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2012 NISSAN Titan Crew Cab OEM Service and Repair Workshop Manual

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YES>>

[GO TO 4.](#)

NO>>

[GO TO 5.](#)

4. CHECK ELECTRIC WATER PUMP 2 GROUND CIRCUIT

1. Power switch OFF.
2. Check for continuation between the electric water pump 2 harness connector and ground.

+		-	Continuity
Electric water pump 2			
Connector	Terminal		
F11	1	Ground	Existing

Is the inspection result normal?

YES>>

Replace electric water pump 2. Refer to [ELECTRIC WATER PUMP : Removal & Installation.](#)

NO>>

Repair or replace error-detected parts.

5. CHECK ELECTRIC WATER PUMP 2 POWER SUPPLY CIRCUIT-1

1. Power switch OFF.
2. Remove fuse #95.
3. Check for continuation between fuse #95 and the electric water pump 2 harness connector.

+	-		Continuity
	Electric water pump 2		
	Connector	Terminal	
Fuse #95 terminal (Electric water pump 2 side)	F11	3	Existing

4. 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. CHECK ELECTRIC WATER PUMP 2 POWER SUPPLY CIRCUIT-2

1. Remove electric water pump relay.
2. Check for continuation between fuse #95 and the electric water pump relay harness connector.

+	-		Continuity
	Electric water pump relay		
	Connector	Terminal	
Fuse #95 terminal (Electric water pump relay side)	E129	5	Existing

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

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair or replace error-detected parts.

7. CHECK 12 V BATTERY POWER SUPPLY-1

Check voltage between the electric water pump relay harness connector and ground.

+		-	Voltage
Electric water pump relay			
Connector	Terminal		
E129	1	Ground	12 V battery voltage
	3		

Is the inspection result normal?

YES>>

[GO TO 11.](#)

NO>>

[GO TO 8.](#)

8. CHECK FUSIBLE LINK

1. Remove fusible link #S.

2. Check that the fusible link is not blown.

Is the inspection result normal? ?

YES>>

[GO TO 9.](#)

NO>>

Replace the fusible link after repairing the applicable circuit.

9. CHECK 12 V BATTERY POWER SUPPLY-2

Check voltage between fusible link terminal and ground.

+	-	Voltage
Fusible link #S (Battery side)	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 10.](#)

NO>>

Check power supply circuit.

10. CHECK 12 V BATTERY POWER SUPPLY CIRCUIT

1. Check for continuation between fusible link terminal and the electric water pump relay harness connector.

+	-		Continuity
	Electric water pump relay		
	Connector	Terminal	
Fusible link #S terminal (Relay side)	E129	1	Existing
		3	

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

Is the inspection result normal?

YES>>

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

NO>>

Repair or replace error-detected parts.

11. CHECK ELECTRIC WATER PUMP RELAY

Check electric water pump relay. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 12.](#)

NO>>

Replace electric water pump relay.

12. CHECK ELECTRIC WATER PUMP RELAY CONTROL CIRCUIT

1. Disconnect VCM harness connector.
2. Check for continuation between the electric water pump relay harness connector and the VCM harness connector.

+		-		Continuity
Electric water pump relay		VCM		
Connector	Terminal	Connector	Terminal	
E129	2	E47	46	Existing

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

Is the inspection result normal?

YES>>

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

NO>>

Repair or replace error-detected parts.

Sample

1. CHECK ACTIVE GRILLE SHUTTER 1 STATE

1. Power switch OFF.
2. Check active grille shutter 1 for operation interference from foreign matter.
3. Check active grille shutter 1 installation condition.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

2. CHECK ACTIVE GRILLE SHUTTER 1 POWER SUPPLY

1. Disconnect active grille shutter 1 harness connector.
2. Check voltage between the active grille shutter 1 harness connector and ground.

+		-	Voltage
Active grille shutter 1			
Connector	Terminal		
E60	1	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 3.](#)

3. CHECK FUSE

1. Remove fuse #105.
2. Check that the fuse is not blown.

Is the inspection result normal?

YES>>

Check battery power supply circuit.

NO>>

Replace the fuse after repairing the applicable circuit.

4. CHECK ACTIVE GRILLER SHUTTER 1 GROUND CIRCUIT

1. Check for continuation between the active grille shutter 1 harness connector and ground.

+		-	Continuity
Active grille shutter 1			
Connector	Terminal		
E60	4	Ground	Existing

2. Also check harness for short.

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Repair or replace error-detected parts.

5. CHECK ACTIVE GRILLE SHUTTER 1 INPUT SIGNAL CIRCUIT

1. Disconnect VCM harness connector.

2. Check for continuation between the VCM harness connector and the active grille shutter 1 harness connector.

+		-		Continuity
VCM		Active grille shutter 1		
Connector	Terminal	Connector	Terminal	
E48	99	E60	3	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. CHECK ACTIVE GRILLE SHUTTER 1

Check active grille shutter 1. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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

1. CHECK ACTIVE GRILLE SHUTTER 1

With CONSULT

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

Condition	Active grille shutter 1
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 1 operation under the condition below.

Condition	Active grille shutter 1
Power switch ON	Closed ⇒ Open

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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

1. CHECK ACTIVE GRILLE SHUTTER 2 STATE

1. Power switch OFF.
2. Check active grille shutter 2 for operation interference from foreign matter.
3. Check active grille shutter 2 installation condition.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

2. CHECK ACTIVE GRILLE SHUTTER 2 POWER SUPPLY

1. Disconnect active grille shutter 2 harness connector.
2. Check voltage between the active grille shutter 2 harness connector and ground.

+		-	Voltage
Active grille shutter 2			
Connector	Terminal		
E61	1	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 3.](#)

3. CHECK FUSE

1. Remove fuse #105.
2. Check that the fuse is not blown.

Is the inspection result normal?

YES>>

Check battery power supply circuit.

NO>>

Replace the fuse after repairing the applicable circuit.

4. CHECK ACTIVE GRILLER SHUTTER 2 GROUND CIRCUIT

1. Check for continuation between the active grille shutter 2 harness connector and ground.

+		-	Continuity
Active grille shutter 2			
Connector	Terminal		
E61	4	Ground	Existing

2. Also check harness for short.

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

Repair or replace error-detected parts.

5. CHECK ACTIVE GRILLE SHUTTER 2 INPUT SIGNAL CIRCUIT

1. Disconnect VCM harness connector.

2. Check for continuation between the VCM harness connector and the active grille shutter 2 harness connector.

+		-		Continuity
VCM		Active grille shutter 2		
Connector	Terminal	Connector	Terminal	
E48	99	E61	3	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. CHECK ACTIVE GRILLE SHUTTER 2

Check active grille shutter 2. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

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