

BLIND SPOT MONITOR

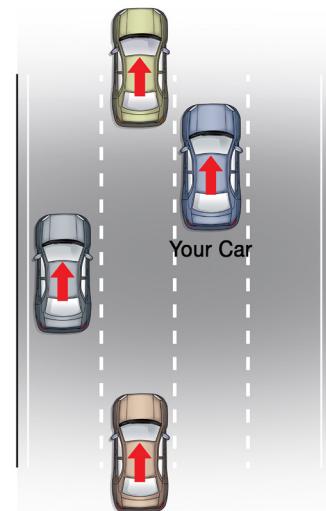


CHALLENGE #1: LANE WIDTH

The detection area of your Blind Spot Monitoring is based on the lane width of typical highways. Therefore, when you drive on a road with unusual lane width, your BSM may not work properly.

What would you do?

Suppose you are driving on a road with a lane width of 12 feet. And suppose the width of each BSM detection area is 15 feet. Using this information and image, answer the question below.



What would your BSM detect? Why?

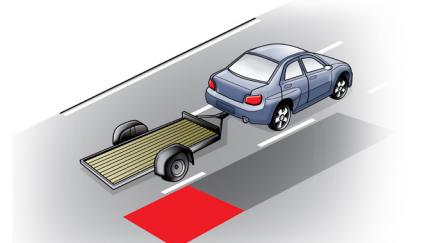
BLIND SPOT MONITOR



CHALLENGE #2: TOWING A TRAILER

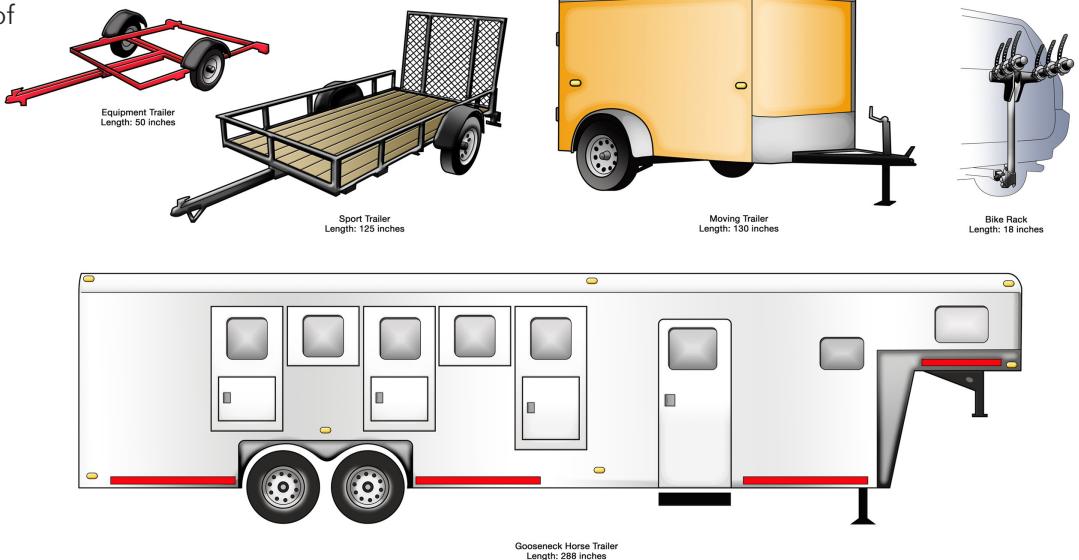
Your Blind Spot Monitoring detection areas extend from the side view mirrors to approximately 10 feet beyond the rear bumper. However, the detection areas do not change if your car is towing a trailer. You should visually verify the next lane is clear for both your car and trailer before making a lane change.

In this image, suppose the gray area is the detection area of your Blind Spot Monitoring. It does not extend to the red area, which is part of your blind spot areas when your car is towing a trailer. If another car enters the red area, the BSM indicator will not light up.



What would you do?

When you are towing each of the following trailers, would you potentially have any problem using your BSM?



Would you have any problems towing these objects? Why or why not?

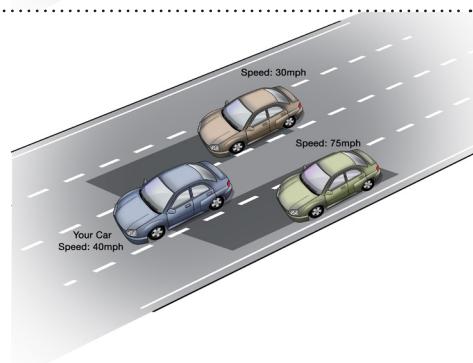
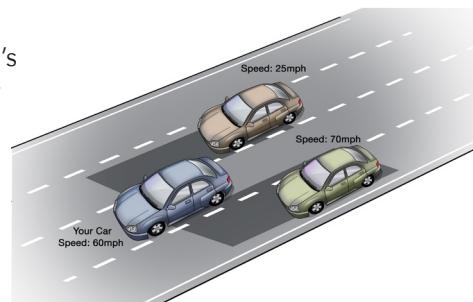
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CHALLENGE #3: SPEED DIFFERENCE

Your Blind Spot Monitoring system has a "speed difference range." If your BSM's speed difference range is 30 mph, and you are driving 30 mph faster or slower than another car, then your system may not detect that car.

