



SUBJECT: <b>BRAKE MASTER CYLINDER REPLACEMENT — SAFETY RECALL CAMPAIGN</b>		No: <b>SR-05-003</b>	
		DATE: <b>June, 2005</b>	
		MODEL: <b>2006 Eclipse</b>	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE



Some affected vehicles may have a defective brake master cylinder. An internal seal may have been installed incorrectly, allowing brake fluid to bypass during braking, resulting in partial reduction in braking function, which could lead to a crash. Dealers are instructed to replace the master cylinder on all affected vehicles, using the master cylinder repair kit listed in the PARTS INFORMATION section of this bulletin.

The master cylinder repair kit contains the master cylinder assembly, O-ring, two attachment nuts, and a "CAUTION" sheet (shown in Attachment A at the end of this bulletin).

## AFFECTED VEHICLES

2006 Eclipse models produced before 6/10/05

### **IMPORTANT**

***Affected new or used inventory vehicles must be repaired before the vehicle is sold. Dealers must check their inventory vehicles' VINs on the Warranty Super Screen to verify whether the vehicle is involved in this recall campaign.***

## CUSTOMER NOTIFICATION

A letter will be sent to all owners of affected vehicles, asking them to bring their vehicle to their selling Mitsubishi Motors dealer to have the brake master cylinder replaced. A copy of the customer notification letter appears later in this bulletin. Dealers are also asked to contact their customers (by phone, e-mail, or fax), asking them to bring their vehicle to the dealership for this repair.

## REQUIRED OPERATIONS

Before starting this campaign procedure, **CHECK ON THE WARRANTY SUPERSCREEN** to verify that the vehicle is an affected VIN for this recall campaign and that this recall campaign procedure has not already been completed.

FILE UNDER:

**Safety Recall Bulletins in the Dealer Service Information Binder**

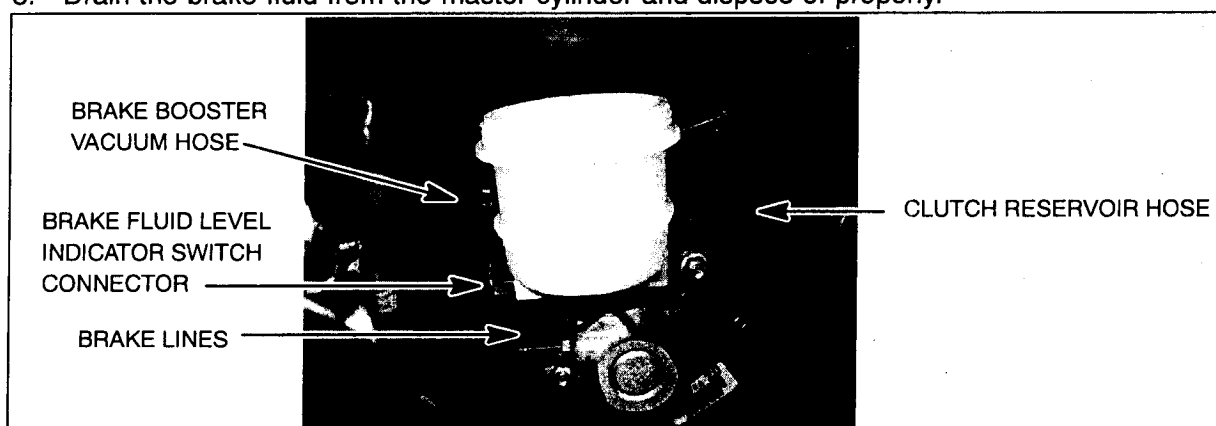
**(2896)**

1. Record the customer's audio system settings, so you can re-set them after the battery is reconnected.
2. Be sure both windows are completely closed. This prevents the power windows from losing their short stroke memory.
3. Remove the strut tower bar (3.8L engine only).
4. Remove the battery.
5. Remove the brake fluid reservoir cap and filter.

**CAUTION**

Be careful during this procedure to prevent spilling any brake fluid on painted surfaces.

6. Drain the brake fluid from the master cylinder and dispose of properly.



7. Disconnect the brake fluid level indicator switch connector.
8. Disconnect the clutch reservoir hose.
9. Disconnect the brake lines, using a line wrench to prevent damaging the attachment nuts.
10. Remove the brake master cylinder:
  - a. Disconnect the brake booster vacuum hose.
  - b. Remove the two 13 mm attachment nuts and discard them.
11. Replace the master cylinder assembly, using the master cylinder repair kit listed in the PARTS INFORMATION section of this bulletin.

