Original BMW Accessories.
Installation Instructions.

Universal BMW Bluetooth Hands-Free Kit Upgrade
BMW 1 Series (E81, E82, E87) built after 03/07

**These installation instructions are only valid for cars with SA 640 (telephone preparation).
SA 609 (Professional navigation system) and Japanese export version.**

Upgrade kit No.   84 64 0 393 552   Bluetooth hands-free upgrade kit

Installation time
The installation time is **approx. 2,0 hours**. This may vary depending on the condition of the car and the equipment in it.
The installation time will reduce by approx. **0,5** hours for cars with a ULF control unit installed.

The vehicle must be updated to the latest I-level status by flashing before installing the retrofit. Differing programming times may be necessary depending on the production age of the vehicle and on work previously performed on the vehicle.

The installation time given does not include time needed for programming/encoding.

The total costs for the programming time should be taken into account when calculating retrofitting costs (reimbursement through warranty is not permissible).

Important information
These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

In any event, the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

All work must be completed using the latest BMW repair manuals, circuit diagrams, servicing manuals and work instructions in a rational order using the prescribed tools (special tools) and observing current health and safety regulations.

If you experience installation or function problems, limit troubleshooting to approx. 0.5 hours for mechanical or 1.0 hour for electrical work.
In order to reduce costs and avoid any additional expense, send a query immediately to the Technical Parts Support via the Aftersales Assistance Portal (ASAP).
Specify the following information:
- Chassis number
- Part number of the retrofit kit
- A precise description of the problem
- Work steps already carried out

Do not archive the hard copy of these installation instructions since daily updates are made by ASAP!

Pictograms

▷   Denotes instructions that draw your attention to special features.

◀   Denotes the end of the instruction or other text.

Installation information

When routing fibre optic cables, make sure the bending radius is no less than 25 mm.
Refer to the instructions for handling fibre optic cables acc. to TIS RA 61 00 ....

Ensure that the cables and/or lines are not kinked or damaged as you install them in the car. The costs thereby incurred will not be reimbursed by BMW AG.

Additional cables/lines that you install must be secured with cable ties.

If the specified PIN chambers are occupied, bridges, double crimps or twin-lead terminals must be used.

All pictures show LHD cars; proceed accordingly on RHD cars.

After the installation work the upgrade must be programmed / coded using SSS (software service station) via the **CIP** path.

In cars fitted with SA 6FL the ULF (universal handsfree charger) control unit is already installed, largely connected and does not have to be replaced.

Ordering instructions

The following parts are not included in the upgrade kit and if necessary, must be ordered separately (see EPC for part number and details):

- Snap-in adapter

- ULF control unit **C**

List of special equipment

The following special equipment must be taken into consideration when installing the upgrade kit:

SA 609   Professional navigation system
SA 620   Voice input system
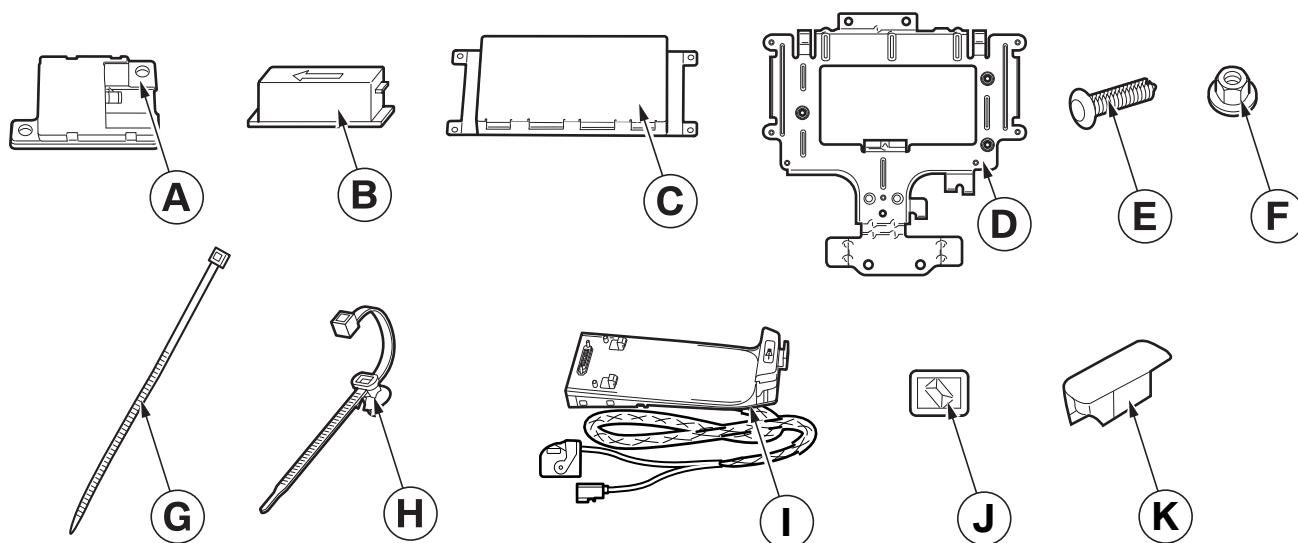**SA 640**   Telephone preparation
SA 6FL   USB/audio interface

