

GROUP 52B

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

⚠ WARNING

- Carefully read and observe the information in the SRS SERVICE PRECAUTIONS prior to any service.
- For information concerning diagnosis or maintenance, always observe the procedures in the SRS Diagnosis or the SRS Maintenance sections, respectively.
- If any SRS components are removed or replaced in connection with any service procedures, be sure to follow the procedures in the INDIVIDUAL COMPONENT SERVICE section for the compartments involved.
- If you have any questions about the SRS, please contact the MMNA Tech Line.

GENERAL DESCRIPTION

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⚠ WARNING

Extreme care must be used when servicing the SRS to avoid injury to the service personnel (by inadvertent deployment of the air bags) or the driver (by rendering the SRS inoperative).

The Supplemental Restraint System (SRS) and seat belt with pre-tensioner is designed to supplement the driver's and front passenger's seat belts to help reduce the risk or severity of injury to the driver and front passenger by activating and deploying both front air bags in certain frontal collisions.

The SRS consist of four air bag modules, SRS air bag control unit (SRS-ECU), two side impact sensors, SRS warning light, and clock spring. Air bags are located in the center of the steering wheel and above the glove box. Each air bag is made up of a

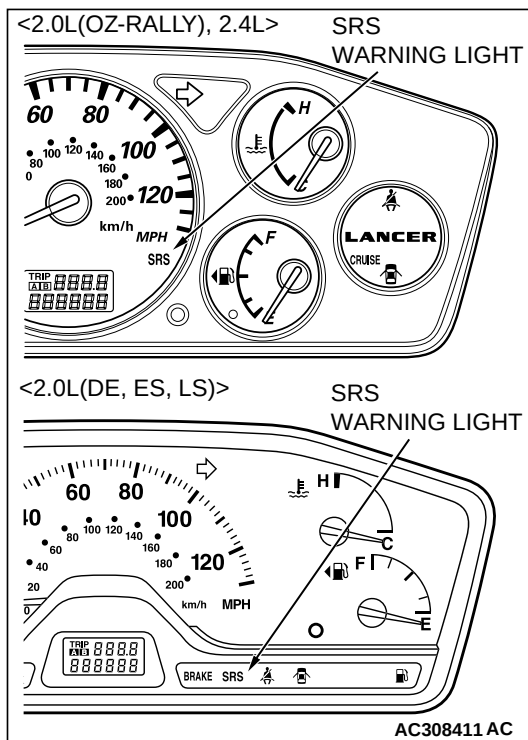
folded air bag and an inflator unit. Side-airbags located inside the front seatback assemblies. The SRS-ECU under the floor console monitors the system and has a safing G-sensor and an analog G-sensor. The warning light on the instrument panel indicates the operational status of the SRS. The clock spring is installed in the steering column. The seat belt pre-tensioner is built into the driver's and passenger's front seat belt retractor. Only authorized service personnel should do work on or around the SRS components. Those service personnel should read this manual carefully before starting any such work.

ON-BOARD DIAGNOSTIC/SRS WARNING LIGHT FUNCTION

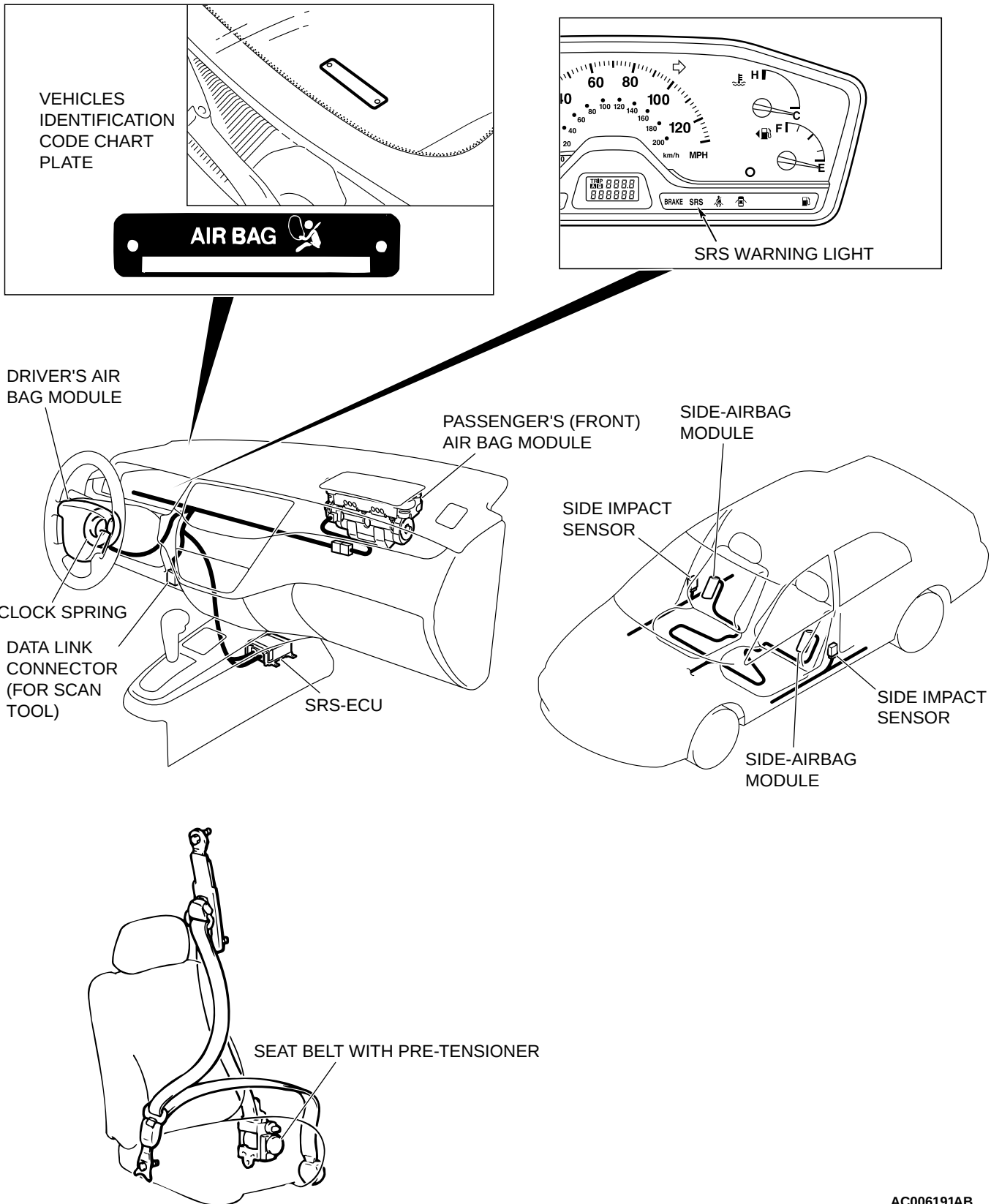
The diagnosis unit monitors the SRS system and stores data concerning any detected faults in the system. When the ignition switch is in "ON" or "START" position, the SRS warning light should illuminate for about seven seconds and then turn "OFF". That indicates that the SRS system is in operational order. If the SRS warning light does any of the following, immediate inspection by an authorized dealer is needed.

1. The SRS warning light does not illuminate as described above.
2. The SRS warning light stays on for more than seven seconds.
3. The SRS warning light illuminates while driving.

If a vehicle's SRS warning light is in any of these three conditions when brought in for inspection, the SRS system must be inspected, diagnosed and serviced in accordance with this manual.



CONSTRUCTION DIAGRAM

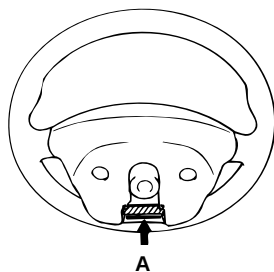
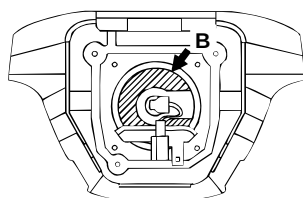
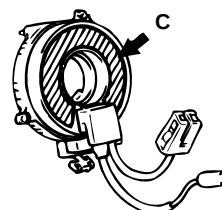
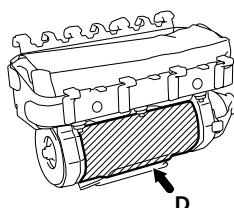
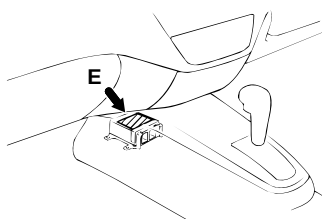
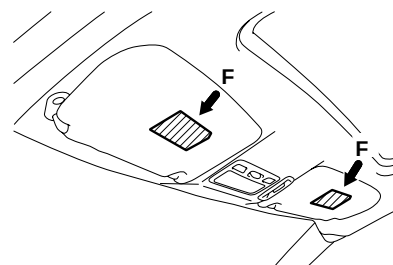
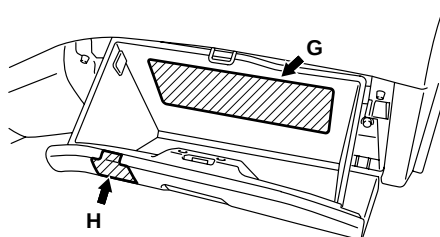
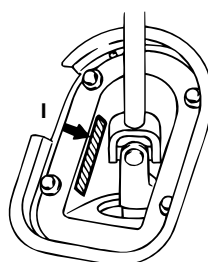
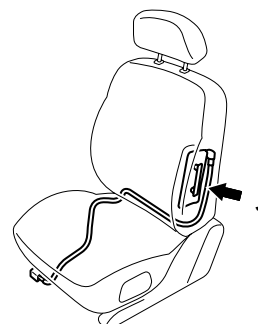
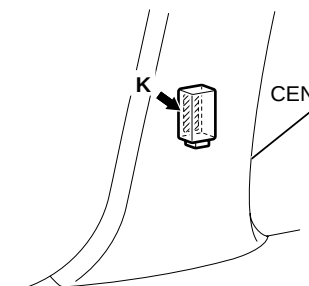
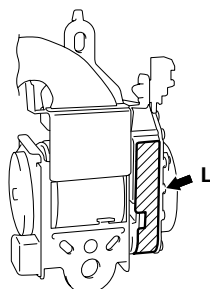


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NOTE: This construction diagram shows the general view of the SRS components. For details, refer to "Schematic", (P.52B-7) "Configuration Diagrams" (P.52B-11) and "Circuit Diagram" (P.52B-12).

WARNING/CAUTION LABELS

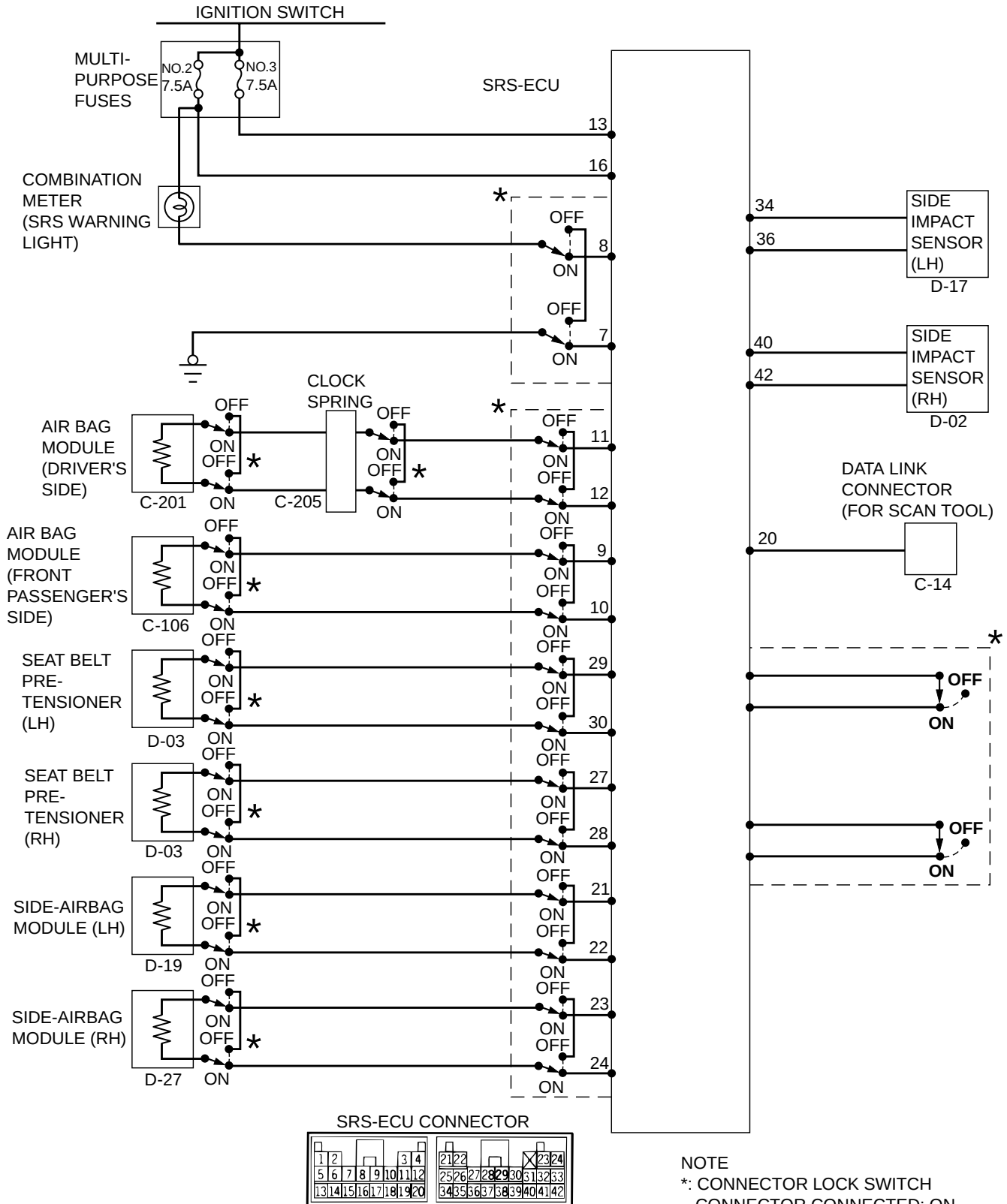
A number of caution labels related to the SRS are found in the vehicle, as shown in the following illustration. Follow label instructions when servicing SRS. The label H is not to be removed except by owner. If the other labels are dirty or damaged, replace them.

STEERING WHEEL**DRIVER'S AIR BAG MODULE****CLOCK SPRING****PASSENGER'S (FRONT) AIR BAG MODULE****SRS-ECU****SUN VISOR****GLOVE BOX****STEERING JOINT COVER****SIDE-AIRBAG MODULE (DRIVER'S AND FRONT PASSENGER'S SEAT)****SIDE IMPACT SENSORS (RH AND LH)****CENTER PILLAR****SEAT BELT WITH PRE-TENSIONER**

LABEL CONTENTS	
A.	WARNING: SRS BEFORE REPLACING WHEEL, READ SERVICE MANUAL. THIS AIR BAG MODULE CANNOT BE REPAIRED. DO NOT DISASSEMBLE OR TAMPER.
B.	DANGER FLAMMABLE MATERIAL TO PREVENT PERSONAL INJURY, DO NOT DISMANTLE, INCINERATE, OR BRING INTO CONTACT WITH ELECTRICITY STORE BELOW 200 °F (93 °C).
C.	CAUTION: SRS CLOCK SPRING THIS IS NOT A REPAIRABLE PART. IF DEFECTIVE, REPLACE ENTIRE UNIT ACCORDING TO THE SERVICE MANUAL INSTRUCTIONS. TO RE-CENTER: ROTATE CLOCKWISE UNTIL TIGHT. THEN ROTATE IN OPPOSITE DIRECTION ROUGHLY 3 3/4 TURNS AND ALIGN ARROWS >><<.
D, J.	WARNING FLAMMABLE/EXPLOSIVE SRS AIR BAG MODULE TO AVOID SERIOUS INJURY: • DO NOT REPAIR, DISASSEMBLE OR TAMPER. • AVOID CONTACT WITH FLAME OR ELECTRICITY. • DO NO DIAGNOSIS/USE NO TEST EQUIPMENT OR PROBES. • STORE BELOW 200°F (93°C). • BEFORE DOING ANY WORK INVOLVING MODULE, READ SERVICE MANUAL FOR IMPORTANT FURTHER DATA.
E, K.	CAUTION: DO NOT DISASSEMBLE OR DROP. IF DEFECT REFER TO SERVICE MANUAL.
F.	 V0037AA WARNING DEATH or SERIOUS INJURY can occur • Children 12 and under can be killed by the air bag. • The BACK SEAT is the SAFEST place for children. • NEVER put a rear-facing child seat in the front. • Sit as far back as possible from the air bag. • ALWAYS use SEAT BELTS and CHILD RESTRAINS.

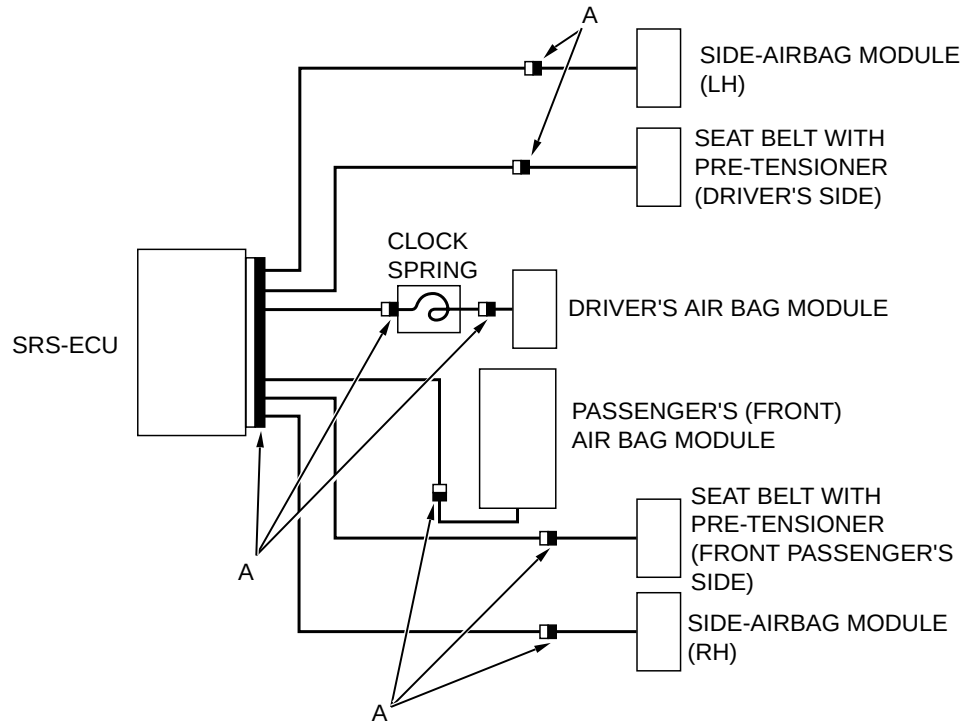
LABEL CONTENTS	
G.	AIR BAG SYSTEM INFORMATION THIS VEHICLE HAS AN AIR BAG SYSTEM WHICH WILL SUPPLEMENT THE SEAT BELT IN CERTAIN FRONTAL COLLISIONS. THE AIR BAG IS NOT A SUBSTITUTE FOR THE SEAT BELT IN ANY TYPE OF COLLISION. THE DRIVER AND ALL OTHER OCCUPANTS SHOULD WEAR SEAT BELTS AT ALL TIME. WARNING! IF THE "SRS" WARNING LIGHT DOES NOT ILLUMINATE FOR SEVERAL SECONDS WHEN IGNITION KEY IS TURNED TO "ON" OR THE ENGINE IS STARTED, OR IF THE WARNING LIGHT STAYS ON WHILE DRIVING, TAKE THE VEHICLE TO YOUR NEAREST AUTHORIZED DEALER IMMEDIATELY. ALSO, IF VEHICLE'S FRONT END IS DAMAGED OR IF THE AIR BAG HAS DEPLOYED, TAKE THE VEHICLE FOR SERVICE IMMEDIATELY. THE AIR BAG SYSTEM MUST BE INSPECTED BY AN AUTHORIZED DEALER TEN YEARS AFTER THE VEHICLE MANUFACTURE DATE SHOWN ON THE CERTIFICATION LABEL LOCATED ON THE LEFT FRONT DOOR-LATCH POST OR DOOR FRAME. READ THE "SRS" SECTION OF YOUR OWNER'S MANUAL BEFORE DRIVING FOR IMPORTANT INFORMATION ABOUT OPERATION AND SERVICE OF THE AIR BAG SYSTEM. WHEN YOU ARE GOING TO DISCARD YOUR GAS GENERATOR OR VEHICLE, PLEASE SEE YOUR DEALER.
H.	WARNING CHILDREN CAN BE KILLED OR INJURED BY PASSENGER AIR BAG. THE BACK SEAT IS THE SAFEST PLACE FOR CHILDREN 12 AND UNDER. MAKE SURE ALL CHILDREN USE SEAT BELTS OR CHILD SEAT. NOT TO BE REMOVED EXCEPT BY OWNER.
I.	CAUTION: SRS FIX STRG. WHEEL AT TIRES STRAIGHT AHEAD BEFORE GEAR BOX REMOVAL. OTHERWISE, MAY DAMAGE SRS CLOCK SPRING MARKING SRS SYSTEM IN OPERATIVE. RISKING SERIOUS DRIVER INJURY.
L	DANGER: BELT PRETENSIONER • DO NOT DISASSEMBLE OR IMPACT. • REFER TO SERVICE MANUAL FOR INSTRUCTIONS, HANDLING, STORAGE AND DISPOSAL PROCEDURES.

SCHEMATIC



SRS air bag special connector

To enhance the system reliability, a connector lock switch is integrated in the SRS-ECU connector, the air bag module connectors, the clock spring connector, the seat belt pretensioner connectors (black connector "A" shown in the illustration below).



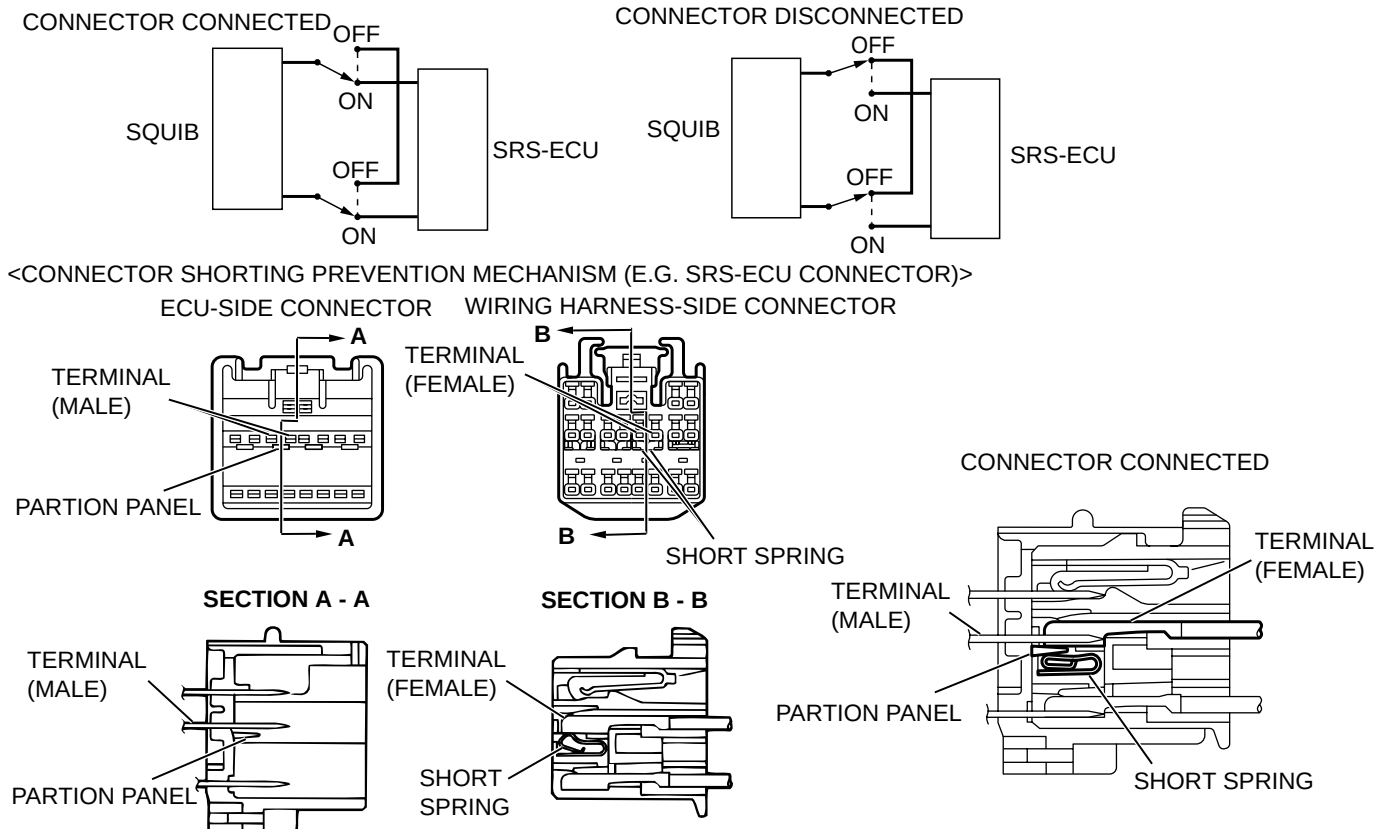
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SQUIB CIRCUIT CONNECTOR LOCK SWITCH

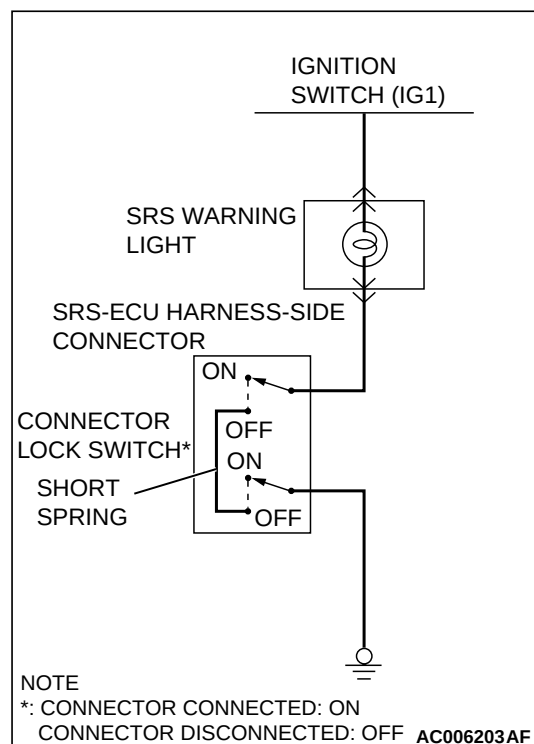
The switch is a mechanism that shorts the power supply terminal to the ground terminal automatically in the air bag squib circuit when the connector is disconnected. A "short" spring is integrated inside the connector. This spring prevents static electricity from flowing to the squib by shorting the power supply terminal to the ground terminal (i.e. there is no potential difference between the two terminals).

⚠ CAUTION

When the connector is disconnected, there will be short circuit between the terminals. This is not a fault.

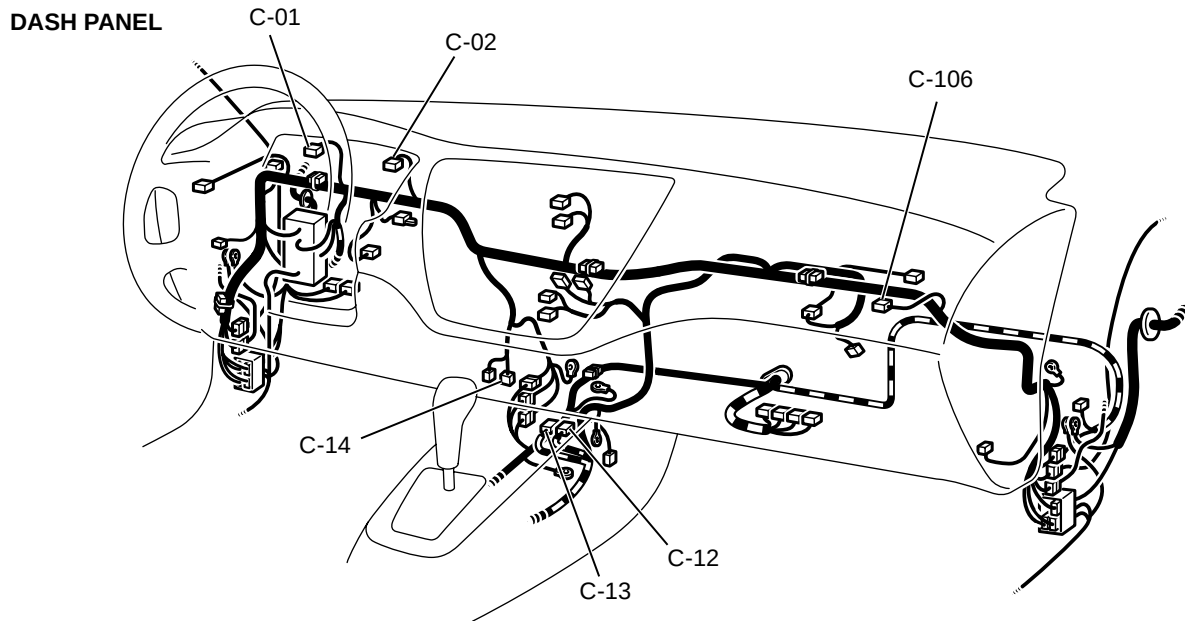


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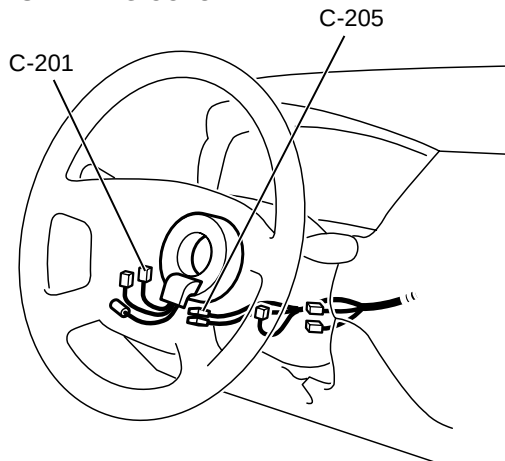
**WARNING LIGHT CIRCUIT CONNECTOR LOCK SWITCH**

The switch is a mechanism that shorts the power supply terminal to the ground terminal automatically in the warning light circuit when the connector is disconnected. Its structure is similar to the squib circuit connector shorting mechanism.

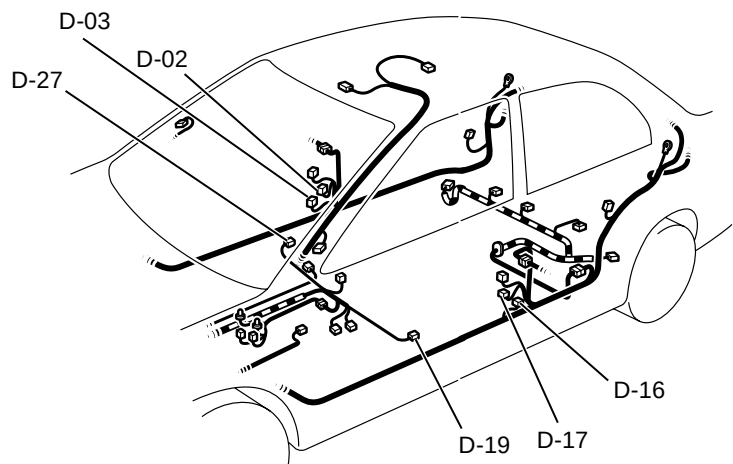
CONFIGURATION DIAGRAMS



STEERING COLUMN



FLOOR AND ROOF



C-01	COMBINATION METER (FOR SRS WARNING LIGHT)
C-02	COMBINATION METER (FOR SRS WARNING LIGHT)
C-12	SRS-ECU
C-13	SRS-ECU
C-14	DATA LINK CONNECTOR (FOR SCAN TOOL)
C-106	AIR BAG MODULE (FRONT PASSENGER'S SIDE)
C-205	CLOCK SPRING
C-201	AIR BAG MODULE (DRIVER'S SIDE)
D-02	SIDE IMPACT SENSOR (RH) <VEHICLES WITH SRS SIDE-AIRBAG>

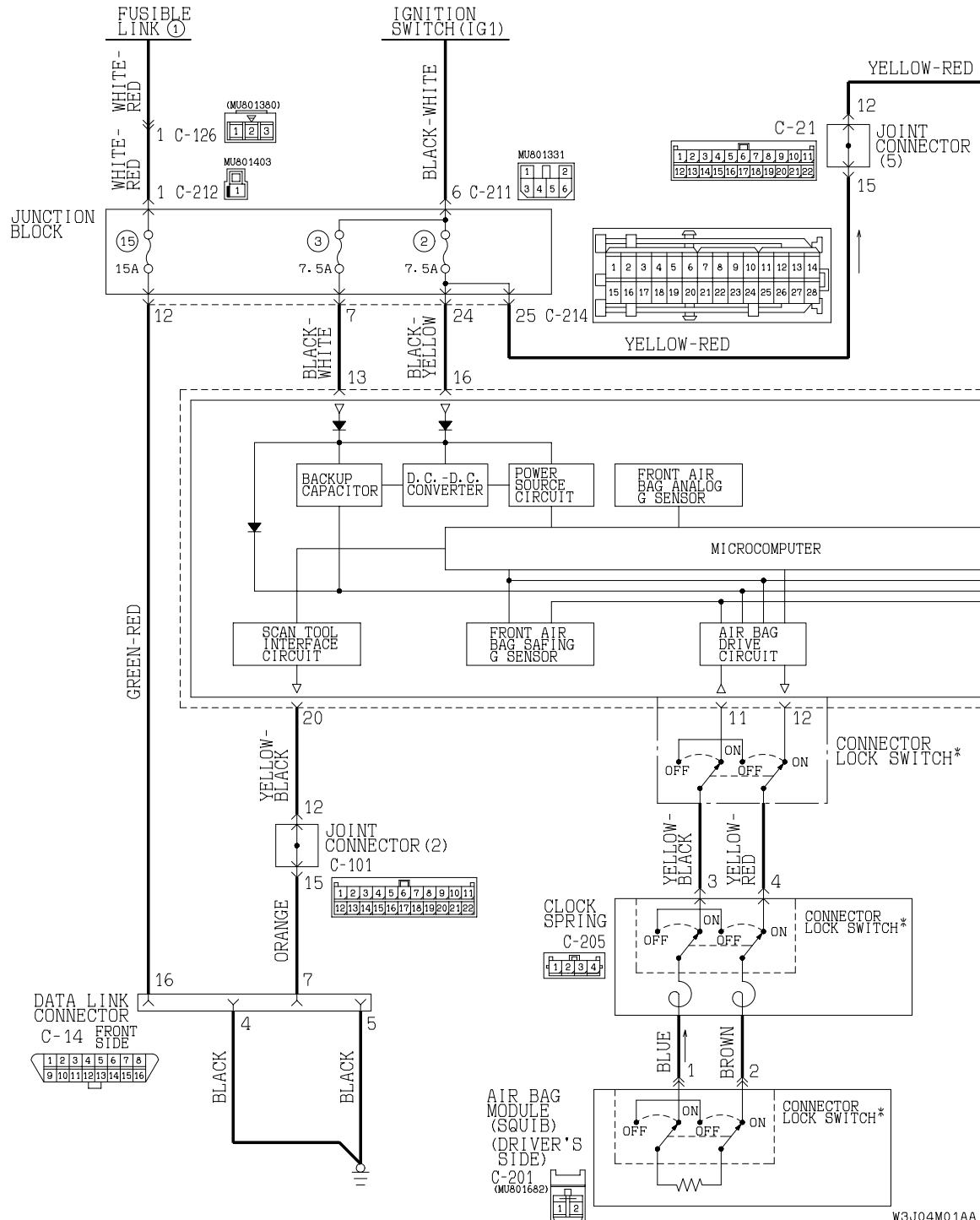
D-03	SEAT BELT PRE-TENSIONER (RH)
D-16	SEAT BELT PRE-TENSIONER (LH)
D-17	SIDE IMPACT SENSOR (LH) <VEHICLES WITH SRS SIDE-AIRBAG>
D-19	SIDE-AIRBAG MODULE (LH) <VEHICLES WITH SRS SIDE-AIRBAG>
D-27	SIDE-AIRBAG MODULE (RH) <VEHICLES WITH SRS SIDE-AIRBAG>

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CIRCUIT DIAGRAM

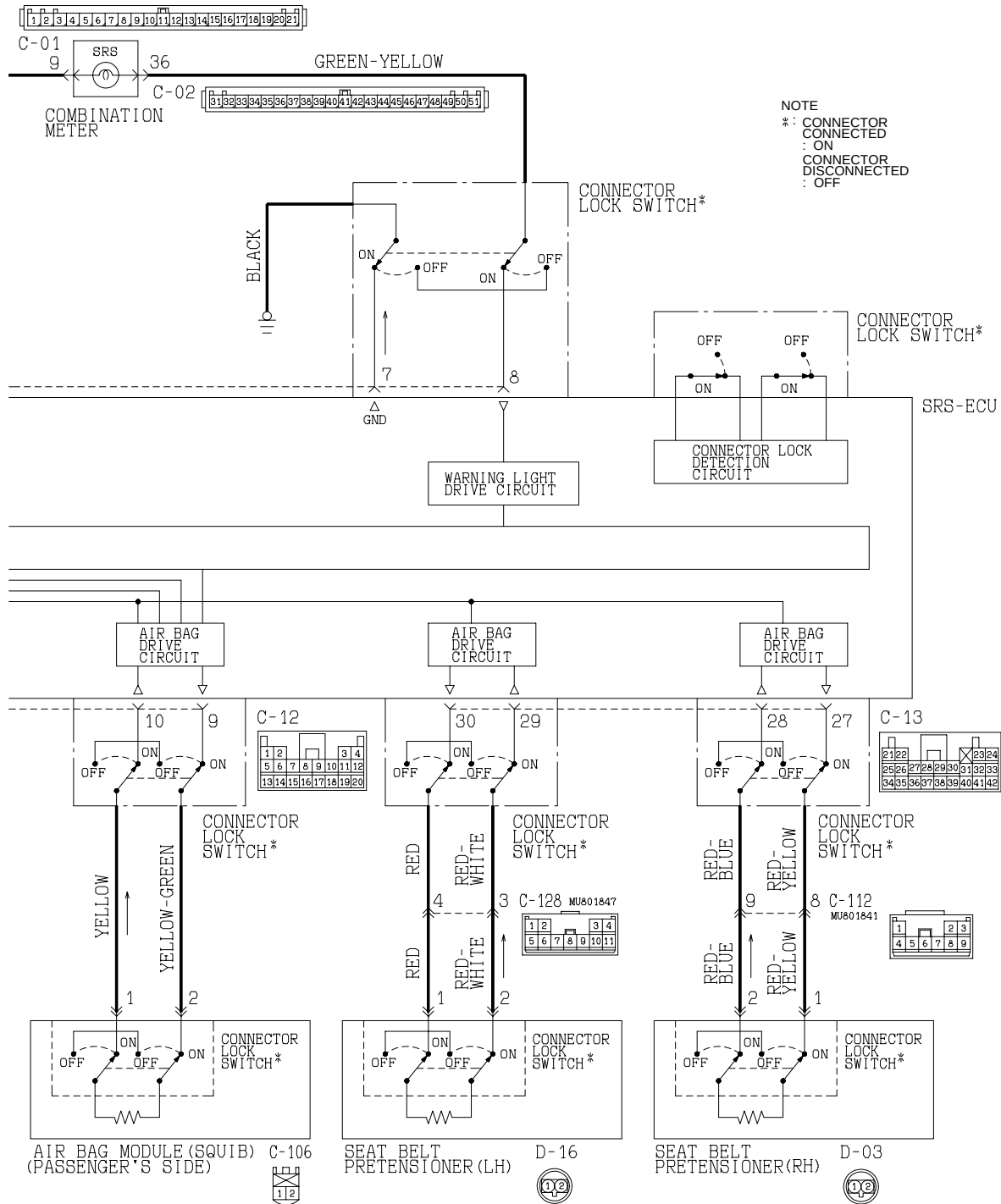
⚠ WARNING

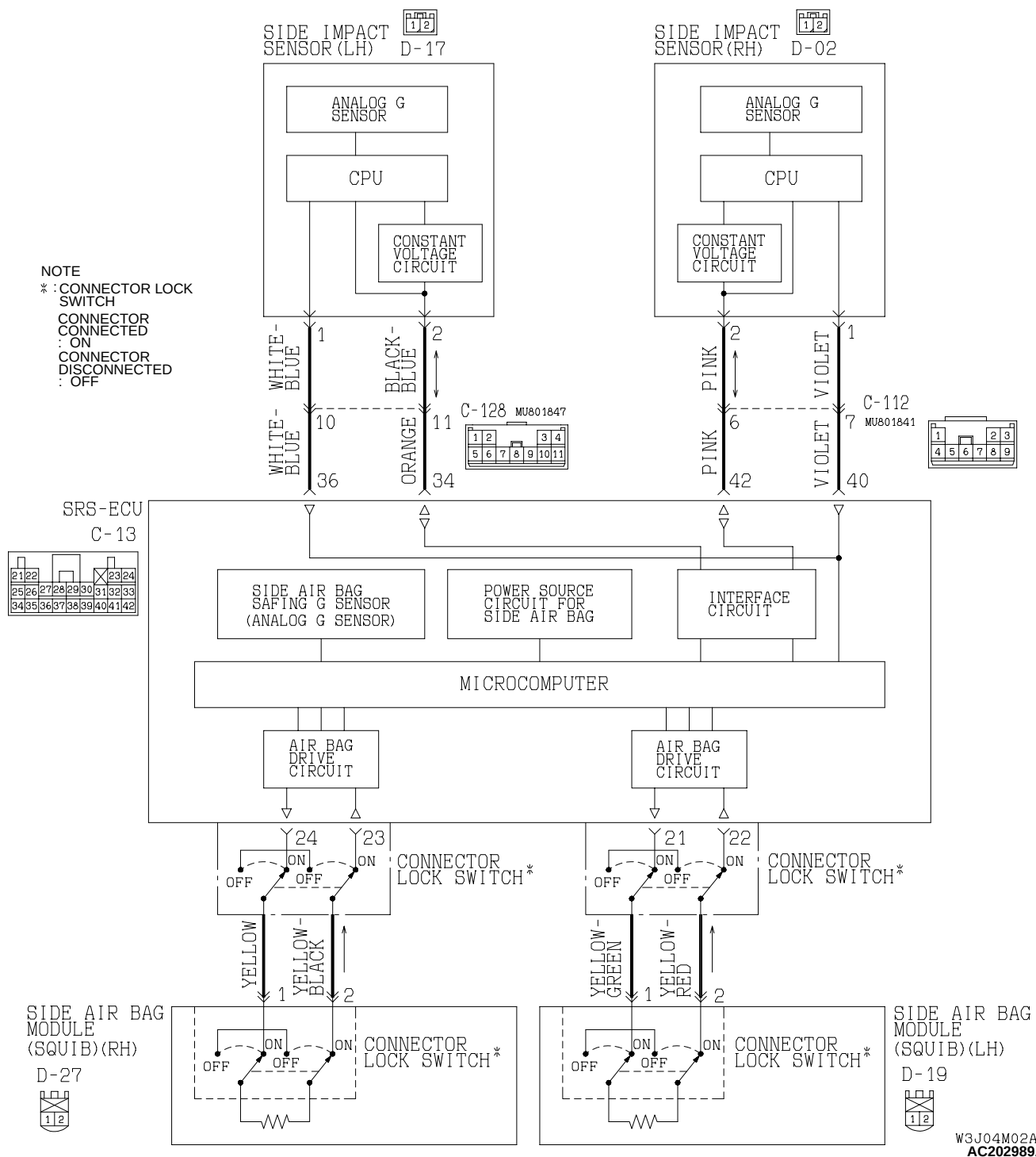
- **Do not repair, splice, or modify the SRS wiring (except for specific repairs to the instrument panel wiring harness and the floor wiring harness shown on [P.52B-16](#)): replace the wiring if necessary, after reading and following all precautions and procedures in this manual.**
- **Do not use an analog ohmmeter to check the SRS wiring or components; use only the special tools (refer to [P.52B-195](#)) and a digital multi-meter (refer to [P.52B-196](#)).**



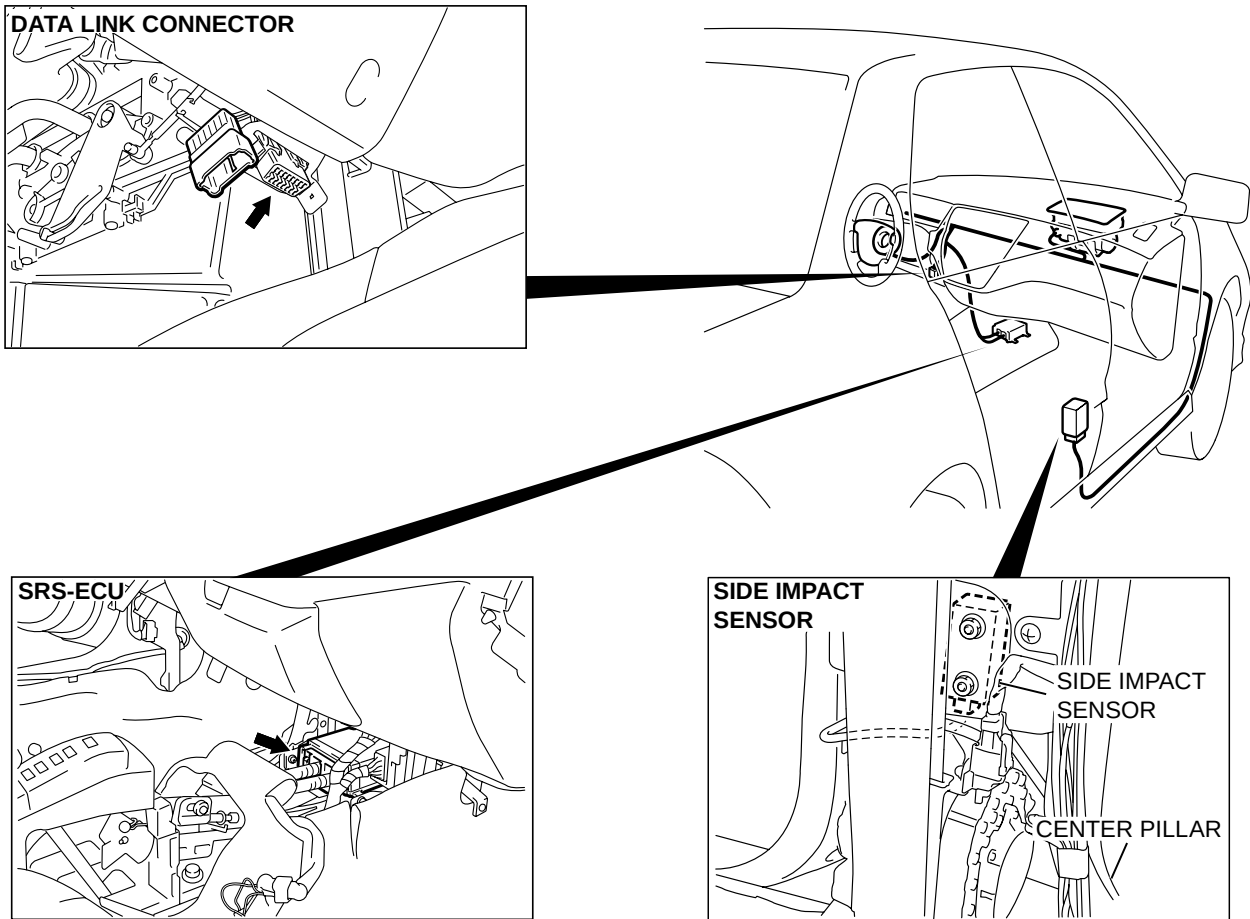
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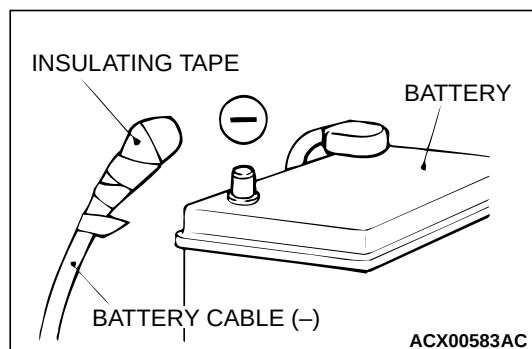
COMPONENT LOCATION



NOTE: The illustration above shows the side impact sensor (RH). The position of the side impact sensor (LH) is symmetrical to this.

SERVICE PRECAUTIONS

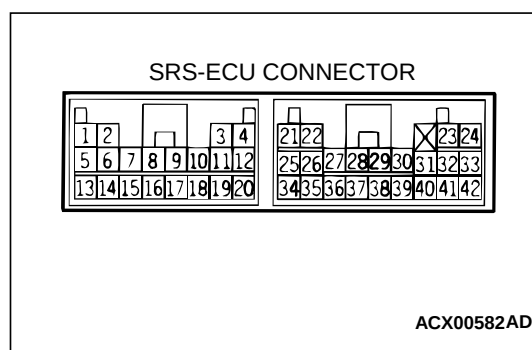
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**⚠ DANGER**

- *In order to avoid injury to yourself or others from accidental deployment of the air bag during servicing, read and carefully follow all the precautions and procedures described in this manual.*
- *After disconnecting the battery cable, wait 60 seconds or more before proceeding with the following work. The SRS system is designed to retain enough voltage to deploy the air bag for a short time even after the battery has been disconnected, so serious injury may result from unintended air bag deployment if work is done on the SRS system immediately after the battery cables are disconnected.*

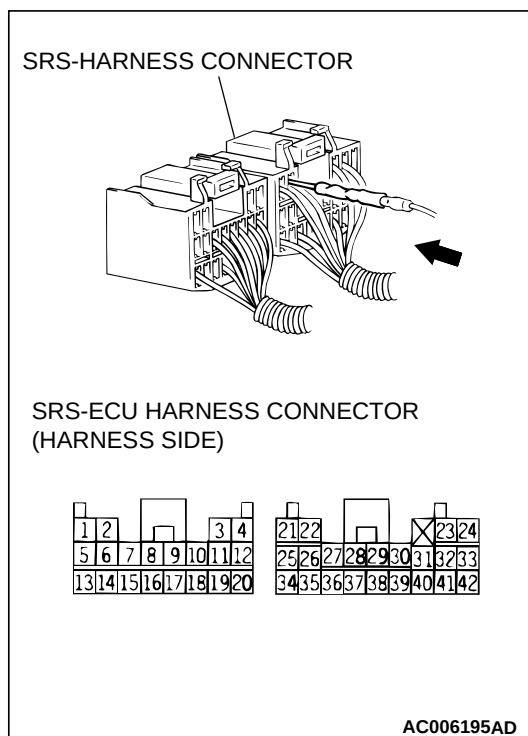
⚠ WARNING

- *Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.*
- *Do not use any electrical test equipment on or near the SRS components, except those specified on [P.52B-196](#).*
- *Never Attempt to Repair the Following Components: SRS-ECU, Clock Spring, Air Bag Module, Side Impact Sensor, Seat Belt with Pre-tensioner. If any of these components are diagnosed as faulty, they should only be replaced, in accordance with the **INDIVIDUAL COMPONENT SERVICE** procedures in this manual, starting on [P.52B-201](#).*
- *Do not attempt to repair the wiring harness connectors of the SRS. If any of the connectors are diagnosed as faulty, replace the wiring harness. If the wires are diagnosed as faulty, replace or repair the wiring harness according to the following table.*



SRS-ECU TERMINAL NO.	DESTINATION OF HARNESS	CORRECTIVE ACTION
7	Instrument panel wiring harness→ Ground	Correct or replace the body wiring harness.
8	Instrument panel wiring harness → SRS warning light	Correct or replace each wiring harness.
9, 10	Instrument panel wiring harness → Air bag module (Front passenger's side)	Correct or replace the body wiring harness.
11, 12	Instrument panel wiring harness → Clock spring → Air bag module (Driver's side)	Correct or replace each wiring harness. Replace the clock spring.
13	Instrument panel wiring harness → Junction block (fuse No.3)	Correct or replace the body wiring harness.
16	Instrument panel wiring harness → Junction block (fuse No.2)	Correct or replace the body wiring harness.
20	Instrument panel wiring harness → Data link connector	Correct or replace the body wiring harness.
21*, 22*	Floor wiring harness (LH) → Side-airbag module (LH)	Correct or replace the body wiring harness.
23*, 24*	Floor wiring harness (RH) → Side-airbag module (RH)	Correct or replace the body wiring harness.
27, 28	Floor wiring harness (RH) → Seat belt pre-tensioner (RH)	Connector or replace each wiring harness.
29, 30	Floor wiring harness (LH) → Seat belt pre-tensioner (LH)	Connector or replace each wiring harness.
34*, 36*	Floor wiring harness (LH) → Side impact sensor (LH)	Correct or replace each wiring harness.
40*, 42*	Floor wiring harness (RH) → Side impact sensor (RH)	Correct or replace each wiring harness.

NOTE: *Vehicles with side-airbags



⚠ WARNING

- **Inspection of the SRS-ECU connector harness should be carried out by the following procedure. Insert the backprobing tool into connector from harness side (rear side), and connect the tester to backprobing tool. If any tool other than backprobing tool is used, it may cause damage to the harness and other components. Furthermore, measurement should not be carried out by touching the backprobing tool directly against the terminals from the front of the connector. The terminals are plated to increase their conductivity, so if they are touched directly by the backprobing tool, the plating may break, which will decrease reliability.**
- **The SRS components and seat belt with pre-tensioner should not be subjected to heat, so removed the SRS-ECU, driver's and front passenger's air bag modules, clock spring, side-airbag module, and seat belt pre-tensioner before drying or baking the vehicle after painting.**
 - **SRS-ECU, air bag module, clock spring: 93 °C (200 °F) or more**
 - **Seat belt with pre-tensioner 90 °C (194 °F) or more**
- **After servicing the SRS system, check the warning light operation to make sure that the system functions properly. (Refer to [P.52B-2](#).)**
- **Make certain that the ignition switch is "LOCK"(OFF) position when the scan tool is connected or disconnected.**
- **If you have any questions about the SRS system, please contact the MMNA Tech Line.**

SRS AIR BAG DIAGNOSIS

INTRODUCTION TO DIAGNOSIS

The SRS system is controlled by the SRS-ECU. The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors, front air bag analog G-sensor and front air bag safing G-sensor and side-airbag safing G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the safing G-sensor is on, the SRS air bag will inflate. The SRS warning light in the combination meter alerts a malfunction of the SRS system. If the following symptoms occur even when the vehicle has not been in a collision, there may be a malfunction in the SRS system.

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- The SRS warning light does not go off within approximately seven seconds after the ignition switch has been turned "ON".
- The SRS warning light does not illuminate when the ignition switch is turned "ON".

Refer to the Post-collision Diagnosis when inspecting and servicing the vehicle that has been in a collision (Refer to [P.52B-197](#)).

TROUBLESHOOTING STRATEGY

Use these steps to plan your diagnostic strategy. If you follow them carefully, you will be sure that you have exhausted all of the possible ways to find a SRS fault.

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1. Gather information about the problem from the customer.
2. Verify that the condition described by the customer exists.
3. Check the vehicle for any SRS diagnostic trouble codes (SRS DTC).
4. If you cannot verify the condition but there are no SRS DTCs, the malfunction is intermittent. Refer to INTRODUCTION, How to use Troubleshooting – Inspection Service Points – How to Cope With Intermittent Malfunctions [P.00-6](#).
5. If there is a SRS DTC, record the code number, then erase the code from vehicle memory using scan tool MB991958.
6. Recreate the SRS DTC set conditions to see if the same SRS DTC will set again.
 - If the same SRS DTC sets again, follow the Inspection Chart for DTC and find the fault.
 - If you cannot get the same SRS DTC to set again, the malfunction is intermittent. Refer to GROUP 00, How to use Troubleshooting – Inspection Service Points – How to Cope With Intermittent Malfunctions [P.00-6](#).

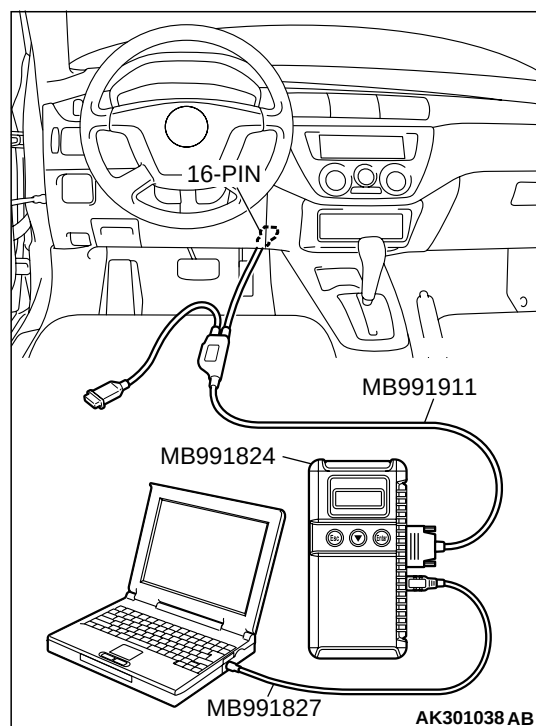
DIAGNOSTIC FUNCTION

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HOW TO CONNECT THE SCAN TOOL

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

**⚠ CAUTION**

To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

1. Ensure that the ignition switch is at the "LOCK" (OFF) position.
2. Start up the personal computer.
3. Connect special tool MB991827 to special tool MB991824 and the personal computer.
4. Connect special tool MB991911 to special tool MB991824.
5. Connect special tool MB991911 to the data link connector.
6. Turn the power switch of special tool MB991824 to the "ON" position.

NOTE: When special tool MB991824 is energized, special tool MB991824 indicator light will be illuminated in a green color.

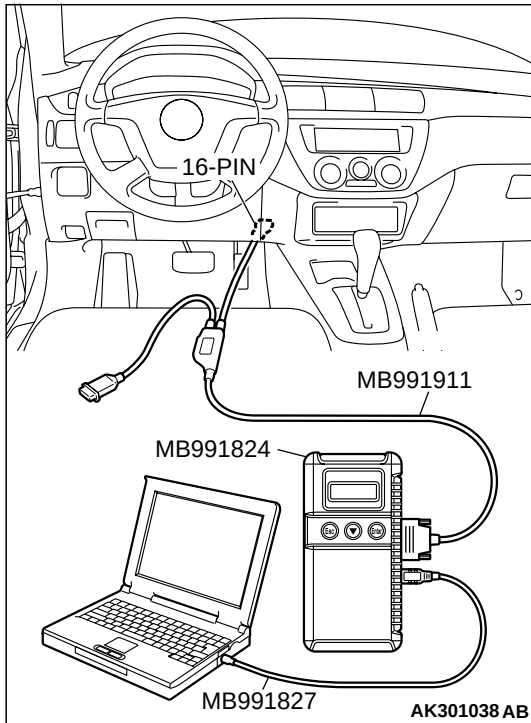
7. Start the MUT-III system on the personal computer.

NOTE: Disconnecting scan tool MB991958 is the reverse of the connecting sequence, making sure that the ignition switch is at the "LOCK" (OFF) position.

HOW TO READ AND ERASE DIAGNOSTIC TROUBLE CODES

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)



CAUTION

To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

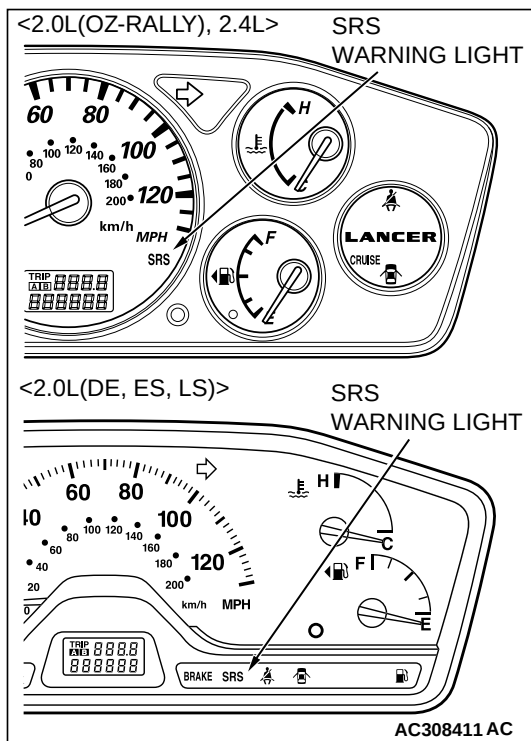
NOTE: If the battery voltage is low, diagnostic trouble codes will not be set. Check the battery if scan tool MB991958 does not display.

1. Connect scan tool MB991958 to the data link connector.
2. Turn the ignition switch to the "ON" position.
3. Select "Interactive Diagnosis" from the start-up screen.
4. Select "System select."
5. Choose "SRS-AIR BAG" from the "BODY" tab.
6. Select "MITSUBISHI."
7. Select "Diagnostic Trouble Code."
8. If a DTC is set, it is shown.
9. Choose "Erase DTCs" to erase the DTC.

SRS WARNING LIGHT CHECK

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1. Check that the SRS warning light illuminates when the ignition switch is in the "ON" position.
2. Check that it illuminates for approximately seven seconds and then goes out.
3. If not, check for DTC.



DIAGNOSTIC TROUBLE CODE CHART

M1524003300551

Inspect according to the inspection chart that is appropriate for the DTC.

DIAGNOSTIC TROUBLE CODE NO.	INSPECTION ITEM	REFERENCE PAGE
14	Analog G-sensor system in the SRS-ECU	P.52B-25
15	Safing G-sensor short circuit	P.52B-25
16	Safing G-sensor open circuit	P.52B-25
17	Safing G-sensor for side-airbag faults	P.52B-25
21*2	Driver's air bag module (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-27
22*2	Driver's air bag module (squib) system fault 2 (Open in the squib circuit)	P.52B-34
24*2	Passenger's (front) air bag module (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-38
25*2	Passenger's (front) air bag module (squib) system fault 2 (Open in the squib circuit)	P.52B-44
26*2	Driver's pre-tensioner (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-47
27*2	Driver's pre-tensioner (squib) system fault 2 (Open in the squib circuit)	P.52B-54
28*2	Passenger's (front) pre-tensioner (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-59
29*2	Passenger's (front) pre-tensioner (squib) system fault 2 (Open in the squib circuit)	P.52B-67
31	SRS-ECU capacitor circuit voltage too high	P.52B-25
32	SRS-ECU capacitor circuit voltage too low	P.52B-25
34*1	Connector lock system detects connector unlocked	P.52B-72
35	SRS-ECU air bag condition monitor detects deployed air bag	P.52B-74
39	Airbags deployed simultaneously	P.52B-74
41*1	IG1 power supply circuit system (fuse No.2 circuit)	P.52B-75
42*1	IG1 power supply circuit system (fuse No.3 circuit)	P.52B-82
43*1	SRS warning light drive circuit system fault 1	Light does not illuminate*1
		Light does not switch off
44*1	SRS warning light drive circuit system fault 2	P.52B-99
45	SRS-ECU non-volatile memory (EEPROM) and A/D converter system	P.52B-25
46*1	Improperly installed SRS-ECU	P.52B-100
51	Driver's air bag module (squib ignition drive circuit) system detected short circuit	P.52B-25

DIAGNOSTIC TROUBLE CODE NO.	INSPECTION ITEM	REFERENCE PAGE
52	Driver's air bag module (squib ignition drive circuit) system detected open circuit	P.52B-25
54	Passenger's (front) air bag module (squib ignition drive circuit) system detected short circuit	P.52B-25
55	Passenger's (front) air bag module (squib ignition drive circuit) system detected open circuit	P.52B-25
56	Driver's seat belt pre-tensioner (squib ignition drive circuit) system detected short	P.52B-25
57	Driver's seat belt pre-tensioner (squib ignition drive circuit) system detected open	P.52B-25
58	Passenger's (front) seat belt pre-tensioner (squib ignition drive circuit) system detected short	P.52B-25
59	Passenger's (front) seat belt pre-tensioner (squib ignition drive circuit) system detected open	P.52B-25
61	Driver's air bag module (squib) system fault for power supply circuit (Short-circuited to power supply)	P.52B-101
62	Driver's air bag module (squib) system fault for ground circuit (Short-circuited to ground)	P.52B-106
64	Passenger's (front) air bag module (squib) system fault for power supply circuit (Short-circuited to power supply)	P.52B-111
65	Passenger's (front) air bag module (squib) system fault for ground circuit (Short-circuited to ground)	P.52B-115
66	Driver's seat belt pre-tensioner (squib) system fault for power supply circuit (Short-circuited to power supply)	P.52B-119
67	Driver's seat belt pre-tensioner (squib) system fault for ground circuit (Short-circuited to ground)	P.52B-124
68	Passenger's (front) pre-tensioner (squib) system fault for power supply circuit (Short-circuited to power supply)	P.52B-129
69	Passenger's (front) pre-tensioner (squib) system fault for ground circuit (Short-circuited to ground)	P.52B-134
71*2	Side-airbag module (RH) (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-139
72*2	Side-airbag module (RH) (squib) system fault 2 (Open in the squib circuit)	P.52B-145
73	Side-airbag module (RH) (squib) system detected short circuit	P.52B-25
74	Side-airbag module (RH) (squib) system detected open circuit	P.52B-25
75	Side-airbag module (RH) (squib) system fault power supply circuit (Short-circuited to power supply)	P.52B-148
76	Side-airbag module (RH) (squib) system fault ground circuit (Short-circuited to ground)	P.52B-152
79	Side-airbag module (LH) (squib) system fault 5 for power supply circuit	P.52B-156

DIAGNOSTIC TROUBLE CODE NO.	INSPECTION ITEM	REFERENCE PAGE
81*2	Side-airbag module (LH) (squib) system fault 1 (Short circuit between terminals of the squib circuit)	P.52B-159
82*2	Side-airbag module (LH) (squib) system fault 2 (Open in the squib circuit)	P.52B-165
83	Side-airbag module (LH) (squib) system fault 3 for ignition drive circuit	P.52B-25
84	Side-airbag module (LH) (squib) system fault 4 for ignition drive circuit	P.52B-25
85	Side-airbag module (LH) (squib) system fault power supply circuit (Short-circuited to power supply)	P.52B-168
86	Side-airbag module (LH) (squib) system fault ground circuit (Short-circuited to ground)	P.52B-172
89	Side-airbag module (RH) (squib) system fault 5 for power supply circuit	P.52B-176
91*1	Side-impact sensor (LH) power supply circuit system	P.52B-179
92	Side-impact sensor (LH) system for fault 1	P.52B-182
93	Side-airbag module (LH) (squib) system fault 6 for communication system	P.52B-156
94*1	Side-impact sensor (RH) power supply circuit system	P.52B-183
95	Side-impact sensor (RH) system for fault 1	P.52B-182
96	Side-airbag module (RH) (squib) system fault 6 for communication system	P.52B-176

NOTE:

1. *1: If the vehicle condition returns to normal, the DTC will be automatically erased, and the SRS warning light will return to normal.
2. *2: However, if no DTC resets, the SRS warning light will be switched off (The DTC will be retained).
3. If the vehicle has a discharged battery, it will store the DTC 41 or 42. When these DTC are read, check the battery.

