



# Technical Service Bulletin

GROUP  
CAMPAIGN

NUMBER  
21-01-036H

DATE  
AUGUST, 2021

MODEL(S)  
SONATA HYBRID  
(YF HEV)

**SUBJECT:** AUXILIARY CANISTER INSTALLATION  
(SERVICE CAMPAIGN 964)

## ★ IMPORTANT

### \*\*\* Retail Vehicles \*\*\*

Dealers must perform this Service Campaign whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's Vehicle Information Screen (VIS) via WEBDCS to identify open Campaigns.

**Description:** 2011-2015MY Sonata Hybrid (YF HEV) vehicles Onboard Refueling Vapor Recovery (ORVR) system may exceed its capacity in certain situations.

This bulletin provides the procedure to install an Auxiliary Canister to increase the ORVR system capacity.

There are no drivability concerns associated with this condition.

**Applicable Vehicles:** Certain 2011-2015MY Sonata Hybrid (YF HEV)

### Warranty Information:


Model	Op. Code	Operation	Op. Time	Causal P/N	Nature Code	Cause Code
SONATA HYBRID (YF HEV)	10D017R0	ADDITIONAL MOUNTING OF AUXILIARY CANISTER	0.4 M/H	31410-4R511QQH	I3A	ZZ3

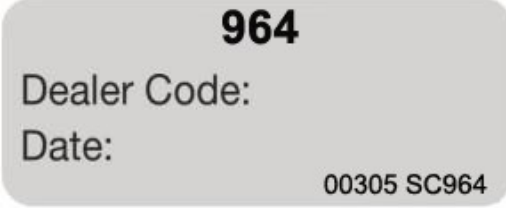
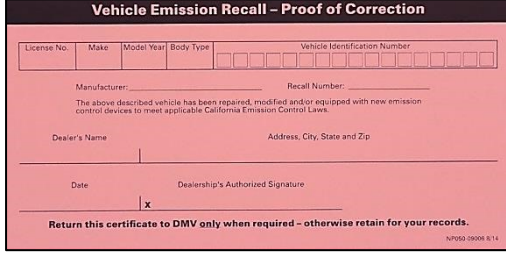
**NOTE 1:** Submit Claim on Campaign Claim Entry Screen.

**NOTE 2:** If a part that is not covered by this campaign is found in need of replacement while performing Service Campaign 964 and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

**SUBJECT: AUXILIARY CANISTER INSTALLATION (SERVICE CAMPAIGN 964)**

**Parts Information:**

Part Number	Description	Photo	Remarks
31410-4R511QQH	AUXILIARY CANISTER		CABLE TIE (2 units) included

Part Name	Part Number	Qty.	Figure	Remarks
Campaign Sticker	00305-SC964	1		Apply to all vehicles regardless of state
Vehicle Emission Recall-Proof of Correction Card	NP050-09006	1		Order only for States: CA, CT, DE, MA, MD, ME, NJ, NY, OR, PA, RI, VT, WA

**NOTE:** Dealers have been sent 10 campaign stickers for the start of this campaign. Additional can be ordered through its facing PDC.

**NOTICE**

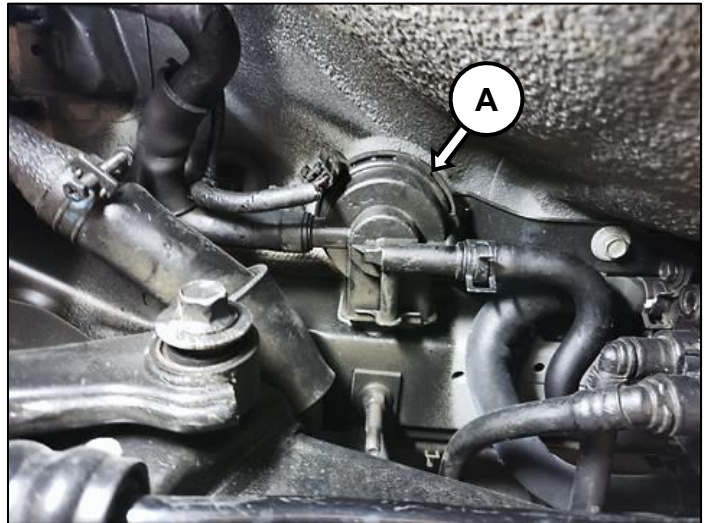
For vehicles registered in certain states, a **VEHICLE EMISSION RECALL – PROOF OF CORRECTION CARD** must be filled out by the service manager, and given to the vehicle owner upon completion of the campaign. A **Campaign Sticker** must also be filled out and placed on the hood of the vehicle. Refer to pages 8 and 9 for more details.

