FOREWORD

This supplement has been prepared to provide information covering general service repairs for COROLLA which underwent changes in January, 2003.

Applicable models: ZZE120, 121, 123 series
CDE120 series

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For the service specifications and repair procedures of the above model other than those listed in the supplement, refer to the following manuals.

Manual Name	Pub. No.
S COROLLA Repair Manual	RM925E
S COROLLA Repair Manual Supplement	RM939E
S 3ZZ-FE, 4ZZ-FE Engine Repair Manual	RM928E
S 2ZZ-GE Engine Repair Manual	RM929E
S 1CD-FTV Engine Repair Manual	RM927E
S C51, C52 Manual Transaxle Repair Manual	RM826E
S C150 Manual Transaxle Repair Manual	RM827E
S C64 Manual Transaxle Repair Manual	RM830E
S E355, E356 Manual Transaxle Repair Manual	RM867E
S A245E, A246E Automatic Transaxle Repair Manual	RM847E
S COROLLA Electrical Wiring Diagram	EWD480E
S COROLLA Electrical Wiring Diagram Supplement	EWD485E
S COROLLA New Car Features	NCF218E
S COROLLA New Car Features Supplement	NCF245E

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

CAUTION

This manual does not include all the necessary items about repair and service. This manual is made for the purpose of the use for the persons who have special techniques and certifications. In the cases that non-specialized or uncertified technicians perform repair or service only using this manual or without proper equipment or tool, that may cause severe injury to you or other people around and also cause damage to your customer's vehicle.

In order to prevent dangerous operation and damages to your customer's vehicle, be sure to follow the instruction shown below.

- Must read this manual thoroughly. It is especially important to have a good understanding of all the contents written in the PRECAUTION of "INTRODUCTION" section.
- The service method written in this manual is very effective to perform repair and service. When performing the operations following the procedures using this manual, be sure to use tools specified and recommended. If using non-specified or recommended tools and service method, be sure to confirm safety of the technicians and any possibility of causing personal injury or damage to the customer's vehicle before starting the operation.
- If part replacement is necessary, must replace the part with the same part number or equivalent part. Do not replace it with inferior quality.
- It is important to note that this manual contains various "Cautions" and "Notices" that must be carefully observed in order to reduce the risk of personal injury during service or repair, or the possibility that improper service or repair may damage the vehicle or render it unsafe. It is also important to understand that these "Cautions" and "Notices" are not exhaustive, because it is important to warn of all the possible hazardous consequences that might result from failure to follow these instructions.

COROLLA ENGINE SUPP. ZZE120, 121, 123 CDE120

INTRODUCTION 1
PREPARATION 2
SERVICE SPECIFICATIONS 3
DIAGNOSTICS 5
SUPPLEMENTAL RESTRAINT SYSTEM 60
SEAT BELT 61
WINDSHIELD/WINDOWGLASS/MIRROR 70
SEAT 72
EXTERIOR/INTERIOR TRIM 76
ALPHABETICAL INDEX

Previous Page
Next Page

INTRODUCTION

HOW TO USE THIS MANUAL 01–1
GENERAL INFORMATION 01–1
IDENTIFICATION INFORMATION 01–4
VEHICLE IDENTIFICATION AND SERIAL NUMBERS 01–4
REPAIR INSTRUCTION 01–5
PRECAUTION 01–5
VEHICLE LIFT AND SUPPORT LOCATIONS 01–17
HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS 01–19
GENERAL INFORMATION 01–19
HOW TO PROCEED WITH TROUBLESHOOTING 01–20
ELECTRONIC CIRCUIT INSPECTION PROCEDURE 01–30
TERMS 01–35
ABBREVIATIONS USED IN THIS MANUAL 01–35
GLOSSARY OF SAE AND TOYOTA TERMS . . 01–40

HOW TO USE THIS MANUAL

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GENERAL INFORMATION

1. GENERAL DESCRIPTION

(a) This manual is made in accordance with SAE J2008.

(b) Generally, repair operations can be separated in the following 3 main processes:
1. Diagnosis
2. Removing/Installing, Replacing, Disassembling/Reassembling, Checking and Adjusting
3. Final Inspection

(c) This manual explains the 1st process of "Diagnosis" (found in the "Diagnostics" section), the 2nd process of "Removing and Installing, Replacing, Disassembling, Installing and Checking, Adjusting", but the 3rd process of "Final Inspection" is omitted.

(d) The following essential operations are not written in this manual. However, these operations must be performed in actual situations.
(1) Operations with a jack or lift
(2) Cleaning of a removed part when necessary
(3) Visual check

2. INDEX

(a) An alphabetical INDEX section is provided at the end of the book to guide you to the item to be repaired.

3. PREPARATION

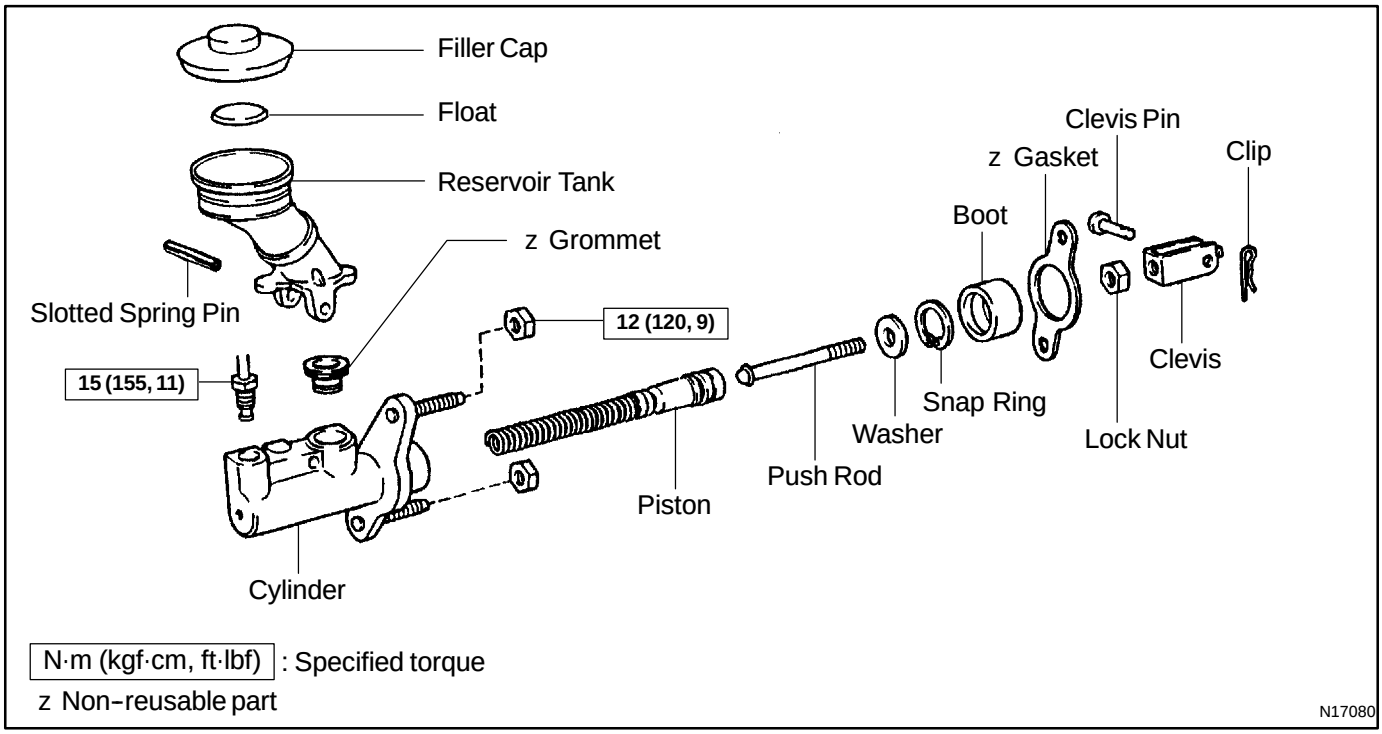
(a) Use of special service tools (SST) and special service materials (SSM) may be required, depending on the repair situation. Be sure to use SST and SSM when they are required and follow the working procedure properly. A list of SST and SSM is in the Preparation section of this manual.

4. REPAIR PROCEDURES

(a) Component drawing is placed under the title where necessary.

(b) Non–reusable parts, grease application area, precoated parts and tightening torque are specified in the components drawing.

Example:



(c) Tightening torque, grease application area, and non–reusable parts are described as important points in the procedures.

NOTICE:

There are cases where such information can only be indicated by an illustration. In those cases, all the information such as torque, oil, etc. are described in the illustration.

(d) Installing procedures are performed in the reverse order of the removal, and only the important points are described.

(e) Only items with points are described in the procedure, and the operational portion and content are placed using an illustration. In the explanations, details of the operational method, standard value and notice are placed.

(f) There may be a case where the illustrations of similar models are used. In that case, specific details may be different from the actual vehicle.

(g) The procedures are presented in a step–by–step format:

(1) The illustration shows what to do and where to do it.

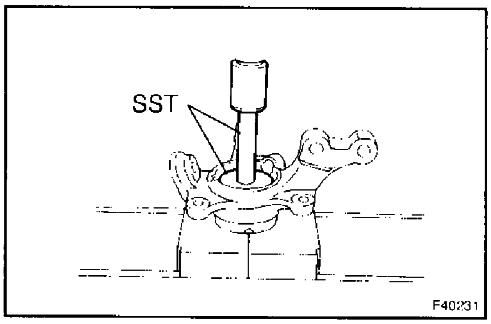
(2) The task heading tells what to do.

(3) The explanation text tells how to perform the task and gives other information such as specifications and warnings.

Example:

Illustration:

what to do and where



Task heading: what to do

14. INSTALL FRONT AXLE HUB LH BEARING

(a) Using SST and a press, install a new bearing to the steering knuckle. ← *Explanation test: how to perform task*

SST 09950–60020 (09951–00720), 09950–70010 (09951–07100)

Set part No.

Component part No.

D26745

HINT:

This format provides an experienced technician with a FAST TRACK to the necessary information. The task heading can be read at a glance when necessary, and the text below provides detailed information. Important specifications and warnings always stand out in bold type.

5. SERVICE SPECIFICATIONS

(a) Specifications are presented in bold type throughout the manual. You never have to leave the procedure to look up your specifications. The specifications are also found in the Service Specifications section for a quick reference.

6. TERMS DEFINITION

CAUTION	Indicates the possibility of injury to you or other people.
NOTICE	Indicates the possibility of damage to the components being repaired.
HINT	Provides additional information to help you to perform the repair efficiently.

7. SI UNIT

(a) The units given in this manual are primarily expressed according to the SI UNIT (International System of Units), and alternately expressed in the metric system and in the English System.

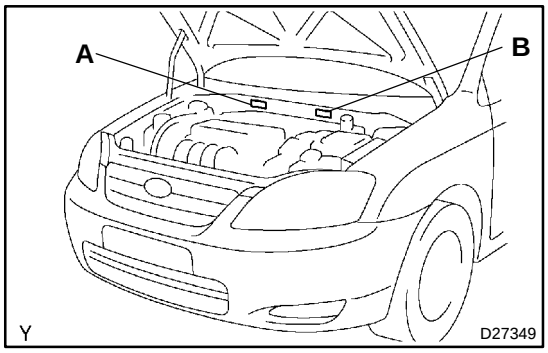
Example:

Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)

IDENTIFICATION INFORMATION

VEHICLE IDENTIFICATION AND SERIAL NUMBERS

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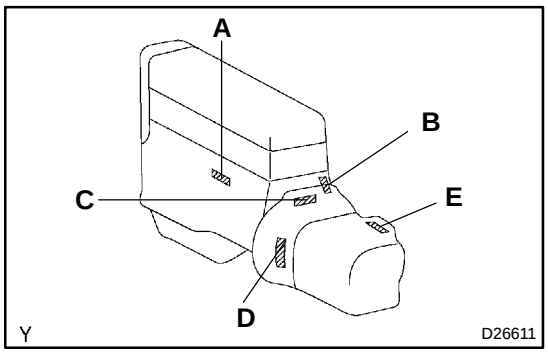


1. VEHICLE IDENTIFICATION NUMBER

(a) The vehicle identification number is stamped on the vehicle identification number plate and manufacturer's plate, as shown in the illustration.

A: Vehicle Identification Number Plate

B: Manufacturer's Plate



2. ENGINE SERIAL NUMBER AND TRANSAXLE SERIAL NUMBER

(a) The engine serial number is stamped on the cylinder block of the engine, and the transaxle serial number is stamped on the housing, as shown in the illustration.

A: 1CD-FTV

B: 2ZZ-GE, 3ZZ-FE, 4ZZ-FE

C: C50, C64, C150

D: E351, E357

E: A246E

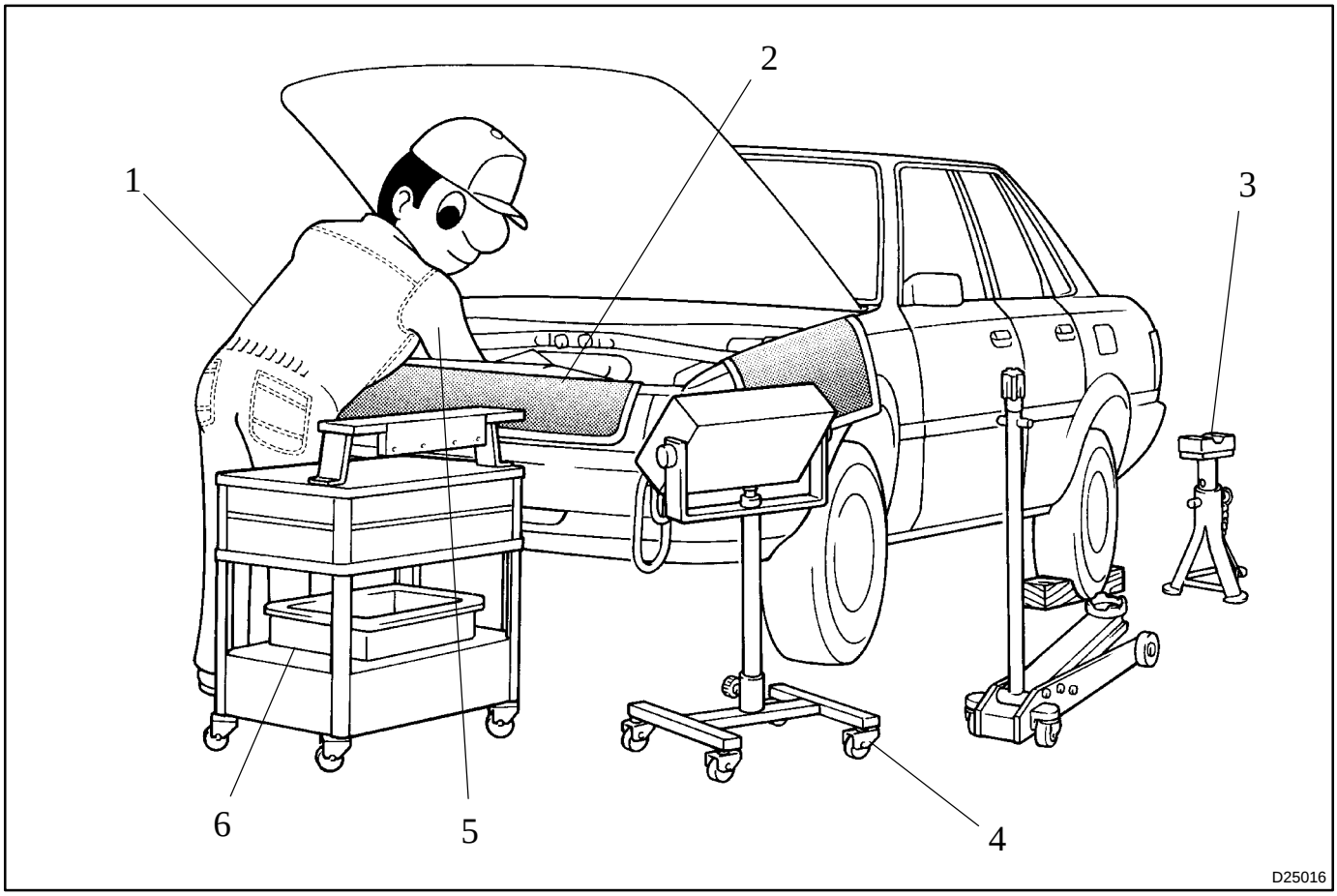
REPAIR INSTRUCTION

PRECAUTION

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1. BASIC REPAIR HINT

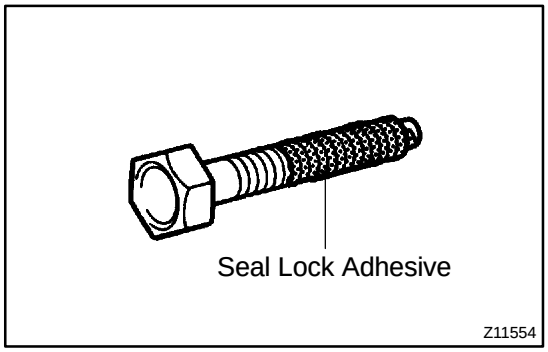
(a) HINTS ON OPERATIONS



1	Looks	S Always wear a clean uniform. S Hat and safety shoes must be worn.
2	Vehicle protection	S Set a grill cover, fender cover, seat cover and floor mat before starting operation.
3	Safe operation	S When working with 2 or more persons, be sure to check the safety of one another. S When working with the engine running, pay attention to the ventilation in the workshop. S When working on high–temperature, rotating, moving and vibrating parts, be careful not to burn or injure yourself. S When jacking up the vehicle, be sure to support the specified location with a safety stand. S When lifting up the vehicle, use safety equipment.
4	Preparation of tools and measuring gauge	S Before starting repairs, prepare the tool stand, SST, gauge, oil, shop rag and parts for replacement.
5	Removal and installation, disassembly and assembly operations	S Diagnose with a thorough understanding of the trouble condition and perform effective operation. S Before removing the parts, check the general condition of the assembly, and for deformation and damage. S When the structure is complicated, take a note or make matchmarks as not to make mistakes that affect the function of the parts. S Clean and wash the removed parts if necessary, and assemble them after a thorough check.
6	Removed parts	S Place the removed parts in the correct order to avoid mixing them up or making them dirty. S As for non–reusable parts such as gaskets, O–rings, and self–locking nuts, replace them with new ones following the instructions in this manual. S Organize the parts that were replaced in a box and show them to the customer.

(b) JACKING UP AND SUPPORTING VEHICLE

(1) Care must be taken when jacking up and supporting the vehicle. Be sure to lift and support the vehicle at the proper locations (See page 01–17).



(c) PRECOATED PARTS

(1) Precoated parts such as bolts, nuts, etc., are coated with a seal lock adhesive at the factory.

(2) If a precoated part is retightened, loosened or caused to move in any way, it must be recoated with the specified adhesive.

(3) When reusing precoated parts, clean off the old adhesive and dry the part with compressed air. Then apply the specified seal lock adhesive to the bolt, nut or threads.

NOTICE:

Check the torque with the lower limit value of the torque tolerance.

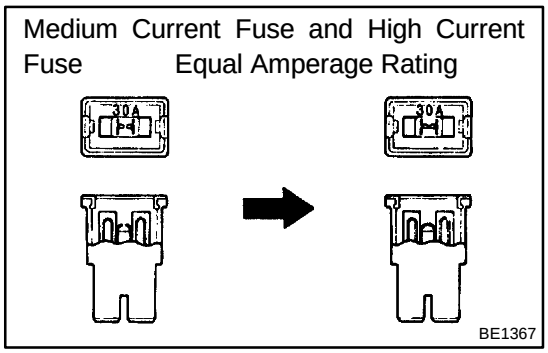
(4) Depending on the seal lock agent to be applied, there may be cases where it is necessary to leave it for a specified time until it hardens.

(d) GASKETS

(1) When necessary, use a sealer on gaskets to prevent leaks.

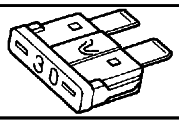
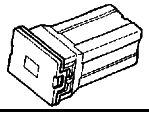
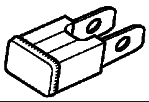
(e) BOLTS, NUTS AND SCREWS

(1) Carefully observe all the specifications for tightening torques. Always use a torque wrench.



(f) FUSES

(1) When replacing fuses, be sure that a new fuse has the correct amperage rating. DO NOT exceed the rating, or use one with a lower rating.

Illustration	Symbol	Part Name	Abbreviation
 BE5594	 IN0365	FUSE	FUSE
 BE5595	 IN0366	MEDIUM CURRENT FUSE	M-FUSE
 D27353	 IN0367	HIGH CURRENT FUSE	H-FUSE

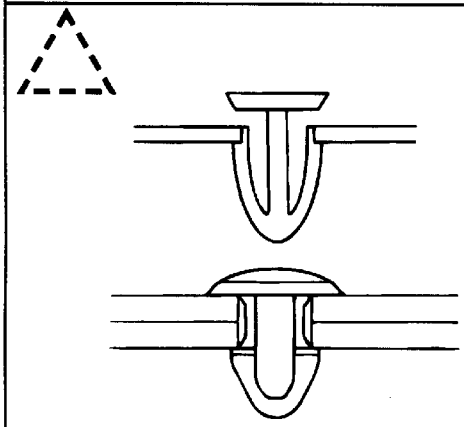
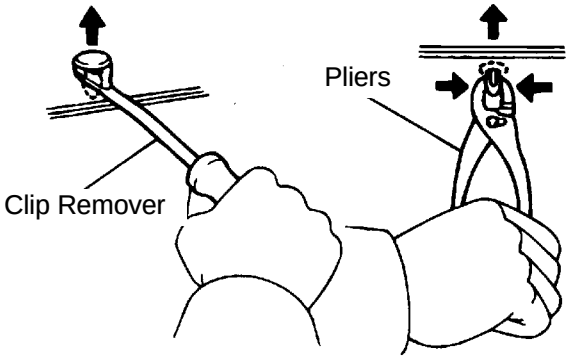
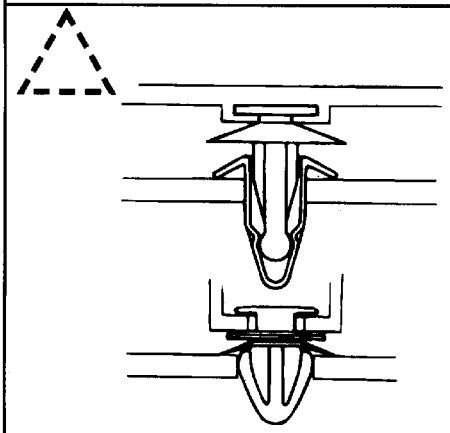
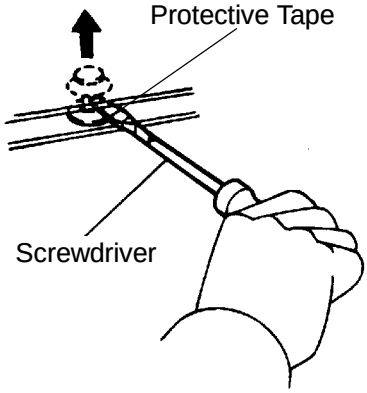
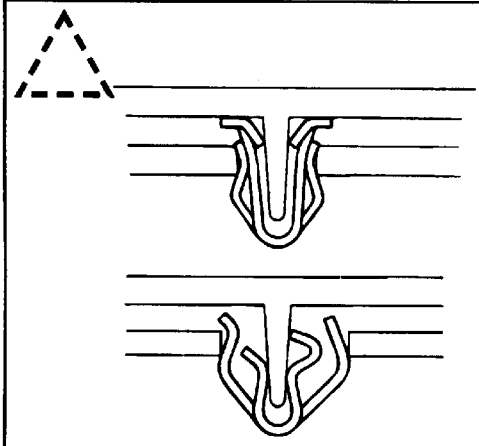
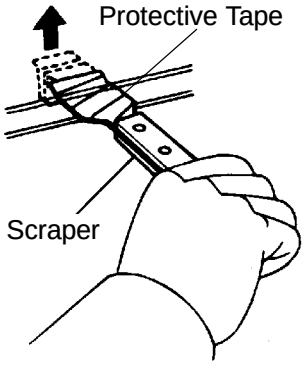
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(g) CLIPS

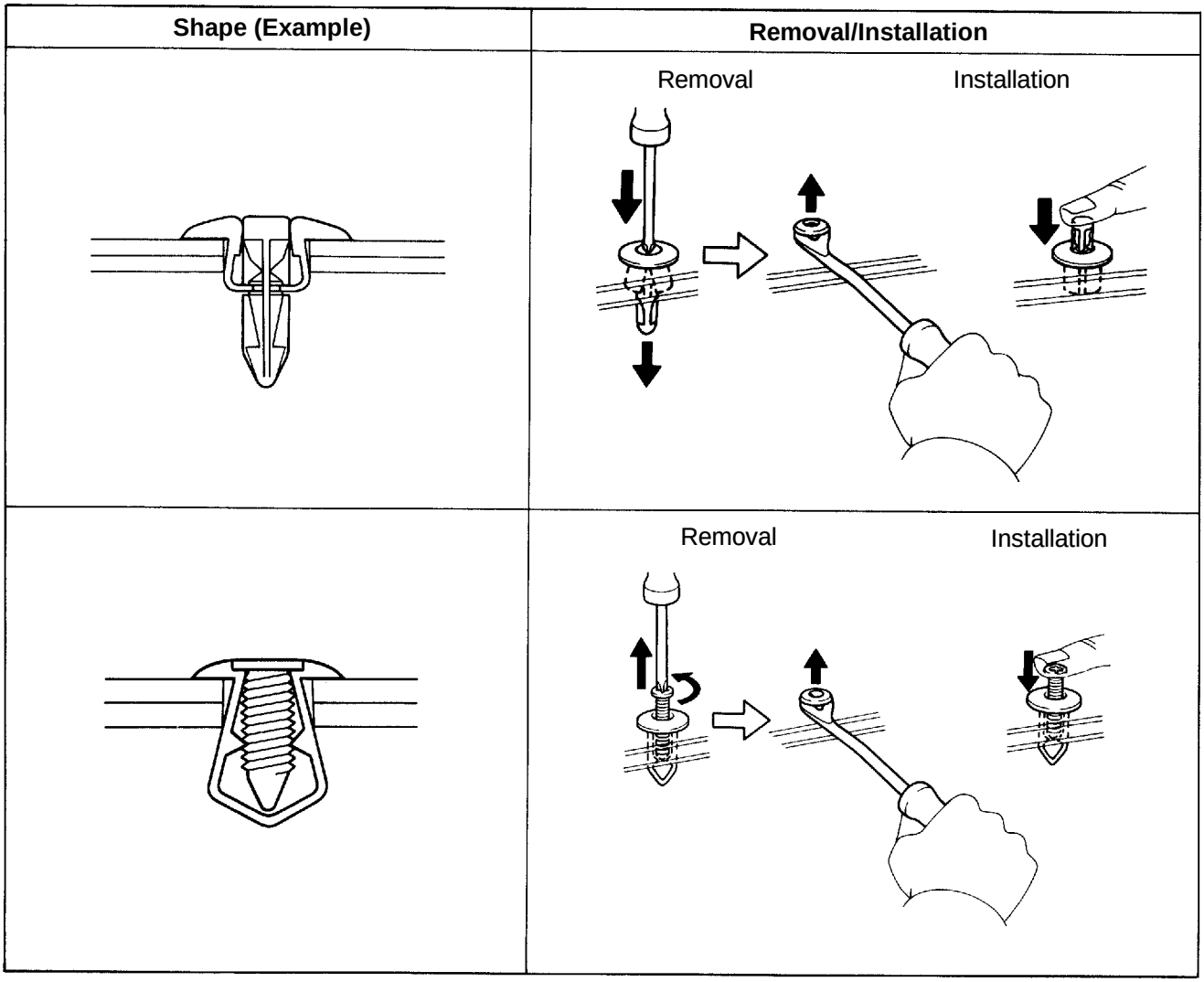
(1) The removal methods of typical clips used in body parts are shown in the table below.

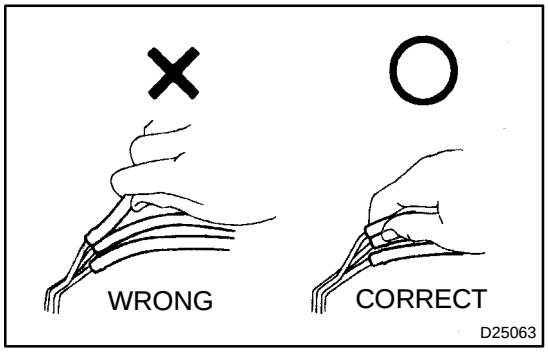
HINT:

If the clip is damaged during the operation, always replace it with a new clip.

Shape (Example)	Removal/Installation
	
	
	

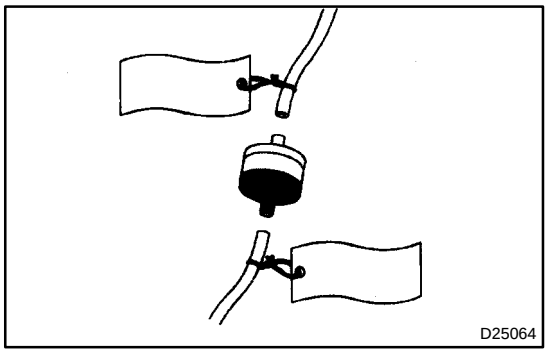
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(h) REMOVAL AND INSTALLATION OF VACUUM HOSES

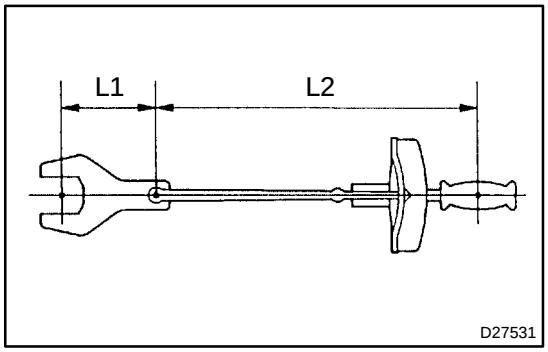
(1) To disconnect vacuum hoses, pull them by holding the end, not the middle of the hose.

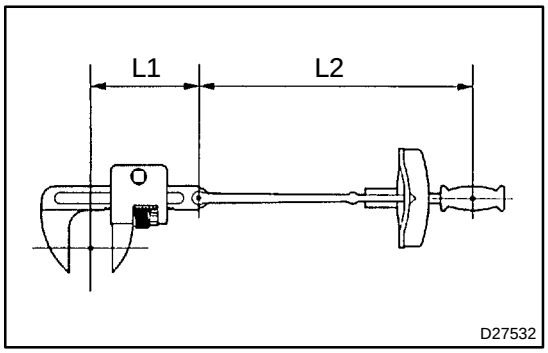


(2) When disconnecting vacuum hoses, use tags to identify where they should be reconnected.

(3) After completing the job, make a double check whether the vacuum hoses are properly connected. A 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. Use a step-down adapter for adjustment. Once the hose has been stretched, it may leak air.





(i) TORQUE WHEN USING TORQUE WRENCH WITH EXTENSION TOOL

(1) When the torque wrench is combined with SST or an extension tool to extend the length, and you tighten until the torque wrench reads the specified torque value, the actual torque becomes excessive.

(2) In this manual, only the specified torque is described. In case of using SST or extension tool, calculate the reading of the torque wrench by the following formula.

(3) Formula T'=T x L2/(L1 + L2)

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)
L2	Length of torque wrench (cm)

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

HINT:

The vehicle is equipped with an SRS (Supplemental Restraint System), such as the horn button assembly, instrument panel passenger airbag assembly, front seat airbag assembly, center airbag sensor assembly, front airbag sensor assembly, side airbag sensor assembly and seat belt pretensioner.

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

Furthermore, 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.

(a) GENERAL NOTICE

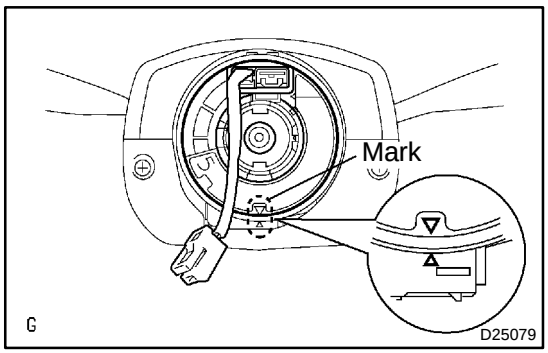
(1) Malfunction symptoms of the supplemental restraint system are difficult to confirm, so the diagnostic trouble codes become the most important source of information when troubleshooting. When troubleshooting the supplemental restraint system, always inspect the diagnostic trouble codes before disconnecting the battery (See Pub. No. RM925E on page 05–947).

(2) Work must be started after 90 seconds from the time that 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. So, if work is started within 90 seconds after 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 is cancelled. So, before starting work, make a record of the contents recorded in each memory system. Then, when work is finished, reset the clock and audio systems as before.

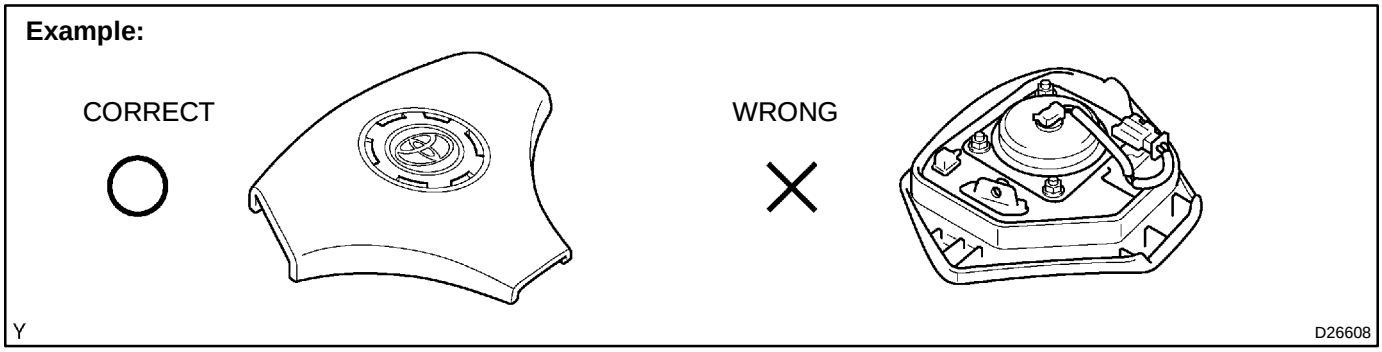
(3) Even in case of a minor collision where the SRS does not deploy, the horn button assembly, instrument panel passenger airbag assembly,curtain shield airbag assembly front seat airbag assembly and seat belt pretensioner should be should be inspected (See Pub. No. RM925E on pages 60–14, 60–27, 60–32 and 60–24).
(4) Never use SRS relating parts from another vehicle. When replacing parts, replace them with new parts.
(5) Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
(6) Never disassemble and repair the airbag sensor assembly, horn button assembly, instrument panel passenger airbag assembly, front seat airbag assembly or seat belt pretensioner.
(7) If the airbag sensor assembly, side airbag sensor assembly, horn button assembly, instrument panel passenger airbag assembly, front seat airbag assembly, seat belt pretensioner have 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, horn button assembly, instrument panel passenger airbag assembly, front seat airbag assembly or seat belt pretensioner to hot air or flames.
(9) Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting an electrical circuit.
(10) Information labels are attached to the SRS components. Follow the instructions on the notices.
(11) After work on the supplemental restraint system is completed, check the SRS warning light (See Pub. No. RM925E on page 05–947).

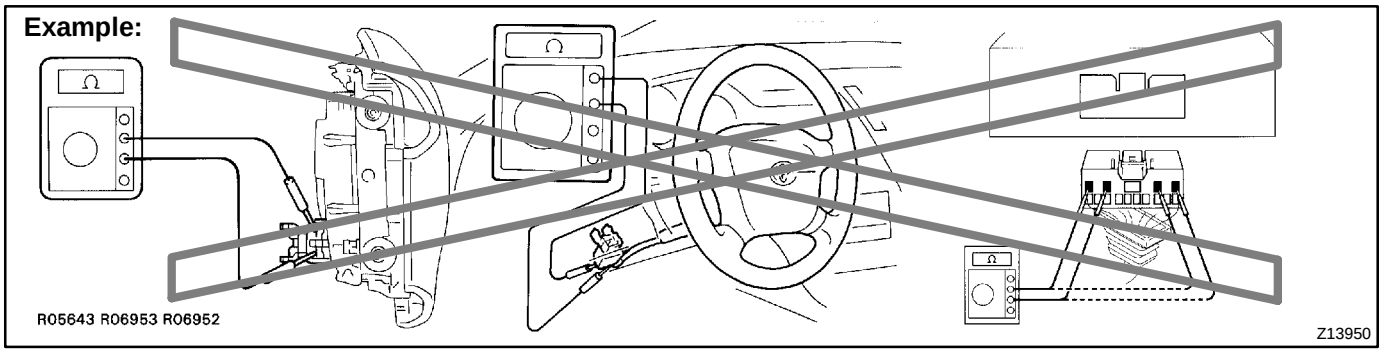


(b) SPIRAL CABLE (in Combination Switch)
(1) The steering wheel must be fitted correctly to the steering column with the spiral cable at the neutral position, otherwise cable disconnection and other troubles may occur. Refer to Pub. No. RM925E on page 60–22 concerning the correct installation of steering wheel.

(c) HORN BUTTON ASSEMBLY (with Airbag)
(1) When removing the horn button assembly or handling a new horn button, it should be placed with the top of the pad surface facing upward. Placing it with the pad surface facing downward may lead to a serious accident if the airbag deploys for some reasons. 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 is very dangerous).
(3) Grease should not be applied to the horn button assembly, and the pad should not be cleaned with detergents of any kinds.
(4) Store the horn button assembly where the ambient temperature remains below 93˚C (200˚F), without high humidity and away from electrical noise.
(5) When using electric welding, disconnect the airbag connector (2 yellow pins) under the steering column near the combination switch connector before starting work.

(6) When disposing the vehicle or the horn button assembly alone, the airbag should be inflated using an SST before disposal (See Pub. No. RM925E on page 60–14).
Perform the operation in a safe place away from electrical noise.





(d) INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY

(1) Always place a removed or new instrument panel passenger 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 deploys.

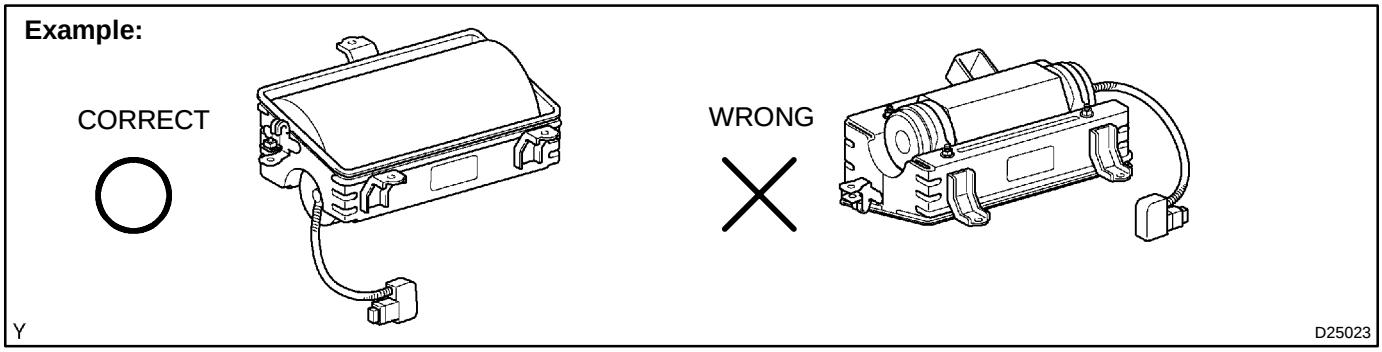
(2) Never measure the resistance of the airbag squib (This may cause the airbag to inflate, which is very dangerous).

(3) Grease should not be applied to the instrument panel passenger airbag assembly, and the airbag door should not be cleaned with detergents of any kind.

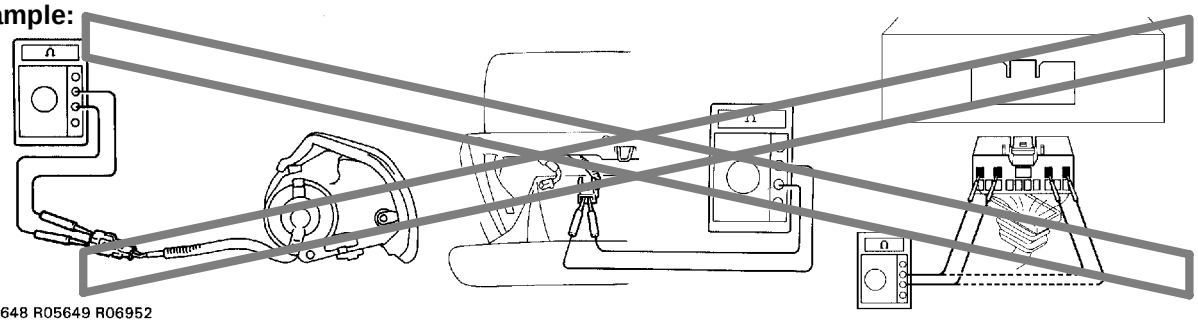
(4) Store the airbag assembly where the ambient temperature remains below 93°C (200°F), without high humidity and away from electrical noise.

(5) When using electric welding, disconnect the airbag connector (4 yellow pins) installed on the assembly before starting work.

(6) When disposing of a vehicle or the airbag assembly alone, the airbag should be inflated using an SST before disposal (See Pub. No. RM925E on page 60–27).
Perform the operation in a safe place away from electrical noise.



Example:



R05648 R05649 R06952

Z13951

(e) FRONT SEAT AIRBAG ASSEMBLY

(1) Always store a removed or new front seat airbag assembly with the airbag inflating 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 is very dangerous.).

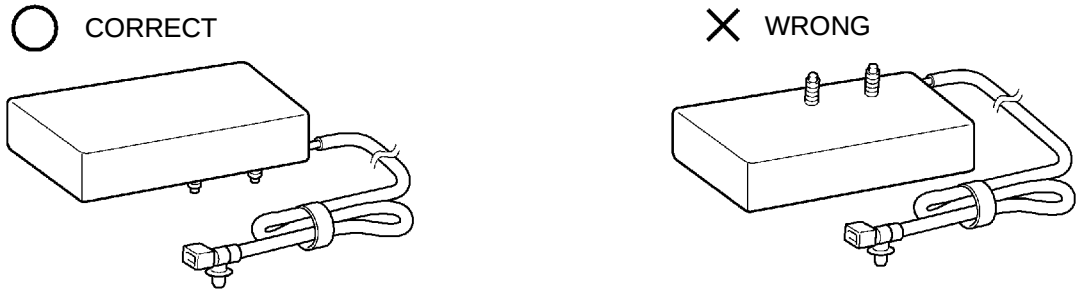
(3) Grease should not be applied to the front seat airbag assembly and the airbag door should not be cleaned with detergents of any kind.

(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 (2 yellow pins) installed on the assembly before starting work.

(6) When disposing of a vehicle or the side airbag assembly alone, the airbag should be inflated using an SST before disposal (See Pub. No. RM925E on page 60–32).
Perform the operation in a safe place away from electrical noise.

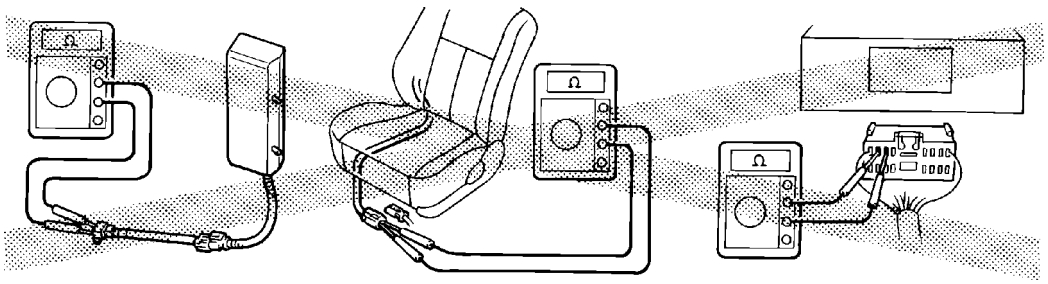
Example:



Y

D26612

Example:



B01546

(f) CURTAIN SHIELD AIRBAG ASSEMBLY

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

NOTICE:

Protection bag is not re-useable.

CAUTION:

Never disassemble the curtain shield airbag assembly.

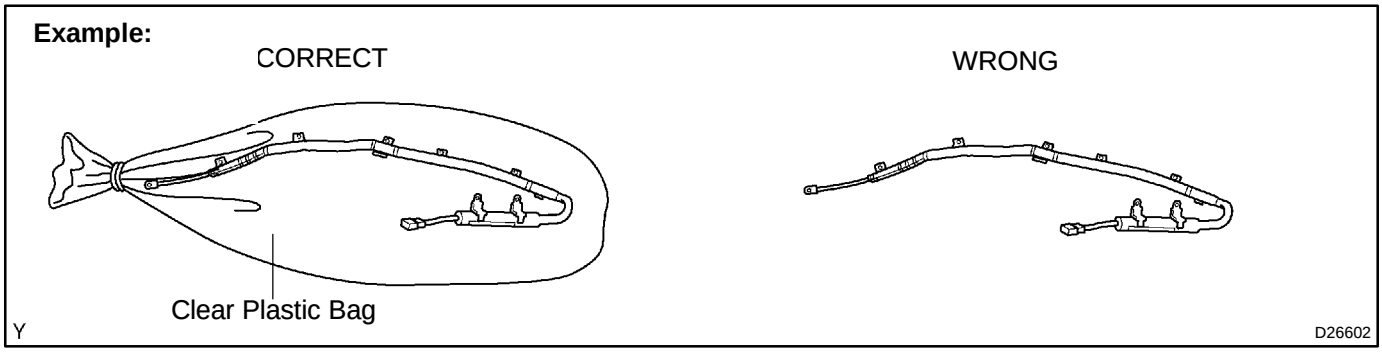
(2) Never measure the resistance of the airbag squib (This may cause the airbag to inflate, which is very dangerous).

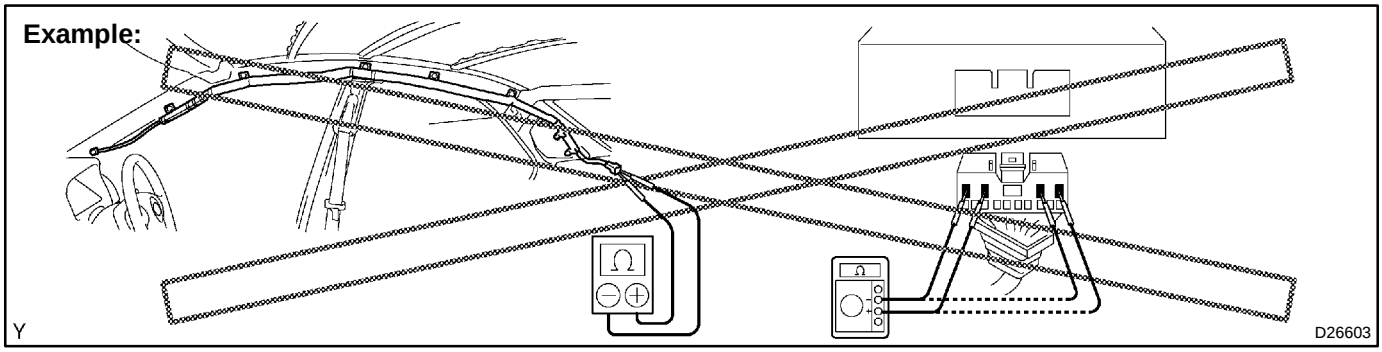
(3) Grease should not be attached to the curtain shield airbag assembly, and the surface should not be cleared with detergents of any kind.

(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 (2 yellow pins) from 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 SST before the disposal (See page 60-24). Perform operation in a safe place away from electrical noise.





(g) SEAT BELT PRETENSIONER

(1) Never measure the resistance of the seat belt pretensioner (This may cause the seat belt pretensioner to activate, which is very dangerous.).

(2) Never disassemble the seat belt pretensioner.

(3) Never install the seat belt pretensioner in another vehicle.

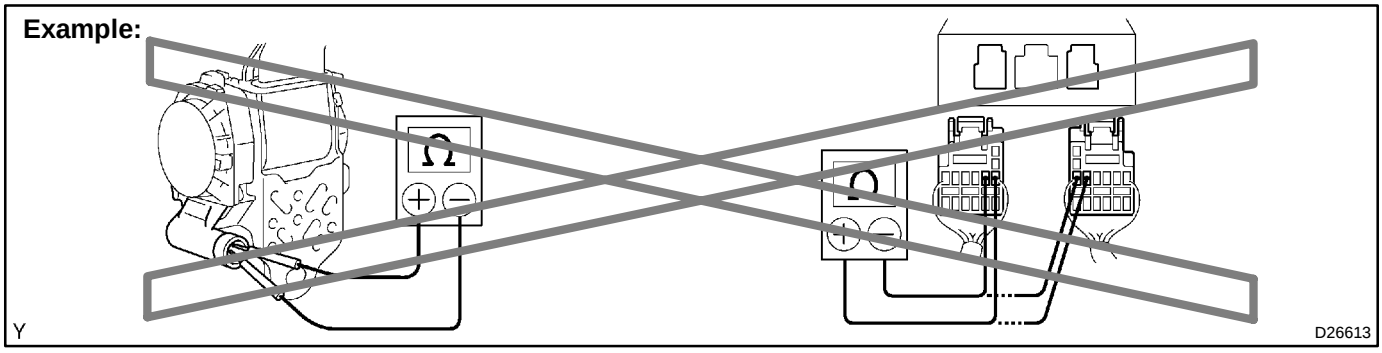
(4) Store the seat belt pretensioner where the ambient temperature remains below 80°C (176°F) without high humidity and away from electrical noise.

(5) When using electric welding, first disconnect the connector (2 yellow pins) before starting work.

(6) When disposing of a vehicle or the seat belt pretensioner alone, the seat belt pretensioner should be activated before disposal (See Pub. No. RM 925E on page 61–4). Perform the operation in a safe place away from electrical noise.

(7) The seat belt pretensioner is hot after activation, so let it cool down sufficiently before disposal. Never apply water to cool down the seat belt pretensioner.

(8) Oil or water should not be put on the front seat outer belt and the front seat outer belt should be cleaned with the appropriate detergents.



(h) AIRBAG SENSOR ASSEMBLY

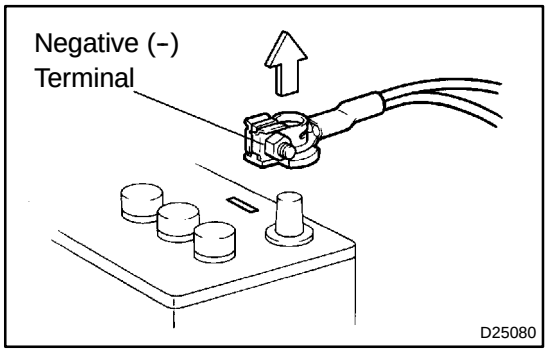
(1) Never reuse the airbag sensor assembly involved in a collision where the SRS has deployed.

(2) The connectors to the airbag sensor assembly should be connected or disconnected with the sensor mounted on the floor. If the connectors are connected or disconnected while the airbag sensor assembly is not mounted to the floor, it could cause an undesired ignition of the supplemental restraint system.

(3) 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, even if only loosening the set bolts of the airbag sensor assembly.

(i) WIRE HARNESS AND CONNECTOR

(1) The SRS wire harness is integrated with the instrument panel wire harness assembly. All connectors in the system are a standard yellow color. If the SRS wire harness becomes disconnected or the connector becomes broken due to an accident, etc., repair or replace it.



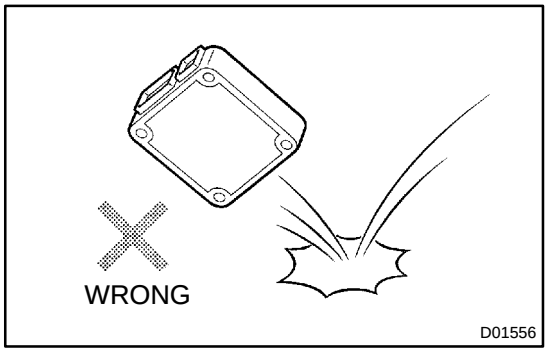
3. ELECTRONIC CONTROL

(a) REMOVAL AND INSTALLATION OF BATTERY TERMINAL

(1) Before performing electrical work, disconnect the battery negative (–) terminal cable beforehand so as to prevent burnt–out damage by short.

(2) When disconnecting and installing the terminal cable, turn the ignition switch and lighting switch OFF, and loosen the terminal nut completely. Perform these operations without twisting or prying the terminal.

(3) When the battery terminal is removed, all the memories of the clock, radio, DTCs, etc. will be erased. So before removing it, check them and note them down.



(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) To disconnect electronic connectors, pull the connector itself, not the wires.

(3) Be careful not to drop electronic components, such as sensors or relays. If they are dropped on a hard floor, they should be replaced and not be reused.

(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 checking the continuity at the 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 OF FUEL SYSTEM PARTS

(1) Work in a place with good air ventilation and without anything that could cause combustion such as a welder, grinder, drill, electric motor or stove in the surroundings.

(2) Never work in a place such as a pit or nearby a pit, as there is a possibility that vaporized fuel will collect in those places.

(b) REMOVING AND INSTALLING OF FUEL SYSTEM PARTS

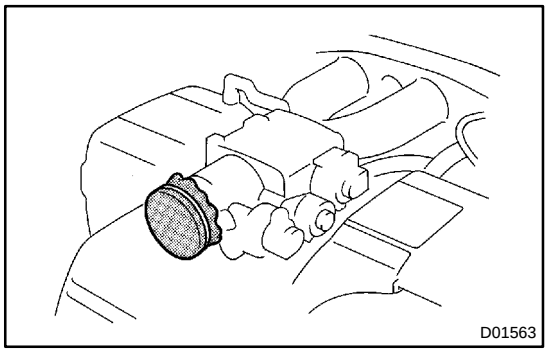
(1) Prepare a fire extinguisher before starting operations.

(2) To prevent static electricity, install a ground on the fuel changer, vehicle and fuel tank, and do not spray much water so as to prevent slipping.

(3) Never use any electric equipment like an electric motor or a working light, as they may create sparks or a high temperature.

(4) Never use an iron hammer, as it may cause sparks.

(5) Dispose separately of shop rags containing fuel deposits.

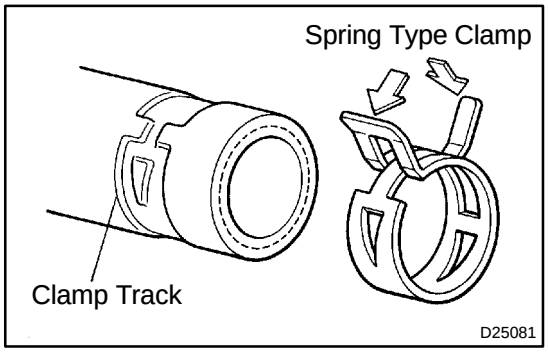


5. REMOVAL AND INSTALLATION OF ENGINE INTAKE PARTS

(a) If any metal tip is mixed in the inlet pass, this may give a bad effect to the engine and turbocharger.

(b) When removing and installing the inlet system parts, close the opening of the removed inlet system parts and the engine with a clean waste cloth or gummed tape.

(c) When installing the inlet system parts, check that there is no mixing of a metal tip.



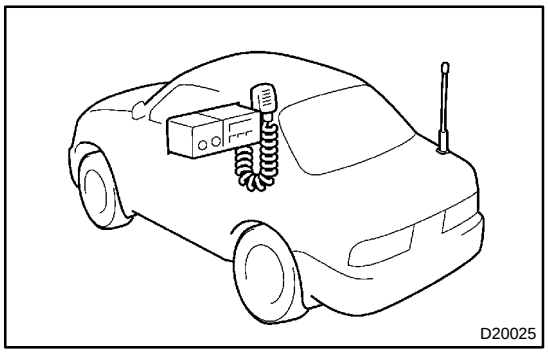
6. HANDLING OF HOSE CLAMPS

(a) Before removing the hose, check the depth of the inserting portion and the clamp position to restore it surely.

(b) Change a deformed or dented clamp for a new one.

(c) In case of reusing the hose, install the clamp on the hose where it has a clamp track.

(d) For a spring type clamp, adjust it by adding force to the arrow mark direction after the installation.



7. FOR VEHICLES EQUIPPED WITH MOBILE COMMUNICATION SYSTEM

(a) Install the antenna as far away from the ECU and sensors of the vehicle electronic systems as possible.

(b) Install an antenna feeder at least 20 cm (7.87 in.) away from the ECU and sensors of the vehicle electronic systems. For details of the ECU and sensors locations, refer to the section on the applicable component.

(c) Prevent the antenna feeder from getting entangled with the other wiring, and keep the antenna feeder separate from other wiring as much as possible.

(d) Check that the antenna and feeder are correctly adjusted.

(e) Do not install any high–powered mobile communication system.

8. FOR VEHICLES EQUIPPED WITH CATALYTIC CONVERTER

CAUTION:

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

(a) Use only diesel fuel for 1CD–FTV engine and unleaded fuel for other engines.

(b) Avoid prolonged idling.
Avoid running the engine at idle speed 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.

010B5-09

VEHICLE LIFT AND SUPPORT LOCATIONS

1. NOTICE ABOUT VEHICLE CONDITION WHEN JACKING UP

(a) As a rule, the vehicle must be unloaded when jacking up. Never jack up or lift up the vehicle loaded with things of heavy weight.

(b) When removing any parts of heavy weight like the engine and transmission, the center of gravity of the vehicle moves. Place a balance weight so as to keep it from rolling, or hold the jacking support location using the mission jack.

2. NOTICE FOR USING 4 POST LIFT

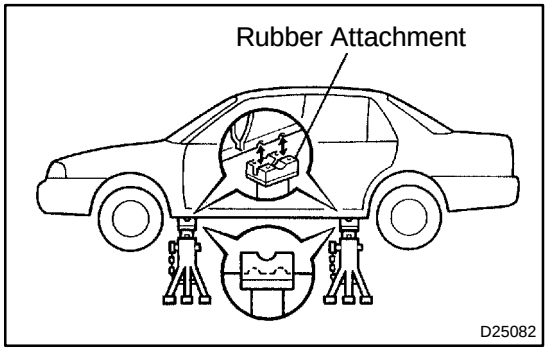
(a) Follow the instruction manual for a safety operation.

(b) Do not damage tires or wheels with a free wheel beam.

(c) Using a wheel stopper, fix the vehicle.

3. NOTICE FOR USING JACK AND SAFETY STAND

(a) Work in the flat place using a wheel stopper at all times.



(b) Use a safety stand with a rubber attachment, as shown in the illustration.

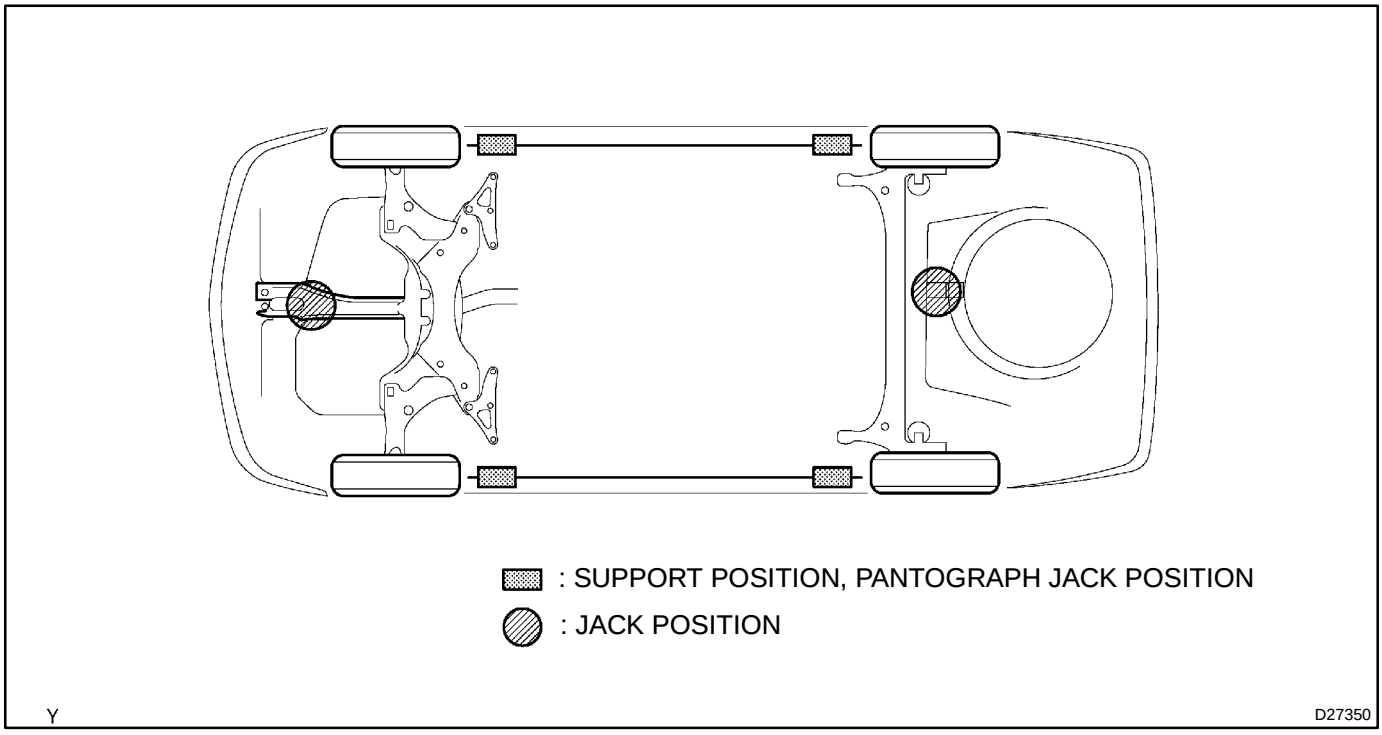
(c) Support the specified location with a jack and safety stand accurately.

(d) When jacking up the front wheels, release the parking brake and place wheel stoppers only behind the rear wheels. When jacking up the rear wheels, place wheel stoppers only in front of the front wheels.

(e) Do not work or leave the vehicle supported only by a jack. Be sure to support the vehicle with a safety stand.

(f) When jacking up only the front wheels or only the rear wheels, place wheel stoppers to both sides of the wheels that contact ground.

(g) When jacking down the vehicle with its front wheels jacked up, release the parking brake and place wheels stoppers only in front of the rear wheels. When jacking down the vehicle with its rear wheels jacked up, place wheel stoppers only behind the front wheels.



4. NOTICE FOR USING SWING ARM TYPE LIFT

(a) Follow the instruction manual of the lift for a safe operation.

(b) Use a cradle with a rubber attachment, as shown in the illustration.

(c) Set in the vehicle so as to make its center of gravity as close as possible to the center of the lift. ("L" becomes short.)

(d) Place the vehicle horizontally by adjusting the height of the cradle, and match the groove of the cradle and the safety stand support location accurately.

(e) Be sure to lock the swing arm during the operation.

(f) Lift the vehicle up until the tires float, and shake the vehicle to make sure that the vehicle is stable.

5. NOTICE FOR USING PLATE TYPE LIFT

(a) Follow the instruction manual of the lift for a safe operation.

(b) Use a plate lift attachment.

(c) Be sure to set the vehicle to the specified position.

Right and left set position	S Place the vehicle over the center of the lift.
Front and rear set position	S Align the cushion gum ends of the plate with the attachment lower ends (A and C). S Align the attachment upper end (B) with the rocker flange front side notch.

(d) Lift the vehicle up until the tires float a bit and shake the vehicle to make sure that the vehicle is stable.

Swing Arm Type Lift:

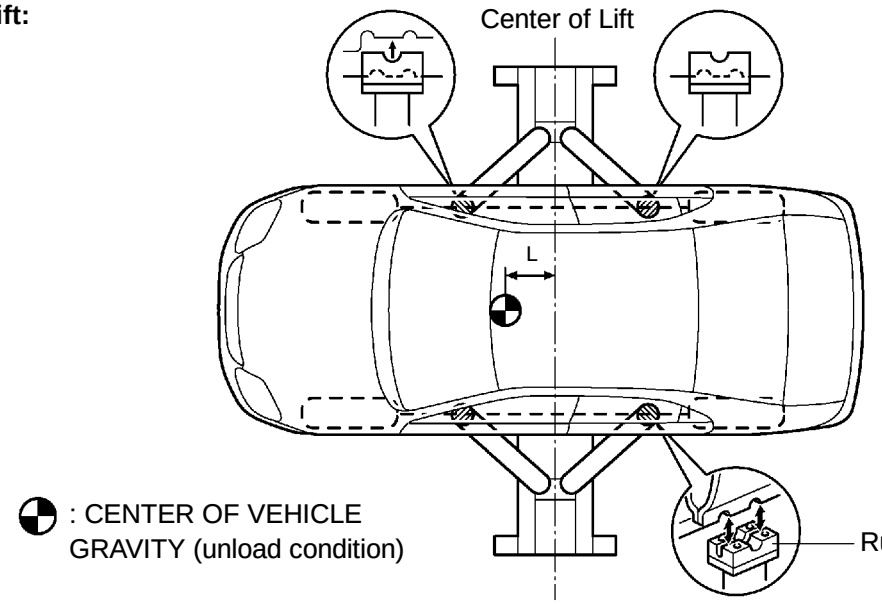
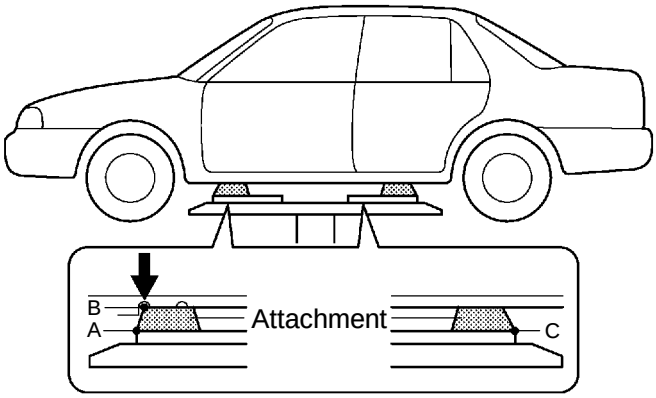
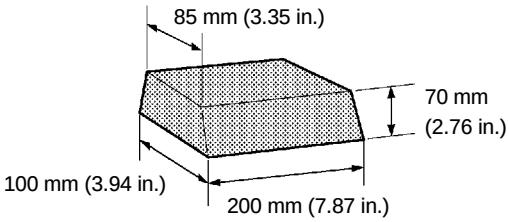


Plate Type Lift:



Attachment Dimensions



Y D25021

HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

010B6-09

GENERAL INFORMATION

A large number of ECU controlled systems are used in the vehicle. In general, the ECU controlled system is considered to be a very intricate system requiring a high level of technical knowledge and expert skill to troubleshoot. The fact is, however, that if you proceed to inspect the circuits one by one, troubleshooting of these systems is not complex. If you have adequate understanding of the system and a basic knowledge of electricity, accurate diagnosis and necessary repair can be performed to locate and fix the problem. This manual is designed through emphasis of the above standpoint to help service technicians perform an accurate and effective troubleshooting, and is compiled for the following major ECU controlled systems:
The troubleshooting procedure and how to make use of it are described on the following pages.

System	Page
1. Supplement Restraint System	05–1

FOR USING HAND–HELD TESTER

- Before using the tester, the tester's operator manual should be read thoroughly.
- If the tester cannot communicate with the ECU controlled systems when you have connected the cable of the tester to the DLC3, turned the ignition switch ON and operated the tester, there is a problem on the vehicle side or tester side.
  (1) If the communication is normal when the tester is connected to another vehicle, inspect the diagnosis data link line (Bus⊕line) or ECU power circuit of the vehicle.
  (2) If the communication is still impossible when the tester is connected to another vehicle, the problem is probably in the tester itself, so perform the Self Test procedures outlined in the Tester Operator's Manual.

010B7-09

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

Carry out troubleshooting in accordance with the procedure on the following page. Here, only the basic procedure is shown. Details are provided in the Diagnostics section, showing the most effective methods for each circuit. Confirm the troubleshooting procedures first for the relevant circuit before beginning the troubleshooting of that circuit.

1	Vehicle brought to workshop

2	Customer problem analysis

(a) Ask the customer about the conditions and the environment when the problem occurred.

3	Symptom confirmation and DTC (and freeze frame data) check

(a) Check the battery positive voltage.
Voltage: 10 - 14 V (Engine stopped)
(b) Visually check the wire harness, connectors and fuses for open and short, etc.
(c) Warm up the engine to the normal operating temperature.
(d) Confirm the problem symptoms and conditions, and check the DTCs according to the applicable chart.

OK	Go to step 5

NG

4	DTC chart

(a) Check the results obtained in step 3, then confirm the inspection procedure for the system or the part which should be checked using the DTC chart.

	Go to step 6

5	Problem symptoms chart

(a) Check the results obtained in step 3, then confirm the inspection procedure for the system or the part which should be checked using the problem symptoms table.

6	Circuit inspection or parts inspection

(a) Confirm the circuit for the system or the part which should be checked using the problem symptoms table or the results obtained in step 4.

7	Repair

(a) Repair the affected system or part in accordance with the instructions in step 6.

8	Confirmation test

(a) After completing repairs, confirm that the problem has been solved.
(If the problem dose not reoccur, perform a confirmation test under the same conditions and in the same environment as when it occurred for the first time.)

END

CUSTOMER PROBLEM ANALYSIS

HINT:

- In troubleshooting, the problem symptoms must be confirmed accurately and all preconceptions must be cleared in order to give an accurate judgment. To ascertain what the problem symptoms are, it is extremely important to ask the customer about the problem and the conditions when it occurred.
- The following 5 items are important points in the problem analysis. Past problems which are thought to be unrelated and the repair history, etc. may also help in some cases, so as much information as possible should be gathered and its relationship with the problem symptoms should be correctly ascertained for a reference in troubleshooting. A customer problem analysis table is provided in Diagnostics section for each system for your use.

Important Points in the Customer Problem Analysis

- What ----- Vehicle model, system name
- When ----- Date, time, occurrence frequency
- Where ----- Road conditions
- Under what conditions? ----- Running conditions, driving conditions, weather conditions
- How did it happen? ----- Problem symptoms

(Sample) Supplemental restraint system check sheet.

CUSTOMER PROBLEM ANALYSIS CHECK

Supplemental Restraint System Check Sheet

Inspector's Name

Customer's Name		**Registration No.**	
		Registration Year	/ /
		Frame No.	
Date Vehicle Brought In	/ /	**Odometer Reading**	km miles

Date Problem First Occurred	/ /
Weather	☐ Fine ☐ Cloudy ☐ Rainy ☐ Snowy ☐ Other
Temperature	Approx.

Vehicle Operation	☐ Starting ☐ Idling ☐ Driving [☐ Constant speed ☐ Acceleration ☐ Deceleration ☐ Other]

SYMPTOM CONFIRMATION AND DIAGNOSTIC TROUBLE CODE

HINT:

- The diagnostic system in COROLLA has various functions. The first function is the Diagnostic Trouble Code (DTC) Check in which a malfunction in the signal circuits to the ECU is stored in code form in the ECU memory. Another function is the Input Signal Check which checks if the signals from various switches are sent to the ECU correctly. By using these check functions, possible areas of the problem can be narrowed down quickly and troubleshooting can be performed effectively. Diagnostic functions are incorporated in the following systems in COROLLA.

System	Diagnostic Trouble Code Check	Input Signal Check (Sensor Check)	Diagnostic Test Mode (Active Test)
Supplement Restraint System			

- In the DTC check, it is very important to determine whether the problem indicated by the DTC is still occurring or has occurred in the past but returned to normal at present. In addition during the problem symptom check it must be checked whether the malfunction indicated by the DTC is directly related to the problem symptom or not. For this reason, the DTC should be checked before and after symptom confirmation to determine the current conditions. If this is not done, it may, depending on the case, result in unnecessary troubleshooting for normally operating systems, making it more difficult to detect the problem area, or in trying to repair irrelevant areas. Therefore, always follow the procedures in the correct order and perform the DTC check.
- A flow chart showing how to proceed with troubleshooting using the diagnostic trouble code (DTC) check is shown the this page. This flow chart shows how to utilize the DTC check effectively. Then, by carefully checking the results, this chart indicates how to proceed either to the DTC troubleshooting or to the troubleshooting of the problem symptoms table.

1	**DTC check**

2	**Making a note and clear the DTCs**

3	**Symptom confirmation**

	Problem symptoms exist
	No problem symptoms exist

a	**Go to step 5**

b

4	**Simulation test using the symptom simulation methods**

5	**DTC check**

	DTC displayed
	Normal code displayed

a **Troubleshooting of problem indicated by DTC**

b

6 Symptom confirmation

	No problem symptoms exist
	Problem symptoms exist

If a DTC was displayed in the initial DTC check, it indicates that a trouble may have occurred in a wire harness or connector in that circuit in the past, therefore check the wire harness and connectors (See page 01–30).

a **System normal**

b

Troubleshooting of each problem symptom

The problem is still occurring in a place other than diagnostic circuit (The DTC displayed first is either for a past problem or it is a secondary problem).

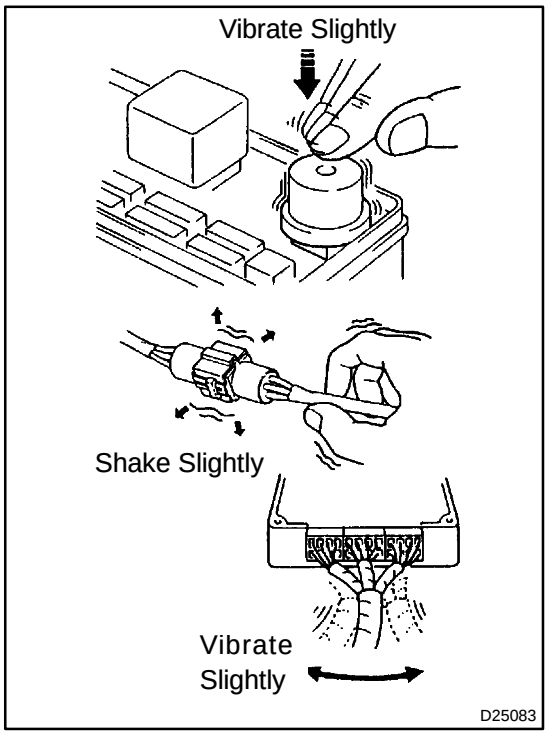
SYMPTOM SIMULATION

HINT:

The most difficult case in troubleshooting is when no symptoms occurs. In such cases, a thorough customer problem analysis must be carried out. Then simulate the same or similar conditions and environment in which the problem occurred in the customer's vehicle. No matter how much experience a technician has, or how skilled he may be, if he proceeds to troubleshoot without confirming the problem symptoms, he will tend to overlook something important in the repair operation and make a wrong guess somewhere, which will only lead to a standstill. For example, for a problem which only occurs when the engine is cold, or for a problem which occurs due to vibration caused by the road during driving, etc., the problem can never be determined when the engine is hot or when the vehicles is at a standstill. Since vibration, heat or water penetration (moisture) is a likely cause for the problem which is difficult to reproduce, the symptom simulation tests introduced here are effective measures in a point that the external causes are applied to the vehicle in a stationary condition.

Important points in the symptom simulation test:

In the symptom simulation test, the problem symptoms should be confirmed, and the problem area or parts must also be found out. To do so, reduce the possible problem circuits according to the symptoms before starting this test and have the hand-held tester connected beforehand. After that, carry out the symptom simulation test, judging whether the circuit being tested is defective or normal and also confirming the problem symptoms at the same time. Refer to the problem symptoms table of each system to narrow down the possible causes of the symptom.



1. VIBRATION METHOD: When vibration seems to be the major cause.

(a) PART AND SENSOR

(1) Apply slight vibration with your finger to the part of the sensor considered to be the problem cause and check that the malfunction occurs.

HINT:

Applying strong vibration to relays may result in open relays.

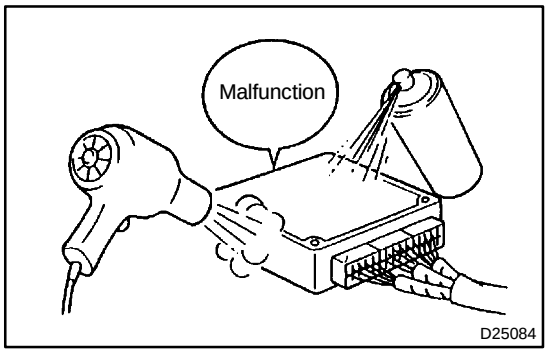
(b) CONNECTORS

(1) Slightly shake the connector vertically and horizontally.

(c) WIRE HARNESS

(1) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.



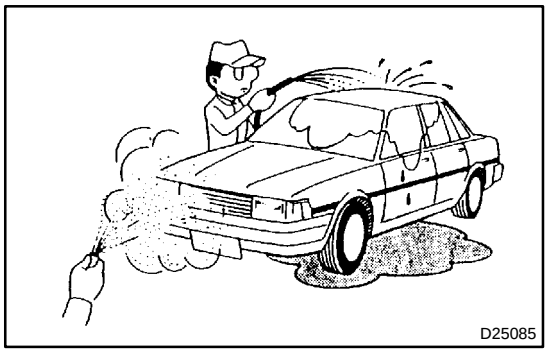
2. HEAT METHOD: If the problem seems to occur when the area in question is heated.

(a) Heat the component that is the possible cause of the malfunction with a hair dryer or similar object. Check if the malfunction occurs.

NOTICE:

- **Do not heat the components to more than 60_C (140_F) (Temperature is limited to keep the components from being damaged).**

S **Do not apply heat directly to the parts in the ECU.**



3. WATER SPRINKLING METHOD: When the malfunction seems to occur on a rainy day or in high–humidity.

(a) Sprinkle water onto the vehicle and check if the malfunction occurs.

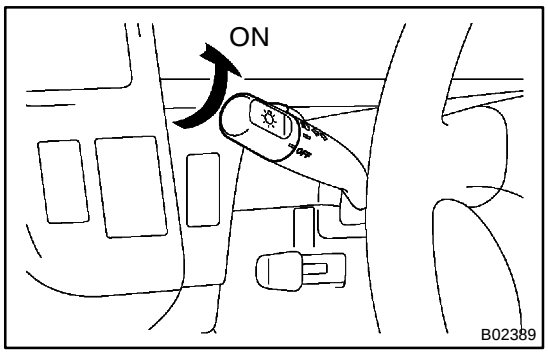
NOTICE:

S **Never sprinkle water directly onto the engine compartment, but indirectly change the temperature and humidity by spraying a mist of water onto the radiator front surface.**

S **Never apply water directly onto the electronic components.**

HINT:

If a vehicle is subject to water leakage, the leaking water may contaminate the ECU. When testing a vehicle with a water leakage problem, special caution must be taken.



4. OTHERS: If the malfunction seems to occur when electrical load is excessive.

(a) Turn on all the electrical equipment including the heater blower, headlights, rear window defogger, etc., and check if the malfunction occurs.

DIAGNOSTIC TROUBLE CODE CHART

The inspection procedures are shown in the table below. This table allows efficient and accurate trouble-shooting using the diagnostic trouble codes displayed in the diagnostic trouble code chart. Proceed with troubleshooting in accordance with the inspection procedures listed in the diagnostic chart corresponding to the diagnostic trouble codes displayed. The diagnostic trouble code chart for the Supplemental Restraint System is shown below as an example.

D DTC No.
Indicates the diagnostic trouble code.

D Page or Instructions
Indicates the page where the inspection procedures for each circuit is to be found, or gives instructions for checking and repairs.

D Trouble Area
Indicates the suspect areas of the problem.

D Detection Item
Indicates the system or details of the problem.

DIAGNOSTIC TROUBLE CODE CHART

If a malfunction code is displayed during the DTC check, check the circuit for that code listed in the table below (Proceed to the page given for that circuit).

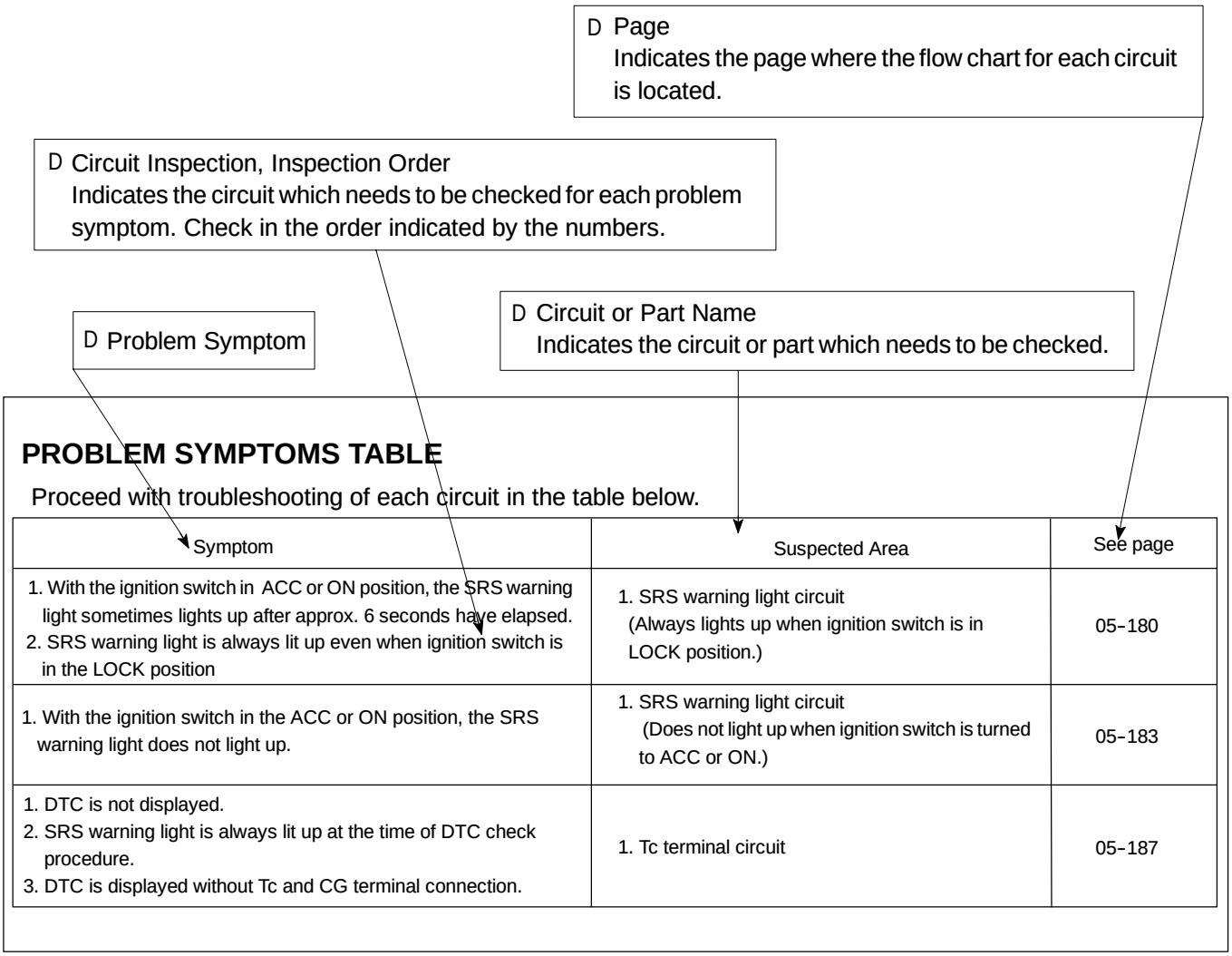
DTC No. (See page)	Detection Item	Trouble Area	SRS Warming Light
B0100/13 (05-119)	D Short in D squib circuit	D Steering wheel pad (squib) D Spiral cable D Airbag sensor assembly D Wire harness	ON
B0101/14 (05-124)	D Open in D squib circuit	D Steering wheel pad (squib) D Spiral cable D Airbag sensor assembly D Wire harness	ON
B0102/11 (05-128)	D Short in D squib circuit (to ground)	D Steering wheel pad (squib) D Spiral cable D Airbag sensor assembly D Wire harness	ON
B0103/12 (05-132)	D Short in D squib circuit (to B+)	D Steering wheel pad (squib) D Spiral cable D Airbag sensor assembly D Wire harness	ON
B0105/53 (05-136)	D Short in P squib circuit	D Front passenger airbag assembly (squib) D Airbag sensor assembly D Wire harness	ON
B0106/54	D Open in P squib circuit	D Front passenger airbag assembly (squib) D Airbag sensor assembly D Wire harness	
	circuit (to Ground)	D Front passenger airbag assembly (squib) D Airbag sensor assembly D Wire harness	

PROBLEM SYMPTOMS TABLE

The suspected circuits or parts for each problem symptom are shown in the table below. Use this table to troubleshoot the problem when a Normal code is displayed in the diagnostic trouble code chart but the problem is still occurring. Numbers in the table indicate the order in which the circuits or parts should be checked.

HINT:

When the problem is not detected by the diagnostic system even though the problem symptom is present, it may be that the problem is occurring outside the detection range of the diagnostic system.



CIRCUIT INSPECTION

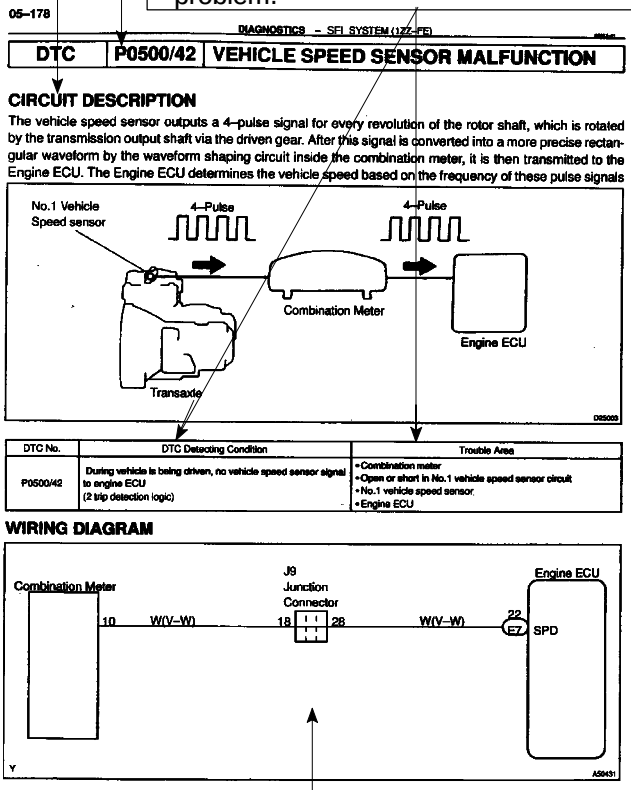
How to read and use each page is shown below.

D Circuit Description
The major role, operation, etc. of the circuit and its component parts are explained.

D Diagnostic Trouble Code No. and Detection Item

D Indicates the diagnostic trouble codes, diagnostic trouble code settings and suspect areas of the problem.

D Inspection Procedures
Use the inspection procedures to determine if the circuit is normal or abnormal. If it is abnormal, use it to determine whether the problem is located in the sensors, actuators, wire harness or ECU.


05–178

DIAGNOSTICS – SFI SYSTEM (1ZZ–FE)

DTC P0500/42 VEHICLE SPEED SENSOR MALFUNCTION

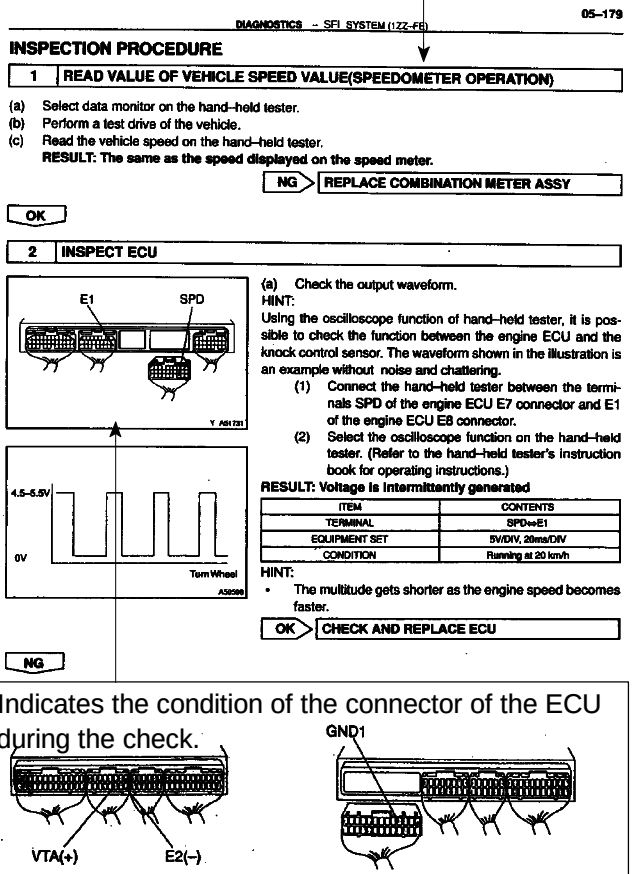
CIRCUIT DESCRIPTION

The vehicle speed sensor outputs a 4–pulse signal for every revolution of the rotor shaft, which is rotated by the transmission output shaft via the driven gear. After this signal is converted into a more precise rectangular waveform by the waveform shaping circuit inside the combination meter, it is then transmitted to the Engine ECU. The Engine ECU determines the vehicle speed based on the frequency of these pulse signals

DTC No.	DTC Detecting Condition	Trouble Area
P0500/42	During vehicle is being driven, no vehicle speed sensor signal to engine ECU (2 trip detection logic)	•Combination meter •Open or short in No.1 vehicle speed sensor circuit •No.1 vehicle speed sensor •Engine ECU

WIRING DIAGRAM

D Wiring Diagram
This shows a wiring diagram of the circuit.
Use this diagram together with ELECTRICAL WIRING DIAGRAM to thoroughly understand the circuit.
Wire colors are indicated by an alphabetical code.
B = Black, L = Blue, R = Red, BR = Brown,
LG = Light Green, V = Violet, G = Green,
O = Orange, W = White, GR = Gray, P = Pink,
Y = Yellow, SB = Sky Blue
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.


DIAGNOSTICS – SFI SYSTEM (1ZZ–FE) 05–179

INSPECTION PROCEDURE

1 READ VALUE OF VEHICLE SPEED VALUE(SPEEDOMETER OPERATION)

(a) Select data monitor on the hand–held tester.
(b) Perform a test drive of the vehicle.
(c) Read the vehicle speed on the hand–held tester.
RESULT: The same as the speed displayed on the speed meter.

NG → REPLACE COMBINATION METER ASSY

OK

2 INSPECT ECU

(a) Check the output waveform.
HINT:
Using the oscilloscope function of hand–held tester, it is possible to check the function between the engine ECU and the knock control sensor. The waveform shown in the illustration is an example without noise and chattering.
(1) Connect the hand–held tester between the terminals SPD of the engine ECU E7 connector and E1 of the engine ECU E8 connector.
(2) Select the oscilloscope function on the hand–held tester. (Refer to the hand–held tester's instruction book for operating instructions.)
RESULT: Voltage is intermittently generated

ITEM	CONTENTS
TERMINAL	SPD⇔E1
EQUIPMENT SET	5V/DIV, 20ms/DIV
CONDITION	Running at 20 km/h

HINT:
• The multitude gets shorter as the engine speed becomes faster.

OK → CHECK AND REPLACE ECU

NG

D Indicates the condition of the connector of the ECU during the check.

Connector being checked is connected.
Connections of tester are indicated by (+), (–) after terminals name.

Connector being checked is disconnected.
For inspection of connector with body ground, there is nothing about the body ground written down.

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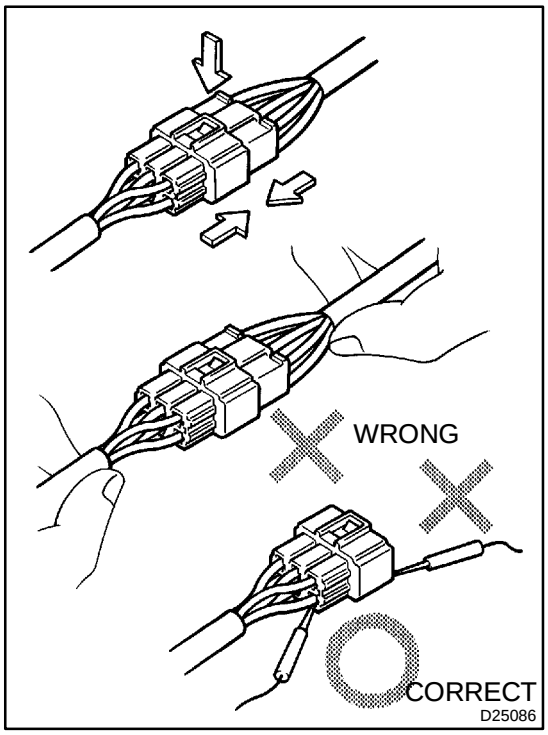
010B8-06

ELECTRONIC CIRCUIT INSPECTION PROCEDURE

1. BASIC INSPECTION

(a) RESISTANCE MEASURING CONDITION OF ELECTRONIC PARTS

(1) Unless stated, all resistance is measured at an ambient temperature of 20_C (68_F). Because the resistance may be outside the specifications if measured at high temperatures immediately after the vehicle has been running, measurements should be made when the engine has cooled down.



(b) HANDLING OF CONNECTOR

(1) When removing the connector with a lock, press the connector toward the engagement and remove the lock by making the lock claw movable easily.

(2) When removing the connector, do not hold the harness, but hold the connector.

(3) Before connecting the connector, check that there are no deformation, damage and missing of the terminals.

(4) Connection of the connector with a lock should be securely done until it makes a click sound.

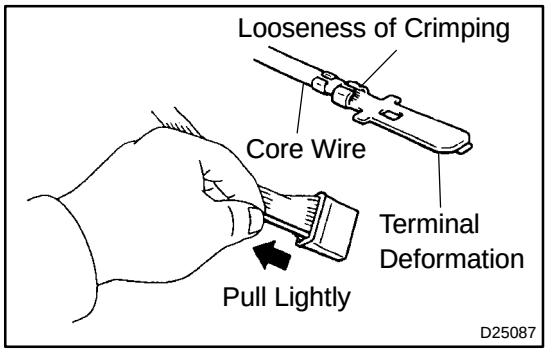
(5) In case of checking the connector with a Toyota electrical tester, perform it at the back side (harness side) of the connector using a mini test lead.

NOTICE:

- **As a water proof connector cannot be checked from its back side, check by connecting the sub-harness.**
- **Do not damage the terminals by moving the inserted tester needle.**

(c) CONNECTOR CHECKING POINTS

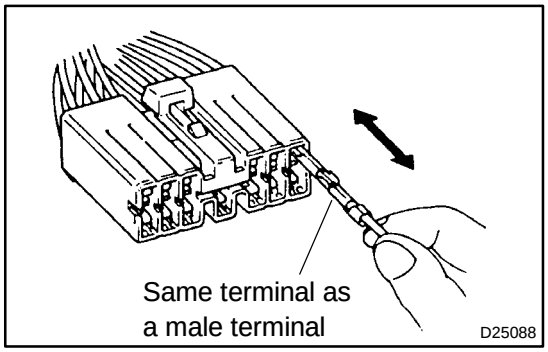
(1) Checking when the connector is connected:
By holding the connector, check the inserted condition and locking efficiency (engaged condition).



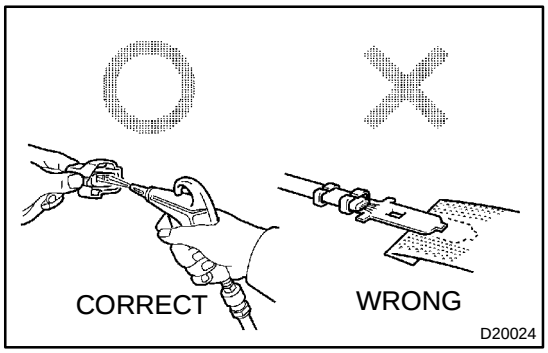
(2) Checking when the connector is removed:
Check the wire harness by pulling lightly (missing terminal, terminal crimping condition, core wire break).
Check visually if there is any rust, metal tip, water and bend of terminal (rust, mixing of foreign object, terminal deformation).

NOTICE:

When testing a gold-plated female terminal, always use a gold-plated male terminal.



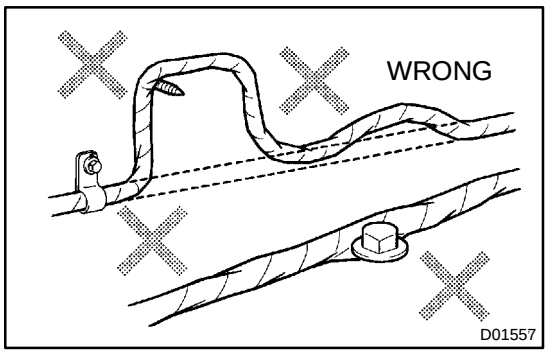
(3) Checking of the contact pressure of the terminal:
Prepare the same terminal as a male terminal.
By inserting it to a female terminal, check the engaged condition and sliding load.



(d) REPAIR METHOD OF CONNECTOR TERMINAL

(1) In case that there is any soil at the contact point, clean the contact point using an air gun or shop rag. At this time, never polish the contact point using a sand paper as the platings may come off.

(2) In case of abnormal contact pressure, replace the female terminal. At this time, if a male terminal is gold-plated (gold color), use gold-plated female terminals and if it is silver-plated (silver color), use silver-plated female terminals.



(e) HANDLING OF WIRE HARNESS

(1) In case of removing the wire harness, check the wiring and clamping condition before the work so as to restore it correctly.

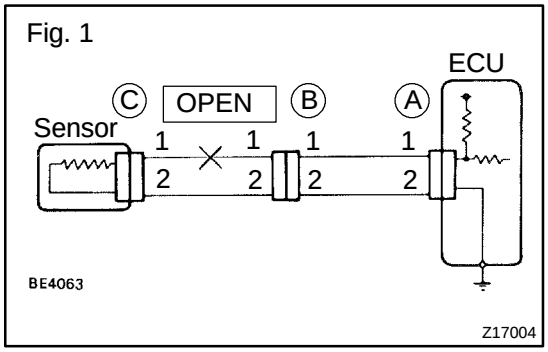
(2) Never twist, pull or slack off the wire harness more than necessary.

(3) Never make the wire harness come into contact with a high-temperature part, rotating, moving, vibrating or acute-angled part (edge of the panel, tip of the screw, etc.).

(4) When installing parts, never sandwich the wire harness between them.

(5) Never cut or break the cover of the wire harness. If it is cut or broken, replace it or securely repair it with a vinyl tape.

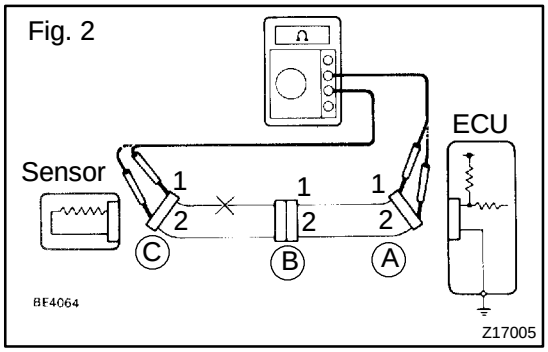
Fig. 1



2. CHECK OPEN CIRCUIT

(a) For the open circuit in the wire harness in Fig. 1, perform "(b) Check the continuity" or "(c) Check the voltage" to locate the section.

Fig. 2



(b) Check the continuity.

(1) Disconnect connectors "A" and "C" and measure the resistance between them.

Resistance: 1 Ω or less

HINT:

Measure the resistance while lightly shaking the wire harness vertically and horizontally.

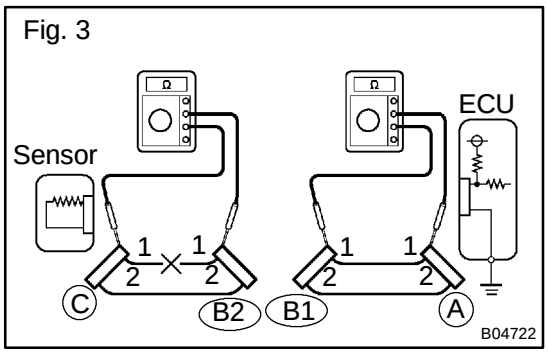
In the case of Fig. 2:

Between terminal 1 of connector "A" and terminal 1 of connector "C" → No continuity (open)

Between terminal 2 of connector "A" and terminal 2 of connector "C" → Continuity

Therefore, it is found out that there is an open circuit between terminal 1 of connector "A" and terminal 1 of connector "C".

Fig. 3



(2) Disconnect connector "B" and measure the resistance between the connectors.

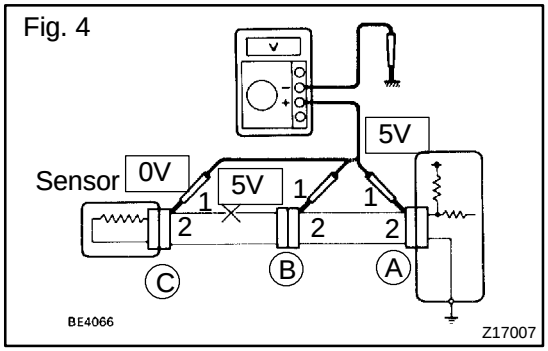
In the case of Fig. 3:

Between terminal 1 of connector "A" and terminal 1 of connector "B1" → Continuity

Between terminal 1 of connector "B2" and terminal 1 of connector "C" → No continuity (open)

Therefore, it is found out that there is an open circuit between terminal 1 of connector "B2" and terminal 1 of connector "C".

Fig. 4



(c) Check the voltage.

(1) In a circuit in which voltage is applied (to the ECU connector terminal), an open circuit can be checked by conducting a voltage check.

As shown in Fig. 4, with each connector still connected, measure the voltage between the body ground and terminal 1 of connector "A" at the ECU 5V output terminal, terminal 1 of connector "B", and terminal 1 of connector "C", in that order.

(2) If the results are:

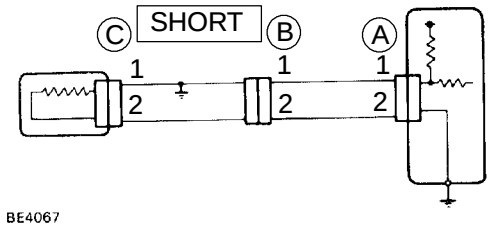
5 V: Between terminal 1 of connector "A" and body ground

5 V: Between terminal 1 of connector "B" and body ground

0 V: Between terminal 1 of connector "C" and body ground

Then it is found out that there is an open circuit in the wire harness between terminal 1 of "B" and terminal 1 of "C".

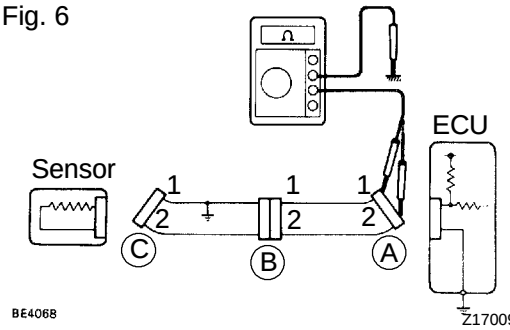
Fig. 5



3. CHECK SHORT CIRCUIT

(a) If the wire harness is ground shorted as in Fig. 5, locate the section by conducting a "continuity check with the body ground".

Fig. 6



(b) Check continuity with the body ground.

(1) Disconnect connectors "A" and "C" and measure the resistance between terminal 1 and 2 of connector "A" and the body ground.

Resistance: 1 MΩ or higher

HINT:

Measure the resistance while lightly shaking the wire harness vertically and horizontally.

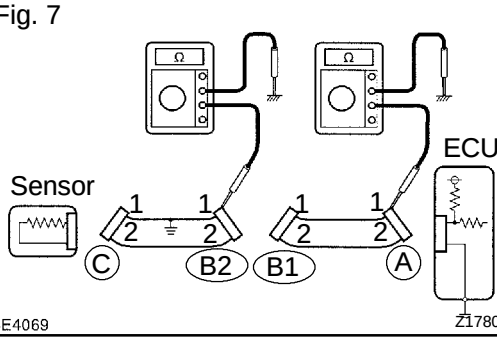
In the case of Fig. 6:

Between terminal 1 of connector "A" and body ground → Continuity (short)

Between terminal 2 of connector "A" and body ground → No continuity

Therefore, it is found out that there is a short circuit between terminal 1 of connector "A" and terminal 1 of connector "C".

Fig. 7



(2) Disconnect connector "B" and measure the resistance between terminal 1 of connector "A" and the body ground, and terminal 1 of connector "B2" and the body ground.

In the case of Fig. 7:

Between terminal 1 of connector "A" and body ground → No continuity

Between terminal 1 of connector "B2" and body ground → Continuity (short)

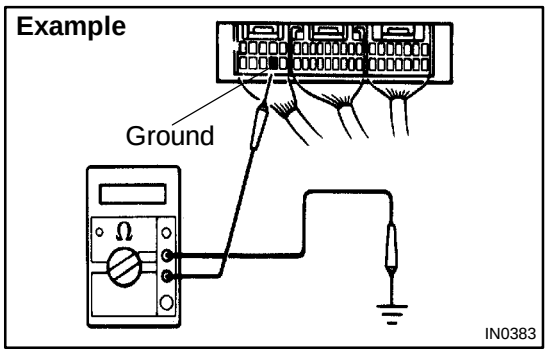
Therefore, it is found out that there is a short circuit between terminal 1 of connector "B2" and terminal 1 of connector "C".

4. CHECK AND REPLACE ECU

NOTICE:

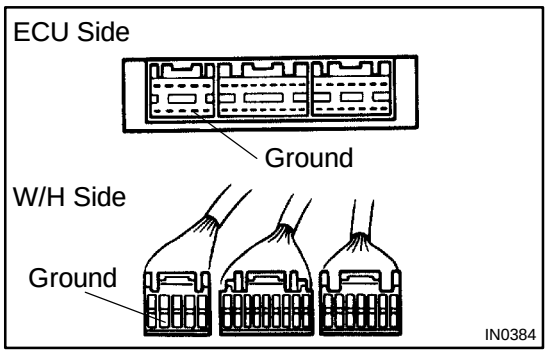
- **Start an inspection of the connector from the back-side of the connector at the wire harness side with the connector connected to the ECU.**
- **When no measuring condition is specified, perform the inspection with the engine stopped and also the ignition switched ON.**

(a) First check the ECU ground circuit. If it is faulty, repair it. If it is normal, the ECU could be faulty. So replace the ECU with a normal functioning one and check if the symptoms appear.



(1) Measure the resistance between the ECU ground terminal and body ground.

Resistance: 1 Ω or less



(2) Disconnect the ECU connector, check the ground terminals on the ECU side and wire harness side for bend and check the contact pressure.

TERMS

ABBREVIATIONS USED IN THIS MANUAL

010B9-08

Abbreviations	Meaning
ABS	Anti-Lock Brake System
AC	Alternating Current
ACC	Accessory
ACIS	Acoustic Control Induction System
ACSD	Automatic Cold Start Device
A.D.D.	Automatic Disconnecting Differential
A/F	Air-Fuel Ratio
AHC	Active Height Control Suspension
ALR	Automatic Locking Retractor
ALT	Alternator
AMP	Amplifier
ANT	Antenna
APPROX.	Approximately
ASSY	Assembly
A/T, ATM	Automatic Transmission (Transaxle)
ATF	Automatic Transmission Fluid
AUTO	Automatic
AUX	Auxiliary
AVG	Average
AVS	Adaptive Variable Suspension
B+	Battery Voltage
BA	Brake Assist
BACS	Boost Altitude Compensation System
BAT	Battery
BDC	Bottom Dead Center
B/L	Bi-Level
B/S	Bore-Stroke Ratio
BTDC	Before Top Dead Center
BVSV	Bimetallic Vacuum Switching Valve
Calif.	California
CAN	Controller Area Network
CB	Circuit Breaker
CCo	Catalytic Converter For Oxidation
CD	Compact Disc
CF	Cornering Force
CG	Center Of Gravity
CH	Channel
COMB.	Combination
CPE	Coupe
CPS	Combustion Pressure Sensor
CPU	Central Processing Unit
CRS	Child Restraint System
CTR	Center
C/V	Check Valve
CV	Control Valve
CW	Curb Weight
DC	Direct Current
DEF	Defogger

Abbreviations	Meaning
DFL	Deflector
DIFF.	Differential
DIFF. LOCK	Differential Lock
D/INJ	Direct Injection
DLC	Data Link Connector
DLI	Distributorless Ignition
DOHC	Double Overhead Cam
DP	Dash Pot
DS	Dead Soak
DSP	Digital Signal Processor
DTC	Diagnostic Trouble Code
DVD	Digital Versatible Disc
EBD	Electric Brake force Distribution
ECAM	Engine Control And Measurement System
ECD	Electronic Controlled Diesel
ECDY	Eddy Current Dynamometer
ECU	Electronic Control Unit
ED	Electro-Deposited Coating
EDU	Electronic Driving Unit
EDIC	Electric Diesel Injection Control
EFI	Electronic Fuel Injection
E/G	Engine
EGR	Exhaust Gas Recirculation
EGR-VM	EGR-Vacuum Modulator
ELR	Emergency Locking Retractor
EMPS	Electric Motor Power Steering
ENG	Engine
ESA	Electronic Spark Advance
ETCS-i	Electronic Throttle Control System-Intelligent
EVAP	Evaporative Emission Control
EVP	Evaporator
E-VRV	Electric Vacuum Regulating Valve
EX, EXH	Exhaust
FE	Fuel Economy
FF	Front-Engine Front-Wheel-Drive
F/G	Fuel Gauge
FIPG	Formed In Place Gasket
FL	Fusible Link
F/P	Fuel Pump
FPU	Fuel Pressure Up
Fr	Front
FR	Front-Engine Rear-Wheel-Drive
F/W	Flywheel
FW/D	Flywheel Damper
FWD	Front-Wheel-Drive
GAS	Gasoline
GND	Ground
GPS	Global Positioning System
HAC	High Altitude Compensator
H/B	Hatchback
H-FUSE	High Current Fuse

Abbreviations	Meaning
HI	High
HID	High Intensity Discharge (Head Lamp)
HPU	Hydrraulic Power Unit
HSG	Housing
HT	Hard Top
HWS	Heated Windshield System
IAC	Idle Air Control
IC	Integrated Circuit
IDI	Indirect Diesel Injection
IFS	Independent Front Suspension
IG	Ignition
IIA	Integrated Ignition Assembly
IN	Intake (Manifold, Valve)
INT	Intermittent
I/P	Instrument Panel
IRS	Independent Rear Suspension
ISC	Idle Speed Control
J/B	Junction Block
J/C	Junction Connector
KD	Kick–Down
LAN	Local Area Network
LB	Liftback
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LH	Left–Hand
LHD	Left–Hand Drive
L/H/W	Length, Height, Width
LLC	Long–Life Coolant
LNG	Liquified Natural Gas
LO	Low
LPG	Liquified Petroleum Gas
LSD	Limited Slip Differential
LSP & PV	Load Sensing Proportioning And Bypass Valve
LSPV	Load Sensing Proportioning Valve
MAP	Manifold Absolute Pressure
MAX.	Maximum
M–FUSE	Mediam Current Fuse
MIC	Microphone
MIL	Malfunction Indicator Lamp
MIN.	Minimum
MG1	Motor Generator No.1
MG2	Motor Generator No.2
MP	Multipurpose
MPI	Multipoint Electronic Injection
MPX	Multiplex Communication System
M/T, MTM	Manual Transmission
MT	Mount
MTG	Mounting
N	Neutral
NA	Natural Aspiration
No.	Number

Abbreviations	Meaning
O/D	Overdrive
OEM	Original Equipment Manufacturing
OHC	Overhead Camshaft
OHV	Overhead Valve
OPT	Option
ORVR	On-Board Refilling Vapor Recovery
O/S	Oversize
P & BV	Proportioning And Bypass Valve
PCS	Power Control System
PCV	Positive Crankcase Ventilation
PKB	Parking Brake
PPS	Progressive Power Steering
PS	Power Steering
PTO	Power Take-Off
P/W	Power Window
R & P	Rack And Pinion
RAM	Random Access Memory
R/B	Relay Block
RBS	Recirculating Ball Type Steering
R/F	Reinforcement
RFS	Rigid Front Suspension
RH	Right-Hand
RHD	Right-Hand Drive
RLY	Relay
ROM	Read Only Memory
Rr	Rear
RR	Rear-Engine Rear-Wheel-Drive
RRS	Rigid Front Suspension
RWD	Rear-Wheel-Drive
SDN	Sedan
SEN	Sensor
SICS	Starting Injection Control System
SOC	State Of Charge
SOHC	Single Overhead Camshaft
SPEC	Specification
SPI	Single Point Injection
SRS	Supplemental Restraint System
SSM	Special Service Materials
SST	Special Service Tools
STD	Standard
STJ	Cold-Start Fuel Injection
SW	Switch
SYS	System
T/A	Transaxle
TACH	Tachometer
TBI	Throttle Body Electronic Fuel Injection
TC	Turbocharger
TCCS	TOYOTA Computer-Controlled System
TCV	Timing Control Valve
TDC	Top Dead Center
TEMP.	Temperature

Abbreviations	Meaning
TEMS	TOYOTA Electronic Modulated Suspension
TFT	Toyota Free-Tronic
TIS	Total Information System For Vehicle Development
T/M	Transmission
TMC	TOYOTA Motor Corporation
TMMK	TOYOTA Motor Manufacturing Kentucky, Inc.
TRC	Traction Control System
TURBO	Turbocharge
TWC	Three-Way Catalyst
U/D	Underdrive
U/S	Undersize
VCV	Vacuum Control Valve
VENT	Ventilator
VIN	Vehicle Identification Number
VPS	Variable Power Steering
VSC	Vehicle Stability Control
VSV	Vacuum Switching Valve
VTV	Vacuum Transmitting Valve
VVT-i	Variable Valve Timing-Intelligent
w/	With
WGN	Wagon
W/H	Wire Harness
w/o	Without
WU-TWC	Warm Up Three-Way Catalytic Converter
WU-OC	Warm Up Oxidation Catalytic Converter
1st	First
2nd	Second
2WD	Two Wheel Drive Vehicle (4 x 2)
3rd	Third
4th	Fourth
4WD	Four Wheel Drive Vehicle (4 x 4)
4WS	Four Wheel Steering System
5th	Fifth

010BA-10

GLOSSARY OF SAE AND TOYOTA TERMS

This glossary lists all SAE–J1930 terms and abbreviations used in this manual in compliance with SAE recommendations, as well as their TOYOTA equivalents.

SAE ABBREVIATIONS	SAE TERMS	TOYOTA TERMS ( )--ABBREVIATIONS
A/C	Air Conditioning	Air Conditioner
ACL	Air Cleaner	Air Cleaner, A/CL
AIR	Secondary Air Injection	Air Injection (AI)
AP	Accelerator Pedal	–
B+	Battery Positive Voltage	+B, Battery Voltage
BARO	Barometric Pressure	HAC
CAC	Charge Air Cooler	Intercooler
CARB	Carburettor	Carburettor
CFI	Continuous Fuel Injection	–
CKP	Crankshaft Position	Crank Angle
CL	Closed Loop	Closed Loop
CMP	Camshaft Position	Cam Angle
CPP	Clutch Pedal Position	–
CTOX	Continuous Trap Oxidizer	–
CTP	Closed Throttle Position	LL ON, Idle ON
DFI	Direct Fuel Injection (Diesel)	Direct Injection (DI)
DI	Distributor Ignition	–
DLC1 DLC2 DLC3	Data Link Connector 1 Data Link Connector 2 Data Link Connector 3	1: Check Connector 2: Total Diagnosis Comunication Link (TDCL) 3: OBD II Diagnostic Connector
DTC	Diagnostic Trouble Code	Diagnostic Code
DTM	Diagnostic Test Mode	–
ECL	Engine Control Level	–
ECM	Engine Control Module	Engine ECU (Electronic Control Unit)
ECT	Engine Coolant Temperature	Coolant Temperature, Water Temperature (THW)
EEPROM	Electrically Erasable Programmable Read Only Memory	Electrically Erasable Programmable Read Only Memory (EEPROM), Erasable Programmable Read Only Memory (EPROM)
EFE	Early Fuel Evaporation	Cold Mixture Heater (CMH), Heat Control Valve (HCV)
EGR	Exhaust Gas Recirculation	Exhaust Gas Recirculation (EGR)
EI	Electronic Ignition	TOYOTA Distributorless Ignition (TDI)
EM	Engine Modification	Engine Modification (EM)
EPROM	Erasable Programmable Read Only Memory	Programmable Read Only Memory (PROM)
EVAP	Evaporative Emission	Evaporative Emission Control (EVAP)
FC	Fan Control	–
FEEPROM	Flash Electrically Erasable Programmable Read Only Memory	–
FEPROM	Flash Erasable Programmable Read Only Memory	–
FF	Flexible Fuel	–
FP	Fuel Pump	Fuel Pump
GEN	Generator	Alternator
GND	Ground	Ground (GND)

HO2S	Heated Oxygen Sensor	Heated Oxygen Sensor (HO_2S)
IAC	Idle Air Control	Idle Speed Control (ISC)
IAT	Intake Air Temperature	Intake or Inlet Air Temperature
ICM	Ignition Control Module	-
IFI	Indirect Fuel Injection	Indirect Injection (IDL)
IFS	Inertia Fuel-Shutoff	-
ISC	Idle Speed Control	-
KS	Knock Sensor	Knock Sensor
MAF	Mass Air Flow	Air Flow Meter
MAP	Manifold Absolute Pressure	Manifold Pressure Intake Vacuum
MC	Mixture Control	Electric Bleed Air Control Valve (EBCV) Mixture Control Valve (MCV) Electric Air Control Valve (EACV)
MDP	Manifold Differential Pressure	-
MFI	Multiport Fuel Injection	Electronic Fuel Injection (EFI)
MIL	Malfunction Indicator Lamp	Check Engine Lamp
MST	Manifold Surface Temperature	-
MVZ	Manifold Vacuum Zone	-
NVRAM	Non-Volatile Random Access Memory	-
O2S	Oxygen Sensor	Oxygen Sensor, O_2 Sensor (O_2S)
OBD	On-Board Diagnostic	On-Board Diagnostic System (OBD)
OC	Oxidation Catalytic Converter	Oxidation Catalyst Convert (OC), CCo
OP	Open Loop	Open Loop
PAIR	Pulsed Secondary Air Injection	Air Suction (AS)
PCM	Powertrain Control Module	-
PNP	Park/Neutral Position	-
PROM	Programmable Read Only Memory	-
PSP	Power Steering Pressure	-
PTOX	Periodic Trap Oxidizer	Diesel Particulate Filter (DPF) Diesel Particulate Trap (DPT)
RAM	Random Access Memory	Random Access Memory (RAM)
RM	Relay Module	-
ROM	Read Only Memory	Read Only Memory (ROM)
RPM	Engine Speed	Engine Speed
SC	Supercharger	Supercharger
SCB	Supercharger Bypass	E-ABV
SFI	Sequential Multiport Fuel Injection	Electronic Fuel Injection (EFI), Sequential Injection
SPL	Smoke Puff Limiter	-
SRI	Service Reminder Indicator	-
SRT	System Readiness Test	-
ST	Scan Tool	-
TB	Throttle Body	Throttle Body
TBI	Throttle Body Fuel Injection	Single Point Injection Central Fuel Injection (Ci)
TC	Turbocharger	Turbocharger
TCC	Torque Converter Clutch	Torque Converter

TCM	Transmission Control Module	Transmission ECU, ECT ECU
TP	Throttle Position	Throttle Position
TR	Transmission Range	-
TVV	Thermal Vacuum Valve	Bimetallic Vacuum Switching Valve (BVSV) Thermostatic Vacuum Switching Valve (TVSV)
TWC	Three-Way Catalytic Converter	Three-Way Catalytic (TWC) Manifold Converter CC_{RO}
TWC+OC	Three-Way + Oxidation Catalytic Converter	CC_R + CCo
VAF	Volume Air Flow	Air Flow Meter
VR	Voltage Regulator	Voltage Regulator
VSS	Vehicle Speed Sensor	Vehicle Speed Sensor
WOT	Wide Open Throttle	Full Throttle
WU-OC	Warm Up Oxidation Catalytic Converter	-
WU-TWC	Warm Up Three-Way Catalytic Converter	-
3GR	Third Gear	-
4GR	Fourth Gear	-

PREPARATION

SUPPLEMENTAL RESTRAINT SYSTEM ... 02–1
PREPARATION ... 02–1
SEAT BELT ... 02–2
PREPARATION ... 02–2
SEAT ... 02–3
PREPARATION ... 02–3
EXTERIOR/INTERIOR TRIM ... 02–4
PREPARATION ... 02–4

REFER TO FOLLOWING REPAIR MANUALS:

Manual Name	Pub. No.
COROLLA Repair Manual	RM925E
COROLLA Repair Manual Supplement	RM939E

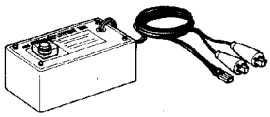
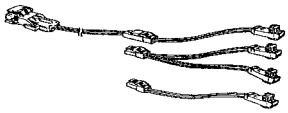
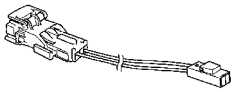
NOTE: The above pages contain only the points which differ from the above listed manuals.

SUPPLEMENTAL RESTRAINT SYSTEM

022FW-01

PREPARATION

SST

	09082-00700	SRS Airbag Deployment Tool	CURTAIN SHIELD AIR BAG ASSY LH(Jan., 2003)
	09082-00802	Airbag Deployment Wire Sub-Harness No. 8	CURTAIN SHIELD AIR BAG ASSY LH(Jan., 2003)
	(09082-10801)	Wire A	CURTAIN SHIELD AIR BAG ASSY LH(Jan., 2003)
	(09082-20801)	Wire B	CURTAIN SHIELD AIR BAG ASSY LH(Jan., 2003)

Equipment

Torque wrench	
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diam.: 360 mm (14.17 in.)	Airbag disposal
Plastic bag	Airbag disposal

SEAT BELT

022FN-01

PREPARATION

Equipment

Clip remover	
Tape	
Torque wrench	

SEAT

PREPARATION

022FO-01

Equipment

Clip remover	
Hog ring pliers	
Tape	
Torque wrench	

EXTERIOR/INTERIOR TRIM

022FP-01

PREPARATION

Equipment

Clip remover	
Tape	

SERVICE SPECIFICATIONS

STANDARD BOLT 03–1
HOW TO DETERMINE BOLT STRENGTH 03–1
SPECIFIED TORQUE FOR STANDARD BOLTS 03–2
HOW TO DETERMINE NUT STRENGTH 03–3
SUPPLEMENTAL RESTRAINT SYSTEM . . . 03–4
TORQUE SPECIFICATION 03–4
SEAT BELT 03–5
TORQUE SPECIFICATION 03–5
SEAT 03–6
TORQUE SPECIFICATION 03–6
EXTERIOR/INTERIOR TRIM 03–7
TORQUE SPECIFICATION 03–7

REFER TO FOLLOWING REPAIR MANUALS:

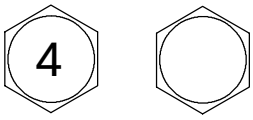
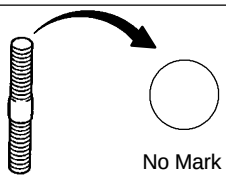
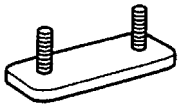
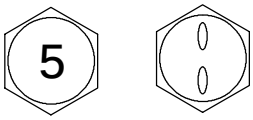
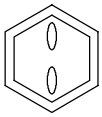
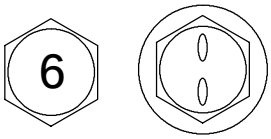
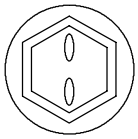
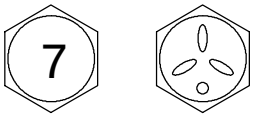
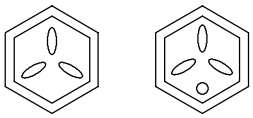
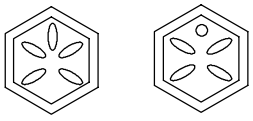
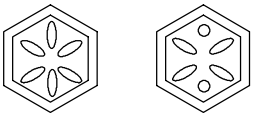
Manual Name	Pub. No.
COROLLA Repair Manual	RM925E
COROLLA Repair Manual Supplement	RM939E

NOTE: The above pages contain only the points which differ from the above listed manuals.

STANDARD BOLT

HOW TO DETERMINE BOLT STRENGTH

030LK-03

Bolt Type				Class
Hexagon Head Bolt		Stud Bolt	Weld Bolt	
Normal Recess Bolt	Deep Recess Bolt			
 No Mark	 No Mark	 No Mark		4T
				5T
 w/ Washer	 w/ Washer			6T
				7T
				8T
				9T
				10T
				11T

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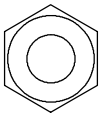
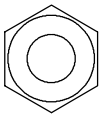
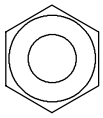
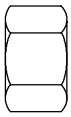
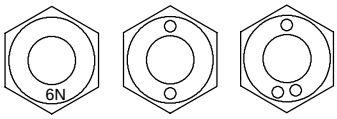
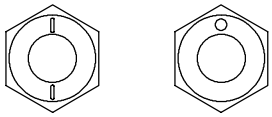
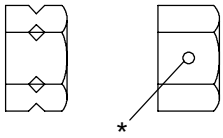
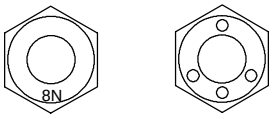
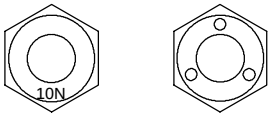
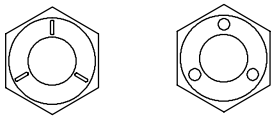
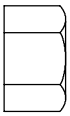
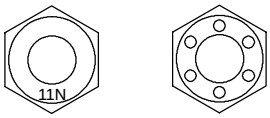
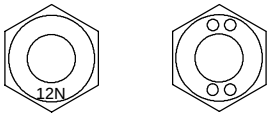
030LL-03

SPECIFIED TORQUE FOR STANDARD BOLTS

Class	Diameter mm	Pitch mm	Specified torque					
			Hexagon head bolt			Hexagon flange bolt		
			N·m	kgf·cm	ft·lbf	N·m	kgf·cm	ft·lbf
4T	6	1	5	55	48 in.·lbf	6	60	52 in.·lbf
	8	1.25	12.5	130	9	14	145	10
	10	1.25	26	260	19	29	290	21
	12	1.25	47	480	35	53	540	39
	14	1.5	74	760	55	84	850	61
	16	1.5	115	1,150	83	-	-	-
5T	6	1	6.5	65	56 in.·lbf	7.5	75	65 in.·lbf
	8	1.25	15.5	160	12	17.5	175	13
	10	1.25	32	330	24	36	360	26
	12	1.25	59	600	43	65	670	48
	14	1.5	91	930	67	100	1,050	76
	16	1.5	140	1,400	101	-	-	-
6T	6	1	8	80	69 in.·lbf	9	90	78 in.·lbf
	8	1.25	19	195	14	21	210	15
	10	1.25	39	400	29	44	440	32
	12	1.25	71	730	53	80	810	59
	14	1.5	110	1,100	80	125	1,250	90
	16	1.5	170	1,750	127	-	-	-
7T	6	1	10.5	110	8	12	120	9
	8	1.25	25	260	19	28	290	21
	10	1.25	52	530	38	58	590	43
	12	1.25	95	970	70	105	1,050	76
	14	1.5	145	1,500	108	165	1,700	123
	16	1.5	230	2,300	166	-	-	-
8T	8	1.25	29	300	22	33	330	24
	10	1.25	61	620	45	68	690	50
	12	1.25	110	1,100	80	120	1,250	90
9T	8	1.25	34	340	25	37	380	27
	10	1.25	70	710	51	78	790	57
	12	1.25	125	1,300	94	140	1,450	105
10T	8	1.25	38	390	28	42	430	31
	10	1.25	78	800	58	88	890	64
	12	1.25	140	1,450	105	155	1,600	116
11T	8	1.25	42	430	31	47	480	35
	10	1.25	87	890	64	97	990	72
	12	1.25	155	1,600	116	175	1,800	130

030LM-03

HOW TO DETERMINE NUT STRENGTH

Nut Type			Class
Present Standard Hexagon Nut	Old Standard Hexagon Nut		
	Cold Forging Nut	Cutting Processed Nut	
 No Mark			4N
 No Mark (w/ Washer)	 No Mark (w/ Washer)	 No Mark	5N (4T)
 6N			6N
		 *	7N (5T)
 8N			8N
 10N		 No Mark	10N (7T)
 11N			11N
 12N			12N

*: Nut with 1 or more marks on one side surface of the nut.

B06432

HINT:

Use the nut with the same number of the nut strength classification or the greater than the bolt strength classification number when tightening parts with a bolt and nut.

Example: Bolt = 4T

Nut = 4N or more

SUPPLEMENTAL RESTRAINT SYSTEM

TORQUE SPECIFICATION

031DI-01

Part Tightened	N·m	kgf·cm	ft·lbf
Curtain shield airbag assy x Body	9.8 3.5	100 36	87 in.·lbf 31 in.·lbf
Airbag sensor rear LH x Body	9.0	92	80 in.·lbf

SEAT BELT

TORQUE SPECIFICATION

031DC-01

Part Tightened	N·m	kgf·cm	ft·lbf
REAR SEAT BELT			
Cild restraint seat anchor bracket sub-assy x Body	31	316	23
Rear seat belt assy inner x Body	42	428	31
Rear seat belt assy outer x Body	42	428	31
Rear seat belt assy outer center x Body	42	428	31
Rear seat belt assy outer center anchor x Body	42	428	31
Rear seat belt assy outer floor anchor x Body	42	428	31
Rear seat inner w/ center belt assy LH x Body	42	428	31

SEAT

TORQUE SPECIFICATION

031DD-01

Part Tightened	N·m	kgf·cm	ft·lbf
Rear seatback lock assy x Rear seatback frame sub-assy	30	306	22
Rear seatback assy x Hinge	18	185	13

EXTERIOR/INTERIOR TRIM

TORQUE SPECIFICATION

031DE-01

Part Tightened	N·m	kgf·cm	ft·lbf
FRONT BUMPER COVER			
Front bumper reinforcement x Body	52	530	38
ROOF HEADLINING			
Front seat outer belt x Body	42	428	31
Rear seat outer belt x Body Wagon Models:	42	428	31

DIAGNOSTICS

SUPPLEMENTAL RESTRAINT SYSTEM
(Jan., 2003) 05-1
HOW TO PROCEED WITH TROUBLESHOOTING 05-1
CUSTOMER PROBLEM ANALYSIS CHECK ... 05-3
PRE-CHECK 05-4
DIAGNOSTIC TROUBLE CODE CHART 05-10
LOCATION 05-13
TERMINALS OF ECU 05-14
PROBLEM SYMPTOMS TABLE 05-16
B0100/13 05-17
B0101/14 05-21
B0102/11 05-25
B0103/12 05-29
B0110/43 05-33
B0111/44 05-36
B0112/41 05-39
B0113/42 05-42
B0115/47 05-45
B0116/48 05-48
B0117/45 05-51
B0118/46 05-54
B0130/63 05-57
B0131/64 05-60
B0132/61 05-63
B0133/62 05-66
B0135/73 05-69
B0136/74 05-72
B0137/71 05-75
B0138/72 05-78
B1100/31 05-81
B1140/32 05-84
B1141/33 05-91
B1154/38 05-98
B1155/39 05-102
B1156/15 05-106
B1158/16 05-111
B1160/83 05-116
B1161/84 05-119
B1162/81 05-122
B1163/82 05-125
B1165/87 05-128
B1166/88 05-131
B1167/85 05-134
B1168/86 05-137
SOURCE VOLTAGE DROP 05-140
SRS WARNING LIGHT CIRCUIT MALFUNCTION (ALWAYS LIGHT UP, WHEN IGNITION SWITCH IS LOCK POSITION.) 05-143
SRS WARNING LIGHT CIRCUIT MALFUNCTION (DOES NOT LIGHT UP, WHEN IGNITION SWITCH IS TURNED TO ACC OR ON) 05-146

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)

HOW TO PROCEED WITH TROUBLESHOOTING

050YF-16

1	VEHICLE BROUGHT TO WORKSHOP

2	CUSTOMER PROBLEM ANALYSIS (See page 05-3)

3	DTC CHECK (Present and Past DTC) (See page 05-4)

- DTC IS OUTPUT: Go to step 4
- DTC IS NOT OUTPUT: Go to step 11

4	THE DTCs CHART (See page 05-10)

5	CIRCUIT INSPECTION (See page 05-17 to 05-146)

- MALFUNCTION CODE IS OUTPUT: Go to step 6
- NORMAL CODE IS OUTPUT: Go to step 11

6	IDENTIFICATION OF PROBLEM

7	REPAIR

8	CLEAR THE DTCs (Present and Past DTC) (See page 05-4)

9	DTC CHECK (See page 05-4)

- DTC CODE IS NOT OUTPUT: Go to step 10
- DTC CODE IS OUTPUT: Go to step 4

10	SYMPTOM SIMULATION (See Pub. No. RM925E, page 01-30)

WARNING LIGHT REMAINS OFF: Go to step 11

WARNING LIGHT IS ON: Go to step 4

11	CONFIRMATION TEST

END

HINT:
Step 3, 5, 8, and 9:
Diagnosis steps where the hand-held tester can be used.

050WX-14

CUSTOMER PROBLEM ANALYSIS CHECK

Supplemental Restraint System Check Sheet	Inspector's Name

Customer's Name		VIN	
		Production Date	
		Licence No.	
Date Vehicle Brought In		Odometer Reading	km Miles

Date Problem Occurred	
Weather	☐ Fine ☐ Cloudy ☐ Rainy ☐ Snowy ☐ Other
Temperature	Approx.

Vehicle Operation	☐ Starting ☐ Idling ☐ Driving [☐ Constant speed ☐ Acceleration ☐ Deceleration ☐ Other]
Road Condition	
Details of Problem	

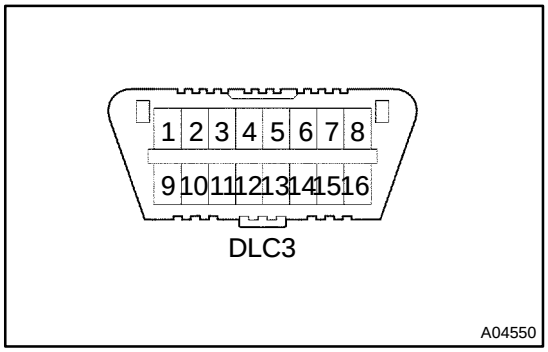
Vehicle Inspection, Repair History Prior to Occurrence of Malfunction (Including Supplemental Restraint System)	

Diagnosis System Inspection

SRS Warning Light Inspection	1st Time	☐ Remains ON ☐ Sometimes Comes on ☐ Does Not Comes on
	2nd Time	☐ Remains ON ☐ Sometimes Comes on ☐ Does Not Comes on
DTC Inspection	1st Time	☐ Normal Code ☐ Malfunction Code [Code.]
	2nd Time	☐ Normal Code ☐ Malfunction Code [Code.]

H40122

05BMJ-01



PRE-CHECK

1. DIAGNOSIS SYSTEM

(a) Check the DLC3.

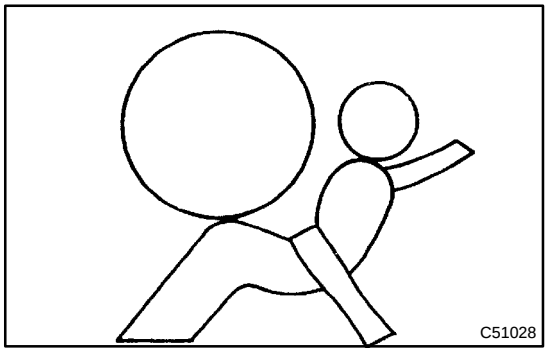
(1) The vehicle's ECM conforms to ISO 9141-2 for communication protocol. The terminal arrangement of the DLC3 complies with ISO 15031-3 and meets the ISO 9141-2 format.

Terminal No.	Connection/Voltage or Resistance	Condition
7	Bus + Line/Pulse generation	During Transmission
4	Chassis Ground ⇔ Body Ground/1 Ω or less	Always
16	Battery Positive ⇔ Body Ground/9 - 14 V	Always

HINT:

If the display shows UNABLE TO CONNECT TO VEHICLE when you connect the cable of the hand-held tester to the DLC3, turn the ignition switch to the ON position and operate the hand-held tester, there is a problem either on the vehicle side or tool side.

- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself, so consult the Service Department listed in the tool's instruction manual.



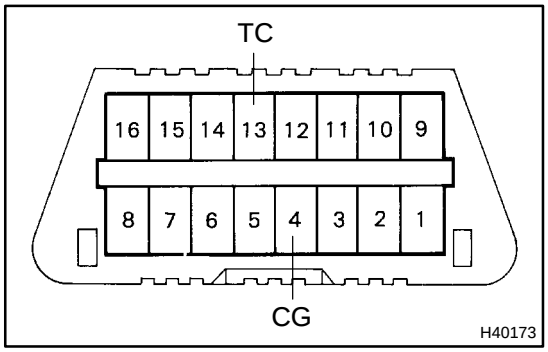
2. SRS WARNING LIGHT CHECK

(a) Turn the ignition switch to the ON position, and check that the SRS warning light comes on.

(b) Check that the SRS warning light goes off after approx. 6 seconds.

HINT:

- When the ignition switch is ON position and the SRS warning light remains on or flashes, the airbag sensor assy center detects a malfunction code.
- After approx. 6 seconds, if the SRS warning light sometimes comes on even when the ignition switch is OFF, a short circuit in the SRS warning light circuit is suspected. Proceed to "SRS warning light circuit malfunction" on page 05-143 and 05-146.



3. DTC CHECK (USING SST CHECK WIRE)

(a) Output the DTCs (Present trouble code).

(1) Turn the ignition switch to the ON position, and wait for approx. 60 seconds.

(2) Using SST, connect the TC and CG of the DLC3.

SST 09843-18040

NOTICE:

Pay attention to the terminal connecting position to avoid a malfunction.

(b) Output the DTCs (Past trouble code).

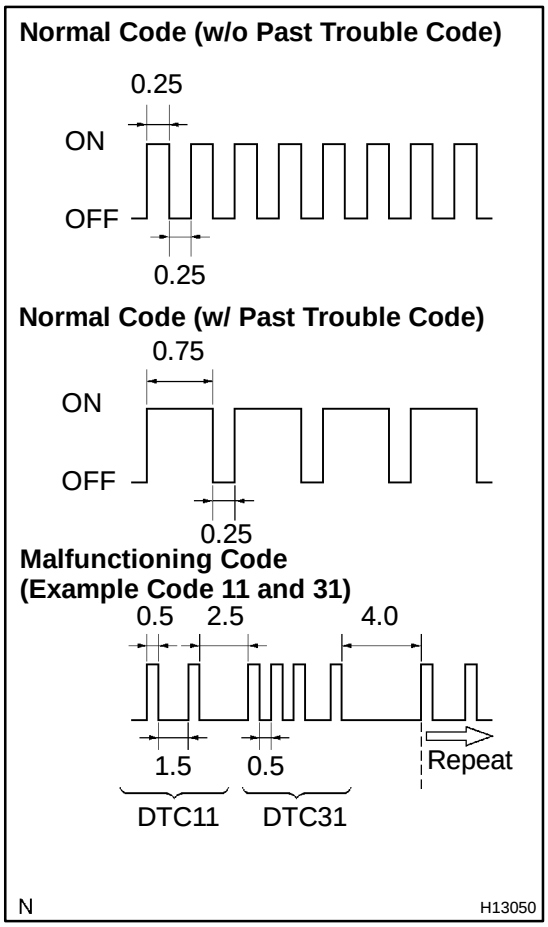
(1) Using SST, connect the TC and CG of the DLC3.

SST 09843-18040

(2) Turn the ignition switch to the ON position, and wait for approx. 60 seconds.

NOTICE:

Pay attention to the terminal connecting position to avoid a malfunction.



(c) Read the DTCs .

(1) Read the DTC by counting the blinking times. For example, the blinking patterns for normal code, code 11 and code 31 are shown in the illustration.

- Normal code indication (w/o past trouble code)
  The light blinks twice per second.
- Normal code indication (w/ past trouble code)
  When the past trouble code is stored in the airbag sensor assy center, blinking is only once a second.
- Malfunction code indication
  The first blinking indicates the first DTC. Second blinking occurs after 1.5-second of pause.

If there are 2 or more codes, there will be a 2.5-second pause between each code. After all codes are shown, there will be a 4.0-second pause, and they will all be repeated.

HINT:

- If 2 or more malfunctions are found, the indication starts from the smaller numbered code.
- If DTCs are indicated without a connection of the terminals, proceed to the "TC terminal circuit" on Pub. No. RM925E, page 05-1070.

(d) Clear the DTCs .

(1) When the ignition switch is turned off, the DTCs are cleared.

HINT:

Depending on the DTC, the code might not be cleared by turning off the ignition switch. In this case, proceed to the next step.

(2) Using SST, connect the TC and CG of the DLC3, and turn the ignition switch to the ON position.

SST 09843-18040

(3) Disconnect the TC of the DLC3 within 3.0 to 10.0 seconds after the DTCs are output, and check if the SRS warning light comes on after 3.0 seconds.

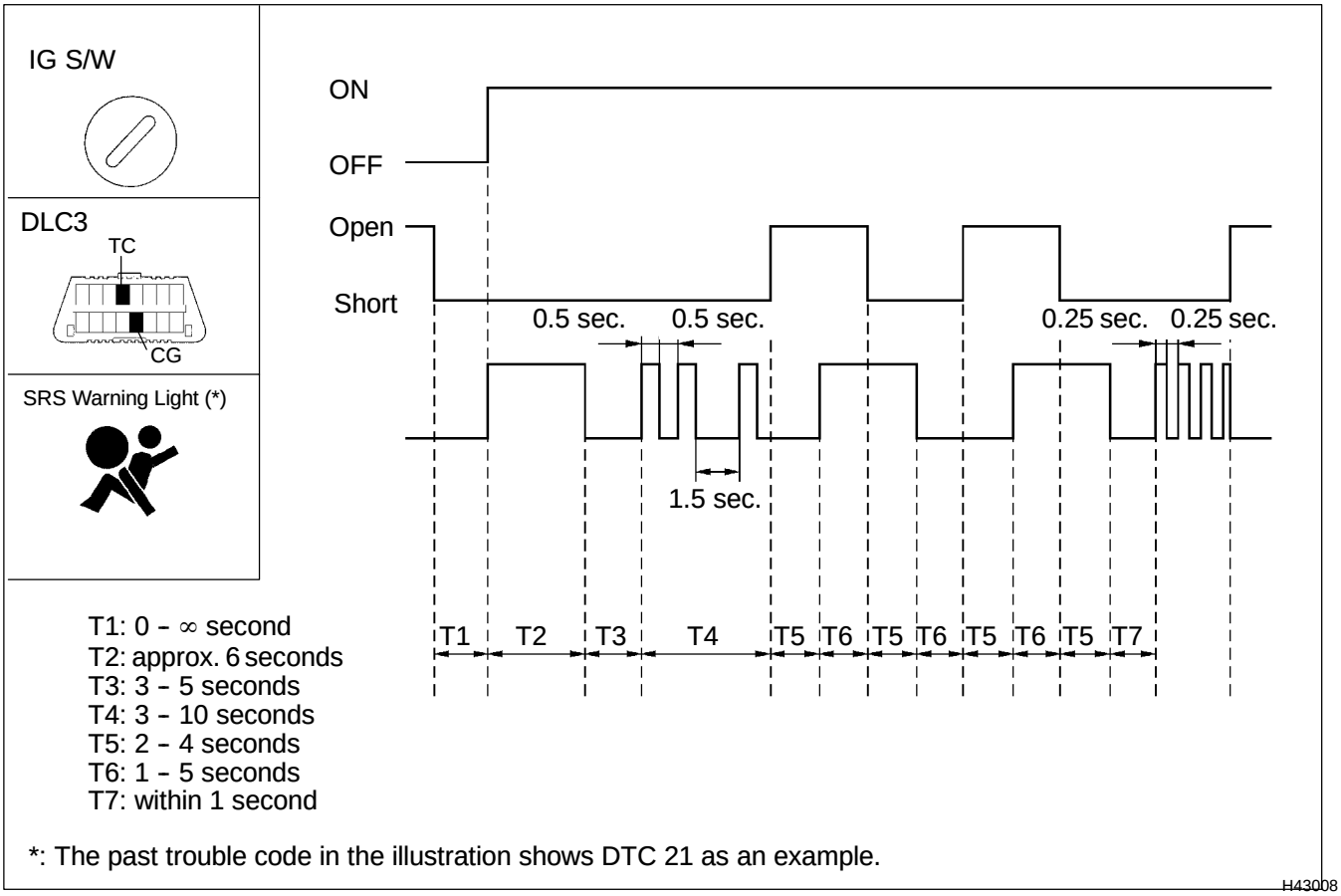
(4) Within 2.0 to 4.0 seconds after the SRS warning light comes on, connect the TC and CG of the DLC3.

(5) The SRS warning light goes off within 2.0 to 4.0 seconds after connecting the TC and CG of the DLC3. Then, disconnect the TC of the DLC3 within 2.0 to 4.0 seconds after the SRS warning light goes off.

(6) The SRS warning light comes on again within 2.0 to 4.0 seconds after disconnecting the TC of the DLC3. Then, within 2.0 to 4.0 seconds after the lighting, connect the TC and CG of the DLC3.

(7) Check if the SRS warning light goes off after 2.0 to 4.0 seconds after connecting the TC and CG of the DLC3, and the normal code is output within 1.0 second after the SRS warning light goes off.

If the DTCs are not cleared, repeat the above procedure until the codes are cleared.



4. DTC CHECK (USING HAND–HELD TESTER)

(a) Checking DTCs.
  (1) Connect the hand–held tester to the DLC3.
  (2) Turn the ignition switch to the ON position.
  (3) Read the DTCs by following the prompts on the tester screen.

HINT:
Refer to the hand–held tester operation's manual for further details.

(b) Clearing DTCs.
  (1) Connect the hand–held tester to the DLC3.
  (2) Turn the ignition switch to the ON position.
  (3) Clear the DTCs by following the prompts on the tester screen.

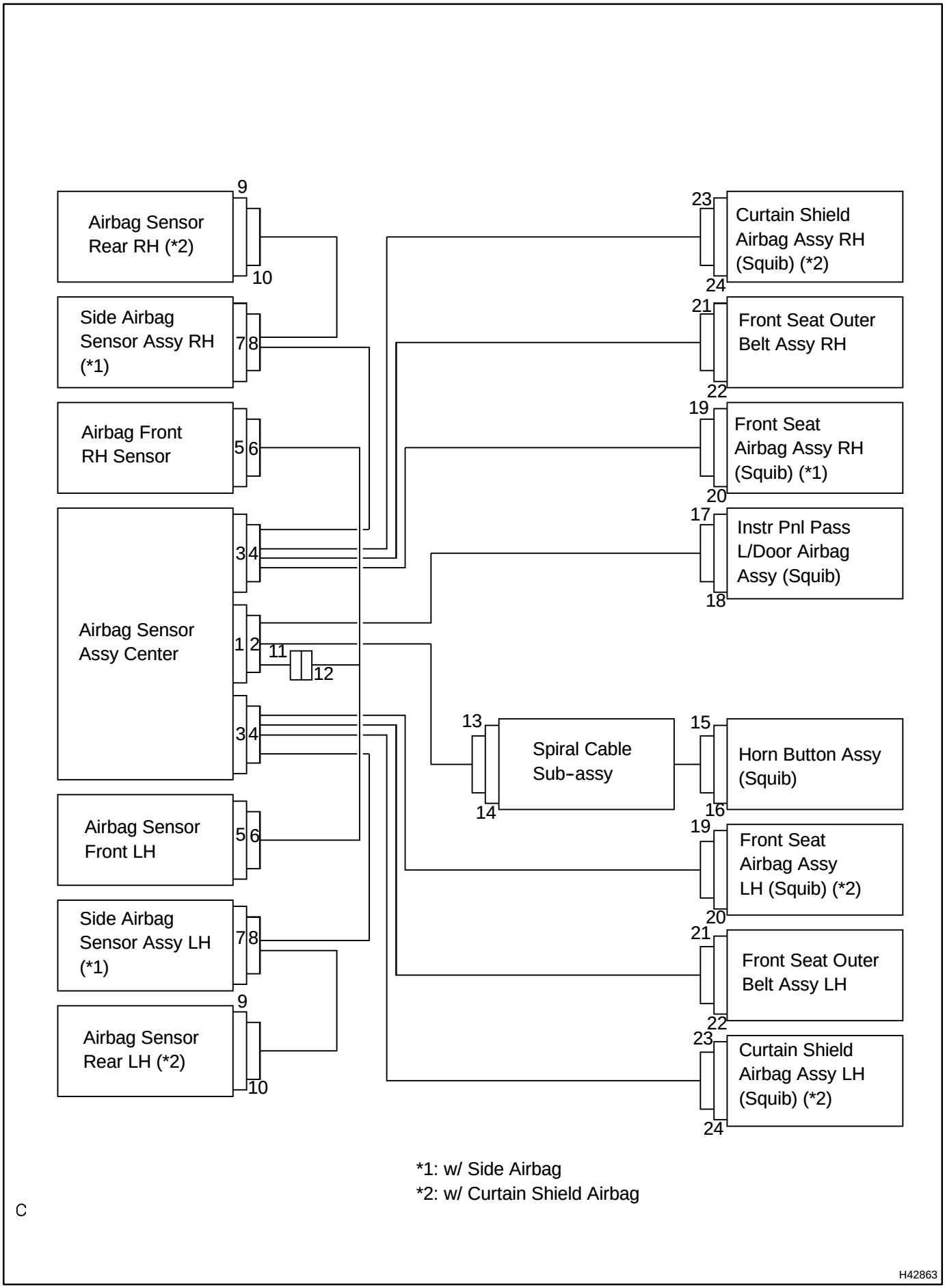
HINT:
Refer to the hand–held tester operation's manual for further details.

5. RELEASE METHOD OF AIRBAG ACTIVATION PREVENTION MECHANISM

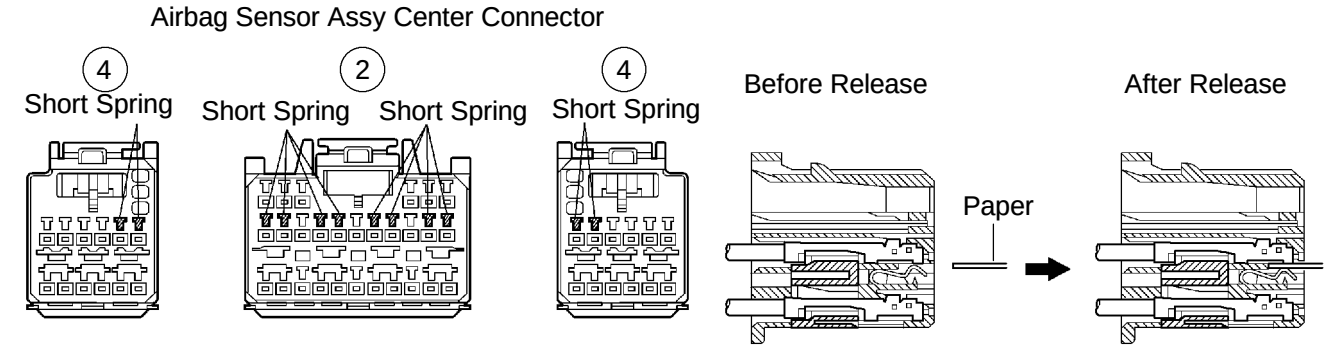
(a) The airbag activation prevention mechanism is built in the connector for the squib circuit of the SRS. As explained in the troubleshooting later, insert a paper with the same thickness as the male terminal between the terminal and the short spring to release it (Refer to illustrations on the next 2 pages).

CAUTION:
Never release the airbag activation prevention mechanism on the squib connector.

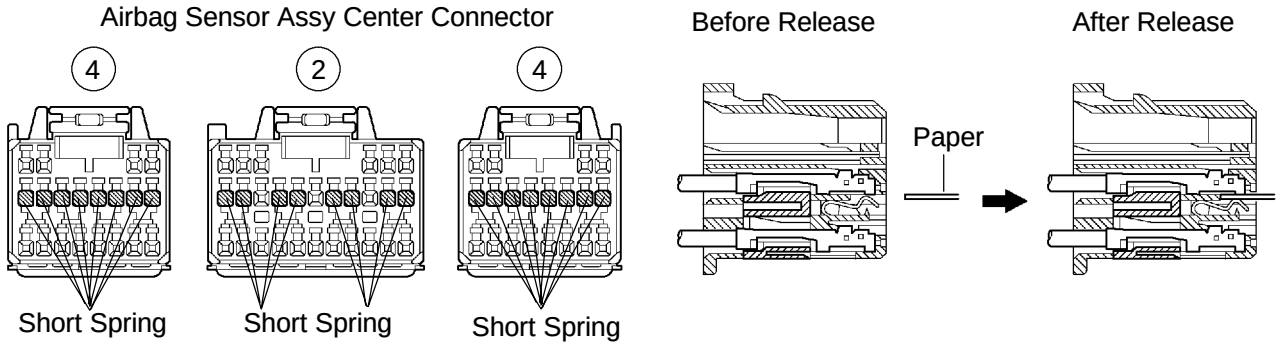
NOTICE:
- **Do not release the airbag activation prevention mechanism unless specially directed by the troubleshooting procedure.**
- **To prevent the terminal and the short spring from damage, always use a paper with the same thickness as the male terminals.**

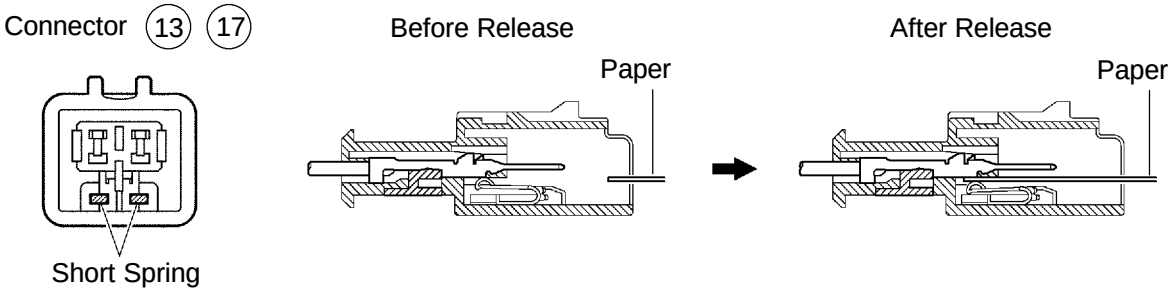

Airbag Sensor Rear RH (*2)
9
10
Side Airbag Sensor Assy RH (*1)
7 8
Airbag Front RH Sensor
5 6
Airbag Sensor Assy Center
3 4
1 2
11
12
3 4
Airbag Sensor Front LH
5 6
Side Airbag Sensor Assy LH (*1)
7 8
Airbag Sensor Rear LH (*2)
9
10
13
Spiral Cable Sub-assy
14
23
Curtain Shield Airbag Assy RH (Squib) (*2)
24
21
Front Seat Outer Belt Assy RH
22
19
Front Seat Airbag Assy RH (Squib) (*1)
20
17
Instr Pnl Pass L/Door Airbag Assy (Squib)
18
15
Horn Button Assy (Squib)
16
19
Front Seat Airbag Assy LH (Squib) (*2)
20
21
Front Seat Outer Belt Assy LH
22
23
Curtain Shield Airbag Assy LH (Squib) (*2)
24
*1: w/ Side Airbag
*2: w/ Curtain Shield Airbag
C
H42863

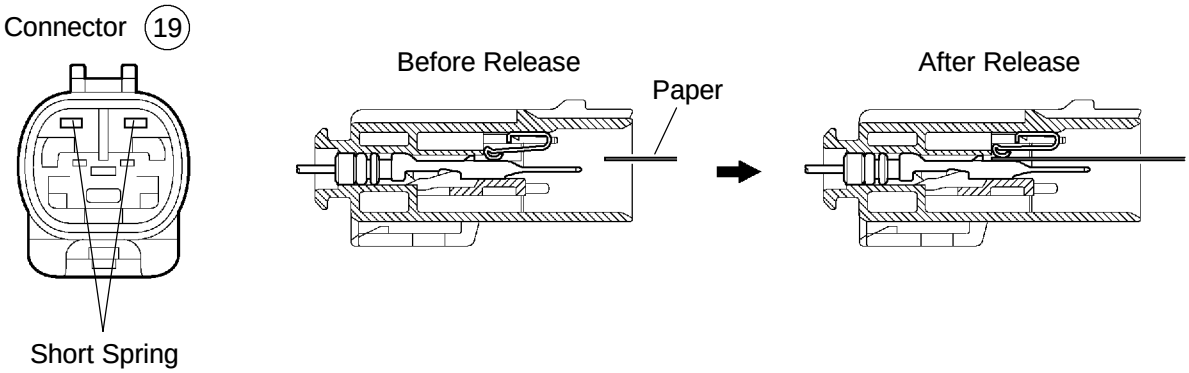
w/o Side Airbag:



w/ Side Airbag:







H42862

056X4-03

DIAGNOSTIC TROUBLE CODE CHART

If a malfunction code is displayed during the DTC check, check the circuit listed for the code in the table below (Proceed to the page given for that circuit).

DTC No. (See page)	Detection Item	Trouble Area	SRS Warning Light
B0100/13 (05-17)	$ Short in D squib circuit	$ Horn button assy (squib) $ Spiral cable sub-assy $ Airbag sensor assy center $ Instrument panel wire	ON
B0101/14 (05-21)	$ Open in D squib circuit	$ Horn button assy (squib) $ Spiral cable sub-assy $ Airbag sensor assy center $ Instrument panel wire	ON
B0102/11 (05-25)	$ Short in D squib circuit (to ground)	$ Horn button assy (squib) $ Spiral cable sub-assy $ Airbag sensor assy center $ Instrument panel wire	ON
B0103/12 (05-29)	$ Short in D squib circuit (to B+)	$ Horn button assy (squib) $ Spiral cable sub-assy $ Airbag sensor assy center $ Instrument panel wire	ON
B0105/53 (L)	$ Short in P squib circuit	$ Instrument panel passenger airbag assy (squib) $ Airbag sensor assy center $ Instrument panel wire	ON
B0106/54 (L)	$ Open in P squib circuit	$ Instrument panel passenger airbag assy (squib) $ Airbag sensor assy center $ Instrument panel wire	ON
B0107/51 (L)	$ Short in P squib circuit (to ground)	$ Instrument panel passenger airbag assy (squib) $ Airbag sensor assy center $ Instrument panel wire	ON
B0108/52 (L)	$ Short in P squib circuit (to B+)	$ Instrument panel passenger airbag assy (squib) $ Airbag sensor assy center $ Instrument panel wire	ON
B0110/43 (*1) (05-33)	$ Short in side squib (RH) circuit	$ Separate type front seat back assy (squib, RH) $ Airbag sensor assy center $ Floor wire	Blink
B0111/44 (*1) (05-36)	$ Open in side squib (RH) circuit	$ Separate type front seat back assy (squib, RH) $ Airbag sensor assy center $ Floor wire	Blink
B0112/41 (*1) (05-39)	$ Short in side squib (RH) circuit (to ground)	$ Separate type front seat back assy (squib, RH) $ Airbag sensor assy center $ Floor wire	Blink
B0113/42 (*1) (05-42)	$ Short in side squib (RH) circuit (to B+)	$ Separate type front seat back assy (squib, RH) $ Airbag sensor assy center $ Floor wire	Blink
B0115/47 (*1) (05-45)	$ Short in side squib (LH) circuit	$ Separate type front seat back assy (squib, LH) $ Airbag sensor assy center $ Floor wire	Blink
B0116/48 (*1) (05-48)	$ Open in side squib (LH) circuit	$ Separate type front seat back assy (squib, LH) $ Airbag sensor assy center $ Floor wire	Blink
B0117/45 (*1) (05-51)	$ Short in side squib (LH) circuit (to ground)	$ Separate type front seat back assy (squib, LH) $ Airbag sensor assy center $ Floor wire	Blink
B0118/46 (*1) (05-54)	$ Short in side squib (LH) circuit (to B+)	$ Separate type front seat back assy (squib, LH) $ Airbag sensor assy center $ Floor wire	Blink

B0130/63 (05-57)	$ Short in P/T squib (RH) circuit	$ Front seat outer belt assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0131/64 (05-60)	$ Open in P/T squib (RH) circuit	$ Front seat outer belt assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0132/61 (05-63)	$ Short in P/T squib (RH) circuit (to ground)	$ Front seat outer belt assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0133/62 (05-66)	$ Short in P/T squib (RH) circuit (to B+)	$ Front seat outer belt assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0135/73 (05-69)	$ Short in P/T squib (LH) circuit	$ Front seat outer belt assy LH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0136/74 (05-72)	$ Open in P/T squib (LH) circuit	$ Front seat outer belt assy LH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0137/71 (05-75)	$ Short in P/T squib (LH) circuit (to ground)	$ Front seat outer belt assy LH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B0138/72 (05-78)	$ Short in P/T squib (LH) circuit (to B+)	$ Front seat outer belt assy LH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B1100/31 (05-81)	$ Airbag sensor assy center malfunction $ Half connection detection malfunction	$ Airbag sensor assy center $ Airbag sensor assy center connector	ON
B1140/32 (*1) (05-84)	$ Side airbag sensor assy (RH) malfunction	$ Side airbag sensor assy RH $ Airbag sensor rear RH (w/ Curtain shield airbag) $ Airbag sensor assy center $ Floor wire	Blink
B1141/33 (*1) (05-91)	$ Side airbag sensor assy (LH) malfunction	$ Side airbag sensor assy LH $ Airbag sensor rear LH (w/ Curtain shield airbag) $ Airbag sensor assy center $ Floor wire	Blink
B1154/38 (*2) (05-98)	$ Airbag sensor rear (RH) malfunction	$ Airbag sensor rear RH $ Side airbag sensor assy RH (w/ Curtain shield airbag) $ Airbag sensor assy center $ Floor wire	Blink
B1155/39 (*2) (05-102)	$ Airbag sensor rear (LH) malfunction	$ Airbag sensor rear RH $ Side airbag sensor assy LH (w/ Curtain shield airbag) $ Airbag sensor assy center $ Floor wire	Blink
B1156/B1157/15 (05-106)	$ Front airbag sensor (RH) malfunction	$ Airbag front RH sensor $ Airbag sensor assy center $ Instrument panel wire $ Engine room main wire	ON
B1158/B1159/16 (05-111)	$ Front airbag sensor (LH) malfunction	$ Airbag sensor front LH $ Airbag sensor assy center $ Instrument panel wire $ Engine room main wire	ON
B1160/83 (*2) (05-116)	$ Short in curtain shield squib (RH) circuit	$ Curtain shield airbag assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B1161/84 (*2) (05-119)	$ Open in curtain shield squib (RH) circuit	$ Curtain shield airbag assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink
B1162/81 (*2) (05-122)	$ Short in curtain shield squib (RH) circuit (to ground)	$ Curtain shield airbag assy RH (squib) $ Airbag sensor assy center $ Floor wire	Blink

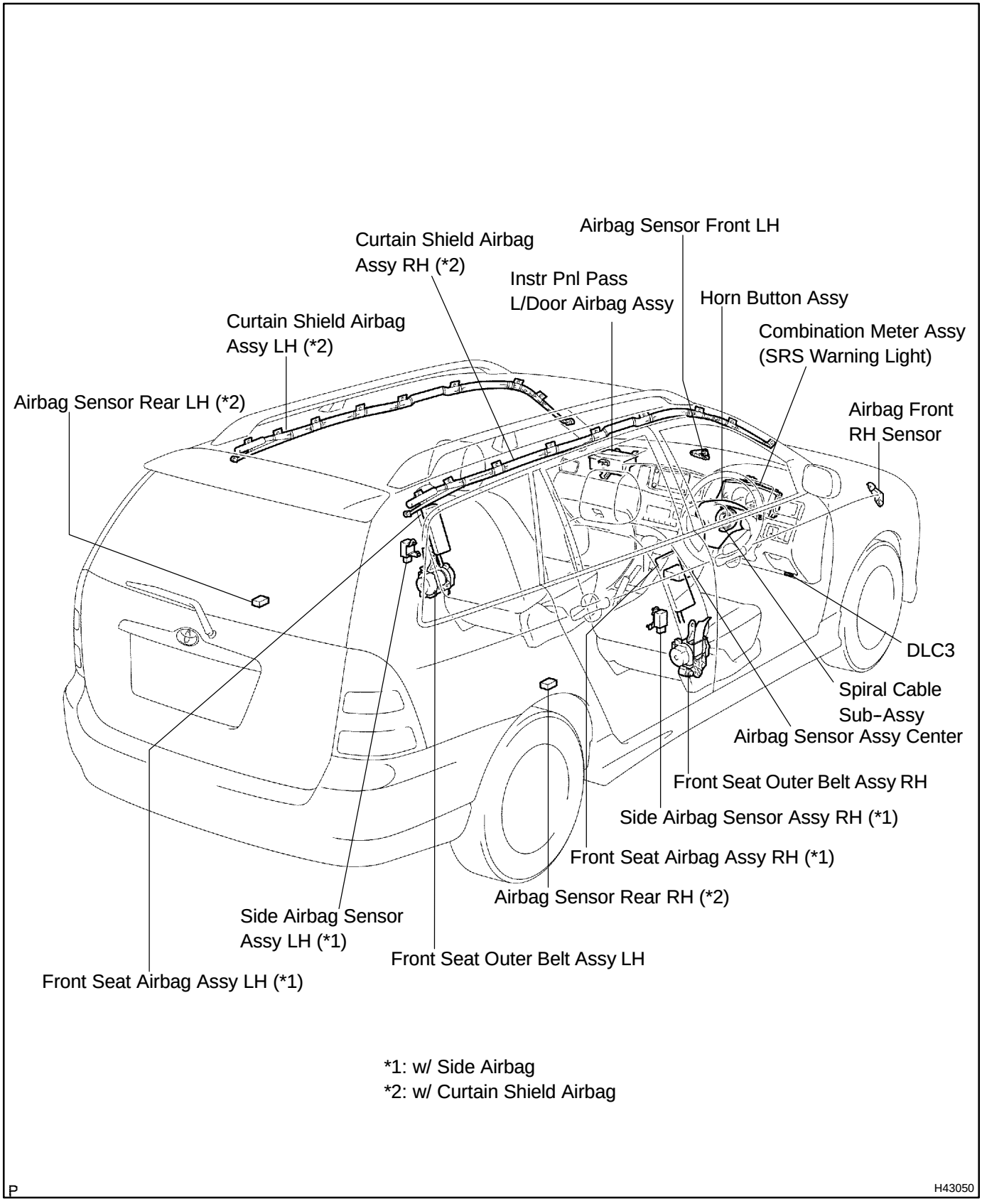
B1163/82 (*2) (05-125)	S Short in curtain shield squib (RH) circuit (to B+)	S Curtain shield airbag assy RH (squib) S Airbag sensor assy center S Floor wire	Blink
B1165/87 (*2) (05-128)	S Short in curtain shield squib (LH) circuit	S Curtain shield airbag assy LH (squib) S Airbag sensor assy center S Floor wire	Blink
B1166/88 (*2) (05-131)	S Open in curtain shield squib (LH) circuit	S Curtain shield airbag assy LH (squib) S Airbag sensor assy center S Floor wire	Blink
B1167/85 (*2) (05-134)	S Short in curtain shield squib (LH) circuit (to ground)	S Curtain shield airbag assy LH (squib) S Airbag sensor assy center S Floor wire	Blink
B1168/86 (*2) (05-137)	S Short in curtain shield squib (LH) circuit (to B+)	S Curtain shield airbag assy LH (squib) S Airbag sensor assy center S Floor wire	Blink
Normal (05-140)	S System normal	-	OFF
	S Voltage source drop	S Battery S Airbag sensor assy center	ON

*1: w/ Side Airbag
*2: w/ Curtain Shield Airbag
L: Refer to COROLLA Repair Manual (Pub. No. RM925E).
HINT:

- When the SRS warning light remains ON and the DTC is the normal code, a voltage source drop is suspected.
  This malfunction is not stored in memory by the airbag sensor assy center. If the power source voltage returns to normal, the SRS warning light will automatically goes off.
- If a code is not listed on the displayed chart, the airbag sensor assy center may be failed.
- In the case of any malfunction concerning any open circuit, short to ground, or short to B+ due to any squib, another malfunction code may not be detected. In this case, repair the malfunction currently indicated and then perform malfunction diagnosis again. Another malfunction code may then be detected.

050X1-19

LOCATION

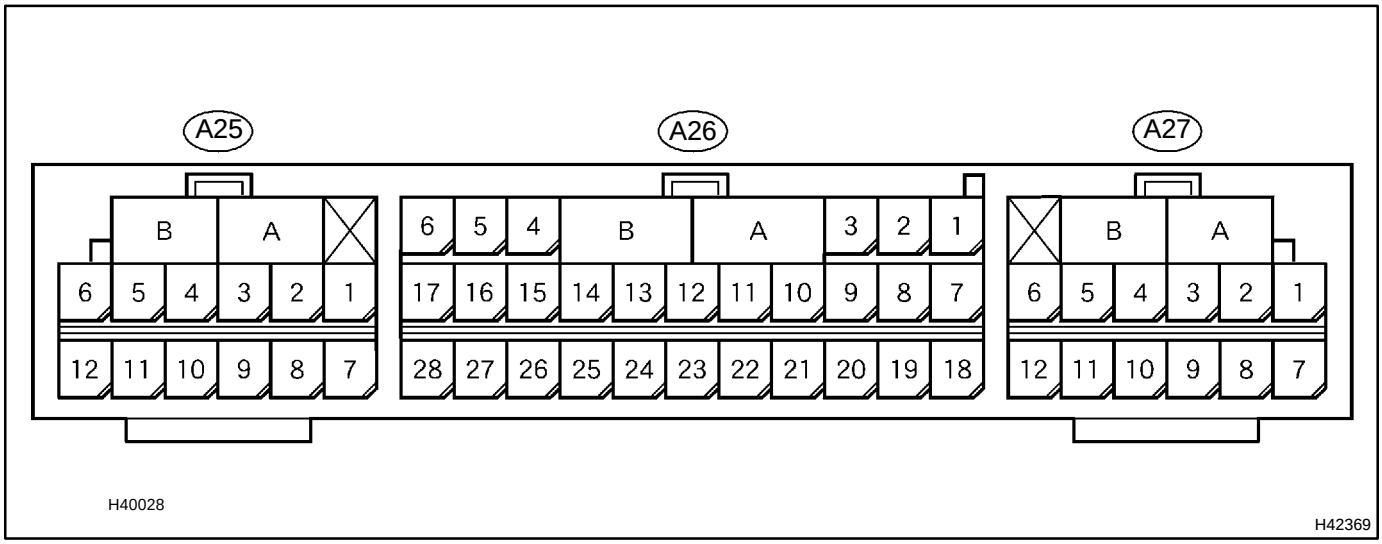


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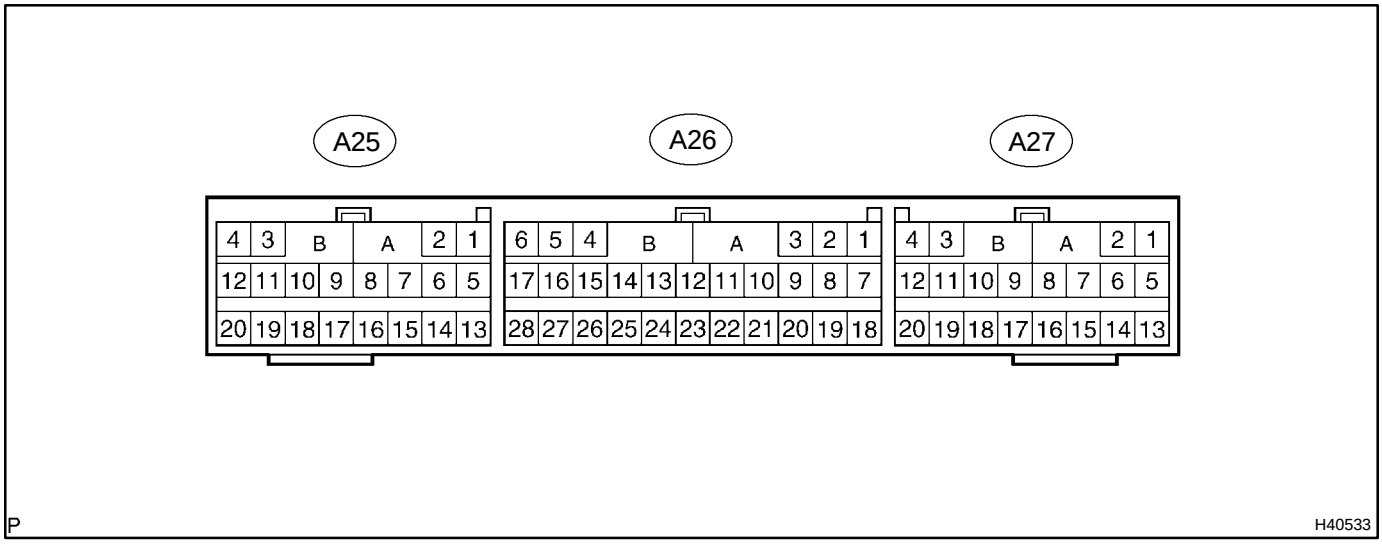
TERMINALS OF ECU

w/o Side Airbag:



Terminal No.	Symbol	Terminal Name
A	-	Electrical Connector Check Mechanism
B	-	Electrical Connector Check Mechanism
A26-3	LA	SRS Warning Light
A26-5	IG2	Power Source (IG2 Fuse)
A26-9	+SR	Airbag Front RH Sensor
A26-10	P+	Squib (Passenger)
A26-11	P-	Squib (Passenger)
A26-12	SIL	Diagnosis
A26-13	D-	Squib (Driver)
A26-14	D+	Squib (Driver)
A26-15	+SL	Airbag Sensor Front LH
A26-19	TC	Diagnosis
A26-20	-SR	Airbag Front RH Sensor
A26-23	GSW2	ECM
A26-26	-SL	Front Airbag Sensor LH
A26-27	E1	Ground
A26-28	E2	Ground
A25-1	PL-	Squib (Seat Belt Pretensioner, LH)
A25-2	PL+	Squib (Seat Belt Pretensioner, LH)
A27-5	PR+	Squib (Seat Belt Pretensioner, RH)
A27-6	PR-	Squib (Seat Belt Pretensioner, RH)

w/ Side Airbag:



No.	Symbol	Terminal Name
A	-	Electrical Connector Check Mechanism
B	-	Electrical Connector Check Mechanism
A26-3	LA	SRS Warning Light
A26-5	IG2	Power Source (IG2 Fuse)
A26-9	+SR	Airbag Front RH Sensor
A26-10	P+	Squib (Passenger)
A26-11	P-	Squib (Passenger)
A26-12	SIL	Diagnosis
A26-13	D-	Squib (Driver)
A26-14	D+	Squib (Driver)
A26-15	+SL	Airbag Sensor Front LH
A26-19	TC	Diagnosis
A26-20	-SR	Airbag Front RH Sensor
A26-23	GSW2	ECM
A26-26	-SL	Airbag Sensor Front LH
A26-27	E1	Ground
A26-28	E2	Ground
A25-7	PL-	Squib (Seat Belt Pretensioner, LH)
A25-8	PL+	Squib (Seat Belt Pretensioner, LH)
A25-9 (*1)	ICL+	Squib (Curtain Shield Airbag, LH)
A25-10 (*1)	ICL-	Squib (Curtain Shield Airbag, LH)
A25-11	SFL-	Squib (Side, LH)
A25-12	SFL+	Squib (Side, LH)
A25-16	BBL+	Side Airbag Sensor Assy LH
A25-18	BBL-	Side Airbag Sensor Assy LH
A27-5	SFR+	Squib (Side, RH)
A27-6	SFR-	Squib (Side, RH)
A27-7 (*1)	ICR-	Squib (Curtain Shield Airbag, RH)
A27-8 (*1)	ICR+	Squib (Curtain Shield Airbag, RH)
A27-9	PR+	Squib (Seat Belt Pretensioner, RH)
A27-10	PR-	Squib (Seat Belt Pretensioner, RH)
A27-15	BBR-	Side Airbag Sensor Assy RH
A27-17	BBR+	Side Airbag Sensor Assy RH

*1: w/ Curtain Shield Airbag

050YH-17

PROBLEM SYMPTOMS TABLE

HINT:

Proceed the troubleshooting for each circuit in the below table.

Symptom	Suspect Area	See page
S When the ignition switch is ON, the SRS warning light sometimes come on after approx. 6 seconds.	S SRS warning light circuit malfunction (Always lights up, when ignition switch is LOCK position).	05-143
S SRS warning light is always lit up even when ignition switch is in the LOCK position.		
S With the ignition switch is ON, the SRS warning light does not come on.	S SRS warning light circuit malfunction (Does not light up, when ignition switch is turned to ON).	05-146
S DTC is not displayed.	S TC terminal circuit	L
S SRS warning light is always ON at the time of DTC check procedure.		
S DTC is displayed without connecting TC and CG terminal.		

L: Refer to COROLLA Repair Manual (Pub. No. RM925E).

