

## FOR ALL OF VEHICLES PRECAUTION

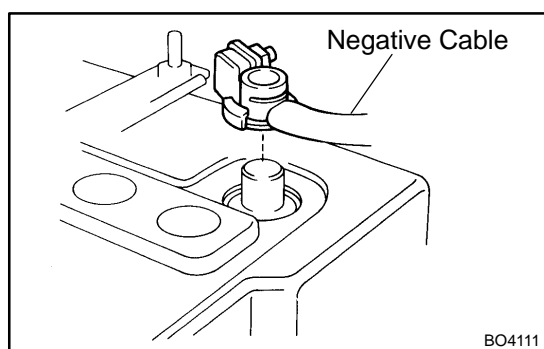
INOKM-01

### 1. FOR VEHICLES EQUIPPED WITH SRS AIRBAG AND SEAT BELT PRETENSIONER

- (a) The TOYOTA TUNDRA is equipped with an SRS (Supplemental Restraint System), such as the driver airbag, front passenger airbag assembly and seat belt pretensioner.

Failure to carry out service operations in the correct sequence could cause the supplemental restraint system to unexpectedly deploy during servicing, possibly leading to a serious accident.

Further, if a mistake is made in servicing the supplemental restraint system, it is possible the SRS may fail to operate when required. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully, then follow the correct procedure described in this manual.



### (b) GENERAL NOTICE

- (1) Malfunction symptoms of the supplemental restraint system are difficult to confirm, so the diagnostic trouble codes become the most important source of information when troubleshooting. When troubleshooting the SRS, always check the diagnostic trouble codes before disconnecting the battery (see page [DI-1810](#)).

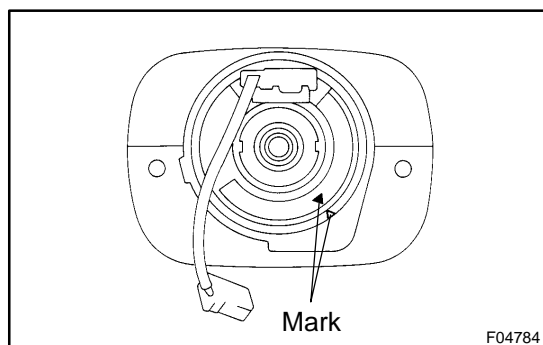
- (2) Work must be started after 90 seconds from the time the ignition switch is turned to the LOCK position and the negative (–) terminal cable is disconnected from the battery.

(The supplemental restraint system is equipped with a back-up power source because if work is started within 90 seconds of disconnecting the negative (–) terminal cable from the battery, the SRS may deploy.)

When the negative (–) terminal cable is disconnected from the battery, memory of the clock and audio systems will be cancelled. So before starting work, make a record of the contents memorized in each memory system. When work is finished, reset the clock and audio systems as before.

To avoid erasing the memory of each memory system, never use a back-up power supply from another battery.

- (3) Even in case of a minor collision where the SRS does not deploy, the steering wheel pad (see page [RS-24](#)), front passenger airbag assembly (see page [RS-38](#)), side airbag assembly (see page [RS-77](#), [RS-52](#) or [RS-67](#)) curtain shield airbag assembly (see page [RS-85](#)) and seat belt pretensioner (see page [BO-241](#)) should be inspected.
- (4) Never use SRS parts from another vehicle. When replacing parts, replace them with new ones.
- (5) Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- (6) Never disassemble or repair the airbag sensor assembly, steering wheel pad, front passenger airbag assembly or seat belt pretensioner.
- (7) If the airbag sensor assembly, steering wheel pad, front passenger airbag assembly or seat belt pretensioner has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- (8) Do not directly expose the airbag sensor assembly, steering wheel pad, front passenger airbag assembly or seat belt pretensioner to hot air or flames.
- (9) Use a voltmeter/ohmmeter with high impedance (10 k $\Omega$ /V minimum) for troubleshooting of the electrical circuit.
- (10) Information labels are attached to the periphery of the SRS components. Follow the instructions on the labels.
- (11) After work on the supplemental restraint system is completed, check the SRS warning light (see page [DI-1855](#)).



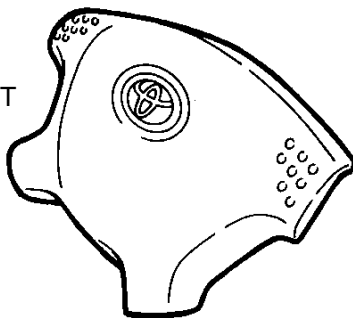
- (c) SPIRAL CABLE (in Combination Switch)
- The steering wheel must be fitted correctly to the steering column with the spiral cable at the neutral position, otherwise cable disconnection and other troubles may result. Refer to [SR-28](#) or [SR-42](#) concerning correct steering wheel installation.

## (d) STEERING WHEEL PAD (with Airbag)

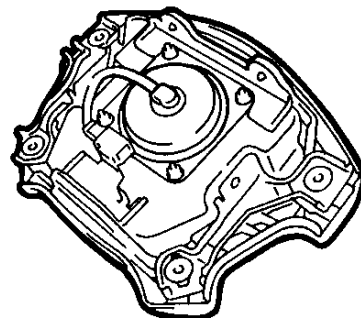
- (1) When removing the steering wheel pad or handling a new steering wheel pad, it should be placed with the pad top surface facing up.  
Storing the pad with its metallic surface upward may lead to a serious accident if the airbag inflates for some reason. In addition, do not store a steering wheel pad on top of another one.
- (2) Never measure the resistance of the airbag squib. This may cause the airbag to deploy, which could cause serious injury.
- (3) Grease or detergents of any kind should not be applied to the steering wheel pad.
- (4) Store the steering wheel pad where the ambient temperature remains below 93°C (200°F), with low humidity and away from electrical noise.
- (5) Before using an electric welder, first disconnect the airbag connector (the connector is yellow and has 4 pins) under the steering column near the combination switch connector.
- (6) As a safety measure, always deploy airbags using an SST before disposal (see page [RS-25](#)).  
Deploy airbags in a safe place away from electrical noise.

**Example:**

CORRECT

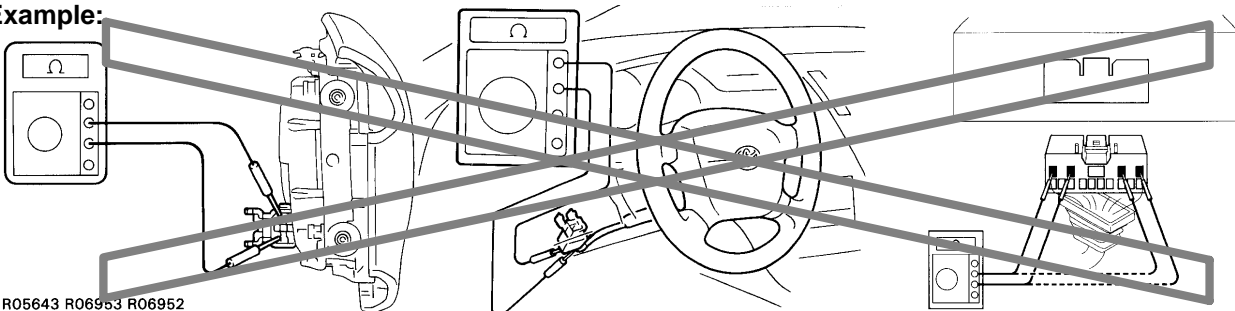


WRONG



F14450

B13595

**Example:**

R05643 R06953 R06952

Z13950

## (e) FRONT PASSENGER AIRBAG ASSEMBLY

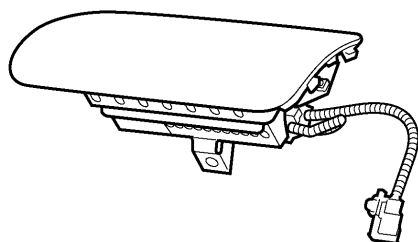
- (1) Always store a removed or new front passenger airbag assembly with the airbag deployment side facing up.

Storing the airbag assembly with the airbag deployment side facing down could cause a serious accident if the airbag inflates.

