



**JUKE**

OWNER'S MANUAL

## PROPILOT (where fitted)

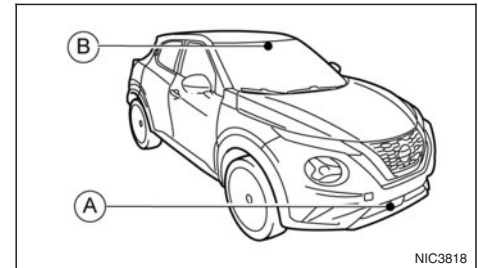
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability of detecting lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, contact a NISSAN dealer or qualified workshop.

### WARNING

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

- ProPILOT is not a self-driving system. Within the limits of its capabilities, as described in this manual, it helps the driver with certain driving activities.
- The ProPILOT system is not a replacement for proper driving procedure and is not designed to correct careless, inattentive or absent-minded-driving. ProPILOT will not always steer the vehicle to keep it in the lane. The ProPILOT system is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.
- There are limitations to the ProPILOT system capability. The ProPILOT system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.
- The ProPILOT system is only an aid to assist the driver and is not a collision warning or avoidance device.
- The ProPILOT system is for use on motorways with opposing traffic separated by a barrier only, and is not intended for city driving.
- Always observe the posted speed limits and do not set the speed over them.

- Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.
- The ProPILOT system does not react to stationary or slow moving vehicles.
- Always drive carefully and attentively when using the ProPILOT system. Read and understand the Owner's Manual thoroughly before using the ProPILOT system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ProPILOT system except in appropriate road and traffic conditions.



- (A) Radar sensor  
(B) Multi-sensing front camera

The ProPILOT system is intended to enhance the operation of the vehicle when following a vehicle travelling in the same lane and direction.

The ProPILOT system uses a multi-sensing front camera **(B)** installed behind the windscreen and a radar sensor located on the front of the vehicle **(A)** to measure the distance to the vehicle ahead in the same lane and to monitor the lane markers. If the vehicle detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance. The system will also help keep the vehicle centred in the travelling lane when clear lane markings are detected.

## PROPILOT SYSTEM OPERATION

The ProPILOT system has the following functions:

- **Intelligent Cruise Control (ICC)**
- **Steering Assist**

### Intelligent Cruise Control (ICC) (vehicles with ProPILOT)

The ICC system can be set to one of two cruise control modes:

- **Conventional (fixed speed) cruise control mode:**

Used for cruising at a preset speed.

#### NOTE

**Steering assist is not available in the conventional (fixed speed) cruise control mode.**

- **Vehicle-to-vehicle distance control mode:**

The ICC system maintains a selected distance from the vehicle in front of you within the speed range of 0 to 160 km/h (0 to 100 MPH) up to the set speed. The set speed can be selected by the driver between 30 and 160 km/h (20 and 100 MPH). When the ve-

hicle ahead slows to a stop, your vehicle gradually decelerates to a standstill. When the vehicle is stopped, the ICC system maintains braking force to keep your vehicle stationary.

#### NOTE

**When your vehicle is stopped for less than approximately 3 seconds and the vehicle ahead begins to move, your vehicle will start moving again automatically. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.**

- When the vehicle ahead begins to move forward, push the <RES+> button on the steering wheel or lightly depress the accelerator pedal to release the brake. The ICC system will restart to maintain a selected distance from the vehicle in front of you.
- When stationary and no vehicle is detected ahead the ICC will not function. The accelerator should be used to control the vehicle speed.

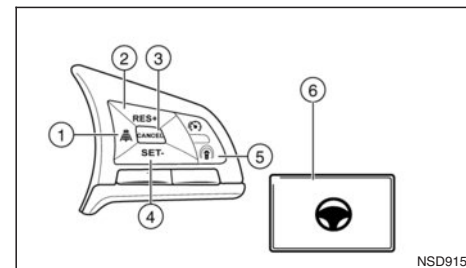
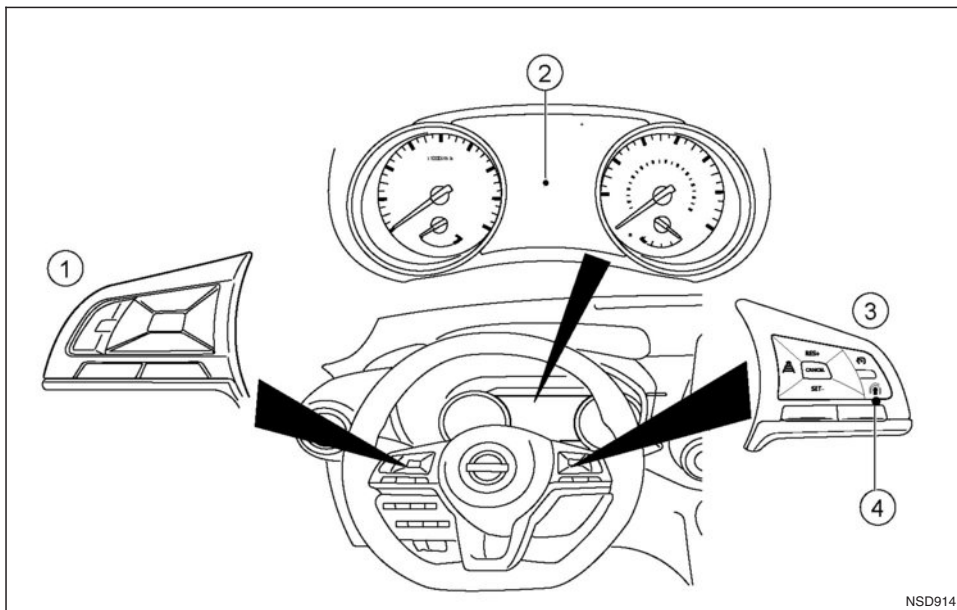
#### NOTE

**Even if the Intelligent Emergency Braking (IEB) setting is turned off by the driver using the [Settings] menu in the Vehicle Information Display, IEB will be turned on automatically when the ProPILOT is used.**

### Steering Assist (vehicles with ProPILOT)

The Steering Assist function controls the steering system to help keep your vehicle within the travelling lane.

Steering Assist is not available at speeds under 60 km/h (37 MPH) unless a vehicle is detected ahead.



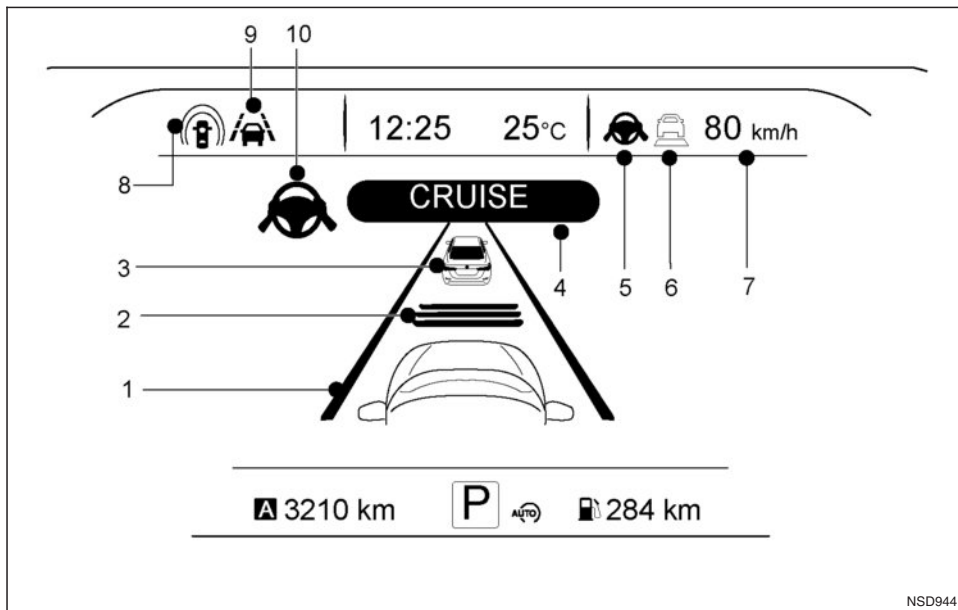
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## PROPILOT SWITCHES

- ① Steering wheel mounted controls (left)
- ② Vehicle Information Display
- ③ Steering wheel mounted controls (right)
- ④ ProPILOT switch

- 1) Distance switch
  - Long
  - Middle
  - Short
- 2) <RES+> switch  
Resumes set speed or increases speed incrementally.
- 3) <CANCEL> switch  
Deactivates the ProPILOT system
- 4) <SET-> switch  
Sets desired cruise speed or reduces speed incrementally
- 5) ProPILOT switch:  
Turns the ProPILOT system on or off
- 6) Steering Assist switch:  
Turns the Steering Assist function on or off





## PROPILOT SYSTEM DISPLAY AND INDICATORS

### 1) Lane marker indicator

Indicates whether the system detects lane markers

- No lane markers displayed: Steering Assist is turned off

### 2) Set distance indicator

Displays the selected distance.

- Lane marker indicator (grey): No lane markers detected
- Lane marker indicator (green): Lane markers detected
- Lane marker indicator (yellow): Lane departure is detected

### 3) Vehicle ahead detection indicator

When the ICC is ON and active this indicates whether the system detects a vehicle in front of you.

