

# DAIMLER



Daimler Trucks North America  
Nasser Zamani  
Senior Manager  
Compliance and Regulatory Affairs

October 9, 2008

Dan Smith  
Associate Administrator for Vehicle Safety  
National Highway Traffic Safety Administration  
1200 New Jersey Avenue S.E.  
Washington D.C. 20590

**Re: Defect Information Report – Supplemental Report No. 6  
06V-190, FL-476 (phase 3), Tyco Main Cab PDM**

Mr. Smith

In accordance with Part 573 of Title 49 of the Code of Federal Regulations, Daimler Trucks North America LLC herewith submits supplemental defect information and copies of documents to be distributed to dealers and purchasers. Owner and dealer notification has been completed for FL-476C which is phase three of recall 06V-190, FL-476, and affects only Australian vehicles.

- (c)(3) Total number of vehicles potentially affected: 1,945 Australian vehicles**
- (c) (8)(ii) Communications sent to dealers:** posted September 23, 2008  
**Communications sent to owners:** Will be contacted by International Service Managers
- (c) (10) Copies of Communications sent to owners and dealers are attached.**

Please contact me if you have any questions.

Sincerely yours,

  
Nasser Zamani

Cc: Michael Mason, CAL-OSHA  
Enclosure  
Certified Mail# 7004 2890 0004 1202 0843

A Daimler Company

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## Subject: PDM Covers

**Models Affected: Specific Freightliner Columbia, Coronado, Century Class S/T, and Argosy vehicles, manufactured between June 4, 2004, and October 19, 2005.**

### General Information

Daimler Trucks North America, on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

There are approximately 66,000 vehicles involved in this campaign.

Certain vehicle cabs may leak causing water to enter the Power Distribution Module (PDM). If water enters the PDM, electrical damage may occur resulting in possible heat damage to the vehicle and fire.

A protective shield will be installed over the PDM. The PDM will be inspected and replaced if water damage is found.

Less than 2% of vehicles are expected to require replacement of the PDM.

**REVISIONS:** Approximately 2,000 right hand drive Argosy, Columbia, Coronado and Century Class S/T vehicles have been added to this recall. A new PDM drip shield assembly kit (25-FL476-003) has been added to the recall for these vehicles.

### Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR260).

### Replacement Parts

Replacement kits are now available and can be obtained by ordering the kit number(s) listed below from your facing Parts Distribution Center.

If our records indicate your distributorship has ordered any vehicle(s) involved in campaign number FL476A, a list of the customers and vehicle identification numbers will be available on [AccessFreightliner.com](http://AccessFreightliner.com). Please refer to this list when ordering parts for this recall. NOTE: Less than 2% of vehicles are expected to require replacement of the PDM.

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Only replace the PDM if evidence of damage is found. Replacement PDMs must be ordered by vehicle serial number. Less than 2% of vehicles are expected to require replacement of the PDM.

Table 1 - Replacement Parts for FL476A-C

Campaign Number	Kit Number	Part Description	Part Number	Qty. per Kit	Suggested Wholesale*
FL476A	25-FL476-000	PDM Drip Shield Assembly	Each Assembly includes: A06-63636-000 (shield) A06-56192-024 (tether) 23-12704-000 (rivet)	1 ea	\$19.74 U.S. \$25.14 CAN
		Completion Sticker	WAR260	1 ea	
FL476B	25-FL476-002	PDM Drip Shield Assembly	Each Assembly includes: A06-63639-000 (shield) A06-56192-024 (tether) 23-12704-000 (rivet)	1 ea	\$63.96 U.S. \$63.96 CAN
		Completion Sticker	WAR260	1 ea	
FL476C	25-FL476-003	PDM Drip Shield Assembly	Each Assembly includes: A06-68469-000 (shield) A06-56192-024 (tether) 23-12704-000 (rivet)	1 ea	\$79.83 U.S. \$83.02 CAN
		Completion Sticker	WAR260		
FL476A-C	25-FL476-001	Power Distribution Module (PDM)	A06-48239-000	1 ea	\$329.32 U.S. \$476.77 CAN

\* Please charge all Direct Warranty Customers the above-listed price for the kit, as they are authorized to perform their own Recalls.

