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2021 NISSAN Primera Sedan Service and Repair Manual

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1. CHECK DTC PRIORITY

If DTC "U2143-83" 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 VCM SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "EV/HEV".

Is any DTC detected?

YES>>

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

NO>>

Replace the distance sensor. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
U215B	83	CAN communication error (IPDM E/R)	Diagnosis condition	• When vehicle is READY • WhenAEB system is ON	
			Signal (terminal)	CAN communication signal	
			Threshold	If the IPDM E/R is malfunction	
			Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

IPDM E/R

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. CHECK DTC PRIORITY

If DTC "U215B-83" 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 "U215B-83" is detected as the current malfunction in "Self Diagnostic Result" of "LASER/RADAR".

Is "U215B-83" 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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "U215B-83" 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 IPDM E/R SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "IPDM E/R".

Is any DTC detected?

YES >>

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

NO >>

Replace the distance sensor. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C2582	97	Distance sensor (Distance sensor)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	—	
			Threshold	If any stain occurs to distance sensor body window.	
			Diagnosis delay time	60 seconds or more	

POSSIBLE CAUSE

- Stain or foreign materials is deposited

- Cracks or scratches exist

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

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CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

    1. Set the vehicle to READY.

    2. Turn the AEB system ON, and then wait for 60 seconds or more.

    3. Perform "All DTC Reading" with CONSULT.

    4. Check if the "C2582-97" is detected as the current malfunction in "Self Diagnostic Result" of "LASER/RADAR".

Is "C2582-97" 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

DTC Diagnosis Procedure

1. VISUAL CHECK 1

Check the contamination and foreign matter on the distance sensor area of the front grill.

Does contamination or foreign materials adhere?

YES >>

Wipe out the contamination and foreign matter on the distance sensor area of the front grill.

NO >>

GO TO 2.

2. VISUAL CHECK 2

1. Remove the front grill. Refer to Removal & Installation .

2. Check distance sensor for contamination and foreign matter.

Does contamination or foreign matter adhere?

YES >>

Wipe out the contamination and foreign matter from the distance sensor.

NO >>

GO TO 3.

3. VISUAL CHECK 3

Check distance sensor and distance sensor bracket for cracks and scratches.

Is it damaged?

YES >>

Replace the distance sensor. Refer to Removal and Installation.

NO >>

GO TO 4.

4. PERFORM RADAR ALIGNMENT

1. Adjust the radar alignment with CONSULT. Refer to Work Procedure.

2. Perform "All DTC Reading".

3. Check the "C2582-97" is detected in "Self Diagnostic Result" of "LASER/RADAR".

Is "C2582-97" detected?

YES >>

Replace the distance sensor. Refer to Removal and Installation.

NO >>

GO TO 5.

5. INTERVIEW

1. Ask if there is any trace of contamination or foreign materials adhering to the distance sensor area of the front grill.

2. Ask if distance sensor area of the front grill was frosted during driving or if vehicle was driven in snow.

3. Ask if distance sensor area of the front grill was temporarily fogged. (Windshield glass may also tend to fog, etc.)

Is any of above conditions seen?

YES >>

Explain to the customer about the difference between the contamination detection function and the indication when the malfunction is detected and tell them "This is not malfunction".

NO >>

Replace the distance sensor. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C2580	45	Distance sensor (Distance sensor)	Diagnosis condition	When vehicle is READY	
			Signal (terminal)	—	
			Threshold	Distance sensor is malfunctioning	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

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

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CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C2580-45" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?