BAKER COMPENSATING SPROCKET

FOR 1985-2006 H-D® FLT™ & FXR™
P/N 155-56S
P/N 156-56S
P/N 157-56S

FOR 1985-2006 H-D® SOFTAIL® & DYNA®
P/N 155-56L
P/N 156-56L
P/N 157-56L
The BAKER™ Compensating Sprocket Kits replace an existing 24 or 25 tooth compensating sprocket with a 22 or 23 tooth compensating sprocket for any 1985-2006 Big Twin.

**LONG CHAIN CASE (SOFTAIL AND DYNA)**

Standard length used with stock 24/37 or 25/36 primaries=82 pitches

For 21/37 or 21/36 primaries use an 80 pitch chain, for 22/37, 22/36, 23/37, 23/36 or 24/36 use the stock 82 pitch chain length and flip the shoe.

**NOTE:** 94 AND LATER INNER PRIMARY HOUSINGS HAVE PEDESTAL-TYPE BOSS THAT MUST BE REMOVED FOR CHAIN CLEARANCE WITH THESE TOOTH COMBINATIONS.

**SHORT CHAIN CASE (FLT AND FXR)**

Standard length used with stock 24/37 or 25/36 primaries=76 pitches

For 21/37 or 21/36 primaries use a 74 pitch chain
For 22/37, 22/36, 23/37, 23/36 or 24/36 use the stock 76 pitch chain length and flip the shoe as shown.

**ON ALL 2001 TO 2006 MODELS USING 22 OR 23 TOOTH COMBINATIONS IT WILL BE NECESSARY TO REPLACE THE CHAIN TENSIONER WITH THE EARLIER VERSION FOUND ON 1985-2000 BIG TWIN MODELS AND FLIP OVER THE ADJUSTER SHOE AS WELL.**

**BAKER DRIVETRAIN COMPENSATING SPROCKET KITS ARE NOT COMPATIBLE WITH HAYDEN ENTERPRISES M6 CHAIN TENSIONERS.**

**REQUIRED READING**

Regardless of the skill level or experience of the individual installing the BAKER Compensating Sprocket kit, it is highly recommended that a Factory Service Manual be available for reference for the installation. Review the part of section 6 of your Factory Service Manual that pertains to the stock compensating sprocket removal and installation.

**SKILL LEVEL**

As with most things in life, there is no substitute for skill and experience. We highly recommend that only a seasoned experienced technician with an extensive background with Harley-Davidson® motorcycles and the American custom aftermarket successfully complete the installation.

**TOOLS**

- 3/16” ALLEN T-HANDLE
- ½” DR AIR OR ELECTRIC
- 11/2” – ½” DR SOCKET
- 1 3/16” – ½” DR SOCKET
- 9/16” – ½” DR SOCKET
- 7/16” – ½” DR SOCKET
- ½” DR RATCHET
- ½” DR TORQUE WRENCH
PARTS PROVIDED

P/N 156-56
Contains a 22 tooth compensating sprocket.

P/N 156-56S
Contains a 22 tooth compensating sprocket and a 76 pitch 428-2 chain for FXR and FLT type powertrains.

P/N 156-56L
Contains a 22 tooth compensating sprocket and an 82 pitch 428-2 chain for Softail and Dyna type powertrains.

P/N 157-56
Contains a 23 tooth compensating sprocket.

P/N 157-56S
Contains a 23 tooth compensating sprocket and a 76 pitch 428-2 chain for FXR and FLT type powertrains.

P/N 157-56L
Contains a 23 tooth compensating sprocket and an 82 pitch 428-2 chain for Softail and Dyna type powertrains.
BAKER COMPENSATING SPROCKET INSTALLATION INSTRUCTIONS

INSTALLATION

1) Remove the primary chain case cover. Refer to your Factory Service Manual for this procedure.

2) Remove the compensating sprocket nut with a 1-1/2" socket. A ½" impact gun is best for this task.

3) Remove the 1-3/16" clutch nut. This is a left handed nut so loosen it by turning it in the clockwise direction (as viewed from the left side of the motorcycle).

