

## General Description

### AIRBAG SYSTEM (DIAGNOSTICS)

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## 3. General Description

### A: CAUTION

Refer to "CAUTION" in "General Description" in Airbag System. <Ref. to AB-10, CAUTION, General Description.>

### B: INSPECTION

Measure the battery voltage and check electrolyte.

**Standard voltage: 12 V**

**Specific gravity: 1.260 or more**

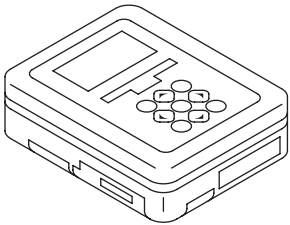
### C: PREPARATION TOOL

#### CAUTION:

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

#### 1. SPECIAL TOOL

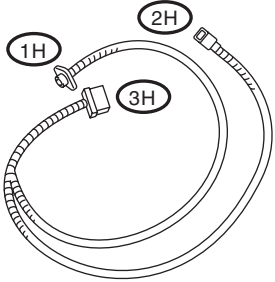
- Subaru Select Monitor

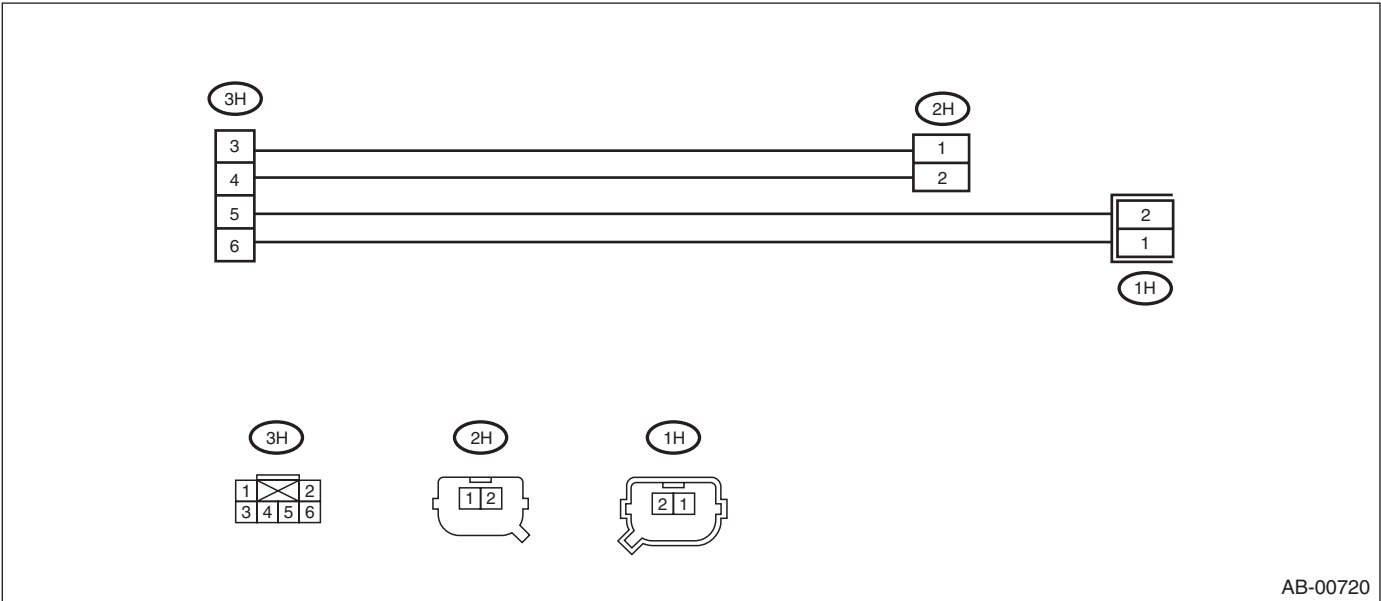
| ILLUSTRATION                                                                                     | TOOL NUMBER | DESCRIPTION                      | REMARKS                                         |
|--------------------------------------------------------------------------------------------------|-------------|----------------------------------|-------------------------------------------------|
| <br>ST1B022XU0 | 1B022XU0    | SUBARU SELECT<br>MONITOR III KIT | Used for troubleshooting the electrical system. |

