

ACCESSORIES & EQUIPMENT

Seats - Operating Fluids

1.0 SEAT LEATHER CARE

"Karneol" leather care cleans the leather upholstery of mild stains or dirt. It also provides conditioners to prevent drying out. Not suitable for suede.

BMW Part No. 81 22 9 400 901.

2.0 PREMIUM LEATHER CARE KIT

BMW Part No. 81 11 024 455.

ACCESSORIES & EQUIPMENT

Seats - Repair Instructions - X6

FRONT SEATS

65 77 598 REPLACING SENSOR MAT FOR DRIVER'S SEAT OCCUPANCY DETECTOR

Operation is described in: Replacing sensor mat for passenger seat occupancy detector , see 65 77 605 Replacing sensor mat for passenger seat occupancy detector.

65 77 605 REPLACING SENSOR MAT FOR PASSENGER SEAT OCCUPANCY DETECTOR

WARNING: US/CDN front passenger seat (with OC3 mat) only:

If seat cover is defective, seat cover, padding and OC3 mat must be replaced together.

The same applies to a faulty OC3 mat or padding. Both parts can only be replaced together with the seat cover.

New seat cover is supplied with padding, OC3 mat and if necessary seat heating.

After fitting, the OC3 mat must be enabled with the diagnosis system.
Individual parts not available.

Necessary preliminary tasks:

- Remove seat cover for passenger seat , see 52 13 400 Replacing seat cover for left or right front seat (normal/semi-electric) or 52 14 400 Replacing cover for left or right front seat or 52 16 400 Removing and installing/replacing seat cover for left or right front seat (sport/electric) or 52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort).

Pull sensor mat (1) off passenger seat padding (2) and feed out plug housing (3).

Installation:

- To avoid malfunctions, make sure sensor mat (1) is cleanly laid:
 - Lay plug housing (3) in designated recess
 - Secure sensor mat (1) to bonding surface
 - Lay sensor mat (1) straight and without kinks

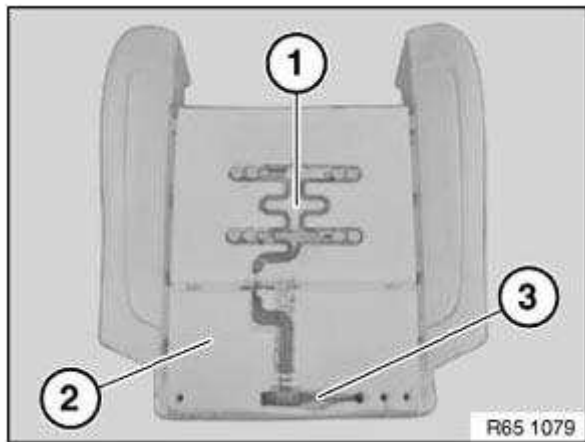


Fig. 1: Identifying Sensor Mat, Plug Housing And Passenger Seat Padding
 Courtesy of BMW OF NORTH AMERICA, INC.

FRONT SEAT, NORMAL, MANUAL

52 13 ... REMOVING AND INSTALLING/REPLACING ALL TRIMS ON LEFT OR RIGHT SEAT RAILS

Operation is identical to:

Replacing **all trims on left or right seat rail** (comfort), see 52 17 ... Removing and installing/replacing all trims on left or right seat rails.

52 13 ... REMOVING AND INSTALLING/REPLACING GUIDE FOR FRONT LEFT OR RIGHT HEAD RESTRAINT

Necessary preliminary tasks:

- Remove **head restraint** , see 52 14 393 Removing and installing/replacing front left or right crash-active head restraint.
- Remove **rear panel** on front seat, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Press catches together and feed guide upwards out of cover and padding.

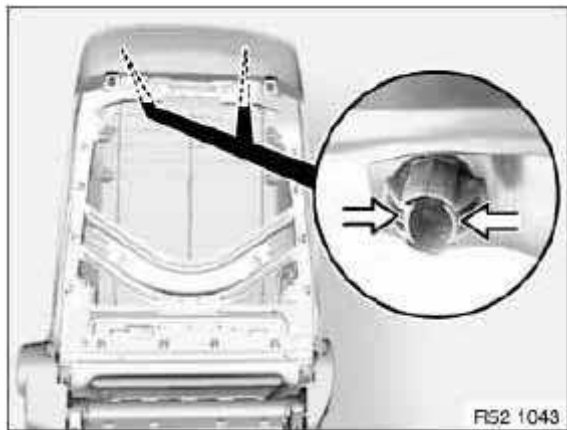


Fig. 2: Pressing Guide Catches

Courtesy of BMW OF NORTH AMERICA, INC.

52 13 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing left or right **front seat (normal/electric)** , see **52 14 000 Removing and installing left or right front seat.**

52 13 010 REMOVING AND INSTALLING/REPLACING BOTH SEAT RAILS ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing **both seat rails on left or right front seat (normal/electric)** , see **52 14 010 Removing and installing/replacing both seat rails on left or right front seat (normal/electric).**

52 13 015 REMOVING AND INSTALLING/REPLACING ACTUATING UNIT ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Necessary preliminary tasks:

- Remove **outer cover** on front seat, see **52 13 040 Removing and installing/replacing outer cover on left or right front seat (normal/semi-electric).**

Pull lever and release screw (1).

NOTE: **Protect seat rails (mechanism) by covering against chips/swarf.**

Drill out rivets (2) with 4.2 mm dia. drill bit.

Remove actuating unit.

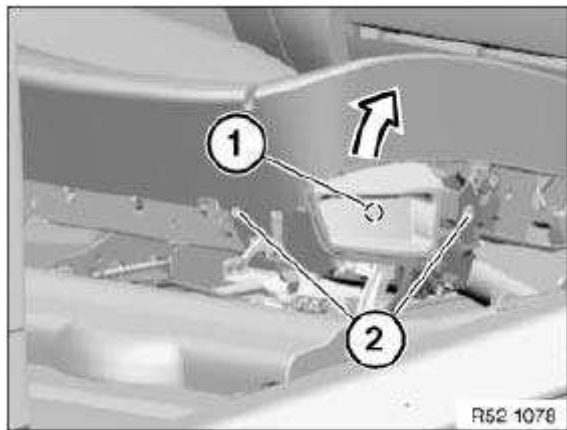


Fig. 3: Pulling Lever

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip Bowden cable sleeve (1).

Feed Bowden cable nipple (2) out of fixture (3).

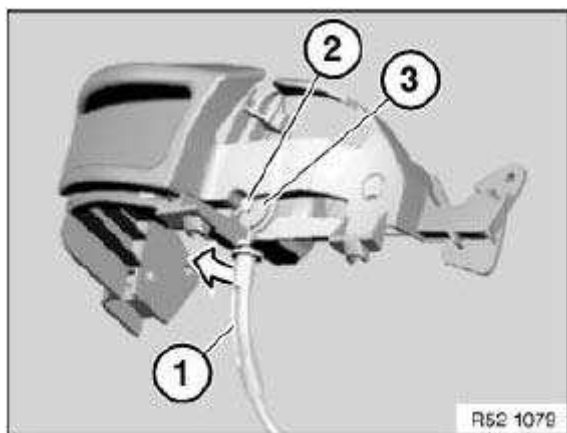


Fig. 4: Unclipping Bowden Cable Sleeve

Courtesy of BMW OF NORTH AMERICA, INC.

52 13 020 REMOVING AND INSTALLING/REPLACING SEAT FRAME ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing seat frame on left or right front seat (normal/electric) , see **52 14 020 Removing and installing/replacing seat frame on left or right front seat (normal/electric).**

52 13 030 REMOVING AND INSTALLING/REPLACING BACKREST FRAME ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

This operation is identical to:

Replacing **backrest frame on front seat (comfort)**, see 52 17 030 Removing and installing/replacing backrest frame on left or right front seat (comfort).

52 13 040 REMOVING AND INSTALLING/REPLACING OUTER COVER ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Pull lever forward to remove:

- If necessary, lever out lower locking point (1) from rear with a screwdriver.

Release screw (2).

If necessary, move seat fully forwards and upwards.

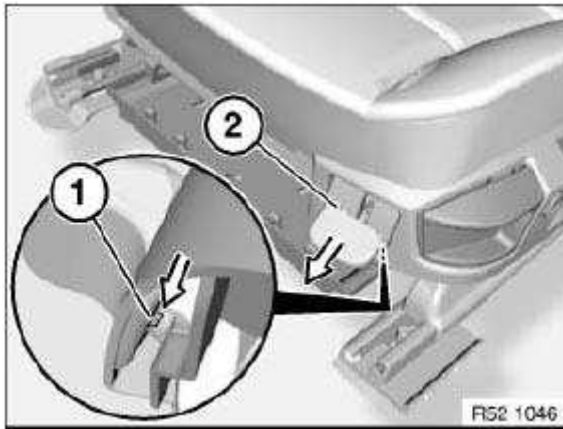


Fig. 5: Releasing Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim:

1. Unclip at top edge
2. Unclip at rear towards top side
3. Pull on belt opening
4. Unlock lugs
5. Carefully remove trim towards front

Unfasten plug connection.

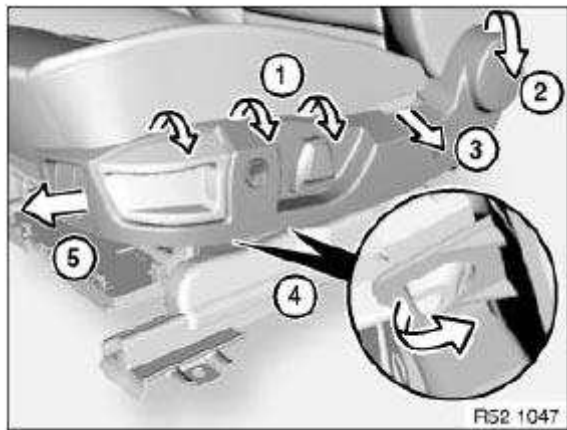


Fig. 6: Removing Trim

Courtesy of BMW OF NORTH AMERICA, INC.

Replacement only:

Remove switch , see **61 31 203 REPLACING SWITCH COMBINATION FOR SEAT ADJUSTMENT** .

Installation:

Retaining clips and tabs must not be damaged.

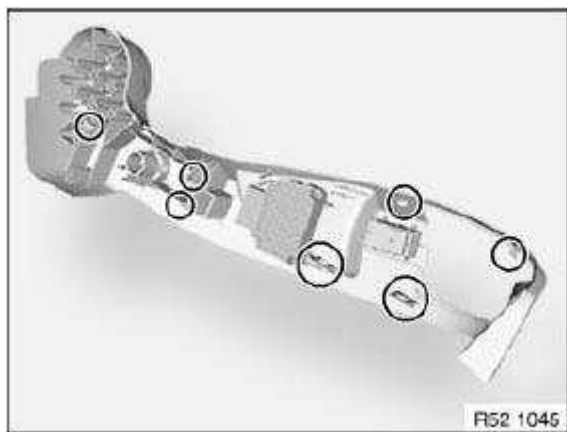


Fig. 7: Identifying Clips And Tabs

Courtesy of BMW OF NORTH AMERICA, INC.

52 13 041 REMOVING AND INSTALLING INNER COVER ON LEFT OR RIGHT FRONT SEAT (NORMAL/SEMIELECTRIC)

Operation is identical to:

Replacing inner cover on left or right front seat (normal/electric), see **52 14 041 Removing and installing inner cover on left or right front seat.**

52 13 050 REPLACING LEFT OR RIGHT LUMBAR CUSHION ON FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing **lumbar cushion on front left or right seat** (normal/electric), see **52 14 050 Replacing lumbar cushion on front left or right seat.**

52 13 060 REMOVING AND INSTALLING/REPLACING VALVE HOUSING FOR LEFT OR RIGHT FRONT LUMBAR SUPPORT (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing **valve housing for left or right front lumbar support** (normal/electric), see **52 14 060 Removing and installing/replacing valve housing for left or right front lumbar support (normal/electric).**

52 13 198 REMOVING AND INSTALLING/REPLACING REAR PANEL ON LEFT OR RIGHT FRONT SEAT BACKREST (NORMAL/SEMI-ELECTRIC)

Operation is identical to:

Replacing **rear panel on left or right front seat backrest** (normal/electric), see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**

52 13 385 REPLACING GAS CARTRIDGE (PYROACTIVATOR) FOR CRASH-ACTIVE HEAD RESTRAINT ON FRONT SEAT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners. See **72 SAFETY PRECAUTIONS AND GENERAL INFORMATION** .

Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see **61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD** .
- Remove **crash-active head restraint** , see **52 14 393 Removing and installing/replacing front left or right crash-active head restraint.**

IMPORTANT: The pyrotechnical device may be replaced up to 5 times.

Triggering frequency is denoted on the sticker on the head restraint carrier.
Stickers are available as spare parts.

Starting situation:

Head restraint is in the crash position after being triggered.

NOTE: Pyroactivator can only be removed in the triggered state.
The complete crash-active head restraint must be replaced if the event of a head restraint fault signal and an untriggered pyroactivator.



Fig. 8: Identifying Head Restraint

Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover:

Raise cover (1) and pull towards rear.

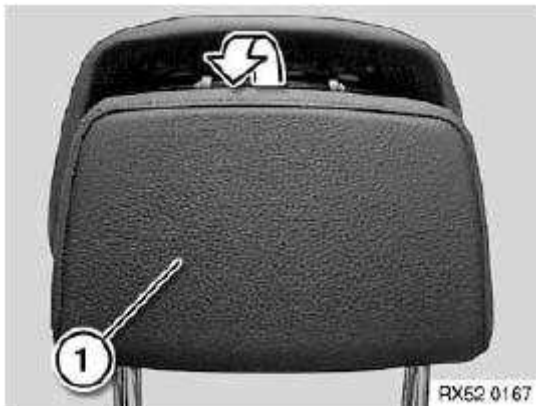


Fig. 9: Removing Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyrotechnical device:

Press together retainer (1) for pyrotechnical device at lugs.

Feed out pyrotechnical device.

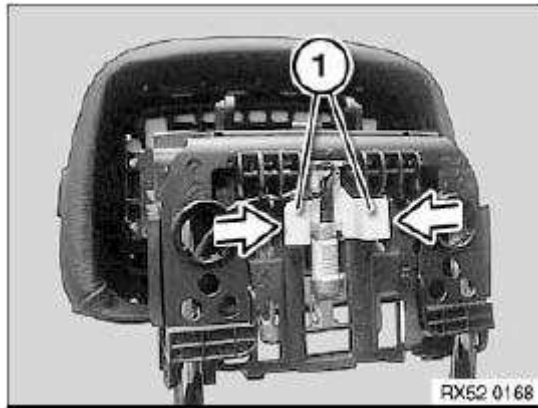


Fig. 10: Pressing Pyrotechnical Device Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyroactivator:

Pull pyroactivator (2) out of mounting (1) for pyrotechnical device.

Unlock **plug connection** (3) and disconnect.

IMPORTANT: Dispose of plastic element and pyroactivator.

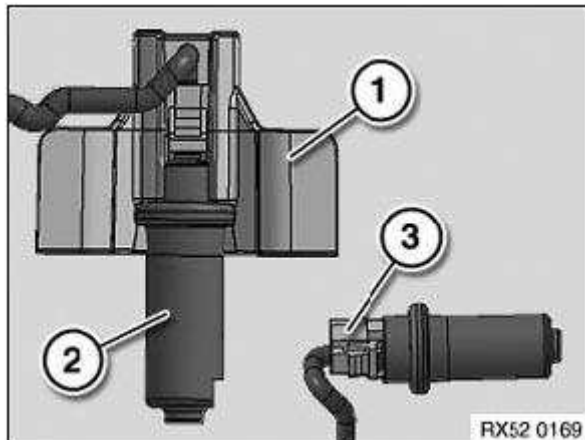


Fig. 11: Identifying Pyroactivator, Mounting And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Procedure for installing pyrotechnical device:

Bringing head restraint together - version without button (MFS):

Pull spring catches apart and push head restraint together.

Maintain position.

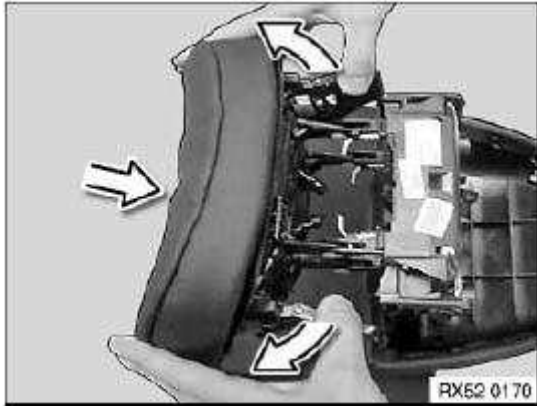


Fig. 12: Pushing Head Restraint

Courtesy of BMW OF NORTH AMERICA, INC.

Bringing head restraint together - version with button (Basic):

Press button (1) and push head restraint together.

Maintain position.

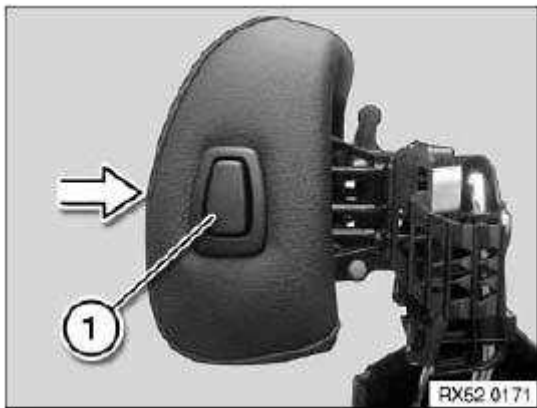


Fig. 13: Pressing Button

Courtesy of BMW OF NORTH AMERICA, INC.

Locking release plate:

Hold pushed-together head restraint in position and push release plate (1) upwards up to stop.

Release plate (1) must audibly snap into place.

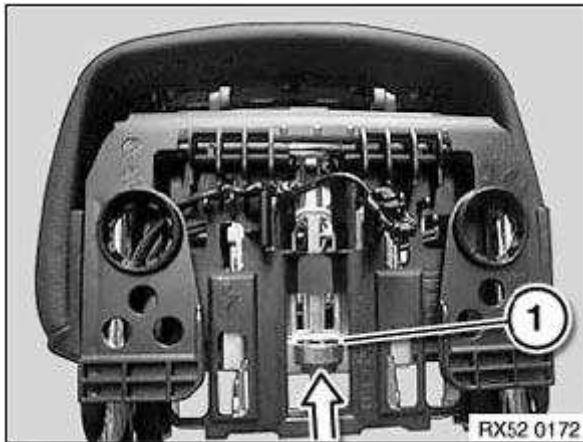


Fig. 14: Pushing Release Plate
 Courtesy of BMW OF NORTH AMERICA, INC.

Checking head restraint lock:

Check end position of release plate (1).

All four springs must be engaged (snapped into place).

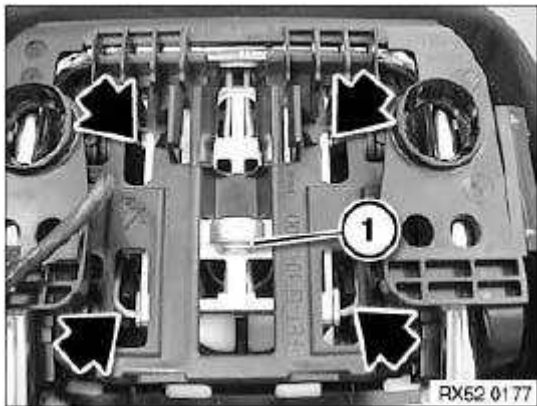


Fig. 15: Identifying Release Plate
 Courtesy of BMW OF NORTH AMERICA, INC.

Replacing pyrotechnical device:

Connect plug (1) to new pyroactivator (2) and **lock** .

Clip pyroactivator (2) into new mounting (3).

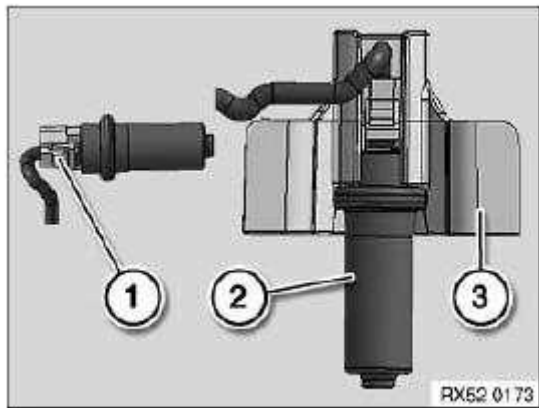


Fig. 16: Identifying Plug, Pyroactivator And Mounting
 Courtesy of BMW OF NORTH AMERICA, INC.

Installing pyrotechnical device:

Press together retainer for pyrotechnical device at lugs.

Insert retainer for pyrotechnical device into release plate and tilt in upward direction.

Retainer for pyrotechnical device must audibly snap into place.

NOTE: Check seating of retaining lugs in retainer.

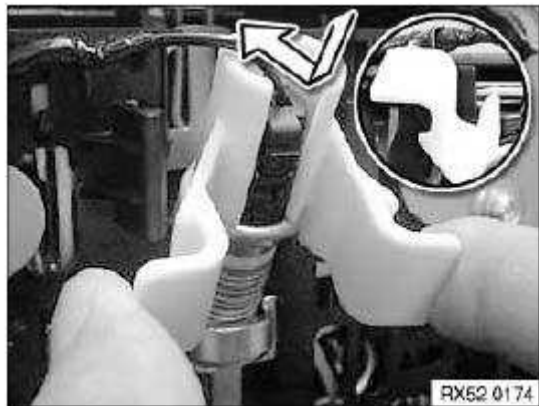


Fig. 17: Pressing Pyrotechnical Device Retainer
 Courtesy of BMW OF NORTH AMERICA, INC.

Laying wiring harness:

Secure wiring harness in carrier section with strain relief.

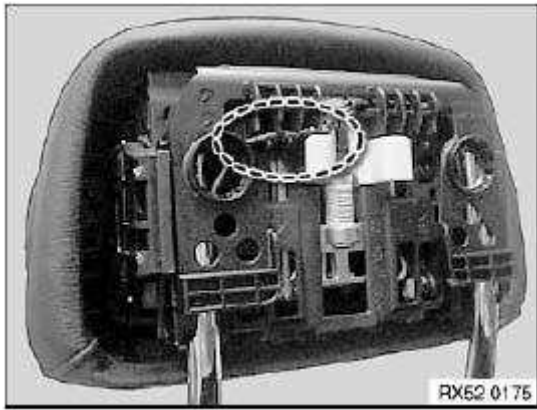


Fig. 18: Identifying Wiring Harness In Carrier Section
 Courtesy of BMW OF NORTH AMERICA, INC.

Mounting cover:

Clip cover onto carrier section.

Cover must audibly snap into place.



Fig. 19: Clipping Cover Onto Carrier Section
 Courtesy of BMW OF NORTH AMERICA, INC.

52 13 400 REPLACING SEAT COVER FOR LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove front seat , see 52 14 000 Removing and installing left or right front seat .

- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.
- Remove **inner cover** on front seat, see 52 14 041 Removing and installing inner cover on left or right front seat.

US/CDN front passenger seat (OC3 mat) only:

If seat cover is defective, seat cover, padding and OC3 mat must be replaced together.

The same applies to a defective OC3 mat or padding; both parts can only be replaced together with the seat cover.

New seat cover is supplied with padding, OC3 mat and if necessary seat heating.

Individual parts not available.

After fitting seat cover, enable OC3 mat with BMW programming system.

Enabling seat occupancy detector (OC3 mat):

- Connect **BMW programming system**
- Code airbag control unit
- Clear fault memory if necessary

Unhook seat cover (2) at all retaining points.

Lever out left and right clips (1).

Installation:

If necessary, replace faulty clips (1).

Remove seat cover (2) with support.

If necessary, disconnect all plug connections.

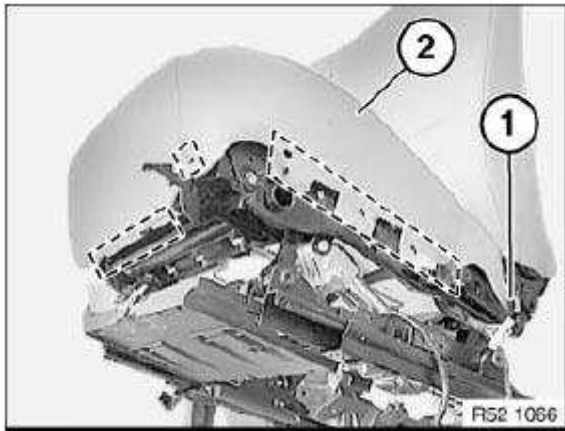


Fig. 20: Identifying Seat Cover And Clips
 Courtesy of BMW OF NORTH AMERICA, INC.

Version with OC3 mat:

- OC3 mat must not be kinked under any circumstances.

Detach all retainers in side area from longitudinal wires (1).

Pull trim wires (1) forward out of seat cover.

Carefully fold back seat cover and release retainers from cross-wires (2).

Remove seat cover from padding.

IMPORTANT: Remove all remnants of clips from seat cover and padding.

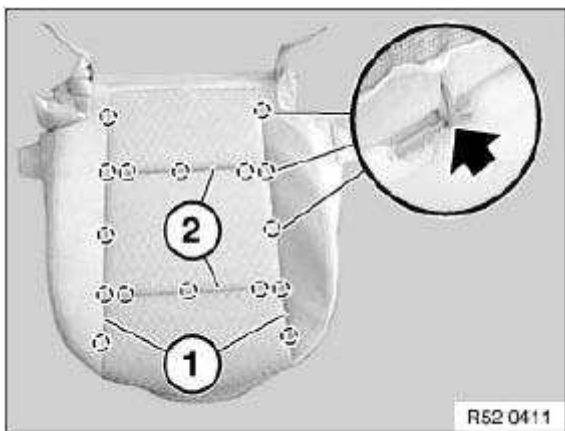


Fig. 21: Detaching Retainers In Side Area From Longitudinal Wires
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainer (2) closed with pliers 52 0 050 .

1. Padding
2. Clips
3. Trim wire in seat cover
4. Trim wire in padding
5. Seat cover

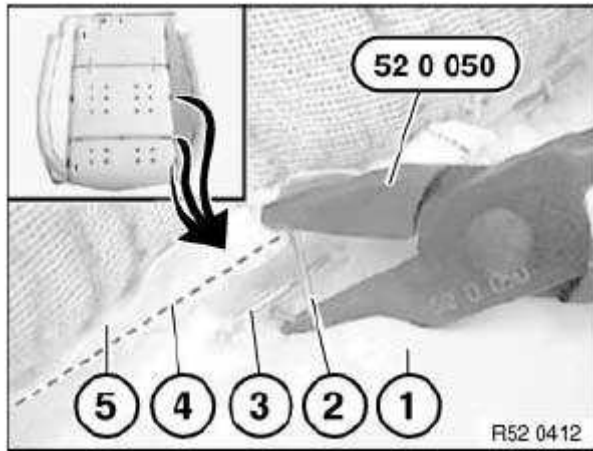


Fig. 22: Bending Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim threads (1) from seat cover (2).

(3) If necessary, cable for seat heating

Installation:

Slide trim threads (1) into new seat cover (2). If necessary, cut mounting for trim threads.

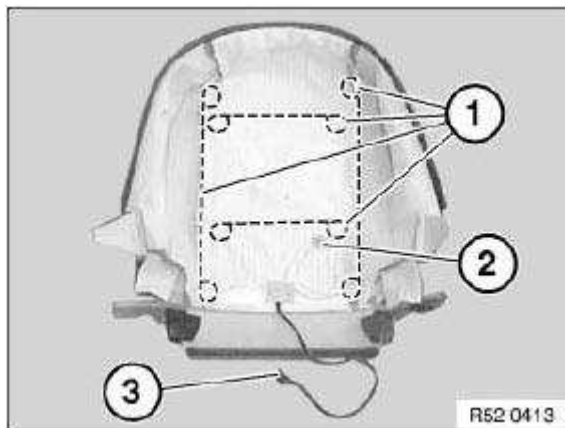


Fig. 23: Identifying Trim Threads And Seat Cover

Courtesy of BMW OF NORTH AMERICA, INC.

52 13 405 REPLACING BACKREST COVER FOR LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Special tools required:

- 00 9 317 , see 00 9 317 TRIM PANEL WEDGE .
- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest

Detach plug connection (1) by twisting from backrest frame.

Disconnect plug-in connection.

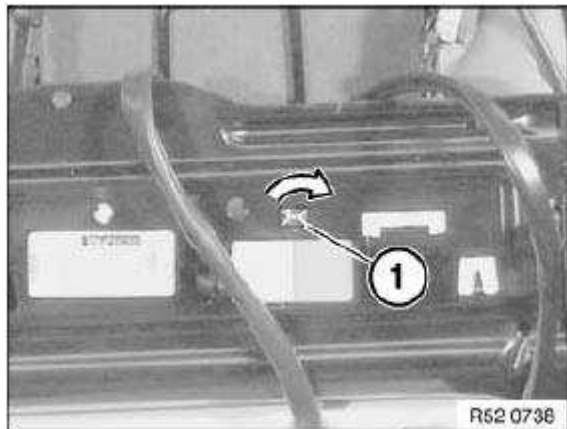


Fig. 24: Detaching Plug Connection

Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers (1) on cover.

Remove cover.

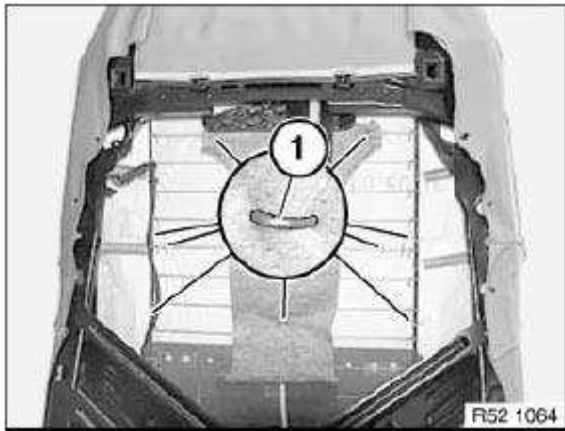


Fig. 25: Identifying Cover Retainers
 Courtesy of BMW OF NORTH AMERICA, INC.

For A/C optional extra only:

Detach cable tie (1) an wiring harness for fan.

Disconnect plug connections (2).

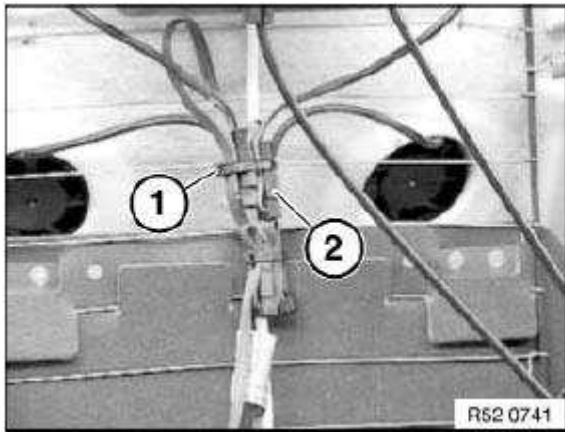


Fig. 26: Identifying Cable Tie And Plug Connections
 Courtesy of BMW OF NORTH AMERICA, INC.

Unhook backrest cover at retaining points in area (1).

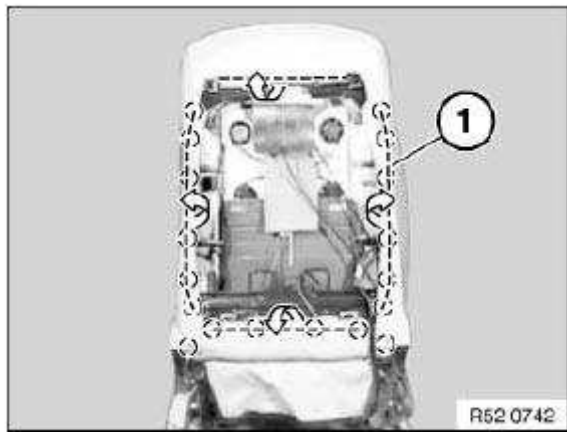


Fig. 27: Unhooking Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook backrest cover (1) at bottom and sides towards front.

Pull off backrest cover (1) with padding towards top from backrest frame (2).

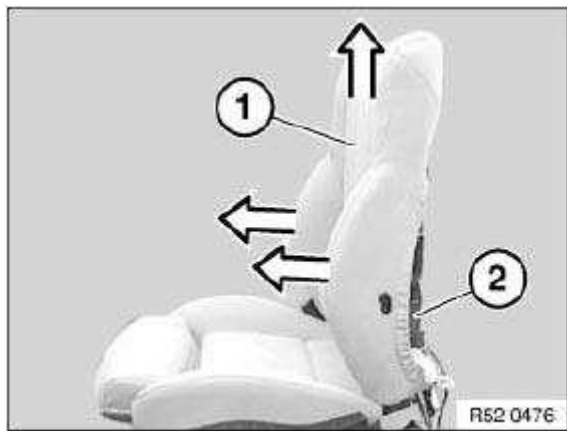


Fig. 28: Pulling Off Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers.

Remove backrest cover (1) from padding.

Remove all remnants of clips from backrest cover (1) and padding.

