

ACCESSORIES AND EQUIPMENT

Communication Systems - Repair Instructions

USB HUB

84 10 050 REMOVING AND INSTALLING (REPLACING) USB HUB

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD PROTECTION).

Necessary preliminary tasks:

- Remove **luggage compartment trim on left side panel** . See REMOVING AND INSTALLING/REPLACING TRUNK TRIM PANEL ON LEFT SIDE PANEL
- Partially detach **left luggage compartment wheel arch trim** . See REMOVING AND INSTALLING/REPLACING LEFT LUGGAGE COMPARTMENT WHEEL ARCH TRIM

Release screws (1) and feed out USB hub with holder (2).

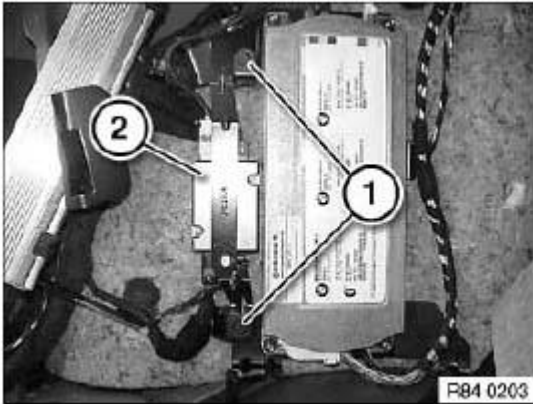


Fig. 1: Identifying Screws And USB Hub With Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts (1) and disconnect plug connections (2).

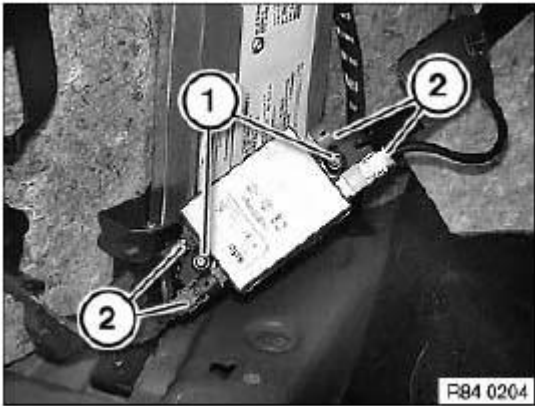


Fig. 2: Identifying Nuts And Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

COMBOX, TCB, TELEPHONE

84 11 550 REMOVING AND INSTALLING/REPLACING HANDS-FREE MICROPHONE

Special tools required:

- **64 1 020**

Lever out front microphone trim (1) with special tool **64 1 020**.

Disconnect plug connection underneath and remove microphone trim (1).

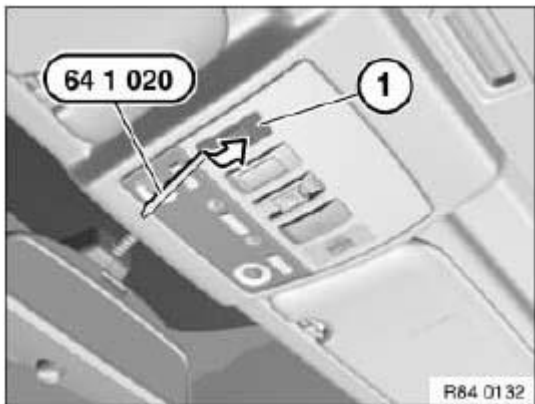


Fig. 3: Removing Front Microphone Trim With Special Tool 64 1 020
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Disconnecting the plug connection for the hands-free microphone or emergency SOS call button results in fault memory entries in the telephone control unit (limitation in the emergency SOS call system).

After fitting, read out fault memory and if necessary delete entries.

Unlock detent lug (1) and feed out hands-free microphone (2) in direction of arrow.

Installation:

Arrow on hands-free microphone (2) points in driving direction.

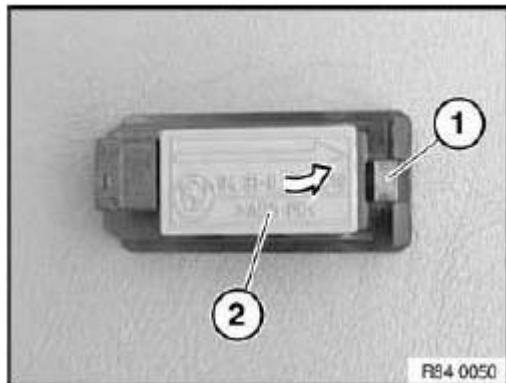


Fig. 4: Unlocking Detent Lug And Feeding Out Hands-Free Microphone
Courtesy of BMW OF NORTH AMERICA, INC.

84 11 600 REPLACING CORDLESS KEYPAD HANDSET

NOTE: For operating cordless keypad handset, refer to operating instructions of corresponding telephone.

84 11 610 REMOVING AND INSTALLING/REPLACING EJECT BOX (CORDLESS KEYPAD HANDSET)

Necessary preliminary tasks:

- If necessary, remove cordless keypad handset from eject box
- Remove **fresh-air grille in rear cabin** . See **REMOVING AND INSTALLING/REPLACING REAR CABIN FRESH-AIR GRILLE**

If necessary, disconnect antenna plug (1).

Disconnect plug connection (2).

Unlock socket housing on plug connection (2) and **SLIDE OUT** contact carrier.

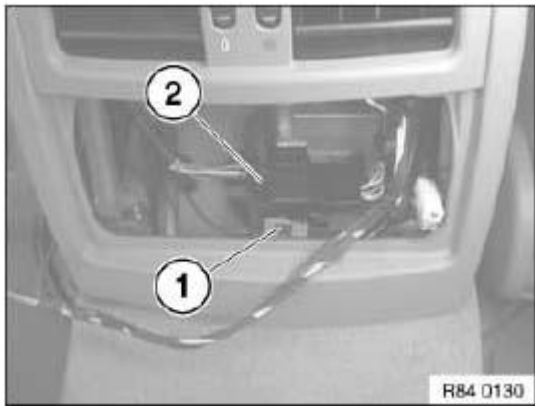


Fig. 5: Identifying Antenna Plug And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Unlock eject box (1) and fold up.

Release screws (2).

Feed out plug connection and remove eject box (1).

Installation:

Ensure correct cable routing in eject box (1).

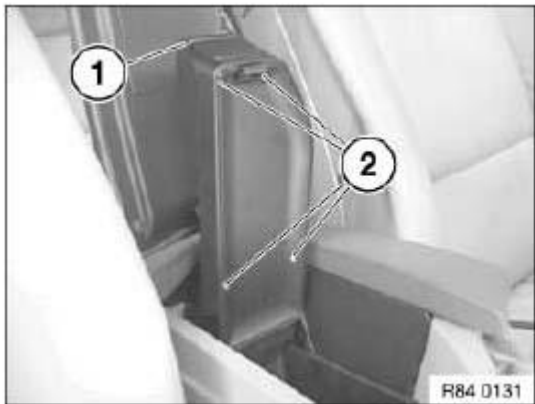


Fig. 6: Identifying Eject Box And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

84 11 650 REMOVING AND INSTALLING/REPLACING TELEMATIC CONTROL UNIT (TCU) (OPTION SA633/SA638/SA639/SA664)

IMPORTANT: *Replacement with option SA638/SA664:*

- Carry out **PROGRAMMING/CODING**
- If necessary, carry out coupling procedure

Replacement with option SA633/SA639:

- Carry out **PROGRAMMING/CODING**
- Via Diagnosis and Information System (DIS):
 - Service functions
 - Start subsequent assessment

IMPORTANT: Read and comply with notes on **PROTECTION AGAINST ELECTROSTATIC DAMAGE (ESD PROTECTION)** .

NOTE: **FOLLOW INSTRUCTIONS FOR HANDLING FIBRE OPTIC CABLES.**

Necessary preliminary tasks:

- Disconnect **battery negative lead**
- Remove **luggage compartment wheel arch trim on left** . See **REMOVING AND INSTALLING/REPLACING LEFT LUGGAGE COMPARTMENT WHEEL ARCH TRIM**

Unlock plug connections (1) and (2) and disconnect.

Unfasten antenna plug (3) and disconnect.

Release nuts (4) and remove TCU (5).

Installation:

Observe color coding of aerial/antenna plugs (3).

