

Your Ultimate Source for OEM Repair Manuals

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2010 NISSAN 370z Nismo OEM Service and Repair Workshop Manual

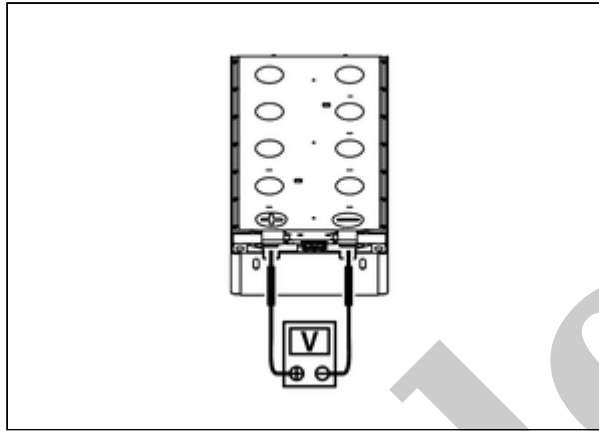
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Diagnosis priority (Group)	DTC	
	P1B6A-13	Cell voltage circuit (Module 11)
	P1B6A-F1	Cell voltage circuit (Module 11)
	P1B6A-F2	Cell voltage circuit (Module 11)
	P1B6B-12	Cell voltage circuit (Module 12)
	P1B6B-13	Cell voltage circuit (Module 12)
	P1B6B-F1	Cell voltage circuit (Module 12)
	P1B6B-F2	Cell voltage circuit (Module 12)
	P1B6C-12	Cell voltage circuit (Module 13)
	P1B6C-13	Cell voltage circuit (Module 13)
	P1B6C-F1	Cell voltage circuit (Module 13)
	P1B6C-F2	Cell voltage circuit (Module 13)
	P1B6D-12	Cell voltage circuit (Module 14)
	P1B6D-13	Cell voltage circuit (Module 14)
	P1B6D-F1	Cell voltage circuit (Module 14)
	P1B6D-F2	Cell voltage circuit (Module 14)
	P1B6E-12	Cell voltage circuit (Module 15)
	P1B6E-13	Cell voltage circuit (Module 15)
	P1B6E-F1	Cell voltage circuit (Module 15)
	P1B6E-F2	Cell voltage circuit (Module 15)
	P1B6F-12	Cell voltage circuit (Module 16)
	P1B6F-13	Cell voltage circuit (Module 16)
	P1B6F-F1	Cell voltage circuit (Module 16)
	P1B6F-F2	Cell voltage circuit (Module 16)
	P1BA1-12	Cell voltage circuit
	P1BA1-13	Cell voltage circuit
	P1BA1-16	Cell voltage circuit
	P1BA1-F1	Cell voltage circuit
	P1BB5-81	Current sensor
	P1BB5-87	Current sensor
	P1BB7-11	Module temperature sensor
	P1BB7-15	Module temperature sensor

1. CHECK MODULE VOLTAGE

Check voltage of module.

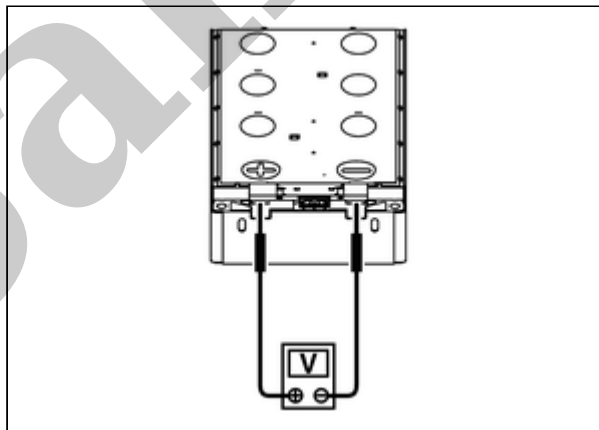
- 2P7S (23 Parallel 7 Series)



SIEMD-7377338-01-000387860

Terminal		Voltage
+	-	
Module		19.600 - 29.288 V
Positive terminal	Negative terminal	

- 2P5S (2 Parallel 5 Series)



SIEMD-7377338-02-000387861

Terminal		Voltage
+	-	
Module		14.000 - 20.920 V
Positive terminal	Negative terminal	

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace module.

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 from vehicle. Refer to [Removal & Installation](#).
4. Remove battery pack upper case. Refer to [Removal & Installation](#).

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2. CHECK CONNECTOR CONNECTING CONDITION

Check connection status of the junction box harness connector.

**NOTE:**

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

Is the inspection result normal?

YES>>

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NO>>

Repair harness connector connection.

3. CHECK CONTINUITY BETWEEN HARNESS CONNECTORS OF JUNCTION BOX AND VEHICLE COMMUNICATION

1. Remove junction box harness connectors.
2. Check continuity between harness connectors of junction box and vehicle communication.