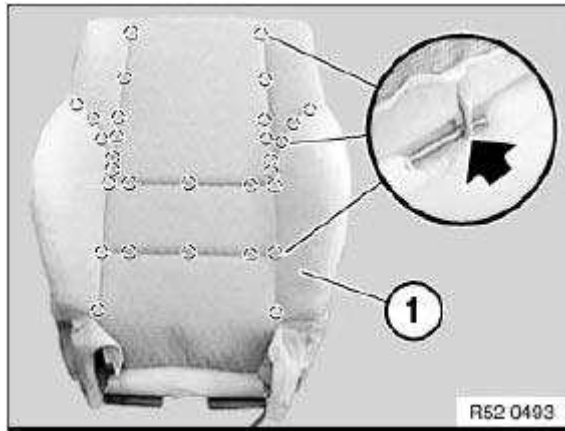


Fig. 29: Removing Clips From Backrest Cover
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainer (2) closed with pliers 52 0 050 .

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in backrest cover
5. Backrest cover

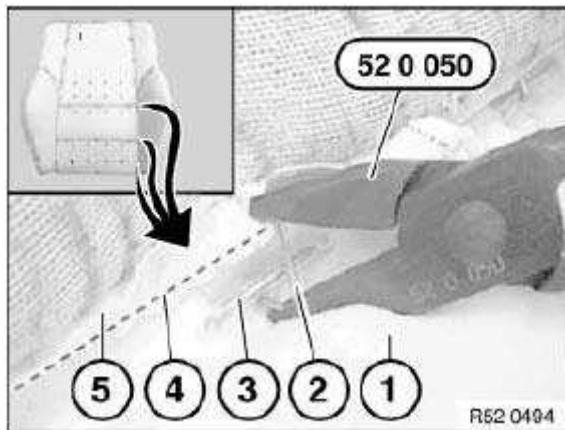


Fig. 30: Bending Retainer
 Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim threads (1) from backrest cover.

- (2) Seat heater cable

Installation:

Push trim threads (1) into new backrest cover.

If necessary, cut into new component.

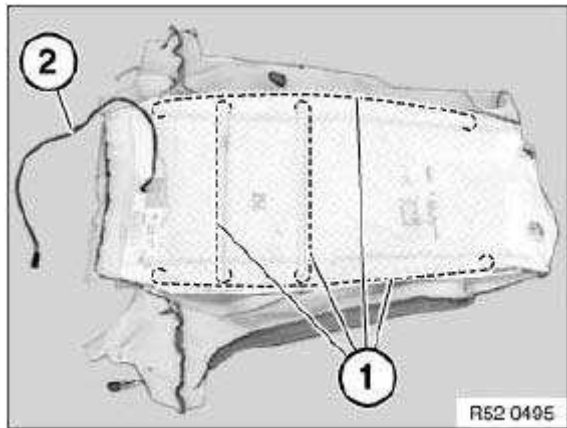


Fig. 31: Identifying Trim Threads

Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking strip of head restraint guide with special tool **00 9 317** .

Installation:

Mount straight front face of head restraint guide towards front.

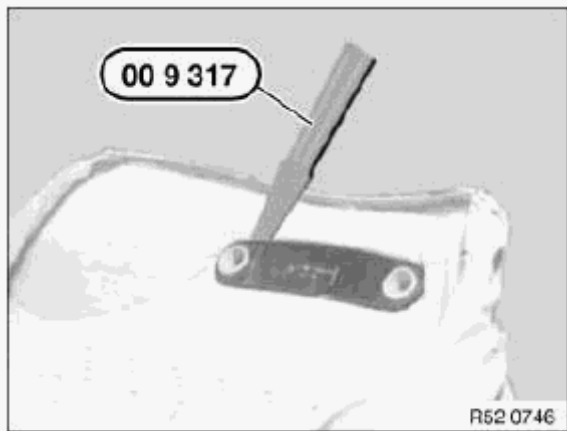


Fig. 32: Levering Out Locking Strip Of Head Restraint Guide Using Special Tool (00 9 317)

Courtesy of BMW OF NORTH AMERICA, INC.

52 13 415 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

The operation for removing the padding with/without OC3 mat is described in:

- Replacing seat cover for front seat , see 52 13 400 Replacing seat cover for left or right front seat (normal/semi-electric) or 52 14 400 Replacing cover for left or right front seat or 52 16 400 Removing and installing/replacing seat cover for left or right front seat (sport/electric) or 52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort).

52 13 420 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT BACKREST (NORMAL/SEMI-ELECTRIC)

Operation is described in:

Remove **backrest cover** for front seat, see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).

52 13 420 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT BACKREST (NORMAL/SEMI-ELECTRIC)

Operation is described in:

Remove **backrest cover** for front seat, see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).

52 14 393 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT CRASH- ACTIVE HEAD RESTRAINT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **rear panel** , see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Unfasten plug connection (1) and disconnect.

Pull out split pin (2).

If necessary, cut cable ties.

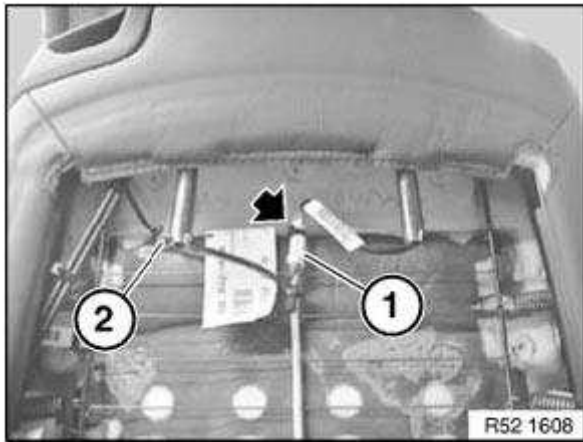


Fig. 33: Identifying Plug Connection And Split Pin
Courtesy of BMW OF NORTH AMERICA, INC.

Lift out head restraint.

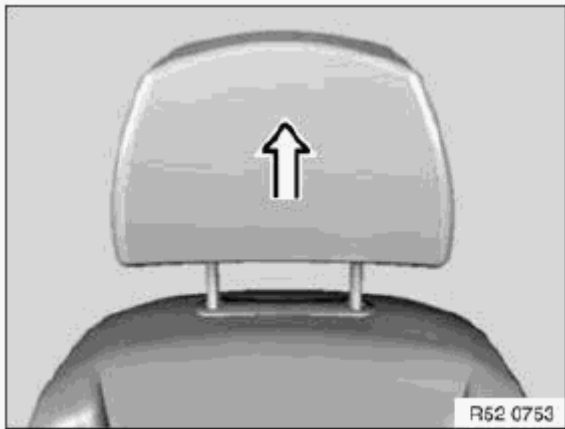


Fig. 34: Lifting Out Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT SEAT, NORMAL, ELECTRICAL

52 13 ... REMOVING AND INSTALLING/REPLACING ALL TRIMS ON LEFT OR RIGHT SEAT RAILS

Operation is identical to:

Replacing **all trims on left or right seat rail** (comfort, see **52 17 ... Removing and installing/replacing all trims on left or right seat rails.**

52 13 385 REPLACING GAS CARTRIDGE (PYROACTIVATOR) FOR CRASH-ACTIVE HEAD RESTRAINT ON FRONT SEAT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **crash-active head restraint** , see 52 14 393 Removing and installing/replacing front left or right crash-active head restraint.

IMPORTANT: The pyrotechnical device may be replaced up to 5 times.
Triggering frequency is denoted on the sticker on the head restraint carrier.
Stickers are available as spare parts.

Starting situation:

Head restraint is in the crash position after being triggered.

NOTE: Pyroactivator can only be removed in the triggered state.
The complete crash-active head restraint must be replaced if the event of a head restraint fault signal and an untriggered pyroactivator.



Fig. 35: Identifying Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover:

Raise cover (1) and pull towards rear.

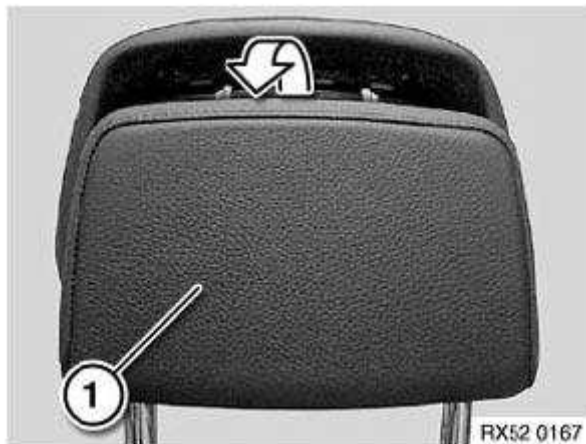


Fig. 36: Removing Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyrotechnical device:

Press together retainer (1) for pyrotechnical device at lugs.

Feed out pyrotechnical device.

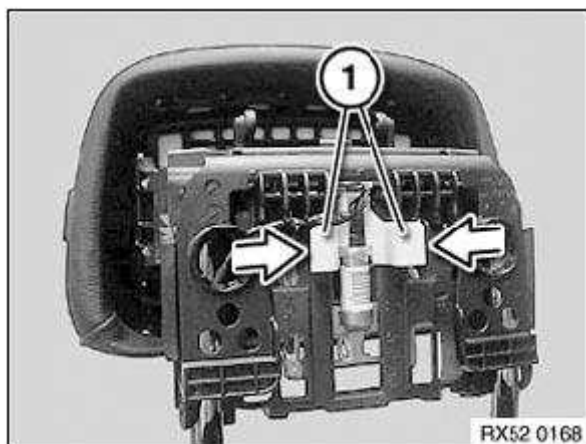


Fig. 37: Pressing Pyrotechnical Device Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyroactivator:

Pull pyroactivator (2) out of mounting (1) for pyrotechnical device.

Unlock **plug connection** (3) and disconnect.

IMPORTANT: Dispose of plastic element and pyroactivator.

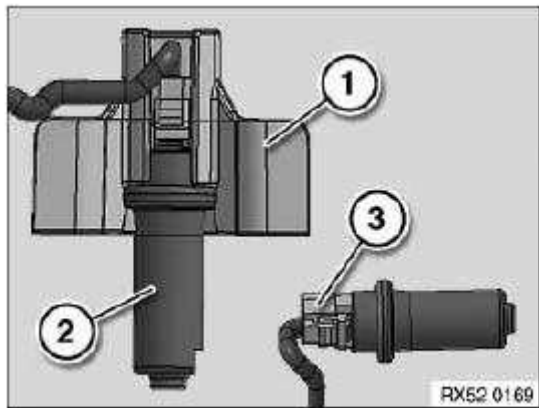


Fig. 38: Identifying Pyroactivator, Mounting And Plug Connection
 Courtesy of BMW OF NORTH AMERICA, INC.

Procedure for installing pyrotechnical device:

Bringing head restraint together - version without button (MFS):

Pull spring catches apart and push head restraint together.

Maintain position.

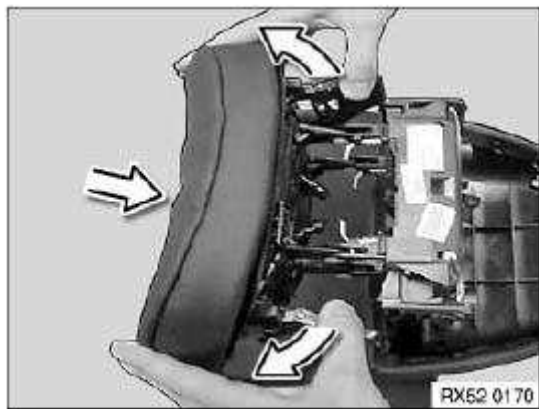


Fig. 39: Pushing Head Restraint
 Courtesy of BMW OF NORTH AMERICA, INC.

Bringing head restraint together - version with button (Basic):

Press button (1) and push head restraint together.

Maintain position.

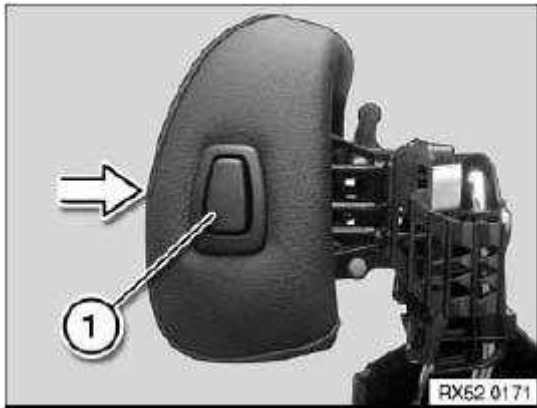


Fig. 40: Pressing Button

Courtesy of BMW OF NORTH AMERICA, INC.

Locking release plate:

Hold pushed-together head restraint in position and push release plate (1) upwards up to stop.

Release plate (1) must audibly snap into place.

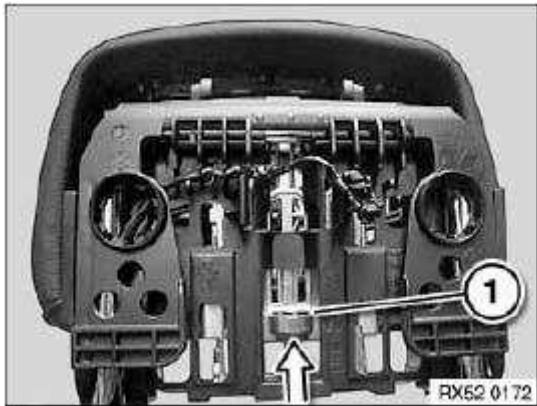


Fig. 41: Pushing Release Plate

Courtesy of BMW OF NORTH AMERICA, INC.

Checking head restraint lock:

Check end position of release plate (1).

All four springs must be engaged (snapped into place).

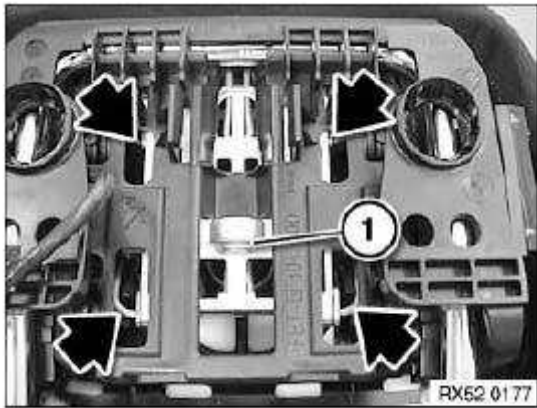


Fig. 42: Identifying Release Plate
Courtesy of BMW OF NORTH AMERICA, INC.

Replacing pyrotechnical device:

Connect plug (1) to new pyroactivator (2) and **lock** .

Clip pyroactivator (2) into new mounting (3).

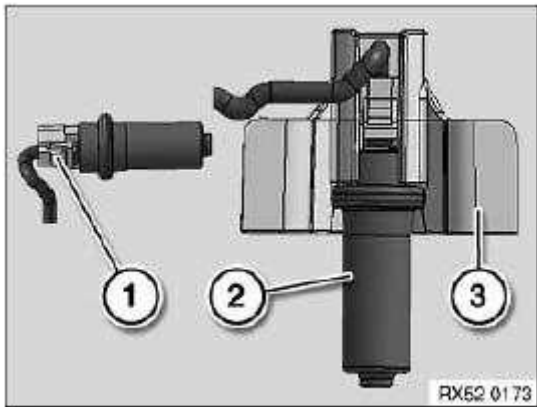


Fig. 43: Identifying Plug, Pyroactivator And Mounting
Courtesy of BMW OF NORTH AMERICA, INC.

Installing pyrotechnical device:

Press together retainer for pyrotechnical device at lugs.

Insert retainer for pyrotechnical device into release plate and tilt in upward direction.

Retainer for pyrotechnical device must audibly snap into place.

NOTE: Check seating of retaining lugs in retainer.

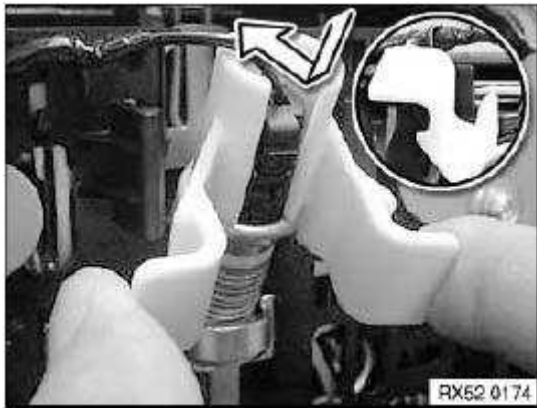


Fig. 44: Pressing Pyrotechnical Device Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Laying wiring harness:

Secure wiring harness in carrier section with strain relief.

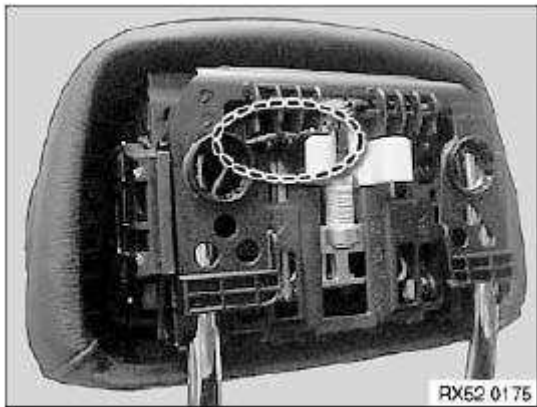


Fig. 45: Identifying Wiring Harness In Carrier Section
Courtesy of BMW OF NORTH AMERICA, INC.

Mounting cover:

Clip cover onto carrier section.

Cover must audibly snap into place.



Fig. 46: Clipping Cover Onto Carrier Section
 Courtesy of BMW OF NORTH AMERICA, INC.

52 13 405 REPLACING BACKREST COVER FOR LEFT OR RIGHT FRONT SEAT (NORMAL/SEMI-ELECTRIC)

Special tools required:

- 00 9 317 , see 00 9 317 TRIM PANEL WEDGE .
- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Detach plug connection (1) by twisting from backrest frame.

Disconnect plug-in connection.

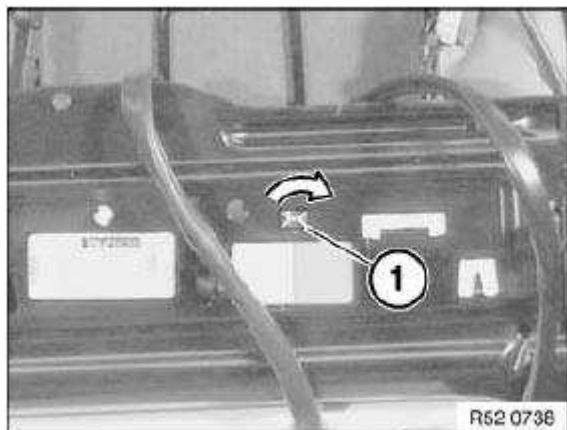


Fig. 47: Detaching Plug Connection From Backrest Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers (1) on cover.

Remove cover.

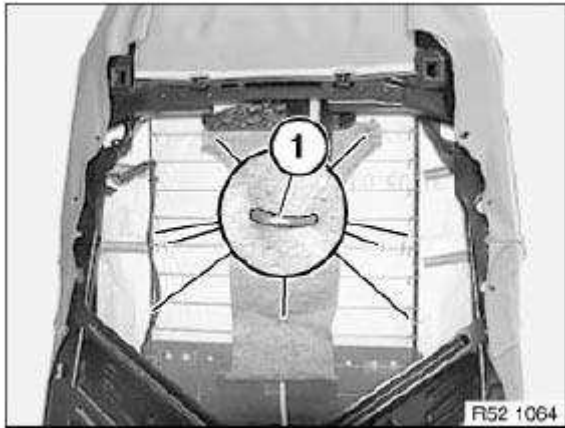


Fig. 48: Identifying Cover Retainers
Courtesy of BMW OF NORTH AMERICA, INC.

For A/C optional extra only:

Detach cable tie (1) and wiring harness for fan.

Disconnect plug connections (2).

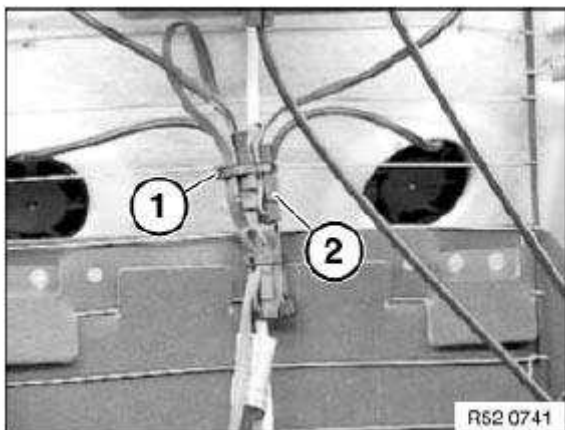


Fig. 49: Identifying Cable Tie And Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook backrest cover at retaining points in area (1).

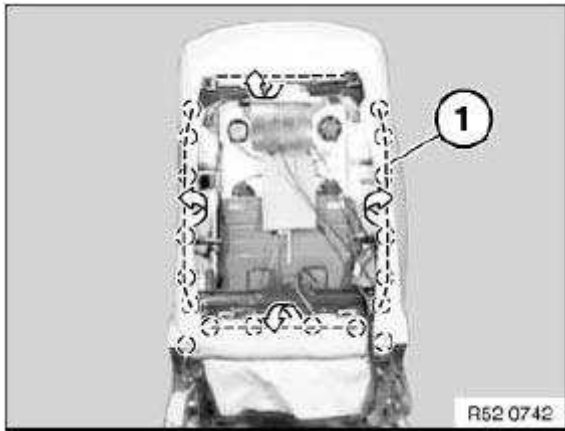


Fig. 50: Unhooking Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook backrest cover (1) at bottom and sides towards front.

Pull off backrest cover (1) with padding towards top from backrest frame (2).

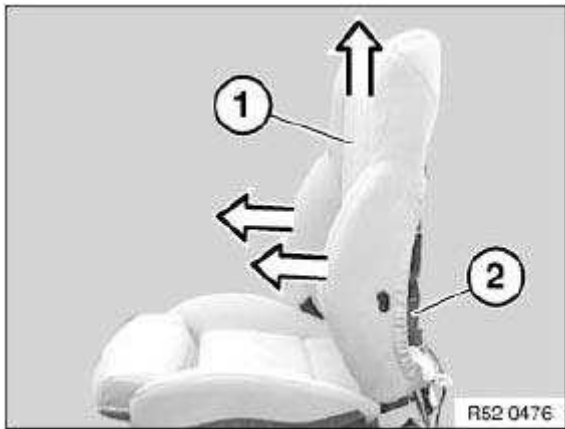


Fig. 51: Pulling Off Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers.

Remove backrest cover (1) from padding.

Remove all remnants of clips from backrest cover (1) and padding.

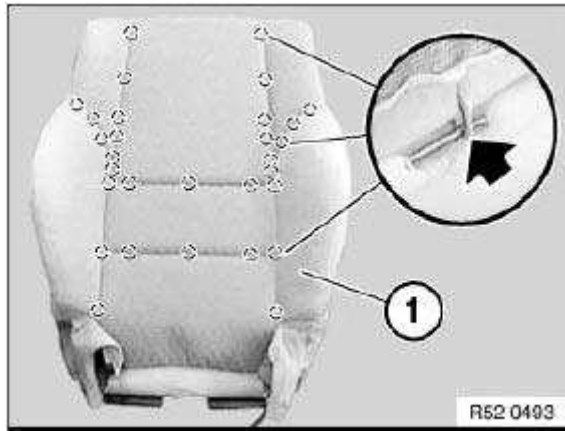


Fig. 52: Removing Clips From Backrest Cover
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainer (2) closed with pliers 52 0 050 .

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in backrest cover
5. Backrest cover

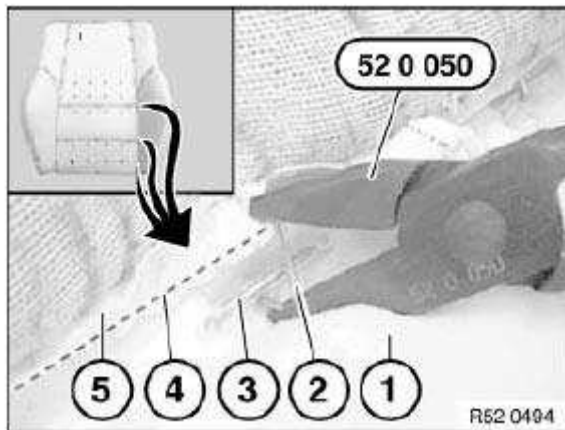


Fig. 53: Bending Retainer
 Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim threads (1) from backrest cover.

- (2) Seat heater cable

Installation:

Push trim threads (1) into new backrest cover.

If necessary, cut into new component.

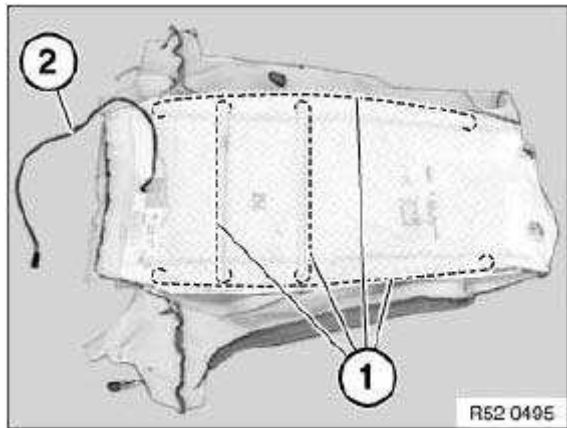


Fig. 54: Identifying Trim Threads

Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking strip of head restraint guide with special tool **00 9 317**.

Installation:

Mount straight front face of head restraint guide towards front.

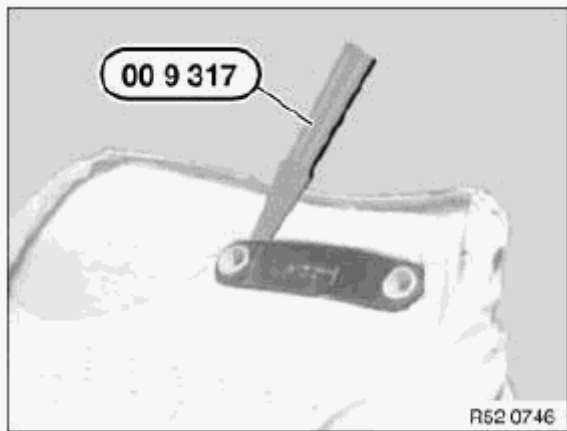


Fig. 55: Levering Out Locking Strip Of Head Restraint Guide Using Special Tool (00 9 317)

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 ... REMOVING AND INSTALLING OUTER UPPER RAIL TRIM

Driver's seat only:

NOTE: Version with anchor fitting tensioner.

Feed trim out of seat mechanism:

1. upwards,
2. slide towards rear

Feed out trim.

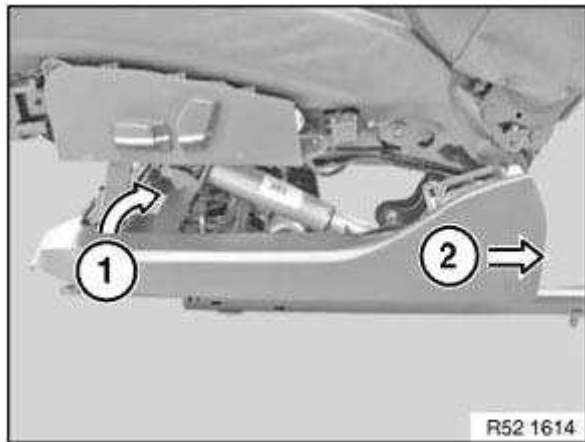


Fig. 56: Feeding Out Trim

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 ... REMOVING AND INSTALLING/REPLACING GUIDE FOR FRONT LEFT OR RIGHT HEAD RESTRAINT

Necessary preliminary tasks:

- Remove **head restraint** , see **52 14 390 Removing and installing or replacing front left or right head restraint.**
- Remove **rear panel on front seat backrest**, see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**

Pull backrest cover (1) in direction of arrow over metal lugs (2) and detach.

If necessary, detach backrest cover on both sides from backrest frame.

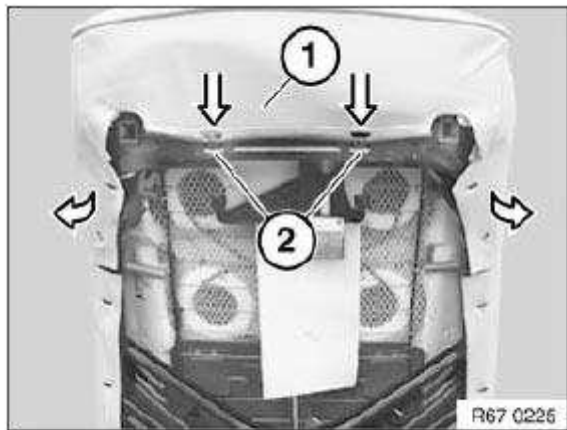


Fig. 57: Pulling Backrest Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Unlock catches (1) and remove guide (2) towards top.

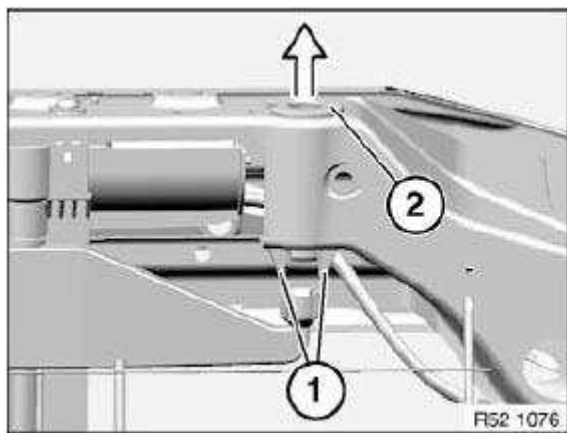


Fig. 58: Removing Guide

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT SEAT

Necessary preliminary tasks:

- Remove **front head restraint** , see **52 14 390 Removing and installing or replacing front left or right head restraint.**

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see **72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS** .
Improper handling can lead to triggering of the pyrotechnical seat belt pretensioner or side airbag, resulting in injuries.

Switch off ignition!

Move front seat upwards.

Release screw (1) on front seat.

Installation:

Replace screw.

Tightening torque **72 11 02AZ** , see **72 11 SEAT BELTS** .

Feed out belt anchor fitting (2).

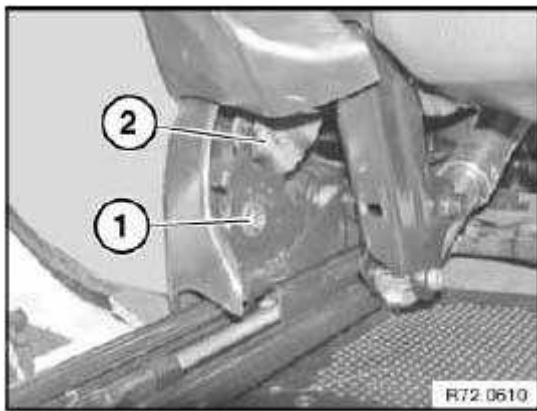


Fig. 59: Identifying Belt Anchor Fitting And Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Move front seat forwards.

Release screws.

Installation:

Replace screws.

Tightening torques **52 10 01AZ** , see **52 10 FRONT SEATS** .

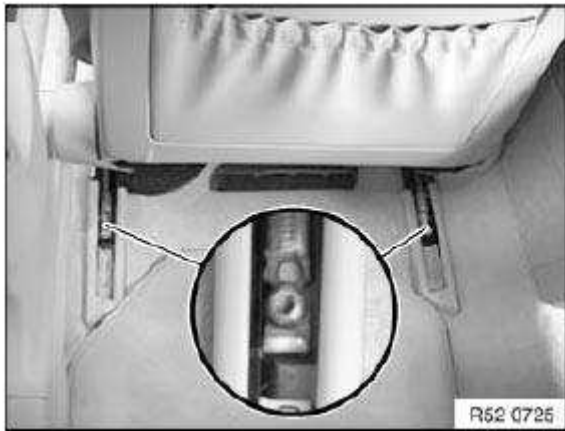


Fig. 60: Identifying Front Seat Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover on left and right:

Move front seat towards rear.

Carefully raise lug (1).

At same time, unlock inner side (2) in direction of arrow.

Remove cover in direction of arrow towards front.

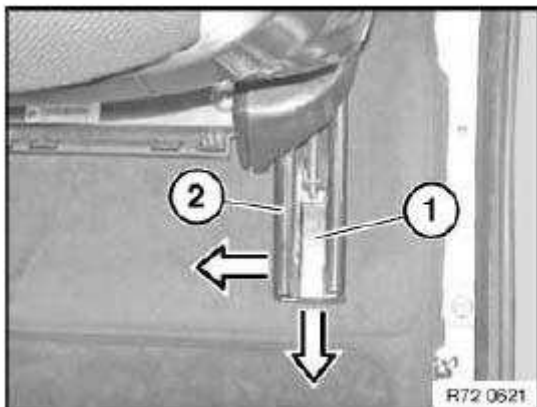


Fig. 61: Removing Cover
 Courtesy of BMW OF NORTH AMERICA, INC.

Release bolts (1).

Installation:

Replace screws.

Tightening torque 52 10 01AZ , see 52 10 FRONT SEATS .

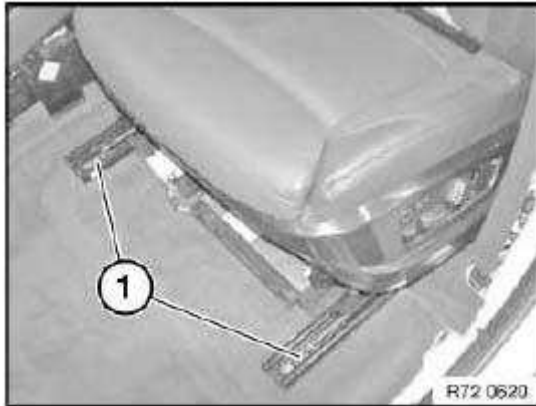


Fig. 62: Identifying Front Seat Bolts
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Carpet must not project between seat rail and floor board in area of screw-down points (grinding noises).

