

Your Ultimate Source for OEM Repair Manuals

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2011 NISSAN NP300 Pickup Single Cab OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2470	87	CAN comm error (OBC)	Diagnosis condition	Power switch ON
			Signal	<ul style="list-style-type: none">• CAN communication signal• EV system CAN 2 circuit signal
			Threshold	Communication error
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

1. PRECONDITIONING

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 20 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC 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 CAN COMMUNICATION CIRCUIT

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P164B	64	Electric shift system	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	The shift target position and the actual position are not matching
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Harness and connector (Electric shift control module power supply circuit)
- Electric shift control module
- Parking actuator

FAIL-SAFE

P range is held or N range is indicated

1. PRECONDITIONING

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY.
2. Shift select lever to R⇒N⇒D⇒P ranges while depressing the brake pedal.

CAUTION:

Hold the the lever at each position for at least 15 seconds.

3. Check self-diagnostic result in “EV/HEV”.

Is DTC 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 DTC

 With CONSULT

Check self-diagnostic result in “HVBATTTERY”.

Is DTC detected other than P164B-64?

YES>>

Perform diagnosis for detected DTC.

NO>>

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2. PERFORM SELF-DIAGNOSIS OF ELECTRIC SHIFT CONTROL MODULE

 With CONSULT

Check self-diagnostic result in “SHIFT”.

Is DTC detected?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

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3. PERFORM CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Erase DTC.

2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P164B-64 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1695	87	Traction motor system	Diagnosis condition	READY
			Signal	—
			Threshold	Signal from inverter (front) cannot be received
			Detection time	More than 2 seconds

POSSIBLE CAUSE

Inverter (front)

FAIL-SAFE

Not applicable

Sample

1. PRECONDITIONING

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

CAUTION:

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

If an operation is performed, wait an additional 5 minutes from that time.

- **Check that 12V battery voltage is 11 V or more.**

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC 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 CAN COMMUNICATION CIRCUIT

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

2. CHECK DTC

 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is CAN error other than DTC P1695-87 detected?

YES>>

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NO>>

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3. REPLACE VCM

 With CONSULT

1. Replace VCM. Refer to [VCM : Removal & Installation](#).
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P1695-87 detected again?

YES>>

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

NO>>

INSPECTION END

4. REPLACE INVERTER (FRONT)

 With CONSULT

1. Replace inverter (front). Refer to [INVERTER \(FRONT\) : Removal & Installation](#).
2. Power switch ON and erase DTC.
3. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P1695-87 detected again?

YES>>