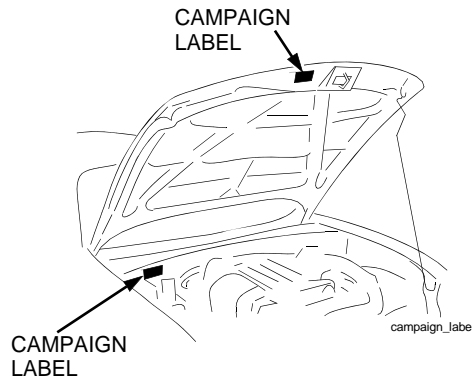


**A. VEHICLE INSPECTION PROCEDURE**

1. Verify that the vehicle is within the following ranges:
  - Year Range (2010) Model (Mazda3) Produced (October 7, 2008-April 10, 2009)
  - VIN Range: JM1 BL\*\*\*\* A1 100120-148098
  - If the vehicle is within the above range, proceed to step 2.
  - If the vehicle is not within the above range, return the vehicle to the customer or inventory.
2. Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect vehicle for a Campaign Label **5409D** attached to the vehicle’s hood or bulkhead. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

**NOTE:** Verify Recall number as the vehicle may have multiple Recalls.



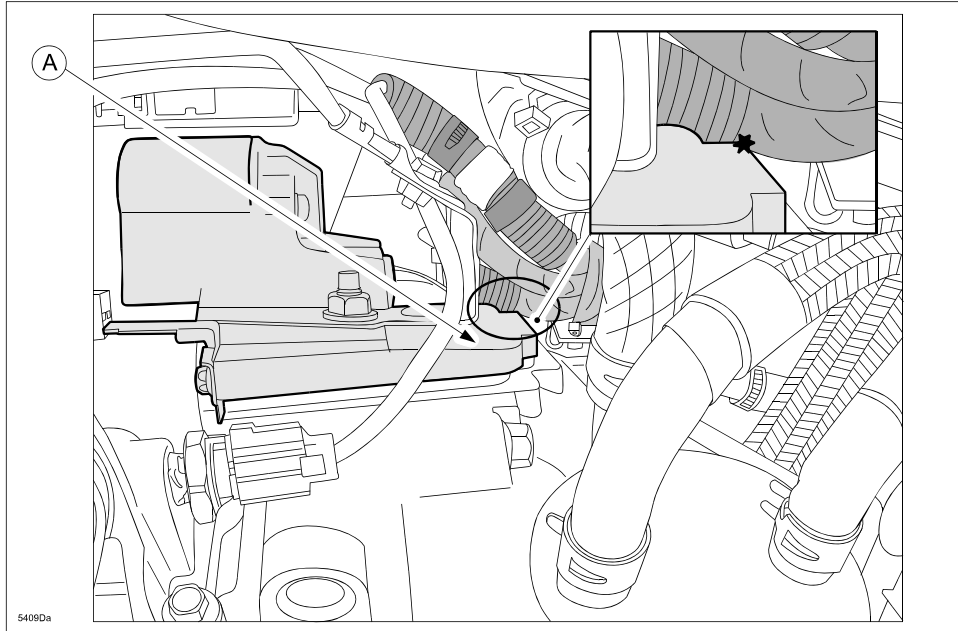
**eMDCS System - Warranty Vehicle Inquiry Results**

| If eMDCS displays:     | Campaign Label is: | Action to perform:   |
|------------------------|--------------------|--|
| 5409D OPEN             | Present            | Contact the Mazda Corporate Dealer Assistance Group at (877) 727-6626 to update vehicle history. |
|                        | Not present        | Proceed to "B. REPAIR PROCEDURE".  |
| 5409D CLOSED           | Present            | Return vehicle to inventory or customer.   |
|                        | Not present        | Proceed to "C. CAMPAIGN LABEL INSTALLATION". Complete a label and apply to vehicle’s bulkhead.   |
| 5409D is not displayed | Does not apply     | Recall does not apply to this vehicle. Return vehicle to inventory or customer.                  |

**B. REPAIR PROCEDURE**

**CONCERN**

The emission harness may contact the engine starter housing (A) causing damage to the harness, and in some rare cases, the damage may cause the emission harness wiring to short to ground. This shorting to ground will cause the MIL to illuminate and / or driveability concerns.



VIEWED FROM UNDERNEATH THE VEHICLE (LOOKING UP) WITH UNDERCOVER REMOVED

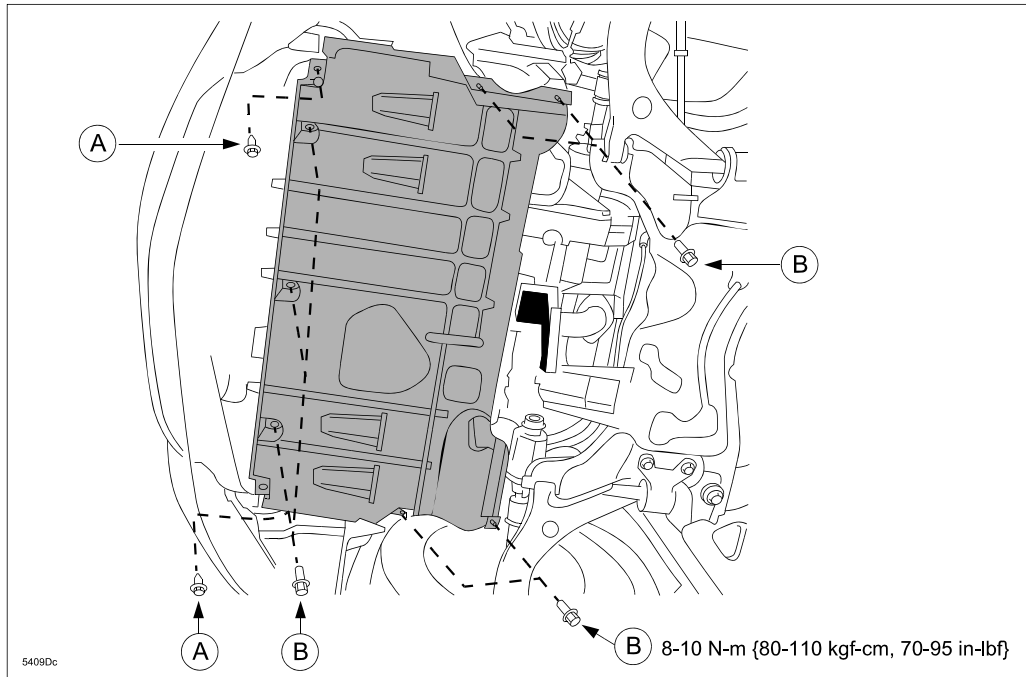
**NECESSARY PARTS**

The installation procedure and parts differ depending on the type of transmission the vehicle is equipped with. Please verify you have the correct parts for the transmission type, and then follow the proper installation instructions.

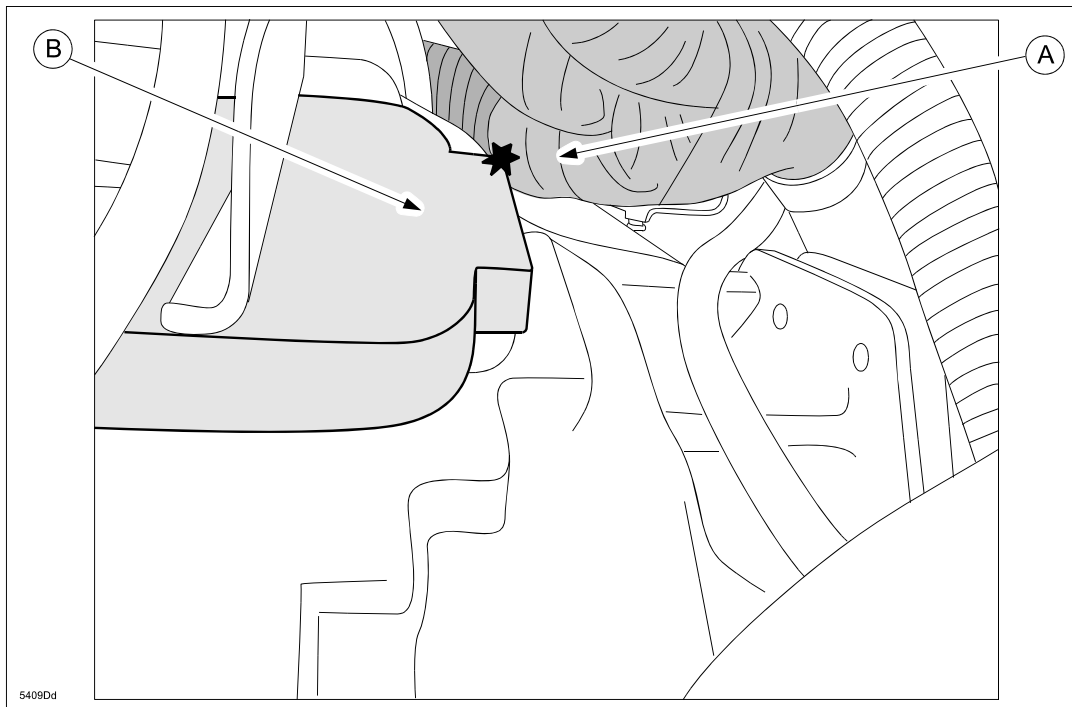
| AUTOMATIC TRANSMISSION PARTS SET<br>NUMBER 0000-99-HRK -AT   | MANUAL TRANSMISSION PARTS SET<br>NUMBER 0000-99-HRK -MT  |
|--|--|
| (1) 25MM PROTECTOR CLIP  | (1) 22MM PROTECTOR CLIP  |
| (1) SPACER   | (1) RUBBER PAD   |
| <p style="text-align: center;">AT</p> <p style="text-align: center;">25</p> <p style="text-align: left; font-size: small;">5409Dba</p> | <p style="text-align: center;">MT</p> <p style="text-align: center;">22</p> <p style="text-align: left; font-size: small;">5409Dbb</p> |

**PROCEDURE "A" - HARNESS INSPECTION**

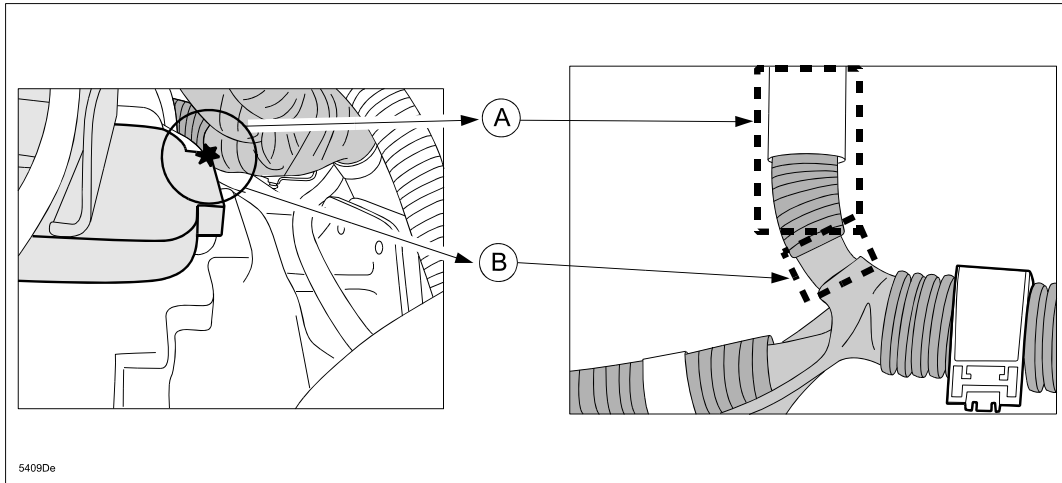
1. Lift vehicle on hoist to access the undercover.
2. Remove the fasteners (A) and bolts (B) to remove the undercover from the vehicle.



3. Carefully inspect the harness (A) in the area closest to the engine starter housing (B).  
DOES THE HARNESS TOUCH THE ENGINE STARTER HOUSING?
  - YES – Go to next step.
  - NO – Go to PROCEDURE "B".



4. Inspect the vehicle's harness and compare to the illustration below to determine procedure.
- Starter contacts area of corrugated sheath (A) – Go to PROCEDURE "B".
  - Starter contacts area of tape (B) with no corrugated sheath – Go to PROCEDURE "C".



**PROCEDURE “B” – EMISSION HARNESS PROTECTOR CLIP / SPACER INSTALLATION**

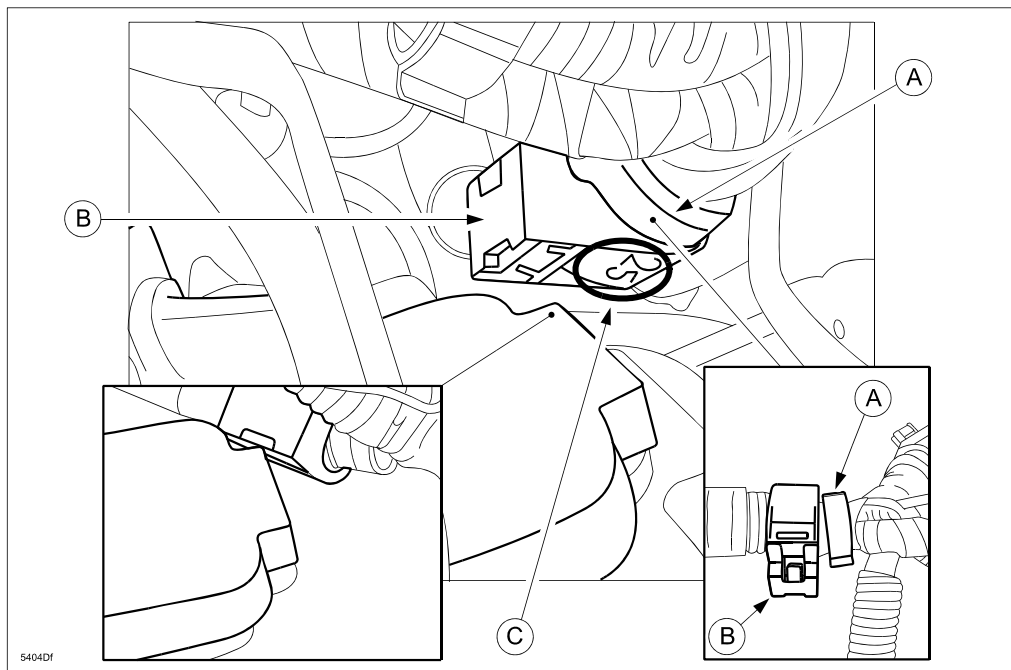
**NOTE:** The installation procedure and parts differ depending on the type of transmission the vehicle is equipped with. Please verify you have the correct parts for the transmission type, and then follow the proper installation instructions.

**VEHICLES WITH AUTOMATIC TRANSMISSIONS**

**NOTE:** Some harnesses may be routed very close to the starter housing which could make the following procedures difficult to perform. Refer to PROCEDURE “D” – INCREASING WORK SPACE.

1. Install the spacer (A) on the emission harness by positioning it over harness in area shown, then squeeze together until tight.
2. Install the protector clip (B) on the emission harness by positioning it on the harness as shown, then squeeze the clip together until it snaps.