Unclip cover (1) towards front.

Unfasten plug connection (2) and disconnect.

Unclip wiring harness from seat mechanism.

IMPORTANT: Cover door sill with protective covers (risk of damage).

Lift out front seat.

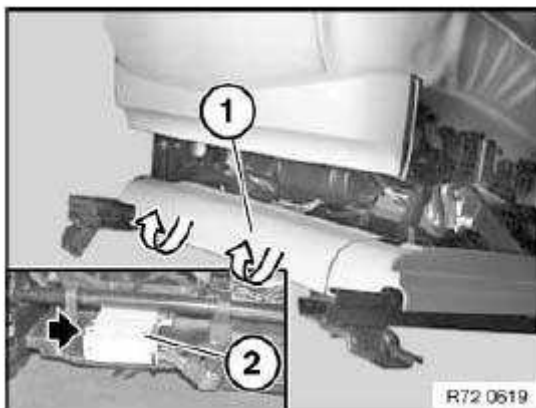


Fig. 63: Unclipping Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure wiring harness is correctly routed in order to avoid grating noises, jamming or collisions.

Clip in cable holder for wiring harness.

Lay wiring harness only in area (1) of cover.

Fitting the wiring harness between the carpet and the cover in control unit area (2) will result in grating noises.

Carry out a complete longitudinal adjustment (forward/back) with front seat.

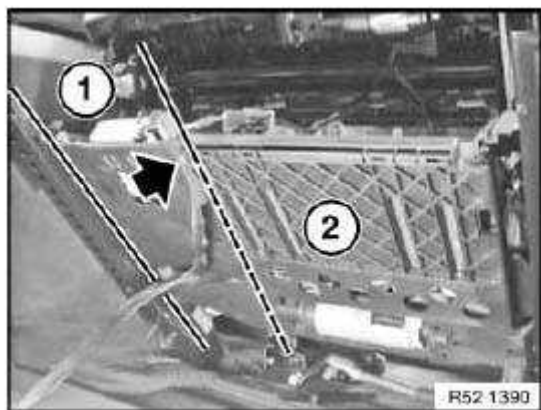


Fig. 64: Identifying Control Unit Area

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 010 REMOVING AND INSTALLING/REPLACING BOTH SEAT RAILS ON LEFT OR RIGHT FRONT SEAT (NORMAL/ELECTRIC)

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **lower strap** (belt tensioner), see **72 11 041 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT LOWER BELT FITTING (SEAT BELT TENSIONER) .**
- Remove **drive unit** for longitudinal seat adjustment, see **67 31 500 REMOVING AND INSTALLING/REPLACING DRIVE UNIT FOR LONGITUDINAL SEAT ADJUSTMENT .**

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt tensioners, see **72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .**

Improper handling can lead to triggering of the pyrotechnical seat belt pretensioner or side airbag, resulting in injuries.

Switch off ignition!

Unlock all plug connections and disconnect.

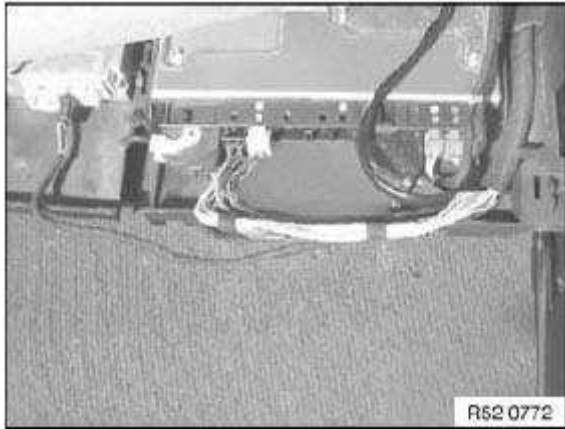


Fig. 65: Identifying Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

Press catches (1).

Slide adjusting unit (2) for active head restraint adjustment in direction of arrow and remove.

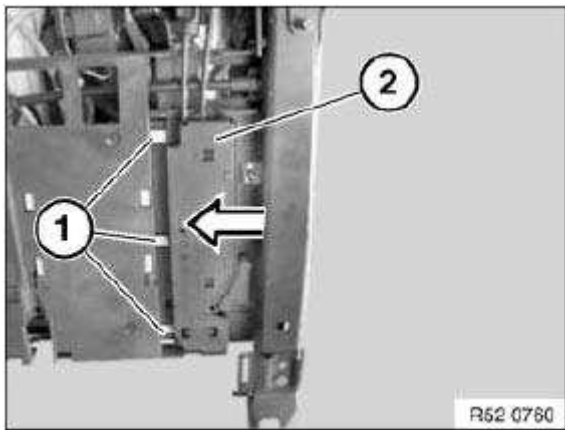


Fig. 66: Sliding Adjusting Unit
Courtesy of BMW OF NORTH AMERICA, INC.

Release left and right screws (1).

Tightening torque **52 10 6AZ** , see **52 10 FRONT SEATS** .

Remove seat rails (4) with carrier plate (3).

Release fastening elements (2) on left and right.

Remove carrier plate (3).

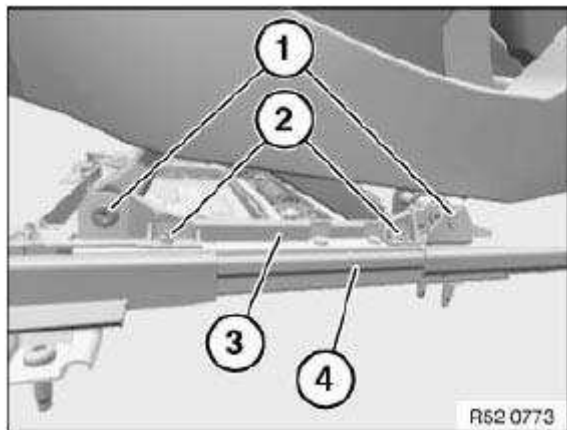


Fig. 67: Identifying Seat Rails, Carrier Plate And Fastening Elements
 Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Remove holder (2) for lower strap (belt tensioner).

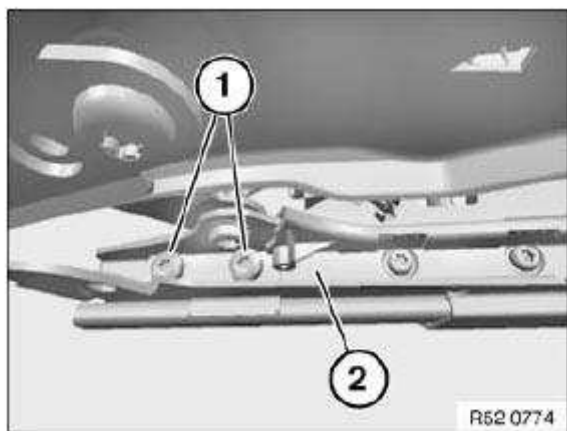


Fig. 68: Identifying Holder And Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

52 14 020 REMOVING AND INSTALLING/REPLACING SEAT FRAME ON LEFT OR RIGHT FRONT SEAT (NORMAL/ELECTRIC)

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **backrest frame** , see **52 17 030 Removing and installing/replacing backrest frame on left or right front seat (comfort).**
- Remove **both seat rails** on front seat, see **52 14 010 Removing and installing/replacing both seat rails on left or right front seat (normal/electric).**
- Remove **seat cover for front seat** , see **52 13 400 Replacing seat cover for left or right front seat**

(normal/semi-electric) or 52 14 400 Replacing cover for left or right front seat or 52 16 400 Removing and installing/replacing seat cover for left or right front seat (sport/electric) or 52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort).

Release fastening elements (1) on left and right.

Remove component (2) on left and right.

Remove complete seat wiring harness.

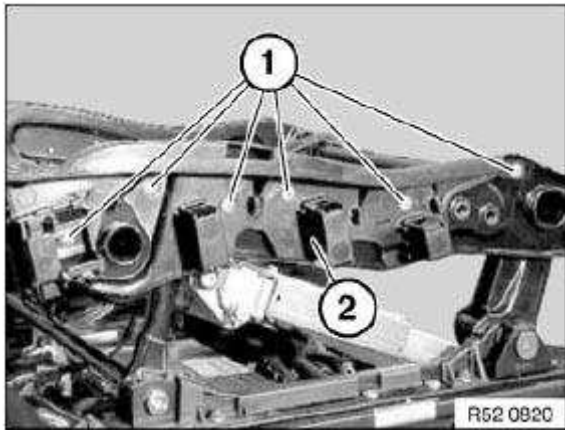


Fig. 69: Identifying Fastening Elements
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The new seat frame part contains all the drives.

52 14 030 REMOVING AND INSTALLING/REPLACING BACKREST FRAME ON LEFT OR RIGHT FRONT SEAT

This operation is identical to:

Replace **backrest frame on front seat (comfort)**, see 52 17 030 Removing and installing/replacing backrest frame on left or right front seat (comfort).

52 14 040 REMOVING AND INSTALLING/REPLACING OUTER COVER ON LEFT OR RIGHT FRONT SEAT

If necessary, move seat fully forwards and upwards.

Remove trim:

1. Unclip at rear towards top side
2. Pull on belt opening to one side
3. Bend trim open slightly at top and bottom on actuating unit

4. Bend open slightly at top and bottom and pull outwards a little

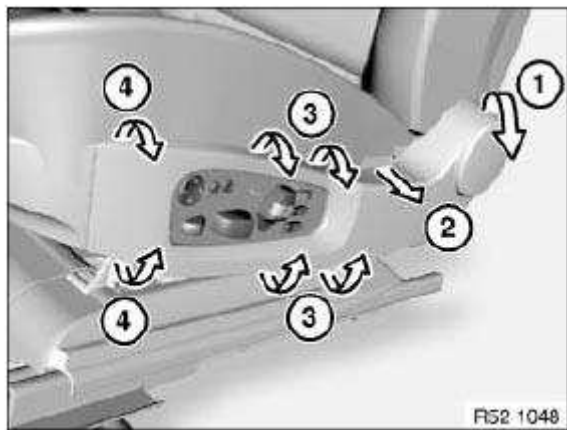


Fig. 70: Removing Trim

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retaining clips must not be damaged.

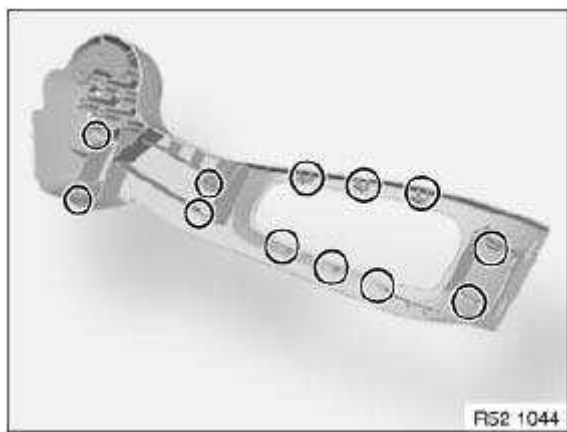


Fig. 71: Identifying Outer Cover Clips

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 041 REMOVING AND INSTALLING INNER COVER ON LEFT OR RIGHT FRONT SEAT

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**

Release screw (1).

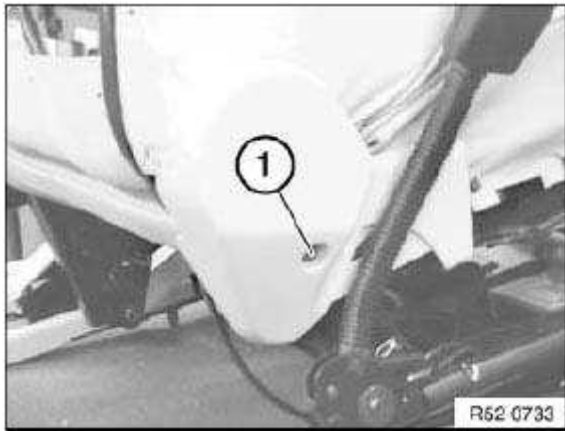


Fig. 72: Identifying Inner Cover Screw
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Cover is secured by guide (2) in hole (1).

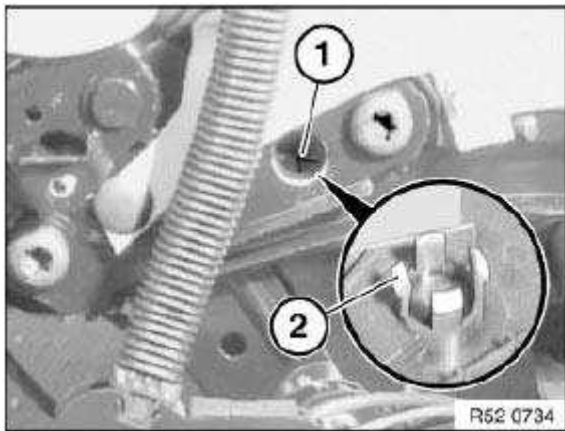


Fig. 73: Identifying Inner Cover Guide And Hole
 Courtesy of BMW OF NORTH AMERICA, INC.

52 14 050 REPLACING LUMBAR CUSHION ON FRONT LEFT OR RIGHT SEAT

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

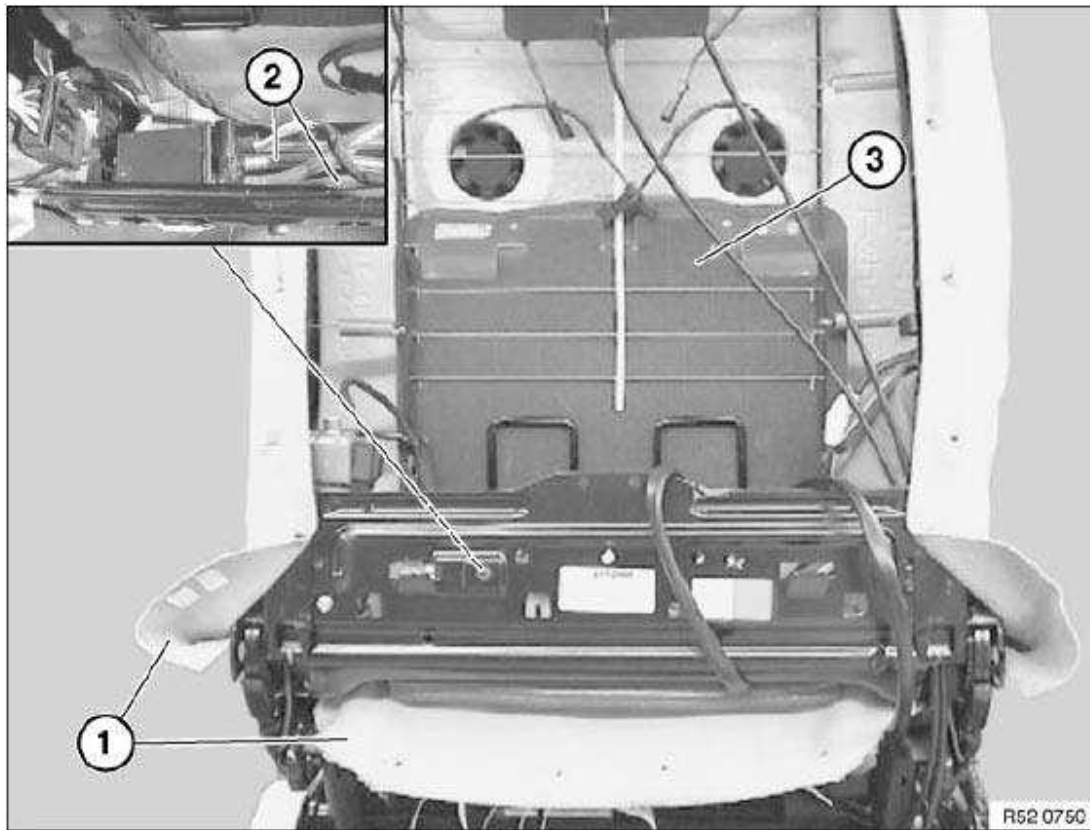


Fig. 74: Identifying Lumbar Cushion, Air Hoses And Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Detach backrest cover (1) at bottom from backrest frame.

Remove **valve housing** , see **52 14 060 Removing and installing/replacing valve housing for left or right front lumbar support (normal/electric).**

Disconnect air hoses (2) from valve housing.

NOTE: **Heat air hoses gently if they are firmly seated on valve housing.
Housing of valve block must not be unclipped (leakage). If necessary, release
mounting and clip housing together.**

If necessary, cut all retainers on lumbar cushion (3) and spring wire.

NOTE: **Remove all remnants of retainers. Lock new retainers by bending with special
tool 52 0 050 .**

Detach lumbar cushion (3) from spring wire.

Remove lumbar cushion (3) downwards between backrest frame and seat mechanism.

Installation:

Make sure air hoses are correctly connected to valve block (colour coding).

Air hoses must be laid without kinks.

Check lumbar cushion for damage.

52 14 060 REMOVING AND INSTALLING/REPLACING VALVE HOUSING FOR LEFT OR RIGHT FRONT LUMBAR SUPPORT (NORMAL/ELECTRIC)

Necessary preliminary tasks:

- Remove **rear panel** on front seat backrest, see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**

Release retaining screw (1).

Disconnect electrical plug connection.

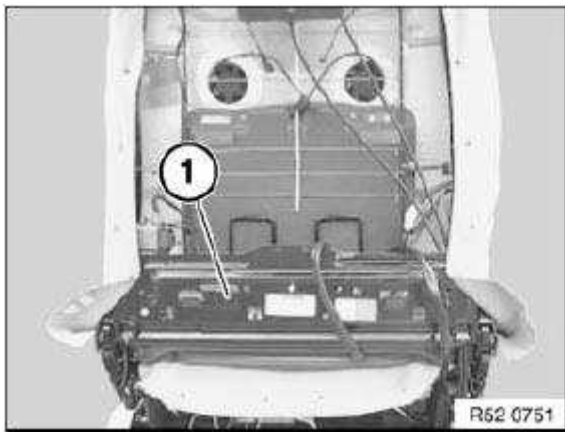


Fig. 75: Identifying Retaining Screw

Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect air hoses (1) and (2).

Installation:

Make sure air hoses (2) are correctly connected to valve block (colour coding: red/blue).

Housing on valve block must not be unclipped (leakage). If necessary, clip housing together.

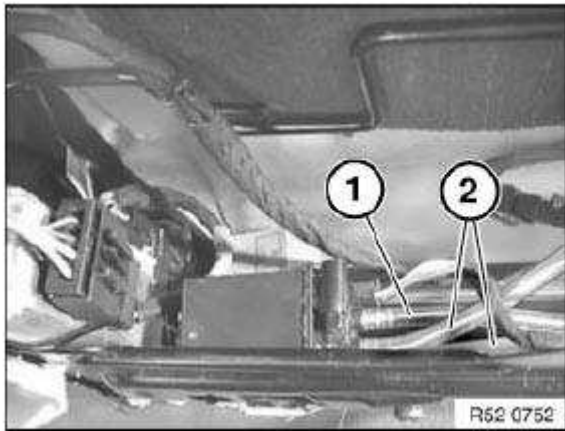


Fig. 76: Identifying Air Hoses

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 198 REMOVING AND INSTALLING OR REPLACING REAR PANEL ON LEFT OR RIGHT FRONT SEAT BACKREST

Operation is shown on the left seat. When removing from the right seat, transpose the pull and striking sides accordingly.

1. Grip between rear panel and backrest cover on tunnel side until clip can be felt (do not pull).
2. At same time, firmly punch towards middle of seat on inner side (tunnel side) at top.

Upper retainers spring out of seat guide.

3. Pull rear panel up out of lower guides.

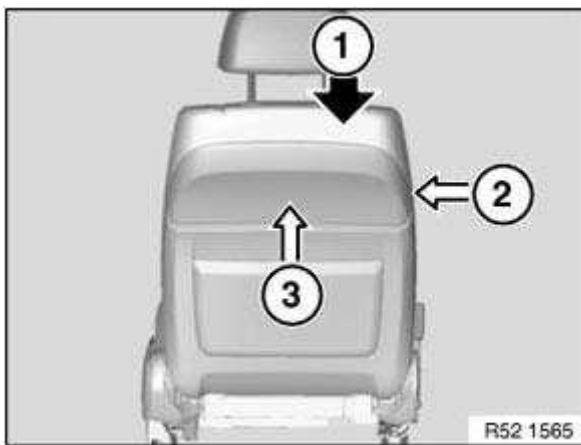


Fig. 77: Pulling Panel Up Out Of Lower Guides

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Rear panel and clips must not be damaged.

1. Upper clips
2. Lower clips

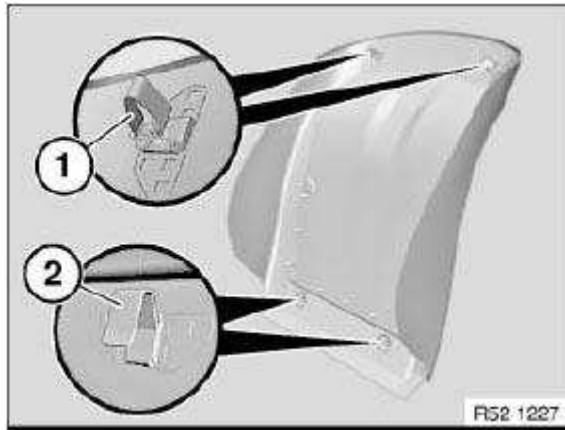


Fig. 78: Identifying Rear Panel And Clips

Courtesy of BMW OF NORTH AMERICA, INC.

52 14 380 REMOVING AND INSTALLING/REPLACING HEAD RESTRAINT MOUNT ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing **drive for head restraint adjustment** on left or right front seat, see **67 31 570 REMOVING AND INSTALLING/REPLACING DRIVE FOR HEAD RESTRAINT HEIGHT ADJUSTMENT ON LEFT OR RIGHT FRONT SEAT** .

52 14 390 REMOVING AND INSTALLING OR REPLACING FRONT LEFT OR RIGHT HEAD RESTRAINT

Move headrest up as far as possible.

Pull out forcefully.

Installation:

Press in head restraint until it can be heard to snap into place.

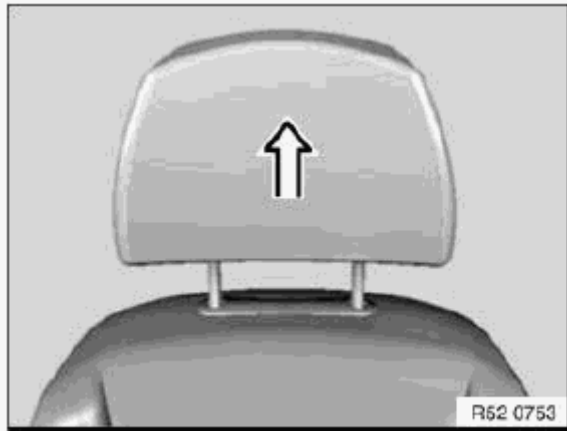


Fig. 79: Lifting Out Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

52 14 393 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT CRASH-ACTIVE HEAD RESTRAINT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **rear panel** , see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Unfasten plug connection (1) and disconnect.

Pull out split pin (2).

If necessary, cut cable ties.

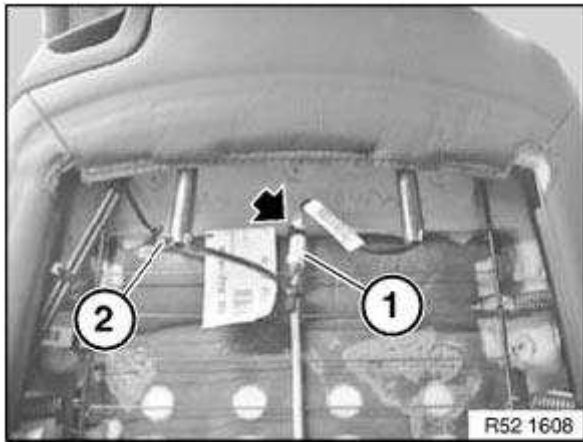


Fig. 80: Identifying Plug Connection And Split Pin
 Courtesy of BMW OF NORTH AMERICA, INC.

Lift out head restraint.

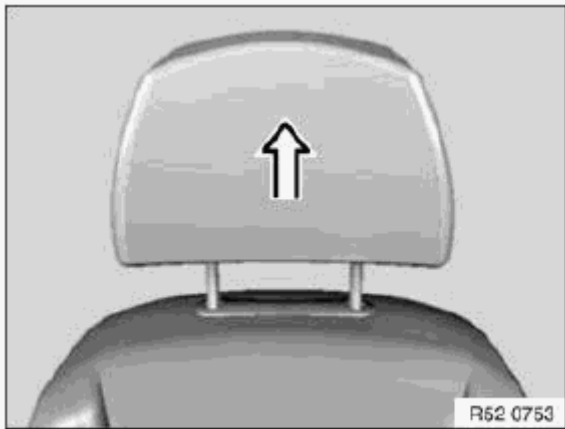


Fig. 81: Lifting Out Head Restraint
 Courtesy of BMW OF NORTH AMERICA, INC.

52 14 400 REPLACING COVER FOR LEFT OR RIGHT FRONT SEAT

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.
- Remove **inner cover** on front seat, see 52 14 041 Removing and installing inner cover on left or right

front seat.

US/CDN front passenger seat (OC3 mat) only:

If seat cover is defective, seat cover, padding and OC3 mat must be replaced together.

The same applies to a defective OC3 mat or padding; both parts can only be replaced together with the seat cover.

New seat cover is supplied with padding, OC3 mat and if necessary seat heating.

Individual parts not available.

After fitting seat cover, enable OC3 mat with BMW programming system.

Enabling seat occupancy detector (OC3 mat):

- Connect **BMW programming system**
- Code airbag control unit
- Clear fault memory if necessary

Remove cover (1) on front seat:

- Press clip on door side outwards
- Press clip on tunnel side upwards
- Pull cover (1) forwards out of seat mechanism

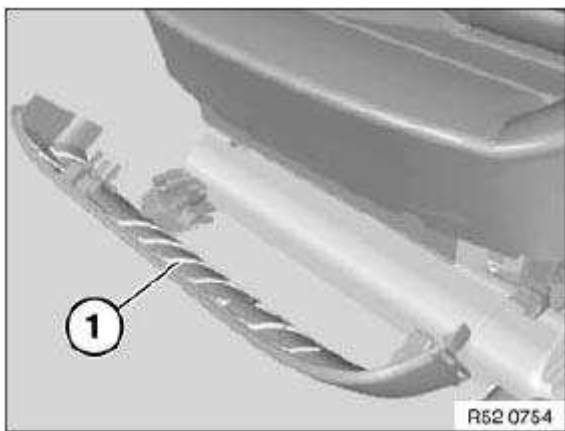


Fig. 82: Identifying Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Unhook seat cover on at all retaining points (1).

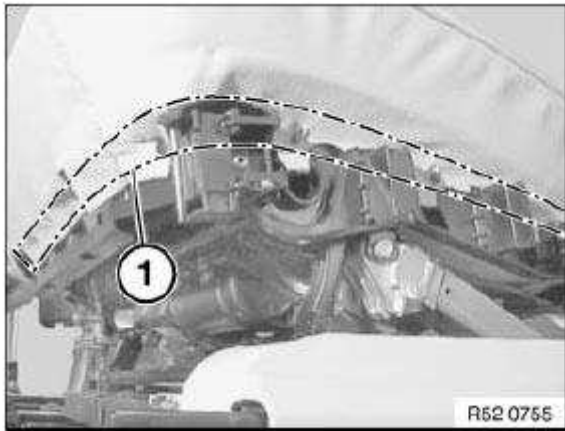


Fig. 83: Identifying Seat Cover Unhook Retaining Points
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook seat cover (1) in area (2).

If necessary, detach plug connections (3).

Remove seat cover (1) complete with padding.

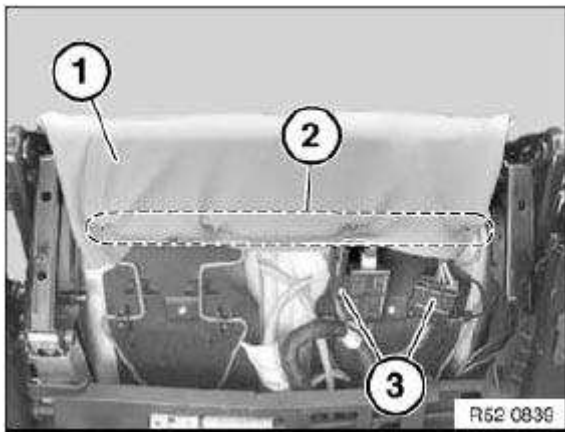


Fig. 84: Identifying Seat Cover Unhook Area
Courtesy of BMW OF NORTH AMERICA, INC.

Replacing seat cover

Version with OC3 mat:

- OC3 mat must not be kinked under any circumstances.

Detach all retainers in side area from longitudinal wires (1).

Pull trim wires (1) forward out of seat cover.

Carefully fold back seat cover and release retainers from cross-wires (2).

Remove seat cover from padding.

IMPORTANT: Remove all remnants of clips from seat cover and padding.

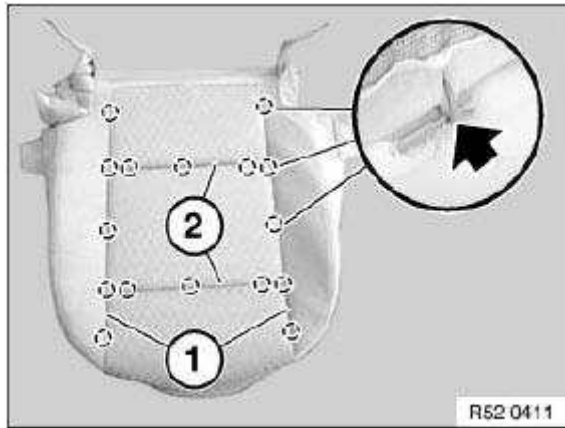


Fig. 85: Detaching Retainers In Side Area From Longitudinal Wires
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainer (2) closed with pliers 52 0 050 .

1. Padding
2. Clips
3. Trim wire in seat cover
4. Trim wire in padding
5. Seat cover

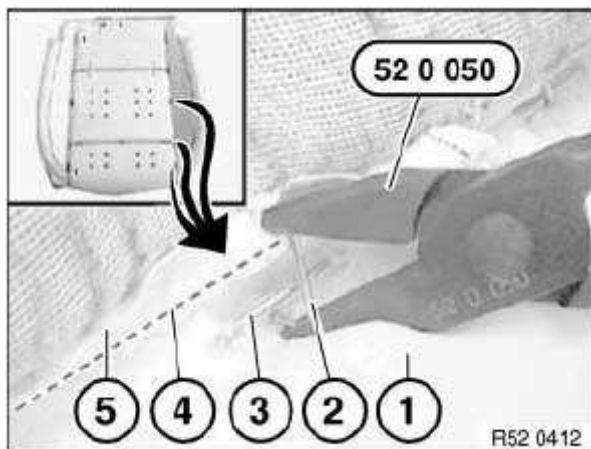


Fig. 86: Bending Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim threads (1) from seat cover (2).

(3) If necessary, cable for seat heating

Installation:

Slide trim threads (1) into new seat cover (2). If necessary, cut mounting for trim threads.

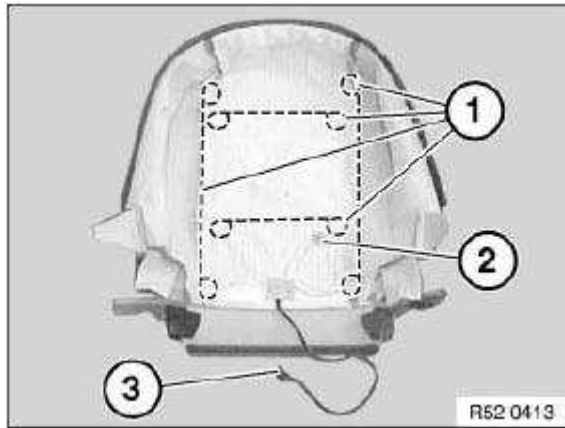


Fig. 87: Identifying Trim Threads And Seat Cover

Courtesy of BMW OF NORTH AMERICA, INC.

52 16 393 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT CRASH-ACTIVE HEAD RESTRAINT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **rear panel** , see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Unfasten plug connection (1) and disconnect.

Feed out wiring harness from head restraint height adjustment and foam material.

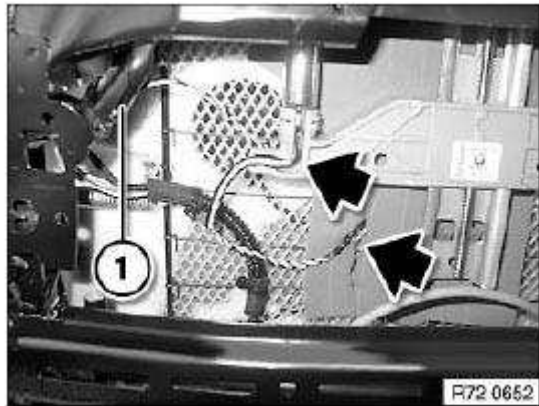


Fig. 88: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking clamps (1)

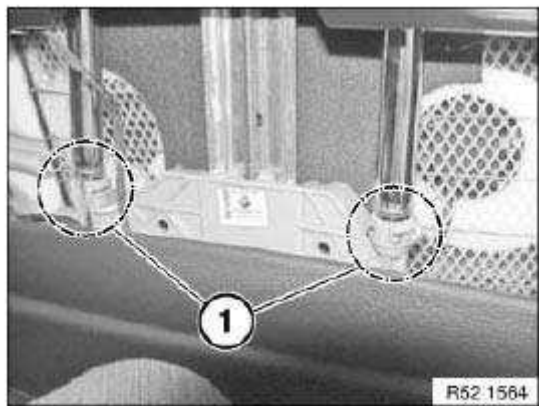


Fig. 89: Identifying Locking Clamps
Courtesy of BMW OF NORTH AMERICA, INC.

