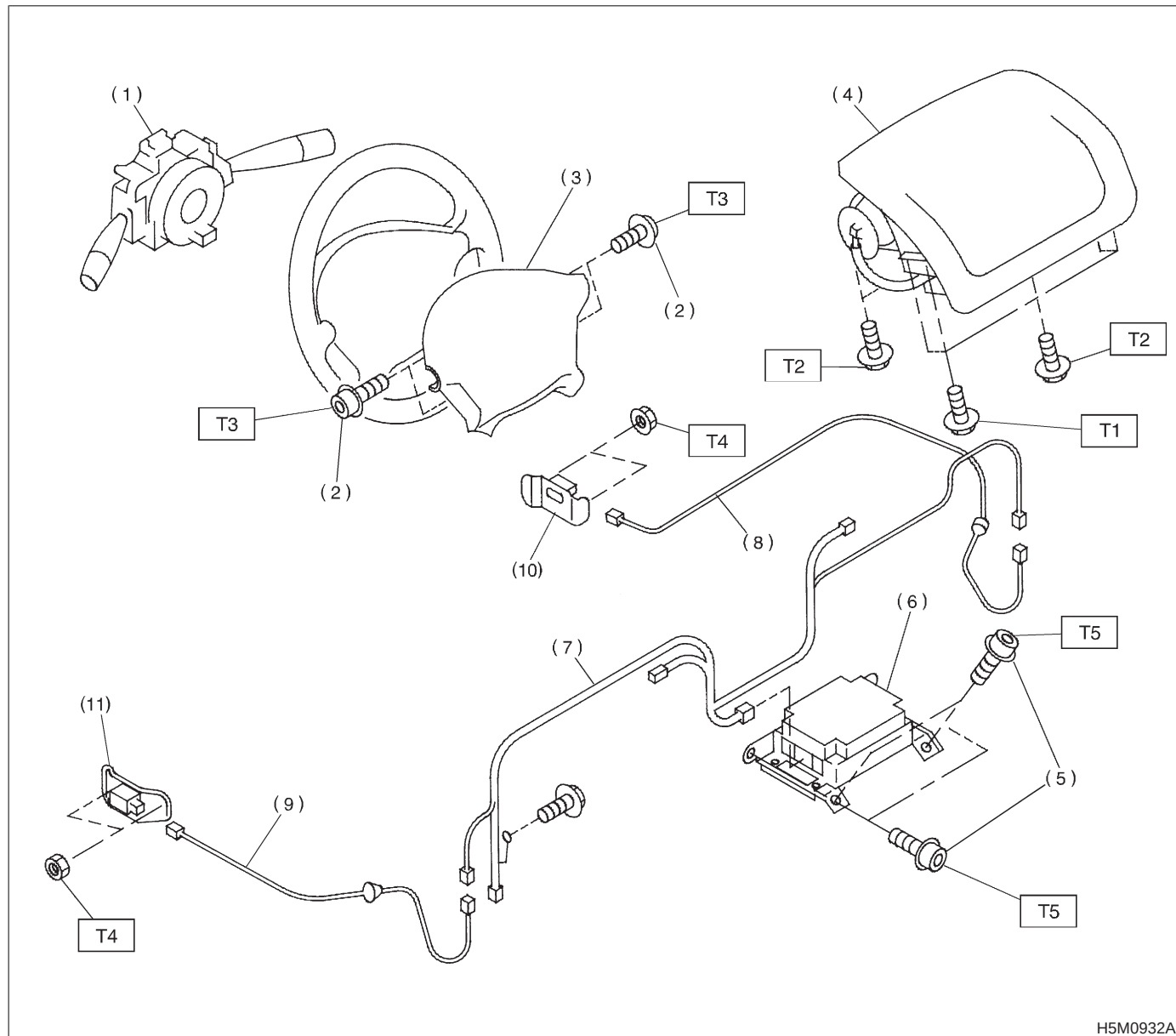


SUPPLEMENTAL RESTRAINT SYSTEM

5-5

	Page
C COMPONENT PARTS	2
1. SRS Airbag	2
W SERVICE PROCEDURE	3
1. General	3
2. Inspection and Replacement Standards	5
3. Airbag Module	7
4. Main Harness	10
5. Airbag Control Module	11
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7. Front Sub Sensor	13

1. SRS Airbag



- | | |
|---|-----------------------------------|
| (1) Combination switch ASSY with roll connector | (6) Airbag control module |
| (2) TORX® bolt T30 | (7) Airbag main harness |
| (3) Airbag module ASSY (Driver) | (8) Front sub sensor harness (RH) |
| (4) Airbag module ASSY (Passenger) | (9) Front sub sensor harness (LH) |
| (5) TORX® bolt T40 | (10) Front sub sensor (RH) |
| | (11) Front sub sensor (LH) |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 4.4±1.5 (0.45±0.15, 3.3±1.1)

T2: 7.4±2.0 (0.75±0.2, 5.4±1.4)

T3: 10±2 (1.0±0.2, 7.2±1.4)

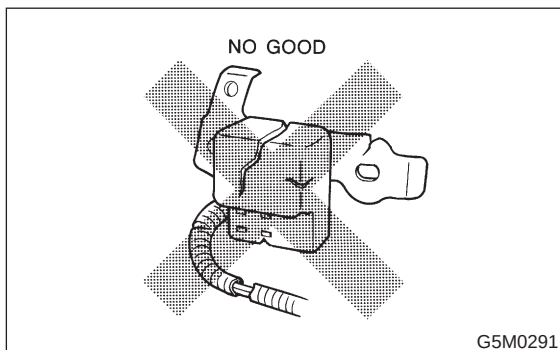
T4: 20±4 (2.0±0.4, 14.5±2.9)

T5: 25±2 (2.5±0.2, 18.1±1.4)

