 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 21-01-037H
	DATE MAY, 2021	MODEL(S) SANTA FE / SANTA FE XL (NC)
SUBJECT: AUXILIARY CANISTER KIT INSTALLATION (SERVICE CAMPAIGN 961)		

★ 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: 2013-2019MY Santa Fe/Santa Fe XL (NC) Onboard Refueling Vapor Recovery (ORVR) system may exceed its capacity in certain situations.

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

There are no drivability concerns associated with the condition.

Applicable Vehicles: Certain 2013-2019MY Santa Fe / Santa Fe XL (NC)

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal P/N	Nature Code	Cause Code
SANTA FE/ SANTA FE XL (NC)	00D087R1	AUXILIARY CANISTER KIT INSTALLATION (KIT A)	0.7 M/H	31410-B8999QQH	I3A	ZZ3
	00D087R0	AUXILIARY CANISTER KIT INSTALLATION (KIT B)		31410-B8990QQH		

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

NOTE 2: If a part that is not part of the campaign is found in need of replacement while performing this Service Campaign 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.

NOTE 3: Cost of the cable tie \$0.20 will be reimbursed as sublet under both labor operations.

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There are two Auxiliary Canister kits; KIT (A) and KIT (B). The Campaign 961 will begin with the KIT (A) first. The KIT (B) will be available at a later time when KIT (A) stock is depleted.

KIT (A)

Part Number	Description	Photo	Remarks
31410-B8999QQH	AUX. CANISTER ASSY (KIT A)		Assembled with GREEN color O-ring. Must replace with BLACK color O-ring.
	HOSE-AIR		
31121-B8999QQH	BLACK color O-ring		Install to Auxiliary Canister Assembly
	PAD (T 20mm)		
	CABLE TIE (1 unit)		Source locally

Note: Both 31410-B8999QQH & 31121-B8999QQH must be ordered together as a pair with an equal count(s) to complete part order submission in WEBDCS.

KIT (B)

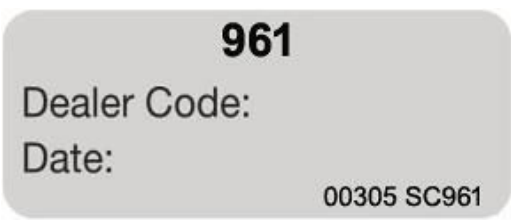
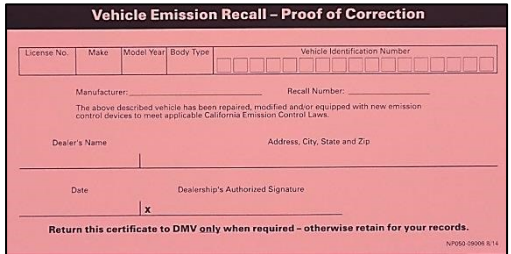
Part Number	Description	Photo	Remarks
31410-B8990QQH	AUX. CANISTER ASSY (KIT B)		Assembled with BLACK color O-ring. Install as is.
	HOSE-AIR		
	PAD (T 20mm)		
	CABLE TIE (1 unit)		Source locally

NOTICE

KIT (A) Auxiliary canister is fitted with a GREEN color O-ring. The BLACK color O-ring's cross sectional diameter is slightly larger than GREEN color O-ring. The GREEN color O-ring must be removed and replaced with BLACK color O-ring, which is included in the kit.

KIT (B) Auxiliary canister is fitted with an updated BLACK color O-ring. Install as is.

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Part Name	Part Number	Qty.	Figure	Remarks
Campaign Sticker	00305-SC961	1	 A rectangular sticker with a grey background. At the top center is the number '961'. Below it, the text reads 'Dealer Code:' followed by a blank space, and 'Date:' followed by a blank space. At the bottom right, the code '00305 SC961' is printed.	Apply to all vehicles regardless of state
Vehicle Emission Recall-Proof of Correction Card	NP050-09006	1	 A pink form titled 'Vehicle Emission Recall - Proof of Correction'. It contains fields for License No., Make, Model Year, Body Type, and Vehicle Identification Number. Below these are fields for Manufacturer, Recall Number, Dealer's Name, and Address. There are also fields for Date and Dealership's Authorized Signature. A small 'x' is marked in a box next to the signature line. At the bottom, it says 'Return this certificate to DMV only when required - otherwise retain for your records.' and 'NP050-09006 8/14'.	Order only for States: CA, CT, DE, MA, MD, ME, NJ, NY, OR, PA, RI, VT, WA

NOTE: Dealers have been sent 20 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 11 and 12 for more details.

