



**NUMBER:** 18-004-13

**GROUP:** Vehicle Performance

**DATE:** January 19, 2013

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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 13.02 OR HIGHER TO PERFORM THIS PROCEDURE.**

**SUBJECT:**

Flash: A/C and Drivability Improvements

**OVERVIEW:**

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

**MODELS:**

2013                      PF                                      Dart

**NOTE: This bulletin applies to vehicle equipped with a 1.4L engine (Sales Code EAF), the C635 manual transmission (Sales Code DE1), and 50 State Emissions (Sales Code NAS) built between May 3, 2012 (MDH 0503XX) and July 19, 2012 (MDH 0719XX).**

**SYMPTOM/CONDITION:**

Customers may experience any or all of the following symptoms/conditions:

- A noticeable reduction in A/C performance during hard accelerations.
- 25 - 50 RPM engine instability at idle.
- Hesitation in reverse at low speeds.
- Performance derate at high altitude (greater than 6,000 feet) or in temperatures above 90°F. (32°C.).
- A/C engagement Bump while accelerating at temperatures above 90°F. (32°C.).
- Surge during accelerating.
- Buck/bobble after shifting the transmission and/or accelerator pedal tip in/tip out.

Updating the software will correct the conditions listed above.

**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.

**PARTS REQUIRED:**

Qty.	Part No.	Description
1	04275086AD	Label, Authorized Modification

**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.

**NOTE: The following MUST be performed once the PCM has been flashed.**

2. Turn the ignition key "Off" for a minimum of **10 seconds** to allow module to update and power down.
3. Turn the ignition Key "On" .
4. Using wiTECH at the home screen select PCM.
5. DTC P1302 - Transmission Self Learning will be present. **Depress the clutch fully to allow DTC to store.**
6. Perform Cruise Control Learn Procedure.
  - a. Press, then release the Cruise ON/OFF button on the steering wheel.
  - b. Start Engine.
  - c. Press the Cruise ON/OFF button to verify that the Cruise indicator illuminates on the cluster.
7. 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.

- 8. 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.
- 9. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
18-19-06-T4	Module, Powertrain Control (PCM) - Reprogram (1 - Semi Skilled)	0.3 Hrs.

**FAILURE CODE:**

FM	Flash Module
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