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2017 NISSAN 370z Nismo OEM Service and Repair Workshop Manual

Go to manual page

1. CHECK DTC PRIORITY

If DTC “U2152-83” 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. Perform “All DTC Reading” with CONSULT.
3. Check if the “U2152-83” is detected as the current malfunction in “Self Diagnostic Result” of “AROUND VIEW MONITOR”.

Is “U2152-83” 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

DTC Diagnosis Procedure

SIEMD-7254676

1. CHECK DTC PRIORITY

If DTC “U2152-83” 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 ADAS CONTROL UNIT 2 SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in “Self Diagnostic Result” of “ICC/ADAS 2”.

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 around view monitor control unit. Refer to Removal and Installation.

SIEMD-7254680

DTC DETECTION LOGIC

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		CONSULT screen terms	DTC detection condition	
U2152	87	CAN comm err (ADAS control unit)	Diagnosis condition	When power switch is ON
			Signal (terminal)	CAN communication signal
			Threshold	Communication error
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

None

SIEMD-7254681

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the power switch ON, and then wait for 2 seconds or more.
2. Perform “Self Diagnostic Result” mode of “AROUND VIEW MONITOR” using CONSULT.

Is any DTC 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

SIEMD-7254682

1. CHECK CAN DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to Trouble Diagnosis Flow Chart.

>>

INSPECTION END

SIEMD-7254688

DTC DETECTION LOGIC

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		CONSULT screen terms	DTC detection condition	
U2154	87	CAN comm err (MIU)	Diagnosis condition	When power switch is ON
			Signal (terminal)	CAN communication signal
			Threshold	Communication error
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

- Camera image not displayed.
- MOD (Moving Object Detection) function is cancel.

SIEMD-7254687

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the power switch ON, and then wait for 2 seconds or more.
2. Perform “Self Diagnostic Result” mode of “AROUND VIEW MONITOR” using CONSULT.

Is any DTC 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

SIEMD-7254686

1. CHECK CAN DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to Trouble Diagnosis Flow Chart.

>>

INSPECTION END

SIEMD-7254694

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition		
U2155	82	CAN comm err (parking brake)	1	Diagnosis condition	When vehicle is READY
				Signal (terminal)	CAN communication signal
				Threshold	If the ABS actuator and electric unit (control unit) is malfunction
				Diagnosis delay time	2 seconds or more
			2	Diagnosis condition	When vehicle is READY
				Signal (terminal)	CAN communication signal
				Threshold	If the chassis control module is malfunction
				Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- ABS actuator and electric unit (control unit)
- Chassis control module
- Around view monitor control unit

FAIL-SAFE

The following systems are canceled.

- ProPILOT Park