### 4) ProPILOT activation

Displays once the ProPILOT system is activated

### 5) Steering Assist status indicator/warning

Displays the status of the Steering Assist by the colour of the indicator/warning

- No Steering Assist status indicator displayed: Steering Assist is turned off.
- Grey: Steering Assist standby.
- Green: Steering Assist active.
- Yellow: Steering Assist malfunction.

### 6) Speed control status indicator/warning

Displays the status of speed control by the colour and shape of the indicator/warning

- Grey: ICC standby.
- Green (solid): ICC (distance control mode) is active (vehicle detected ahead). Your vehicle matches the speed of the vehicle ahead.
- Green (outline): ICC (maintain speed control mode) is active (no vehicle detected ahead). Your vehicle maintains the driver-selected set speed.
- Solid yellow: ICC malfunction.

### 7) Set vehicle speed indicator

Indicates the set vehicle speed.

- Grey numbers: ICC standby.
- Green numbers: ICC active

### 8) ProPILOT status indicator

Displays the status of ProPILOT Intelligent Blind Spot Intervention, Intelligent Lane Intervention, Steering Assist and ICC systems.

- White: systems are on (only if they are turned on in the [Settings] menu), ICC is in standby mode.
- Blue: ICC is active

### 9) ILI/LDW (lane) indicator

Indicates the status of the ILI and LDW system.

- Yellow (Blinking): ILI or LDW system is activated.
- Yellow: ILI or LDW system malfunction.

### 10) Steering Assist status indicator

Displays the status of the Steering Assist by the colour of the indicator

- Grey: Steering Assist standby.
- Green: Steering Assist active.

## TURNING THE PROPILOT CONVENTIONAL (FIXED SPEED) CRUISE CONTROL MODE ON

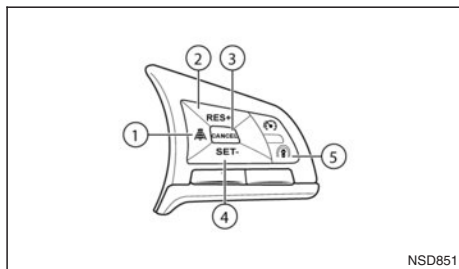
### NOTE

**ProPILOT provides no approach warnings, automatic braking, or steering assist in the conventional (fixed speed) cruise control mode.**

To select the conventional (fixed speed) cruise control mode, push and hold the ProPILOT switch for longer than approximately 1.5 seconds. For addi-

tional information, refer to "ProPILOT Conventional (fixed speed) Cruise Control Mode" later in this section.

## OPERATING THE PROPILOT SYSTEM



1. Push the ProPILOT switch (1). This turns on the ProPILOT system and displays the status of the ProPILOT system on the Vehicle Information Display.
2. Accelerate or decelerate your vehicle to the desired speed.
3. Push the <SET-> switch. The ProPILOT system begins to automatically maintain the set speed. The ProPILOT activation indicator and ProPILOT status indicators illuminate (blue), ICC status indicator and set speed illuminate green.
4. When a vehicle ahead is travelling at a speed of 30 km/h (20 MPH) or below and the < SET-> switch is pushed, the set speed of your vehicle is 30 km/h (20 MPH).

### NOTE

**Turning the ProPILOT system on will turn on the Intelligent Lane Intervention (ILI) and Intelligent Blind Spot Intervention systems at the same time. For additional information, refer to "ProPILOT Intelligent Lane Intervention system" later in this section and "Blind Spot Warning (BSW) system/ Intelligent Blind Spot Intervention system (where fitted)" earlier in this section.**

When the <SET-> switch is pushed under the following conditions, the ProPILOT system cannot be set and the set vehicle speed indicators blinks for approximately 2 seconds:

- When travelling below 30 km/h (20 MPH) and the vehicle ahead is not detected
- When the shift lever is not in the D (Drive) position or Manual mode
- When the parking brake is applied
- When the brakes are operated by the driver
- When the ESP system is off. For additional information, refer to "Electronic Stability Programme (ESP) system (where fitted)" later in this section.
- When the ESP system (including the traction control system) is operating
- When a wheel is slipping
- When any door is open
- When the driver's seat belt is not fastened

## How to change the set vehicle speed

The set vehicle speed can be adjusted.

To change to a faster cruising speed:

- Push and hold the <RES+> switch. The set vehicle speed increases by 10 km/h (5 MPH) increments.
- Push, then quickly release, the <RES+> switch. Each time you do this, the set speed increases by 1 km/h (1 MPH).

To change to a slower cruising speed:

- Push and hold the <SET-> switch. The set vehicle speed decreases by 10 km/h (5 MPH) increments.
- Push, then quickly release, the <SET-> switch. Each time you do this, the set speed decreases by 1 km/h (1 MPH).

## How to momentarily accelerate or decelerate

- Depress the accelerator pedal when acceleration is required. Release the accelerator pedal to resume the previously set vehicle speed.
- Depress the brake pedal when deceleration is required. Control by the ProPILOT system is cancelled. Push the <RES+> switch to resume the previously set vehicle speed.

### WARNING

When the accelerator pedal is depressed and you are approaching the vehicle ahead, the ICC system will neither control the brake nor warn the driver with the chime and display. The driver must


manually control the vehicle speed to maintain a safe distance to the vehicle ahead. Failure to do so could result in severe personal injury or death.




### NOTE

When you accelerate by depressing the accelerator pedal or decelerate by pushing the <SET-> switch and the vehicle travels faster than the speed set by the driver, the set speed vehicle indicator will blink.

## How to change the set distance to the vehicle ahead

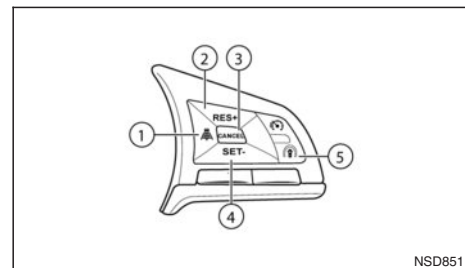
The distance to the vehicle ahead can be selected at any time.

Each time the DISTANCE switch (  ) is pushed, the set distance will change from long to middle, short and back to long again in that sequence.

Distance	Display	Approximate distance at 100 km/h (60 MPH) (m (ft))
Long		60 (200)
Middle		45 (150)
Short		30 (100)

The distance to the vehicle ahead changes automatically according to the vehicle speed. As the vehicle speed increases so does the distance.

The distance setting will remain at the current setting even if the engine is restarted.



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Each time the ICC system is turned on using the blue ProPILOT switch (5), the distance setting reverts to [Long].

## Steering Assist Activation/Deactivation

Use the following methods to enable or disable the Steering Assist.

### Steering Assist switch:

To turn the Steering Assist ON or OFF, push the Steering Assist switch on the instrument panel.

### NOTE

- When the Steering Assist switch is used to turn the system ON or OFF, the system remembers the setting between power cycles. The switch must be pushed again to change the setting to ON or OFF.
- The Steering Assist switch changes the status of the [Steering Assist] selection made in the [Settings] screen in the Vehicle Information Display.



### Setting in the Vehicle Information Display:

1. Press the ◀ or ▶ buttons on the steering wheel until the [Settings] menu is displayed in the Vehicle Information Display and press the <OK> button.
2. Use the ▲ and ▼ buttons on the steering wheel to highlight [Driver Assistance] and press the <OK> button.
3. With [Steering Assist] highlighted press the <OK> button to toggle the Steering Assist system status.

If the tick mark is displayed, the system is ON.

### NOTE

- **When the ProPILOT screen is displayed on the Vehicle Information Display, press the <OK> button on the steering wheel to show the [Driver Assistance] setting menu.**
- **When enabling/disabling the system through the Vehicle Information Display or when pressing the Steering Assist switch, the system retains the current settings even if the system is restarted.**

### Cancelling the ProPILOT system

To cancel the ProPILOT system, use one of the following methods:

- Press the <CANCEL> switch on the steering wheel.
- Tap or depress the brake pedal (except when the vehicle is stationary).
- To turn the ProPILOT system off completely, press the ProPILOT switch on the steering wheel, the ProPILOT indicator will turn OFF.

When the ProPILOT system is switched off while the vehicle is stopped, the electronic parking brake is automatically activated.

### WARNING

**When you leave the vehicle, make sure to push the ProPILOT switch to turn the system OFF, place the shift lever in the P (Park) position, and turn the engine OFF.**

## PROPILOT INTELLIGENT CRUISE CONTROL (ICC) SYSTEM

### WARNING

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

- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is for highway use only and it is not intended for congested areas or city driving. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **There are limitations to the ICC system capability. The ICC system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**

- **The ICC system does not react to stationary or slow moving vehicles.**
- **Always drive carefully and attentively when using the ICC system. Read and understand the Owner's Manual thoroughly before using the ICC system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ICC system except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

## ProPILOT ICC system operation

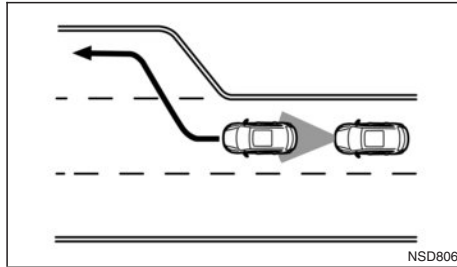
The vehicle-to-vehicle distance control mode is designed to maintain a selected distance and reduce the speed to match the slower vehicle ahead; the system will decelerate the vehicle as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the ICC system can only apply up to approximately 40% of the vehicle's total braking power. This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the travelling lane ahead or if a vehicle travelling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

The ICC system cancels and a warning chime sounds if the speed is below approximately 25 km/h (15 MPH) and no vehicle is detected ahead.

