

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 Quest 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 "P0A1B-04 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 (FRONT)

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

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END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A1B	05	Drive Motor A Control Module	Diagnosis condition	READY state
			Signal	—
			Threshold	An error was detected related to the controller inside the inverter (front).
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Inverter (front)

FAIL-SAFE

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

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 "P0A1B-05 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 SYSTEM

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check the DTCs related to the high voltage system.

Is a DTC related to the high voltage system other than the inverter (front) detected?

YES>>

Check the detected DTC.

NO>>

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2. INSPECTION OF THE CAN COMMUNICATION CIRCUIT

Inspect the CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

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NO>>

Repair or replace the malfunctioning parts.

3. REPLACEMENT OF THE INVERTER (FRONT)

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

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END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A1B	44	Drive Motor A Control Module	Diagnosis condition	At inverter (front) start
			Signal	—
			Threshold	An error was detected at the data consistency check for the memory inside the inverter (front).
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- 12V battery was disconnected while writing of the resolver offset value and rotor resistance value was in progress.
- Inverter (front)

FAIL-SAFE

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

Is P0A1B-44 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 (FRONT)

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

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END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A51	01	Drive Motor A Current Sensor	Diagnosis condition	READY state
			Signal	—
			Threshold	Any of the following was detected. - The current sensor value deviated from the prescribed value. - The sum of the 3 phases currents deviated from the prescribed value.
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

Current sensor circuit in the inverter (front)

FAIL-SAFE

Control of the front traction motor stops.