

Challenge yourself: Lane Departure Warning

Challenge: Lane Marking

Lane departure warning systems monitor the lane markings when you are driving. If the lane markings are difficult to see or not detectable, your lane departure warning system may not recognize the lanes. In the image, the lane markings on the right side of your lane have faded. So, if your car drifts to the right out of the traffic lane, your lane departure warning system may not detect the lane markings and may not alert you.



What would you do? Lane Marking

Imagine you are driving a car equipped with a lane departure warning system in the



Figure A



Figure B

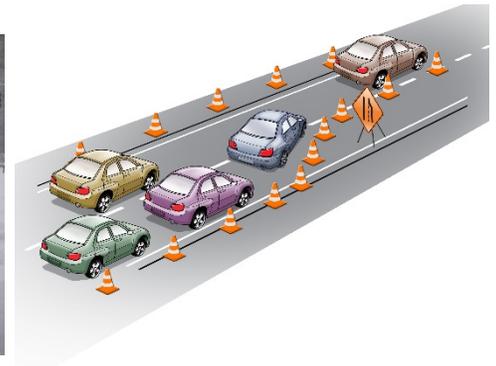


Figure C

following conditions. Think about the questions below.

1. How might your lane departure warning system respond?

(A)

(B)

(C)

2. What should you do?

(A)

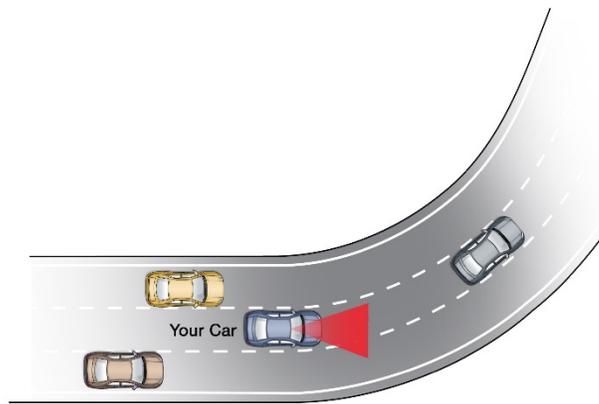
(B)

(C)

Challenge yourself: Lane Departure Warning

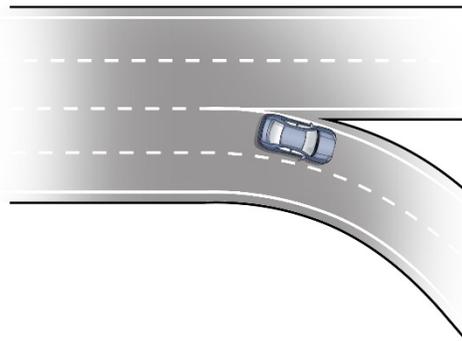
Challenge: Curving Roads

Your lane departure warning system is designed for roads without sharp curves, like non-curving highways. Because the camera only looks forward, the system may have trouble detecting lane markings on curving roads. In the image below, your lane departure warning system may not recognize the lane markings on the left near the curve. It may also incorrectly indicate that you are too close to the right even though you are in the middle of a lane.



What would you do? Curving Roads

Imagine yourself driving the blue vehicle, which is equipped with lane departure warning system. Think about the questions below.



1. How might your lane departure warning system respond?

2. What should you do?

Experts' Challenge Answers

On this page, you'll find our answers to the scenario problems you answered.

Lane Marking

Answer:

How might my lane departure warning system respond?

In the rain, when I drive on a wet road surface following another car, my lane departure warning camera may perceive the tire tracks in the water as lane lines and give me an incorrect alert. In addition, my lane departure warning system may not detect lane markings when there is any kind of moisture on the ground. Always remember, never use lane departure warning systems during bad weather.

In the snow, the lane markings may be covered, so my lane departure warning system may not recognize the lines and may not alert me when my car drifts out of the lane.

When the road is under construction, the system may not work correctly when my car is driven on a temporary lane. My lane departure warning system will still monitor the original lane markings and give me a wrong alert.

What should I do?

In all situations, I should not rely on my lane departure warning system, and be aware of the surroundings and the traffic in my lane.

Curving Roads

Answer:

How might my lane departure warning system respond?

My lane departure warning system may give me an unexpected alert that I am too close to the left lane (when I am driving in the middle of a lane) because it may detect the left lane marking on the curve.

What should I do?

I should not rely on my lane departure warning system, and be aware of my surroundings and the traffic in my lane.