

Technical Service Bulletin (TSB)

Flash: Powertrain Control Module (PCM) Updates

REFERENCE:	TSB: 18-064-23 GROUP 18 - Vehicle Performance	Date:	May 23, 2023	REVISION:	18-105-20
VEHICLES AFFECTED:	2020 (KL) Jeep Cherokee This bulletin applies to vehicles equipped with a 2.2L I4 Turbo Diesel Engine W/ESS (Sales Code EBV).			MARKET APPLICABILITY: ☐ NA☒ MEA ☐ SA☒ IAP ☒ EE☐ CH	
CUSTOMER SYMPTOM:	Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following Diagnostic Trouble Codes (DTC)s: **P24D1-00 - Particulate Matter Sensor Regeneration Incomplete. NOTE: This software update will help prevent P24D1-00 from setting. If P24D1-00 sets on a sold vehicle, this software update will not correct this DTC. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding this DTC. - P2002-00 - Diesel Particulate Filter (DPF) Efficiency based on Particulate Matter (PM) sensor monitoring. NOTE: If DTC P2002 is present it will require DPF and PM sensor replacement. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding Diesel Particulate Matter Sensor (DPM) replacement. - P24AE-00 - Particulate Matter Sensor Circuit. - P24B0-00 - Particulate Matter Sensor Circuit Low. - P24B1-00 - Particulate Matter Sensor Circuit High. - P24D0-00 - Particulate Matter Sensor Supply Voltage Circuit Low. - P24D3-00 - Particulate Matter Sensor Supply - Circuit Voltage Above Threshold. - P24AF-00 - Particulate Matter Sensor Circuit Performance. - P24B5-00 - Particulate Matter Sensor Heater Control Circuit Low. - P24B6-00 - Particulate Matter Sensor Heater Control Circuit High. - P24B7-00 - Particulate Matter Sensor Heater Resistance. - P24DA-00 - Particulate Matter Sensor Exhaust Sample Error Bank 1. - U05A4-00 - Particulate Matter Sensor Received Invalid Data From ECM - PCM. - U02A3-00 - Loss of Communication with PM Sensor Module.** - P20EE-00 - SCR NOx Catalyst Efficiency Below Threshold Bank 1 Catalyst 1. - P24B2-00 - Particulate Matter Sensor Circuit Intermittent. Customers may also describe the following condition: - Engine Start/Stop inoperative after previous software update. - Remote start inoperative (South Korea vehicles only). - Incorrect vehicle speed reported by the cluster when the driver changes the speed units. - Undesirable pedal response in 4-LO mode. - Selective Catalytic Reduction (SCR) system fault codes logged at higher vehicle speeds. - Alternator load protection at idle. Check Engine Lamp or low battery indicator				
CAUSE:	PCM software.				

This bulletin supersedes Technical Service Bulletin (TSB) 18-105-20, date of issue November 20, 2020, which should be removed from your files. All revisions are highlighted with ****asterisks**** and include an additional Diagnostic Trouble Codes (DTCs), steps and LOP.

REPAIR SUMMARY:

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

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-04-08	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.4 Hrs.
Failure code	CC	Customer Concern	

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

- If the customer's concern matches the SYMPTOM identified in the Technical 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 Technical Service Bulletin flash/reprogramming conditions.

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 above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes any of the symptoms listed above in the customer symptom section, perform the Repair Procedure.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	—	—

REPAIR PROCEDURE:

NOTE:** The Dosing Control Unit (DCU) and Body Control Module (BCM) must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the DCU and BCM software.

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.

NOTE: Before the flash process you must refer to all applicable published service bulletins for the DPM sensor related DTCs listed in this bulletin for DPM sensor repair procedures.

1. Refer to all applicable published service bulletins for the DPM sensor related DTCs listed in this bulletin for DPM sensor repair procedures.
2. Reprogram the PCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
3. Cycle ignition off for 3 minutes to properly complete the PCM update.
4. Verify the Dosing Control Unit (DCU) is programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the DCU software.
5. Verify the Body Control Module (BCM) is programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the BCM software.
6. 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.

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