# General Description

AIRBAG SYSTEM (DIAGNOSTICS)

• TEST HARNESS H

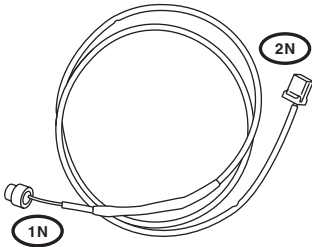
| ILLUSTRATION                                                                                      | TOOL NUMBER | DESCRIPTION    | REMARKS                                                                                      |
|---------------------------------------------------------------------------------------------------|-------------|----------------|----------------------------------------------------------------------------------------------|
| <br>ST98299FA030 | 98299FA030  | TEST HARNESS H | Used when measuring voltage and resistance of front sub sensor and front door impact sensor. |

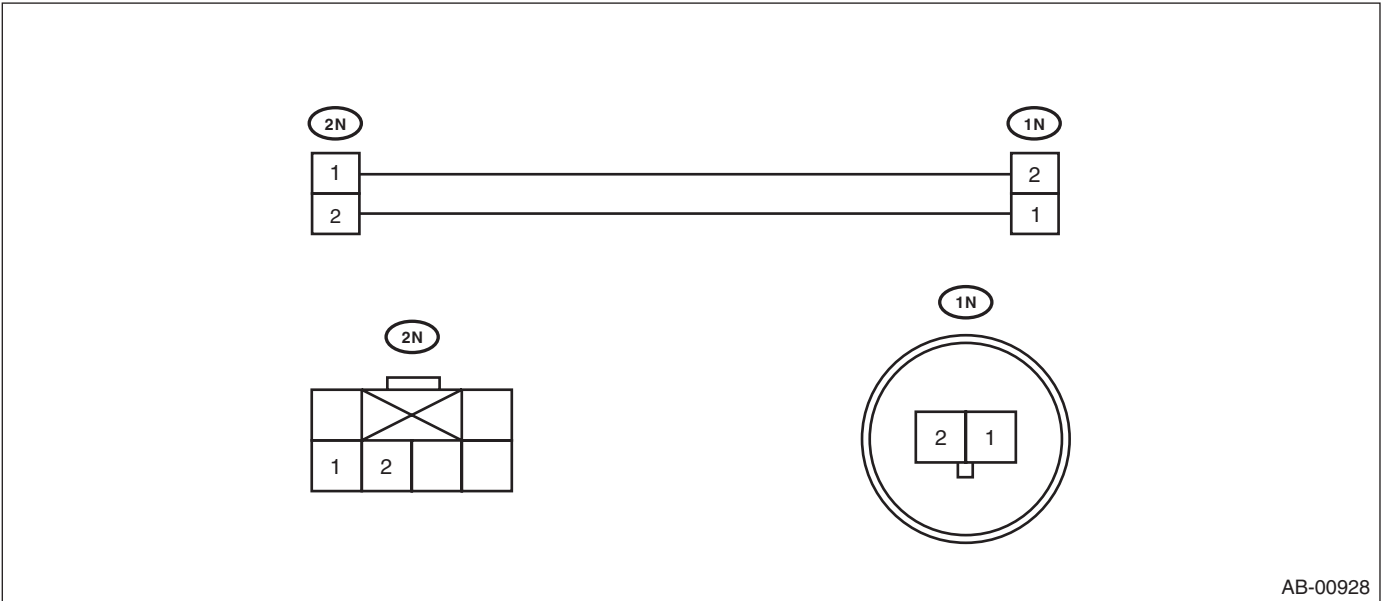


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

- TEST HARNESS N

| ILLUSTRATION                                                                                      | TOOL NUMBER | DESCRIPTION    | REMARKS                                                                                                                 |
|---------------------------------------------------------------------------------------------------|-------------|----------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>ST98299SA000 | 98299SA000  | TEST HARNESS N | Used when measuring voltage and resistance of driver's airbag module, seat belt pretensioner and curtain airbag module. |