Table 1

## Removed Parts

Destroy removed parts unless otherwise advised.

## Labor Allowance

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Damage Code
FL476A-C	Inspect PDM for water damage and install cover	1.3	996-0668A	000-Modifiedx
FL476A-C	Inspect PDM for water damage, replace PDM, and install cover	1.5	996-0668B	000-Modifiedx

Table 2

**IMPORTANT:** When the recall has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the red completion sticker provided in the recall kit (Form WAR260). If the vehicle does not have a base completion label, clean a spot on the appropriate location of the vehicle and first attach the base completion label (Form WAR259). If a recall kit is not required or there is no completion sticker in the kit, write the recall number on a blank sticker and attach it to the base completion label.

## Claims for Credit

You will be reimbursed for your parts, labor, and landed cost by submitting your claim through the Warranty system within 30 days of completing this recall. Please reference the following information in QuickClaim®:

- Claim type is **Recall**.
- In the FTL Authorization field, enter the campaign number and appropriate condition code (e.g., **FL476A, FL476B, etc.**).
- In the Primary Failed Part Number field, enter **25-FL476-000**.
- In the Parts field, enter the appropriate kit number(s) as shown in the Replacement Parts Table.
- In the Labor field, first enter the appropriate SRT from the Labor Allowance Table. For administrative time, enter SRT 939-0010A for 0.3 hours.

**IMPORTANT:** If available, check ServicePro® prior to performing this recall to ensure the vehicle is involved and that the recall has not been previously completed. Also, check for a completion sticker prior to performing the recall. For customers that operate outside of their home territory, please arrange for the vehicles repair with a distributorship that is in the area.

**Excess inventory is not returnable.**

If you have any questions or need additional information, submit a Web inquiry at [AccessFreightliner.com](http://AccessFreightliner.com) / Support / Submit an Inquiry or contact your International Service Manager.

# Recall Campaign

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## Copy of Letter to Owner

### Subject: PDM Covers

Daimler Trucks North America, on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on specific Freightliner Columbia, Coronado, Century Class S/T, and Argosy vehicles, manufactured between June 4, 2004, and October 19, 2005.

Certain vehicle cabs may leak causing water to enter the Power Distribution Module (PDM). If water enters the PDM, electrical damage may occur resulting in possible heat damage to the vehicle and fire.

A protective shield will be installed over the PDM. The PDM will be inspected and replaced if water damage is found.

Repair kits are now available for authorized distributors to order. Contact your authorized distributorship to arrange to have your vehicle(s) modified and to assure that parts are available at the distributor.

When you contact your distributorship, reference recall campaign number **FL476C**. Once kit(s) are received at the distributorship, the inspection/modification will take approximately two hours and will be performed at no charge to you.

**IMPORTANT:** When the Recall has been completed, please ensure that a label has been affixed to your vehicle referencing **FL476A-C**.

If you do not own the vehicle that corresponds to the identification number(s) which appears on the Recall Notification, please return the notification to the Warranty Campaigns Department with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, please make sure this notification is immediately forwarded to the lessee.

If you are unable to have the defect remedied without charge and within a reasonable time after you tender the vehicle for repair, please contact the Warranty Campaigns Department at e-mail address [DTNA.Warranty.Campaigns@Daimler.com](mailto:DTNA.Warranty.Campaigns@Daimler.com).

We regret any inconvenience this action may cause but feel certain you understand our interest in motor vehicle safety.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

## Work Instructions

### Subject: PDM Covers

**Models Affected:** Specific Freightliner Columbia, Coronado, Century Class S/T, and Argosy vehicles manufactured between September 7, 2004, and October 17, 2005.

#### PDM Inspection Procedure

1. Check the base label (Form WAR259) for a completion sticker for FL476 (Form WAR260) indicating this work has been done. The base label is usually located on the passenger-side door about 12 inches (30 cm) below the door latch. If a sticker for FL476 is present, nothing further needs to be done. If no sticker is present, go to the next step.
2. Shut down the engine, set the parking brake, and chock the tires.
3. Disconnect the batteries at the negative terminals.
4. From inside the cab, remove the electrical (PDM) cover from the dash.  
If it is present, remove the blue plastic HVAC duct from the top of the PDM.
5. *For left-hand drive vehicles:* Remove the right upper dash cover, the HVAC panel, and the HVAC seal. See Fig. 1. Go to step 7.  
*For right-hand drive vehicles:* Remove the upper left dash panel and the HVAC panel. See Fig. 2.  
Remove the vertical HVAC duct from the left side of the dash, next to the door jamb. See Fig. 3.

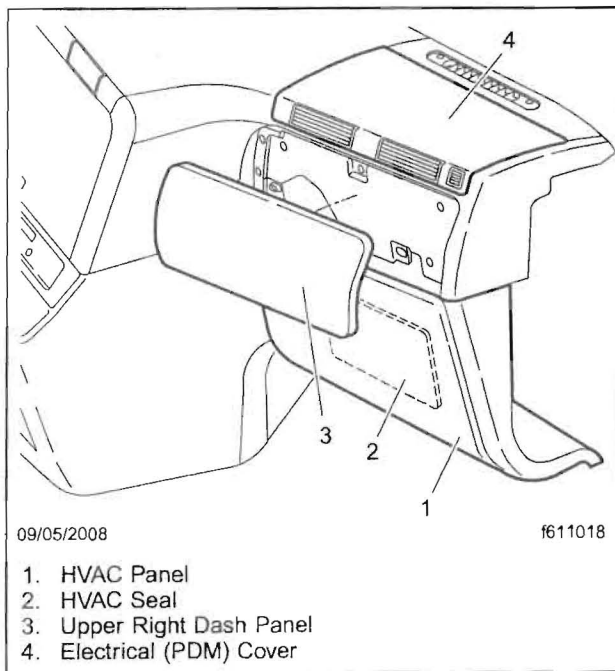


Fig. 1, Panels to Removed (left-hand drive vehicles)

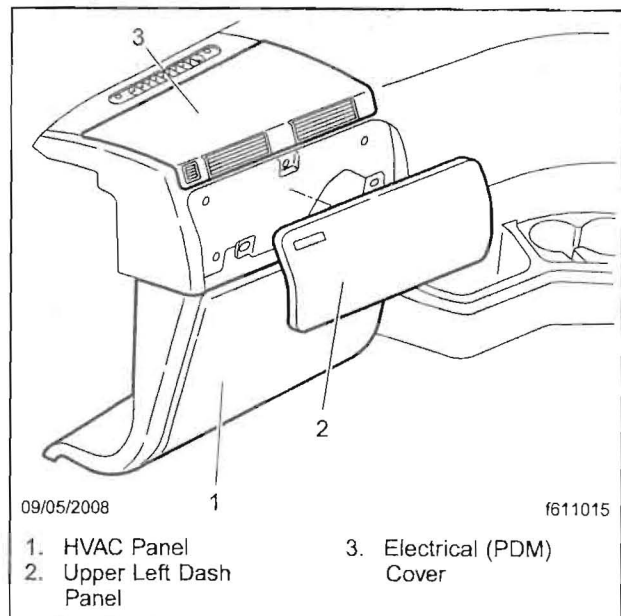
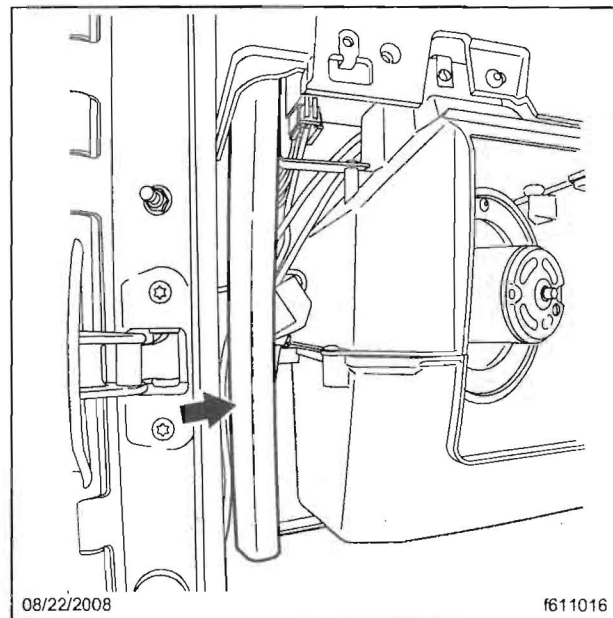


Fig. 2, Panels to Removed (right-hand drive vehicles)

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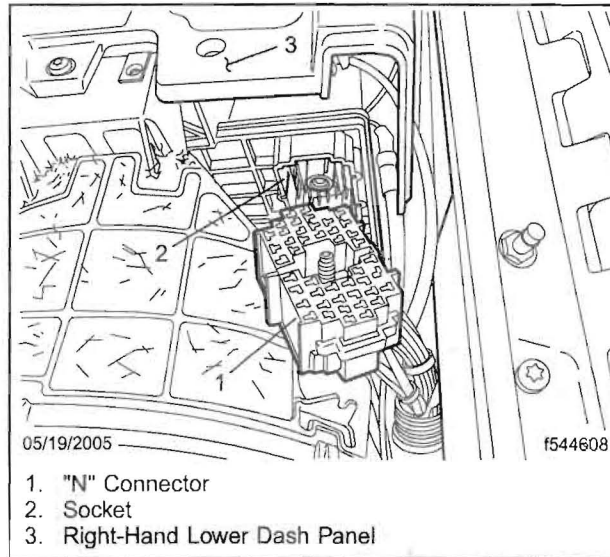
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**Fig. 3, Vertical HVAC Duct to be Removed  
(right-hand drive vehicles)**

6. If a clear PDM cover is present, remove and discard it and the tether. Save the hexnut and washer that held the tether to the mounting stud for the PDM. Set the fasteners aside.
7. Inspect the PDM and all its electrical components (including the pins and connectors of the harness) for water, evidence of previous exposure to water, and heat damage. Also look for warped or melted areas.
  - 7.1 Inspect for moisture or moisture residue on top of the PDM and on the surrounding wires. Look for small spots of white or bluish-green mineral deposits, indicating moisture that has evaporated.
  - 7.2 Starting with the relay positions 7 and 8 at the right upper corner of the PDM, remove all the fuses and relays one by one, and check for corrosion on the pins and in the sockets.
  - 7.3 Mark and remove all harness connectors on the top of the PDM. The connectors on the outboard edge (top and bottom) are most critical; check these areas carefully. Check all pins and sockets for corrosion.
  - 7.4 Disconnect the positive battery cables from the PDM.
  - 7.5 Remove the fasteners that secure the PDM to the dash structure.
  - 7.6 *For left-hand drive vehicles:* Lift the PDM and slide it as far outboard as possible, then from underneath, remove the "N" connector from the bottom of the PDM (a 9/32-inch socket is required). See **Fig. 4**.  
*For right-hand drive vehicles:* Remove the "N" connector from the bottom of the PDM by accessing it at the far left side, where the vertical HVAC duct was removed (a 9/32-inch socket and an extension are required).
  - 7.7 Inspect the pins and sockets of both the PDM and the connector for signs of corrosion.
  - 7.8 Using a mirror, inspect the seam where the top and bottom halves of the PDM are joined. Look for evidence of moisture which will be white mineral deposits coming from the seam below the upper housing.



**Fig. 4, View From Underneath the PDM (left-hand drive vehicles)**

8. If any of the above conditions are found, replace the PDM. Go to "Replacing the PDM" in these work instructions. Repair damaged wiring as necessary. Less than 2% of vehicles are expected to require replacement of the PDM.

If no evidence of moisture damage is found, go to the next step.

9. Attach the PDM to the dash structure as follows.
  - 9.1 Attach the "N" connector to the underside of the PDM.
  - 9.2 Attach all applicable connectors to the top of the PDM.
  - 9.3 Attach the positive battery cables to the PDM.
  - 9.4 *For left-hand drive vehicles:* Install the hexnut and washer on the right mounting stud for the PDM.  
*For right-hand drive vehicles:* Install the hexnut and washer on the left mounting stud for the PDM.
10. Moisture has a tendency to track along wire cables, which can cause it to reach the PDM. Inspect all the cable routings around the PDM. Make sure that no wires cross above the PDM. This includes, but is not limited to, the PDM ground in the "H" connector and all wires routed from the A-pillar.

As needed, route the wires so they will not track moisture to the PDM. Wires coming from the A-pillar should be routed using a drip loop, which is a low point in the wire that will allow any moisture to drip at a point away from the PDM. Secure any wires with tie straps, as needed.

11. Install the HVAC panel, and as applicable, the upper right or upper left dash panel.
12. Go to "Installing the New PDM Cover".

## Installing the New PDM Cover

1. *For left-hand drive vehicles:* Using the previously removed hexnut and washer, attach the tether to the left mounting stud for the PDM.  
*For right-hand drive vehicles:* Using the previously removed hexnut and washer, attach the tether to the right mounting stud for the PDM.

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2. Position the new cover over the PDM. The cover must be positioned outboard as far as possible to completely cover the battery terminals. The inboard side of the cover should be flush against the HVAC duct, but not under it. See Fig. 5, Fig. 6, and Fig. 7.

The edge of the cover that is close to the windshield should sit on top of the wiring harness. The edge of the cover that is close to the dash should rest on the second ledge of the inside surface of the front dash panel. See Fig. 8 for a cross-section view of the installation. Ensure that all the PDM wiring is protected underneath the new cover.

3. If applicable, install the blue plastic HVAC duct on top of the PDM cover, making sure it seats correctly.  
Install the electrical (PDM) cover.
4. *For left-hand drive vehicles:* Install the HVAC seal, the HVAC panel, and right upper dash panel.  
*For right-hand drive vehicles:* Install the HVAC panel and left upper dash panel.
5. Connect the batteries at the negative terminals.
6. Clean a spot on the base label (Form WAR259). The base label is usually located on the passenger-side door about 12 inches (30 cm) below the door latch. Attach a completion sticker for recall FL476 (Form WAR260) to the base label.

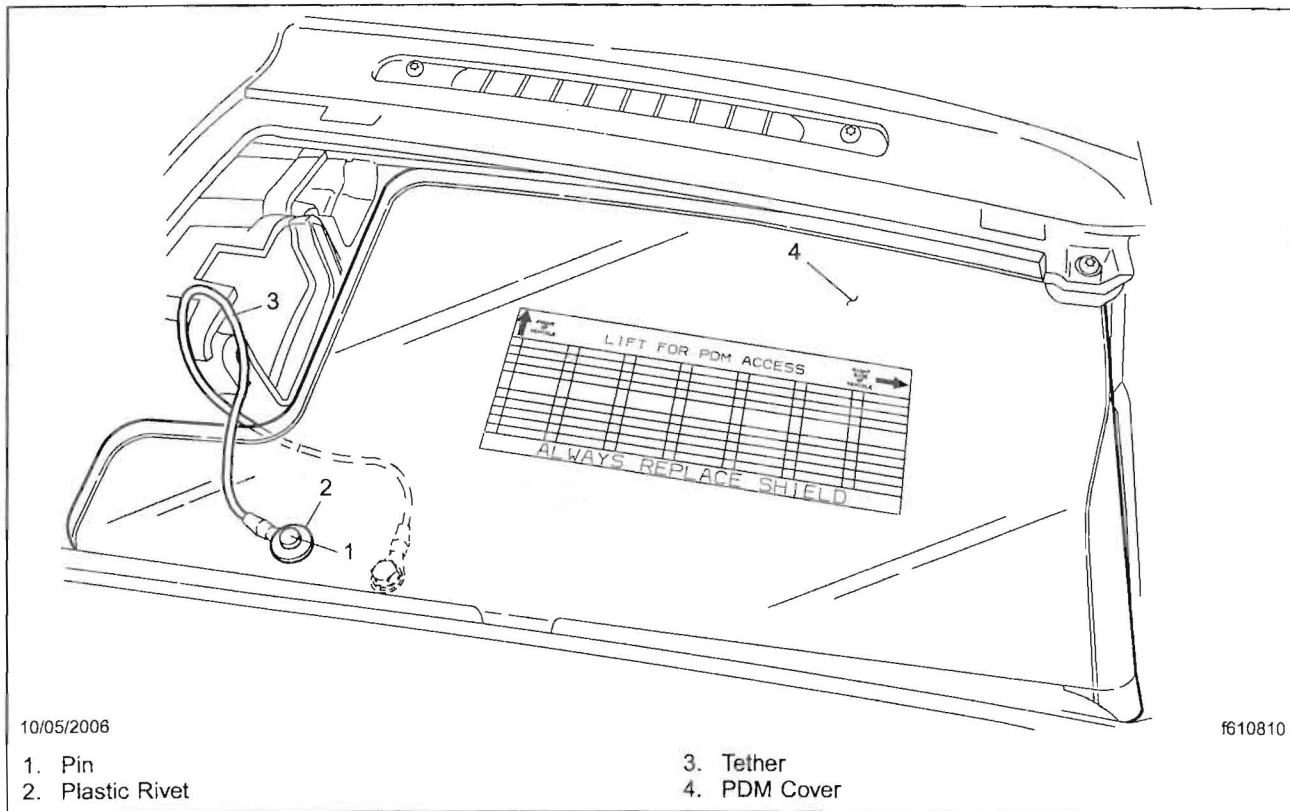


Fig. 5, PDM Cover Installation, Century Class, Columbia, and Coronado Vehicles (left-hand drive)

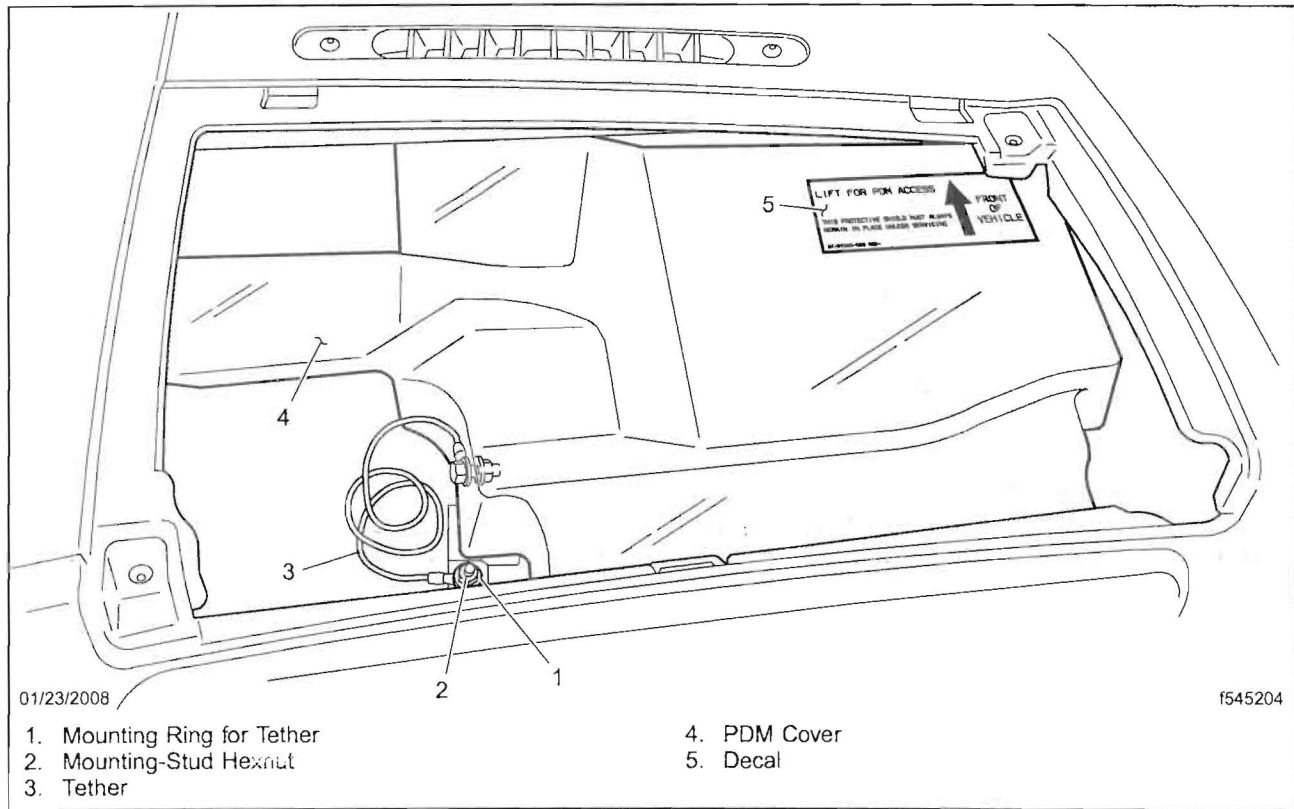


Fig. 6, PDM Cover Installation, Argosy Vehicles (left-hand drive)

## Replacing the PDM

**IMPORTANT:** PDMs must be inspected for water damage first. Replace a PDM only if a water damage is found. Less than 2% of vehicles are expected to require replacement of the PDM.

**NOTE:** The replacement PDM does not come with relays and fuses; the relays and fuses must be transferred from the old PDM to the new PDM. *It is necessary to install the new cover from the recall kit on replacement PDMs.*

The following panel-removal instructions do not apply to right-hand drive vehicles. For these vehicles, it is necessary to remove only the electrical (PDM) cover, the upper left dash panel, and the HVAC panel. These should already be removed at this point. See Fig. 2. Go to step 2.

1. Remove the necessary dash panels to gain access to the top and bottom of the PDM. See Fig. 9.
  - 1.1 If not already done, remove the electrical (PDM) cover, the right-hand upper dash cover, and the HVAC panel and the interior HVAC seal.
  - 1.2 Remove the dash trim cap to gain access to the fasteners that hold the upper dash assembly (center panel) in place.
  - 1.3 Remove the fasteners that hold the console cover assembly in place.
  - 1.4 Move the console cover assembly outward to gain access to the lower fasteners that hold the right-hand upper dash assembly panel in place.

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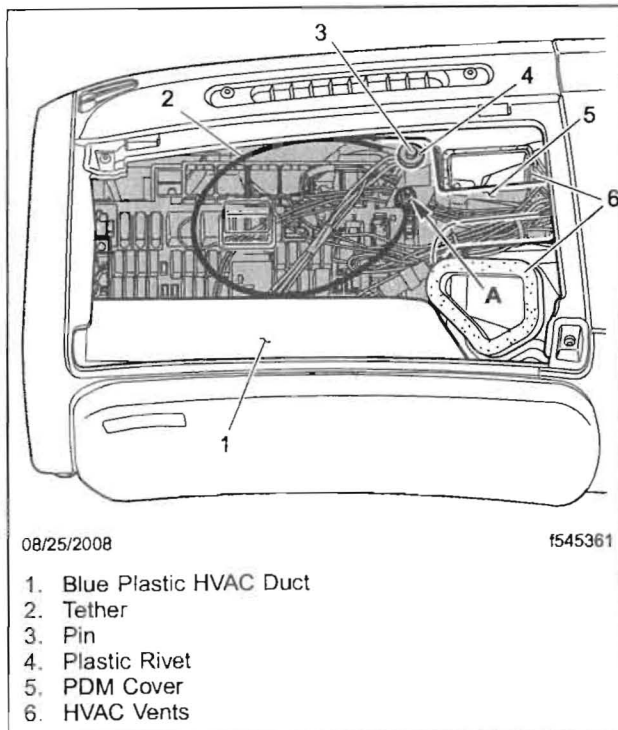


Fig. 7, PDM Cover Installation (right-hand drive vehicles)

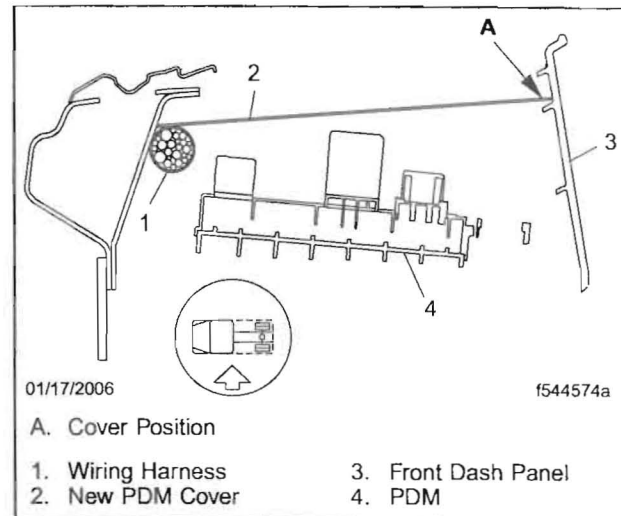


Fig. 8, Cross-Section View of Installation, Century Class, Columbia, and Coronado Vehicles (left-hand drive)