Lift out head restraint.

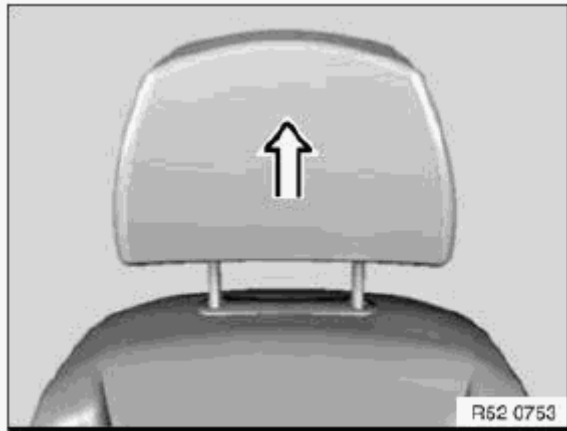


Fig. 90: Lifting Out Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT SEAT, SPORTS, ELECTRICAL

52 13 385 REPLACING GAS CARTRIDGE (PYROACTIVATOR) FOR CRASH-ACTIVE HEAD RESTRAINT ON FRONT SEAT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **crash-active head restraint** , see 52 14 393 Removing and installing/replacing front left or right crash-active head restraint.

IMPORTANT: The pyrotechnical device may be replaced up to 5 times.
Triggering frequency is denoted on the sticker on the head restraint carrier.
Stickers are available as spare parts.

Starting situation:

Head restraint is in the crash position after being triggered.

NOTE: Pyroactivator can only be removed in the triggered state.
The complete crash-active head restraint must be replaced if the event of a

head restraint fault signal and an untriggered pyroactivator.



Fig. 91: Identifying Head Restraint

Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover:

Raise cover (1) and pull towards rear.

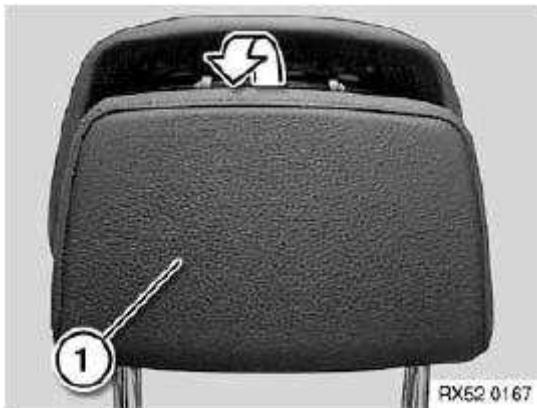


Fig. 92: Raising Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyrotechnical device:

Press together retainer (1) for pyrotechnical device at lugs.

Feed out pyrotechnical device.

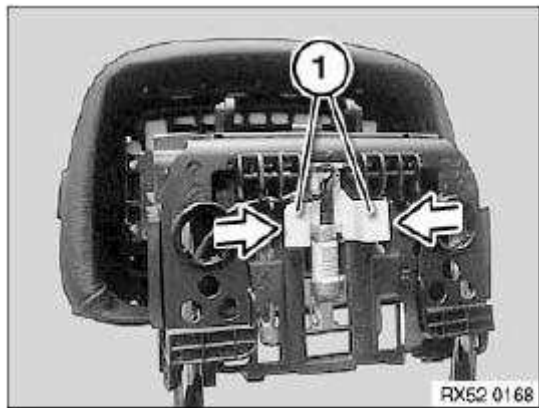


Fig. 93: Pressing Pyrotechnical Device Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyroactivator:

Pull pyroactivator (2) out of mounting (1) for pyrotechnical device.

Unlock **plug connection** (3) and disconnect.

IMPORTANT: Dispose of plastic element and pyroactivator.

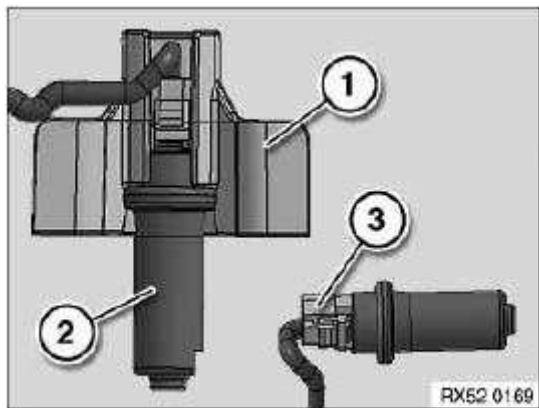


Fig. 94: Identifying Pyroactivator, Mounting And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Procedure for installing pyrotechnical device:

Bringing head restraint together - version without button (MFS):

Pull spring catches apart and push head restraint together.

Maintain position.

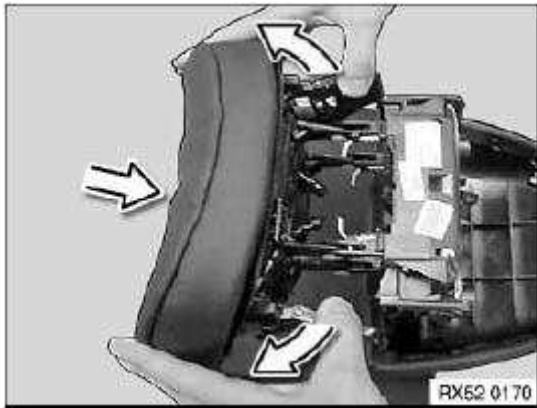


Fig. 95: Pushing Head Restraint
 Courtesy of BMW OF NORTH AMERICA, INC.

Bringing head restraint together - version with button (Basic):

Press button (1) and push head restraint together.

Maintain position.

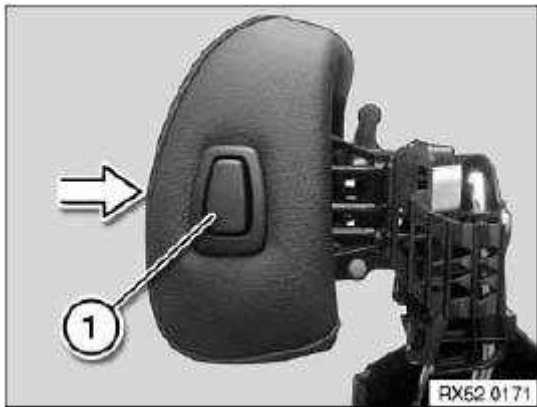


Fig. 96: Pressing Button
 Courtesy of BMW OF NORTH AMERICA, INC.

Locking release plate:

Hold pushed-together head restraint in position and push release plate (1) upwards up to stop.

Release plate (1) must audibly snap into place.

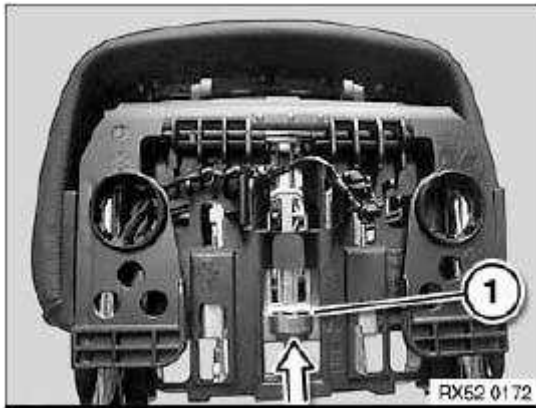


Fig. 97: Pushing Release Plate
Courtesy of BMW OF NORTH AMERICA, INC.

Checking head restraint lock:

Check end position of release plate (1).

All four springs must be engaged (snapped into place).

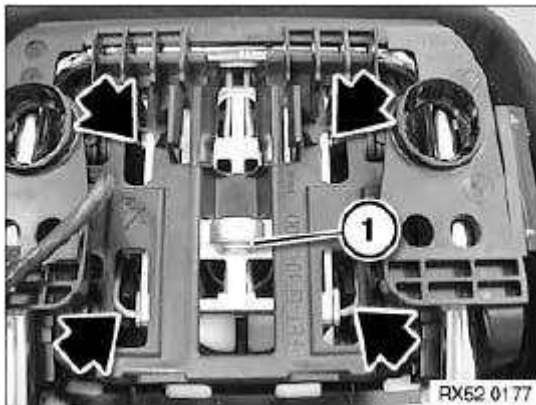


Fig. 98: Identifying Release Plate
Courtesy of BMW OF NORTH AMERICA, INC.

Replacing pyrotechnical device:

Connect plug (1) to new pyroactivator (2) and **lock** .

Clip pyroactivator (2) into new mounting (3).

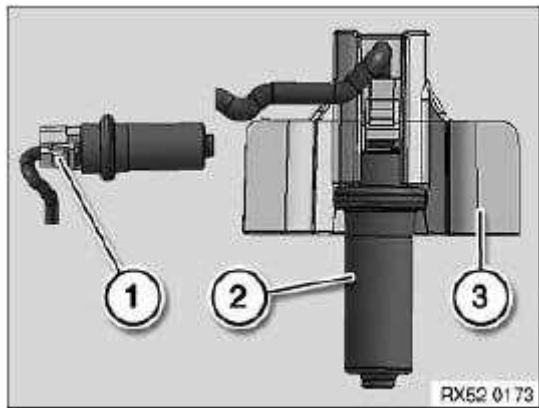


Fig. 99: Identifying Plug, Pyroactivator And Mounting
 Courtesy of BMW OF NORTH AMERICA, INC.

Installing pyrotechnical device:

Press together retainer for pyrotechnical device at lugs.

Insert retainer for pyrotechnical device into release plate and tilt in upward direction.

Retainer for pyrotechnical device must audibly snap into place.

NOTE: Check seating of retaining lugs in retainer.

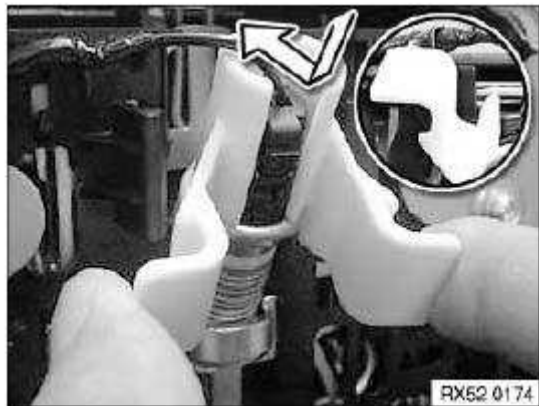


Fig. 100: Pressing Pyrotechnical Device Retainer
 Courtesy of BMW OF NORTH AMERICA, INC.

Laying wiring harness:

Secure wiring harness in carrier section with strain relief.

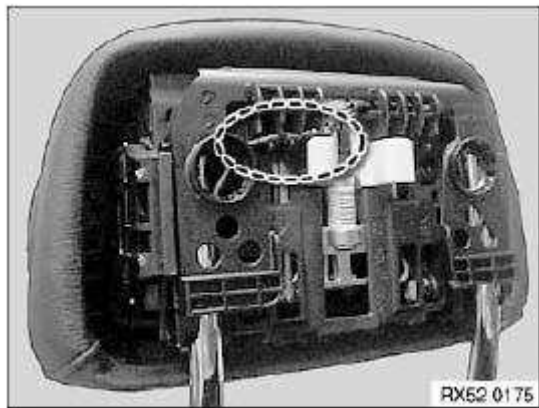


Fig. 101: Identifying Wiring Harness In Carrier Section
 Courtesy of BMW OF NORTH AMERICA, INC.

Mounting cover:

Clip cover onto carrier section.

Cover must audibly snap into place.



Fig. 102: Clipping Cover Onto Carrier Section
 Courtesy of BMW OF NORTH AMERICA, INC.

52 16 ... REMOVING AND INSTALLING/REPLACING ALL TRIMS ON LEFT OR RIGHT SEAT RAILS

Operation is identical to:

Removing all trims on left or right seat rail. , see 52 17 ... Removing and installing/replacing all trims on left or right seat rails.

52 16 ... REMOVING AND INSTALLING/REPLACING GUIDE FOR FRONT LEFT OR RIGHT HEAD RESTRAINT

Operation is identical to:

- Removing **guide for front head restraint** , see 52 14 390 Removing and installing or replacing front left or right head restraint or 52 16 393 Removing and installing/replacing front left or right crash-active head restraint.

52 16 ... REPLACING PADDING FOR FRONT SEAT THIGH SUPPORT

Release screws (1).

Installation:

Insert screws (1) with Loctite.

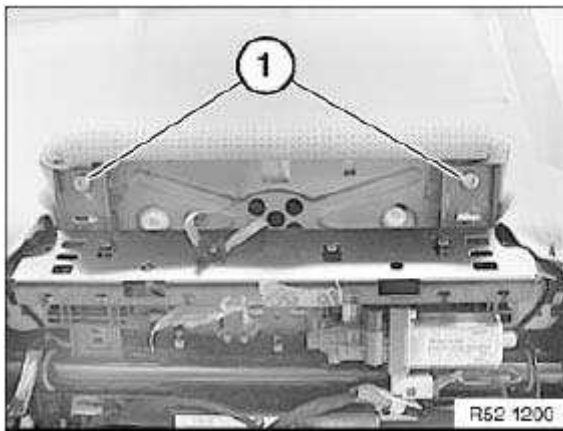


Fig. 103: Identifying Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Unhook seat cover (1) from marked area.

Remove carrier (2) for thigh support.

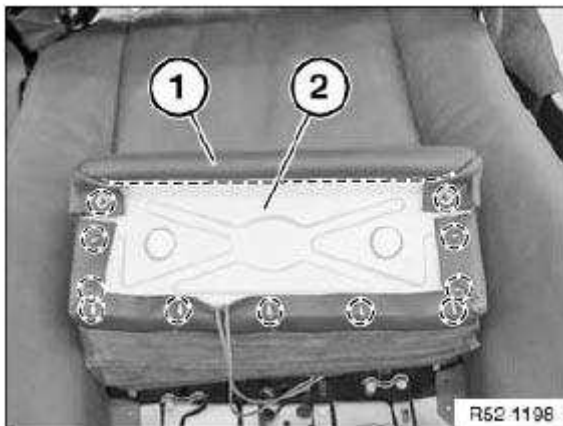


Fig. 104: Identifying Seat Cover And Carrier
Courtesy of BMW OF NORTH AMERICA, INC.

For seat heating optional extra only:

Carefully detach felt (1) from thigh support.

Unfasten plug connection (2) and disconnect.

Installation:

Ensure correct cable routing.

Remove padding from cover.

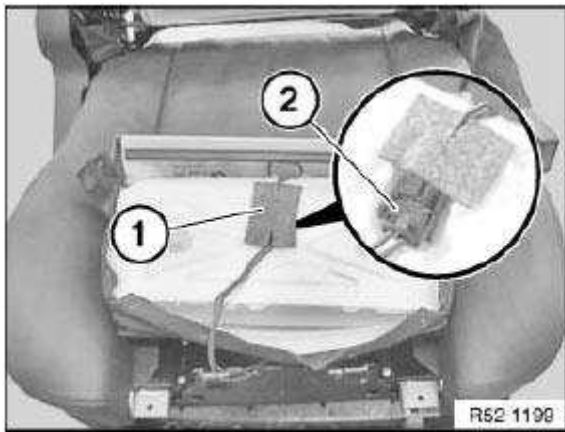


Fig. 105: Identifying Plug Connection And Felt
Courtesy of BMW OF NORTH AMERICA, INC.

52 16 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing left or right **front seat (normal/electric)** , see **52 14 000 Removing and installing left or right front seat.**

52 16 010 REMOVING AND INSTALLING/REPLACING BOTH SEAT RAILS ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing **both seat rails on left or right front seat (normal/electric)** , see **52 14 010 Removing and installing/replacing both seat rails on left or right front seat (normal/electric).**

52 16 020 REMOVING AND INSTALLING/REPLACING SEAT FRAME ON LEFT OR RIGHT

FRONT SEAT

Operation is identical to:

Replacing **seat frame on left or right front seat (normal/electric)** , see **52 14 020 Removing and installing/replacing seat frame on left or right front seat (normal/electric).**

52 16 023 REMOVING AND INSTALLING/REPLACING ADJUSTING UNIT FOR THIGH SUPPORT ON LEFT OR RIGHT FRONT SEAT

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**

Move thigh support forwards as far as possible.

Unfasten plug connection (1) and disconnect.

Release screws (2).

Installation:

Insert screws (2) with Loctite.

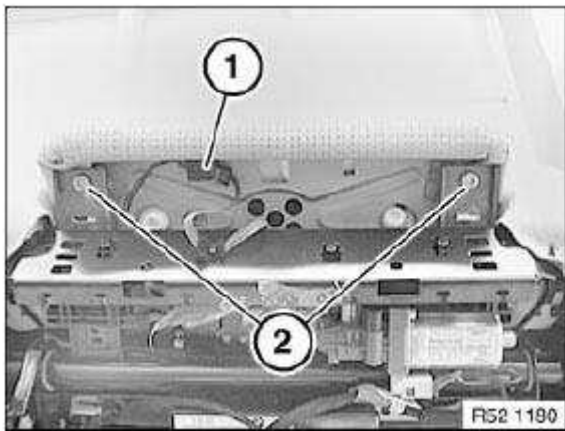


Fig. 106: Identifying Plug Connection And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws in areas (1).

Feed out adjusting unit (2) complete with drive in direction of arrow and remove.

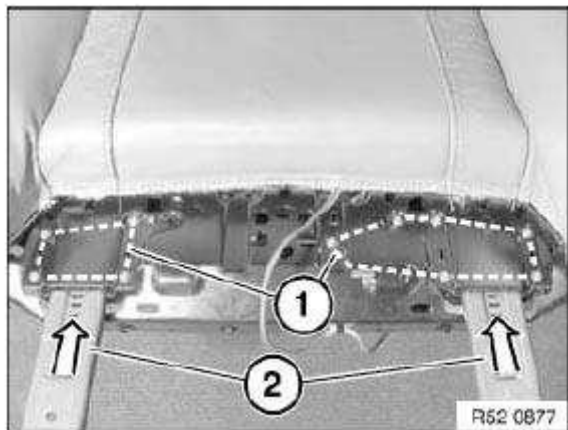


Fig. 107: Feeding Out Adjusting Unit

Courtesy of BMW OF NORTH AMERICA, INC.

52 16 030 REMOVING AND INSTALLING/REPLACING BACKREST FRAME ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing **backrest frame on front seat (comfort)**, see 52 17 030 Removing and installing/replacing backrest frame on left or right front seat (comfort).

52 16 040 REMOVING AND INSTALLING/REPLACING OUTER COVER ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

- Removing and installing/replacing **outer cover on left or right front seat**, see 52 13 040 Removing and installing/replacing outer cover on left or right front seat (normal/semi-electric).

52 16 041 REMOVING AND INSTALLING INNER COVER ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing **inner cover on left or right front seat (normal/electric)**, see 52 14 041 Removing and installing inner cover on left or right front seat.

52 16 050 REPLACING LUMBAR CUSHION ON FRONT LEFT OR RIGHT SEAT

Operation is identical to:

Replacing **lumbar cushion on front left or right seat (normal/electric)**, see 52 14 050 Replacing lumbar cushion on front left or right seat.

52 16 060 REMOVING AND INSTALLING/REPLACING VALVE HOUSING FOR LEFT OR RIGHT

FRONT LUMBAR SUPPORT

Operation is identical to:

Replacing valve housing for left or right front lumbar support (normal/electric), see 52 14 060 Removing and installing/replacing valve housing for left or right front lumbar support (normal/electric).

52 16 095 REMOVING AND INSTALLING/REPLACING THIGH SUPPORT HOLDER ON FRONT LEFT OR RIGHT SEAT (SPORTS/ELECTRIC)

Necessary preliminary tasks:

- Move thigh support forwards fully

Unfasten plug connection (1) and disconnect.

Release screws (2).

Installation:

Insert screws (2) with Loctite.

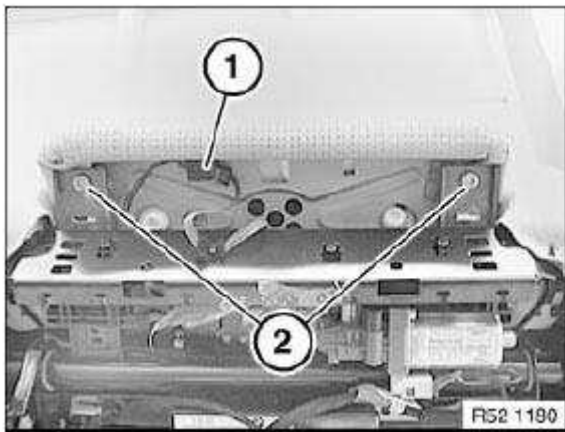


Fig. 108: Identifying Plug Connection And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Detach seat cover (1) in marked area from carrier (2) for thigh support.

Feed plug out of carrier (2) for thigh support.

Remove carrier (2) for thigh support.

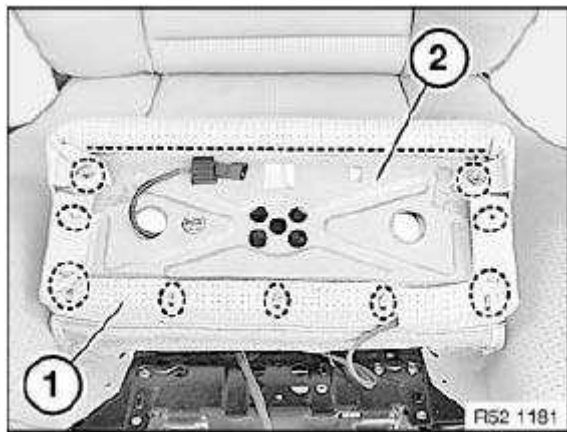


Fig. 109: Identifying Seat Cover And Carrier
 Courtesy of BMW OF NORTH AMERICA, INC.

52 16 198 REMOVING AND INSTALLING OR REPLACING REAR PANEL ON LEFT OR RIGHT FRONT SEAT BACKREST

Operation is identical to:

Replacing rear panel on left or right front seat backrest (normal/electric), see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

52 16 380 REMOVING AND INSTALLING/REPLACING HEAD RESTRAINT MOUNT ON LEFT OR RIGHT FRONT SEAT

Operation is identical to:

Replacing drive for head restraint adjustment on left or right front seat, see 67 31 570 REMOVING AND INSTALLING/REPLACING DRIVE FOR HEAD RESTRAINT HEIGHT ADJUSTMENT ON LEFT OR RIGHT FRONT SEAT .

52 16 393 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT CRASH-ACTIVE HEAD RESTRAINT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS . Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect battery negative lead , see 61 20 900 DISCONNECTING AND CONNECTING

BATTERY NEGATIVE LEAD .

- Remove **rear panel** , see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**

Unfasten plug connection (1) and disconnect.

Feed out wiring harness from head restraint height adjustment and foam material.

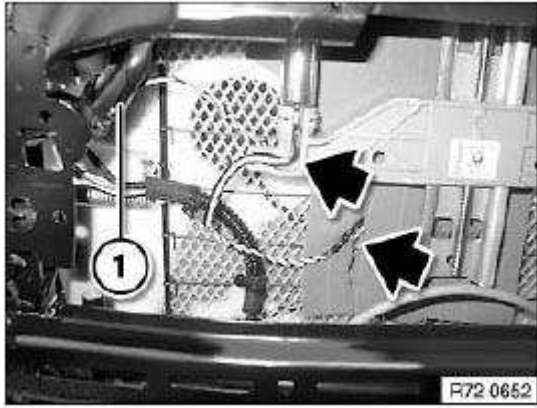


Fig. 110: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking clamps (1)

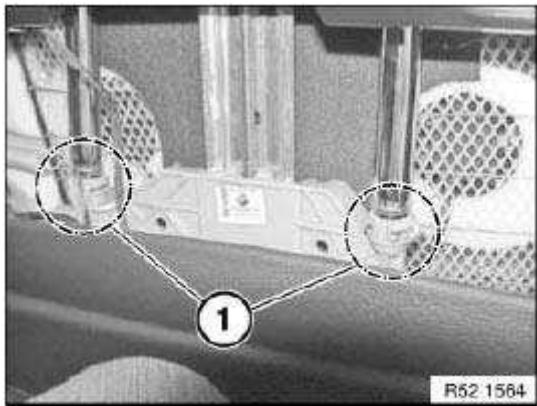


Fig. 111: Identifying Locking Clamps
Courtesy of BMW OF NORTH AMERICA, INC.

Lift out head restraint.

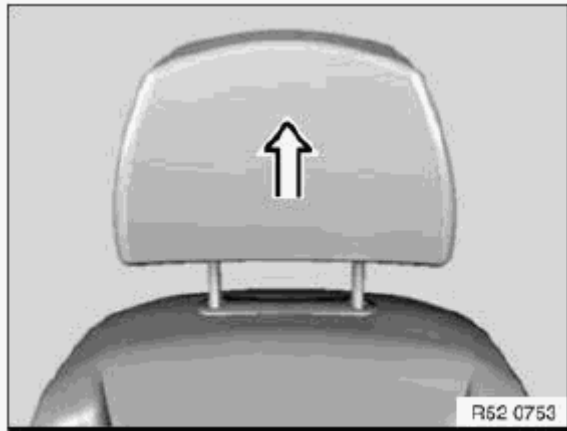


Fig. 112: Lifting Out Head Restraint
 Courtesy of BMW OF NORTH AMERICA, INC.

52 16 400 REMOVING AND INSTALLING/REPLACING SEAT COVER FOR LEFT OR RIGHT FRONT SEAT (SPORT/ELECTRIC)

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.
- Remove **inner cover** on front seat, see 52 14 041 Removing and installing inner cover on left or right front seat.
- Remove **switch combination** for seat adjustment

US/CDN front passenger seat (OC3 mat) only:

If seat cover is defective, seat cover, padding and OC3 mat must be replaced together.

The same applies to a defective OC3 mat or padding; both parts can only be replaced together with the seat cover.

New seat cover is supplied with padding, OC3 mat and if necessary seat heating.

After fitting, the OC3 mat must be enabled with the BMW programming system.

Individual parts not available.

Enabling seat occupancy detector (OC3 mat):

- Connect **BMW programming system**
- Code airbag control unit
- Clear fault memory if necessary

Unclip cover (1) on front seat.

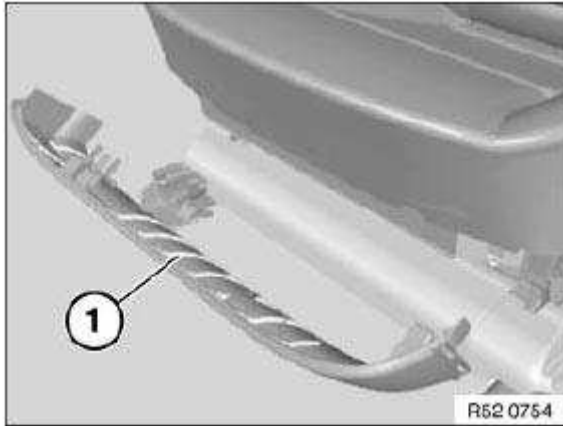


Fig. 113: Identifying Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Disconnect plug connections (2) and detach cable.

Remove thigh support (3) towards top.

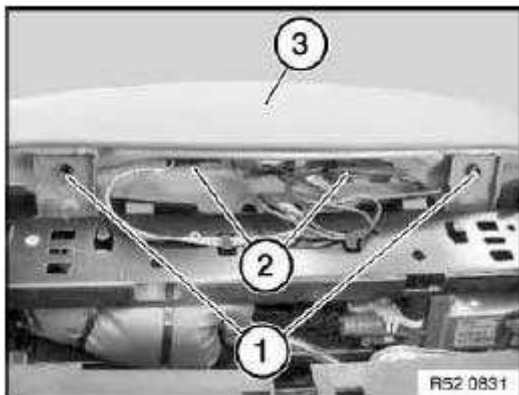


Fig. 114: Identifying Plug Connections, Thigh Support And Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Detach seat cover (1) in marked area on left and right.

Lever out left and right clips (2).

Installation:

If necessary, replace faulty clips.

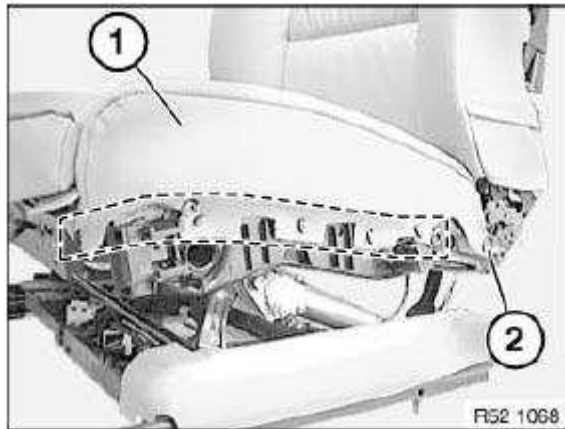


Fig. 115: Identifying Seat Cover And Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook seat cover (1) in area (2).

Disconnect plug connection (3).

Remove seat cover (1) complete with padding.

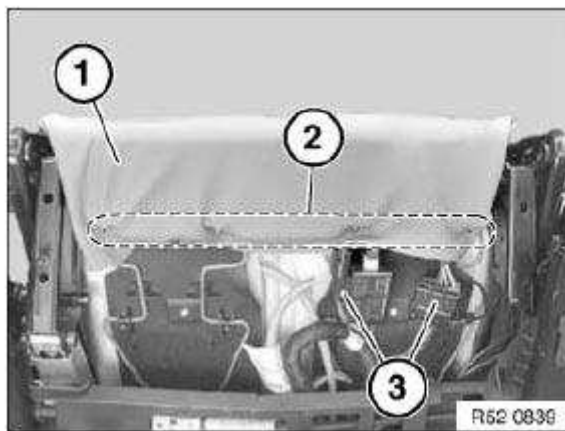


Fig. 116: Identifying Seat Cover Unhook Area
Courtesy of BMW OF NORTH AMERICA, INC.

Detach all retainers in side area from longitudinal wires (1).

Pull trim wires (1) forward out of seat cover.

Carefully fold back seat cover and release retainers from cross-wires (2).

Remove seat cover from padding.

IMPORTANT: Remove all remnants of clips from seat cover and padding.

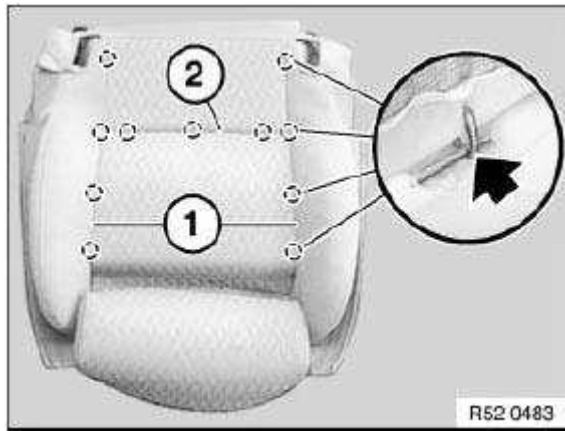


Fig. 117: Detaching Retainers In Side Area From Longitudinal Wires
Courtesy of BMW OF NORTH AMERICA, INC.

Detach cable strap (3).

Unlock plug connection (4) and disconnect.

Detach seat cover (2) in marked area from thigh support (1).

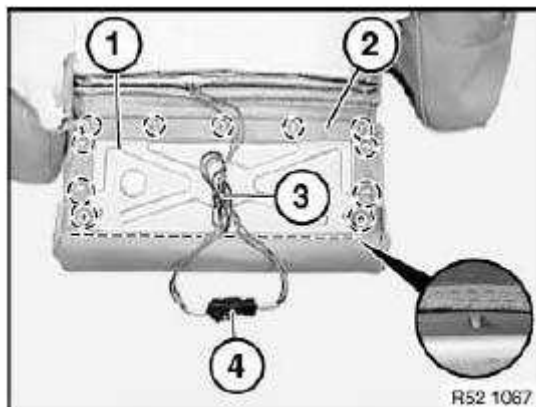


Fig. 118: Identifying Cable Strap, Plug Connection, Seat Cover And Thigh Support
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainers closed with pliers 52 0 050 .

1. Padding

2. Retainer
3. Trim wire in padding
4. Trim thread in cover
5. Seat cover

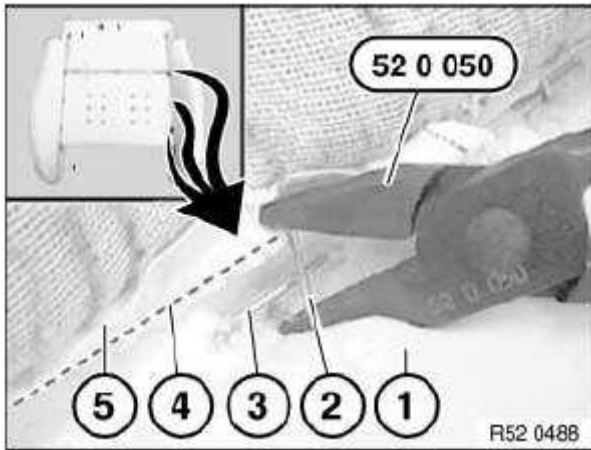


Fig. 119: Bending Retainers
 Courtesy of BMW OF NORTH AMERICA, INC.

