

# **Technical Service Bulletin (TSB)**

## Flash: Powertrain Control Module (PCM) Enhancements

REFERENCE:	<b>TSB:</b> 18-022-24 REV. A <b>GROUP:</b> 08 - Electrical	Date:	May 15, 2024	REVISION:	18-022-24
/EHICLES	2021 (JL) Jeep Wrangler This bulletin applies to vehicles equipped with a 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Code ECX) and 8-Speed Auto 8P75PH			MARKET APPLICABILITY:	
AFFECTED:				$\boxtimes$ NA	$oxed{ imes}$ MEA
	PHEV Transmission (Sales Code DFY).		$oxed{oxtimes}$ SA	$oxed{ imes}$ IAP	
				⊠ EE	$oxed{ imes}$ CH
CUSTOMER SYMPTOM:	**Customers must experience a Ma exhibit/set one or more of the follow • U0402-00 - Implausible Data Re	wing Diagnos ceived From T	tic Trouble Codes (C CM.		ne vehicle must
	exhibit/set one or more of the follow	wing Diagnosi ceived From T ved From TCM more of the fo nen fuel and oi electric mode	tic Trouble Codes (ECM.  I On D-PT.  I loning: I refresh mode active driving while Fuel Oil	OTCs):**	
	<ul> <li>exhibit/set one or more of the follow</li> <li>U0402-00 - Implausible Data Recei</li> <li>U145D - Implausible Data Recei</li> <li>Customers may experience one or</li> <li>Noticeable oil life degradation will</li> <li>Vehicle may not be able to enter</li> <li>FORM staying on too long.</li> </ul>	wing Diagnosiceived From Towed From TCM more of the fonen fuel and oil electric mode ded with this under the control of the co	tic Trouble Codes (ECM.  If On D-PT.  If On D-PT.  If refresh mode active driving while Fuel Oil  Lupdate:	OTCs):**	

This bulletin supersedes Technical Service Bulletin (TSB) 18-022-24, date of issue March 14, 2024, which should be removed from your files. All revisions are highlighted with \*\*asterisks\*\* and include a new Customer Symptom statement, new module name and new Repair Procedure step.

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 21-124, date of issue August 26, 2021. All applicable Sold and Un-Sold RSU VINs have been loaded. To verify this RSU 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 RSU will expire 18 months after the date of issue.

#### **REPAIR SUMMARY:**

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

NOTE: Additional module flashes are required for this update to be effective, the following modules are all to be updated along with this PCM update.

- Battery Pack Control Module (BPCM).
- Transmission Control Module (TCM).
- Integrated Dual Charging Control Module (IDCM).
- Hybrid Control Processor (HCP), Auxiliary Hybrid Control Processor (AHCP) also known as the Power Inverter Module (PIM).

#### **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 the symptom/condition above, perform the repair procedure.

#### SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	-	-

#### **REPAIR PROCEDURE:**

NOTE: The IDCM, BPCM, HCP / AHCP and TCM must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published technical service bulletins for detailed repair procedures and labor times regarding updating the IDCM, BPCM, HCP / AHCP and TCM software.

### WARNING!!

Failure to update the IDCM, BPCM, HCP / AHCP and TCM module following a PCM software update may result in vehicle malfunctions.

#### CAUTION!!

- 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: 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. Reprogram the PCM with the latest software. \*\*If issues arise when flashing a module using the wiTECH Diagnostic Application, please submit a ticket to the Helpdesk. The helpdesk can be found within the Help menu.\*\*
- 2. 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.
- Verify the IDCM, BPCM, HCP / AHCP and TCM are also programmed with the latest available software.
   Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the IDCM, BPCM, HCP / AHCP and TCM software.

NOTE: Follow the 04B Recall Instructions and utilize the LOPs contained within the Recall.

## **POLICY:**

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