

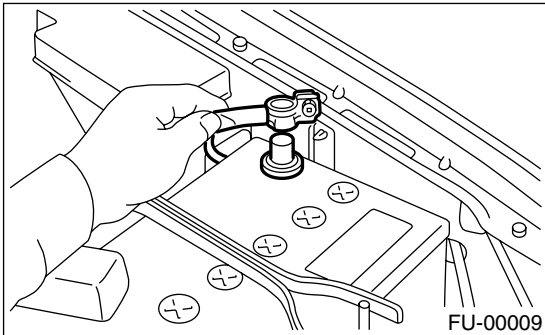
GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

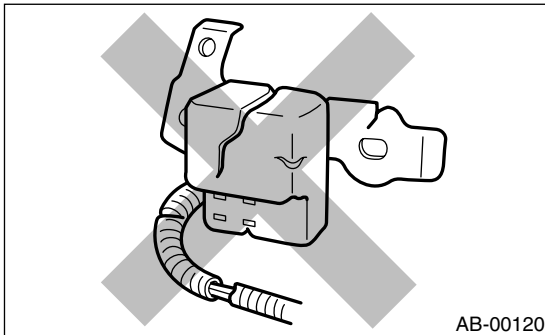
3. General Description

A: CAUTION

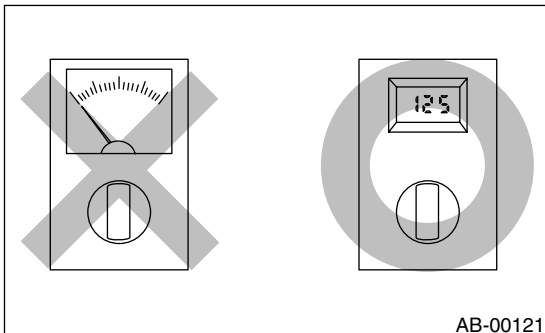
- When servicing a vehicle, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.
- The airbag system is fitted with a backup power source. If the airbag system is serviced within 20 seconds after the ground cable is disconnected, it may inflate.



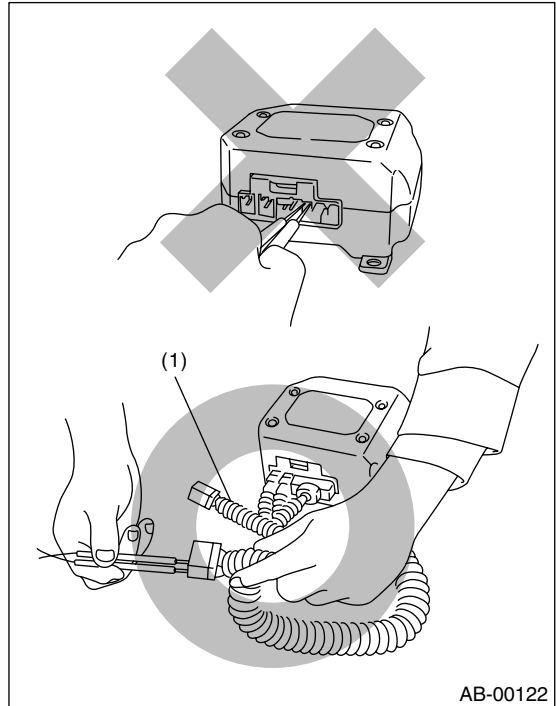
- If sensors, airbag module, airbag control module, pretensioner, and harness are deformed or damaged, replace them with new genuine parts.



- Do not use the airbag system and pretensioners on other vehicles. When replacing parts, be sure to replace them with new parts.
- When checking the airbag system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously.

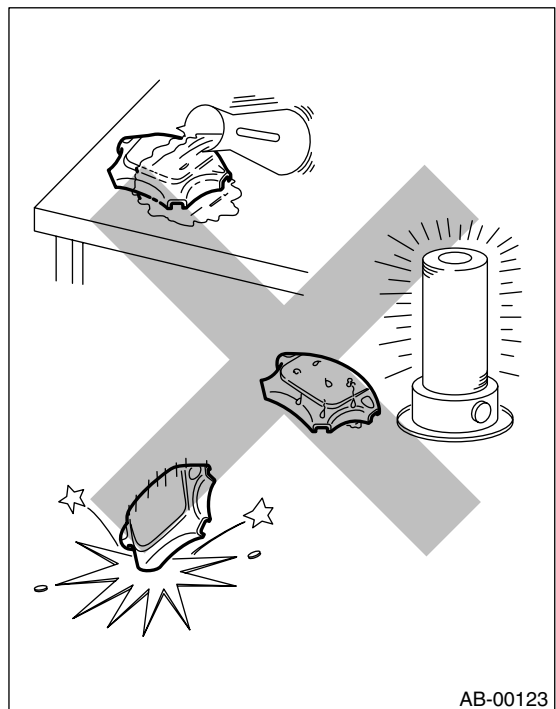


- When checking, use a test harness. Do not directly apply the tester probe to any connector terminal of the airbag.



