

General Description

LAN SYSTEM (DIAGNOSTICS)

3. General Description

A: CAUTION

1. SUPPLEMENTAL RESTRAINT SYSTEM “AIRBAG”

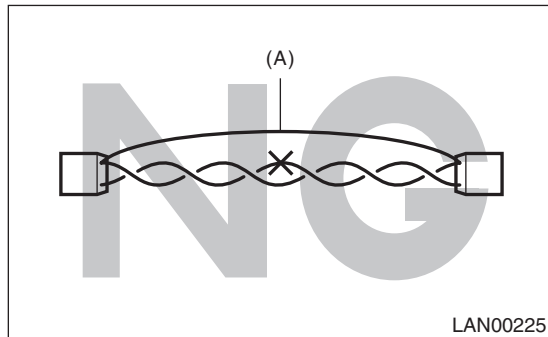
Airbag system wiring harness is routed near the body integrated unit and twisted pair line.

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.

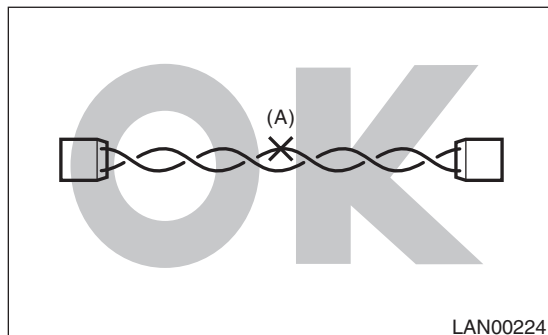
2. LAN SYSTEM

- 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)-18, OPERATION, Registration Body Integrated Unit.>

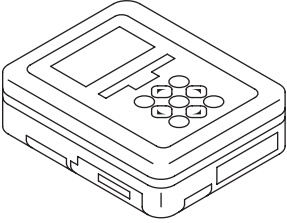
- 5) Make sure that the User Customizing of the body integrated unit matches the vehicle equipment. <Ref. to BC(diag)-16, OPERATION, User Customizing.>

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

- 7) Confirm key illumination does not blink with ignition switch turned to ON.

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.