For all vehicles, a **Campaign Sticker** must be filled out and placed on the hood of the vehicle.

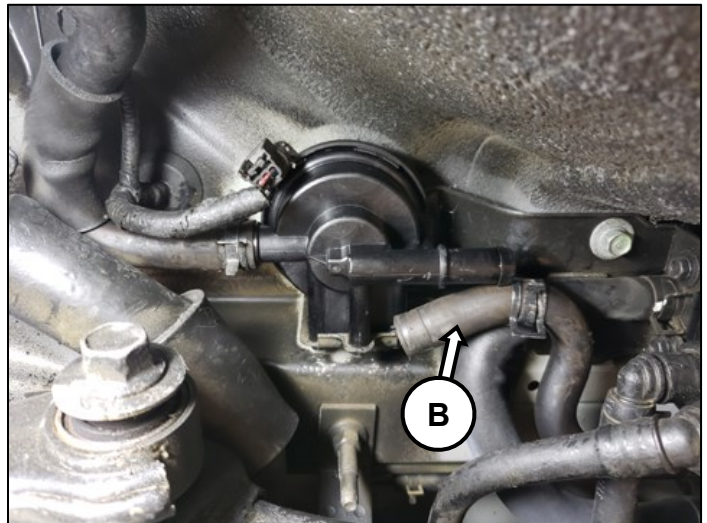
**Service Procedure:**

1. Lift up the vehicle on a hoist.

Locate the Natural Vacuum Leak Detection (NVLD) sensor (A).



