*Necessary preliminary tasks:*

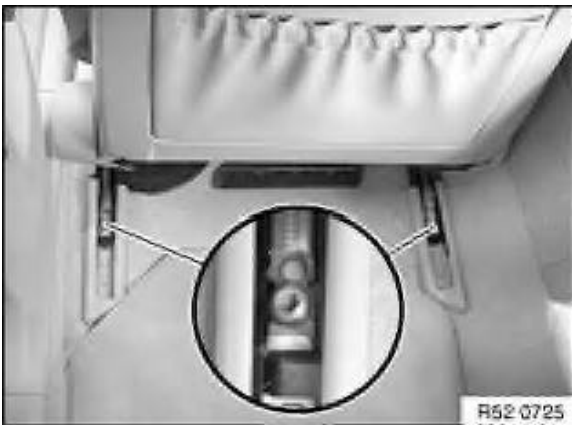
- Remove front head restraint
- Remove outer cover on front seat

**Warning!**

Read and comply with safety regulations for handling airbag modules and pyrotechnical belt tensioners.

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

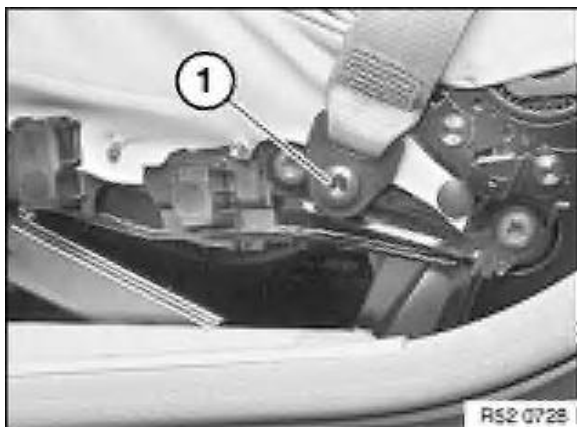
Switch off ignition!



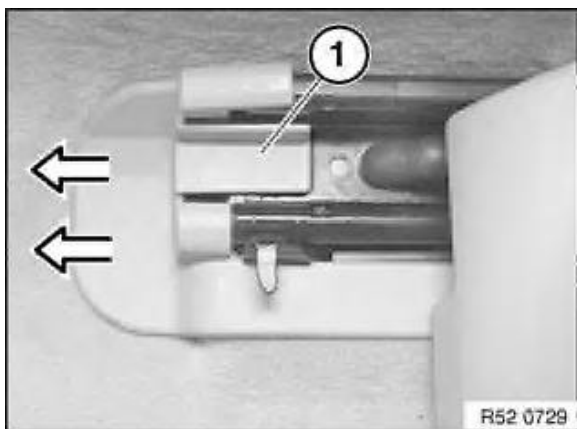
Adjust front seat as far forward and upward as possible.

Unfasten screws.

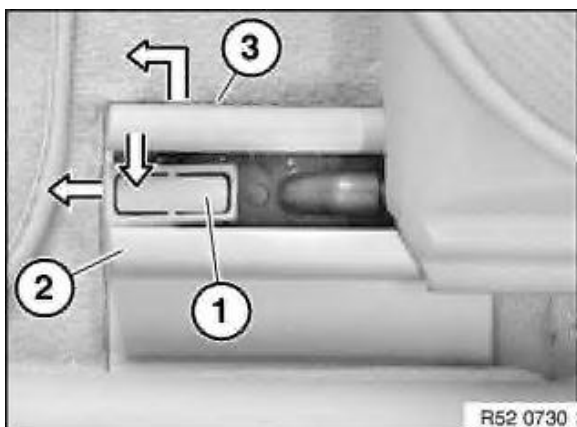
Tightening torque 52 10 1AZ.



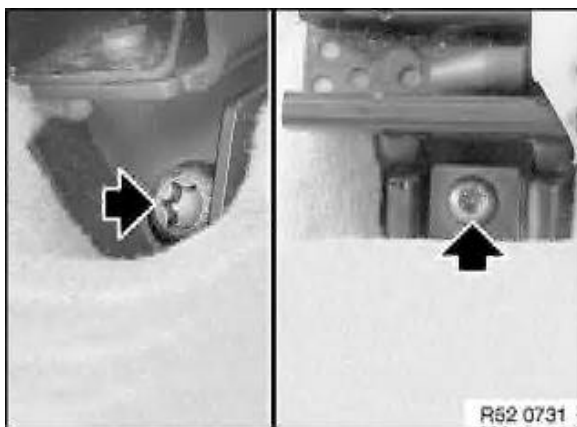
Release screw (1) for belt mounting.
Tightening torque 72 11 11AZ.