DIAGNOSTIC TROUBLE CODE PROCEDURES

DTC 14: Analog G-Sensor System in the SRS-ECU
DTC 15: Safing G-Sensor Short Circuit
DTC 16: Safing G-Sensor Open Circuit
DTC 17: Safing G-Sensor for Side-Airbag Faults
DTC 31: SRS-ECU Capacitor Circuit Voltage too High
DTC 32: SRS-ECU Capacitor Circuit Voltage too Low
DTC 45: SRS-ECU Non-Volatile Memory (EEPROM) and A/D Converter System
DTC 51: Driver's Air Bag Module (Squib Ignition Drive Circuit) System Detected Short Circuit
DTC 52: Driver's Air Bag Module (Squib Ignition Drive Circuit) System Detected Open Circuit
DTC 54: Passenger's (Front) Air Bag Module (Squib Ignition Drive Circuit) System Detected Short Circuit
DTC 55: Passenger's (Front) Air Bag Module (Squib Ignition Drive Circuit) System Detected Open Circuit
DTC 56: Driver's Seat Belt Pre-tensioner (Squib Ignition Drive Circuit) System Detected Short Circuit
DTC 57: Driver's Seat Belt Pre-tensioner (Squib Ignition Drive Circuit) System Detected Open Circuit
DTC 58: Passenger's Seat Belt Pre-tensioner (Squib Ignition Drive Circuit) System Detected Short Circuit
DTC 59: Passenger's Seat Belt Pre-tensioner (Squib Ignition Drive Circuit) System Detected Open Circuit
DTC 73: Side-Airbag Module (RH) (Squib) System Detected Short Circuit
DTC 74: Side-Airbag Module (RH) (Squib) System Detected Open Circuit
DTC 83: Side-Airbag Module (LH) (Squib) System Fault 3 for Ignition Drive Circuit
DTC 84: Side-Airbag Module (LH) (Squib) System Fault 4 for Ignition Drive Circuit

DTC SET CONDITIONS

- These DTC are set when a fault is detected in the SRS-ECU. The most likely causes for this code to be set are shown in the table below:

TROUBLESHOOTING HINTS

- Malfunction of the SRS-ECU

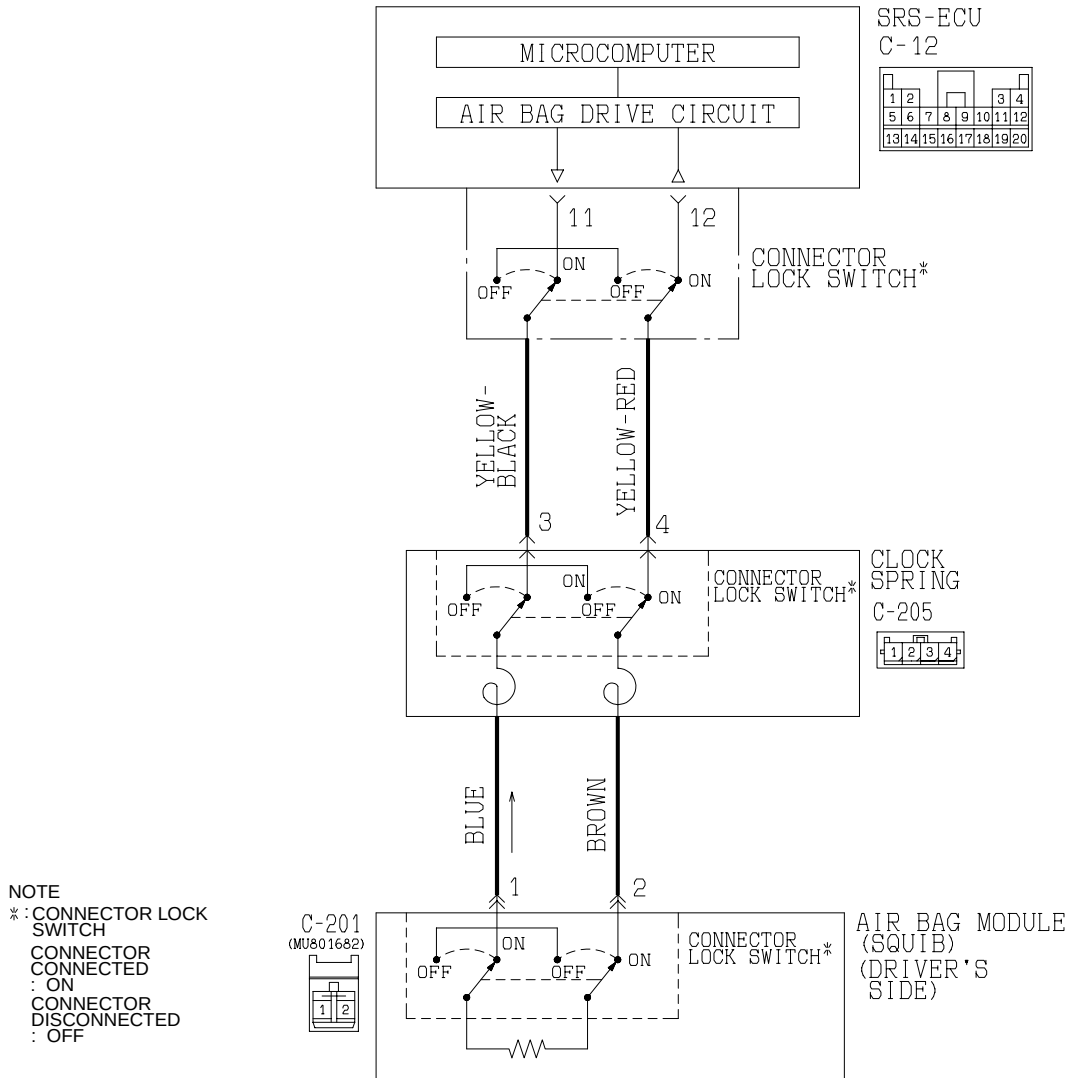
CODE NO.	DEFECTIVE PART	SYMPTOMS
14	Analog G-sensor	• When the analog G-sensor is not operating • When the characteristics of the analog G-sensor are abnormal • When the output from the analog G-sensor is abnormal
15	Safing G-sensor (front air bag)	• Short circuit in the safing G-sensor
16		• Open circuit in the safing G-sensor
17	Safing G-sensor (side-airbag)	• When the safing G-sensor is not operating • When the characteristics of the safing G-sensor are abnormal • When the output from the safing G-sensor is abnormal
31	Capacitor	• Voltage at the capacitor terminal is higher than the specified value for five seconds or more
32		• Voltage at the capacitor terminal is lower than the specified value for five seconds or more (This is not detected if DTC No. 41 or 42 indicating battery positive voltage drop has been output.)
45	Non-volatile memory (EEPROM) and A/D converter	• When the non-volatile memory (EEPROM) and A/D converter system are abnormal
51	Driver's air bag module (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
52		• Open circuit in the squib ignition drive circuit
54	Front passenger's air bag module (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
55		• Open circuit in the squib ignition drive circuit
56	Driver's seat belt pre-tensioner (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
57		• Open circuit in the squib ignition drive circuit
58	Passenger's seat belt pre-tensioner (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
59		• Open circuit in the squib ignition drive circuit
73	Side-airbag module (RH) (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
74		• Open circuit in the squib ignition drive circuit
83	Side-airbag module (LH) (squib ignition drive circuit)	• Short circuit in the squib ignition drive circuit
84		• Open circuit in the squib ignition drive circuit

DIAGNOSIS

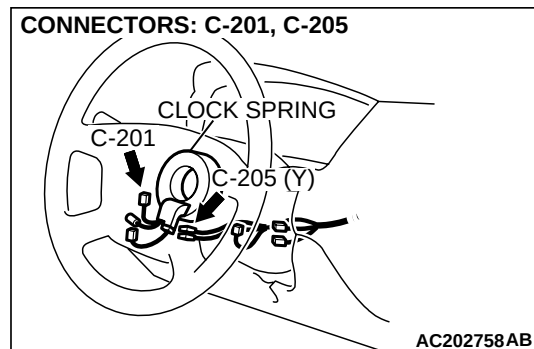
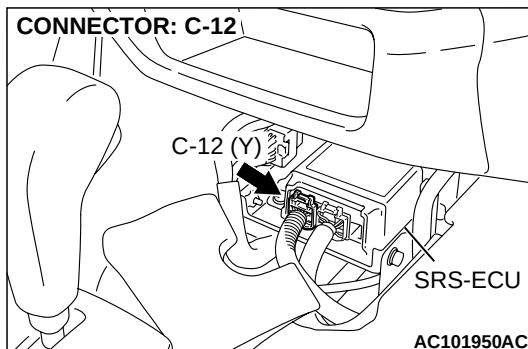
Replace the SRS-ECU. (Refer to [P.52B-202.](#))

DTC 21: Driver's Air Bag Module (Squib) System Fault 1 (Short Circuit between Terminals of the Squib Circuit)

Driver's Air Bag Module (Squib) Circuit



W3J04M06AA
AC202995AB



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's air bag module (squib). The most likely causes for this code to be set are the following:

- Short circuit in driver's air bag module (squib) or harness
- Short circuit in the clock spring

However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

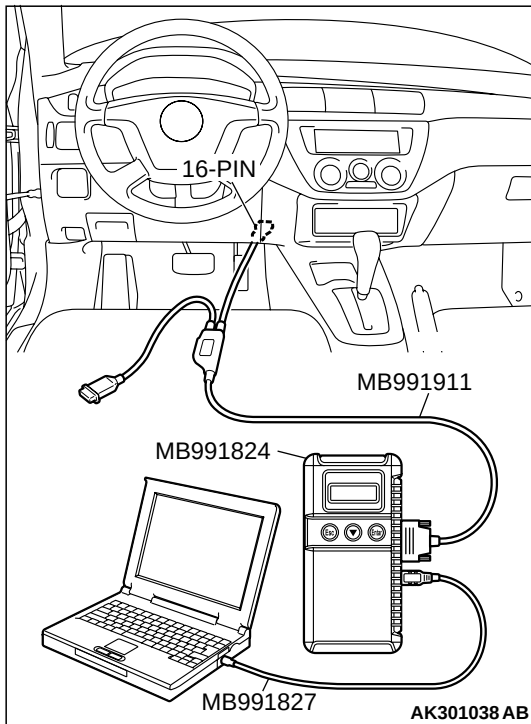
TROUBLESHOOTING HINTS

- Improper engaged connector or defective short spring
- Short circuit in the clock spring
- Short circuit between the driver's air bag module (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

*NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected). (Refer to P.52B-2.) Therefore, if connector C-12, C-205 or C-201 is damaged or improperly engaged, the short spring not be released when the connector is connected.*

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

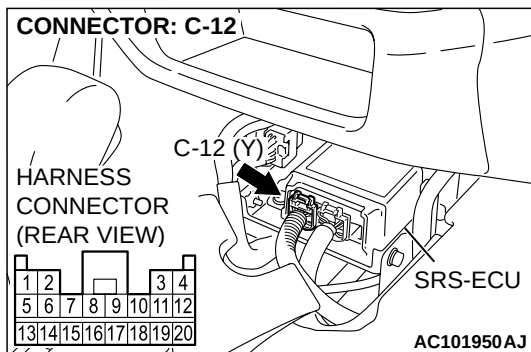


STEP 1. Using scan tool MB991958, read the diagnostic trouble code.

Q: Is DTC 34 set?

YES : Go to Step 2.

NO : Go to Step 3.

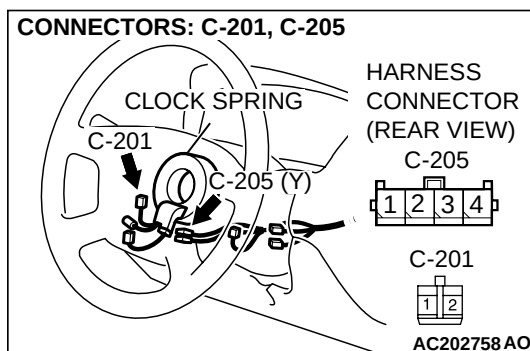
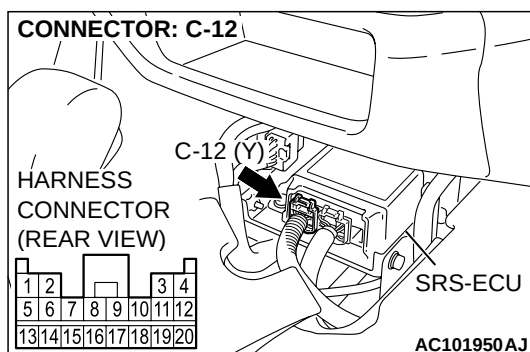


STEP 2. Check SRS-ECU connector C-12.

Q: Is the connector correctly engaged?

YES : Go to Step 3.

NO : Engage the connector correctly. Then go to Step 8.



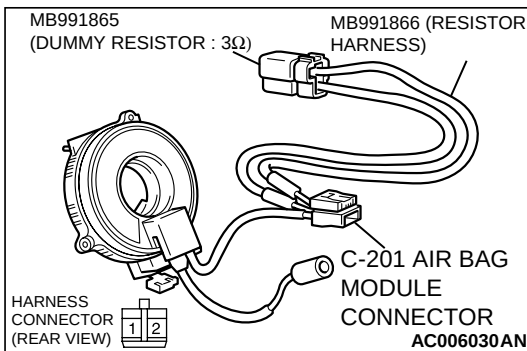
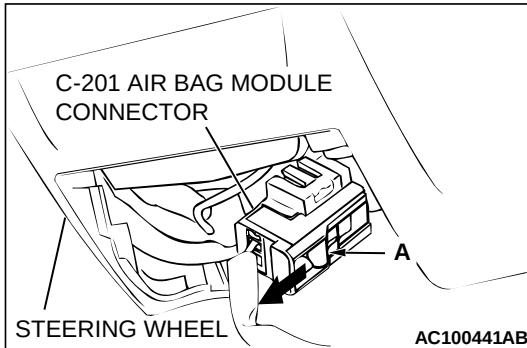
STEP 3. Check SRS-ECU connector C-12, clock spring connector C-205 and driver's air bag module connector C-201. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect connectors C-12, C-205 and C-201, and then reconnect them.
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 21 set?

YES : Go to Step 4.

NO : The procedure is complete. It is assumed that DTC 21 set as connector C-12, C-205 or C-201 was engaged improperly.



STEP 4. Check the driver's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) By sliding the A section (in the figure) of air bag module connector C-201 in the arrow direction, disconnect the connector.

- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into clock spring side air bag module connector C-201 by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 21 set?

YES : Go to Step 5.

NO : Replace the driver's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 8.

STEP 5. Check the clock spring. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the clock spring connector C-205.
- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

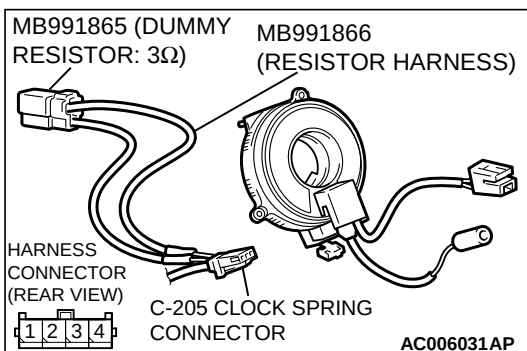
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

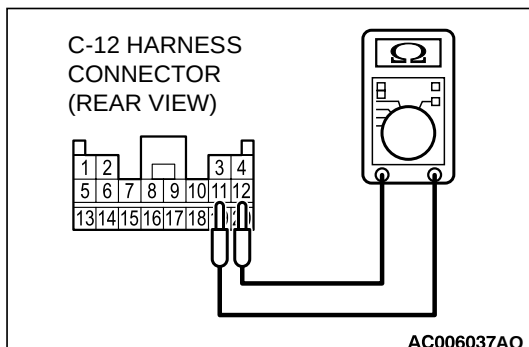
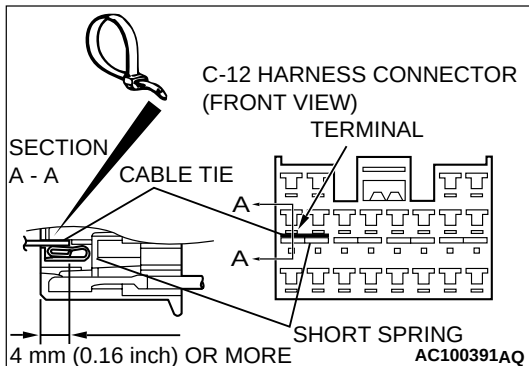
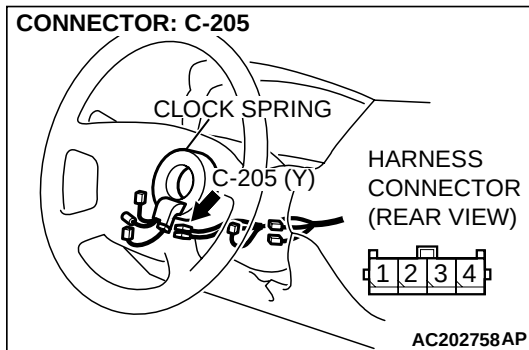
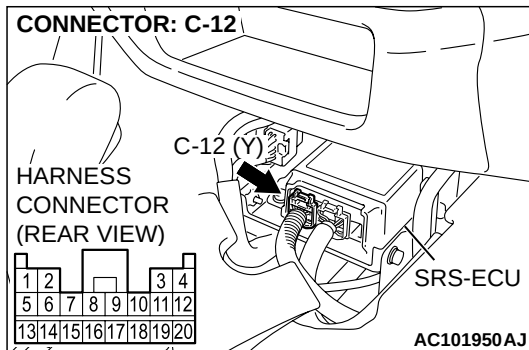
- (4) Insert special tool MB991866 into clock spring harness side connector C-205 (terminal No.3 and 4) by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 21 set?

YES : Go to Step 6.

NO : Replace the clock spring. (Refer to [P.52B-205.](#)) Then go to Step 8.





STEP 6. Check the driver's air bag module circuit at the SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the clock spring connector C-205 to short the squib circuit.

(2) Disconnect the clock spring connector C-205.

⚠ CAUTION

Insert an insulator such as a cable tie to a depth of 4mm (0.16 inch) or more, otherwise the short spring will not be released.

(3) Insert a cable tie [3 mm (0.12 inch) wide, 0.5 mm (0.02 inch) thick] between terminals 11, 12 and the short spring to release the short spring.

⚠ CAUTION

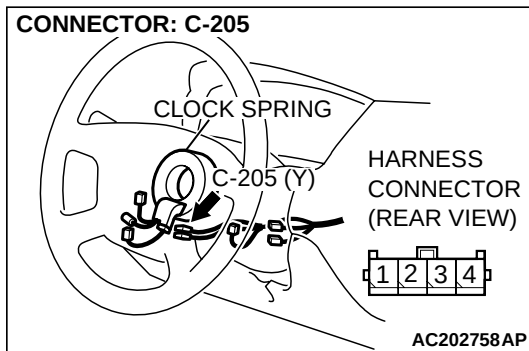
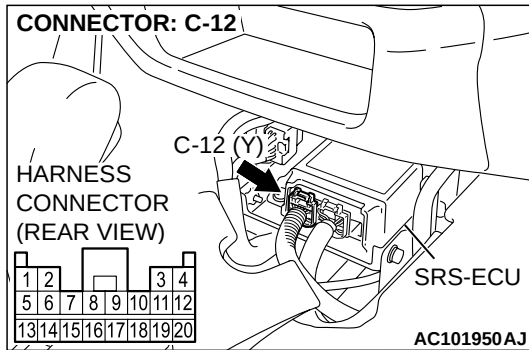
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(4) Check for continuity between C-12 harness connector terminals 11 and 12.
It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 7.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 21 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 8.



STEP 7. Check the harness for short circuit between SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4).

Q: Are harness wires between SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4) in good condition?

YES : Go to Step 8.

NO : Repair the harness wires between SRS-ECU connector C-12 and clock spring connector C-205. Then go to Step 8.

STEP 8. Recheck for diagnostic trouble code.

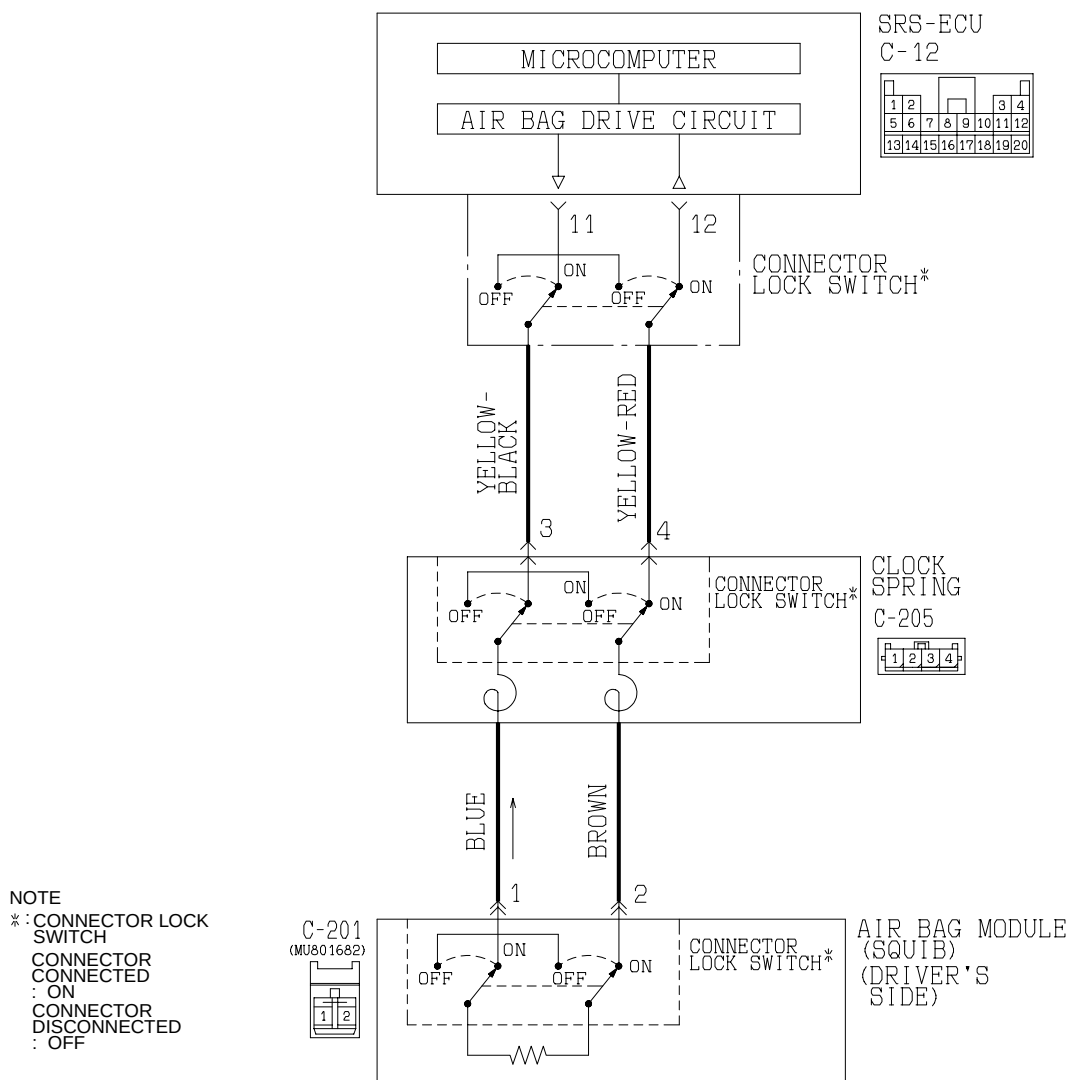
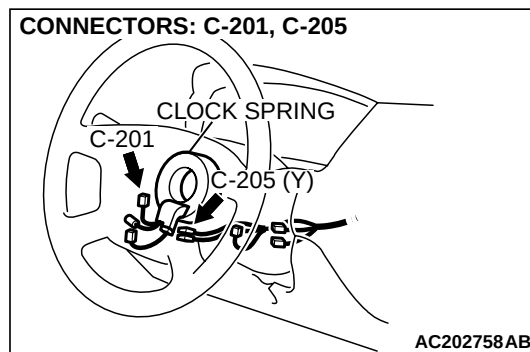
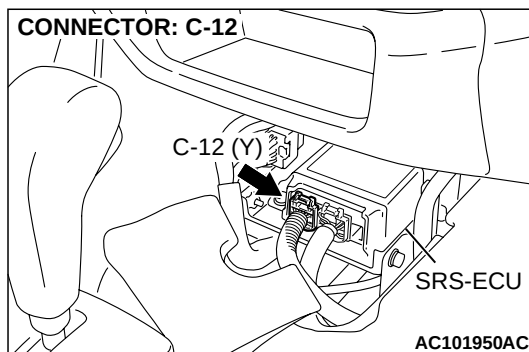
Q: Is DTC 21 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 22: Driver's Air Bag Module (Squib) System Fault 2 (Open in the Squib Circuit)

Driver's Air Bag Module (Squib) Circuit

W3J04M06AA
AC202995AB

CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's side air bag module (squib). The most likely causes for this code to be set are the following:

- Open circuit in the driver's air bag module (squib) or harness

- Open circuit in the clock spring
- Malfunction of connector contact

However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

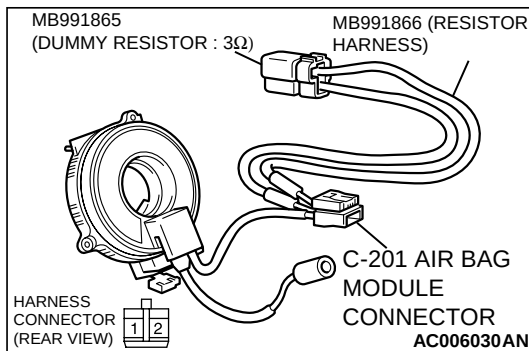
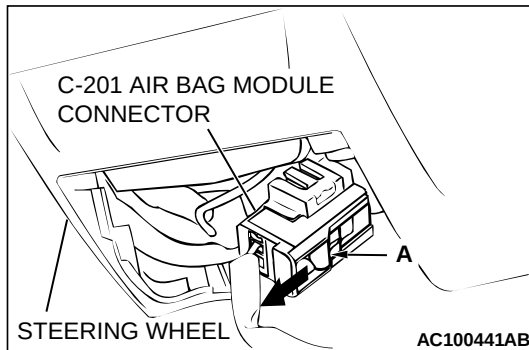
TROUBLESHOOTING HINTS

- Open circuit in the clock spring
- Open circuit due to improper neutral position of the clock spring
- Open circuit in the driver's air bag module (squib) circuit
- Disengaged driver's air bag module (squib) connector
- Improper connector contact
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness



STEP 1. Check the driver's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) By sliding the A section (in the figure) of air bag module connector C-201 in the arrow direction, disconnect the connector.

- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into clock spring side air bag module connector C-201 by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnosis trouble code memory, and check the diagnosis trouble code.

Q: Is DTC 22 set?

YES : Go to Step 2.

NO : Replace the driver's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 4.

STEP 2. Check the clock spring. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the clock spring connector C-205.
- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

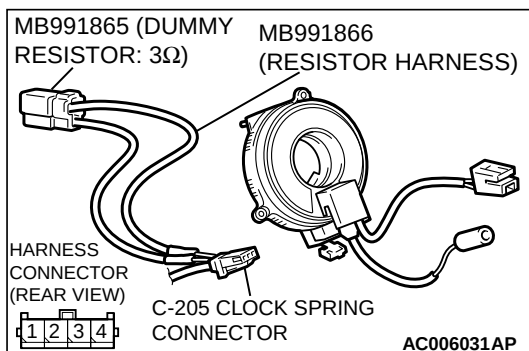
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

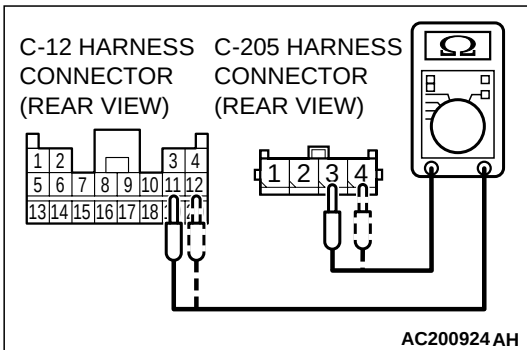
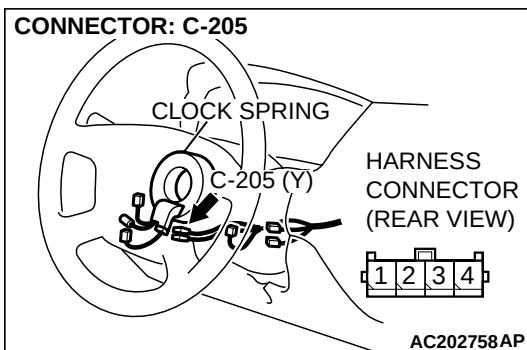
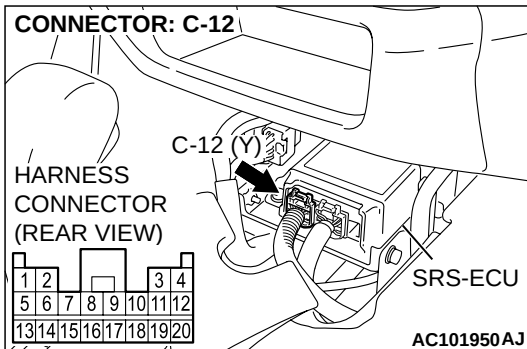
- (4) Insert special tool MB991866 into clock spring harness side connector C-205 by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 22 set?

YES : Go to Step 3.

NO : Replace the clock spring. (Refer to [P.52B-205.](#)) Then go to Step 4.





STEP 3. Check the harness between the SRS-ECU connector C-12 (terminal No.11 and 12) and the clock spring connector C-205 (terminal No.3 and 4) for open circuit.

(1) Disconnect SRS-ECU connector C-12 and clock spring connector C-205.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(2) Check for continuity between the following terminals.

- SRS-ECU connector C-12 (terminal No.11) and the clock spring connector C-205 (terminal No.3)
- SRS-ECU connector C-12 (terminal No.12) and the clock spring connector C-205 (terminal No.4)

It should be less than 2 ohms.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 22 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

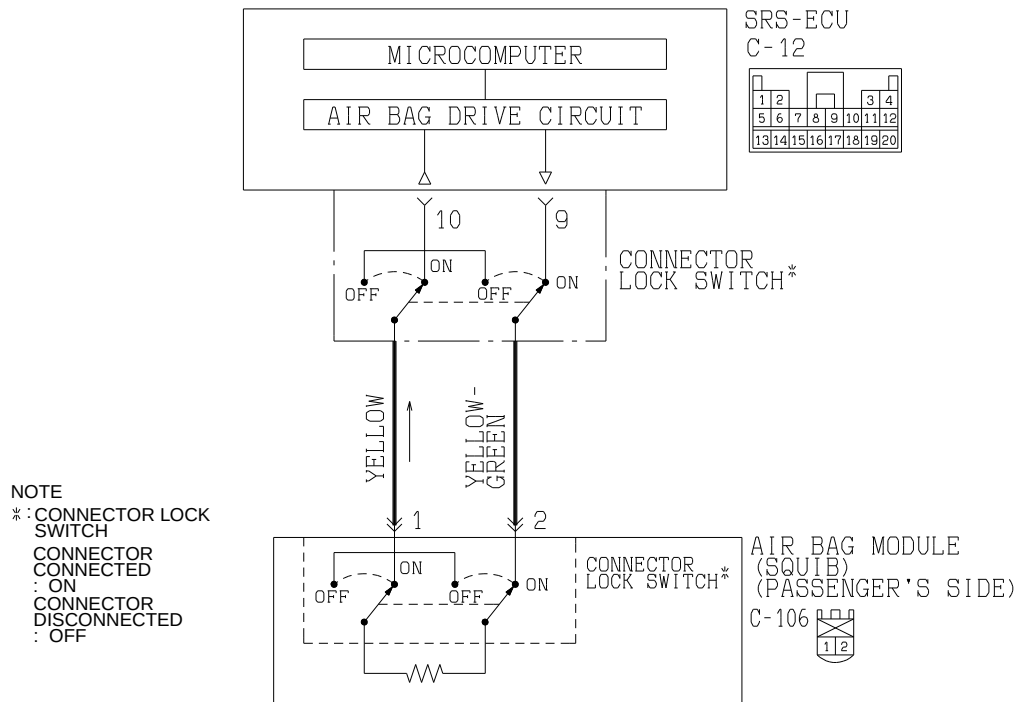
NO : Repair the harness wires between SRS-ECU connector C-12 and clock spring connector C-205. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

Q: Is DTC 22 set?

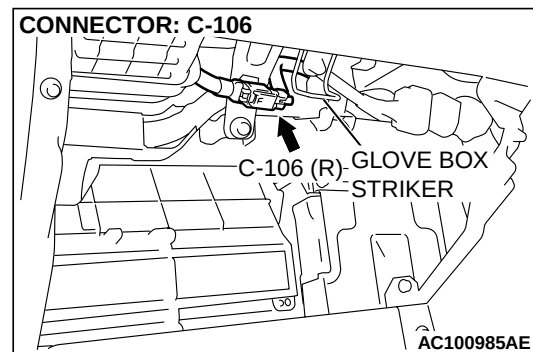
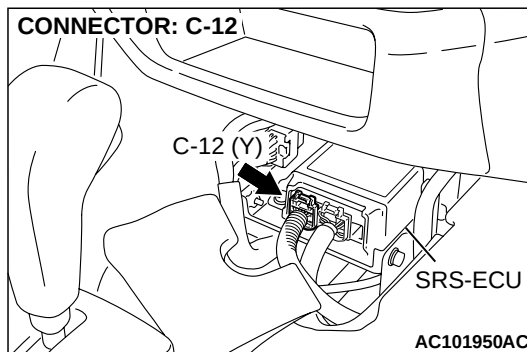
YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 24: Passenger's (Front) Air Bag Module (Squib) System Fault 1 (Short Circuit between Terminals of the Squib Circuit)**Passenger's (Front) Air Bag Module (Squib) Circuit**

W3J04M03AA

AC202990AB

**CIRCUIT OPERATION**

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's side air bag module (squib). However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

- Improper engaged connector or defective short spring
- Short circuit between the passenger's air bag module (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected). (Refer to [P.52B-2.](#)) Therefore, if connector C-12 or C-106 is damaged or improperly engaged, the short spring may not be released when the connector is connected.

DIAGNOSIS

Required Special Tools:

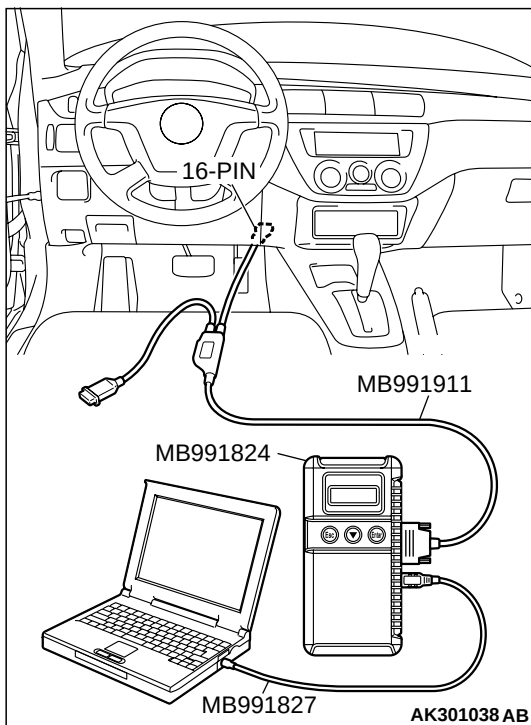
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

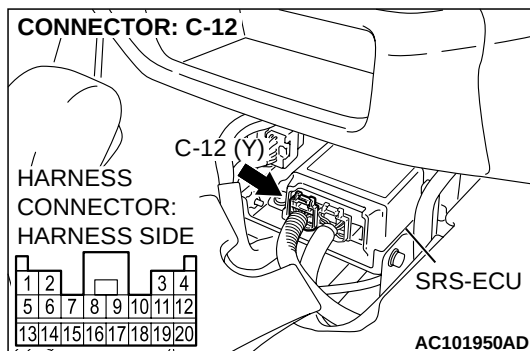
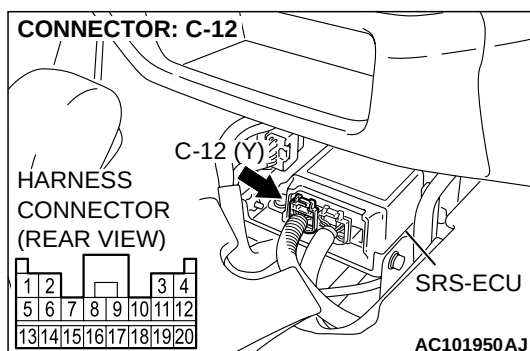
STEP 1. Using scan tool MB991958, read the diagnostic trouble code.

Q: Is DTC 34 set?

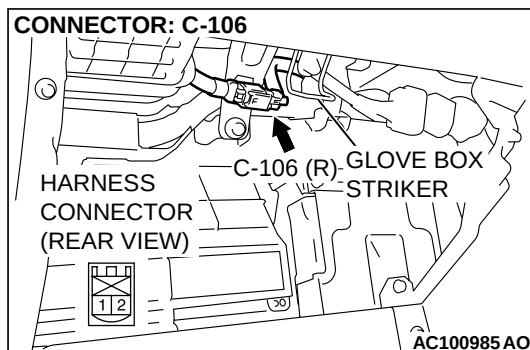
YES : Go to Step 2.

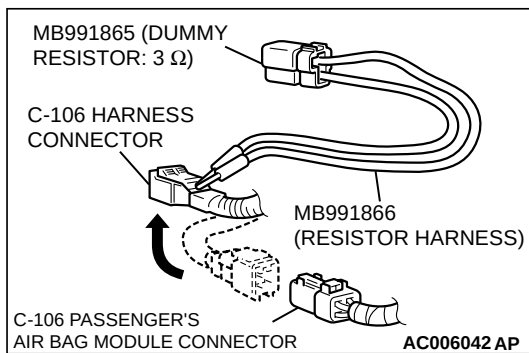
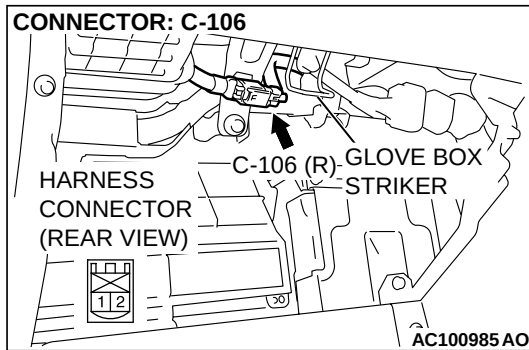
NO : Go to Step 3.



**STEP 2. Check SRS-ECU connector C-12.****Q: Is the connector correctly engaged?****YES :** Go to Step 3.**NO :** Engage the connector correctly. Then go to Step 7.**STEP 3. Check SRS-ECU connector C-12 and passenger's air bag module connector C-106. (Using scan tool MB991958, read the diagnostic trouble code.)**

- (1) Disconnect the negative battery terminal.
- (2) Disconnect connectors C-12 and C-106, and then reconnect them.
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 24 set?**YES :** Go to Step 4.**NO :** The procedure is complete. It is assumed that DTC 24 set as connector C-12 or C-106 was engaged improperly.



STEP 4. Check the passenger's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Unclip passenger's air bag module connector C-106.

- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

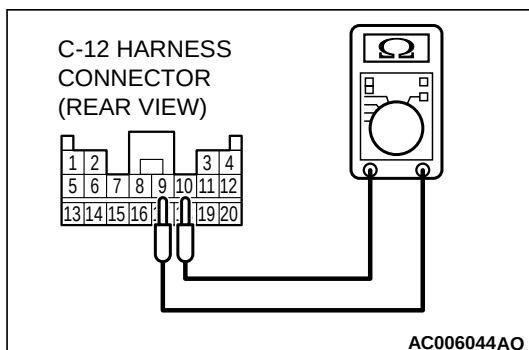
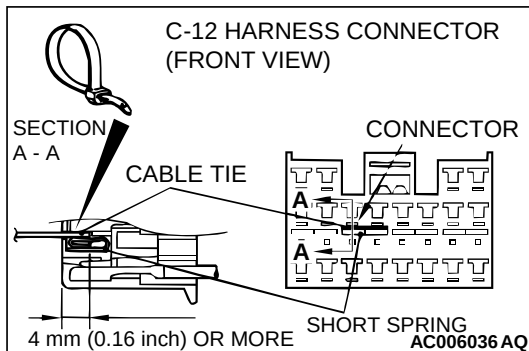
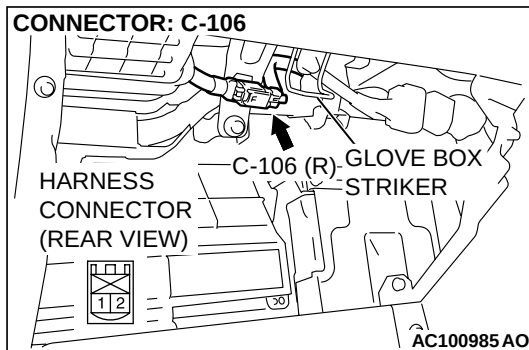
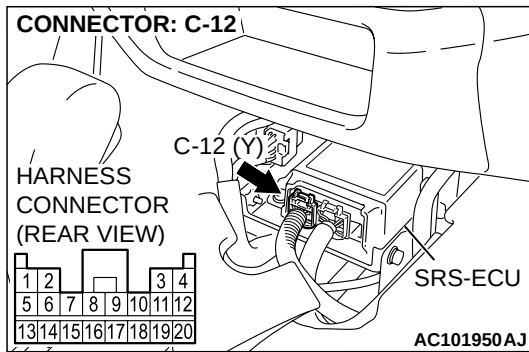
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Disconnect the passenger's air bag module connector C-106, and insert special tool MB991866 into the harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 24 set?

YES : Go to Step 5.

NO : Replace the passenger's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 7.



STEP 5. Check the passenger's air bag module circuit at SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12.

(2) Unclip passenger's air bag module connector C-106.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the passenger's air bag module connector C-106 to short the squib circuit.

(3) Disconnect the passenger's air bag module connector C-106.

⚠ CAUTION

Insert an insulator such as a cable tie to a depth of 4mm (0.16 inch) or more, otherwise the short spring will not be released.

(4) Insert a cable tie [3 mm (0.12 inch) wide, 0.5 mm (0.02 inch) thick] between terminals 9, 10 and the short spring to release the short spring.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

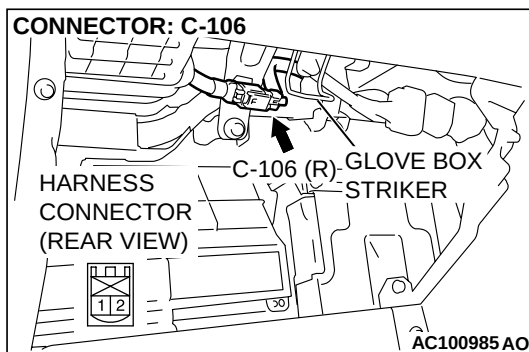
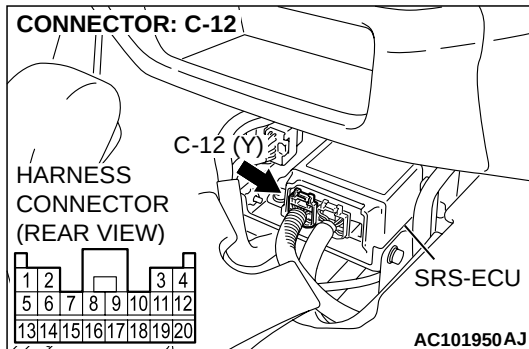
(5) Check for continuity between C-12 harness connector terminals 9 and 10.

It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 6.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 24 sets, replace the SRS-ECU. Refer to [P.52B-202](#). Then go to Step 7



STEP 6. Check the harness for short circuit between SRS-ECU connector C-12 (terminal No.9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2).

Q: Are harness wires between SRS-ECU connector C-12 (terminal No.9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2) in good condition?

YES : Go to Step 7.

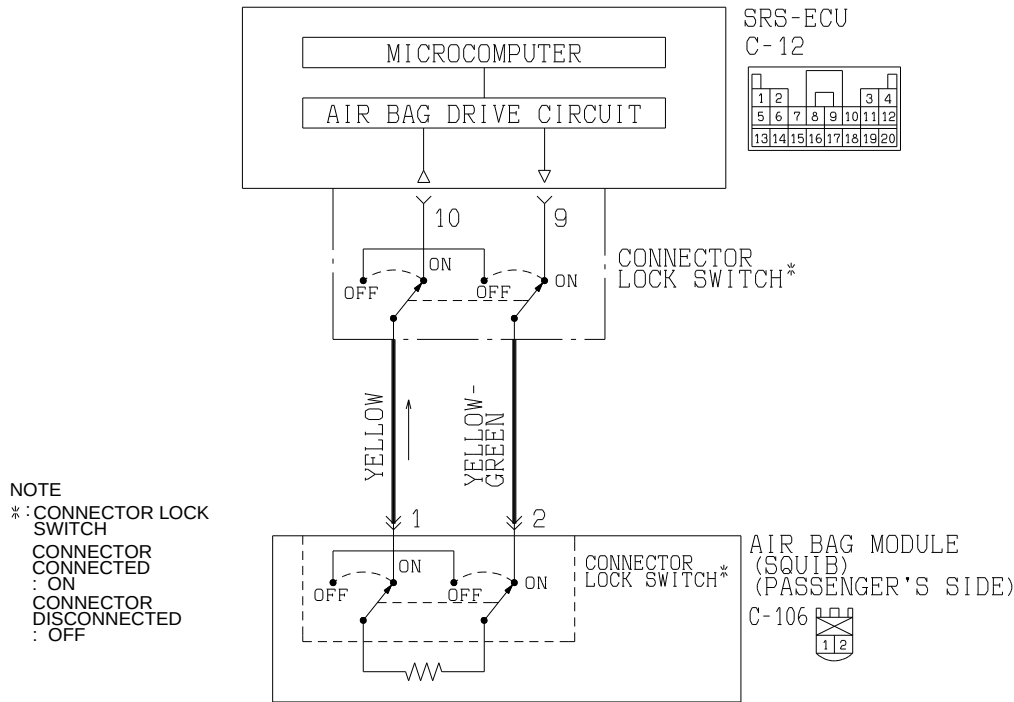
NO : Repair the harness wires between SRS-ECU connector C-12 and passenger's air bag module connector C-106. Then go to Step 7.

STEP 7. Recheck for diagnostic trouble code.

Q: Is DTC 24 set?

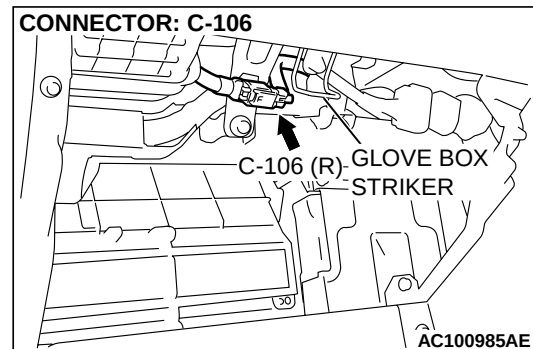
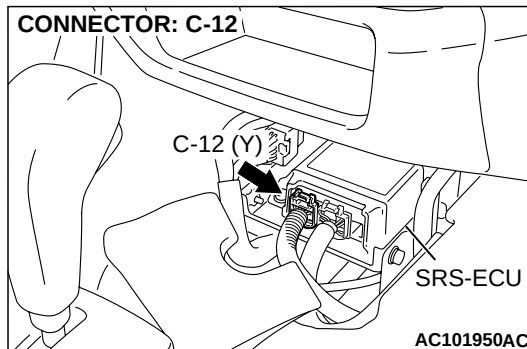
YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 25: Passenger's (Front) Air Bag Module (Squib) System Fault 2 (Open in the Squib Circuit)**Passenger's (Front) Air Bag Module (Squib) Circuit**

W3J04M03AA

AC202990AB

**CIRCUIT OPERATION**

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's air bag module (squib). The most likely causes for this code to be set are shown in the table below: However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

- Open circuit in the passenger's air bag module (squib) circuit
- Improper connector contact
- Malfunction of the SRS-ECU

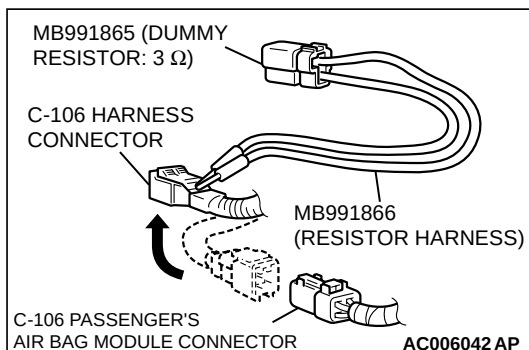
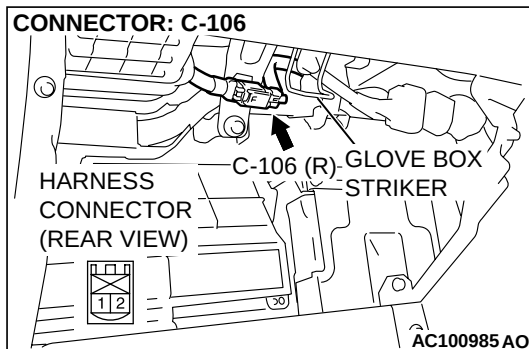
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the passenger's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Unclip passenger's air bag module connector C-106.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

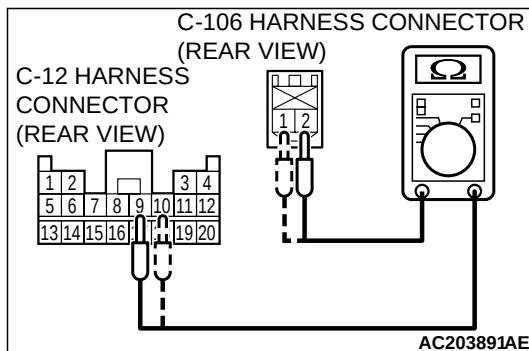
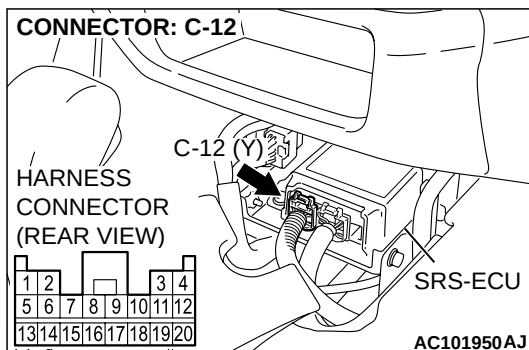
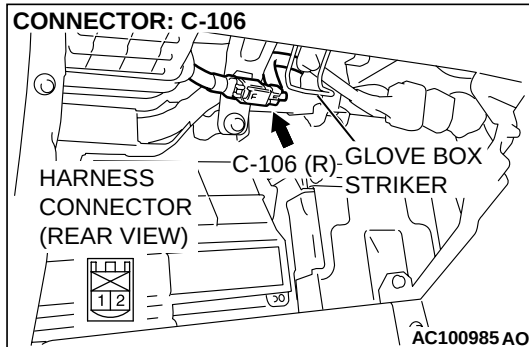
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Disconnect the passenger's air bag module connector C-106, and insert special tool MB991866 into the harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 25 set?

YES : Go to Step 2.

NO : Replace the passenger's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 3.



STEP 2. Check the harness for open circuit between SRS-ECU connector C-12 (terminal No.9 and 10) and the passenger's air bag module connector C-106 (terminal No.1 and 2).

(1) Unclip passenger's air bag module connector C-106.

(2) Disconnect SRS-ECU connector C-12 and passenger's air bag module connector C-106.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between the following terminals.

- SRS-ECU connector C-12 (terminal No.9) and the passenger's air bag module connector C-106 (terminal No.2)
- SRS-ECU connector C-12 (terminal No.10) and the passenger's air bag module connector C-106 (terminal No.1)

It should be less than 2 ohms.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 25 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-12 and passenger's air bag module connector C-106. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

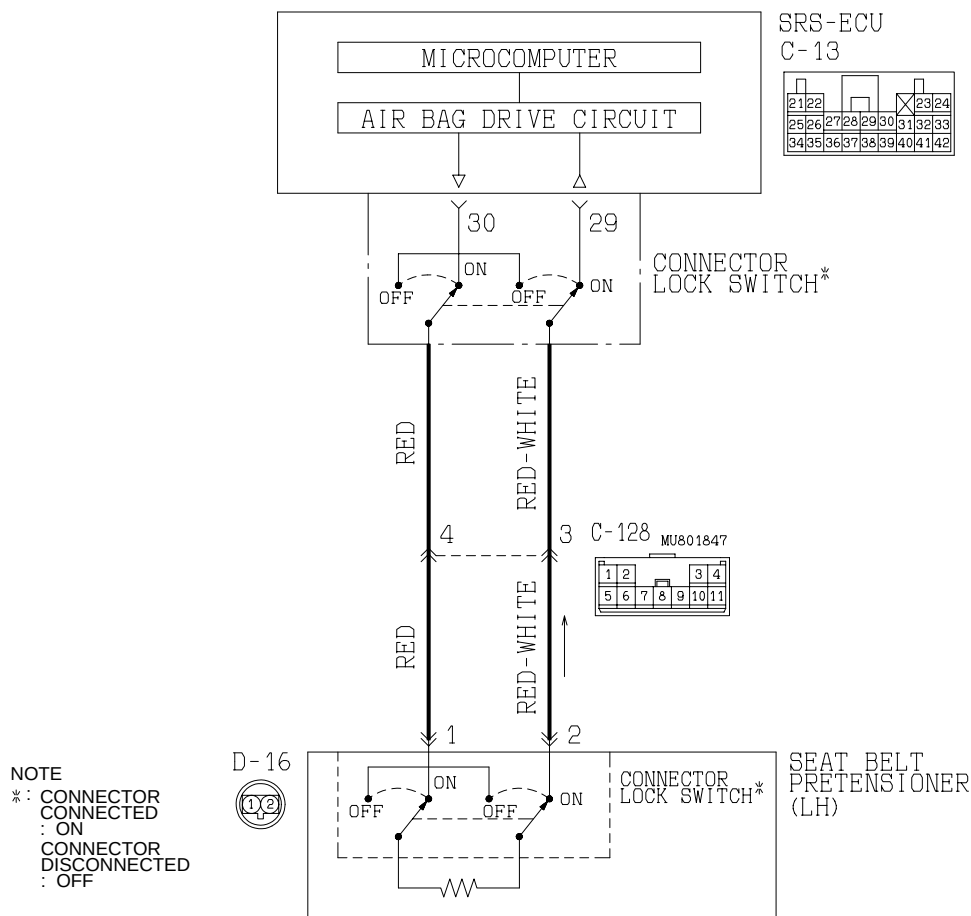
Q: Is DTC 25 set?

YES : Return to Step 1.

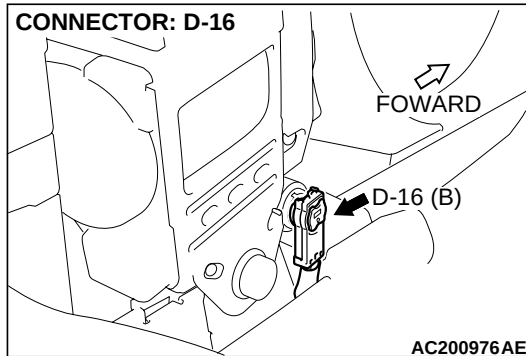
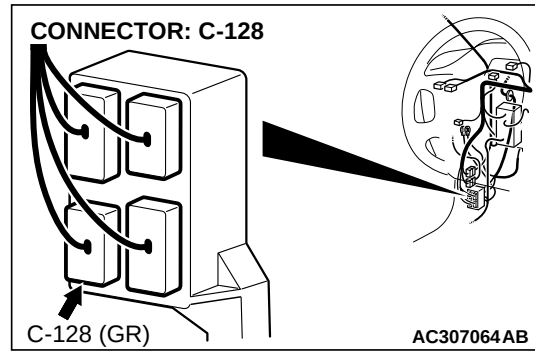
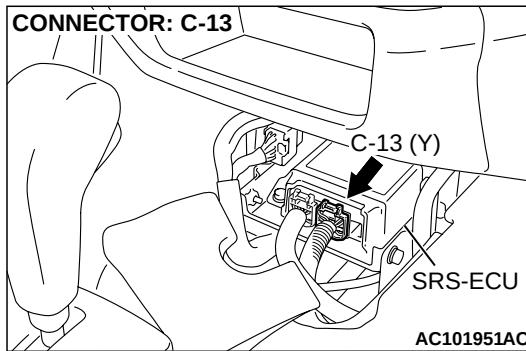
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 26: Driver's Seat Belt Pre-Tensioner (Squib) System Fault 1 (Short Circuit between Terminals of the Squib Circuit)

Driver's Seat Belt Pre-Tensioner (Squib)



W3J04M07AA
AC202996 AB



CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's side seat belt pre-tensioner (squib).

TROUBLESHOOTING HITS

- Improper engaged connector or defective short spring*

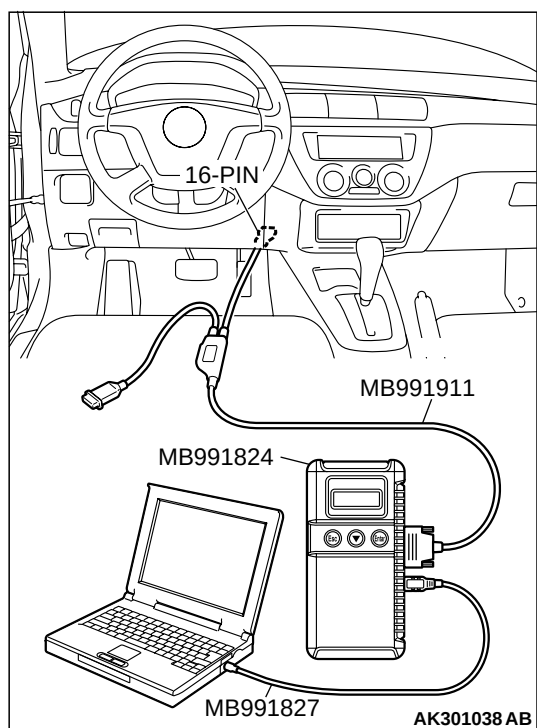
- Short circuit between the driver's seat belt pre-tensioner (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected). (Refer to [P.52B-2.](#)) Therefore, if connector C-13 or D-16 is damaged or improperly engaged, the short spring may not be released when the connector is connected.

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness (For Pre-tensioner)

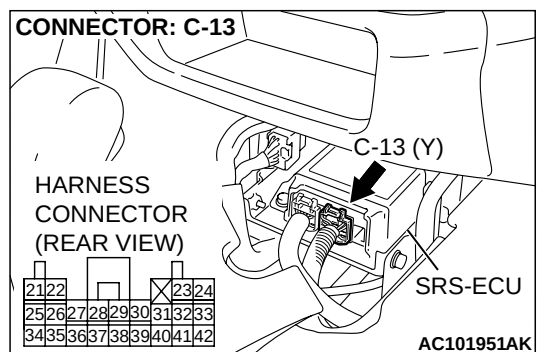


STEP 1. Using scan tool MB991958, read the diagnostic trouble code.

Q: Is DTC 34 set?

YES : Go to Step 2.

NO : Go to Step 3.

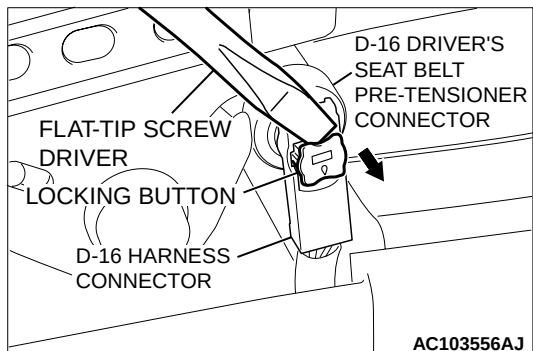
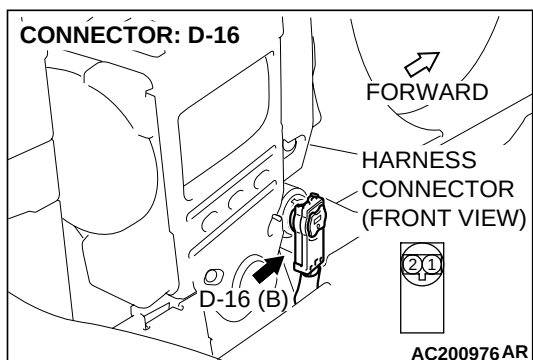
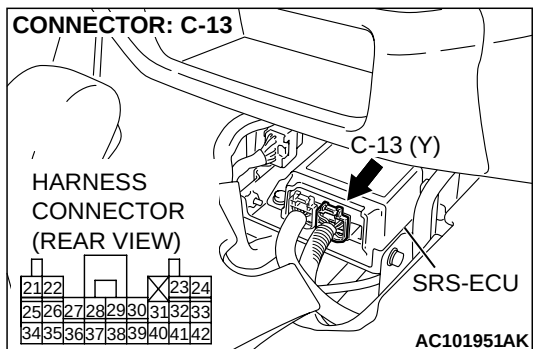


STEP 2. Check the SRS-ECU connector C-13.

Q: Is the connector correctly engaged?

YES : Go to Step 3.

NO : Engage the connector correctly. Then go to Step 7.



STEP 3. Check SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-16. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect connectors C-13 and D-16, and then reconnect them. For connector D-16, use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.
- (3) Connector the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

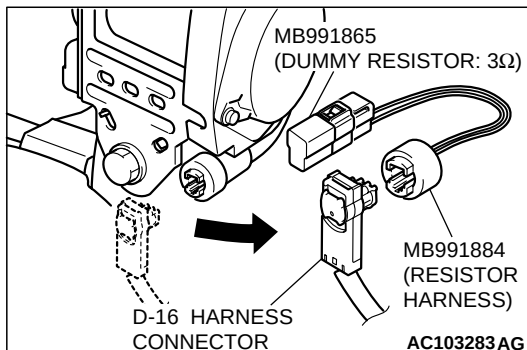
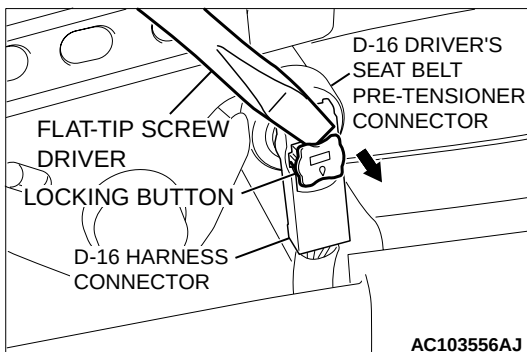
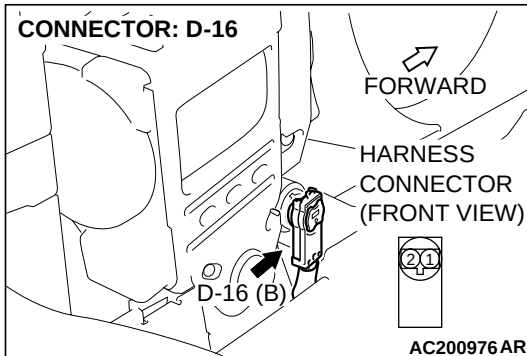
Q: Is DTC 26 set?

YES : Go to Step 4.

NO : The procedure is complete. It is assumed that DTC 26 set as connector C-13 or D-16 was engaged improperly.

STEP 4. Check the driver's seat belt pre-tensioner. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect driver's seat belt pre-tensioner connector D-16.
Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

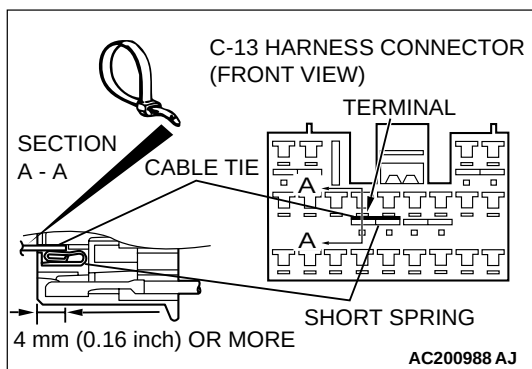
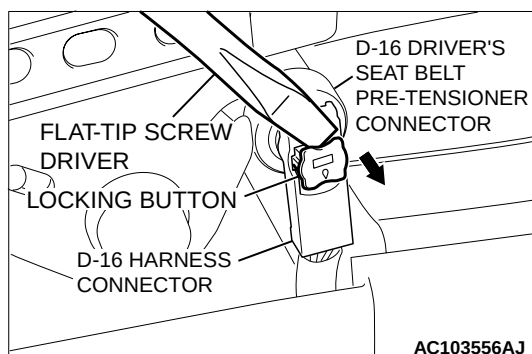
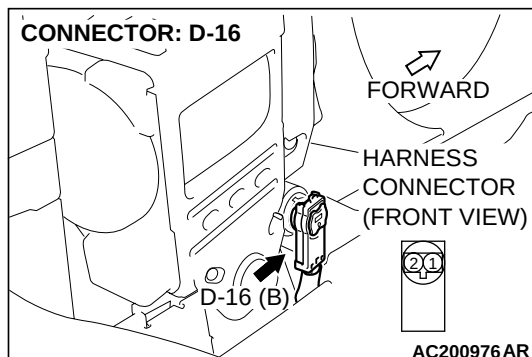


- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-16 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 26 set?

YES : Go to Step 5.

NO : Replace the driver's seat belt pre-tensioner. (Refer to [P.52B-218.](#)) Then go to Step 7.



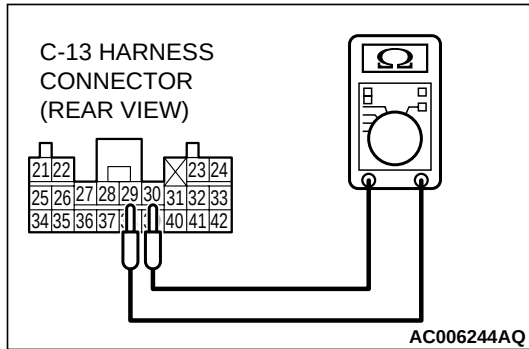
(1) Disconnect SRS-ECU connector C-13.

To prevents the air bag from deploying unintentionally, disconnect the driver's seat belt pre-tensioner connector D-16 to short the squib circuit.

(2) Disconnect driver's seat belt pre-tensioner connector D-16. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

Insert an insulator such as a cable tie to a depth of 4mm (0.16 inch) or more, otherwise the short spring will not be released.

(3) Insert a cable tie [3 mm (0.12 inch) wide, 0.5 mm (0.02 inch) thick] between terminals 29, 30 and the short spring to release the short spring.



⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

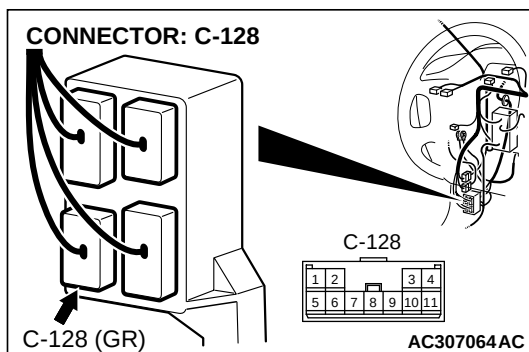
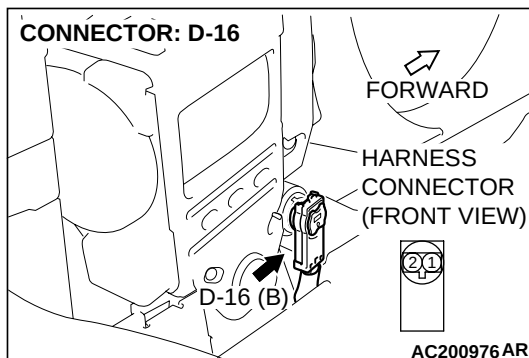
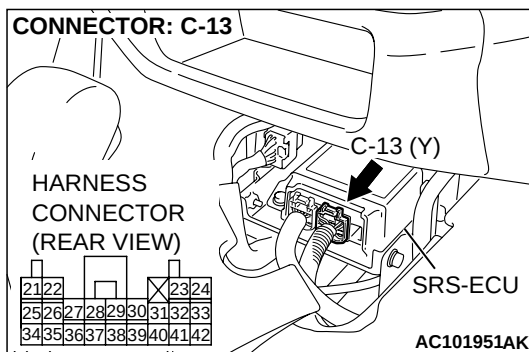
- (4) Check for continuity between terminals 29 and 30.
It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 6.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 26 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 7.

STEP 6. Check the harness for short circuit between SRS-ECU connector C-13 (terminal No.29 and 30) and driver's seat belt pre-tensioner connector D-16 (terminal No.1 and 2).



NOTE: After inspecting intermediate connector C-128, inspect the wiring harness. If the intermediate connector C-128 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2.](#) Then go to Step 7.

Q: Are harness wires between SRS-ECU connector C-13 (terminal No.29 and 30) and driver's seat belt pre-tensioner connector D-16 (terminal No.1 and 2) in good condition?

YES : Go to Step 7.

NO : Repair the harness wires between SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-16. Then go to Step 7.

STEP 7. Recheck for diagnostic trouble code.

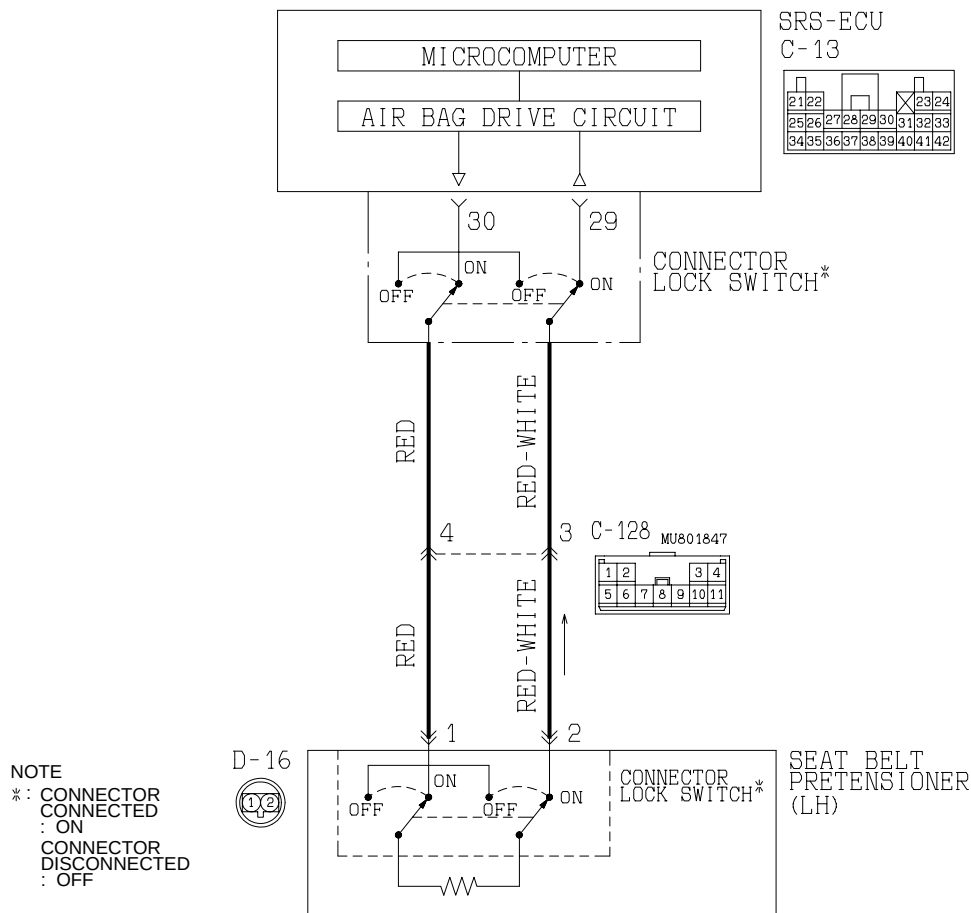
Q: Is DTC 26 set?

YES : Return to Step 1.

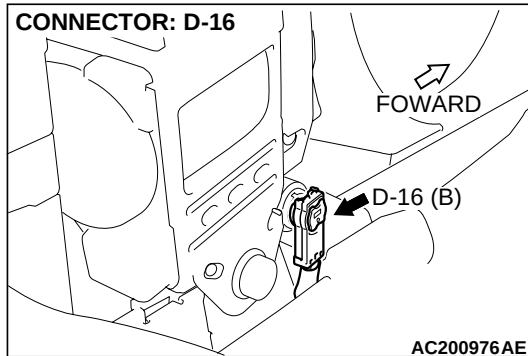
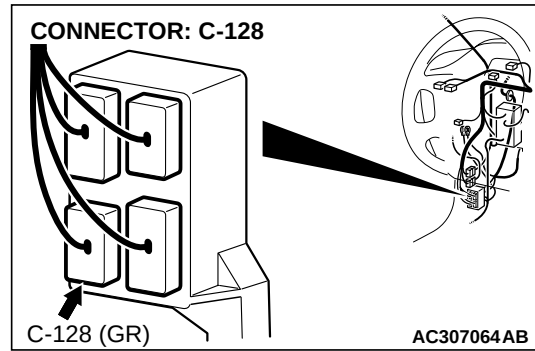
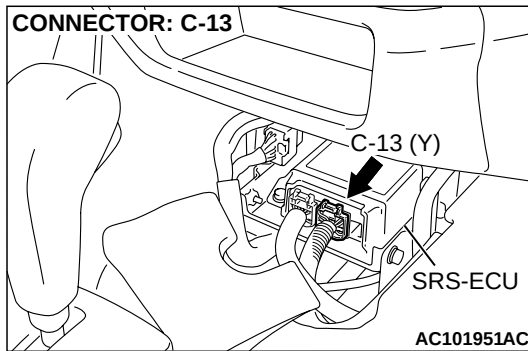
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 27: Driver's Seat Belt Pre-Tensioner (Squib) System Fault 2 (Open in the Squib Circuit)

Driver's Seat Belt Pre-Tensioner (Squib)



W3J04M07AA
AC202996 AB



CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's seat belt pre-tensioner (squib).

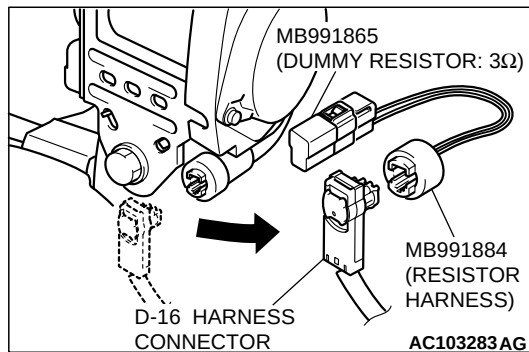
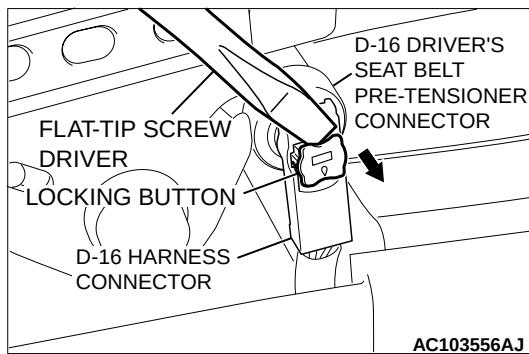
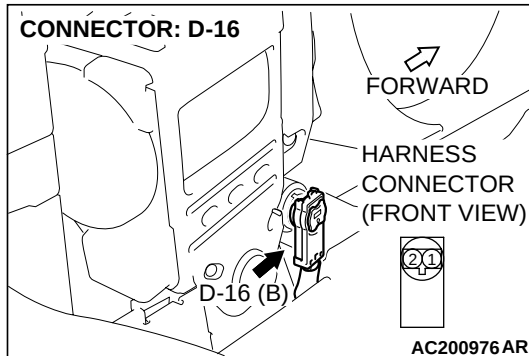
TROUBLESHOOTING HITS

- Improper connector contact
- Open circuit in the driver's seat belt pre-tensioner (squib) circuit
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resister harness (For Pre-tensioner)



STEP 1. Check the driver's seat belt pre-tensioner. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the driver's seat belt pre-tensioner connector D-16. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

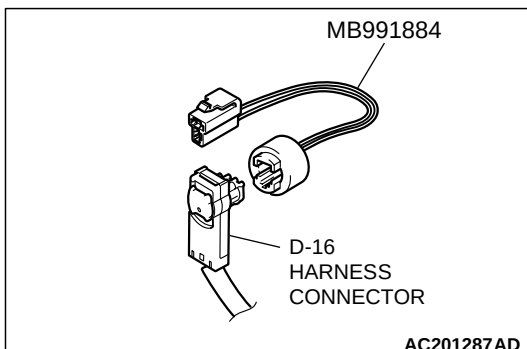
- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-16 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 27 set?

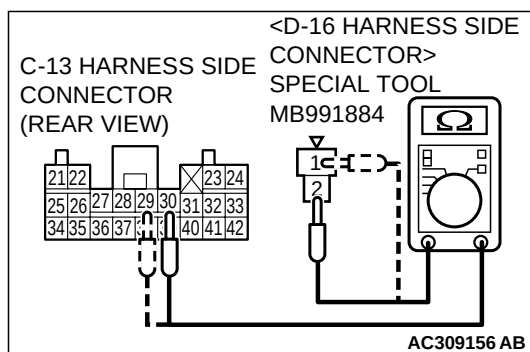
YES : Go to Step 2.

NO : Replace the driver's seat belt pre-tensioner. (Refer to [P.52B-218.](#)) Then go to Step 3.

- (1) Disconnect SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-16, and measure at the wiring harness side. For connector D-16, use a flat-tipped screwdriver to pull out the locking button at the harness side connector, and then disconnect the connector.



(2) Connect D-16 harness connector to special tool MB991884.

**⚠ CAUTION**

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between the following terminals.

- SRS-ECU connector C-13 (terminal No.30) and special tool (MB991884) connector (terminal No.1)
- SRS-ECU connector C-13 (terminal No.29) and special tool (MB991884) connector (terminal No.2)

It should be less than 2 ohms.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 27 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.

NO : Repair harness wires between SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-16. Then go to Step 3.

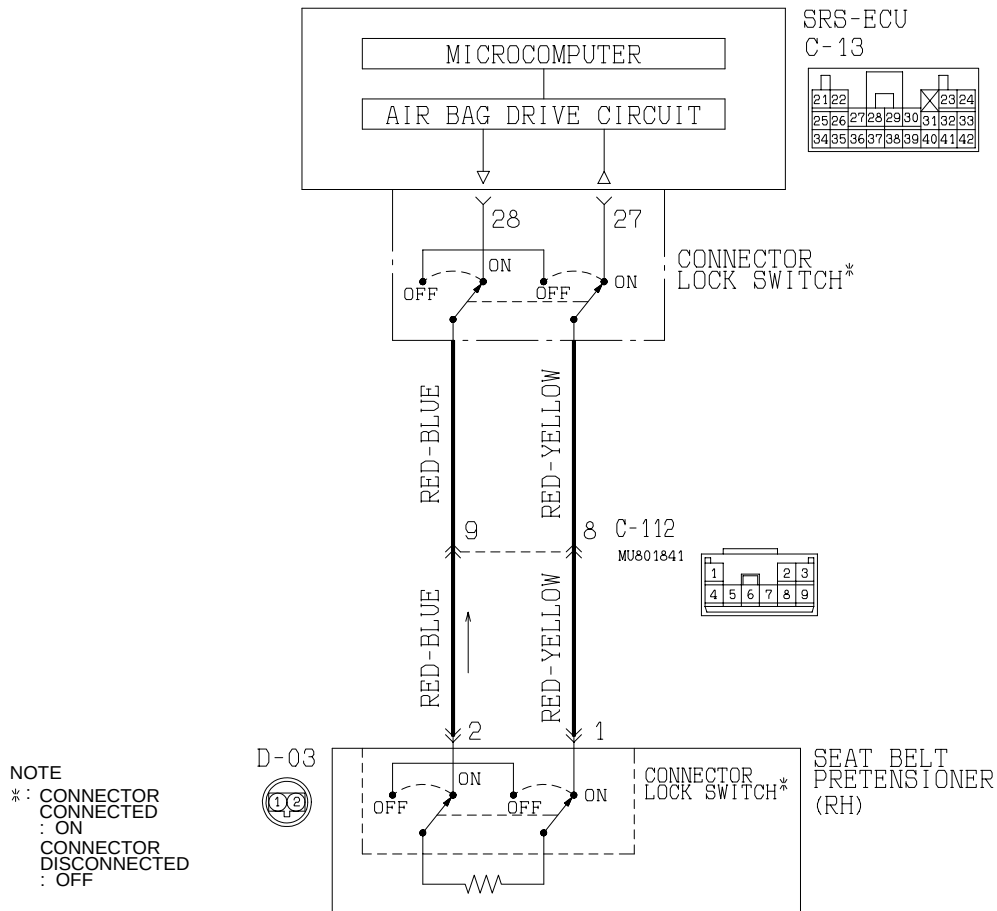
STEP 3. Recheck for diagnostic trouble code.**Q: Is DTC 27 set?**

YES : Return to Step 1.

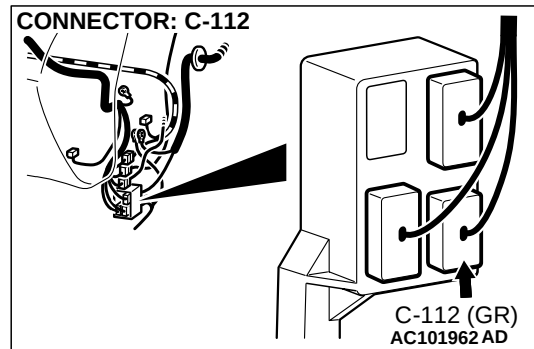
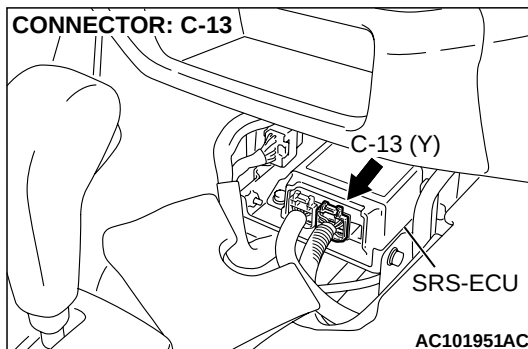
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

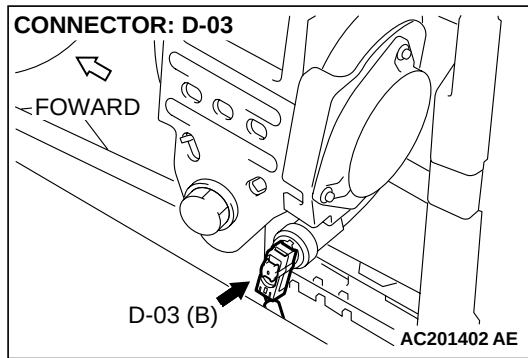
**DTC 28: Passenger's (Front) Seat Belt Pre-Tensioner (Squib) System Fault 1 (Short Circuit between
Terminals of the Squib Circuit)**

Passenger's (Front) Seat Belt Pre-tensioner (Squib)



W3J04M08AA
AC202997AB





CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's seat belt pre-tensioner (squib).

TROUBLESHOOTING HITS

- Improper engaged connector or defective short spring*

- Short circuit between the passenger's seat belt pre-tensioner (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

*NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected). (Refer to [P.52B-2.](#)) Therefore, if connector C-13 or D-03 is damaged or improperly engaged, the short spring may not be released when the connector is connected.*

DIAGNOSIS

Required Special Tools:

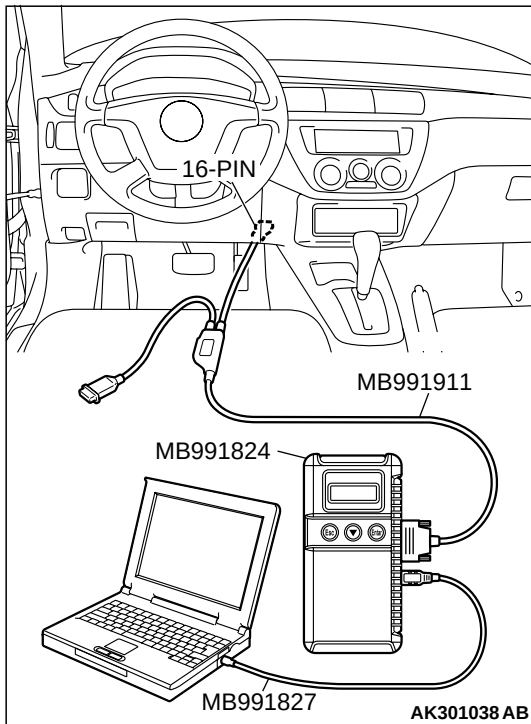
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)

STEP 1. Using scan tool MB991958, read the diagnostic trouble code.

Q: Is DTC 34 set?

YES : Go to Step 2.

NO : Go to Step 3.

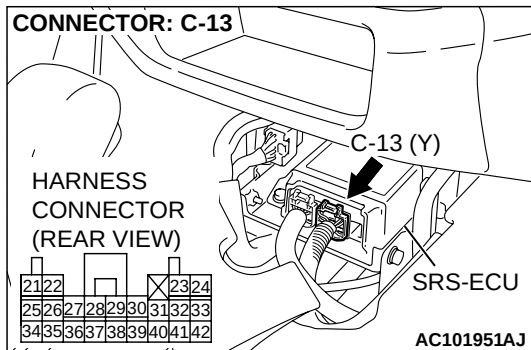


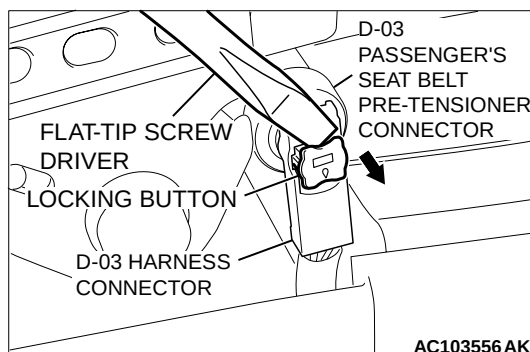
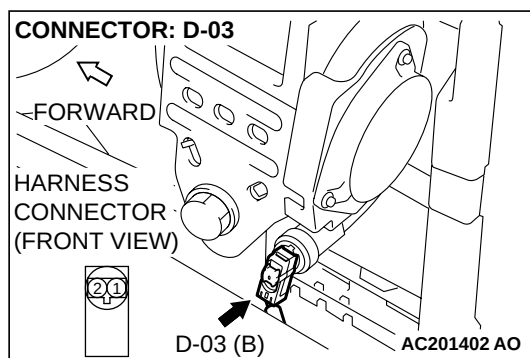
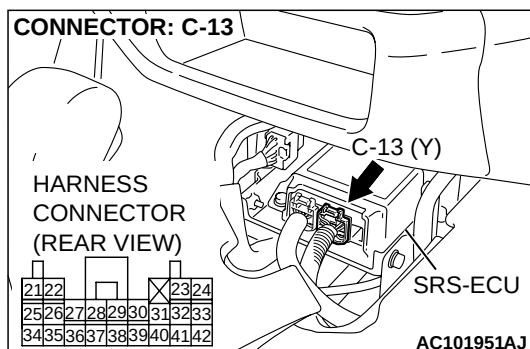
STEP 2. Check the SRS-ECU connector C-13.

Q: Is connector correctly engaged?

YES : Go to Step 3.

NO : Engage the connector correctly. Then go to Step 7.





STEP 3. Check SRS-ECU connector C-13 and passenger's seat belt pre-tensioner connector D-03. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect connectors C-13 and D-03, and then reconnect them.
For connector D-03, use a flat-tipped screwdriver to pull out the locking button at the harness side connector, and then disconnect the connector.
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

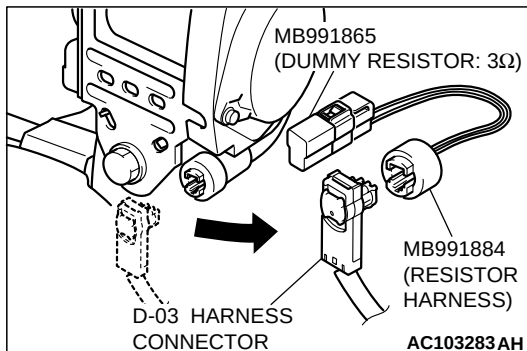
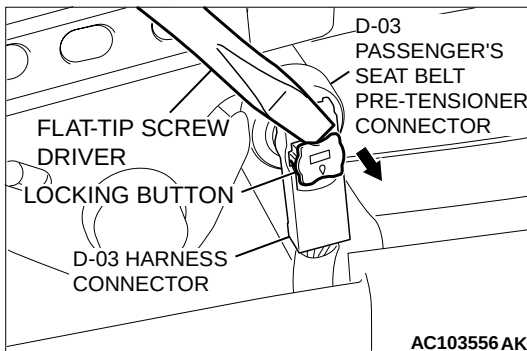
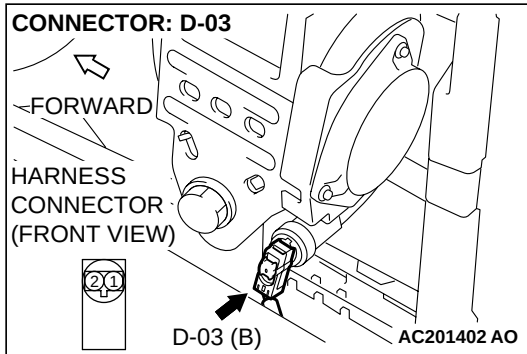
Q: Is DTC 28 set?

YES : Go to Step 4.

NO : The procedure is complete. It is assumed that DTC 28 set as connector C-13 or D-03 was engaged improperly.

STEP 4. Check the passenger's seat belt pre-tensioner.
(Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect driver's seat belt pre-tensioner connector D-03.
Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

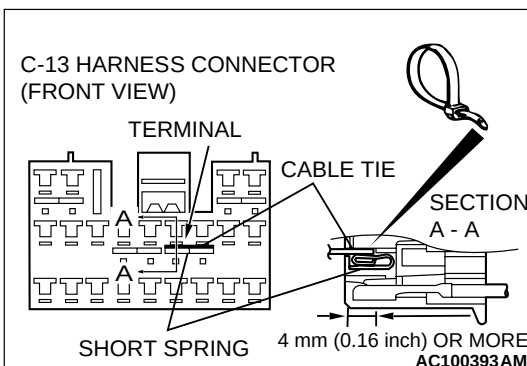
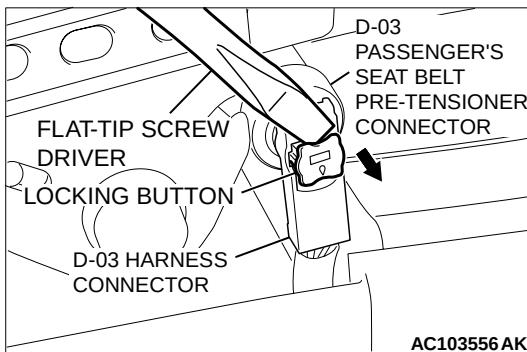
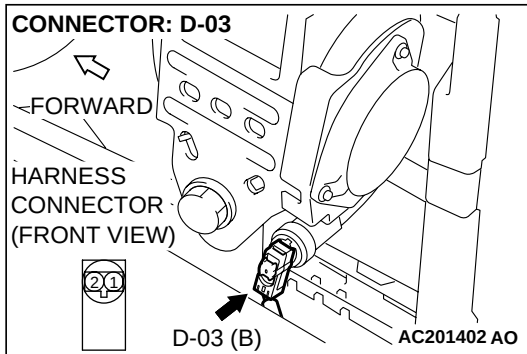
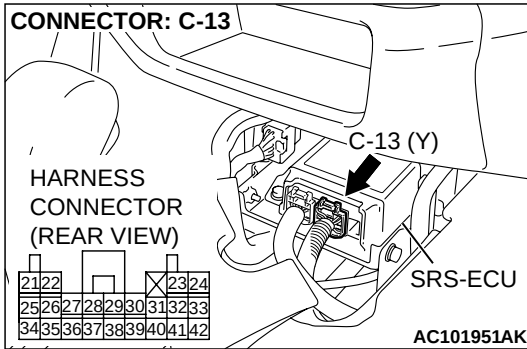


- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-03 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 28 set?

YES : Go to Step 5.

NO : Replace the passenger's seat belt pre-tensioner.
(Refer to [P.52B-218.](#)) Then go to Step 7.



STEP 5. Check the passenger's seat belt pre-tensioner circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

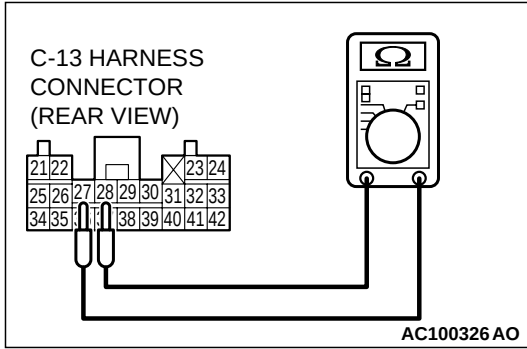
To prevent the air bag from deploying unintentionally, disconnect the passenger's seat belt pre-tensioner connector D-03 to short the squib circuit.

(2) Disconnect driver's seat belt pre-tensioner connector D-03. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

⚠ CAUTION

Insert an insulator such as a cable tie to a depth of 4mm (0.16 inch) or more, otherwise the short spring will not be released.

(3) Insert a cable tie [3 mm (0.12 inch) wide, 0.5 mm (0.02 inch) thick] between terminals 27, 28 and the short spring to release the short spring.



CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

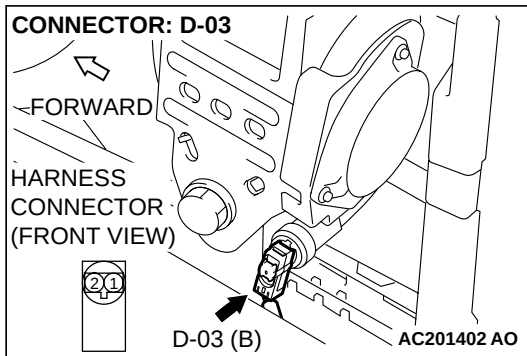
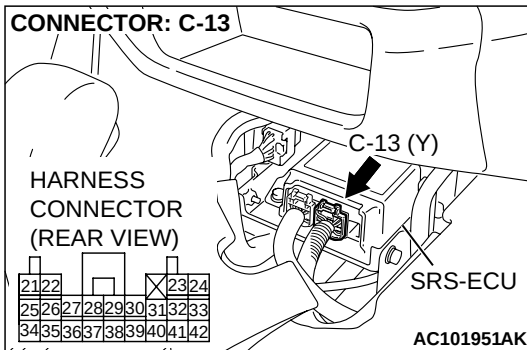
- (4) Check for continuity between C-13 harness connector terminals 27 and 28.
It should be open circuit.

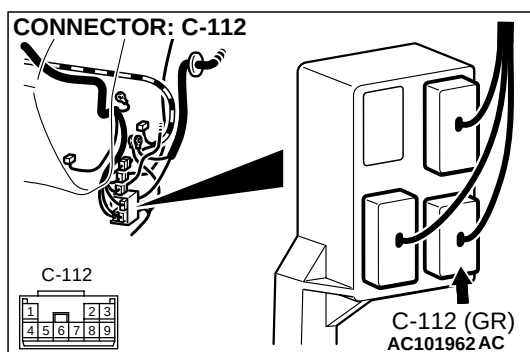
Q: Does continuity exist?

YES : Go to Step 6.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 28 sets, replace the SRS-ECU. (Refer to [P.52B-202](#)). Then go to Step 7.

STEP 6. Check the harness for short circuit between SRS-ECU connector C-13 (terminal No. 27 and 28) and passenger's seat belt pre-tensioner connector D-03 (terminal No.1 and 2).





NOTE: After inspecting intermediate connector C-112, inspect the wiring harness.

If the intermediate connector C-112 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#).

Go to Step 7.

Q: Are harness wires between SRS-ECU connector C-13 (terminal No. 27 and 28) connector and passenger's seat belt pre-tensioner connector D-03 (terminal No.1 and 2) in good condition?

YES : Go to Step 7.

NO : Repair the harness wires between SRS-ECU connector C-13 and passenger's seat belt pre-tensioner connector D-03. Then go to Step 7.

STEP 7. Recheck for diagnostic trouble code.

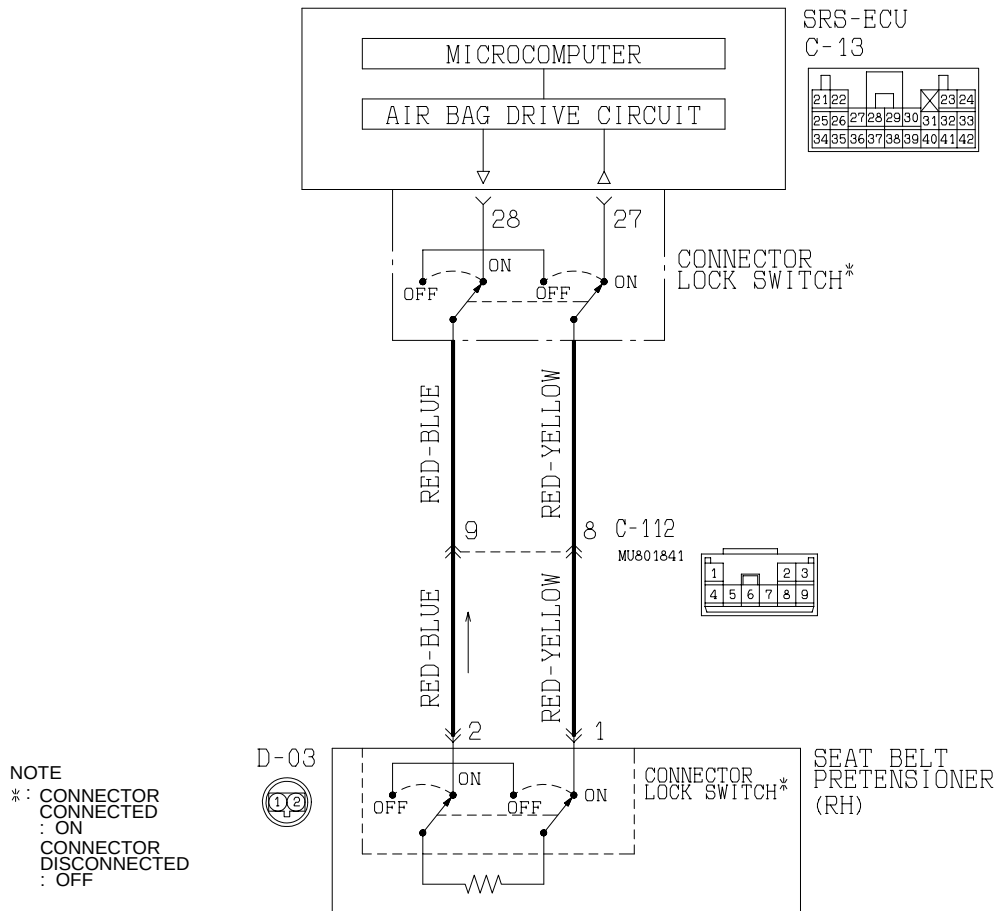
Q: Is DTC 28 set?

YES : Return to Step 1.

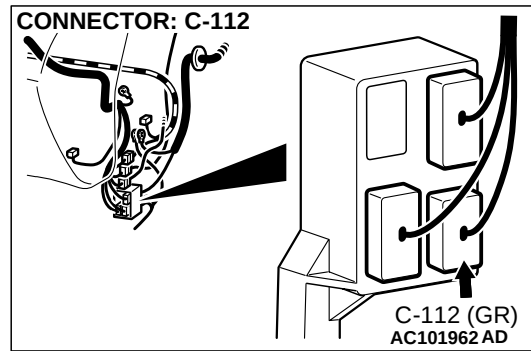
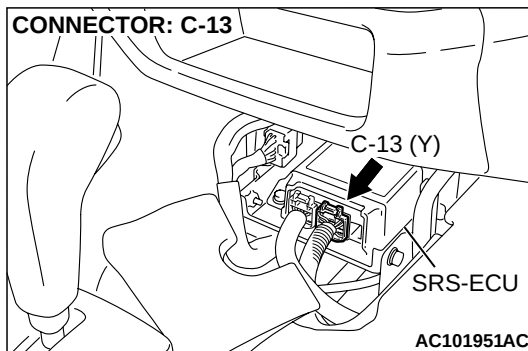
NO : The procedure is complete. (If no malfunctions are not found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

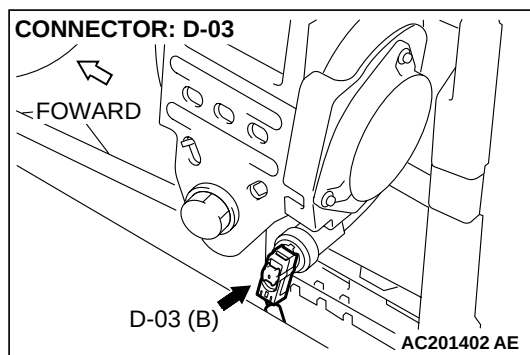
DTC 29: Passenger's (Front) Seat Belt Pre-Tensioner (Squib) System Fault 2 (Open in the Squib Circuit)

Passenger's (Front) Seat Belt Pre-tensioner (Squib)



W3J04M08AA
AC202997AB



**CIRCUIT OPERATION**

The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's seat belt pre-tensioner (squib).

TROUBLESHOOTING HITS

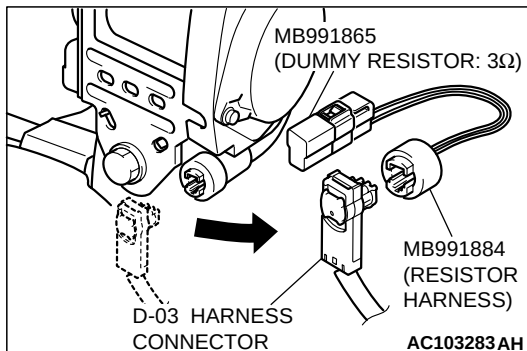
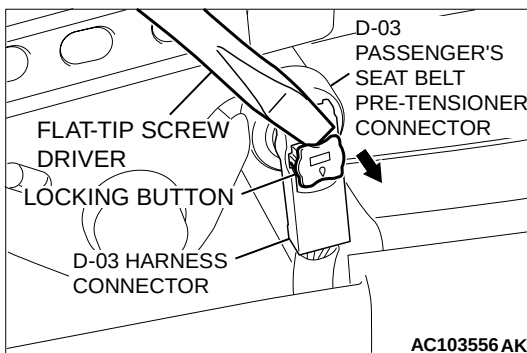
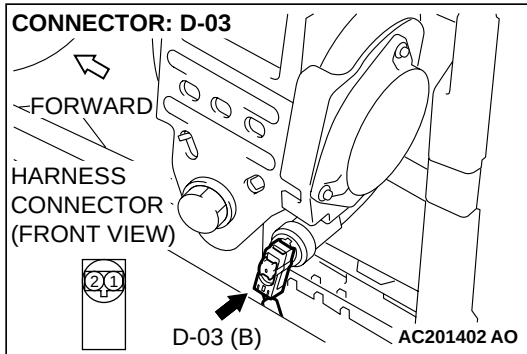
- Open circuit in the passenger's seat belt pre-tensioner (squib) circuit
- Improper connector contact
- Malfunction of the SRS-ECU

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)

STEP 1. Check the passenger's seat belt pre-tensioner.
(Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect driver's seat belt pre-tensioner connector D-03.
Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

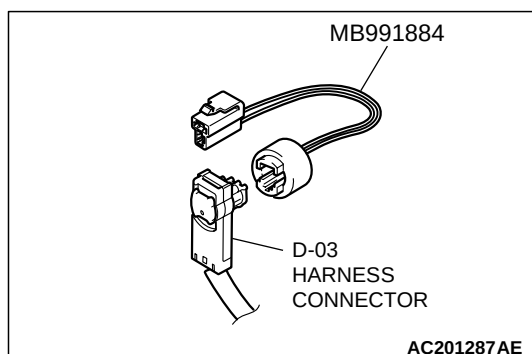
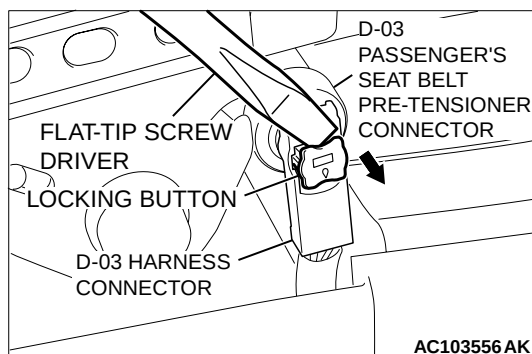
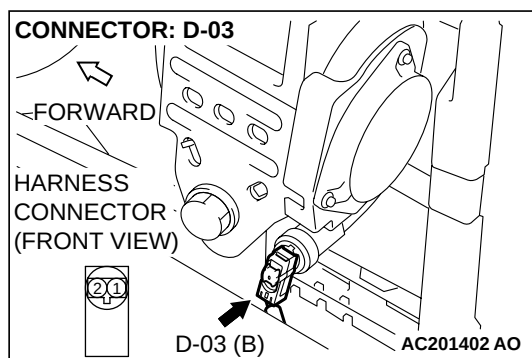
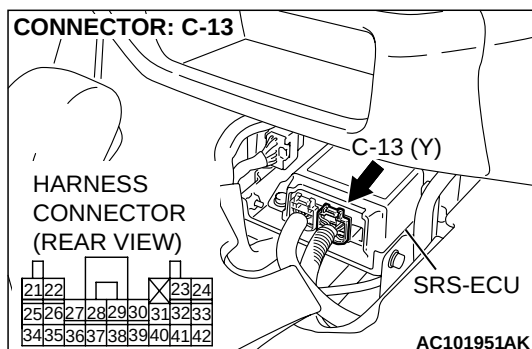


- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-03 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 29 set?

YES : Go to Step 2.

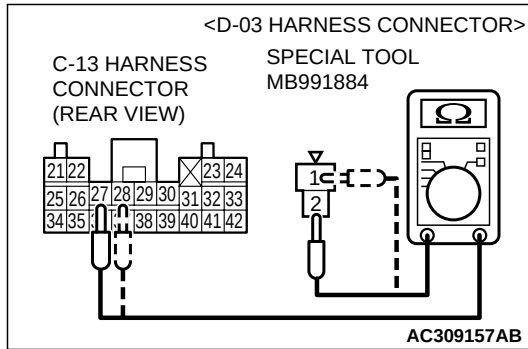
NO : Replace the passenger's seat belt pre-tensioner.
(Refer to [P.52B-218.](#)) Then go to Step 3.



STEP 2. Check the harness for open circuit between SRS-ECU connector C-13 (terminal No.27 and 28) and the passenger's seat belt pre-tensioner connector D-03 (terminal No.1 and 2).

- (1) Disconnect SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-03, and measure at the wiring harness side. For connector D-03, use a flat-tipped screwdriver to pull out the locking button at the harness side connector, and then disconnect the connector.

- (2) Connect D-03 harness connector to special tool MB991884.



CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between the following terminals.

- SRS-ECU connector C-13 (terminal No.27) and special tool (MB991884) connector (terminal No.2)
- SRS-ECU connector C-13 (terminal No.28) and special tool (MB991884) connector (terminal No.1)

It should be less than 2 ohms.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 29 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-13 passenger's seat belt pre-tensioner connector D-03. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

Q: Is DTC 29 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 34: Connector Lock System Detects Connector Unlocked**DTC SET CONDITIONS**

This DTC is set if a poor connection at the SRS-ECU is detected. However, if the vehicle condition returns to normal, DTC number 34 will be automatically erased, and the SRS warning light will go out.

TROUBLESHOOTING HINTS

- Damaged connectors
- Malfunction of the SRS-ECU

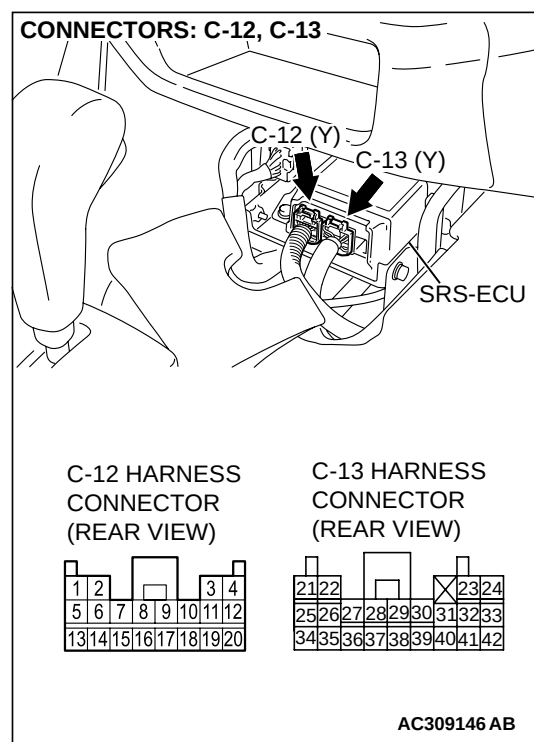
DIAGNOSIS**Required Special Tools:**

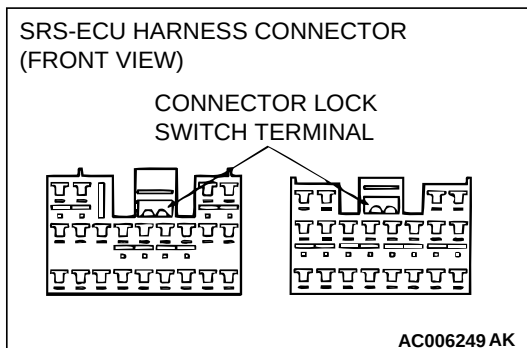
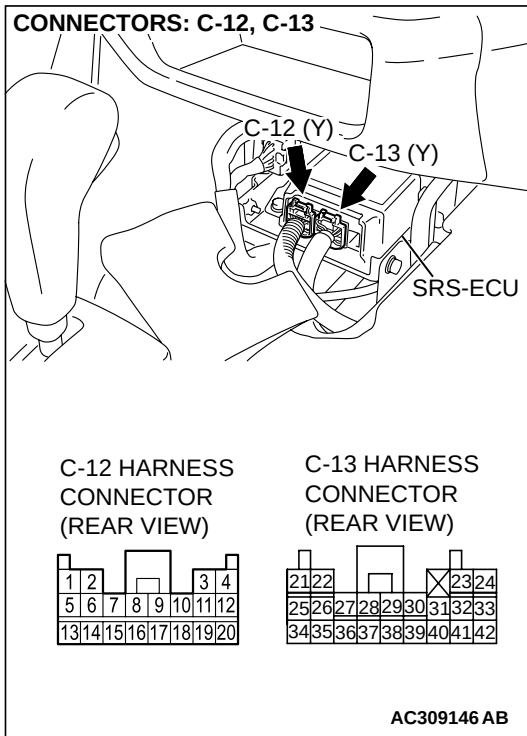
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

STEP 1. Check the SRS-ECU connectors C-12, C-13.**Q: Are connectors correctly engaged?**

YES : Go to Step 2.

NO : Engage the connectors correctly. Then go to Step 3.





STEP 2. Check SRS-ECU connectors C-12, C-13 for damage.

- (1) Disconnect SRS-ECU connectors C-12 and C-13.
- (2) Check the connector lock switch terminal inside the harness side connector for improper contact or deformation.

Q: Are the SRS-ECU connectors C-12, C-13 in good condition?

- YES :** Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 34 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.
- NO :** Repair or replace the SRS-ECU connectors C-12, C-13. (Refer to GROUP 00E, Harness Connector Inspection [P.00E-2.](#)) Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

Q: Is DTC 34 set?

- YES :** There is no action to be taken.
- NO :** The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 35: SRS-ECU Air Bag Condition Monitor Detects Deployed Air Bag

DTC SET CONDITIONS

This DTC is set after the air bag has deployed. If this DTC is set before the air bag has deployed, the cause is probably a malfunction inside the SRS-ECU.

TROUBLESHOOTING HINTS

Malfunction of the SRS-ECU

DIAGNOSIS

Replace the SRS-ECU. (Refer to [P.52B-202](#).)

DTC 39 AIRBAGS DEPLOYED SIMULTANEOUSLY

TROUBLE JUDGMENT

This DTC will be set when the airbags deployed simultaneously. If this DTC is set before the deployment, a failure may have occurred in the SRS-ECU.

POSSIBLE CAUSES

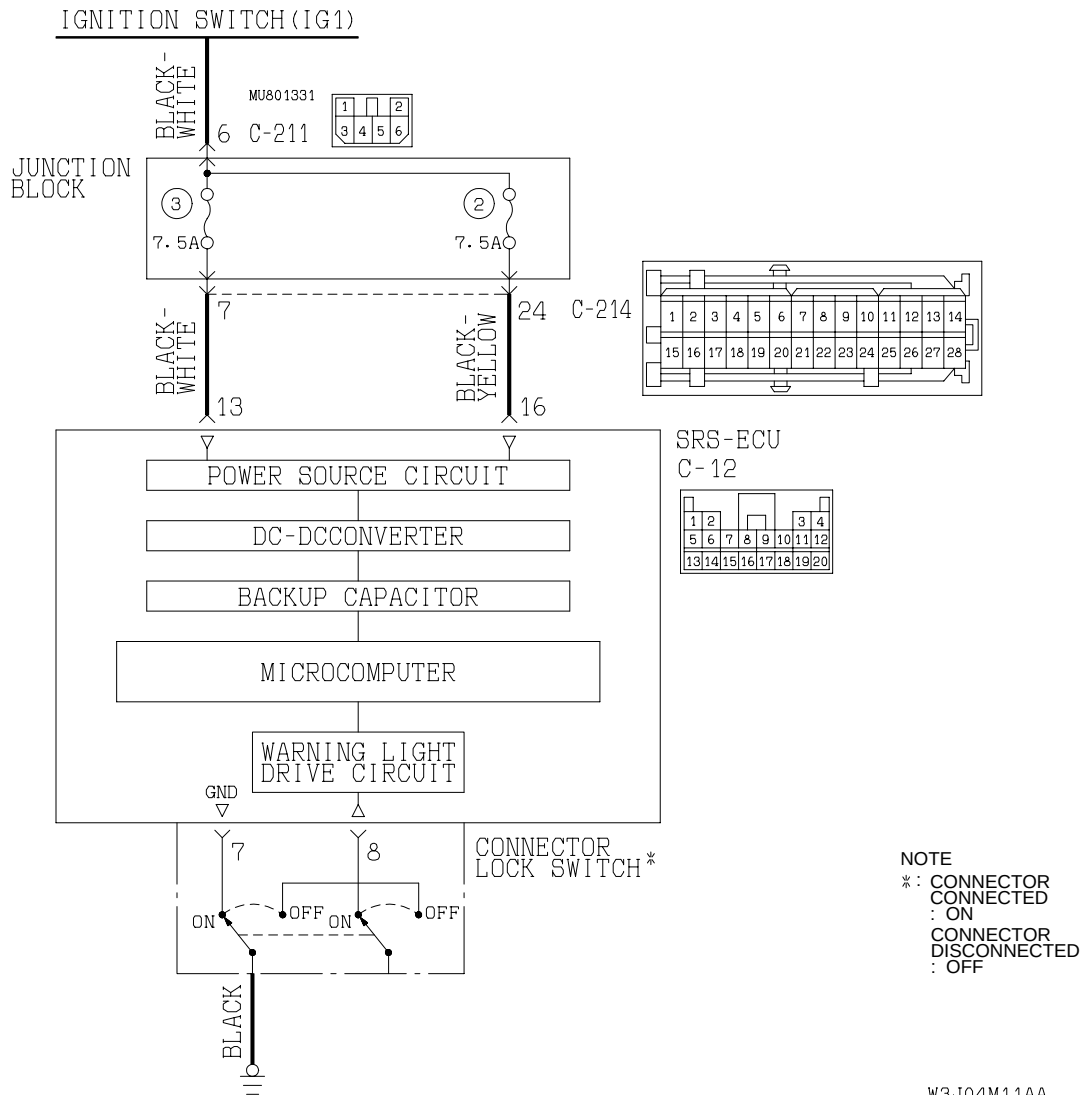
- Malfunction of the SRS-ECU

DIAGNOSIS

Replace the SRS-ECU (Refer to [P.52B-202](#)).

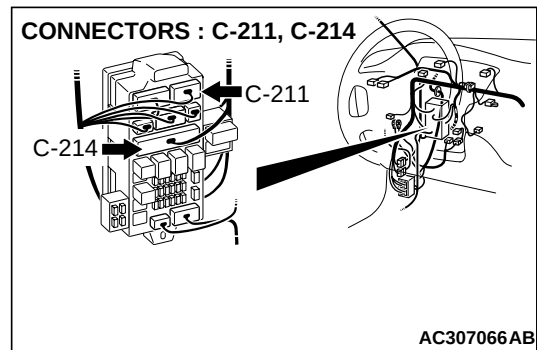
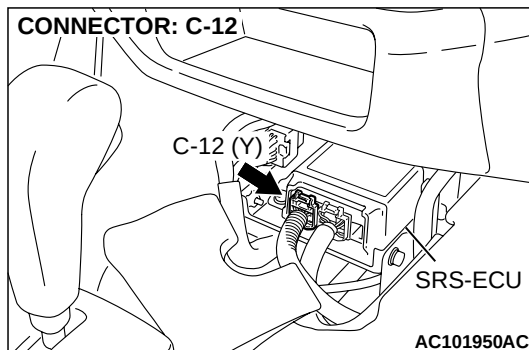
DTC 41: IG1 Power Supply Circuit System (Fuse No.2 Circuit)

IG1 Power Supply Circuit System (Fuse No.2 Circuit)



W3J04M11AA

AC203000 AB



CIRCUIT OPERATION

- The SRS-ECU is powered from the ignition switch (IG1).

- The SRS-ECU power is supplied from two circuits. Even if one circuit is shut off, the air bag can inflate.

DTC SET CONDITIONS

This DTC is set if the voltage between the IG1 terminals (fuse No.2 circuit) and ground is lower than a predetermined value for a continuous period of five second or more. However, if the vehicle condition returns to normal, DTC number 41 will be automatically erased, and the SRS warning light will switch off.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the SRS-ECU

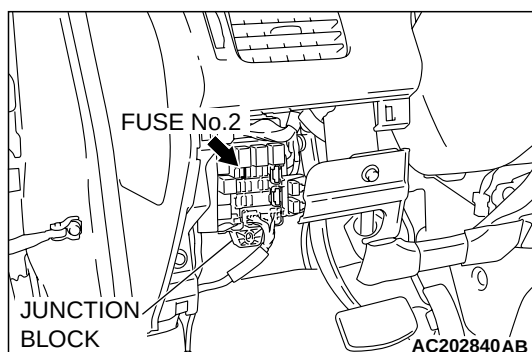
DIAGNOSIS**Required Special Tools:**

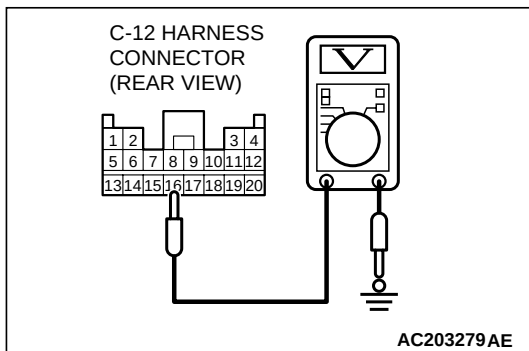
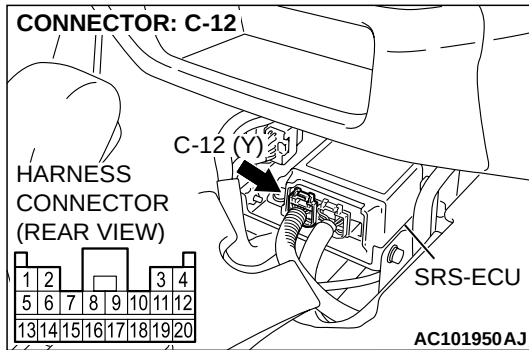
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991223 (MB991222): Harness set (Probe)

STEP 1. Check junction block fuse number 2.**Q: Is the fuse burned out?**

YES : Go to Step 4.

NO : Go to Step 2.





STEP 2. Check the power supply circuit for open circuit at the SRS-ECU connector C-12.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect SRS-ECU connector C-12.
- (3) Connect the negative battery terminal.
- (4) Turn the ignition switch to the "ON" position.

⚠ CAUTION

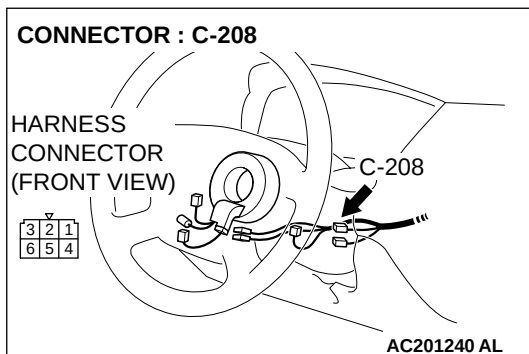
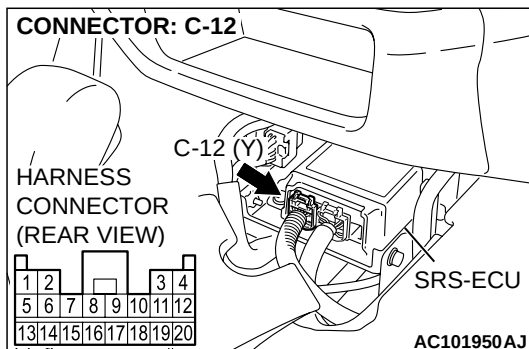
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (5) Measure the voltage between C-12 harness connector terminal 16 and body ground.
Voltage should measure 9 volts or more.

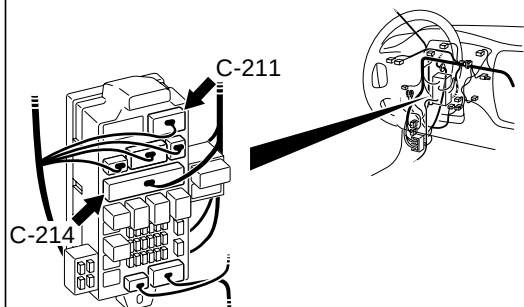
Q: Is the measured voltage within the specified range?

- YES :** Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 41 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 10.
- NO :** Go to Step 3.

STEP 3. Check the harness for open circuit between SRS-ECU connector C-12 (terminal No.16) and the ignition switch connector C-208 (terminal No.2).



CONNECTORS : C-211, C-214

C-211 HARNESS CONNECTOR
(FRONT VIEW)

2		1
6	5	4

C-214 HARNESS CONNECTOR
(FRONT VIEW)

14	13	12	11	10	9	8	7	6	5	4	3	2	1
28	27	26	25	24	23	22	21	20	19	18	17	16	15

AC307076 AL

NOTE: After inspecting intermediate connectors C-214 and C-211, inspect the wiring harness. If intermediate connectors are damaged, repair or replace them. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 10.

Q: Is harness between SRS-ECU connector C-12 (terminal No.16) and the ignition switch connector C-208 (terminal No.2) in good condition?

YES : Go to Step 10.

NO : Repair the harness wire between SRS-ECU connector C-12 and the ignition switch connector C-208. Then go to Step 10.

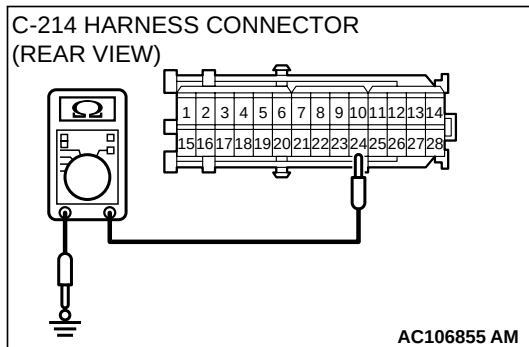
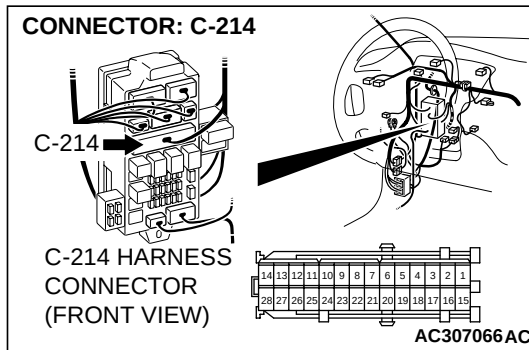
STEP 4. Check a burned-out fuse.

- (1) Replace the fuse.
- (2) Turn the ignition switch to the "ON" position, wait for at least one minute and then turn the ignition switch to the "LOCK" (OFF) position.
- (3) Check the fuse.

Q: Is the fuse in good condition?

YES : Go to Step 10.

NO : Go to Step 5.



STEP 5. Check the SRS-ECU power supply circuit for short circuit to ground at the junction block connector C-214.

- (1) Disconnect junction block connector C-214, and measure at the wiring harness side.

CAUTION

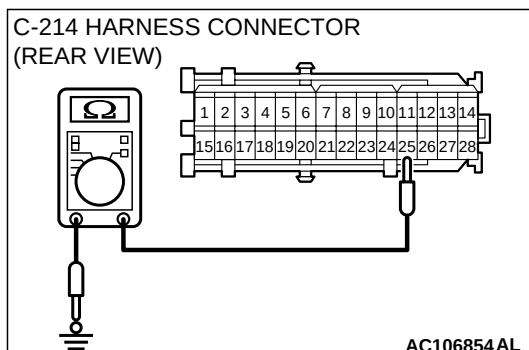
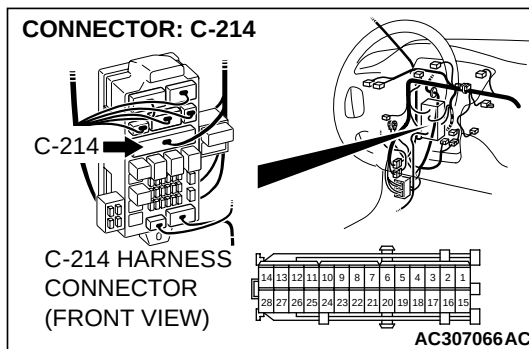
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (2) Check for continuity between terminal 24 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 8.

NO : Go to Step 6.



STEP 6. Check the fuse number 2-related circuit at junction block connector C-205.

- (1) Disconnect junction block connector C-214, and measure at the wiring harness side.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

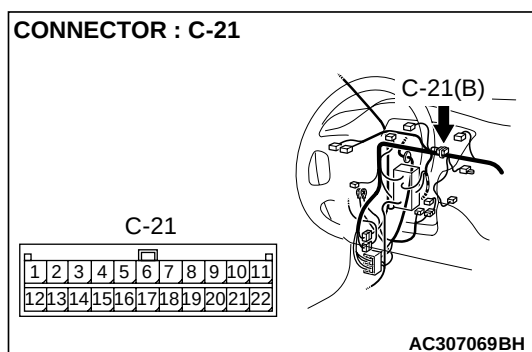
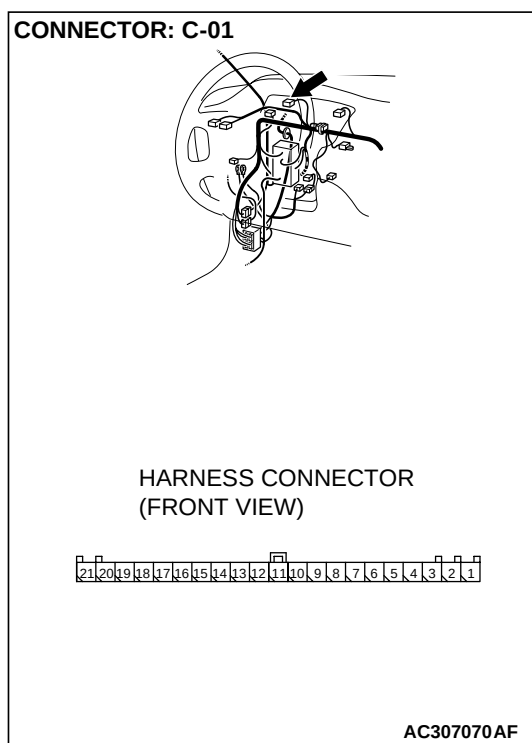
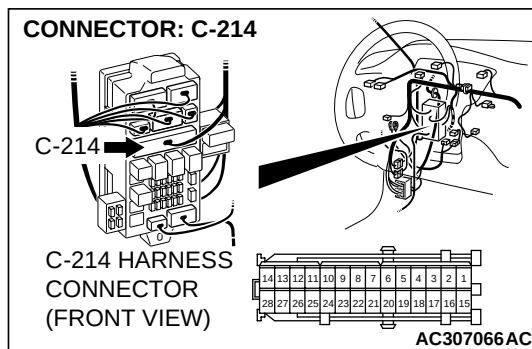
- (2) Check for continuity between C-214 harness connector terminal 25 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 7.

NO : Check the other circuit, which flows through multi-purpose fuse number 2.

STEP 7. Check the harness for short circuit to ground between junction block connector C-214 (terminal No.25) and combination meter connector C-01 (terminal No.9).

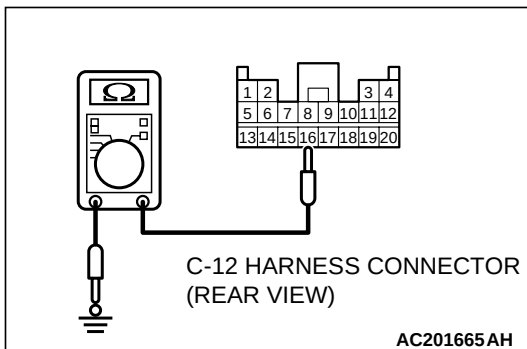
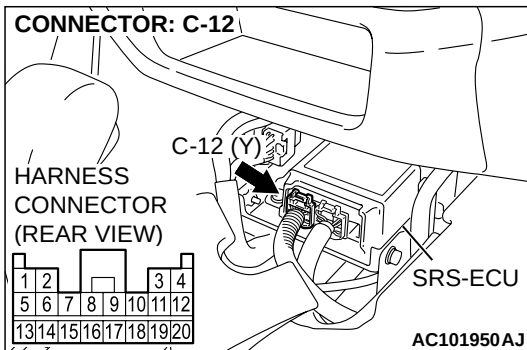


NOTE: After inspecting intermediate connector C-21, inspect the wiring harness. If intermediate connectors are damaged, repair or replace them. Refer to GROUP 00E, Harness Connector Inspection P.00E-2. Then go to Step 10.

Q: Is the harness wire between junction block connector C-214 (terminal No.25) and combination meter connector C-01 (terminal No.9) in good condition?

YES : Go to Step 10.

NO : Repair the harness wire between junction block connector C-214 and combination meter connector C-01. Then go to Step 10.



STEP 8. Check the power supply circuit for short circuit to ground at the SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12, and measure at the wiring harness side.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(2) Check for continuity between terminal 16 and body ground. It should be open circuit.

Q: Is the circuit normal?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 41 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 10.

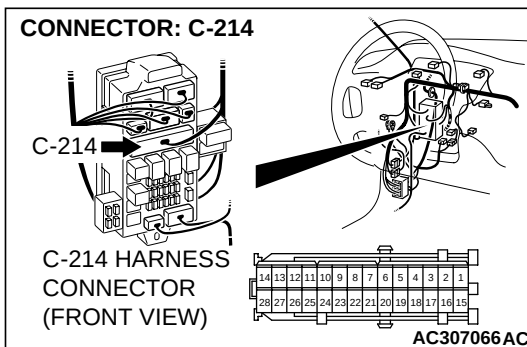
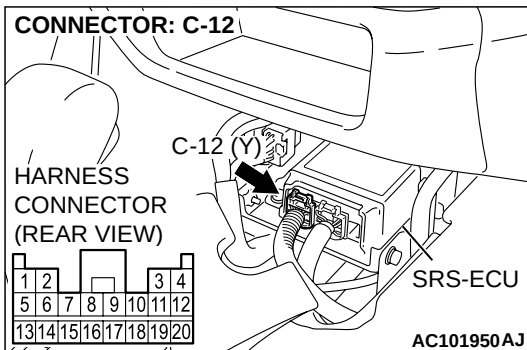
NO : Go to Step 9.

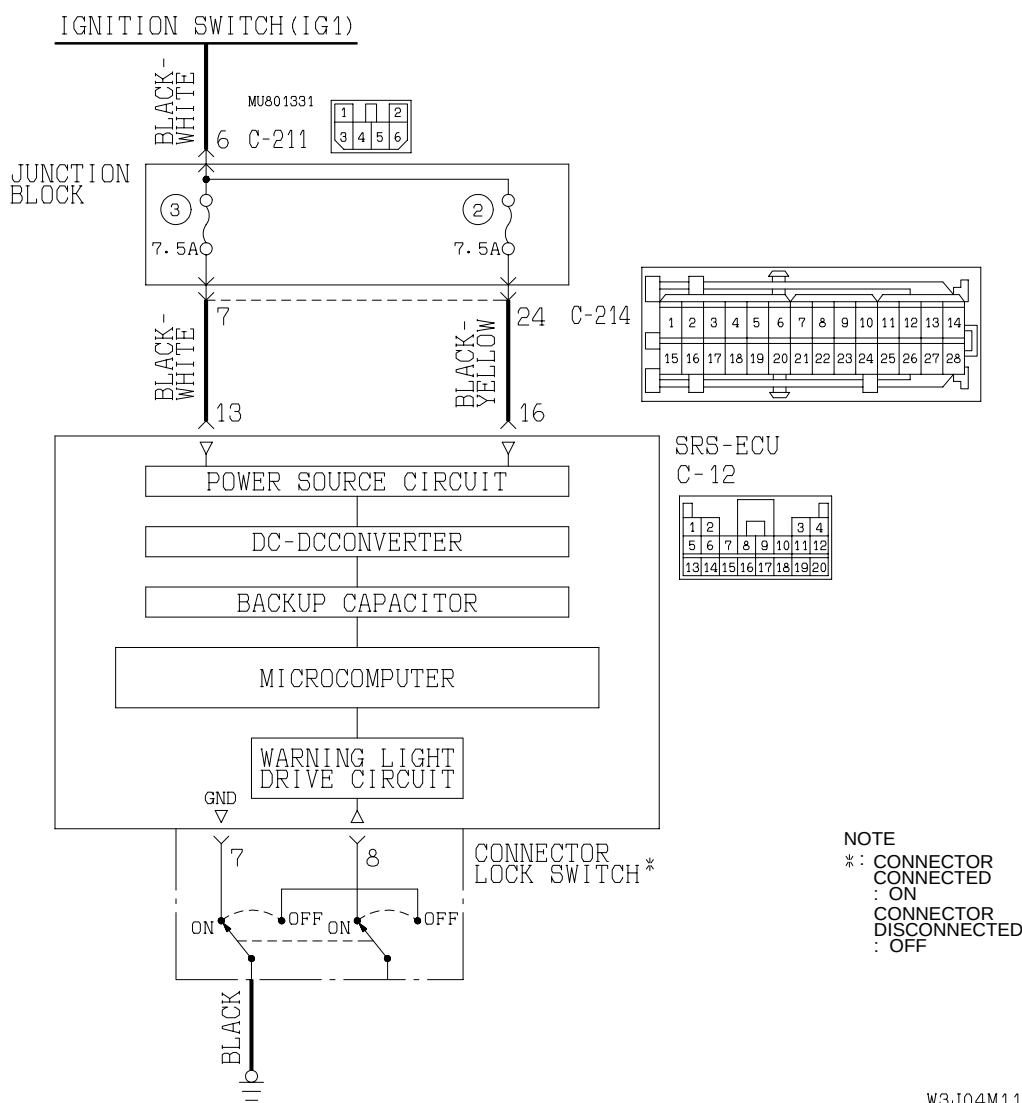
STEP 9. Check the harness for short circuit to ground between SRS-ECU connector C-12 (terminal No.16) and junction block connector C-214 (terminal No.24).

Q: Are harness wire between SRS-ECU connector C-12 (terminal No.16) and junction block connector C-214 (terminal No.24) in good condition?

YES : Go to Step 10.

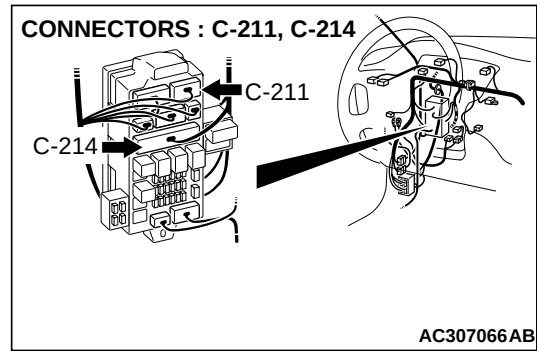
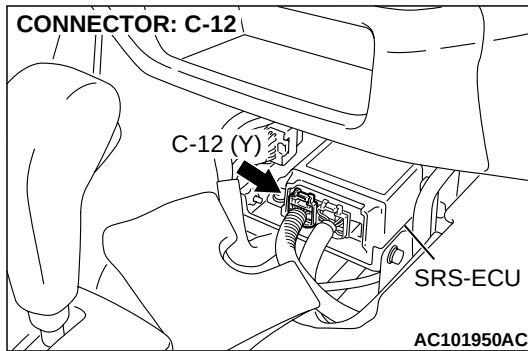
NO : Repair the harness wires between SRS-ECU connector C-12 and junction block connector C-214. Then go to Step 10.



STEP 10. Recheck for diagnostic trouble code.**Q: Is DTC 41 set?****YES :** Return to Step 1.**NO :** The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))**DTC 42: IG1 Power Supply Circuit System (Fuse No.3 Circuit)****IG1 Power Supply Circuit System (Fuse No.3 Circuit)**

W3J04M11AA

AC203000 AC



CIRCUIT OPERATION

- The SRS-ECU is powered from the ignition switch (IG1).
- The SRS-ECU power is supplied from two circuits. Even if one circuit is shut off, the air bag can inflate.

DTC SET CONDITIONS

This DTC is set if the voltage between the IG1 terminals (fuse No.3 circuit) and ground is lower than a predetermined value for a continuous period of five second or more. However, if the vehicle condition returns to normal, DTC number 42 will be automatically erased, and the SRS warning light will switch off.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

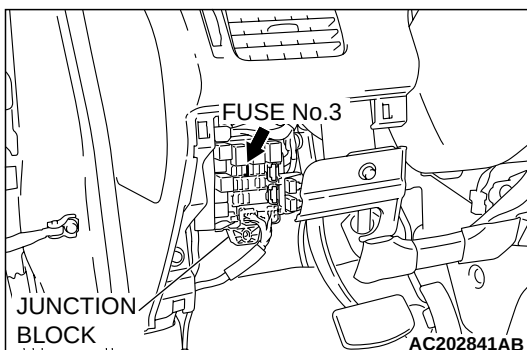
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991223 (MB991222): Harness set (Probe)

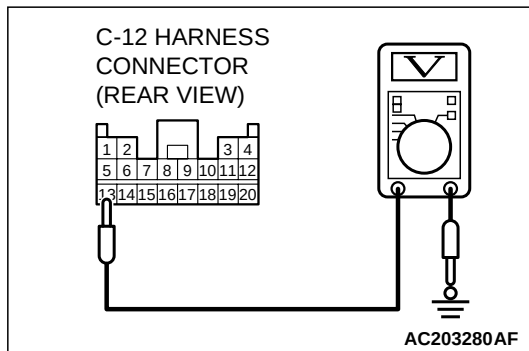
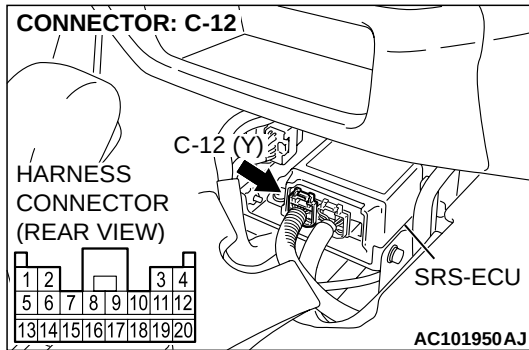
STEP 1. Check junction block fuse number 3.

Q: Is the fuse burned out?

YES : Go to Step 4.

NO : Go to Step 2.





STEP 2. Check the power supply circuit harness for open circuit at the SRS-ECU connector C-12.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect SRS-ECU connector C-12.
- (3) Connect the negative battery terminal.
- (4) Turn the ignition switch to the "ON" position.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

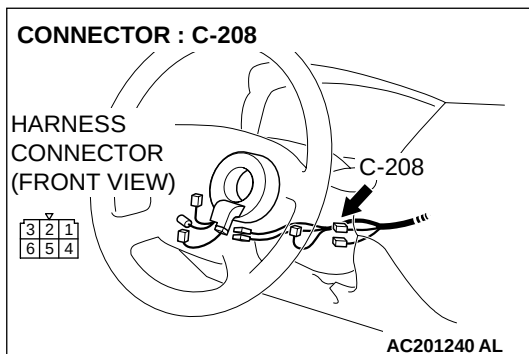
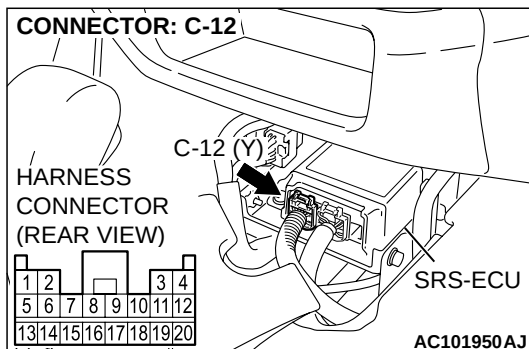
- (5) Measure the voltage between C-12 harness connector terminal 13 and body ground.
Voltage should measure 9 volts or more.

Q: Is the measured voltage within the specified range?

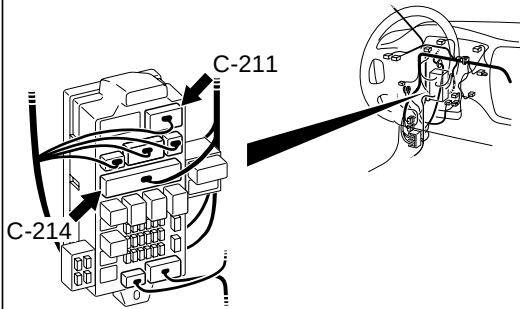
YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 42 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 8.

NO : Go to Step 3.

STEP 3. Check the harness for open circuit between SRS-ECU connector C-12 (terminal No.13) and the ignition switch connector C-208 (terminal No.2).



CONNECTORS : C-211, C-214



**C-211 HARNESS CONNECTOR
(FRONT VIEW)**

2		1
6	5	4

**C-214 HARNESS CONNECTOR
(FRONT VIEW)**

14	13	12	11	10	9	8	7	6	5	4	3	2	1
28	27	26	25	24	23	22	21	20	19	18	17	16	15

AC307076 AL

NOTE: After inspecting intermediate connectors C-214 and C-211, inspect the wiring harness. If intermediate connectors are damaged, repair or replace them. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 8.

Q: Is the harness wire between SRS-ECU connector C-12 (terminal No.13) and the ignition switch connector C-208 (terminal No.2) in good condition?

YES : Go to Step 8.

NO : Repair the harness wire between SRS-ECU connector C-12 and the ignition switch connector C-208. Then go to Step 8.

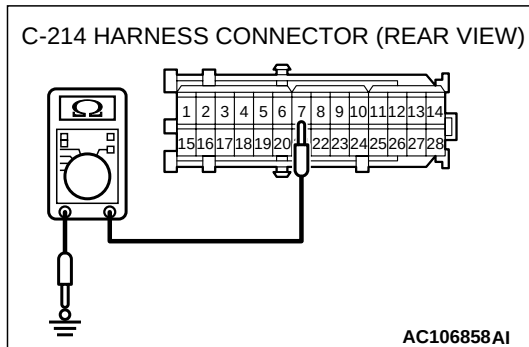
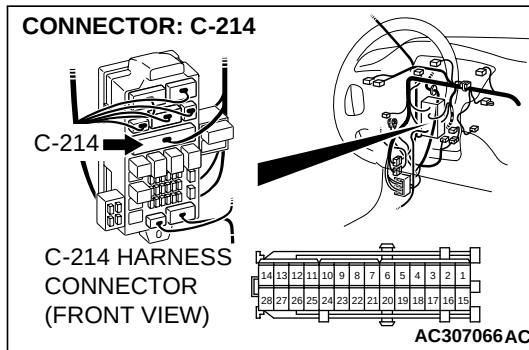
STEP 4. Check a burned-out fuse.

