

Technical Service Bulletin (TSB)
Flash: Radio Frequency Hub Module (RFHM) Update

REFERENCE:	TSB: 08-188-23 GROUP 08 - Electrical	Date:	August 2, 2023	REVISION:	—
VEHICLES AFFECTED:	2023 (VF) RAM ProMaster This bulletin applies to vehicles built on and before June 08, 2023 (MDH 0608XX) equipped with the 3.6L V6 24V VVT Engine (Sales Code ERF).			MARKET APPLICABILITY: ☒ NA ☐ EE ☐ SA ☐ IAP ☐ MEA ☐ CH	
CUSTOMER SYMPTOM:	The customer may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following Diagnostic Trouble Code (DTCs): • B1053-64 RFHM (Kin Communication) - Signal Plausibility Failure Set In The RF Hub. • B1A7D-2F Start Button - Signal Erratic. Customers may also experience one or more of the following: • Messages shown on the Instrument Panel Cluster (IPC): • Service Passive Entry Vehicle will not Shut Off or Restart. • To Shut Off Vehicle, See Vehicle Settings (if the vehicle speed is lower than 4 KMH) (2.4 MPH). • Engine will not shut off. • Lamp lit on IPC (Fig. 1) .				
CAUSE:	RFHM software				



Fig. 1
RFHM Lamp

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-232, date of issue August 02, 2023. All applicable 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 updating the RFHM with the latest available software.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-12-AK	Radio Frequency Hub Module (RFHM), Inspect (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.
18-19-12-AL	Radio Frequency Hub Module (RFHM), Inspect and Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.
Failure code	RF	Required Flash	
	CC	Customer Concern	

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.

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 Diagnostic Trouble Codes (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 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: 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 RFHM have the latest software already installed?
 - YES >>> This bulletin has been completed, use inspect LOP (18-19-12-AK) to close the active RSU.
 - NO >>> Update the RFHM software. Proceed to [Step 3](#).

3. Reprogram the RFHM 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.

POLICY:

Reimbursable within the provisions of the warranty.

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