

Your Ultimate Source for OEM Repair Manuals

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2011 NISSAN Pixo OEM Service and Repair Workshop Manual

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1. PERFORM CONFIRMATION PROCEDURE AGAIN

1. Erase DTC.

2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P1035-49 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P14C1	00	Stop lamp switch (BCM)	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	A stop lamp switch malfunction signal from BCM is received
			Detection time	—

POSSIBLE CAUSE

- Harness and connector (Stop lamp switch circuit)
- Stop lamp switch

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. Power switch ON.
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. PERFORM SELF-DIAGNOSIS OF BCM

 With CONSULT

Check self-diagnostic result in “BCM”.

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	
P15BE	96	Service plug interlock	Diagnosis condition	Always
			Signal	Service plug interlock detection signal
			Threshold	A non-interlock of the service plug is detected
			Detection time	—

POSSIBLE CAUSE

- Harness and connector (Service plug circuit)
- Service plug
- VCM
- Li-ion battery

FAIL-SAFE

High-voltage system is normally stopped (When vehicle is stopped)

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 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

CAUTION:

Hybrid vehicles and electric vehicles equipped with high voltage batteries may cause an electric shock or a short circuit if handled in an inappropriate way. When you inspect and service a vehicle, follow the work procedure and perform the correct tasks.

WARNING:

- When you inspect and service the high voltage wiring harnesses and components, make sure to remove the service plug in order to shut off the high voltage circuit.
- When you have removed the service plug, be sure to carry it in your pocket, or store it in the tool box in order to keep someone from accidentally connecting it during work.
- When performing high voltage system operation, be sure to wear insulating protective equipment.
- During tasks involving high voltage systems, clarify a person in charge of the tasks and do not let others touch the vehicle. When the vehicle is not being serviced, use protective items such as an electric-proof cover sheet for covering the high voltage components so as to keep someone from accidentally touching the vehicle.
- Refer to [HIGH VOLTAGE PRECAUTIONS : Precautions](#).

CAUTION:

- Setting the vehicle to the READY state with the service plug removed may cause malfunctioning. Avoid setting the vehicle to the READY state unless otherwise specified in the service manual.
- When you turned the power switch ON with the service plug removed, be sure to erase all the DTCs after trouble diagnosis.

1. CHECK CAN COMMUNICATION CIRCUIT

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

2. PERFORM SELF-DIAGNOSIS OF VCM

Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

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

NO>>

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3. PERFORM SELF-DIAGNOSIS OF LBC

Check self-diagnostic result in "HVBATTERY".

Is DTC detected other than P15BE-96?

YES>>

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

NO>>

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4. PRECONDITIONING

WARNING:

Follow the instructions below before starting the procedure.

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

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5. HECK SERVICE PLUG INSTALLATION CONDITION

Check service plug installation condition visually and tactually.

CAUTION:

When reconnecting the service plug, insert it slowly and directly.

Is the inspection result normal?

YES>>

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NO>>

Repair or replace error-detected parts.

6. CHECK SERVICE PLUG

1. Remove service plug.
2. Check service visually plug for damages.

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	
P1613	49	Internal circuit error	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An internal error in the VCM is detected
			Detection time	More than 2 seconds

POSSIBLE CAUSE

VCM

FAIL-SAFE

- Traction motor output is limited
- Traction motor output is cut