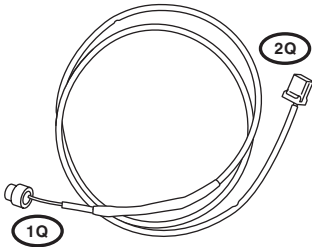


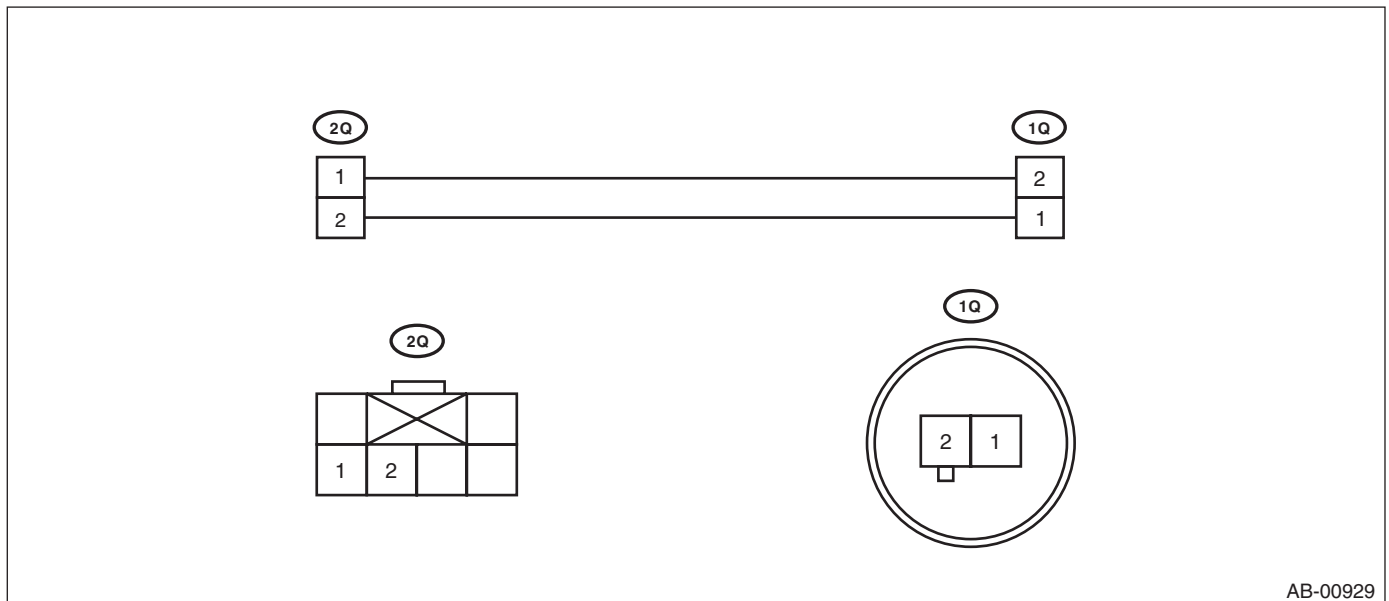
AB-00928

# General Description

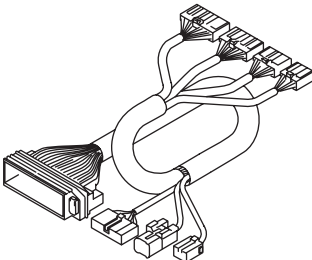
## AIRBAG SYSTEM (DIAGNOSTICS)

### • TEST HARNESS Q

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

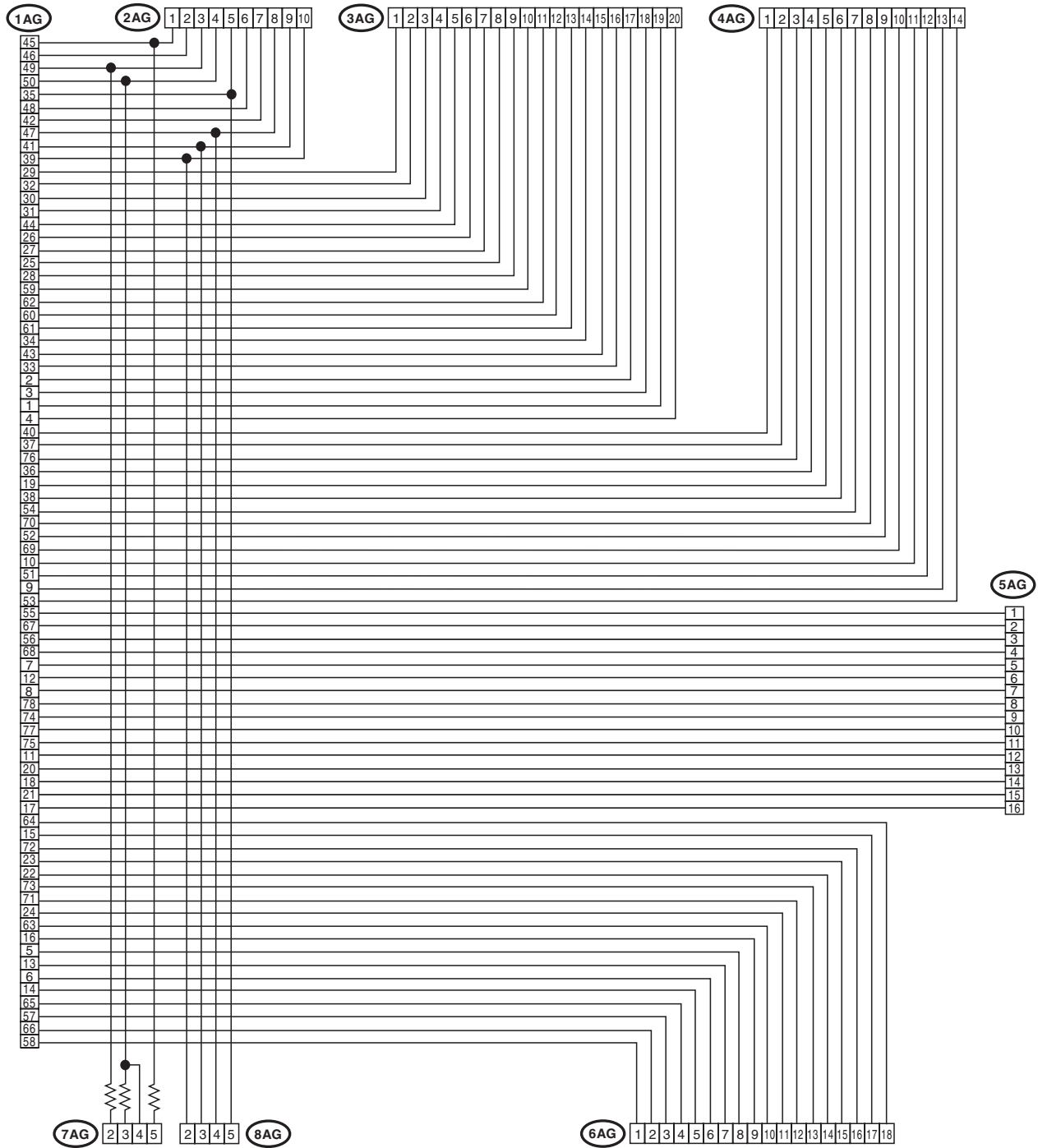


### • TEST HARNESS AG

| ILLUSTRATION                                                                                            | TOOL NUMBER | DESCRIPTION     | REMARKS                                                              |
|---------------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------------------------------------------------------|
|  <p>ST98299AG070</p> | 98299AG070  | TEST HARNESS AG | Used when measuring voltage and resistance of airbag control module. |

