



Parts and Accessories Installation Instructions

Universal BMW Bluetooth Hands-Free Kit Upgrade BMW 3 Series Coupé and Saloon (E46/2/4) from 03/02

These installation instructions are only valid for cars with SA 640 (telephone preparation).

Important information

This upgrade kit is for use within the BMW dealership organisation only.

Subject to technical modifications.

Target group

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.

Installation information

Ensure that the cables/lines are not kinked or damaged as you install them in the car.

The installed cables are to be secured with cable ties.

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

Ordering instructions

Telephone console insert

The black telephone console insert is supplied in the upgrade kit.

An insert for the centre console in other colours for cars with different interior colours can be ordered if required. See the EPC for all further ordering information.

The snap-in adapter is not supplied with the upgrade kit and must be ordered separately for the various telephones.

List of special equipment

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

The various sections contain corresponding information.

SA 401	Tilt and slide sunroof
SA 602	On-board monitor
SA 606	Radio navigation system
SA 609	Navigation system
SA 660	BMW Reverse radio
SA 661	BMW Business radio
SA 662	BMW Business CD radio

Installation time

Approx. 2 hours, but this may vary depending on the condition of the car and the equipment in it.

Pictograms



denotes instructions that draw your attention to special features.

◀ denotes the end of the instruction or caution text.

Retrofit kit No.

84 64 0 152 501

Special tools required

None

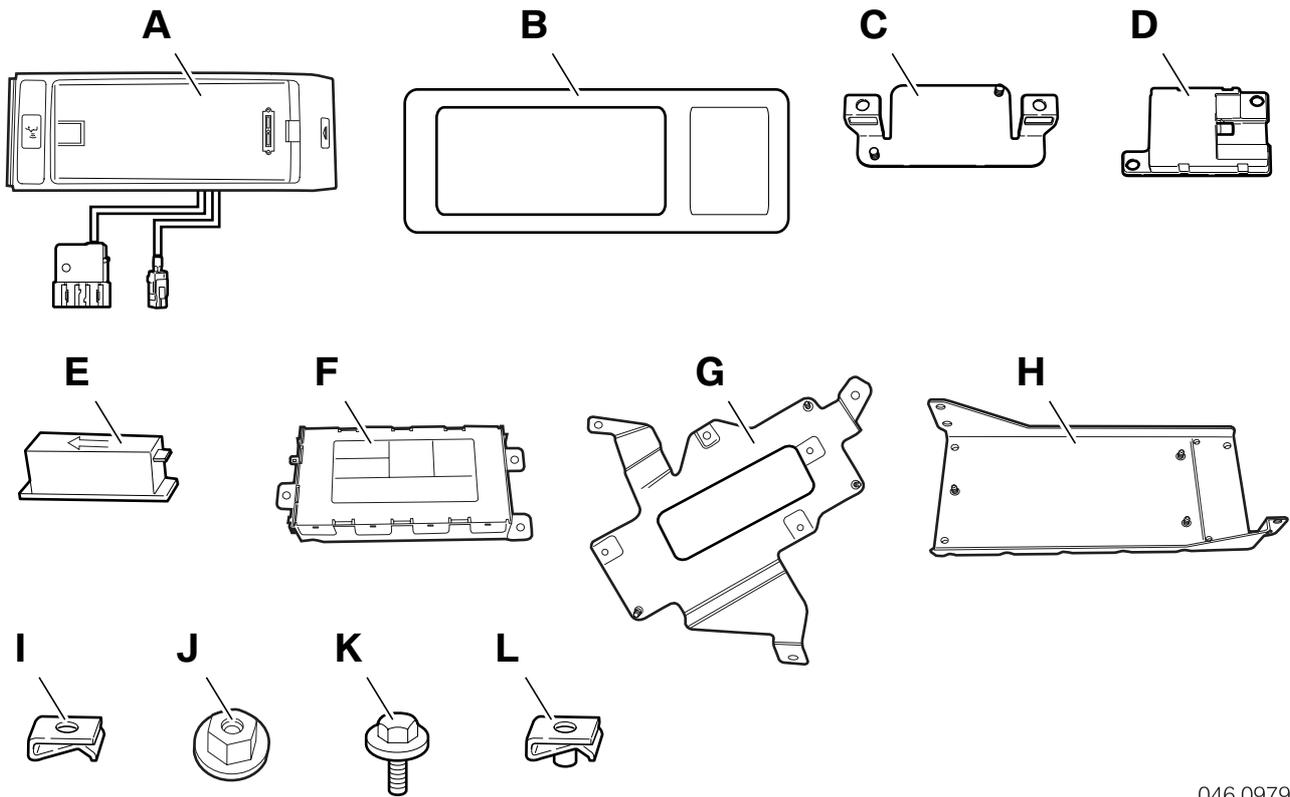
Contents

Section	Page
1. Preparations.....	4
2. Parts list	5
3. Installation and cabling diagram.....	6
4. To install and connect the universal charger/hands-free electronic control unit (cars with SA 660/661/662 only).....	7
5. To install and connect the universal charger/hands-free electronic control unit (cars with SA 602/606/609 only).....	10
6. To install and connect the eject box	11
7. To install the hands-free microphone	13
8. Concluding work	14

1. Preparations

	TIS instruction No.
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all:	
Left boot – wheel arch trim	51 47 151
Oddments box	51 16 200
Ceiling light	63 31 000

2. Parts list

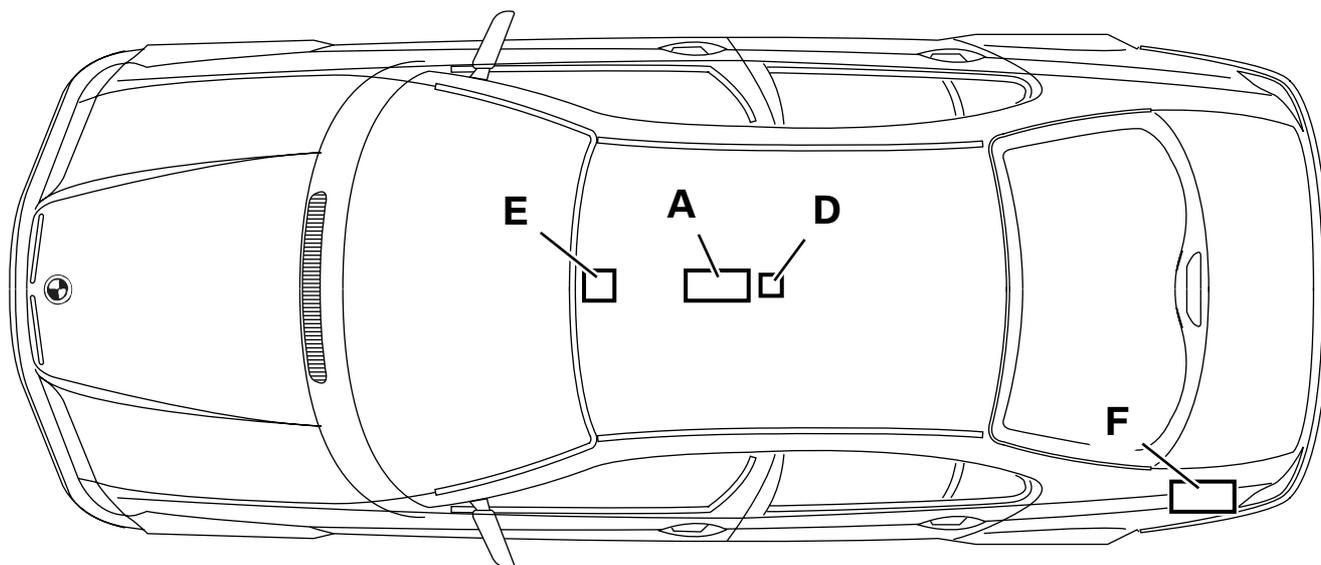


046 0979 Z

Legend

- A Eject box
- B Telephone console insert
- C Holder for WDCT aerial
- D WDCT aerial
- E Hands-free microphone
- F ULF (universal charger/hands-free electronic control unit)
- G ULF holder (cars with SA 660/661/662 only)
- H ULF holder (cars with SA 602/606/609 only)
- I Speed nut St 4.2 (2x)
- J Hexagonal nut M5 (5x)
- K Hexagonal screw M5 x 14 (6x)
- L Speed nut M5 (6x)

