



Technical Service Bulletin

SUBJECT: WET CARPET ON DRIVER'S SIDE FLOOR		No: TSB-11-55-003
		DATE: August, 2011
		MODEL: See below
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input type="checkbox"/> PARTS MANAGER
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

This TSB supercedes TSB-08-55-007, issued September, 2008, to provide a new procedure to correct a condition of HVAC drainage re-entering the vehicle due to a deteriorated seal, without removing the HVAC unit (most vehicles). This is a complete re-write and changes are not indicated.

PURPOSE

While being driven with the air conditioning on, condensation created in the heater/ventilation/air conditioning unit (HVAC) drains through an outlet into the engine compartment. If the grommet that seals the HVAC case to the bulkhead deteriorates, air flow can force the drained condensation back into the vehicle's interior where it collects on the driver's floor.

This TSB provides a procedure to add a 90° hose extension to the drain to correct this condition in most vehicles without removing the HVAC unit.

AFFECTED VEHICLES

2006–2012 Eclipse
2007–2012 Eclipse Spyder
2004–2012 Galant
2004–2011 Endeavor

PROCEDURE

Eclipse, Eclipse Spyder, Galant

1. Open the hood.
2. Raise the vehicle on a hoist. Locate the existing heater unit drain outlet.



Vehicles with 4 Cylinder engine

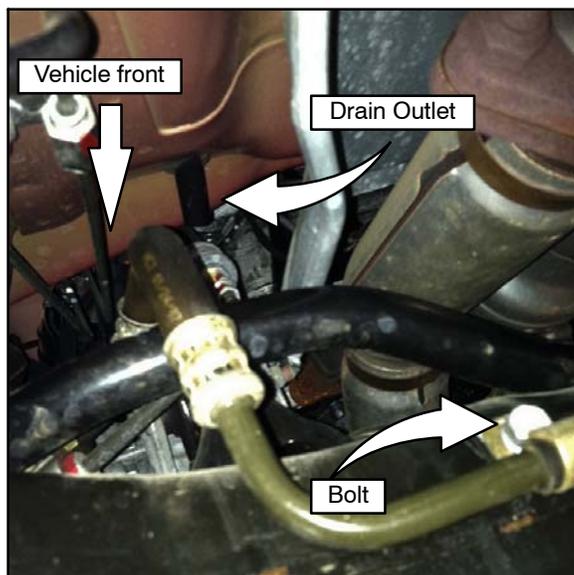
3. Apply liquid soap to the inside of the short section of the drain hose.
4. Install the drain hose to the outlet tube.
 - a. Position the short end of the drain hose over the end of the outlet tube with the end of the hose hanging straight down.
 - b. Twist and wiggle the hose while applying light pressure until it contacts the foam bulkhead seal.
5. Pull on the hose with light pressure to confirm it is properly installed.

Continued

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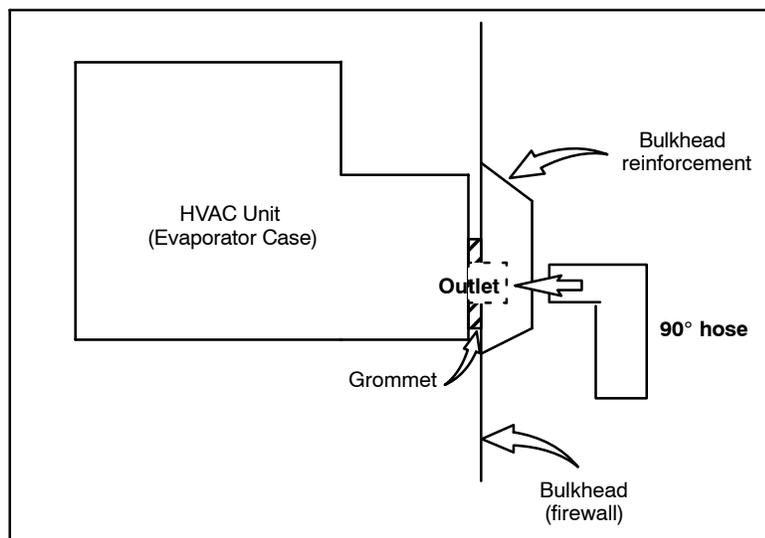
Vehicles with V6 engine

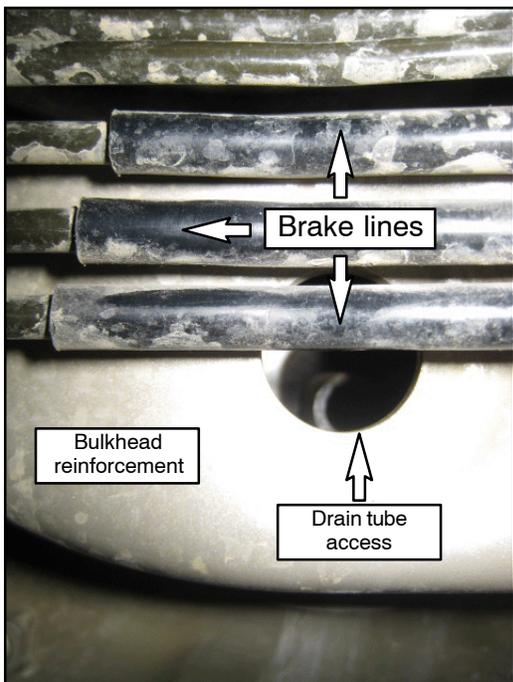
Perform this operation from under the driver's seat area looking towards the front of the vehicle.

1. Remove the bolt securing the power steering hose to the cross member.
2. Apply liquid soap to the inside of the short section of the drain hose.
3. Install the drain hose to the outlet tube.
 - a. Position the short end of the drain hose over the end of the outlet tube with the end of the hose hanging straight down.
 - b. Twist and wiggle the hose while applying light pressure until it contacts the foam bulkhead seal.
 - c. Make sure the hose is at least 1" (25mm) from the exhaust.
4. Pull on the hose with light pressure to confirm it is properly installed.
5. Reinstall the power steering hose bolt. Torque the bolt to $12 \pm 2\text{Nm}$ ($106 \pm \text{in-lb}$).

ENDEAVOR

The Endeavor drain outlet is between the bulkhead and a bulkhead reinforcement requiring that you insert the drain hose through an existing hole in the reinforcement to attach it to the outlet (see illustration below).



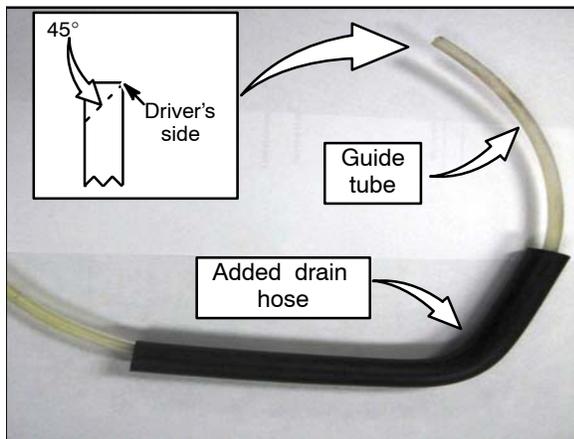


!! IMPORTANT !!

Installation of a drain hose cannot be performed on some Endeavors. Due to production variation, the brake lines may cover up to 50% of the access hole for the HVAC drain outlet. If the position of brake lines prevents you from properly inserting the drain hose, refer to Procedure B on page 6. Procedure B includes removing the HVAC assembly and replacing the bulkhead grommet seal.

Special Equipment

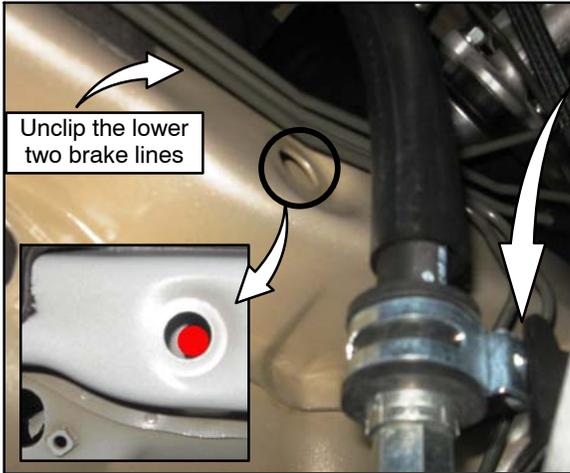
The following equipment will help install the drain hose on all Endeavors.



- Guide Tube – 18" length of stiff ¼" polyethylene tube (e.g plastic ice maker water line).
Cut one end of the guide tube at a 45° angle to ease inserting the hose into the drain tube.

Procedure A.

Use this procedure if there is sufficient clearance to insert the drain hose past the brake pipes. If clearance is restricted, go to Procedure B on page 6.

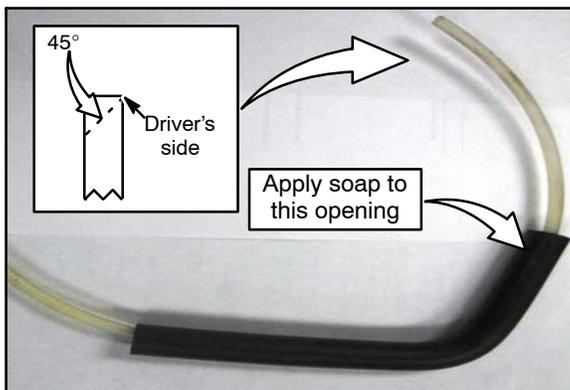
ENDEAVOR FWD

1. Open the engine hood.
2. Raise the vehicle on a hoist. Locate the existing HVAC drain outlet in the dash crossmember (circled).

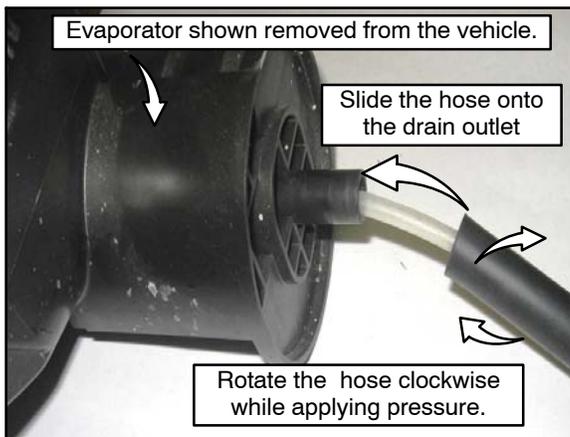
NOTE: The drain outlet is offset from the hole opening. It is low in the opening and slightly toward the driver's side of the vehicle (inset photo).

- a. Remove the bolt from the power steering hose bracket and gently move the hose toward the driver's side of the vehicle.
- b. Unclip the lower two brake lines from the white retaining clip.

⚠ WARNING Take care to not damage the retaining clip or kink the brake pipes when unclipping or reinstalling them. Replace retaining clips if broken.



3. Cut one end of the guide tube at a 45° angle.
4. Apply liquid soap to the short section of the drain hose.
5. Install the drain hose as follows:
 - a. Slide the drain hose over the guide tube.
 - b. Insert the guide tube into the drain outlet with the point at the driver's side of the vehicle.

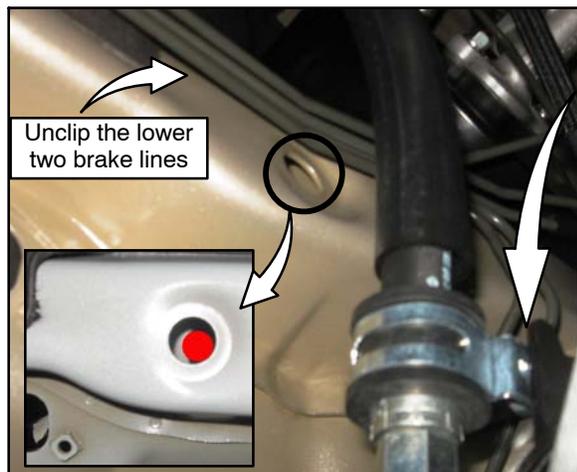


6. Slide the drain hose along the guide tube (short side first) through the hole in the bulkhead until it makes contact with the drain outlet.
7. Once the drain hose is aligned with the drain outlet, straighten it and rotate in a clockwise direction while applying light pressure to the hose until it is fully seated.

You may need to rotate it more than once before it is fully seated.

8. Pull on the hose with light pressure to confirm it is properly installed.
9. Remove the guide tube.
10. Re-secure the brake lines in the white clip.
11. Re-secure the power steering hose bracket. Torque the bolt to $12 \pm 2\text{Nm}$ ($106 \pm \text{in-lb}$).

Endeavor AWD

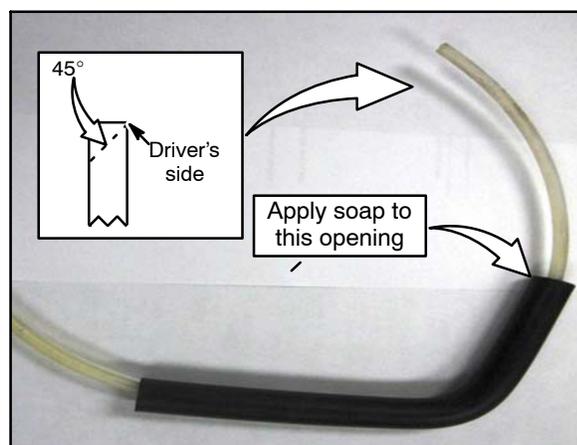


1. Open the engine hood.
2. Raise the vehicle on a hoist. Locate the existing HVAC drain outlet in the dash crossmember (circled).

