

SERVICE BULLETIN



M-934

Safety Recall Code 061

November 14, 1986

1987 XL MODEL SERIES — MAINSHAFT 1ST GEAR

General

Routine quality testing has indicated that a small number of 1987 XL model series vehicles demonstrated a loss of power transfer to the rear wheel. Further investigation revealed that loss of power was due to gear tooth breakage at the mainshaft first gear in the transmission case. Unless remedied, the possibility theoretically exists where a piece of gear tooth could become lodged between the transmission gears. If this occurred in an operating vehicle, it may cause the drive train and rear wheel to lock up. Either potential problem (loss of power transfer to the rear wheel or transmission lock up) requires an unlikely chain of events. However, Harley-Davidson, Inc. has still declared this a safety defect to allow us to formally recall all potentially affected 1987 XL model series vehicles that were shipped prior to October 29, 1986.

As noted in our November 7, 1986 mailgram, the potential gear tooth breakage problem will be remedied by replacing the gear in question with a different proven and tested gear. No charge shipment of your estimated total code 061 kit requirements, part no. 93546, will begin November 14, 1986.

AFFECTED MOTORCYCLES

All 1987 XL model series vehicles shipped to your dealership prior to October 29, 1986.

All registered owners of record are being notified by mail to contact you and arrange to have the service performed at no charge to them (see enclosed letter). Each registered owner letter will include a Dealer Service Card which must be completed, dated and signed by both the customer and the dealer.

We are also including a computer list of registered and unregistered vehicles delivered to your dealership which are involved in this recall campaign. It is your responsibility to perform the required service on all potentially affected vehicles, including those which may not show up on your computer lists. We are enclosing blank Dealer Service Cards for that purpose. If necessary, additional cards are available through the Harley-Davidson Service Department.

IMPORTANT

If, at some time, you are not sure that any Safety Recall has been completed on a motorcycle, contact the Harley-Davidson Service Department for a computer check of our recall records.

IMPORTANT

Only registered owners, as shown on the enclosed computer list, will receive notification from us. Be sure that you contact any owners of potentially affected vehicles still listed as unregistered, warn them of the safety recall, and make arrangements for them to come in for service as soon as possible. We also request that you provide us with their names, addresses and VINs as soon as possible to enable us to mail them an owner's letter as required by the National Traffic and Motor Vehicle Safety Act, as amended.

Safety Recall 061 Kit Contents

To complete the following service procedure the items, in kit part no. 93546, listed below must be installed on all potentially affected vehicles.

| PART NO. | QTY. | DESCRIPTION |
|-----------|------|-----------------------|
| 12049 | 1 | Oil seal, mainshaft |
| 37101-84 | 1 | Oil seal, shift shaft |
| 11164 | 1 | Snap ring |
| 11045 | 1 | Snap ring |
| 34955-75 | 1 | Gasket, primary cover |
| 34624-77 | 1 | Gasket, primary cover |
| 2712 | 4 | Torx fastener |
| 35277-52A | 1 | Gear, mainshaft 1st |

Gear Replacement Procedure

WARNING

To prevent accidental starter operation and possible personal injury, disconnect battery cables (negative cable first) before doing any work on the engine, drive or electrical systems.

| | | | | | | | | | |
|---------|---------|---------|---------|----------|----------|----------|----------|----------|---------|
| ROUTING | SERVICE | SALES | PARTS | CHIEF | MECHANIC | MECHANIC | MECHANIC | MECHANIC | RETURN |
| | MANAGER | MANAGER | MANAGER | MECHANIC | NO. 1 | NO. 2 | NO. 3 | NO. 4 | THIS TO |
| INITIAL | | | | | | | | | |
| HERE | | | | | | | | | |

1. Remove transmission access cover following the Access Cover REMOVAL procedure, TRANSMISSION CASE, starting on page 6-16 of the 1986 to 1987 XLH Service Manual, Part No. 99484-87.
2. Discard the parts that are to be replaced by new parts in the recall kit.
3. Place access cover with transmission assembly on a clean surface. Remove the end play thrust washer from the end of the mainshaft. Remove the mainshaft assembly from the clutch gear.
4. See Figure 1. Place the mainshaft on an arbor press. Support the shaft assembly at the underside of first gear and press against the shaft. Press the mainshaft free of first gear and bearing inner race.
5. See Figure 2. Position the mainshaft upright as shown. Position the replacement gear from kit over shaft with oil retention groove upward. Place the bearing inner race on end of shaft with lettered side upward. Place a suitable sleeve against the bearing race. Press the race onto the shaft until it contacts the gear. With the inner race properly installed, mainshaft first gear will have no end play.
6. Insert the mainshaft into the clutch gear of the transmission assembly. Place the thrust washer over the bearing race.