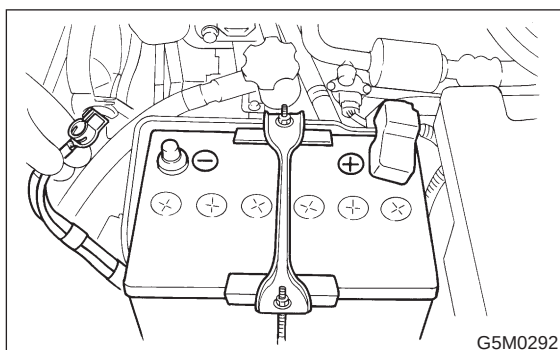
1. General

A: PRECAUTION

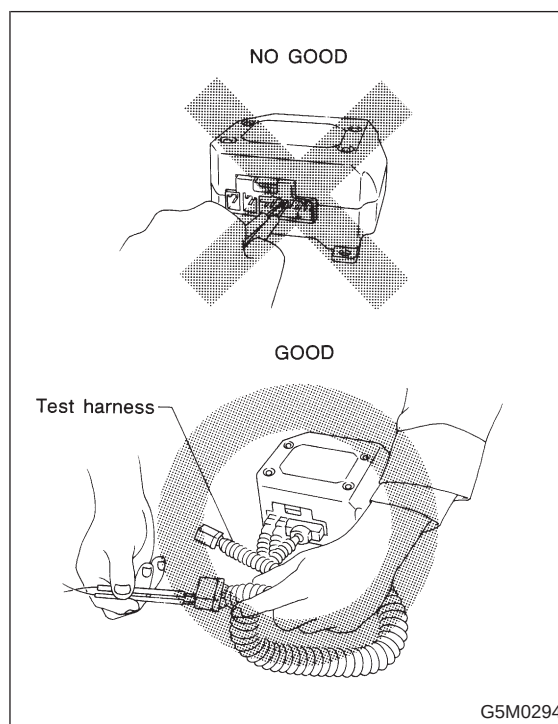
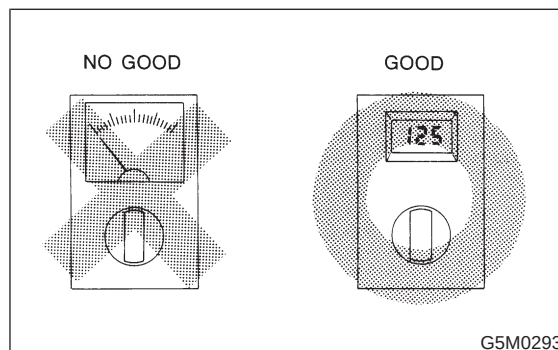
- If any of the airbag system parts such as sensors, airbag module, airbag control module and harness are damaged or deformed, replace with new genuine parts.



- When servicing, be sure to turn the ignition switch off, disconnect the negative (-) battery terminal then the positive (+) terminal in advance, and wait for more than 20 seconds before starting work.

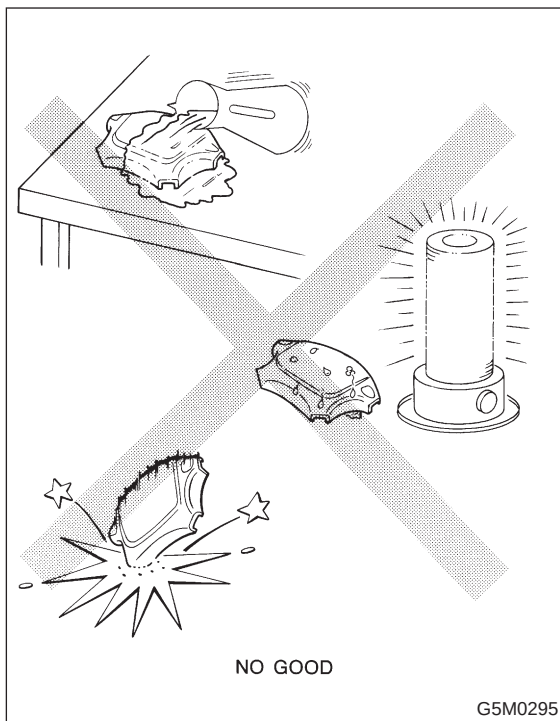


- When checking the system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously. Do not directly apply the tester probe to any connector terminal of the airbag. When checking, use a test harness.

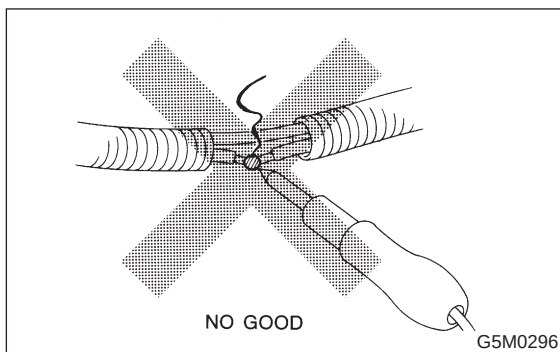


1. General

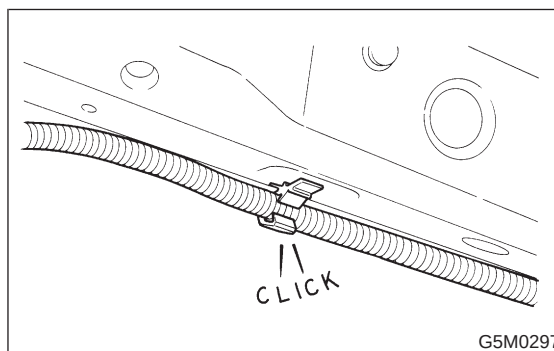
- Do not drop the airbag modulator parts, subject it to high temperatures over 90°C (194°F), or apply oil, grease, or water to it; otherwise, the internal parts may be damaged and its reliability greatly lowered.



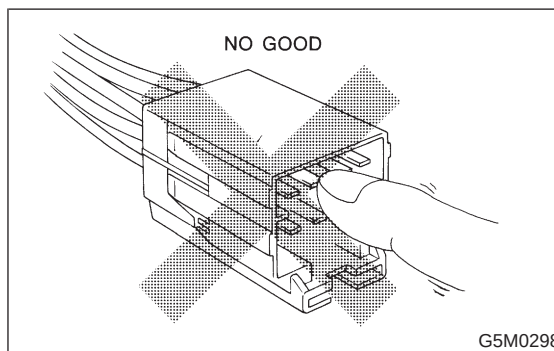
- If any damage or open is found on the SRS airbag system wire harness, do not attempt to repair using soldering, etc. Be sure to replace the faulty harness with a new genuine part.



- Install the wire harness securely with the specified clips so as to avoid interference or jamming with other parts.



