

# 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 Titan Crew Cab OEM Service and Repair Workshop Manual

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## 1. PRECONDITIONING

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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

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 With CONSULT

1. Power switch ON.
2. Depress the brake pedal and hold it for at least 1 second.
3. Release the brake pedal and hold it for at least 1 second.
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 ACCELERATOR PEDAL POSITION SENSOR CIRCUIT

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Check accelerator pedal position sensor circuit. Refer to [Diagnosis Procedure](#).

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	
P0697	16	Sensor reference voltage C	Diagnosis condition	Power switch ON
			Signal	Refrigerant pressure sensor power supply signal
			Threshold	The refrigerant pressure sensor power supply signal voltage is less than the specified value
			Detection time	More than 1 second

## POSSIBLE CAUSE

- Harness and connector (Refrigerant pressure sensor power supply circuit)
- VCM

## FAIL-SAFE

- Traction motor output is limited
- Quick charge is prohibited
- Normal charge is prohibited
- Traction motor output is cut
- High-voltage system is normally stopped
- High-voltage system is suddenly stopped
- A/C control is stopped

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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Confirmation after repair: INSPECTION END

## 1. CHECK REFRIGERANT PRESSURE SENSOR POWER SUPPLY

1. Power switch OFF.
2. Disconnect refrigerant pressure sensor harness connector.
3. Power switch ON.
4. Check voltage between refrigerant pressure sensor harness connector and ground.

+		-	Voltage
Refrigerant pressure sensor			
Connector	Terminal	Ground	Approximately 5V
B184	3		

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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## 2. CHECK REFRIGERANT PRESSURE SENSOR POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Remove VCM harness connector.
3. Check for continuation between refrigerant pressure sensor harness connector and VCM harness connector.

+		-		Continuation
Refrigerant pressure sensor		VCM		
Connector	Terminal	Connector	Terminal	Existing
B184	3	E48	145	

4. Also check harness for short to power supply.

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	
P0697	17	Sensor reference voltage C	Diagnosis condition	Power switch ON
			Signal	Refrigerant pressure sensor power supply signal
			Threshold	The refrigerant pressure sensor power supply maximum voltage is more than the specified value
			Detection time	More than 1 second

## POSSIBLE CAUSE

- Harness and connector (Refrigerant pressure sensor power supply circuit)
- VCM

## FAIL-SAFE

- Traction motor output is limited
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Confirmation after repair: INSPECTION END



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Refrigerant pressure sensor			
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Refrigerant pressure sensor		VCM		
Connector	Terminal	Connector	Terminal	Existing
B184	3	E48	145	

4. Also check harness for short to power supply.

Is the inspection result normal?

YES>>

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

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Repair or replace error-detected parts.

**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
P05B1	02	Active grille air shutter B	Diagnosis condition	Power switch ON
			Signal	LIN communication signal (Active grille shutter 2)
			Threshold	When signal from active grille shutter 2 cannot be received
			Detection time	More than 2 seconds

**POSSIBLE CAUSE**

- LIN communication line (Circuit between Active grille shutter 2 and VCM)
- Active grille shutter 2

**FAIL-SAFE**

Not applicable