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2019 NISSAN 370Z Roadster Service and Repair Manual

[Go to manual page](#)

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F46	83	VCM/HPCM (Vehicle control module/Hybrid power train control module)	Diagnosis condition	<ul style="list-style-type: none"> 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 VCM via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

VCM

FAIL-SAFE

The following system are cancelled.

- 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 “C1F46-83” 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 “C1F46-83” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F46-83” 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

1. CHECK DTC PRIORITY

If DTC “C1F46-83” 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 VCM

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 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	
C1F46	83	VCM/HPCM (Vehicle control module/Hybrid power train control module)	Diagnosis condition	<ul style="list-style-type: none"> 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 VCM via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

VCM

FAIL-SAFE

The following system are cancelled.

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

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F46-83” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

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

NO>>

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 “C1F46-83” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F46-83” 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

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F46	97	VCM/HPCM (Vehicle control module/Hybrid power train control module)	Diagnosis condition	<ul style="list-style-type: none"> 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 VCM via CAN communication
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

VCM

FAIL-SAFE

The following system are cancelled.

- 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
- TSR

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F46-97” 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 “C1F46-97” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F46-97” 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

Sample

1. CHECK DTC PRIORITY

If DTC “C1F46-97” 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 VCM

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 ADAS control unit 2. Refer to [Removal and Installation](#).

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F51	29	IPDM E/R (Intelligent power distribution module engine room)	Diagnosis condition	<ul style="list-style-type: none"> 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

None

CONFIRMATION 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 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 “C1F51-29” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F51-29” detected as the current malfunction?

YES>>

Refer to [DTC Diagnosis Procedure](#).