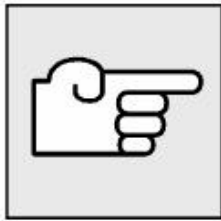
Move front seat as far back as possible.
Raise bridge (1) on front right seat rail cover slightly and unlock.
Pull cover forwards to remove.



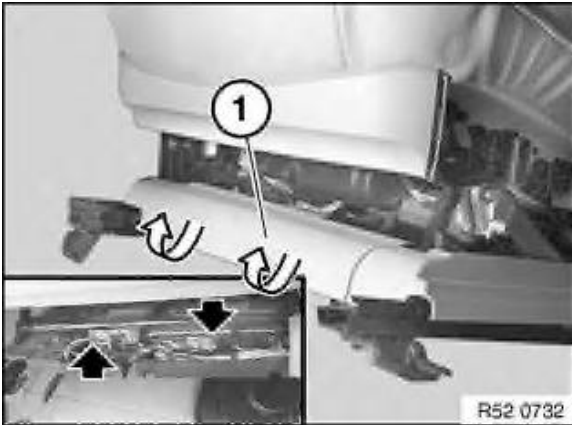
Press rocker switch (1) on front left seat rail cover and unlock.
Gently slide cover (2) towards front.
Carefully unlock inside edge (3) from inside.
Pull cover forwards to remove.



Release front screws on left and right seat rails.
Tightening torques 52 10 1AZ.

**Installation:**

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



Carefully tip seat towards rear.

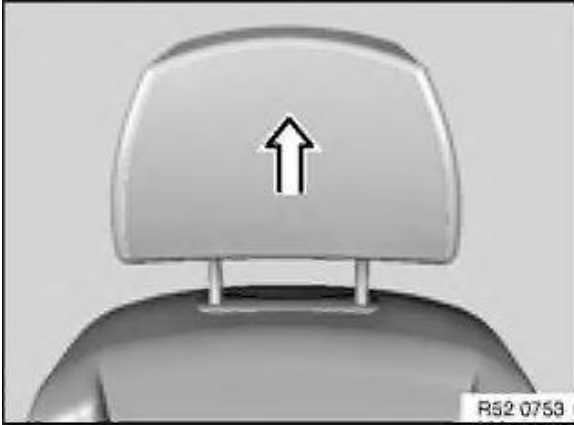
Unclip cover (1) towards front.

Disconnect plug connections (yellow and black) on seat modules.

Important!

Remove door sill with protective covers (damage to vehicle).

Lift out front seat.

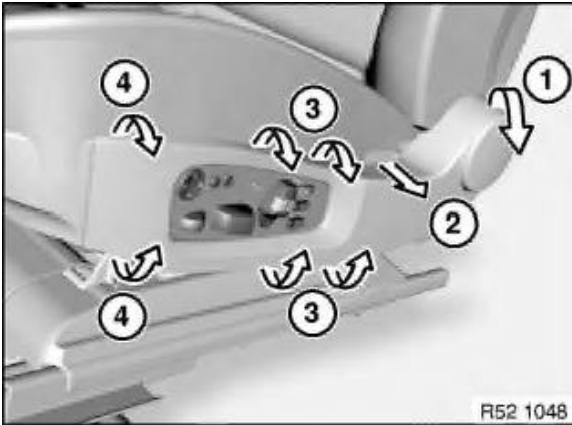


Move headrest up as far as possible.

Pull out forcefully.

