



A Division of Thiessen Products, Inc.

# INSTRUCTION SHEET FOR TOOL #911

H-D CRUISE DRIVE 6-SPEED TRAP DOOR BEARING REMOVER / INSTALLER TOOL  
 USE ON ANY H-D 6-SPEED CRUISE DRIVE TRANSMISSION 2006 TO PRESENT

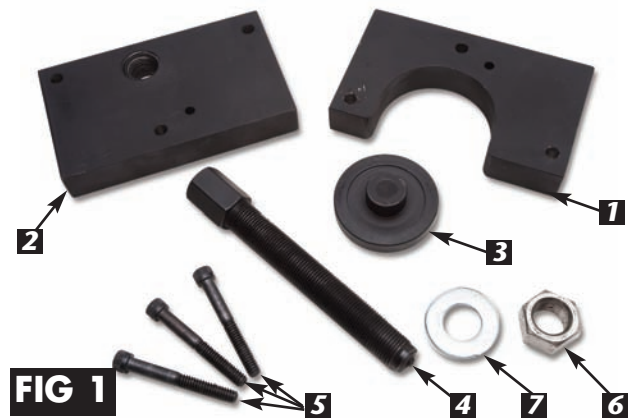
This tool is designed to function on a work bench tool and removes or installs Cruise Drive trap door bearings without using an arbor press.

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

- No. 989 Mainshaft pulley locknut socket tool
- No. 984 Trap door remover tool
- No. 900 Main drive gear and bearing remover / installer tool
- No. 985 Shift fork shaft remover tool
- No. 972 Main drive gear seal installer tool
- No. 992 Modular transmission stand, all Twin Cams
- No. 349920-84 Mainshaft race remover

Read complete instructions thoroughly before disassembling or assembling. Refer to figure No.'s, 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 WITH EYE PROTECTION. JIMS IS NOT RESPONSIBLE FOR DAMAGE, INJURY, YOUR WORK, OR THE QUALITY AND SAFETY OF YOUR WORK.**



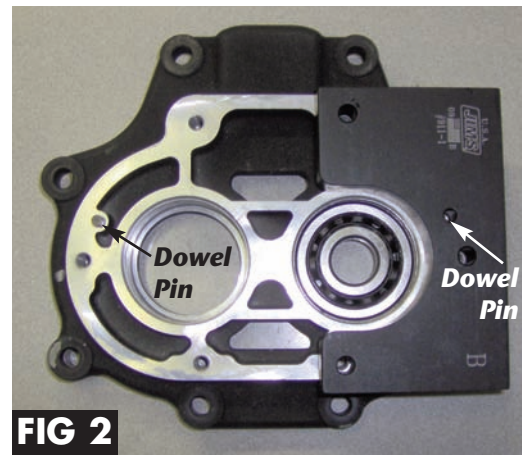
**OTHER TOOLS RECOMMENDED FOR USE WITH THIS TOOL**

- 2 - 3/4" Socket or box end wrench
- 1 - 3/8" Ratchet wrench
- 1 - 3/16" Allen wrench or Allen socket
- 1- Quality retaining ring pliers
- 1- Safety glasses
- 1 - H-D Service Manual

PARTS AVAILABLE SEPARATELY			
No.	Qty.	Description	Part No.
1	1	Lower plate	911-1
2	1	Upper plate	911-2
3	1	Installer pilot	1077-2
4	1	Screw	1024
5	3	Allen screw 1/4-20 x 2"	1203
6	1	Nut 5/8-18	1065
7	1	Washer 5/8 SAE	1064

**Removing The Old Trap Door Bearing**

1. Refer to H-D Service Manual for tear down of the transmission assembly to the point of removing the trap door from the case using JIMS® tool No **984**. Also you will need to remove mainshaft and countershaft gear assemblies from door bearings per service manual.
2. Remove retaining rings that sit against the two door bearings on trap door. Always wear safety glasses while performing this service.
3. We will instruct you on removing the front door bearing. Notice the two dowel pins on the outer side of trap door. **See Fig 2**. Set tool lower plate No. **911-1** on trap door and locate on dowel pin. You should have the plate lasered letter "B" facing upward toward you. **See Fig 2**.
4. Next place the upper tool plate No. **911-2** on top of lower plate No. **911-1**. The upper plate should have laser marked side with the letter "B" facing you. Now install lightly lubed three 1/4" Allen screws No.**1203**. into the three 1/4" holes on top of the upper plate thus attaching tool to trap door. Torque 3 allen screws to **100 inch pounds**. **See Fig 3**.
5. Next lube threads on tool screw No.**1024**. and install into No. 911-2 upper plate. Thread screw into bearing I.D. until screw is about a 1/2" past bear-



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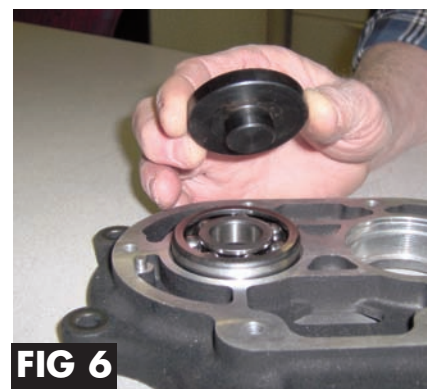
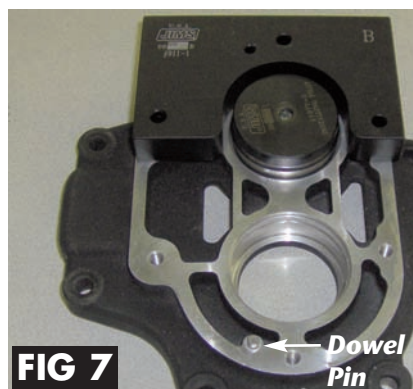
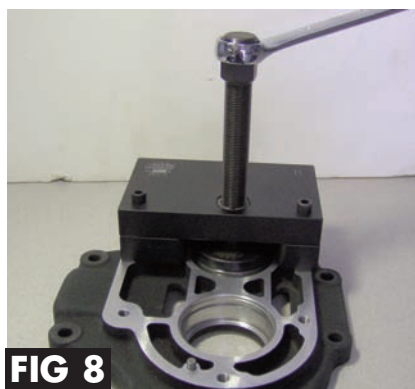
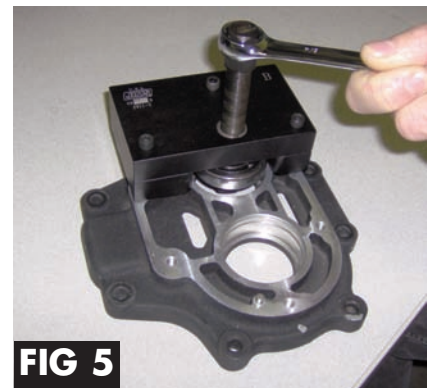
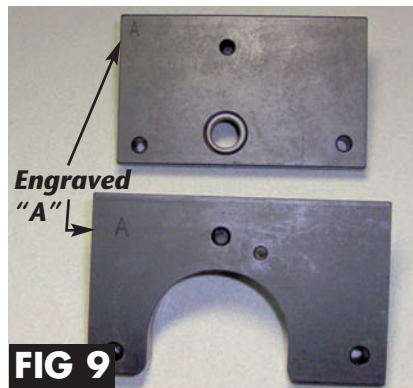
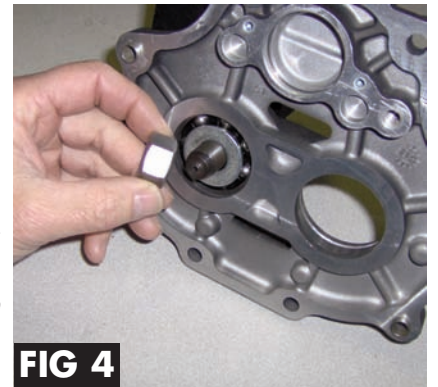
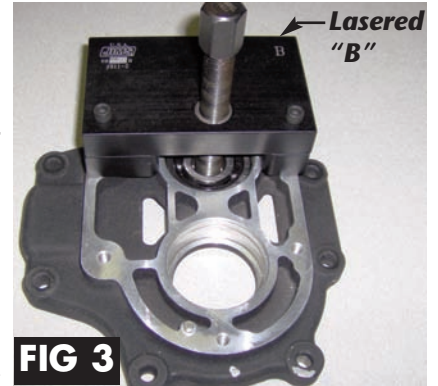
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ing. Then place washer No.1064 and nut No.1065 onto end on No.1024 screw. Nut should be installed far enough to have full thread engagement. **See Fig 4.**

6. Next secure trap door to bench or soft jaw vice. Then turn tool screw No.1024 counter-clock wise with a 3/4" box end wrench, or socket and ratchet, until bearing comes free from door. **See Fig 5.**

### Installing new trap door bearing

1. Inspect and clean trap door bearing surface and retaining ring groove. Clean as needed. After cleaning secure trap door on bench or vice with soft jaws.
2. We will instruct you on installing the front door bearing. Lube O.D. surface of new door bearing. Position lubed door bearing square over bore. Next Insert tool No.1077-2 installer pilot into I. D. of bearing. **See Fig 6.**
3. Notice the two dowel pins on the outer side of trap door. **See Fig 7.** Set tool lower plate No. 911-1 on trap door and locate on dowel pin. You should have the lasered letter "B" plate facing upward toward you. **See Fig 7.**
4. Next place the upper tool plate No. 911- 2 on top of lower plate No. 911-1. The upper plate should have laser marked side with the letter "B" facing you. Now install lightly lubed three 1/4" Allen screws No.1203. into the three 1/4" holes on top of the upper plate thus attaching tool to trap door. Torque 3 allen to **100 inch pounds. See Fig 8.**
5. Next lube threads on tool screw No.1024. and install into No. 911-2 upper. Turn screw clockwise No.1024 into installer pilot No.1077-2 using a 3/4" boxed end wrench or socket and ratchet. Turn screw until bearing seats in bearing bore.
6. Install new door bearing retainer ring into trap door.
7. When installing the rear trap door bearings attach the upper & lower plates to door with the engraved letter "A" facing you when using this tool and follow the same instructions. **See Fig 9.**



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