Pre-Charge Relay Circuit

Junction box connector		Vehicle communication connector		Continuity
Connector	Terminal	Connector	Terminal	
LB11	S9	LB2	33	Exist
	S10		14	

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.

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. REMOVE BATTERY PACK

WARNING:

Disconnect the high voltage. Refer to [HOW TO DISCONNECT HIGH VOLTAGE : Precautions](#).

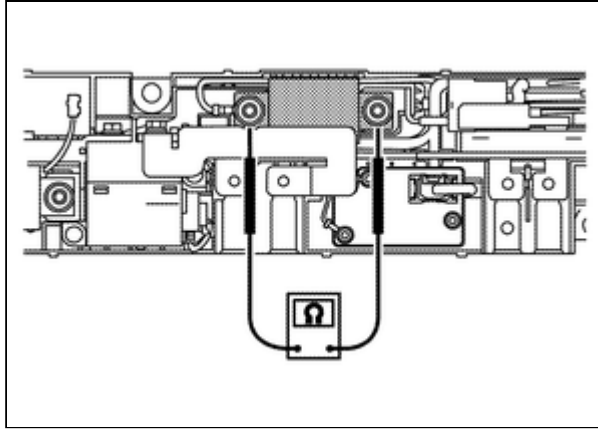
1. Remove Li-ion battery from vehicle. Refer to [Removal & Installation](#).
2. Remove battery pack upper case. Refer to [Removal & Installation](#).
3. Remove junction box cover.

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2. CHECK HIGH VOLTAGE FUSE (MAIN)

1. Check continuity of high voltage fuse (Main).
 - High voltage fuse (Main)

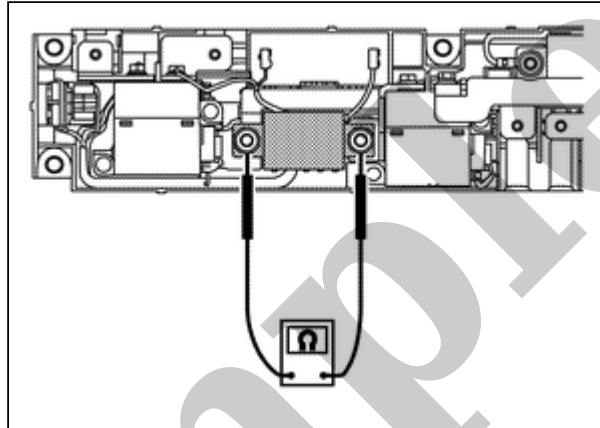


SIEMD-7198564-02-000362465

Value:

0 Ω approx.

- High voltage fuse (Quick charge)

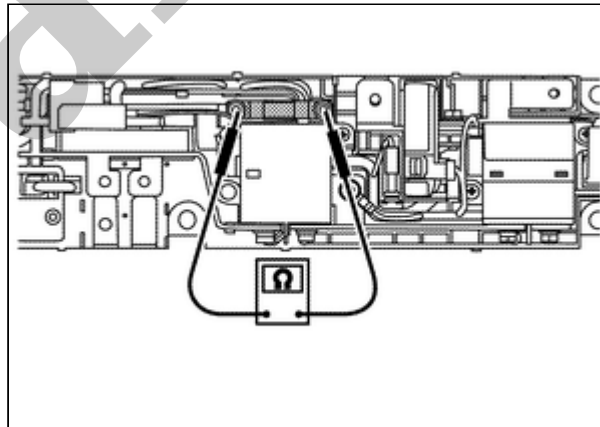


SIEMD-7198564-01-000362467

Value:

0 Ω approx.

- PTC fuse



SIEMD-7198564-03-000362470

Value:

0 Ω approx.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace junction box.

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 from vehicle. Refer to [Removal & Installation](#).
4. Remove battery pack upper case. Refer to [Removal & Installation](#).

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[GO TO 2.](#)

2. CHECK CONNECTOR CONNECTING CONDITION

Check connection status of the junction box harness connector.

**NOTE:**

Pull connector first then push connector to check 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 CONTINUITY BETWEEN HARNESS CONNECTORS OF JUNCTION BOX AND VEHICLE COMMUNICATION

1. Remove junction box harness connectors.
2. Check continuity between harness connectors of junction box and vehicle communication.

Main Relay 1 Circuit

Junction box connector		Vehicle communication connector		Continuity
Connector	Terminal	Connector	Terminal	
LB11	S1	LB2	19	Exist
	S2		1	

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:

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- 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

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

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[GO TO 2.](#)

2. CHECK CONNECTOR CONNECTING CONDITION

Check connection status of the junction box harness connector.

**NOTE:**

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

Is the inspection result normal?

YES>>

[GO TO 3.](#)