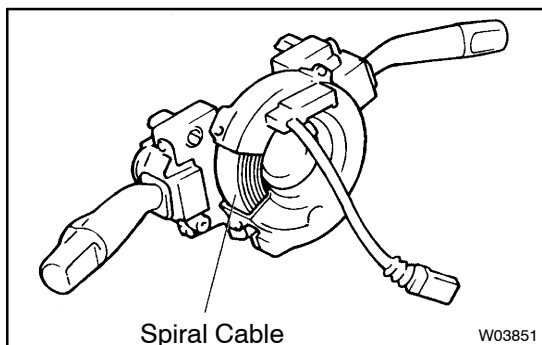


OPERATION

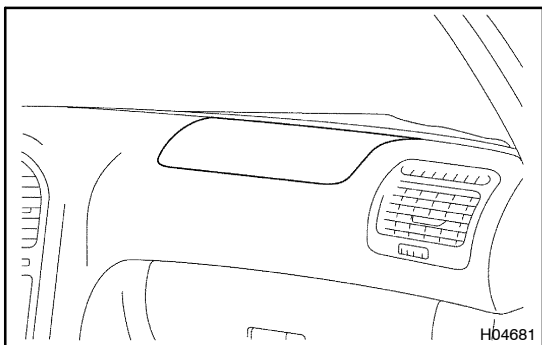
1. STEERING WHEEL PAD (with AIRBAG)

The inflator and bag of the SRS are stored in the steering wheel pad and cannot be disassembled. The inflator contains a squib, igniter charge, gas generant, etc., and inflates the bag when instructed by the airbag sensor assembly.



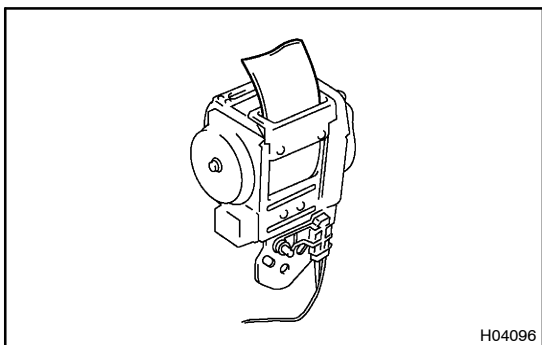
2. SPIRAL CABLE (in COMBINATION SWITCH)

A spiral cable is used as an electrical joint from the vehicle body side to the steering wheel.



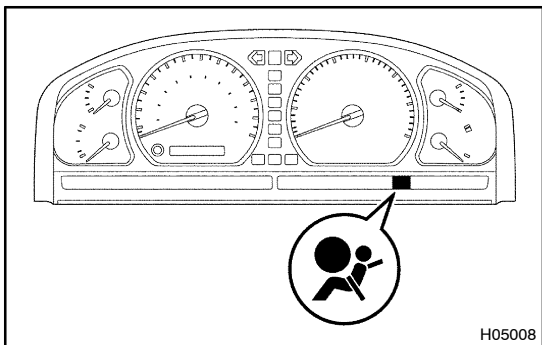
3. FRONT PASSENGER AIRBAG ASSEMBLY

The inflator and bag of the SRS are stored in the front passenger airbag assembly and cannot be disassembled. The inflator contains a squib, igniter charge and gas generant, etc., and inflates the bag when instructed by the airbag sensor assembly.



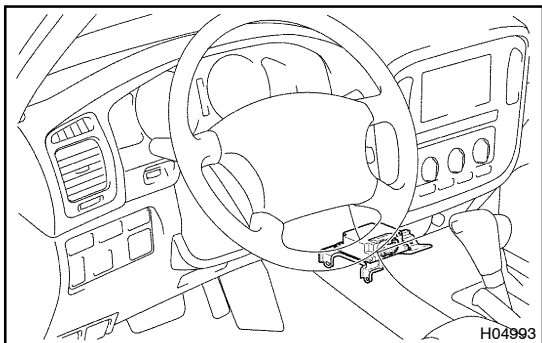
4. SEAT BELT PRETENSIONER

The seat belt pretensioner system is a component of the front seat outer belt. The pretensioner contains a squib, gas generant, strip, etc., and operates in the event of a frontal collision.



