

AIR BAG SAFETY SYSTEM

faster collision with a stationary object regardless of the speed of your vehicle or the other vehicle.

The air bag safety system is activated by a sensor situated under the drivers seat fixed to the floor pan.

The air bag system is designed to activate if the vehicle has made an impact with an object directly in front or 30 degrees to either side of straight ahead. On impact the air suddenly inflates to protect the driver or passenger from causing them selves an injury on the dash or steering wheel as they are jolted forward. Soon after the impact and the inflation of the air bag the air bag will slowly deflate.

DEACTIVATE AIR BAG ELECTRICAL SYSTEM

# Warning the air bag can still inflate after the electrical system has been disconnected.

1. Turn ignition off, with steering wheel locked, remove ignition keys this will ensure steering wheel is locked.

2. Allow the dash lower right panel to be lowered to gain access to the fuse panel.

3. Remove the fuse number 18.

4. Disconnect the air bag wiring loom connector, the loom connector is coloured yellow and located under the steering column, under the dash.

ACTIVATE AIR BAG ELECTRICAL SYSTEM

1. Connect the air bag wiring loom connector, the loom connector is coloured yellow and located under the steering column, under the dash.

2. Replace the fuse number 18.

3. Install lower right dash panel into position, turn lock screws.

AIR BAG Remove

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Air Bag Safety System

WARNING

The air bag must be deactivated before any maintenance is carried out on the air bag, dash, steering wheel, steering column or other vehicle components that could cause an injury to the person or other persons while maintenance is being carried out.

WARNING

If the horn pad air bag assembly or the steering wheel and steering column assembly has been removed from the vehicle, the components must be left so if the air bag inflates there will be no damage to people.

The air bag needs a radius of 1 meter clearance all the way around it in case of sudden inflation.

Do not position the assembly with the air bag facing down as it will catapult the assembly into the air. Position the assembly so the air bag faces either up or off on an angle which will not cause the assembly or other objects to fly through the air if the air bag inflates.

DESCRIPTION.

Air bag safety system is designed to give protection to the driver and the passenger only if there is an air bag fitted to the passenger side of the vehicle. The air bag should only activate if the vehicle is involved with a 45 kmh or

# Warning the air bag can still activate after the electrical system has been disconnected.

1. Deactivate the electrical system of the air bag as described above, ignition keys removed.
2. Remove the 4 torx screws attaching the horn pad and air bag to the steering wheel.
3. Carefully move horn pad and air bag assembly away from the steering wheel. Label wiring looms to help during installation, disconnect the air bag wiring connections.
4. Gently lift the horn bar and air bag assembly away from the steering wheel and out the vehicle.

#### Install

1. Make sure the ignition system is turned off and the steering wheel is in locked position.
2. Gently position the horn bar and air bag assembly into the vehicle, near the steering wheel so the electrical connections can be reconnected. Use the labels from removal to help installing connections.
3. Replace the 4 torx screws attaching the horn pad and air bag to the steering wheel, tighten to specification.

#### Horn Pad & Air Bag Assembly Screws Torque: 10-15Nm

4. Activate the electrical system of the air bag as described above.

### AIR BAG CLOCK SPRING COIL ASSEMBLY

Note: During any maintenance work on the steering column when the air bag clock spring coil is to be removed or replaced, the front wheels must be pointing straight ahead, the steering wheel must be centred, the steering wheel/column must be locked with the key removed and the air bag electrical system deactivated.

#### Remove

# Warning the air bag can still activate after the electrical system has been disconnected.

1. Deactivate the electrical system of the air bag as described above, ignition keys removed.
2. Remove the 4 torx screws attaching the horn pad and air bag to the steering wheel.
3. Carefully move the horn pad and air bag assembly away from the steering wheel. Label wiring looms to help during installation, disconnect the air bag wiring connections.
4. Gently lift the horn bar and air bag assembly away from the steering wheel and out the vehicle.
5. Remove the 3 screws attaching the clock coil spring assembly from around the steering wheel nut.
6. Remove the steering wheel attaching nut.
7. Use a steering wheel puller to remove steering wheel.
8. Remove 4 screws attaching lower steering column cover to upper cover, remove both upper and lower cover.
9. Disconnect clock coil spring assembly wiring connectors.
10. Remove the coil assembly from steering shaft.
11. The clock spring coil is not a repairable unit so if it damaged or faulty the unit must be replaced.

#### Install

1. If the front wheels are not pointing straight ahead, turn the steering shaft so the front wheels are pointing straight ahead.

2. Install the air bag clock spring coil assembly on the steering shaft, positioning the unit to the two light switches. However the assembly must have the two arrow heads facing each other on the left side, if installing a used unit the assembly must be wound and set to the correct position.

\* "Setting" a used air bag clock spring coil, hold the unit with the arrow heads facing you, hold the assembly vertical with flat section at top. Turn the inner section until the spring is almost fully wound turning it anti clockwise, release pressure of the inner section and allow it to unwind by almost 3 turns so the two arrow heads are pointing at each other on the left side.

3. Connect the clock coil spring assembly wiring connectors.

4. Install the upper and lower plastic steering column covers, replace the 4 screws attaching the lower steering column cover to the upper cover.

5. Install the steering wheel, make sure the steering wheel is in the straight ahead position to match the direction the front wheels are pointing.

6. Replace the steering wheel attaching nut and washer and tighten to specification.

**Steering Wheel Attaching Nut torque: 30Nm**

7. Gently position the horn bar and air bag assembly into the vehicle, near the steering wheel so the electrical connections can be reconnected. Use the labels from removal to help installing connections.

8. Replace the 4 torx screws attaching the horn pad and air bag to the steering wheel, tighten to specification.

**Horn Pad & Air Bag Assembly Screws Torque: 10-15Nm**

9. Activate electrical system of air bag, described above.

### SENSOR

# Warning the air bag can still activate after the electrical system has been disconnected.

#### Remove

1. Deactivate the electrical system of the air bag as described above, ignition keys removed.
2. Remove the front seat by removing the 4 bolts attaching the seat to the floor pan.
3. Remove the sensor cover, 2 screws.
4. Disconnect wiring loom connector from sensor unit.
5. Remove the sensor unit from the floor pan, 2 screws.

#### Install

1. Install the sensor unit from the floor pan, 2 screws.
2. Connect the wiring loom connector to the sensor unit.
3. Remove the sensor cover, 2 screws.
4. Install the front seat, install the 4 bolts attaching the seat to the floor pan, tighten the bolts to specification.

**Front Seat Attaching Bolts: 25-35Nm**

5. Activate the electrical system of the air bag as described above.