2. Release the hose clamp and disconnect NVLD vapor hose (B) which is connected to the EVAP canister.

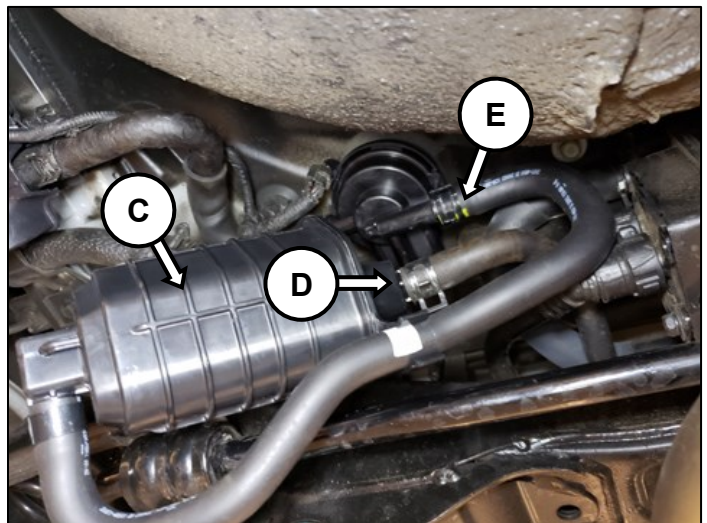


3. Install the auxiliary canister (C) as followed.

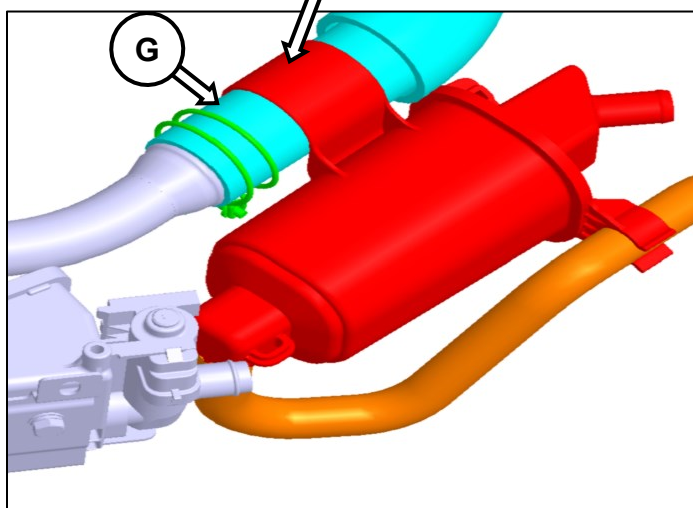
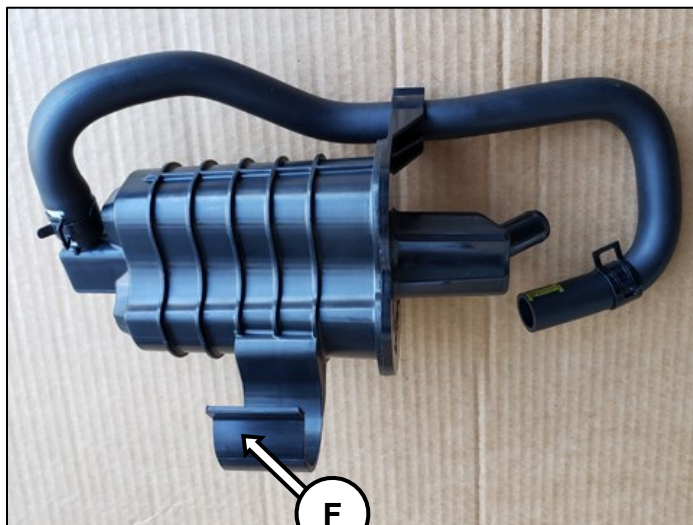
Connect the hose disconnected from the NVLD to the auxiliary canister nipple (D).

Connect the auxiliary canister hose (E) to the NVLD hose nipple.

Secure the hose connections with spring hose clamps.

