

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 King 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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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	
P15FE	16	Charge port lock	Diagnosis condition	Always
			Signal	—
			Threshold	The detected value of the normal charge connector lock position sensor is less than the specified value
			Detection time	More than 1 second

POSSIBLE CAUSE

- Harness and connector (The normal charge connector lock position sensor circuit is open or shorted)
- Normal charge connector lock position sensor
- VCM

FAIL-SAFE

Quick charge is prohibited

1. PRECONDITIONING

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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-1

 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>>

[GO TO 3.](#)

3. PERFORM DTC CONFIRMATION PROCEDURE-2

 With CONSULT

1. Turn power switch OFF.
2. Perform normal charge and wait at least 10 seconds.
3. Turn power switch ON.
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

Sample

1. CHECK CHARGE PORT

Check charge port. Refer to [CHARGE PORT : Periodic Maintenance Operation](#).

Is the inspection result normal?

YES>>

[GO TO 2](#)

NO>>

Repair or replace error-detected parts.

2. CHECK CHARGE CONNECTOR LOCK STATUS DETECTION SIGNAL CIRCUIT

Check charge connector lock status detection signal circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace error-detected parts.

3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

1. Turn power switch ON.
2. Erase DTC.
3. Turn power switch OFF.
4. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC detected again?

YES>>

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

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P15FE	17	Charge port lock	Diagnosis condition	Always
			Signal	—
			Threshold	The detected value of the normal charge connector lock position sensor exceeds the specified value
			Detection time	More than 1 second

POSSIBLE CAUSE

- Harness and connector (The normal charge connector lock position sensor circuit is open or shorted)
- Normal charge connector lock position sensor
- VCM

FAIL-SAFE

Quick charge is prohibited

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

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2. PERFORM DTC CONFIRMATION PROCEDURE-1

 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>>

[GO TO 3](#) .

3. PERFORM DTC CONFIRMATION PROCEDURE-2

 With CONSULT

1. Turn power switch OFF.
2. Perform normal charge and wait at least 10 seconds.
3. Turn power switch ON.
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

Sample