

# General Description

## LAN SYSTEM (DIAGNOSTICS)

### 3. General Description

#### A: CAUTION

##### 1. SUPPLEMENTAL RESTRAINT SYSTEM “AIRBAG”

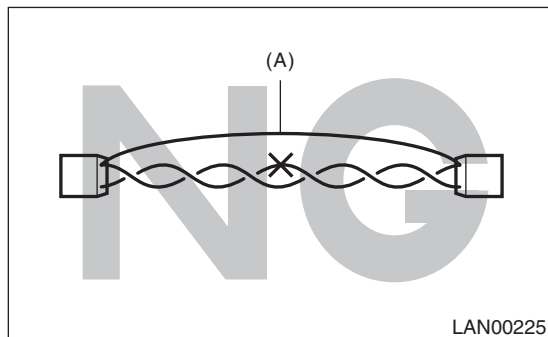
Airbag system wiring harness is routed near the body integrated unit and twisted pair line.

##### CAUTION:

- Do not use the electrical test equipment on all airbag system wiring harnesses and connectors.
- Be careful not to damage the airbag system wiring harness when servicing the body integrated unit and LAN system.

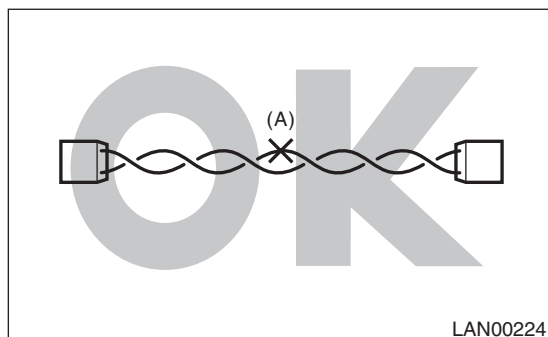
##### 2. LAN SYSTEM

- Bus line of LAN system is twisted pair line. Be careful not to by-pass or partly unbind the twisted pair line.
- Do not make clearance between bus lines (CAN High, CAN Low).
- Difference of bus line length should be within 10 cm (3.94 in).
- Fray near the connector should be within 8 cm (3.14 in).



(A) Bypass wire connection

- If the characteristics of the twisted pair line are changed, it may extremely weaken against noise.
- When repairing the harness, connect the wires using soldering and protect it with insulating tape etc.



(A) Soldering and protection with insulating tape

- When measuring the resistance of CAN communication circuit, measure it in sleep status.

To enter sleep status

- With ignition switch OFF and key or switch operation stopped, keep the doors, trunk, and rear gate all closed for one minute or more.
- On models with keyless access function, keep the access key 2 m or more away from the vehicle.

#### B: INSPECTION

Before performing diagnostics, check the following item which might affect body integrated unit malfunctions.

- 1) Measure the battery voltage and check electrolyte.

**Standard voltage: 12 V or more**

**Specific gravity: 1.260 or more**

- 2) Check the fuse condition.

Make sure that ampere of the fuse is setting value, and it is not blown out.

- 3) Check the connecting condition of harness and harness connector.

- 4) Confirm settings of body integrated unit are corresponded to vehicle equipment. <Ref. to BC(diag)-19, OPERATION, Registration Body Integrated Unit.>

- 5) Make sure that the User Customizing of the body integrated unit matches the vehicle equipment. <Ref. to BC(diag)-17, OPERATION, User Customizing.>

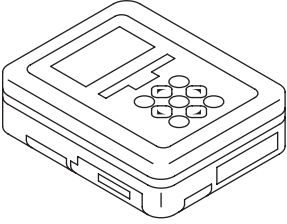
- 6) Confirm “Factory initial setting” of body integrated unit registrations is set to “Market”.

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## C: PREPARATION TOOL

### 1. SPECIAL TOOL

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

### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.