

SERVICE BULLETIN



M-998

SAFETY RECALL CODE 070

May 31, 1990

1990 XLH MODELS POSITIVE BATTERY CABLE WIRE FORM

General

Harley-Davidson, Inc. has become aware that some 1990 XL model motorcycles may have been assembled with wire forms not meeting specifications. These wire forms secure rubber grommets which serve as a routing guide for the positive battery cable. Theoretically, the possibility exists these wire forms could chafe the positive battery cable causing a short circuit to the motorcycle chassis. If this occurs, the battery cable might overheat, possibly to a degree which might cause a vehicle fire.

As a precautionary measure, Harley-Davidson elected to initiate a voluntary recall in the interest of motor vehicle safety. The potential problem will be remedied by replacing the nonspecification wire forms on the potentially affected vehicles with revised wire forms. This recall applies to 1990 XL model motorcycles manufactured and shipped from our York, Pennsylvania assembly plant from February 26, 1990 through May 3, 1990.

All registered owners of record are being notified by mail to contact you to arrange to have the service performed at no charge to them (see enclosed letter). Each registered owner letter will include a Dealer Service Card 070 which must be completed, dated, and signed by both the customer and the dealer. We have attached a list that contains both registered owners and unregistered vehicles

delivered to your dealership which are involved in this campaign. It is your responsibility to perform the required service on all potentially affected vehicles, even if the motorcycle was not purchased from your dealership, to insure the safety of all affected riders. We are enclosing sufficient blank Dealer Service Cards for those vehicles. If necessary, additional cards are available through the Harley-Davidson Service Department.

WARNING

Because only registered owners, as shown on the attached list, will receive notification from us, we request that you contact any owner of vehicles still listed as unregistered. Advise them of the safety recall and make arrangements for them to come in for recall service. We also require 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. If you are not sure that a recall has been completed on a particular motorcycle, contact the Harley-Davidson Recall Information Line at 1-800-448-1708 for a computer check of our recall records. Code 070 kits, Part Number 93617, must be ordered on the enclosed order form. Code 070 kits ordered on this form will be sent no charge, transportation paid. Note: part number 93617 is also used for safety recall code 069.

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO.4	RETURN THIS TO
INITIAL HERE									

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Inspection Procedure

See Figure 1. The battery cable wire form can be visually inspected on the vehicle without any prior disassembly. The wire form can be viewed from the right side by looking between the oil tank and the engine. The wire form is also visible from the left side by looking at

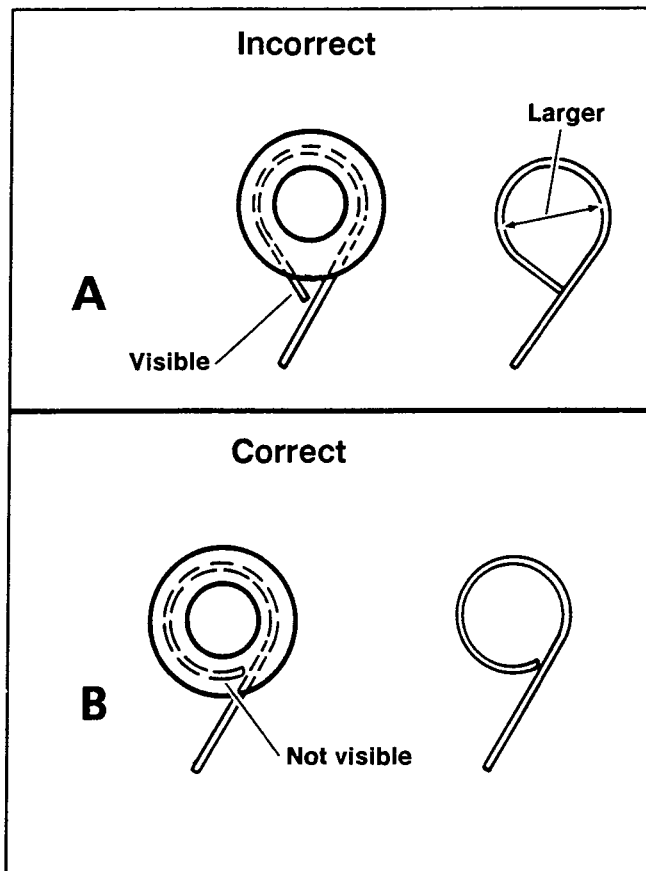


Figure 1. Wire Form Correct and Incorrect Identification

the wire form from in front of the battery. The end of the wire, on the incorrect wire form extends below the perimeter of the grommet and is visible as shown in view "A". The correct wire form makes a full circle, the end follows the curvature around the groove in the grommet and is not visible as shown in view "B".

