



NUMBER: 18-020-15 REV. B

GROUP: Vehicle Performance

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-020-15 REV. A, DATED AUGUST 27, 2015, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS AND INCLUDE UPDATED SYMPTOM/CONDITION AND LOP.**

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 IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.

SUBJECT:

Flash: Driveability Enhancements

OVERVIEW:

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

MODELS:

2012 - 2013 (PF) Dodge Dart

NOTE: This bulletin applies to vehicles built on or before October 12, 2013 (MDH 1012XX) equipped with a 1.4L Engine (Sales Code EAF).

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 (DTCs) have been set:

- P1128 - Closed Loop Fueling Not Achieved - Bank 1 Upstream
- P1D73 - 00 - AGS Performance
- P1CEA - Boost Side Evap Purge System Performance
- P0456 - Evap System Small Leak

Customers may also experience any of the following symptoms:

- ****Customer experiences cold start issues below 14°F (-10°C) ambient temperatures; engine turns over faster (loss of compression) during crank and possibly does not start until a key cycle is performed.****
- Engine cranks as if it has no compression.
- Engine sounds like it is knocking at idle, noise goes away when off idle.
- Spark knock when using low octane fuel in the vehicle.
- Black smoke from tail pipe on initial start up during cold ambient temperatures.
- Uneven acceleration feeling under moderate to heavy throttle input.
- Bump or surge noticed prior to engine reaching normal operating temperature.
- Rough idle during A/C engagement/disengagement.
- During periods of extended idle or short hot soak events and ambient temperatures below 15°F (-9°C), engine idle speed may increase to 1800 RPM if coolant temperature drops below 158°F (70°C). Condition is only present when the transmission is in park.
- **Low speed engine response improvements in city and traffic driving conditions.**

Updating the PCM software will correct the condition 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 DTCs other than the ones 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 DTCs, 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 available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the "HELP" tab on the 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 the Ignition Key to the OFF/LOCK position for 10 seconds to allow the module to power down.
 - b. Turn the Ignition Key to the ON/RUN position.
 - c. Press, then release the Cruise ON/OFF button on the steering wheel.
 - d. Start the 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. Clear any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-EV	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	8 - Engine Performance	0.3 Hrs

NOTE: The expected completion time for the flash download portion of this procedure is approximately 6 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

The dealer must choose which failure code to use. If the customer came in with an issue and the dealer found updated software to correct that issue, use failure code CC, for all other use failure code RF.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used.
- If an available flash is completed while addressing a different customer concern, failure code RF is to be used.

CC	Customer Concern
RF	Routine Flash