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GROUP: Vehicle Performance

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HELP USING THE wiTECH DIAGNOSTIC APPLICATION FOR FLASHING AN ECU IS AVAILABLE BY SELECTING “HELP” THEN “HELP CONTENTS” AT THE TOP OF THE wiTECH DIAGNOSTIC APPLICATION WINDOW.

THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 14.02 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

Flash: Engine Crank, No Start and/or Malfunction Indicator Lamp (MIL) Illumination

OVERVIEW:

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software.

MODELS:

2012 (FF) 500/Abarth

NOTE: This bulletin applies to vehicles equipped with a 1.4L engine (sales code EAB or EAF).

SYMPTOM/CONDITION:

Customers may complain of an intermittent crank, no start condition. The customer may also indicate the engine sounds like it is freewheeling or has no compression. When this issue occurs, it is typically resolved with a simple ignition key cycle.

A small number of customers may also experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the Technician may find that the following Diagnostic Trouble Code (DTC) has been set:

- P2299 - Brake Pedal Position/ Accelerator Pedal Position Incompatible

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTC's other than the one listed above are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition or if the technician finds the DTC, perform the Repair Procedure.

SPECIAL TOOLS/EQUIPMENT REQUIRED:

Qty.	Part No.	Description
1	410	wiTECH Smart Cable

NOTE: The smart cable must be used to communicate and flash the Fiat 500. To obtain a smart cable, contact the wiTECH help desk at 1-888-948-3241.

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. Reprogram the PCM with the latest software. Help using the wiTECH Diagnostic Application for flashing control modules is available through the wiTECH Diagnostic Application. For instructions select the "HELP" tab on upper portion of the wiTECH window, then "HELP CONTENTS". This will open the Welcome to wiTECH Help screen where help topics can be selected.
2. Perform Cruise Control Learn Procedure.
 - a. Turn Ignition Key to the OFF/LOCK position for 10 seconds to allow the module to power down.
 - b. Turn Ignition Key to the ON/RUN position.
 - c. Press, then release the Cruise ON/OFF button on the steering wheel.
 - d. Start Engine.
 - e. Press the Cruise ON/OFF button to verify that the Cruise indicator illuminates on the cluster.
3. Is vehicle equipped with a manual transmission?
 - a. Yes >>> DTC P1302 - Transmission Self Learning will be present. **Depress clutch pedal fully to allow DTC to store**, proceed to Step 4.
 - b. No >>> DTC P1302 - Transmission Self Learning will be stored, proceed to Step 4.
4. **After PCM reprogramming, the following must be performed:** clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-Y7	Module, Powertrain Control (PCM) - Reprogram (1 - Semi-Skilled)	8 - Engine Performance	0.3 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 15 minutes. Actual flash download times may be effected by vehicle connection and network capabilities.

FAILURE CODE:

FM	Flash Module
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