**NOTE:** The master cylinder repair kit contains the master cylinder assembly, O-ring, two attachment nuts, and a "CAUTION" sheet (shown in Attachment A at the end of this bulletin). Remove the foam piston protector before installing.

**⚠ CAUTION**

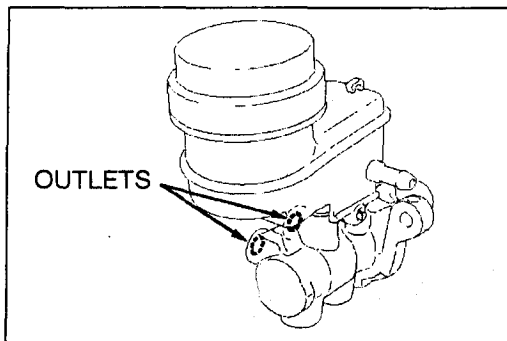
Take care to prevent damaging the master cylinder piston. If the piston becomes dislodged, discard the master cylinder. Do not attempt to reinsert the piston.

Be sure the O-ring provided in the kit is properly installed.

- a. Use the O-ring and attachment nuts provided in the master cylinder assembly kit. Tighten the attachment nuts to  $22 \pm 5$  Nm ( $17 \pm 4$  ft/lb).

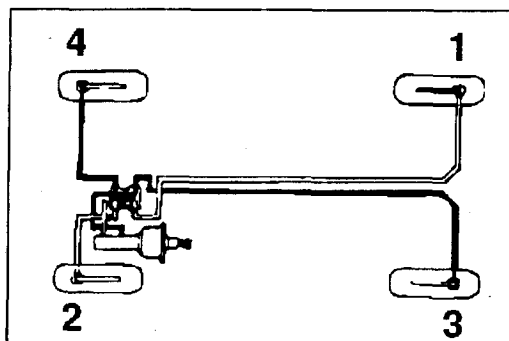
**NOTE:** A small amount of brake fluid residue in the brake booster is normal.

12. Reinstall the brake booster vacuum hose.
13. Connect the clutch reservoir hose.
14. Connect the brake fluid level indicator switch connector.
15. Fill the master cylinder reservoir with brake fluid. Use Mitsubishi Brake Fluid p/n MZ311987.
16. **Thoroughly bleed the master cylinder and brake lines as follows:**



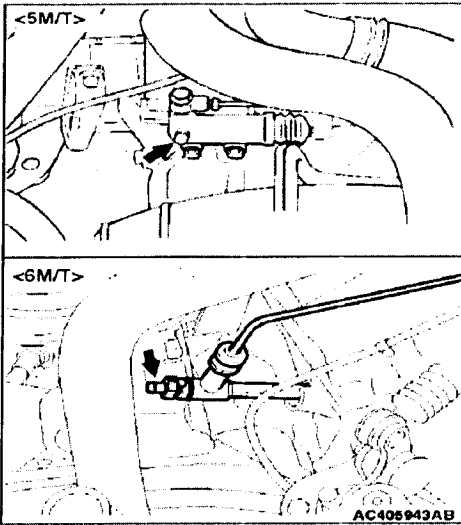
- a. Press and hold the brake pedal.
- b. Have another person cover the master cylinder outlets with their fingers.
- c. Release the brake pedal.
- d. Repeat steps a. through c. at least three times, holding the pedal to the floor the third time. Ensure that all air is removed.

17. Tighten the brake line attachment nuts to  $15 \pm 2$  Nm ( $12 \pm 1$  ft/lbs).
18. Use brake cleaner to remove any brake fluid on the battery tray.
19. Reinstall the battery.
20. Reinstall the strut tower bar (3.8L engine only).



21. Start the engine and bleed the air in the brake lines at each caliper, in the sequence shown.

**22. Thoroughly bleed the clutch as follows (M/T models only):**



- a. Connect a hose with a bottle to the bleeder screw.
- b. Open the bleed nipple.
- c. Depress the clutch pedal slowly. Open the bleeder screw to let air and brake fluid out. Then close the bleeder screw. Release the clutch pedal. Repeat until only brake fluid and no air comes out.
- d. Check that the brake fluid reservoir level stays between the "MAX" and "MIN" marks throughout the clutch bleeding process.

23. Replenish the fluid as necessary. Use Mitsubishi Brake Fluid p/n MZ311987. The master cylinder reservoir should be filled with brake fluid between "MIN" and "MAX" marks.

24. Reinstall the brake fluid reservoir cap and filter.

25. Reset the customer's audio system settings.

26. CANADA VEHICLES ONLY: The outside temperature display defaults to Fahrenheit degrees when power is interrupted, such as battery disconnection. To change the display to Celsius degrees, push in the "H" and "M" buttons at the same time, and hold for 10 seconds.

