

# Your Ultimate Source for OEM Repair Manuals

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.

## 2019 NISSAN Pulsar Service and Repair Manual

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# 1. PERFORM DTC CONFIRMATION PROCEDURE

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1. Set the vehicle to READY.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U19C9-87” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “U19C9-87” 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. PERFORM DIAGNOSIS OF CAN COMMUNICATION CIRCUIT

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Perform diagnosis of CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

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INSPECTION END

Sample

## CAN COMMUNICATION

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads the required data only.

CAN communication signal chart. Refer to [CAN Communication Signal Chart](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U19CA	87	CAN comm err (Side radar front RH) [Controller area network communication error (Side radar front right hand)]	Diagnosis condition	When vehicle is READY
			Signal (terminal)	CAN communication signal
			Threshold	If ADAS control unit 2 is not transmitting or receiving CAN communication signal
			Diagnosis delay time	1 second or less



**NOTE:**

If “U19CA-87” is detected, first diagnose the CAN communication system.

## POSSIBLE CAUSE

CAN communication system

## 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



**NOTE:**

- With the detection of “U19CA-87” some systems do not perform the fail-safe operation.
- A system controlling based on a signal received from the control unit performs fail-safe operation when the communication with the ADAS control unit 2 becomes inoperable.

## CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

---

1. Set the vehicle to READY.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U19CA-87” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “U19CA-87” 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. PERFORM DIAGNOSIS OF CAN COMMUNICATION CIRCUIT

---

Perform diagnosis of CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

>>

INSPECTION END

Sample

## CAN COMMUNICATION

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads the required data only.

CAN communication signal chart. Refer to [CAN Communication Signal Chart](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U19D0	87	CAN comm err (BCM) [Controller area network communication error (Body control module)]	Diagnosis condition	When vehicle is READY
			Signal (terminal)	CAN communication signal
			Threshold	If ADAS control unit 2 is not transmitting or receiving CAN communication signal
			Diagnosis delay time	9 seconds or more



**NOTE:**

If “U19D0-87” is detected, first diagnose the CAN communication system.

## POSSIBLE CAUSE

CAN communication system

## 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-LI
- I-BSI

\*1: ProPILOT Assist 2.0 display is green



**NOTE:**

- **With the detection of “U19D0-87” some systems do not perform the fail-safe operation.**
- **A system controlling based on a signal received from the control unit performs fail-safe operation when the communication with the ADAS control unit 2 becomes inoperable.**

## CONFIRMATION PROCEDURE

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### 1. PERFORM DTC CONFIRMATION PROCEDURE

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1. Set the vehicle to READY, and then wait for 9 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U19D0-87” is detected as the current malfunction in “Self Diagnostic Result” of “ICC/ADAS 2”.

Is “U19D0-87” 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. PERFORM DIAGNOSIS OF CAN COMMUNICATION CIRCUIT

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Perform diagnosis of CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

>>

INSPECTION END

Sample

## CAN COMMUNICATION

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads the required data only.

CAN communication signal chart. Refer to [CAN Communication Signal Chart](#).

## DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U19D1	87	CAN comm err (CCM) [Controller area network communication error (Chassis control module)]	Diagnosis condition	When vehicle is READY
			Signal (terminal)	CAN communication signal
			Threshold	If ADAS control unit 2 is not transmitting or receiving CAN communication signal
			Diagnosis delay time	1 second or less



### NOTE:

If "U19D1-87" is detected, first diagnose the CAN communication system.

## POSSIBLE CAUSE

CAN communication system

## FAIL-SAFE

The following system are cancelled.

- Vehicle speed & vehicle-to-vehicle control function
- Lane keep function<sup>\*1</sup>
- Lane keep function<sup>\*2</sup>
- Lane change support function
- Overtaking support function
- Route driving support function
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI