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| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** CRUISE CONTROL: LANE DEPARTURE ALERT SYSTEM: GENERAL; 2013 MY RAV4 [12/2012 - ] | | |

# GENERAL

## 1. OUTLINE

(a) The lane departure alert system uses a lane departure warning camera to detect lane markers on the road surface and activates the lane departure warning when needed.

(b) The lane departure alert system also operates on roads with onlyone lane marker.

(c) The lane departure alert system is controlled by the lane departure warning camera.

## 2. PRECAUTION

(a) Ignition Switch Expressions

(1) The type of ignition switch used on this model differs depending on the specifications of the vehicle. The expressions listed in the table below are used in this section.

| EXPRESSION | IGNITION SWITCH (POSITION) | ENGINE SWITCH (CONDITION) |
|---|---|---|
| Ignition Switch off | LOCK | Off (Lock) |
| Ignition Switch ACC | ACC | On (ACC) |
| Ignition Switch ON | ON | On (IG) |
| Engine Start | START | On (Start) |

(b) General Handling Precautions

(1) Use the lane departure alert system with clear lane markers.

(2) The lane departure alert system alerts the driver of unintentional deviation from the lane.

(3) Keep the windshield glass clean around the area where the lane departure warning camera is mounted. The performance of lane departure warning camera assembly may be affected if dirt, raindrops, condensation or snow is on the windshield glass.

(4) Do not attach stickers or labels, nor affix any ornaments to the windshield glass.

(5) Do not touch lens of the lane departure warning camera. Fingerprints left on the lens may cause inaccurate detection or non-detection and lane markers may not be detected accurately.

(6) Do not remove the lane departure warning camera. Since the angle of the lane departure warning camera assembly is precisely adjusted, angle adjustment must be performed after the lane departure warning camera is reinstalled, otherwise the lane departure warning camera assembly may not recognize lane markers properly.

(7) Do not subject the lane departure warning camera to strong forces.

(8) When the system detects a malfunction during lane departure alert system operation, the buzzer sounds, the LDA main indicator light turns green to yellow, and the lane departure alert system stops operating.

- Since this does not interrupt normal driving, keep driving carefully.

- When the engine is stopped and started again and the LDA main switch is turned on, the lane departure alert system can be resumed as soon as the system returns to normal.
- If the LDA main indicator light turns from green to yellow, even though these operations are completed, the system is malfunctioning. Contact a dealer.

(9) Trailer towing may lead to performance decline.

(10) Changing tires (including changing to studless tires) or changing suspension parts may lead to a decline in performance.

(c) Precautions Concerning Road Conditions

(1) If the system cannot recognize lane markers under the following conditions, the system will not operate:

- There are no lane markers on the road, for example, before tollgates
- Unclear lane markers
- The road surface reflects the bright sunlight
- The road surface is a bright color, for example, concrete roads
- Brightness changes suddenly, for example, tunnel entrances or exits
- In backlight
- Roads where gradient changes, on winding roads or on uneven road surfaces
- In bad weather
- Ice, snow or water puddles is on the road

(2) If the distance between vehicles is extremely short, lane markers may not be recognized correctly. Maintain an appropriate distance between vehicles.

(3) When the vehicle is parked during hot weather, the system will not operate for a while after the vehicle starts running. When the temperature in the cabin reaches the appropriate level at which the lane departure warning camera can operate, the system can be resumed.

(d) Precautions for Lane Departure Alert System

(1) Keep the vehicle in the lane by turning the steering wheel appropriately and drive carefully.

- The lane departure alert system does not prevent lane deviation. The system only alerts the driver of lane deviation by displaying a warning message and sounding a buzzer.
- When the alarm is activated, operate the steering wheel appropriately to guide the vehicle back into the lane.
- The alarm can be activated while the vehicle is running between approximately 50 km/h (32 mph) and 220 km/h (138 mph).

(2) The alarm may be activated early or may not be activated depending on conditions around the vehicle. The driver is required to operate the steering wheel to correct the vehicle path while paying attention to road conditions and traffic.

- When there are any strip-shaped patterns, such as shades, ruts or blurred lane markers that are no longer used on the road, the system may mistakenly recognize them as lane markers. Turn the LDA main switch off under such road surface conditions.