

# SERVICE BULLETIN



M-1164

Safety Recall Code 0117

December 21, 2004

## ABS WARNING LAMP MALFUNCTION

### Purpose

As recently advised in ML-396, Harley-Davidson has learned that certain 2005 FLHTPI police model motorcycles were built with a defective interconnect harness.

On these vehicles, both the ABS and instruments (hence the ABS warning lamp in the tachometer) are wired through the same brakes/pursuit fuse circuit. If the fuse should blow, the rider will lose power to the ABS warning lamp at the same time that power is lost to the ABS. Since the lamp is not working, there is no indication to the rider that the ABS is also malfunctioning, a condition that can present an unreasonable risk of accident, injury or death.

In the interest of motor vehicle safety and customer satisfaction, Harley-Davidson has elected to initiate a voluntary recall (Campaign 0117) to replace the interconnect harness on all affected motorcycles. See REQUIRED DEALER ACTION to perform the recall service.

### Motorcycles Affected

2005 FLHTPI model motorcycles equipped with ABS and manufactured between June 2 and August 25, 2004.

### Customer Notification

Attached is a complete list of all motorcycles shipped to your dealership that are involved in this recall campaign. To protect the safety of our riders, it is our mutual responsibility to ensure that the recall service is performed on all affected motorcycles. Therefore, we strongly urge you to perform the recall service even if the motorcycle was not purchased from your dealership. You also are required to perform the service on all affected motorcycles in your dealership inventory prior to delivering or leasing those motorcycles.

If you are not sure that the safety recall service has been completed on a particular motorcycle, check the recall records available on TALON or h-dnet.com.

#### IMPORTANT NOTE

Because only registered owners as shown on the attached list will receive notification from us, we request that you contact any owners 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 VIN's 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).

### Required Dealer Action

An initial shipment of Safety Recall Code 0117 Kits (Part No. 94367) will be made on or around December 23, 2004. The contents of each kit is as follows:

**Table 1. Safety Recall Code 0117 Kit**

| Kit#  | Contents                    |
|-------|-----------------------------|
| 94367 | FLHTPI Interconnect Harness |
|       | 10006 Cable Strap (2)       |

#### NOTE

You will receive the kit(s) only if your dealership is on record as having received the affected vehicle(s).

All kits will be shipped no charge, transportation paid. Although kits are being shipped for all motorcycles involved in the recall campaign, you may call Rhonda Grabczyk at (414) 343-4088 in the event that additional kits are needed. Please be prepared to provide your name, dealership number, VIN (Vehicle Identification Number) of the motorcycle for which the kit is needed, as well as the reason for the request.

To complete the recall service, proceed as follows:

1. Replace the interconnect harness following the Removal/Installation procedure below.
2. Make copies of the attached schematics and update the FLHTPI interconnect harness and ABS circuit schematics in your copies of the following documents:
  - 2005 FLT Police Models Service Manual Supplement (Part No. 99483-05SP), pages 8-39 (Interconnect) and 8-51 (FLHTPI ABS).
  - 2005 Wiring Diagrams Wall Chart (Part No. 99949-05), pages 76 (Interconnect) and 110C (FLHTPI ABS).

### Removal

#### NOTE

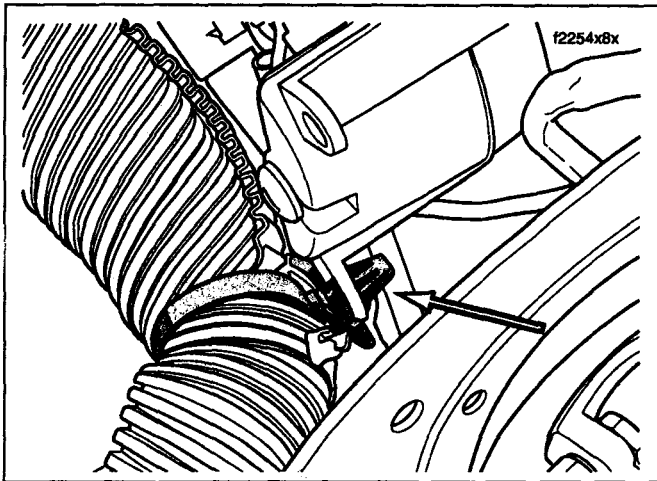
When referencing inner fairing locations, the term "fairing bracket" refers to either the left or right vertical support, while the term "support brace" refers to either the left or right horizontal support.

#### IMPORTANT NOTE

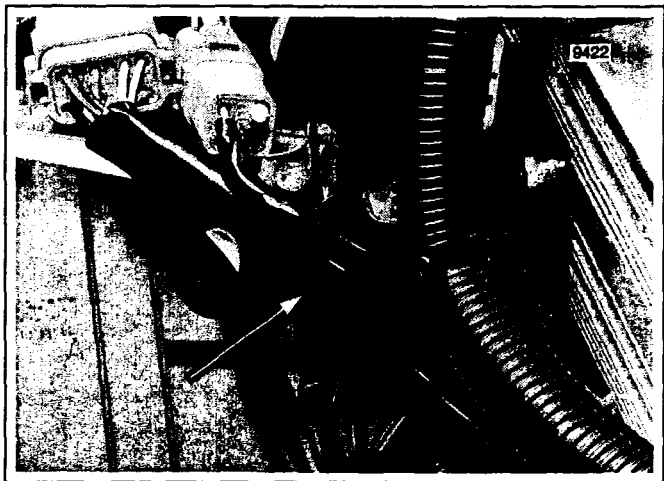
In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.

| 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 |                 |               |               |                 |                 |                  |                  |                  |                |

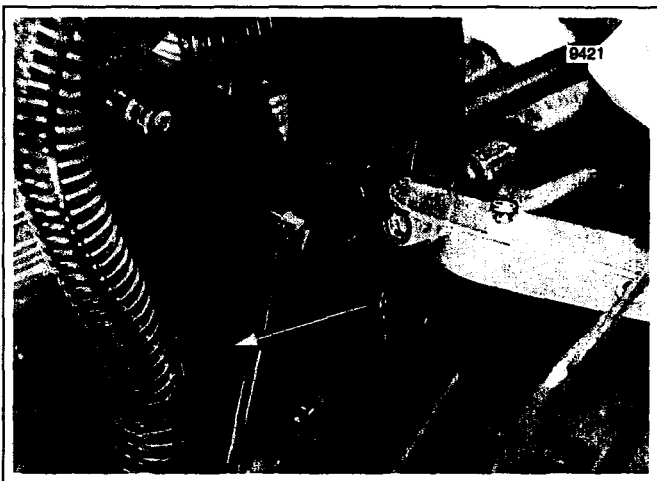
©2004 HARLEY-DAVIDSON MOTOR COMPANY



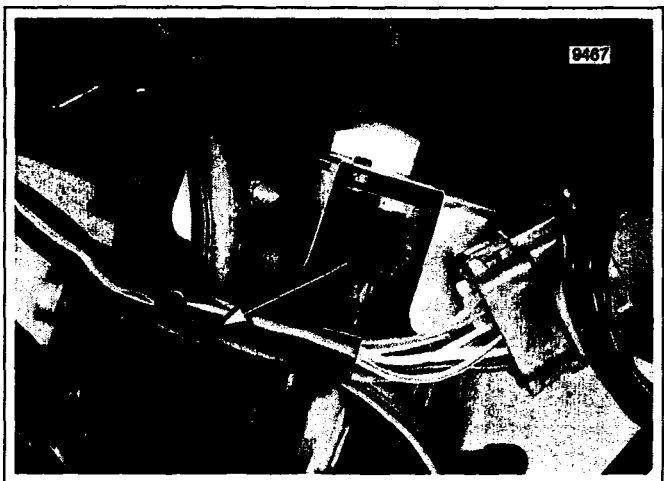
**Figure 1. Remove Anchors on Interconnect Harness From Ears of Speedometer/Tachometer Brackets**



**Figure 3. Cut Cable Strap to Release Tubing, Conduit and Connector From Fairing Bracket**

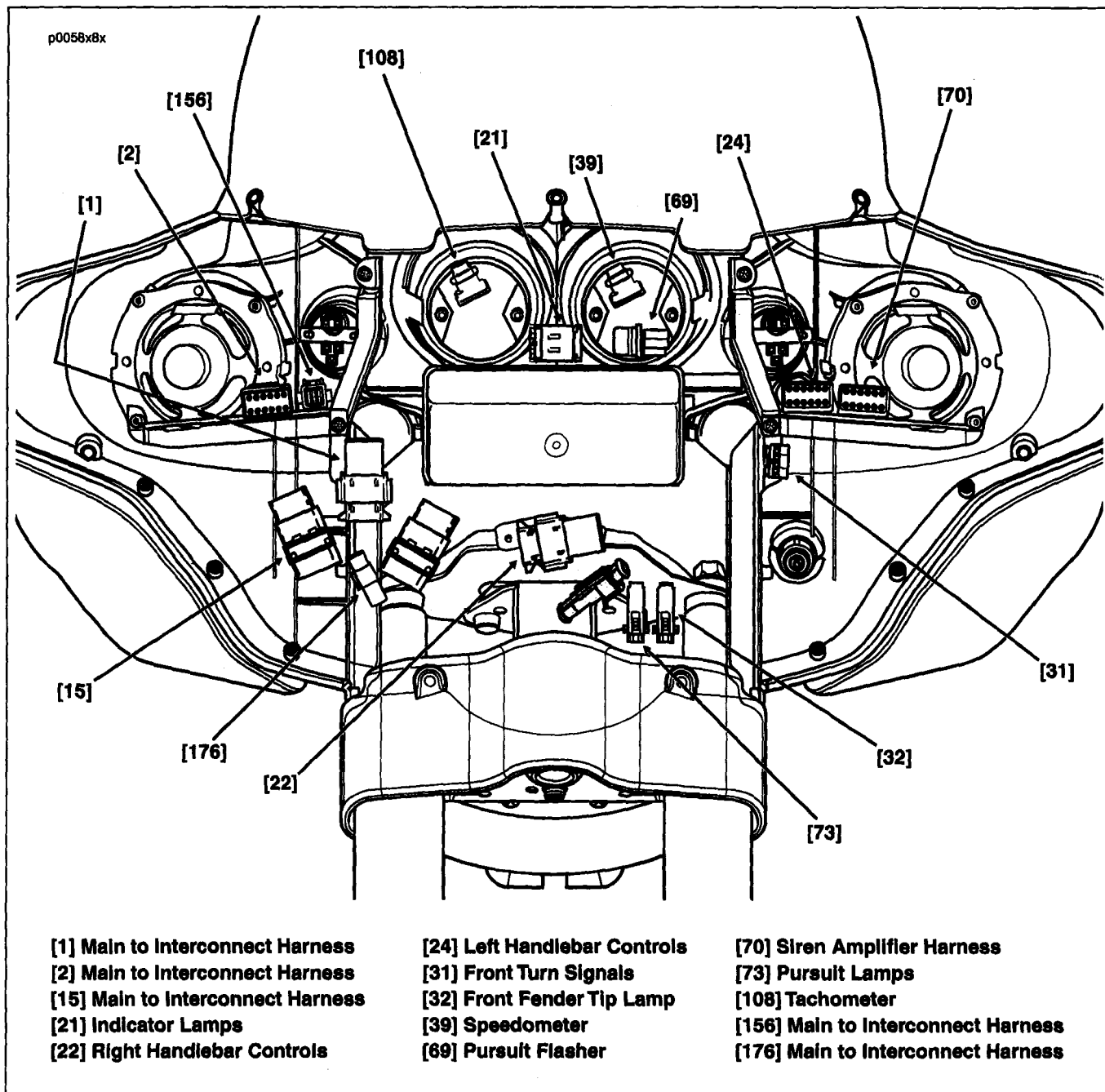


**Figure 2. Remove Anchor on Tubing of