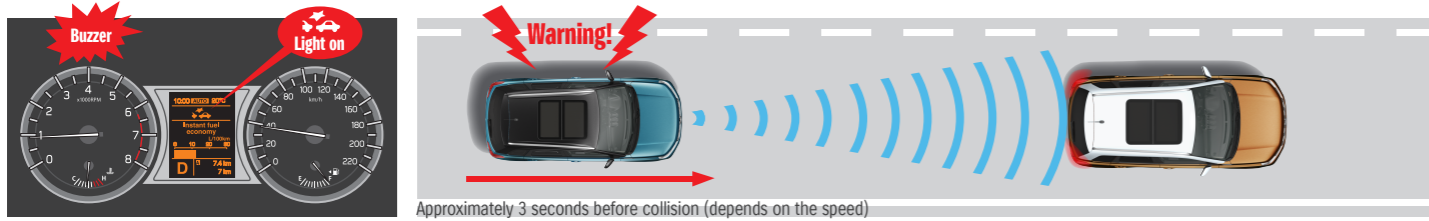


Radar Brake Support (RBS) Models: SX4 S-CROSS Vitara Baleno

Radar Brake Support is a collision-mitigating system that uses the reflection from a millimetre-wave radar sensor fitted on the front of the vehicle to realise the following four advanced safety functions.

1. Warning

The system detects the vehicle in front, and if there is a risk of collision, it warns the driver to use the brakes. The timing of the warning can be switched between the settings of FAR and NEAR.



[Conditions for operation] Against stationary obstacles: Operates at vehicle speeds of approximately 5km/h to 80km/h.
Against moving obstacles: Operates at vehicle speeds of approximately 5km/h or above.

2. Automatic Light Brake

If there is a risk of collision, the system applies light braking to warn the driver to use the brakes.



[Conditions for operation] Operates at vehicle speeds of approximately 5km/h or above.
(Note: This RBS function is not available on the SX4 S-CROSS.)

3. Brake Assist

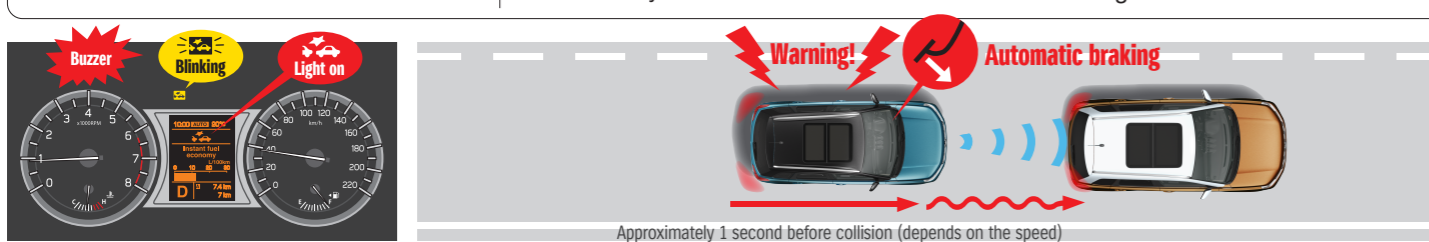
If there is a high probability of a collision and the driver strongly presses the brake pedal, the system increases the braking force, helping to avoid the collision or reduce damage.



[Conditions for operation] Operates at vehicle speeds of approximately 5km/h or above.

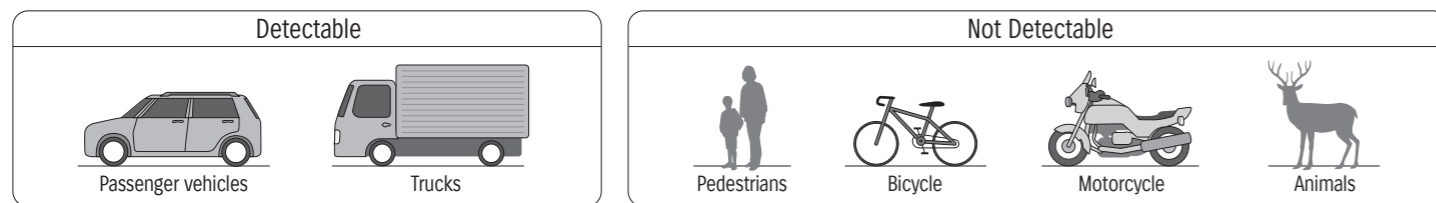
4. Automatic Brake

If the system determines that a collision is unavoidable, it applies the brake automatically in order to avoid the collision or reduce damage.



[Conditions for operation] Against stationary obstacles: Operates at vehicle speeds of approximately 5km/h to 30km/h.
Against moving obstacles: Operates at vehicle speeds of approximately 5km/h or above.

Radar Brake Support is designed to respond largely off metal, thus detecting vehicles in general.



*In certain situations it may respond to them.

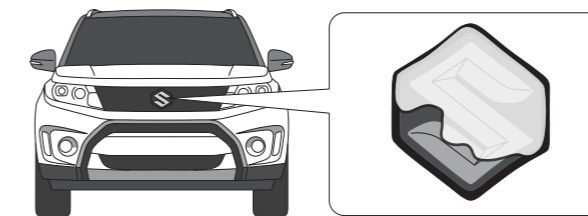
Basic Conditions for Operation

- The vehicle speed is 5km/h or above.
- RBS and ESP are not turned off.
- The gear position is in neither R nor P.

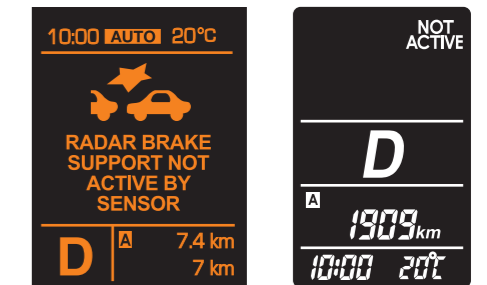
Conditions / Situations That Can Affect RBS Operation

RBS will not operate in certain conditions, such as:

When the millimetre-wave radar cover is covered with waterdrops, snow, or dirt, and the "NOT ACTIVE" notification appears on the multi-information display.

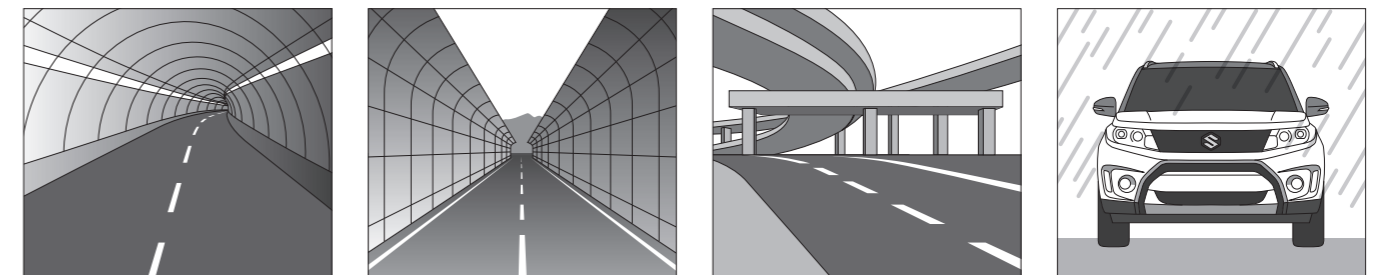


Samples of "NOT ACTIVE" Notification.



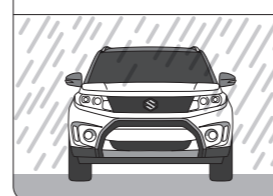
* "NOT ACTIVE" notification differs depending on models.

When millimetre-wave reflections are diffused while travelling in tunnels, beside noise barriers, or on roads near structures such as high bridges, or when visibility is very poor such as in heavy rain or snow, and the "NOT ACTIVE" notification appears temporarily.

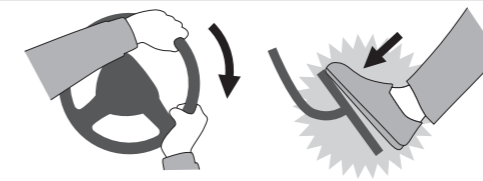


RBS might not operate in certain conditions, such as:

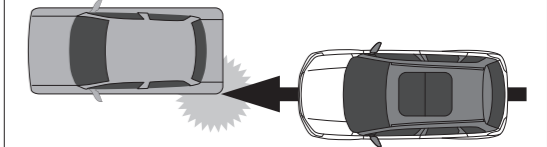
In bad weather.