- (1) Replace the fuse.
- (2) Turn the ignition switch to the "ON" position, wait for at least one minute and then turn the ignition switch to the "LOCK" (OFF) position.
- (3) Check the fuse.

Q: Is the fuse in good condition?

YES : Go to Step 8.

NO : Go to Step 5.



STEP 5. Check the SRS-ECU power supply circuit for short circuit to ground at the junction block connector C-214.

- (1) Disconnect junction block connector C-214, and measure at the wiring harness side.

⚠ CAUTION

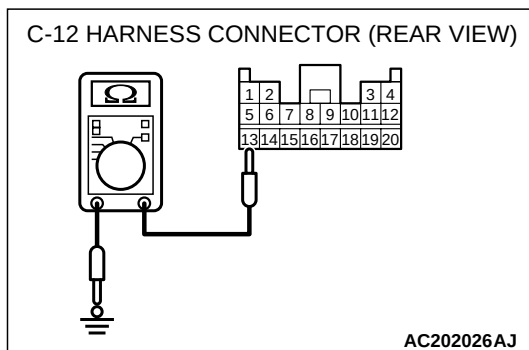
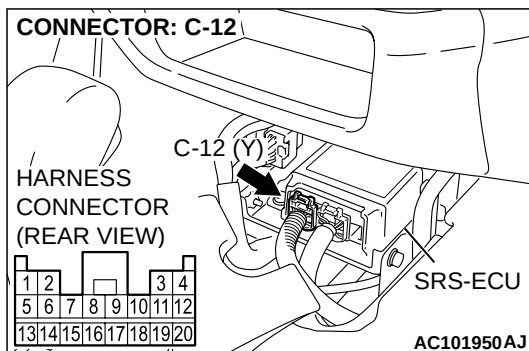
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (2) Check for continuity between C-214 harness connector terminal 7 and body ground.
It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 6.

NO : Check the other circuit, which flows through fuse number 3.



STEP 6. Check the power supply circuit for short circuit to ground at the SRS-ECU connector C-12.

- (1) Disconnect SRS-ECU connector C-12, and measure at the wiring harness side.

⚠ CAUTION

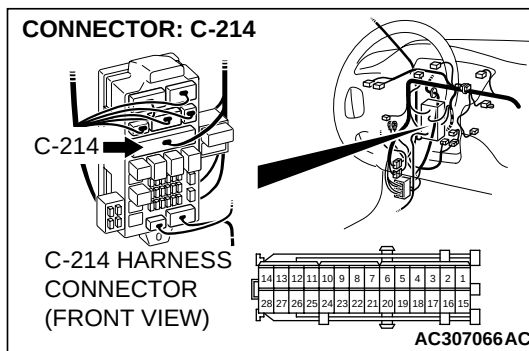
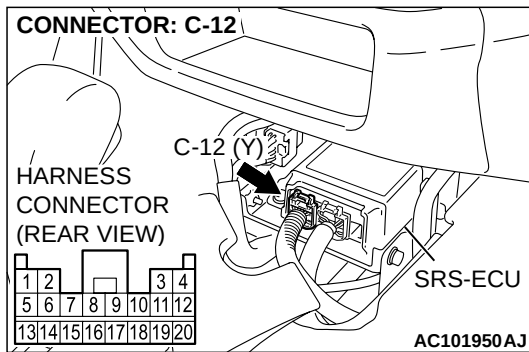
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (2) Check for continuity between C-12 harness connector terminal 13 and body ground.
It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 7.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 42 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 8.



STEP 7. Check the harness for short circuit to ground between SRS-ECU connector C-12 (terminal No.13) and junction block connector C-214 (terminal No.7).

Q: Is the harness wire between SRS-ECU connector C-12 (terminal No.13) and junction block connector C-214 (terminal No.7) in good condition?

YES : Go to Step 8.

NO : Repair the harness wire between SRS-ECU connector C-12 and junction block connector C-214. Then go to Step 8.

STEP 8. Recheck for diagnostic trouble code.

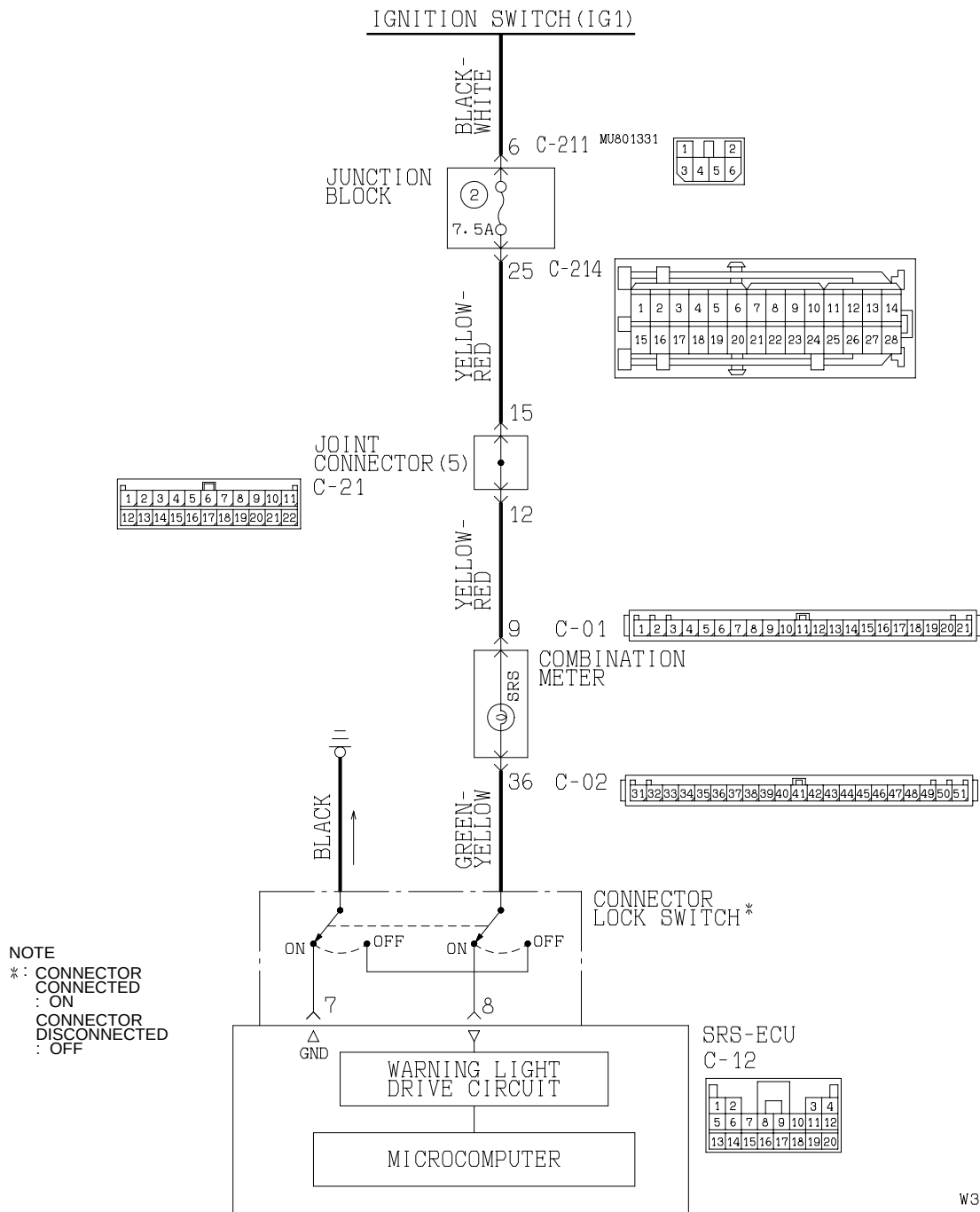
Q: Is DTC 42 set?

YES : Return to Step 1.

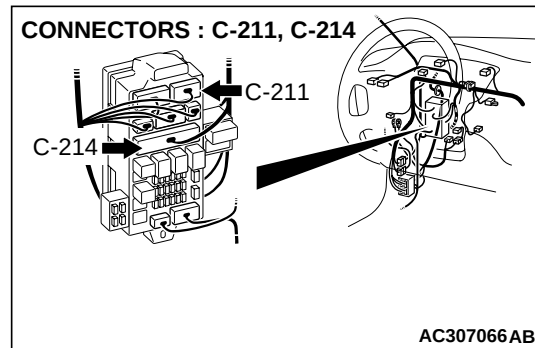
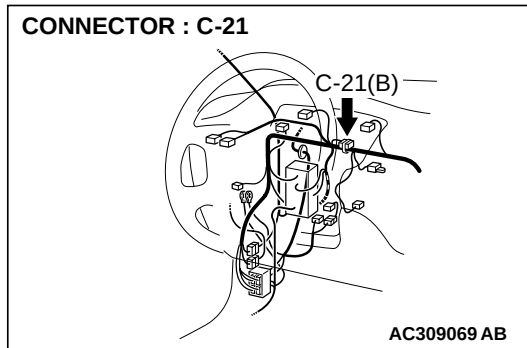
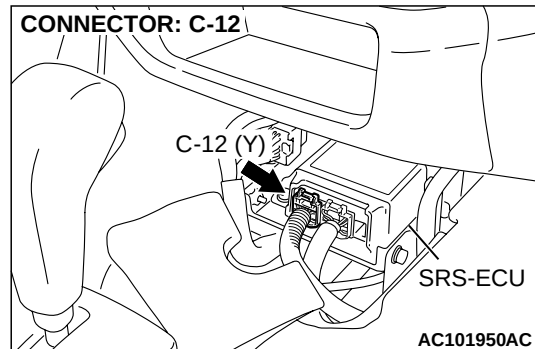
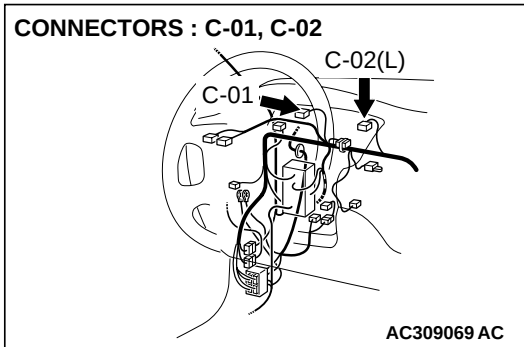
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 43: SRS Warning Light Drive Circuit System Fault 1 (Light does not illuminate.)

SRS Warning Light Drive Circuit



W3J04M10AA
AC202999 AB



CIRCUIT OPERATION

- Power for the SRS warning light is supplied from the ignition switch (IG1).
- The SRS warning light illuminates when the ignition switch is turned to the "ON" position and goes out after approximately seven seconds if there is not a malfunction in the SRS system.

DTC SET CONDITIONS

This DTC is set when an open circuit is detected for a continuous period of five seconds while the SRS-ECU is monitoring the SRS warning light and the light is OFF. (transistor OFF.) However, if the vehicle condition returns to normal, DTC 43 will be automatically erased, and the SRS warning light will go out.

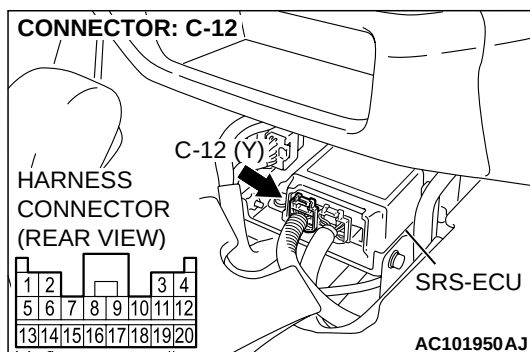
TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Blown bulb
- Malfunction of the SRS-ECU
- Malfunction of the combination meter

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

**STEP 1. Check the SRS warning light.**

- (1) Connect the negative battery terminal.
- (2) Disconnect the SRS-ECU connector C-12.
- (3) Turn the ignition switch to the "ON" position.

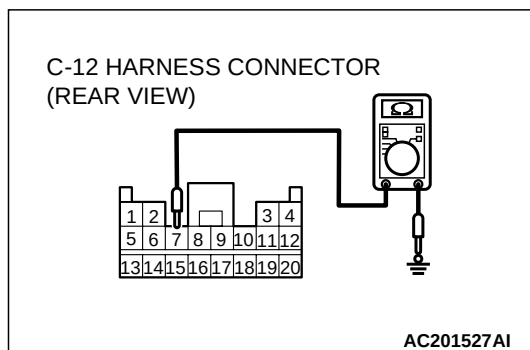
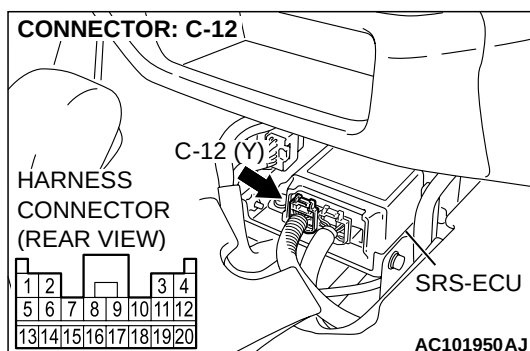
Q: Does the warning light illuminate?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 43 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 6.

NO : Go to Step 2.

STEP 2. Check the ground line at the SRS-ECU connector C-12.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect SRS-ECU connector C-12.

**CAUTION**

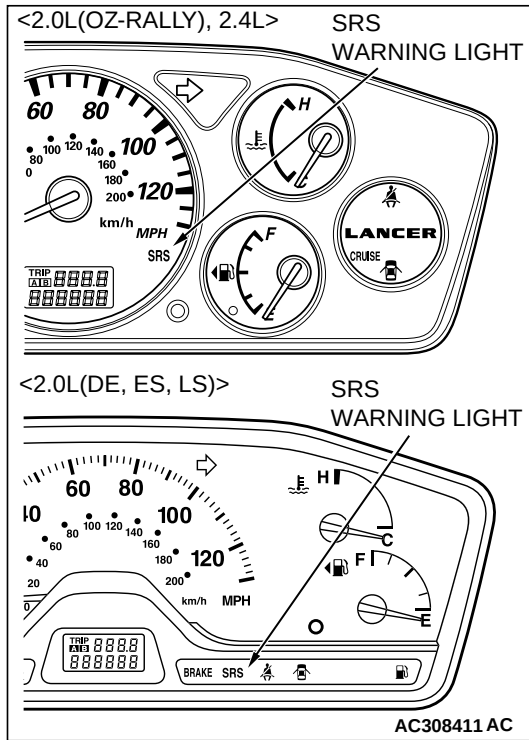
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (3) Check for continuity between C-12 harness connector terminal 7 and ground.
It should be less than 2 ohms.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Go to Step 5.



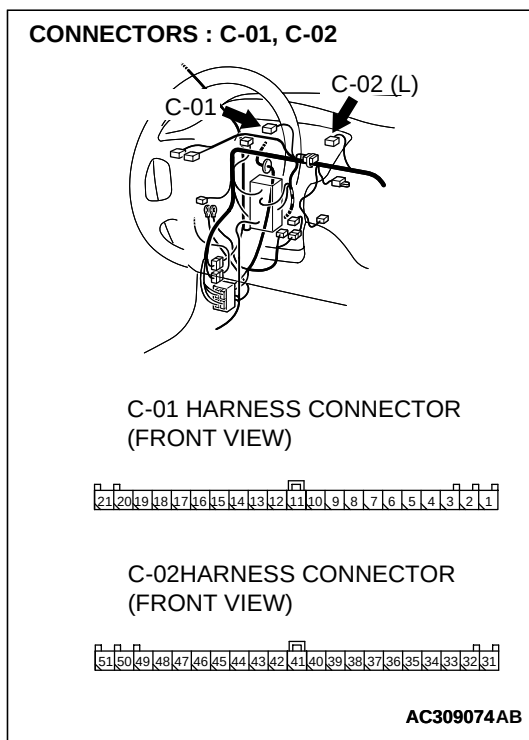
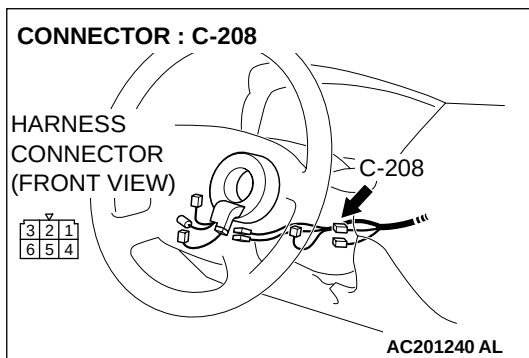
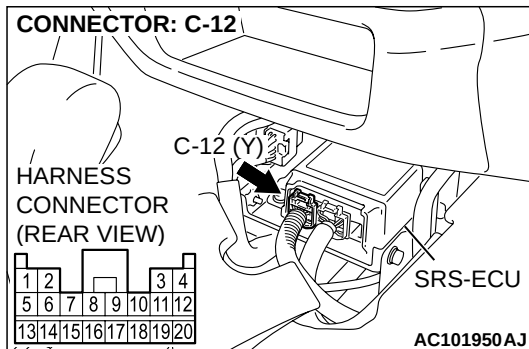
STEP 3. Check the SRS warning light bulb.

Q: Has the SRS warning light bulb blown?

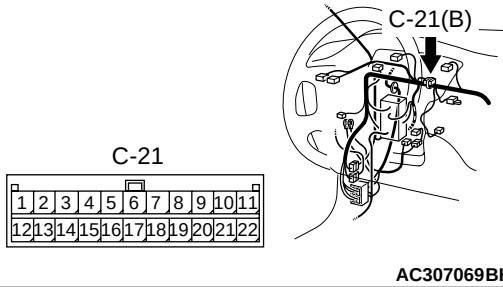
YES : Replace the SRS warning light bulb. Then go to Step 6.

NO : Go to Step 4.

STEP 4. Check the harness for open circuit between ignition switch connector C-208 (terminal No.2) and combination meter connector C-01 (terminal No.9), and between combination meter connector C-02 (terminal No.36) and SRS-ECU connector C-12 (terminal No.8).



CONNECTOR : C-21



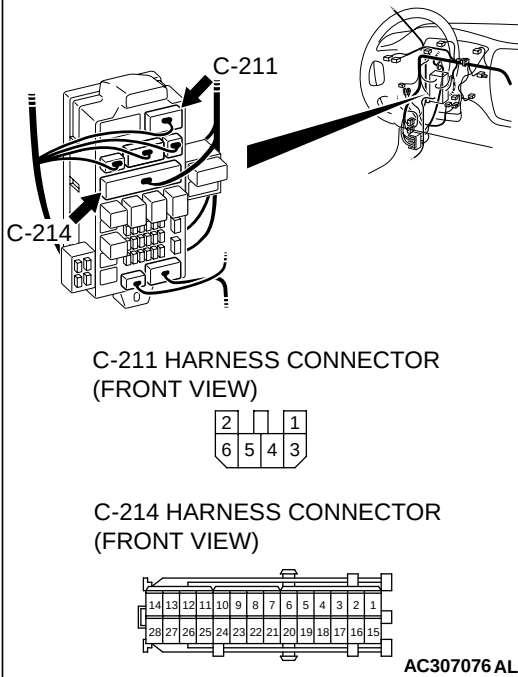
NOTE: After inspecting intermediate connectors C-02, C-01, C-21, C-214, C-211 inspect the wiring harness. If intermediate connectors C-02, C-01, C-21, C-214, C-211 are damaged, repair or replace them. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 5.

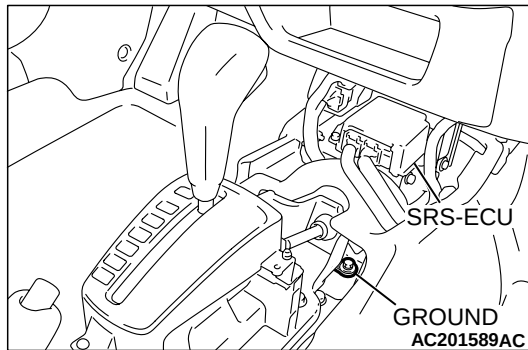
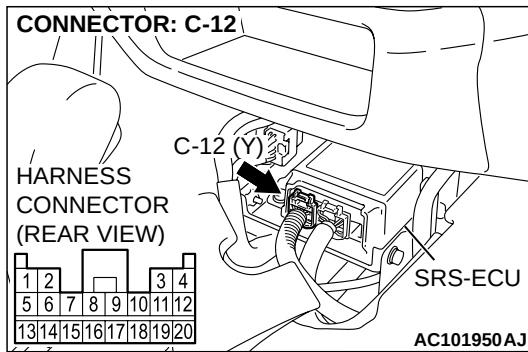
Q: Are the harness wires between SRS-ECU connector C-12 and the ignition switch connector C-208 in good condition?

YES : Replace the combination meter. (Refer to GROUP 54A, Combination Meters Assembly [P.54A-46](#).) Then go to Step 6.

NO : Repair the harness wires between SRS-ECU connector C-12 and the ignition switch connector C-208. Then go to Step 6.

CONNECTORS : C-211, C-214





STEP 5. Check the harness for open circuit between SRS-ECU connector C-12 (terminal No.7) and ground.
Q: Is the harness wire between SRS-ECU connector C-12 (terminal No.7) and ground in good condition?

YES : Go to Step 6.

NO : Repair the harness wires between SRS-ECU connector C-12 and ground. Then go to Step 6.

STEP 6. Recheck for diagnostic trouble code.

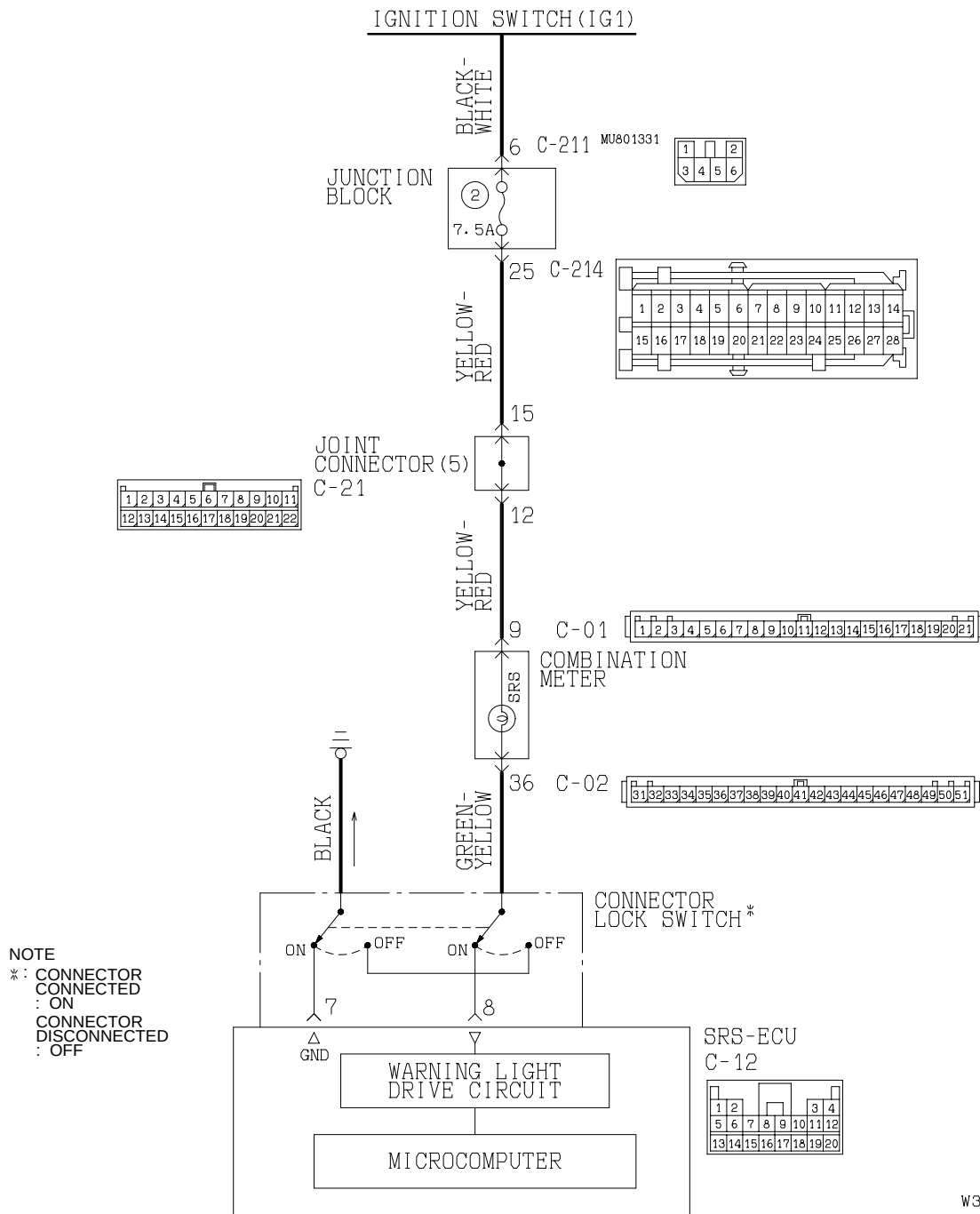
Q: Is DTC 43 set?

YES : Return to Step 1.

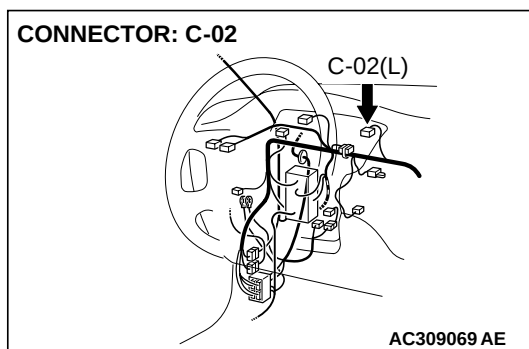
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 43: SRS Warning Light Drive Circuit System Fault 1 (Light does not Switch Off.)

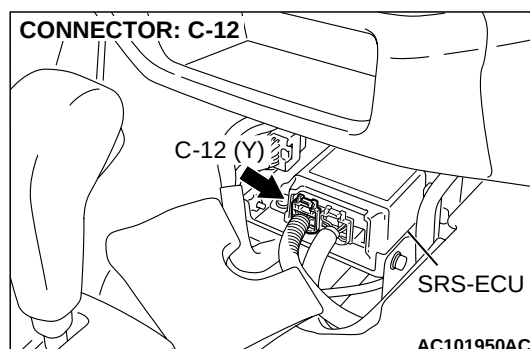
SRS Warning Light Drive Circuit



W3J04M10AA
AC202999 AB

**CIRCUIT OPERATION**

- Power for the SRS warning light is supplied from the ignition switch (IG1).
- The SRS warning light illuminates when the ignition switch is turned to the "ON" position and goes out after approximately seven seconds if there is not a malfunction in the SRS system.

**DTC SET CONDITIONS**

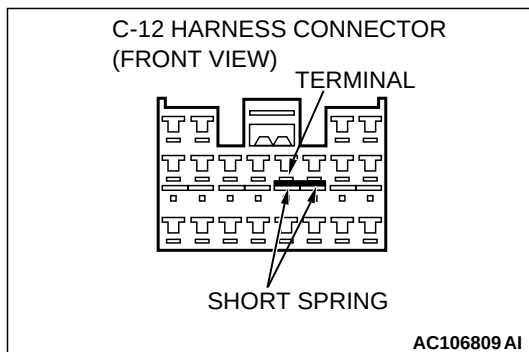
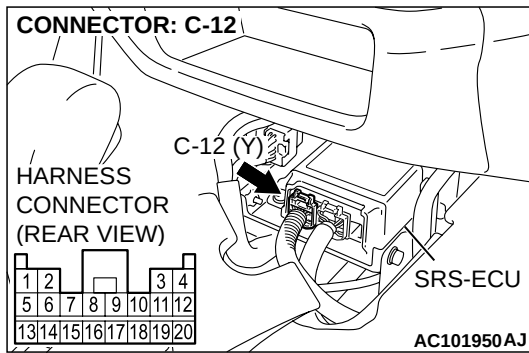
This DTC is set when a short to ground occurs in the harness between the SRS warning light and SRS-ECU while SRS-ECU is monitoring the light and the light is ON. However, if the vehicle condition returns to normal, DTC 43 will be automatically erased, and the SRS warning light will go out.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the SRS-ECU
- Malfunction of the combination meter

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)



STEP 1. Check SRS-ECU connector C-12 for damage.

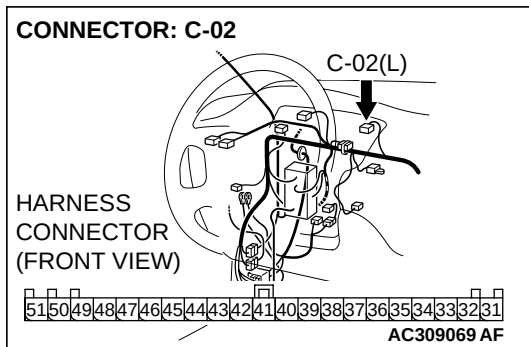
(1) Disconnect SRS-ECU connector C-12.

(2) Check the short spring for warning light inside the harness connector for improper contact or deformation.

Q: Is SRS-ECU connector C-12 in good condition?

YES : Then go to Step 2.

NO : Repair or replace the SRS-ECU connector C-12.
(Refer to [P.52B-202.](#)) Then go to Step 4.



STEP 2. Check the SRS warning light.

(1) Disconnect the negative battery cable.

(2) Disconnect the combination meter connector C-02.

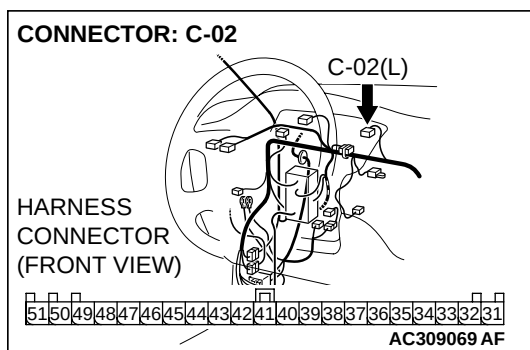
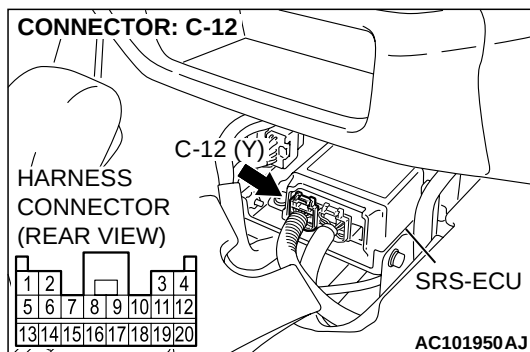
(3) Connect the negative battery cable.

(4) Turn the ignition switch to the "ON" position.

Q: Does the SRS warning light go out?

YES : Go to Step 3.

NO : Replace the combination meter. (Refer to GROUP 54A, Combination Meter Assembly [P.54A-46.](#)) Then go to Step 4.



STEP 3. Check the harness for short circuit to ground between SRS-ECU connector C-12 (terminal No.8) and combination meter connector C-02 (terminal No.36).

Q: Is the harness wire between the SRS-ECU connector C-12 (terminal No.8) and combination meter connector C-02 (terminal No.36) in good condition?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 43 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

NO : Repair the harness wire between SRS-ECU connector C-12 and combination meter connector C-02. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

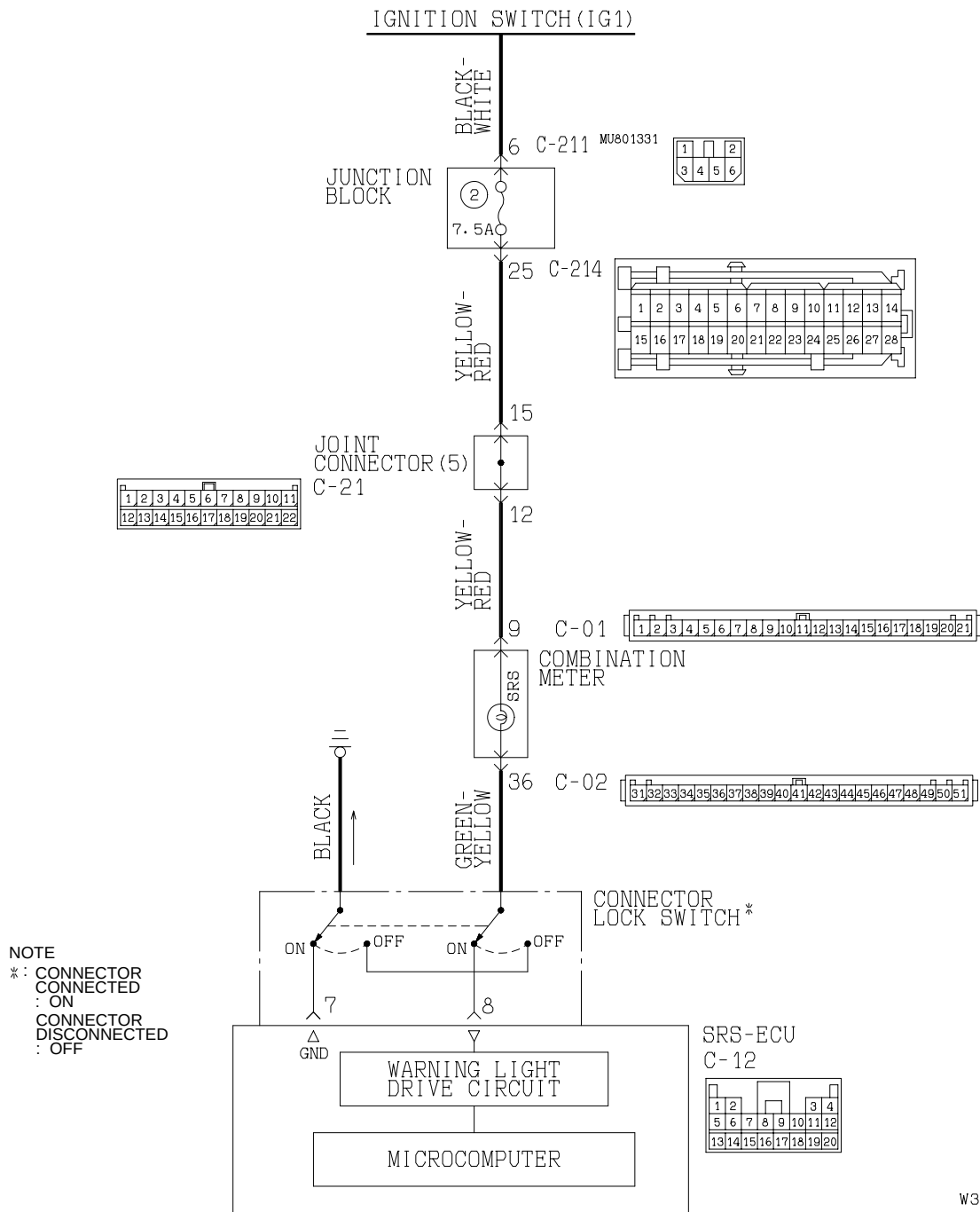
Q: Is DTC 43 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 44: SRS Warning Light Drive Circuit System Fault 2

SRS Warning Light Drive Circuit



W3J04M10AA
AC202999 AB

CIRCUIT OPERATION

- Power for the SRS warning light is supplied from the ignition switch (IG1).

- The SRS warning light illuminates when the ignition switch is turned to the "ON" position and goes out after approximately seven seconds if there is not a malfunction in the SRS system.

DTC SET CONDITIONS

- This DTC is set under one of the following cases while the SRS-ECU is monitoring the warning light drive circuit:
 - When a short circuit occurs in the warning light drive circuit.
 - When a malfunction is detected in the output transistor inside the SRS-ECU.

However, if the vehicle condition returns to normal, DTC 44 will be automatically erased, and the SRS warning light will go out.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the SRS-ECU

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

STEP 1. Check the SRS warning light drive circuit system.
Refer to [P.52B-21](#).

Q: Is the SRS warning light drive circuit normal?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 43 sets, replace the SRS-ECU. (Refer to [P.52B-202](#).) Then go to Step 2.

NO : Replace the combination meter. (Refer to GROUP 54A, Combination Meter Assembly [P.54A-46](#).) Then go to Step 2.

STEP 2. Recheck for diagnostic trouble code.

Q: Is DTC 44 set?

YES : There is no action to be taken.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

DTC 46 IMPROPER INSTALLATION OF SRS-ECU

TROUBLE JUDGMENT

This DTC is set when an SRS-ECU, designed only for the driver's air bag, is installed on the vehicle, which has both driver's and passenger's air bags.

TROUBLESHOOTING HINTS

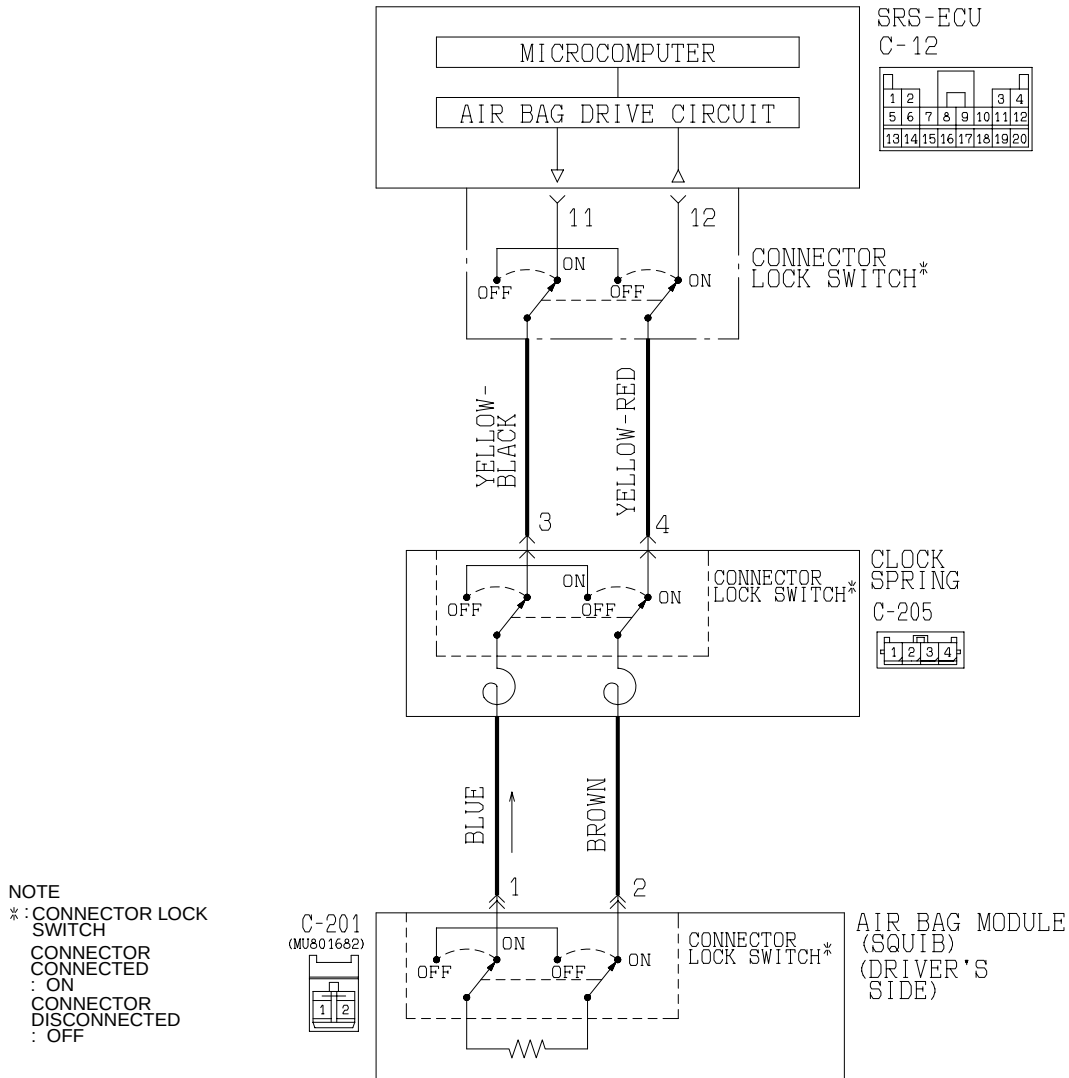
- Malfunction of the SRS-ECU

DIAGNOSIS

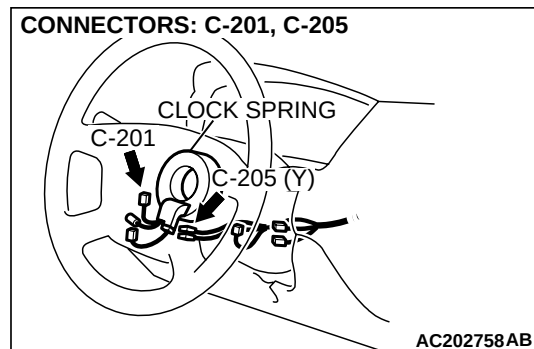
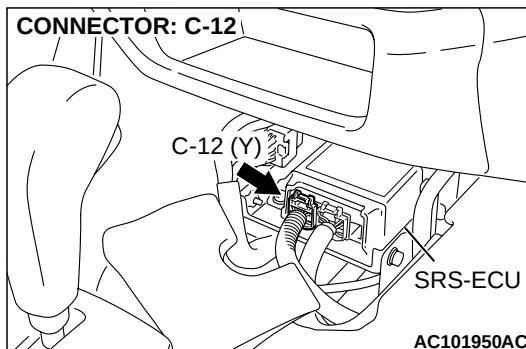
Replace the SRS-ECU (Refer to [P.52B-202](#)).

DTC 61: Driver's Air Bag Module (Squib) System Fault for Power Supply Circuit (Short-Circuited to Power Supply)

Driver's Air Bag Module (Squib) Circuit



W3J04M06AA
AC202995AB



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's air bag module (squib). However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

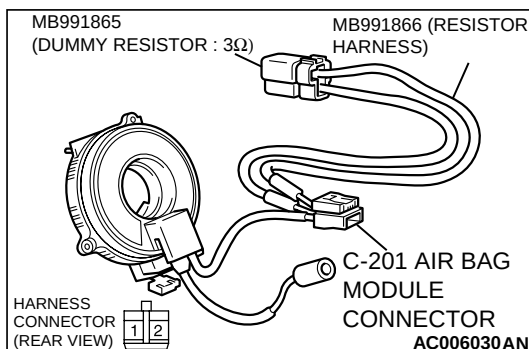
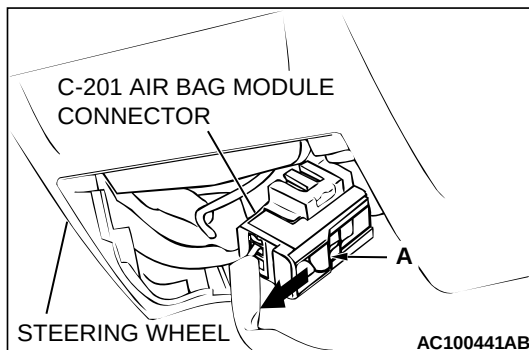
- Malfunction of the clock spring
- Damaged harness wires and connectors
- Short to the power supply in the driver's air bag module (squib) harness
- Malfunction of the SRS-ECU

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the driver's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) By sliding the A section (in the figure) of air bag module connector C-201 in arrow direction, disconnect the connector.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

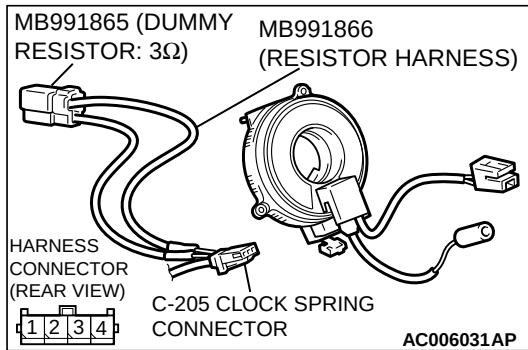
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into clock spring side air bag module connector C-201 by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 61 out put?

YES : Go to Step 2.

NO : Replace the driver's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 5.



STEP 2. Check the clock spring. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the clock spring connector C-205.
- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

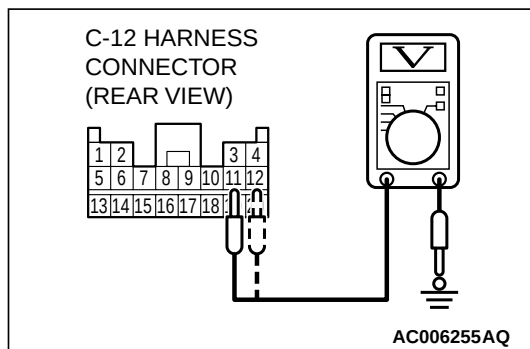
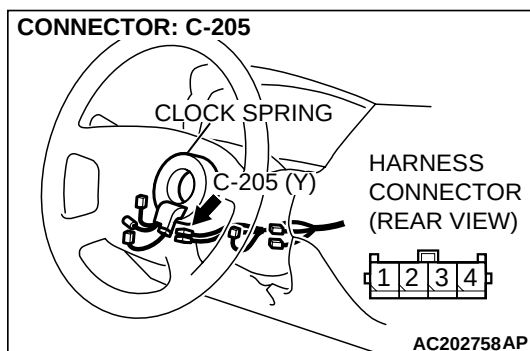
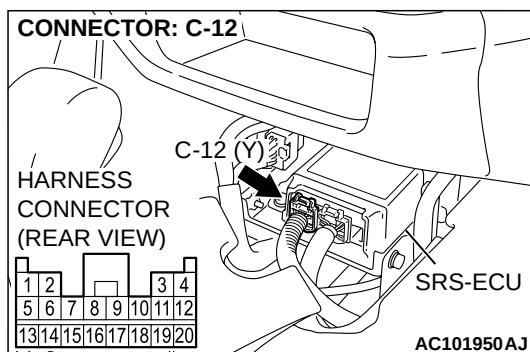
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into clock spring harness side connector C-205 (terminal No.3 and 4) by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 61 set?

YES : Go to Step 3.

NO : Replace the clock spring. (Refer to [P.52B-205](#).) Then go to Step 5.



STEP 3. Check the driver's air bag module circuit at the SRS-ECU connector C-12.

- (1) Disconnect SRS-ECU connector C-12.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the clock spring connector C-205 to short the squib circuit.

- (2) Disconnect the clock spring connector C-205.
(3) Turn the ignition switch to the "ON" position.

⚠ CAUTION

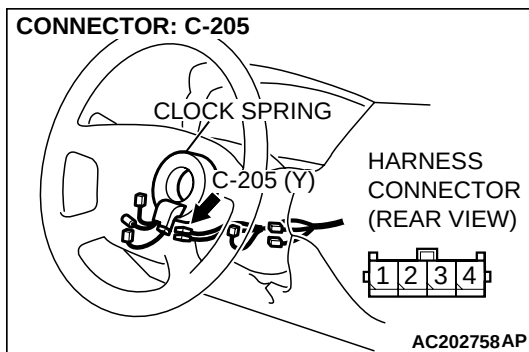
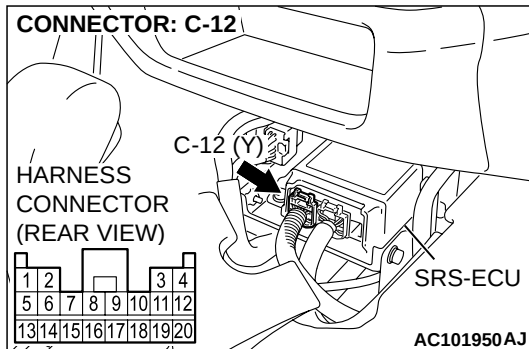
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Measure the voltage between C-12 harness connector terminals 11, 12 and body ground.
Voltage should measure 0 volt.

Q: Is the measured voltage within the specified range?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 61 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 5.

NO : Go to Step 4.



STEP 4. Check the harness for short circuit to power supply between SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4).

Q: Are harness wires between the SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4) in good condition?

YES : Go to Step 5.

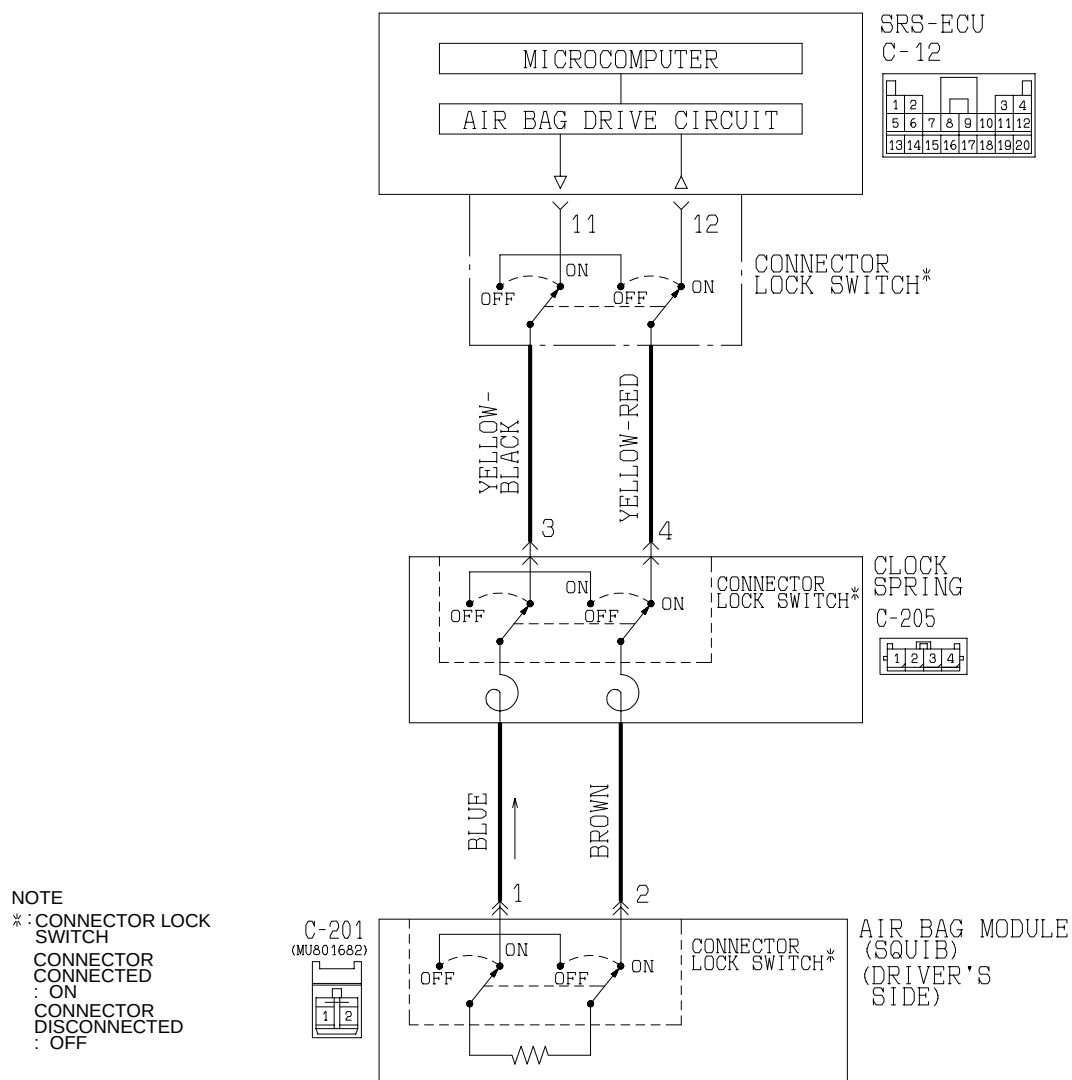
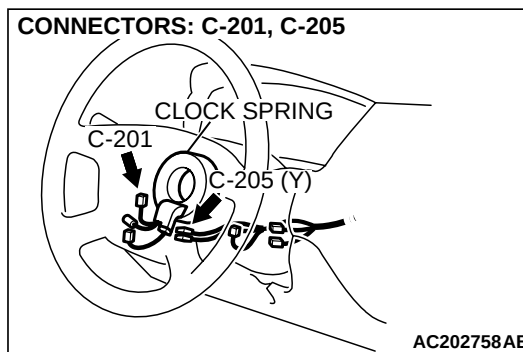
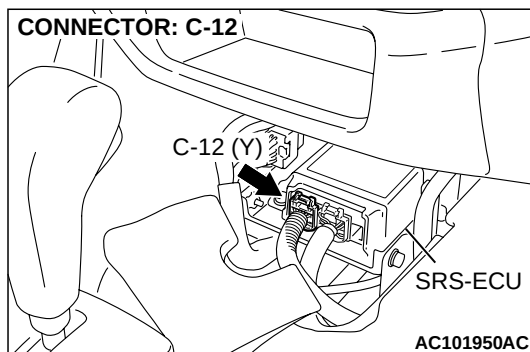
NO : Repair the harness wires between SRS-ECU connector C-12 and clock spring connector C-205. Then go to Step 5.

STEP 5. Recheck for diagnostic trouble code.

Q: Is DTC 61 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 62: Driver's Air Bag Module (Squib) System Fault for Ground Circuit (Short-Circuited to Ground)**Driver's Air Bag Module (Squib) Circuit**W3J04M06AA
AC202995AB

CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's air bag module (squib). However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

- Malfunction of the clock spring
- Damaged harness wires and connectors
- Short to the ground in the driver's air bag module (squib) harness
- Malfunction of the SRS-ECU

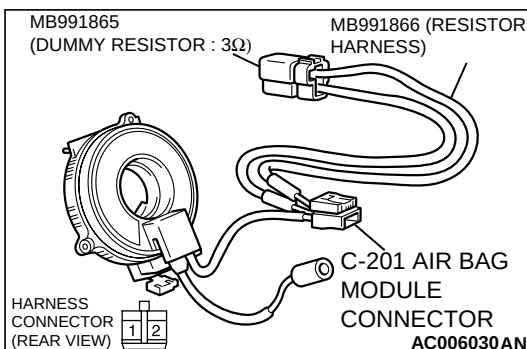
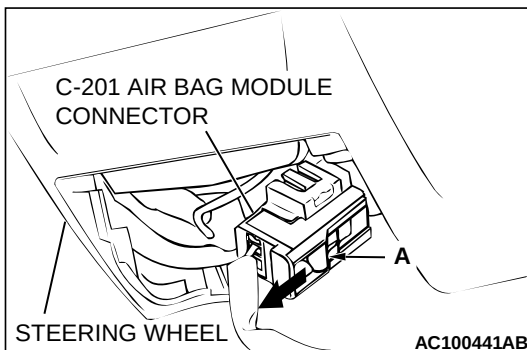
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

STEP 1. Check the driver's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) By sliding the A section (in the figure) of air bag module connector C-201 in arrow direction, disconnect the connector.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

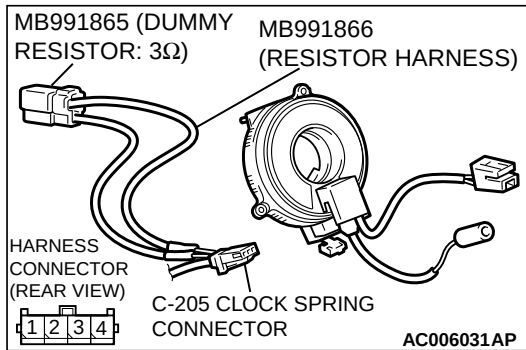
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into clock spring side air bag module connector C-201 by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 62 set?

YES : Go to Step 2.

NO : Replace the driver's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 5.

**STEP 2. Check the clock spring. (Using scan tool MB991958, read the diagnostic trouble code.)**

- (1) Disconnect the clock spring connector C-205.
- (2) Connect special tool MB991865 to special tool MB991866.

CAUTION

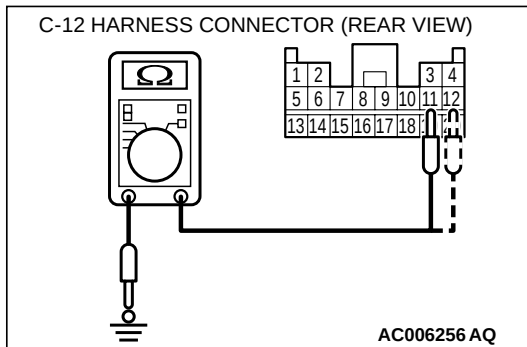
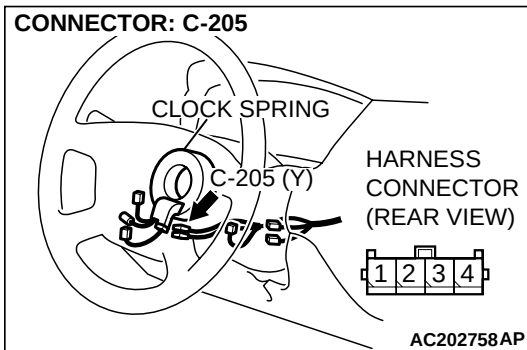
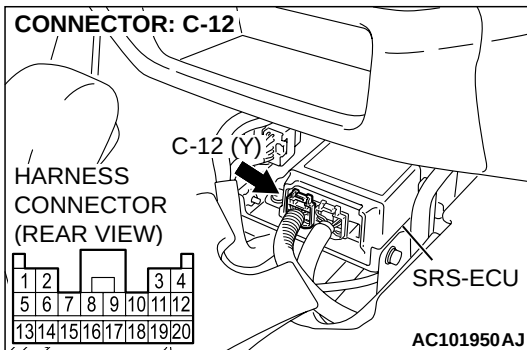
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (3) Insert special tool MB991866 into clock spring harness side connector C-205 (terminal No.3 and 4) by backprobing.
- (4) Connect the negative battery terminal.
- (5) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 62 set?

YES : Go to Step 3.

NO : Replace the clock spring. (Refer to [P.52B-205](#).) Then go to Step 5.



STEP 3. Check the driver's air bag module circuit at the SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the clock spring connector C-205 to short the squib circuit.

(2) Disconnect the clock spring connector C-205.

⚠ CAUTION

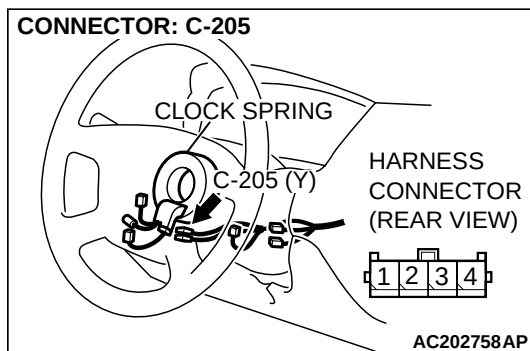
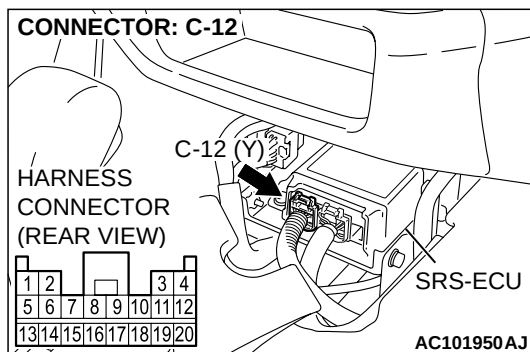
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between C-12 harness connector terminals 11, 12 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 5.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 62 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 5.



STEP 4. Check the harness for short circuit to ground between SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4).

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No.11 and 12) and clock spring connector C-205 (terminal No.3 and 4) in good condition?

YES : Go to Step 5.

NO : Repair the harness wires between SRS-ECU connector C-12 and clock spring connector C-205. Then go to Step 5.

STEP 5. Recheck for diagnostic trouble code.

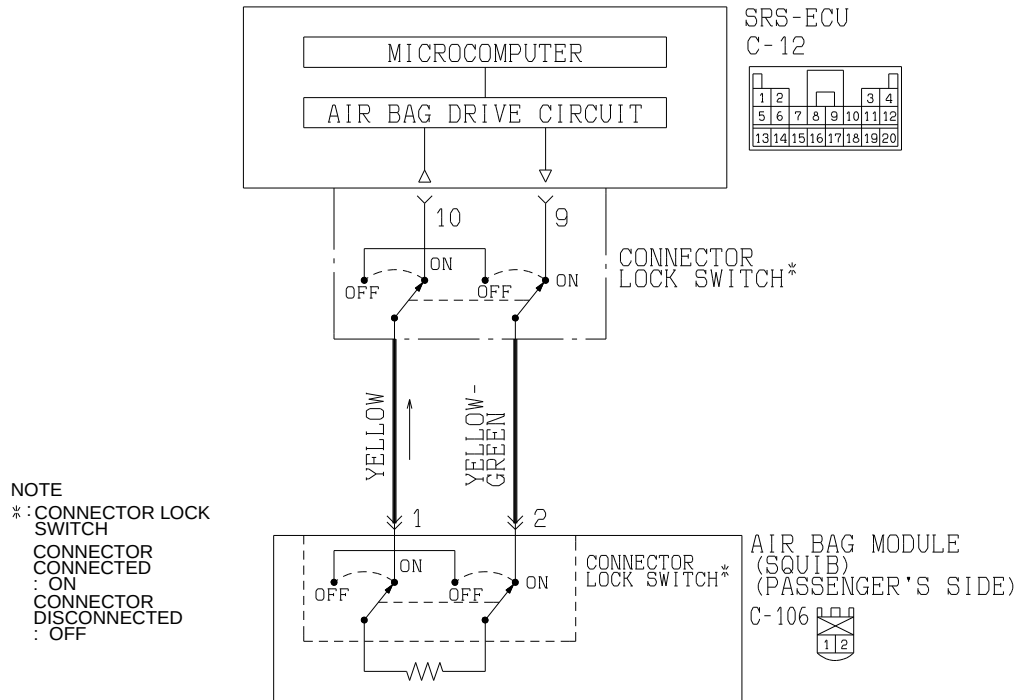
Q: Is DTC 62 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

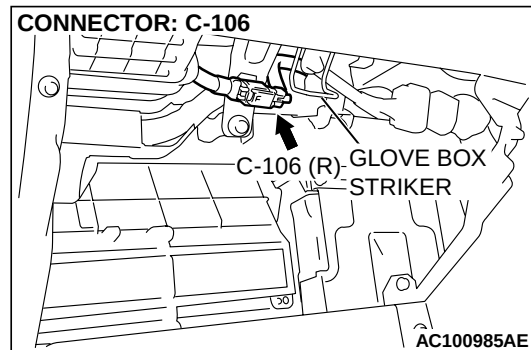
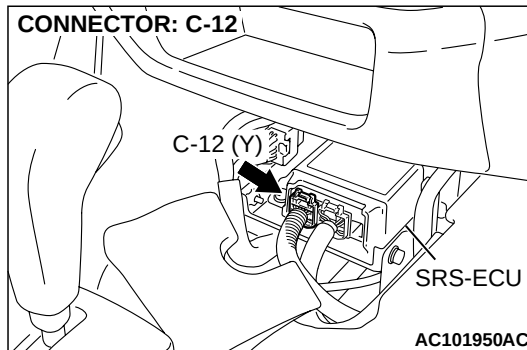
**DTC 64: Passenger's (Front) Air Bag Module (Squib) System Fault for Power Supply Circuited
(Short-Circuit to Power Supply)**

Passenger's (Front) Air Bag Module (Squib) Circuit



W3J04M03AA

AC202990AB



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's air bag module (squib). However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

- Damaged harness wires and connectors
- Short to the power supply in the passenger's air bag module (squib) harness
- Malfunction of the SRS-ECU

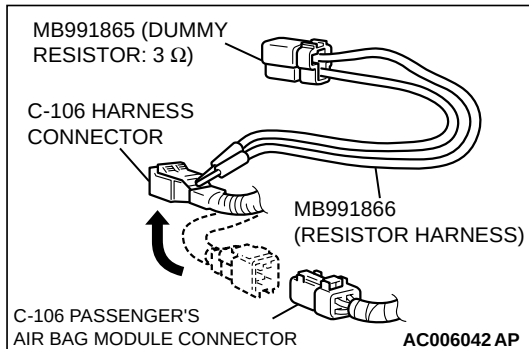
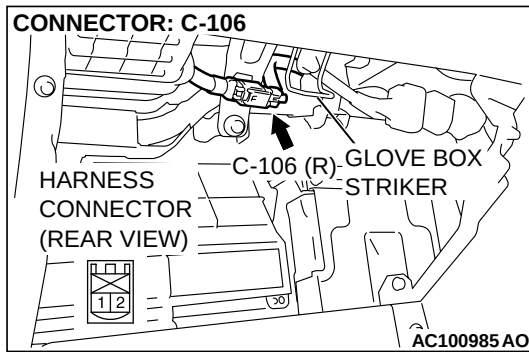
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP1. Check the passenger's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

(1) Unclip passenger's air bag module connector C-106.



(2) Connect special tool MB991865 to special tool MB991866.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Disconnect the passenger's air bag module connector C-106, and insert special tool MB991866 into the harness connector by backprobing.

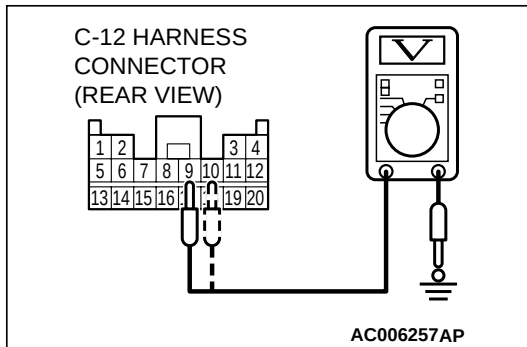
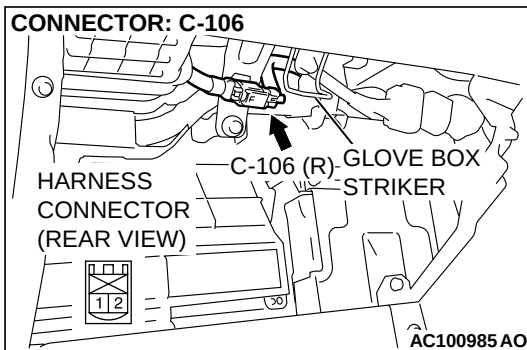
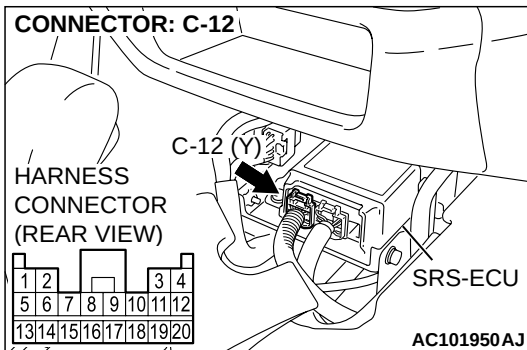
(4) Connect the negative battery terminal.

(5) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 64 set?

YES : Go to Step 2.

NO : Replace the passenger's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 4.



STEP 2. Check the passenger's air bag module circuit at the SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the passenger's air bag module connector C-106 to short the squib circuit.

(2) Unclip passenger's air bag module connector C-106.

(3) Disconnect the passenger's air bag module connector C-106.

(4) Turn the ignition switch to the "ON" position.

⚠ CAUTION

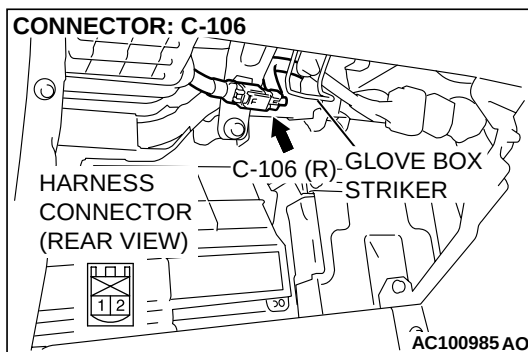
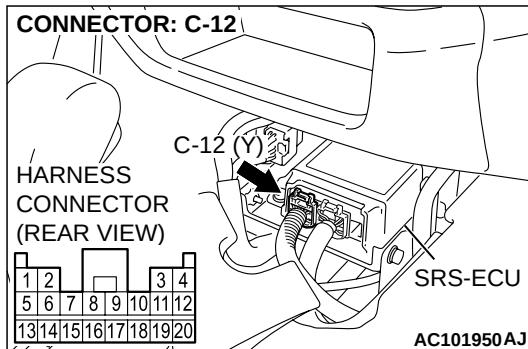
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(5) Measure the voltage between C-12 harness connector terminals 9, 10 and body ground.
Voltage should measure 0 volt.

Q: Is the measured voltage within the specified range?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 64 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

NO : Go to Step 3.



STEP 3. Check the harness wires for short circuit to power supply between SRS-ECU connector C-12 (terminal No. 9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2).

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No. 9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2) in good condition?

YES : Go to Step 4.

NO : Repair the harness wires between SRS-ECU connector C-12 and passenger's air bag module connector C-106. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

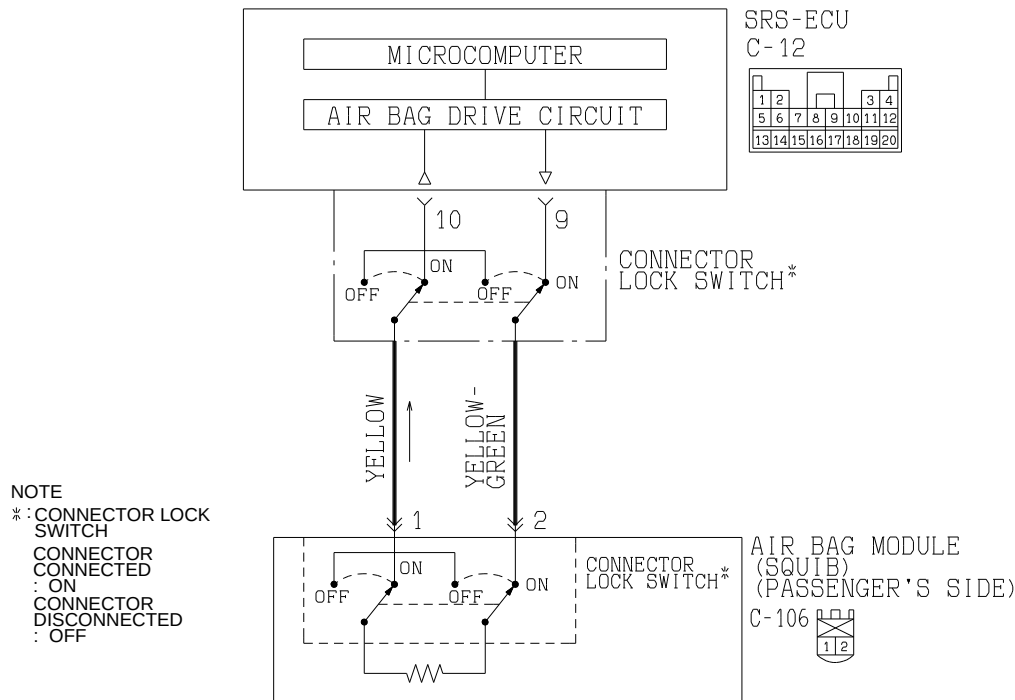
Q: Is DTC 64 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

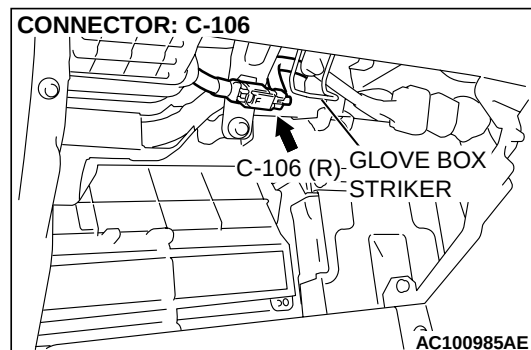
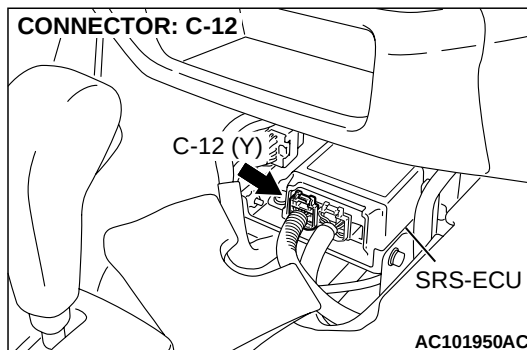
DTC 65: Passenger's (Front) Air Bag Module (Squib) System Fault for Ground Circuit (Short-Circuited to Ground)

Passenger's (Front) Air Bag Module (Squib) Circuit



W3J04M03AA

AC202990AB



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the SRS air bag will inflate.
- The ignition signal is input to the air bag module via the clock spring to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's air bag module (squib). However, if no DTC resets, the SRS warning light will be switched off (DTC will be retained).

