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MAILING ADDRESS: P.O. BOX 6400 CYPRESS, CALIFORNIA 90630-0064

June 24, 2005

Ms. Kathleen DeMeter, Esq.
Director, Office of Defects Investigation
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

Re: Defect Information Report

05V-299 (17 pages)

Ms. DeMeter:

In accordance with the provisions of 49 CFR 573 - Defect and Noncompliance Reports, Mitsubishi Motors North America, Inc. (MMNA) hereby furnishes this <u>Defect Information</u> Report, which contains details of a potential brake master cylinder defect in certain 2006 model year MMNA manufactured Eclipse vehicles.

The recall affects 3,760 vehicles distributed by MMNA. This defect is not related to the brake booster defect recalled as 05V-247.

Should you have any questions or need additional information, you may reach me at one of the contact points listed below.

Sincerely,

Kent Reeves, Manager

Technical Compliance and Quality Engineering

Mitsubishi Motors North America, Inc.

Telephone: 714-372-6362

Fax: 714-934-4242

Email: kreeves@mmsa.com

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DRAFT Defect Information Report

Mitsubishi Motors North America, Inc hereby submits this <u>Defect Information Report</u> covering certain 2006 model year Eclipse vehicles. The contents of this report have been arranged to follow the sequence set forth in 49 CFR 573.5.

1. The manufacturer's name:

Mitsubishi Motors North America, Inc - Manufacturing Division

2. Identification of the vehicles and defect item;

Make Line Model Year Dates of Manufacture

Mitsubishi Eclipse 2006 30 May '05 ~ 10 June '05

Item: Brake Master Cylinder Assembly.

3. Total number of vehicles:

Make Line Number of Involved

Mitsubishi Eclipse 3,760

4. Percentage of vehicles estimated to contain the potential defect:

It is impossible to know the actual percentage of vehicles that may contain the defect; however, all potentially affected vehicles will be included in the recall for replacement of the master cylinder assembly.

5. Description of the defect including summary:

One of four seals inside the master cylinder may have been installed in the improper direction. As a result, the master cylinder may unexpectedly by-pass braking force pressure and allow a longer than normal pedal stroke. Should this condition occur, the braking distance required to stop the vehicle will increase and may lead to a vehicle crash.

6. Chronological summary of events leading to this determination:

On or about June 3, 2005, following the replacement of the Brake Booster for recall 05V-247, a customer contacted Mitsubishi Customer Relations department complaining that the brake pedal seemed "spongy" on occasion and the pedal sometimes seemed to go to the floor when the brakes were applied. Mitsubishi arranged for a new master cylinder to be installed on the vehicle and forwarded the part to Robert Bosch, the supplier of the

master cylinder. On or around June 7, two other vehicles were reported as having soft brake pedals. Those parts were also sent to Robert Bosch where it was determined that all three master cylinder assemblies had one of the brake seals installed incorrectly. Subsequently, on June 13, Robert Bosch inspected 1,227 master cylinders and found that 5 of them had a seal installed improperly. On June 17, 2005, Mitsubishi determined that a safety recall was necessary in order to identify and repair any vehicles that may be affected by a defective master cylinder.

7. Test results for a noncompliance:

Not applicable.

8. Description of the proposed remedy:

The owners of all subject vehicles will be notified by mail first class mail and requested to bring their vehicle back to their dealer for replacement of the master cylinder free of charge. A copy of the draft TSB and proposed letter are attached for your review and approval.

9. Launch date:

Mitsubishi will begin to ship parts to the dealers for arrival on or before June 27, 2005. (many of these parts are being made available due to the assembly plant shutdown currently scheduled for new model changeover).

The dealer organization will be provided official notification on June 27, 2005, along with copies of the repair instructions. They will also be provided owner contact scripts for those dealers that wish to telephone their customers prior to them receiving a letter in the mail. Owners will be notified by first class mail on or around June 28, 2005.

10. Notices, bulletins and communication:

- Attached are copies of the dealer "Notice of Voluntary Recall Action" that will be supplied to the dealers electronically on June 27, 2005.
- Technical Service Bulletin SR-05-003 outlining the replacement procedures for the brake master cylinder which includes a sample copy of the owner notification letter.

11. Reimbursements:

While it is not expected that any owners will have experienced any expense related to this recall, they will be notified in the notification letter that they may seek reimbursement by contacting the Mitsubishi Customer Relations Department.



SUBJECT:

BRAKE MASTER CYLINDER REPLACEMENT — SAFETY RECALL CAMPAIGN

No: SR-05-003

DATE: June, 2005

MODEL: 2006 Eclipse

CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCESSOR	[] 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

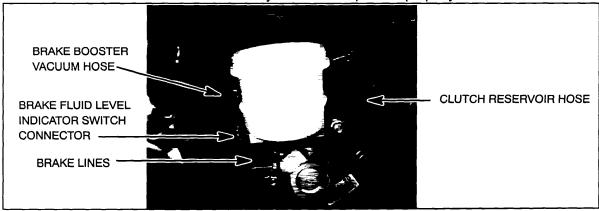
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- 1. Record the customer's audio system settings, so you can re-set them after the battery is reconnected.
- 2. Be sure both windows are completed closed. This prevents the power windows from losing their short stroke memory.
- 3. Remove the strut 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

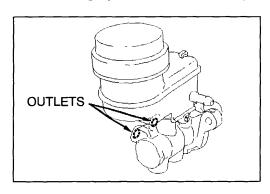
Take care to prevent damaging the master cylinder piston. If the piston becomes dislodged, discard the master cylinder. Do not attempt to reinsert the piston.

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

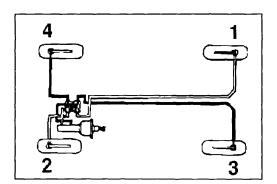
a. Use the O-ring and attachment nuts provided in the master cylinder assembly kit. Tighten the attachment nuts to 22 ± 5 Nm (17 ± 4 ft/lb).

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 reserve tank with brake fluid. Use Mitsubishi Brake Fluid p/n MZ311987.
- 16. Thoroughly bleed the master cylinder and brake lines as follows:

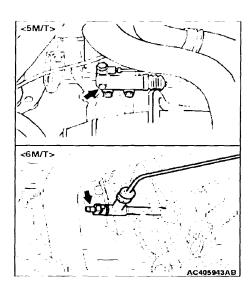


- a. Press the brake pedal continuously.
- b. Have another person cover the master cylinder outlets with their fingers.
- c. Release the brake pedal.
- d. Repeat steps a. through c. at least three times, holding the pedal to the floor the third time. Ensure that all air is removed.
- 17. Tighten the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

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)

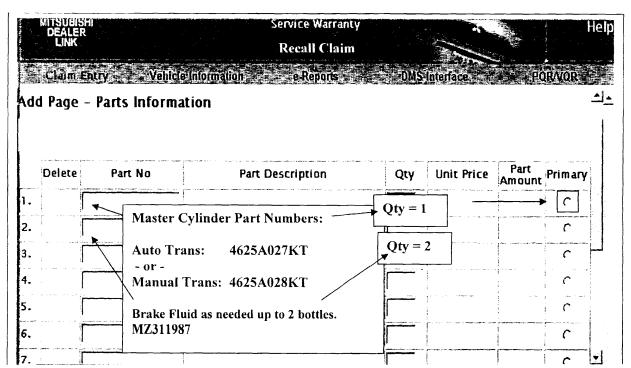
Mitsubishi Motors North America, Inc.

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).

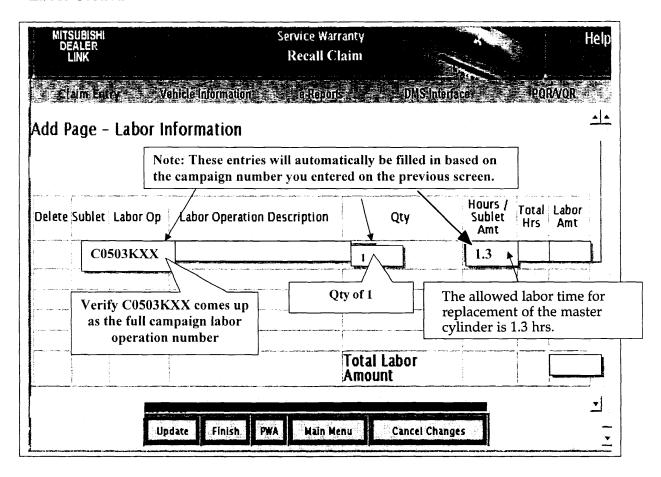
Header Section 2006 ECLIPSE BRAKE MASTER CYLINDER REPLACEMENT REQUIRED ON ALL INVOLVED VEHICLES

Verify each vehicle's involvement. WIN 4A Repair Date Repair Date Out Service Emp No Service Advisor Emp No Spec Value * Duplicate Recall *	claim latery Vehicle paign Information laign C0503K	Information :	recall repair is for the ampaign. Be sure to	nose 2006 Eclipses check the Super		
Technician Service Advisor Duplicate Recall *	/Km 4A	Repair Date		C12345 Repair Date		
		Emp No	Service Advisor	En	np No	
Dealer: 99320 Ref No: VIN: Claim No: Adj: Claim Status: Incomplete Model and Year:	: 99320 Ref No:	CI		VIN:		

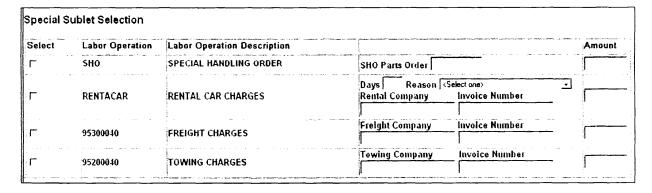
Parts Section



Labor Section



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.





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,

Chuck Halper

Vice President, Service

Church Holger

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).



CHUCK HALPER VICE PRESIDENT SERVICE SALES DIVISION 6400 KATELLA AVENUE CYPRESS, CALIFORNIA 90630-0064

URGENT: NOTICE OF VOLUNTARY RECALL

Date: June 27, 2005

To: All Mitsubishi Dealers

All Mitsubishi Dealership Sales, Parts and Service Managers

Subject: 2006 Eclipse Master Cylinder (Recall #SR-05-003)

We regret to inform you of a voluntary recall on the new 2006 Eclipse (all versions). Do not deliver, sell, lease, wholesale trade, or operate on public or private roadway, any 2006 model Eclipse unless repairs (as described in the "Recall Bulletin" attached) are performed. This notice is in accordance with Title #49, CFR 573; of the NHTSA regulation, prohibiting the sale or lease of defective vehicles prior to correction of a defect. Following are important details:

Models Affected

All 2006 Mitsubishi Eclipse models from start of production through production of June 10, 2005. Check your "super screen" to verify affected units, as some units you may have received recently have already been corrected.

Incident

Some vehicles may have a brake master cylinder with an improperly assembled internal seal. The improperly fitted seal could allow fluid to bypass intermittently, increasing brake pedal stroke ("travel"). This voluntary recall action is unrelated to the previous campaign covering the Brake Booster.

Do Not Sell Unless Repairs Are Performed

Effective immediately, do not demo, trade or retail any 2006 Eclipse until repairs are performed. Shipments by MMNA of corrected Eclipse models has resumed already.

Customer's Vehicles

Take the following action with/and for all customers who have taken delivery of a 2006 Eclipse, even if they have had the previous booster inspection or repair.

- 1. Call your customer and explain the situation using the appropriate script attached. If you cannot reach them by phone or voicemail, use telegram, fax, or e-mail, etc. and follow-up by phone.
- Set an appointment for repair; ensure that correct master cylinder kit is available.
- 3. R&R master cylinder using the instructions on the recall bulletin.

Note: The customer may drive their Eclipse to the dealership. Do not deviate from the script provided. One script is for customers who had a booster inspection or repair and one without.

Repair

The repair is described in the attached bulletin. A kit containing a new master cylinder, seal, and fasteners is being provided. Please follow the campaign claims instructions therein and submit claims promptly.

Parts Kits

A quantity of parts was force-fed, based on your sold/on-hand and in-transit inventory as of June 22, 2005. Your Parts Manager will receive parts with a VIN list and parts instructions enclosed. Additional parts should be ordered, as needed....but will be on "manual" allocation.

