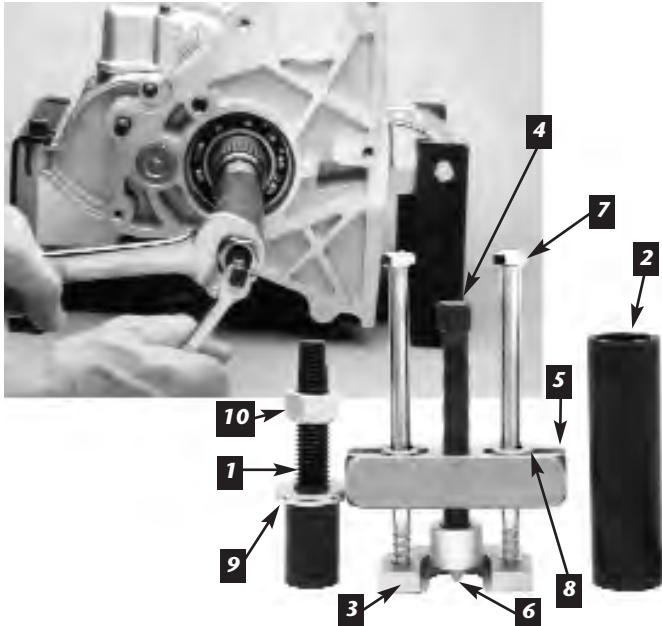




A Division of Thiessen Products, Inc.

INSTRUCTION SHEET FOR TOOL No.34902-84

MAINSHAFT BEARING RACE REMOVER AND INSTALLER USE ON BIG TWIN 1984-PRESENT



Refer to H-D® Service Manual for specifications.
Bearing Race Removal

1. Assemble bearing puller plate #3 with the two bolts #7 and washers #8 into the puller bar #5. Ensure the washers are located above the bar. Install center screw #4 with a little lube on threads. Install hardened tip #6. When correctly assembled, the tool should have the puller bar #5 aligned 90° to the bolts #7 as shown in the diagram. **Fig. 1**

2. Install assembly on main shaft positioning puller plate behind bearing race.

CAUTION: Be sure that both bolts are threaded flush with the backside of the puller plate and are equal in length. Uneven bolts may cause damage to the puller plate.

3. Using a wrench, turn center screw clockwise until the bearing race is pulled off mainshaft. Stabilize the Puller Bar #5 with a pair of Channel Locs while turning the Screw #4. If you feel a resistance of over 50 ft.lbs, you may need to apply heat to the O.D.

of the race to pull free. DO NOT exceed 200 degrees. **Note:** Use JIMS no. 899 Heat stickers when applying heat to the mainshaft to prevent overheating damage. Order separately.

Caution: Do not use impact type drivers with this tool or damage to the tool components will occur.

Make sure that the puller plate is positioned correctly during bearing race removal. The curved portion of the cut out MUST remain under the bearing race during removal. If the bearing race slips out of position, the puller plate will be severely damaged. Please refer to **Fig. 2** and **Fig. 3** for proper puller plate positioning.

PARTS AVAILABLE SEPARATELY

NO.	QTY.	DESCRIPTION	PART NO.
1	1	LEFT HAND THREADED EXTENSION	2139
2	1	PUSHER TUBE	2140
3	1	PULLER PLATE	34902-84-3
4	1	SCREW	1024
5	1	PULLER BAR	2013
6	1	HARDEN TIP	1025
7	2	BOLT	2030
8	2	FLAT WASHER	2212
9	2	FLAT WASHER	2020
10	1	NUT	2032
11	1	INSTRUCTION SHEET	34902-IS

Bearing Race Installation Oil all threads

1. Slide bearing race onto mainshaft with the chamfer toward trans. Use a press fit lube on race and shaft. **Fig. 1**
2. Install left handed extension shaft #1 to mainshaft.
3. Place pusher tube, #2, over extension shaft with large flat washer #9 and nut #10.
4. Tighten nut so race is .100" - .150" from the end of the main drive gear, refer to H-D® Service Manual.

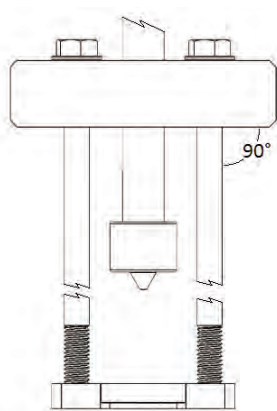


Fig. 1

No Gap: Puller Plate aligned correctly

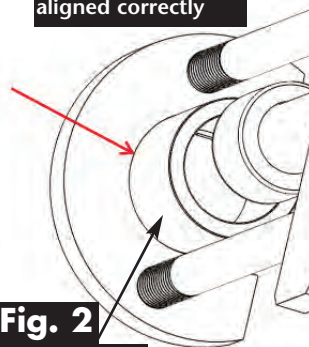


Fig. 2
Bearing Race

Gap present: Improper Puller Plate alignment. Damage to Puller Plate will occur.

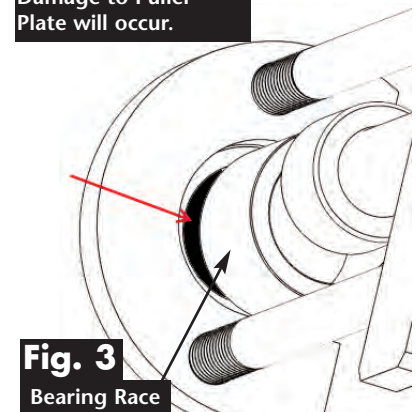


Fig. 3
Bearing Race

"From the Track... To the Street!"