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

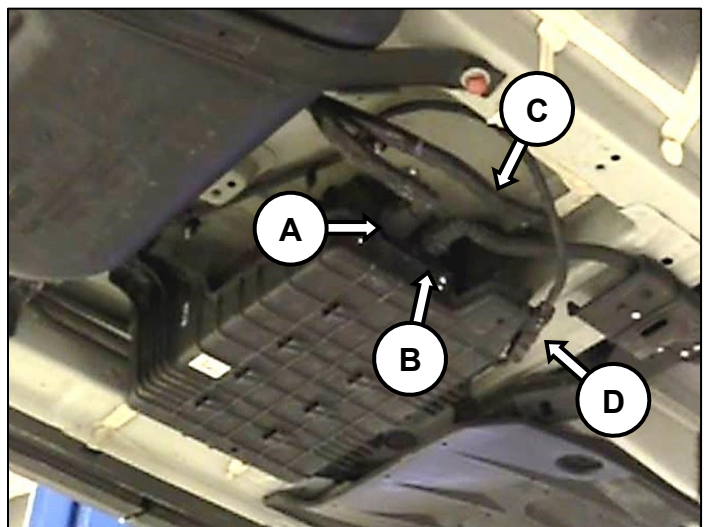
Service Procedure:

1. Lift up the vehicle on a hoist.

Locate the canister assembly and disconnect:

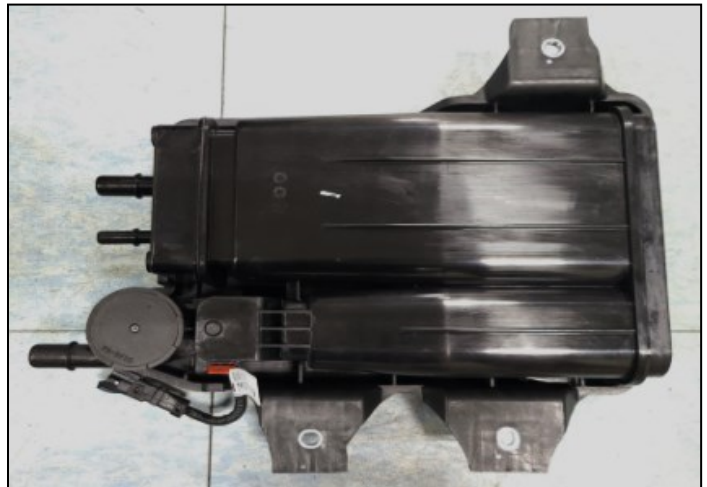
- Vapor tube quick-connector (A)
- Purge tube quick-connector (B)
- Fresh air tube quick-connector (C)

Disconnect the Canister Close Valve (CCV) wiring connector (D).

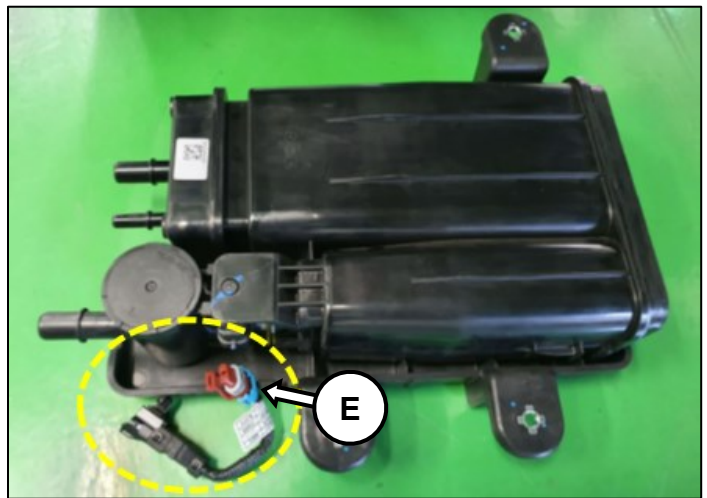


2. Remove the canister protector installation bolts & nut.

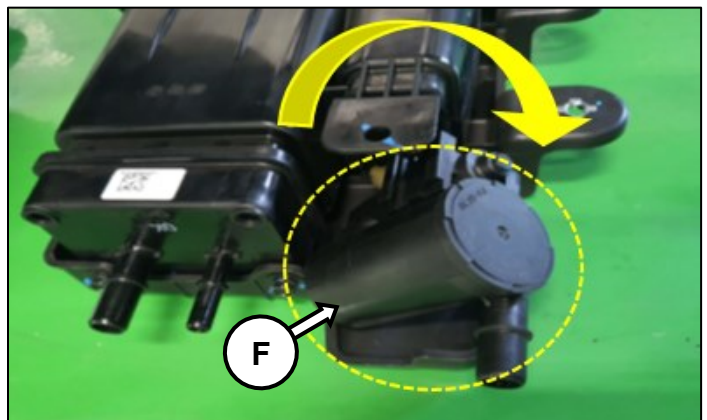
Then remove canister protector and canister assembly together with CCV and filter.



3. Pull out the CCV pig tail harness (E) from canister cover key hole.



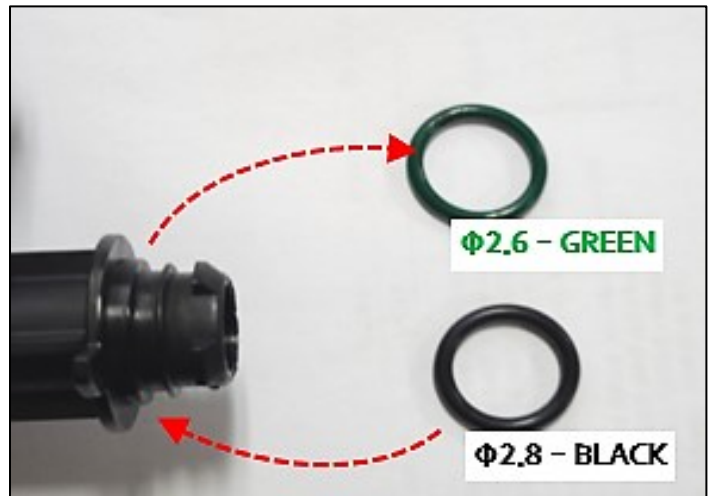
4. Rotate the CCV and filter (F) 45 degrees clockwise and then pull straight away from canister assembly to separate from canister.



5. When working with 31410-B8999QQH KIT (A), the auxiliary canister GREEN color O-ring (G) must be replaced with the BLACK color O-ring.

Auxiliary canister O-ring ($\Phi 2.6\text{mm}$ (GREEN) \rightarrow $\Phi 2.8\text{mm}$ (BLACK))

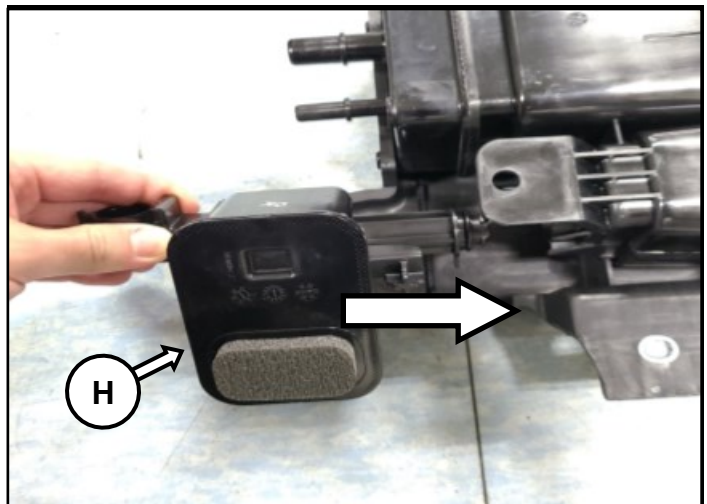
It is not necessary to exchange O-rings when working with 31410-B8990QQH KIT (B).



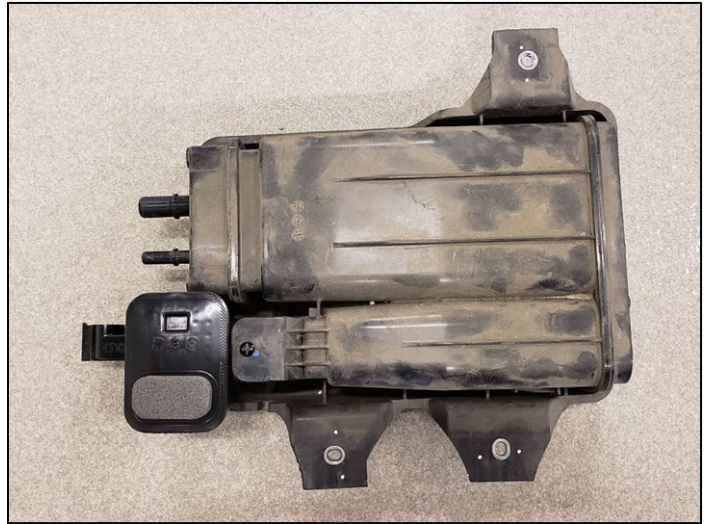
6. Hold the auxiliary canister (H) at a 45 degree angle and insert it straight into the canister.

NOTICE

Before installation, confirm that the auxiliary canister is fitted with BLACK color O-ring.

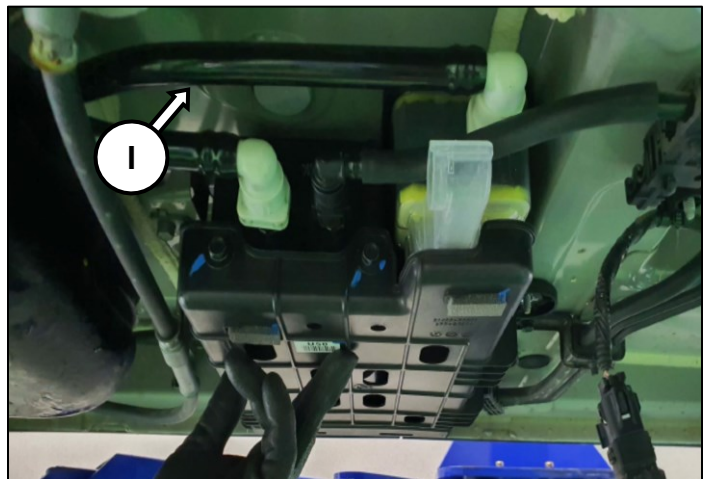


7. After full insertion, rotate 45 degrees counterclockwise to fully seated at the upright position.



8. Reinstall the canister and auxiliary canister assembly together with the canister protector.

**Install the bolts and nut loosely.
Do not fully tighten yet.**

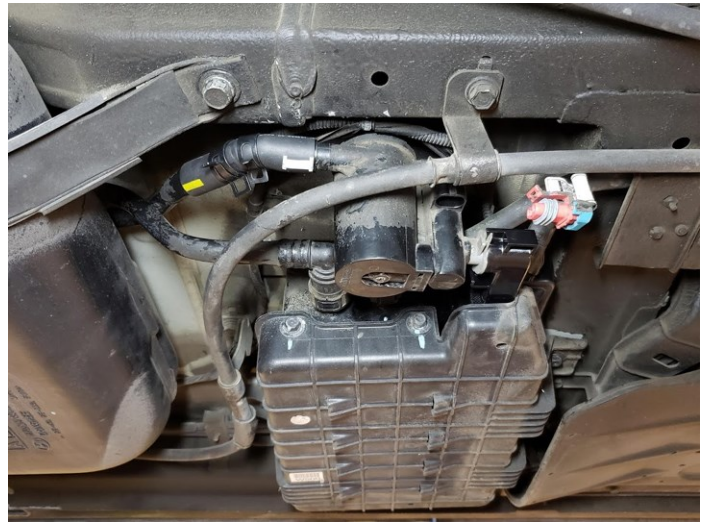


Cut the fresh air ventilation tube (I) that connects to the air filter by 180mm.

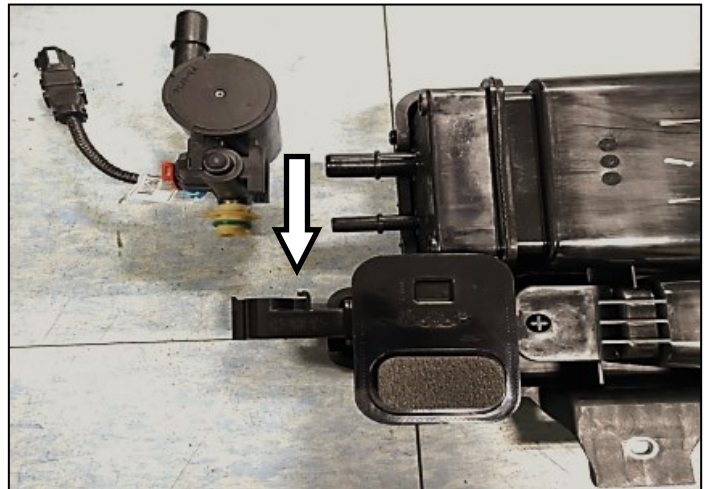


9. Reconnect the Vapor tube quick-connector and the Purge tube quick-connector.

Refer to step #1 for Vapor tube quick-connector and Purge tube quick-connector reconnection locations



Install the CCV and the air filter assembly to the auxiliary canister.



10. Insert the air hose length of 10mm over fresh air and install the other end over the air filter nipple.

NOTICE

Inside diameter of air hose ends are different.

- Connect the **YELLOW** color stripe end to fresh air ventilation tube
- Connect the **WHITE** color stripe end to air filter nipple

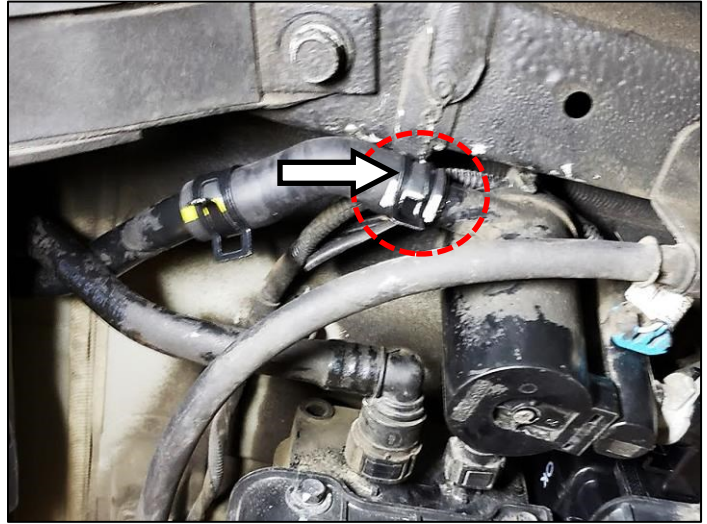


To ventilation tube

To air filter

Secure the hose connections with the hose clamps.

To ensure proper sealing, apply the clamp over the overlap area of air hose and tube or nipple.



11. Reconnect the CCV wiring connector.

Tie the CCV connector and pig tail harness to the brake cable support bracket with the cable tie to secure.



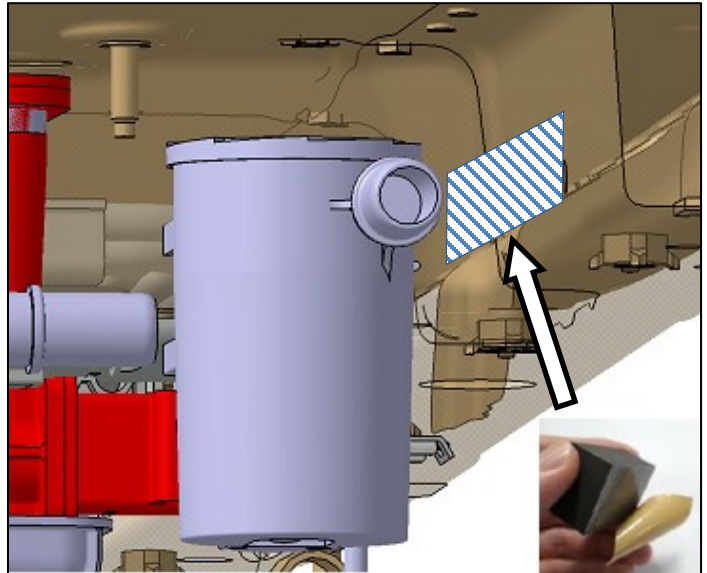
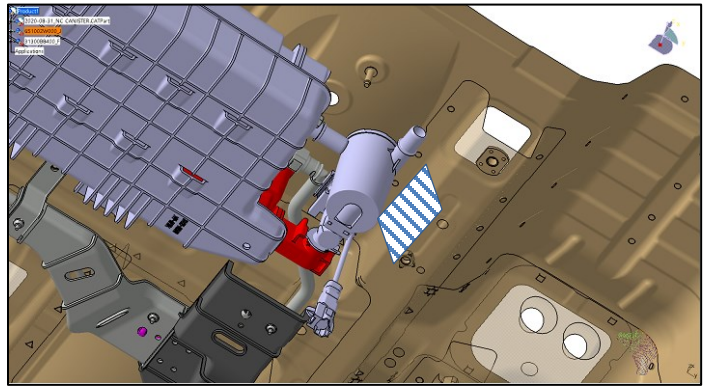
12. Clean the vehicle body side member next to the air filter.

NOTICE

Clean the body side member to ensure proper adhesion.

Then peel off the backing film and apply the padding firmly to the area.

The purpose of the padding is to limit the rotational movement of the air filter.



13. Tighten the canister protector bolts and nut to secure the canister.

Tightening Torque:
2.9 ~ 4.3 lb-ft (3.9 ~ 5.9 N.m, 0.4 ~ 0.6 kgf.m)



14. **GDS Evap Leakage Test:**

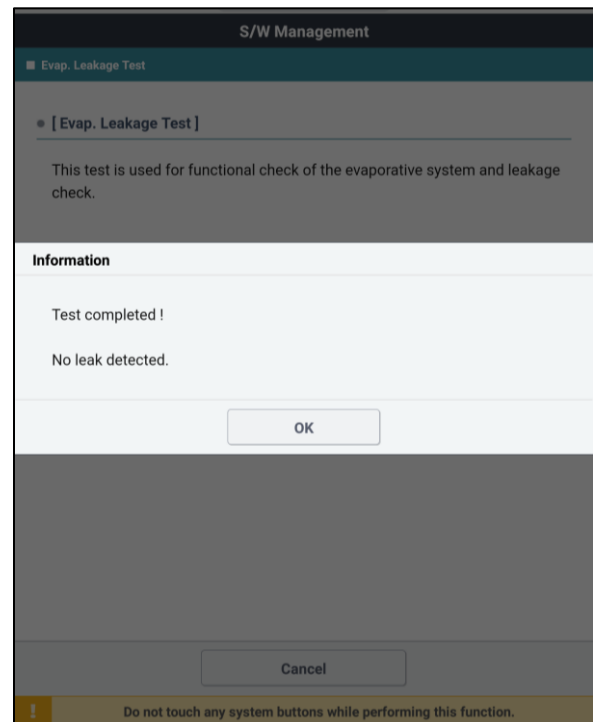
Follow GDS instructions and perform GDS Evap Leakage Test to confirm parts and hoses are installed properly.

15.

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	<ol style="list-style-type: none">1. Engine Idle2. No DTC3. Fuel Level : 20-70%4. Battery voltage greater than 11V5. 2 Min after the engine start6. 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.



16. 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.

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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 "SANTA FE (OR) SANTA FE XL"

5. Enter the vehicle's VIN Number

6. Enter "961"

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

Vehicle Emission Recall - Proof of Correction

License No. Make Model Year Body Type Vehicle Identification Number

Manufacturer: Recall Number:

The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws.

Dealer's Name Address, City, State and Zip

Date Dealership's Authorized Signature

Return this certificate to DMV only when required - otherwise retain for your records.

NP050-09006 8/14

For All Vehicles:

Fill in the information on the 00305-SC961 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.