Headlamp Connector From Fairing Bracket**



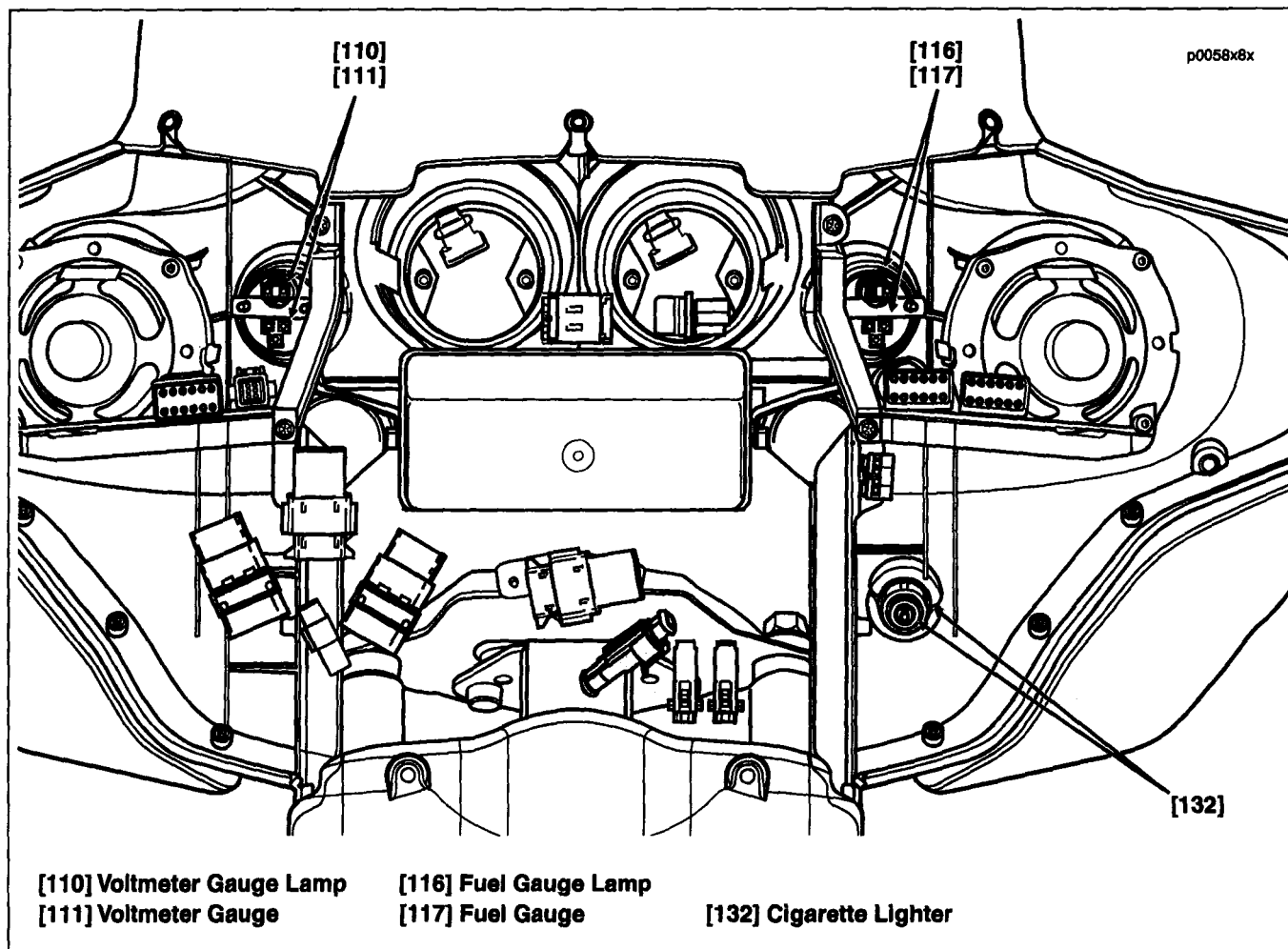
**Figure 4. Cut Cable Strap to Release Conduit From Brake Hoses at Front of Steering Head**

