



## SUBJECT

Remove BMW Assist™ (SA639) & Install BMW ULF w/Bluetooth

## MODEL

E46 – 3 Series produced as of 9/03  
E53 – X5 produced as of 10/03  
E83 – X3 produced as of 9/03  
E85 – Z4 produced as of 9/03

## SITUATION

The removal of the Motorola Telematics Control Unit (TCU) from I-Bus vehicles as of 9/03 production is **NOT** recommended. The TCU is factory installed as part of the Premium Package or Option 639 and should always remain with the vehicle. The recommended procedure for customers wishing to have hands-free calling is to install the CPT9000 handset and associated hardware (see Aftersales Parts Bulletin 84 02 04).

In the event that a customer wishes to have an alternate BMW phone system installed, such as the BMW ULF System with Bluetooth Wireless Technology, the TCU will need to be removed in order to install the ULF module. **The customer is responsible for returning the removed TCU with the vehicle at the end of the vehicle's lease period .**

Upon removing/disconnecting the TCU the **center must process, and the customer must sign, the ESA waiver document as completed on CenterNet under BMW/BMW Assist/ESA Online Form** (See attached example for information). The document indicates:

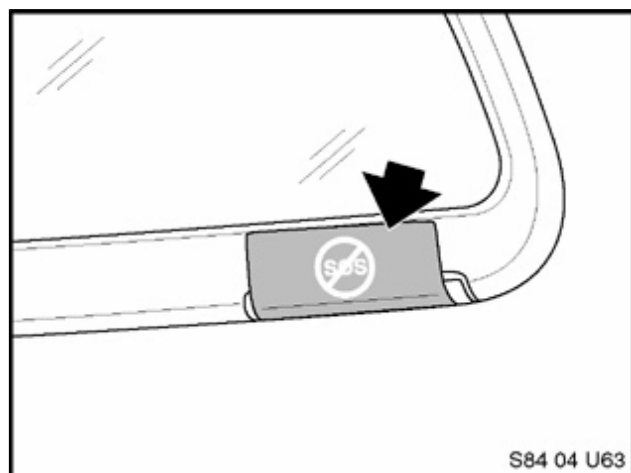
- That he/she is declining the BMW Assist services offered by having the TCU installed.
- That he/she has been informed that the Assist buttons on the mirror or overhead console will no longer be operational.
- That he/she is aware that the BMW ULF System does not provide the "BMW Assist" services, including Automatic Collision Notification that would be available with the Motorola TCU installed.

Removal/disconnection of the TCU also requires the central code (ZCS)/Vehicle Order (VO) to be modified. Since the TCU (SA639) is factory installed on vehicles equipped with the "Premium" package, SA639 must be removed from the vehicle coding data or the car/key memory features cannot be set.

If the ULF system is installed, the vehicle must be coded to add the ULF System (SA644) and activate Voice Recognition (SA620), which will be added to the vehicle's coding data ZCS/VO – see procedure below.

## PROCEDURE

### E46 – 3 Series



Install a label (SD # 92265) over the SOS button access plate on the rear view mirror, which indicates that the BMW Assist feature is disabled.

Remove option 639 from the vehicle order (refer to the section "editing the vehicle order" in SI B09 03 01).

### E53 – X5

Remove the BMW Assist/SOS switch from the overhead switch panel and install a blank cover plate P/N 51 44 8 258 056 in place of the switch.

On E53 the ZCS/SA code must be modified and two bits must be changed. The information below shows that **the 5th character/bit in the SA line must be changed from an 8 to a 6** and that the last character/bit of the SA line, which identifies the checksum, must also be changed.

In the example given the original checksum of the SA line is J and as a result of changing the 5th character the new checksum will have to be changed to a D.

The table below shows the old checksum value and also indicates what the new value should be.

GM Line		SA Line		VN Line	
ZCS Old:	B4310000C	0000800008008E04	J	00000000036	
ZCS New:	B4310000C	0000600008208C04	D	00000000036	

Checksum		Checksum	
Old	New	Old	New
0	U	I	C
1	V	J	D
2	W	K	E
3	X	L	F
4	Y	M	G
5	Z	N	H
6	0	O	I
7	1	P	J
8	2	Q	K
9	3	R	L
A	4	S	M
B	5	T	N
C	6	U	O
D	7	V	P
E	8	W	Q
F	9	X	R
G	A	Y	S
H	B	Z	T

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- Using DIS or MoDiC,
- Select Coding/Programming
- Select "ZCS coding"
- Select vehicle series "E53"
- Select "Recoding"
- Select "Kombi / IKE"
- The screen displays "Kombi / IKE has been selected?" - Answer "Yes".
- Select "Recode control unit"
- The screen displays the question "Should module be rigidly assigned" - Answer "Yes".
- The screen displays the VIN with the question "Chassis # change?" - Answer "No".
- All (3) lines of ZCS code are displayed with the question "Change?" - Answer "Yes".
- The GM line of code is then displayed with the question "Confirm input?" – answer "Yes"
- The SA line of code is then displayed with the question "Confirm input?"
- Use the above example to figure out the new SA line. Using the keypad displayed on the screen, overwrite the old SA line. - Answer "Yes" to the question "Confirm input?"
- The VN line of code is then displayed with the question "Confirm input?" – Answer "Yes"
- All (3) lines of ZCS code are displayed with the question "Indication correct?".&#x2013;Check GM line to confirm the correct input.&#x2013;Answer "Yes" if correct. Answer "No" if not correct, and repeat ZCS code entry.

### E83 - X3 and E85 - Z4

Remove the BMW Assist/SOS switch from the:

- Overhead switch panel on the E83
- Rear of center console assembly on the E85

Install a blank cover plate P/N 51 44 8 258 056 in place of the switch.

On the E83 & E85, the current version of CIP 11.0 does not allow the Vehicle Order (VO) to be properly modified if the ULF Control Module is installed. In this case, a new VO must be obtained and installed in the vehicle. The new/modified VO must include:

- SA 644 for ULF Control Module
- SA620 to activate internal voice recognition of the ULF Control Module
- SA639 will need to be removed from the new VO otherwise a problem with setting the Car/Key memory features will occur.

**To obtain the new Vehicle Order**, contact the Technical Hotline using PuMA, and provide a return e-mail address, until the CIP coding information for the DIS/GT1 system can be updated. On receipt of the new Vehicle Order, it must be copied to an empty floppy disk and the file name should be "xml.db.xml".

1. Connect the vehicle to an approved BMW battery charger.
2. Using DISPlus, GT1 or SSS, select "Coding/Programming" start "CIP".
3. Select the appropriate vehicle model.
4. Select "**Vehicle**".
5. Select "**Vehicle Order**".
6. Press "**Adapt VO**" and follow the on-screen instructions.
7. Insert the disk into the floppy drive when prompted.
8. After the new VO has been adapted, perform "Complete Vehicle Coding".

#### PARTS INFORMATION

Part Number	Description	Quantity
51 44 8 258 056	Switch Cover	1

Under separate cover, one sheet of the "BMW Assist is Disabled!" labels will be sent to each BMW Center's Service Manager. Additional quantities of the labels may be ordered as listed below.

Item	Description	Qty	Price
SD92-265		1 sheet (=20 labels)	\$4.00

These items are available online at BMW TIS under Materials Ordering. Refer to bulletin B10 02 02 for instructions on how to place an order.

#### WARRANTY INFORMATION

Information only - cost to install BMW ULF System with Bluetooth Wireless Technology is customer pay.

#### ATTACHMENTS

view PDF attachment [B840804Waiver](#).