# SERVICE BULLETIN

**NUMBER:** 18-098-19

**GROUP:** 18 - Vehicle Performance

**DATE:** December 14, 2019

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***SUBJECT:***
Flash: Powertrain Control Module (PCM) Updates

***OVERVIEW:***
This bulletin involves reprogramming the Engine Control Module (ECM), also known as a PCM with the latest available software.

***MODELS:***

| | | |
|---|---|---|
| 2019 | (GA) | Alfa Romeo Giulia |

**NOTE: This bulletin applies to vehicles within the following markets/countries: North America.**

**NOTE: This bulletin applies to vehicles built on or before October 10, 2019 (MDH 1010XX) equipped with a 2.0L I4 DI Turbo Engine (Sales Code EC2).**

***SYMPTOM/CONDITION:***
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:

- 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 also 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.

***DIAGNOSIS:***
Using a Scan Tool (wiTECH 2) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If any 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 the customer describes the symptom/condition listed above, perform the Repair Procedure.

***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 ECM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. Using wiTECH 2, perform a ″Body Control Module (BCM) Proxi Alignment Procedure″ located in BCM under misc. functions.

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

3. Go into the ECM Misc. Functions tab and perform the following procedure:
   - "Phonic Wheel Replacement".
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.
5. 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.

***TIME ALLOWANCE:***

| Labor Operation No: | Description | Skill Category | Amount |
|---|---|---|---|
| 18-19-06-AV | Module, Engine Control (ECM) - Reprogram and Perform Phonic Wheel Replacement Routine (0 - Introduction) | 1 - Engine Repair and Performance | 0.4 Hrs. |

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 9 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.**

***FAILURE CODE:***

**The dealer must use failure code CC with this Service Bulletin.**

- If the customer's concern matches the SYMPTOM/CONDITION identified in the 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 Service Bulletin flash/reprogramming conditions.

| | |
|---|---|
| CC | Customer Concern |