- 1.5 Remove, as necessary, any fasteners along the right-hand windshield vents that hold the right-hand upper dash assembly in place.
- 1.6 If not already done, remove the right upper dash assembly to gain access to the bottom of the PDM.
2. Remove the old PDM from the dash.
3. Install the new PDM in the dash.
  - 3.1 *For left-hand drive vehicles:* Tilt the new PDM board into the dash so the tabs at the rear edge (facing away from you) fit into the slots in the dash assembly, then fit the holes in the front edge (facing toward you) over the mounting studs.  
*For right-hand drive vehicles:* Tilt the new PDM board into the dash so the tabs at the front edge (facing toward you) fit into the slots in the dash assembly, then fit the holes in the front edge (facing away from you) over the mounting studs.
  - 3.2 *For left-hand drive vehicles:* Install the hexnut and washer on the right mounting stud for the PDM.  
*For right-hand drive vehicles:* Install the hexnut and washer on the left mounting stud for the PDM.
4. Clean any corrosion from the wiring connections.
5. As previously marked, connect all the wiring.
6. Install the sockets for the relays by pushing them up from the bottom of the PDM.

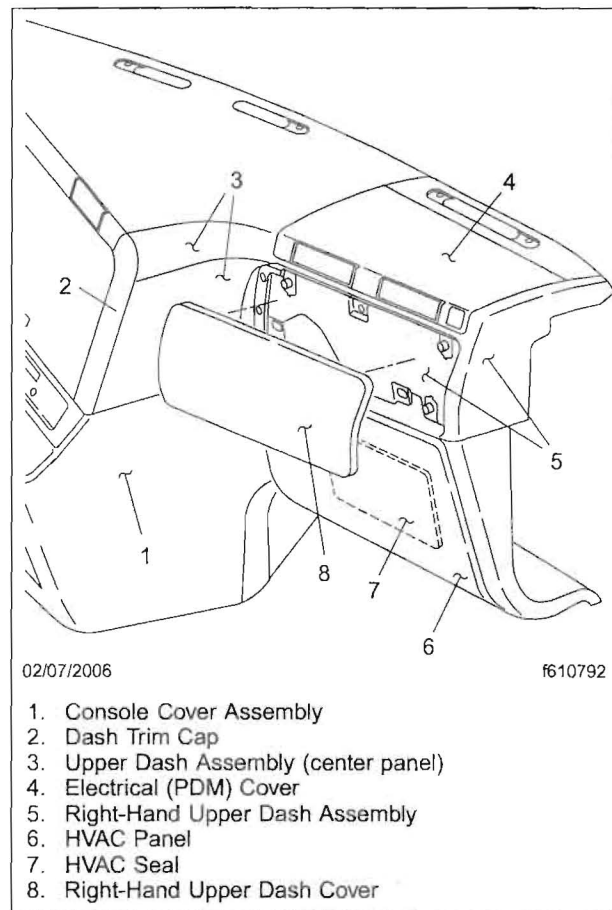


Fig. 9, Dash Panels (left-hand drive shown)

NOTE: The following procedure applies to only left-hand drive vehicles. For right-hand drive vehicles, go to the heading "Installing the New PDM Cover."

7. Install the dash panels as follows.

NOTE: Before installing each dash panel, make sure the speed clips align with the holes in the dash. Install all dash screws and tighten to 30 lbf·in (340 N·cm).

- 7.1 Install the right-hand upper dash assembly.
- 7.2 Install the HVAC seal.
- 7.3 Install the HVAC panel.
- 7.4 Install the fasteners for the console cover assembly.
- 7.5 Install the upper dash assembly (center panel).
- 7.6 Install the right upper dash cover.
- 7.7 Install the dash trim cap.

8. Go to the heading "Installing the New PDM Cover" in these work instructions.