



NUMBER: 08-051-17

GROUP: 08 - Electrical

DATE: June 23, 2017

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FOR HELP WITH USING wiTECH FOR ECU FLASH REPROGRAMMING, CLICK ON THE APPLICATION'S "HELP" TAB.

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

SUBJECT:

Flash: Electronic Shift Module (ESM) System Improvements

OVERVIEW: This bulletin involves updating the ESM software and if necessary replacing the lower shifter or "PRNDM".

MODELS:

2016 - 2017 (WK) Jeep Grand Cherokee

NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA, APAC, EMEA and LATAM.

NOTE: This bulletin applies to vehicles built on or before January 30, 2017 (MDH 0130XX).

SYMPTOM/CONDITION:

The customer may experience the following:

- Shifter lever is locked in park (occurs intermittently upon start up). After 2.5 minutes shifter becomes responsive and functions as designed.
- Service shifter warning indicator in cluster is illuminated.
- "PRNDM" display on the shifter does not illuminate.

NOTE: If PRNDM is not illuminated, the memory has been corrupted to the point that this flash will NOT repair the PRNDM and it would need replacement. Replace the PRNDM in the shifter bezel. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>21 - Transmission and Transfer Case/Automatic - 8HP70/Shifter, Transmission/Removal/Installation.

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following stored Diagnostic Trouble Codes (DTCs) set:

- U1465-00 - Implausible Driver Shift Request Signal Received.
- U1466-00 - Implausible Driver Shift Request Signal Received On DPT CAN.
- U1267-00 - No Valid Data From Esm On CAN-C or CAN-DPT.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1 (AR)	04670682AG	ESM, Lower Shifter
1 (AR)	68253107AC	ESM, PRNDM (Base model)
1 (AR)	68286830AD	ESM, PRNDM (SRT model)

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.

NOTE: After the wiTECH flash is complete, wait 2.5 minutes for shifter to upgrade PRNDM software. Shifter will not function and the PRNDM will not illuminate during this time.

1. Reprogram the ESM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. After flash is complete wait 2.5 minutes have past,
3. 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.
4. If the shifter is still unresponsive the lower shifter must be replaced. Replace the lower shifter. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info>21 - Transmission and Transfer Case/Automatic - 8HP50/Shifter, Transmission/Removal/Installation.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-15-95	Module, Electronic Shift (ESM) - Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 2 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

The dealer must use failure code CC with this Service Bulletin.

- 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 (customer's concern, cause and correction) must be provided for processing Service Bulletin flash/reprogramming conditions.

CC	Customer Concern
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TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-19-77-93	Module, Electronic Shift Lower (ESM) - Replace (2 - Skilled)	6 - Electrical and Body Systems	0.3 Hrs.
08-19-77-94	Module, Electronic Shift Upper PRNDM (ESM) - Replace (2 - Skilled)	6 - Electrical and Body Systems	0.3 Hrs.

FAILURE CODE:

ZZ	Service Action
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