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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 as 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. **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. **34902-84** Mainshaft race remover
No. **786** Main Seal Installer Tool
No. **984** Trap door remover tool



FIG 1

Read instructions thoroughly before disassembling or assembling. Refer to figure No.'s, part list, and reference photos.

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 SHIELD. JIMS IS NOT RESPONSIBLE FOR DAMAGE, INJURY, YOUR WORK, OR THE QUALITY AND SAFETY OF YOUR WORK.*

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

OTHER TOOLS RECOMMENDED FOR USE WITH THIS TOOL

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

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 trap 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 three lightly lubed 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 three allen screws to *100 inch pounds*. **See Fig 3**.

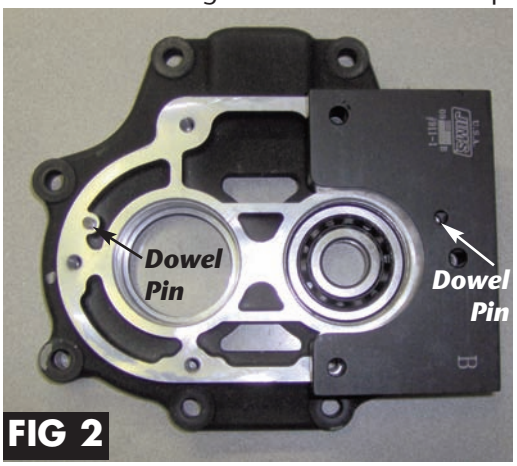


FIG 2

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5. Next lube threads on 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 bearing. Then place washer No.**1064** and nut No.**1065** onto end of 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 screw No.**1024** counter-clock wise with a 3/4" box wrench, socket, or 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 to 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 three lightly lubed 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 8.**

5. Next lube threads on screw No.**1024**. and install into No. **911-2** upper. Turn screw No.**1024** clockwise into installer pilot No.**1077-2** using a 3/4" boxed end wrench, socket, or 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 bearing, attach the upper & lower plates to door with the engraved letter "A" facing you. Follow the same instructions. **See Fig 9.**

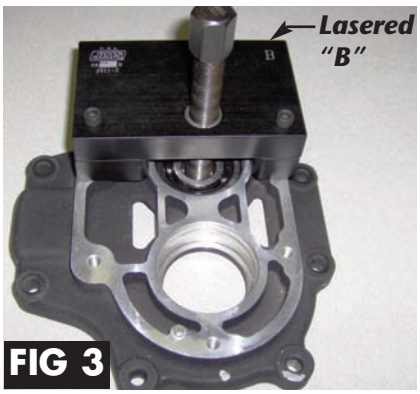
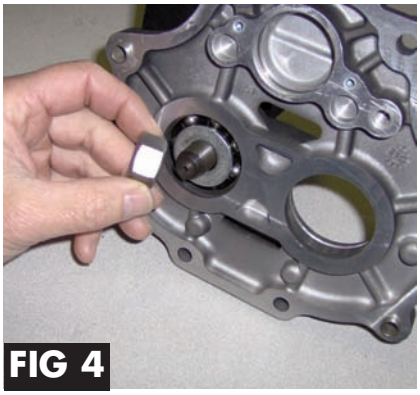


FIG 3


FIG 4

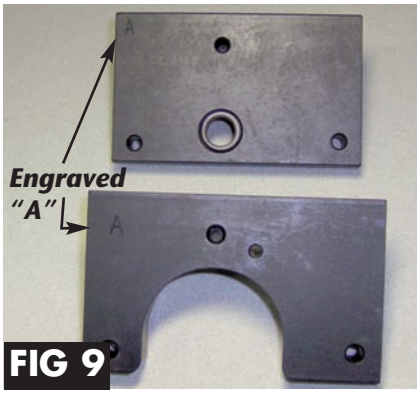
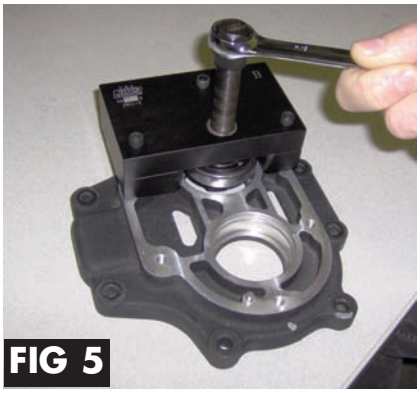
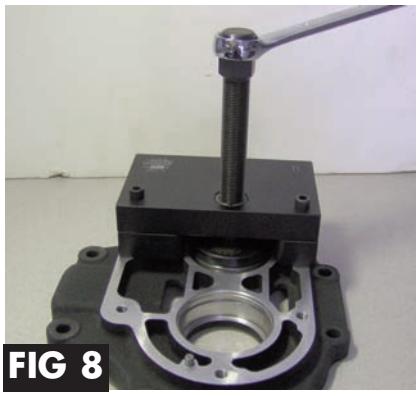


FIG 9


FIG 5


FIG 8

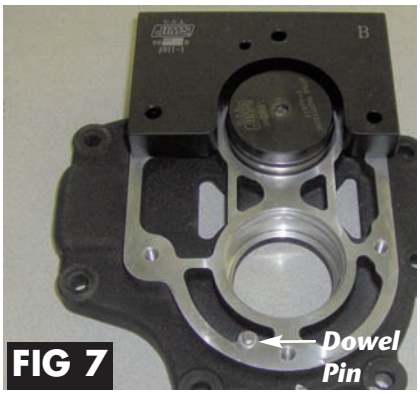
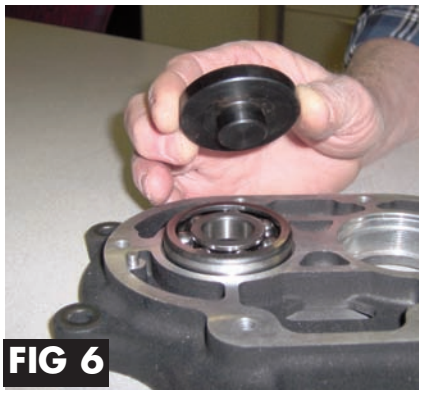


FIG 7


FIG 6