



NUMBER: 08-046-22 REV. A

GROUP: 08 - Electrical

DATE: April 28, 2022

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This bulletin supersedes Technical Service Bulletin (TSB) 08-046-22, date of issue March 04, 2022, which should be removed from your files. All revisions are highlighted with **asterisks**** and include build dates.**

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 21-175, date of issue December 03, 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.

SUBJECT:

Flash: Amplifier (AMP) Diagnostic and System Updates

OVERVIEW:

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

MODELS:

2022 (WS) Grand Wagoneer/Wagoneer

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, APAC, EMEA and LATAM.

NOTE: This bulletin applies to vehicles built on or before **November 19, 2021 (MDH 1119XX)**** equipped with 19 SPKRS High Perf Audio (Sales Code RCA) or 23 SPKR McIntosh Reference Audio Sys (Sales Code RGE).**

SYMPTOM/CONDITION:

The customer may experience one or more of the following:

- Active Noise Cancellation (ANC) drone noise between 950 RPM and 1,000 RPM, during a start up.
- Battery draining.
- Blinking odometer.

Upon further investigation the technician may find the following DTCs have been set:

- The AMP may set B221F-00 (Amplifier Internal) erroneously, it does not affect Active Noise Cancellation (ANC) performance.

NOTE: If B221F-00 is a stored fault update the AMP with appropriate software. If the fault is active, follow normal DTC diagnostics. Use inspection LOP (18-60-07-AF) to close the active RSU.

- B2204-00 - ECU Configuration Mismatch.

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. **This RSU only applies to vehicles on the RSU VIN list.**

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 B221F-00 an active DTC?
 - YES>>> This bulletin does not pertain to the vehicle. Normal diagnostic should be performed. If the vehicle is on the RSU VIN list use inspection LOP (18-60-07-AF) to close the active RSU.
 - NO>>> Proceed to [Step 2](#).
2. Is the vehicle on the RSU VIN list?
 - YES>>> Proceed to [Step 3](#)
 - NO>>> Proceed to [Step 4](#)
3. Does the AMP have the latest software already installed?
 - YES>>> This bulletin has been completed. Use inspect LOP (18-60-07-AF) to close the active RSU.
 - NO>>> Proceed to [Step 4](#).
4. Reprogram the AMP with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
5. 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.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-60-07-AF	Module, Amplifier - Inspect (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.
18-60-07-AK	Module, Amplifier - Inspect and Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.6 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 26 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