

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.

2022 NISSAN X-Trail Service and Repair Manual

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

NO-2 >>

Confirmation after repair: INSPECTION END

Sample

1. PERFORM SIDE RADAR ALIGNMENT

1. Perform side radar alignment. Refer to [Work Procedure](#).
2. Erase all self-diagnosis results of “Side radar (Rear right)” with CONSULT.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C1E90-78” is detected in “Self Diagnostic Result” of “Side radar (Rear right)”.

Is “C1E90-78” detected?

YES >>

Replace the side radar RH. Refer to [Removal and Installation](#).

NO >>

INSPECTION END

Sample

CAN COMMUNICATION

- CAN communication is a multiplex communication system. This enables the system to transmit and receive large quantities of data at high speed by connecting control units with 2 communication lines.
- CAN communication lines adopt twisted-pair line style (two lines twisted) for noise immunity.

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

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| | | Diagnosis condition | |
| U1B4E-87 | CAN communication error | Diagnosis condition | When vehicle is READY |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | If side radar rear RH is not transmitting or receiving CAN communication signal |
| | | Diagnosis delay time | 2 seconds or more |



NOTE:

If "U1B4E-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
- BSW
- I-BSI
- RCTA

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue



NOTE:

With the detection of “U1B4E-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 side radar RH becomes inoperable.

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the vehicle is READY, and then wait for 2 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U1B4E-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Rear right)”.

Is “U1B4E-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 THE SELF-DIAGNOSIS

1. Erase all self-diagnosis results of “Side radar (Rear right)” with CONSULT.
2. Perform DTC confirmation procedure again. Refer to [DTC Description](#).
3. Check if the “U1B4E-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Rear right)”.

Is “U1B4E-87” detected as the current malfunction?

YES >>

Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample

CAN COMMUNICATION

- CAN communication is a multiplex communication system. This enables the system to transmit and receive large quantities of data at high speed by connecting control units with 2 communication lines.
- CAN communication lines adopt twisted-pair line style (two lines twisted) for noise immunity.

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

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| | | Diagnosis condition | |
| U2152-87 | CAN communication error (ADAS control unit) | Diagnosis condition | When vehicle is READY |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | If side radar rear RH is not transmitting or receiving CAN communication signal |
| | | Diagnosis delay time | 2 seconds or more |



NOTE:

If “U2152-87” 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
- BSW
- I-BSI
- RCTA

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NOTE:

With the detection of “U2152-87” 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 side radar RH becomes inoperable.

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY, and then wait for 2 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “U2152-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Rear right)”.

Is “U2152-87” 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 THE SELF-DIAGNOSIS

1. Erase all self-diagnosis results of “Side radar (Rear right)” with CONSULT.
2. Perform DTC confirmation procedure again. Refer to [DTC Description](#).
3. Check if the “U2152-87” is detected as the current malfunction in “Self Diagnostic Result” of “Side radar (Rear right)”.

Is “U2152-87” detected as the current malfunction?

YES >>

Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample

CAN COMMUNICATION

- CAN communication is a multiplex communication system. This enables the system to transmit and receive large quantities of data at high speed by connecting control units with 2 communication lines.
- CAN communication lines adopt twisted-pair line style (two lines twisted) for noise immunity.

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

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC detection condition | |
|----------|---|-------------------------|---|
| | | Diagnosis condition | |
| U216C-87 | CAN communication error (side radar) | Diagnosis condition | When vehicle is READY |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | If side radar rear RH is not transmitting or receiving CAN communication signal |
| | | Diagnosis delay time | 2 seconds or more |



NOTE:

If “U216C-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
- BSW
- I-BSI
- RCTA

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