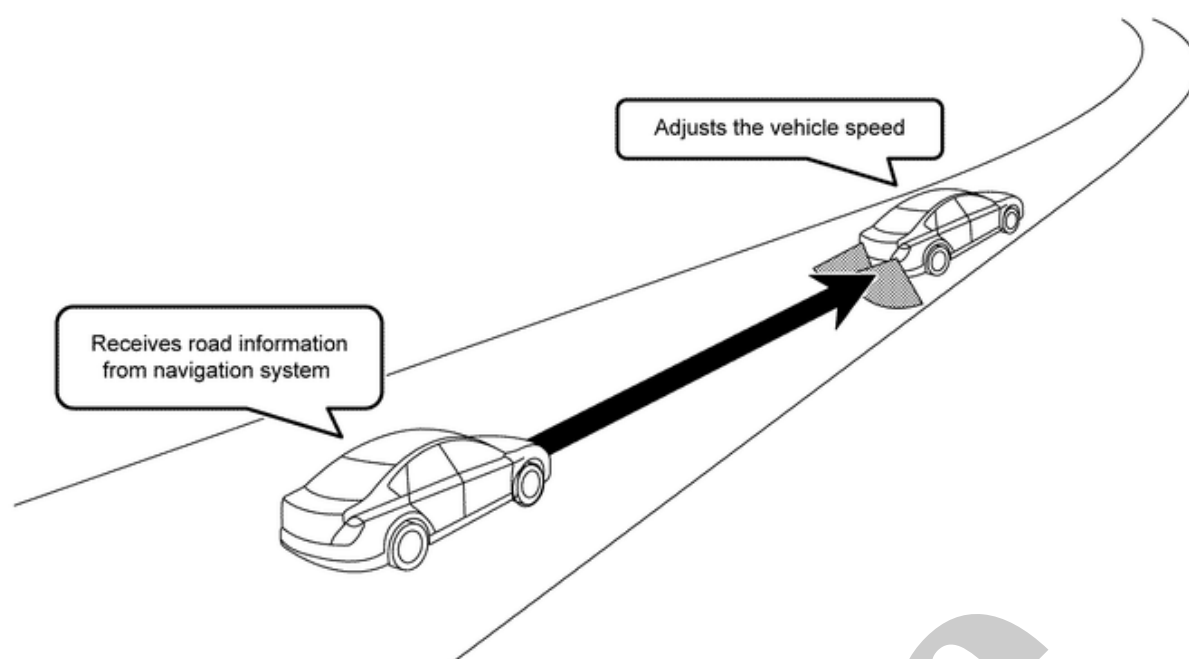


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2017 NISSAN Skyline Sedan OEM Service and Repair Workshop Manual

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SIEMD-7106215-03-000312497

OPERATION DESCRIPTION

- When ProPILOT Assist is OFF, pressing the ProPILOT Assist steering wheel switch for less than 1.5 seconds displays the ProPILOT Assist status, and the set wait condition is engaged.
- ADAS control unit 2 performs the control as per the following:

Constant speed	The ADAS control unit compares the set vehicle speed with the current vehicle speed, transmits the command to VCM via CAN communication to reach the set vehicle speed, and controls the electric throttle control actuator.
Following	The ADAS control unit 2 sends commands to the VCM and the ABS actuator and electric unit (controlunit) and controls the vehicle speed for keeping the proper distance between vehicles according to the vehicle speed changes of the vehicle ahead.
Following → Stop	The ADAS control unit 2 sends commands to the ABS actuator and electric unit (controlunit) and stops the vehicle. After the vehicle stops, it is held at a stop.
Starting from stop → Following	The ADAS control unit 2 judges that the RES+ switch is pressed by the ProPILOT Assist steering switch signal from the VCM or the accelerator pedal is depressed by the accelerator pedal position signal from VCM, transmits the command to VCM to resume following driving, and controls the electric throttle control actuator.