(1) Test harness

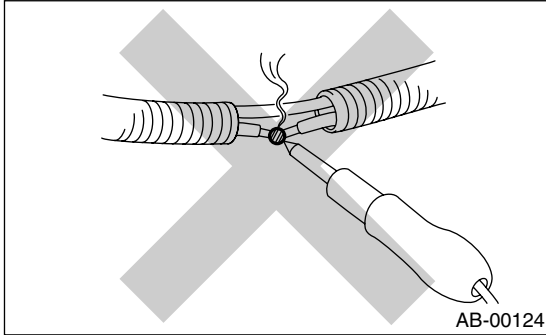
- Do not drop the airbag modulator parts, subject them to high temperature over 93°C (199°F), or let water, oil, or grease get on them; otherwise, the internal parts may be damaged and may be reliability greatly lowered.



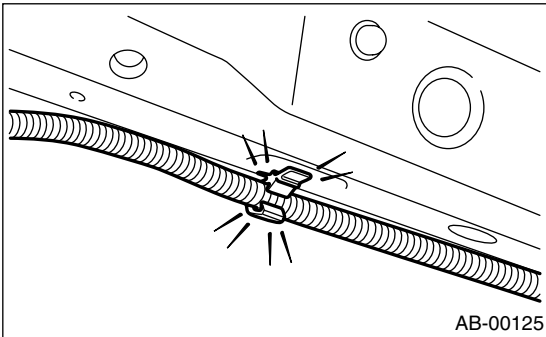
GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

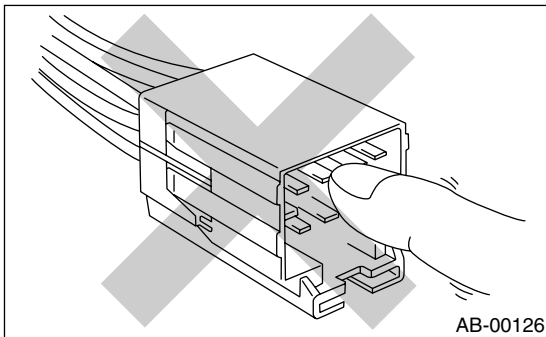
- If any damage, opening, or rust is found on the airbag system wire harness, do not attempt to repair using soldering equipment. Be sure to replace the faulty harness with a new genuine part.



- Install the wire harness securely with the specified clips to avoid interference or tangled up with other parts.

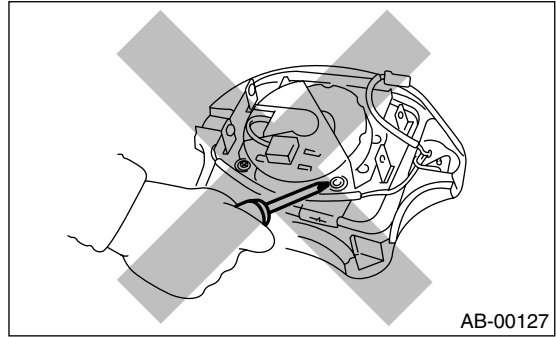


- Do not allow water or oil to come in contact with the connector terminals. Do not touch the connector terminals.

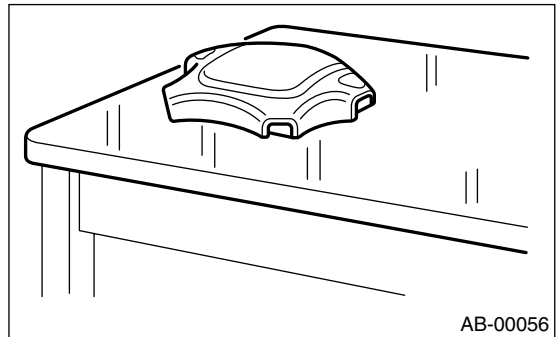


- Either of the airbag modules for driver, passenger or side, or pretensioner must not be disassembled.

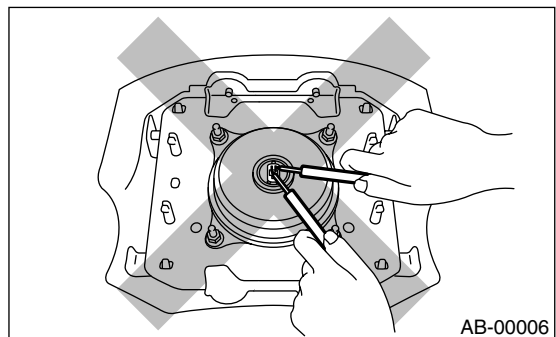
- The airbag module cannot be used again if once inflated.



- After removal, keep the airbag module with the pad facing upward on a dry, clean, and flat surface away from heat and light sources, and moisture and dust.



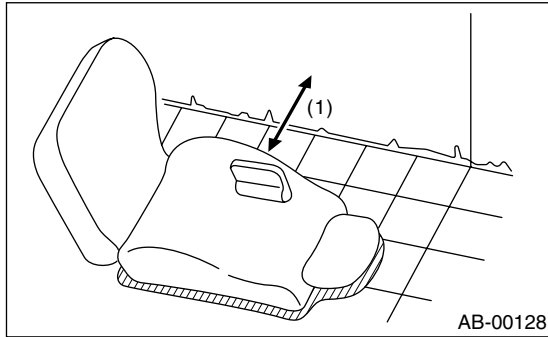
- Do not check continuity of either of the airbag modules for driver, passenger or side, or pretensioner.



