

## Brake System

### ■ Parking Brake

Use the parking brake to keep the vehicle stationary when parked. When the parking brake is applied, you can manually or automatically release it.



#### ■ To apply

The electric parking brake can be applied any time the vehicle has battery, no matter which position the power mode is in.

Pull the electric parking brake switch up gently and securely.

- ▶ The indicator in the switch comes on.
- ▶ The parking brake indicator (red) comes on.

### ⌘ Braking

When you depress the brake pedal, you may hear a whirring sound from the engine compartment. This is because the brake system is in operation, and it is normal.

### ⌘ Parking Brake

You may hear the electric parking brake system motor operating from the rear wheel area when you apply or release the parking brake. This is normal.

The brake pedal may slightly move due to the electric parking brake system operation when you apply or release the parking brake. This is normal.

You cannot apply or release the parking brake if the 12-volt battery goes dead.

🔧 **If the 12-Volt Battery Is Dead** P. 564

**If you pull up and hold the electric parking brake switch while driving, the brakes on all four wheels are applied by the electric servo brake system until the vehicle comes to a stop. The electric parking brake then applies, and the switch should be released.**



### ■ To release

The power mode must be in ON in order to release the electric parking brake.

1. Depress the brake pedal.
2. Press the electric parking brake switch.
  - ▶ The indicator in the switch goes off.
  - ▶ The parking brake indicator (red) goes off.

Manually releasing the parking brake using the switch helps your vehicle start slowly and smoothly when facing downhill on steep hills.

### ⊠ Parking Brake

In the following situations, the parking brake automatically operates.

- When the vehicle stops more than 10 minutes while ACC with Low Speed Follow is activated.
- When the driver's seat belt is unfastened while your vehicle is stopped automatically by ACC with Low Speed Follow.
- When the power system is turned off while ACC with Low Speed Follow is activated.
- When the vehicle stops with the automatic brake hold system activated for more than 10 minutes.
- When the driver's seat belt is unfastened while your vehicle is stopped and the automatic brake hold is applied.
- When the power system is turned off while the automatic brake hold is applied.
- When there is a problem with the automatic brake hold system while brake hold is applied.

*Continued*

### ■ Automatic parking brake feature operation

If the automatic parking brake feature has been activated:

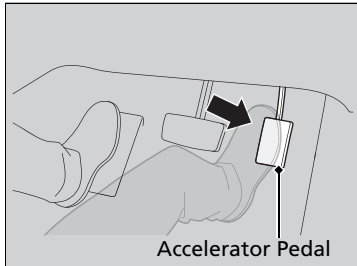
- The parking brake is applied automatically when you set the power mode to VEHICLE OFF.
- To confirm that the parking brake is applied, check if the parking brake indicator (red) is on.

► **Activating and deactivating the automatic parking brake feature** P. 471

### ■ To release automatically

Depressing the accelerator pedal releases the parking brake.

Use the accelerator pedal to release the parking brake when you are starting the vehicle facing uphill, or in a traffic jam.



Gently depress the accelerator pedal.

When on a hill, it may require more accelerator input to release.

- The indicator in the switch goes off.
- The parking brake indicator (red) goes off.

You can release the parking brake automatically when:

- You are wearing the driver's seat belt.
- The power system is on.
- The transmission is not in **P** or **N**.

### ► Parking Brake

If the parking brake cannot be released automatically, release it manually.

When the vehicle is traveling uphill, the accelerator pedal may need to be pressed farther to automatically release the electric parking brake.

The parking brake cannot be released automatically while the following indicators are on:

- Malfunction indicator lamp
- Transmission system indicator

The parking brake may not be released automatically while the following indicators are on:

- Brake system indicator
- VSA® system indicator
- **ABS** indicator
- Supplemental restraint system indicator

### ■ Activating and deactivating the automatic parking brake feature

With the power mode is in ON, carry out the following steps to either activate or deactivate the automatic parking brake feature.

1. Put the transmission into **P**.
2. Without depressing the brake pedal, pull up and release the parking brake switch.
  - ▶ Check that the parking brake indicator (red) has come on.
3. Pull up and hold the parking brake switch. When you hear a beeping sound, release the switch and within 3 seconds pull up and hold the switch again.
4. When you hear a sound indicating that the procedure is completed, release the switch.
  - ▶ Two beeps indicates that the feature has been activated.
  - ▶ One beep indicates that the feature has been deactivated.
  - ▶ When you have completed activating the feature, the parking brake will remain applied after you turn off the engine.
  - ▶ To confirm that the parking brake is applied, check if the parking brake indicator (red) is on.

If you need to temporarily deactivate the feature while putting your vehicle through a conveyor type car wash, you can follow the procedure explained below.

1. Depress the brake pedal and bring the vehicle to a stop.
2. Set the power mode to VEHICLE OFF and then within 2 seconds push down the parking brake switch.
  - ▶ Activation and deactivation settings for the feature will not be affected.
  - ▶ Before temporarily deactivating the feature, make sure to first turn off both ACC with Low Speed Follow and the automatic brake hold system.
  - ▶ To confirm that the parking brake is applied, check if the parking brake indicator (red) is on.

### ▣ Parking Brake

In cold climates, the parking brake may freeze in place if applied.

When parking the vehicle, chock the wheels and make sure the automatic parking brake feature is deactivated.

Also, when putting your vehicle through a conveyor-type car wash or when having your vehicle towed, deactivate the automatic parking brake feature and leave the parking brake released.

## ■ Foot Brake

Your vehicle is equipped with disc brakes at all four wheels. The brake assist system increases the stopping force when you depress the brake pedal hard in an emergency situation. The anti-lock brake system (ABS) helps you retain steering control when braking very hard.

➤ **Brake Assist System** P. 477

➤ **Anti-lock Brake System (ABS)** P. 476

## ☒ Foot Brake

Check the brakes after driving through deep water, or if there is a buildup of road surface water. If necessary, dry the brakes by lightly depressing the pedal several times.

If you hear a continuous metallic friction sound when applying the brakes, this is caused by the brake wear indicator rubbing on the brake rotor and indicates that the brake pads need to be replaced. Have the vehicle checked by a dealer. If you hear only an occasional squeak or squeal when you initially apply the brake pedal, this may be normal and caused by high frequency vibration of the brake pads against the rotating brake disc.

Applying constant pressure to the brakes while going down a long hill can cause the brakes to heat up, resulting in a loss of stopping power. Therefore, when descending a long hill, release the accelerator pedal and allow regenerative braking to slow the vehicle down. To adjust the rate of deceleration, use the deceleration paddle selector.

➤ **POWER/CHARGE Gauge** P. 131


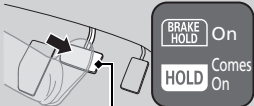
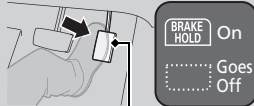
➤ **High Voltage Battery Charge Level Gauge**  
P. 130

➤ **Deceleration Paddle Selector** P. 398

Do not rest your foot on the brake pedal while driving, as it will lightly apply the brakes and cause them to lose effectiveness over time and reduce pad life. It will also confuse drivers behind you.

## Automatic Brake Hold

Keeps the brake applied after releasing the brake pedal until the accelerator pedal is pressed. You can use this system while the vehicle is temporarily stopped, like at traffic lights and in heavy traffic.

<p>■ Turning on the system</p>  <p>Automatic Brake Hold Button</p> <p>Fasten your seat belt properly, then start the power system. Press the automatic brake hold button.</p> <ul style="list-style-type: none"> <li>The automatic brake hold system indicator comes on. The system is turned on.</li> </ul>	<p>■ Activating the system</p>  <p>Brake Pedal</p> <p>Depress the brake pedal to come to a complete stop. The transmission must be in <b>D</b> or <b>N</b>.</p> <ul style="list-style-type: none"> <li>The automatic brake hold indicator comes on. Braking is kept for up to 10 minutes.</li> <li>Release the brake pedal after the automatic brake hold indicator comes on.</li> </ul>	<p>■ Canceling the system</p>  <p>Accelerator Pedal</p> <p>Depress the accelerator pedal while the transmission must be in <b>D</b>. The system is canceled and the vehicle starts to move.</p> <ul style="list-style-type: none"> <li>The automatic brake hold indicator goes off. The system continues to be on.</li> </ul>
---	---	--

### Automatic Brake Hold

#### ⚠ WARNING

Activating the automatic brake hold system on steep hills or slippery roads may still allow the vehicle to move if you remove your foot from the brake pedal.

If a vehicle unexpectedly moves, it may cause a crash resulting in serious injury or death.

Never activate the automatic brake hold system or rely on it to keep a vehicle from moving when stopped on a steep hill or slippery roads.

#### ⚠ WARNING

Using the automatic brake hold system to park the vehicle may result in the vehicle unexpectedly moving.

If a vehicle moves unexpectedly, it may cause a crash, resulting in serious injury or death.

Never leave the vehicle when braking is temporarily kept by automatic brake hold and always park the vehicle by putting the transmission in **P** and applying the parking brake.

Continued

■ **The system automatically cancels when:**

- You engage the parking brake.
- You depress the brake pedal and put the transmission into **P** or **R**.

■ **The system automatically cancels and the parking brake is applied when:**

- Braking is kept for more than 10 minutes.
- The driver's seat belt is unfastened.
- The power system is turned off.
- There is a problem with automatic brake hold system.

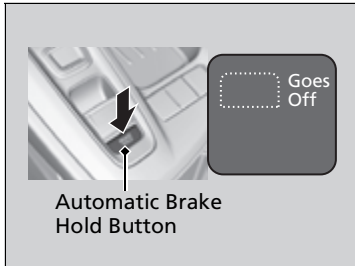
⌘ Automatic Brake Hold

While the system is activated, you can turn off the power system or park the vehicle through the same procedure as you normally do.

⌘ **When Stopped** P. 478

Whether the system is on, or the system is activated, the automatic brake hold turns off once the power system is off.

## ■ Turning off the automatic brake hold system



While the system is on, press the automatic brake hold button again.

- ▶ The automatic brake hold system indicator goes off.

If you want to turn off automatic brake hold while the system is in operation, press the automatic brake hold button with the brake pedal depressed.

## ☒ Turning off the automatic brake hold system

Make sure to turn off the automatic brake hold system before using an automated car wash.

You may hear an operating noise if the vehicle moves while the automatic brake hold system is in operation.