

2007 ACCESSORIES & EQUIPMENT

Audio, Navigation and Anti-Theft - Repair Instructions - Cooper

11 MONO RADIO

65 11 030 REMOVING AND INSTALLING/REPLACING RADIO RECEIVER (BUILT-IN UNIT)

Necessary preliminary tasks:

- Remove cover strips for front center console

Release screws (1) and pull radio receiver back.

Remove holder (1) for radio wiring harness.

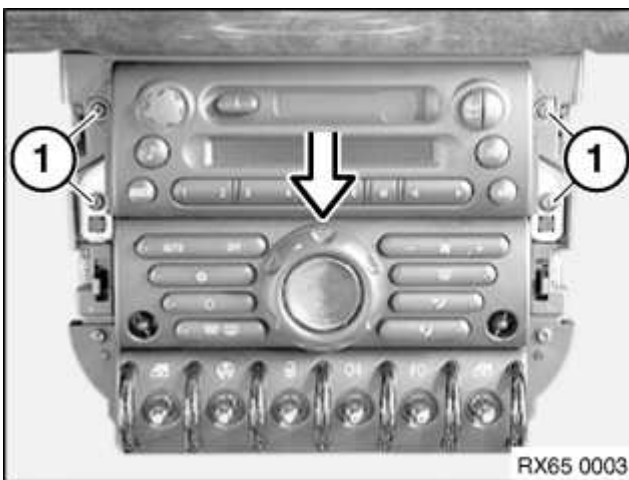


Fig. 1: Radio Receiver Mounting Screws And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten plug connection (2) and disconnect.

Disconnect antenna plug (3) and remove radio receiver.

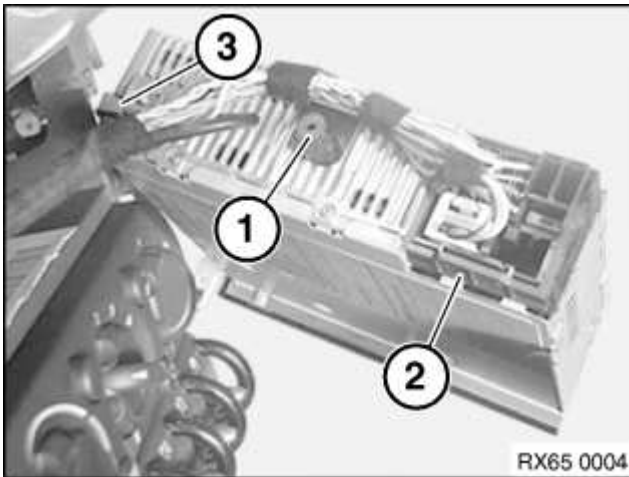


Fig. 2: Radio Receiver Holder, Plug Connection And Antenna Plug
Courtesy of BMW OF NORTH AMERICA, INC.

65 11 070 REMOVING AND INSTALLING/REPLACING CD CHANGER

Necessary preliminary tasks:

- Remove **Panel For Parcel Shelf**.

Release screw (1).

Tilt CD changer (2) inwards and feed out towards front.

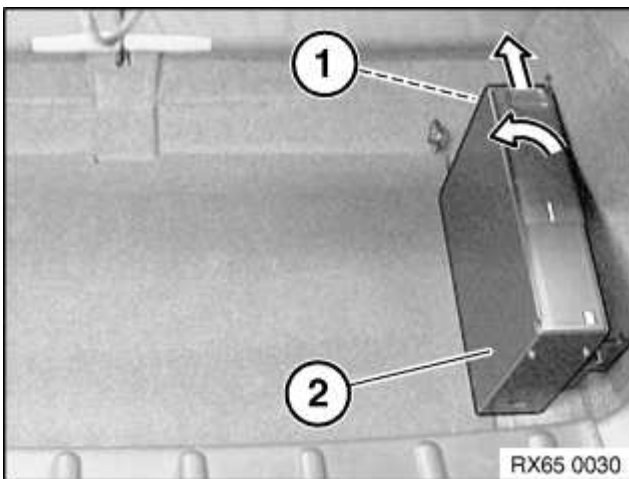


Fig. 3: CD Changer, Mounting Screw And Removal Directions
Courtesy of BMW OF NORTH AMERICA, INC.

Unlock plug connections (1) and disconnect.

Remove CD changer (2).

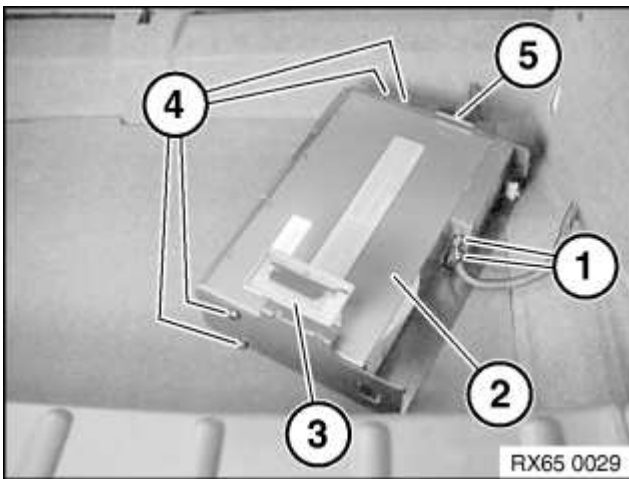


Fig. 4: Plug Connections, CD Changer, Trim, Mounting Screws And Changer Bracket
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

If necessary, remove CD changer trim (3).

Release screws (4) and remove CD changer (2) from CD changer bracket (5).

65 11 072 REMOVING AND INSTALLING/REPLACING CD CHANGER

NOTE: Follow Instructions For Handling Optical Fibres.

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove **Knee Protection, Passenger's Side**

Release screws (1).

Remove CD changer (2) with carrier and disconnect associated plug connection.

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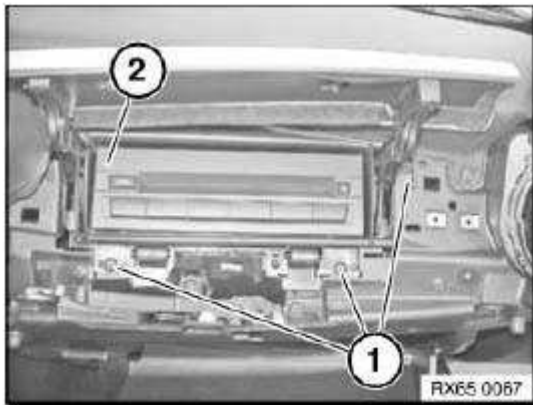


Fig. 5: Retaining Screws And CD Changer
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure retainer (1) is correctly seated.

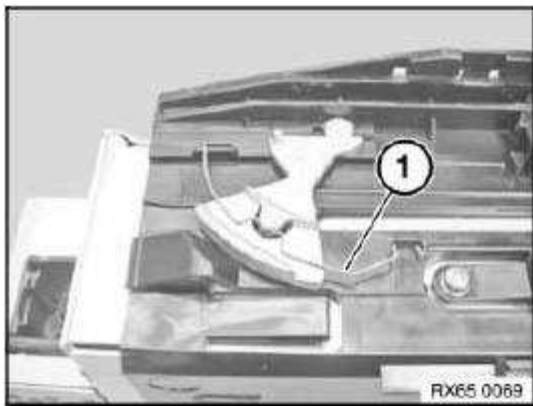


Fig. 6: CD Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

Release screw (1) on both sides and slide CD changer (2) out of carrier.

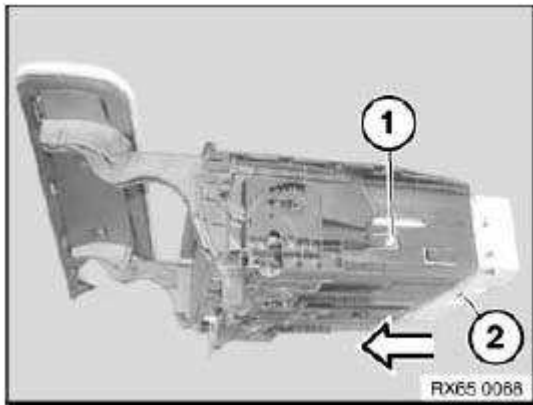


Fig. 7: Mounting Screw, CD Changer And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

65 11 080 REMOVING AND INSTALLING/REPLACING RADIO RECEIVER

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Disconnect Battery Negative Lead
- Remove Complete Instrument Cluster

Release screws (1).

Remove speedometer (2) from radio (3).

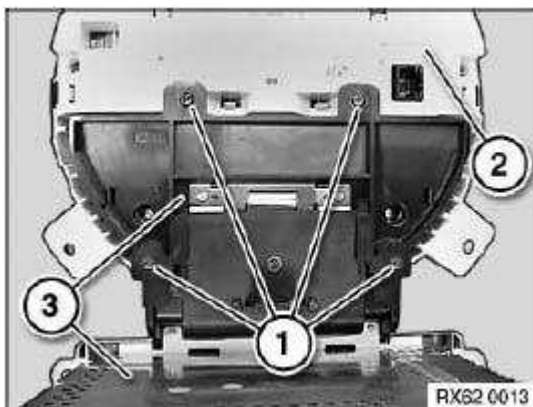


Fig. 8: Screws, Radio And Speedometer
Courtesy of BMW OF NORTH AMERICA, INC.

12 STEREO RADIO, AMPLIFIER

65 12 072 REMOVING AND INSTALLING/REPLACING AMPLIFIER

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove **Left Luggage Compartment Wheel Arch Trim**

Release screw (1) and slide amplifier (2) upwards in direction of arrow.

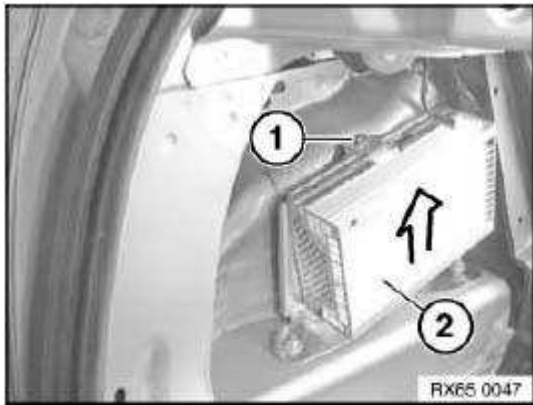


Fig. 9: Retaining Screw, Amplifier And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1) and remove amplifier (2).

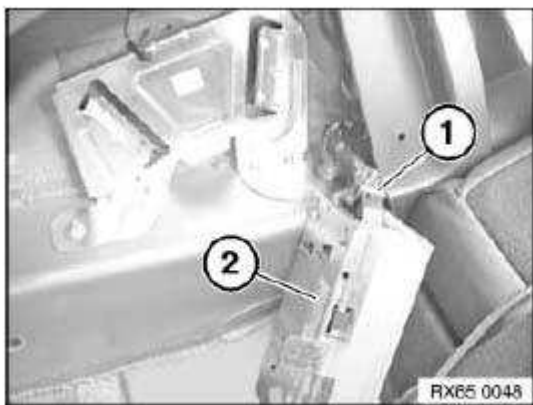


Fig. 10: Plug Connection And Amplifier
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Lugs (1) must be correctly slid into guide (2).

Check that amplifier (3) is securely seated.

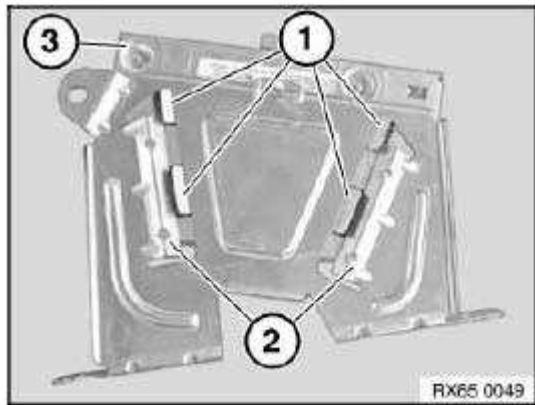


Fig. 11: Guide, Lugs And Amplifier

Courtesy of BMW OF NORTH AMERICA, INC.

13 SPEAKER AND COVER

65 13 040 REMOVING AND INSTALLING/REPLACING SPEAKER (WOOFER IN FRONT DOOR)

Necessary preliminary tasks:

- Remove **Front Door Trim**

Release screws (1).

Disconnect plug connection (2) and remove speaker.

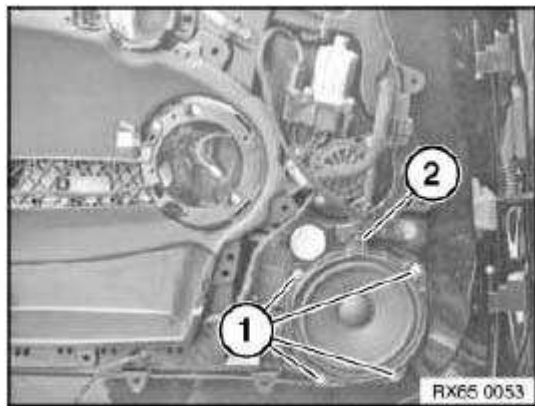


Fig. 12: Screws And Plug Connection

Courtesy of BMW OF NORTH AMERICA, INC.

65 13 050 REMOVING AND INSTALLING/REPLACING SPEAKER (TWEETER IN A-PILLAR TRIM)

Necessary preliminary tasks:

- Remove **Panel For Roof Pillar At Front**

Carefully unclip catches (1).

Remove speaker (2) and feed out electric lead (3).

Installation:

All catches (1) must not be damaged

If necessary, accompanying seal must not be missing!

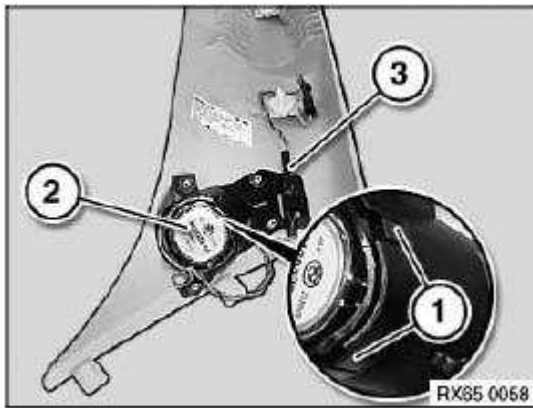


Fig. 13: Electric Lead, Catches And Speaker
Courtesy of BMW OF NORTH AMERICA, INC.

