



NUMBER: 18-037-21

GROUP: 18 - Vehicle Performance

DATE: April 15, 2021

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This bulletin supersedes Technical Service Bulletin (TSB) 18-021-20 REV. A, date of issue June 20, 2020, which should be removed from your files. All revisions are highlighted with **asterisks**** and include additional Diagnostic Trouble Codes (DTCs) and LOP.**

This Technical Service Bulletin (TSB) has also been released as a Rapid Response Transmittal (RRT) 19-051, dated July 04, 2019. All applicable Sold and Un-Sold RRT VINs have been loaded. To verify this RRT service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty. This RRT will expire 18 months after the date of issue.

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

This bulletin involves reprogramming the PCM with the latest available software.

MODELS:

2019 (JL) Jeep Wrangler

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, APAC, EMEA and LATAM.

NOTE: This bulletin applies to vehicles equipped with a 2.0L I4 DOHC DI Turbo Engine W/ESS (Sales Code EC1).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that one or more of the following DTCs have been set:

- ****P02EE - Cylinder 1 Injector Circuit Performance (APAC, EMEA and LATAM Only).**
- **P02EF - Cylinder 2 Injector Circuit Performance (APAC, EMEA and LATAM Only).**
- **P02F0 - Cylinder 3 Injector Circuit Performance (APAC, EMEA and LATAM Only).**
- **P02F1 - Cylinder 4 Injector Circuit Performance (APAC, EMEA and LATAM Only).****
- **P012A - Turbocharger/Supercharger Inlet Pressure Sensor 1 (APAC, EMEA and LATAM Only).**
- **P012C - Turbocharger/Supercharger Inlet Air Pressure Sensor 1 Circuit Low (APAC, EMEA and LATAM Only).**
- **P012D - Turbocharger/Supercharger Inlet Air Pressure Sensor 1 Circuit High (APAC, EMEA and LATAM Only).**
- **P2C90 - Crankcase Ventilation System - Hose "A" Disconnected (APAC, EMEA and LATAM Only).**
- **P06EF - Engine Restart Performance.**
- **P04FC - Crankcase Ventilation System Performance.**
- **P050B - Cold Start Ignition Timing Performance.**
- **P0128 - Thermostat Rationality.**

- P0456 - EVAP System Small Leak.

NOTE: If DTC P0456 is present, use the wiTECH Small Leak Verification Test (SLVT) to determine if there is a leak in the system.

The following software enhancement is also available in this update:

- Enable soot retention for vehicles equipped with Gasoline Particulate Filter (GPF).

Technicians may also experience the following:

- Unable to read data information from the OBD II connector when using a generic scan tool **(APAC Only)**.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/conditions listed above or if the technician finds the DTCs, perform the Repair Procedure.

REPAIR PROCEDURE:

NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the flash process.

NOTE: If this flash process is interrupted/aborted, the flash should be restarted.

1. Reprogram the PCM with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. Clear any DTCs that may have been set in any modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-QB	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.3 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 7 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

The dealer must use failure code CC with this Service Bulletin.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used.
- When utilizing this failure code the 3C's (customer's concern, cause and correction) must be provided for processing Service Bulletin flash/reprogramming conditions.

CC	Customer Concern
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