

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.

2015 Nissan Rogue Select Service and Repair Manual

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1. PRECONDITIONING

If another DTC "Confirmation Procedure" was performed immediately before this task, make sure to OFF the power switch, exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter OFF before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.


**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

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2. CHECK FOR DTC DETECTION

 With CONSULT

1. Set the power switch to ON and wait at least 5 seconds.
2. Perform self-diagnosis for "SHIFT".
 - If more than one DTC is detected, also perform diagnosis based on the DTC Inspection Priority Chart (Refer to [DTC Inspection Priority Chart](#)).

Is "U18A2-86" 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

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 POWER ON SIGNAL 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			
M202	9	Ground	Power switch: ON	9 – 16 V
			Power switch: OFF	Approx. 0 V

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

[GO TO 4.](#)

3. 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>>

Replace the electric shift control module. Refer to [ELECTRIC SHIFT CONTROL MODULE : Removal & Installation](#).

NO>>

Repair or replace the error-detected parts.

4. DETECT MALFUNCTIONING ITEMS

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>>

[GO TO 5.](#)

NO>>

Repair or replace the error-detected parts.

5. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Power switch ON.
2. Press the P position switch to shift to the P position.
3. Erase self-diagnostic result for "SHIFT".
4. Perform self-diagnosis with DTC "Confirmation Procedure" again. Refer to [Confirmation Procedure](#).

Is "U18A2-86" detected?

YES>>

Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U18A2	87	CAN Communication Error (VCM)	Diagnosis condition	Power switch ON
			Signal (terminal)	CAN communication
			Threshold	Electric shift control module cannot transmit or receive CAN communication signals from VCM.
			Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
(Open or short-circuit of the CAN communication line)
- CAN bus of electric shift control module
- VCM

FAIL-SAFE

- In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
- In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.

1. PRECONDITIONING

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CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.

**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

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2. CHECK FOR DTC DETECTION

 With CONSULT

1. Set the power switch to ON and wait at least 5 seconds.
2. Perform self-diagnosis for "SHIFT".
 - If more than one DTC is detected, also perform diagnosis based on the DTC Inspection Priority Chart (Refer to [DTC Inspection Priority Chart](#)).

Is "U18A2-87" 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

DTC Diagnosis Procedure

SIEMD-7198873

For the trouble diagnosis procedure, Refer to [Trouble Diagnosis Flow Chart](#).

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U2118	87	CAN communication error (Intelligent Key)	Diagnosis condition	Power switch ON
			Signal (terminal)	CAN communication
			Threshold	Electric shift control module cannot transmit or receive CAN communication signals from Intelligent Key unit.
			Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
(Open or short-circuit of the CAN communication line)
- CAN bus of electric shift control module
- Intelligent Key unit

FAIL-SAFE

No impact to vehicle behavior

1. PRECONDITIONING

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CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.

**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

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2. CHECK FOR DTC DETECTION

 With CONSULT

1. Set the power switch to ON and wait at least 5 seconds.
2. Perform self-diagnosis for "SHIFT".
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Is "U2118-87" 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

DTC Diagnosis Procedure

SIEMD-7198876

For the trouble diagnosis procedure, Refer to [Trouble Diagnosis Flow Chart](#).

Sample