27-19-03TT - No Crank – Sporadic - DTC P06E9

Release date: 09/10/2021

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	2018-2021	All	All	All	All

Revision Table

Instance Number	Published Date	Version Number	Reason For Update
2056397/4	9/10/21	27-19-03TT	Include additional diagnostic step.
2056397/3	1/29/21	27-19-03TT	Include additional model year applicability.
2056397/2	6/12/20	27-19-03TT	To remove adaptation of the Battery Monitoring Control Module -***J367***-.
2056397/1	10/4/2019	27-19-03TT	Original publication.

Technical Background

Sporadic failure to crank. DTC P06E9 possible.

DTC	Description
P06E9	Engine Starter Performance

Service

Verify Starter Motor -***B***- low current circuits are operating correctly by listening for the Starter Relays -***J906***-, -***J907***- to click or verify voltage at the Starter Relays when Starter Motor -***B***- doesn't engage. If the low voltage side of the circuit can be eliminated as a potential cause of the issue, or if the vehicle is currently starting, check the high current portion of the Starter Motor -***B***- circuit proceeding as follows:

1. Test battery condition, state of charge and charging system operation. Address any concerns identified. If ok, then proceed with the remaining steps.

Tip:

The following areas need to be checked while the engine is cranking.

2. Voltage drop test the Positive Battery Cable from the positive post of the Battery to Starter Motor -***B***-.

3. Voltage drop test the Negative Battery Cable from the Negative Battery Post to the Jump Start/Charging Post in the engine compartment.

4. Voltage drop test the Negative Battery Cable from the Frame Rail to the Transmission Ground Post.

If any are over 0.3V, replace the suspect cable. If the voltage drop is not excessive, replace Starter Motor -***B***-.

Additional Information