V-Twin MFG.

Jims 5 Speed Main Drive Gear Bearing Tool Instructions VT Part No. 16-0994

This Tool should only be used by a knowledgeable and trained motorcycle technician V-Twin Mfg. accepts no responsibility for improper use.

Bearing Installation

- 1. First place Thrust Bearing on HD-35316-5 Bolt followed by HD·35316-2 Bearing Driver.
- 2. With cover screws, secure HD-35316-3 Cross Plate to gasket surface of transmission case opposite the Main Drive Gear side. Position HD-35316-3 Plate on transmission case so that stamp mark is facing out.
- 3. Start bearing in bore of transmission case.
- 4. Install HD-35316-5 Bolt, Thrust Bearing and Driver Assembly (refer to step 1) through Main Drive Gear Bearing* into HD-35316-3 Cross Plate center hole.
- 5. Thread 1/2" nut on HD-35316-5 Bolt and turn clockwise to pull bearing into transmission case.
- 6. When bearing bottoms in bore, bearing is properly installed.
- * Note For Directional Placement of HD-35316-2 Driver:
 - A. 1980-84 Small size (S) Main Drive Gear Bearing. Place side stamped (S) (equivalent for small) against Main Drive Gear Bearing.
 - B. 1985 Large Size (L) Main Drive Gear Bearing. Place side stamped (L) (equivalent for large) against Main Drive Gear Bearing.

Main Drive Gear Removal

- 1. With cover screws, secure HD-35316-3 Cross Plate to gasket surface of transmission case opposite the Main Drive Gear side. Position HD-35316-3 Plate on transmission case such that stamp mark is facing out.
- 2. Install HD-35316·5 Bolt through HD-35316·3 Plate and through center of Main Drive Gear.
- 3. Place HD·35316-7 Washer (used to force gear out of bearing for this application only) over bolt and against threaded end of Main Drive Gear.
- 4. Place Thrust Bearing on bolt and thread on 1/2" nut. Turn nut clockwise to force Main Drive Gear out of bearing.

Main Drive Gear Installation

- 1. Install Thrust Washer onto HD-35316-4 Bolt. Place HD-35316-1 Installer Cup* onto HD-35316-4 bolt.
- 2. From outside of transmission case, install assembly described in step #1 through Main Drive Gear.
- 3. Place HD·35316-7 Washer over HD-35316-4 Bolt and against Main Drive Gear. Then thread 1/2" nut onto bolt.
- 4. Turn nut clockwise to install Main Drive Gear into bearing.
- *Note: Make sure open end diameter of HD-35316-1 supports and seats on bearing inner race properly before attempting to install Main Drive Gear.

