

Technical Service Bulletin (TSB)

Flash: Powertrain Control Module (PCM) Updates

REFERENCE:	TSB: 18-070-24 GROUP: 18 - Vehicle Performance	Date:	September 14, 2024	REVISION:	—
VEHICLES AFFECTED:	2023 (WL) Jeep Grand Cherokee/Grand Cherokee L This bulletin applies to vehicles equipped with the 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Code ECX) and 8-Spd Auto 8P75PH PHEV Transmission (Sales Code DFY).			MARKET APPLICABILITY: ☐ NA☐ IAP ☐ EE☐ MEA ☐ SA☒ CH	
CUSTOMER SYMPTOM:	Customers must experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician must find one or more of the following Diagnostic Trouble Codes (DTC)s have been set: ● P0629 - Fuel Pump Control Circuit High. ● P0171 - Fuel system Lean. ● P0087 - Fuel Rail Pressure Too Low - Bank 1. Customers may also experience the following: ● Vehicle will not start. ● The Instrument Cluster Panel (ICP) unable to calculate the instantaneous fuel economy under heavy acceleration. ● The oxygen sensor can give incorrect values when entering EV mode. False fault detection (MIL on) is possible when this event occurs. ● The rear half shafts are damaged due to accelerating in drive with the Electronic Parking Brake (EPB) applied.				
CAUSE:	PCM software				

REPAIR SUMMARY:

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

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-87-PP	Powertrain Module (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.2 Hrs.
Failure Code	CC	Customer Concern	

RELATED TIME ALLOWANCE:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-87-52	wiTECH Routine to Disable/Enable HV Battery Contactors for Service; Includes 5 Minute Waiting Period (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.

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:**WARNING!**

- Before performing the software reprogramming, it is necessary to make the vehicle safe.
- When performing repairs that directly involve or imply possible contact with live high voltage components/systems, the technician must ensure that the power supply of the high-voltage system is disconnected throughout the operation.
- Only specifically trained technicians qualified to perform repairs on vehicles with high voltage systems under current national laws/regulations are authorized to work on the vehicle.
- Before performing any diagnostic repair work on the vehicle, carefully read and comply with the general instructions for working safely on hybrid/electric vehicles and use suitable general equipment and Personal Protective Equipment (PPE).

NOTE: The vehicle must not be connected to a high voltage charger when performing software updates.

NOTE: Install a battery charger to maintain a 12 volt system voltage.

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

1. Disable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Disable HV Battery Contactors --> then follow the wiTECH prompts.
2. Use wiTECH to confirm that the contactors are open and waiting five minutes. If the contactors do not open turn the ignition on then off. Once successful a note will appear on the wiTECH screen indicating the contactors are open.
3. Reprogram the PCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application "HELP" tab.
4. Clear all DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
5. Enable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Enable HV Battery Contactors For Service--> then follow the wiTECH prompts.

POLICY:

Reimbursable within the provisions of the warranty.

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