Purpose for Service Bulletin

Harley-Davidson’s testing indicates that if brake fluid is not flushed for a prolonged period of time beyond the 2-year maintenance schedule specified in the owner’s manual and service manual, a braking issue may develop on certain ABS (Anti-lock braking system)-equipped model year 2008 – 2011 Touring, CVO Touring, Touring Police and VRSC (V-Rod) motorcycles built in the US from 05/26/2006 through 07/11/2011 and in Brazil from 02/18/2007 through 12/13/2011. Specifically, over an extended period of time, the DOT 4 brake fluid, which is hygroscopic (i.e., it will absorb water from the atmosphere), may begin to gel, which can lead to the formation of deposits on the brake components. If these deposits happen to form on the apply valve in the ABS HCU (Hydraulic control unit), the valve may stick. If this condition remains undetected, it may lead to a loss of brake function on the affected wheel without notice, increasing the risk of a crash.

While this condition is related to maintenance, following extensive discussions with NHTSA (National Highway Traffic Safety Administration), Harley-Davidson has agreed to voluntarily conduct a safety recall (Campaign 0171) of the subject motorcycles to address it.

The remedy is to first confirm that the motorcycle is covered by this recall. If covered, the dealer will flush the entire brake system with new Harley-Davidson Platinum Label DOT 4 Brake Fluid and perform an ABS bleed procedure using DT (Digital technician) per this service bulletin. A recall kit is not necessary to perform the service repair. The only requirement is new Harley-Davidson Platinum Label DOT 4 brake fluid. Harley-Davidson expects to have the new fluid ready for dealers to order by the middle of March.

In the interest of the safety of our mutual customers and as required by federal law, dealers may sell but NOT DELIVER any motorcycles until the remedy is completed per this service bulletin. Refer to:

H-Dnet > My Tool Box > Warranty Campaign Center > Safety Campaign Open VIN List, under “Campaign Number” select “0171” to view VIN (Vehicle identification number) list.

In accordance with federal regulations administered by NHTSA and other appropriate market specific government agencies, Harley-Davidson Motor Company, Inc. or authorized Harley-Davidson dealers will provide notice to all owners of record of affected products with direction to arrange for the recall service.

Program Overview

- Using Harley-Davidson Platinum Label DOT 4 brake fluid.
- One-time brake fluid flush on affected motorcycles.
- Uses of BASIC VACUUM BRAKE BLEEDER (PART NUMBER: BB200A) or equivalent tool is required.
- Must use DIGITAL TECHNICIAN II (PART NUMBER: HD-48650) to bleed the brake system correctly.

Motorcycles Affected

Refer to Table 1.

<table>
<thead>
<tr>
<th>Year</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008 - 2011</td>
<td>Touring</td>
</tr>
<tr>
<td></td>
<td>Touring Police</td>
</tr>
<tr>
<td></td>
<td>CVO Touring</td>
</tr>
<tr>
<td></td>
<td>VRSC (V-Rod)</td>
</tr>
</tbody>
</table>

Markets Affected

All markets are affected.

Part Numbers

Refer to Table 2.

<table>
<thead>
<tr>
<th>Current Part No.</th>
<th>Item Description</th>
<th>New Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41800219</td>
<td>DOT 4 Brake Fluid</td>
<td>41800770</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U.S., Mexico, S.A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41800771</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Canada</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41800772</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asia, PAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41800773</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EMEA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41800774</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Russia</td>
</tr>
</tbody>
</table>

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.
Required Dealer Action

⚠️ WARNING
Use only DOT 4 hydraulic brake fluid in the brake master cylinder. Use of other types of fluid can cause brake system damage and adversely affect braking, which could result in death or serious injury. (00597c)

⚠️ CAUTION
Direct contact of DOT 4 brake fluid with eyes can cause irritation. Avoid eye contact. In case of eye contact flush with large amounts of water and get medical attention. Swallowing large amounts of DOT 4 brake fluid can cause digestive discomfort. If swallowed, obtain medical attention. Use in well ventilated area. KEEP OUT OF REACH OF CHILDREN. (00240b)

NOTICE
DOT 4 brake fluid will damage painted and body panel surfaces it comes in contact with. Always use caution and protect surfaces from spills whenever brake work is performed. Failure to comply can result in cosmetic damage. (00239c)

NOTICE
Avoid leakage. Be sure gaskets, banjo bolt(s) and brake line are clean and undamaged before assembly. (00323a)

NOTE
Follow the specifications and torques that are in the service manual of the year and model vehicle that the service is being preformed on.

1. Remove bleeder screw cap. Install vacuum brake bleeder to bleeder screw.
   Special Tool: BASIC VACUUM BRAKE BLEEDER (BB200A)

   NOTE
   Wrap a clean shop towel around the outside of the master cylinder reservoir to protect paint from brake fluid spills.
   • Clean master cylinder reservoir cover before removal.

2. Position vehicle or handlebar so master cylinder reservoir is level.

3. Remove cover from master cylinder reservoir.

   NOTE
   Pay careful attention to fluid level in the master cylinder reservoir. Add fluid before it empties to avoid drawing air into the brake lines.