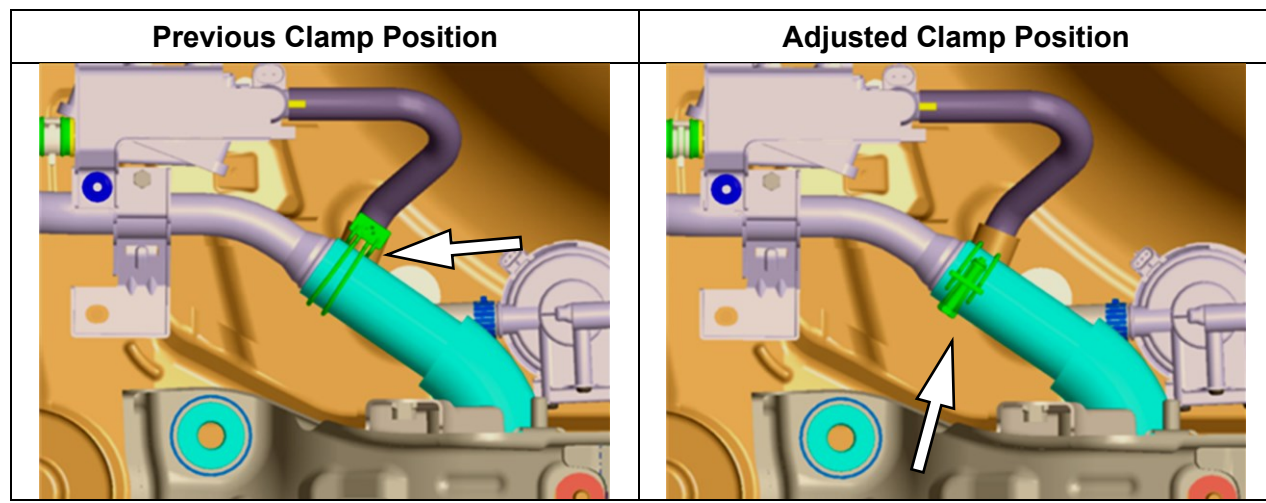


4. Affix the auxiliary canister hook (F) to the fuel fill pipe (G).

