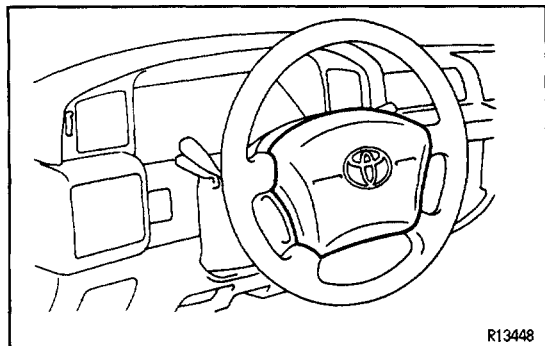
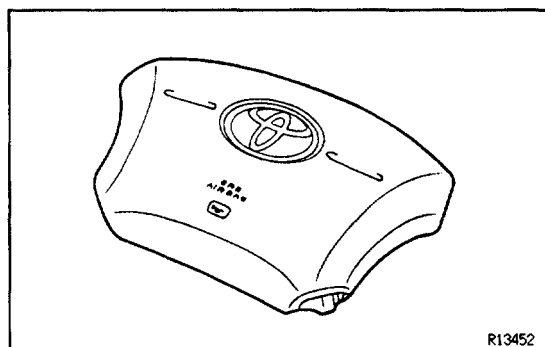




STEERING WHEEL PAD AND SPIRAL CABLE INSPECTION ITEMS

1. VEHICLES NOT INVOLVED IN A COLLISION

- (a) Do a diagnostic system check.
(See page [RS-38](#))
- (b) Do a visual check which includes the following items with the steering wheel pad (with airbag) installed in the vehicle.
 - Check for cuts, minute cracks or marked discoloration of the steering wheel pad top surface and grooved portion.



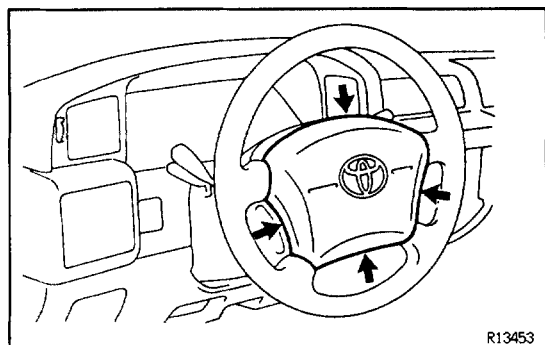
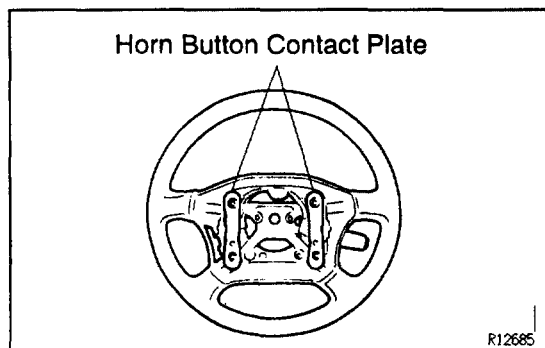
2. VEHICLES INVOLVED IN A COLLISION IF THE AIRBAG IS NOT DEPLOYED

- (a) Do a diagnostic system check.
(See page [RS-38](#))
- (b) Do a visual check which includes the following items with the steering wheel pad (with airbag) removed from the vehicle.
 - Check for cuts and cracks in, or marked discoloration of, the steering wheel pad top surface and its grooved portion.
 - Check for cuts and cracks in wire harnesses, and for chipping in connectors.
 - Check for deformation of the horn button contact plate of the steering wheel.

HINT:

- If the horn button contact plate of the steering wheel is deformed, never repair it. Always replace the steering wheel assembly with a new one.
- There should be no interference between the steering wheel pad and the steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.

CAUTION: For removal and installation of the steering wheel pad, see the SR section and be sure to follow the correct procedure.