The speed difference range is 30 mph in most BSM systems. In this image, your BSM can detect the green car, but not the tan car. This is because the difference in speed between your car and the tan car is 35 mph, which is greater than your speed difference range.



What would you do?

Imagine yourself driving the blue car. Suppose your BSM speed difference range is 30 mph. Use this information and image to answer the questions below.

What would your BSM detect?

What should you do in this situation?

What should you do in this situation? I should visually verify the adjacent lane is clear before making a lane change.

the difference in speed between my car and the green car is greater than the threshold.

What would your BSM detect? My BSM can only detect the tan car. It cannot detect the green car because

Experts' Challenge Answer:

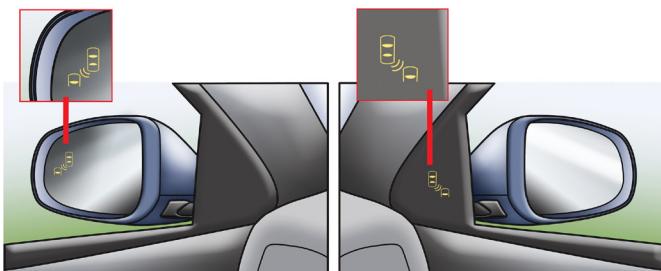
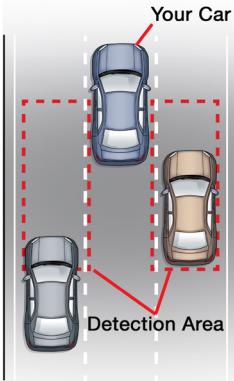
BLIND SPOT MONITOR



Understand

WHAT IS IT?

Blind Spot Monitoring (BSM) helps you detect cars in hard-to-see areas, commonly known as "blind spots." BSM may also be called Blind Spot Information Systems, Blind Spot Detection, or Blind Spot Warning. BSM systems monitor the blind spots on both sides of your car. When a car is detected, a yellow or red indicator will light up in the side mirror or on the window frame. Some systems also provide a warning sound. BSM helps you to avoid crashes that occur in blind spot areas. They are most effective when your car is passing, being passed, or preparing to make a lane change.



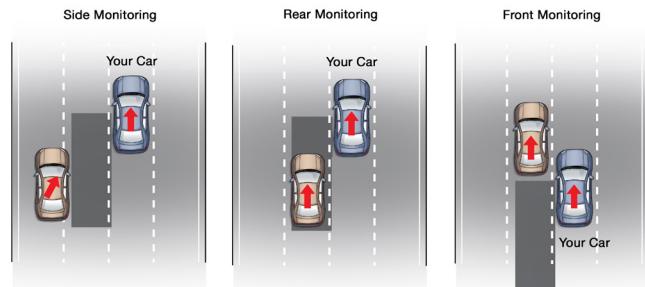
HOW TO USE IT?

In some cars, BSM is activated when you drive above a certain speed. The warning light will briefly illuminate in both outside rearview mirrors or window frames to let you know that the system is operational. It remains on while the transmission is in DRIVE and NEUTRAL. You can then choose to turn it off.

In some cars, you will need to switch the system on or off manually by pressing the BSM button.

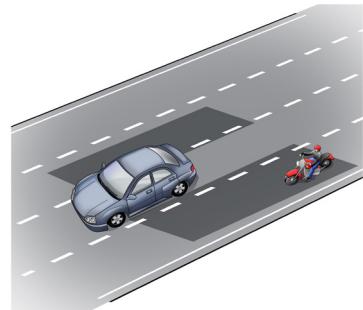
HOW DOES IT WORK?

Most Blind Spot Monitoring systems use radar sensors, but some use cameras. The sensors are usually located under the rear bumper or side view mirrors. The sensors monitor the areas behind and next to your car. The detection area covers approximately one lane width on both sides of your car. It extends from the side view mirrors to approximately 10 feet beyond the rear bumper. BSM detects cars entering your blind spots from the side, rear, and front.



When a car is detected, a yellow or red light will light up in the corresponding side mirror or window frame. Some systems emit a warning sound as well. In some cars, if the turn signal is on when there is a car in your blind spot, the steering wheel will vibrate briefly and the indicator light will flash brightly.

Keep in mind that your Blind Spot Monitoring is not designed to detect small objects such as motorcycles and bicycles. In this image, when the motorcycle is in your blind spot, the BSM indicator may not light up because the sensors do not detect it.



In this situation, the motorcycle may not be detected by the BSM