4) With one hand on the compensating sprocket and one on the clutch assembly, remove the primary drive assembly (compensating sprocket, primary chain, tensioner assembly, and clutch as shown in Figure A and set it on a clean surface.

5) Flip the adjuster shoe bracket on the chain tensioner assembly. Figure B shows the stock orientation of the adjuster show and bracket. Figure C shows the adjuster show bracket flipped 180°. To flip the shoe bracket, remove the two ¼-28x2 bolts that hold the bracket assembly together. This will allow you to separate the chain tensioner assembly components from the primary chain. Flip the bracket around as shown in Figure C.
6) Install the new compensating sprocket, chain, and clutch onto the motor sprocket shaft and the transmission input shaft. The flipped chain tensioner assembly (as shown in **Figure C**) is not ‘captured’ on the primary chain like the stock configuration. Loosely install the chain tensioner assembly onto the anchor plate bolt. Tighten the compensating sprocket nut to 157+ 7 ft-lbs and the clutch hub nut to 75+ 5 ft-lbs using red Loctite on the threads.

7) Adjust the chain tensioner assembly to 3/4” + 1/8 slack at the top chain.

8) If the primary chain case cover gasket is damaged or deteriated in any way, replace the gasket prior to reinstallation of the primary chain case cover.

9) Torque the chain case cover screws to 8+1 ft-lbs.

10) Fill the primary chain case with primary chain case lubricant per factory service manual.
ALL OTHER ORDERS

Orders can be pre-paid using VISA, Mastercard or American Express.

Prices shown are F.O.B. Haslett, MI. BAKER™ provides free UPS ground shipping on all retail orders for complete transmissions or transmission kit. UPS air shipment is available upon request. Customer is responsible for air shipment premiums.

LIMITED WARRANTY

BAKER™ Inc. transmission assemblies, transmission kits, and wide tire kits are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 60 (sixty) months from the date of purchase or up to 50,000 miles - whichever is sooner.

If the product is found by BAKER™ to be defective, such products will, at the option of BAKER™, be replaced or repaired at cost to BAKER™.

In the event warranty service is required, the original purchaser must call or write BAKER™ immediately with the problem.

If it is deemed necessary for BAKER™ to make an evaluation to determine whether the transmission assembly or transmission kit is defective, the entire transmission assembly, whether originally purchased as an assembly or kit, must be properly packaged and returned prepaid to BAKER™ with a copy of the original invoice of purchase.

If after an evaluation has been made by BAKER™ and a defect in materials and/or workmanship is found, BAKER™ will, at BAKER's option, repair or replace the defective part of the assembly.

Warranty card must be returned within 45 days of purchase to be valid.

ADDITIONAL WARRANTY PROVISIONS

This limited warranty does not cover labor or other costs or expenses incidental to the repair and or replacement of BAKER™ products. This warranty does not apply if one or more of the following situations is judged by BAKER™ to be relevant: improper installation, accident, modification (including but not limited to use of unauthorized parts), racing, high performance application, mishandling, misapplication, neglect (including but not limited to improper maintenance), or improper repair.

BAKER™ transmissions, transmission kits, and Wide Tire Kits are designed exclusively for use in Harley-Davidson® motorcycles. BAKER™ shall have no warranty or liability obligation if a BAKER™ part is used in any other application.

If it is determined that a BAKER™ transmission assembly has been disassembled during the warranty period for any reason, this limited warranty will no longer apply.

DISCLAIMER

The words Harley, and H-D are registered trademarks and are for reference only. Use of H-D model designations and part numbers are for reference only. BAKER Drivetrain has no association with, and makes no claim against, these words, trademarks, or companies.

It is the sole responsibility of the user to determine the suitability of this product for his or her use, and the user shall assume all legal, personal injury risk and liability and all other as well as all other obligations, duties and risks associated therewith.

CUSTOMER SUPPORT

For any installation or service questions, please contact our sales/technical department toll free: 1-877-640-2004.