

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 Rogue 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 to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0A3F-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. INSPECTION OF THE FRONT TRACTION MOTOR RESOLVER CIRCUIT

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

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INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A2A	11	Drive Motor A Temperature Sensor	Diagnosis condition	READY state
			Signal	Temperature sensor signal of front traction motor
			Threshold	Disconnection or short circuit in the front traction motor temperature sensor circuit
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

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

FAIL-SAFE

Send front traction motor temperature of 180°C (356°F) to the VCM.

1. PREPARATION BEFORE OPERATION

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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 "P0A2A-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 TEMPERATURE SENSOR CIRCUIT OF THE FRONT TRACTION MOTOR

Inspect the 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	
P0A2A	13	Drive Motor A Temperature Sensor	Diagnosis condition	READY state
			Signal	Temperature sensor signal of front traction motor
			Threshold	Disconnection or short circuit in the front traction motor temperature sensor circuit
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

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

FAIL-SAFE

Send front traction motor temperature of 180°C (356°F) to the 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. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0A2A-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 TEMPERATURE SENSOR CIRCUIT OF THE FRONT TRACTION MOTOR

Inspect the 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	
P0A2A	4B	Drive Motor A Temperature Sensor	Diagnosis condition	READY state
			Signal	—
			Threshold	Overheat error was detected at the front traction motor (stator).
			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 front traction motor temperature sensor circuit)
- Front traction motor (front traction motor temperature sensor)
- Inverter (front)

FAIL-SAFE

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