

**SUBJECT****FC 481B05: EKP, Pump Insufficient Speed****MODEL**

F80 (M3)

F82 (M4 Coupe)

F83 (M4 Convertible)

Produced from 03/2014 to 04/2015

**SITUATION**

The customer may complain about any of the following:

- Reduced engine performance when driving
- Engine jerking/bucking
- Engine no-start condition

The Check Control messages “Fuel pump/drive with care” and “Engine fault/reduced power” are displayed in the CC. The fault code 481B05 (Pump speed/fuel pump control insufficient) is stored in the EKP module.

**CAUSE**

Electric fuel pump control module (EKP)

**PROCEDURE**

Perform ISTA/D diagnosis; run through the corresponding test plan. Replace the EKP control module following Repair Instruction 16 14 500, “Remove and refit/replace EKP control module.”

Restart the engine and then perform an ISTA short test again. If the EKP fault code 481B05 is NOT stored again, the vehicle has been repaired and may be released.

If any of the EKP fault codes are present, work through the corresponding ISTA/D test plan. Most likely, replacement of the electric fuel pump will be necessary.

**PARTS INFORMATION**

Part Number	Description	Quantity
16 14 7 398 495	EKP module	1

**WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

<b>Defect Code:</b>	<b>16 14 06 12 00</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle

		diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery”)
And, as necessary		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 61 00 006 is not considered a Main labor operation. However, it does require an individual punch time and an explanation in the claim comments section.

And, if required:

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
16 14 500	Refer to KSD2	Removing and installing or replacing control unit for electric fuel pump (EKP)

### Other Repairs

If performing ISTA diagnostics and related test plans results in other eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

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