1. Remove maxi-fuse. See Section 8.3 SYSTEM FUSES, MAXI-FUSE, REMOVAL, in the 2005 Touring Models Service Manual (Part No. 99483-05).
2. Remove the outer fairing and windshield. See Section 2.29 UPPER FAIRING/WINDSHIELD (FLHT/C/U), OUTER FAIRING/WINDSHIELD, REMOVAL, in the 2005 Touring Models Service Manual (Part No. 99483-05).
3. Release anchors on convoluted tubing of interconnect harness from lower outboard ears of speedometer and tachometer brackets. See Figure 1.
4. Remove anchor on convoluted tubing of headlamp connector from hole in left fairing bracket. See Figure 2.
5. Cut cable strap to release convoluted tubing of interconnect harness, conduit of main to interconnect harness connectors [2] and [156], and housing of main to interconnect harness connector [1] from right fairing bracket. See Figure 3.
6. At front of steering head, carefully cut cable strap to release brake hoses from right handlebar switch control conduit. See Figure 4.
7. Remove connectors from their retaining devices, if present, and disconnect pin and socket halves. See Figure 5.
  - a. Main to interconnect harness connector [2], 12-place Deutsch (gray); T-stud on right fairing support brace (outboard side).
  - b. Main to interconnect harness connector [156], 6-place Deutsch (gray); T-stud on right fairing support brace (inboard side).
  - c. Indicator lamps connector [21]; 10-place Multilock (black); above glove box (between speedometer and tachometer gauges).
  - d. Speedometer connector [39]; 12-place Packard (black); back of speedometer. Unthread rubber boot from odometer reset switch and pull switch from hole in inner fairing.
  - e. Tachometer connector [108]; 12-place Packard (gray); back of tachometer.
  - f. Left handlebar switch controls connector [24], 12-place Deutsch (gray); T-stud on top of left fairing support brace (inboard side).



**Figure 5. Inner Fairing - Interconnect Harness Connectors (FLHTPI)**

- g. Siren amplifier harness connector [70], 12-place Deutsch (black); T-stud on top of left fairing support brace (outboard side).
  - h. Front turn signal connector [31], 6-place Multilock (black); T-stud on left fairing bracket (outboard side).
  - i. Main to interconnect harness connector [1], 12-place Deutsch (black); T-stud at front of right fairing bracket.
  - j. Main to interconnect harness connector [15], 4-place Packard (black); front of right fairing bracket.
  - k. Main to interconnect harness connector [176], 6-place Deutsch (gray); T-stud at front of right fairing bracket.
  - l. Right handlebar switch controls connector [22], 12-place Deutsch (black); T-stud on fork stem nut lock plate (left side).
  - m. Pursuit lamps connector [73], 2-place Multilock (white); below upper fork bracket (left side).
  - n. Front fender tip lamp connector [32], 2-place Multilock (black); below upper fork bracket (left side).
8. See Figure 6. Remove connectors from spade contacts as follows:
- Left side:
- Fuel gauge and lamp [116], [117]
  - Cigarette lighter [132]



