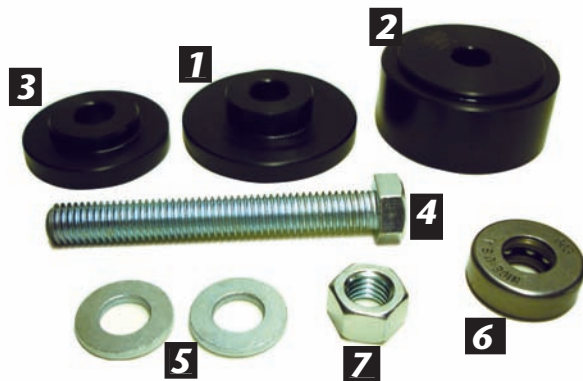


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INSTRUCTION SHEET FOR TOOL No. 967

**INNER PRIMARY COVER BEARING AND SEAL REMOVER AND INSTALLER TOOL
USE ON LATE 1984-2006 FXST, 1985-2006 FL, 1985-2006 FXR, FXD**



PARTS LIST			
NO.	QTY	DESCRIPTION	JIMS PART NO.
1	1	SEAL INSTALLER	967-1
2	1	BEARING RECEIVER CUP	967-2
3	1	REMOVER PLATE	967-3
4	1	SCREW	1211
5	2	WASHER	2038
6	1	BEARING	2010
7	1	NUT	2136
8	1	INSTRUCTION SHEET	967-IS

Note: PLEASE READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY BEFORE PERFORMING ANY WORK.

IF YOU DO NOT KNOW WHAT YOU ARE DOING, DO NOT DO IT!

No information in this instruction sheet pertaining to motorcycle repair is represented as foolproof or even altogether safe. Even something safe, done incorrectly or incompletely can and will backfire. You and only you are responsible for the safety of your repair work and for your understanding the application and use of repair equipment, components, methods and concepts. Each and every step that this tool is designed to do must be carefully and systematically performed safely by you. All information listed in this instruction sheet has been tested, re-tested and used daily in JIMS® Research and Development Department.

Jim's Tools needed to perform this service

- 1) See Jim's catalog for a complete listing of all primary chain locker tools and all other primary and transmission tools
- 2) Internal and external retaining ring pliers.

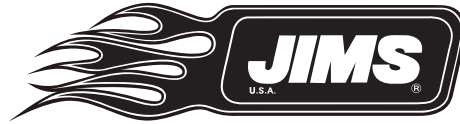
Other Hand Tools needed to perform this service

- 1) 3/4" Wrench, primary drain bolt most early models or T-40 Torx wrench, used on primary drain screw for most late models.
- 3) 3/16" Allen wrench, for primary cover screws on most years.
- 4) 9/16" Socket for primary adjuster for most early models and 1/2" socket on most late models also 8" wire tie.
- 5) 3/4" Socket to remove front compensating nut (bolt) on most late models.
- 6) 1-3/16" socket to remove clutch hub nut, for models.
- 7) 8mm Socket to remove starter drive shaft bolt.
- 8) Ft lb torque wrench, 3/8" drive, use to install new seal.
- 9) 3/4" Deep socket, 3/8" drive use to install new bearing and seal.
- 10) 3/4" Box end wrench use to install new bearing and seal.

**CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE BEARINGS !
SEE JIMS CATALOG FOR OVER 100 OTHER TOP QUALITY PROFESSIONAL TOOLS.**

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Removal Procedures

Warning: Disconnect the negative ground cable at the battery

- 1) Remove all primary covers outer and inner, per H-D service manual for appropriate year and model for the motorcycle you will be repairing.
- 2) Place inner primary cover on a clean flat non-marring surface, with the backside facing up.

Note: Inspect the way the old seal was installed. It should have had the open sealing side facing the inside of primary.

- 3) Remove Seal with a good quality seal pry bar.

Note: Do not damage the primary seal bore with seal remover tool.

- 4) Remove the retaining ring holding the inner primary bearing. Place a rag over ring as it is being removed from its bore. This will stop it from flying loose. Repeat the above for the retaining ring on the other side of bearing.
- 5) Apply lube to the visible bearing I.D. bore surface of inner primary pulley side of cover. Then from the clutch side of the primary cover, position the bearing remover tool No.967-3 with shoulder placed inside bearing I.D.. Next, from the pulley side of cover, place bearing receiver cup No.967-2, evenly centered, with laser lettered side facing you over the bearing bore hole. Insert No.1211 screw with all the threads lubed through the center hole of No.967-3 bearing remover and No.967-2 bearing receiver. Now install bearing No.2010 followed by washer No.2038 over bolt No.1211. Then with fingers thread on nut No.2136 until you take up slack on screw. **See FIG. 1.**
- 6) With a offset 3/4" box end wrench placed on screw No.1211 and a 3/4" deep socket with ratchet wrench on nut No.2136, tighten nut until bearing is removed from its bore.
- 7) Inspect the seal and bearing bore and wipe clean of all foreign material from this bore.
- 8) Make sure the bearing and seal bore is in serviceable condition to keep the new bearing and seal from coming out or from leaking around the O.D. of new seal.



