

GENERAL INFORMATION**Air Bag Deactivation Procedures - BMW****SPECIAL CARE DURING MECHANICAL REPAIRS**

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all SERVICE PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM procedures.

WARNING: Some vehicles are equipped with a passenger's side air bag ON/OFF switch. This switch should NOT be used in place of specified vehicle air bag system disabling and activating procedures.

WARNING: DO NOT use any type of back-up power supply (memory saver) from outside vehicle to avoid memory loss in memory systems, if equipped. Back-up power supplies can provide enough voltage to deploy air bags.

NOTE: When the battery is disconnected, vehicle computer and memory system may lose data. Driveability problems may exist until computer systems have completed a relearn cycle.

In some instances, it may be necessary to remove steering column or instrument panel to gain access to blower motor housing, heater assembly, evaporator assembly, or other A/C-heater system related components. Observe manufacturer service precautions when working on a vehicle equipped with an air bag system. See SERVICE PRECAUTIONS.

Electrical sources should never be allowed near inflator on back of air bag module. Never probe air bag system electrical wires with analog volt-ohmmeter or test light. Always disable air bag system before servicing vehicle. See DISABLING & ACTIVATING AIR BAG SYSTEM procedure. Failure to do so could result in accidental air bag deployment and possible personal injury.

If air bag system is not fully functional for any reason, DO NOT drive vehicle until system is repaired and is again operational. DO NOT remove bulbs, modules, sensors or other components, or in any way disable system from operating normally. If air bag system is not functional, park vehicle until system is repaired and functions properly.

SYSTEM OPERATION CHECK

1. Turn ignition switch to ON position, with engine off. SRS is operational if AIR BAG warning light comes on and then goes out after about 6 seconds with engine off.
2. If AIR BAG warning light remains on, this indicates a fault in the SRS. If AIR BAG warning light fails to illuminate when ignition is first turned on, this indicates bulb is faulty or there is a fault in the wiring circuit to the bulb.

SERVICE PRECAUTIONS

Observe these precautions when working on SRS:

- When working around steering column and before any repairs are performed, disable SRS. See **DISABLING & ACTIVATING AIR BAG SYSTEM** .
- Before straightening damaged metal or arc-welding, disable SRS and disconnect front sensors, front air bag modules, seat belt tensioners (if equipped) and side air bag modules connectors. See **DISABLING & ACTIVATING AIR BAG SYSTEM** .
- After disabling SRS, wait at least 5 minutes before servicing vehicle. SRS control unit maintains SRS voltage for about 5 minutes after system is disabled. Servicing SRS before 5 minutes may cause accidental air bag deployment and possible personal injury.
- Always wear safety glasses and gloves when handling a deployed air bag module. Air bag module may contain sodium hydroxide deposits, which irritates skin.
- Handle sensors carefully. Never strike or jar sensors. All sensors and mounting bracket bolts must be tightened to specification to ensure proper sensor operation.
- Never use any SRS component that has been dropped from a height of 2 feet or higher.
- DO NOT repair any SRS component or wiring harness; replace only. Wiring harnesses and connectors are Orange for immediate identification.
- To avoid air bag deployment, DO NOT use self-powered electrical test equipment on driver's or passenger's air bag modules. This equipment includes battery powered circuit testers, voltmeters and ohmmeters.
- Always handle air bag module with trim cover away from body. Always place air bag module on workbench with trim cover up, away from loose objects. DO NOT leave air bag modules unattended.
- Never expose SRS components to temperatures greater than 167°F (75°C).
- Front air bag modules, belt tensioners and side air bag modules (if equipped) can only be checked while installed in vehicle and using a BMW Service Tester/DIS. Only attempt SRS inspections using specified procedures and checking devices.
- Never expose any SRS system components to cleaning agents such as solvents, gasoline, lye, etc.

DISABLING & ACTIVATING AIR BAG SYSTEM

CAUTION: Ensure radio is off before disconnecting battery. This will prevent damage to radio microprocessor. On cars with radio codes, ask customer for radio code card before disconnecting battery. Make a note of stored transmitters, restore these transmitters after reconnecting the battery.

1. Before proceeding, see **SERVICE PRECAUTIONS** . Retrieve fault codes before disconnecting battery. Ensure radio and ignition is off. Disconnect and shield negative battery cable. WAIT at least 5 minutes (one minute on 7-series models) for energy capacitor in SRS control unit to discharge. System is now disabled.
2. Ensure no one is inside vehicle and connect negative battery cable. System is now activated. Perform system operation check to ensure system is functioning properly and no fault codes are set. See **SYSTEM OPERATION CHECK** .