3. Installation and cabling diagram

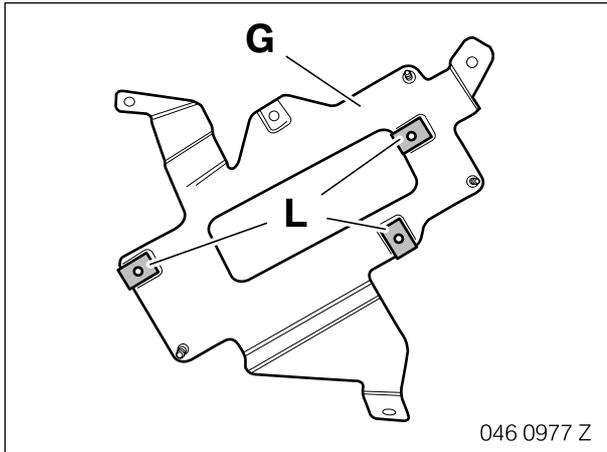


046 0961 Z

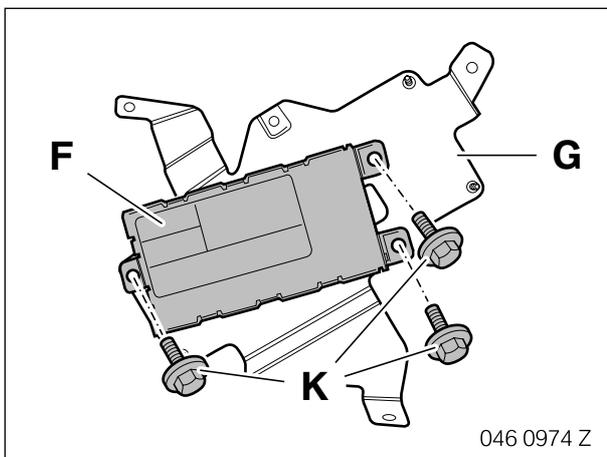
Legend

- A Eject box
- D WDCT aerial
- E Hands-free microphone
- F ULF (universal charger/hands-free electronic control unit)

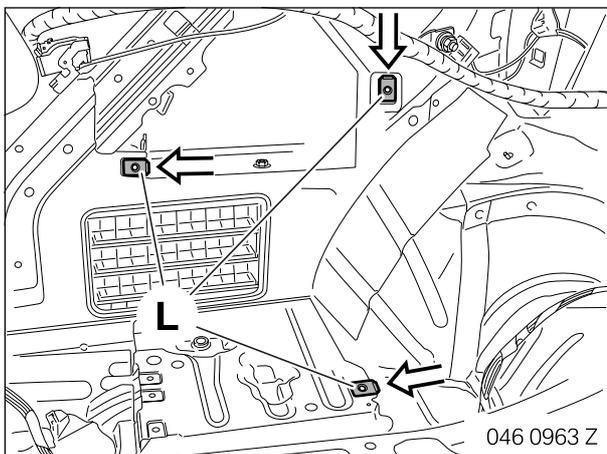
4. To install and connect the universal charger/hands-free electronic control unit (cars with SA 660/661/662 only)



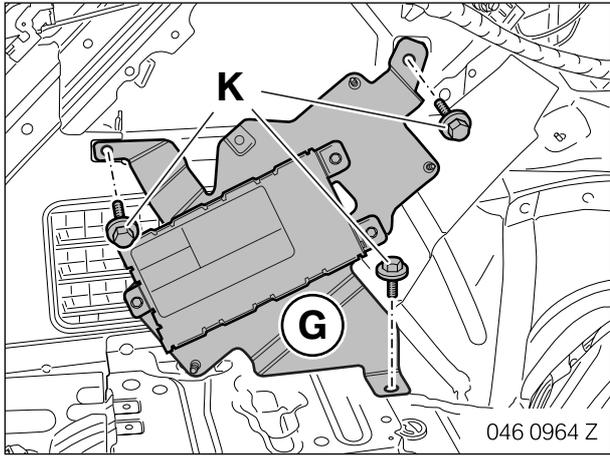
Push the speed nuts **L** onto the holder **G**.



Use the hexagonal screws **K** to screw the universal charger/hands-free electronic control unit **F** onto the holder **G**.

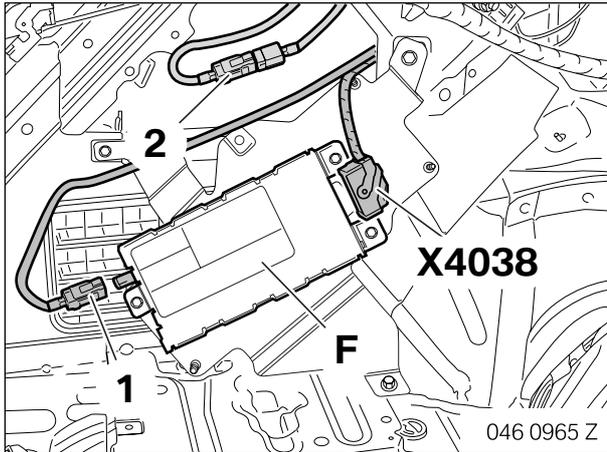


Push the speed nuts **L** on in the boot at the rear left.