5. SRS WARNING LIGHT

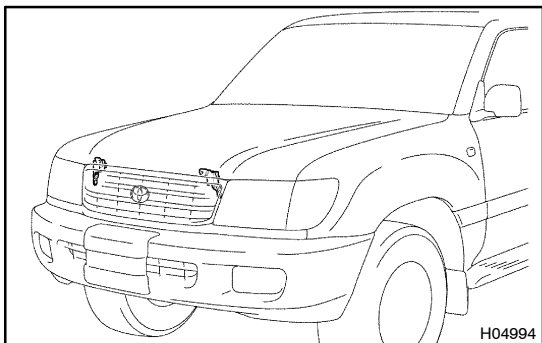
The SRS warning light is located on the combination meter. It goes on to alert the driver of trouble in the system when a malfunction is detected in the airbag sensor assembly self-diagnosis. In normal operating conditions when the ignition switch is turned to the ACC or ON position, the light goes on for about 6 seconds and then goes off.



6. AIRBAG SENSOR ASSEMBLY

The airbag sensor assembly is mounted on the floor inside the center cluster. The airbag sensor assembly consists of airbag sensor, safing sensor, diagnosis circuit, ignition control and drive circuit, etc.

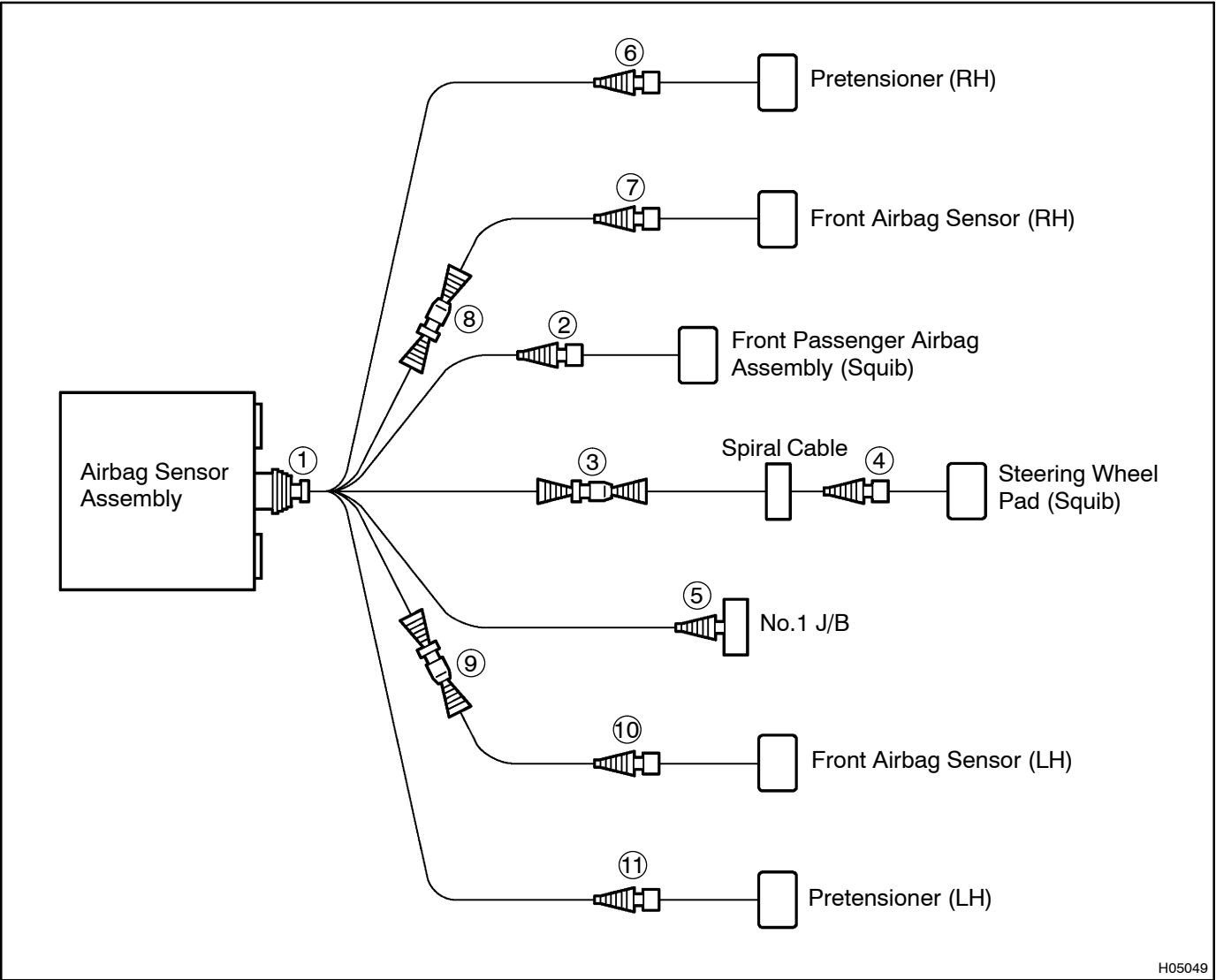
It receives signals from the airbag sensor assembly and judges whether the SRS must be activated or not.



