

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.

2013 NISSAN Juke OEM Service and Repair Workshop Manual

[Go to manual page](#)

1. REPLACEMENT OF THE INVERTER (REAR)

Replace the inverter (rear). Refer to [Removal and Installation](#).

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END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P2BD8	13	Motor Electronics Coolant Temperature Sensor B	Diagnosis condition	READY state
			Signal	Coolant temperature sensor signal
			Threshold	The coolant temperature sensor value deviated from the prescribed value
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Coolant temperature sensor circuit in the inverter (rear)

FAIL-SAFE

Send coolant temperature that cannot be used to VCM.

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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[GO TO 2.](#)

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 "P2BD8-13" 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. REPLACEMENT OF THE INVERTER (REAR)

Replace the inverter (rear). Refer to [Removal and Installation](#).

>>

END

CAUTION:

When installing the 12V battery into the vehicle, a DTC may be stored as a result of fluctuations in the voltage input into the inverter.

If a DTC remains in the past malfunctions, check the history of 12V battery removal and installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A8B	A2	14 Volt Power Module System Voltage	Diagnosis condition	At inverter (rear) start (power switch ON, READY state, or auto ACC ON state)
			Signal	—
			Threshold	Voltage supplied to the inverter (rear) by the 12V battery dropped below 9 V.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- 12V battery voltage drop
- Wiring harness or connector (disconnection or short circuit of 12V battery voltage supply circuit)
- Inverter (rear)

FAIL-SAFE

Control of the rear traction motor stops.

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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[GO TO 2.](#)

2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

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

Is "P0A8B-A2" 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 12V BATTERY

Inspect the 12V battery. Refer to [Work Flow](#).

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 (rear).

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 (rear).

2. Check the inverter (rear) 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 THE 12V BATTERY POWER SUPPLY CIRCUIT

1. Power switch ON.

2. Check the voltage between the harness connector terminals of the inverter (rear).

Inverter (rear)			Voltage
Connector	Terminal		
B297	18	4	9 – 16 V
	28	14	

Is the inspection result normal?

YES>>

Replace the inverter (rear). Refer to [Removal and Installation](#).

NO>>

[GO TO 5.](#)

5. INSPECTION OF THE GROUND CIRCUIT FOR THE INVERTER (REAR)

Check continuity between the harness connector of the inverter (rear) and the body ground.

Inverter (rear)		–	Continuity
Connector	Terminal		
B297	4	Body ground	Exsited
	14		

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair or replace the malfunctioning parts.

6. INSPECTION OF 12V BATTERY POWER SUPPLY CIRCUIT 2

Inspect the following items:

- Disconnection or short circuit in the wiring harness between harness connector terminals No. 18 and No. 28 between the 12V battery and the inverter (rear).
- 10A fuse (#93)

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Repair or replace the malfunctioning parts.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0C0E	01	Drive Motor B Inverter Power Supply	Diagnosis condition	At inverter (rear) start or READY state
			Signal	—
			Threshold	An error was detected related to the internal power supply of the inverter (rear).
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Inverter (rear)

FAIL-SAFE

Control of the rear traction motor stops. Or, the vehicle cannot be started (READY status cannot be achieved).