

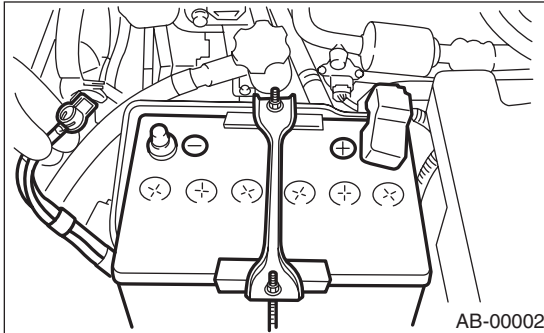
## General Description

### AIRBAG SYSTEM (DIAGNOSTICS)

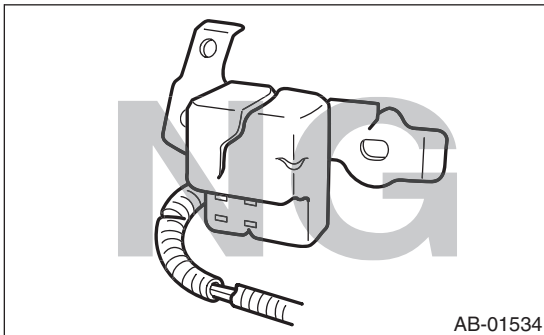
## 3. General Description

### A: CAUTION

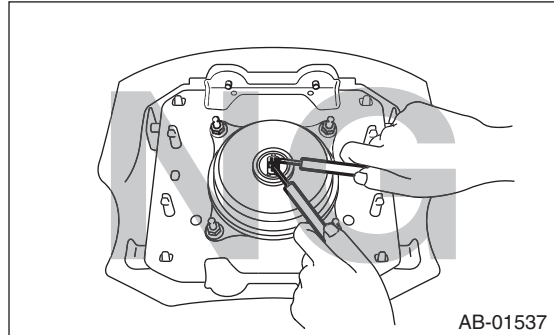
- When servicing a vehicle, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.
- The airbag system is fitted with a backup power source. After disconnecting the battery ground cable, the airbag may deploy if you do not wait for more than 20 seconds before starting the service of airbag system.



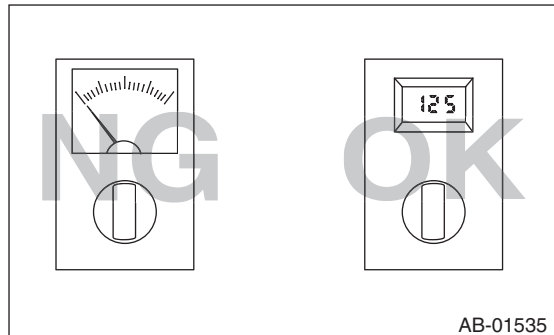
- If the airbag warning light illuminates, repair the vehicle immediately. Otherwise, the airbag or pretensioner may activate incorrectly, or not inflate in an actual collision.
- If sensors, airbag module, airbag control module, pretensioner or harness is deformed or damaged, replace with new part.
- Do not use the airbag system and pretensioners on other vehicles. When replacing parts, be sure to replace them with new parts.



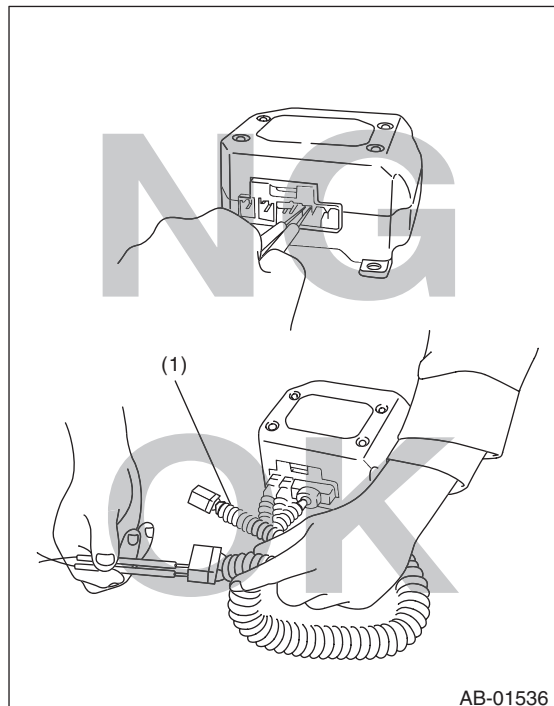
- Do not check continuity of the airbag modules on the driver's side, passenger's side, side airbag modules, or the pretensioner.



- 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 due to a minimal current inside tester.



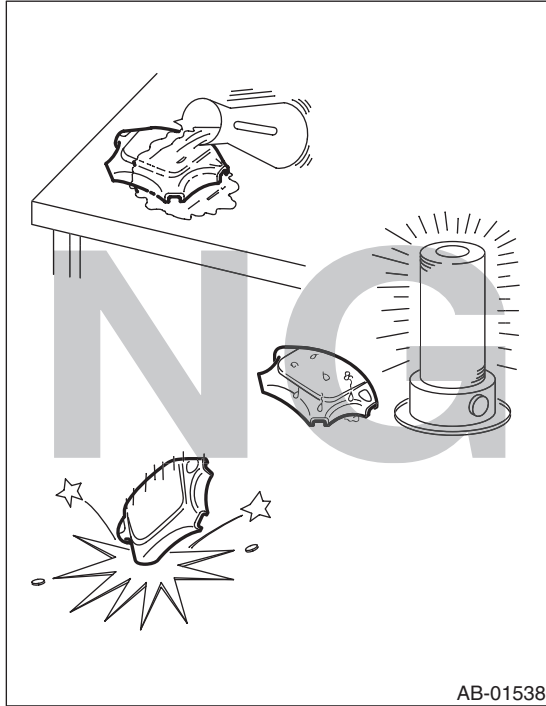
- When checking, use a test harness (1). Do not touch the tester probe directly to the airbag connector terminal.



## General Description

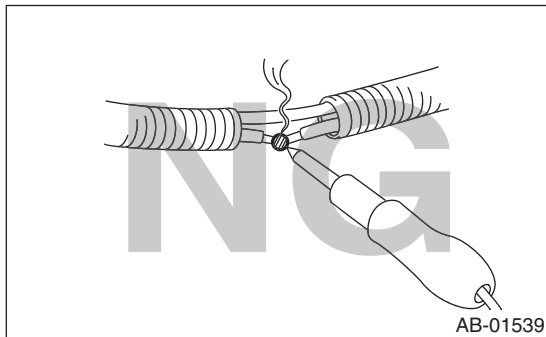
### AIRBAG SYSTEM (DIAGNOSTICS)

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



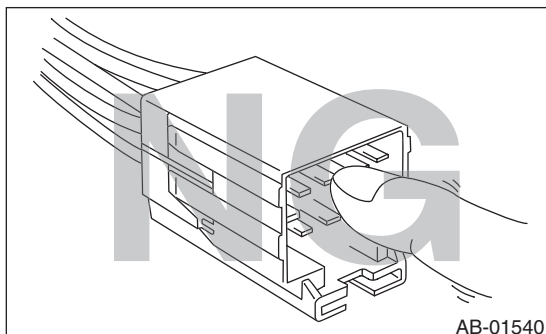
AB-01538

- If damage, open circuit or rust is found on airbag system wiring harness, do not use solder to repair. Replace the faulty harness with a new genuine part.



