



**NUMBER:** 18-088-19

**GROUP:** 18 - Vehicle Performance

**DATE:** November 1, 2019

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**SUBJECT:**

Flash: Powertrain Control Module (PCM) Updates

**OVERVIEW:**

This bulletin involves reprogramming both the Primary and Secondary (ECM2) Engine Control Modules (ECMs) also known as Powertrain Control Modules (PCMs) with the latest available software.

**MODELS:**

2019 (GU) Alfa Romeo Stelvio

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

**NOTE:** This bulletin applies to vehicles built on or before May 06, 2019 (MDH 0506XX) and equipped with a 2.9L 505 HP V6 Twin-Turbo Engine (Sales Code EED).

**SYMPTOM/CONDITION:**

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that one or more of the following Diagnostic Trouble Codes (DTCs) have been set:

- P032D-00 - Knock Sensor 3 Circuit High.
- P008A-00 - Low Pressure Fuel System Pressure - Too Low.
- P034C-00 - ION Sense System Performance.

**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 any DTCs or symptom conditions, other than the one listed above is 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 or if the technician finds the DTC, perform the Repair Procedure.

**REPAIR PROCEDURE:**

**NOTE:** This vehicle has two ECMs (Primary and Secondary). Both must be updated to the latest available software. The Primary ECM must be programmed first then the Secondary ECM2 (both known as PCMs).

**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 the vehicle for having the latest ECM and ECM2 software levels.
2. Reprogram the ECM (Primary) 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. Reprogram the ECM2 (Secondary) with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
4. Perform the control unit reprogramming routine in wiTECH located in the ECM "Misc. Functions" menu tab.
5. Perform the control unit reprogramming routine in wiTECH located in the ECM2 "Misc. Functions" menu tab.

**NOTE:** Before performing the next two steps, the ignition must be in the on position, engine off and engine temperature must be above 80 °C (176 °F).

6. Perform the oil level sensor replacement in wiTECH located in the ECM2 "Misc. Functions" menu tab.
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.

**TIME ALLOWANCE:**

| Labor Operation No: | Description                                                                    | Skill Category                    | Amount   |
|---------------------|--------------------------------------------------------------------------------|-----------------------------------|----------|
| 18-19-06-B9         | Module(s), Engine Control (ECM) - Reprogram (ECM & ECM2)<br>(0 - Introduction) | 1 - Engine Repair and Performance | 0.7 Hrs. |

**NOTE:** The expected completion time for the flash download portion of this procedure is approximately 7 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 |
|----|------------------|