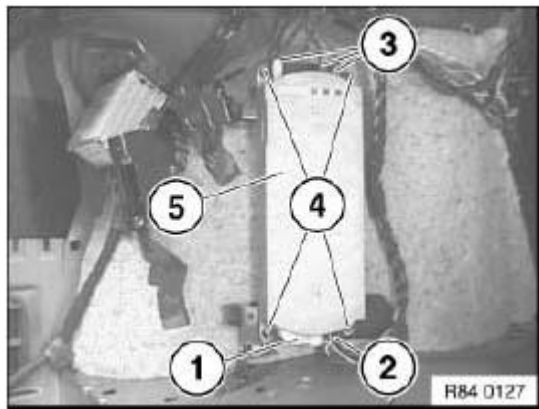


Fig. 7: Identifying Plug Connection, Antenna Plug, Nuts And TCU

Courtesy of BMW OF NORTH AMERICA, INC.

HANDHELD COMPUTER

84 21 526 REMOVING AND INSTALLING/REPLACING LINE COMPENSATOR

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD PROTECTION).

Necessary preliminary tasks:

- Remove **luggage compartment wheel arch trim on left**. . See REMOVING AND INSTALLING/REPLACING LEFT LUGGAGE COMPARTMENT WHEEL ARCH TRIM

Release knurled nuts.

Disconnect antenna plug (1).

Unfasten plug connection (2) and disconnect.

Release screws (3) and remove compensator (4).

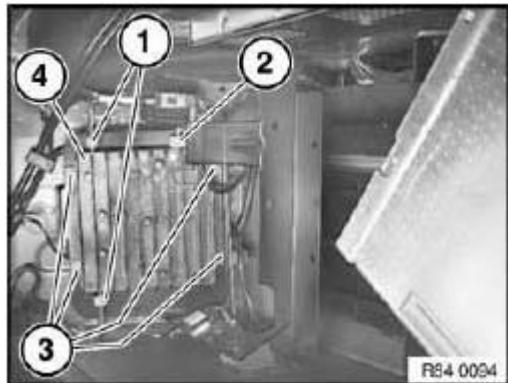


Fig. 8: Identifying Antenna Plug, Plug Connection, Screws And Compensator
Courtesy of BMW OF NORTH AMERICA, INC.

84 21 535 REMOVING AND INSTALLING/REPLACING HANDS-FREE CHARGING ELECTRONICS

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD PROTECTION).

NOTE: Comply with notes and instructions on HANDLING OPTICAL WAVEGUIDES .

Necessary preliminary tasks:

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- Disconnect **battery negative lead**
- Remove **luggage compartment trim on left side panel** . See REMOVING AND INSTALLING/REPLACING TRUNK TRIM PANEL ON LEFT SIDE PANEL
- Partially remove **luggage compartment wheel arch trim on left.** . See REMOVING AND INSTALLING/REPLACING LEFT LUGGAGE COMPARTMENT WHEEL ARCH TRIM

Disconnect antenna lead plug connection (1).

Unscrew nuts (2).

Disconnect plug connection (3).

Remove hands-free charging electronics (4) in direction of arrow.

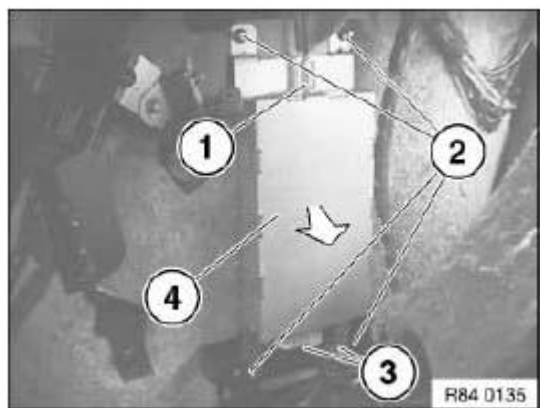


Fig. 9: Removing Hands-Free Charging Electronics
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

- Carry out VEHICLE PROGRAMMING/CODING
- If necessary, log mobile phone on to vehicle

84 21 542 REMOVING AND INSTALLING (REPLACING) HANDS-FREE CHARGING ELECTRONICS (HIGH)

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD PROTECTION).

NOTE: Comply with notes and instructions on HANDLING OPTICAL WAVEGUIDES .

Necessary preliminary tasks:

- Disconnect **battery negative lead**

- Partially remove **luggage compartment floor trim panel** . See **REMOVING AND INSTALLING/REPLACING LUGGAGE COMPARTMENT FLOOR TRIM PANEL**
- If necessary, remove storage tray for car jack
- If necessary, remove spare wheel
- Remove control unit cover

M5:

Remove hands-free charging electronics (1) from shell insert (2).

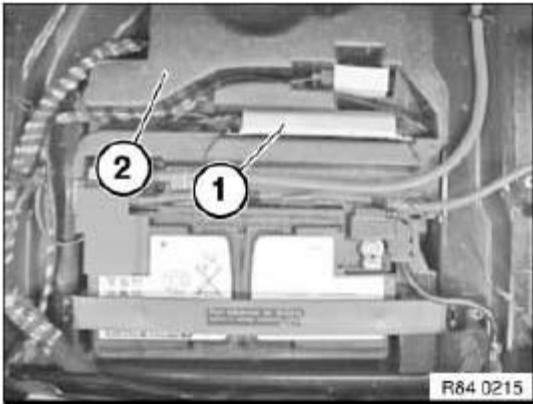


Fig. 10: Identifying Hands-Free Charging Electronics And Shell Insert
Courtesy of BMW OF NORTH AMERICA, INC.

All:

Remove hands-free charging electronics (1) from device mounting (2).

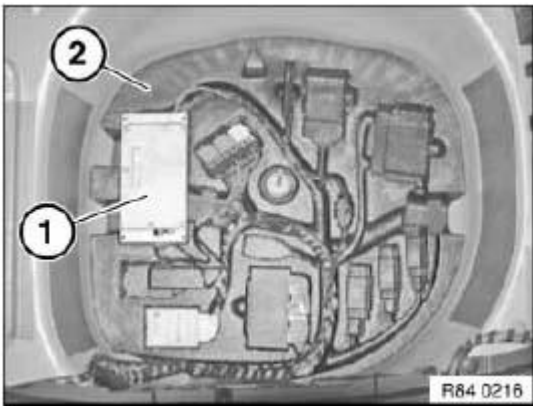


Fig. 11: Identifying Hands-Free Charging Electronics And Device Mounting
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

Remove hands-free charging electronics (2).

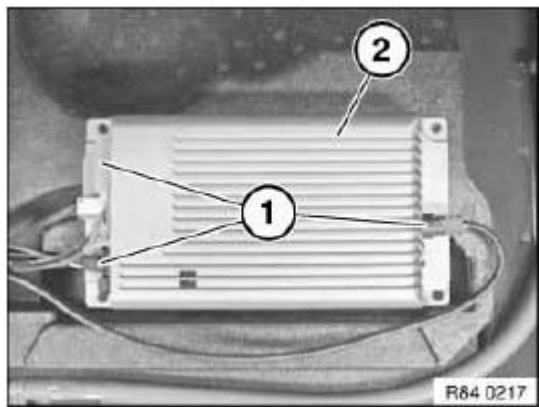


Fig. 12: Identifying Plug Connection And Hands-Free Charging Electronics
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

- Carry out **VEHICLE PROGRAMMING/CODING**
- If necessary, log mobile phone on to vehicle

HANDS-FREE SYSTEM

84 31 020 REMOVING AND INSTALLING/REPLACING HANDS-FREE SYSTEM SPEAKER

Necessary preliminary tasks:

- Remove **trim panel for pedal assembly** . See **REMOVING AND INSTALLING/REPLACING PANEL FOR PEDALS**

Screw on threaded ring (1) in direction of arrow and remove hands-free system speaker (2) from trim for pedal assembly (3).

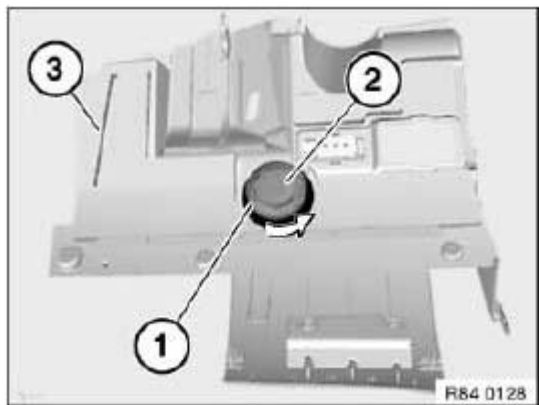


Fig. 13: Screwing On Threaded Ring

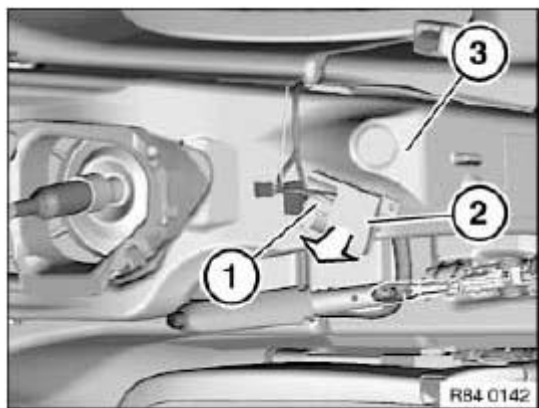
Courtesy of BMW OF NORTH AMERICA, INC.

ANTENNA**84 50 060 REMOVING AND INSTALLING/REPLACING BLUETOOTH ANTENNA***Necessary preliminary tasks:*

- Remove **center console** . See **REMOVING AND INSTALLING STORAGE COMPARTMENT**

Unfasten plug connection (1) and disconnect.

Detach Bluetooth antenna (2) in direction of arrow from rear compartment ventilation duct (3).

**Fig. 14: Detaching Bluetooth Antenna**

Courtesy of BMW OF NORTH AMERICA, INC.

When replacing dual-lock tape:

- Clean bonding surfaces.
- Stick on dual-lock tape and press down firmly with fingers for at least 2 secs. (ambient temperature at least 18 °C).
- Fit Bluetooth antenna on rear-compartment ventilation duct only after a minimum period 30 minutes (strain-free dwell time).
- Subjecting the bond to premature load will result in a loss of adhesion and thus a defective bond => use new dual-lock tape.

Installation:

Fit Bluetooth antenna (1) during installation so that dual-lock tapes (2) and (3) coincide exactly.

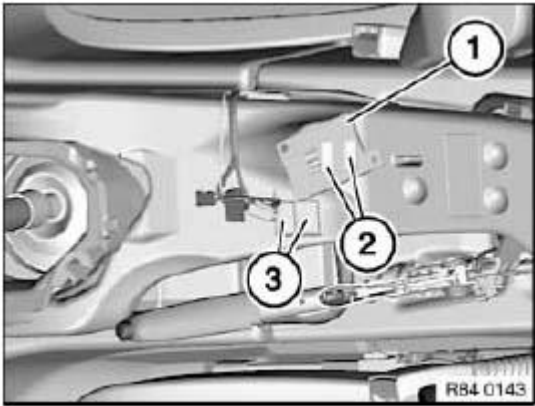


Fig. 15: Identifying Bluetooth Antenna And Dual-Lock Tapes

Courtesy of BMW OF NORTH AMERICA, INC.

65 20 030 REMOVING AND INSTALLING/REPLACING EMPTY HOUSING FOR ROOF-MOUNTED AERIAL

NOTE: Clean roof.

Tape off roof surface (2) around aerial cover (3) with yellow adhesive tape (1). To do so, slide adhesive tape slightly under roof aerial.

If necessary, carefully heat vehicle roof in aerial area with a hot air blower (max. 50 °C).

IMPORTANT: Risk of damage!

Handle special tool correctly and make sure you are standing safely with a firm foothold next to vehicle.

In order to prevent dents in the roof outer skin, do not exert any pressure on the roof.

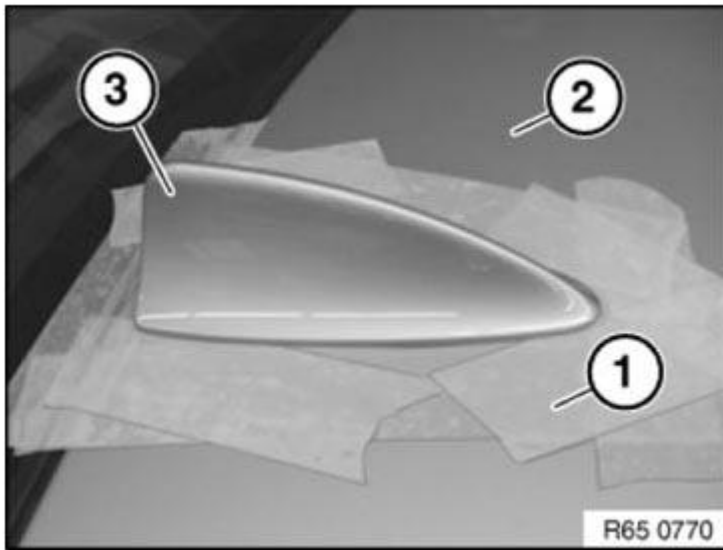


Fig. 16: Identifying Roof With Adhesive Tape And Housing
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Risk of damage!