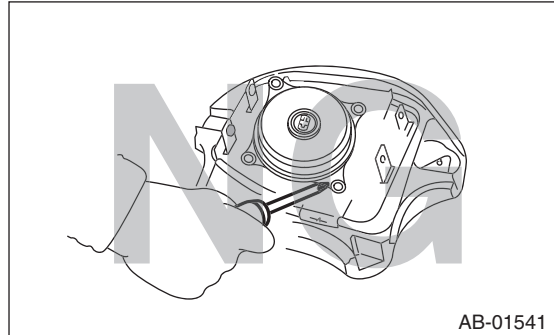
AB-01539

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



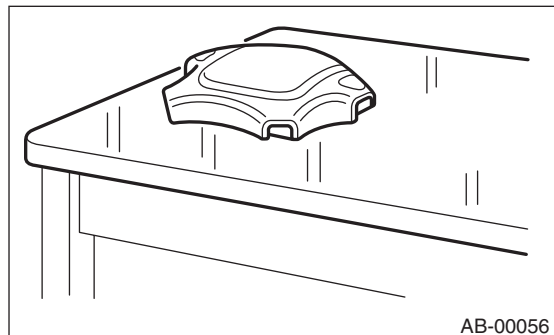
AB-01540

- Do not disassemble the airbag modules on the driver's side, passenger's side, or for the side airbag system.



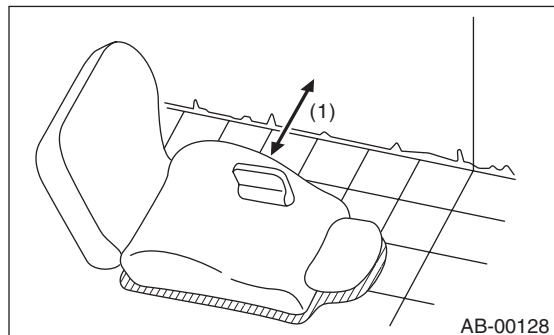
AB-01541

- A deployed airbag module cannot be reused.
- 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.



AB-00056

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



AB-00128

(1) 200 mm (8 in) or more

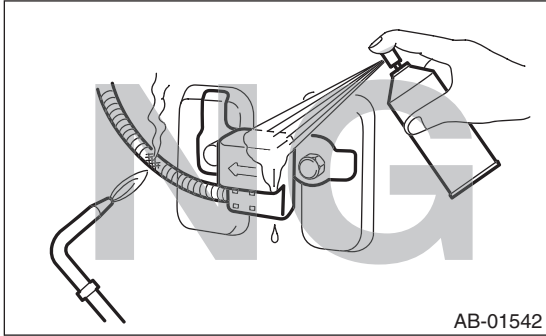
- When painting or performing sheet metal work on the front part of the vehicle, including the front wheel apron, front fender and front side frame, remove the front sub sensors and wiring harness of airbag system.

## General Description

### AIRBAG SYSTEM (DIAGNOSTICS)

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- 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 wiring harness of the airbag system.

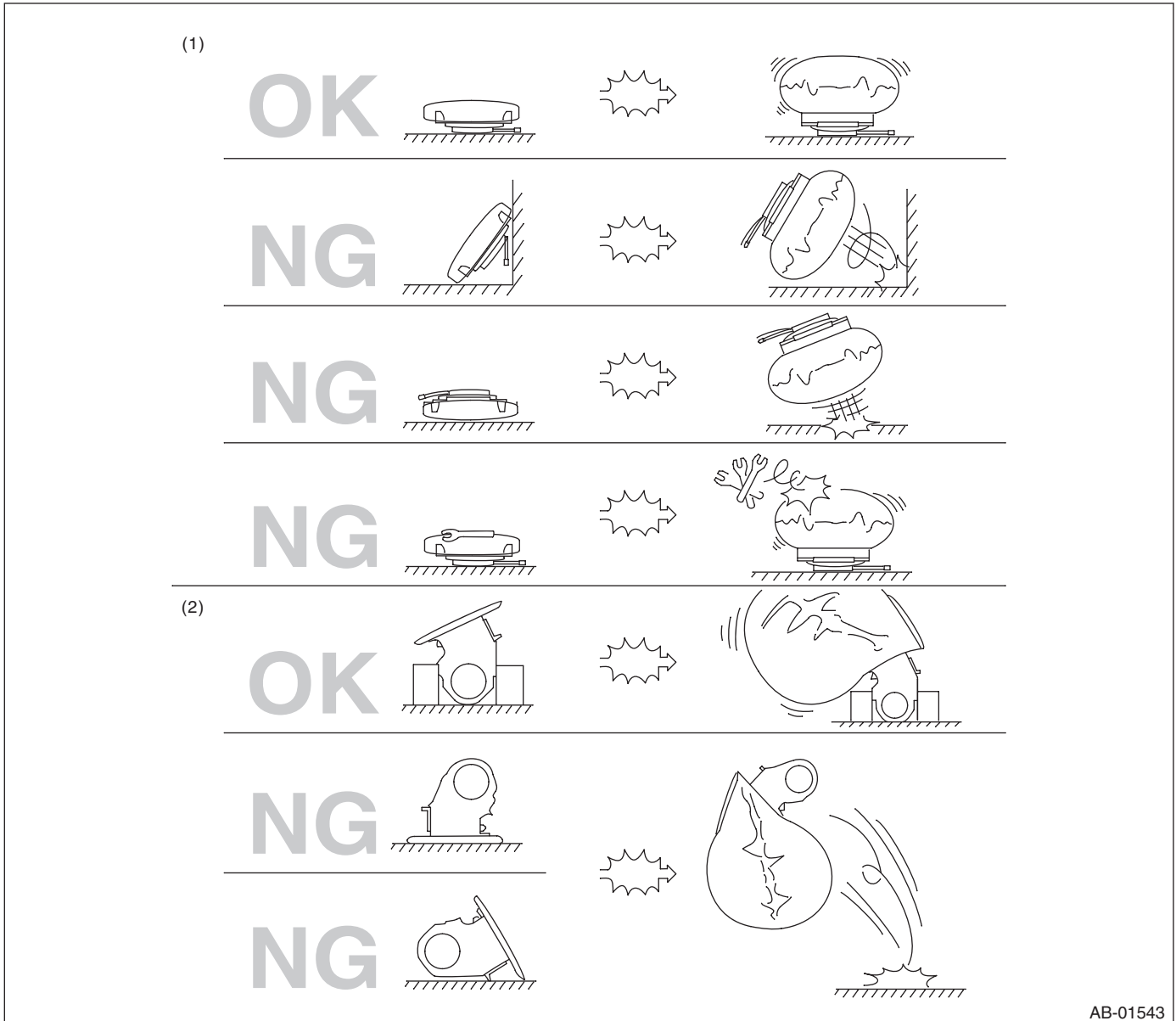


- Do not discard an undeployed airbag module. They could easily cause a serious accident if accidentally deployed.

## General Description

### AIRBAG SYSTEM (DIAGNOSTICS)

- When storing a removed airbag module, do not place any objects on it or stack other 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.



AB-01543

(1) Driver's airbag module

(2) Passenger's airbag module

## B: INSPECTION

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

### 1. BATTERY

Measure the battery voltage and check electrolyte.

