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2021 NISSAN NV200 Service and Repair Manual

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

Monitored item [Unit]	ALL SIGNALS	ECU INPUT SIGNALS	MAIN SIGNALS	Description
Horizontal alignment value [deg]	×			Indicates the alignment value (Horizontal value)

WORK SUPPORT

Work support items	Description
Side radar alignment	Outputs side radar, calculates dislocation of the side radar, and displays adjustment direction
OTA status reset	**NOTE:** **The item is displayed, but it is not used**

Side radar alignment

Refer to Work Procedure.

ECU IDENTIFICATION

Displays side radar front LH parts number.

CONFIGURATION

Vehicle specification can be written, when side radar front LH is replaced.

NETWORK-DTC

Displays the network-DTCs judged by side radar front LH, when all self-diagnosis is performed. Refer to DTC Index.

SIEMD-7255968

APPLICATION ITEMS

CONSULT performs the following functions via CAN communication using side radar front RH.

Diagnosis mode	CGW Status			Description
	Restricted Mode	Diag Test Mode	Open Mode	
Self Diagnostic Result	Display	Display	Display	Retrieve DTC from ECU and display diagnostic items
CGW Information	Display	Display	Display	• Display the current CGW mode • Enables CGW to switch mode
Data Monitor	Display	Display	Display	Monitor the input/output signal of the control unit in real time
Work Support	Non-display	Non-display	Display	This mode enables a technician to adjust some devices faster and more accurately
ECU Identification	Display	Display	Display	Display the ECU identification number (part number etc.) of the selected system
Configuration*	Display	Display	Display	The vehicle specification can be written when the control unit is replaced
Network-DTC*	Display	Display	Display	Display network DTC which the control unit memorizes when performing "Diagnosis (All System)".

*: Displays when performing "Diagnosis (All System)".

SELF DIAGNOSTIC RESULT

Refer to DTC Index.

FFD (Freeze Frame Data)

The side radar records the following data when the malfunction is detected.

CONSULT screen item (Indication/Unit)	Description
ODO/TRIP METER (Km)	Mileage of the moment a particular DTC is detected
DTC count	Indicates the detection count of the corresponding DTC

CGW INFORMATION

Display the diagnosis mode which a user can perform in Diag Test mode/Open Mode by switching the CGW status from Restricted mode to Diag Test Mode/Open Mode.

For the method of switching CAN Gateway status, Refer to CONSULT Function.

DATA MONITOR

NOTE:

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

Monitored item [Unit]	ALL SIGNALS	ECU INPUT SIGNALS	MAIN SIGNALS	Description
Horizontal alignment value [deg]	×			Indicates the alignment value (Horizontal value)

WORK SUPPORT

Work support items	Description
Side radar alignment	Outputs side radar, calculates dislocation of the side radar, and displays adjustment direction
OTA status reset	**NOTE:** **The item is displayed, but it is not used**

Side radar alignment

Refer to Work Procedure.

ECU IDENTIFICATION

Displays side radar front RH parts number.

CONFIGURATION

Vehicle specification can be written, when side radar front RH is replaced.

NETWORK-DTC

Displays the network-DTCs judged by side radar front RH, when all self-diagnosis is performed. Refer to DTC Index.

SIEMD-7255966

APPLICATION ITEMS

CONSULT performs the following functions via CAN communication using driver monitor camera control unit.

Diagnosis mode	CGW Status			Description
	Restricted Mode	Diag Test Mode	Open Mode	
Self Diagnostic Result	Restricted Mode	Diag Test Mode	Open Mode	Retrieve DTC from ECU and display diagnostic items
CGW Information	Display	Display	Display	• Display the current CGW mode • Enables CGW to switch mode
Data Monitor	Display	Display	Display	Monitor the input/output signal of the control unit in real time
Work Support	Non-display	Non-display	Display	This mode enables a technician to adjust some devices faster and more accurately
ECU Identification	Display	Display	Display	Display the ECU identification number (part number etc.) of the selected system
Configuration*	Display	Display	Display	The vehicle specification can be written when the control unit is replaced
Network-DTC*	Display	Display	Display	Display network DTC which the control unit memorizes when performing "Diagnosis (All System)".
CAN Diag Support Monitor	Display	Display	Display	It monitors the status of CAN communication

*: Displays when performing "Diagnosis (All System)".

SELF DIAGNOSTIC RESULT

Refer to DTC Index.

FREEZE FRAME DATA (FFD)

CONSULT screen item (Indication/Unit)	Description
ODO/TRIP METER	Mileage of the moment a particular DTC is detected
DTC count	Indicates the detection count of the corresponding DTC
Supplier Fault Code	**NOTE:** **The item is displayed, but it is not used**

CGW INFORMATION

Display the diagnosis mode which a user can perform in Diag Test mode/Open Mode by switching the CGW status from Restricted mode to Diag Test Mode/Open Mode.

For the method of switching CAN Gateway status, Refer to CONSULT Function.

DATA MONITOR

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

Monitored item [Unit]	Description
Left eye [Invalid/Open/Close]	Displays opened or closed state of driver's left eye.
Right eye [Invalid/Open/Close]	Displays opened or closed state of driver's right eye.
Face angle (Pitch) [deg]	Displays driver's face angle (Pitch)
Face angle (Roll) [deg]	Displays driver's face angle (Roll)
Face angle (Yaw) [deg]	Displays driver's face angle (Yaw)
Horn pad [Not detected/Detected]	Displays shielding status of the driver monitor camera by horn pad
Dust [Not detected/Detected]	Displays dirt status of front of driver monitor camera.
Numbers sitting on driver seat [One/Multiple]	Displays status of number of passengers in the driver's seat
Obstacles [Not detected/Detected]	Displays driver monitor camera shielding status by obstacles
Camera lens against the light [Not detected/Detected]	Displays sunlight affect status on the image.
Malfunction detected reason [NoFailure/Reason1 - 4]	Displays malfunction status of driver monitor camera and its control unit.
Drowsy driving judgement [OK/NG1 - 35]	Displays driver's doze status
Distracted driving judgement [OK/NG1 - 63]	Displays driver's looking aside status
Visual angle (Yaw) [deg]	Displays line-of-sight angle (Yaw)
Visual angle (Pitch) [deg]	Displays line-of-sight angle (Pitch)
Face location Z	Displays Z-axis value of face position

Monitored item [Unit]	Description
[pixel]	
Face location Y [pixel]	Displays Y-axis value of face position
Face location X [pixel]	Displays X-axis value of face position
Start-up status [Running/OK/NG]	Displays startup status of the driver monitor camera
Left eye location X	Displays X-axis value of left eye position
Left eye location Y	Displays Y-axis value of left eye position
Left eye location Z	Displays Z-axis value of left eye position
Right eye location X	Displays X-axis value of right eye position
Right eye location Y	Displays Y-axis value of right eye position
Right eye location Z	Displays Z-axis value of right eye position
Outer corner of left eye [Not detected/Detected]	Displays detection status of the outer corner of left eye
Inner corner of left eye [Not detected/Detected]	Displays detection status of the inner corner of left eye
Outer corner of right eye [Not detected/Detected]	Displays detection status of the outer corner of right eye
Inner corner of right eye [Not detected/Detected]	Displays detection status of the inner corner of right eye
Left nostril [Not detected/Detected]	Displays detection status of the left nose hole
Right nostril [Not detected/Detected]	Displays detection status of the right nose hole
Left end of mouth [Not detected/Detected]	Displays detection status at the left end of mouth
Right end of mouth [Not detected/Detected]	Displays detection status at the right end of mouth
	Displays detection status of the left ear

Monitored item [Unit]	Description
Left ear [Not detected/Detected]	
Right ear [Not detected/Detected]	Displays detection status of the right ear
Nose tip [Not detected/Detected]	Displays detection status of the nose
Glasses [Not detected/Detected]	Displays detection status of the glasses
Face [Not detected/In range/Out of range]	Displays detection status of the face

WORK SUPPORT

Work support items	Description
FACIAL RECOGNITION CHECK	Can check that face orientation angle is correctly recognized by the driver monitor camera.
OTA status reset	**NOTE:** **The item is displayed, but it is not used**

ECU IDENTIFICATION

Displays driver monitor camera control unit parts number.

SIEMD-7521795

1. CHECK FRONT CAMERA UNIT HEATER

Check the resistance between the front camera unit heater terminals.

Front camera unit heater		Resistance [Ω]
Terminal		
1	4	7 – 20

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace the front camera unit heater.

1. CHECK CONNECTOR

1. Turn the power switch OFF.
2. Check the terminals and connectors of the side radar rear LH/RH for damage, bend and short (unit side and connector side).

Is the inspection result normal?

YES>>

GO TO 2.

NO>>

Repair the terminal or connector.

2. CHECK CONTINUITY OF RIGHT/LEFT SWITCHING SIGNAL CIRCUIT

1. Disconnect side radar rear LH/RH connector.
2. Check continuity between side radar rear LH/RH harness connector and ground.

Side radar rear RH		Ground	Continuity	
Connector	Terminal			
B254	7		Yes	

Is the inspection result normal?

YES>>

Inspection End.

NO>>

Repair harness or connector.