Replacing seat cover

Pull trim wires (1) out of seat cover (2).

Installation:

Slide trim threads (1) into new seat cover (2). If necessary, cut mounting for trim threads.

(3) Seat heater cable

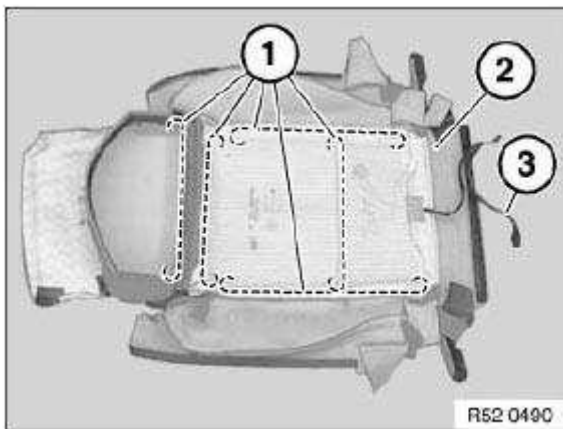


Fig. 120: Identifying Trim Threads And Seat Cover
 Courtesy of BMW OF NORTH AMERICA, INC.

52 16 405 REPLACING BACKREST COVER FOR LEFT OR RIGHT FRONT SEAT

Special tools required:

- 00 9 317 , see 00 9 317 TRIM PANEL WEDGE .
- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **rear panel** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Unfasten plug connection (1) and disconnect.

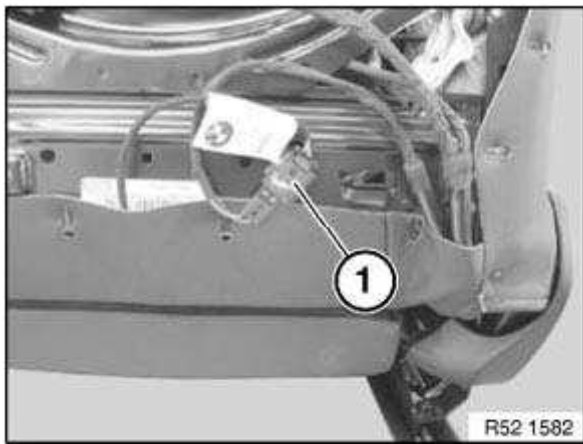


Fig. 121: Identifying Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers from cover (1).

Installation:

Bend new retainers closed with pliers 52 0 050 .

Remove cover (1).

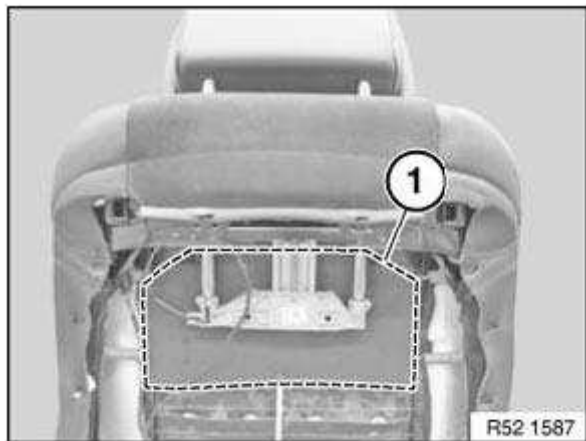


Fig. 122: Identifying Cover
 Courtesy of BMW OF NORTH AMERICA, INC.

For A/C optional extra only:

Loosen retainers (1).

Installation:

Bend new retainers closed with pliers **52 0 050** .

Unlock plug connections (2) and disconnect.

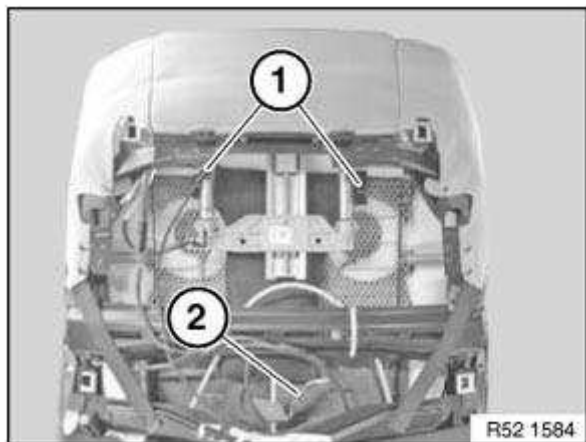


Fig. 123: Identifying Plug Connections And Retainers
 Courtesy of BMW OF NORTH AMERICA, INC.

Detach backrest cover all round from backrest frame.

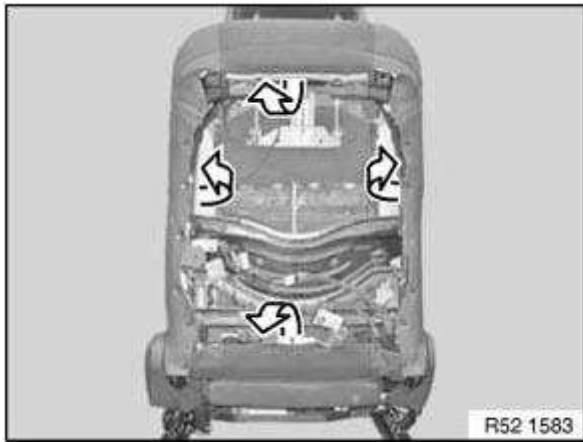


Fig. 124: Detaching Backrest Cover From Backrest Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook backrest cover (1) at bottom and sides towards front.

Pull off backrest cover (1) with padding towards top from backrest frame (2).

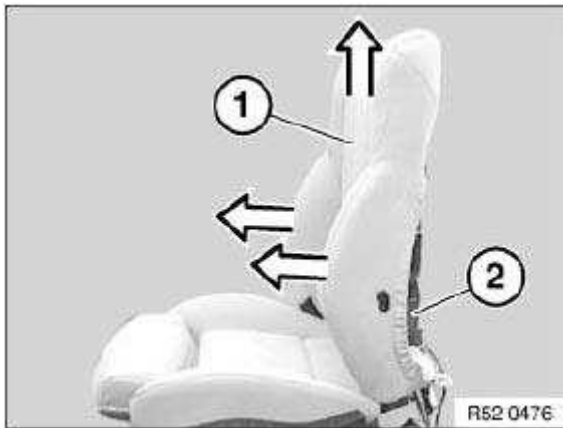


Fig. 125: Pulling Off Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers.

Remove backrest cover (1) from padding.

Remove all remnants of clips from backrest cover (1) and padding.

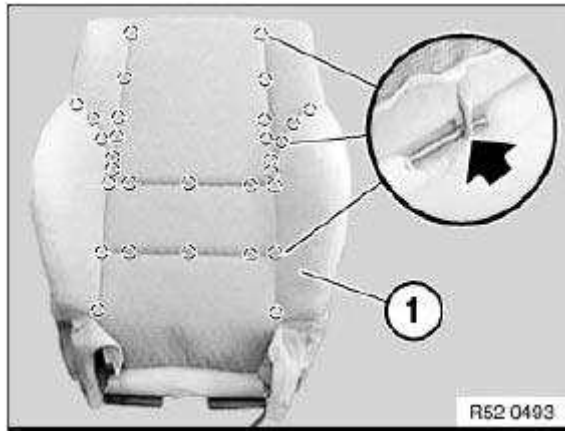


Fig. 126: Removing Clips From Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainer (2) closed with pliers 52 0 050 .

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in backrest cover
5. Backrest cover

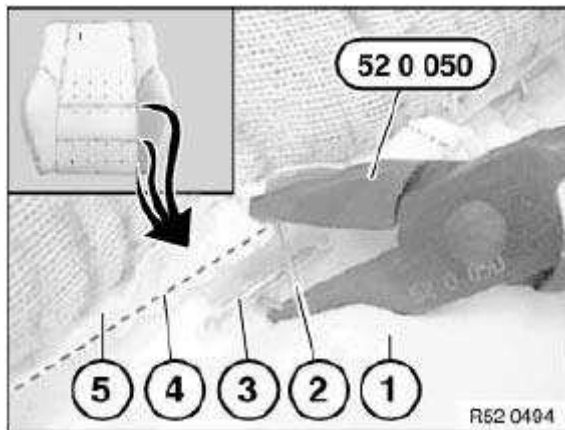


Fig. 127: Bending Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim threads (1) from backrest cover.

- (2) Seat heater cable

Installation:

Push trim threads (1) into new backrest cover.

If necessary, cut into new component.

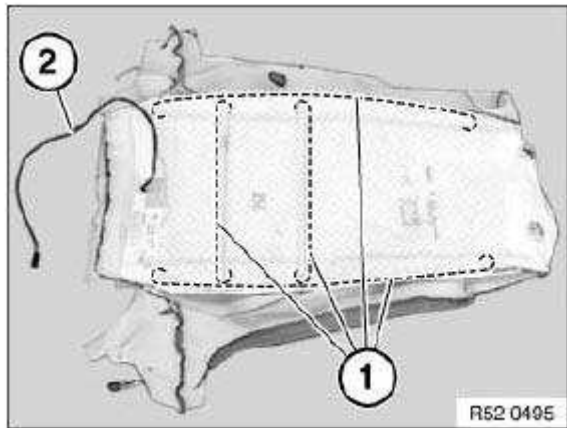


Fig. 128: Identifying Trim Threads

Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking strip of head restraint guide with special tool **00 9 317** .

Installation:

Mount straight front face of head restraint guide towards front.

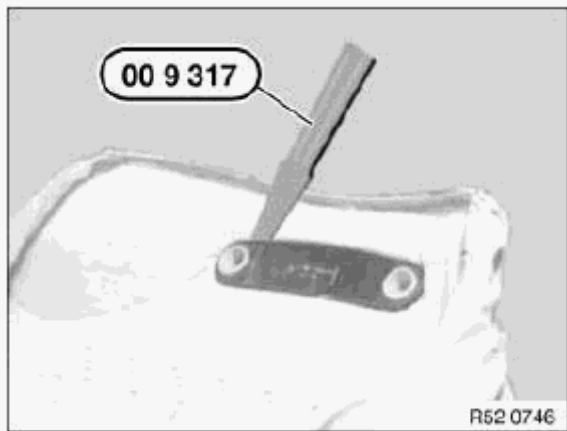


Fig. 129: Levering Out Locking Strip Of Head Restraint Guide Using Special Tool (00 9 317)

Courtesy of BMW OF NORTH AMERICA, INC.

52 16 415 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT

The operation for removing the padding with/without OC3 mat is described in:

- Replacing seat cover for front seat , see 52 13 400 Replacing seat cover for left or right front seat (normal/semi-electric) or 52 14 400 Replacing cover for left or right front seat or 52 16 400 Removing and installing/replacing seat cover for left or right front seat (sport/electric) or 52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort).

52 16 420 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT BACKREST (NORMAL/SEMI-ELECTRIC)

Operation is described in:

Remove **backrest cover** for front seat, see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).

FRONT SEAT, COMFORT

52 13 385 REPLACING GAS CARTRIDGE (PYROACTIVATOR) FOR CRASH-ACTIVE HEAD RESTRAINT ON FRONT SEAT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **crash-active head restraint** , see 52 14 393 Removing and installing/replacing front left or right crash-active head restraint.

IMPORTANT: The pyrotechnical device may be replaced up to 5 times.
Triggering frequency is denoted on the sticker on the head restraint carrier.
Stickers are available as spare parts.

Starting situation:

Head restraint is in the crash position after being triggered.

NOTE: Pyroactivator can only be removed in the triggered state.
The complete crash-active head restraint must be replaced if the event of a head restraint fault signal and an untriggered pyroactivator.



Fig. 130: Identifying Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover:

Raise cover (1) and pull towards rear.

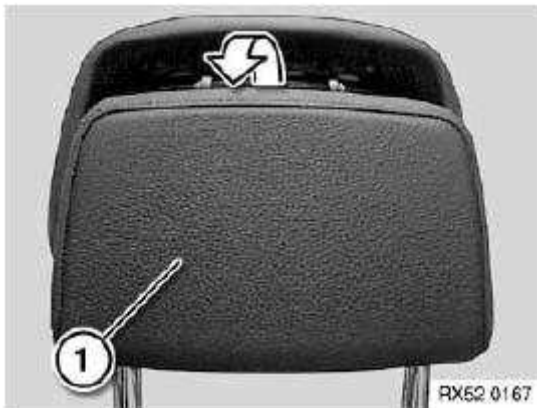


Fig. 131: Raising Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyrotechnical device:

Press together retainer (1) for pyrotechnical device at lugs.

Feed out pyrotechnical device.

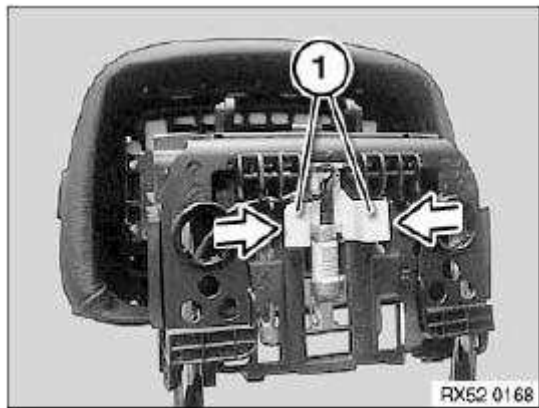


Fig. 132: Pressing Pyrotechnical Device Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Removing pyroactivator:

Pull pyroactivator (2) out of mounting (1) for pyrotechnical device.

Unlock **plug connection** (3) and disconnect.

IMPORTANT: Dispose of plastic element and pyroactivator.

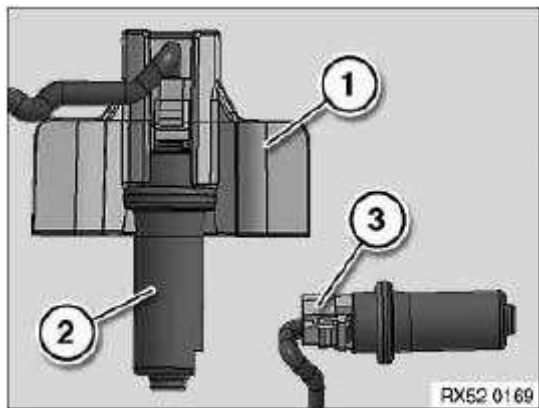


Fig. 133: Identifying Pyroactivator, Mounting And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Procedure for installing pyrotechnical device:

Bringing head restraint together - version without button (MFS):

Pull spring catches apart and push head restraint together.

Maintain position.

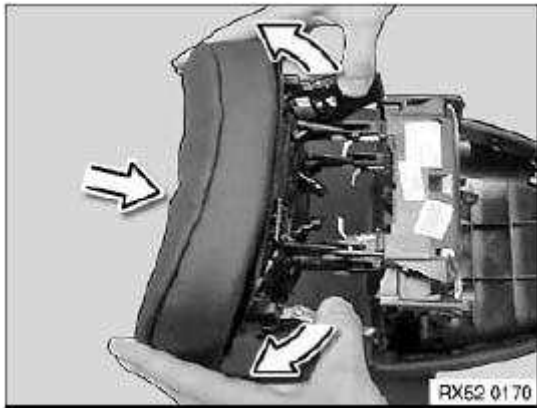


Fig. 134: Pushing Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

Bringing head restraint together - version with button (Basic):

Press button (1) and push head restraint together.

Maintain position.

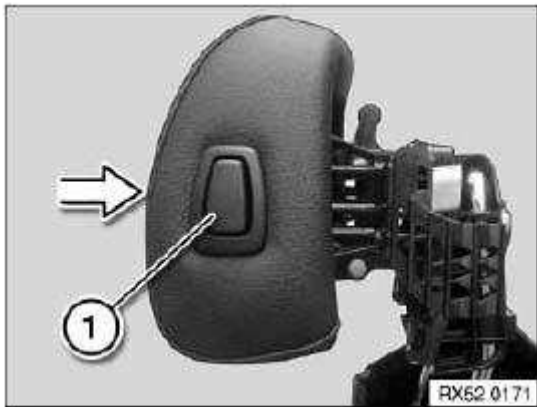


Fig. 135: Pressing Button
Courtesy of BMW OF NORTH AMERICA, INC.

Locking release plate:

Hold pushed-together head restraint in position and push release plate (1) upwards up to stop.

Release plate (1) must audibly snap into place.

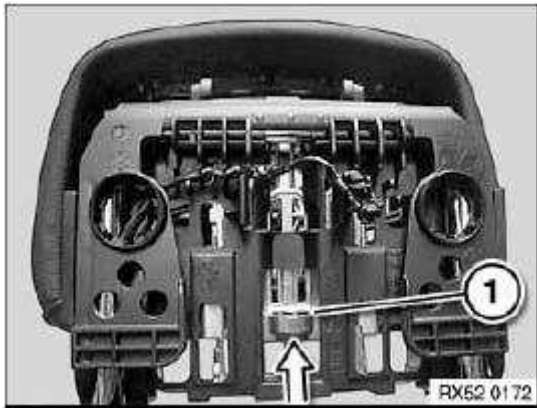


Fig. 136: Pushing Release Plate
 Courtesy of BMW OF NORTH AMERICA, INC.

Checking head restraint lock:

Check end position of release plate (1).

All four springs must be engaged (snapped into place).

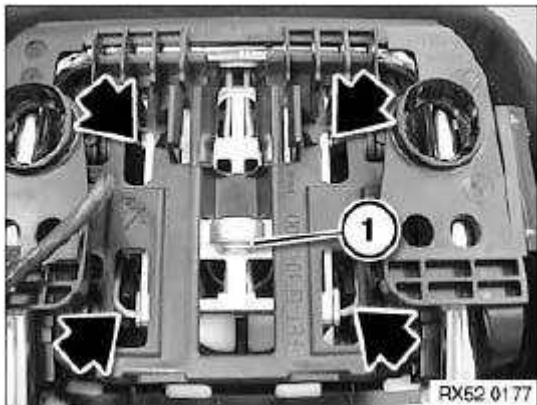


Fig. 137: Identifying Release Plate
 Courtesy of BMW OF NORTH AMERICA, INC.

Replacing pyrotechnical device:

Connect plug (1) to new pyroactivator (2) and lock.

Clip pyroactivator (2) into new mounting (3).

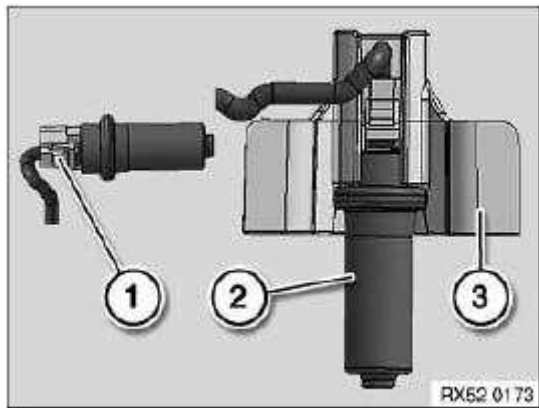


Fig. 138: Identifying Plug, Pyroactivator And Mounting
 Courtesy of BMW OF NORTH AMERICA, INC.

Installing pyrotechnical device:

Press together retainer for pyrotechnical device at lugs.

Insert retainer for pyrotechnical device into release plate and tilt in upward direction.

Retainer for pyrotechnical device must audibly snap into place.

NOTE: Check seating of retaining lugs in retainer.

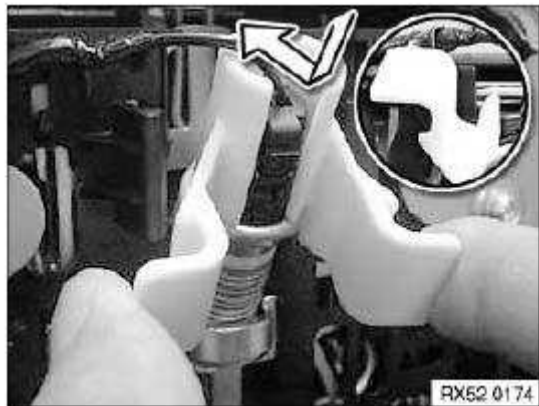


Fig. 139: Pressing Pyrotechnical Device Retainer
 Courtesy of BMW OF NORTH AMERICA, INC.

Laying wiring harness:

Secure wiring harness in carrier section with strain relief.

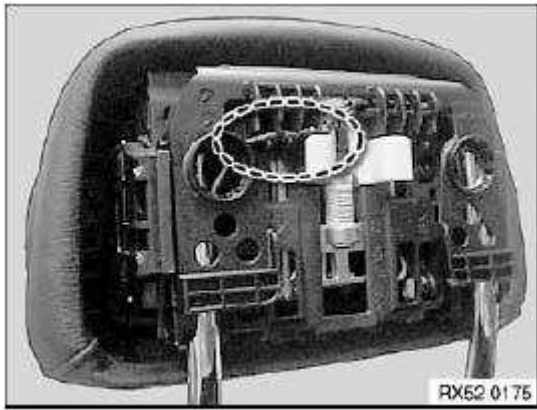


Fig. 140: Identifying Wiring Harness In Carrier Section
Courtesy of BMW OF NORTH AMERICA, INC.

Mounting cover:

Clip cover onto carrier section.

Cover must audibly snap into place.



Fig. 141: Clipping Cover Onto Carrier Section
Courtesy of BMW OF NORTH AMERICA, INC.

52 14 ... REMOVING AND INSTALLING OUTER UPPER RAIL TRIM

Driver's seat only:

NOTE: Version with anchor fitting tensioner.

Feed trim out of seat mechanism:

1. upwards,
2. slide towards rear

Feed out trim.

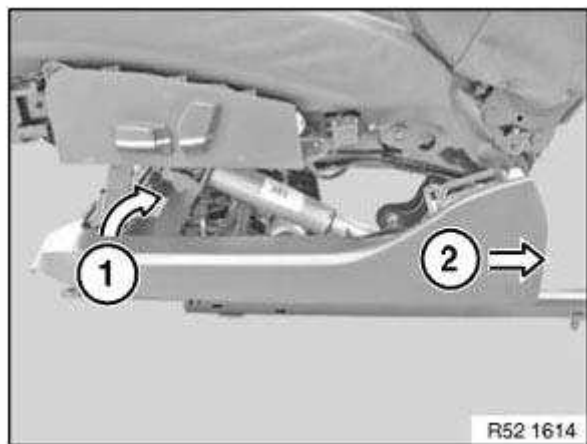


Fig. 142: Feeding Out Trim

Courtesy of BMW OF NORTH AMERICA, INC.

52 16 393 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT CRASH-ACTIVE HEAD RESTRAINT

WARNING: Read and comply with safety regulations for handling airbag modules and pyrotechnical belt pretensioners, see 72 00 ... SAFETY REGULATIONS FOR HANDLING COMPONENTS WITH GAS GENERATORS .
Incorrect handling may result in triggering of the crash-active head restraint and thereby cause injury.

Switch off ignition!

Necessary preliminary tasks:

- Disconnect **battery negative lead** , see 61 20 900 DISCONNECTING AND CONNECTING BATTERY NEGATIVE LEAD .
- Remove **rear panel** , see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

Unfasten plug connection (1) and disconnect.

Feed out wiring harness from head restraint height adjustment and foam material.

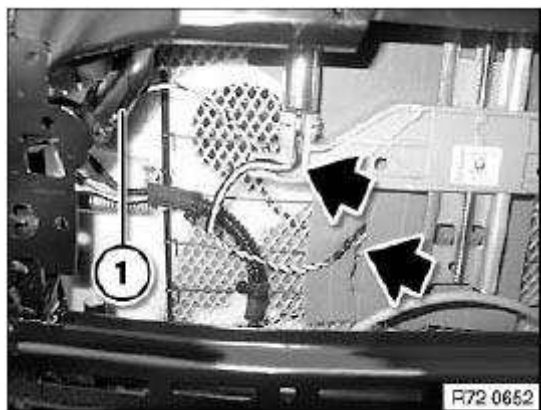


Fig. 143: Disconnecting Plug Connection
 Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking clamps (1)

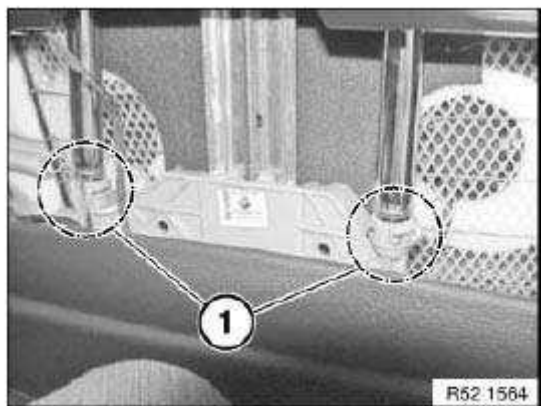


Fig. 144: Identifying Locking Clamps
 Courtesy of BMW OF NORTH AMERICA, INC.

Lift out head restraint.

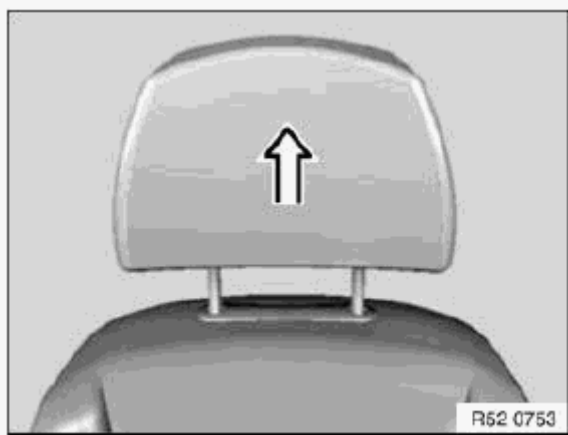


Fig. 145: Lifting Out Head Restraint
Courtesy of BMW OF NORTH AMERICA, INC.

52 17 ... REMOVING AND INSTALLING/REPLACING ALL TRIMS ON LEFT OR RIGHT SEAT RAILS

Trim, top rail, front:

- Move seat backwards and upwards
- Unclip front trim (1) towards top and detach towards top

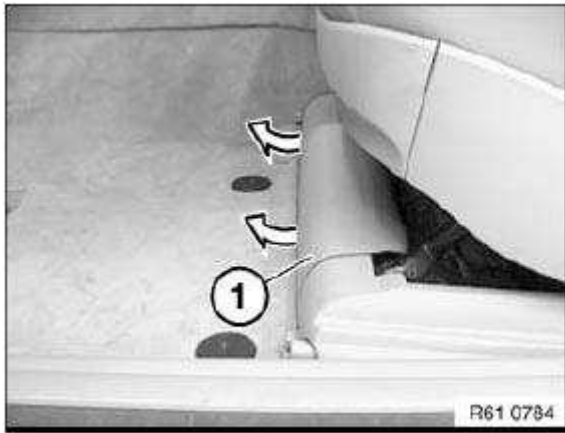


Fig. 146: Removing Trim, Top Rail, Front
Courtesy of BMW OF NORTH AMERICA, INC.

Trim, top rail, outer:

1. Move seat forwards and upwards
2. Unclip front trim towards top and detach towards rear

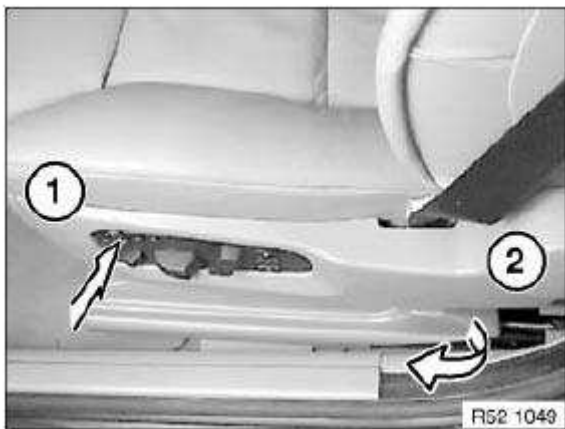


Fig. 147: Removing Trim, Top Rail, Outer
Courtesy of BMW OF NORTH AMERICA, INC.

Trim, bottom rail, front:

1. Move seat backwards
2. Unclip trim tongue towards top, sliding trim towards front slightly
3. Pull inside surface of trim inwards slightly and unclip
4. Detach trim towards front from bottom rail

Installation:

Place trim on bottom rail and slide towards rear to engage, feeding in below trim, top rail, outer.

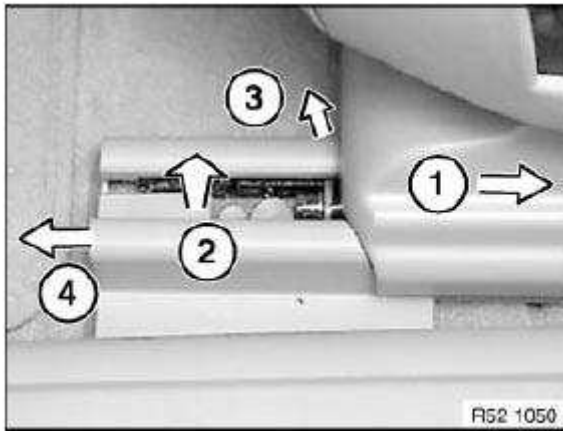


Fig. 148: Removing Trim, Bottom Rail, Front
Courtesy of BMW OF NORTH AMERICA, INC.

Trim, bottom rail, rear:

1. Move seat forwards
2. Unclip trim tongue towards top
3. Pull inside surface of trim inwards
4. Detach trim towards rear from bottom rail

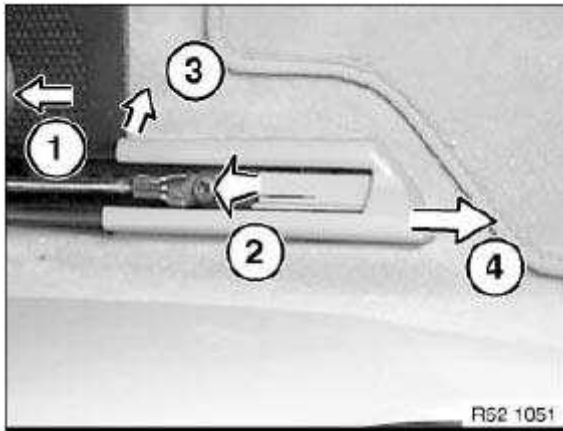


Fig. 149: Removing Trim, Bottom Rail, Rear
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips and hooks must not be damaged.

Make sure trims are exactly seated.

After completing tasks, move seat and make sure that trim does not move.

52 17 ... REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT THIGH SUPPORT

Release screws (1).

Disconnect plug connections (2).

Remove thigh support (3) towards top.

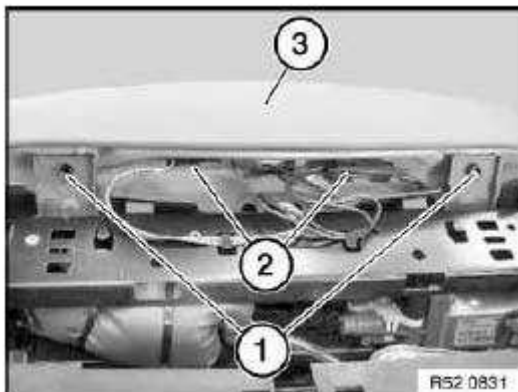


Fig. 150: Identifying Plug Connections, Thigh Support And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, unclip trim (1) towards top and remove.

Installation:

Secure guide pins (2) in seat frame and clip trim (1) into place.

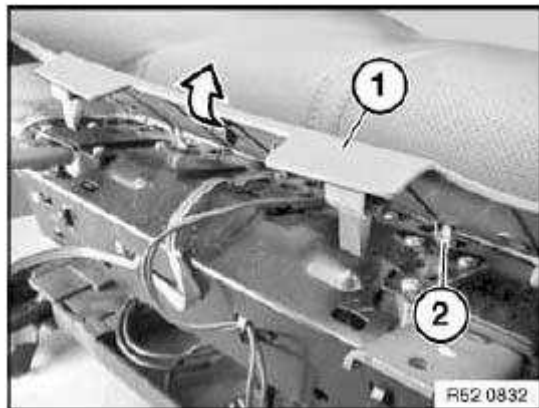


Fig. 151: Unclipping Trim

Courtesy of BMW OF NORTH AMERICA, INC.

