

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2010 NISSAN Armada OEM Service and Repair Workshop Manual

[Go to manual page](#)

NO>>

Repair harness connector connection.

3. CHECK CONTINUITY BETWEEN LBC AND VEHICLE COMMUNICATION HARNESS CONNECTOR

1. Remove connector of LBC.
2. Check continuity between LBC and vehicle communication harness connector.

LBC		Vehicle communication harness connector		Continuity
Connector	Terminal	Connector	Terminal	
LB17	30	LB2	35	Exist
	20		34	

3. Check harness for short to ground and short to lines.

Is inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace Li-ion battery vehicle communication harness.

Sample

WARNING:

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

WARNING:

- Be sure to remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- The removed service plug must always be carried in a pocket of the responsible worker or placed in the tool box during the procedure to prevent the plug from being connected by mistake.
- Be sure to wear insulating protective equipment consisting of glove, shoes, face shield and glasses before beginning work on the high voltage system.
- Never allow workers other than the responsible person to touch the vehicle containing high voltage parts. To keep others from touching the high voltage parts, these parts must be covered with an insulating sheet except when using them.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

Never bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Service Manual. A malfunction may occur if this is not observed.

1. CHECK INSTALLATION CONDITION OF SERVICE PLUG

Check service plug installation condition. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Install service plug properly.

2. CHECK INTERLOCK DETECTING SWITCH (SERVICE PLUG)

Check interlock detecting switch (Service plug). Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Replace service plug.

3. CHECK INSTALLATION CONDITION OF HIGH-VOLTAGE HARNESS CONNECTOR

WARNING:

Check the connection status of high-voltage harness connector (Front) for locking and interlocking.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Connect high-voltage harness connector (front) harness connector properly.

4. CHECK INTERLOCK DETECTING SWITCH [HIGH VOLTAGE HARNESS CONNECTOR (FRONT)]

Check interlock detecting switch [(High-voltage harness connector(Front))]. Refer to [Component Inspection.](#)

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Replace Li-ion battery high-voltage harness.

5. REMOVE LI-ION BATTERY

1. Remove Li-ion battery. Refer to [Removal & Installation.](#)
2. Remove battery pack upper case. Refer to [Removal & Installation.](#)

>>

[GO TO 6.](#)

6. CHECK CONNECTOR CONNECTION CONDITION

Check connection status of LBC harness connector, interlock detecting switch (Service plug) harness connector and interlock detecting switch [High voltage harness connector (Front)] harness connector.



NOTE:

Pull the connector first then push the connector to confirm a connection. Since id connector is pressed first, connector may be locked, malfunction cannot be found.

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair harness connector connection.

7. CHECK INTERLOCK DETECTING CIRCUIT CONTINUITY

1. Remove LBC harness connector, interlock detecting switch (Service plug) harness connector and interlock detecting switch [High voltage harness connector (Front)] harness connector.

2. Check continuity between LBC harness connector and interlock detecting switch (Service plug) harness connector.

LBC		Interlock detecting switch (Service plug)		Continuity
Connector	Terminal	Connector	Terminal	
LB17	21	LB12	21	Exist

3. Check harness for short to ground and short to lines.

4. Check continuity between interlock detecting switch (Service plug) harness connector and interlock detecting switch [high voltage harness connector (front)] harness connector.

Interlock detecting switch (Service plug)		Interlock detecting switch [High voltage harness connector (Front)]		Continuity
Connector	Terminal	Connector	Terminal	
LB12	1	LB8	1	Exist

5. Check harness for short to ground and short to lines.

6. Check continuity between interlock detecting switch [High voltage harness connector (Front)] and LBC harness connector.

Interlock detecting switch [High voltage harness connector (Front)]		LBC		Continuity
Connector	Terminal	Connector	Terminal	
LB8	31	LB17	31	Exist

7. Check harness for short to ground and short to lines.

YES>>

[GO TO 8.](#)

NO>>

Repair or replace Li-ion battery vehicle communication harness.

8. CHECK HIGH VOLTAGE HARNESS CONNECTOR (FRONT)

1. Check continuity between high voltage harness connector and interlock detecting switch (High voltage harness) harness connector.

High voltage harness connector (Front)		Interlock detecting switch [High voltage harness connector (Front)]		Continuity
Connector	Terminal	Connector	Terminal	
LB1	2	LB8	31	Exist
	1		1	

2. Check harness for short to ground and short to lines.

YES>>

INSPECTION END

NO>>

Replace high voltage harness connector. Refer to [Disassembly & Assembly](#).

Sample

WARNING:

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

WARNING:

- Be sure to remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- The removed service plug must always be carried in a pocket of the responsible worker or placed in the tool box during the procedure to prevent the plug from being connected by mistake.
- Be sure to wear insulating protective equipment consisting of glove, shoes, face shield and glasses before beginning work on the high voltage system.
- Never allow workers other than the responsible person to touch the vehicle containing high voltage parts. To keep others from touching the high voltage parts, these parts must be covered with an insulating sheet except when using them.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

Never bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Service Manual. A malfunction may occur if this is not observed.

1. SERVICE PLUG REMOVING

1. Remove the service plug. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).

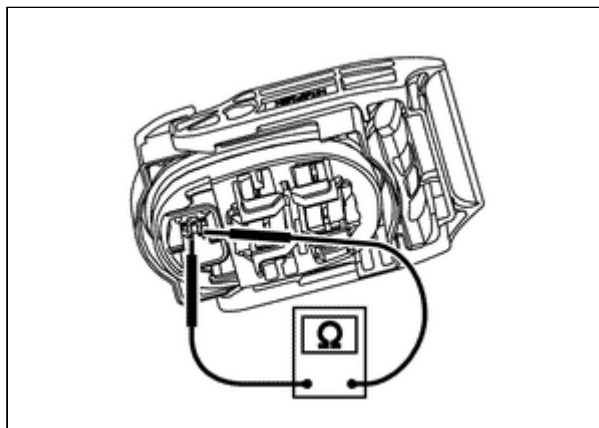
>>

[GO TO 2.](#)

2. CHECK INTERLOCK DETECTING SWITCH (SERVICE PLUG)

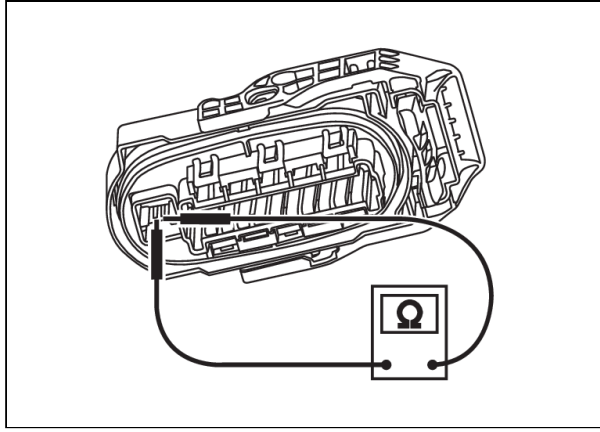
1. Check visually that the terminals are not a corrosion, a bend, a break or a damage.
2. Check the continuity between terminals.

TYPE A



SIEMD-7057918-01-000375301

TYPE B



SIEMD-7057918-ILLU-000009939

Value:

0 Ω approx.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace service plug.

Sample

WARNING:

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

WARNING:

- Be sure to remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- The removed service plug must always be carried in a pocket of the responsible worker or placed in the tool box during the procedure to prevent the plug from being connected by mistake.
- Be sure to wear insulating protective equipment consisting of glove, shoes, face shield and glasses before beginning work on the high voltage system.
- Never allow workers other than the responsible person to touch the vehicle containing high voltage parts. To keep others from touching the high voltage parts, these parts must be covered with an insulating sheet except when using them.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

Never bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Service Manual. A malfunction may occur if this is not observed.

1. PRECONDITIONING-1

WARNING:

Be sure to disconnect the high voltage and check residual voltage before work starts.

1. Disconnect the high voltage. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).
2. Check voltage of high voltage circuit. Refer to [CHECK VOLTAGE IN HIGH VOLTAGE CIRCUIT : Precautions](#).
3. Remove Li-ion battery. Refer to [Removal & Installation](#).
4. Remove battery pack upper case. Refer to [Removal & Installation](#).

>>

[GO TO 2.](#)

2. CHECK CONNECTOR CONNECTION CONDITION

Check the connection status of the LBC harness connector and battery pack water temperature sensor harness connector.

**NOTE:**

Pull the connector first then push the connector to confirm a connection. Since if connector is pressed first, connector may be locked, malfunction cannot be found.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair harness connector connection.

3. CHECK BATTERY PACK WATER TEMPERATURE SENSOR

1. Disconnect battery pack water temperature sensor harness connector.
2. Check battery pack water temperature sensor. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Replace battery pack water temperature sensor.

4. CHECK CONTINUITY BETWEEN BATTERY PACK WATER TEMPERATURE SENSOR AND LBC

1. Remove LBC connector.
2. Check continuity between battery pack water temperature sensor harness connector and LBC harness connector.

Battery pack water temperature sensor		LBC		Continuity
Connector	Terminal	Connector	Terminal	
LB4	+	LB17	23	Exist
	-		24	

3. Check harness for short to ground and short to lines.

Is inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace Li-ion battery vehicle communication harness.