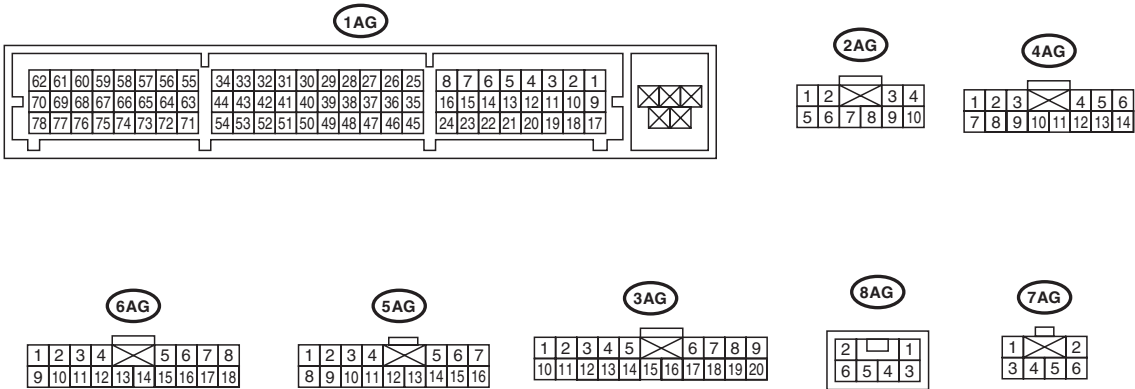
# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)



AB-01902

# General Description



AB-01781

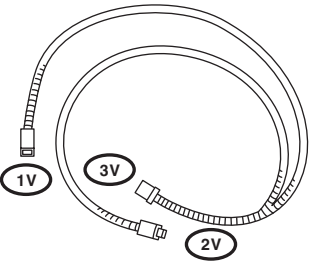
## AIRBAG SYSTEM (DIAGNOSTICS)

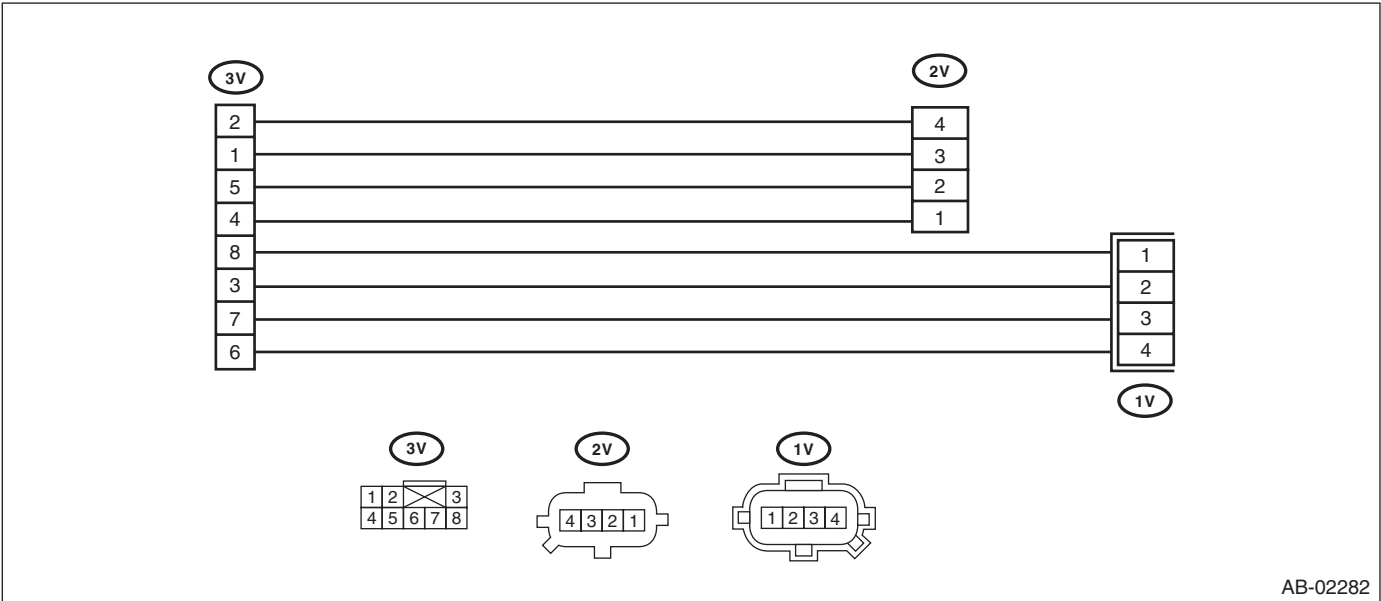
| ILLUSTRATION                                                                                          | TOOL NUMBER | DESCRIPTION     | REMARKS                                                                                                |
|-------------------------------------------------------------------------------------------------------|-------------|-----------------|--------------------------------------------------------------------------------------------------------|
|  <p>ST98299AG080</p> | 98299AG080  | TEST HARNESS AH | Used together with test harness AG when measuring voltage and resistance of the airbag control module. |



General Description

• TEST HARNESS V

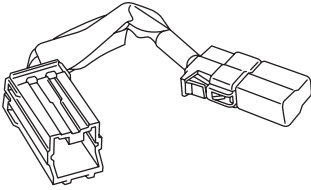
| ILLUSTRATION                                                                                      | TOOL NUMBER | DESCRIPTION    | REMARKS                                                                                     |
|---------------------------------------------------------------------------------------------------|-------------|----------------|-----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

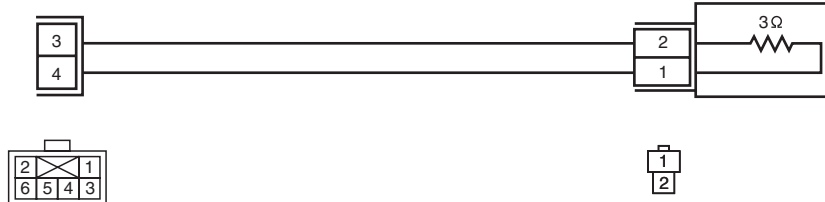


# General Description

## AIRBAG SYSTEM (DIAGNOSTICS)

### • AIRBAG RESISTOR

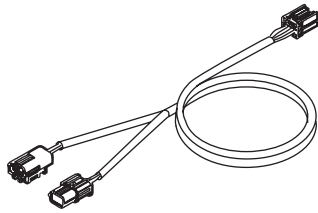
| ILLUSTRATION                                                                                          | TOOL NUMBER | DESCRIPTION     | REMARKS                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|-------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>ST98299PA040</p> | 98299PA040  | AIRBAG RESISTOR | Used in replacement of airbag module for which resistance value is same as airbag module.<br>Two ST are required for diagnosis of two-stage inflator type airbag module. |

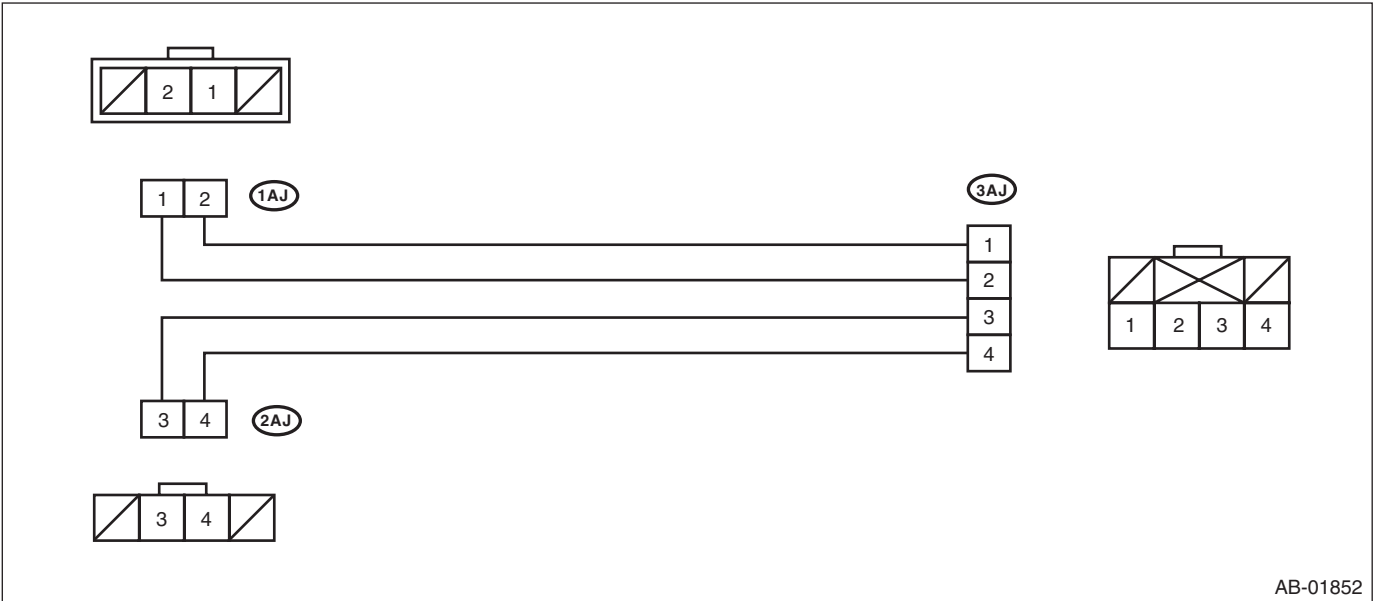


AB-00433

General Description

• TEST HARNESS AJ

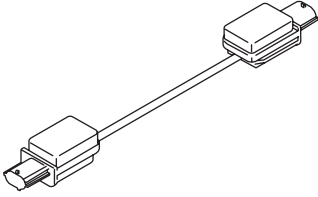
| ILLUSTRATION                                                                                      | TOOL NUMBER | DESCRIPTION     | REMARKS                                                                 |
|---------------------------------------------------------------------------------------------------|-------------|-----------------|-------------------------------------------------------------------------|
| <br>ST98299FG000 | 98299FG000  | TEST HARNESS AJ | Used when measuring power supply and resistance of side airbag harness. |

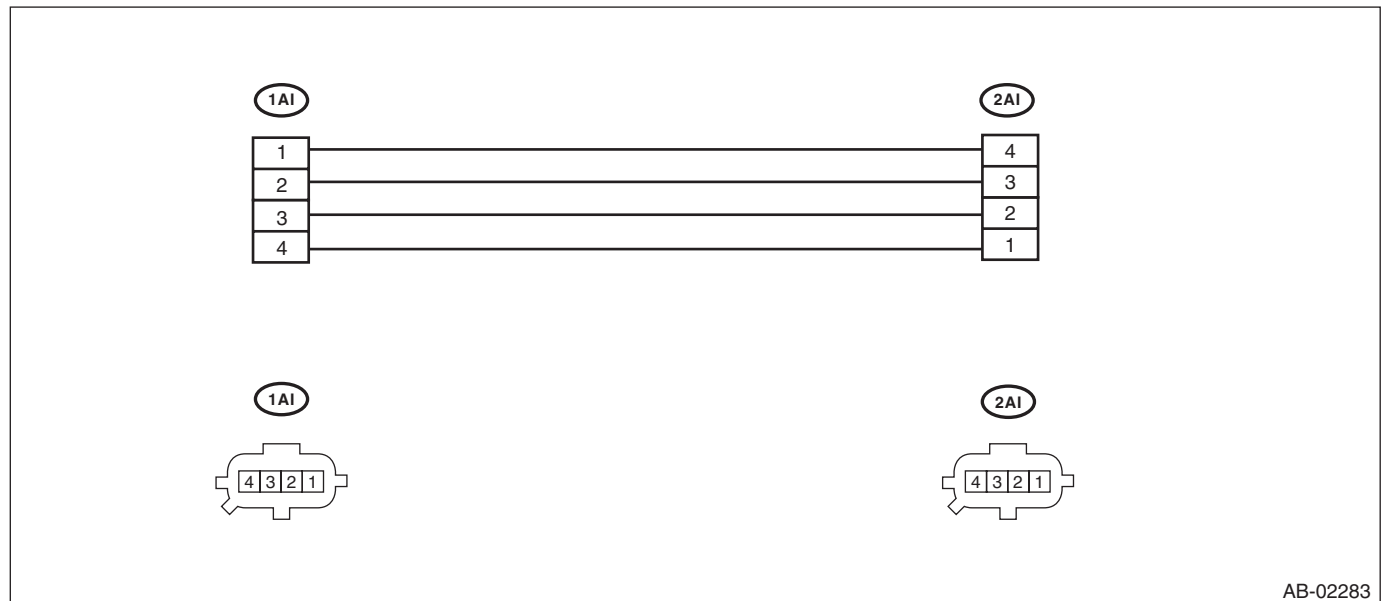


## General Description

### AIRBAG SYSTEM (DIAGNOSTICS)

#### • TEST HARNESS AI

| ILLUSTRATION                                                                                          | TOOL NUMBER | DESCRIPTION     | REMARKS                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------|-------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>ST98299AG090</p> | 98299AG090  | TEST HARNESS AI | <ul style="list-style-type: none"> <li>Used for diagnoses of side airbag sensor and curtain airbag sensor.</li> <li>Used together with test harness V.</li> </ul> |



