



## SIB 32 02 14

2020-01-10

### Power-assisted Steering Intermittently Not Available at Engine Start-up

This Service Information Bulletin (Revision 1) replaces SI B32 02 14 **dated November 2016**.

#### What's New (Specific text highlighted):

- Correction procedure: Program to latest version
- Parts- not required
- Warranty info, Deleted info for EPS replacement

## MODEL

E-Series	Model Description	Production Date
I01	i3,i3 REx	August 18, 2013 – November 1, 2016
F48	X1 Sports Activity Vehicle	October 31, 2013- November 1, 2016

## SITUATION

The power-assisted steering is unavailable at start up/drive readiness.

No communication with the Electric Power Steering (EPS).

Possible fault codes:

Fault code	Text
D356A5	message fault (display of the check control driving dynamics 02, D: Disp_CC_DRDY_02) - Timeout
D359BF	message fault (actual steering torque of the driver actuator, ID: AVL_STMOM_DV_ACT) - Timeout
D356B6	message fault (display of the check control driving dynamics 02, ID: DISP_CC_DRDY_02) - Alive
480AB8	internal status management of the complete monitoring range
CDA451	FlexRay, message (actual steering torque of the driver actuator, 49.0.2): missing
CDA452	FlexRay, message (actual force of the rack, 49.0.2): missing
D35B26	message fault (actual position of the EPS, ID: AVL_PO_EPS) - Timeout
D355C4	message fault (status of the electrical steering front axle, ID: ST_EST) - Timeout
48083B	Peripheral/functional error on the engine control unit interface Actual steering angle of the front axle; signal temporarily invalid
D35COC	message fault (actual force of the rack, ID: AVL_FORC_GRD) – Timeout.

## CAUSE

Electric Power Steering (EPS).

## CORRECTION

1. Perform a vehicle test with ISTA to identify fault code entries.
2. Work through the corresponding test module.
3. Program and encode the vehicle with the latest version of ISTA (e.g., 4.21.1x, available December, 2019 or higher) to integration level F056-16-11-501 or a higher version.

**Important warning for working on the high-voltage systems on the i3:**

**Only properly trained personnel, who have passed all applicable technical training courses, should perform any maintenance or repairs on any Hybrid or Electric Vehicle. Work performed by unqualified persons may result in severe injury or damage to the vehicle. Additional information is found in Repair Instruction 61 00... Observe safety instructions when handling electric vehicles.**

## **PARTS INFORMATION**

Not required.

## **WARRANTY INFORMATION**

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

**Update the vehicle to the required I-level or higher by performing and submitting for one of the open Technical Campaigns instead. Please be sure to also perform any additional work (before and/or after) the campaign repairs require and/or close the remaining open programming and encoding Technical Campaign repairs as outlined in the corresponding Service Information Bulletin.**

In conjunction with performing these Technical Campaign repairs on the vehicle, if needed for the repair described in this bulletin, claim the diagnosis portion provided below (excluding the flat rate labor operations for battery charging, programming and encoding) together with a corresponding explanation on the RO and in the claim comments.

Only if the above situation does not apply, the BMW software solution is then:

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program as described below.

<b>Defect Code:</b>	<b>3213021500</b>	<b>Steering gear permanent malfunction</b>
<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR
And, as necessary:		
61 00 006	Performing vehicle diagnosis – test module	Work time (WT)
And:		
61 00 730	Programming/encoding control unit(s)	Refer to AIR

And, additionally for the:

**e-Vehicles (i3,i3 Rex)**

Labor Operation	Description	Labor Allowance
61 25 910	Recharging high-voltage battery unit (to high voltage charging socket)	Refer to AIR

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 AIR 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.

**Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)**

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software I-level. If one or more control module failures occur during this programming procedure:

- Please claim this consequential control module-related IRAP recovery procedure (when applicable as required)/repair work under the defect code listed in this bulletin with the applicable AIR labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section

For control module failures that occurred prior to performing this programming procedure:

- When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis with separate punch times).