

Table 3. Part Numbers

Current Part No.	Item Description	New Part No.
41800219	DOT 4 Brake Fluid	41800770 U.S., Mexico, South America
		41800771 Canada
		41800772 Asia Pacific
		41800773 EMEA
		41800774 Russia

Required Dealer Action

Dealer Action Overview

- Perform brake fluid flush.
- Retrieve and print owners manual flush brake fluid insert.

Brake Fluid Flush

⚠ 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 torque and other specifications that are in the service manual of the year and model vehicle that the service is being performed 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.

⚠ WARNING

Be sure the master cylinder relief port is not plugged. A plugged relief port can cause brake drag or lockup and loss of vehicle control, which could result in death or serious injury. (00317a)

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.

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

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.

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 4.

- b. Continue until specified volume has been replaced. Refer to Table 4.

- 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.

8. Clean gasket and sealing surfaces of debris. Install master cylinder reservoir covers.

9. Use DT II 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 4. Bleeding Sequence

SYSTEM TYPE	CIRCUIT	VOLUME
ABS	Front left	118.3 ml (4 fl oz) each
	Front right	
	Rear	

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 5.

Table 5. Talon/H-Dnet.com Warranty Claim System Users

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

(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.

Table 6. SAP System Users

ITEM	DATA
Claim Type	Recall Claim
FIX ID-Found in Recall Number	C
Problem Part Number	41800219
Customer Concern Code	0171
Condition Code	9981

Credit Procedure: All Other System Users

- Claim Date
- Campaign Number (0171)
 - 1.2 h Touring, CVO Touring, Touring Police
 - 1.1 h VRSC (V-Rod)
- FIX ID - (C)
- Full Seventeen Character VIN

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

FAQ (Frequently Asked Questions)

Q: What is the difference between the regular DOT 4 and the new Platinum DOT 4?

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

Q: Does the new Platinum DOT 4 mean customers can leave the fluid in the bike for longer than the recommended 2 years?

No. It is still recommended to follow the prescribed maintenance interval of 2 years and inspection points at each major service as outlined in the owners and service manuals.

Q: Should the dealers dispose of the older DOT 4 currently in stock?

No. Per service bulletin M1471, the current DOT 4 BRAKE FLUID (99953-99A) is approved to use on all DOT 4 systems except for motorcycles involved in Recall 0171.

Q: What if a customer has an affected motorcycle but does not receive a letter?

Harley-Davidson is asking customers who have sold their motorcycle and have an address for the current owner to forward this notice to the new owner. Alternatively, they may contact Harley-Davidson at 1-414-343-4056 and provide us the contact information for the purchaser so that Harley-Davidson may notify the new owner of this recall. Also, Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Q: If a VIN is blocked, are they still eligible to have this recall performed?

Yes. If the recall work can be safely performed, then it should be done.

Q: Are there DTII Best Practices for performing the ABS Brake Fluid Flush?

- Motorcycle must be on a GLOBAL 5 AMP BATTERY CHARGER (PART NUMBER: 66000041) (or equivalent), and battery voltage must be 12.7 V or greater.
- Check the ABS ECU (Electronic control unit) [166] for corrosion or poor connection.

NOTE

Avoid using the wireless connection when bleeding ABS.

- Using the USB CABLE (PART NUMBER: HD-48650-9), connect DIGITAL TECHNICIAN II (PART NUMBER: HD-48650) to the TECHLINK II (PART NUMBER: HD-48650-1).

- Connect the AC (Alternating current) adaptor to the TechLink.

NOTE

Occasionally, reprogramming the TechLink II using DT II can resolve communication issues.

- Removing the main fuse for 1 min can also help with communication issues.
- Apply front and rear brakes. Verify brake light illuminates when applied.

NOTE

ABS service will not function if the light switch is not functioning.

- Verify front and rear brakes toggle on/off by checking the Data items in DT II.
- Manually bleed the brake system to flush old brake fluid out before using DT II to perform ABS service.
- The HCU can overheat if the ABS service is run back-to-back. To prevent the overheating, allow 30 s between services.
- Verify that any aftermarket electrical accessories (i.e. turners) that can interfere with DT II are temporary disabled. After flush is completed, all aftermarket electrical accessories must be enabled.

Q: Should there be a color difference to the Harley-Davidson Platinum Label DOT 4 Brake Fluid? Should the new fluid be yellow or yellow/green?

Refer to Figure 1. The difference in Platinum Label DOT 4 Brake Fluid chemistry will result in a noticeable color difference between the two fluids. The current DOT 4 BRAKE FLUID (99953-99A) is clear in color. The **new** fluid has a yellow tint to the fluid. Some may describe it as a yellow/green tint as well. These fluids are completely compatible and topping off one with the other, or slight mixing during the flushing process is not a problem.



Figure 1. Dot 4 Brake Fluids

Q: During the recall procedure, it was determined that the ABS module needed to be replaced. Why is that?

The work performed during the recall repair procedure puts the ABS module through a rigorous internal actuation. If the module is found to have a stuck valve during the procedure, it is highly likely that a stuck valve was imminent under normal operating conditions. This means that the valve could have stuck while in use instead of on the bench. The most likely cause of a stuck valve is lack of required maintenance of the DOT 4 brake fluid (Brake fluid flush every 2 years).

Q: How can the ABS module be tested outside of the recall procedure?

On 2008 - 2011 ABS model vehicles, the ABS module can be tested using DT II by performing the following steps:

1. Connect the GLOBAL 5 AMP BATTERY CHARGER (PART NUMBER: 66000041) (or equivalent) to the battery.
2. Using USB CABLE (PART NUMBER: HD-48650-9) connect DIGITAL TECHNICIAN II (PART NUMBER: HD-48650) to the TECHLINK II (PART NUMBER: HD-48650-1). Connect to vehicle.
3. Enter vehicle information on DT II.
4. Click on the following:
 - Green check mark > Toolbox > Active Diagnostics
5. Under the Active Diagnostics tab, deselect all the green buttons expect for ABS.
6. In the "Select A Test" menu click on and highlight "Front Apply Solenoid Cmd [ABS]".
7. In the section right of the "Select A Test" menu, press the **Start** button.
8. Activate the front solenoid by pushing the **On** button.
9. Apply and the front brake lever.
 - a. Applying the front brake lever, the resistance in the lever should increase.
10. While holding the front brake lever, push the **Off** button on DT II.
 - a. Holding the front brake lever, the resistance in the lever should decrease.
11. Push the **Cancel** button to stop the test on the front apply solenoid.
12. Start the rear apply solenoid test.
13. In the "Select A Test" menu click on and highlight "Rear Apply Solenoid Cmd [ABS]".
14. In the section right of the "Select A Test" menu, press the **Start** button.
15. Activate the rear solenoid by pushing the **On** button.

16. Apply the rear brake pedal.
 - a. Applying the rear brake pedal, the resistance in the pedal should increase.
17. While holding the rear brake pedal, push the **Off** button on DT II.
 - a. Holding the rear brake pedal, the resistance in the pedal should decrease.
18. Push the **Cancel** button to stop test.

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 DOT4 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.
