

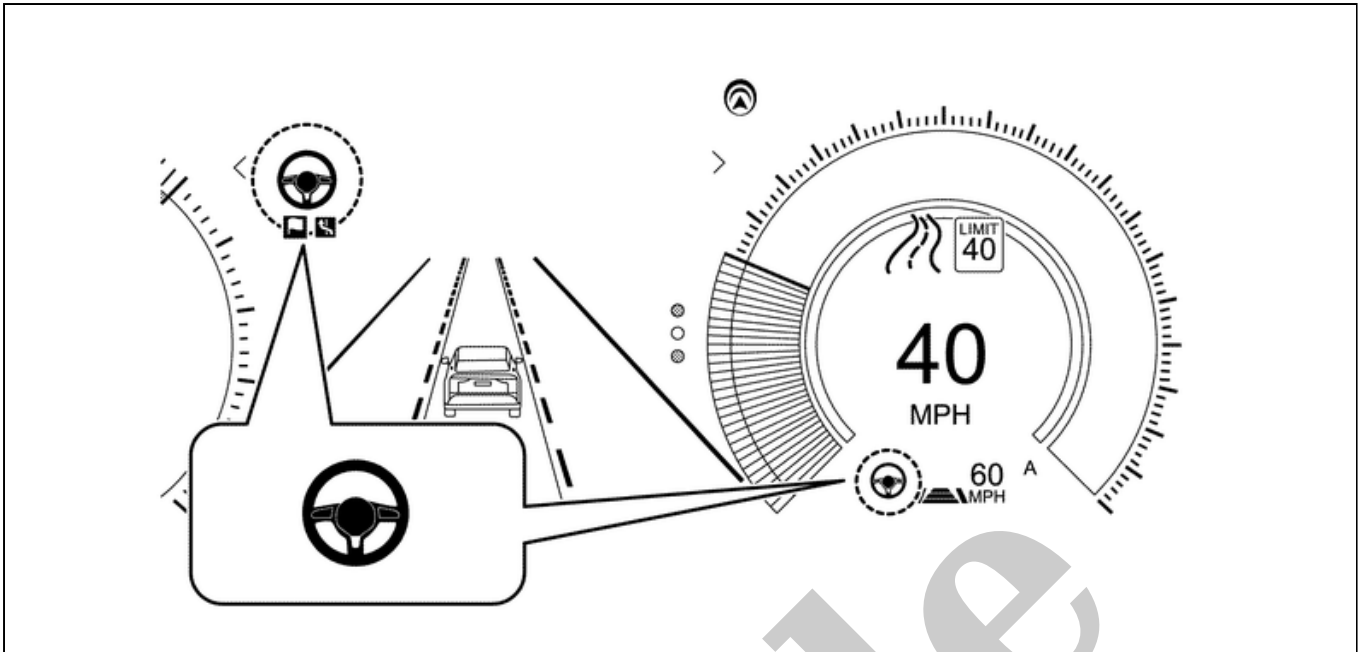
# Your Ultimate Source for OEM Repair Manuals

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## 2018 NISSAN Altima OEM Service and Repair Workshop Manual

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- When travel on highway or motorway with HD map, the steering support operation indicator turns ON in blue. ( ProPILOT Assist 2.0 display turns blue)



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However, in the following cases, ProPILOT Assist 2.0 display does not turn blue.

- When travelling beyond the speed detected by the sign detection function
- When there are points where the number of lanes decreases nearby tollhouses, exits, road splits, or intersections
- When no GPS signal is received
- When driving on a road that is not separated from the oncoming lane
- When wiper is operated at low speed or high speed
- When judging that driver does not hold or not operate the steering wheel
- When driver is not looking forward
- When accelerating by depressing accelerator pedal
- When approaching warning is activated
- When lane departure warning is activated



**NOTE:**

- **When the combination meter displays "Some steering support function cannot be operated", the steering support operation does not display and the display of ProPILOT Assist 2.0 does not turn blue.**
- **The driver's steering operation is always prioritized.**

- In the following cases, the steering support operation display changes from blue to green with warning sound, and "Hold steering wheel" is displayed. (The display of ProPILOT Assist 2.0 turns green)

**CAUTION:**

**When the ProPILOT Assist 2.0 display turns green, hold the steering wheel immediately.**

- When traveling on no longer highway or motorway
- When approaching section without HD map
- When the speed detected by the sign detection function is exceeded