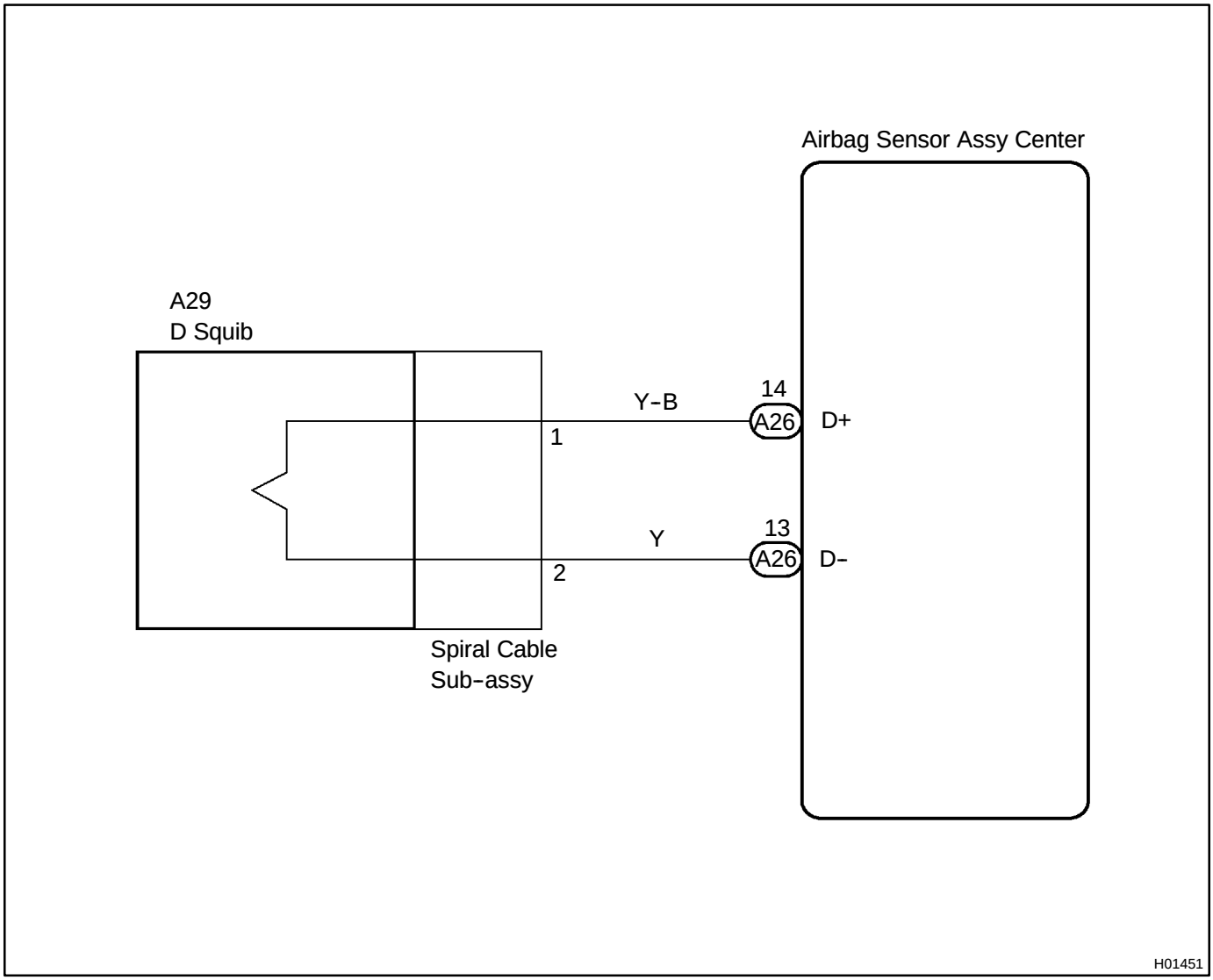
DTC B0100/13 SHORT IN D SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, the spiral cable sub-assy and the horn button assy.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0100/13 is recorded when a short circuit is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0100/13	S Short circuit between D+ wire harness and D- wire harness of D squib S D squib malfunction S Spiral cable sub-assy malfunction S Airbag sensor assy center malfunction	S Horn button assy (D squib) S Spiral cable sub-assy S Airbag sensor assy center S Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

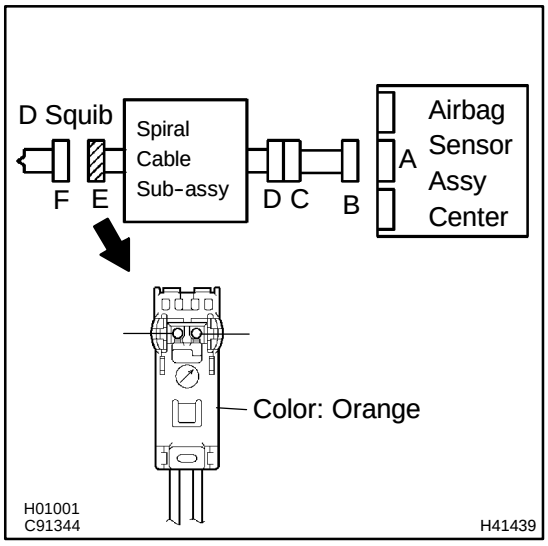
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the horn button assy.
(d) Check that the horn button assy connectors are not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPLACE SPIRAL CABLE SUB-ASSY**

OK

2	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER - HORN BUTTON ASSY)

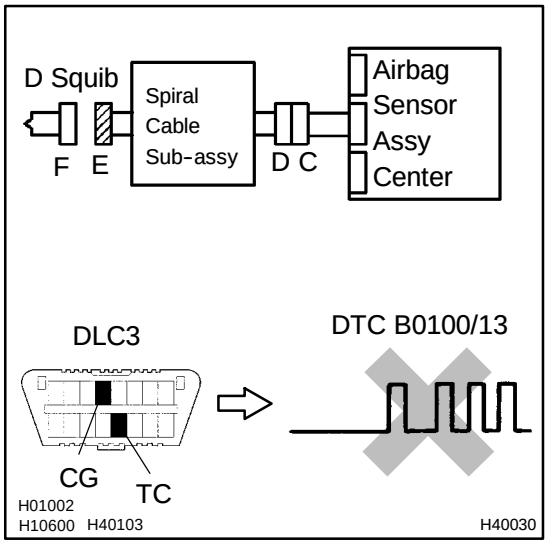


(a) Release the airbag activation prevention mechanism built in the connector "B" (See page 05–4).
(b) Measure the resistance between D+ and D– of the connector "E".
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 5**

OK

3 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).

OK:

DTC B0100/13 is not output.

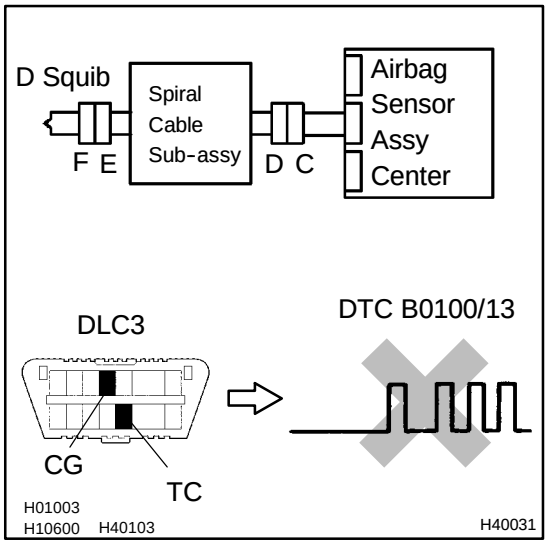
HINT:

Codes other than code B0100/13 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

4 CHECK HORN BUTTON ASSY(D SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the horn button assy connectors.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0100/13 is not output.

HINT:

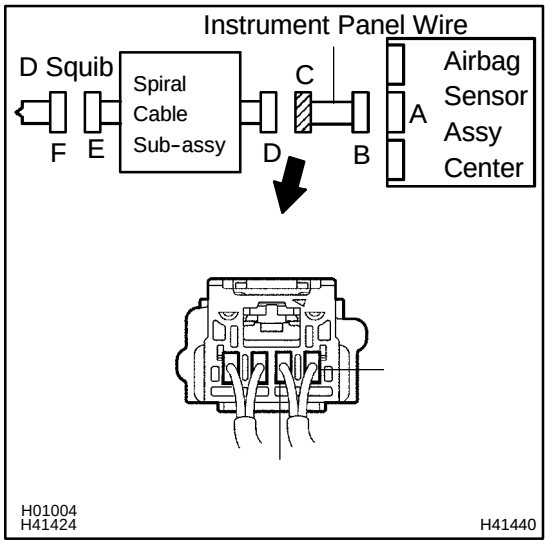
Codes other than code B0100/13 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

5 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the spiral cable sub-assy connector from the instrument panel wire.

(b) Release the airbag activation prevention mechanism built in the connector of the connector "B" (See page 05-4).

(c) Measure the resistance between D+ and D- of the connector "C".

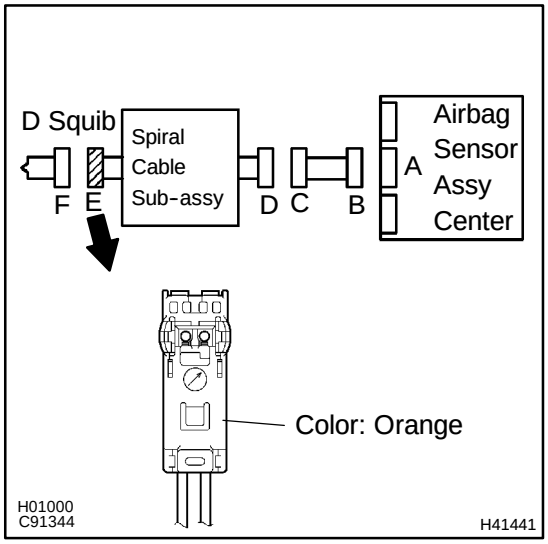
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

6 CHECK SPIRAL CABLE SUB-ASSY



(a) Release the airbag activation prevention mechanism built in the connector of the connector "D" (See page 05-4).

(b) Measure the resistance between D+ and D- of the connector "E".

OK:

Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB-ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0101/14 OPEN IN D SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, the spiral cable sub-assy and the horn button assy.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0101/14 is recorded when an open circuit is detected in the D squib circuit.

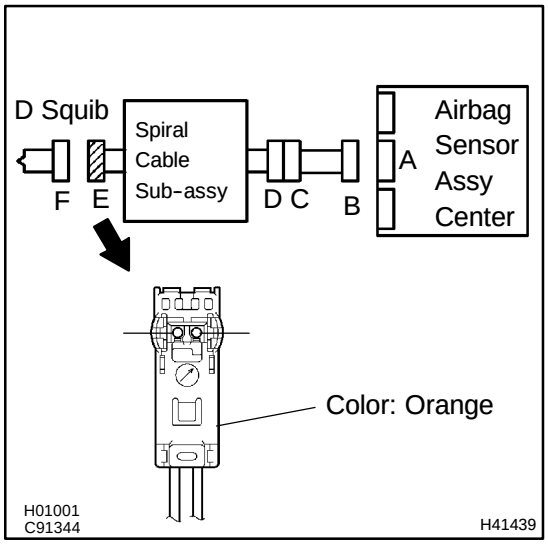
DTC No.	DTC Detecting Condition	Trouble Area
B0101/14	S Open circuit in D+ wire harness or D- wire harness of D squib S D squib malfunction S Spiral cable sub-assy malfunction S Airbag sensor assy center malfunction	S Horn button assy (D squib) S Spiral cable sub-assy S Airbag sensor assy center S Instrument panel wire

WIRING DIAGRAM

See page 05-17.

INSPECTION PROCEDURE

1 CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER - HORN BUTTON ASSY)

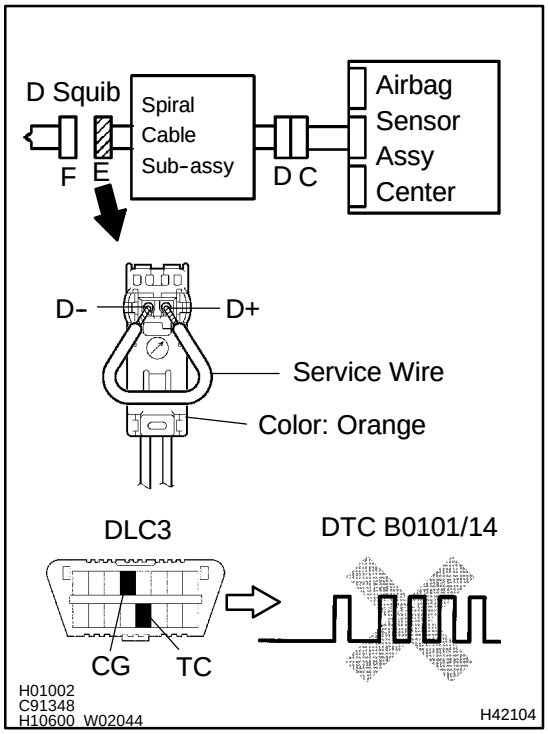


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the horn button assy.
(d) Measure the resistance between D+ and D- of the connector "E".
OK:
Resistance: Below 1 Ω

NG → **Go to step 4**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D+ and D- of the connector "E".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

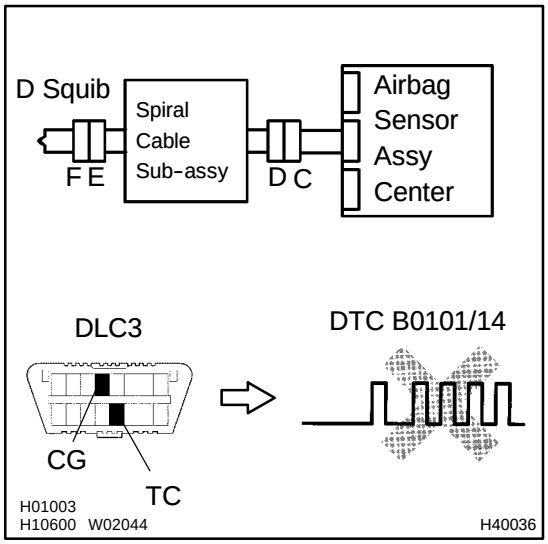
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0101/14 is not output.

HINT:
Codes other than code B0101/14 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK HORN BUTTON ASSY(D SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the horn button assy.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0101/14 is not output.

HINT:

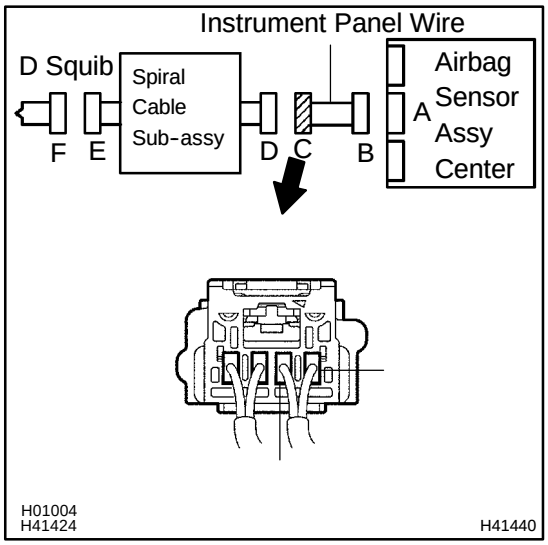
Codes other than code B0101/14 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the spiral cable sub-assy connector from the instrument panel wire.
(b) Measure the resistance between D+ and D- of the connector "C".

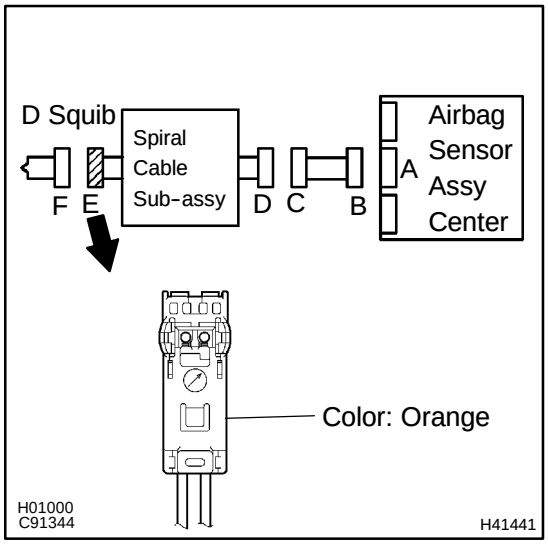
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

5	CHECK SPIRAL CABLE SUB-ASSY



(a) Measure the resistance between D+ and D- of the connector "E".

OK:

Resistance: Below 1 Ω

NG → **REPLACE SPIRAL CABLE SUB-ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0102/11 SHORT IN D SQUIB CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, the spiral cable sub-assy and the horn button assy.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0102/11 is recorded when a short to ground is detected in the D squib circuit.

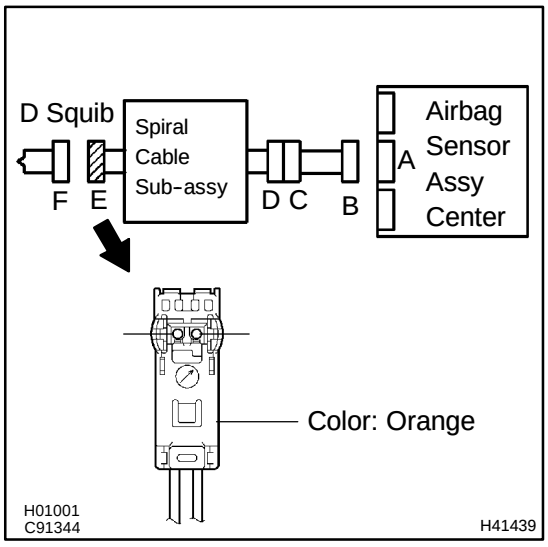
DTC No.	DTC Detecting Condition	Trouble Area
B0102/11	S Short circuit in D squib wire harness (to ground) S D squib malfunction S Spiral cable sub-assy malfunction S Airbag sensor assy center malfunction	S Horn button assy (D squib) S Spiral cable sub-assy S Airbag sensor assy center S Instrument panel wire

WIRING DIAGRAM

See page 05-17.

INSPECTION PROCEDURE

1 CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER - HORN BUTTON ASSY)

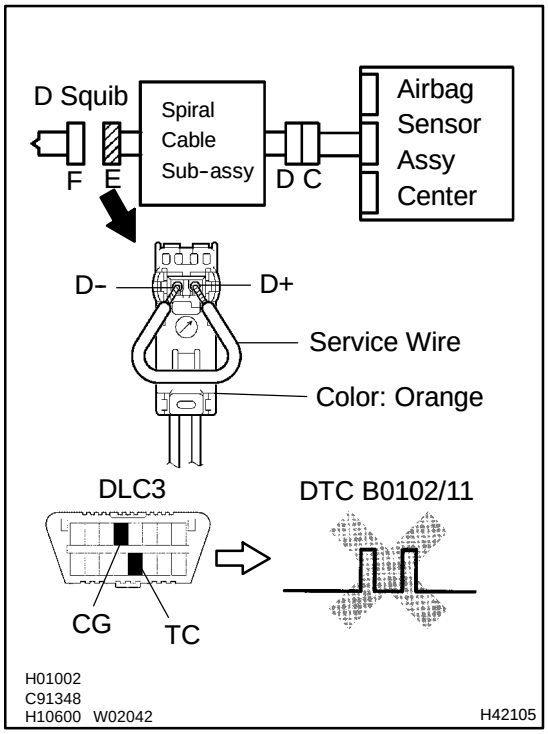


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the horn button assy.
(d) Measure the resistance between the body ground and D+ of the connector "E".
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 5**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D+ and D- of the connector "E".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

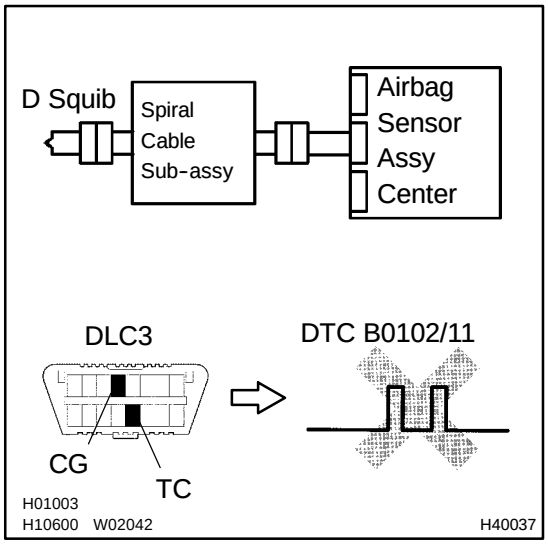
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0102/11 is not output.

HINT:
Codes other than code B0102/11 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK HORN BUTTON ASSY(D SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the horn button assy.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0102/11 is not output.

HINT:

Codes other than code B0102/11 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

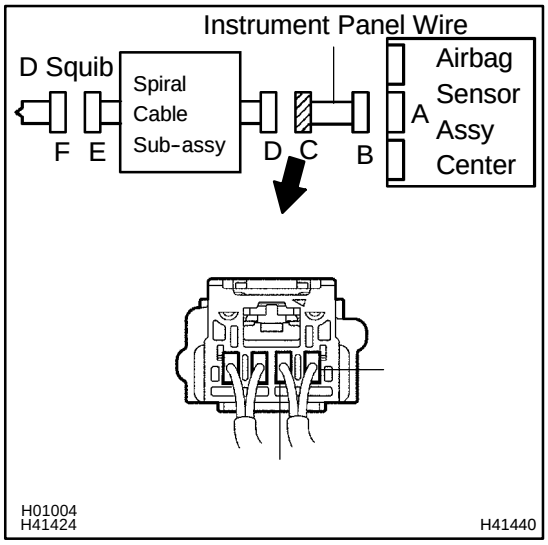
4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the spiral cable sub-assy connector from the instrument panel wire.

(b) Measure the resistance between the body ground and D+ of the connector "C".

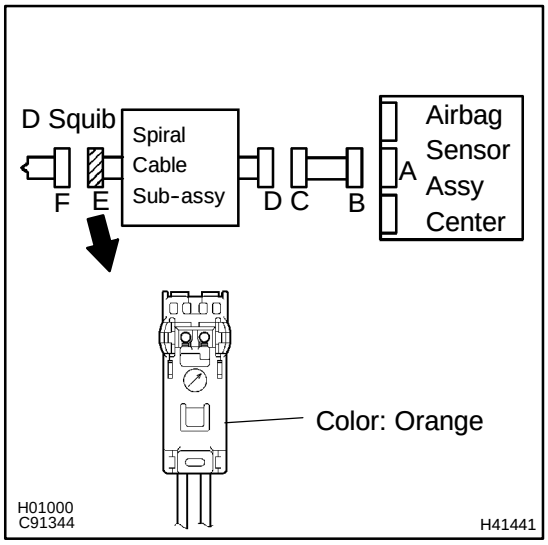
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

6	CHECK SPIRAL CABLE SUB-ASSY



(a) Measure the resistance between the body ground and D+ of the connector "E".

OK:

Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB-ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC B0103/12 SHORT IN D SQUIB CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, the spiral cable sub-assy and the horn button assy.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0103/12 is recorded when a short to B+ is detected in the D squib circuit.

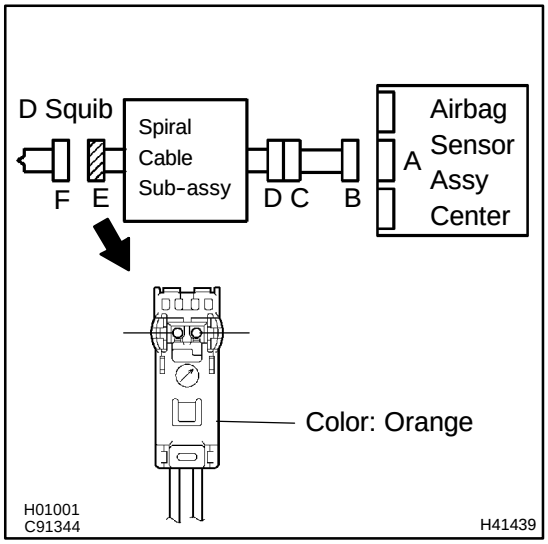
DTC No.	DTC Detecting Condition	Trouble Area
B0103/12	S Short circuit in D squib wire harness (to B+) S D squib malfunction S Spiral cable sub-assy malfunction S Airbag sensor assy center malfunction	S Horn button assy (D squib) S Spiral cable sub-assy S Airbag sensor assy center S Instrument panel wire

WIRING DIAGRAM

See page 05-17.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER - HORN BUTTON ASSY)

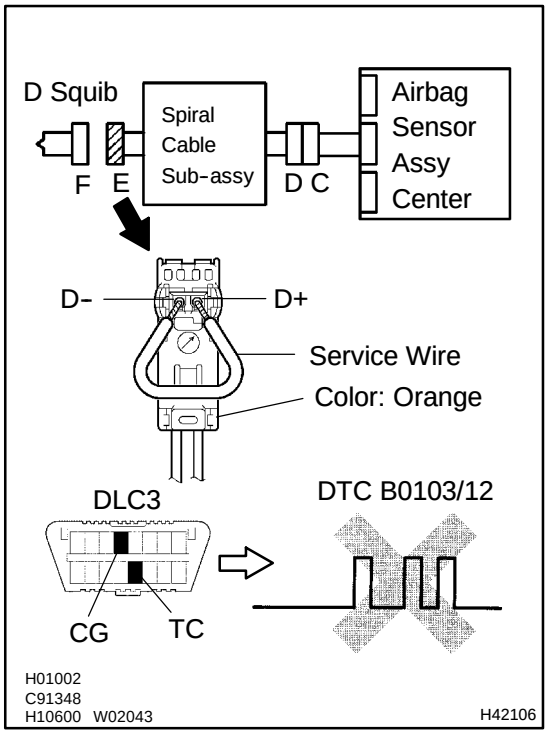


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the horn button assy.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and D+ of the connector "E".
OK:
Voltage: Below 1 V

NG → **Go to step 5**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Connect the connector to the airbag sensor assy center.
(c) Using a service wire, connect D+ and D- of the connector "E".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

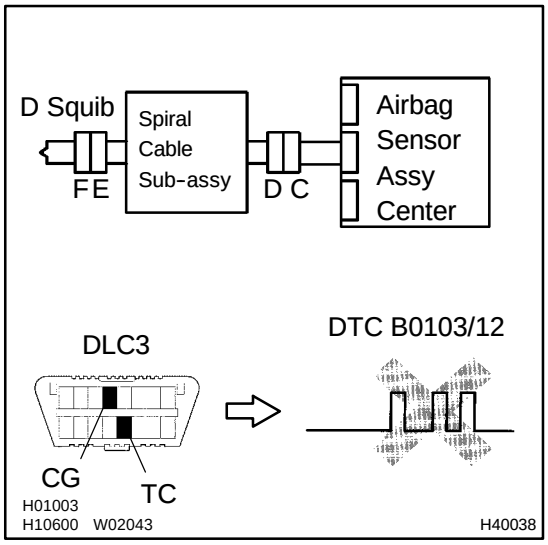
OK:
DTC B0103/12 is not output.

HINT:
Codes other than code B0103/12 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK HORN BUTTON ASSY(D SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the horn button assy.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0103/12 is not output.

HINT:

Codes other than code B0103/12 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

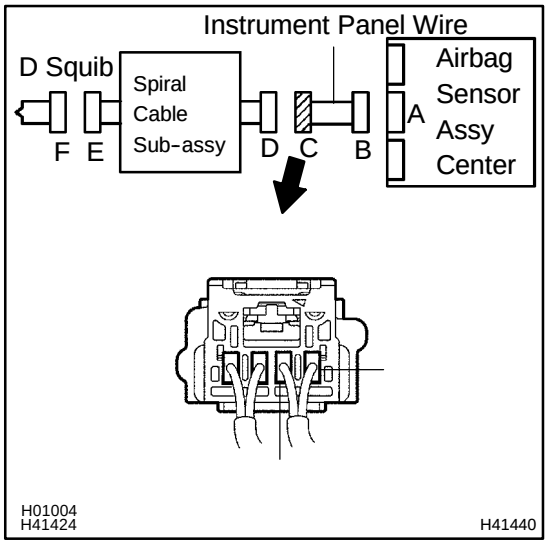
4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE

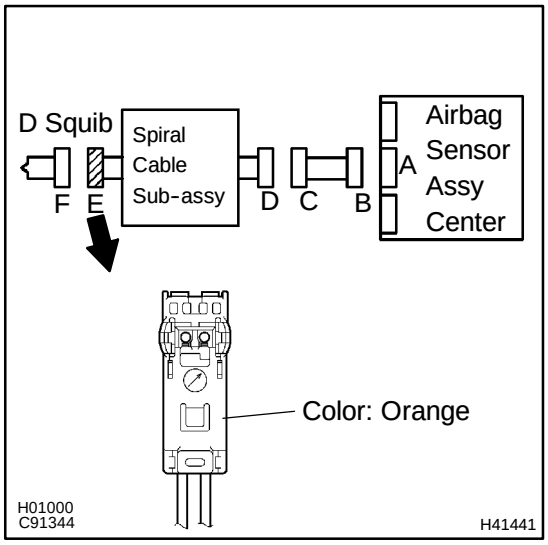


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the spiral cable sub-assy connector from the instrument panel wire.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and D+ of the connector "C".
OK:
Voltage: Below 1 V

NG	REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6	CHECK SPIRAL CABLE SUB-ASSY



(a) Turn the ignition switch to the LOCK position.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage between the body ground and D+ of the connector "E".
OK:
Voltage: Below 1 V

NG	REPLACE SPIRAL CABLE SUB-ASSY

OK

7	USE SIMULATION METHOD TO CHECK

NG	Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC B0110/43 SHORT IN SIDE SQUIB (RH) CIRCUIT

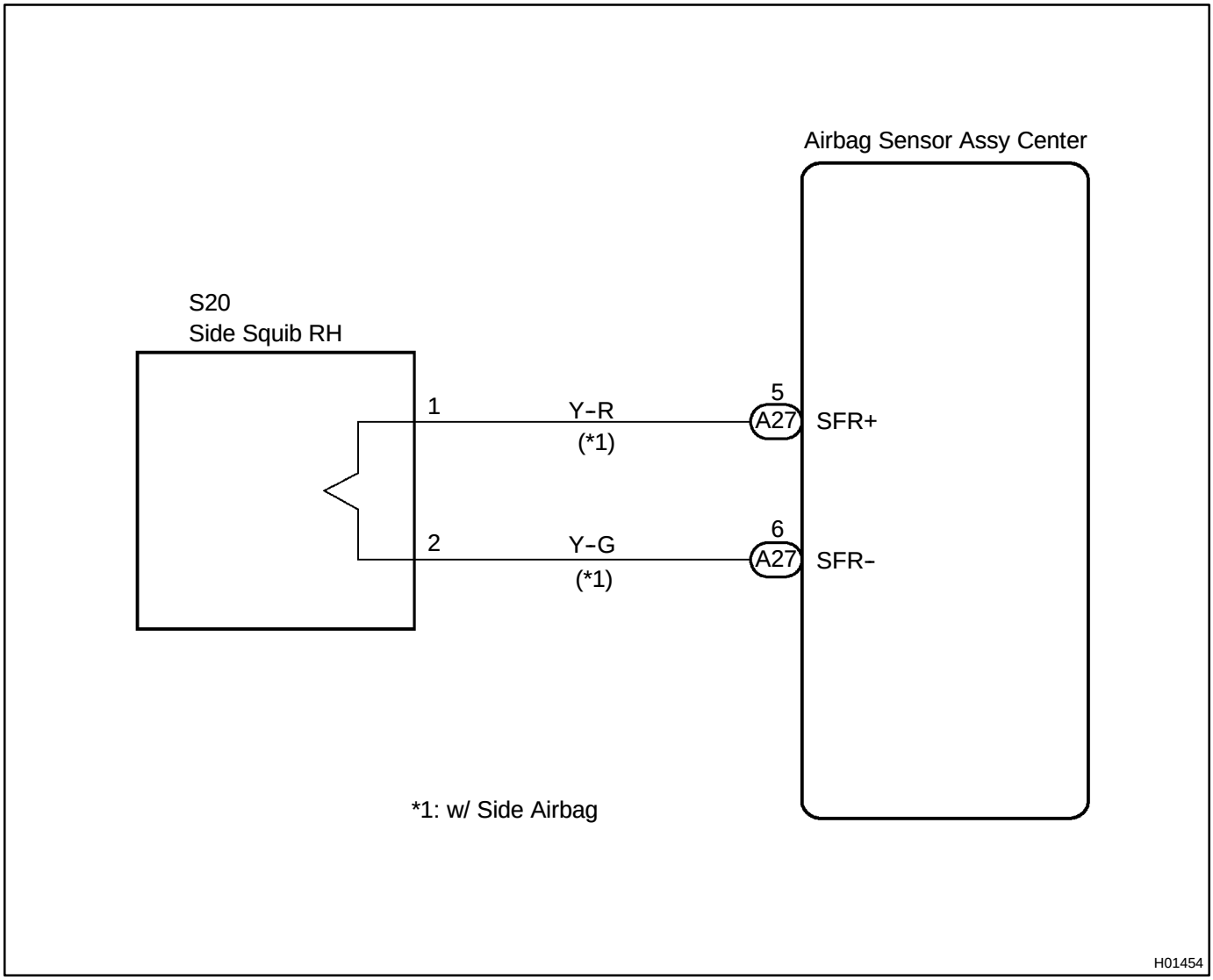
CIRCUIT DESCRIPTION

The side squib RH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0110/43 is recorded when a short circuit is detected in the side squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0110/43	S Short circuit between SFR+ wire harness and SFR- wire harness of side squib RH S Side squib RH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib RH) S Airbag sensor assy center S Floor wire

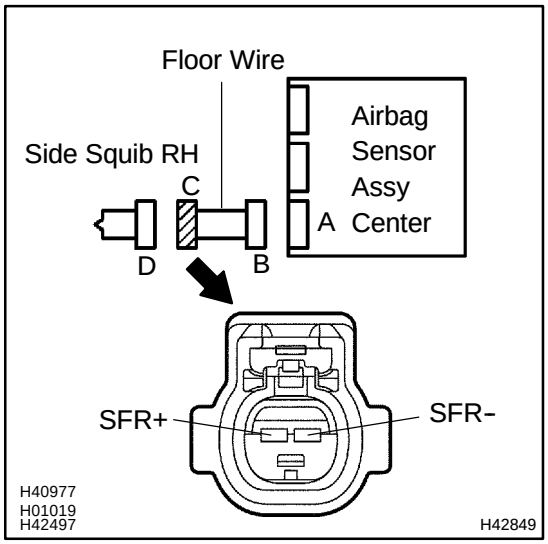
HINT:
DTC B0110/43 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB RH CIRCUIT)

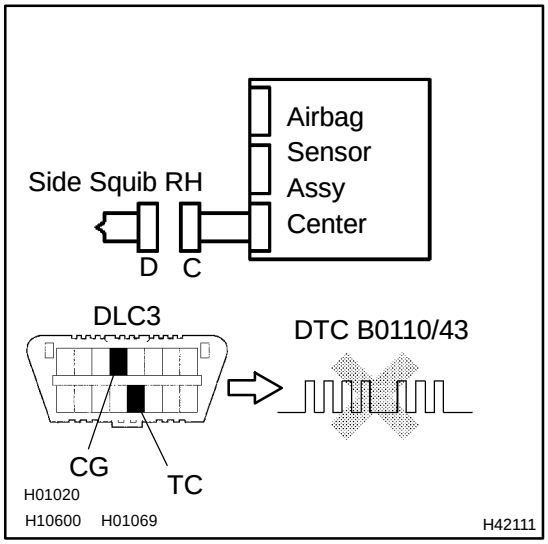


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib RH).
(d) Release the airbag activation prevention mechanism built in the connector "B" (See page 05–4).
(e) Measure the resistance between SFR+ and SFR– of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



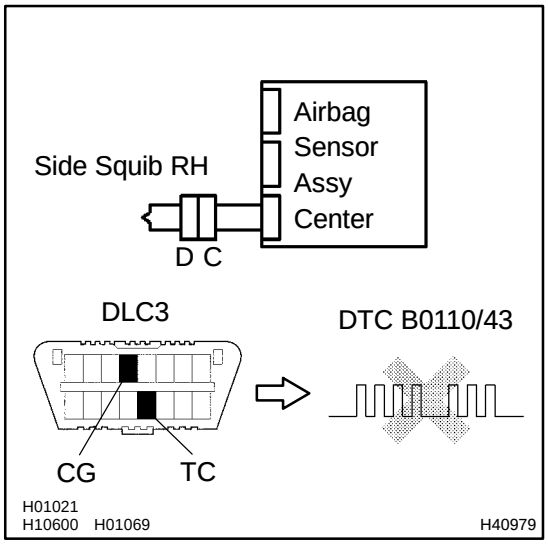
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05–4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05–4).
OK:
DTC B0110/43 is not output.

HINT:
Codes other than code B0110/43 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib RH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0110/43 is not output.

HINT:
Codes other than code B0110/43 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK →

USE SIMULATION METHOD TO CHECK

DTC B0111/44 OPEN IN SIDE SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib RH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0111/44 is recorded when an open circuit is detected in the side squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0111/44	S Open circuit in SFR+ wire harness or SFR- wire harness of side squib RH S Side squib RH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib RH) S Airbag sensor assy center S Floor wire

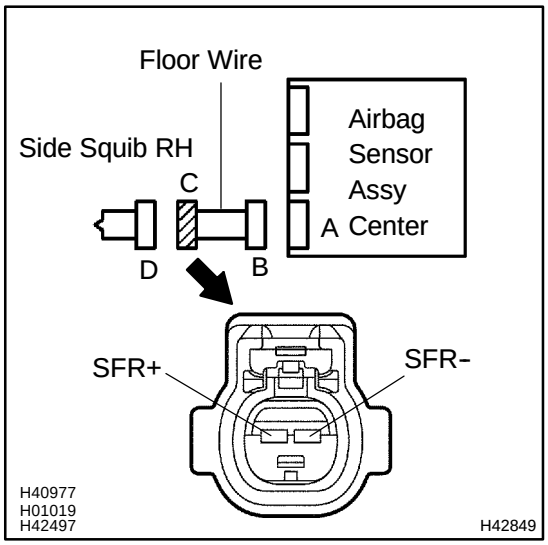
HINT:
DTC B0111/44 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05-33.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB RH CIRCUIT)

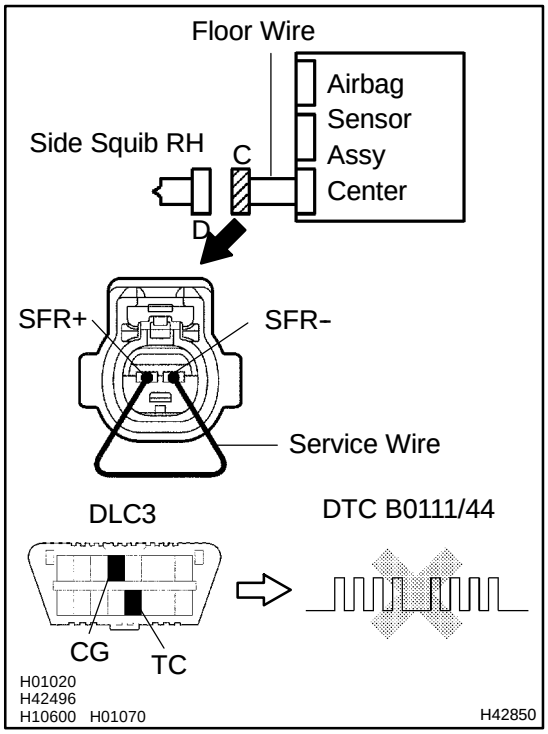


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib RH).
(d) Measure the resistance between SFR+ and SFR- of the connector "C".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFR+ and SFR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

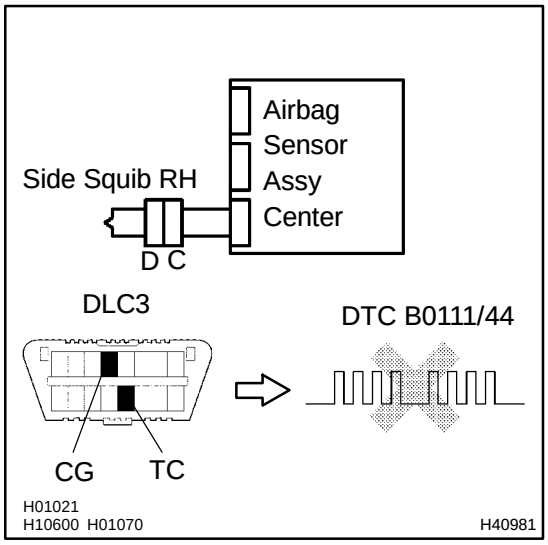
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0111/44 is not output.

HINT:
Codes other than code B0111/44 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib RH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0111/44 is not output.

HINT:
Codes other than code B0111/44 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK →

USE SIMULATION METHOD TO CHECK

DTC	B0112/41	SHORT IN SIDE SQUIB (RH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The side squib RH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0112/41 is recorded when a short to ground is detected in the side squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0112/41	S Short circuit in side squib RH wire harness (to ground) S Side squib RH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib RH) S Airbag sensor assy center S Floor wire

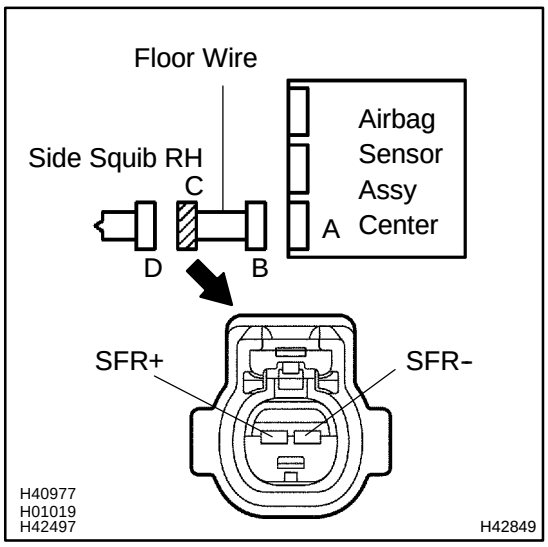
HINT:
DTC B0112/41 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05-33.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB RH CIRCUIT)

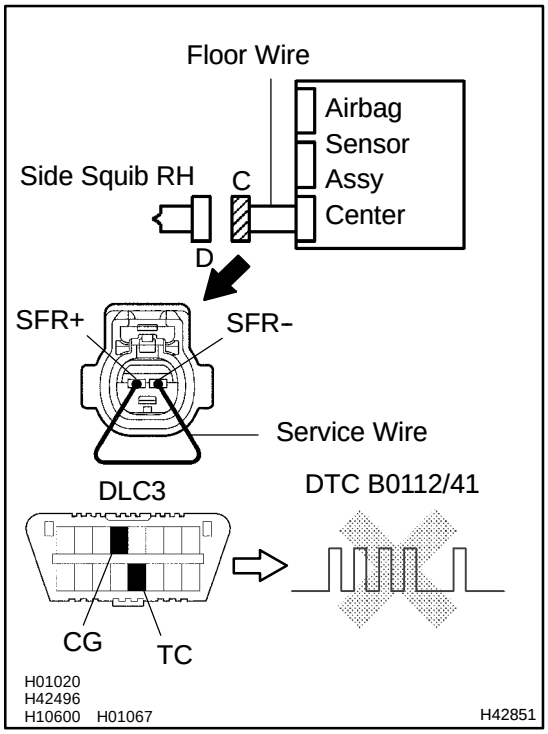


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib RH).
(d) Measure the resistance between the body ground and SFR+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFR+ and SFR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

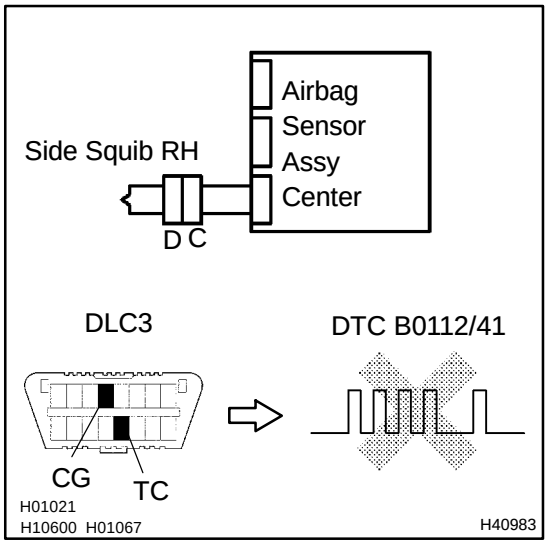
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0112/41 is not output.

HINT:
Codes other than code B0112/41 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib RH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0112/41 is not output.

HINT:
Codes other than code B0112/41 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B0113/42	SHORT IN SIDE SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The side squib RH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0113/42 is recorded when a short to B+ is detected in the side squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0113/42	S Short circuit in side squib RH wire harness (to B+) S Side squib RH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib RH) S Airbag sensor assy center S Floor wire

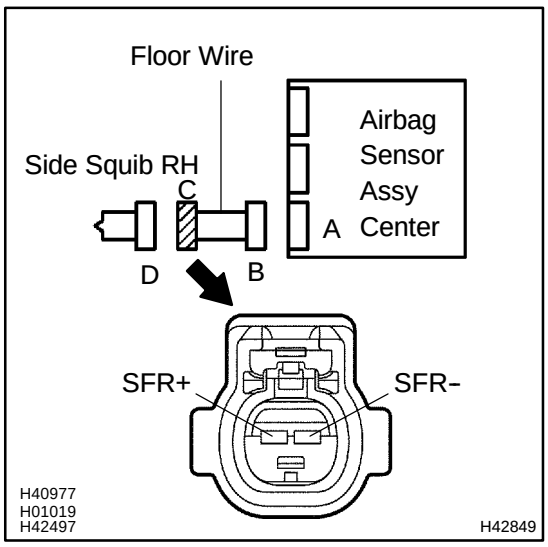
HINT:
DTC B0113/42 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05–33.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB RH CIRCUIT)

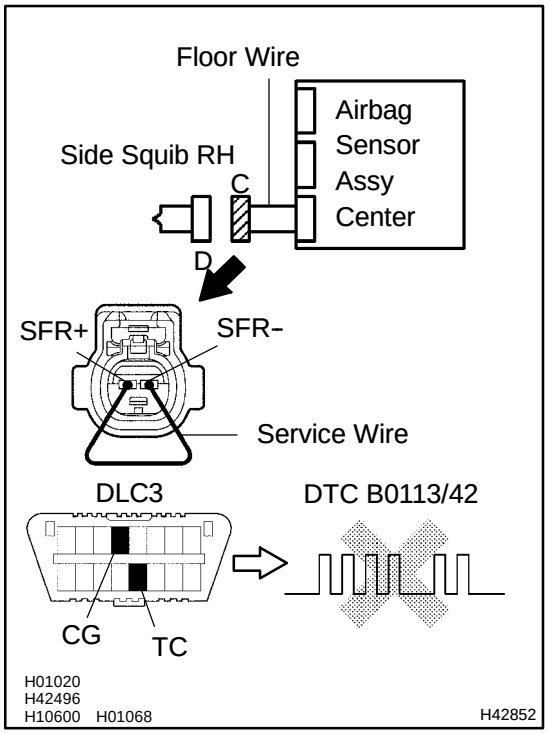


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib RH).
(d) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and SFR+ of the connector "C".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect SFR+ and SFR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

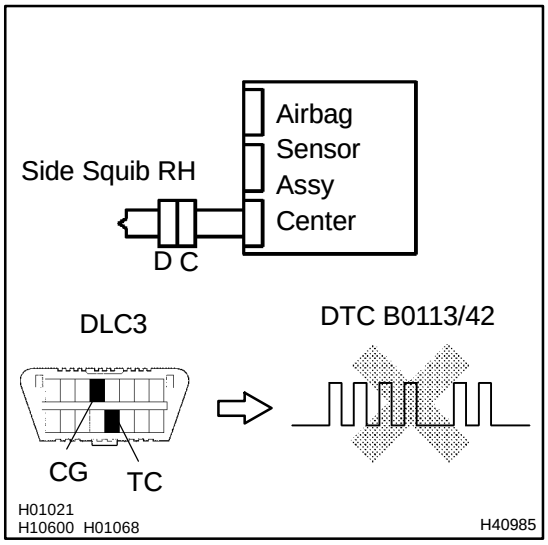
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
DTC B0113/42 is not output.

HINT:
Codes other than code B0113/42 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib RH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0113/42 is not output.

HINT:
Codes other than code B0113/42 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC B0115/47 SHORT IN SIDE SQUIB (LH) CIRCUIT

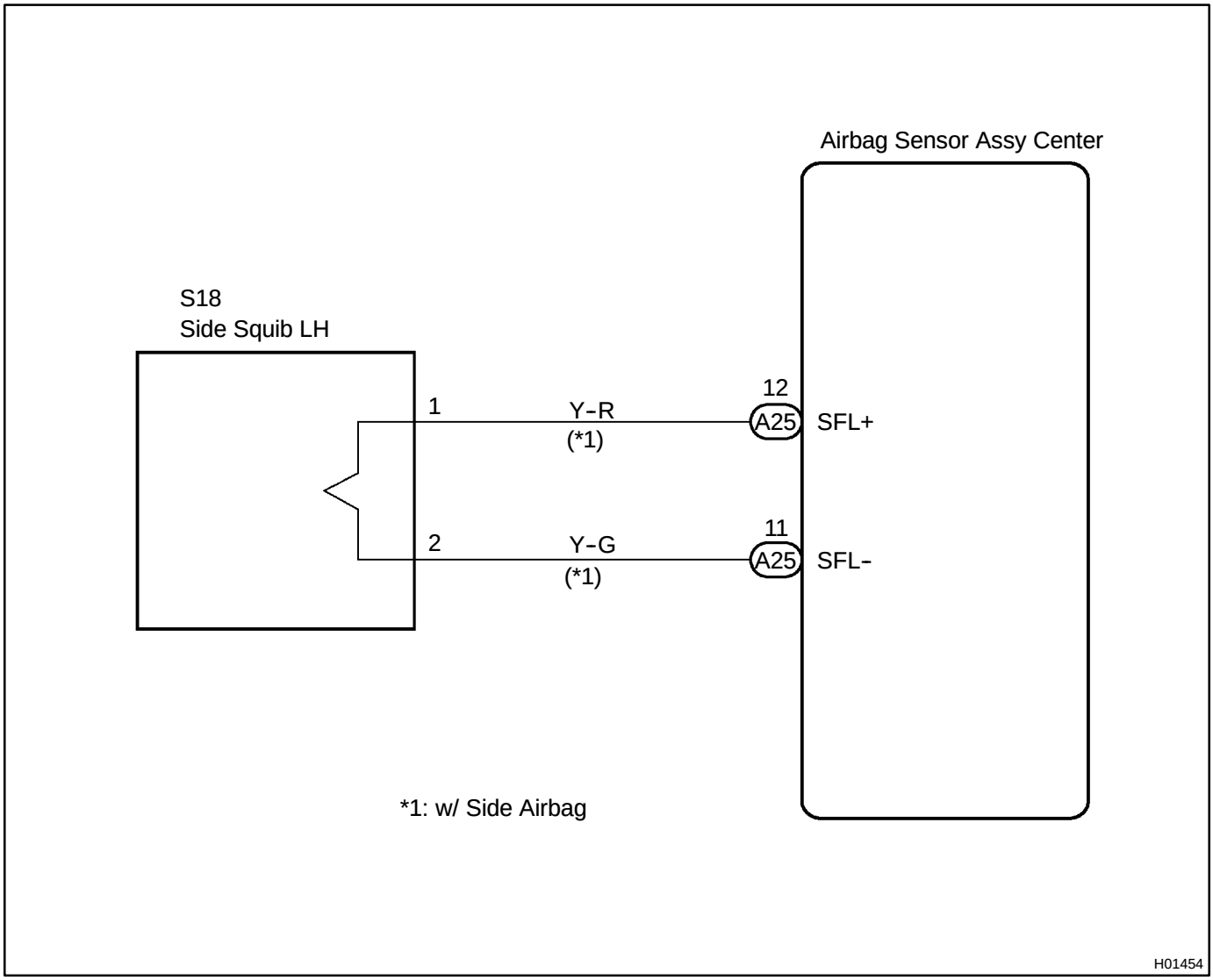
CIRCUIT DESCRIPTION

The side squib LH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0115/47 is recorded when a short circuit is detected in the side squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0115/47	S Short circuit between SFL+ wire harness and SFL- wire harness of side squib LH S Side squib LH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib LH) S Airbag sensor assy center S Floor wire

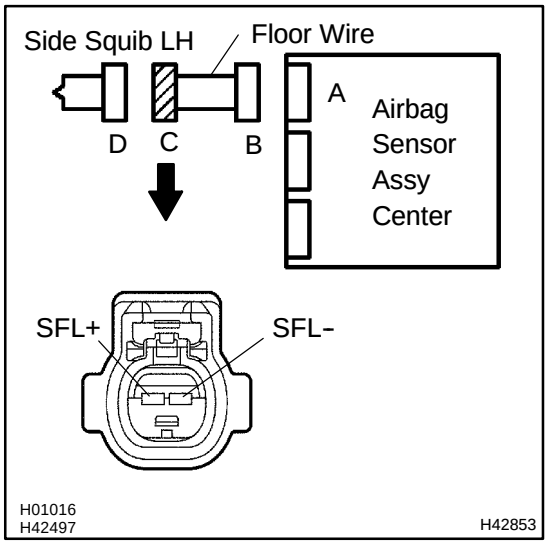
HINT:
DTC B0115/47 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB LH CIRCUIT)

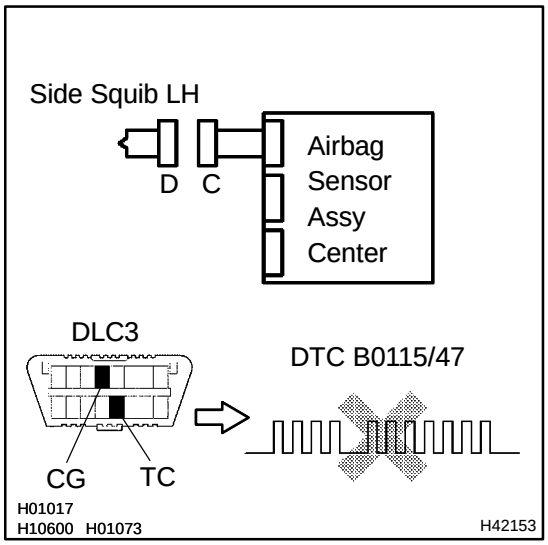


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib LH).
(d) Release the airbag activation prevention mechanism built in the connector "B" (See page 05-4).
(e) Measure the resistance between SFL+ and SFL- of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



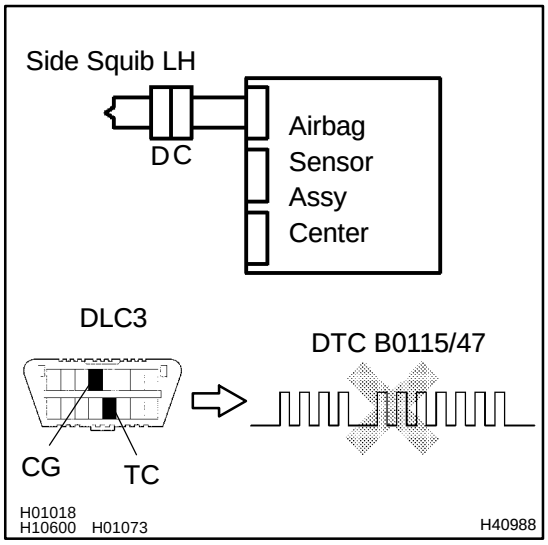
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B0115/47 is not output.

HINT:
Codes other than code B0115/47 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib LH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0115/47 is not output.

HINT:

Codes other than code B0115/47 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK →

USE SIMULATION METHOD TO CHECK

DTC B0116/48 OPEN IN SIDE SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib LH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib LH).
This circuit the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0116/48 is recorded when an open circuit is detected in the side squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0116/48	S Open circuit in SFL+ wire harness or SFL– wire harness of side squib LH S Side squib LH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib LH) S Airbag sensor assy center S Floor wire

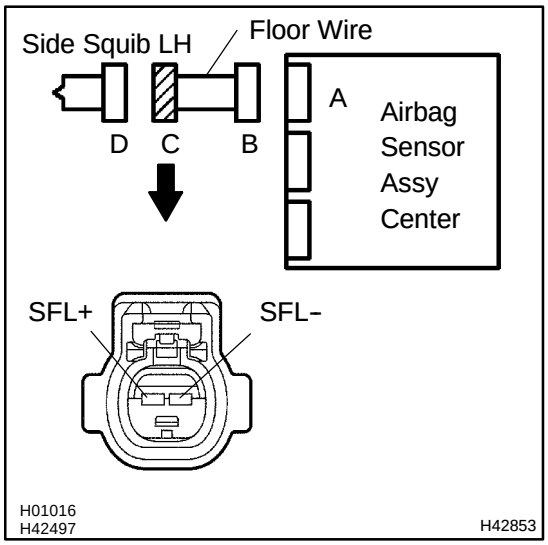
HINT:
DTC B0116/48 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05–45.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB LH CIRCUIT)

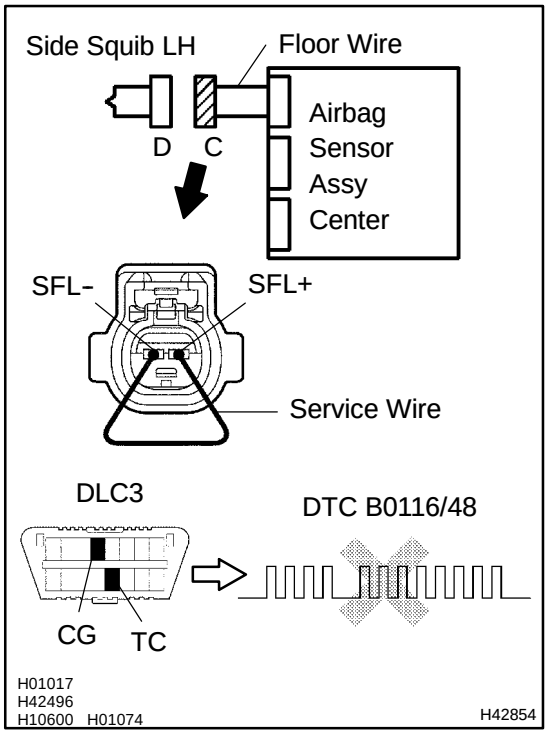


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib LH).
(d) Measure the resistance between SFL+ and SFL– of the connector "C".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFL+ and SFL- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

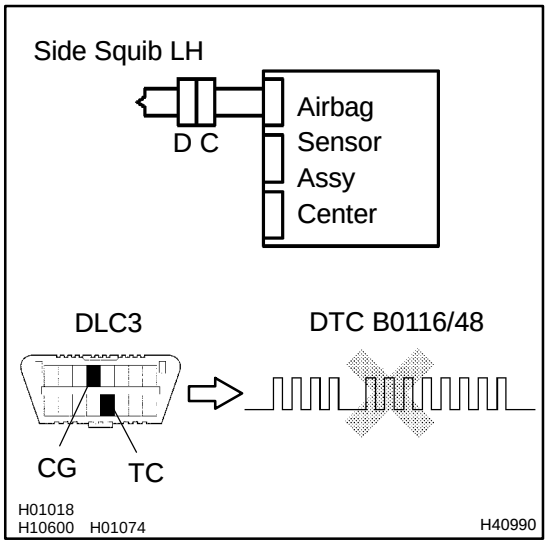
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0116/48 is not output.

HINT:
Codes other than code B0116/48 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib LH).
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05–4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05–4).

OK:

DTC B0116/48 is not output.

HINT:

Codes other than code B0116/48 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0117/45	SHORT IN SIDE SQUIB (LH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The side squib LH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0117/45 is recorded when a short to ground is detected in the side squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0117/45	S Short circuit in side squib LH wire harness (to ground) S Side squib LH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib LH) S Airbag sensor assy center S Floor wire

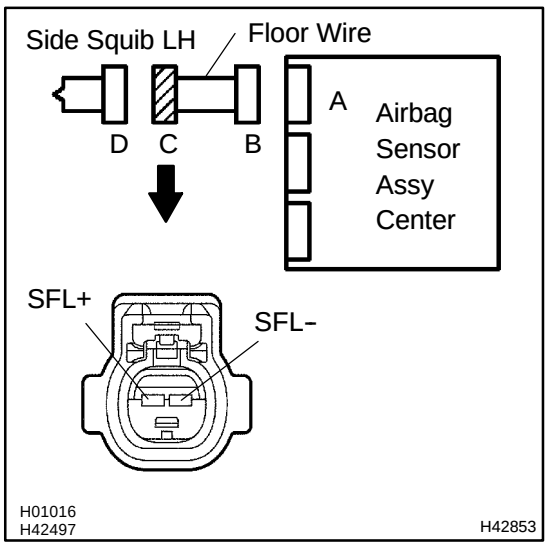
HINT:
DTC B0117/45 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05-45.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB LH CIRCUIT)

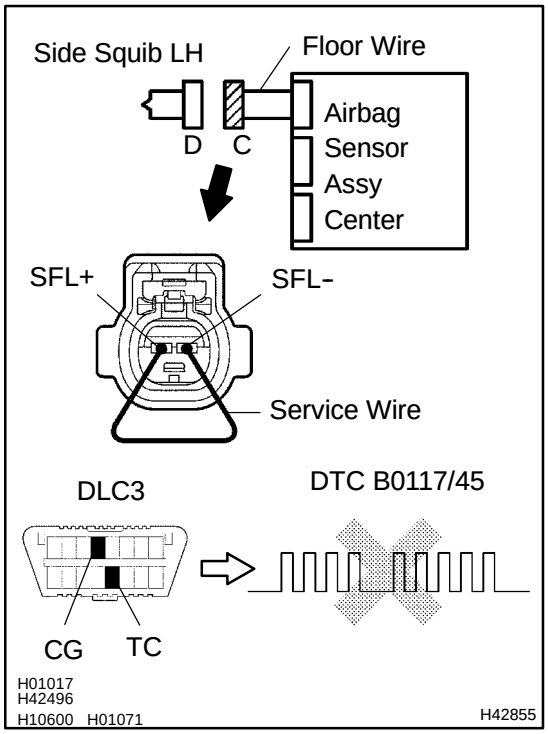


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib LH).
(d) Measure the resistance between the body ground and SFL+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFL+ and SFL– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

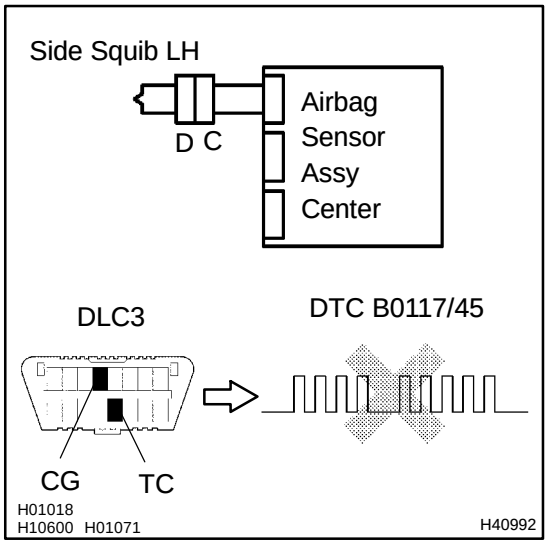
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B0117/45 is not output.

HINT:
Codes other than code B0117/45 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib LH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0117/45 is not output.

HINT:

Codes other than code B0117/45 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B0118/46	SHORT IN SIDE SQUIB (LH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The side squib LH circuit consists of the airbag sensor assy center and the separate type front seat back assy (side squib LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0118/46 is recorded when a short to B+ is detected in the side squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0118/46	S Short circuit in side squib LH wire harness (to B+) S Side squib LH malfunction S Airbag sensor assy center malfunction	S Separate type front seat back assy (Side squib LH) S Airbag sensor assy center S Floor wire

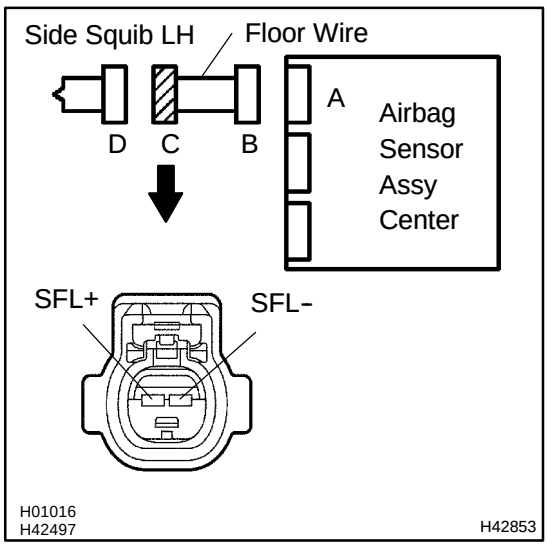
HINT:
DTC B0118/46 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

See page 05-45.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(SIDE SQUIB LH CIRCUIT)

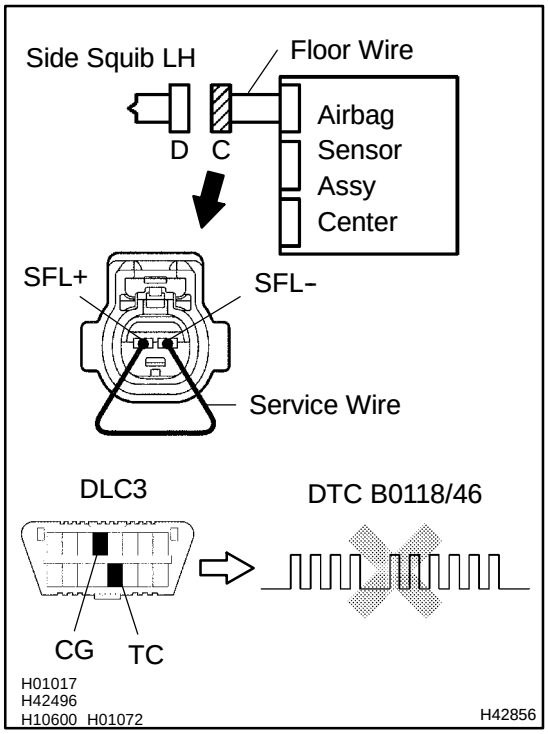


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the separate type front seat back assy (side squib LH).
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and SFL+ of the connector "C".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect SFL+ and SFL- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

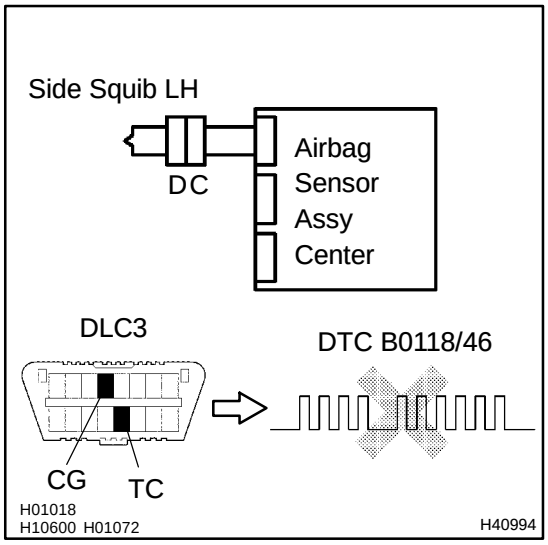
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
DTC B0118/46 is not output.

HINT:
Codes other than code B0118/46 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SEPARATE TYPE FRONT SEAT BACK ASSY(SIDE SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the separate type front seat back assy (side squib LH).
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0118/46 is not output.

HINT:
Codes other than code B0118/46 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

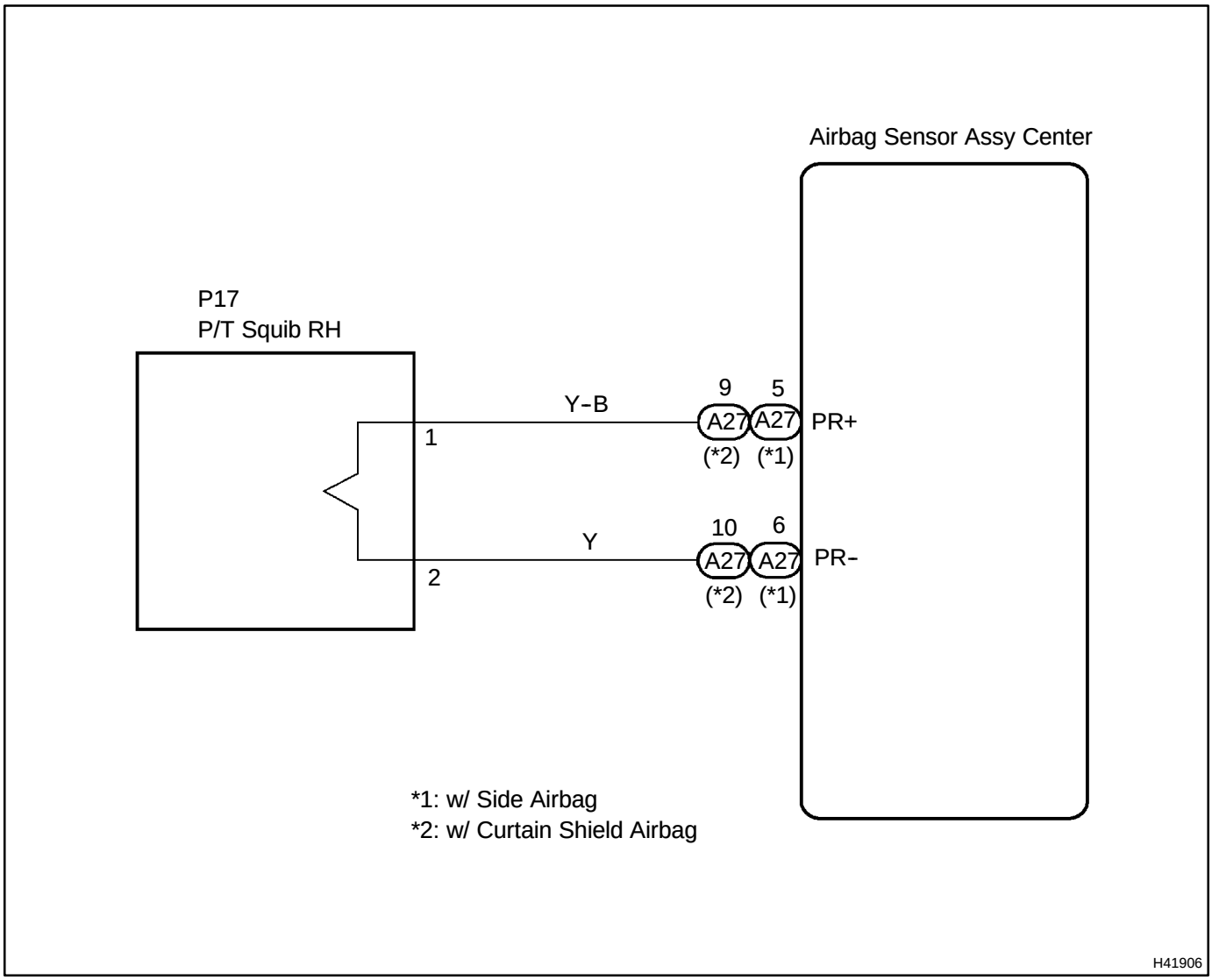
DTC B0130/63 SHORT IN P/T SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib RH circuit consists of the airbag sensor assy center and the front seat outer belt assy RH (seat belt pretensioner RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0130/63 is recorded when a short circuit is detected in the P/T squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0130/63	S Short circuit between PR+ wire harness and PR- wire harness of P/T squib RH S P/T squib RH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy RH (P/T squib RH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM



INSPECTION PROCEDURE

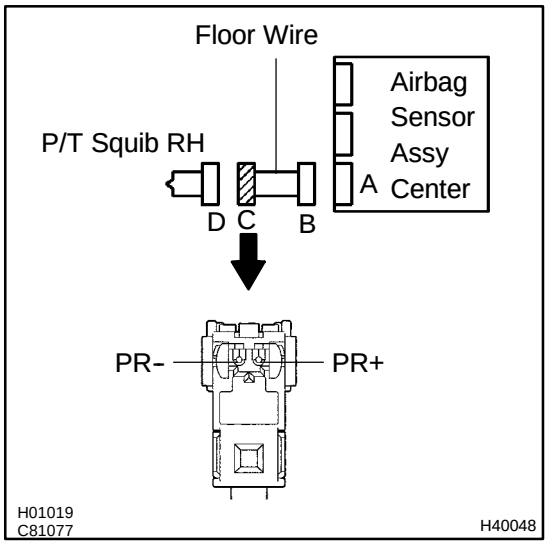
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag assy center and the front seat outer belt assy RH.
(d) Check that the front seat outer belt assy RH connector is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK FLOOR WIRE(P/T SQUIB RH CIRCUIT)

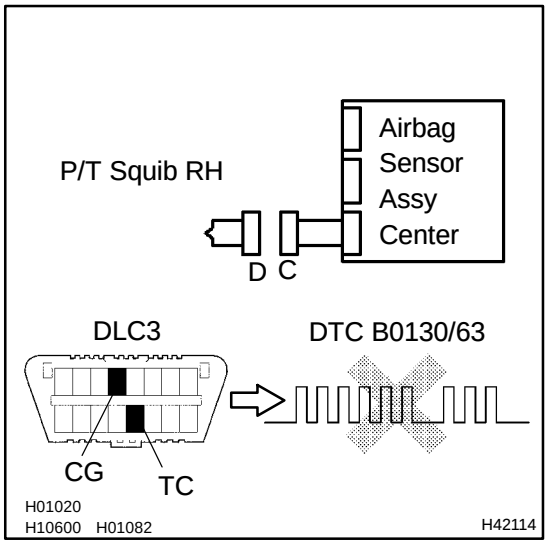


(a) Release the airbag activation prevention mechanism built in the connector "B" (See page 05-4).
(b) Measure the resistance between PR+ and PR- of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK AIR BAG SENSOR ASSY CENTER



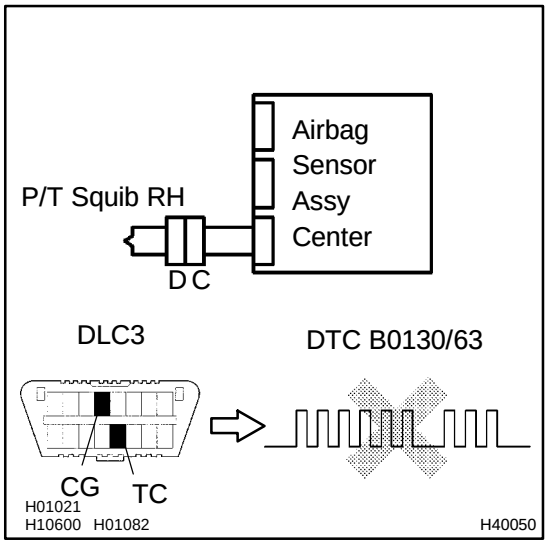
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B0130/63 is not output.

HINT:
Codes other than code B0130/63 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

4 CHECK FRONT SEAT OUTER BELT ASSY RH(P/T SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0130/63 is not output.

HINT:
Codes other than code B0130/63 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC B0131/64 OPEN IN P/T (RH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib RH circuit consists of the airbag sensor assy center and the front seat outer belt assy RH (seat belt pretensioner RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0131/64 is recorded when an open circuit is detected in the P/T squib RH circuit.

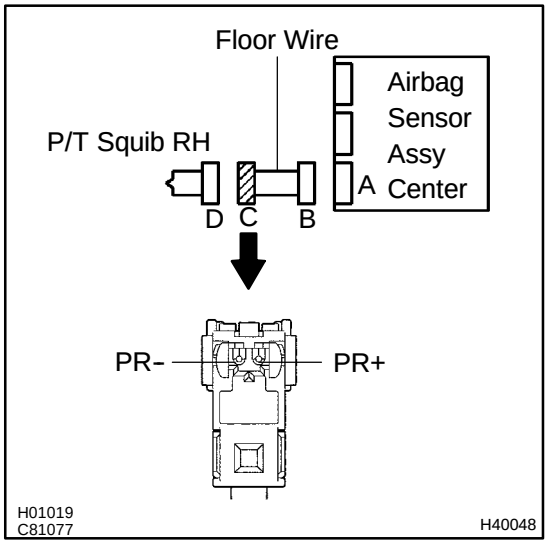
DTC No.	DTC Detecting Condition	Trouble Area
B0131/64	S Open circuit in PR+ wire harness or PR- wire harness of P/T squib RH S P/T squib RH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy RH (P/T squib RH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05-57.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(P/T SQUIB RH CIRCUIT)

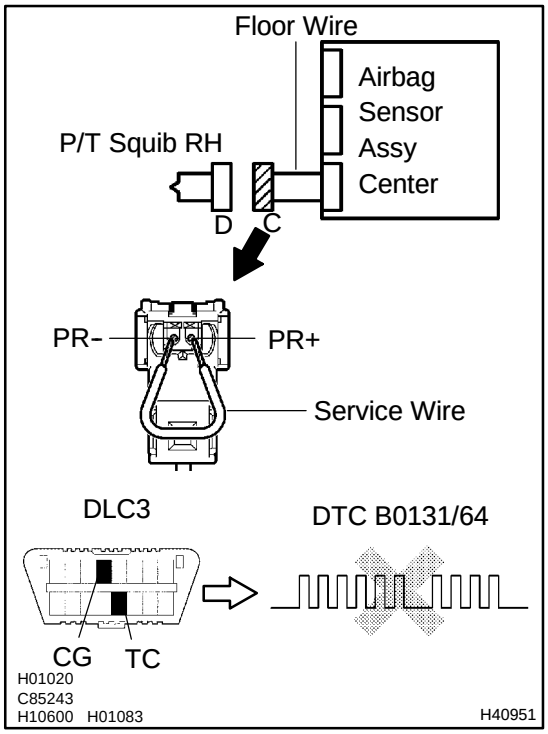


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy RH.
(d) Measure the resistance between PR+ and PR- of the connector "C".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PR+ and PR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

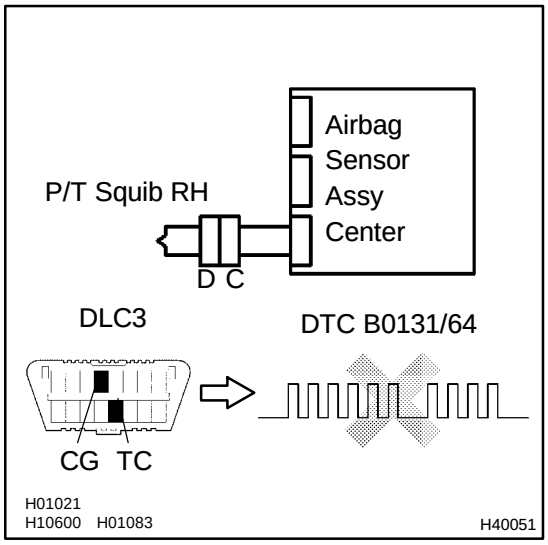
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0131/64 is not output.

HINT:
Codes other than code B0131/64 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY RH(P/T SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0131/64 is not output.

HINT:
Codes other than code B0131/64 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0132/61	SHORT IN P/T SQUIB (RH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P/T squib RH circuit consists of the airbag sensor assy center and the front seat outer belt assy RH (seat belt pretensioner RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0132/61 is recorded when a short to ground is detected in the P/T squib RH circuit.

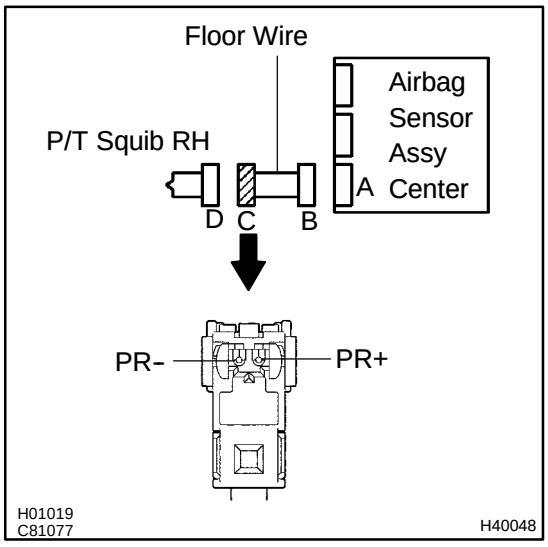
DTC No.	DTC Detecting Condition	Trouble Area
B0132/61	S Short circuit in P/T squib RH wire harness (to ground) S P/T squib RH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy RH (P/T squib RH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05-57.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(P/T SQUIB RH CIRCUIT)

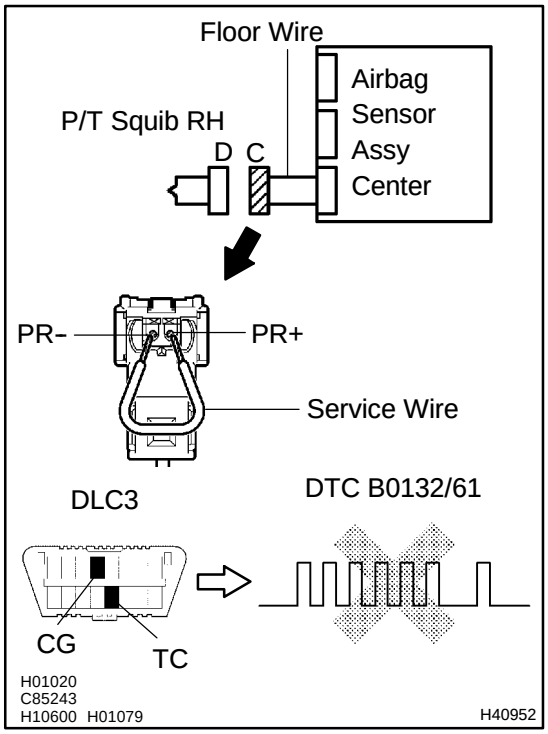


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy RH.
(d) Measure the resistance between the body ground and PR+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PR+ and PR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

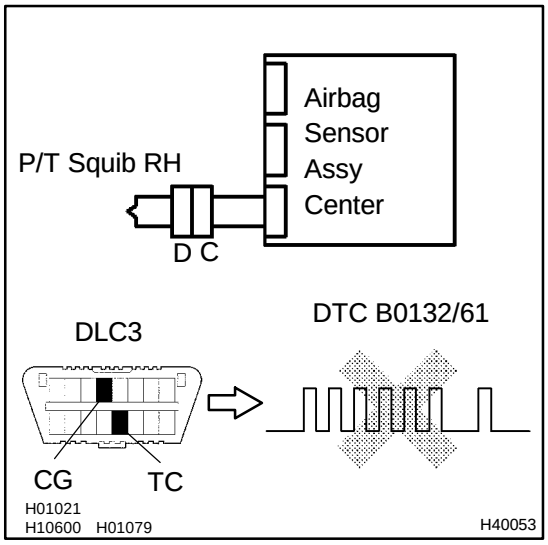
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0132/61 is not output.

HINT:
Codes other than code B0132/61 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY RH(P/T SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the front seat outer belt assy RH connector.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B0132/61 is not output.

HINT:

Codes other than code B0132/61 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC B0133/62 SHORT IN P/T SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib RH circuit consists of the airbag sensor assy center and the front seat outer belt assy RH (seat belt pretensioner RH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0133/62 is recorded when a short to B+ is detected in the P/T squib RH circuit.

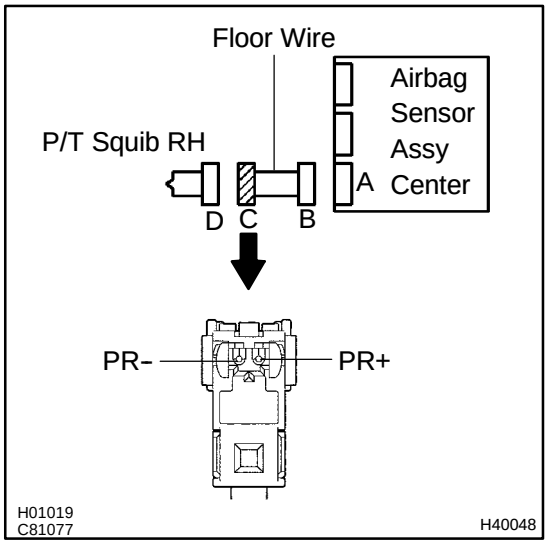
DTC No.	DTC Detecting Condition	Trouble Area
B0133/62	S Short circuit in P/T squib RH wire harness (to B+) S P/T squib RH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy RH (P/T squib RH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05-57.

INSPECTION PROCEDURE

1 CHECK FLOOR WIRE(P/T SQUIB RH CIRCUIT)

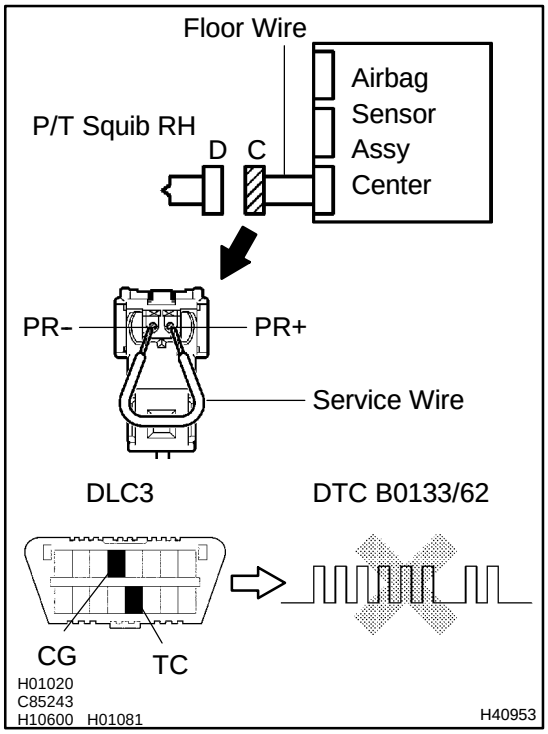


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy RH.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and PR+ of the connector "C".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect PR+ and PR- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

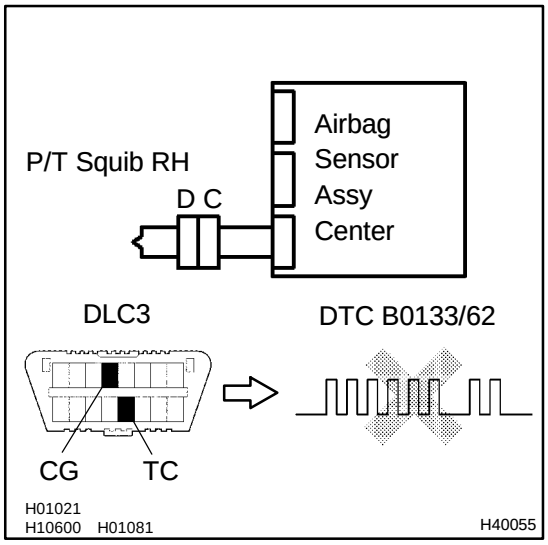
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
DTC B0133/62 is not output.

HINT:
Codes other than code B0133/62 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY RH(P/T SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0133/62 is not output.

HINT:
Codes other than code B0133/62 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

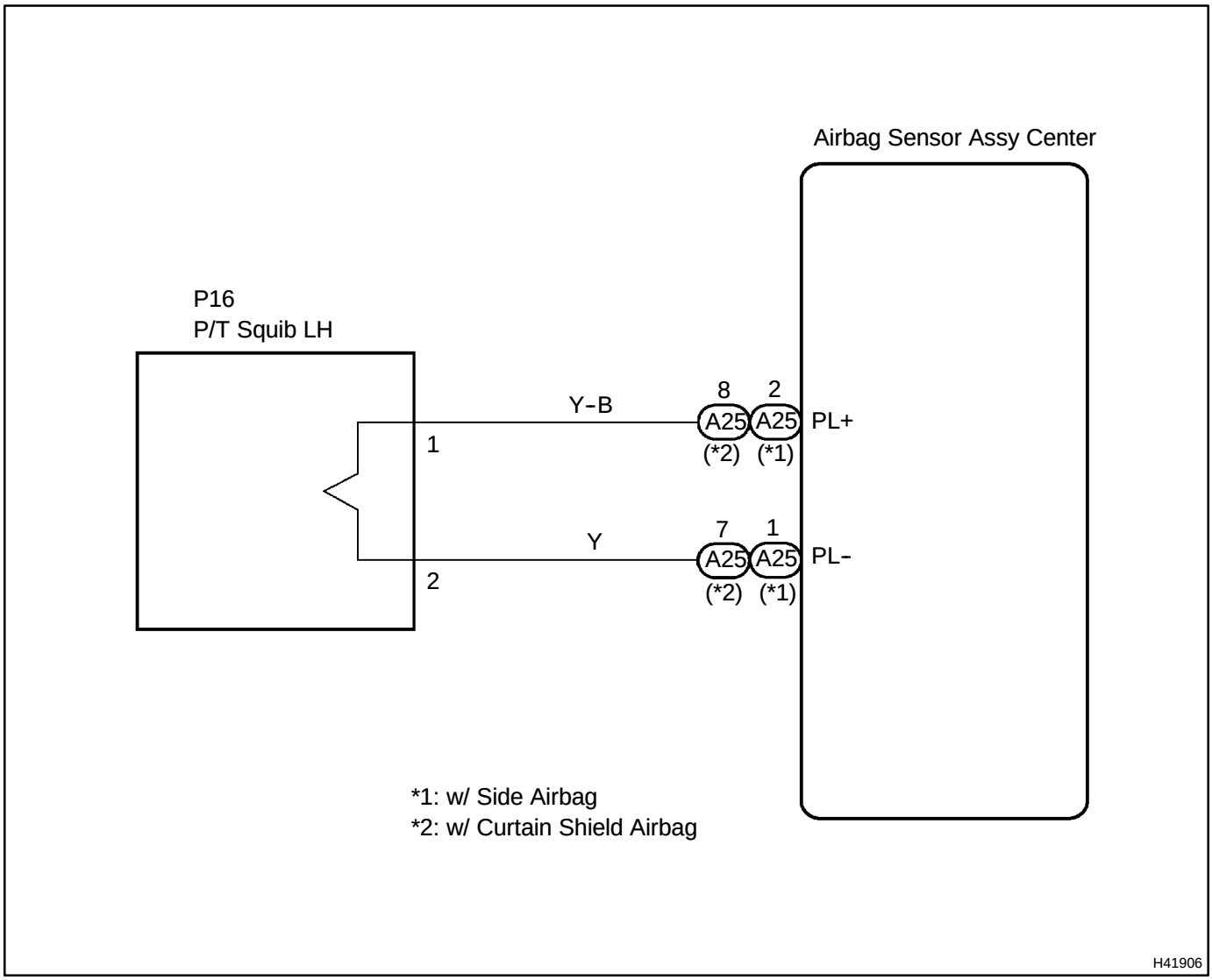
DTC B0135/73 SHORT IN P/T SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib LH circuit consists of the airbag sensor assy center and the front seat outer belt assy LH (seat belt pretensioner LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0135/73 is recorded when a short circuit is detected in the P/T squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0135/73	S Short circuit between PL+ wire harness and PL- wire harness of P/T squib LH S P/T squib LH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy LH (P/T squib LH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM



INSPECTION PROCEDURE

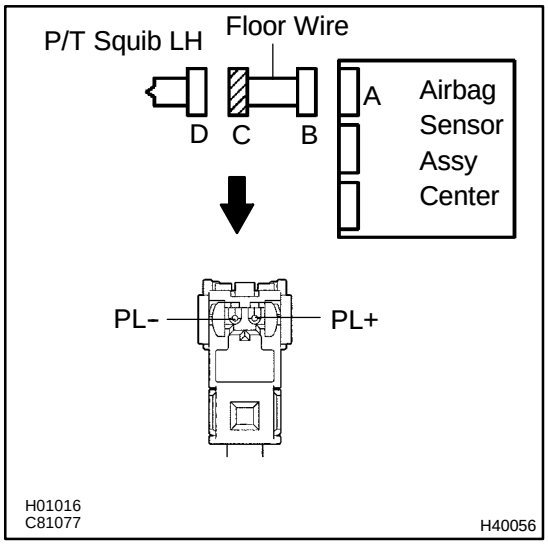
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the airbag sensor assy center and the front seat outer belt assy LH.
(d) Check that the front seat outer belt assy LH connector is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK FLOOR WIRE(P/T SQUIB LH CIRCUIT)

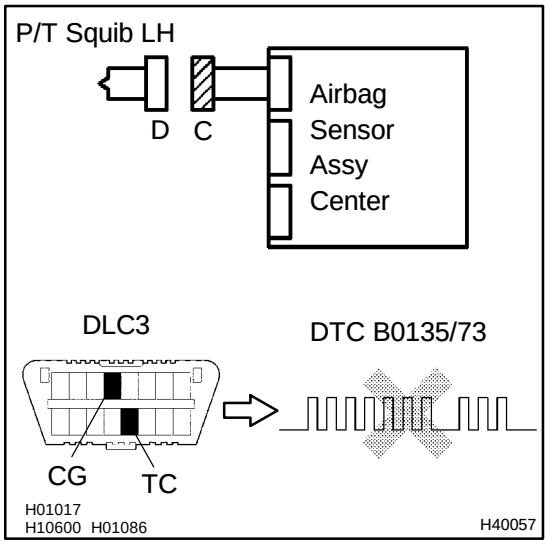


(a) Release the airbag activation prevention mechanism built in the connector of the connector "B" (See page 05–4).
(b) Measure the resistance between PL+ and PL– of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK AIR BAG SENSOR ASSY CENTER



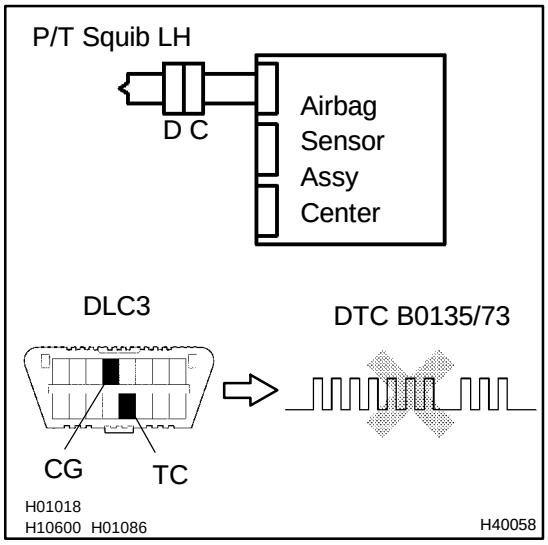
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B0135/73 is not output.

