

**SUBJECT****Power-assisted Steering Intermittently Not Available at Engine Start-up****MODEL**

I01 (i3, i3REx)

SITUATION

An EPS warning lamp may light up intermittently in the instrument cluster at Drive Readiness. At the same time, the power-assisted steering is unavailable.

After switching the ignition off and on again, the steering is available again. No fault codes are stored in the fault code memory of the electric power steering (EPS-I1).

CAUSE

Electric Power Steering (EPS)

CORRECTION

1. If there is no fault code memory entry stored in the EPS, the steering was not available at Drive Readiness start-up, the EPS warning lamp lit up and all the fault code memory entries listed below are stored in the DSC control unit:

0xD35B26 – message error (actual EPS position, ID: AVL_PO_EPS) – timeout

0xD359BF – message error (actual driver steering torque of actuator, ID: AVL_STMOM_DV_ACT) – – timeout

0xD355C4 – message error (status of front axle power steering, ID: ST_EST) – timeout

0xD35C0C – message error (actual force of rack and pinion, ID: AVL_FORC_GRD) – timeout

Replace the EPS steering rack.

Replacement of the EPS steering rack is only justified when all the conditions listed above are fulfilled.

2. Once the EPS steering rack has been replaced, perform the "EPS start-up" service function. Following the EPS start-up, perform the "limit to limit steering," beginning with the left-end stop from the center position, and forcefully apply pressure at each end stop for at least two seconds.

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 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high-voltage charging unit)
And		
32 13 572	Refer to KSD2	Replacing electromechanical power steering (EPS)
And		
32 13 905	Refer to KSD2	Start-up, electrical steering gear (EPS)

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.

And

Wheel Alignment

Labor Operation:	Labor Allowance:	Description:
32 00 595	Refer to KSD2	Wheel alignment check KDS with ride-height measurement, without load
And		
32 00 601	Refer to KSD2	Adjusting toe-in on front axle
Or		
32 00 620	Refer to KSD2	Adjusting rear axle
Or		
32 00 630	Refer to KSD2	Adjusting rear axle and front axle

And, if not claimed under another repair:

Programming and Encoding Control Units

Labor Operation:	Labor Allowance:	Description:
61 00 730	Refer to KSD2	Programming/encoding control unit(s)
and		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery to EME”)
or		
61 21 529	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery to EME”) (luggage compartment service cap removed)

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.

If a control module 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.

Other Repairs

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

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