Special tools required

00 9 310, Installation wedges

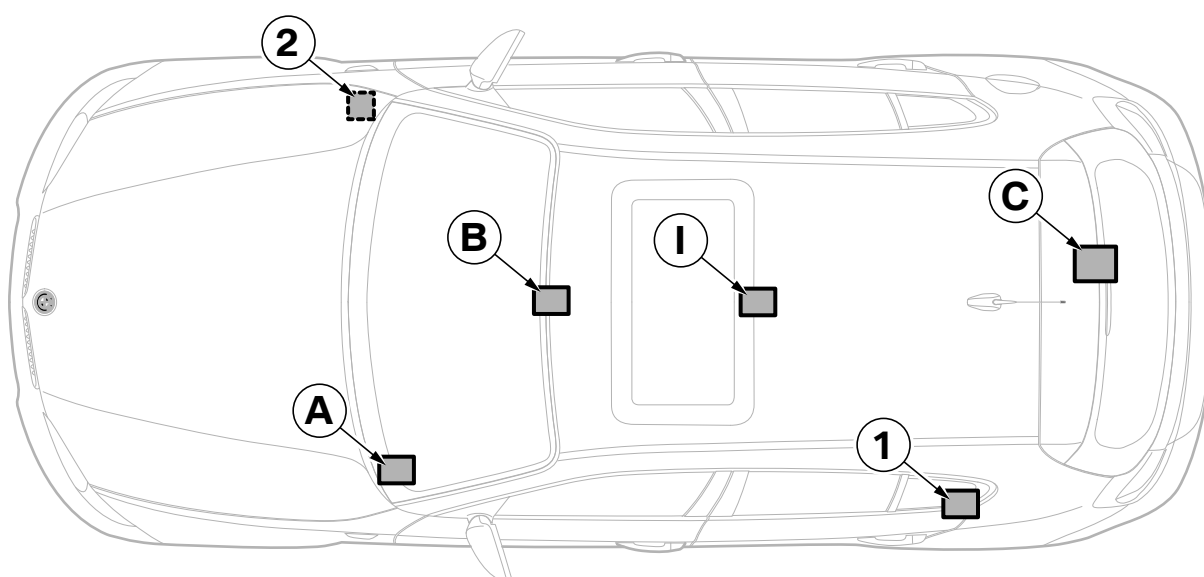# Table of contents

1. Parts list

087 0088 Z

Legend

A Bluetooth aerial

B Hands-free microphone (cars without SA 620 only)

C ULF control unit (not supplied in the upgrade kit)

D ULF holder

E Clip (2x)

F Hexagonal nut (4x)

G Cable ties (10x)

H Cable tie holder (2x)