Fig. 1

Installer Procedures

Installing new Bearing and Seal

- 1) Apply lube to all threads of screw No.1211 and a small amount of lube to the O.D. of the new bearing and seal. Lightly lube bearing bore hole. Install a new retaining ring, that goes in the ring groove on the clutch side of primary cover.

Note: Inspect to see that the retaining ring is installed and seated 100% in its groove.

- 2) Place a new bearing over the end of installer plate tool No. 967-3

Note: Letter side of bearing must face tool, with smaller end of plate inside bearing. **See FIG. 2.**

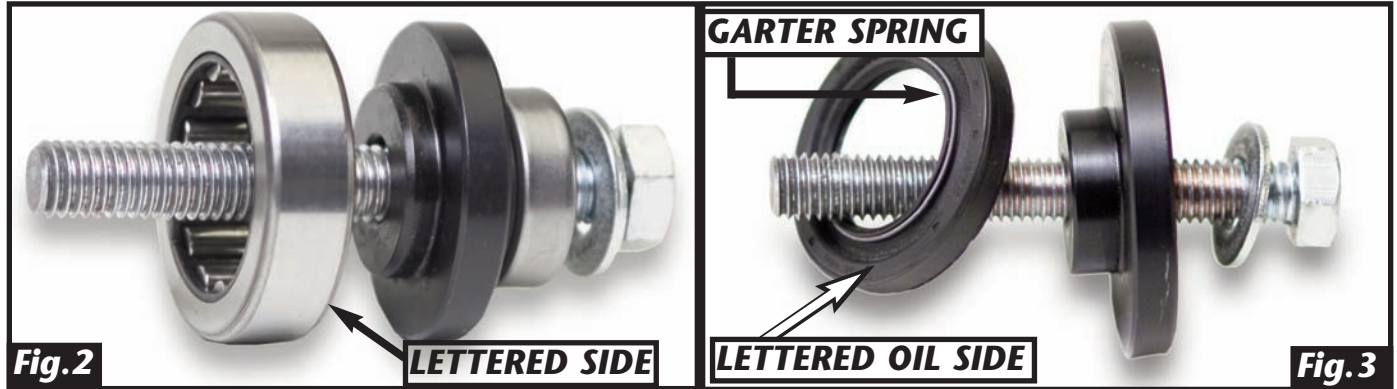
- 3) Place washer No. 2038 followed by bearing No.2010 over bolt No. 1211, then thru installer plate tool No. 967-3 with new bearing. **See FIG. 2.**
- 4) Position this assembly from the pulley side of primary cover into the bearing and seal bore. Next place receiver cup No. 967-2 from the clutch side of primary cover with lasered marked side toward bore, followed by washer No. 2038 and lubed nut No. 2036.
- 5) Tighten Nut with your 3/4" socket and torque wrench set at 30 ft-lbs, at the same time holding the screw with your 3/4" wrench.

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Note: Inspect to see that the bearing is started straight in its bore before you apply torque, and once installed that bearing has seated tight against the retaining ring.

6) Install a new retaining ring in the ring groove closes to the bearing you just installed.

Note: Inspect to see that the retaining ring is installed and seated 100% in its groove.

- 7) Lightly lube I.D. and O.D. of new seal. Place over the end of installer plate tool No. 967-1, with the open side of the seal facing the bearing that is installed. If using a H.D. seal, face side with garter spring (oil side) away from tool. Install on smaller end of tool inside seal. **See FIG. 3.**
- 8) Place washer No. 2038 followed by bearing No.2010 over screw No. 1211, thru installer plate tool No. 967-1, and new seal. **See FIG. 3.**
- 9) Position this assembly from the pulley side of the primary cover (same side the seal has been removed from) above the seal bore. Next place backing plate No. 967-3, with step inside bearing stopping at the retaining ring followed by washer No. 2038 and lubed nut No. 2036. **See FIG. 4.**
- 10) Tighten Nut with your 3/4" socket and torque wrench set at 30 ft-lbs, at the same time holding the bolt with your 3/4" wrench.

Note: Inspect to see that seal is started straight in its bore, before applying torque, and seal has stopped tight against retaining ring.



Fig.4

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