



**NUMBER:** 18-012-19 REV. C

**GROUP:** 18 - Vehicle Performance

**DATE:** August 14, 2019

*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 FCA US LLC.*

**This bulletin supersedes Service Bulletin 18-012-19 REV. B, dated July 04, 2019, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include an additional market, an updated build date, Diagnostic Trouble Codes (DTCs) and LOP.**

**This Service Bulletin is also being released as Rapid Response Transmittal (RRT) 19-051, dated July 04, 2019. All applicable Sold and UnSold RRT VINs have been loaded. To verify this RRT service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty (APAC Region Only).**

**SUBJECT:**

Flash: Powertrain Control Module (PCM) Updates

**OVERVIEW:**

This bulletin involves reprogramming the PCM with the latest available software.

**MODELS:**

2019 (JL) Jeep Wrangler

**NOTE: This bulletin applies to vehicles within the following markets/countries: **\*\*North America\*\***, APAC, EMEA and LATAM.**

**NOTE: This bulletin applies to vehicles built on or after **\*\*January 07, 2019 (MDH 0107XX)\*\*** and or before April 22, 2019 (MDH 0422XX) equipped with a 2.0L I4 DOHC DI Turbo Engine W/ESS (Sales Code EC1).**

**SYMPTOM/CONDITION:**

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that one or more of the following DTCs have been set:

- **\*\*P050B - Cold Start Ignition Timing Performance.**
- P0456 - EVAP System Small Leak.
- P0128 - Thermostat Rationality.**\*\***

The following software enhancement is included:

- Enable Soot Retention for vehicles equipped with Gasoline Particulate Filter (GPF).

Customer or technician may also experience the following:

- Unable to read data information from the OBD II connector when using a generic scan tool **(APAC Only).**

**DIAGNOSIS:**

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed are present, record the issues 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. If any vehicle not on the VIN list exhibits the symptom/condition or DTC, perform the repair.

**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. Is the vehicle on the RRT VIN list?
  - YES>>> Proceed to [Step 2](#) of the Repair Procedure.
  - NO>>> Proceed to [Step 3](#) of the Repair Procedure.
2. Does the PCM have the latest software already installed?
  - YES>>> This bulletin has been completed, use inspect LOP (18-19-06-9Q) to close the active RRT.
  - NO>>> Proceed to [Step 3](#) of the Repair Procedure.
3. Reprogram the PCM with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
4. Clear any DTCs that may have been set in any 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
18-19-06-9Q	Module, Powertrain Control (PCM) - Inspect (0 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.
**18-19-06-AC	Module, Powertrain Control (PCM) - Inspect and Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.2 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:**

The dealer must choose which failure code to use depending on if this is a Rapid Response Transmittal (RRT) or Service Bulletin.

- The “RF” failure code is required for essential module flash/reprogramming and can only be used after confirmation that the VIN is included on the RRT.
- The failure code “RF” (Required Flash) can no longer be used on Service Bulletin flashes. **The “RF” failure code must be used on an RRT.**
- If the customer’s concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used. When utilizing this failure code, the 3C’s must be supplied.

RF	Required Flash - RRT
CC	Customer Concern