

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.

2021 NISSAN Terrano Service and Repair Manual

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1. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.
2. Turn the AEB system ON, and then wait for 5 seconds or more.
3. Perform “All DTC Reading” with CONSULT.
4. Check if the “C2587-17” is detected as the current malfunction in “Self Diagnostic Result” of “LASER/RADAR”.

Is “C2587-17” 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 DISTANCE SENSOR POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit of distance sensor. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES >>

Replace the distance sensor. Refer to [Removal and Installation](#)

NO >>

Repair or replace the malfunctioning parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
U2148	83	CAN communication error (brakecontrol unit)	Diagnosis condition	<ul style="list-style-type: none"> When vehicle is READY When AEB system is ON
			Signal (terminal)	CAN communication signal
			Threshold	If the ABS actuator and electric unit (control unit) is malfunction
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

ABS actuator and electric unit (control unit)

FAIL-SAFE

The following systems are canceled.

- Vehicle-to-vehicle distance control mode^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Steering wheel assistance function^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- RAB
- I-FCW

*1: With ProPILOT Assist, Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

*3: ProPILOT Assist 2.0 display is green

*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC "U2148-83" 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. Turn the AEB system ON, and then wait for 2 seconds or more.
3. Perform "All DTC Reading" with CONSULT.
4. Check if the "U2148-83" is detected as the current malfunction in "Self Diagnostic Result" of "LASER/RADAR".

Is "U2148-83" 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. CHECK DTC PRIORITY

If DTC "U2148-83" 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. CHECK ABS ACTUATOR AND ELECTRIC (CONTROL UNIT) SELF-DIAGNOSIS RESULTS

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 distance sensor. Refer to [Removal and Installation](#).

1. CHECK STEERING ASSIST SWITCH

1. Turn power switch ON.
2. Check the display of "Switch2" in data monitor item of "ICC/ADAS 2" under the following conditions.

Monitor item	Measurement condition	Reference value/Condition
Switch2	press steering assist switch	ON
	Except the above	OFF

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Refer to [Diagnosis Procedure](#).

Sample

1. CHECK SIGNAL CIRCUIT OF STEERING ASSIST SWITCH

1. Turn power switch OFF.
2. Disconnect steering assist switch connector.
3. Disconnect ADAS control unit 2 connector.
4. Check continuity between vehicle side harness connectors of ADAS control unit 2 and steering assist switch.

ADAS control unit 2		Steering assist switch		Continuity
Connector	Terminal	Connector	Terminal	
B56*1	9*1	M139	2	Exist
B59*2	3*2			

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

5. Check continuity between vehicle side harness connector of ADAS control unit 2 and ground.

ADAS control unit 2		Ground	Continuity
Connector	Terminal		
B56*1	9*1	Ground	Not exist
B59*2	3*2		

*1: Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair harness or connector.

2. CHECK GROUND CIRCUIT OF STEERING ASSIST SWITCH

Check continuity between vehicle side harness connector of steering assist switch and ground.

Steering assist switch		Ground	Continuity
Connector	Terminal		
M139	3	Ground	Not ex

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair harness or connector.

3. CHECK STEERING ASSIST SWITCH UNIT

Check steering assist switch unit. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace steering assist switch. Refer to [STEERING ASSIST SWITCH : Removal & Installation](#).

Sample

1. CHECK STEERING ASSIST SWITCH

Check resistance between terminals of steering assist switch.

Terminal		Condition	Continuity
2	3	When pressing steering assist switch	Exist
		When not pressing steering assist switch	Not exist

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace steering assist switch. Refer to [STEERING ASSIST SWITCH : Removal & Installation](#).

Sample