52 17 ... REPLACING PADDING FOR FRONT SEAT THIGH SUPPORT

Necessary preliminary tasks:

- Remove **thigh support** , see **52 17 ... Removing and installing/replacing left or right thigh support.**

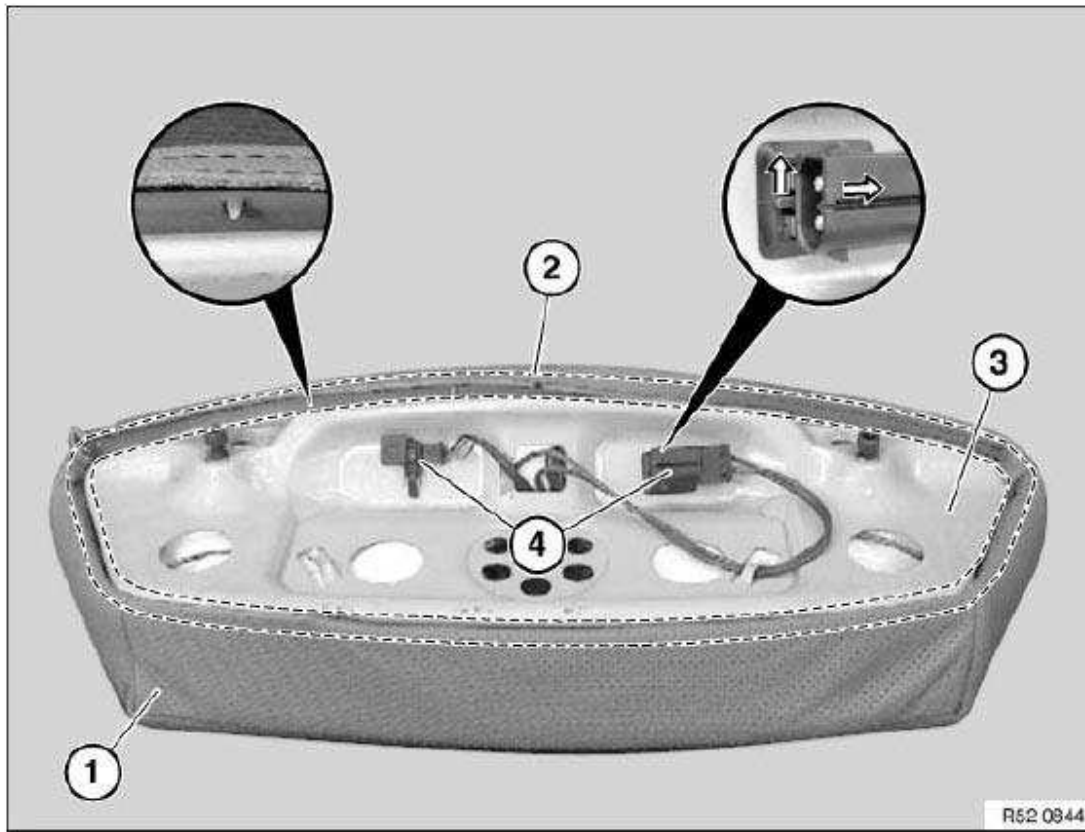


Fig. 152: Identifying Trim, Seat Cover And Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Picture shows versions with air conditioning and seat heating.

Feed out seat cover (1) in area (2).

Installation:

Seat cover (1) is fastened by hooks in trim (3).

Remove plug connections (4) and feed out through trim (3).

Remove trim (3); if necessary, remove padding or cover.

Version with seat heating or air conditioning:

Feed out cable (1) and remove padding (2).

Installation:

Ensure correct cable routing (1).

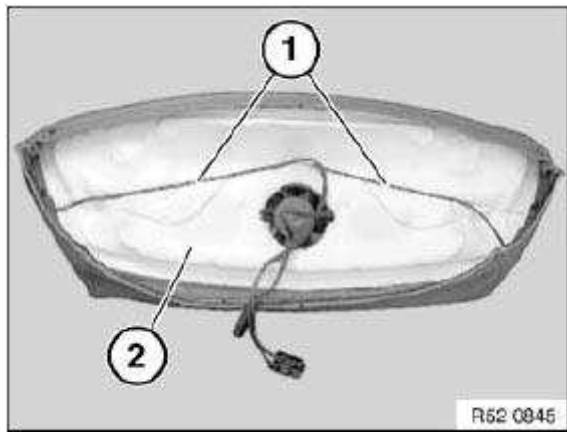


Fig. 153: Identifying Padding And Cable Routing
 Courtesy of BMW OF NORTH AMERICA, INC.

Version with air conditioning:

- Remove separating net (1).
- Lift out fan (2).

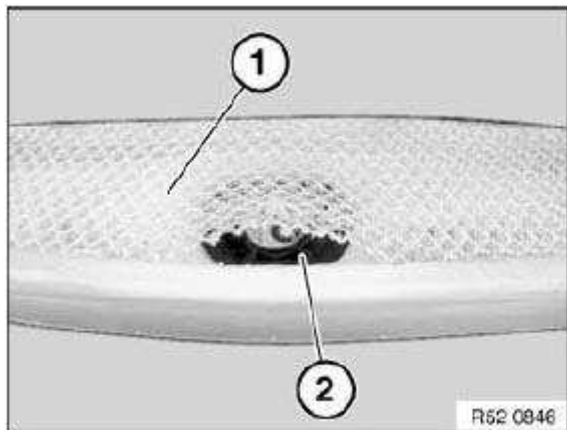


Fig. 154: Identifying Separating Net And Fan
 Courtesy of BMW OF NORTH AMERICA, INC.

52 17 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT SEAT (COMFORT)

This operation is identical to:

Removing and installing **front seat (normal/electric)** , left or right, see **52 14 000 Removing and installing left or right front seat.**

52 17 020 REMOVING AND INSTALLING/REPLACING SEAT FRAME ON LEFT OR RIGHT FRONT SEAT (COMFORT)

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **seat cover** see 52 14 040 Removing and installing/replacing outer cover on left or right front seat or 52 14 041 Removing and installing inner cover on left or right front seat.
- Remove **backrest frame** on front seat, see 52 17 030 Removing and installing/replacing backrest frame on left or right front seat (comfort).
- If necessary, remove **pressure distributor** for active seat, see 52 17 026 Removing and installing/replacing pressure distributor for active driver's seat or 52 17 027 Removing and installing/replacing pressure distributor for active passenger seat.

Remove wiring harness (1) from seat frame (2).

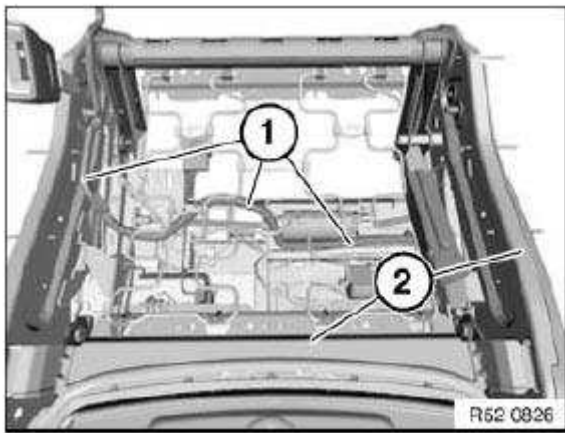


Fig. 155: Identifying Wiring Harness And Seat Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Release rivets (1) on left and right, remove fastening strips (2) on left and right.

Release screws (3).

Tightening torque 52 10 6AZ , see 52 10 FRONT SEATS .

Remove seat frame.

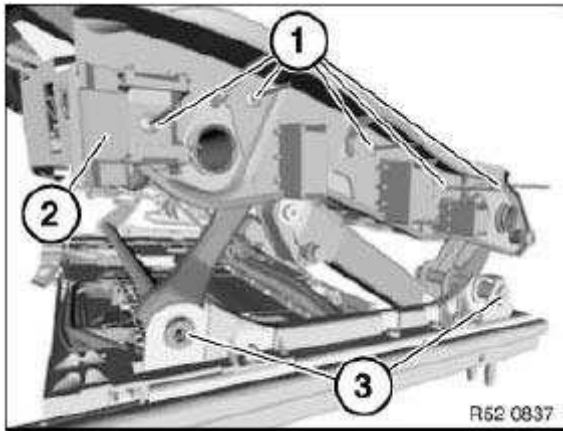


Fig. 156: Identifying Rivets, Fastening Strips And Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The new seat frame part contains all the drives.

52 17 023 REMOVING AND INSTALLING/REPLACING ADJUSTING UNIT FOR THIGH SUPPORT ON LEFT OR RIGHT FRONT SEAT

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **thigh support** , see **52 17 ... Removing and installing/replacing left or right thigh support.**

Move thigh support forwards as far as possible.

Release screws (1).

Detach compressor (2) complete with holder (3) in direction of arrow.

Installation:

Attach holder (3) in area (5).

Disconnect plug connection (4) on drive.

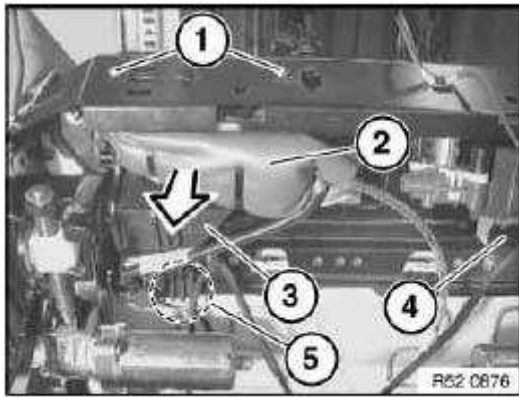


Fig. 157: Detaching Compressor With Holder
 Courtesy of BMW OF NORTH AMERICA, INC.

Release screws in areas (1).

Feed out adjusting unit (2) complete with drive in direction of arrow and remove.

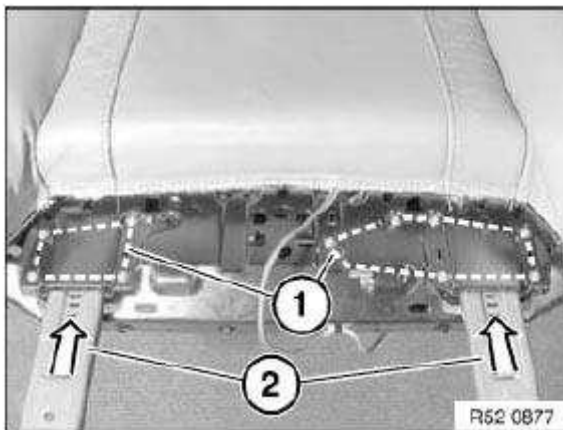


Fig. 158: Feeding Out Adjusting Unit
 Courtesy of BMW OF NORTH AMERICA, INC.

52 17 026 REMOVING AND INSTALLING/REPLACING PRESSURE DISTRIBUTOR FOR ACTIVE DRIVER'S SEAT

Necessary preliminary tasks:

- Remove seat cover with padding for driver's seat , see 52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort).

Unscrew left and right nuts (1).

Remove carrier plate towards front from seat mechanism.

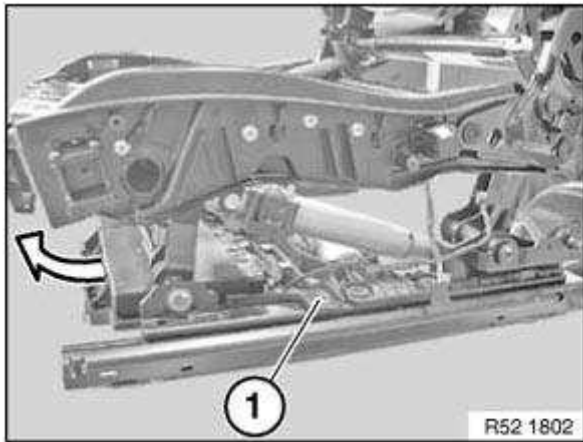


Fig. 159: Removing Carrier Plate

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Pressure distributor and pneumatic pockets form a single unit and can only be replaced as a single component.

Unlock plug connection (1) on drive and disconnect.

Unlock plug connection (2) on control unit and disconnect.

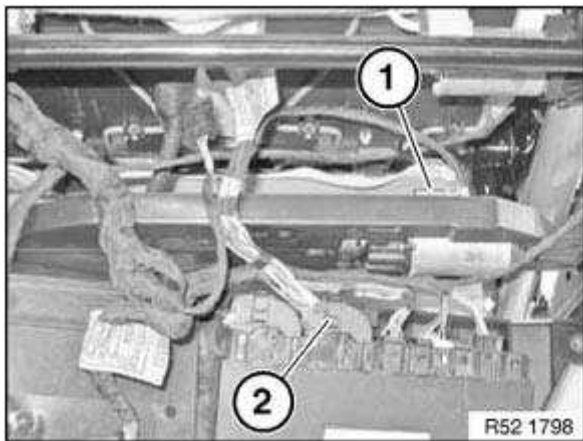


Fig. 160: Identifying Plug Connection

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip pressure distributor (1) in marked area.

Installation:

Replace faulty clips.

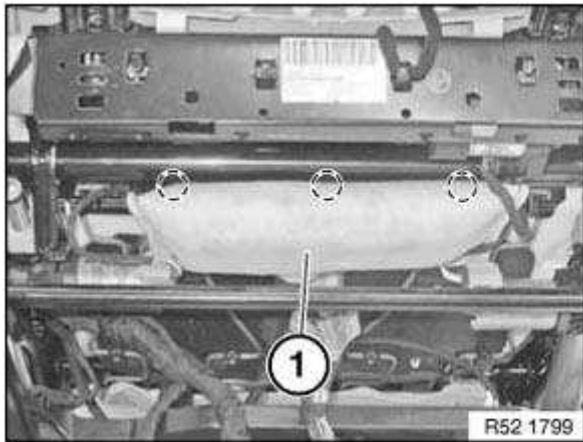


Fig. 161: Identifying Pressure Distributor Clips
 Courtesy of BMW OF NORTH AMERICA, INC.

Unclip pneumatic pockets (1) with supports on left and right from flex mat.

Feed pneumatic pockets (1) through flex mat towards bottom.

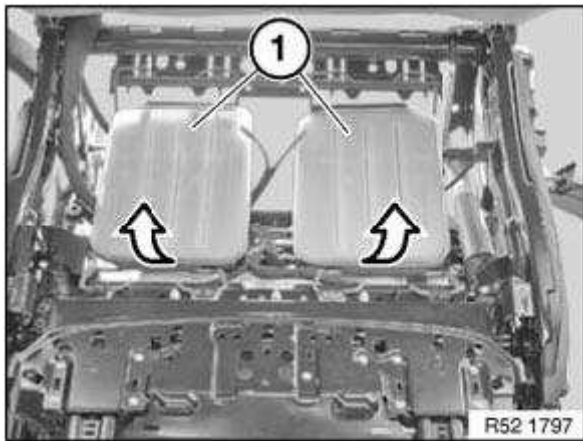


Fig. 162: Unclipping Pneumatic Pockets
 Courtesy of BMW OF NORTH AMERICA, INC.

Open quick connector (1).

Feed out hose through fleece mat and backrest frame.

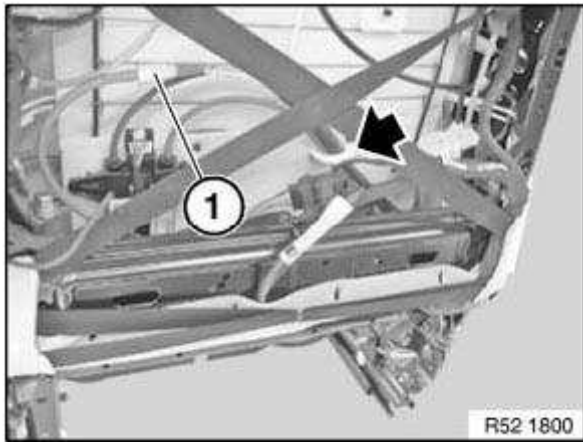


Fig. 163: Identifying Quick Connector
 Courtesy of BMW OF NORTH AMERICA, INC.

NOTE:

- Carry out operational check.

52 17 027 REMOVING AND INSTALLING/REPLACING PRESSURE DISTRIBUTOR FOR ACTIVE PASSENGER SEAT

Necessary preliminary tasks:

- Remove **seat cover with padding for passenger seat** , see **52 17 400 Removing and installing/replacing seat cover for left or right front seat (comfort)**.

Unscrew left and right nuts (1).

Remove carrier plate towards front from seat mechanism.

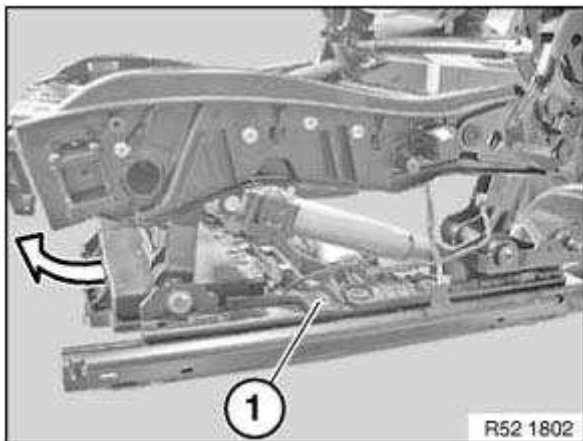


Fig. 164: Removing Carrier Plate
 Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Pressure distributor and pneumatic pockets form a single unit and can only be replaced as a single component.

Unlock plug connection (1) on drive and disconnect.

Unlock plug connection (2) on control unit and disconnect.

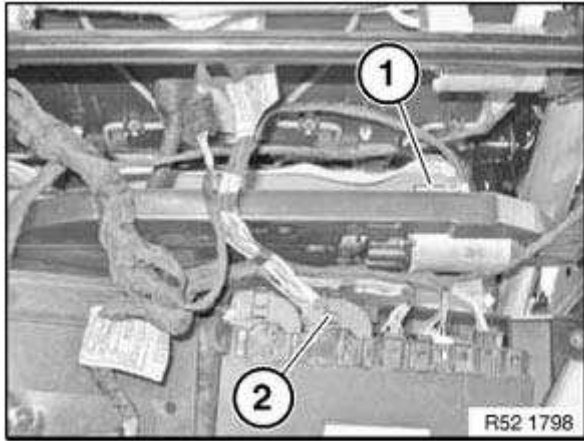


Fig. 165: Identifying Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip pressure distributor (1) in marked area.

Installation:

Replace faulty clips.

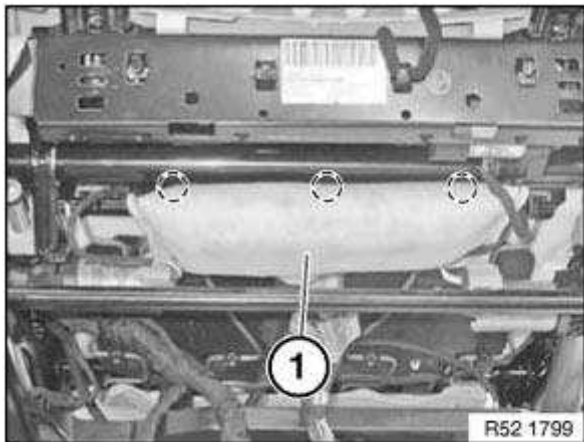


Fig. 166: Identifying Pressure Distributor Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip pneumatic pockets (1) with supports on left and right from flex mat.

Feed pneumatic pockets (1) through flex mat towards bottom.

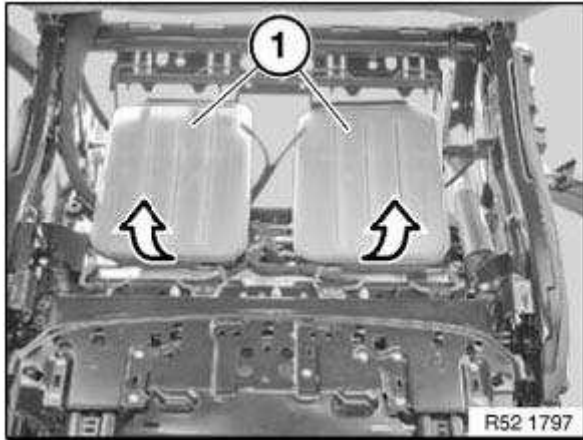


Fig. 167: Unclipping Pneumatic Pockets
Courtesy of BMW OF NORTH AMERICA, INC.

Open quick connector (1).

Feed out hose through fleece mat and backrest frame.

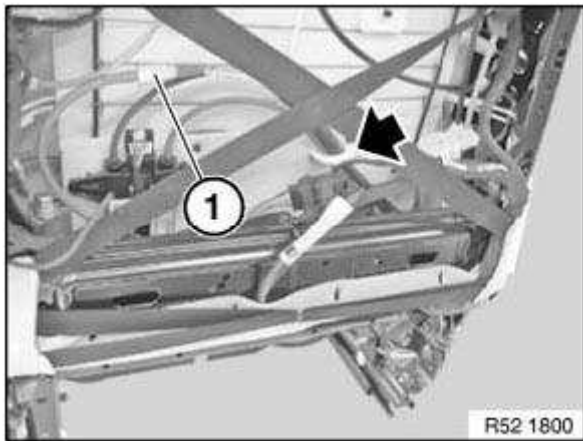


Fig. 168: Identifying Quick Connector
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE:

- Carry out operational check.

52 17 028 REMOVING AND INSTALLING/REPLACING PUMP FOR PRESSURE DISTRIBUTOR

Necessary preliminary tasks:

- Remove **rear panel** on front seat backrest, see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**

- Partially remove **backrest cover** , see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).

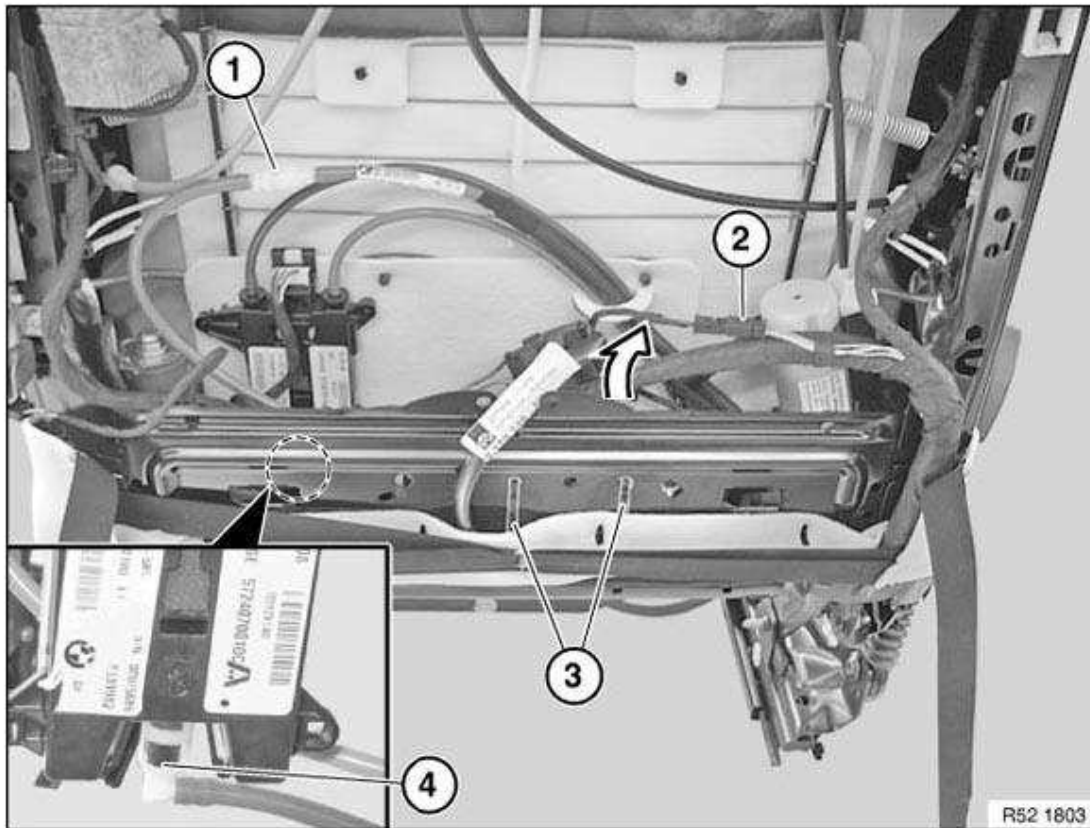


Fig. 169: Lifting Out Pump For Pressure Distributor
Courtesy of BMW OF NORTH AMERICA, INC.

Unlock quick-connect coupling (1) and disconnect.

Unfasten plug connection (2) and disconnect.

Cut open cable tie (3).

Installation:

Replace faulty cable ties.

Unlock quick-connect coupling (4) and disconnect.

Lift out pump for pressure distributor.

NOTE: Check function.

FRONT SEAT (COMFORT)

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **backrest cover** for front seat, see **52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).**

Release all cable ties on wiring harness (1).

Disconnect all marked plug connections.

Feed through wiring harness (1) at bottom right on backrest frame.

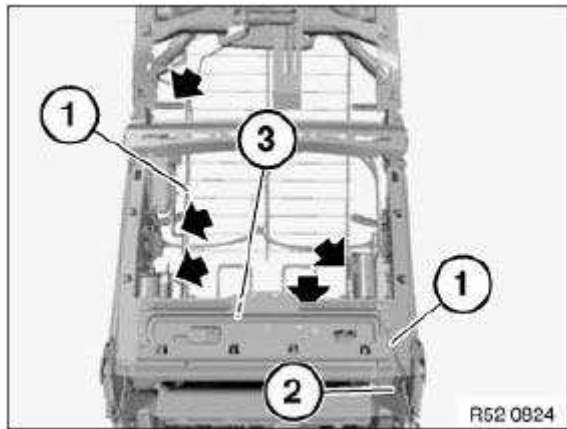


Fig. 170: Identifying Wiring Harness
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip left and right clips (1).

Unhook seat covers (2) on left and right.

Release left and right screws (3).

Tightening torque **52 10 2AZ** , see **52 10 FRONT SEATS** .

If necessary, remove lumbar cushion with drive and valve block.

Remove backrest frame.

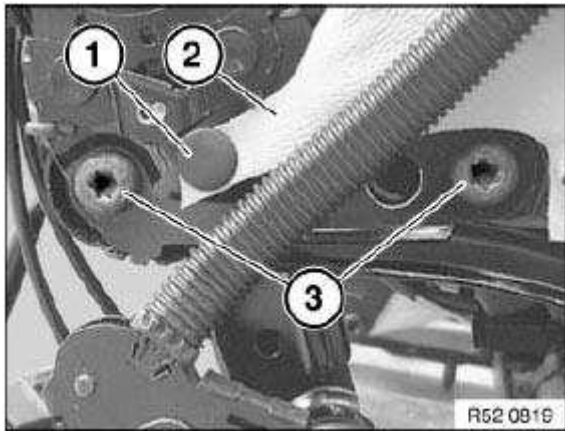


Fig. 171: Identifying Seat Covers, Clips And Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The new backrest frame part contains all the drives.

52 17 034 REMOVING AND INSTALLING/REPLACING SHAFT FOR HEAD RESTRAINT ADJUSTMENT

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **both rear panels** , see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**
- Remove **inner cover** , see **52 14 041 Removing and installing inner cover on left or right front seat.**

Bend shaft (1) in direction of arrow.

Pull shaft (1) out of gear (2) and remove.

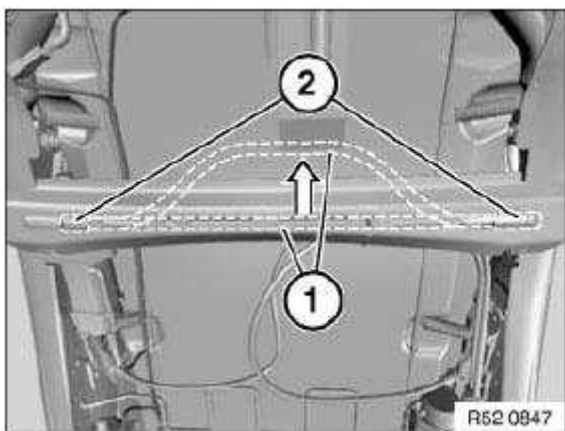


Fig. 172: Removing Shaft Out Of Gear

Courtesy of BMW OF NORTH AMERICA, INC.

52 17 035 REMOVING AND INSTALLING/REPLACING GEARING FOR HEAD RESTRAINT ADJUSTMENT

Necessary preliminary tasks:

- Remove **shaft** for head restraint adjustment, see 52 17 034 Removing and installing/replacing shaft for head restraint adjustment.

Release screws (4) on left and right.

Tightening torque: **52 10 10AZ** , see 52 10 FRONT SEATS .

Remove retainer (1) on left and right.

Remove gearing (2) on left and right straight towards front.

Installation:

To ensure identical adjustment of gearings (2), carry out following work step on both gearings:

- Unscrew component (5) until threaded rod (6) is flush with edge (3).

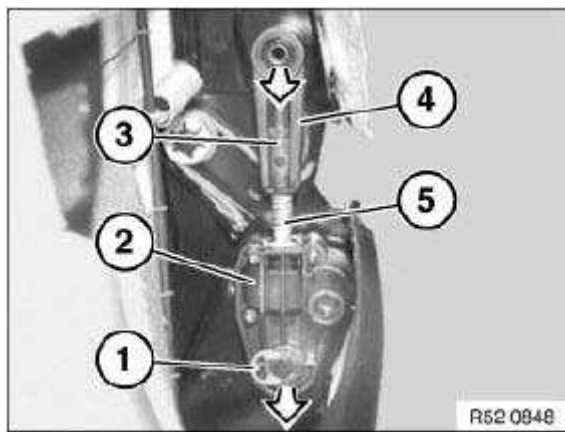


Fig. 173: Removing Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

52 17 040 REMOVING AND INSTALLING/REPLACING OUTER COVER ON LEFT OR RIGHT FRONT SEAT

NOTE: Operation is identical to:

- Removing and installing/replacing outer cover on left or right front seat , see 52 13 040 Removing and installing/replacing outer cover on left or

right front seat (normal/semi-electric).

52 17 041 REMOVING AND INSTALLING/REPLACING INNER COVER ON LEFT OR RIGHT FRONT SEAT (COMFORT)

This operation is identical to:

Replacing **cover on inner front seat** (normal/electric), see **52 14 041 Removing and installing inner cover on left or right front seat.**

52 17 050 REPLACING LUMBAR CUSHION ON LEFT OR RIGHT FRONT SEAT (COMFORT)

This operation is identical to:

Replacing **lumbar cushion on front seat** (normal/electric), see **52 14 050 Replacing lumbar cushion on front left or right seat.**

52 17 054 REMOVING AND INSTALLING/REPLACING ADJUSTING UNIT FOR BACKREST WIDTH ADJUSTMENT ON LEFT OR RIGHT FRONT SEAT

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat.**
- Remove **both rear panels** on front seat backrest, see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.**
- Remove **inner cover** on front seat, see **52 14 041 Removing and installing inner cover on left or right front seat.**
- Remove **backrest cover** for front seat, see **52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).**

Release cable tie (1).

Installation:

Lay cables (3) without kinks.

Disconnect plug connection (2) on drive.

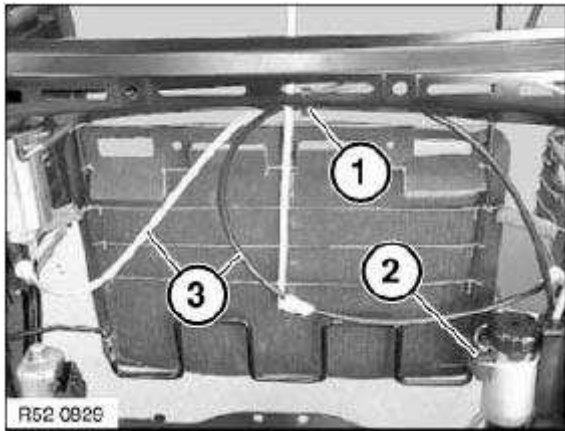


Fig. 174: Identifying Cable Tie And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Release rivets (1) on left and right and remove adjusting elements (3).

Release rivets (2) for drive.

Remove complete adjusting unit.

NOTE: Adjusting element (3), cables and drive form a single unit and can only be replaced completely.

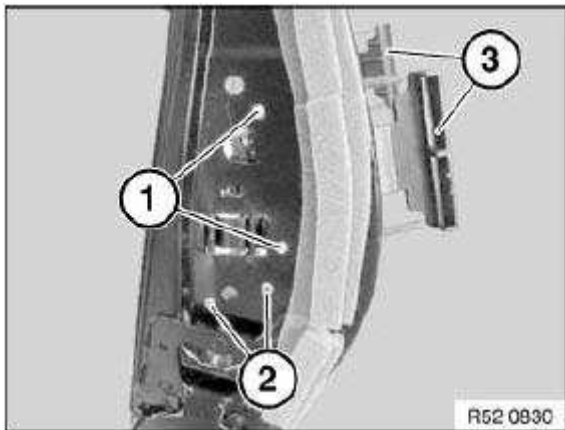


Fig. 175: Identifying Rivets And Adjusting Element
Courtesy of BMW OF NORTH AMERICA, INC.

52 17 060 REMOVING AND INSTALLING/REPLACING VALVE HOUSING FOR LUMBAR CUSHION (COMFORT)

This operation is identical to:

Replacing valve housing for lumbar cushion (normal/electric), see **52 14 060 Removing and**

installing/replacing valve housing for left or right front lumbar support (normal/electric).

52 17 200 REMOVING AND INSTALLING/REPLACING UPPER REAR PANEL ON LEFT OR RIGHT FRONT SEAT BACKREST

This operation is described in:

Remove **both rear panels on front seat backrest**, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

52 17 202 REMOVING AND INSTALLING/REPLACING LOWER REAR PANEL ON LEFT OR RIGHT FRONT SEAT BACKREST

This operation is described in:

Remove **both rear panels on front seat backrest**, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.

52 17 205 REMOVING AND INSTALLING/REPLACING BOTH REAR PANELS ON LEFT OR RIGHT FRONT SEAT BACKREST

Operation is shown on the left seat. When removing from the right seat, transpose the pull and striking sides accordingly.

Rear panel upper section:

1. Grip between rear panel and backrest cover on tunnel side until clip can be felt (do not pull).
2. At same time, firmly punch towards middle of seat on inner side (tunnel side) at top.

Upper retainers spring out of seat guide.