If the inspected vehicle is found to have an incorrect wire form, perform the replacement procedure outlined below.

Replacement Procedure

1. Remove Phillips head screw and nylon washer at rear of seat. On 883 vehicles remove the solo seat. On 1200 and 883 Deluxe vehicles twist the seat and grab strap to provide access to top of battery.

2. Remove nut from end of battery hold-down strap. Free strap and battery cover.
3. Remove the negative battery cable with a long Phillips screw driver, inserted between oil tank and engine from opposite side of vehicle.
4. Remove bolt from battery positive terminal with 10mm. box end wrench. Remove the battery.
5. Remove nut attaching opposite end of battery positive cable to starter using a 1/4 inch drive, 12mm. socket and ratchet extension with universal joint.
6. Remove front battery carrier bolt and save. Remove boot from starter motor end of old cable. Retain original cable with wire form for return.
7. Take the new cable assembly and attach large ring terminal to starter stud with lockwasher and 12mm. nut. Tighten nut with socket and flex driver.
8. See Figure 2. Route cable upward in front of oil tank. Guide cable between frame backbone and battery.
9. Insert original front battery carrier bolt through washer, wire form and thread into carrier. Wire form must be installed on battery carrier as shown to orient the cable correctly. Torque bolt to 19 ft-lbs torque.
10. Hold battery on top of battery carrier. See Figure 3. Attach positive battery cable and red wire from circuit breaker to battery with bolt spacer and nut.
11. Attach negative battery cable to battery with bolt spacer and nut using long Phillips screw driver.
12. Slide battery all the way onto carrier. Place cover over top of battery. Hook battery strap through slot in carrier and bring around top of battery. Insert stud end through hole in carrier. Secure strap with washer and nut.
13. Install seat. Secure seat with nylon washer and Phillips head screw.

Credit Procedure

If upon inspection, the battery cable is found to have the correct wireform and does not require replacement, completely fill out the special Dealer Service Card provided. For each vehicle inspected place an "I" in the Letter box and an "0" in the Quantity box. Fill in your dealer account number, the service code 070, the Vehicle Identification Number, and your dealership name and address along with the owner information, if blank. Send the dealer service card, for inspection only, directly to the Service Department.

For each vehicle serviced on which the battery cable was replaced, completely fill out the special Dealer Service Card provided. Place a "C" in the Letter box and a "1" in the Quantity box. Fill in your dealer account number, the service code 070, the Vehicle Identification Number and your dealership name and address along with the owner information, if blank.

Package the original positive battery cable along with the properly completed dealer service card. Attach a return address "P" label, form 1248, to the outside of the package.

Upon receipt of each properly completed dealer service card and battery cable, you will be credited for return postage along with 0.3 of an hour for each cable replacement. Credit will not be issued for kits as they are sent no charge, transportation paid. For each properly completed dealer service card for cable inspection only, you will be credited 0.2 of an hour. Both time allowances include 0.1 of an hour for dealer administrative time.