GENERAL DESCRIPTION

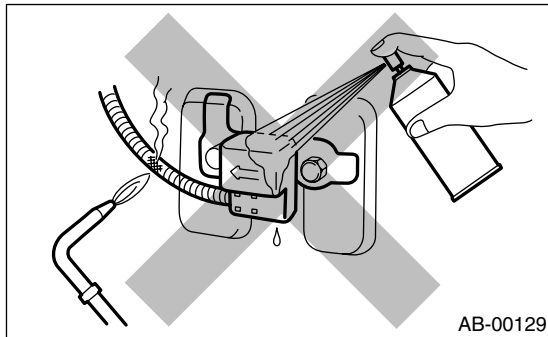
AIRBAG SYSTEM (DIAGNOSTICS)

- The removed front seat with the airbag module must be kept at least 200 mm (8 in) away from walls and other objects.



(1) More than 200 mm (8 in)

- When painting or performing sheet metal work on the front part of the vehicle, including the front wheel apron, front fender, and front side frame, remove the front sub sensors and wire harness of the airbag system.
- When painting or performing sheet metal work on the side of the vehicle, including the side sill, center pillar, and front and rear doors, remove the side airbag sensors and wire harness of the airbag system.



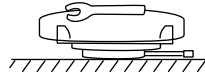
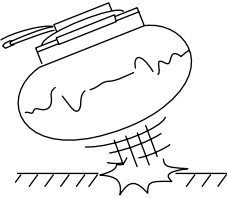
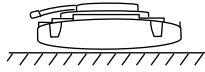
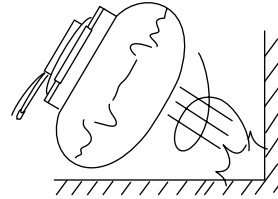
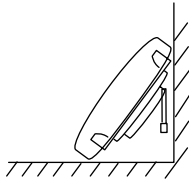
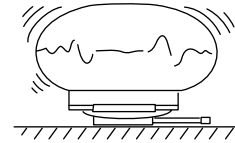
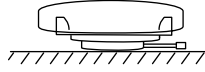
- Do not discard undeployed airbag modules. They could easily cause a serious accident if accidentally deployed.

GENERAL DESCRIPTION

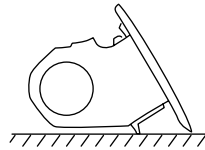
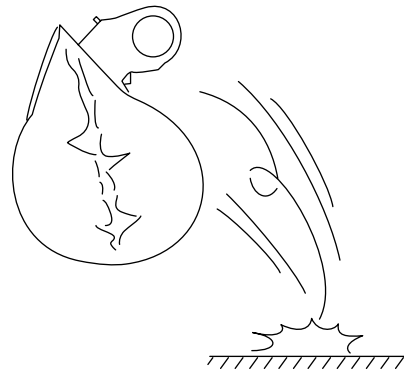
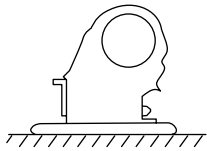
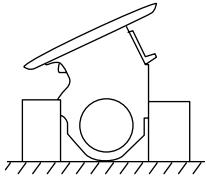
AIRBAG SYSTEM (DIAGNOSTICS)

- When storing a removed airbag module, do not place any objects on it or pile airbag modules on top of each other. If the airbag inflates for some reason when it is placed with its pad side facing downward or under any object, a serious accident may result.

(1)



(2)



AB-00130

(1) Driver side airbag module

(2) Passenger side airbag module

GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

B: INSPECTION

Before diagnosing, check the following items that might be related to the engine problem:

1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

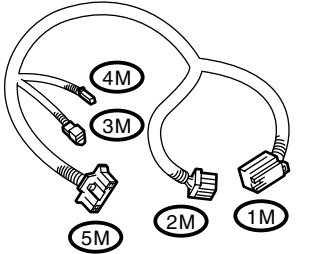
Standard voltage: 12 V

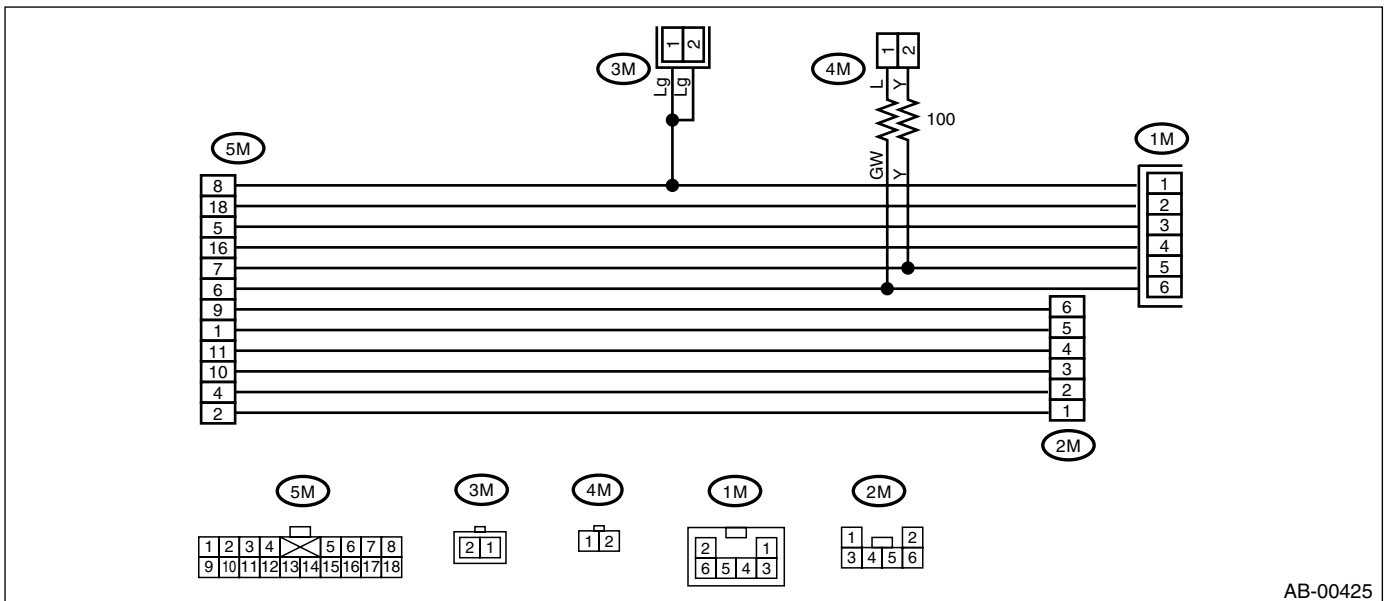
Specific gravity: Above 1.260

C: PREPARATION TOOL

1. SPECIAL TOOLS

• TEST HARNESS M

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299FE020</p>	98299FE020	TEST HARNESS M	<ul style="list-style-type: none"> Used when measuring voltage, resistance of airbag system. Used with test harness T (98299SA060).

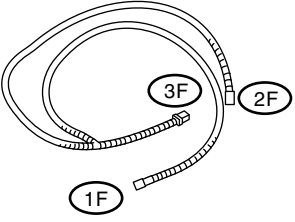


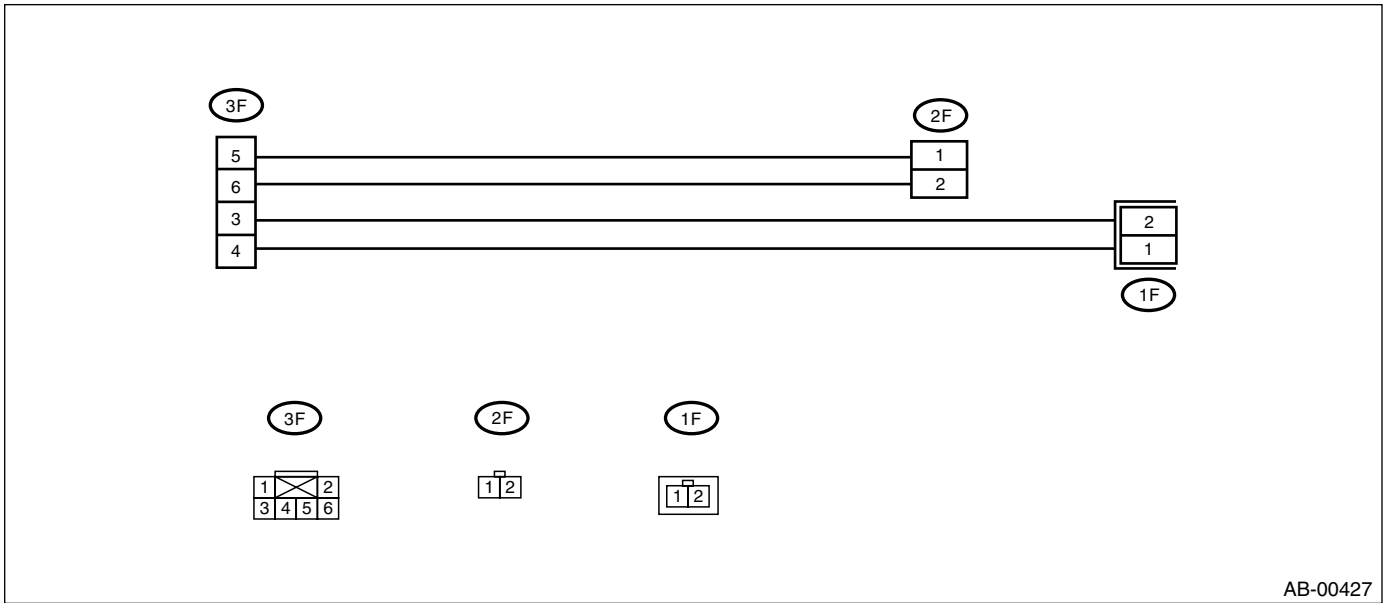
AB-00425

GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS F

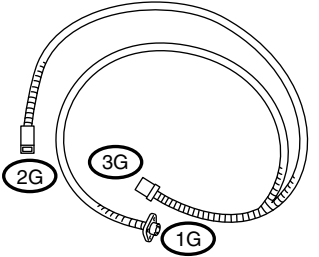
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="326 590 467 615">ST98299FC010</p>	98299FC010	TEST HARNESS F	Used when measuring voltage, resistance of air-bag module harness.

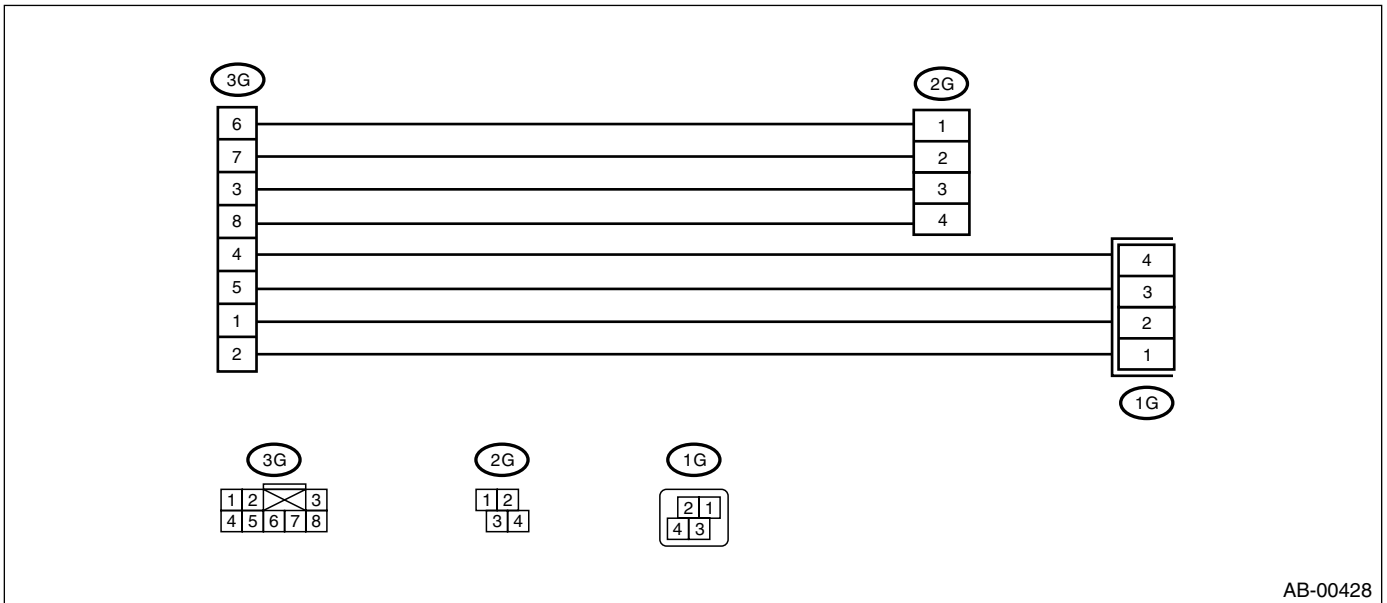


GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS G

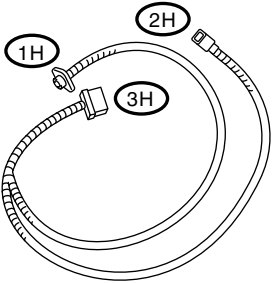
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST98299FC020</p>	98299FC020	TEST HARNESS G	Used when measuring voltage, resistance of side airbag sensor.