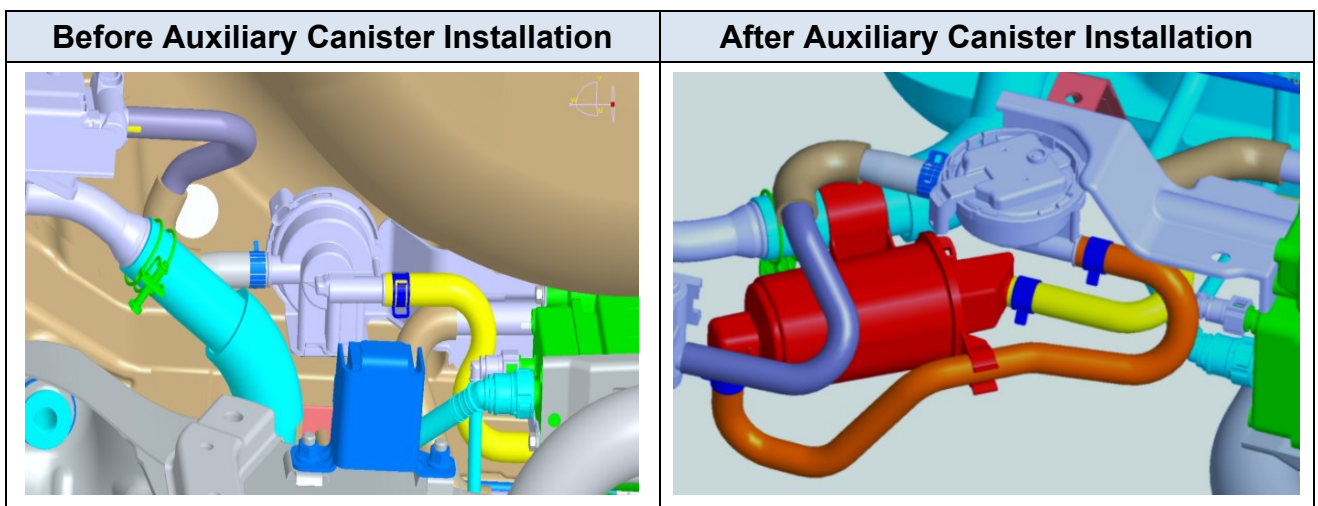
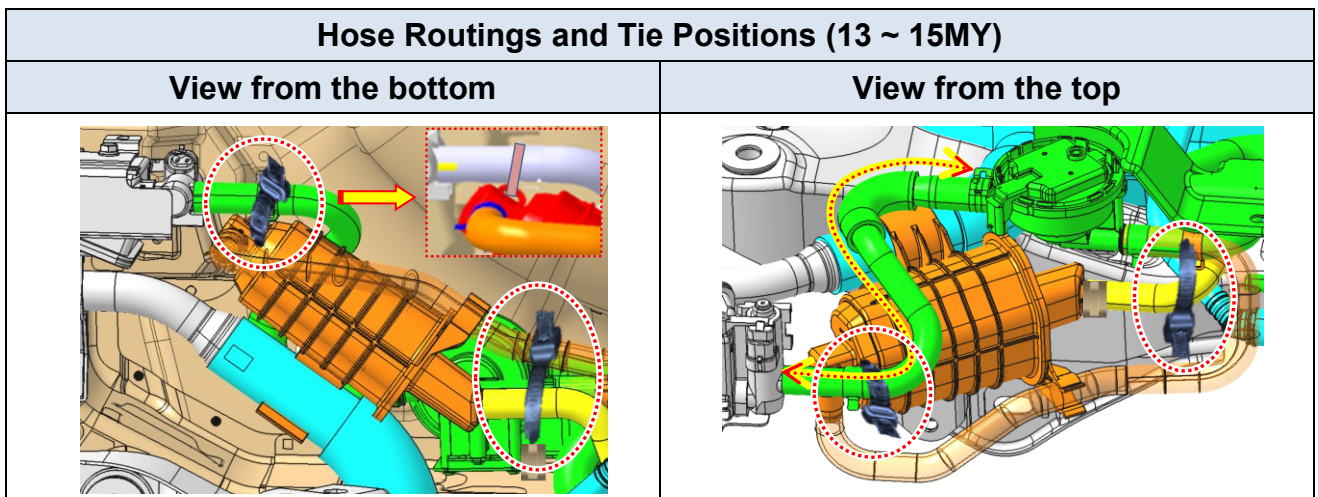
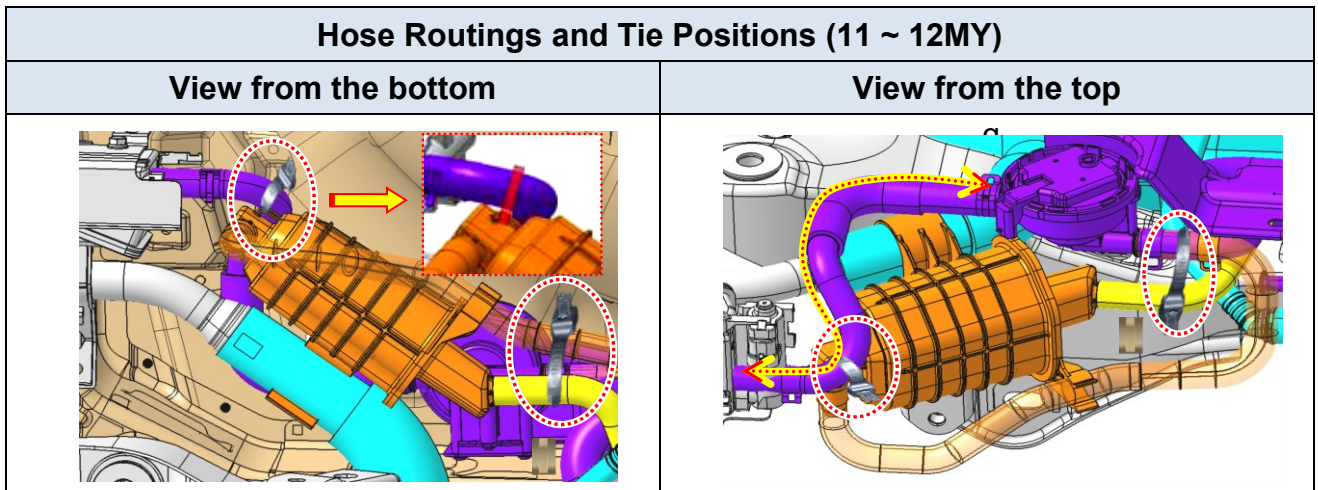


**CAUTION**

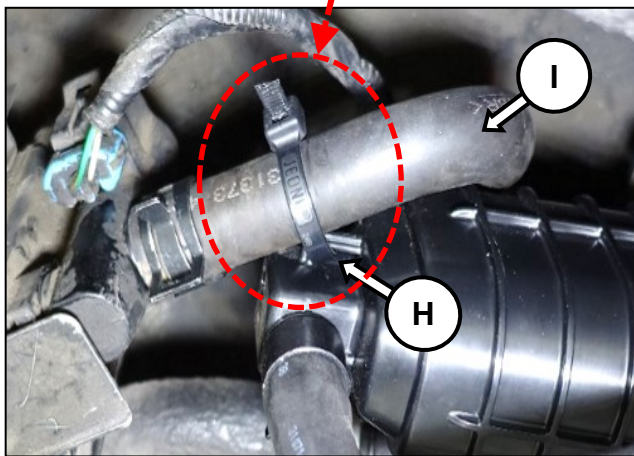
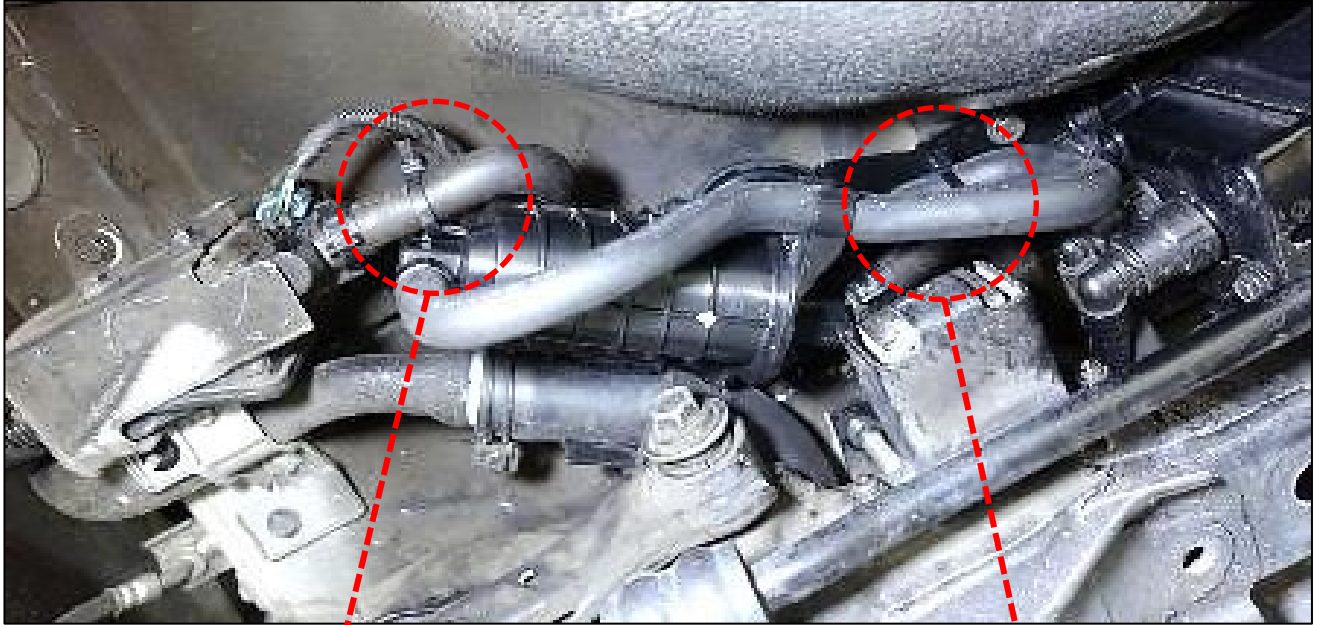
When mounting the auxiliary canister, if there is any interference with fuel filler hose clamp, adjust the fuel filler hose clamp position by rotating 90 degrees as shown below.  
**Tightening Torque: 5.8 ~ 7.2 lb·ft (0.8 ~ 1.0 kgf·m, 7.8 ~ 9.8 N·m)**



Vapor hose routing varies by vehicle model year. Refer to the figures below for appropriate hose routings and securing with cable ties.



5. After mounting the auxiliary canister, secure auxiliary canister and hoses with cable ties.



Put a cable tie through an eyelet (H) of the auxiliary canister and tie to the air filter vent hose (I).

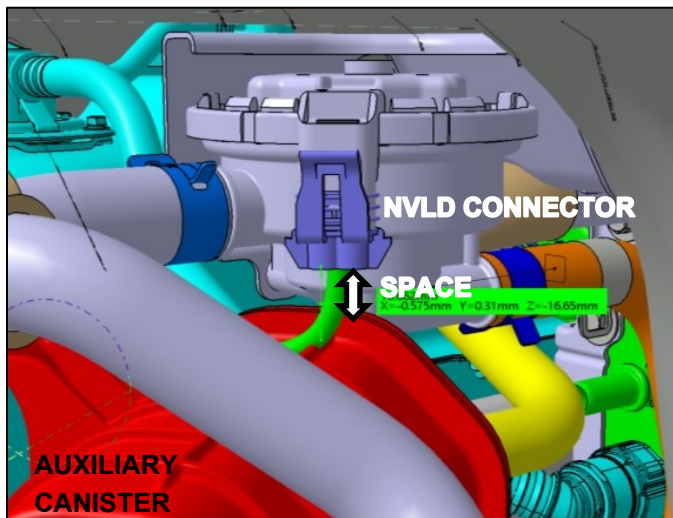


Secure NVLD hose and auxiliary hose together with a cable tie.