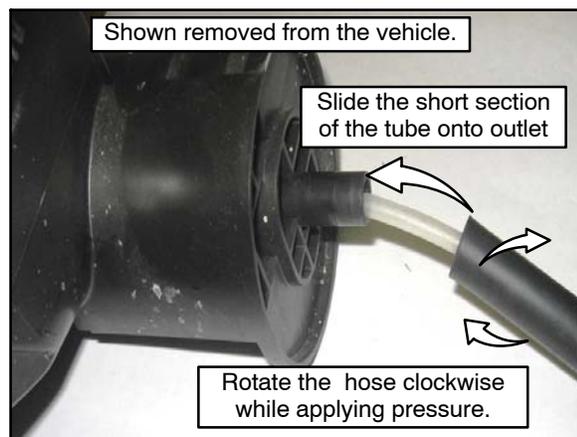
NOTE: The drain outlet is offset from the hole opening. It is low in the opening and slightly toward the driver's side of the vehicle (inset photo).

- a. Remove the bolt from the power steering hose bracket and gently move the hose toward the driver's side of the vehicle.
- b. Unclip the lower two brake lines from the white retaining clip.

WARNING Take care to not damage the retaining clip or kink the brake pipes when unclipping or reinstalling them. Replace retaining clips if broken.



3. Cut one end of the guide tube at a 45° angle.
4. Apply liquid soap to the short section of the drain hose.
5. Install the drain hose as follows:
 - a. Insert the guide tube into the drain outlet with the point at the driver's side of the vehicle.
 - b. Slide the drain hose over the guide tube (short section first).



6. Slide the drain hose along the guide tube (short side first) through the hole in the bulkhead until it makes contact with the drain outlet.
7. Once the drain hose is aligned with the drain outlet, straighten it and rotate in a clockwise direction while applying light pressure to the hose until it is fully seated.

You may need to rotate it more than once before it is fully seated.

8. Pull on the hose with light pressure to confirm it is properly installed.
9. Remove the guide tube.
10. Re-secure the brake lines in the white clip.
11. Re-secure the power steering hose bracket. Torque the bolt to $12 \pm 2\text{Nm}$ ($106 \pm \text{in-lb}$).

Procedure B.

Use this procedure only if there is insufficient brake pipe clearance to insert the drain hose.

1. Remove the HVAC case and evaporator and replace the heater drain grommet (p/n 7801A300). Refer to Group 55 Heating, Air Conditioning & Ventilation in the applicable service manual for removal and installation instructions.
2. Install a cabin air filter (p/n MZ312931) into the blower motor housing (if one is not already installed). Follow the installation instructions included with each filter. Installation instructions are also available on the MDL from the “parts” page by selecting “parts information, then “Technical Resources,” then “Accessory Installation Instructions.”

NOTE: Future replacement of cabin air filters (as any other filter) is considered maintenance and is at customer expense.

PARTS INFORMATION

Use only the following Genuine Mitsubishi parts:

Hose	Eclipse, Eclipse Spyder, Galant	MB660749
Hose	Endeavor	MR450338
Grommet, Heater	Endeavor – Only if unable to install drain hose	7801A300
Filter, Cabin Air	All Affected Vehicles	MZ312931

WARRANTY INFORMATION

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin and submit a normal warranty claim using the following information.

HVAC Drain Outlet Hose Installation

Nature Code: 72D

Cause Code: 340

Labor Operation No.: 551110 96

Time Allowance: 0.3 hr. Endeavor 2WD
0.4 hr. Endeavor AWD
0.2 hr. Others

Warranty Coverage: Basic Coverage. Refer to the *Superscreen* for basic coverage terms applicable to each vehicle.

HVAC Grommet Replacement (ENDEAVOR only)

Nature Code: 40Z

Cause Code: 580

Labor Operation No. 55151195

Time Allowance: 5.6 hr.

Warranty Coverage: Basic Coverage. Refer to *Superscreen*.

Blower Motor Housing Filter (if not already equipped)

Nature Code: 40Z

Cause Code: 580

Labor Operation No. 55251010

Time Allowance: 0.3 hr.

Warranty Coverage: Basic Coverage. Refer to *Superscreen*.

Special Warranty Information: The described filter installation should only be done on a customer complaint basis and may only be claimed as part of this HVAC system warranty repair. Future filter replacements are considered customer responsibility and part of normal maintenance.