

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.

2010 NISSAN Titan Crew Cab OEM Service and Repair Workshop Manual

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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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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Depress the brake pedal and then release the brake pedal after holding it for at least 5 seconds.
3. Repeat step 2 several times.
4. 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 STOP LAMP SWITCH SIGNAL

1. On the CONSULT screen, select “EV/HEV” >> “DATA MONITOR MODE” >> “Stop lamp switch (BNO)” and “Stop lamp switch (BNC)”.
2. Check that the status of “Stop lamp switch (BNO)” and “Stop lamp switch (BNC)” are displayed as below.

Monitor item	Measuring condition		Status
Stop lamp switch (BNO)	Power ON	Brake pedal: Depressed	On
		Brake pedal: Fully released	Off
Stop lamp switch (BNC)	Power ON	Brake pedal: Depressed	Off
		Brake pedal: Fully released	On

Is the inspection result normal?

YES>>

INSPECTION END

NO-1>>

“Stop lamp switch (BNO)” is malfunctioning: [GO TO 2.](#)

NO-2>>

“Stop lamp switch (BNC)” is malfunctioning: [GO TO 3.](#)

2. CHECK BCM STOP LAMP SWITCH CIRCUIT

Check BCM stop lamp switch circuit. Refer to [Diagnosis Procedure](#).

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INSPECTION END

3. CHECK VCM STOP LAMP SWITCH CIRCUIT

Check VCM stop lamp switch circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

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

NO>>

Repair or replace error-detected parts.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15FA	11	Charge port lock	Diagnosis condition	Always
			Signal	Charge connector lock actuator (+) signal
			Threshold	A short to ground in the charge connector lock actuator (+) signal circuit is detected
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Harness and connector (The charge connector lock actuator (+) signal circuit is shorted to ground)
- Charge connector lock actuator

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited

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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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Turn 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 CHARGE CONNECTOR LOCK ACTUATOR CIRCUIT

Check charge connector lock actuator circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

2. CHECK VCM OUTPUT SIGNAL

1. Reinstall removed parts and connectors.

2. Check the output signals at VCM connector number 94 and connector number 95. Refer to [Physical Values](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15FA	12	Charge port lock	Diagnosis condition	Always
			Signal	Charge connector lock actuator (+) signal
			Threshold	A short to power supply in the charge connector lock actuator (+) signal circuit is detected
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Harness and connector (The charge connector lock actuator (+) signal circuit is shorted to power supply)
- Charge connector lock actuator

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited

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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[GO TO 2](#) .

2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Turn 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 CHARGE CONNECTOR LOCK ACTUATOR CIRCUIT

Check charge connector lock actuator circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2](#) .

NO>>

Repair or replace error-detected parts.

2. CHECK VCM OUTPUT SIGNAL

1. Reinstall removed parts and connectors.

2. Check the output signals at VCM connector number 94 and connector number 95. Refer to [Physical Values](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15FA	13	Charge port lock	Diagnosis condition	Always
			Signal	Charge connector lock actuator (+) signal
			Threshold	An opening in the charge connector lock actuator (+) signal circuit is detected
			Detection time	More than 2 seconds

POSSIBLE CAUSE

- Harness and connector (The charge connector lock actuator (+) signal circuit is open)
- Charge connector lock actuator

FAIL-SAFE

- Quick charge is prohibited
- Normal charge is prohibited