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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.

2020 NISSAN Rogue Sport Service and Repair Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F95	11	System BU func power supply circ (System backup function power supply circuit)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	—
			Threshold	When any of the following conditions occur <ul style="list-style-type: none"> • When the power supply voltage is abnormally high or low • Internal error of DC / DC converter • Internal error of power network separate relay • When the VCM could not receive the CAN communication signal
			Diagnosis delay time	Continues within 1 second to 20 seconds or more (depending on the threshold)

POSSIBLE CAUSE

- DC / DC converter
- Power network separate relay
- 12V sub battery (Li-on battery)
- CAN communication circuit
- 12V battery

FAIL-SAFE

The following system are cancelled.

- Lane keep function*
- Lane change support function
- Overtaking support function
- Route driving support function

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F95-11” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

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2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY, and then wait for 20 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C1F95-11” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F95-11” detected as the current malfunction?

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

Sample

1. CHECK DTC PRIORITY

If DTC “C1F95-11” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

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2. CHECK VCM SELF-DIAGNOSIS RESULTS

Check if “P0560-22”, “P15B8-87”, “P2504-21”, “P2504-22”, “U2357-04”, “U2357-62”, “U2357-81”, or “U2357-86” is detected in “Self Diagnostic Result” of “Side radar (Rear left)” or “EV/HEV”.

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts.

- P0560-22: Refer to [DTC Diagnosis Procedure](#).
- P15B8-87: Refer to [DTC Diagnosis Procedure](#).
- P2504-21: Refer to [DTC Diagnosis Procedure](#).
- P2504-22: Refer to [DTC Diagnosis Procedure](#).
- U2357-04: Refer to [DTC Diagnosis Procedure](#).
- U2357-62: Refer to [DTC Diagnosis Procedure](#).
- U2357-81: Refer to [DTC Diagnosis Procedure](#).
- U2357-86: Refer to [DTC Diagnosis Procedure](#).

NO>>

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3. CHECK POWER NETWORK SEPARATE RELAY SELF-DIAGNOSIS RESULTS

Check if “B23C0-04” is detected in “Self Diagnostic Result” of “PNS relay”.

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Diagnosis Procedure](#).

NO>>

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4. CHECK 12V SUB BATTERY (Li-ON BATTERY) SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in “Self Diagnostic Result” of “Li-ON 12V battery”.

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO>>

Perform "All DTC Reading" with CONSULT and delete the memory of self-diagnosis results.

Sample

1. CHECK FUSE

Check that the following fuse is not blown:

Signal name	Fuse No.
Ignition power supply	53 (10 A)

Is the fuse blown?

YES>>

Replace the blown fuse after repairing the affected circuit.

NO>>

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2. CHECK ADAS CONTROL UNIT 2 POWER SUPPLY CIRCUIT

Check voltage between ADAS control unit 2 harness connector and ground.

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
ADAS control unit 2		Power switch	0 V
Connector	Terminal		
B56*1	20*1	OFF	0 V
B59*2	18*2	ON	Battery voltage

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

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NO>>

Repair the ADAS control unit 2 power supply circuit.

3. CHECK ADAS CONTROL UNIT 2 GROUND CIRCUIT

1. Turn the power switch OFF.
2. Disconnect the ADAS control unit 2 harness connector.
3. Check for continuity between ADAS control unit 2 harness connector and ground.

ADAS control unit 2	Ground	Continuity
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Connector	Terminal		
B56*1 B59*2	30*1 1*2 21*2 36*2		Existed

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

Inspection End.

NO>>

Repair the ADAS control unit 2 ground circuit.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U2176	57	CAN comm err (CCM/ST angle sensor) [Controller area network communication error (Chassis control module/Steering angle sensor)]	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error
			Diagnosis delay time	—

POSSIBLE CAUSE

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- Steering angle sensor

FAIL-SAFE

The following systems are canceled.

- Vehicle speed & vehicle-to-vehicle control function
- Lane keep function^{*1}
- Lane keep function^{*2}
- Lane change support function
- Overtaking support function
- Route driving support function
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI
- TSR
- I-DA

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “U2176-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)
- U1327-54: [DTC Description](#)

NO>>

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2. CHECK MAC DIAGNOSIS

 With CONSULT

1. Power switch ON.
2. Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U2176-57” 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 DTC PRIORITY

If DTC “U2176-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)(Without ProPILOT Assist 2.0) or [DTC Description](#)(With ProPILOT Assist 2.0)
- U1327-54: [DTC Description](#)(Without ProPILOT Assist 2.0) or [DTC Description](#)(With ProPILOT Assist 2.0)

NO>>

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2. CHECK MAC DIAGNOSIS

 With CONSULT

Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U2176-57” detected with DTC “U2140-57”, “U2143-57”, “U214F-57”, “U2175-57”, “U2443-57”, “U244F-57”, “U2465-57”, “U2475-57” and “U2476-57” at the same time?

YES (all DTC codes are detected at the same time)>>

Replace the ADAS control unit 2. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).

NO (all DTC codes are not detected at the same time)>>

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3. CHECK CAN DIAGNOSIS

 With CONSULT

Perform "CAN Diag".

Is the inspection result normal?

YES>>

Contact Techline and report the vehicle condition.

NO>>

Repair or replace root cause.