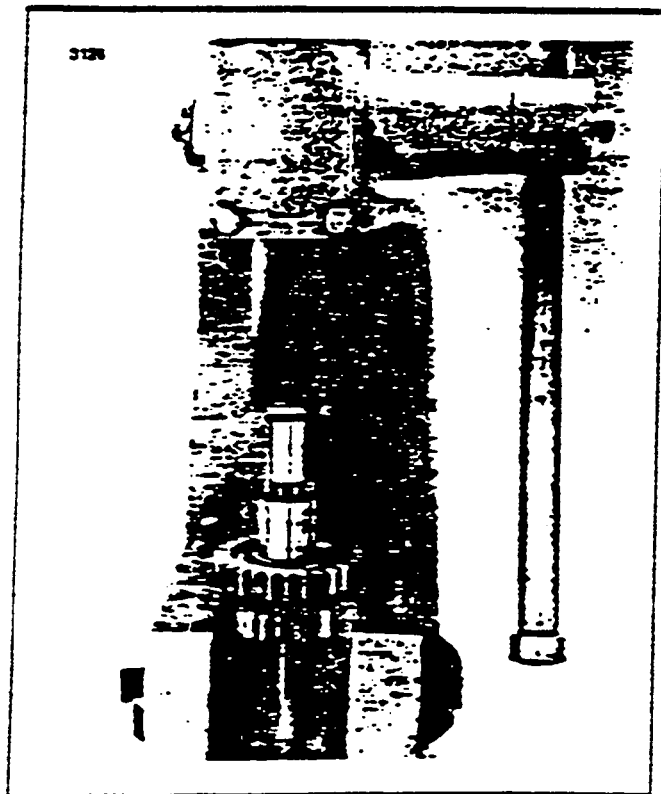


Figure 1. Pressing Off 1st Gear

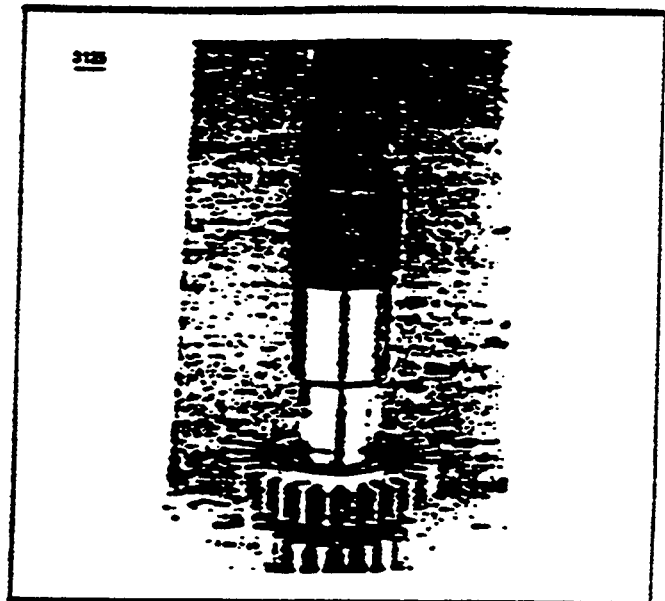


Figure 2. Pressing On Bearing Race

7. Install the transmission following the INSTALLATION instructions, TRANSMISSION FINAL ASSEMBLY, beginning on page 6-33 of the 1986 to 1987 XLH Service Manual, Part No. 99484-87. During the installation procedure be sure to use all the replacement parts that are furnished with the kit.
8. Install the sprocket cover, brake pedal, master cylinder, footrest and exhaust system as instructed in the INSTALLATION instructions, BRAKE LINKAGE AND SPROCKET COVER on page 2-27 of the 1986 to 1987 XLH Service Manual, Part No. 99484-87.

Credit Procedure

1. After servicing each vehicle, be sure to completely fill out special Dealer Service Card provided. For each vehicle serviced, place a 'C' in the letter box and a '1' in the Quantity box. Fill in your Dealer Account Number, the Service Code '061', the Vehicle Identification Number (VIN), and your dealership name and address along with the owner information, if blank.
2. Package the replaced mainshaft 1st gear with the properly completed Dealer Service Card.
3. Attach a return address P-label, Form Number 1248 to the outside of the package.
4. Upon receipt of each replaced gear and properly completed Dealer Service Card, you will be credited for postage, along with 1.1 hours to cover the cost of fluid and labor along with an additional .1 for dealer administrative time.