- Before connecting the airbag system to ground, make sure that the grounding terminal is free from paint and contamination.
- Do not allow water or oil to come in contact with the connector terminals. Do not touch the connector terminals.



- When connecting or disconnecting airbag connector, make sure ignition switch is OFF.

2. Inspection and Replacement Standards

A: VEHICLES WHICH BECOME INVOLVED IN A COLLISION

If the vehicle equipped with an SRS airbag system is damaged in a collision, the airbag system parts must be checked and replaced in accordance with the following standards:

- After faulty parts are replaced, the warning light operation must be checked.
- When the ignition switch is turned ON, it lights up for 8 seconds and then it goes out for at least 30 seconds.
- The trouble code stored in memory must be erased after the check.

B: AIRBAG MODULE (DRIVER AND PASSENGER)

1. INSPECTION STANDARD

- The vehicle damaged in a collision (regardless of whether or not airbag is deployed).
- The designated trouble code is output during self-diagnosis. <Ref. to 5-5 [T4A0].>

2. REPLACEMENT STANDARD

- Airbag is deployed.
- The pad surface is scratched or cracked.
- Harness and/or connector is deformed or cracked, their circuits are broken, lead wire is exposed, etc.
- Mounting bracket is cracked or deformed.
- The module surface is fouled with foreign matter. (grease, oil, water, cleaning solvent, etc.)
- Airbag module dropped to the floor/ground.
- Airbag module determined as faulty during self-diagnosis.

C: MAIN HARNESS

1. INSPECTION STANDARD

- A vehicle damaged in a collision (regardless of whether or not airbag is deployed).
- The designated trouble code is output during self-diagnosis. <Ref. to 5-5 [T4A0].>

2. REPLACEMENT STANDARD

- Harness circuit is broken, lead wire is exposed, corrugated tube is cracked, etc.
- Connector is scratched or cracked.
- The designated trouble code is output during self-diagnosis.

D: AIRBAG CONTROL MODULE

1. INSPECTION STANDARD

- A vehicle damaged in a collision (regardless of whether or not airbag is deployed).
- The designated trouble code is output during self-diagnosis. <Ref. to 5-5 [T4A0].>

2. REPLACEMENT STANDARD

- Control module is cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched or cracked.
- Control module dropped to the floor/ground.
- Control module determined as faulty during diagnostics.
- Airbag is deployed.

E: COMBINATION SWITCH

1. INSPECTION STANDARD

- A vehicle damaged in a collision (regardless of whether or not airbag is deployed).
- The designated trouble code is output during self-diagnosis. <Ref. to 5-5 [T4A0].>

2. REPLACEMENT STANDARD

- Combination switch or steering roll connector is deformed or cracked.

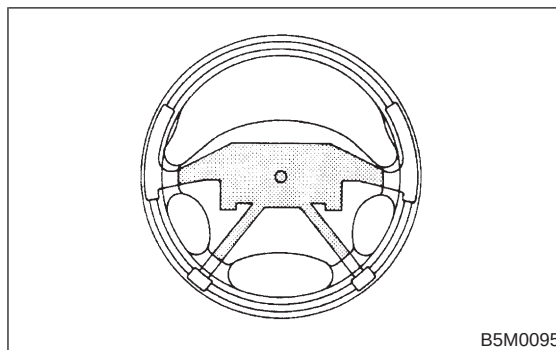
F: STEERING WHEEL

1. INSPECTION STANDARD

- A vehicle damaged in a collision (regardless of whether or not airbag is deployed).

2. REPLACEMENT STANDARD

- Check steering wheel insert for cracks or deformities.
- Check to ensure that new airbag module is properly installed in steering wheel
- After installing airbag module, check to ensure that it is free of interference with steering wheel and that clearance between the two is equal at all points.



B5M0095

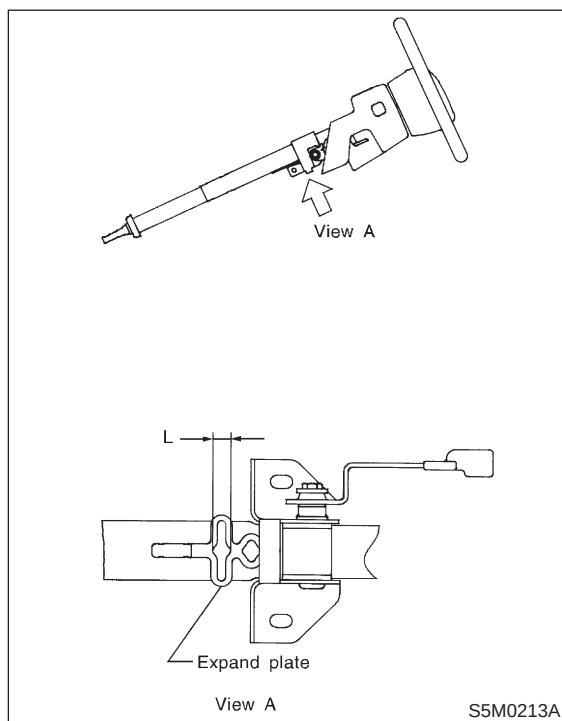
G: STEERING COLUMN ASSEMBLY**1. INSPECTION STANDARD**

- A vehicle damaged in a collision (regardless of whether or not airbag is deployed).

2. REPLACEMENT STANDARD

- Check to ensure that clearance of expand plate on steering column under side is within specifications.

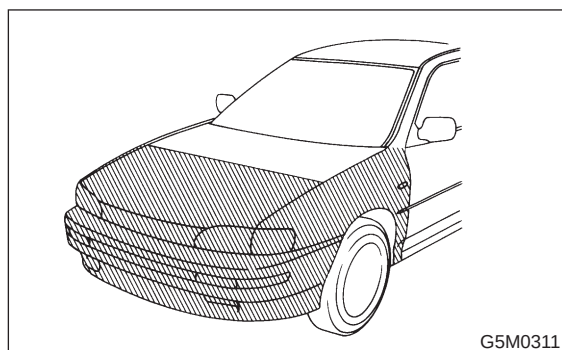
Clearance of expand plate: L
More than 15 mm (0.59 in)

**2. REPLACEMENT STANDARD**

- Bracket is deformed.
- Housing is cracked or deformed.
- The label (that identifies the manufacturing number) is peeled or deteriorated.
- Harness circuit is broken, lead wire is exposed, corrugated tube is cracked, etc.
- Front sub sensor determined as faulty as a result of Diagnostics.
- Airbag is deployed.
- Front sub sensor dropped to the floor/ground.