**Figure 6. Inner Fairing - Interconnect Harness Connectors (FLHTPI)**

9. Feed conduit terminating in siren amplifier, fuel gauge, cigarette lighter, and front turn signal connectors to mid section of inner fairing (area between left and right fairing brackets). Also feed conduit terminating in left handlebar switch controls connector [24] to mid section.
10. Remove connectors from spade contacts as follows:  
Right side:
  - Voltmeter gauge and lamp [110], [111]
11. Feed conduit terminating in voltmeter gauge connectors to mid section of inner fairing (area between left and right fairing brackets). Also feed conduit terminating in main to interconnect harness connectors [2], [15] and [156] to mid section.
12. Remove interconnect harness from motorcycle.
3. From mid section of inner fairing (area between left and right fairing brackets), feed conduit terminating in siren amplifier, fuel gauge, cigarette lighter and front turn signal connectors behind left fairing bracket to area of left support brace.
4. See Figure 6. Install connectors onto spade contacts as follows:  
Left side:
  - Fuel gauge and lamp [116], [117]
  - Cigarette lighter [132]; connect the orange/white wire socket terminal to the socket spade contact, the black wire socket terminal to the shell contact.
5. From mid section of inner fairing (area between left and right fairing brackets), also feed conduit terminating in left handlebar switch controls connector [24] behind left fairing bracket to area of left support brace.

## Installation

1. Center interconnect harness on top of glove box. To verify proper orientation, be sure that convoluted tubing (with anchor) of headlamp connector is on left side of motorcycle.
2. Install anchors on convoluted tubing of interconnect harness into lower outboard ears of speedometer and tachometer brackets. See Figure 1.
6. From mid section of inner fairing, feed conduit terminating in voltmeter gauge connectors behind right fairing bracket to area of right support brace.
7. Install connectors onto spade contacts as follows:  
Right side:
  - Voltmeter gauge and lamp [110], [111]

8. From mid section of inner fairing, also feed conduit terminating in main to interconnect harness connectors [2] and [156] behind right fairing bracket to area of right support brace.
9. See Figure 5. Mate pin and socket halves of the following connectors and fix positions using retaining devices, if present:
  - a. Main to interconnect harness connector [2], 12-place Deutsch (gray); T-stud on right fairing support brace (outboard side).
  - b. Main to interconnect harness connector [156], 6-place Deutsch (gray); T-stud on right fairing support brace (inboard side).
  - c. Indicator lamps connector [21]; 10-place Multilock (black); above glove box (between speedometer and tachometer gauges).
  - d. Speedometer connector [39]; 12-place Packard (black); back of speedometer. Slide odometer reset switch through hole in inner fairing and install rubber boot.

#### NOTE

*The interconnect harness is provided with the pursuit flasher installed in connector [69] and taped to the convoluted tubing.*

- e. Tachometer connector [108]; 12-place Packard (gray); back of tachometer.
  - f. Left handlebar switch controls connector [24], 12-place Deutsch (gray); T-stud on top of left fairing support brace (inboard side).
  - g. Siren amplifier harness connector [70], 12-place Deutsch (black); T-stud on top of left fairing support brace (outboard side).
  - h. Front turn signal connector [31], 6-place Multilock (black); T-stud on left fairing bracket (outboard side).
  - i. Main to interconnect harness connector [1], 12-place Deutsch (black); T-stud at front of right fairing bracket.
  - j. Main to interconnect harness connector [15], 4-place Packard (black); front of right fairing bracket.
  - k. Main to interconnect harness connector [176], 6-place Deutsch (gray); T-stud at front of right fairing bracket.
  - l. Right handlebar switch controls connector [22], 12-place Deutsch (black); T-stud on fork stem nut lock plate (left side).
  - m. Pursuit lamps connector [73], 2-place Multilock (white); below upper fork bracket (left side).
  - n. Front fender tip lamp connector [32], 2-place Multilock (black); below upper fork bracket (left side).
10. At front of steering head, install **new** cable strap capturing brake hoses and right handlebar switch control conduit. Cut any excess cable strap material. See Figure 4.
  11. Using oval shaped hole in right fairing bracket, install **new** cable strap capturing convoluted tubing of interconnect harness, conduit of main to interconnect harness connectors [2] and [156], and housing of main to interconnect harness connector [1]. See Figure 3.

