

Adaptive Cruise Control (ACC)

Helps maintain a constant vehicle speed and a set following-interval behind a vehicle detected ahead of yours, without you having to keep your foot on the brake or the accelerator.

When ACC slows your vehicle by applying the brakes, your vehicle's brake lights will illuminate.

When to use

The camera is located behind the rearview mirror.

The radar sensor is behind the emblem.

- Vehicle speed for adaptive cruise control: Desired speed in a range above roughly 25 mph (40 km/h) ~
- Shift positions for ACC: In **D** or **S**.

Adaptive Cruise Control (ACC)

⚠ WARNING

Improper use of ACC can lead to a crash.

Use ACC only when driving on expressways or freeways and in good weather conditions.

⚠ WARNING

ACC has limited braking capability.

When your vehicle speed drops below 22 mph (35 km/h), ACC will automatically cancel and no longer will apply your vehicle's brakes.

Always be prepared to apply the brake pedal when conditions require.

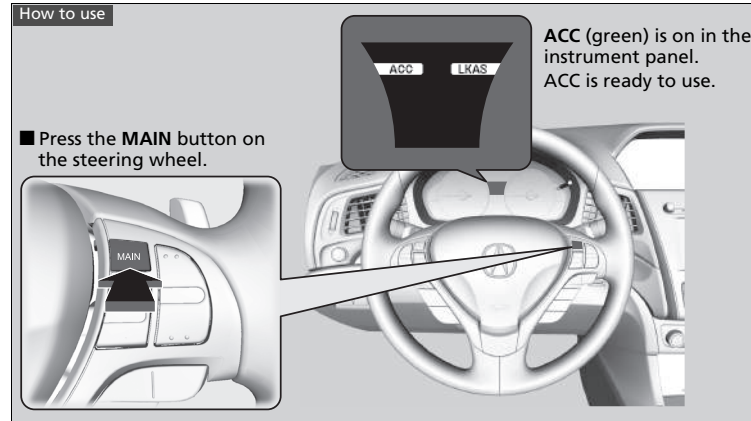
Important Reminder

As with any system, there are limits to ACC. Use the brake pedal whenever necessary, and always keep a safe interval between your vehicle and other vehicles.

For directions on the proper handling of the radar sensor, refer to the following page.

▶ Radar Sensor

■ How to activate the system



▣ Adaptive Cruise Control (ACC)

You can read about handling information for the camera equipped with this system.

▣ Front Sensor Camera

When the **MAIN** button is pressed, both ACC and the Lane Keeping Assist System (LKAS) are either turned on or off.

ACC may not work properly under certain conditions.

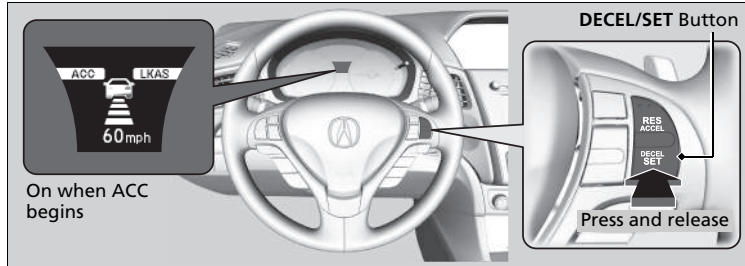
▣ ACC Conditions and Limitations

When not using ACC: Turn off adaptive cruise by pressing the **MAIN** button. This also will turn off the Lane Keeping Assist System (LKAS).

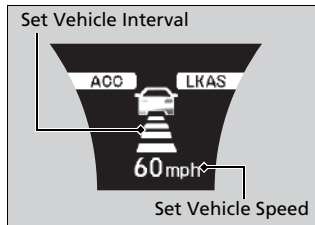
Do not use ACC under the following conditions:

- On roads with heavy traffic or while driving in continuous stop and go traffic.
- On roads with sharp turns.
- On roads with steep downhill sections, as the set vehicle speed can be exceeded by coasting. In such cases, ACC will not apply the brakes to maintain the set speed.
- On roads with toll collection facilities or other objects between lanes of traffic, or in parking areas, or facilities with drive through access.

■ To Set the Vehicle Speed



Take your foot off the pedal and press the **DECEL/SET** button when you reach the desired speed.



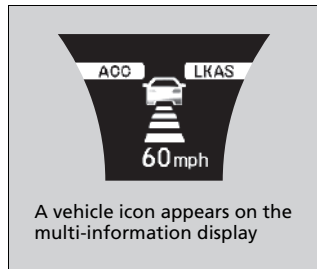
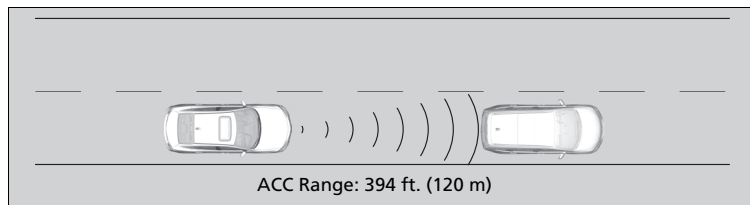
The moment you release the button, the set speed is fixed, and ACC begins.

- ▶ When ACC starts operating, the vehicle icon, interval bars and set speed appear on the multi-information display.

■ When in Operation

■ There is a vehicle ahead

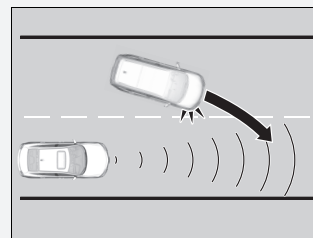
ACC monitors if a vehicle ahead of you enters the ACC range. If a vehicle is detected doing so, the ACC system maintains or decelerates your vehicle's set speed in order to keep the vehicle's set following-interval from the vehicle ahead.



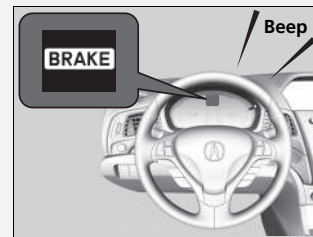
When a vehicle whose speed is slower than your set speed is detected in front of you, your vehicle starts to slow down.

⊠ When in Operation

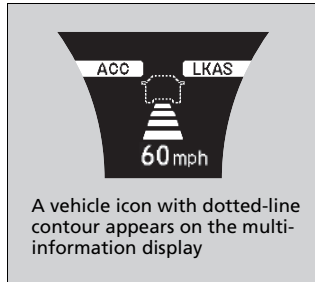
If the vehicle detected ahead of you slows down abruptly, or if another vehicle is detected cutting in front of you, the beeper sounds and a message appears on the multi-information display.



Depress the brake pedal, and keep an appropriate interval from the vehicle ahead.



■ **There is no vehicle ahead**



Your vehicle maintains the set speed without having to keep your foot on the brake or accelerator pedal.

If there previously was a vehicle detected ahead that kept your vehicle from traveling at the set speed, ACC accelerates your vehicle to the set speed, and then maintains it.

■ **When you depress the accelerator pedal**

You can temporarily increase the vehicle speed. In this case, there is no audible or visual alerts even if a vehicle is in the ACC range.

ACC stays on unless you cancel it. Once you release the accelerator pedal, the system resumes the set speed.

There are times when the vehicle speed will decrease when the accelerator pedal is lightly applied.

⌘ **When in Operation**

Even if the interval between your vehicle and the vehicle detected ahead is short, ACC may start accelerating your vehicle under the following circumstances:

- The vehicle ahead of you is going at almost the same speed as, or faster than, your vehicle.
- A vehicle that cuts in front of you is going faster than your vehicle, gradually increasing the interval between the vehicles.

You can also set the system to beep when a vehicle in front of you comes in and goes out of the ACC detecting range. Change the **ACC Forward Vehicle Detect Beep** setting.

Limitations

You may need to use the brake to maintain a safe interval when using ACC. Additionally, ACC may not work properly under certain conditions.

⌘ **ACC Conditions and Limitations**

■ ACC Conditions and Limitations

The system may automatically shut off and the **ACC** indicator will come on under certain conditions. Some examples of these conditions are listed below. Other conditions may reduce some of the ACC functions.

✕ Front Sensor Camera

✕ Radar Sensor

■ Environmental conditions

Driving in bad weather (rain, fog, snow, etc.).

■ Roadway conditions

Driving on a snowy or wet roadway (obscured lane marking, vehicle tracks, reflected lights, road spray, high contrast).

■ Vehicle conditions

- The outside of the windshield is blocked by dirt, mud, leaves, wet snow, etc.
- An abnormal tire or wheel condition (wrong sized, varied size or construction, improperly inflated, compact spare tire*, etc.).
- The camera temperature gets too high.
- The parking brake is applied.
- When the front grille is dirty.
- The vehicle is tilted due to a heavy load or suspension modifications.
- When tire chains are installed.