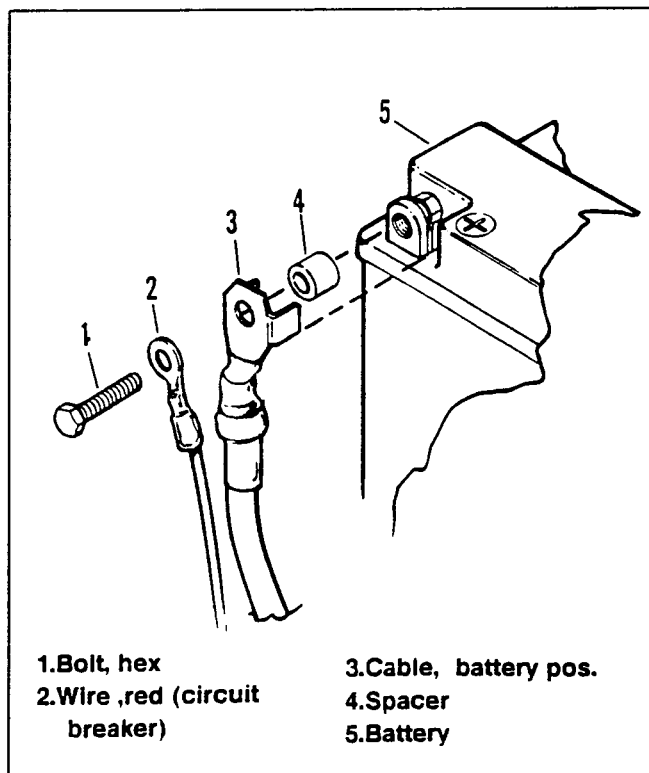


Figure 3. Positive Battery Terminal

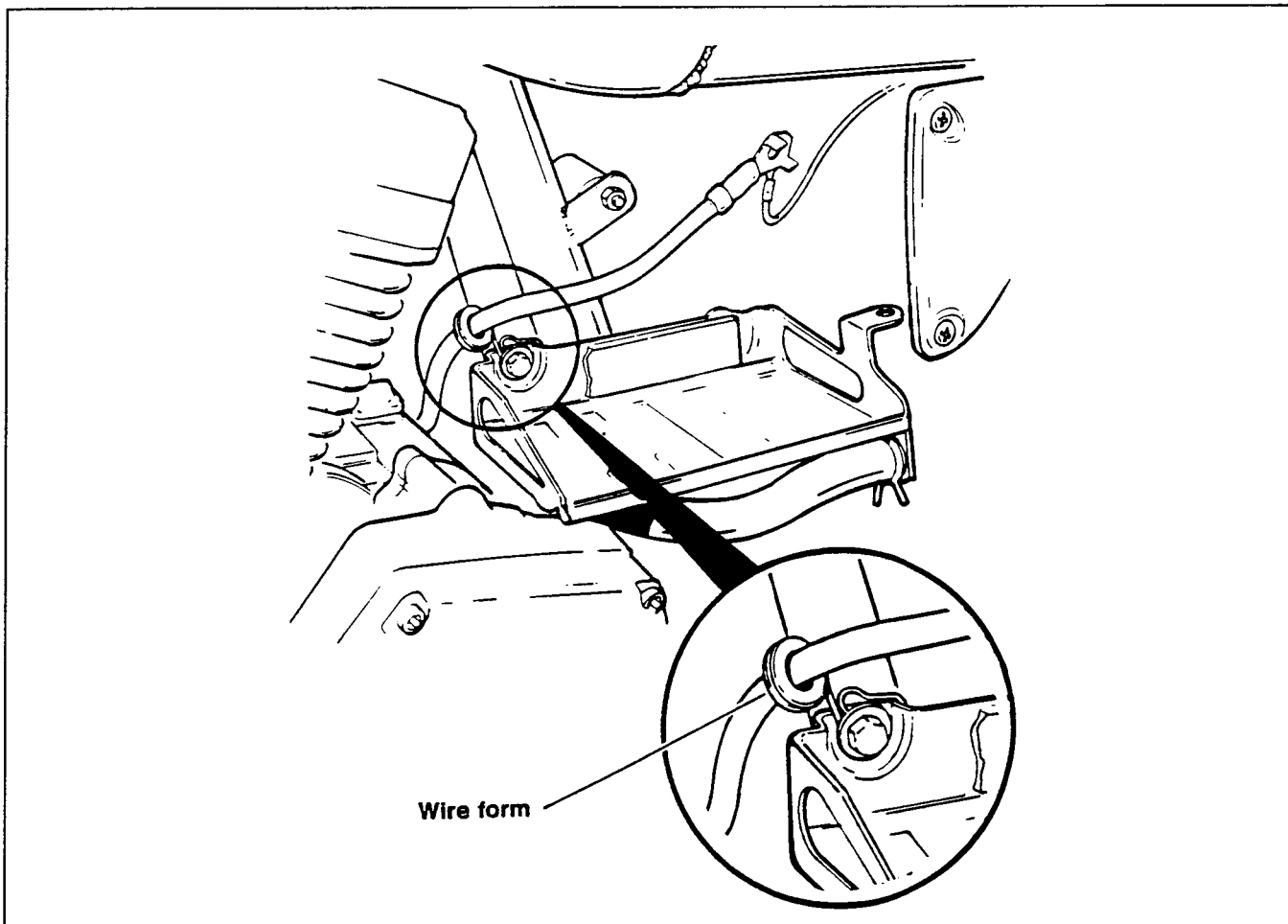


Figure 2. Cable Routing