

## Adaptive Cruise Control (ACC) with Low Speed Follow\*

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

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

### ▶ Adaptive Cruise Control (ACC) with Low Speed Follow\*

#### ⚠ WARNING

Improper use of ACC with Low Speed Follow can lead to a crash.

Use ACC with Low Speed Follow only when driving on expressways or freeways and in good road and weather conditions.

#### ⚠ WARNING

ACC with Low Speed Follow has limited braking capability and may not stop your vehicle in time to avoid a collision with a vehicle that quickly stops in front of you.

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

#### Important Reminder

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

#### When to use



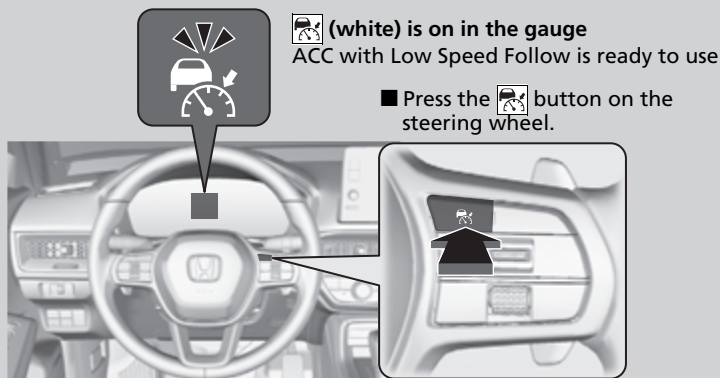
A front wide view camera is located behind the rearview mirror.



- Vehicle speed for ACC with Low Speed Follow: **A vehicle is detected ahead within ACC with Low Speed Follow range** – ACC with Low Speed Follow operates at speeds up to 90 mph (145 km/h).
- **No vehicle is detected within ACC with Low Speed Follow range** – ACC with Low Speed Follow operates at the speed of 25 mph (40 km/h) or above.
- Shift position for ACC with Low Speed Follow: In **D** or **S**\*.

## ■ How to activate the system

### How to use




### ⌘ Adaptive Cruise Control (ACC) with Low Speed Follow\*

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

➤ **Front Wide View Camera** P. 598

ACC with Low Speed Follow may not work properly under certain conditions.

➤ **ACC with Low Speed Follow Conditions and Limitations** P. 531

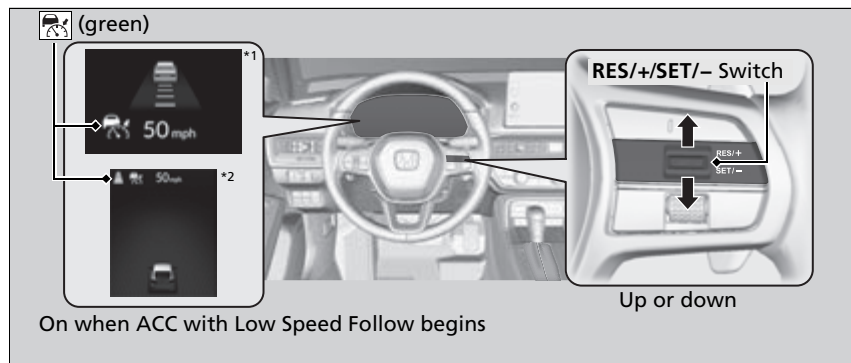
When not using ACC with Low Speed Follow: Turn off adaptive cruise by pressing the  button.

Do not use ACC with Low Speed Follow under the following conditions:

- On roads with frequent lane change or continuous stop and go traffic, ACC with Low Speed Follow cannot keep an appropriate distance between your vehicle and the vehicle ahead of you.
- On roads with sharp turns.
- On roads with toll collection facilities or other objects between lanes of traffic, or in parking areas, or facilities with drive through access.
- On roads with bad weather (rain, fog, snow, etc.), ACC with Low Speed Follow may not detect the distance between your vehicle and the vehicle ahead of you properly.
- On roads with slippery or icy surfaces. The wheels may spin out and your vehicle may lose the control on the condition.
- On roads with steep uphill or steep downhill slopes.
- On roads with undulating slopes.

\* Not available on all models

## ■ To Set the Vehicle Speed



**When driving at about 25 mph (40 km/h) or above:** Take your foot off the pedal and press the **RES/+SET/-** switch up or down when you reach the desired speed. The moment you release the switch, the set speed is fixed, and ACC with Low Speed Follow begins.

**When driving slower than about 25 mph (40 km/h):** If the vehicle is moving and the brake pedal is not depressed, pressing the switch fixes the set speed to about 25 mph (40 km/h) regardless of current vehicle speed. If your vehicle is stationary, you can set the vehicle speed even with the brake pedal depressed.

\*1: Models with A-type meter

\*2: Models with B-type meter

\* Not available on all models

## ▶▶ To Set the Vehicle Speed

The Vehicle Stability Assist™ (VSA®) system, Vehicle Stability Assist™ (VSA®) **OFF**, Adaptive Cruise Control (ACC) with Low Speed Follow, low tire pressure/TPMS\* and safety support indicators may come on in amber along with a message in the gauge when you set the power mode to ON after reconnecting the battery.

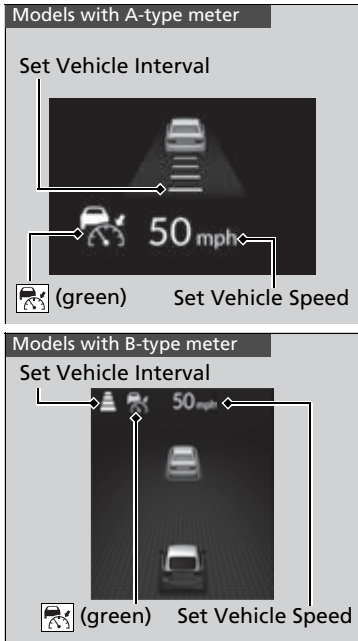
Drive a short distance at more than 12 mph (20 km/h). Each indicator should go off. If any do not, have your vehicle checked by a dealer.

You can switch the displayed set speed measurements on the driver information interface or audio/information screen\* between mph and km/h.

▶ **Settings** P. 129

▶ **Speed/Distance Units** P. 128, 154

▶ **Customized Features** P. 374



When ACC with Low Speed Follow starts operating, the vehicle icon, interval bars and set speed appear on the gauge.

When you use ACC with Low Speed Follow, Straight Driving Assist (a feature of the Electric Power Steering system) is activated.

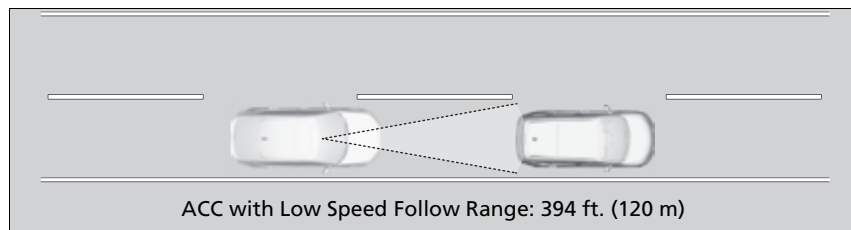
By enabling the steering system to automatically compensate for natural steering pull, Straight Driving Assist makes it easier for you to keep your vehicle in a straight line.

## ■ When in Operation

### ■ There is a vehicle ahead

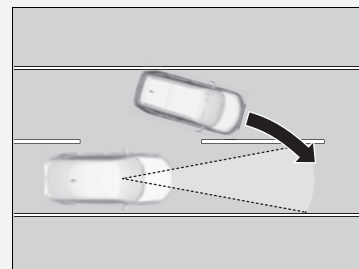
ACC with Low Speed Follow monitors if a vehicle ahead of you enters the ACC with Low Speed Follow range. If a vehicle is detected doing so, the ACC with Low Speed Follow system maintains or decelerates your vehicle's set speed in order to keep the vehicle's set following-interval from the vehicle ahead.

➡ **To Set or Change Following-interval** P. 536

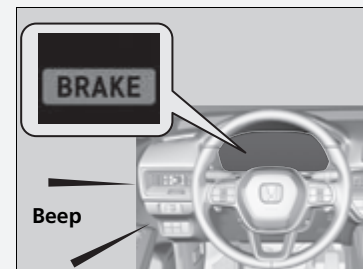


## ▶ When in Operation

If the vehicle ahead of you slows down abruptly, or if another vehicle cuts in front of you, a beeper sounds, a message appears on the driver information interface.



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



#### Models with A-type meter



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

#### Models with B-type meter

##### Control target vehicle



Outside of control target vehicle

Control target vehicle: White and outlined in green

Outside of control target vehicle: Gray

#### When in Operation

Even if the interval between your vehicle and the vehicle detected ahead is short, ACC with Low Speed Follow 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 with Low Speed Follow detecting range. A vehicle detect beep on and off can be selected.

➤ **Settings** P. 129

➤ **Customized Features** P. 374

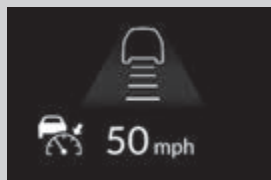
#### Limitations

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

➤ **ACC with Low Speed Follow Conditions and Limitations** P. 531

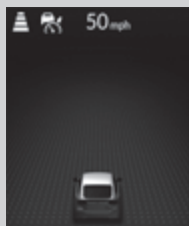
## ■ There is no vehicle ahead

### Models with A-type meter



A vehicle icon with line contour appears on the gauge.

### Models with B-type meter



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 with Low Speed Follow accelerates your vehicle to the set speed, and then maintains it.

On steep downhill during ACC with Low Speed Follow, it brakes to inhibit excessive acceleration for maintaining the set speed. However the vehicle speed may become faster than the set speed.

## ■ When you depress the accelerator pedal

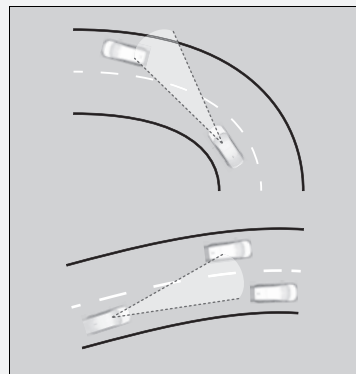
You can temporarily increase the vehicle speed. In this case, there is no audible or visual alert even if a vehicle is in the ACC with Low Speed Follow range.

ACC with Low Speed Follow 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

- ACC with Low Speed Follow may temporarily control the interval between your vehicle and the vehicle in adjacent lane or surroundings of your vehicle depending on the road conditions (e.g. curves) or vehicle conditions (e.g. operating the steering wheel or the vehicle location in the lane).



- When the vehicle ahead of you moves away, such as when entering an interchange or rest area, ACC with Low Speed Follow may continue to maintain the set following-interval for a short time.

■ A vehicle detected ahead is within ACC with Low Speed Follow range and slows to a stop

Models with A-type meter



Models with B-type meter



Your vehicle also stops, automatically. The **Stopped** message appears on the gauge. When the vehicle ahead of you starts again, the vehicle icon on the gauge blinks. If you press the **RES/+SET/-** switch up or down, or depress the accelerator pedal, ACC with Low Speed Follow operates again within the prior set speed.

▶▶ When in Operation

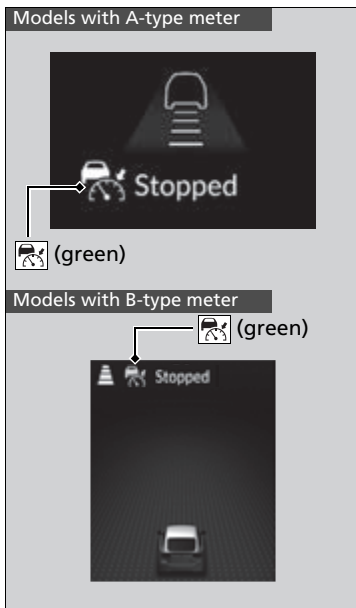
**⚠ WARNING**

Exiting a vehicle that has been stopped while the ACC with Low Speed Follow system is operating can result in the vehicle moving without operator control.

A vehicle that moves without operator control can cause a crash, resulting in serious injury or death.

Never exit a vehicle when the vehicle is stopped by ACC with Low Speed Follow.





If no vehicle is ahead of you before you resume driving, depress the accelerator pedal and ACC with Low Speed Follow will operate again within the prior set speed.

## ■ ACC with Low Speed Follow Conditions and Limitations

The system may automatically shut off under certain conditions. Some examples of these conditions are listed below. Other conditions may reduce some of the ACC with Low Speed Follow functions.

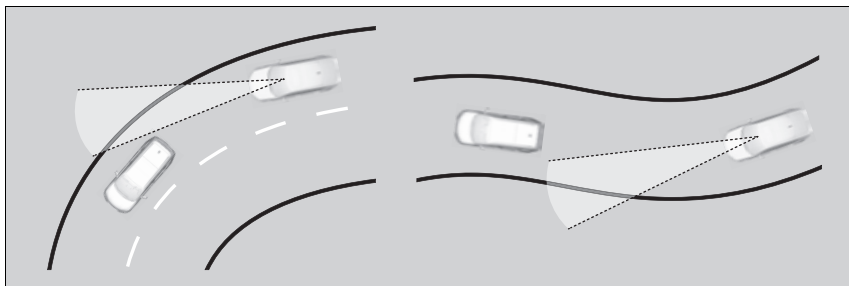
📷 **Front Wide View Camera** P. 598

### ■ Environmental conditions

- Driving in bad weather (rain, fog, snow, etc.).
- Sudden changes between light and dark, such as the entrance or exit of a tunnel or the shadows of trees, buildings, etc.
- Strong light is reflected onto vehicles or road surfaces.
- Water is sprayed by or snow blown from a vehicle ahead.
- Driving at night or in a dark place such as a tunnel (due to low-light conditions, the whole vehicle may not be illuminated).
- Driving into low sunlight (e.g., at dawn or dusk).

### ■ Roadway conditions

- Driving on curvy, winding, undulating, or sloping roads.



- Driving on rutted roads (snowy or unpaved roads, etc.).
- Puddles or a film of water is on the road surface.
- Your vehicle is strongly shaken on uneven road surfaces.

### ■ Vehicle conditions

- The vehicle is tilted due to heavy load in the cargo area or rear seats.
- Tire chains are installed.
- The front of the camera is covered by dirt, fog, rain, mud, wet snow, seals, accessories, stickers, or film of the windshield.
- Driving at night or in a dark place (e.g., a tunnel) with the headlights off.
- There is residue on the windshield from the windshield wipers.
- When lighting is weak due to dirt covering the headlight lenses, or there is poor visibility in a dark place due to the headlights being improperly adjusted.
- An abnormal tire or wheel condition (incorrect sizes, varied sizes or construction, improperly inflated, compact spare tire, etc.).
- The suspension has been modified.

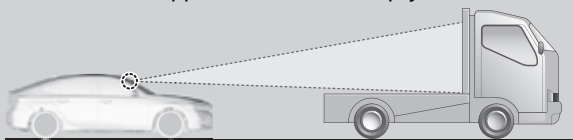
■ **Examples of conditions under which the camera may not correctly detect the vehicle ahead of you**

- A vehicle suddenly crosses in front of you.
- The interval between your vehicle and the vehicle ahead of you is too short.
- When the vehicle ahead of you blends in with the background, preventing the system from recognizing it.
- The headlights of the vehicle ahead of you are lit on one side or not lit on either side in a dark place.

■ **Examples of conditions under which the system may not work properly**

- A vehicle ahead of you stops and the speed difference between your vehicle and the vehicle ahead of you is significantly large.
- When the vehicle ahead of you slows suddenly.
- When the vehicle ahead of you is a specially shaped vehicle.
- When a vehicle is lower in the rear than the front such as trucks that are not carrying a load, or a narrow vehicle.

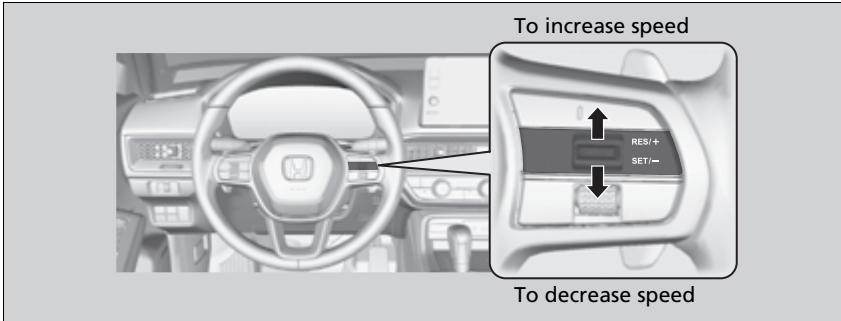
Camera detects upper section of an empty carrier truck.



- When your vehicle or the vehicle ahead of you is driving on the edge of the lane.
- When the vehicle ahead of you is a narrow vehicle such as a motorcycle.
- When the minimum ground clearance of a vehicle ahead of you is extremely high.
- When the camera cannot correctly identify the shape of the vehicle ahead of you.

## ■ To Adjust the Vehicle Speed

Increase or decrease the vehicle speed using the **RES/+ / SET/-** switch on the steering wheel.



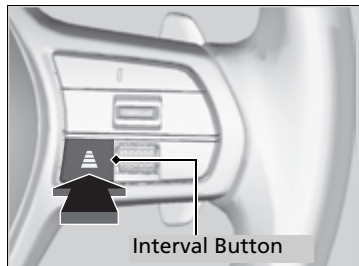
- Each time you press the **RES/+ / SET/-** switch up or down, the vehicle speed is increased or decreased by about 1 mph or 1 km/h accordingly.
- If you keep the **RES/+ / SET/-** switch pressed up or down, the vehicle speed increases or decreases by about 5 mph or 5 km/h accordingly.

## ☒ To Adjust the Vehicle Speed

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

When you depress the accelerator pedal and then press down and release the **RES/+ / SET/-** switch, the current speed of the vehicle is set.

## ■ To Set or Change Following-interval











Press the Interval button to change the ACC with Low Speed Follow following-interval.

Each time you press the button, the following-interval (the interval behind a vehicle detected ahead of you) setting cycles through furthest, far, mid, and nearest 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 nearest, mid, far or furthest 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)
Nearest	<div>*1 </div> <div>*2 </div>	87.3 feet 26.6 meters 1.2 sec	110.6 feet 33.7 meters 1.2 sec
Mid	<div>*1 </div> <div>*2 </div>	113.4 feet 34.6 meters 1.6 sec	147.2 feet 44.9 meters 1.6 sec
Far	<div>*1 </div> <div>*2 </div>	144.2 feet 44.0 meters 2.0 sec	187.3 feet 57.1 meters 2.0 sec
Furthest	<div>*1 </div> <div>*2 </div>	175.9 feet 53.6 meters 2.4 sec	229.6 feet 70.0 meters 2.4 sec

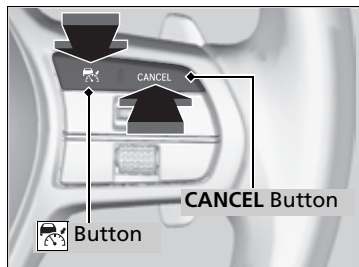
When your vehicle stops automatically because a vehicle detected ahead of you has stopped, the interval between the two vehicles will vary based on the ACC with Low Speed Follow interval setting.

\*1: Models with A-type meter

\*2: Models with B-type meter



## ■ To Cancel



To cancel ACC with Low Speed Follow, do any of the following:

- Press the **CANCEL** button.
  - ▶ The indicator (green) on the gauge changes to the indicator (white).
- Press the button.
  - ▶ indicator (green) goes off.
- Depress the brake pedal while the vehicle is moving forward.
  - ▶ The indicator (green) on the gauge changes to the indicator (white).

## ▶▶ To Cancel

Resuming the prior set speed: After you have canceled ACC with Low Speed Follow, you can activate the ACC with Low Speed Follow with the prior set speed displayed on the gauge (in gray) by pressing the **RES/+SET/-** switch up even if the vehicle is stopped.

When you turn the ACC with Low Speed Follow off by pressing the **CANCEL** button or depressing the brake pedal, the prior set speed is displayed on the gauge in gray.

When pressing the **RES/+SET/-** switch up, the ACC with Low Speed Follow is activated with displayed speed.

If the indicator (white) is displayed and you press the **RES/+SET/-** switch up, but no prior set speed (in gray) is displayed, the speed will be set to your vehicle's current speed.

## ■ Automatic cancellation

The beeper sounds and a message appears on the driver information interface when ACC with Low Speed Follow is automatically canceled. Any of these conditions may cause the ACC with Low Speed Follow to automatically cancel:

- Bad weather (rain, fog, snow, etc.)
- 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®, CMBST™, or Low Speed Braking Control\* is activated.
- When the VSA® system indicator comes on.
- When the vehicle is stopped on a very steep slope.
- When you manually apply the parking brake.
- Water is sprayed by or snow blown from a vehicle ahead.
- Driving into low sunlight (e.g., at dawn or dusk).
- When the detected vehicle within the ACC with Low Speed Follow range is too close to your vehicle.
- When accelerating rapidly.
- The front of the camera is covered by dirt, fog, rain, mud, wet snow, seals, accessories, stickers, or film on the windshield.
- The vehicle is loaded heavy load in the cargo area or rear seats.
- When passing through a dark place, such as tunnel.
- When the parking brake and brake system indicator (amber) comes on.
- The vehicle has repeatedly applied the brakes to maintain the set speed (for example, you are descending a long slope).
- When the system doesn't detect any driving actions from the driver for a certain amount of time while the LKAS is also activated.

The ACC with Low Speed Follow automatic cancellation can be also triggered by the following causes. In these cases, the parking brake will be automatically applied.

- The driver's seat belt is unfastened when the vehicle is stationary.
- The vehicle stops for more than 10 minutes.
- The engine is turned off.

\* Not available on all models

▶▶ To Cancel

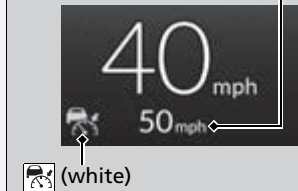
Models with A-type meter



Prior Set Speed (gray)



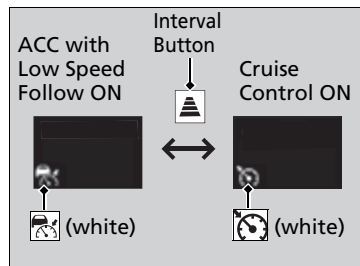
Models with B-type meter

Prior Set Speed (gray)



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

## ■ To Switch ACC with Low Speed Follow to Cruise Control



Press and hold the Interval button for one second. **Cruise mode selected** appears on the driver information interface for two seconds, and then the mode switches to Cruise.

The  indicator comes on.

- Green: The system is on.
- White: The system is standby.


To switch back to ACC with Low Speed Follow, press and hold the Interval button again for one second.

## ■ 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 **RES/+ / SET/-** switch up or down when you reach the desired speed.

The moment you release the **RES/+ / SET/-** switch, the set speed is fixed, and cruise control begins. The color of  indicator changes from white to green.

When you use cruise control, Straight Driving Assist (a feature of the Electric Power Steering system) is activated.

By enabling the steering system to automatically compensate for natural steering pull, Straight Driving Assist makes it easier for you to keep your vehicle in a straight line.

\* Not available on all models

## ▶ To Switch ACC with Low Speed Follow 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 cannot switch ACC with Low Speed Follow to Cruise Control in the following situations:

- When the vehicle speed is set.
- When ACC with Low Speed Follow is not activated.

You can switch the displayed set speed measurements on the driver information interface or audio/information screen\* between mph and km/h.

▶ **Settings** P. 129

▶ **Speed/Distance Units** P. 128, 154







▶ **Customized Features** P. 374

## ■ To Adjust the Vehicle Speed

- Each time you press the **RES/+SET/-** switch up or down, the vehicle speed is increased or decreased by about 1 mph or 1 km/h accordingly.
- If you keep the **RES/+SET/-** switch pressed up or down, the vehicle speed increases or decreases by about 5 mph or 5 km/h accordingly.


## ■ To Cancel

To cancel cruise control, do any of the following:

- Press the **CANCEL** button.
  - ▶ The  indicator (green) on the gauge changes to the  indicator (white).
- Press the  button.
  - ▶ The  indicator (green) goes off.
- Depress the brake pedal.
  - ▶ The  indicator (green) on the gauge changes to the  indicator (white).

### ▶▶ To Cancel

Resuming the prior set speed: After you have canceled cruise control, you can activate the cruise control with the prior set speed displayed on the gauge (in gray) by pressing the **RES/+SET/-** switch up while driving at a speed of at least 25 mph (40 km/h) or more.


When you turn the cruise control off by pressing the **CANCEL** button or depressing the brake pedal, the prior set speed is displayed on the gauge in gray. When pressing the **RES/+SET/-** switch up, the cruise control is activated with displayed speed. If the  indicator (white) is displayed and you press the **RES/+SET/-** switch up, but no prior set speed (in gray) is displayed, the speed will be set to your vehicle's current speed.

▶▶ To Cancel

Models with A-type meter

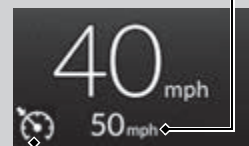
Prior Set Speed (gray)




 (white)


Models with B-type meter

Prior Set Speed (gray)



 (white)

You cannot set or resume in the following situations:

- When vehicle speed is less than 25 mph (40 km/h)
- When cruise control is canceled by pressing the  button.

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