HINT:
Codes other than code B0135/73 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

4 CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0135/73 is not output.

HINT:
Codes other than code B0135/73 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC B0136/74 OPEN IN P/T SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib LH circuit consists of the airbag sensor assy center and the front seat outer belt assy LH (seat belt pretensioner LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0136/74 is recorded when an open circuit is detected in the P/T squib LH circuit.

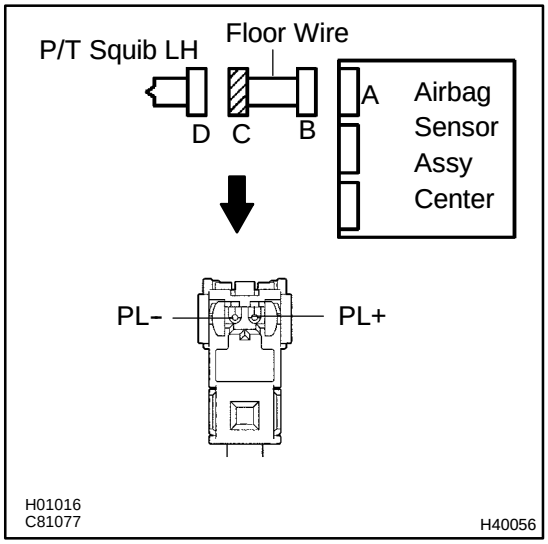
DTC No.	DTC Detecting Condition	Trouble Area
B0136/74	S Open circuit in PL+ wire harness or PL- wire harness of P/T squib LH S P/T squib LH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy LH (P/T squib LH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05-69.

INSPECTION PROCEDURE

1 CHECK FLOOR WIRE(P/T SQUIB LH CIRCUIT)

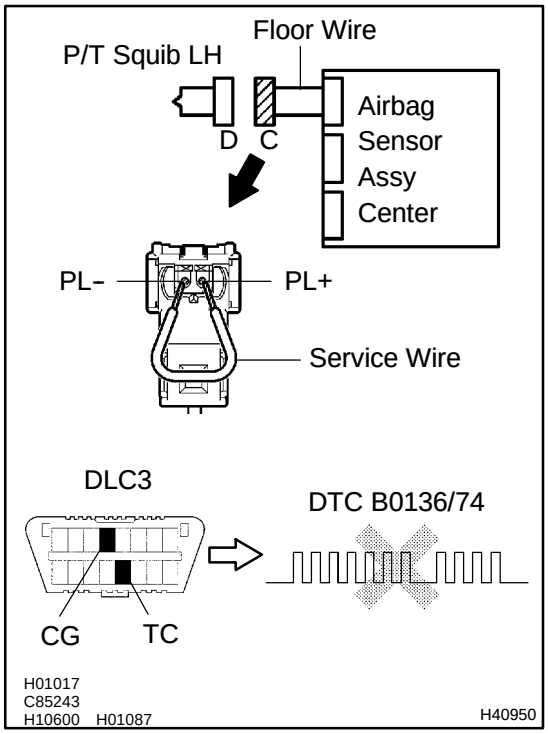


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy LH.
(d) Measure the resistance between PL+ and PL- of the connector "C".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PL+ and PL- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

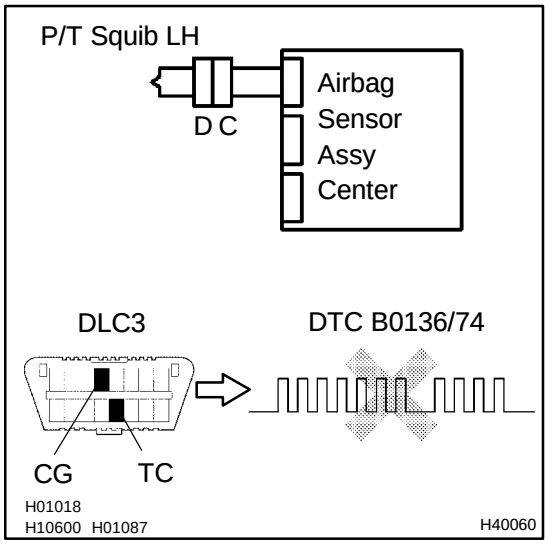
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0136/74 is not output.

HINT:
Codes other than code B0136/74 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy LH.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05 - 4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05–4).

OK:

DTC B0136/74 is not output.

HINT:

Codes other than code B0136/74 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0137/71	SHORT IN P/T SQUIB (LH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P/T squib LH circuit consists of the airbag sensor assy center and the front seat outer belt assy LH (seat belt pretensioner LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0137/71 is recorded when a short to ground is detected in the P/T squib LH circuit.

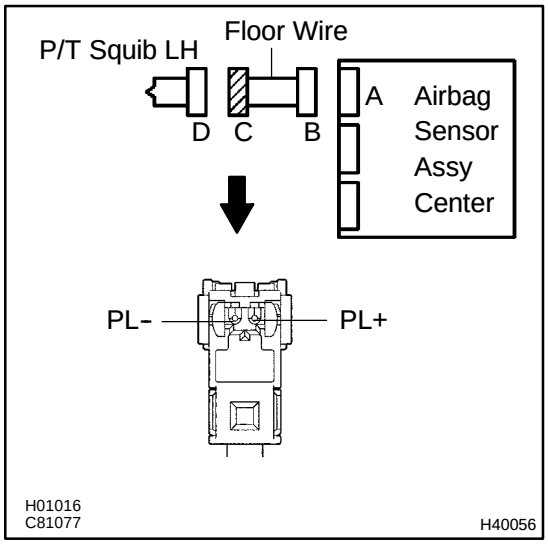
DTC No.	DTC Detecting Condition	Trouble Area
B0137/71	S Short circuit in P/T squib LH wire harness (to ground) S P/T squib LH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy LH (P/T squib LH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05–69.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(P/T SQUIB LH CIRCUIT)

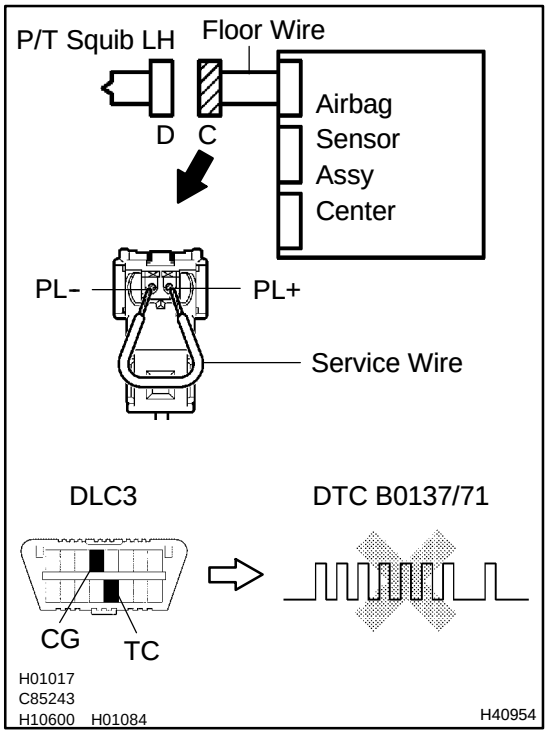


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy LH.
(d) Measure the resistance between the body ground and PL+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PL+ and PL- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

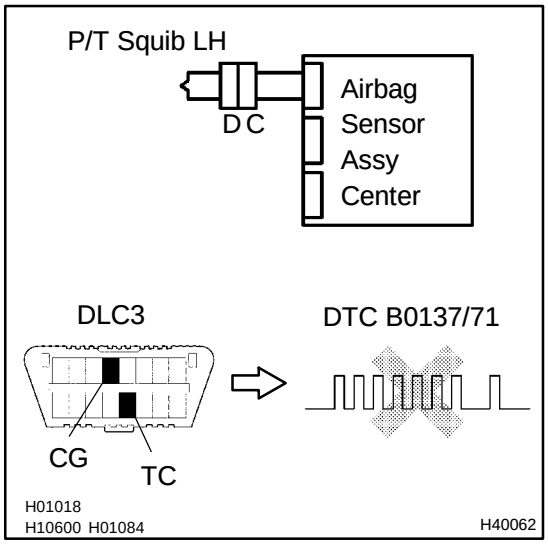
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B0137/71 is not output.

HINT:
Codes other than code B0137/71 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0137/71 is not output.

HINT:
Codes other than code B0137/71 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC B0138/72 SHORT IN P/T SQUIB (LH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib LH circuit consists of the airbag sensor assy center and the front seat outer belt assy LH (seat belt pretensioner LH).
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B0138/72 is recorded when a short to B+ is detected in the P/T squib LH circuit.

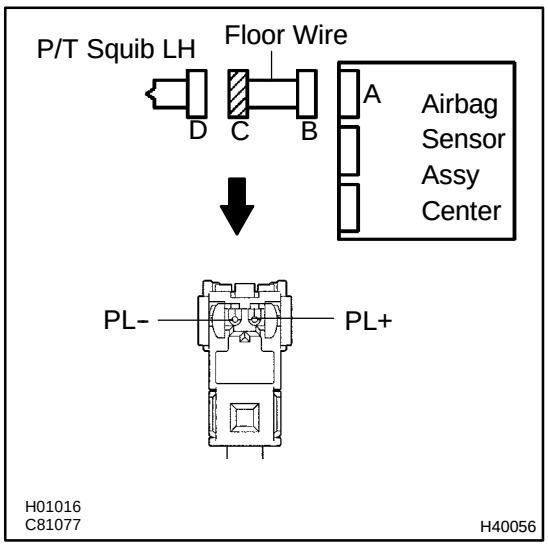
DTC No.	DTC Detecting Condition	Trouble Area
B0138/72	S Short circuit in P/T squib LH wire harness (to B+) S P/T squib LH malfunction S Airbag sensor assy center malfunction	S Front seat outer belt assy LH (P/T squib LH) S Airbag sensor assy center S Floor wire

WIRING DIAGRAM

See page 05–69.

INSPECTION PROCEDURE

1 CHECK FLOOR WIRE(P/T SQUIB LH CIRCUIT)

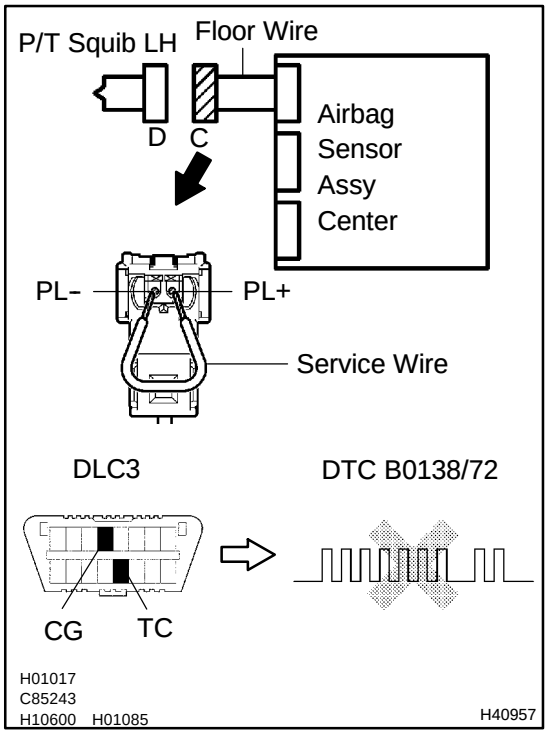


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the front seat outer belt assy LH.
(d) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and PL+ of the connector ”C”.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect PL+ and PL– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

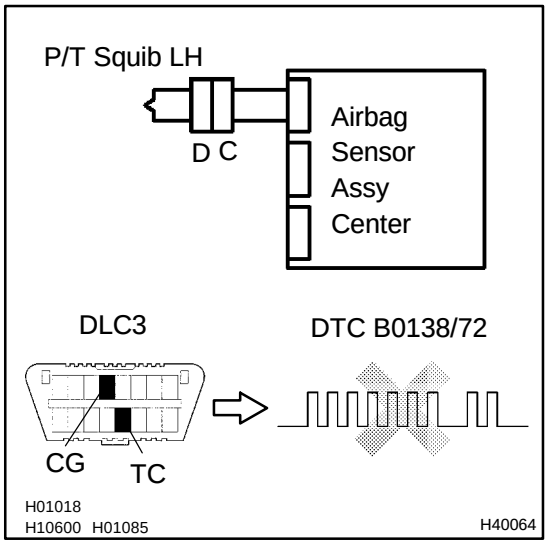
(e) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05–4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05–4).
OK:
DTC B0138/72 is not output.

HINT:
Codes other than code B0138/72 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front seat outer belt assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B0138/72 is not output.

HINT:
Codes other than code B0138/72 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B1100/31	AIRBAG SENSOR ASSY CENTER MALFUNCTION

CIRCUIT DESCRIPTION

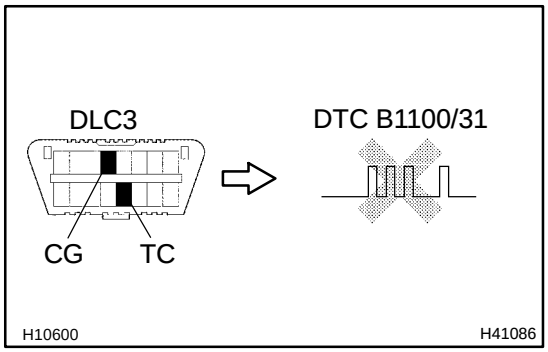
The airbag sensor assy center consists of the airbag sensor, the safing sensor, the drive circuit, the diagnosis circuit and the ignition control, etc.
If the airbag sensor assy center receives signals from the airbag sensor, it judges whether or not the SRS should be activated.
DTC B1100/31 is recorded when a malfunction in the airbag sensor assy center is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1100/31	S Airbag sensor assy center malfunction S Half connection detection malfunction	S Airbag sensor assy center S Airbag sensor assy center connector

HINT:
When a malfunction code other than code B1100/31 is displayed at the same time, first repair the malfunction indicated by the malfunction code other than code B1100/31.

INSPECTION PROCEDURE

1	CHECK DTC



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B1100/31 is not output.

HINT:
Codes other than code B1100/31 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check the connection of the airbag sensor assy center connectors.
OK:
The connectors are connected.

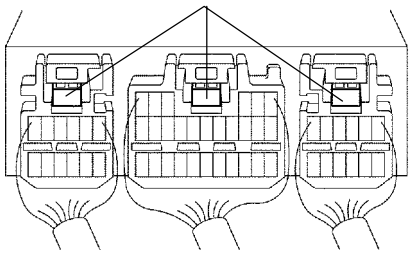
NG → **Go to step 4**

OK

3	PERFORM A VISUAL CHECK OF THE DISCONNECTION DETECTION PIN

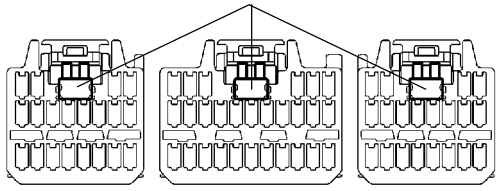
w/o Side Airbag:

Disconnection Detection Pin



w/ Side Airbag:

Disconnection Detection Pin



C83399
C81406
H41456

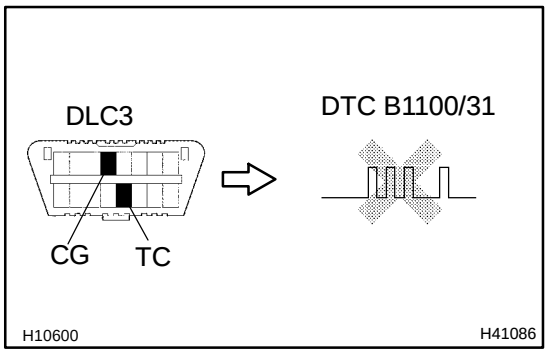
(a) Disconnect the connectors from the airbag sensor assy center.
(b) Check that the disconnection detection pin of the connector.

HINT:
Compare the one connector with the other 2 connectors.
OK:
No deformation is identified.

NG → **REPAIR OR REPLACE AIRBAG SENSOR ASSY CENTER CONNECTOR**

OK

4	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connectors to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B1100/31 is not output.

HINT:
Codes other than code B1100/31 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1140/32	SIDE AIRBAG SENSOR ASSY (RH) MALFUNCTION

CIRCUIT DESCRIPTION

The side airbag sensor assy RH consists of the diagnosis circuit and the lateral deceleration sensor, etc. If the airbag sensor assy center receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.

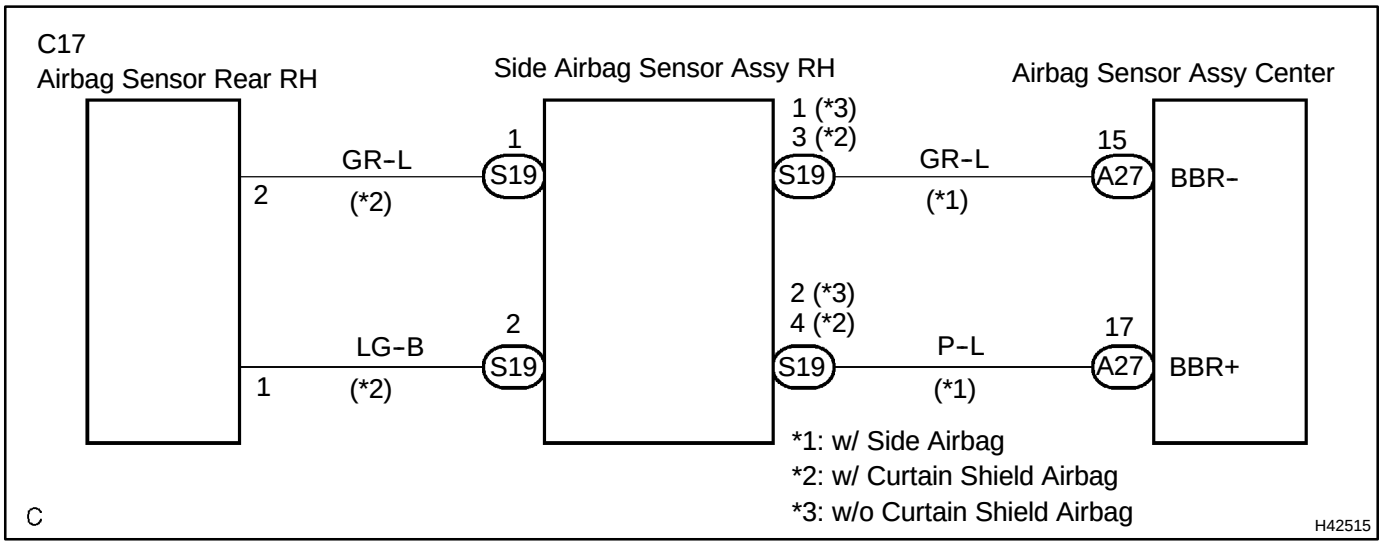
DTC B1140/32 is recorded when a malfunction in the side airbag sensor assy RH is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	ŠShort circuit in side airbag sensor assy RH wire harness (to ground) ŠShort circuit in side airbag sensor assy RH wire harness (to B+) ŠShort circuit between BBR+ wire harness and BBR- wire harness of side airbag sensor assy RH ŠOpen circuit in BBR+ wire harness or BBR- wire harness of side airbag sensor assy RH ŠSide airbag sensor assy RH malfunction ŠAirbag sensor assy center malfunction	ŠSide airbag sensor assy RH ŠAirbag sensor rear RH (w/ Curtain shield airbag) ŠAirbag sensor assy center ŠFloor wire

HINT:

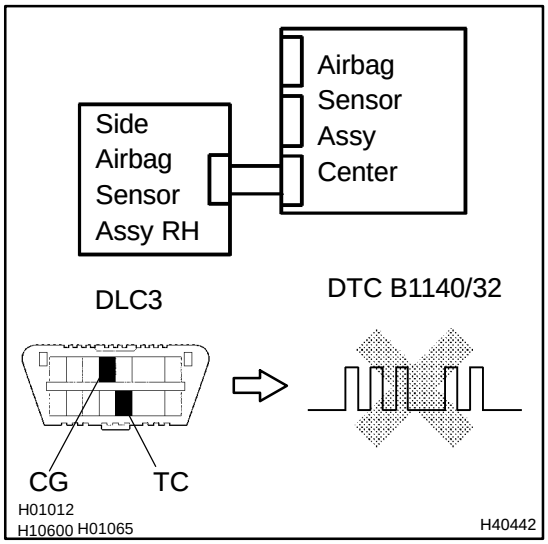
DTC B1140/32 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B1140/32 is not output.

HINT:
Codes other than code B1140/32 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

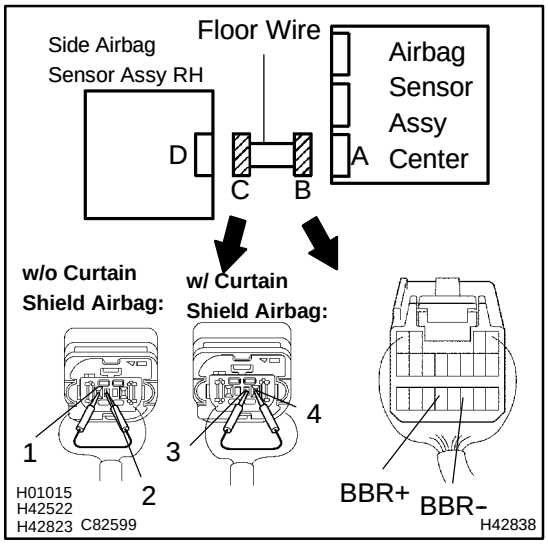
2	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the airbag sensor assy center and the side airbag sensor assy RH.
OK:
The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

3 CHECK FLOOR WIRE(OPEN)



(a) Disconnect the connectors from the airbag sensor assy center and the side airbag sensor assy RH.

(b) w/o Curtain shield airbag:
Using a service wire, connect 1 and 2 of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(c) w/ Curtain shield airbag:
Using a service wire, connect 3 and 4 of the connector "C".

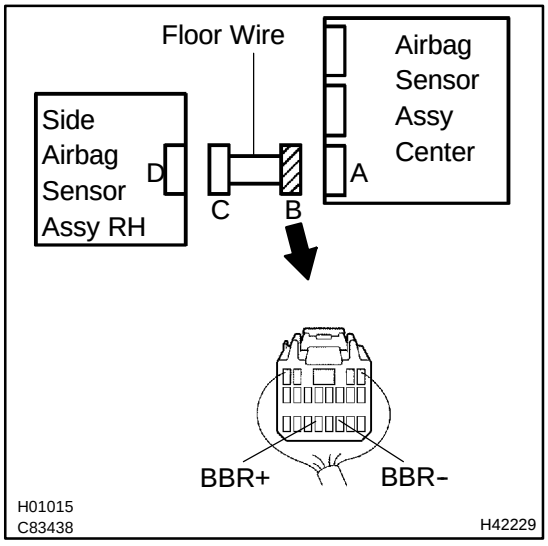
NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(d) Measure the resistance between BBR+ and BBR- of the connector "B".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(SHORT)



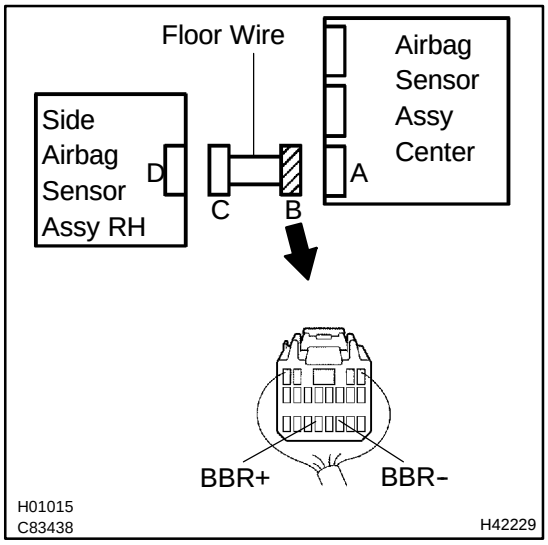
(a) Disconnect the service wire from the connector "C".

(b) Measure the resistance between BBR+ and BBR- of the connector "B".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5	CHECK FLOOR WIRE(TO B+)



(a) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.

(b) Measure the voltage between the body ground and each of BBR+ and BBR- of the connector "B".

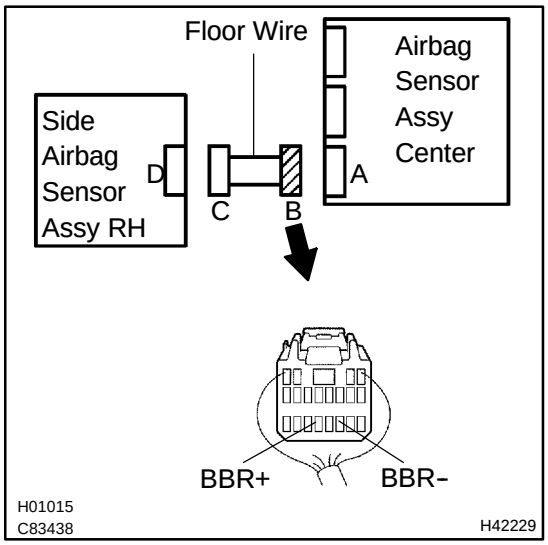
OK:

Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6	CHECK FLOOR WIRE(TO GROUND)



(a) Turn the ignition switch to the LOCK position.

(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

(c) Measure the resistance between the body ground and each of BBR+ and BBR- of the connector "B".

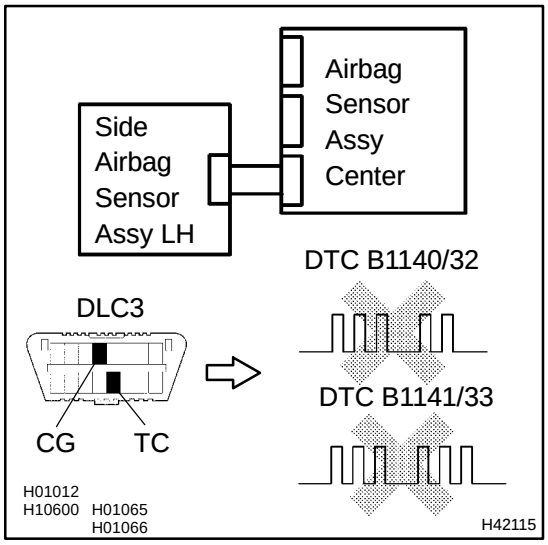
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK SIDE AIR BAG SENSOR ASSY RH



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Interchange the side airbag sensor assy RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
A: DTC B1140/32 is not output.
B: DTC B1141/33 is not output.

NG:A → **Go to step 8**

NG:B → **REPLACE SIDE AIR BAG SENSOR ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

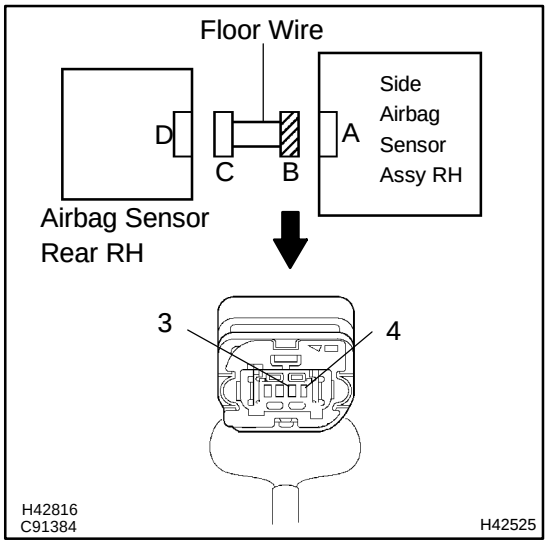
8	CHECK VEHICLE CONDITION

(a) Check the vehicle eqquipment.
OK:
A: w/ Curtain sheild airbag
B: w/o Curtain shield airbag

B → **REPLACE AIR BAG SENSOR ASSY CENTER**

A

9	CHECK FLOOR WIRE(SHORT)

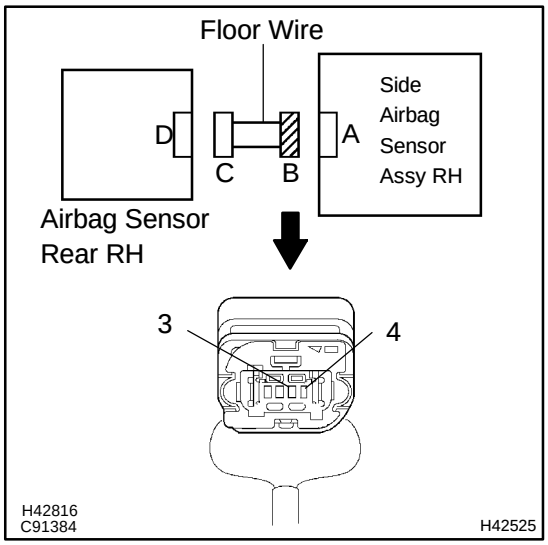


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the side airbag sensor assy RH and the airbag sensor rear RH.
(d) Measure the resistance between 3 and 4 of the connector "B".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

10	CHECK FLOOR WIRE(TO B+)

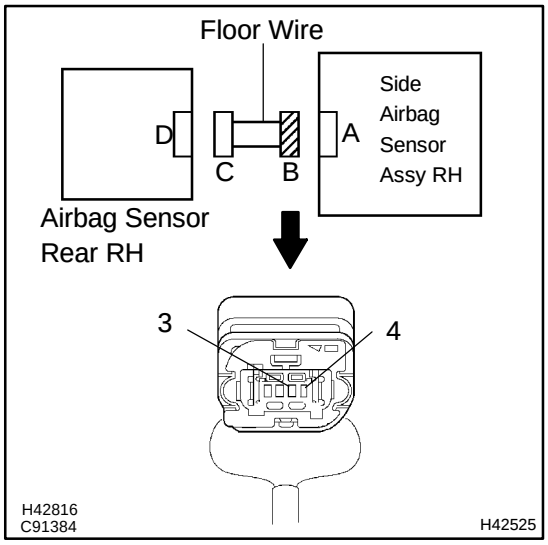


(a) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(b) Measure the voltage between the body ground and each of 3 and 4 of the connector "B".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

11 CHECK FLOOR WIRE(TO GROUND)

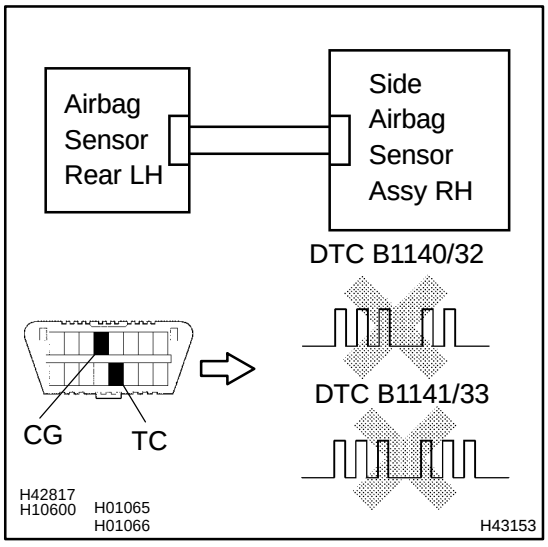


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance between the body ground and each of 3 and 4 of the connector "B".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

12 CHECK AIR BAG SENSOR REAR RH



(a) Connect the connector to the airbag sensor assy center.
(b) Interchange the airbag sensor rear RH with LH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
A: DTC B1140/32 is not output.
B: DTC B1141/33 is not output.

NG:A → **REPLACE AIR BAG SENSOR ASSY CENTER**

NG:B → **REPLACE AIR BAG SENSOR REAR RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1141/33	SIDE AIRBAG SENSOR ASSY (LH) MALFUNCTION

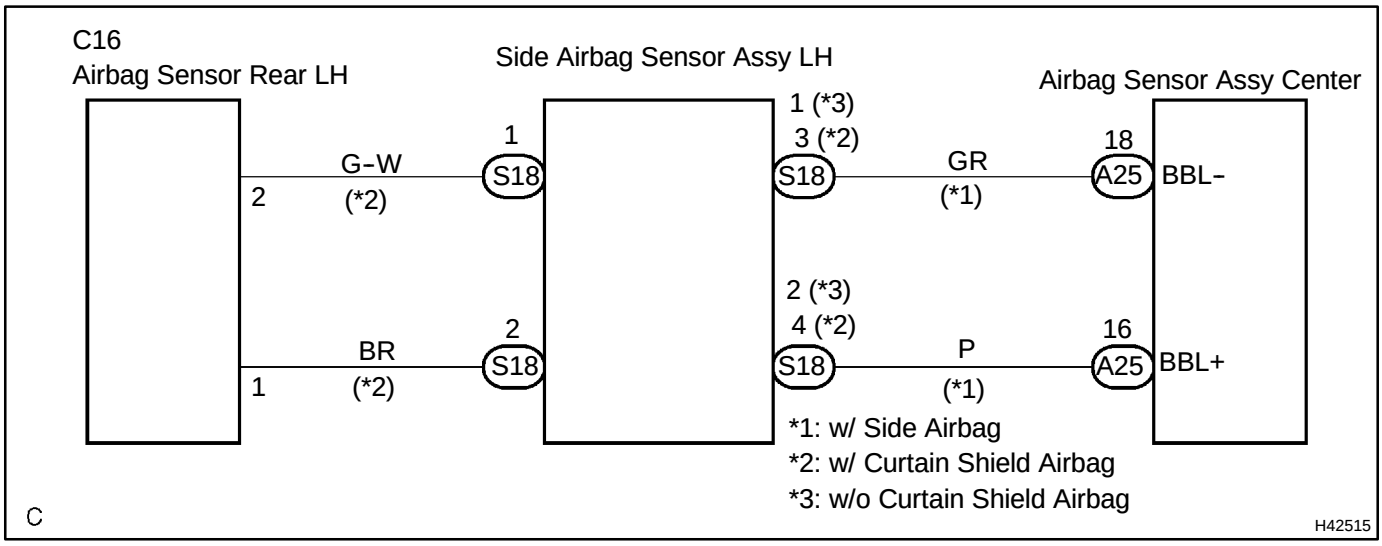
CIRCUIT DESCRIPTION

The side airbag sensor assy LH consists of the diagnosis circuit and the lateral deceleration sensor, etc. If the airbag sensor assy center receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1141/33 is recorded when a malfunction in the side airbag sensor assy LH is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	S Short circuit in side airbag sensor assy LH wire harness (to ground) S Short circuit in side airbag sensor assy LH wire harness (to B+) S Short circuit betwen BBL+ wire harness and BBL- wire harness of side airbag sensor assy LH S Open circuit in BBL+ wire harness or BBL- wire harness of side airbag sensor assy LH S Side airbag sensor assy LH malfunction S Airbag sensor assy center malfunction	S Side airbag sensor assy LH S Airbag sensor rear LH S Airbag sensor assy center S Floor wire

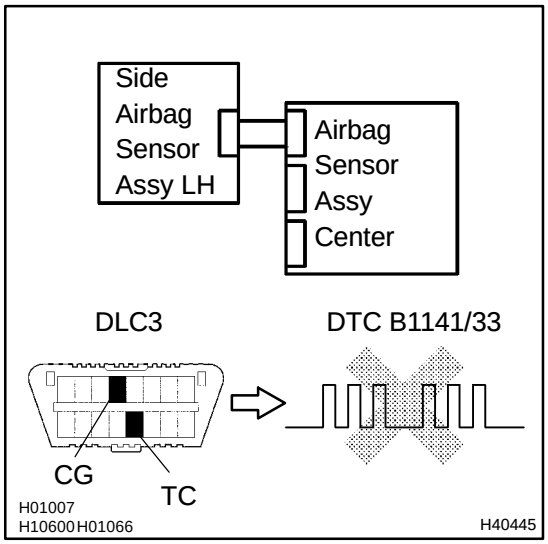
HINT:
DTC B1141/33 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B1141/33 is not output.

HINT:
Codes other than code B1141/33 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

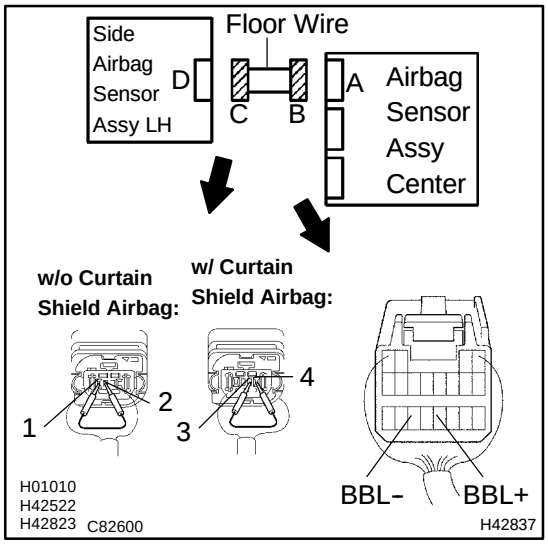
2	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the airbag sensor assy center and the side airbag sensor assy LH.
OK:
The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

3 CHECK FLOOR WIRE(OPEN)



(a) Disconnect the connectors from the airbag sensor assy center and the side airbag sensor assy RH.

(b) w/ Curtain shield airbag:
Using a service wire, connect 1 and 2 of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(c) w/o Curtain shield airbag:
Using a service wire, connect 3 and 4 of the connector "C".

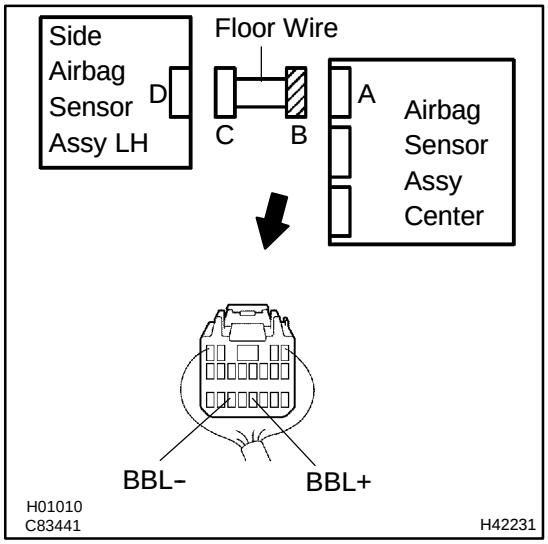
NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(d) Measure the resistance between BBL+ and BBL− of the connector "B".
OK:
Resistance: Below 1 Ω

NG	REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK FLOOR WIRE(SHORT)



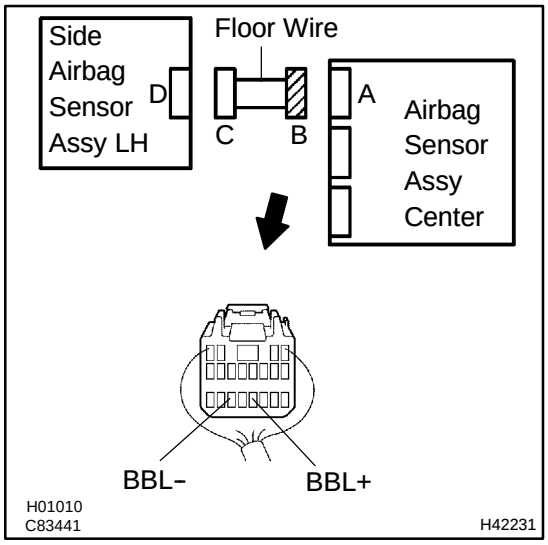
(a) Disconnect the service wire from the connector "C".

(b) Measure the resistance between the body ground and each of BBL+ and BBL− of the connector "B".
OK:
Resistance: 1 MΩ or Higher

NG	REPAIR OR REPLACE FLOOR WIRE

OK

5	CHECK FLOOR WIRE(TO B+)



(a) Connect the negative (−) terminal cable to the battery, and turn the ignition switch to the ON position.

(b) Measure the voltage between the body ground and each of BBL+ and BBL− of the connector "B".

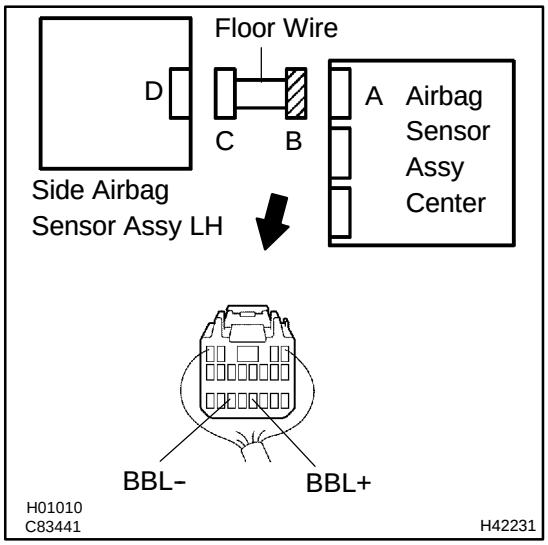
OK:

Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6	CHECK FLOOR WIRE(TO GROUND)



(a) Turn the ignition switch to the LOCK position.

(b) Disconnect the negative (−) terminal cable from the battery, and wait for at least 90 seconds.

(c) Measure the resistance between the body ground and each of BBL+ and BBL− of the connector "B".

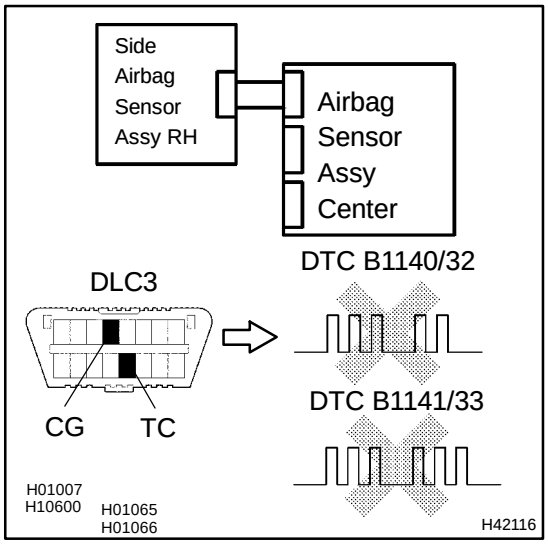
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK SIDE AIR BAG SENSOR ASSY LH



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Interchange the side airbag sensor assy RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
A: DTC B1140/32 is not output.
B: DTC B1141/33 is not output.

NG:A → **REPLACE SIDE AIR BAG SENSOR ASSY LH**

NG:B → **Go to step 8**

OK

USE SIMULATION METHOD TO CHECK

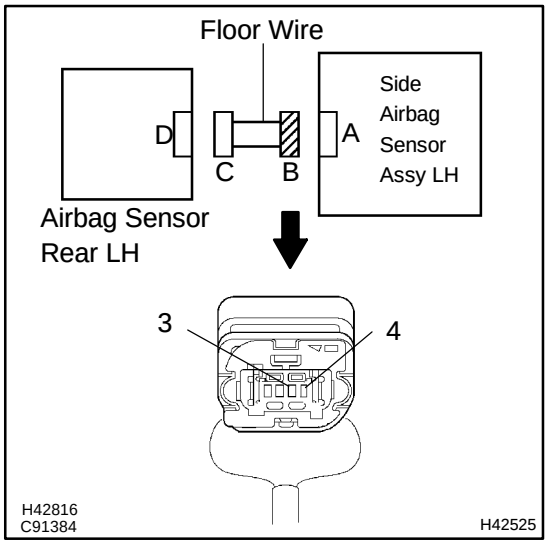
8	CHECK VEHICLE CONDITION

(a) Check the vehicle eqquipment.
OK:
A: w/ Curtain sheild airbag
B: w/o Curtain shield airbag

B → **REPLACE AIR BAG SENSOR ASSY CENTER**

A

9	CHECK FLOOR WIRE(SHORT)



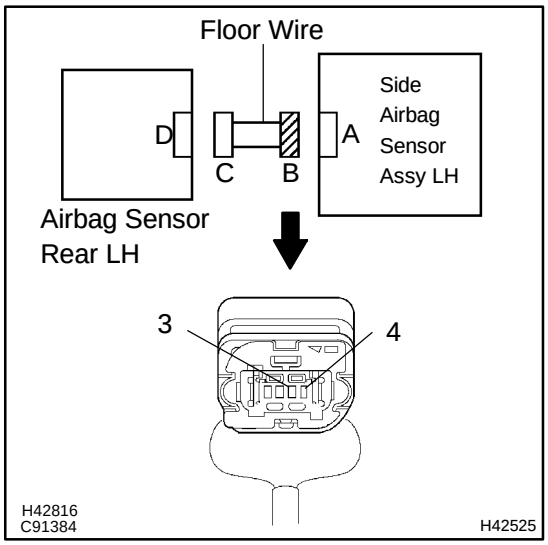
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the side airbag sensor assy LH and the airbag sensor rear LH.
(d) Measure the resistance between 3 and 4 of the connector "B".

OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

10	CHECK FLOOR WIRE(TO GROUND)



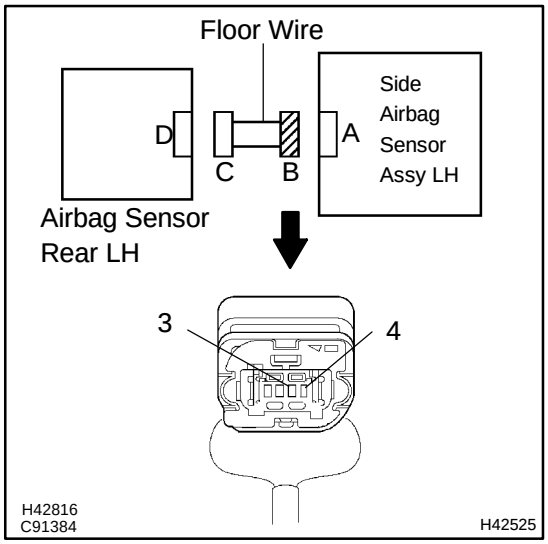
(a) Measure the resistance between the body ground and each of 3 and 4 of the connector "B".

OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

11 CHECK FLOOR WIRE(TO B+)



(a) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.

(b) Measure the voltage between the body ground and each of 3 and 4 of the connector "B".

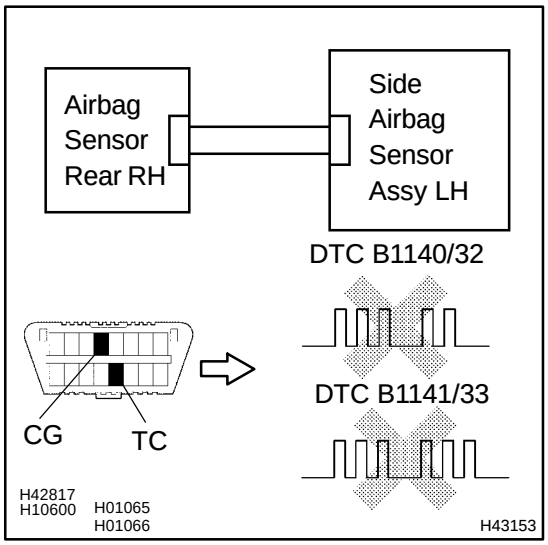
OK:

Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

12 CHECK AIR BAG SENSOR REAR LH



(a) Connect the connector to the airbag sensor assy center.

(b) Interchange the airbag sensor rear RH with LH and connect the connectors to them.

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.

(e) Clear the stored DTCs in the memory (See page 05-4).

(f) Turn the ignition switch to the LOCK position.

(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.

(h) Check the DTCs (See page 05-4).

OK:

A: DTC B1140/32 is not output.

B: DTC B1141/33 is not output.

NG:A → **REPLACE AIR BAG SENSOR REAR LH**

NG:B → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1154/38	AIRBAG SENSOR REAR (RH) MALFUNCTION

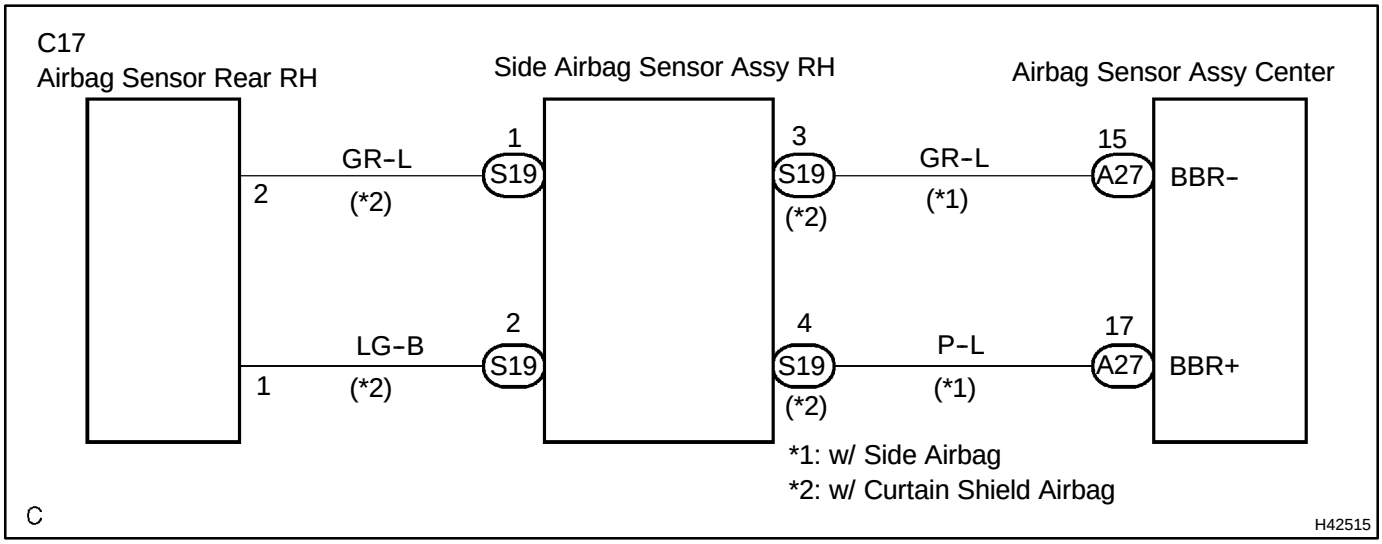
CIRCUIT DESCRIPTION

The airbag sensor rear RH consists of the diagnosis circuit and lateral deceleration sensor, etc.
If the airbag sensor assy center receives the signal from the lateral deceleration sensor signal in the airbag sensor rear RH, it judges whether or not the SRS should be activated.
DTC B1154/38 is recorded when a malfunction in the airbag sensor rear RH is detected.

DTC No.	DTC Detection Condition	Trouble Area
B1154/38	S Open circuit in BCR+ wire harness or BCR- wire harness of airbag sensor rear RH S Airbag sensor rear RH malfunction S Side airbag sensor assy RH malfunction S Airbag sensor assy center malfunction	S Airbag sensor rear RH S Side airbag sensor assy RH S Airbag sensor assy center S Floor wire

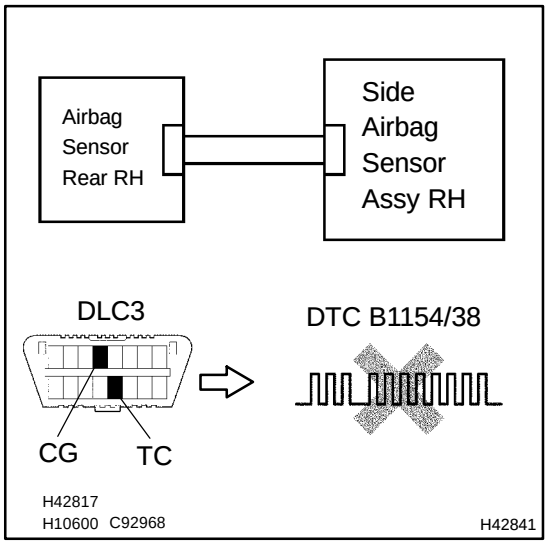
HINT:
DTC B1154/38 is indicated only for the vehicle equipped with the side airbag and curtain shield airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC B1154/38 is not output.

HINT:
Codes other than code B1154/38 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

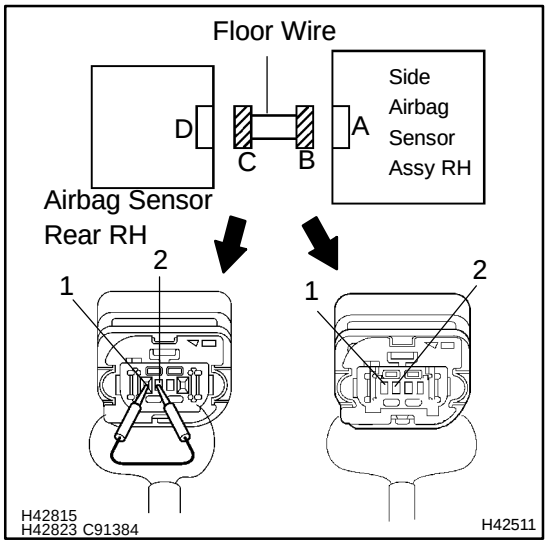
2	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the side airbag sensor assy RH and the airbag sensor rear RH.
OK:
The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

3 CHECK FLOOR WIRE(OPEN)



(a) Disconnect the connectors from the side airbag sensor assy RH and the airbag sensor rear RH.
(b) Using a service wire, connect 1 and 2 of the connector "C".

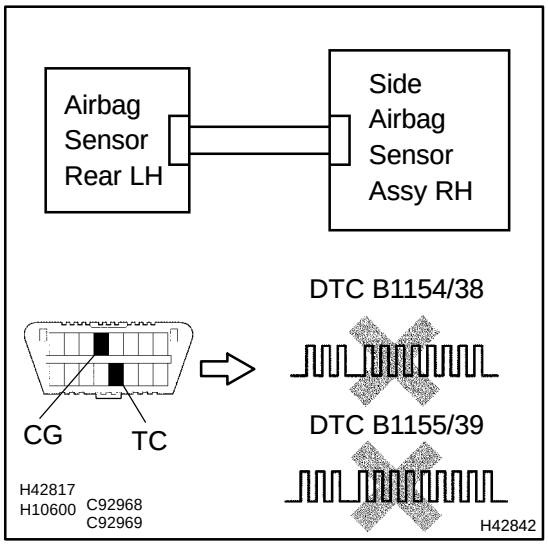
NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(c) Measure the resistance between 1 and 2 of the connector "B".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK AIR BAG SENSOR REAR RH



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the side airbag sensor assy RH.
(d) Interchange the airbag sensor rear RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
A: DTC B1154/38 is not output.
B: DTC B1155/39 is not output.

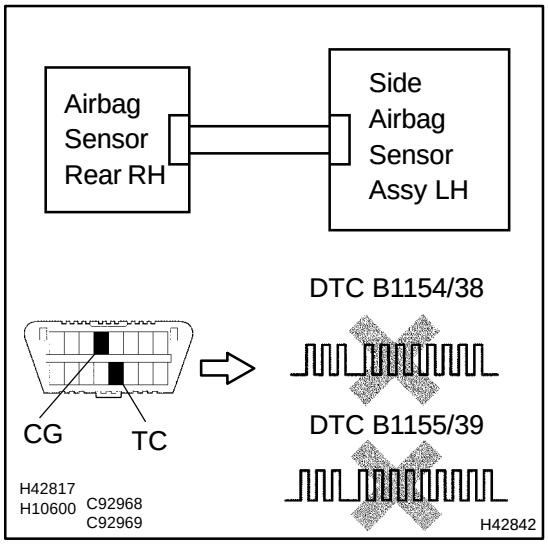
NG:A → **Go to step 5**

NG:B → **REPLACE AIR BAG SENSOR REAR RH**

OK

USE SIMULATION METHOD TO CHECK

5 CHECK SIDE AIR BAG SENSOR ASSY RH



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor assy RH with LH and connect the connectors to them.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:
A: DTC B1154/38 is not output.
B: DTC B1155/39 is not output.

NG:A → **REPLACE AIR BAG SENSOR ASSY CENTER**

NG:B → **REPLACE SIDE AIR BAG SENSOR ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1155/39	AIRBAG SENSOR REAR (LH) MALFUNCTION

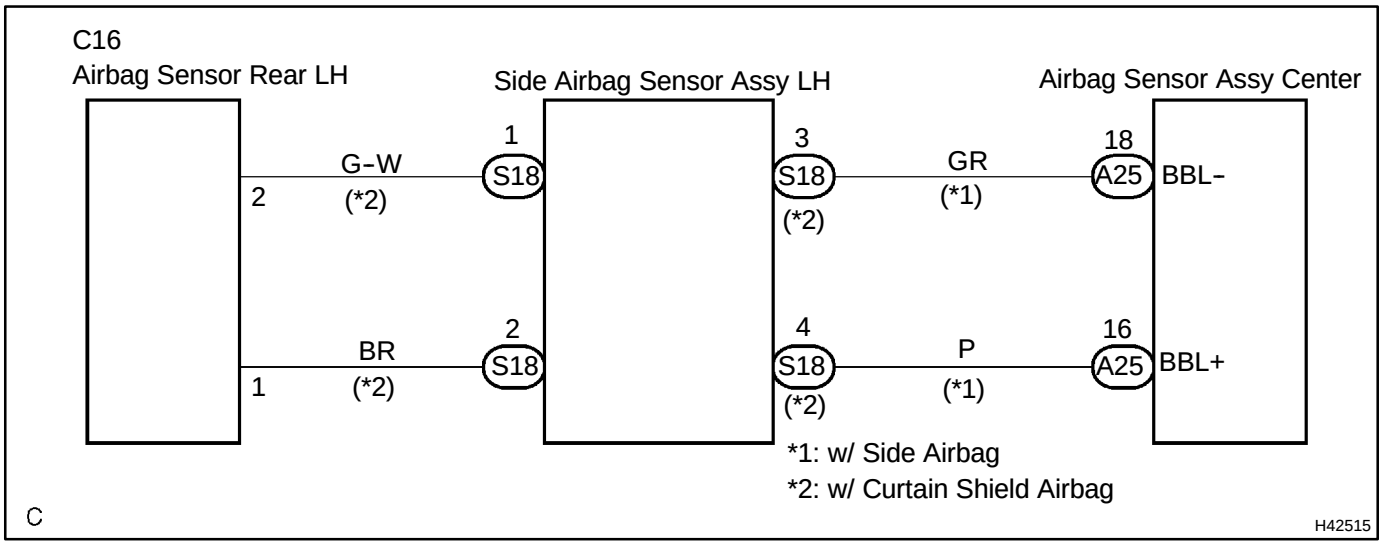
CIRCUIT DESCRIPTION

The airbag sensor rear LH consists of the diagnosis circuit and lateral deceleration sensor, etc.
If the airbag sensor assy center receives the signal from the lateral deceleration sensor signal in the airbag sensor rear LH, it judges whether or not the SRS should be activated.
DTC B1155/39 is recorded when a malfunction in the airbag sensor rear LH is detected.

DTC No.	DTC Detection Condition	Trouble Area
B1155/39	S Open circuit in BCL+ wire harness or BCL- wire harness of airbag sensor rear LH S Airbag sensor rear LH malfunction S Side airbag sensor assy LH malfunction S Airbag sensor assy center malfunction	S Airbag sensor rear LH S Side airbag sensor assy LH S Airbag sensor assy center S Floor wire

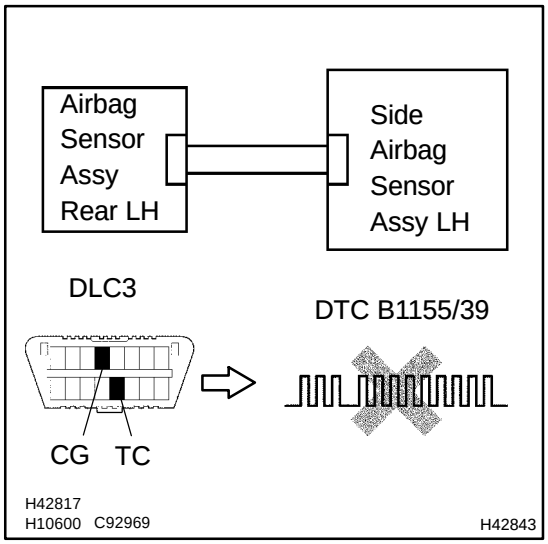
HINT:
DTC B1155/39 is indicated only for the vehicle equipped with the side airbag and curtain shield airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B1155/39 is not output.

HINT:
Codes other than code B1155/39 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

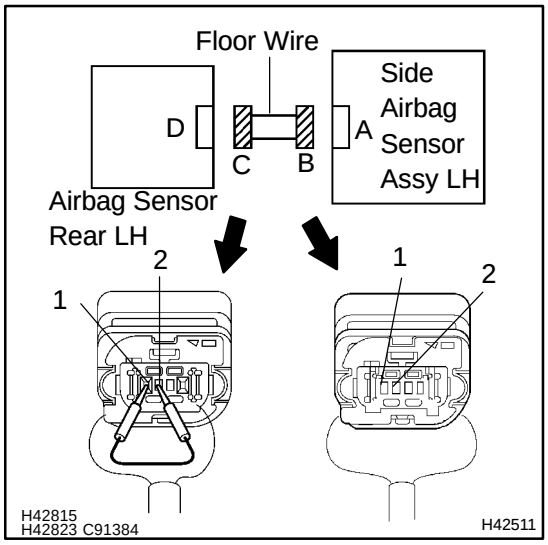
2	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–)terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the side airbag sensor assy LH and the airbag sensor rear LH.
OK:
The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

3 CHECK FLOOR WIRE(OPEN)



(a) Disconnect the connectors from the side airbag sensor assy LH and the airbag sensor rear LH.
(b) Using a service wire, connect 1 and 2 of the connector "C".

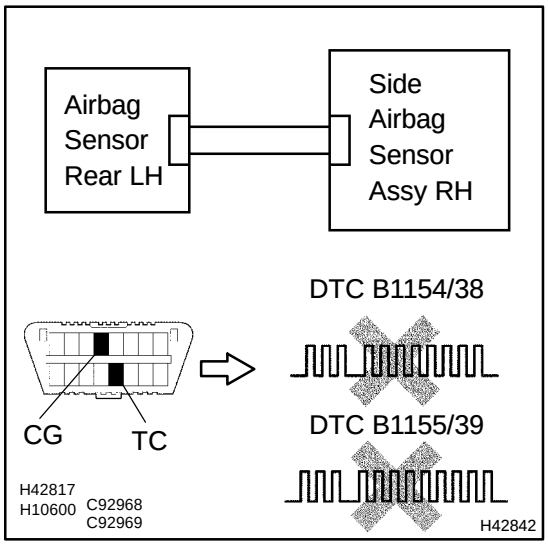
NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

(c) Measure the resistance between 1 and 2 of the connector "B".
OK:
Resistance: Below 1 Ω

NG	REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK AIR BAG SENSOR REAR LH



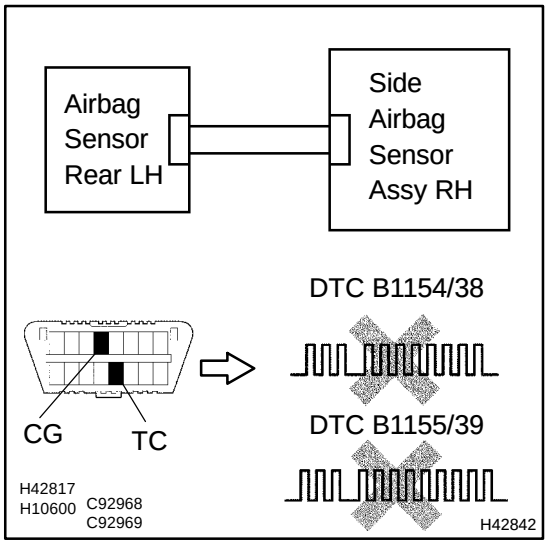
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the side airbag sensor assy RH.
(d) Interchange the airbag sensor rear RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
A: DTC B1154/38 is not output.
B: DTC B1155/39 is not output.

NG:A	REPLACE AIR BAG SENSOR REAR LH
NG:B	Go to step 5

OK

USE SIMULATION METHOD TO CHECK

5 CHECK SIDE AIR BAG SENSOR ASSY LH



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor assy RH with LH and connect the connectors to them.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:
A: DTC B1154/38 is not output.
B: DTC B1155/39 is not output.

NG:A → **REPLACE SIDE AIR BAG SENSOR ASSY LH**

NG:B → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1156/15	FRONT AIRBAG SENSOR (RH) MALFUNCTION

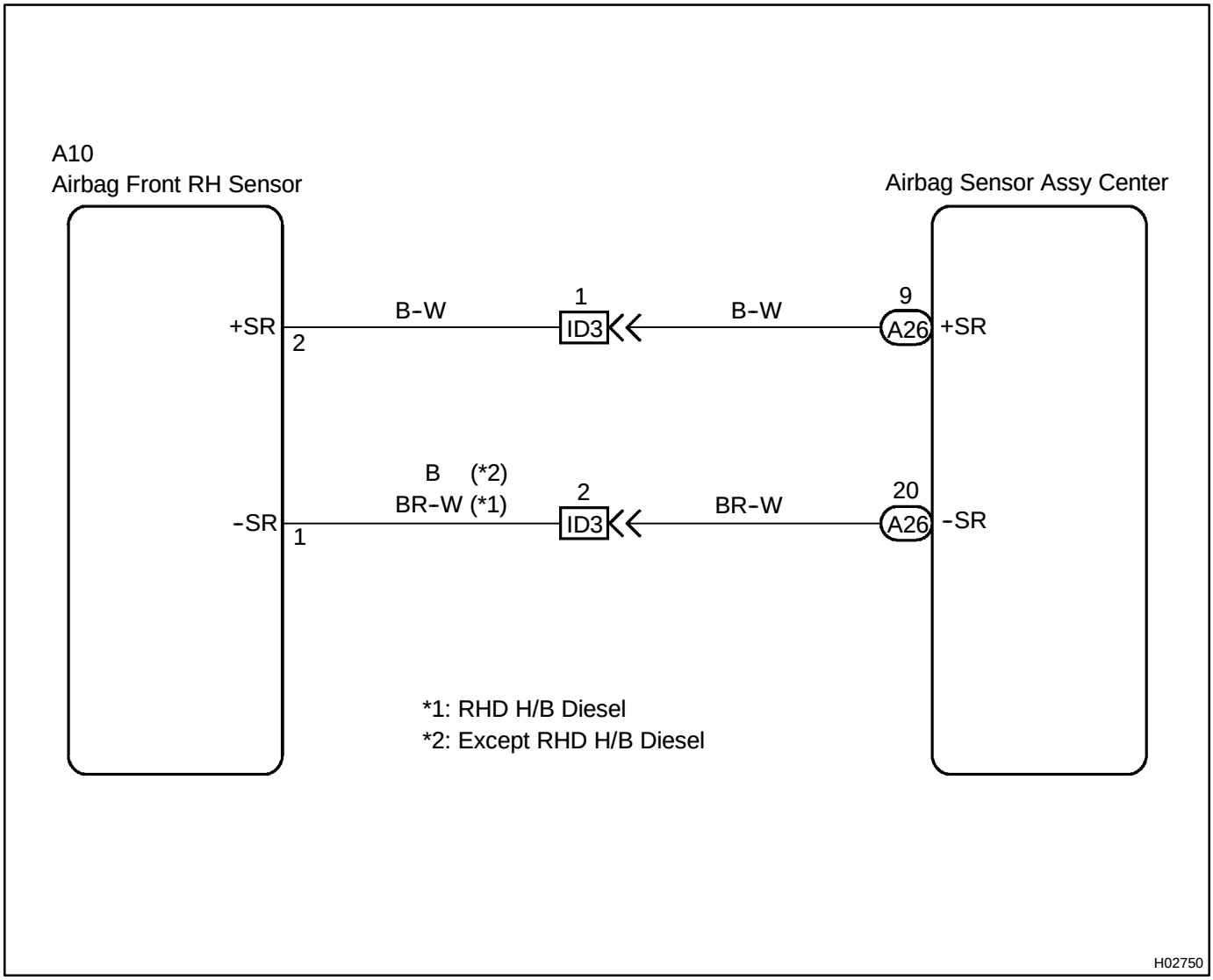
DTC	B1157/15	FRONT AIRBAG SENSOR (RH) MALFUNCTION

CIRCUIT DESCRIPTION

The airbag front RH sensor circuit consists of the airbag sensor assy center and the airbag front RH sensor. DTC B1156/15 or B1157/15 is recorded when a malfunction is detected in the airbag front RH sensor circuit.

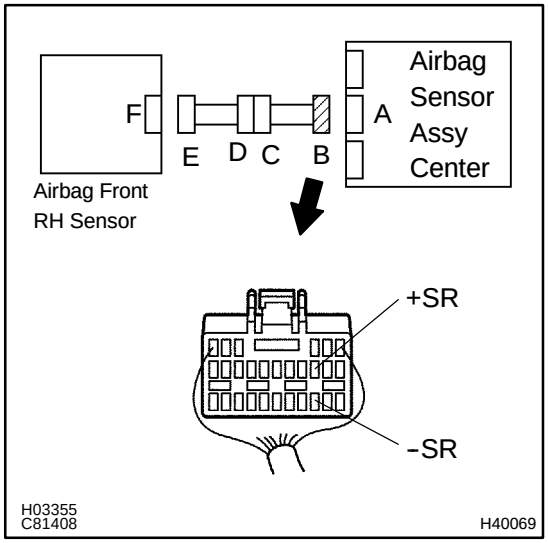
DTC No.	DTC Detecting Condition	Trouble Area
B1156/B1157/15	S Airbag front RH sensor malfunction	S Airbag front RH sensor S Airbag sensor assy center S Instrument panel wire S Engine room main wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER - AIRBAG FRONT RH SENSOR)

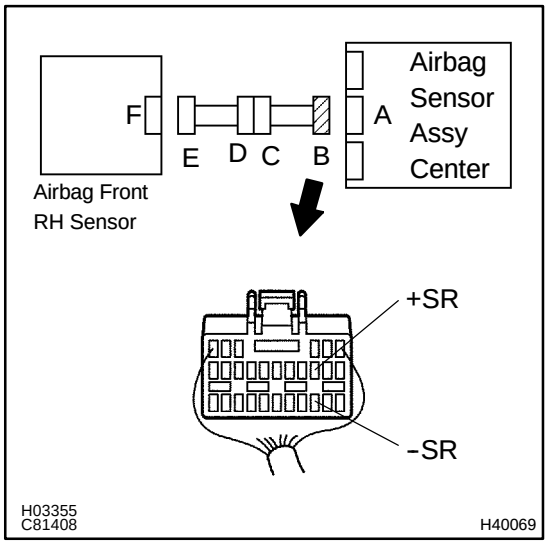


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors between the airbag sensor assy center and the airbag front RH sensor.
(d) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and each of +SR and –SR of the connector "B".
OK:
Voltage: Below 1 V

NG → **Go to step 6**

OK

2	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO GROUND)(AIRBAG SENSOR ASSY - AIRBAG FRONT RH SENSOR)

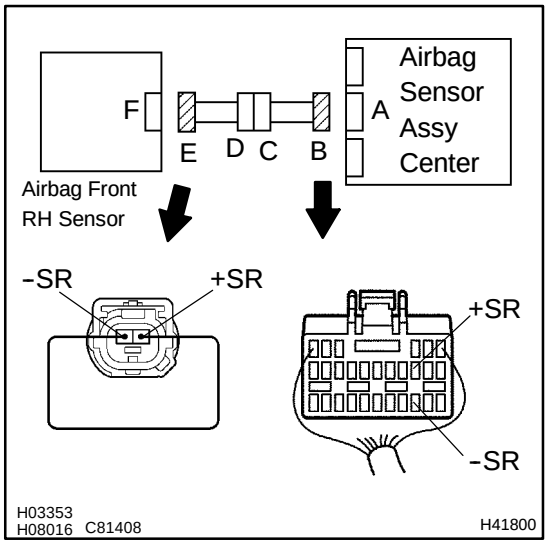


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance between the body ground and each of +SR and –SR of the connector "B".
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 7**

OK

3	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (OPEN)(AIRBAG SENSOR ASSY CENTER - AIRBAG FRONT RH SENSOR)



(a) Using a service wire, connect +SR and -SR of the connector "E".

(b) Measure the resistance between +SR and -SR of the connector "B".

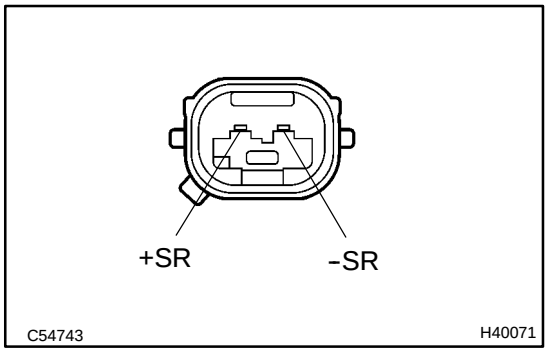
OK:

Resistance: Below 1 Ω

NG → **Go to step 8**

OK

4	INSPECT AIR BAG FRONT RH SENSOR



(a) Measure the resistance between +SR and -SR the airbag front RH sensor connector.

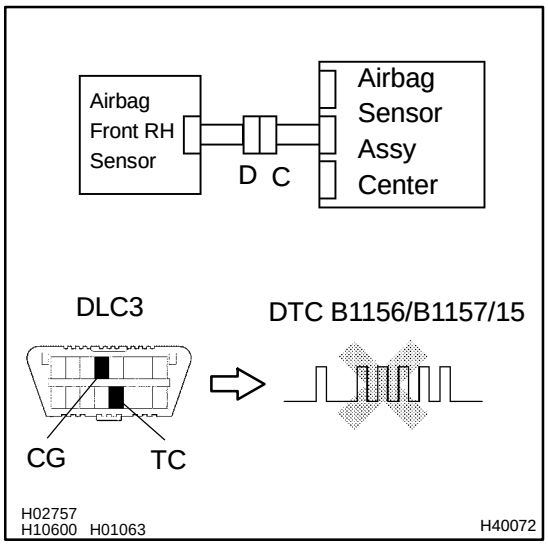
OK:

Resistance: 820 Ω

NG → **REPLACE AIR BAG FRONT RH SENSOR**

OK

5 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connectors to the airbag front RH sensor and airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 20 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 20 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B1156/15 or B1157/15 is not output.

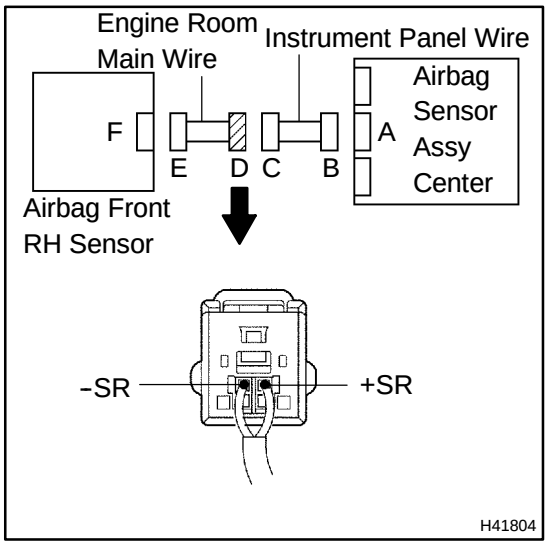
HINT:
Codes other than code B1156/15 or B1157/15 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

6 CHECK ENGINE ROOM MAIN WIRE(TO B+)



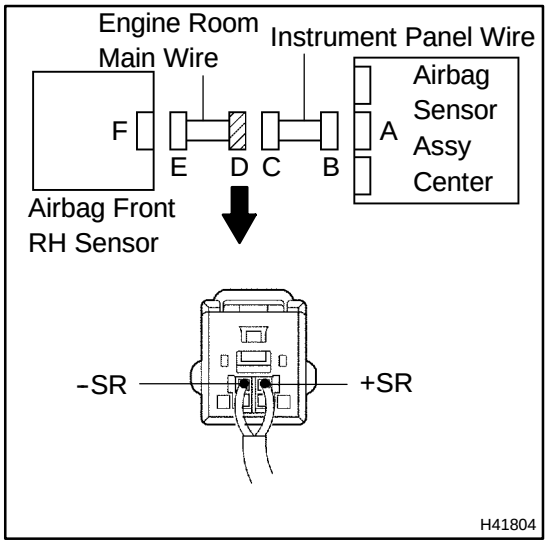
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and each of +SR and -SR of the connector "D".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

7 CHECK ENGINE ROOM MAIN WIRE(TO GROUND)



(a) Disconnect the engine room main wire connector from the instrument panel wire.

(b) Measure the resistance between the body ground and each of +SR and -SR of the connector "D".

OK:

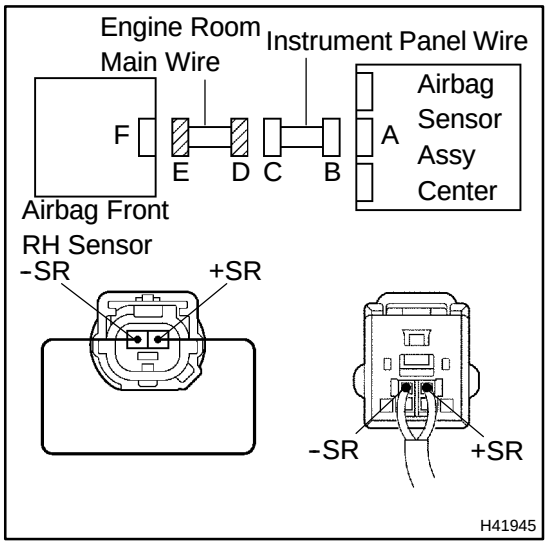
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

8 CHECK ENGINE ROOM MAIN WIRE(OPEN)



(a) Disconnect the engine room main wire connector from the instrument panel wire.

(b) Using a service wire, connect +SR and -SR of the connector "E".

(c) Measure the resistance between +SR and -SR of the connector "D".

OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1158/16	FRONT AIRBAG SENSOR (LH) MALFUNCTION

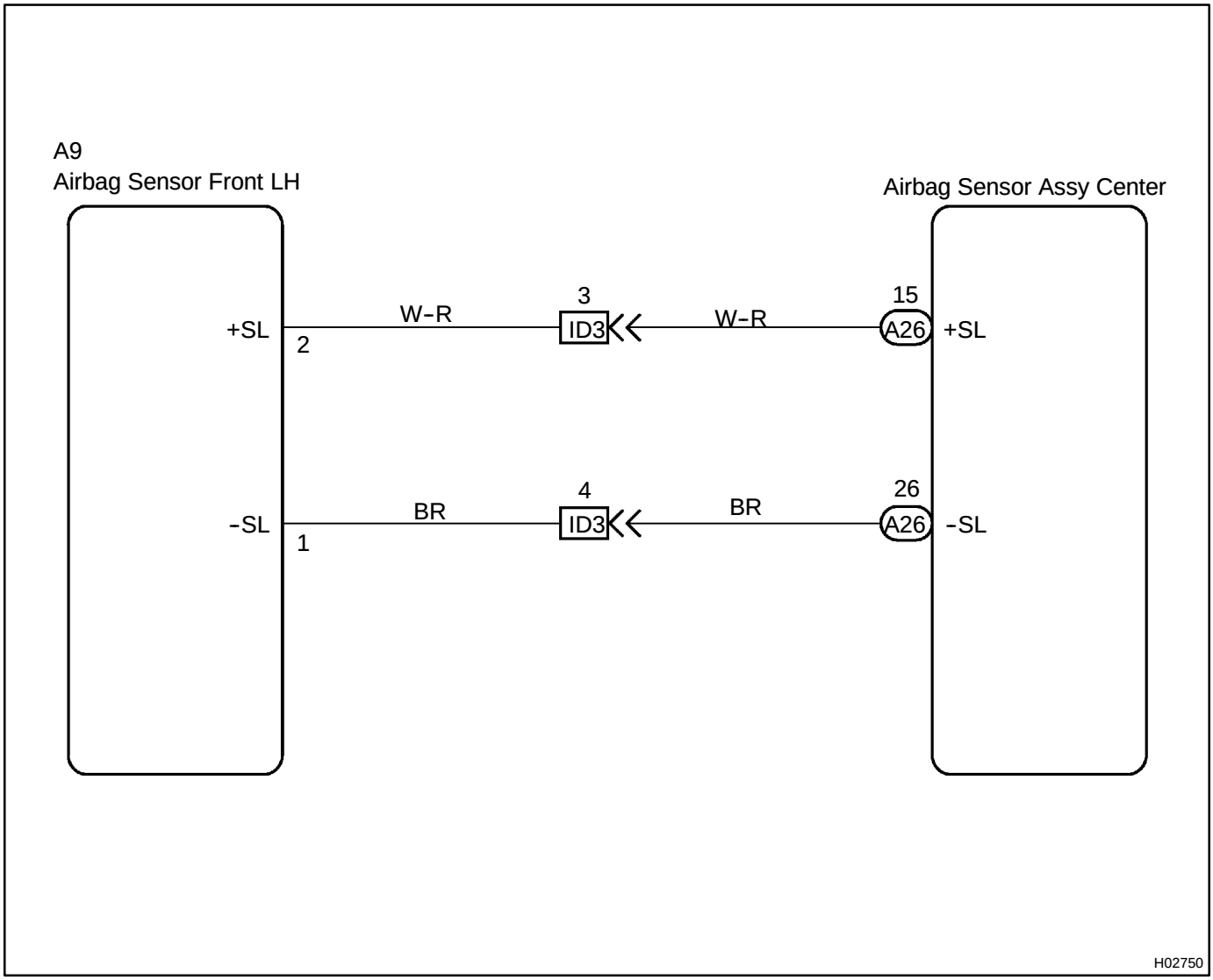
DTC	B1159/16	FRONT AIRBAG SENSOR (LH) MALFUNCTION

CIRCUIT DESCRIPTION

The airbag sensor front LH circuit consists of the airbag sensor assy center and the airbag sensor front LH. DTC B1158/16 or B1159/16 is recorded when a malfunction is detected in the airbag sensor front LH circuit.

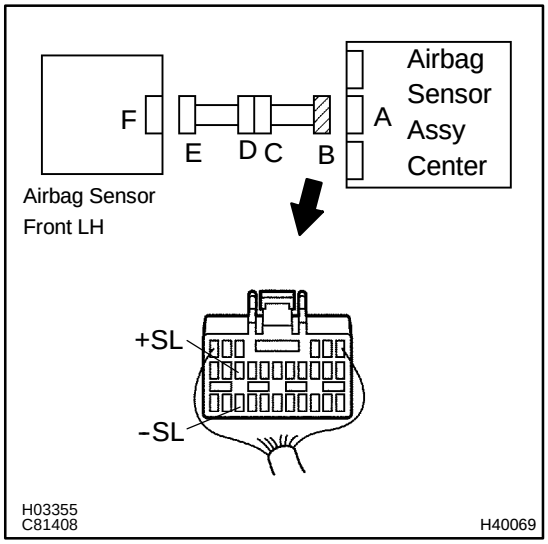
DTC No.	DTC Detecting Condition	Trouble Area
B1158/B1159/16	S Airbag sensor front LH malfunction	S Airbag sensor front LH S Airbag sensor assy center S Instrument panel wire S Engine room main wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)

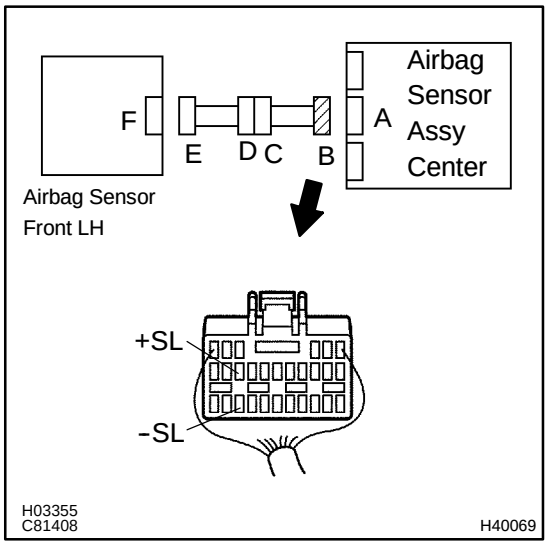


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors between the airbag sensor assy center and the airbag sensor front LH.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and each of +SL and -SL of the connector "B".
OK:
Voltage: Below 1 V

NG → **Go to step 6**

OK

2	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (TO GROUND)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)

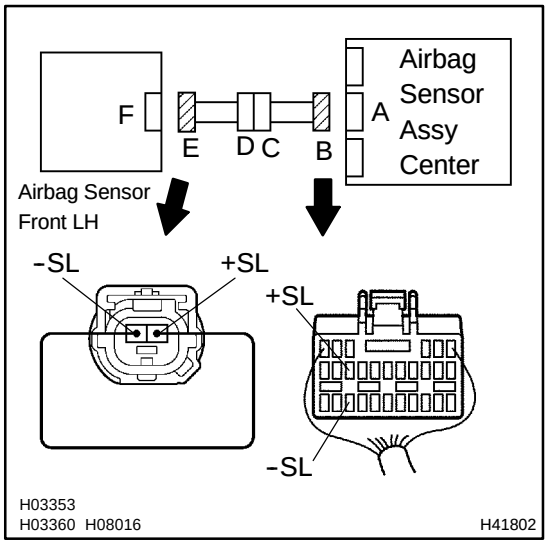


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance between the body ground and each of +SL and -SL of the connector "B".
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 7**

OK

3	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (OPEN)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)



(a) Using a service wire, connect +SL and -SL of the connector "E".

(b) Measure the resistance between +SL and -SL of the connector "B".

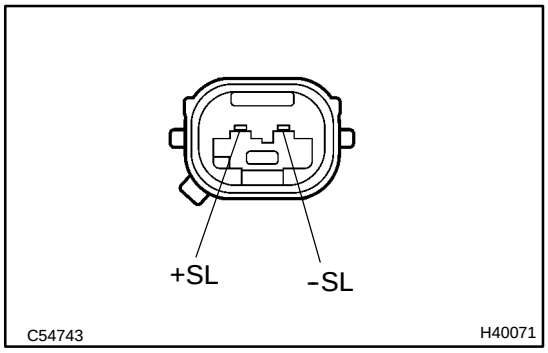
OK:

Resistance: Below 1 Ω

NG → **Go to step 8**

OK

4	INSPECT AIR BAG SENSOR FRONT LH



(a) Measure the resistance between +SL and -SL of the airbag sensor front LH connector.

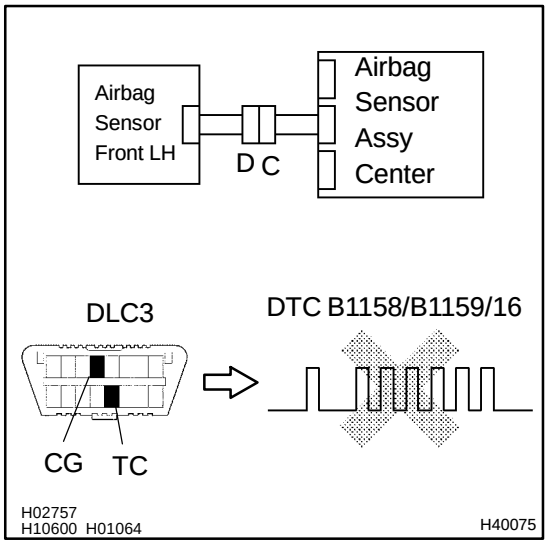
OK:

Resistance: 820 Ω

NG → **REPLACE AIR BAG SENSOR FRONT LH**

OK

5 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connectors to the airbag sensor front LH and the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 20 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 20 seconds.
(g) Check the DTCs (See page 05-4).

OK:

DTC B1158/16 or B1159/16 is not output.

HINT:

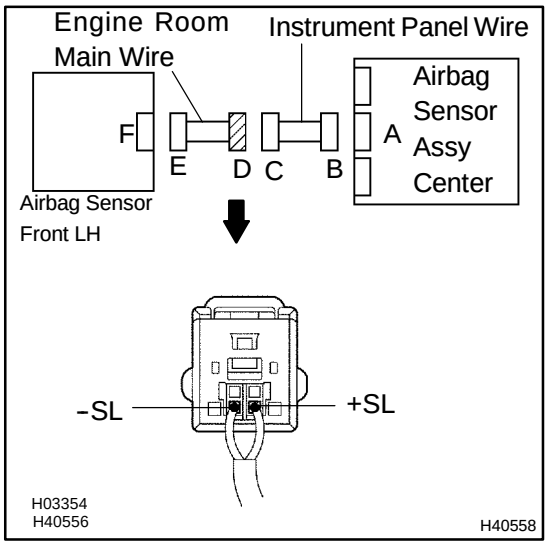
Codes other than code B1158/16 or B1159/16 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

6 CHECK ENGINE ROOM MAIN WIRE(TO B+)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the negative (-) terminal to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and each of +SL and -SL of the connector "D".

OK:

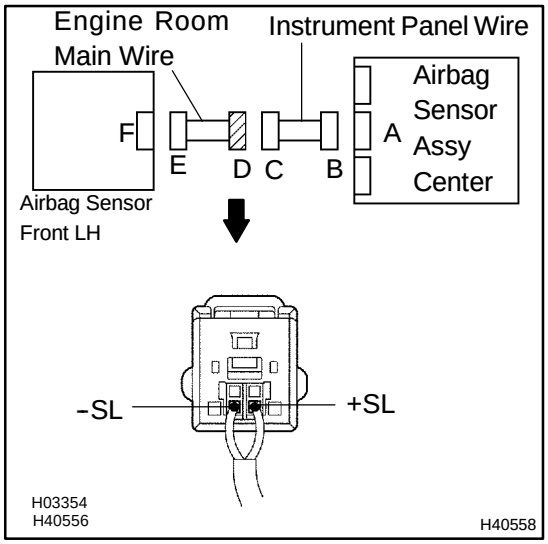
Voltage: Below 1 V

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

7 CHECK ENGINE ROOM MAIN WIRE(TO GROUND)



(a) Disconnect the engine room main wire connector from the instrument panel wire.

(b) Measure the resistance between the body ground and each of +SL and -SL of the connector "D".

OK:

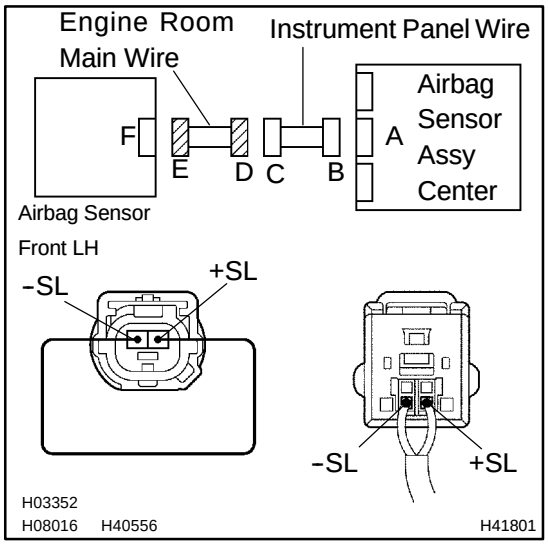
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

8 CHECK ENGINE ROOM MAIN WIRE(OPEN)



(a) Disconnect the engine room main wire connector from the instrument panel wire.

(b) Using a service wire, connect +SL and -SL of the connector "E".

(c) Measure the resistance between +SL and -SL of the connector "D".

OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1160/83	SHORT IN CURTAIN SHIELD SQUIB (RH) CIRCUIT

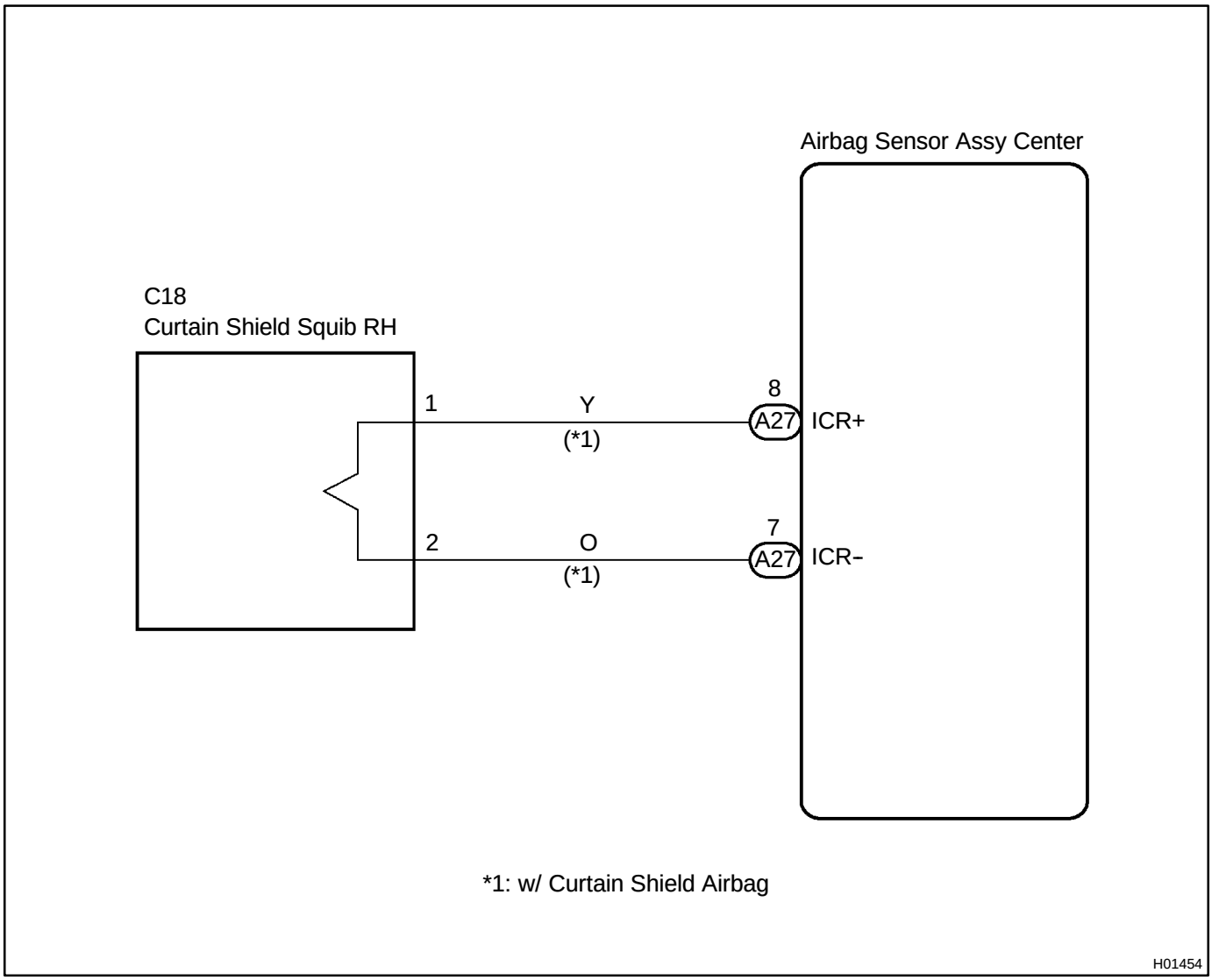
CIRCUIT DESCRIPTION

The curtain shield squib RH circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1160/83 is recorded when a short circuit is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1160/83	S Short circuit between ICR+ wire harness and ICR- wire harness of curtain shield squib RH S Curtain shield squib RH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy RH (Curtain shield squib RH) S Airbag sensor assy center S Floor wire

HINT:
DTC B1160/83 is indicated only for the vehicle equipped with the side airbag and curtain shield airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

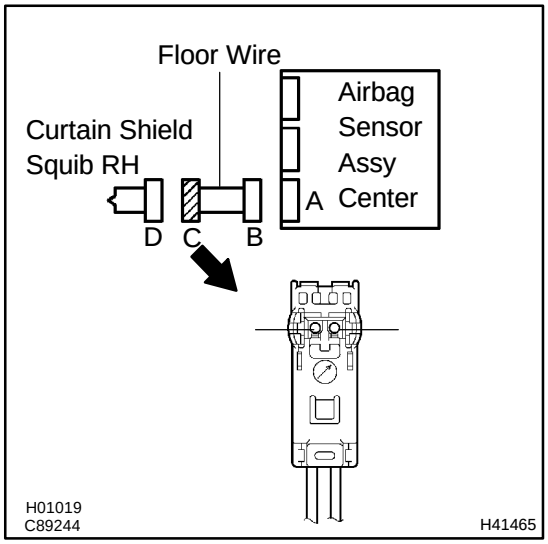
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy RH.
(d) Check that the curtain shield airbag assy RH connector is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB RH CIRCUIT)

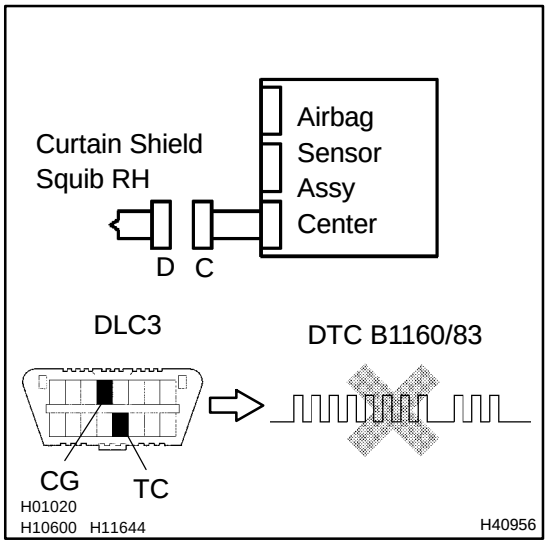


(a) Release the airbag activation prevention mechanism built in the connector "B" (See page 05–4).
(b) Measure the resistance between ICR+ and ICR– of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK AIR BAG SENSOR ASSY CENTER



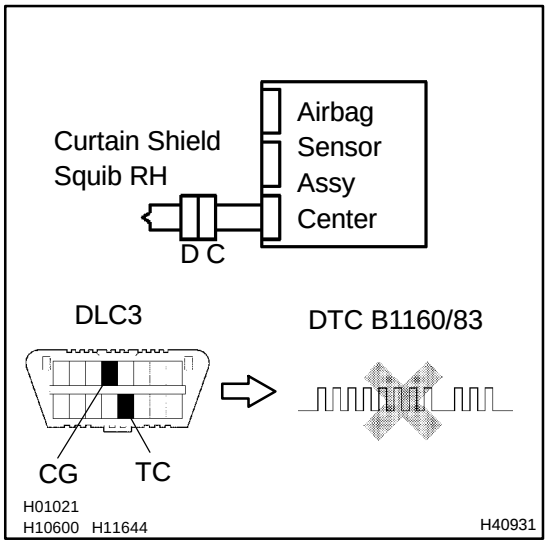
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B1160/83 is not output.

HINT:
Codes other than code B1160/83 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

4 CHECK CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B1160/83 is not output.

HINT:
Codes other than code B1160/83 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1161/84	OPEN IN CURTAIN SHIELD SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The curtain shield squib RH circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1161/84 is recorded when an open circuit is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1161/84	S Open circuit in ICR+ wire harness or ICR– wire harness of curtain shield squib RH S Curtain shield squib RH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy RH (Curtain shield squib RH) S Airbag sensor assy center S Floor wire

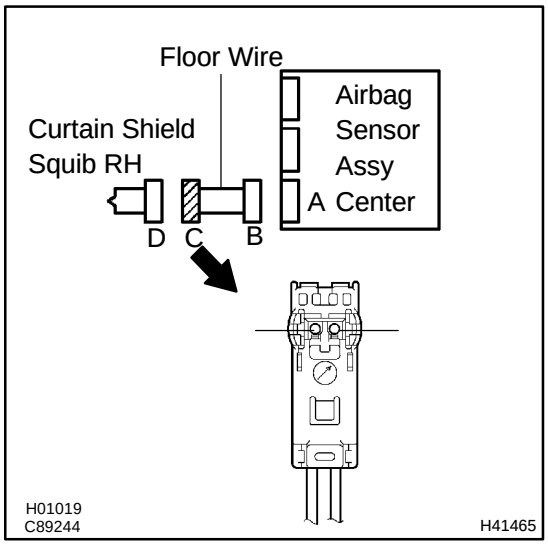
HINT:
DTC B1161/84 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05–116.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB RH CIRCUIT)

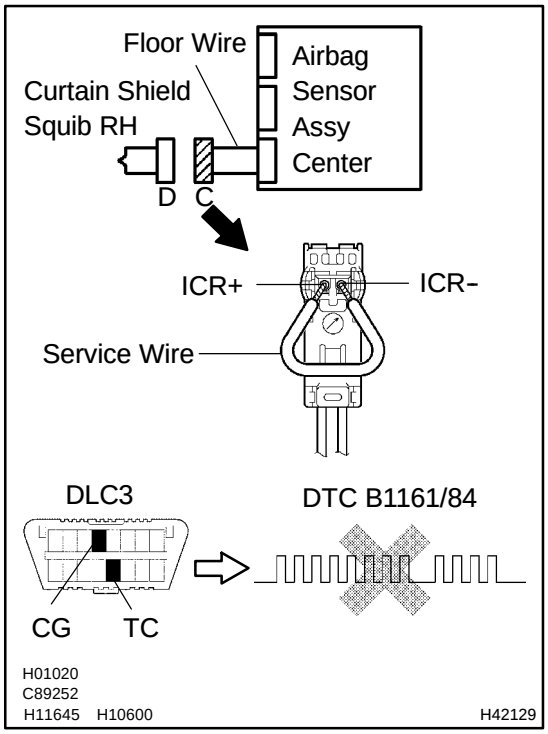


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy RH.
(d) Measure the resistance between ICR+ and ICR– of the connector "C".
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect ICR+ and ICR– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

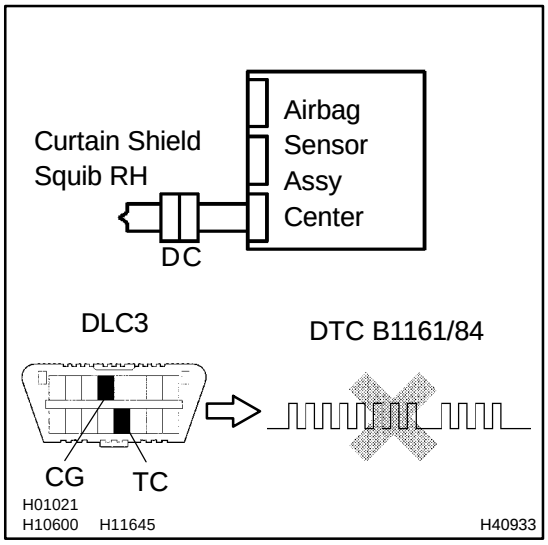
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B1161/84 is not output.

HINT:
Codes other than code B1161/84 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B1161/84 is not output.

HINT:
Codes other than code B1161/84 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1162/81	SHORT IN CURTAIN SHIELD SQUIB (RH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The curtain shield squib RH circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1162/81 is recorded when a short to ground is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1162/81	S Short circuit in curtain shield squib RH wire harness (to ground) S Curtain shield squib RH malfunction S Airbag sensor assy malfunction	S Curtain shield airbag assy RH (Curtain shield squib RH) S Airbag sensor assy center S Floor wire

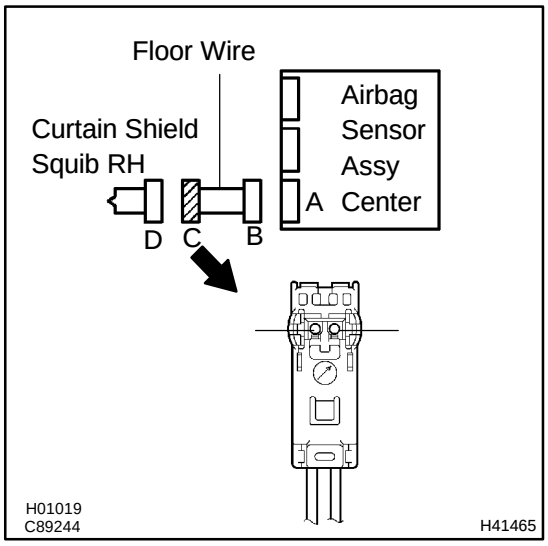
HINT:
DTC B1162/81 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05-116.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB RH CIRCUIT)

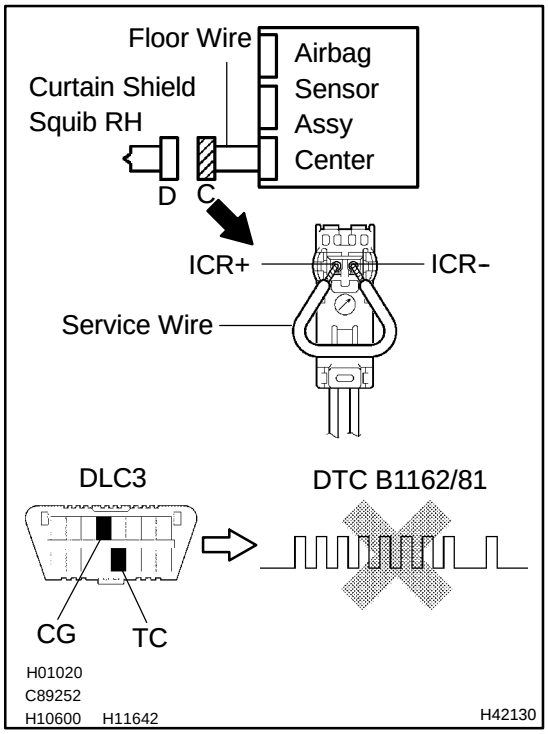


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy RH.
(d) Measure the resistance between the body ground and ICR+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect ICR+ and ICR– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

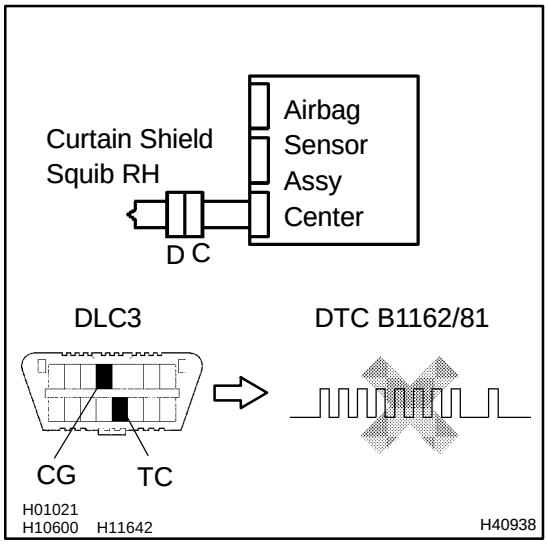
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B1162/81 is not output.

HINT:
Codes other than code B1162/81 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B1162/81 is not output.

HINT:
Codes other than code B1162/81 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B1163/82	SHORT IN CURTAIN SHIELD SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The curtain shield squib RH circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1163/82 is recorded when a short to B+ is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1163/82	S Short circuit in curtain shield squib RH wire harness (to B+) S Curtain shield squib RH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy RH (Curtain shield squib RH) S Airbag sensor assy center S Floor wire

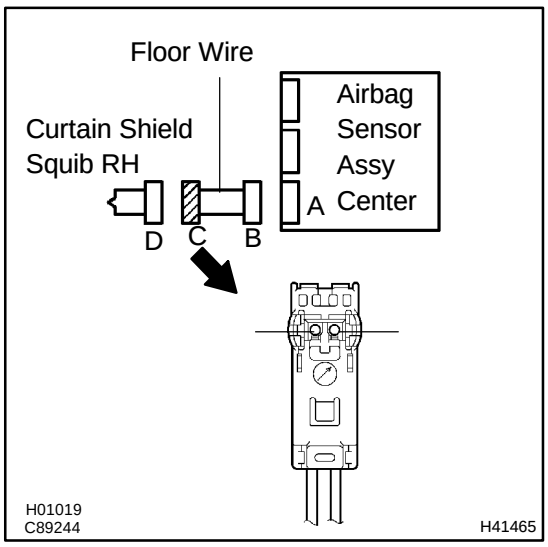
HINT:
DTC B1163/82 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05–116.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB RH CIRCUIT)

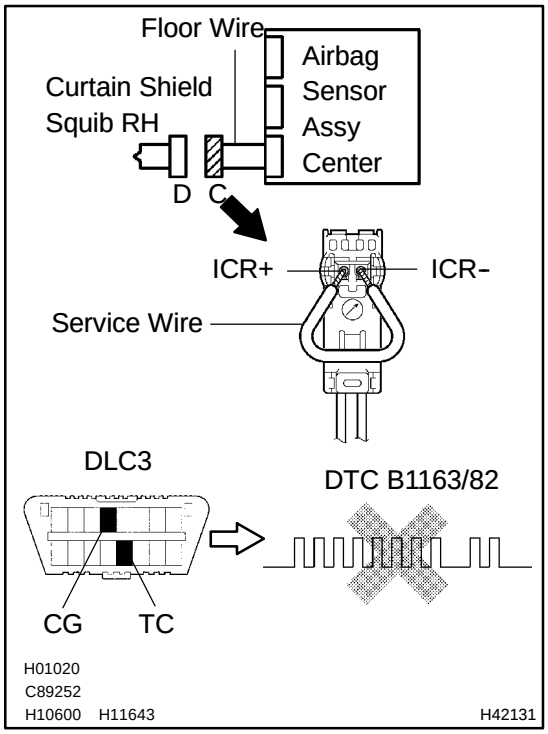


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy RH.
(d) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and ICR+ of the connector "C".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect ICR+ and ICR– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

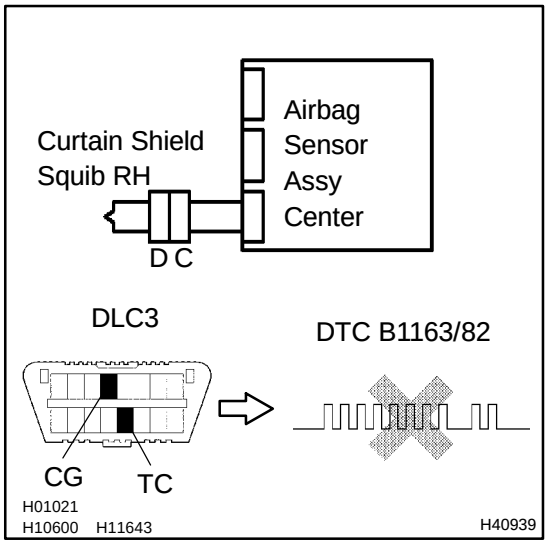
(e) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05–4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05–4).
OK:
DTC B1163/82 is not output.

HINT:
Codes other than code B1163/82 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy RH.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05–4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05–4).
OK:
DTC B1163/82 is not output.

HINT:
Codes other than code B1163/82 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B1165/87	SHORT IN CURTAIN SHIELD SQUIB (LH) CIRCUIT

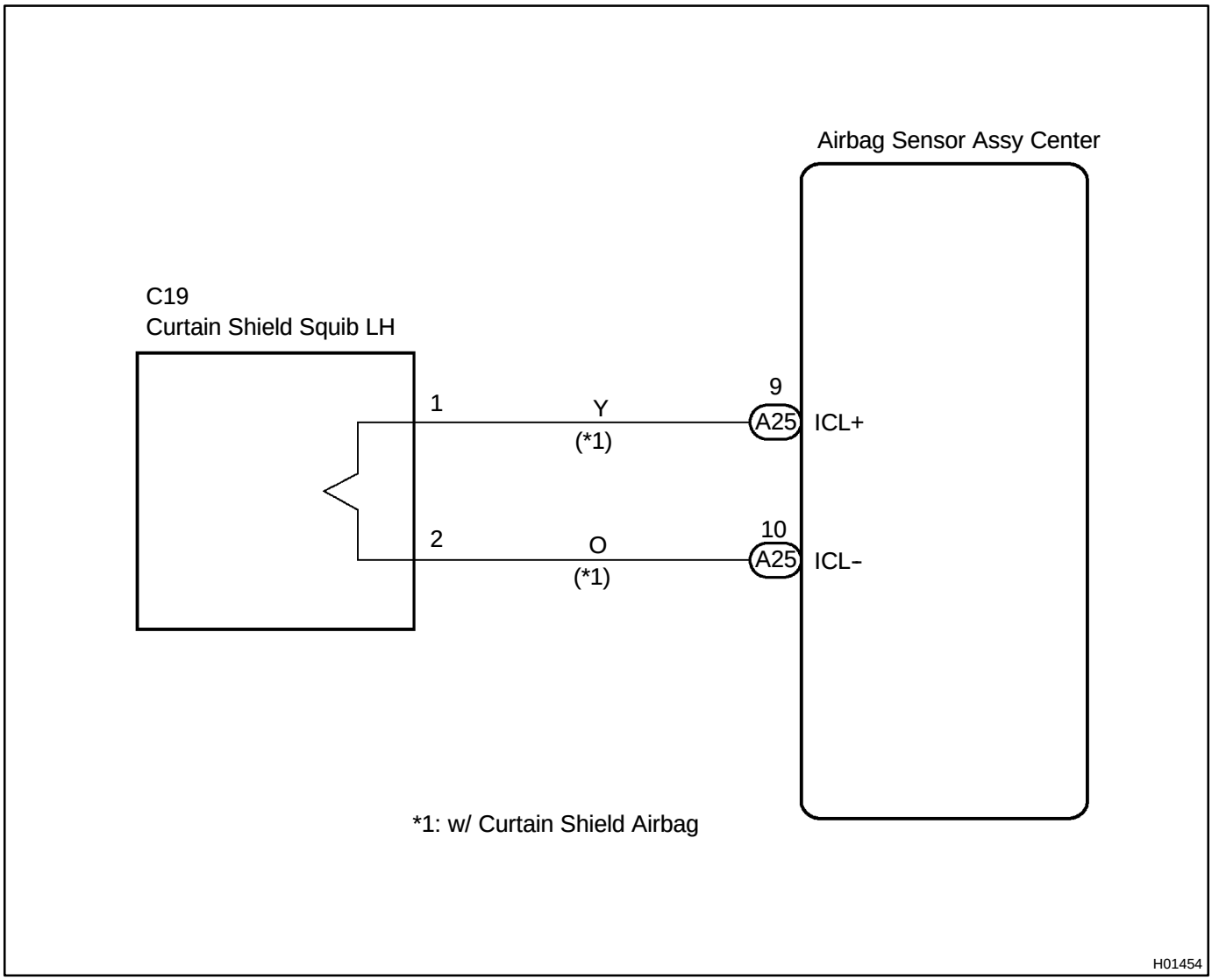
CIRCUIT DESCRIPTION

The curtain shield squib LH circuit consists of the airbag sensor assy center and the curtain shield airbag assy LH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1165/87 is recorded when a short circuit is detected in the curtain shield squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1165/87	S Short circuit between ICL+ wire harness and ICL- wire harness of curtain shield squib LH S Curtain shield squib LH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy LH (Curtain shield squib LH) S Airbag sensor assy center S Floor wire

HINT:
DTC B1165/87 is indicated only for the vehicle equipped with the side airbag and curtain shield airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

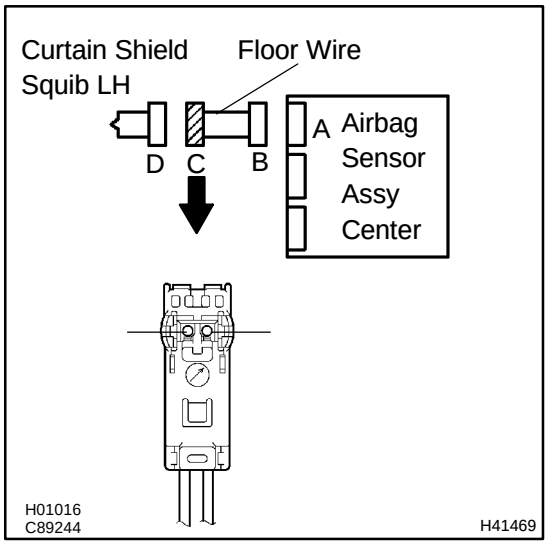
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) DIsconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy LH.
(d) Check that the curtain shield airbag assy LH connector is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB LH CIRCUIT)

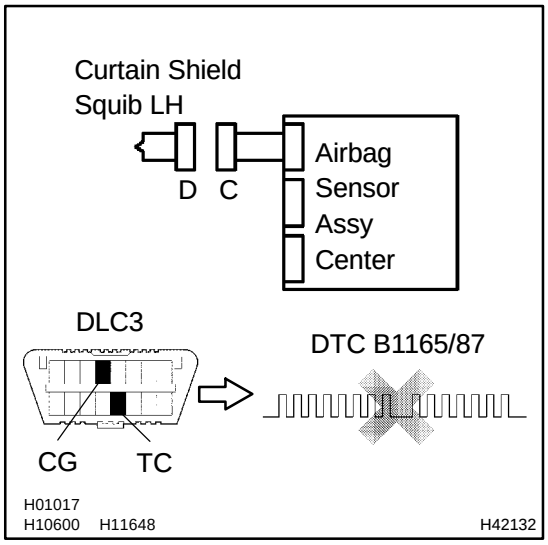


(a) Release the airbag activation prevention mechanism built in the connector "B" (See page 05–4).
(b) Measure the resistance between ICL+ and ICL– of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3	CHECK AIR BAG SENSOR ASSY CENTER



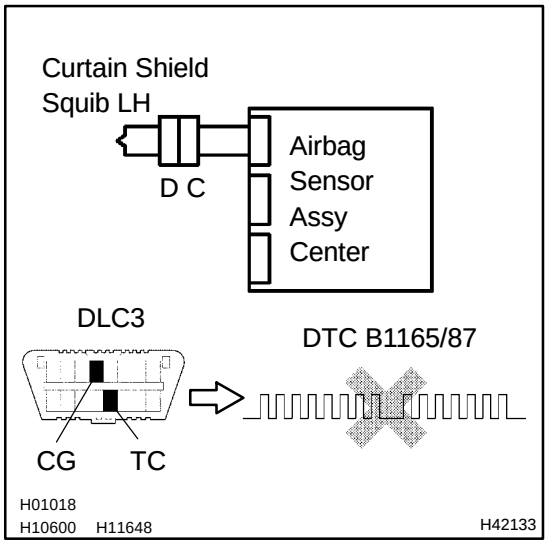
(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(d) Clear the stored DTCs in the memory (See page 05-4).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Check the DTCs (See page 05-4).
OK:
DTC B1165/87 is not output.

HINT:
Codes other than code B1165/87 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

4	CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B1165/87 is not output.

HINT:
Codes other than code B1165/87 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1166/88	OPEN IN CURTAIN SHIELD SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The curtain shield squib LH circuit consists of the airbag sensor assy center and the curtain shield airbag assy LH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1166/88 is recorded when an open circuit is detected in the curtain shield squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1166/88	S Open circuit in ICL+ wire harness or ICL– wire harness of curtain shield squib LH S Curtain shield squib LH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy LH (Curtain shield squib LH) S Airbag sensor assy center S Floor wire

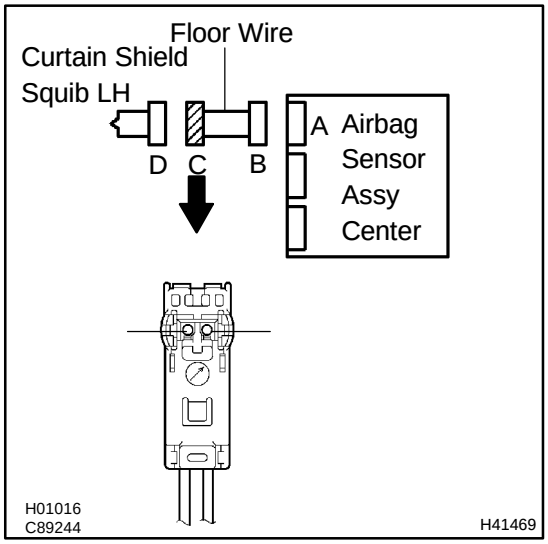
HINT:
DTC B1166/88 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05–128.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB LH CIRCUIT)

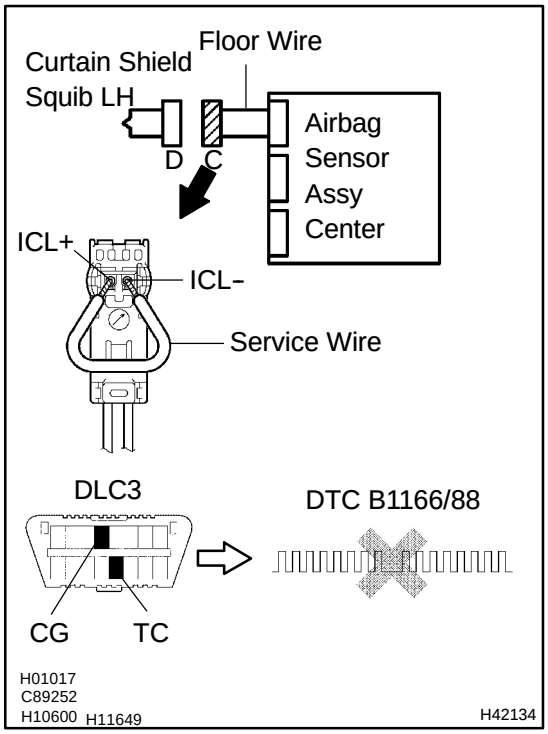


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy LH.
(d) Measure the resistance between ICL+ and ICL– of the connector ”C”.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect ICL+ and ICL– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

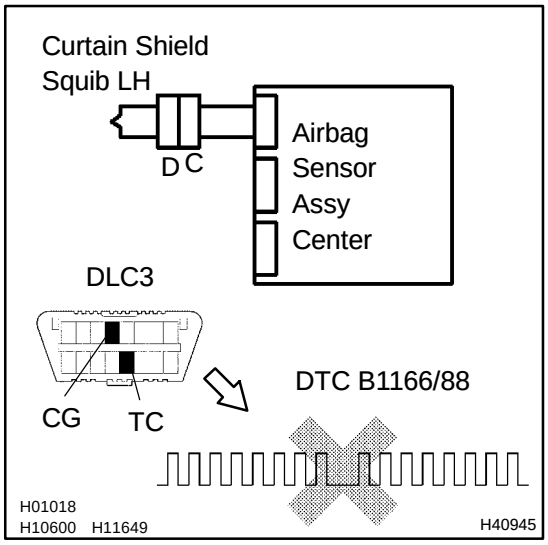
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B1166/88 is not output.

HINT:
Codes other than code B1166/88 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).
OK:
DTC B1166/88 is not output.

HINT:
Codes other than code B1166/88 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1167/85	SHORT IN CURTAIN SHIELD SQUIB (LH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The curtain shield squib LH circuit consists of the airbag sensor assy center and the curtain shield airbag assy LH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1167/85 is recorded when a short to ground is detected in the curtain shield squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1167/85	S Short circuit in curtain shield squib LH wire harness (to ground) S Curtain shield squib LH malfunction S Airbag sensor assy malfunction	S Curtain shield airbag assy LH (Curtain Shield Squib LH) S Airbag sensor assy center S Floor wire

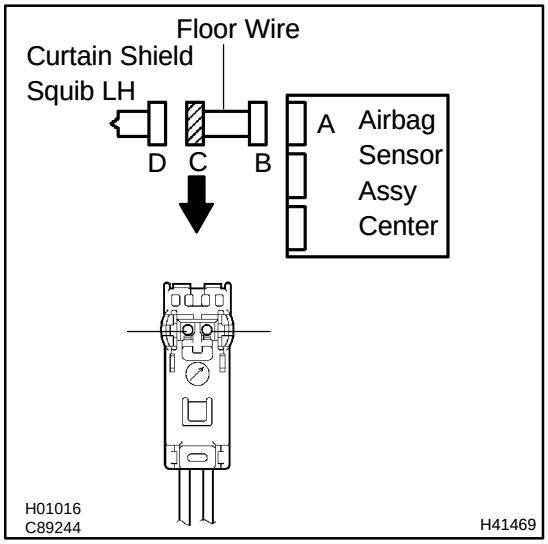
HINT:
DTC B1167/85 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05-128.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB LH CIRCUIT)

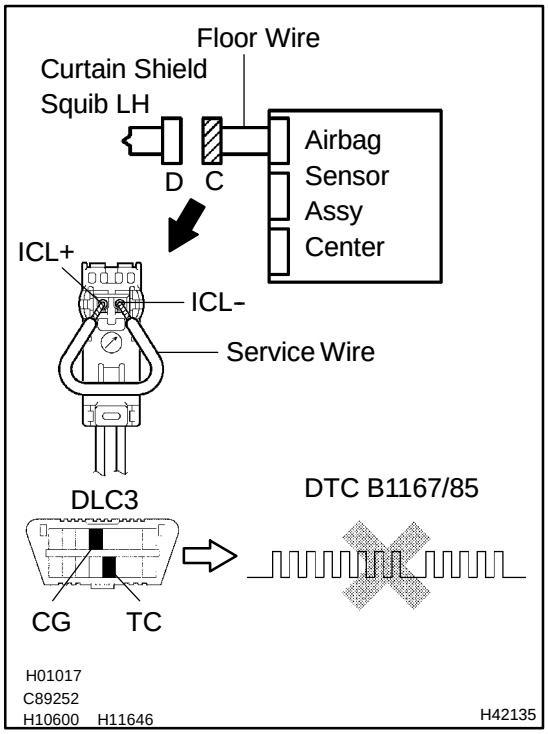


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy LH.
(d) Measure the resistance between the body ground and ICL+ of the connector "C".
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect ICL+ and ICL– of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

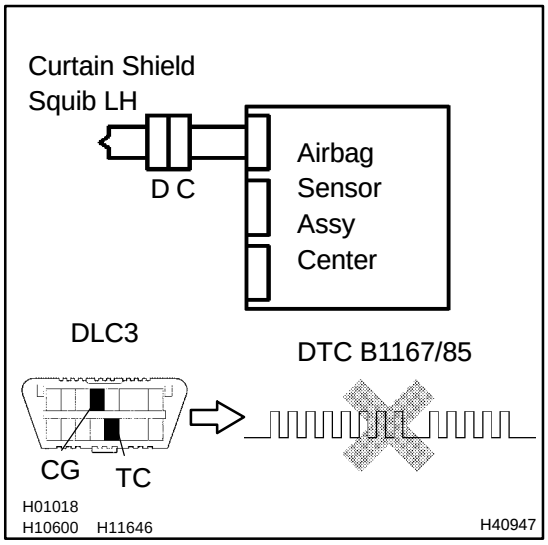
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05–4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05–4).
OK:
DTC B1167/85 is not output.

HINT:
Codes other than code B1167/85 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05-4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05-4).

OK:

DTC B1167/85 is not output.

HINT:

Codes other than code B1167/85 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY LH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

DTC	B1168/86	SHORT IN CURTAIN SHIELD SQUIB (LH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The curtain shield squib LH circuit consists of the airbag sensor assy center and the curtain shield airbag assy LH.
This circuit actuates the SRS to deploy when the SRS deployment conditions are fulfilled.
DTC B1168/86 is recorded when a short to B+ is detected in the curtain shield squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1168/86	S Short circuit in curtain shield squib LH wire harness (to B+) S Curtain shield squib LH malfunction S Airbag sensor assy center malfunction	S Curtain shield airbag assy LH (Curtain shield squib LH) S Airbag sensor assy center S Floor wire

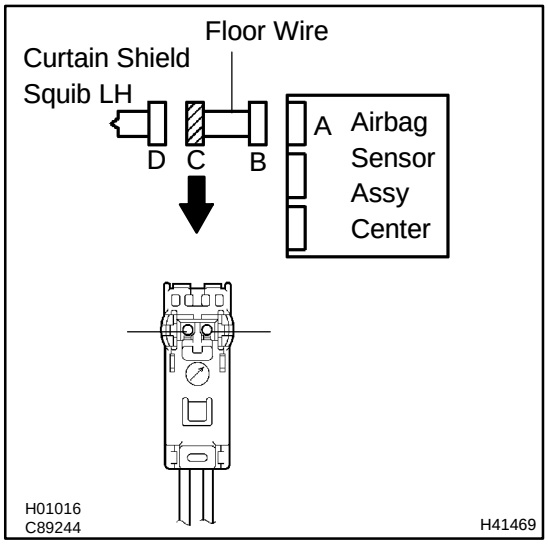
HINT:
DTC B1168/86 is indicated only for the vehicle equipped with the curtain shield airbag.

WIRING DIAGRAM

See page 05–128.

INSPECTION PROCEDURE

1	CHECK FLOOR WIRE(CURTAIN SHIELD SQUIB LH CIRCUIT)

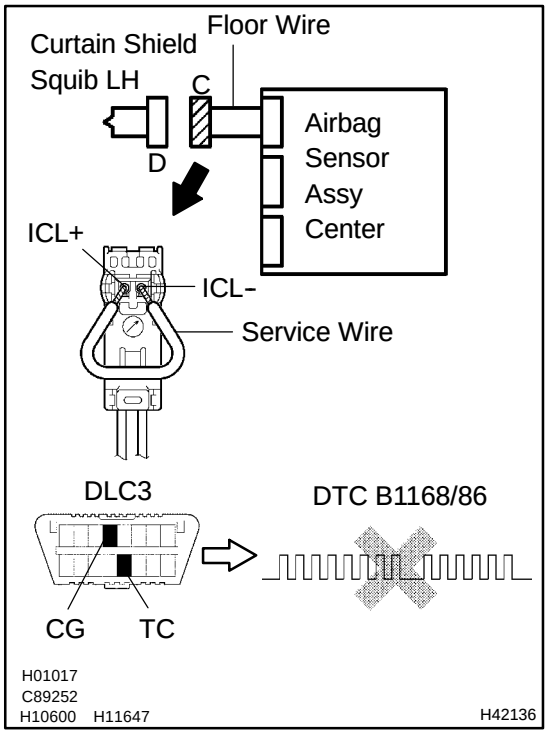


(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center and the curtain shield airbag assy LH.
(d) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(e) Measure the voltage between the body ground and ICL+ of the connector "C".
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect ICL+ and ICL- of the connector "C".

NOTICE:
Do not forcibly insert a service wire into the terminal of the connector when connecting.

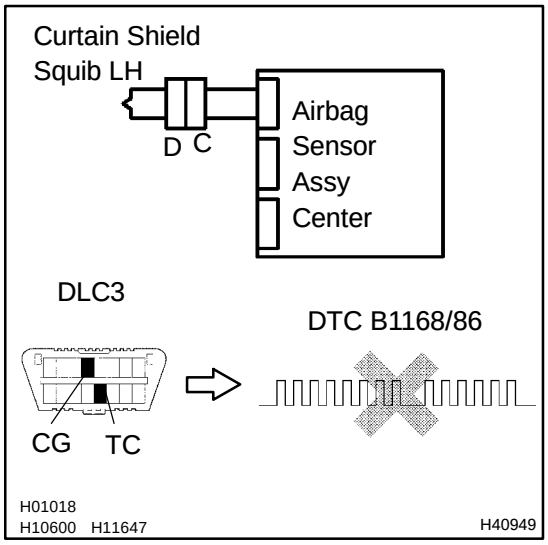
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(g) Clear the stored DTCs in the memory (See page 05-4).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(j) Check the DTCs (See page 05-4).
OK:
DTC B1168/86 is not output.

HINT:
Codes other than code B1168/86 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD SQUIB LH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag assy LH.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(f) Clear the stored DTCs in the memory (See page 05–4).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(i) Check the DTCs (See page 05–4).
OK:
DTC B1168/86 is not output.

HINT:
Codes other than code B1168/86 may be output at this time, but they are not related to this check.

NG → **REPLACE CURTAIN SHIELD AIR BAG ASSY LH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

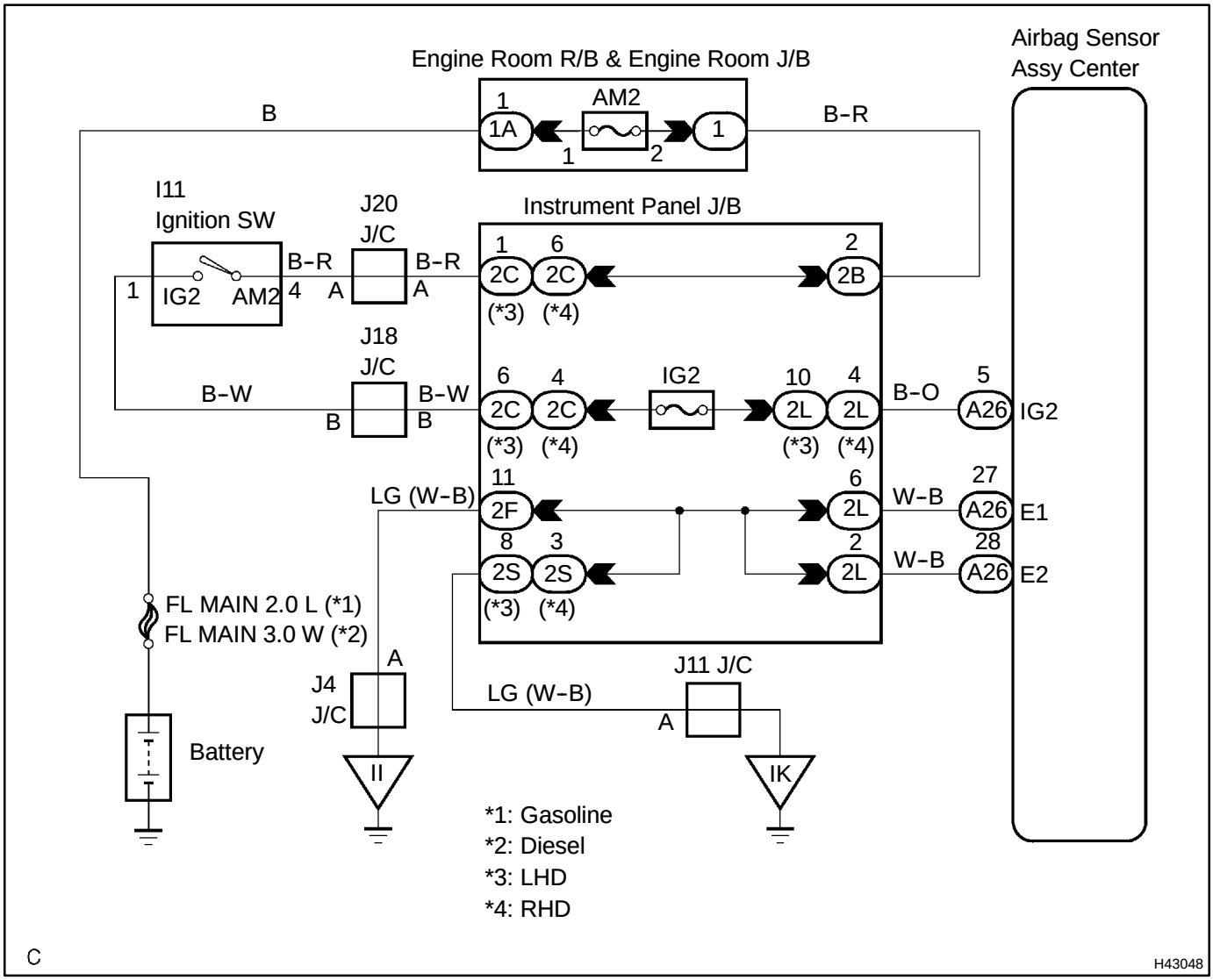
SOURCE VOLTAGE DROP

CIRCUIT DESCRIPTION

The SRS is equipped with a voltage-increase circuit (DC-DC converter) in the airbag sensor assy center in case the source voltage drops.
When the battery voltage drops, the voltage-increase circuit (DC-DC converter) functions to increase the voltage of the SRS to normal voltage.
The diagnosis system malfunction display for this circuit is different from other circuits. When the SRS warning light remains on and the DTC is a normal code, source voltage drop is indicated.
Malfunction in this circuit is not recorded in the airbag sensor assy center, and the source voltage returns to normal, the SRS warning light automatically goes off.

DTC No.	Diagnosis
(Normal)	Source voltage drop

WIRING DIAGRAM



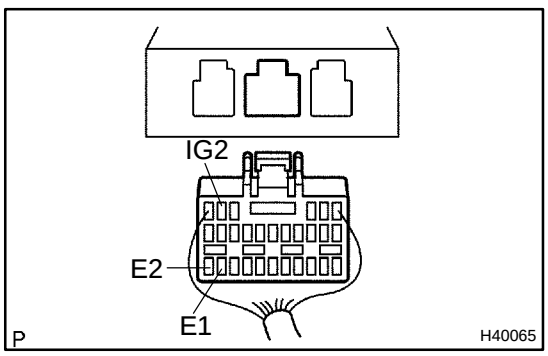
INSPECTION PROCEDURE

1	PREPARE FOR INSPECTION

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Remove the horn button assy (See Pub. No. RM925E, page 60-13).
(d) Disconnect the connector of the instr pnl pass l/door airbag assy (See Pub. No. RM925E, page 60-23).
(e) w/ Side airbag:
Disconnect the connector of the front seat airbag assy RH and LH (See Pub. No. RM925E, page 72-2).
(f) w/ Side and curtain shield airbag:
Disconnect the connector of the curtain shield airbag assy RH and LH (See page 60-17).
(g) Disconnect the connector of the seat belt pretensioner RH and LH (See Pub. No. RM925E, page 61-2).
(h) Disconnect the connectors of the airbag sensor assy center (See Pub. No. RM925E, page 60-38).
(i) Disconnect the connector of the airbag front RH sensor (See Pub. No. RM925E, page 60-40).
(j) Disconnect the connector of the airbag front LH sensor (See Pub. No. RM925E, page 60-42).
(k) w/ Side airbag:
Disconnect the connector of the side airbag sensor assy RH and LH (See Pub. No. RM925E, page 60-46).
(l) w/ Side and curtain shield airbag:
Disconnect the connector of the airbag sensor rear RH and LH (See page 60-31 and 60-33).

CAUTION:
Store the horn button assy, instr pnl pass l/door airbag assy, front seat airbag assy and curtain shield airbag assy with facing the front surface upward.

2	CHECK SOURCE VOLTAGE



(a) Connect negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(c) Measure the voltage between body ground and each of terminal IG2, E1 and E2 of the connector and operate electric system (defogger, wiper, headlight, heater blower, etc.).
OK:
Voltage: 10 to 14 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM**

OK

3	CHECK SRS WARNING LIGHT TURN OFF

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the horn button assy connector (See Pub. No. RM925E, page 60-13).
(d) Connect the instr pnl pass l/door airbag assy connector (See Pub. No. RM925E, page 60-23).
(e) w/ Side airbag:
Connect the front seat airbag assy RH and LH connectors (See Pub. No. RM925E, page 72-2).
(f) w/ Side and curtain shield airbag:
Connect the curtain shield airbag assy RH and LH connectors (See page 60-17).
(g) Connect the seat belt pretensioner RH and LH connectors (See Pub. No. RM925E, page 61-2).
(h) Connect the airbag sensor assy center connectors (See Pub. No. RM925E, page 60-38).
(i) Connect the airbag front RH sensor connector (See Pub. No. RM925E, page 60-40).
(j) Connect the airbag front LH sensor connector (See Pub. No. RM925E, page 60-42).
(k) w/ Side airbag:
Connect the side airbag sensor assy RH and LH connectors (See Pub. No. RM925E, page 60-46).
(l) w/ Side and curtain shield airbag:
Connect the airbag sensor rear RH and LH connectors (See page 60-31 and 60-33).
(m) Connect negative (-) terminal cable to the battery.
(n) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(o) Operate electric system (defogger, wiper, headlight, heater blower, etc.) and check that SRS warning light goes off.
OK:
SRS warning Light is not Lights up.

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM**

OK

4	CHECK AIR BAG SENSOR ASSY CENTER

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(e) Clear the stored DTCs in the memory (See page 05-4).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(h) Check the DTCs (See page 05-4).
OK:
DTC is not output.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

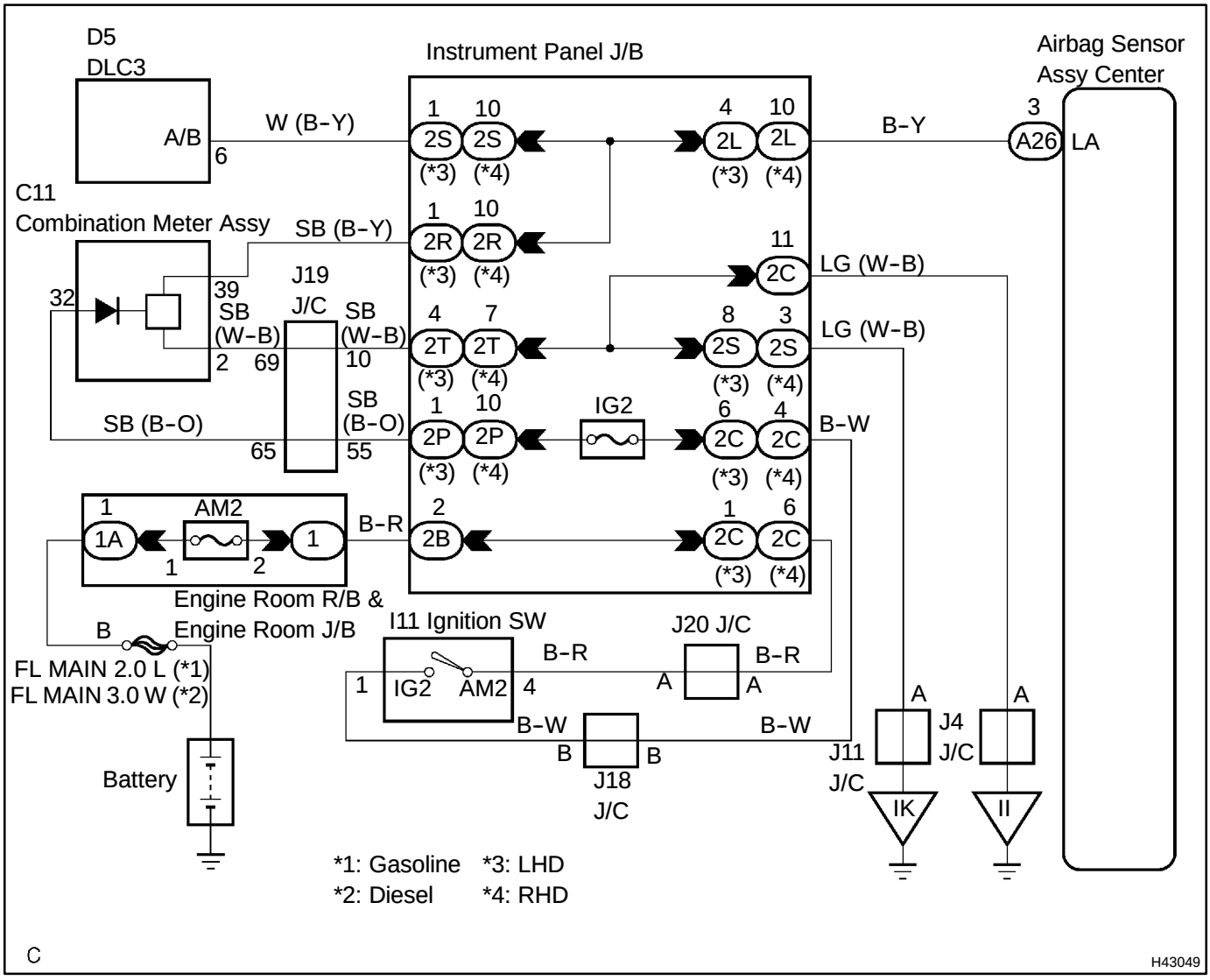
USE SIMULATION METHOD TO CHECK

SRS WARNING LIGHT CIRCUIT MALFUNCTION (ALWAYS LIGHT UP, WHEN IGNITION SWITCH IS LOCK POSITION.)

CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter assy.
When the SRS is normal, the SRS warning light comes on approx. 6 seconds after the ignition switch is turned from the LOCK position to ON position, and then it turns off automatically.
If there is a malfunction in the SRS, the SRS warning light comes on to inform a trouble to the driver.
When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

WIRING DIAGRAM



INSPECTION PROCEDURE

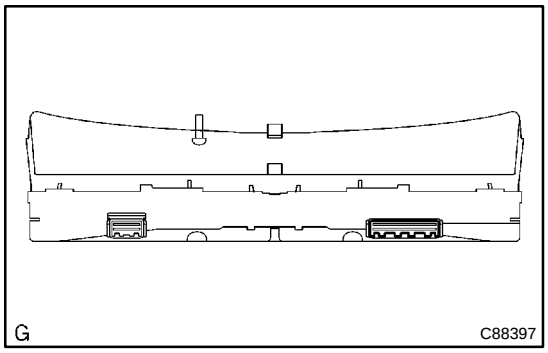
1	CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the airbag sensor assy center connector.
(d) Connect the negative (-) terminal cable to the battery.
(e) Check for operation of the SRS warning light.
OK:
The connectors are connected.

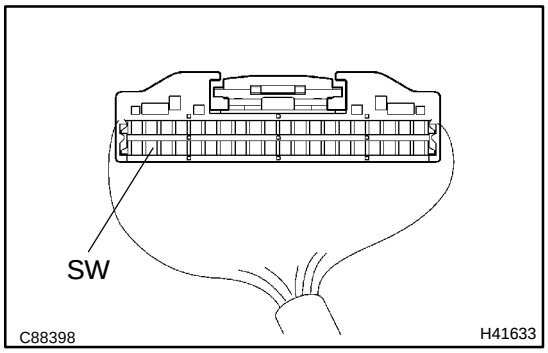
NG → **CONNECT CONNECTORS**

OK

2	CHECK COMBINATION METER ASSY



(a) Disconnect the connector from the combination meter assy.
(b) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.

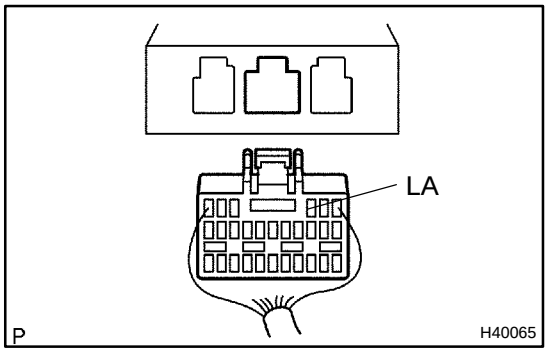


(c) Measure the resistance between the body ground and SW of the combination meter assy.
OK:
Voltage: 8 V or Higher

NG → **REPAIR OR REPLACE COMBINATION METER ASSY**

OK

3	CHECK WIRE HARNESS(AIRBAG SENSOR ASSY CENTER - COMBINATION METER ASSY)

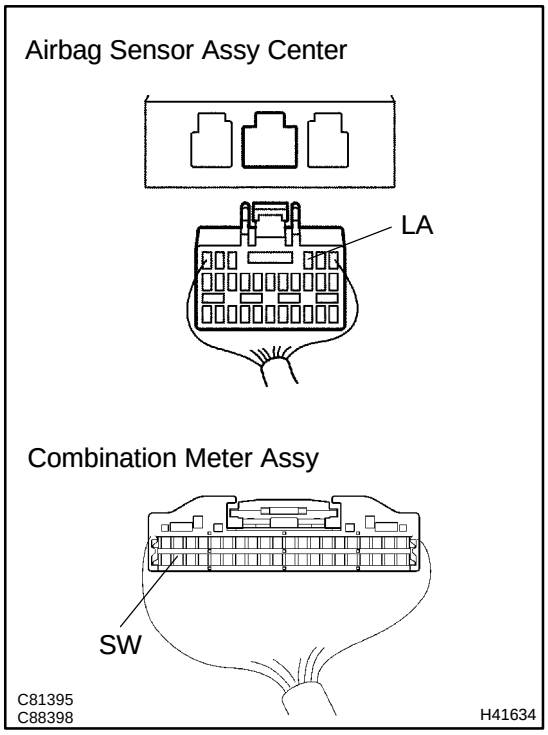


(a) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect the connector from the airbag sensor assy center.
(c) Measure the resistance between the body ground and LA of the airbag sensor assy center connector.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS (AIRBAG SENSOR ASSY CENTER - COMBINATION METER ASSY)**

OK

4	CHECK WIRE HARNESS(AIRBAG SENSOR ASSY CENTER - COMBINATION METER ASSY)



(a) Measure the resistance between SW of the combination meter assy connector and LA of the airbag sensor assy center connector.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS (AIRBAG SENSOR ASSY CENTER - COMBINATION METER ASSY)**

OK

REPLACE AIR BAG SENSOR ASSY CENTER

SRS WARNING LIGHT CIRCUIT MALFUNCTION (DOES NOT LIGHT UP, WHEN IGNITION SWITCH IS TURNED TO ACC OR ON)

CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter assy.
When the SRS is normal, the SRS warning light comes on for approx. 6 seconds after the ignition switch is turned from the LOCK position to ON position, and then it turns off automatically.
If there is a malfunction is the SRS, the SRS warning light comes on to inform a trouble to the driver.
When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

WIRING DIAGRAM

See page 05–143.

INSPECTION PROCEDURE

1	CHECK SOURCE VOLTAGE

(a) Measure the voltage of the battery.
OK:
Voltage: 10 to 14 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM**

OK

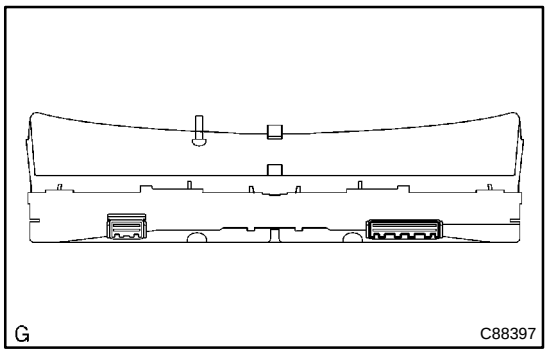
2	CHECK AIR BAG SENSOR ASSY CENTER

(a) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect the connector from the airbag sensor assy center.
(c) Connect the negative (–) terminal cable to the battery, and turn the ignition switch to the ON position.
(d) Check SRS warning light comes on in the combination meter assy.
OK:
Not SRS warning light comes on.

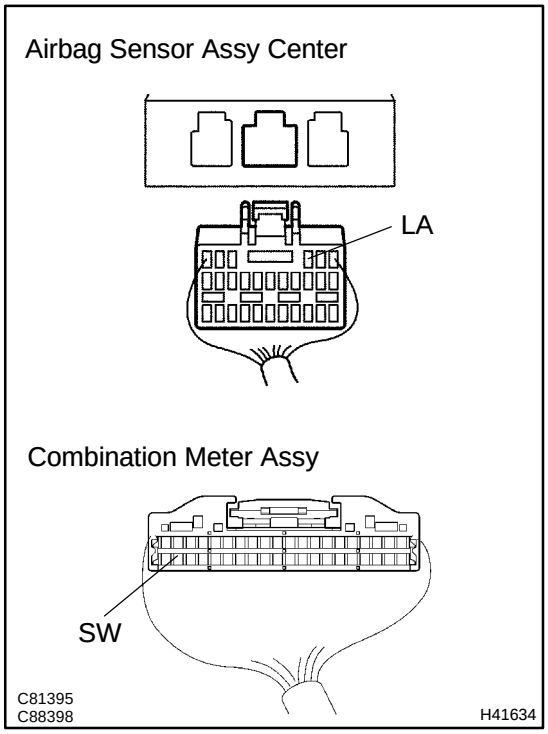
NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK WIRE HARNESS(COMBINATION METER ASSY - BATTERY)



(a) Disconnect the connector from the combination meter assy.



(b) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to the ON position.

(c) Measure the resistance between SW of the combination meter assy connector and LA of the airbag sensor assy center connector.

OK:

Voltage: Below 1 V

NG → **REPAIR OR REPLACE WIRE HARNESS (COMBINATION METER - BATTERY)**

OK

REPLACE COMBINATION METER ASSY

SUPPLEMENTAL RESTRAINT SYSTEM

SUPPLEMENTAL RESTRAINT SYSTEM
(Jan., 2003) 60-1
PRECAUTION 60-1
ON-VEHICLE INSPECTION 60-9
CURTAIN SHIELD AIR BAG ASSY LH
(Jan., 2003) 60-13
COMPONENTS 60-13
REPLACEMENT 60-17
DISPOSAL 60-24
AIR BAG SENSOR REAR LH
(3-DOOR HATCHBACK
- Jan., 2003) 60-30
COMPONENTS 60-30
REPLACEMENT 60-31
AIR BAG SENSOR REAR LH
(EXCEPT 3-DOOR HATCHBACK
- Jan., 2003) 60-32
COMPONENTS 60-32
REPLACEMENT 60-33

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)

600J9-01

PRECAUTION

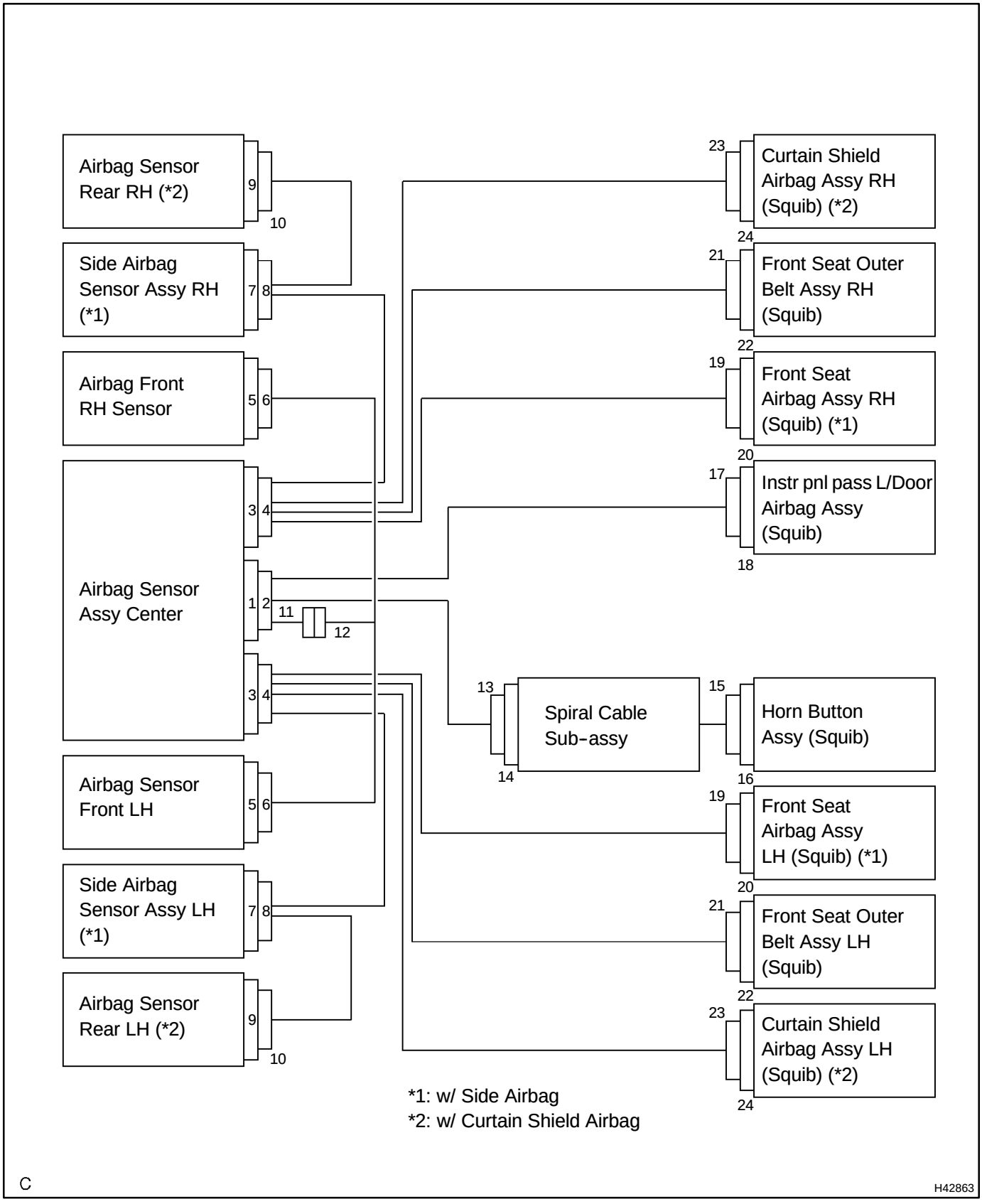
CAUTION:

- **The COROLLA is equipped with SRS, which consists of a driver airbag, front passenger airbag, side airbag and curtain shield airbag. Failure to carry out service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Further, if a mistake is made in servicing the SRS, it is possible that the SRS may fail to operate when required. 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 described in the repair manual.**
- **Work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back-up power source, so that if work is started within 90 seconds so that disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)
- **Do not expose the horn button assy, instr pnl pass l/door airbag assy, airbag sensor assy center, airbag front sensor, front seat airbag assy, side airbag sensor assy, curtain shield airbag assy and airbag sensor rear directly to hot air or flames.**

NOTICE:

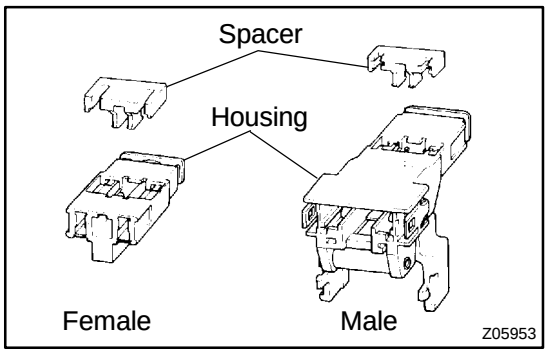
- **Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.**
- **Even in case of a minor collision when the SRS does not deploy, the horn button assy, instr pnl pass l/door airbag assy, airbag sensor assy center, airbag front sensor, front seat airbag assy, and side airbag sensor assy, curtain shield airbag assy and airbag sensor rear should be inspected (See page 60-9).**
- **Before repair work, remove the airbag sensor if any kind of shock is likely to occur to the sensor during the operation.**
- **Never use the SRS parts from another vehicle. When replacing the parts, replace them with new parts.**
- **Never disassemble nor repair the horn button assy, instr pnl pass l/door airbag assy, airbag sensor assy center, airbag front sensor, front seat airbag assy, side airbag sensor assy, curtain shield airbag assy or airbag sensor rear in order to reuse it.**
- **If the horn button assy, instr pnl pass l/door airbag assy, airbag sensor assy center, airbag front sensor, front seat airbag assy, side airbag sensor assy, curtain shield airbag assy or airbag sensor rear has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
- **Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.**
- **Information labels are attached to the periphery of the SRS components. Follow the instructions on the notice.**
- **After work on the SRS is completed, perform the SRS warning light check (See page 60-9).**
- **When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.**
- **If the vehicle is equipped with a mobile communication system, refer to the precaution in the INTRODUCTION section.**

1. SRS CONNECTORS



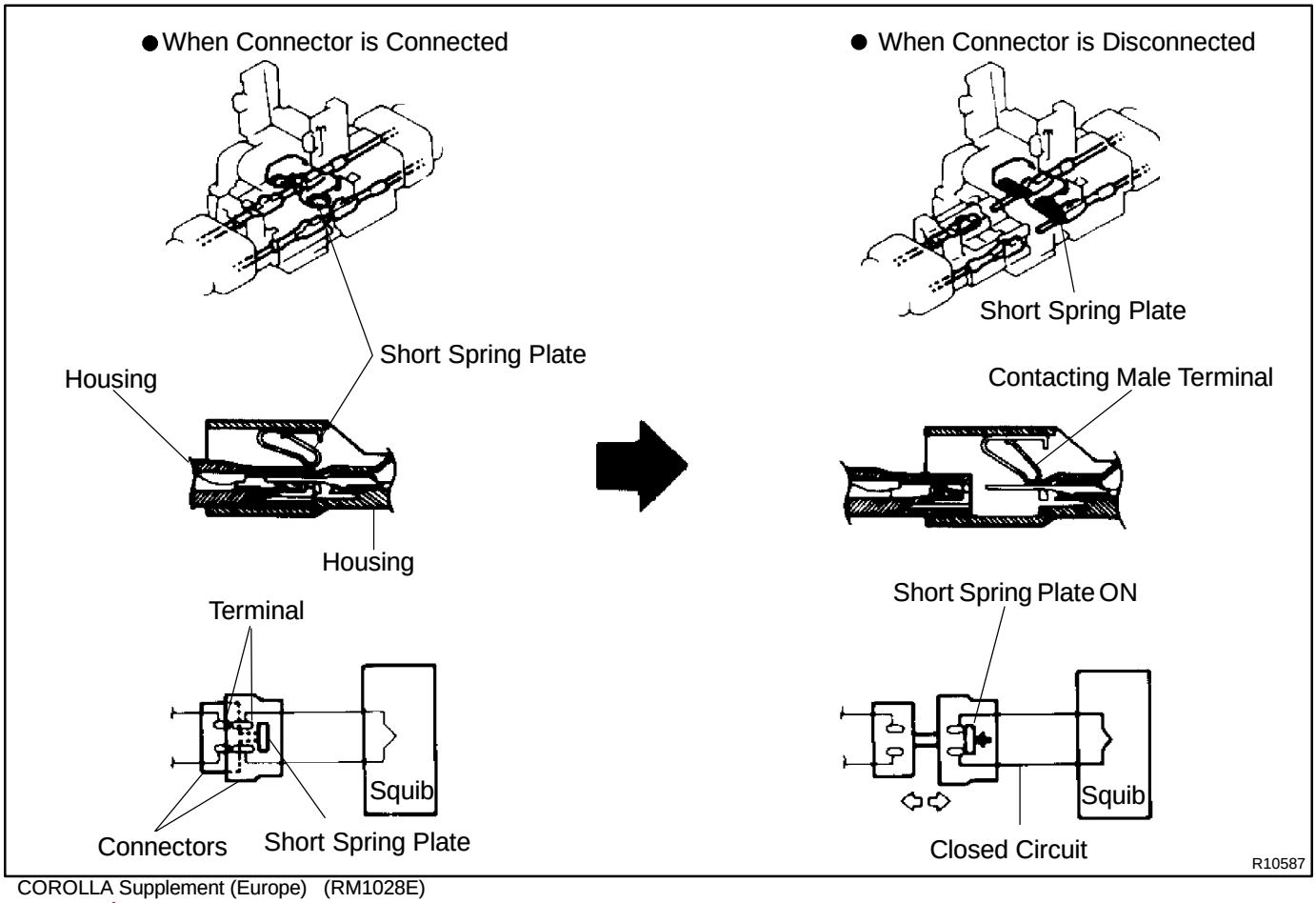
No.	Item	Application
(1)	Terminal Twin-Lock Mechanism	Connectors 2, 4, 6, 8, 10, 11, 12, 13, 15, 17, 18 19, 20
(2)	Activation Prevention Mechanism	Connectors 2, 4, 14, 16, 18, 20, 22, 24
(3)	Electrical Connection Check Mechanism	Connectors 1, 2, 3, 4
(4)	Half Connection Prevention Mechanism	Connectors 6, 8, 10, 12, 13 17, 19
(5)	Connector Lock Mechanism	Connectors 15, 21, 23

(a) All connectors in the SRS are colored in yellow to distinguish them from other connectors. the connectors having special functions and specifically designed for the SRS are used in the locations shown on the previous page to ensure high reliability. These connectors use durable gold-plated terminals.

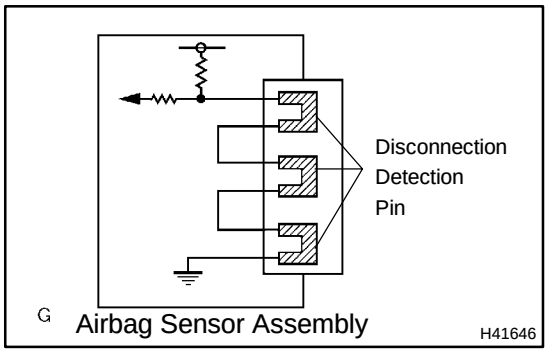


(1) Terminal twin-lock mechanism:
Each connector has a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent terminals from coming out.

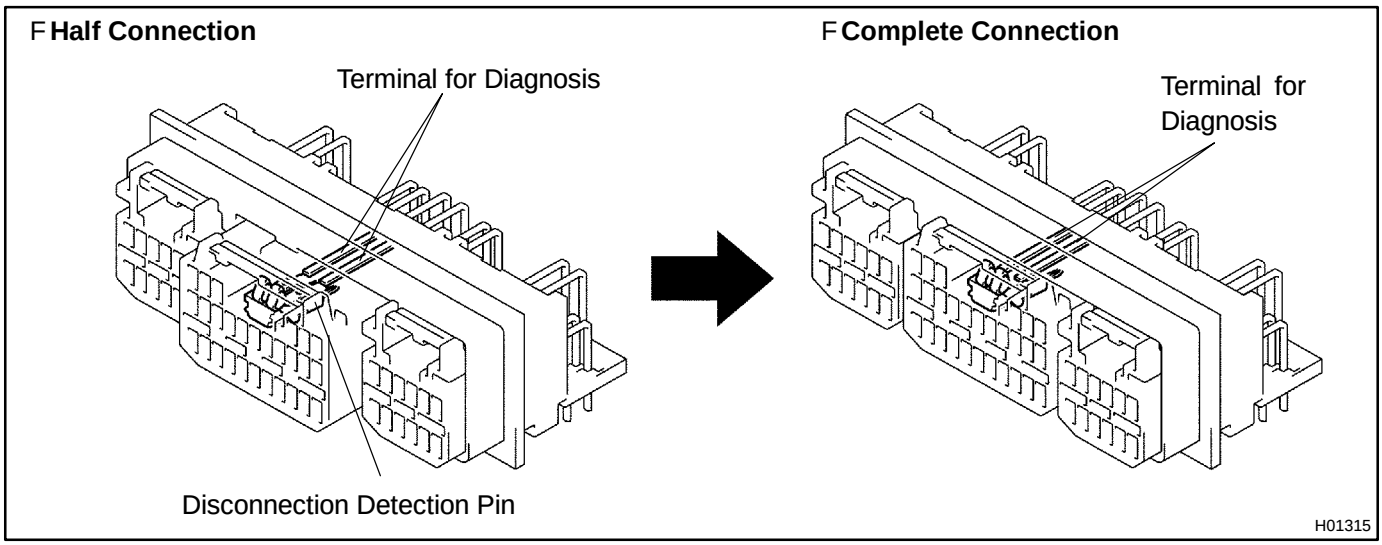
(2) Activation prevention mechanism:
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects positive (+) terminal and negative (-) terminal of the squib.



HINT:
The type of connector is shown in the diagram on the previous page.

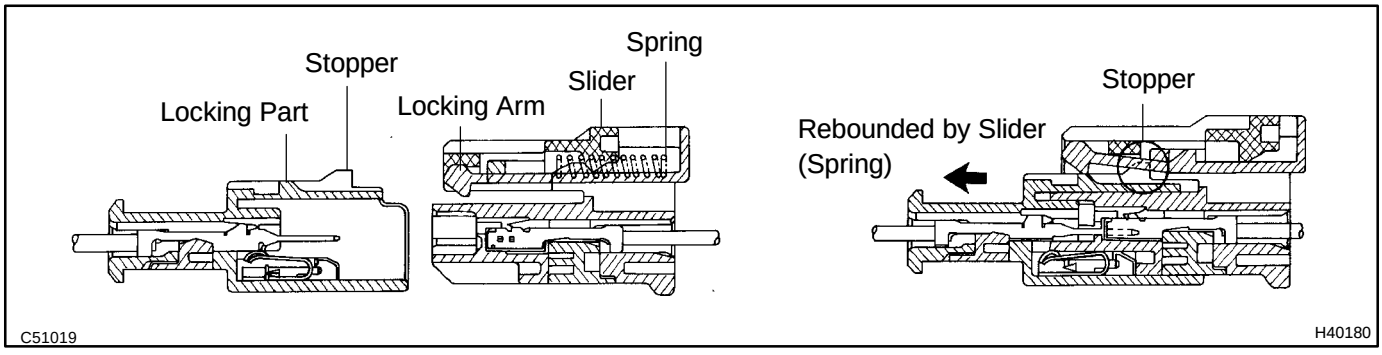


(3) Electrical connection check mechanism:
This mechanism electrically checks that connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock is locked.

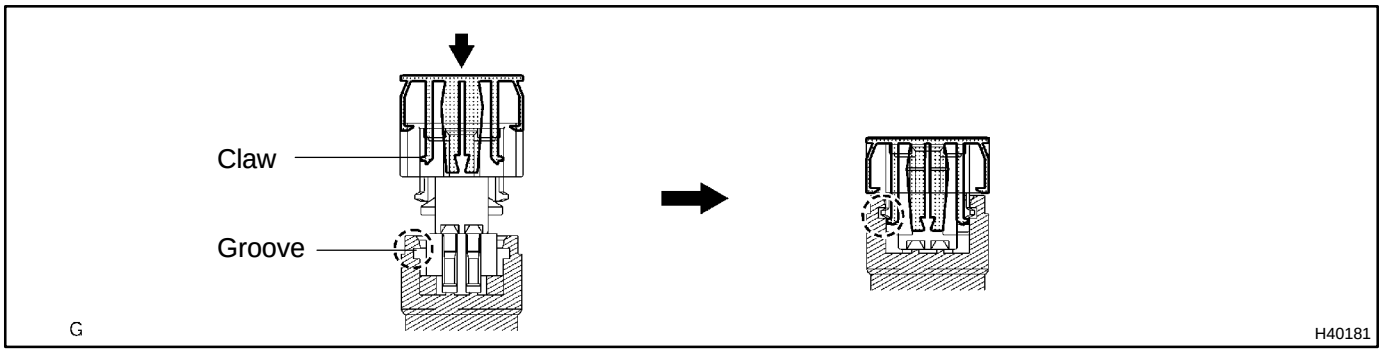


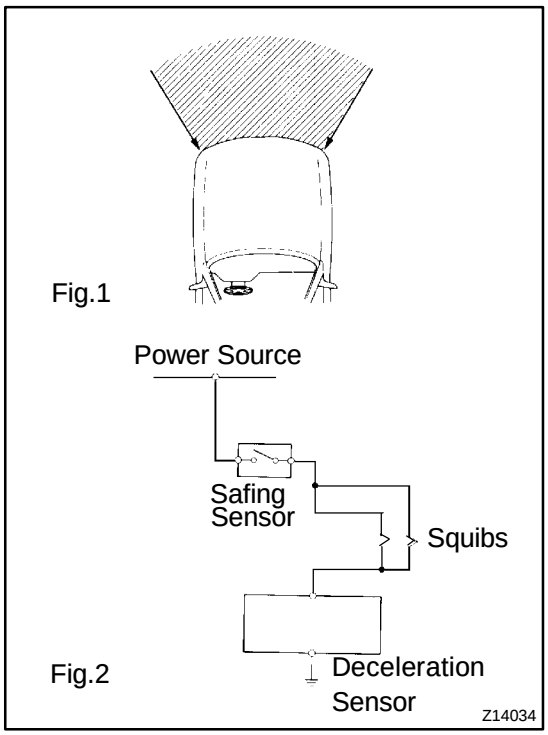
HINT:
The connectors shown in this illustration are connectors, ”1”, ”2” ”3” and ”4” in the step 1.

(4) Half connection prevention mechanism:
If the connector is not completely connected, the connector is disconnected due to the spring operation to the extent that no continuity exists.



(5) Connector lock mechanism:
Locking the connector lock button connects the connector securely.





(b) When the vehicle is involved in a frontal collision in the hatched area (Fig. 1) and the shock is larger than the predetermined level, the SRS is activated automatically. The safing sensor is designed to go on at a smaller deceleration rate than the one of airbag sensor. As illustrated in the Fig. 2, ignition is caused when current flows to the squib, which happens when the safing sensor and the deceleration sensor go on simultaneously. When a deceleration force acts on the sensors, 2 squibs in the driver airbag and front passenger airbag ignite and generate gas. The gas discharging into the driver airbag and front passenger airbag rapidly increases the pressure inside the bags, breaking the horn button assy and instrument panel. The inflation of the bag then ends, and the bags deflate as the gas is discharged through discharge holes at the bag's rear or side.

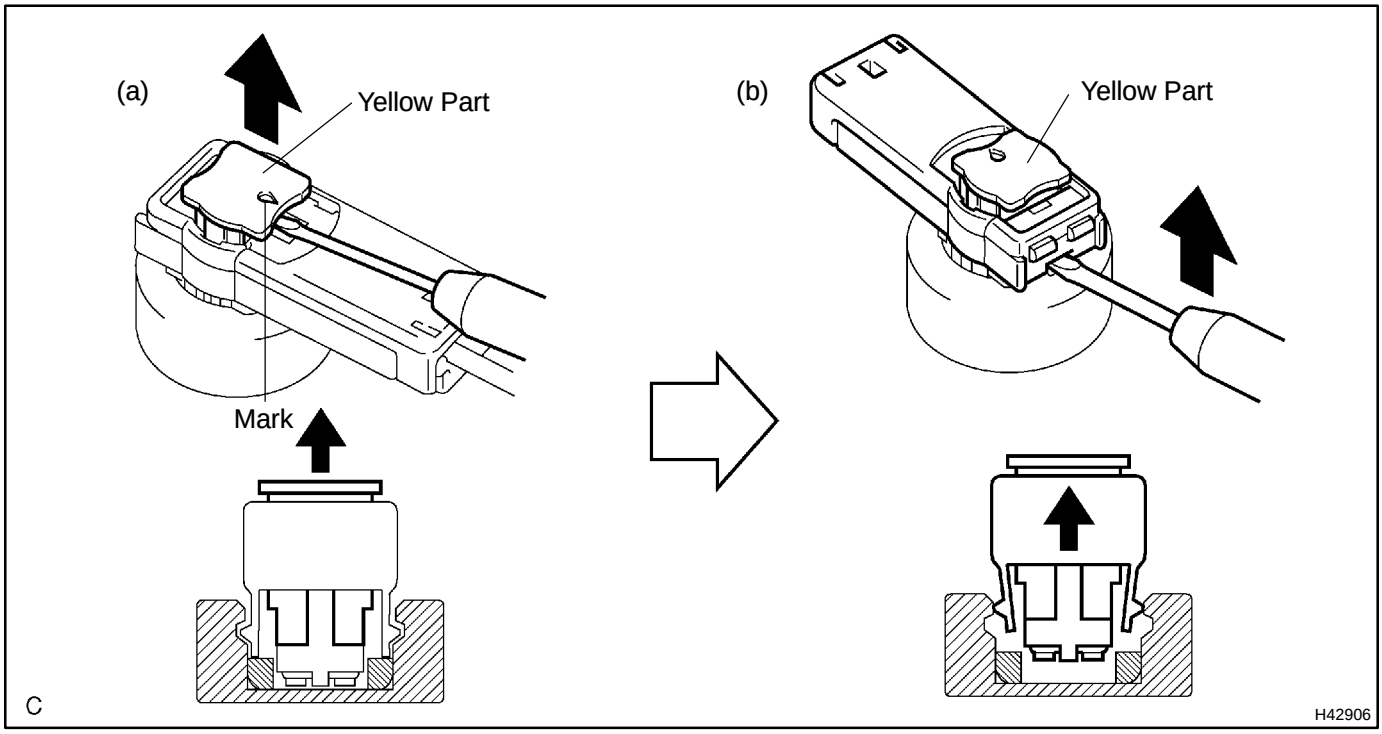
2. DISCONNECTION OF CONNECTORS FOR HORN BUTTON ASSY AND CURTAIN SHIELD AIR-BAG ASSY

HINT:

Tape up the screwdriver tip before use.

(a) Release the yellow part of the connector using a screwdriver.

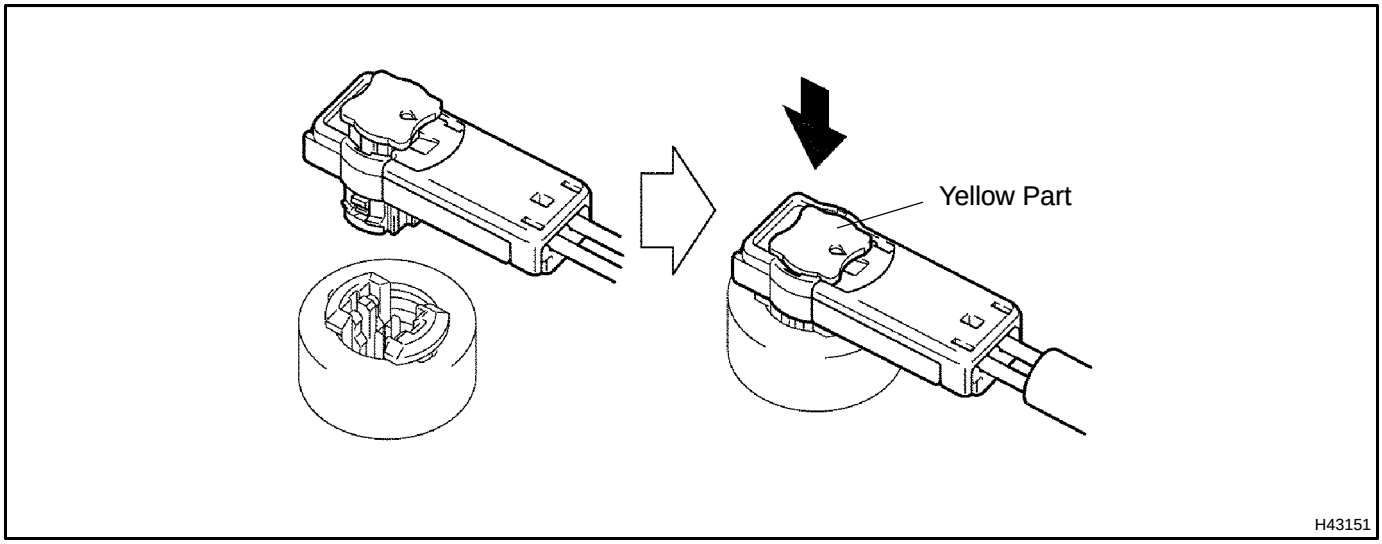
(b) Insert a screwdriver tip between the connector and the base and lever up connector.



