SI B22 01 15
Engine and Gearbox Suspension

February 2015
Technical Service

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.

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

PARTS INFORMATION

Part number	Description	Quantity
22 11 6 793 357	Left side motor mount	1
22 11 6 793 377	Left side motor mount support	1
22 11 6 863 870	Motor mount bolts (L & R)	2
22 11 6 793 356	Right side motor mount (REx)	1 (REx)
22 11 6 796 772	Right side motor mount support (REx)	1 (REx)
22 11 6 793 356	Right side motor mount (BEV)	1 (BEV)
22 11 6 793 376	Right side motor mount support (BEV)	1 (BEV)
33 20 7 641 212	Axle shaft – right	1
33 20 7 641 213	Axle shaft – left	1
12 42 2 380 612	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
61 44 8 647 316	KLE (AC charging only)	1 (if required)
61 44 8 647 315	KLE (AC/DC charging) SA 4U7A	1 (if required)
12 36 8 644 792	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/SAV Limited Warranty.

Defect Code:	**22 11 01 01 00**

i3 (BEV)

Labor Operation:	Labor Allowance:	Description:
		Removing and installing/replacing both

22 99 000 (Use 22 11 157 when the March 2015 KSD2 is released)	77 FRU	supports (including the removing and installing the drive unit, both axle shafts including replacing the axles when applicable) (Main work)
Or:		
22 99 000 (Use 22 11 657 when the March 2015 KSD2 is released)	75 FRU	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 99 000 (Use 22 11 156 when the March 2015 KSD2 is released)	102 FRU	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 99 000 (Use 22 11 656 when the March 2015 KSD2 is released)	101 FRU	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)

And:

Wheel Alignment (With removing and installing the Drive Unit)

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:

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)

Sublet reimbursement calculation for claiming the used quantities of repair-related bulk materials (BMW part numbers) is at dealer net plus handling.

Enter this material cost in sublet and itemize the amount in the claim comment 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

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

On the repair and in the claim comment section, please identify the labor operation labor operation code(s) 00 50 000 replaces and itemize claimed FRU amount.

Even though work time labor operation code 00 50 000 ends in “000”, it is not considered a Main labor operation. Also, since work time labor operation 00 50 000 is an extension of another repair, separate punch time(s) are not required.

Additional Repairs requiring Programming /Encoding

If a vehicle control module or component was working properly and/or had no related faults stored prior to vehicle programming and it fails to program correctly and/or requires initialization, this additional work must be claimed with separate labor operations under the defect code listed above, refer to KSD2.

Repairs to address control modules and/or components with pre-existing conditions are not eligible to be claimed under the defect code listed in this bulletin.