STELLANTIS
PARTS & SERVICES

Technical Service Bulletin (TSB)

Flash: Powertrain Control Module (PCM) Updates

REFERENCE:	**TSB:** 18-046-23 **GROUP** 18 - Vehicle Performance	**Date:**	April 14, 2023	**REVISION:**	**18-025-20**
VEHICLES AFFECTED:	**2019 (GA) Alfa Romeo Giulia** **This bulletin applies to vehicles 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 DTCs have been set:** • **P0331-00 - Knock Sensor 2 Circuit Range/Performance.** • P0106-00 - Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance. • P013A-00 - O2 Sensor Slow Response Rich To Lean Bank 1 Sensor 2. • P015A-00 - O2 Sensor Delayed Response Rich To Lean Bank 1 Sensor 1. • P026E-00 - Charge Air Cooler Coolant Pump Performance. • U1008-00 - LIN 1 BUS. • P1CEA-00 - Boost Side EVAP Purge System Performance. **Customers may experience one or more of the following:** • Not passing vehicle certification during state inspections if performed after a system reset. • Drive-ability issues. **In addition, the following improvement is also available:** • Turbo coolant pump after run duration and on-off strategy update, to improve turbo O-ring durability.				
CAUSE:	**PCM Software**				

This bulletin supersedes Technical Service Bulletin (TSB) 18-025-20, date of issue March 25, 2020, which should be removed from your files. All revisions are highlighted with **asterisks and include additional symptom and LOP.**

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-G7	Module, Powertrain Control (PCM) - Inspect and Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.4 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:

NOTE: The Transmission Control Module (TCM) must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the TCM software.

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. 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.

2. Using wiTECH 2, perform a Body Control Module (BCM) "Proxi Alignment." The procedure is located in BCM under misc. functions.
3. Using wiTECH 2, go into the ECM Misc. Functions tab and perform the "Phonic Wheel Replacement" routine.
4. 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.
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.
6. Verify the TCM is programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the TCM software.

POLICY:

Reimbursable within the provisions of the warranty.