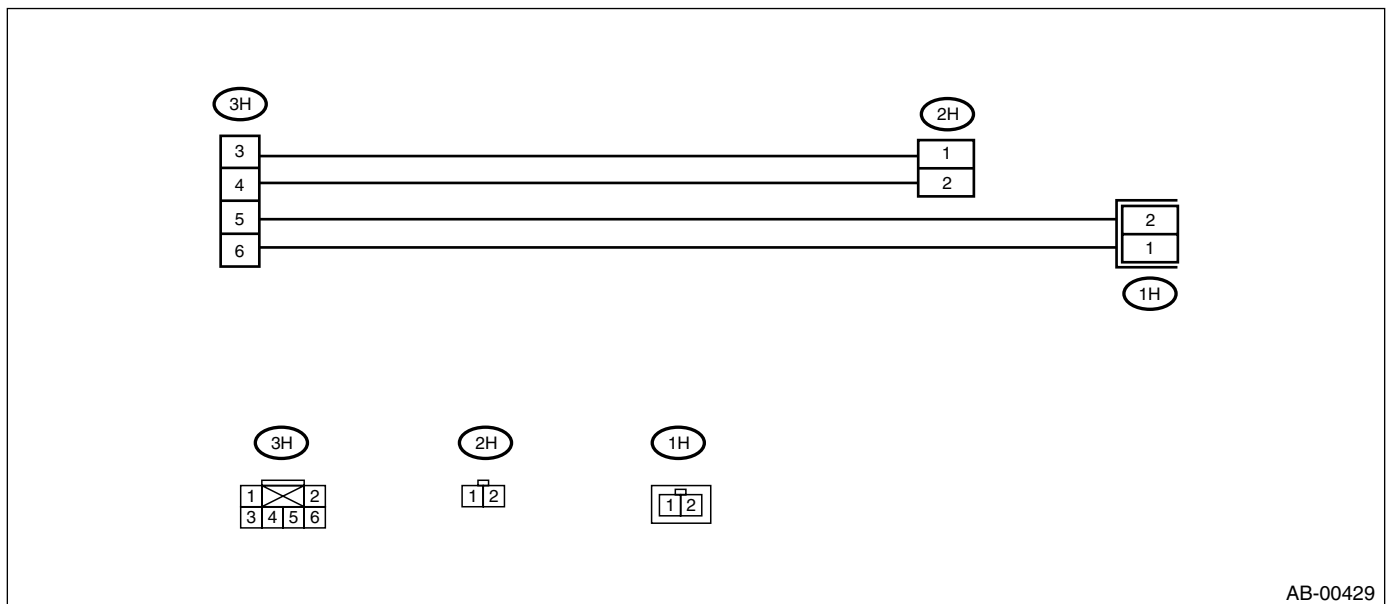


GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS H

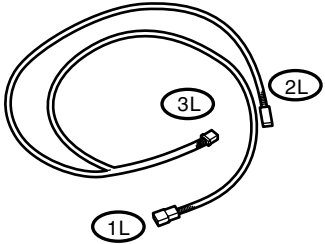
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299FA030</p>	98299FA030	TEST HARNESS H	Used when measuring voltage, resistance of front sub-sensor.

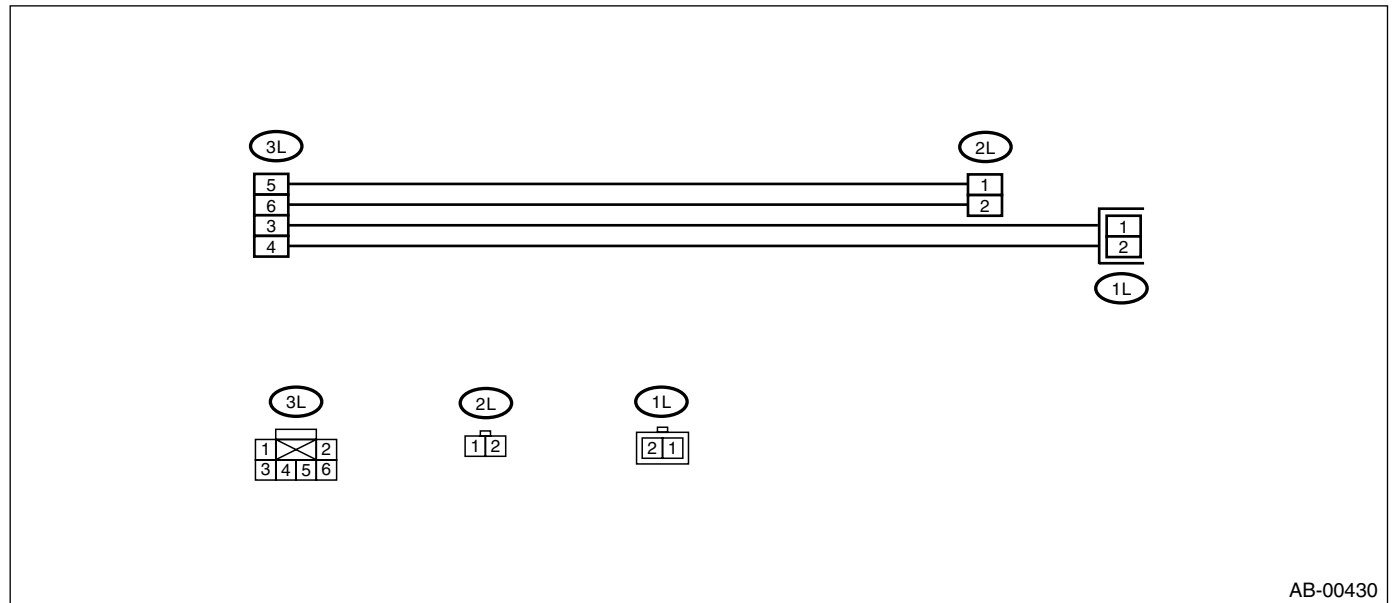


GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS L

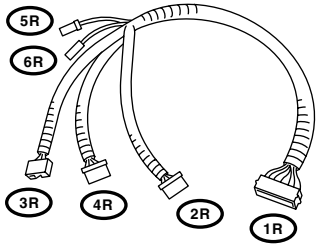
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="326 590 464 611">ST98299FE000</p>	98299FE000	TEST HARNESS L	Used when measuring voltage, resistance of seat belt pretensioner.

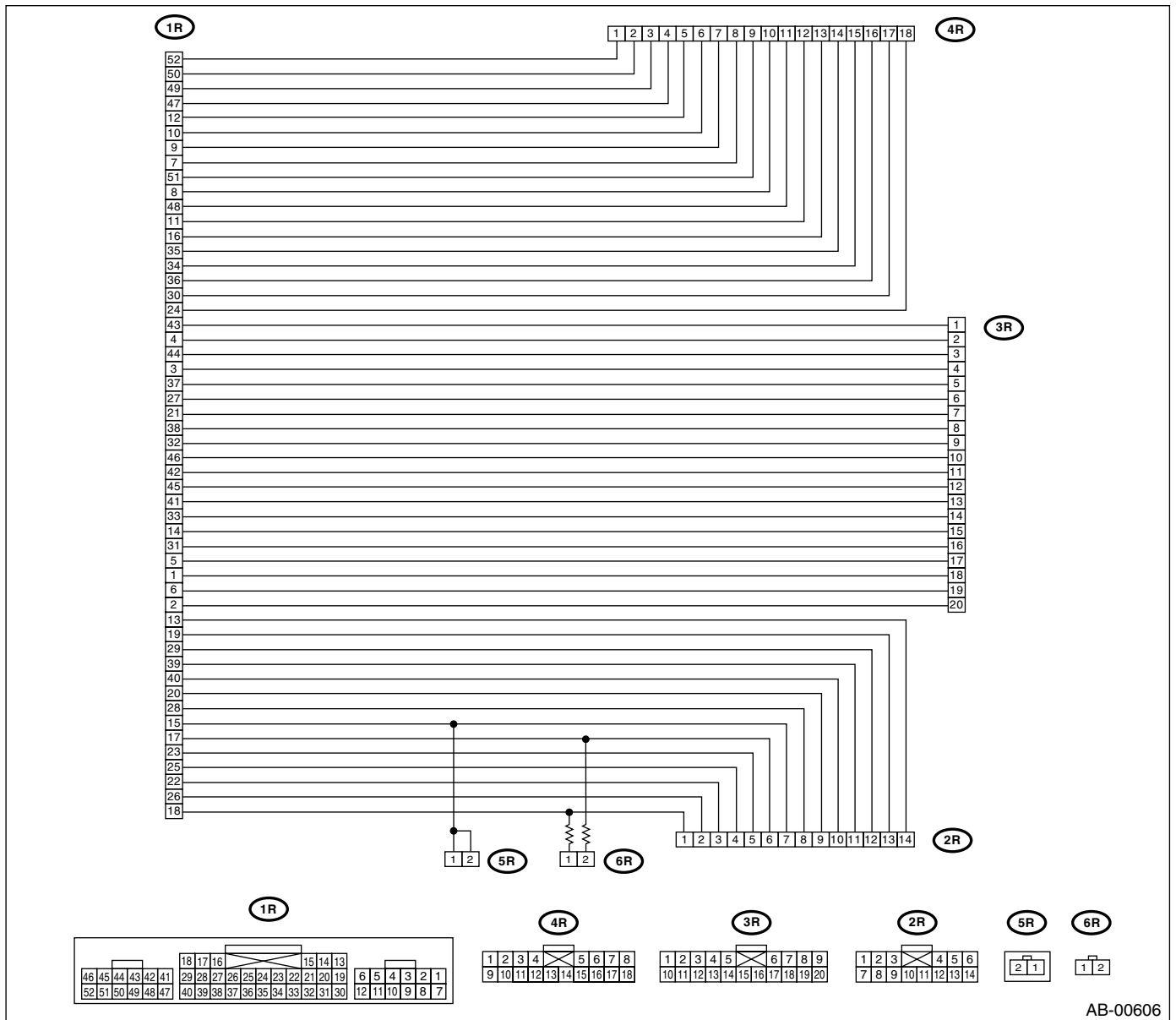


GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS R

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299FE030</p>	98299FE030	TEST HARNESS R	Used when measuring voltage, resistance of air-bag control module.