Make sure your arms do not cross over (1) when holding special tool 65 2 010 (knife).

Pull handle must always be ahead of the guiding hand (2).

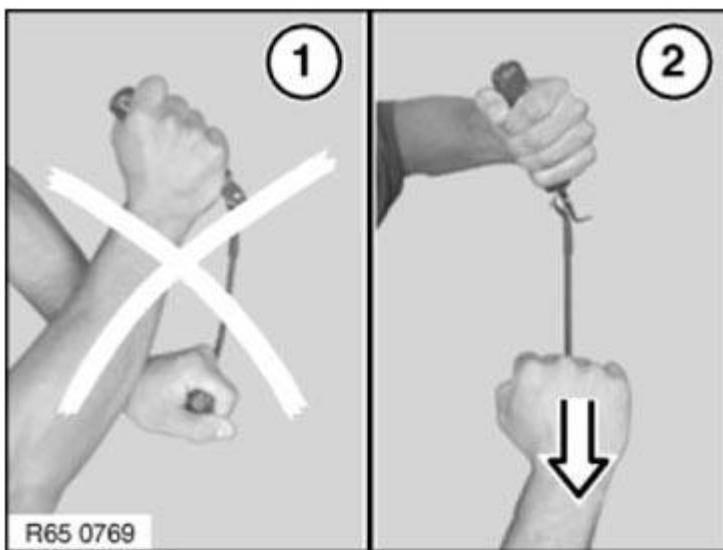


Fig. 17: Identifying Proper Position Of Holding Special Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Cut through adhesive bead all round with special tool 65 2 010 (knife).

Pull on handle (1) and align blade on handle (2).

NOTE: Use sharp blades only. If necessary, sharpen blade.

Remove cover of multiband telephone aerial (3).

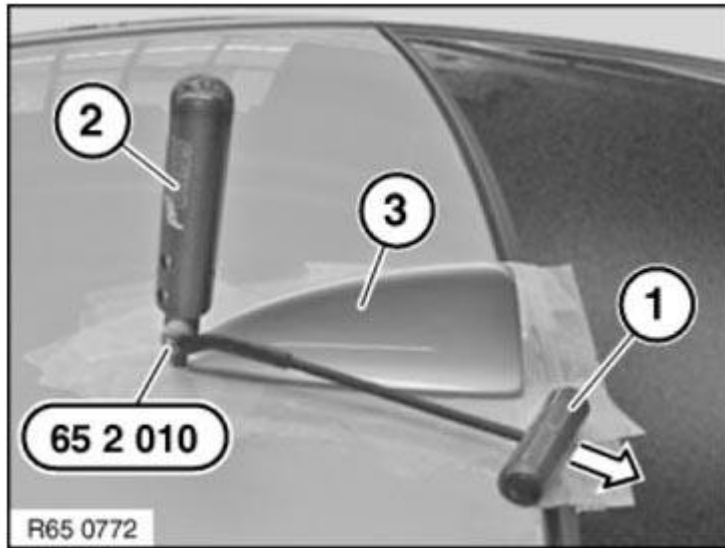


Fig. 18: Cutting Adhesive Bead Using Special Tool 65 2 010
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

- The cover of the multiband telephone aerial is secured with window adhesive. All preparatory operations correspond to the **WINDOW CEMENTING INSTRUCTIONS**.

NOTE: The aerial cover must be replaced if its centering pins (1) are damaged.

Bonding surface (2) must be clean and free from grease.

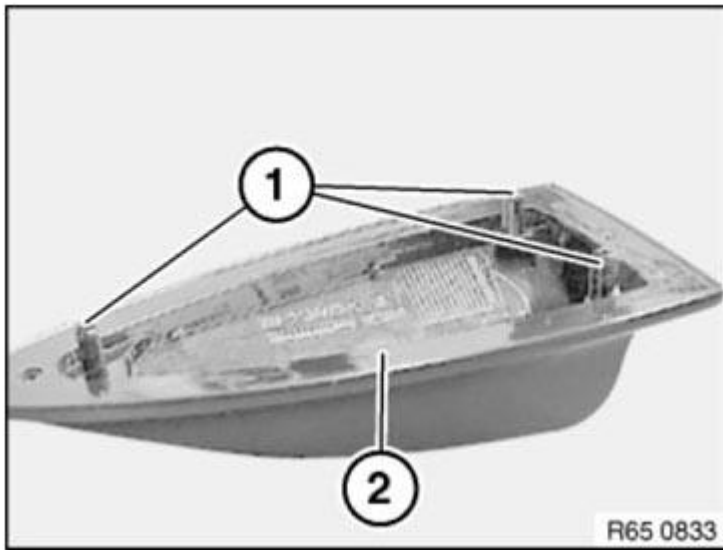


Fig. 19: Identifying Centering Pins And Bonding Surface
 Courtesy of BMW OF NORTH AMERICA, INC.