3. DISCONNECTION OF CONNECTORS FOR HORN BUTTON ASSY AND CURTAIN SHIELD AIR-BAG ASSY

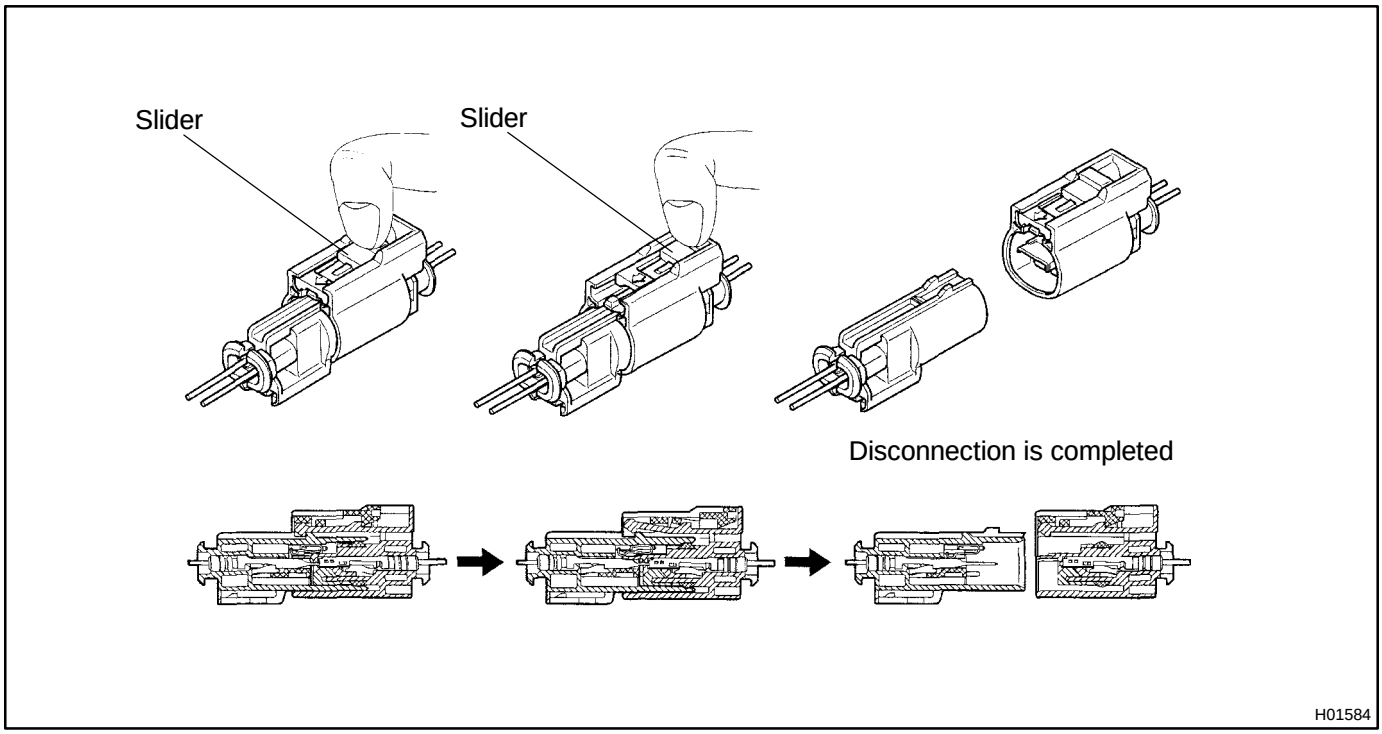
(a) Connect the connector.

(b) Push down securely on the yellow part of the connector.



4. DISCONNECTION OF CONNECTOR FRONT SEAT AIRBAG ASSY

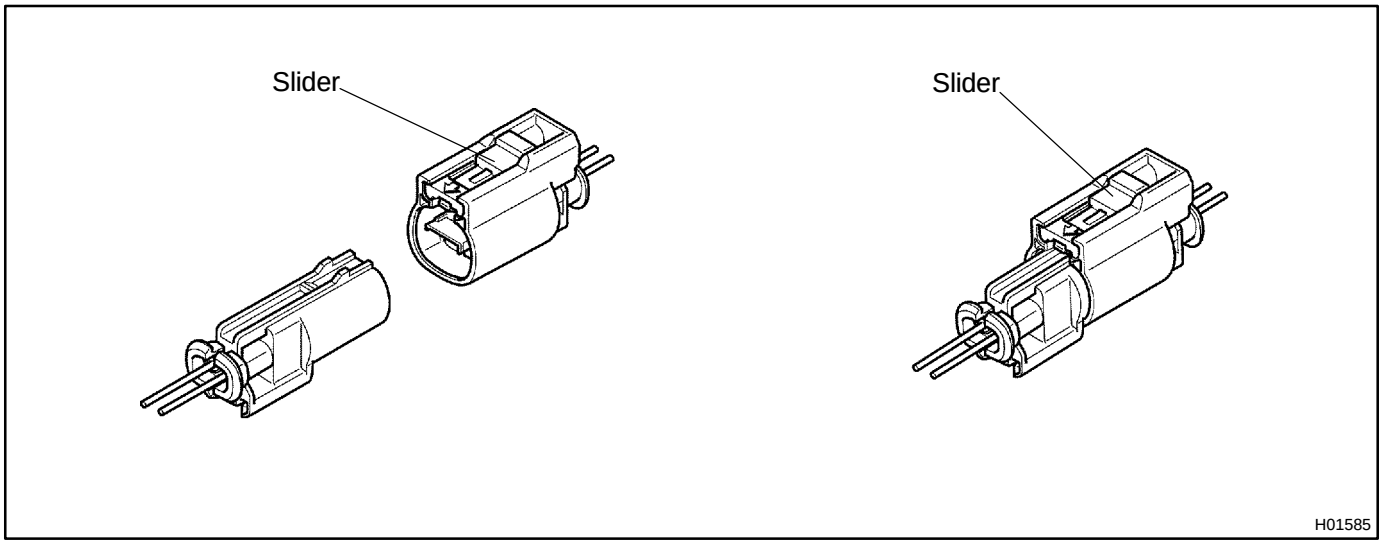
(a) Place a finger on the slider.
(b) Slide the slider to release lock.
(c) Disconnect the connector.

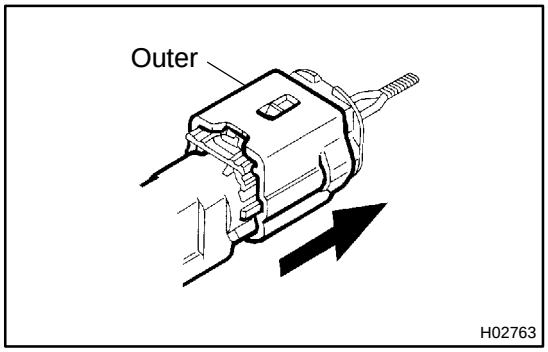


5. CONNECTION OF CONNECTOR FOR FRONT SEAT AIRBAG ASSY

(a) Align a lock part of male connector and a slider of female connector in the same direction as shown in the illustration, fit them in without rubbing.
(b) Be sure to insert the connectors until they are locked. After inserting, in pull them slightly to check that they are locked. (When locking, make sure that the slider returns to its original position and click sound can be heard.)

HINT:
Be sure not to touch the slider while fitting, as it may interfere with the a secure fit.





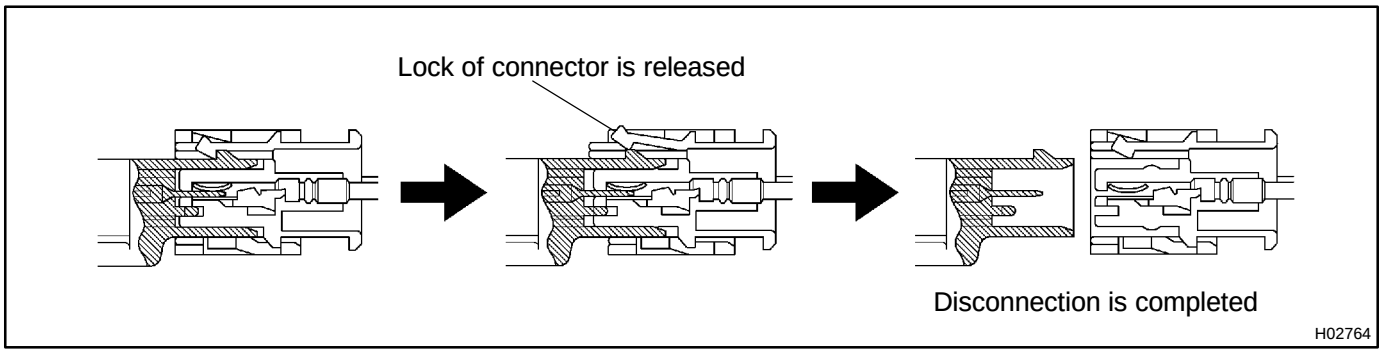
6. DISCONNECTION OF AIRBAG FRONT SENSOR, SIDE AIRBAG SENSOR AND AIRBAG SENSOR REAR CONNECTOR

(a) While holding both flank sides of the outer, slide the outer towards the direction shown by an arrow.

(b) Lock of the connectors is released, then connectors are disconnect.

HINT:

Be sure to hold both flank sides of the outer. If holding the top and bottom sides, it will obstruct disconnection.



7. CONNECTION OF CONNECTORS FOR AIRBAG FRONT SENSOR, SIDE AIRBAG SENSOR AND AIRBAG SENSOR REAR

(a) Align the male connector (on the side of sensor) and female connector in the same direction as shown in the illustration and fit them in without rubbing.

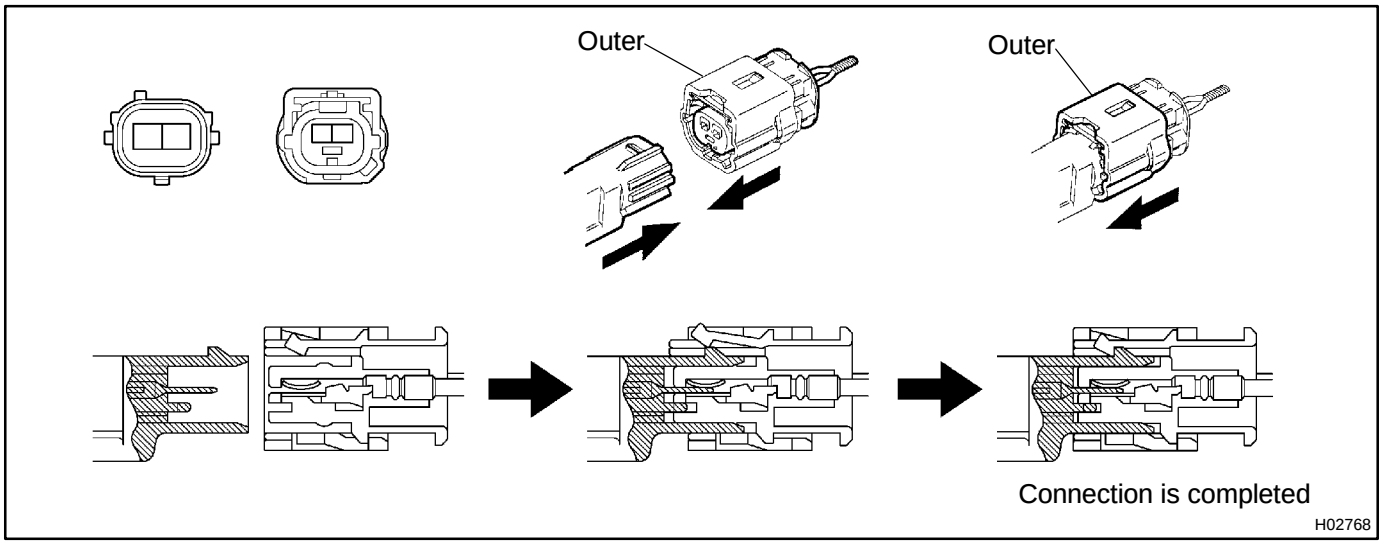
(b) As they are inserted, the outer slides backward, press then until the outer returns to its original position.

If fitting stops halfway, connectors will be separated.

(c) Be sure to insert until they are locked. After inserting, pull them slightly to check that they are locked. (When locking, make sure that the outer returns to its original position and click sound in can be heard.)

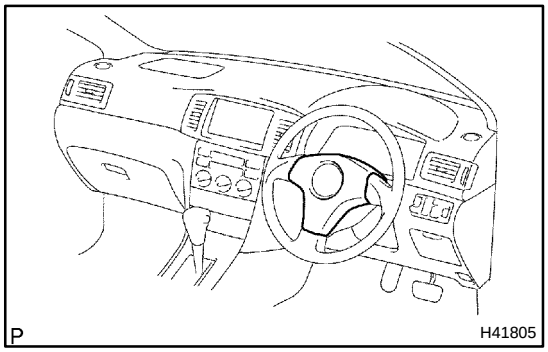
HINT:

When fitting in, the outer slides. Be sure not to hold the outer while fitting, as it may interfere with a secure fit.



600JA-01

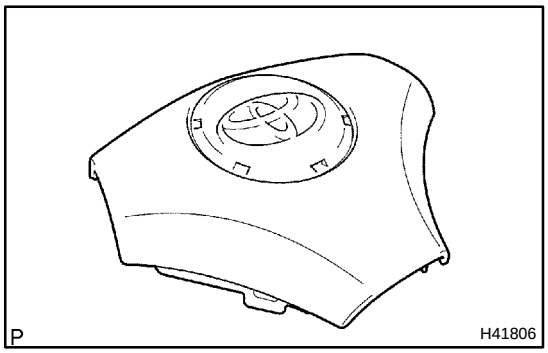
ON-VEHICLE INSPECTION



1. HORN BUTTON ASSY (VEHICLES NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check which includes the following item with the horn button assy (with airbag) installed in the vehicle: cuts, minute cracks or marked discoloration on the horn button assy top surface and in the grooved portion.

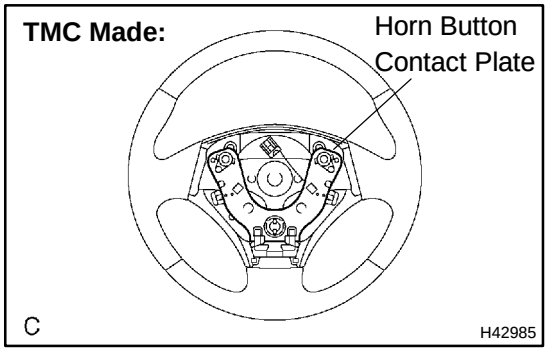


2. HORN BUTTON ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check which includes the following items with the horn button assy (with airbag) removed from the vehicle:

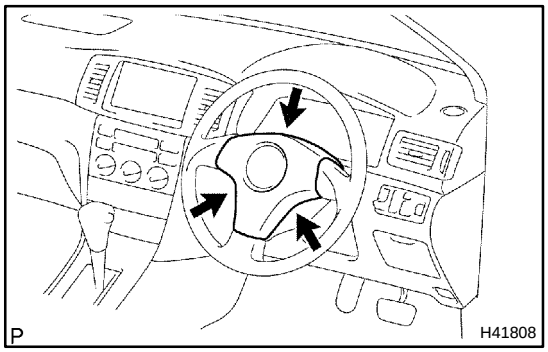
- Cuts, minute cracks or marked discoloration on the horn button assy.
- Cuts and cracks in wire harness, and chipping in the connectors.
- The deformation on the horn button assy.



- The deformation on the horn button contact plate of the steering wheel assy.

HINT:

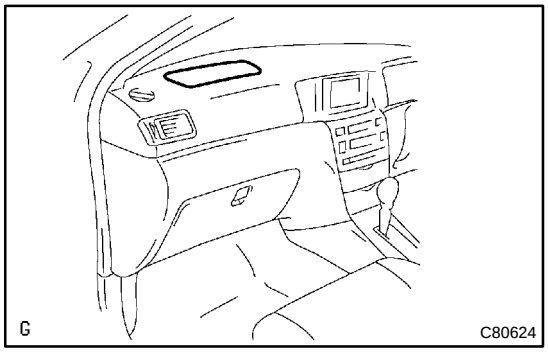
- If the horn button contact plate of the steering wheel assy is deformed, replace it with a new one. Always replace the steering wheel assy with a new one.
- Never repair it in order for reuse or replacement.



- There should be no interference between the horn button assy and steering wheel assy, and the clearance should be uniform all the way around when the new horn button assy is installed on the steering wheel assy.

CAUTION:

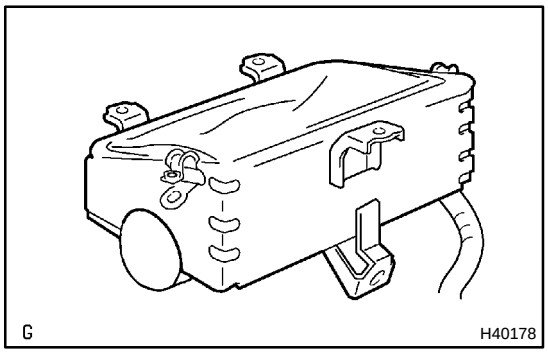
For removal and installation procedures of the horn button assy, see "Replacement" on Pub. No. RM925E, page 60–13, and be sure to follow the correct procedure.



3. INSTR PNL PASS L/DOOR AIRBAG ASSY (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check which includes the following item with the instr pnl pass l/door airbag assy installed in the vehicle: cuts, minute cracks or marked discoloration on the instr pnl pass l/door airbag assy and instrument panel.



4. INSTR PNL PASS L/DOOR AIRBAG ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check of the instr pnl pass l/door airbag assy removed from the vehicle:

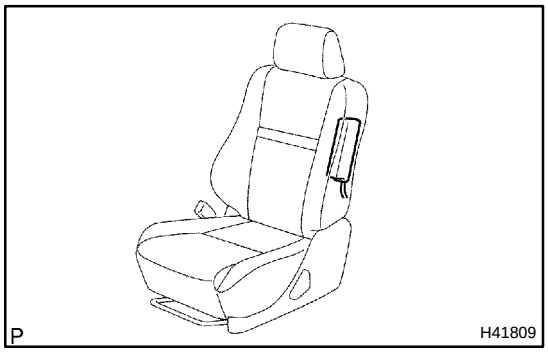
- Cuts, minute cracks or marked discoloration on the instr pnl pass l/door airbag assy.
- Cuts and cracks in wire harness, and for chipping in connectors.
- The deformation or cracks on the instrument panel and instrument panel reinforcement.

HINT:

If the instrument panel or instrument panel reinforcement is deformed or cracked, never repair it. Always replace it with a new one.

CAUTION:

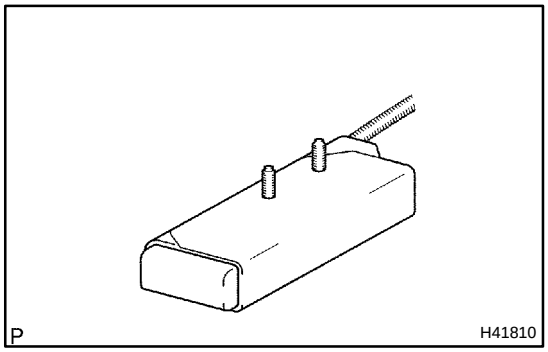
For removal and installation procedures of the instr pnl pass l/door airbag assy, see "Replacement" on Pub. No. RM925E, page 60–25, and be sure to follow the correct procedure.



5. FRONT SEAT AIRBAG ASSY (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check which includes the following item with the front seat airbag assy installed in the vehicle: cuts, minute cracks or marked discoloration on the front seat airbag assy.

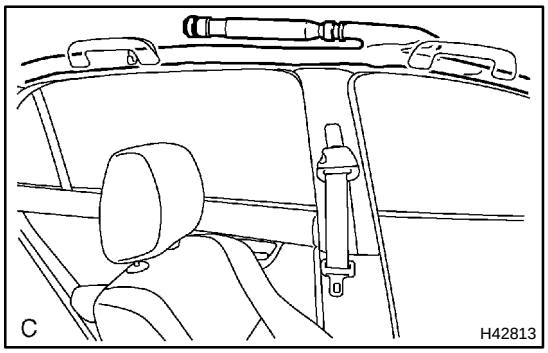


6. FRONT SEAT AIRBAG ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check of the front seat airbag assy removed from the vehicle:

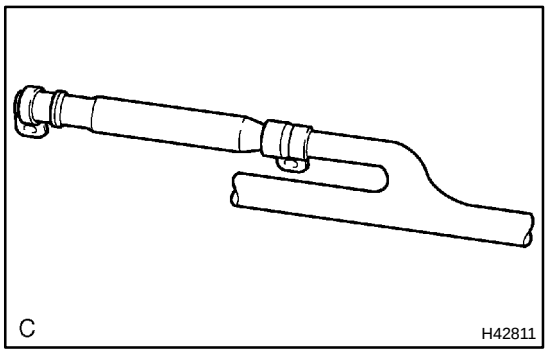
- Cuts, minute cracks or marked discoloration on the front seat airbag assy.
- Cuts and cracks in wire harness, and for chipping in connectors.



7. CURTAIN SHIELD AIRBAG ASSY (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check of the curtain shield airbag assy installed in the vehicle: cuts, minute cracks or marked discoloration on the curtain shield airbag assy.



8. CURTAIN SHIELD AIRBAG ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) Do a visual check of the curtain shield airbag assy removed from the vehicle:

- Cuts, minute cracks or marked discoloration on the curtain shield airbag assy.
- Cuts and cracks in wire harness, and for chipping in connectors.

9. AIRBAG SENSOR ASSY CENTER (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

10. AIRBAG SENSOR ASSY CENTER (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

11. AIRBAG SENSOR ASSY CENTER (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)

(a) Replace the airbag sensor assy center (See Pub. No. RM 925E, page 60–38).

12. AIRBAG FRONT SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

13. AIRBAG FRONT SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) When the front fender of the vehicle or its periphery is damaged, check the airbag front sensor if there is any damage in it.

If there are any defects as mentioned below, replace the airbag front sensor with a new one:

- Cracks, dents or chips in the case.
- Cracks, dents, chipping and scratches in the connector.
- Peeling off of the label or damage to the serial number.

14. AIRBAG FRONT SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)

(a) Replace the airbag front sensor assy (See Pub. No. RM 925E, page 60–40).

15. SIDE AIRBAG SENSOR ASSY (VEHICLES NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

16. SIDE AIRBAG SENSOR ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) When the center pillar of the vehicle or its periphery is damaged, check the side airbag sensor if there is any damage in it.

If there are any defects as mentioned below, replace the side airbag sensor with a new one:

- Cracks, dents or chips in the case.
- Cracks, dents, chipping and scratches in the connector.
- Peeling off of the label or damage to the serial number.

17. SIDE AIRBAG SENSOR ASSY (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)

(a) Replace the front seat airbag assy and side airbag sensor assy (See Pub. No. RM 925E, page 60–44, 60–46).

18. AIRBAG SENSOR REAR (VEHICLE NOT INVOLVED IN COLLISION)

(a) Do a diagnostic system check (See page 05–4).

19. AIRBAG SENSOR REAR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS NOT DEPLOYED)

(a) Do a diagnostic system check (See page 05–4).

(b) When the quarter panel of the vehicle or its periphery is damaged, check the airbag sensor rear if there is any damage in it.

If there are any defects as mentioned below, replace the airbag sensor rear with a new one:

- Cracks, dents or chips in the case.
- Cracks, dents, chipping and scratches in the connector.
- Peeling off of the label or damage to the serial number.

20. AIRBAG SENSOR REAR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)

(a) Replace the front seat airbag assy and side airbag sensor assy (See page 05–4).

21. WIRE HARNESS AND CONNECTOR (VEHICLE NOT INVOLVED IN COLLISION)

Do a diagnostic system check.

22. WIRE HARNESS AND CONNECTOR (VEHICLE INVOLVED IN COLLISION)

(a) Do a diagnostic system check.

(b) Check breaks in all wires of the SRS wire harness, and exposed conductors.

(c) Check to see if the SRS wire harness connectors are cracked or chipped.

HINT:

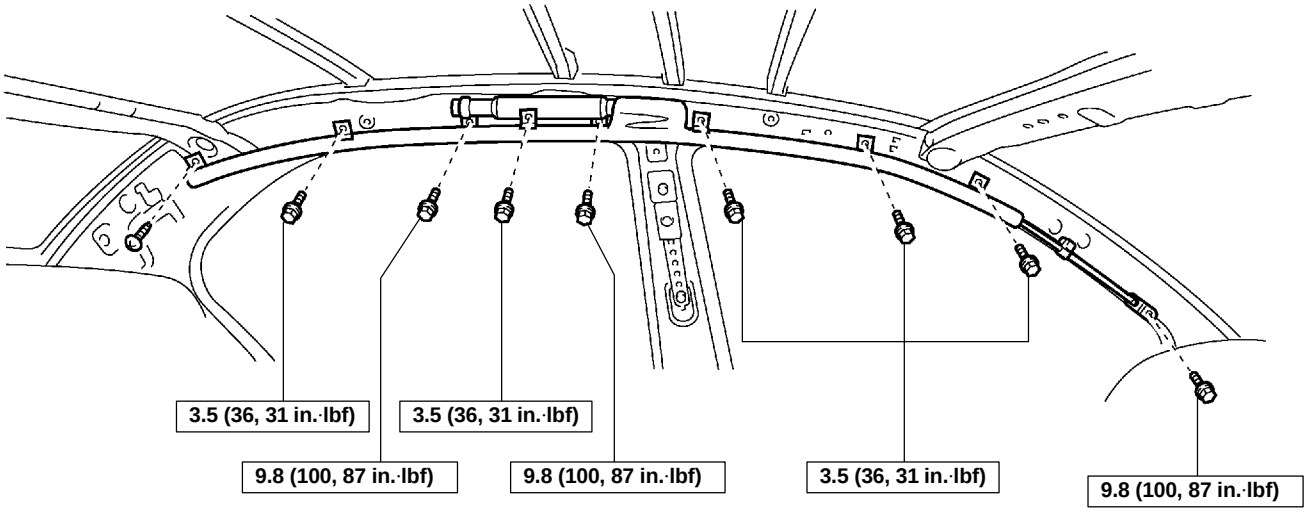
The SRS wire harness is integrated with the engine room main wire, instrument panel wire and floor wire.

CURTAIN SHIELD AIR BAG ASSY LH (Jan., 2003)

600JB-01

COMPONENTS

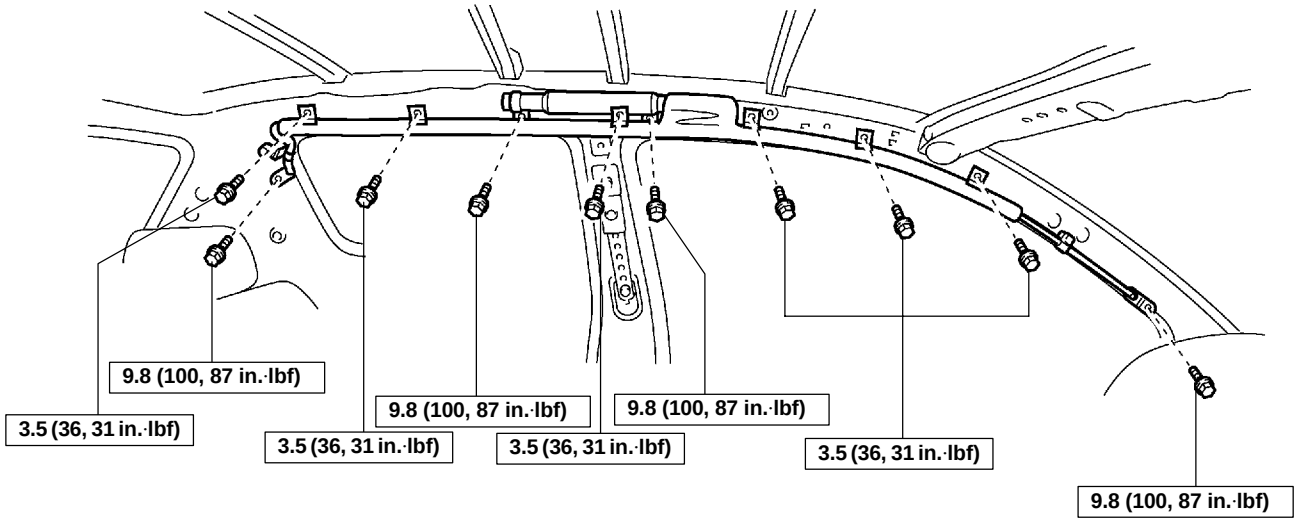
Sedan Body Type:



C N·m (kgf·cm, ft·lbf) : Specified torque

H42802

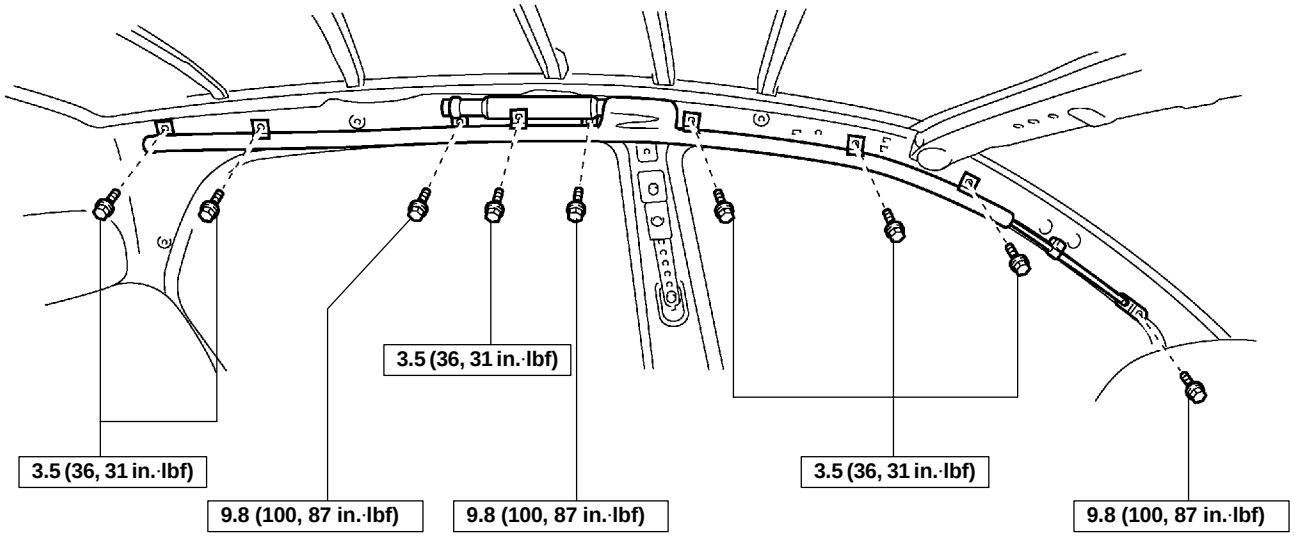
3 Door Hatchback Body Type:



C N·m (kgf·cm, ft·lbf) : Specified torque

H42803

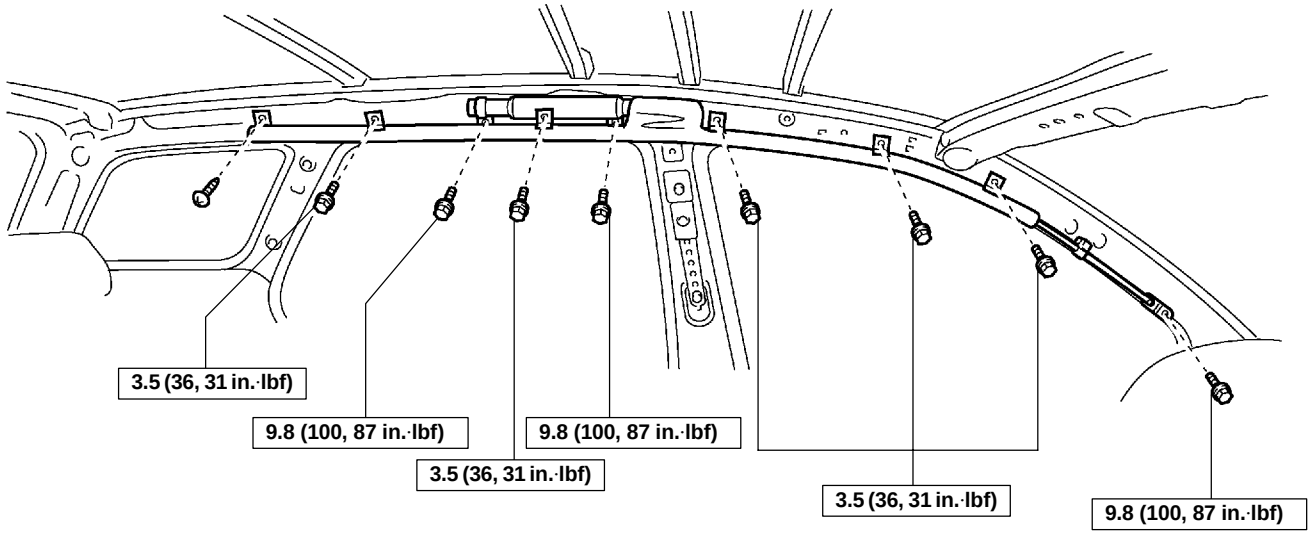
5 Door Hatchback Body Type:



C N·m (kgf·cm, ft·lbf) : Specified torque

H42804

Wagon Body Type:



C N·m (kgf·cm, ft·lbf) : Specified torque

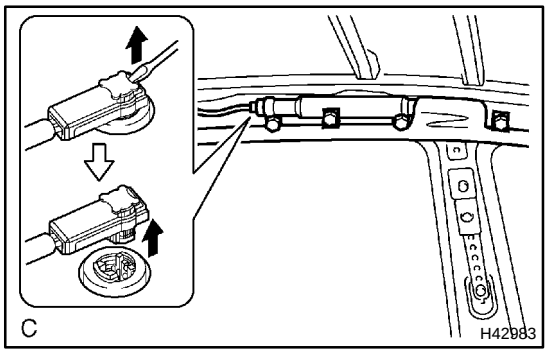
H42805

REPLACEMENT

HINT:

Replacement procedure of the RH side is the same as that of the LH side.

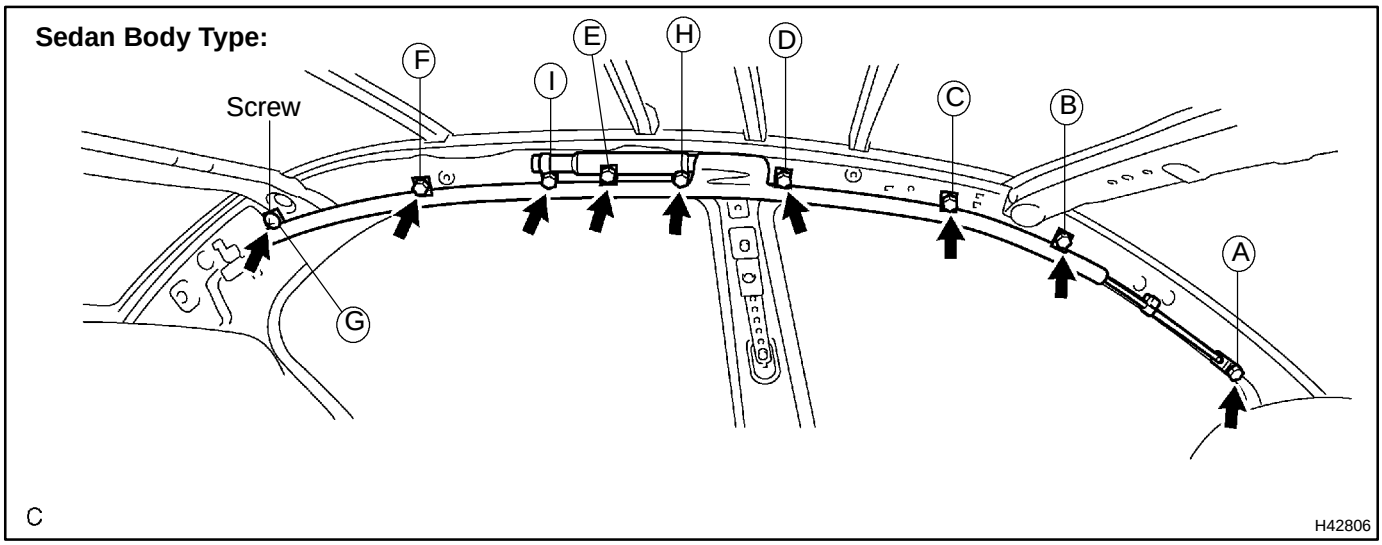
1. **PRECAUTION (See page 60-1)**
2. **DISCONNECT BATTERY NEGATIVE TERMINAL (See page 60-1)**
3. **REMOVE ROOF HEADLINING ASSY (SEDAN BODY TYPE) (See page 76-10)**
4. **REMOVE ROOF HEADLINING ASSY (3 DOOR HATCH BACK BODY TYPE) (See page 76-26)**
5. **REMOVE ROOF HEADLINING ASSY (5 DOOR HATCH BACK BODY TYPE) (See page 76-34)**
6. **REMOVE ROOF HEADLINING ASSY (WAGON BODY TYPE) (See page 76-18)**

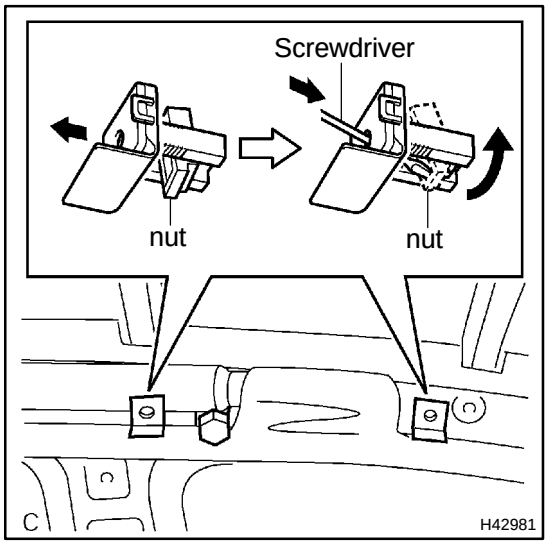


7. **REMOVE CURTAIN SHIELD AIR BAG ASSY LH (SEDAN BODY TYPE)**

(a) Using a screwdriver, disconnect the connector of the curtain shied airbag assy LH.

(b) Remove the 6 bolts in order of A to F as shown in the illustration.





(c) Using a screwdriver as shown in the illustration and turn the nut on the clip 90_ degrees in order as follows.

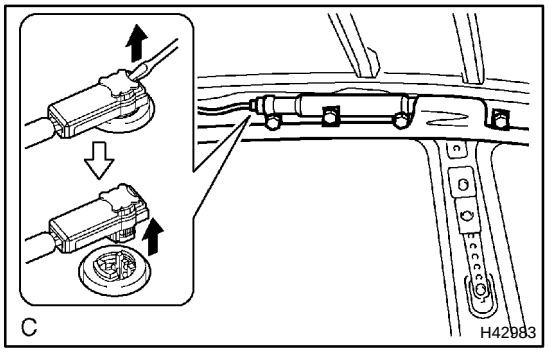
B → C → D → E → F

NOTICE:

When removing the curtain shield airbag assy LH, be sure to follow the procedure above. If the parts are forcibly removed, the vehicle body will be damaged.

(d) After removing the screw and the 2 bolts in order as follows, remove the curtain shield airbag assy LH.

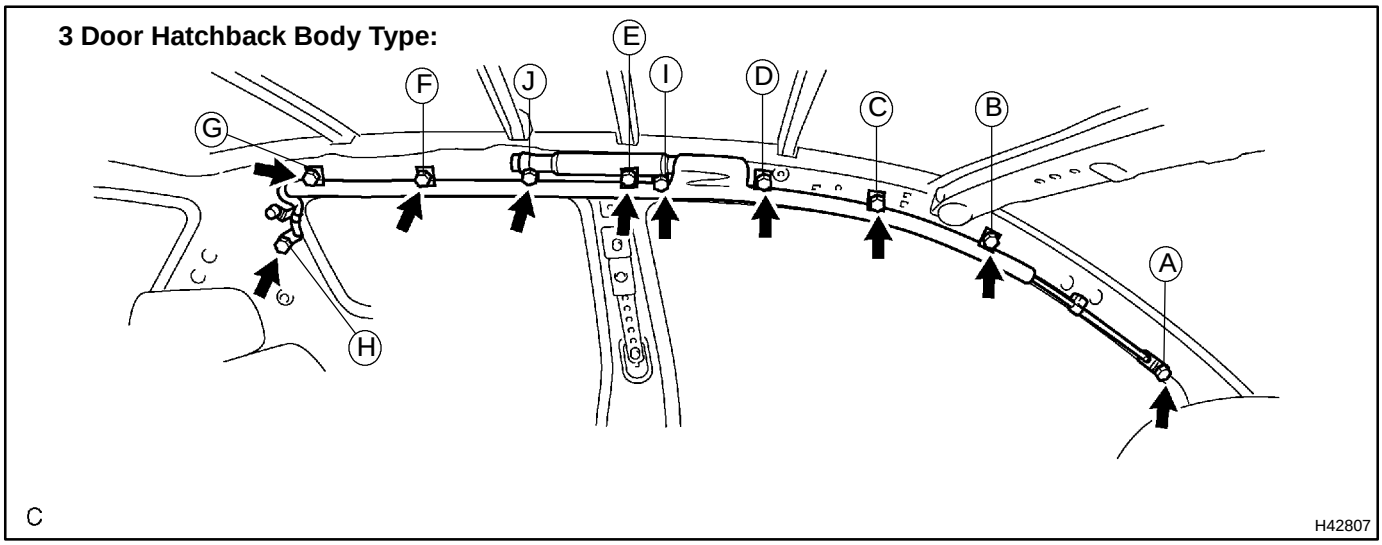
G → H → I

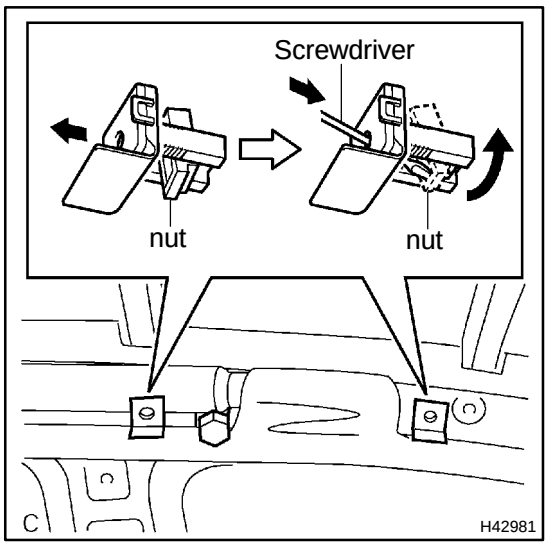


8. REMOVE CURTAIN SHIELD AIR BAG ASSY LH (3 DOOR HATCH BACK BODY TYPE)

(a) Using a screwdriver, disconnect the connector of the curtain shied airbag assy LH.

(b) Remove the 7 bolts in order of A to G as shown in the illustration.



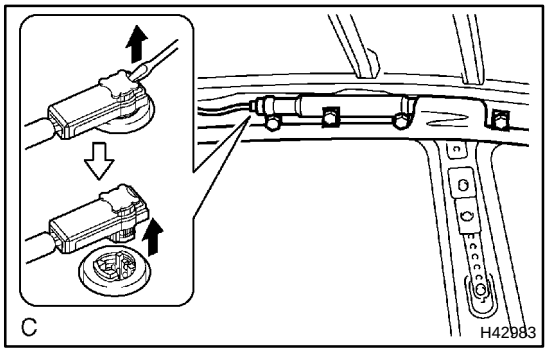


(c) Using a screwdriver as shown in the illustration and turn the nut on the clip 90_ degrees in order as follows.
B → C → D → E → F → G

NOTICE:

When removing the curtain shield airbag assy LH, be sure to follow the procedure above. If the parts are forcibly removed, the vehicle body will be damaged.

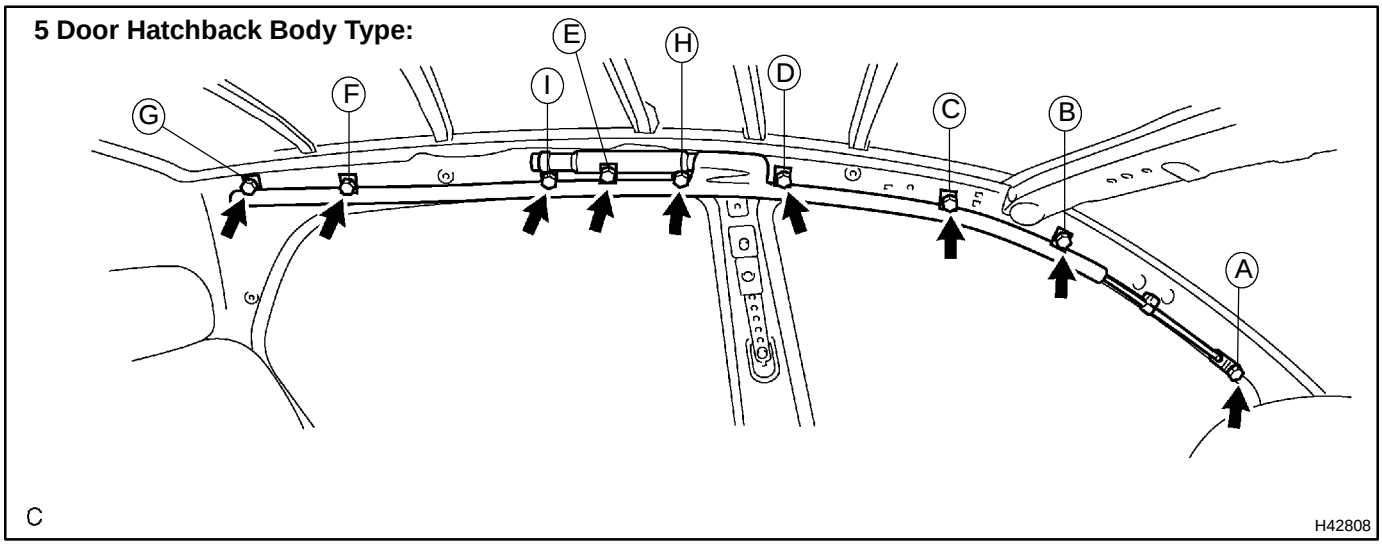
(d) After removing the 3 bolts in order as follows, remove the curtain shield airbag assy LH.
H → I → J

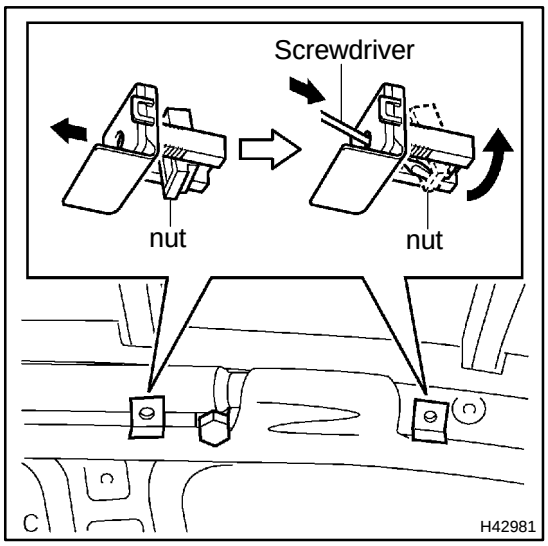


9. REMOVE CURTAIN SHIELD AIR BAG ASSY LH (5 DOOR HATCH BACK BODY TYPE)

(a) Using a screwdriver, disconnect the connector of the curtain shied airbag assy LH.

(b) Remove the 7 bolts in order of A to G as shown in the illustration.



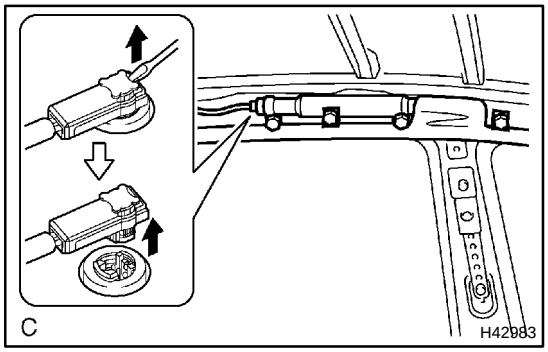


(c) Using a screwdriver as shown in the illustration and turn the nut on the clip 90_ degrees in order as follows.
B → C → D → E → F → G

NOTICE:

When removing the curtain shield airbag assy LH, be sure to follow the procedure above. If the parts are forcibly removed, the vehicle body will be damaged.

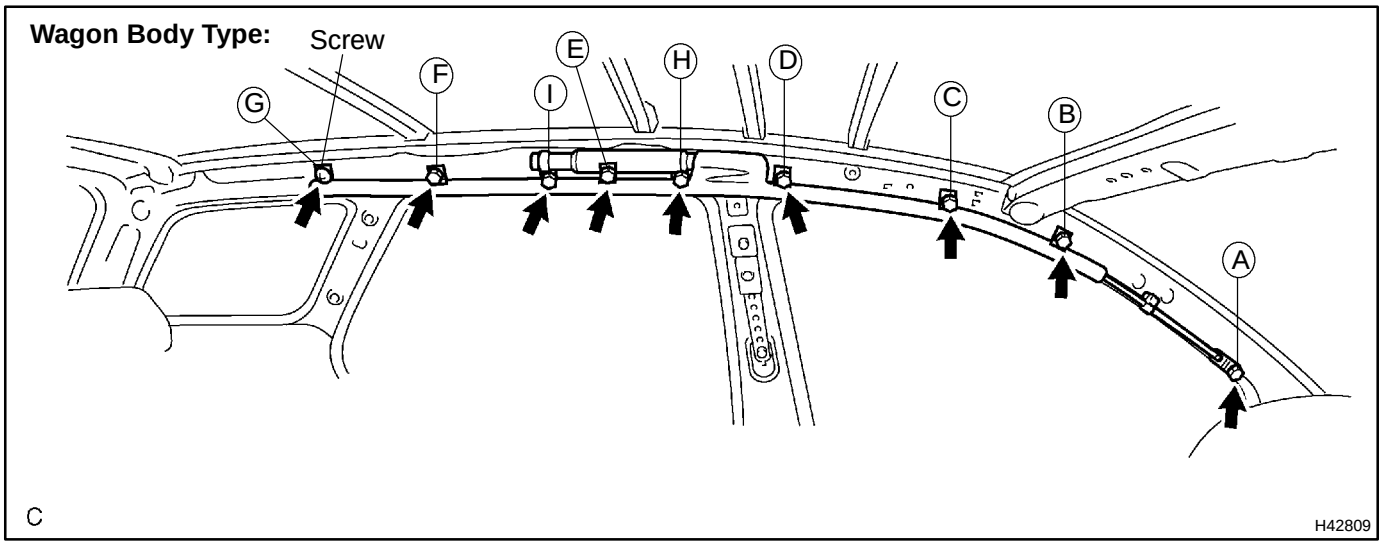
(d) After removing the 2 bolts in order as follows, remove the curtain shield airbag assy LH.
H → I

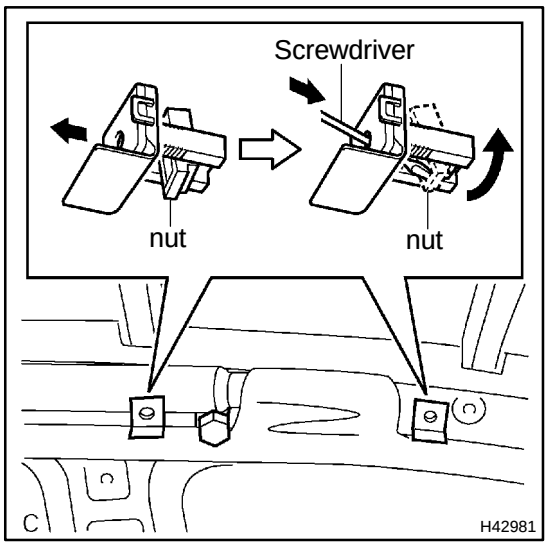


10. REMOVE CURTAIN SHIELD AIR BAG ASSY LH (WAGON BODY TYPE)

(a) Using a screwdriver, disconnect the connector of the curtain shied airbag assy LH.

(b) Remove the 6 bolts in order of A to F as shown in the illustration.





(c) Using a screwdriver as shown in the illustration and turn the nut on the clip 90_ degrees in order as follows.
B → C → D → E → F

NOTICE:

When removing the curtain shield airbag assy LH, be sure to follow the procedure above. If the parts are forcibly removed, the vehicle body will be damaged.

(d) After removing the screw and the 2 bolts in order as follows, remove the curtain shield airbag assy LH.
G → H → I

11. INSTALL CURTAIN SHIELD AIR BAG ASSY LH (SEDAN BODY TYPE)

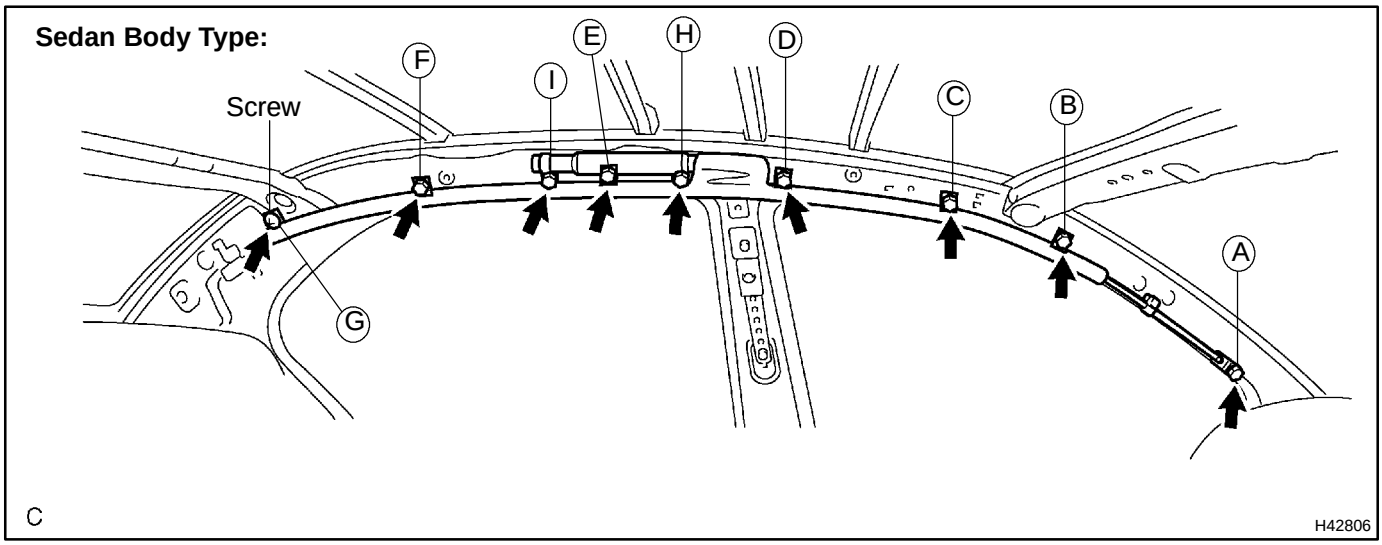
(a) Temporarily install the curtain shield airbag assy LH with the 8 bolts and screw in order of H to A as shown in the illustration.

(b) Securely tighten the 8 bolts and screw.

Torque:

Bolt A, H, I: 9.8 N·m (100 kgf·cm, 87 in.·lbf)

Bolt B, C, D, E, F: 3.5 N·m (36 kgf·cm, 31 in.·lbf)



12. INSTALL CURTAIN SHIELD AIR BAG ASSY LH (3 DOOR HATCH BACK BODY TYPE)

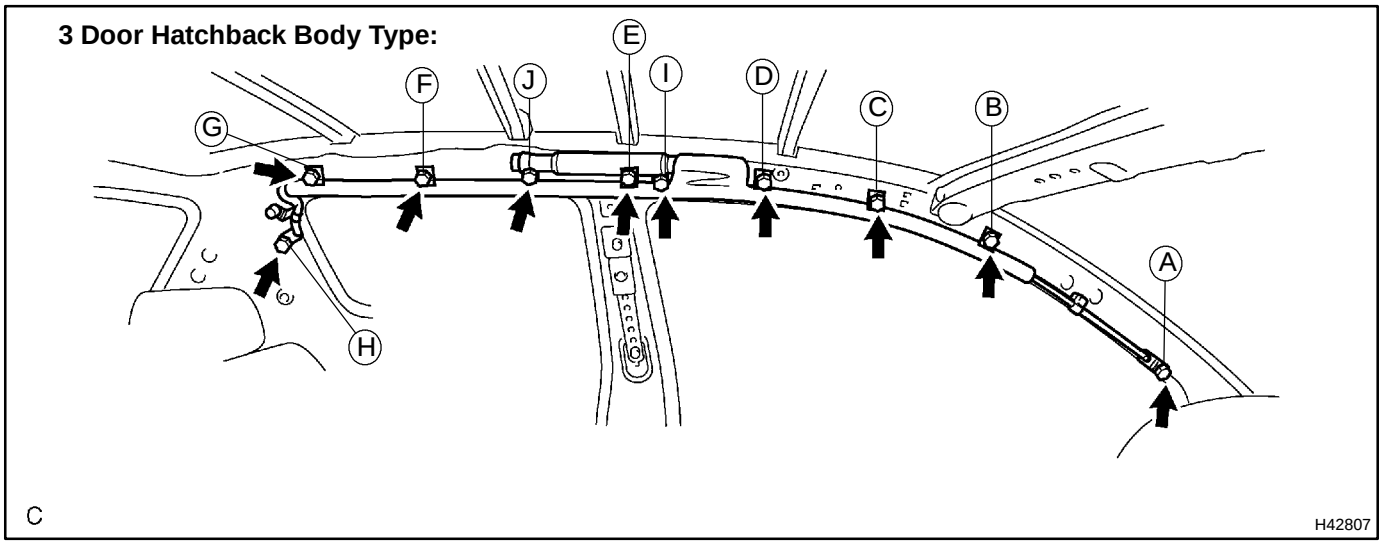
(a) Temporarily install the curtain shield airbag assy LH with the 10 bolts in order of H to A as shown in the illustration.

(b) Securely tighten the 10 bolts.

Torque:

Bolt A, H, I, J: 9.8 N·m (100 kgf·cm, 87 in.·lbf)

Bolt B, C, D, E, F, G: 3.5 N·m (36 kgf·cm, 31 in.·lbf)

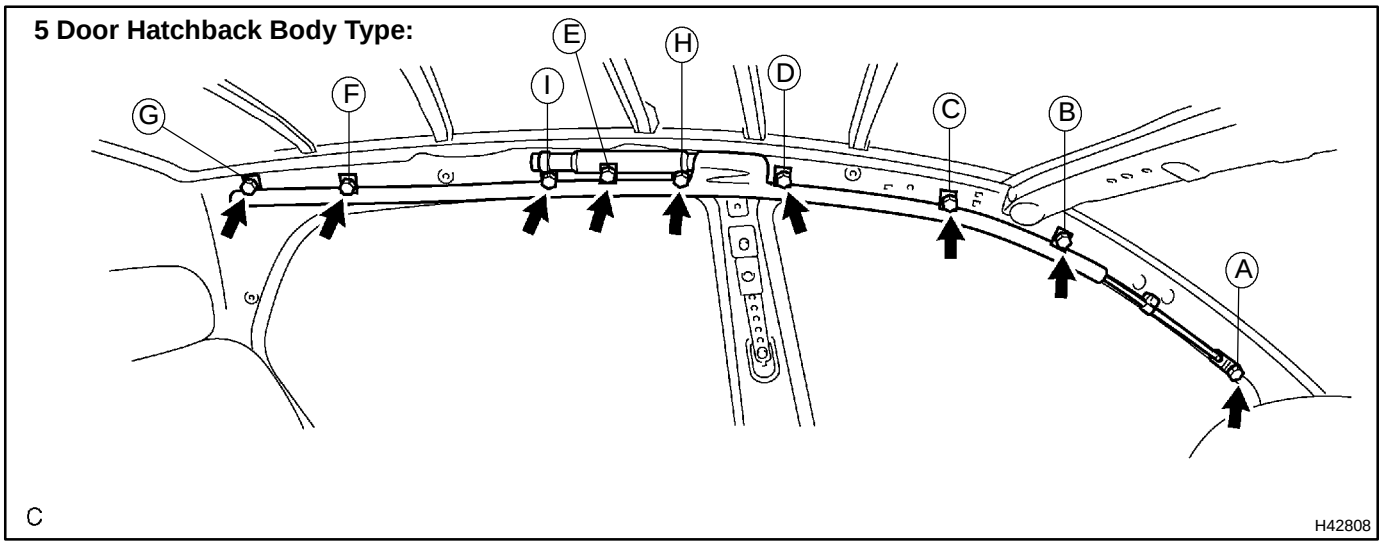


13. INSTALL CURTAIN SHIELD AIR BAG ASSY LH (5 DOOR HATCH BACK BODY TYPE)

(a) Temporarily install the curtain shield airbag assy LH with the 9 bolts in order of H to A as shown in the illustration.

(b) Securely tighten the 9 bolts.

Torque:
Bolt A, H, I: 9.8 N·m (100 kgf·cm, 87 in.·lbf)
Bolt B, C, D, E, F, G: 3.5 N·m (36 kgf·cm, 31 in.·lbf)

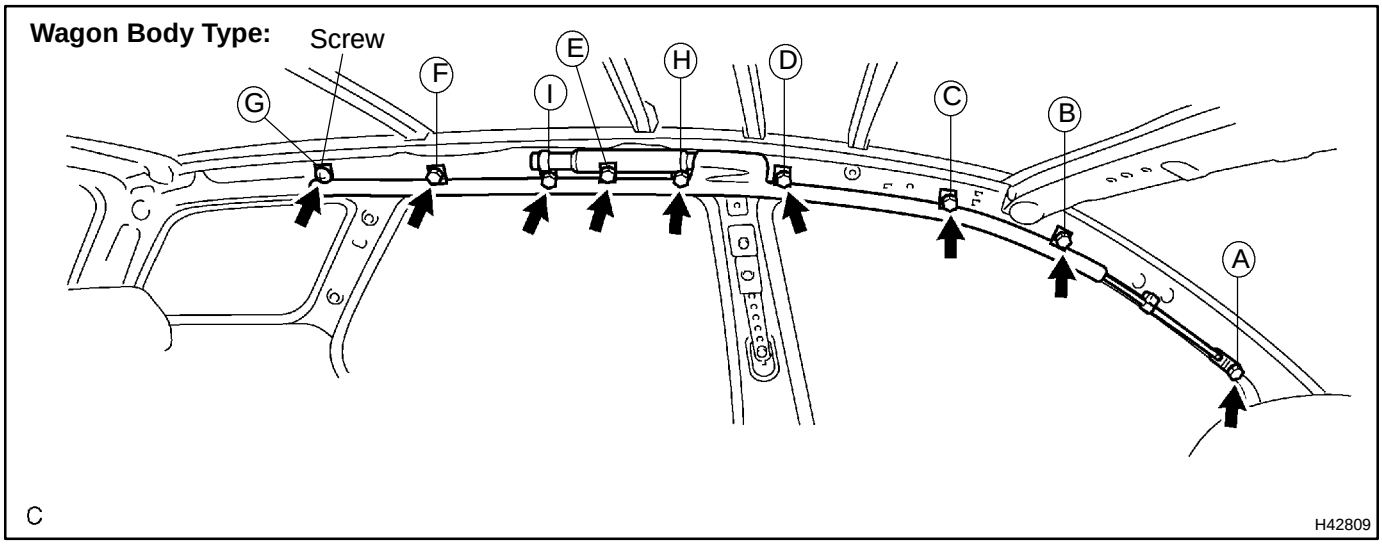


14. INSTALL CURTAIN SHIELD AIR BAG ASSY LH (WAGON BODY TYPE)

(a) Temporarily install the curtain shield airbag assy LH with the 8 bolts and screw in order of H to A as shown in the illustration.

(b) Securely tighten the 8 bolts and screw.

Torque:
Bolt A, H, I: 9.8 N·m (100 kgf·cm, 87 in.·lbf)
Bolt B, C, D, E, F: 3.5 N·m (36 kgf·cm, 31 in.·lbf)



15. **INSPECT CURTAIN SHIELD AIR BAG ASSY LH (See page 60-9)**
16. **INSTALL ROOF HEADLINING ASSY (SEDAN BODY TYPE) (See page 76-10)**
17. **INSTALL ROOF HEADLINING ASSY (3 DOOR HATCH BACK BODY TYPE) (See page 76-26)**
18. **INSTALL ROOF HEADLINING ASSY (5 DOOR HATCH BACK BODY TYPE) (See page 76-34)**
19. **INSTALL ROOF HEADLINING ASSY (WAGON BODY TYPE) (See page 76-18)**
20. **INSPECT SRS WARNING LIGHT (See page 05-4)**

600JD-01

DISPOSAL

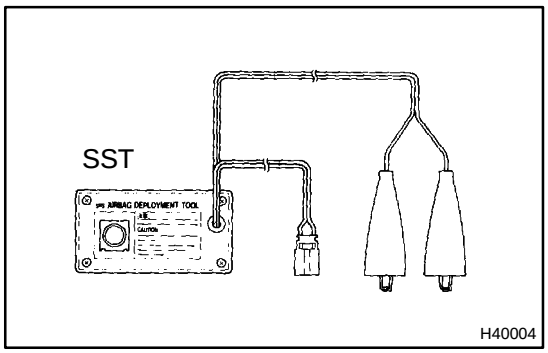
HINT:

Replacement procedure of the RH side is the same as that of the LH side.

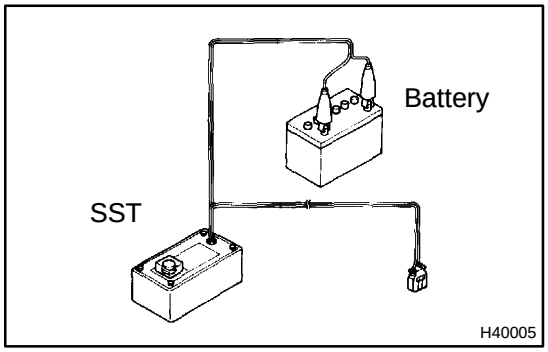
When scrapping a vehicle equipped with the SRS or disposing of a curtain shield airbag assy LH, always deploy the airbag first by following the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of the DISTRIBUTOR.

CAUTION:

- **Never dispose a curtain shield airbag assy LH which has an undeployed airbag.**
- **The airbag produces an extremely loud 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). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the curtain shield airbag assy LH.**
- **The curtain shield airbag assy LH 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 the curtain shield airbag assy LH with a deployed airbag.**
- **Do not apply water etc. to the curtain shield airbag assy LH with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**



1. DISPOSE OF CURTAIN SHIELD AIR BAG ASSY LH (WHEN SCRAPPING VEHICLE DEPLOYMENT METHOD)

HINT:

Prepare a battery for power source to deploy the airbag.

(a) Check the function of the SST (See Pub. No. RM 925E, page 60-14).

(b) Disconnect the airbag connector.

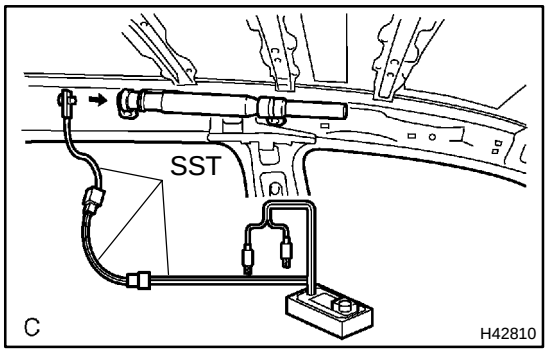
(1) Sedan Body Type:
Remove the roof headlining assy (See page 76-10).

(2) 3 Door Hatchback Body Type:
Remove the roof headlining assy (See page 76-26).

(3) 5 Door Hatchback Body Type:
Remove the roof headlining assy (See page 76-34).

(4) Wagon Body Type:
Remove the roof headlining assy (See page 76-18).

(5) Using a screwdriver, disconnect the curtain shield airbag assy LH connector (See page 60-17).



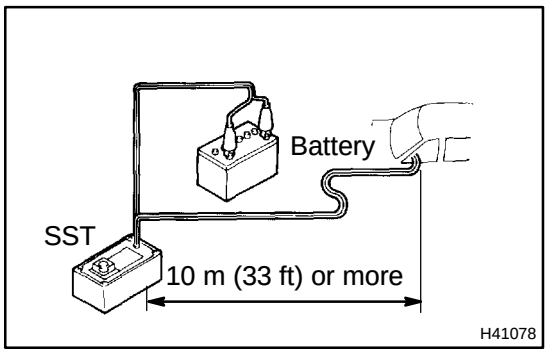
(c) Install the SST.

(1) Connect the connector of the SST to the curtain shield airbag assy LH.

SST 09082-00700, 09082-00802 (09082-10801, 09082-20801)

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.



(2) Move the SST at least 10 m (33 ft) away from the rear of the vehicle.

(3) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

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

(d) Deploy the airbag.

(1) Check that no one is inside the vehicle or within 10 m (33 ft) area around the vehicle.

(2) Press the activation switch of the SST and deploy the airbag.

HINT:

The airbag deploys as the LED of the SST activation switch comes on.

(e) Dispose of the curtain shield airbag assy LH.

CAUTION:

- **The curtain shield airbag assy LH 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 the curtain shield airbag assy LH with a deployed airbag.**
- **When a vehicle which has the curtain shield airbag assy LH with the deployed airbag is moved for scrapping, use gloves and safety glasses.**
- **Do not apply water, etc. to the curtain shield airbag assy LH with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

HINT:

When scrapping a vehicle, deploy the airbag and scrap the vehicle with the curtain shield airbag assy LH still installed.

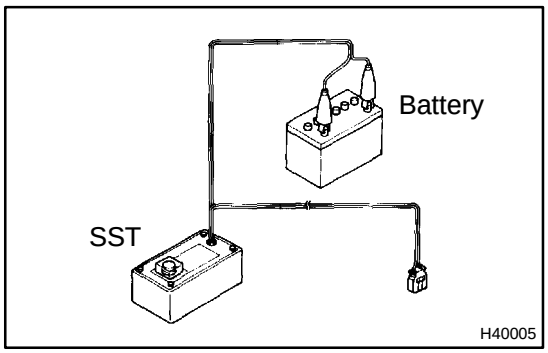
2. DISPOSE OF CURTAIN SHIELD AIR BAG ASSY LH (WHEN DISPOSING OF AIRBAG ASSEMBLY DEPLOYMENT METHOD)

NOTICE:

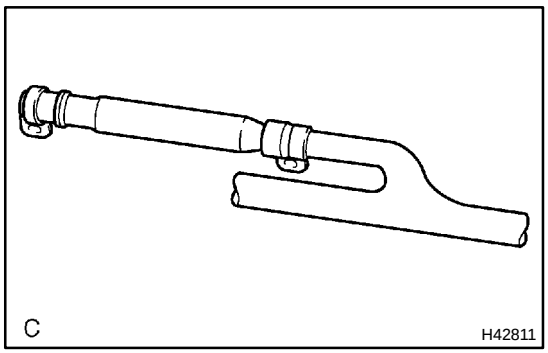
- **When disposing of the curtain shield airbag assy LH only, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure given below when deploying the airbag.**

HINT:

Prepare a battery as the power source to deploy the airbag.



(a) Check the function of the SST (See Pub. No. RM 925E, page 60–14).



(b) Sedan Body Type:
Remove the curtain shield airbag assy LH (See page 60–17).

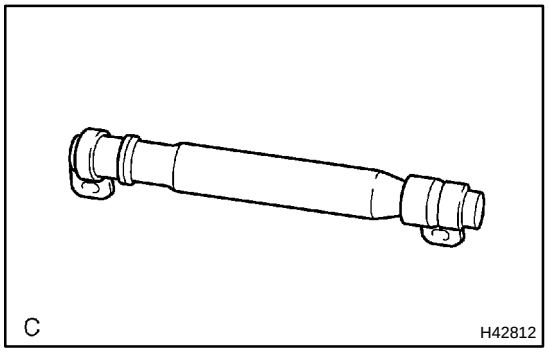
(c) 3 Door Hatchback Body Type:
Remove the curtain shield airbag assy LH (See page 60–17).

(d) 5 Door Hatchback Body Type:
Remove the curtain shield airbag assy LH (See page 60–17).

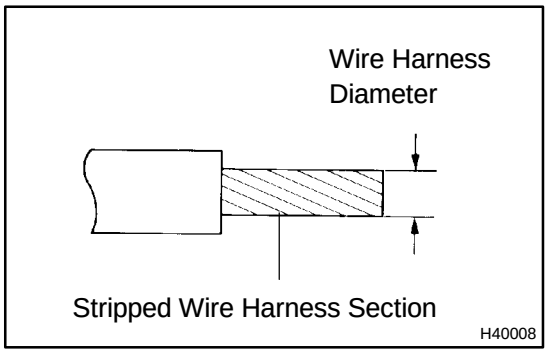
(e) Wagon Body Type:
Remove the curtain shield airbag assy LH (See page 60–17).

CAUTION:

When removing the curtain shield airbag assy LH, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.



(f) Cut off the deployment section in the airbag from the inflator.

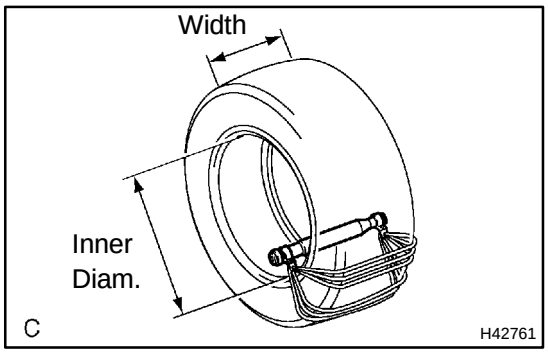


(g) Using a service-purpose wire harness for the vehicle, tie down the curtain shield airbag assy LH to the tire.
Wire harness: Stripped wire harness section 1.25 mm^2 or more (0.0019 in.^{2} or more).

CAUTION:
If the wire harness which is too thin or some other thing is used to tie down the curtain shield airbag assy LH, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use which is at least 1.25 mm^2 (0.0019 in.^{2}).

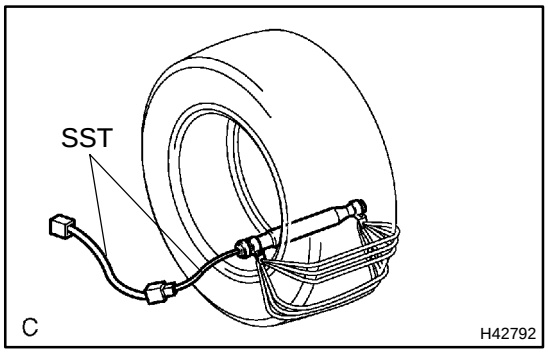
HINT:

- To calculate the square of the stripped wire harness section:
  Square = 3.14 x (Diameter)^2 divided by 4
- Position the curtain shield airbag assy LH inside the tire as shown in the illustration.
  Tire size: Must exceed the following dimensions
  Width: 185 mm (7.28 in.)
  Inner diameter: 360 mm (14.17 in.)

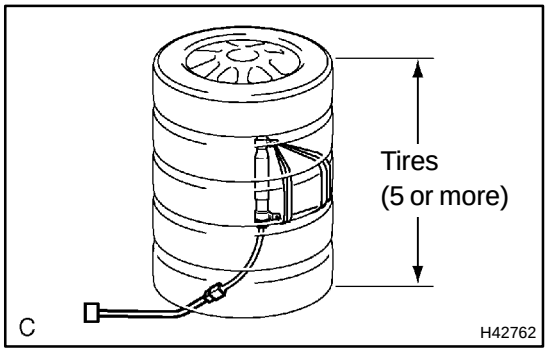


CAUTION:
Make sure that the wire harness is tight. It is very dangerous when looseness in the wire harness results in the curtain shield airbag assy LH coming free due to the shock from the airbag deployment.

NOTICE:
The tire will be marked by the airbag deployment, so use a redundant tire.



(h) Install the SST.
Connect the connector of the SST to the curtain shield airbag assy LH.
SST 09082-00802 (09082-10801, 09082-20801)



(i) Place the tires as shown in the illustration.

CAUTION:

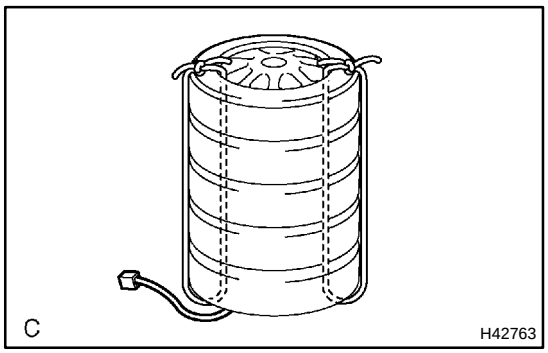
Do not place the deployment direction of the curtain shield airbag assy LH facing to the ground.

(1) Place at least 2 tires under the tire to which the curtain shield airbag assy LH is tied.

(2) Place at least 2 tires over the tire to which the curtain shield airbag assy LH is tied. The top tire should have the disc wheel installed.

NOTICE:

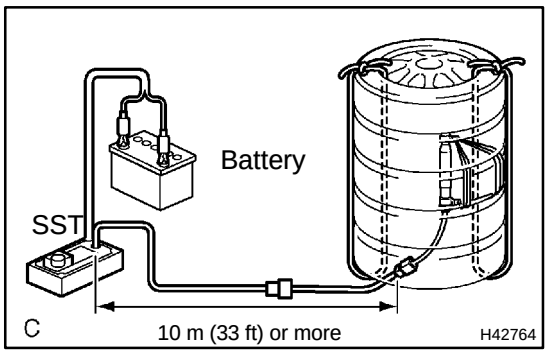
Do not place the SST connector under the tire because the SST connector could be damaged.



(3) Tie the tires together with 2 wire harness.

CAUTION:

Make sure that the wire harness is tight. It is very dangerous if looseness in the wire harness results in the tires coming free due to the shock from the airbag deployment.



(j) Install the SST.

Connect the connector of the SST.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

(k) Deploy the airbag.

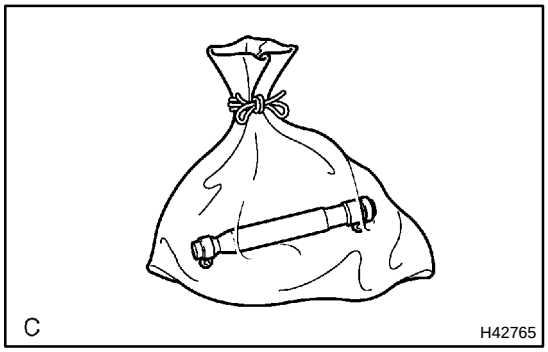
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.

(2) Check that no one is within 10 m (33 ft) area around the tire which the curtain shield airbag assy LH is tied.

(3) Press the activation switch of the SST and deploy the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.



(l) Dispose of the curtain shield airbag assy LH.

CAUTION:

- **The curtain shield airbag assy LH is extremely hot when the airbag is deployed, so leave it alone for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling the curtain shield airbag assy LH with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to the curtain shield airbag assy LH with the deployed airbag.**

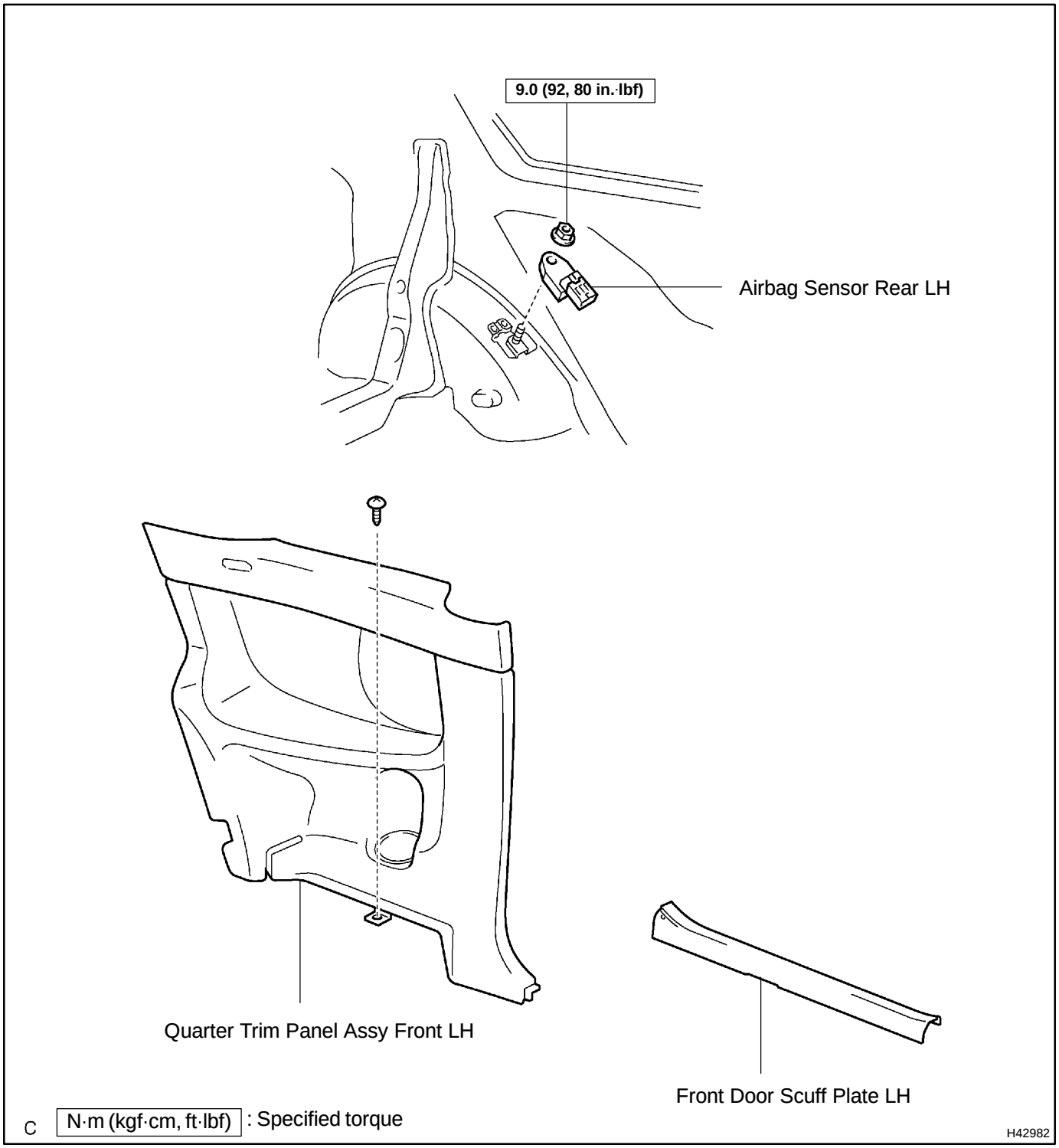
(1) Remove the curtain shield airbag assy LH from the tire.

(2) Place the curtain shield airbag assy LH in a plastic bag, tie the end tightly and dispose of it in the same way as other general parts disposal.

AIR BAG SENSOR REAR LH (3-DOOR HATCHBACK - Jan., 2003)

600JE-01

COMPONENTS



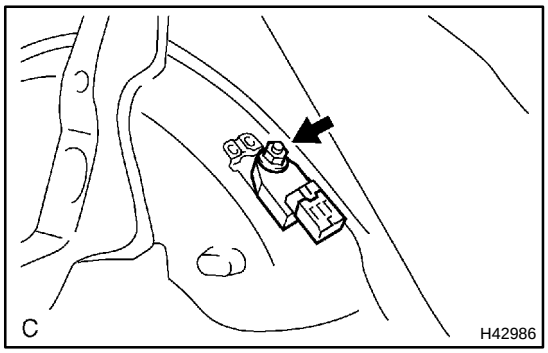
600JF-01

REPLACEMENT

HINT:

Replacement procedure of the RH side is the same as that of the LH side.

1. **PRECAUTION (See page 60-1)**
2. **DISCONNECT BATTERY NEGATIVE TERMINAL (See page 60-1)**
3. **REMOVE FRONT DOOR SCUFF PLATE LH (See page 76-26)**
4. **REMOVE QUARTER TRIM PANEL ASSY FRONT LH (See page 76-26)**



5. **REMOVE AIR BAG SENSOR REAR LH**

(a) Disconnect the connector of the airbag sensor rear LH.

(b) Remove the nut and the airbag sensor rear LH.

6. **INSTALL AIR BAG SENSOR REAR LH**

(a) Check that the ignition switch is OFF.

(b) Check that the battery negative (-) terminal is disconnected.

(c) Install the airbag sensor rear LH with the nut.

Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

NOTICE:

- **Make sure the airbag sensor rear LH is installed with the specified torque.**
- **If the airbag sensor rear LH has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the airbag sensor rear LH with a new one.**
- **When installing the airbag sensor rear LH, take care that the SRS wiring does not interfere with other parts and is not pinched between other parts.**

(d) Connect the connector of the airbag sensor rear LH.

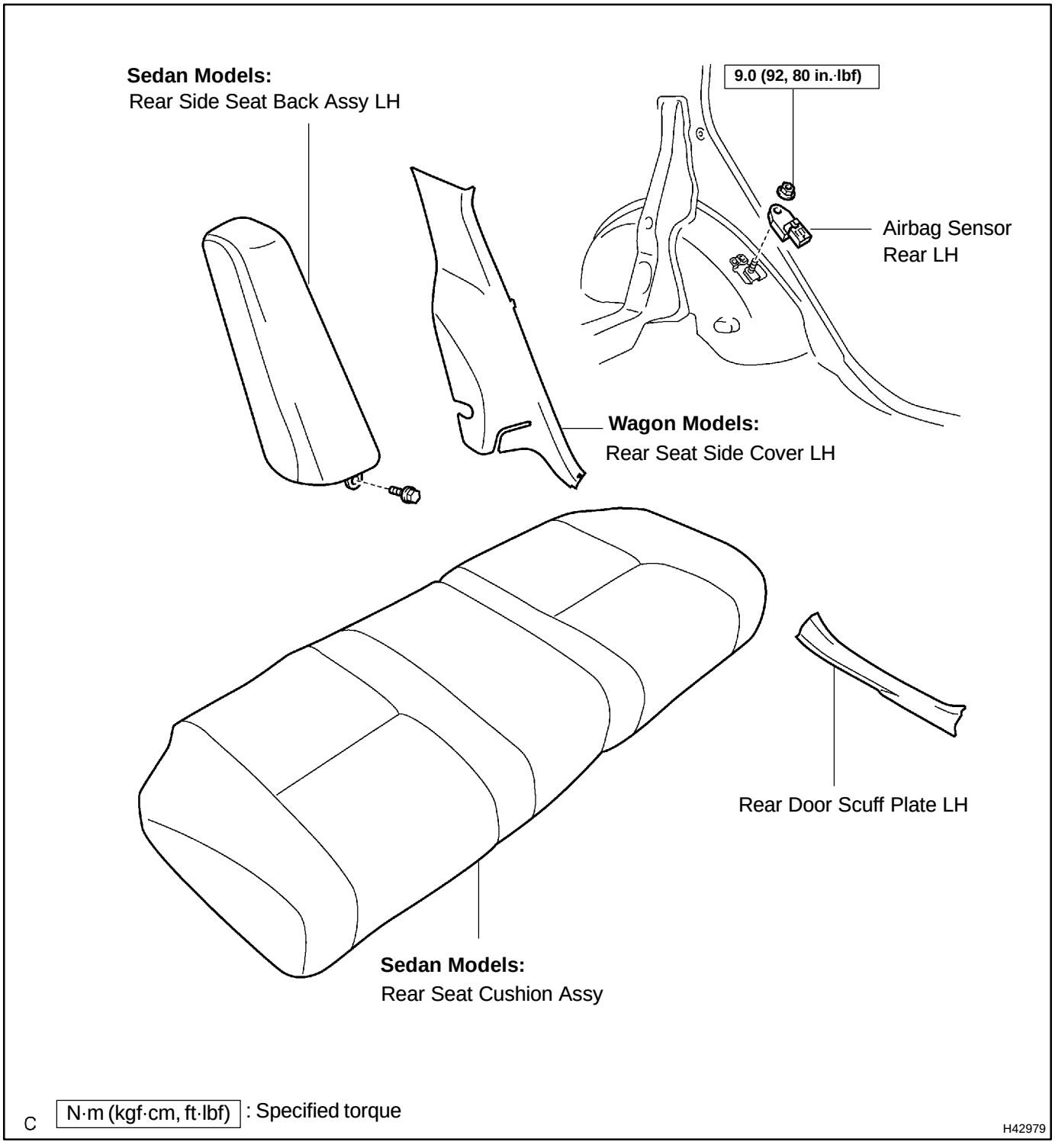
(e) Check that no play is identified.

7. **INSPECT SRS WARNING LIGHT (See page 05-4)**

AIR BAG SENSOR REAR LH (EXCEPT 3-DOOR HATCHBACK - Jan., 2003)

COMPONENTS

600JG-01



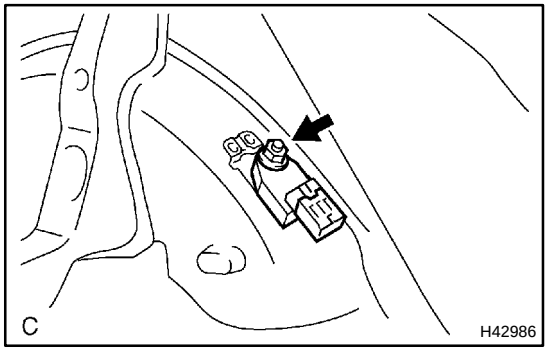
600JH-01

REPLACEMENT

HINT:

Replacement procedure of the RH side is the same as that of the LH side.

1. **PRECAUTION (See page 60-1)**
2. **DISCONNECT BATTERY NEGATIVE TERMINAL (See page 60-1)**
3. **REMOVE REAR DOOR SCUFF PLATE LH (See page 76-10)**
4. **REMOVE REAR SEAT SIDE COVER LH (WAGON MODELS) (See page 76-18)**
5. **REMOVE REAR SIDE SEAT BACK ASSY LH (SEDAN MODELS) (See Pub. No. RM925E, page 72-20)**
6. **REMOVE REAR SEAT CUSHION ASSY (SEDAN MODELS) (See Pub. No. RM925E, page 72-20)**



7. REMOVE AIR BAG SENSOR REAR LH

(a) Disconnect the connector of the airbag sensor rear LH.

(b) Remove the nut and the airbag sensor rear LH.

8. INSTALL AIR BAG SENSOR REAR LH

(a) Check that the ignition switch is OFF.

(b) Check that the battery negative (-) terminal is disconnected.

(c) Install the airbag sensor rear LH with the nut.

Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

NOTICE:

- **Make sure the airbag sensor rear LH is installed with the specified torque.**
- **If the airbag sensor rear LH has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the airbag sensor rear LH with a new one.**
- **When installing the airbag sensor rear LH, take care that the SRS wiring does not interfere with other parts and is not pinched between other parts.**

(d) Connect the connector of the airbag sensor rear LH.

