



NUMBER: 18-028-13 REV. A
GROUP: Vehicle Performance
DATE: September 06, 2013

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-028-13, DATED JULY 12, 2013, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND THE AUTHORIZATION LABEL REQUIREMENTS HAVE BEEN REMOVED.**

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 **14.01**** OR HIGHER TO PERFORM THIS PROCEDURE.**

SUBJECT:

Flash: MIL Illumination P1CEA- Boost Side Evap Purge System Performance, P0456- Evap System Small Leak or P0128- Thermostat Rationality

OVERVIEW:

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

MODELS:

2013 (FF) Fiat 500/Abarth (Hatchback only)

NOTE: This bulletin applies to vehicles equipped with a 1.4L engine (sales code EAF) built on or before February 14, 2013 (MDH 0214XX).

SYMPTOM/CONDITION:

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

- P1CEA- Boost Side Evap Purge System Performance
- ****P0456- Evap System Small Leak****
- ****P0128- Thermostat Rationality****

Updating the PCM software will correct the condition listed above.

DIAGNOSIS:

Using a Scan Tool (wiTECH w/Smart Cable 410) and appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If

DTC's are present other than the ones listed above, 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's, 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. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical > Electronic Control Modules - Service Information > Module - Powertrain Control > Standard Procedures > PCM/ECM Programming.
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. Perform TLC Relearn Procedure.
 - a. Select PCM from Vehicle View.
 - b. Select the Misc. Functions Tab.
 - c. Set parking brake and start the engine.
 - d. Select the "Clear Mis-fire TLC" function and verify the Misfire TLC has been cleared.
 - e. Select the Monitors drop down list (top of wiTECH) and select "OBDII Monitors".
 - f. Select the "Mis-fire Mon SWC" screen.
 - g. While watching the "Mis-fire Mon SWC" screen, allow the engine to warm up until coolant temp has reached 140°F (60°C).
 - h. Once coolant temp reaches 140°F (60°C), perform a 6000 RPM wide open throttle stab and let RPM return to idle.

- i. Verify that the Mis-fire Monitor Status on the "Mis-fire Mon SWC" screen has changed from "**Waiting**" to "**In Progress**". If 6000 RPM was not achieved, then perform Step H again.
- 5. **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-V5	Module, Powertrain Control (PCM) - Reprogram (1 - Semi-Skilled)	8 - Engine Performance	0.3 Hrs.

FAILURE CODE:

FM	Flash Module
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