Position two spacers (1) on cleaned aerial cover.

Dimensions:

- A. 10 mm
- B. 14 mm

Position spacer (2) centrally and flush with shoulder of adhesive flange.

IMPORTANT: Spacers must be used without fail!

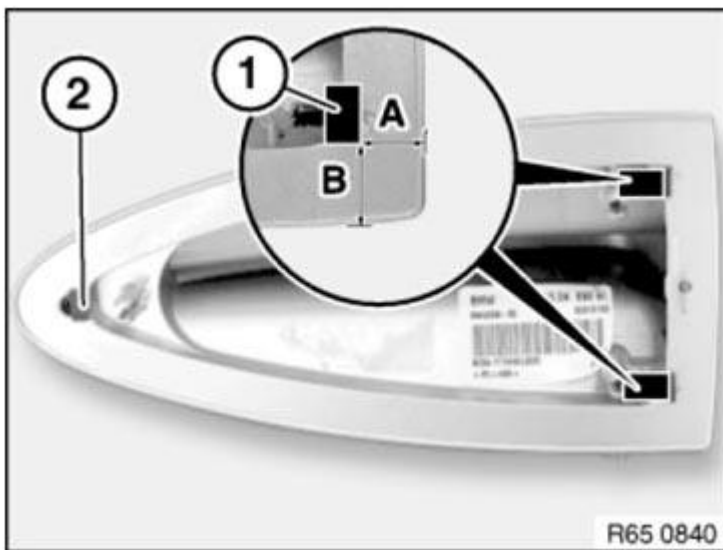


Fig. 20: Identifying Spacer Positions

Courtesy of BMW OF NORTH AMERICA, INC.

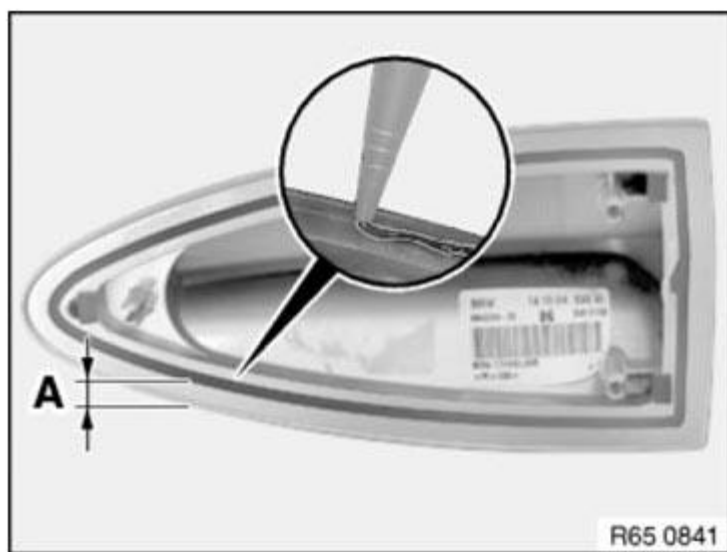
Apply trace of adhesive bead all round outer contour as follows.

Distance between adhesive bead and edge of aerial cover:

A. 6.5 mm $\pm$ 1 mm

Start and end of bead trace must have an overlap length of max. 10 mm.

IMPORTANT: To prevent the adhesive from escaping, the adhesive bead diameter must not exceed 3 mm $\pm$ 1 mm.

**Fig. 21: Identifying Distance Between Adhesive Bead And Edge Of Aerial Cover**

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Attach the aerial cover coated with adhesive by hand. To spread the adhesive better, move the cover back and forth horizontally slightly when pressing down.

If necessary, secure aerial cover with adhesive tape and do not press down on one side of the aerial more firmly than the other.

After bonding, leave vehicle to stand for at least 3 hours at room temperature.

To guarantee a permanent bond:

Only use washing installations after a period of 24 hours has passed.