**Standard voltage:**

**12 V**

**Specific gravity:**

**1.260 or more**

## General Description

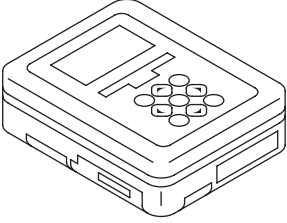
### AIRBAG SYSTEM (DIAGNOSTICS)

## C: PREPARATION TOOL

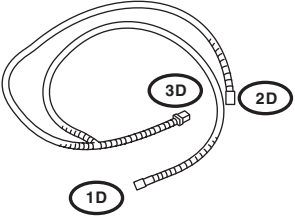
### CAUTION:

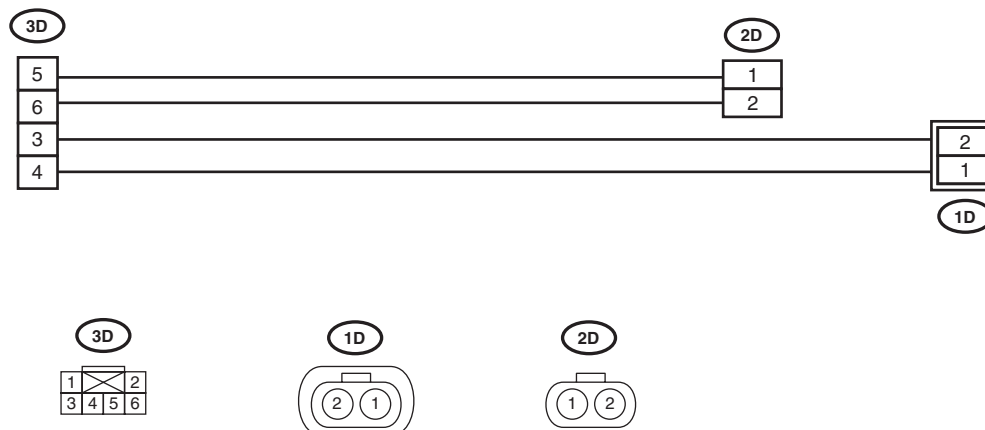
To measure the voltage and resistance of airbag system component, be sure to use the specified test harness.

### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B021XU0	1B021XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

### • TEST HARNESS D

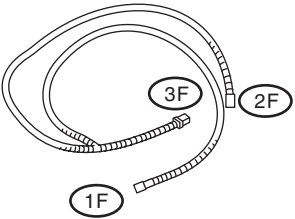
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299AG060	98299AG060	TEST HARNESS D	Used when measuring voltage and resistance of front seat belt buckle switch.

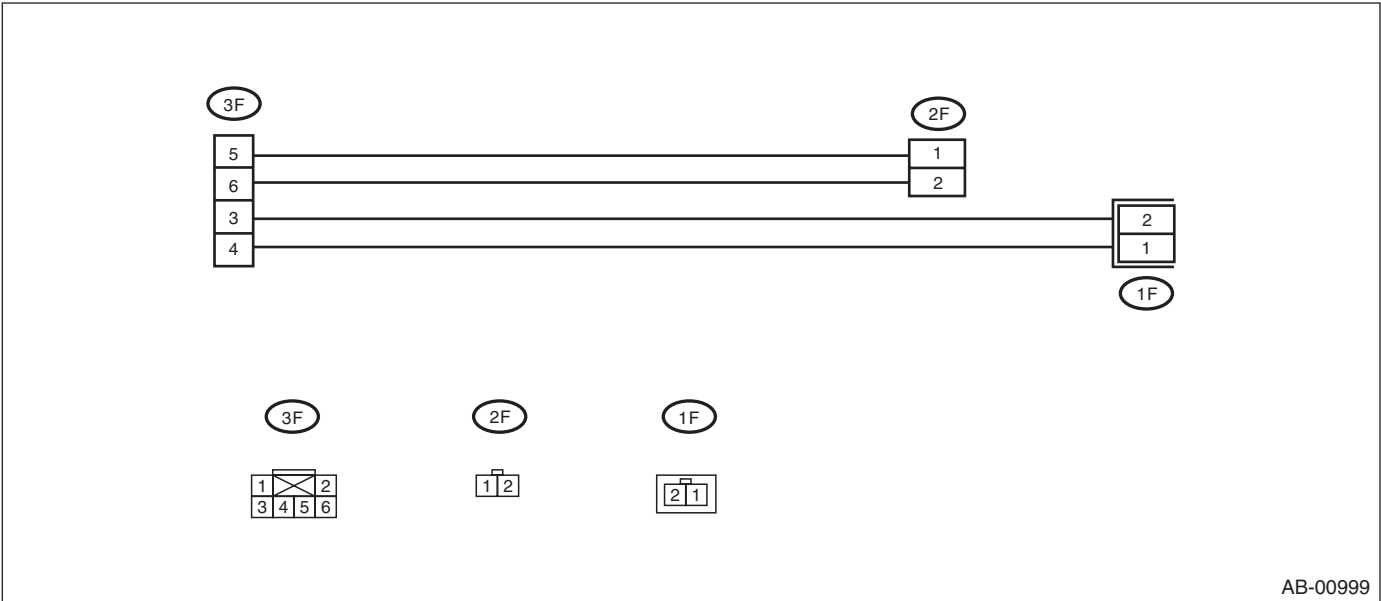


AB-01068

General Description

• TEST HARNESS F

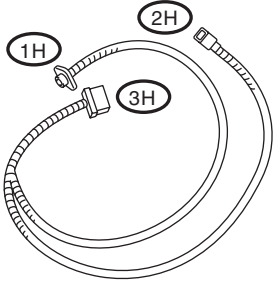
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299FC010</p>	98299FC010	TEST HARNESS F	Used when measuring voltage and resistance of airbag module harness.

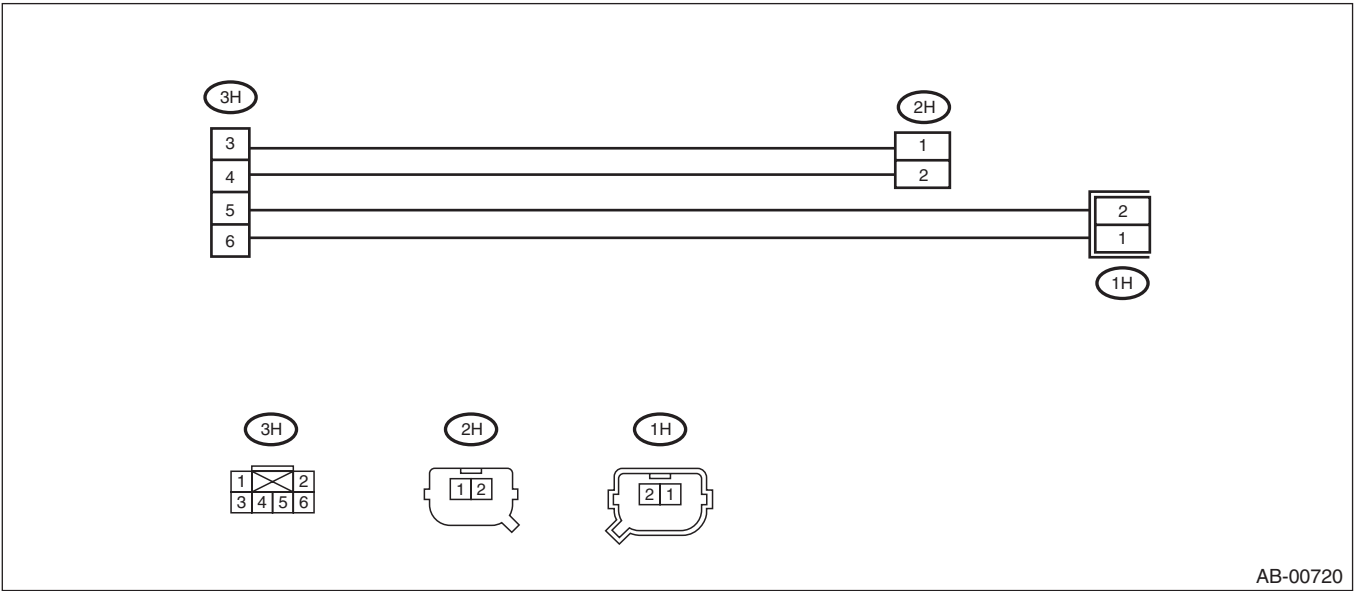


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

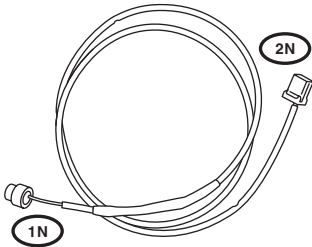
- TEST HARNESS H

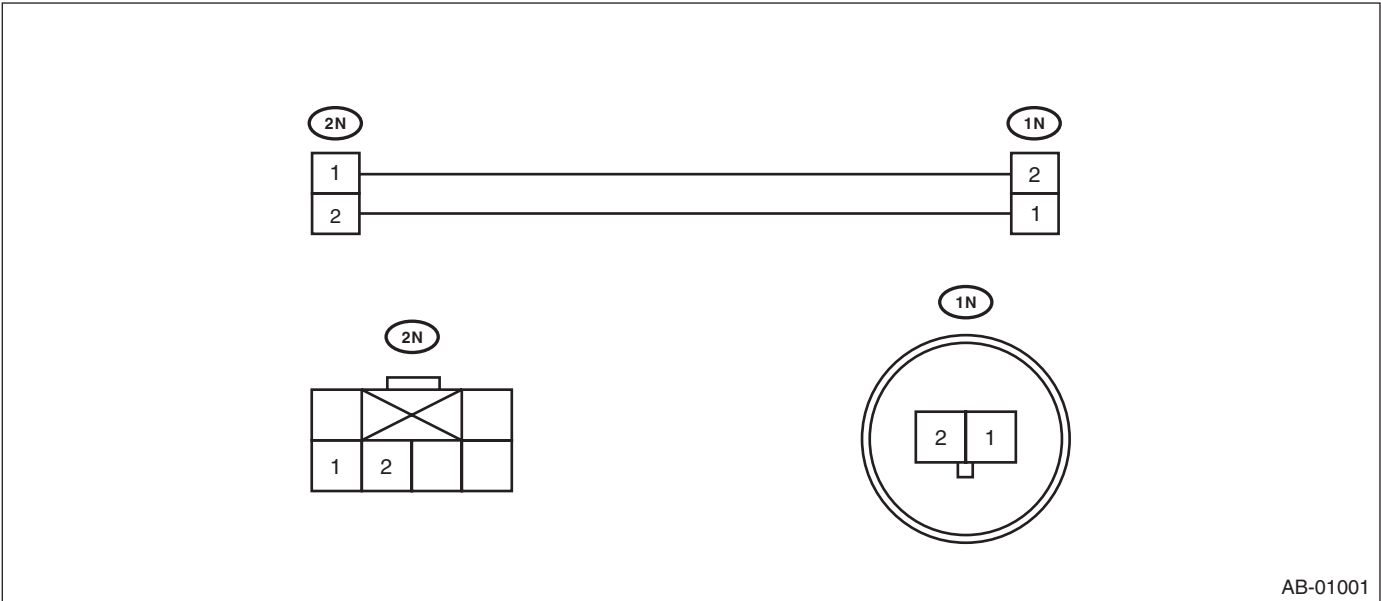
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299FA030	98299FA030	TEST HARNESS H	Used when measuring voltage and resistance of front sub sensor.



General Description

• TEST HARNESS N

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299SA000	98299SA000	TEST HARNESS N	Used when measuring voltage and resistance of driver's airbag module and seat belt pretensioner.