65 13 070 REMOVING AND INSTALLING/REPLACING SPEAKER (MID-RANGE SPEAKER IN FRONT DOOR)

Necessary preliminary tasks:

- Remove **Speaker Trim**

Release screws (1) and remove speaker (2).

Disconnect associated plug connection.

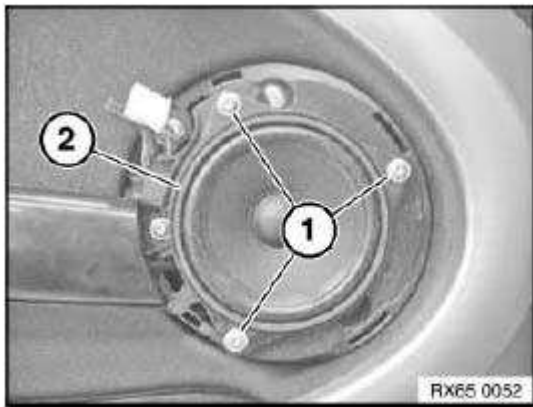


Fig. 14: Mounting Screws And Speaker
Courtesy of BMW OF NORTH AMERICA, INC.

65 13 080 REMOVING AND INSTALLING/REPLACING SPEAKER (REAR MID-RANGE SPEAKER)

Necessary preliminary tasks:

- Remove **Rear Side Trim Panel**

Release screws (1).

Remove speaker (2) and disconnect associated plug connection.

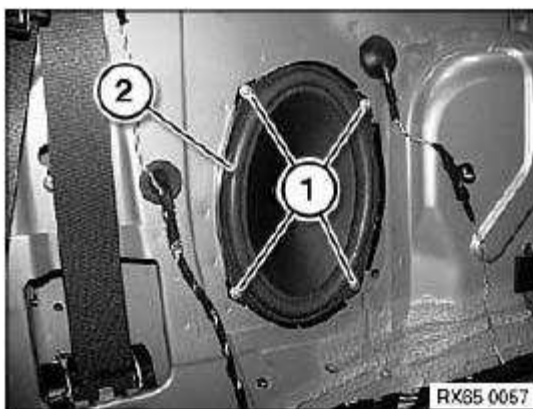


Fig. 15: Mounting Screws And Speaker
Courtesy of BMW OF NORTH AMERICA, INC.

65 13 090 REMOVING AND INSTALLING/REPLACING SPEAKER (TWEETER IN SIDE TRIM PANEL)

Necessary preliminary tasks:

- Remove **Rear Side Trim Panel**

Carefully unclip catches (1) and remove speaker (2).

Installation:

All catches (1) must not be damaged

If necessary, accompanying seal must not be missing!

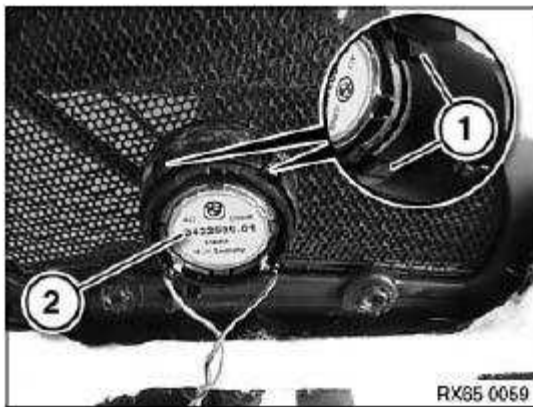


Fig. 16: Catches And Speaker

Courtesy of BMW OF NORTH AMERICA, INC.

20 AERIAL/ANTENNA

65 20 010 REMOVING AND INSTALLING/REPLACING ANTENNA ROD OF ROOF ANTENNA

Unscrew antenna rod in counterclockwise direction from antenna base and remove.

65 20 022 REMOVING AND INSTALLING/REPLACING ROOF MOUNTED AERIAL/ANTENNA

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Lower Roofliner

Disconnect plug connection (1).

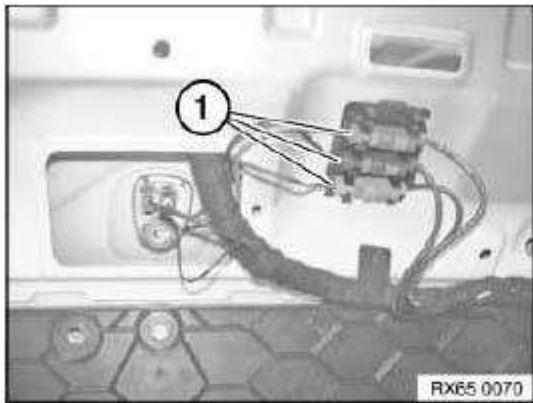


Fig. 17: Plug Connection

Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

Release retainer (2) and feed out roof antenna with leads towards top.

For tightening torque refer to 65 20 1AZ in **65 20 ROOF ANTENNA** .

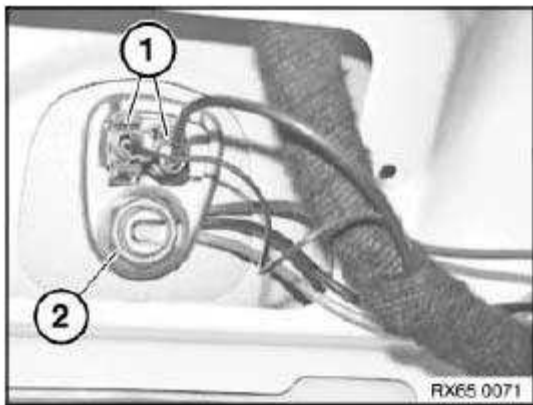


Fig. 18: Plug Connection And Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: **Roof antenna shown removed for purposes of clarity.**

Installation:

Ensure correct cable routing.

Feed antenna leads (1) through groove (2).

Tab (3) when installed secures antenna leads.

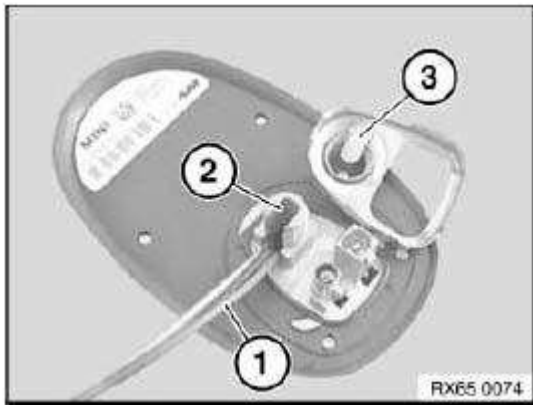


Fig. 19: Tab, Antenna Leads And Groove
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure guide (1) is correctly seated in roof opening (2).

Seal (3) must not be damaged.

Align roof antenna to car longitudinal axis.

