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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.

2020 NISSAN Leaf Service and Repair Manual

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1. CHECK DTC PRIORITY

If DTC "C1F48–64" is displayed with Network-DTC, first diagnose the Network-DTC.

<u>Is applicable DTC detected?</u>

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 "C1F48–64" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

<u>Is "C1F48–64" detected as the current malfunction?</u>

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 "C1F48–64" 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 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

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>>

Replace the ADAS control unit 2. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F65	04	Sonar control unit (Sonar control unit)	Diagnosis condition	When vehicle is READY	
			Signal (terminal)	—	
			Threshold	ADAS control unit 2 detects that sonar control unit has a malfunction	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

- Sonar control unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- Lane keep function[*]

- Lane change support function

- Overtaking support function

- Route driving support function

- AEB

- RAB

- I-FCW

- TSR

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F65-04" 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. Perform "All DTC Reading" with CONSULT.

3. Check if the "C1F65-04" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F65-04" 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 "C1F65-04" 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 SONAR CONTROL UNIT

Check if any DTC is detected in "Self Diagnostic Result" of "SONAR".

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		
C1F65	04	Sonar control unit (Sonar control unit)	Diagnosis condition	When vehicle is READY	
			Signal (terminal)	—	
			Threshold	ADAS control unit 2 detects that sonar control unit has a malfunction	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

- Sonar control unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- AEB

- RAB

- I-FCW

- TSR

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F65-04" 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. Perform "All DTC Reading" with CONSULT.

3. Check if the "C1F65-04" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F65-04" 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

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		
C1F65	82	Sonar control unit (Sonar control unit)	Diagnosis condition	When vehicle is READY	
			Signal (terminal)	—	
			Threshold	ADAS control unit 2 detects that sonar control unit has a malfunction	
			Diagnosis delay time	1 second or less	

POSSIBLE CAUSE

- Sonar control unit

- ADAS control unit 2

FAIL-SAFE

The following system are cancelled.

- Lane keep function[*]

- Lane change support function

- Overtaking support function

- Route driving support function

- AEB

- RAB

- I-FCW

- TSR

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "C1F65-82" 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. Perform "All DTC Reading" with CONSULT.

3. Check if the "C1F65-82" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

Is "C1F65-82" 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