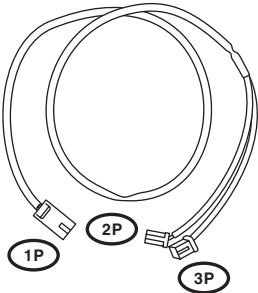


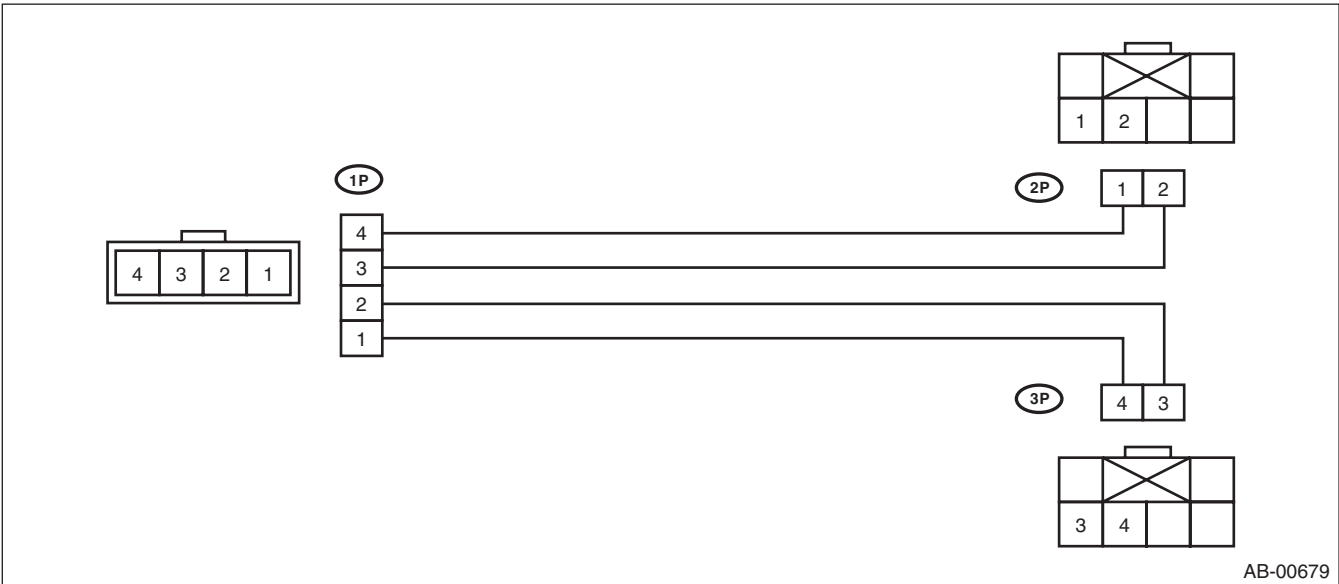
AB-01001

# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

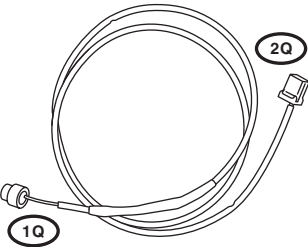
• TEST HARNESS P

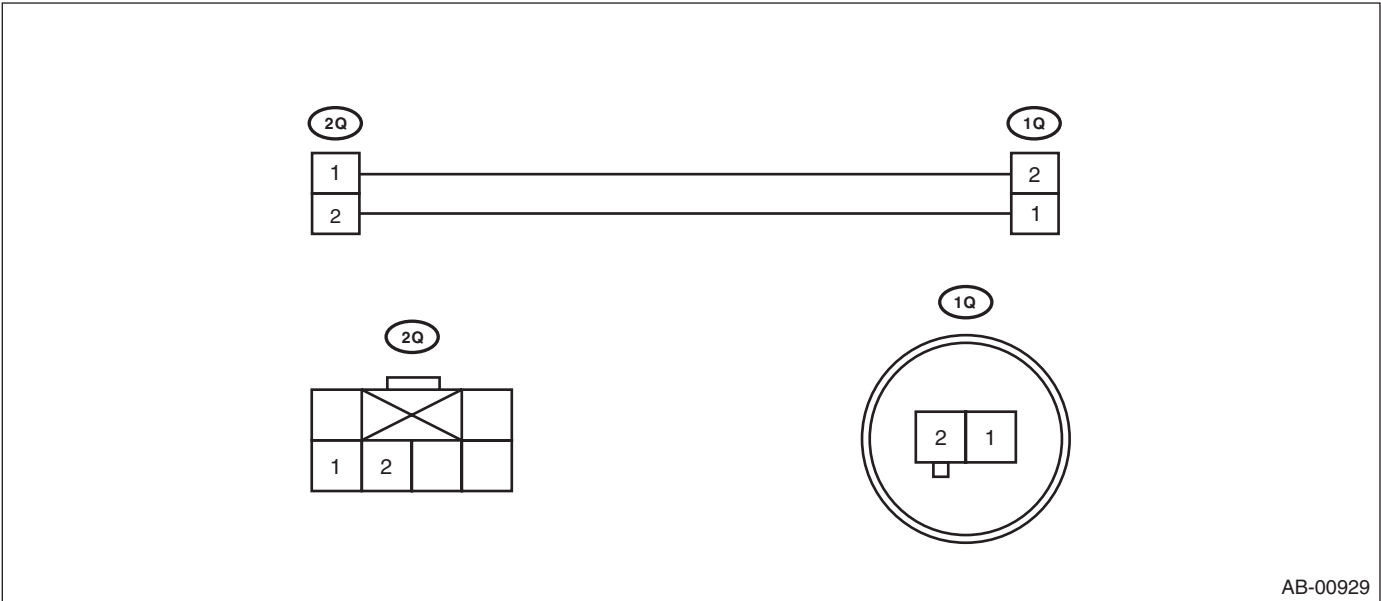
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299SA020	98299SA020	TEST HARNESS P	Used when measuring voltage and resistance of driver's airbag module harness and passenger's airbag module harness.



General Description

• TEST HARNESS Q

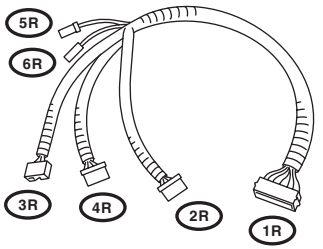
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299SA040	98299SA040	TEST HARNESS Q	Used when measuring voltage and resistance of driver's airbag module.

