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2023 NISSAN Rogue Service and Repair Manual

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Fail-safe

Refer to [Fail-safe (Distance sensor)](#).

DTC Inspection Priority Chart

If multiple DTCs are detected simultaneously, check them one by one depending on the following DTC inspection priority chart.

Priority	Detected items (DTC)
1	• C2580-55: Distance sensor • U2A07-88: CAN comm err (ITS2-CAN Bus Off)
2	• C2580-45: Distance sensor • C2580-47: Distance sensor • C2580-48: Distance sensor • C2580-4B: Distance sensor • C2581-78: Distance sensor • C2581-92: Distance sensor • C2582-97: Distance sensor • C2584-02: Distance sensor • C2585-87: CAN comm err • C2587-16: POWER SUPPLY CIRCUIT • C2587-17: POWER SUPPLY CIRCUIT • C2588-82: ADAS control unit • C2588-86: ADAS control unit • C2588-87: ADAS control unit • C258B-82: VCM/HPCM • C258B-86: VCM/HPCM • C258E-81: ABS • C258E-82: ABS • C258E-86: ABS • C258E-87: ABS • C258F-81: IPDM E/R • C258F-82: IPDM E/R • C258F-86: IPDM E/R • C258F-87: IPDM E/R • C2591-81: BCM • C2591-82: BCM • C2591-86: BCM • C2591-87: BCM • C2595-81: EPS control unit • C2595-86: EPS control unit

Priority	Detected items (DTC)
	• C2595-87: EPS control unit
	• U2104-87: CAN comm err (active steering)
	• U2140-87: CAN comm err (ECM)
	• U2141-87: CAN comm err (TCM)
	• U2143-83: CAN comm err (VCM/HCM)
	• U2143-87: CAN comm err (VCM/HCM)
	• U2148-83: CAN comm err (brake control unit)
	• U2148-87: CAN comm err (brake control unit)
	• U214F-83: CAN comm err (BCM)
	• U214F-87: CAN comm err (BCM)
	• U2152-83: CAN comm err (ADAS control unit)
	• U2152-87: CAN comm err (ADAS control unit)
	• U2156-87: CAN comm err (steering angle sensor)
	• U215B-83: CAN comm err (IPDM E/R)
	• U215B-87: CAN comm err (IPDM E/R)
	• U275F-88: Ethernet circuit

DTC Index

SIEMD-7109707

×: Applicable

Self Diagnostic Result

DTC		Items (CONSULT screen terms)	Fail-safe									AEB	RAB	I-FCW	Reference
			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				
C2580	45	Distance sensor	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	47		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	48		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	4B		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	55		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2581	78	Distance sensor	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	92		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2582	97	Distance sensor	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2584	02	Distance sensor	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2585	87	CAN comm err	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2587	16	POWER SUPPLY CIRCUIT	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	17		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2588	82	ADAS control unit	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	87		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C258B	82	VCM/HPCM	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C258E	81	ABS	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	82		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	87		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C258F	81	IPDM E/R	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	82		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	87		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
C2591	81	BCM	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	82		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	87		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description

DTC		Items (CONSULT screen terms)	Fail-safe												Reference
			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	
C2595	81	EPS control unit	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	86		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
	87		×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2143	83	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2148	83	CAN comm err (brake control unit)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U214F	83	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2152	83	CAN comm err (ADAS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U215B	83	CAN comm err (IPDM E/R)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U275F	88	Ethernet circuit	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A07	88	CAN comm err (ITS2-CAN Bus Off)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description

*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

×: Applicable

Network-DTC

DTC		Items (CONSULT screen terms)	Fail-safe												Reference
			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	
U2104	87	CAN comm err (active steering)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2140	87	CAN comm err (ECM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2141	87	CAN comm err (TCM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2143	87	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2148	87	CAN comm err (brake control unit)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U214F	87	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2152	87	CAN comm err (ADAS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2156	87	CAN comm err (steering angle sensor)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U215B	87	CAN comm err (IPDM E/R)	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description

*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

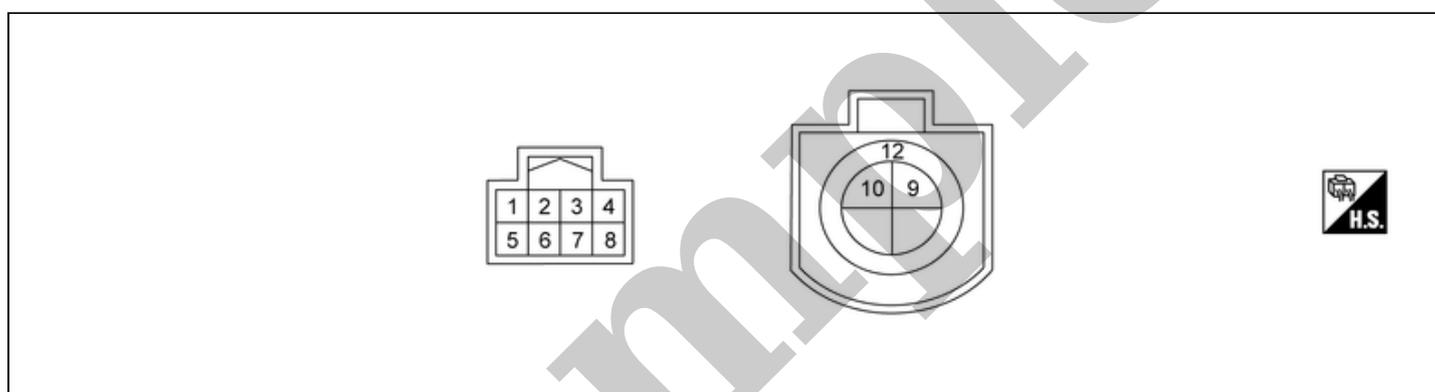# VALUES ON THE DIAGNOSIS TOOL

> **NOTE:**
> The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Condition		Value/Status
AIMING DONE	Power switch ON	When the camera aiming is not completed	0
		When the camera aiming is completed	1
AIMING RESULT	Power switch ON	When the camera aiming is NG completed	0
		When the camera aiming is normal completed	1
AIM NG REASON	Power switch ON	When the camera aiming is normal completed	0
		When the front camera unit has an internal communication error	1
		When the front camera unit has an internal data error	2
		When the front camera unit has a target information error	3
		When the front camera unit has a aiming mode error	4
		When a timeout occurs	5
		When the front camera unit cannot transition to aiming mode	6
		When the front camera unit has a memory writing error	7
		When the condition of the front camera unit installation is not correct	8
		When all correction values are outside the threshold	9
		When NG reason is unknown	16
		When the front camera unit cannot detect the target	18
		When the roll angle is outside the threshold	19
		When the front camera unit cannot calculate the aiming correction values	20
		When the front camera unit cannot read the distance to target board	21
		When the entered "Dt" value is not correct	22
		When the entered "Ts" value is not correct	23
		When the yaw correction values are outside the threshold	24
		When the pitch correction values are outside the threshold	25
		When several targets are detected	26
		When an error is detected during the camera aiming	27
		When NG reason is unknown	255
AIM YAW	Power switch ON		0 ± 3.0 deg

Monitor item	Condition		Value/Status
AIM ROL	Power switch ON		0 ± 3.0 deg
AIM PIT	Power switch ON		0 ± 3.0 deg
FCTRY AIM YAW	Power switch ON		0 ± 3.0 deg
FCTRY AIM ROL	Power switch ON		0 ± 3.0 deg
FCTRY AIM PIT	Power switch ON		0 ± 3.0 deg
Configuration result 1	Power switch ON	When the configuration is completed	Finished
		When the configuration is not completed	Unfnshd
Configuration status	Power switch ON	When the configuration is completed	OK
		When the configuration is not completed	NG1
		When the threshold is out of range	NG2
		When the front camera unit has internal malfunction	NG3
		When the front camera unit has internal malfunction	NG4
		When the front camera unit has communication error	NG5
		When the front camera unit fails to write	NG6
Heater system	Power switch ON		Off
ECU power supply voltage	Power switch ON		6.4 – 16 V
Configuration type	Power switch ON		Type2
Engine type	Power switch ON		Gasoline
Manufacturer	Power switch ON		Nissan
Vehicle width	Power switch ON		1.84
Transmission type	Power switch ON		AT/CVT
ALH	Power switch ON	When the ALH system is installed	On
		When the ALH system is not installed	Off
HBA function	Power switch ON	When the HBA is ON	On
		When the HBA is OFF	Off
Camera image bottom	Power switch ON		24 pixel
Camera height	Power switch ON		1,501 mm
Camera distance 1	Power switch ON		895 mm
Camera distance 2	Power switch ON		943 mm
Camera offset	Power switch ON		0 mm
Camera pitch	Power switch ON		0.609 deg
Vehicle speed	While driving		Almost the same speed as speedometer indication
ECU operating state	Power switch ON	When the front camera unit has any malfunction	Unknown
		When the front camera unit is waiting to start (The display changes depending on the standby state)	PENDING
			State4
			State7
			State8
			State9

Monitor item	Condition			Value/Status
				State10
				State11
				State12
				State13
		When the front camera unit is operating normally		State3
		When the front camera unit is operating in a mode other than normal (The display changes depending on the operating status)		State5
				State6
				State14
				State15
				State16
				State17

TERMINAL LAYOUT (WITHOUT ProPILOT ASSIST 2.0)

PHYSICAL VALUES (WITHOUT ProPILOT ASSIST 2.0)

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	–	Signal name	Input/Output		
2 (R)	—	ITS CAN communication-L	—	—	—
4 (R)	5 (B)	Heater power supply	Output	Heater ON	Battery voltage
5 (B)	Ground	Ground	Input	Power switch ON	0 V
6 (BR)	—	ITS CAN communication-H	—	—	—
8 (P)	Ground	Power switch ON power supply	—	Power switch ON	Battery voltage
9 (Y)	—	Ethernet(-)	—	—	—