STELLANTIS
PARTS & SERVICES

Technical Service Bulletin (TSB)

Flash: Powertrain Control Module (PCM) Updates

REFERENCE:	**TSB:** 18-042-23 **GROUP** 18 - Vehicle Performance	**Date:**	April 1, 2023	**REVISION:**	**18-067-22 REV. B**
VEHICLES AFFECTED:	**2022 (GA) Alfa Romeo Giulia** **This bulletin applies to vehicles built on or after **September 16, 2021 (MDH 0916XX) and built on or before July 20, 2022 (MDH 0720XX)** equipped with a 2.0L 280HP I4 DI Turbo Engine (Sales Code EC2).**			**MARKET APPLICABILITY:** ☒NA ☐MEA ☒SA ☐IAP ☐EE ☐CH	
CUSTOMER SYMPTOM:	**Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following Diagnostic Trouble Codes (DTCs) have been set:** • **P1CEA-00 - Boost Side Evap Purge System Performance.** • P2AC0-00 - Intake Air O2 Sensor Reference Voltage Circuit Range/Performance Bank 1.				
CAUSE:	**PCM Software**				

This bulletin supersedes Technical Service Bulletin (TSB) 18-067-22 REV. B, date of issue May 14, 2022, which should be removed from your files. All revisions are highlighted with **asterisks and include new RSU number, update build date, symptom and LOPs.**

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-099, date of issue April 01, 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 reprogramming the PCM with the latest available software.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
**18-19-06-GY	Module, Powertrain Control (PCM) - Inspect (0 - Introduction)	1 - Engine Repair And Performance	0.2 Hrs.
18-19-06-GZ	Module, Powertrain Control (PCM) - Inspect and Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.4 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 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 PCM have the latest software already installed?
   - YES>>> This bulletin has been completed, use inspect LOP **(18-19-06-GY)** to close the active RSU. Normal diagnosis should be performed.
   - NO>>> Proceed to Step 3.
3. Reprogram the PCM with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.

NOTE: If the phonic wheel replacement procedure is not done correctly, DTC P1300 - Flywheel Self Learning, will stay active.

4. Using wiTECH 2, perform a Body Control Module (BCM) "Proxi Alignment." The procedure is located in BCM under misc. functions.
5. Using wiTECH 2, go into the ECM Misc. Functions tab and perform the "Phonic Wheel Replacement" routine.
6. Fully press the accelerator pedal (bring RPM up to limitation), then release up to idle three times. If the procedure was performed properly the MIL lamp will stop blinking.
7. 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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