

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 OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detecting condition | |
|-------|----|------------------------------|-------------------------|--|
| P172B | 64 | Battery pack pressure sensor | Diagnosis condition | READY |
| | | | Signal | Battery pack pressure sensor 1 and 2 signals |
| | | | Threshold | Difference between battery pack pressure sensor 1 value and battery pack pressure sensor 2 value exceeds the specified value |
| | | | Detection time | More than 5 seconds |

POSSIBLE CAUSE

- Harness and connector (Battery pack pressure sensor 1 and 2 signal circuits)
- Battery pack pressure sensor 1
- Battery pack pressure sensor 2

FAIL-SAFE

Not applicable

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. Set the vehicle to READY and wait at least 10 seconds.
2. 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. CHECK BATTERY PACK PRESSURE SENSOR 1 AND 2 CIRCUITS

Check battery pack pressure sensor 1 and 2 circuits. Refer to [Diagnosis Procedure](#)(66kWh LI-ION BATTERY), [Diagnosis Procedure](#)(91kWh LI-ION BATTERY).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

DTC Description

| DTC | | CONSULT screen terms | DTC detecting condition | |
|-------|----|------------------------------|-------------------------|---|
| P172C | 00 | Battery pack pressure sensor | Diagnosis condition | Always |
| | | | Signal | Battery pack pressure sensor 1 signal |
| | | | Threshold | A opening in battery pack pressure sensor 1 circuit is detected |
| | | | Detection time | More than 1 second |

POSSIBLE CAUSE

- Battery pack pressure sensor 1
- Harness and connector (Battery pack pressure sensor 1 circuit is open or shorted to ground)

FAIL-SAFE

Not applicable

1. CHECK DTC PRIORITY

If DTC P172C-00 is displayed with P0A7E-F1, first perform the trouble diagnosis for P0A7E-F1.

Is applicable DTC detected?

YES>>

Perform trouble diagnosis for applicable DTC. Refer to [DTC Description](#).

NO>>

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2. 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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3. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. 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. CHECK DTC PRIORITY

If DTC P172C-00 is displayed with P0A7E-F1, first perform the trouble diagnosis for P0A7E-F1.

Is applicable DTC detected?

YES>>

Perform trouble diagnosis for applicable DTC. Refer to [DTC Description](#).

NO>>

[GO TO 2.](#)

2. CHECK BATTERY PACK PRESSURE SENSOR 1

Check battery pack pressure sensor 1. Refer to [Diagnosis Procedure](#) (66kWh Li-ion Battery) or [Diagnosis Procedure](#) (91kWh Li-ion Battery).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

DTC DETECTION LOGIC

| DTC | | CONSULT screen terms | DTC detecting condition | |
|-------|----|------------------------------|-------------------------|--|
| P172C | 96 | Battery pack pressure sensor | Diagnosis condition | Always |
| | | | Signal | Battery pack pressure sensor 1 signal |
| | | | Threshold | A malfunction signal from battery pack pressure sensor 1 is received |
| | | | Detection time | More than 1 second |

POSSIBLE CAUSE

Battery pack pressure sensor 1

FAIL-SAFE

Not applicable

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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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. 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. CHECK BATTERY PACK PRESSURE SENSOR 1

Check battery pack pressure sensor 1. Refer to [Diagnosis Procedure](#)(66kWh LI-ION BATTERY), [Diagnosis Procedure](#)(91kWh LI-ION BATTERY).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample