



Technical Service Bulletin

GROUP

FUEL SYSTEM

NUMBER

18-FL-002

DATE

JUNE, 2018

MODEL

ACCENT (RB)

SUBJECT: CCV AND AIR DRAIN CASE INSPECTION/REPLACEMENT

Description: Certain 2012-2016 ACCENT (RB) vehicles may experience a check engine warning light with the following DTC(s) found stored in the Engine Control Module (ECM):

- DTC P0455 - Evaporative emission system-Leak detected (Large leak)
- DTC P0456 - Evaporative System (EVAP) - Very Small Leak.
- DTC P0449 - Canister Closed Valve (CCV) - Restricted Vent Circuit
- DTC P0451 - Fuel Tank PSI Sensor (FTPS / DPS) - Range Performance (No FTPS Change)

There are no drivability symptoms associated with these DTC(s).

This bulletin provides the procedure to inspect the Canister Close Valve (CCV) and replace if necessary. The Air Drain Case will be replaced (also referred to in past as canister vent filter).

Applicable Vehicles: 12-16MY ACCENT (RB) 1.6L GDI vehicles produced until April 17, 2017.

Parts Information:

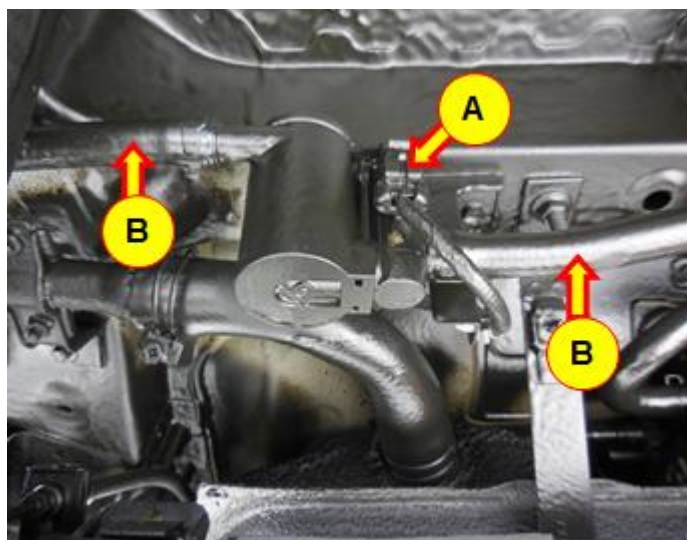
PART NAME	FIGURE / PART NUMBER		QTY.
	PREVIOUS	NEW	
CCV			1 each (when applicable)
	Port color : Black	Port color : Ivory	
	31453-3K600	31453-3K600FFF	
Air Drain Case			1 each
	31035-2K500	31035-B2500FFF	

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
ACCENT (RB)	31035F02	CCV INSPECTION AND AIR DRAIN CASE REPLACEMENT (RB)	0.7	31035-B2500FFF	I3T	ZZ1
	31035F03	CCV INSPECTION AND CCV & AIR DRAIN CASE REPLACEMENT (RB)	0.8	31453-3K600FFF	I3T	ZZ1

SERVICE PROCEDURE:

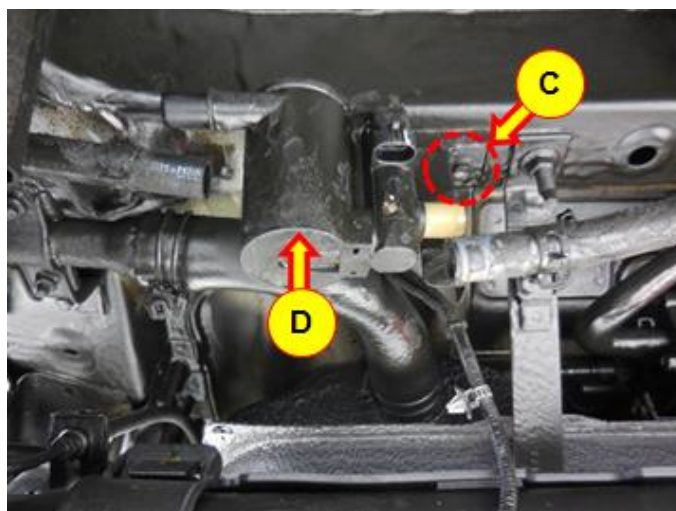
1. Connect the GDS to the vehicle and perform a DTC scan to confirm if any of the pertinent DTC P0455/P0456/P0449/P0451 are stored in the Engine Control Module. Print the DTC screen from the GDS and retain with the repair order for documentation purposes and then erase all DTC(s).
2. Disconnect the connector (A) and both hoses (B) from the CCV.



3. Loosen the mounting bolt (C) and remove the fuel tank air filter (D).

Tightening torque:

2.94~4.90 Nm (0.3~0.5 kgf.m, 2.17~3.62 lb.ft.)



CCV Inspection:

4. Check the color of the CCV Port and its interior condition:

CCV Port color is Black:

- a. Continue to step 5 to replace the CCV valve part.
- b. **Claim 31035F03**
(CCV INSPECTION AND CCV & AIR DRAIN CASE REPLACEMENT).

**CCV Port color is Ivory:**

- a) **Interior of CCV Port is clean.**
 - i. The CCV will not be replaced. Reinstall it back on the vehicle.
 - ii. Skip to step 11 to replace the Air Drain.
 - iii. **Claim 31035F02**
(CCV INSPECTION AND AIR DRAIN CASE REPLACEMENT).
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- b) **Interior of CCV Port has liquid or foreign material deposit.**
 - i. Go to step 5 to replace the CCV valve part.
 - ii. **Claim 31035F03**
(CCV INSPECTION AND CCV & AIR DRAIN CASE REPLACEMENT).



CCV Replacement (when applicable):

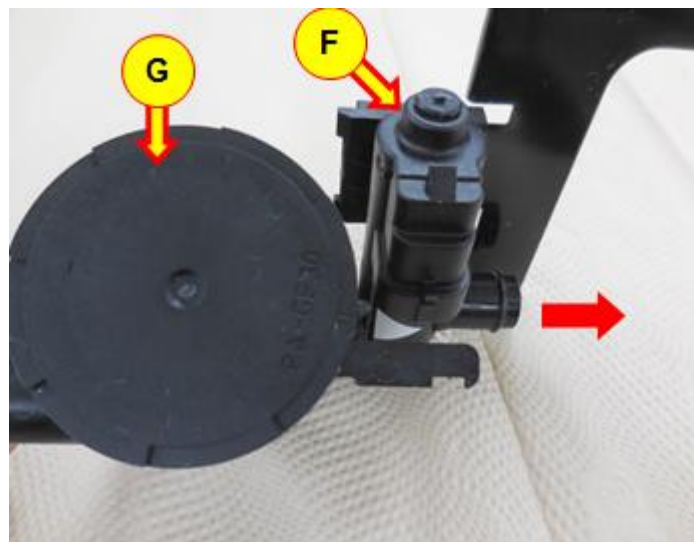
5. Release the mounting lever using a narrow flat blade screwdriver.



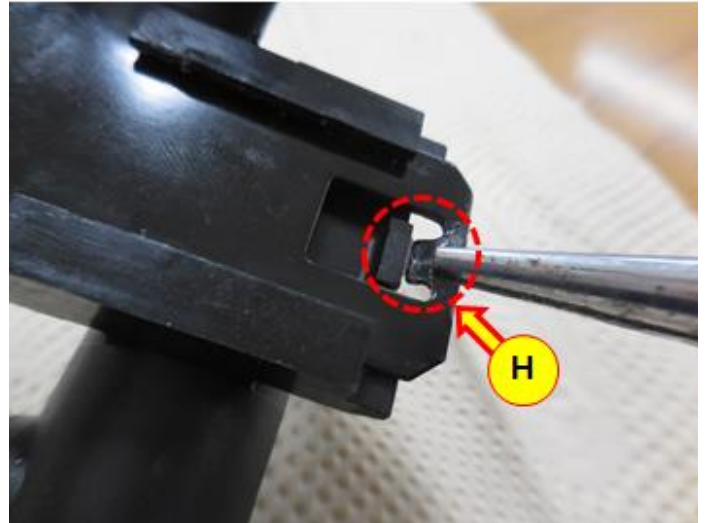
6. Rotate the CCV & bracket (F) clockwise and pull the CCV towards the red arrow direction to remove it from the fuel tank air filter (G).

*** NOTE**

The fuel tank air filter will be reused. After removal, blow shop air through the filter to fully remove any liquid and foreign material, making sure that air can pass through freely.



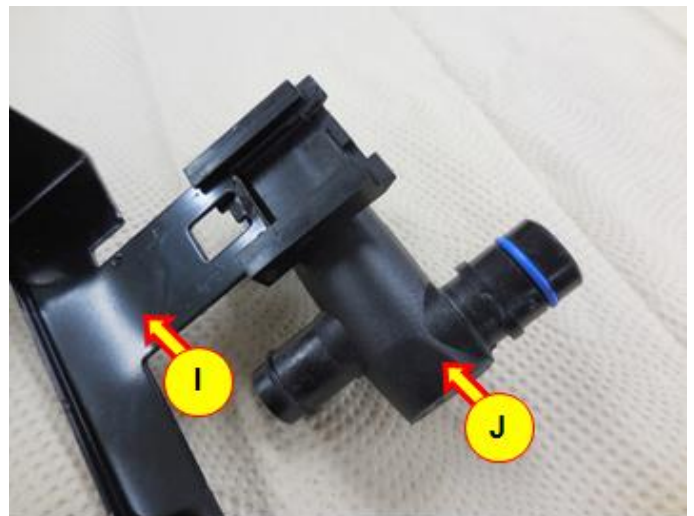
7. Unfold the CCV hook (H) of the bracket using a long nose plier.



8. Remove the bracket (I) from the CCV (J).

*** NOTE**

Save the bracket, it will be reused.



9. Install the new CCV (K) listed in the Parts Information of page-1.
10. Reinstall all removed parts in reverse order of removal.



Air Drain Case Replacement:

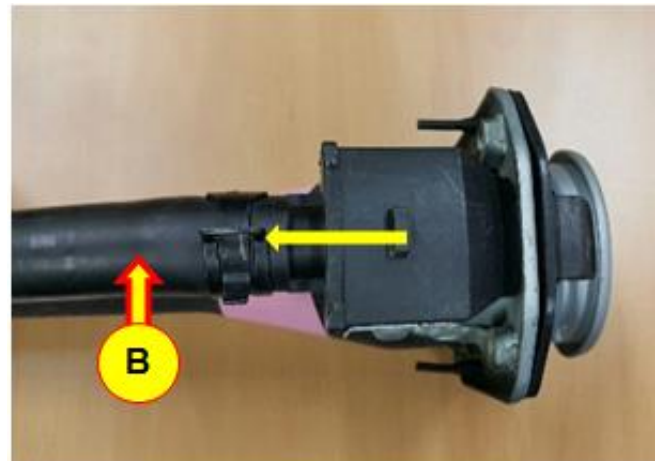
11. Remove the fuel filler neck assembly referring to the applicable vehicle shop manual.
*Engine control/fuel system > Fuel delivery system > Filler-neck assembly”



12. Remove the retaining clip (A) from the air drain case using a flat head screwdriver.



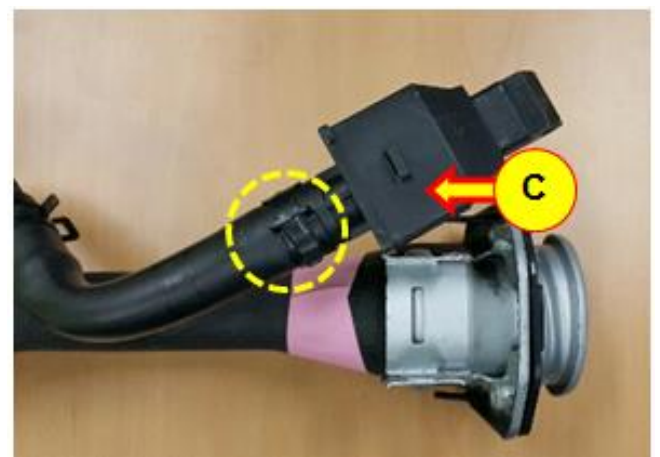
13. Pull the hose (B) in the direction of the arrow to remove the air drain case from the filler neck.



14. Release the clamp using pliers and remove the air drain case (C).

15. Install the air drain case with a new part as listed in the parts information.

16. Reinstall all removed parts in reverse order of removal.



17. Connect the GDS and perform the **Evap Leakage Test** to ensure a result of **No Leak Detected**. This will confirm proper installation and that the original DTC P0455/P0456 condition has been resolved.

*** NOTE**

Perform the Evap Leakage test if possible based on the conditions mentioned by the GDS screen:

- Make sure DTC were previously cleared as per step-1.
- If vehicle fuel level is not within 20-70%, the test cannot be conducted.
- To be able to conduct the test it may be necessary to let the engine run or drive the vehicle briefly to get coolant temperature up to 80C (near to half way on the cluster gauge).

• 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.

This is the result when Evap Leakage Test completes successfully with “No leak detected.” →

*** NOTE**

If the result shows Leakage Detected, confirm the repair areas, then check for leakage from other areas of the Evap system.

Submit a separate warranty claim for any additional repair work required.

Information

Test completed !

No leak detected.

OK

Should vehicle conditions not allow for the Evap Leakage test to be conducted, then this bulletin's procedure has ended.