

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 Terrano OEM Service and Repair Workshop Manual

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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 "P0CBC-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

1. INSPECTION OF THE OIL TEMPERATURE SENSOR CIRCUIT OF THE FRONT TRACTION MOTOR

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

>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CBC	13	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

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 "P0CBC-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. INSPECTION OF THE OIL TEMPERATURE SENSOR CIRCUIT OF THE FRONT TRACTION MOTOR

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

>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CBC	4B	Drive Motor A Coolant Temperature Sensor	Diagnosis condition	READY state
			Signal	Oil temperature sensor signal of the front traction motor
			Threshold	Overheat error was detected at the front traction motor.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- Oil coolant system for front traction motor
- Leakage of front traction motor oil
- 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

The driving torque of the front traction motor is limited to 0 Nm.

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. Drive the vehicle for at least 20 minutes to warm it up.
3. Fully depress the accelerator pedal and accelerate the vehicle from 0 km/h (0 MPH) to 10 km/h (6 MPH). Repeat this for 10 times without interruption to the maximum extent possible.
4. Stop the vehicle.
5. Check the DTC.

Is "P0CBC-4B 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 HIGH VOLTAGE COOLING SYSTEM

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check "Self Diagnostic Result" of "EV/HEV".

Is a DTC related to the high voltage cooling system detected?

YES>>

Check the detected DTC item. Refer to [DTC Index](#).

NO>>

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2. INSPECTION OF COOLANT

Inspect the coolant volume and leakage of coolant. Refer to [COOLANT : Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace the malfunctioning parts.

3. INSPECTION OF THE COOLANT HOSE

Check for clogging or twisting of the hose of the oil coolant circuit for the front traction motor.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Repair or replace the malfunctioning parts.

4. INSPECTION FOR FRONT TRACTION MOTOR OIL

Check visually for leakage of the front traction motor oil.

Is the inspection result normal?

YES>>

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NO>>

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

5. INSPECTION OF THE OIL TEMPERATURE SENSOR

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

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INSPECTION END

Sample