Use the hexagonal screws **K** to screw on the holder **G** in the boot at the rear left.

4. To install and connect the universal charger/hands-free electronic control unit (cars with SA 660/661/662 only)

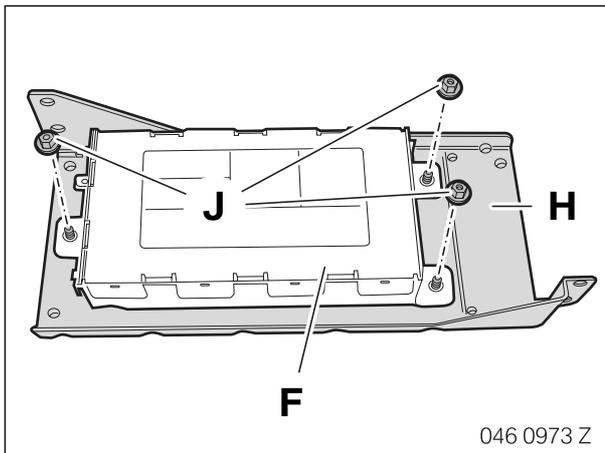


Connect the white FAKRA plug (1) of the WDCT aerial to the tied back, black 54-pin plug **X4038** on the universal charger/hands-free electronic control unit **F**.

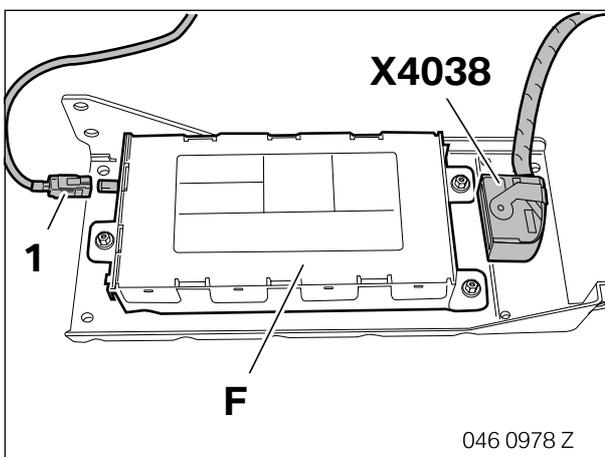


Make sure that the standard aerial cable (2) is plugged onto the standard wiring harness. ◀

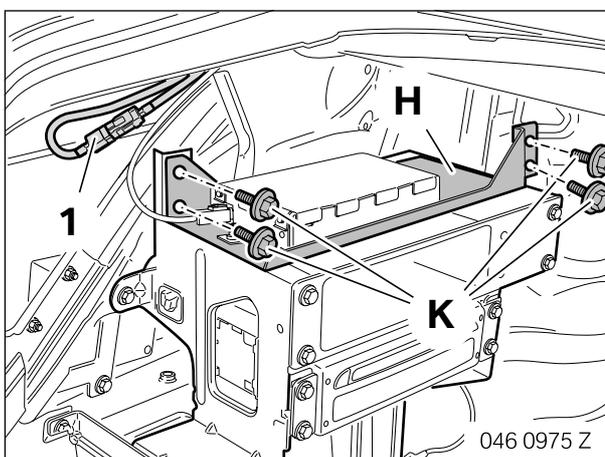
5. To install and connect the universal charger/hands-free electronic control unit (cars with SA 602/606/609 only)



Use the hexagonal nuts **J** to screw the universal charger/hands-free electronic control unit **F** onto the holder **H**.



Connect the white FAKRA plug (1) of the WDCT aerial to the tied back, black 54-pin plug **X4038** on the universal charger/hands-free electronic control unit **F**.

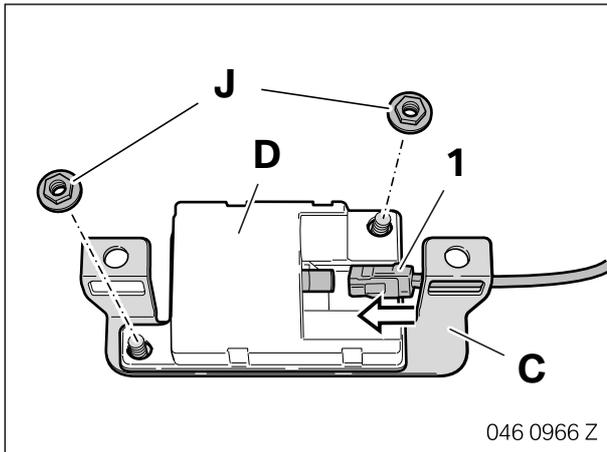


Use the hexagonal screws **K** to screw the holder **H** onto the module holder.



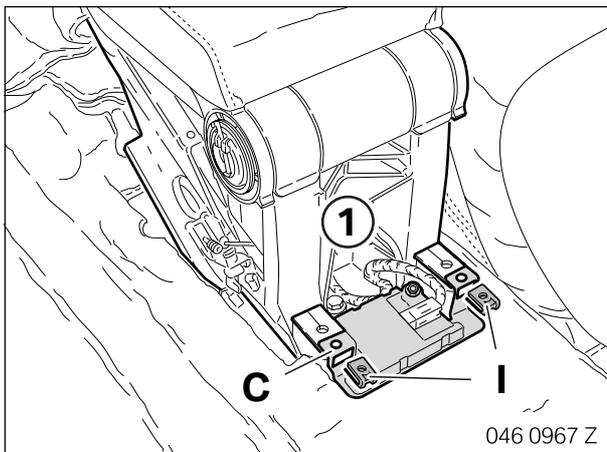
Make sure that the standard aerial cable (1) is plugged onto the standard wiring harness. ◀

6. To install and connect the eject box



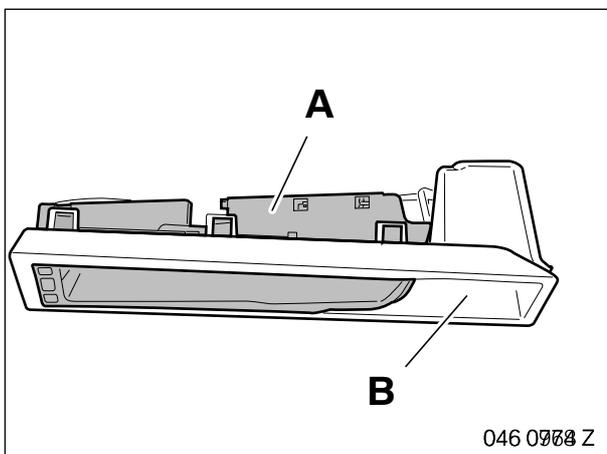
Put the WDCT aerial **D** onto the holder **C** and screw it on using hexagonal nuts **J**.

Connect the white FAKRA plug (1) to the WDCT aerial **D**.

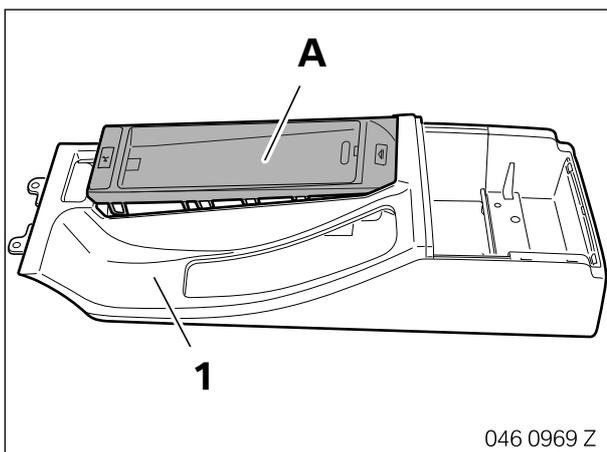


Insert the WDCT aerial and holder **C** into the mounting in the centre console (1).

Push on the speed nuts **I**.

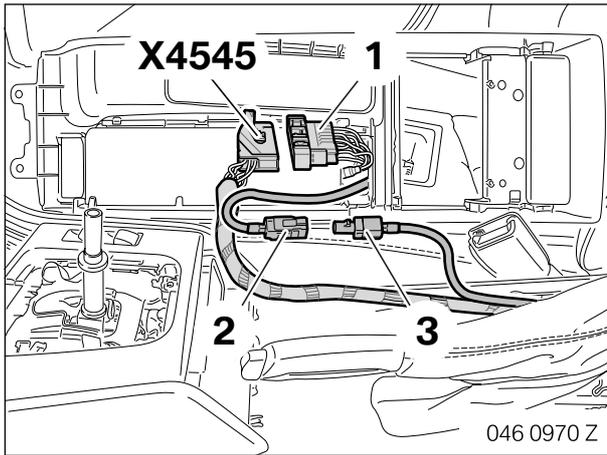


Clip the eject box **A** into the telephone console insert **B**.