TROUBLESHOOTING HINTS

- Damaged harness wires and connectors
- Short to the ground in the passenger's air bag module (squib) harness
- Malfunction of the SRS-ECU

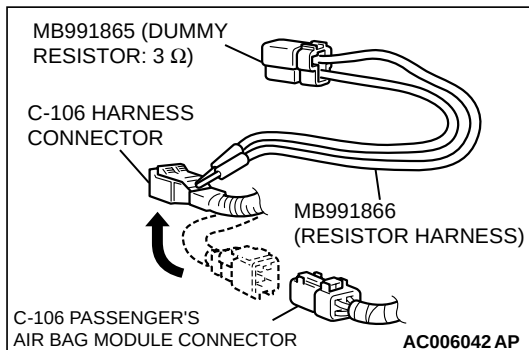
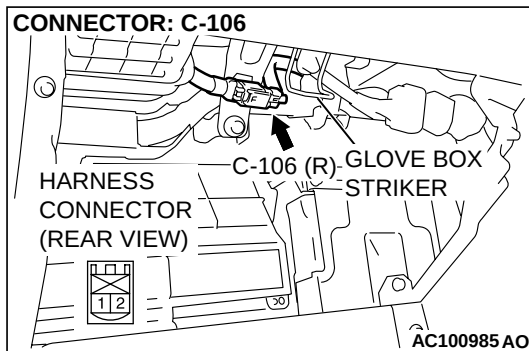
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the passenger's air bag module. (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Unclip passenger's air bag module connector C-106.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

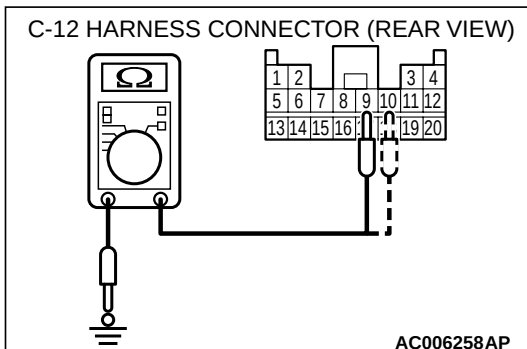
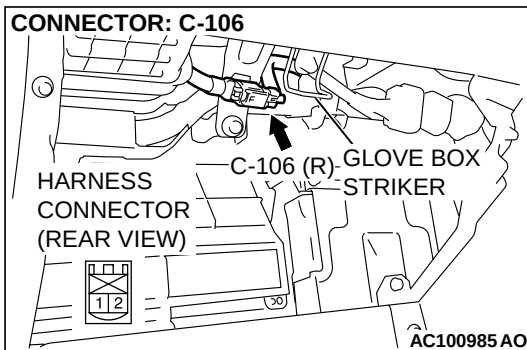
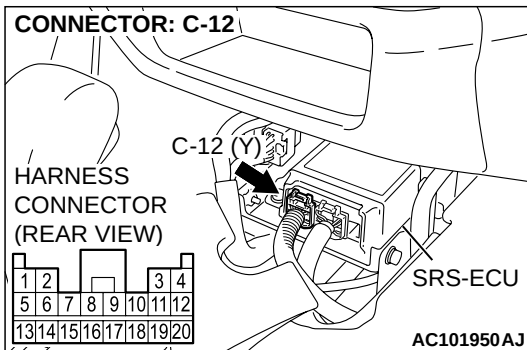
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Disconnect the passenger's air bag module connector C-106, and insert special tool MB991866 into the harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 65 set?

YES : Go to Step 2.

NO : Replace the passenger's air bag module. (Refer to [P.52B-205.](#)) Then go to Step 4.



STEP 2. Check the passenger's air bag module circuit at the SRS-ECU connector C-12.

(1) Disconnect SRS-ECU connector C-12.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the passenger's air bag module connector C-106 to short the squib circuit.

(2) Unclip passenger's air bag module connector C-106.

(3) Disconnect the passenger's air bag module connector C-106.

⚠ CAUTION

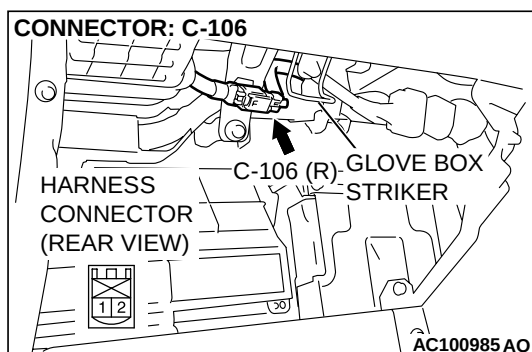
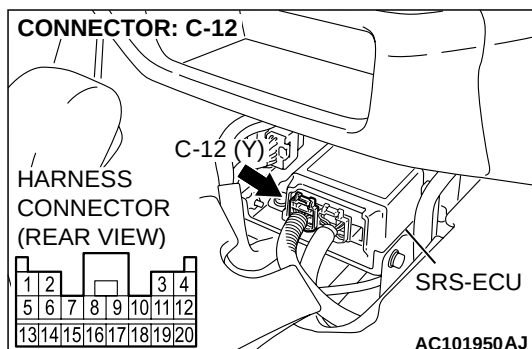
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(4) Check for continuity between C-12 harness connector terminals 9, 10 and body ground.
It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 65 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.



STEP 3. Check the harness wires for short circuit to ground between SRS-ECU connector C-12 (terminal No.9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2).

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No.9 and 10) and passenger's air bag module connector C-106 (terminal No.1 and 2) in good condition?

YES : Go to Step 4.

NO : Repair the harness wires between SRS-ECU connector C-12 and passenger's air bag module connector C-106. Then go to Step 4.

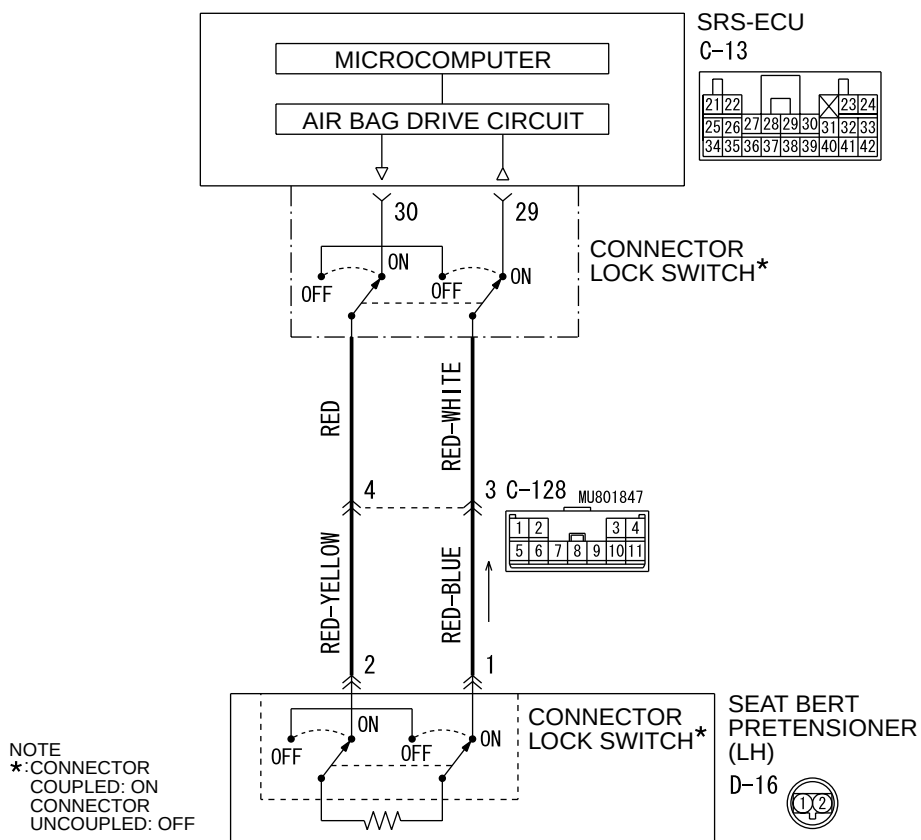
STEP 4. Recheck for diagnostic trouble code.

Q: Is DTC 65 set?

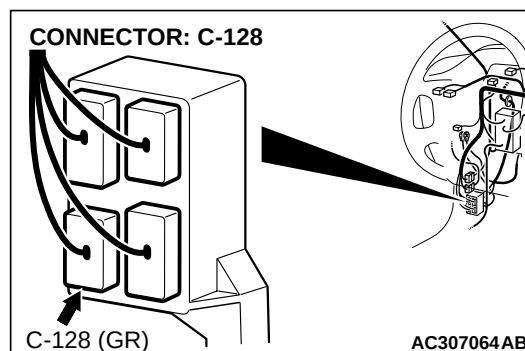
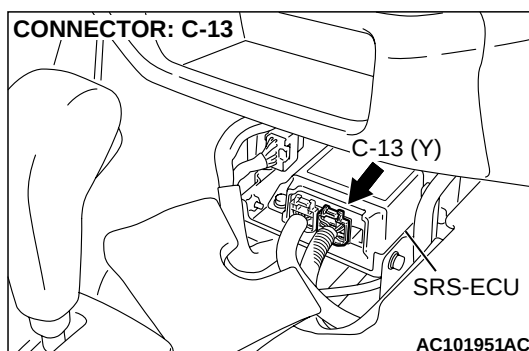
YES : Return to Step 1.

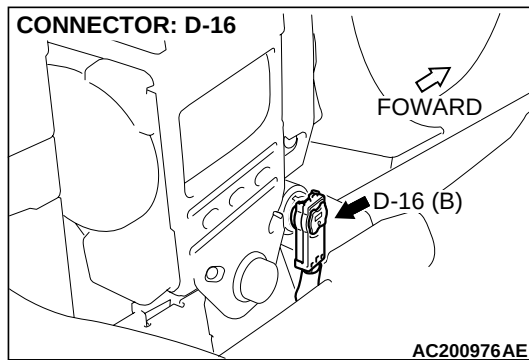
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

Driver's Seat Belt Pre-Tensioner (Squib)



W4J52M14AA



**CIRCUIT OPERATION**

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

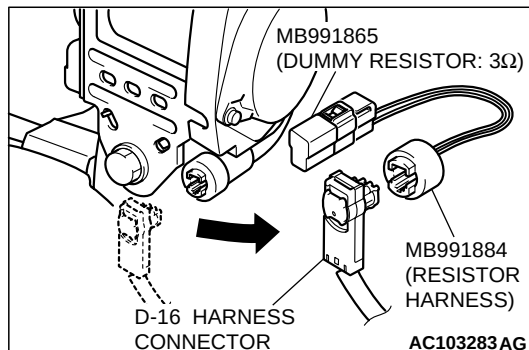
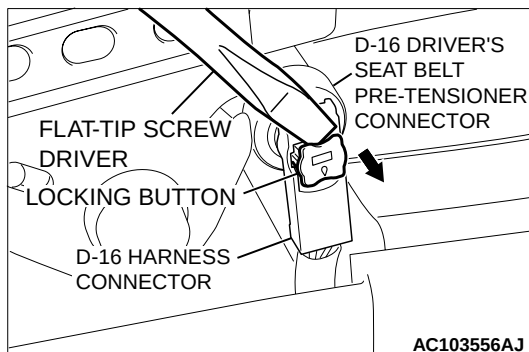
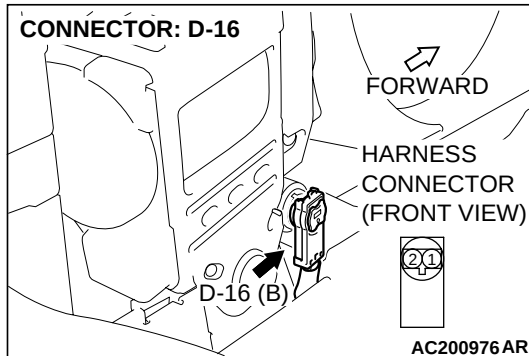
This DTC is set if there is abnormal resistance between the input terminals of the driver's seat belt pre-tensioner (squib).

TROUBLESHOOTING HITS

- Damaged wiring harnesses or connectors
- Short to the power supply in the driver's seat belt pre-tensioner (squib) harness
- Malfunction of the SRS-ECU

DIAGNOSIS**Required Special Tools:**

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)



STEP 1. Check the driver's seat belt pre-tensioner. (Using scan tool MB991958, read the diagnostic trouble code.)

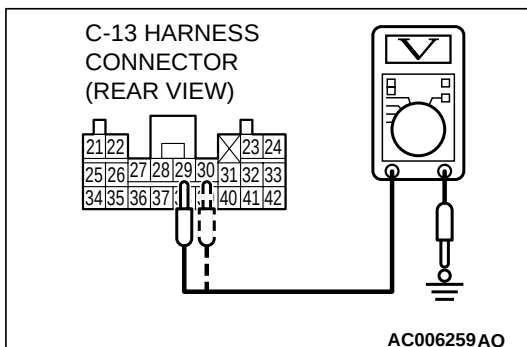
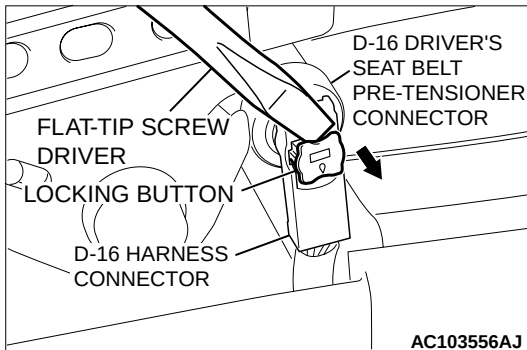
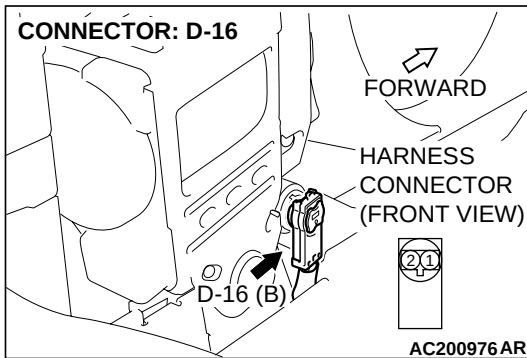
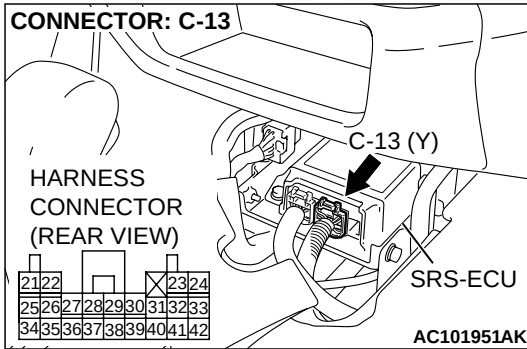
- (1) Disconnect the negative battery terminal.
- (2) Disconnect driver's seat belt pre-tensioner connector D-16.
Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-16 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 66 set?

YES : Go to Step 2.

NO : Replace the driver's seat belt pre-tensioner. (Refer to [P.52B-218.](#)) Then go to Step 4.



STEP 2. Check the driver's seat belt pre-tensioner circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the driver's seat belt pre-tensioner connector D-16 to short the squib circuit.

- (2) Disconnect driver's seat belt pre-tensioner connector D-16.
Use a flat-tipped screwdriver to pull out the locking button at the harness side connector, and then disconnect the connector.
- (3) Turn the ignition switch to the "ON" position.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Measure the voltage between C-13 harness connector terminals 29, 30 and body ground.
Voltage should measure 0 volt.

Q: Is the measured voltage within the specified range?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 65 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 4.

NO : Go to Step 3.

CONNECTOR: C-13

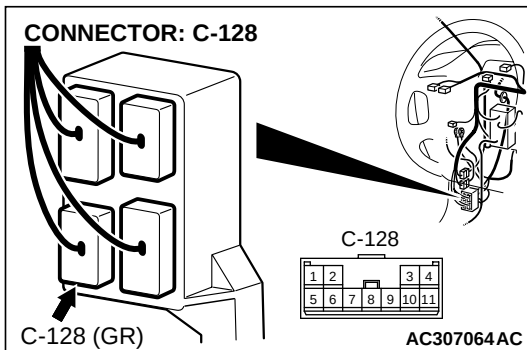
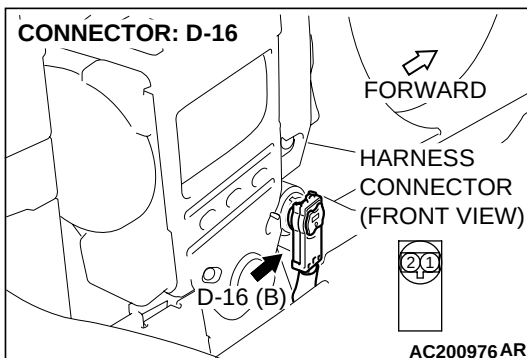
HARNESS CONNECTOR (REAR VIEW)

21	22				23	24
25	26	27	28	29	30	31
32	33				34	35
36	37	38	39	40	41	42

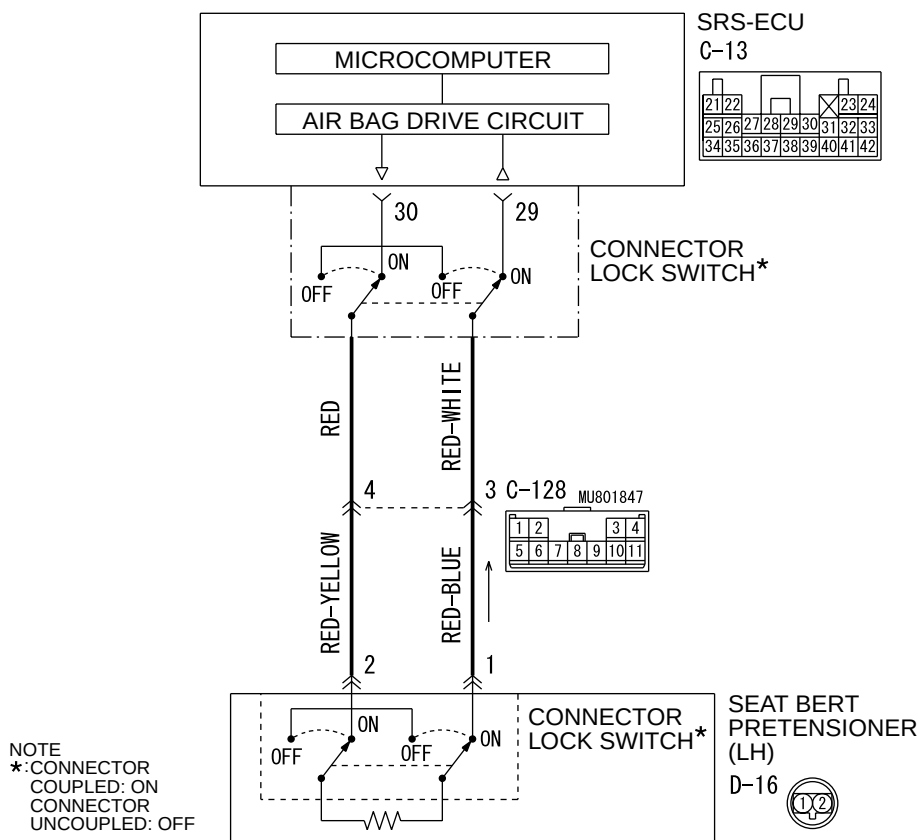
C-13 (Y)

SRS-ECU

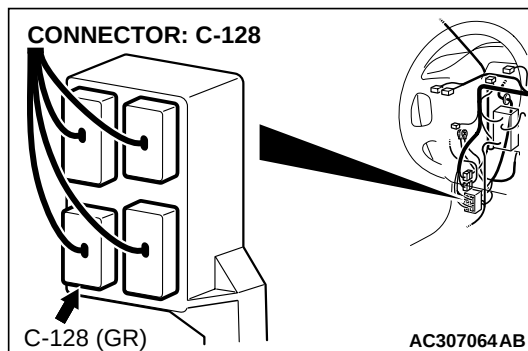
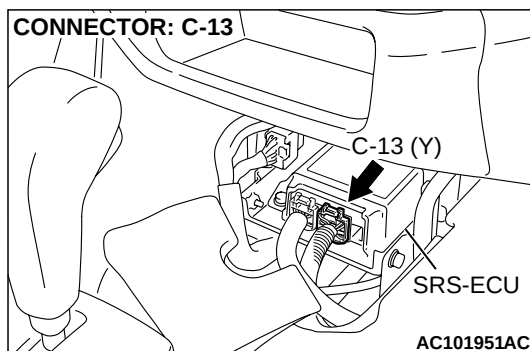
AC101951AK

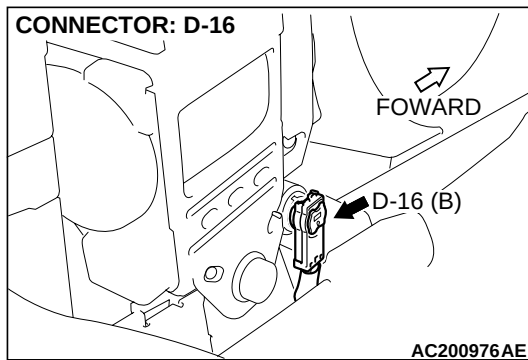


NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 67: Driver's Seat Belt Pre-Tensioner (Squib) System Fault for Ground Circuit (Short-Circuited to Ground)**Driver's Seat Belt Pre-Tensioner (Squib)**

W4J52M14AA





CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the driver's seat belt pre-tensioner (squib).

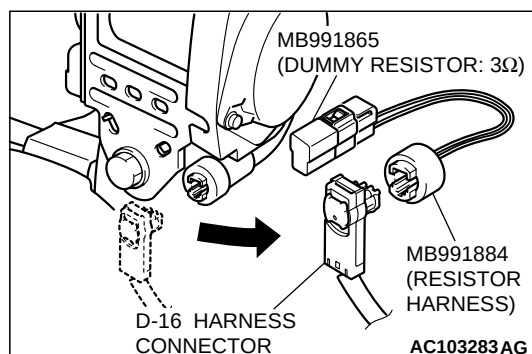
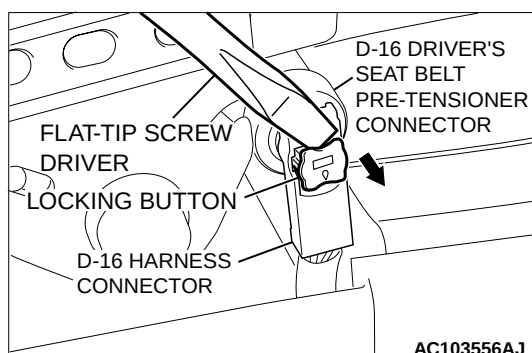
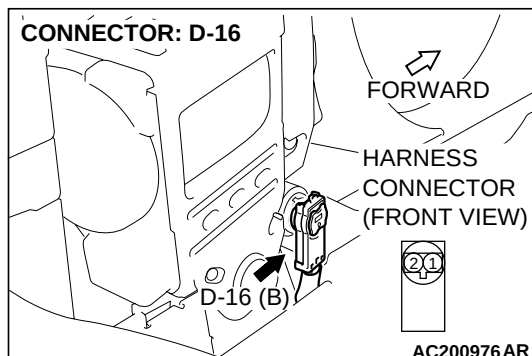
TROUBLESHOOTING HITS

- Damaged wiring harnesses or connectors
- Short to the ground in the driver's seat belt pre-tensioner (squib) harness
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)



STEP 1. Check the driver's seat belt pre-tensioner. (Using scan tool MB991958, read the diagnostic trouble code.)

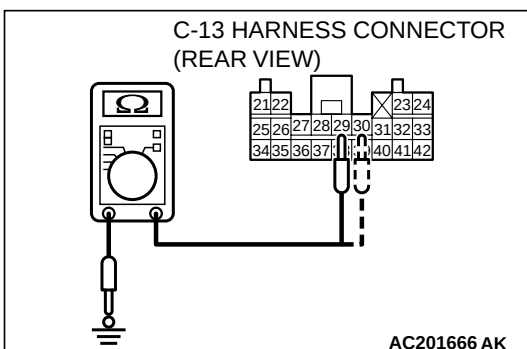
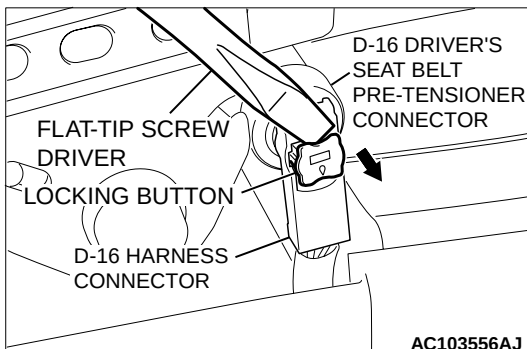
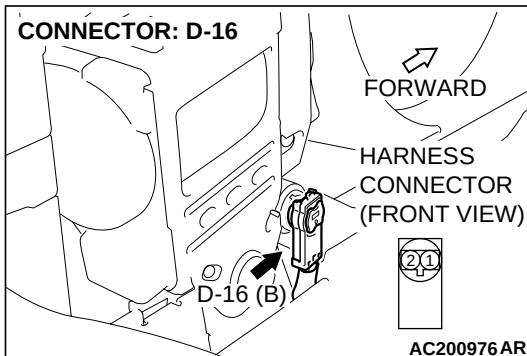
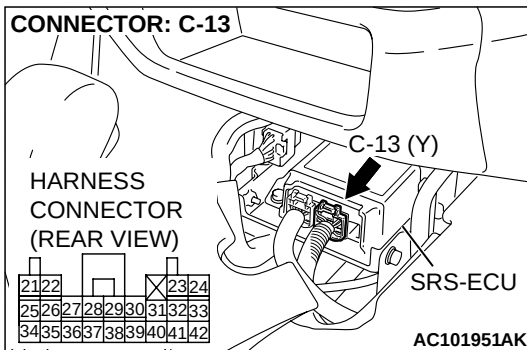
- (1) Disconnect the negative battery terminal.
- (2) Disconnect driver's seat belt pre-tensioner connector D-16.
Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-16 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 67 set?

YES : Go to Step 2.

NO : Replace the driver's seat belt pre-tensioner. (Refer to [P.52B-218.](#)) Then go to Step 4.



STEP 2. Check the driver's seat belt pre-tensioner circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the driver's seat belt pre-tensioner connector D-16 to short the squib circuit.

(2) Disconnect driver's seat belt pre-tensioner connector D-16. Use a flat-tipped screwdriver to pull out the locking button at the harness side connector, and then disconnect the connector.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

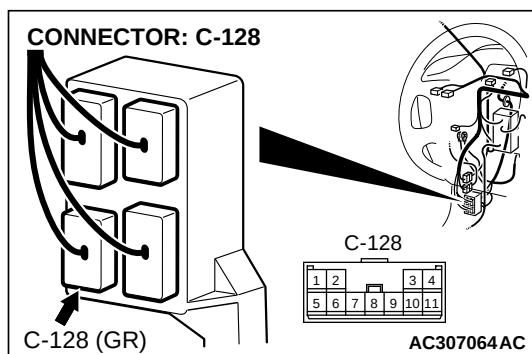
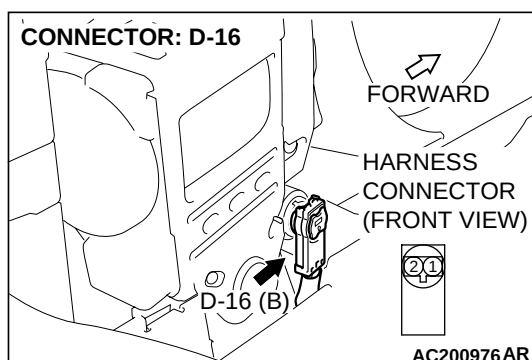
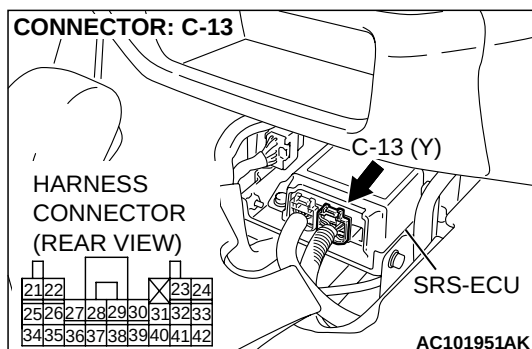
(3) Check for continuity between C-13 harness connector terminals 29, 30 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 67 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 4.

NO : Go to Step 3.

STEP 3. Check harness wires for short circuit to ground between SRS-ECU connector C-13 (terminal No.29 and 30) and driver's seat belt pre-tensioner connector D-16 (terminal No.1 and 2).



NOTE: After inspecting intermediate connector C-128, inspect the wiring harness. If the intermediate connector C-128 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Go to Step 4.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.29 and 30) and driver's seat belt pre-tensioner connector D-16 (terminal No.1 and 2) in good condition?

YES : Go to Step 4.

NO : Repair the harness wires between SRS-ECU connector C-13 and driver's seat belt pre-tensioner connector D-16. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

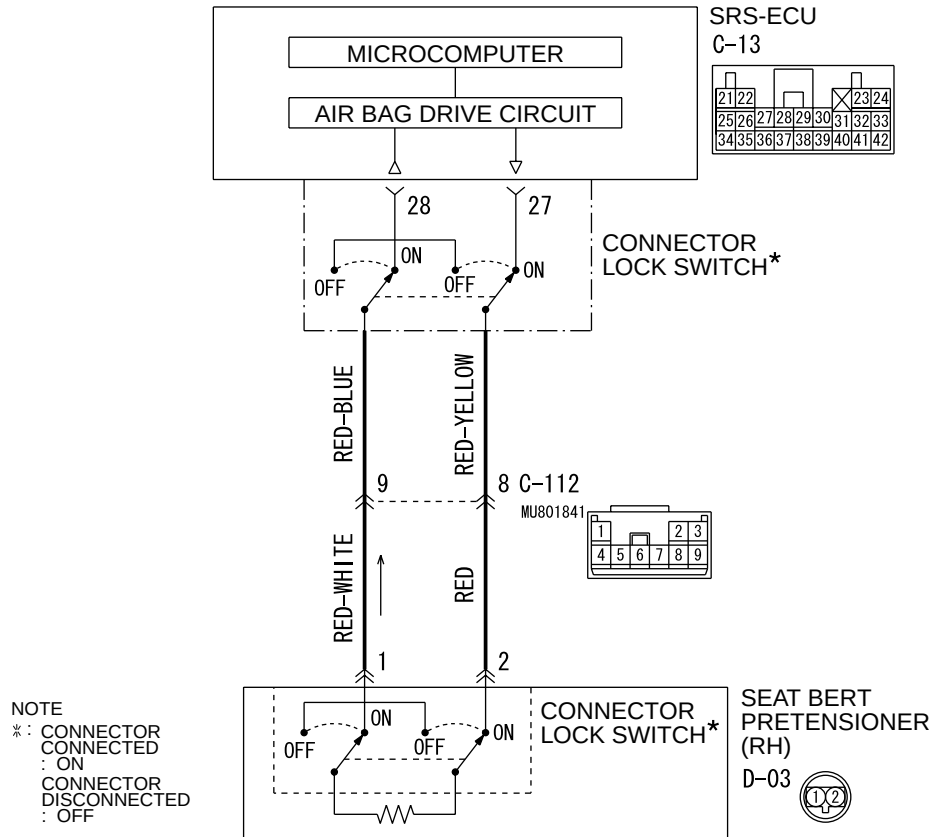
Q: Is DTC 67 set?

YES : Return to Step 1.

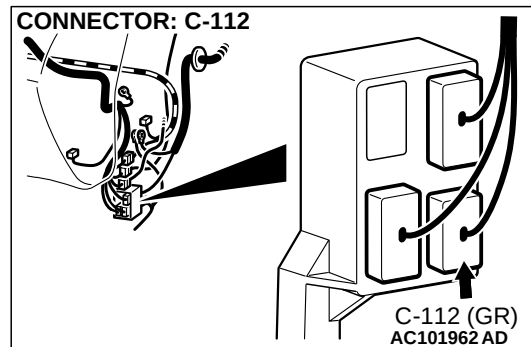
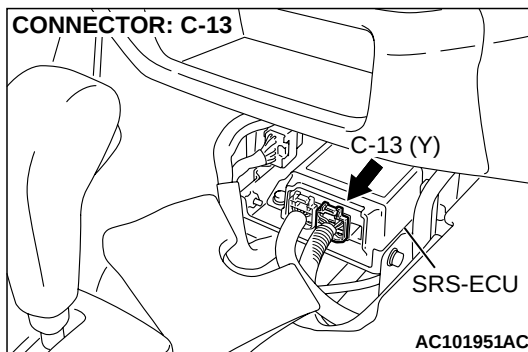
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

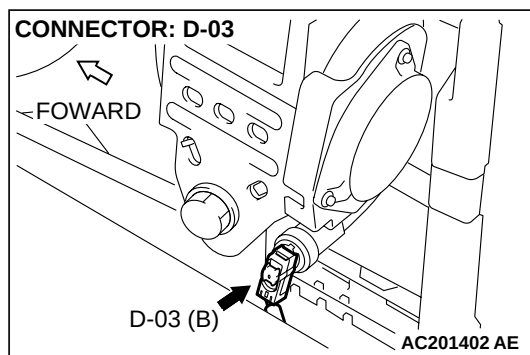
**DTC 68: Passenger's Seat Belt Pre-Tensioner (Squib) System Fault for Power Supply Circuit
(Short-Circuited to Power Supply)**

Passenger's (Front) Seat Belt Pre-tensioner (Squib)



W4J52M16AA





CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's seat belt pre-tensioner (squib).

TROUBLESHOOTING HITS

- Damaged wiring harnesses or connectors
- Short to the power supply in the passenger's seat belt pre-tensioner (squib) harness
- Malfunction of the SRS-ECU

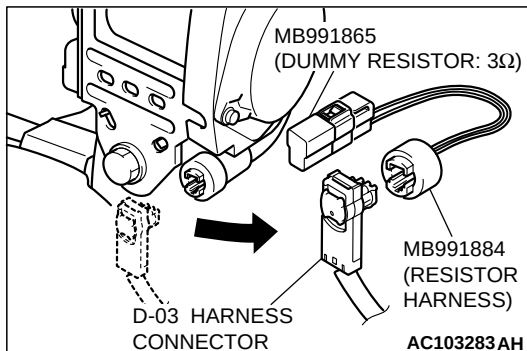
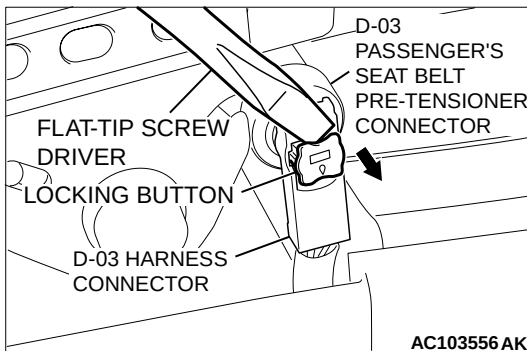
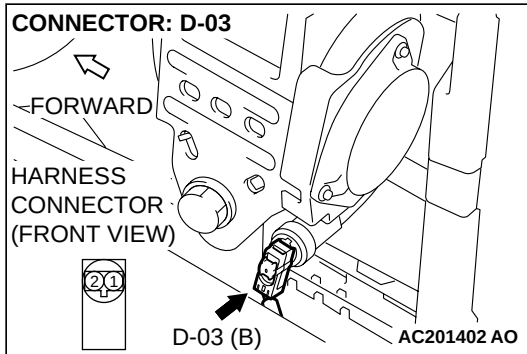
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)

STEP 1. Check the passenger's seat belt pre-tensioner.
(Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect passenger's seat belt pre-tensioner connector D-03. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

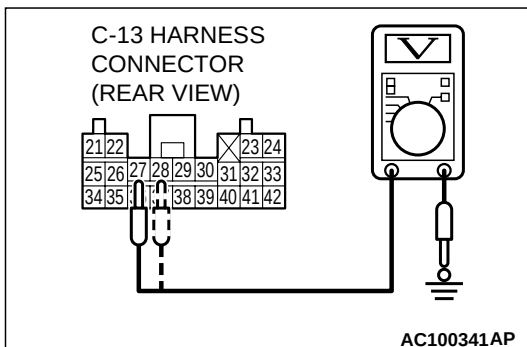
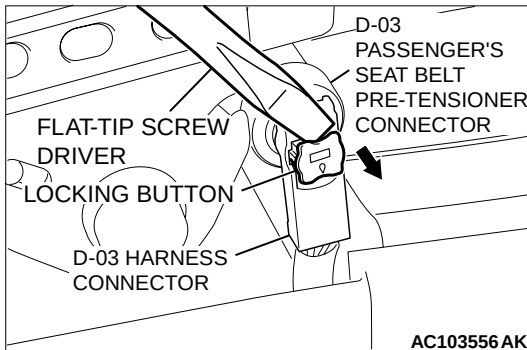
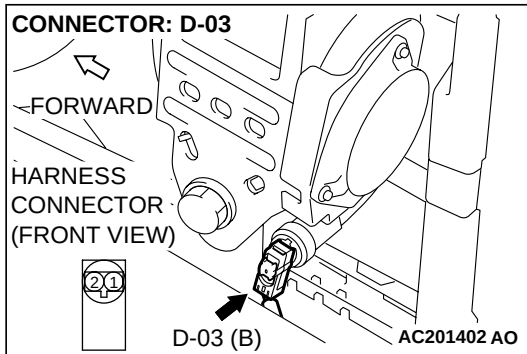
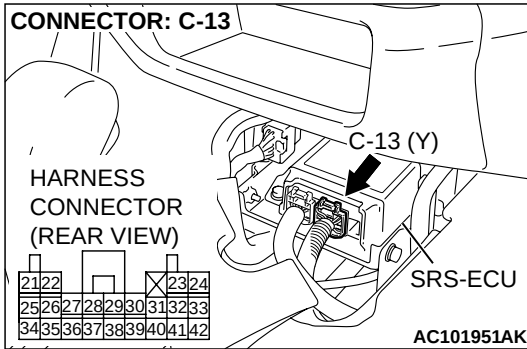


- (3) Connect special tool MB991865 to special tool MB991884.
- (4) Connect special tool MB991884 to the D-03 harness connector.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 68 set?

YES : Go to Step 2.

NO : Replace the passenger's seat belt pre-tensioner.
(Refer to [P.52B-218.](#)) Then go to Step 4.



STEP 2. Check the passenger's seat belt pre-tensioner circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the driver's seat belt pre-tensioner connector D-03 to short the squib circuit.

(2) Disconnect passenger's seat belt pre-tensioner connector D-03. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

(3) Turn the ignition switch to the "ON" position,

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(4) Measure the voltage between C-13 harness connector terminals 27, 28 and body ground. Voltage should measure 0 volt.

Q: Is the circuit normal?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 68 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 4.

NO : Go to Step 3.

CONNECTOR: C-13

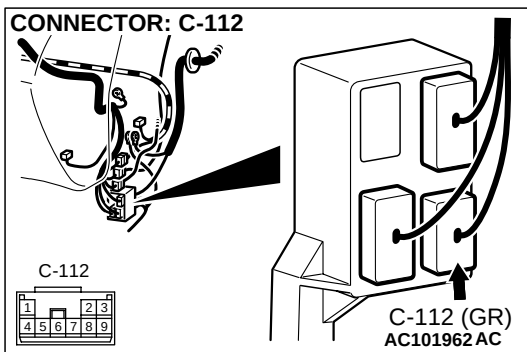
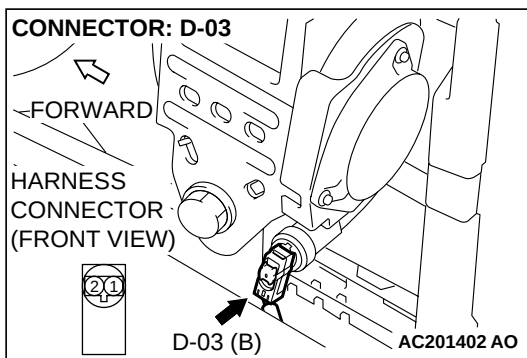
**HARNESS CONNECTOR
(REAR VIEW)**

21	22				23	24
25	26	27	28	29	30	31
32	33					34
35	36	37	38	39	40	41
42						

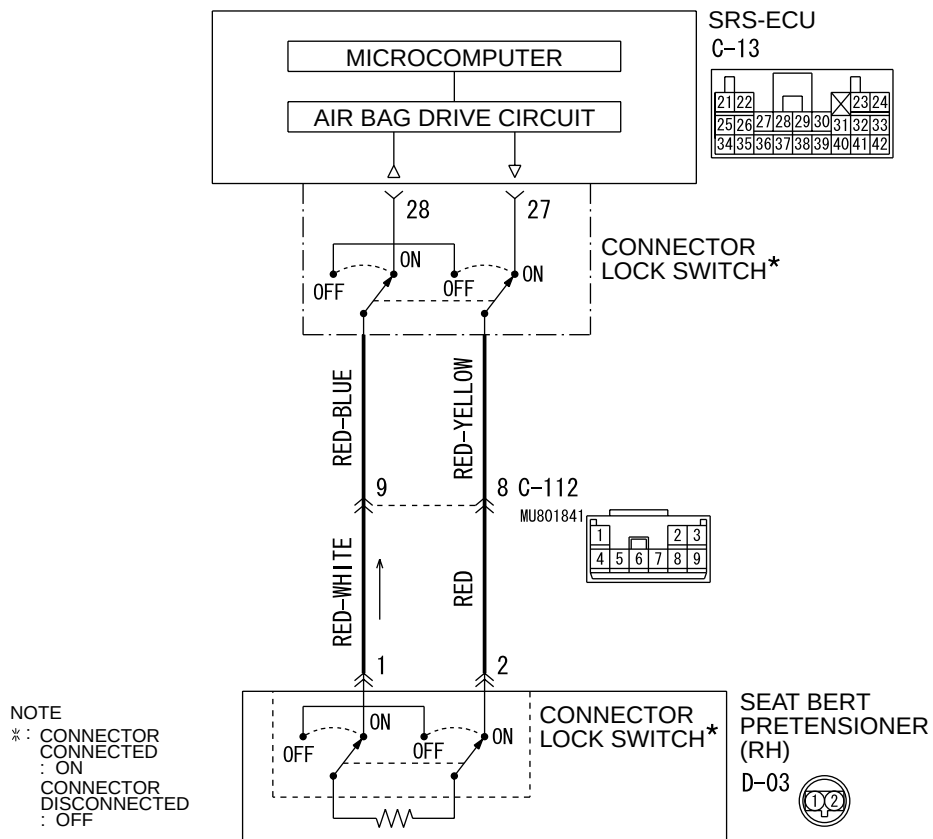
C-13 (Y)

SRS-ECU

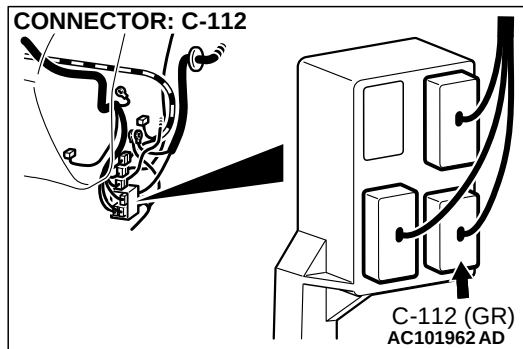
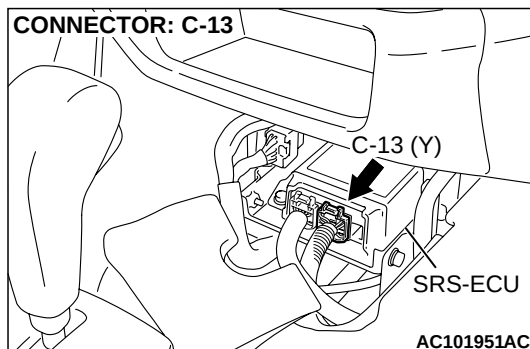
AC101951AK

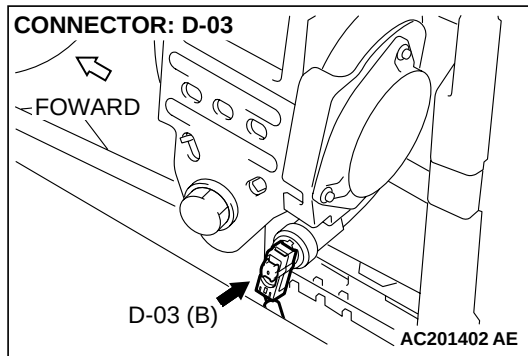


NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 69: Passenger's Seat Belt Pre-Tensioner (Squib) System Fault for Ground Circuit (Short-Circuit to Ground)**Passenger's (Front) Seat Belt Pre-tensioner (Squib)**

W4J52M16AA





CIRCUIT OPERATION

The SRS-ECU judges how severe a collision is by detecting signals from the front impact sensors and the front air bag analog G-sensor. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the front air bag safing G-sensor is on, the pre-tensioner will deploy.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the passenger's seat belt pre-tensioner (squib).

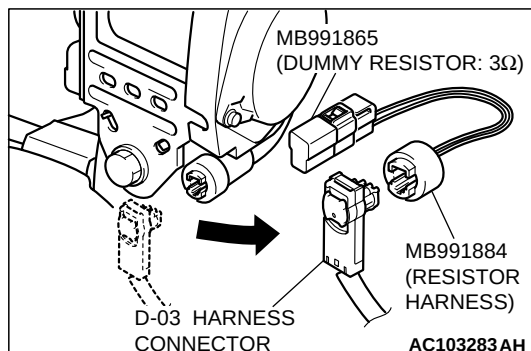
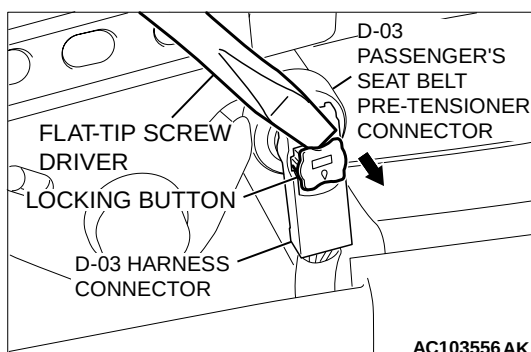
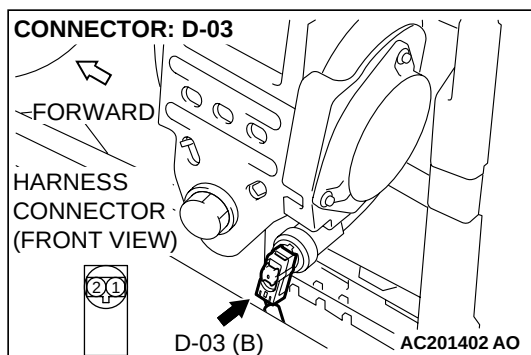
TROUBLESHOOTING HITS

- Damaged wiring harnesses or connectors
- Short to the ground in the passenger's seat belt pre-tensioner (squib) harness
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness (For Pre-tensioner)



STEP 1. Check the passenger's seat belt pre-tensioner.
(Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect passenger's seat belt pre-tensioner connector D-03. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

(3) Connect special tool MB991865 to special tool MB991884.

(4) Connect special tool MB991884 to the D-03 harness connector.

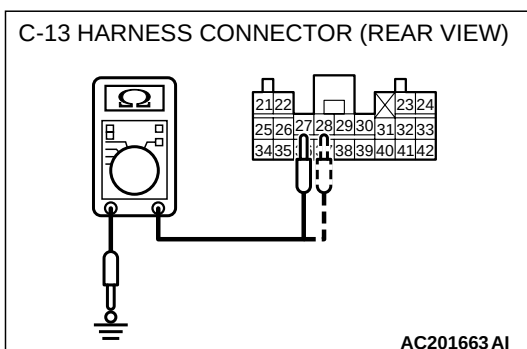
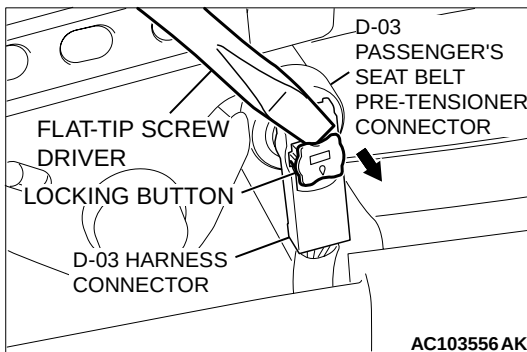
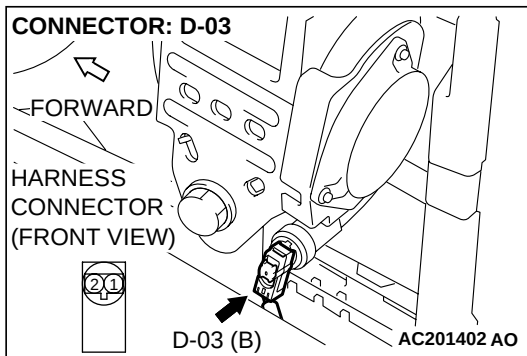
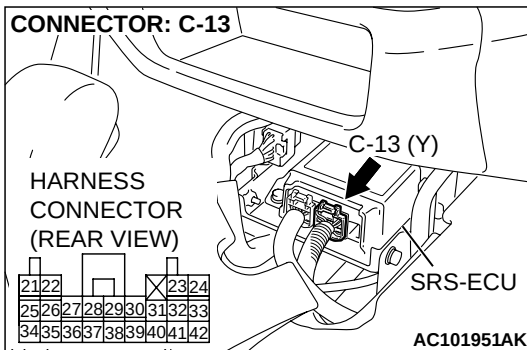
(5) Connect the negative battery terminal.

(6) Erase the diagnostic trouble code memory, and then check the diagnostic trouble code.

Q: Is DTC 69 set?

YES : Go to Step 2.

NO : Replace the passenger's seat belt pre-tensioner.
(Refer to [P.52B-218.](#)) Then go to Step 3.



STEP 2. Check the passenger's seat belt pre-tensioner circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the driver's seat belt pre-tensioner connector D-03 to short the squib circuit.

(2) Disconnect passenger's seat belt pre-tensioner connector D-03. Use a flat-tipped screwdriver to pull out the locking button at the harness connector, and then disconnect the connector.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

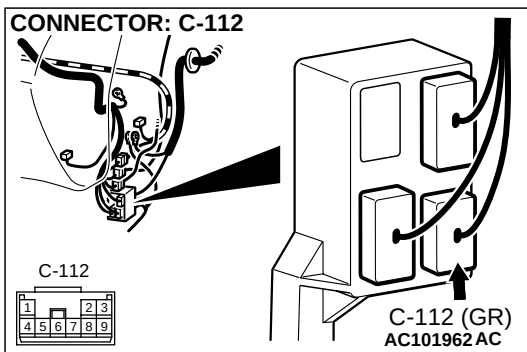
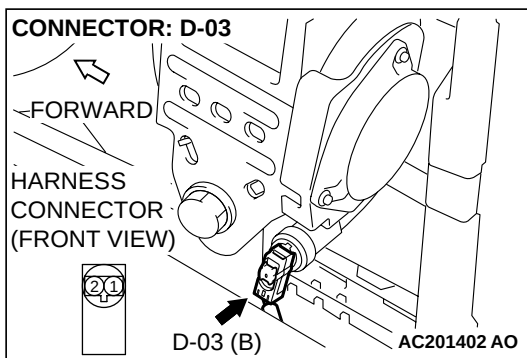
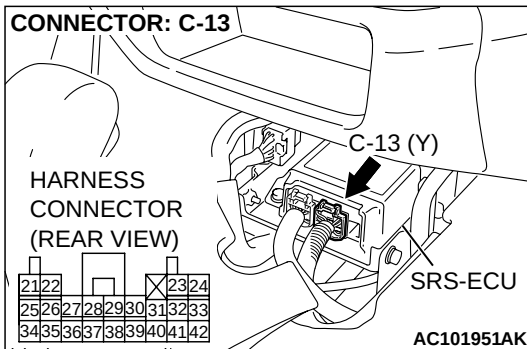
(3) Check for continuity between C-13 harness connector terminals 27, 28 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 69 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 4.

STEP 3. Check harness wires for short circuit to ground between SRS-ECU connector C-13 (terminal No.27 and 28) and passenger's seat belt pre-tensioner connector D-03 (terminal No.1 and 2).



NOTE: After inspecting intermediate connector C-112 inspect the wiring harness. If the intermediate connector C-112 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Go to Step 4.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.27 and 28) and passenger's seat belt pre-tensioner connector D-03 (terminal No.1 and 2) in good condition?

YES : Go to Step 4.

NO : Repair the harness wires between SRS-ECU connector C-13 and passenger's seat belt pre-tensioner connector D-03. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

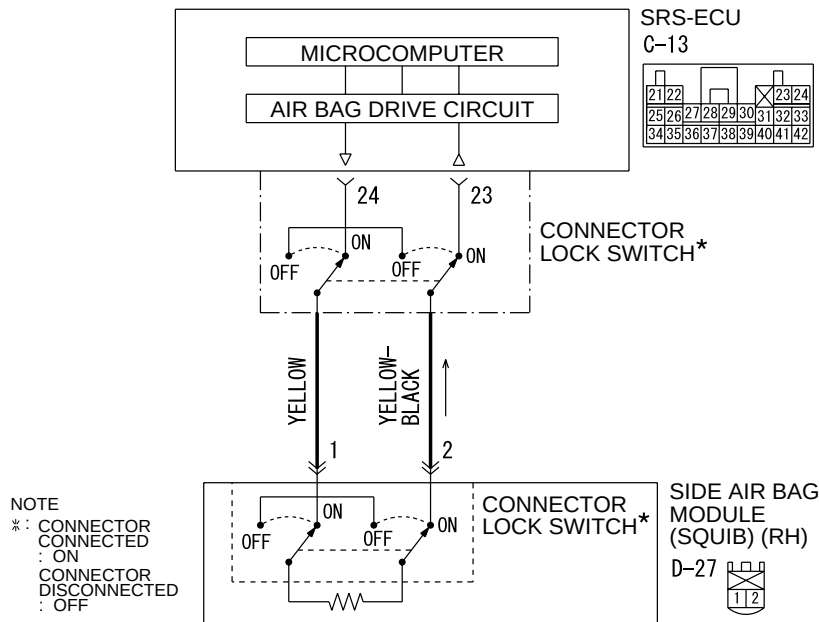
Q: Is DTC 69 set?

YES : Return to Step 1.

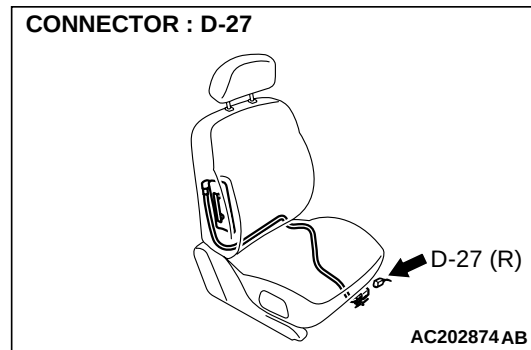
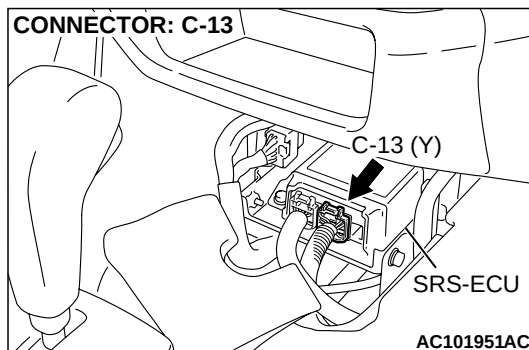
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

DTC 71: Side-Airbag Module (RH) (Squib) System Fault 1 (Short Circuit between Terminals of the Squib Circuit)

Side-Airbag Module (RH) (Squib) Circuit



W4J52M17AA



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (RH) (squib).

TROUBLESHOOTING HINTS

- Improper engaged connector or defective short spring*
- Short between the side-airbag module (RH) (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected). (Refer to [P.52B-2.](#)) Therefore, if connector C-13 or D-27 is damaged or improperly engaged, the short spring may not be released when the connector is connected.

DIAGNOSIS

Required Special Tools:

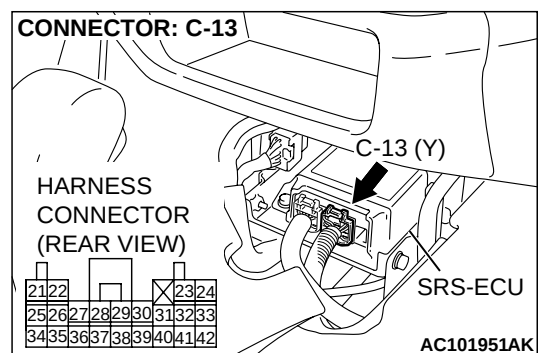
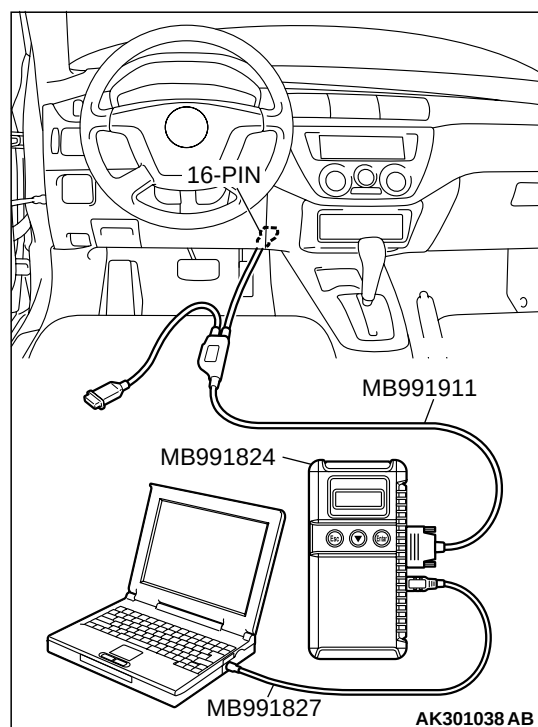
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

STEP 1. Using scan tool MB991958, read the diagnostic trouble code

Q: Is DTC 34 set?

YES : Go to Step 2.

NO : Go to Step 3.

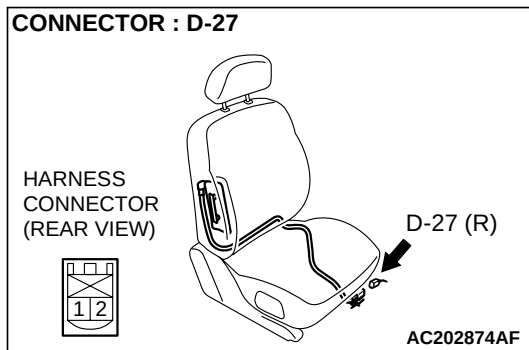


STEP 2. Check SRS-ECU connector C-13.

Q: Is the connector correctly engaged?

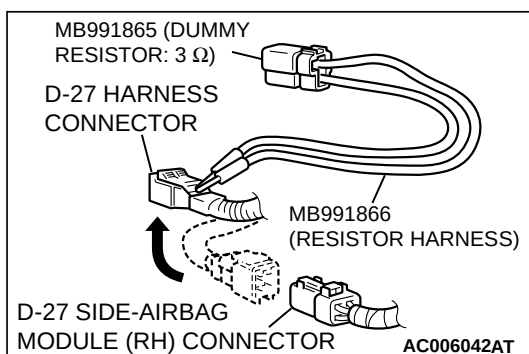
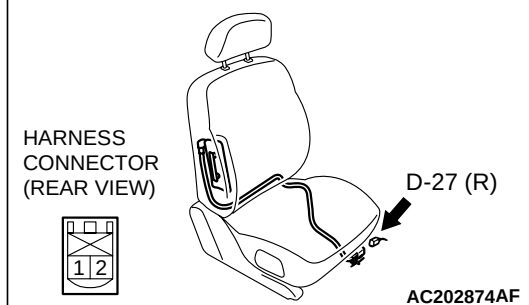
YES : Go to Step 3.

NO : Engage the connector correctly. Then go to Step 7.



- (1) Disconnect the negative battery terminal.
- (2) Disconnect connectors C-13 and D-27, and then reconnect them.
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

NO : The procedure is complete. It is assumed that DTC 71 set as connector C-13 or D-27 was engaged improperly.

CONNECTOR : D-27**STEP 4. Check the side-airbag module (RH). (Using scan tool MB991958, read the diagnostic trouble code.)**

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (RH) connector D-27.

- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

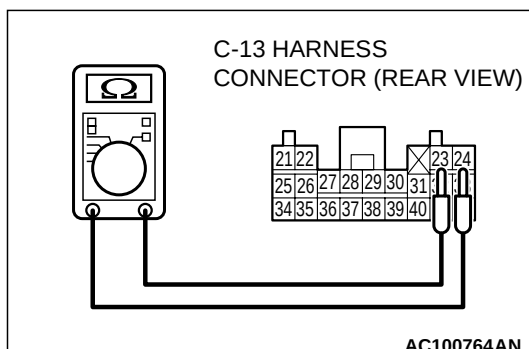
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

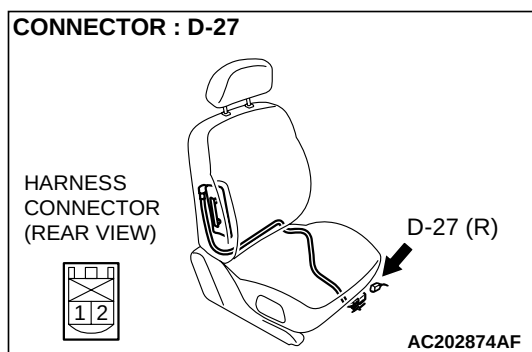
- (4) Insert special tool MB991866 into the D-27 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 71 set?

YES : Go to Step 5.

NO : Replace the seat back assembly of the front seat (RH). (Refer to GROUP 52A, Front Seat [P.52A-22](#).) Then go to Step 7.



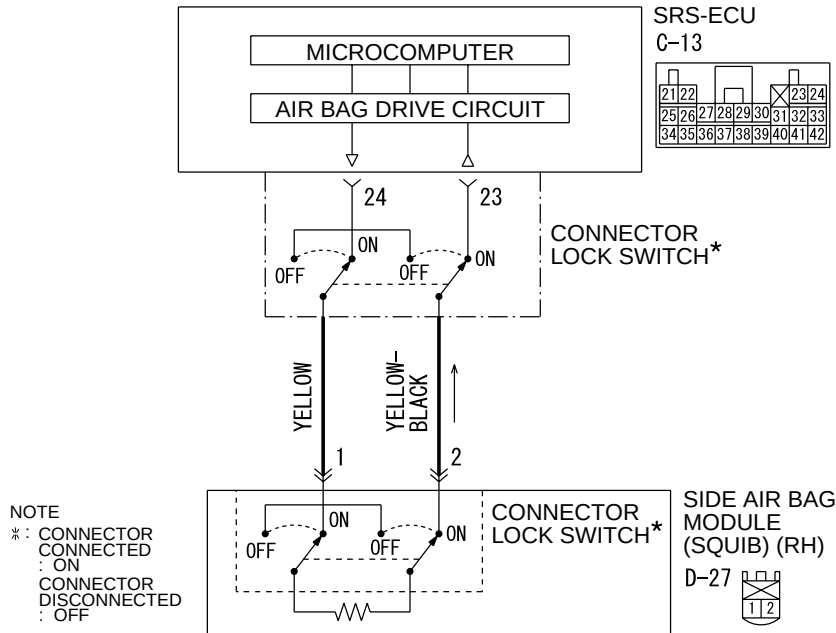


NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (RH) connector D-27. Then go to Step 7.

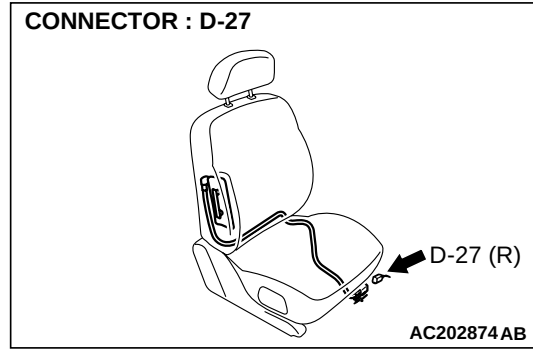
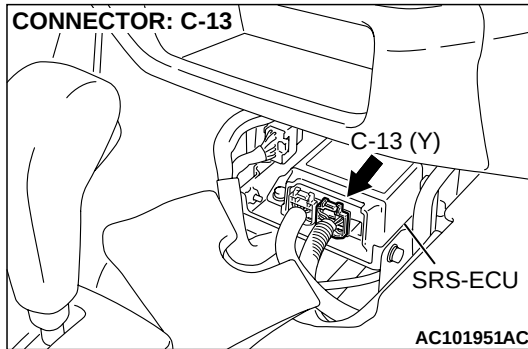
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 72: Side-Airbag Module (RH) (Squib) System Fault 2 (Open in the Squib Circuit)

Side-Airbag Module (RH) (Squib) Circuit



W4J52M17AA



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (RH) (squib).

TROUBLESHOOTING HINTS

- Open circuit in the side-airbag module (RH) (squib) circuit
- Improper connector contact
- Malfunction of the SRS-ECU

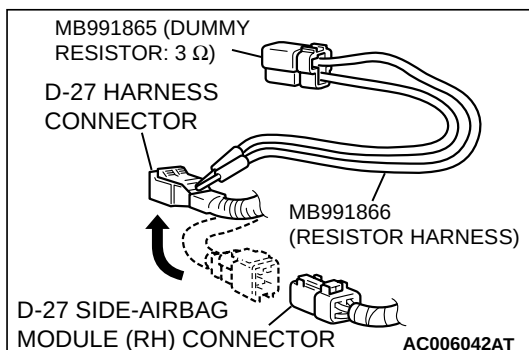
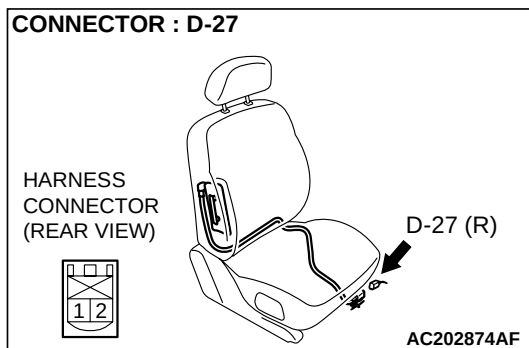
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the side-airbag module (RH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (RH) connector D-27.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

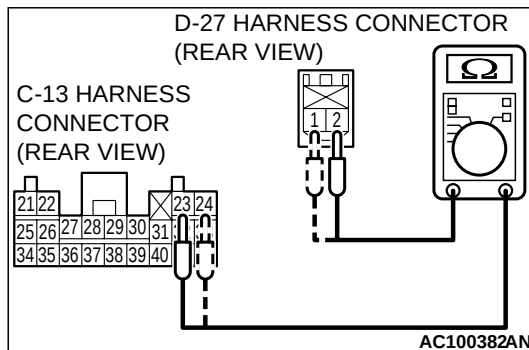
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-27 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 72 set?

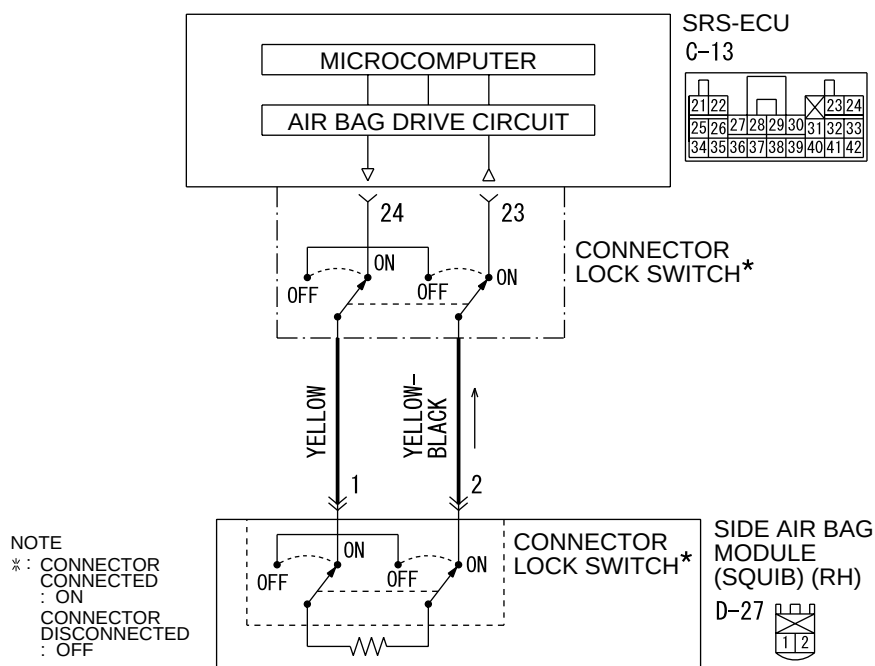
YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (RH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#)) Then go to Step 3.