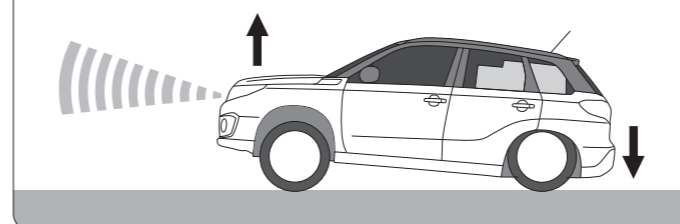
When the driver has taken evasive action, such as turning the steering wheel or pressing the accelerator.



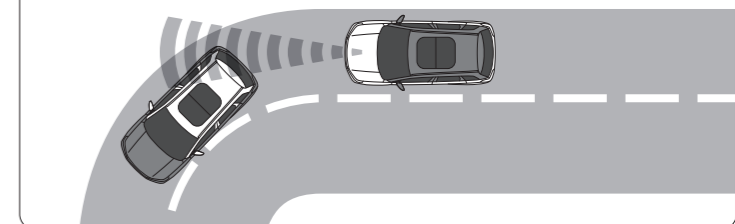
When there is a possibility of an offset collision with the vehicle in front.



When the vehicle is leaning due to a heavy load in the boot or rear seat.



When the vehicle is driving along a curve, or at the start or end of a curve.



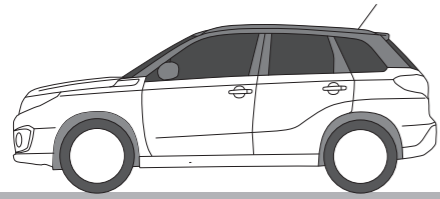
When the vehicle cannot run straight due to an accident or fault.



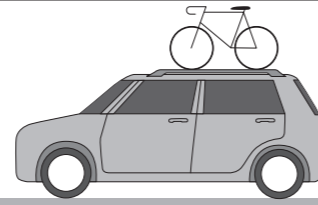
Conditions / Situations Which Might Affect Vehicle Detection

The millimetre-wave radar might not detect the vehicle in front under the following conditions and situations:

When the vehicle is not moving or is moving at an extremely low speed.



When the vehicle in front is carrying oddly shaped loads such as bicycles on the roof or the back.

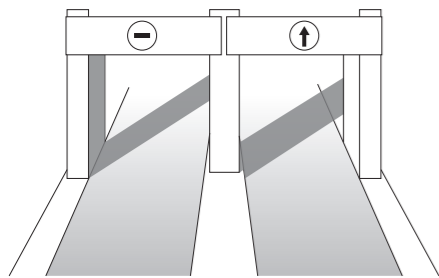


When the vehicle in front is in an unusual shape, such as a lorry with a low bed or car carrier trailer.

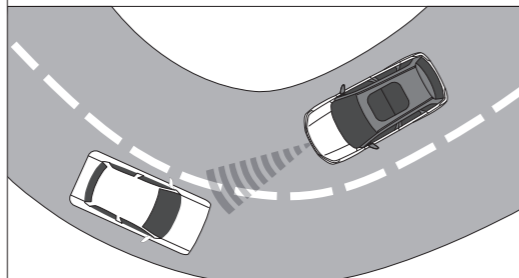


The millimetre-wave radar might incorrectly detect the following items or in following and warn the driver:

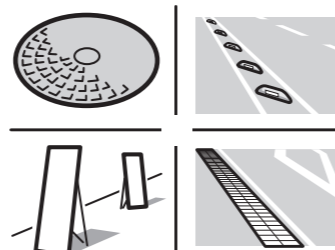
When passing through a toll gate.



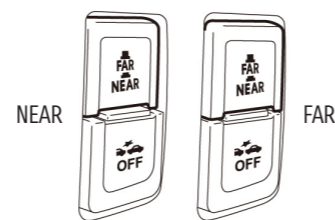
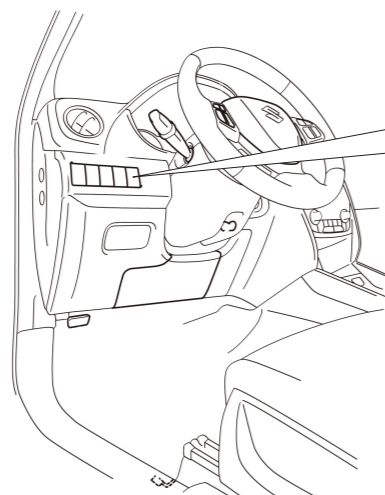
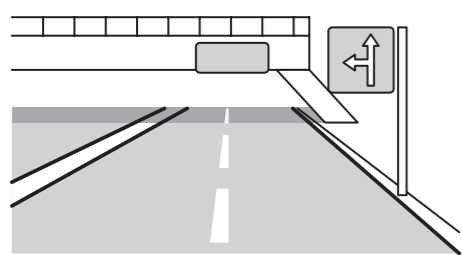
When passing by an oncoming vehicle on a sharp curve of a narrow road.