7. FRONT AIRBAG SENSOR

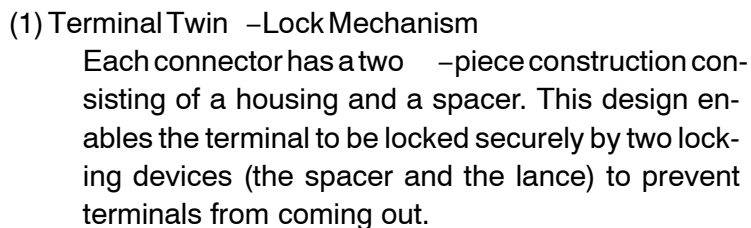
The front airbag sensor is mounted inside each of the side members. The sensor unit is a mechanical type. When the sensor detects deceleration force above a predetermined limit, contact is made in the sensor, sending a signal to the airbag sensor assembly. The sensor cannot be disassembled.

8. SRS CONNECTORS

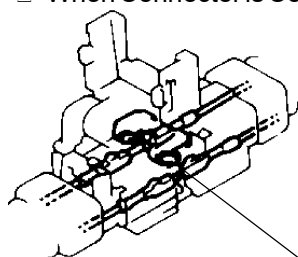


| No. | Item | Application |
|-----|--|--|
| (1) | Terminal Twin –Lock Mechanism | Connectors 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 |
| (2) | Airbag Activation Prevention Mechanism | Connectors 1, 2, 3, 4, 5, 6, 11 |
| (3) | Electrical Connection Check Mechanism | Connectors 1 |
| (4) | Connector Twin –Lock Mechanism | Connectors 3, 5 |

- (a) All connectors in the SRS are colored in yellow to distinguish them from other connectors. Connectors having special functions and specifically designed for SRS are used in the locations shown above to ensure high reliability. These connectors use durable gold –plated terminals.



