



Service Bulletin

American Honda Motor Co., Inc.

SAFETY RECALL

2001-2012 GL1800/A Secondary Master Cylinder Inspection/Replacement

Honda Motor Co., Ltd. is conducting a Safety Recall to inspect, and if necessary, replace the combined braking system's secondary master cylinder on affected GL1800/A motorcycles.

The secondary master cylinder on some affected motorcycles may have insufficient internal freeplay between the pressure cup and the compensating port hole. If the freeplay is insufficient, the compensating port can become blocked by the pressure cup, which can cause the rear brake to drag after the rider has released the brakes. A dragging rear brake increases the risk of a crash and can generate enough heat to cause the rear brake to catch fire.

This Service Bulletin details how to inspect the secondary master cylinder and, if necessary, replace it with one that has sufficient free-play.

The Inspection Tool used in the INSPECTION PROCEDURE section of this bulletin was automatically shipped to your Service Department on December 1, 2011.

CUSTOMER NOTIFICATION

American Honda is sending a letter to owners of all potentially affected 2001-2012 GL1800 motorcycles informing them that their motorcycle is being recalled for a safety-related defect. The customer will be advised to have a

Honda motorcycle dealer inspect and, if necessary, replace the secondary master cylinder. They will be instructed to call their dealer to make an appointment to have the Recall performed.

AFFECTED UNITS

2001-2010 GL1800/A

All units and types within the above model year range.

2012 GL1800/A: All types, within the following VIN ranges

Type	VIN Range
IVA	JH2SC68G*CK000001 thru JH2SC68G*CK002608
VA	JH2SC68H*CK000001 thru JH2SC68H*CK001746
VIIA	JH2SC68L*CK000001 thru JH2SC68L*CK001294
VIIIA	JH2SC68M*CK000001 thru JH2SC68M*CK000164

(*) denotes check digit

DEALER INVENTORY

Do not sell any un-repaired units.

According to Federal Law, any affected new or used unit in your inventory must be inspected and, if necessary, repaired with the updated secondary master cylinder before delivery to the

customer. To identify affected units in your inventory, refer to *e-Responsibility Report* and *Unit Information* on **IN**. Then proceed with the INSPECTION PROCEDURE section of this Service Bulletin.

REPAIR VERIFICATION

Before you begin the inspection/repair procedures, check if the recall has been performed on the unit.

See the IDENTIFICATION section of this Service Bulletin for specific details.

- If there is a punch mark on the frame, *under the right engine side cover*, the unit has been inspected/repared:
 - No further action is necessary.
- If there is no punch mark on the frame, under the right engine side cover:
 - You must proceed with the INSPECTION PROCEDURE section of this Service Bulletin.

If you have any questions about repair verification, please contact TechLine at: (800) 421-1900, option 9.

INSPECTION PROCEDURE

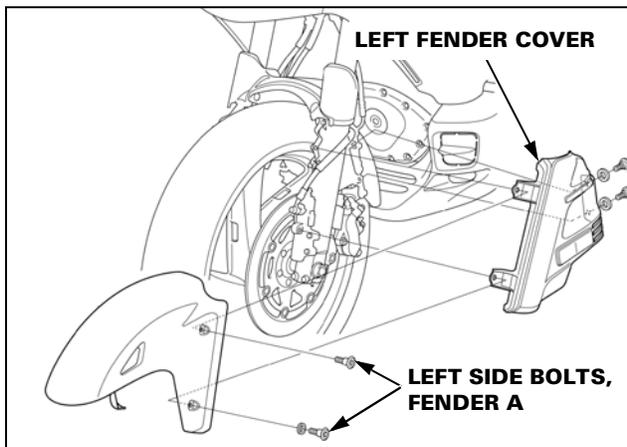
IMPORTANT NOTES:

The inspection procedure includes the installation of an inspection tool (jig) that will put the secondary master cylinder into a "worst case" installation angle and ensure positive identification of a defective secondary master cylinder.

- If a GL1800/A has a modified brake system, or is a trike conversion, you must call TechLine before proceeding.
- The inspection procedure for the airbag type (VIII A) is different than the procedure for non-airbag types. Steps 3A, 3B, and Step 12 apply only to the airbag type. All other steps apply to both airbag and non-airbag types.
- Before proceeding, click the link below for a video demonstration of the inspection procedure.

[**GL1800 Secondary Master Cylinder Inspection**](#)

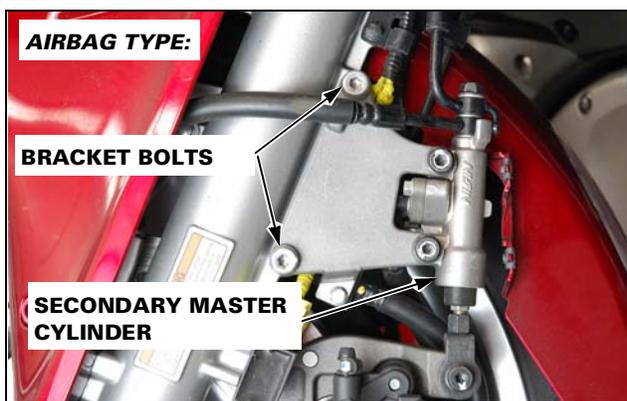
1. Remove the mounting bolts from the left side of front fender A and then remove the left fender cover as shown.



2. With the motorcycle on its centerstand, rotate the rear wheel with your hand and note the amount of drag on the rear wheel. This will be a reference point for Step 10.

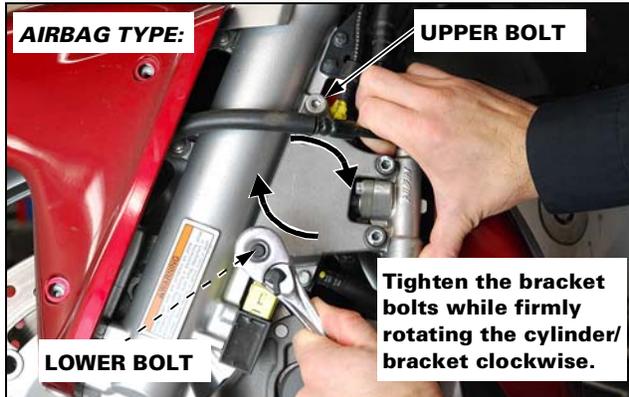


- 3A. *Airbag type only*, for all other types go to Step 4: Loosen both bracket bolts as shown.



3B. *Airbag type only*; for all other types go to Step 4: Grasp the secondary master cylinder with one hand as shown and firmly rotate the cylinder and bracket in a *clockwise* direction.

While firmly holding the secondary master cylinder and bracket in this position, tighten both mounting bracket bolts.



4. Remove the upper secondary master cylinder mounting bolt only.



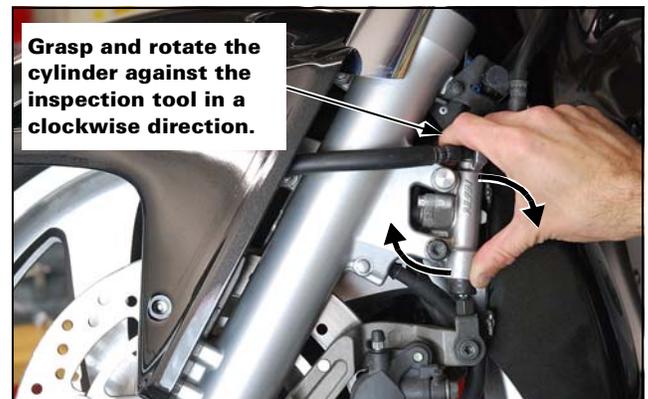
5. Loosen the lower secondary master cylinder mounting bolt by 90 degrees only.



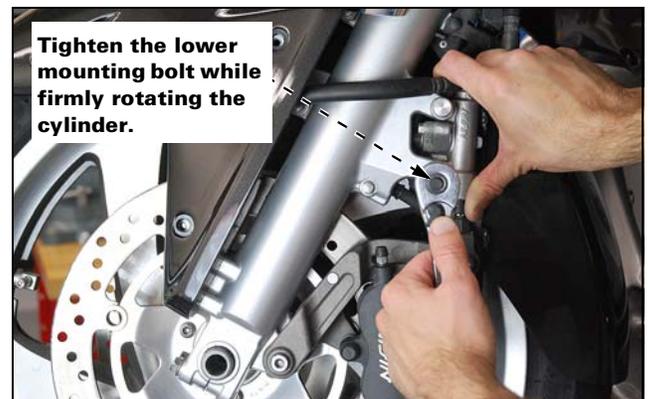
6. Insert the inspection tool into the upper secondary master cylinder bolt hole until it is fully seated, as shown.



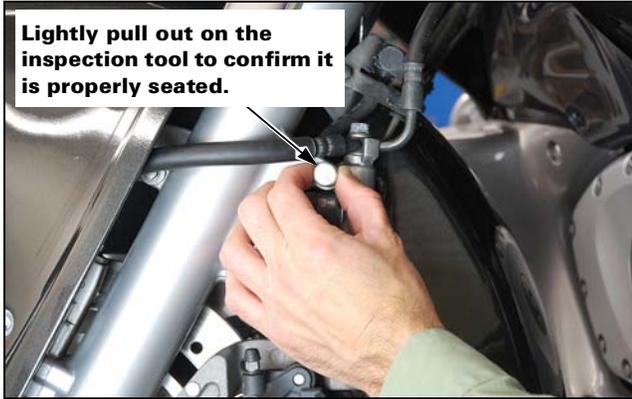
7. Grasp the secondary master cylinder with one hand as shown and firmly rotate the cylinder in a *clockwise* direction.



8. While firmly holding the secondary master cylinder in this position, tighten the lower cylinder mounting bolt as shown.



9. Grasp the inspection tool and check the tension by pulling lightly on the tool as shown. The tool should not slip out. If the inspection tool slips out, loosen the lower bolt, repeat Step 8 and re-check the tension.



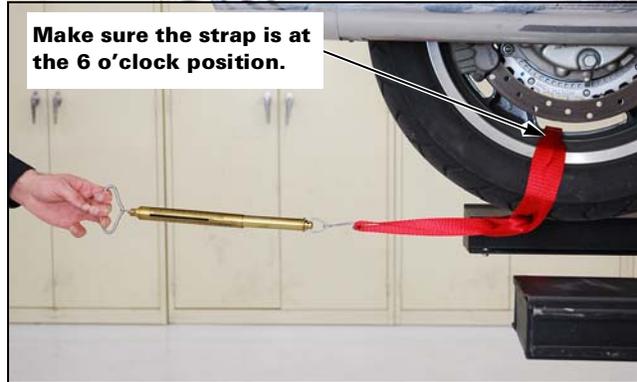
10. Firmly depress and slowly release the brake pedal five times, then release the brake pedal and immediately try to rotate the rear wheel as shown.



- If the rear wheel rotates freely, the secondary master cylinder is OK. Proceed to Step 11.
- If the rear wheel is locked (does not rotate), the secondary master cylinder must be replaced. Proceed to the REPAIR PROCEDURE section of this bulletin.
- If the wheel is not locked, but feels like it has more drag than noted in Step 2, check the drag as shown with a spring scale (T/N: SAMIN12MRP). The rear wheel drag should be no more than:
50 N (5.1 kgf, 11.2 lbf)

If the wheel drag is greater than specified, the secondary master cylinder must be replaced. Proceed to the REPAIR PROCEDURE section of this bulletin.

If the wheel drag is less than specified, the secondary master cylinder is OK; proceed to Step 11.



11. If the secondary master cylinder passed inspection, loosen the lower mounting bolt and remove the inspection tool from the secondary master cylinder. Reinstall the upper bolt.

Grasp the secondary master cylinder with one hand as shown and firmly rotate the cylinder in a *counter-clockwise* direction (opposite of before) and tighten the bolts to the specified torque.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)

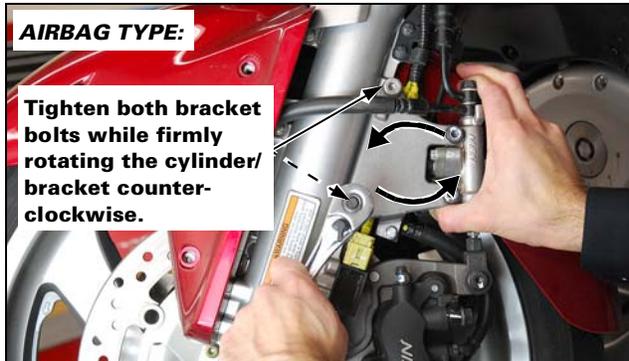


For all non-airbag types, proceed to Step 13.

12. *Airbag type only:* If the secondary master cylinder passed the inspection, loosen both secondary master cylinder bracket bolts.

Grasp the secondary master cylinder with one hand as shown and firmly rotate the cylinder/bracket in a *counter-clockwise* direction and tighten the bolts to the specified torque.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)



13. Reinstall the left fender cover and then the front fender A left side bolts. Proceed to the IDENTIFICATION section of this bulletin.

REPAIR PROCEDURE

Proceed with this section only after determining the secondary master cylinder requires replacement as shown in the INSPECTION PROCEDURE section of this bulletin.

Call or e-mail TechLine to order the updated secondary master cylinder as directed in the PARTS INFORMATION section of this bulletin.

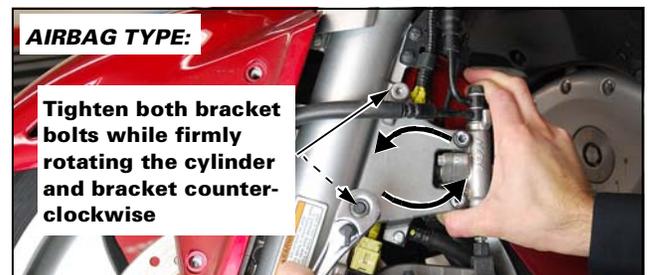
IMPORTANT NOTES:

- Replacement of the secondary master cylinder requires the removal of the front brake calipers and front wheel.
- *Do not use* new brake caliper mounting bolts for this repair procedure.
- Installation of the updated secondary master cylinder requires special handling not indicated in the Service Manual; review Step 2 (below) thoroughly before proceeding with the replacement.

