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.

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

Go to manual page

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2176	57	CAN communication error (chassis control module/steering angle sensor)	Diagnosis condition	—
			Signal	—
			Threshold	MAC communication error
			Detection time	—

POSSIBLE CAUSE

- MAC communication error

- VCM used in other vehicles is installed in the vehicle

- Chassis control module

FAIL-SAFE

Not applicable

1. CHECK DTC PRIORITY

If DTC U2176-57 is displayed with DTC U1327-52 or DTC U1327-54, first perform the trouble diagnosis for DTC U1327-52 or DTC U1327-54.

Is applicable DTC detected?

YES>>

Perform trouble diagnosis for applicable DTC.Refer to DTC Index.

NO>>

GO TO 2

2. PERFORM MAC DIAGNOSIS

With CONSULT

1. Power switch ON.

2. Perform "Self Diagnostic Result" of "EV/HEV" using CONSULT.

Is DTC U2176-57 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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC U2176-57 is displayed with DTC U1327-52 or DTC U1327-54, first perform the trouble diagnosis for DTC U1327-52 or DTC U1327-54.

Is applicable DTC detected?

YES >>

Perform trouble diagnosis for applicable DTC. Refer to DTC Index.

NO >>

GO TO 2

2. PERFORM MAC DIAGNOSIS

With CONSULT

Perform "Self Diagnostic Result" of "EV/HEV" using CONSULT.

Is DTC U2176-57 detected with DTC U214F-57, DTC U2152-57 and DTC U2165-57 at the same time?

YES (all DTC codes are detected at the same time)>>

Replace VCM. Refer to VCM : Removal & Installation.

NO (all DTC codes are not detected at the same time)>>

GO TO 3

3. 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.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2470	82	CAN comm error (OBC)	Diagnosis condition	Power switch ON
			Signal	• CAN communication signal • EV system CAN 2 circuit signal
			Threshold	CAN signal is stuck
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit
- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

Confirmation Procedure

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.**

>>

.

2. PERFORM DTC CONFIRMATION PROCEDURE

(H) 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 <u>Trouble Diagnosis Flow Chart</u>.

<u>Is the inspection result normal?</u>

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2470	86	CAN comm error (OBC)	Diagnosis condition	Power switch ON
			Signal	• CAN communication signal • EV system CAN 2 circuit signal
			Threshold	CAN signal is transformed
			Detection time	2 seconds

POSSIBLE CAUSE

- CAN communication circuit

- Drivetrain CAN communication 2 circuit

FAIL-SAFE

Not applicable

Confirmation Procedure

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.**

\>\>

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 <u>Trouble Diagnosis Flow Chart</u>.

<u>Is the inspection result normal?</u>

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.