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2018 NISSAN Sentra OEM Service and Repair Workshop Manual

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1. CHECK DTC PRIORITY

If DTC "U2143-57" is displayed with DTC "U1327-52" or DTC "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or DTC "U1327-54".

Is DTC "U1327-52" or DTC "U1327-54" detected?

YES>>

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

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

Perform "MAC Diagnosis" mode of "CHASSIS CONTROL" using CONSULT.

Is DTC "U2143-57" detected with DTC "U1327-52", DTC "U1327-54", DTC "U214F-57", DTC "U2152-57", and DTC "U2165-57" at the same time?

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

Replace the chassis control module. Refer to [CHASSIS CONTROL MODULE : Removal & Installation](#).

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

[GO TO 3.](#)

3. CHECK CAN DIAGNOSIS

Perform "CAN Diag".

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace root cause.

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
U214F	57	CAN communication error (BCM)	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error.
			Diagnosis delay time	—

POSSIBLE CAUSE

- Chassis control module used in vehicles is installed in the vehicle
- Chassis control module
- BCM

FAIL-SAFE

Normal control

1. CHECK DTC PRIORITY

If DTC "U214F-57" is displayed with DTC "U1327-52" or DTC "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or DTC "U1327-54".

Is DTC "U1327-52" or DTC "U1327-54" detected?

YES>>

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

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

1. Power switch ON.
2. Perform "MAC Diagnosis" mode of "CHASSIS CONTROL" using CONSULT.

Is DTC "U214F-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 "U2143-57" is displayed with DTC "U1327-52" or DTC "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or DTC "U1327-54".

Is DTC "U1327-52" or DTC "U1327-54" detected?

YES>>

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

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

Perform "MAC Diagnosis" mode of "CHASSIS CONTROL" using CONSULT.

Is DTC "U214F-57" detected with DTC "U1327-52", DTC "U1327-54", DTC "U2143-57", DTC "U2152-57", and DTC "U2165-57" at the same time?

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

Replace the chassis control module. Refer to [CHASSIS CONTROL MODULE : Removal & Installation](#).

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

[GO TO 3.](#)

3. CHECK CAN DIAGNOSIS

Perform "CAN Diag".

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace root cause.

1. CHECK CHASSIS CONTROL MODULE POWER SWITCH ON POWER SUPPLY

1. Power switch OFF (auto ACC function OFF).
2. Disconnect the chassis control module harness connector.
3. Check the voltage between chassis control module harness connector and ground.

+		—	Voltage
Chassis control module			
Connector	Terminal		
M38 ^{*1}	5	Ground	Approx. 0 V
M39 ^{*2}			

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

4. Power switch ON.
5. Check the voltage between chassis control module harness connector and ground.

+		—	Voltage
Chassis control module			
Connector	Terminal		
M38 ^{*1}	5	Ground	6 – 16 V
M39 ^{*2}			

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

[GO TO 2.](#)

2. CHECK CHASSIS CONTROL MODULE POWER SWITCH ON POWER SUPPLY CIRCUIT

1. Power switch OFF (auto ACC function OFF).
2. Check the 10A fuse (#53).
3. Check the continuity and for short between chassis control module harness connector terminal (5) and 10A fuse (#53).

Is the inspection result normal?

YES>>

Perform trouble diagnosis for power switch ON power supply.

NO>>

Repair / replace harness, connector, or fuse.

3. CHECK CHASSIS CONTROL MODULE BATTERY POWER SUPPLY

Check voltage between chassis control module harness connector and ground.

+		—	Voltage
Chassis control module			
Connector	Terminal		
M38*1	13	Ground	6.4 – 16 V
M39*2			

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO1>>

Without ProPILOT Assist 2.0: [GOTO 4.](#)

NO-2>>

With ProPILOT Assist 2.0: [GOTO 5.](#)

4. CHECK CHASSIS CONTROL MODULE BATTERY POWER SUPPLY CIRCUIT (WITHOUT PROPILOT ASSIST 2.0)

1. Check the 5A fuse (#1).
2. Check continuity between chassis control module harness connector and the fuse block (J/B).

Chassis control module		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M38*1	13	M73	98	Existed
M39*2				

Is the inspection result normal?

YES>>

Perform the trouble diagnosis for 12V battery power supply circuit.

NO>>

Repair / replace harness, connector, or terminal.

5. CHECK CHASSIS CONTROL MODULE BATTERY POWER SUPPLY CIRCUIT (WITH PROPILOT ASSIST 2.0)

1. Check the 5A fuse (#108).

2. Check the continuity and for short between chassis control module harness connector terminal (13) and 5A fuse (#108).

Is the inspection result normal?

YES>>

Perform trouble diagnosis for 12V battery power supply.

NO>>

Repair / replace harness, connector, or fuse.

6. CHECK CHASSIS CONTROL MODULE GROUND CIRCUIT

Check the continuity between chassis control module harness connector and the ground.

Chassis control module		—	Continuity
Connector	Terminal		
M38*1	15	Ground	Existed
M39*2			

Is the inspection result normal?

YES>>

[GO TO 7.](#)

NO>>

Repair / replace harness or connector.

7. CHECK TERMINAL

Check the chassis control module terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair / replace harness, connector, or terminal.

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C1B8C	82	Battery management system	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal
			Threshold	Li-ion battery controller (LBC) is malfunctioning.
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

Li-ion battery controller (LBC) system

FAIL-SAFE

Normal control

Sample

1. PRECONDITIONING

If “Confirmation Procedure” has been previously conducted, always power switch OFF (auto ACC function OFF) and wait at least 10 seconds before conducting the next test.

>>

[GO TO 2.](#)

2. CHECK DTC DETECTION

 With CONSULT

1. Power switch OFF (auto ACC function OFF) to ON.

CAUTION:

Be sure to wait of 10 seconds after power switch OFF (auto ACC function OFF) or ON.

2. Perform self-diagnosis for “CHASSIS CONTROL”.

Is DTC “C1B8C-82” detected?

YES-1>>

"CRNT" is displayed: Refer to [DTC Diagnosis Procedure](#).

YES-2>>

"PAST" is displayed: INSPECTION END (Erase the memory of self-diagnosis results.)

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END