SI B37 02 14
Special Suspension Systems

June 2016
Technical Service

Service Action: Program Variable Damper Control (VDC) Unit

New information provided by this revision is preceded by this symbol UPDATE! .

This Service Information bulletin supersedes SI 37 02 14 **dated September 2015.**

PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.

MODEL

F15 (X5)

SITUATION

Unfavorable tolerances for the plug-in connections of the wheel acceleration sensors may result in fault code memory entries and the VDC being deactivated. If the VDC control unit identifies an implausable value from one of the wheel acceleration sensors, the VDC will be deactivated and the driver is informed by a Check Control message. The vehicle then defaults to the conventional suspension.

AFFECTED VEHICLES

This Service Action involves F15 vehicles produced from December 2, 2013 to August 23, 2014.

PROCEDURE

Perform the vehicle test and read the VDC fault code memory. If any of the relevant VDC fault codes are present:

1. **Fault codes stored for the front axle:**

   482940 – Wheel acceleration sensor – front left – sensor 1 – value – above threshold, and/or

   482941 – Wheel acceleration sensor – front left – sensor 1 – value – below threshold, and/or

   482943 – Wheel acceleration sensor – front left – sensor 1 – value – implausible, and/or

   482944 – Wheel acceleration sensor – front right – sensor 2 – value – above threshold, and/or

   482945 – Wheel acceleration sensor – front right – sensor 2 – value – below threshold, and/or

   482947 – Wheel acceleration sensor – front right – sensor 2 – value – implausible,

   Replace **both** wheel acceleration sensors on the **front axle** with repair kit P/N 37 14 6 875

051 as per Repair Instructions REP 37 14 605 (vehicles up to 01/2015).

Program and code the entire vehicle using the latest version ISTA/P (2.54.1 or 3.54.1).
Target integration level: F025-14-11-502.

Fault codes stored for the rear axle:

482948 – Wheel acceleration sensor – rear left – sensor 3 – value – above threshold, and/or

482949 – Wheel acceleration sensor – rear left – sensor 3 – value – below threshold, and/or

48294B – Wheel acceleration sensor – rear left – sensor 3 – value – implausible, and/or

48294C – Wheel acceleration sensor – rear right – sensor 4 – value – above threshold, and/or

48294D – Wheel acceleration sensor – rear right – sensor 4 – value – below threshold, and/or

48294F – Wheel acceleration sensor – rear right – sensor 4 – value – implausible,

Replace **all** wheel acceleration sensors on the **front and rear axles** with both repair kits, P/N 37 14 6 875 051 **AND** 37 14 6 875 052 as per Repair Instructions REP 37 14 605 (vehicles up to 01/2015) and REP 37 14 606 (vehicles up to 01/2015).

Program and code the entire vehicle using the latest version ISTA/P (2.54.1 or 3.54.1).
Target integration level: F025-14-11-502.

2. **In case NO fault codes are stored in the VDC unit:**

Program and code the entire vehicle using the latest version ISTA/P (2.54.1 or 3.54.1)

Target integration level: F025-14-11-502.

Note that ISTA/P will automatically reprogram and code all programmable control modules that do not have the latest software. For information on programming and coding with ISTA/P, refer to CenterNet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

Always connect a BMW approved battery charger / power supply (SI B04 23 10).

PARTS INFORMATION

Part Number	Description	Quantity
	Only as required	
	Depending on fault code memory entry. **Note:** rear axle fault code requires both kits.	
37 14 6 875 051	Front axle acceleration sensor kit	1

| 37 14 6 875 052 | Rear axle acceleration sensor kit | 1 |

WARRANTY INFORMATION

Reimbursement for this Service Action will be via normal claim entry utilizing the following information:

| UPDATE! Defect Code: | 00 37 15 01 00 | |

UPDATE! **No repair necessary**

UPDATE! Labor Operation:	UPDATE! Labor Allowance:	UPDATE! Description:
00 63 950	Refer to KSD2	Programming and coding was performed previously in conjunction with another campaign or repair (vehicle is already at the specified "Target" integration level or higher, no repair is necessary) (Plus work)

Or:

Labor Operation:	Labor Allowance:	Description:
00 62 862	Refer to KSD2	Read the fault code memory and program the vehicle (includes connecting an approved battery charger/power supply and performing a vehicle test)
Or:		
00 62 863	Refer to KSD2	Read the fault code memory, replace both wheel acceleration sensors on the front axle and program the vehicle (includes connecting an approved battery charger/power supply and performing a vehicle test)
Or:		
00 62 864	Refer to KSD2	Read the fault code memory, replace all wheel acceleration sensors and program the vehicle (includes connecting an approved battery charger/power supply

		and performing a vehicle test)

The labor operation codes listed above are Plus labor operations.

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

UPDATE! Vehicle Programming and Coding

Control module failures that occur during programming:

- Please claim these consequential repairs under the defect code listed in this bulletin and use the applicable KSD2 labor operations.

UPDATE! Other Repairs

Control module failures that occur prior to programming:

- When covered under an applicable limited warranty, claim these repairs using the applicable defect code and labor operations in KSD2.