

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.

2020 NISSAN Patrol Service and Repair Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U214F	57	CAN comm err (BCM) [Controller area network communication error (Body control module)]	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error
			Diagnosis delay time	—

POSSIBLE CAUSE

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- BCM

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
- 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 “U214F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)
- U1327-54: [DTC Description](#)

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

 With CONSULT

1. Power switch ON.
2. Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U214F-57” detected?

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 “U214F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)(Without ProPILOT Assist 2.0) or [DTC Description](#)(With ProPILOT Assist 2.0)
- U1327-54: [DTC Description](#)(Without ProPILOT Assist 2.0) or [DTC Description](#)(With ProPILOT Assist 2.0)

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

 With CONSULT

Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U214F-57” detected with DTC “U2140-57”, “U2143-57”, “U2175-57”, “U2176-57”, “U2443-57”, “U244F-57”, “U2465-57”, “U2475-57” and “U2476-57” at the same time?

YES (all DTC codes are detected at the same time)>>

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).

NO (all DTC codes are not detected at the same time)>>

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3. CHECK CAN DIAGNOSIS

 With CONSULT

Perform "CAN Diag".

Is the inspection result normal?

YES>>

Contact Techline and report the vehicle condition.

NO>>

Repair or replace root cause.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U214F	57	CAN comm err (BCM) [Controller area network communication error (Body control module)]	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error
			Diagnosis delay time	—

POSSIBLE CAUSE

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- BCM

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
- I-LI
- I-BSI
- TSR
- I-DA

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “U214F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)
- U1327-54: [DTC Description](#)

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

 With CONSULT

1. Power switch ON.
2. Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U214F-57” detected?

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	
U244F	57	CAN comm err (BCM) [Controller area network communication error (Body control module)]	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error
			Diagnosis delay time	—

POSSIBLE CAUSE

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- BCM

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
- 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 “U244F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#)
- U1327-54: [DTC Description](#)

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

 With CONSULT

1. Power switch ON.
2. Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U244F-57” detected?

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 “U244F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: [DTC Description](#) (Without ProPILOT Assist 2.0) or [DTC Description](#) (With ProPILOT Assist 2.0)
- U1327-54: [DTC Description](#) (Without ProPILOT Assist 2.0) or [DTC Description](#) (With ProPILOT Assist 2.0)

NO>>

[GO TO 2.](#)

2. CHECK MAC DIAGNOSIS

 With CONSULT

Perform “MAC Diagnosis” mode of “ICC/ADAS 2” using CONSULT.

Is DTC “U244F-57” detected with DTC “U2140-57”, “U2143-57”, “U214F-57”, “U2175-57”, “U2176-57”, “U2443-57”, “U2465-57”, “U2475-57” and “U2476-57” at the same time?

YES (all DTC codes are detected at the same time)>>

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).

NO (all DTC codes are not detected at the same time)>>

[GO TO 3.](#)

3. CHECK CAN DIAGNOSIS

 With CONSULT

Perform "CAN Diag".

Is the inspection result normal?

YES>>

Contact Techline and report the vehicle condition.

NO>>

Repair or replace root cause.

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U244F	57	CAN comm err (BCM) [Controller area network communication error (Body control module)]	Diagnosis condition	—
			Signal (terminal)	—
			Threshold	MAC communication error
			Diagnosis delay time	—

POSSIBLE CAUSE

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- BCM

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
- I-LI
- I-BSI
- TSR
- I-DA

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “U244F-57” is displayed with DTC “U1327-52” or “U1327-54”, first perform the trouble diagnosis for DTC “U1327-52” or “U1327-54”.

Is DTC “U1327-52” or “U1327-54” detected?

YES>>