

**IMPORTANT SERVICE  
INFORMATION FOR:**

- ✓ SERVICE MANAGER
- ✓ SERVICE ADVISOR
- ✓ TECHNICIAN
- ✓ PARTS DEPARTMENT
- ✓ WARRANTY PERSONNEL

BULLETIN NUMBER:  
**SB19-J-002**

ISSUE DATE:  
**SEPTEMBER 2019**

GROUP:  
**ENGINE**

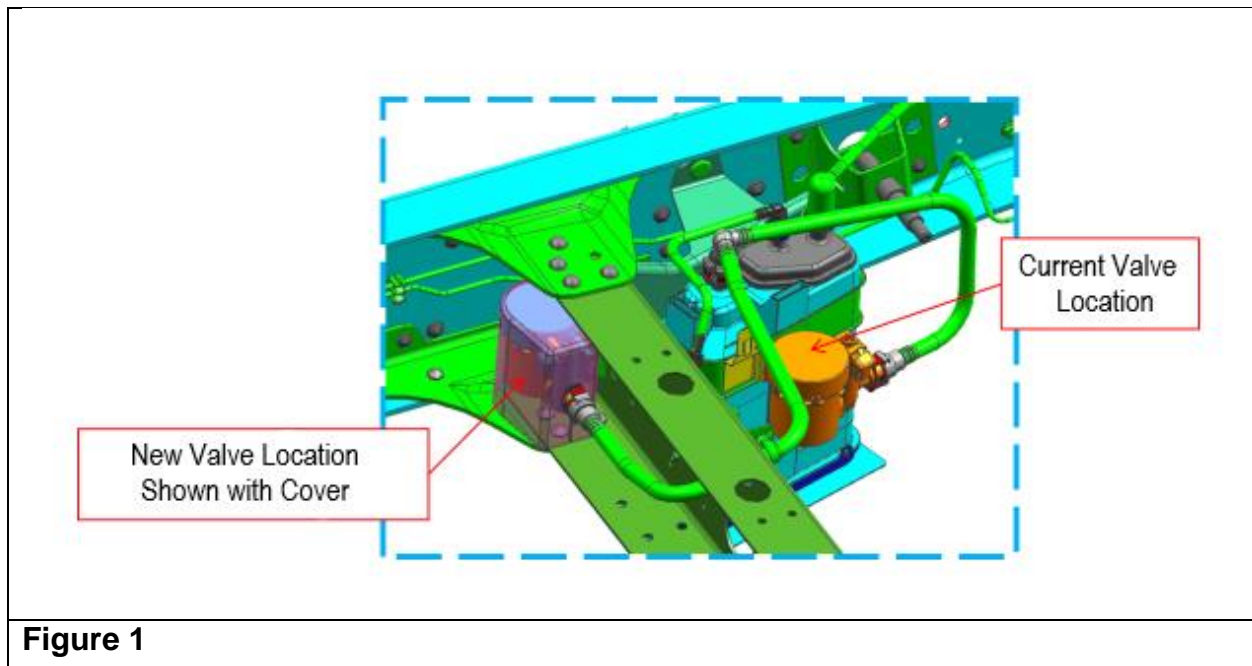
## Evaporative Emission (EVAP) Canister Vent Solenoid Valve Relocation

### AFFECTED VEHICLES

- 2012 – 2019MY Isuzu N-Series Vehicles Built Prior to 1/30/2019 and Equipped with 6.0L Gasoline Engines

### CONDITION

Some customers whose vehicles are operated in dusty type environments, such as farming, sweeping, or off-road type applications, may comment about the illumination of the check engine light, with one or more of the following DTC's set: P0449 (Evaporative Emission Vent Solenoid Valve Control Circuit Low Voltage), P0446 (Evaporative Emission Vent System Performance) and P0455 (Evaporative Emission System Large Leak Detected). Dirt and dust intrusion into the EVAP canister vent solenoid valve may cause this condition. If normal diagnostics for any of the above DTCs determines the Evaporative Emission (EVAP) canister vent solenoid valve has failed, replace the existing EVAP canister vent solenoid valve (the "Valve") with a new assembly. Then cover the valve and relocate it with updated parts using the service procedure in this bulletin. (See Figure 1.)