Clip the telephone console insert and eject box **A** into the oddments box (1).

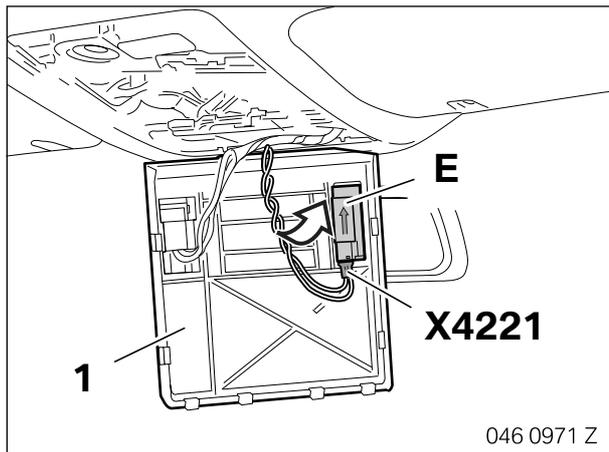
6. To install and connect the eject box



Connect the black 18-pin plug (1) of the eject box to the plug **X4545** on the standard wiring harness.

Connect the FAKRA plug of the eject box (2) to the black FAKRA plug on the standard aerial cable (3).

7. To install the hands-free microphone

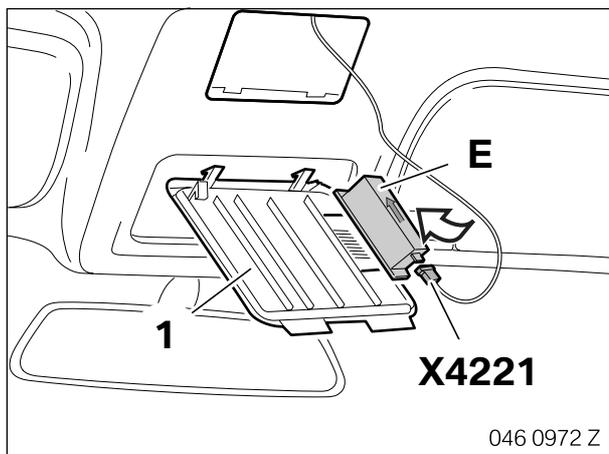


Cars with SA 401 only

Release the tied back plug **X4221** from the standard wiring harness and connect it to the hands-free microphone **E**.

▶ The arrow on the hands-free microphone **E** must point to the front of the car. ◀

Clip the hands-free microphone **E** into the trim (1).



Cars without SA 401 only

Release the tied back plug **X4221** from the standard wiring harness and connect it to the hands-free microphone **E**.

▶ The arrow on the hands-free microphone **E** must point to the front of the car. ◀

Clip the hands-free microphone **E** into the trim (1).

8. Concluding work



This upgrade system does not require coding. ◀

- Connect battery
- Conduct a brief test with DISPlus/MoDiC III/GT1.
- Synchronize the mobile phone and the universal charger/hands-free electronic control unit
- Activate the Bluetooth function of the mobile phone (see the mobile phone owner's manual)
- Press and hold the push-to-talk button for about 1 second whilst switching on terminal R
- Release the push-to-talk button. The radio display shows **"BT CONNECTION"** and the MID or on-board monitor displays **"BLUETOOTH CONNECTION"**.



The checklamps on the MID or on-board monitor flash during the connection phase. ◀

- Activate the "Locate Bluetooth Devices" menu on the mobile phone (see the mobile phone owner's manual). This process may take a few minutes.
- Work through additional menus in accordance with the instructions displayed on the mobile phone
- When prompted to do so, enter the 4 digit **"BLUETOOTH PASSKEY"** (see the sticker on the owner's manual) using the mobile phone keypad
- The radio, MID or on-board monitor displays **"SUCCESSFUL"** to confirm that synchronisation has been carried out correctly
- Switch off the ignition – the connection is terminated
- Conduct a function test
- Assemble the car again following the instructions to dismantle it in reverse order



Refer the DIS (Diagnostic Information System) for the circuit diagram of the telephone preparation (SA 640), if required. ◀