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2007 RESTRAINTS Restraints - Tightening Torques - X3

2007 RESTRAINTS**Restraints - Tightening Torques - X3****11 SEAT BELTS****72 11 SEAT BELTS****SEAT BELTS - TIGHTENING TORQUES**

	Type	Thread	Tightening specification	Measure
1AZ Seat belt, Automatic reel, Lower strap, Anchor fitting, Belt tensioner to body	E36/ E31 / E38/ E39 / E46 / E52 / E53 / E83			31 Nm
Seat belt on B-pillar	All, except E53			31 Nm
Seat belt / belt tensioner to seat, on Touring also to rear seat backrest	All, except E52 / E53			48 Nm
2AZ Screws for seatbelt height adjustment on body	All			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 tensioner to seat rail	E46 / E83			24 Nm
9AZ Slide bar to body	E46			44 Nm
10AZ Counter-support plate to body, B- and C-pillars	E53			39 Nm
11AZ Seat belt to seat (end fitting)	All			45 Nm
12AZ Screw of seatbelt height adjuster to counter-support plate	E53			31 Nm
13AZ Belt tensioner to seat	E83			45 Nm
	E52 / E53			31 Nm
14AZ Inertial reel unit to body / B-pillar	E53 / E83			31 Nm
15AZ Automatic reel on rear seat backrest	E53			45 Nm
	E83			35 Nm
16AZ Belt guide to front seat (sash guide to head restraint clip)	E46 Convertible			8 Nm
17AZ Automatic reel to front seat				

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backrest	E46 Convertible			39 Nm
18AZ Coupling gearing to centering pin	E46 Convertible			2.5 Nm
19AZ Corner hoop to side panel, inner (B-pillar)	E53 / E83			3 ±0.5 Nm
20AZ Upper belt loop to body	E83			31 Nm
21AZ Automatic reel to body	E83			31 Nm

12 AIRBAG GENERATOR/AIRBAG UNIT**72 12 AIRBAG MODULES****AIRBAG MODULES - TIGHTENING TORQUES**

	Type	Thread	Tightening specification	Measure
1AZ Airbag module in door, door trim panel or in side frame, holder	E36 / E38 / E39 / E46 / E52 / E53			8.5 Nm
2AZ Gas generator of ITS head airbag on body	E38 / E53	M6 nut		4 Nm
	E83			6.5 Nm
3AZ Bracket of ITS head airbag on body	E38 / E39 / E46	Metal screw		2.5 Nm
	E83			6.5 Nm
4AZ ITS head airbag to body (end fitting)	E38 / E39 / E46 / E53			11 Nm
	E83			6.5 Nm
5AZ Additional steel bracket for ITS head airbag on body	E38 / L7	Self-tapping screw M5		3 Nm
6AZ Gas generator of ITS head airbag on body	E39 / E46	M6 nut or oval-head screw, thread-tapping		4 Nm
7AZ Passenger airbag module on instrument panel carrier	E36 except Z3 / E52	M8		22 Nm
8AZ Passenger airbag module on instrument panel carrier	E36 Z3	M8		24 Nm
9AZ Passenger airbag module on instrument panel carrier	E38 / E39	M6 nut		10 Nm
	E83	M6 nut with pressed-on washer		6 Nm
	E85	M6		8 Nm
10AZ Retaining strap for cover, passenger airbag module on instrument panel carrier	E46 / E52 / E83	M6		9 Nm
11AZ Passenger airbag module on				

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instrument panel carrier	E46 / E53	M8 nut		22 Nm
12AZ Head airbag cassette in rear compartment to body	E38 / E39	M6		11 Nm
13AZ Gas generator, head airbag in rear compartment, to body	E38	M6 nut		4 Nm
14AZ Bracket of ITS head airbag on body	E46 Coup / E53	Metal screw		4 Nm
15AZ ITS head airbag gas generator to body for conversion from 1.0 to 1.1	E38	M6		4 Nm
16AZ Gas generator, head airbag, in rear comp. to body (parcel shelf)	E39	M6		4 Nm
17AZ Head airbag cassette in rear compartment to body	E53	Metal screw		3 Nm
18AZ Gas generator, head airbag in rear compartment, to body	E53	M6		4 Nm
19AZ Airbag module for knee protection	E85	M6	Replace screws	8 Nm