



STAR ONLINE PUBLICATION



Case Number: S2118000011

Release Date: July 2021

Symptom/Vehicle Issue: Diagnostic Trouble Code (DTC) P049B – EGR B Insufficient Flow Detected, Additional Diagnostics.

Discussion: DTC P049B sets when the system does not detect sufficient flow through the Low Pressure EGR system. The system uses a differential pressure sensor, similar to the one used for the Diesel Particulate Filter (DPF), to measure the flow through the LP EGR cooler and valve.

When diagnosing a vehicle with P049B, it is important to inspect for all possible causes that would lead to a decrease in flow throughout the LP EGR system. In addition to normal published diagnostics for the code, please also closely inspect the following areas and make any necessary repairs prior to replacing the LP EGR valve:

- Any air leaks in the fresh air ducting between the air filter housing, and the turbocharger inlet.
- Any air leaks in the Charge Air Cooler (CAC) and intake system. Please be sure to follow all published leak test procedures for the CAC system and intake manifold.
- Clogged, loose, or disconnected LP EGR differential pressure sensor hoses.
- Restrictions in the LP EGR pipe between the DPF and LP EGR cooler.
- Restricted LP EGR Cooler assembly. The LP EGR cooler inlet pipe may need to be removed to inspect the cooler inlet for blockages.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found