H: FRONT SUB SENSOR**1. INSPECTION STANDARD**

- Check the front section (Refer to shaded area of vehicle in figure) for damage, regardless of whether or not airbag is deployed.



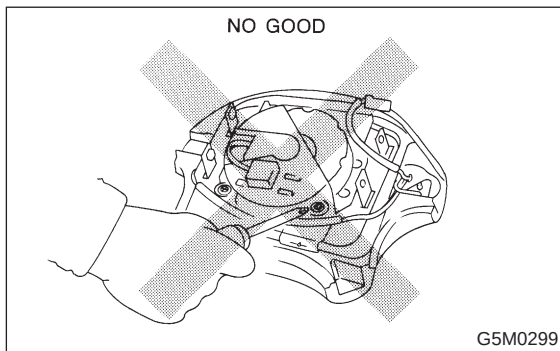
- The designated trouble code is output during self-diagnosis. <Ref. to 5-5 [T4A0].>

3. Airbag Module

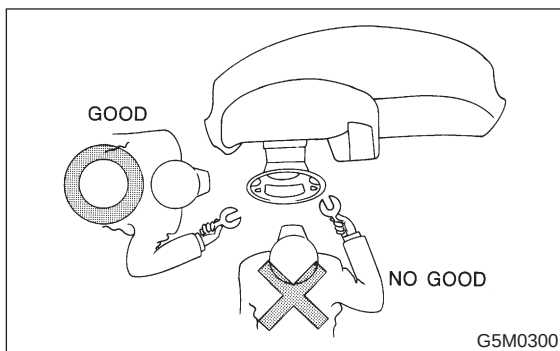
A: REMOVAL AND INSTALLATION

CAUTION:

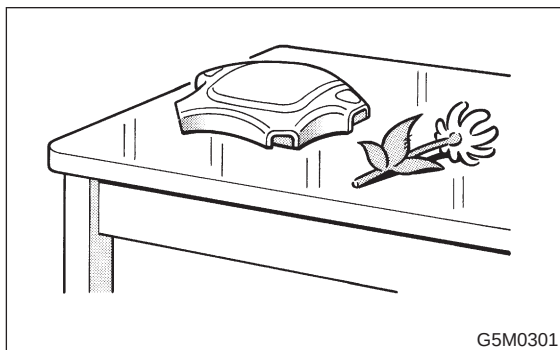
- The airbag module (driver side and passenger side) must not be disassembled. The airbag module cannot be used again once inflated.



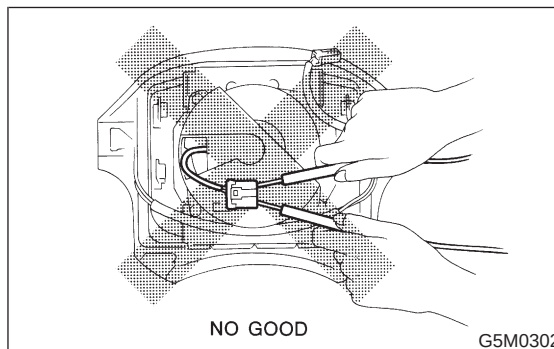
- When removing and installing the airbag module (driver side and passenger side), the operator should stand, as much as possible, on the side of the airbag module.



- After removal, the airbag module (driver side and passenger side) should be kept away from heat and light sources, and stored on a clean, flat surface to prevent from any damage to its lower structure.



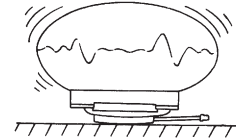
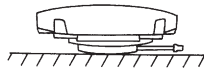
- Do not check airbag module (driver side and passenger side) continuity with airbag removed from the vehicle body.



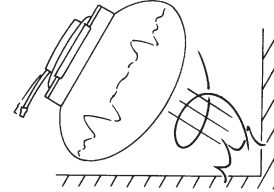
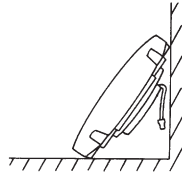
- Replace airbag module (driver side and passenger side) with a new one, should any of the following conditions develop:
 - Pad surface is scratched or cracked.
 - Connector harness is damaged.
 - Inflator side structure of module is cracked or deformed.
 - Module is excessively stained with water, oil, etc.
 - Module was accidentally dropped.
- When storing a removed airbag module (driver side and passenger side), be sure to place it in parallel with floor with the pad facing up. Do not place it against a wall, or place anything on the pad; otherwise, a dangerous condition may be created if the module malfunctions.

Driver side

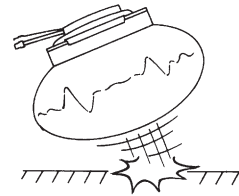
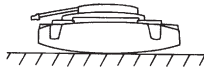
GOOD



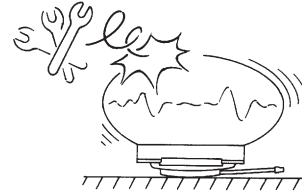
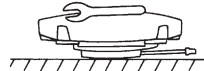
NO GOOD



NO GOOD

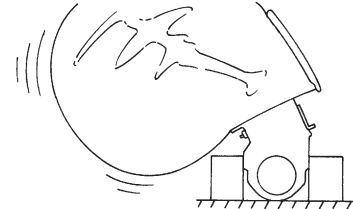
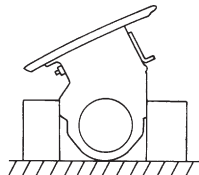


NO GOOD

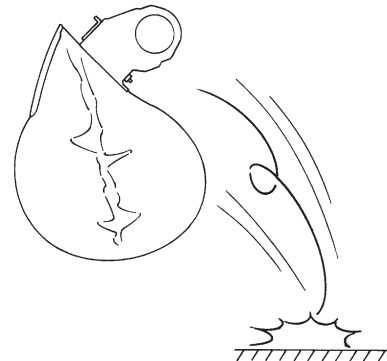
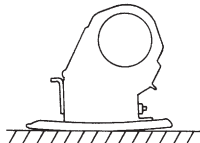