12. Install anchor on convoluted tubing of headlamp connector into hole in left fairing bracket. See Figure 2.
13. Install the windshield and outer fairing. See Section 2.29 UPPER FAIRING/WINDSHIELD (FLHT/C/U), OUTER FAIRING/WINDSHIELD, INSTALLATION, in the 2005 Touring Models Service Manual (Part No. 99483-05).
14. Install maxi-fuse. See Section 8.3 SYSTEM FUSES, MAXI-FUSE, INSTALLATION, in the 2005 Touring Models Service Manual (Part No. 99483-05).

## Credit Procedures

Complete a Dealer Service Card for each motorcycle serviced. Write safety recall code "0117" on the card and place the letter "C" in the letter box.

Package the interconnect harness along with the properly completed Dealer Service Card, and send to: Harley-Davidson Motor Company, Warranty Return Dept., 3801 W. Juneau Avenue, Milwaukee, WI 53208.

Upon receipt of the harness and a properly completed Dealer Service Card, you will be credited 0.6 hours of labor for performing the recall procedure, which includes 0.1 hours for dealer administration time. You also will be credited the cost of return postage.





**SAMPLE COPY**

December 27, 2004

Dear Harley-Davidson Motorcycle Owner:

This notice is being sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Harley-Davidson Motor Company, Inc. has decided that a defect, which relates to motor vehicle safety, exists on certain 2005 Model Year FLHTPI police motorcycles manufactured between June 2, 2004 and August 25, 2004. These vehicles were built with a defective wiring harness. On these vehicles, the antilock brake system (ABS) is wired through the same fuse circuit as the ABS malfunction warning light. As a result, if the ABS electrical circuits fuse were to blow the operator of the motorcycle would lose power to his ABS warning light at the same time he loses power to the ABS brake system. Since the ABS warning light would not illuminate due to the loss of electrical power the motorcycle operator might not be aware his ABS brakes were not functional, which could result in a crash without warning. The gauges of the motorcycle are also wired through this fuse circuit and, should this fuse blow, would also cease to function.

Our records indicate that you purchased one of the motorcycles involved in this safety recall identified by the VIN (Vehicle Identification Number) shown on this letter.

**We strongly urge you to take your motorcycle to your dealer to have the appropriate service performed as soon as possible. If you had this repair before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. For more information contact Harley-Davidson at 1-414-343-4056. Should you choose to ride your motorcycle prior to this service, we urge you to be aware of this condition.**

Please contact your Harley-Davidson motorcycle dealer immediately and arrange an appointment to have your wiring harness replaced. The dealer labor time to perform this service takes less than 1 hour and the parts and labor will be free of charge to you. Parts should be available at your dealership on approximately the week of December 20<sup>th</sup>, 2004.

To verify that the service has been completed, Dealer will ask you to sign a recall claim. If you have sold your motorcycle, please forward the appropriate information about your purchaser. This will enable us to contact him/her and advise that person of this recall. Also, Federal regulation requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

If you take your motorcycle to your dealer on a mutually agreed upon date and he does not perform the required service to your satisfaction, please contact Harley-Davidson Motor Company, Inc. for immediate assistance at the address or telephone number listed on this letterhead. If your dealer or Harley-Davidson Motor Company, Inc. fails or is unable to remedy your motorcycle without charge within a reasonable time, you may wish to inform the Administrator, The National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 25090, or call the toll-free Auto Safety Hotline at 1-888-DASH-2DOT or contact NHTSA at [www.NHTSA.DOT.GOV](http://www.NHTSA.DOT.GOV).

We regret any inconvenience this may cause you, but we are initiating this action in the interest of your personal safety and satisfaction with our products. Thank you for your cooperation.

Sincerely,

Harley-Davidson Motor Company, Inc.

## **Harley-Davidson Pre-Notification Remedy Reimbursement Program**

### **Recall Summary**

Harley-Davidson Motor Company, Inc. is recalling certain 2005 FLHTPI model police motorcycles manufactured between June 2, 2004 and August 25, 2004. Harley-Davidson has decided that there are motorcycles in the field that may have a defective wiring harness. On these vehicles, the antilock brake system (ABS) is wired through the same fuse circuit as the ABS malfunction warning light. As a result, if the ABS electrical circuit fuse were to blow the operator of the motorcycle would lose power to his ABS warning light at the same time he loses power to the ABS brake system. Since the ABS warning light would not illuminate due to the loss of electrical power the motorcycle operator might not be aware his ABS brakes were not functional. The gauges of the motorcycle are also wired through this fuse circuit and, should this fuse blow, would also cease to function. Our records show that you are the registered owner of one of the vehicles involved in this recall campaign.

### **Reimbursement Program**

(2) Our program for reimbursing a claimant who incurred costs prior to this recall for a remedy involving the defect which is the subject of this recall is as follows: subject to the limitations and qualifications noted below, we will reimburse the lesser of the dollar amount you paid for the remedy or your cost of remedy parts [at the Harley-Davidson list price for related, authorized parts], labor at local rates, and associated costs such as taxes and disposal fees.

Our remedy in this recall involves replacement of the wiring harness, and this is the only type of pre-notification remedy eligible for reimbursement consideration.

### **Time Limitation**

(3) The covered pre-recall remedy of your motorcycle must have occurred no later than January 25, 2005.

### **Exclusions**

(4) Harley-Davidson's Pre-Notification Remedy Reimbursement Program does not include reimbursement:

(a) for costs incurred while our original warranty, or an extended warranty as to which we gave written notice in either case, was in effect and would have provided a free remedy (without any consumer payment) of the problem involved in the recall, unless our authorized dealer or representative denied warranty coverage to you or the warranty repair did not remedy the problem involved in the recall;

(b) for a pre-notification remedy which was not of the same type as the Harley-Davidson recall remedy, which is a replacement of the wiring harness by Harley-Davidson.

(c) for a pre-notification remedy that did not address the defect involved in the recall;

(d) for a pre-notification remedy that was not reasonably necessary to correct the defect involved in the recall;

(e) for a pre-notification remedy involving a motorcycle first purchased more than 10 calendar years before the recall notice letter in this recall campaign was provided to owners or purchasers by Harley-Davidson; or

(f) for insufficient documentation of your claim for pre-notification reimbursement, as specified immediately below. If this is the case, you will be given an opportunity to resubmit the claim with the complete information.

**Required Claim Documentation**

(5) To process your claim, Harley-Davidson must have:

(a) your name and mailing address;

(b) the make, model, model year and vehicle identification number (VIN) of your motorcycle;

(c) the recall campaign number (you may provide either the NHTSA or Harley-Davidson recall number);

(d) name of the owner or purchaser of the recalled motorcycle at the time the pre-notification remedy was obtained;

(e) a copy of the receipt for the pre-notification remedy, which, in the case of a replacement of a motorcycle part or component, a copy of the receipt identifying the part, etc. involved and stating the total amount paid for the part, etc. which replaced the defective item; and

(f) if the pre-notification remedy was obtained when your motorcycle could have been remedied at no charge under a Harley-Davidson original or extended warranty, documentation indicating that our authorized dealer or facility either refused or failed to remedy the recall problem under our warranty program.

#### **Where to File a Claim**

(6) Claims for reimbursement, with the requisite documentation as itemized above, should be mailed to:

Harley-Davidson Motor Company  
Attn: Customer Service  
3900 W. Juneau Avenue  
Milwaukee, WI 53208

#### **Call Us With Your Questions**

(7) It is as important to us as it is to you that you understand the terms of our pre-notification reimbursement program. If you have any questions about the program or its possible application to you, please call us at 1-414-343-4056.

As always, Harley-Davidson stands behind its products and wants to assure your continued satisfaction with your Harley-Davidson motorcycle.

Harley-Davidson Motor Company