

# 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 GT-R (R35) - Facelift OEM Service and Repair Workshop Manual

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**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	
P0A45	04	Drive Motor B Position Sensor	Diagnosis condition	At inverter (rear) start or READY state
			Signal	Rear traction motor resolver signal
			Threshold	An error was detected at the rear traction motor resolver system.
			Diagnosis delay time	Within 1 second

## POSSIBLE CAUSE

- Wiring harness or connector (disconnection or short circuit in the resolver circuit of the rear traction motor)
- Rear traction motor (traction motor resolver)
- Inverter (rear)

## FAIL-SAFE

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

## 1. PREPARATION BEFORE OPERATION

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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

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 With CONSULT

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

Is "P0A45-04" 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. INSPECTION OF THE REAR TRACTION MOTOR RESOLVER CIRCUIT

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Inspect the rear traction motor resolver circuit. Refer to [Component Inspection](#).

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INSPECTION END

Sample

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A45	1C	Drive Motor B Position Sensor	Diagnosis condition	READY state
			Signal	Rear traction motor resolver signal
			Threshold	An error was detected at the rear traction motor resolver system.
			Diagnosis delay time	Within 1 second

## POSSIBLE CAUSE

- Wiring harness or connector (Disconnection or short circuit in the resolver circuit of the rear traction motor)
- Rear traction motor (Traction motor resolver)
- Inverter (rear)

## FAIL-SAFE

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

## 1. PREPARATION BEFORE OPERATION

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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

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 With CONSULT

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

Is "P0A45-1C" 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 REAR TRACTION MOTOR RESOLVER CIRCUIT

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Inspect the rear traction motor resolver circuit. Refer to [Component Inspection](#).

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INSPECTION END

Sample

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0A30	11	Drive Motor B Temperature Sensor	Diagnosis condition	READY state
			Signal	Temperature sensor signal of rear traction motor
			Threshold	Disconnection or short circuit in the rear traction motor temperature sensor circuit
			Diagnosis delay time	Within 1 second

## POSSIBLE CAUSE

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

## FAIL-SAFE

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



## 1. PREPARATION BEFORE OPERATION

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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

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 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0A30-11" 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 REAR TRACTION MOTOR

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

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INSPECTION END

Sample