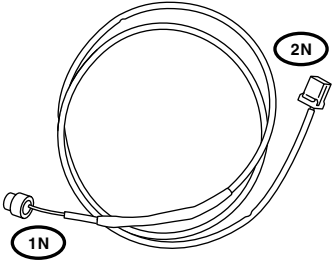


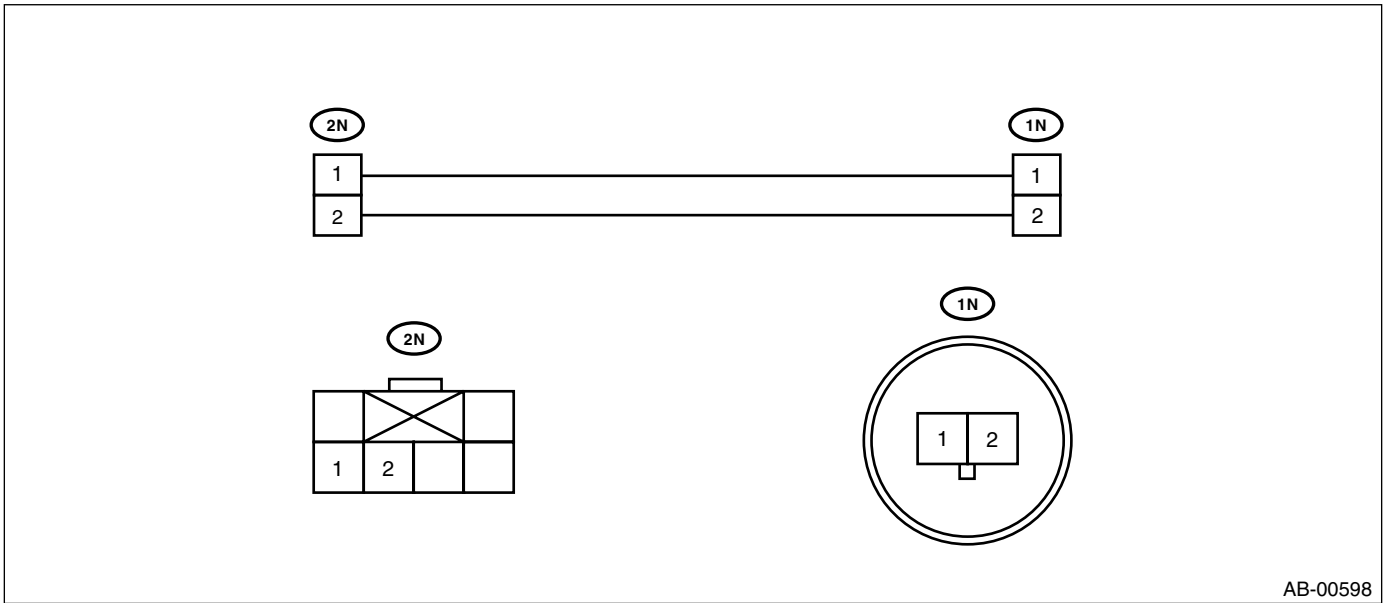
AB-00606

GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS N

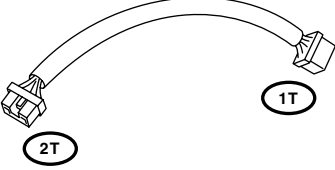
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST98299SA000</p>	98299SA000	TEST HARNESS N	Used when measuring voltage, resistance of driver's airbag module and seat belt pretensioner.

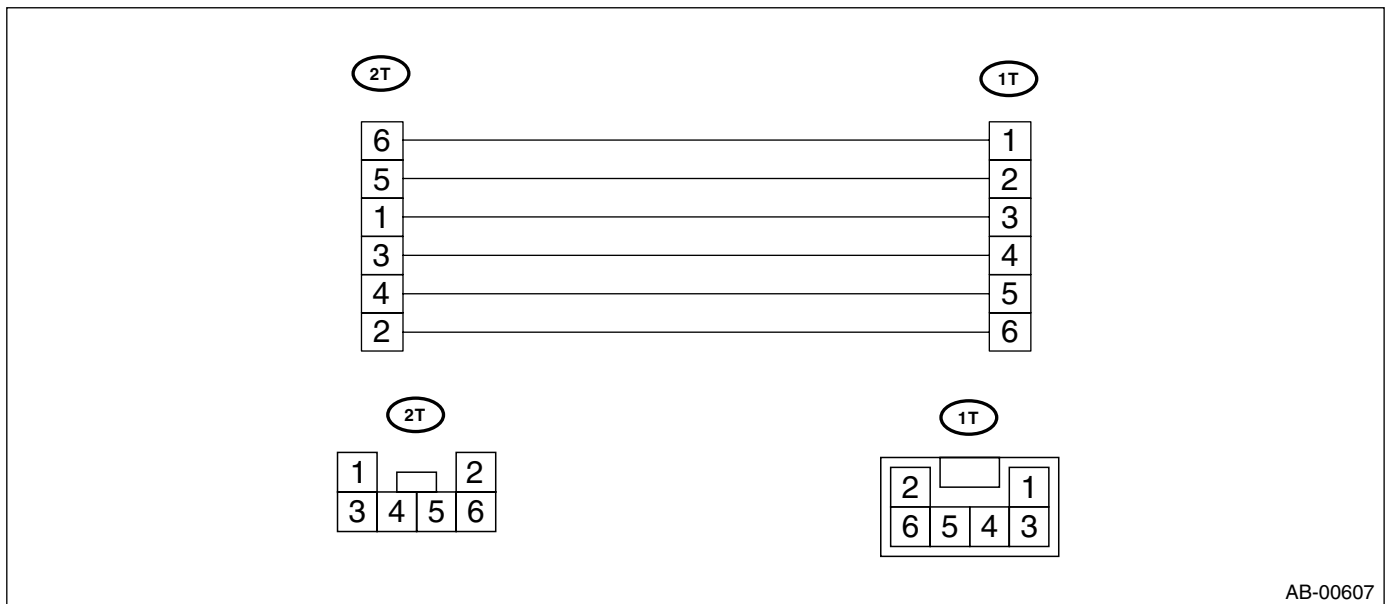


GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS T

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299SA060</p>	98299SA060	TEST HARNESS T	<ul style="list-style-type: none"> • Used when measuring voltage, resistance of airbag system. • Used with test harness M (98299FE020).

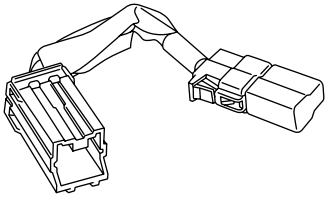


AB-00607

GENERAL DESCRIPTION

AIRBAG SYSTEM (DIAGNOSTICS)

• AIRBAG RESISTOR

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST98299PA040</p>	98299PA040	AIRBAG RESISTOR	Used in replacement of airbag module which resistance value is same as airbag module.

