



## SI B22 01 15 Engine and Gearbox Suspension

February 2016  
Technical Service

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This Service Information bulletin supersedes SI B22 01 15 **dated November 2015**.

**NEW** designates changes to this revision

### SUBJECT

#### **Left Side Engine Mount Broken**

### MODEL

I01 (i3 and i3 REx)

### SITUATION

The left side motor mount or motor mount support has failed. As a result, the electric drivetrain moves excessively in the chassis. A banging noise can be heard from the rear of the vehicle during load reversals. In addition, the vehicle may experience a Drivetrain Malfunction CCM or other electrical drivetrain failures.

**NOTE:** If this failure is present, the vehicle should not be driven, as additional consequential damage could result.

### CAUSE

The motor mount or motor mount support is damaged due to excessive shock to the driveline, such as a sudden loss of traction or underbody impact, during acceleration.

### PROCEDURE

**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 may be found in REP 61 00... Observe safety instructions when handling electric vehicles.**

1. De-energize the vehicle per REP 61 25 900 (De-energizing the high voltage system).
2. Replace the left and right side motor mount support, motor mount, and securing bolt per REP 22 11 165.
  - a. To line up the holes in the motor mount and motor mount support, insert an 11 mm drill bit to ensure proper alignment prior to installing the bolt.
3. For vehicles produced up to 6/2/14, replace the left and right side axle shafts per REP 33 22 000 and 33 22 002.
4. Replace the two AC lines secured to the AC compressor. Refer to REP 64 52... for notes related to working on and opening the AC system.
5. Inspect the ground cable that runs from the right side motor mount support to the chassis for stretching/damage. Replace as needed (BEV only).

6. Inspect the HV cable that runs between the REME and KLE for possible insulation damage. Replace as needed (REx only).
7. Inspect the underbody V-brace beneath the drivetrain for possible damage. Replace as needed.
8. Inspect the wiring harnesses running along the bulkhead in front of the drivetrain. If any wiring damage is present, submit a PuMA case for further assistance.
9. Inspect all fuel lines and replace any that have been damaged (REx only).
10. Inspect the 12V electrical connectors on top of the KLE. If any of these connectors are damaged, replace the KLE. Then inspect the EME in the area where it contacted the KLE. If the EME is damaged, it must also be replaced.
11. Program the vehicle with ISTA/P 3.57.1 (Target I-Level I001-15-11-502) or higher.

**NOTE:** Prior to replacing any HV components, refer to SI B00 03 06 to determine if a TC PuMA case is required.

#### **NEW** PARTS INFORMATION

Part number	Description	Quantity
22 11 6 878 935	Left side motor mount	1
22 11 2 785 027	Left side motor mount support	1
22 11 6 879 664	Motor mount bolts (L&R)	2
22 11 2 785 024	Right side motor mount (REx)	1 (REx)
22 11 6 878 938	Right side motor mount support (REx)	1 (REx)
22 11 2 785 024	Right side motor mount (BEV)	1 (BEV)
22 11 6 878 936	Transmission supporting bracket (BEV)	1 (BEV)
33 20 7 641 212	Axle shaft – right	1
33 20 7 641 213	Axle shaft – left	1
12 42 8 631 637	Ground strap	1 (if required)
64 53 9 291 272	AC line – low pressure (w/o heat pump)	1 (if required)
64 53 9 291 273	AC line – high pressure (w/o heat pump)	1 (if required)
64 50 9 291 150	AC line – low pressure (w/ heat pump)	1 (if required)
64 50 9 291 153	AC line – high pressure (w/ heat pump)	1 (if required)
39 20 6 868 861	V-brace, left	1 (if required)
Refer to ETK	Fuel lines	As needed

Refer to ETK	KLE (AC charging only)	1 (if required)
Refer to ETK	KLE (AC/DC charging) SA 4U7A	1 (if required)
Refer to ETK	EME	1 (if required)
12 43 7 647 016	HV cable – REME to KLE	1 (if required)

**NOTE:** If any high-voltage components must be replaced, refer to SI B00 03 06 to determine if a TC PuMA case is required prior to replacement.

#### WARRANTY INFORMATION

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

<b>Defect Code:</b>	<b>22 11 01 01 00</b>
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#### i3 (BEV)

Labor Operation:	Labor Allowance:	Description:
22 11 157	Refer to KSD2	Removing and installing/replacing both supports (including the removing and installing the drive unit, both axle shafts including replacing the axles when applicable) (Main work)
Or:		
22 11 657	Refer to KSD2	Removing and installing/replacing both supports (including the removing and installing the drive unit, both axle shafts including replacing the axles when applicable) (Plus work – Vehicle already in the workshop)

#### i3 (REx)

Labor Operation:	Labor Allowance:	Description:
22 11 156	Refer to KSD2	Removing and installing/replacing both supports (including the removing and installing the drive unit, both axle shafts including replacing the axles when applicable) (Main work)
Or:		
		Removing and installing/replacing both supports (including the removing and installing the drive unit, both axle shafts

22 11 656	Refer to KSD2	including replacing the axles when applicable) (Plus work – Vehicle already in the workshop)
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And:

**Wheel Alignment (With removing and installing the Drive Unit – Inclusive Labor 13 35 500)**

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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 necessary (Procedure Step 11):

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
00 00 556	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 25 910	Refer to KSD2	Recharging high-voltage battery unit (to high voltage charging unit)
And:		
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” for the i3)
Or:		
		Connect an approved battery

61 21 529	Refer to KSD2	charger/power supply(indicated in KSD2 as “Charging battery to EME”) (luggage compartment service cap removed)
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### Sublet – Bulk Materials

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (Please, do not use part numbers for claim submission)
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Sublet reimbursement calculation for claiming the used quantities of repair-related bulk materials (BMW part numbers) is at dealer net plus your center’s handling.

Enter this material cost in sublet and itemize the amount on the repair order and in the claim comments section.

### Other Repairs - Consequential

As outlined in the Procedure section, when additional work and/or parts are required as a direct result of this issue, including the applicable “non-overlapping” labor operations listed in KSD2, claim these items under the defect code listed above.

### Overlapping Labor – Associated and/or Other Repairs

If invoicing KSD2 flat rate labor operation codes for the additional repair work results in overlapping labor being claimed, invoice work time labor operation 00 50 000 for the additional time (FRU) minus the overlap instead.

On the repair order and in the claim comment section, please identify the labor operations that labor operation code 00 50 000 replaces and itemize the claimed FRU amount.

Work time labor operation code 00 50 000 is not considered a Main labor operation.

**Associated Repairs:** When work time labor operation 00 50 000 is used as an extension of the repair outlined in this bulletin, a separate defect code and punch time(s) are not required.

**Other Repairs:** When work time labor operation 00 50 000 is used for work that will be claimed under different defect codes, separate punch time(s) are required.

### Vehicle Programming and Encoding

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.

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.

### **Other Repairs**

If other eligible and covered work is performed “prior” to programming and coding the vehicle, claim this work with the applicable defect code and labor operations listed in KSD2.

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