

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.

2012 NISSAN 370z Nismo OEM Service and Repair Workshop Manual

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1. PRECONDITIONING

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Change the EVSE, perform normal charging, and wait at least 2 minutes.

**NOTE:**

- **Use an EVSE that has been checked to operate normally.**

3. Power switch ON.
4. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: [GO TO 3](#).

NO-2>>

Confirmation after repair: INSPECTION END

3. CHECK EVSE FUNCTION



NOTE:

When DTC is not detected using the EVSE that already checked to work properly, the vehicle does not have a problem but the EVSE itself may have.

 With CONSULT

1. Erase self-diagnostic result in “EV/HEV” using CONSULT.
2. Conduct an interview with the customer and confirm the EVSE that could not be charged.



NOTE:

When the EVSE that prevented charging is unknown, perform trouble cause simulation test. Refer to [Intermittent Incident](#).

3. Power switch OFF.
4. Use the EVSE that could not be charged and perform normal charging for at least 2 minutes. Connect the EVSE that could not be charged.
5. Power switch ON.
6. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Check EVSE. Refer to [Symptom Table](#)(120V/240V EVSE), [Symptom Table](#)(120V EVSE).

NO>>

Perform intermittent incident. Refer to [Intermittent Incident](#).

1. CHECK ON-BOARD CHARGER SELF-DIAGNOSIS

 With CONSULT

Check self-diagnostic result in “CHARGER/PD MODULE”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1638	98	Charge connector temperature	Diagnosis condition	During quick charge
			Signal	—
			Threshold	The quick charge port temperature is high and exceeds the specified value
			Detection time	More than 3 seconds

POSSIBLE CAUSE

- Quick charge port temperature is high
- VCM

FAIL-SAFE

Not applicable

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2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

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If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Turn power switch OFF.
2. Connect the quick charger coupler to the quick charge port.
3. Perform quick charge (charging using the quick charger) for at least 10 minutes.
4. Turn power switch ON and wait at least 10 seconds.
5. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. PERFORM CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Turn power switch ON.
2. Erase DTC.
3. Turn power switch OFF.
4. Perform DTC confirmation procedure again with a different quick charger than the quick charger that was used when performing the DTC confirmation procedure the previous time. Refer to [Confirmation Procedure](#).

Is DTC detected again?

YES>>

[GO TO 2.](#)

NO>>

INSPECTION END (Quick charger malfunction)

2. CHECK QUICK CHARGE PORT TEMPERATURE SENSOR CIRCUIT

Check quick charge port temperature sensor circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace error-detected parts.

3. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to [Intermittent Incident](#).

Is the inspection result normal?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

Repair or replace error-detected parts.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1638	F9	Charge connector temperature	Diagnosis condition	During quick charge
			Signal	<ul style="list-style-type: none"> Quick charge port temperature sensor 1 Quick charge port temperature sensor 2
			Threshold	The quick charge port temperature exceeds the specified value
			Detection time	More than 0.01 seconds

POSSIBLE CAUSE

- Overheating of the quick charge port
- Harness and connector (Quick charge port temperature sensor 1 and 2 circuits)
- Quick charge port temperature sensor 1
- Quick charge port temperature sensor 2
- VCM

FAIL-SAFE

Not applicable

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If an operation is performed, wait an additional 5 minutes from that time.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch OFF.
2. Connect the quick charger coupler to the quick charge port.
3. Perform quick charge (charging using the quick charger) for at least 10 seconds.
4. Power switch ON and wait at least 10 seconds.
5. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. PERFORM CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Power switch ON.
2. Erase DTC.
3. Power switch OFF.
4. Perform DTC confirmation procedure again with a different quick charger than the quick charger that was used when performing the DTC confirmation procedure the previous time. Refer to [Confirmation Procedure](#).

Is DTC P1638-F9 detected again?

YES>>

[GO TO 2](#)

NO>>

INSPECTION END (Quick charger malfunction)

2. CHECK QUICK CHARGE PORT TEMPERATURE SENSOR CIRCUIT

Check quick charge port temperature sensor circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#)

NO>>

Repair or replace error-detected parts.

3. TROUBLE CAUSE SIMULATION TEST

Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

Is the inspection result normal?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

Repair or replace error-detected parts.