

# BOSCH MASTER CYLINDER SAFETY RECALL

Bulletin No: 13082

Date: June 2013

**SUBJECT: Recall of Master Cylinders (used with Hydro-Max® Booster)**

**MODELS: 2003-2009 Chevrolet Kodiak and GMC TopKick C4/C5 Series  
Serviced with a Suspect Master Cylinder**

Robert Bosch LLC is conducting a safety recall. For the convenience of our customers, General Motors has agreed to assist in administering this recall through its Chevrolet and GMC dealers.

Parts involved in this recall were service parts only and were not installed in the vehicle when it was built. Vehicles that were identified through a search of our part sales records have been loaded into IVH. GM will contact those customers by letter.

Parts Managers are being provided a recall notification flyer and are being asked to post the flyer in areas frequented by customers. If a GM customer believes they may have purchased one of the suspect master cylinders, dealers are to perform the inspection and, repair if necessary. The warranty transaction should be routed to your GM representative for approval using the appropriate labor code contained in this bulletin.

## **DEFECT INVOLVED**

Robert Bosch LLC has decided that a defect, which relates to motor vehicle safety, exists in **certain** master cylinders (used with Hydro-Max® booster) manufactured between July 1, 2011, and April 12, 2012. These master cylinders incorporate a reservoir switch pocket with additional clearance to more efficiently install and latch the fluid level indicator (FLI) switch. The added clearance created a condition in which the FLI switch has the potential to move outward, but remain within the reservoir switch pocket. If the FLI switch moves outward and the float magnet is on the lower allowed level, the FLI may not be close enough to the float magnet to activate in the event of low brake fluid. If the low brake fluid level is caused by an external leak, resulting in the escape of fluid from the brake system, it can result in increased pedal travel. If this condition goes unheeded, it can result in a reduction of hydraulic pressure to the disc brake calipers or wheel cylinders and lessen the braking force available. A reduction in braking force can cause an increase in stopping distance and a vehicle crash may occur.

## **SERVICE ACTION REQUIRED**

GM customers may bring their vehicle to a Chevrolet or GMC dealer for an inspection of the manufacturing date of the master cylinder. If the manufacturing date is between July 1, 2011, and April 12, 2012, the FLI switch will be replaced.

### VEHICLES INVOLVED

Known involved vehicles are identified by Vehicle Identification Number on the Investigate Vehicle History screen in GM Global Warranty Management system.

For dealers with known involved vehicles, a listing with involved vehicles containing the complete vehicle identification number, customer name, and address information has been prepared and will be provided to dealers through the GM GlobalConnect Recall Reports. Dealers will not have a report available if they have no known involved vehicles currently assigned.

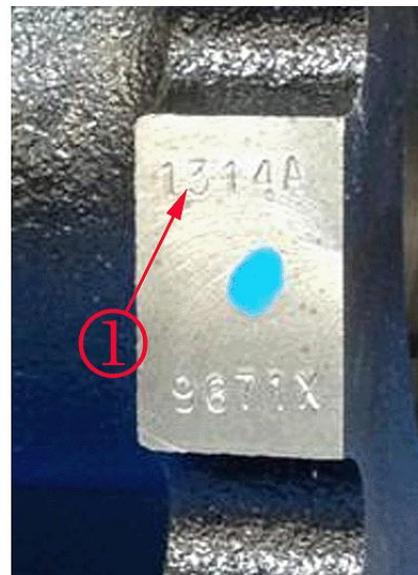
The listing may contain customer names and addresses obtained from Motor Vehicle Registration Records. The use of such motor vehicle registration data for any purpose other than follow-up necessary to complete this recall is a violation of law in several states/provinces/countries. Accordingly, you are urged to limit the use of this report to the follow-up necessary to complete this recall.

### PART INFORMATION

Parts required to complete this recall are to be obtained from General Motors Customer Care and Aftersales (GMCC&A). Please refer to your "involved vehicles listing" before ordering parts. Normal orders should be placed on a DRO = Daily Replenishment Order. In an emergency situation, parts should be ordered on a CSO = Customer Special Order.

Part Number	Description	Quantity/Vehicle
19301984	SWITCH, BRK M/CYL (brake fluid level switch)	1 (If Req'd)

### SERVICE PROCEDURE

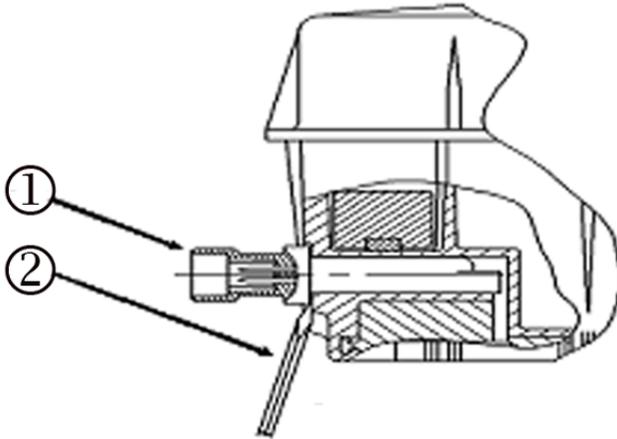


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1. Locate the master cylinder manufacturing date code (1). The manufacturing date code (1) is marked on the upper left side of the master cylinder mounting flange. Refer to the photograph.

