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2003 NISSAN Primera Sedan OEM Service and Repair Workshop Manual

[Go to manual page](#)

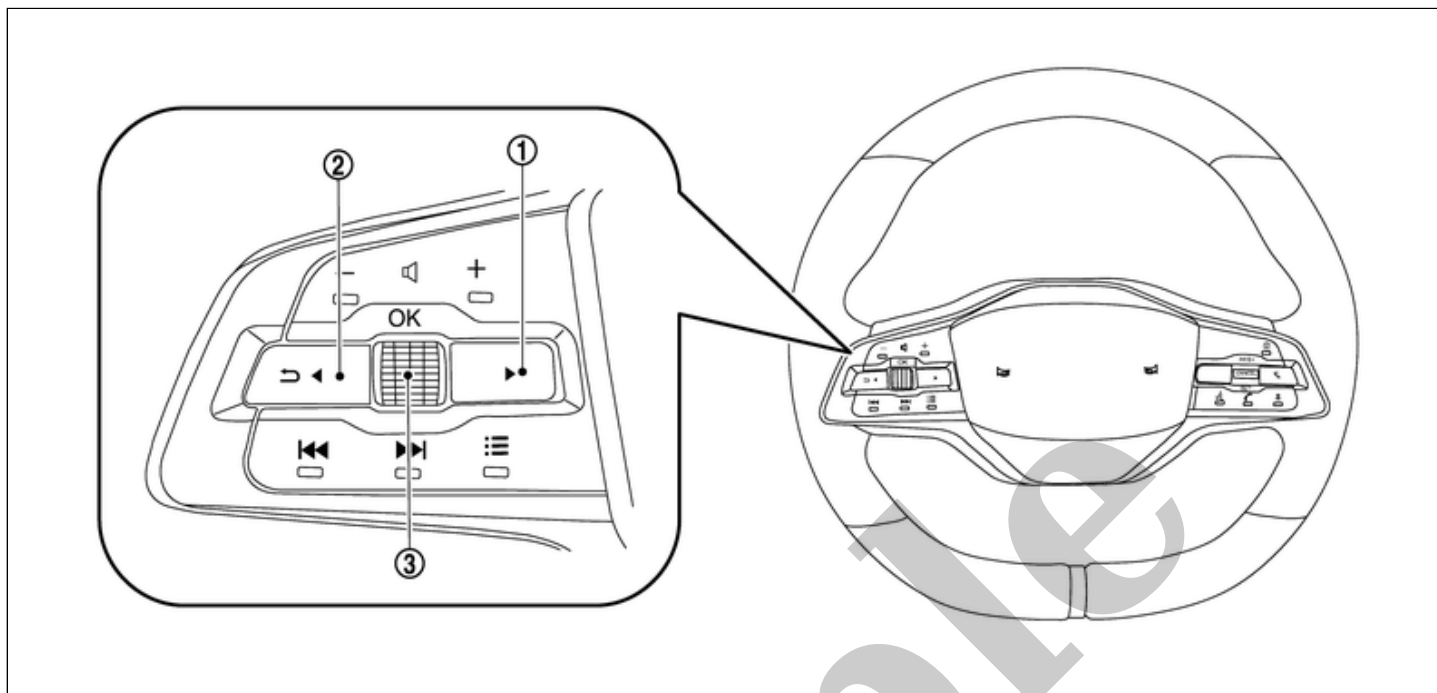
Warning Lamp/Indicator Lamp

SIEMD-7106166

Name	Design	Function
AEB warning lamp		<ul style="list-style-type: none">• For layout, refer to Design.• For function, refer to Operation.

