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2019 Nissan 370Z Service and Repair Manual

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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 "C1F51-29" 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 SELF-DIAGNOSIS OF IPDM E/R

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 ADAS control unit 2. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F51	82	IPDM E/R (Intelligent power distribution module engine room)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	—	
			Threshold	If ADAS control unit 2 detects an error signal that is received from IPDM E/R via CAN communication	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

IPDM E/R

FAIL-SAFE

The following system are cancelled.

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

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F51-82" 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.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F51-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F51-82" 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 "C1F51-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index(Without ProPILOT Assist 2.0) or DTC Index(With ProPILOT Assist 2.0).

NO >>

GO TO 2 .

2. PERFORM SELF-DIAGNOSIS OF IPDM E/R

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 ADAS control unit 2. Refer to Removal and Installation(Without ProPILOT Assist 2.0) or Removal and Installation(With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F51	82	IPDM E/R (Intelligent power distribution module engine room)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	—	
			Threshold	If ADAS control unit 2 detects an error signal that is received from IPDM E/R via CAN communication	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

IPDM E/R

FAIL-SAFE

The following system are cancelled.

- Vehicle-to-vehicle distance control mode
- Conventional (fixed speed) cruise control mode
- Steering wheel assistance function
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI
- TSR
- I-DA

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F51-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Turn the AEB system ON.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F51-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F51-82" 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 DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F51	83	IPDM E/R (Intelligent power distribution module engine room)	Diagnosis condition	• When vehicle is READY • When AEB system is ON	
			Signal (terminal)	—	
			Threshold	If ADAS control unit 2 detects an error signal that is received from IPDM E/R via CAN communication	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

IPDM E/R

FAIL-SAFE

The following system are cancelled.

- Lane keep function[*]
- Lane change support function
- Overtaking support function
- Route driving support function
- RAB

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F51-83" 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.

3. Perform "All DTC Reading" with CONSULT.

4. Check if the "C1F51-83" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F51-83" 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