**Figure 1**

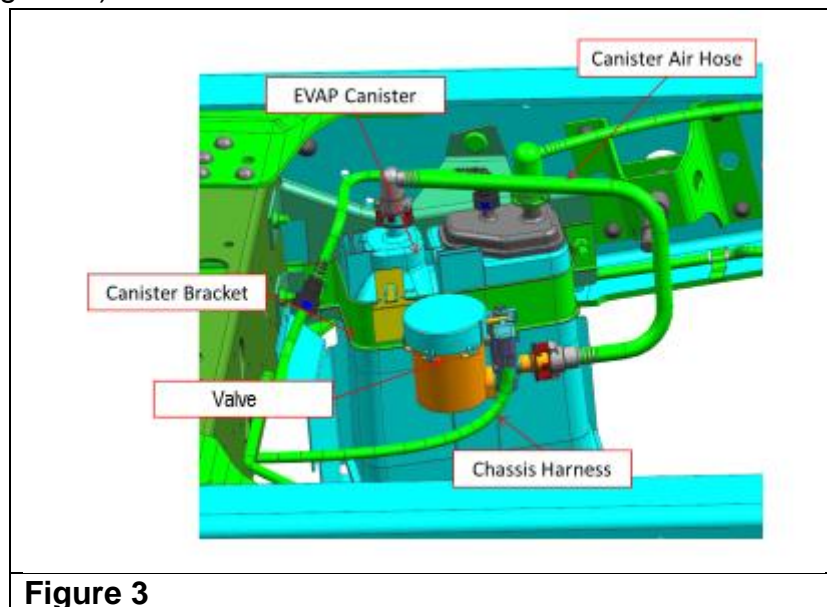
## SERVICE PROCEDURE

1. Disconnect the Chassis Harness connector from the Valve by pushing lightly downward on the red lock tab with a small screwdriver (see Figure 2) and then pushing the release tab to remove the connector.



**Figure 2**

2. Disconnect the Canister Air Hose from the Canister Assembly and the Valve. (See Figure 3.) Discard the hose.



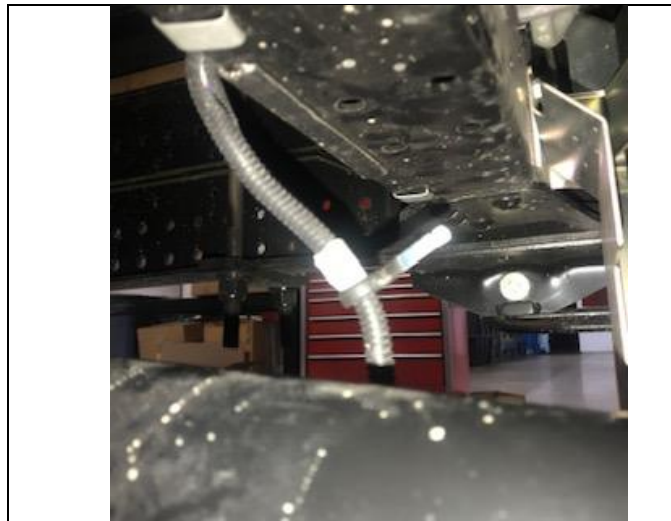
**Figure 3**

3. Remove the Valve from the Canister bracket. (See Figure 4.) Discard the Valve.



**Figure 4**

4. Remove the Clip that holds the Chassis Harness to the Frame Rail. (See Figure 5.) Discard the Clip.



**Figure 5**

5. Disconnect the Fuel Tank Vapor Pipe from the EVAP Canister. (See Figure 6.)



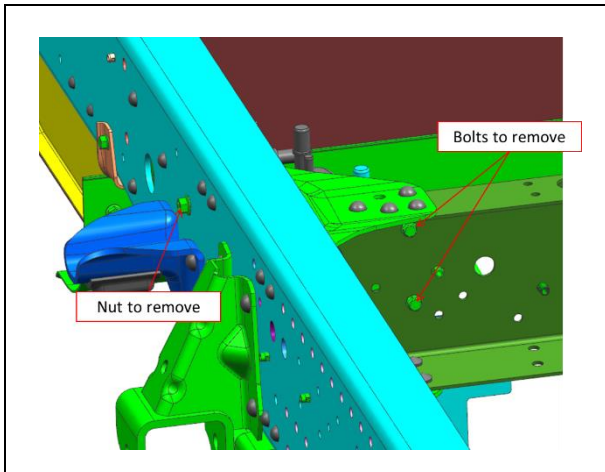
**Figure 6**

6. Disconnect the Purge Hose at the EVAP Canister. (See Figure 7.)



**Figure 7**

7. Remove the EVAP Canister by unscrewing the two (2) EVAP Canister mounting bolts and one (1) nut. (See Figure 8.) Carefully set the EVAP Canister and hardware aside in a safe place for reinstallation later. (See Figure 9.)

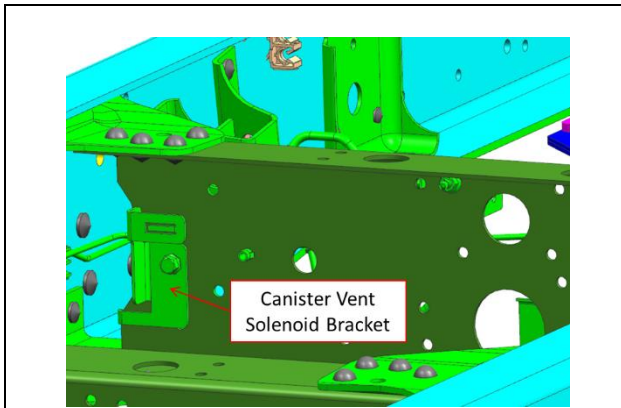


**Figure 8**

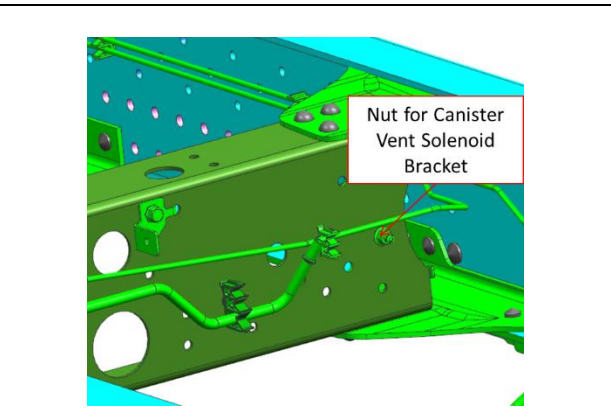


**Figure 9**

8. Install the new Valve bracket using the nut on the cross member as indicated in Figures 10 and 11. Tighten the nut to 22 N·m (16 lb-ft).

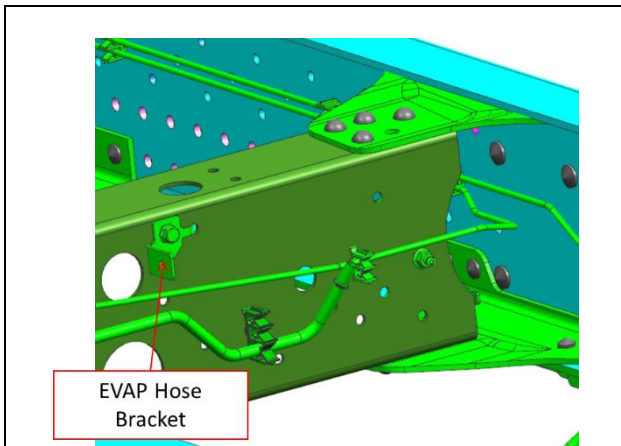


**Figure 10**

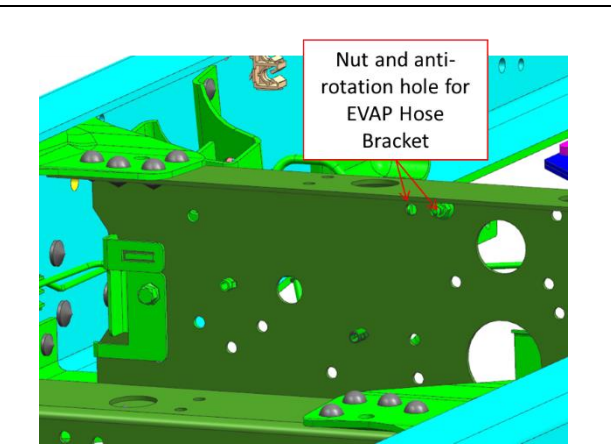


**Figure 11**

9. Install the new EVAP Hose Bracket using the nut for the cross member as indicated in Figures 12 and 13. Tighten the nut to 22 N·m (16 lb-ft).

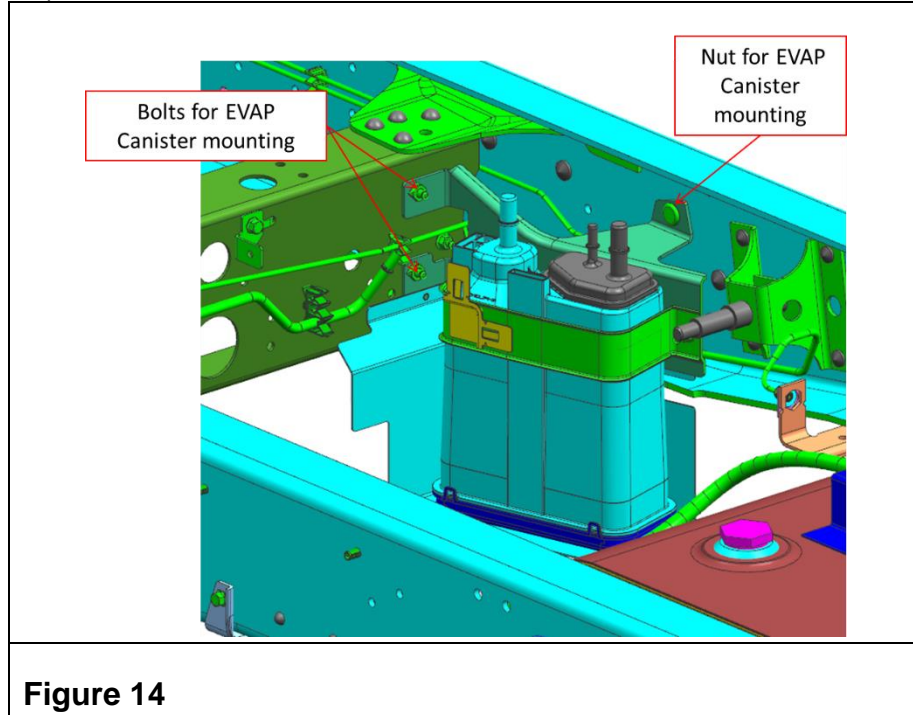


**Figure 12**

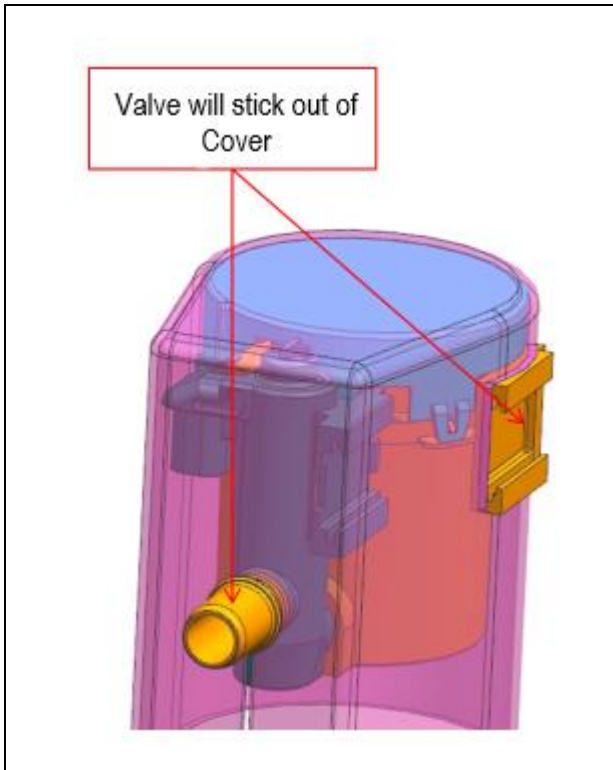


**Figure 13**

10. Reinstall the EVAP Canister using the previously removed hardware. (See Figure 14.) Tighten the two (2) bolts to 18 N·m (13 lb·ft) and the nut to 37 N·m (27 lb·ft).



11. Route the Chassis Harness Valve connector to the rear of the cross member and connect it to the new Valve. Place the new Valve into the Cover as shown in Figures 15 and 16. Note that the Valve Bracket attachment point and the Canister Air Hose Port will stick out of the cover.

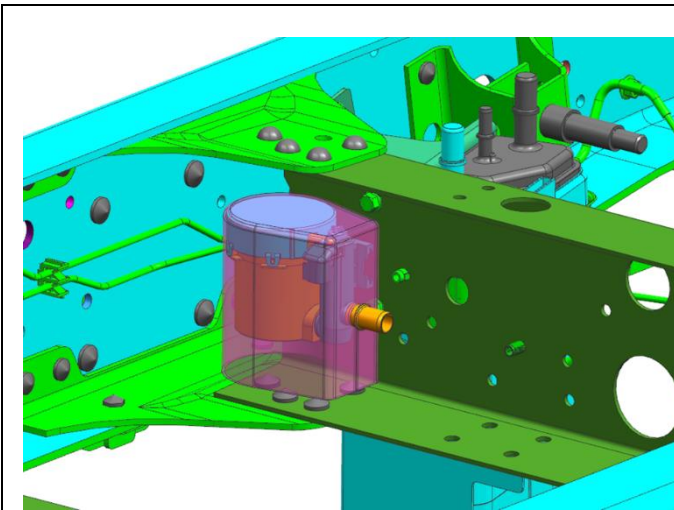


**Figure 15**



**Figure 16**

12. Using the attachment point on the Valve, mount the Valve and Cover assembly to the new Bracket as shown in Figures 17 and 18.

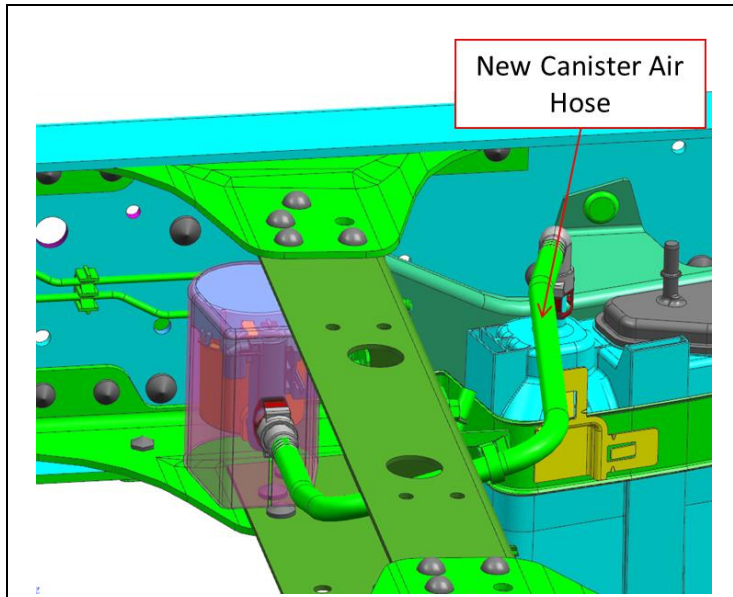


**Figure 17**



**Figure 18**

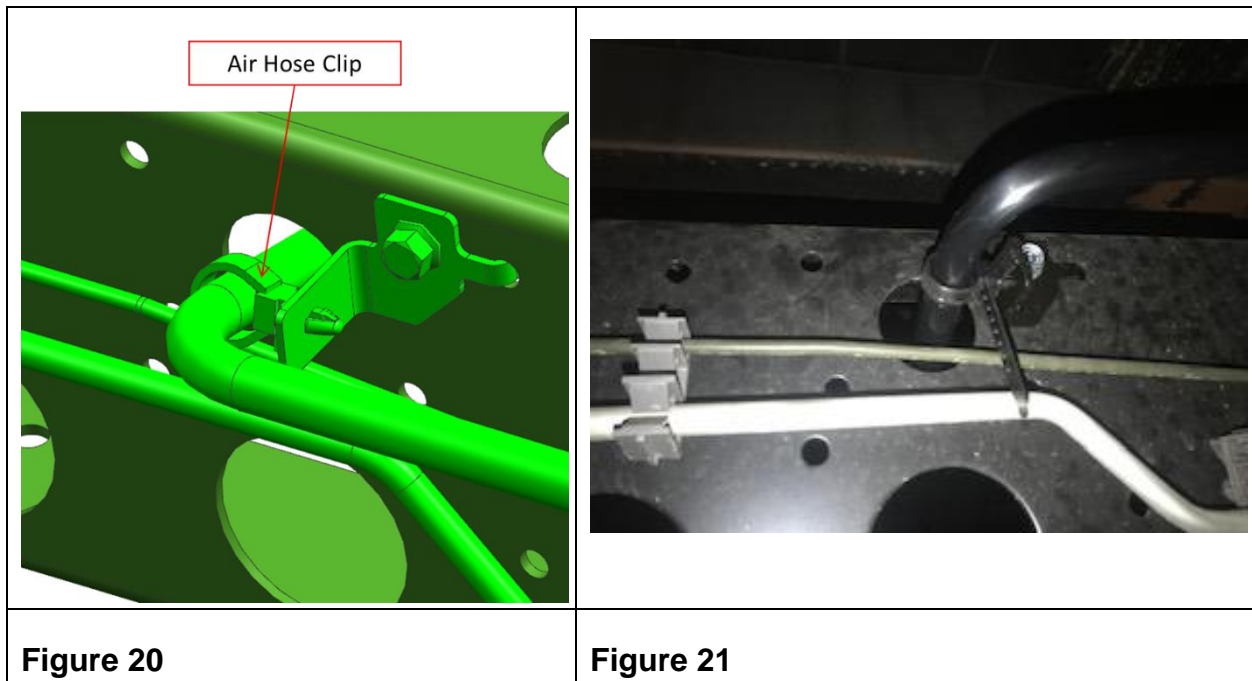
13. Route the new Canister Air Hose from the Valve Port to the Canister Port as shown in Figure 19.



