

Technical Service Bulletin (TSB)
Flash: Transmission Control Module (TCM) Updates

REFERENCE:	TSB: 21-017-24 REV. C GROUP: 21 - Transmission	Date:	June 8, 2024	REVISION:	21-017-24 REV. B
VEHICLES AFFECTED:	2024 (JL) Jeep Wrangler (PHEV) This bulletin applies to vehicles built on or before **April 23, 2024 (MDH 0423XX)** equipped with a 2.0L I4 DOHC DI Turbo PHEV Engine (Sales Code ECX) and a 8-SPD Auto 8P75PH PHEV Transmission (Sales Code DFY).			MARKET APPLICABILITY:	
				<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> MEA
				<input checked="" type="checkbox"/> SA	<input checked="" type="checkbox"/> IAP
				<input checked="" type="checkbox"/> EE	<input checked="" type="checkbox"/> CH
CUSTOMER SYMPTOM:	<p>Customers must experience a Malfunction Indicator Lamp (MIL) illumination and the vehicle must exhibit/set one or more of the following Diagnostic Trouble Codes (DTCs):</p> <ul style="list-style-type: none"> • P06E4 - Control Module Wake-up Circuit Performance. • B12B4 - Charge Status Indicator Module Internal. • P061B - Internal Control Module Torque Calculation Performance. • P0810 - Clutch Position Control Error. • P2885 - Engine Disconnect Clutch Engagement Fault. <p>Customers may experience one or more of the following:</p> <ul style="list-style-type: none"> • **Vehicle loses propulsion capability. • 'Shift To Park' notification on. • 'Service Transmission' warning light on. • Requires key cycle to recover.** • Shifts rough occasionally. • Harsh shifts when tipping in during a coast down. • Shifts roughly during coast down. 				
CAUSE:	Module Software Updates				

This bulletin supersedes Technical Service Bulletin (TSB) 21-017-24 REV. B, date of issue May 08, 2024, which should be removed from your files. All revisions are highlighted with **asterisks**** and include an updated build date, new Customer Symptoms and new LOP.**

REPAIR SUMMARY:

This bulletin involves reprogramming the TCM, Powertrain Control (PCM) and the Auxiliary Hybrid Control Processor (AHCP) also known as Power Inverter Module (PIM), with the latest available software.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-17-AL	Reprogram Powertrain Control (PCM), Transmission Control (TCM), and Hybrid Control Processor/ Auxiliary Hybrid Control Processor (HCP/AHCP) (0 - Introduction)	1 - Engine Repair And Performance	0.7 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:**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: Install a battery charger to ensure sufficient battery voltage is provided during the flash process.

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

CAUTION!!

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

1. Reprogram the PCM with the latest available 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. Reprogram the HCP and AHCP 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.
3. Reprogram the TCM 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.
4. 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.

This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without written permission of FCA US LLC.