**CAUTION**

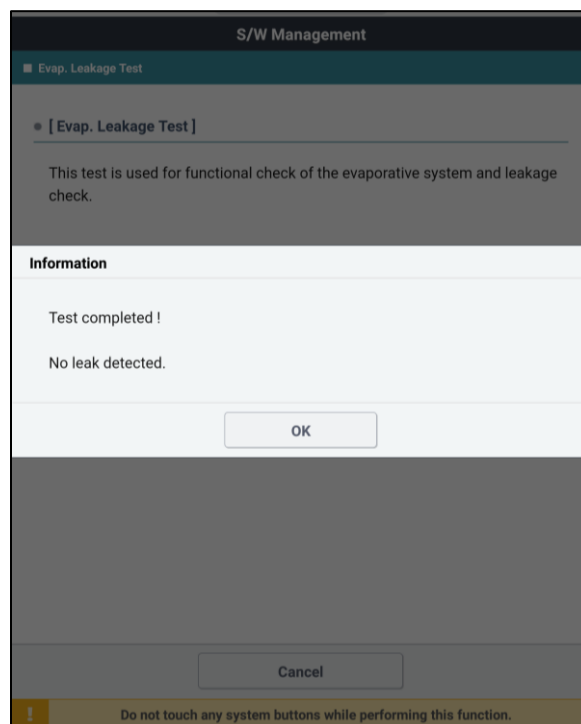
- Secure hoses with cable ties in two places for proper mounting without movement. Auxiliary canister eyelet must be utilized as one of the cable ties application location.
- Tighten cable ties snugly. Avoid over tightening to minimize deformation of hoses.
- Ensure that auxiliary canister isn't pressing against NVLD wiring pig tail connector.

6. There should be some space between the NVLD connector and the auxiliary canister.
- Interference may occur if cable ties are tightened excessively. NVLD may malfunction and DTC may trigger.
- Ensure that auxiliary canister isn't pressing against NVLD wiring and pig tail connector.



7. **GDS Evap Leakage Test:**
8. Follow GDS instructions and perform GDS Evap Leakage Test to confirm parts and hoses are installed properly.

S/W Management	
• EVAP Leakage Test	
Purpose	To check the evaporative system and fuel leakage when evaporative system related repair is done or component is replaced.
Enable Condition	1. Engine Idle 2. No DTC 3. Fuel Level : 20-70% 4. Battery voltage greater than 11V 5. 2 Min after the engine start 6. Coolant Temperature : 80°C(176°F)
Concerned Component	Purge Control Solenoid Valve(PCSV), Canister Close Valve(CCV), Fuel Tank Pressure Sensor(FTPS), Evap. Line
Concerned DTC	P0441, P0442, P0455, P0456, P2422
Fail Safe	Warning Lamp On
Etc	Wait at least 5 min. before re-performing Evap. leakage test.
OK	
Do not touch any system buttons while performing this function.	



9. Check for installed parts and hose connections if EVAP leakage is detected.
- After making corrections, clear the DTC(s) and perform GDS Evap Leakage Test again.
- Repair procedure is completed if EVAP Leakage Test doesn't detect any leakage.

**For vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington:**

**VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD**

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

**WHAT TO DO WITH THE CARD:**

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not from the repair order. ALL INFORMATION MUST BE PRINTED AND NEAT.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in.

**The completely filled out Vehicle Emission Recall - Proof of Correction card should be given to the owner of the vehicle upon completion of the Campaign.**

1. Enter Vehicle's License Number

2. Enter "Hyundai"

3. Enter Model Year

4. Enter "SONATA HYBRID"

5. Enter the vehicle's VIN Number

6. Enter "964"

7. Enter Dealership Name

8. Enter Dealership's Address. NOTE: Enter the physical address, not the mailing address (not a P.O. Box)

9. Enter Date of Repair

10. Service Manager Sign Here



**For All Vehicles:**

**Fill in the information on the 00305-SC964 Campaign Sticker and apply onto the hood in the area next to the VEHICLE EMISSION CONTROL INFORMATION label as shown.**

Be sure to clean the mounting surface to ensure proper label adhesion.

The campaign procedure is complete.