The ICC system operates as follows:

- When there are no vehicles travelling ahead, the ICC system maintains the speed set by the driver. The set speed range is between approximately 30 and 160 km/h (20 and 100 MPH).
- When there is a vehicle travelling ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. Once your vehicle stops, the ICC system keeps the vehicle stopped.

- When your vehicle is at a standstill for more than 3 seconds and the vehicle ahead begins to accelerate, push the <RES+> switch or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.
- When the vehicle travelling ahead moves to a different travelling lane, while the vehicle speed is above 30 km/h (20 MPH), the ICC system accelerates and maintains vehicle speed up to the set speed.
- When the vehicle travelling ahead moves to a different travelling lane, while the vehicle speed is below 30 km/h (20 MPH), the ICC system cancels and a warning chime sounds.



## NOTE

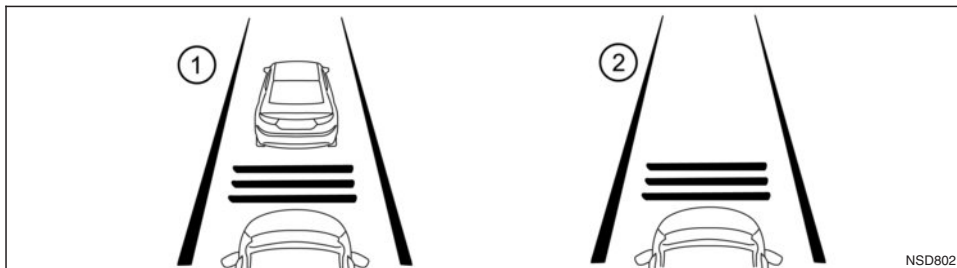
**The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.**

When driving on the motorway at a set speed and approaching a slower travelling vehicle ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the motorway, the ICC system accelerates and maintains the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, the system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead.

Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.



- ① System set display with vehicle ahead
- ② System set display without vehicle ahead

#### No vehicle detected ahead:

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead. The ICC system displays the set speed.


#### Vehicle detected ahead:

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The ICC system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

#### NOTE

- The brake lights of the vehicle come on when braking is performed by the ICC system.

- When the brake is applied by the system, a noise may be heard. This is not a malfunction.

When the ICC system detects a vehicle ahead, the vehicle ahead detection indicator and the speed control status indicator (distance control mode) illuminates (solid green ).

#### Vehicle ahead stops:

When the vehicle ahead decelerates to stop, your vehicle decelerates to a standstill. Once your vehicle stops, the ICC system automatically applies the brakes to keep the vehicle stopped. When your vehicle is at a standstill, the [Press to start] message is displayed on the Vehicle Information Display.

#### NOTE


**When your vehicle stops for less than 3 seconds, your vehicle will automatically follow the vehicle ahead as it accelerates from a stop. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.**

#### Vehicle ahead accelerates:

When your vehicle is stopped and the vehicle ahead begins to accelerate, push the <RES+> switch or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead.

#### Vehicle ahead not detected:

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected, the vehicle ahead detection indicator turns off and speed control status indicator (maintain speed control mode) illuminates (green outline ).

The ICC system gradually accelerates to the set speed, but you can depress the accelerator pedal to quickly accelerate. When a vehicle is no longer detected and your vehicle is travelling under approximately 25 km/h (15 MPH), the ICC system automatically cancels.

When passing another vehicle, the set speed indicator flashes when you override ICC by pressing the accelerator and the vehicle speed exceeds the set speed. When the pedal is released, the vehicle returns to the previously set speed. Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

### Approach warning:

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator and set distance indicator blink.
- You judge it necessary to maintain a safe distance.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are travelling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is travelling faster and the distance between vehicles is increasing.
- When a vehicle cuts in near your vehicle.

The warning chime will not sound when:

- Your vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

### NOTE

**The approach warning chime may sound and the system display may flash when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The**

**radar sensor may detect these objects when the vehicle is driven on winding, narrow, or hilly roads or when the vehicle is entering or exiting a curve. In these cases, you will have to manually control the proper distance ahead of your vehicle.**

Also, the sensor sensitivity can be affected by vehicle operation (steering manoeuvre or driving position in the lane) or traffic or vehicle conditions (for example, if a vehicle is being driven with some damage).

### Acceleration when passing:

#### Passing on the left-hand side:

When the ICC system is engaged above 60 km/h (37 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the left, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the left and will begin to reduce the distance to vehicle directly ahead. Only the left side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed.

If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the left lane to pass, the acceleration will stop after a short time and regain the set following distance.

Acceleration can be stopped at any point by depressing the brake pedal or the <CANCEL> switch on the steering wheel.

#### Passing on the right-hand side:

When the ICC system is engaged above 60 km/h (37

MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the right, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the right and will begin to reduce the distance to vehicle directly ahead. Only the right side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed.

If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the right lane to pass, the acceleration will stop after a short time and regain the set following distance.

Acceleration can be stopped at any point by depressing the brake pedal or the <CANCEL> switch on the steering wheel

### WARNING

**In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:**

- **This function is only activated with the left or right turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include non-passing situations such as left or right side exits.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing always manually steer or brake as needed never solely rely on the system.**

## ICC system limitations

### **WARNING**

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

- The ICC system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the ICC system in city traffic or congested areas.
- The ICC system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves or on icy roads, in heavy rain or in fog.
- As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absent minded driving or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.
- When the ICC system automatically brings the car to a stop, your vehicle can automatically accelerate if the vehicle is stopped for less than approximately 3 seconds and a vehicle ahead is detected moving away. Be prepared to stop your vehicle if necessary.
- Always pay attention to the operation of the vehicle and be ready to manually control the

proper following distance. The ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.

- The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:
  - On roads with heavy, high-speed traffic or sharp curves
  - On slippery road surfaces such as on ice or snow, etc.
  - During bad weather (rain, fog, snow, etc.)
  - When rain, snow or dirt adhere to the bumper around the distance sensor
  - On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)
  - On repeated uphill and downhill roads
  - When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration
  - Interference by other radar sources.
- Do not use the ICC system if you are towing a trailer or another vehicle.
- In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. Always stay alert and avoid using the ICC sys-

### **tem where not recommended in this warning section.**

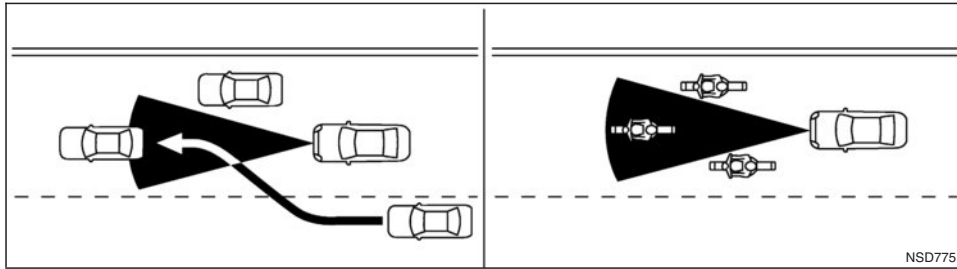
The ICC system will not detect the following objects:

- Stationary or slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles travelling offset in the travel lane

The following are some conditions in which the radar sensor cannot properly detect a vehicle ahead and the system may not operate properly:

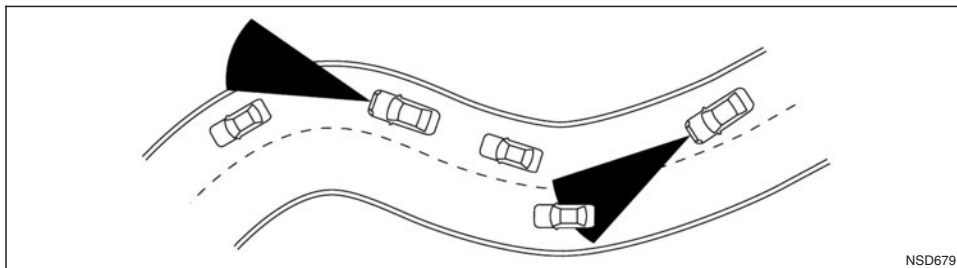
- When the sensor detection is reduced (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles).
- Driving on a steep downhill slope or roads with sharp curves.
- Driving on a bumpy road surface, such as an uneven dirt road.
- If dirt, ice, snow or other material is covering the radar sensor area.
- A complicated-shaped vehicle such as a car carrier trailer or flatbed truck/trailer is near the vehicle ahead.
- Interference by other radar sources.
- When your vehicle is towing a trailer, etc.
- When excessively heavy baggage is loaded in the rear seat or cargo area of your vehicle.

The ICC system is designed to automatically check the radar sensor's operation within the limitations of the system.



The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the ICC system to maintain the selected distance from the vehicle ahead. A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are travelling offset from the centre line of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from the vehicle travelling ahead.