IF THE AIRBAG IS DEPLOYED

- (a) Do a diagnostic system check.
(See page [RS-38](#))
- (b) Do a visual check which includes the following items with the steering wheel pad (with airbag) removed from the vehicle.
 - Check for deformation of the horn button contact plate of the steering wheel.
 - Check for damage to the spiral cable connector and wire harness.

HINT:

- If the horn button contact plate of the steering wheel is deformed, never repair it. Always replace the steering wheel assembly with a new one.
- There should be no interference between the steering wheel pad and the steering wheel, and the clearance should be uniform all the way around when the new steering wheel pad is installed on the steering wheel.

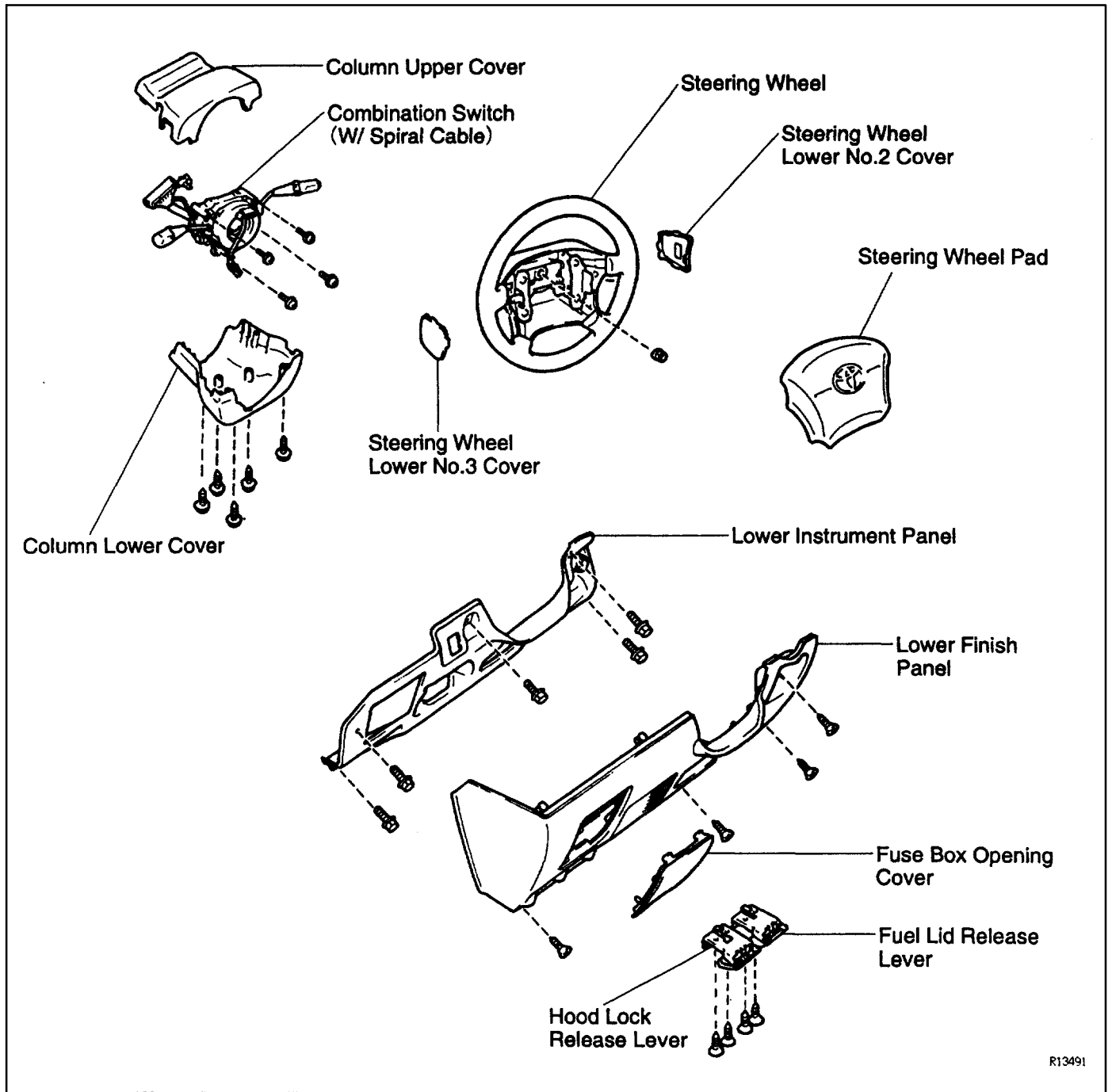
REPLACEMENT REQUIREMENTS

In the following cases, replace the steering wheel pad, steering wheel or spiral cable.

- If the airbag has been deployed.
- If the steering wheel pad or spiral cable has been found to be faulty in troubleshooting.