- When the ADAS control unit 2 judges that a vehicle moves into own traveling lane near own vehicle by the distance sensor signal from the distance sensor, it transmits the meter display signal to the combination meter to turn ON the vehicle ahead detection indicator.
- When the ADAS control unit 2 judges that own vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or another vehicle cuts in by the distance sensor signal from the distance sensor, it performs the following operations:
 - Transmits the meter display signal to the combination meter to turn ON ProPILOT Assist system display.
 - Transmits the buzzer output signal to the combination meter to sound the buzzer.
- When the ADAS control unit 2 judges that the turn signal is activated to the left while the own vehicle is following a slower vehicle (below set speed) at 70 km/h (44 MPH) or more, it transmits the command to the VCM to accelerate the vehicle.
- When the ADAS control unit 2 judges that new speed limit sign is indicated while the ProPILOT Assist is activating, it applies to the vehicle set speed. (With Full TFT meter)
- When the ADAS control unit 2 receives the road information (curves, junctions and exits) from the navigation system, it transmits the command to the VCM to adjust the vehicle speed. (With Full TFT meter)

OPERATION CONDITION

- ProPILOT Assist system: ON
- Vehicle speed: Between approximately 30 and 144 km/h (20 and 90 MPH)

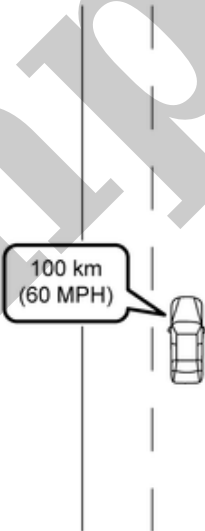
CANCEL CONDITION

- Push the CANCEL switch
- Tap the brake pedal (except at a standstill)
- Push the ProPILOT Assist switch to turn the system OFF (The ProPILOT Assist status indicator turn OFF)
- Any door is open
- The driver's seat belt is not fastened
- The vehicle ahead is not detected and own vehicle is traveling below the speed of 25 km/h (15 MPH)
- Own vehicle has been stopped by the ProPILOT Assist system for approximately 3 minutes or longer
- The shift lever is not in the D (Drive) position or manual shift mode
- The electronic parking brake is applied
- The VDC system is turned OFF
- The FEB applies harder braking
- VDC (including the traction control system) operates
- The SNOW mode or OFF-ROAD mode is selected (AWD models)
- A wheel slips
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the distance sensor
- When the radar signal is temporarily interrupted

FUNCTION DESCRIPTION

The conventional (fixed speed) cruise control mode allows driving at a speed between 30 and 144 km/h (20 and 90 MPH) without keeping own foot on the accelerator pedal.

**NOTE:**
Unlike the vehicle-to-vehicle distance control mode of the distance from the vehicle ahead is not performed. The ProPILOT Assist system warning and brake control are not performed.

Driving condition	Constant speed (When there are no vehicles traveling ahead)
Example	Maintains the speed set by the driver
	Set speed: 100 km (60 MPH)
	

SIEMD-7106231-02-000312498

OPERATION DESCRIPTION

- When the vehicle-to-vehicle distance control mode is OFF, pressing and holding the ProPILOT Assist switch for 1.5 seconds or more illuminates the speed control indicator and sets the control to the set wait condition.

**NOTE:**
When switching to vehicle-to-vehicle distance control mode, first turn the system OFF, and then press the ProPILOT Assist switch for less than 1.5 seconds to set the vehicle-to-vehicle distance control mode to the set wait condition.

- The system compares the current vehicle speed and the set vehicle speed, sends commands via CAN communication to the VCM, and controls the torque to bring the current speed closer to the set speed.
- When the system is in the set wait condition and the vehicle speed is between approximately 30 and 144 km/h (20 and 90 MPH), the vehicle speed at the time when the SET- switch is pressed is saved as the set vehicle speed, and control is started.
- ADAS control unit 2 performs the control as per the following:

Constant speed	Comparing the set vehicle speed with the current vehicle speed, transmits the command to VCM via CAN communication to reach the set vehicle speed, and controls electronic throttle control actuator.
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OPERATION CONDITION

- Conventional (fixed speed) cruise control mode: ON



NOTE:

