

# INSTRUCTION SHEET FOR TOOL #901

**H-D CRUISE DRIVE 6-SPEED MAIN DRIVE GEAR REMOVAL TOOL  
USE ON ANY H-D 6-SPEED CRUISE DRIVE TRANSMISSION 2006 TO PRESENT**

**Other recommended JIMS® tools for H-D Cruise Drive 6-speed:**

- |   |  |
|---|--|
| No. <b>989</b> Mainshaft pulley locknut socket tool | No. <b>984</b> Trap door remover tool                    |
| No. <b>911</b> Trap door bearing remover tool       | No. <b>985</b> Shift fork shaft remover tool             |
| No. <b>972</b> Main drive gear seal installer tool  | No. <b>992</b> Modular transmission stand, all Twin Cams |
| No. <b>349920-84</b> Mainshaft race remover         |  |

**Read complete instructions thoroughly before disassembling or assembling. Refer to pictures, parts lists and reference drawings.**

**NOTE: IF YOU DO NOT KNOW WHAT YOU'RE DOING , DO NOT DO IT! ALWAYS WEAR SAFETY GLASSES OR OTHER FACE AND EYE PROTECTION SUCH AS A FULL FACE AND EYE PROTECTION. JIM'S IS NOT RESPONSIBLE FOR DAMAGE , INJURY, YOUR WORK, OR THE QUALITY AND SAFETY OF YOUR WORK.**

**RECOMMENDED TOOLS FOR USE WITH THIS TOOL**

- 2 - 3/4" Box end wrench
- 1 - 1/4" Allen wrench
- 1- Quality retaining ring pliers
- 1 - H-D Service Manual



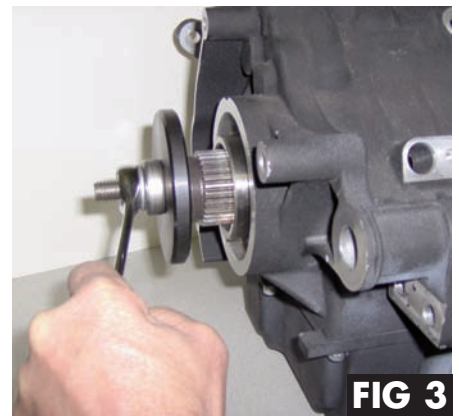
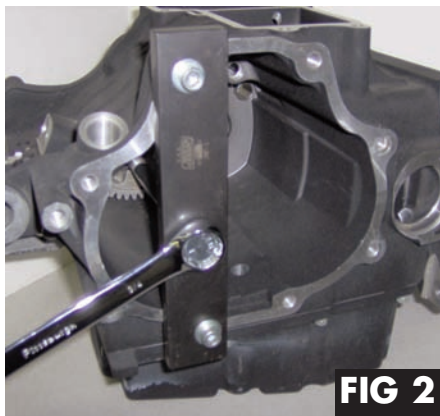
**REMOVING THE MAIN DRIVE GEAR**

1. Refer to H-D Service Manual for tear down of the transmission assembly to the point of removing the main drive gear.
2. Attach the installation bar tool No. **987-2** to the trap door side of case. Use two allen screws with washers H-D No.**3249** from existing trap door mounting hardware. **See Fig 2** for door mounting holes to locate plate correctly on case. Also, the plate has been laser marked with "Top" on the plate and should face you. **See Fig 2.**

<b>PARTS AVAILABLE SEPARATELY</b>			
No.	Qty.	Description	Part No.
1	1	Installation bar	987-2
2	1	Maindrive gear washer	35316-80-7
3	1	Screw 12" Lg	2138
4	1	Nut	2136
5	1	Washer	2038
6	1	Bearing	2010

3. Install No. **2138** 12" long screw through center hole of No. **987-2** installation bar and into case, through the mainshaft gear. **See Fig 2.**

4. Lube threads on end of screw No. **2138** hanging out of main drive gear. Install No.**35316-80-7** maindrive gear washer, bearing No. **2010**, No. **2038** washer and then No. **2136** nut on screw end. **See Fig 3.**



5. Use two 3/4" box end wrenches to remove gear. Hold No. **2138** screw with one wrench while using the other to tighten nut No. **2136** clockwise and the gear will come loose from the bearing.

*Performance Parts For Harley-Davidson Motorcycles*