- If the steering wheel pad, steering wheel or spiral cable has been found to be faulty during the check in items 1–(b) or 2–(b).
- If the steering wheel pad has been dropped.

CAUTION: For replacement of the steering wheel pad, see the SR section and be sure to follow the correct procedure.

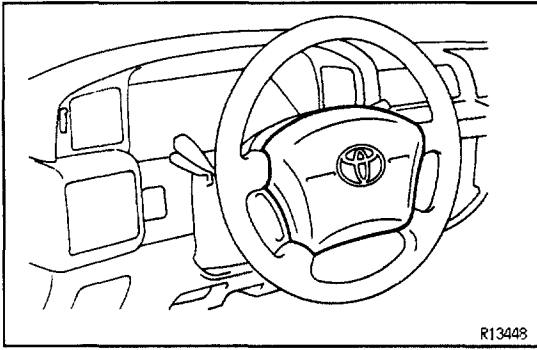
COMPONENTS



R13491

STEERING WHEEL PAD AND SPIRAL CABLE REMOVAL AND INSTALLATION

(See SR section)

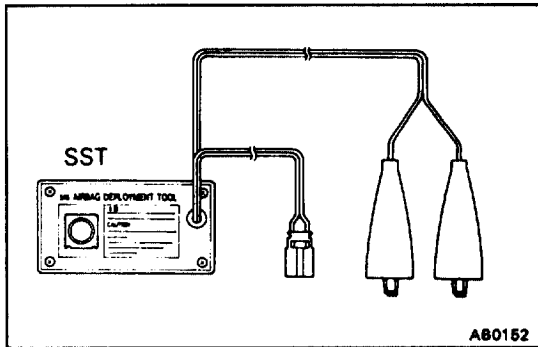


STEERING WHEEL PAD (WITH AIRBAG) DISPOSAL

When scrapping vehicles equipped with an SRS or disposing of a steering wheel pad (with airbag), always first deploy the airbag in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC..

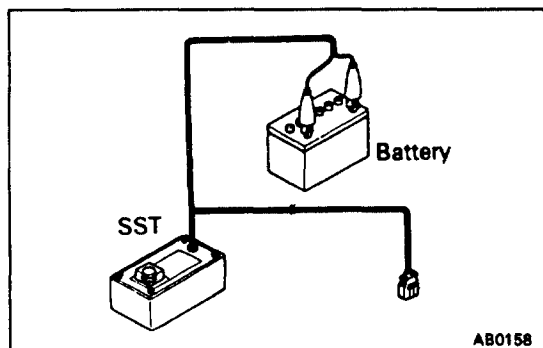
Never dispose of a steering wheel pad which has an undeployed airbag.

When disposing of a steering wheel pad with an airbag deployed in a collision, follow the same procedure given under "When scrapping vehicle, step 4. DISPOSAL OF STEERING WHEEL PAD (WITH AIRBAG)" (See page [RS-14](#)).



