



NUMBER: 18-030-17

GROUP: Vehicle Performance

DATE: March 23, 2017

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FOR HELP WITH USING wiTECH FOR ECU FLASH REPROGRAMMING, CLICK ON THE APPLICATION'S "HELP" TAB.

THE wiTECH 2 SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.

SUBJECT:

Flash: Powertrain Diagnostic and System Improvements

OVERVIEW:

This bulletin involves reprogramming the Engine Control Modules (ECM), also known as Powertrain Control Module (PCM) with the latest available software.

MODELS:

2017 (GA) Alfa Romeo Giulia

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA.

NOTE: This bulletin applies to vehicles built on or before February 27, 2017 (MDH 0227XX) 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:

- P0440 - Evaporative Emission System Incorrect Flow.
- P0441 - Evaporative Emission System Incorrect Purge Flow.
- P0002 - Fuel Quantity Regulator 1 Control Circuit Performance.
- P0244 - Turbocharger/Supercharger Wastegate Solenoid "A" Range/Performance.
- P062A - Fuel Pump "A" Control Circuit Range/Performance.
- P0128 - Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature).

- P0514 - Battery Monitor Module Temperature Monitoring Performance.
- P2AC0 - Intake Air O2 Sensor Reference Voltage Circuit Range/Performance Bank 1.
- P0402 - Exhaust Gas Recirculation "A" Flow Excessive Detected.
- P2B89 - Intake Air O2 Sensor Circuit Low Voltage.
- P0456 - Evaporative Emission System Leak Detected (Very Small Leak).

DIAGNOSIS:

Using a Scan Tool (wiTECH 2) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If any 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 symptom/conditions listed above, or if the technician finds any of the DTCs, perform the Repair Procedure.

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. Check for the vehicle having the latest ECM software level.
2. 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.
3. Using wiTECH 2, go into the ECM Misc. Functions tab and perform the following procedure, Phonic wheel replacement.

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

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.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-QU	Module, Engine Control (ECM) - Inspect and Reprogram (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
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