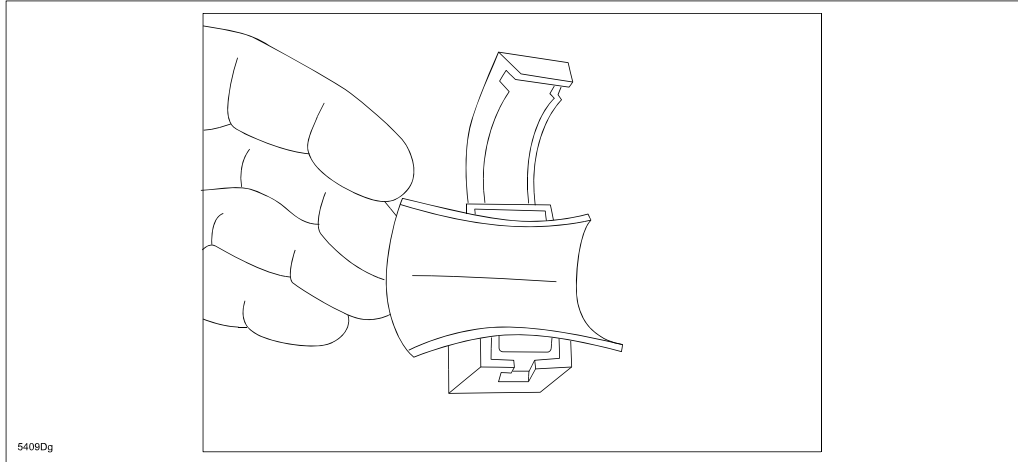
**IMPORTANT:** MAKE SURE TO PLACE PROTECTOR CLIP WITH THE FLAT SIDE SHOWING “25” CLOSEST TO THE STARTER CONTACT AREA (C).



3. Refasten the lower harness anchor if unfastened in PROCEDURE “D” – INCREASING WORK SPACE.

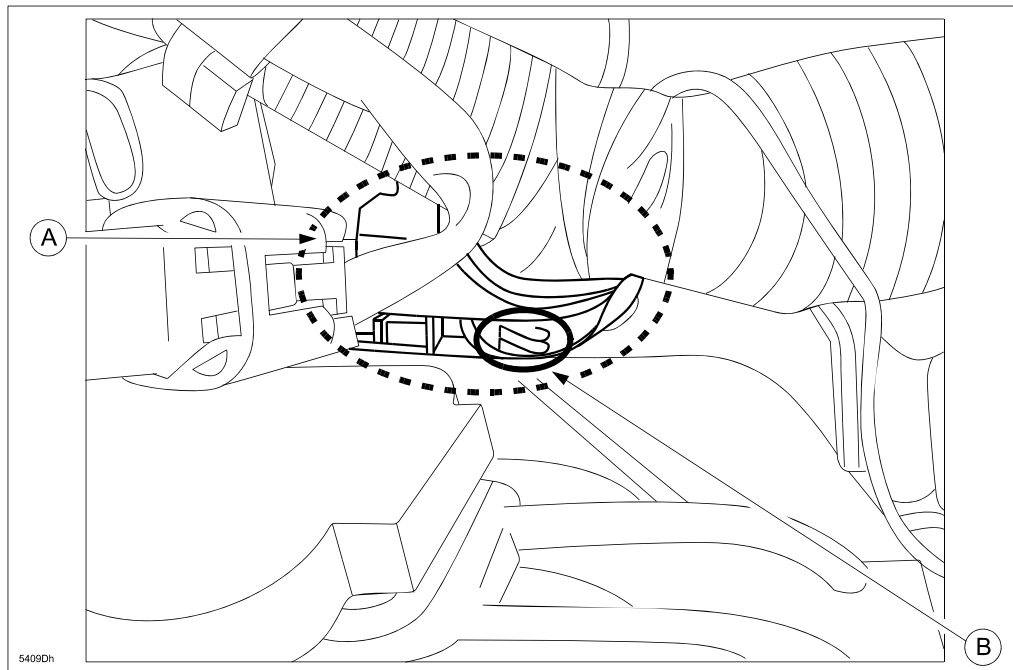
**VEHICLES WITH MANUAL TRANSMISSIONS**

1. Add the rubber pad to the protector clip as shown.



2. Install the protector clip on the emission harness by positioning it on the harness at the point shown (A), then squeeze the clip together until it snaps.