Kit Application	Kit Number	Contents	Dealer Net
All w/ manual trans. (5 spd or 6 spd)	4625A028KT	Master cylinder, seal, fasteners	\$ 38.25
All w/ auto trans.	4625A027KT	Master cylinder, seal, fasteners	\$ 38.25

Once repairs are performed, you may sell corrected units.

We apologize for your inconvenience.

Sincerely,

Chuck Halper

Vice President, Service

Church Holpe

Mitsubishi Motors North America, Inc.

Attachment:

- Calling Scripts
- Question and Answer
- Recall Bulletin
- Owner Letter

Call Script (Customers Not Affected by Previous Booster Recall)

Hello, may I please speak to <u>(customer)</u>. This is <u>(dealer person name)</u> from <u>(dealership)</u>. I have an important safety message about your / their new Eclipse. (If you cannot speak with them, but can leave a message, do so – but call back until you reach them).

Your / their new Eclipse may have a problem with the brake master cylinder, and we must ask you to return the car to our dealership for repair.

The brake master cylinder controls the fluid pressure to your vehicle's brakes when you press on the brake pedal. In a few cases, it has been determined that the master cylinder may intermittently allow fluid to "bypass" internally, resulting in an unexpected loss of braking efficiency.

While you will not lose the ability to stop your vehicle, the condition will make the pedal feel "soft and spongy" and your stopping distance will be substantially increased. Until you are able to return to your dealer for replacement of the master cylinder, you should avoid driving your vehicle in congested areas where you may have to make an emergency stop. In the event your brake pedal moves further than expected, release and reapply the pedal and full braking performance should be returned.

In order to correct this potential problem, we want to replace the master cylinder on your vehicle with a new one as soon as possible. When can you come in?

Call Script (Customers Affected by Previous Booster Recall)

Hello, may I please speak to <u>(customer)</u>. This is <u>(dealer person name)</u> from <u>(dealership)</u>. I have an important safety message about your / their new Eclipse. (If you cannot speak with them, but can leave a message, do so – but call back until you reach them).

Your / their new Eclipse may have a problem with the brake master cylinder, and we must ask you to return the car to our dealership for repair. This is a separate issue you may have been contacted about earlier this month.

The brake master cylinder controls the fluid pressure to your vehicle's brakes when you press on the brake pedal. In a few cases, it has been determined that the master cylinder may intermittently allow fluid to "bypass" internally, resulting in an unexpected loss of braking efficiency.

While you will not lose the ability to stop your vehicle, the condition will make the pedal feel "soft and spongy" and your stopping distance will be substantially increased. Until you are able to return to your dealer for replacement of the master cylinder, you should avoid driving your vehicle in congested areas where you may have to make an emergency stop. In the event your brake pedal moves further than expected, release and reapply the pedal and full braking performance should be returned.

In order to correct this potential problem, we want to replace the master cylinder on your vehicle with a new one as soon as possible. When can you come in?

Questions and Answers

Q. Is this different from the recent "Brake Booster" campaign?

A. Yes. While manufactured by the same supplier, the master cylinder problem is a separate issue. As such, another repair is needed on previously inspected or repaired "Brake Booster" vehicles.

Q. What happens if I drive the car?

A. If your car has an improperly installed seal, and if it malfunctions, the brake pedal will travel (stroke) farther than before and your overall stop distances will be lengthened. While you will not lose the ability to stop your vehicle, the condition will make the pedal feel "soft and spongy" and your stopping distance will be substantially increased. Until you are able to return to your dealer for replacement of the master cylinder, you should avoid driving your vehicle in congested areas where you may have to make an emergency stop. In the event your brake pedal moves further than expected, release and reapply the pedal and full braking performance should be returned.

Q. What will you do for me?

A. Install a new master cylinder assembly, at no charge.

Q. What should I do?

A. Make arrangements with your Mitsubishi dealership to have repairs done <u>as soon as</u> possible.

Q. How long will the repair take?

A. Approximately 1½ hours for the repair. Customers should allow at least ½ day for repairs to be completed.

Q. Will you provide me a loaner?

A. Substitute transportation will be provided, as needed.

Q. Who can I call for questions and to voice my concerns?

A. You can talk to your Mitsubishi dealership or directly to Mitsubishi Consumer Affairs at 1-888-MITSU2005.