

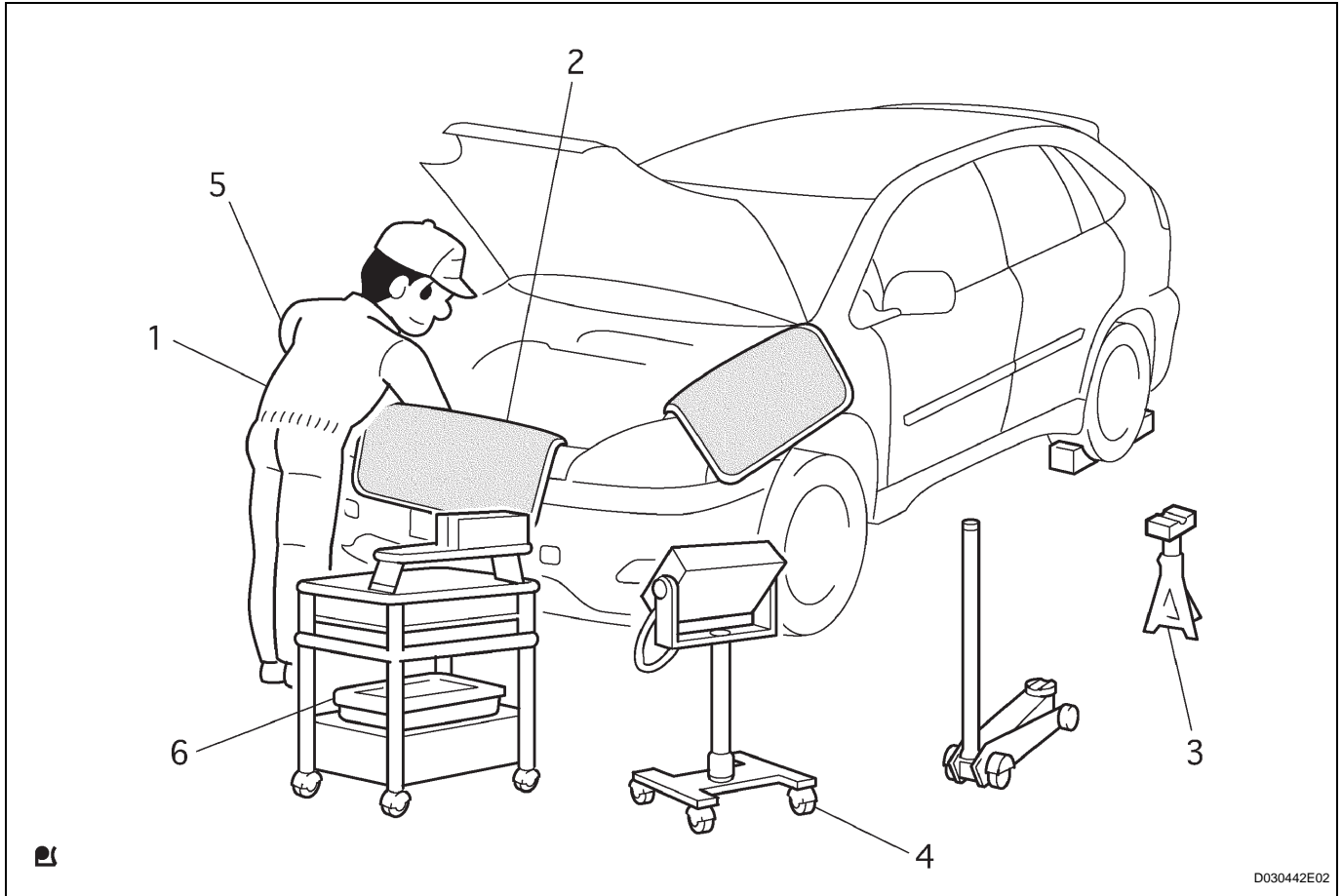
REPAIR INSTRUCTION

PRECAUTION

1. BASIC REPAIR HINT

(a) HINTS ON OPERATIONS

IN

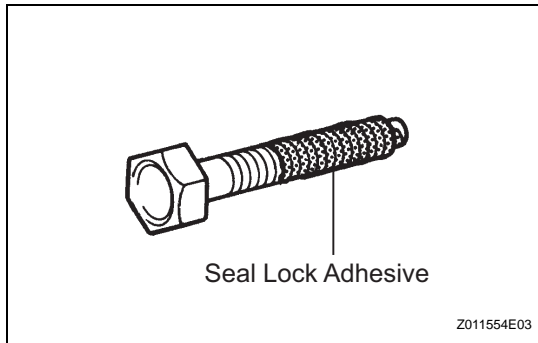


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1	Attire	<ul style="list-style-type: none"> • Always wear a clean uniform. • Hat and safety shoes must be worn.
2	Vehicle protection	Prepare a grille cover, fender cover, seat cover and floor mat before starting the operation.
3	Safety operation	<ul style="list-style-type: none"> • When working with 2 or more persons, be sure to check safety for one another. • When working with the engine running, make sure to provide ventilation for exhaust fumes in the workshop. • If working on high temperature, high pressure, rotating, moving, or vibrating parts, wear appropriate safety equipment and take extra care not to injure yourself or others. • When jacking up the vehicle, be sure to support the specified location with a safety stand. • When lifting up the vehicle, use appropriate safety equipment.
4	Preparation of tools and measuring gauge	Before starting operation, prepare a tool stand, SST, gauge, oil and parts for replacement.
5	Removal and installation, disassembly and assembly operations	<ul style="list-style-type: none"> • Diagnose with a thorough understanding of proper procedures and of the reported problem. • Before removing the parts, check the general condition of the assembly and for deformation and damage. • When the assembly is complicated, take notes. For example, note the total number of electrical connections, bolts, or hoses removed. Add matchmarks to insure reassembly of components in the original positions. Temporarily mark hoses and their fittings if needed. • Clean and wash the removed parts if necessary and assemble them after a thorough check.

6	Removed parts	<ul style="list-style-type: none"> Place the removed parts in a separate box to avoid mixing them up with the new parts or contaminating the new parts. For non-reusable parts such as gaskets, O-rings, and self-locking nuts, replace them with new ones as instructed in this manual. Retain the removed parts for customer inspection, if requested.
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IN



(b) JACKING UP AND SUPPORTING VEHICLE

- Care must be taken when jacking up and supporting the vehicle. Be sure to lift and support the vehicle at the proper locations.

(c) PRECOATED PARTS

- Precoated parts are bolts and nuts that are coated with a seal lock adhesive at the factory.
- If a precoated part is retightened, loosened or moved in any way, it must be recoated with the specified adhesive.
- When reusing a precoated part, clean off the old adhesive and dry the part with compressed air. Then apply new seal lock adhesive appropriate to that part.
- Some seal lock agents harden slowly. You may have to wait for the seal lock adhesive to harden.

(d) GASKETS

- When necessary, use a sealer on gaskets to prevent leaks.

(e) BOLTS, NUTS AND SCREWS

- Carefully follow all the specifications for tightening torques. Always use a torque wrench.

(f) FUSES

- When inspecting a fuse, check that the wire of the fuse is not broken.
- When replacing fuses, be sure that the new fuse has the correct amperage rating. Do not exceed the rating or use one with a lower rating.