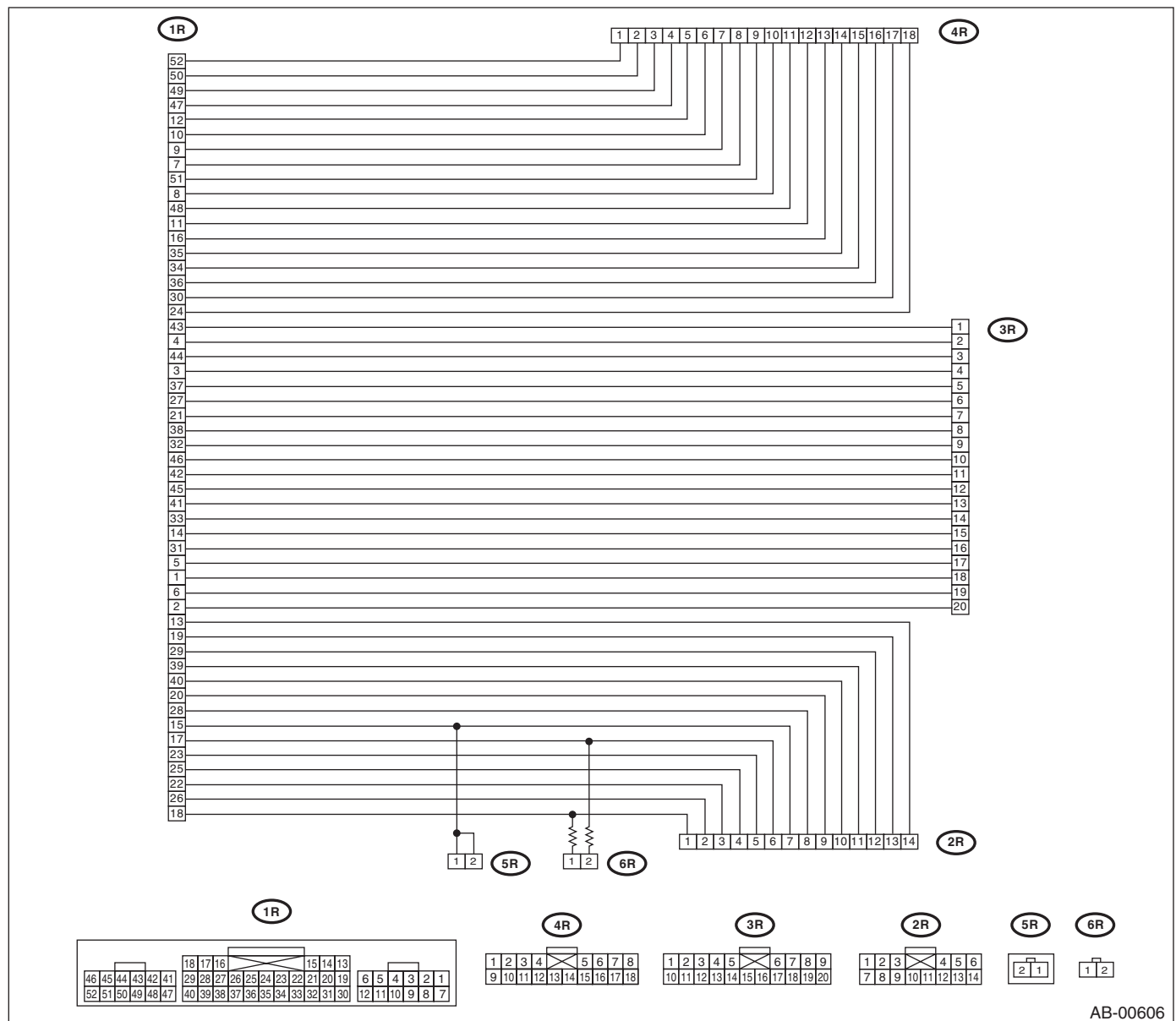


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

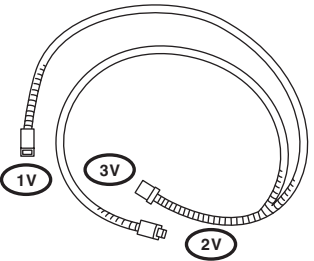
### • TEST HARNESS R

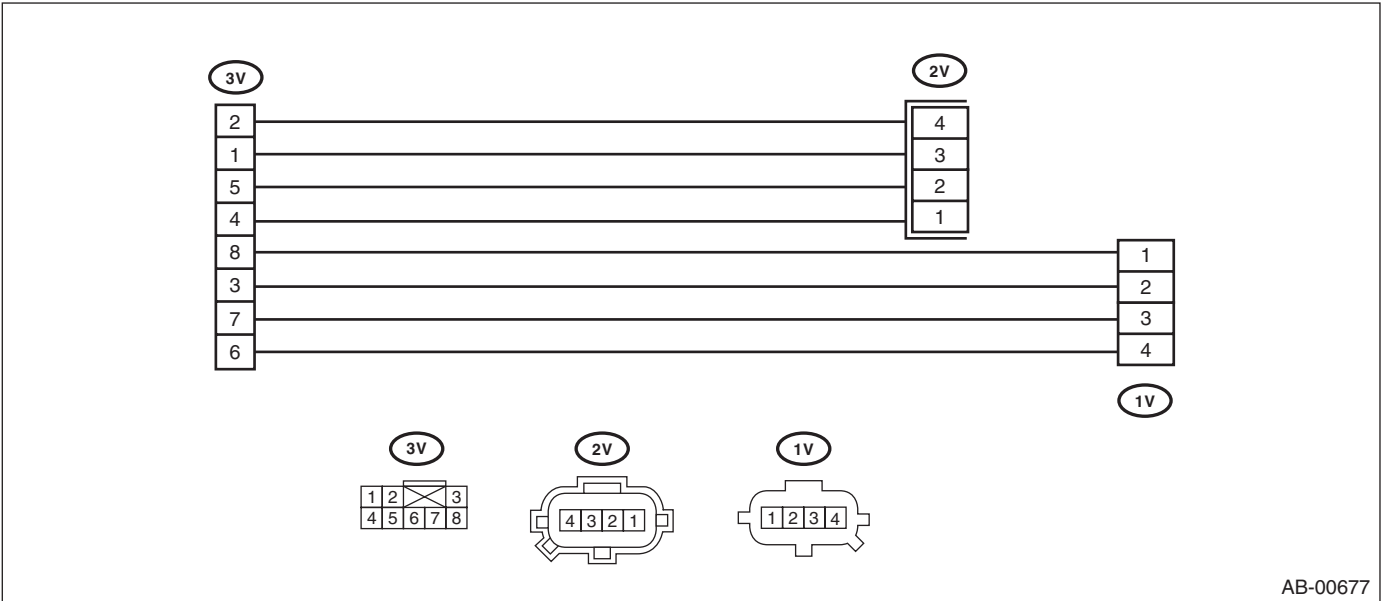
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299FE030</p>	98299FE030	TEST HARNESS R	Used when measuring voltage and resistance of airbag control module.



# General Description

• TEST HARNESS V

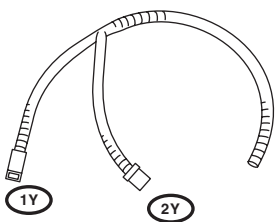
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299AG010</p>	98299AG010	TEST HARNESS V	Used when measuring voltage and resistance of side airbag sensor.