3. Pull upper rear panel up out of lower guides.

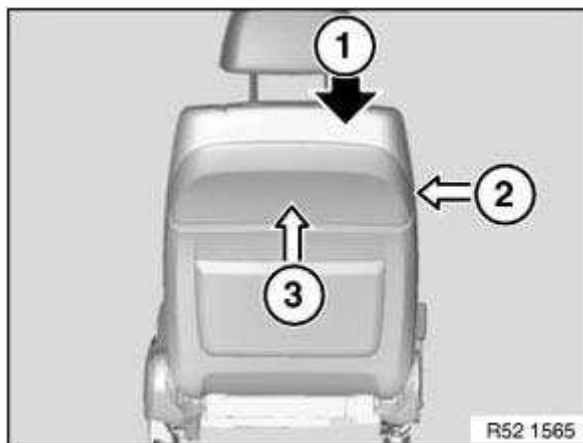


Fig. 176: Pulling Panel Up Out Of Lower Guides

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE:

1. Retainer
2. Guide
3. Upper rear panel

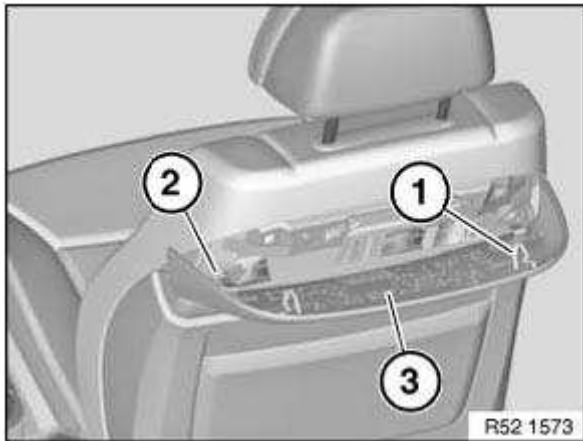


Fig. 177: Identifying Upper Rear Panel, Guide And Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Rear panel trim lower section:

1. Grip between rear panel and backrest cover on tunnel side until clip can be felt (do not pull).
2. At same time, firmly punch towards middle of seat on inner side (tunnel side) at top.

Upper retainers spring out of seat guide.

3. Pull lower rear panel up out of lower guides

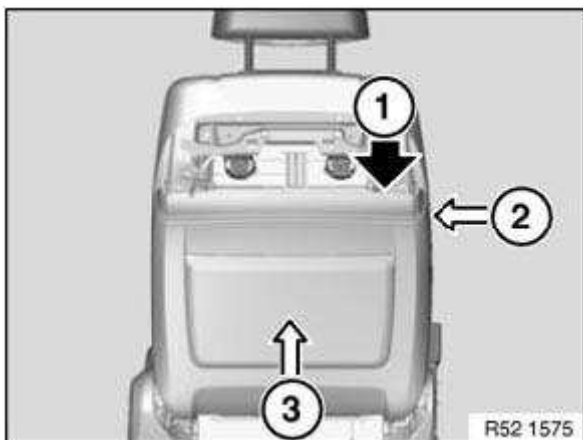


Fig. 178: Pulling Lower Rear Panel Up Out Of Lower Guides

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip springs (1) on left and right.

Remove lower rear panel (3) upwards out of guide (2).

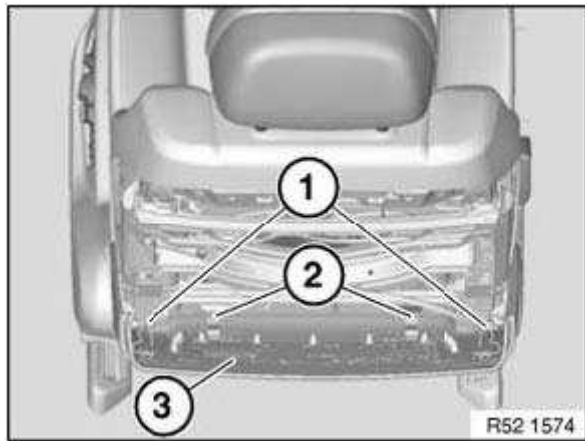


Fig. 179: Identifying Lower Rear Panel, Guide And Springs
Courtesy of BMW OF NORTH AMERICA, INC.

52 17 400 REMOVING AND INSTALLING/REPLACING SEAT COVER FOR LEFT OR RIGHT FRONT SEAT (COMFORT)

Special tools required:

- **00 9 317** , see **00 9 317 TRIM PANEL WEDGE** .
- **52 0 050** , see **52 0 050 PLIERS** .

Necessary preliminary tasks:

- Remove **front seat** , see **52 14 000 Removing and installing left or right front seat**.
- Remove **both rear panels** on front seat backrest, see **52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest**.
- Remove **inner cover** on front seat, see **52 14 041 Removing and installing inner cover on left or right front seat**.
- Remove **thigh support** , see **52 17 ... Removing and installing/replacing left or right thigh support**.
- Remove **switch combination** for seat adjustment

Driver's and front passenger seat US/CDN (with OC3 mat):

If seat cover is defective, seat cover, padding and OC3 mat must be replaced completely.

The same applies to a defective OC3 mat or padding; both parts can only be replaced together with the seat cover.

New seat cover is supplied with padding, OC3 mat and if necessary seat heating.

After fitting, the OC3 mat must be enabled with the BMW programming system.

Individual parts not available.

Enabling seat occupancy detector (OC3 mat):

- Connect **BMW programming system**
- Code airbag control unit
- Clear fault memory if necessary

Unclip cover (1) on front seat.

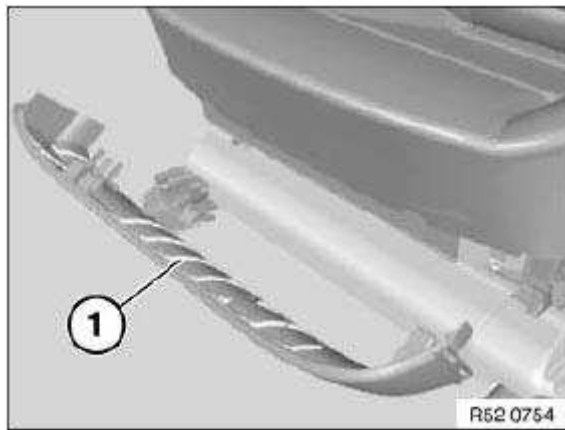


Fig. 180: Identifying Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip trim (1) for thigh support carrier with special tool **00 9 317** .

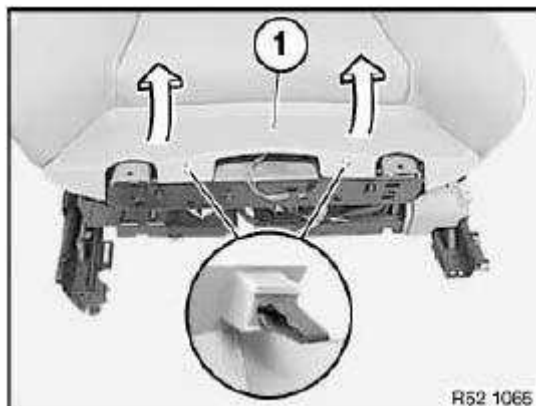


Fig. 181: Unclipping Trim

Courtesy of BMW OF NORTH AMERICA, INC.

Release retainers in area (1).

Detach seat cover in area (2) on left and right.

Remove cable (3).

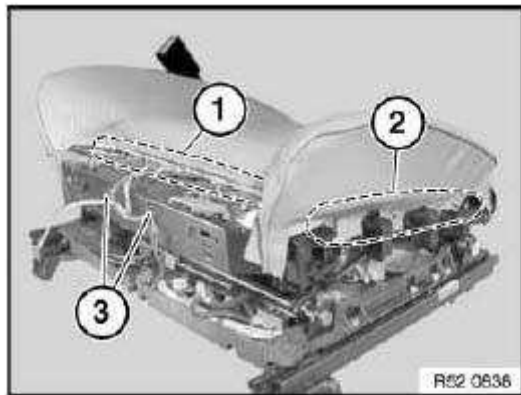


Fig. 182: Identifying Retainers And Seat Cover Area
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook seat cover (1) in area (2).

Disconnect plug connection (3).

Remove seat cover (1) complete with support.

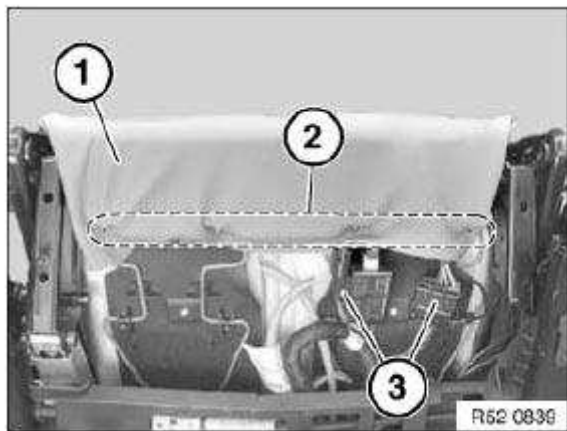


Fig. 183: Identifying Seat Cover Unhook Area
Courtesy of BMW OF NORTH AMERICA, INC.

Detach all retainers in side area from longitudinal wires (1).

Pull trim wires (1) forward out of seat cover.

Carefully fold back seat cover and release retainers from cross-wires (2).

Remove seat cover from padding.

IMPORTANT: Remove all remnants of clips from seat cover and padding.

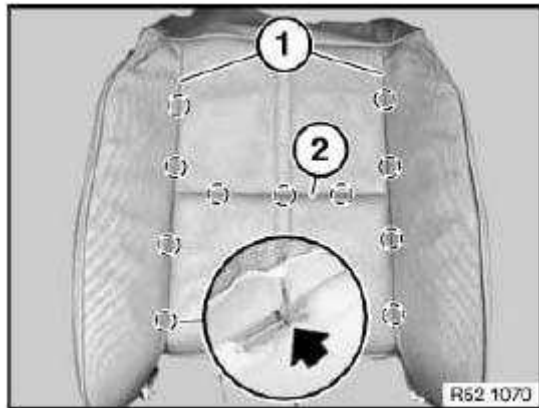


Fig. 184: Removing Clips From Seat Cover And Padding
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bend new retainers closed with pliers 52 0 050 .

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim thread in cover
5. Seat cover

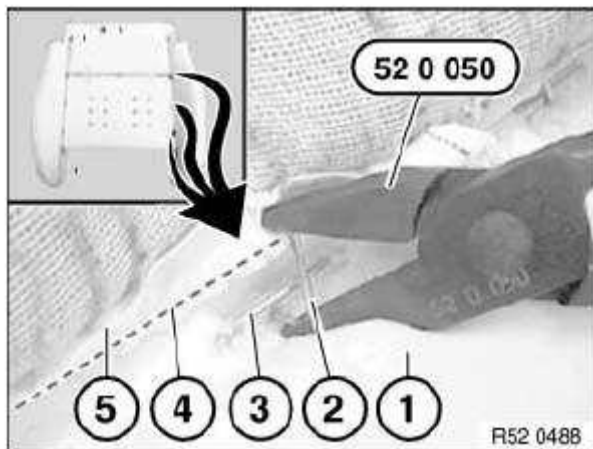


Fig. 185: Bending Retainers

Courtesy of BMW OF NORTH AMERICA, INC.

Replacing seat cover

Pull trim threads (1) out of seat cover.

Installation:

Slide trim threads (1) into new seat cover. If necessary, cut mounting for trim threads.

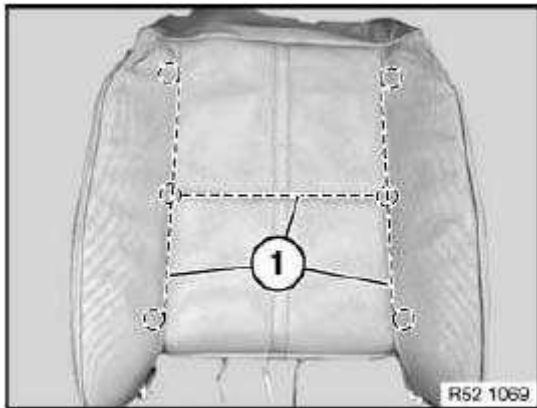


Fig. 186: Identifying Trim Threads

Courtesy of BMW OF NORTH AMERICA, INC.

52 17 405 REPLACING BACKREST COVER FOR LEFT OR RIGHT FRONT SEAT (COMFORT)

Special tools required:

- 00 9 317 , see 00 9 317 TRIM PANEL WEDGE .
- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **front seat** , see 52 14 000 Removing and installing left or right front seat.
- Remove **both rear panels** on front seat backrest, see 52 14 198 Removing and installing or replacing rear panel on left or right front seat backrest.
- Remove **inner cover** on front seat, see 52 14 041 Removing and installing inner cover on left or right front seat.

Unfasten plug connection (1) and disconnect.

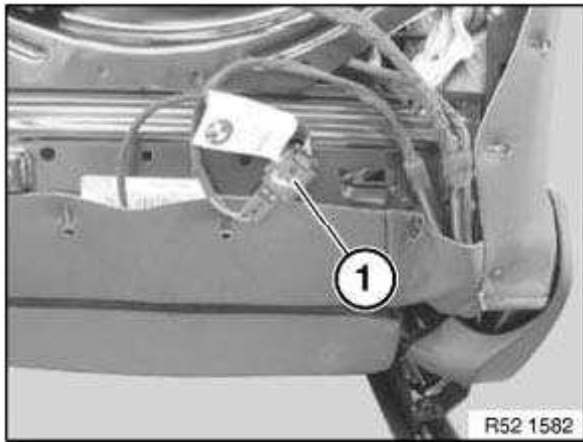


Fig. 187: Identifying Plug Connection
 Courtesy of BMW OF NORTH AMERICA, INC.

Disengage clamping bands (1).

Release clips (2).

Installation:

Bend new retainers closed with pliers 52 0 050 .

Detach backrest cover at bottom from backrest frame.

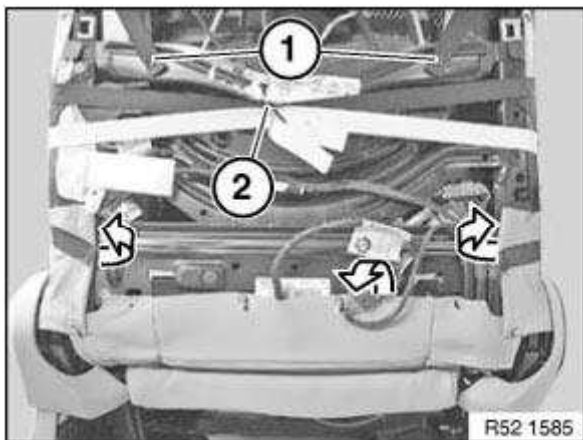


Fig. 188: Detaching Backrest Cover At Bottom From Backrest Frame
 Courtesy of BMW OF NORTH AMERICA, INC.

Detach backrest cover at top from backrest frame.

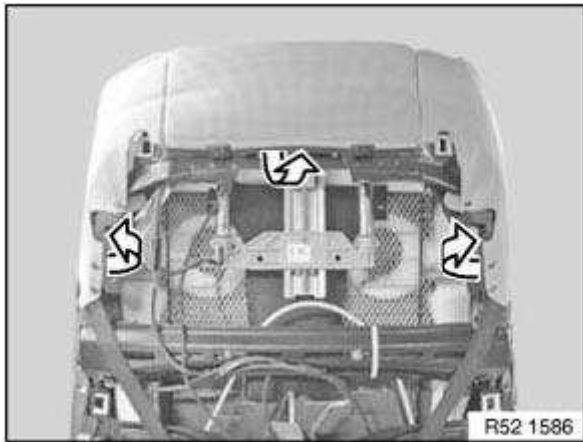


Fig. 189: Detaching Backrest Cover At Top From Backrest Frame
 Courtesy of BMW OF NORTH AMERICA, INC.

For A/C optional extra only:

Loosen retainers (1).

Installation:

Bend new retainers closed with pliers 52 0 050 .

Unlock and disconnect plug connection (2).

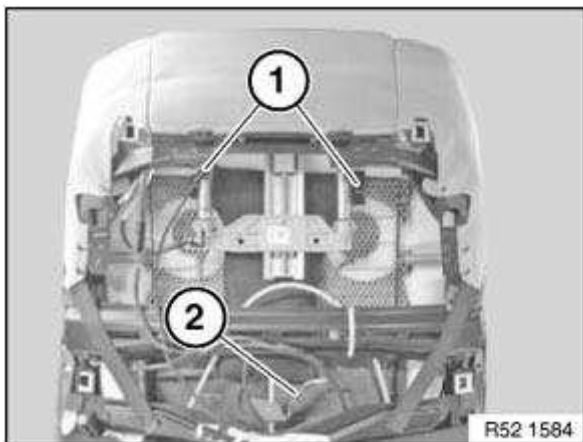


Fig. 190: Identifying Plug Connections And Retainers
 Courtesy of BMW OF NORTH AMERICA, INC.

Remove backrest cover (2) complete with padding towards front.

Installation:

Adjusting unit (1) must be secured on left and right in opening of padding.

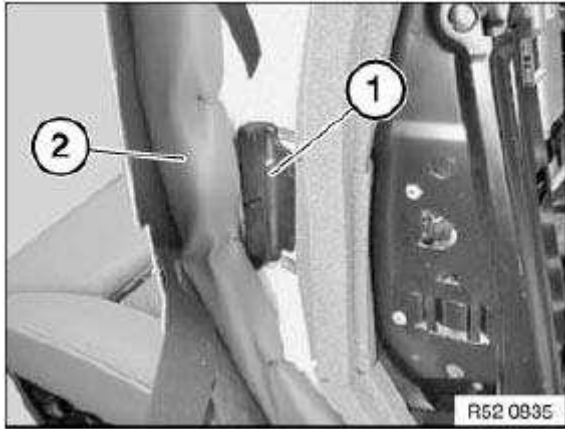


Fig. 191: Identifying Backrest Cover And Adjusting Unit
Courtesy of BMW OF NORTH AMERICA, INC.

Detach all retainers in areas (1).

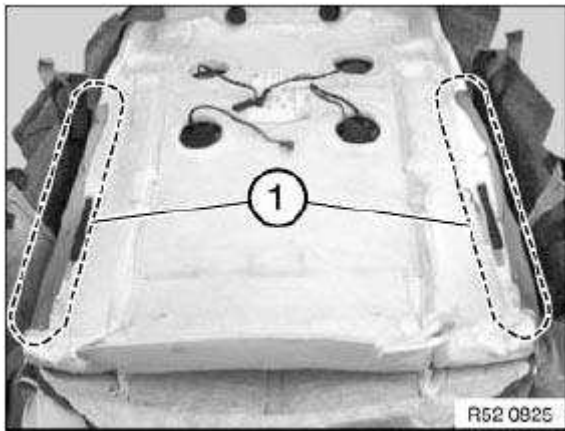


Fig. 192: Identifying Retainers Areas
Courtesy of BMW OF NORTH AMERICA, INC.

Release all retainers.

Installation:

Bend new retainers closed with pliers 52 0 050 .

Remove backrest cover (1) from padding.

Remove all remnants of clips from backrest cover (1) and padding.

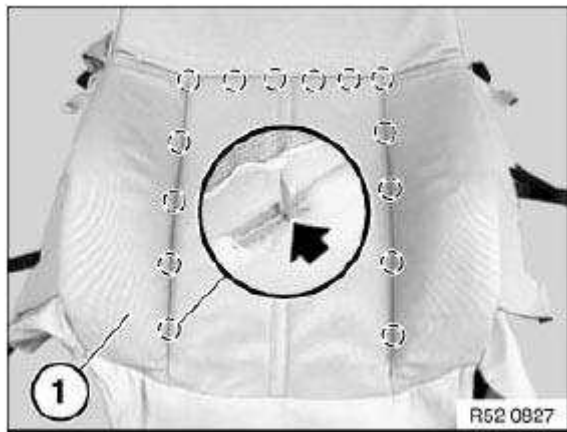


Fig. 193: Removing Backrest Cover From Padding
Courtesy of BMW OF NORTH AMERICA, INC.

Pull trim threads (1) out of backrest cover.

Installation:

Push trim threads (1) into new backrest cover.

If necessary, cut into new component.

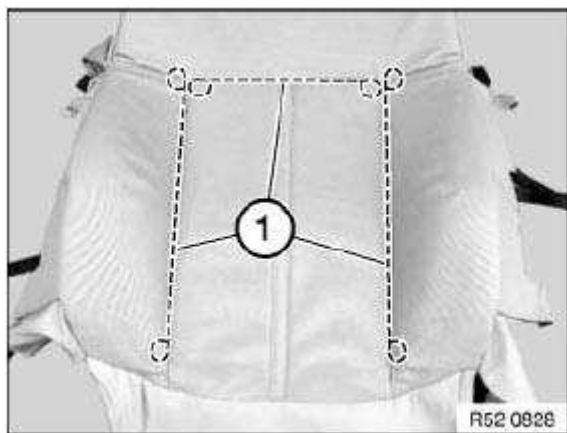


Fig. 194: Pulling Trim Threads Out Of Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out locking strip of head restraint guide with plastic wedge **00 9 317** .

Installation:

Mount straight front face of head restraint guide towards front.

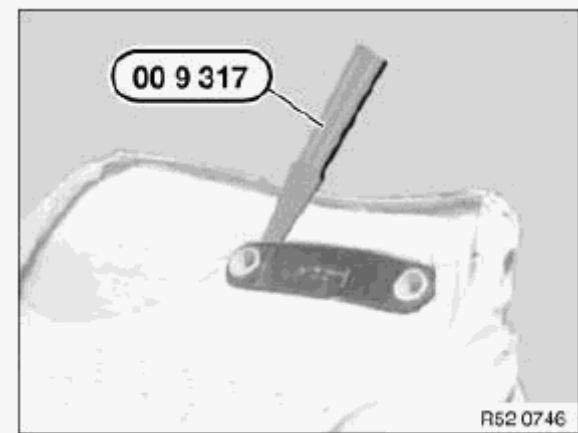


Fig. 195: Levering Out Locking Strip Of Head Restraint Guide Using Special Tool (00 9 317)
Courtesy of BMW OF NORTH AMERICA, INC.

52 17 415 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT (COMFORT)

The operation for removing the padding with/without OC3 mat is described in:

- Replacing seat cover for front seat , see [52 13 400 Replacing seat cover for left or right front seat \(normal/semi-electric\)](#) or [52 14 400 Replacing cover for left or right front seat](#) or [52 16 400 Removing and installing/replacing seat cover for left or right front seat \(sport/electric\)](#) or [52 17 400 Removing and installing/replacing seat cover for left or right front seat \(comfort\)](#).
- Removing sensor mat , see [65 77 605 Replacing sensor mat for passenger seat occupancy detector](#).

Remove sensor mat (1).

Seat with air conditioning:

Remove dividing net (2).

Remove fan (3) from support (4).

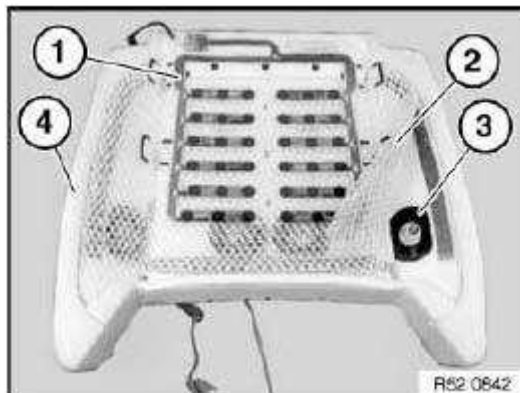


Fig. 196: Identifying Dividing Net, Sensor Mat, Fan And Support

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure fans have correct cable routing (1).

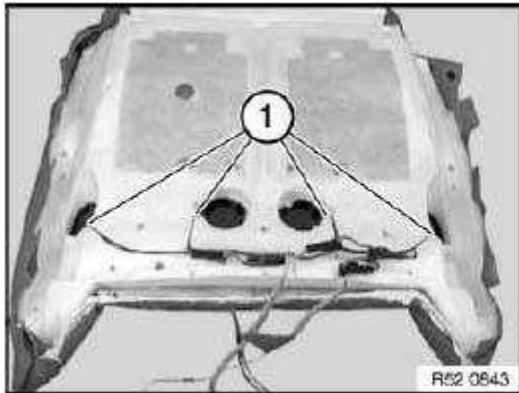


Fig. 197: Identifying Cable Routing

Courtesy of BMW OF NORTH AMERICA, INC.

52 17 420 REPLACING PADDING FOR LEFT OR RIGHT FRONT SEAT BACKREST (COMFORT)

Necessary preliminary tasks:

- Remove **backrest cover** , see **52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).**

Remove dividing net (1) towards top.

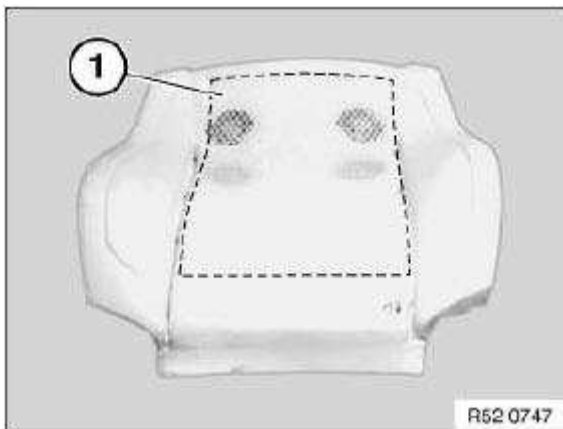


Fig. 198: Identifying Dividing Net

Courtesy of BMW OF NORTH AMERICA, INC.

Remove fan (1) towards top.

Installation:

Make sure fans have correct cable routing (2) (cables point to each other).

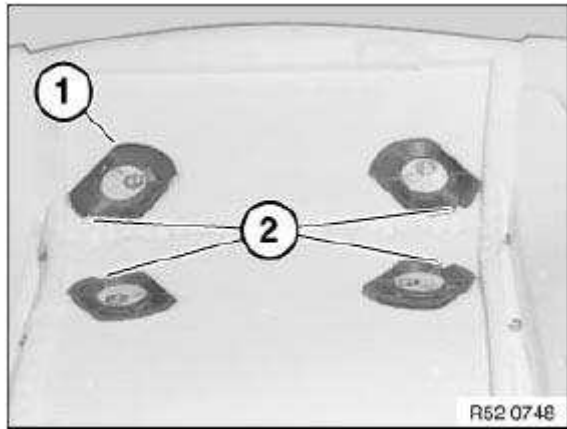


Fig. 199: Identifying Fan And Cable Routing
Courtesy of BMW OF NORTH AMERICA, INC.

REAR SEAT, THROUGH-LOAD

52 26 ... REMOVING AND INSTALLING/REPLACING SKI BAG ON REAR SEAT

Special tools required:

- **00 9 317** , see **00 9 317 TRIM PANEL WEDGE** .

Necessary preliminary tasks:

- Remove **armrest** , see **52 26 030 Removing and installing/replacing armrest for rear seat backrest.**

Release screw (1).

Release screws (2).

Tightening torque: **52 26 09AZ** , see **52 26 REAR SEATS (THROUGH-LOADING SYSTEM)** .

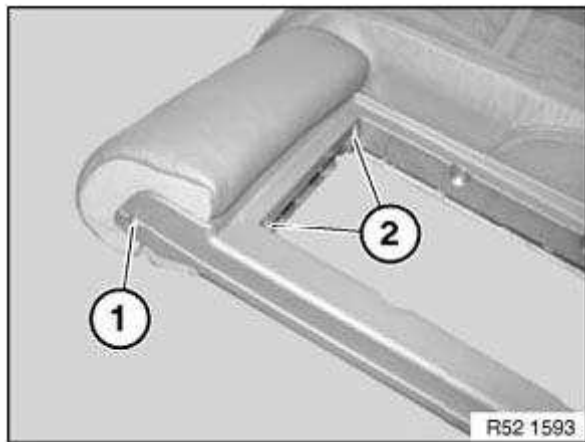


Fig. 200: Identifying Ski Bag Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Tightening torque 52 26 09AZ , see 52 26 REAR SEATS (THROUGH-LOADING SYSTEM) .

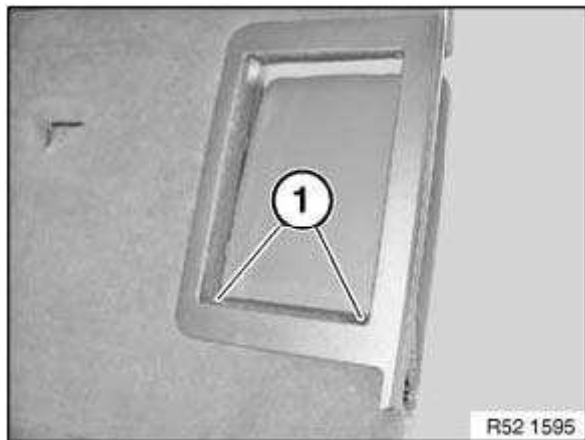


Fig. 201: Identifying Ski Bag Screws
 Courtesy of BMW OF NORTH AMERICA, INC.

Lever out pins.

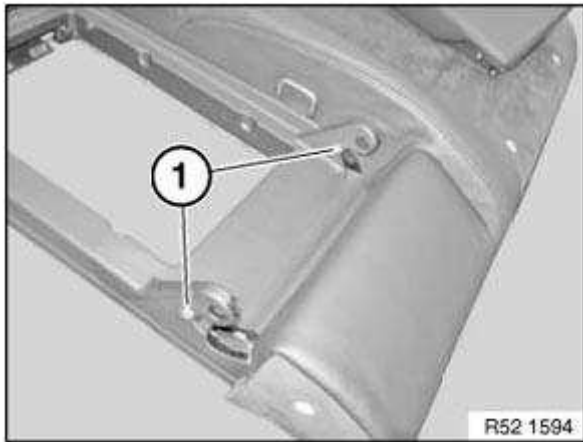


Fig. 202: Identifying Ski Bag Pins

Courtesy of BMW OF NORTH AMERICA, INC.

Lever out rear ski bag frame (1) with special tool 00 9 317 .

IMPORTANT: Risk of damage!

Plastic eyelets of front trim ski bag trim can break.

If necessary, replace faulty ski bag trim.

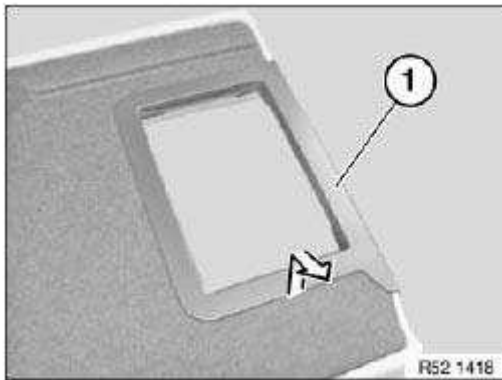


Fig. 203: Levering Out Rear Ski Bag Frame

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip front ski bag trim (1) towards top.

Installation:

Plastic eyelets of front ski bag trim must not be damaged.

If necessary, replace faulty ski bag trim.

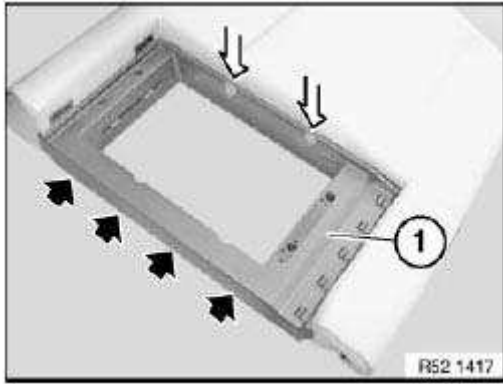


Fig. 204: Unclipping Front Ski Bag Trim
 Courtesy of BMW OF NORTH AMERICA, INC.

52 26 000 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT REAR SEAT

Unclip rear seat towards top.

Installation:

Feed seat belt buckles (1) into openings in rear seat.

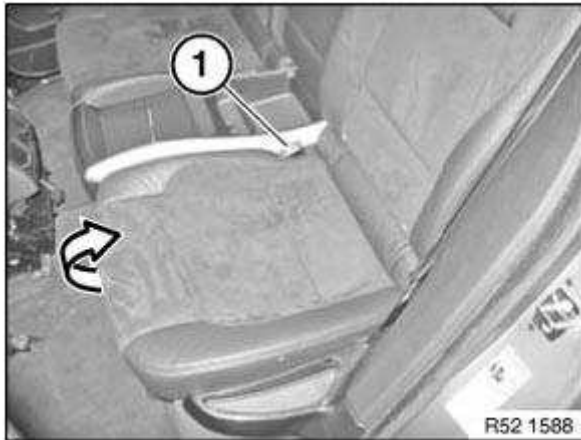


Fig. 205: Feeding Seat Belt Buckles
 Courtesy of BMW OF NORTH AMERICA, INC.

Optional extra with seat heating only:

Unlock plug connections and disconnect.

52 26 001 REMOVING AND INSTALLING/REPLACING BOTH REAR SEATS

NOTE: **Operation is described in:**

- Removing and installing/replacing left or right rear seat , see 52 26 000 Removing and installing/replacing left or right rear seat.

52 26 011 REMOVING AND INSTALLING/REPLACING BACKREST FOR LEFT REAR SEAT

NOTE: Operation is described in:

- Removing and installing/replacing both backrests , see 52 26 020 Removing and installing/replacing backrest for left or right rear seat.

52 26 012 REMOVING AND INSTALLING/REPLACING BACKREST FOR RIGHT REAR SEAT

NOTE: Operation is described in:

- Removing and installing/replacing both backrests , see 52 26 020 Removing and installing/replacing backrest for left or right rear seat.

52 26 020 REMOVING AND INSTALLING/REPLACING BACKREST FOR LEFT OR RIGHT REAR SEAT

Necessary preliminary tasks:

- Remove **trim on C-pillar** on left or right, see 51 43 230 REMOVING AND INSTALLING/REPLACING TRIM ON C-PILLAR AT BOTTOM LEFT OR RIGHT .
- Remove **rear seat** , see 52 26 000 Removing and installing/replacing left or right rear seat.

Right backrest:

NOTE: Use a short Torx attachment to release screw (1).

- Release screw (1).

Tightening torque: 52 26 04AZ , see 52 26 REAR SEATS (THROUGH-LOADING SYSTEM) .

- Fold backrest forwards slightly (2)
- Pull backrest forwards and outwards out of centre mount (3)

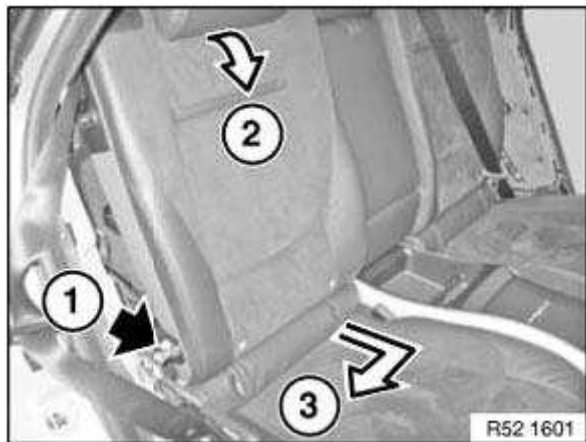


Fig. 206: Removing Right Backrest
 Courtesy of BMW OF NORTH AMERICA, INC.

Left backrest:

- Release screw (1).

Tightening torque: 52 26 04AZ , see **52 26 REAR SEATS (THROUGH-LOADING SYSTEM)** .

- Fold backrest forwards slightly (3)
- Pull backrest forwards and outwards out of centre mount (4)

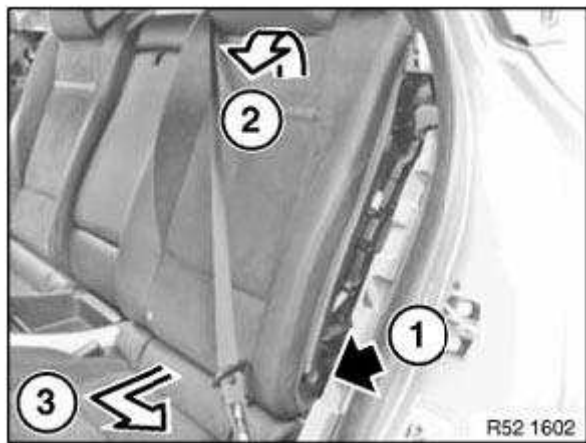


Fig. 207: Removing Left Backrest
 Courtesy of BMW OF NORTH AMERICA, INC.

52 26 030 REMOVING AND INSTALLING/REPLACING ARMREST FOR REAR SEAT BACKREST

Release screw (1).

Tightening torque: 52 26 03AZ , see **52 26 REAR SEATS (THROUGH-LOADING SYSTEM)** .

Twist armrest in direction of arrow out of right mount.

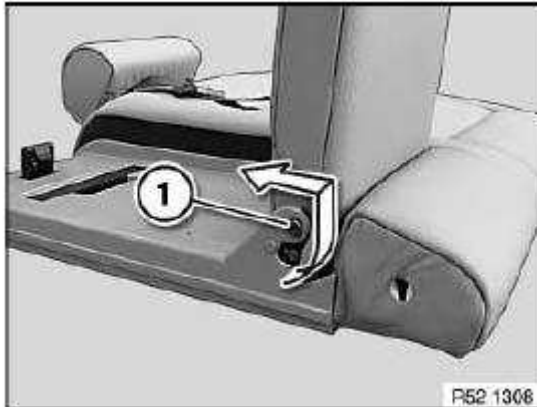


Fig. 208: Twisting Armrest

Courtesy of BMW OF NORTH AMERICA, INC.

Hold back left armrest trim with a plastic wedge.

Remove armrest.

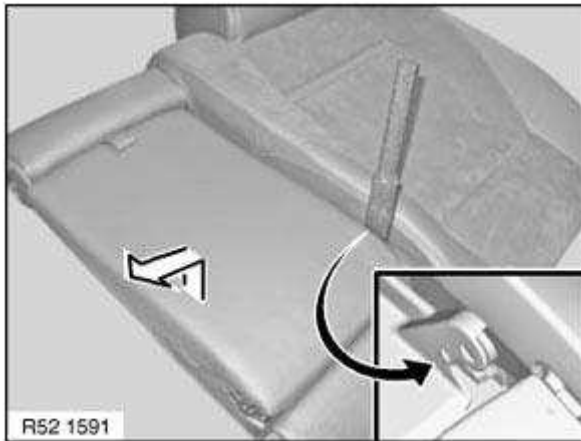


Fig. 209: Removing Armrest

Courtesy of BMW OF NORTH AMERICA, INC.

52 26 080 REMOVING AND INSTALLING/REPLACING BACKREST FRAME FOR LEFT REAR SEAT

Necessary preliminary tasks:

- Remove **backrest cover** , see **52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).**
- Remove **lock** , see **52 26 311 Removing and installing/replacing lock for left or right rear seat backrest.**

52 26 085 REMOVING AND INSTALLING/REPLACING BACKREST FRAME FOR RIGHT REAR SEAT

Necessary preliminary tasks:

- Remove **backrest cover** , see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).
- Removing **lock for rear seat backrest** , see 52 26 311 Removing and installing/replacing lock for left or right rear seat backrest.

52 26 199 REMOVING AND INSTALLING/REPLACING REAR PANEL ON LEFT REAR SEAT BACK

Necessary preliminary tasks:

- Remove **rear seat back** , see 52 26 020 Removing and installing/replacing backrest for left or right rear seat.
- If necessary, remove **rear frame for ski bag** , see 52 26 ... Removing and installing/replacing ski bag on rear seat.

Unclip lock trim on backrest edge in direction of arrow (1).

Slide back of lock trim in outward direction and remove in direction of arrow (2).

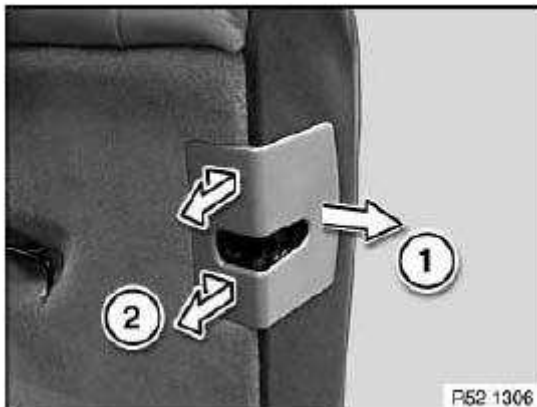


Fig. 210: Sliding Back Of Lock Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retaining lugs on trim must not be damaged.



Fig. 211: Locating Retaining Lugs
 Courtesy of BMW OF NORTH AMERICA, INC.

Version without ski bag:

Lever backrest cover all round out of backrest frame.

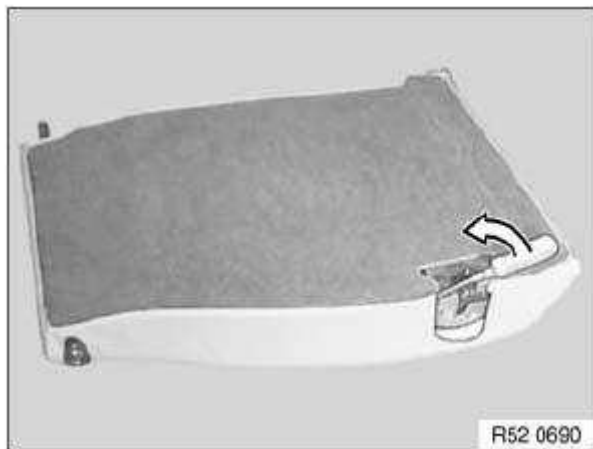


Fig. 212: Levering Backrest Cover Out Of Backrest Frame
 Courtesy of BMW OF NORTH AMERICA, INC.

Version with ski bag:

Lever backrest cover all round out of backrest frame.

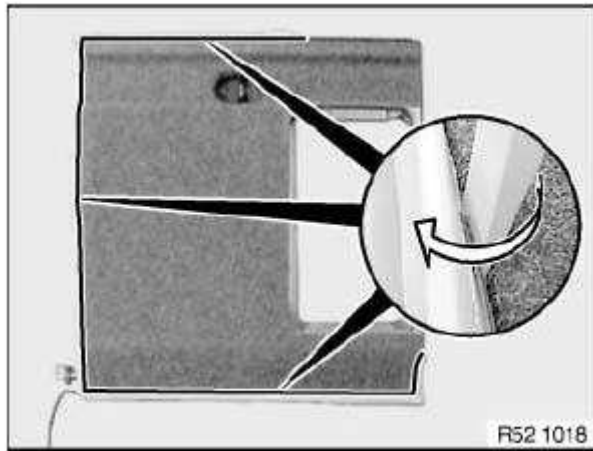


Fig. 213: Levering Backrest Cover Out Of Backrest Frame
 Courtesy of BMW OF NORTH AMERICA, INC.

Detach rear panel (2) with flat scraper (1) from rear seat back.

Installation:

Comply with instructions issued by manufacturer of universal spray adhesive.

Apply universal spray adhesive to rear panel and rear seat back.

Fit and align rear panel within the air drying time (see manufacturer's instructions).

Observe and adhere to curing time to prevent rear panels from slipping.

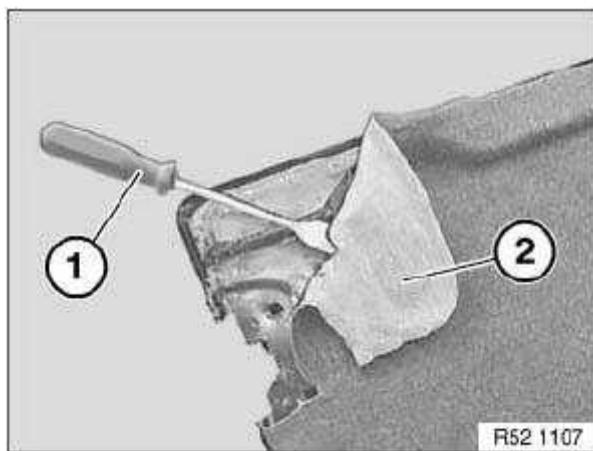


Fig. 214: Detaching Rear Panel With Flat Scraper From Rear Seat Back
 Courtesy of BMW OF NORTH AMERICA, INC.

Necessary preliminary tasks:

- Remove **rear seat back** , see 52 26 020 Removing and installing/replacing backrest for left or right rear seat.

Unclip lock trim on backrest edge in direction of arrow (1).

Slide back of lock trim in outward direction and remove in direction of arrow (2).

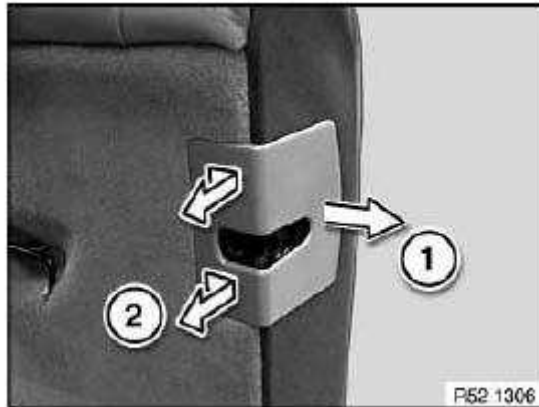


Fig. 215: Sliding Back Of Lock Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retaining lugs on trim must not be damaged.



Fig. 216: Locating Retaining Lugs
Courtesy of BMW OF NORTH AMERICA, INC.

Lever backrest cover all round out of backrest frame.

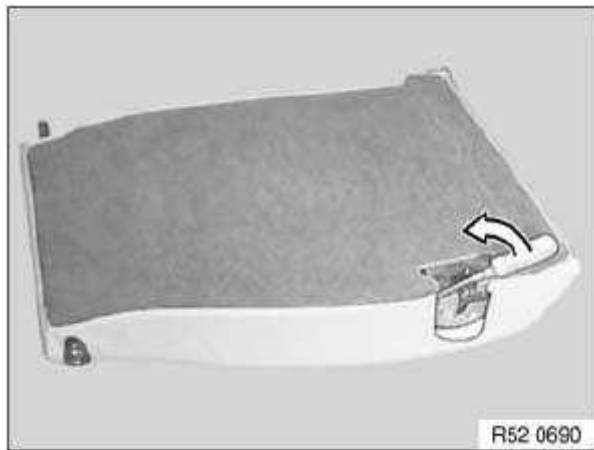


Fig. 217: Levering Backrest Cover Out Of Backrest Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Detach rear panel (2) with flat scraper (1) from rear seat back.

Installation:

Comply with instructions issued by manufacturer of universal spray adhesive.

Apply universal spray adhesive to rear panel and rear seat back.

Fit and align rear panel within the air drying time (see manufacturer's instructions).

Observe and adhere to curing time to prevent rear panels from slipping.

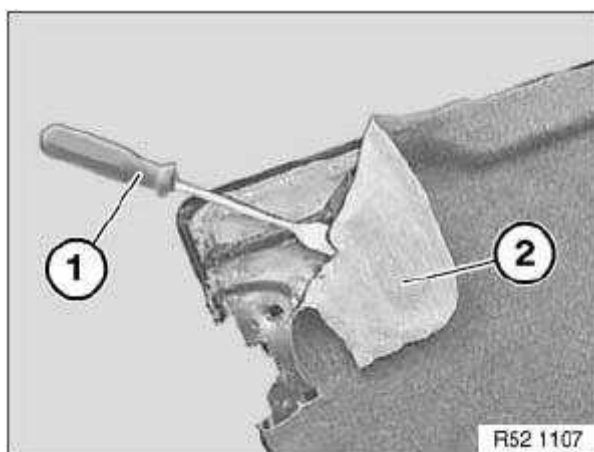


Fig. 218: Detaching Rear Panel With Flat Scraper From Rear Seat Back
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip lock trim on backrest edge in direction of arrow (1).

Slide back of lock trim in outward direction and remove in direction of arrow (2).

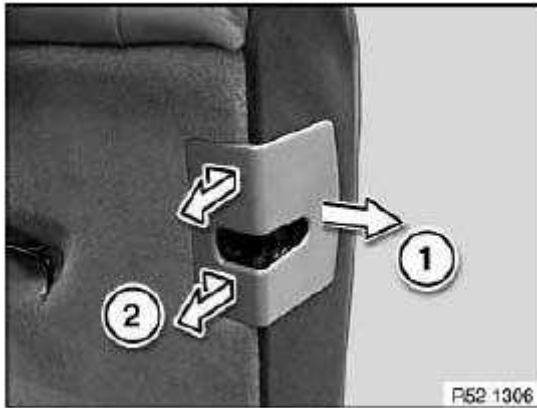


Fig. 219: Sliding Back Of Lock Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retaining lugs on trim must not be damaged.



Fig. 220: Locating Retaining Lugs
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Risk of damage!

Insert plastic wedge from outside between trim (1) and lock.

Carefully lever outer side of trim (1) with plastic wedge upwards out of catch.

Lever inner side of trim (1) with plastic wedge out of catch.

Remove trim upwards.

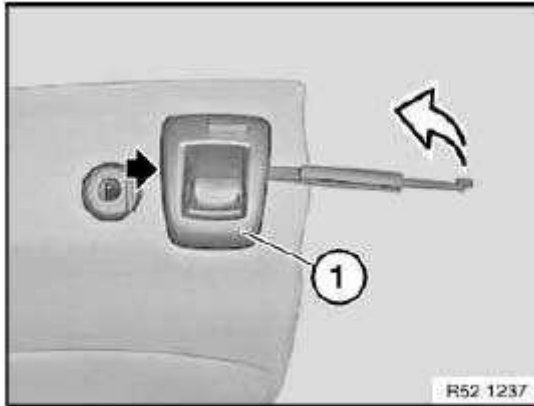


Fig. 221: Levering Inner Side Of Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out backrest cover (1) in working area.

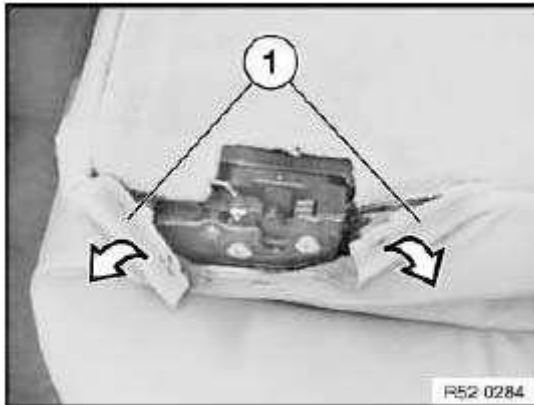


Fig. 222: Levering Out Backrest Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and feed lock (1) out of rear seat backrest.

Tightening torque: 52 26 05AZ , see **52 26 REAR SEATS (THROUGH-LOADING SYSTEM)** .

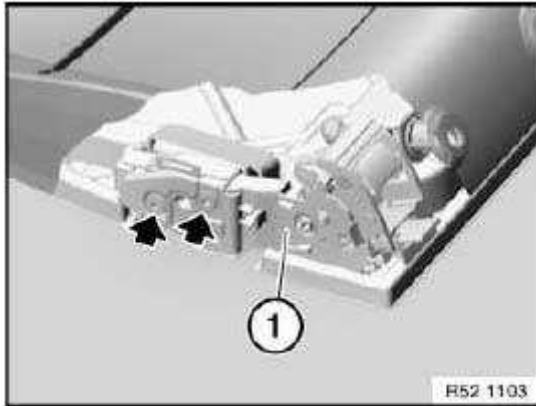


Fig. 223: Identifying Rear Seat Backrest Lock
 Courtesy of BMW OF NORTH AMERICA, INC.

52 26 405 REPLACING COVER FOR LEFT OR RIGHT REAR SEAT

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove **rear seat** , see 52 26 000 Removing and installing/replacing left or right rear seat.

Open tension cable (1).

Disconnect retainers in marked area

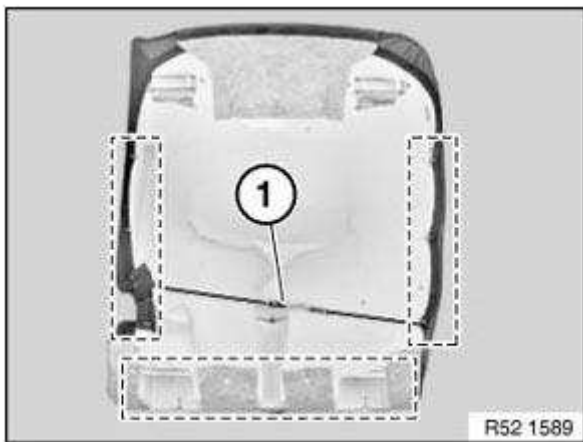


Fig. 224: Identifying Tension Cable
 Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect retainers in marked area

Remove all remnants of clips from cover and support.

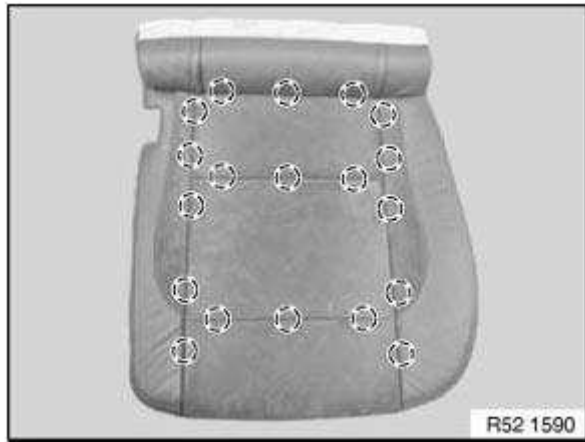


Fig. 225: Identifying Retainers Area
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Insert new retainer (2) with special tool 52 0 050 and bend closed.

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in seat cover
5. Seat cover

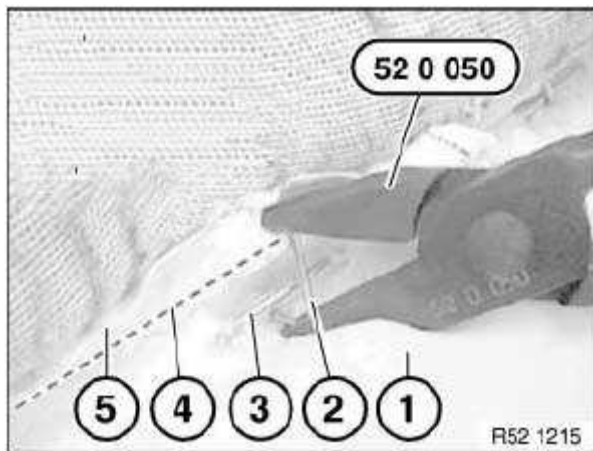


Fig. 226: Bending Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Operation is described in:

- Replacing COVER FOR LEFT OR RIGHT REAR SEAT

52 26 411 REPLACING BACKREST COVER FOR LEFT REAR SEAT

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove left **backrest cover** , see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).
- **ski bag** , see 52 26 ... Removing and installing/replacing ski bag on rear seat.
- Remove **backrest actuator trim and lock trim** , see 52 26 311 Removing and installing/replacing lock for left or right rear seat backrest.

Lever trim wire out of metal claws in marked area.

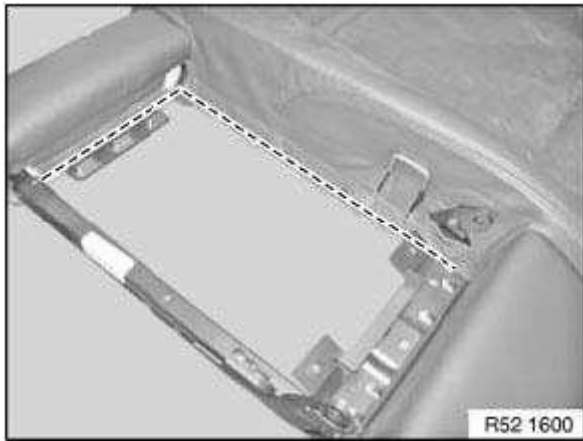


Fig. 227: Identifying Trim Wire Area
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out welt in marked area of rear panel.

Remove backrest cover with padding.

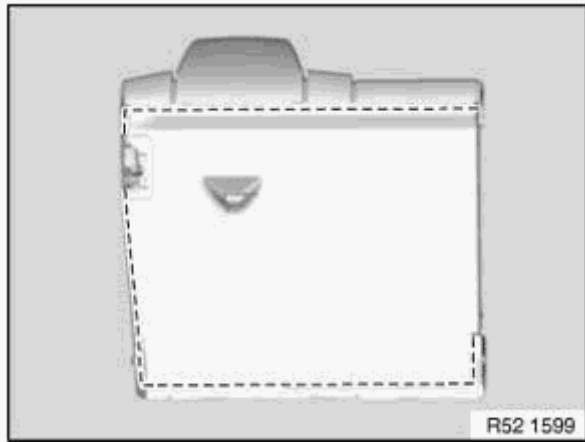


Fig. 228: Identifying Welt Marked Area
Courtesy of BMW OF NORTH AMERICA, INC.

Detaching cover and padding:

- Release all retainers in marked area
- Remove cover from padding
- Remove remaining retainers from cover and padding

Replacement only:

- Pull all trim wires out of cover
- If necessary, cut pockets in new cover for trim wires
- Push trim wires into cover pockets

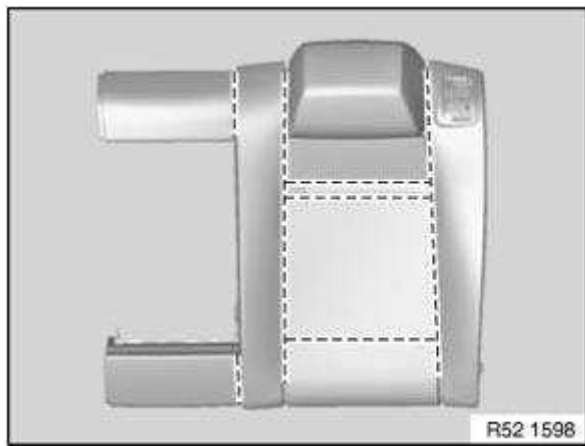


Fig. 229: Identifying Trim Wires Area
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Insert new retainer (2) with special tool 52 0 050 and bend closed.

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in seat cover
5. Backrest cover

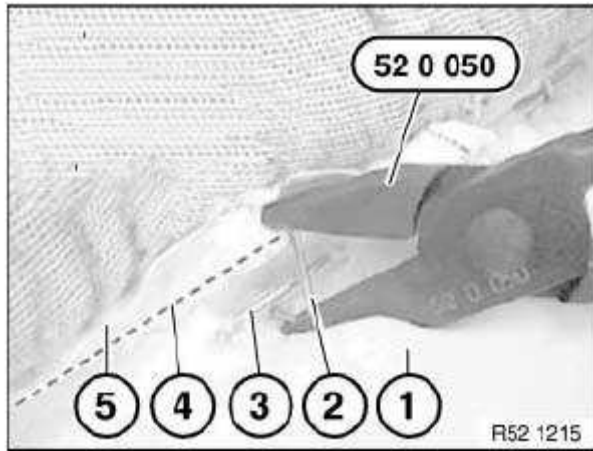


Fig. 230: Bending Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

52 26 412 REPLACING BACKREST COVER FOR RIGHT REAR SEAT

Special tools required:

- 52 0 050 , see 52 0 050 PLIERS .

Necessary preliminary tasks:

- Remove right **backrest cover** , see 52 13 405 Replacing backrest cover for left or right front seat (normal/semi-electric).
- Remove **backrest actuator trim and lock trim** , see 52 26 311 Removing and installing/replacing lock for left or right rear seat backrest.

Lever out welt in marked area.



Fig. 231: Identifying Welt Area
Courtesy of BMW OF NORTH AMERICA, INC.

Detaching cover and padding:

- Release all retainers in marked area
- Remove cover from padding
- Remove remaining retainers from cover and padding

Replacement only:

- Pull all trim wires out of cover
- If necessary, cut pockets in new cover for trim wires
- Push trim wires into cover pockets

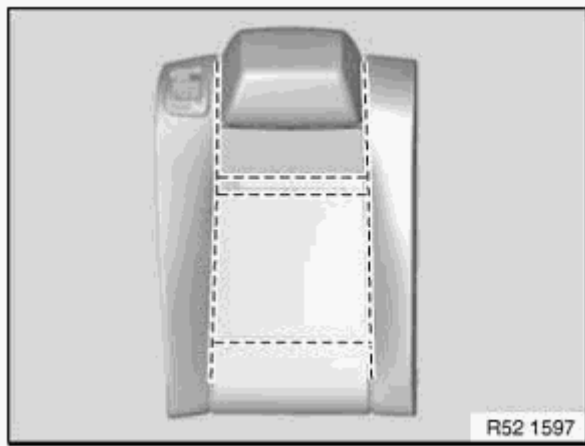


Fig. 232: Identifying Retainers Area
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Insert new retainer (2) with special tool 52 0 050 and bend closed.

1. Padding
2. Retainer
3. Trim wire in padding
4. Trim wire in seat cover
5. Backrest cover

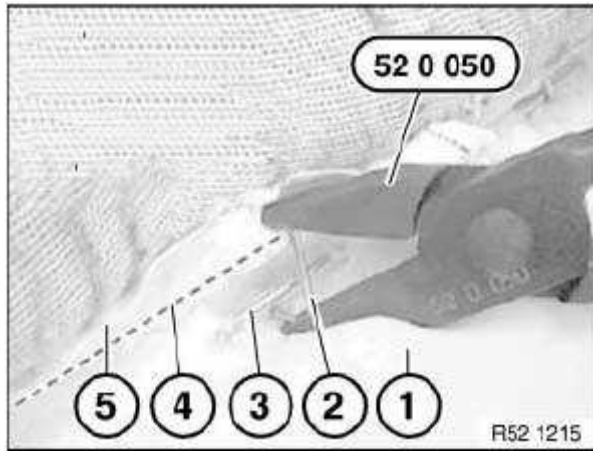


Fig. 233: Bending Retainer

Courtesy of BMW OF NORTH AMERICA, INC.

52 26 455 REPLACING PADDING FOR LEFT OR RIGHT REAR SEAT

NOTE: Operation is described in:

- Replacing COVER FOR LEFT OR RIGHT REAR SEAT

ACCESSORIES & EQUIPMENT

Seats - Special Tools - X6

52 0 050 PLIERS

NOTE: For securing clips on seat cover

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E71, E81, E82, E83, E85, E86, E87, E90, E91, E92, E93, F01, F02, R50, R52, R53, R55, R56, RR1, RR2

Storage location: A13

SI number: 52 06 87(808)

Order number: 52 0 050

Pliers

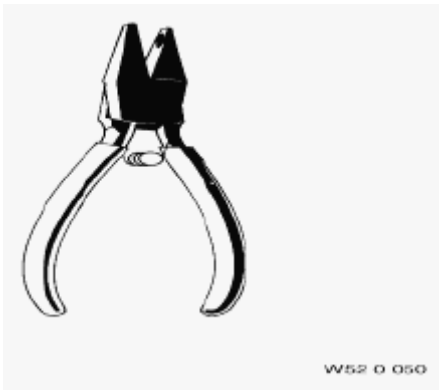


Fig. 1: Special Tool (52 0 050)

Courtesy of BMW OF NORTH AMERICA, INC.

ACCESSORIES & EQUIPMENT

Seats - Tightening Torques

FRONT SEATS

52 10 FRONT SEATS

FRONT SEATS-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Seat to floor plate	E70/E71	(trilobular)	Replace Powerlock screw	43 Nm
2AZ Backrest frame to seat frame	E70/E71	(trilobular)	Replace Powerlock screw	31 Nm
3AZ Active head restraint - Sliding rails with gas cartridge	E70/E71			8 Nm
4AZ Carrier article for electr. actuating unit	E70/E71			8 Nm
5AZ Trim to seat	E70/E71			4 Nm
6AZ Seat rails to seat frame	E70/E71			27 ± 3 Nm
7AZ Adjusting switch to trim	E70/E71			2 Nm
8AZ Seat tilt adjuster to seat mechanism	E70/E71	M8x30		27 ± 3 Nm
9AZ Seat depth adjustment	E70/E71			3 + 0.5 Nm
10AZ Gearing for headrest adjustment	E70/E71			2.5 +0.5 Nm

REAR SEAT, NORMAL

52 25 REAR SEATS (THROUGH-LOADING SYSTEM)

REAR SEATS (THROUGH-LOADING SYSTEM)-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Floorplate adapter - to body	E70			40 Nm
2AZ Outer mount (backrest) - to body	E70/E71			20 Nm
3AZ Centre armrest - to backrest	E70/E71			12 Nm
4AZ Outer mount to seat back	E70/E71			71 Nm
5AZ Lock to backrest	E70/E71			22.5 Nm
6AZ Adapter plate, backrest lock	E70			20 Nm
7AZ Lock, centre armrest	E70			12 Nm
8AZ Top Tether eyelet	E70/E71			24 Nm
9AZ Trim, ski bag	E70/E71			6 Nm
10AZ Closing bar - to body	E70/E71			21 Nm

11AZ Insert seat - to body	E71			40 Nm
12AZ Adapter plate - to body	E71			21 Nm
13AZ Bracket, lower strap fitting - to body	E71			43 Nm
2nd rear seat row for vehicles with 3rd seat row (7-seater)				
20AZ Rear seat - to body	E70			43 Nm
21AZ Top Tether eyelet	E70			20 Nm
22AZ Centre armrest	E70			25 ± 2 Nm
23AZ Trim, ski bag	E70			3 ± 0.3 Nm
24AZ Trim, release unit	E70			1 ± 0.2 Nm
25AZ Release handle	E70			3 Nm
26AZ Belt outlet trim	E70			1.7 ± 0.2 Nm
27AZ Backrest frame to seat frame	E70			28 ± 2 Nm

REAR SEAT, THROUGH-LOADING

52 26 REAR SEATS (THROUGH-LOADING SYSTEM)

REAR SEATS (THROUGH-LOADING SYSTEM)-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Floorplate adapter - to body	E70			40 Nm
2AZ Outer mount (backrest) - to body	E70/E71			20 Nm
3AZ Centre armrest - to backrest	E70/E71			12 Nm
4AZ Outer mount to seat back	E70/E71			71 Nm
5AZ Lock to backrest	E70/E71			22.5 Nm
6AZ Adapter plate, backrest lock	E70			20 Nm
7AZ Lock, centre armrest	E70			12 Nm
8AZ Top Tether eyelet	E70/E71			24 Nm
9AZ Trim, ski bag	E70/E71			6 Nm
10AZ Closing bar - to body	E70/E71			21 Nm
11AZ Insert seat - to body	E71			40 Nm
12AZ Adapter plate	E71			21 Nm

- to body				
13AZ Bracket, lower strap fitting - to body	E71			43 Nm
2nd rear seat row for vehicles with 3rd seat row (7-seater)				
20AZ Rear seat - to body	E70			43 Nm
21AZ Top Tether eyelet	E70			20 Nm
22AZ Centre armrest	E70			25 ± 2 Nm
23AZ Trim, ski bag	E70			3 ± 0.3 Nm
24AZ Trim, release unit	E70			1 ± 0.2 Nm
25AZ Release handle	E70			3 Nm
26AZ Belt outlet trim	E70			1.7 ± 0.2 Nm
27AZ Backrest frame to seat frame	E70			28 ± 2 Nm