SRS AIRBAGS

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PRECAUTIONS

1. HANDLING AND OPERATING PRECAUTIONS

(a) Failure to carry out the service operations in the correct sequence could cause the airbag or pretensioner to unexpectedly deploy during servicing and lead to serious life-threatening injury. Furthermore, if a mistake is made when servicing, it is possible that the airbag or pretension may fail to operate properly. Before performing servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully. Then follow the correct procedures indicated in the repair manual.

2. DISCONNECT NEGATIVE BATTERY TERMINAL

(a) Check the DTC, turn the ignition switch off, disconnect the negative battery terminal and then wait at least 90 seconds before starting the operation.

(1) The airbag and pretensioner system is equipped with a back-up power source. So, if work is started within 90 seconds after disconnecting the negative battery terminal, the airbags may still be deployed.

(2) As the memory of some of the systems is cleared when the negative battery terminal is disconnected, always record the contents of each system memory before starting servicing. Reset the systems after completing the work.

(b) Turn the ignition switch off and connect the negative terminal of the battery.

3. GENERAL PRECAUTIONS

(a) Use an tester for electrical inspections.

(b) Information labels are attached to the SRS components. Follow the instructions on the labels.

(c) Never disassemble an SRS airbag.

(d) Replace any dropped, cracked, dented, broken or otherwise defective SRS components with new ones.

(e) Never use airbag or pretensioner parts from another vehicle. When replacing parts, use new parts.

(f) Do not directly expose any of the SRS components to hot air or flames.

(g) After a collision, perform a DTC check, even if the the airbag or pretensioner have not deployed.

(h) Lubricants, oil, water, or detergents of any kind should not be applied to any of the SRS components. If any of the SRS components come into contact with liquid, quickly wipe them off with a dry cloth.

(i) Store and handle the system in a location away from high temperatures [ambient temperature: 93°C or higher (pretensioner: 80°C or higher)] or humidity and that is not exposed to the effects of electrical noise.

(j) When scrapping vehicles or disposing of any parts, always use the SST to deploy the airbags and pretensioners.

HINT:

- Disposal of horn button assembly (See page RS-171.)

- Disposal of instrument panel passenger airbag assembly (See page RS-182.)
- Disposal of curtain shield airbags (See page RS-190.)
- Disposal of front seat airbag assembly (See page RS-196.)

(k) Do not measure the resistance of airbag components.

CAUTION:

This may activate the airbag and the pretensioner due to the electrical current generated by the tester, which is extremely dangerous.

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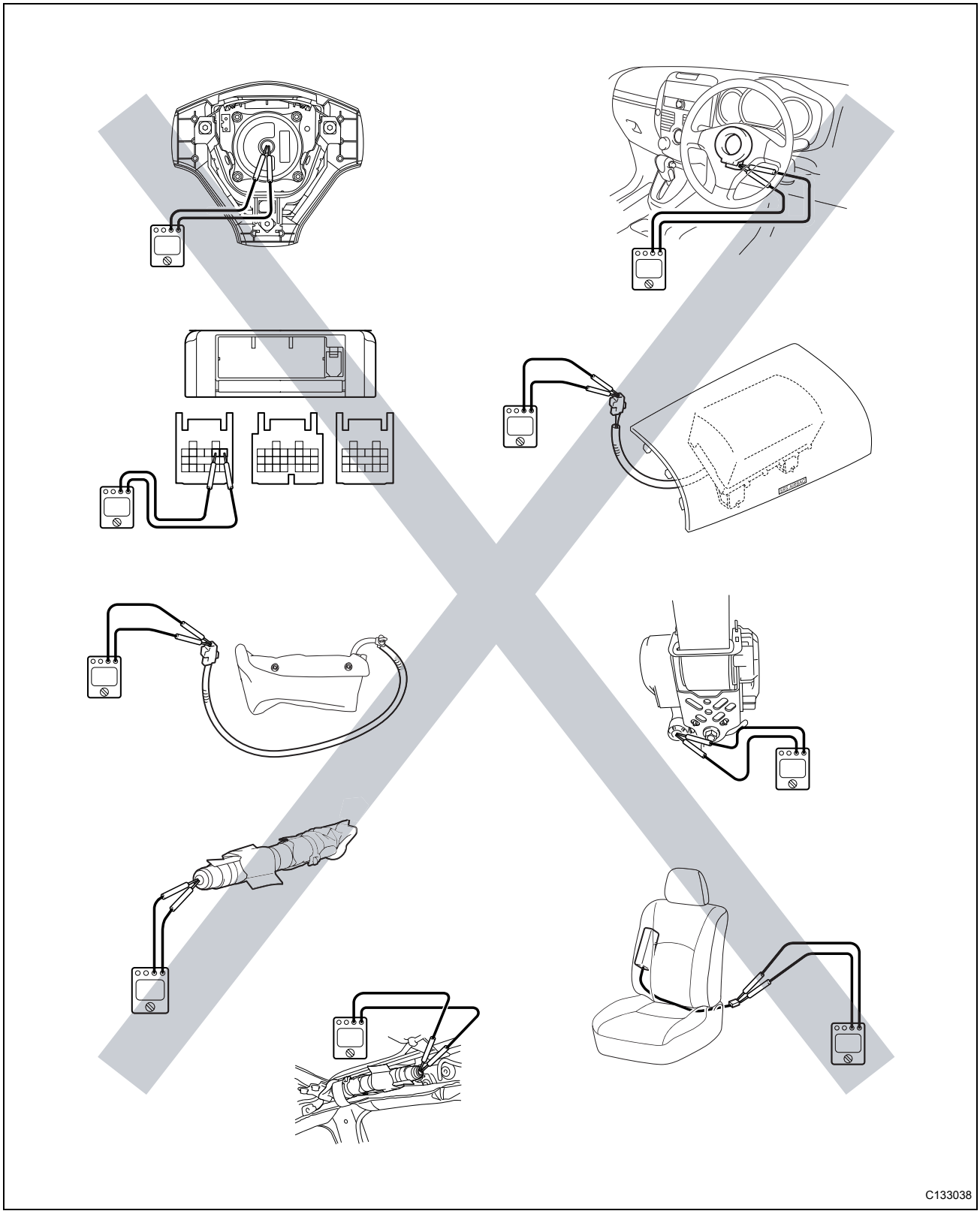


4. AIRBAG AND PRETENSIONER DISPOSAL PRECAUTIONS (BEFORE DEPLOYMENT)

(a) Do not dispose of an airbag or pretensioner that has not been activated.

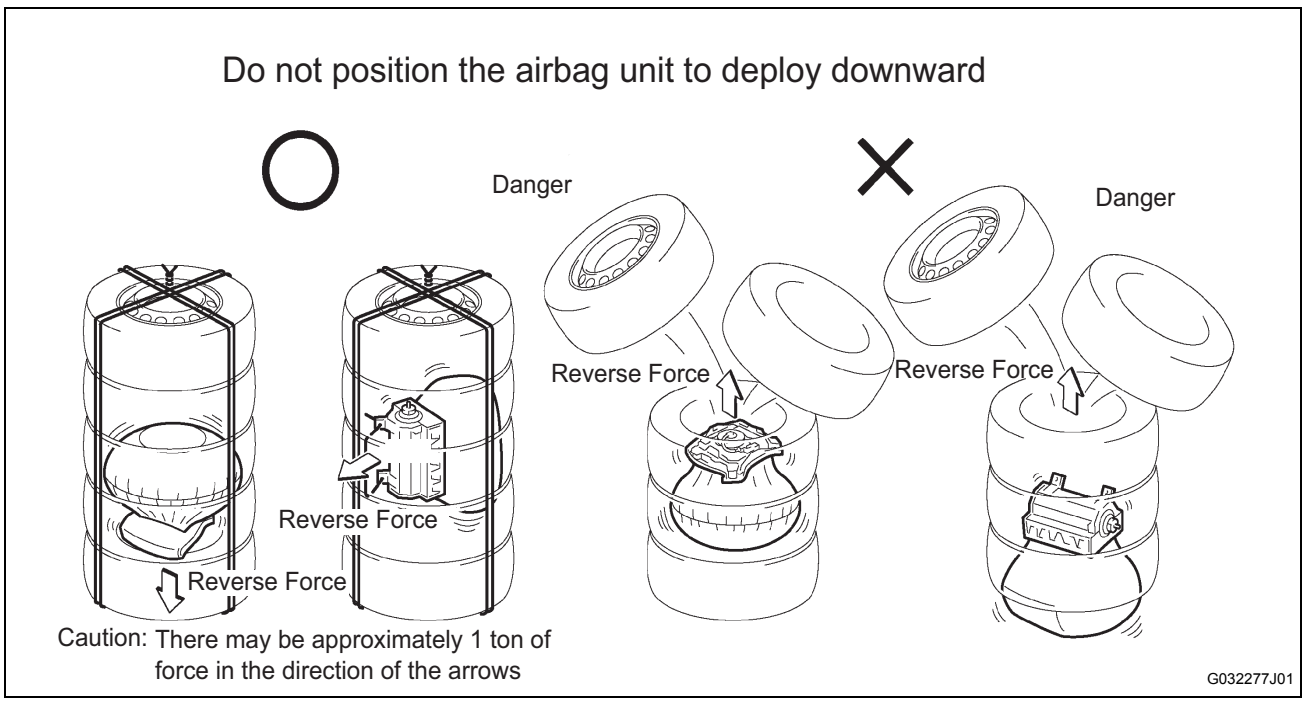
(b) Conduct work on airbags and pretensioners outside in a level location where safety can be assured. Avoid conducting this work in residential areas.

(c) As work on airbags and pretensioners is noisy, make it known to all people in the surrounding areas before proceeding.

(d) When activating an airbag or pretensioner, use an SST and stand at least 5 m away from the airbag/pretensioner.

(e) As static electricity may cause airbags and pretensioners to operate, discharge any static electricity by touching a water pipe or other steel object with a bare hand before starting work.

(f) When deploying the airbag, be careful that the airbag deployment side is not facing downward.



5. AIRBAG AND PRETENSIONER DISPOSAL PRECAUTIONS (AFTER DEPLOYMENT)

(a) Leave the airbag and the pretensioner for approximately 30 minutes after it is activated as parts of the airbag and pretensioner may reach a temperature of several hundreds of degrees Celsius after being activated.

(b) Do not apply water, etc. to a steering pad with a deployed airbag or pretensioner.

(c) Use dust-proof safety glasses and gloves when handling an airbag or a pretensioner that has been activated.

(d) Place an airbag or a pretensioner that has been activated in a strong, transparent plastic bag and seal the bag for disposal.

(e) Always wash your hands with water after completing work.

6. PRECAUTIONS FOR HORN BUTTON ASSEMBLY (DRIVER SEAT AIRBAG), INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY (PASSENGER SEAT SIDE AIRBAG), FRONT SEAT

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OUTER BELT ASSEMBLY (PRETENSIONER), FRONT SEAT AIRBAG ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Be sure to keep the deployment side facing upwards when working, even if it is only removing the assembly momentarily.

CAUTION:

Operating the airbag, for any reason, with the deployment side facing downward may lead to serious, life-threatening injury.

(b) When storing airbags, do not place anything on top of them. Also, do not stack airbags on top of each other.

7. PRECAUTIONS FOR SPIRAL CABLE

(a) Be sure to center the spiral cable when installing the spiral cable and attaching or removing the steering wheel. (See page RS-178.)

NOTICE:

If the steering wheel is operated without the spiral cable having been centered, the spiral cable may break or become disconnected.

8. PRECAUTIONS FOR AIRBAG ASSEMBLY, FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR ASSEMBLY AND SIDE AIRBAG SENSOR NO. 2

(a) Be sure to replace the sensor assembly (airbag computer assembly, front side and rear as a set) if the vehicle has been involved in a collision in which the airbag was deployed and the pretensioner was activated (even if only the airbag was deployed or only the pretensioner was activated).

9. PRECAUTIONS FOR WIRE HARNESS AND CONNECTORS

(a) All wire harnesses in the engine room are yellow with the exception of those that are not visible.

(b) Be careful when handling the connectors, as special types of connectors are used.

10. PROCEDURE FOR VEHICLES DAMAGED IN COLLISION

(a) When using electric welders on the vehicle, disconnect the airbags and pretensioners before performing work.

(b) Remove the airbag computer assembly, front airbag sensor, side airbag sensor assembly and side airbag sensor no. 2 if there is any chance they will be subject to shock.

(c) Do not expose the airbag computer assembly, front airbag sensor, side airbag sensor assembly or side airbag sensor no. 2 to high temperatures.

(d) As some parts of the airbag and pretensioner may reach temperatures of several hundred degrees Celsius, check that the surrounding wire harnesses and connectors are not melted or otherwise damaged.

11. CASES WHEN INSPECTION OF AIRBAG AND PRETENSIONER IS NECESSARY

(a) When the the vehicle has been damaged in a collision or similar, even if the airbag has not been deployed and the pretensioner has not been activated.

(b) When a DTC has been output.