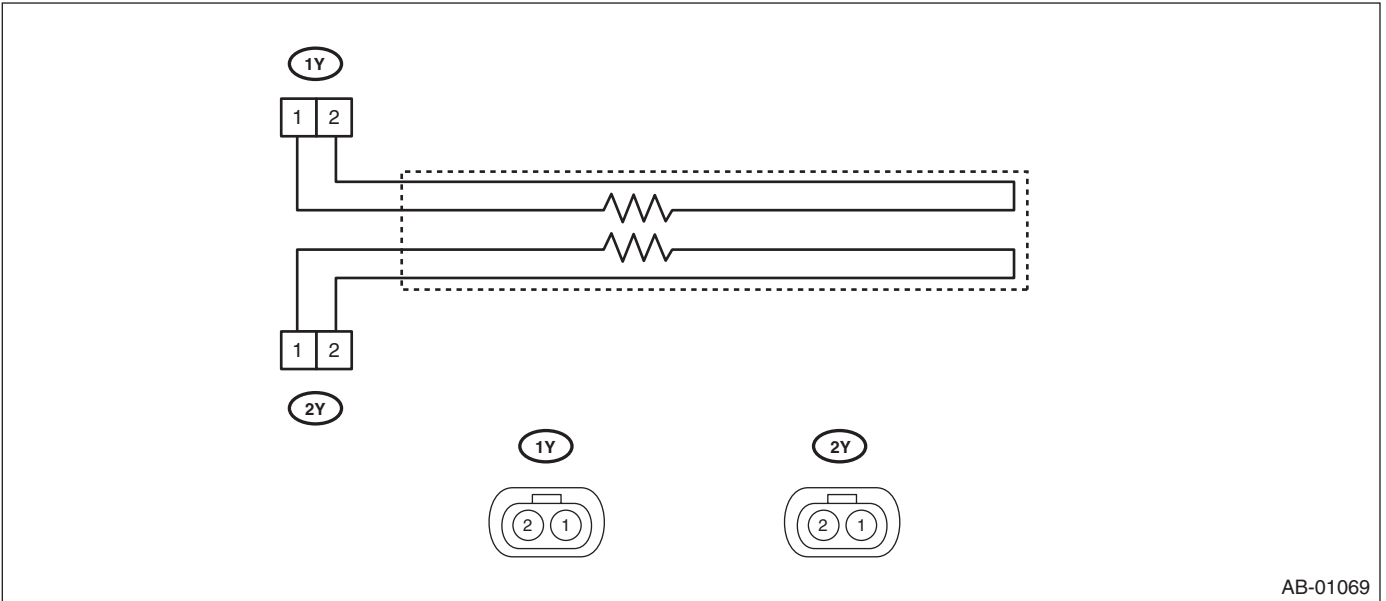


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

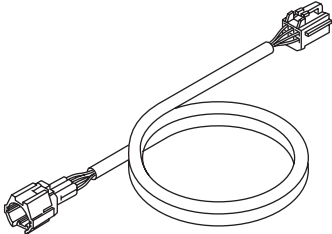
- TEST HARNESS Y

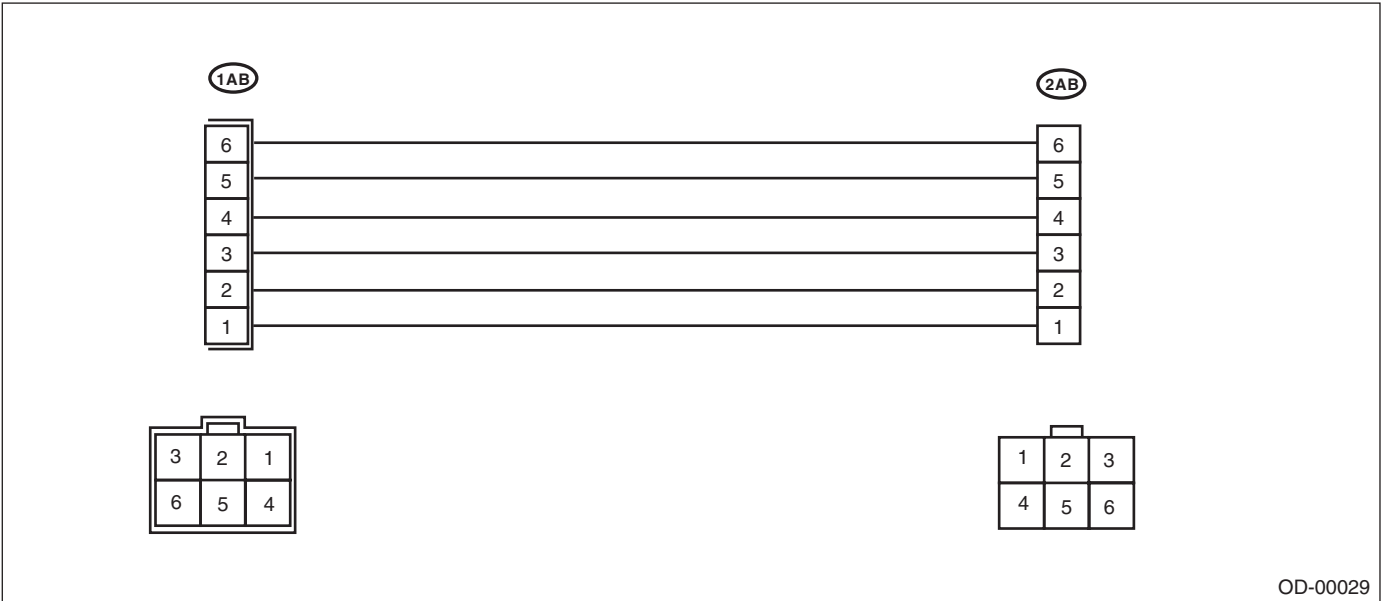
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST98299AG040</p>	28299AG040	TEST HARNESS Y	Used for diagnosing seat belt buckle switch.



General Description

• TEST HARNESS AB

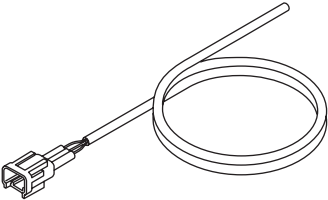
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299XA000	98299XA000	TEST HARNESS AB	Used when measuring voltage and resistance of occupant detection system.

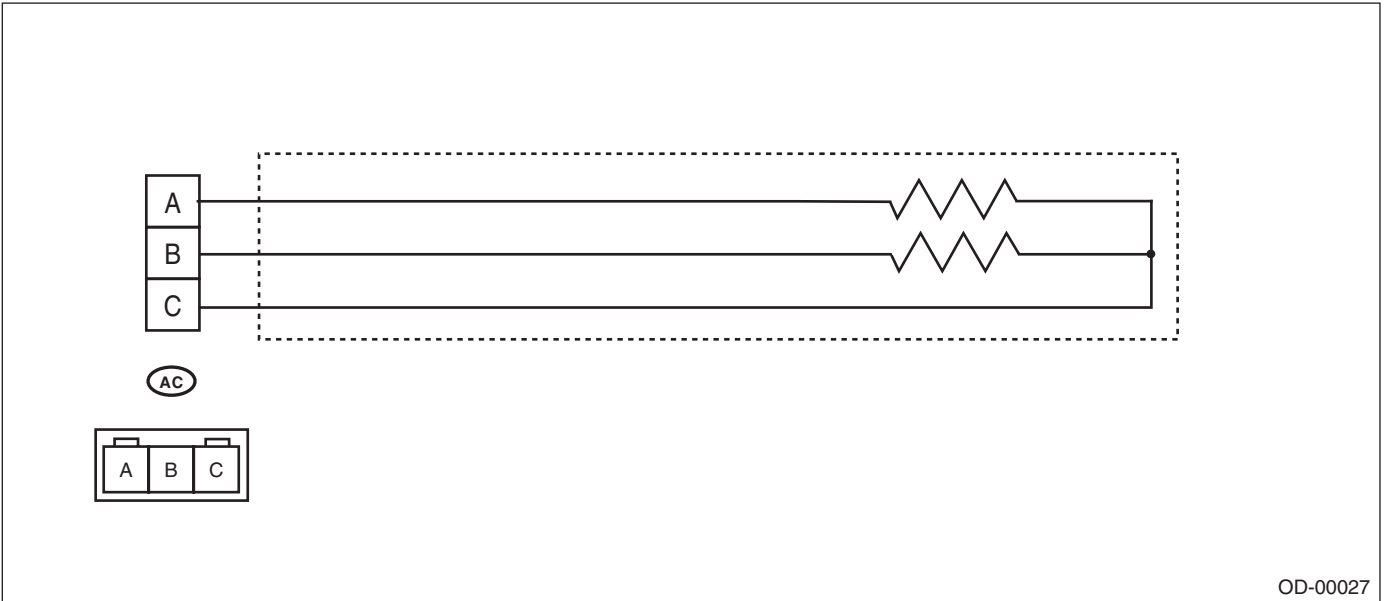


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

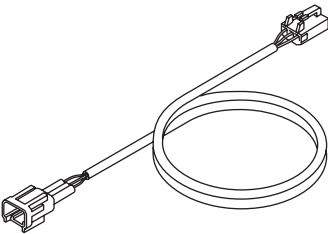
- TEST HARNESS AC

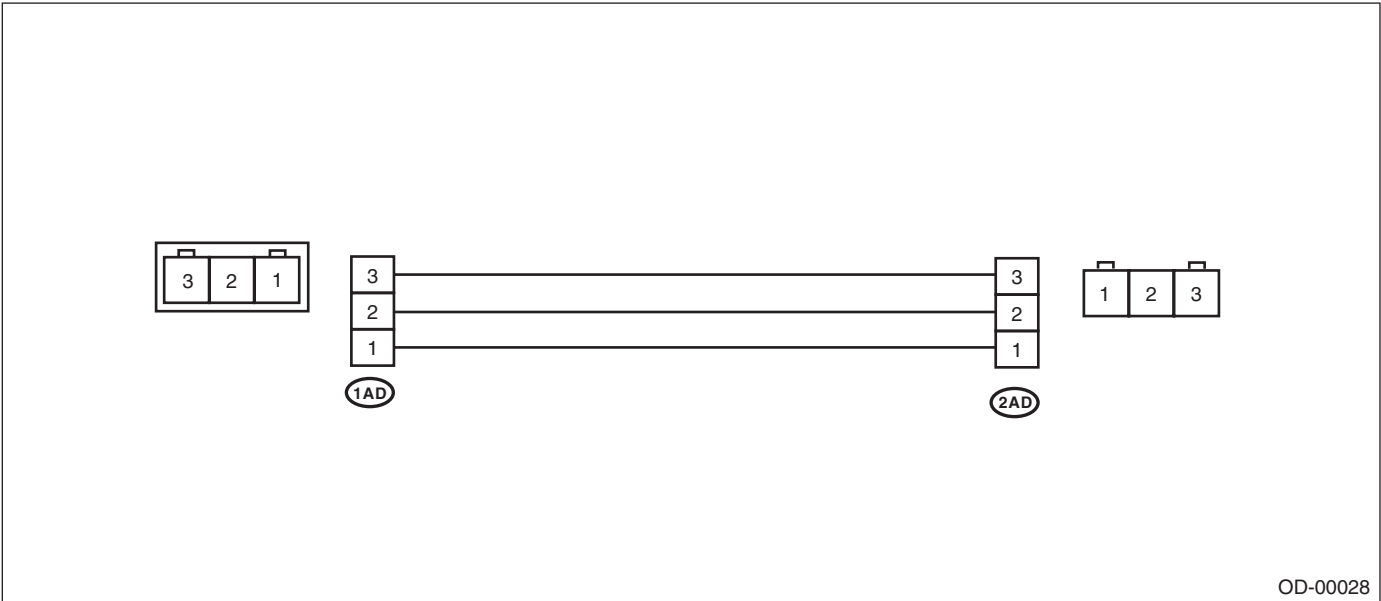
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299XA010	98299XA010	TEST HARNESS AC	Used for diagnosing seat belt tension sensor.



