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2015 Nissan Versa Service and Repair Manual

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1. CHECK CIRCUIT OF PARKING ACTUATOR RELAY

1. Power switch OFF.
2. Remove the parking actuator relay. Refer to [Component Parts Location](#).
3. Check the continuity between parking actuator relay terminals.

| Parking actuator relay | | Continuity |
|------------------------|---|-------------|
| Terminal | | |
| 1 | 2 | Existed |
| 1 | 3 | Not existed |
| 2 | 5 | Not existed |

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Replace parking actuator relay.

2. CHECK OPERATION OF PARKING ACTUATOR RELAY

Check for continuity between the parking actuator relay terminals under the following conditions.

CAUTION:

- Never cause shorting between terminals.
- Incorporate a fuse between the terminals when applying voltage.

| Parking actuator relay | | Condition | Continuity |
|------------------------|---|---|-------------|
| Terminal | | | |
| 3 | 5 | Approximately 12 V voltage was applied between terminals 1 - 2 of the parking actuator relay. | Existed |
| | | Voltage is not applied between terminals 1 - 2 of the parking actuator relay. | Not existed |

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace parking actuator relay.

1. OPERATION INSPECTION OF SHIFT POSITION INDICATOR

1. Set the vehicle to READY.
2. Operate the selector lever.
3. Check that the selected shift position and the indication position of the shift position indicator in the combination meter match.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Refer to [Diagnosis Procedure](#).

Sample

1. PERFORM SELF-DIAGNOSIS (FOR ELECTRIC SHIFT CONTROL MODULE)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “SHIFT”.

Is any DTC detected?

YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. PERFORM SELF-DIAGNOSIS (FOR VCM)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “EV/HEV”.

Is any DTC detected?

YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 3.](#)

3. PERFORM SELF-DIAGNOSIS (FOR COMBINATION METER)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “COMBINATION METER”.

Is any DTC detected?

YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

Perform the trouble diagnosis for combination meter. Refer to [On Board Diagnosis Function](#).

1. OPERATION INSPECTION OF ELECTRIC SHIFT WARNING LAMP

Check that the electric shift warning lamp in combination meter turns ON for approx. 2 seconds after power switch ON.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Refer to [Diagnosis Procedure](#).

Sample

1. PERFORM SELF-DIAGNOSIS (FOR ELECTRIC SHIFT CONTROL MODULE)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “SHIFT”.

Is any DTC detected?

YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. PERFORM SELF-DIAGNOSIS (FOR VCM)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “EV/HEV”.

Is any DTC detected?


YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

1. Check input/output signals of VCM. Refer to [Physical Values](#).
2. If the inspection result is normal, [GO TO 3.](#)

3. PERFORM SELF-DIAGNOSIS (FOR COMBINATION METER)

 With CONSULT

1. Power switch to ON.
2. Perform self-diagnosis for “COMBINATION METER”.

Is any DTC detected?

YES>>

Perform trouble diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

Perform the trouble diagnosis for combination meter. Refer to [On Board Diagnosis Function](#).

1. CHECK 12V BATTERY

Check 12V battery. Refer to [Work Flow](#).

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace the error-detected parts.

2. CHECK BATTERY POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect electric shift control module harness connector.
3. Check the voltage between electric shift control module harness connector and ground.

| + | | - | Condition | Voltage |
|-------------------------------|----------|-------------------|-------------------------|-------------|
| Electric shift control module | | | | |
| Connector | Terminal | Ground | | |
| M202 | 8 | | Power switch: ON or ACC | 9 – 16 V |
| | | | Power switch: OFF | Approx. 0 V |
| M203 | 42 | | Power switch: ON or ACC | 9 – 16 V |
| | | Power switch: OFF | Approx. 0 V | |

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

[GO TO 4.](#)

3. CHECK POWER ON SIGNAL CIRCUIT

1. Power switch OFF.
2. Check the voltage between electric shift control module harness connector and ground.

| + | | - | Condition | Voltage |
|-------------------------------|----------|-------------------|------------------|----------|
| Electric shift control module | | | | |
| Connector | Terminal | Ground | | |
| M202 | 9 | | Power switch: ON | 9 – 16 V |
| | | Power switch: OFF | Approx. 0 V | |

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

[GO TO 5.](#)

4. DETECT MALFUNCTIONING ITEMS (FOR BATTERY POWER SUPPLY)

Check the following items:

- Harness for short or open between electric shift control module harness connector terminal 8 and fuse block (J/B) harness connector terminal 95
- Harness for short or open between electric shift control module harness connector terminal 42 and fuse block (J/B) harness connector terminal 132
- 10A fuse (#49)
- 10A fuse (#52)

Is the inspection result normal?

YES>>

Perform inspection of accessory power supply circuit. Refer to [Wiring Diagram](#).

NO>>

Repair or replace the error-detected parts.

5. DETECT MALFUNCTIONING ITEMS (FOR POWER ON SIGNAL)

Check the following items:

- Harness for short or open between electric shift control module harness connector terminal 9 and fuse block (J/B) harness connector terminal 91
- 10A fuse (#3)

Is the inspection result normal?

YES>>

Perform inspection of ON power supply circuit. Refer to [Wiring Diagram](#).

NO>>

Repair or replace the error-detected parts.

6. CHECK ELECTRIC SHIFT CONTROL MODULE GROUND CIRCUIT

1. Power switch OFF.
2. Check continuity between electric shift control module harness connector and ground.

| Electric shift control module | | — | Continuity |
|-------------------------------|----------|--------|------------|
| Connector | Terminal | | |
| M202 | 3 | Ground | Existed |
| | 4 | | |
| | 6 | | |
| M203 | 25 | | |

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace the error-detected parts.

Sample

- Use recommended gear oil only. Refer to [MAINTENANCE : Recommended Fluid and Lubricants](#).
- Never reuse reduction gear oil, once it has been drained.
- Check oil level or replace gear oil with vehicle on level surface.
- During removal or installation, keep inside of reduction gear unit clear of dust or dirt.
- Check for the correct installation status prior to removal or disassembly. If matching marks are required, be certain they never interfere with the function of the parts when applied.
- Gaskets, seals and O-rings should be replaced any time when the unit is disassembled.
- In principle, tighten bolts or nuts gradually in several steps working diagonally from inside to outside. If tightening sequence is specified, observe it.
- Never damage sliding surfaces and mating surfaces.
- When applying sealant, remove the old sealant from the mounting surface; then remove any moisture, oil, and foreign materials from the application and mounting surfaces.

Sample