



This Service Information bulletin supersedes SI 32 03 14 **dated October 2014**.

NEW designates changes to this revision

SUBJECT

Power-Assisted Steering Failure

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)

NEW F80 (M3 Sedan)

NEW F82 (M4 Coupe)

NEW F83 (M4 Convertible)

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

NEW Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks 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.

NEW Or:

Scenario 5

Also claim:

Labor Operation:	Labor Allowance:	Description:
61 20 900	Refer to KSD2	Disconnecting and connecting battery negative cable

NEW Vehicle Programming and Coding

NEW If a control module was working properly and it fails to program correctly or requires initialization, please claim this additional work with the applicable KSD2 labor operations under the defect code listed above.

NEW The diagnosis and repair of vehicles “arriving” with failed control modules or stored faults which will cause them to fail during programming cannot be claimed under the defect code listed in this bulletin (See “Other Repairs” below).

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

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

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

NEW 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 on the repair order and in the claim comments section.

NEW Other Repairs

NEW If other eligible and covered work:

- **NEW** Is performed “prior” to programming and coding the vehicle, and/or
- **NEW** Results from performing ISTA diagnostics and the related test plans,

NEW Claim this work with the applicable defect code and/or labor operations listed in KSD2.

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