General Description

• TEST HARNESS AD

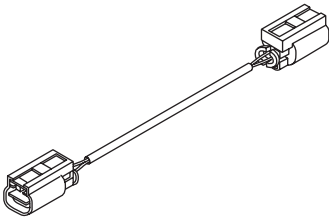
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299XA020	98299XA020	TEST HARNESS AD	Used when measuring voltage and resistance of seat belt tension sensor.

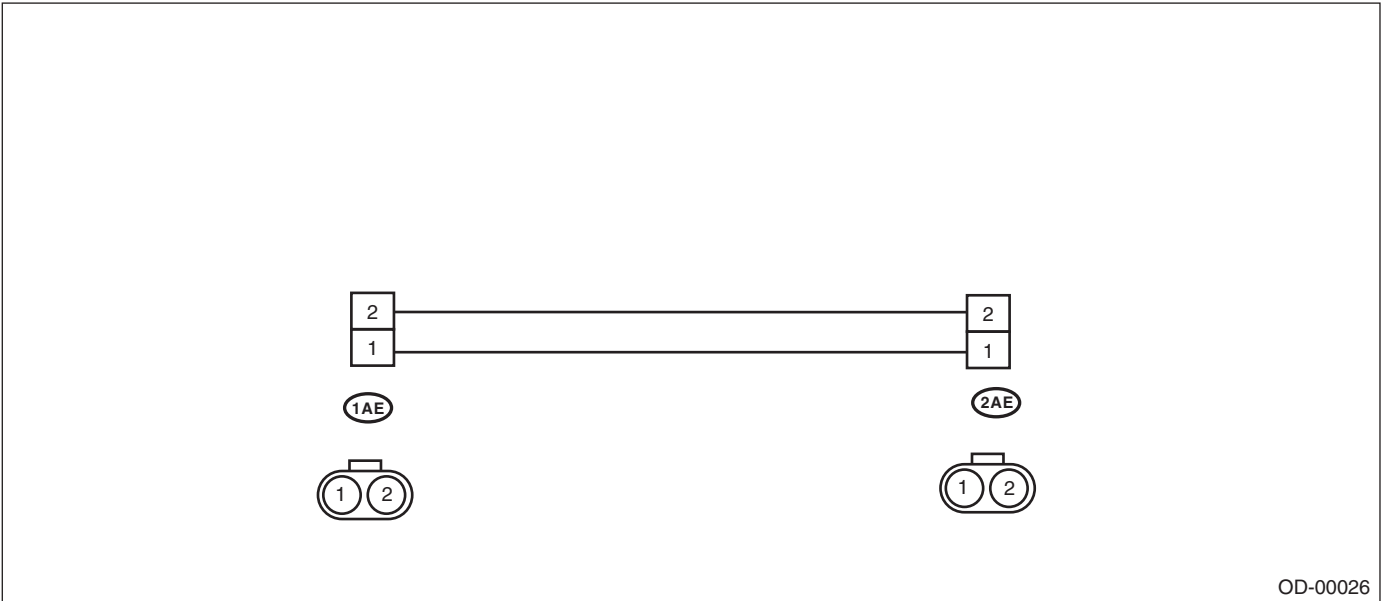


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

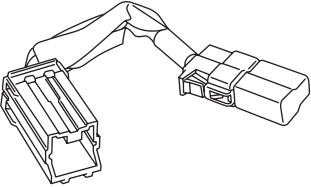
• TEST HARNESS AE

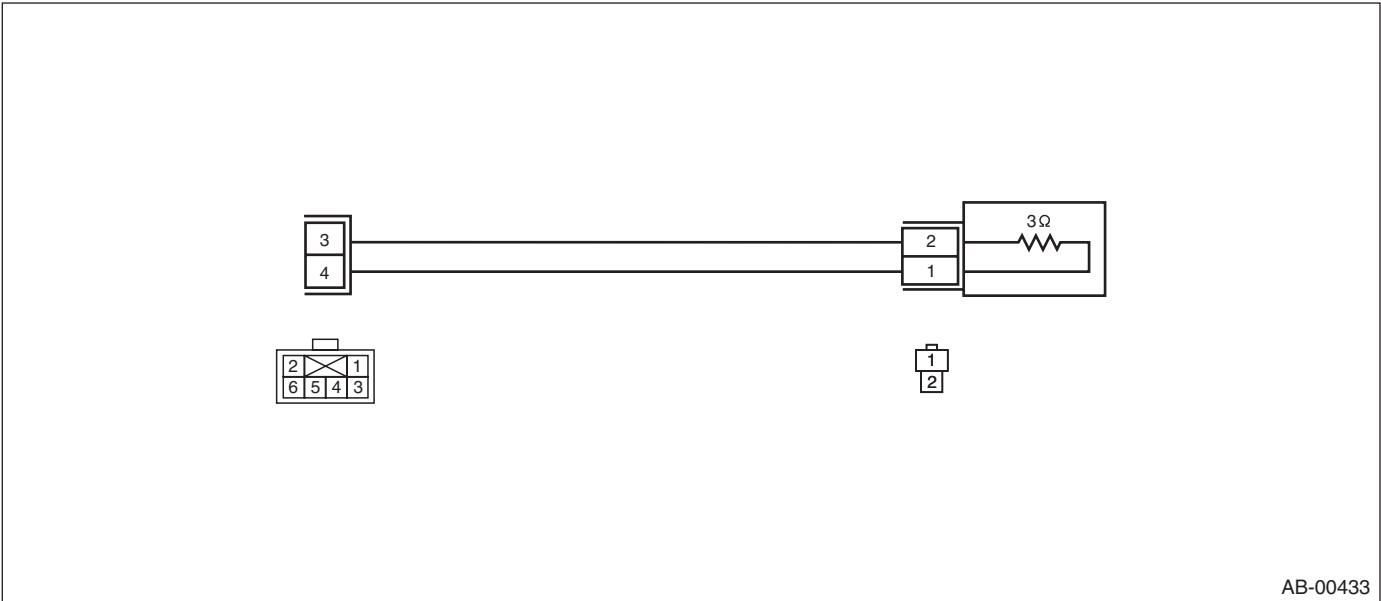
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299XA030	98299XA030	TEST HARNESS AE	<ul style="list-style-type: none"><li>• Used for diagnosing seat belt tension sensor.</li><li>• Used together with test harness Y.</li></ul>



# General Description

• AIRBAG RESISTOR

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
  ST98299PA040	98299PA040	AIRBAG RESISTOR	This has the same resistance value as an airbag module, and is used in place of an airbag module.



AB-00433