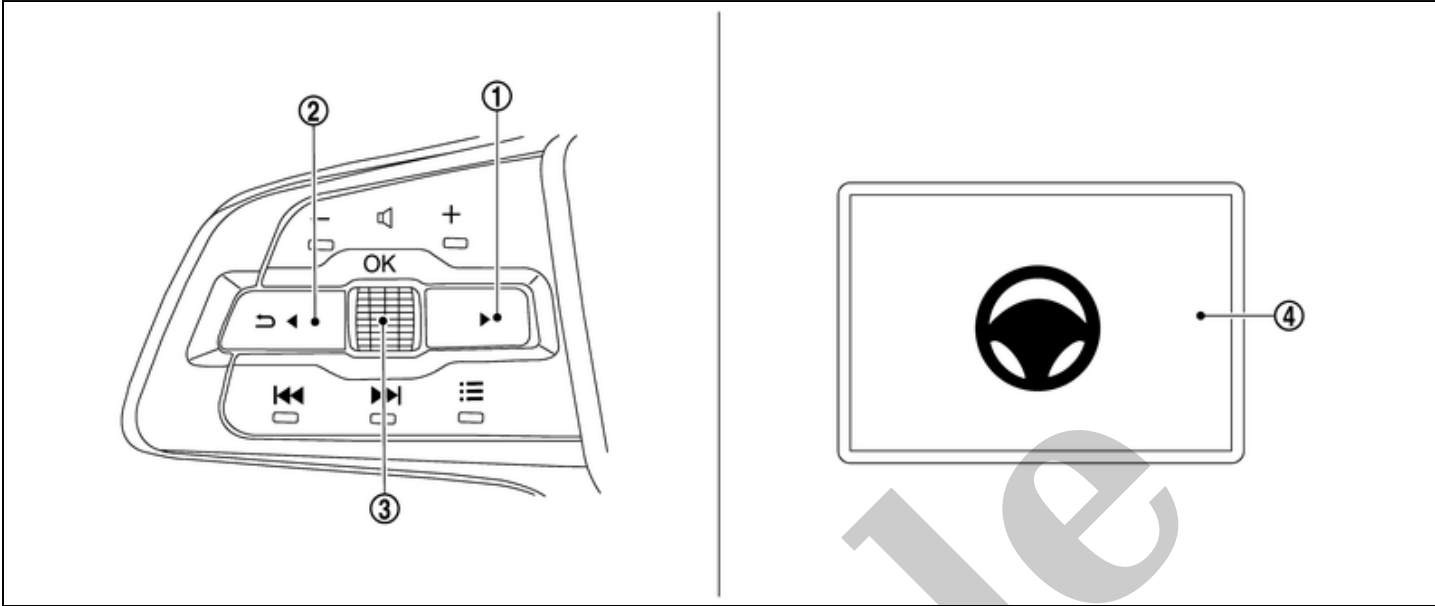
When the vehicle-to-vehicle distance control mode is OFF, pressing and holding the ProPILOT Assist switch for 1.5 seconds or more illuminates the speed control indicator and sets the control to the set wait condition.

- Vehicle speed: Between approximately 30 and 144 km/h (20 and 90 MPH)

CANCEL CONDITION

- Push the CANCEL switch
- Tap the brake pedal
- Push the ProPILOT Assist switch to turn the system OFF (The ProPILOT Assist status indicator turn OFF)
- Any door is open
- The driver's seat belt is not fastened
- Own vehicle is traveling below the speed of 25 km/h (15 MPH)
- The shift lever is not in the D (Drive) position or manual shift mode
- The electronic parking brake is applied
- The VDC system is turned OFF
- The FEB applies harder braking
- VDC (including the traction control system) operates
- The SNOW mode or OFF-ROAD mode is selected (AWD models)
- A wheel slips