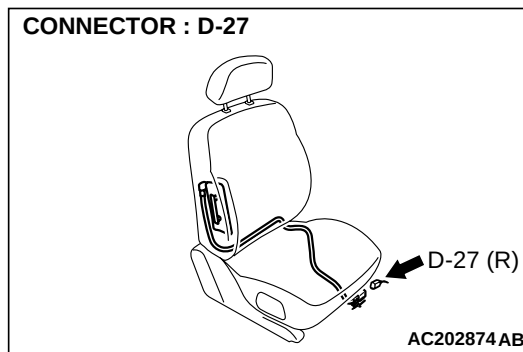
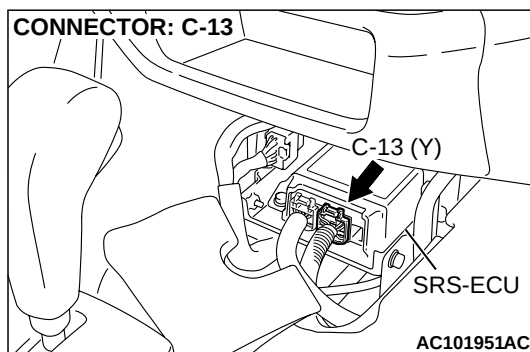


(1) Disconnect SRS-ECU connector C-13 and side-airbag module (RH) connector D-27.

NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (RH) connector D-27. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.**Q: Is DTC 72 set?****YES :** Return to Step 1.**NO :** The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))**DTC 75: Side-Airbag Module (RH) (Squib) System Fault Power Supply Circuit (Short-Circuited to Power Supply)****Side-Airbag Module (RH) (Squib) Circuit**

W4J52M17AA



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the air bag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (RH) (squib).

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Short to the power supply in the side-airbag module (RH) (squib) harness
- Malfunction of the SRS-ECU

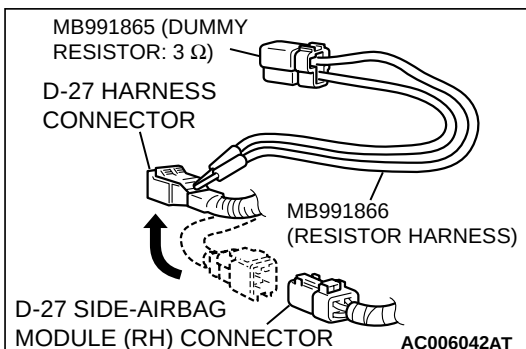
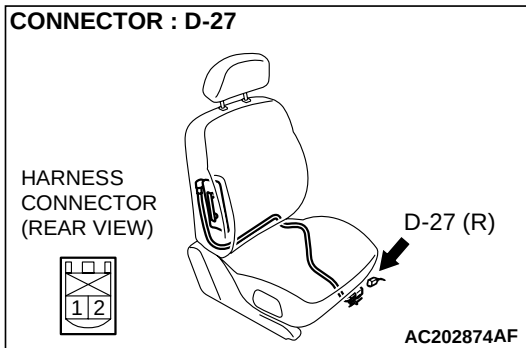
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the side-airbag module (RH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (RH) connector D-27.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

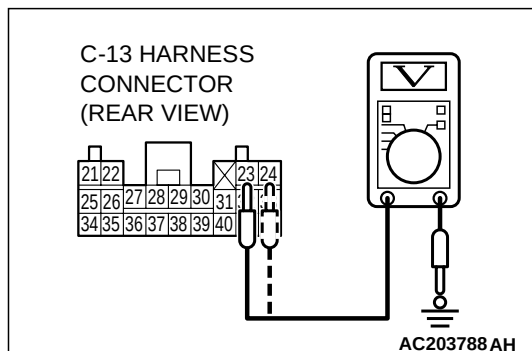
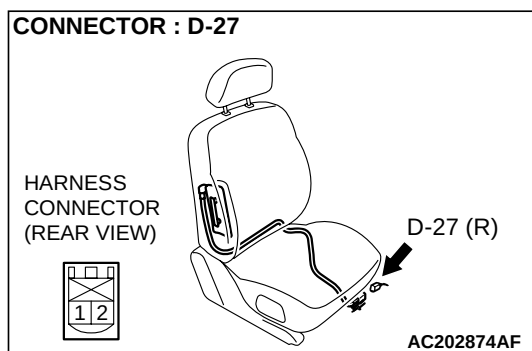
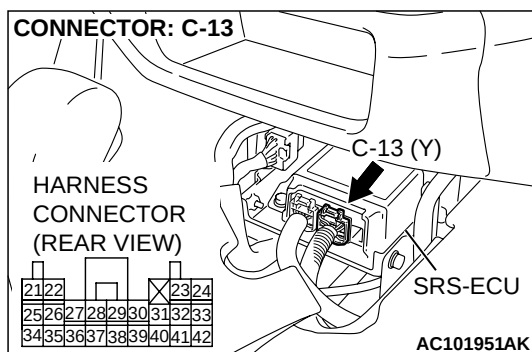
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-27 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 75 set?

YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (RH). (Refer to GROUP 52A, Front Seat [P.52A-22](#).) Then go to Step 3.



STEP 2. Check the side-airbag module (RH) circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the side-airbag module (RH) connector D-27 to short the squib circuit.

(2) Disconnect side-airbag module (RH) connector D-27.

(3) Turn the ignition switch to the "ON" position.

⚠ CAUTION

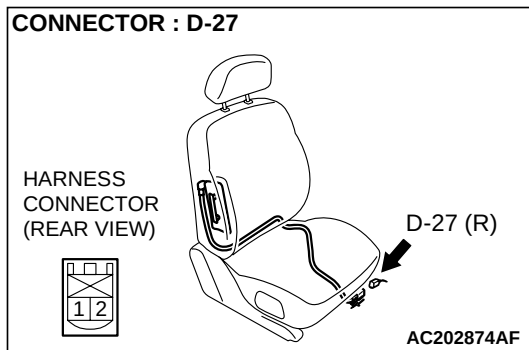
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(4) Measure the voltage between C-13 harness connector terminals 23 and 24 and body ground.
Voltage should measure 0 volt.

Q: Is the measured voltage within the specified range?

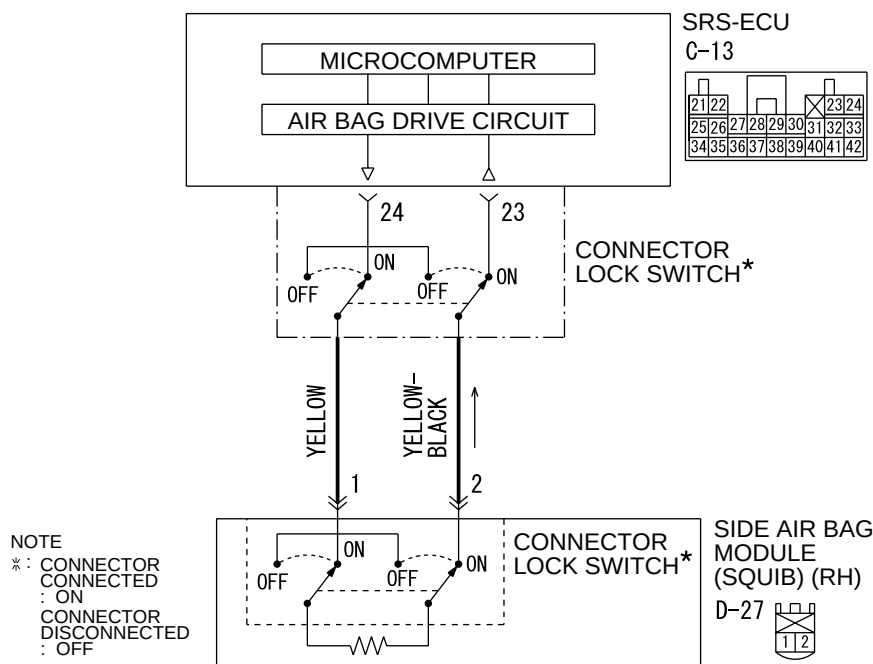
YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 75 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

NO : Go to Step 3.

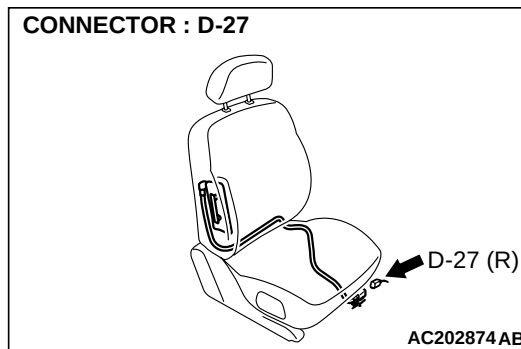
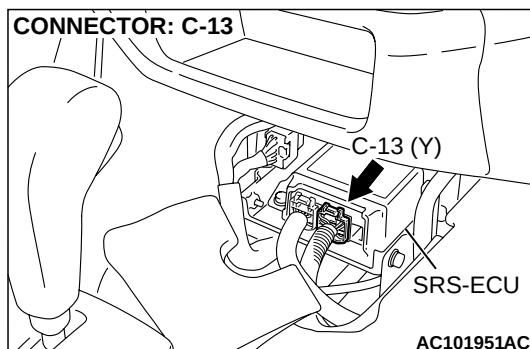


NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (RH) connector D-27. Then go to Step 4.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 76: Side-Airbag Module (RH) (Squib) System Fault Ground Circuit (Short-Circuited to Ground)**Side-Airbag Module (RH) (Squib) Circuit**

W4J52M17AA

**CIRCUIT OPERATION**

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (RH) (squib).

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Short to ground in the side-airbag module (RH) (squib) harness
- Malfunction of the SRS-ECU

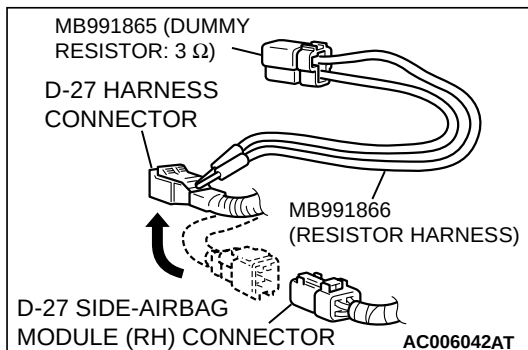
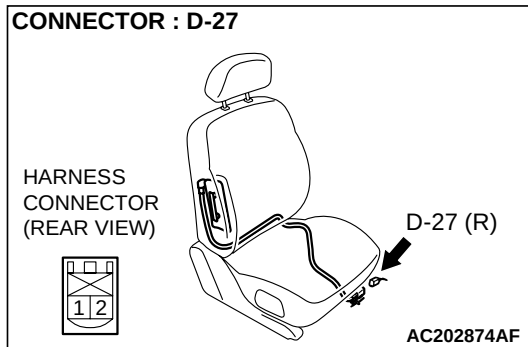
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

STEP 1. Check the side-airbag module (RH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (RH) connector D-27.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

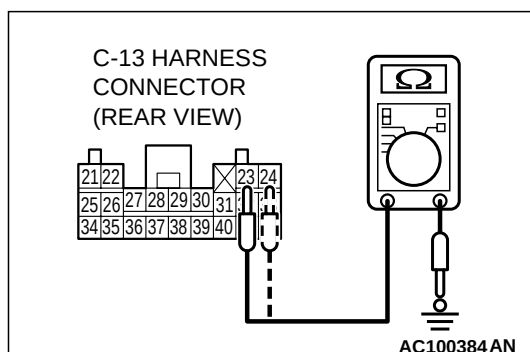
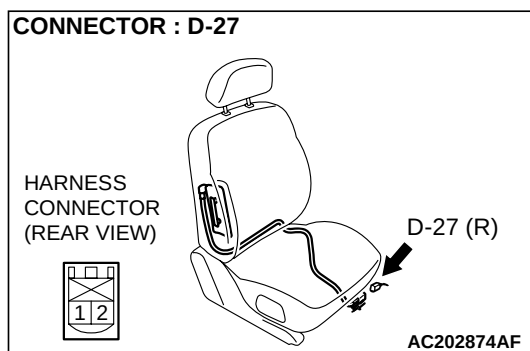
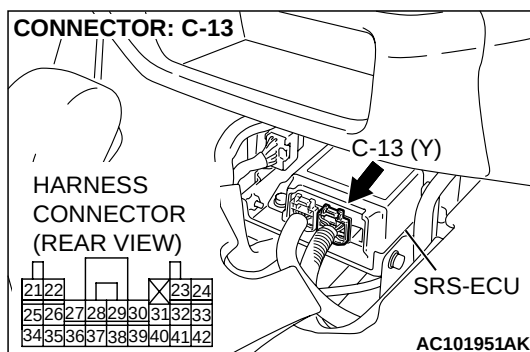
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-27 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 76 set?

YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (RH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#))
Then go to Step 4.



STEP 2. Check the side-airbag module (RH) circuit at the SRS-ECU connector C-13

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the side-airbag module (RH) connector D-27 to short the squib circuit.

(2) Disconnect side-airbag module (RH) connector D-27.

⚠ CAUTION

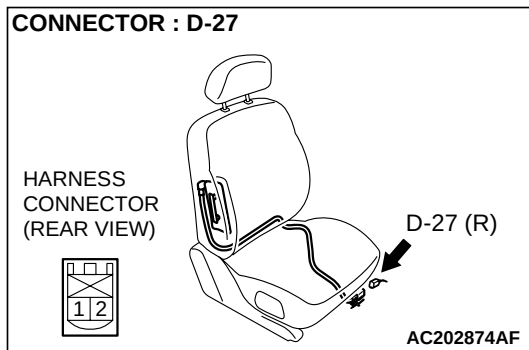
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between C-13 harness connector terminals 23, 24 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 76 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

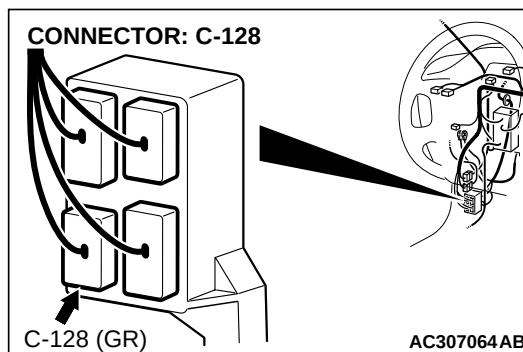
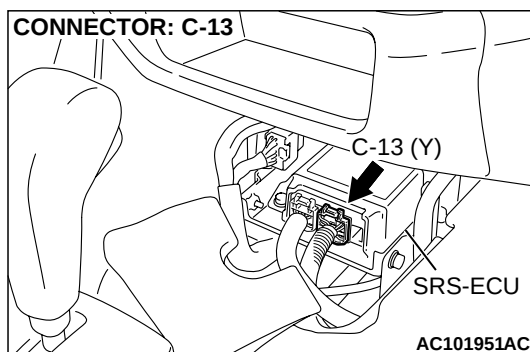
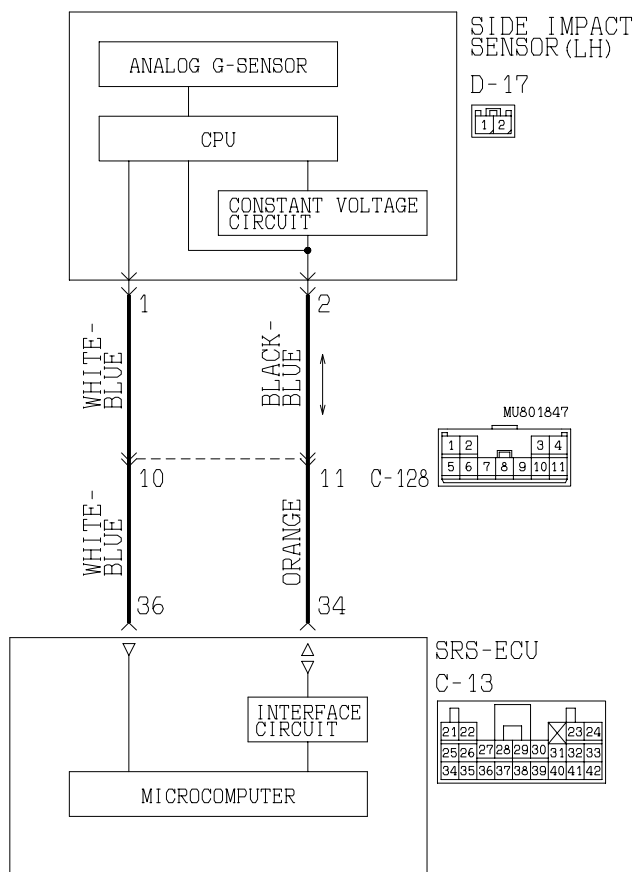


NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (RH) connector D-27. Then go to Step 4.

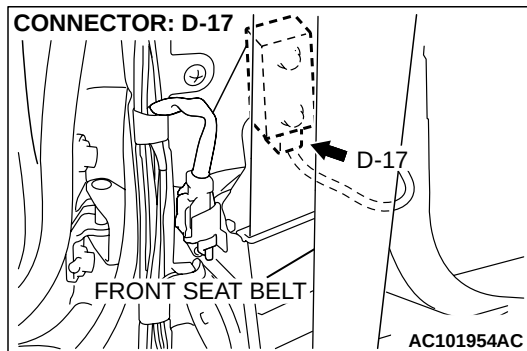
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 79: Side-Airbag Module (LH) (Squib) System Fault 5 for Power Supply Circuit
DTC 93: Side-Airbag Module (LH) (Squib) System Fault 6 for Communication System

Side Impact Sensor (LH) Power Supply Circuit



AC100931AB
W2J07M10AA



CIRCUIT OPERATION

The side impact sensor includes an analog G sensor and CPU, etc. The CPU monitors the analog G sensor output signal. If the CPU judges that the side-airbags should be deployed, it sends a fire signal to the SRS-ECU to deploy the side-airbags. Besides that, the CPU diagnoses the internal components of the side impact sensor. If a malfunction occurs, it requests the SRS-ECU to set a diagnostic trouble code.

DTC SET CONDITIONS

These DTC are set if communication between the side impact sensor (LH) and the SRS-ECU is not possible or communication is faulty.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the side impact sensor (LH)
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

STEP 1. Check the side impact sensor (LH). (Using scan tool MB991958, read the diagnostic trouble code.)

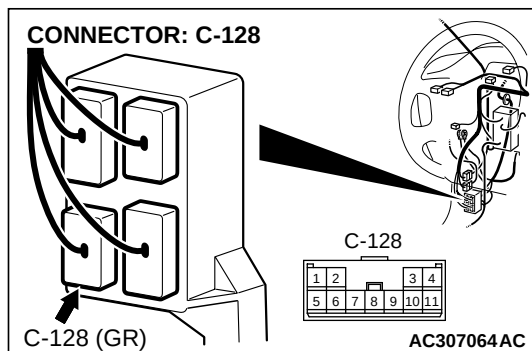
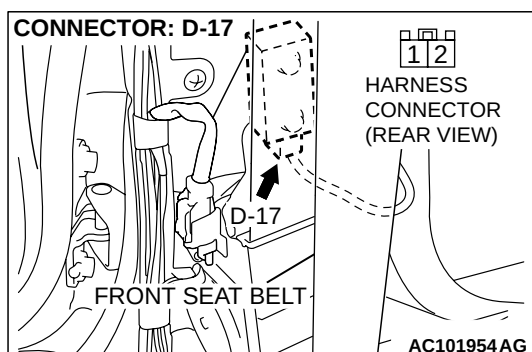
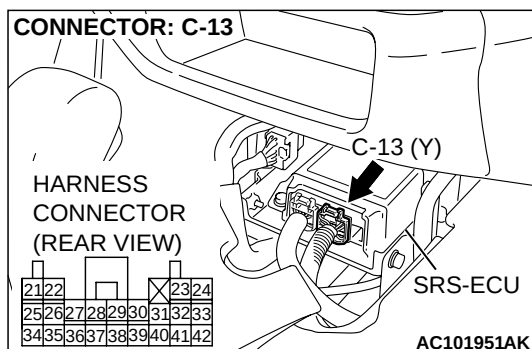
- (1) Disconnect the negative battery terminal.
- (2) Replace the side impact sensor (LH) with the side impact sensor (RH).
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 89 or 96 set?

YES : Replace the side impact sensor (LH) with a new one.
(Refer to [P.52B-215.](#)) Then go to Step 3.

NO : Go to Step 2.

STEP 2. Check the harness wires for open circuit or short circuit between SRS-ECU connector C-13 (terminal No.34 and 36) and side impact sensor (LH) connector D-17 (terminal No.1 and 2).



NOTE: After inspecting intermediate connector C-128 inspect the wiring harness. If the intermediate connector C-128 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 3. If harness wires are in good condition, go to Step 3. If any harness wires between SRS-ECU connector C-13 and side impact sensor (LH) connector D-17 are damaged, repair them or install the sensor cable. Refer to [P.52B-215](#). Then go to Step 3.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.34 and 36) and side impact sensor (LH) connector D-17 (terminal No.1 and 2) in good condition?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 79 or 93 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-13 and side impact sensor (LH) connector D-17. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

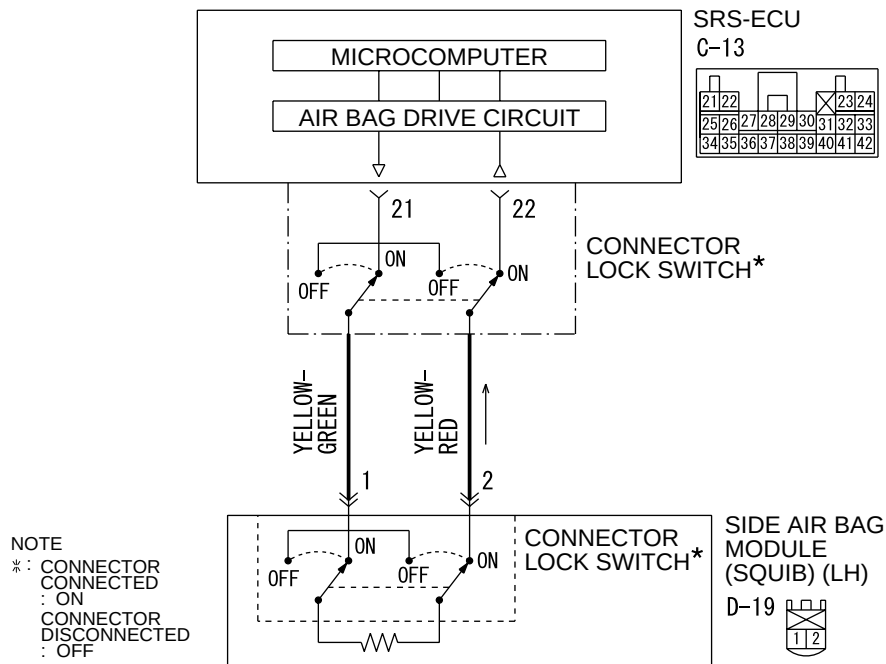
Q: Is DTC 79 or 93 set?

YES : Return to Step 1.

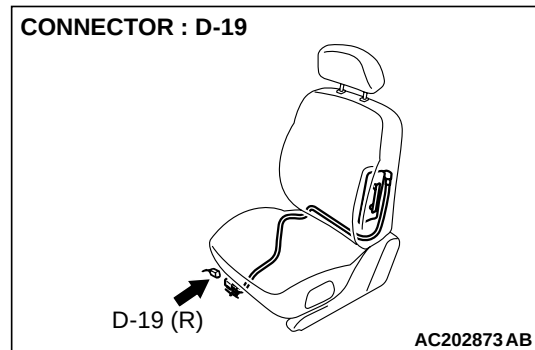
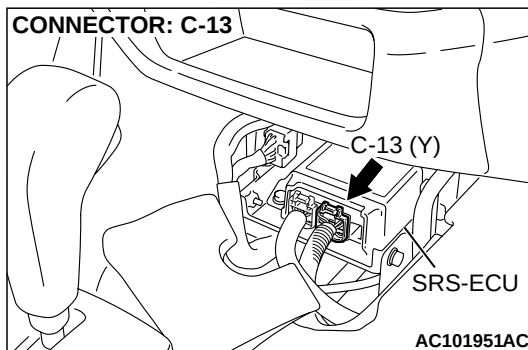
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 81: Side-Airbag Module (LH) (Squib) System Fault 1 (Short Circuit between Terminals of the Squib Circuit)

Side-Airbag Module (LH) (Squib) Circuit



W4J52M15AA



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the air bag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (LH) (squib).

TROUBLESHOOTING HINTS

- Improper engaged connector or defective short spring*
- Short circuit between the side-airbag module (LH) (squib) circuit terminals
- Damaged connector(s)
- Malfunction of the SRS-ECU

NOTE: *: The squib circuit connectors integrate a "short" spring (which prevents the air bag from deploying unintentionally due to static electricity by shorting the positive wire to the ground wire in the squib circuit when the connectors are disconnected) (Refer to [P.52B-2.](#)) Therefore, if connector C-13 or D-19 is damaged or improperly engaged, the short spring may not be released when the connector is connected.

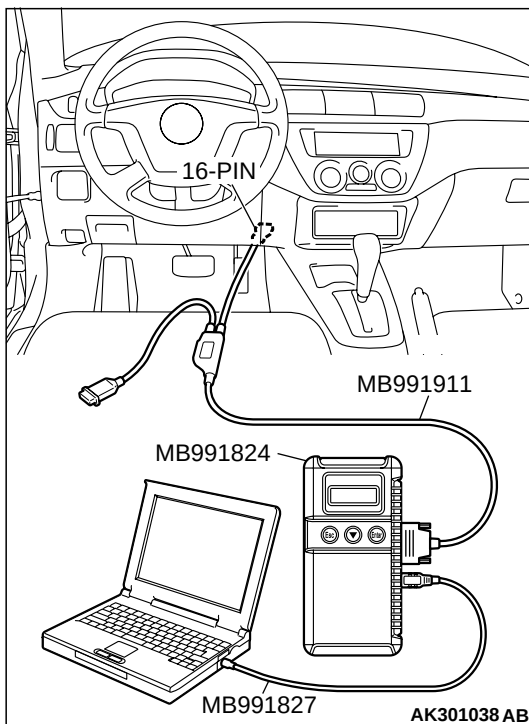
DIAGNOSIS**Required Special Tools:**

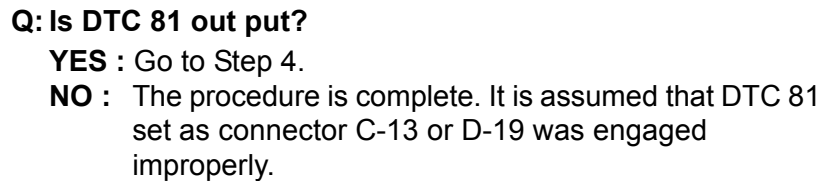
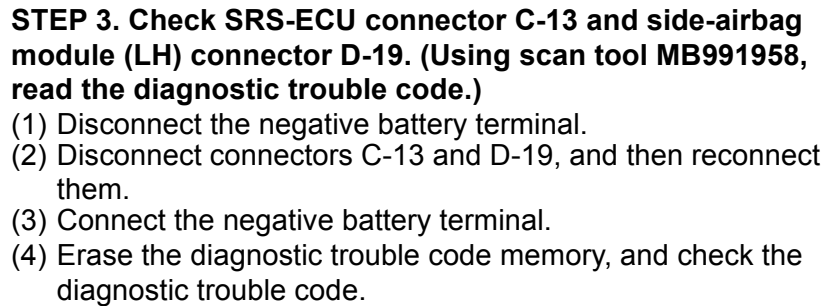
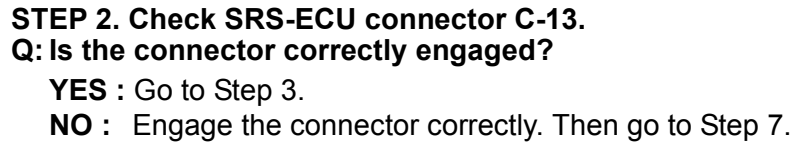
- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resister
- MB991866: Resister harness

STEP 1. Using scan tool MB991958, read the diagnostic trouble code.**Q: Is DTC 34 set?**

YES : Go to Step 2.

NO : Go to Step 3.

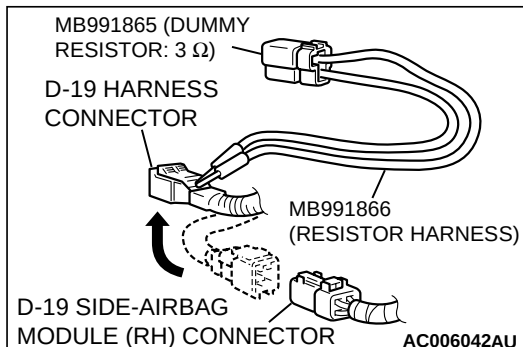




CONNECTOR : D-19HARNESS
CONNECTOR
(REAR VIEW)

D-19 (R)

AC202873 AG

**STEP 4. Check the side-airbag module (LH). (Using scan tool MB991958, read the diagnostic trouble code.)**

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (LH) connector D-19.

- (3) Connect special tool MB991865 to special tool MB991866.

⚠ CAUTION

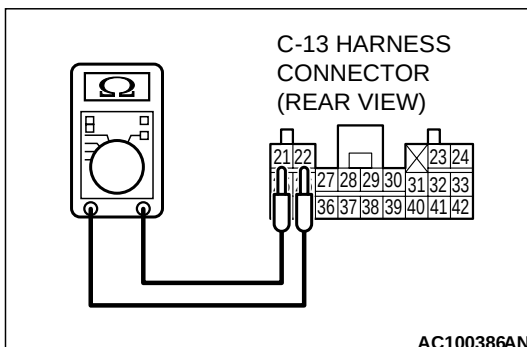
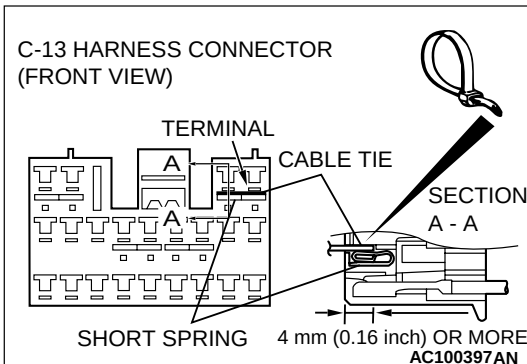
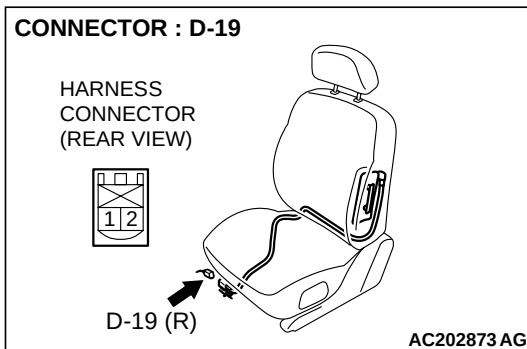
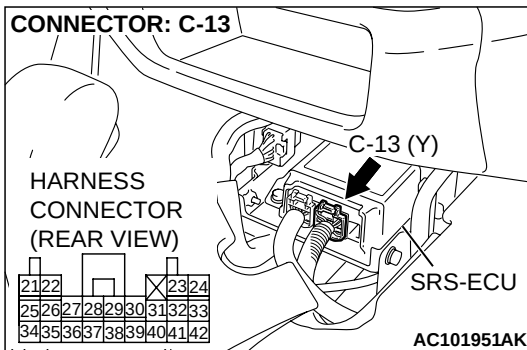
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-19 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 81 set?

YES : Go to Step 5.

NO : Replace the seat back assembly of the front seat (LH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#)) Then go to Step 7.



STEP 5. Check the side-airbag module (LH) circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the side-airbag module (LH) connector D-19 to short the squib circuit.

(2) Disconnect side-airbag module (LH) connector D-19.

⚠ CAUTION

Insert an insulator such as a cable tie to a depth of 4mm (0.16 inch) or more, otherwise the short spring will not be released.

(3) Insert a cable tie [3 mm (0.12 inch) wide, 0.5 mm (0.02 inch) thick] between C-13 harness connector terminals 21, 22 and the short spring to release the short spring.

⚠ CAUTION

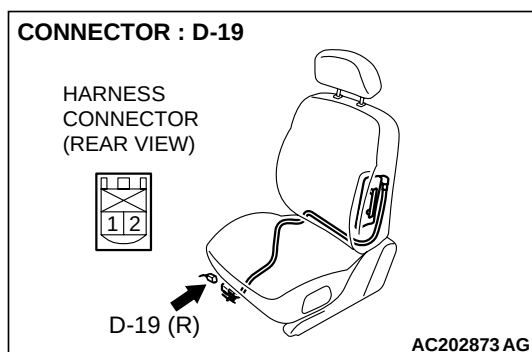
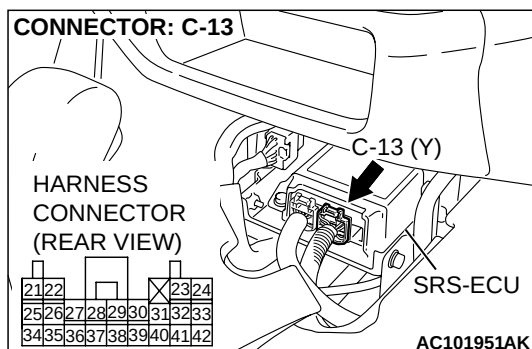
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(4) Check for continuity between terminals 21 and 22.
It should be open circuit.

Q: Is the circuit normal?

YES : Go to Step 6.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 81 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 7.



STEP 6. Check the harness wires for short circuit between SRS-ECU connector C-13 (terminal No.21 and 22) and side-airbag module (LH) connector D-19 (terminal No.1 and 2).

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.21 and 22) and side-airbag module (LH) connector D-19 (terminal No.1 and 2) in good condition?

YES : Go to Step 7.

NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (LH) connector D-19. Then go to Step 7.

STEP 7. CRecheck for diagnostic trouble code.

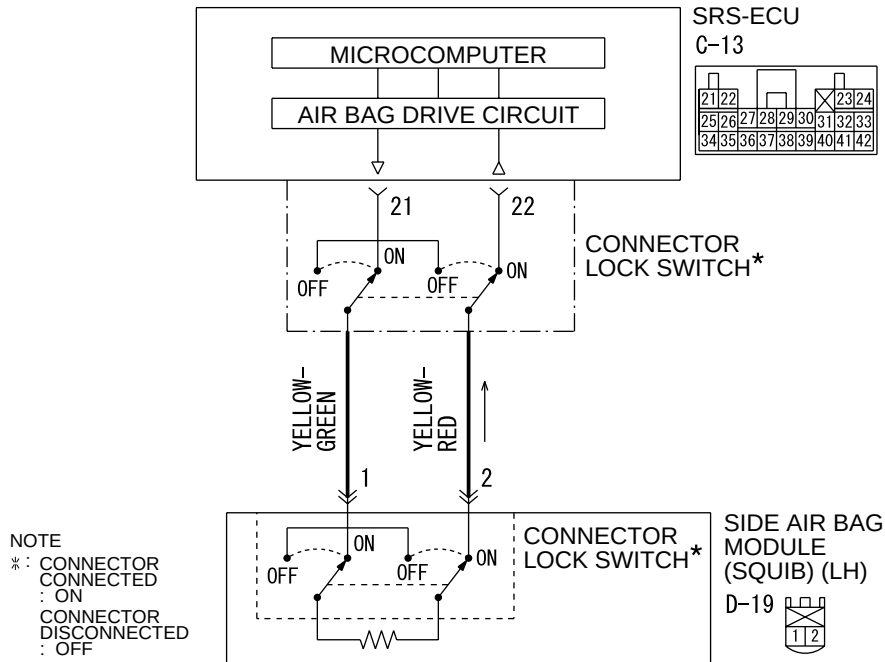
Q: Is DTC 81 set?

YES : Return to Step 1.

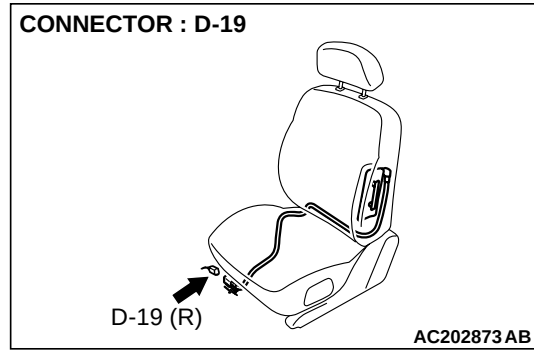
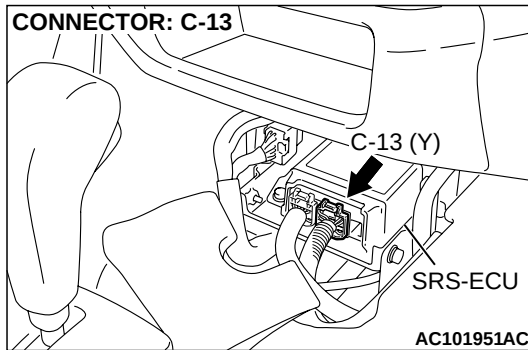
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 82: Side-Airbag Module (LH) (Squib) System Fault 2 (Open in the Squib Circuit)

Side-Airbag Module (LH) (Squib) Circuit



W4J52M15AA



CIRCUIT OPERATION

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (LH) (squib).

TROUBLESHOOTING HINTS

- Open circuit in the side-airbag module (squib) (LH) circuit
- Improper connector contact
- Malfunction of the SRS-ECU

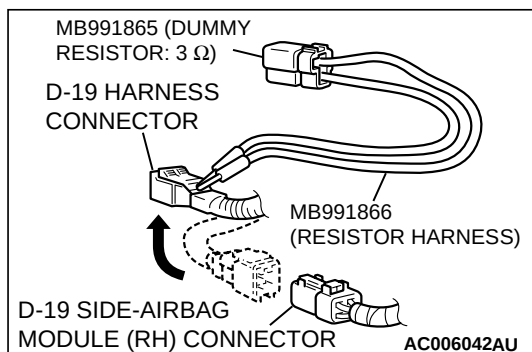
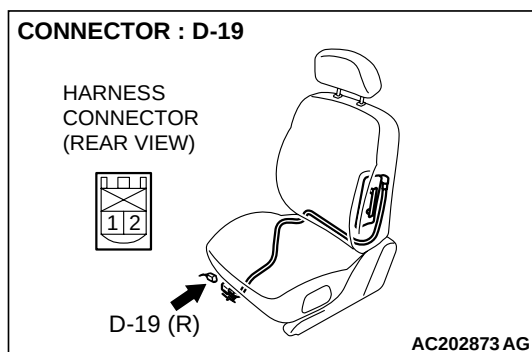
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the side-airbag module (LH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (LH) connector D-19.



- (3) Connect special tool MB991865 to special tool MB991866.

⚠ CAUTION

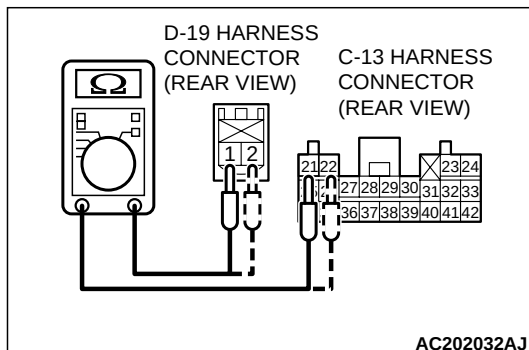
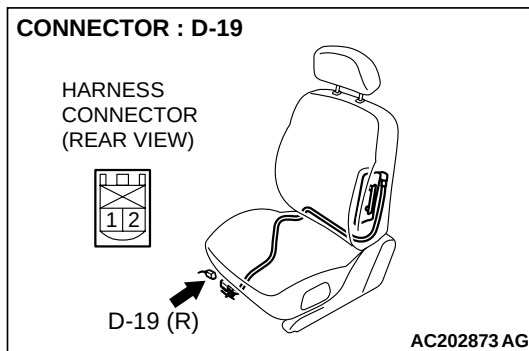
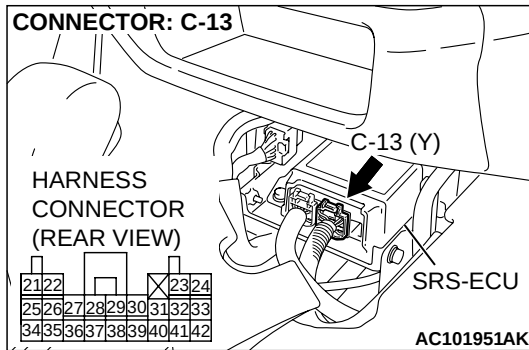
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-19 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 82 set?

YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (LH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#)) Then go to Step 3.



STEP 2. Check the harness for open circuit between the SRS-ECU connector C-13 (terminal No.21 and 22) and the side-airbag module (LH) D-19 (terminal No.1 and 2).

(1) Disconnect SRS-ECU connector C-13.

(2) Disconnect side-airbag module (LH) connector D-19.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between the following terminals.

- SRS-ECU connector C-13 (terminal No.21) and the side-airbag module (LH) connector D-19 (terminal No.1)
- SRS-ECU connector C-13 (terminal No.22) and the side-airbag module (LH) connector D-19 (terminal No.2)

It should be less than 2 ohms.

Q: Does continuity exist?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 82 sets, replace the SRS-ECU. (Refer to P.52B-202.) Then go to Step 3.

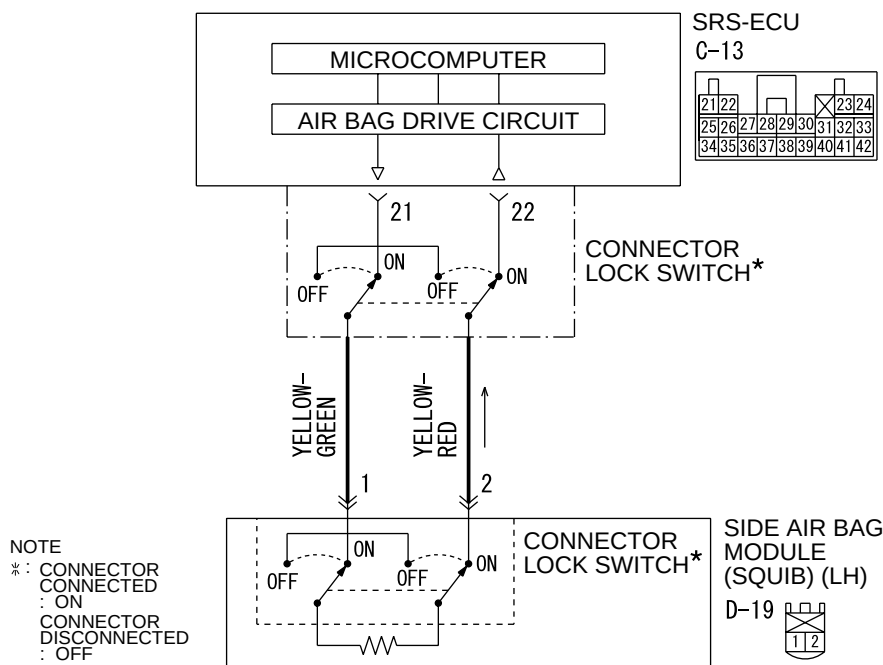
NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (LH) connector D-19. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

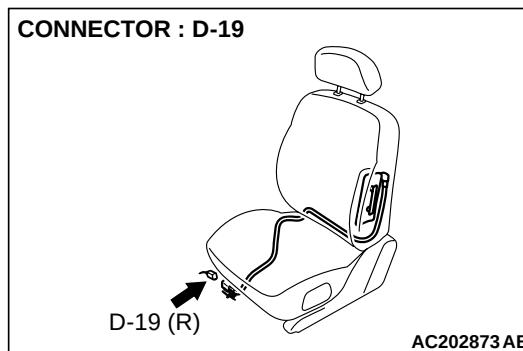
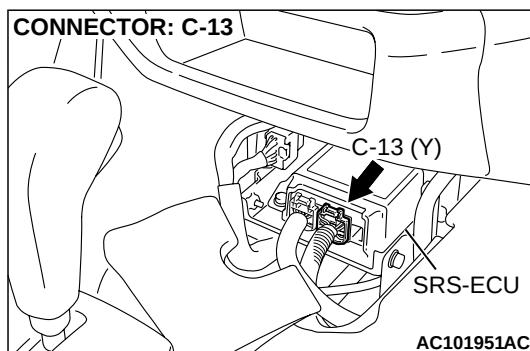
Q: Is DTC 82 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 85: Side-Airbag Module (LH) (Squib) System Fault Power Supply Circuit (Short-Circuited to Power Supply)**Side-Airbag Module (LH) (Squib) Circuit**

W4J52M15AA

**CIRCUIT OPERATION**

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (LH) (squib).

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Short to the power supply in the side-airbag module (LH) (squib) harness
- Malfunction of the SRS-ECU

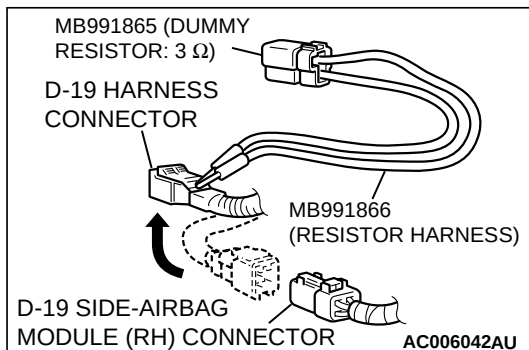
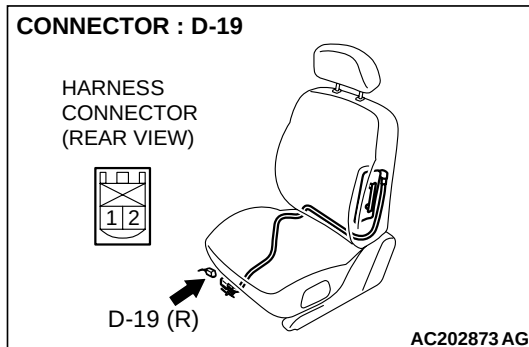
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the side-airbag module (LH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (LH) connector D-19.



- (3) Connect special tool MB991865 to special tool MB991866.

⚠ CAUTION

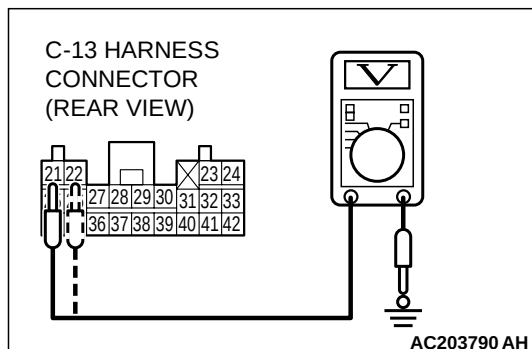
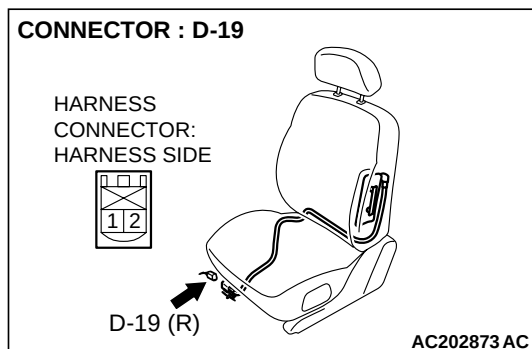
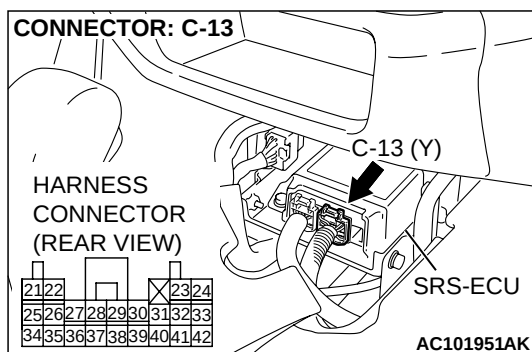
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-19 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 85 set?

YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (LH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#)) Then go to Step 4.



STEP 2. Check the side-airbag module (LH) circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

⚠ DANGER

To prevent the air bag from deploying unintentionally, disconnect the side-airbag module (LH) connector D-19 to short the squib circuit.

(2) Disconnect side-airbag module (LH) connector D-19.

(3) Turn the ignition switch to the "ON" position.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

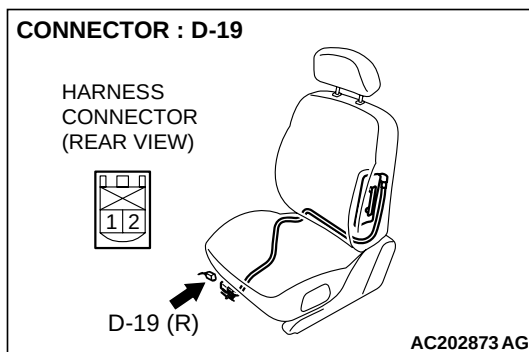
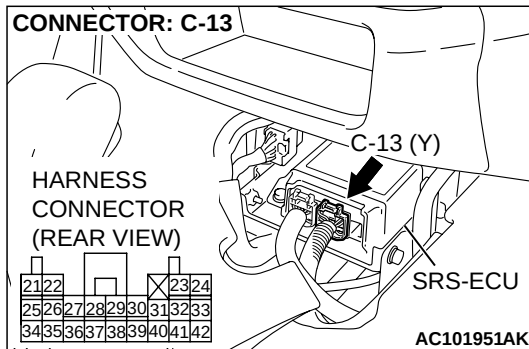
(4) Measure the voltage between terminals 21, 22 and body ground.

Voltage should measure 0 volt.

Q: Is the measured voltage within the specified range?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 85 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.

NO : Go to Step 3.



STEP 3. Check the harness wires for short circuit to power supply between SRS-ECU connector C-13 (terminal No.21 and 22) and side-airbag module (LH) connector D-19 (terminal No.1 and 2).

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.21 and 22) and side-airbag module (LH) connector D-19 (terminal No.1 and 2) in good condition?

YES : Go to Step 4.

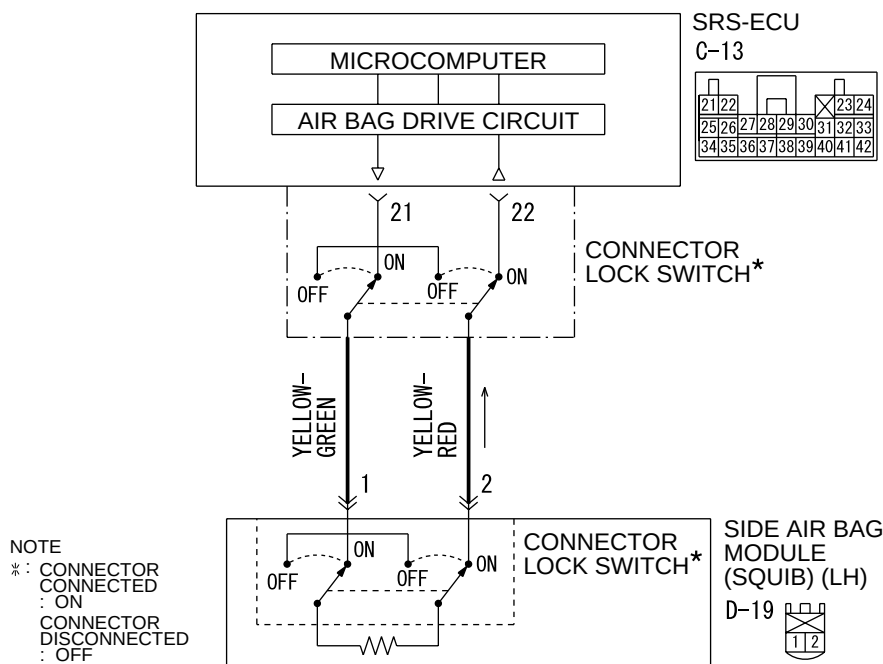
NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (LH) connector D-19. Then go to Step 4.

STEP 4. Recheck for diagnostic trouble code.

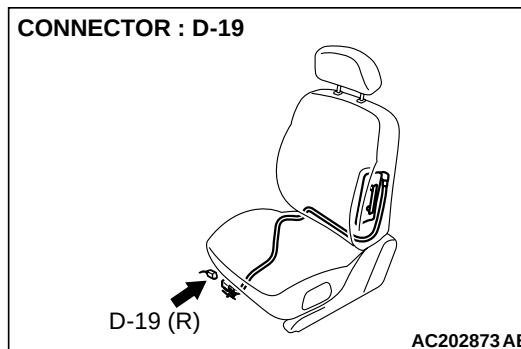
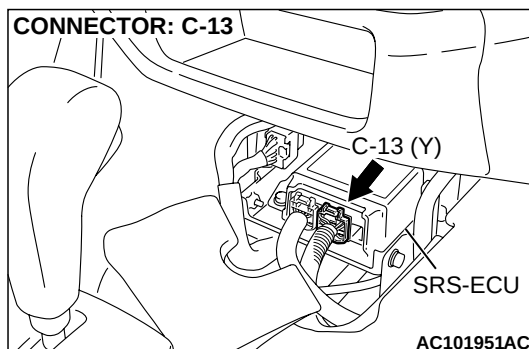
Q: Is DTC 85 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 86: Side-Airbag Module (LH) (Squib) System Fault Ground Circuit (Short-Circuited to Ground)**Side-Airbag Module (LH) (Squib) Circuit**

W4J52M15AA

**CIRCUIT OPERATION**

- The SRS-ECU judges how severe a collision is by detecting signals from the left and right side impact sensors. If the impact is over a predetermined level, the SRS-ECU outputs an ignition signal. At this time, if the side-airbag safing G-sensor is on, the SRS side-airbag will inflate.
- The ignition signal is input to the side-airbag module to inflate the side-airbag.

DTC SET CONDITIONS

This DTC is set if there is abnormal resistance between the input terminals of the side-airbag module (LH) (squib).

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Short to ground in the left hand side-airbag module (squib) harness
- Malfunction of the SRS-ECU

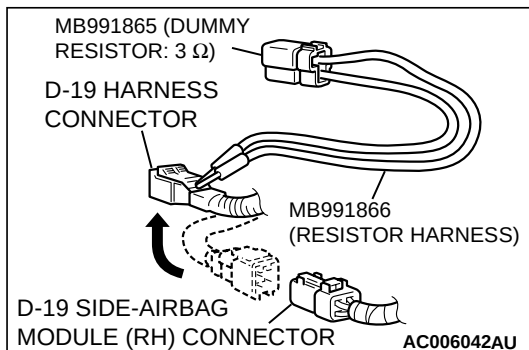
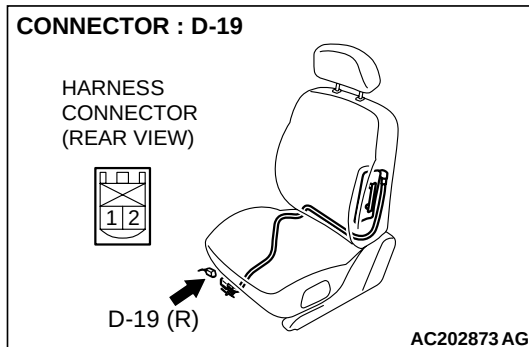
DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991865: Dummy resistor
- MB991866: Resistor harness

STEP 1. Check the side-airbag module (LH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Disconnect the side-airbag module (LH) connector D-19.



- (3) Connect special tool MB991865 to special tool MB991866.

CAUTION

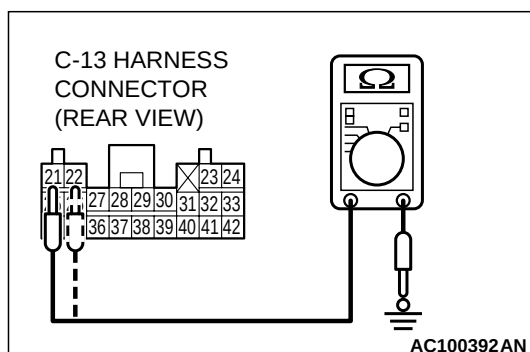
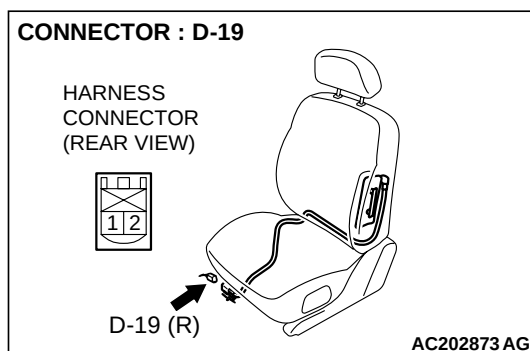
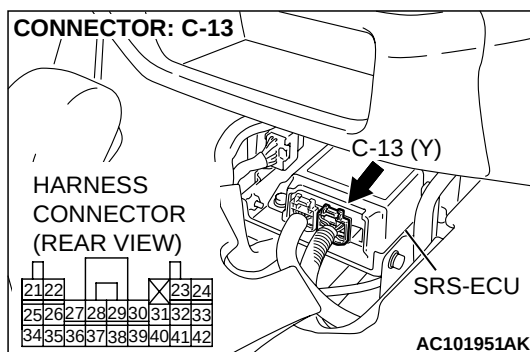
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (4) Insert special tool MB991866 into the D-19 harness connector by backprobing.
- (5) Connect the negative battery terminal.
- (6) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 86 set?

YES : Go to Step 2.

NO : Replace the seat back assembly of the front seat (LH). (Refer to GROUP 52A, Front Seat [P.52A-22.](#)) Then go to Step 4.



STEP 2. Check the side-airbag module (LH) circuit at the SRS-ECU connector C-13.

(1) Disconnect SRS-ECU connector C-13.

(2) Disconnect side-airbag module (LH) connector D-19.

CAUTION

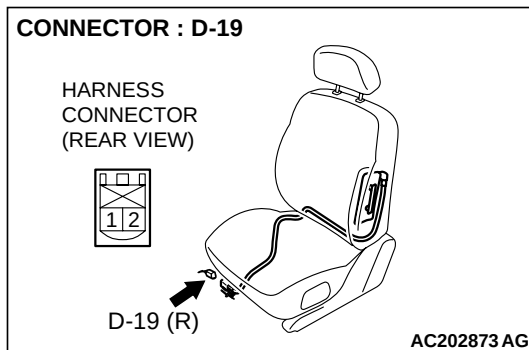
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

(3) Check for continuity between C-13 harness connector terminals 21, 22 and body ground. It should be open circuit.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 86 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 4.



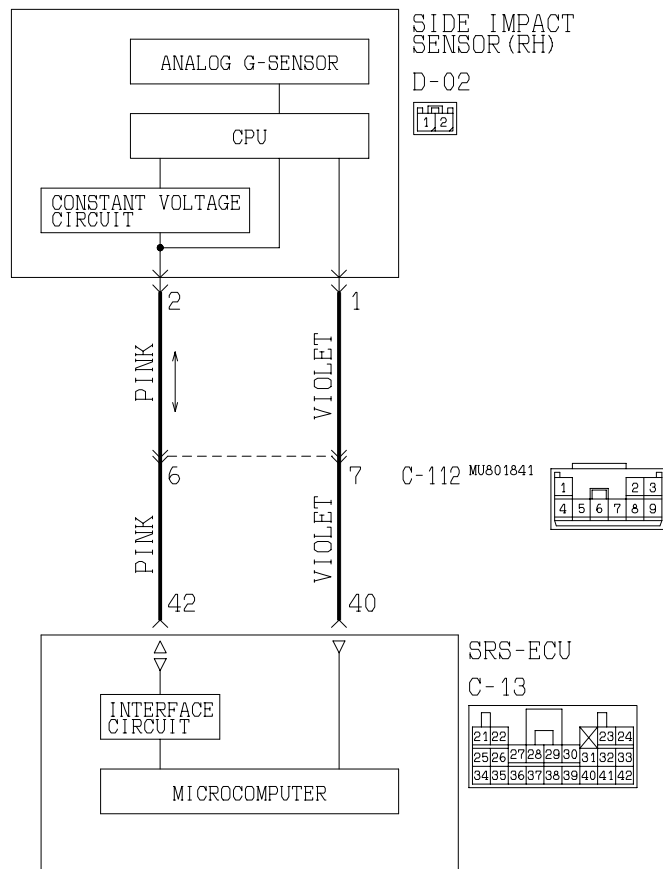
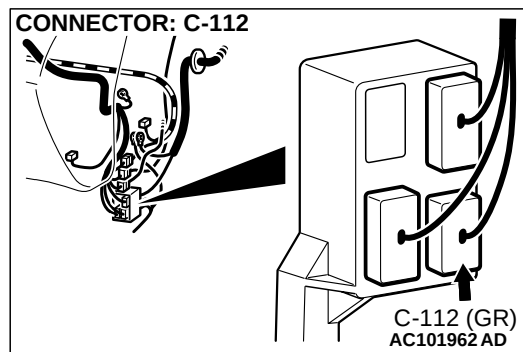
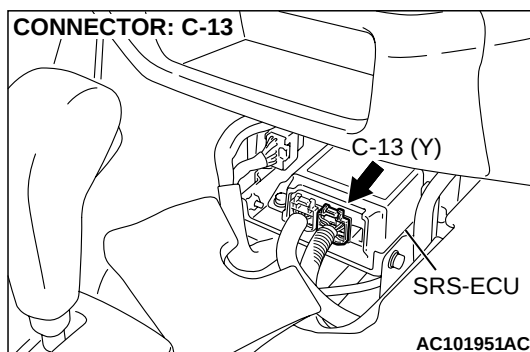
NO : Repair the harness wires between SRS-ECU connector C-13 and side-airbag module (LH) connector D-19. Then go to Step 4.

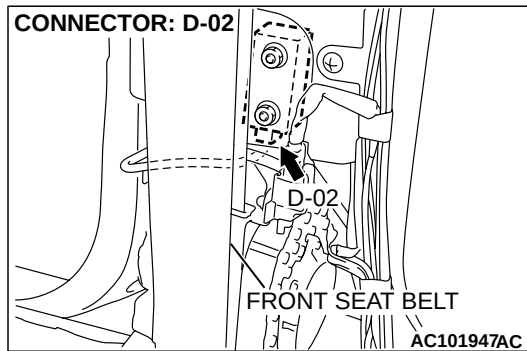
NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction P.00-6.)

DTC 89: Side-Airbag Module (RH) (Squib) System Fault 5 for Power Supply Circuit

DTC 96: Side-Airbag Module (RH) (Squib) System Fault 6 for Communication System

Side Impact Sensor (RH) Power Supply Circuit

AC100932AB
W2J07M11AA



CIRCUIT OPERATION

The side impact sensor includes an analog G sensor and CPU, etc. The CPU monitors the analog G sensor output signal. If the CPU judges that the side-airbags should be deployed, it sends a fire signal to the SRS-ECU to deploy the side-airbags. Besides that, the CPU diagnoses the internal components of the side impact sensor. If a malfunction occurs, it requests the SRS-ECU to set a diagnostic trouble code.

DTC SET CONDITIONS

These DTC are set if communication between the side impact sensor (RH) and the SRS-ECU is not possible or faulty.

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the side impact sensor (RH)
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

STEP 1. Check the side impact sensor (RH). (Using scan tool MB991958, read the diagnostic trouble code.)

- (1) Disconnect the negative battery terminal.
- (2) Replace the side impact sensor (RH) with the side impact sensor (LH).
- (3) Connect the negative battery terminal.
- (4) Erase the diagnostic trouble code memory, and check the diagnostic trouble code.

Q: Is DTC 79 or 93 out put?

YES : Replace the side impact sensor (RH) with a new one.
(Refer to [P.52B-215.](#)) Go to Step 3.

NO : Go to Step 2.

CONNECTOR: C-13

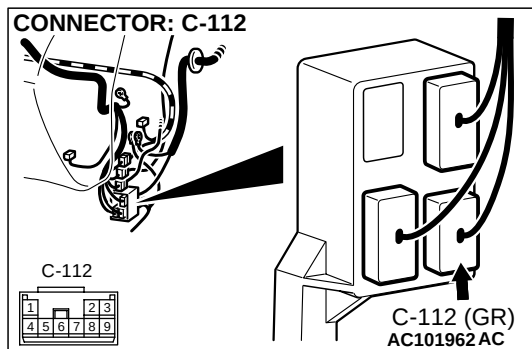
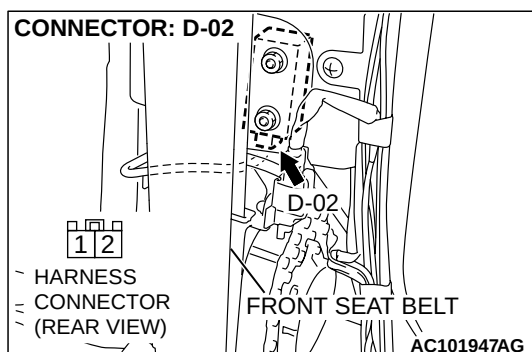
HARNESS CONNECTOR (REAR VIEW)

21	22			23	24
25	26	27	28	29	30
31	32	33			
34	35	36	37	38	39
40	41	42			

C-13 (Y)

SRS-ECU

AC101951AK



NOTE: After inspecting intermediate connector D-112 inspect the wiring harness. If the intermediate connector D-112 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 3. If harness wires are in good condition, go to Step 3. If any harness wires between SRS-ECU connector C-13 and side impact sensor (RH) connector D-02 are damaged, repair them or install the sensor cable. Refer to [P.52B-215](#). Then go to Step 3.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.40 and 42) and side impact sensor (RH) connector D-02 (terminal No.1 and 2) in good condition?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 89 or 96 sets, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-13 and side impact sensor (RH) connector D-02. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

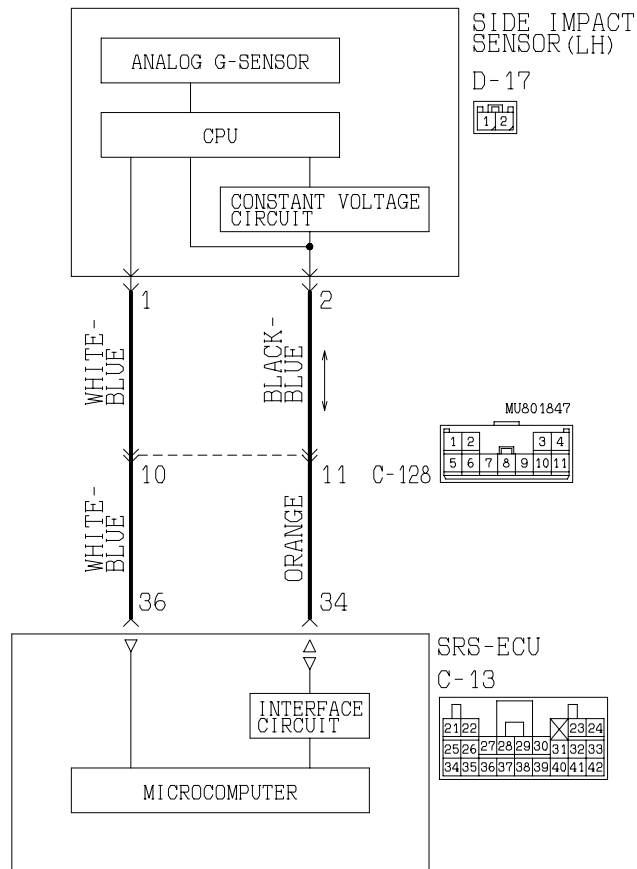
Q: Is DTC 89 or 96 set?

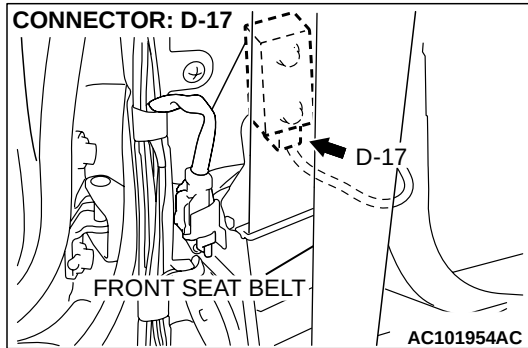
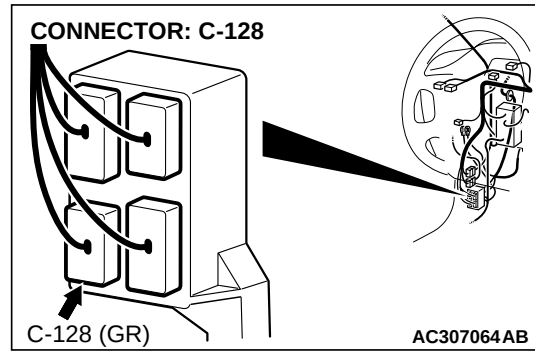
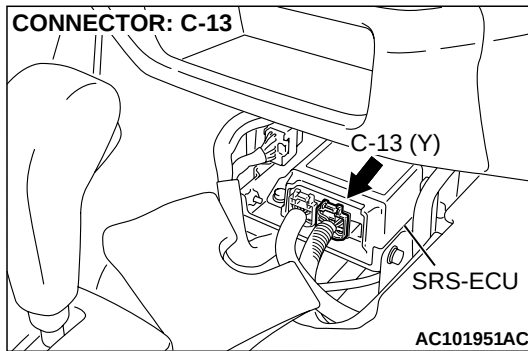
YES : Refer to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6.](#))

DTC 91: Side Impact Sensor (LH) Power Supply Circuit System

Side Impact Sensor (LH) Power Supply Circuit





CIRCUIT OPERATION

The side impact sensor includes an analog G sensor and CPU, etc. The CPU monitors the analog G sensor output signal. If the CPU judges that the side-airbags should be deployed, it sends a fire signal to the SRS-ECU to deploy the side-airbags. Besides that, the CPU diagnoses the internal components of the side impact sensor. If a malfunction occurs, it requests the SRS-ECU to set a diagnostic trouble code.

DTC SET CONDITIONS

This DTC will set when the power supply voltage to the side impact sensor (LH) remains less than a pre-determined value for five seconds. However, if the system returns to normal condition, code number 91 will be erased automatically and the SRS warning light will go out.

