

Your Ultimate Source for OEM Repair Manuals

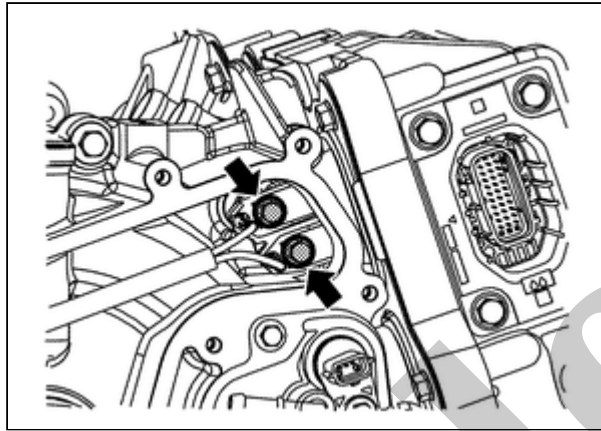
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2013 NISSAN Juke Nismo OEM Service and Repair Workshop Manual

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1. INSPECTION OF THE EXCITATION CIRCUIT

1. Remove the inverter (rear) and rear traction motor from the vehicle. Refer to [Removal and Installation](#).
2. Remove the excitation cover and inspect the connection conditions of the bus bar and excitation harness of the inverter (rear).



SIEMD-7437185-MD-7437185-01-000415418OnOff-
B15F7964-000415418

Is the inspection result normal?

YES>>

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NO>>

Repair or replace the malfunctioning parts.

2. 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	
P30E6	12	Drive Motor B Excitation Current	Diagnosis condition	READY state
			Signal	—
			Threshold	An excitation module error was detected.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Inverter (rear)

FAIL-SAFE

Control of the rear traction motor stops

Sample

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. Depress the accelerator pedal to increase the vehicle speed up to 10 km/h (6 MPH).
3. Stop the vehicle.
4. Check the DTC.

Is "P30E6-12" detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

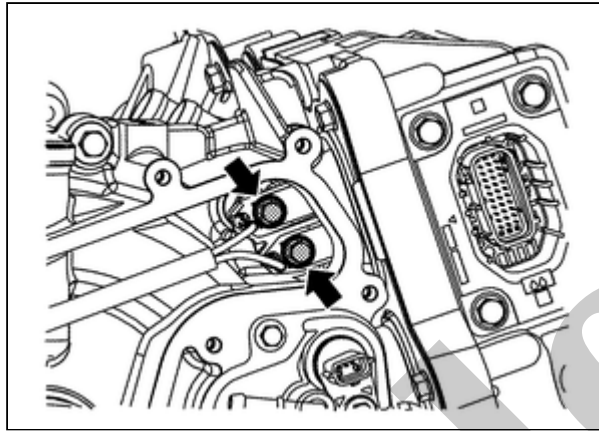
To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

1. INSPECTION OF THE EXCITATION CIRCUIT

1. Remove the inverter (rear) and rear traction motor from the vehicle. Refer to [Removal and Installation](#).
2. Remove the excitation cover and inspect the connection conditions of the bus bar and excitation harness of the inverter (rear).



SIEMD-7437188-MD-7437185-01-000415418OnOff-
B15F7964-000415418

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace the malfunctioning parts.

2. REPLACEMENT OF THE INVERTER (REAR)

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

>>

END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P30E6	1C	Drive Motor B Excitation Current	Diagnosis condition	At inverter (rear) start
			Signal	—
			Threshold	An excitation module error was detected.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Inverter (rear)

FAIL-SAFE

Control of the rear traction motor stops

Sample

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 "P30E6-1C" 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

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P2BD8	11	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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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

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

Is "P2BD8-11" 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