Installation:

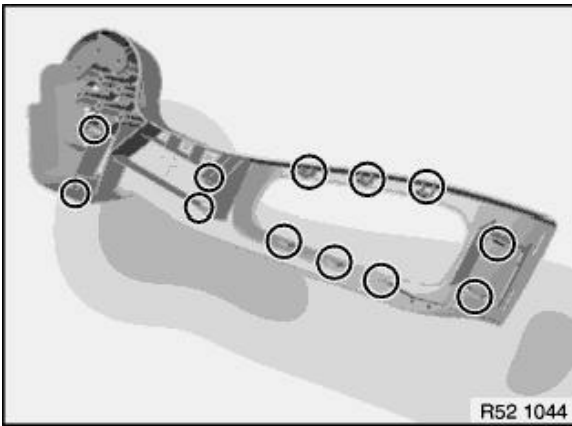
Press in head restraint until it can be heard to snap into place.



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



Installation:

Retaining clips must not be damaged.

Failure to comply with the warning notices and repair instructions for gas generator components can cause accidental deployment and result in injury and vehicle damage!

This applies in particular to the following components:

- Airbag modules (driver's/front passenger airbags, side airbags)
- Buckle/belt tensioner
- Head airbag (ITS, AHPS)
- Active knee protection
- Active head restraint
- Safety battery terminal

1. Regulations

The regulations quoted in the following refer to the Federal Republic of Germany.

In all other countries, the relevant legislation and regulations must be observed in each case. Country-specific legal regulations that go beyond this information or court decisions based thereon must be followed in each case or given precedence over these regulations.

Gas generators are pyrotechnical objects belonging to danger class T1.

Handling, transporting and storing non-fired gas generators are subject to the "Explosive Materials Act" (law relating to the use of explosives dated 13/09/1976).

The relevant trade supervisory authority must be notified at least 2 weeks before pyrotechnical objects are handled for the first time. Here the relevant authority must be notified in writing of the person responsible (e.g. dealership owner, holder of general power of attorney or if necessary workshop supervisor). A certificate of qualification, i.e. specific training, is not required for the person responsible.

2. Disassembly and assembly

- Inspection, testing and installation work may only be carried out by expert trained personnel in BMW Service.
- Work on components of the airbag system should only ever be carried out with the battery disconnected, the negative terminal post covered and the plug connection of the cable leading to the gas generator disconnected. If only the battery is disconnected, the following prescribed waiting period must be observed without fail:
 - 30 minutes for vehicles up to 9/93;
 - 1 minute for vehicles from 9/93
- In the event of breaks in work, a component with a gas generator that has been removed must be secured against access by other persons.
- Individual components must never be repaired. Instead, always replace them.
- Do not treat airbag system components with cleaning agents or grease.
- Components of the airbag system must not be exposed to temperatures in excess of 75 °C.
- Airbag system components, including electronic diagnostic components, which have been dropped from heights in excess of 0.5 m must not be reinstalled in the vehicles.
- Before installing, subject airbag system components (including electronic diagnostic components) to a visual inspection for damage and replace if necessary.
- Airbag system components may only be electrically tested while they are installed and only with the BMW diagnostic

system / DIS.

- **Danger of injury:** The airbag module may only be set down with the airbag itself facing upwards. Otherwise the generator will be thrown upwards if it is fired.
- Do not point the firing pellet of a gas generator at other persons.
- Components with gas generators must not be fired while they are removed. They must be disposed of by special disposal companies or returned to BMW in the packaging of the new components.
- When carrying out straightening and welding work with an electric welder:
 - Disconnect battery
 - Cover negative terminal (post)
- Avoid all contact with the skin when removing a fired airbag module - wear gloves. Wash with water after contact with the skin.

3. Transport

- Components with gas generators must be sent off in the packaging of the new components.

4. Storage

- Observe the regulations of the relevant trade supervisory authority and the applicable national regulations.

52 10 Front seats

	Type	Thread	Tightening specification	Measure
1AZ Seat to floor plate	E31 / E32 / E34 / E36	M10		44 Nm
	E36 / Z3 front	M8		22 Nm
	E36 / Z3 rear	M10		43 Nm
	E38 / E39	M10		42 Nm
	E46 / E52 / E53 / E85 / E83 / E63 / E64	M10	90° angle of rotation checked	45 Nm
	E65 / E66 / E60 / E61 / E87	M10 (trilobular)	Replace Powerlok screw	44 Nm
2AZ Backrest-frame on seat frame	E36			60 Nm
	E63 / E64 / E83 / E85			32 Nm
	E87	(trilobular)	Replace Powerlok screw	32 Nm
	E46 all except Convertible		Replace screws	32 Nm
	E46 / Convertible		Replace screws	24 ⁺⁴ Nm
	E65 / E66 / E60 / E61	M10 (trilobular)	Replace Powerlok screw	33 Nm
	E53			45 Nm
3AZ Support (backrest shell) to headrest rail	E31			6.5 Nm
4AZ Headrest rail on seat-backrest-frame	E31			25 Nm
5AZ Finisher on seat rail	E38 / E39	M4		4 Nm
6AZ Seat frame to seat runner	E38 / E39	M6		15 Nm
	E65 / E66	M8		20 ^{±3} Nm
	E60 / E61	M8		27 ^{±3} Nm
7AZ Actuating unit to seat frame	E46 / E85			10 ^{±2} Nm
8AZ Adjusting screw for eccentric disk	E46 / E85			1.4 Nm
9AZ Seat pan to seat frame	E46 / E85			10 ^{±2} Nm
10AZ Microswitch to front seat	E46			2 ^{±1} Nm

11AZ	Seat backrest frame to seat rail	E31		25 Nm
12AZ	Trims to seat mechanism	E63 / E64		3 Nm
13AZ	Trim to seat cushion shell	E63 / E64		4.4 Nm
14AZ	Bracket, control unit, to seat mechanism	E87		2 Nm
15AZ	Seat depth adjustment to seat mechanism	E87		1.1 Nm
16AZ	Seat tilt adjuster to seat mechanism	E46, E53, E83, E85	M6 x 10 (trilobular)	Replace Taptite screw 9 ^{±1} Nm
17AZ	Seat tilt adjuster to seat pan	E46, E53, E83, E85		9 ^{±1.8} Nm

72 11 Seat Belts

	Type	Thread	Tightening specification	Measure
1AZ Seat belt on body, except for B-pillar Automatic reel Lower strap End fitting	E36 / E31 / E38 / E39			48 Nm
	E46 / E52 / E53 / E65 / E66 / E85 / E60 / E63 /E83 / E87			31 Nm
Seat belt on B-pillar	All, except E53			31 Nm
Seat belt / seat belt catch tensioner to seat, on Touring also to back seat backrest	All, except E53, E52 / E64 / E65 / E66 / E85 / E60			48 Nm
2AZ Screws for seatbelt height adjustment on body	All, except E53 / E60			24 Nm
	E65 / E66			22 Nm
3AZ Seat belt to seat Install bolt with bolt cement.	E31			47 Nm
4AZ Seat belt to backrest	E31			24 Nm
5AZ Headrest to backrest	E31			24 Nm
6AZ Seat belt at belt height adjustment (reversing clip)	All			31 Nm
7AZ Tension relief between roller sun blind bracket and backrest lock bracket	E39/2			24 Nm
8AZ Retaining angle, belt buckle tensioner to seat rail	E46 / E85 / E83			24 Nm
9AZ Slide bar to body	E46 / E63			44 Nm
10AZ Counter-support plate to body, B- and C-pillars	E53			39 Nm

11AZ Seat belt to seat (end fitting)

	E53 / E46 Convertible / E64 / E65 / E66 / E85 / E60 / E83 / E87			45 Nm
12AZ Screw of seatbelt height adjuster to counter-support plate	E53			31 Nm
13AZ Belt buckle tensioner to seat	E53 / E52 / E63 / E64 / E83 / E87			45 Nm
	E60 / E65 / E66 / E85			31 Nm
14AZ Inertial reel unit to body / B-pillar	E53 / E60 / E63 / E83 / E87			31 Nm
15AZ Automatic reel on rear seat backrest	E53			45 Nm
	E83			35 Nm
	E61 / E87			31 Nm
16AZ Belt guide to front seat (reversing clip)	E46 Convertible / E64			4.5 Nm
17AZ Automatic reel to front seat backrest	E46 Convertible			39 Nm
	E64			31 Nm
18AZ Coupling gearing to centering pin	E46 Convertible / E64			2.5 Nm
19AZ Corner hoop to side panel, inner (B- pillar)	E83			4 Nm
	E63 / E87			3 ± 0.5 Nm
20AZ Upper belt loop to body	E83			35 Nm
	E87			31 Nm
21AZ Automatic reel to body	E83			35 Nm
22AZ Anchor fitting tensioner	E60 / 61			31 Nm