**IMPORTANT:** MAKE SURE TO PLACE PROTECTOR CLIP WITH THE FLAT SIDE SHOWING “22” CLOSEST TO THE STARTER CONTACT AREA (B).



**PROCEDURE “C” – WATERPROOFING HARNESS**

**NOTE:** This procedure prevents water entry if harness tape was damaged by engine starter housing contact.

**IMPORTANT:** IF VEHICLE IS EXPERIENCING MILS, BLOWN FUSES OR DRIVEABILITY CONCERNS THE EMISSION HARNESS WIRING MAY BE WORN THROUGH TO BARE COPPER CONDUCTOR WIRE AND TOUCHING THE ENGINE STARTER HOUSING.

IS THE VEHICLE CURRENTLY EXPERIENCING MILS, DRIVEABILITY CONCERNS, BLOWN FUSES ETC..?

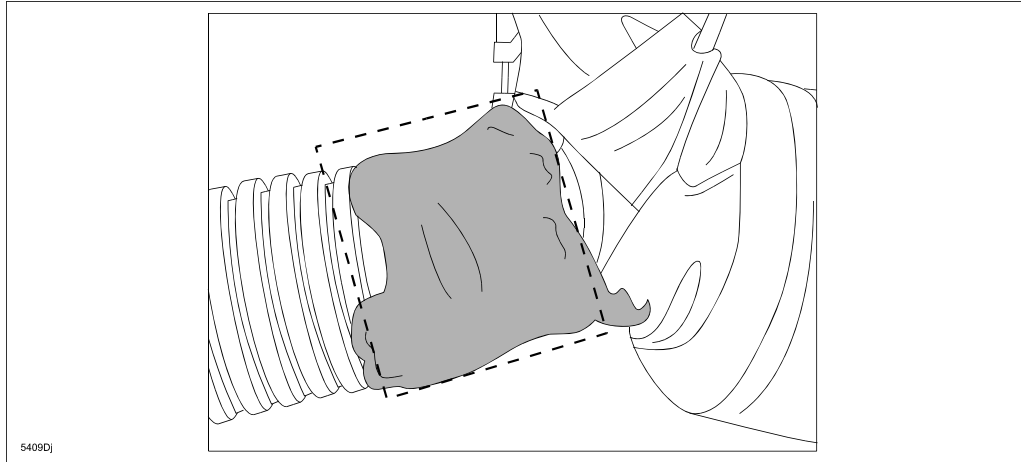
- YES – Carefully inspect the emission harness for damage resulting in bare copper wire contact with engine starter housing. If you confirm wires are shorted, contact the NATIONAL TECHNICAL ASSISTANCE HOT-LINE for further instructions.
- NO – Go to step 1.

**NOTE:** Some harnesses may be routed very close to the starter housing which could make the following procedures difficult to perform. Refer to PROCEDURE “D” – INCREASING WORK SPACE.

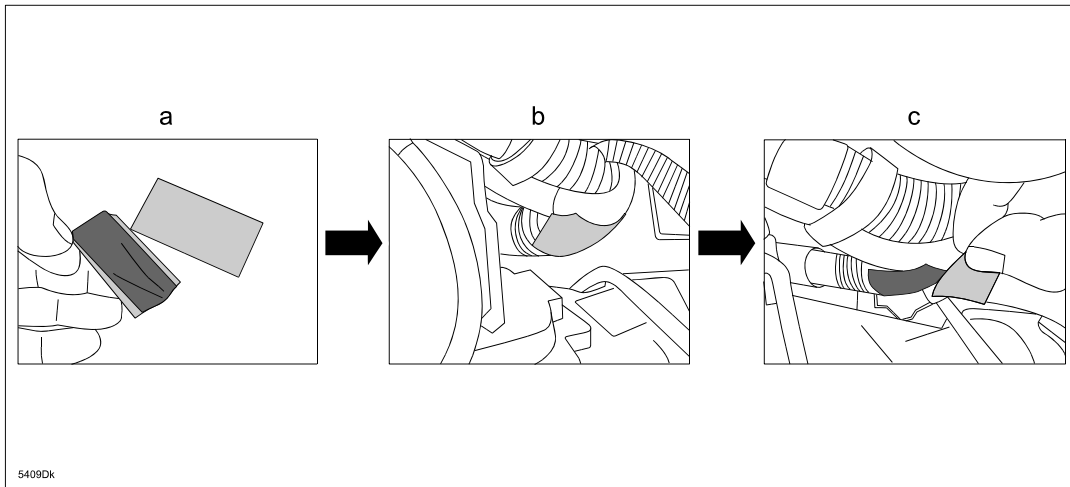
1. Note the area of harness at the engine starter housing contact point (A) to be waterproofed as shown (B).



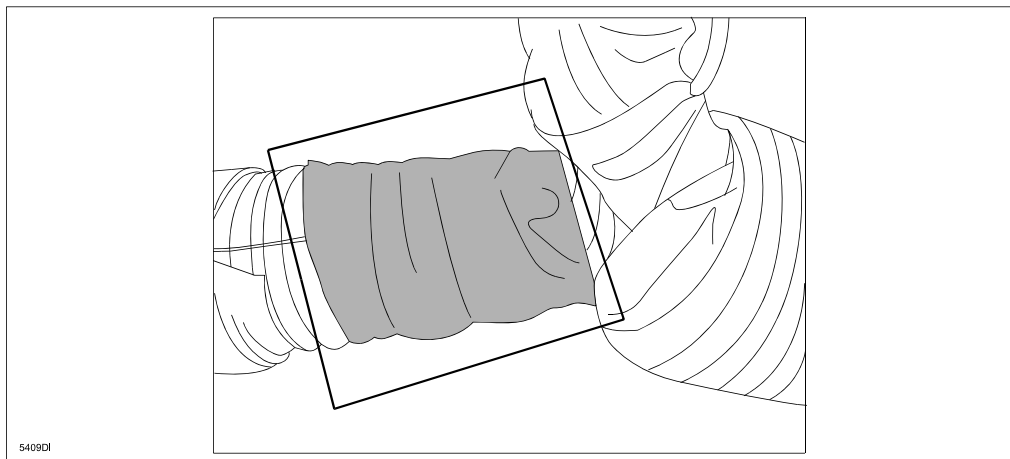
2. Apply butyl tape in this area by following these steps.



- a. Remove the backing paper of one side of the butyl tape (PN 0000-99-TAPE).
- b. Apply butyl tape to contact area of the emission harness.
- c. Remove the remaining paper backing of the butyl tape.