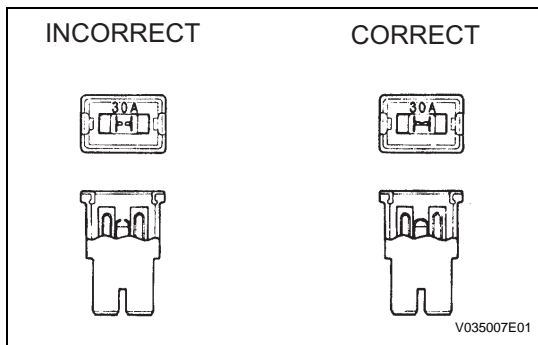
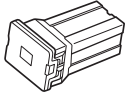

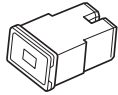

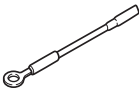

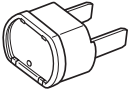



Illustration	Symbol	Part Name	Abbreviation
<p style="text-align: center;">N</p>	<p style="text-align: center;">N</p>	FUSE	FUSE

Illustration	Symbol	Part Name	Abbreviation
 <p>N</p>	 <p>N</p>	MEDIUM CURRENT FUSE	M-FUSE
 <p>N</p>	 <p>N</p>	HIGH CURRENT FUSE	H-FUSE
 <p>N</p>	 <p>N</p>	FUSIBLE LINK	FL
 <p>N</p>	 <p>N</p>	CIRCUIT BREAKER	CB

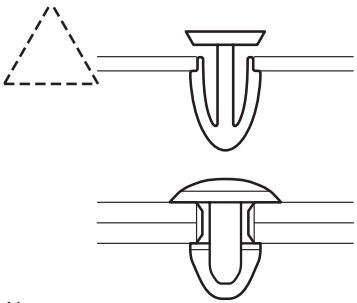
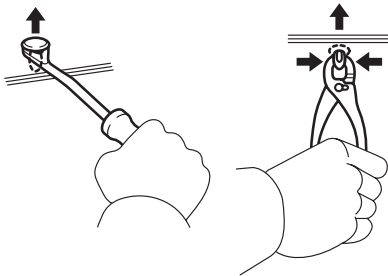
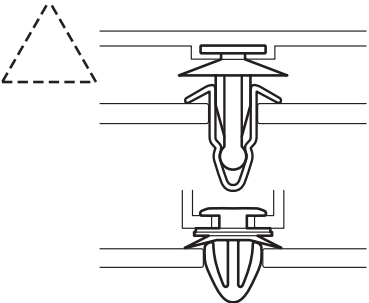
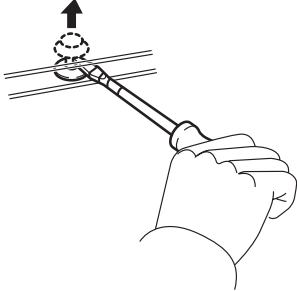
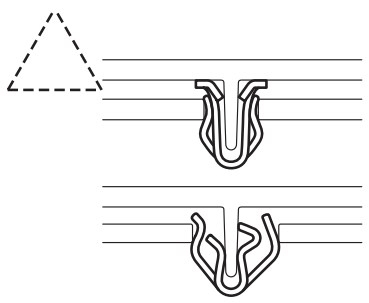
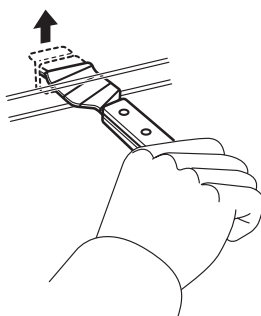
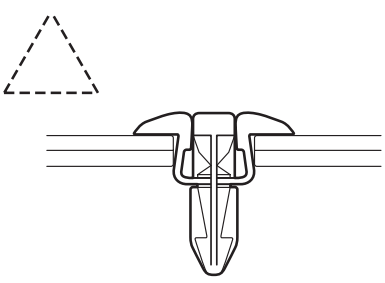
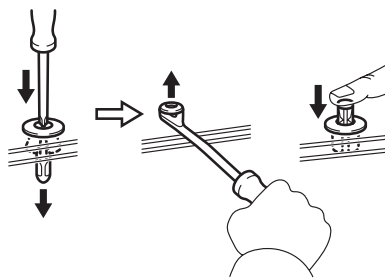
(g) CLIPS

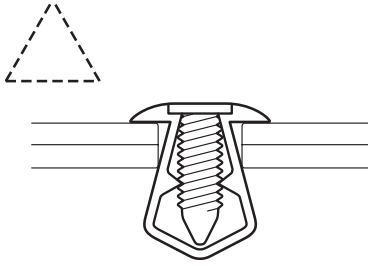
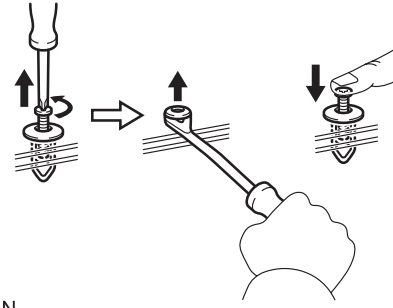
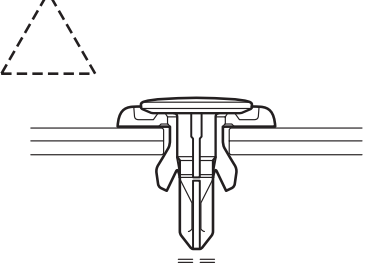
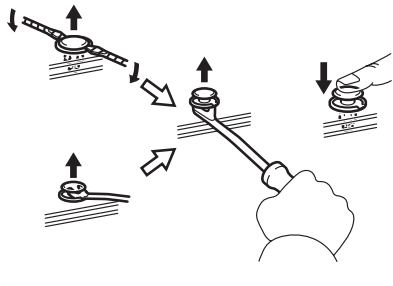
(1) The removal and installation methods of typical clips used for vehicle body parts are shown in the table below.

HINT:

If clips are damaged during work, always replace the damaged clip with a new one.

IN

Shape (Example)	Removal/Installation
 <p>N</p>	<p>Remove clips with clip remover or pliers.</p>  <p>N</p>
 <p>N</p>	<p>Remove fasteners with clip remover or screwdriver.</p>  <p>N</p>
 <p>N</p>	<p>Remove clips with wide scraper to prevent panel damage.</p>  <p>N</p>
 <p>N</p>	<p>Remove clips by pushing center pin through and prying out shell.</p>  <p>N</p>

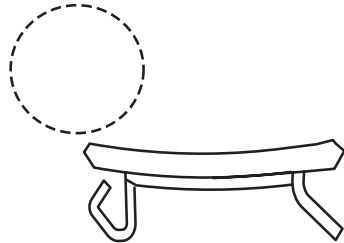
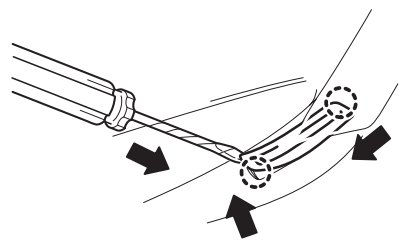
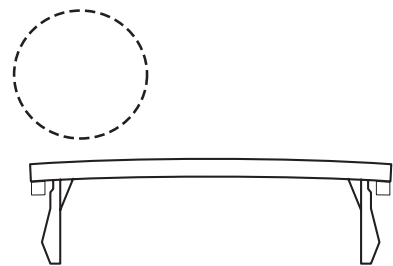
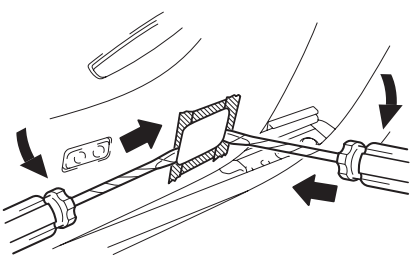
Shape (Example)	Removal/Installation
 <p>N</p>	<p>Remove clips by unscrewing center pin and prying out shell.</p>  <p>N</p>
 <p>N</p>	<p>Remove clips by prying out pin and then prying out shell.</p>  <p>N</p>

(h) CLAWS

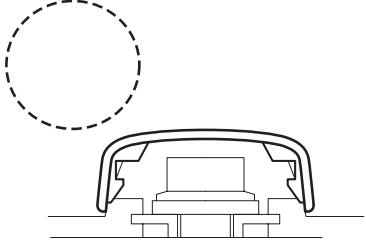
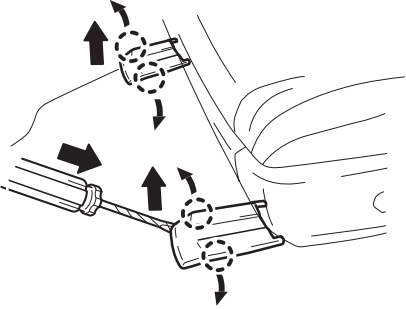
(1) The removal and installation methods of typical claws used for vehicle body parts are shown in the table below.