4. Add brake fluid as necessary. Verify proper operation of the master cylinder relief port by actuating the brake pedal or lever. A slight bulge of fluid will break the fluid surface in the reservoir if internal components are working properly.

   NOTE
   A bulge may not be seen on models having remote reservoirs.

5. Operate vacuum bleeder while maintaining fluid level in master cylinder reservoir.
   a. Following the sequence, open bleeder screw about 3/4 turn. Refer to Table 3.
   b. Continue until specified volume has been replaced. Refer to Table 3.
   c. Tighten bleeder screw to specification. Install bleeder screw cap.

6. Repeat with each caliper following the sequence in service manual until all brake lines have been serviced.

7. Fill reservoir to specified level.


9. Use DT and perform "ABS Service" procedure.
   Special Tool: DIGITAL TECHNICIAN II (HD-48650)

10. Apply brakes to check proper lamp operation.

⚠️ WARNING
After servicing brakes and before moving motorcycle, pump brakes to build brake system pressure. Insufficient pressure can adversely affect brake performance, which could result in death or serious injury. (00279a)

⚠️ WARNING
After repairing the brake system, test brakes at low speed. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury. (00289a)

11. Test ride motorcycle. Perform the bleeding procedure if brakes feel spongy.

Table 3. Bleeding Sequence

<table>
<thead>
<tr>
<th>SYSTEM TYPE</th>
<th>CIRCUIT</th>
<th>VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>Front left</td>
<td>118.3 ml (4 fl oz) each</td>
</tr>
<tr>
<td></td>
<td>Front right</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td></td>
</tr>
</tbody>
</table>

Owner’s Manual Flush Brake Fluid Insert

NOTE
Login into SIP (Service information portal) through Google Chrome to view insert.

1. Click on Owner’s Manual Insert and print.
   a. Click on INSERT: M1470: SAFETY RECALL 0171...
   b. Click on printer icon in up right corner of insert screen.
   c. Print.
2. Insert the Flush Brake Fluid page into the owner's manuals applicable to this bulletin that are on site.

3. If customers' owner's manual is not present with the motorcycle, do the following:
   a. Give the copy of the Flush Brake Fluid page to the customer.
   b. Inform the customer to read and insert the page into their owner's manual.

⚠️ WARNING

DOT 4 brake fluid absorbs moisture from the atmosphere over time, changing the chemical and physical properties of the fluid. These changes can adversely affect braking, which could cause loss of control, resulting in death or serious injury. Ensure proper braking performance by checking brake fluid for moisture content at every service interval or annually (whichever comes first). Flush fluid when moisture content is 3% or greater or every two years (whichever comes first). (06304a)

4. Specify to the customer the importance of flushing the brake fluid when moisture content is 3% or greater, or every two years (whichever comes first).

Credit Procedure

Credit Procedure: Talon/H-Dnet.com Warranty Claim System Users

Submit a claim for each motorcycle serviced in this bulletin for which VIN involvement was verified on h-dnet.com.

Submit a claim per table. Refer to Table 4.

Table 4. Talon/H-Dnet.com Warranty Claim System Users

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claim Type</td>
<td>SRC</td>
</tr>
<tr>
<td>Problem Part Number</td>
<td>41800219</td>
</tr>
<tr>
<td>Quantity</td>
<td>Leave Blank</td>
</tr>
<tr>
<td>Primary Labor Code(1)</td>
<td>2726</td>
</tr>
<tr>
<td>Labor Hours:</td>
<td></td>
</tr>
<tr>
<td>Touring, CVO Touring, Touring Police</td>
<td>1.2 h</td>
</tr>
<tr>
<td>VRSC (V-Rod)</td>
<td>1.1 h</td>
</tr>
<tr>
<td>Customer Concern Code(1)</td>
<td>0171</td>
</tr>
<tr>
<td>Condition Code</td>
<td>9981</td>
</tr>
<tr>
<td>Replacement Part No.</td>
<td>USA, Mexico, South America 41800770</td>
</tr>
<tr>
<td>Quantity</td>
<td>1</td>
</tr>
</tbody>
</table>

(1) Download may be required.

Credit Procedure: SAP System Users

Upon submission of the properly completed claim, dealership is credited for 1.1 h or 1.2 h of labor time and brake fluid for performing the procedure. Plus appropriate market administrative time.

Submit campaign events on their own warranty claim. Do not mix items with other warranty events.
Flush Brake Fluid

WARNING

DOT 4 brake fluid absorbs moisture from the atmosphere over time, changing the chemical and physical properties of the fluid. These changes can adversely affect braking, which could cause loss of control, resulting in death or serious injury. Ensure proper braking performance by checking brake fluid for moisture content at every service interval or annually (whichever comes first). Flush fluid when moisture content is 3% or greater or every two years (whichever comes first). (06304a)

To ensure the brake system is performing to design, check the moisture content of the brake fluid at every service interval or at least annually using a DOT 4 brake fluid moisture tester (part number HD-48497-A or equivalent) following the instructions included with the tool. Flush DOT 4 fluid every 2 years or sooner if the brake system fluid test shows moisture content is 3% or greater.

Harley-Davidson recommends using Harley-Davidson Platinum Label DOT 4 Brake Fluid because of its superior moisture and corrosion inhibiting properties.