

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 Juke OEM Service and Repair Workshop Manual

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3. CHECK INTERLOCK DETECTING SWITCH [HIGH VOLTAGE HARNESS CONNECTOR(REAR)]

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

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Replace Li-ion battery high-voltage harness (Rear).

4. 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 5.](#)

5. CHECK CONNECTOR CONNECTION CONDITION

Check the connection status of the LBC harness connectors and each interlock detecting switch (Service plug) and interlock detecting switch [High-voltage harness connector (Rear)] harness connectors.



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 6.](#)

NO>>

Repair harness connector connection.

6. CHECK CONTINUITY INTERLOCK DETECTING CIRCUIT HARNESS

1. Remove LBC harness connector and interlock detecting switch [High-voltage harness connector (Rear)] harness connectors.
2. Check continuity between interlock detecting switch [High-voltage harness connector(Rear)], LBC harness connector, and harness connectors.

Interlock detecting switch [High voltage harness connector (Rear)]		LBC		Continuity
Connector	Terminal	Connector	Terminal	
LB18	22	LB41	22	Exist
	32		32	

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

YES>>

[GO TO 7.](#)

NO>>

Repair or replace Li-ion battery vehicle communication harness.

7. CHECK HIGH-VOLTAGE HARNESS CONNECTOR (REAR)

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

High voltage harness connector (Rear)		Interlock detecting switch [High voltage harness connector (Rear)]		Continuity
Connector	Terminal	Connector	Terminal	
LB40	2	LB41	32	Exist
	1		22	

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

YES>>

INSPECTION END

NO>>

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

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

WARNING:

Perform the following procedure before work starts.

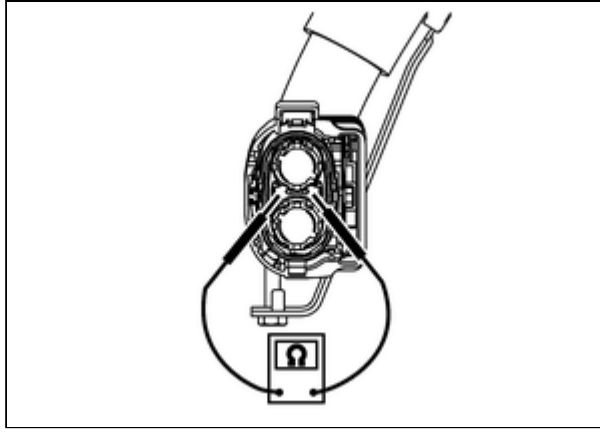
1. Disconnect the high voltage. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).
2. Check voltage of high voltage circuit. Refer to [CHECK VOLTAGE IN HIGH VOLTAGE CIRCUIT : Precautions](#).

>>

[GO TO 2.](#)

2. CHECK INTERLOCK DETECTING SWITCH [HIGH-VOLTAGE HARNESS CONNECTOR (REAR)]

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



SIEMD-7523431-01-000387864

Value:

0 Ω approx.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace Li-ion battery high-voltage harness (Rear).

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

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

Is installation normal?

YES>>

[GO TO 2.](#)

NO>>

Replace service plug.

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 CONNECTION STATUS OF HIGH VOLTAGE HARNESS CONNECTOR (FRONT)

WARNING:

Check connection status of high voltage harness connector (Front) harness connector (Connector lock and interlock status).

Is inspection result normal

YES>>

[GO TO 4.](#)

NO>>

Connect high voltage harness connector (Front) 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 the connection status of the LBC harness connectors and each interlock detecting switch (Service plug) and interlock detecting switch [High-voltage harness connector(Front)] harness connectors.



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 7.](#)

NO>>

Repair harness connector connection.

7. CHECK CONTINUITY INTERLOCK DETECTING CIRCUIT HARNESS

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

2. Check continuity 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 connectors.

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)], LBC harness connector, and harness connectors.

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. PRECONDITIONING

WARNING:

Perform the following procedure 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](#).

>>

[GO TO 2.](#)

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

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