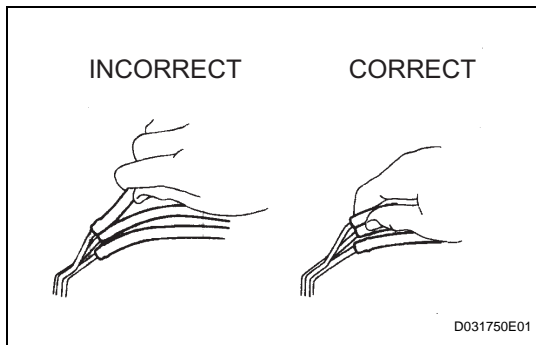
HINT:

If claws are damaged during a procedure, always replace the damaged claws with a new caps or covers.

Shape (Example)	Illustration	Procedures
 <p>N</p>		<ol style="list-style-type: none"> Using a screwdriver, detach the claws and remove the cap or covers.
 <p>N</p>		<ol style="list-style-type: none"> Using a screwdriver, detach the claws and remove the cap or covers.

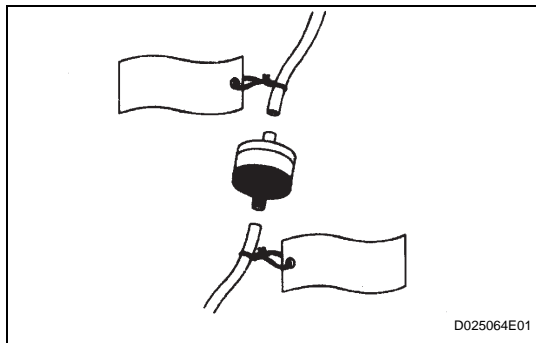
IN

Shape (Example)	Illustration	Procedures
		<p>1. Using a screwdriver, detach the claws and remove the cap or covers.</p>



(i) REMOVAL AND INSTALLATION OF VACUUM HOSES

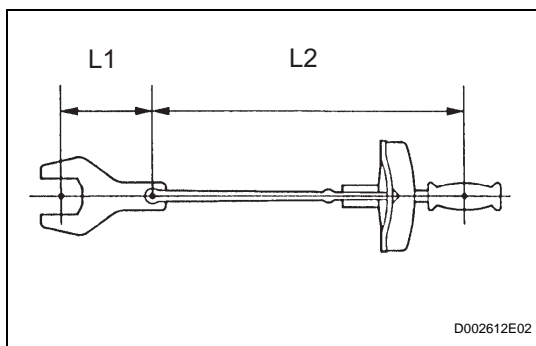
(1) To disconnect a vacuum hose, pull and twist from the end of the hose. Do not pull from the middle of the hose as this may damage the hose.



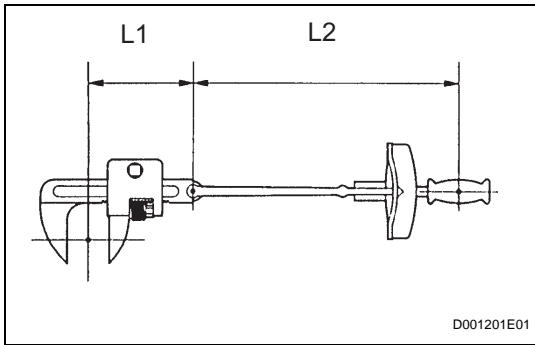
(2) When disconnecting vacuum hoses, use tags to identify where they should be reconnected.

(3) After completing any hose related repairs, double check that the vacuum hoses are properly connected. The label under the hood shows the proper layout.

(4) When using a vacuum gauge, never force the hose onto a connector that is too large. If a hose has been stretched, air may leak. Use a step-down adapter if necessary.



(j) TORQUE WHEN USING TORQUE WRENCH WITH EXTENSION TOOL



- (1) Use the formula below to calculate special torque values for situations where SST or an extension tool is combined with the torque wrench.

Formula:

$$T' = L2 / (L1 + L2) * T$$

T'	Reading of torque wrench {N*m (kgf*cm, ft.*lbf)}
T	Torque {N*m (kgf*cm, ft.*lbf)}
L1	Length of SST or extension tool {cm (in.)}
L2	Length of torque wrench {cm (in.)}

NOTICE:

If an extension tool or SST is combined with a torque wrench and the wrench is used to tighten to a torque specification in this manual, the actual torque will be excessive and parts will be damaged.

2. FOR VEHICLES EQUIPPED WITH SRS AIRBAG AND SEAT BELT PRETENSIONER

The LEXUS RX330 is equipped with a Supplemental Restraint System (SRS).

CAUTION:

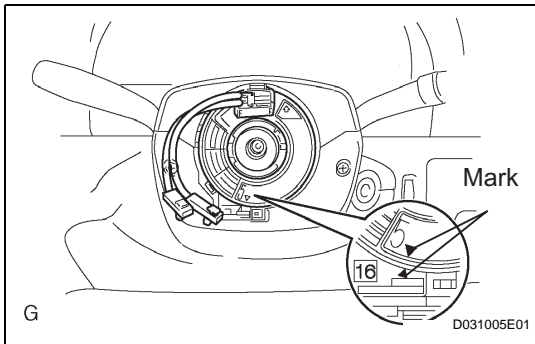
Failure to carry out the service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing and lead to serious injury. Furthermore, if a mistake is made when servicing SRS, it is possible that the SRS may fail to operate properly. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the following section carefully.

(a) GENERAL NOTICE

- (1) As malfunctions of the SRS are difficult to confirm, the Diagnostic Trouble Codes (DTCs) become the most important source of information when troubleshooting. When troubleshooting the SRS, always check the DTCs before disconnecting the battery.

- (2) Work must be started at least 90 seconds after the ignition switch is turned off and after the cable is disconnected from the negative (-) battery terminal.
- The SRS is equipped with a back-up power source. If work is started within 90 seconds after turning the ignition switch off and disconnecting the cable from the negative (-) battery terminal, the SRS may deploy.
- When the cable is disconnected from the negative (-) battery terminal, clock and audio system memory is erased. Before starting work, make a note of the settings of each memory system. When work is finished, reset the clock and audio system as before.
- CAUTION:**
Never use a back-up power source (battery or other) to avoid erasing system memory. The back-up power source may inadvertently power the SRS and cause it to deploy.
- (3) In minor collisions where the SRS does not deploy, the steering pad, front passenger airbag assembly, driver side knee airbag assembly, front seat side airbag assembly, curtain shield airbag assembly and front seat outer belt assembly should be inspected before further use of the vehicle.
- (See page [RS-389](#) for steering pad)
(See page [RS-413](#) for front passenger airbag assembly)
(See page [RS-428](#) for front seat side airbag assembly)
(See page [RS-404](#) for driver side knee airbag assembly)
(See page [RS-422](#) for curtain shield airbag assembly)
(See page [SB-20](#) for front seat outer belt assembly)
- (4) Never use SRS parts from another vehicle. When replacing parts, use new parts.
- (5) Before repairs, remove the airbag sensor assemblies if impacts are likely to be applied to the sensor during repairs.
- (6) Never disassemble and attempt to repair all airbag sensor assemblies and all airbag assemblies.
1. Steering pad
 2. Front passenger airbag assembly
 3. Driver side knee airbag assembly
 4. Front seat side airbag assembly
 5. Curtain shield airbag assembly
 6. Front seat outer belt assembly

- (7) Replace the airbag sensor assemblies and the airbag assemblies if: 1) damage has occurred from being dropped, or 2) cracks, dents or other defects in the case, bracket or connector are present.
- (8) Do not directly expose the airbag sensor assembly or airbag assembly to hot air or flames.
- (9) Use a voltmeter / ohmmeter with high impedance (minimum=10 kΩ) for troubleshooting electrical circuits.
- (10) Information labels are attached to the SRS components. Follow the instructions on the labels.
- (11) After work on the SRS is completed, check the SRS warning light.