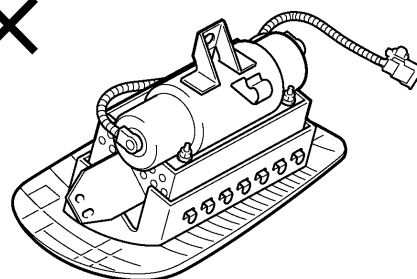
- (2) Never measure the resistance of the airbag squib. This may cause the airbag to deploy, which could cause serious injury.
- (3) Grease or detergents of any kind should not be applied to the steering wheel pad.
- (4) Store the steering wheel pad where the ambient temperature remains below 93°C (200°F), with low humidity and away from electrical noise.
- (5) Before using an electric welder, first disconnect the airbag connector (the connector is yellow and has 4 pins) under the steering column near the combination switch connector.
- (6) As a safety measure, always deploy airbags using an SST before disposal (see page [RS-39](#)). Deploy airbags in a safe place away from electrical noise.

**Example:**

Correct

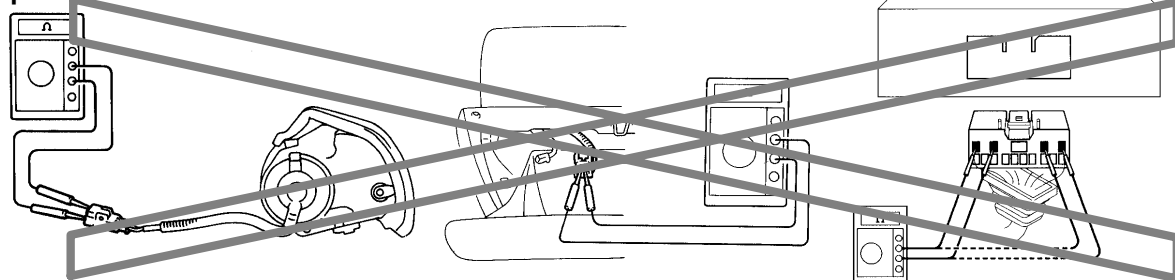


Wrong



C

B12629

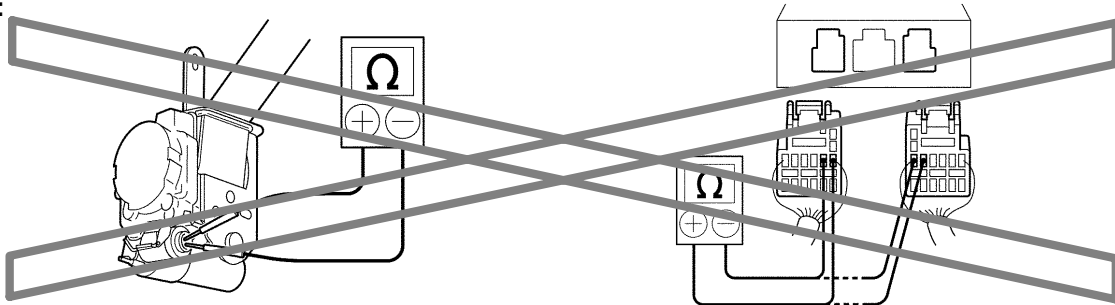
**Example:**

R05648 R05649 R06952

Z13951

## (f) SEAT BELT PRETENSIONER

- (1) Never measure the resistance of the seat belt pretensioner. This may cause the seat belt pretensioner to activate, which could cause serious injury.
- (2) Never disassemble the seat belt pretensioner.
- (3) Never install the seat belt pretensioner in another vehicle.
- (4) Store the seat belt pretensioner where the ambient temperature remains below 80°C (176°F), with low humidity and away from electrical noise.
- (5) Before using an electric welder, first disconnect the connector (the connector is yellow and has 2 pins).
- (6) As a safety measure, always activate the seat belt pretensioner before disposal (see page [BO-245](#)). Activate the pretensioner in a safe place away from electrical noise.
- (7) The seat belt pretensioner becomes hot after activation. Allow it to cool before disposing. Never use water to cool the seat belt pretensioner.