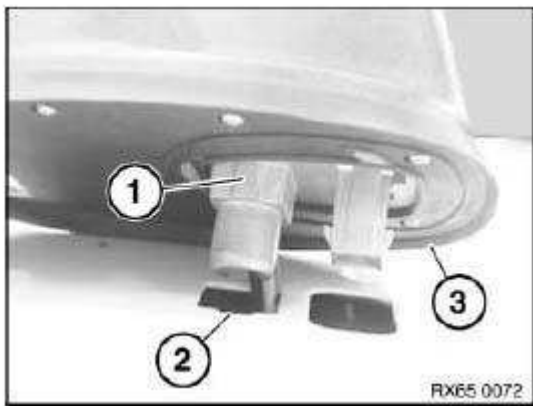


Fig. 20: Roof Opening, Guide And Seal
Courtesy of BMW OF NORTH AMERICA, INC.

65 20 090 REMOVING AND INSTALLING OR REPLACING AERIAL AMPLIFIER

Necessary preliminary tasks:

- Remove **Trim For Rear Lid At Bottom**

Disconnect plug connection (1, 2).

Release screws (3) and remove aerial/antenna amplifier (4).

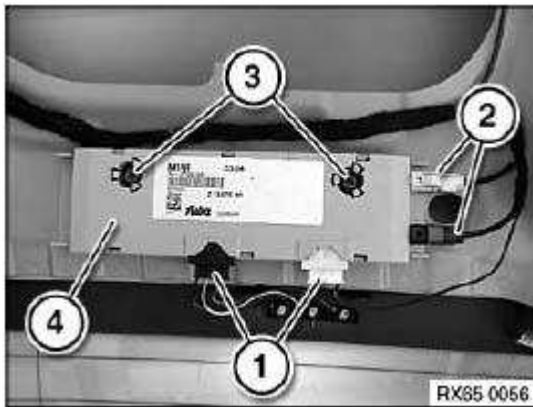


Fig. 21: Plug Connections, Mounting Screws And Aerial/Antenna Amplifier
Courtesy of BMW OF NORTH AMERICA, INC.

24 REAR WINDOW AERIAL/ANTENNA

65 24 020 REMOVING AND INSTALLING/REPLACING BLOCKING CIRCUIT

Necessary preliminary tasks:

- Remove Trim For Rear Lid At Bottom

Disconnect plug connections (1) and release screw (2).

Remove blocking circuit (3).

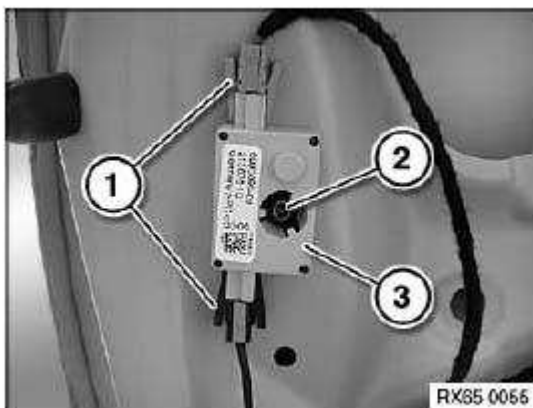


Fig. 22: Mounting Screw, Plug Connections And Blocking Circuit
Courtesy of BMW OF NORTH AMERICA, INC.

50 VIDEO AND TV EQUIPMENT

65 50 011 REMOVING AND INSTALLING (REPLACING) VIDEO MODULE FOR ON-BOARD MONITOR

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove left **Front Seat**

NOTE: Follow Instructions For Handling Optical Fibres.

Release screws (1) and remove cover (2) in direction of arrow.

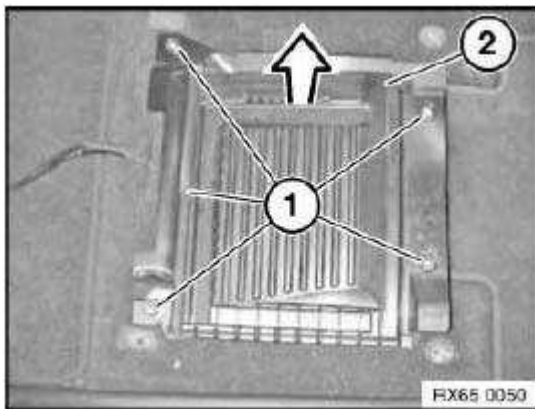


Fig. 23: Retaining Screws, Cover And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

Unfasten screws (2).

Unlock retaining lug (3) and remove video module (4).

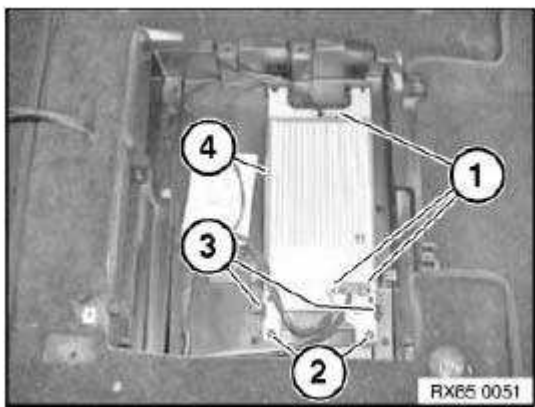


Fig. 24: Plug Connection, Mounting Screws, Retaining Lug And Video Module

Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

Carry out **coding/programming**.

65 50 563 REPLACING NAVIGATION DISPLAY

IMPORTANT: Read and comply with **Notes On Protection Against Electrostatic Damage (ESD Protection)**.

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove **Complete Navigation Instrument Cluster**

Release screws (1).

Remove navigation display from instrument cluster.

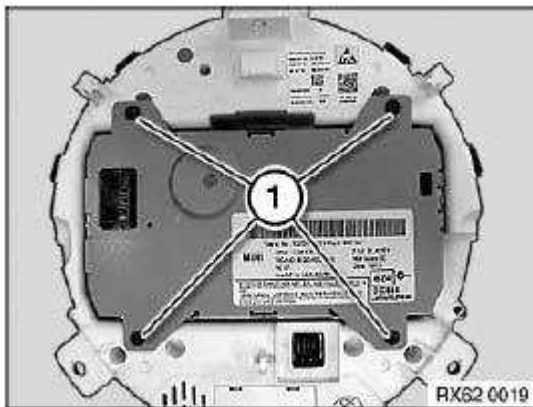


Fig. 25: Navigation Display Mounting Screws
Courtesy of BMW OF NORTH AMERICA, INC.

75 ANTI-THEFT ALARM SYSTEM

65 75 055 REMOVING AND INSTALLING/REPLACING TILT SENSOR FOR ANTI-THEFT ALARM SYSTEM

Necessary preliminary tasks:

- Remove **Mounting Bracket For Windscreen Wiper System**

Unscrew nuts.

Remove holder with pitch sensor and disconnect associated plug connection.

Replacement:

Release nut (1) and remove tilt sensor from holder.

Tightening torque for tilt sensor to holder = 7 Nm.

Installation:

Make sure tilt sensor is correctly seated in holder.

65 75 565 REMOVING AND INSTALLING/REPLACING MODULE FOR PASSENGER COMPARTMENT PROTECTION

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove Roof Operating Unit

Carefully unclip catches (1) and remove ultrasonic module (2).

Installation:

Catches (1) must not be damaged.

Direction arrow (3) must point in opposite direction to direction of travel.