- When approaching a sharp curve, tollhouse, exit, road split, intersection, or points where the number of lanes decreases
- When approaching the exit of highway or motorway without tollhouse
- When approaching two-way section
- When driving in a tunnel
- When GPS signals can no longer be received
- When traveling in section where road splitting and merging continue
- When traveling on narrow lanes
- When section with traffic restrictions such as a construction section is detected
- When driver cannot be detected
- When driver keeps not facing forward
- When wiper is operated at low speed
- When the approach warning is activated



**NOTE:**

**When wiper switch position is AUTO, wiper may be operated at high speed or low speed depending on the amount of rainfall and vehicle speed.**

- In the following cases, the steering support operation display changes from blue to green with warning sound, and screen (red) requesting steering operation is displayed. (The display of ProPILOT Assist 2.0 turns green)
  - When it is determined that HD map and the actual road are different
  - When the lane departure warning is activated
- When depressing accelerator pedal while holding the steering wheel, the steering support operation display changes from blue to green. (The display of ProPILOT Assist 2.0 turns green)

## CANCELLATION CONDITION

- In the following cases, the steering support operation display is turned off with sound, and the lane keeping function is cancelled. (The display of ProPILOT Assist 2.0 turns white)
  - When vehicle speed/vehicle-to-vehicle distance control function is cancelled
  - When lane marker is no longer detected
  - When approaching tollhouse, exit, road split, intersection, or points where the number of lanes decreases (when travelling on road with HD map)
  - When driver steers
  - When turn signal is operated (when the ProPILOT Assist 2.0 display is green)
  - When wiper is operated at high speed
  - When visibility of front camera unit cannot be secured due to rain, snow, fog, or freezing or dirt on the windshield glass in front of the front camera unit
  - When receiving strong light from the front
  - When the temperature of front camera unit and its surroundings are high



**NOTE:**

- **When approaching road without HD map, the road area is judged as an exit of highway or motorway and ProPILOT Assist 2.0 is cancelled.**

- When wiper switch position is AUTO, the wiper may be operated at high speed or low speed according to amount of rainfall and vehicle speed.
- When wiper is operated at high speed and the lane keeping function is cancelled, the lane keeping function cannot be restarted unless ProPILOT Assist 2.0 is cancelled once.

- When approaching tollhouse, road splits, intersections, etc.
  - When approaching tollhouse, road splits, intersections while travelling with blue display of ProPILOT Assist 2.0, ProPILOT Assist 2.0 display turns green etc.



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- After ProPILOT Assist 2.0 display turns green, when getting closer, screen (red) requests with a sound to steer the vehicle.
- When driver operates steering, lane keeping function is cancelled.



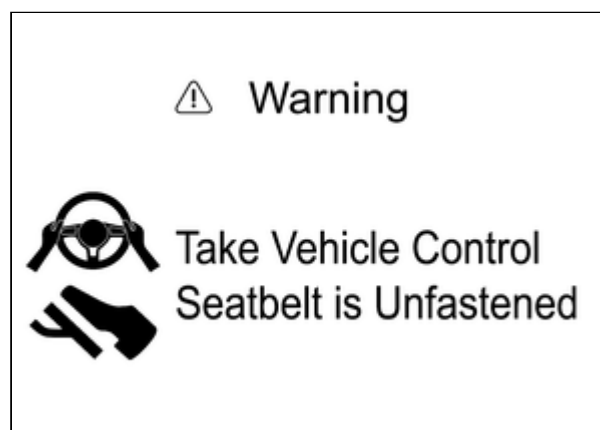
**NOTE:**

- When driver's steering operation is not detected, an emergency warning sounds and "Deceleration" is displayed in the head-up display and combination meter and decelerates and stops the vehicle in an emergency.
- After making emergency stop of the vehicle, connect to SOS call service operator and then the operator requests rescue to public organizations (police, fire department, medical institution).
- When the emergency warning sound is activated, the vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamp automatically turns ON. When the steering is operated, the hazard lamp turns off automatically.

- When system is cancelled during blue display of ProPILOT Assist 2.0
  - When ProPILOT Assist 2.0 is cancelled, warning screen (red) requesting steering operation is displayed with warning sound.

**CAUTION:**

**When warning screen is displayed, operate steering immediately.**



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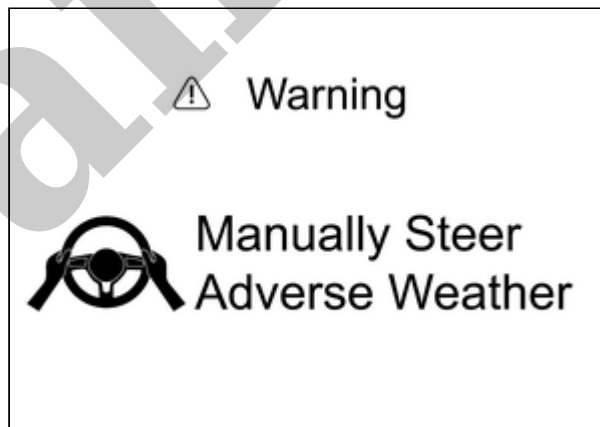


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- When driver operates steering, vehicle speed/vehicle-to-vehicle distance control function and lane keeping function are canceled.
- If driver's steering operation is not detected, emergency warning sounds and "Deceleration" is displayed in the head-up display and combination meter to decelerate and make emergency stop.
- After making emergency stop of vehicle, connect to SOS call service operator and then operator requests rescue from public organization (police, fire, medical institutions).
- When emergency warning sound is activated, vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamps automatically turn ON. When steering is operated, hazard lamps turn off automatically.
- When lane keeping function is cancelled during blue display of ProPILOT Assist 2.0
- When lane keeping function is cancelled, warning screen (red) requesting steering operation is displayed with warning sound.

**CAUTION:**

**When warning screen is displayed, operate steering immediately.**



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- When driver operates steering, lane keeping function is cancelled

**NOTE:**

- If driver's steering operation is not detected even after warning, emergency warning sounds and "Deceleration" is displayed in the head-up display and combination meter to decelerate and make emergency stop.
- After making emergency stop of vehicle, connect to SOS call service operator and then operator requests rescue from public organization (police, fire, medical institutions).
- When emergency warning sound is activated, vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamps automatically turn ON. When steering is operated, hazard lamps turn off automatically.

## ALARM AND WARNING

- When driver is judged that driver does not pay attention to the situation ahead

**CAUTION:**

**Driver should always be careful ahead and drive.**

- Driver monitor camera monitors the orientation of driver's face and open/closed eyes state.
- If driver is judged not to pay attention to the situation ahead during blue display of ProPILOT Assist 2.0, a warning is given by sound and display to pay attention to the situation ahead.









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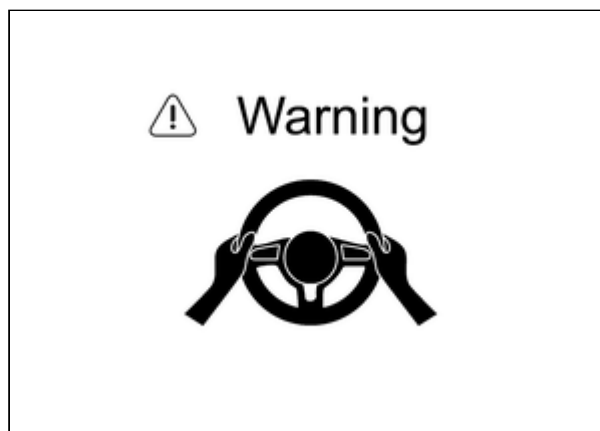
- When driver continues not to pay attention to the situation ahead, the driver is gradually warned by sound, display and short-time brake control to operate steering.
- If driver's steering operation is not detected even after warning, emergency warning sounds and "Deceleration" is displayed in the head-up display and combination meter to decelerate and make emergency stop.
- After making emergency stop of vehicle, connect to SOS call service operator and then operator requests rescue from public organization (police, fire, medical institutions).

**NOTE:**

- Driver monitor camera may be unable to detect driver when the contours of eyes, nose, mouth or face are hidden, such as when wearing sunglasses, face mask, eyepatch, hat, mufflers, etc.
- When emergency warning sound is activated, vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamps automatically turn ON. When steering is operated, hazard lamps turn off automatically.

Display	Description	Action
 <b>Warning</b>  <b>Look Forward</b> SIEMD-7307209-MD-7307209-15-000399709OffOff-9C973820-000399709	<ul style="list-style-type: none"> <li>◦ When judges that driver does not to pay attention to the situation ahead</li> <li>◦ Warns with sound and display (red)</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver faces forward and always pay attention to the situation ahead</li> <li>◦ Warning is turned OFF when driver faces forward</li> </ul>
 <b>Warning</b>  <b>Manually Steer</b> SIEMD-7307209-MD-7307209-16-000399725OffOff-9C973BDC-000399725	<ul style="list-style-type: none"> <li>◦ When driver continues not to pay attention to the situation ahead</li> <li>◦ Warns gradually by sound, display and short-time brake control</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver holds and operates steering immediately</li> <li>◦ Warning is turned OFF when driver's steering operation is detected</li> </ul>
 <b>Warning</b>  <b>Slowing to Stop</b> SIEMD-7307209-MD-7307209-17-000399712OffOff-9C974015-000399712	<ul style="list-style-type: none"> <li>◦ When driver continues not to operate steering even after warning</li> <li>◦ Emergency warning sounds, vehicle slows down, and vehicle makes emergency stop</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver holds and operates steering immediately</li> <li>◦ Warning is turned OFF when driver's steering operation is detected and ProPILOT Assist 2.0 system is cancelled</li> </ul>

- When driver is judged not to hold steering wheel
  - Driver is monitored if holding or operating steering wheel under operation of lane keeping function.
  - When driver is judged not to hold or operate steering wheel during green display of ProPILOT Assist 2.0, warning display is given to driver to operate steering.



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**CAUTION:**

**When ProPILOT Assist 2.0 display is green, be sure to drive by holding steering wheel.**



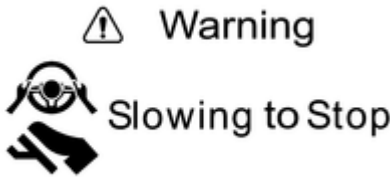
- When driver does not operate steering, the driver is gradually warned by sound, display and short-time brake control.

- When driver continues not to operate steering even after warning, emergency warning sounds and "Deceleration" is displayed in the head-up display and combination meter to decelerate and make emergency stop.
- After making emergency stop of vehicle, connect to SOS call service operator and then operator requests rescue from public organization (police, fire, medical institutions).



**NOTE:**

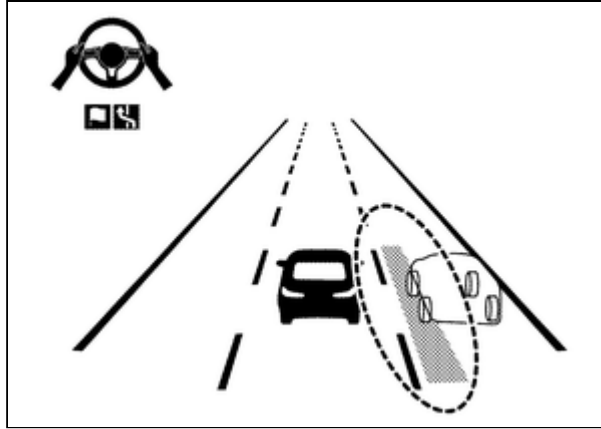
- **Steering wheel holding detection not accurate in the following conditions. Therefore, even if steering wheel is held, a warning may be displayed.**
  - **When driver is wearing gloves**
  - **When cover is attached to steering wheel**
  - **When gripping leather joints or spokes**
- **When emergency warning sound is activated, vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamps automatically turn ON. When steering is operated, hazard lamps turn off automatically.**

Display	Description	Action
 <p>Warning</p> <p>SIEMD-7307209-MD-7307209-20-000399703OffOff-9C974966-000399703</p>	<ul style="list-style-type: none"> <li>◦ Driver does not hold or operate steering wheel</li> <li>◦ Warns by display (red)</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver holds and operates steering immediately</li> <li>◦ Warning is turned OFF when driver's steering operation is detected</li> </ul>
 <p>Warning</p> <p>Manually Steer</p> <p>SIEMD-7307209-MD-7307209-19-000399725OffOff-9C974CA2-000399725</p>	<ul style="list-style-type: none"> <li>◦ Displays when driver does not operate steering even after warning</li> <li>◦ Warns gradually by sound, display and short-time brake control</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver holds and operates steering immediately</li> <li>◦ Warning is turned OFF when driver's steering operation is detected</li> </ul>
 <p>Warning</p> <p>Slowing to Stop</p> <p>SIEMD-7307209-MD-7307209-18-000399712OffOff-9C974F95-000399712</p>	<ul style="list-style-type: none"> <li>◦ When driver continues not to operate steering even after warning</li> <li>◦ Emergency warning sounds, vehicle slows down, and vehicle makes emergency stop</li> </ul>	<ul style="list-style-type: none"> <li>◦ Driver holds and operates steering immediately</li> <li>◦ Warning is turned OFF when driver's steering operation is detected and ProPILOT Assist 2.0 system is cancelled</li> </ul>

• SIDE ATTENTION DETECTION

When there is a vehicle on the side of own vehicle during blue of ProPILOT Assist 2.0, call attention by display.





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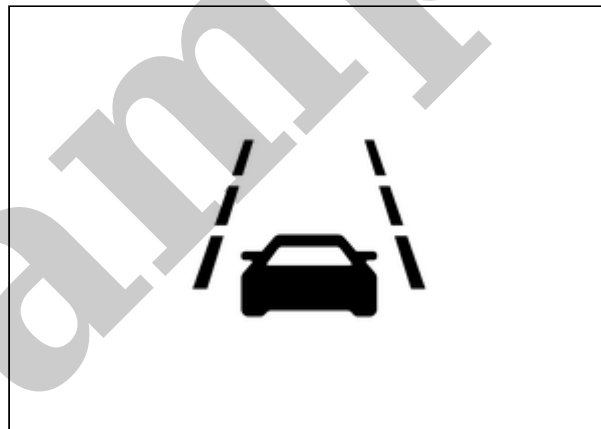
**CAUTION:**

**Own vehicle does not react even if the vehicle on the side approaches.**

- Pay particular attention to nearby vehicles and steer if necessary when driving in road split, curves, or when large lorries are driving in the next lane.

• LANE DEPARTURE WARNING

- When own vehicle judges to be approaching lane marker on right or left side of driving lane under operation of lane keeping function, LDW/I-LI in the combination meter is displayed accompanied by warning sound. The system) display and the lane detection display flash orange to alert the driver. When own vehicle judges to be approaching lane marker on the right or left side of the driving lane under operating lane keeping function, LDW/I-LI display and lane detection display are blinking in the combination meter along with warning sound to warn driver.

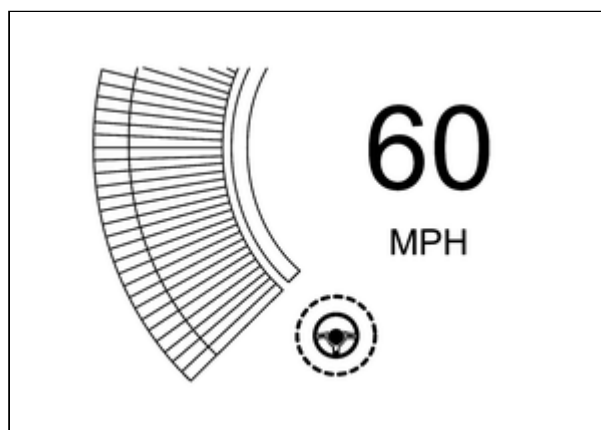


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- When lane departure warning is operated during blue display of ProPILOT Assist 2.0, the display also warns driver to operate steering.

• When lane keeping function is abnormal

- When lane keeping function is abnormal, steering wheel support warning lamp (orange) turns ON with warning sound, and lane keeping function is automatically cancelled.



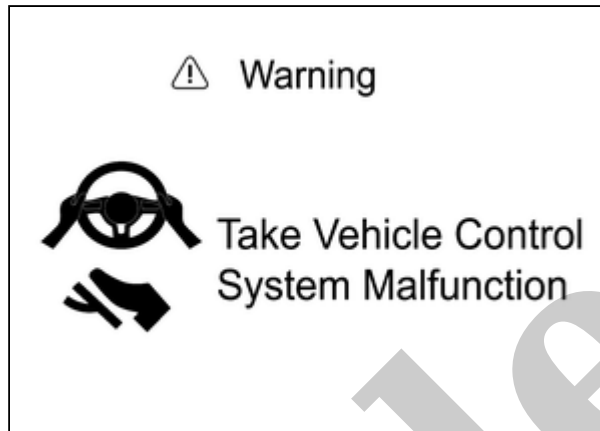
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**NOTE:**

For warning message, refer to [Operation](#).

- When system error is detected during blue display of ProPILOT Assist 2.0
  - When system error is detected during blue display of ProPILOT Assist 2.0, "Take Vehicle Control" and "Slowing to Stop" is displayed in the combination meter with emergency warning sound, and vehicle decelerates and makes emergency stop.



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- After making emergency stop of vehicle, connect to SOS call service operator and then operator requests rescue from public organization (police, fire, medical institutions).



**NOTE:**

**When emergency warning sound is activated, vehicle slows down below 65 km/h (40 MPH) approx., the hazard lamps automatically turn ON. When steering is operated, hazard lamps turn off automatically.**