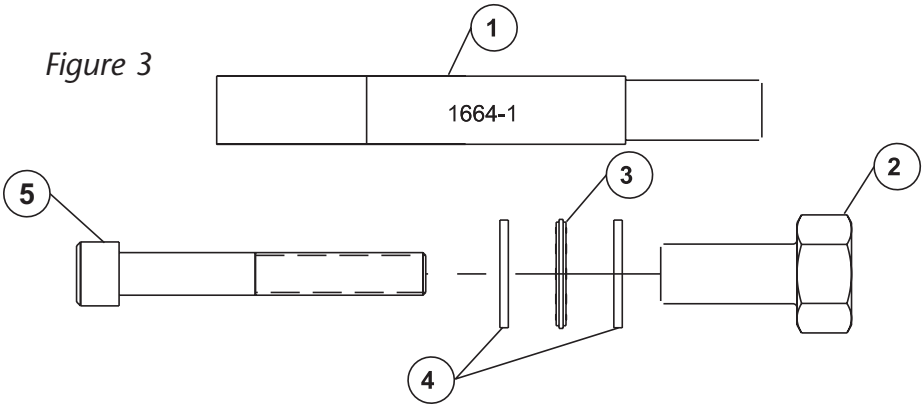


Figure 2

Figure 3



NO.	QTY.	DESCRIPTION	PART NUMBER
1	1	REMOVER, SHIFTER LEVER,	1664-1
2	1	INSTALLER, SHIFT LEVER,	1664-2
3	1	BEARING, THRUST	1663
4	2	WASHER, THRUST	1662
5	1	5/16-24 x 2 1/4" SHCS	1661

CAUTION: Wear safety glasses. Excessive force may damage parts!
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