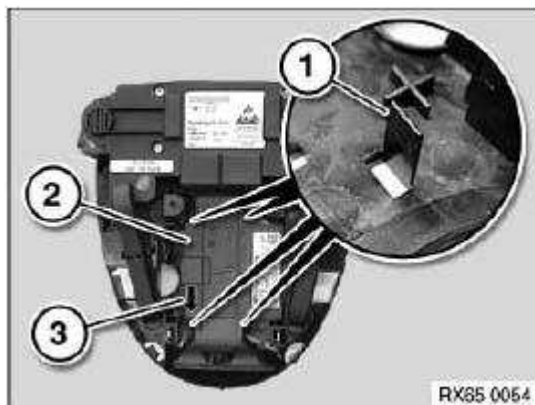


Fig. 26: Ultrasonic Module, Catches And Arrow
Courtesy of BMW OF NORTH AMERICA, INC.

77 AIRBAG TRIGGER DEVICE, DIAGNOSTICS

65 77 ... OVERVIEW OF SENSORS FOR AIRBAG SYSTEM

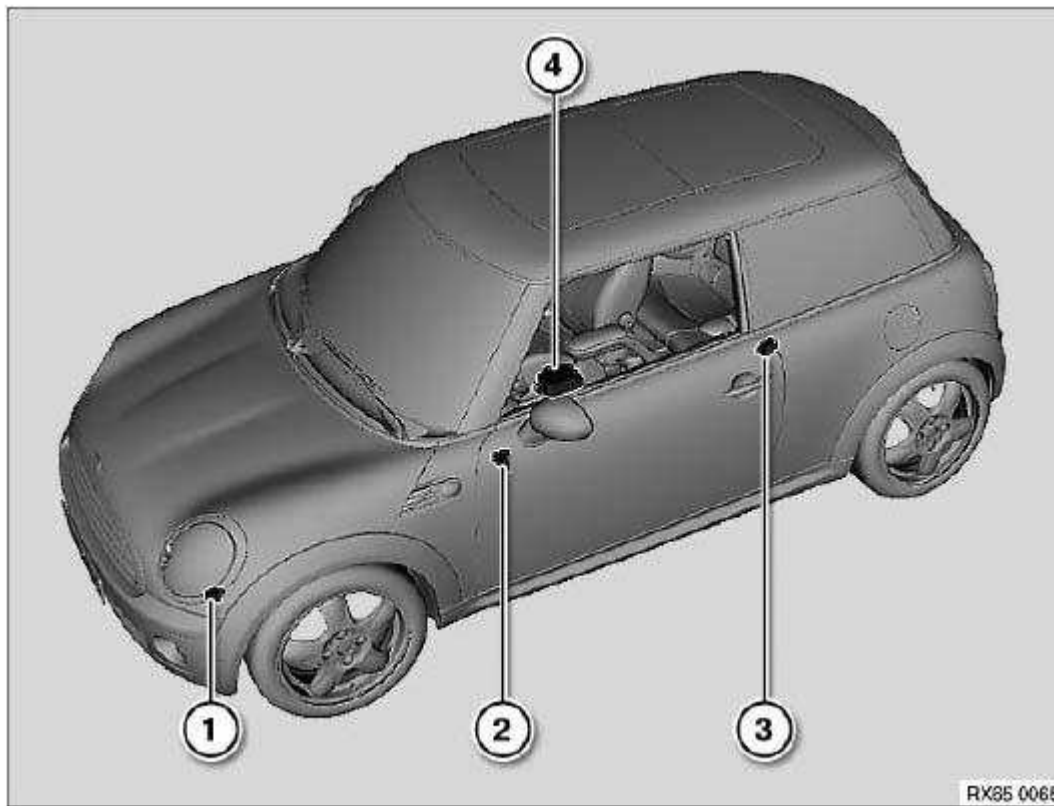


Fig. 27: Airbag System Sensors Overview
Courtesy of BMW OF NORTH AMERICA, INC.

1. Acceleration sensors, front (left/right, US version only)
2. Sensor, front door (left/right, US version only)
3. **Sensor, B-pillar** (left/right)
4. **Airbag control unit**(under center console)

65 77 016 REMOVING AND INSTALLING AIRBAG CONTROL UNIT

WARNING: Comply with Airbag Safety Regulations.

Incorrect handling can activate airbag and cause injury.

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove **Center Console**

Release nut (1) and disconnect ground cable (2).

Unscrew nuts (3).

For tightening torque refer to 65 77 1AZ in **65 77 AIRBAG CONTROL UNIT AND AIRBAG SENSORS** .

Raise center console bracket (4) in direction of arrow and carefully feed out airbag control unit.

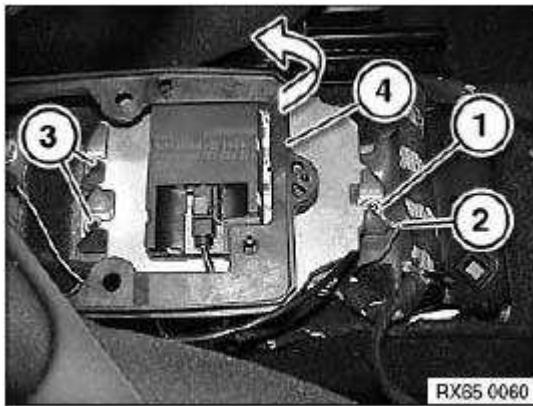


Fig. 28: Ground Cable, Nuts, Centre Console Bracket And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connections (1) and remove airbag control unit (2).

Installation:

Make sure cables are correctly laid.

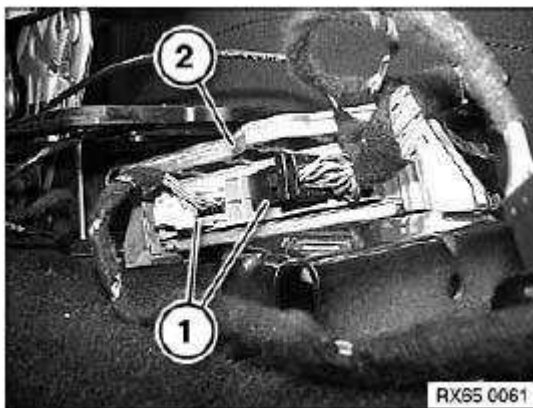


Fig. 29: Plug Connections And Airbag Control Unit
Courtesy of BMW OF NORTH AMERICA, INC.

65 77 720 REMOVING AND INSTALLING/REPLACING LEFT/RIGHT B-PILLAR SENSOR

WARNING: Comply with **Airbag Safety Regulations**.

Incorrect handling can activate airbag and cause injury.

Necessary preliminary tasks:

- Disconnect **Battery Negative Lead**
- Remove **Rear Side Trim Panel**

Release bolt (1).

Remove sensor (2) towards bottom and disconnect associated plug connection.

For tightening torque refer to 65 77 3AZ in **65 77 AIRBAG CONTROL UNIT AND AIRBAG SENSORS** .

Installation:

Retaining lug (3) must not be damaged.

Make sure sensor (2) is securely seated.

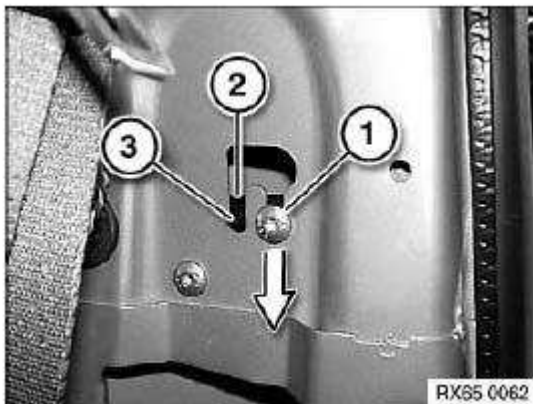


Fig. 30: Retaining Lug, Bolt, B-Pillar Sensor And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

65 77 740 REMOVING AND INSTALLING/REPLACING FRONT LEFT DOOR SENSOR (US VERSION ONLY)

WARNING: Comply with **Airbag Safety Regulations**.

Incorrect handling can activate airbag and cause injury.

Necessary preliminary tasks:

- Remove **Door Trim Panel Carrier**

Release screw.

For tightening torque refer to 65 77 2AZ in **65 77 AIRBAG CONTROL UNIT AND AIRBAG SENSORS** .

Feed out sensor and disconnect plug connection.

Installation:

Make sure sensor is securely seated in door panel.

Sealing ring must not be missing!

81 ON-BOARD COMPUTER

65 81 061 REMOVING AND INSTALLING/REPLACING OUTSIDE-TEMPERATURE SENSOR (WITH A/C SYSTEM)

Necessary preliminary tasks:

- Remove **Bumper Trim**

Disconnect plug connection and unclip outside-temperature sensor.

Installation:

Ensure correct cable routing

83 CAR COMMUNICATION COMPUTER

65 83 010 REMOVING AND INSTALLING/REPLACING CAR COMMUNICATION COMPUTER

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**
- Remove **Centre Console Trim**
- Remove **Complete Navigation Instrument Cluster**

Release screws (1).

IMPORTANT: Do not scratch center console trim, cover if necessary.

Pull back Car Communication Computer (2) slightly.

Disconnect associated plug connections.

Remove Car Communication Computer (2).

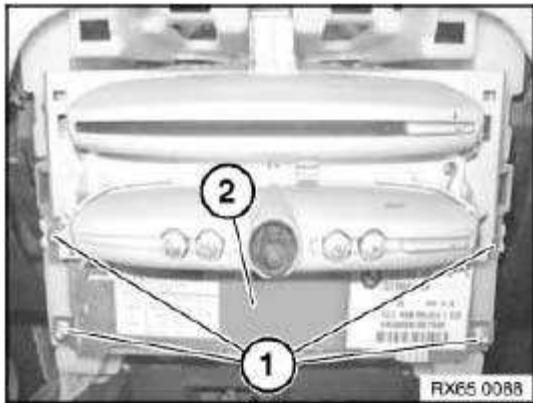


Fig. 31: Mounting Screws And Car Communication Computer
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

Carry out **coding/programming**.

65 83 550 REMOVING AND INSTALLING/REPLACING FAN FOR CAR COMMUNICATION COMPUTER

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove **Car Communication Computer**

Raise retaining hook (1) and turn fan for Car Communication Computer (2) in direction of arrow.

Remove fan for Car Communication Computer (2) from Car Communication Computer (3).

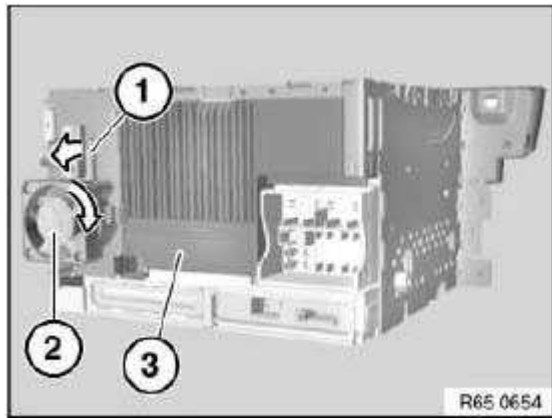


Fig. 32: Fan, Retaining Hook, Car Communication Computer And Removal Directions
Courtesy of BMW OF NORTH AMERICA, INC.

65 83 560 REMOVING AND INSTALLING/REPLACING FRONT TRIM FOR CAR COMMUNICATION COMPUTER

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove Car Communication Computer

Release screws (1).

Fold down front panel for Car Communication Computer (2) upwards and remove.

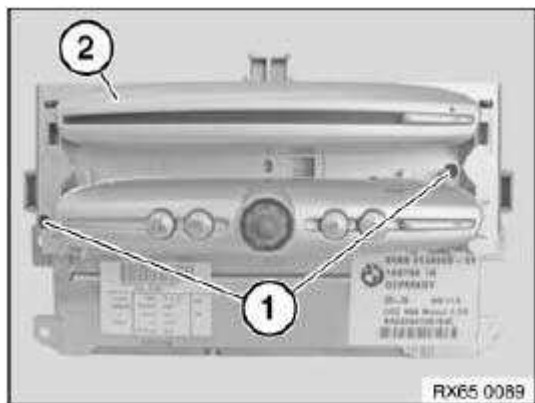


Fig. 33: Mounting Screws And Car Communication Computer
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: "LIF" stands for Low Insert Force.

Open catch of LIF plug (2) in direction of arrow and feed out LIF cable (1).

Remove front trim for Car Communication Computer (4) from Car Communication Computer (3).

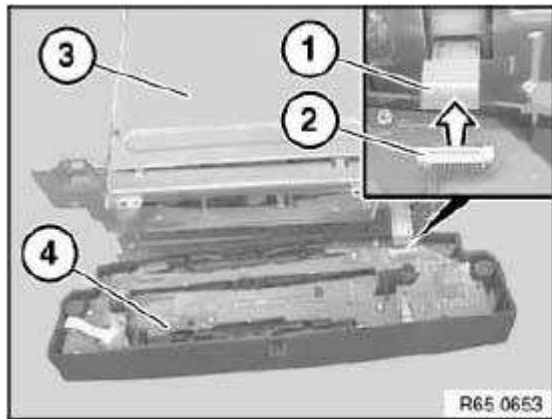


Fig. 34: LIF Cable, LIF Plug, Trim, Communication Computer And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

65 83 570 REMOVING AND INSTALLING/REPLACING CD DRIVE FOR CAR COMMUNICATION COMPUTER

Special tools required:

- 64 1 020

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove **Front Trim For Car Communication Computer**

If necessary, cut through warranty seal.

Raise cover (1) with special tool 64 1 020 all round and remove from Car Communication Computer (2).

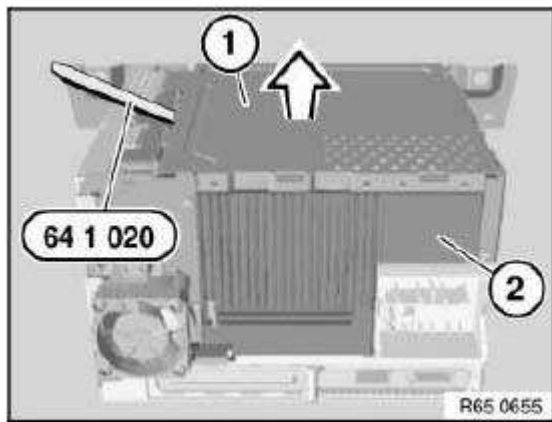


Fig. 35: Cover, Car Communication Computer, Special Tool (64 1 020) And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Feed CD drive for Car Communication Computer (2) in direction of arrow out of Car Communication Computer (3) and set down.

Installation:

Ensure correct routing of cables.

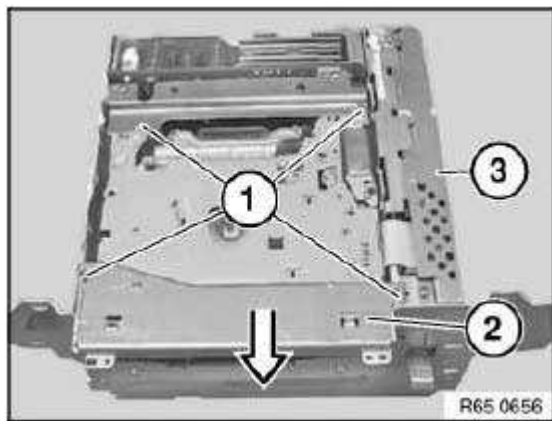


Fig. 36: Mounting Screw, CD Drive, Car Communication Computer And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Remove CD drive trim (2) in direction of arrow from CD drive for Car Communication Computer (3).

Installation:

Ensure correct routing of cables.

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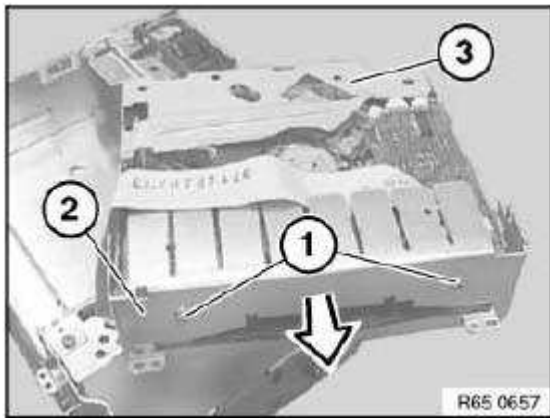


Fig. 37: Mounting Screws, CD Drive Trim, Car Communication Computer And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Cut through warranty seal (1) at marked point.

Release screw (2).

Lift side cover out of mounting (3) and carefully place to one side.

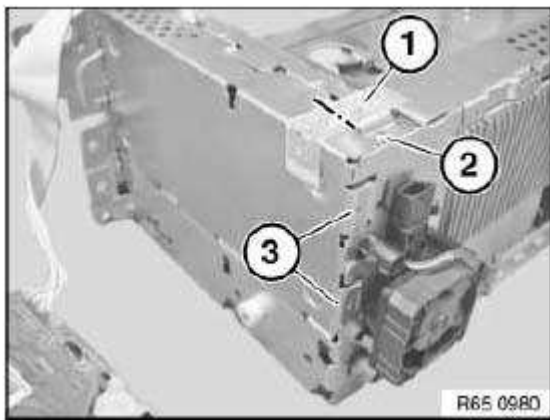


Fig. 38: Warranty Seal, Retaining Screw And Mounting
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1) and remove CD drive.

Installation:

Ensure correct routing of cables.

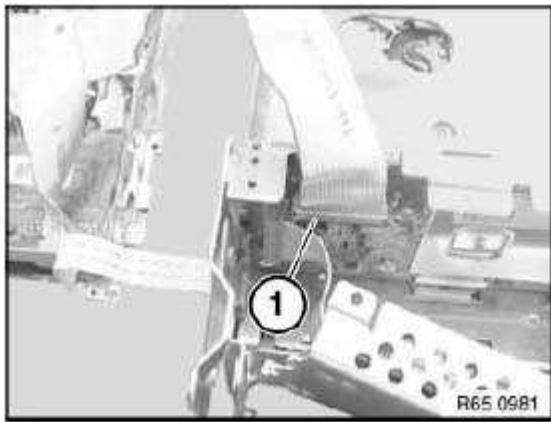


Fig. 39: CD Drive Plug Connection

Courtesy of BMW OF NORTH AMERICA, INC.

65 83 580 REMOVING AND INSTALLING/REPLACING DVD DRIVE FOR CAR COMMUNICATION COMPUTER

Special tools required:

- 00 9 450
- 12 7 192
- 64 1 020

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Risk of damage!

Place Car Communication Computer on special tool 12 7 192 (antistatic mat) and earth/ground.

Necessary preliminary tasks:

- Remove front trim for Car Communication Computer

If necessary, cut through warranty seal.

Raise cover (1) with special tool 64 1 020 all round and remove from Car Communication Computer (2).

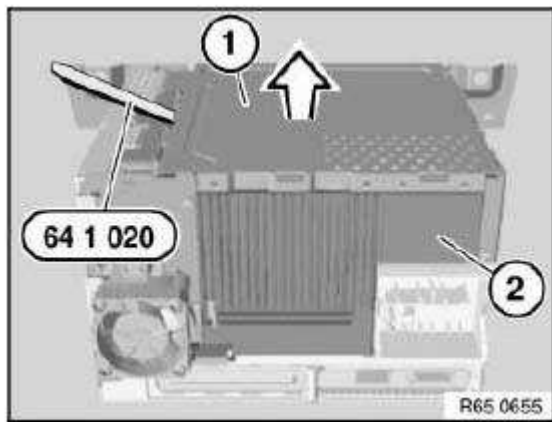


Fig. 40: Cover, Car Communication Computer, Special Tool (64 1 020) And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Feed out bridge (2).

Installation:

Use special tool 00 9 450 to tighten down screws.

Tightening torque for CD/DVD drive to Car Communication Computer = 0.4 Nm.

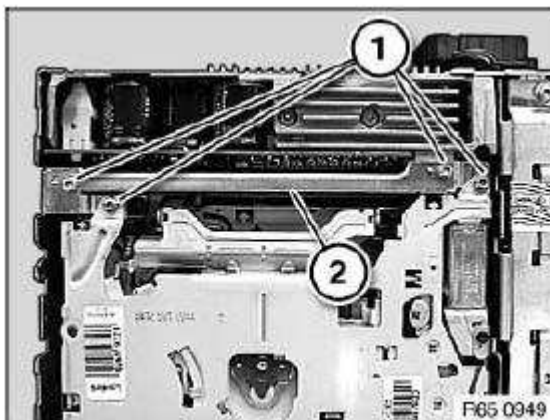


Fig. 41: Mounting Screws And Bridge
Courtesy of BMW OF NORTH AMERICA, INC.

Cut through stickers at marked points (1).

Release screws (2) and remove trim (3).

Installation:

Use special tool 00 9 450 to tighten down screws.

Tightening torque for CD/DVD drive to Car Communication Computer = 0.4 Nm.

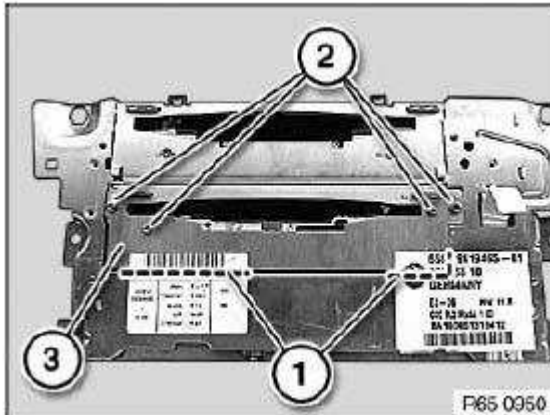


Fig. 42: Marked Points, Screws And Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) with magnetic screwdriver.

Installation:

Lug (2) of DVD drive must be above lug (3) of Car Communication Computer.

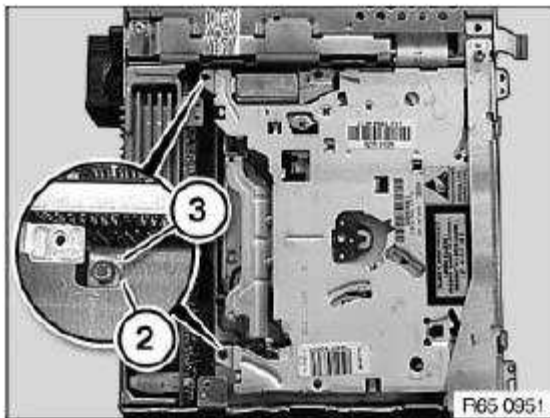


Fig. 43: DVD Drive Screws And Lugs
Courtesy of BMW OF NORTH AMERICA, INC.

Turn Car Communication Computer through 180° and carefully feed out DVD drive.

Carefully disconnect plug connections (1, 2).

Remove DVD drive (3).

Installation:

Ensure correct cable routing.

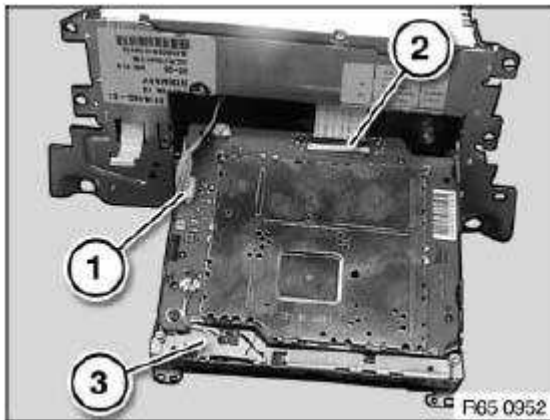


Fig. 44: Plug Connections And DVD Drive
Courtesy of BMW OF NORTH AMERICA, INC.

After installation:

On cars manufactured before March 2006 it is essential after replacing the DVD drive to carry out a measures plan or a software update as per SSS/Progman/CIP.

65 83 590 REMOVING AND INSTALLING/REPLACING GYRO SENSOR DRIVE FOR CAR COMMUNICATION COMPUTER

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove Car Communication Computer

If necessary, cut through warranty seal.

Release screws (1).

Remove floor pan (2) towards bottom and set down.

IMPORTANT: Contact spring strip (3) on floor pan (2) must not be bent: otherwise risk of short-circuiting!

When reinstalling floor pan (2), make sure individual springs of contact spring strip (3) are correctly seated.

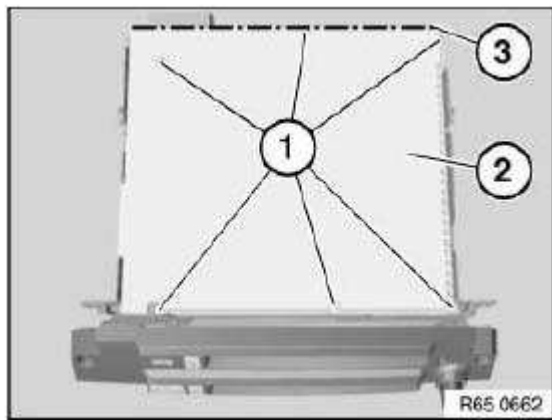


Fig. 45: Floor Pam, Screws And Contact Spring Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

Detach gyro sensor for Car Communication Computer (2) in direction of arrow from plug-in contact (3).

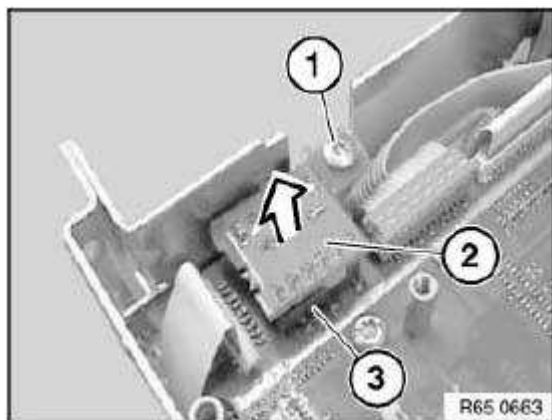


Fig. 46: Car Communication Computer, Screw, Plug-In Contact And Removal Direction
Courtesy of BMW OF NORTH AMERICA, INC.

65 83 600 REPLACING HIP MODULE FOR CAR COMMUNICATION COMPUTER

IMPORTANT: Read and comply with Notes On Protection Against Electrostatic Damage (ESD Protection).

Necessary preliminary tasks:

- Remove Car Communication Computer

If necessary, cut through warranty seal (1).

Release screw (2).

Lift HIP module out of mounting (3) and carefully place to one side.

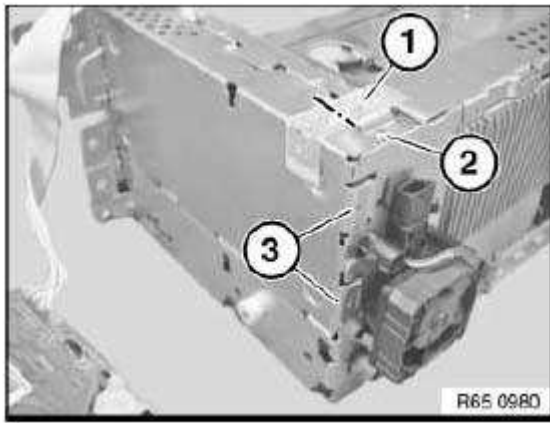


Fig. 47: Warranty Seal, Screw And Mounting
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1) in direction of arrow and remove HIP module (2).

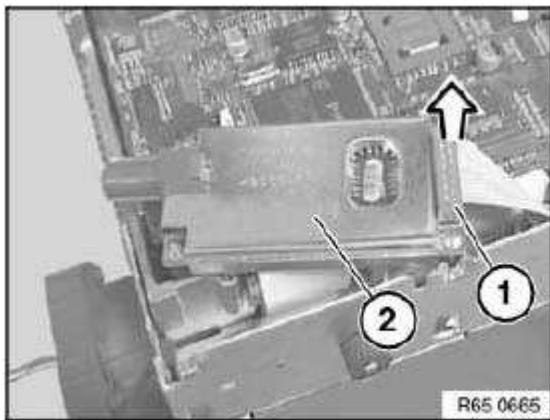


Fig. 48: Removal Direction, Plug Connection And HIP Module
Courtesy of BMW OF NORTH AMERICA, INC.

After installation:

- Cars with out-of-date software status at time of repair:

After replacing the HIP module, **program** the Car Communication Computer. Then take the car for an initialization drive.

- Cars with current software status at time of repair:

After replacing the HIP module, take the car for an initialization drive.

Initialization drive:

2008 MINI Cooper

2007 ACCESSORIES & EQUIPMENT Audio, Navigation and Anti-Theft - Repair Instructions - Cooper

Drive for 15-20 minutes at 50 km/h and with good GPS reception until correct vehicle position is achieved in the navigation display.

NOTE: During this time, the position pointer of the navigation system can be motionless or move across country.