

**SUBJECT****Power-Assisted Steering Failure****SB-10057531-7850****MODEL**

F22 (2 Series Coupe)

F30 (3 Series Sedan)

F31 (3 Series Sport Wagon)

F32 (4 Series Coupe)

F34 (3 Series Gran Turismo)

F36 (4 Series Gran Coupe)

SITUATION

The power-assisted steering fails with a warning lamp in the instrument cluster or a check control message in the Central Information Display. In some cases, the Dynamic Stability Control warning lamp (DSC) in the instrument cluster may also be illuminated.

CAUSE

Failure of the power-assisted steering may be caused by various software-related issues.

The following codes may be stored in the fault memory of the Electric Power Steering (EPS):

Scenario 1: 0x4823E1

Scenario 2: 0x4823CB/0x4823CC

Scenario 3: 0x4823D2 and/or 0x4823EC

Scenario 4: 0x48239C (DSC warning lamp lights up in the instrument cluster)

Scenario 5: No communication with the EPS is possible (not accessible using diagnostics)

Scenario 6: 0x4823EE and 0x4823C2

CORRECTION

Run diagnostics with the latest version of ISTA/D to read stored fault codes

Scenario 1: (0x4823E1)

Program the vehicle with ISTA/P 2.51.2 (target I-Level F020-13-11-502), or a more recent version.

Scenario 2: (0x4823CB / 0x4823CC)

Program the vehicle with ISTA/P 2.52.0 (target I-Level F020-14-03-502), or a more recent version.

Scenario 3: (0x4823D2 and/or 0x4823EC)

Program the vehicle with ISTA/P 2.51.2 (target I-Level F020-13-11-502), or a more recent version.

Scenario 4: (0x48239C)

For this fault code memory, the DSC warning lamp lights up in the instrument cluster. The power-assisted steering is working, but the DSC is not fully functional (although ABS is still operational). Program the vehicle with ISTA/P 2.51.2 (target I-Level F020-13-11-502), or a more recent version.

Scenario 5: (No communication with the EPS possible)

The vehicle cannot communicate with the EPS (not accessible using diagnostics). Disconnect the battery for at least ten minutes and then reconnect it. The EPS is then accessible again. Then program the vehicle using ISTA/P 2.52.0 (target I-Level F020-14-03-502), or a more recent version.

Scenario 6: (0x4823EE and 0x4823C2)

Perform the "Starting Steering" test plan (AT3244_EPS_ZF1_INBTR) from the Service Functions and then switch the ignition off and on again. Read the fault code memory again, and then clear it. Do not replace the EPS unit for this condition.

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).

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty or the BMW Certified Pre-Owned Program.

Defect Code:	32 13 02 14 00	
Labor Operation:	Labor Allowance:	Description:
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:		
61 00 730	Refer to KSD2	Programming/encoding control unit (s)

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Or:

Scenario 5

Also claim:

Labor Operation:	Labor Allowance:	Description:

61 20 900	Refer to KSD2	Disconnecting and connecting battery negative cable
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If a control module or component was working properly and/or had no related faults stored prior to vehicle programming and it fails to program correctly or requires initialization, this additional work must be claimed with separate labor operations under the defect code listed above; refer to KSD2.

Repairs to control modules and components with pre-existing conditions are not eligible to be claimed under the defect code listed in this bulletin.

Or:

Scenario 6

Labor Operation:	Labor Allowance:	Description:
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:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
And:		
61 00 980	Refer to KSD2	Continue vehicle test and performing Quick delete

Labor operation code 00 00 006 is a Main labor operation. 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) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

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/or labor operations listed in KSD2.

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