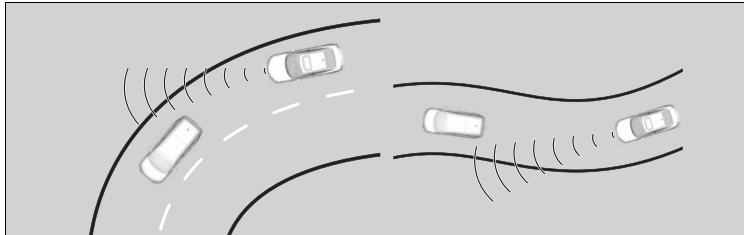
* Not available on all models

✕ ACC Conditions and Limitations

Have your vehicle checked by a dealer if you find any unusual behavior of the system (e.g., the warning message appears too frequently).

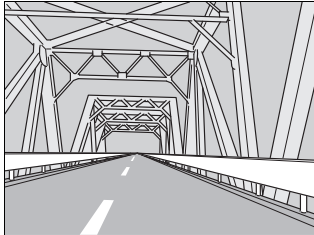
■ **Detection limitations**

- A vehicle suddenly crosses in front of you.
- The interval between your vehicle and the vehicle ahead of you is too short.
- A vehicle cuts in front of you at a slow speed, and it brakes suddenly.
- When you accelerate rapidly and approach the vehicle ahead of you at high speed.
- The vehicle ahead of you is a motorcycle, bicycle, mobility scooter, or other small vehicle.
- When there are animals in front of your vehicle.
- When you drive on a curved or winding or undulating road that makes it difficult for the sensor to properly detect a vehicle in front of you.

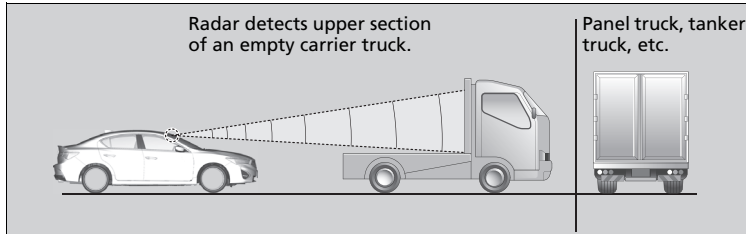


- The speed difference between your vehicle and a vehicle in front of you is significantly large.
- An oncoming vehicle suddenly comes in front of you.
- Your vehicle abruptly crosses over in front of an oncoming vehicle.

- When driving through a narrow metal bridge.



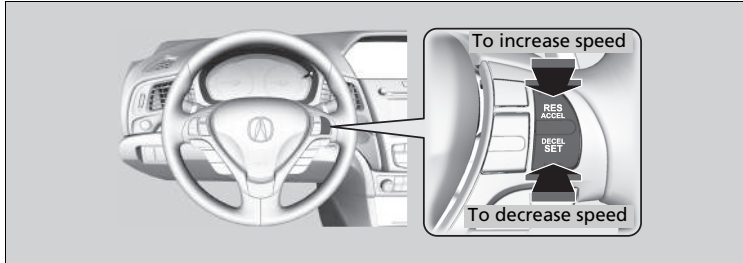
- When the vehicle ahead of you brakes suddenly.
- When the vehicle ahead of you has a unique shape.



- When your vehicle or the vehicle ahead of you is driving on one edge of the lane.

■ To Adjust the Vehicle Speed

Increase or decrease the vehicle speed using the **RES/ACCEL** or **DECEL/SET** buttons on the steering wheel.



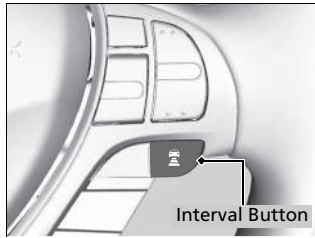
- Each time you press the button, the vehicle speed is increased or decreased by about 1 mph or 1 km/h accordingly.
- If you keep the button pressed, the vehicle speed increases or decreases by about 5 mph or 5 km/h accordingly.


☒ To Adjust the Vehicle Speed

If a vehicle detected ahead is going at a speed slower than your increased set speed, ACC may not accelerate your vehicle. This is to maintain the set interval between your vehicle and the vehicle ahead.

You can switch the displayed set speed measurements on the multi-information display or information screen between mph and km/h.

■ To Set or Change Following-interval







Press the  (interval) button to change the ACC following-interval.

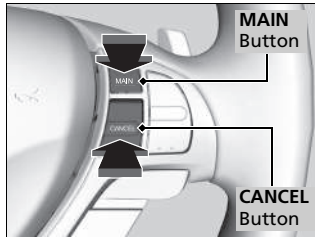
Each time you press the button, the following-interval (the interval behind a vehicle detected ahead of you) setting cycles through extra long, long, middle, and short following-intervals.

Determine the most appropriate following-interval setting based on your specific driving conditions. Be sure to adhere to any following-interval requirements set by local regulation.

The higher your vehicle's following-speed is, the longer the short, middle, long or extra long following-interval becomes. See the following examples for your reference.

| Following-interval | | When the Set Speed is: | |
|--------------------|---|----------------------------------|----------------------------------|
| | | 50 mph (80 km/h) | 65 mph (104 km/h) |
| Short |  | 84 feet 26 meters 1.1 sec | 102 feet 31 meters 1.1 sec |
| Middle |  | 111 feet 34 meters 1.5 sec | 139 feet 43 meters 1.5 sec |
| Long |  | 155 feet 48 meters 2.1 sec | 202 feet 62 meters 2.1 sec |
| Extra Long |  | 215 feet 66 meters 3.0 sec | 285 feet 87 meters 3.0 sec |

■ To Cancel



To cancel ACC, do any of the following:

- Press the **CANCEL** button.
- Press the **MAIN** button.
 - ▶ **ACC** indicator goes off.
- Depress the brake pedal.

☒ To Cancel

Resuming the prior set speed: After you have canceled ACC, you can resume the prior set speed while it is still displayed. Press the **RES/ACCEL** button when driving at a speed of at least 25 mph (40 km/h) or more.

The set speed cannot be set or resumed when ACC has been turned off using the **MAIN** button. Press the **MAIN** button to activate the system, then set the desired speed.

■ Automatic cancellation

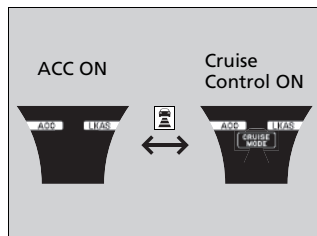
The beeper sounds and a message appears on the multi-information display when ACC is automatically canceled. Any of these conditions may cause the ACC to automatically cancel:


- Bad weather (rain, fog, snow, etc.)
- When the radar sensor behind the emblem gets dirty.
- The vehicle ahead of you cannot be detected.
- An abnormal tire condition is detected, or the tires are skidding.
- Driving on a mountainous road, or driving off road for extended periods.
- Abrupt steering wheel movement.
- When the ABS, VSA® or CMBS™ is activated.
- When the **ABS** or VSA® system indicator comes on.
- When you manually apply the parking brake.
- When the detected vehicle within the ACC range is too close to your vehicle.
- The camera behind the rearview mirror, or the area around the camera, including the windshield, gets dirty.


☒ Automatic cancellation

Even though ACC has been automatically canceled, you can still resume the prior set speed. Wait until the condition that caused ACC to cancel improves, then press the **RES/ACCEL** button.

■ To Switch ACC to Cruise Control



Press and hold the  (interval) button for one second. **Cruise Mode Selected** appears on the multi-information display for two seconds, and then the mode switches to Cruise.

To switch back to ACC, press and hold the  button again for one second. **ACC Mode Selected** appears on the multi-information display for two seconds.

■ When to use

Desired speed in a range above roughly 25 mph (40 km/h) ~.

■ To Set the Vehicle Speed

Take your foot off the pedal and press the **DECEL/SET** button when you reach the desired speed.

The moment you release the **DECEL/SET** button, the set speed is fixed, and cruise control begins. The **CRUISE CONTROL** indicator comes on.

■ To Adjust the Vehicle Speed

Each time you press the **RES/ACCEL** or **DECEL/SET** button, the vehicle speed is increased or decreased by about 1 mph (1.6 km/h).

If you keep the **RES/ACCEL** or **DECEL/SET** button pressed, the vehicle speed increases or decreases until you release it. This speed is then set.

⚠ To Switch ACC to Cruise Control

Always be aware which mode you are in. When you are driving in Cruise mode, the system will not assist you to maintain a following-interval from a vehicle ahead of you.

You can switch the displayed set speed measurements on the multi-information display or information screen between mph and km/h.

■ To Cancel

To cancel cruise control, do any of the following:

- Press the **CANCEL** button.
- Press the **MAIN** button.
- Depress the brake pedal.

The **CRUISE CONTROL** indicator goes off.

☒ To Cancel

Resuming the prior set speed:

After cruise control has been canceled, you can still resume the prior set speed by pressing the **RES/ACCEL** button while driving at a speed of at least 25 mph (40 km/h) or more.

You cannot set or resume in the following situations:

- When vehicle speed is less than 25 mph (40 km/h).
- When the **MAIN** button is turned off.

At vehicle speeds of 22 mph (35 km/h) or less, cruise control is canceled automatically.