SWITCH NAME AND FUNCTION

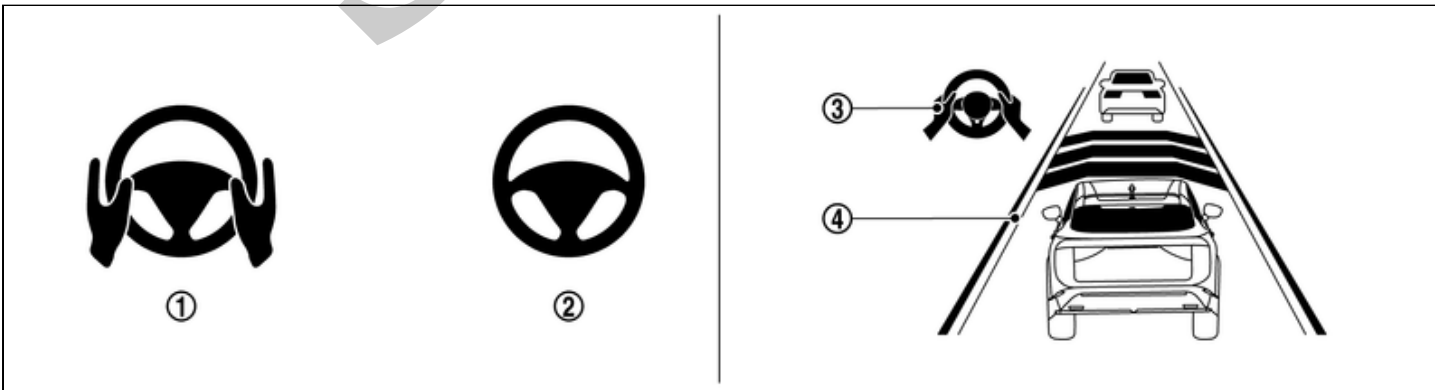


SIEMD-7106216-07-000349848

No.	Switch name	Description
①	RIGHT SW	1. Using the steering switch, select the [Settings] menu in the information display 2. Select the [Driver Assistance] menu 3. Select the [Steering Assist] item to turn the system ON/OFF
②	LEFT/BACK SW	
③	OK SW/Jog dial	
④	Steering assist switch	The steering wheel assistance function can be turned ON/OFF

SYSTEM DISPLAY AND WARNING

SYSTEM DISPLAY



SIEMD-7106216-04-000349849

No.	Function	Description
①	Hands OFF warning lamp	Illuminates when the steering wheel is not operated or the driver takes own hands Off the steering wheel for a period of time
②	Steering assist status indicator/warning	The steering assist status is indicated by different colors and shapes
③	Steering assist status indicator	The steering assist status is indicated by different colors and shapes

No.	Function	Description
④	Lane marker indicator	Notifies the driver of the lane detection status

SYSTEM CONTROL CONDITION DISPLAY

When ProPILOT MAIN switch is OFF, pressing the ProPILOT MAIN switch for less than 1.5 seconds illuminates the displays the set vehicle speed, displays the set following distance, illuminates the steering assist indicator/warning, illuminates the steering indicator, and engages set wait condition.

Condition	Display on information display
Steering Assist standby	Steering assist status indicator: Gray  SIEMD-7106216-02-000383216
Steering Assist active	Steering assist status indicator: Green  SIEMD-7106216-03-000383217

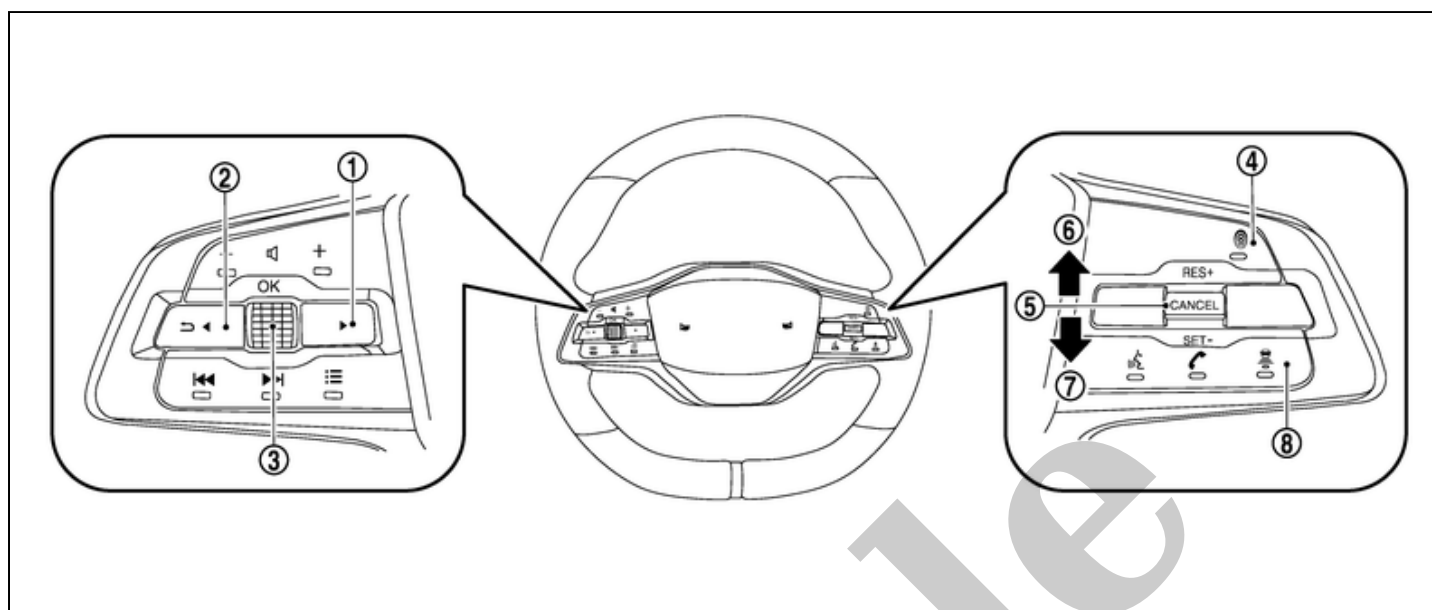
WARNING LAMP AND AUTOMATIC CANCELLATION DISPLAY

Condition	Description	Display on information display	Warning lamp	Buzzer
When the driver releases the steering wheel	Steering assist continues  NOTE: When the driver holds and operates the steering wheel again, the warnings turn OFF	 SIEMD-7106216-06-000184568	ON	OFF
After the warning has been displayed, when the driver does not operate the steering	An audible alert sounds and the warning flashes in the information display  NOTE: When the driver holds and operates the steering wheel	 SIEMD-7106216-08-000184569	Blink	ON

Condition	Description	Display on information display	Warning lamp	Buzzer
	again, the warnings turn OFF			

Sample

SWITCH NAME AND FUNCTION



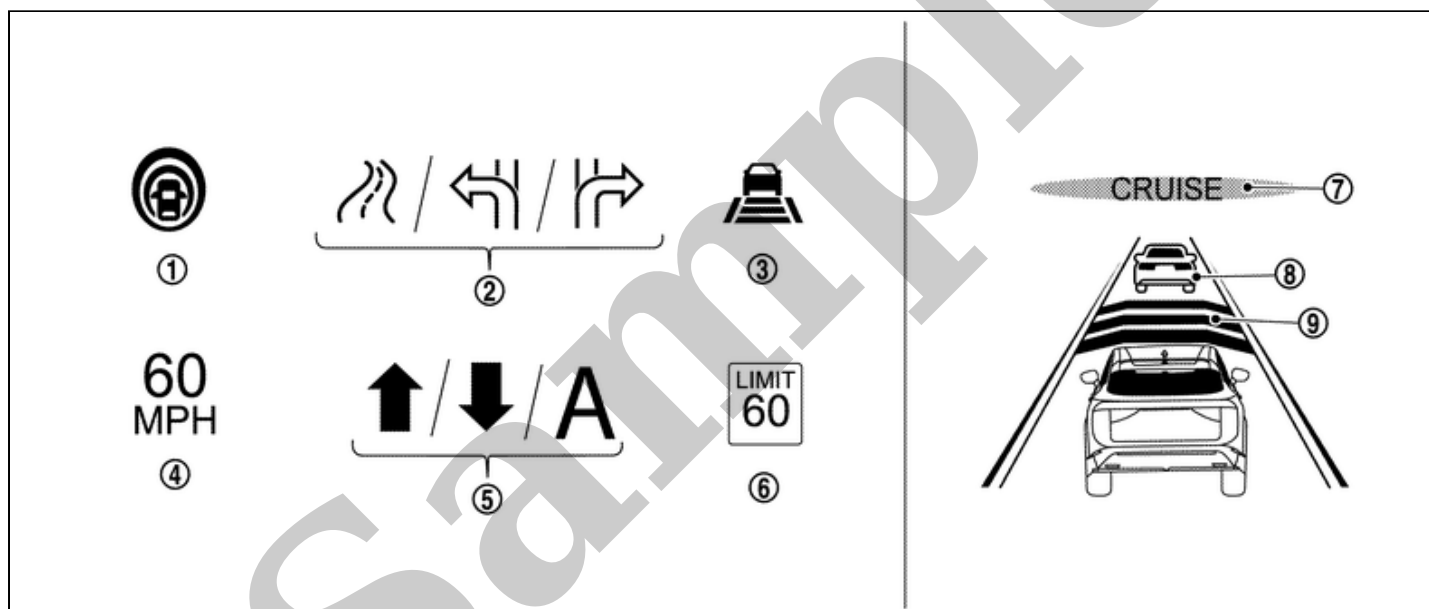
SIEMD-7106221-24-000425422

No.	Switch name	Description
①	RIGHT switch	- The setting of Speed Adjust by Route - Using the steering switch, select the [Settings] menu in the information display - Select the [Driver Assistance] menu - Select [Route speed adjust], and press the OK button to turn the system ON or OFF. - The setting of Speed Limit Assist - Using the steering switch, select the [Settings] menu in the information display - Select the [Driver Assistance] menu - Select [Spd. limit assist], and push the scroll dial to select [Auto] or [Manual] to enable (not activate) the system. To deactivate the system, select [Off].
②	LEFT/BACK switch	- Using the steering switch, select the [Settings] menu in the information display - Select the [Driver Assistance] menu - Select [Spd. limit assist], and push the scroll dial to select [Auto] or [Manual] to enable (not activate) the system. To deactivate the system, select [Off].
③	OK switch/Jog dial	- Using the steering switch, select the [Settings] menu in the information display - Select the [Driver Assistance] menu - Select [Speed Offset] and push the scroll dial to select tolerance value  NOTE: It is possible to set whether the speed limit should be accepted exactly, or with a tolerance of -10 km/h (-5 MPH) to +10 km/h (+5 MPH).
④	ProPILOT Assist MAIN switch	Master switch to activate the system (Press for less than 1.5 seconds)
⑤	CANCEL switch	Pressing the switch cancels ProPILOT Assist control
⑥	RES+ switch	Resumes set speed

No.	Switch name	Description
		Increases speed incrementally
⑦	SET- switch	- Sets desired cruise speed - Reduces speed incrementally  NOTE: The minimum set speed is 30 km/h (20 MPH)
⑧	DISTANCE switch	Changes the following distance from: Long, Middle, Short

SYSTEM DISPLAY AND WARNING

SYSTEM DISPLAY



SIEMD-7106221-01-000430608

No.	Function	Description
①	ProPILOT Assist status indicator	Indicates the status of ProPILOT Assist system
②	Road information indicator	Indicates when the system adjusts the speed depending on turns or exits
③	Speed control status indicator/warning	The vehicle speed control status is indicated by different colors and shapes
④	Set vehicle speed indicator	- Indicates the set vehicle speed - Indicates 30 km/h (20 MPH) when setting less than 30 km/h (20 MPH)
⑤	Speed Limit Assist indicator	Indicates the Speed Limit Assist activation mode or system operation
⑥	Detected speed limit sign indicator	Indicates the currently detected speed limit sign
⑦	ProPILOT Assist activation	Indicates once the ProPILOT Assist system is activated
⑧	Vehicle ahead detection indicator	Indicates whether it detects a vehicle ahead
⑨	Set distance indicator	Indicates the selected distance between vehicles set with the DISTANCE switch

SYSTEM CONTROL CONDITION DISPLAY