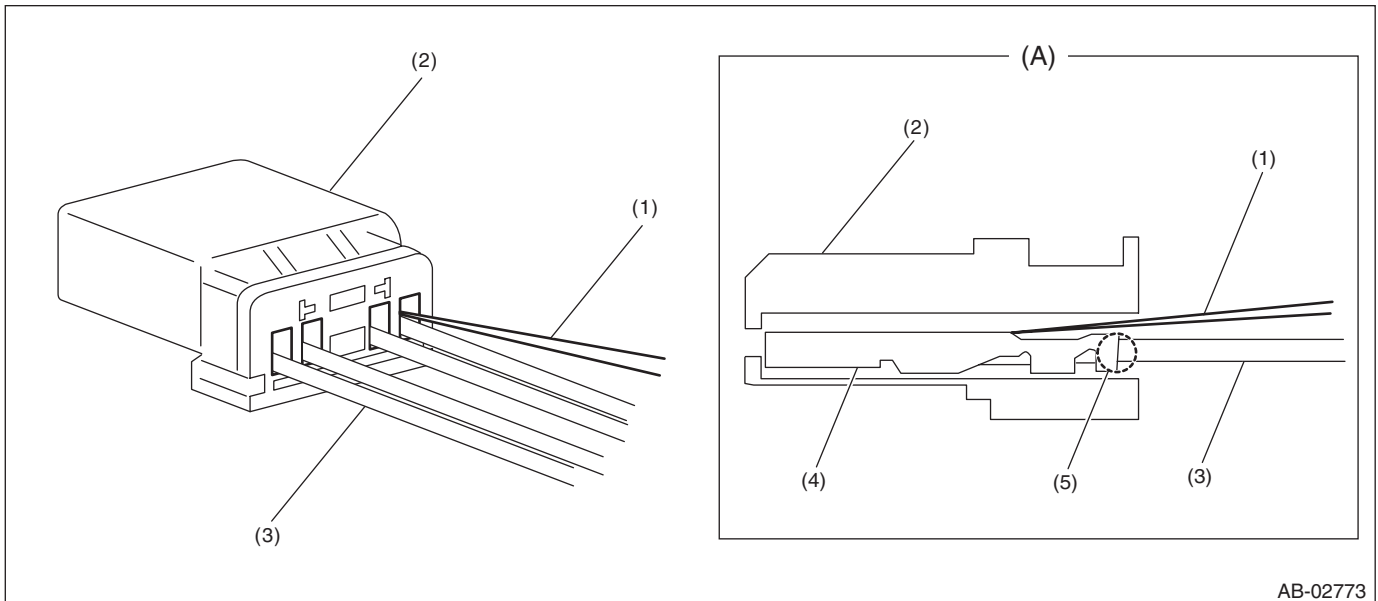
AB-02283

## 2. GENERAL TOOL

| TOOL NAME      | REMARKS                                                                  |
|----------------|--------------------------------------------------------------------------|
| Circuit tester | Used for measuring resistance, voltage and current.                      |
| Oscilloscope   | Used for measuring the sensor.                                           |
| Probe          | Used when measuring voltage and resistance of passenger's airbag module. |

### 3. HOW TO USE PROBE

Insert the probe into the harness hole, and contact it with the terminal.



AB-02773

(A) Cross section

(1) Probe

(2) Connector (housing)

(3) Harness

(4) Terminal

(5) Connection

#### CAUTION:

- Do not insert the probe forcibly.
- Be careful not to contact it to the connection (5) between the terminal and harness. (Harness will come off easily from connector if doing so.)