When there are bumps, fallen objects, manhole covers and other metal objects on the road.



When there are pedestrian bridges, elevated bridges, overpasses or road signs.



If the radar frequently detects such items as vehicles and warns the driver, the radar can be made less responsive by setting the FAR/NEAR button to "NEAR", although the "FAR" setting, which gives the driver warnings earlier, is recommended. Setting to "NEAR" does not affect automatic braking operation.

Q. Does the function of the millimetre-wave radar differ during day and night?
Does it get affected by weather conditions?

A. There are no differences between day and night-time use. Since the millimetre-wave radar utilises radio waves, it is less affected by weather conditions than laser radar on cars of other makes. However, the radar might not detect properly in bad weather such as heavy rain, fog and snow.

Q. When the millimetre-wave radar cover gets dirty, is it safe to wash the cover in an automated carwash or with a high pressure cleaner?
Is it safe to apply wax or other water repellent to the cover?

A. Yes, you may wash the millimetre-wave radar in an automated carwash or with a high pressure cleaner. As there is possibility that the radar may not be able to detect if the radar cover is covered in snow or mud, be sure to wash the dirt off the radar cover. Also, try to keep the cover clean on a daily basis. There is no problem with using wax or water repellents.

Q. If the front radome is knocked in an accident can it still be used without any problems, assuming that it is not broken?

A. The RBS system uses the millimetre-wave radar reflections to detect obstacles. Accordingly, if the radome is pointing towards a direction different to the original settings it may not be able to detect accurately. In such situations, please bring the vehicle to a Suzuki dealer and have the radar checked and adjusted if needed.

Q. Does the system respond to vehicles suddenly cutting in?

A. The RBS system uses the waves emitted from the millimetre-wave radar from the front grille radome to measure the distance of the car in front. Therefore, in principle, the system does not respond to another vehicle cutting in from outside the detection range. However, in some situations, it might do so.

Q. Can we adjust the volume of the buzzer?

A. The volume of the buzzer cannot be adjusted, nor can the buzzer be turned off.

Q. Would it be harmful if we touch the millimetre-wave radar, or look directly into it?

A. No, the millimetre-wave radar is not harmful.

Q. Is there anything the millimetre-wave radar finds difficult to detect?

A. Since the millimetre-wave radar responds by reflecting largely off metal, objects made of plastic materials such as pylons may not be detected as obstructions. Furthermore, pedestrians, bicycles, motorcycles, animals and trees might not be detected.

Q. Does the radar require regular maintenance?

A. Although the millimetre-wave radar itself does not require maintenance, if the cover gets dirty, please wipe it with a cloth to maintain detection performance.

Q. Why does the automatic braking function not work at speeds of less than 5km/h?

A. This function does not operate at speeds of less than 5km/h because there will be situations, such as in a car park, where you need to position the vehicle very close to other vehicles.

Q. Does the system operate on slopes?

A. Radar Brake Support also operates on slopes. However, braking distance may be longer when driving downhill, or depending on road conditions.

Q. Are there any accessories that cannot be installed due to incompatibility with the millimetre-wave radar sensor?

A. As long as they are Suzuki genuine accessories, they are compatible with the millimetre-wave radar.

Q. Does RBS operate even when not wearing a seatbelt?

A. Yes it does. However, as strong braking occurs during automatic braking, please make sure all occupants wear seatbelts.

⚠ WARNING

- The Radar Brake Support system may not function properly in certain situations.
- The system might not be able to avoid collisions or reduce damage in a collision depending on the type of obstacle, weather conditions, road conditions or other circumstances.
- The system might not operate if the driver takes evasive action by manipulating the steering wheel or accelerator.
- There is a limit to Radar Brake Support's ability to detect obstacles and control the vehicle. Please do not rely on the system; always drive safely.
- Please make sure to read the owner's manual, as it contains important information for your safety.
- For additional information, please contact a Suzuki dealer.