

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.

2021 NISSAN Sunny Service and Repair Manual

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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. VISUAL INSPECTION

Check distance sensor and distance sensor bracket for damage.

Is it damaged?

YES >>

Repair or replace affected components. Refer to [Removal and Installation](#).

NO >>

[GO TO 2.](#)

2. CHECK DISTANCE SENSOR SELF-DIAGNOSIS RESULTS

Check if the "C2581-78" is detected in "Self Diagnostic Result" of "LASER/RADAR".

Is "C2581-78" detected?

YES >>

Replace the distance sensor. Refer to [Removal and Installation](#).

NO >>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2587	16	POWER SUPPLY CIRCUIT (Power supply circuit)	Diagnosis condition	<ul style="list-style-type: none"> When vehicle is READY When AEB system is ON
			Signal (terminal)	Power switch ON power supply
			Threshold	7.9V or less
			Diagnosis delay time	5 seconds or more

POSSIBLE CAUSE

- Connector, harness, fuse
- Distance sensor

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Steering wheel assistance function^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- RAB
- I-FCW

*1: With ProPILOT Assist, Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

*3: ProPILOT Assist 2.0 display is green

*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.
2. Turn the AEB system ON, and then wait for 5 seconds or more.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C2587-16” is detected as the current malfunction in “Self Diagnostic Result” of “LASER/RADAR”.

Is “C2587-16” 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 DISTANCE SENSOR POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit of distance sensor. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES >>

Replace the distance sensor. Refer to [Removal and Installation](#)

NO >>

Repair or replace the malfunctioning parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C258E	81	ABS (Anti-lock braking system)	Diagnosis condition	<ul style="list-style-type: none"> When vehicle is READY When AEB system is ON
			Signal (terminal)	CAN communication signal
			Threshold	If the steering angle sensor is malfunction
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

Steering angle sensor

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Steering wheel assistance function^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- RAB
- I-FCW

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CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C258E-81” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

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

NO >>

[GO TO 2.](#)

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.
2. Turn the AEB system ON, and then wait for 2 seconds or more.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C258E-81” is detected as the current malfunction in self-diagnosis results of “LASER/RADAR”.

Is “C258E-81” 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

1. CHECK DTC PRIORITY

If DTC “C258E-81” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

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

NO >>

[GO TO 2.](#)

2. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in “Self Diagnostic Result” of “ABS”.

Is any DTC detected?

YES >>

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

NO >>

Perform the adjustment of steering angle sensor neutral position (Refer to [Work Procedure](#). Then [GO TO 3.](#)

3. CHECK DISTANCE SENSOR SELF-DIAGNOSIS RESULTS

Check if “C258E-81” is detected as the current malfunction in “Self Diagnostic Result” of “LASER/RADAR”.

Is any DTC detected?

YES >>

Replace the distance sensor. Refer to [Removal and Installation](#).

NO >>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C258E	82	ABS (Anti-lock braking system)	Diagnosis condition	<ul style="list-style-type: none"> When vehicle is READY When AEB system is ON
			Signal (terminal)	CAN communication signal
			Threshold	If the steering angle sensor is malfunction
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

Steering angle sensor

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Steering wheel assistance function^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
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CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY