



## Technical Service Bulletin

GROUP <b>FUEL SYSTEM</b>	NUMBER <b>18-FL-003</b>
DATE <b>JUNE, 2018</b>	MODEL <b>VELOSTER (FS)</b>

<b>SUBJECT:</b>	<b>AIR DRAIN CASE REPLACEMENT</b>
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**Description:** Certain 2012-2016 1.6L VELOSTER (FS) 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 replace the Air Drain Case (also referred to in past as canister vent filter).

**Applicable Vehicles:** Certain 2012-2016MY VELOSTER (FS) 1.6L GDI vehicles.

### Parts Information:

PART NAME	FIGURE / PART NUMBER		QTY.
	PREVIOUS	NEW	
Air Drain Case			1 each
	31035-2K500	<b>31035-B2500FFF</b>	

### Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
VELOSTER (FS)	31035F01	AIR DRAIN CASE REPLACEMENT (FS)	0.7	31035-B2500FFF	I3T	ZZ1

**SERVICE PROCEDURE:**

1. Connect the GDS to the vehicle and perform 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).

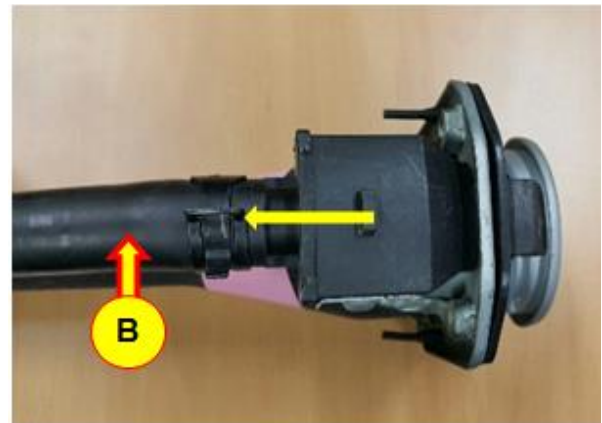
2. Remove the fuel filler neck assembly referring to the applicable vehicle shop manual.  
\*Engine control/fuel system > Fuel delivery system > Filler-neck assembly”



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



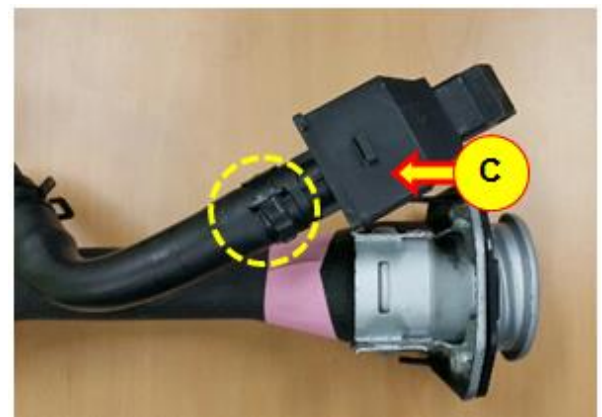
4. Pull the hose (B) in the direction of the arrow to remove the air drain case from the filler neck.



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

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

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



8. 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 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).

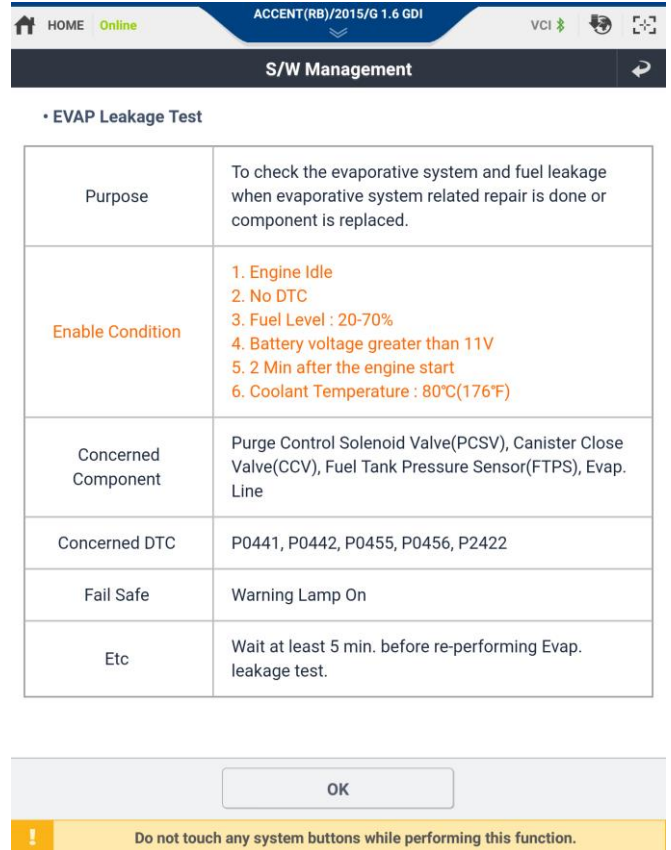
This is the result when Evap Leakage Test completes successfully with “No leak detected.” →

**\* 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.**

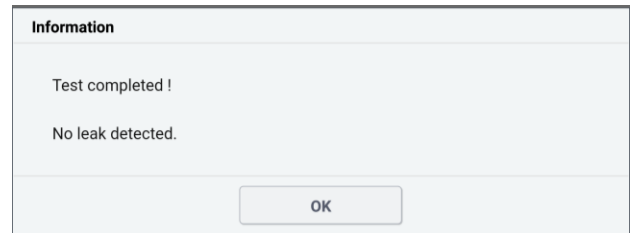
Should vehicle conditions not allow for the Evap Leakage test to be conducted, then this bulletin’s procedure has ended.



• 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.



**Information**

Test completed !  
No leak detected.

OK