PRECAUTIONS FOR AIRBAG DEPLOYMENT

- The airbag produces a sizeable exploding sound when it deploys, so perform the operation out-of-doors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST; SRS AIRBAG DEPLOYMENT TOOL (SST 09082-00700). Perform the operation in a place away from electrical noise.
- When deploying an airbag, perform the operation from at least 10 m (33 ft) away from the steering wheel pad.
- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering wheel pad with deployed airbag.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a steering wheel pad with deployed airbag.



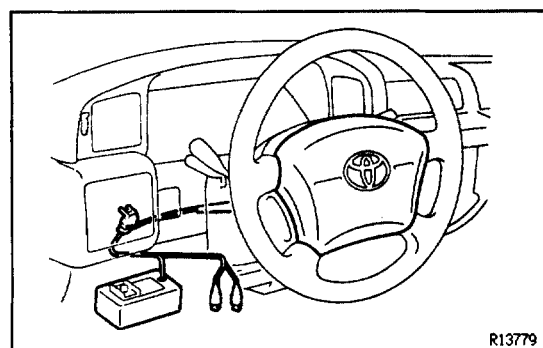
When scrapping vehicle

HINT: Have a battery ready as the power source to deploy the airbag.

1. CONFIRM FUNCTIONING OF SST

(See page RS-18)

SST 09082-00700

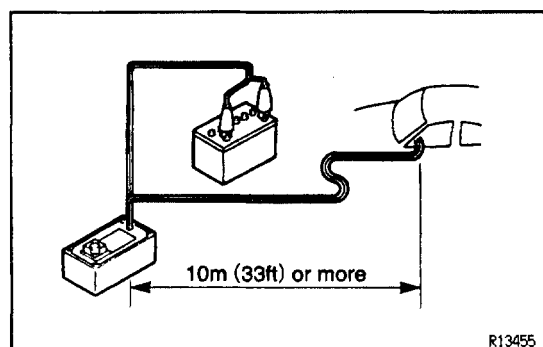


2. INSTALL SST

CAUTION: Check that there is no looseness in the steering wheel and steering wheel pad.

- Remove the under cover No.1.
- Disconnect the airbag connector of the spiral cable.
- Connect the SST connector to the airbag connector of the spiral cable.

SST 09082-00700

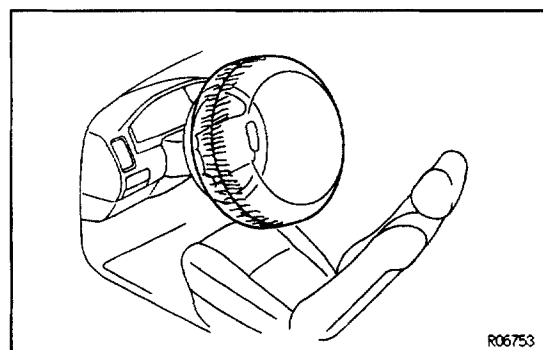


- Move the SST to at least 10 m (33 ft) from the front of the vehicle.

- Close all the doors and windows of the vehicle.

NOTICE: Take care not to damage the SST wire harness.

- Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.



3. DEPLOY AIRBAG

- Confirm that no-one is inside the vehicle or within 10 m (33 ft) of the vehicle.

- Press the SST activation switch and deploy the airbag.

HINT: The airbag deploys simultaneously as the LED of the SST activation switch lights up.

4. DISPOSAL OF STEERING WHEEL PAD (WITH AIRBAG)**CAUTION:**

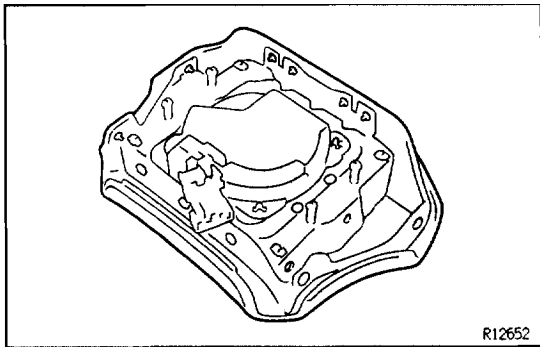
- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
 - Use gloves and safety glasses when handling a steering wheel pad with deployed airbag.
 - Do not apply water, etc. to a steering wheel pad with deployed airbag.
 - Always wash your hands with water after completing the operation.
- (a) When scrapping a vehicle, deploy the airbag and scrap the vehicle with the steering wheel pad still installed.
- (b) When moving a vehicle for scrapping which has a steering wheel pad with deployed airbag, use gloves and safety glasses.

When disposing of steering wheel pad only

When disposing of the steering wheel pad (with airbag) only, never use the customer's vehicle to deploy the airbag.

Remove the steering wheel pad from the vehicle and be sure to follow the procedure given below when deploying the airbag.

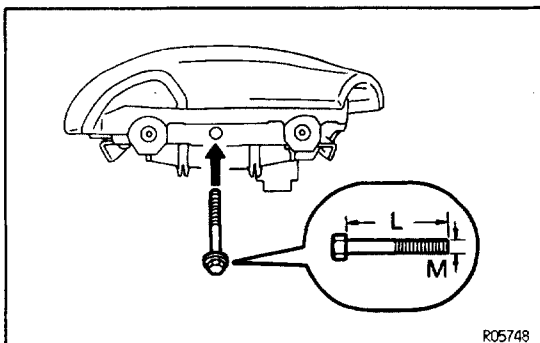
HINT: Have a battery ready as the power source to deploy the airbag.

**1. REMOVE STEERING WHEEL PAD (See SR section)****CAUTION:**

- When storing the steering wheel pad, keep the upper surface of the pad facing upward.

2. REMOVE STEERING WHEEL PAD CONNECTOR

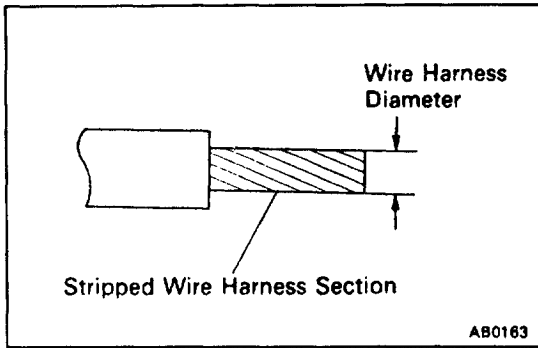
Remove the connector on the steering wheel pad rear surface from the inflator cover.

**3. FIX STEERING WHEEL PAD TO DISC WHEEL WITH TIRE**

- (a) Install the 2 bolts with washer in the 2 bolt holes in the steering wheel pad.

Bolt:

L	35.0 mm (1.378 in.)
M	6.0 mm (0.236 in.)
Pitch	1.0 mm (0.039 in.)



NOTICE:

- Tighten the bolts by hand until the bolts become difficult to turn.
 - Do not tighten the bolts too much.
- (b) Using a service-purpose wire harness for the vehicle tie down the steering wheel pad to the disc wheel.

Wire harness: Stripped wire harness section
1.25 mm² or more (0.0019 in² or more)

HINT: To calculate the square of the stripped wire harness section -

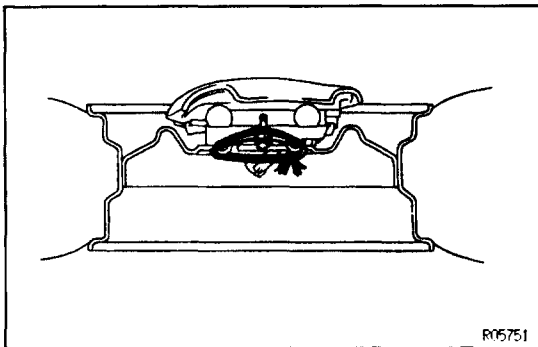
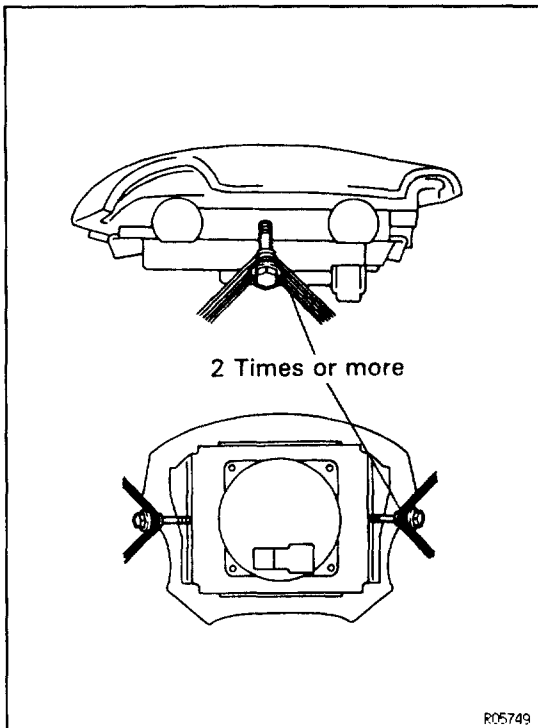
Square = 3.14 x (Diameter)² divided by 4

CAUTION: If a wire harness which is too thin or some other thing is used to tie down the steering wheel pad, it may be snapped by the shock when the airbag is deployed. This is highly dangerous. Always use a wire harness for vehicle use which is at least 1.25 mm² (0.0019 in²).

- (1) Using 3 wire harnesses, wrap the wire harnesses at least 2 times each around the bolts installed on the left and right sides of the steering wheel pad.

CAUTION:

- Tightly wind the wire harness around the bolts so that there is no slack.
- If there is slackness in the wire harness, the steering wheel pad may come loose due to the shock when the airbag is deployed. This is highly dangerous.

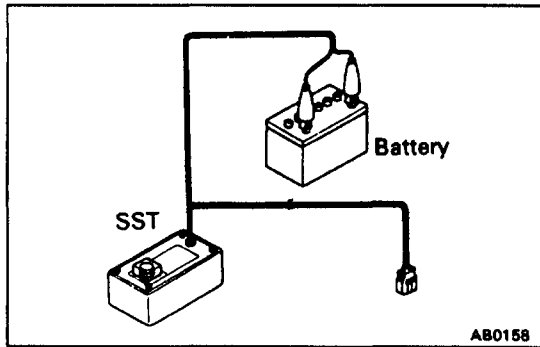


- (2) Face the upper surface of the steering wheel pad upward. Separately tie the left and right sides of the steering wheel pad to the disc wheel through the hub nut holes. Position the steering wheel pad connector so that it hangs downward through a hub hole in the disc wheel.

CAUTION:

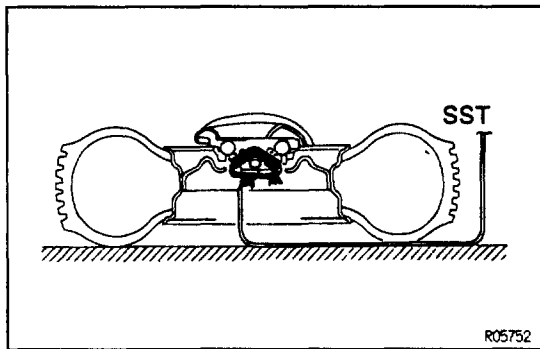
- Make sure that the wire harness is tight. It is very dangerous if looseness in the wire harness results in the steering wheel pad coming free through the shock of the airbag deploying.
- Always tie down the steering wheel pad with the pad side facing upward. It is very dangerous if the steering wheel pad is tied down with the metal surface facing upward as the wire harness will be cut by the shock of the airbag deploying and the steering wheel pad will be thrown into the air.

HINT: The disc wheel will be marked by airbag deployment, so use a redundant disc wheel.

**4. CONFIRM FUNCTIONING OF SST**

(See page [RS-18](#))

SST 09082-00070

**5. INSTALL SST**

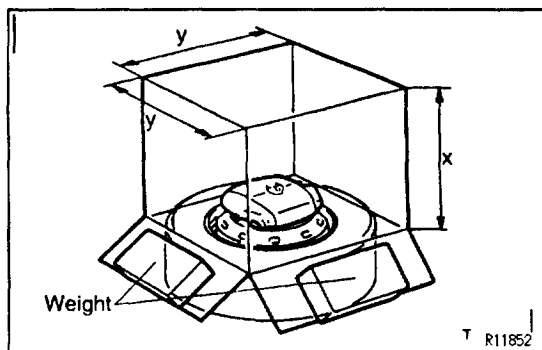
CAUTION: Place the disc wheel on level ground.

- (a) Connect the SST connector to the steering wheel pad connector.

SST 09082-00700

NOTICE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, provide some slack for the SST wire harness inside the disc wheel.

- (b) Move the SST to at least 10 m (33 ft) away from the steering wheel pad tied down on the disc wheel.



6. COVER STEERING WHEEL PAD WITH CARDBOARD BOX OR TIRES

(Covering Method Using Cardboard Box)

Cover the steering wheel pad with the cardboard box and weight the cardboard box down in 4 places with at least 196 N (20 kg, 44 lb).

Size of cardboard box:

Must exceed the following dimensions –

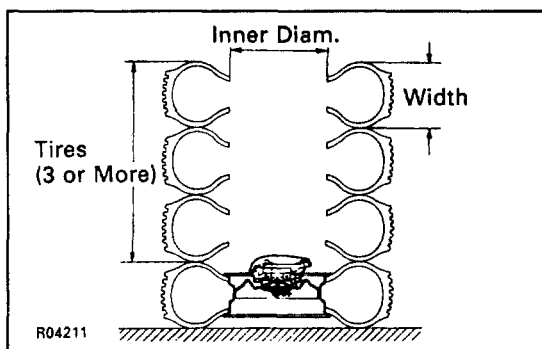
$x = 460 \text{ mm (18.11 in.)}$

When dimension y of the cardboard box exceeds the diameter of the disc wheel with tire the steering wheel pad is tied to –

$x = 460 \text{ mm (18.11 in.)} + \text{width of tire}$

$y = 650 \text{ mm (25.59 in.)}$

NOTICE: If a cardboard box smaller than the size specified is used, the cardboard box will be broken by the shock of the airbag deployment.



Covering Method Using Tires:

Place at least 3 tires without disc wheel on top of the disc wheel with tire to which the steering wheel pad is tied.

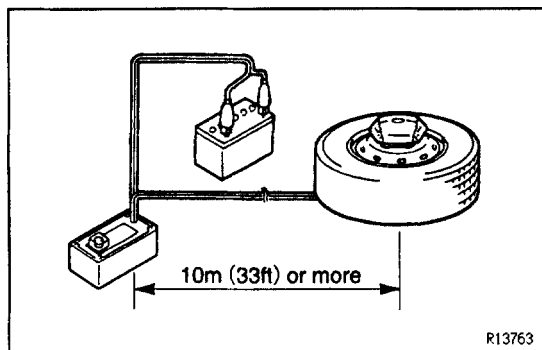
Tire size: Must exceed the following dimensions –

Width 185 mm (7.28 in.)

Inner diam 360 mm (14.17 in.)

CAUTION: Do not use tires with disc wheels.

NOTICE: The tires may be marked by the airbag deployment, so use redundant tires.



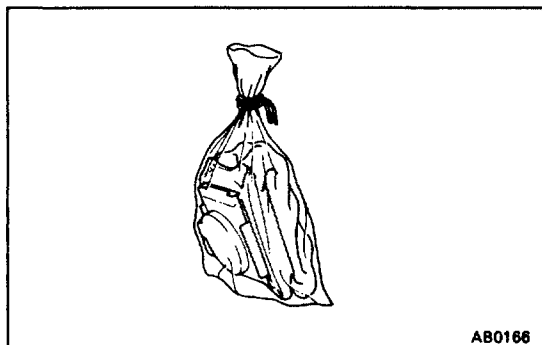
7. AIRBAG DEPLOYMENT

- Connect the SST red clip to the battery positive (+) terminal and the black clip to the battery negative (–) terminal.
 - Confirm that no-one is within 10 m (33 ft) of the disc wheel the steering wheel pad is tied to.
 - Press the SST activation switch and deploy the airbag.
- HINT:** The airbag deploys simultaneously as the LED of the SST activation switch lights up.

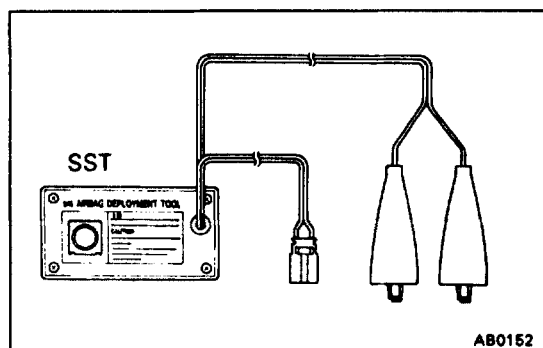
8. DISPOSAL OF STEERING WHEEL PAD (WITH AIRBAG)

CAUTION:

- The steering wheel pad is very hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering wheel pad with deployed airbag.

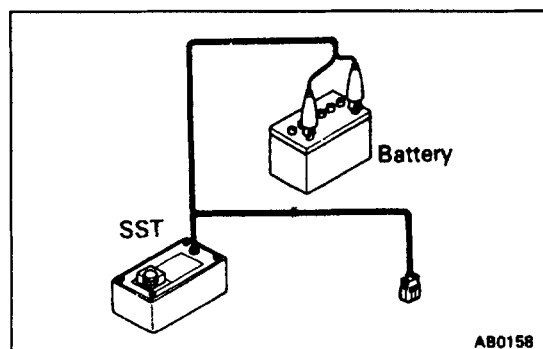


- Do not apply water, etc. to a steering wheel pad with deployed airbag.
 - Always wash your hands with water after completing the operation.
- (a) Remove the steering wheel pad from the disc wheel.
- (b) Place the steering wheel pad in a vinyl bag, tie the end tightly and dispose of it the same way as other general parts.



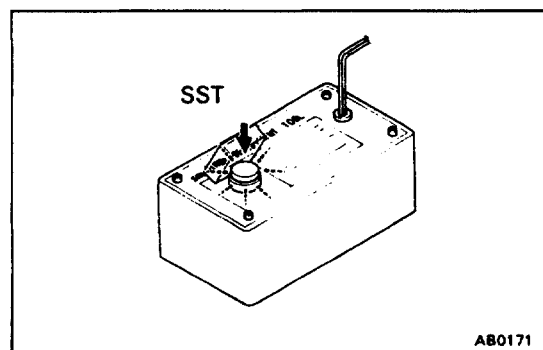
CONFIRM FUNCTIONING OF SST

When deploying the airbag, always use the specified SST: SRS AIRBAG DEPLOYMENT TOOL.
SST 09082-00700



1. CONNECT SST TO BATTERY

Connect the red clip of the SST to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
HINT: Do not connect the yellow connector which connects with the supplemental restraint system.



2. CONFIRM FUNCTIONING OF SST

Press the SST activation switch, and confirm the LED of the SST activation switch lights up.

CAUTION: If the LED lights up when the activation switch is not being pressed, SST malfunction is probable, so definitely do not use the SST.