

# Your Ultimate Source for OEM Repair Manuals

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## 2012 NISSAN Titan King Cab OEM Service and Repair Workshop Manual

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## 1. CHECK ACTIVE GRILLE SHUTTER 2

### With CONSULT

1. Set the vehicle to READY.
2. Select “Active grille shutter 2” in “ACTIVE TEST MODE” of “EV/HEV” using CONSULT.
3. Touch “Position adjustment”.
4. After calibration is finished, check the active grille shutter 2 operation under the conditions below.

Condition	Active grille shutter 2
Select “Close”	Open ⇒ Closed
Select “Open”	Closed ⇒ Open

### Without CONSULT

1. Power switch OFF.
2. Set the shutter to a closed state by hand.
3. Check the active grille shutter 2 operation under the condition below.

Condition	Active grille shutter 2
Power switch ON	Closed ⇒ Open

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace active grille shutter. Refer to [Removal & Installation](#).

## 1. CHECK CHARGE PORT LID ACTUATOR FUNCTION-1

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1. Close the charge port lid.
2. Unlock the doors.

Can the charge port lid be opened?

YES>>

[GO TO 2.](#)

NO>>

Refer to [Diagnosis Procedure](#).

## 2. CHECK CHARGE PORT LID ACTUATOR FUNCTION-2

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Lock the doors from outside of the vehicle.

Can the charge port lid be opened?

YES>>

Refer to [Diagnosis Procedure](#).

NO>>

INSPECTION END

## 1. CHECK CHARGE PORT LID ACTUATOR CIRCUIT

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1. Power switch OFF.
2. Disconnect VCM harness connector and charge port lid actuator harness connector.
3. Check for continuation between the VCM harness connector and the charge port lid actuator harness connector.

+		-		Continuity
VCM		Charge port lid actuator		
Connector	Terminal	Connector	Terminal	
E47	74	E4	1	Existing
	85		2	

4. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

## 2. CHECK CHARGE PORT LID ACTUATOR

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Check charge port lid actuator. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

## 1. CHECK CHARGE PORT LID ACTUATOR

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1. Power switch OFF.
2. Remove charge port lid lock assembly. Refer to [Removal & Installation](#).
3. Apply 12 V between charge port lid actuator connector terminals and check that the charge port lid actuator is operating.

**CAUTION:**

- Do not cause a short between the terminals.
- Insert a fuse between the terminals when applying voltage.

Charge port lid actuator		Condition	Status
+ (Fuse)	-		
Terminal			
1	2	When 12 V is applied between number 1 and 2 terminals	Charge port lid actuator is operating
2	1	When 12 V is applied between number 2 and 1 terminals	

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace charge port lid lock assembly. Refer to [Removal & Installation](#).

## 1. CHECK PRE-CHARGE RELAY GROUND CIRCUIT

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1. Power switch OFF.
2. Disconnect Li-ion battery harness connector.
3. Disconnect VCM harness connector.
4. Check for continuation between the Li-ion battery harness connector and the VCM harness connector.

Li-ion battery		VCM		Continuity
Connector	Terminal	Connector	Terminal	
E9	14	E47	72	Existing

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

## 1. CHECK CHARGING STATUS INDICATOR FUNCTION

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1. Connect the quick charge coupler or the normal charge coupler to the vehicle.
2. Check that the charging port light lights up.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Refer to [Diagnosis Procedure](#).

Sample

## 1. CHECK CHARGING STATUS INDICATOR POWER SUPPLY

---

1. Power switch OFF.
2. Disconnect charging status indicator harness connector.
3. Check voltage between the charging status indicator harness connector and ground.

+		-	Voltage
Charging status indicator			
Connector	Terminal		
M28	1	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 2.](#)

## 2. CHECK FUSE

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Remove fuse #27 and check that it is not blown.

Is the inspection result normal?

YES>>

[GO TO 3](#)

NO>>

Replace the fuse after repairing the applicable circuit.

## 3. CHECK CHARGING STATUS INDICATOR POWER SUPPLY CIRCUIT

---

1. Check for continuation between the charging status indicator harness connector and fuse terminal.

+		-	Continuity
Charging status indicator			
Connector	Terminal		
M28	1	#27 fuse terminal	Existing

2. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

Check power supply circuit.

NO>>

Repair or replace error-detected parts.



## 4. CHECK CHARGING STATUS INDICATOR GROUND CIRCUIT

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Check for continuation between the charging status indicator harness connector and ground.

+		-	Continuity
Charging status indicator			
Connector	Terminal		
M28	3	Ground	Existing

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Repair or replace error-detected parts.

## 5. CHECK CHARGING STATUS INDICATOR CONTROL CIRCUIT

---

1. Disconnect VCM harness connector.
2. Check for continuation between the charging status indicator harness connector and the VCM harness connector.

+		-		Continuity
Charging status indicator		VCM		
Connector	Terminal	Connector	Terminal	
M28	2	E47	41	Existing

3. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair or replace error-detected parts.

## 6. TROUBLE CAUSE SIMULATION TEST

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Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

Is the inspection result normal?

YES>>

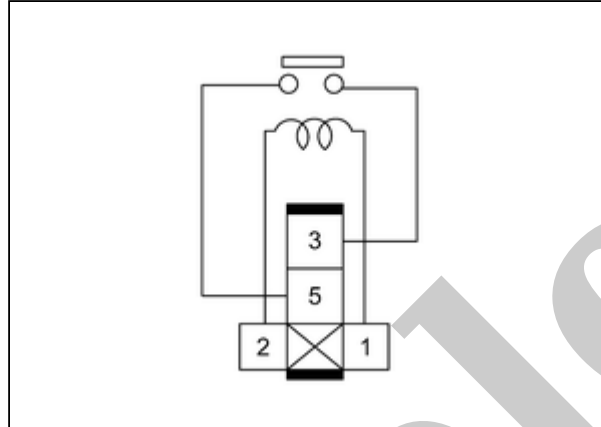
Replace charging status indicator. Refer to [CHARGING STATUS INDICATOR : Removal & Installation](#).

NO>>

Repair or replace error-detected parts.

## 1. CHECK ELECTRIC WATER PUMP RELAY

1. Power switch OFF.
2. Remove electric water pump relay.
3. Check the electric water pump relay under the conditions below.



SIEMD-7108648-02-000314821

Terminal	Condition	Continuity
5-3	When 12 V battery voltage is applied between terminals 1 and 2	Existing
	When 12 V battery voltage is not applied	Non-existing

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace electric water pump relay.