I Eject box

J Plug connector holder

K Eject box split cover

2. Preparatory work

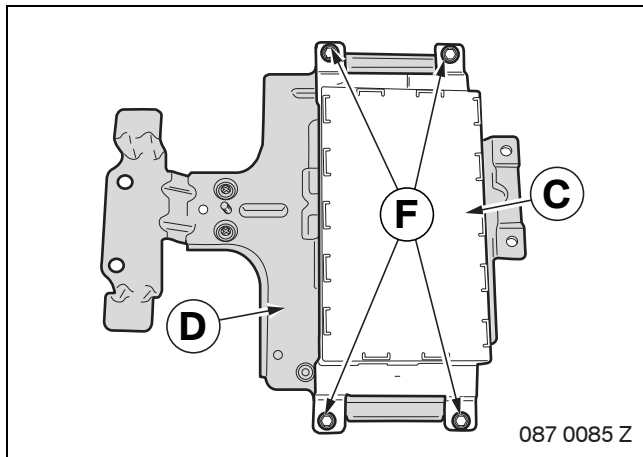|	TIS no.
Conduct a brief test	---
Disconnect negative pole of battery	12 00 ...
The following components must be removed first of all	
Luggage compartment floor trim	51 47 101
Backrest side section, left (only for cars without ULF unit already installed)	52 26 008
Pedal trim	51 45 185
Trim at the bottom right of the dashboard	51 45 181
Roof function centre (cars without SA 620 only)	---

3.   Installation diagram

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Legend

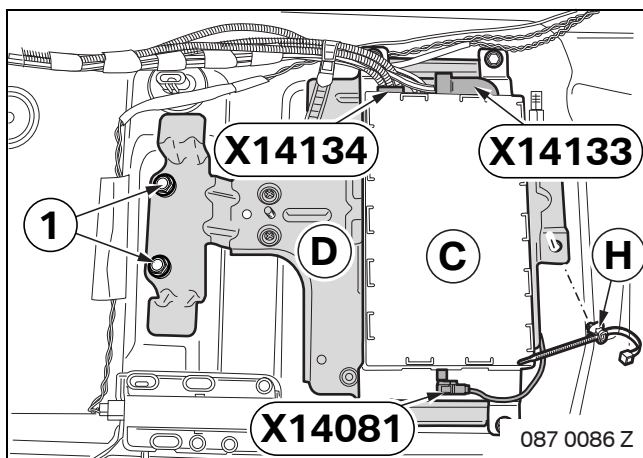|	
A	Bluetooth aerial
B	Hands-free microphone (cars without SA 620 only)
C	ULF control unit
I	Eject box

1	FO distributor stations **X14255** and **X14280** (only for cars without ULF unit already installed)
2	Audio plug **X14087** (10-pin natural)

4.   Installing and connecting the ULF control unit

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(only for cars without ULF unit already installed)

Use hexagonal nuts **F** to secure ULF control unit **C** to holder **D**.
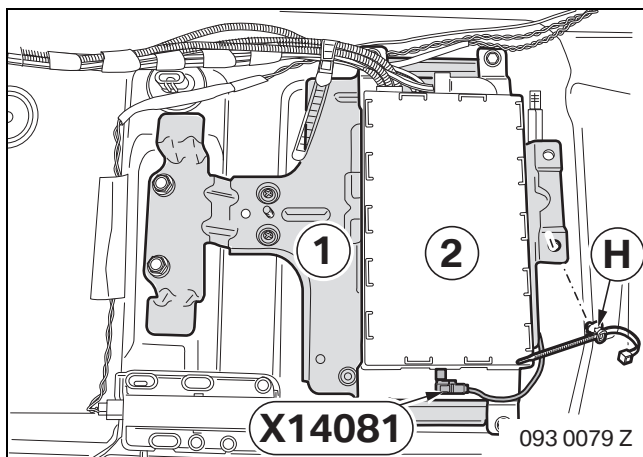

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Connect the tied-back plugs to ULF control unit **C**:

- Fakra socket casing natural-coloured **X14081**
- 54-pin socket casing natural-coloured **X14133**
- 2-pin SW fibre optic cable casing **X14134**

Connect holder **D** into the lugs in the car and screw on with the existing nuts (1).
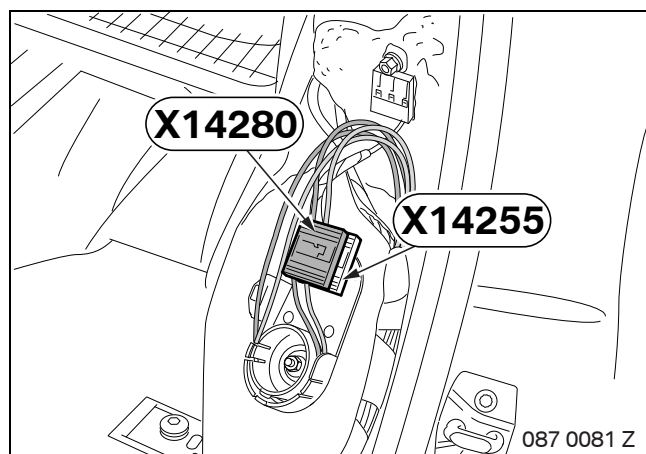
Secure the aerial cable with cable holder **H**.

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Only for cars with ULF unit already installed

Plug tied-back natural-coloured Fakra socket casing **X14081** onto ULF control unit (2).

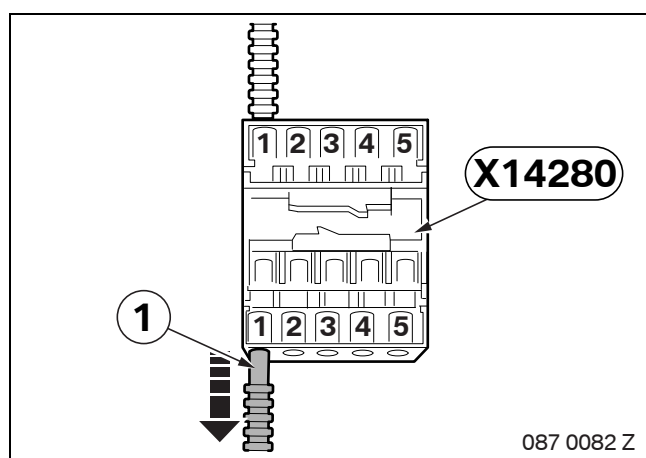Secure the aerial cable onto the holder (1) with cable holder **H**.

5. Connecting fibre optic cable (only for cars without ULF unit already installed)

▷ On cars with a ULF unit already installed, the fibre optic cables are already connected in the car. ◀
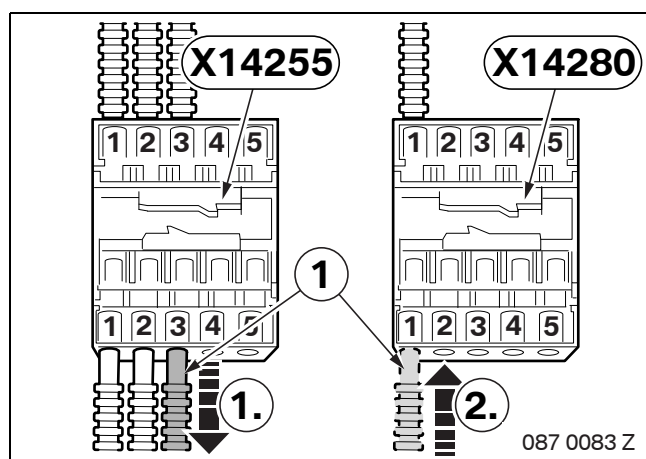

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Release distributor station preparation **X14280** and car distributor station **X14255** behind the left backrest part.
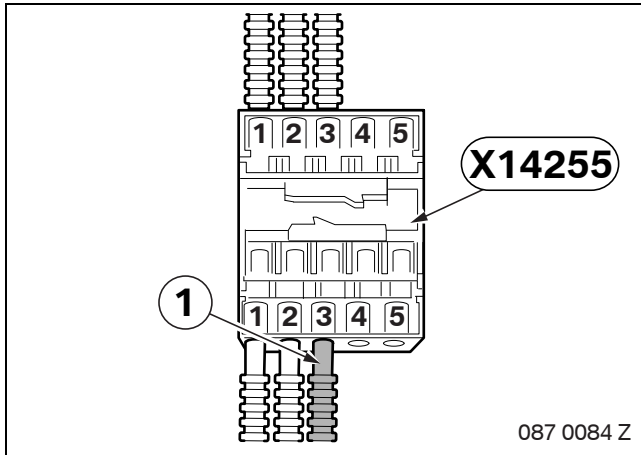
Remove the cover caps from the distributor stations.

087 0082 Z

Disconnect the bottom FO conductor (1) from PIN 1 from distributor station preparation **X14280**.

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Disconnect any bottom FO conductor (1) from car distributor station **X14255** and connect it to PIN 1 of distributor station preparation **X14280**.
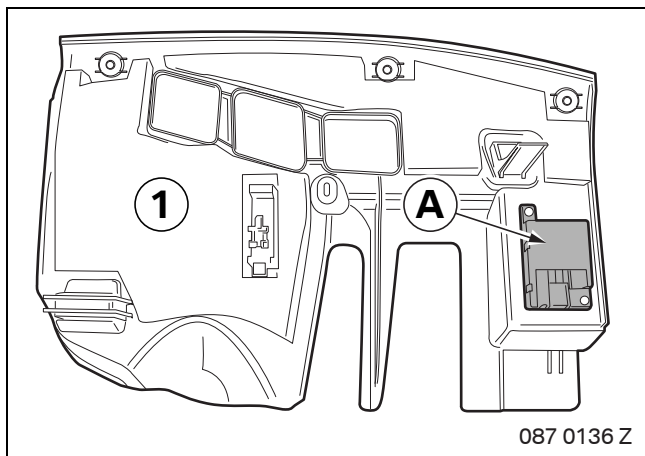
5. Connecting fibre optic cable (only for cars without ULF unit already installed)

087 0084 Z

Connect the FO conductor (1) that you disconnected from distributor station preparation **X14280** to the cleared PIN in car distributor station **X14255**.
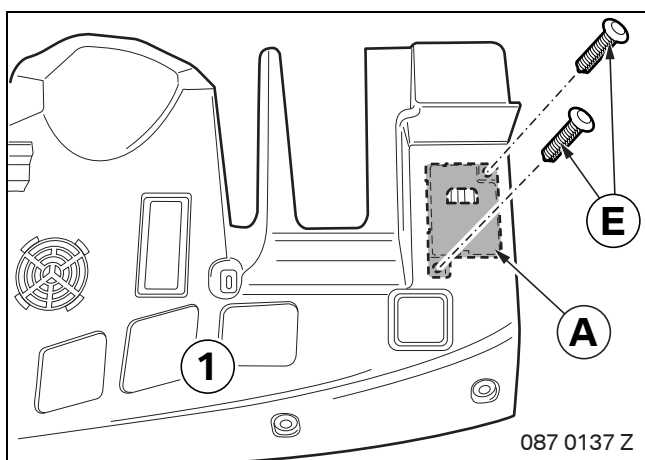
Put the caps on the distributor stations and secure the distributor stations to the car.

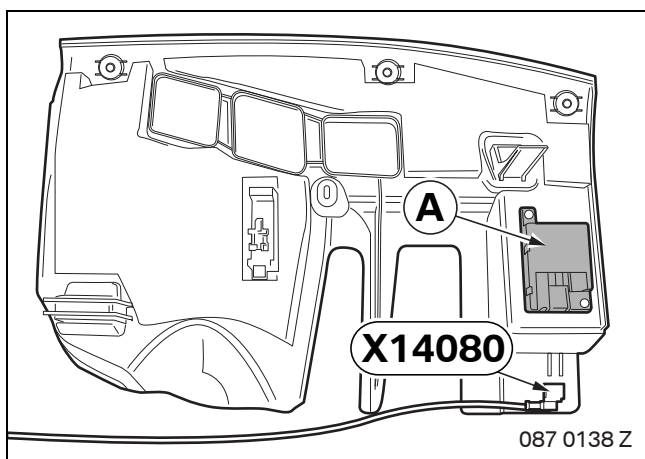## 6.   Installing and connecting the Bluetooth aerial and hands-free microphone

087 0136 Z

Place Bluetooth aerial **A** on the pedal trim (1) and mark the hole pattern.

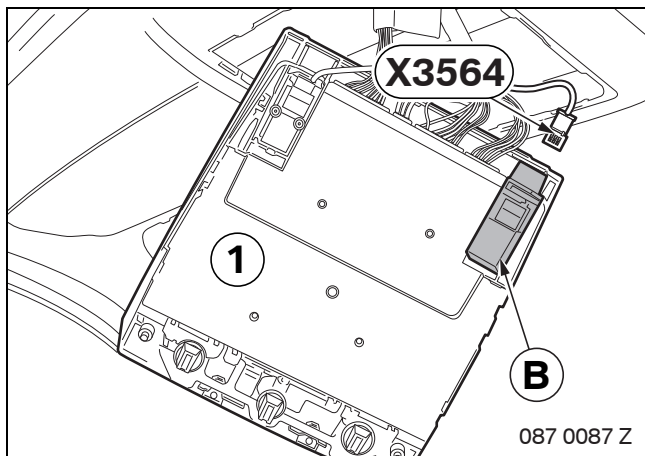Drill holes through the pedal trim (1) using a 7.0 mm drill bit.

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Secure Bluetooth antenna **A** to the pedal trim (1) using clips **E**.

087 0138 Z

Connect tied-back black Fakra socket casing **X14080** to Bluetooth aerial **A**.

6. Installing and connecting the Bluetooth aerial and hands-free microphone

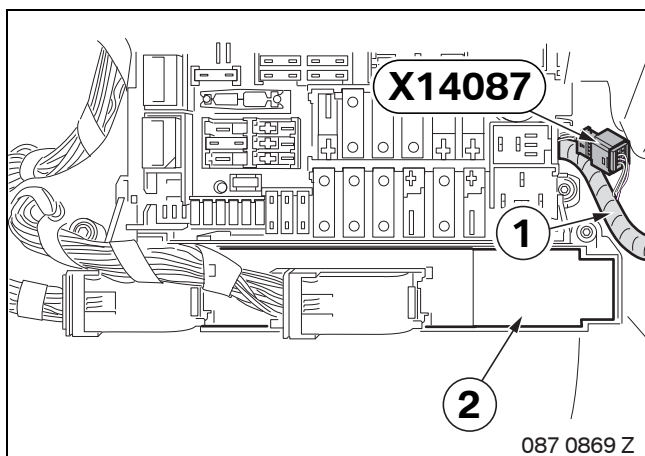
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Cars without SA 620 only

Remove the microphone trim from the roof function centre (1).

▷ The arrow on hands-free microphone **B** must point to the front of the car after it has been installed. ◀

Clip the hands-free microphone **B** into the roof function centre (1) and connect the tied-back socket casing **X3564** (black 3-pin) to the hands-free microphone **B**.

Cars with SA 620 only

No connection required, microphone is already plugged in.
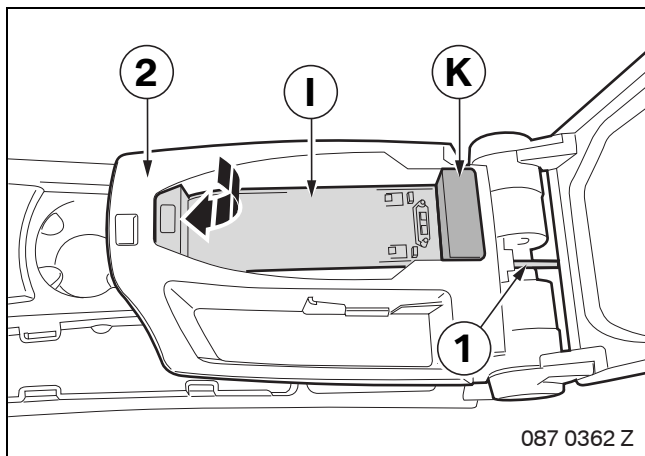

087 0869 Z

All cars

Release audio plug **X14087** (10-pin natural) that is tied back to cable harness (1) between junction box (2) and A-pillar.

Reconnect pins of microphone cable on socket casing of the audio plug **X14087** as follows:

- Screen cable from PIN 4 to PIN 3
- Yellow cable from PIN5 to PIN 1
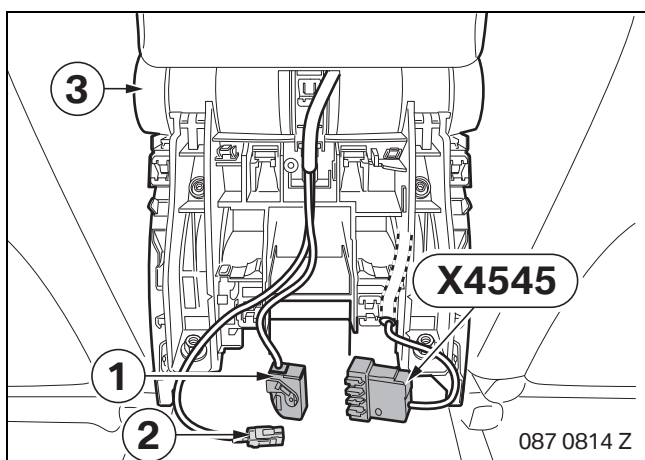- Black cable from PIN 6 to PIN 2

7.   Installing and connecting the eject box

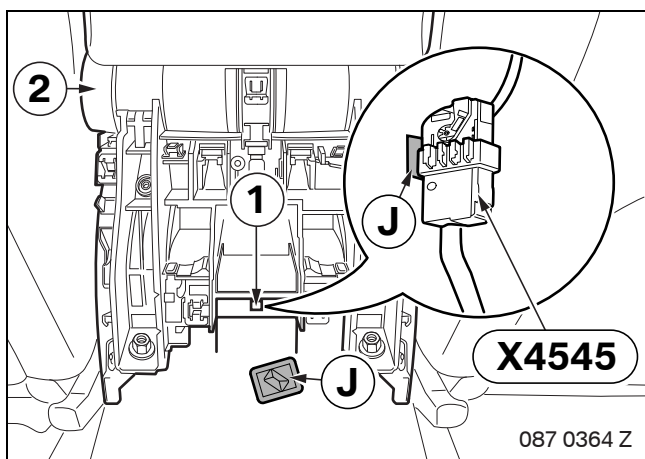Remove the oddments box from the centre armrest (2).

Route the cable (1) from eject box **I** through the rear of the centre armrest (2) and clip eject box **I** into the centre armrest (2).

Insert eject box split cover **K** behind eject box **I**.

Connect plug casing **X4545** (black 18-pin) to connector (1) of the eject box behind the centre armrest (3).

Tie back the antenna plug (2).

Insert plug connector holder **J** into the opening (1) in the centre armrest (2).

Secure plug connector **X4545** to the plug connector holder **J**.

8.   Concluding work and coding

This upgrade system requires coding.

- Connect the battery
- Encode the upgrade with SSS (software service station) via the **CIP** path
- Conduct a brief test
- Register the mobile phone in the car (see section 9)
- Re-fit the car components as required

▷ The circuit diagram for the telephone preparation (SA 640) is available in GT-1 if required. ◀

9.   Pairing the mobile phone with the car

▷ The registration, also known as "pairing" can only be carried out if the encoding has been successful. The Bluetooth code required for the pairing process, an arbitrary number with 1 – 16 figures, can be freely selected. ◀

After the installation of the MULF upgrade and the insertion of the mobile phone holder (snap-in adapter), the mobile phone must be paired as follows:

- Switch on the mobile phone

- Switch on the ignition, the main menu will appear in the on-board monitor

- Press the controller and select the **INFORMATION** menu point

- Select the **COMMUNICATION INTERFACE** menu point using the controller

- Press the controller and **BLUETOOTH COMMUNICATION ACTIVE** will appear on the on-board monitor

- Push the controller forwards, turn it anti-clockwise and select the **TELEPHONE** menu point

- Press the controller, **BLUETOOTH CAN BE CONNECTED IN THIS MENU** will appear in the on-board monitor

- Select and activate the Bluetooth option on the mobile phone (the steps required for this differ from phone to phone, see the manual supplied with the phone under "Searching for Bluetooth device, Connecting Bluetooth device, or Pairing Bluetooth device")

- After a successful search the display on the phone will show **FOUND**, the car will register itself on the phone with a 5-digit number. Select the **SELECT** menu point

- Turn the controller and select the **ADD DEVICE** menu point

- Press the controller, **PASSKEY** will appear in the on-board monitor

- Enter any 1 – 16-digit passkey using the controller

- Slide the controller downwards and select the **CONFIRM PASSKEY** menu point

- Press the controller

- Select **CONNECTION** or **REGISTRATION** on the mobile phone and confirm this

- **CONNECTED** will appear on the mobile phone

▷ You have a maximum of 10 seconds to enter the passkey or Bluetooth code. ◀

- Enter the same passkey and Bluetooth code in the mobile phone and confirm

- The message **HANDS-FREE ACCEPTED** will appear on the mobile

- Press the menu button next to the controller twice

- Switch off the ignition for at least 30 seconds

- Quit the mobile phone sub-menu again

▷ If the registration process was not completed successfully, repeat the entire process quickly. ◀