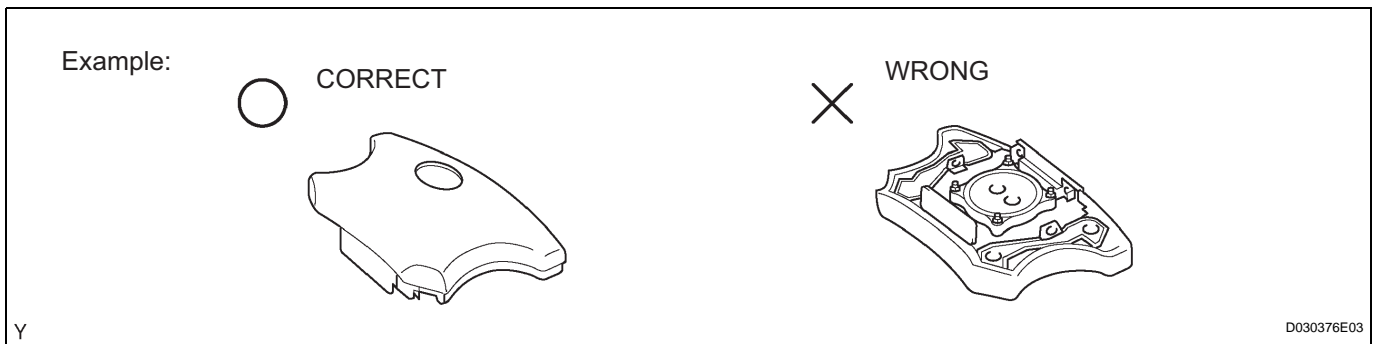


(b) SPIRAL CABLE

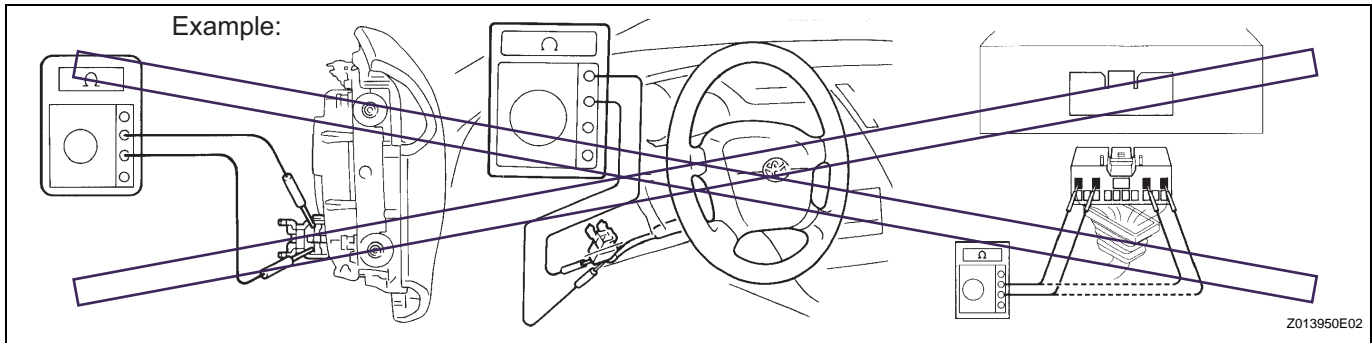
- (1) The steering wheel must be fitted correctly to the steering column with the spiral cable at the neutral position, as cable disconnection and other problems may occur. Refer to the information about correct installation of the steering wheel (See page [RS-399](#)).

(c) STEERING PAD

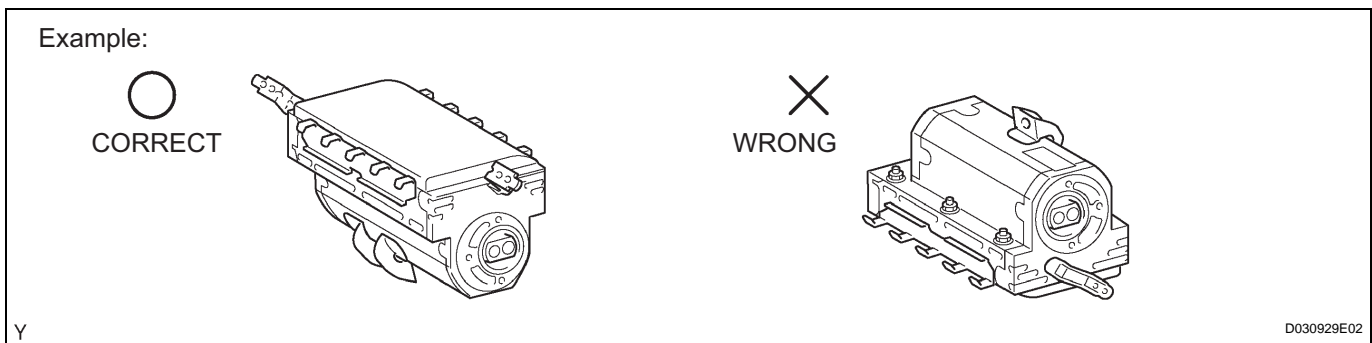
- (1) Always place a removed or new steering pad surface upward as shown in the illustration. Placing the horn button with the pad surface facing down could cause a serious accident if the airbag inflates. Also, do not place anything on top of the horn button.



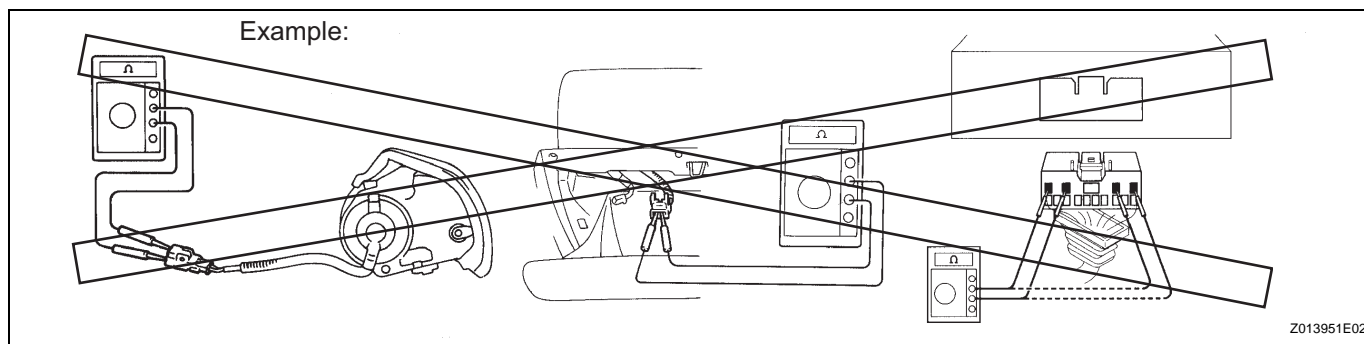
- (2) Never measure the resistance of the airbag squib. This may cause the airbag to inflate, which could cause serious injury.



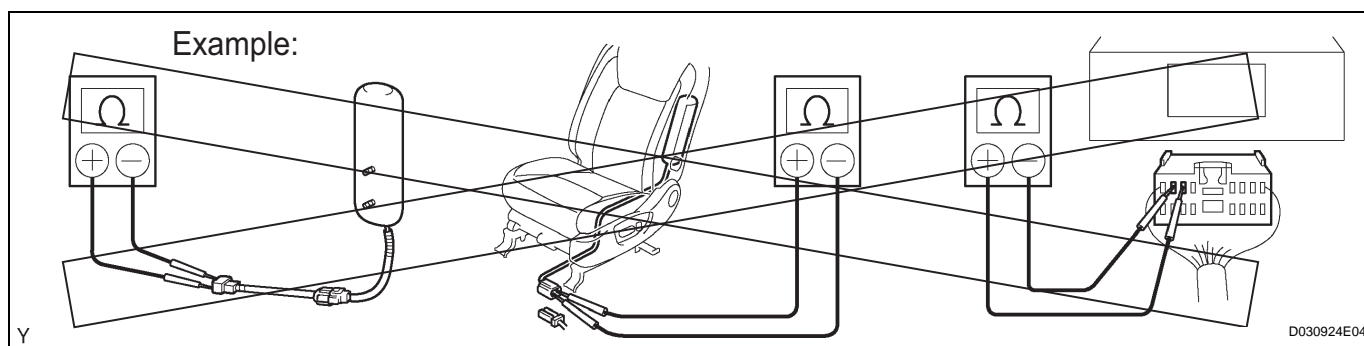
- (3) Grease or detergents of any kind should not be applied to the horn button.
- (4) Store the horn button assembly in an area where the ambient temperature is below 93°C (200°F), the humidity is not high and there is no electrical noise.
- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (4 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of the vehicle or the horn button assembly by itself, the airbag should be deployed using SST before disposal (See page [RS-389](#)). Activate the airbag in a safe place away from electrical noise.
- (d) FRONT PASSENGER AIRBAG ASSEMBLY
- (1) Always place a removed or new front passenger airbag assembly with the pad surface facing upward as shown in the illustration. Placing the airbag assembly with the airbag inflation direction 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 inflate, which could cause serious injury.