When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle travelling ahead. This may cause the radar system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering manoeuvre or travelling position in the lane, etc.) or vehicle condition.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle travelling ahead.

The ICC system (with ProPILOT) uses a multi-sensing front camera. The following are some conditions in which the camera may not properly detect a vehicle and detection of a vehicle ahead may be delayed:

- Poor visibility (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles).

- The camera area of the windscreen is fogged up or covered with dirt, water drops, ice, snow, etc.
- Strong light (for example, sunlight or high beams from oncoming vehicles) enters the front camera.
- Strong light causes the area around the pedestrian to be cast in a shadow, making it difficult to see.
- A sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or shaded area or lightning flashes).

## Automatic cancellation

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

### Condition A:

Under the following conditions, the ICC system is automatically cancelled. A chime will sound and the system will not be able to be set:

- Any door is open
- The driver's seat belt is not fastened.
- The vehicle ahead is not detected and your vehicle is travelling below the speed of 25 km/h (15 MPH).
- Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.
- When the shift lever is not in the D (Drive) or Manual mode.
- The electronic parking brake is applied.
- The ESP system is turned off.
- The IEB applies harder braking
- ESP (including the traction control system) operates.
- A wheel slips.
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor.
- When the radar signal is temporarily interrupted.

**Action to take:**

When the conditions listed above are no longer present, turn the system off using the ProPILOT switch. Turn the ProPILOT system back on to use the system.

**NOTE**

**When the ICC system is cancelled under the following conditions at a standstill, the electronic parking brake is automatically activated:**

- Any door is opened.
- The driver's seat belt is not fastened.
- Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.
- When the shift lever is not in the D (Drive) or Manual mode.
- The ESP system is turned off.
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor.
- When the radar signal is temporarily interrupted.

**Condition B:**

The Radar sensor is positioned behind the front bumper. When this area is covered with dirt or is obstructed, the ICC system will automatically be cancelled.

The chime will sound and the [Not Available Front Radar Blocked] warning message will appear in the Vehicle Information Display.

**Action to take:**

If the warning message appears, stop the vehicle in a safe place, place the shift lever in the P (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area and restart the engine. Note that the system will require some time to detect that the area is now clean and to reset itself. If the [Not Available Front Radar Blocked] warning message continues to be displayed, have the system checked by a NISSAN dealer or qualified workshop.

**Condition C:**

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the system may illuminate the system warning light and display the [Not Available Front Radar Blocked] message.

**Action to take:**

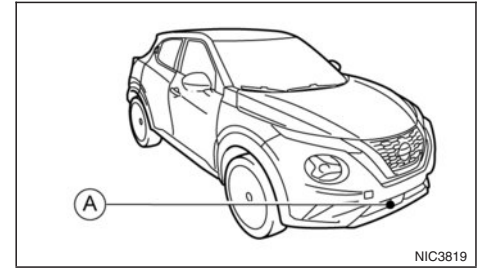
When the above driving conditions no longer exist, turn the system back on.

**ICC system malfunction**

If the ICC system malfunctions, it will be turned off automatically, a chime will sound, and the speed control status warning (yellow) will illuminate.

**Action to take:**

If the warning light comes on, stop the vehicle in a safe place. Turn the engine off, restart the engine and set the ICC system again. If it is not possible to set the ICC system or the indicator stays on, it may be a malfunction. Although the normal driving can be continued, the ICC system should be checked by a NISSAN dealer or qualified workshop.

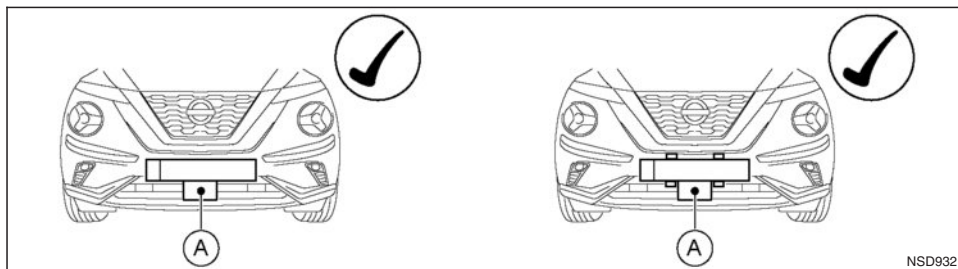


NIC3819

**ICC sensor maintenance**

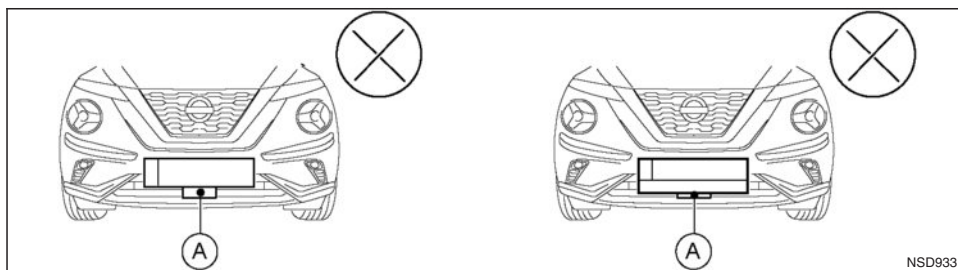
The radar sensor is located on the front of the vehicle (A).





No frame/frameless

NSD932



Frame type

NSD933

**⚠ WARNING**

- NISSAN recommends only to use frameless type number plate holders.
- The ICC system may not function properly if the number plate is placed in a frame as illustrated.

Please contact a NISSAN dealer or qualified workshop for advice.

The sensor for the ICC system (A) is located behind the lower grille of the front bumper.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.) This could cause failure or malfunction.
- Do not alter, remove, or paint the front bumper. Before customizing or restoring the front bumper, please contact a NISSAN dealer or qualified workshop.
- Do not place the number plate in a frame.

Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer or qualified workshop.

For the radio approval numbers and information, see "Radio frequency approval" in the "9. Technical information" section.

The camera sensor is located above the inside mirror.

To keep the proper operation of the systems and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, have it checked by a NISSAN dealer or qualified workshop.

## PROPILOT STEERING ASSIST

### WARNING

Failure to follow the warnings and instructions for proper use of the Steering Assist could result in serious injury or death.

- The Steering Assist is not a replacement for proper driving procedures and is not designed to correct careless, inattentive or absent-minded driving. The Steering Assist will not always steer the vehicle to keep it in the lane. It is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.

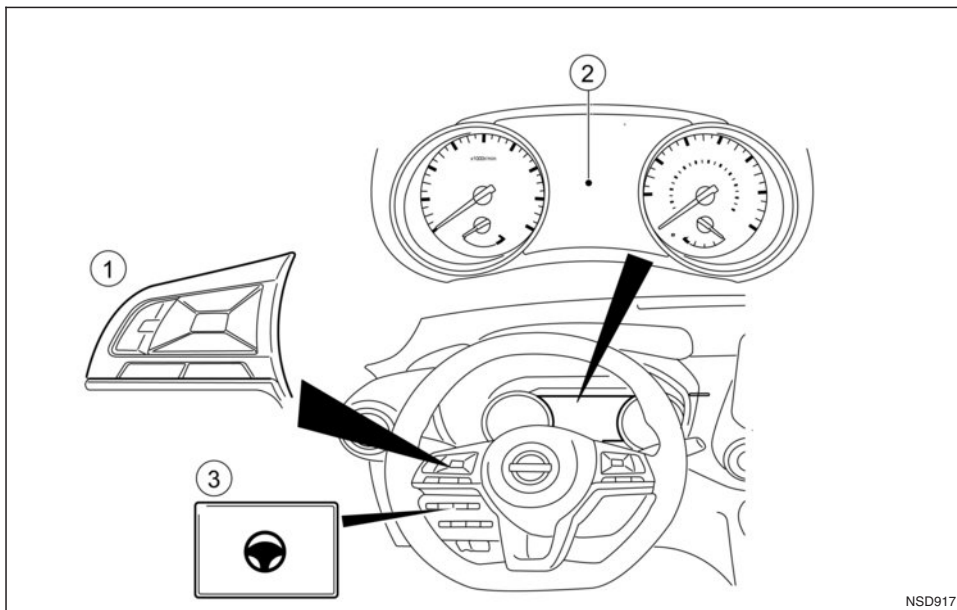
- **As there is a performance limit to the Steering Assist's capability, never rely solely on the system. The Steering Assist does not function in all driving, traffic, weather, and road conditions. Always drive safely, pay attention to the operation of the vehicle, and manually control your vehicle appropriately.**
- **The Steering Assist is intended for use on well-developed motorways or highways with gentle (moderate) curves, where traffic travelling in opposing directions is separated with a barrier. To avoid risk of an accident, do not use this system on local or non-highway roads.**
- **The Steering Assist only steers the vehicle to maintain its position in the centre of a lane. The vehicle will not steer to avoid objects in the road in front of the vehicle or to avoid a vehicle moving into your lane.**
- **It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times. Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.**
- **Always drive carefully and attentively when using the Steering Assist. Read and understand the Owner's Manual thoroughly before using the Steering Assist. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the Steering Assist except in appropriate road and traffic conditions.**

## ProPILOT Steering Assist operation

The Steering Assist controls the steering system to help keep your vehicle near the centre of the lane when driving. The Steering Assist is combined with the Intelligent Cruise Control (ICC) system. For additional information, refer to "Intelligent Cruise Control (ICC) (vehicles with ProPILOT)" earlier in this section.

The Steering Assist can be activated when the following conditions are met:

- The ICC system is activated and the speed set.
- Lane markers on both sides are clearly detected.
- A vehicle ahead is detected (when the vehicle is driven at speeds under 60 km/h (37 MPH)).
- The driver grips the steering wheel.
- The vehicle is driven at the centre of the lane.
- The turn signals are not operated.
- The windscreen wiper is not operated in the high (HI) speed operation (the steering assist function is disabled after the wiper operates for approximately 10 seconds).



## ProPILOT Steering Assist switches

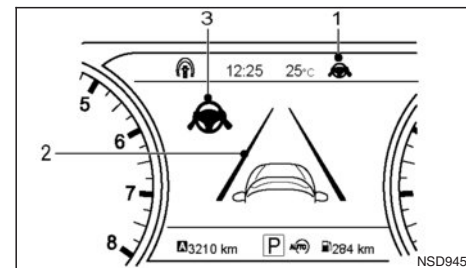
- ① Steering wheel mounted controls (left)
- ② Vehicle Information Display
- ③ Steering Assist switch

To turn the Steering Assist ON or OFF, push the Steering Assist switch on the instrument panel.

When the Steering Assist switch is used to turn the system ON or OFF, the system remembers the setting when the engine is restarted. The switch must be pushed again to change the setting to ON or OFF.

The Steering Assist switch changes the status of the [Steering Assist] selection made in the [Settings] screen in the Vehicle Information Display.

## ProPILOT Steering Assist display and indicators



### 1. Steering Assist status indicator/warning

Displays the status of the Steering Assist by the colour of the indicator/warning

- Grey: Steering Assist standby
- Green: Steering Assist active
- Yellow: Steering Assist malfunction

### 2. Lane marker indicator

Indicates whether the system detects the lane marker

- Grey: Lane markers not detected
- Green: Lane markers detected
- Yellow: Lane departure is detected

### 3. Steering Assist status indicator

Displays the status of the Steering Assist by the colour of the indicator/warning

- Grey: Steering Assist standby
- Green: Steering Assist active

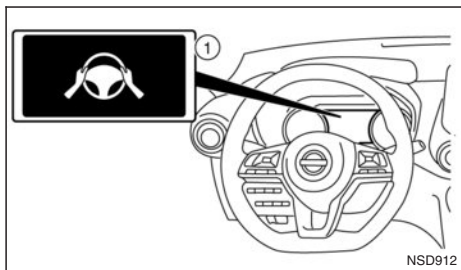
When the Steering Assist is in operation, the Steering Assist status indicator ① and the lane marker indicator ② on the Vehicle Information Display turn green.

When the Steering Assist enters standby mode, the Steering Assist status indicator ① and the lane marker indicator ② on the Vehicle Information Display turn grey. If Steering Assist has been deactivated automatically as the conditions for activation are no longer met, a double chime will sound.

### ProPILOT Intelligent Lane Intervention (ILI)

When a curve or strong cross wind exceeds the capabilities of the Steering Assist and your vehicle approaches either the left or the right side of the travelling lane, a warning chime sounds and the ILI indicator light (yellow) on the instrument panel flashes to alert the driver. Then, the ILI system automatically applies the brakes for a short period of time to help assist the driver to avoid departing the lane and to return the vehicle to the centre of the travelling lane. This action is in addition to any Steering Assist actions. For additional information, refer to "ProPILOT Intelligent Lane Intervention system" later in this section.

### Hands on detection



When the Steering Assist is activated, it monitors the driver's steering wheel operation.

If the steering wheel is not operated or the driver takes his/her hands off the steering wheel for a period of time, the warning ① appears in the Vehicle Information Display.

If the driver does not operate the steering wheel after the warning has been displayed, an audible alert sounds and the warning flashes in the Vehicle Information Display. If the driver still does not operate the steering wheel, the system applies Emergency Assist, followed by a momentary brake application to request the driver to take control of the vehicle again.

If the driver still does not respond, the ProPILOT turns on the hazard flasher and slows the vehicle to a complete stop.

The driver can cancel the deceleration at any time by steering, braking, accelerating, or operating the ProPILOT switch.

### WARNING

**Steering Assist is not a system for hands-free driving. Always keep your hands on the steering wheel and drive your vehicle safely. Failure to do so could cause a collision resulting in serious personal injury or death.**

### NOTE

**If the driver softly touches (instead of firmly grips) the steering wheel, the Steering Assist may not detect the steering wheel operation and the warning may be displayed. When the driver holds and operates the steering wheel again, the warning turns off and the Steering Assist resumes automatically.**

### Steering Assist Activation/Deactivation

Use the following methods to enable or disable the Steering Assist.

#### **ProPILOT switch on steering wheel:**

Press the ProPILOT switch. This will turn ICC and Steering Assist on in standby mode and Steering Assist icons will appear in grey. Note that Steering Assist may already be switched on, depending on the settings in the [Settings] menu. These settings are retained if the engine is restarted.

Then press <Set> on the right-hand steering wheel switch to set cruise control speed. When the system detects clear lane markings the Steering Assist icons will turn grey and the Steering Assist system will become active.

### Steering Assist switch:

To turn the Steering Assist ON or OFF, push the Steering Assist switch on the instrument panel.

#### NOTE

- When the Steering Assist switch is used to turn the system ON or OFF, the system remembers the setting when the engine is restarted. The switch must be pushed again to change the setting to ON or OFF.
- The Steering Assist switch changes the status of the [Steering Assist] selection made in the [Settings] screen in the Vehicle Information Display.

#### Setting in the Vehicle Information Display:

1. Press the ◀ or ▶ buttons on the left hand side of the steering wheel until the [Settings] menu is displayed in the Vehicle Information Display and press the <OK> button.
2. Use the ▲ and ▼ buttons on the steering wheel to highlight [Driver Assistance] and press the <OK> button.
3. With [Steering Assist] highlighted press the <OK> button to toggle the Steering Assist system status.

A tick mark indicated that Steering Assist is selected.

#### NOTE

- When the Steering Assist screen is displayed on the Vehicle Information Display, press the <OK> button on the steering wheel to show the [Driver Assistance] setting menu.

- When enabling/disabling the system through the Vehicle Information Display or when pressing the Steering Assist switch, the system retains the current settings even if the engine is restarted.

#### Steering Assist limitations

##### WARNING

- In the following situations, the camera may not detect lane markers correctly or may detect lane markers incorrectly and the Steering Assist may not operate properly:
  - When driving on roads where there are multiple parallel lane markers, lane markers that are faded or not painted clearly, nonstandard lane markers, or lane markers covered with water, dirt, snow, etc.
  - When driving on roads with discontinued lane markers
  - When driving on roads with a widening or narrowing lane width
  - When driving on roads where there are multiple lanes or unclear lane markers due to road construction
  - When driving on roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams, or lines remaining after road repairs (the Steering Assist could detect these items as lane markers)
  - When driving on roads where the travelling lane merges or separates
  - Where the lanes are too narrow or too wide

- Do not use the Steering Assist under the following conditions because the system may not properly detect lane markers. Doing so could cause a loss of vehicle control and result in an accident.

- During bad weather (rain, fog, snow, dust, etc.)
- When rain, snow, sand, etc., is thrown up by the wheels of other vehicles
- When dirt, oil, ice, snow, water, or another object adheres to the camera unit
- When the glass in front of the camera is foggy
- When strong light (for example, sunlight or high beams from oncoming vehicles) shines on the camera
- When the headlights are not bright due to dirt on the lens or the headlights are off in tunnels or darkness
- When a sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or is under a bridge)
- When driving on roads where the travelling lane merges or separates or where there are temporary lane markers because of road construction
- When there is a lane closure due to road repairs
- When driving on a bumpy road surface, such as an uneven dirt road
- When driving on sharp curves or winding roads

- When driving on repeated uphill and downhill roads
- Do not use the Steering Assist under the following conditions because the system will not operate properly:
  - When driving with a tyre that is not within normal tyre conditions (for example, tyre wear, abnormal tyre pressure, installation of a spare tyre, tyre chains, nonstandard wheels)
  - When the vehicle is equipped with non-original brake or suspension parts
  - When an object such as a sticker or cargo obstructs the camera
  - When excessively heavy baggage is loaded in the rear seat or luggage area of your vehicle
  - When the vehicle load capacity is exceeded
  - When towing a trailer or other vehicle
- Excessive noise will interfere with the warning chime sound, and the beep may not be heard.
- For the ProPILOT system to operate properly, the windscreen in front of the camera must be clean. Replace worn wiper blades. The correct size wiper blades must be used to help make sure the windscreen is kept clean. Only use Genuine NISSAN wiper blades, or equivalent wiper blades, that are specifically designed for use on your vehicle model and model year. It is recommended that you visit a NISSAN dealer or qualified workshop for the correct parts for your vehicle.

## Steering Assist temporary standby

### Automatic standby due to driving operation:

When the driver activates the turn signal, the Steering Assist is temporarily placed in a standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

### Automatic standby:

In the following cases, a double chime sounds, and the Steering Assist is placed in a temporary standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

- When the current travelling lane is too narrow to operate.
- When a corner is too tight and the vehicle cannot stay in the travelling lane.
- When lane markers on both sides are no longer detected.
- When a vehicle ahead is no longer detected under approximately 60 km/h (37 MPH).

## Steering Assist cancel

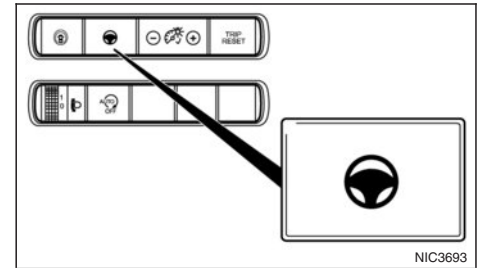
Under the following conditions, the Steering Assist cancels a warning message is displayed, a double-chime sounds, and the Steering Assist indicators turn off:

- When unusual lane markers appear in the travelling lane or when the lane marker cannot be correctly detected for some time due to certain conditions (for example, a snow rut, the reflection of light on a rainy day, the presence of several unclear lane markers).

- When the windscreen wiper operates in the high (HI) speed operation (the Steering Assist is disabled when the wiper operates for more than approximately 10 seconds).

### Action to take:

When the conditions listed above are no longer present, turn the Steering Assist system on again using the Steering Assist button on the instrument panel.



## Steering Assist malfunction

When the system malfunctions, it turns off automatically. The Steering Assist status warning illuminates (yellow). A chime may sound depending on the situation.

### Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off, restart the engine, resume driving, ensure that the Steering Assist is switched on using the Steering Assist button on the instrument panel or the [Settings] menu and set the Intelligent Cruise Control system again.

If the warning (yellow) continues to illuminate, the Steering Assist may be malfunctioning. Although the vehicle is still drivable under normal conditions, have the system checked by a NISSAN dealer or qualified workshop.

### Steering Assist maintenance

The camera sensor is located above the inside mirror.

To keep the proper operation of the system and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer or qualified workshop.

## PROPILOT CONVENTIONAL (FIXED SPEED) CRUISE CONTROL MODE

### NOTE

**ProPILOT provides no approach warnings, automatic braking, or steering assist in the conventional (fixed speed) cruise control mode.**

This mode allows driving at a speed between 30 and 160 km/h (20 and 100 MPH) without keeping your foot on the accelerator pedal.

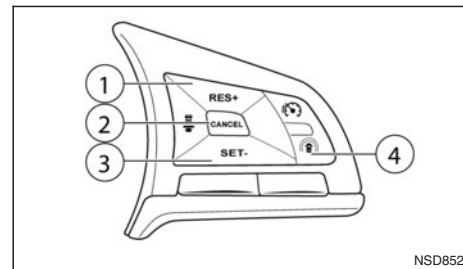
### WARNING

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - When it is not possible to keep the vehicle at a set speed
  - In heavy traffic or in traffic that varies in speed
  - On winding or hilly roads
  - On slippery roads (rain, snow, ice, etc.)

- In very windy areas

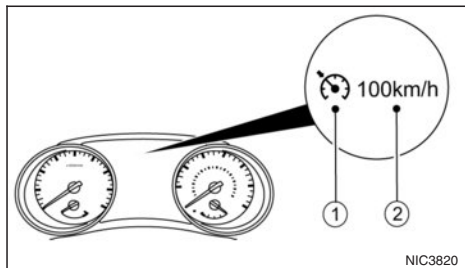
- **Doing so could cause a loss of vehicle control and result in an accident.**

### ProPILOT Conventional (fixed speed) cruise control switches



- 1) <RES+> switch:  
Resumes set speed or increases speed incrementally.
- 2) <CANCEL> switch:  
Deactivates the system without erasing the set speed.
- 3) <SET-> switch:  
Sets desired cruise speed or reduces speed incrementally.
- 4) ProPILOT switch:  
Master switch to activate the system.

## ProPILOT Conventional (fixed speed) cruise control mode display and indicators



The display is located in the vehicle information display.

### 1. Cruise indicator:

This indicator indicates the condition of the Conventional (fixed speed) cruise control mode of the ICC system depending on a colour.

- Cruise control ON indicator (grey): Indicates that the ICC switch is on.
- Cruise control SET indicator (green): Indicates that the cruising speed is set.
- Cruise control warning (yellow): Indicates that there is a malfunction in the Conventional (fixed speed) cruise control mode of the ICC system.

### 2. Set vehicle speed indicator:

This indicator indicates the set vehicle speed.

- Grey: cruise control standby
- Green: cruise control active

## Operating ProPILOT conventional (fixed speed) cruise control mode

To turn on the conventional (fixed speed) cruise control mode, push and hold the blue ProPILOT switch for longer than about 1.5 seconds.

When pushing the blue ProPILOT switch on, the conventional (fixed speed) cruise control mode display and indicators are displayed in the Vehicle Information Display. After you hold ProPILOT switch on for longer than about 1.5 seconds, the ProPILOT system display turns off. The cruise indicator appears. You can now set your desired cruising speed. Pushing the ProPILOT switch again will turn the system completely off. When the ignition switch is placed in the OFF position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the ProPILOT switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

### CAUTION

**To avoid accidentally engaging cruise control, make sure to turn the ProPILOT switch off when not using the cruise control system.**

To set cruising speed, accelerate your vehicle to the desired speed, push the <SET> switch and release it. (The colour of the cruise indicator changes to

green and set vehicle speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset speed, use any of the following methods:

- Push the <CANCEL> switch. The vehicle set speed indicator will turn grey.
- Tap the brake pedal. The vehicle set speed indicator will turn grey.
- You can also Turn ProPILOT off completely. Turn the blue ProPILOT switch off. Both the cruise indicator and vehicle set speed indicator will turn off.

To reset at a faster cruising speed, use one of the following three methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the <SET> switch.
- Push and hold the <RES+> switch. When the vehicle attains the desired speed, release the switch.
- Push, then quickly release the <RES+> switch. Each time you do this, the set speed will increase by about 1 km/h (1 MPH).



To reset at a slower cruising speed, use one of the following three methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the <SET-> switch and release it.
- Push and hold the <SET-> switch. Release the switch when the vehicle slows down to the desired speed.
- Push, then quickly release the <SET-> switch. Each time you do this, the set speed will decrease by about 1 km/h (1 MPH).

To resume the preset speed after ICC cancel, push and release the <RES+> switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH).

## PROPILOT SPEED LIMITER (where fitted)

The speed limiter allows you to set the desired vehicle speed limit. While the speed limiter is activated, you can perform normal braking and acceleration, but the vehicle will not exceed the set speed.

When the vehicle reaches the set speed limit or if the set speed limit is lower than the actual vehicle speed, the accelerator pedal will not work until the vehicle speed drops below the set speed limit.

When the actual vehicle speed exceeds the set speed, an audible warning will be heard a short time after the set speed is exceeded and driver intervention is not detected.

When the speed limiter is on the cruise control system cannot be operated.

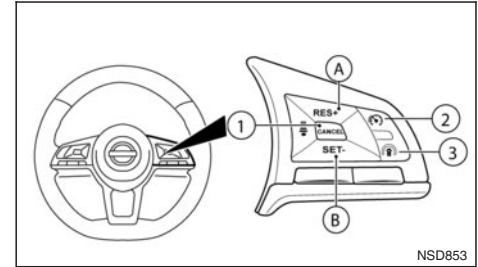
### WARNING

- **The speed limiter will not automatically brake the vehicle to the set speed limit.**
- **Always observe posted speed limits. Do not set the speed above them.**
- **Always confirm the setting status of the speed limiter in the Vehicle Information Display.**
- **When the speed limiter is set, avoid hard acceleration to reach the set limit to ensure that the system can limit the speed of the vehicle correctly.**
- **When additional floor mats are used, be sure that they are correctly secured and that they cannot interfere with the accelerator pedal. Mats not adapted to the vehicle may prevent proper operation of the speed limiter.**

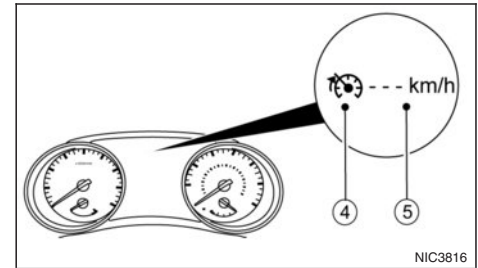
The speed limiter operation switches are located on the steering wheel (right hand side).

The speed limiter operating condition is shown on the top of Vehicle Information Display. For details, see "Vehicle information display" in the "2. Instruments and controls" section.

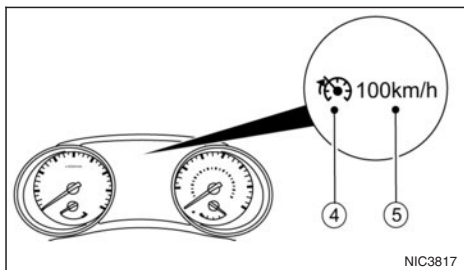
## ProPILOT Speed limiter operations



- ① <CANCEL> switch
- Ⓐ <RES +> (Resume) switch
- Ⓑ <SET -> (Set) switch
- ② Speed limiter main "ON/OFF" switch
- ③ Cruise control main "ON/OFF" switch. (For details, see "ProPILOT Intelligent Cruise Control (ICC) system" earlier in this section)



Before setting speed



After setting speed

NIC3817

- ④ Speed limiter symbol
- ⑤ Set speed value

#### Turning the speed limiter on:

The speed limiter can be switched on after engine start or when driving.

Push the speed limiter main "ON/OFF" switch.

A popup will appear in the vehicle information display showing that the Speed Limiter has been turned on and whether or not ILI has been turned on. The Limit symbol will appear and the set speed will display [---].

#### NOTE

**For models with ProPILOT: Turning the Speed limiter system on will turn on the Intelligent Lane Intervention (ILI) and Intelligent Blind Spot Intervention systems at the same time. For additional information, see "ProPILOT Intelligent Lane Intervention system" later in this section and "Blind Spot Warning (BSW) system/Intelligent Blind Spot Intervention system (where fitted)" earlier in this section.**

#### Setting speed limit:

Push the <SET> switch.

The speed limit will be set at the current speed.

When driving less than 30 km/h (20 MPH), the speed limiter will be set to the minimum possible set speed of 30 km/h (20 MPH).

When the speed limit is set, the speed limiter symbol ④ and the set speed value ⑤ will turn green.

#### Changing a speed limit:

Use either of the following operations to change an active speed limit:

- Push and release the <RES> (Resume) switch or <SET> switch. Each time you do this, the set speed will increase or decrease by 1 km/h (1 MPH).
- Push and hold the <RES> (Resume) switch or <SET> switch. The set speed will increase or decrease to the next multiple of 5 km/h (5 MPH) and then in steps of 5 km/h (5 MPH).

The new set speed limit value ⑤ will be displayed in the Vehicle Information Display.

When the actual vehicle speed exceeds the set speed, an audible warning will be heard a short time after the set speed is exceeded and driver intervention is not detected.

#### Cancelling a speed limit:

To cancel a set speed limit, push the <CANCEL> switch. The speed limiter symbol ④ and the set speed value ⑤ in the Vehicle Information Display will turn grey.

It is also possible to override the speed limiter by fully depressing the accelerator pedal beyond the resistance point.

#### WARNING

- The vehicle may accelerate when the speed limiter cancels.
- When additional floor mats are used, be sure that they are correctly secured and that they cannot interfere with the accelerator pedal. Mats not adapted to the vehicle may prevent proper operation of the speed limiter.

Fully depress the accelerator pedal beyond the resistance point. The speed limiter will be suspended to allow driving above the set speed. The set speed value ⑤ will flash and an audible warning will sound. The speed limiter will automatically resume when the vehicle speed drops below the set speed limit.

#### Resuming a previous set speed:

If a set speed limit has been cancelled, the set speed will be stored in the speed limiter memory.

This speed limit can be reactivated by pressing the <RES> (Resume) switch ④.

If the current vehicle speed is higher than the previous set speed, the accelerator pedal will not work and the set speed value ⑤ will flash until the vehicle speed drops below the set speed limit.

When the actual vehicle speed exceeds the set speed, an audible warning will be heard a short time after the set speed is exceeded and driver intervention is not detected.

### Turning the speed limiter off:

The speed limiter system will be turned off when one of the following operations is performed:

- Push the speed limiter main "ON/OFF" switch. The speed limiter symbol ④ and the set speed value ⑤ in the Vehicle Information Display will be turned off.
- Push the blue ProPILOT "ON/OFF" switch. The speed limiter information in the vehicle information will be replaced with the ProPILOT display. For details see "ProPILOT (where fitted)" earlier in this section
- When the vehicle is stopped and the ignition is placed in the **OFF** position.

### Turning off the speed limiter will erase the set speed limit memory.

### Speed limiter malfunction:

If the speed limiter malfunctions, the speed limiter symbol ④ in the Vehicle Information Display will flash.

Turn the speed limiter off by pushing the speed limiter main "ON/OFF" switch ③ and have the system checked by a NISSAN dealer or qualified workshop.

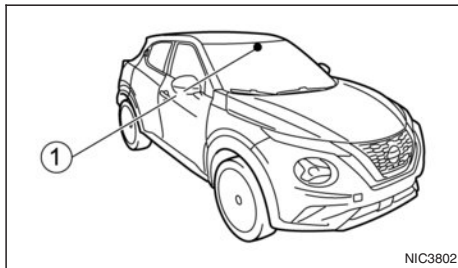
## PROPILOT LANE DEPARTURE WARNING (LDW) SYSTEM

The LDW system will operate when the vehicle is driven at the following speeds and above, and only when the lane markings are clearly visible on the road:

- For Europe:  
approximately 60 km/h (37 MPH)
- Except for Europe:  
approximately 70 km/h (45 MPH)

The LDW system monitors the lane markers on the travelling lane using the camera unit ① located above the inside mirror.

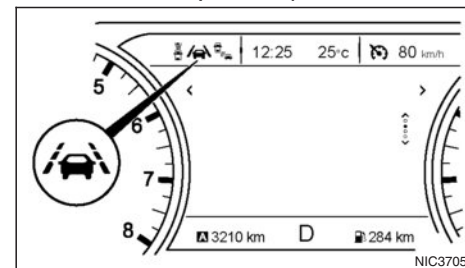
The LDW system warns the driver with a LDW indicator on the Vehicle Information Display, steering wheel vibration and a chime that the vehicle is beginning to leave the driving lane.



### WARNING

The LDW system is only a warning device to help inform the driver of a potential unintended lane departure. It will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times. Failure to operate the vehicle in accordance with these limitations could result in serious injury or death.

### ProPILOT LDW system operation



LDW indicator

The LDW system provides a lane departure warning function when the vehicle is driven at speeds of approximately 60 km/h (37 MPH) and above, and the lane markings are clear.

When the vehicle approaches either the left or the right side of the travelling lane, the steering wheel will vibrate, a chime will sound and the LDW indicator on the vehicle information display will blink to alert the driver.

The warning function will stop when the vehicle returns inside of the lane markers.

#### **Turning the LDW system on or off:**

You can turn the LDW system on and off using the [Settings] menu in the vehicle information display.

For details, see "Vehicle information display" in the "2. Instruments and controls" section.

1. In the [Settings] menu, select the [Driver Assistance] key.
2. Select the [Lane] submenu by pressing <OK>.
3. A tick mark next to [Lane Departure Warning] indicates that the system is turned on.

#### **NOTE**

If you turn the LDW system off using the [Settings] menu, the system will remain turned off the next time you start the vehicle's engine.

#### **WARNING**

Listed below are the system limitations for the Lane Departure Warning system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The system will not operate at speeds below approximately 60 km/h (37 MPH) (for Europe) or 70 km/h (45 MPH) (except Europe), or if it cannot detect lane markers
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.
- Do not use the LDW system under the following conditions as it may not function properly:
  - During bad weather (rain, fog, snow, etc.).

- When driving on slippery roads, such as on ice or snow.
  - When driving on winding or uneven roads.
  - When there is a lane closure due to road repairs.
  - When driving in a makeshift or temporary lane.
  - When driving on roads where the lane width is too narrow.
  - When driving without normal tyre conditions (for example, tyre wear, low tyre pressure, installation of spare tyre, tyre chains, non-standard wheels).
  - When the vehicle is equipped with non-original brake parts or suspension parts.
  - When you are towing a trailer or other vehicle.
- The system may not function properly under the following conditions:
- On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.
  - On roads where discontinued lane markers are still detectable.
  - On roads where there are sharp curves.
  - On roads where there are sharply contrasting objects, such as shadows, snow, water,

wheel ruts, seams or lines remaining after road repairs. (The LDW system could detect these items as lane markers.)

- On roads where the travelling lane merges or separates.
- When the vehicle's travelling direction does not align with the lane marker.
- When travelling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
- When rain, snow, dirt or object adheres to the windshield in front of the lane camera unit.
- When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
- When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
- When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)

## LDW temporary disabled status

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then started, the LDW system may be deactivated automatically, the LDW indicator will flash and the [Not available High Cabin Temperature] message will appear in the Vehicle Information Display.

When the interior temperature is reduced, the LDW system will resume operating automatically and the LDW indicator will stop flashing.

The LDW system is not designed to warn under the following conditions:

- When you operate the lane change signal and change travelling lanes in the direction of the signal. (The LDW system will become operational again approximately two seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 60 km/h (37 MPH) (for Europe) or approximately 70 km/h (45 MPH) (Except for Europe).

After the above conditions have finished and the necessary operating conditions are satisfied, the LDW system will resume.

## LDW malfunction

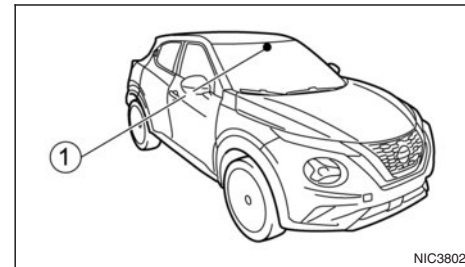
When the LDW system malfunctions, it will be cancelled automatically and the [System Fault] message will appear in the Vehicle Information Display. If the [System Fault] message appears in the Vehicle Information Display, pull off the road in a safe location, turn off and restart the engine. If the [System Fault] message continues to appear in the Vehicle Information Display, have the LDW system checked by a NISSAN dealer or qualified workshop.

## Multi-sensing camera unit maintenance

The lane camera unit ① for the LDW system is located above the interior rear view mirror. To maintain the proper operation of the LDW system and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, contact a NISSAN dealer or qualified workshop.

## PROPILOT INTELLIGENT LANE INTERVENTION SYSTEM



### WARNING

**Failure to follow the warnings and instructions for proper use of the Intelligent Lane Intervention (ILI) system could result in serious injury or death.**

- **The ILI system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.**
- **The ILI system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers in certain road, weather, or driving conditions.**

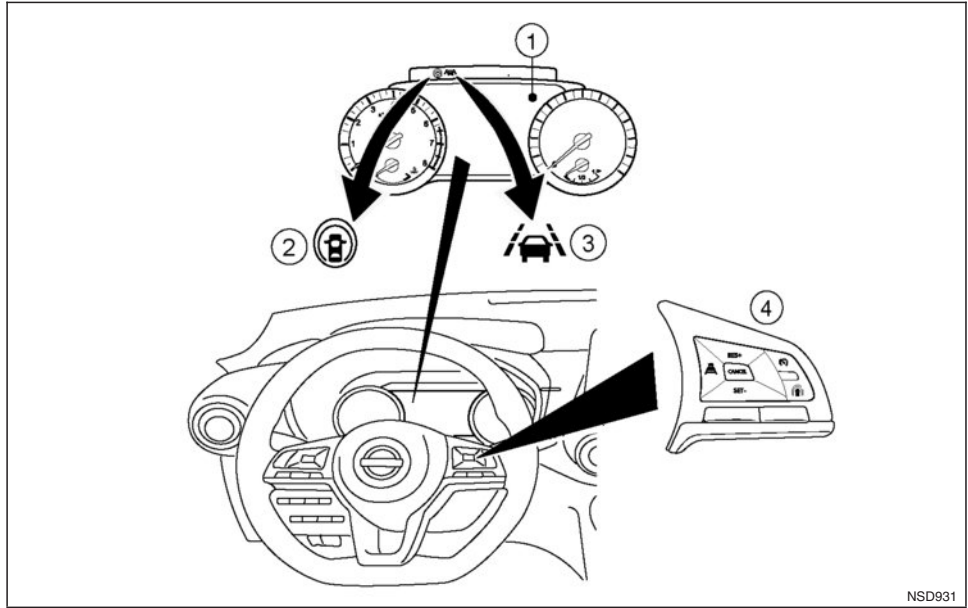
The ILI system must be turned on with the ProPILOT switch every time the ignition switch is placed in the **ON** position.

The ILI system will operate when the vehicle is driven at the following speeds and above, and only when the lane markings are clearly visible on the road:

- For Europe:  
approximately 60 km/h (37 MPH)
- Except for Europe:  
approximately 70 km/h (45 MPH)

The ILI system warns the driver when the vehicle has left the centre of the travelling lane with a ILI indicator on the Vehicle Information Display, a chime and steering wheel vibration. The system helps assist the driver to avoid departing the lane and to return the vehicle to the centre of the travelling lane by applying the brakes to the left or right wheels individually (for a short period of time).

The ILI system monitors the lane markers on the travelling lane using the camera unit ① located above the inside mirror



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- ① Vehicle Information Display
- ② ProPILOT status indicator light
- ③ ILI indicator (on the Vehicle Information Display). Appears only when system activates (blinks yellow)
- ④ Steering-wheel-mounted controls

### ProPILOT Intelligent Lane Intervention System Operation

The ILI system operates above approximately:

- For Europe:  
approximately 60 km/h (37 MPH)
- Except for Europe:  
approximately 70 km/h (45 MPH)

When the vehicle approaches either the left or the right side of the travelling lane, the steering wheel will vibrate, a chime will sound and the ILI indicator (yellow) on the Vehicle Information Display will blink to alert the driver. Then, the ILI system will automatically apply the brakes for a short period of time to help assist the driver to return the vehicle to the centre of the travelling lane.

## ProPILOT Intelligent Lane Intervention Activation/Deactivation

### Using the steering wheel controls:

To turn on the ILI system, push the ProPILOT switch or Speed limiter MAIN ON/OFF switch on the steering wheel after starting the engine. A confirmation message will appear on the Vehicle Information Display.

Turn the ILI system off using the [Settings] menu in the Vehicle Information Display, or push the ProPILOT switch to turn off the whole ProPILOT system including ILI.

### Using the Vehicle Information Display:

- 1) In the [Settings] menu of the Vehicle Information Display, select the [Driver Assistance] submenu.
- 2) Navigate to and enter the [Lane] submenu.
- 3) The ILI system is turned on when the checkmark is shown next to [Lane Departure Prevention].

### NOTE

**Activating the ProPILOT or Speed Limiter system (where fitted) will activate the ILI system at the same time, provided ILI has been turned on in the [Settings] menu.**

## Limitations



### WARNING

Listed below are the system limitations for the Intelligent Lane Intervention system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The ILI system may activate if you change lanes without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.
- Because the ILI may not activate under the road, weather and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave the travelling lane and you will need to apply corrective steering.
- When the ILI system is operating, avoid excessive or sudden steering manoeuvres, otherwise you could lose control of the vehicle.
- The ILI system will not operate if it cannot detect lane markers, or at speeds below approximately:
  - For Europe:  
approximately 60 km/h (37 MPH)
  - Except for Europe:  
approximately 70 km/h (45 MPH)
- Do not use the ILI system under the following conditions as it may not function properly:

- During bad weather (rain, fog, snow, etc.).
- When driving on slippery roads, such as on ice or snow.
- When driving on winding or uneven roads.
- When there is a lane closure due to road repairs.
- When driving in a makeshift or temporary lane.
- When driving on roads where the lane width is too narrow.
- When driving without normal tyre conditions (for example, tyre wear, low tyre pressure, installation of spare tyre, tyre chains, non-standard wheels).
- When the vehicle is equipped with non-original brake parts or suspension parts.
- On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.
- On roads where discontinued lane markers are still detectable.
- On roads where there are sharp curves.
- On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The ILI system could detect these items as lane markers.)

- On roads where the travelling lane merges or separates.
- When the vehicle's travelling direction does not align with the lane marker.
- When travelling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
- When rain, snow, dirt or object adheres to the windscreen in front of the lane camera unit.
- When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
- When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
- When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.
- When the vehicle load capacity is exceeded.
- When towing a trailer or another vehicle.

## ILI temporary Unavailable

### Condition A:

The warning and assist functions of the ILI system are not designed to work under the following conditions:

- When you operate the lane change signal and change the travelling lanes in the direction of the signal. (The ILI system will be deactivated for approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately:
  - For Europe: approximately 60 km/h (37 MPH)
  - Except for Europe: approximately 70 km/h (45 MPH)

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

### Condition B:

The assist function of the ILI system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during the ILI system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs.
- When the hazard warning flashers are operated.

- When driving on a curve at high speed.

After the above conditions have finished and the necessary operating conditions are satisfied, the ILI system application of the brakes will resume.

### Condition C:

If the following messages appear in the Vehicle Information Display, a chime will sound and the ILI system will be turned off automatically.

- [Not Available Poor Road Conditions]:  
When the ESP system (except Traction Control System (TCS) function) or ABS operates.
- [Currently not available]:  
When the ESP system is turned **OFF**.

When the above conditions no longer exist, turn on the ILI system. Push the ProPILOT switch again to turn the ILI system back on.

### Temporary disabled status at high temperature:

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then the ILI system is turned on, the ILI system may be deactivated automatically and the following message will appear on the Vehicle Information Display: [Not available High cabin temperature] When the interior temperature is reduced, the system will resume operating automatically.

## NOTE

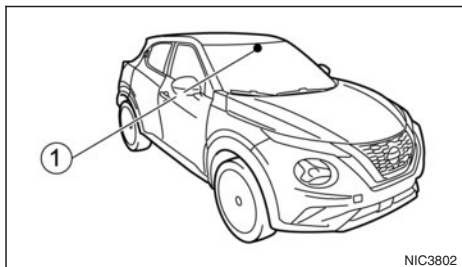
While the ILI system is operating, you may hear a sound of brake operation. This is normal and indicates that the ILI system is operating properly.



## System malfunction

When the ILI system malfunctions, it will cancel automatically and the [System Fault] message will appear in the Vehicle Information Display. If the [System Fault] message appears in the Vehicle Information Display pull off the road in a safe location, turn off and restart the engine. If the [System Fault] message continues to appear in the Vehicle Information Display, have the ILI system checked by a NISSAN dealer or qualified workshop.

## Multi-sensing camera unit maintenance



The lane camera unit ① for the ILI system is located above the interior rear view mirror. To maintain the proper operation of the ILI system and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.

- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability of detecting lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, contact a NISSAN dealer or qualified workshop.

## INTELLIGENT EMERGENCY BRAKING (IEB) SYSTEM (where fitted)

## INTELLIGENT EMERGENCY BRAKING (IEB) SYSTEM (where fitted) (for EUROPE)

### WARNING

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

- **The IEB system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.**
- **The IEB system does not function in all driving, traffic, weather and road conditions.**

The IEB system can assist the driver when there is a risk of a forward collision with:

- a vehicle ahead in the travelling lane
- a pedestrian ahead in the travelling lane
- a cyclist ahead in the travelling lane

# NISSAN



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