



TECH TIP

Transaction No: 2057754/2

01-19-09TT - EVAP Fault(s) P0442, P0456, P0441, P0496, Present After Software Update

Release date: 10/02/2020

Condition

ATTENTION:

**THIS IS A TECH TIP, NOT A TECHNICAL BULLETIN.
TECH TIPS ARE NOT ASSOCIATED WITH WARRANTY CLAIMING.**

Applicable Vehicles

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Atlas	2018 - 2019	3.6L (CDVC)	All	All	All

Revision Table

Instance Number	Published Date	Version Number	Reason For Update
2057754/2	10/2/20	01-19-09TT	Updated to include ECM update via campaign.
2057754/1	11/22/19	01-19-09TT	Original publication.

Technical Background

Engine/Motor Control Module -**J623**- with below DTCs after software update (performed in conjunction with the 24FK Campaign).

DTC	Description
P0441	EVAP Emission Contr.Sys.Incorrect Purge Flow
P0442	EVAP Emission Contr.Sys.(Small Leak) Leak Detected
P0456	EVAP Emission Contr. Sys. (very small Leak) Leak Detected
P0496	EVAP System High Purge Flow

Service

With pressure on the fuel system:

1. Leak test the EVAP system using soapy water on the hose connections at the top of the fuel tank.

One common leak frequently found is by pulling the rubber boot in the fuel filler door and checking the connections located there (canister breather line and filler neck collar).

2. Remove and shake the charcoal canister to check for a rattle.
3. Disconnect the EVAP line running to the EVAP Canister Purge Regulator Valve -**N80**-, located in the engine compartment. Tap it on a piece of white paper and check for any charcoal particles.



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If particles are found, or the carbon canister is rattling:

- Blow out the line with compressed air to clear debris. Replace the **-N80-** and charcoal canister assembly

If no debris or charcoal canister rattling is identified:

- Perform EVAP Canister Purge Regulator Valve **-N80** Vacuum test. Replace component if test failed.

If all testing has passed:

- Check the wiring and connections to the DMTL, **-J909-** Fuel Tank Leak Detection Control Module. If no concerns found, replace Fuel Tank Leak Detection Control Module **-J909-**.

Additional Information

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