(e) Check that no play is identified.

9. INSPECT SRS WARNING LIGHT (See page 05-4)

SEAT BELT

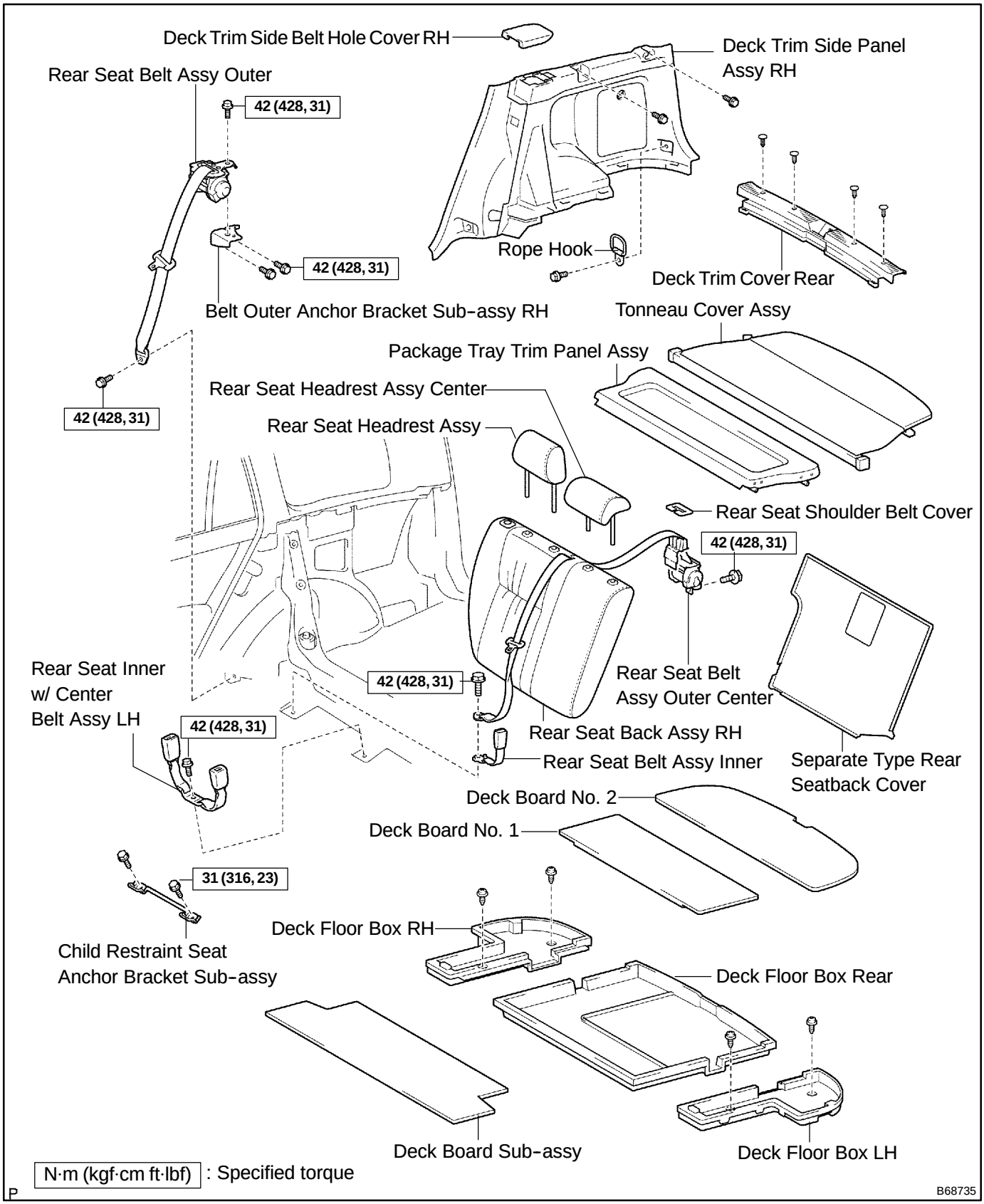
REAR SEAT BELT (WAGON MODELS) 61–1
COMPONENTS 61–1
REPLACEMENT 61–2

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

REAR SEAT BELT (WAGON MODELS)

COMPONENTS

610DM-01

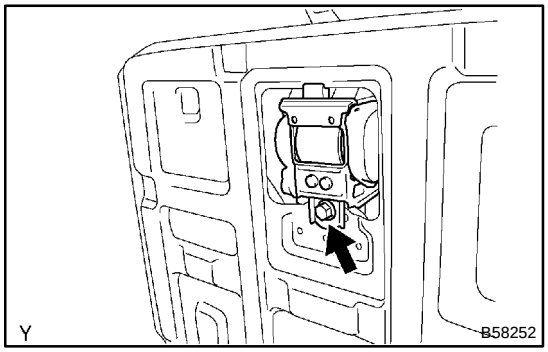


REPLACEMENT

HINT:

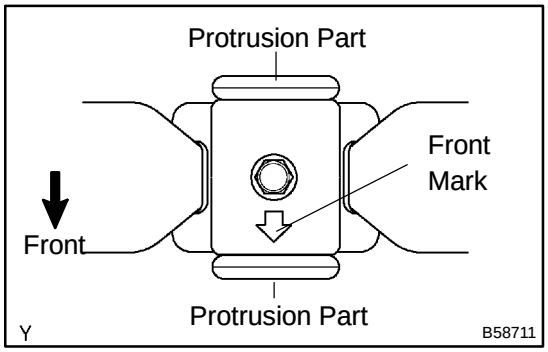
The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

1. REMOVE TONNEAU COVER ASSY (See page 76-18)
2. REMOVE PACKAGE TRAY TRIM PANEL ASSY (See page 76-18)
3. REMOVE DECK BOARD NO.1 (See page 76-18)
4. REMOVE DECK BOARD NO.2 (See page 76-18)
5. REMOVE DECK BOARD SUB-ASSY (See page 76-18)
6. REMOVE DECK FLOOR BOX REAR (See page 76-18)
7. REMOVE DECK FLOOR BOX RH (See page 76-18)
8. REMOVE DECK FLOOR BOX LH (See page 76-18)
9. REMOVE REAR SEAT BELT ASSY OUTER
(a) Remove the deck trim side belt hole cover.
(b) Remove the 2 bolts and the seat belt.
10. REMOVE BELT OUTER ANCHOR BRACKET SUB-ASSY
(a) Remove the deck trim side panel (See page 76-18).
(b) Remove the 2 bolts and anchor bracket.
11. REMOVE REAR SEATBACK ASSY RH (See page 72-3)
12. REMOVE REAR SEAT HEADREST ASSY (See page 72-3)
13. REMOVE REAR SEAT HEADREST ASSY CENTER (See page 72-3)
14. REMOVE REAR SEATBACK COVER RH (See page 72-3)
15. REMOVE REAR SEAT SHOULDER BELT COVER (See page 72-3)
16. REMOVE REAR SEAT BELT ASSY OUTER CENTER
(a) Remove the bolt and belt assy inner to the outer center anchor side.



(b) Remove the bolt and the belt outer center from the seatback.

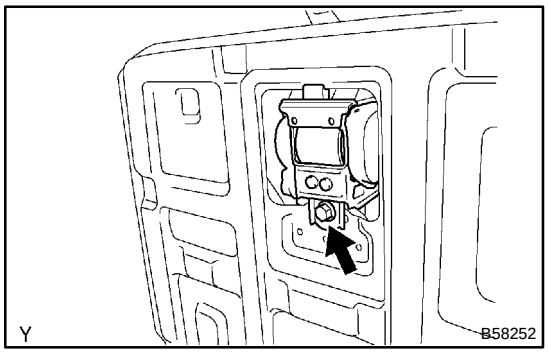
17. REMOVE REAR SEAT CUSHION ASSY (See page 72-3)
18. REMOVE REAR SEAT INNER W/CENTER BELT ASSY LH
(a) Remove the belt and seat belt.
19. REMOVE CHILD RESTRAINT SEAT ANCHOR BRACKET SUB-ASSY
(a) Remove the 2 bolts and anchor bracket.
20. INSTALL CHILD RESTRAINT SEAT ANCHOR BRACKET SUB-ASSY
(a) Install the anchor bracket with the 2 bolts.
Torque: 31 N·m (316 kgf·cm, 23 ft·lbf)



21. INSTALL REAR SEAT INNER W/CENTER BELT ASSY LH

(a) Install the belt with the bolt, as shown in the illustration.
Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)

NOTICE:
Do not make the anchor part run onto the protrusion part of the floor panel.



22. INSTALL REAR SEAT BELT ASSY OUTER CENTER

NOTICE:
Do not disassemble the retractor.

(a) Install the belt to the seatback with the bolt.
Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)

(b) Check the ELR lock.

NOTICE:
The check should be performed with the assembly installed.

(1) Check that the belt will lock when pulling out the belt quickly when the belt is installed.

HINT:
The seat belt does not lock when the pull–out amount of the belt is 955 mm (37.60 in.) or less.
If the operation is not as specified, replace the seat belt assy.

(c) Check the fastening function of the child restraint system.

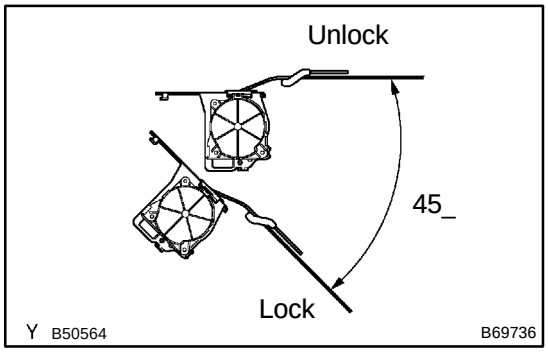
NOTICE:
The check should be performed with the assembly installed.

(1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.

(2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

If operation is not as specified, replace the seat belt assy.

(d) Install the belt inner together with the belt assy outer center anchor side to the body
Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)



23. INSTALL REAR SEAT BELT ASSY OUTER

NOTICE:

Do not disassemble the retractor.

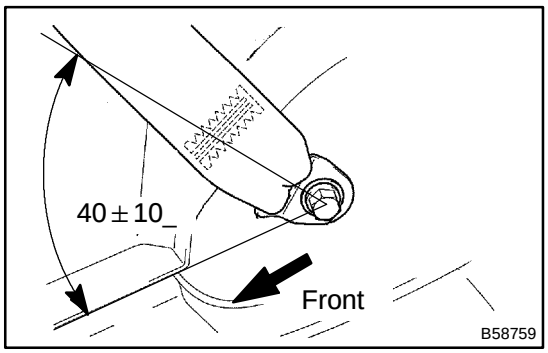
(a) Check the degree of tilt when the belt begins to lock the ELR.

(1) Check that the belt will not lock within 15_ of tilt in all directions but that the belt will lock with over 45_ of tilt when moving the installed retractor gently.

If operation is not as specified, replace the seat belt assy.

(b) Install the belt with the bolt on the retractor side.

Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)



(c) Install the belt with the bolt on the floor anchor side, as shown in the illustration.

Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)

(d) Check the ELR lock.

NOTICE:

the check should be performed with the assy installed.

(1) Check that the belt will lock when pulling out the belt quickly when the belt is installed.

If operation is not as specified, replace the seat belt assy.

(e) Check the fastening function of the child restraint system.

NOTICE:

The check should be performed with the assy installed.

(1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.

(2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

If operation is not as specified, replace the seat belt assy.

24. BELT OUTER ANCHOR BRACKET SUB-ASSY

(a) Install the anchor bracket with the 2 bolts.

Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)

WINDSHIELD/WINDOWGLASS/MIRROR

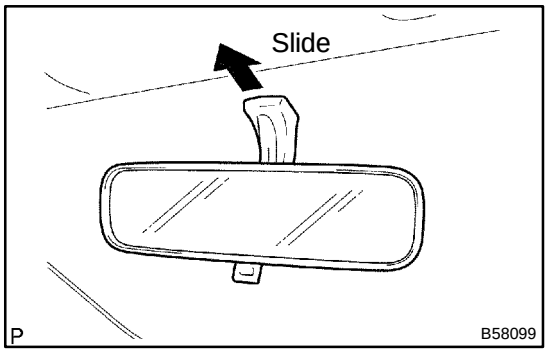
INNER REAR VIEW MIRROR ASSY 70–1
REPLACEMENT 70–1

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

INNER REAR VIEW MIRROR ASSY

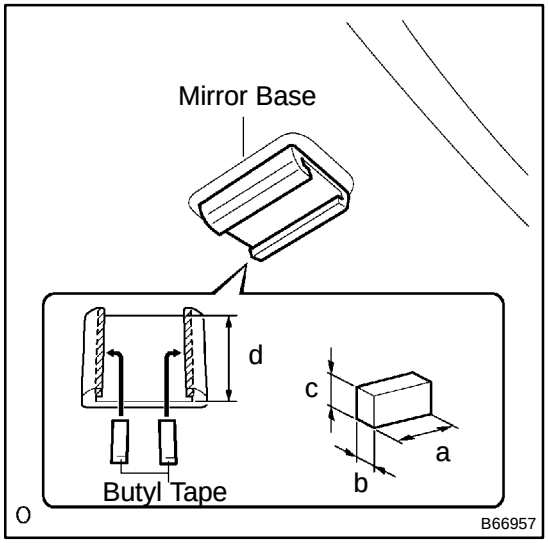
REPLACEMENT

700SC-01



1. REMOVE INNER REAR VIEW MIRROR ASSY

(a) Remove the mirror, as shown in the illustration.



2. INSTALL INNER REAR VIEW MIRROR ASSY

(a) Prepare 2 pieces of butyl tape having the dimensions listed below.

Dimension:

a	10 mm (0.393 in.)
b	4 mm (0.157 in.)
c	6 mm (0.236 in.)
d	24 mm (0.944 in.)

(b) While extending them until they fit the length of the mirror base (24 mm (0.944 in.)), apply them to both sides of the mirror base respectively.

(c) Install the mirror.

NOTICE:

If butyl tape spreads out of the inside groove when applied, remove the excessive amount of tape so that it will not stick to the glass.

SEAT

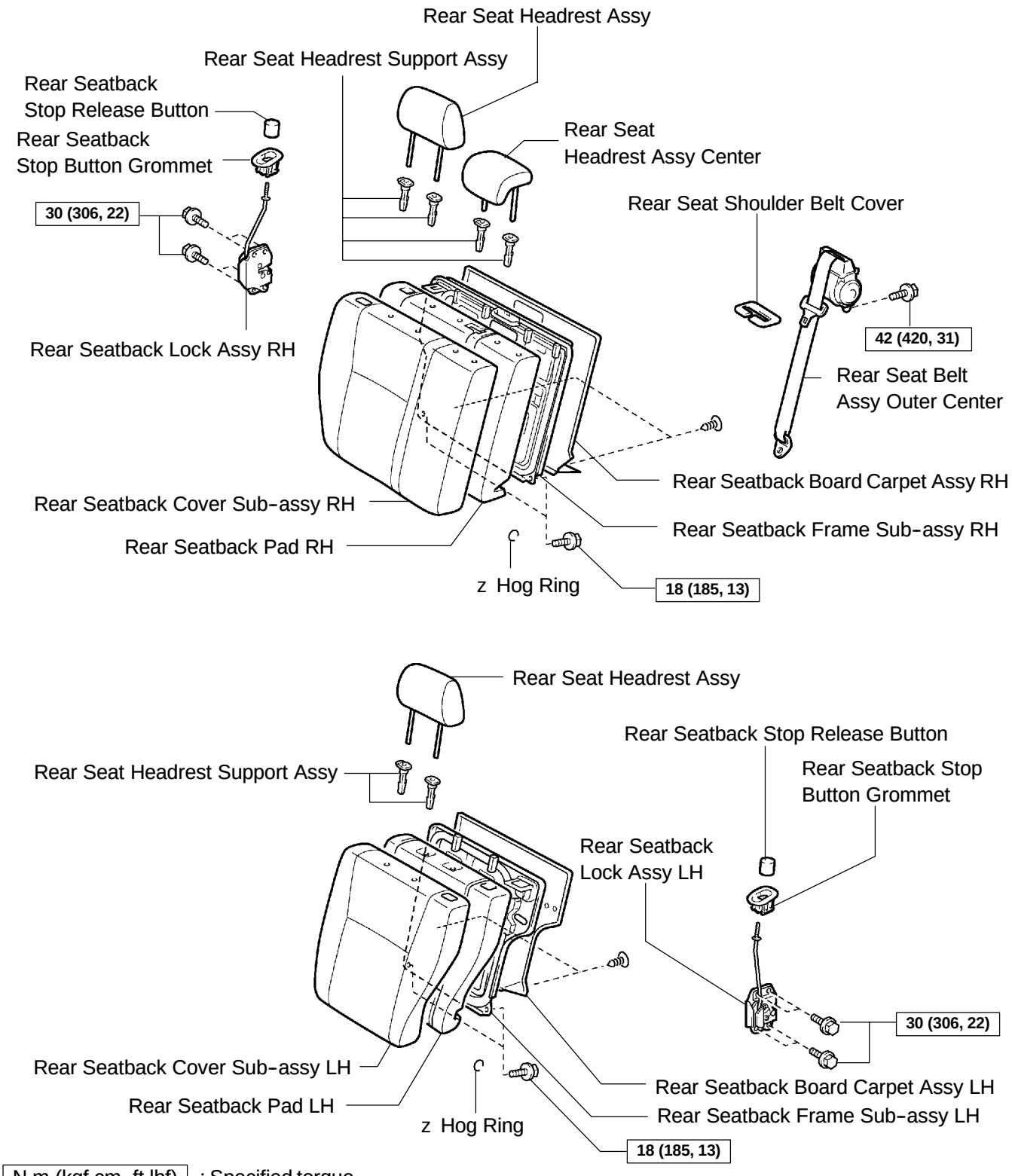
REAR SEAT (WAGON MODELS) 72–1
COMPONENTS 72–1
REPLACEMENT 72–3

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

REAR SEAT (WAGON MODELS)

COMPONENTS

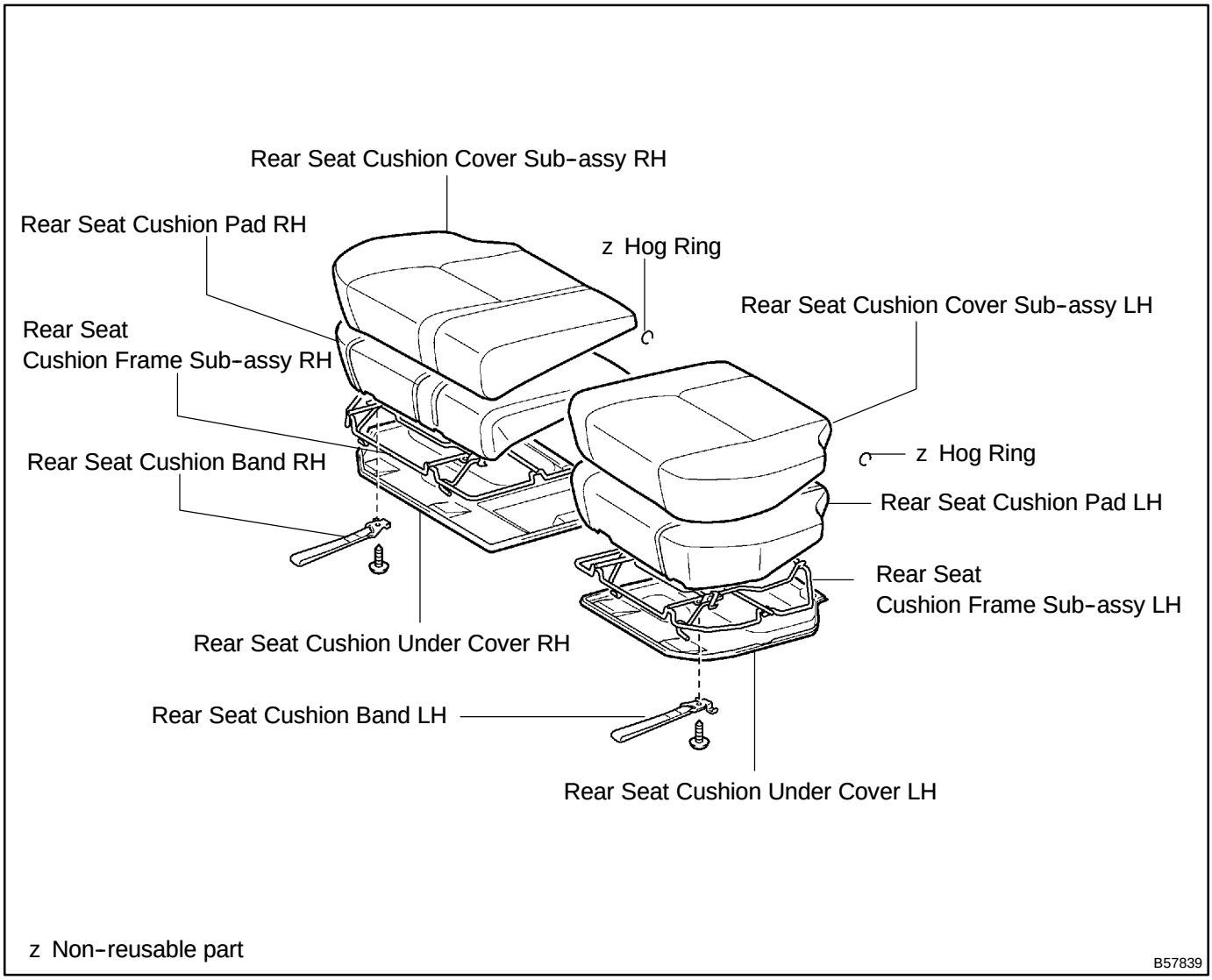
720I0-01



N·m (kgf·cm, ft·lbf) : Specified torque

z Non-reusable part

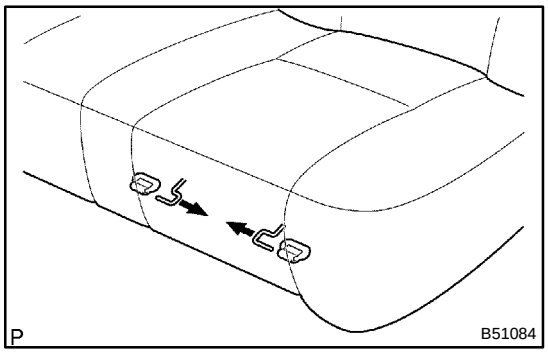
B57841


Rear Seat Cushion Cover Sub-assy RH
Rear Seat Cushion Pad RH
z Hog Ring
Rear Seat Cushion Cover Sub-assy LH
Rear Seat
Cushion Frame Sub-assy RH
Rear Seat Cushion Band RH
z Hog Ring
Rear Seat Cushion Pad LH
Rear Seat
Cushion Frame Sub-assy LH
Rear Seat Cushion Under Cover RH
Rear Seat Cushion Band LH
Rear Seat Cushion Under Cover LH
z Non-reusable part
B57839

REPLACEMENT

HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
- On the RH side, use the same procedures as on the LH side.



1. REMOVE REAR SEAT CUSHION ASSY LH

(a) Remove the seat cushion by pulling the seat up and pushing the cushion wires of the installation part with the body in the inside direction.

2. REMOVE REAR SEAT CUSHION ASSY RH

3. REMOVE REAR SEAT CUSHION COVER SUB-ASSY LH

(a) Disengage the hook and remove the cushion cover together with the pad from the cushion frame.

(b) Remove the hog rings and cover from the together pad.

4. REMOVE REAR SEAT CUSHION COVER SUB-ASSY RH

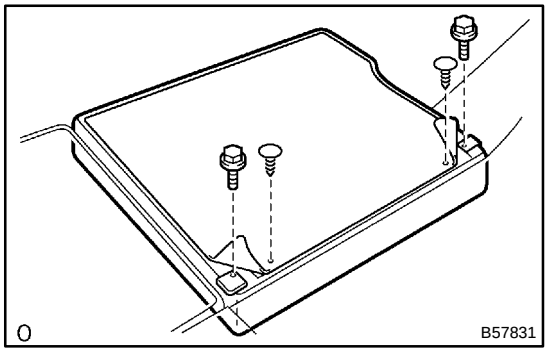
5. REMOVE REAR SEAT CUSHION FRAME SUB-ASSY LH

6. REMOVE REAR SEAT CUSHION FRAME SUB-ASSY RH

7. REMOVE REAR SEAT CUSHION BAND LH

(a) Remove the screw and cushion band.

8. REMOVE REAR SEAT CUSHION BAND RH



9. REMOVE REAR SEATBACK ASSY LH

(a) Remove the 2 bolts and the seatback assy.

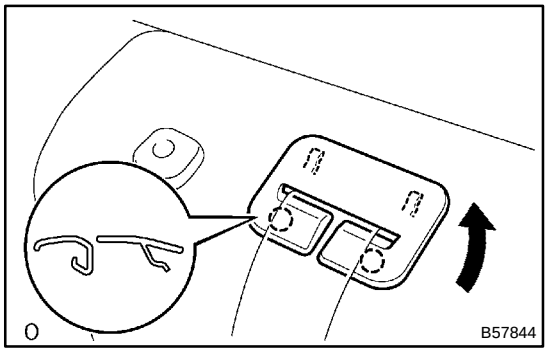
10. REMOVE REAR SEATBACK ASSY RH

(a) Remove the 2 bolts and the seatback assy.

11. REMOVE REAR SEAT HEADREST ASSY

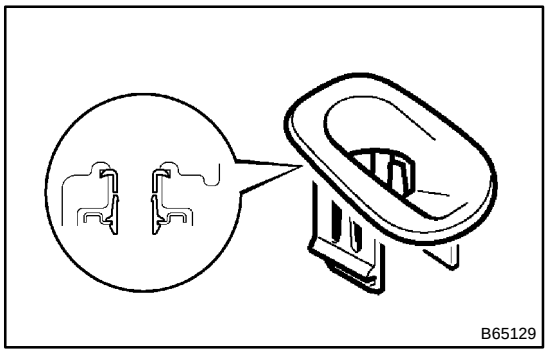
(a) Remove the headrests LH and RH.

12. REMOVE REAR SEAT HEADREST ASSY CENTER



13. REMOVE REAR SEAT SHOULDER BELT COVER

(a) Disengage the hook and remove the shoulder belt cover from the seat belt.



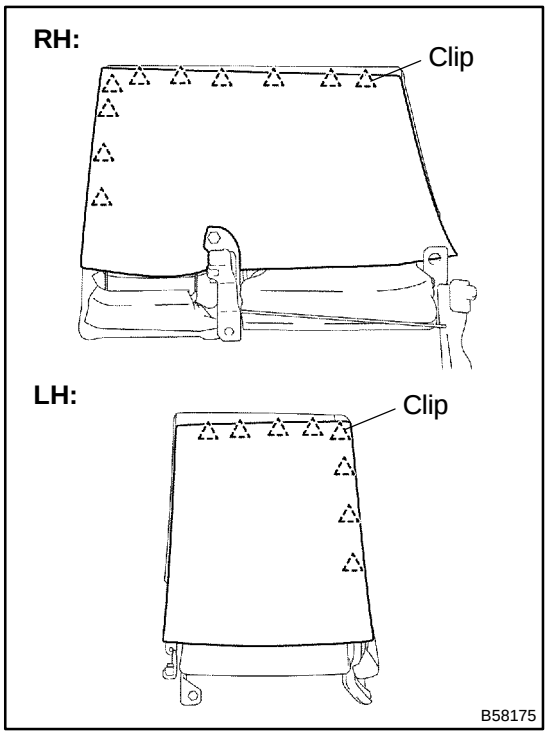
14. REMOVE REAR SEATBACK COVER

(a) Using a screwdriver, disengage the 2 claws of each grommet and remove the stop button grommets LH and RH.

HINT:

Tape the screwdriver tip before use.

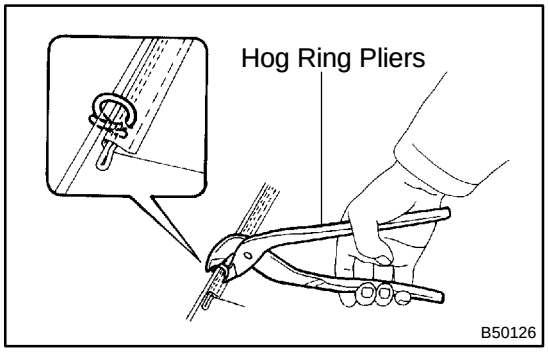
(b) Remove the hog rings.



(c) Disengage the clips, turn up the seatback board carpets LH and RH.

(d) Remove the 6 headrest supports.

(e) Remove the seatback covers LH and RH.



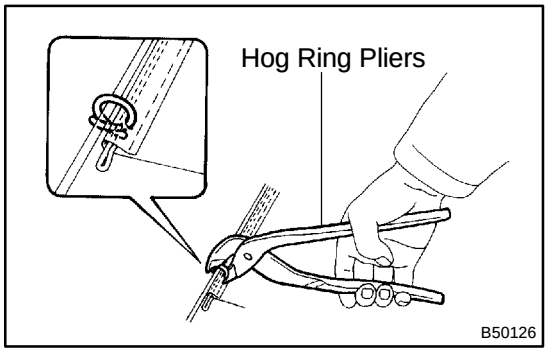
15. INSTALL REAR SEATBACK COVER

(a) Install the seatback cover to the seat with new hog rings.

(b) Install the seatback cover with pad to the seatback frame with new hog ring.

HINT:

- Do not damage the seat back cover nor make it dirty.
- When installing the hog rings, take care to prevent wrinkles as little as possible.



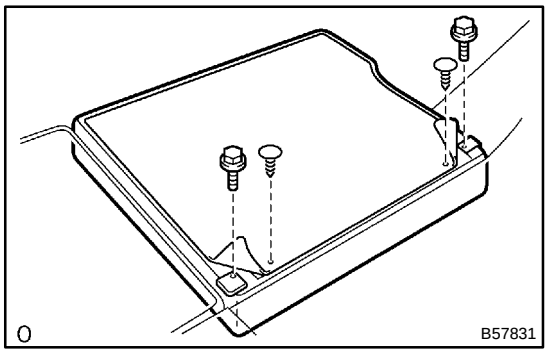
16. INSTALL REAR SEAT CUSHION COVER

(a) Install the cushion cover to the seat cushion pad with new hog rings.

(b) Install the cushion cover with pad to the cushion frame with new hog ring.

HINT:

- Do not damage the seat cushion cover nor make it dirty.
- When installing the hog rings, take care to prevent wrinkles as much as possible.



17. INSTALL REAR SEATBACK ASSY

(a) Install the seatback with the bolts.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)

(b) Install the clips.

EXTERIOR/INTERIOR TRIM

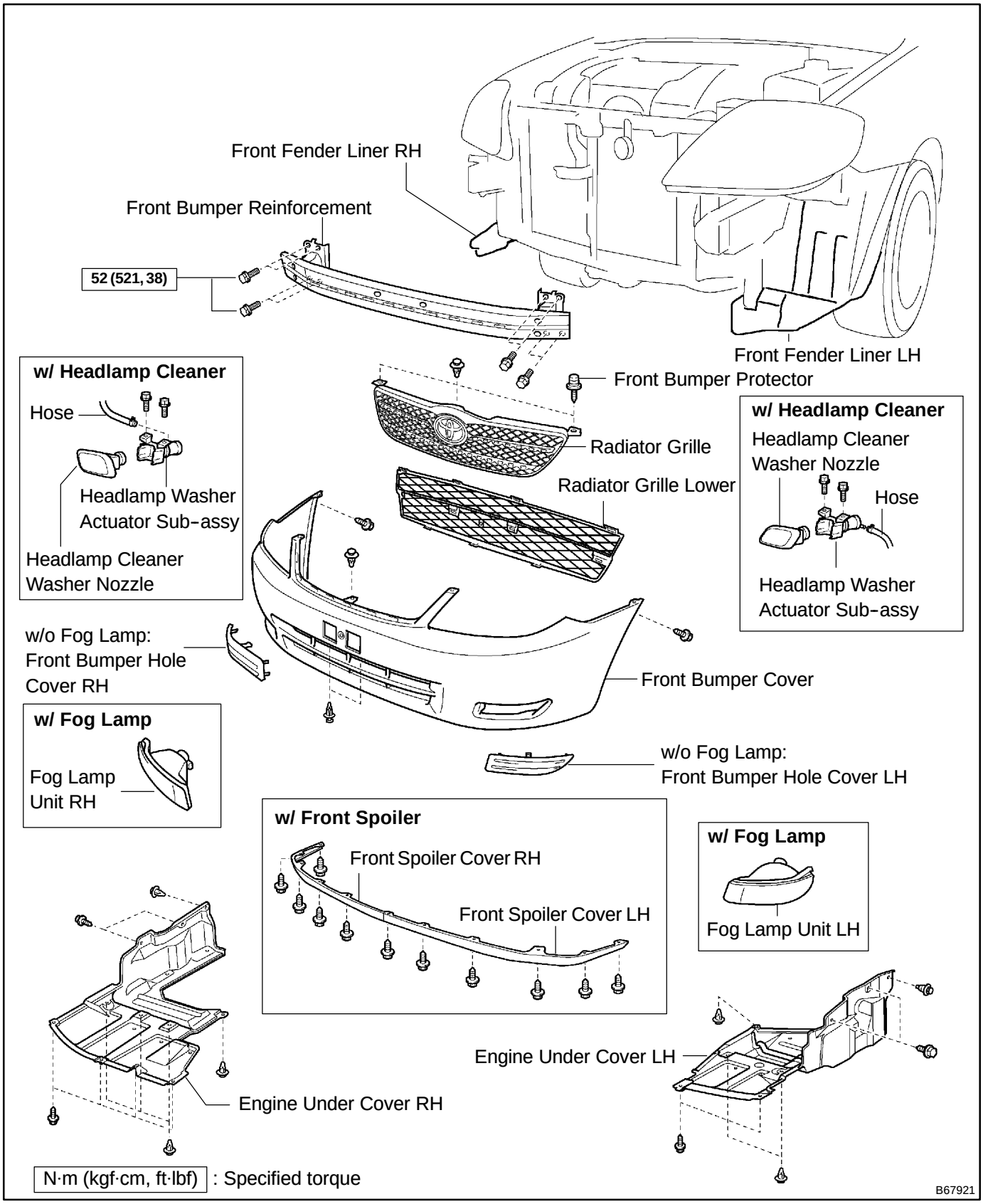
FRONT BUMPER
(SEDAN/WAGON MODELS) 76–1
COMPONENTS 76–1
REPLACEMENT 76–2
FRONT BUMPER
(HATCHBACK MODELS) 76–4
COMPONENTS 76–4
REPLACEMENT 76–5
ROOF HEADLINING
(SEDAN MODELS) 76–7
COMPONENTS 76–7
REPLACEMENT 76–10
ROOF HEADLINING
(WAGON MODELS) 76–15
COMPONENTS 76–15
REPLACEMENT 76–18
ROOF HEADLINING
(3–DOOR HATCHBACK MODELS) 76–23
COMPONENTS 76–23
REPLACEMENT 76–26
ROOF HEADLINING
(5–DOOR HATCHBACK MODELS) 76–31
COMPONENTS 76–31
REPLACEMENT 76–34

REFER TO COROLLA REPAIR MANUAL (Pub. No. RM925E)
NOTE: The above pages contain only the points which differ from the above listed manual.

FRONT BUMPER (SEDAN/WAGON MODELS)

COMPONENTS

760UP-01

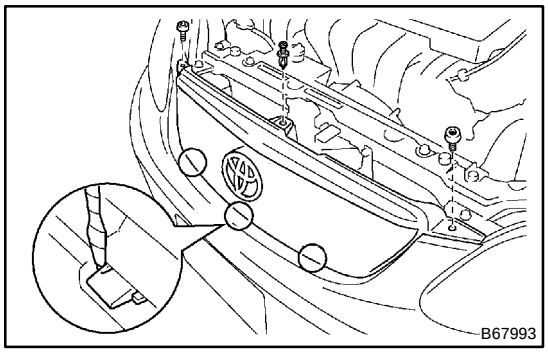


760UQ-01

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.



1. REMOVE RADIATOR GRILLE

(a) Remove the 2 protectors and clip.

(b) Using a screwdriver, disengage the 3 claws and remove the radiator grille.

HINT:

Tape the screwdriver tip before use.

2. REMOVE FRONT SPOILER COVER LH (W/ FRONT SPOILER)

(a) Remove the 6 screws and spoiler cover.

3. REMOVE FRONT SPOILER COVER RH (W/ FRONT SPOILER)

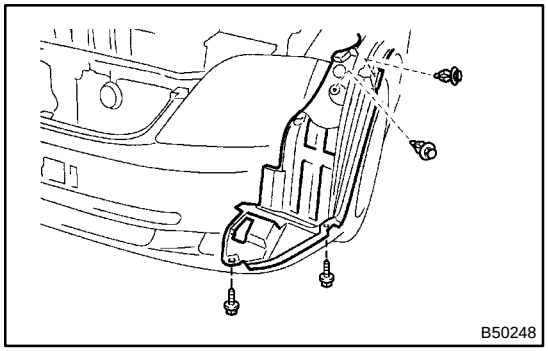
(a) Remove the 5 screws and spoiler cover.

4. REMOVE ENGINE UNDER COVER LH

(a) Remove the 4 bolts, 4 clips and under cover.

5. REMOVE ENGINE UNDER COVER RH

(a) Remove the 6 bolts, 5 clips and under cover.



6. REMOVE FRONT FENDER LINER LH

(a) Using a clip remover, remove the 2 clips.

(b) Remove the 2 screws and a part of the fender liner.

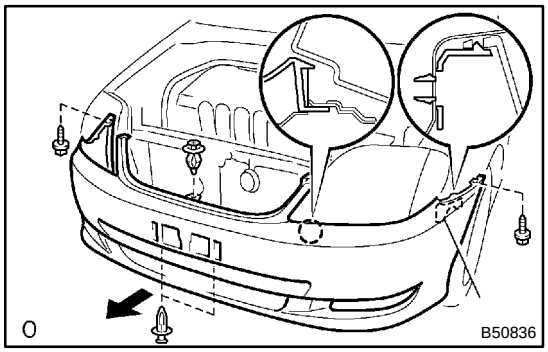
HINT:

Do not completely remove the screws, clips and the front fender liner so that that the front bumper cover can be removed.

7. REMOVE FRONT FENDER LINER RH

HINT:

Use the same procedures for the LH side.



8. REMOVE FRONT BUMPER COVER

(a) Remove the 2 screws.

(b) Using a clip remover, remove the 3 clips.

(c) Disengage the claws and remove the bumper cover.

(d) w/ Fog lamp:
Disconnect the fog lamp connectors.

(e) w/ Headlamp cleaner:
Disconnect the headlamp washer hoses.

9. REMOVE FRONT FOG LAMP ASSY LH (W/ FOG LAMP)(See Pub. No. RM925E, page 65-22)

10. REMOVE FRONT FOG LAMP ASSY RH (W/ FOG LAMP)(See Pub. No. RM925E, page 65-22)

11. REMOVE FRONT BUMPER HOLE COVER LH (W/O FOG LAMP)

(a) Using a screwdriver, remove the hole cover.

HINT:

Tape the screwdriver tip before use.

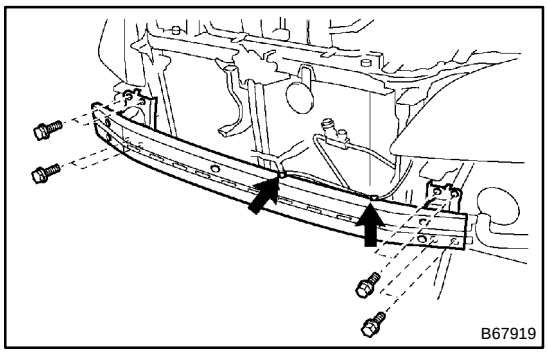
12. REMOVE FRONT BUMPER HOLE COVER RH (W/O FOG LAMP)

HINT:

Use the sam procedures above for the LH side.

13. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY LH (W/ HEADLAMP CLEANER)(See Pub. No. RM925E, page 66-20)

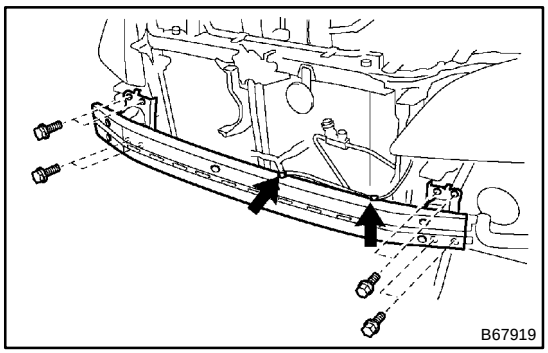
14. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY RH (W/ HEADLAMP CLEANER)(See Pub. No. RM925E, page 66-20)



15. REMOVE FRONT BUMPER REINFORCEMENT

(a) Using a clip remover, remove the 2 wire harness clips.

(b) Remove the 8 bolts and reinforcemant.



16. INSTALL FRONT BUMPER REINFORCEMENT

(a) Install the reinforcement with the 8 bolts.

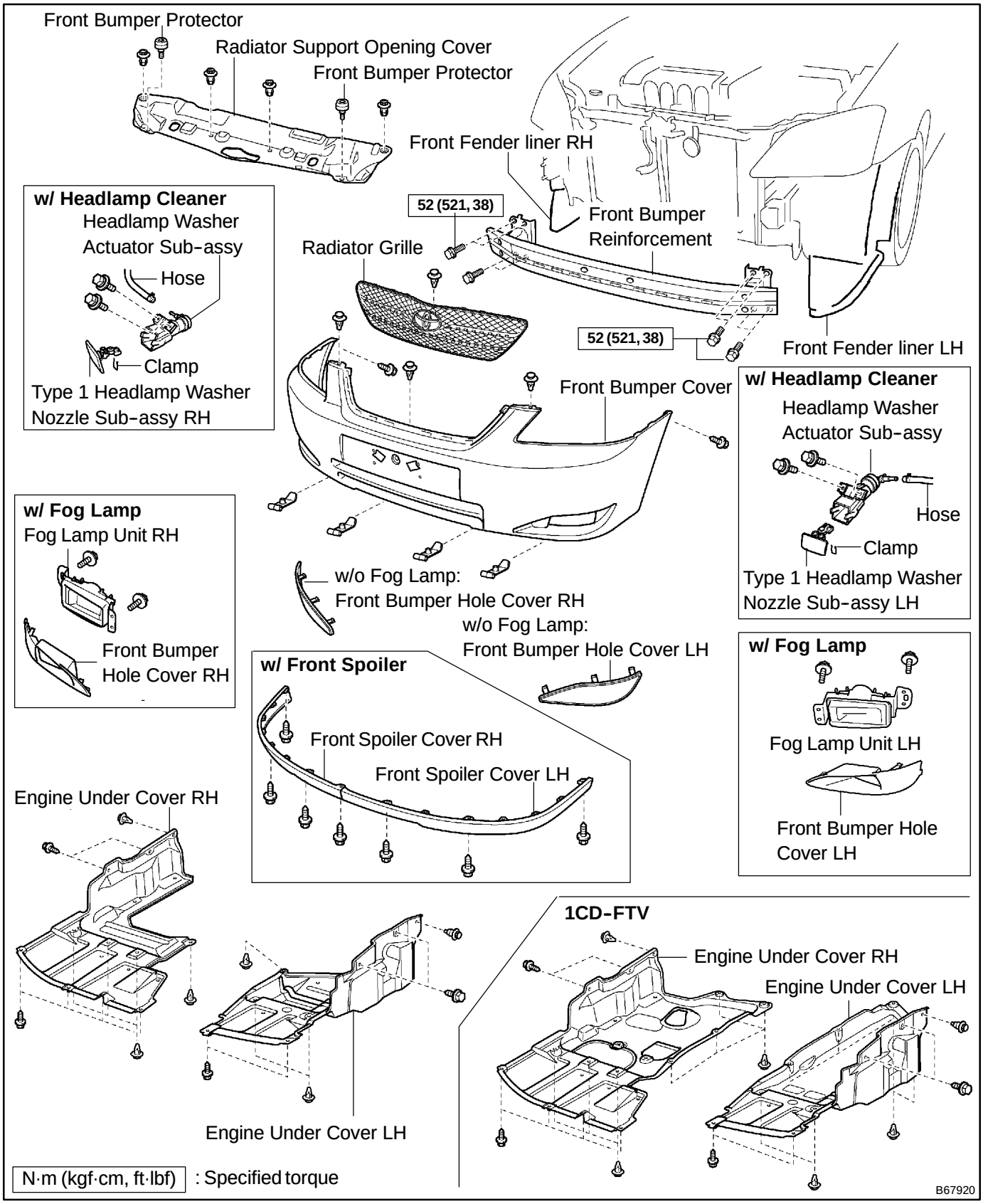
Torque: 52 N·m (521 kgf·cm, 38 ft·lbf)

(b) Install the 2 wire harness clips.

FRONT BUMPER (HATCHBACK MODELS)

760UR-01

COMPONENTS



REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

1. REMOVE RADIATOR SUPPORT OPENING COVER

(a) Using a clip remover, remove the 4 clips.

(b) Remove the 2 bumper protectors and radiator support opening cover.

2. REMOVE RADIATOR GRILLE

(a) Using a screwdriver, disengage the 3 claws and remove the radiator grille.

HINT:

Tape the screwdriver tip before use.

3. REMOVE FRONT SPOILER COVER LH (W/ FRONT SPOILER)

(a) Remove the 4 screws and disengage 5 claws.

(b) Remove the spoiler cover.

4. REMOVE FRONT SPOILER COVER RH (W/ FRONT SPOILER)

(a) Remove the 3 screws and disengage 5 claws.

(b) Remove the spoiler cover.

5. REMOVE ENGINE UNDER COVER LH

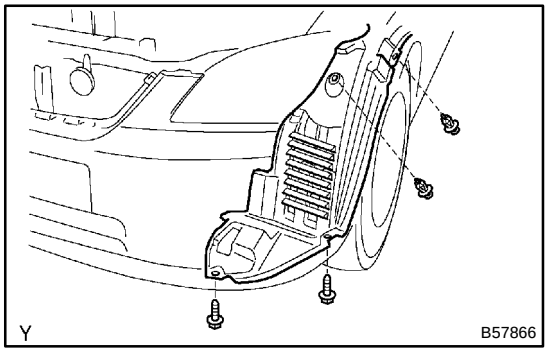
(a) Remove the 4 clips, 4 bolts and under cover.

(b) 1CD-FTV:
Remove the 8 clips, 6 bolts and under cover.

6. REMOVE ENGINE UNDER COVER RH

(a) Remove the 5 clips, 6 bolts and under cover.

(b) 1CD-FTV:
Remove the 7 clips, 4 bolts and under cover.



7. REMOVE FRONT FENDER LINER LH

(a) Using a clip remover, remove the 2 clips.

(b) Remove the screw and partially remove the fender liner.

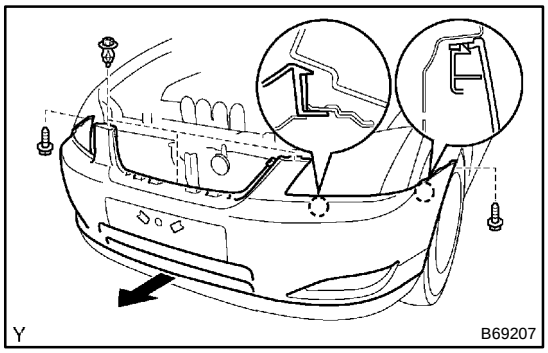
HINT:

Do not completely remove the screws, clips and the front fender liner so that that the front bumper cover can be removed.

8. REMOVE FRONT FENDER LINER RH

HINT:

Use the same procedures for the LH side.



9. REMOVE FRONT BUMPER COVER

(a) Remove the 2 screws and 3 clips.

(b) Disengage the claw and bumper cover.

(c) w/ Fog lamp:
Disconnect the fog lamp connectors.

(d) w/ Headlamp cleaner:
Disconnect the headlamp washer hoses.

10. REMOVE FRONT FOG LAMP ASSY LH (W/ FOG LAMP)(See Pub. No. RM925E, page 65-24)

11. REMOVE FRONT FOG LAMP ASSY RH (W/ FOG LAMP)(See Pub. No. RM925E, page 65-24)

12. REMOVE FRONT BUMPER HOLE COVER LH (W/O FOG LAMP)

(a) Using a screwdriver, remove the hole cover.

HINT:

Tape the screwdriver tip before use.

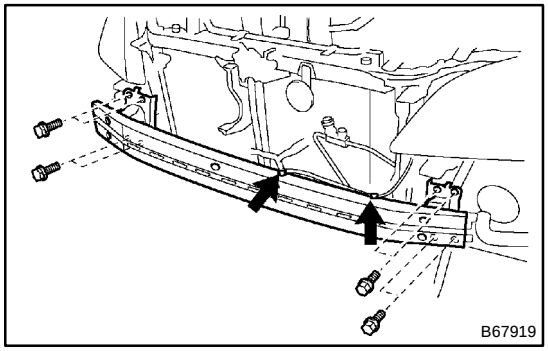
13. REMOVE FRONT BUMPER HOLE COVER RH (W/O FOG LAMP)

HINT:

Use the same procedures for the LH side.

14. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY LH (W/ HEADLAMP CLEANER)(See Pub. No. RM925E, page 66-21)

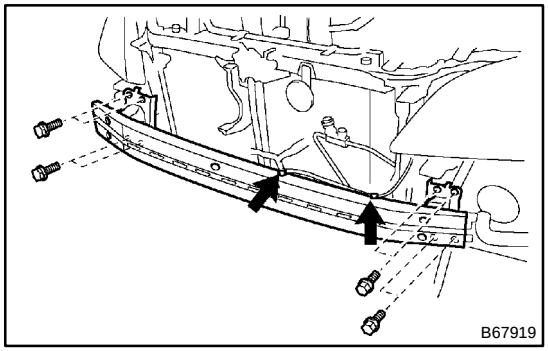
15. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY RH (W/ HEADLAMP CLEANER)(See Pub. No. RM925E, page 66-21)



16. REMOVE FRONT BUMPER REINFORCEMENT

(a) Disconnect the 2 wire harness clips.

(b) Remove the 8 bolts and front bumper reinforcement.



17. INSTALL FRONT BUMPER REINFORCEMENT

(a) Install the reinforcement with the 8 bolts.

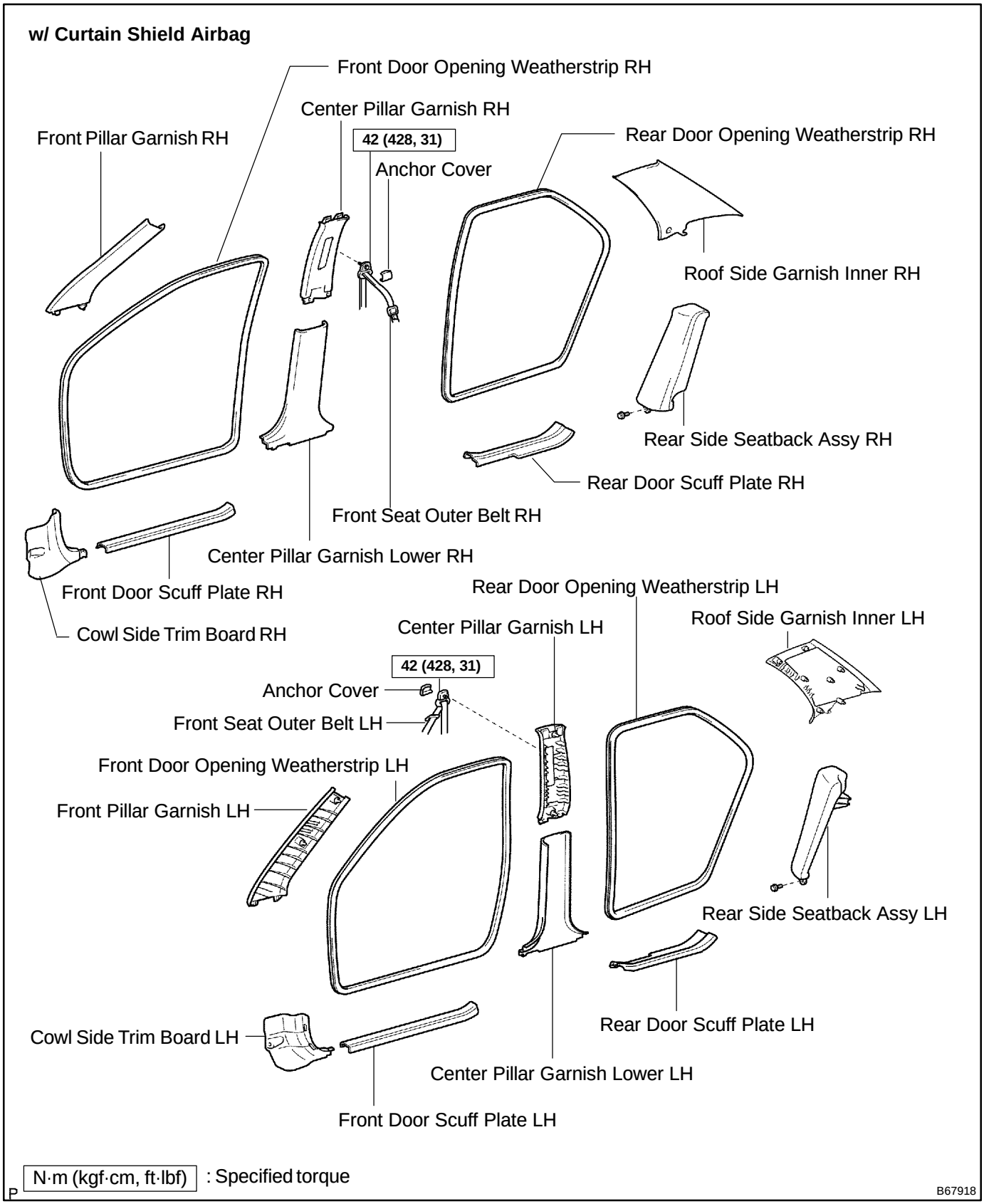
Torque: 52 N·m (521 kgf·cm, 38 ft·lbf)

(b) Install the 2 wire harness clips.

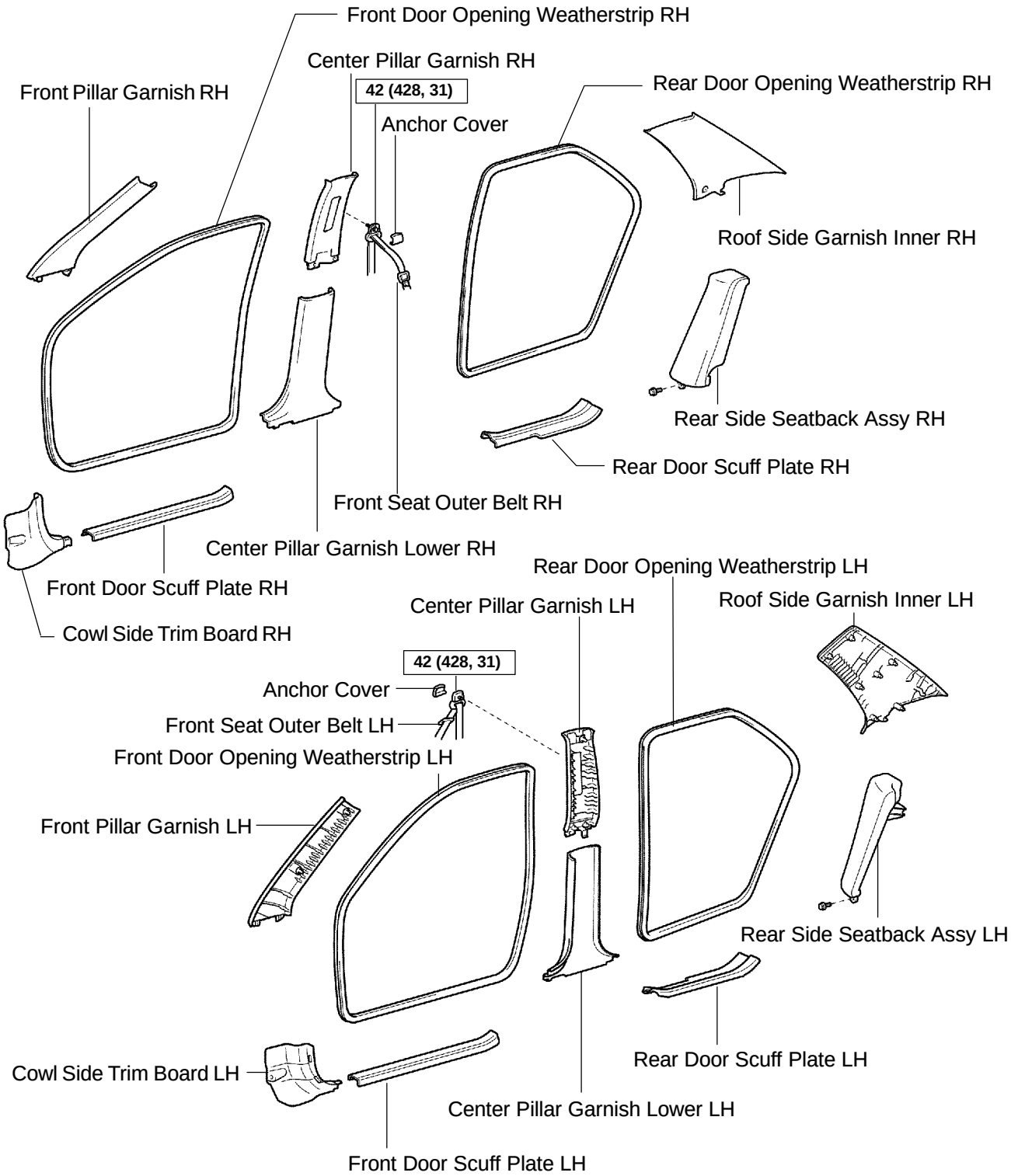
ROOF HEADLINING (SEDAN MODELS)

760UT-01

COMPONENTS

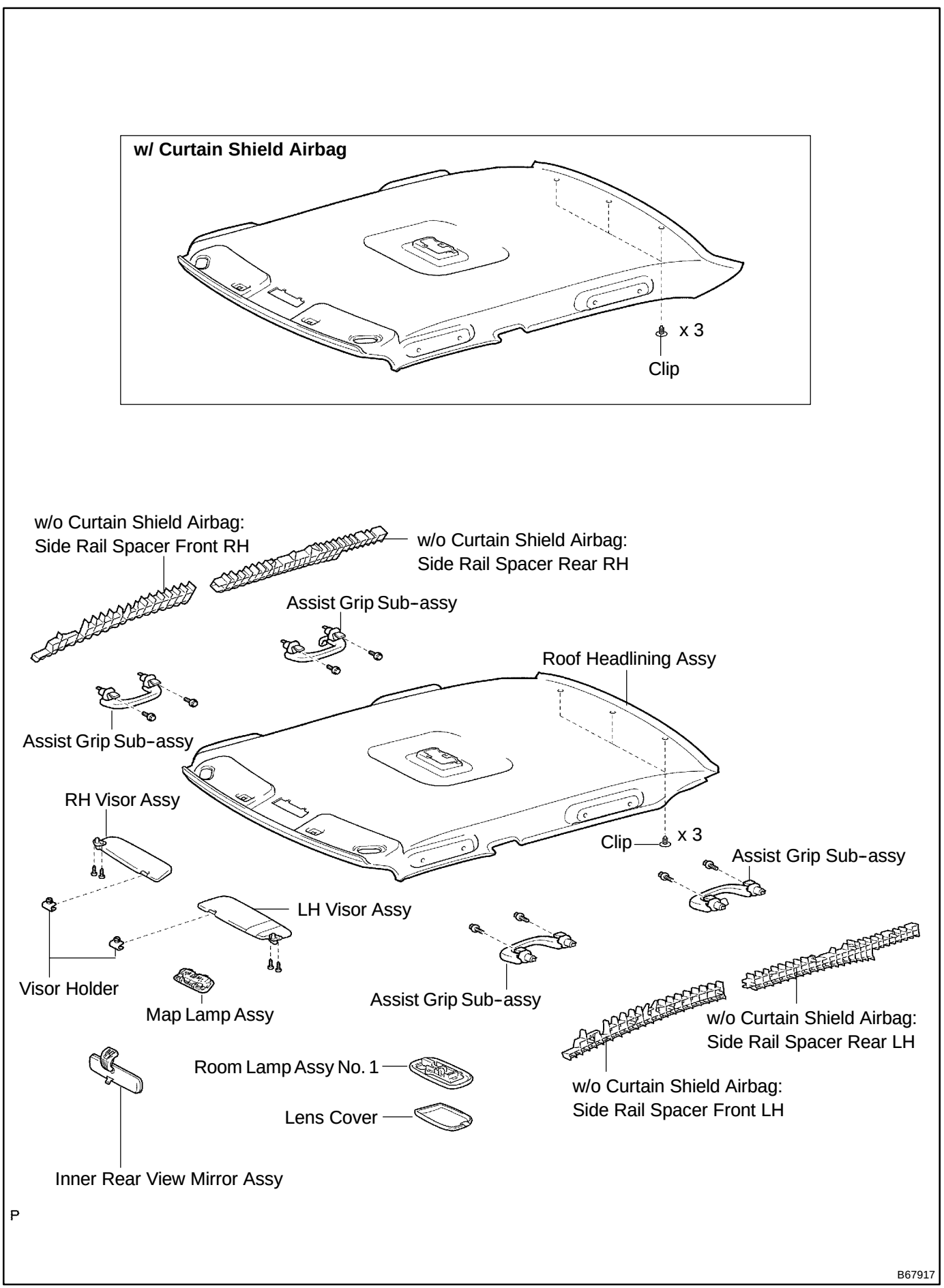


w/o Curtain Shield Airbag



P N·m (kgf·cm, ft·lbf) : Specified torque

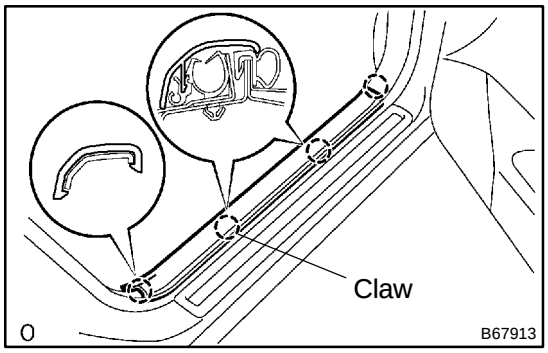
B69071


w/ Curtain Shield Airbag
x 3
Clip
w/o Curtain Shield Airbag:
Side Rail Spacer Front RH
w/o Curtain Shield Airbag:
Side Rail Spacer Rear RH
Assist Grip Sub-assy
Assist Grip Sub-assy
Roof Headlining Assy
RH Visor Assy
Clip
x 3
Assist Grip Sub-assy
LH Visor Assy
Visor Holder
Map Lamp Assy
Assist Grip Sub-assy
w/o Curtain Shield Airbag:
Side Rail Spacer Rear LH
w/o Curtain Shield Airbag:
Side Rail Spacer Front LH
Room Lamp Assy No. 1
Lens Cover
Inner Rear View Mirror Assy
P
B67917

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.



1. REMOVE FRONT DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 4 claws and remove the scuff plate.

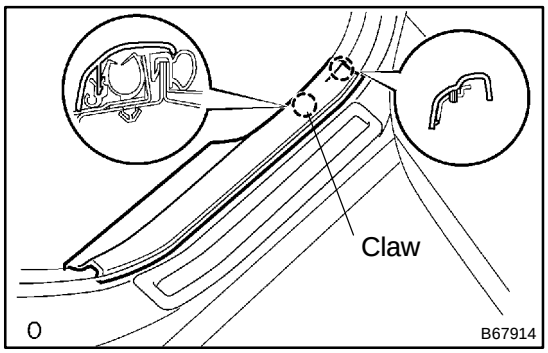
HINT:

Tape the screwdriver tip before use.

2. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



3. REMOVE REAR DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 2 claws and remove the scuff plate.

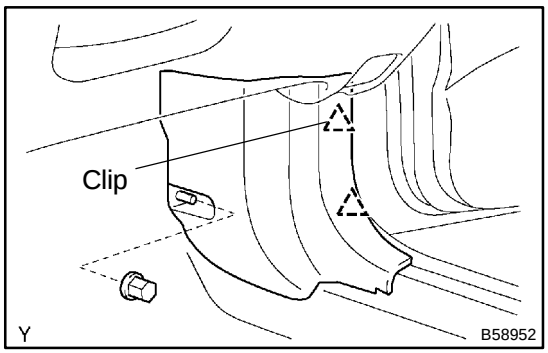
HINT:

Tape the screwdriver tip before use.

4. REMOVE REAR DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



5. REMOVE COWL SIDE TRIM BOARD LH

(a) Remove the cap nut.

(b) Using a screwdriver, disengage the 2 clips and remove the trim board.

HINT:

Tape the screwdriver tip before use.

6. REMOVE COWL SIDE TRIM BOARD RH

HINT:

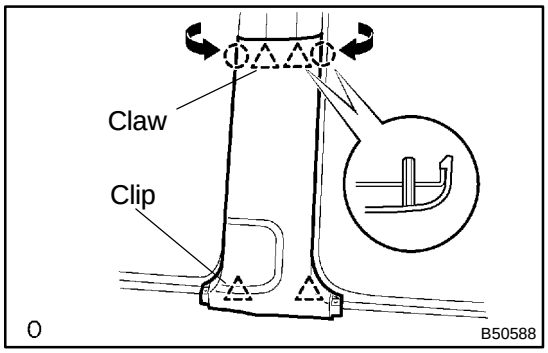
Use the same procedures for the LH side.

7. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

8. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH

9. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH

10. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH



11. REMOVE CENTER PILLAR GARNISH LOWER LH

(a) Using the screwdriver, disengage the clips and claws.

HINT:

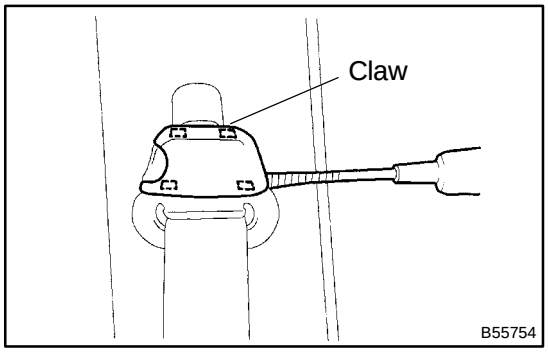
Tape the screwdriver tip before use.

(b) Pull the garnish upward to remove it.

12. REMOVE CENTER PILLAR GARNISH LOWER RH

HINT:

Use the same procedures for the LH side.



13. REMOVE CENTER PILLAR GARNISH LH

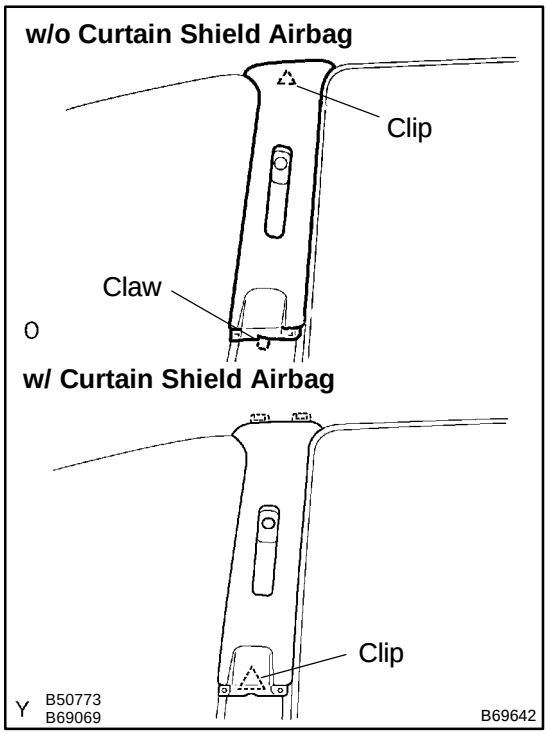
(a) Using a screwdriver, disengage the 4 claws and remove the shoulder anchor cover cap.

HINT:

Tape the screwdriver tip before use.

(b) Remove the bolt and front seat outer belt shoulder anchor.

(c) Remove the bolt and front seat outer belt floor anchor.



(d) w/o Curtain shield airbag:
Using a screwdriver, disengage the clip, claw and remove the garnish.

HINT:

Tape the screwdriver tip before use.

(e) w/ Curtain shield airbag:
Using a screwdriver, disengage the clip and remove the garnish.

HINT:

Tape the screwdriver tip before use.

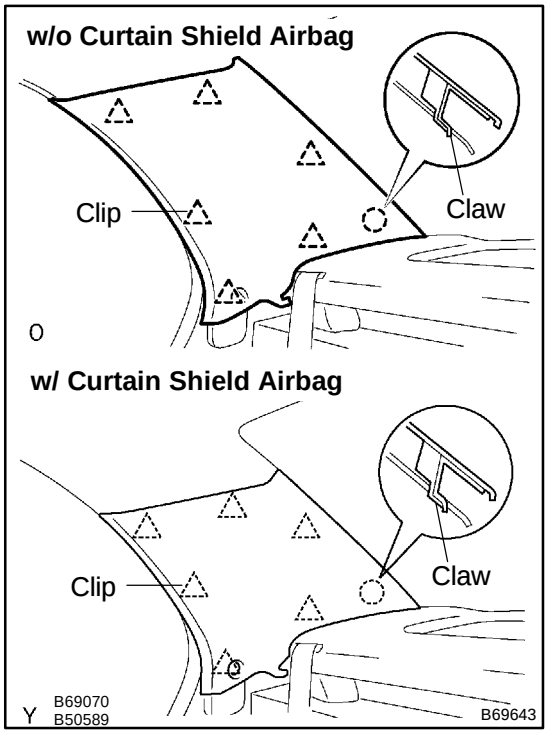
14. REMOVE CENTER PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

15. REMOVE REAR SEAT CUSHION ASSEMBLY

16. REMOVE REAR SEATBACK ASSY (See Pub. No. RM925E, page 72-12, 72-16)



17. REMOVE ROOF SIDE GARNISH INNER LH

(a) Using a screwdriver, disengage the 6 clips,claw and remove the garnish.

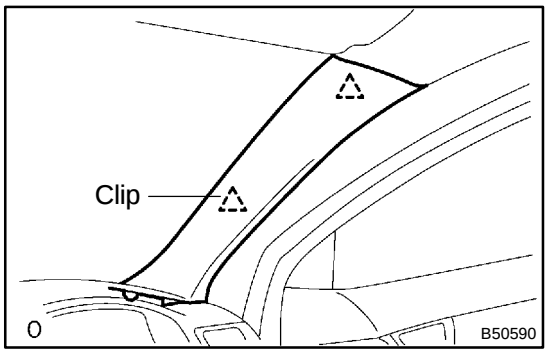
HINT:

Tape the screwdriver tip before use.

18. REMOVE ROOF SIDE GARNISH INNER RH

HINT:

Use the same procedures for the LH side.



19. REMOVE FRONT PILLAR GARNISH LH

(a) Using a screwdriver, disengage the 2 clips and remove the garnish.

HINT:

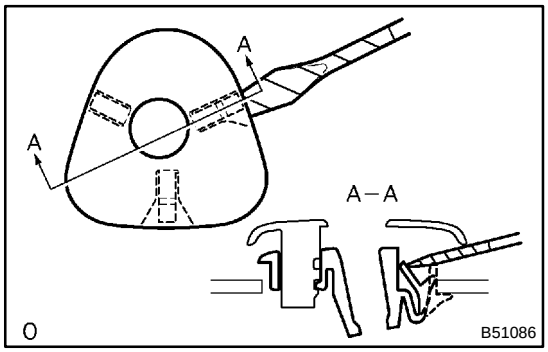
Tape the screwdriver tip before use.

20. REMOVE FRONT PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

21. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70-1)



22. REMOVE LH VISOR ASSY

(a) Using a screwdriver, remove the sun visor, as shown in the illustration.

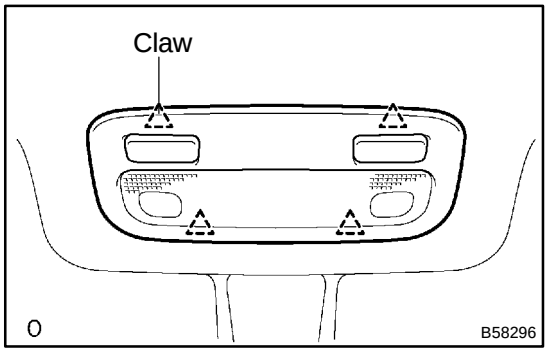
HINT:

Tape the screwdriver tip before use.

23. REMOVE RH VISOR ASSY

HINT:

Use the same procedures for the LH side.

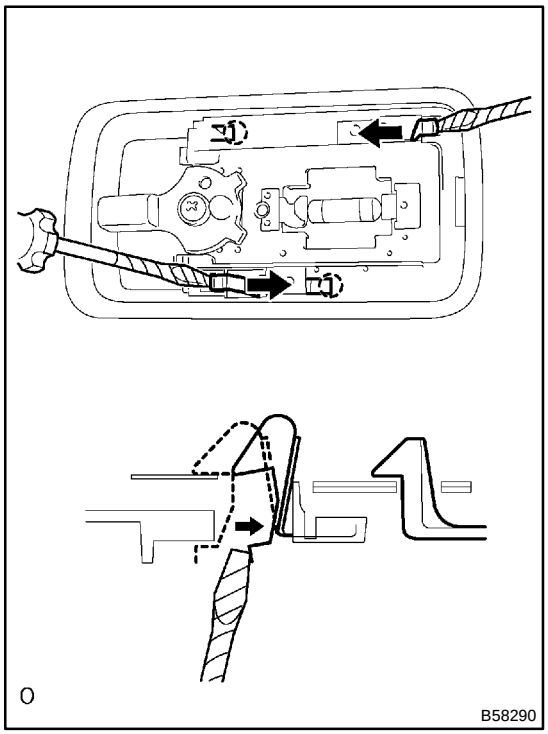


24. REMOVE MAP LAMP ASSY

(a) Using a screwdriver, disengage the 4 claws and remove the map lamp and disconnect the connector.

HINT:

Tape the screwdriver tip before use.



25. REMOVE ROOM LAMP ASSY NO.1

(a) Using a screwdriver, disengage the 4 claws and remove the lens cover.

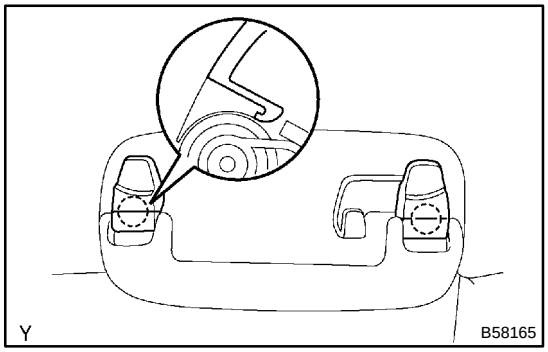
HINT:

Tape the screwdriver tip before use.

(b) Using a screwdriver, disengage the 2 clips, 2 claws and remove the room lamp, as shown in the illustration.

HINT:

Tape the screwdriver tip before use.



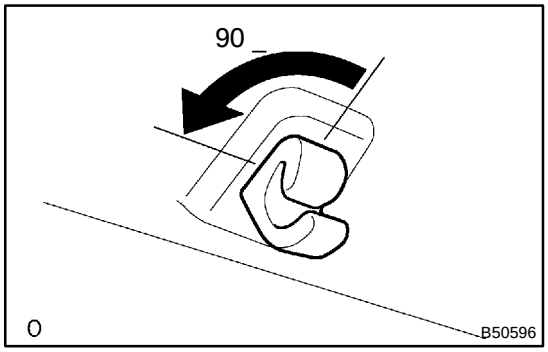
26. REMOVE ASSIST GRIP SUB-ASSY

(a) Using a screwdriver, disengage the claw and remove the 2 assist grip covers.

HINT:

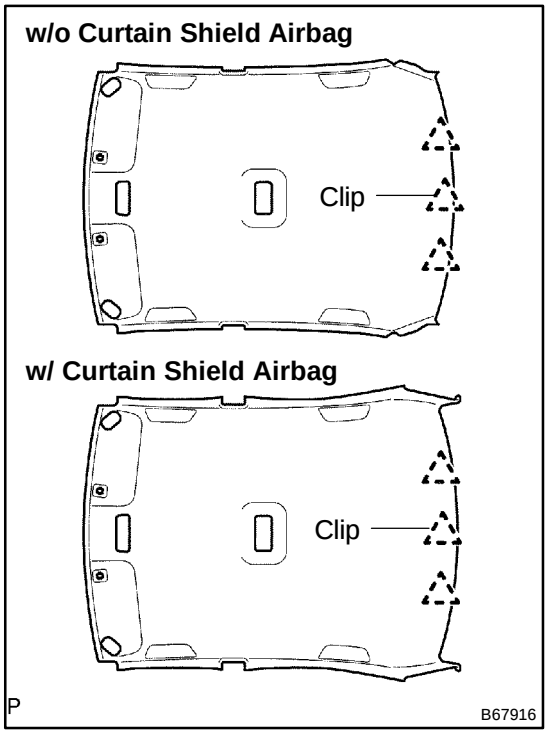
Tape the screwdriver tip before use.

(b) Remove the 2 screws and assist grip.



27. REMOVE VISOR HOLDER

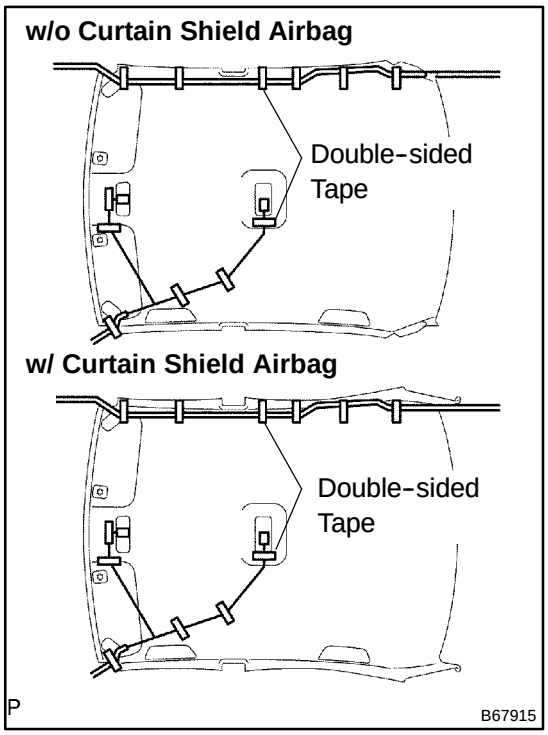
(a) Remove the holder of the sun visor by turning it counter-clockwise.



28. REMOVE ROOF HEADLINING ASSY

(a) Using the clip remover, remove the 3 clips and roof headlining.

(b) w/o Curtain shield airbag:
Using a screwdriver, disengage the 2 claws and remove the 4 side rail spacer.



29. INSTALL ROOF HEADLINING ASSY

(a) Align the markings and install the wire harness with tape.

HINT:

Be careful for dirt or foreign objects not to stick to the adhered part when peeling off the double-sided tape.

(b) Attach the roof wire harness across the adhered part.

NOTICE:

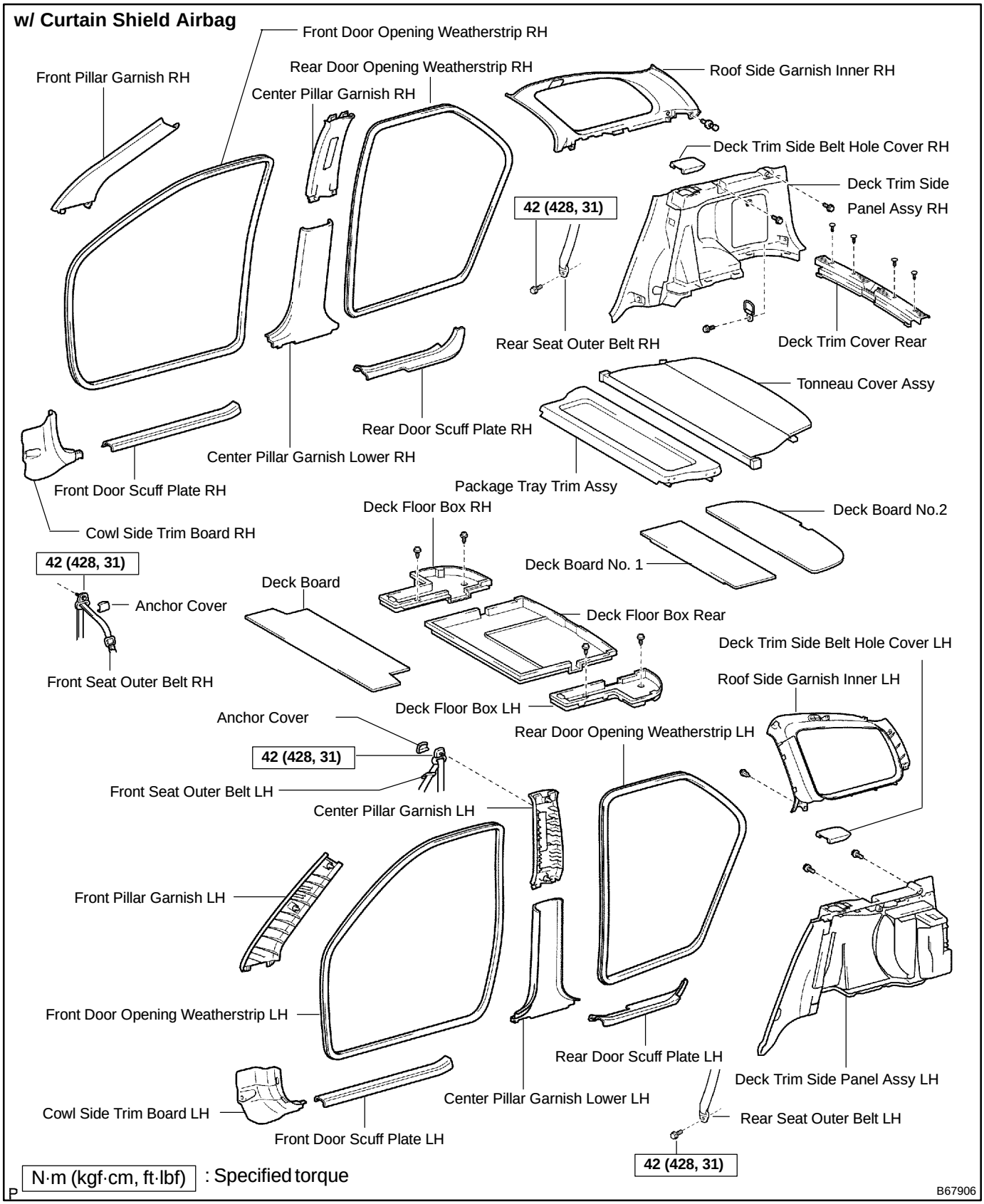
Attach the roof wire harness should be attached securely.

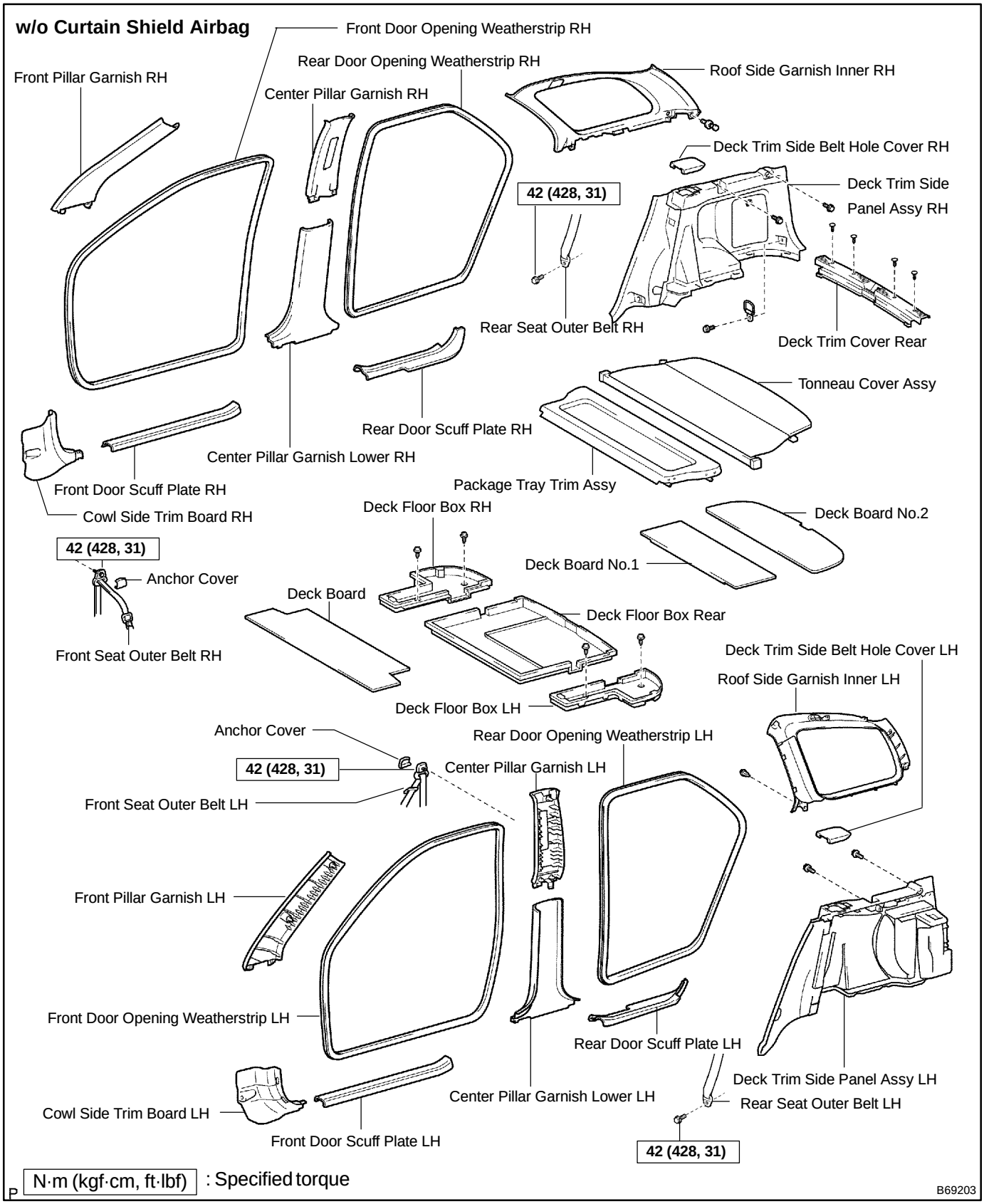
(c) Install the headlining with the 3 clips.

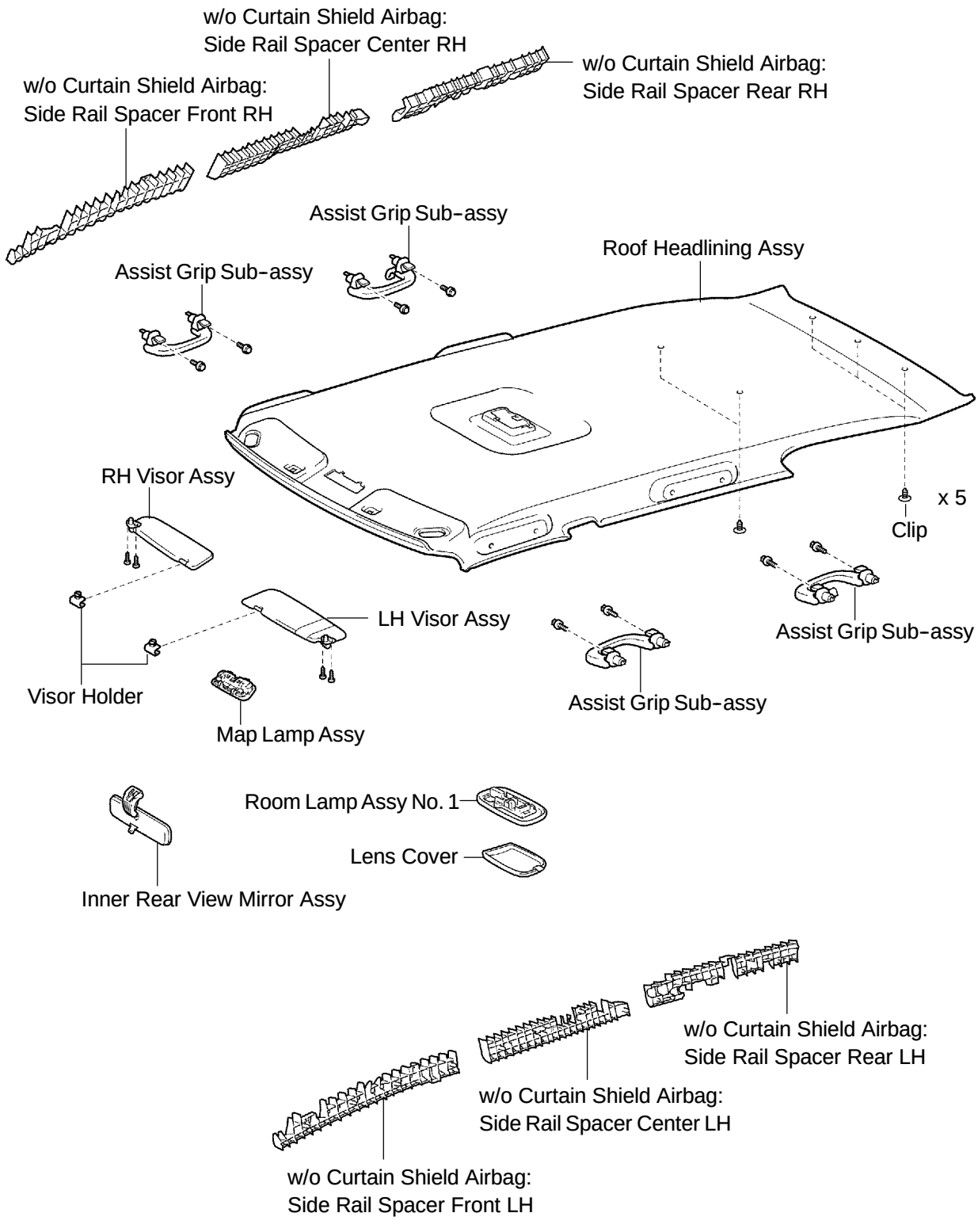
ROOF HEADLINING (WAGON MODELS)

760UZ-01

COMPONENTS



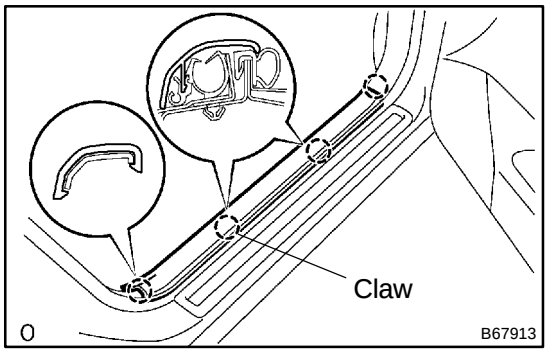

w/o Curtain Shield Airbag
Front Door Opening Weatherstrip RH
Rear Door Opening Weatherstrip RH
Front Pillar Garnish RH
Center Pillar Garnish RH
Roof Side Garnish Inner RH
Deck Trim Side Belt Hole Cover RH
42 (428, 31)
Deck Trim Side Panel Assy RH
Rear Seat Outer Belt RH
Deck Trim Cover Rear
Tonneau Cover Assy
Rear Door Scuff Plate RH
Center Pillar Garnish Lower RH
Package Tray Trim Assy
Front Door Scuff Plate RH
Cowl Side Trim Board RH
Deck Floor Box RH
Deck Board No.2
42 (428, 31)
Anchor Cover
Deck Board No.1
Deck Board
Deck Floor Box Rear
Front Seat Outer Belt RH
Deck Floor Box LH
Deck Trim Side Belt Hole Cover LH
Roof Side Garnish Inner LH
Anchor Cover
Rear Door Opening Weatherstrip LH
42 (428, 31)
Center Pillar Garnish LH
Front Seat Outer Belt LH
Front Pillar Garnish LH
Front Door Opening Weatherstrip LH
Rear Door Scuff Plate LH
Deck Trim Side Panel Assy LH
Rear Seat Outer Belt LH
Center Pillar Garnish Lower LH
Cowl Side Trim Board LH
Front Door Scuff Plate LH
42 (428, 31)
N·m (kgf·cm, ft·lbf) : Specified torque
B69203


w/o Curtain Shield Airbag:
Side Rail Spacer Center RH
w/o Curtain Shield Airbag:
Side Rail Spacer Rear RH
w/o Curtain Shield Airbag:
Side Rail Spacer Front RH
Assist Grip Sub-assy
Assist Grip Sub-assy
Roof Headlining Assy
RH Visor Assy
x 5
Clip
LH Visor Assy
Assist Grip Sub-assy
Visor Holder
Map Lamp Assy
Assist Grip Sub-assy
Room Lamp Assy No. 1
Lens Cover
Inner Rear View Mirror Assy
w/o Curtain Shield Airbag:
Side Rail Spacer Rear LH
w/o Curtain Shield Airbag:
Side Rail Spacer Center LH
w/o Curtain Shield Airbag:
Side Rail Spacer Front LH
P
B67905

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.



1. REMOVE FRONT DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 4 claws and remove the scuff plate.

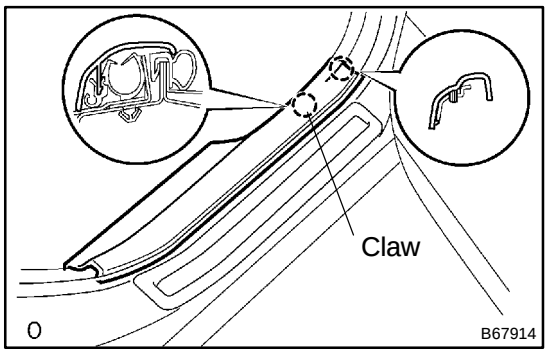
HINT:

Tape the screwdriver tip before use.

2. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



3. REMOVE REAR DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 2 claws and remove the scuff plate.

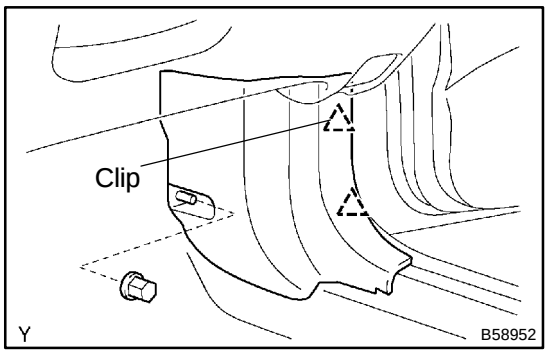
HINT:

Tape the screwdriver tip before use.

4. REMOVE REAR DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



5. REMOVE COWL SIDE TRIM BOARD LH

(a) Remove the cap nut.

(b) Using a screwdriver, disengage the 2 clips and remove the trim board.

HINT:

Tape the screwdriver tip before use.

6. REMOVE COWL SIDE TRIM BOARD RH

HINT:

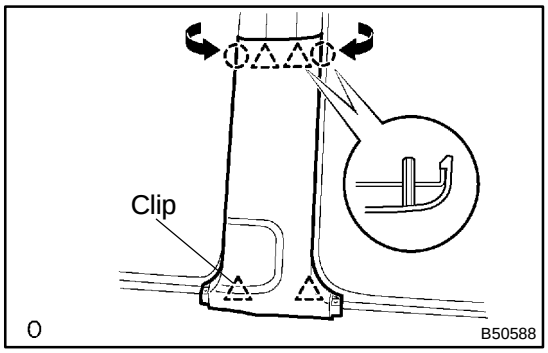
Use the same procedures for the LH side.

7. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

8. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH

9. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH

10. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH



11. REMOVE CENTER PILLAR GARNISH LOWER LH

(a) Using the screwdriver, disengage the clips and claws.

HINT:

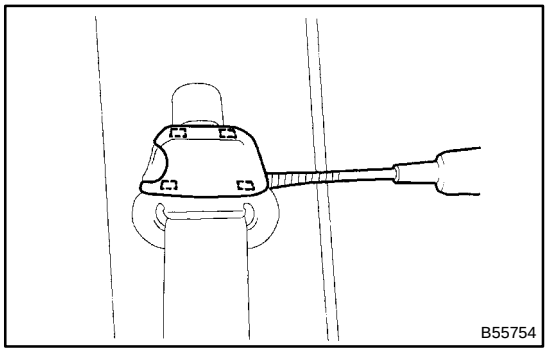
Tape the screwdriver tip before use.

(b) Pull the garnish upward to remove it.

12. REMOVE CENTER PILLAR GARNISH LOWER RH

HINT:

Use the same procedures for the LH side.



13. REMOVE CENTER PILLAR GARNISH LH

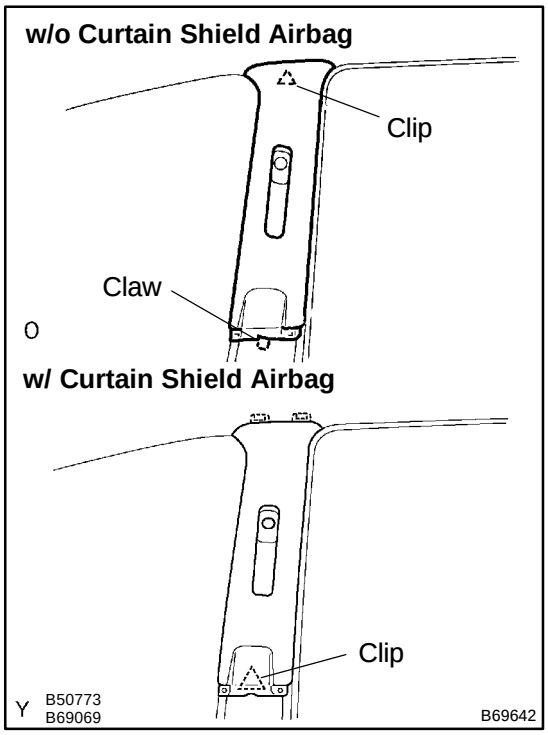
(a) Using a screwdriver, disengage the 4 claws and remove the shoulder anchor cover cap.

HINT:

Tape the screwdriver tip before use.

(b) Remove the bolt and front seat outer belt shoulder anchor.

(c) Remove the bolt and front seat outer belt floor anchor.



(d) w/o Curtain shield airbag:
Using a screwdriver, disengage the clip, claw and remove the center pillar garnish.

HINT:

Tape the screwdriver tip before use.

(e) w/ Curtain shield airbag:
Using a screwdriver, disengage the clip and remove the garnish.

HINT:

Tape the screwdriver tip before use.

14. REMOVE CENTER PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

15. REMOVE REAR SEATBACK ASSY (See page 72–3)

16. REMOVE DECK BOARD NO.1

17. REMOVE DECK BOARD NO.2

18. REMOVE TONNEAU COVER ASSY

19. REMOVE PACKAGE TRAY TRIM PANEL ASSY

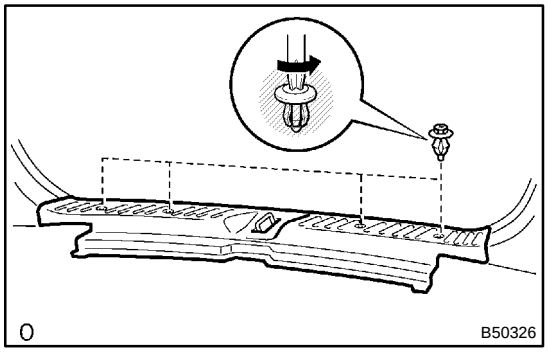
20. REMOVE DECK FLOOR BOX REAR

21. REMOVE DECK FLOOR BOX LH

(a) Remove the 2 screws and deck floor box.

22. REMOVE DECK FLOOR BOX RH

(a) Remove the 2 screws and deck floor box.



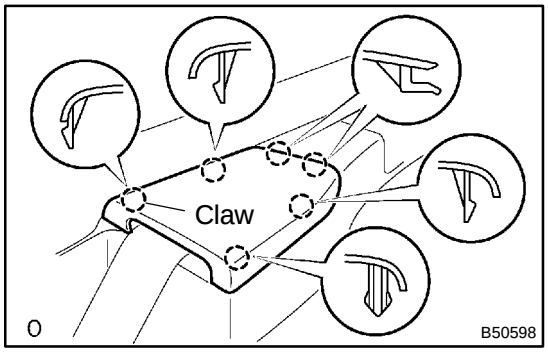
23. REMOVE DECK TRIM COVER REAR

(a) Remove the 4 clips.

(b) Using a screwdriver, remove the trim cover.

HINT:

Tape the screwdriver tip before use.



24. REMOVE DECK TRIM SIDE BELT HOLE COVER LH

(a) Using a screwdriver, disengage the 6 clips and remove the trim side belt hole cover.

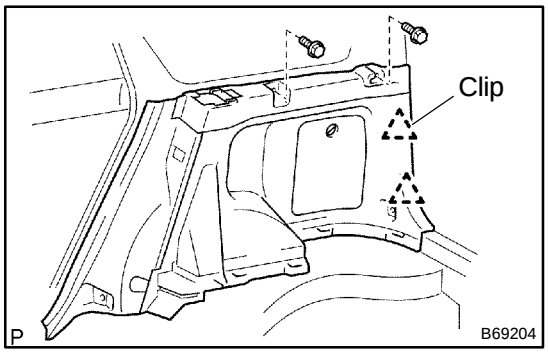
HINT:

Tape the screwdriver tip before use.

25. REMOVE DECK TRIM SIDE BELT HOLE COVER RH

HINT:

Use the same procedures for the LH side.



26. REMOVE DECK TRIM SIDE PANEL ASSY LH

(a) Remove the 3 screws.

(b) Using a screwdriver, disengage the 2 clips and remove the trim side panel.

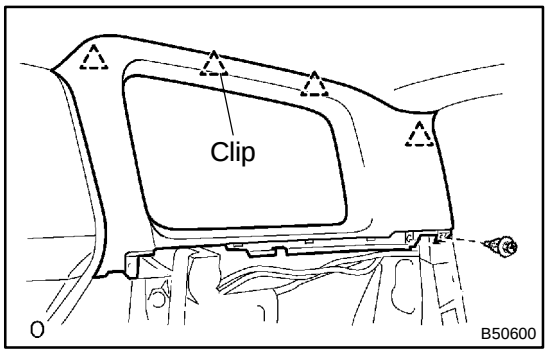
HINT:

Tape the screwdriver tip before use.

27. REMOVE DECK TRIM SIDE PANEL ASSY RH

HINT:

Use the same procedures for the LH side.



28. REMOVE ROOF SIDE GARNISH INNER LH

(a) Using a screwdriver, disengage the 4 clips, remove the garnish.

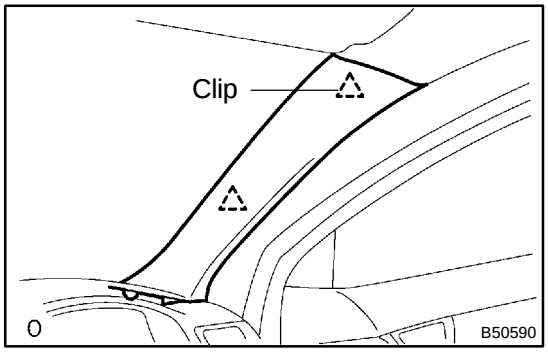
HINT:

Tape the screwdriver tip before use.

29. REMOVE ROOF SIDE GARNISH INNER RH

HINT:

Use the same procedures for the LH side.



30. REMOVE FRONT PILLAR GARNISH LH

(a) Using a screwdriver, disengage the 2 clips and remove the garnish.

HINT:

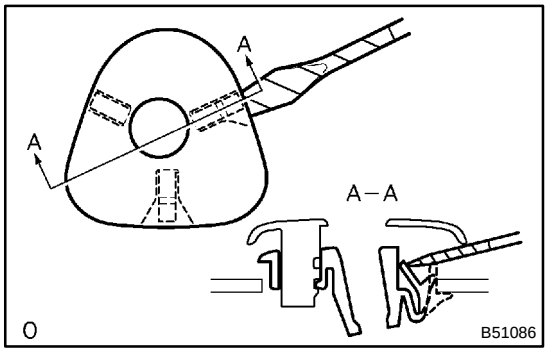
Tape the screwdriver tip before use.

31. REMOVE FRONT PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

32. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70-1)



33. REMOVE LH VISOR ASSY

(a) Using a screwdriver, disengage the 3 claws and remove the sun visor, as shown in the illustration.

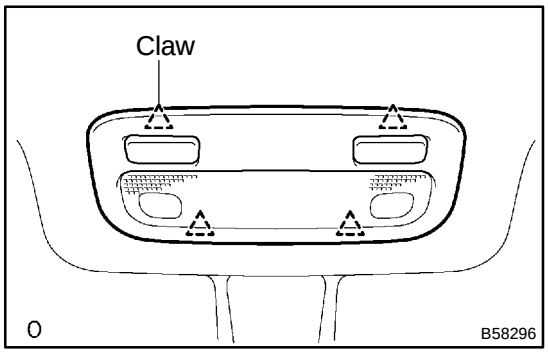
HINT:

Tape the screwdriver tip before use.

34. REMOVE RH VISOR ASSY

HINT:

Use the same procedures for the LH side.

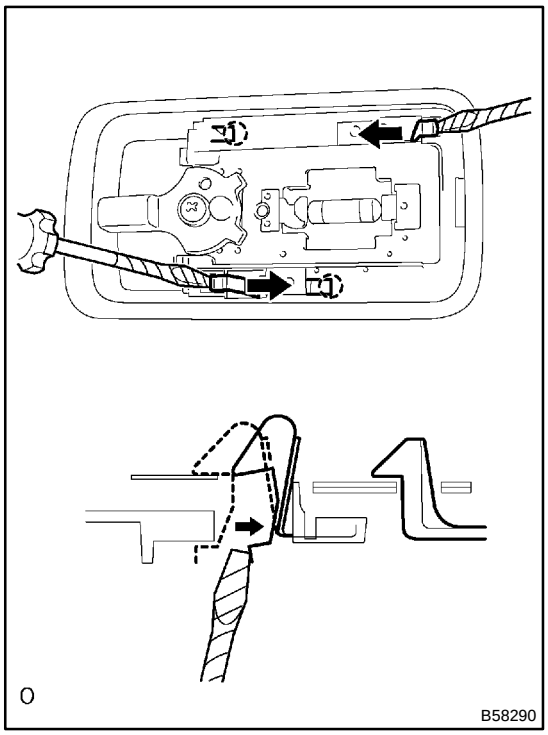


35. REMOVE MAP LAMP ASSY

(a) Using a screwdriver, disengage the 4 claws and remove the map lamp and disconnect the connector.

HINT:

Tape the screwdriver tip before use.



36. REMOVE ROOM LAMP ASSY NO.1

(a) Using a screwdriver, disengage the 4 claws and remove the lens cover.

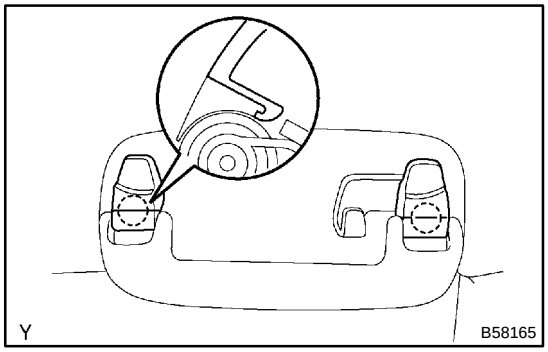
HINT:

Tape the screwdriver tip before use.

(b) Using a screwdriver, disengage the 2 clips, 2 claws and remove the room lamp assy, as shown in the illustration.

HINT:

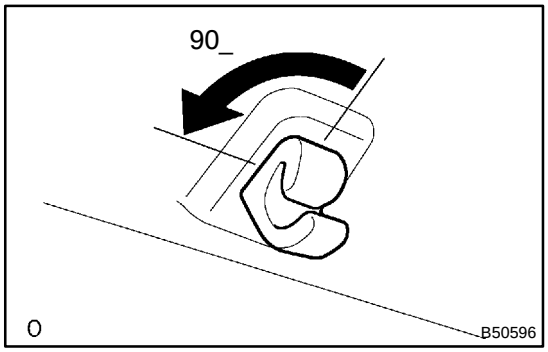
Tape the screwdriver tip before use.



37. REMOVE ASSIST GRIP SUB-ASSY

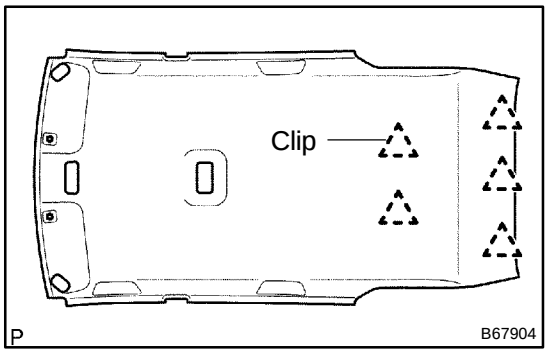
(a) Using a screwdriver, disengage the claw and remove the 2 assist grip covers.

(b) Remove the 2 screws and assist grip.



38. REMOVE VISOR HOLDER

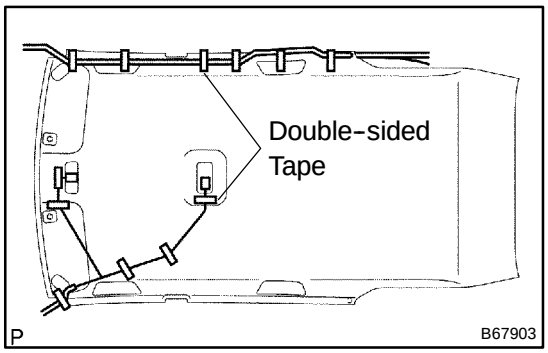
(a) Remove the holder of the visor by turning it counterclockwise.



39. REMOVE ROOF HEADLINING ASSY

(a) Disengage the 5 clips and remove the roof headlining.

(b) w/o Curtain shield airbag:
Using a screwdriver, disengage the claws and remove the 4 side rail spacers.



40. INSTALL ROOF HEADLINING ASSY

(a) Align the markings and install the wire harness with tape.

HINT:

Be careful that dirt or foreign objects do not stick to the adhesive part when peeling off the double-sided tape.

(b) Attach the roof wire harness across the adhesive part.

NOTICE:

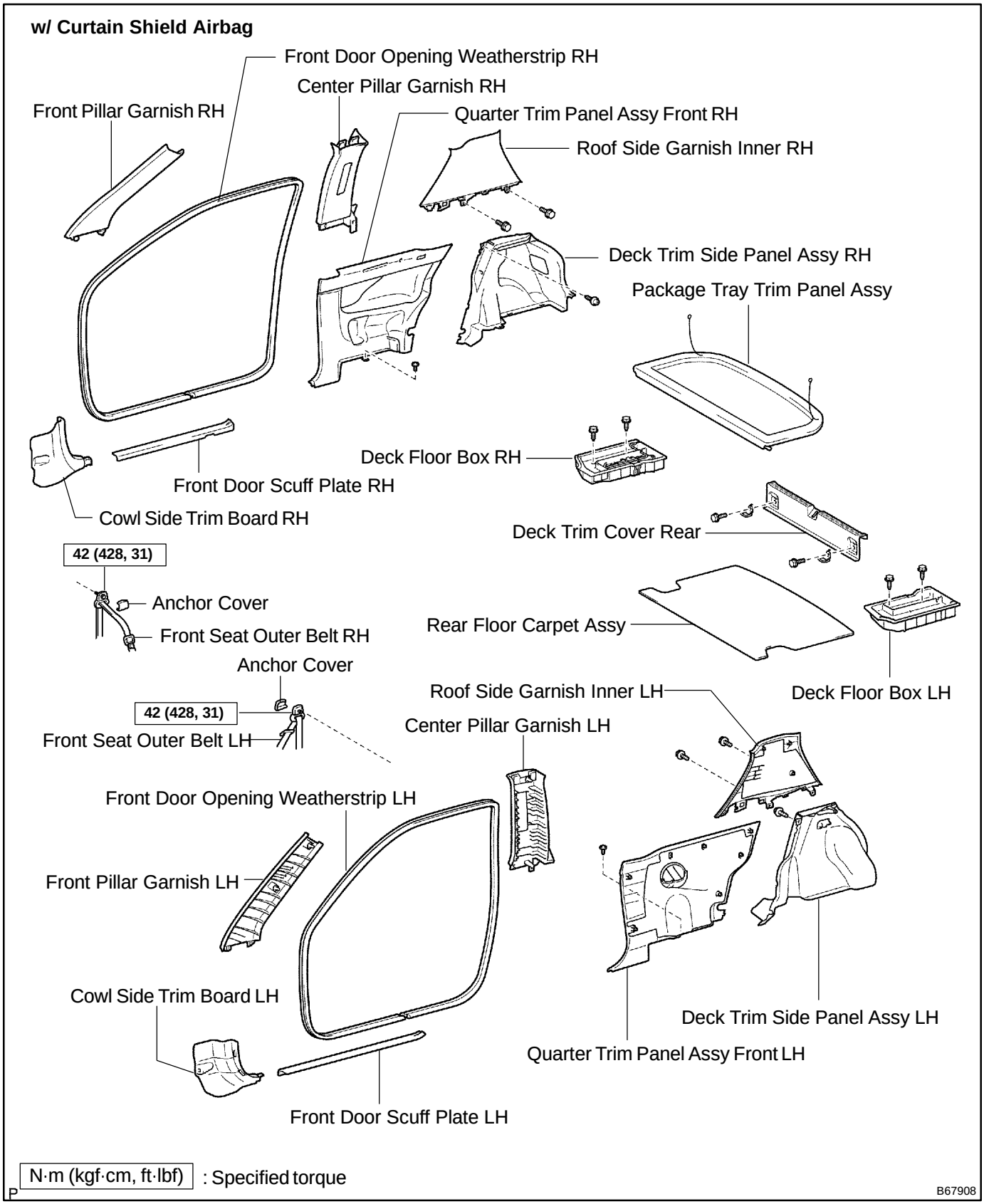
Attach the roof wire harness securely.

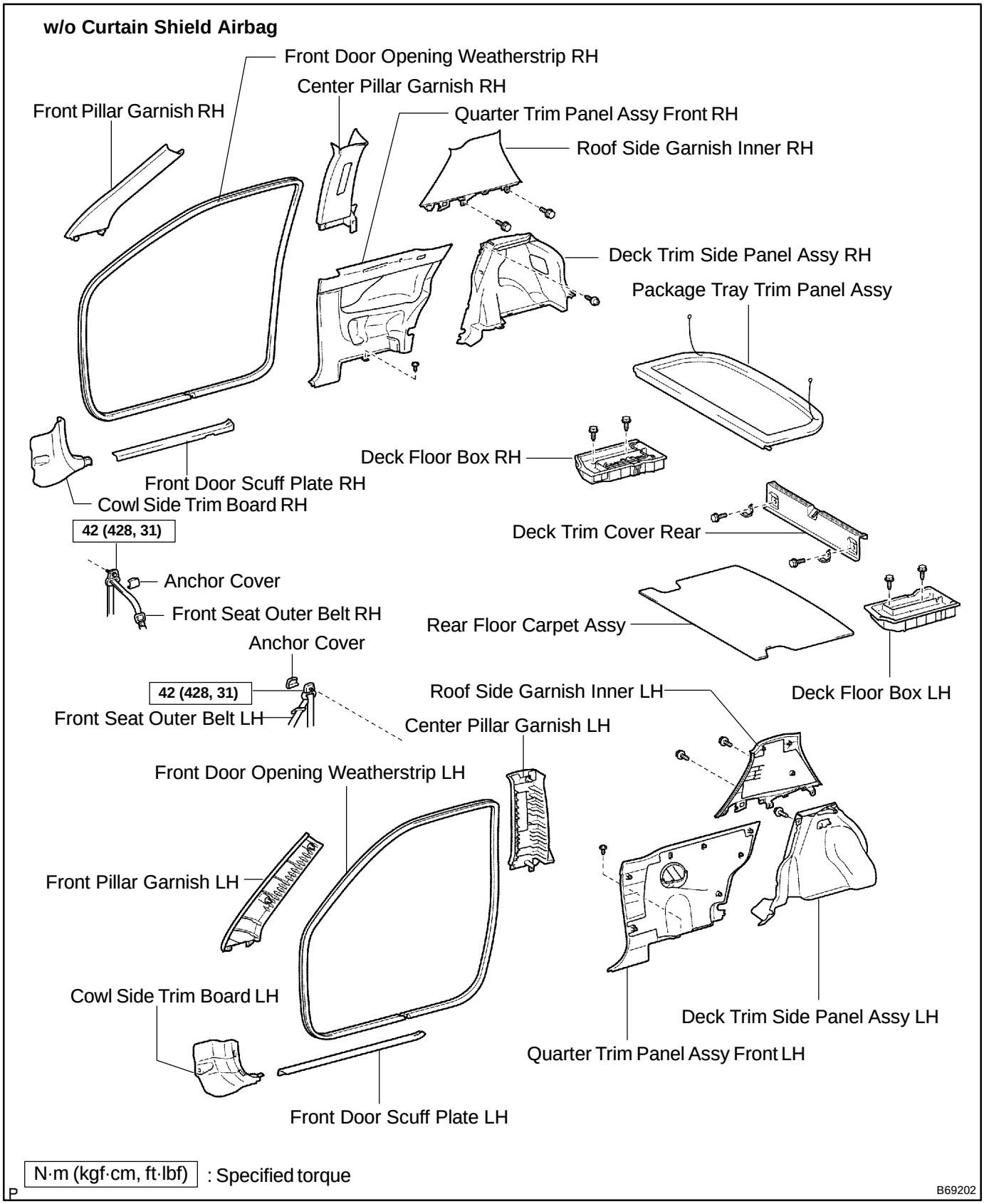
(c) Install the headlining with the 5 clips.

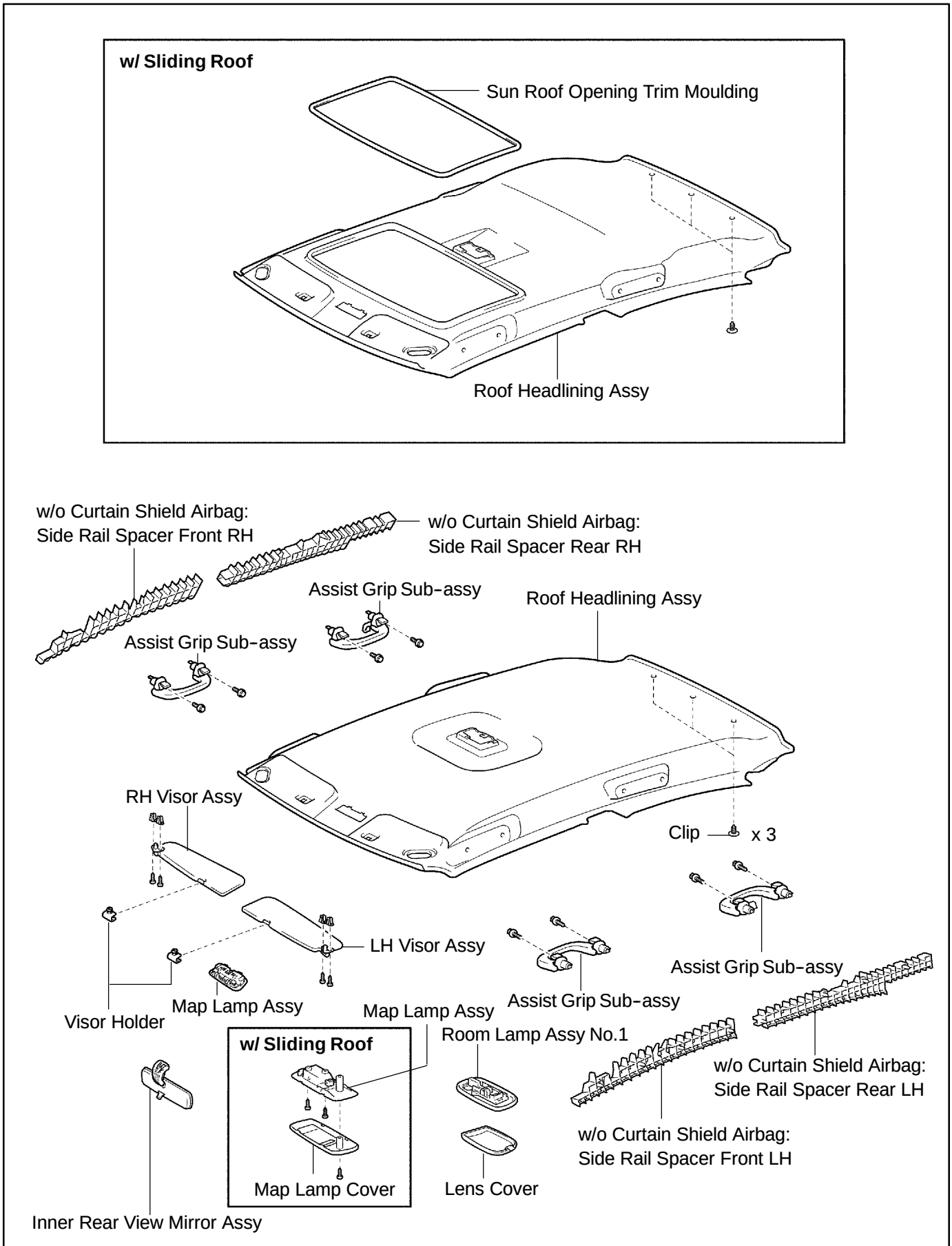
ROOF HEADLINING (3-DOOR HATCHBACK MODELS)

760UV-01

COMPONENTS



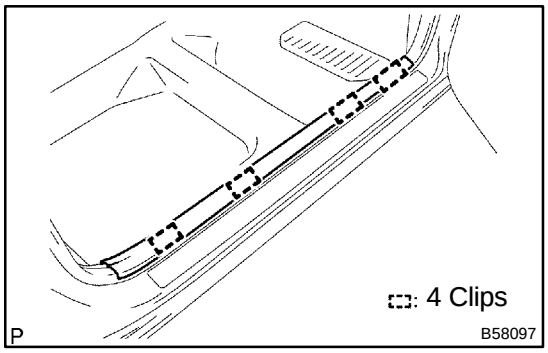

w/o Curtain Shield Airbag
Front Door Opening Weatherstrip RH
Center Pillar Garnish RH
Front Pillar Garnish RH
Quarter Trim Panel Assy Front RH
Roof Side Garnish Inner RH
Deck Trim Side Panel Assy RH
Package Tray Trim Panel Assy
Deck Floor Box RH
Front Door Scuff Plate RH
Cowl Side Trim Board RH
42 (428, 31)
Anchor Cover
Front Seat Outer Belt RH
Deck Trim Cover Rear
Rear Floor Carpet Assy
Deck Floor Box LH
Anchor Cover
42 (428, 31)
Front Seat Outer Belt LH
Roof Side Garnish Inner LH
Center Pillar Garnish LH
Front Door Opening Weatherstrip LH
Front Pillar Garnish LH
Cowl Side Trim Board LH
Deck Trim Side Panel Assy LH
Quarter Trim Panel Assy Front LH
Front Door Scuff Plate LH
N·m (kgf·cm, ft·lbf) : Specified torque
P
B69202


w/ Sliding Roof
Sun Roof Opening Trim Moulding
Roof Headlining Assy
w/o Curtain Shield Airbag:
Side Rail Spacer Front RH
w/o Curtain Shield Airbag:
Side Rail Spacer Rear RH
Assist Grip Sub-assy
Assist Grip Sub-assy
Roof Headlining Assy
RH Visor Assy
Clip
x 3
LH Visor Assy
Assist Grip Sub-assy
Assist Grip Sub-assy
Visor Holder
Map Lamp Assy
Map Lamp Assy
Room Lamp Assy No.1
w/ Sliding Roof
w/o Curtain Shield Airbag:
Side Rail Spacer Rear LH
w/o Curtain Shield Airbag:
Side Rail Spacer Front LH
Map Lamp Cover
Lens Cover
Inner Rear View Mirror Assy
P
B67907

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.



1. REMOVE FRONT DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 4 clips and remove the scuff plate.

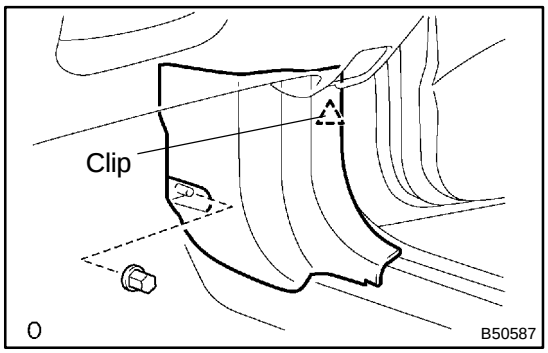
HINT:

Tape the screwdriver tip before use.

2. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



3. REMOVE COWL SIDE TRIM BOARD LH

(a) Remove the cap nut.

(b) Using a screwdriver, disengage the 2 clips and remove the cowl side trim board.

HINT:

Tape the screwdriver tip before use.

4. REMOVE COWL SIDE TRIM BOARD RH

HINT:

Use the same procedures for the LH side.

5. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

6. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH

7. REMOVE REAR SEATBACK ASSY (See Pub. No. RM925E, page 72-24)

8. REMOVE REAR FLOOR CARPET ASSY

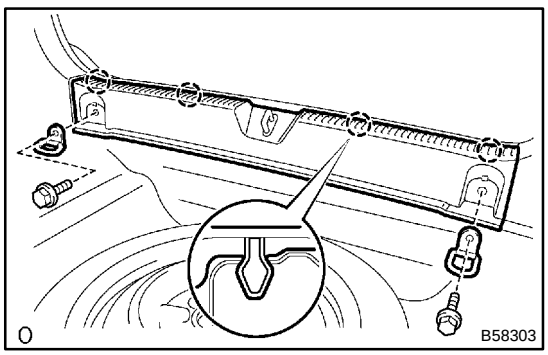
9. REMOVE PACKAGE TRAY TRIM PANEL ASSY

10. REMOVE DECK FLOOR BOX LH

(a) Remove the 2 screws and deck floor box.

11. REMOVE DECK FLOOR BOX RH

(a) Remove the 2 screws and deck floor box.



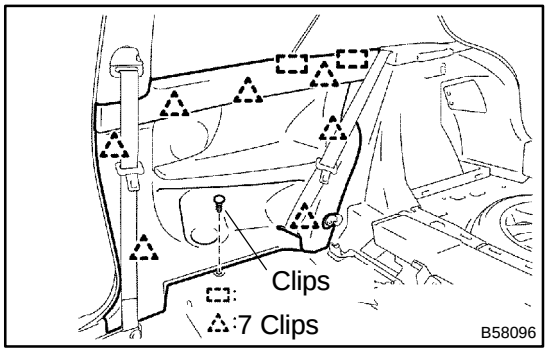
12. REMOVE DECK TRIM COVER REAR

(a) Remove the 2 bolts and the 2 rope hooks.

(b) Using a screwdriver, disengage the 2 claws and remove the deck trim cover rear.

HINT:

Tape the screwdriver tip before use.



13. REMOVE QUARTER TRIM PANEL ASSY FRONT LH

(a) Remove clip indicated.

(b) Using a screwdriver, disengage the other 9 clips and remove the trim panel.

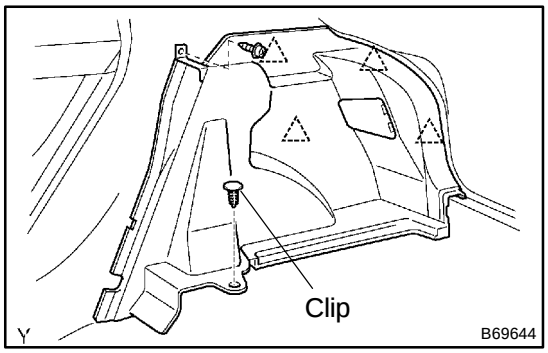
HINT:

Tape the screwdriver tip before use.

14. REMOVE QUARTER TRIM PANEL ASSY FRONT RH

HINT:

Use the same procedures for the LH side.



15. REMOVE DECK TRIM SIDE PANEL ASSY LH

(a) Remove the screw.

(b) Remove clip indicated.

(c) Using a screwdriver, disengage the other 4 clips and remove the trim side panel.

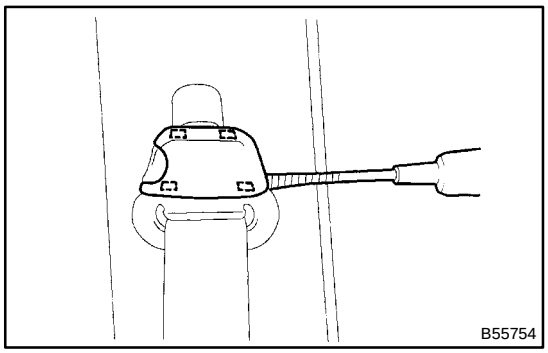
HINT:

Tape the screwdriver tip before use.

16. REMOVE DECK TRIM SIDE PANEL ASSY RH

HINT:

Use the same procedures for the LH side.



17. REMOVE CENTER PILLAR GARNISH LH

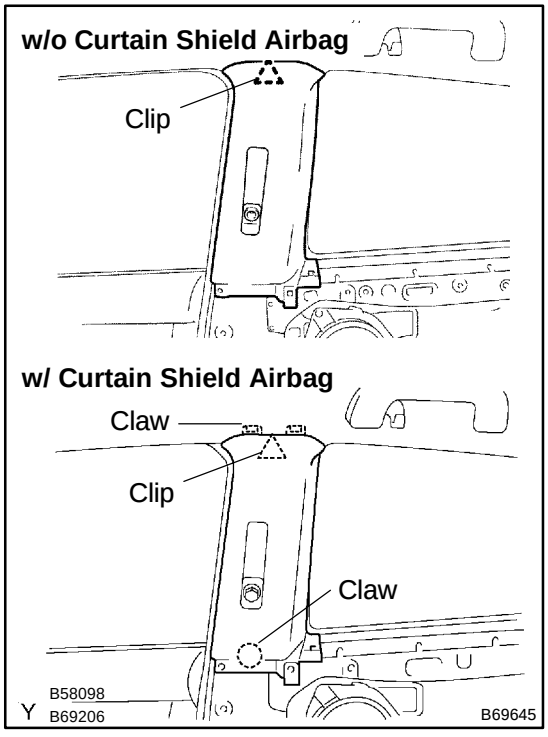
(a) Using a screwdriver, disengage the 4 claws and remove the shoulder anchor cover cap.

HINT:

Tape the screwdriver tip before use.

(b) Remove the bolt and front seat outer belt shoulder anchor.

(c) Remove the bolt and front seat outer belt floor anchor.



(d) w/o Curtain shield airbag:
Using a screwdriver, disengage the clip and remove the garnish.

HINT:

Tape the screwdriver tip before use.

(e) w/ Curtain shield airbag:
Using a screwdriver, disengage the clip and claw and remove the garnish.

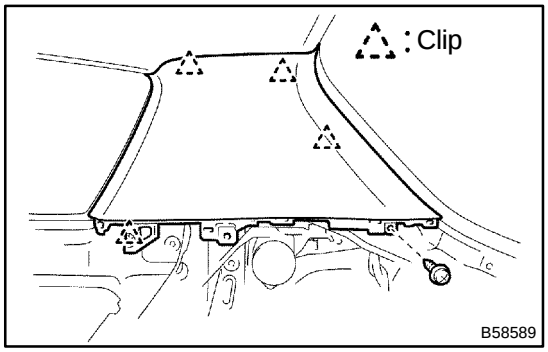
HINT:

Tape the screwdriver tip before use.

18. REMOVE CENTER PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.



19. REMOVE ROOF SIDE GARNISH INNER LH

(a) Remove the screw.

(b) Using a screwdriver, disengage the 3 clips and remove the garnish.

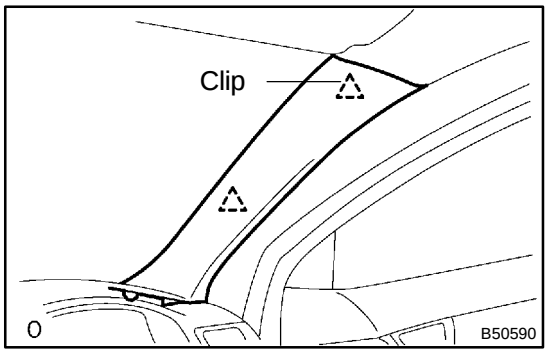
HINT:

Tape the screwdriver tip before use.

20. REMOVE ROOF SIDE GARNISH INNER RH

HINT:

Use the same procedures for the LH side.



21. REMOVE FRONT PILLAR GARNISH LH

(a) Using a screwdriver, disengage the 2 clips and remove the garnish.

HINT:

Tape the screwdriver tip before use.

22. REMOVE FRONT PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

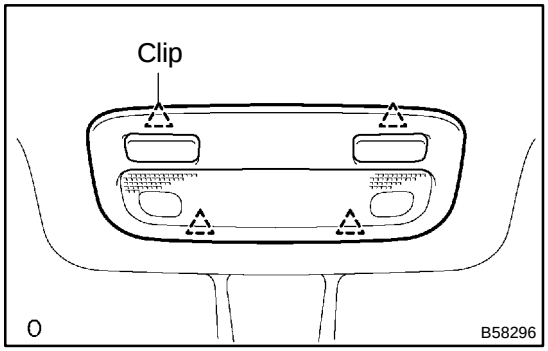
23. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70-1)

24. REMOVE LH VISOR ASSY

(a) Remove the 2 screws and the visor assy.

25. REMOVE RH VISOR ASSY

(a) Remove the 2 screws and the visor assy.

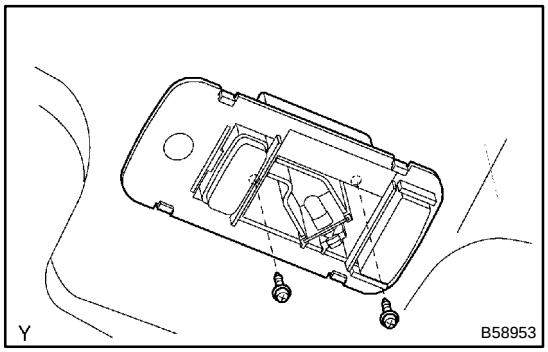


26. REMOVE MAP LAMP ASSY (W/O SLIDING ROOF)

(a) Using a screwdriver, disengage the 4 clips and remove the map lamp, and disconnect the connector.

HINT:

Tape the screwdriver tip before use.



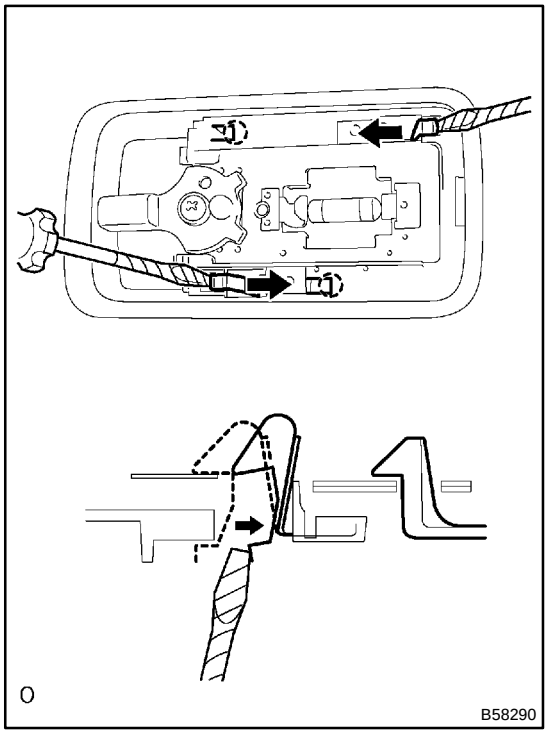
27. REMOVE MAP LAMP ASSY (W/ SLIDING ROOF)

(a) Using a screwdriver, disengage the 4 claws and remove the 2 screw and map lamp cover.

HINT:

Tape the screwdriver tip before use.

(b) Remove the 2 screws and map lamp, and disconnect the connector.



28. REMOVE ROOM LAMP ASSY NO.1

(a) Using a screwdriver, disengage the 4 claws and remove the lens cover.

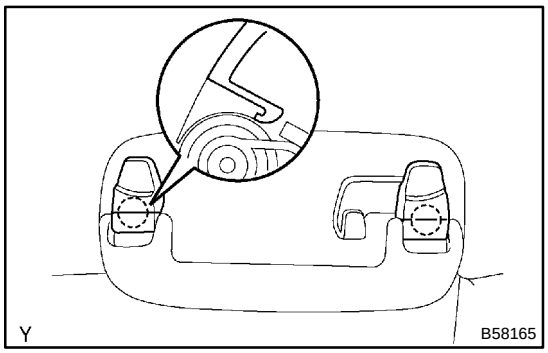
HINT:

Tape the screwdriver tip before use.

(b) Using a screwdriver, disengage the 2 clips, 2 claws and remove the room lamp, as shown in the illustration.

HINT:

Tape the screwdriver tip before use.



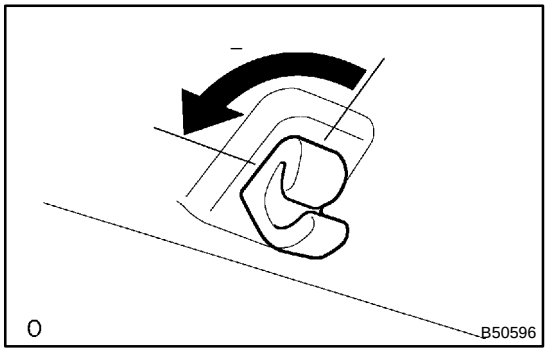
29. REMOVE ASSIST GRIP SUB-ASSY

(a) Using a screwdriver, disengage the claw and remove the 2 assist grip covers.

HINT:

Tape the screwdriver tip before use.

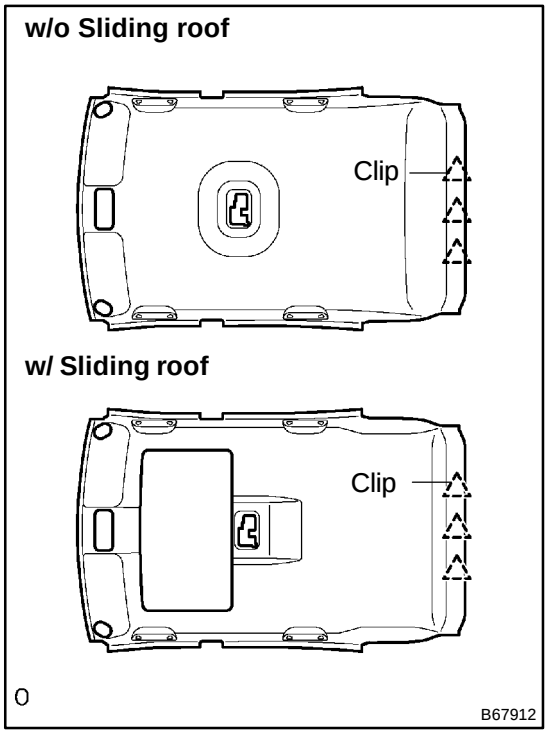
(b) Remove the 2 screws and assist grip.



30. REMOVE VISOR HOLDER

(a) Remove the holder of the visor by turning it counterclockwise.

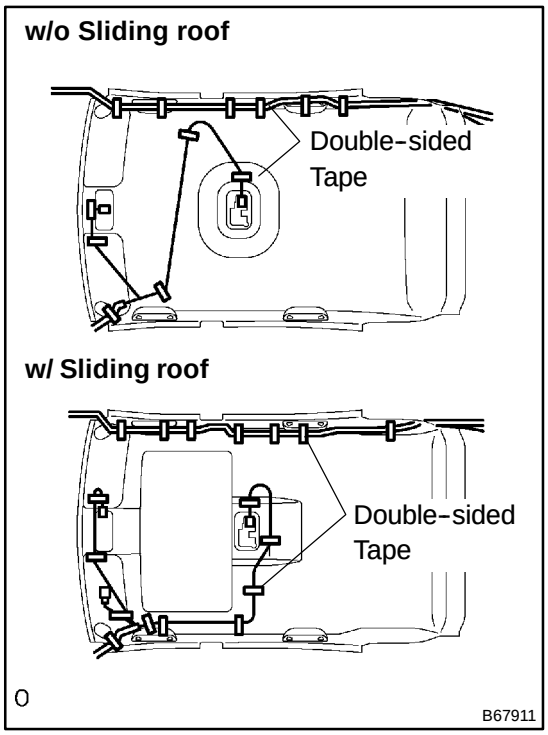
31. REMOVE SUN ROOF OPENING TRIM MOULDING (W/ SLIDING ROOF)



32. REMOVE ROOF HEADLINING ASSY

(a) Using the clip remover, disengage the 3 clips and remove the roof headlining.

(b) w/o Curtain shield airbag:
Using a screwdriver, disengage the 2 claws and remove the 4 side rail spacers.



33. INSTALL ROOF HEADLINING ASSY

(a) Align the markings and install the wire harness with tape.

HINT:

Be careful that dirt or foreign objects do not stick to the adhesive part when peeling off the double-sided tape.

(b) Attach the roof wire harness across the adhesive part.

NOTICE:

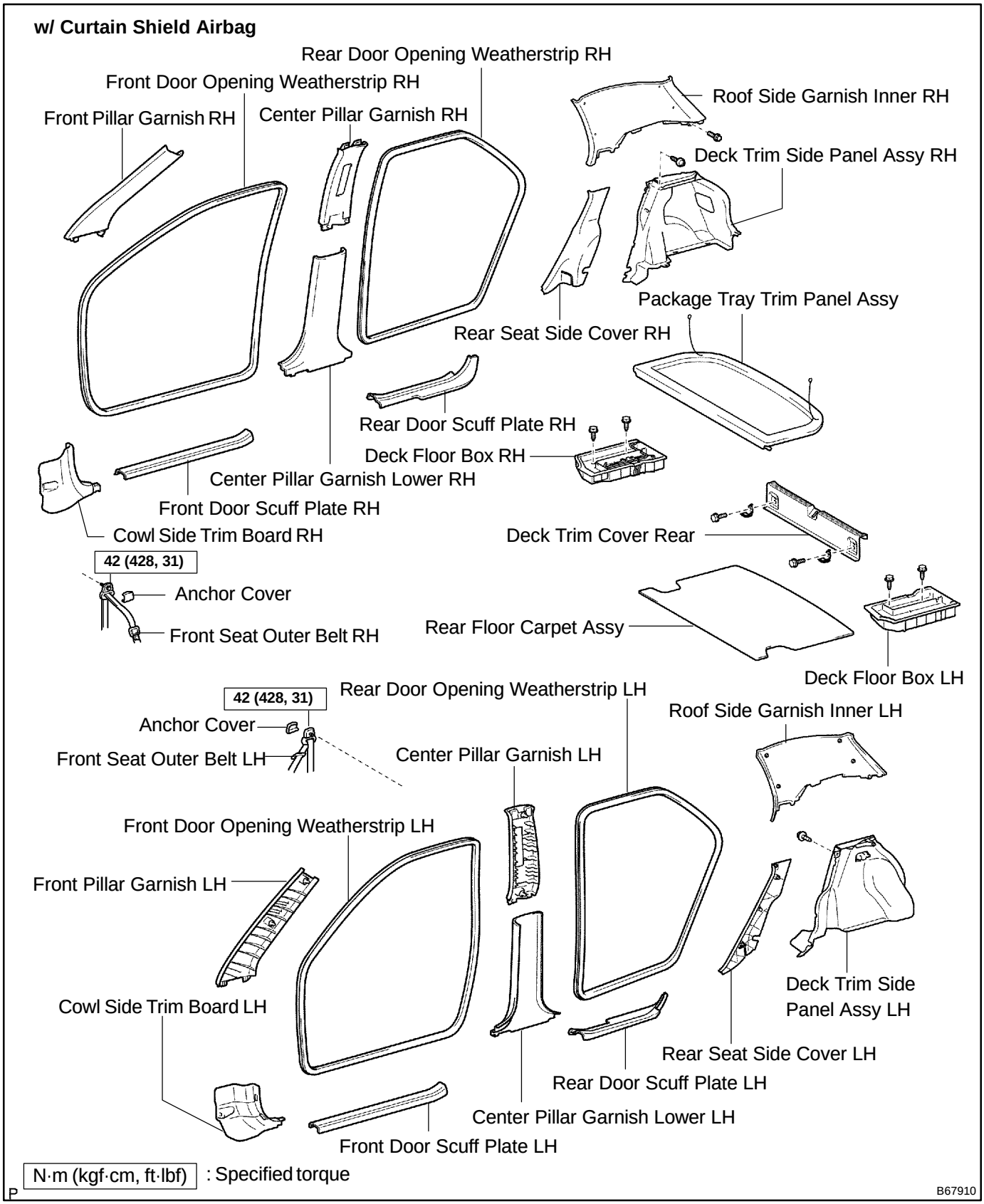
Attach the roof wire harness securely.

(c) Install the headlining with the 3 clips.

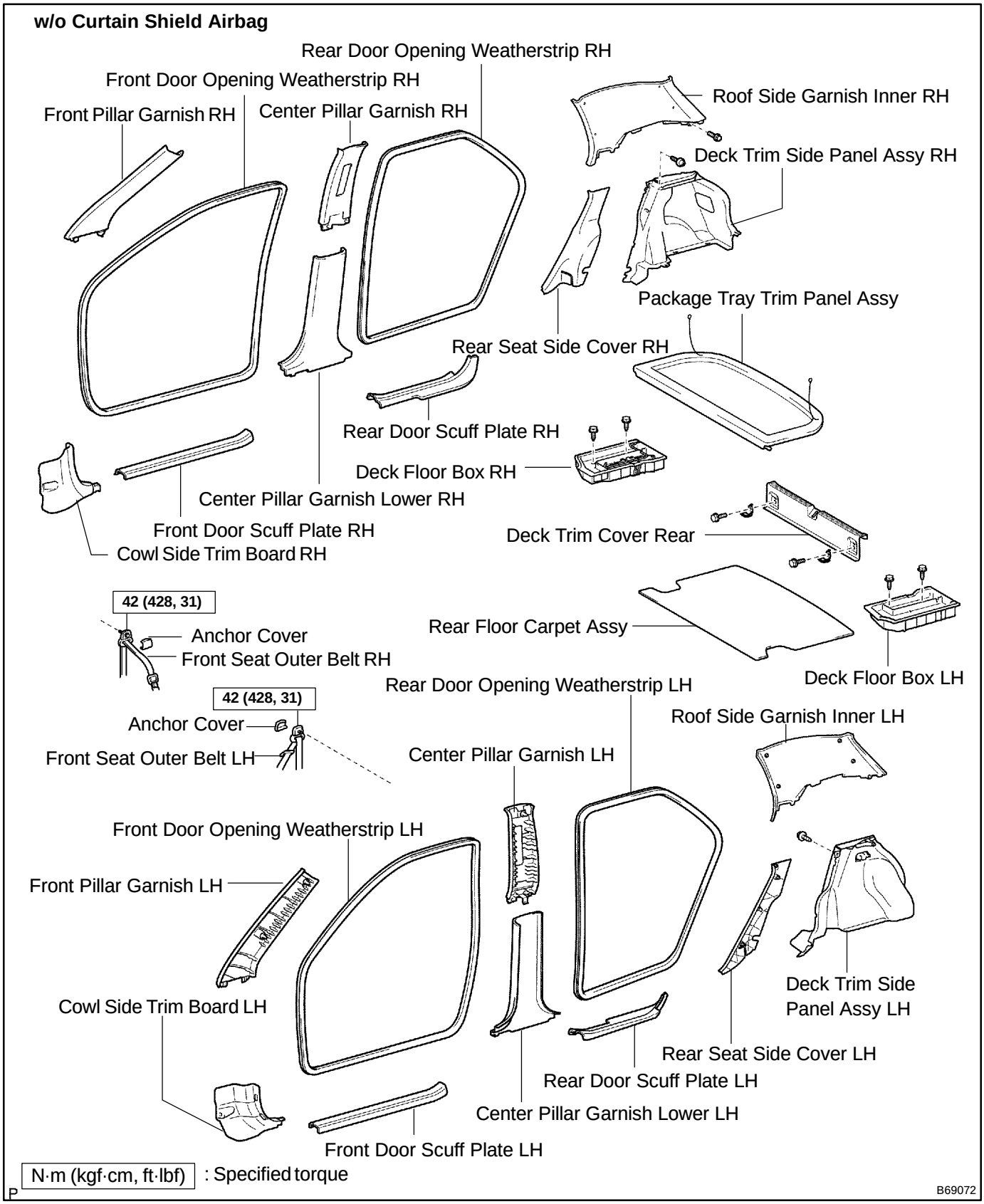
ROOF HEADLINING (5-DOOR HATCHBACK MODELS)

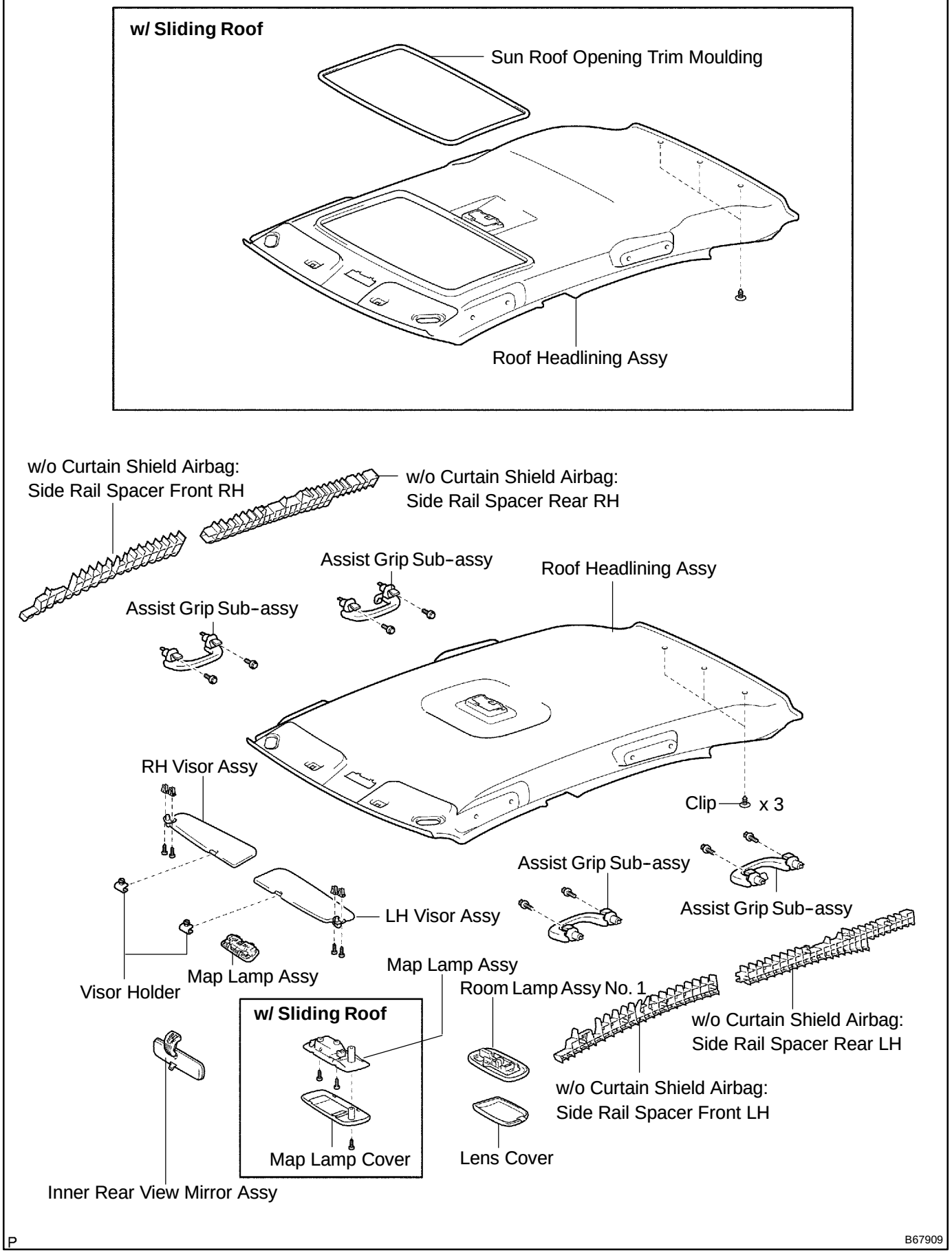
760UX-01

COMPONENTS



w/o Curtain Shield Airbag

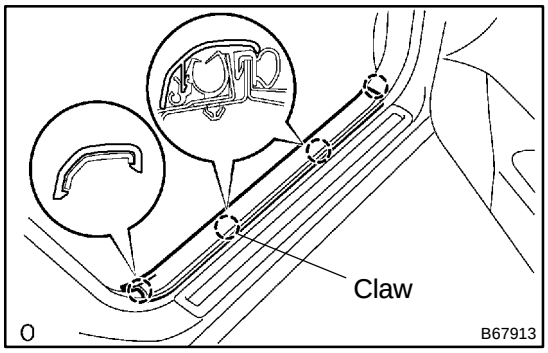



w/ Sliding Roof
Sun Roof Opening Trim Moulding
Roof Headlining Assy
w/o Curtain Shield Airbag:
Side Rail Spacer Front RH
w/o Curtain Shield Airbag:
Side Rail Spacer Rear RH
Assist Grip Sub-assy
Assist Grip Sub-assy
Roof Headlining Assy
RH Visor Assy
Clip
x 3
Assist Grip Sub-assy
Assist Grip Sub-assy
LH Visor Assy
Visor Holder
Map Lamp Assy
Map Lamp Assy
Room Lamp Assy No. 1
w/o Curtain Shield Airbag:
Side Rail Spacer Rear LH
w/ Sliding Roof
w/o Curtain Shield Airbag:
Side Rail Spacer Front LH
Map Lamp Cover
Lens Cover
Inner Rear View Mirror Assy
P
B67909

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.



1. REMOVE FRONT DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 2 claws and remove the scuff plate.

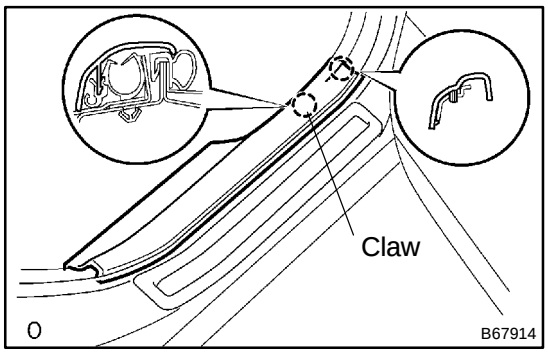
HINT:

Tape the screwdriver tip before use.

2. REMOVE FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



3. REMOVE REAR DOOR SCUFF PLATE LH

(a) Using a screwdriver, disengage the 4 claws and remove the scuff plate.

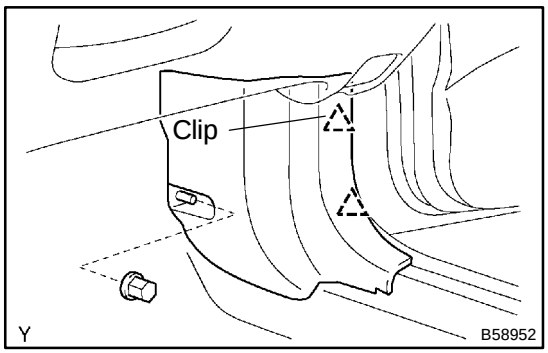
HINT:

Tape the screwdriver tip before use.

4. REMOVE REAR DOOR SCUFF PLATE RH

HINT:

Use the same procedures for the LH side.



5. REMOVE COWL SIDE TRIM BOARD LH

(a) Remove the cap nut.

(b) Using a screwdriver, disengage the 2 clips and remove the trim board.

HINT:

Tape the screwdriver tip before use.

6. REMOVE COWL SIDE TRIM BOARD RH

HINT:

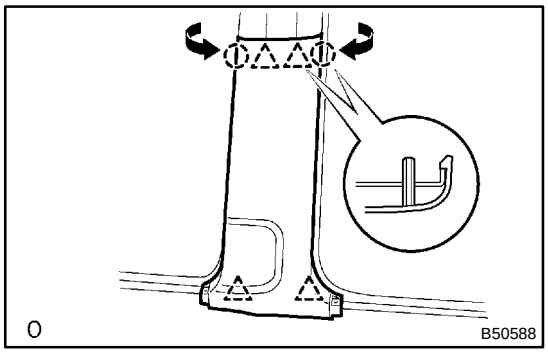
Use the same procedures for the LH side.

7. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

8. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH

9. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH

10. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH



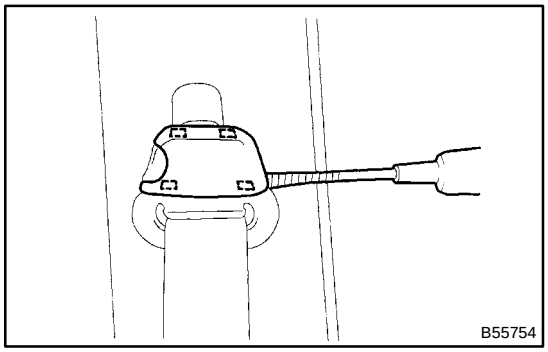
11. REMOVE CENTER PILLAR GARNISH LOWER LH

(a) Pull the center pillar lower garnish upward to remove it.

12. REMOVE CENTER PILLAR GARNISH LOWER RH

HINT:

Use the same procedures for the LH side.

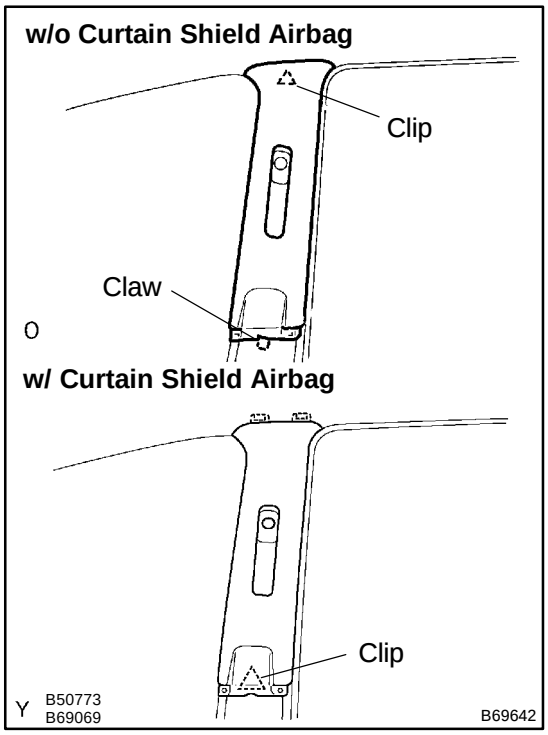


13. REMOVE CENTER PILLAR GARNISH LH

(a) Using a screwdriver, disengage the 4 claws and remove the shoulder anchor cover cap.

(b) Remove the bolt and front seat outer belt shoulder anchor.

(c) Remove the bolt and front seat outer belt floor anchor.



(d) w/o Curtain shield airbag:
Using a screwdriver, disengage the clip and claw and remove the garnish.

HINT:
Tape the screwdriver tip before use.

(e) w/ Curtain shield airbag:
Using a screwdriver, disengage the clip and remove the garnish.

HINT:
Tape the screwdriver tip before use.

14. REMOVE CENTER PILLAR GARNISH RH

HINT:
Use the same procedures for the LH side.

15. REMOVE REAR SEATBACK ASSY (See Pub. No. RM925E, page 72-26)

16. REMOVE REAR FLOOR CARPET ASSY

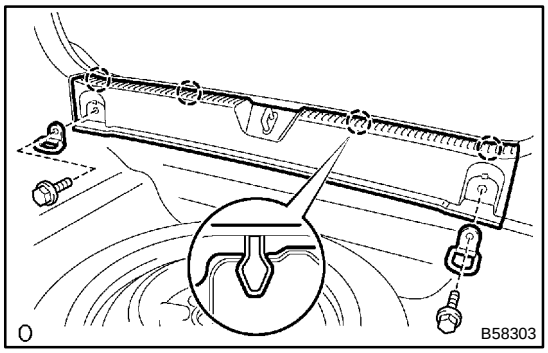
17. REMOVE PACKAGE TRAY TRIM PANEL ASSY

18. REMOVE DECK FLOOR BOX LH

(a) Remove the 2 screws and deck floor box.

19. REMOVE DECK FLOOR BOX RH

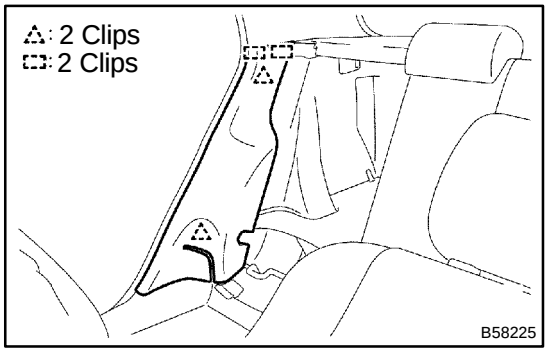
(a) Remove the 2 screws and deck floor box.



20. REMOVE DECK TRIM COVER REAR

(a) Remove the 2 bolts and 2 rope hooks.

(b) Using a screwdriver, disengage the 2 claws and remove the trim cover.



21. REMOVE REAR SEAT SIDE COVER LH

(a) Using a screwdriver, disengage the 4 clips, remove the rear seat side cover.

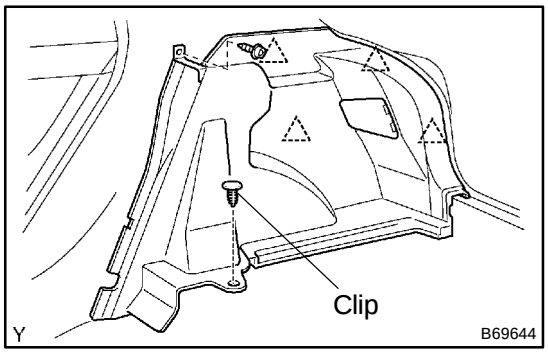
HINT:

Tape the screwdriver tip before use.

22. REMOVE REAR SEAT SIDE COVER RH

HINT:

Use the same procedures for the LH side.



23. REMOVE DECK TRIM SIDE BOARD LH

(a) Remove the screw.

(b) Using a clip remover, remove the clip indicated.

(c) Using a screwdriver, disengage the other 4 clips and remove the deck trim side panel assembly.

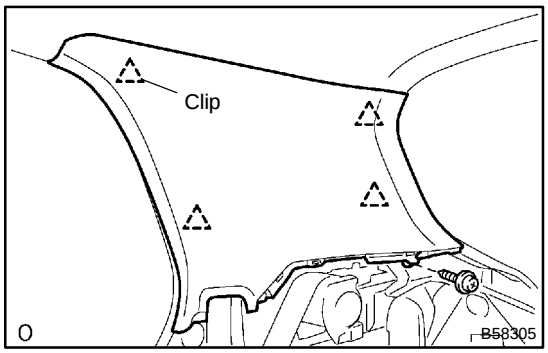
HINT:

Tape the screwdriver tip before use.

24. REMOVE DECK TRIM SIDE PANEL ASSY RH

HINT:

Use the same procedures for the LH side.



25. REMOVE ROOF SIDE GARNISH INNER LH

(a) Remove the screw.

(b) Using a screwdriver, disengage the 4 clips and remove the garnish.

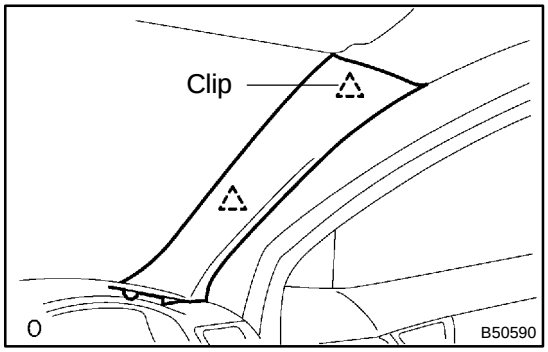
HINT:

Tape the screwdriver tip before use.

26. REMOVE ROOF SIDE GARNISH INNER RH

HINT:

Use the same procedures for the LH side.



27. REMOVE FRONT PILLAR GARNISH LH

(a) Using a screwdriver, disengage the 2 clips and remove the garnish.

HINT:

Tape the screwdriver tip before use.

28. REMOVE FRONT PILLAR GARNISH RH

HINT:

Use the same procedures for the LH side.

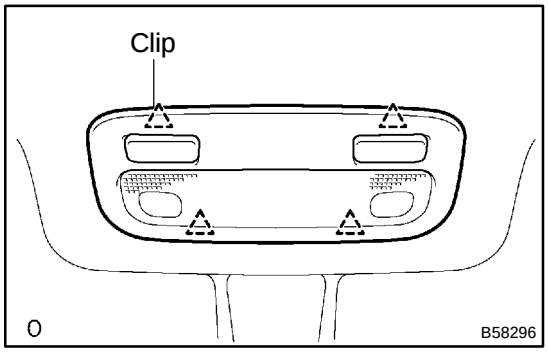
29. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70-1)

30. REMOVE LH VISOR ASSY

(a) Remove the 2 screws and visor.

31. REMOVE RH VISOR ASSY

(a) Remove the 2 screws and visor.

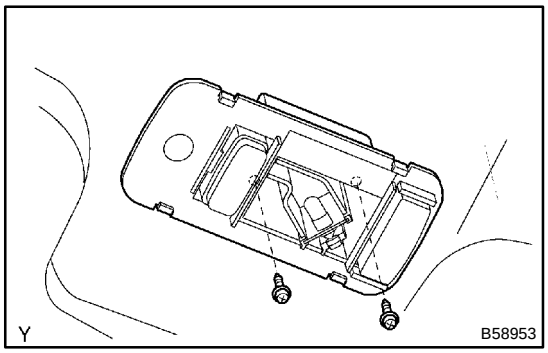


32. REMOVE MAP LAMP ASSY (W/O SLIDING ROOF)

(a) Using a screwdriver, disengage the 4 clips and remove the map lamp, and disconnect the connector.

HINT:

Tape the screwdriver tip before use.



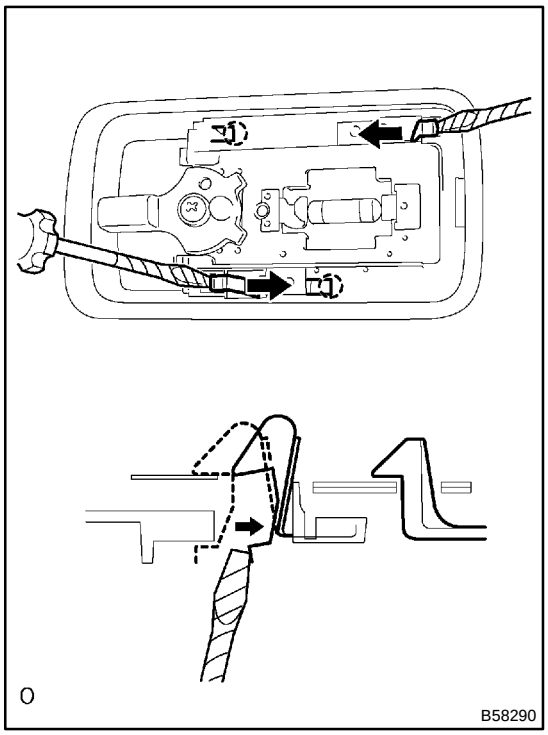
33. REMOVE MAP LAMP ASSY (W/ SLIDING ROOF)

(a) Using a screwdriver, remove the 2 screws and map lamp cover.

HINT:

Tape the screwdriver tip before use.

(b) Remove the 2 screws and map lamp, and then disconnect the connector.



34. REMOVE ROOM LAMP ASSY NO.1

(a) Using a screwdriver, remove the lens cover.

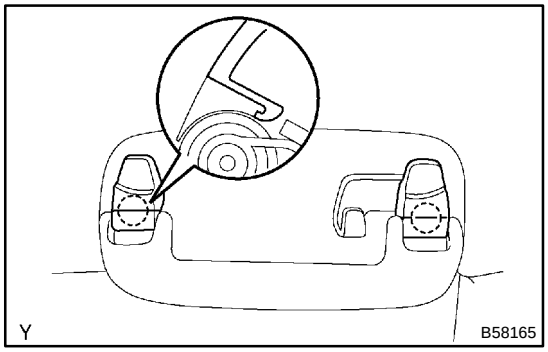
HINT:

Tape the screwdriver tip before use.

(b) Using a screwdriver, remove the room lamp, as shown in the illustration.

HINT:

Tape the screwdriver tip before use.



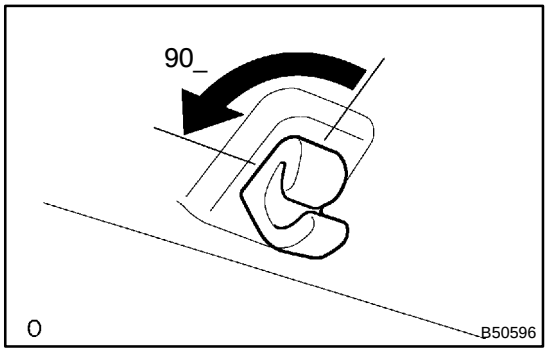
35. REMOVE ASSIST GRIP SUB-ASSY

(a) Using a screwdriver, remove the 2 assist grip covers.

HINT:

Tape the screwdriver tip before use.

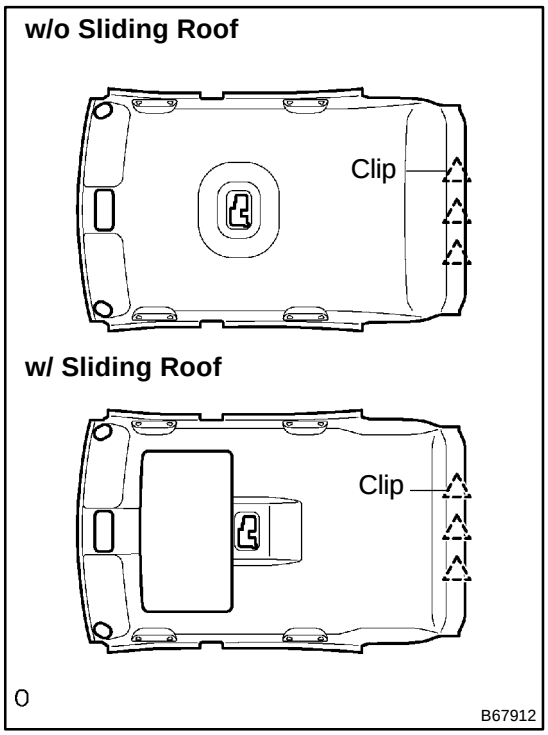
(b) Remove the 2 screws and assist grip.



36. REMOVE VISOR HOLDER

(a) Remove the holder of the visor by turning it counterclockwise.

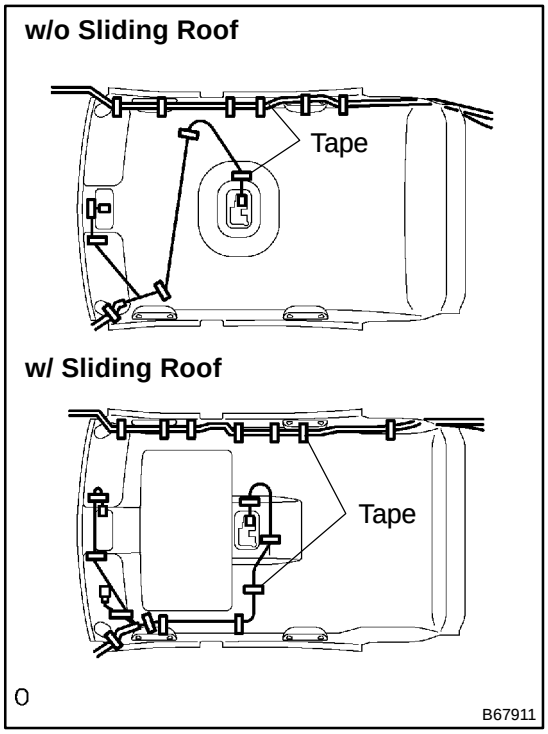
37. REMOVE SUN ROOF OPENING TRIM MOULDING (W/ SLIDING ROOF)



38. REMOVE ROOF HEADLINING ASSY

(a) Using a clip remover, disengage the 3 clips and remove the headlining.

(b) w/o Curtain shield airbag:
Using a screwdriver, disengage the claws and remove the 4 side rail spacers.



39. INSTALL ROOF HEADLINING ASSY

(a) Align the markings and install the wire harness with tape.

HINT:

Be careful that dirt or foreign objects do not stick to the adhesive part when peeling off the double-sided tape.

(b) Attach the roof wire harness across the adhesive part

NOTICE:

Attach the roof wire harness should be attached securely.

(c) Install the headlining with the 3 clips.

A

Page

ABBREVIATIONS USED IN THIS MANUAL (TERMS) 01-35
AIR BAG SENSOR REAR LH (EXCEPT 3-DOOR HATCHBACK - Jan., 2003) 60-32
AIR BAG SENSOR REAR LH (3-DOOR HATCHBACK - Jan., 2003) 60-30

B

B0100/13 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-17
B0101/14 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-21
B0102/11 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-25
B0103/12 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-29
B0110/43 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-33
B0111/44 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-36
B0112/41 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-39
B0113/42 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-42
B0115/47 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-45
B0116/48 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-48
B0117/45 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-51
B0118/46 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-54
B0130/63 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-57
B0131/64 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-60
B0132/61 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-63
B0133/62 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-66
B0135/73 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-69
B0136/74 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-72
B0137/71 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-75
B0138/72 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-78
B1100/31 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-81
B1140/32 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-84
B1141/33 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-91
B1154/38 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-98
B1155/39 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-102
B1156/15 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-106
B1158/16 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-111
B1160/83 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-116

Page

B1161/84 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-119
B1162/81 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-122
B1163/82 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-125
B1165/87 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-128
B1166/88 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-131
B1167/85 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-134
B1168/86 (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-137

C

COMPONENTS (AIR BAG SENSOR REAR LH (EXCEPT 3-DOOR HATCHBACK - Jan., 2003)) . . . 60-32
COMPONENTS (AIR BAG SENSOR REAR LH (3-DOOR HATCHBACK - Jan., 2003)) 60-30
COMPONENTS (CURTAIN SHIELD AIR BAG ASSY LH (Jan., 2003)) 60-13
COMPONENTS (FRONT BUMPER (HATCHBACK MODELS)) 76-4
COMPONENTS (FRONT BUMPER (SEDAN/WAGON MODELS)) 76-1
COMPONENTS (REAR SEAT (WAGON MODELS)) 72-1
COMPONENTS (REAR SEAT BELT (WAGON MODELS)) 61-1
COMPONENTS (ROOF HEADLINING (SEDAN MODELS)) 76-7
COMPONENTS (ROOF HEADLINING (WAGON MODELS)) 76-15
COMPONENTS (ROOF HEADLINING (3-DOOR HATCHBACK MODELS)) 76-23
COMPONENTS (ROOF HEADLINING (5-DOOR HATCHBACK MODELS)) 76-31
CURTAIN SHIELD AIR BAG ASSY LH (Jan., 2003) 60-13
CUSTOMER PROBLEM ANALYSIS CHECK (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-3

D

DIAGNOSTIC TROUBLE CODE CHART (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)) 05-10
DISPOSAL (CURTAIN SHIELD AIR BAG ASSY LH (Jan., 2003)) 60-24

E

ELECTRONIC CIRCUIT INSPECTION PROCEDURE (HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS) 01-30
EXTERIOR/INTERIOR TRIM 02-4
EXTERIOR/INTERIOR TRIM 03-7

F

FRONT BUMPER (HATCHBACK MODELS) 76-4
FRONT BUMPER (SEDAN/WAGON MODELS) 76-1

G

	Page
GENERAL INFORMATION (HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS)	01–19
GENERAL INFORMATION (HOW TO USE THIS MANUAL)	01–1
GLOSSARY OF SAE AND TOYOTA TERMS (TERMS)	01–40

H

HOW TO DETERMINE BOLT STRENGTH (STANDARD BOLT)	03–1
HOW TO DETERMINE NUT STRENGTH (STANDARD BOLT)	03–3
HOW TO PROCEED WITH TROUBLESHOOTING (HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS)	01–20
HOW TO PROCEED WITH TROUBLESHOOTING (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–1
HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS	01–19
HOW TO USE THIS MANUAL	01–1

I

IDENTIFICATION INFORMATION	01–4
INNER REAR VIEW MIRROR ASSY	70–1

L

LOCATION (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–13

O

ON–VEHICLE INSPECTION (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	60–9

P

PRE–CHECK (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–4
PRECAUTION (REPAIR INSTRUCTION)	01–5
PRECAUTION (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	60–1
PREPARATION (EXTERIOR/INTERIOR TRIM)	02–4
PREPARATION (SEAT BELT)	02–2
PREPARATION (SEAT)	02–3
PREPARATION (SUPPLEMENTAL RESTRAINT SYSTEM)	02–1
PROBLEM SYMPTOMS TABLE (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–16

R

REAR SEAT (WAGON MODELS)	72–1
REAR SEAT BELT (WAGON MODELS)	61–1
REPAIR INSTRUCTION	01–5
REPLACEMENT (AIR BAG SENSOR REAR LH (EXCEPT 3–DOOR HATCHBACK – Jan., 2003))	60–33
REPLACEMENT (AIR BAG SENSOR REAR LH (3–DOOR HATCHBACK – Jan., 2003))	60–31
REPLACEMENT (CURTAIN SHIELD AIR BAG ASSY LH (Jan., 2003))	60–17
REPLACEMENT (FRONT BUMPER (HATCHBACK MODELS))	76–5
REPLACEMENT (FRONT BUMPER (SEDAN/WAGON MODELS))	76–2
REPLACEMENT (INNER REAR VIEW MIRROR ASSY)	70–1
REPLACEMENT (REAR SEAT (WAGON MODELS))	72–3
REPLACEMENT (REAR SEAT BELT (WAGON MODELS))	61–2
REPLACEMENT (ROOF HEADLINING (SEDAN MODELS))	76–10
REPLACEMENT (ROOF HEADLINING (WAGON MODELS))	76–18
REPLACEMENT (ROOF HEADLINING (3–DOOR HATCHBACK MODELS))	76–26
REPLACEMENT (ROOF HEADLINING (5–DOOR HATCHBACK MODELS))	76–34
ROOF HEADLINING (SEDAN MODELS)	76–7
ROOF HEADLINING (WAGON MODELS)	76–15
ROOF HEADLINING (3–DOOR HATCHBACK MODELS)	76–23
ROOF HEADLINING (5–DOOR HATCHBACK MODELS)	76–31

S

SEAT	02–3
SEAT	03–6
SEAT BELT	02–2
SEAT BELT	03–5
SOURCE VOLTAGE DROP (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–140
SPECIFIED TORQUE FOR STANDARD BOLTS (STANDARD BOLT)	03–2
SRS WARNING LIGHT CIRCUIT MALFUNCTION (ALWAYS LIGHT UP, WHEN IGNITION SWITCH IS LOCK POSITION.) (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–143
SRS WARNING LIGHT CIRCUIT MALFUNCTION (DOES NOT LIGHT UP, WHEN IGNITION SWITCH IS TURNED TO ACC OR ON) (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–146
STANDARD BOLT	03–1
SUPPLEMENTAL RESTRAINT SYSTEM	02–1
SUPPLEMENTAL RESTRAINT SYSTEM	03–4
SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)	05–1
SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003)	60–1

T

TERMINALS OF ECU (SUPPLEMENTAL RESTRAINT SYSTEM (Jan., 2003))	05–14
TERMS	01–35
TORQUE SPECIFICATION (EXTERIOR/INTERIOR TRIM)	03–7
TORQUE SPECIFICATION (SEAT BELT)	03–5
TORQUE SPECIFICATION (SEAT)	03–6
TORQUE SPECIFICATION (SUPPLEMENTAL RESTRAINT SYSTEM)	03–4

V

	Page
VEHICLE IDENTIFICATION AND SERIAL NUMBERS (IDENTIFICATION INFORMATION)	01–4
VEHICLE LIFT AND SUPPORT LOCATIONS (REPAIR INSTRUCTION)	01–17