



MODEL

G30 530i xDrive Sedan	530e xDrive Sedan	540i xDrive Sedan	M550i xDrive Sedan
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SITUATION

A loss of power assist for the Electrical Power Steering (EPS) can occur.



Note: Manual steering capability is still retained.

The following Check Control (CC) messages can also be set:

- 00035 Continuing driving is possible. Driving stabilization.
- 00070 Continuing driving is possible. Steering effort is changed.
- 00627 Steering behavior. Drive at a moderate speed.

CAUSE



Unfavorable positioning of the FLEXRAY data line harness to the EPS control unit can cause the harness to be pinched (circled) and to separate from the cable guide channel.

The EPS steering gear/front axle support is shown viewed looking rearwards.

CORRECTION

When a vehicle arrives with this issue:

- Run a steering system diagnosis with ISTA/D
- Work through the corresponding test module if necessary
- Repair the FLEXRAY data cable and reroute the harness to eliminate future damage

PROCEDURE

The fault memories in EPS or DSC control unit contain the following:

EPS control unit:

- 0xD5041F - FLEXRAY: Physical bus fault, or
- 0xD50420 - FLEXRAY controller error

DSC control unit:

- 0xD355C4 - message fault (front axle electrical steering status, ID: ST_EST) – timeout, or
- 0xD355C8 - signal fault (front axle electrical steering status, ID: ST_EST) – invalid

If these faults are present, check whether the data line harness is pinched in the area shown in the photo above. If the line is damaged, repair it as described in repair instruction REP "61 00 ... "Notes on handling wiring harnesses and cables".

Reroute the FLEXRAY data cable as shown in the attached video to eliminate future damage.



Note: Exchanging the steering gear does not provide a solution and is therefore unnecessary.

WARRANTY INFORMATION

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

Defect Code:	6111187900	Line of active steering (AL) / EPS incorrect connection/contact
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
And:		
31 11 540	Refer to KSD2	Removing and installing or replacing stiffening plate
And:		
61 99 000	1 FRU	Work time for rerouting the wire harness

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

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 on the repair order and in the claim comments section.

Work time labor operation code 61 99 000 is not considered a Main labor operation. Also, since the "work time" FRU allowance to be claimed is specified, a separate punch time is not required.

Supporting Materials

Videos

[32 01 17](#)