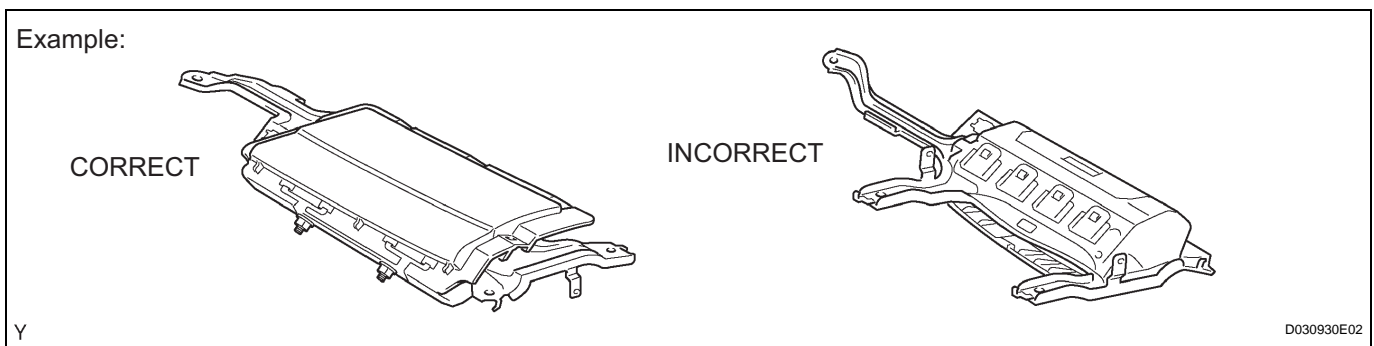


- (3) Grease or detergents of any kind should not be applied to the front passenger airbag assembly.
- (4) Store the airbag assembly in an area where the ambient temperature is below 93°C (200°F), the humidity is not high and there is no electrical noise.
- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (4 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of the vehicle or the airbag assembly unit by itself, the airbag should be deployed using SST before disposal (See page [RS-413](#)). Activate in a safe place, away from electrical noise.
- (e) FRONT SEAT SIDE AIRBAG ASSEMBLY
- (1) Always place a removed or new front seat side airbag assembly with the airbag inflation direction facing up.
- (2) Never measure the resistance of the airbag squib. This may cause the airbag to inflate, which could cause serious injury.

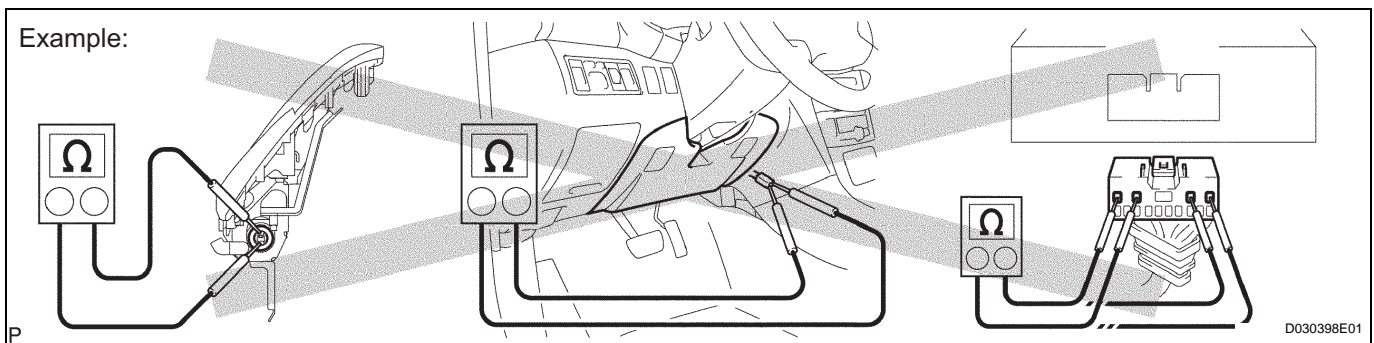


- (3) Grease or detergents of any kind should not be applied to the front seat side airbag assembly.
- (4) Store the airbag assembly in an area where the ambient temperature is below 93°C (200°F), the humidity is not high and there is no electrical noise.

- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (2 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of a vehicle or the airbag assembly unit by itself, the airbag should be deployed using SST before disposal (See page [RS-428](#)). Activate in a safe place away from electrical noise.
- (f) **DRIVER SIDE KNEE AIRBAG ASSEMBLY AND FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY**
- (1) Always place a removed or new knee airbag assembly with the airbag inflation direction facing upward. Placing the airbag assembly with the airbag inflation direction facing downward could cause a serious accident if the airbag inflates.

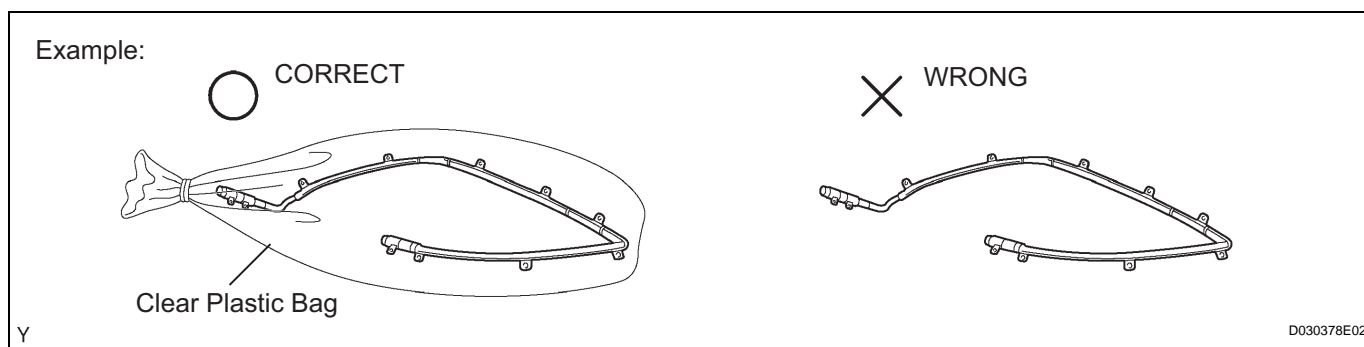


- (2) Never measure the resistance of the airbag squib. This may cause the airbag to inflate, which could cause serious injury.



- (3) Grease or detergents of any kind should not be applied to the knee airbag assembly.
- (4) Store the knee airbag assembly where the ambient temperature is below 93°C (200°F), the humidity is not high and there is no electrical noise.

- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (2 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of a vehicle or knee airbag assembly unit by itself, the airbag should be inflated using SST before disposal (See page [RS-404](#)). Activate in a safe place, away from electrical noise.
- (g) CURTAIN SHIELD AIRBAG ASSEMBLY
- (1) Always place a removed or new curtain shield airbag assembly in a clear plastic bag, and keep it in a safe place.

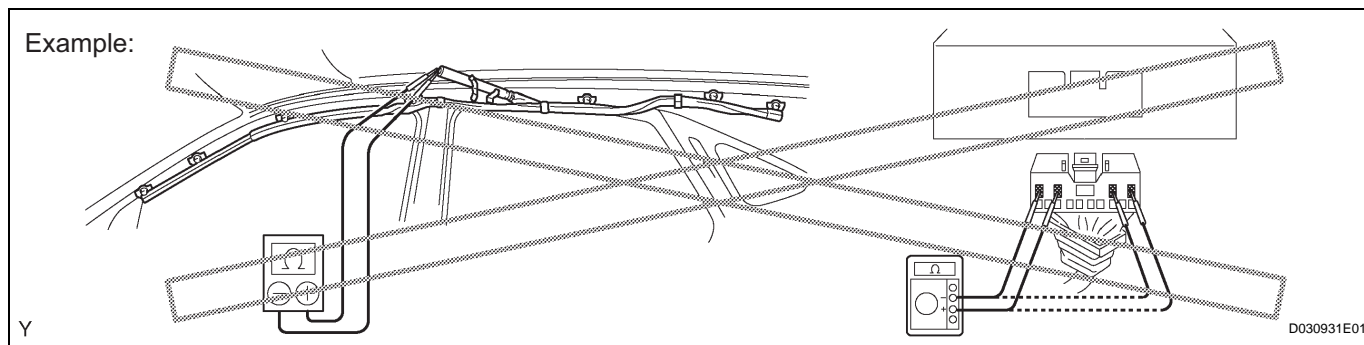
**CAUTION:**

The plastic bag is not reusable.

NOTICE:

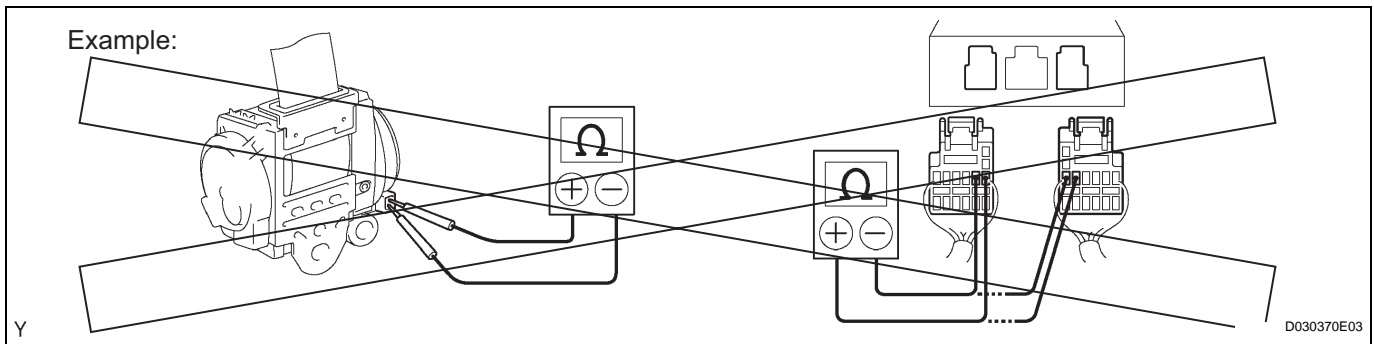
Never disassemble the curtain shield airbag assembly.

- (2) Never measure the resistance of the airbag squib. This may cause the airbag to inflate, which could cause serious injury.



- (3) Grease or detergents of any kind should not be applied to the curtain shield airbag assembly.
- (4) Store the airbag assembly in an area where the ambient temperature is below 93°C (200°F), the humidity is not high and there is no electrical noise.

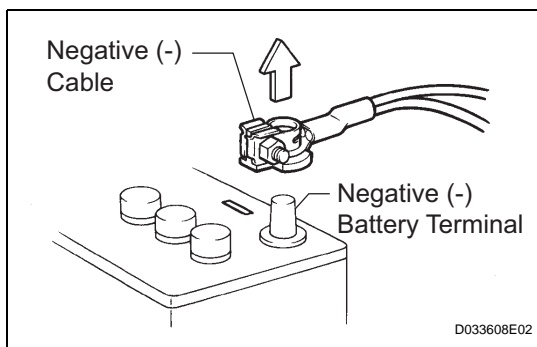
- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (4 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of a vehicle or the airbag assembly unit by itself, the airbag should be deployed using SST before disposal (See page [RS-422](#)). Activate in a safe place away from electrical noise.
- (h) FRONT SEAT OUTER BELT ASSEMBLY AND REAR SEAT OUTER BELT ASSEMBLY (SEAT BELT PRETENSIONER)
 - (1) Never measure the resistance of the seat outer belt. This may cause the pretensioner of the seat belt to activate, which could cause serious injury.



- (2) Never disassemble the seat outer belt.
- (3) Never install the seat outer belt on another vehicle.
- (4) Store the seat outer belt in an area where the ambient temperature is below 80°C (176°F), the humidity is not high and there is no electrical noise.
- (5) When using electric welding anywhere on the vehicle, disconnect the airbag ECU connectors (2 pins). These connectors contain shorting springs. This feature reduces the possibility of the airbag deploying due to current entering the squib wiring.
- (6) When disposing of a vehicle or the seat outer belt unit by itself, the seat outer belt should be activated before disposal (See page [SB-20](#)). Activate in a safe place away from electrical noise.
- (7) As the seat outer belt is hot after being activated, allow some time for it to cool down sufficiently before disposal. Never apply water to cool down the seat outer belt.
- (8) Grease, detergents, oil or water should not be applied to the front seat outer belt.

- (i) AIRBAG SENSOR ASSEMBLY
 - (1) Never reuse an airbag sensor assembly that has been involved in a collision where the SRS has deployed.
 - (2) The connectors to the airbag sensor assembly should be connected or disconnected with the sensor placed on the floor. If the connectors are connected or disconnected while the airbag sensor assembly is not placed on the floor, the SRS may activate.
 - (3) Work must be started at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal, even if only loosening the set bolts of the airbag sensor assembly.
- (j) WIRE HARNESS AND CONNECTOR
 - (1) 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, repair or replace it.

IN



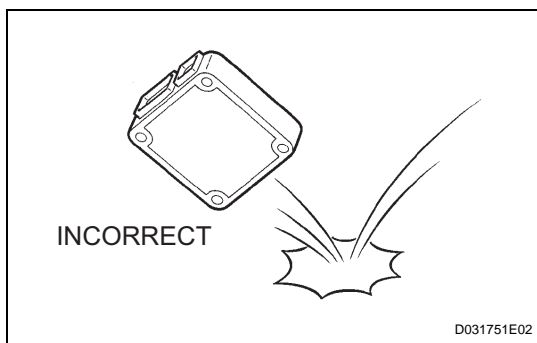
3. ELECTRONIC CONTROL

- (a) REMOVAL AND INSTALLATION OF BATTERY TERMINAL

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

- (1) Before performing electronic work, disconnect the cable from the negative (-) battery terminal to prevent component and wire damage caused by accidental short circuits.
 - (2) When disconnecting the cable, turn the ignition switch and headlight dimmer switch off and loosen the cable nut completely. Perform these operations without twisting or prying the cable. Then disconnect the cable.
 - (3) Clock settings, radio settings, audio system memory, DTCs and other data are erased when the cable is disconnected from the negative (-) battery terminal. Write down any necessary data before disconnecting the cable.
- (b) HANDLING OF ELECTRONIC PARTS
 - (1) Do not open the cover or case of the ECU unless absolutely necessary. If the IC terminals are touched, the IC may be rendered inoperative by static electricity.
 - (2) Do not pull the wires when disconnecting electronic connectors. Pull the connector itself.
 - (3) Do not drop electronic components, such as sensors or relays. If they are dropped on a hard surface, they should be replaced.



- (4) When cleaning the engine with steam, protect the electronic components, air filter and emission-related components from water.
- (5) Never use an impact wrench to remove or install temperature switches or temperature sensors.
- (6) When measuring the resistance between terminals of a wire connector, insert the tester probe carefully to prevent terminals from bending.

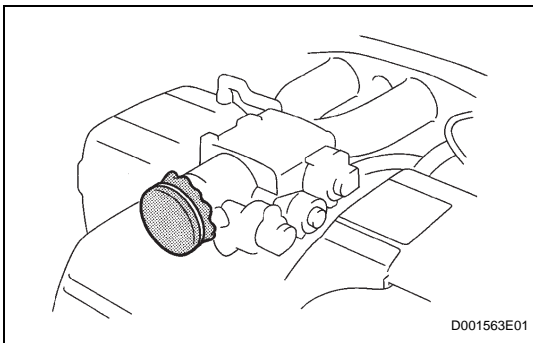
4. REMOVAL AND INSTALLATION OF FUEL CONTROL PARTS

(a) PLACE FOR REMOVING AND INSTALLING FUEL SYSTEM PARTS

- (1) Work in a location with good air ventilation that does not have welders, grinders, drills, electric motors, stoves, or any other ignition sources.
- (2) Never work in a pit or near a pit as vaporized fuel will collect in those places.

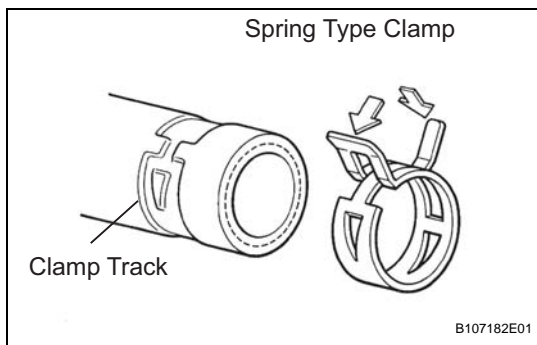
(b) REMOVING AND INSTALLING FUEL SYSTEM PARTS

- (1) Prepare a fire extinguisher before starting the operation.
- (2) To prevent static electricity, install a ground wire to the fuel changer, vehicle and fuel tank, do not spray the surrounding area with water. Be careful when performing work in this area, as the work surface will become slippery. Do not clean up gasoline spills with water, as this may cause the gasoline to spread, and possibly create a fire hazard.
- (3) Avoid using electric motors, working lights and other electric equipments that can cause sparks or high temperatures.
- (4) Avoid using iron hammers as they may create sparks.
- (5) Dispose of fuel-contaminated cloth separately using a fire resistant container.



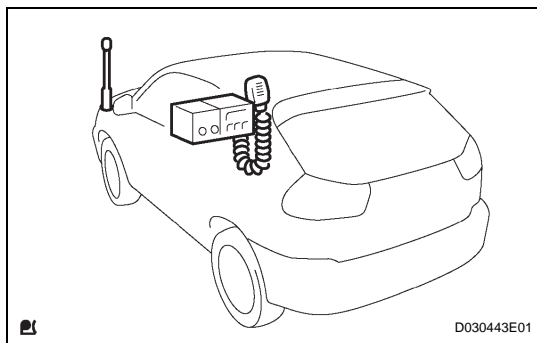
5. REMOVAL AND INSTALLATION OF ENGINE INTAKE PARTS

- (a) If any metal particles enter inlet system parts, this may damage the engine.
- (b) When removing and installing inlet system parts, cover the openings of the removed parts and engine openings. Use gummed tape or other suitable materials.
- (c) When installing inlet system parts, check that no metal particles have entered the engine or the installed parts.



6. HANDLING OF HOSE CLAMPS

- Before removing the hose, check the clamp position so that it can be reinstalled in the same position.
- Replace any deformed or dented clamps with new ones.
- When reusing a hose, attach the clamp on the clamp track portion of the hose.
- For a spring type clamp, you may want to spread the tabs slightly after installation by pushing in the direction of the arrows as shown in the illustration.

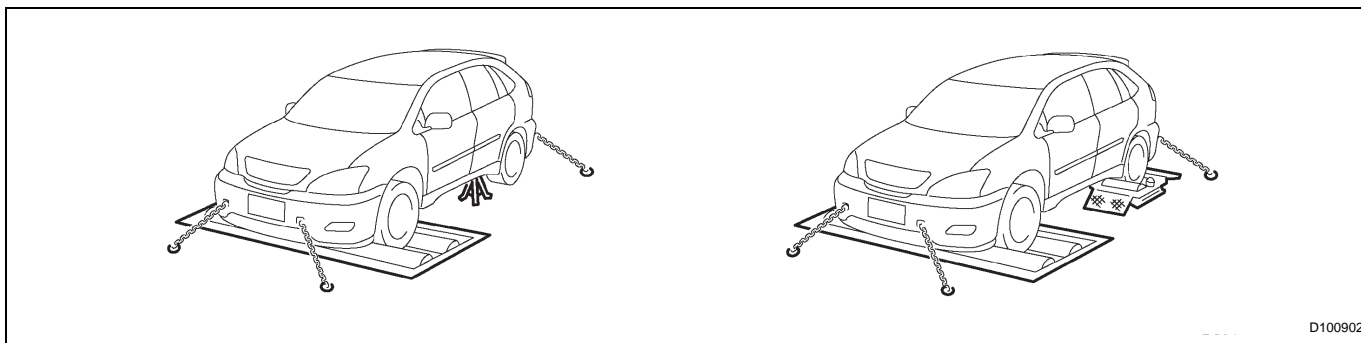


7. FOR VEHICLES EQUIPPED WITH MOBILE COMMUNICATION SYSTEMS

- Install the antenna far away from the ECU and sensors of the vehicle electronic systems as possible.
- Install an antenna feeder at least 20 cm (7.87 in.) away from the ECU and sensors of the vehicle electronic systems. For details about ECU and sensors locations, refer to the section on the applicable components.
- Keep the antenna and feeder separate from other wirings as much as possible. This will prevent signals sent from the communication equipment from affecting vehicle equipment and vice-versa.
- Check that the antenna and feeder are correctly adjusted.
- Do not install any high-powered mobile communication system.

8. WHEN SERVICING FULL-TIME 4WD VEHICLES

The full-time 4WD LEXUS RX330 is equipped with the open center differential system.



If incorrect preparations or test procedures are used, the test will not only be unsuccessful, but may be dangerous as well.

Therefore, before beginning any such servicing or test, be sure to check the following items:

- Whether wheels should be touching ground or jacked up
- Transaxle gear position
- Maximum testing vehicle speed
- Maximum testing time

CAUTION:

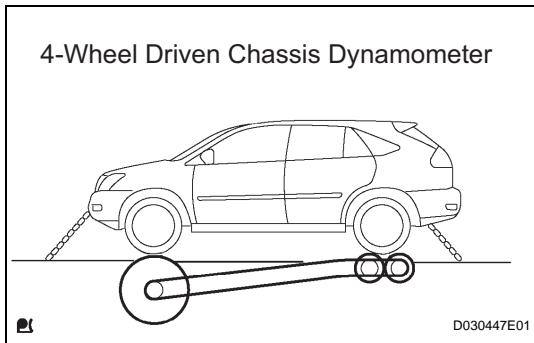
- **Never accelerate or decelerate the vehicle suddenly**
 - **Observe the other cautions given for each individual test**
- (a) **Before Beginning Test**
This vehicle does not have a Center Diff. Lock Mode or 4WD (Normal) Mode to allow only the front or rear wheel to be rotated.
The test method for this vehicle is different from that for vehicles equipped with the Center Diff. Lock Mode or 4WD (Normal) Mode, so make sure to use the correct test method.
- (b) **Braking Force Test**
(Vehicle Speed: Below 0.5 km/h or 0.3 mph)
When performing low-speed type brake tester measurements, observe the following instructions.
- (1) Position the wheels to be tested (front or rear) on the tester.
 - (2) Shift the transaxle shift lever to "N" position.
 - (3) Idle the engine, operate the brake booster and perform the test.
- (c) **Speedometer Test or Other Tests**

NOTICE:

If you do not observe the following conditions for the test, there will be the cases where the 4WD functions will deteriorate; the parts in the drive-train system will have a malfunction; the vehicle will jump out. Therefore, do not conduct a test unless observing the following conditions.

HINT:

When conducting a test with the vehicle highly loaded are driven with high speeds, observe the following conditions.

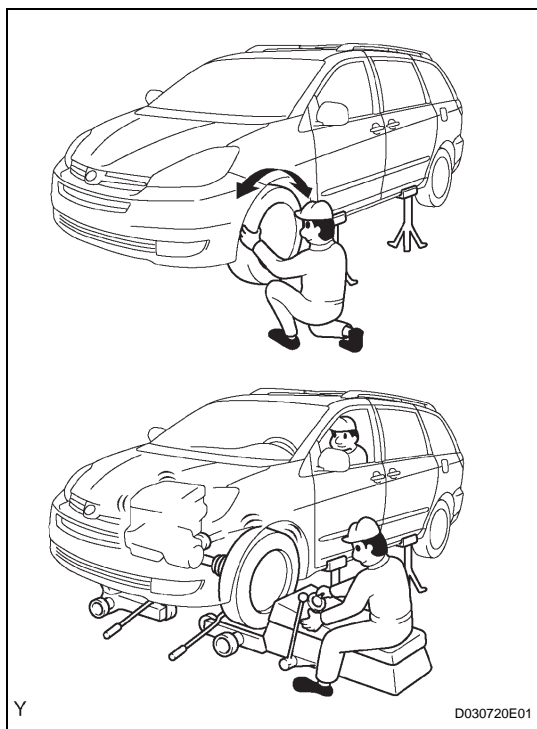


No.	Chassis Dynamometer Type	Vehicle Speed and Test Time	Propeller shaft
1	4-Wheel Driven Chassis Dynamometer	No restriction	Normal (Do not remove)

*: This is to avoid damaging the center differential.

NOTICE:

- **Do not suddenly accelerate and do not suddenly apply brake.**
- **Confirm that the vehicle is securely immobilized.**
- **Never operate the brakes to drive the wheels or stop them suddenly.**



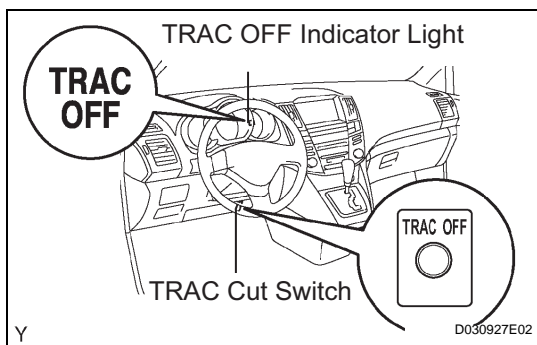
- (d) On-Vehicle Wheel Balancing
When doing on-vehicle wheel balancing on a full-time 4WD vehicle, to prevent the wheels from rotating at different speeds in different directions from each other (which could damage the center differential), always be sure to observe the following precautions:

- (1) All 4 wheels should be jacked up, clearing the ground completely.
- (2) The parking brake lever should be fully released.
- (3) None of the brakes should be allowed to drag.
- (4) The wheels should be driven on the wheel balancer with the engine running.00

HINT:

When doing this, be careful of the other wheels, which will rotate at the same time.

- (5) Avoid sudden acceleration, deceleration and braking.
- (6) Carry out wheel balancing with the transaxle in D position.



9. FOR VEHICLES EQUIPPED WITH TRACTION CONTROL (TRAC) SYSTEM

When using a 2-wheel drum tester such as a speedometer tester or chassis dynamometer, etc., or jacking up the front wheels and driving the wheels, always push in the TRAC cut ("TRAC OFF") switch and turn the TRAC system OFF.

- (a) Confirm TRAC system is OFF
 - (1) Press the TRAC cut ("TRAC OFF") switch.
 - (2) Check that the TRAC OFF indicator light comes on when the TRAC system is turned OFF by the TRAC cut switch.

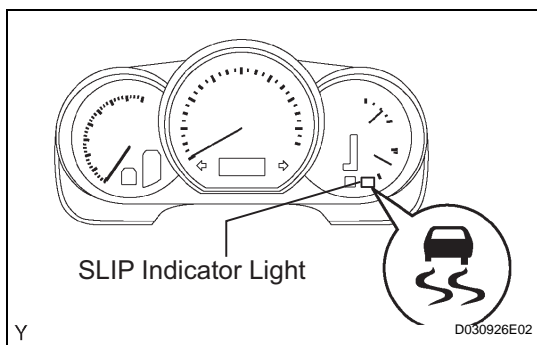
HINT:

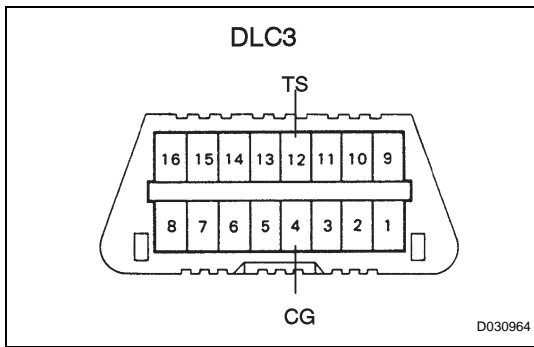
The SLIP indicator light should always operate right after the engine is restarted.

- (3) Begin measurements.
- (4) Press the TRAC cut switch to turn the TRAC to the operative mode and check that the TRAC OFF indicator light goes off.

HINT:

The SLIP indicator light blinks when the TRAC system is operating.





10. FOR VEHICLES EQUIPPED WITH VEHICLE STABILITY CONTROL (VSC) SYSTEM

(a) Notices when using dram tester

(1) When using a drum tester, be sure to start the engine with the ignition switch OFF, and connect SST to the terminals TS and CG of the DLC3 before the measurement in order to cancel the VSC operation.

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NOTICE:

- **Confirm that the VSC warning light blinks.**
- **The VSC system is reset when the engine is restarted.**
- **Fasten the vehicle with lock chains.**

(b) Notice of related operations to VSC

(1) Do not carry out unnecessary installation and removal as it might disorder the adjustment of the parts related to the VSC.

(2) Be sure to carry out the preparation for operation and the confirmation of operation completion in accordance with the instructions of the text and when the operations related to the VSC are performed.

11. WHEN TOWING FULL-TIME 4WD VEHICLES

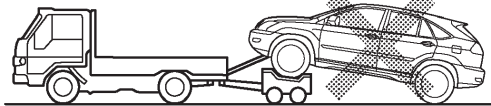
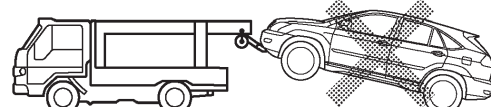
- Use one of methods shown below to tow the vehicle.
- If the vehicle has trouble with the chassis or drive train, use method 1 (flat bed truck).

Towing Method	Conditions	Parking Brake	Transaxle Shift Lever Position
<p>1. Flat Bed Truck</p>		Applied	Any Position
<p>2. Wheel Lift Type Truck</p> <p>From Front</p> <p>From Rear</p>		Applied	Any Position
<p>3. Towing with Rope</p>		Released	Neutral Position

NOTICE:

Do not use any towing method other than those shown above.

The towing methods shown below are dangerous and can damage the vehicle, so do not use them.

<p style="text-align: center;">NO</p> 	<ul style="list-style-type: none"> • Never tow the vehicle using a method in which the wheels that are lifted up cannot rotate. • Do not use the sling type towing method either from the front or rear. • If this towing method is used, either from the front or rear: <ul style="list-style-type: none"> (a) The drive train may heat up and be damaged and the wheels may fly off the dolly. (b) In addition, if the vehicle is equipped with the VSC & TRAC system, the system will apply an internal brake to the rotating wheels when the engine is not shut off.
<p style="text-align: center;">NO</p> 	

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12. FOR VEHICLES EQUIPPED WITH CATALYTIC CONVERTER

CAUTION:

If a large amount of unburned gasoline flows into the converter, it may cause overheating and is a fire hazard. To prevent this, observe the following precautions.

- (a) Use only unleaded gasoline.
- (b) Avoid prolonged idling.
Avoid idling the engine for more than 20 minutes.
- (c) Avoid a spark jump test.
 - (1) Perform a spark jump test only when absolutely necessary. Perform this test as rapidly as possible.
 - (2) While testing, never race the engine.
- (d) Avoid a prolonged engine compression measurement.
Engine compression measurements must be performed as rapidly as possible.
- (e) Do not run the engine when the fuel tank is nearly empty. This may cause the engine to misfire and create an extra load on the converter.

13. FOR VEHICLES EQUIPPED WITH AIR SUSPENSION SYSTEM (See page [SC-1](#))