

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 Teana OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P2E28	18	Drive Motor A Excitation Current Sensor	Diagnosis condition	READY state
			Signal	—
			Threshold	Excitation module current is not flowing normally.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- Inverter (front)
- Front traction motor

FAIL-SAFE

Control of the front 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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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Increase the vehicle speed to 10 km/h (6 MPH).
3. Stop the vehicle.
4. Check the DTC.

Is "P2E28-18 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. DTC CHECK (MOTOR CONTROL)

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check "Self Diagnostic Result" under "MOTOR CONTROL".

Is a DTC P2E28-18 detected at the same time as another DTC?

YES>>

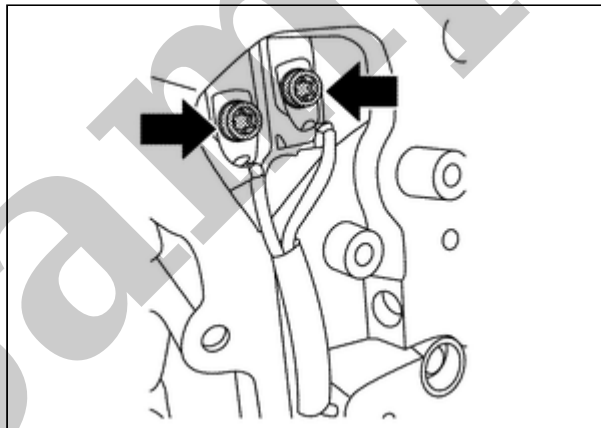
Check the DTC Inspection Priority Chart, and perform diagnosis for the DTC with the higher inspection priority. Refer to [DTC Inspection Priority Chart](#).

NO>>

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2. INSPECTION OF THE EXCITATION CIRCUIT

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



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Is the inspection result normal?

YES>>

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NO>>

Repair or replace the malfunctioning parts.

3. CHECK OF THE ROTOR COIL RESISTANCE VALUE AT THE FRONT TRACTION MOTOR

Check the rotor coil resistance value at the front traction motor. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

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

NO>>

Replace the front traction motor. Refer to [FRONT TRACTION MOTOR : Removal & Installation](#).

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P2E28	1D	Drive Motor A Excitation Current Sensor	Diagnosis condition	READY state
			Signal	—
			Threshold	Excitation module current is not flowing normally.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- Inverter (front)
- Front traction motor

FAIL-SAFE

—

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. Increase the vehicle speed to 10 km/h (6 MPH).
3. Stop the vehicle.
4. Check the DTC.

Is "P2E28-1D 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. DTC CHECK (MOTOR CONTROL)

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check "Self Diagnostic Result" under "MOTOR CONTROL".

Is a DTC P2E28-1D detected at the same time as another DTC?

YES>>

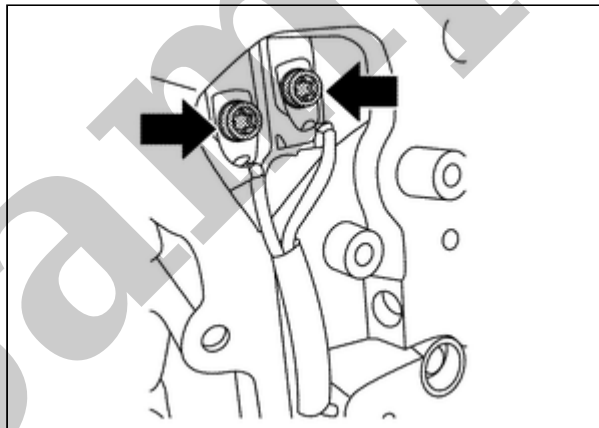
Check the DTC Inspection Priority Chart, and perform diagnosis for the DTC with the higher inspection priority. Refer to [DTC Inspection Priority Chart](#).

NO>>

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2. INSPECTION OF THE EXCITATION CIRCUIT

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



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Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace the malfunctioning parts.

3. CHECK OF THE ROTOR COIL RESISTANCE VALUE AT THE FRONT TRACTION MOTOR

Check the rotor coil resistance value at the front traction motor. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

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

NO>>

Replace the front traction motor. Refer to [FRONT TRACTION MOTOR : Removal & Installation.](#)

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CBC	11	Drive Motor A Coolant Temperature Sensor	Diagnosis condition	READY state
			Signal	Oil temperature sensor signal of the front traction motor
			Threshold	Disconnection or short circuit in the oil temperature sensor circuit 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 circuit of the front traction motor)
- Front traction motor (oil temperature sensor of the front traction motor)
- Inverter (front)

FAIL-SAFE