Your Ultimate Source for OEM Repair Manuals

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2011 NISSAN Tiida/Versa Sedan OEM Service and Repair Workshop Manual

Go to manual page

SIEMD-7196803

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.**

>>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

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

SIEMD-7196804

1. CHECK ACCELERATOR PEDAL POSITION SENSOR 1 POWER SUPPLY

1. Power switch OFF.
2. Disconnect accelerator pedal position sensor harness connector.
3. Power switch ON.
4. Check voltage between accelerator pedal position sensor harness connector and ground.

+		−	Voltage
Accelerator pedal position sensor			
Connector	Terminal		
E8	3	Ground	Approximately 5V

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

GO TO 2.

2. CHECK ACCELERATOR PEDAL POSITION SENSOR 1 POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuation between accelerator pedal position sensor harness connector and VCM harness connector.

+		−		Continuation
Accelerator pedal position sensor		VCM		
Connector	Terminal	Connector	Terminal	
E8	3	E46	26	Existing

4. Also check harness for short to ground.

Is the inspection result normal?

YES>>

Replace VCM. Refer to VCM : Removal & Installation.

NO>>

Repair or replace error-detected parts.

SIEMD-7196805

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0641	17	Sensor reference voltage A	Diagnosis condition	Power switch ON
			Signal	Accelerator pedal position sensor 1 power supply signal
			Threshold	Accelerator pedal position sensor 1 power supply maximum voltage is more than the specified value
			Detection time	More than 1 second

POSSIBLE CAUSE

- Harness and connector (Accelerator pedal position sensor 1 power supply circuit)
- VCM

FAIL-SAFE

- Traction motor output is limited
- Traction motor output is cut

1. PRECONDITIONING

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GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

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

SIEMD-7196807

1. CHECK ACCELERATOR PEDAL POSITION SENSOR 1 POWER SUPPLY

1. Power switch OFF.
2. Disconnect accelerator pedal position sensor harness connector.
3. Power switch ON.
4. Check voltage between accelerator pedal position sensor harness connector and ground.

+		−	Voltage
Accelerator pedal position sensor			
Connector	Terminal		
E8	3	Ground	Approximately 5V

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

GO TO 2.

2. CHECK ACCELERATOR PEDAL POSITION SENSOR 1 POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuation between accelerator pedal position sensor harness connector and VCM harness connector.

+		−		Continuation
Accelerator pedal position sensor		VCM		
Connector	Terminal	Connector	Terminal	
E8	3	E46	26	Existing

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.

SIEMD-7196808

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0651	16	Sensor reference voltage B	Diagnosis condition	Power switch ON
			Signal	Accelerator pedal position sensor 2 power supply signal
			Threshold	Accelerator pedal position sensor 2 power supply signal voltage is less than the specified value
			Detection time	More than 1 second

POSSIBLE CAUSE

- Harness and connector (Accelerator pedal position sensor 2 power supply circuit)
- VCM

FAIL-SAFE

- Traction motor output is limited
- Traction motor output is cut

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:
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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.**

>>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

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

SIEMD-7196811

1. CHECK ACCELERATOR PEDAL POSITION SENSOR 2 POWER SUPPLY

1. Power switch OFF.
2. Disconnect accelerator pedal position sensor harness connector.
3. Power switch ON.
4. Check voltage between accelerator pedal position sensor harness connector and ground.

+		−	Voltage
Accelerator pedal position sensor			
Connector	Terminal		
E8	2	Ground	Approximately 5V

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

GO TO 2 .

2. CHECK ACCELERATOR PEDAL POSITION SENSOR 2 POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuation between accelerator pedal position sensor harness connector and VCM harness connector.

+		−		Continuation
Accelerator pedal position sensor		VCM		
Connector	Terminal	Connector	Terminal	
E8	2	E46	22	Existing

4. Also check harness for short to ground.

Is the inspection result normal?

YES>>

Replace VCM. Refer to VCM : Removal & Installation.

NO>>

Repair or replace error-detected parts.

SIEMD-7196812

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0651	17	Sensor reference voltage B	Diagnosis condition	Power switch ON
			Signal	Accelerator pedal position sensor 2 power supply signal
			Threshold	Accelerator pedal position sensor 2 power supply signal maximum voltage is more than the specified value
			Detection time	More than 1 second

POSSIBLE CAUSE

- Harness and connector (Accelerator pedal position sensor 2 power supply circuit)
- VCM

FAIL-SAFE

- Traction motor output is limited
- Traction motor output is cut