

Technical Service Bulletin (TSB)

Flash: Transmission Control Module (TCM) Updates - P0610 - ECU Vehicle Options Mismatch

REFERENCE:	TSB: 21-046-24 REV. A GROUP: 21 - Transmission and Transfer Case	Date:	September 14, 2024	REVISION:	21-046-24
VEHICLES AFFECTED:	2024 (GC) Alfa Romeo Tonale This bulletin applies to vehicles built on or before April 17, 2024 (MDH 0417XX) equipped with a 1.3L I4 Turbo PHEV Engine (Sales Code EYG).			MARKET APPLICABILITY: ☒ NA☐ MEA ☐ SA☐ IAP ☐ EE☐ CH	
CUSTOMER SYMPTOM:	Technicians must experience a Malfunction Indicator Lamp (MIL) illumination and the vehicle must exhibit/set the following Diagnostic Trouble Code (DTC): P0610 - ECU Vehicle Options Mismatch.				
CAUSE:	TCM software				

This bulletin supersedes Technical Service Bulletin (TSB) 21-046-24, date of issue July 25, 2024, which should be removed from your files. Revisions include removal of a Customer Symptom Note not highlighted with ****asterisks**** and additional Repair Procedure steps highlighted with ****asterisks**** and new LOP.

REPAIR SUMMARY:

This bulletin involves reprogramming the TCM with the latest available software.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-05-16	Module, Transmission Control (TCM) - Reprogram (0 - Introduction)	2 - Automatic Transmission	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.

RELATED LOP:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-87-53	WiTech Routine to Disable/Enable HV Battery Contactors for Service (0 - Introduction)	2 - Automatic Transmission	0.2 Hrs.

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: 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.

WARNING!

The vehicle must not be connected to a high voltage charger when performing software updates.

CAUTION!

Removal of the Brake Booster Vacuum Pump is necessary for this Repair Procedure. Failure to remove the 30 Amp fuse may result in damage to the Brake Booster Vacuum Pump.

1. **Disable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Disable HV Battery Contactors --> then follow the wiTECH prompts.
2. Use wiTECH to confirm that the contactors are open and waiting five minutes. If the contactors do not open turn the ignition on then off. Once successful a note will appear on the wiTECH screen indicating the contactors are open.**
3. Remove the 30 Amp fuse for the Brake Booster Vacuum Pump from the Power Distribution Center (PDC) located in the engine compartment.
4. Reprogram the TCM with the latest available software. If issues arise when flashing a module using the wiTECH Diagnostic Application, please submit a ticket to the Helpdesk. The helpdesk can be found within the Help menu.
5. Install the 30 Amp Brake Booster Vacuum Pump fuse.
6. 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.

7. Using wiTECH, perform a "Proxi Configuration Alignment" under "BCM" and "Miscellaneous Functions".
8. **Enable HV Battery Contactors using wiTECH - Go to the Misc Functions tab --> Select Enable HV Battery Contactors For Service--> then follow the wiTECH prompts.**

POLICY:

Reimbursable within the provisions of the warranty.

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