



PV2-121036

INSTALLATION INSTRUCTIONS

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

BAKER COMPENSATING SPROCKET INSTALLATION INSTRUCTIONS

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 21/36 primaries use an 80 pitch chain, for 23/37 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 21/36 primaries use a 74 pitch chain

For 22/37, 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
- 1/2" DR AIR OR ELECTRIC
- 11/2" – 1/2" DR SOCKET
- 1 3/16" – 1/2" DR SOCKET
- 9/16" – 1/2" DR SOCKET
- 7/16" – 1/2" DR SOCKET
- 1/2" DR RATCHET
- 1/2" DR TORQUE WRENCH

BAKER COMPENSATING SPROCKET INSTALLATION INSTRUCTIONS

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 1/2" 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 shoe and bracket. Figure C shows the adjuster shoe bracket flipped 180°. To flip the shoe bracket, remove the two 1/4-28x2 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**.

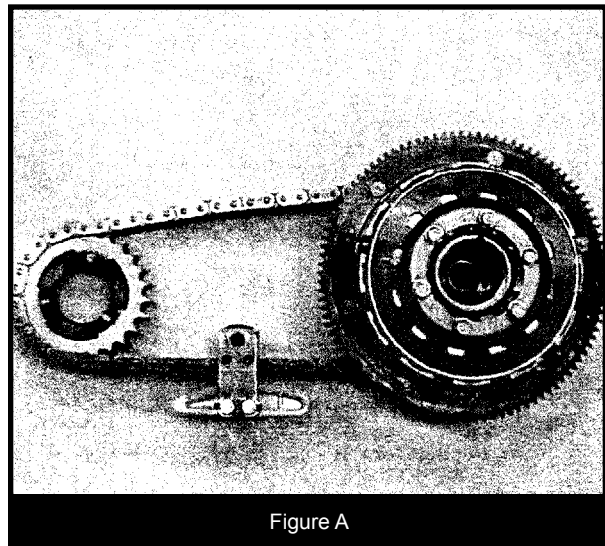


Figure A

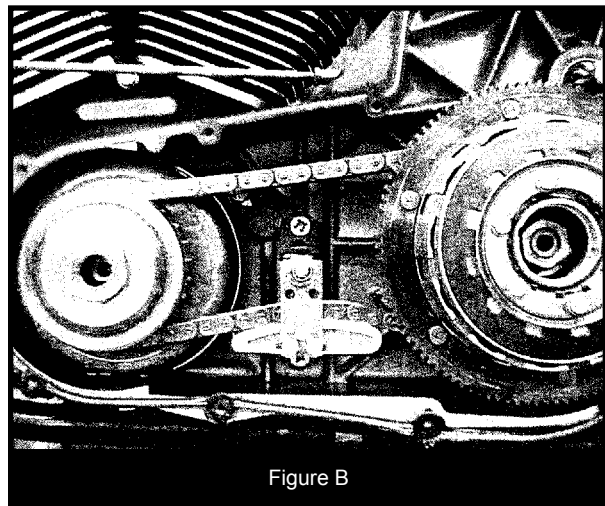


Figure B

BAKER COMPENSATING SPROCKET INSTALLATION INSTRUCTIONS

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 deteriorated 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.

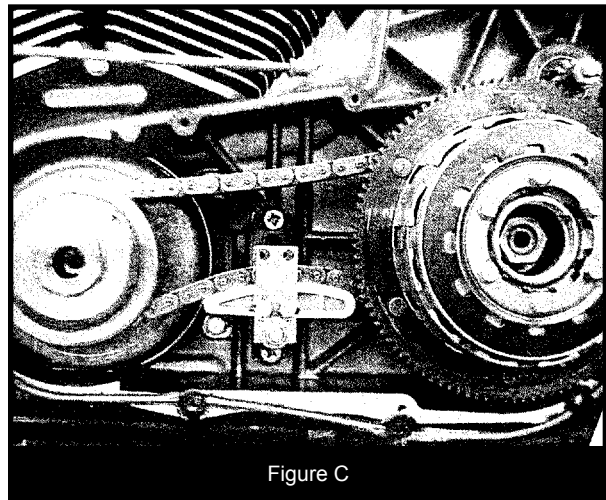


Figure C

TERMS & CONDITIONS

ORDERS

Orders can be pre-paid using VISA, MasterCard, American Express, and Discover or via wire transfer (\$30 wire transfer fee applies). All orders not pre-paid will be sent C.O.D. certified check or money order only unless pre-approved for company check acceptance. Any orders from outside the USA must be pre-paid in US funds via wire transfer (\$30 transfer fee applies). Prices shown are F.O.B. Haslett, MI. BAKER™ ships via UPS Ground or USPS Parcel Post for all orders. UPS air shipment or USPS Priority/ Express services are available upon request. Customer is responsible for all shipping charges unless otherwise arranged at the time of sale.

CUSTOMER SUPPORT

For any installation or service questions, please contact our BAKER technical department: 1-517-339-3835.

LIMITED WARRANTY

NOTE: Warranty card must be returned within 45 days of purchase for your warranty to be valid.

BAKER™ transmission assemblies and transmission builder 's kits, are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 5 years from the date of purchase or up to 50,000 miles, whichever occurs first. All other BAKER products are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 2 years from the date of purchase or up to 24,000 miles, whichever occurs first, except for the following; Warranty does not cover clutch plate wear, throw out bearing failures or mainshaft breakage due to improper clutch nut installation.

Electrical components carry a 30-day warranty; cosmetic finishes (chrome plating, hard anodizing, powder coating) are covered for 60 days. Certain promotional products may carry a shorter warranty as specified at the time of purchase. 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 a description of the problem. If it is deemed necessary for BAKER to make an evaluation to determine whether the transmission assembly or transmission kit or accessory 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 purchase invoice. If after evaluation by BAKER a defect in materials and/or workmanship is found, BAKER will, at their option, repair or replace the defective part of the assembly.

RETURNS AND EXCHANGES

Any merchandise returned for any reason (exchange, credit or modification) must be accompanied by a Return Goods Authorization (RGA) number or it will be refused. Call BAKER to obtain this number prior to returning goods for any reason. There is a 15% re-stocking fee for all returned items.

BAKER is not liable for any shipping.

ADDITIONAL WARRANTY PROVISIONS

NOTE: 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: BAKER OEM transmissions ; (these are subject to the OEM manufacturers warranty only), Improper installation , accident, modification (including but not limited to use of unauthorized parts, transmission oils or lubricants), racing, high performance application, mishandling, misapplication, neglect (including but not limited to improper maintenance), or improper repair.

BAKER shall not be liable for any consequential or incidental damages arising out of or in connection with a BAKER transmission assembly, transmission kit, component or part. Consequential damages shall include without limitation, loss of use, income or profit, or losses sustained as the result of injury (including death) to any person or loss of or damage to property.

BAKER transmissions, transmission kits and accessories are designed exclusively for use in American V-Twin motorcycles. BAKER shall have no warranty or liability obligation if BAKER parts are used in any other application.

If it is determined that a BAKER product has been disassembled during the warranty period for any reason, this limited warranty will no longer apply unless you were instructed to do so by a BAKER Drivetrain technician for diagnostic purposes.