Passenger side

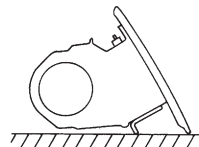
GOOD



NO GOOD



NO GOOD

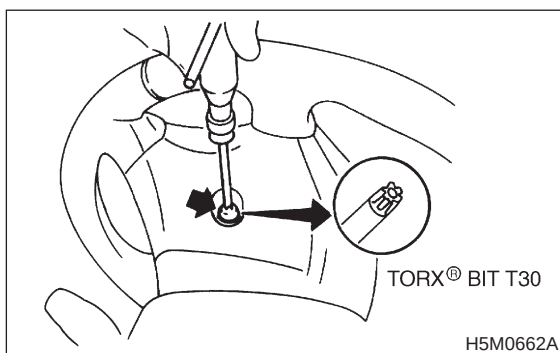


G5M0604

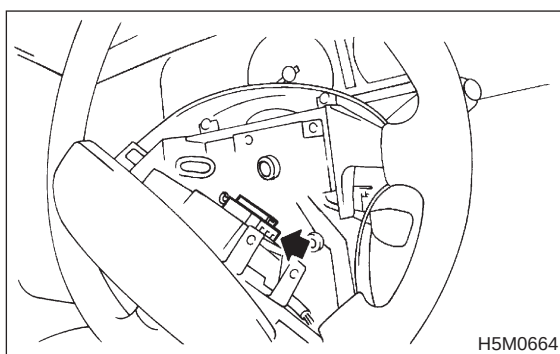
1. DRIVER SIDE

- 1) Set front wheels in straight ahead position.
- 2) Turn ignition switch off.
- 3) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.

- 4) Using TORX® BIT T30, remove two TORX® bolts.



- 5) Disconnect airbag connector on back of airbag module. <Ref. to 5-5 [M2F2].>



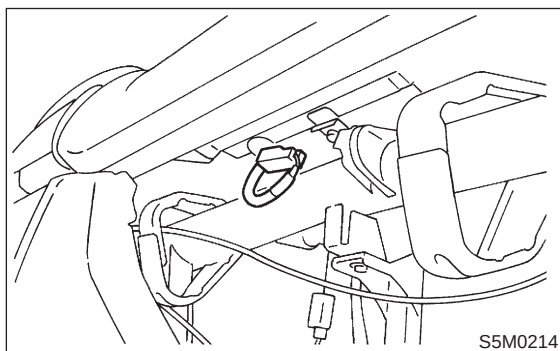
- 6) Refer to “CAUTION:” for handling of a removed airbag module. <Ref. to 5-5 [W3A0].>
7) Installation is in the reverse order of removal.

CAUTION:

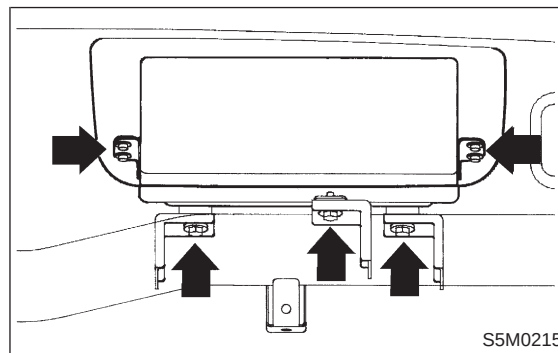
Do not allow harness and connectors to interfere or get caught with other parts.

2. PASSENGER SIDE

- 1) Turn ignition switch off.
2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.
3) Remove glove box. <Ref. to 5-4 [W1A0].>
4) Disconnect airbag connector. <Ref. to 5-5 [M2F2].>



- 5) Remove seven bolts and then carefully remove airbag module.



- 6) Refer to “CAUTION:” for handling of a removed airbag module. <Ref. to 5-5 [W3A0].>
7) Installation is in the reverse order of removal.

CAUTION:

Do not allow harness and connectors to interfere or get caught with other parts.

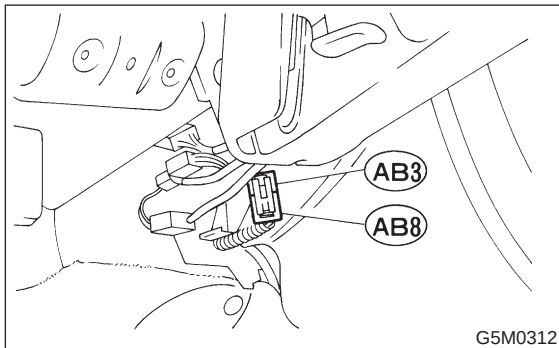
4. Main Harness

A: REMOVAL AND INSTALLATION

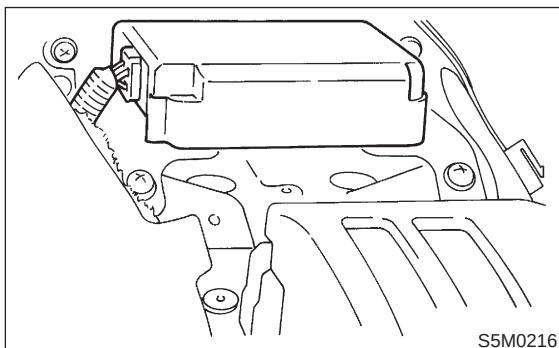
- 1) Turn ignition switch off.
- 2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove lower cover. <Ref. to 5-4 [W1A0].>
- 4) Disconnect airbag connector (AB3) and (AB8) below steering column. <Ref. to 5-5 [M2F2].>

CAUTION:

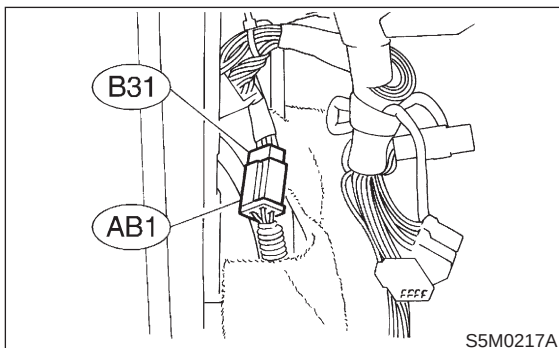
Do not reconnect airbag connector at steering column until main harness are securely re-installed.



