**Instruction Sheet For Gear No.8292 (H.D.® No.35027-79)**

**Gear - Mainshaft third / Countershaft second**  
Use on 1980-present 5-speed Big Twin transmission  
Use 2 per transmission  
(Mate with JIMS® No.8291 (H.D.® No.35026-79) or equivalent only)

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**Thank you and congratulations!**

You and your Harley-Davidson® have just taken the first step towards owning the finest precision designed and engineered transmission components known to the Harley-Davidson® market. JIMS® gears and shafts surpass the stock requirements and demands of the present and future Harley-Davidson® motorcycle.

**WARNING: Disconnect negative cable of battery.**

1. Refer to H.D.® Service Manual for removal of old gears. (Do not reuse the lock rings) See JIMS® catalog for JIMS® transmission rebuild kit for the parts needed to rebuild a transmission, along with JIMS® professional service tools.

2. If you are replacing the mainshaft third gear on a 1994-present that is using (HCR) High Contact Ratio gears, you must replace part #35026-94 with JIMS® part No.8291 (H.D.® No.35026-79) or equivalent.

3. If you are replacing the countershaft second gear on a 1994-present that is using (HCR) High Contact Ratio gears, you must replace part #35026-94 with JIMS® part No.8291 (H.D.® No.35026-79) or equivalent.

4. Reassemble per H.D.® Service Manual using all new parts, and assembly lube as needed.

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**NOTE!**

**Replacement Gears Listing:**

When replacing gears, old to new, look on the face of the gear that is going to be replaced, for the lasered part number. See chart on page 2.

Example of gear replacement when replacing a gear from one of JIMS pre Aug, 2005 PRO-CUT Trans Kits after determining the part number lasered on each gear. Example: The gear to be replaced is lasered with number 8065, mainshaft 6th. Therefore the replacement gear will be 8300-1, mainshaft 6th CR. This new mainshaft 6th gear will need to be mated to the following two gears, countershaft 6th gear 8301-1 and mainshaft 1st gear 8289-1.

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

**Performance Parts For Harley-Davidson® Motorcycles**

555 Dawson Drive, Camarillo, CA 93012  
Phone 805-482-6913 • Fax 805-482-7422
### Instruction Sheet for Gear No. 8292 (H.D.® No. 35027-79)

<table>
<thead>
<tr>
<th>Early PRO-CUT Part Numbers</th>
<th>PRO-CUT Gear Description for the column to the left</th>
<th>Replacement Part Number</th>
<th>Mating Gear on opposing shaft (gear form)</th>
<th>Mating Gear on same shaft (dog to dog engagement)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lasered - 8065B Catalog # 8065B</td>
<td>Mainshaft 6th Gear</td>
<td>8300-1 MS 6th gear CR Catalog # 8300</td>
<td>8301-1 CS with 6th gear Catalog # 8300</td>
<td>8289-1 MS 1st gear Catalog # 8289</td>
</tr>
<tr>
<td>Lasered - 8066 Catalog # 8066B</td>
<td>Countershaft with integral 6th Gear</td>
<td>8301-1 Counter shaft w/ sixth gear Catalog # 8301-1</td>
<td>8300-1 MS 6th gear CR Catalog # 8300</td>
<td>N/A</td>
</tr>
<tr>
<td>Lasered - 8061P Catalog # 8061PB</td>
<td>P/C Mainshaft C/R 1st Gear</td>
<td>8289-1 MS 1st gear Catalog # 8289</td>
<td>8290-1 CS 1st gear CR Catalog # 8290</td>
<td>8294-1 MS 4th gear - Catalog#8294 8300-1 MS 6th gear - Catalog # 8300</td>
</tr>
<tr>
<td>Lasered - 8062 Catalog # 8062B</td>
<td>Countershaft C/R 1st Gear</td>
<td>8290-1 CS 1st gear CR Catalog # 8290</td>
<td>8289-1 CS 1st gear CR Catalog # 8289</td>
<td>8064 CS 4th gear Catalog # 8064</td>
</tr>
<tr>
<td>Lasered - 8058-7 Catalog # 8058G</td>
<td>P/C Mainshaft 4th Gear</td>
<td>94-1 MS 4th gear Catalog # 9294</td>
<td>8064 CS 4th gear (no change) Catalog # 80648</td>
<td>8289-1 MS 1st gear Catalog # 8289</td>
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<tr>
<td>Lasered - 8064 CS Catalog # 8064B</td>
<td>Counter 4th Gear</td>
<td>N/A</td>
<td>8294-1 MS 4th gear Catalog # 8294</td>
<td>8290-1 CS 1st gear CR Catalog # 8290</td>
</tr>
<tr>
<td>Lasered - 8058-5 Catalog # 8058E</td>
<td>P/C Mainshaft 3rd Gear</td>
<td>8292-1 MS 3rd gear Catalog # 8292</td>
<td>8293-1 CS 3rd gear Catalog # 8293</td>
<td>8291-1 MS 2nd gear Catalog # 8291</td>
</tr>
<tr>
<td>Lasered - 8063P Catalog # 8063PB</td>
<td>P/C Counter 3rd Gear</td>
<td>8293-1 CS 3rd gear Catalog # 8293</td>
<td>8292-1 MS 3rd gear Catalog # 8292</td>
<td>8292-1 CS 2nd gear Catalog # 8292</td>
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<tr>
<td>Lasered - 8058-3 Catalog # 8058C</td>
<td>P/C Mainshaft 2nd Gear</td>
<td>8299-1 MS 2nd gear Catalog # 8291</td>
<td>8292-1 CS 2nd gear Catalog # 8292</td>
<td>8292-1 MS 3rd gear - Catalog # 8292 8296-1 MS Main Drive gear Catalog # 8296</td>
</tr>
<tr>
<td>Lasered - 8058-2 Catalog # 8058B</td>
<td>P/C Counter 2nd gear</td>
<td>8292-1 CS 2nd gear Catalog # 8292</td>
<td>8291-1 MS 2nd gear Catalog # 8291</td>
<td>8293-1 CS 3rd gear Catalog # 8293</td>
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<tr>
<td>Lasered - 35029-91 Catalog # 35029-91A</td>
<td>Mainshaft M/D/Gear 5th</td>
<td>8296-1 MS 5th gear Catalog # 8296</td>
<td>8299-1 CS 3rd gear Catalog # 8299</td>
<td>8291-1 MS 2nd gear Catalog # 8291</td>
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<tr>
<td>Lasered - 53626-79B Catalog # 53626-79B</td>
<td>Counter 5th Gear</td>
<td>8299-1 MS 5th gear Catalog # 8299</td>
<td>8296-1 MS 5th gear Catalog # 8296</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Read All Instructions Before Performing Work!

**IF YOU DO NOT KNOW WHAT YOU ARE DOING, DO NOT DO IT!**

No information in this instruction sheet pertaining to motorcycle repair is represented as fool-proof or even altogether safe. Some people can ruin a mechanic’s vise with a tack hammer. Even something safe, done incorrectly or incompletely can and will backfire. You are responsible for the safety of your work and knowledge of the tools, repair equipment, components, methods and concepts needed to complete these tasks. You must carefully and systematically perform each and every step safely. All information listed in this instruction sheet has been tested, re-tested and used daily in JIMS Research and Development Department.

### JIMS® is Not Responsible for the Quality and Safety of Your Work!

If you are not sure about any of the procedures in these instructions, have a reputable H.D. repair shop perform these procedures for you. **WARNING:** Always disconnect the Battery Ground Cable (at the battery) to prevent injury. Your work area should be well lit. Wear safety glasses (over your eyes) and protective clothing when working around power tools and compressed air. Be careful with chemicals when cleaning parts. Protect your skin from solvents and use only in a well-ventilated area. Degreasers are flammable and are a fire hazard. Just use common sense and exercise good judgement.

### CAUTION: Wear Safety Glasses. Excessive Force May Damage Parts!

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