

Your Ultimate Source for OEM Repair Manuals

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2013 NISSAN Pixo OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P030A	62	Ignition A Control Signal	Diagnosis condition	At inverter (front) start or READY state
			Signal	Power SW signal
			Threshold	There was a difference between the power SW signal input by hard wire to the inverter (front) and the power SW signal which receives by CAN signal.
			Diagnosis delay time	Within 2 seconds

POSSIBLE CAUSE

- Wiring harness or connector (disconnection or short circuit in the power switch signal circuit)
- Power switch signal (CAN signal)
- Inverter (front)

FAIL-SAFE

1. PREPARATION BEFORE OPERATION

If another "Confirmation Procedure" was performed immediately before this task, always power switch OFF, exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter turns off before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the auto ACC function.

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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check the DTC.

Is "P030A-62 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. INSPECTION OF THE CAN COMMUNICATION

Inspect the CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace the malfunctioning parts.

2. INSPECTION OF THE HARNESS CONNECTOR

1. Power switch OFF.
2. Check mating conditions of the harness connector for the inverter (front).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace the malfunctioning parts.

3. INSPECTION OF THE CONNECTOR TERMINAL

1. Disconnect the harness connector of the inverter (front).
2. Check the inverter (front) connector for water intrusion, or damage or corrosion of the terminals.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Repair or replace the malfunctioning parts.

4. INSPECTION OF POWER SWITCH CIRCUIT 1

1. Power switch ON.
2. Check the voltage between the harness connector of the inverter (front) and the body ground.

+		-	Voltage
Inverter (front)			
Connector	Terminal		
F14	30	Body ground	9 – 16 V

Is the inspection result normal?

YES>>

[GO TO 8.](#)

NO>>

[GO TO 5.](#)

5. INSPECTION OF POWER SWITCH CIRCUIT 2

1. Power switch OFF.
2. Disconnect the IPDM E/R harness connector.
3. Check continuity between the IPDM E/R harness connector and inverter (front) harness connector.

IPDM E/R		Inverter (front)		Continuity
Connector	Terminal	Connector	Terminal	
E40	25	F14	30	Existed

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair or replace the malfunctioning parts.

6. INSPECTION OF POWER SWITCH CIRCUIT 3

Check continuity between the IPDM E/R harness connector and body ground.

IPDM E/R		-	Continuity
Connector	Terminal		
E40	25	Body ground	Not existed

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair or replace the malfunctioning parts.

7. INSPECTION OF POWER SWITCH CIRCUIT 4

Inspect the following items:

- Disconnection or short circuit in the wiring harness between the power switch and IPDM E/R
- 5A fuse (#144)

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Repair or replace the malfunctioning parts.

8. PERFORM THE DTC CONFIRMATION PROCEDURE

1. Connect the disconnected harness connector of the inverter (front).

2. Perform the DTC CONFIRMATION PROCEDURE. Refer to [Confirmation Procedure](#).

Is "P030A-62 detected?"

YES>>

Replace the inverter (front). Refer to [INVERTER \(FRONT\) : Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CC1	04	Drive Motor A Coolant Pump Control	Diagnosis condition	READY state
			Signal	Front traction motor oil pump signal
			Threshold	Error notification signal was received from the oil pump of the front traction motor.
			Diagnosis delay time	Within 10 seconds

POSSIBLE CAUSE

- Wiring harness or connector
(Disconnection or short circuit in the oil temperature sensor of the front traction motor)
(Disconnection or short circuit in the oil pump of the front traction motor)
- Front traction motor
(Oil temperature sensor of the front traction motor)
(Oil pump of the front traction motor)
- Inverter (front)

FAIL-SAFE

The driving torque of the front traction motor is limited to 30%.

1. PREPARATION BEFORE OPERATION

If another "Confirmation Procedure" was performed immediately before this task, always power switch OFF exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter turns off before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the auto ACC function.

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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0CC1-04 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 FOR DTC RELATED TO THE FRONT TRACTION MOTOR OIL TEMPERATURE SENSOR

 With CONSULT

1. Power switch ON.
2. Check "Self Diagnostic Result" of "MOTOR CONTROL".

Is DTC related to the front traction motor oil temperature sensor detected?

YES>>

Inspect the oil temperature sensor circuit of the front traction motor. Refer to [Diagnosis Procedure](#).

NO>>

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2. INSPECTION OF THE OIL PUMP CIRCUIT OF THE FRONT TRACTION MOTOR

Inspect the oil pump circuit of the front traction motor. Refer to [Diagnosis Procedure](#).

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INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CC1	81	Drive Motor A Coolant Pump Control	Diagnosis condition	READY state
			Signal	Front traction motor oil pump signal
			Threshold	Error notification signal was received from the oil pump of the front traction motor.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- Wiring harness or connector
(Disconnection or short circuit in the oil temperature sensor of the front traction motor)
(Disconnection or short circuit in the oil pump of the front traction motor)
- Front traction motor
(Oil temperature sensor of the front traction motor)
(Oil pump of the front traction motor)
- Inverter (front)

FAIL-SAFE