

Your Ultimate Source for OEM Repair Manuals

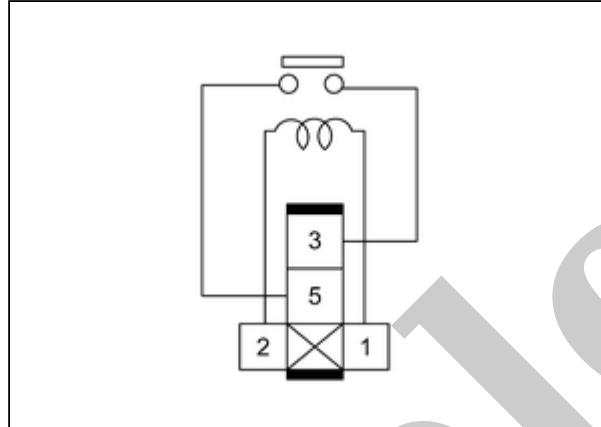
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2012 NISSAN Tiida/Versa OEM Service and Repair Workshop Manual

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1. CHECK 12 V MAIN RELAY

1. Power switch OFF.
2. Remove 12 V main relay.
3. Check the 12 V main relay under the conditions below.



SIEMD-7106242-01-000314821

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 12 V main relay.

1. CHECK 12 V BATTERY POWER SUPPLY-1

1. Power switch OFF.
2. Remove EV power relay.
3. Check voltage between the EV power relay harness connector and ground.

With ProPILOT Assist 2.0

+		-	Voltage
EV power relay			
Connector	Terminal		
E139	2	Ground	12 V battery voltage

Without ProPILOT Assist 2.0

+		-	Voltage
EV power relay			
Connector	Terminal		
E138	2	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

[GO TO 2.](#)

2. CHECK FUSIBLE LINK

1. Remove fusible link #O.
2. Check that the fusible link is not blown.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Replace the fusible link after repairing the applicable circuit.

3. CHECK 12 V BATTERY POWER SUPPLY-2

Check voltage between fusible link terminal and ground.

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

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Check power supply circuit.

4. CHECK 12 V BATTERY POWER SUPPLY CIRCUIT

1. Check for continuation between fusible link terminal and the EV power relay harness connector.

With ProPILOT Assist 2.0

+	-		Continuity
	EV power relay		
	Connector	Terminal	
Fusible link #O terminal (Relay side)	E139	2	Existing

Without ProPILOT Assist 2.0

+	-		Continuity
	EV power relay		
	Connector	Terminal	
Fusible link #O terminal (Relay side)	E138	2	Existing

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.

5. CHECK EV POWER RELAY

Check EV power relay. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Replace EV power relay.

6. CHECK EV POWER RELAY CONTROL CIRCUIT

1. Disconnect VCM harness connector.
2. Check for continuation between the EV power relay harness connector and the VCM harness connector.

With ProPILOT Assist 2.0

+		-		Continuity
EV power relay		VCM		
Connector	Terminal	Connector	Terminal	
E139	1	E47	46	Existing

Without ProPILOT Assist 2.0

+		-		Continuity
EV power relay		VCM		
Connector	Terminal	Connector	Terminal	
E138	1	E47	46	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 VCM GROUND CIRCUIT

Check for continuation between the VCM harness connector and ground.

+		-	Continuity
VCM			
Connector	Terminal		
E46	28	Ground	Existing
	29		
	32		

Is the inspection result normal?

YES>>

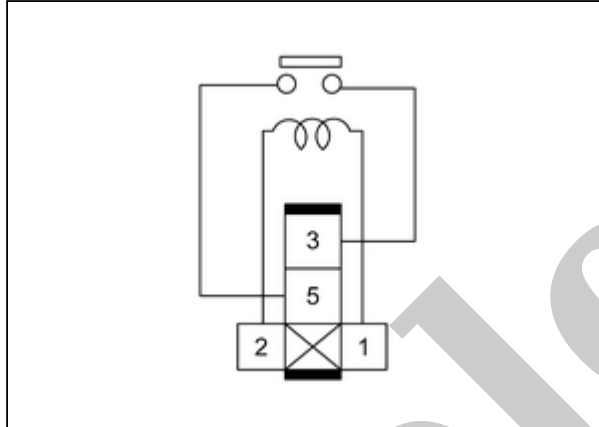
INSPECTION END

NO>>

Repair or replace error-detected parts.

1. CHECK EV POWER RELAY

1. Power switch OFF.
2. Remove EV power relay.
3. Check the EV power relay under the conditions below.



SIEMD-7108658-02-000314821

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 EV power relay.

1. CHECK STOP LAMP SWITCH INPUT SIGNAL

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Power switch ON.
4. Check voltage between the VCM harness connector and ground.

+		-	Voltage
VCM			
Connector	Terminal	Ground	12 V battery voltage
E46	20		

Is the inspection result normal?

YES>>

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

NO>>

[GO TO 2.](#)

2. CHECK STOP LAMP SWITCH POWER SUPPLY

1. Disconnect stop lamp switch harness connector.
2. Check voltage between the stop lamp switch harness connector and ground.

+		-	Voltage
Stop lamp switch			
Connector	Terminal	Ground	12 V battery voltage
E115	4		

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

[GO TO 3.](#)

3. CHECK FUSE

1. Power switch OFF.
2. Remove fuse # 39.
3. Check that the fuse is not blown.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Replace the fuse after repairing the applicable circuit.

4. CHECK STOP LAMP SWITCH POWER SUPPLY CIRCUIT

1. Check for continuation between fuse # 39 terminal and the stop lamp switch harness connector.

+	-		Continuity
	Stop lamp switch		
	Connector	Terminal	
Fuse # 39 terminal (Stop lamp switch side)	E115	4	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.

5. CHECK STOP LAMP SWITCH SIGNAL CIRCUIT

1. Check for continuation between the stop lamp switch harness connector and the VCM harness connector.

+		-		Continuity
Stop lamp switch		VCM		
Connector	Terminal	Connector	Terminal	
E115	3	E46	20	Existing

2. 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 STOP LAMP SWITCH

Check stop lamp switch. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

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

NO>>

Adjust or replace stop lamp switch.

Sample

1. CHECK STOP LAMP SWITCH-1

1. Power switch OFF.
2. Disconnect stop lamp switch harness connector.
3. Check for continuation between the stop lamp switch terminals under the conditions below.

Terminal	Condition		Continuity
3 and 4	Brake pedal	Depressed	Non-existing
		Fully released	Existing

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

[GO TO 2.](#)

2. CHECK STOP LAMP SWITCH-2

1. Adjust stop lamp switch. Refer to [BRAKE PEDAL : Periodic Maintenance Operation.](#)
2. Check for continuation between the stop lamp switch terminals under the conditions below.

Terminal	Condition		Continuity
3 and 4	Brake pedal	Depressed	Non-existing
		Fully released	Existing

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace stop lamp switch. Refer to [BRAKE PEDAL : Removal & Installation.](#)