**Example:**

B02121

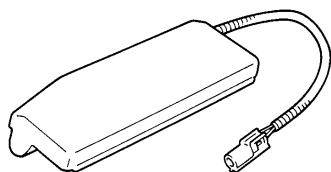
## (g) SIDE AIRBAG ASSEMBLY

- (1) Always store a removed or new side airbag assembly with the airbag deployment side facing up. Storing the airbag assembly with the airbag deployment side facing down could cause a serious accident if the airbag inflates.
- (2) Never measure the resistance of the airbag squib (This may cause the airbag to deploy, which is very dangerous.).
- (3) Grease should not be attached to the side airbag assembly and the surface should not be cleaned with any kind of detergents.
- (4) Store the airbag assembly where the ambient temperature remains below 93°C (200°F), without high humidity and away from electrical noise.
- (5) When using electric welding, first disconnect the airbag connector (yellow color and 2 pins) under the seat before starting work.
- (6) When disposing of a vehicle or the side airbag assembly alone, the airbag should be deployed using an SST before disposal (See page [RS-78](#), [RS-53](#) or [RS-68](#)).

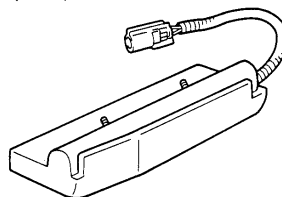
Perform the operation in a safe place away from electrical noise.

**Example:**

Correct

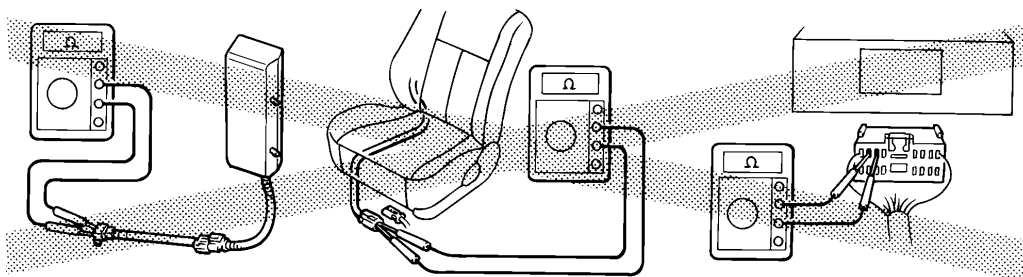


Wrong



B02129

**Example:**



B01546

## (h) CURTAIN SHIELD AIRBAG ASSEMBLY

- (1) Always store a removed or new curtain shield airbag assembly in a clear plastic bag, and keep it in a safe place.

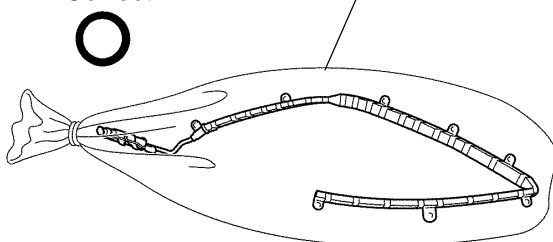
**NOTICE:****Protection bag is not reused.****CAUTION:****Never disassemble the curtain shield airbag assembly**

- (2) Never measure the resistance of the airbag squib (This may cause the airbag to deploy, which is very dangerous.).
- (3) Grease should not be attached to the curtain shield airbag assembly and the surface should not be cleaned with any kind of detergents.
- (4) Store the airbag assembly where the ambient temperature remains below 93°C (200°F), without high humidity and away from electrical noise.
- (5) When using electric welding, first disconnect the airbag connector (yellow color and 2 pins) into the instrument panel before starting work.
- (6) When disposing of a vehicle or the curtain shield airbag assembly alone, the airbag should be deployed using an SST before disposal (See page [RS-86](#)). Perform the operation in a safe place away from electrical noise.