**Note:** For purposes of identification, the letter that follows the four numbers is ignored.

- If the manufacturing date code (1) is 1182 through 2103, replace the brake fluid level switch. Proceed to the next step.
- If the manufacturing date code (1) is less than 1182 or greater than 2103, no further action is required.



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Sectioned view of reservoir. (1) Fluid Level Indicator Switch (2) Flat Blade Screwdriver

2. Remove the brake fluid level switch from the master cylinder reservoir. Using a flat #2 screwdriver, position the screwdriver tip between the switch face and the reservoir body as shown. Rotate the screwdriver blade tip until the switch breaks free; remove the switch.
3. Install the new brown color brake fluid level switch into the master cylinder reservoir until the tabs click.
4. Install the connector onto the new brake fluid level switch.

### **WARRANTY TRANSACTION INFORMATION**

Submit a transaction using the table below. All transactions should be submitted as a ZFAT transaction type, unless noted otherwise.

**Note:** If an inspection and/or repair is performed on a GM vehicle that is not in IVH, submit the warranty transaction to your GM representative for approval using the appropriate labor code below.

<b>Labor Code</b>	<b>Description</b>	<b>Labor Time</b>
V2818	Inspect Master Cylinder Date Code – No Further Action Req'd	0.2
V2819	Brake Fluid Level Switch Replacement (inc inspection)	0.4

### **CUSTOMER NOTIFICATION**

General Motors will notify customers of this recall on their vehicle (see copy of customer letter included with this bulletin).

**DEALER RECALL RESPONSIBILITY**  
(For US States, Territories, and Possessions)

It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by this notification under a sale or lease until the defect or noncompliance is remedied.

The US National Traffic and Motor Vehicle Safety Act provides that each vehicle that is subject to a recall of this type must be adequately repaired within a reasonable time after the customer has tendered it for repair. A failure to repair within sixty days after tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within a reasonable time, the customer may be entitled to an identical or reasonably equivalent vehicle at no charge or to a refund of the purchase price less a reasonable allowance for depreciation. To avoid having to provide these burdensome remedies, every effort must be made to promptly schedule an appointment with each customer and to repair their vehicle as soon as possible. In the recall notification letters, customers are told how to contact the US National Highway Traffic Safety Administration if the recall is not completed within a reasonable time.

**DEALER RECALL RESPONSIBILITY**  
(All)

Dealers are to service all vehicles subject to this recall at no charge to customers, regardless of mileage, age of vehicle, or ownership, from this time forward.

In summary, whenever a vehicle subject to this recall enters your vehicle inventory, or is in your dealership for service in the future, you must take the steps necessary to be sure the recall correction has been made before selling or releasing the vehicle.



June 2013

Dear General Motors Customer:

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

*Robert Bosch LLC is conducting a safety recall. For your convenience, General Motors has agreed to assist in administering the recall through our Chevrolet and GMC dealers.*

## **IMPORTANT**

- Your vehicle is involved in safety recall 13082.
- Schedule an appointment with your GM dealer.
- This service will be performed for you at **no charge**.

### **Why is your vehicle being recalled?**

Robert Bosch LLC has decided that a defect, which relates to motor vehicle safety, exists in **certain** master cylinders (used with Hydro-Max® booster) manufactured between July 1, 2011, and April 12, 2012. Your 2003-2009 model year Chevrolet Kodiak or GMC TopKick vehicle may have been serviced with one of these master cylinders.

These master cylinders incorporate a reservoir switch pocket with additional clearance to more efficiently install and latch the fluid level indicator (FLI) switch. The added clearance created a condition in which the FLI switch has the potential to move outward, but remain within the reservoir switch pocket. If the FLI switch moves outward and the float magnet is on the lower allowed level, the FLI may not be close enough to the float magnet to activate in the event of low brake fluid. If the low brake fluid level is caused by an external leak, resulting in the escape of fluid from the brake system, it can result in increased pedal travel. If this condition goes unheeded, it can result in a reduction of hydraulic pressure to the disc brake calipers or wheel cylinders and lessen the braking force available. A reduction in braking force can cause an increase in stopping distance and a vehicle crash may occur.

### **What will we do?**

Your GM dealer will inspect the manufacturing date of the master cylinder and, if the date is between July 1, 2011, and April 12, 2012, will replace the FLI switch. This service will be performed for you at **no charge**.

Because of service scheduling requirements, it is likely that your dealer will need your vehicle longer than the actual inspection time of approximately 15 minutes. If the master cylinder requires replacement, an additional 10 minutes will be required.

### **What should you do?**

You should contact your GM dealer to arrange a service appointment as soon as possible.

**Do you have questions?**

If you have questions or concerns that your dealer is unable to resolve, please contact the Chevrolet and GMC Medium Duty Customer Assistance Center at 1-800-862-4389.

If after contacting your dealer and the Customer Assistance Center, you are still not satisfied we have done our best to remedy this condition without charge and within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590, or call the toll-free Vehicle Safety Hotline at 1.888.327.4236 (TTY 1.800.424.9153), or go to <http://www.safercar.gov>. The National Highway Traffic Safety Administration Campaign ID Number for this recall is 13E011000.

Federal regulation requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Jim Moloney  
General Director,  
Customer and Relationship Services

GM Recall #13082