27. The 6-disc CD player will automatically conduct a self-check after the battery is reconnected and the ignition key is turned to ON. This will cause the CD player to cycle through each of the CD trays and make an unusual noise for about 30 seconds.

Inspect the CD player as described below. If audio unit replacement is necessary, exchange units are available from your normal Mitsubishi Audio Exchange Centers (Yamada, RSSC, or H&R). If audio unit exchange is necessary, normal warranty exchange procedures and requirements apply.

**CD PLAYER INSPECTION PROCEDURE**

- a. Engage the IOD fuse.
- b. Turn the ignition key to the ON position.
- c. The CD changer will initialize for about 15 seconds. If error message "E 03" is displayed on the center display, exchange the audio unit.
- d. If no error is displayed, press the "LOAD EJECT" button. Then press the "6" button. Wait for the "Ready" light to illuminate constantly. The "Ready" light flashes until the 6th slot is in position. Then insert a CD.
- e. Confirm the CD plays with no problem.
- f. To remove the CD, press the "LOAD EJECT" button, then press the "6" button. If error message "E 03" is displayed on the center display, exchange the audio unit.

28. Ensure that the auto down feature on the driver's window, and the short stroke feature on both windows are operational. If necessary, reinitialize the short stroke memory as follows:

**DOOR GLASS "SHORT STROKE" INITIALIZATION PROCEDURE**

- a. Close the door.
- b. Use the power window switch to fully close the window.
- c. Release the power window switch.
- d. Pull up the power window switch again and hold it for a few seconds until a soft "click" is heard.

**29. THROTTLE BODY INITIALIZATION PROCEDURE**

Initialize the throttle body as follows: Turn the ignition switch to ON, then to OFF. Wait for at least 10 seconds before turning the key back to ON.

**PARTS INFORMATION**

A supply of master cylinder kits will be automatically shipped to each dealer, based on sold, in-transit, and in-stock inventory as of 6/22/05. Additional kits can be ordered through the normal parts system, but will be on manual allocation.

Each kit contains a master cylinder assembly, O-ring, two attachment nuts, and a "CAUTION" sheet.

Description	Model	Part Number	Dealer Net
Brake Master Cylinder Kit	2006 Eclipse A/T	4625A027KT	\$ 38.25
Brake Master Cylinder Kit	2006 Eclipse M/T	4625A028KT	\$ 38.25
Mitsubishi Brake Fluid	-	MZ311987	-

**WARRANTY INFORMATION**

**Campaign Operation Number: C0503KXX**

Enter this campaign claim over the MDL, using the Recall claim type option. Sample recall claim screens are shown on the following pages.

**Labor Time (for both A/T and M/T models): 1.3 hrs.**

**Allowable Parts:**

Master Cylinder Kit (automatic transmission models) – p/n 4625A027KT

Master Cylinder Kit (manual transmission models) – p/n 4625A028KT

Mitsubishi Brake Fluid – p/n MZ311987 (up to 2 bottles)

Mitsubishi Motors North America, Inc.

The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website ([www.mitsubishitechinfo.com](http://www.mitsubishitechinfo.com)).

**Header Section 2006 ECLIPSE BRAKE MASTER CYLINDER  
REPLACEMENT REQUIRED ON ALL INVOLVED VEHICLES**

MITSUBISHI DEALER LINK Service Warranty Help

Vehicle Information

Enter in the first 6 characters of the campaign labor operation

**Campaign Information**

Campaign Operation No: **C0503K**

Miles/Km: [ ]

Order No: C12345

VIN: 4A.....

Repair Date In: [ ] Repair Date Out: [ ]

Service Technician: [ ] Emp No: [ ] Service Advisor: [ ] Emp No: [ ]

Spec Value \* [ ] Duplicate Recall \*

Dealer: 99920 Ref No: [ ] VIN: [ ]  
Claim No: [ ] Adj: [ ] Claim Status: Incomplete Model and Year: [ ]

Save & Continue Main Menu

**Parts Section**

MITSUBISHI DEALER LINK Service Warranty Recall Claim Help

Vehicle Information Subject DNS Information

**Add Page - Parts Information**

Delete	Part No	Part Description	Qty	Unit Price	Part Amount	Primary
1.		Master Cylinder Part Numbers:	Qty = 1			<input type="checkbox"/>
2.		Auto Trans: 4625A027KT	Qty = 2			<input type="checkbox"/>
3.		- or -				<input type="checkbox"/>
4.		Manual Trans: 4625A028KT				<input type="checkbox"/>
5.		Brake Fluid as needed up to 2 bottles.				<input type="checkbox"/>
6.		MZ311987				<input type="checkbox"/>
7.						<input type="checkbox"/>

### Labor Section

MITSUBISHI DEALER LINK
Service Warranty Recall Claim
Help

Vehicle Information
Reports
WMS Inquiries

#### Add Page - Labor Information

Note: These entries will automatically be filled in based on the campaign number you entered on the previous screen.

Delete	Sublet	Labor Op	Labor Operation Description	Qty	Hours / Sublet Amt	Total Hrs	Labor Amt
		C0503KXX		1	1.3		
<b>Total Labor Amount</b>							

Update
Finish
PWA
Main Menu
Cancel Changes

Verify C0503KXX comes up as the full campaign labor operation number

Qty of 1

The allowed labor time for replacement of the master cylinder is 1.3 hrs.

You may claim any additional charges that may have been incurred for rental/loaner vehicles and/or towing as applicable in the sublet section on Labor screen of the campaign claim.

Special Sublet Selection					
Select	Labor Operation	Labor Operation Description			Amount
<input type="checkbox"/>	SHO	SPECIAL HANDLING ORDER	SHO Parts Order		
<input type="checkbox"/>	RENTACAR	RENTAL CAR CHARGES	Days	Reason {<Select one>	
			Rental Company	Invoice Number	
<input type="checkbox"/>	95300040	FREIGHT CHARGES	Freight Company	Invoice Number	
<input type="checkbox"/>	95200040	TOWING CHARGES	Towing Company	Invoice Number	



AFFECTED VEHICLES:  
MODELS: 2006 ECLIPSE

Date: June, 2005

**RE: IMPORTANT SAFETY RECALL NOTIFICATION: SR-05-003**

Dear Mitsubishi Owner,

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

**Reason For Notice:** Mitsubishi Motors North America, Inc. has decided that a defect that relates to vehicle safety exists in certain 2006 Eclipse vehicles. The brake master cylinder, which controls the fluid pressure to your vehicle's brakes, may allow brake fluid to bypass internally during stopping. This may result in partial loss of braking, increased stopping distances and could lead to a vehicle crash.

**What you should do:** Please contact your Authorized Mitsubishi Dealer to schedule a repair date. Parts for your vehicle have already been allocated to the selling dealership. If you must go to a dealer other than your selling dealer, please contact Mitsubishi Customer Relations at 1-888-648-7820 to arrange for special parts handling. When you bring your vehicle in, show this letter. (If you misplace this letter, they will still make the repair, free of charge.)

**What your dealer will do:** The dealership will replace the brake master cylinder.

**How long will it take?** The time needed for the actual repair is approximately 2 hours. The dealer may need your vehicle for a longer period of time due to service scheduling issues, but every effort will be made to minimize your inconvenience.

If you have any trouble having your vehicle repaired promptly and at no charge, please inform us by calling:  
Mitsubishi Customer Relations Department **888-MITSU-2005 (888-648-7820)**  
Hours: Monday – Saturday 7 a.m. to 10 p.m. (Central Standard Time)

If after contacting Mitsubishi Customer Relations, you still have a problem having this repair made promptly and without charge, write to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street SW, Washington, D.C. 20590, or call the Auto Safety Hotline toll-free (888) 327-4236.

If you have already encountered a problem regarding the above and have paid for the repair, you may send your original receipts and/or other adequate proof of payment to the following address for reimbursement:  
Mitsubishi Customer Relations Department, P.O. Box 6400, Cypress, CA 90630-0064

**Notice to Lessors:** If you are a lessor of five or more leased vehicles as of the date of this letter, you have an obligation under federal law, (49 CFR Part 577), to provide the lessee of the above referenced vehicle with a copy of this letter by first class mail within ten days of receipt. Further, you must maintain a record, which identifies the lessee to whom you sent a copy of this letter, the date you sent it, and the vehicle identification number (VIN) of the subject vehicle.

We appreciate your prompt attention to this matter. If you have any questions, please contact your Mitsubishi Dealer.

Sincerely,

A handwritten signature in black ink that reads "Chuck Halper".

Chuck Halper  
Vice President, Service

C0503KXX



## ATTACHMENT A

### MY06 Mitsubishi Eclipse Master Cylinder Replacement

#### CAUTION

- Remove foam piston protector to expose the rear piston prior to installation.
- Take care not to scratch or disturb the exposed rear piston.
- Should the rear piston become dislodged, discard master cylinder. **Do not attempt to reinsert.**
- Follow service instructions for replacing master cylinder.
- Use new o-ring between master cylinder and booster. (included in kit).
- Use new nuts in installation (included in kit).