



A Division of Thiessen Products, Inc.

## INSTRUCTION SHEET FOR TOOL #970

### 3RD HAND AXLE LOCKER TOOL

If you have noticed, as you are torquing down the axle nut after you set the proper belt tension, the welded axle nut will move to the low side of adjuster cam. This movement will allow the belt to lose adjustment. Now with the JIMS® 3rd Hand Axle Tool, you will not need to find a helper to hold the nut or yourself having to reach around the tire and hold the nut from moving. Just place this tool over the welded nut on left side with the neck portion of tool resting over the swing arm. Hand screw the adjusting screw to take up any slack in tool. Torque the axle nut from the right side knowing that the welded nut will not turn allowing the belt to lose its adjustment.

No.970 - Use on all 2002 and later FL.

**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. Some people can ruin a mechanic's vise with a tack hammer. 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. JIMS® is not responsible for damage, injury or your work!

JIMS IS NOT RESPONSIBLE FOR THE QUALITY AND SAFETY OF YOUR WORK. Perform all work Per H-D service manual for appropriate year and model for the motorcycle you will be repairing.

See JIMS® catalog for a complete listing of all Engine and Transmission Tools



FIG 1.

#### JIMS TOOLS NEEDED TO PERFORM THIS SERVICE

1. Belt Tension Gauge No. 923 (for belt drives)
2. Chain or Belt Alignment Tool No. 918
3. FL Power Train Alignment Tool No. 964  
(Use on 1993 to 2008 FL)
4. Bike Center Jack No. 904
5. Tire Rotator Tool No. 936
6. 1- 7/16" torque adapter tool No.906

#### OTHER HAND TOOLS NEEDED TO PERFORM THIS SERVICE

1. ½" Torque Wrench, to 110 ft. lb
2. 1-7/16", 1/2 " Drive socket
3. ½ extension 8" long

Please follow for your year and model in H-D® or Clymer Service Manual for installing and torquing rear axle nut, including belt adjustment.

1. Raise motorcycle so wheel can be rotated, use JIMS Bike Center Jack No. 904

**Caution:** Tie bike down so it cannot and will not fall over.

2. Use JIMS Tire Rotator Tool No. 936 and Belt Tension Gauge No. 923 (for belt drives)

**Note:** Follow H-D Service Manual.

3. Install The 3rd Hand Locker Tool over the axle nut (the welded side) if you are satisfied with your belt adjustment, then with your thumb and fore finger thread (turn clockwise) the adjusting screw until it is snug to the top of swing arm. **See FIG 1**
4. Torque axle to spec using JIMS No.906 Torque Adapter and torque wrench.

**CAUTION: WEAR SAFETY GLASSES OVER YOUR EYES.**  
SEE JIMS® CATALOG FOR HUNDREDS OF TOP QUALITY PROFESSIONAL TOOLS.  
THE LAST TOOLS YOU WILL EVER NEED TO BUY.

*Performance Parts For Harley-Davidson Motorcycles*