1. Remove the secondary master cylinder from the left fork leg using the procedures in the appropriate Service Manual.

Cut the rubber boot off this master cylinder to identify it as defective.

2. Using the procedures in the appropriate Service Manual, install the updated secondary master cylinder set as identified in the PARTS INFORMATION section of this bulletin. To ensure the optimum operating angle for the secondary master cylinder, grasp it (and bracket) with one hand as shown and firmly rotate the cylinder in a *counter-clockwise* direction when tightening the bolts to the specified torque during installation.



3. Using the procedures in the appropriate Service Manual, reinstall the front wheel and brake calipers.

4. Using the procedures for *Pedal Brake Line Fluid Filling and Air Bleeding* in the appropriate Service Manual, fill and bleed the *pedal brake line*.

To ensure that all the fluid in the pedal brake line is fresh, pump a volume equivalent to at least two rear brake reservoirs of fresh brake fluid through the system.

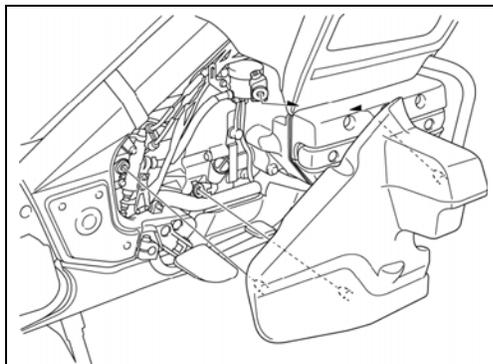
5. Using the procedures in the appropriate Service Manual, reinstall the remaining removed parts.

Proceed to the IDENTIFICATION section of this bulletin.

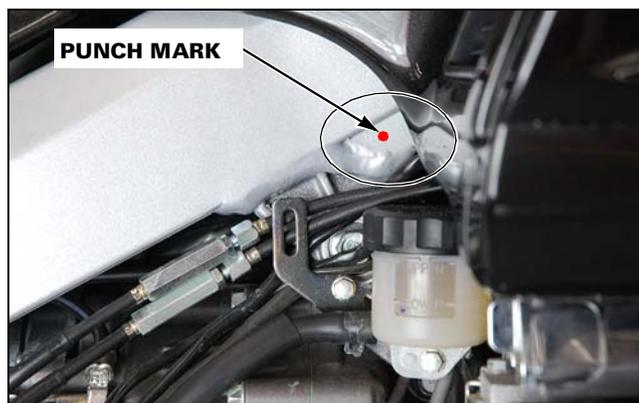
IDENTIFICATION

After you have completed the INSPECTION/REPAIR PROCEDURE:

1. Remove the right engine side cover.



2. Apply a punch mark to the right frame spar, just above the rear master cylinder reservoir. See the following photo for placement.



3. Reinstall the right engine side cover.

WARRANTY INFORMATION

This Safety Recall has no expiration date. Normal claim submission requirements apply.

After inspecting/repairing the unit, submit one warranty claim per unit using the following information:

WARRANTY CLAIM TEMPLATES:

Inspection Only

Template: S03A (reads, S-zero-3-A)
Flat Rate Time: 0.4 hrs

Inspection and Repair

Template: S03B (reads, S-zero-3-B)
Flat Rate Time: 1.2 hrs

PARTS INFORMATION

REQUIRED PARTS AND TOOL

Secondary Master Cylinder Set (1)

(Contact TechLine to order, see Controlled Parts below.)

P/N: 06453-MCA-305

Contents:

Cylinder assy., second master (1)
Washer, oil bolt (5)

Inspection tool, secondary m/cyl. pin (1)

(Automatically shipped)

P/N: 45601-MCA-X01

CONTROLLED PARTS

Initially, the Secondary Master Cylinder Set will only be available from TechLine. If you have confirmed the secondary master cylinder requires replacement, send an e-mail to or call TechLine:

mcdealersup@ahm.honda.com

Subject line: *GL1800 #20*

Information required in the text body:

- VIN
- Mileage
- Dealer Number
- Technician's Name

TechLine will either call you within 24 hours to request additional information or respond by e-mail confirming that a Secondary Master Cylinder Set has been shipped.

To order the controlled part by telephone, or for additional information, call TechLine at (800) 421-1900, option 9.