

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 Murano Service and Repair Manual

[Go to manual page](#)

- AEB: Refer to [System Description](#).
- ProPILOT Assist: Refer to [System Description](#).
- LDW: Refer to [System Description](#).
- I-LI: Refer to [System Description](#).
- I-BSI: Refer to [System Description](#).
- TSR: Refer to [System Description](#).
- RAB: Refer to [System Description](#).

PARTS LOCATION

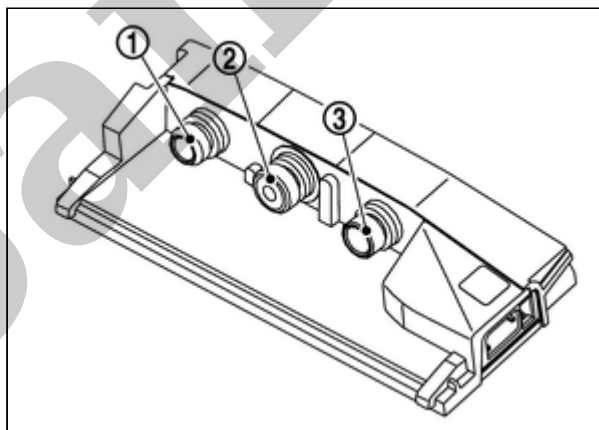
Refer to [Component Parts Location](#).

WITH ProPILOT ASSIST 2.0

FUNCTIONS WITHIN THE SYSTEM

- The front camera unit obtains information of vehicle ahead and side.
- The front camera unit adopts a Tri-cam equipped three cameras with different image angles and focal distances.

- ①: For medium distance
- ②: For short distance (wide)
- ③: For long distance (telephoto)



SIEMD-7109419-02-000269530

- Front camera unit detects vehicle in the detection zone, and controls following systems.
 - AEB
 - ProPILOT Assist 2.0
 - LDW
 - I-LI
 - I-BSI
 - TSR
 - RAB
- The heater output circuit is built in the front camera unit.
- The front camera unit heats the heat wire built in the windshield glass to prevent condensation or fogging.

- Condition of heater output
 - When front window defroster is used
 - When rear window defogger is used
 - When wiper is operated
 - When judging ambient temperature is low
 - When judging the front camera unit is shielded

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

- The multi-sensing front camera that can avoid various risks lurking forward and sideward with one camera is adopted.
- Front camera unit is installed to windshield, and detects the lane marker in travel lane and pedestrian ahead.
- When there is vehicle or pedestrian, front camera unit measures the distance from them.

INDIVIDUAL OPERATION

- AEB: Refer to [System Description](#).
- ProPILOT Assist 2.0: Refer to [System Description](#).
- LDW: Refer to .
- I-LI: Refer to [System Description](#).
- I-BSI: Refer to [System Description](#).
- TSR: Refer to [System Description](#).
- RAB: Refer to [System Description](#).

PARTS LOCATION

Refer to [Component Parts Location](#).

FUNCTIONS WITHIN THE SYSTEM

- When approaching the lane marker of the right side or the left side, the steering vibration motor vibrates the steering wheel and alerts the driver.
- The steering vibration motor alerts the driver for the following systems.
 - LDW
 - I-LI

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

- When a motor operation signal is received from the ADAS control unit 2, the steering vibration motor activates.

INDIVIDUAL OPERATION

- LDW: Refer to [System Description](#).
- I-LI: Refer to [System Description](#).

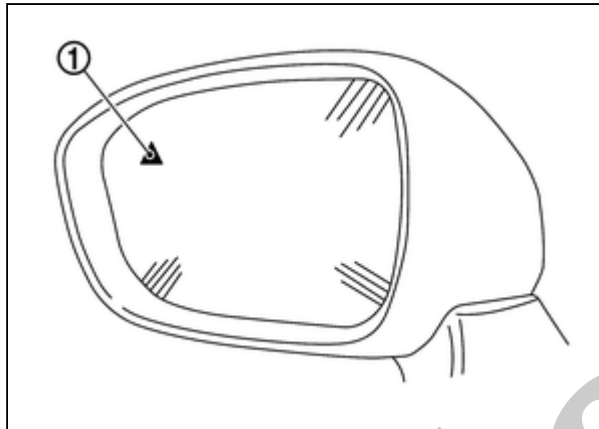
PARTS LOCATION

Refer to [Component Parts Location](#).

Sample

FUNCTIONS WITHIN THE SYSTEM

- The BSW indicator ① warns the driver by lighting/blinking.



SIEMD-7109726-01-000310501

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

- Receives a BSW indicator operation signal from the side radar LH/RH and blinks or turns ON/OFF the BSW indicator.

INDIVIDUAL OPERATION

- BSW: Refer to [System Description](#).
- I-BSI: Refer to [System Description](#).
- RCTA: Refer to [System Description](#).

PARTS LOCATION

Refer to [Component Parts Location](#).

FUNCTIONS WITHIN THE SYSTEM

The ProPILOT Park switch is used to active/deactivate the ProPILOT Park system.

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

The around view monitor control unit detects active/deactivate of the ProPILOT Park system by operating the ProPILOT Park switch.

INDIVIDUAL OPERATION

Transmit the ProPILOT Park switch OFF/ON signal to the around view monitor control unit.

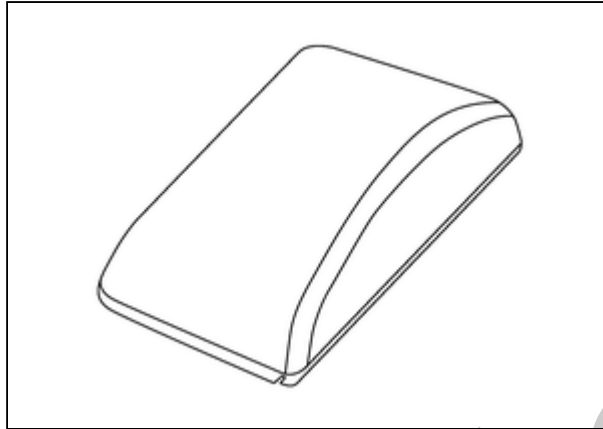
PARTS LOCATION

Refer to [Component Parts Location](#).

Sample

FUNCTIONS WITHIN THE SYSTEM

The driver monitor camera transmits the driver's video information to the driver monitor camera control unit while driving.



SIEMD-7307332-01-000366476

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

The analog image information taken through the lens is converted to the digital signal and output.

INDIVIDUAL OPERATION

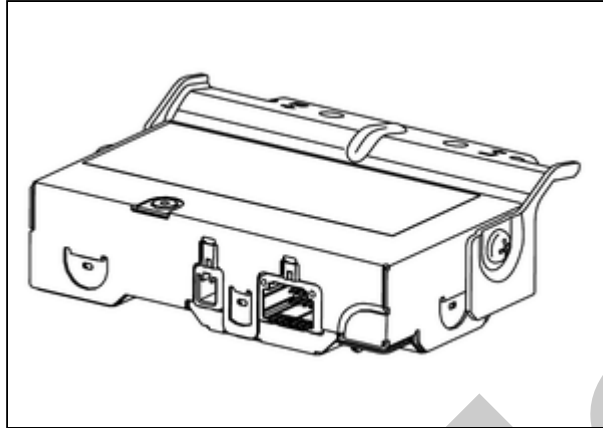
Driver monitor system: Refer to [System Description](#).

PARTS LOCATION

Refer to [Component Parts Location](#).

FUNCTIONS WITHIN THE SYSTEM

The driver monitor camera control unit judges driver's aside, dozing, etc. while driving based on the video information from driver monitor camera.



SIEMD-7307333-02-000366477

INDIVIDUAL FUNCTIONS WITHIN THE SYSTEM

The driver's condition is judged by image analysis.

INDIVIDUAL OPERATION

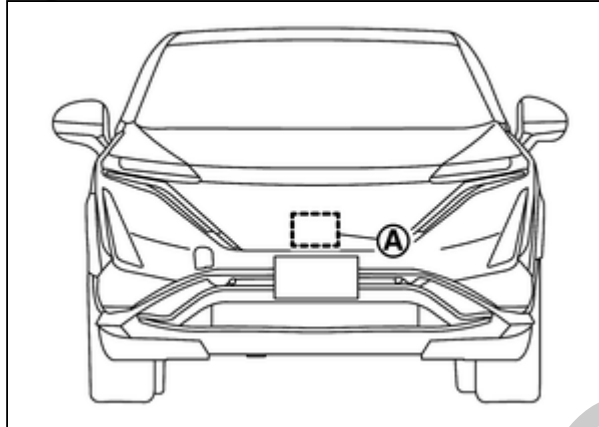
Driver monitor system: Refer to [System Description](#).

PARTS LOCATION

Refer to [Component Parts Location](#).

PRECAUTIONS FOR DISTANCE SENSOR

- Always keep the distance sensor area **A** of the front grill clean.



SIEMD-7109525-01-000349815

- Do not strike or damage the areas around the distance sensor.
- Do not cover or attach stickers or similar objects on the front grill near the distance sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the distance sensor area (brush guard, etc.). This could cause failure or malfunction.

PRECAUTIONS FOR I-FCW

Failure to follow the warnings and instructions for proper use of the I-FCW system could result in serious injury or death.

- The I-FCW system helps warn the driver before a collision but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

Listed below are the system limitations for the I-FCW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The I-FCW system cannot detect all vehicles under all conditions.
- The radar sensor does not detect the following objects:
 - Pedestrians, animals or obstacles in the roadway
 - Oncoming vehicles
 - Crossing vehicles
- The I-FCW system does not function when a vehicle ahead is a narrow vehicle, such as a motorcycle.
- The radar sensor may not detect a vehicle ahead in the following conditions:
 - Snow or heavy rain
 - Dirt, ice, snow or other material covering the radar sensor
 - Interference by other radar sources
 - Snow or road spray from travelling vehicles.
 - Driving in a tunnel
 - Towing a trailer (AWD models)
- When the vehicle ahead is being towed.
- When the distance to the vehicle ahead is too close, the beam of the radar sensor is obstructed.

- When driving on a steep downhill slope or roads with sharp curves.
- The system is designed to automatically check the sensor's functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear the sensor area regularly.
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

Sample