- When Connector is Connected



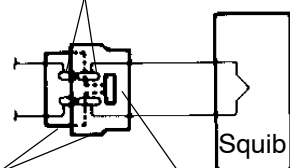
Short Spring Plate

Housing



Housing

Terminal

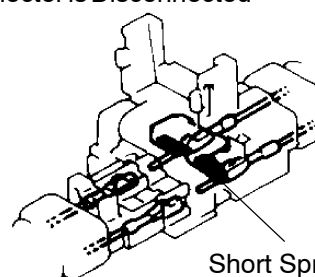


Connectors

Short Spring Plate



□ When Connector is Disconnected

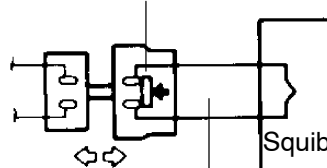


Short Spring Plate

Contacting Male Terminal



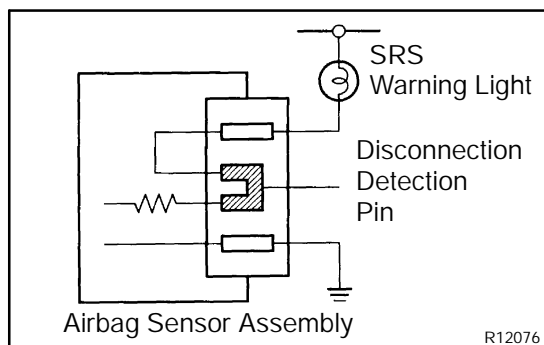
Short Spring Plate ON



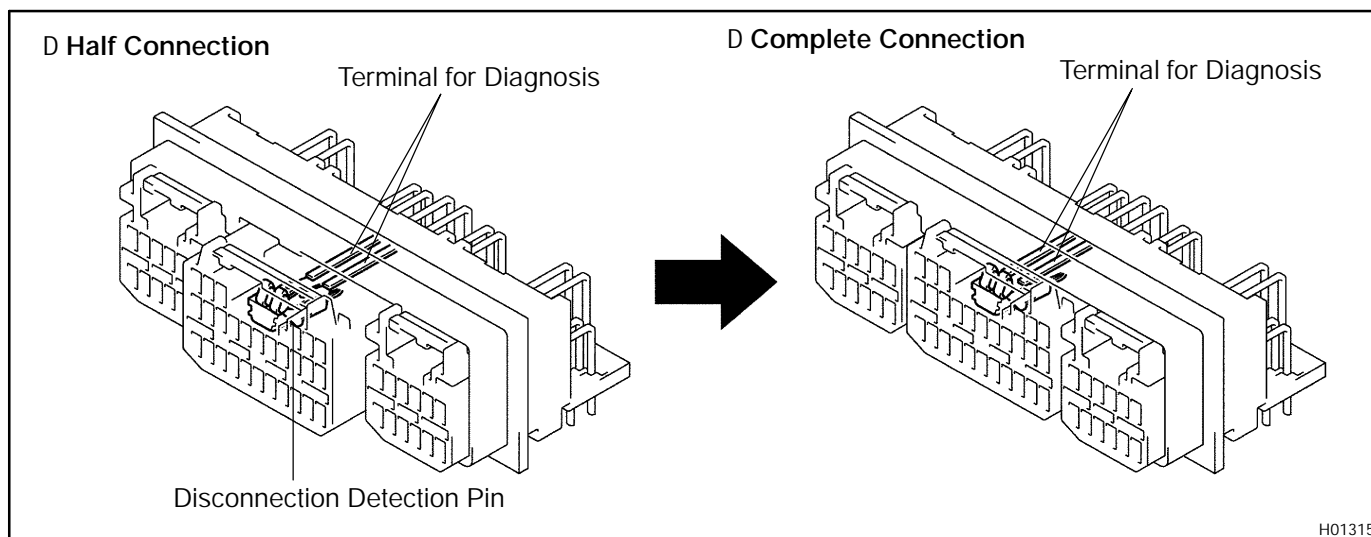
Closed Circuit

R10587

The type of connector shown above is used for the connectors "1", "2", "3", "4", "6" and " 11" in the diagram on the previous page, but the operating principle is the same.

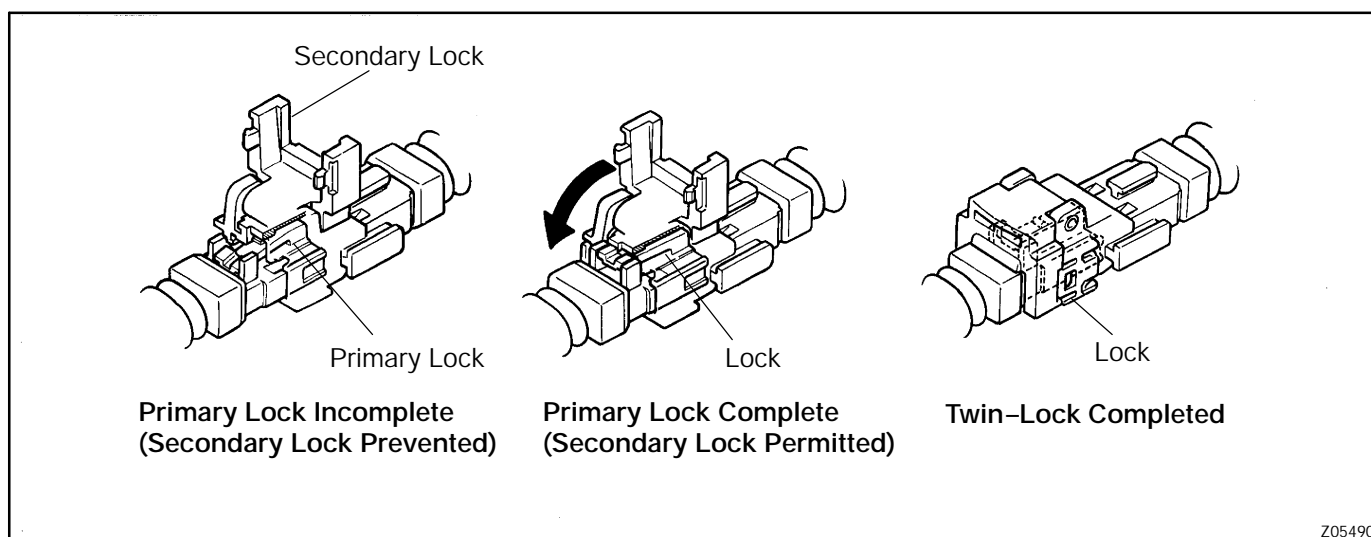


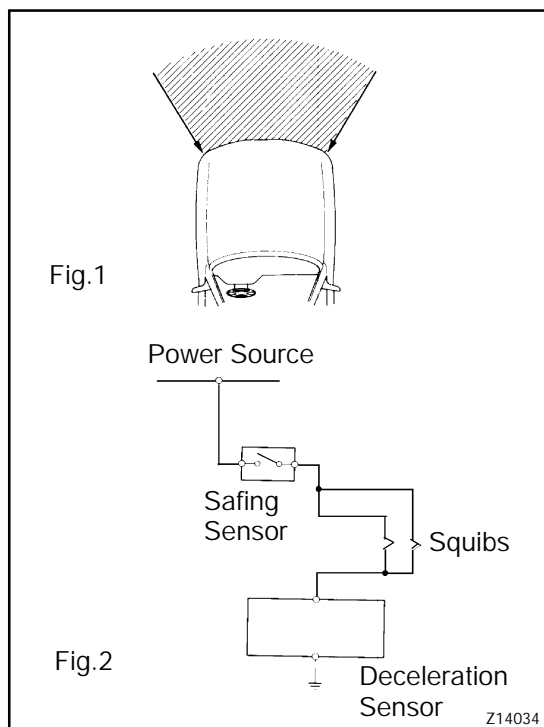
- (3) **Electrical Connection Check Mechanism**
This mechanism is designed to electrically check if connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the connection detection pin connects with the diagnosis terminals when the connector housing lock is in the locked condition.



- (4) **Connector Twin-Lock Mechanism**
With this mechanism connectors (male and female connectors) are locked by two locking devices to increase connection reliability.

If the primary lock is incomplete, ribs interfere and prevent the secondary lock.

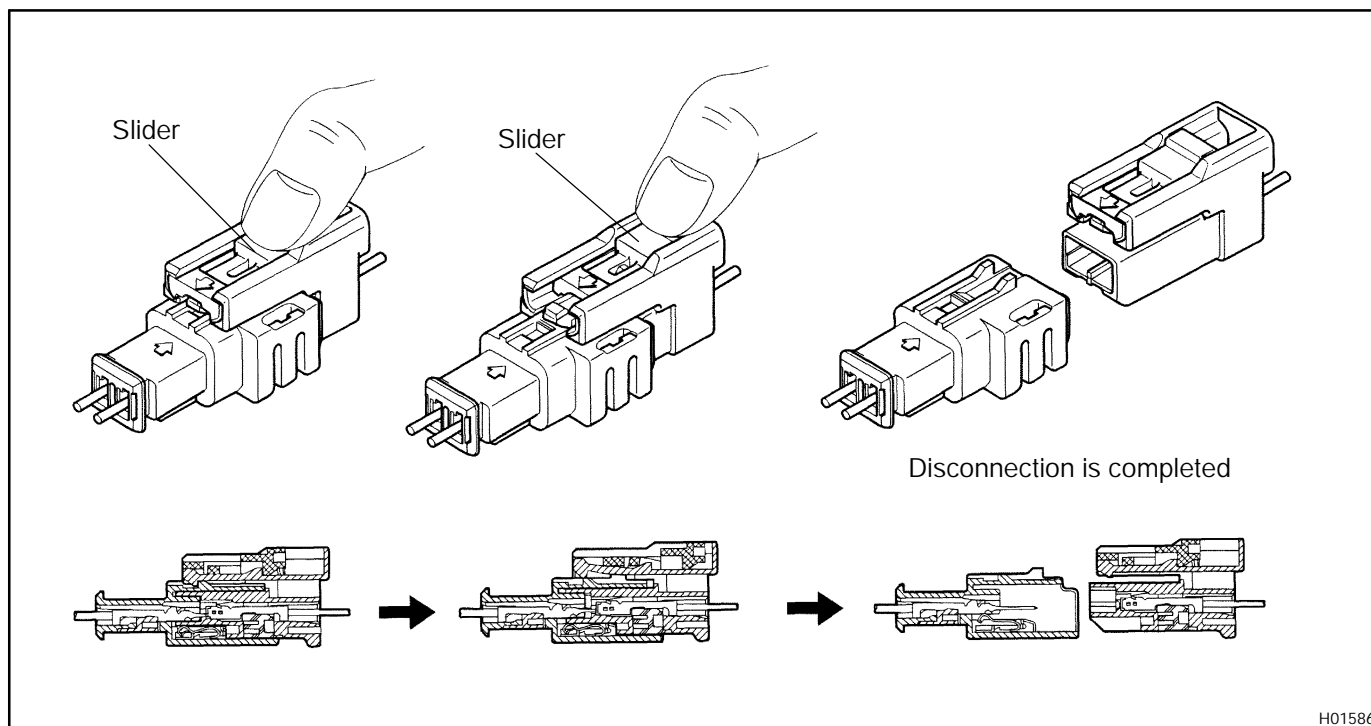




- (b) When the vehicle is involved in a frontal collision in the hatched area (Fig. 1) and the shock is larger than a predetermined level, the SRS is activated automatically. A safing sensor is designed to go on at a smaller deceleration rate than the airbag sensors. As illustrated in Fig. 2, ignition is caused when a safing sensor and the deceleration sensor go on simultaneously. When a deceleration force acts on the sensors, two squibs in the driver airbag and front passenger airbag ignite and generate gas. The gas discharging into the driver and front passenger airbags rapidly increases the pressure inside the bags breaking open the steering wheel pad and instrument panel door. Bag inflation then ends, and the bags deflate as the gas is discharged through discharge holes at the bag's rear or side.

9. DISCONNECTION OF CONNECTORS FOR STEERING WHEEL PAD (with AIRBAG) AND FRONT PASSENGER AIRBAG ASSEMBLY

- Place a finger on the slider.
- Slide the slider to release lock.
- Disconnect the connector.

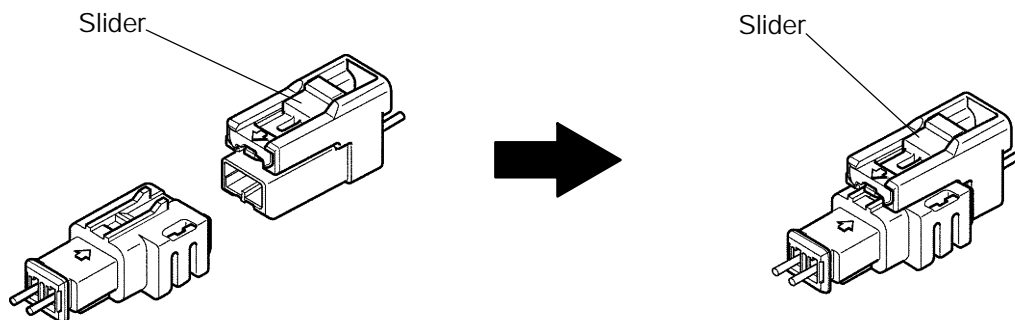


10. CONNECTION OF CONNECTORS FOR STEERING WHEEL PAD (with AIRBAG) AND FRONT PASSENGER AIRBAG ASSEMBLY

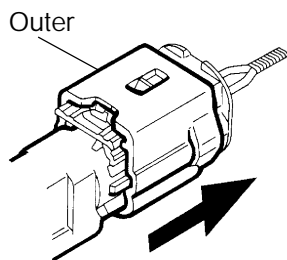
- (a) Align a lock part of male connector and a slider of female connector in the same direction as shown in the illustration, fit in them without rubbing.
- (b) Make sure to insert until they are locked. After fitting in pull them lightly to check that they are locked. (When locked, make sure that the outer returns to its original position and sound at the time of fitting in can be heard.)

HINT:

- S As the slider slides, do not touch it.
- S Be careful not to deform the release board. If the release board is deformed, replace it with a new one.



H01587



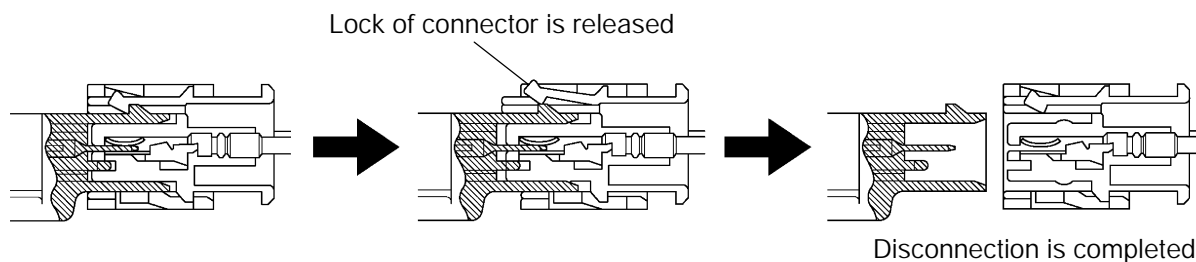
H02763

11. DISCONNECTION OF FRONT AIRBAG SENSOR CONNECTOR

- (a) While holding both flank sides of the outer, slide the outer to the direction shown by an arrow.
- (b) When lock of the connectors is released, disconnect the connectors.

HINT:

Make sure to hold both flank sides of the outer. If holding the top and bottom sides, it will obstruct disconnection.



H02764

12. CONNECTION OF FRONT AIRBAG SENSOR CONNECTOR

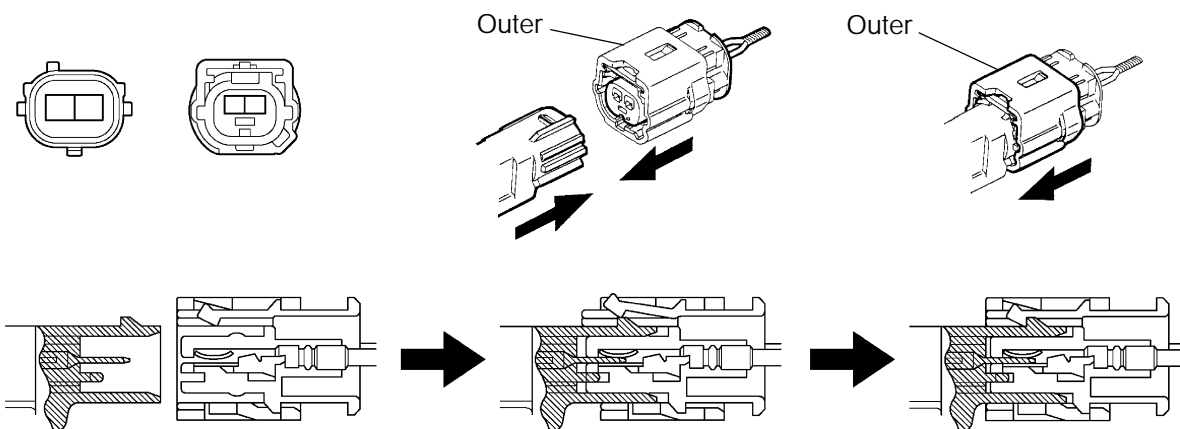
- (a) Align the male connector (on the side of sensor) and female connector in the same direction as shown in the illustration and fit in them without rubbing.
- (b) As they are fitted in, the outer slides rearward. Press it until the outer returns to its original position again.

If fitting stops half way, connectors will separate.

- (c) Make sure to insert until they are locked. After fitting in, pull them slightly to check that they are locked. (When locked, make sure that the outer returns to its original position and sound at the time of fitting in can be heard.)

HINT:

- S Do not fit in while holding the outer.
- S When fitting in, the outer slides. Do not touch it.



H02768