**Example:**

Correct

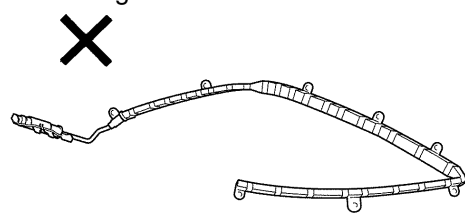
Clear Plastic Bag



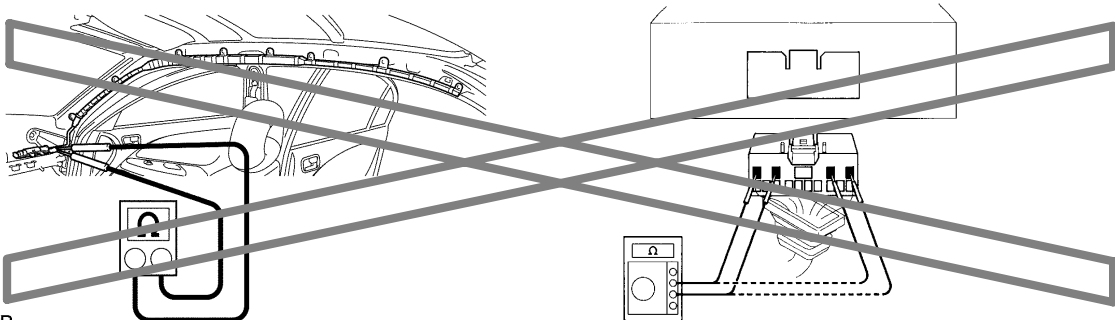
P

H11622 H12060

Wrong



B08604

**Example:**

H12059R06952

P

B08605

## (i) AIRBAG SENSOR ASSEMBLY

- (1) If an airbag sensor assembly has been involved in a collision where its SRS has deployed, do not re-use it.
- (2) The connectors to the airbag sensor assembly should be connected or disconnected with the sensor mounted on the floor. Failure to do so could cause undesired deployment of the SRS.
- (3) To avoid serious injury, servicing the SRS must be started 90 seconds after:
  - The ignition switch is turned to the LOCK position.
  - The negative (–) terminal cable is disconnected from the battery.

Even if only loosening the set bolts of the airbag sensor assembly, you must follow the above guidelines.

## (j) WIRE HARNESS AND CONNECTOR

The SRS wire harness is integrated with the instrument panel wire harness assembly. All the connectors in the system are a standard yellow color. If the SRS wire harness becomes disconnected or the connector becomes broken, etc., repair or replace it as shown on page [RS-139](#).



## **2. FOR VEHICLES EQUIPPED WITH A CATALYTIC CONVERTER**

### **CAUTION:**

**If large amounts of unburned gasoline flow into the converter, it may overheat and create a fire hazard. To prevent this, observe the following precautions and explain them to your customer.**

- (a) Use only unleaded gasoline.
- (b) Avoid prolonged idling.  
Avoid idling the engine for more than 20 minutes.
- (c) Avoid spark jump test.
  - (1) Perform spark jump tests only when absolutely necessary. Perform this test as rapidly as possible.
  - (2) While testing, never race the engine.
- (d) Avoid prolonged engine compression measurement.  
Engine compression tests must be done as rapidly as possible.
- (e) Do not run engine when the fuel tank is nearly empty.  
This may cause the engine to misfire and create an extra load on the converter.
- (f) Avoid coasting with ignition turned off.
- (g) Do not dispose of used catalyst with gasoline or oil contaminated parts.

## **3. IF VEHICLE IS EQUIPPED WITH MOBILE COMMUNICATION SYSTEM**

For vehicles with mobile communication systems such as two-way radios and cellular telephones, observe the following precautions.

- (1) Install the antenna as far away as possible from the ECU and sensors of the vehicle's electronic system.
- (2) Install the antenna feeder at least 20 cm (7.87 in.) away from the ECU and sensors of the vehicle's electronic systems. For details about ECU and sensor locations, refer to the applicable component's section.
- (3) Avoid winding the antenna feeder together with other wiring as much as possible, and also avoid running the antenna feeder parallel with other wire harnesses.
- (4) Check that the antenna and feeder are correctly adjusted.
- (5) Do not install powerful mobile communications system.

## **4. FOR USING OBD II SCAN TOOL OR HAND-HELD TESTER**

### **CAUTION:**

**Observe the following items for safety reasons:**

- **Before using the hand-held tester or OBD II scan tool, the hand-held tester's operator manual or OBD II scan tool's instruction book should be read thoroughly.**
- **Be sure to route all cables securely when driving with the hand-held tester or OBD II scan tool connected to the vehicle. (I.e. keep cables away from feet, pedals, steering wheel and shift lever.)**
- **Two persons are required when test-driving with the hand-held tester or OBD II scan tool: one person to drive the vehicle and another to operate the hand-held tester or OBD II scan tool.**