



A Division of Thiessen Products, INC.

## INSTRUCTION SHEET FOR SHAFT No.35042-85

### MAINSHAFT USE ON 1985-89 5-SPEED BIG TWIN TRANSMISSION



#### ***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, containing all the parts needed to rebuild a transmission, along with JIMS® professional service tools.
2. With mainshaft in hand, slip all the splined gears, No.35025-79B or No.35025-CR, and No.35026-79C, over mainshaft to check for free movement over splines. If gear does not move freely over mainshaft turn gear one tooth at a time until it slips over mainshaft smoothly.
3. If you have any rough or tight spots they will need to be lapped out. For lapping use JIMS® #1083 coarse lapping compound, or #1084 fine lapping compound.
4. Apply a few small finger dabs of lapping compound to I.D. of gear, slide gear over mainshaft with a back and forth motion several times.
5. Wash all traces of lapping compound from gear, and mainshaft, I.D. and O.D. NOTE: Check all other sliding gears for smooth movement on mainshaft, lap in if needed.
6. You may still need to turn gear one tooth at a time to find the smoothest fit.
7. Assemble per H.D.® Service Manual using all new parts, and assembly lube as needed.

#### • WARRANTY •

All JIMS® parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of six (6) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at JIMS® option if the parts are returned to us by the purchaser within the six (6) month warranty period or within ten (10) days thereafter.

In the event warranty service is required, the original purchaser must call or write JIMS® immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action. A part suspected of being defective must not be replaced by a Dealer without prior authorization from JIMS®. If it is deemed necessary for JIMS® to make an evaluation to determine whether the part is defective, it must be packaged properly to prevent further damage and be returned prepaid to JIMS® with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by JIMS® and the part was found to be defective, repair, replacement or credit will be granted.

#### • ADDITIONAL WARRANTY PROVISIONS •

1. JIMS® shall have no obligation in the event a JIMS® part is modified by any other person or organization.
2. JIMS® shall have no obligation if a JIMS® part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the part.
3. JIMS® shall not be liable for any consequential or incidental damages resulting from the failure of a JIMS® part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in nonconforming condition, or for any other breach of contract or duty between JIMS® and a customer.
4. JIMS® parts are designed exclusively for use in Harley-Davidson® motorcycles. JIMS® shall have no warranty or liability obligation if a JIMS® part is used in any other application.

**CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE PARTS!**  
SEE JIMS® CATALOG FOR OVER 100 OTHER TOP QUALITY PROFESSIONAL TOOLS.  
THE LAST TOOLS YOU WILL EVER NEED TO BUY.