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2018 NISSAN Sunny OEM Service and Repair Workshop Manual

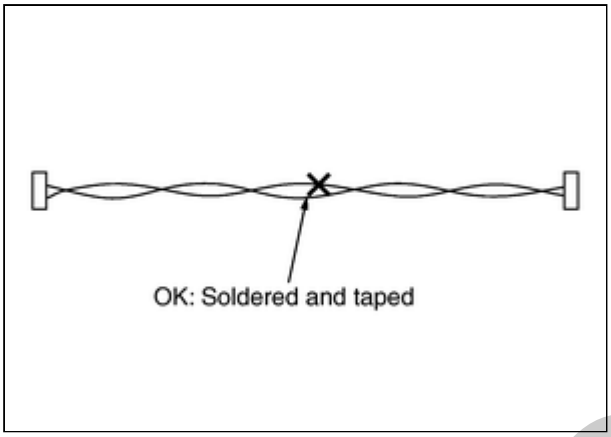
Go to manual page

Precautions For Harness Repair

RDE-001899087

CAN communication uses a twisted pair line. Be careful when repairing it.

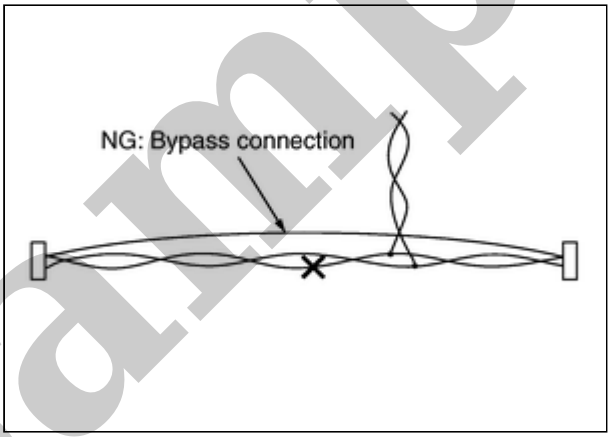
- Solder the repaired area and wrap tape around the soldered area.



RDE-001502435-01-KIB8766E

NOTE:
A fray of twisted lines must be within 110 mm (4.33 in).

- Bypass connection is never allowed at the repaired area.



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NOTE:
Bypass connection may cause CAN communication error. The spliced wire becomes separated and the characteristics of twisted line are lost.

Wiring Diagram

Click link to Wiring Diagram.

Work Procedure

SIEMD-7109152

When replacing ADAS control unit 2, it is necessary to write MAC key to ADAS control unit 2. Write MAC key to ADAS control unit 2 according to "MAC Key writing" procedure of "CONSULT Operation Manual".

CAUTION:
During MAC key writing, maintain the following conditions:

- **Power switch ON**
- **CONSULT is connected to internet**

1. PERFORM MAC KEY WRITING

1. Power switch ON.
2. Select "MAC Key writing" on "Work Support" of "ICC/ADAS 2" using CONSULT.
3. Touch "Write".

>>

WORK END

Work Procedure

SIEMD-7459873

VIN Registration is an operation to register the VIN in ADAS control unit.

1. CHECK VIN

Check VIN of vehicle and note it. For VIN stamped position, refer to Information About Identification or Model Code .

>>

GO TO 2 .

2. PERFORM VIN REGISTRATION

With CONSULT

1. Power switch ON.

CAUTION:
Never select READY

2. Select “VIN registration” at "WORK SUPPORT" mode on the CONSULT screen.
3. Follow the instructions on the CONSULT screen.

>>

END

Work Procedure

SIEMD-7109247

After replacing the ADAS control unit 2 and after replacing or removing the following steering components, the steering torque calibration is necessary to operate the system normally.

- Steering wheel
- Spiral cable
- Steering angle sensor
- Steering column assembly
- Steering gear assembly

NOTE:
Follow the CONSULT when performing Steering Torque Calibration. (Steering Torque Calibration cannot be performed without CONSULT).

Work Procedure (Preparation)

1. PERFORM SELF-DIAGNOSIS

1. Turn ignition switch ON.
2. Perform self-diagnosis of "ICC/ADAS 2".
3. Check if any DTC is detected.

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the applicable item. Refer to DTC Index.

NO>>

GO TO 2.

2. PREPARATION BEFORE STEERING TORQUE CALIBRATION

1. Perform pre-inspection for diagnosis. Refer to Work Procedure.
2. Place the car on a level surface.
3. Adjust the tire pressure to the specified pressure value.
4. Maintain no-load in vehicle.
5. Check if the following conditions are satisfied.
    - Shift position: P Range
    - Steering wheel: Center (within ±15 degrees)
    - ProPILOT Assist: OFF
    - Vehicle speed: 0 km/h
    - ADAS control unit 2 voltage: More than 10.5 V
6. Release the parking brake.

>>

Refer to Work Procedure (Steering Torque Calibration).

Work Procedure (Steering Torque Calibration)

NOTE:

- **The steering wheel is operated automatically when "Start" is touched.**
- **Do not touch the steering wheel.**

1. STEERING TORQUE CALIBRATION

CONSULT

NOTE:
Operate CONSULT outside the vehicle, and close all the doors.

1. Select "Work Support", then "Steering Torque Calibration".
2. Select "START" to begin the Steering Torque Calibration.

   NOTE:
   Never touch steering wheel or shake the vehicle when the Steering Torque Calibration is conducted.

3. Confirm the displayed item.
   - “Completed”: Select “Completion”.
   - “Abnormally completed”: Perform the following services.

Displayed item possible cause service procedure:

Possible Cause	Action
Steering wheel torque value is out range.	• Check install condition of steering system (from torque sensor to steering wheel). • After repairing or replacing error-detected parts, perform calibration again.
Out of execution condition.	• Ensure the following items are within the specified range: ◦ ADAS control unit 2 power supply: more than 10.5 V ◦ Shift position: P range ◦ Steering wheel: Center (within ±15 degrees) ◦ Vehicle speed: 0 km/h ◦ Touched the steering wheel during calibration: retry without touching the steering wheel. ◦ Some parts are not normal: Perform “All DTC Reading” with CONSULT. • Touch "Retry" after satisfying the execution conditions.

Possible Cause	Action
Calibration for torque value is abnormally completed.	Touch "Retry".

Confirm that “Completed” is displayed and then select “End” to close the adjustment procedure.

>>

Work End.

1. CHECK THE STEERING WHEEL

Is the steering wheel equipped with a cover or other materials?

YES>>

Remove the steering wheel cover or other materials.

NO>>

Inspection End.

Work Procedure

SIEMD-7109322

Vehicle specification needs to be written with CONSULT because it is not written after replacing the ADAS control unit 2.

The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the ADAS control unit 2.

NOTE:
For details the network connection and operation, refer to “CONSULT Operation Manual”.

The configuration no need to “save” configuration data from the ADAS control unit 2. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.

CAUTION:

- **Complete the procedure of “Configuration” in order.**
- **If incorrect “Configuration”, incidents might occur.**

1. WRITING VEHICLE SPECIFICATION

With CONSULT

Perform writing vehicle specification to ADAS control unit 2 following "Automatic Configuration" procedure of "Configuration" according to CONSULT Operation Manual.

NOTE:

- **Log in the network according to CONSULT guidance.**
- **For details the network connection and operation, refer to “CONSULT Operation Manual”.**

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WORK END