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2019 NISSAN Leaf Service and Repair Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F8B	62	HD map module circuit (HD map module circuit)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	Ethernet communication signal
			Threshold	Receive system error signal from HD map module
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- HD map module circuit
- ADAS control unit 2 malfunction

FAIL-SAFE

The following system are cancelled.

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

*: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F8B-62” is displayed with DTC “U19C5-87” or “U19C7-87”, first perform the confirmation procedure the trouble diagnosis for DTC “U19C5-87” or “U19C7-87”.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable.

- U19C5-87: Refer to [DTC Diagnosis Procedure](#).
- U19C7-87: Refer to [DTC Diagnosis Procedure](#).

NO>>

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2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.
2. Perform “All DTC Reading” with CONSULT.

3. Check if the “C1F8B-62” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “C1F8B-62” 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 “C1F8B-62” is displayed with DTC “U19C5-87” or “U19C7-87”, first perform the confirmation procedure the trouble diagnosis for DTC “U19C5-87” or “U19C7-87”.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable.

- U19C5-87: Refer to [DTC Diagnosis Procedure](#).
- U19C7-87: Refer to [DTC Diagnosis Procedure](#).

NO>>

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2. CHECK HD MAP MODULE SELF-DIAGNOSIS RESULTS

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

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	
C1F03	72	OPERATION SW CIRC (Operation switch circuit)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	Stop lamp request signal
			Threshold	Stop lamp inactive state despite the outputting of a stop lamp request signal from ADAS control unit 2
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- BCM
- Chassis control module
- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

- 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 “C1F03-72” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

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

NO >>

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2. PERFORM DTC CONFIRMATION PROCEDURE-1

 **NOTE:**
To prevent the possibility of accident, perform component function check instead of DTC confirmation procedure.

1. Set the vehicle to READY.

2. Perform the active test items “STOP LAMP 1” and “STOP LAMP 2” of “BCM” with CONSULT.

Is the inspection result normal?

YES-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

YES-2>>

Confirmation after repair: INSPECTION END

NO>>

Refer to [DTC Diagnosis Procedure](#).

3. PERFORM DTC CONFIRMATION PROCEDURE-2

Perform the active test items “Stop lamp ON” of “CHASSIS CONTROL” with CONSULT.

Is the inspection result normal?

YES-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

YES-2>>

Confirmation after repair: INSPECTION END

NO>>

Refer to [DTC Diagnosis Procedure](#).

1. PERFORM SELF-DIAGNOSIS OF BCM

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

Is any DTC detected?

YES>>

Repair or replace the malfunctioning parts identified by the self-diagnosis result. Refer to [DTC Index](#).

NO>>

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2. PERFORM SELF-DIAGNOSIS OF CHASSIS CONTROL MODULE

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

Is any DTC detected?

YES>>

Repair or replace the malfunctioning parts identified by the self-diagnosis result. Refer to [DTC Index](#).

NO>>

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3. CHECK BRAKE HOLD RELAY POWER SUPPLY CIRCUIT

Check for between brake hold relay vehicle side harness connector and ground.

Brake hold relay		Ground	Voltage
Connector	Terminal		(Approx.)
E140	2		Battery voltage
	3		

Is the inspection result normal?

YES>>

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NO>>

Repair the harnesses or connectors.

4. CHECK HARNESS BETWEEN BRAKE HOLD RELAY AND ADAS C/U 2

1. Turn the power switch OFF.
2. Disconnect chassis control module connector.
3. Check for continuity between the brake hold relay vehicle side harness connector and the chassis control module vehicle side harness connector.

Brake hold relay		Chassis control module		Continuity
Connector	Terminal	Connector	Terminal	

E140	1	M39	24	Existed
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4. Check for continuity between chassis control module vehicle side harness connector and ground.

Chassis control module		Ground	Continuity
Connector	Terminal		
M39	24		Not existed

Is the inspection result normal?

YES>>

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NO>>

Repair the harnesses or connectors.

5. CHECK BRAKE HOLD RELAY

1. Disconnect brake hold relay.
2. Check brake hold relay. Refer to [Component Inspection](#) .

Is the inspection result normal?

YES>>

Replace the ADAS C/U 2. Refer to [Removal and Installation](#).

NO>>

Replace the brake hold relay.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C1F03	72	OPERATION SW CIRC (Operation switch circuit)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	Stop lamp request signal
			Threshold	Stop lamp inactive state despite the outputting of a stop lamp request signal from ADAS control unit 2
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- BCM
- ADAS control unit 2

FAIL-SAFE

The following systems are canceled.

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

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C1F03-72” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

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

NO >>

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2. PERFORM DTC CONFIRMATION PROCEDURE



NOTE:

To prevent the possibility of accident, perform component function check instead of DTC confirmation procedure.

1. Set the vehicle to READY.
2. Perform the active test items “STOP LAMP 1” and “STOP LAMP 2” of “BCM” with CONSULT.

Is the inspection result normal?

YES-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

YES-2>>

Confirmation after repair: INSPECTION END

NO >>

Refer to [DTC Diagnosis Procedure](#).

Sample