Purpose
On certain 2010 XL and XR Sportster models, the crimp on certain terminals in connector [90A] of the ET sensor can cause an intermittent or a total loss of connection. This failure can compromise performance, illuminate the check engine indicator and record a DTC in the ECM. This product program will replace the affected ET sensors.

Motorcycles Affected
2010 XL and XR Sportster models built June 26 through July 9, 2009.

Customer Notification
Harley-Davidson Motor Company, Inc. will send a letter to registered owners of affected products in the United States notifying them of this non-safety related condition and instructing them to contact their dealer for the replacement service. A sample of the customer letter is attached. Customers outside the United States market may not receive this notification.

Program Duration
This program is effective beginning September 24, 2009. Please be advised that the services delivered under this product program will no longer be rendered at factory expense after two years from the date of this bulletin (September 24, 2011).

Kit Ordering Information
No wave shipments will be conducted. The kit (Part No. 94752) will be available to order beginning September 24, 2009.

Table 1. Kit (Part No. 94752) Information

<table>
<thead>
<tr>
<th>KIT</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine temperature (ET) sensor</td>
<td>32472-10</td>
</tr>
</tbody>
</table>

Required Dealer Action
Check the VIN on h-dnet.com to determine program involvement and to confirm that the product program for the motorcycle is still open.

- h-dnet.com/Service Toolbox/Product Campaign and Open VIN Lists. Select 0909 campaign to view the VIN list.

Preparation

⚠️ WARNING
To prevent spray of fuel, purge system of high-pressure fuel before supply line is disconnected. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00268a)

Gasoline can drain from quick-connect fitting when removing fuel line. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. Wipe up spilled fuel immediately and dispose of rags in a suitable manner. (00267a)

1. Purge the fuel supply hose and disconnect the fuel supply hose from the fuel pump. See the service manual.

2. Remove the main fuse.

Remove the Fuel Tank

- XR Models: Carefully remove the retainer securing the throttle cables to the plate on the bottom of the fuel tank. The retainer will be reused.

- All Models: Carefully remove the barbed cable strap that secures the fuel pump wire harness to the ECM caddy (XL models) or the H-bracket (XR models). The barbed cable strap will be reused.

See the service manual.
**Disconnect the ET Sensor Wire Harness**

1. See Figure 1. or Figure 2. Disconnect the ET sensor connector [90] (1).
2. Remove the barbed cable strap (2) on the ET sensor wire harness from the ECM caddy (XL models) or H-bracket (XR models).
3. **XR Models**: See Figure 2. Disconnect the breather hose (3) from the rear cylinder head.

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**Remove the Sensor**

1. See Figure 3. Assemble a ratchet, 6 inch extension (1) and universal joint (2) to the TEMPERATURE SENSOR SOCKET (Part No. HD-48116A) (3).
2. Fit the ET sensor wire harness (4) into the slot in the socket and slide the socket down the harness through the square hole in the center of the rear rocker cover and over the ET sensor (5).
3. Wrap tape (6) around the harness and the extension.
4. Remove the sensor.

![Figure 1. ET Sensor Wire Harness: XL Models](image1)

![Figure 2. ET Sensor Wire Harness: XR Models](image2)

![Figure 3. ET Sensor Tool Assembly](image3)

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**Install the Sensor**

1. Fit the new ET sensor in the socket and wrap tape around the harness and extension.
2. Slide the socket down the opening in the rocker cover.
3. Install and tighten to 120-168 in-lbs (13.6-19.0 Nm).
4. Connect the ET sensor [90].
5. Press the barbed cable strap into the ECM caddy (XL models) or H-bracket (XR models).
6. **XR Models**: See Figure 2. Connect the breather hose (3) to the rear cylinder head.

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**Install the Fuel Tank**

**NOTES**

- **XR Models**: Reuse the throttle cable retainer.
- **All Models**: Reuse the barbed cable strap.

See the service manual.

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**Return to Service**

1. Connect the fuel supply hose.
2. Install the main fuse.
3. Turn the ignition switch on and verify fuel pump operation and check for leaks.
4. Clear DTC’s if present using speedometer self diagnostics.
5. Verify proper operation with no check engine lamp. See the electrical diagnostic manual.
Credit Procedure -
U.S. Market/Non-U.S. Market

Complete an electronic warranty claim referencing Service Bulletin M-1260. Fill in the rest of the form as follows:

<table>
<thead>
<tr>
<th>Claim Type</th>
<th>PPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Problem Part No.</td>
<td>32472-10</td>
</tr>
<tr>
<td>Part Description</td>
<td>ET Sensor</td>
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<tr>
<td>Quantity</td>
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<tr>
<td>Primary Labor Code*</td>
<td>7707</td>
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<tr>
<td>Time</td>
<td>0.5</td>
</tr>
<tr>
<td>Customer Concern Code*</td>
<td>0909</td>
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<tr>
<td>Condition Code</td>
<td>9981</td>
</tr>
<tr>
<td>Replacement Part No.</td>
<td>94752</td>
</tr>
<tr>
<td>Quantity</td>
<td>1</td>
</tr>
</tbody>
</table>

* These codes may need to be downloaded into your system.

**Return Information**

Upon receipt of the properly completed claim, you will be credited for the labor time as shown for performing this service. Hold all parts for 60 days from date of credit. After 60 days, the parts must be destroyed and discarded.

Each vehicle repair must be filed on an individual claim. Please do not submit additional events on these claims.
### M-1260 PRODUCT PROGRAM CODE 0909

<table>
<thead>
<tr>
<th>TYPE CODE</th>
<th>ORDER TYPE</th>
<th>VEHICLE IDENTIFICATION NUMBER(S)</th>
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</thead>
<tbody>
<tr>
<td>RC</td>
<td>RECALL</td>
<td></td>
</tr>
<tr>
<td>PC</td>
<td>PRODUCT CAMPAIGN</td>
<td></td>
</tr>
</tbody>
</table>

### QUANTITY | PART NUMBER | ITEM
---|-------------|---------|
|             | 94752       | Code 0909 Engine Temperature Sensor |

**NOTE:** All orders are subject to approval. You may not receive the total quantity of kits ordered due to parts availability. If this happens, please submit another order for the balance, following all order procedures indicated in the Service Bulletin. Fax orders to the warranty department: 414-343-8346. You must include VIN number (required) and your dealer number.

**ALL ORDERS SUBJECT TO ACCEPTANCE AT MILWAUKEE, WI USA 53201**

**NOTE:** An order acknowledgement is automatically generated and faxed to your dealership’s fax number as listed in GDIS the same day as your order is entered at HDMC. This acknowledgement will provide you with the order status and order number. To retrieve order information based on the Harley-Davidson order number, go to P&A Order Inquiry on h-dnet.com under the Parts and Accessories link, select H-D Order Number, enter the order number and click “Submit”. At the bottom of the page, click on “Track Part” to view tracking information for the order.
September 29, 2009

Dear Harley-Davidson Motorcycle Owner:

Our records indicate you are the owner of a 2010 XL or XR model motorcycle. Harley-Davidson has recently discovered that the crimp on certain terminals on the connector of the engine temp sensor on some 2010 XL or XR model motorcycles, may cause an intermittent or a total loss of connection causing the check engine light to illuminate.

In the interest of customer satisfaction, Harley-Davidson is offering a no cost replacement of the engine temperature sensor (Product Program 0909) to the owners of 2010 XL and XR model motorcycles built June 26, 2009 through July 9, 2009.

While this is not a safety issue, we urge you to contact your authorized Harley-Davidson dealer to schedule an appointment to have the product improvement service performed. The service will be performed at no cost to you if performed within two years from date of the program announcement. The service will require less than one hour to perform, however, due to scheduling, your dealer may request to have your motorcycle for a longer period of time. Parts availability at your dealership will begin the week of September 28, 2009.

This no cost offer expires two years from the date of the program announcement (September 24, 2011).

To verify that the service has been completed, your dealer will ask you to sign an acknowledgement when you pick up your motorcycle.

We thank you for your cooperation. We regret any inconvenience this may cause, but we have taken this action in the interest of your continued satisfaction with our product.

Sincerely,

Harley-Davidson Motor Company