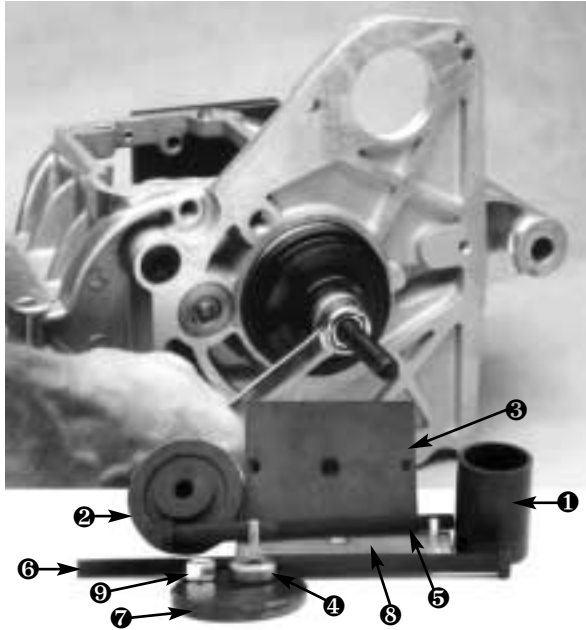




Instruction Sheet For Tool No.35316-80



Use to install main drive gear
and its bearing without
removing transmission
Use on Big Twin - 1980-present
Use on Sportster - 1991-present

PARTS AVAILABLE SEPARATELY

No.	Qty.	Description	Part No.
1	1	INSTALLER CUP	35316-80-1
2	1	BEARING INSTALLER PLATE	35316-80-2
3	1	MAIN PLATE	35316-80-3
4	1	BEARING	2010
5	1	8" BOLT	2137
6	1	12" BOLT	2138
7	1	GEAR PLATE	35316-80-7
8	1	XL MAIN PLATE	35316-91
9	1	NUT	2136
10	1	INSTRUCTION SHEET	35316-IS

Removing Main Drive Gear on Big Twins and Sportster

Refer to H.D.® Service Manual to remove access cover and gears. Install support bracket #35316-91 for Sportster. Install in the appropriate holes in trans case. For Big Twin use #35316-80-3 support bracket. Insert long bolt #2138 through support bracket and 5th gear. Make sure holes in the plate are on the same centerline as 5th gear. With cover screws, secure support plate to the opposite side of trans case. Install the long bolt through support plate and main gear. Place washer #35316-80-7 over bolt and against threaded end of main gear, followed by thrust bearing #2010, oil threads in nut #2136, install nut on bolt. Tighten nut slowly until main gear is free of bearing. Note: If you see corrosion by the gear to bearing surface, or if you are not seeing any movement of the main drive gear when tightening the nut, then you should heat the bearing with a butane torch - to break the bearing loose.

To remove main bearing from case, Use JIMS® No. 1720.

Caution: When removing the main drive gear the bearing may be destroyed! See service manual

Installing Main Drive Bearing on Big Twins and Sportster

Install support bracket in appropriate holes in trans case. For Sportster install support bracket #35316-91. For Big Twin use support bracket #35316-80-3. Place thrust bearing on long bolt, followed by #35316-80-2. One side of tool #35316-80-2 is used for 1980-1984 Big Twins to install H.D.® #8978 ball bearing. The other side is for 1985 and up to install #8996 ball bearing. Place bearing ahead of tool #35316-80-2. Use a press fit lube, like JIMS® #2124, on bearing, oil nut and tighten carefully until bearing is started in bore.

Installing Main Drive Gear on Big Twins and Sportster

Use a press fit lube, like JIMS® #2124, on main gear. From inside of case, hand start gear in bearing. Next place thrust bearing #2010 over short bolt #2137 followed by installer cup #35316-80-1. Install bolt thru gear with cup over gear, place tool #35316-80-7 over end of bolt. Oil nut and install, turn nut clockwise to install gear into bearing.

Caution: Make sure open end of tool #35316-80-1 supports and seats on bearing inner race before installing gear! Use a press fit lube, like JIMS® #2124. - Refer to H.D.® Service Manual.

CAUTION: Wear safety glasses. Excessive force may damage the parts! See JIMS® catalog for over 100 other top quality professional tools. The last tools you will ever need to buy.

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

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