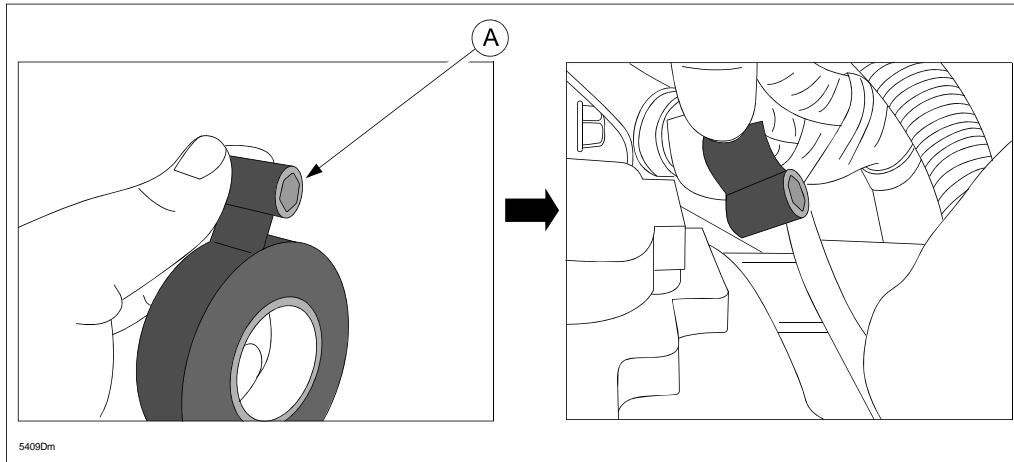


3. Using 35 inches of electrical tape, wrap the harness to completely cover the butyl taped area as shown.





**TIP:** The work space for taping the harness is limited and may be difficult using a full roll of tape. Precutting 35 inches of tape, then wrapping it onto a 9mm or 10mm socket (A), allows easier application of the tape to the harness.

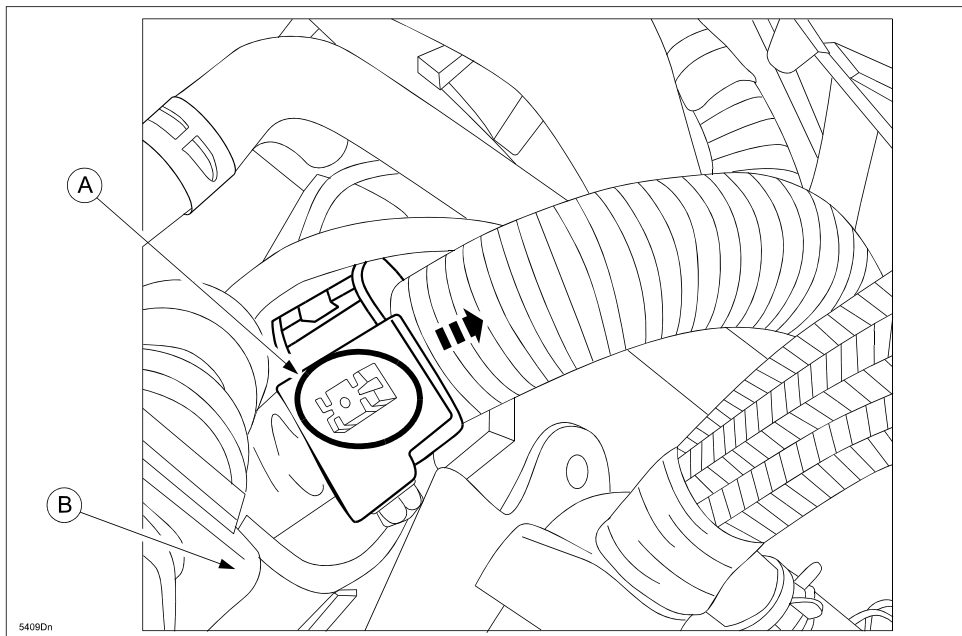


4. Perform PROCEDURE “B” – INSTALL EMISSION HARNESS PROTECTOR CLIPS.

**PROCEDURE “D” – INCREASING WORK SPACE**

**NOTE:** There may be limited space to perform some procedures, especially on vehicles with an automatic transmissions. More work space can be obtained by temporarily releasing the lower harness anchor and moving the harness.

1. Release the anchor (A) of the main emission harness.
2. Pull the harness away from the AT Shifter cable bracket (B) to gain more work space.



**C. CAMPAIGN LABEL INSTALLATION**

1. Fill out a blue "Campaign Label" (9999-95-065A-06) with Campaign No: "5409D", your dealer code, today's date, and affix it to the vehicle's bulkhead or hood as shown in "A. VEHICLE INSPECTION PROCEDURE".

**CAMPAIGN LABEL**

|                         |
|-------------------------|
| CAMPAIGN NO: _____      |
| DEALER CODE: _____      |
| DATE:            /    / |

P/N 9999-95-065A-06

1326b

2. Return vehicle to customer.