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GROUP: Vehicle Performance

DATE: May 10, 2014

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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 14.03 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

Flash: MIL Illumination. Includes Various Driveability Improvements

OVERVIEW:

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

MODELS:

2014 (PF) Dart

NOTE: This bulletin applies to vehicles equipped with a 1.4L engine (sales code EAF) built on or before March 25, 2014 (MDH 0325XX).

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 Code has been set:

- P061A- Level 2 torque performance

Customers may also experience any of the following symptoms:

- Engine difficult to restart after cold or warm soak periods.
- Intermittent high coolant temp warning lamp illumination when using cruise control **(This condition occurs in conjunction with the P061A DTC listed above).**
- Poor A/C performance primarily during extended hot idle and/or low speed driving conditions **(Applies to vehicles built with 1234YF refrigerant (sales code XFC)).**

Updating the PCM software will correct the conditions listed above.

DIAGNOSIS:

Using a Scan Tool (wiTECH) and 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.

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.

NOTE: If engine RPM does not increase above 4000 RPM when performing Step 4.h, TLC has already been learned.

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
18-19-06-9D	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 7 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

FM	Flash Module
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