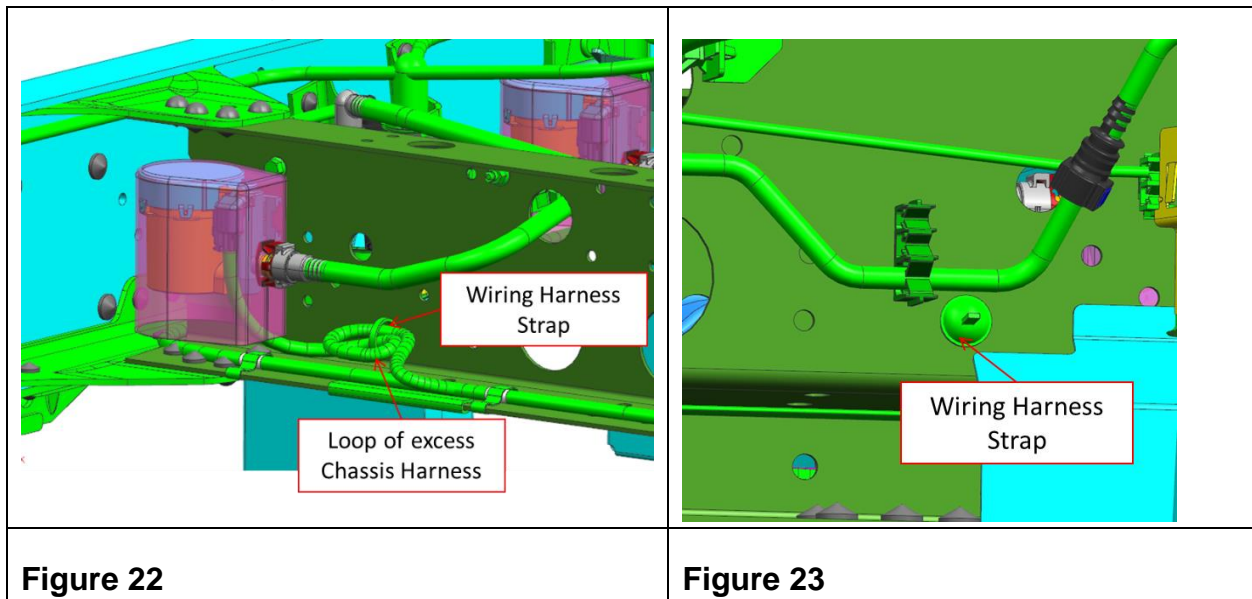
**Figure 19**



14. Attach the new Air Hose Clip to the Bracket and Air Hose as shown in Figures 20 and 21.



15. Coil the excess Chassis Harness into a loop as shown in Figure 22. Secure the loop of Harness to the cross member with the new Wiring Harness Strap as shown in Figures 22 and 23.



16. Reconnect the Fuel Tank Vapor Pipe and Purge Hose to the Canister Assembly. (See Figure 24.)



**Figure 24**

17. Ensure all Evaporative Emission-related DTC's are cleared before returning the vehicle to the customer.

**PARTS INFORMATION**

<b>Part Number</b>	<b>Description</b>	<b>QTY</b>
8-97540-101-0	HOSE ASM;EVAP EMIS CNSTR A/CL	1
8-97533-849-0	BRACKET;EVAP EMIS CNSTR	1
8-97536-803-0	BRACKET;EVAP EMIS HOSE	1
8-97807-385-0	CLIP;EVAP EMIS CNSTR PURGE SOL VLV HOSE	1
8-97533-850-0	COVER;EVAP EMIS CNSTR VENT SOL VLV	1
0-28650-820-0	BOLT;HEX-HD,FLANGE,R,A POINT	2
0-91180-108-0	NUT;HEX,FLANGE	2
8-15178-889-0	STRAP;CHAS RR WRG HARN	1

## WARRANTY INFORMATION

The following labor operation information is provided for warranty claim submission and applicable to vehicles still covered by the New Vehicle Warranty.

Labor Code	Description	Labor Time
J6441	Evaporative Emission Canister Vent Valve Replacement  *ADD: Relocate Evaporative Emission Canister Vent Valve	See Labor Time Guide  0.2

\*This add time may only be used once. The add time cannot be applied to future claims if the valve has already been relocated.