



NUMBER: 08-093-22 REV. B

GROUP: 08 - Electrical

DATE: December 2, 2022

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This bulletin supersedes Technical Service Bulletin (TSB) 08-093-22 REV. A, date of issue May 13, 2022, which should be removed from your files. All revisions are highlighted with **asterisks**** and includes an updated build date, Diagnostic Trouble Code (DTC), enhancement, symptom/condition, repair procedure Notes, step and LOP.**

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 22-093, date of issue May 13, 2022. All applicable 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.

SUBJECT:

Flash: Hybrid Control Processor (HCP) Updates

OVERVIEW:

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

MODELS:

2022 (DT) RAM 1500 Pickup

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, Enlarged Europe, India/Asia Pacific, Middle East/Africa and South America.

NOTE: This bulletin applies to vehicles built on or before **September 28, 2022 (MDH 0928XX)**** equipped with a 5.7L V8 HEMI MDS VVT eTorque Engine (Sales Code EZL).**

SYMPTOM/CONDITION:

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

- ****U0402-00 - Implausible Data Received From TCM.****
- P1C64 - Hybrid Perf - Engine Speed Below Target During Autostart.

****In addition, the following software enhancement is available:**

- Engine Stop/Start (ESS) improvements - Improvements to make ESS more smooth/consistent. Customers may complain of rough or inconsistent autostarts.******

The customer may also describe one or more of the following:

- ****Coast down engine idle improvements (related to two-foot driving below 19 kph (12 mph)).****
- During an ESS event, the autostart fails and the AutoPark engages.
- Transmission is in Limp Mode.

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 a customer's VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits the symptom/condition or DTC, perform the repair.

CAUTION! The HCP is flash programmable and is sensitive to cold temperature during module flashing. The HCP will need to be flashed when the vehicle is at room temperature. Failure to flash the module at room temperature can cause the flash procedure to not complete which could suggest an unnecessary component replacement.

REPAIR PROCEDURE:

NOTE: **Upon completion of this HCP flash reprogramming session, please verify that the PCM and TCM ECUs are at the latest updated level before returning the vehicle to customer. This ECU flash file supports new part replacement (generic state) and TSBs, RSUs, CSNs and Recalls may not apply. Please see all applicable service information when replacing an ECU.**

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. Is the vehicle on the RSU VIN list?
 - YES>>> Proceed to [Step 2](#).
 - NO>>> Proceed to [Step 3](#).
2. Does the HCP control module have the latest software already installed?
 - YES>>> This bulletin has been completed. Use inspect LOP (18-19-86-93) to close the active RSU.
 - NO>>> Proceed to [Step 3](#).
3. Reprogram the HCP 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 any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
5. ****Verify the PCM and TCM are programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the PCM and TCM software.****

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-86-93	Processor, Hybrid Control (HCP) - Inspect (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.
18-19-86-94	Processor, Hybrid Control (HCP) - Inspect and Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 2 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

The dealer must choose which failure code to use depending on if this is a Rapid Service Update (RSU) or Technical Service Bulletin.

- The “RF” failure code is required for essential module flash/reprogramming and can only be used after confirmation that the VIN is included on the RSU.
- The failure code “RF” (Required Flash) can no longer be used on Technical Service Bulletin flashes. **The “RF” failure code must be used on an RSU.**
- If the customer’s concern matches the SYMPTOM/CONDITION identified in the Technical Service Bulletin, failure code CC is to be used. When utilizing this failure code, the 3C’s must be supplied.

RF	Required Flash - RSU
CC	Customer Concern