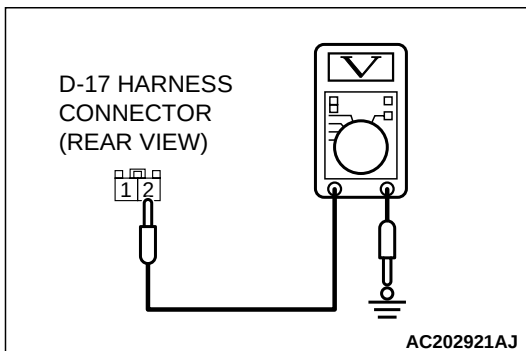
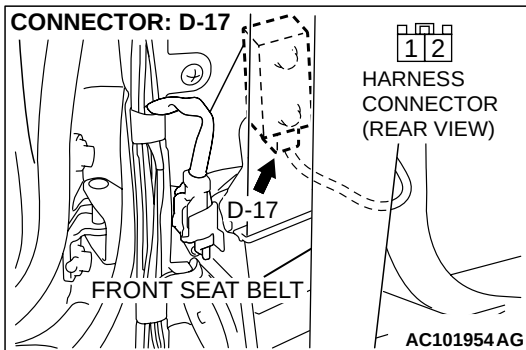
TROUBLESHOOTING HINTS

- Damaged wiring harness or connectors
- Malfunction of the side air bag module (LH) (squib)
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991223 (MB991222): Harness set (Probe)



STEP 1. Check the side impact sensor (LH) power supply circuit at the side impact sensor (LH) connector D-17.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect side impact sensor (LH) connector D-17, and measure at the wiring harness side.
- (3) Connect the negative battery terminal.
- (4) Turn the ignition switch to the "ON" position.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

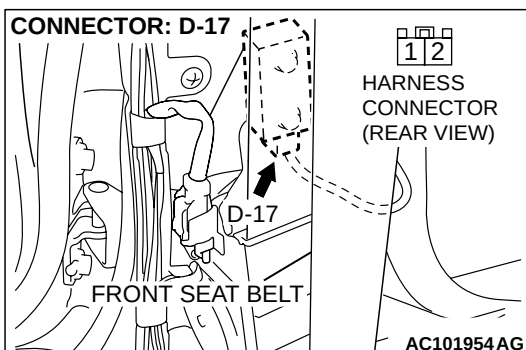
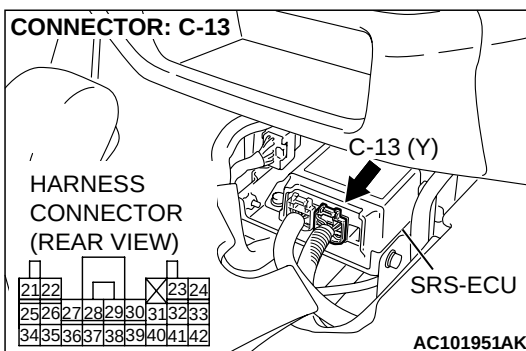
- (5) Measure the voltage between D-17 harness connector terminal 2 and the ground.
Voltage should measure 9 volts or more.

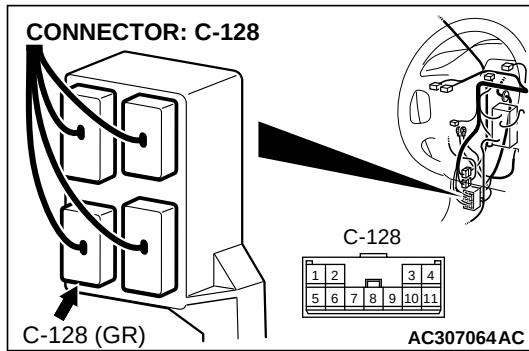
Q: Is the measured voltage within the specified range?

YES : Replace the side impact sensor (LH). (Refer to [P.52B-215.](#)) Then go to Step 3.

NO : Go to Step 2.

STEP 2. Check the harness wires for open circuit or short circuit between SRS-ECU connector C-13 (terminal No.34 and 36) and side impact sensor (LH) connector D-17 (terminal No.1 and 2).





NOTE: After inspecting intermediate connector C-128 inspect the wiring harness. If the intermediate connector C-128 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 3.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.34 and 36) and side impact sensor (LH) connector D-17 (terminal No.1 and 2) in good condition?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 91 sets, replace the SRS-ECU. (Refer to [P.52B-202](#).) Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-13 and side impact sensor (LH) connector D-17. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

Q: Is DTC 91 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

DTC 92: Side Impact Sensor (LH) System for Fault 1

DTC 95: Side Impact Sensor (RH) System for Fault 1

DTC SET CONDITIONS

These DTC are set if the followings are detected from the analog G-sensor inside the side impact sensor output.

- Analog G-sensor is not operating.
- Analog G-sensor characteristics are abnormal.

- Analog G-sensor output is abnormal.

TROUBLESHOOTING HINTS

Malfunction of side impact sensor (LH) (for DTC 92) and side impact sensor (RH) (for DTC 95)

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

Replace side impact sensor (LH) (for DTC 92) and side impact sensor (RH) (for DTC 95). (Refer to [P.52B-215](#).)

Check the diagnostic trouble code.

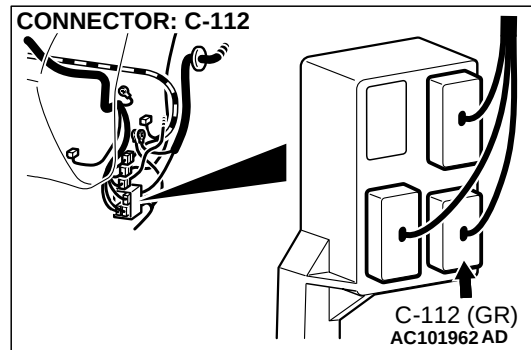
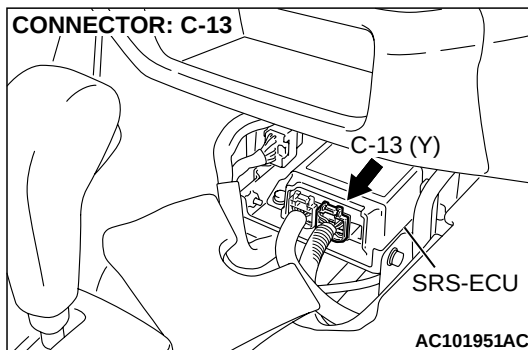
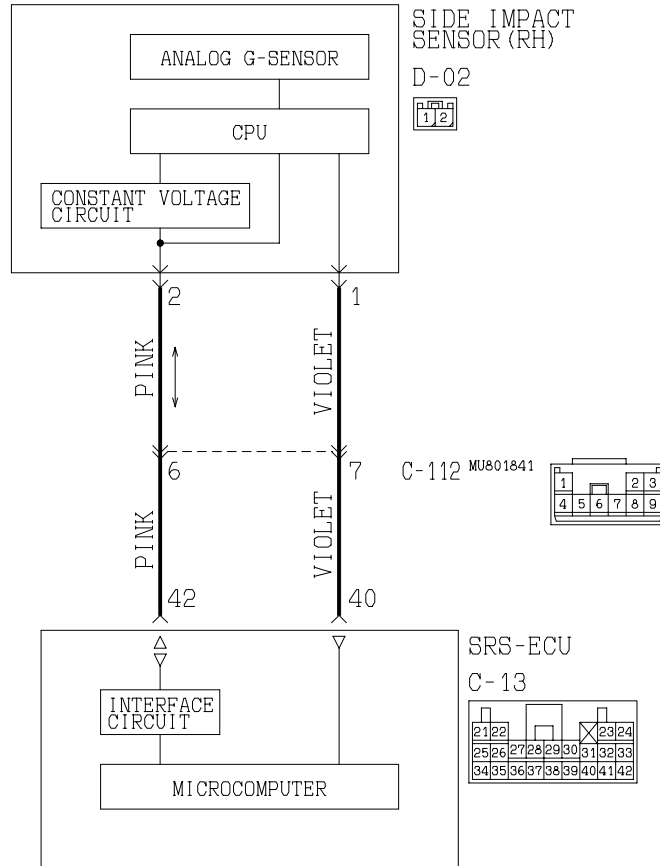
Q: Is any of DTC 92 or 95 set?

YES : Replace the SRS-ECU. (Refer to [P.52B-202](#).)

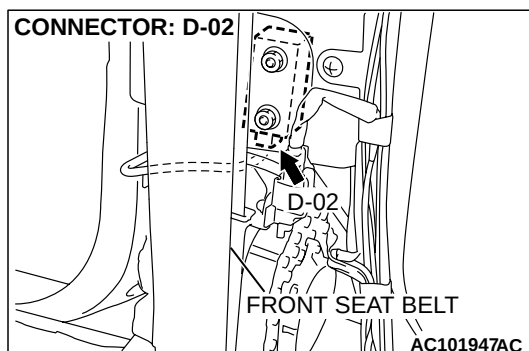
NO : The procedure is complete.

DTC 94: Side Impact Sensor (RH) Power Supply Circuit System

Side Impact Sensor (RH) Power Supply Circuit



AC100932AB
W2J07M11AA



CIRCUIT OPERATION

The side impact sensor includes an analog G sensor and CPU, etc. The CPU monitors the analog G sensor output signal. If the CPU judges that the side-airbags should be deployed, it sends a fire signal to the SRS-ECU to deploy the side-airbags. Besides that, the CPU diagnoses the internal components of the side impact sensor. If a malfunction occurs, it requests the SRS-ECU to set a diagnostic trouble code.

DTC SET CONDITIONS

This DTC is set if the power supply voltage of the side impact sensor (RH) drops below the rated value for a continuous period of 5 seconds or more. However, DTC number 94 will be automatically cleared and the SRS warning light will switch off if the condition returns to normal.

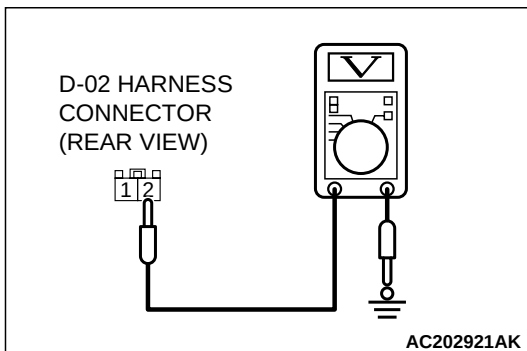
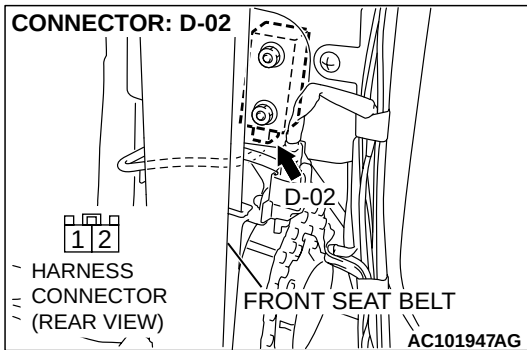
TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the side-airbag module (RH) (squib)
- Malfunction of the SRS-ECU

DIAGNOSIS

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)
- MB991223 (MB991222): Harness set (Probe)



STEP 1. Check the side impact sensor (RH) power supply circuit at the side impact sensor D-02.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect side impact sensor (RH) connector D-02, and measure at the wiring harness side.
- (3) Connect the negative battery terminal.
- (4) Turn the ignition switch to the "ON" position.

⚠ CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

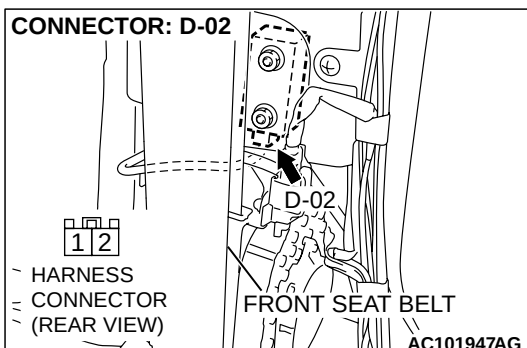
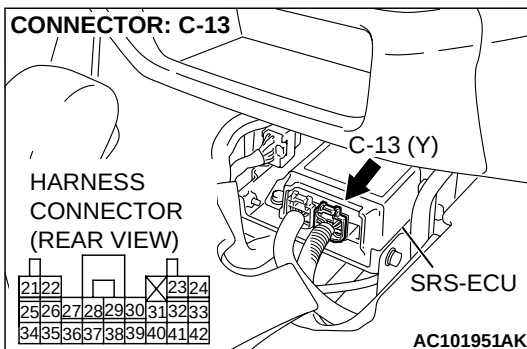
- (5) Measure the voltage between the D-02 harness connector terminal 2 and body ground.
Voltage should measure 9 volts or more.

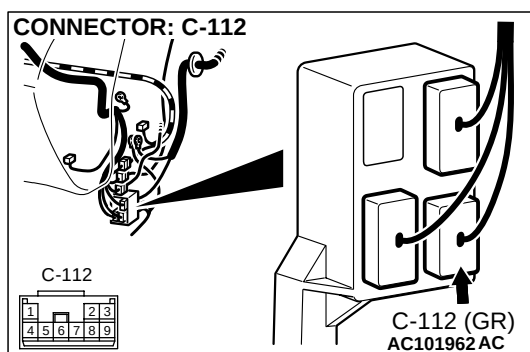
Q: Is the measured voltage within the specified range?

YES : Replace the side impact sensor (RH). (Refer to [P.52B-215.](#)) Then go to Step 3.

NO : Go to Step 2.

STEP 2. Check the harness wires for open circuit or short circuit between SRS-ECU connector C-13 (terminal No.40 and 42) and side impact sensor (RH) connector D-02 (terminal No.1 and 2).





NOTE: After inspecting intermediate connector D-112, inspect the wiring harness. If the intermediate connector D-112 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Then go to Step 3.

Q: Are the harness wires between SRS-ECU connector C-13 (terminal No.40 and 42) and side impact sensor (RH) connector D-02 (terminal No.1 and 2) in good condition?

YES : Erase the diagnostic trouble code memory, and check the diagnostic trouble code. If DTC 94 sets, replace the SRS-ECU. (Refer to [P.52B-202](#)). Then go to Step 3.

NO : Repair the harness wires between SRS-ECU connector C-13 and side impact sensor (RH) connector D-02. Then go to Step 3.

STEP 3. Recheck for diagnostic trouble code.

Q: Is DTC 94 set?

YES : Return to Step 1.

NO : The procedure is complete. (If no malfunctions are found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

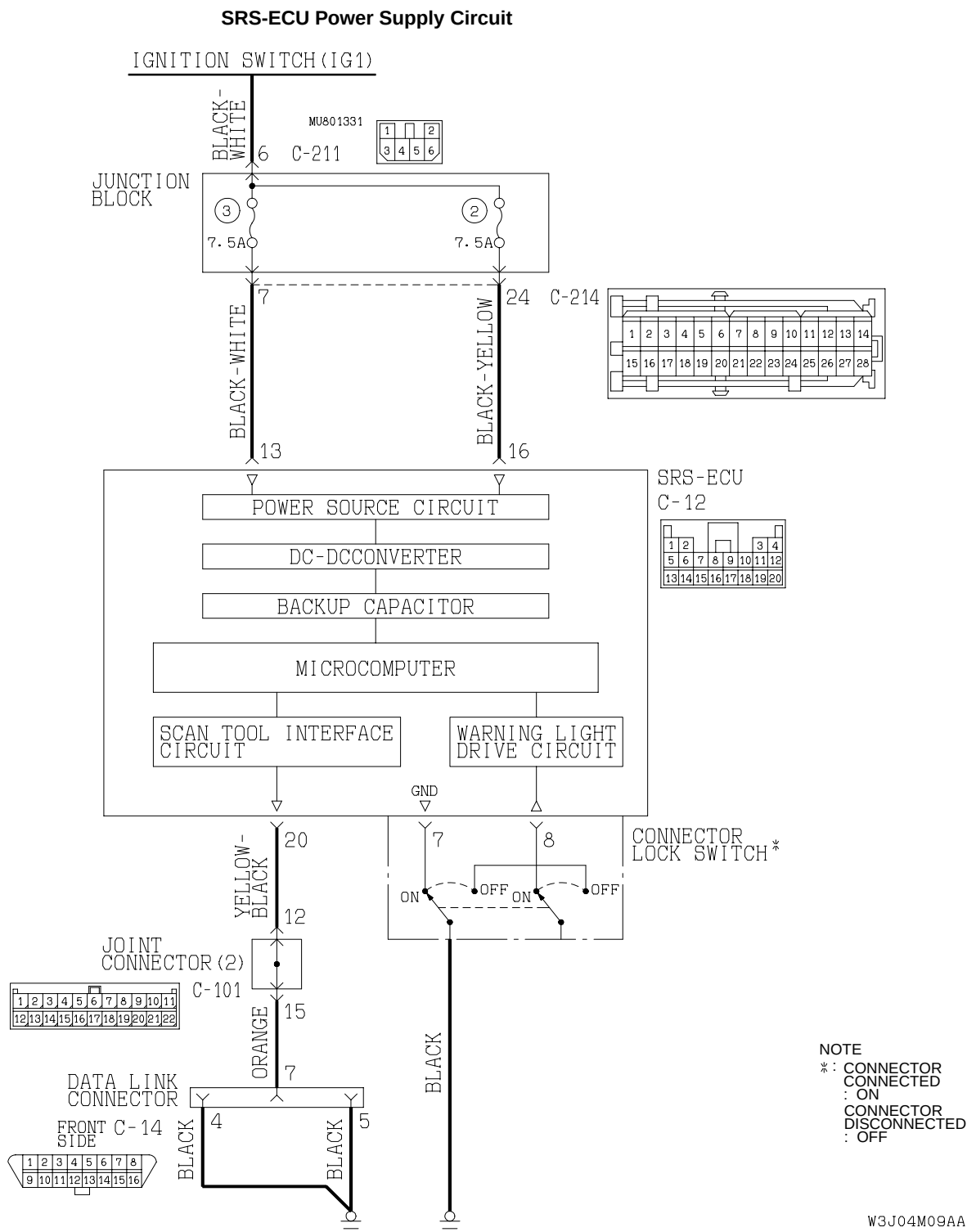
TROUBLE SYMPTOM CHART

M1524003400525

SYMPTOMS	INSPECTION PROCEDURE NO.	REFERENCE PAGE
Communication with scan tool MB991958 is not possible (Communication with all systems is not possible).	—	GROUP 13A, DIAGNOSIS P.13A-714 <2.0L ENGINE>. GROUP 13B, DIAGNOSIS P.13B-727 . <2.4L ENGINE>
Communication with scan tool MB991958 is not possible (Communication is not possible with SRS).	1	P.52B-188
When the ignition switch is turned to the "ON" position (engine stopped), the SRS warning light does not illuminate.	Refer to DTC No.43.	P.52B-88
After the ignition switch is turned to the "ON" position, the SRS warning light does not go off within approximately seven seconds.	Refer to DTC No.43.	P.52B-95

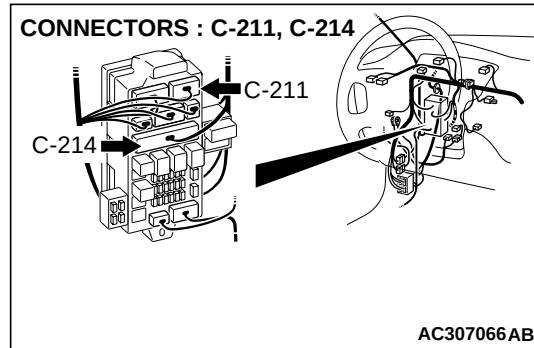
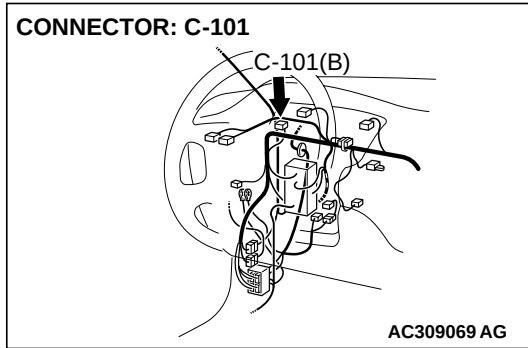
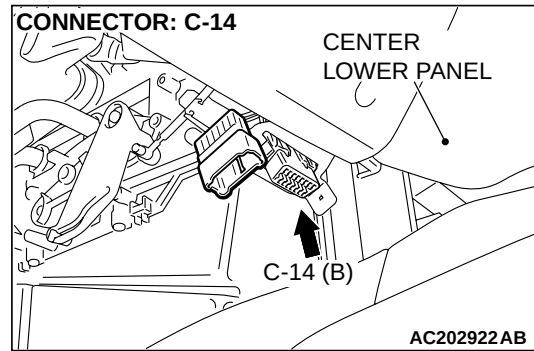
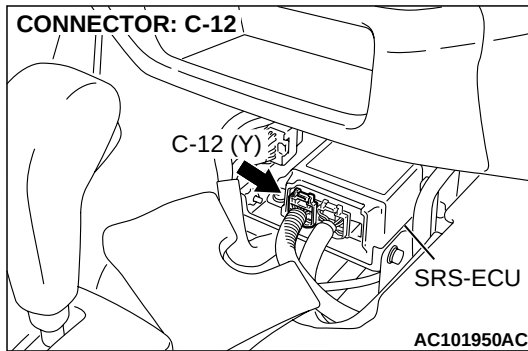
SYMPTOM PROCEDURES

INSPECTION PROCEDURE 1: Communication with scan tool MB991958 is not possible
(Communication is not possible with SRS).



W3J04M09AA

AC202998AB



CIRCUIT OPERATION

- The SRS-ECU is powered from the ignition switch (IG1).
- The SRS-ECU power is supplied from two circuits. Even if one circuit is shut off, the air bag can inflate.
- The SRS system diagnosis can be done by connecting scan tool MB991958 to the data link connector.

TECHNICAL DESCRIPTION (COMMENT)

If communication is not possible with the SRS only, the cause is probably an open circuit in the on-board diagnostic output circuit of the SRS or in the power circuit (including ground circuit).

TROUBLESHOOTING HINTS

- Damaged wiring harnesses or connectors
- Malfunction of the SRS-ECU

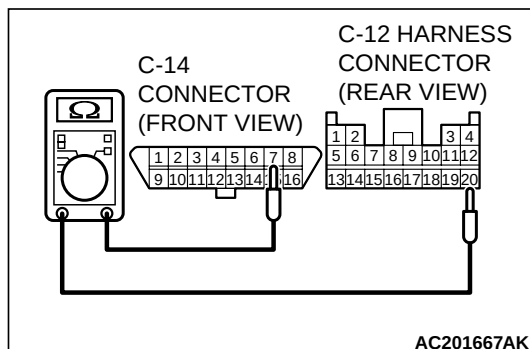
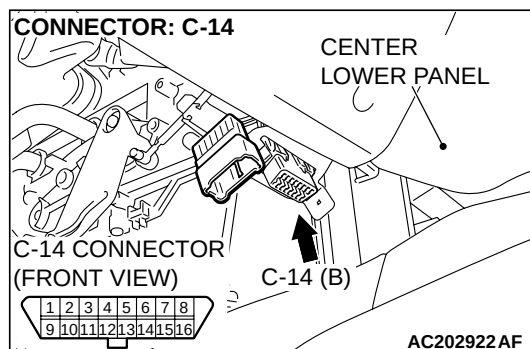
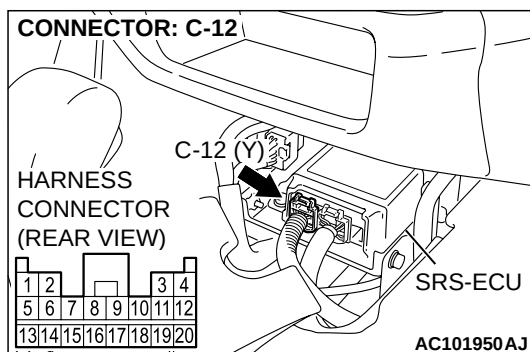
DIAGNOSIS

STEP 1. Check that the scan tool can communicate with the other systems.

Q: Can the scan tool communicate with the other systems?

YES : Go to Step 2.

NO : Refer to GROUP 13A, Diagnosis [P.13A-714](#) <2.0L ENGINE> or GROUP 13B, Diagnosis [P.13B-727](#) <2.4L ENGINE>.



STEP 2. Check the communication line between the SRS-ECU and the scan tool.

- (1) Disconnect SRS-ECU connector C-12 and data link connector C-14 and measure at the wiring harness side.

⚠ CAUTION

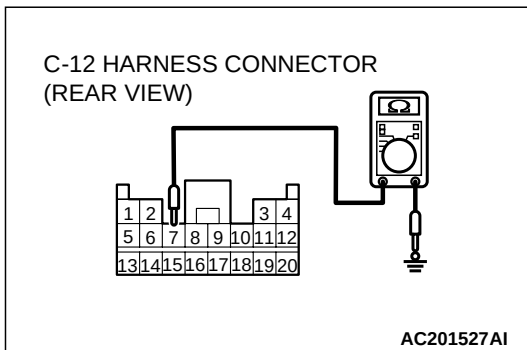
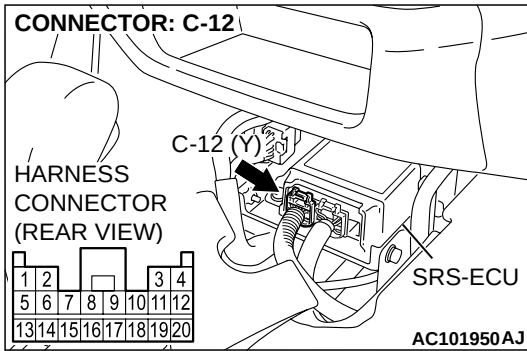
Do not insert a test probe into the terminal of the SRS-ECU connector C-12 from its front side directly as the connector contact pressure may be weakened.

- (2) Check for continuity between the following terminals.
- SRS-ECU connector C-12 (terminal No.20) and data link connector C-14 (terminal No.7)
- It should be less than 2 ohms.

Q: Does continuity exist?

YES : Go to Step 3.

NO : Go to Step 5.



STEP 3. Check the ground circuit to the SRS-ECU.

- (1) Disconnect SRS-ECU connector C-12, and measure at the wiring harness side.

CAUTION

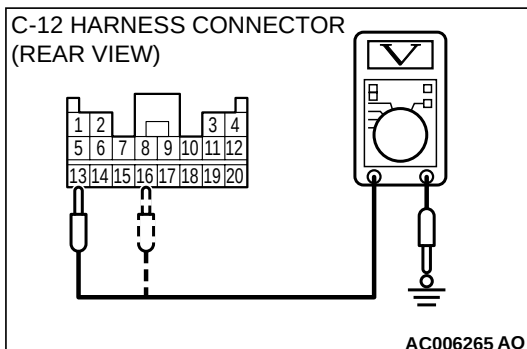
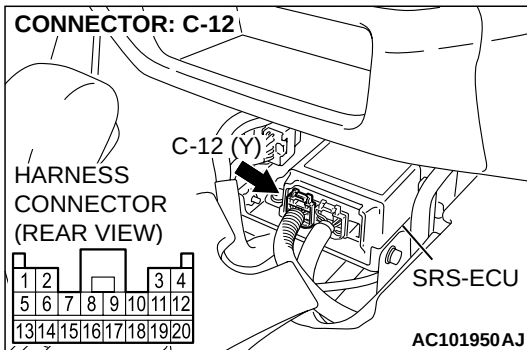
Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

- (2) Check for continuity between terminal 7 and body ground. It should be less than 2 ohms.

Q: Does continuity exist?

YES : Go to Step 4.

NO : Go to Step 6.



STEP 4. Check the power supply circuit to the SRS-ECU.

- (1) Disconnect the negative battery terminal.
- (2) Disconnect SRS-ECU connector C-12, and measure at the wiring harness side.
- (3) Connect the negative battery terminal.
- (4) Turn the ignition switch to the "ON" position.

CAUTION

Do not insert a test probe into the terminal from its front side directly as the connector contact pressure may be weakened.

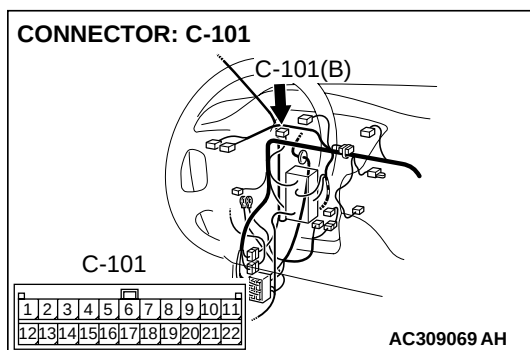
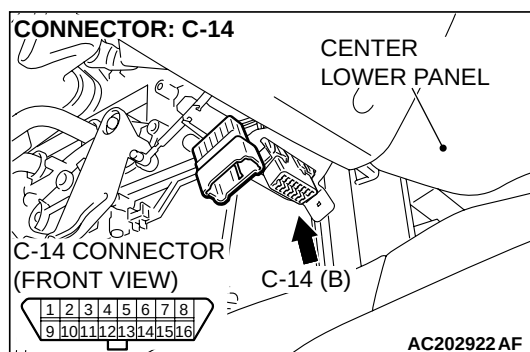
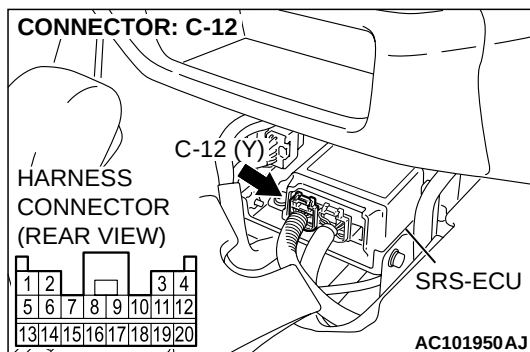
- (5) Measure the voltage between terminals 13, 16 and body ground. Voltage should measure 9 volts or more.

Q: Is the measured voltage within the specified range?

YES : Recheck the trouble symptom. If it is not solved, replace the SRS-ECU. (Refer to [P.52B-202.](#)) Then go to Step 8.

NO : Go to Step 7.

STEP 5. Check the harness wires between SRS-ECU connector C-12 (terminal No.20) and data link connector C-14 (terminal No.7).

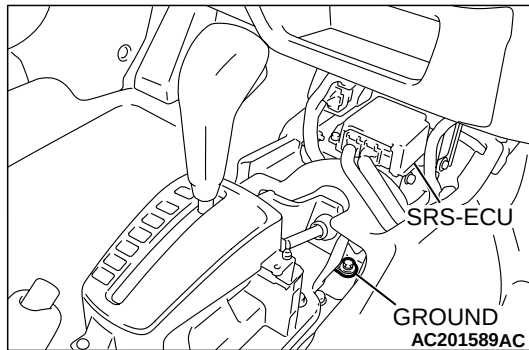
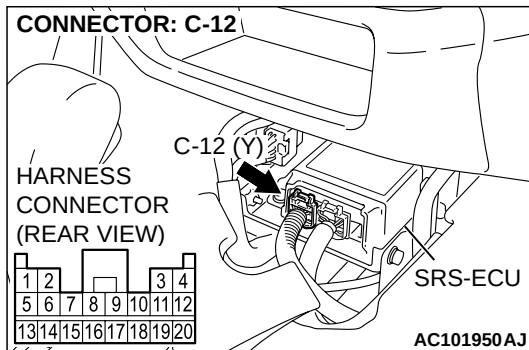


NOTE: After inspecting intermediate connector C-101, inspect the wiring harness. If the intermediate connector C-101, is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Go to Step 8.

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No.20) and data link connector C-14 (terminal No.7) in good condition?

YES : Go to step 8.

NO : Repair the harness wires between SRS-ECU connector C-12 and data link connector C-14. Then go to Step 8.

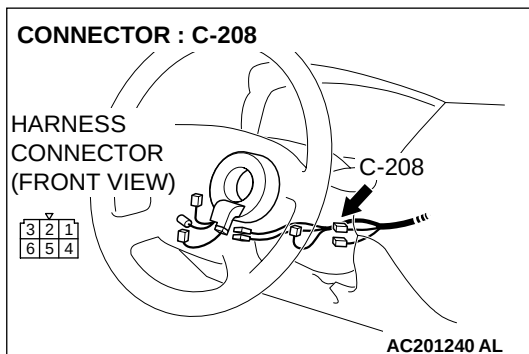
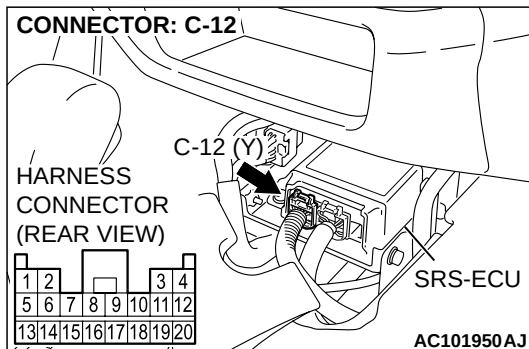


STEP 6. Check the harness wire between SRS-ECU connector C-12 (terminal No.7) and ground.

Q: Are the harness wire between SRS-ECU connector C-12 (terminal No.7) and ground in good condition?

YES : Go to Step 8.

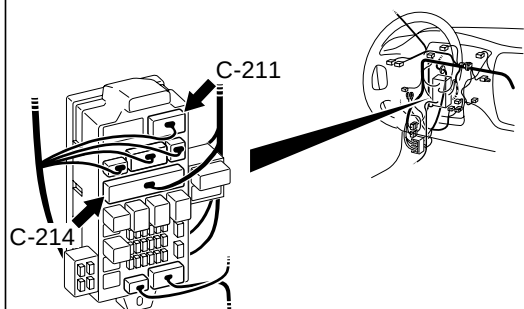
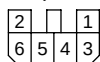
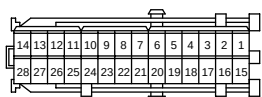
NO : Repair the harness wire between SRS-ECU connector C-12 and ground. Then go to Step 8.



STEP 7. Check the harness wires between SRS-ECU connector C-12 (terminal No.13 and 16) and ignition switch connector C-208 (terminal No.2).

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No.13 and 16) and ignition switch connector C-208 (terminal No.2) in good condition?

CONNECTORS : C-211, C-214

C-211 HARNESS CONNECTOR
(FRONT VIEW)C-214 HARNESS CONNECTOR
(FRONT VIEW)

AC307076 AL

NOTE: After inspecting intermediate connector C-214 and C-211, inspect the wiring harness. If the intermediate connector C-214 or C-211 is damaged, repair or replace it. Refer to GROUP 00E, Harness Connector Inspection [P.00E-2](#). Go to Step 8.

Q: Are the harness wires between SRS-ECU connector C-12 (terminal No.13 and 16) and ignition switch connector C-208 (terminal No.2) in good condition?

YES : Go to Step 8.

NO : Repair the harness wires between SRS-ECU connector C-12 and ignition switch connector C-208. Then go to Step 8.

STEP 8. Retest the system.

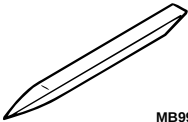
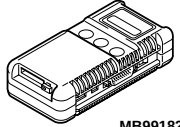
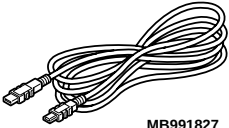
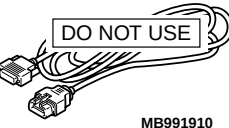
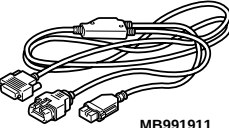
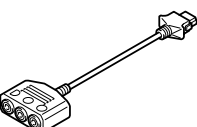
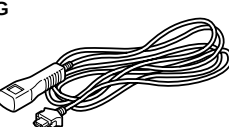
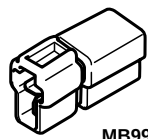
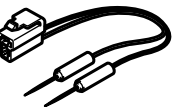
Q: Does the scan tool communicate normally with the SRS system?

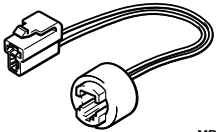
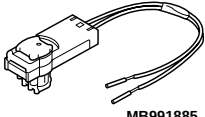
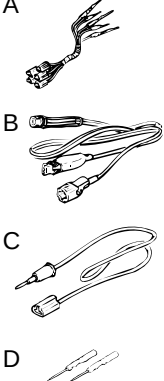
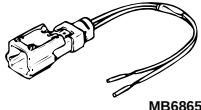
YES : The procedure is complete. (If no malfunctions are not found in all steps, an intermittent malfunction is suspected. Refer to GROUP 00, How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunction [P.00-6](#).)

NO : There is no action to be taken.

SPECIAL TOOLS

M1524000700475

TOOL	TOOL NUMBER AND NAME	SUPERSESSION	APPLICATION
 MB990784	MB990784 Ornament remover	General service tool	Removal of cover.
A  MB991824	MB991958 A: MB991824 B: MB991827 C: MB991910 D: MB991911 E: MB991914 F: MB991825 G: MB991826 MUT-III sub assembly A: Vehicle communication interface (V.C.I.) B: MUT-III USB cable C: MUT-III main harness A (Vehicles with CAN communication system) D: MUT-III main harness B (Vehicles without CAN communication system) E: MUT-III main harness C (for Daimler Chrysler models only) F: MUT-III measurement adapter G: MUT-III trigger harness	MB991824-KIT <i>NOTE: G: MB991826</i> <i>MUT-III Trigger Harness is not necessary when pushing V.C.I. ENTER key.</i>	SWS communication line check (ECU check and service data) CAUTION MUT-III main harness B (MB991911) should be used. MUT-III main harness A and C should not be used for this vehicle.
B  MB991827			
C  MB991910			
D  MB991911			
E  MB991914			
F  MB991825			
G  MB991826 MB991958			
 MB991865	MB991865	Dummy resistor	SRS air bag circuit check
 MB991866	MB991866	Resistor harness	

TOOL	TOOL NUMBER AND NAME	SUPERSESSION	APPLICATION
 MB991884	MB991884	Resistor harness (For Pre-tensioner)	Seat belt with pre-tensioner circuit check
 MB991885	MB991885	Pretensioner adapter harness	• Deployment of seat belt with pre-tensioner inside the vehicle • Deployment of seat belt with pre-tensioner outside the vehicle
 A B C D MB991223AG	MB991223 A: MB991219 B: MB991220 C: MB991221 D: MB991222 Harness set A: Test harness B: LED harness C: LED harness adapter D: Probe	General service tools	Checking the continuity and measuring the voltage at the SRS-ECU harness connector
 MB686560	MB686560 SRS air bag adapter harness	General service tool	• Deployment of air bag module (Front passenger's side) inside the vehicle • Deployment of air bag module (Front passenger's side), seat belt with pre-tensioner outside the vehicle

TEST EQUIPMENT

M1524000800320

TOOL	NAME	USE
 AC000019AB	Digital multi-meter Use a multi-meter for which the maximum test current is 2 mA or less at the minimum range of resistance measurement	Checking the SRS electrical circuitry with SRS check harness

SRS MAINTENANCE

M1524003900315

The SRS must be inspected by an authorized dealer up to 10 years after the date of vehicle registration. (Refer to GROUP 00, Maintenance Service – SRS Maintenance [P.00-60.](#))

POST-COLLISION DIAGNOSIS

M1524001100465

To inspect and service the SRS after a collision (whether or not the air bags have deployed), perform the following steps.

SRS-ECU MEMORY CHECK

Required Special Tool:

- MB991958: Scan Tool (MUT-III Sub Assembly)
 - MB991824: Vehicle Communication Interface (V.C.I.)
 - MB991827: MUT-III USB Cable
 - MB991911: MUT-III Main Harness B (Vehicles without CAN communication system)

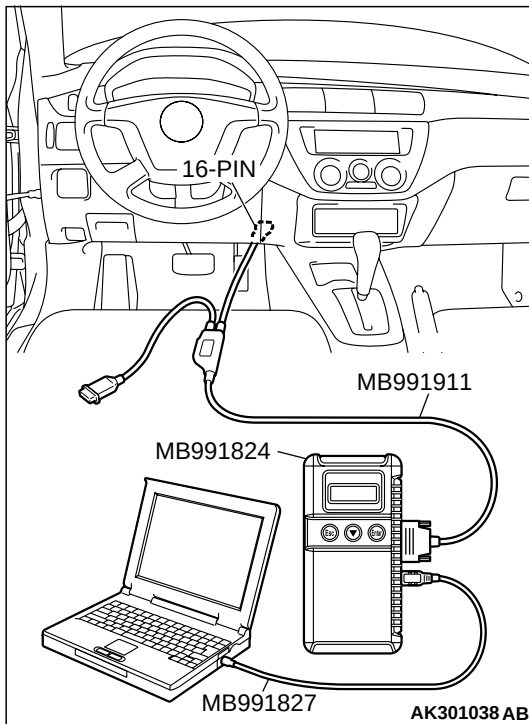
⚠ CAUTION

To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

1. Connect scan tool MB991958 to the data link connector (16-pin).
2. Read (and write down) all displayed diagnostic trouble codes. (Refer to P.52B-19.)

NOTE: If the battery power supply has been disconnected or disrupted by the collision, scan tool MB991958 cannot communicate with the SRS-ECU. Check the battery then check and, if necessary, repair the front wiring harness and the body wiring harness before proceeding.

3. Read the data list (fault duration and how many times memories are erased) using scan tool MB991958.



Data list

NO.	SERVICE DATA ITEM	APPLICABILITY
92	Number indicating how often the memory is cleared	Maximum time to be stored: 250
93	How long a problem has lasted (How long it takes from the occurrence of the problem till the first air bag squib igniting signal)	Maximum time to be stored: 9,999 minutes (approximately seven days)
94	How long a problem has lasted (How long it takes from the first air bag squib igniting signal till now.)	

4. Erase the diagnostic trouble codes and, after waiting five seconds or more, read (and write down) all displayed diagnostic trouble codes. (Refer to [P.52B-22.](#))

REPAIR PROCEDURE

WHEN FRONT AIR BAGS DEPLOY IN A COLLISION.

1. Replace the following parts with new ones.
 - SRS-ECU (Refer to [P.52B-202.](#))
 - Air bag module (Refer to [P.52B-205.](#))
 - Seat belt with pre-tensioner (Refer to [P.52B-218.](#))
2. Check the following parts and replace if there are any malfunctions.
 - Clock spring (Refer to [P.52B-205.](#))
 - Steering wheel, steering column and shaft assembly
 - (1) Check the wiring harness (built into the steering wheel) and connectors for damage, and terminals for deformation.
 - (2) Install the air bag module to check fit or alignment with the steering wheel.
 - (3) Check the steering wheel for noise, binds or difficult operation and excessive free play.
 - (4) Check the collision energy absorbing mechanism on the steering column shaft. (Refer to GROUP 37A, On-vehicle Service – Steering Column Shaft Assembly Shock Absorbing Mechanism Check [P.37A-23.](#))
3. Check the wiring harnesses for binding, the connectors for damage, poor connections, and the terminals for deformation. (Refer to [P.52B-16.](#))

WHEN SIDE-AIRBAGS DEPLOY IN A COLLISION

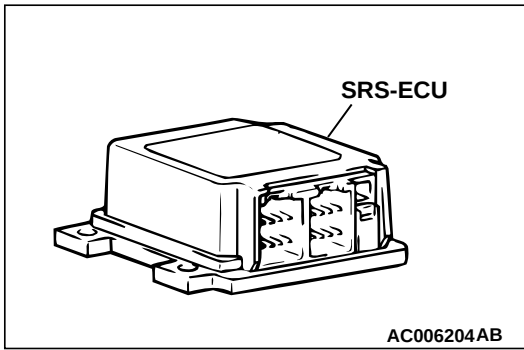
1. Replace the following parts with new ones.
 - SRS-ECU (Refer to [P.52B-202.](#))
 - Side impact sensors (Refer to [P.52B-215.](#))
 - Front seatback assembly (Refer to GROUP 52A, Front Seat [P.52A-22.](#))
2. Check the wiring harnesses for binding, the connectors for damage, poor connections, and the terminals for deformation. (Refer to [P.52B-16.](#))

WHEN AIR BAGS DO NOT DEPLOY IN LOW-SPEED COLLISION.

Check the SRS components. If the SRS components are showing any visible damage such as dents, cracks, or deformation, replace them with new ones. Concerning parts removed for inspection, replacement with new parts and cautionary points for working, refer to appropriate INDIVIDUAL COMPONENT SERVICE [P.52B-201.](#)

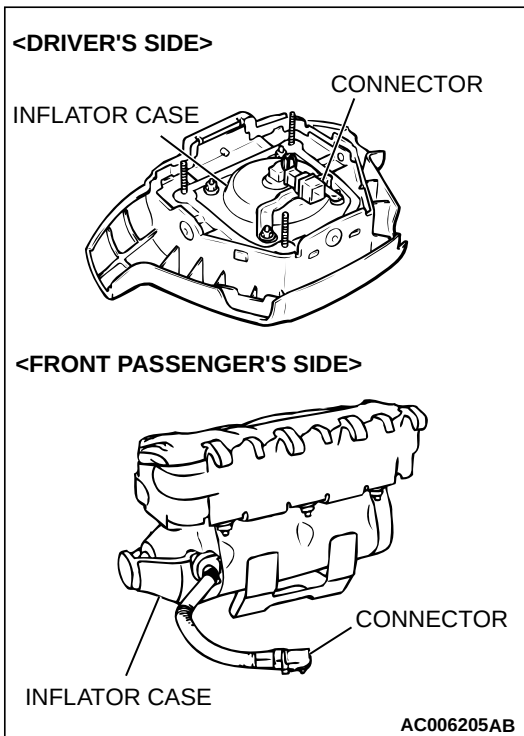
SRS-ECU

1. Check the SRS-ECU case and brackets for dents, cracks or deformation.
2. Check the connector for damage, and the terminals for deformation.
3. Check the fit of the SRS-ECU and its bracket.



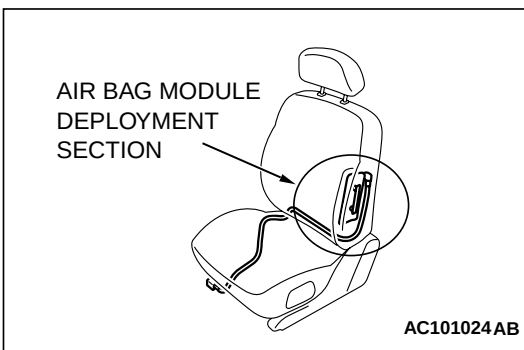
Air bag modules

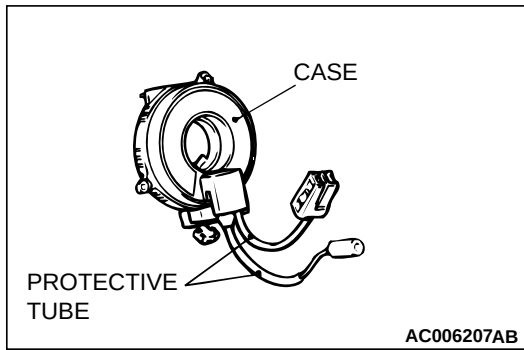
1. Check the pad cover for dents, cracks or deformation.
2. Check the connector for damage, terminals deformities, and the harness for binding.
3. Check the air bag inflator case for dents, cracks or deformities.
4. Install the air bag module (driver's side) to the steering wheel to check fit or alignment with the steering wheel.
5. Install the air bag module (front passenger's side) to the instrument panel and front deck crossmember to check fit or alignment.



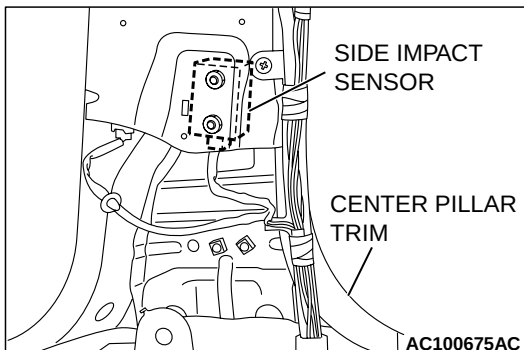
Front seatback assembly (Side-airbag module)

1. Check that there is no abnormality in the seat air bag module deployment section.
2. Check that there is no connector damage, bent terminals or clamping of the harness.



**Clock spring**

1. Check the clock spring connectors and protective tube for damage, and the terminals for deformation.
2. Visually check the case for damage.

**Side impact sensor**

1. Check that there is no bending or corrosion in the center pillar.
2. Check that there is no denting, breakage or bending of the side impact sensor.
3. Check that there is no clamping of the harness, connector damage or bent terminals.

NOTE: The illustration at left shows the side impact sensor (LH). The position of the side impact sensor (RH) is symmetrical to this.

Steering wheel, steering column and shaft assembly

1. Check the wiring harness (built into the steering wheel) and the connectors for damage, and the terminals for deformation.
2. Install the air bag module to check fit or alignment with the steering wheel.
3. Check the steering wheel for noise, binding or difficult operation and excessive free play.
4. Check the collision energy absorbing mechanism on the steering column shaft. (Refer to GROUP 37A, On-vehicle Service – Steering Column Shaft Assembly Shock Absorbing Mechanism Check [P.37A-23](#).)

Seat belt with pre-tensioner

1. Check the seat belt for damage or deformation.
2. Check the seat belt with pre-tensioner for cracks or deformation.
3. Check that the unit is installed correctly to the vehicle body.

Harness connector (floor wiring harness)

Check the harnesses for binding, the connectors for damage, poor connection, and the terminals for deformation. (Refer to [P.52B-16](#).)

INDIVIDUAL COMPONENT SERVICE

M1524002900378

 WARNING

- ***If heat damage may occur during paint work, remove the SRS-ECU, the air bag module, the clock spring, the seat belt with pre-tensioner. Recheck the SRS system operability after reinstalling them. (Refer to GROUP 00, Maintenance Service-SRS Maintenance P.00-60.)***
 - ***SRS-ECU, air bag module, clock spring: 93 °C (200 °F) or more***
 - ***Seat belt with pre-tensioner: 90 °C (194 °F) or more***
- ***If the SRS components are removed for the purpose of check, sheet metal repair, painting, etc., they should be stored in a clean, dry place until they are reinstalled.***

If the SRS components are to be removed or replaced as a result of maintenance, diagnosis, etc., follow the appropriate procedure in this section. (SRS-ECU: refer to [P.52B-202](#), Air Bag Modules and Clock Spring: refer to [P.52B-205](#), Side impact sensor: refer to [P.52B-215](#), Seat Belt with Pre-tensioner: refer to [P.52B-218](#).)

SRS CONTROL UNIT (SRS-ECU)

M1524002100435

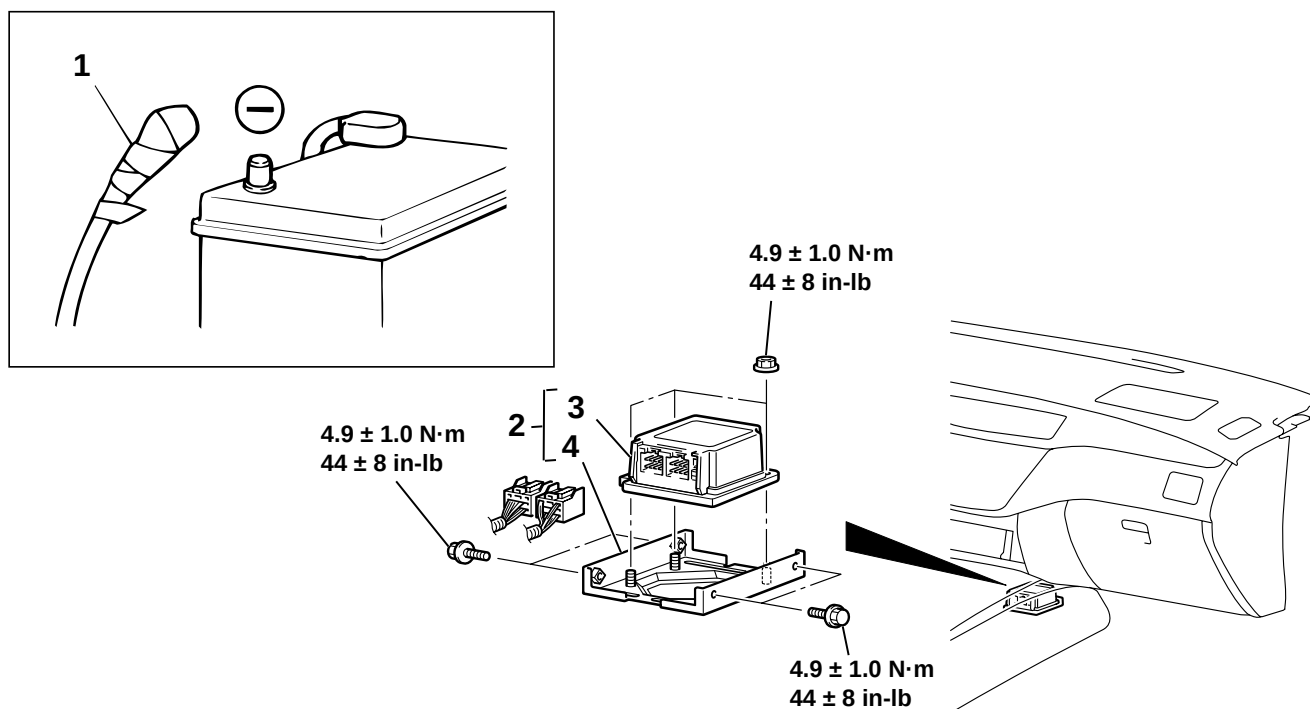
REMOVAL AND INSTALLATION

⚠ WARNING

- *Never attempt to disassemble or repair the SRS-ECU. If faulty, replace it.*
- *Do not drop or subject the SRS-ECU to impact or vibration. If denting, cracking, deformation, or rust are discovered in the SRS-ECU, replace it with a new SRS-ECU. Discard the old one.*
- *After deployment of an air bag, replace the SRS-ECU with a new one.*
- *Never use an ohmmeter on or near the SRS-ECU, and use only the special test equipment described on [P.52B-196](#).*

Pre-removal Operation

- Turn the ignition switch to the "LOCK" (OFF) position.



AC100671AB

<<A>>

REMOVAL STEPS

1. NEGATIVE (–) BATTERY CABLE CONNECTION
2. SRS-ECU BRACKET ASSEMBLY
3. SRS-ECU
4. SRS-ECU BRACKET

>>A<<

INSTALLATION STEPS

>>B<<

4. SRS-ECU BRACKET
3. SRS-ECU
2. SRS-ECU BRACKET ASSEMBLY
1. NEGATIVE (–) BATTERY CABLE CONNECTION
- POST-INSTALLATION INSPECTION

REMOVAL SERVICE POINT

<<A>> NEGATIVE (-) BATTERY CABLE DISCONNECTION

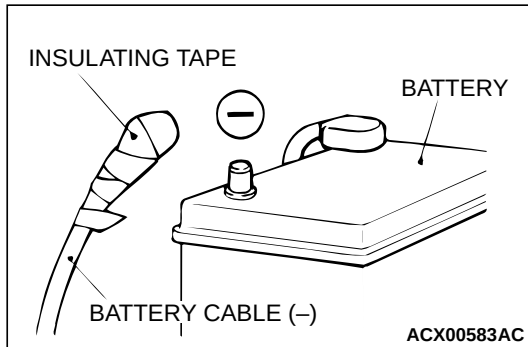
⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to [P.52B-16.](#))

⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

Disconnect the negative battery cable from the battery and tape the terminal to prevent accidental connection and deployment.



INSTALLATION SERVICE POINTS

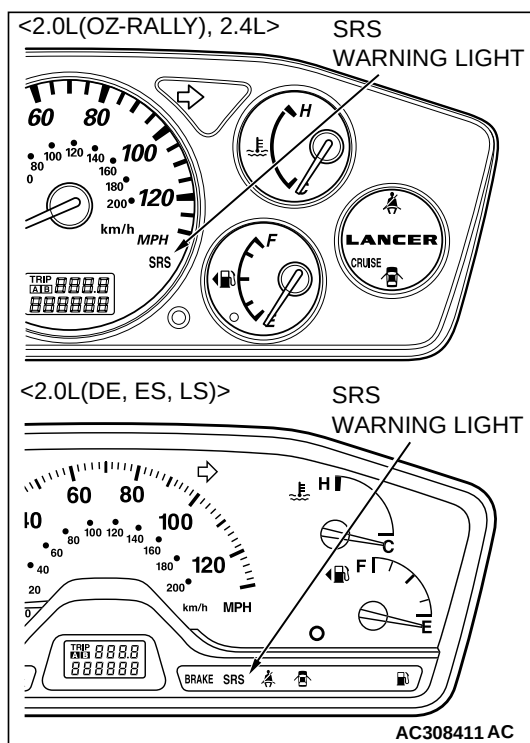
>>A<< SRS-ECU INSTALLATION

⚠ WARNING

The SRS may not activate if the SRS-ECU is not installed properly, which could result in serious injury or death to the vehicle's driver or front passenger.

>>B<< POST-INSTALLATION INSPECTION

1. Reconnect the negative (-) battery cable.



2. Turn the ignition switch to the "ON" position.
3. Does the "SRS" warning light illuminate for approximately seven seconds, and then go out?
4. If yes, the SRS system is functioning properly. If no, refer to [P.52B-21](#).

INSPECTION

M1524002200380

⚠ WARNING

If a dent, crack, deformation or rust is discovered, replace the SRS-ECU with a new one.

- Check the SRS-ECU and brackets for dents, cracks or deformation.
- Check the SRS-ECU connector for damage, and the terminals for deformation.

NOTE: Refer to [P.52B-187](#) for inspection of SRS-ECU for other than physical damage.

AIR BAG MODULES AND CLOCK SPRING

M1524002400500

REMOVAL AND INSTALLATION

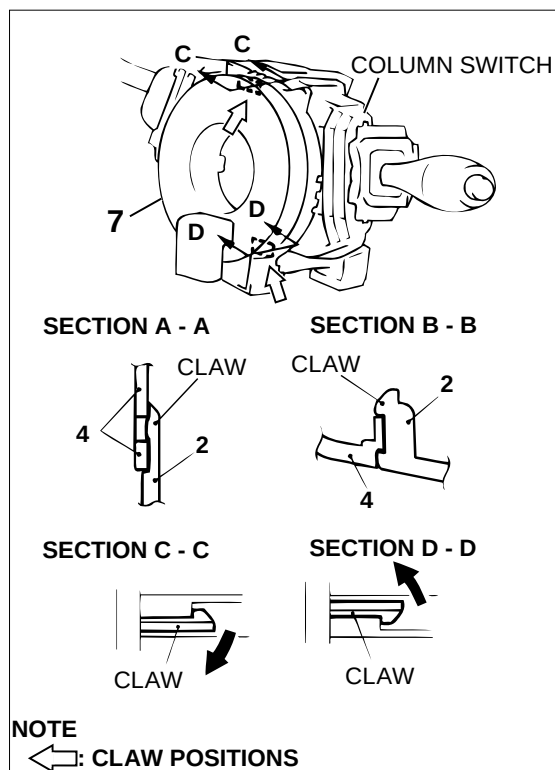
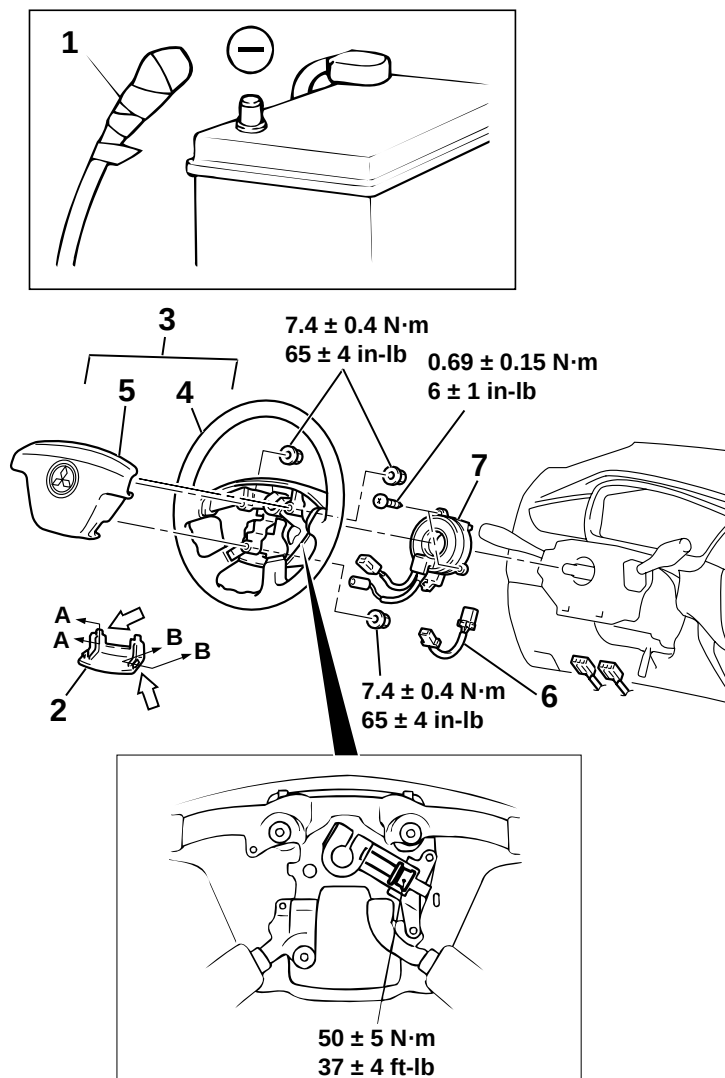
WARNING

- *Never attempt to disassemble or repair the air bag modules or clock spring. If faulty, replace it.*
- *Do not drop the air bag modules or clock spring or allow contact with water, grease or oil. Replace it if a dent, crack, deformation or rust is detected.*
- *The air bag modules should be stored on a flat surface is facing upward. Do not place anything on top of it.*
- *Do not expose the air bag modules to temperatures over 93°C (200°F).*
- *After deployment of an air bag, replace the clock spring with a new one.*
- *Wear gloves and safety glasses when handling air bags that have already deployed.*
- *An undeployed air bag module should only be disposed of in accordance with the procedures. (Refer to [P.52B-222](#).)*

<Side-airbag module>

For removal and installation of the front seatback assembly with side-airbag module, refer to GROUP52A, Front Seat [P.52A-22](#).

<Air bag module (driver's side) and clock spring>



AC100437AD

AIR BAG MODULE REMOVAL STEPS

- <<A>> 1. NEGATIVE (-) BATTERY CABLE CONNECTION
- <> 2. COVER
- <<C>> 3. STEERING WHEEL AND AIR BAG MODULE ASSEMBLY
- <<D>> 4. STEERING WHEEL
- <<A>> 5. AIR BAG MODULE
- CLOCK SPRING REMOVAL STEPS**
- <<A>> 1. NEGATIVE (-) BATTERY CABLE CONNECTION
- <> 2. COVER
- <<C>> 3. STEERING WHEEL AND AIR BAG MODULE ASSEMBLY
- COLUMN COVER LOWER (REFER TO GROUP 52A, INSTRUMENT PANEL P.52A-3.)

CLOCK SPRING REMOVAL STEPS

6. CLOCK SPRING SUB HARNESS
<VEHICLES WITH AUTO-CRUISE CONTROL>

7. CLOCK SPRING

AIR BAG MODULE INSTALLATION STEPS

- >>A<< • PRE-INSTALLATION INSPECTION
5. AIR BAG MODULE
4. STEERING WHEEL
- >>C<< 3. STEERING WHEEL AND AIR BAG MODULE ASSEMBLY

2. COVER

1. NEGATIVE (-) BATTERY CABLE CONNECTION

- >>D<< • POST-INSTALLATION INSPECTION

CLOCK SPRING INSTALLATION STEPS

- >>A<< • PRE-INSTALLATION INSPECTION
- >>B<< 7. CLOCK SPRING

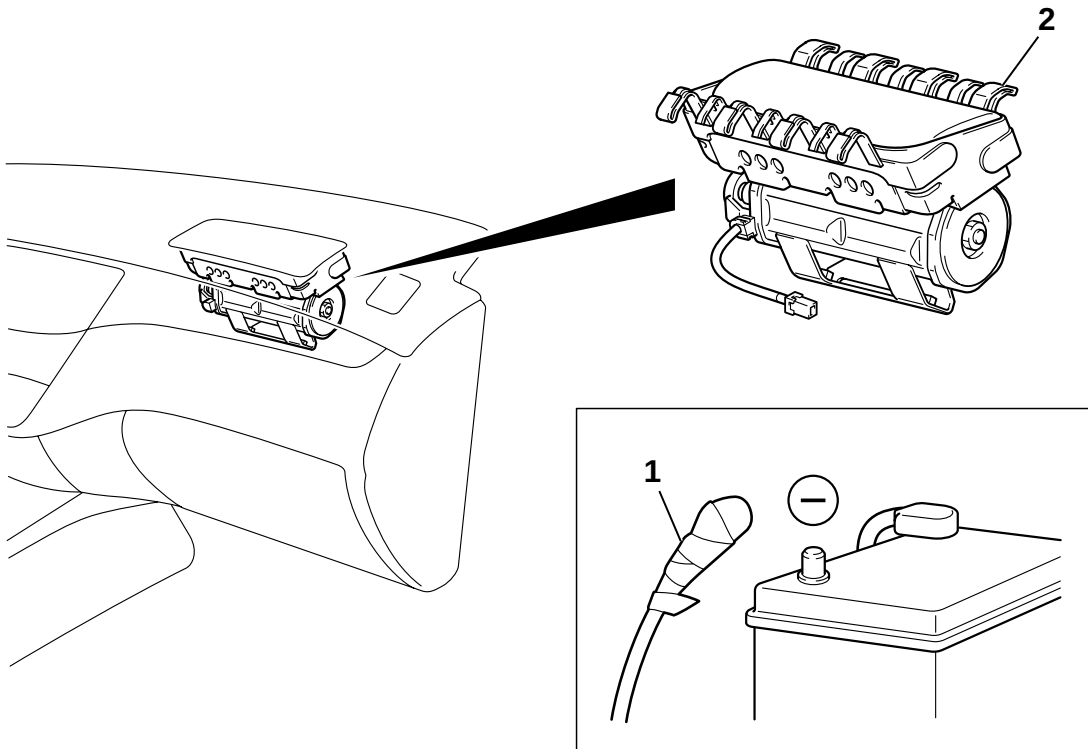
**CLOCK SPRING INSTALLATION
STEPS (Continued)**

6. CLOCK SPRING SUB HARNESS
<VEHICLES WITH AUTO-CRUISE
CONTROL>
- COLUMN COVER LOWER (REFER
TO GROUP 52A, INSTRUMENT
PANEL P.52A-3.)
- >>C<< 3. STEERING WHEEL AND AIR BAG
MODULE ASSEMBLY
2. COVER
1. NEGATIVE (-) BATTERY CABLE
CONNECTION
- >>D<< • POST-INSTALLATION INSPECTION

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
- MB991824: Vehicle Communication Interface
- MB991827: MUT-III USB Cable
- MB991911: MUT-III Main Harness B
- MB990784: Ornament remover
- MB991222: Probe

<Air bag module (front passenger's side)>



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**AIR BAG MODULE REMOVAL
STEPS**

- <<A>> 1. NEGATIVE (-) BATTERY CABLE
CONNECTION
- INSTRUMENT PANEL (REFER TO
GROUP 52A, INSTRUMENT PANEL
P.52A-3.)

- <<F>> 2. AIR BAG MODULE

**AIR BAG MODULE INSTALLATION
STEPS**

- >>A<< • PRE-INSTALLATION INSPECTION
2. AIR BAG MODULE
- INSTRUMENT PANEL (REFER TO
GROUP 52A, INSTRUMENT PANEL
P.52A-3.)

**AIR BAG MODULE INSTALLATION
STEPS (Continued)**

1. NEGATIVE (-) BATTERY CABLE
CONNECTION
- >>D<< • POST-INSTALLATION INSPECTION

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
- MB991824: Vehicle Communication Interface
- MB991827: MUT-III USB Cable
- MB991911: MUT-III Main Harness B
- MB991222: Probe

REMOVAL SERVICE POINT

<<A>> NEGATIVE (-) BATTERY CABLE DISCONNECTION

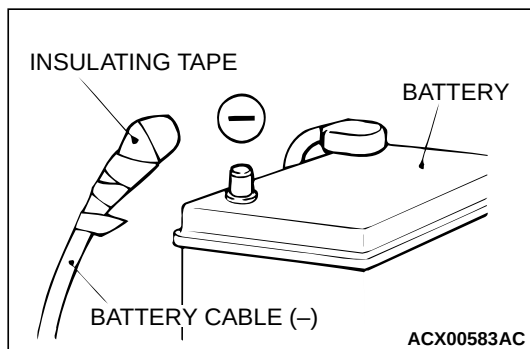


Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-16.)



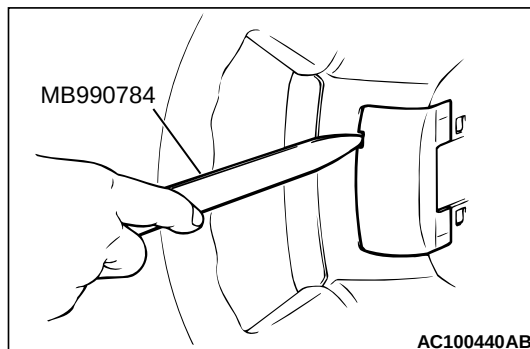
Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

Disconnect the negative (-) battery cable from the battery and tape the terminal to prevent accidental connection and air bag(s) deployment.

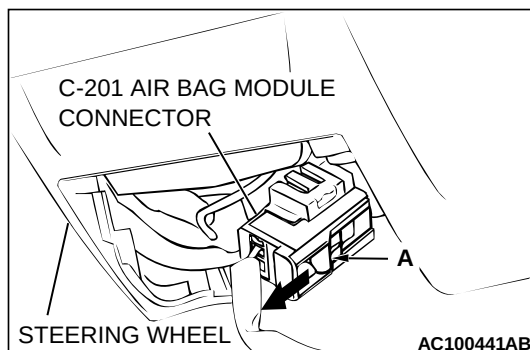


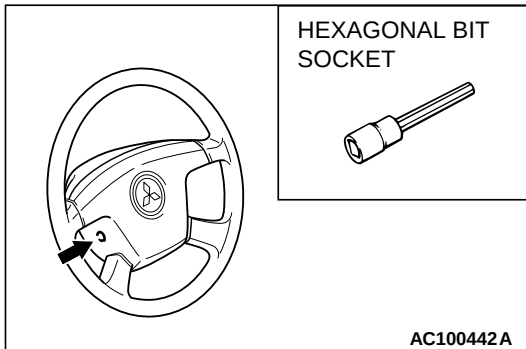
<>COVER REMOVAL

Insert the special tool MB990784 as shown in the illustration to remove the cover.

<<C>> STEERING WHEEL AND AIR BAG MODULE
ASSEMBLY REMOVAL

1. By sliding the A section (in the figure) of the air bag module connector in the arrow direction, disconnect the connector.





2. Insert the hexagonal bit socket into the arrow section in the figure. Completely loosen the bolt, and then remove the steering wheel air bag module assembly.

NOTE: Use a hexagonal bit socket or a hexagonal wrench having an effective length of 75 mm (0.2 inches) or more in the hexagonal section and the diameter of 8 mm or more.

<<D>> DRIVER'S AIR BAG MODULE REMOVAL

WARNING

- The air bag module must not be measured with such equipment as an ohmmeter, nor disassembled.
- The removed air bag module should be stored in a clean, dry place with the deployment surface facing up.

<<E>> CLOCK SPRING REMOVAL

WARNING

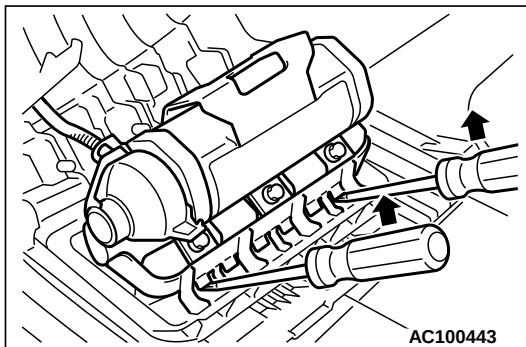
The removed clock spring should be stored in a clean, dry place.

<<F>> AIR BAG MODULE REMOVAL (FRONT PASSENGER'S SIDE)

WARNING

- When the passenger's air bag module is removed, do not damage the engagement of the pawls.
- The removed passenger's air bag module should be stored in a clean, dry place with facing the deployment surface facing up.

Insert the screwdriver (–) into the position specified in the figure and lift the screwdriver upward to release the pawls engaged, and then remove the passenger's air bag module.



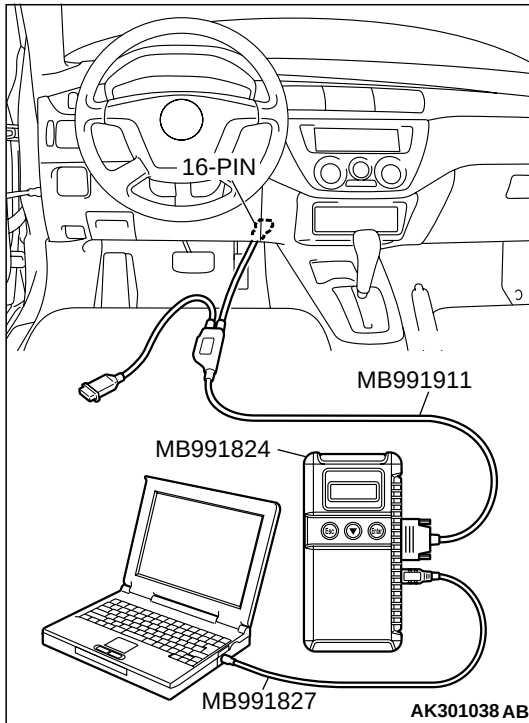
INSTALLATION SERVICE POINTS

>>A<< PRE-INSTALLATION INSPECTION

WARNING

Dispose of air bag modules only according to the specified procedure. (Refer to [P.52B-222](#).)

1. When installing the new air bag modules and clock spring, refer to "INSPECTION" ([P.52B-212](#)).
2. Connect the negative (–) battery cable.

**⚠ CAUTION**

To prevent damage to scan tool MB991958, always turn the ignition, switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

3. Connect scan tool MB991958 to the data link connector.
4. Turn the ignition switch to the "ON" position.
5. Check DTCs using scan tool MB991958 to ensure entire SRS operates properly.

Confirm that the DTCs other than 21 and 24 are not set.

⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-16.)

⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

6. Turn the ignition switch to the "LOCK" (OFF) position. Disconnect the negative (–) battery cable and tape the terminal to prevent accidental connection and air bags deployment.

>>B<< CLOCK SPRING INSTALLATION**⚠ WARNING**

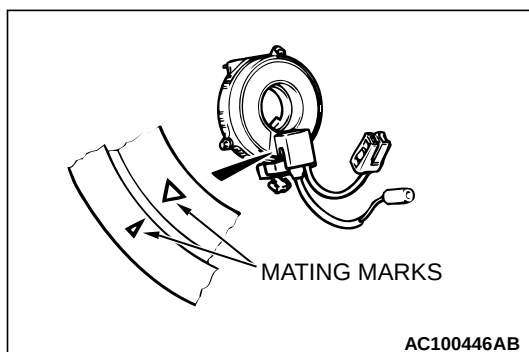
Ensure that the clock spring's mating marks are properly aligned. If not, the steering wheel may not rotate completely during a turn, or the flat cable in the clock spring could be damaged, This would prevent normal SRS operation and possibly cause serious injury to the driver.

1. Align the mating marks of the clock spring.

<Mating Mark Alignment>

Turn the clock spring clockwise fully. Then turn it back approximately 3 3/4 turns counterclockwise to align the mating marks.

2. Turn the front wheels to the straight-ahead position. Then install the clock spring to the column switch.



**>>C<< STEERING WHEEL AND AIR BAG MODULE
ASSEMBLY INSTALLATION**

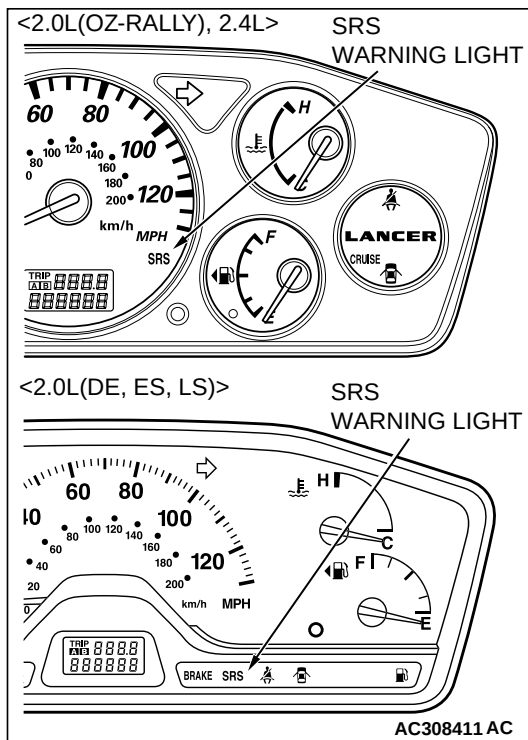
⚠ CAUTION

When installing the steering wheel, and air bag module ensure that the harness of the clock spring does not become caught or tangled.

1. Before installing the steering wheel, and air bag module turn the vehicle's front wheels to the straight-ahead position and align the mating marks of the clock spring.
2. After securing the steering wheel, turn the steering wheel all the way in both directions to confirm that the steering wheel rotation is normal.

>>D<< POST-INSTALLATION INSPECTION

1. Reconnect the negative (-) battery cable.
2. Turn the ignition switch to "ON" position.
3. Does the "SRS" warning light illuminate for approximately seven seconds, and go out?
4. If yes, the SRS system is functioning properly. If no, refer to [P.52B-21](#).



INSPECTION

M1524002500444

AIR BAG MODULE CHECK

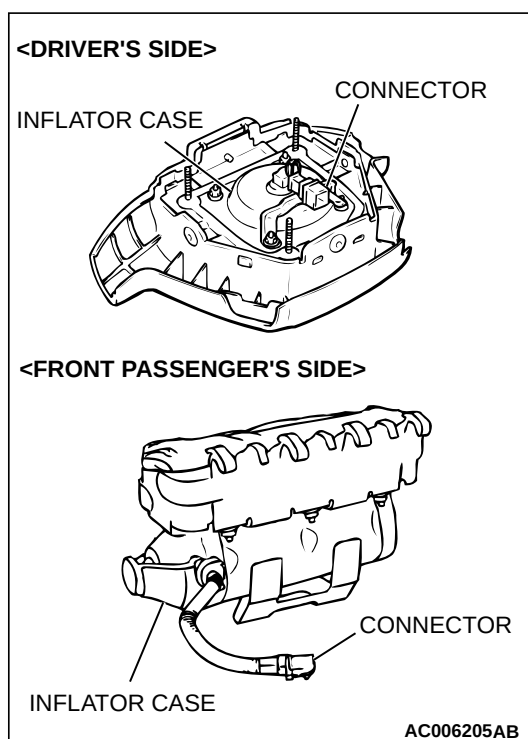
⚠ DANGER

Never attempt to measure the circuit resistance of the air bag modules (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental air bag deployment will result in serious personal injury.

⚠ WARNING

If any component damage is found during the following inspection, replace the air bag module with a new one. Dispose of the old one according to the specified procedure. (Refer to [P.52B-222](#).)

1. Check the pad cover for dents, cracks or deformation.
2. Check the connectors for damage, the terminals for deformation, and the harness for binds.
3. Check the air bag inflator case for dents, cracks or deformation.
4. Install the air bag module (driver's side) to the steering wheel and check fit and alignment with the wheel.
5. Install the air bag module (front passenger's side) to the instrument panel and front deck crossmember and check fit and alignment.



FRONT SEATBACK ASSEMBLY WITH SIDE-AIRBAG MODULE CHECK

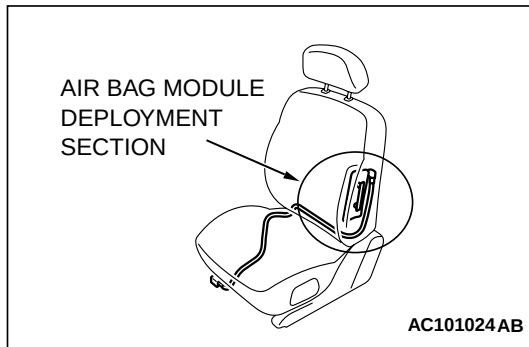
⚠ DANGER

Never attempt to measure the circuit resistance of the air bag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental air bag deployment will result in serious personal injury.

⚠ WARNING

If any improper part is found during the following inspection, replace the front seatback assembly with a new one. Dispose of the old one according to the specified procedure. (Refer to [P.52B-222](#).)

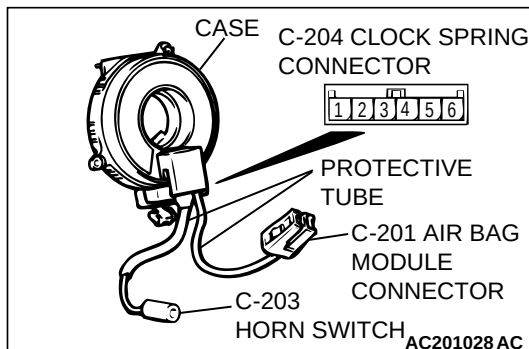
1. Check the air bag module deployment section for dents or deformation.
2. Check the connector for damage, the terminals for deformation, and the harness for binds.

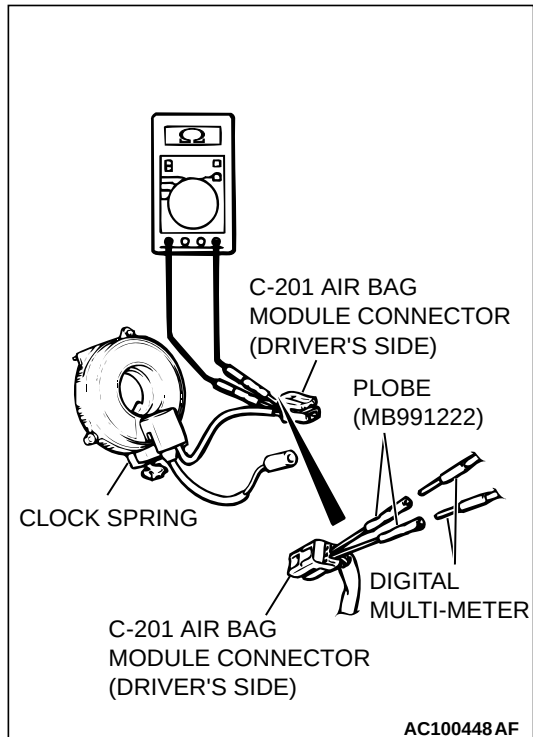


CLOCK SPRING CHECK

If any malfunction is found in the following inspections, replace the clock spring with a new one.

1. Check the connectors and protective tube for damage, and the terminals for deformation.
2. Visually check the case for damage.
3. Check to see that there is a charge (continuity) between the C-204 clock spring connector terminal and C-203 horn switch.



**⚠ CAUTION**

Do not directly insert a probe, etc. into the terminal from the front of the connector.

4. Insert the special tool (MB991222) from behind the airbag module connector of the C-201 driver's seat.
5. As shown in the Figure, connect the circuit tester to the special tool (MB991222) and check to see that there is a charge between the terminals.

SIDE IMPACT SENSOR

M1524004600339

REMOVAL AND INSTALLATION

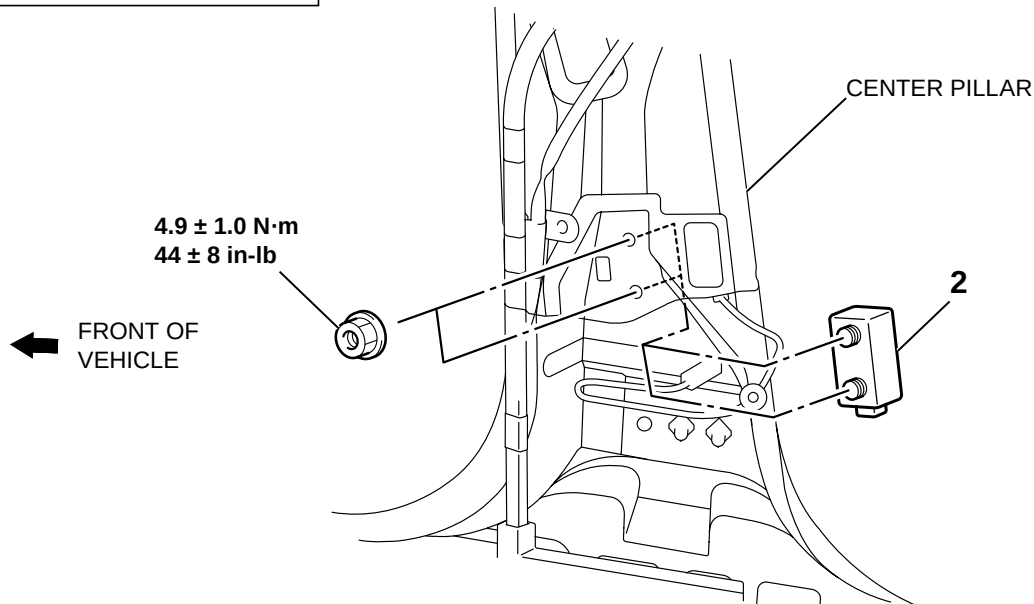
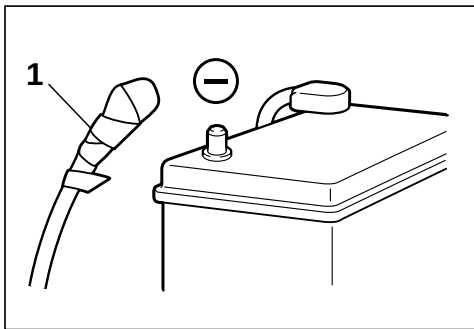
A side impact sensor is installed behind the center pillar trim on both driver and passenger sides of the vehicle.

⚠ WARNING

- **Never attempt to disassemble or repair the side impact sensor. If faulty, replace it.**
- **Do not drop or subject the side impact sensor to impact or vibration. Replace the side impact sensor, if dents, cracking, deformation, or rust are present.**
- **Replace the side impact sensor after the air bag has deployed.**

Pre-removal Operation

- Turn the ignition key to the "LOCK" (OFF) position.



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REMOVAL STEPS

- CENTER PILLAR LOWER TRIM (REFER TO GROUP 52A, TRIMS [P.52A-12.](#))
- SEAT BELT (REFER TO GROUP 52A, FRONT SEAT BELT [P.52A-28](#))

<<A>>

REMOVAL STEPS (Continued)

1. NEGATIVE (-) BATTERY CABLE CONNECTION
2. SIDE IMPACT SENSOR

INSTALLATION STEPS

- >>A<< 1. PRE-INSTALLATION INSPECTION
- >>B<< 2. SIDE IMPACT SENSOR

INSTALLATION STEPS

1. NEGATIVE (-) BATTERY CABLE CONNECTOR
- SEAT BELT (REFER TO GROUP 52A, FRONT SEAT BELT [P.52A-28](#))
- CENTER PILLAR LOWER TRIM (REFER TO GROUP 52A, TRIMS [P.52A-12.](#))
- >>C<< • POST-INSTALLATION INSPECTION

NOTE: The illustration above shows the side impact sensor (RH). The position of the side impact sensor (LH) is symmetrical to this.

REMOVAL SERVICE POINT

<<A>> NEGATIVE (-) BATTERY CABLE DISCONNECTION

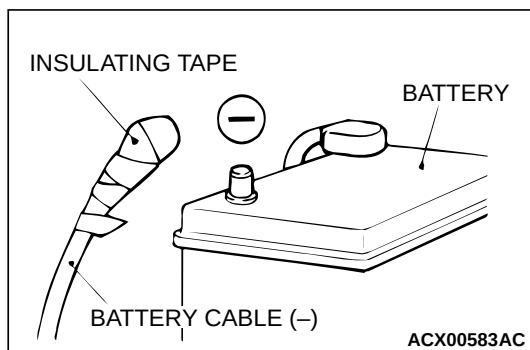


Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to [P.52B-16.](#))



Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

Disconnect the negative (-) battery cable from the battery and tape the terminal to prevent accidental connection and air bag deployment.



INSTALLATION SERVICE POINTS

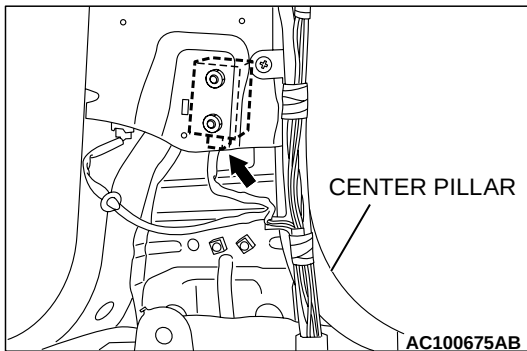
>>A<< PRE-INSTALLATION INSPECTION

Check the side impact sensor for dents, breakage and bending and measure the resistance between the terminals, even when installing a new side impact sensor.

>>B<< SIDE IMPACT SENSOR INSTALLATION

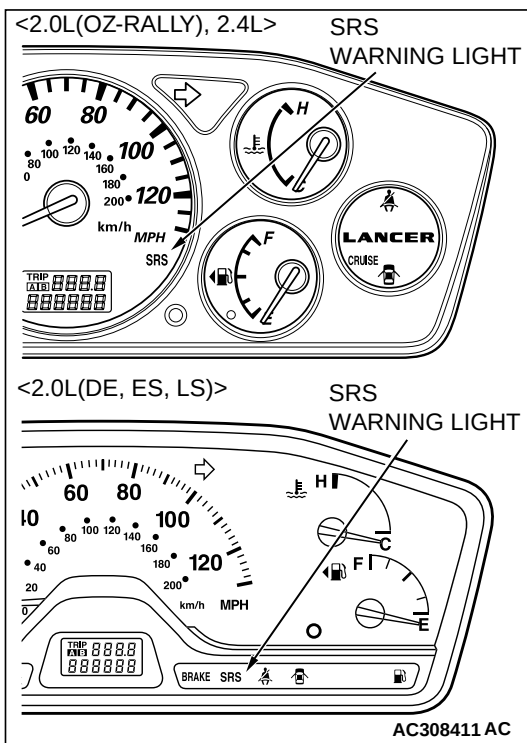
⚠ WARNING

If the side impact sensor is not installed securely and correctly, the side-airbag may not operate normally. Securely connect the connector.



>>C<< POST-INSTALLATION INSPECTION

1. Reconnect the negative (-) battery cable.
2. Turn the ignition switch to the "ON" position.
3. Does the "SRS" warning light illuminate for approximately seven seconds, go out?
4. If yes, the SRS system is functioning properly. If no, refer to [P.52B-21](#).



INSPECTION

M1524004700284

⚠ WARNING

If a dent, crack, deformation or rust is detected, replace with a new sensor.

NOTE: For checking of the side impact sensor other than described above, refer to the section concerning SRS diagnosis (Refer to [P.52B-22](#).)

- Check the side impact sensor and bracket for dents, cracks or deformation.
- Check the connector for damage, and terminal for deformation.
- Check that there is no bending or corrosion in the center pillar.

SEAT BELTS WITH PRE-TENSIONER

M1524004100323

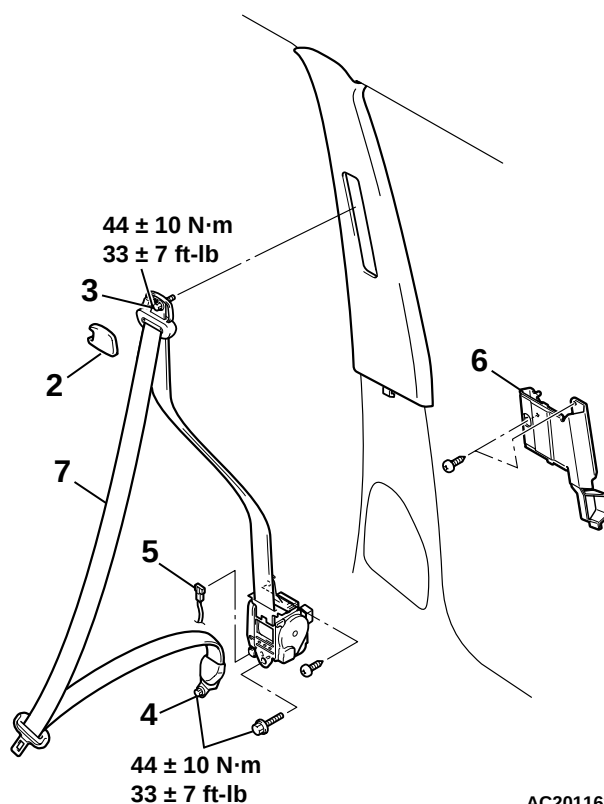
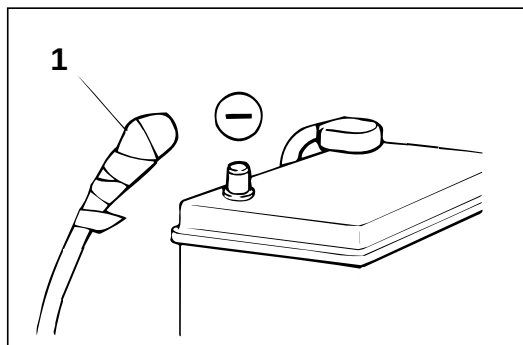
REMOVAL AND INSTALLATION

⚠ WARNING

- *Never attempt to disassemble or repair the seat belt pre-tensioner. If faulty, replace it.*
- *Be extremely careful when handling the seat with pre-tensioner. Do not subject it to shocks, drop it, bring it close to strong magnets or allow contact with water, grease or oil. Always replace it with a new part if any dents, cracks or deformation is found.*
- *Do not place anything on top of the seat belt pre-tensioner.*
- *Do not expose the seat belt pre-tensioner to temperatures over 90°C (194°F).*
- *After operating the seat belt pre-tensioner, replace the seat belt pre-tensioner with a new part.*
- *Gloves and protective goggles should be worn when handling a seat belt pre-tensioner once it has been used.*
- *If disposing of a seat belt with pre-tensioner which has not yet been used, its seat belt pre-tensioner should be operated first before disposal. (Refer to [P.52B-222.](#))*

Pre-removal Operation

- Turn the ignition key to the "LOCK" (OFF) position.



AC201163 AB

<<A>>

REMOVAL STEPS

1. NEGATIVE (–) BATTERY CABLE CONNECTION
2. SASH GUIDE COVER
3. SEAT BELT SHOULDER ANCHOR BOLT

REMOVAL STEPS (Continued)

4. SEAT BELT LOWER ANCHOR BOLT
 - CENTER PILLAR TRIM, LOWER (REFER TO GROUP 52A, TRIMS [P.52A-12.](#))

- | | | |
|---------------------------------|--|---|
| <p><></p> | <p>REMOVAL STEPS (Continued)</p> <ol style="list-style-type: none"> 5. PRE-TENSIONER CONNECTOR CONNECTION 6. BRACKET 7. SEAT BELT WITH PRE-TENSIONER | <p>INSTALLATION STEPS (Continued)</p> <ol style="list-style-type: none"> 3. SEAT BELT SHOULDER ANCHOR BOLT 2. SASH GUIDE COVER 1. NEGATIVE (-) BATTERY CABLE CONNECTION |
| | <p>INSTALLATION STEPS</p> <p>>>A<<</p> <ul style="list-style-type: none"> • PRE-INSTALLATION INSPECTION 7. SEAT BELT WITH PRE-TENSIONER 6. BRACKET <p>>>B<<</p> <ul style="list-style-type: none"> 5. PRE-TENSIONER CONNECTOR CONNECTION • CENTER PILLAR TRIM, LOWER (REFER TO GROUP 52A, TRIMS P.52A-12.) 4. SEAT BELT LOWER ANCHOR BOLT | <p>>>C<<</p> <ul style="list-style-type: none"> • POST-INSTALLATION INSPECTION |

Required Special Tools:

- MB991958: Scan Tool (MUT-III Sub Assembly)
- MB991824: Vehicle Communication Interface
- MB991827: MUT-III USB Cable
- MB991911: MUT-III Main Harness B

REMOVAL SERVICE POINTS

<<A>> NEGATIVE (-) BATTERY CABLE DISCONNECTION

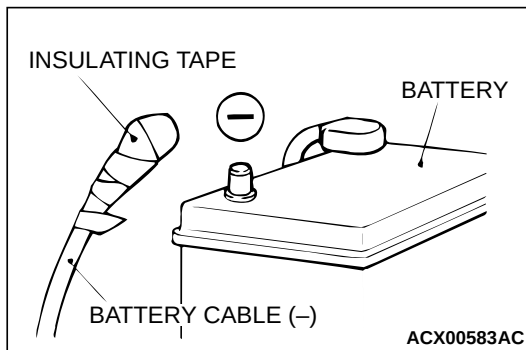


Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to [P.52B-16.](#))



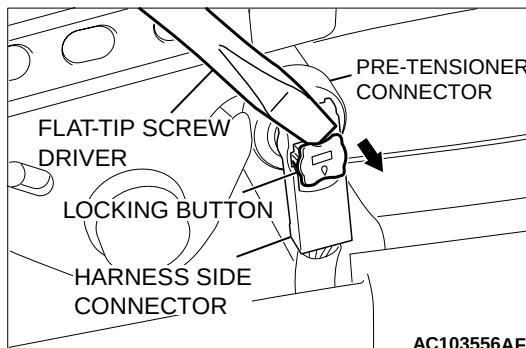
Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

Disconnect the negative (-) battery cable from the battery and tape the terminal to prevent accidental connection and seat belt pre-tensioner operation.



<>PRE-TENSIONER CONNECTOR DISCONNECTION

1. Use a flat-tipped screwdriver to pull out forward and unlock the locking button of the harness-side connector.
2. Disconnect the pretensioner connector.



INSTALLATION SERVICE POINTS

>>A<< PRE-INSTALLATION INSPECTION

⚠ WARNING

Dispose of seat belt pre-tensioner only according to the specified procedure. (Refer to P.52B-222.)

1. When installing the new seat belt pre-tensioner, refer to "INSPECTION" (P.52B-221).
2. Connect the negative (–) battery cable.

⚠ CAUTION

To prevent damage to scan tool MB991958, always turn the ignition, switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

3. Connect scan tool MB991958 to the data link connector.
4. Turn the ignition switch to the "ON" position.
5. Check DTCs using scan tool MB991958 to ensure entire SRS operates properly.

Confirm that the DTCs other than 26 and 28 are not set.

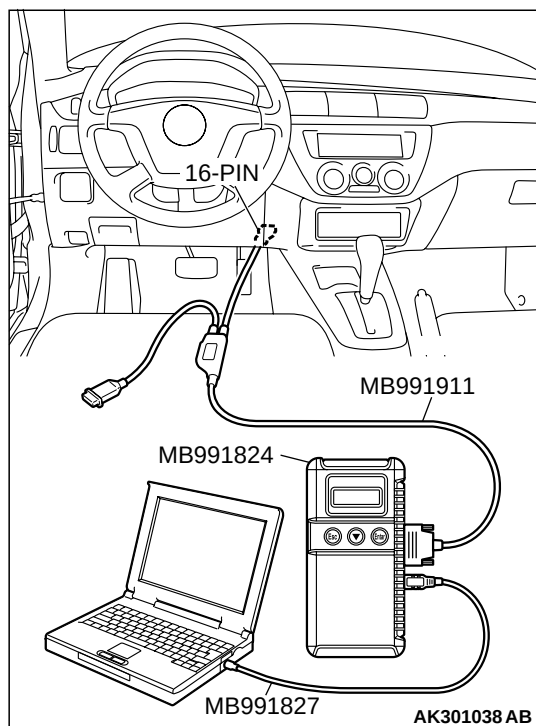
⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-16.)

⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

6. Turn the ignition switch to the "LOCK" (OFF) position.
Disconnect the negative (–) battery cable and tape the terminal to prevent accidental connection and seat belt pre-tensioner operation.

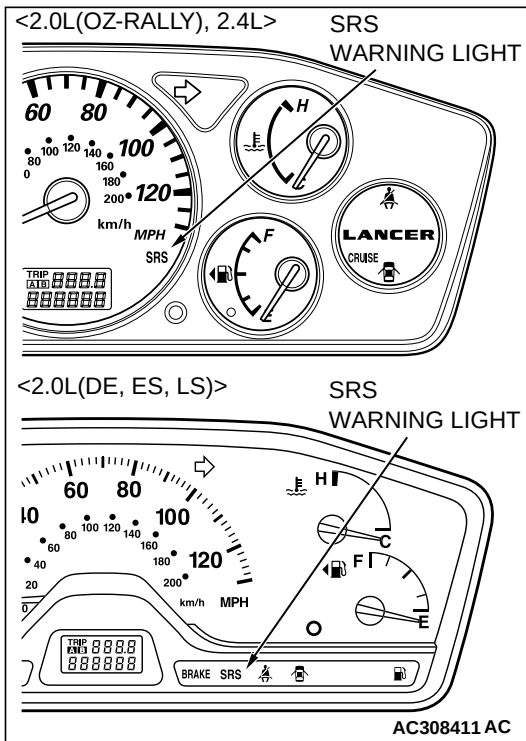


>>B<< PRE-TENSIONER CONNECTOR CONNECTION

Connect the pretensioner connector then securely lock the locking button of the harness-side connector.

>>C<< POST-INSTALLATION INSPECTION

1. Reconnect the negative (–) battery cable.
2. Turn the ignition switch to the "ON" position.



3. Does the "SRS" warning light illuminate for approximately seven seconds, and go out?
4. If yes, the SRS system is functioning properly. If no, refer to [P.52B-21](#).

INSPECTION

M1524004200278

SEAT BELT WITH PRE-TENSIONER CHECK

WARNING

- ***If any component damage is found during the following inspection, replace the seat belt with pre-tensioner with a new one. Dispose of the old one according to the specified procedure. (Refer to [P.52B-222](#).)***
 - ***Never attempt to measure the circuit resistance of the seat belt pre-tensioner even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental seat belt pre-tensioner operation will result in serious personal injury.***
1. Check seat belt pre-tensioner for dents, cracks or deformation.
 2. Check the connectors for damage, the terminals for deformation, and the harness for binds.

AIR BAG MODULE AND SEAT BELT PRE-TENSIONER DISPOSAL PROCEDURES

M1524001200495

Before disposing of an air bag or a vehicle equipped with an air bag, follow the procedures below to deploy the air bag.

UNDEPLOYED AIR BAG MODULE DISPOSAL

Required Special Tools:

- MB686560: SRS Air Bag Adapter Harness
- MB991885: Pre-tensioner Adapter Harness (For pre-tensioner)

WARNING

- *If the vehicle is to be scrapped or otherwise disposed of, deploy the air bags and operate the seat belt pre-tensioner inside the vehicle. If the vehicle will continue to be used and only the air bag modules and seat belt pre-tensioner are to be disposed of, deploy the air bags and operate the seat belt pre-tensioner outside the vehicle.*
- *Since a large amount of smoke is produced when the air bag is deployed and the seat belt pre-tensioner is operated, avoid residential areas whenever possible.*
- *Since there is loud noise when the air bags are deployed and when the seat belt pre-tensioner are operated, avoid residential areas whenever possible. If anyone is nearby, give warning of the impending noise.*
- *Suitable ear protection should be worn by personnel performing these procedures or by people in the immediate area.*

DEPLOYMENT INSIDE THE VEHICLE (when disposing of a vehicle) <Air bag module (driver's side)>

1. Move the vehicle to an isolated spot.

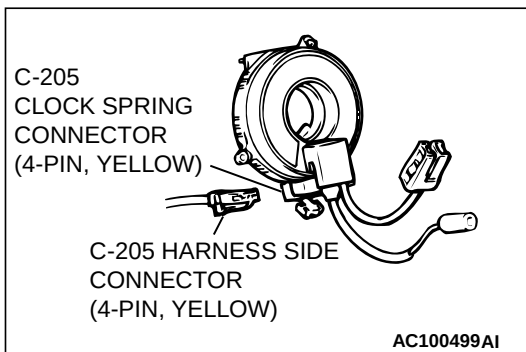
DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16.](#))

WARNING

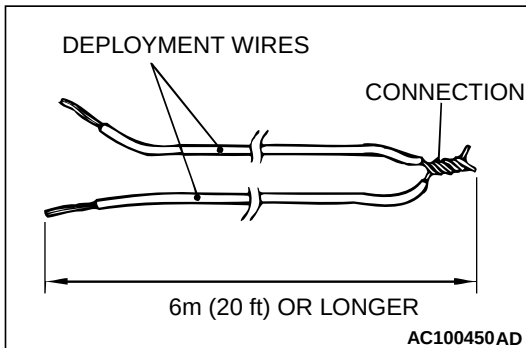
Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

2. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.
3. Remove the steering column cover lower. (Refer to GROUP 52A, Instrument Panel [P.52A-3.](#))



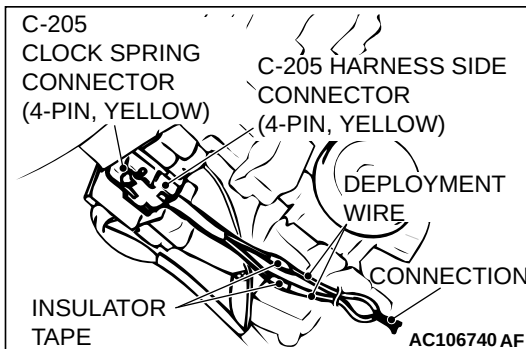
4. Remove the connection between the C-205 clock spring connector (four-pin, yellow) and the harness side connector (four-pin, yellow).

NOTE: If the clock spring connector is disconnected from the instrument panel wiring harness, both electrodes of the clock spring connector will be automatically shorted to prevent unintended deployment of the air bag due to static electricity, etc.



5. Obtain two suitable wires, which are 6 meters (20 feet) or longer, as deployment wires. Then connect the wires at one end to short.

NOTE: This prevents the air bag from unintentional deployment caused by static electricity, etc.



6. Cut with a nipper, etc. the instrument panel wiring harness shown in the Figure of the instructions, while the C-205 clock spring connector is disconnected.

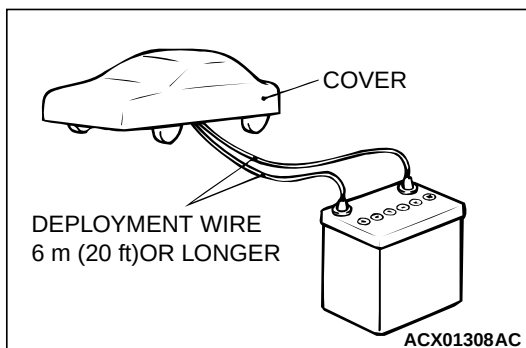
NOTE: The disconnection location should be sufficiently away from the C-205 harness side connector with consideration to the expansion harness connection location upon disconnections.

7. Individually connect a harness on the two harnesses disconnected, cover the connection areas with insulation tape and then pull out the expansion harness outside the vehicle.
8. Connect the C-205 harness side connector connected with an expansion harness to the C-205 clock spring connector.

⚠ WARNING

If the glass is scratched, air bag deployment could cause it to crack and fly out of the vehicle, so always put a cover over the vehicle.

9. To suppress the operation sound as much as possible completely close all door windows, close the doors and put the cover on the vehicle.



⚠ WARNING

- **Before deploying the air bag in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.**
- **The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from the air bag deployment. See Deployed Air Bag Module Disposal (Refer to [P.52B-237.](#)) for post-deployment handling instructions.**
- **If the air bag module fails to deploy, do not go near the module. Contact the MMNA Tech Line.**

10. At a location as far away from the vehicle as possible, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
11. After deployment, dispose of the air bag module according to the Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237.](#))

DEPLOYMENT INSIDE THE VEHICLE (when disposing of a vehicle) <Air bag module (front passenger's side)>

1. Move the vehicle to an isolated spot.

⚠ DANGER

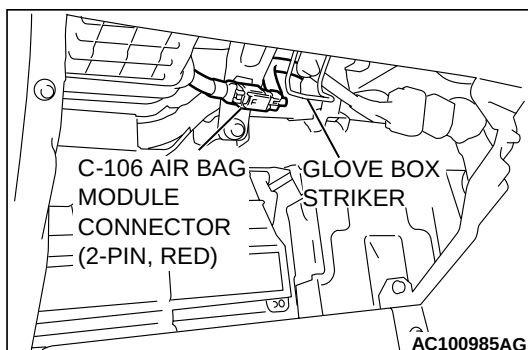
Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16.](#))

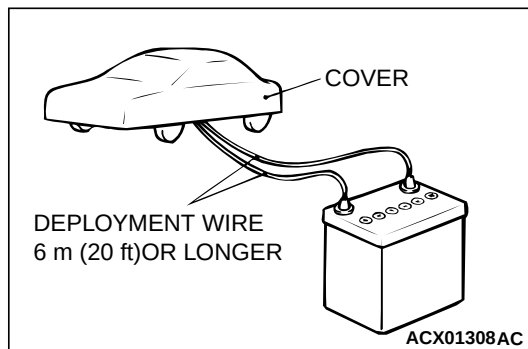
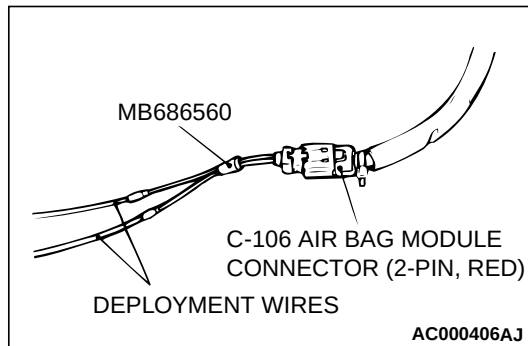
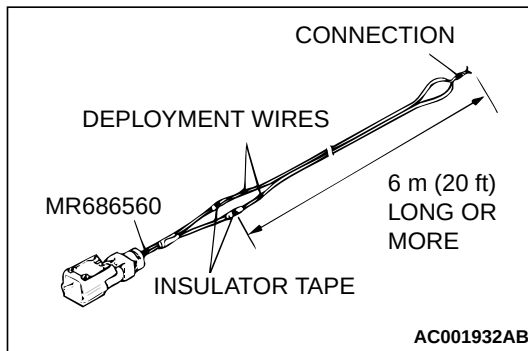
⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

2. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.
3. Remove the glove box. (Refer to GROUP 52A, Instrument Panel [P.52A-3.](#))
4. Remove the connection between the C-106 air bag module (front passenger's side) connector (two-pin, red) and the instrument panel wiring harness connector (two-pin, red).

NOTE: If the air bag module connector is disconnected from the instrument panel wiring harness, both electrodes of the air bag module connector will be automatically shorted to prevent unintended deployment of the air bag due to static electricity, etc.





5. Connect deployment wires, each 6 meters (20 feet) or longer, to the two leads of special tool MB686560, and cover the connections with insulation tape. The other ends of the deployment wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag module.

6. Connect the C-106 air bag module (front passenger's side) connector (two-pin, red) to special tool MB686560 and move the deployment wires out of the vehicle.

⚠ WARNING

If the glass is scratched, air bag deployment could cause it to crack and fly out of the vehicle, so always put a cover over the vehicle.

7. To suppress the operation sound as much as possible completely close all door windows, close the doors and put the cover on the vehicle.

⚠ WARNING

- ***Before deploying the air bag in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.***
 - ***The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from the air bag deployment. See Deployed Air Bag Module Disposal (Refer to [P.52B-237.](#)) for post-deployment handling instructions.***
 - ***If the air bag module fails to deploy, do not go near the module. Contact the MMNA Tech Line.***
8. At a location as far away from the vehicle as possible, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
9. After deployment, dispose of the air bag module according to the Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237.](#))

DEPLOYMENT INSIDE THE VEHICLE (when disposing of a vehicle) <Side-airbag module>

1. Move the vehicle to an isolated spot.

⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to P.52B-16.)

⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

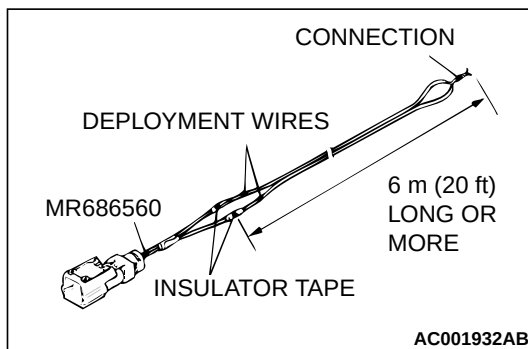
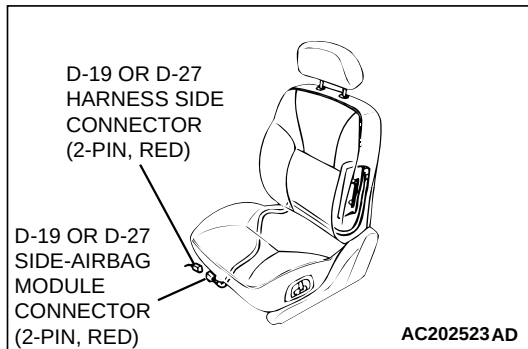
2. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

⚠ WARNING

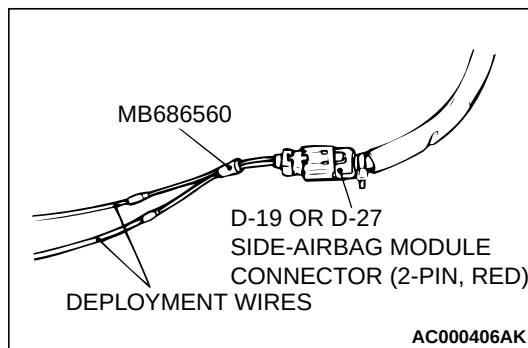
The side-airbag modules for both the driver's side and passenger's side should be deployed.

3. Remove the connection between the D-19 or D-27 side-airbag module connector (two-pin, red) and the harness side connector (two-pin, red).

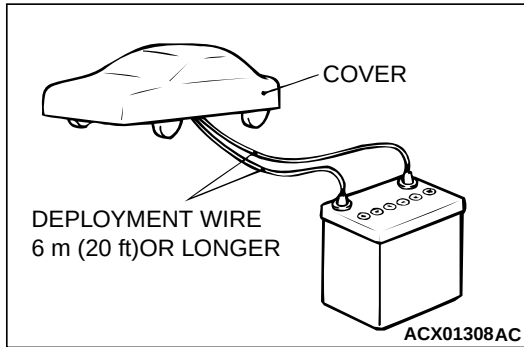
NOTE: If the air bag module connector is disconnected from the floor wiring harness, both electrodes of the air bag module connector will be automatically shorted to prevent unintended deployment of the air bag due to static electricity, etc.



4. Connect deployment wires, each 6 meters (20 feet) or longer, to the two leads of special tool MB686560, and cover the connections with insulation tape. The other ends of the deployment wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag module.



5. Connect the D-19 or D-27 side-airbag module two-pin connector (two-pin, red) to special tool MB686560 and move the deployment wires out of the vehicle.



⚠ WARNING

If the glass is scratched, air bag deployment could cause it to crack and fly out of the vehicle, so always put a cover over the vehicle.

6. To suppress the operation sound as much as possible completely close all door windows, close the doors and put the vehicle.

⚠ WARNING

- ***Before deploying the air bag in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.***
 - ***The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from the air bag deployment. See Deployed Air Bag Module Disposal (Refer to [P.52B-237.](#)) for post-deployment handling instructions.***
 - ***If the air bag module fails to deploy, do not go near the module. Contact the MMNA Tech Line.***
7. At a location as far away from the vehicle as possible, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
 8. After deployment, dispose of the front seatback assembly (air bag module) according to the Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237.](#))

DEPLOYMENT INSIDE THE VEHICLE (when disposing of a vehicle) <Seat belt pre-tensioner>

1. Move the vehicle to an isolated spot.

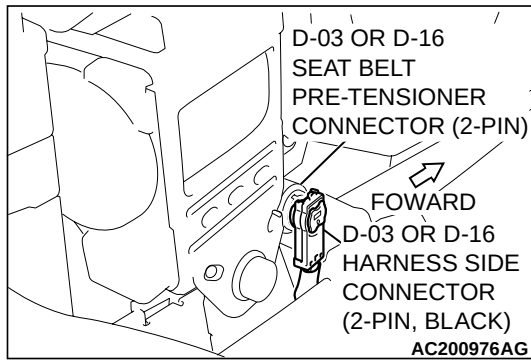
⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16.](#))

⚠ WARNING

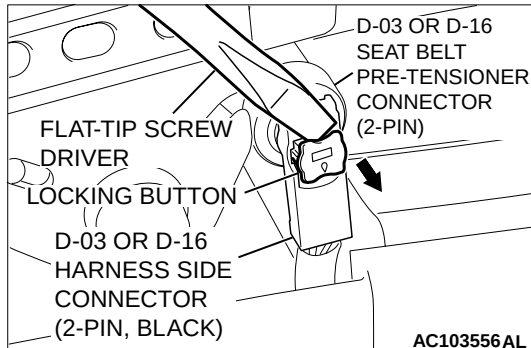
Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.

2. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.
3. Remove the center pillar lower trim. (Refer to GROUP 52A, TRIMS [P.52A-12.](#))

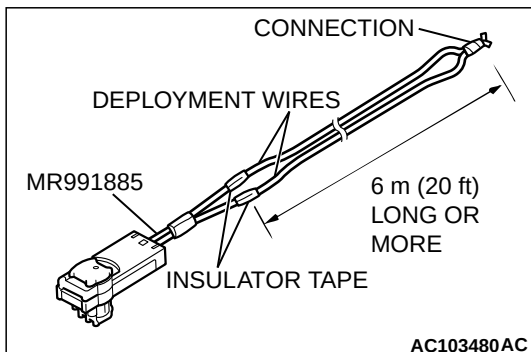


4. Execute the following steps to disconnect the connection between D-03 or D-16 seat belt pre-tensioner connector (two-pin) and harness side connector (two-pin, black).

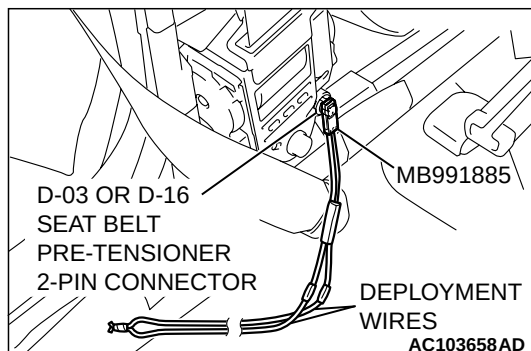
NOTE: If the seat belt pre-tensioner connector is disconnected from the floor wiring harness, both electrodes of the seat belt pre-tensioner connector will be automatically shorted to prevent unintended operation of the seat belt pre-tensioner due to static electricity, etc.



- (1) Use a flat-tip screwdriver to pull out forward and unlock the harness side connector (two-pin, black) locking button.
- (2) Disconnect the D-26 or D-39 harness side connector.



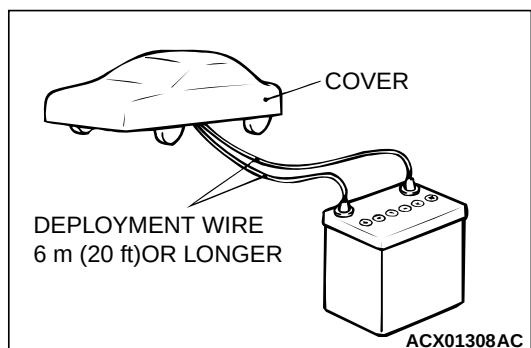
5. Connect deployment wires, each 6 meters (20 feet) or longer, to the two leads of special tool MB991885, and cover the connections with insulation tape. The other ends of the deployment wires should be connected to each other (short-circuited), to prevent sudden unexpected operate of the seat belt pre-tensioner.



6. Connect the D-03 or D-16 seat belt pre-tensioner two-pin connector to special tool MB686560 and move the deployment wires out of the vehicle.

⚠ WARNING

If the glass is scratched, seat belt pre-tensioner operation could cause it to crack and fly out of the vehicle, so always put a cover over the vehicle.



7. To suppress the operation sound as much as possible completely close all door windows, close the doors and put the cover on the vehicle.

 WARNING

- *Before operating the seat belt pre-tensioner in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.*
 - *The inflator will be quite hot immediately following the operation, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although no poisonous, do not inhale gas from the seat belt pre-tensioner operation. See Deployed Air Bag and Operated Seat Belt pre-tensioner Disposal (Refer to [P.52B-237](#).) for post-operation handling instructions.*
 - *If the seat belt pre-tensioner fails to operate, do not go near the seat belt pre-tensioner. Contact the MMNA Tech Line.*
8. At a location as far away from the vehicle as possible, disconnect the two connected wires from each the, and connect them to the two terminals of the battery (which has been removed from the vehicle) to operating the seat belt pre-tensioner.
 9. After operation, dispose of the seat belt pre-tensioner according to the Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237](#).)

DEPLOYMENT OUTSIDE THE VEHICLE <Air bag module (driver's side)>

 DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16](#).)

 WARNING

- *Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.*
 - *Deploy the air bag in a wide, flat area at least 6 meters (20 feet) away from obstacles and other people.*
 - *Do not perform deployment outside if a strong wind is blowing. If there is a slight breeze, place the air bag module downwind from the battery.*
1. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

⚠ CAUTION

Once disconnected, both electrodes of the driver's air bag module connector short automatically to prevent accidental deployment caused by static etc. Still, in consideration of the accidental deployment, store the air bag module on flat place with deployment surface facing up. Also, do not put anything on it.

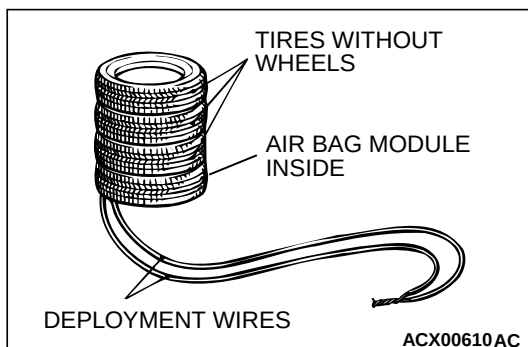
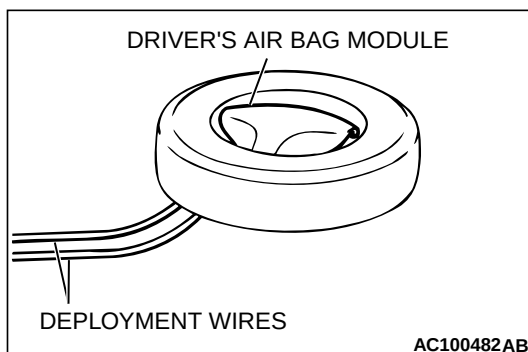
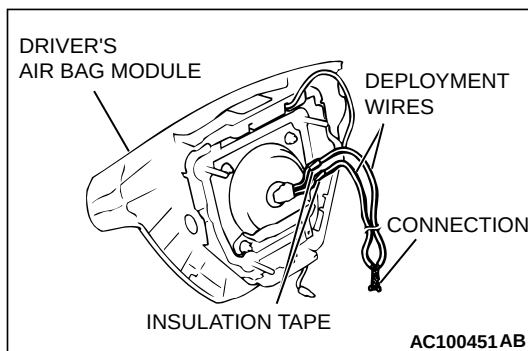
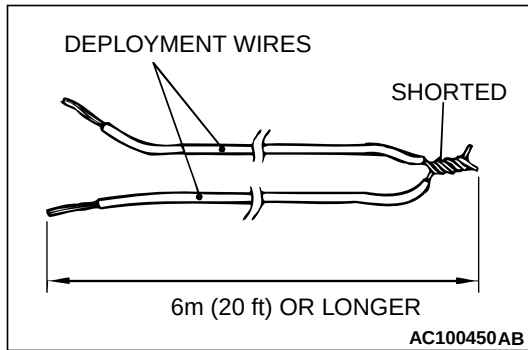
2. Remove the air bag module from the vehicle. (Refer to [P.52B-205.](#))

3. Prepare two wires longer than 6 meters (20 feet) for deployment and connect the terminals in one end to short-circuit. This is to prevent accidental deployment caused by static etc.

⚠ CAUTION

Never fail to do Step 4 in order to prevent accidental deployment caused by static.

4. Touch the vehicle's body with bare hands to discharge static in you.



5. Using pliers, cut the driver's air bag module connector from the harnesses. Connect the deployment wires to each harness that has been cut and insulate the connections with plastic tape.

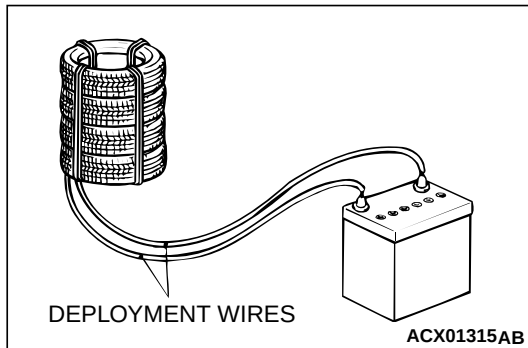
6. Install a nut to the bolt behind the driver's air bag module and tie thick wire there for securing.

7. Route the deployment wires connected to the driver's air bag module beneath an old tire and wheel assembly. Then, using the wire tied to the bolt, secure the driver's air bag module to the tire and wheel assembly with the deployment surface facing up.

8. Place three old tires without wheels on the tire secured with the driver's air bag module.

⚠ WARNING

- **Before deployment, check carefully to be sure that no one is nearby.**
- **The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from air bag deployment. See Deployed Air Bag Module Disposal and Operated Seat Belt Pre-tensioner (Refer to [P.52B-237.](#)) for post-deployment handling instructions.**
- **If the air bag fails to deploy, do not go near the module. Contact the MMNA Teach Line.**



9. At a location as far away from the air bag module as possible, and from a shielded position, disconnect the two connected wires from each other, and connect them, to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
10. Discard the deployed air bag module as specified in Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237.](#))

DEPLOYMENT OUTSIDE THE VEHICLE <Air bag module (front passenger's side)>

⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16.](#))

⚠ WARNING

- **Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.**
 - **Deploy the air bag in a wide, flat area at least 6 meters (20 feet) away from obstacles and other people.**
 - **Do not perform deployment outside if a strong wind is blowing. If there is a slight breeze, place the air bag module downwind from the battery.**
1. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

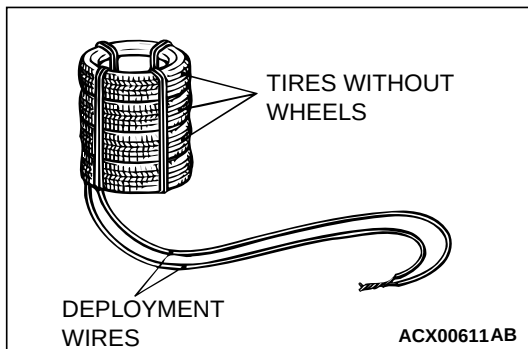
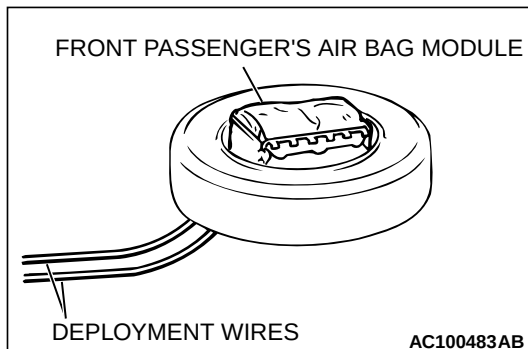
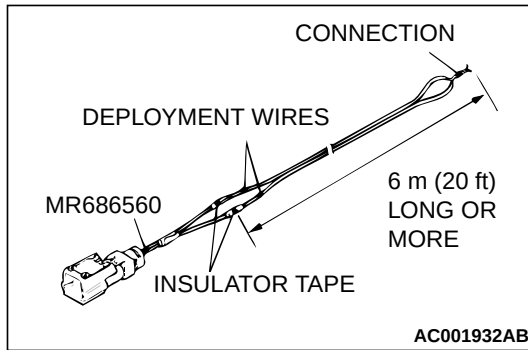
⚠ CAUTION

Once disconnected, both electrodes of the front passenger's air bag module connector short automatically to prevent accidental deployment caused by static etc. Still, in consideration of the accidental deployment, store the air bag module on flat place with deployment surface facing up. Also, do not put anything on it.

2. Remove the air bag module from the vehicle. (Refer to [P.52B-205.](#))
3. Connect two wires, each 6 meters (20 feet) or longer, to the two leads of special tool MB686560, and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag module.
4. Connect the deployment wires to special tool MB686560, pass it beneath the tire and wheel assembly, and connect it to the air bag module.

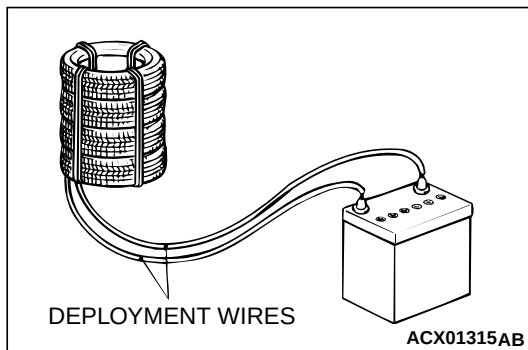
⚠ CAUTION

- The adapter harness below the wheel should be loose. If it is too tight, the reaction when the air bag deploys could damage the adapter harness.
 - During deployment, the connector of special tool MB686560 must not be between the tires.
5. Pass the thick wire through the air bag module mounting hole, and then secure the air bag module to an old tire with a wheel in it so that the pad on the module is facing upwards.
 6. Place three old tires without wheels on top of the tire secured to the air bag module, and secure all tires together with ropes (four locations).



⚠ WARNING

- **Before deployment, check carefully to be sure that no one is nearby.**
- **The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from air bag deployment. See Deployed Air Bag Module Disposal and Operated Seat Belt Pre-tensioner (Refer to [P.52B-237.](#)) for post-deployment handling instructions.**
- **If the air bag fails to deploy, do not go near the module. Contact the MMNA Tech Line.**



7. At a location as far away from the air bag module as possible, and from a shielded position, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
8. Discard the deployed air bag module as specified in Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal. (Refer to [P.52B-237.](#))

DEPLOYMENT OUTSIDE VEHICLE <Side-airbag module>

⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16.](#))

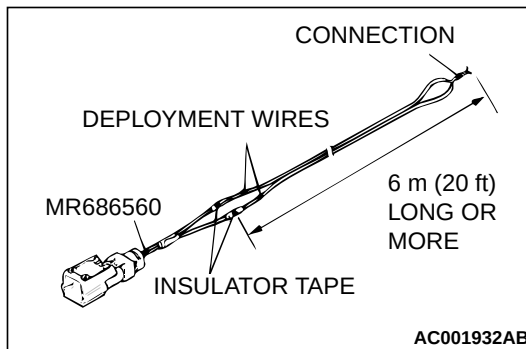
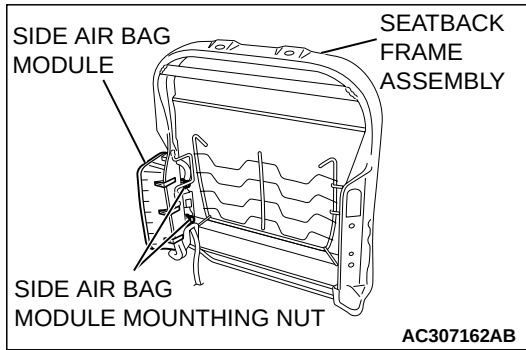
⚠ WARNING

- **Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.**
 - **Deploy the air bag in a wide, flat area at least 6 meters (20 feet) away from obstacles and other people.**
 - **Do not perform deployment outside if a strong wind is blowing. If there is a slight breeze, place the air bag module downwind from the battery.**
1. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

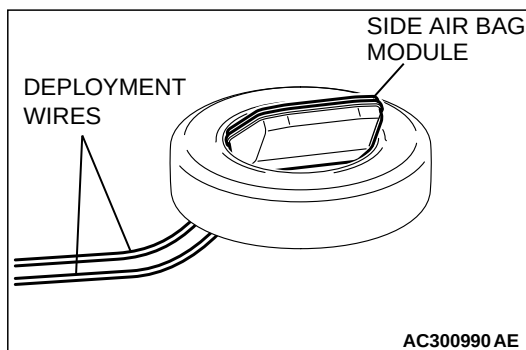
⚠ CAUTION

Once disconnected, both electrodes of the side-airbag module connector short automatically to prevent accidental deployment caused by static etc. Still, in consideration of the accidental deployment, store the air bag module on flat place with deployment surface facing up. Also, do not put anything on it.

2. Remove the front seatback assembly with side-airbag module from the vehicle (Refer to P.52B-205).
3. After disassembling the front seatback assembly, remove the side air bag module mounting nut from the seatback frame assembly.



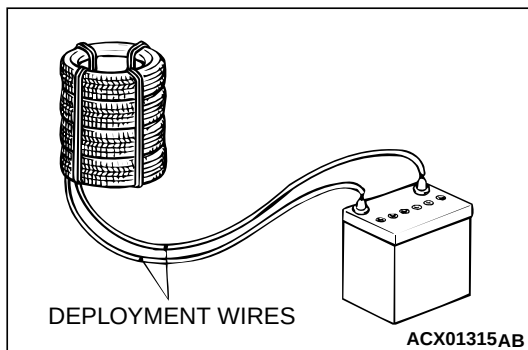
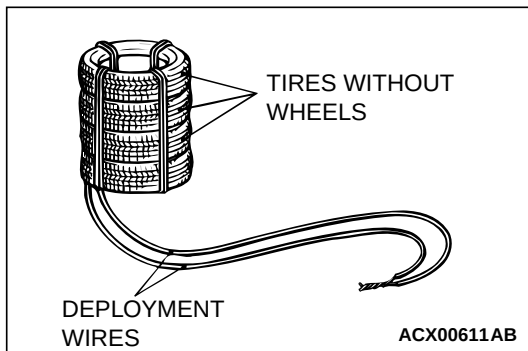
4. Connect two wires, each 6 meters (20 feet) or longer, to the two leads of SRS air bag adapter harness (MB686560), and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag module.



5. Route SRS air bag adapter harness MB686560 connected to the deployment wires beneath an old tire and wheel assembly and connect it to the side air bag module connector.

⚠ CAUTION

- The adapter harness below the wheel should be loose. If it is too tight, the reaction when the air bag deploys could damage the adapter harness.
 - During deployment, the connector of SRS air bag adapter harness (MB686560) must not be between the tires.
6. Install a nut to the side air bag module mounting bolt, tie thick wire there for securing and secure the side air bag module to an old tire and wheel assembly with the deployment surface facing up.



7. Place three old tires without wheels on top of the tire secured to the air bag module, and secure all tires together with ropes (four locations).

⚠ WARNING

- **Before deployment, check carefully to be sure that no one is nearby.**
- **The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from air bag deployment. See Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal (Refer to [P.52B-237](#).) for post-deployment handling instructions.**
- **If the air bag fails to deploy, do not go near the module.**

8. At a location as far away from the air bag module as possible, and from a shielded position, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.
9. Discard the deployed air bag module as specified in Deployed Air Bag Module and Operated Seat Belt Pre-tensioner Disposal (Refer to [P.52B-237](#)).

DEPLOYMENT OUTSIDE THE VEHICLE <Seat belt pre-tensioner>

⚠ DANGER

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to [P.52B-16](#).)

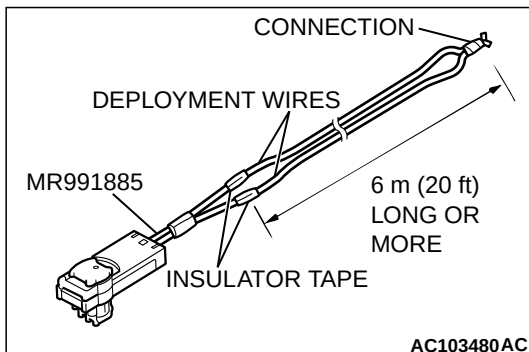
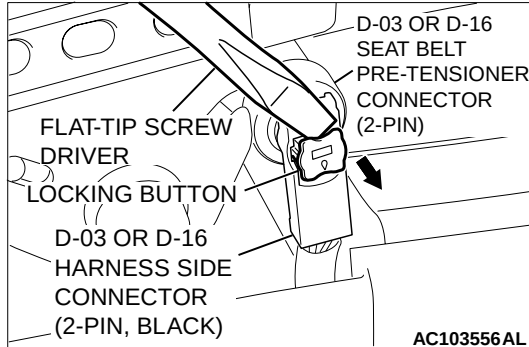
⚠ WARNING

- **Battery posts, terminals and related accessories contain lead and lead compounds. WASH HANDS AFTER HANDLING.**
 - **Operate the seat belt pre-tensioner in a wide, flat area at least 6 meters (20 feet) away from obstacles and other people.**
 - **Do not perform operation outside if a strong wind is blowing. If there is a slight breeze, place the seat belt pre-tensioner downwind from the battery.**
1. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

⚠ WARNING

Store the operated seat belt pre-tensioner the correct way up with its operation surface upper most on a flat surface. Do not place anything on top of them.

2. Remove the seat belt pre-tensioner from the vehicle. (Refer to P.52B-218.)
3. Use a flat-tip screwdriver to pull out forward and unlock the harness side connector (two-pin, black) locking button.
4. Disconnect the D-03 or D-16 harness side connector.

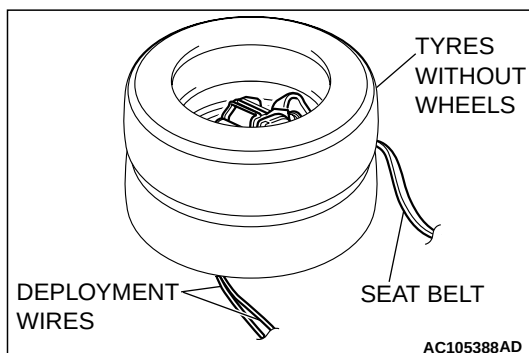


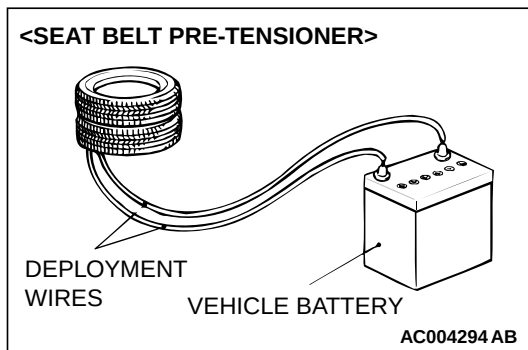
5. Connect two wires, each 6 meters (20 feet) or longer, to the two leads of special tool MB991885, and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected operation of the seat belt pre-tensioner.
6. Connect the special tool MB991885, which the deployment wires is attached to, to the seat belt pre-tensioner connector.

⚠ CAUTION

The adapter harness below the wheel should be loose. If it is too tight, the reaction when the seat belt pre-tensioner operates could damage the adapter harness.

7. Pass the thick wires through the hole on the seat belt pre-tensioner bracket and secure them to the front (raised part) of the wheel on two place.
8. Pull the seat belt out the outside of the tire, and then place one tire without a wheel inside on top of the existing tire.





⚠ WARNING

- **Before operation, check carefully to be sure that no one is nearby.**
 - **The inflator will be quite hot immediately following the operation, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from seat belt pre-tensioner operation. See Deployed Air Bag Module and Operated Seat Belt pre-tensioner Disposal (Refer to [P.52B-237](#).) for post-operation handling instructions.**
 - **If the seat belt pre-tensioner fails to operate, do not go near the seat belt pre-tensioner. Contact the MMNA Tech Line.**
9. At a location as far away from the air bag module as possible, and from a shielded position, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to operated seat belt pre-tensioner.
 10. Discard the operated seat belt pre-tensioner as specified in Deployed Air Bag Module and Operated Seat Belt pre-tensioner Disposal. (Refer to [P.52B-237](#).)

DEPLOYED AIR BAG MODULE AND OPERATED SEAT BELT PRE-TENSIONER DISPOSAL

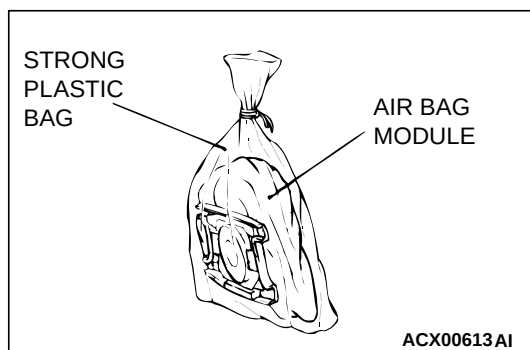
After deployment and operation, the air bag module and seat belt pre-tensioner should be disposed of in the same manner as any other scrap parts, adhering to local laws and/or legislation. Observe the following precautions during air bag or seat belt pre-tensioner disposal:

1. The inflator will be quite hot immediately following deployment, so wait at least 30 minutes to allow it cool before attempting to handle it.
2. Do not put water or oil on the air bag after deployment or on the seat belt pre-tensioner after operation.

⚠ WARNING

If after following these precautions, any material does get into the eyes or on the skin, immediately rinse the affected area with a large amount of clean water. If any irritation develops, seek medical attention.

3. There may be material on the deployed air bag module or the operated seat belt pre-tensioner, that could irritate the eye and/or skin. Wear gloves and safety glasses when handling a deployed air bag module or the operated seat belt pre-tensioner.



4. Tightly seal the air bag module and seat belt pre-tensioner in a strong plastic bag for disposal.
5. Be sure to always wash your hands after completing this operation.

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

M1524004900318

ITEM	SPECIFICATION
Air bag module(s) and clock spring	
Air bag module (driver's side) nut	7.4 ± 0.4 N·m (65 ± 4 in-lb)
Clock spring screw	0.69 ± 0.15 N·m (6 ± 1 in-lb)
Hexagon socket head bolt	50 ± 5 N·m (37 ± 4 ft-lb)
Seat belts with pre-tensioner	
Seat belt lower anchor bolt	44 ± 10 N·m (33 ± 7 ft-lb)
Seat belt shoulder anchor bolt	44 ± 10 N·m (33 ± 7 ft-lb)
Seat belt with pre-tensioner mounting bolt	44 ± 10 N·m (33 ± 7 ft-lb)
Side impact sensor	
Side impact sensor nut	4.9 ± 1.0 N·m (43 ± 8 in-lb)
SRS control unit (SRS-ECU)	
SRS-ECU bracket bolt	4.9 ± 1.0 N·m (43 ± 8 in-lb)
SRS-ECU mounting nut	4.9 ± 1.0 N·m (44 ± 8 in-lb)