Sample

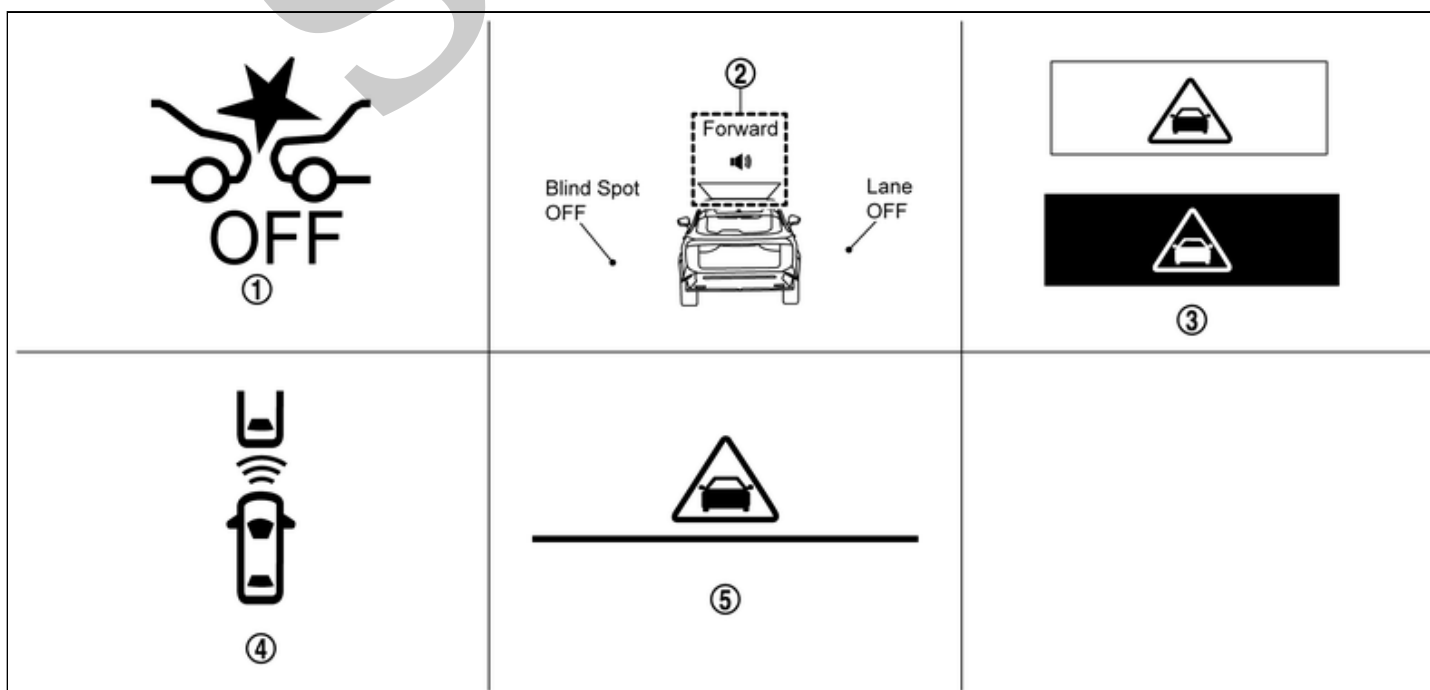
SWITCH NAME AND FUNCTION



SIEMD-7106165-05-000430602

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 [Emergency Brake] menu 4. Select the [Emergency Braking] item to turn the system ON/OFF
②	LEFT/BACK SW	
③	OK SW/Jog dial	

SYSTEM DISPLAY

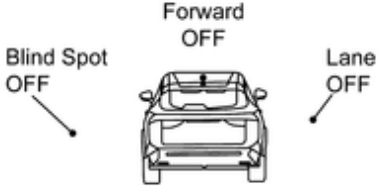



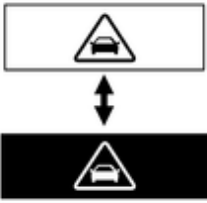
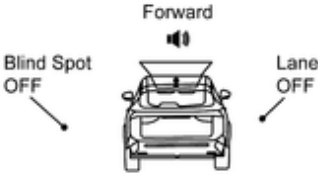


SIEMD-7106165-03-000383223

No.	Switch name	Description
①	AEB warning lamp	<ul style="list-style-type: none"> When any of the following conditions, the AEB warning lamp illuminates: <ul style="list-style-type: none"> An abnormal condition is present in the AEB system The AEB system is turned OFF When any of the following conditions, the AEB warning lamp blinks: <ul style="list-style-type: none"> The distance sensor area of the front of the vehicle is covered with dirt or is obstructed The interior temperature of the vehicle is extremely high The windshield is dirty, frosted, fogged up, or damaged in front of the front camera unit The front camera unit or the front camera unit bracket is not mounted properly
②	AEB system indicator	<ul style="list-style-type: none"> Indicates that AEB system is ON Blinks when approaching vehicle ahead
③	AEB warning (Information display)	Displays immediately before the brake operates
④	Vehicle ahead indicator	<ul style="list-style-type: none"> Indicates whether it detects a vehicle ahead Blinks when approaching vehicle ahead
⑤	AEB warning (Head Up Display)	Displays immediately before the brake operates

DISPLAY AND WARNING

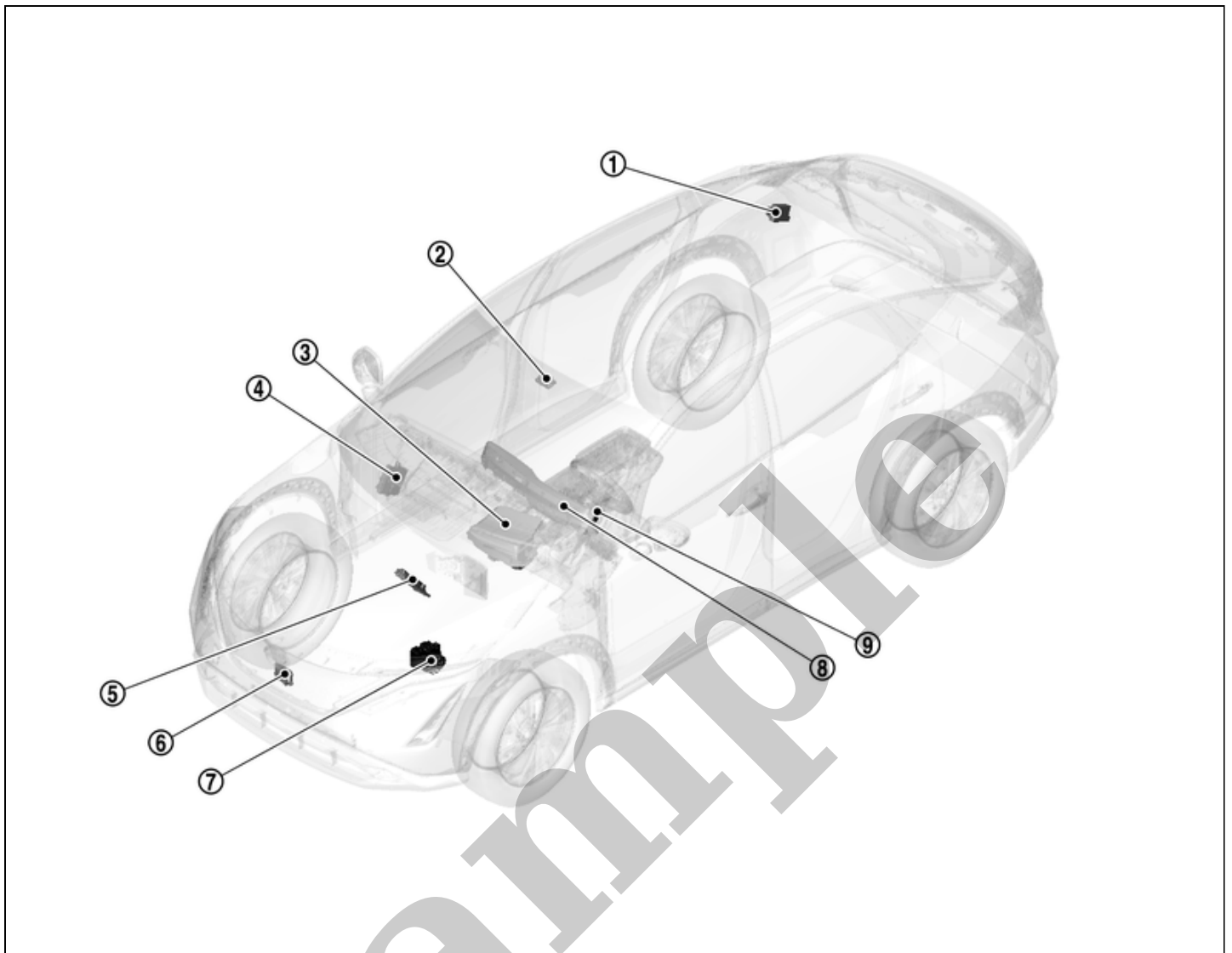
System Display

Condition	Action	Display on information display	Display on Head Up Display (If equipped)	Warning lamp	Buzzer	
AEB OFF	—	<p>Blind Spot OFF Forward OFF Lane OFF</p>  <p>SIEMD-7106165-04-000383201</p>	—	ON	OFF	
AEB ON	There is a possibility of a collision with the vehicle ahead	Operates brake (Partial)	<p>Yellow (Blink)</p>  <p>SIEMD-7106165-02-MOIA0080ZZ</p>	—	OFF	OFF

Condition	Action	Display on information display	Display on Head Up Display (If equipped)	Warning lamp	Buzzer
		<p>Red⇔White</p>  <p>SIEMD-7106165-07-SOIA1477ZZ</p>			
		<p>AEB system indicator: Yellow (Blink)</p> <p>Speaker icon: White</p>  <p>SIEMD-7106165-06-000383202</p>	—	OFF	Beep
An obstacle ahead is avoided due to the system applying braking	Operates brake (Emergency)	<p>Red⇔White</p>  <p>SIEMD-7106165-11-SOIA1477ZZ</p>	<p>Red⇔White</p>  <p>SIEMD-7106165-12-000306862</p>	OFF	Continuous beeps
AEB system malfunction	The AEB system is automatically canceled*	Malfunction	—	ON	Beep
Dirt around the distance sensor	The AEB system is automatically canceled*	<p>Forward Driving Aids temporarily disabled</p> <p>Front Sensor blocked</p> <p>See Owner's Manual</p>	—	Blink	Beep

Condition	Action	Display on information display	Display on Head Up Display (If equipped)	Warning lamp	Buzzer
<ul style="list-style-type: none"> • The interior temperature of the vehicle is extremely high • The windshield is dirty, frosted, fogged up, or damaged in front of the front camera unit • The front camera unit or the front camera unit bracket is not mounted properly 	<p>The AEB system is automatically canceled*</p>	<p>Unavailable</p> <p>Camera Temperature</p> <p>High</p>	<p>—</p>	<p>Blink</p>	<p>Beep</p>

*: The system operates if the power switch is turned OFF⇒ON after the condition improves



SIEMD-7106178-01-000383224

① ADAS control unit 2 Refer to Component Parts Location for detailed installation location.	② Front camera unit Refer to Component Parts Location for detailed installation location.	③ Head Up Display unit Refer to Component Parts Location for detailed installation location.
④ BCM Refer to Component Parts Location for detailed installation location.	⑤ VCM Refer to Component Parts Location for detailed installation location.	⑥ Distance sensor Refer to Component Parts Location for detailed installation location.
⑦ ABS actuator and electric unit (control unit) Refer to Component Parts Location for detailed installation location.	⑧ Combination meter Refer to Component Parts Location for detailed installation location.	⑨ Steering angle sensor Refer to Component Parts Location for detailed installation location.

DISTANCE SENSOR HANDLING

Refer to [Precautions for Intelligent Forward Collision Warning](#).

FRONT CAMERA UNIT HANDLING

Refer to [Precautions for Lane Departure Warning](#).

PRECAUTIONS FOR AEB

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

- The AEB 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 AEB system does not function in all driving, traffic, weather and road conditions.

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

- The AEB system cannot detect all vehicles, pedestrians or under all conditions.
- The AEB system does not detect the following:
 - Pedestrians that are small (for example, children), in a sitting position, operating toys/skateboards, on scooters or in wheelchairs, or not in an upright standing or walking position.
 - Animals of any size.
 - Obstacles (for example, cargo or debris) on the roadway or roadside.
 - Oncoming or crossing vehicles.
 - Vehicles where the tires are difficult to see or the shape of the rear of the vehicle is unclear or obstructed.
 - Parked vehicles.
- The AEB system has some performance limitations.
 - If a stationary vehicle is in the vehicle's path, the system does not function when the vehicle approaches the stationary vehicle at speeds over approximately 80 km/h (50 MPH).
 - Pedestrian detection does not function when the vehicle is driven at speeds over approximately 60 km/h (37 MPH) or below approximately 10 km/h (6 MPH).
- For pedestrians, the AEB system does not issue the first warning.
- The AEB system may not function properly or detect a vehicle, pedestrian ahead in the following conditions:
 - In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke, and road spray from other vehicles).
 - If dirt, ice, snow, fog or other material is covering the radar sensor area or camera area of the windshield.
 - If strong light (for example, sunlight or high beams) enters the front camera unit or a sudden change in brightness occurs (for example, entering a tunnel or driving in lightning).
 - In dark or dimly lit conditions, such as at night or in tunnels, including cases where your vehicle's headlights are off or dim, or the tail lights of the vehicle ahead are off.
 - When the direction of the camera is misaligned.
 - When driving on a steep downhill slope, on roads with sharp curves, and/or bumpy or dirt roads.
 - If there is interference by other radar sources.

- When the vehicle's position or movement is changed quickly or significantly (for example, lane change, turning vehicle, abrupt steering, sudden acceleration or deceleration).
- When the vehicle or pedestrian ahead moves quickly or significantly such that the system cannot detect and react in time (for example, pedestrian moving quickly toward the vehicle at close range, vehicle cutting in, changing lanes, making a turn, steering abruptly, sudden acceleration or deceleration).
- When the vehicle or pedestrian is offset from the vehicle's forward path.
- If the speed difference between the two vehicles is small.
- The pedestrian's profile is partially obscured or unidentifiable; for example, due to transporting luggage, pushing a stroller, wearing bulky or very loose-fitting clothing or accessories, or being in a unique posture (such as raising hands).
- There is poor contrast of a person to the background, such as having clothing color or pattern which is similar to the background.
- For approximately 15 seconds after starting the EV system
- If the vehicle ahead has a unique or unusual shape, extremely low or high clearance heights, or unusual cargo loading or is narrow (for example, a motorcycle).
- When the vehicle or pedestrian is located near a traffic sign, a reflective area (for example, water on road), or is in a shadow.
- When multiple pedestrians are grouped together.
- When the view of the pedestrian is obscured by a vehicle or other object.
- While towing a trailer or other vehicle (AWD models).
- The system performance may be degraded in the following conditions:
 - The vehicle is driven on a slippery road.
 - The vehicle is driven on a slope.
 - Excessively heavy baggage is loaded in the rear seat or the cargo area of your vehicle.
- The system is designed to automatically check the sensor (radar and camera)'s functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow or stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear sensor areas regularly.
- In some road and traffic conditions, the AEB system may unexpectedly apply partial braking. When acceleration is necessary, depress the accelerator pedal to override the system.
- The AEB system may operate when a pattern, object, shadow or lights are detected that are similar to the outline of vehicles or pedestrians, or if they are the same size and position as a vehicle or motorcycle's tail lights.
- The system may keep operating when the vehicle ahead is turning right or left.
- The system may operate when the vehicle is approaching and passing a vehicle ahead.
- Depending on the road shape (curved road, entrance and exit of the curve, winding road, lane regulation, under construction, etc.), the system may operate temporarily for the oncoming vehicle in front of own vehicle.

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

- The AEB system may react to:
 - objects on the roadside (traffic sign, guardrail, pedestrian, motorcycle, vehicle, etc.)
 - pedestrians when driving on the narrow alleys, etc.
 - pedestrians who temporarily protrude into or approaching the driving lane to avoid the obstacles on the road shoulder
 - objects above road (low bridge, traffic sign, etc.)
 - objects on the road surface (railroad track, grate, steel plate, etc.)
 - objects in the parking garage (beam, pillar, etc.)

- pedestrians or motorcycles approaching the traveling lane
- vehicles, pedestrians, motorcycles or objects in adjacent lanes or close to the vehicle
- oncoming pedestrians
- objects on the road (such as trees)
- Braking distances increase on slippery surfaces.
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

Sample