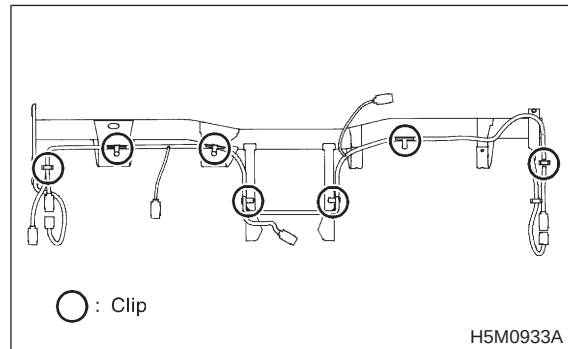
- 5) Remove instrument panel. <Ref. to 5-4 [W1A0].>
- 6) Disconnect connector from airbag control module.



- 7) Disconnect body harness connector (B31) from connector (AB1).



- 8) Disconnect front sub sensor connector from airbag main harness.
- 9) Detach clips from steering support beam and remove main harness.



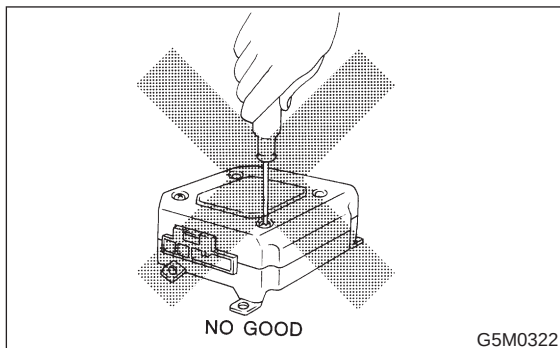
- 10) Installation is in the reverse order of removal.

5. Airbag Control Module

A: REMOVAL AND INSTALLATION

CAUTION:

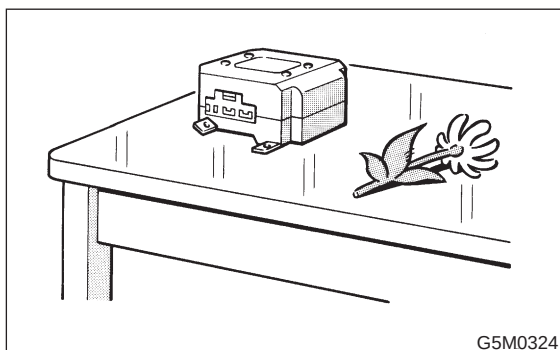
- Do not disassemble the airbag control module.



- If the airbag control module is deformed, or if water damage is suspected, replace the airbag control module with a new genuine part.



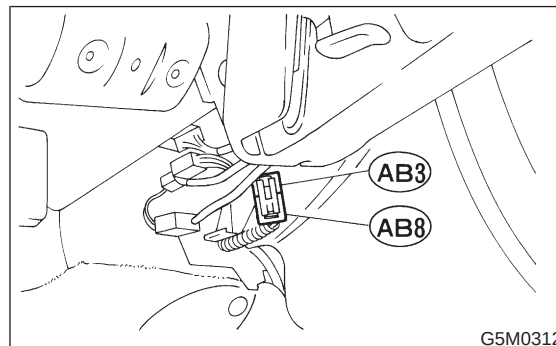
- After removal, keep the airbag control module on a dry, clean surface away from heat and light sources, and moisture and dust.



- 3) Remove lower cover. <Ref. to 5-4 [W1A0].>
- 4) Disconnect airbag connector (AB3) and (AB8) below steering column.

CAUTION:

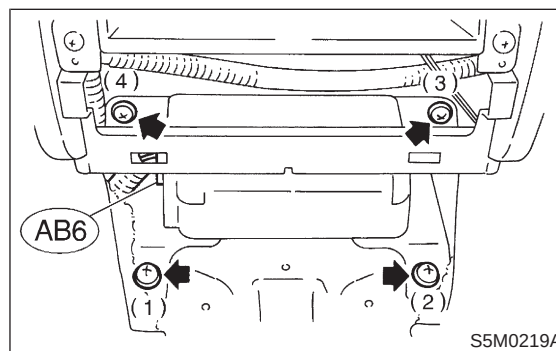
Do not reconnect airbag connector at steering column until airbag control module is securely re-installed.



- 5) Remove instrument panel console. <Ref. to 5-4 [W1A0].>
- 6) Disconnect connector from airbag control module.
- 7) Using T40 TORX® bit (Tamper resistant type), remove four TORX® bolts in numerical sequence shown in figure. Discard the old TORX® bolts.

CAUTION:

Use new TORX® bolts during re-assembly.



- 8) Installation is in the reverse order of removal.

- 1) Turn ignition switch off.
- 2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.

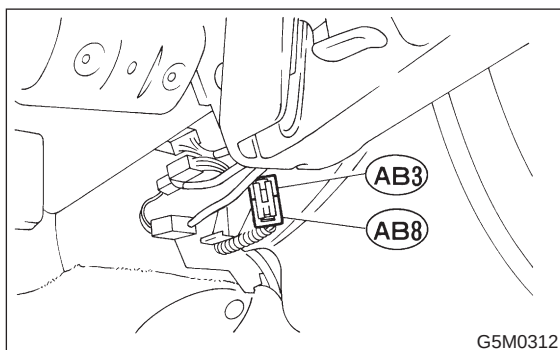
6. Combination Switch

A: REMOVAL

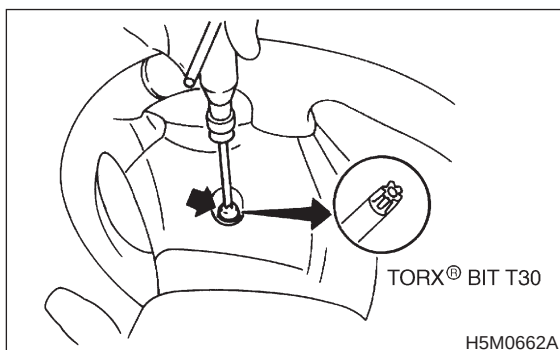
- 1) Turn ignition switch off.
- 2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove lower cover. <Ref. to 5-4 [W1A0].> Disconnect airbag connector (AB3) and (AB8) below steering column.

CAUTION:

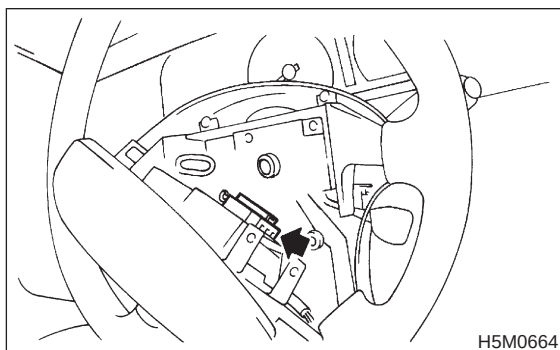
Do not reconnect airbag connector at steering column until combination switch is securely re-installed.



- 4) Disconnect combination switch connectors from body harness connector.
- 5) Set front wheels in straight ahead position. Using T30 TORX® bit, remove two TORX® bolts.



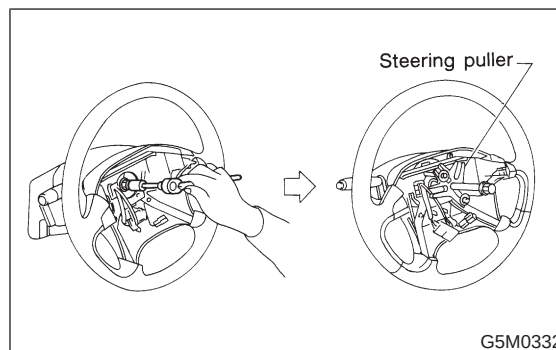
- 6) Disconnect airbag connector on back of airbag module. Remove airbag module, and place it with pad side facing upward. <Ref. to 5-5 [W3A0].>



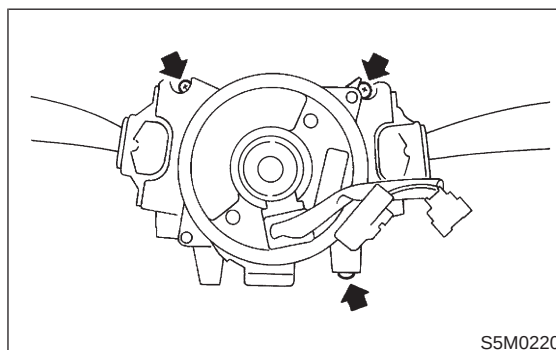
- 7) Using steering puller, remove steering wheel.

CAUTION:

Do not allow connector to interfere when removing steering wheel.



- 8) Remove steering column covers.
- 9) Removing three retaining screws, remove combination switch.

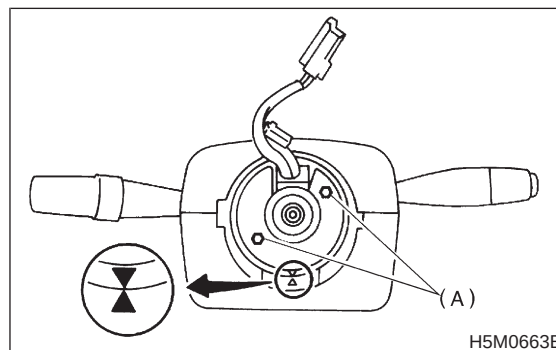


B: ADJUSTMENT

1. CENTERING ROLL CONNECTOR

Before installing steering wheel, make sure to center roll connector built into combination switch.

- 1) Make sure that front wheels are positioned straight ahead.
- 2) Install steering gearbox, steering shaft and combination switch properly. Turn roll connector pin (A) clockwise until it stops.
- 3) Then, back off roll connector pin (A) approximately 2.65 turns until "▲" marks aligned.



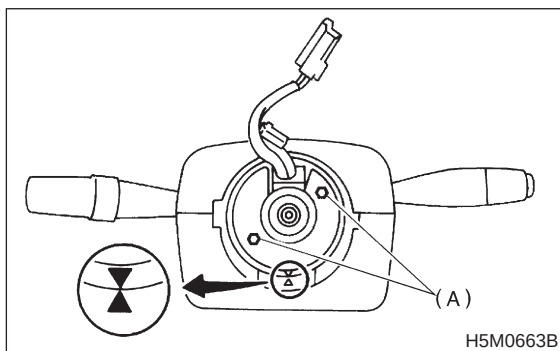
C: INSTALLATION**CAUTION:**

Failure to do this might damage roll connector.

- 1) Before installing combination switch, check to ensure that combination switch is off and front wheels are set in the straight ahead position.
- 2) Install column cover and center roll connector. <Ref. to 5-5 [W6B1].>
- 3) Install steering wheel in neutral position. Carefully insert roll connector pin (A) into hole on steering wheel.

NOTE:

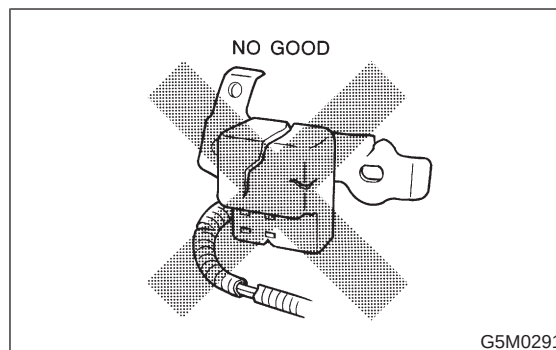
If steering wheel angle requires fine adjustment, adjust tie-rod. <Ref. to 4-3 [W3F0].>



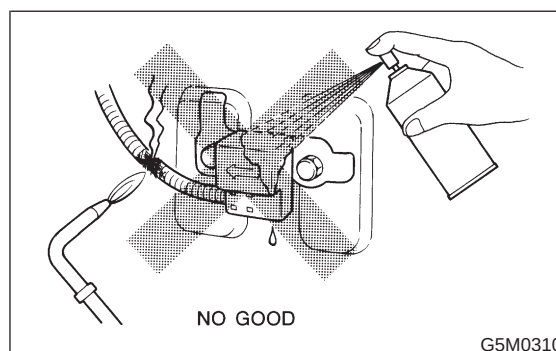
- 4) Install airbag module and lower cover in the reverse order of removal.

7. Front Sub Sensor**A: REMOVAL AND INSTALLATION****CAUTION:**

- If the front end of the vehicle body is damaged by a collision, be sure to check the left and right front sub sensors, even if the airbag was not inflated. If any damage to the sensor or any deformation of the sensor mount is found, replace with a new genuine part.



- When painting or performing sheet metal work on the front part of vehicle body, including the front wheel apron, front fender and front side frame, take utmost care not to apply dryer heat, painting mist, or the flame of the welding burner directly to the front sub sensors and wire harness of the airbag system.

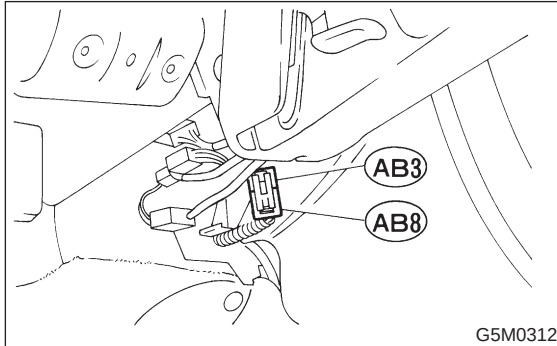
**1. FRONT SUB SENSOR HARNESS**

- 1) Turn ignition switch off.
- 2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove lower cover. <Ref. to 5-4 [W1A0].>

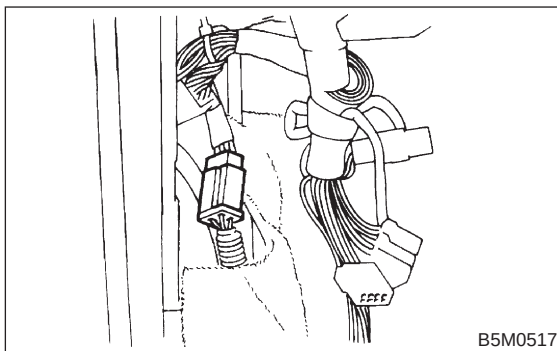
- 4) Disconnect airbag connector (AB3) and (AB8) below steering column.

CAUTION:

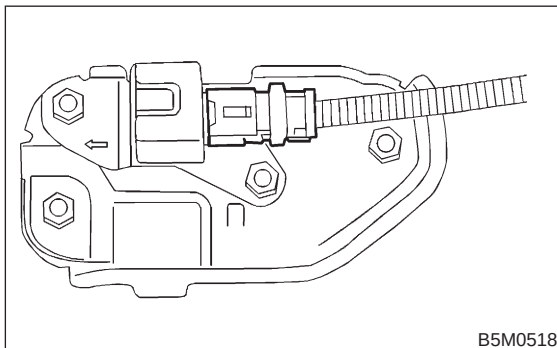
Do not reconnect airbag connector at steering column until front sub sensors are securely re-installed.



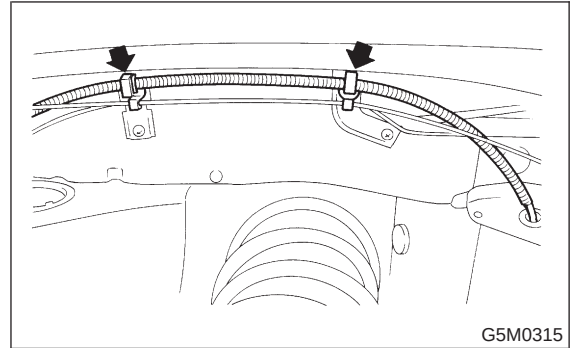
- 5) Remove front side sill cover and then disconnect front sub sensor connector. <Ref. to 5-5 [M2F2].>



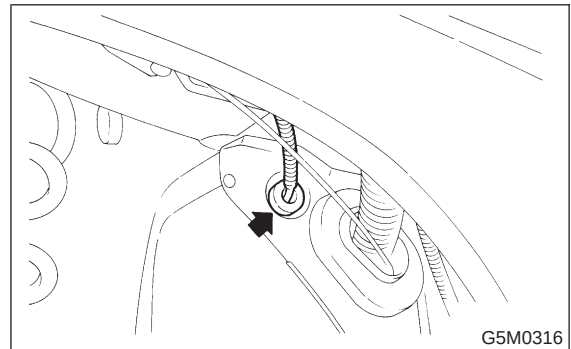
- 6) Remove front wheel and mud guard.
7) Disconnect connector from front sub sensor assembly. <Ref. to 5-5 [M2F3].>



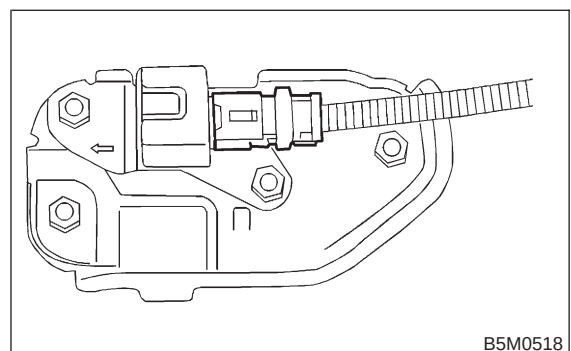
- 8) Remove wiring harness clips.



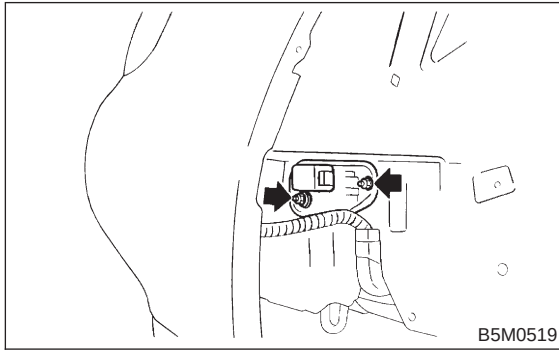
- 9) Remove grommet and then detach front sub sensor harness.

**2. FRONT SUB SENSOR ASSEMBLY**

- 1) Turn ignition switch off.
- 2) Disconnect ground cable from battery and wait for at least 20 seconds before starting work.
- 3) Remove front wheel and mud guard.
- 4) Disconnect connector from front sub sensor assembly. <Ref. to 5-5 [M2F3].>



5) Remove front sub sensor.



6) Installation is in the reverse order of removal.

MEMO: