POWER-ASSISTED STEERING INTERMITTENTLY NOT AVAILABLE AT ENGINE START-UP

This Service Information bulletin supersedes SI 32 02 14 **dated August 2014**

UPDATE! MODEL

I01 (i3, i3 REx) Produced 8/18/13-11/01/16

F48 (X1) Produced 10/31/13-11/01/16

UPDATE! SITUATION

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

No communication with the Electric Power Steering (EPS).

Possible fault codes:

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)

UPDATE! CORRECTION

Perform a vehicle test with ISTA to identify fault code entries.

- For vehicles **up to production date 06/14/2016**, replace the EPS. Refer to REP 3213572 "Replace electronic power steering (EPS)".

  Program and encode the vehicle with ISTA/P 3.59.0 to the integration level F056-16-07-501 or a higher version.

- For vehicles which were produced **between 06/15/2016 and 11/30/2016**, perform a "terminal (15) change" (ignition on and off) 5 times; the fault is removed by this procedure.

  If the terminal change procedure does not provide a solution, the steering gear must be replaced.

Note:

A new software for fault elimination is expected to be available from November 2016 (ISTA/P Version 3.60.0 / ISTA Next 4.02.20, I-level F056-16-11-501).

UPDATE! PARTS INFORMATION

Refer to EPC

UPDATE! WARRANTY INFORMATION

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 15 00		
Labor Operation:	**Labor Allowance:**	**Description:**	
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)	

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

And, for the

F48 (X1)

Labor Operation:	Labor Allowance:	Description:

| 61 21 528 | Refer to KSD2 | Connect an approved battery charger/power supply(indicated in KSD2 as "Charging battery") |

Or for the:

I01 (i3, i3 REx)

Labor Operation:	Labor Allowance:	Description:
61 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high voltage charging unit)

And:

For vehicles which were produced between 06/15/2016 and 11/30/2016 Only

Labor Operation:	Labor Allowance:	Description:
61 00 009	1 FRU	Work time to perform the "terminal (15) change"

Work time labor operation code 61 00 009 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.

And as necessary or applicable:

Labor Operation:	Labor Allowance:	Description:
32 13 572	Refer to KSD2	Replacing electromechanical power steering (EPS)
And		
32 13 905	Refer to KSD2	Start-up, electrical steering gear (EPS)

And:

Checking Wheel Alignment

Labor Operation:	Labor Allowance:	Description:
32 00 595	Refer to KSD2	Wheel alignment check KDS with ride-height measurement, without load

And, if and as necessary:

Adjusting

Labor Operation:	Labor Allowance:	Description:
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, for the:

I01 (i3, i3 REx)

Labor Operation:	Labor Allowance:	Description:
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 (luggage compartment service cap removed)

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

Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle control modules that currently do not have the latest software and control module failures occurred during this programming:

- Please claim these consequential control module repair work under the defect code listed in this bulletin with the applicable KSD2 labor operations.

Other Repairs

Control module failures that occurred prior to this programming:

- When covered under an applicable limited warranty, claim these control module repairs

using the applicable defect code and labor operations in KSD2.