



NUMBER: 18-021-14

GROUP: Vehicle Performance

DATE: March 26, 2014

This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without written permission of Chrysler Group LLC.

THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-045-13 REV. A, DATED OCTOBER 26, 2013 AND SERVICE BULLETIN 18-046-13, DATED OCTOBER 3, 2013 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS****.**

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 13-079. ALL APPLICABLE SOLD AND UN-SOLD RRT VIN'S HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

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 P0456- Evap System Small Leak. Also Includes Various Driveability Enhancements

OVERVIEW:

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

NOTE: Both the PCM and TCM must be up to date for these changes to be effective.

MODELS:

2013 (PF) Dart

NOTE: **This bulletin applies to vehicles equipped with a 2.0L engine (sales code ECK) and a 6 Speed Automatic Transmission (sales code DA4) or a Manual Transmission (sales code DE1).******

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 (DTC) has been set:

- P0456 - Evap System Small Leak

Customers may also experience any of the following conditions:

- ****Throttle may feel touchy or jumpy at low vehicle speeds (**Applies only to Automatic Transmission**)****
- Engine may be difficult to start and/or re-start when operating in temperatures below 32°F(0°C)

Driveability and Transmission Enhancements are also included with this software release. These changes include the following:

- ****Transmission shifting improvements when using cruise control (**Applies only to Automatic Transmission**)****
- Improved evap purge strategy under high ambient temperatures
- ****Improved engine oil pressure sensor accuracy****

Updating the PCM and TCM 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 ones listed above are present, record them on the repair order and repair as necessary before proceeding further with this bulletin.

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition or if the technician finds the listed DTC, perform the Repair Procedure.

REPAIR PROCEDURE:

NOTE: Both the PCM and TCM must be up to date for these changes to be effective.

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. Reprogram the **TCM** 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. (**Applies only to Automatic Transmission**)

- 3. **After reprogramming both modules, 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-X6	Module, Powertrain Control (PCM) and Transmission Control (TCM) - Reprogram (1 - Semi-Skilled) Vehicles equipped with Auto Trans(DA4)	8 - Engine Performance	0.3 Hrs.
18-19-06-W9	Module, Powertrain Control (PCM) - Reprogram (1 - Semi-Skilled) Vehicles equipped with Manual Trans(DE1)	8 - Engine Performance	0.2 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 5 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

FM	Flash Module
----	--------------