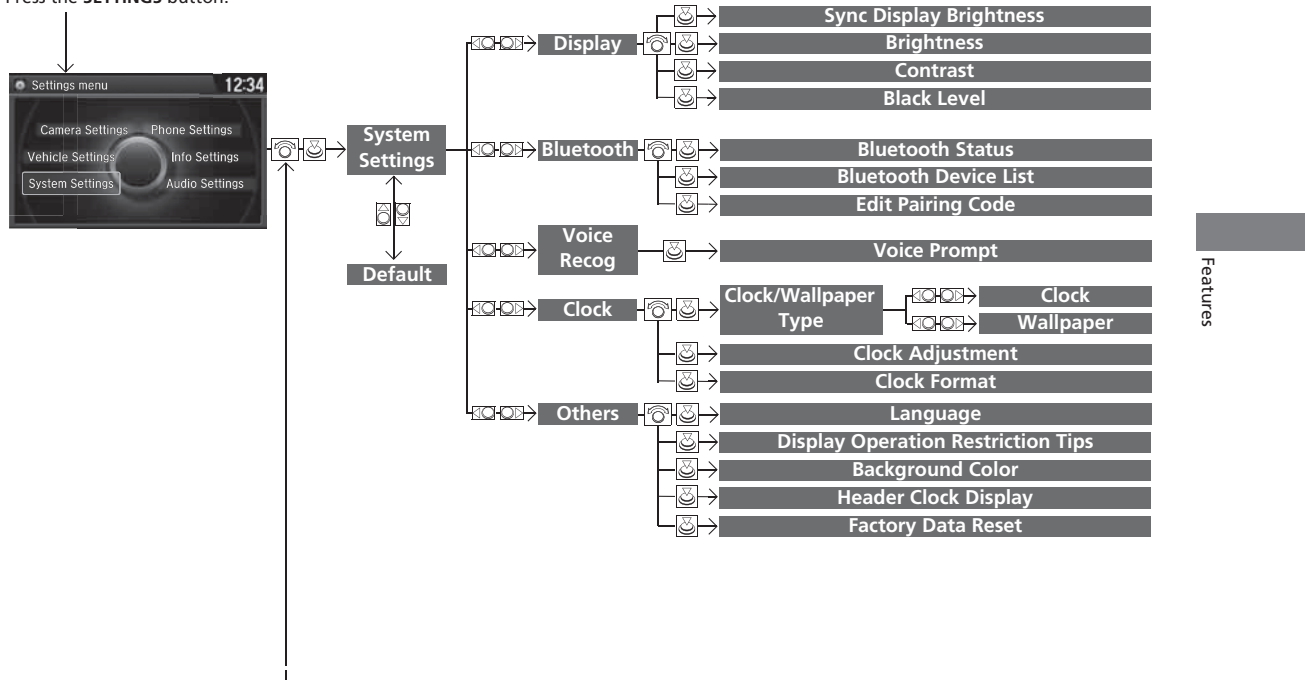
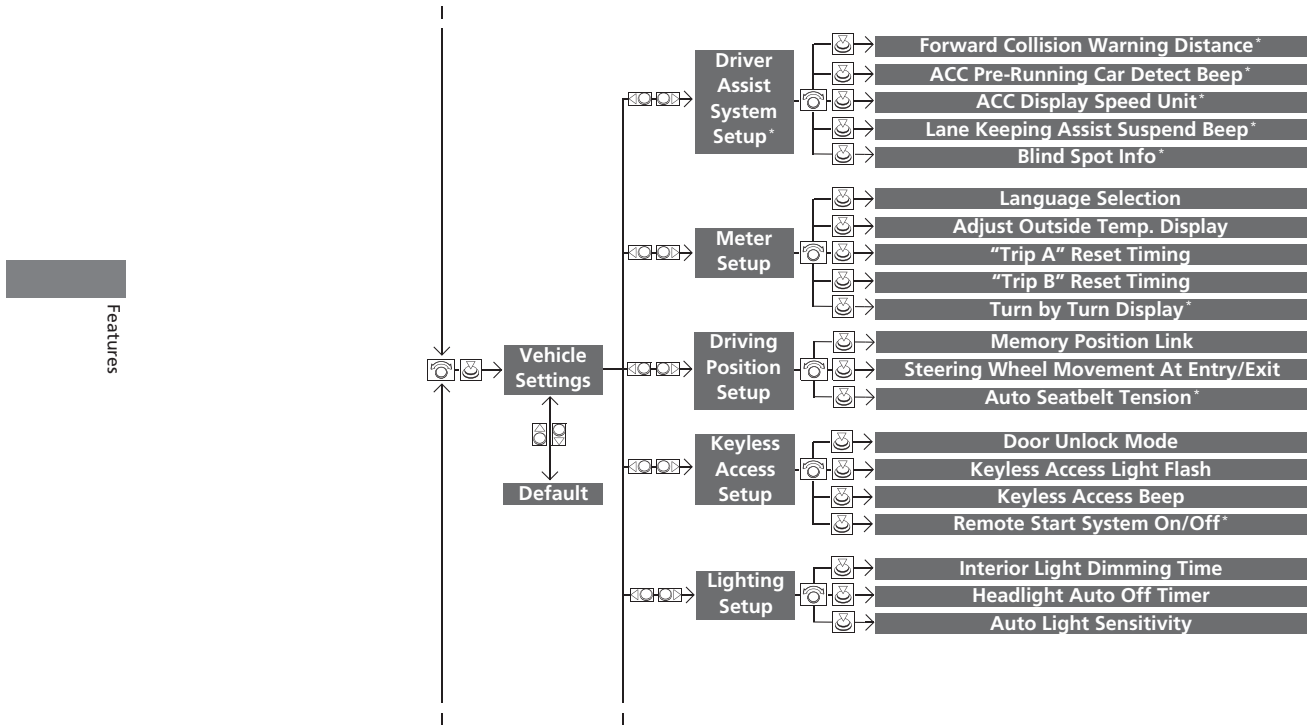
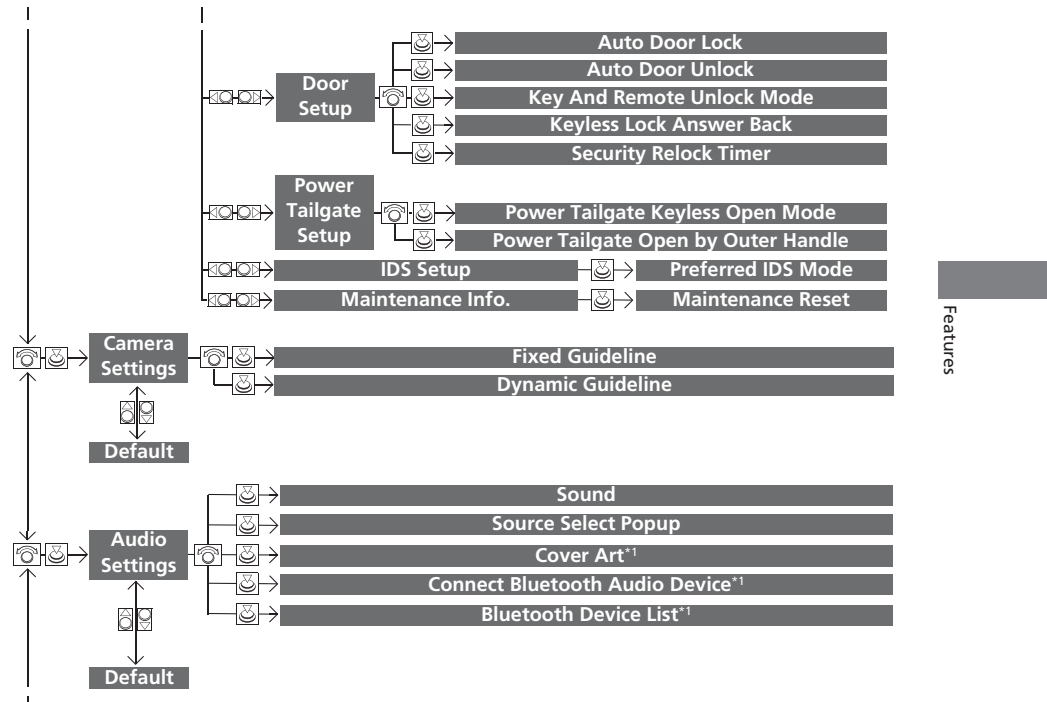


**Customization flow**

Press the **SETTINGS** button.



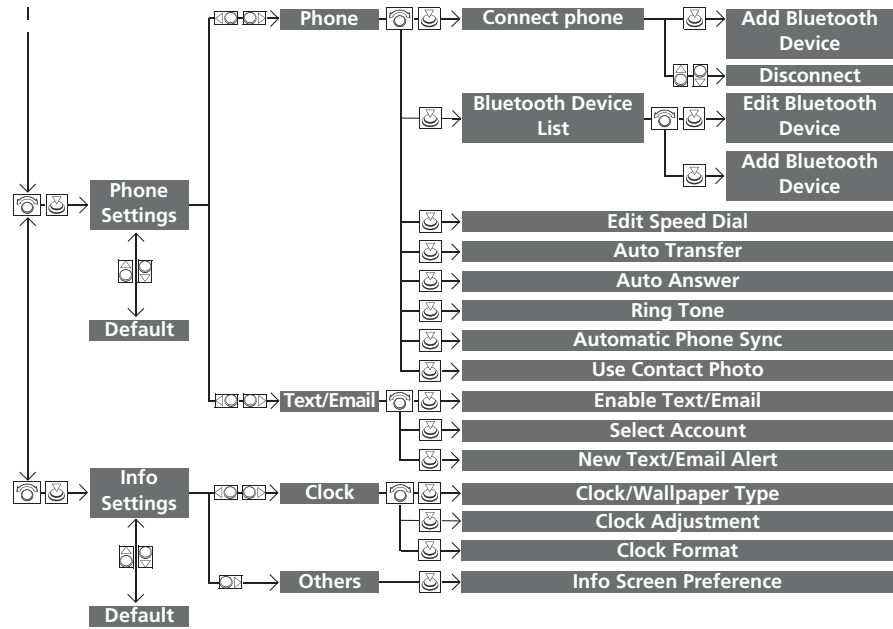




Features

\*1: May change depending on your currently selected source.

Features



■ List of customizable options

Setup Group	Customizable Features	Description	Selectable Settings
System Settings	Display		
	<b>Sync Display Brightness</b>	Selects whether the display brightness synchronizes with the instrument panel brightness.	<b>On<sup>*1</sup>/Off</b>
	<b>Brightness</b>	Changes the brightness of the audio/information screen.	—
	<b>Contrast</b>	Changes the contrast of the audio/information screen.	—
	<b>Black Level</b>	Changes the black level of the audio/information screen.	—

\*1:Default Setting

Features

Setup Group	Customizable Features	Description	Selectable Settings		
System Settings	<b>Bluetooth Status</b>	Turns the <i>Bluetooth</i> ® on and off.	<b>On<sup>*1</sup>/Off</b>		
	<b>Blue-tooth</b>	<b>Bluetooth Device List</b>	Pairs a new phone to HFL, edits and deletes a paired phone, and creates a security PIN. ↳ <b>Phone Setup</b> P. 274	—	
		<b>Edit Pairing Code</b>	Changes a pairing code. ↳ <b>To change the pairing code setting</b> P. 276	<b>Random/Fixed<sup>*1</sup></b>	
	<b>Voice Recog</b>	<b>Voice Prompt</b>	Turns the voice prompt on and off.	<b>Beginner<sup>*1</sup>/Expert</b>	
	<b>Clock</b>	<b>Clock</b>	Changes the clock display type.	<b>Analog/Digital<sup>*1</sup>/Small Digital/Off</b>	
		<b>Clock/Wallpaper Type</b>	<b>Wallpaper</b>	<ul style="list-style-type: none"> <li>• Changes the wallpaper type.</li> <li>• Imports an image file for a new wallpaper.</li> <li>• Deletes an imported wallpaper (default wallpapers can be deleted). ↳ <b>Wallpaper Setup</b> P. 213</li> </ul>	<b>Blank/Galaxy<sup>*1</sup>/Metallic</b>
		<b>Clock Adjustment</b>	Adjust Clock. ↳ <b>Clock</b> P. 114	—	
		<b>Clock Format</b>	Selects the digital clock display from 12H to 24H.	<b>12H<sup>*1</sup>/24H</b>	

\*1:Default Setting

Setup Group	Customizable Features	Description	Selectable Settings
System Settings	Language	Changes the display language.	English <sup>*1</sup> /Français/ Español
	Display Operation Restriction Tips	Alerts you when manual control of the system is disabled to prevent distraction while driving.	On <sup>*1</sup> /Off
	Others		
	Background Color	Changes the background color of the audio/information screen and the On Demand Multi-Use Display™.	Blue <sup>*1</sup> /Amber/Red/ Green
	Header Clock Display	Selects whether the clock display comes on.	On <sup>*1</sup> /Off
	Factory Data Reset	Resets all the settings to their factory default. 2 <b>Defaulting All the Settings</b> P. 265	—
Default		Cancels /Resets all customized items in the <b>System Settings</b> group as default.	Default/OK

\*1:Default Setting

Features

Setup Group	Customizable Features	Description	Selectable Settings	
Vehicle Settings	Driver Assist System Setup*	<b>Forward Collision Warning Distance*</b>	Changes at which distance FCW* or CMBS™* alerts, or turns FCW* on and off.	<b>Long/Normal*<sup>1</sup>/ Short/Off</b>
		<b>ACC Forward Vehicle Detect Beep*</b>	Causes the system to beep when the system detects a vehicle, or when the vehicle goes out of the ACC with LSF range.	<b>On/Off*<sup>1</sup></b>
		<b>ACC Display Speed Unit*</b>	Changes the speed unit for ACC with LSF on the multi-information display (MID).	<b>mph*<sup>1</sup>/km/h (U.S.) mph/km/h*<sup>1</sup> (Canada)</b>
		<b>Lane Keeping Assist Suspend Beep*</b>	Cause the system to beep when the LKAS is suspended.	<b>On/Off*<sup>1</sup></b>
		<b>Blind Spot Info*</b>	Changes the setting for the blind spot information.	<b>Audible And Visual Alert*<sup>1</sup>/Visual Alert/ Off</b>

\*1:Default Setting



Setup Group	Customizable Features	Description	Selectable Settings
Vehicle Settings	<b>Language Selection</b>	Changes the displayed language on the multi-information display.	<b>English<sup>*1</sup>/Français/Español</b>
	<b>Adjust Outside Temp. Display</b>	Adjust the temperature reading by a few degrees.	<b>-5°F ~ ±0°F<sup>*1</sup> ~ +5°F (U.S.) -3°C ~ ±0°C<sup>*1</sup> ~ +3°C (Canada)</b>
	<b>Meter Setup</b>		
	<b>"Trip A" Reset Timing</b>	Changes the setting of how to reset trip meter A, average fuel economy A, average speed A, and elapsed time A.	<b>With Refuel/IGN Off/Manually Reset<sup>*1</sup></b>
	<b>"Trip B" Reset Timing</b>	Changes the setting of how to reset trip meter B, average fuel economy B, average speed B, and elapsed time B.	<b>With Refuel/IGN Off/Manually Reset<sup>*1</sup></b>
	<b>Turn by Turn Display*</b>	Selects whether the turn-by-turn display comes on during the route guidance.	<b>On<sup>*1</sup>/Off</b>
	<b>Door Unlock Mode</b>	Changes which doors unlock when you grab the driver's door handle.	<b>Driver Door Only<sup>*1</sup>/All Doors</b>
	<b>Keyless Access Setup</b>		
	<b>Keyless Access Light Flash</b>	Causes some exterior lights to flash when you unlock/lock the doors.	<b>On<sup>*1</sup>/Off</b>
	<b>Keyless Access Beep</b>	Causes the beeper to sound when you unlock/lock the doors.	<b>On<sup>*1</sup>/Off</b>
	<b>Remote Start System On/Off*</b>	Turns the remote engine start feature on and off.	<b>Enabled<sup>*1</sup>/Disabled</b>

Features

\*1:Default Setting

\* Not available on all models

Setup Group	Customizable Features	Description	Selectable Settings
Vehicle Settings	<b>Interior Light Dimming Time</b>	Changes the length of time the interior lights stay on after you close the doors.	<b>60seconds/ 30seconds*<sup>1</sup>/ 15seconds</b>
	<b>Lighting Setup</b>		
	<b>Headlight Auto Off Timer</b>	Changes the length of time the exterior lights stay on after you close the driver's door.	<b>60seconds/ 30seconds/ 15seconds*<sup>1</sup>/ 0seconds</b>
	<b>Auto Light Sensitivity</b>	Changes the timing for the headlights to come on.	<b>Max/High/Mid*<sup>1</sup>/ Low/Min</b>
	<b>Driving Position Setup</b>		
	<b>Memory Position Link</b>	Turns the driving position memory system using a remote transmitter on and off.	<b>On*<sup>1</sup>/Off</b>
	<b>Steering Wheel Movement At Entry/Exit</b>	Moves the steering wheel fully up when you get in/get out of the vehicle.	<b>On*<sup>1</sup>/Off</b>
	<b>Auto Seatbelt Tension*</b>	Turns the setting for the automatic seat belt e-pretensioner activation on and off.	<b>On*<sup>1</sup>/Off</b>

\*1:Default Setting

Setup Group	Customizable Features	Description	Selectable Settings	
Vehicle Settings	Door Setup	<b>Auto Door Lock</b>	Changes the setting for the automatic locking feature.	<b>With Vehicle Speed<sup>*1</sup>/Shift from P/Off</b>
		<b>Auto Door Unlock</b>	Changes the setting for when the doors unlock automatically.	<b>All Doors When Driver's Door Opens<sup>*1</sup>/All Doors When Shifted to Park/All Doors When Ignition Switched Off/Off</b>
		<b>Key And Remote Unlock Mode</b>	Sets up either the driver's door or all doors to unlock on the first push of the remote or built-in key.	<b>Driver Door<sup>*1</sup>/All Doors</b>
		<b>Keyless Lock Answer Back</b>	LOCK/UNLOCK- The exterior lights flash. LOCK (2nd push)- The beeper sounds.	<b>On<sup>*1</sup>/Off</b>
		<b>Security Relock Timer</b>	Changes the time it takes for the doors to relock and the security system to set after you unlock the vehicle without opening any door.	<b>90seconds/ 60seconds/ 30seconds<sup>*1</sup></b>

\*1:Default Setting

Features

Features

Setup Group	Customizable Features	Description	Selectable Settings	
Vehicle Settings	Power Tailgate Setup	<b>Power Tailgate Keyless Open Mode</b>	Changes the keyless setting for when the power tailgate opens.	<b>Anytime<sup>*1</sup>/When Unlocked</b>
		<b>Power Tailgate Open by Outer Handle</b>	Selects whether to enable the power tailgate open operation using the tailgate outer handle.	<b>Off (Manual Only)/On (Power/Manual)<sup>*1</sup></b>
	IDS Setup	<b>Preferred IDS Mode</b>	Changes the IDS mode setting for when you set the power mode to ON.	<b>Last Used<sup>*1</sup>/Comfort/Normal/Sport</b>
	Maintenance Info.	<b>Maintenance Reset</b>	Resets the engine oil life display when you have performed the maintenance service.	—
	<b>Default</b>	Cancels/Resets all customized items in the <b>Vehicle Settings</b> group as default.	<b>Default/OK</b>	
Camera Settings	Guidelines	<b>Fixed Guideline</b>	Selects whether the fixed guidelines come on the rear camera monitor.	<b>On<sup>*1</sup>/Off</b>
		<b>Dynamic Guideline</b>	Selects whether the dynamic guidelines come on the rear camera monitor.	<b>On<sup>*1</sup>/Off</b>
	<b>Default</b>	Cancels/Resets all customized items in the <b>Camera Settings</b> group as default.	<b>Default/OK</b>	

\*1:Default Setting

Setup Group	Customizable Features	Description	Selectable Settings
Audio Settings	Sound	Adjusts the settings of the audio speaker's sound. 2 <b>Adjusting the Sound</b> P. 215	-6 ~ C <sup>1</sup> ~ +6 (Bass, Treble and Subwoofer), -9 ~ C <sup>1</sup> ~ +9 (Fader, Balance), Off/Low/Mid <sup>1</sup> /High (SVC)
	Source Select Popup	Selects whether the list of selectable audio sources comes on when the <b>AUDIO</b> button is pressed.	On/Off <sup>*1</sup>
	CD (MP3/WMA/AAC), iPod®, USB, Pandora®* or Aha™ mode Cover Art	Turns on and off the cover art display.	On <sup>*1</sup> /Off
	Bluetooth® Audio, Pandora®* or Aha™ mode Connect Bluetooth Audio Device	Connects, disconnects or pairs a <i>Bluetooth</i> ® Audio device to HFL.	—
	Bluetooth® Audio, Pandora®* or Aha™ mode Bluetooth Device List	Edits or deletes a <i>Bluetooth</i> ® Audio device paired to HFL.	—
	Default	Cancels/Resets all customized items in the <b>Audio Settings</b> group as default.	Default/OK

Features

\*1:Default Setting

\* Not available on all models

Continued 261

Setup Group	Customizable Features	Description	Selectable Settings
Phone Settings	Phone	<b>Connect phone</b> Pairs a new phone to HFL, or connects or disconnects a paired phone. 2 <b>Phone Setup</b> P. 274	—
		<b>Bluetooth Device List</b> Pairs a new phone to HFL, edits or deletes a paired phone, or creates a security PIN. 2 <b>Phone Setup</b> P. 274	—
		<b>Edit Speed Dial</b> Edits, adds or deletes a speed dial entry. 2 <b>Phone Setup</b> P. 274	—

\*1: Default Setting

Setup Group	Customizable Features	Description	Selectable Settings	
Phone Settings	<b>Auto Transfer</b>	Sets calls to automatically transfer from your phone to HFL when you enter the vehicle.	<b>On<sup>*1</sup>/Off</b>	
	<b>Auto Answer</b>	Sets whether to automatically answer an incoming call after about four seconds.	<b>On/Off<sup>*1</sup></b>	
	<b>Phone</b>	<b>Ring Tone</b>	Selects the ring tone.	<b>Fixed/Mobile Phone<sup>*1</sup>/Off</b>
	<b>Automatic Phone Sync</b>	Sets a phonebook data to be automatically imported when a phone is paired to HFL.	<b>On/Off</b>	
	<b>Use Contact Photo</b>	Displays a caller's picture on an incoming call screen.	<b>On<sup>*1</sup>/Off</b>	
	<b>Text/Email</b>	<b>Enable Text/Email</b>	Turns the text message/E-mail function on and off.	<b>On<sup>*1</sup>/Off</b>
	<b>Select Account</b>	Selects a mail or text message account.	—	
	<b>New Text/Email Alert</b>	Selects whether a pop-up alert comes on the screen when HFL receives a new text message/E-mail.	<b>On/Off</b>	
	<b>Default</b>	Cancels/Resets all customized items in the <b>Phone Settings</b> group as default.	<b>Default/OK</b>	

Features

\*1:Default Setting

Setup Group	Customizable Features	Description	Selectable Settings						
Clock	<table border="1"> <tr> <td>Clock/ Wallpaper Type</td> <td>Clock Wallpaper</td> </tr> <tr> <td>Clock Adjustment</td> <td></td> </tr> <tr> <td>Clock Format</td> <td></td> </tr> </table>	Clock/ Wallpaper Type	Clock Wallpaper	Clock Adjustment		Clock Format		See <b>System Settings</b> on P. 253 to P. 255.	
	Clock/ Wallpaper Type	Clock Wallpaper							
Clock Adjustment									
Clock Format									
Other	Info Screen Preference	<p>Selects either of the following to be displayed when you press the <b>INFO</b> button.</p> <ul style="list-style-type: none"> <li>• <b>Info Top:</b> Some of the available menu items pop up.</li> <li>• <b>Info Menu:</b> All available menu items pop up.</li> <li>• <b>Off:</b> The menu item you selected last time is displayed.</li> </ul>	Info Top/Info Menu*1/Off						
Default		<p> Cancels/Resets all customized items in the <b>Info Settings</b> group as default.</p>	Default/OK						

\*1:Default Setting



## Defaulting All the Settings

You can reset all the menu and customized settings as the factory defaults.



1. Press the **SETTINGS** button.
2. Rotate to select **System Settings**, then press .
3. Rotate to select **Factory Data Reset**, then press .
  - ↳ The pop-up menu appears on the screen.
4. Rotate to select **Yes**, then press .
  - ↳ The confirmation message will appear.
5. Rotate to select **Yes**, then press again to reset the settings.
  - ↳ The confirmation message will appear. Press to select **OK**.

### 1 Defaulting All the Settings

When you transfer the vehicle to a third party, reset all settings to default and delete all personal data.

## HomeLink® Universal Transceiver

The HomeLink® Universal Transceiver can be programmed to operate up to three remote controlled devices around your home, such as garage doors, lighting, or home security systems.

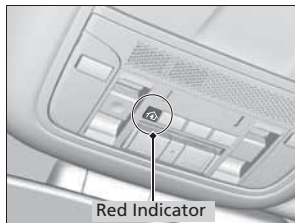
### Important Safety Precautions

Refer to the safety information that comes with your garage door opener to test that the safety features are functioning properly. If you do not have the safety information, contact the manufacturer.

Before programming HomeLink, make sure that people and objects are out of the way of the garage or gate to prevent potential injury or damage.

When programming a garage door opener, park just outside the garage door's path.

### Training HomeLink



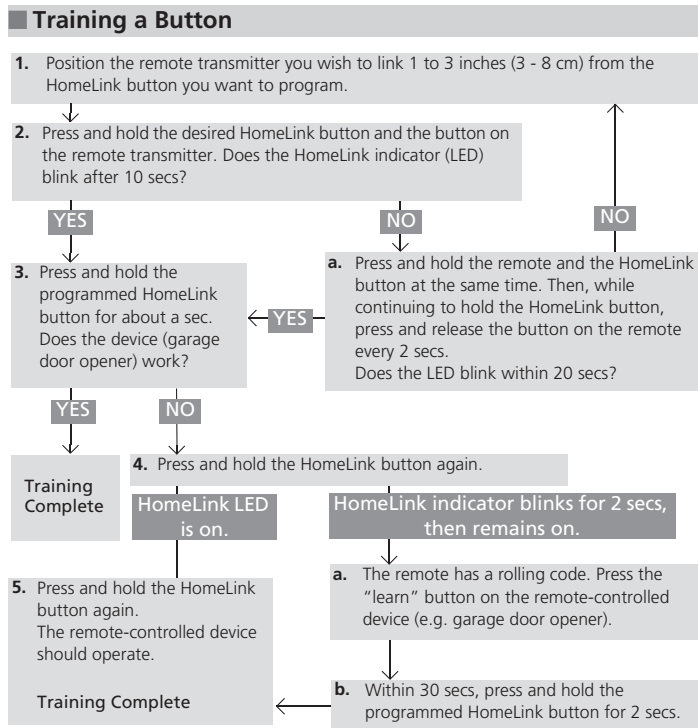
If you have not trained any of the buttons in HomeLink before, you should erase any previously learned codes. To do this:

- Press and hold the two outside buttons for about 20 seconds, until the red indicator blinks. Release the buttons, and proceed to step 1.
- If you are training the second or third button, go directly to step 1.

#### 1 HomeLink® Universal Transceiver

HomeLink® is a registered trademark of Johnson Controls, Inc.

Before programming HomeLink to operate a garage door opener, confirm that the opener has an external entrapment protection system, such as an "electronic eye," or other safety and reverse stop features. If it does not, HomeLink may not be able to operate it.



### 1 Training HomeLink

#### Retraining a Button

If you want to retrain a programmed button for a new device, you do not have to erase all button memory. You can replace the existing memory code using this procedure:

- Press and hold the desired HomeLink button until the HomeLink indicator begins to blink.
  - Standard transmitter**  
Indicator remains on for about 25 secs.
  - Rolling code transmitter**  
Indicator blinks rapidly for 2 secs, then remains on for about 23 secs.
- Continue to hold the HomeLink button and follow steps 1 - 3 under "Training a Button."

#### Erasing Codes

To erase all the codes, press and hold the two outside buttons until the HomeLink indicator begins to blink (about 10 to 20 secs). You should erase all codes before selling the vehicle.

If you have any problems, see the device's instructions, visit [www.homelink.com](http://www.homelink.com), or call HomeLink at (800) 355-3515.

Features

## Bluetooth® HandsFreeLink®

### Models with navigation system

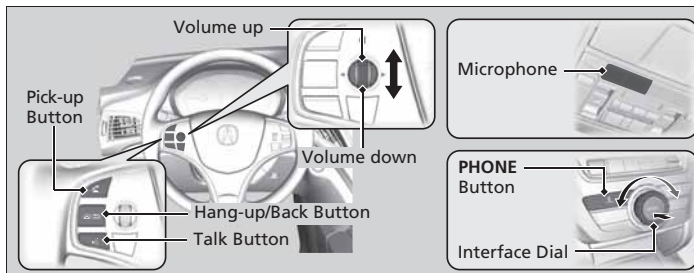
See Navigation System Manual for how to operate *Bluetooth*® HandsFreeLink®.

### Models without navigation system


*Bluetooth*® HandsFreeLink® (HFL) allows you to place and receive phone calls using your vehicle's audio system, without handling your cell phone.


## Using HFL

### HFL Buttons








 **(Pick-up) button:** Press to go to the **Speed Dial/Call History** on the multi-information display or to answer an incoming call.

 **(Hang-up/back) button:** Press to end a call, to cancel a command or to clear the phone information on the MID.

 **(Talk) button:** Press to give HFL voice commands.

**PHONE button:** Press to go directly to the Phone screen.

**Interface dial:** Rotate  to select an item on the screen, then press . Move ,  or  to select secondary menu.


### 1 *Bluetooth*® HandsFreeLink®

To use HFL, you need a *Bluetooth*-compatible cell phone. For a list of compatible phones, pairing procedures, and special feature capabilities:

- U.S.: Visit [www.acura.com/handsfreelink](http://www.acura.com/handsfreelink), or call 1-888-528-7876.
- Canada: Visit [www.handsfreelink.ca](http://www.handsfreelink.ca), or call 1-888-528-7876.

To use HFL, the **Bluetooth** setting must be **On**.  
2 **Customized Features** P. 248

#### Voice control tips:

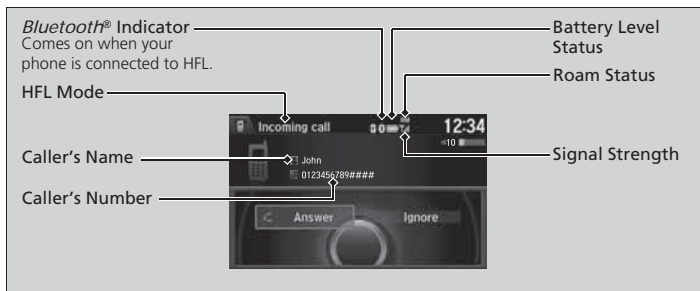
- Aim the vents away from the ceiling and close the windows, as noise coming from them may interfere with the microphone.
- Press and release the  button when you want to call a number using a stored voice tag, a phonebook name, or a number. Speak clearly and naturally after a beep.
- If the microphone picks up voices other than yours, the command may be misinterpreted.
- To change the volume level, use the audio system's volume knob or the remote audio controls on the steering wheel.

State or local laws may prohibit the operation of handheld electronic devices while operating a vehicle.

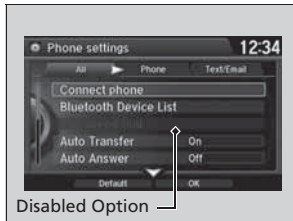
If you receive a call while using the audio system, the system resumes its operation after ending the call.

### HFL Status Display

The audio/information screen notifies you when there is an incoming call.



### Limitations for Manual Operation



Certain manual functions are disabled or inoperable while the vehicle is in motion. You cannot select a grayed-out option until the vehicle is stopped.

Only previously stored speed dial entries with voice tags, phonebook names, or numbers can be called using voice commands while the vehicle is in motion.

2 **Speed Dial** P. 285

### 1 Bluetooth® HandsFreeLink®

#### Bluetooth® Wireless Technology

The *Bluetooth®* word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Honda Motors Co., Ltd., is under license. Other trademarks and trade names are those of their respective owners.

#### HFL Limitations

An incoming call on HFL will interrupt the audio system when it is playing. It will resume when the call is ended.

### 1 HFL Status Display

The information that appears on the audio/information screen varies between phone models.

You can change the system language to English, French, or Spanish.

2 **Customized Features** P. 248

Features

## HFL Menus

The power mode must be in ACCESSORY or ON to use HFL.

### Phone Settings screen



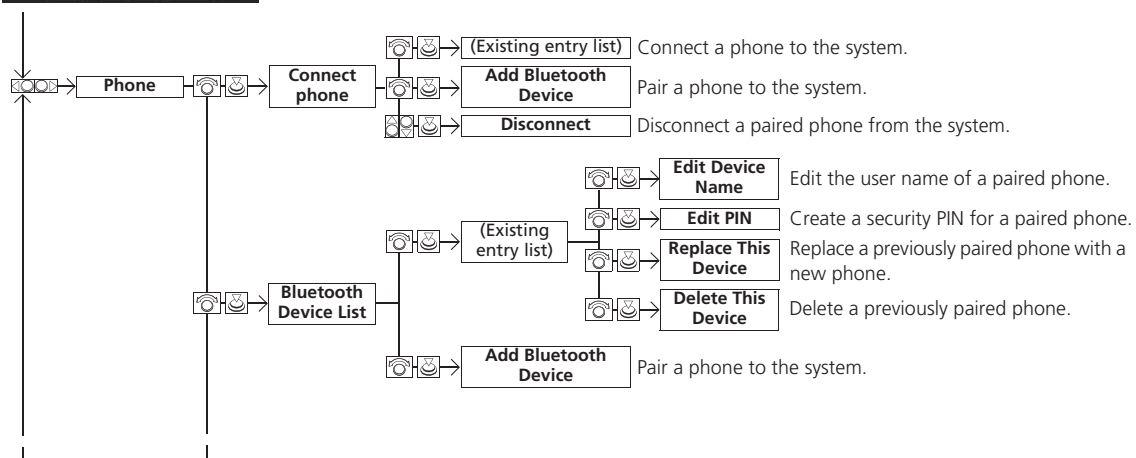
1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .

#### 1 HFL Menus

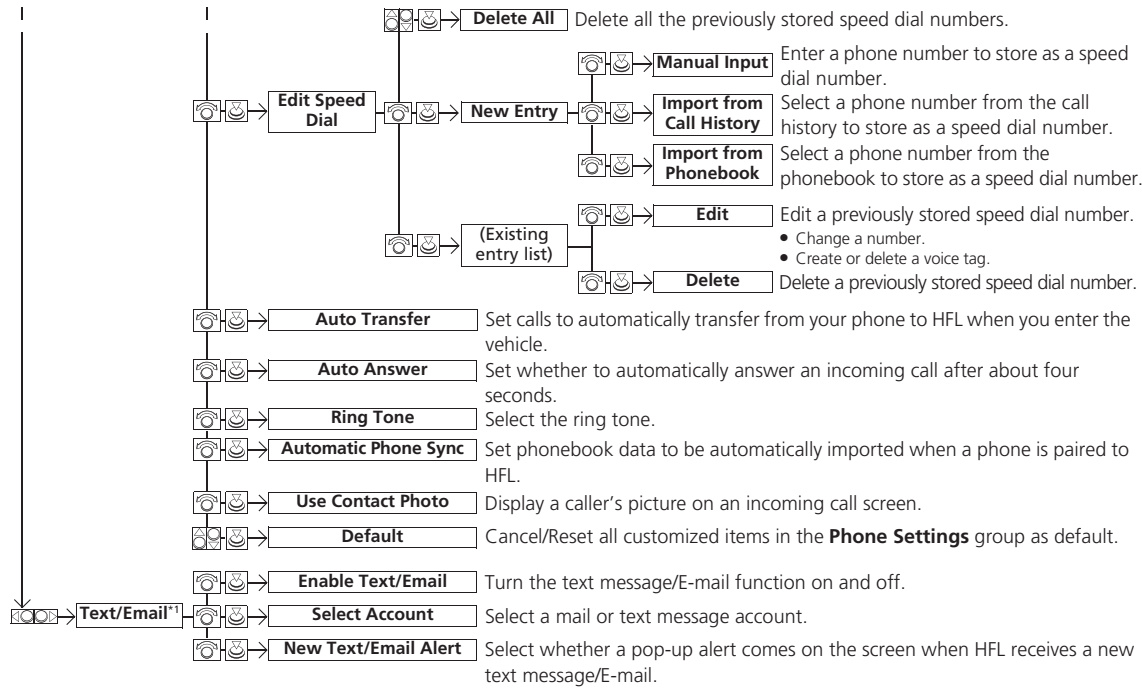
To use HFL, you must first pair your *Bluetooth*-compatible cell phone to the system while the vehicle is parked.

Some functions are limited while driving. A message appears on the screen when the vehicle is moving and the operation is canceled.

Features



\*1: Appears only when a phone is connected to HFL.



Features

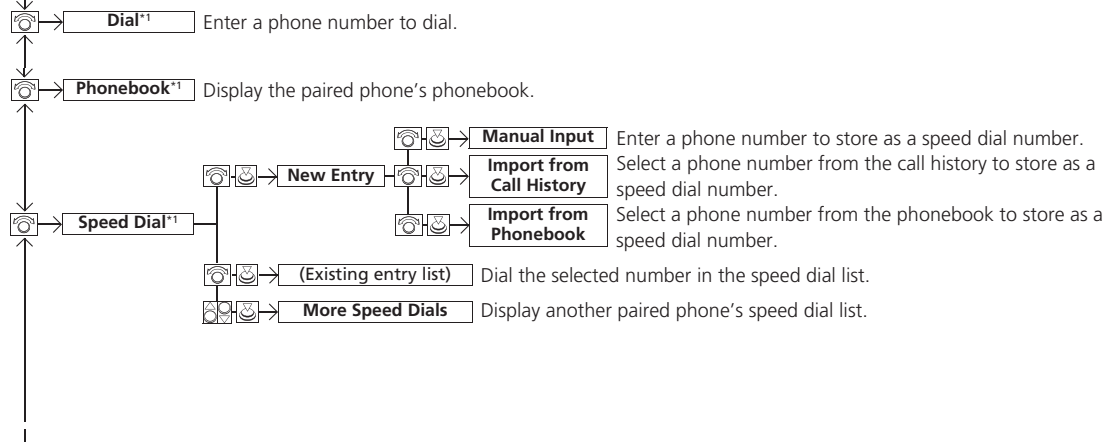
\*1: Appears only when a phone is connected to HFL.

■ Phone screen



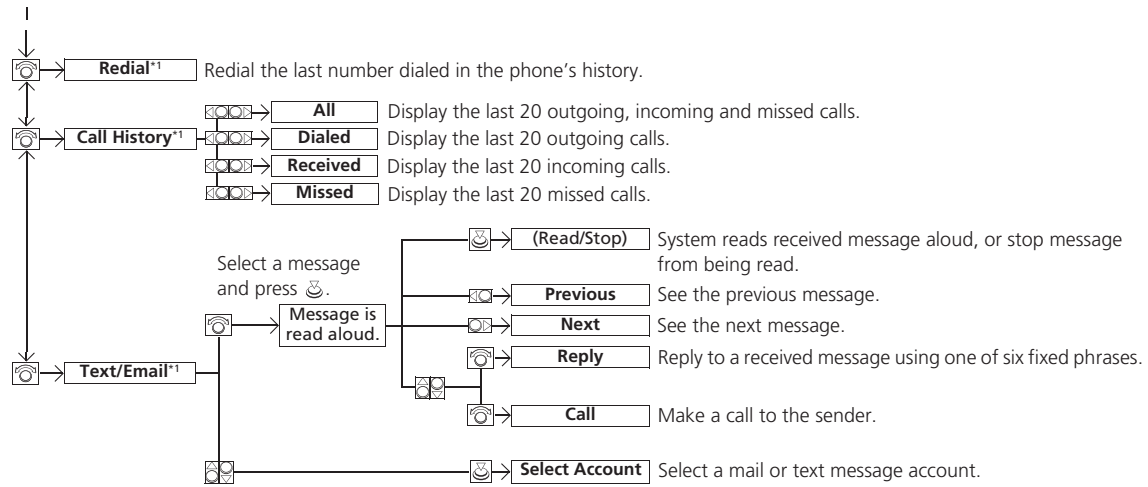
1. Press the **PHONE** button.
2. Press the **MENU** button to display the menu items.

Features



\*1: Appears only when a phone is connected to HFL.

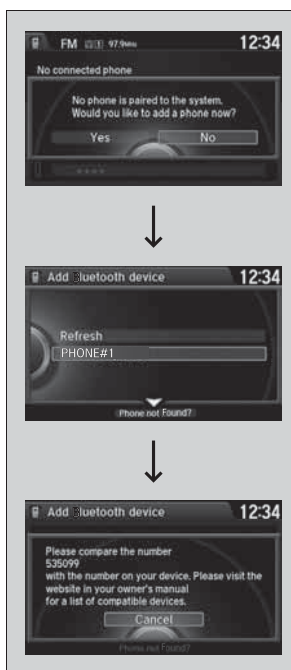




Features

\*1: Appears only when a phone is connected to HFL.

## Phone Setup



### ■ To pair a cell phone (when there is no phone paired to the system)

1. Press the **PHONE** button.
2. Rotate to select **Yes**, then press .
3. Make sure your phone is search or discoverable mode, then press .
  - ↳ HFL automatically searches for a *Bluetooth* device.
4. When your phone appears on the list, select it by pressing .
  - ↳ If your phone does not appear, you can select **Refresh** to search again.
  - ↳ If your phone still does not appear, move to select **Phone not Found?** and search for *Bluetooth* devices using your phone. From your phone, select **HandsFreeLink**.
5. HFL gives you a pairing code on the audio/information screen.
  - ↳ Confirm if the pairing code on the screen and your phone match. This may vary by phone.
6. You will receive a notification on the screen if pairing is successful.

## 1 Phone Setup

Your *Bluetooth*-compatible phone must be paired to HFL before you can make and receive hands-free calls.

### Phone Pairing Tips:

- You cannot pair your phone while the vehicle is moving.
- Up to six phones can be paired.
- Your phone's battery may drain faster when it is connected to HFL.
- If your phone is not ready for pairing or not found by the system within three minutes, the system will time out and returns to idle.

Once you have paired a phone, you can see it displayed on the screen with one or two icons on the right side.

These icons indicate the following:

- : The phone can be used with HFL.
- : The phone is compatible with *Bluetooth*® Audio.

When pairing is completed, an **Automatic Phone Sync** prompt appears. Select **On** if you want your call history and phonebook automatically imported to HFL.

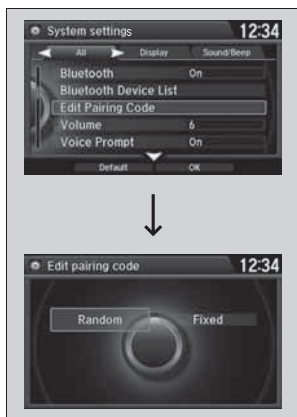
- 2 **Changing the Automatic Phone Sync setting** P. 284



■ **To pair a cell phone (when a phone has already been paired to the system)**

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Connect phone**, then **Add Bluetooth Device**.
3. Make sure your phone is in search or discoverable mode, then press .
- ↳ HFL automatically searches for a *Bluetooth* device.
4. When your phone appears on the list, select it by pressing .
- ↳ If your phone does not appear, you can select **Refresh** to search again.
  - ↳ If your phone still does not appear, move to select **Phone not Found?** and search for *Bluetooth* devices using your phone. From your phone, select **HandsFreeLink**.
5. HFL gives you a pairing code on the audio/information screen.
  - ↳ Confirm if the pairing code on the screen and your phone match. This may vary by phone.
6. You will receive a notification on the screen if pairing is successful.

Features



■ To change the pairing code setting

1. Press the **SETTINGS** button.
2. Rotate to select **System Settings**, then press .
3. Rotate to select **Fixed** or **Random**, then press .

1 To change the pairing code setting

The pairing code may be six or four digits depending on your phone.

The default pairing code is **0000** until you change the setting.

To create your own, select **Fixed**, and delete the current code, then enter a new one.

For a randomly generated pairing code each time you pair a phone, select **Random**.



■ **To replace an already-paired phone with a new phone**

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Bluetooth Device List**.
3. Rotate to select a paired phone you want to replace, then press .
4. Rotate to select **Replace This Device**, then press .
5. HFL enters the pairing process and searches a new phone.
  - ↳ Follow the prompts to pair a new phone.
6. You will receive a notification on the screen if pairing is successful.

1 To replace an already-paired phone with a new phone

The replaced phone will keep the same speed dial entries, and security PIN information from the previously paired phone.

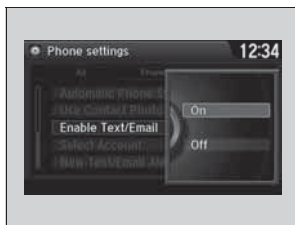
Continued



■ To delete a paired phone

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
3. Repeat the procedure to select **Bluetooth Device List**.
4. Rotate to select a phone you want to delete, then press .
5. Rotate to select **Delete This Device**, then press .
6. You will receive a confirmation message on the screen. Rotate to select **Yes**, then press .
7. You will receive a notification on the screen if it is successful.

### To Set Up a Text Message/E-mail Options

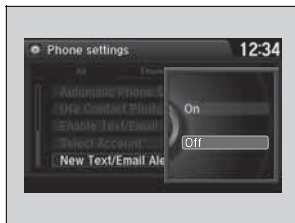


#### To turn on or off the text/E-mail function

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .

  - ↳ Repeat the procedure to select **Enable Text/Email**.
  - ↳ A pop-up menu appears on the screen.

3. Rotate to select **On** or **Off**, then press .



#### To turn on or off the text/E-mail notice

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .

  - ↳ Repeat the procedure to select **New Text/Email Alert**.
  - ↳ A pop-up menu appears on the screen.

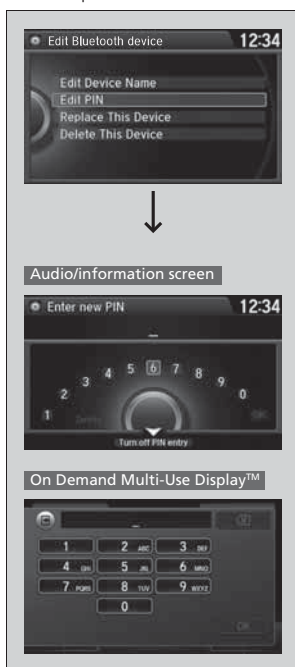
3. Rotate to select **On** or **Off**, then press .

#### 1 To turn on or off the text/E-mail notice

- On:** A pop-up notification comes on every time you receive a new text message.
- Off:** The message you receive is stored in the system without notification.

### To Create a Security PIN

You can protect each of the six cell phones with a security PIN.



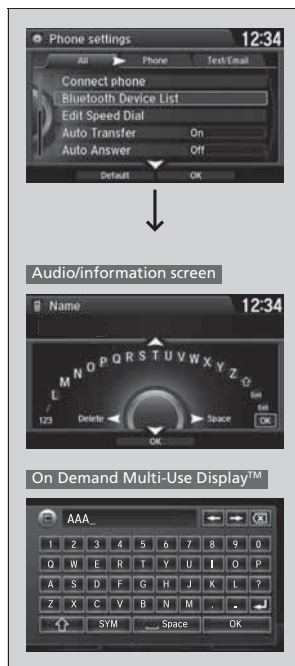
1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
  - ↳ Repeat the procedure to select **Bluetooth Device List**.
3. Rotate to select a phone you want to add a security PIN to, then press .
4. Rotate to select **Edit PIN**, then press .
5. Enter a new four-digit number.
  - ↳ **Audio/information screen**  
Rotate to select, then press . Move to delete. Rotate to select **OK** to enter the security PIN.
  - ↳ **On Demand Multi-Use Display™**  
You can also enter a number using the icons.
6. Re-enter the four-digit number.
  - ↳ The screen returns to the screen in step 4.

### 1 To Create a Security PIN

If the phone is already security PIN protected, you need to enter the current security PIN before clearing the PIN or creating a new one.



### Editing User Name



Edit the user name of a paired phone as follows:

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
  - ↳ Repeat the procedure to select **Bluetooth Device List**.
3. Rotate to select a phone you want to edit, then press .
4. Rotate to select **Edit Device Name**, then press .
5. Enter a new name of the phone.
  - ↳ **Audio/information screen**  
 Rotate to select, then press . Move to delete. Rotate or move to select **OK** then press to enter the name.
  - ↳ **On Demand Multi-Use Display™**  
 You can also enter a name using the icons.

Features

### Automatic Transferring

If you get into the vehicle while you are on the phone, the call can be automatically transferred to HFL.



1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Auto Transfer**.
3. Rotate to select **On**, then press .

### Auto Answer

You can set HFL to automatically answer an incoming call in four seconds.



1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Auto Answer**.
3. Rotate to select **On**, then press .

### Ring Tone

You can change the ring tone setting.



1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Ring Tone**.
3. Rotate to select **Fixed, Mobile Phone** or **Off**, then press .

### Use Contact Photo

You can display a caller's picture on an incoming call screen.



1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Use Contact Photo**.
3. Rotate to select **On** or **Off**, then press .

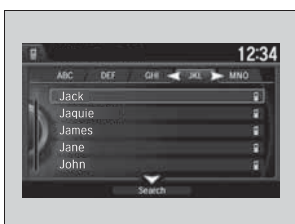
#### 1 Ring Tone

- Fixed:** The fixed ring tone sounds from the speaker.
- Mobile Phone:** The ring tone stored in the connected cell phone sounds from the speaker.
- Off:** No ring tones sound from the speaker.

#### 1 Use Contact Photo

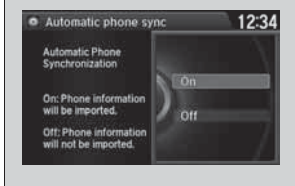
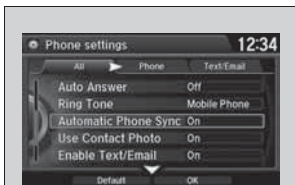
This function may not be available on some phones.

### Automatic Import of Cellular Phonebook and Call History



#### ■ When Automatic Phone Sync is set to On:

When your phone is paired, the contents of its phonebook and call history are automatically imported to HFL.

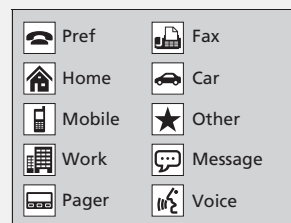


#### ■ Changing the Automatic Phone Sync setting

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
3. Repeat the procedure to select **Automatic Phone Sync**.
3. Rotate to select **On** or **Off**, then press .

#### 1 Automatic Import of Cellular Phonebook and Call History

When you select a person from the list in the cellular phonebook, you can see up to three category icons. The icons indicate what types of numbers are stored for that name.

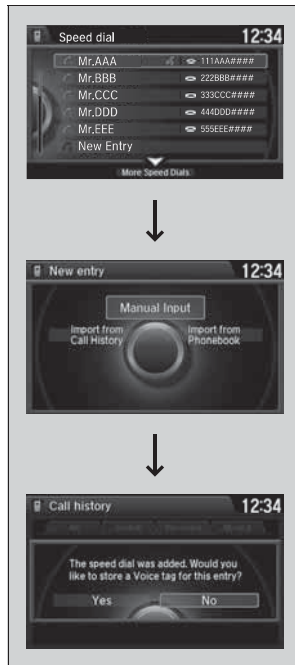


On some phones, it may not be possible to import the category icons to HFL.

The phonebook is updated after every connection. Call history is updated after every connection or call.

## Speed Dial

Up to 20 speed dial numbers can be stored per phone.



To store a speed dial number:

1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Speed Dial**, then press .

  - ↳ Repeat the procedure to select **New Entry**.

4. Rotate to select a place to choose a number from, then press .
  - From **Import from Call History**:
    - ↳ Select a number from the call history.
  - From **Manual Input**:
    - ↳ Input the number manually.
  - From **Import from Phonebook**:
    - ↳ Select a number from the linked cell phone's imported phonebook.
5. When the speed dial is successfully stored from **Import from Call History** or **Import from Phonebook**, you are asked to create a voice tag for the number. Rotate to select **Yes** or **No**, then press .
6. Using the button, follow the prompts to store a voice tag for the speed dial entry.

## 1 Speed Dial

When a voice tag is stored, press the button to call the number using the voice tag. Say "Call" and the voice tag name.

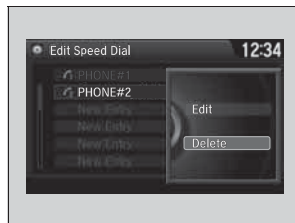


■ **To add a voice tag to a stored speed dial number**

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
  - ↳ Repeat the procedure to select **Edit Speed Dial**.
3. Select an existing speed dial entry.
  - ↳ From the pop-up menu, rotate to select **Edit**, then press .
4. Rotate to select **Voice Tag**, then press .
5. From the pop-up menu, rotate to select **Record**, then press .
6. Using the button, follow the prompts to complete the voice tag.

1 Speed Dial

Avoid using duplicate voice tags.  
Avoid using "home" as a voice tag.  
It is easier for HFL to recognize a longer name. For example, use "John Smith" instead of "John."



■ **To delete a voice tag**

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
- ↳ Repeat the procedure to select **Edit Speed Dial**.
3. Select an existing speed dial entry.
  - ↳ From the pop-up menu, rotate to select **Edit**, then press .
4. Rotate to select **Voice Tag**, then press .
  - ↳ From the pop-up menu, rotate to select **Clear**, then press .
5. You will receive a confirmation message on the screen. Rotate to select **Yes**, then press .

■ **To delete a speed dial**

1. Press the **SETTINGS** button.
2. Rotate to select **Phone Settings**, then press .
  - ↳ Repeat the procedure to select **Edit Speed Dial**.
3. Select an existing speed dial entry.
  - ↳ From the pop-up menu, rotate to select **Delete**, then press .
4. You will receive a confirmation message on the screen. Rotate to select **Yes**, then press .


Continued

## Making a Call



You can make calls by inputting any phone number, or by using the imported phonebook, call history, speed dial entries, or redial.

### 1 Making a Call

Any voice-tagged speed dial entry, phonebook name, or number can be dialed by voice from most screens. Press the  button and say "Call" and the voice tag name, "Call by name" and the phonebook name, or "Call" and the phone number.

The maximum range between your phone and vehicles is 30 feet (10 meters).

Once a call is connected, you can hear the voice of the person you are calling through the audio speakers.





■ **To make a call using the imported phonebook**

1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Phonebook**, then press .
4. The phonebook is stored alphabetically. Move to **Search**.
  - ↳ You can use the keyboard on the touch screen for an alphabetical search.
5. Rotate to select a number, then press .
  - ↳ Dialing starts automatically.

1 To make a call using the imported phonebook

This function is disabled while the vehicle is moving. However, you can call a stored voice-tagged speed dial number, phonebook name, or number using voice commands.

- 2 **Limitations for Manual Operation** P. 269
- 2 **Speed Dial** P. 285

You can use the keyboard on the On Demand Multi-Use Display™ for an alphabetical search.





■ **To make a call using a phone number**

1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Dial**, then press .
4. Rotate to select a number, then press .
5. Rotate to select , then press .
  - ↳ Dialing starts automatically.



■ **To make a call using redial**

1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Redial**, then press .
  - ↳ Dialing starts automatically.

1 To make a call using a phone number

This function is disabled while the vehicle is moving. However, you can call a stored voice-tagged speed dial number, phonebook name, or number using voice commands.

- 2 **Limitations for Manual Operation** P. 269
- 2 **Speed Dial** P. 285

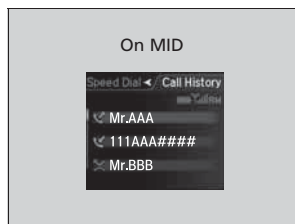
You can use the keyboard on the On Demand Multi-Use Display™ to input numbers. Select numbers, then to start dialing.





**To make a call using the call history**  
Call history is stored by **All**, **Dialed**, **Received**, and **Missed**.

1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Call History**, then press .
4. Move or to select **All**, **Dialed**, **Received**, and **Missed**.
5. Rotate to select a number, then press .  
↳ Dialing starts automatically.



**Steering switches**

1. Press the button.
2. Shift the left selector wheel right to select **Call History**.
3. Roll the left selector wheel to select a number.
4. Push the left selector wheel or the button.  
↳ Dialing starts automatically.

**To make a call using the call history**

The call history displays the last 20 dialed, received, or missed calls.  
(Appears only when a phone is connected to HFL.)

These icons next to the number indicate the following:

- Dialed calls.
- Received calls.
- Missed calls.

**Steering switches**

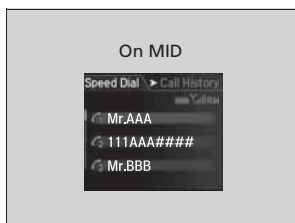
The call history displays the last 12 dialed, received, or missed calls.

Continued



**To make a call using a speed dial entry**

1. Press the **PHONE** button.
  2. Press the **MENU** button.
  3. Rotate to select **Speed Dial**, then press .
  4. Rotate to select a number, then press .
- Dialing starts automatically.



**Steering switches**

1. Press the button.
  2. Shift the left selector wheel left to select **Speed Dial**.
  3. Roll the left selector wheel to select a number.
  4. Push the left selector wheel or the button.
- Dialing starts automatically.

1 To make a call using a speed dial entry

Move to select **More Speed Dials** to view another paired phone's speed dial list. You can make a call from that list using the currently connected phone.

When a voice tag is stored, press the button to call the number using the voice tag.

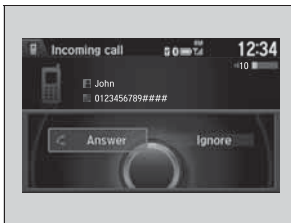
2 **Speed Dial** P. 285

Any voice-tagged speed dial entry, phonebook name or number can be dialed by voice from any screen. Press the button and follow the prompts.



**Steering switches**

The speed dial displays the 20 speed dial entries.

## Receiving a Call





When there is an incoming call, an audible notification sounds (if activated) and the **Incoming call** screen appears.

Press the  button to answer the call.  
Press the  button to decline or end the call.


## 1 Receiving a Call



### Call Waiting

Press the  button to put the current call on hold to answer the incoming call.

Press the  button again to return to the current call.

Ignore the incoming call if you do not want to answer it.

Press the  button if you want to hang up the current call.

You can select the icons on the On Demand Multi-Use Display™ instead of the  and  buttons.



Continued

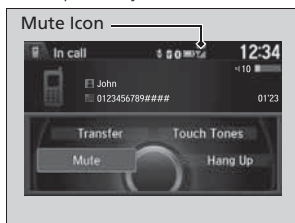
### Options During a Call

The following options are available during a call.



**Mute:** Mute your voice.

**Transfer:** Transfer a call from HFL to your phone.

**Touch Tones:** Send numbers during a call. This is useful when you call a menu-driven phone system.



The available options are shown on the Phone screen.

Rotate  to select one of the available options, then press .

- ⌋ The mute icon appears when **Mute** is selected. Select **Mute** again to turn it off.

### Options During a Call

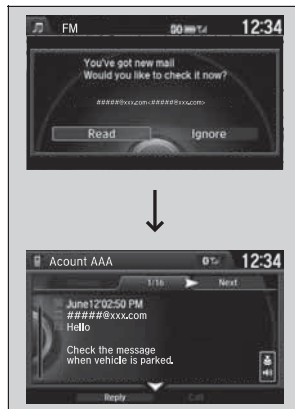
**Touch Tones:** Available on some phones.

You can select the icons on the On Demand Multi-Use Display™.



### Receiving a Text Message/E-mail

HFL can display newly received text messages and E-mails as well as 20 of the most recently received messages on a linked cell phone. Each received message can be read aloud and replied to using a fixed common phrase.



1. A pop-up appears and notifies you of a new text message or E-mail.
2. Rotate to select **Read** to listen to the message, then press .
  - ↳ The text message or E-mail is displayed. The system automatically starts reading out the message.
3. To discontinue the message read-out, press .

### 1 Receiving a Text Message/E-mail

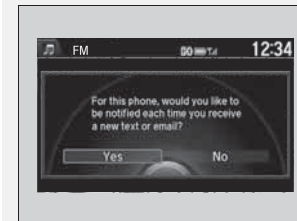
The system does not display any received messages while you are driving. You can only hear them read aloud.

With some phones, you may be able to display up to 20 most recent text messages and E-mails.

State or local laws may limit your use of the HFL text message/E-mail feature. Only use the text message/E-mail feature when conditions allow you to do so safely.

When you receive a text message or E-mail for the first time since the phone is paired to HFL, you are asked to turn the **New Text/Email Alert** setting to **On**.

- 2 **To turn on or off the text/E-mail notice**  
P. 279







Continued

### Selecting a Mail Account

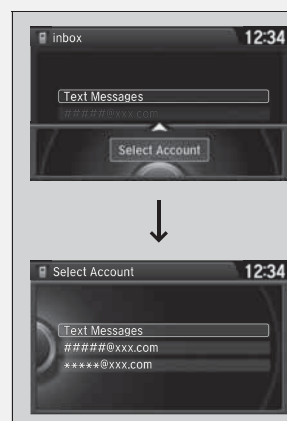
If a paired phone has text message or mail accounts, you can select one of them to be active and receive notifications.



1. Press the **SETTINGS** button.
2. Rotate  to select **Phone Settings**, then press .
  - ↳ Repeat the procedure to select **Select Account**.
3. Rotate  to select **Text Messages** or an E-mail account you want, then press .

### 1 Selecting a Mail Account

You can also select a mail account from the folder list screen or the message list screen. Move  to select **Select Account**, then press .



You can only receive notifications from one text message or mail account at a time.



## Displaying Messages



### ■ Displaying text messages

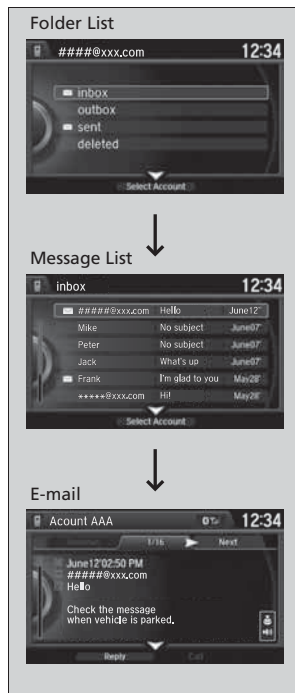
1. Press the **PHONE** button.
2. Press the **MENU** button.
3. Rotate to select **Text/Email**, then press .
- ↳ Select account if necessary.
4. Rotate to select a message, then press .
- ↳ The text message is displayed. The system automatically starts reading the message aloud.

### 1 Displaying Messages

The icon appears next to an unread message.

If you delete a message on the phone, the message is also deleted in the system. If you send a message from the system, the message goes to your phone's outbox.

To see the previous or next message, move or on the text message screen.

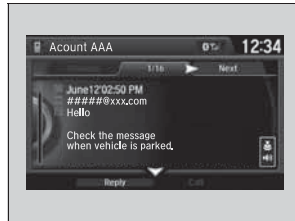


### ■ Displaying E-mails

1. Press the **PHONE** button.
  2. Press the **MENU** button.
  3. Rotate to select **Text/Email**, then press .
  4. Rotate to select a folder, then press .
  5. Rotate to select a message, then press .
- The E-mail is displayed. The system automatically starts reading the message aloud.

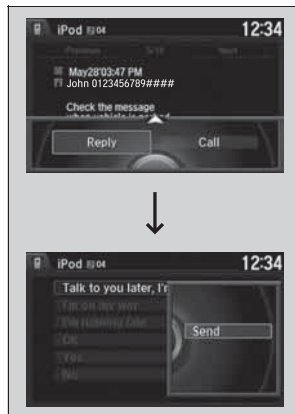
### 1 Displaying E-mails

Received text messages and E-mails may appear in the message list screen at the same time. In this case, text messages are titled **No subject**.



### ■ Read or stop reading a message

1. Go to the text message or E-mail screen.
  - ↳ The system automatically starts reading the message aloud.
  - ↳ **Displaying Messages** P. 297
2. Press to stop reading. Press again to start reading the message from the beginning.



### ■ Reply to a message

1. Go to the text message or E-mail screen.
  - ↳ The system automatically starts reading the message aloud.
  - ↳ **Displaying Messages** P. 297
2. Move and rotate to select **Reply**, then press .
3. Rotate to select the reply message, then press .
  - ↳ The pop-up menu appears on the screen.
4. Select **Send** to send the message.
  - ↳ **Message Sent** appears on the screen when the reply message was successfully sent.

<sup>1</sup> Reply to a message

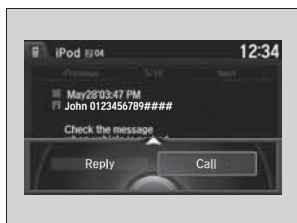
The available fixed reply messages are as follows:

- **Talk to you later, I'm driving.**
- **I'm on my way.**
- **I'm running late.**
- **OK**
- **Yes**
- **No**




You cannot add, edit, or delete reply messages.

Features

Continued



■ **Making a call to a sender**

1. Go to the text message screen.
  - The system automatically starts reading the message aloud.
  - 2 **Displaying text messages** P. 297
2. Move  and rotate  to select **Call**, then press .

Features





## Compass\*

When you set the power mode to ON, the compass self-calibrates, and the compass display appears.

### Compass Calibration

If the compass indicates the wrong direction, or the **CAL** indicator blinks, you need to manually calibrate the system.



1. Set the power mode to ON.
2. On the top screen of any audio source, press and hold  for five seconds.
  - ↳ The display switches to the **Compass settings** screen.
3. Rotate  to select **Calibration**, then press .
4. When the display changes to **Calibration Start**, press .
5. Drive the vehicle slowly in two circles.
  - ↳ The compass starts to show a direction after the calibration. The **CAL** indicator goes off.

\* Not available on all models

#### 1 Compass\*

Compass operation can be affected under the following conditions:

- Driving near power lines or stations
- Crossing a bridge
- Passing a large vehicle, or driving near a large object that can cause a magnetic disturbance
- When accessories such as antennas and roof racks are mounted by magnets






#### 1 Compass Calibration

Calibrate the compass in an open area.

While setting the compass, press the **BACK** button to cancel the setting mode and return to the previous screen.

## Compass Zone Selection

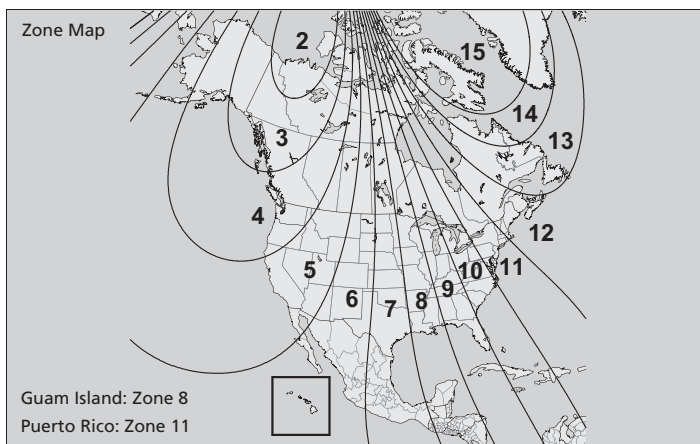



1. Set the power mode to ON.
2. On the top screen of any audio source, press and hold  for five seconds.
  - ↳ The display switches to the **Compass settings** screen.
3. Rotate  to select **Zone Adjust**, then press .
  - ↳ The display shows the current zone number the system is set to.
4. To change the zone, rotate  to select the zone number of your area (See Zone Map), then press .

### 1 Compass Zone Selection

The zone selection is done to compensate the variation between magnetic north and true north.

If the calibration starts while the audio system is in use, the display returns to normal after the calibration is completed.





# Driving

This chapter discusses driving, refueling, and information on items such as accessories.

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<b>Accessories and Modifications</b> .....	386	

\* Not available on all models

## Before Driving

### Driving Preparation

Check the following items before you start driving.

#### Exterior Checks

- Make sure there are no obstructions on the windows, door mirrors, exterior lights, or other parts of the vehicle.
  - ⊣ Remove any frost, snow, or ice.
  - ⊣ Remove any snow on the roof, as this can slip down and obstruct your field of vision while driving. If frozen solid, remove ice once it has softened.
  - ⊣ When removing ice from around the wheels, be sure not to damage the wheel or wheel components.
- Make sure the hood is securely closed.
  - ⊣ If the hood opens while driving, your front view will be blocked.
- Make sure the tires are in good condition.
  - ⊣ Check air pressure, check for damage and excessive wear.
    - 2 **Checking and Maintaining Tires** P. 417
- Make sure there are no people or objects behind or around the vehicle.
  - ⊣ There are blind spots from the inside.

#### 1 Exterior Checks

##### NOTICE

When doors are frozen shut, use warm water around the door edges to melt any ice. Do not try to force them open, as this can damage the rubber trim around the doors. When done, wipe dry to avoid further freezing.

Do not pour warm water into the key cylinder. You will be unable to insert key if the water freezes in the hole.

Heat from the engine and exhaust can ignite flammable materials left under the hood, causing a fire. If you've parked your vehicle for an extended period, inspect and remove any debris that may have collected, such as dried grass and leaves that have fallen or have been carried in for use as a nest by a small animal.

Also check under the hood for leftover flammable materials after you or someone else has performed maintenance on your vehicle.



## Interior Checks

- Store or secure all items on board properly.
  - ⊣ Carrying too much cargo, or improperly storing it, can affect your vehicle's handling, stability, stopping distance, and tires, and make it unsafe.
    - ↳ **Maximum Load Limit** P. 307
- Do not pile items higher than the seat height.
  - ⊣ They can block your view and may be thrown forward in the event of sudden braking.
- Do not place anything in the front seat footwells. Make sure to secure the floor mat.
  - ⊣ An object or unsecured floor mat can interfere with your brake and accelerator pedal operation while driving.
- If you have any animals on board, do not let them move around in the vehicle.
  - ⊣ They may interfere with driving and a crash could occur.
- Securely close and lock all doors and the tailgate.
  - ↳ **Locking/Unlocking the Doors from the Inside** P. 124
- Adjust your seating position properly.
  - ⊣ Adjust the head restraint, too.
    - ↳ **Adjusting the Seats** P. 161
    - ↳ **Adjusting the Head Restraints** P. 164
- Adjust the mirrors and steering wheel properly for your driving.
  - ⊣ Adjust them while sitting in the proper driving position.
    - ↳ **Adjusting the Steering Wheel** P. 157
    - ↳ **Adjusting the Mirrors** P. 158

## 1 Interior Checks

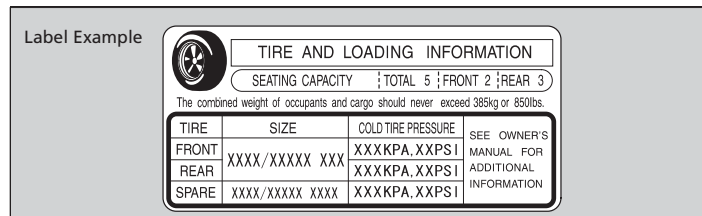
The headlight aim is set by the factory, and does not need to be adjusted. However, if you regularly carry heavy items in the cargo area or tow a trailer, have the aiming readjusted at a dealer or by a qualified technician.

Continued

- Be sure items placed on the floor behind the front seats cannot roll under the seats.
  - ↳ They can interfere with the driver's ability to operate the pedals, the operation of the seats, or the operation of the sensors under the seats.
- Everyone in the vehicle must fasten their seat belt.
  - ↳ **Fastening a Seat Belt** P. 34
- Make sure that the indicators in the instrument panel come on when you start the vehicle, and go off soon after.
  - ↳ Always have a dealer check the vehicle if a problem is indicated.
    - ↳ **Indicators** P. 70

## Maximum Load Limit

The maximum load for your vehicle is 1,173 lbs (532 kg). See Tire and Loading Information label attached to the driver's doorjamb.



This figure includes the total weight of all occupants, cargo, and accessories, and the tongue load if you are towing a trailer. Steps for Determining Correct Load Limit -

- (1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
- (2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- (3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- (4) The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs.  
(1,400 - 750 (5 x 150) = 650 lbs.)

### 1 Maximum Load Limit

## 3 WARNING

Overloading or improper loading can affect handling and stability and cause a crash in which you can be hurt or killed.

Follow all load limits and other loading guidelines in this manual.

Gross Vehicle Weight Rating (GVWR):  
The maximum allowable weight of the vehicle, all occupants, all accessories, all cargo, and the tongue load.

2 Specifications P. 480

Gross Axle Weight Rating (GAWR):  
The maximum allowable weight of the vehicle axle.







2 Specifications P. 480

- (5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in step 4.
- (6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

In addition, the total weight of the vehicle, all occupants, accessories, cargo, and trailer tongue load must not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR). Both are on a label on the driver's doorjamb.

Driving

**Load Limits Example**

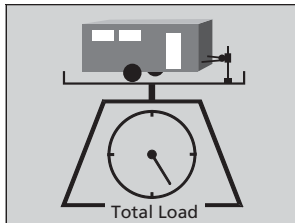
Example1		$\geq$		+	
	<p>Max Load 1,173 lbs (532 kg)</p>		<p>Passenger Weight 150 lbs x 2 = 300 lbs (68 kg x 2 = 136 kg)</p>		<p>Cargo Weight 873 lbs (396 kg)</p>
Example2		$\geq$		+	
	<p>Max Load 1,173 lbs (532 kg)</p>		<p>Passenger Weight 150 lbs x 5 = 750 lbs (68 kg x 5 = 340 kg)</p>		<p>Cargo Weight 423 lbs (192 kg)</p>

## Towing a Trailer

### Towing Preparation

#### Towing Load Limits

Your vehicle can tow a trailer if you carefully observe the load limits, use the proper equipment, and follow the towing guidelines. Check the load limits before driving.



#### Total trailer weight

Do not exceed the maximum allowable weight of the trailer, cargo, and everything in or on it shown in the table.

Towing loads in excess of this can seriously affect vehicle handling and performance and can damage the engine and drivetrain.

Number of occupants	4WD models with ATF cooler	4WD models without ATF cooler	2WD models
2	5,000 lbs (2,268 kg)	3,500 lbs (1,588 kg)	3,500 lbs (1,588 kg)
3	4,750 lbs (2,155 kg)	3,250 lbs (1,474 kg)	3,250 lbs (1,474 kg)
4	4,500 lbs (2,041 kg)	3,000 lbs (1,361 kg)	3,000 lbs (1,361 kg)
5	4,250 lbs (1,928 kg)	2,750 lbs (1,247 kg)	2,750 lbs (1,247 kg)
6	4,000 lbs (1,814 kg)	2,500 lbs (1,134 kg)	2,500 lbs (1,134 kg)
7	Towing not recommended		

Each weight limit is calculated based on the following conditions:

- Occupants fill seats from the front of the vehicle to the back
- Each occupant weights 150 lbs (68 kg)
- Each occupant has 15 lbs (7 kg) of cargo in the cargo area

Any additional weight, cargo or accessories reduce the maximum trailer weight and maximum tongue load.

#### 1 Towing Load Limits

### WARNING

Exceeding any load limit or improperly loading your vehicle and trailer can cause a crash in which you can be seriously hurt or killed.

Check the loading of your vehicle and trailer carefully before starting to drive.

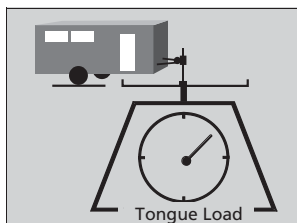
Check if all loads are within limits at a public scale. If a public scale is not available, add the estimated weight of your cargo load to the weight of your trailer (as quoted by the manufacturer), and then measure the tongue load with an appropriate scale or tongue gauge or estimate it based on cargo distribution.

Refer to the trailer owner's manual for additional information.

**Break-in Period**  
Avoid towing a trailer during your vehicle's first 600 miles (1,000 km).

Never exceed the gross weight ratings.  
Gross weight information  
2 **Vehicle Specifications** P. 480

Continued



■ **Tongue load**

The weight of the tongue with a fully loaded trailer on the hitch should be approximately:  
 Boat trailers: 5 – 15% of the total trailer weight  
 Other trailers: 10 – 15% of total trailer weight

Number of occupants	4WD models	2WD models
2	500 lbs (227 kg)	350 lbs (159 kg)
3	475 lbs (215 kg)	325 lbs (147 kg)
4	380 lbs (172 kg)	300 lbs (136 kg)
5	290 lbs (132 kg)	275 lbs (125 kg)
6	165 lbs (75 kg)	150 lbs (68 kg)
7	Towing not recommended	

Driving

■ **To estimate the tongue load**

Excessive tongue load reduces front tire traction and steering control. Too little tongue load can make the trailer unstable and cause it to sway.

You can estimate the tongue load by measuring the trailer hitch height from the ground in the following steps:

1. Park the vehicle on level ground.
2. Measure the distance between the ground and the bottom of the trailer hitch.
3. Connect the fully loaded trailer to the hitch.
4. Measure the distance between the ground and the bottom of the trailer hitch again.
5. Subtract the second measurement from the first measurement, then refer to the following table.

If the difference is	4WD models	2WD models
1 inches (2.5 cm)		150 lbs (68 kg)
1 1/2 inches (3.8 cm)		250 lbs (114 kg)
2 inches (5.1 cm)		350 lbs (159 kg)
2 3/8 inches (6.0 cm)	450 lbs (205 kg)	—
2 5/8 inches (6.7 cm)	500 lbs (227 kg)	—

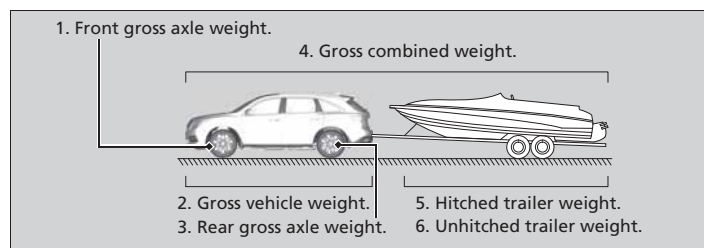
If the difference becomes more than indicated in the table, distribute the load or remove cargo as needed.

■ **How to weigh the trailer loads using the public scale**

Check each weight in the order indicated as shown.

Refer to the table on the right for each weight's limit except for the tongue load.

2 **Tongue load** P. 310



- If you cannot weigh the rear axle, subtract 1 from 2.
- The maximum gross combined weight (4) decreases by 2% for every 1,000 feet (305 meters) of elevation.
- To calculate the tongue load, subtract 5 from 6.
- Refer to the trailer owner's manual for additional information.

1 How to weigh the trailer loads using the public scale

Fully load the vehicle and trailer. An attendant who watches the scale is needed as all occupants should stay in the vehicle.

Weight limit for	2WD models	4WD models
Front gross axle	2,811 lbs (1,275 kg)	2,910 lbs (1,320 kg)
Gross vehicle	5,368 lbs (2,435 kg)	5,677 lbs (2,575 kg)
Rear gross axle	2,734 lbs (1,240 kg)	2,965 lbs (1,345 kg)
Gross combined	8,036 lbs (3,645 kg)	9,833 lbs (4,460 kg)

If a public scale is not available, add the estimated weight of your cargo load to the weight of your trailer (as quoted by the manufacturer), and then measure the tongue load with an appropriate scale or tongue gauge or estimate it based on cargo distribution.



## ■ Towing Equipment and Accessories

Towing generally requires a variety of supplemental equipment. To ensure the best quality, we recommend that you purchase Acura equipment whenever possible.

### 1 Towing Equipment and Accessories

Make sure that all equipment is properly installed and maintained, and that it meets federal, state, province/territory, and local regulations.

Consult your trailer maker for proper installation and setup of the equipment. Improper installation and setup can affect the handling, stability, and braking performance of your vehicle.

Consult your trailer sales or rental agency if any other items are recommended or required for your towing situation.

The lighting and wiring of trailers can vary by type and brand. If a connector is required, it should only be installed by a qualified technician.

Trailer packages and products:

- Ball mount, hitch plug, hitch pin etc.
  - Wiring harness kit
  - Trailer hitch kit (jumper harness included)
    - 2 **Trailer brakes** P. 314
    - 2 **Automatic transmission cooler** P. 316
- Are available at a dealer.

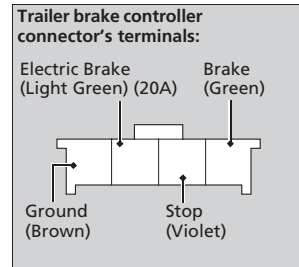
Continued

### ■ Trailer brakes

Recommended for any trailer with a total weight of 1,000 lbs (450 kg) or more: There are two common types of trailer brakes: surge and electric. Surge brakes are common for boat trailers, since the brakes will get wet.

If you choose electric brakes, be sure they are electronically actuated. Do not attempt to attach trailer brakes to your vehicle's hydraulic system, as it will lower braking effectiveness and create a potential hazard.

The 4-pin gray connector installed in your vehicle has all of the circuits required to install most electric trailer brake controllers.



Driving

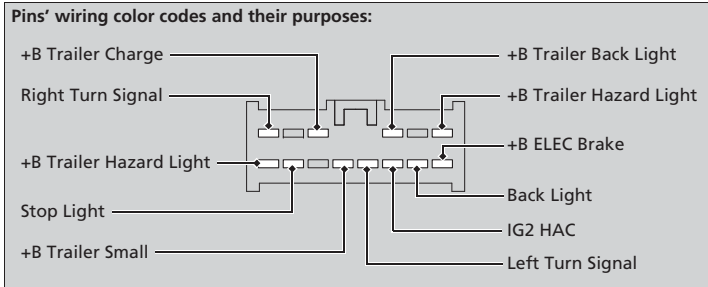
Have a qualified mechanic install your trailer brake controller following the trailer brake controller manufacturer's instructions. Failure to properly install the trailer brake controller may increase the distance it takes for you to stop your vehicle when towing a trailer.

#### 1 Trailer brakes

The 4-pin gray connector is located under the instrument panel near the top of the parking brake pedal.

■ **Trailer light**

Trailer lights and equipment must comply with federal, state, province/territory, and local regulations. Check with your local trailer sales or rental agency for the requirements in the area where you plan to tow.



We recommend that you have a dealer install a Acura wiring harness and converter. They are designed for your vehicle.

1 Trailer light

The trailer lighting connector is located behind the left side panel in the cargo area. Even if you are planning to use the non-Acura trailer lighting harness and converter, ask a dealer for the correct connector and pins.

### ■ Hitches

Read the trailer manufacturer's instructions, and select the appropriate draw bar for the height of the trailer you will be towing.

### ■ Weight distribution hitches

Your vehicle is designed to tow without the need for a load distributing hitch. If you wish to use one, please consult your trailer maker for proper installation and set-up. Improper set-up could degrade the handling, stability, and braking performance of your vehicle.

### ■ Safety chains

Always use safety chains when you tow a trailer. Leave enough slack to allow the trailer to turn corners easily, but do not allow the chains to drag on the ground.

### ■ Sway control

This device can be used if your trailer tends to sway. Your trailer maker can tell you what kind of sway control you need and how to install it. Improper installation could degrade the handling and stability of your vehicle.

### ■ Automatic transmission cooler

Install an additional ATF (automatic transmission fluid) cooler to help prevent the transmission from overheating, and damaging. You can get the additional ATF cooler at a dealer.

#### 4WD models

An additional ATF cooler is required to keep the transmission from overheating when towing more than 3,500 lbs (1,588 kg). You can get the additional ATF cooler at a dealer.

### ■ Trailer mirrors

Many states, provinces and territories require special exterior mirrors when towing a trailer. Install special mirrors whenever you cannot clearly see behind you, or if the trailer creates a blind spot.

## Trailer Stability Assist\*

Helps to stabilize the vehicle and trailer when the trailer severely sways.

### ■ How trailer stability assist works

When the vehicle and trailer become unstable while driving, trailer stability assist determines the cause. If the trailer oscillation is detected as the cause, and the swaying increases, the system applies the brakes or controls engine output to reduce vehicle speed.

Both the vehicle and trailer brake lights come on automatically if you brake to reduce vehicle speed.

### 1 Trailer Stability Assist\*

Trailer stability assist is not a function that prevents the vehicle and trailer from swaying. Avoid high speeds, abrupt steering, improper trailer load, and sudden braking to keep the trailer from swaying. When swayed too severely, the system becomes ineffective, and you may lose control of your vehicle, causing the trailer to roll over or get damaged.

➤ **Driving Safely with a Trailer** P. 318

Trailer towing sway is caused by:

- Crosswinds
- Improper towbar down load
- Excessive Speed

The VSA® system indicator blinks during the trailer stability assist operation.

➤ **VSA® Operation** P. 358

\* Not available on all models

## Driving Safely with a Trailer

### ■ Things You Need To Know Before Towing a Trailer

- Have the trailer properly serviced and keep it in good condition.
- Make sure that all the weights and load in the vehicle and trailer are within limits.
  - ▢ **Towing Load Limits** P. 309
- When towing more than 3,500 lbs (1,590 kg), use of gasoline with a pump octane number of 91 or higher is recommended.
  - ▢ Towing performance can be affected by high altitude, high temperature, or steep uphill.
- Securely attach the hitch, safety chains, and other necessary parts to the trailer.
- Securely store all the items in and on the trailer so that they do not shift while driving.
- Check if the lights and brakes on the trailer are working properly.
- Check the pressures of the trailer tires, including the spare.

### ■ Towing Speeds and Gears

- Drive slower than normal.
- Obey posted speed limits for vehicles with trailers.
- Use the D position when towing a trailer on level roads.

### ■ Turning and Braking

- Turn more slowly and with a wider turning arc than normal.
- Allow more time and distance for braking.
- Do not brake or turn suddenly.

#### 1 Driving Safely with a Trailer

##### Parking

In addition to the normal precautions, place wheel chocks at each of the trailer's tires.

#### 1 Towing Speeds and Gears

When towing a fixed-sided trailer (e.g., camper), do not exceed 55 mph (88 km/h).  
At higher speeds, the trailer may sway or affect vehicle handling.

### ■ Driving in Hilly Terrain

- Monitor your temperature gauge. If it nears the red (Hot) mark, turn off the climate control system and reduce speed. Pull to the side of the road safely to cool down the engine if necessary.
- Shift to the S position if the transmission shifts frequently.

### ■ Retrieving a Boat

If the vehicle tires slip when retrieving a boat from the water, keep the transmission in D and do not use the sequential shift mode in S. This prevents damage to the transmission.

## Towing Your Vehicle

Your vehicle is not designed to be towed behind a motor home. If your vehicle needs to be towed in an emergency, refer to the emergency towing information.

2 **Emergency Towing** P. 475

## Off-Highway Driving Guidelines

### General Information

Your vehicle has been designed primarily for use on pavement, however, its higher ground clearance allows you to occasionally travel on unpaved roads. It is not designed for trail-blazing, or other challenging off-road activities.

If you decide to drive on unpaved roads, you will find that it requires somewhat different driving skills and that your vehicle will handle somewhat differently than it does on pavement. Pay attention to the precautions and tips in this section, and get acquainted with your vehicle before leaving the pavement.

### Important Safety Precautions

To avoid loss of control or rollover, be sure to follow all precautions and recommendations:

- Be sure to store cargo properly and do not exceed your cargo load limits.
  - 2 **Maximum Load Limit** P. 307
- Whenever you drive, make sure you and your passengers always wear seat belts.
- Keep your speed low, and never go faster than the conditions allow.
- It's up to you to continually assess the situation and drive within the limits.

1 Off-Highway Driving Guidelines

### 3 WARNING

**Improperly operating this vehicle on or off pavement can cause a crash or rollover in which you and your passengers can be seriously injured or killed.**

- Follow all instructions and guidelines in this owner's manual.
- Keep your speed low, and don't drive faster than conditions permit.

Failure to operate your vehicle correctly might result in a crash or a rollover.

- 2 **Important Handling Information** P. 28
- 2 **Precautions While Driving** P. 327

Spinning the tires can also damage the SH-AWD system.

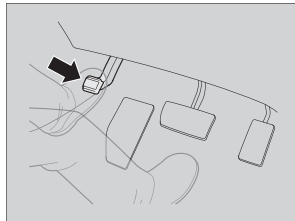


## Avoiding Trouble

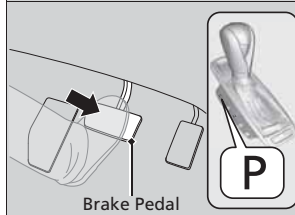
- **Check Out Your Vehicle** before you leave the pavement and make sure that all scheduled maintenance has been completed. Pay special attention to the condition of the tires, and check the tire pressures.
- **Remember** the route you choose presents limits (too steep or bumpy), you have limits (driving skill and comfort), and your vehicle has limits (traction, stability, and power). Failing to recognize these limits will likely put you and your passengers in a hazardous situation.
- **Accelerating and Braking** should be done slowly and gradually. Trying to start or stop too fast can cause a loss of traction and you could lose control.
- **Avoiding Obstacles and Debris** in the road reduces the likelihood of a rollover or damage to your suspension or other components.
- **Driving on Slopes** increases your risk of a rollover, particularly if you attempt to drive across a slope that is too steep. Going straight up or down a slope is usually the safest. If you can't clearly see all conditions or obstacles on a slope, walk it before you drive it. If there is any doubt whether you can safely pass, don't try it. Find another route. If you get stuck when climbing, do not try to turn around. Back down slowly following the same route you took up the hill.
- **Crossing a Stream** - Avoid driving through deep water. If you encounter water in your route (a small stream or large puddle, for example), evaluate it carefully before going ahead. Make sure it is shallow, flowing slowly, and has firm ground underneath. If you are not sure of the depth or the ground, turn around and find another route. Driving through deep water can also damage your vehicle. The water can get into the transmission and differential, diluting the lubricant and causing an eventual failure. It can also wash the grease out of the wheel bearings.
- **If You Get Stuck**, carefully go in the direction that you think will get you unstuck. Do not spin the tires as this will only make things worse and could damage the transmission. If you are unable to free yourself, your vehicle will need to be towed. Front and rear tow hooks are provided for this purpose.

## When Driving

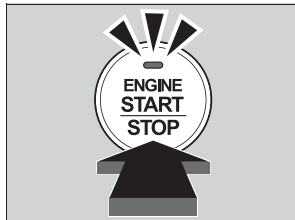
### Starting the Engine



1. Make sure the parking brake is applied.



2. Check that the shift lever is in **P**, then depress the brake pedal.  
⌋ Although it is possible to start the vehicle in **N**, it is safer to start it in **P**.



3. Press the **ENGINE START/STOP** button without depressing the accelerator pedal. The engine will crank until it starts.

#### 1 Starting the Engine

Keep your foot firmly on the brake pedal when starting the engine. The engine is harder to start in cold weather and in thinner air found at altitudes above 8,000 feet (2,400 meters).

When starting the engine in cold weather, turn off all electrical accessories such as the lights, climate control system, and rear defogger in order to reduce battery drain.

If you live in a region where winter is extremely cold, an engine block heater will improve starting and warming of the engine. If temperatures consistently below  $-22^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$ ) are expected, the coolant mixture should be changed to a higher concentration to prevent freezing. Consult a dealer for details. If the exhaust system sounds abnormal or you can smell exhaust gas inside the vehicle, have your vehicle checked by a dealer. There may be a problem with the engine or exhaust system.

Bring the keyless access remote close to the **ENGINE START/STOP** button if the battery in the keyless access remote is weak.

#### 2 If the Keyless Access Remote Battery is Weak P. 458

The engine may not start if the keyless access remote is subjected to strong radio waves.

Do not hold the **ENGINE START/STOP** button to start the engine.

If the engine does not start, wait at least 10 seconds before trying again.

### Stopping the Engine

You can turn the engine off when the vehicle is completely stopped.

1. Shift to P .
2. Press the **ENGINE START/STOP** button with your foot on the brake pedal.

### 1 Starting the Engine

The immobilizer system protects your vehicle from theft.

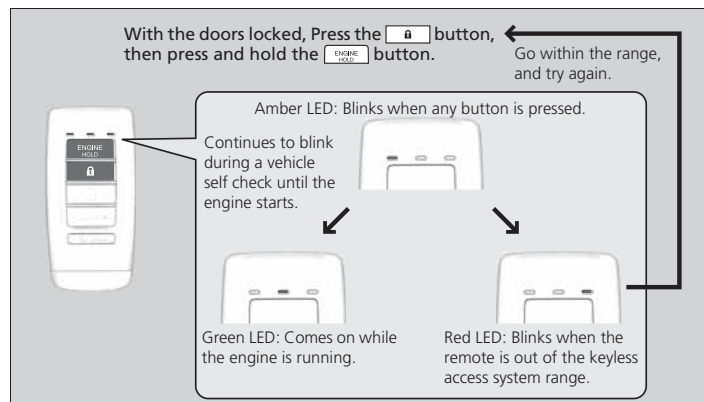
If an improperly coded device is used, the engine's fuel system is disabled.

- 2 **Immobilizer System** P. 135

### Remote Engine Start with Vehicle Feedback\*

You can remotely start the engine using the two-way keyless access remote from distances up to 328 feet (100 meters) from the vehicle.

#### To start the engine



The engine runs for up to 10 minutes without you starting the vehicle.

To extend the run time for another 10 minutes during the first run, press the **LOCK** button, then press and hold the **ENGINE START** button.

The amber LED blinks, then the green LED comes back on if a 10-minute extension request was transmitted successfully.

After pressing the (lock) button, wait for the green LED to blink. This indicates that all the doors and the tailgate are locked.

\* Not available on all models

#### 1 Remote Engine Start with Vehicle Feedback\*

**WARNING:** Carbon monoxide gas is toxic and can rapidly accumulate in closed or even partly enclosed areas.

Breathing it can cause unconsciousness and even kill you.

Never use the remote engine starter with the vehicle parked in a garage or other areas with limited ventilation.

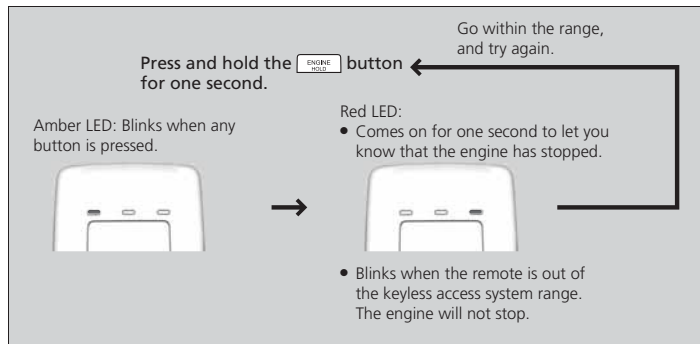
Operate the remote in an open space from distances up to 328 feet (100 meters) from the vehicle. If there are buildings and obstacles between your vehicle and the remote, the range will be reduced.

This distance may vary by external electrical interference.

The engine may not start by the remote engine start if:

- You have disabled a remote engine start setting using the multi-information display (MID).
- The power mode is not in VEHICLE OFF (LOCK).
- The shift lever is in a position other than P.
- The hood is open, or any door or the tailgate is unlocked.
- You have already used the remote twice to start the engine.
- Another registered keyless access remote is in the vehicle.
- There is any antenna failure.
- Door is unlocked with the built-in key.

■ To stop the engine



1 Remote Engine Start with Vehicle Feedback\*

- The engine oil pressure is low.
- The engine coolant temperature is extremely high.
- The telematics unit malfunctions.
- The security system alarm is not set.

Before starting the engine, make sure to check the door lock status using the remote. When you press the **LOCK** button, wait for the green LED to blink. If the red LED turns on, the doors and tailgate did not lock, and the engine does not start.

While the engine is running, the vehicle will automatically precondition inside the vehicle.

When it is warm outside:

- The air conditioning is activated in recirculation mode.
- The seat ventilation is activated\*.

When it is cold outside:

- The defroster is activated at a moderately warm temperature.
- The rear defogger and door mirror heaters are activated.
- The seat and heated steering wheel are activated\*.

2 **Heated Steering Wheel**\* P. 181

2 **Front Seat Heaters and Seat Ventilation**\* P. 182, 183

\* Not available on all models

## Starting to Drive

When the engine was started using the two-way keyless access remote\*

1. Depress the brake pedal and press the **ENGINE START/STOP** button simultaneously.

When the engine was started in any case

2. Keeping your right foot on the brake pedal, release the parking brake. Check that the parking brake indicator has gone off.

↳ **Parking Brake** P. 367

3. Put the shift lever in **D**. Select **R** when reversing.

4. Gradually release the brake pedal and gently depress the accelerator pedal to pull away.

### Hill start assist system

Hill start assist keeps the brake engaged briefly to help prevent the vehicle from rolling on inclines as you move your foot from the brake pedal to the accelerator.

Move the shift lever to **D** or **S** when facing uphill, or **R** when facing downhill, then release the brake pedal.

The brakes remain engaged briefly as you release the brake pedal.

## 1 Starting to Drive

When the engine was started using the two-way keyless access remote\*

The engine stops when the shift lever is moved out of **P** before the **ENGINE START/STOP** button is pressed. Follow the step 1 when starting to drive.

### 1 Hill start assist system

Hill start assist may not prevent the vehicle from rolling downhill on a very steep or slippery slope, and will not operate on small inclines.

Hill start assist is not a replacement for the parking brake.

## Precautions While Driving

### Driving Guidelines for Your Utility Vehicle

Utility vehicles have a significantly higher rollover rate than other types of vehicles. To prevent rollovers or loss of control:

- Take corners at slower speeds than you would with a passenger vehicle.
- Avoid sharp turns and abrupt maneuvers whenever possible.
- Do not modify your vehicle in any way that you would raise the center of gravity.
- Do not carry heavy cargo on the roof.

### In Rain

Avoid driving in deep water and on flooded roads. This can damage the engine, driveline, or cause electrical component failure.

### Other Precautions

If there is a strong impact with something under the vehicle, stop in a safe location. Check the underside of the vehicle for damage or any fluid leaks.

### 1 Precautions While Driving

#### NOTICE

Do not operate the shift lever while pressing the accelerator pedal. You could damage the transmission.

#### NOTICE

If you repeatedly turn the steering wheel at an extremely low speed, or hold the steering wheel on the full left or right position for a while, the system heats up. The system goes into a protective mode, and limits its performance. The steering wheel becomes harder and harder to operate. Once the system cools down, the EPS system is restored. Repeated operation under these conditions can eventually damage the system.

If the power mode is set to ACCESSORY or VEHICLE OFF (LOCK) while driving, the engine will shut down and all steering and brake power assist functions will stop, making it difficult to control the vehicle.

Do not put the shift lever in N , as you will lose engine braking (and acceleration) performance.

During the first 600 miles (1,000 km) of operation, avoid sudden acceleration or full throttle operation so as not to damage the engine or powertrain.

Avoid hard braking for the first 200 miles (300 km). You should also follow this when the brake pads are replaced.

## Automatic Transmission

### ■ Creeping

The engine runs at a higher idle speed and creeping increases. Keep the brake pedal firmly depressed when stopped.

### ■ Kickdown

Quickly depressing the accelerator pedal while driving uphill may cause the transmission to drop to a lower gear, unexpectedly increasing vehicle speed. Depress the accelerator pedal carefully, especially on slippery roads and curves.

#### 1 Driving Guidelines for Your Utility Vehicle

Failure to operate your vehicle correctly might result in a crash or a rollover.

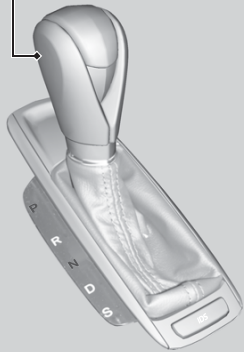
- 2 **Important Handling Information** P. 28
- 2 **Precautions While Driving** P. 327



## Shifting

Change the shift position in accordance with your driving needs.

### Shift lever positions



Release Button

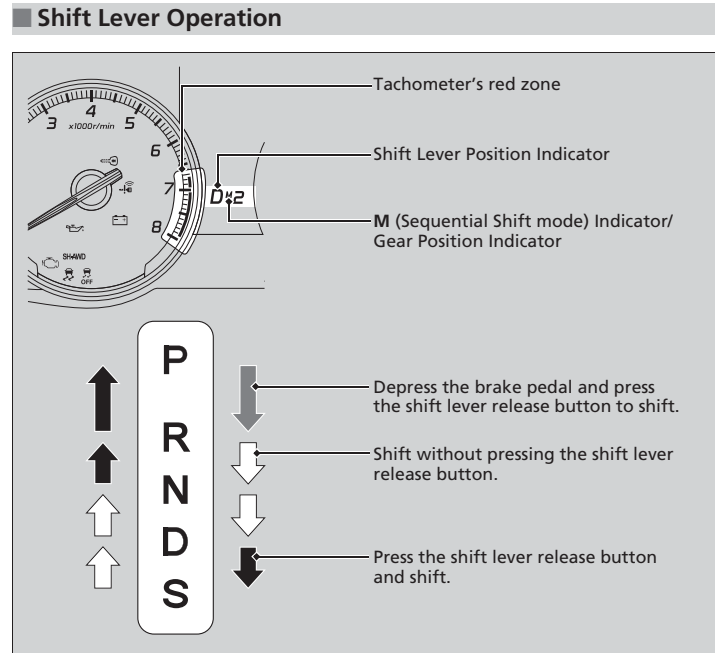
- P** **Park**  
Used when parking or starting the engine
- R** **Reverse**  
Used when reversing
- N** **Neutral**  
Used when idling
- D** **Drive**  
Used:
  - For normal driving (gears change between 1st and 6th automatically)
  - When temporarily driving in the sequential mode
- S** **Drive (S)**  
Used for:
  - Automatically changing gears between 1st and 5th (5th gear is used only at high speed)
  - Driving in the sequential mode

### 1 Shifting

You cannot change the power mode from ON to VEHICLE OFF (LOCK) unless the shift lever is in P .

The vehicle may move forward very slightly even in N while the engine is cold. Depress the brake pedal firmly and, when necessary, apply the parking brake.

When shifting gears in extremely low temperatures (-22°F/-30°C), there may be a short delay before the shift indicated in the display. Always confirm you are in the correct gear before driving.



Driving

### 1 Shift Lever Operation

**NOTICE**

When you change the shift lever from D to R and vice versa, come to a complete stop and keep the brake pedal depressed. Operating the shift lever before the vehicle has come to a complete standstill can damage the transmission.

Use the shift lever position indicator to check the lever position before pulling away.

Whichever position the shift lever is in when driving, a blinking transmission indicator indicates a transmission problem. Avoid sudden acceleration and have the transmission checked by a dealer as soon as possible.

The fuel supply may be cut off if you drive at engine speeds in or over the tachometer's red zone (engine speed limit). If this happens, you may experience a slight jolt.

It may not be possible to operate the shift lever if the brake pedal is applied while the shift lever release button is held down. Depress the brake pedal first.

### Sequential Shift Mode

Use the paddle shifters to change between 1st and 6th gears without removing your hands from the steering wheel. The transmission will switch to the sequential shift mode.

#### ■ When the shift lever is in **D** :

The vehicle will go into the sequential shift mode momentarily, and the gear position indicator will come on.

Once you start traveling at a constant speed, the sequential shift mode will automatically switch off, and the gear position indicator will go off.

Hold the + paddle shifter for two seconds to return to normal drive.

#### ■ When the shift lever is in **S** :

The vehicle will go into the sequential shift mode, and the **M** (sequential shift mode) indicator and gear position indicator will come on. At speeds of 6 mph (10 km/h) or less, the vehicle automatically shifts down into 1st gear. If you do not operate the paddle shifters while in 1st gear, the transmission automatically shifts up to 2nd gear.

You can only pull away in 1st or 2nd gear.

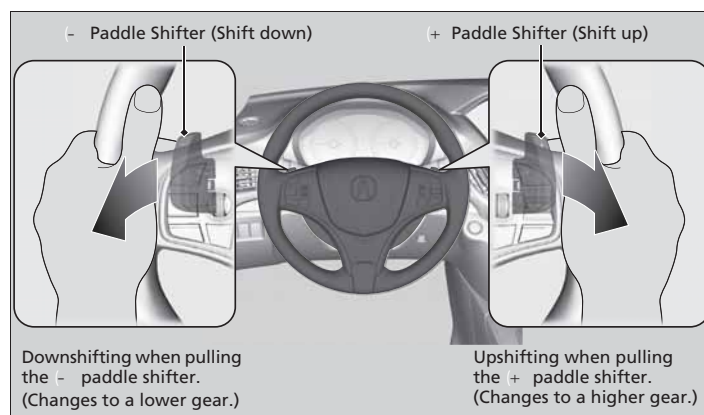
When switching out of the sequential shift mode, move the shift lever from **S** to **D**. When the sequential shift mode is canceled, the **M** indicator and gear position indicator go off.

**Second gear lock mode**

If you pull the + paddle shifter while stopped or driving at 6 mph (10 km/h) or less, the gear position will be locked in 2nd gear. This makes it easier to pull away on slippery surfaces such as snow covered roads.

To cancel the 2nd gear lock mode, pull the - paddle shifter, or move the shift lever from S to D.

**Sequential Shift Mode Operation**



Driving

**Sequential Shift Mode Operation**

Each paddle shift operation makes a single gear change. To change gears continuously, release the paddle shifter before pulling it again for the next gear.

**Recommended Shift Points**

Use this table as a guideline for efficient fuel economy and effective emission control.

Shift Up	Normal Acceleration
1st to 2nd	15 mph (24 km/h)
2nd to 3rd	25 mph (40 km/h)
3rd to 4th	40 mph (64 km/h)
4th to 5th	45 mph (72 km/h)
5th to 6th	50 mph (80 km/h)

The gear position indicator blinks when you cannot shift up or down. It indicates that your vehicle speed is not in its allowable gear shifting range. Slightly accelerate to shift up and decelerate to shift down while the indicator is blinking.

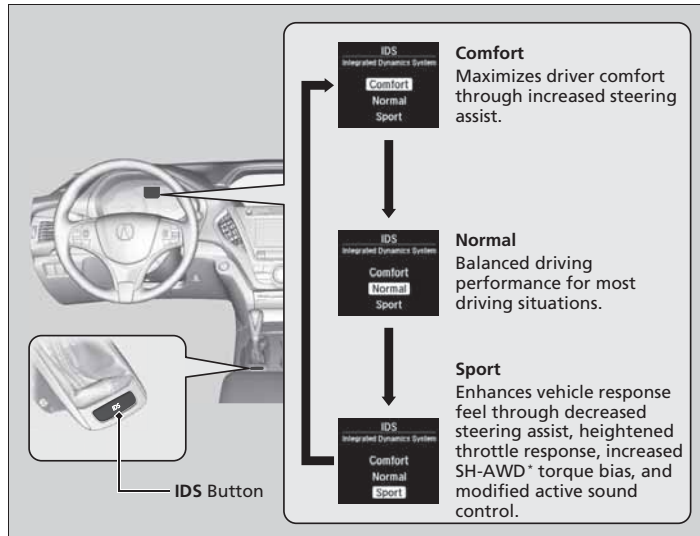
## Integrated Dynamics System (IDS)

Modifies the dynamic character of the vehicle. There are three **IDS** modes to select from: **Comfort**, **Normal**, and **Sport**.

Press the IDS button to select a mode. The mode you have selected appears on the MID.

You can customize the IDS mode default setting using the MID.

2 **Customized Features** P. 104



\* Not available on all models

## Cruise Control

Maintains a constant vehicle speed without having to keep your foot on the accelerator. Use cruise control on freeways or open roads where you can travel at a constant speed with little acceleration or deceleration.

### When to use

- Vehicle speed for cruise control:  
Desired speed in a range above roughly 25 mph (40 km/h) ~

Always keep sufficient distance between you and the vehicle in front of you.

- Shift positions for cruise control:  
In D or S



### How to use

- Press the **CRUISE** button on the steering wheel.



**CRUISE MAIN** is on in the instrument panel. Cruise control is ready to use.

### 1 Cruise Control

## 3 WARNING

Improper use of the cruise control can lead to a crash.

Use the cruise control only when traveling on open highways in good weather.

It may not be possible to maintain a constant speed when driving uphill or downhill.

When not using cruise control:  
Turn off cruise control by pressing the **CRUISE** button.

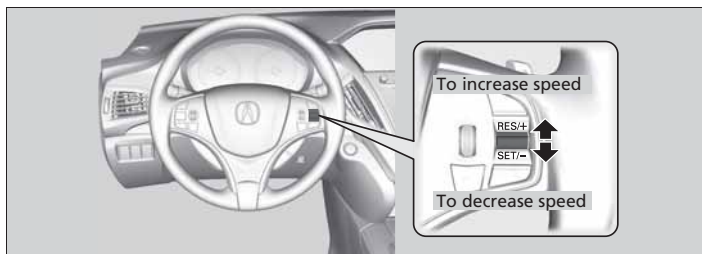


Take your foot off the pedal and press the **RES/+ / SET/-** switch down when you reach the desired speed.

The moment you release the **RES/+ / SET/-** switch, the set speed is fixed, and cruise control begins. The **CRUISE CONTROL** indicator comes on.

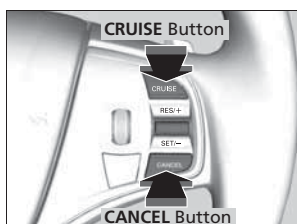
### To Adjust the Vehicle Speed

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



- Each time you press the switch up or down, the vehicle speed is increased or decreased by about 1 mph or 1 km/h accordingly.
- If you keep the switch pressed up or down, the vehicle speed increases or decreases until you release it. This speed is then set.

### To Cancel



To cancel cruise control, do any of the following:

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

The **CRUISE CONTROL** indicator goes off.

### To Adjust the Vehicle Speed

You can set the vehicle speed pressing the **RES/+**/**SET/-** switch down on the steering wheel when adjusting the speed with the accelerator and brake pedals.

### 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/+**/**SET/-** switch up 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 **CRUISE** button is turned off

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

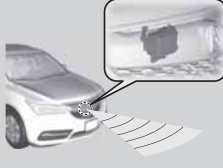


## Adaptive Cruise Control (ACC) with Low Speed Follow (LSF)\*

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

**When to use** The radar sensor is in the front grille.

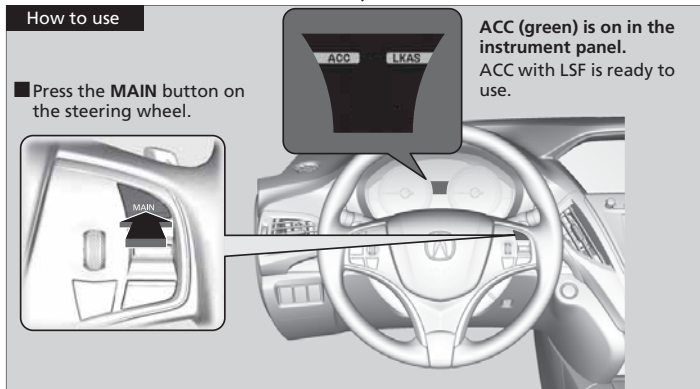
- Vehicle speed for ACC with LSF: **A vehicle is detected ahead within ACC with LSF range** – ACC with LSF operates at any vehicle speed. **No vehicle is detected within ACC with LSF range** – ACC with LSF operates at the speed of 25 mph (40km/h) or above.
- Shift positions for ACC with LSF: In D or S.



**How to use**

- Press the **MAIN** button on the steering wheel.

ACC (green) is on in the instrument panel. ACC with LSF is ready to use.



\* Not available on all models

Continued

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

#### 3 WARNING

Improper use of ACC with LSF can lead to a crash.

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

#### 3 WARNING

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

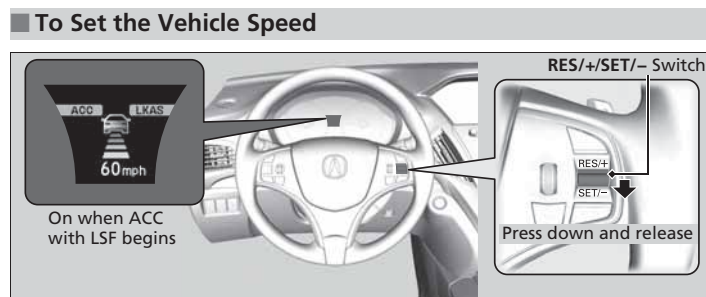
A vehicle that moves without operator control can cause a crash, resulting in serious injury or death.

#### Important Safety Reminder

As with any system, there are limits to ACC with LSF. Inappropriate use of ACC with LSF can result in a serious accident. Use the brake pedal whenever necessary, and always keep a safe distance between your vehicle and other vehicles.

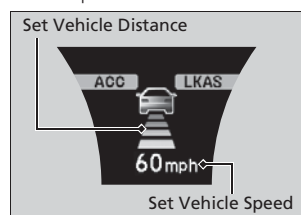
The radar sensor for ACC with LSF is shared with the collision mitigation braking system™ (CMBS™).

2 **Collision Mitigation Braking System™ (CMBS™)**\* P. 371



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

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



When ACC with LSF starts operating, the vehicle icon, distance bars and set speed appear on the MID.

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

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

Do not use ACC with LSF under these conditions:

- In poor visibility (e.g., bad weather, such as rain, fog, and snow).
- When you must slow down and speed up repeatedly.
- On winding roads.
- When you enter a toll gate, interchange, service area, parking area, etc. In these areas, there is no vehicle ahead of you, but ACC with LSF would still try to accelerate to your set speed.
- On a slippery road (for example a road covered with ice or snow).
- When a spare tire\* is installed.
- When going down a steep hill where the engine braking does not work sufficiently.

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

1 To Set the Vehicle Speed

You can switch the displayed set speed measurements on the MID between mph and km/h.

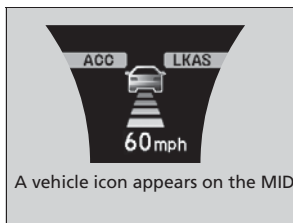
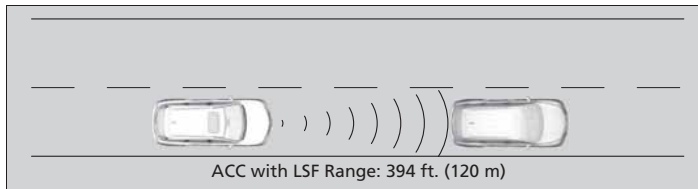
2 Customizable Features P. 107

## When in Operation

### There is a vehicle ahead

ACC with LSF monitors if a vehicle ahead of you enters the ACC with LSF range. If it does, the ACC with LSF system maintains or decelerates your vehicle's set speed in order to keep the vehicle's set following distance from the vehicle ahead.

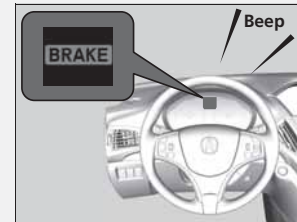
2 To Set or Change Following Distance P. 342



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

### 1 When in Operation

If the vehicle ahead of you slows down abruptly, or if another vehicle cuts in front of you, the beeper sounds and a message appears on the multi-information display to alert you. Depress the brake pedal, and keep an appropriate distance from the vehicle ahead.



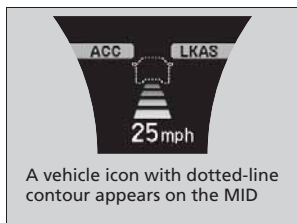
Even if the distance between your vehicle and the vehicle ahead is short, ACC with LSF may start accelerating your vehicle under the following circumstances:

- 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 distance between the vehicles.

If you do not want to hear a beep when the system detects a vehicle, or when the vehicle goes out of the ACC with LSF range, you can change the pre-running detect car beep setting.

2 Customizable Features P. 107

■ **There is no vehicle ahead**



When driving at 22 mph (35 km/h) or above: 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 travelling at the set speed, ACC with LSF accelerates your vehicle to the set speed, and then maintains it.

When driving under 22 mph (35 km/h) and no vehicle is detected ahead: ACC with LSF automatically cancels. The beeper sounds once.

■ **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 LSF range. ACC with LSF stays on unless you cancel it. Once you release the accelerator pedal, the system resumes the set speed.

■ **A vehicle ahead is within ACC range and stops**



Your vehicle also stops, automatically. The **Stopped** message appears on the multi-information display.

When the vehicle ahead of you starts again, the vehicle icon on the MID blinks. If you press the **RES/+ / SET/-** switch up or down, or depress the accelerator pedal, ACC with LSF operates again within the prior set speed.

1 When in Operation

**Limitations**

Use the brake pedal to maintain a safe distance with other vehicles in the following cases. ACC with LSF may not work properly when:

- A vehicle ahead of you is parked when your vehicle is moving.
- Motorcycles or other small vehicles are ahead of you.
- A vehicle cuts in front of you at a short distance.

ACC with LSF may momentarily apply brakes or sound a beep if there is a vehicle, or even a building, next to you if:

- You make a sudden turn or drive on a narrow road.
- You abruptly move the steering wheel.
- You are in an unusual position within your lane.

When your vehicle stops automatically because a vehicle detected ahead of you has stopped, the distance between the two vehicles will vary based on the ACC with LSF distance setting, as follows:

Short: 11.5 ft (3.5 m)

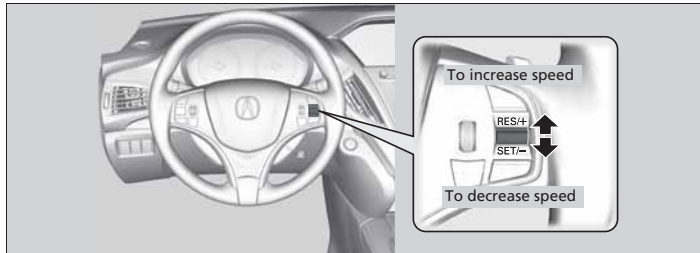
Middle: 14.1 ft (4.3 m)

Long, Extra Long: 16.4 ft (5.0 m)

2 **To Set or Change Following Distance** P. 342

### To Adjust the Vehicle Speed

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



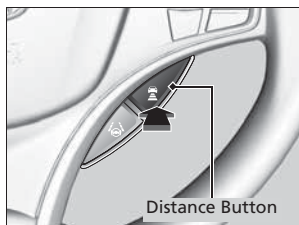
- Each time you press the switch up or down, the vehicle speed is increased or decreased by about 1 mph or 1 km/h accordingly.
- If you keep the switch pressed up or down, the vehicle speed increases or decreases by about 5 mph or 5 km/h accordingly.

### 1 To Adjust the Vehicle Speed


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

Continued

**To Set or Change Following Distance**







Distance Button

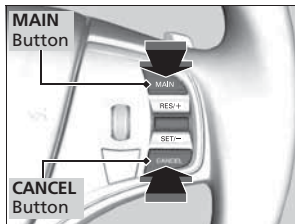
Press the  (distance) button to change the ACC with LSF following distance. Each time you press the button, the following distance (the distance behind a vehicle detected ahead of you) setting cycles through short, middle, long, and extra long following distances.

The higher your selected set speed is, the longer the short, middle, long or extra long following distance becomes. See the following examples for your reference.

Driving

Following Distance		When the Set Speed is:	
		50 mph (80 km/h)	65 mph (104 km/h)
Short		83 feet 25 meters	100 feet 31 meters
Middle		110 feet 33 meters	137 feet 42 meters
Long		154 feet 47 meters	200 feet 61 meters
Extra Long		204 feet 62 meters	265 feet 81 meters

### To Cancel



To cancel ACC with LSF, do any of the following:

- Press the **CANCEL** button.
- Press the **MAIN** button.
  - ↳ ACC with LSF indicator goes off.
- Depress the brake pedal.
  - ↳ When the LSF function has stopped the vehicle, you cannot cancel ACC with LSF by depressing the brake pedal.

### To Cancel

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

Even if your vehicle speed has gone down to less than 25 mph (40 km/h), you can still resume the prior set speed when ACC with LSF detects a vehicle ahead of you.

You cannot set or resume in the following situations:

- When the vehicle speed is less than 25 mph (40km/h) and there is no vehicle detected in front of your vehicle
- When the **MAIN** button is turned off

Continued

### ■ Automatic cancellation

The beeper sounds and a message appears on the MID when ACC with LSF is automatically canceled. Any of these conditions may cause the ACC with LSF to automatically cancel:

- Your vehicle speed slows to 22 mph (35 km/h) or below when a detected vehicle goes out of the ACC with LSF range.
- Bad weather (rain, fog, snow, etc.)
- When the radar sensor in the front grille 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 VSA® indicator comes on.
- When the vehicle is stopped on a very steep slope.
- When you manually apply the parking brake.
- When the detected vehicle within the ACC with LSF range is too close to your vehicle.
- 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.
- When trailer stability assist is activated.

2 **Trailer Stability Assist\*** P. 317


The ACC with LSF automatic cancellation can be also triggered by the following causes.

#### 1 Automatic cancellation


Even though ACC with LSF has been automatically canceled, you can still resume the prior set speed. Wait until the condition that caused ACC with LSF to cancel improves, then press the **RES/+SET/-** switch down.

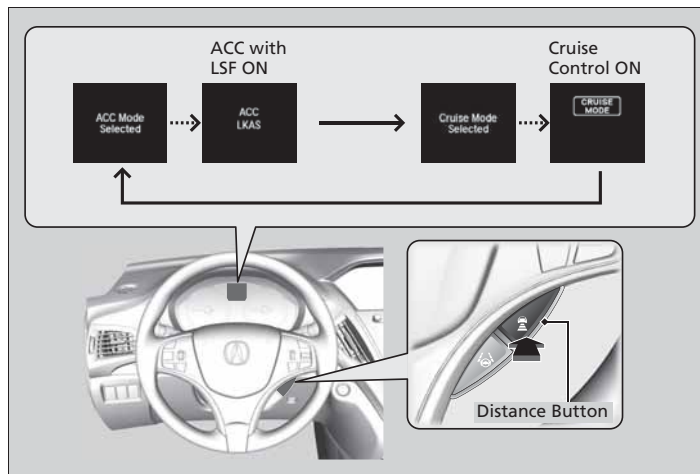


### To Switch ACC with LSF to Cruise Control

Press and hold the  (distance) button for one second.

**Cruise Mode Selected** appears on the MID for two seconds, and then the mode switches to **Cruise**.

To switch back to ACC with LSF, press and hold the  button again for one second.



### 1 To Switch ACC with LSF to Cruise Control

Always be aware which mode you are in. When you are driving in Cruise mode, be more cautious about keeping a safe distance from a vehicle ahead of you.

The current mode is displayed on the multi-information display.

2 **Switching the Display** P. 98

## Forward Collision Warning (FCW)\*

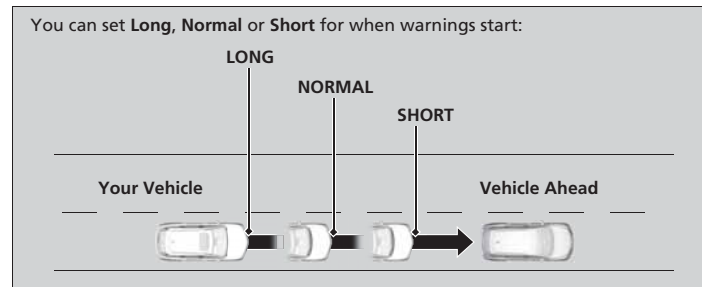
Alerts you when it detects the possibility of your vehicle colliding with the vehicle in front of yours.

If the system determines a collision is possible, it gives both visual and audible alerts.

- Take appropriate action to prevent a collision (apply the brakes, change lanes, etc.).

### How the system works

The system may give warnings of potential collisions when your vehicle speed is above 10 mph (15 km/h).



### Forward Collision Warning (FCW)\*

#### Important Safety Reminder

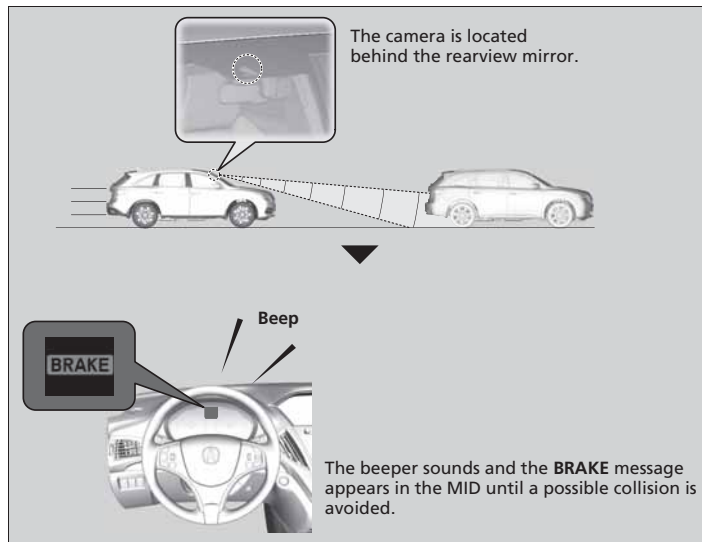
FCW cannot detect all objects ahead and may not detect a given object; accuracy of the system will vary based on weather, speed and other factors. FCW does not include a braking function. It is always your responsibility to safely operate the vehicle and avoid collisions.

You can change the Forward Collision Warning Distance setting or turn the system on and off.

- Customizable Features P. 107

The camera is shared with Lane Departure Warning (LDW).

- LDW Camera P. 351



1 Forward Collision Warning (FCW)\*

Never apply a film or attach any objects to the windshield that could obstruct the FCW camera's field of vision. Scratches, nicks, and other damage to the windshield within the FCW camera's field of vision can cause the system to operate abnormally. If this occurs, we recommend that you replace the windshield with a genuine Acura replacement windshield. Making even minor repairs within the camera's field of vision or installing an aftermarket replacement windshield may also cause the system to operate abnormally. After replacing the windshield, have a dealer recalibrate the camera. Proper calibration of the FCW camera is necessary for the system to operate properly.

\* Not available on all models

Continued

### ■ Automatic shutoff

FCW may automatically shut itself off and the **FCW** indicator comes and stays on when:

- The temperature inside the system is high.
- The windshield is blocked by dirt, mud, leaves, wet snow, etc.

Once the conditions that caused FCW to shut off improve or are addressed (e.g., cleaning), the system comes back on.

#### 1 Automatic shutoff

To help reduce the likelihood that high interior temperatures will cause the camera system to shut off, when parking, find a shady area or face the front of the vehicle away from the sun.

If you use a reflective sun shade, do not allow it to cover the camera housing. Covering the camera can concentrate heat on the camera.



If the **Can Not Operate: Camera Too Hot** message appears:

- Use the climate control system to cool down the interior and, if necessary, the defroster mode when windows are fogged.
- Start driving the vehicle to lower the windshield temperature, which cools down the area around the FCW camera.

### FCW Limitations

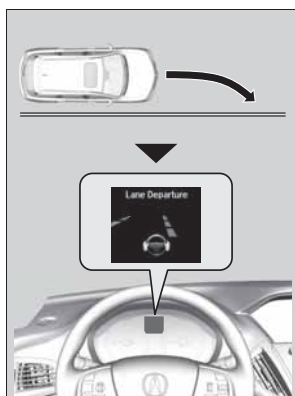
FCW may not activate or may not detect a vehicle in front of your vehicle, and may activate even when you are aware of a vehicle ahead of you, or when there is no vehicle ahead, under the following conditions.

Condition
<ul style="list-style-type: none"> <li>• The distance between your vehicle and the vehicle ahead of you is too short.</li> <li>• A vehicle cuts in front of you at a slow speed, and it brakes suddenly.</li> <li>• A vehicle suddenly crosses in front of you.</li> <li>• When either your vehicle or the vehicle ahead of you accelerates rapidly.</li> <li>• The vehicle ahead of you is a motorcycle, a small vehicle, or a unique vehicle such as a tractor.</li> <li>• When you drive off-road or on a mountain road, or curved and winding road for an extended period that makes it difficult for the sensor/camera to properly detect a vehicle in front of you.</li> <li>• When there are pedestrians or animals in front of your vehicle.</li> <li>• When you drive in bad weather (rain, fog, etc.).</li> <li>• A heavy load in the rear or modifications to the suspension tilts your vehicle.</li> <li>• An abnormal tire condition is detected (wrong tire size, flat tire, etc.).</li> <li>• When the windshield is blocked by dirt, mud, leaves, wet snow, etc.</li> <li>• When the temperature inside the system is high.</li> <li>• A sudden change between light and dark such as an entrance or exit of a tunnel.</li> <li>• You drive into the sunlight (e.g. at dawn or dusk).</li> <li>• When the windshield is dirty or cloudy.</li> <li>• When streetlights are perceived as the taillight of a vehicle in front of yours.</li> <li>• When driving at night, the vehicle ahead of you is running with either taillight bulb burned out.</li> <li>• When you drive in the shadows of trees, buildings, etc.</li> <li>• When your vehicle is towing a trailer.</li> </ul>

## Lane Departure Warning (LDW)\*

Alerts you when the system detects a possibility of your vehicle unintentionally crossing over left or right side lane markings.

### How the System Works



If your vehicle is getting too close to detected left or right side lane markings without a turn signal activated, LDW will give audible and visual alerts.

The beeper sounds and the **Lane Departure** message appears on the MID, letting you know that you need to take appropriate action.

### How the System Activates

The system begins to search for lane markings when all the following conditions are met:

- The vehicle is traveling between 40 and 90 mph (64 and 145 km/h).
- The vehicle is on a straight or slightly curved road.
- The turn signals are off.
- The brake pedal is not depressed.

### 1 Lane Departure Warning (LDW)\*

#### Important Safety Reminder

Like all assistance systems, LDW has limitations. Over-reliance on LDW may result in a collision. It is always your responsibility to keep the vehicle within your driving lane.

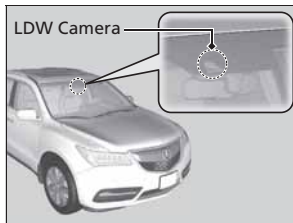
LDW only alerts you when lane drift is detected without a turn signal in use. LDW may not detect all lane markings or lane departures; accuracy will vary based on weather, speed and lane marker condition. It is always your responsibility to safely operate the vehicle and avoid collisions.

### 1 How the System Activates

LDW may automatically shut off and the **LDW** indicator comes and stays on.

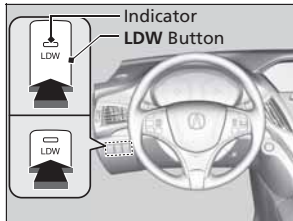
2 **Indicators** P. 81

### LDW Camera



The camera is located behind the rearview mirror.

### LDW On and Off



Press the **LDW** button to turn the system on and off.

- The indicator in the button comes on when the system is on.

### LDW Camera

Never apply a film or attach any objects to the windshield that could obstruct the LDW camera's field of vision. Scratches, nicks, and other damage to the windshield within the LDW camera's field of vision can cause the system to operate abnormally. If this occurs, we recommend that you replace the windshield with a genuine Acura replacement windshield. Making even minor repairs within the camera's field of vision or installing an aftermarket replacement windshield may also cause the system to operate abnormally. After replacing the windshield, have a dealer recalibrate the camera. Proper calibration of the LDW camera is necessary for the system to operate properly.

Do not place an object on the top of the instrument panel. It may reflect onto the windshield and prevent the system from detecting lane lines properly.

To help reduce the likelihood that high interior temperatures will cause the camera system to shut off, when parking, find a shady area or face the front of the vehicle away from the sun. Also, do not use a reflective sun shade that can concentrate heat on the camera.

If the **Can Not Operate: Camera Too Hot** message appears:

- Use the climate control system to cool down the interior and, if necessary, the defroster mode when windows are fogged.
- Start driving the vehicle to lower the windshield temperature, which cools down the area around the LDW camera.

### LDW Limitations

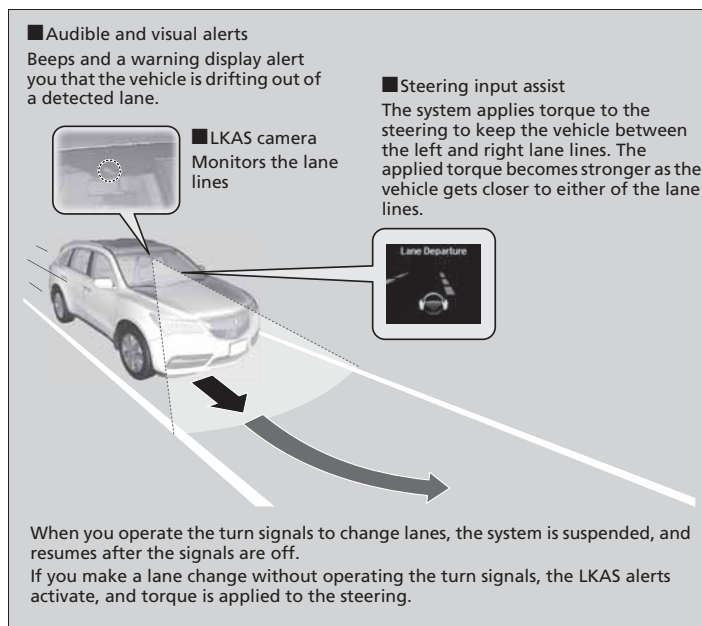
LDW may not activate or may not recognize lanes, and may activate even when keeping in the middle of a lane, under the following conditions.

Condition
<ul style="list-style-type: none"><li>• When you drive in bad weather (rain, fog, etc.).</li><li>• A heavy load in the rear or modifications to the suspension tilts your vehicle.</li><li>• An abnormal tire condition is detected (wrong tire size, flat tire, etc.).</li><li>• When the windshield is blocked by dirt, mud, leaves, wet snow, etc.</li><li>• When the temperature inside the system is high.</li><li>• A sudden change between light and dark such as an entrance or exit of a tunnel.</li><li>• You drive into the sunlight (e.g. at dawn or dusk).</li><li>• When the windshield is dirty or cloudy.</li><li>• When you drive in the shadows of trees, buildings, etc.</li><li>• When your vehicle is towing a trailer.</li><li>• When you drive on a wet road surface following another vehicle.<ul style="list-style-type: none"><li>↳ The camera may perceive the tire tracks in the water as lane lines.</li></ul></li><li>• When there is snow or wheel tracks on the side of the road.</li><li>• When the road has many repaired area or an erased lane line.</li><li>• When the vehicle is running over painted signs or crosswalk markings.</li><li>• When you drive in a lane with worn-out lane markings.</li></ul>



## Lane Keeping Assist System (LKAS)\*

Provides steering input to help keep the vehicle in the middle of a detected lane and provides audible and visual alerts if the vehicle is detected drifting out of its lane.



\* Not available on all models

Continued

### 1 Lane Keeping Assist System (LKAS)\*

#### Important Safety Reminders

The LKAS is for your convenience only. It is not a substitute for your vehicle control. The system does not work if you take your hands off the steering wheel or fail to steer the vehicle.

#### 2 Multi-Information Display (MID) Warning and Information Messages P. 96

Do not place an object on the top of the instrument panel. It may reflect onto the windshield and prevent the system from detecting lane lines properly.

The LKAS is convenient when it is used on freeways.

The LKAS may not work properly under the following conditions:

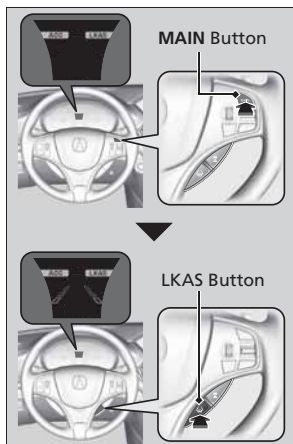
- Your tires are over or under inflated.
- Your tires or wheels are of varied size or construction.
- Your vehicle's suspension has been altered, changing the height of the vehicle.
- Your vehicle has heavy load in the trunk or on the rear seats.
- A compact spare tire\* is mounted.
- Driving on snowy or wet roads.
- Roadway lane markers are difficult to see due to weather (rain, snow, fog, etc.) or road conditions.
- Driving on a road with temporary lane markings.
- Multiple or varied lane markings are visible on the pavement due to road repairs or old lane markings.
- Roadway objects or structures are misinterpreted as lane markers.
- On non-freeway roadways and on freeways with many curves.

### When the System can be Used

The system can be used when the following conditions are met.

- The lane you are driving in has detectable lane markers on both sides, and your vehicle is in the center of the lane.
- The vehicle speed is between 45 and 90 mph (72 and 145 km/h).
- You are driving on a straight or slightly curved road.
- The turn signals are off.
- The brake pedal is not depressed.
- The wipers are not in continuous operation.

### How to activate the system



1. Press the **MAIN** button.
  - The LKAS is on in the MID. The system is ready to use.

2. Press the LKAS button.
  - Lane outlines appear on the multi-information display. The system is activated.

### 1 Lane Keeping Assist System (LKAS)\*

- Shadows of adjacent objects are parallel to lane markings.
- The windshield is dirty.
- Where the roadway has crossing or other lines (e.g., such as at an intersection).

### 1 LKAS camera

Never apply a film or attach any objects to the windshield that could obstruct the LKAS camera's field of vision. Scratches, nicks, and other damage to the windshield within the LKAS camera's field of vision can cause the system to operate abnormally. If this occurs, we recommend that you replace the windshield with a genuine Acura replacement windshield. Making even minor repairs within the camera's field of vision or installing an aftermarket replacement windshield may also cause the system to operate abnormally. After replacing the windshield, have a dealer recalibrate the camera. Proper calibration of the LKAS camera is necessary for the system to operate properly.

If the **Can Not Operate: Camera Too Hot** message appears:

- Use the climate control system to cool down the interior and, if necessary, the defroster mode when windows are fogged.
- Start driving the vehicle to lower the windshield temperature, which cools down the area around the LKAS camera.

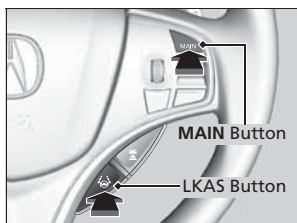
### 1 When the System can be Used

If the vehicle drifts toward either left or right lane line due to the system applying torque, turn off the LKAS and have your vehicle checked by a dealer.



3. Keep your vehicle near the center of the lane while driving.
  - The dotted outer lines change to solid ones once the system starts operating after detecting the left and right lane markings.

**To cancel**



To cancel the LKAS:  
Press the **MAIN** or LKAS button.

The LKAS is turned off every time you stop the engine, even if you turned it on the last time you drove the vehicle.

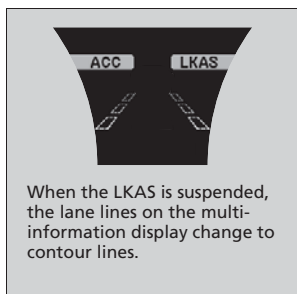
**When the System can be Used**

The LKAS temporarily deactivates when it fails to detect lane lines. When the system detects the lines again, it comes back on automatically.

**To cancel**

Pressing the **MAIN** button also turns ACC with LSF on and off.

Driving



■ **The system operation is suspended if you:**

- Set the wipers to continuous operation.
  - ↳ Turning the wipers off resumes the LKAS.
- Decrease the vehicle speed to 40 mph (64 km/h) or less.
  - ↳ Increasing the vehicle speed to 45 mph (72 km/h) or more resumes the LKAS.
- Depress the brake pedal.
  - ↳ The LKAS resumes and starts detecting the lane lines again once you release the brake pedal.

Driving

■ **The LKAS may automatically be suspended when:**

- The system fails to detect lane lines.
- The steering wheel is quickly turned.
- You fail to steer the vehicle.
- The vehicle is driven on a curved road over the speed limit.
- The camera temperature gets extremely high or low.

Once these conditions no longer exist, the LKAS automatically resumes.

### LKAS Limitations

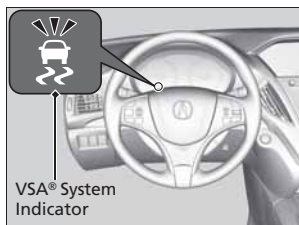
The system may not detect lane markings and the position of your vehicle properly under the following conditions.

Condition
<ul style="list-style-type: none"> <li>• The vehicle interior is reflected onto the front windshield.</li> <li>• Headlight lenses are dirty or the headlights are not properly adjusted.</li> <li>• The windshield is fogged.</li> <li>• Driving on snowy or wet roads.</li> <li>• The ambient brightness suddenly changes (e.g., at the entrance or exit of a tunnel).</li> <li>• You drive into the low sun (e.g., at dawn or dusk).</li> <li>• A strong light is reflected onto the roadway.</li> <li>• Roadway lane markers are difficult to see due to weather (rain, snow, fog, etc.) or road conditions.</li> <li>• Driving on a road with temporary lane markings.</li> <li>• Multiple or varied lane markings are visible on the roadway due to road repairs or old lane markings.</li> <li>• Roadway objects or structures are misinterpreted as lane markers.</li> <li>• There is little contrast between lane lines and the roadway surface.</li> <li>• The vehicle in front of you is driving near the lane lines.</li> <li>• Driving over bumps.</li> <li>• Where marked lanes merge or split.</li> <li>• Where the lane is extremely narrow, wide or changing.</li> <li>• Where the road is hilly or the vehicle is approaching the crest of a hill.</li> </ul>

## VSA® (Vehicle Stability Assist), aka ESC (Electronic Stability Control), System

VSA® helps to stabilize the vehicle during cornering if the vehicle turns more or less than what was intended. It also assists in maintaining traction on slippery surfaces. It does so by regulating engine output and selectively applying the brakes.

### VSA® Operation



When VSA® activates, you may notice that the engine does not respond to the accelerator. You may also notice some noise from the hydraulic system. You will also see the indicator blink.

### 1 VSA® (Vehicle Stability Assist), aka ESC (Electronic Stability Control), System

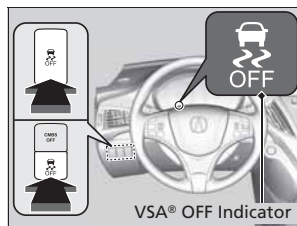
The VSA® may not function properly if tire type and size are mixed. Make sure to use the same size and type of tire, and the air pressures as specified.

When the VSA® indicator comes on and stays on while driving, there may be a problem with the system. While this may not interfere with normal driving, have your vehicle checked by a dealer immediately.

VSA® cannot enhance stability in all driving situations and does not control the entire braking system. You still need to drive and corner at speeds appropriate for the conditions and always leave a sufficient margin of safety.


The main function of the VSA® system is generally known as Electronic Stability Control (ESC). The system also includes a traction control function.

### VSA® On and Off



This button is on the driver side control panel. To turn the VSA® system on and off, press and hold it until you hear a beep.

VSA® will stop and the indicator will come on.

To turn it on again, press the  (VSA® OFF) button until you hear a beep.

VSA® is turned on every time you start the engine, even if you turned it off the last time you drove the vehicle.

#### 1 VSA® (Vehicle Stability Assist), aka ESC (Electronic Stability Control), System

Without VSA®, your vehicle will have normal braking and cornering ability, but it will not have VSA® traction and stability enhancement.


In certain unusual conditions when your vehicle gets stuck in shallow mud or fresh snow, it may be easier to free it with the VSA® temporarily switched off.

When the VSA® system is off, trailer stability assist is also off.

#### 2 Trailer Stability Assist\* P. 317

When the VSA® system is off, the traction control system is also off. You should only attempt to free your vehicle with the VSA® off if you are not able to free it when the VSA® is on.

Immediately after freeing your vehicle, be sure to switch VSA® on again. We do not recommend driving your vehicle with the VSA® and traction control systems switched off.

If the low tire pressure/TPMS indicator comes on or blinks, the VSA® system turns on automatically. In this case, you cannot turn the system off by pressing the  button.

You may hear a motor sound coming from the engine compartment while system checks are being performed immediately after starting the engine or while driving. This is normal.

\* Not available on all models

## Agile Handling Assist System

Lightly brakes each of the front and rear wheels, as needed, when you turn the steering wheel, and helps support the vehicle's stability and performance during cornering.

### 1 Agile Handling Assist System

The agile handling assist system cannot enhance stability in all driving situations. You still need to drive and corner at speeds appropriate for the conditions and always leave a sufficient margin of safety.

When the VSA® indicator comes on and stays on while driving, the agile handling assist system does not activate.

You may hear a sound coming from the engine compartment while the system is activated. This is normal.



## Blind Spot Information (BSI) System\*

Is designed to detect vehicles in specified alert zones adjacent to your vehicle, particularly in harder to see areas commonly known as "blind spots."

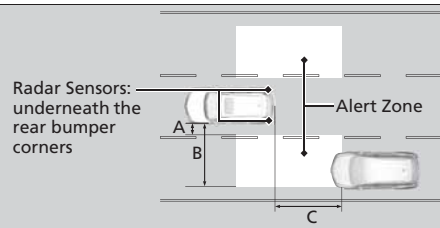
When the system detects vehicles approaching from behind in adjacent lanes, the appropriate indicator comes on for a few seconds, providing assistance when you change lanes.

### How the system works

- The shift lever is in **D**.
- Your vehicle speed is between 20 mph (32 km/h) and 100 mph (160 km/h)

#### Alert zone range

- A: Approx. 1.6 ft. (0.5 m)
- B: Approx. 10 ft. (3 m)
- C: Approx. 10 ft. (3 m)



\* Not available on all models

### 1 Blind Spot Information (BSI) System\*

## 3 WARNING

Failure to visually confirm that it is safe to change lanes before doing so may result in a crash and serious injury or death. Do not rely only on the blind spot information system when changing lanes.

Always look in your mirrors, to either side of your vehicle, and behind you for other vehicles before changing lanes.

#### Important Safety Reminder

Like all assistance systems, BSI has limitations. Over reliance on BSI may result in a collision.

The system is for your convenience only. Even if an object is within the alert zone, the following situations may occur.

- The BSI alert indicator may not come on due to obstruction (splashes, etc.) even without the **Blind Spot Not Available** MID appearing.
- The BSI alert indicator may come on even with the message appearing.

The BSI alert indicator may not come on under the following conditions:

- A vehicle does not stay in the alert zone for more than two seconds.
- A vehicle is parked in a side lane.
- The speed difference between your vehicle and the vehicle you are passing is greater than 6 mph (10 km/h).
- An object not detected by the radar sensors approaches or passes your vehicle.

### When the system detects a vehicle

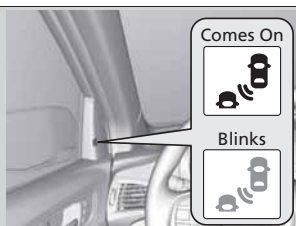
BSI Alert Indicator: Located near the outside rearview mirror on both sides.

#### Comes on when

- A vehicle enters the alert zone from behind to overtake you with a speed difference of no more than 31 mph (50 km/h) from your vehicle.
- You pass a vehicle with a speed difference of no more than 12 mph (20 km/h).

#### Blinks and the beeper sounds when

You move the turn signal lever in the direction of the detected vehicle. The beeper sounds three times.



### Blind Spot Information (BSI) System\*

You can change the setting for BSI.

#### 2 Customizable Features P. 107

Turn the system off when towing a trailer.

The system may not work properly for the following reasons:

- The added mass tilts the vehicle and changes the radar coverage.
- The trailer itself can be detected by the radar sensors, causing the BSI alert indicators to come on.

BSI may be adversely affected when:

- Objects (guard rails, poles, trees, etc.,) are detected.
- An object that does not reflect radio waves well, such as a motorcycle, is in the alert zone.
- Driving on a curved road.
- A vehicle is moving from a far lane to the adjacent lane.
- The system picks up external electrical interference.
- The rear bumper or the sensors have been improperly repaired or the rear bumper has been deformed.
- The orientation of the sensors has been changed.
- In bad weather (Heavy rain, snow, and fog).

For proper BSI use:

- Always keep the rear bumper corner area clean.
- Do not cover the rear bumper corner area with labels or stickers of any kind.
- Take your vehicle to a dealer if you need the rear bumper corner area or the radar sensors to be repaired, or the rear bumper corner area is strongly impacted.

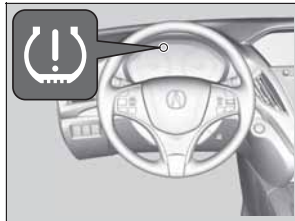
## Super Handling-All Wheel Drive™ (SH-AWD®)\*

The system controls and transfers varying amounts of engine torque to each wheel in accordance with the driving conditions.

SH-AWD® helps to enhance driving stability, and lets you handle situations like slippery surfaces, such as snow, sand, mud, and steep hills, better than when driving with two wheel drive. However, the system does not help to enhance braking. Be precautious about the following:

- It is still your responsibility to drive safely when you steer, accelerate, and apply brakes.
- Leave a sufficient margin when braking on slippery surfaces.

## Tire Pressure Monitoring System (TPMS)



Monitors the tire pressure while you are driving. If your vehicle's tire pressure becomes significantly low, the low tire pressure/TPMS indicator comes on and a message appears on the MID.

\* Not available on all models

Continued

### 1 Super Handling-All Wheel Drive™ (SH-AWD®)\*

#### NOTICE

Avoid continuously driving in sand or mud where a wheel is likely to spin out, and do not drive once the SH-AWD® indicator starts blinking. Driving continuously under such conditions can damage the system's torque distribution unit.

Do not drive through deep water.

The SH-AWD® system may not function properly if tire type and size are mixed. Make sure to use the same size and type of tire, and the air pressures as specified.

2 **Tire and Wheel Replacement** P. 423

### 1 Tire Pressure Monitoring System (TPMS)

Conditions such as low ambient temperature and altitude change directly affect tire pressure and can trigger the low tire pressure/TPMS indicator to come on.

2 **If the Low Tire Pressure/TPMS Indicator Comes On or Blinks** P. 468

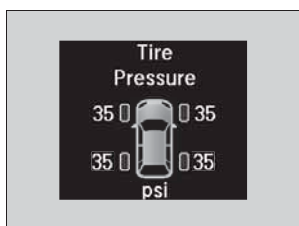
Tire pressure checked and inflated in:

- Warm weather can become under-inflated in colder weather.
- Cold weather can become over-inflated in warmer weather.

The low tire pressure/TPMS indicator will not come on as a result of over inflation.

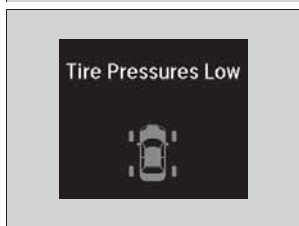
Driving

### Tire Pressure Monitor



To select the tire pressure monitor, set the power mode to ON, and roll the multi-function steering-wheel controls until you see the tire pressure screen.

The pressure for each tire is displayed in psi (U.S.) or kPa (Canada).



**Tire Pressures Low** is displayed when a tire has significantly low pressure. The specific tire is displayed on the screen.

### 1 Tire Pressure Monitor

The pressure displayed on the MID can be slightly different from the actual pressure as measured by a gauge. If there is a significant difference between the two values, or if the low tire pressure/TPMS indicator and the message on the MID do not go off after you have inflated the tire to the specified pressure, have the system checked by a dealer.

**Tire Pressure Monitor Problem** may appear if you drive with the compact spare tire, or there is a problem with the TPMS.

## Tire Pressure Monitoring System (TPMS) - Required Federal Explanation

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label.

(If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale



when one or more of your tires is significantly under-inflated.

Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure.

Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

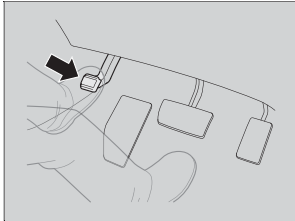
Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

## Braking

### Brake System

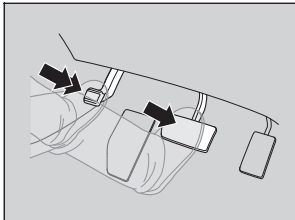
#### ■ Parking Brake

Use the parking brake to keep the vehicle stationary when parking.



**To apply:**

Depress the parking brake pedal down with your foot.



**To release:**

1. Depress the brake pedal.
2. Depress the parking brake.

#### 1 Parking Brake

**NOTICE**

Release the parking brake fully before driving. The rear brakes and axle can be damaged if you drive with the parking brake applied.

If you start driving without fully releasing the parking brake, a buzzer sounds as a warning, and **Release Parking Brake** appears on the MID.

Always apply the parking brake when parking.

Continued

367

## Foot Brake

Your vehicle is equipped with disc brakes at all four wheels. A vacuum power assist helps reduce the effort needed on the brake pedal. 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.

2 **Brake Assist System** P. 370

2 **Anti-lock Brake System (ABS)** P. 369

### 1 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, the brake pads need to be replaced. Have the vehicle checked by a dealer.

Constantly using the brake pedal while going down a long hill builds up heat, which reduces the brake effectiveness. Apply engine braking by taking your foot off the accelerator pedal and downshifting to a lower gear.

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.



## Anti-lock Brake System (ABS)

### ■ ABS

Helps prevent the wheels from locking up, and helps you retain steering control by pumping the brakes rapidly, much faster than you.

The electronic brake distribution (EBD) system, which is part of the ABS, also balances the front-to-rear braking distribution according to vehicle loading.

You should never pump the brake pedal. Let the ABS work for you by always keeping firm, steady pressure on the brake pedal. This is sometimes referred to as “stomp and steer.”

### ■ ABS operation

The brake pedal may pulsate slightly when the ABS is working. Keep holding the pedal firmly down. On dry pavement, you will need to press on the brake pedal very hard before the ABS activates. However, you may feel the ABS activate immediately if you are trying to stop on snow or ice.

When the vehicle speed goes under 6 mph (10 km/h), the ABS stops.

### 1 Anti-lock Brake System (ABS)

#### NOTICE

The ABS may not function correctly if you use an incorrect tire type and size.

When the **ABS** indicator comes on while driving, there may be a problem with the system. While normal braking is not affected, there is a possibility of the ABS not operating. Have the vehicle checked by a dealer immediately.

The ABS does not reduce the time or distance it takes to stop the vehicle. It only helps with steering control during hard braking.

In the following cases, your vehicle may need more stopping distance than a vehicle without the ABS:

- When driving on rough road surfaces, including when driving on uneven surfaces, such as gravel or snow.
- When tire chains are installed.

You may hear a motor sound coming from the engine compartment while system checks are being performed immediately after starting the engine or while driving. This is normal.

## Brake Assist System

Designed to assist the driver by generating greater braking force when you depress the brake pedal hard during emergency braking.

### ■ Brake assist system operation

Press the brake pedal firmly for more powerful braking.

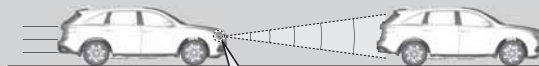
When brake assist operates, the pedal may wiggle slightly and an operating noise may be heard. This is normal. Keep holding the brake pedal firmly down.

## Collision Mitigation Braking System™ (CMBS™)\*

Can assist you when there is a possibility of your vehicle colliding with a vehicle detected in front of yours. The CMBS™ is designed to alert you when a potential collision is determined, as well as to reduce your vehicle speed when a collision is deemed unavoidable to help minimize collision severity.

### ■ How the system works

A radar sensor starts to monitor if there is a vehicle in front of you when your vehicle speed is above 10 mph (15 km/h).



The radar sensor is in the front grille.



The CMBS™ activates when the speed difference between your vehicle and a vehicle detected in front of you becomes more than 10 mph (15 km/h) with a chance of a collision.

### 1 Collision Mitigation Braking System™ (CMBS™)\*

#### Important Safety Reminder

The CMBS™ is designed to reduce the severity of an unavoidable collision. It does not prevent a collision nor stop the vehicle automatically. It is still your responsibility to operate the brake pedal and steering wheel appropriately according to the driving conditions.

The CMBS™ may not activate or may not detect a vehicle in front of your vehicle under the following conditions:

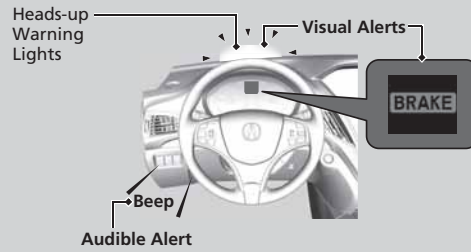
- The distance between your vehicle and the vehicle ahead of you is too short.
- A vehicle cuts in front of you at a slow speed, and it brakes suddenly.
- When you accelerate rapidly and approach the vehicle ahead of you at high speed.
- The vehicle ahead of you is a motorcycle or other small vehicle.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

\* Not available on all models

■ When the system activates

The system provides visual and audible alerts of a possible collision, and stops the alerts if the collision is avoided.

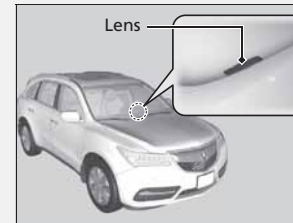
- Take appropriate action to prevent a collision (apply the brakes, change lanes, etc.)



Driving

1 When the system activates

The heads-up warning uses a lens located at the front end of the dashboard. Do not cover the lens or spill any liquid on it.

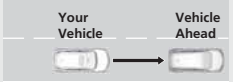





### Collision Alert Stages

The system has three alert stages for a possible collision. However, depending on the circumstances, the CMBS™ may not go through all of the stages before initiating the last stage.

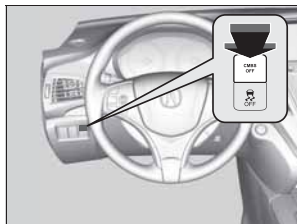
Distance between vehicles		CMBS™			
		The radar sensor detects a vehicle	E-pretensioner	Audible & Visual WARNINGS	Braking
Stage one	<p>The diagram shows two vehicles: 'Your Vehicle' on the left and 'Vehicle Ahead' on the right. An arrow points from 'Your Vehicle' to 'Vehicle Ahead'. Three vertical dashed lines indicate distance markers: 'Long' (furthest), 'Normal' (middle), and 'Short' (closest). A horizontal line is drawn at the 'Short' distance level.</p>	There is a risk of a collision with the vehicle ahead of you.	—	<p>You can change the distance between vehicles at which visual alerts will display (<b>Long/Normal/Short</b>).</p> <p>2 Customizable Features P. 107</p> <p>When your setting is:</p> <ul style="list-style-type: none"> <li>• <b>Long:</b> Visual alerts flash twice at <b>Long</b> distance. When the <b>Short</b> distance is reached, visual and audible alerts are provided.</li> <li>• <b>Normal:</b> Visual alerts flash twice at the <b>Normal</b> distance. When the <b>Short</b> distance is reached, visual and audible alerts are provided.</li> <li>• <b>Short:</b> Visual and audible alerts are provided immediately.</li> </ul>	—

Driving

Distance between vehicles		CMBS™			
		The radar sensor detects a vehicle	E-pretensioner	Audible & Visual WARNINGS	Braking
Stage two		The risk of a collision has increased, time to respond is reduced.	Retracts the driver's seat belt gently a few times, providing a physical warning. 	Visual and audible alerts.	Lightly applied
Stage three		The CMBS™ determines that a collision is unavoidable.	Forcefully tightens driver and front passenger seat belts. 		Forcefully applied

Driving

### CMBS™ On and Off



Press this button for about one second to turn on and off the system.

When the CMBS™ is off:

- The beeper sounds.
- The CMBS™ indicator in the instrument panel comes on.
- A message on the MID reminds you that the system is off.

The CMBS™ is in the previously selected ON or OFF setting each time you start the engine.

### 1 Collision Mitigation Braking System™ (CMBS™)\*

The CMBS™ may automatically shut off, and the CMBS™ indicator will come and stay on when:

- You drive off-road or on a mountain road for an extended period.
- You drive with the parking brake applied.
- You drive in bad weather (rain, fog, snow, etc.)
- The radar sensor cover is blocked by dirt, mud, dry leaves, wet snow, etc.
- An abnormal tire condition is detected (wrong tire size, flat tire, etc.)

Once the conditions that caused the CMBS™ to shut off improve, the system comes back on.

\* Not available on all models

Continued

### ■ With Little Chance of a Collision

The CMBS™ may activate even when you are aware of a vehicle ahead of you, or when there is no vehicle ahead. Some examples of this are:

#### ■ When Passing

Your vehicle approaches another vehicle ahead of you and you change lanes to pass.

#### ■ At an intersection

Your vehicle approaches or passes another vehicle that is making a left or right turn.

#### ■ Through a low bridge at high speed

You drive under a low or narrow bridge at high speed.

#### ■ Speed bumps, road work sites, train tracks, roadside objects, etc.

You drive over speed bumps, steel road plates, etc., or your vehicle approaches train tracks or roadside objects [such as a traffic sign and guard rail] on a curve.

### 1 Collision Mitigation Braking System™ (CMBS™)\*

Avoid the following conditions that may cause the radar aim to be temporarily out of range and prevent the CMBS™ from working properly.

- A heavy load in the rear or modifications to the suspension tilts your vehicle.
- The tire pressures are not correct, the tire sizes are incorrect, the tire types are different, and/or the tires are not in good condition.

For the CMBS™ to work properly:

- Always keep the radar sensor cover clean.
- Never use chemical solvents or polishing powder for cleaning the sensor cover. Clean it with water or a mild detergent.

Do not put a sticker on the emblem or replace the emblem.

Take your vehicle to a dealer if you need the radar sensor to be repaired, or removed, or the radar sensor cover is strongly impacted.



## Parking Your Vehicle

### When Stopped

1. Depress the brake pedal firmly with the shift lever in **D** .
2. Firmly apply the parking brake.
3. Move the shift lever from **D** to **P** .
4. Turn off the engine.

Always set the parking brake firmly, in particular if you are parked on an incline.

#### 1 Parking Your Vehicle

Do not park your vehicle near flammable objects, such as dry grass, oil, or timber. Heat from the exhaust can cause a fire.

Raise the wiper arms when snow is expected.

#### 1 When Stopped

##### NOTICE

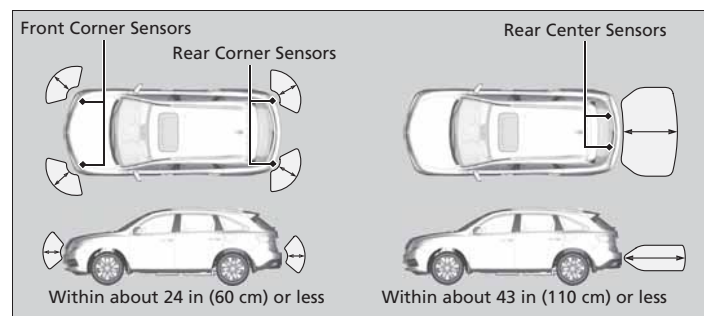
The following can damage the transmission:

- Depressing the accelerator and brake pedals simultaneously.
- Holding the vehicle in place when facing uphill by depressing the accelerator pedal.
- Moving the shift lever into **P** before the vehicle stops completely.

## Parking Sensor System \*

The corner and center sensors monitor obstacles near your vehicle. The beeper and audio/information screen let you know the approximate distance between your vehicle and the obstacle.

### ■ The sensor location and range



Driving

### 1 Parking Sensor System \*

Even when the system is on, always confirm if there is no obstacle near your vehicle before parking.

The system may not work properly when:

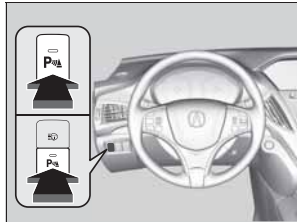
- The sensors are covered with snow, ice, mud or dirt, etc.
- The vehicle is on uneven surface, such as grass, bumpy road, or a hill.
- The vehicle has been out in hot or cold weather.
- The system is affected by some electronic devices that generate ultrasonic waves.
- Driving in bad weather.

The system may not sense:

- Thin or low objects.
- Sonic-absorptive materials, such as snow, cotton, or sponge.
- Objects directly under the bumper.

Do not put any accessories on or around the sensors.

■ **Parking sensor system on and off**

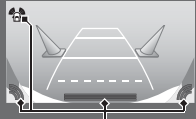


With the power mode in ON, press the parking sensor system button to turn on or off the system. The indicator in the button comes on and the beeper sounds when the system is on.

The rear center and corner sensors start to detect an obstacle when the shift lever is in R , and the vehicle speed is less than 5 mph (8 km/h).

The front corner sensors start to detect an obstacle when the shift lever is in any position other than P , and the vehicle speed is less than 5 mph (8 km/h).

■ When the distance between your vehicle and obstacles behind becomes shorter

Length of the intermittent beep	Distance between the Bumper and Obstacle		Indicator	Audio/information screen
	Corner Sensors	Center Sensors		
Moderate	—	Rear: About 43-24 in (110-60 cm)	Blinks in Yellow*1	 <p>Indicators light where the sensor detects an obstacle</p>
Short	About 24-18 in (60-45 cm)	About 24-18 in (60-45 cm)	Blinks in Amber	
Very short	About 18-14 in (45-35 cm)	About 18-14 in (45-35 cm)		
Continuous	About 14 in (35 cm) or less	About 14 in (35 cm) or less	Blinks in Red	

\*1: At this stage, only the center sensors detect obstacles.

### ■ Turning off All Rear Sensors

1. Make sure that the parking sensor system is not activated. Set the power mode to VEHICLE OFF (LOCK).
2. Press and hold the parking sensor system button, and set the power mode to ON.
3. Keep pressing the button for 10 seconds. Release the button when the indicator in the button flashes.
4. Press the button again. The indicator in the button goes off.
  - ▢ The beeper sounds twice. The rear sensors are now turned off.

To turn the rear sensors on again, follow the above procedure. The beeper sounds three times when the rear sensors come back on.

#### 1 Turning off All Rear Sensors

When you shift to R, the indicator in the parking sensor system button blinks as a reminder that the rear sensors have been turned off.

## Multi-View Rear Camera\*

### About Your Multi-View Rear Camera

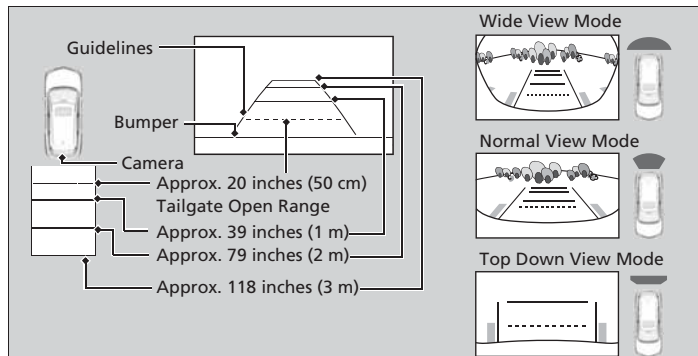
#### Models with navigation system

For models with navigation system, see Navigation System Manual.

#### Models without navigation system

The audio/information screen can display your vehicle's rear view. The display automatically changes to a rear view when the shift lever is moved to R.

#### Multi-View Rear Camera Display Area



You can view three different camera angles on the rearview display. Press the selector knob to switch the angle.

If the last used viewing mode is Wide or Normal, the same mode is selected the next time you shift into R. If Top view was last used, Wide mode is selected.

#### 1 About Your Multi-View Rear Camera

The rear camera view is restricted. You cannot see the corner ends of the bumper or what is underneath the bumper. Its unique lens also makes objects appear closer or farther than they actually are.

Visually confirm that it is safe to drive before backing up. Certain conditions (such as weather, lighting, and high temperatures) may also restrict the rear view. Do not rely on the rearview display which does not give you all information about conditions at the back of your vehicle.

If the camera lens is covered with dirt or moisture, use a soft, moist cloth to keep the lens clean and free of debris.

## Refueling

### Fuel Information

#### ■ Fuel recommendation

##### Unleaded premium gasoline, pump octane number 91 or higher

Use of lower octane gasoline can cause occasional metallic knocking noise in the engine and will result in decreased engine performance.

Use of gasoline with a pump octane less than 87 can lead to engine damage.

#### ■ Top tier detergent gasoline

Because the level of detergency and additives in gasoline vary in the market, Acura endorses the use of "TOP TIER Detergent Gasoline" where available to help maintain the performance and reliability of your vehicle. TOP TIER Detergent Gasoline meets a new gasoline standard jointly established by leading automotive manufacturers to meet the needs of today's advanced engines.

Qualifying gasoline retailers will, in most cases, identify their gasoline as having met "TOP TIER Detergent Gasoline" standards at the retail location. This fuel is guaranteed to contain the proper level of detergent additives and be free of metallic additives. The proper level of detergent additives, and absence of harmful metallic additives in gasoline, help avoid build-up of deposits in your engine and emission control system.

For further important fuel-related information for your vehicle, or on information on gasoline that does not contain MMT, visit Acura Owners at [owners.acura.com](http://owners.acura.com). In Canada, visit [www.acura.ca](http://www.acura.ca) for additional information on gasoline. For more information on top tier gasoline, visit [www.toptiergas.com](http://www.toptiergas.com).

#### ■ Fuel tank capacity: 19.5 US gal (74 liters)

#### 1 Fuel Information

##### NOTICE

We recommend quality gasoline containing detergent additives that help prevent fuel system and engine deposits. In addition, in order to maintain good performance, fuel economy, and emissions control, we strongly recommend the use of gasoline that does NOT contain harmful manganese-based fuel additives such as MMT, if such gasoline is available.

Use of gasoline with these additives may adversely affect performance, and cause the malfunction indicator lamp on your instrument panel to come on. If this happens, contact a dealer for service. Some gasoline today is blended with oxygenates such as ethanol. Your vehicle is designed to operate on oxygenated gasoline containing up to 15% ethanol by volume. Do not use gasoline containing methanol. If you notice any undesirable operating symptoms, try another service station or switch to another brand of gasoline.

## How to Refuel



1. Stop your vehicle with the service station pump on the left side of the vehicle in the rear.
2. Turn off the engine.
3. Press the fuel fill door release button.
  - ⌋ The fuel fill door opens.
4. Remove the fuel fill cap slowly. If you hear a release of air, wait until this stops, then turn the knob slowly to open the fuel fill cap.
5. Place the fuel fill cap in the holder.
6. Insert the filler nozzle fully.
  - ⌋ When the tank is full, the filler nozzle will click off automatically. This leaves space in the fuel tank in case the fuel expands with a change in the temperature.
7. After filling, replace the fuel fill cap, tightening it until you hear it click at least once.
  - ⌋ Shut the fuel fill door by hand.

### 1 How to Refuel

## 3 WARNING

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.

- Stop the engine, and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

The filler nozzle automatically stops to leave space in the fuel tank so that fuel does not overflow as a result of changes in air temperature.

If the fuel filler nozzle keeps turning off when the tank is not full, there may be a problem with the pump's fuel vapor recovery system. Try filling at another pump. If this does not fix the problem, consult a dealer.

Do not continue to add fuel after the nozzle has automatically stopped. Additional fuel can exceed the full tank capacity.



## Fuel Economy

### Improving Fuel Economy

Fuel economy depends on several conditions, including driving conditions, your driving habits, the condition of your vehicle, and loading. Depending on these and other conditions, you may or may not achieve the rated fuel economy of this vehicle.

#### Maintenance and Fuel Economy

You can optimize your fuel economy with proper maintenance of your vehicle. Always maintain your vehicle in accordance with the messages displayed on the MID.

- Use the recommended viscosity engine oil, displaying the API Certification Seal.
- Maintain the specified tire pressure.
- Do not load the vehicle with excess cargo.
- Keep your vehicle clean. A buildup of snow or mud on your vehicle's underside adds weight and increases wind resistance.

#### 1 Improving Fuel Economy

Direct calculation is the recommended method to determine actual fuel consumed while driving.

Miles driven	÷	Gallons of fuel	=	Miles per Gallon		
100	×	Liter	÷	Kilometers	=	L per 100 km

In Canada, posted fuel economy numbers are established following a simulated test. For more information on how this test is performed, please visit <http://oee.nrcan.gc.ca/>

## Accessories and Modifications

### Accessories

When installing accessories, check the following:

- Do not install accessories on the windshield. They can obstruct your view and delay your reaction to driving conditions.
- Do not install any accessories over areas marked SRS Airbag, on the sides or backs of the front seats, on front or side pillars, or near the side windows. Accessories installed in these areas may interfere with proper operation of the vehicle's airbags or may be propelled into you or another occupant if the airbags deploy.
- Be sure electronic accessories do not overload electrical circuits or interfere with proper operation of your vehicle.
  - **Fuses** P. 469
- Before installing any electronic accessory, have the installer contact a dealer for assistance. If possible, have a dealer inspect the final installation.

### Modifications

Do not modify your vehicle or use non-Acura components that can affect its handling, stability, and reliability.

Overall vehicle performance can be affected. Always make sure all equipment is properly installed and maintained, and that it meets federal, state, province, territory, and local regulations.

1 Accessories and Modifications

### 3 WARNING

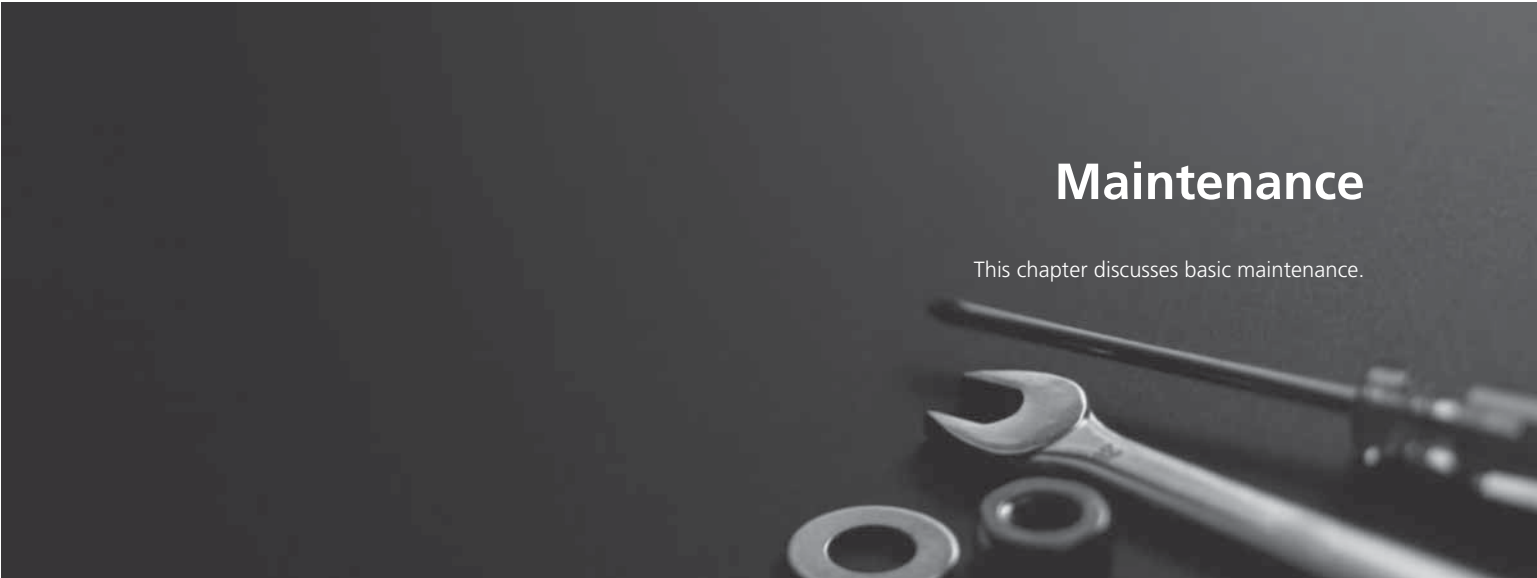
Improper accessories or modifications can affect your vehicle's handling, stability, and performance, and cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding accessories and modifications.

Acura Genuine accessories are recommended to ensure proper operation on your vehicle.

# Maintenance

This chapter discusses basic maintenance.



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\* Not available on all models

## Before Performing Maintenance

### Inspection and Maintenance

For your safety, perform all listed inspections and maintenance to keep your vehicle in good condition. If you become aware of any abnormality (noise, smell, insufficient brake fluid, oil residue on the ground, etc.), have your vehicle inspected by a dealer. (Note, however, that service at a dealer is not mandatory to keep your warranties in effect.) Refer to the separate maintenance booklet for detailed maintenance and inspection information.

#### Types of Inspection and Maintenance

##### Daily inspections

Perform inspections before long distance trips, when washing the vehicle, or when refueling.

##### Periodic inspections

- Check the brake fluid level monthly.
  - 2 **Checking the Brake Fluid** P. 406
- Check the tire pressure monthly. Examine the tread for wear and foreign objects.
  - 2 **Checking and Maintaining Tires** P. 417
- Check the operation of the exterior lights monthly.
  - 2 **Replacing Light Bulbs** P. 407
- Check the condition of the wiper blades at least every six months.
  - 2 **Checking and Maintaining Wiper Blades** P. 413

#### 1 Inspection and Maintenance

##### U.S. models

**Maintenance, replacement, or repair of emissions control devices and systems may be done by any automotive repair establishment or individuals using parts that are "certified" to EPA standards.**

According to state and federal regulations, failure to perform maintenance on the maintenance main items marked with # will not void your emissions warranties. However, all maintenance services should be performed in accordance with the intervals indicated by the multi-information display (MID).

2 **Maintenance Service Items** P. 393

If you want to perform complex maintenance tasks that require more skills and tools, you can purchase a subscription to the Service Express website at [www.techinfo.honda.com](http://www.techinfo.honda.com).

2 **Authorized Manuals** P. 489

If you want to perform maintenance yourself, make sure that you have the necessary tools and skills first. After performing maintenance, update the records in the separate maintenance booklet.

## Safety When Performing Maintenance

Some of the most important safety precautions are given here. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

### Maintenance Safety

- To reduce the possibility of fire or explosion, keep cigarettes, sparks, and flames away from the battery and all fuel related parts.
- Never leave rags, towels, or other flammable objects under the hood.
  - ⌵ Heat from the engine and exhaust can ignite them causing a fire.
- To clean parts, use a commercially available degreaser or parts cleaner, not gasoline.
- Wear eye protection and protective clothing when working with the battery or compressed air.
- Engine exhaust contains carbon monoxide, which is poisonous and can kill you.
  - ⌵ Only operate the engine if there is sufficient ventilation.

### Vehicle Safety

- The vehicle must be in a stationary condition.
  - ⌵ Make sure your vehicle is parked on level ground, the parking brake is set, and the engine is off.
- Be aware that hot parts can burn you.
  - ⌵ Make sure to let the engine and exhaust system cool thoroughly before touching vehicle parts.
- Be aware that moving parts can injure you.
  - ⌵ Do not start the engine unless instructed, and keep your hands and limbs away from moving parts.

#### 1 Safety When Performing Maintenance

### 3 WARNING

Improperly maintaining this vehicle or failing to correct a problem before driving can cause a crash in which you can be seriously hurt or killed.

Always follow the inspection and maintenance recommendations according to the schedules in this owner's manual.

### 3 WARNING

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed.

Always follow the procedures and precautions in this owner's manual.

## Parts and Fluids Used in Maintenance Service

The use of Acura genuine parts and fluids is recommended when maintaining and servicing your vehicle. Acura genuine parts are manufactured according to the same high quality standards used in Acura vehicles.



Maintenance

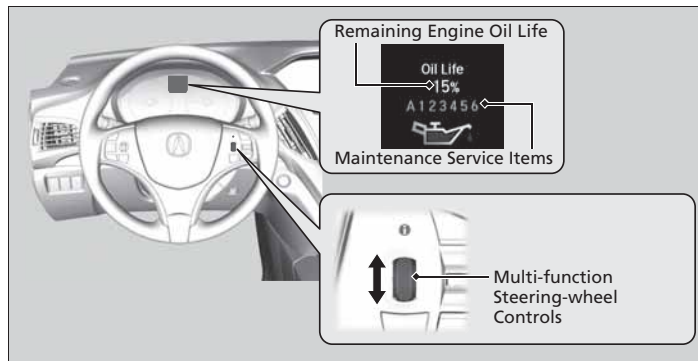
## Maintenance Minder™

Maintenance items, which should be serviced at the same time that you replace the engine oil, appear on the MID. You can view them on the engine oil life screen at any time.

### To Use Maintenance Minder™

#### ■ Displaying the Engine Oil Life and Maintenance Items

1. Set the power mode to ON.
2. Roll the multi-function steering-wheel controls until the engine oil life appears on the MID.



#### 1 Displaying the Engine Oil Life and Maintenance Items

Based on the engine operating conditions, the remaining engine oil life is calculated and displayed as a percentage.








Displayed Engine Oil Life (%)	Calculated Engine Oil Life (%)
100	100 to 91
90	90 to 81
80	80 to 71
70	70 to 61
60	60 to 51
50	50 to 41
40	40 to 31
30	30 to 21
20	20 to 16
15	15 to 11
10	10 to 6
5	5 to 1
0	0

There is a list of maintenance main and sub items you can view on the MID.

- 2 **Maintenance Service Items** P. 393

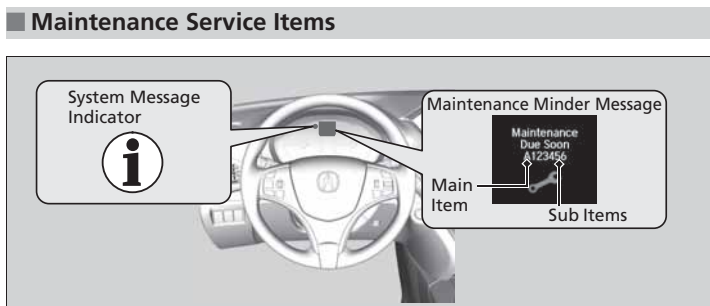
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### Maintenance Minder Messages on the Multi-Information Display (MID)

Maintenance Message	Oil Life Display	Explanation	Information
<b>Maintenance Due Soon</b> 	15% 	The remaining engine oil life is 15 to 16 percent. Once you switch the display by rolling the multi-function steering-wheel controls, this message will go off.	The engine oil is approaching the end of its service life, and the maintenance items should be inspected and serviced soon.
<b>Maintenance Due Now</b> 	5% 	The remaining engine oil life is 5 to 1 percent. Roll the multi-function steering-wheel controls to switch to another display.	The engine oil has almost reached the end of its service life, and the maintenance items should be inspected and serviced as soon as possible.
<b>Maintenance Past Due</b> 	Negative Distance U.S. Canada  	The remaining engine oil life has passed its service life, and a negative distance appears after driving over 10 miles (U.S. models) or 10 km (Canadian models). Roll the multi-function steering wheel control to switch to another display.	The engine oil life has passed. The maintenance items must be inspected and serviced immediately.

The system message indicator ⓘ comes on along with the Maintenance Minder message.





Maintenance Main Items	
A	<ul style="list-style-type: none"> <li>• Replace engine oil*<sup>1</sup></li> </ul>
B	<ul style="list-style-type: none"> <li>• Replace engine oil*<sup>1</sup> and oil filter</li> <li>• Inspect front and rear brakes, service as necessary</li> <li>• Check parking brake adjustment</li> <li>• Inspect tie rod ends, steering gearbox, and boots</li> <li>• Inspect suspension components</li> <li>• Inspect driveshaft boots</li> <li>• Inspect brake hoses and lines (Including ABS/VSA)</li> <li>• Inspect all fluid levels and condition of fluids</li> <li>• Inspect exhaust system<sup>#</sup></li> <li>• Inspect fuel lines and connections<sup>#</sup></li> </ul>

\*1: If the message **SERVICE** does not appear more than 12 months after the display is reset, change the engine oil every year.  
 #: See information on maintenance and emissions warranty.  
 \*2: If you drive in dusty conditions, replace the air cleaner element every 15,000 miles (24,000 km).  
 \*3: If you drive primarily in urban areas that have high concentrations of soot in the air from industry and from diesel-powered vehicles, replace the dust and pollen filter every 15,000 miles (24,000 km).

1 Maintenance Service Items	
	<ul style="list-style-type: none"> <li>• Independent of the Maintenance Minder information, replace the brake fluid every 3 years.</li> <li>• Inspect idle speed every 160,000 miles (256,000 km).</li> <li>• Adjust the valves during services A, B, 1, 2, or 3 if they are noisy.</li> </ul>
	<p>Driving in mountainous areas at very low vehicle speeds or trailer towing results in higher level of mechanical (Shear) stress to fluid. This requires differential fluid changes more frequently than recommended by the Maintenance Minder. If you regularly drive your vehicle under these conditions, have the differential fluid changed at 7,500 miles (12,000km), then every 15,000 miles (24,000 km).</p>

Maintenance Sub Items	
1	<ul style="list-style-type: none"> <li>• Rotate tires</li> </ul>
2	<ul style="list-style-type: none"> <li>• Replace air cleaner element*<sup>2</sup></li> <li>• Replace dust and pollen filter*<sup>3</sup></li> <li>• Inspect drive belt</li> </ul>
3	<ul style="list-style-type: none"> <li>• Replace transmission and transfer fluid*</li> </ul>
4	<ul style="list-style-type: none"> <li>• Replace spark plugs</li> <li>• Replace timing belt and inspect water pump*<sup>4</sup></li> <li>• Inspect valve clearance</li> </ul>
5	<ul style="list-style-type: none"> <li>• Replace engine coolant</li> </ul>
6	<ul style="list-style-type: none"> <li>• Replace rear differential fluid*</li> </ul>

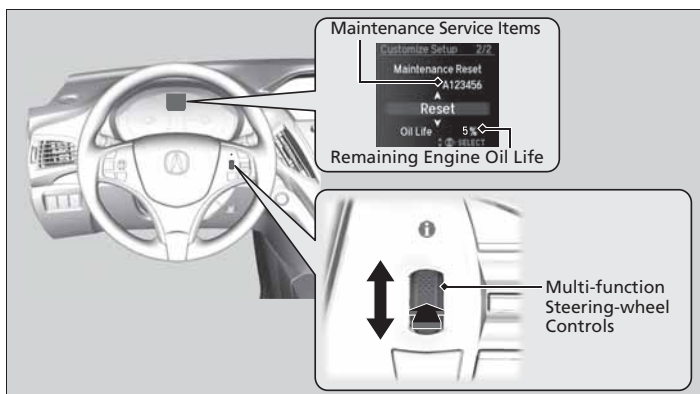
\*4: If you drive regularly in very high temperatures (over 110°F, 43°C), in very low temperatures (under -20°F, -29°C), or tow a trailer, replace every 60,000 miles/100,000 km.

\* Not available on all models

Continued

## Resetting the Display

Reset the engine oil life display if you have performed the maintenance service.



1. Set the power mode to ON.
2. Go to the **Maintenance Info.** group.
  - ⌵ **Customized Features** P. 104
3. Push the multi-function steering-wheel controls.
  - ⌵ The oil life reset mode is displayed on the MID.
4. Select **Reset** with the multi-function steering-wheel controls, then push the multi-function steering wheel control.
  - ⌵ The displayed maintenance items disappear, and the engine oil life display returns to **100%**.
  - ⌵ To cancel the oil life reset mode, select **Cancel**, then push the multi-function steering-wheel controls.

## 1 Resetting the Display

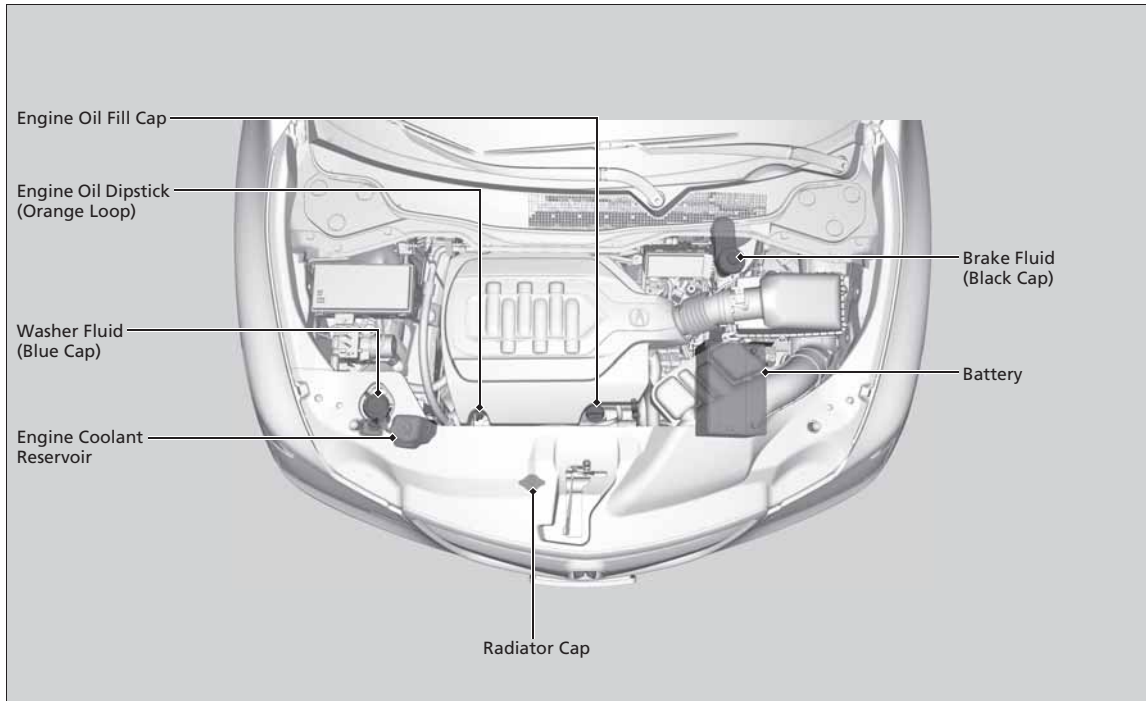
### NOTICE

Failure to reset the engine oil life after a maintenance service results in the system showing incorrect maintenance intervals, which can lead to serious mechanical problems.

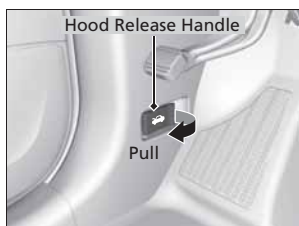
The dealer will reset the engine oil life display after completing the required maintenance service. If someone other than a dealer performs maintenance service, reset the engine oil life display yourself.

## Maintenance Under the Hood

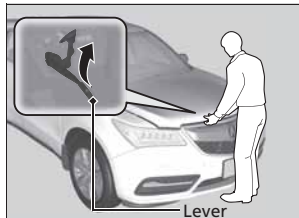
### Maintenance Items Under the Hood



## Opening the Hood



1. Park the vehicle on a level surface, and set the parking brake.
2. Pull the hood release handle under the lower left corner of the dashboard.
  - ⌵ The hood will pop up slightly.



3. Push up the hood latch lever in the center of the hood to release the lock mechanism, and open the hood.



4. Lift the hood up most of the way.
  - ⌵ The hydraulic supports will lift it up the rest of the way and hold it up.

When closing, lower it to approximately 12 inches (30 cm), then press down firmly with your hands.

### 1 Opening the Hood

#### NOTICE

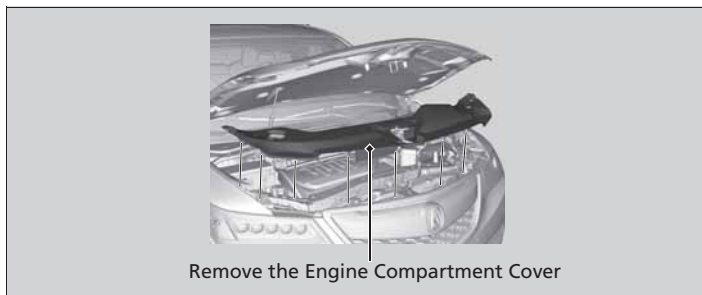
Do not open the hood when the wiper arms are raised. The hood will strike the wipers, and may damage either the hood or the wipers.

When closing the hood, check that the hood is securely latched.

If the hood latch lever moves stiffly, or if you can open the hood without lifting the lever, the latch mechanism should be cleaned and lubricated.

## Engine Compartment Cover

The component parts in the engine compartment are protected by a cover. You may need to remove the cover when you perform certain maintenance work. To remove the cover:



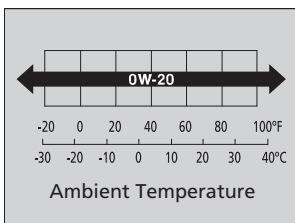
## Recommended Engine Oil

- **Genuine Acura Motor Oil**
- **Premium-grade 0W-20 detergent oil with an API Certification Seal on the container.**



Oil is a major contributor to your engine's performance and longevity. If you drive the vehicle with insufficient or deteriorated oil, the engine may fail or be damaged.

This seal indicates the oil is energy conserving and that it meets the American Petroleum Institute's latest requirements.



Use a Genuine Acura Motor Oil or another commercial engine oil of suitable viscosity for the ambient temperature as shown.

### ■ Synthetic oil

You may also use synthetic motor oil if it is labeled with the API Certification Seal and is the specified viscosity grade.

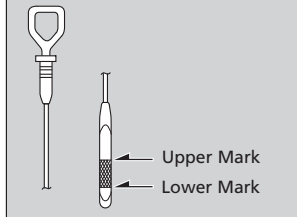
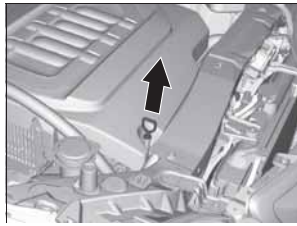
### 1 Recommended Engine Oil

#### Engine Oil Additives

Your vehicle does not require oil additives. In fact, they may adversely affect the engine performance and durability.

## Oil Check

We recommend that you check the engine oil level every time you refuel. Park the vehicle on level ground. Wait approximately three minutes after turning the engine off before you check the oil.

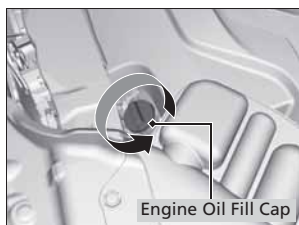


1. Remove the dipstick (orange loop).
2. Wipe the dipstick with a clean cloth or paper towel.
3. Insert the dipstick back all the way into its hole.
4. Remove the dipstick again, and check the level. It should be between the upper and lower marks. Add oil if necessary.

### 1 Oil Check

If the oil level is near or below the lower mark, slowly add oil being careful not to overfill.

## Adding Engine Oil



1. Unscrew and remove the engine oil fill cap.
2. Add oil slowly.
3. Reinstall the engine oil fill cap, and tighten it securely.
4. Wait for three minutes and recheck the engine oil dipstick.

### 1 Adding Engine Oil

If any oil spills, wipe it up immediately. Spilled oil may damage the engine compartment components.

#### NOTICE

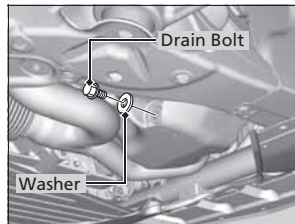
Do not fill the engine oil above the upper mark. Overfilling the engine oil can result in leaks and engine damage.



## Changing the Engine Oil and Oil Filter

You must change the engine oil and oil filter regularly in order to maintain the engine's lubrication. The engine may be damaged if they are not changed regularly.

Change the oil and filter in accordance with the maintenance message on the multi-information display.



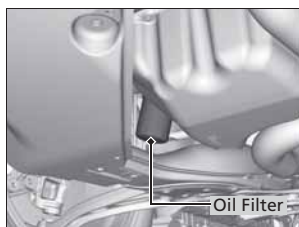
1. Run the engine until it reaches normal operating temperature, and then turn the engine off.
2. Open the hood and remove the engine oil fill cap.
3. Remove the drain bolt and washer from the bottom of the engine, and drain the oil into a suitable container.

### 1 Changing the Engine Oil and Oil Filter

#### NOTICE

You may damage the environment if you do not dispose of the oil in a suitable way. If you are changing the oil by yourself, appropriately dispose of the used oil. Put the oil in a sealed container and take it to a recycling center. Do not throw the oil away into a garbage can or onto the ground.

Continued



4. Remove the oil filter and dispose of the remaining oil.
5. Check that the filter gasket is not stuck to the engine contact surface.
  - ▢ If it is stuck, you must detach it.
6. Wipe away dirt and dust adhering to the contact surface of the oil filter base, and install a new oil filter.
  - ▢ Apply a light coat of new engine oil to the oil filter rubber seal.
7. Put a new washer on the drain bolt, then reinstall the drain bolt.
  - ▢ Tightening torque:  
29 lbf-ft (39 N·m, 4.0 kgf·m)
8. Pour the recommended engine oil into the engine.
  - ▢ Engine oil change capacity (including filter):  
5.7 US qt (5.4 ℓ)
9. Reinstall the engine oil fill cap securely and start the engine.
10. Run the engine for a few minutes, and then check that there is no leak from the drain bolt or oil filter.
11. Stop the engine, wait for three minutes, and then check the oil level on the dipstick.
  - ▢ If necessary, add more engine oil.

#### 1 Changing the Engine Oil and Oil Filter

You will need a special wrench to replace the oil filter. You can buy this wrench from a dealer.

When installing the new oil filter, follow the instructions supplied with the oil filter.

Reinstall the engine oil fill cap. Start the engine. The low oil pressure indicator should go off within five seconds. If it does not, turn off the engine, and check your work.

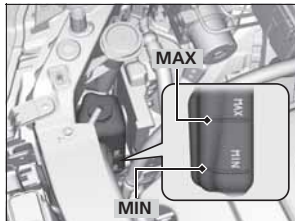
## Engine Coolant

### Specified coolant: Acura Long Life Antifreeze/Coolant Type 2

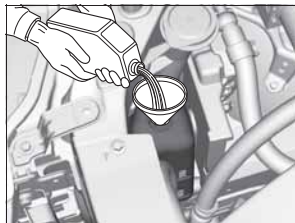
This coolant is premixed with 50% antifreeze and 50% water. Do not add any straight antifreeze or water.

We recommend you check the engine coolant level every time you refuel. Check the reserve tank first. If it is completely empty, also check the coolant level in the radiator. Add the engine coolant accordingly.

#### Reserve Tank



1. Check the amount of coolant in the reserve tank.



2. If the coolant level is below the **MIN** mark, add the specified coolant until it reaches the **MAX** mark.

3. Inspect the cooling system for leaks.

#### 1 Engine Coolant

##### NOTICE

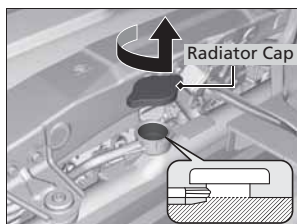
If temperatures consistently below -22°F (-30°C) are expected, the coolant mixture should be changed to a higher concentration. Consult a dealer for more information.

If Honda antifreeze/coolant is not available, you may use another major brand non-silicate coolant as a temporary replacement. Check that it is a high quality coolant recommended for aluminum engines. Continued use of any non-Honda coolant can result in corrosion, causing the cooling system to malfunction or fail. Have the cooling system flushed and refilled with Honda antifreeze/coolant as soon as possible.

Do not add rust inhibitors or other additives to your vehicle's cooling system. They may not be compatible with the coolant or with the engine components.

Continued

## Radiator



1. Make sure the engine and radiator are cool.
2. Remove the engine compartment cover.  
↳ **Engine Compartment Cover** P. 397
3. Turn the radiator cap counterclockwise and relieve any pressure in the coolant system. Do not push the cap down when turning.
4. Push down and turn the radiator cap counterclockwise to remove it.
5. The coolant level should be up to the base of the filler neck. Add coolant if it is low.
6. Put the radiator cap back on, and tighten it fully.
7. Pour coolant into the reserve tank until it reaches the **MAX** mark. Put the cap back on the reserve tank.

## 1 Radiator

### 3 WARNING

Removing the radiator cap while the engine is hot can cause the coolant to spray out, seriously scalding you.

Always let the engine and radiator cool down before removing the radiator cap.

#### NOTICE

Pour the fluid slowly and carefully so you do not spill any. Clean up any spills immediately; they can damage components in the engine compartment.

## Transmission Fluid

### ■ Automatic Transmission Fluid

**Specified fluid: Acura ATF DW-1 (automatic transmission fluid)**

Have a dealer check the fluid level and replace if necessary.

### 1 Automatic Transmission Fluid

#### NOTICE

**Do not mix Acura ATF DW-1 with other transmission fluids.**

Using a transmission fluid other than Acura ATF DW-1 may adversely affect the operation and durability of your vehicle's transmission, and damage the transmission.

Any damage caused by using a transmission fluid that is not equivalent to Acura ATF DW-1 is not covered by Acura's new vehicle warranty.

## Brake Fluid

**Specified fluid: Acura Heavy Duty Brake Fluid DOT 3**

### Checking the Brake Fluid



The fluid level should be between the **MIN** and **MAX** marks on the side of the reservoir.

### 1 Brake Fluid

#### NOTICE

Brake fluid marked DOT 5 is not compatible with your vehicle's braking system and can cause extensive damage.

If the specified brake fluid is not available, you should use only DOT 3 or DOT 4 fluid from a sealed container as a temporary replacement.

Using any non-Acura brake fluid can cause corrosion and decrease the longevity of the system. Have the brake system flushed and refilled with Acura Heavy Duty Brake Fluid DOT 3 as soon as possible.

If the brake fluid level is at or below the **MIN** mark, have a dealer inspect for leaks or worn brake pads as soon as possible.

### 1 Refilling Window Washer Fluid

#### NOTICE

Do not use engine antifreeze or a vinegar/water solution in the windshield washer reservoir. Antifreeze can damage your vehicle's paint. A vinegar/water solution can damage the windshield washer pump.

## Replacing Light Bulbs

### Headlight Bulbs

Headlight bulbs are LED type. Have an authorized Acura dealer inspect and replace the light assembly.

### Daytime Running Light Bulbs

Daytime running light bulbs are LED type. Have an authorized Acura dealer inspect and replace the light assembly.

#### 1 Headlight Bulbs

The headlight aim is set by the factory, and does not need to be adjusted. However, if you regularly carry heavy items in the cargo area or tow a trailer, have the aiming readjusted at a dealer or by a qualified technician.

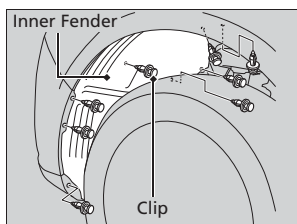
The exterior lights' inside lenses (headlights, brake lamps, etc.) may fog temporarily after a car wash or while driving in the rain. This does not impact the exterior light function.

However, if you see a large amount of water or ice accumulated inside the lenses, have your vehicle inspected by a dealer.

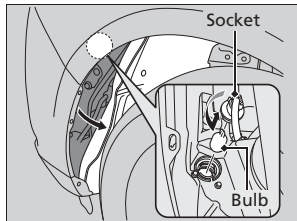
## Front Turn Signal/Front Side Marker/Parking Light Bulbs

When replacing, use the following bulbs.

**Front Turn Signal/Side Marker/Parking Light: 28/8 W**



1. Remove the holding clips, and pull the inner fender back.



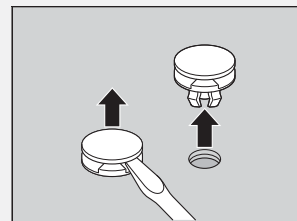
2. Turn the socket to the left and remove it.  
3. Remove the old bulb and insert a new bulb.

## Side Turn Signal/Emergency Indicator Light Bulbs

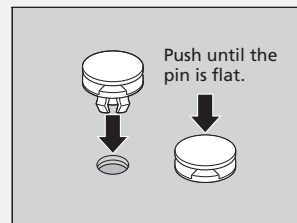
Door mirrors have the side turn lights. Have an authorized Acura dealer inspect and replace the light assembly.

### 1 Front Turn Signal/Front Side Marker/Parking Light Bulbs

Insert a flat-tip screwdriver, lift and remove the center pin to remove the clip.



Insert the clip with the center pin raised, and push until it is flat.

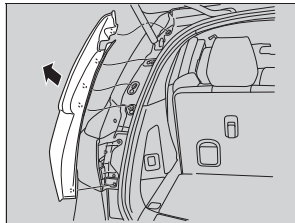




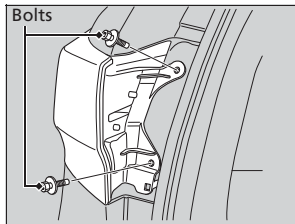
## Brake Light and Turn Signal Light Bulbs

When replacing, use the following bulbs.

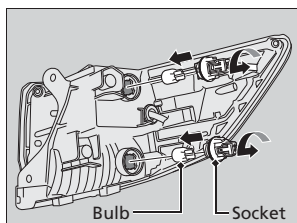
**Brake Light: 21 W**  
**Rear Turn Signal Light: 21 W**



1. Remove the cover.
  - Starting at the bottom, carefully pull the cover straight out, working upward until all pins are removed from their the grommets.
  - The grommets should remain in the body.



2. Use a Phillip-head screwdriver to remove the bolts.
3. Pull the light assembly out of the rear pillar.



4. Turn the socket to the left and remove it. Remove the old bulb.
5. Insert a new bulb.
6. Slide the light assembly onto the guide on the body.
7. Align the pins with the body grommets, then push in until they fully seat.

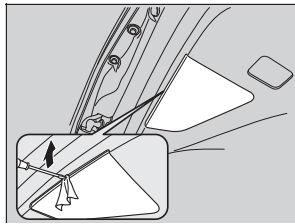
### Taillight and Rear Side Marker Light Bulbs

Taillight and rear side marker light bulbs are the LED type. Have an authorized Acura dealer inspect and replace the light assembly.

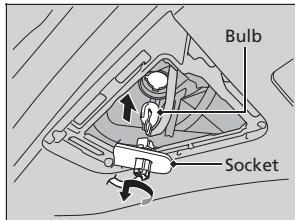
## Back-Up Light

When replacing, use the following bulbs.

**Back-Up Light: 21 W**



1. Remove the cover by prying on the edge using a flat-tip screwdriver.
  - Wrap the flat-tip screwdriver with a cloth to prevent scratches.



2. Turn the socket to the left and remove it. Remove the old bulb.
3. Insert a new bulb.

### **Rear License Plate Light Bulbs**

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Rear license plate light bulbs are the LED type. Have an authorized Acura dealer inspect and replace the light assembly.

### **High-Mount Brake Light Bulbs**

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High-mount brake light bulbs are the LED type. Have an authorized Acura dealer inspect and replace the light assembly.

### **LED Puddle Light Bulbs**

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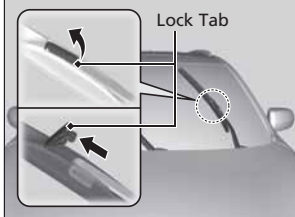
LED puddle light bulbs are LED type. Have an authorized Acura dealer inspect and replace the light assembly.

## Checking and Maintaining Wiper Blades

### Checking Wiper Blades

If the wiper blade rubber has deteriorated, it will leave streaks and the metal wiper arm may scratch the window glass.

### Changing the Front Wiper Blade Rubber



1. Lift the driver side wiper arm first, then the passenger side.

2. Place a cloth on the edge of the lock tab. Push the lock tab up with a flat-tip screw driver.

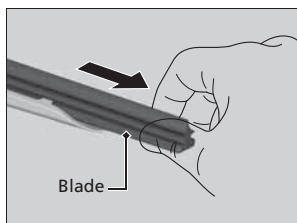
3. Slide the blade from the wiper arm.

#### 1 Changing the Front Wiper Blade Rubber

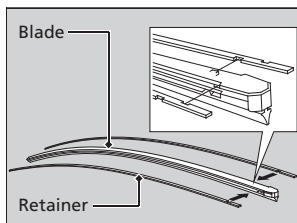
##### NOTICE

Avoid dropping the wiper arm; it may damage the windshield.

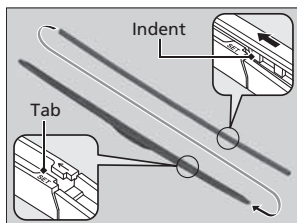
Continued



4. Slide the wiper blade out from its holder by pulling the tabbed end out.



5. Remove the retainers from the rubber blade that has been removed, and mount to a new rubber blade.  
Correctly align the rubber protrusion and the retainer grooves.

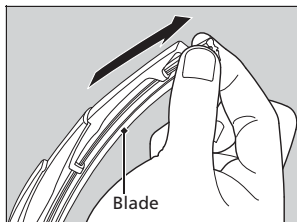


6. Slide the new wiper blade onto the holder from the bottom end.  
The tab on the holder should fit in the indent of the wiper blade.  
7. Slide the wiper blade onto the wiper arm, then push down the lock tab.  
8. Lower the passenger side wiper arm first, then the driver side.

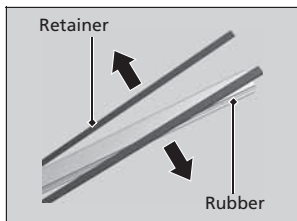
## Changing the Rear Wiper Blade Rubber



1. Raise the wiper arm off.



2. Slide the wiper blade out from the end with the indent.



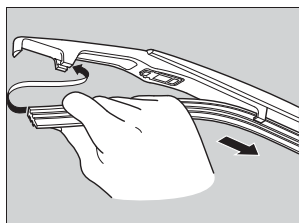
3. Remove the retainers from wiper blade and mount to a new rubber blade.

### 1 Changing the Rear Wiper Blade Rubber

#### NOTICE

Avoid dropping the wiper arm; it may damage the windshield.

Continued



- 4.** Slide the wiper blade onto the holder.
- ▢ Make sure it is engaged correctly, then install the wiper blade assembly onto the wiper arm.



## Checking and Maintaining Tires

### Checking Tires

To safely operate your vehicle, your tires must be of the proper type and size, in good condition with adequate tread, and properly inflated.

#### ■ Inflation guidelines

Properly inflated tires provide the best combination of handling, tread life, and comfort. Refer to the driver's doorjamb label or specification's page for the specified pressure.

Underinflated tires wear unevenly, adversely affect handling and fuel economy, and are more likely to fail from overheating.

Overinflated tires make your vehicle ride harshly, are more prone to road hazards, and wear unevenly.

Every day before you drive, look at each of the tires. If one looks lower than the others, check the pressure with a tire gauge.

At least once a month and before long trips, use a gauge to measure the pressure in all tires, including the spare. Even tires in good condition can lose 1 to 2 psi (10 to 20 kPa, 0.1 to 0.2 kgf/cm<sup>2</sup>) per month.

#### ■ Inspection guidelines

Every time you check inflation, also examine the tires and valve stems.

Look for:

- Bumps or bulges on the side or in the tread. Replace the tire if you find any cuts, splits, or cracks in the side of the tire. Replace it if you see fabric or cord.
- Remove any foreign objects and inspect for air leaks.
- Uneven tread wear. Have a dealer check the wheel alignment.
- Excessive tread wear.
  - 2 **Wear Indicators** P. 422
- Cracks or other damage around valve stem.

#### 1 Checking Tires

### 3 WARNING

Using tires that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding tire inflation and maintenance.

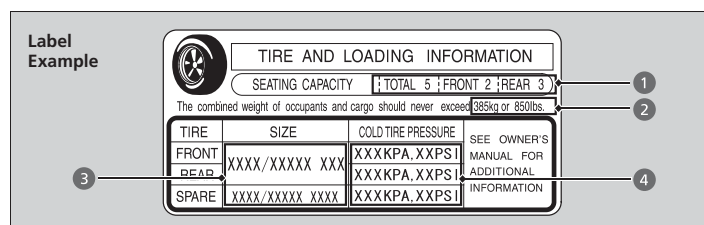
Measure the air pressure when tires are cold. This means the vehicle has been parked for at least three hours, or driven less than 1 mile (1.6 km). If necessary, add or release air until the specified pressure is reached.

If checked when hot, tire pressure can be as much as 4–6 psi (30–40 kPa, 0.3–0.4 kgf/cm<sup>2</sup>) higher than if checked when cold.

Have a dealer check the tires if you feel a consistent vibration while driving. New tires and any that have been removed and reinstalled should be properly balanced.

## Tire and Loading Information Label

The label attached to the driver's doorjamb provides necessary tire and loading information.

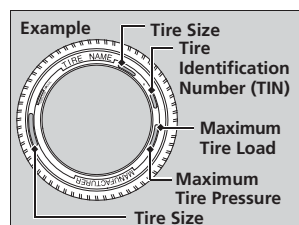


### 1 Tire and Loading Information Label

The tire and loading information label attached to the driver's doorjamb contains:

- The number of people your vehicle can carry.
- The total weight your vehicle can carry. Do not exceed this weight.
- The original tire sizes for front, rear, and spare.
- The proper cold tire pressure for front, rear, and spare.

## Tire Labeling



The tires that came on your vehicle have a number of markings. Those you should be aware of are described below.

### Tire Sizes

Whenever tires are replaced, they should be replaced with tires of the same size.

### 1 Tire Sizes

Following is an example of tire size with an explanation of what each component means.

#### **P235/60R18 102V**

P: Vehicle type (P indicates passenger vehicle).

235: Tire width in millimeters.

60: Aspect ratio (the tire's section height as a percentage of its width).

R: Tire construction code (R indicates radial).

18: Rim diameter in inches.

102: Load index (a numerical code associated with the maximum load the tire can carry).

V: Speed symbol (an alphabetical code indicating the maximum speed rating).

### Tire Identification Number (TIN)

The tire identification number (TIN) is a group of numbers and letters that look like the example in the side column. TIN is located on the sidewall of the tire.

### Glossary of Tire Terminology

**Cold Tire Pressure** – The tire air pressure when the vehicle has been parked for at least three hours or driven less than 1 mile (1.6 km).

**Load Rating** – Means the maximum load that a tire is rated to carry for a given inflation pressure.

**Maximum Inflation Pressure** – The maximum tire air pressure that the tire can hold.

**Maximum Load Rating** – Means the load rating for a tire at the maximum permissible inflation pressure for that tire.

**Recommended Inflation Pressure** – The cold tire inflation pressure recommended by the manufacturer.

**Treadwear Indicators (TWI)** – Means the projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread.

### 1 Tire Identification Number (TIN)

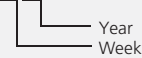
**DOT B97R FW6X 2209**

DOT: This indicates that the tire meets all requirements of the U.S. Department of Transportation.

B97R: Manufacturer's identification mark.

FW6X: Tire type code.

22 09: Date of manufacture.



## DOT Tire Quality Grading (U.S. Vehicles)

The tires on your vehicle meet all U.S. Federal Safety Requirements. All tires are also graded for treadwear, traction, and temperature performance according to Department of Transportation (DOT) standards. The following explains these gradings.

### Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

### Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

### 1 Uniform Tire Quality Grading

For example:

**Treadwear 200**  
**Traction AA**  
**Temperature A**

All passenger car tires must conform to Federal Safety Requirements in addition to these grades.

### ■ Traction

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

### ■ Temperature

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

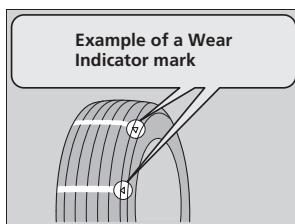
#### 1 Traction

Warning: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

#### 1 Temperature

Warning: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

## Wear Indicators



The groove where the wear indicator is located is 1/16 inch (1.6 mm) shallower than elsewhere on the tire. If the tread has worn so that the indicator is exposed, replace the tire.

**Worn out tires have poor traction on wet roads.**

## Tire Service Life

The life of your tires is dependent on many factors, including driving habits, road conditions, vehicle loading, inflation pressure, maintenance history, speed, and environmental conditions (even when the tires are not in use).

In addition to regular inspections and inflation pressure maintenance, it is recommended that you have annual inspections performed once the tires reach five years old. All tires, including the spare, should be removed from service after 10 years from the date of manufacture, regardless of their condition or state of wear.

## Tire and Wheel Replacement

Replace your tires with radials of the same size, load range, speed rating, and maximum cold tire pressure rating (as shown on the tire's sidewall). Using tires of a different size or construction can cause the ABS and VSA® (vehicle stability assist) system to work incorrectly.

It is best to replace all four tires at the same time. If that isn't possible, replace the front or rear tires in pairs.

If you replace a wheel, only use TPMS specified wheels approved for your vehicle.

Make sure that the wheel's specifications match those of the original wheels.

### 1 Tire and Wheel Replacement

#### 3 WARNING

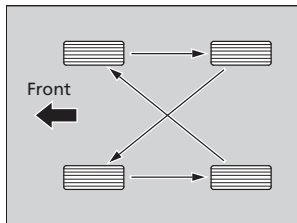
Installing improper tires on your vehicle can affect handling and stability. This can cause a crash in which you can be seriously hurt or killed.

Always use the size and type of tires recommended in this owner's manual.

## Tire Rotation

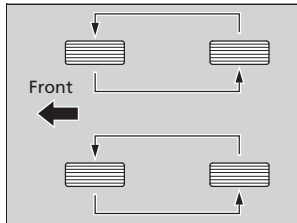
Rotating tires according to the maintenance messages on the MID helps to distribute wear more evenly and increase tire life.

### Tires without rotation marks



Rotate the tires as shown here.

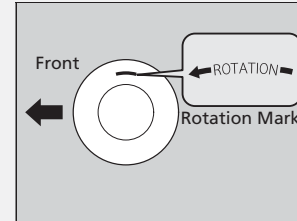
### Tires with rotation marks



Rotate the tires as shown here.

### 1 Tire Rotation

Tires with directional tread patterns should only be rotated front to back (not from one side to the other). Directional tires should be mounted with the rotation indication mark facing forward, as shown below.





## Winter Tires

If driving on snowy or frozen roads, mount all season marked "M+S" tires, snow tires, or tire chains; reduce speed; and maintain sufficient distance between vehicles when driving.

Be particularly careful when operating the steering wheel or brakes to prevent skidding.

Use tire chains, snow tires, or all season tires when necessary or according to the law.

When mounting, refer to the following points.

For winter tires:

- Select the size and load ranges that are the same as the original tires.
- Mount the tires to all four wheels.

For tire chains:

- Install them on the front tires only.
- Because your vehicle has limited tire clearance, we strongly recommend using the chains listed below:

**Cable-type: SCC Cable Chain ZT735**

- Follow the chain manufacturer's instruction when installing. Mount them as tightly as you can.
- Check that the chains do not touch the brake lines or suspension.
- Drive slowly.

### 1 Winter Tires

## 3 WARNING

Using the wrong chains, or not properly installing chains, can damage the brake lines and cause a crash in which you can be seriously injured or killed.

Follow all instructions in this owner's manual regarding the selection and use of tire chains.

### NOTICE

Traction devices that are the wrong size or improperly installed can damage your vehicle's brake lines, suspension, body, and wheels. Stop driving if they are hitting any part of the vehicle.

When tire chains are mounted, follow the chain manufacturer's instructions regarding vehicle operational limits.

If your vehicle is equipped with summer tires, be aware that these tires are not designed for winter driving conditions. For more information, contact a dealer.

## Battery

### Checking the Battery

The battery condition is being monitored by the sensor on the negative terminal. If there is a problem with the sensor, the warning message on MID will let you know. Have your vehicle checked by a dealer.

If your vehicle's battery is disconnected or goes dead:

- The audio system is disabled.
  - **Audio System Theft Protection** P. 201
- The clock resets.
  - **Clock** P. 114
- The navigation system\* is disabled.
  - **Refer to navigation system manual**

### Charging the Battery

Disconnect both battery cables to prevent damaging your vehicle's electrical system. Always disconnect the negative (-) cable first, and reconnect it last.

1 Battery

### 3 WARNING

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

When conducting any battery maintenance, wear protective clothing and a face shield, or have a skilled technician do it.

**WARNING:** Battery post, terminals, and related accessories contain lead and lead compounds.  
**Wash your hands after handling.**

When you find corrosion, clean the battery terminals by applying a baking powder and water solution. Clean the terminals with a damp towel. Cloth/towel dry the battery. Coat the terminals with grease to help prevent future corrosion.

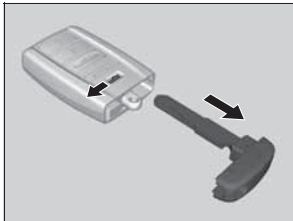
When replacing the battery, the replacement must be of the same specifications. Please consult a dealer for more information.

## Remote Transmitter Care

### Replacing the Button Battery

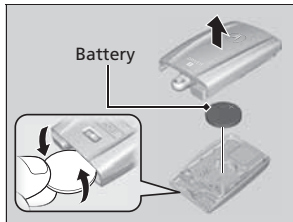
Models without remote control engine start system

If the indicator does not come on when the button is pressed, replace the battery.



**Battery type: CR2032**

1. Remove the built-in key.



2. Remove the upper half by carefully prying on the edge with a coin.
  - ⌞ Wrap a coin with a cloth to prevent scratching the transmitter.
3. Make sure to replace the battery with the correct polarity.

#### 1 Replacing the Button Battery

##### NOTICE

An improperly disposed of battery can damage the environment. Always confirm local regulations for battery disposal.

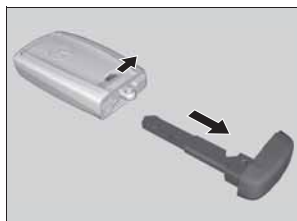
Replacement batteries are commercially available or at a dealer.

Continued

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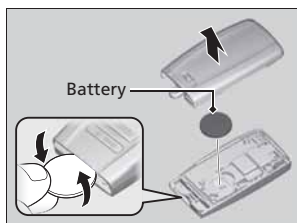
Models with remote control engine start system

If the indicator does not come on when the button is pressed, replace the battery.



**Battery type: CR2032**

1. Remove the built-in key.
  - ⌞ As a convenience, lightly place masking tape over the remote buttons to hold them in place.
2. Remove the upper half by carefully prying on the edge with a coin.
  - ⌞ Wrap a coin with a cloth to prevent scratching the transmitter.
3. Press down on the center of the assembly and remove the battery.
  - ⌞ When removing the button battery, be careful not to touch parts around it.
4. Make sure to replace the battery with the correct polarity.



1 Replacing the Button Battery

Models with remote control engine start system

**NOTICE**

The Remote transmitter is equipped with two batteries: A standard replaceable CR2032 coin button battery and an integral non-replaceable rechargeable battery. To prevent permanent damage to the rechargeable battery, replace the CR2032 battery every three to four years.

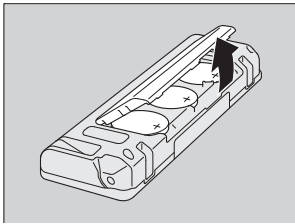
## Remote Control and Wireless Headphone Care \*

Models with Rear Entertainment System

### Replacing the Battery

#### Remote Control

If it takes several pushes on the remote control buttons to operate the rear entertainment system, replace the battery.



**Battery type: BR3032**

1. Remove the cover.
2. Make sure to replace the battery with the correct polarity.

#### 1 Replacing the Battery

##### NOTICE

An improperly disposed of battery can damage the environment. Always confirm local regulations for battery disposal.

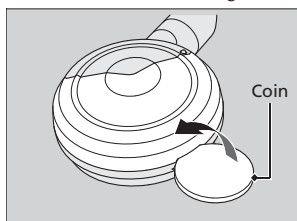
Replacement batteries are commercially available or at a dealer.

\* Not available on all models

Continued

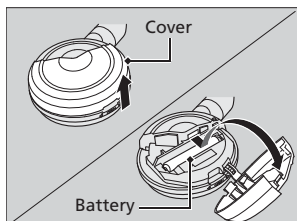
### Wireless Headphone

If there is no sound coming from the wireless headphone, replace the battery.



**Battery type: AAA**

1. To open the cover, insert a coin in the slot and twist it slightly to pry the cover away from the earpiece.



2. Make sure to replace the battery with the correct polarity.

## Climate Control System Maintenance

### Dust and Pollen Filter

The climate control system is equipped with a dust and pollen filter that collects pollen, dust, and other debris in the air. The Maintenance Minder™ messages will let you know when to replace the filter.

We recommend that you replace the dust and pollen filter sooner when using your vehicle in areas with high concentrations of dust.

#### 1 Dust and Pollen Filter

If the airflow from the climate control system deteriorates noticeably, and the windows fog up easily, the filter may need to be replaced. Please contact a dealer for replacement.

## Cleaning

### Interior Care

Use a damp cloth with a mixture of mild detergent and warm water to remove dirt. Use a clean cloth to remove detergent residue.

#### Cleaning Seat Belts

Use a soft brush with a mixture of mild soap and warm water to clean the seat belts. Let the belts air dry. Wipe the openings of the seat belt anchors using a clean cloth.



#### 1 Interior Care

Do not spill liquids inside the vehicle. Electrical devices and systems may malfunction if liquids are splashed on them.

Do not use silicone based sprays on electrical devices such as audio devices and switches. Doing so may cause the items to malfunction or a fire inside the vehicle.

If a silicone based spray is inadvertently used on electrical devices, consult a dealer.

Depending on their composition, chemicals and liquid aromatics may cause discoloration, wrinkles, and cracking to resin-based parts and textiles.

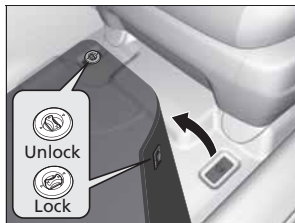
Do not use alkali solvents or organic solvents such as benzene or gasoline.

After using chemicals, make sure to gently wipe them off using a dry cloth.

Do not place used cloths on top of resin based parts or textiles for long periods of time without washing.



### Floor Mats



The front floor mats hook over the floor anchors, which keep the mats from sliding forward. To remove a mat for cleaning, turn the anchor knobs to the unlock position. When reinstalling the mat after cleaning, turn the knobs to the lock position.

**Do not put additional floor mats on top of the anchored mat.**

### Maintaining Genuine Leather

Vacuum dirt and dust from the leather frequently. Pay close attention to the pleats and seams. Clean the leather with a soft cloth dampened with a 90% water and 10% neutral soap solution. Then buff it with a clean, dry cloth. Remove any dust or dirt on leather surfaces immediately.

### 1 Floor Mats

If you use any floor mats that were not originally provided with your vehicle, make sure they are designed for your specific vehicle, fit correctly, and are securely anchored by the floor anchors. Position the rear seat floor mats properly. If they are not properly positioned, the floor mats can interfere with the front seat functions.

## Exterior Care

Dust off the vehicle body after you drive. Regularly inspect your vehicle for scratches on painted surfaces. A scratch on a painted surface can result in body rust. If you find a scratch, promptly repair it.

### Washing the Vehicle

Wash the vehicle regularly. Wash more frequently when driving in the following conditions:

- If driving on roads with road salt.
- If driving in coastal areas.
- If tar, soot, bird droppings, insects, or tree sap are stuck to painted surfaces.

### Using an Automated Car Wash

Fold in the door mirrors. Make sure to follow the instructions indicated on the automated car wash.

### Using High Pressure Cleaners

- Keep sufficient distance between the cleaning nozzle and the vehicle body.
- Take particular care around the windows. Standing too close may cause water to enter the vehicle interior. Do not spray water into the engine compartment.

#### 1 Washing the Vehicle

Do not spray water into the air intake vents or engine compartment. It can cause a malfunction.



Air Intake Vents

### ■ Applying Wax

A good coat of automotive body wax helps protect your vehicle's paint from the elements. Wax will wear off over time and expose your vehicle's paint to the elements, so reapply as necessary.

### ■ Maintaining the Bumpers and Other Resin Coated Parts

If you get gasoline, oil, engine coolant, or battery fluid on resin coated parts, they may be stained or the coating may peel. Promptly wipe it away using a soft cloth and clean water.

### ■ Cleaning the Window

Wipe using a glass cleaner.

### ■ Maintaining Aluminum Wheels

Aluminum is susceptible to deterioration caused by salt and other road contaminants. Use a sponge and mild detergent to wipe away promptly. Be careful not to use harsh chemicals (including some commercial wheel cleaners) or a stiff brush. They can damage the clear coat of the aluminum alloy wheels that helps keep the aluminum from corroding and tarnishing.

#### 1 Applying Wax

##### NOTICE

Chemical solvents and strong cleaners can damage the paint, metal, and plastic on your vehicle. Wipe up spills immediately.

#### 1 Maintaining the Bumpers and Other Resin Coated Parts

Ask a dealer about the correct coating material when you want to repair the painted surface of the parts made of resin.

#### 1 Cleaning the Window

Wires are mounted to the inside of the rear window. Wipe along the same direction as the wires with a soft cloth so as not to damage them.



# Handling the Unexpected

This chapter explains how to handle unexpected troubles.

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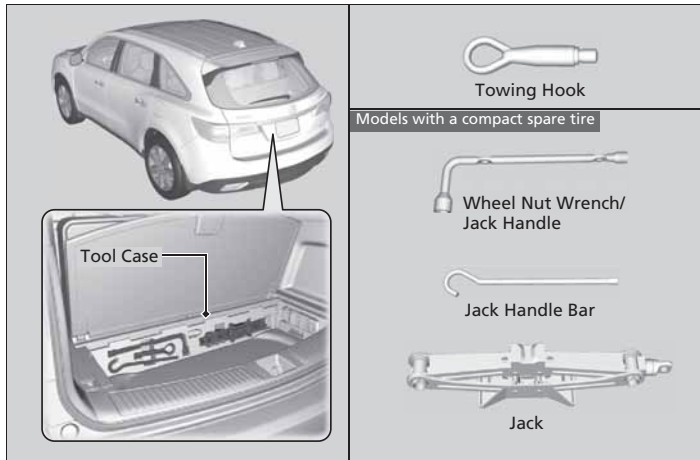
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\* Not available on all models

## Tools

### Types of Tools



#### 1 Types of Tools

The tools are stored in the cargo area.

## If a Tire Goes Flat

### Changing a Flat Tire\*

If a tire goes flat while driving, grasp the steering wheel firmly, and brake gradually to reduce speed. Then, stop in a safe place. Replace the flat tire with a compact spare tire. Go to a dealer as soon as possible to have the full-size tire repaired or replaced.

1. Park the vehicle on firm, level, non-slippery surface and apply the parking brake.
2. Move the shift lever to P .
3. Turn on the hazard warning lights and set the power mode to VEHICLE OFF (LOCK).

\* Not available on all models

#### 1 Changing a Flat Tire\*

Periodically check the tire pressure of the compact spare. It should be set to the specified pressure.  
Specified Pressure: 60 psi (420 kPa, 4.2 kgf/cm<sup>2</sup>)

When driving with the compact spare tire, keep the vehicle speed under 50 mph (80 km/h). Replace with a full-size tire as soon as possible.

The compact spare tire and wheel in your vehicle are specifically for this model.  
Do not use them with another vehicle.  
Do not use another type of compact spare tire or wheel with your vehicle.

Do not mount tire chains on a compact spare tire.  
If a chain-mounted front tire goes flat, remove one of the full-size rear tires and replace it with the compact spare tire. Remove the flat front tire and replace it with the full-size tire that was removed from the rear. Mount the tire chains on the front tire.

Do not use a puncture-repairing agent on a flat tire, as it can damage the tire pressure sensor.

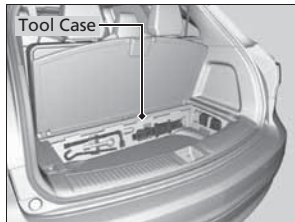
### Getting Ready to Replace the Flat Tire



1. Push the rear edge of the handle on the floor lid and open the lid.



2. Take out the cargo floor box.



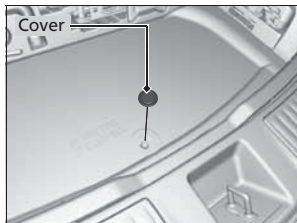
3. Take the jack, wheel nut wrench, and jack handle bar out of the tool case.

### 1 Changing a Flat Tire\*

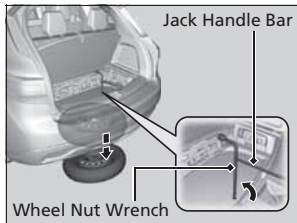
#### NOTICE

Do not use the jack if it doesn't work properly. Call your dealer or a professional towing service.

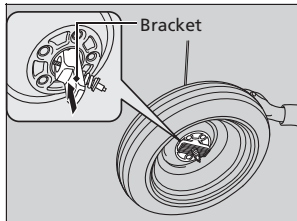




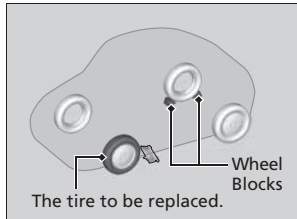
4. Remove the cover on the cargo area lining to access the shaft for the spare tire hoist.



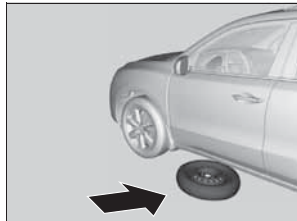
5. Put the wheel nut wrench with the jack handle bar on the hoist shaft. Turn the wrench to the left to lower the spare tire to the ground.



6. Keep turning the wheel nut wrench to create slack in the cable.  
7. Remove the bracket from the spare tire.



**8.** Place a wheel block or rock in front and rear of the wheel diagonal to the flat tire.

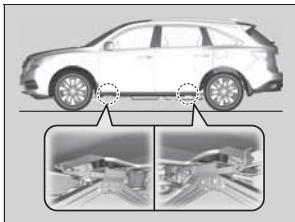


**9.** Place the compact spare tire wheel side up under the vehicle body, near the tire that needs to be replaced.



**10.** Loosen each wheel nut about one turn using the wheel nut wrench.

### How to Set Up the Jack

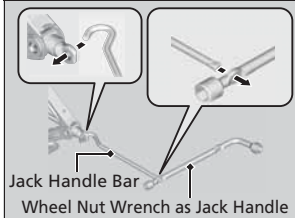


1. Place the jack under the jacking point closest to the tire to be changed.



2. Turn the end bracket clockwise as shown in the image until the top of the jack contacts the jacking point.

⊞ Make sure that the jacking point tab is resting in the jack notch.



3. Raise the vehicle, using the jack handle bar and the jack handle, until the tire is off the ground.

### 1 How to Set Up the Jack

## 3 WARNING

The vehicle can easily roll off the jack, seriously injuring anyone underneath.

Follow the directions for changing a tire exactly, and never get under the vehicle when it is supported only by the jack.

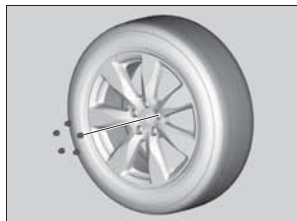
Do not use the jack with people or luggage in the vehicle.

Use the jack provided in your vehicle. Other jacks may not support the weight ("load") or may not fit in the jacking point.

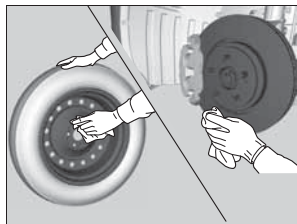
The following instructions must be followed to use the jack safely.

- Do not use while the engine is running.
- Use only where the ground is firm and level.
- Use only at the jacking points.
- Do not get in the vehicle while using the jack.
- Do not put anything on top of or underneath the jack.

### Replacing the Flat Tire



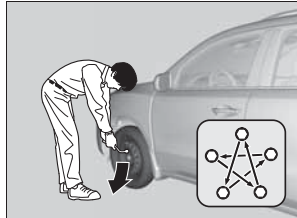
1. Remove the wheel nuts and flat tire.



2. Wipe the mounting surfaces of the wheel with a clean cloth.

3. Mount the compact spare tire.

4. Screw the wheel nuts until they touch the lips around the mounting holes, then stop rotating.



5. Lower the vehicle and remove the jack. Tighten the wheel nuts in the order indicated in the image. Go around, tightening the nuts, two to three times in this order.

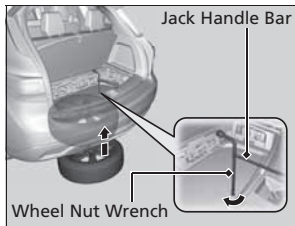
**Wheel nut torque:**

80 lbf-ft (108 N·m, 11 kgf·m)

### 1 Replacing the Flat Tire

Do not over tighten the wheel nuts by applying extra torque using your foot or a pipe.

### ■ Storing the Flat Tire



1. Remove the center cap and place the flat tire face up under the hoist.
2. Insert the hoist bracket into the center hole of the flat tire.
3. Turn the wheel nut wrench with the jack handle bar clockwise until the flat tire rests against the underbody of the vehicle and you hear the hoist click.
4. Securely put the jack and wheel nut wrench back in the tool case. Store the case in the cargo area.

### ■ TPMS and the Spare Tire

If you replace a flat tire with the spare tire, the low tire pressure/TPMS indicator comes on while you are driving. After driving for a few miles (kilometers), the indicator will start blinking for a short time and then stay on. **Tire Pressure Monitor Problem** appears on the multi-information display (MID), but this is normal.

If you replace the tire with a specified regular tire, the warning message on the MID and the low tire pressure/TPMS indicator will go off after a few miles (kilometers).

### 1 Storing the Flat Tire

## 3 WARNING

Loose items can fly around the interior in a crash and can seriously injure the occupants.  
Store the jack and tools securely before driving.

### 1 TPMS and the Spare Tire

The system cannot monitor the pressure of the spare tire. Manually check the spare tire pressure to be sure that it is correct.

Use the TPMS specific wheels. Each is equipped with a tire pressure sensor mounted inside the tire behind the valve stem.

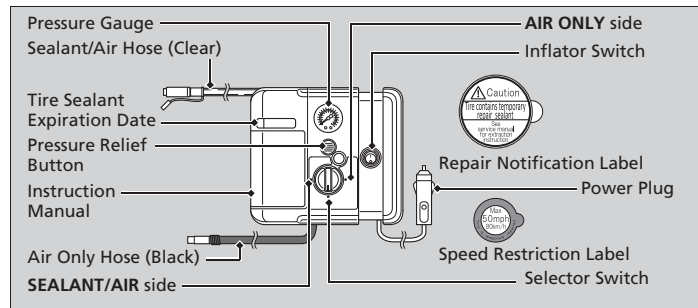
## Temporarily Repairing a Flat Tire \*

If the tire has a large cut or is otherwise severely damaged, you will need to have the vehicle towed. If the tire only has a small puncture, from a nail for instance, you can use the temporary tire repair kit so that you can drive to the nearest service station for a more permanent repair.

If a tire goes flat while driving, grasp the steering wheel firmly, and brake gradually to reduce speed. Then stop in a safe place.

1. Park the vehicle on a firm, level, and non-slippery surface and apply the parking brake.
2. Move the shift lever to P .
3. Turn on the hazard warning lights and set the power mode to VEHICLE OFF (LOCK).

### Getting Ready to Temporarily Repair the Flat Tire



### 1 Temporarily Repairing a Flat Tire \*

The kit should not be used in the following situations. Instead, contact a dealer or a roadside assistant to have the vehicle towed.

- The tire sealant has expired.
- More than two tires are punctured.
- The puncture or cut is larger than 3/16 inch (4mm).
- The tire side wall is damaged or the puncture is outside the contact area.

Contact Area	When the puncture is:	Kit Use
	Smaller than 3/16 inch (4 mm)	Yes
Larger than 3/16 inch (4 mm)	No	

- Damage has been caused by driving with the tire extremely under inflated.
- The tire bead is no longer seated.
- The rim is damaged.

Do not remove a nail or screw that punctured the tire. If you remove it from the tire, you may not be able to repair the puncture using the kit.

#### NOTICE

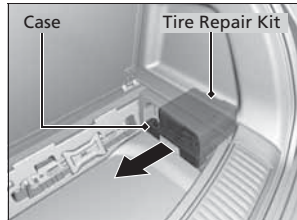
Do not use a puncture-repairing agent other than the one provided in the kit that came with your vehicle. If a different agent is used, you may permanently damage the tire pressure sensor.



**1.** Pull the handle on the cargo area floor lid and open the lid.



**2.** Take out the cargo floor box.

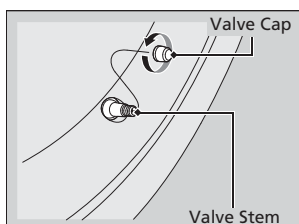


**3.** Take the kit out of the case.  
**4.** Place the kit face up, on flat ground near the flat tire, and away from traffic. Do not place the kit on its side.

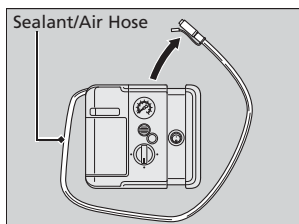
**1 Getting Ready to Temporarily Repair the Flat Tire**

When making a temporary repair, carefully read the instruction manual provided with the kit.

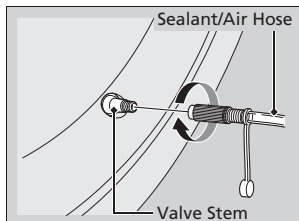
### Injecting Sealant and Air



1. Remove the valve cap from the tire valve stem.



2. Remove the sealant/air hose from the packaging.



3. Attach the sealant/air hose onto the tire valve stem. Screw it until it is tight.

### 1 Injecting Sealant and Air

## 3 WARNING

Tire sealant contains substances that are harmful and can be fatal if swallowed.

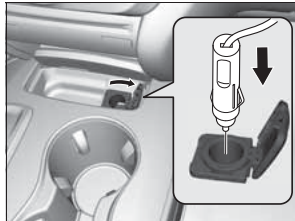
If accidentally swallowed, do not induce vomiting. Drink plenty of water and get medical attention immediately.

For skin or eye contact, flush with cool water and get medical attention if necessary.

In cold temperatures, the sealant may not flow easily. In this situation, warm it up for five minutes before using.

The sealant can permanently stain clothing and other materials. Be careful during handling and wipe away any spills immediately.





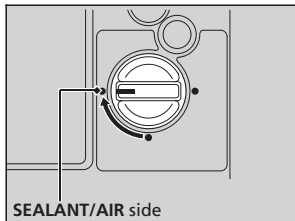
4. Plug in the compressor to the accessory power socket.
- ⌋ Be careful not to pinch the cord in a door or window.
  - ⌋ Do not plug any other electronic devices into other accessory power sockets.

➤ **Accessory Power Sockets** P. 178

5. Start the engine.
- ⌋ Keep the engine running while injecting sealant and air.

➤ **Carbon Monoxide Gas** P. 66

6. Turn the selector switch to **SEALANT/AIR**.



1 Injecting Sealant and Air

**3 WARNING**

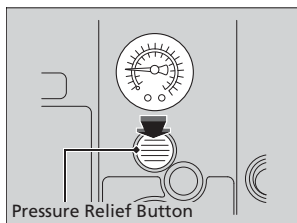
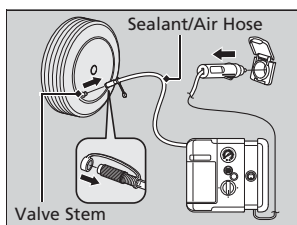
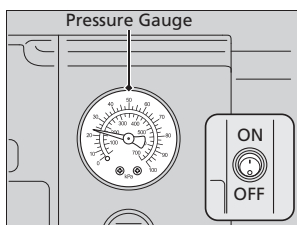
Running the engine with the vehicle in an enclosed or even partly enclosed area can cause a rapid build-up of toxic carbon monoxide.

Breathing this colorless, odorless gas can cause unconsciousness and even death. Only run the engine to power the air compressor with the vehicle outdoors.

**NOTICE**

Do not operate the temporary tire repair kit compressor for more than 15 minutes. The compressor can overheat and become permanently damaged.

Until the sealant injection is complete, the pressure shown on the pressure gauge will appear higher than actual. After the sealant injection is complete the pressure will drop and then begin to rise again as the tire is inflated with air. This is normal. To accurately measure the air pressure using the gauge, turn the air compressor off only after the sealant injection is complete.

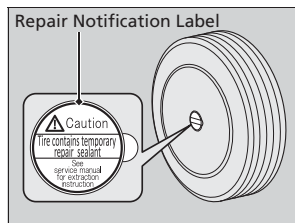


7. Press the inflator switch to turn on the compressor.
  - ⌵ The compressor starts injecting sealant and air into the tire.
8. When the sealant injection is complete, continue to add air.
9. After the air pressure reaches 35 psi (240 kPa), turn off the kit.
  - ⌵ To check the pressure, occasionally turn off the compressor and read the gauge.
10. Unplug the power plug from the accessory power socket.
11. Unscrew the sealant/air hose from the tire valve stem. Reinstall the valve cap.
12. Press the pressure relief button until the gauge returns to 0 psi (0 kPa).

#### 1 Injecting Sealant and Air

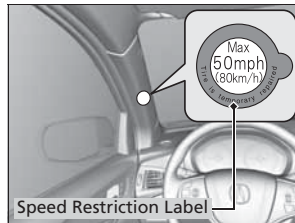
If the required air pressure is not reached within 15 minutes, the tire may be too severely damaged for the kit to provide the necessary seal and your vehicle will need to be towed.

See an Acura dealer for a replacement sealant bottle and proper disposal of an empty bottle.

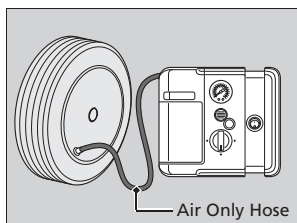


- 13.** Apply the repair notification label to the flat surface of the wheel.
- ⌵ The wheel surface must be clean to ensure the label adheres properly.

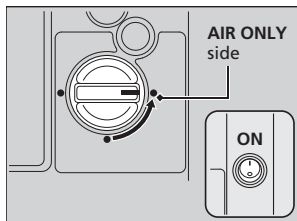
**■ Distributing the Sealant in the Tire**



1. Apply the speed restriction label to the location as shown.
2. Drive the vehicle for about 10 minutes.
  - ⌵ Do not exceed 50 mph (80 km/h).
3. Stop the vehicle in a safe place.



4. Recheck the air pressure using the air only hose on the compressor.



5. Turn the selector switch to **AIR ONLY**.

⌚ Do not turn the air compressor on to check the pressure.

➤ **Inflating an Under-inflated Tire** P. 454

6. If the air pressure is

- Less than 19 psi (130 kPa):

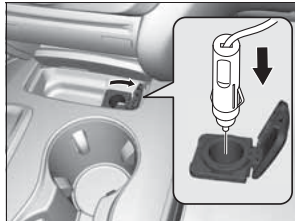
Do not add air or continue driving. The leak is too severe. Call for help and have your vehicle towed.

➤ **Emergency Towing** P. 475

- 35 psi (240 kPa) or more:

Continue driving for another 10 minutes or until you reach the nearest service station. Do not exceed 50 mph (80 km/h).

⌚ If the air pressure does not go down after the 10 minute driving, you do not need to check the pressure any more.



- Greater than 19 psi (130 kPa), but less than 35 psi (240 kPa):

Turn the air compressor on to inflate the tire until the tire pressure reaches 35 psi (240 kPa).

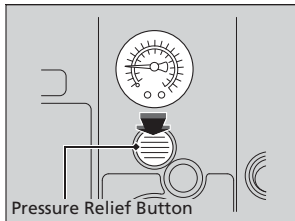
Turn the air compressor on to inflate the tire until the tire pressure reaches front: 35 psi (240 kPa)/rear: 33 psi (230 kPa).

**2 Inflating an Under-inflated Tire** P. 454

Then drive carefully for 10 more minutes or until you reach the nearest service station. Do not exceed 50 mph (80 km/h).

- ⌵ You should repeat this procedure as long as the air pressure is within this range.

7. Press the pressure relief button until the gauge returns to 0 psi (0 kPa).
8. Repackage and properly stow the kit.



**1** Distributing the Sealant in the Tire

**3 WARNING**

Running the engine with the vehicle in an enclosed or even partly enclosed area can cause a rapid build-up of toxic carbon monoxide.

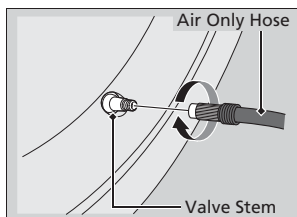
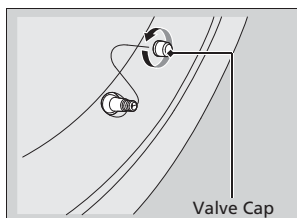
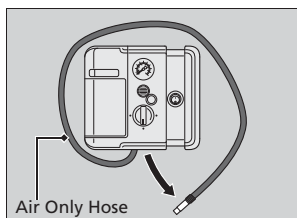
Breathing this colorless, odorless gas can cause unconsciousness and even death. Only run the engine to power the air compressor with the vehicle outdoors.

Handling the Unexpected

Continued

### Inflating an Under-inflated Tire

You can use the kit to inflate a non-punctured under-inflated tire.

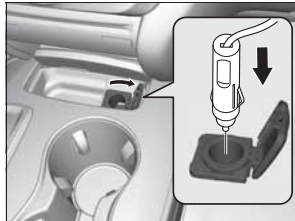


1. Open the cargo area floor lid.
2. **Getting Ready to Temporarily Repair the Flat Tire** P. 446
2. Remove the kit from the case.
3. Place the kit, face up, on flat ground near the flat tire, away from traffic. Do not place the kit on its side.
4. Remove the air only hose from the kit.
5. Remove the valve cap.
6. Attach the air only hose onto the tire valve stem. Screw it until it is tight.

### 1 Inflating an Under-inflated Tire

#### NOTICE

Do not operate the temporary tire repair kit compressor for more than 15 minutes. The compressor can overheat and become permanently damaged.



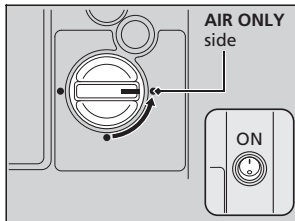
7. Plug in the kit to the accessory power socket.
- ⊞ Be careful not to pinch the cord in a door or window.
  - ⊞ Do not plug any other electronic devices into other accessory power sockets.
- 2 **Accessory Power Sockets** P. 178

8. Start the engine.
- ⊞ Keep the engine running while injecting air.
- 2 **Carbon Monoxide Gas** P. 66

9. Turn the selector switch to **AIR ONLY**.

10. Press the inflator switch to turn on the kit.
- ⊞ The compressor starts to inject air into the tire.

11. Inflate the tire to the specified air pressure.



1 Inflating an Under-inflated Tire

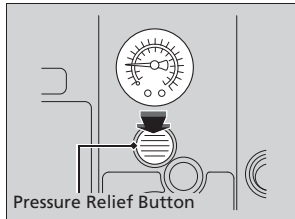
**3 WARNING**

Running the engine with the vehicle in an enclosed or even partly enclosed area can cause a rapid build-up of toxic carbon monoxide.

Breathing this colorless, odorless gas can cause unconsciousness and even death. Only run the engine to power the air compressor with the vehicle outdoors.

Handling the Unexpected

Continued



- 12.** Turn off the kit.
  - ⌵ Check the pressure gauge on the air compressor.
  - ⌵ If overinflated, press the pressure relief button.
- 13.** Unplug the kit from the accessory power socket.
- 14.** Unscrew the air only hose from the tire valve stem. Reinstall the valve cap.
- 15.** Press the pressure relief button until the gauge returns to 0 psi (0 kPa).
- 16.** Repackage and properly stow the kit.



## Engine Does Not Start

### Checking the Engine

If the engine does not start, check the starter.

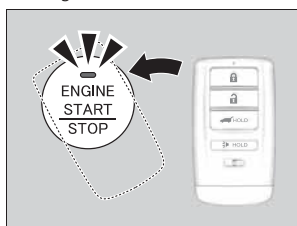
#### 1 Checking the Engine

If you must start the vehicle immediately, use an assisting vehicle to jump start it.  
2 **Jump Starting** P. 460

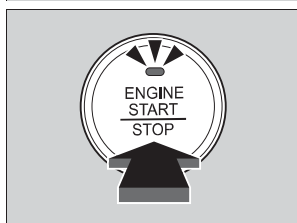
Starter condition	Checklist
<b>Starter doesn't turn or turns over slowly.</b> The battery may be dead. Check each of the items on the right and respond accordingly.	<b>Check for a message on the MID.</b> <ul style="list-style-type: none"><li>• If the <b>To Start, Hold Remote Near Start Button</b> message appears<ul style="list-style-type: none"><li>2 <b>If the Keyless Access Remote Battery is Weak</b> P. 458</li></ul></li><li>□ Make sure the keyless access remote is in its operating range.<ul style="list-style-type: none"><li>2 <b>ENGINE START/STOP Button Operating Range</b> P. 141</li></ul></li></ul>
	<b>Check the brightness of the interior lights.</b> Turn on the interior lights and check the brightness. <ul style="list-style-type: none"><li>• If the interior lights are dim or do not come on at all<ul style="list-style-type: none"><li>2 <b>Battery</b> P. 426</li></ul></li><li>• If the interior lights come on normally 2 <b>Fuses</b> P. 469</li></ul>
<b>The starter turns over normally but the engine doesn't start.</b> There may be a problem with the fuse. Check each of the items on the right and respond accordingly.	<b>Review the engine start procedure.</b> Follow its instructions, and try to start the engine again. 2 <b>Starting the Engine</b> P. 322
	<b>Check the immobilizer system indicator.</b> When the immobilizer system indicator is blinking, the engine cannot be started. <ul style="list-style-type: none"><li>2 <b>Immobilizer System</b> P. 135</li></ul>
	<b>Check the fuel level.</b> There should be enough fuel in the tank. 2 <b>Fuel Gauge</b> P. 97
	<b>Check the fuse.</b> Check all fuses, or have the vehicle checked by a dealer. <ul style="list-style-type: none"><li>2 <b>Inspecting and Changing Fuses</b> P. 474</li></ul>
	<b>If the problem continues:</b> <ul style="list-style-type: none"><li>2 <b>Emergency Towing</b> P. 475</li></ul>

## If the Keyless Access Remote Battery is Weak

If the beeper sounds, the **To Start, Hold Remote Near Start Button** message appears on the MID, the indicator on the **ENGINE START/STOP** button flashes, and the engine won't start, start the engine as follows.



1. Touch the center of the **ENGINE START/STOP** button with the **A** logo on the keyless access remote while the indicator on the **ENGINE START/STOP** button is flashing. The buttons on the keyless access remote should be facing you.
  - ⌋ The indicator flashes for about 30 seconds.



2. Depress the brake pedal and press the **ENGINE START/STOP** button within 10 seconds after the beeper sounds and the indicator changes from flashing to on.
  - ⌋ If you don't depress the pedal, the mode will change to ACCESSORY.

## Emergency Engine Stop

The **ENGINE START/STOP** button may be used to stop the engine due to an emergency situation even while driving. If you must stop the engine, do either of the following operations:

- Press and hold the **ENGINE START/STOP** button for about two seconds.
- Firmly press the **ENGINE START/STOP** button two times.
- The steering wheel will not lock. The power mode changes to VEHICLE OFF with the shift lever in P , and to ACCESSORY with the shift lever in any position other than P .
- Because turning off the engine also disables the power assist the engine provides to the steering and braking systems, it will require significantly more physical effort and time to steer and slow the vehicle. Downshift gears and use both feet on the brake pedal, if necessary, to slow the vehicle and stop immediately in a safe place.

### 1 Emergency Engine Stop

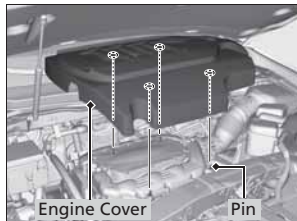
#### NOTICE

Do not press the button while driving unless it is absolutely necessary for the engine to be switched off.

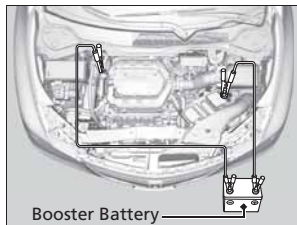
## Jump Starting

### Jump Starting Procedure

Turn off the power to electric devices, such as audio and lights. Turn off the engine, then open the hood.



1. Pull up on the engine cover, remove it from the pins.



2. Connect the first jumper cable to your vehicle's battery + terminal.
3. Connect the other end of the first jumper cable to the booster battery + terminal.
  - ⌋ Use a 12-volt booster battery only.
4. Connect the second jumper cable to the booster battery - terminal.

### 1 Jump Starting

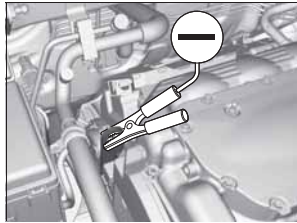
## 3 WARNING

A battery can explode if you do not follow the correct procedure, seriously injuring anyone nearby.

Keep all sparks, open flames, and smoking materials away from the battery.

Securely attach the jumper cables clips so that they do not come off when the engine vibrates. Also be careful not to tangle the jumper cables or allow the cable ends to touch each other while attaching or detaching the jumper cables.

Battery performance degrades in cold conditions and may prevent the engine from starting.



5. Connect the other end of the second jumper cable to the engine hanger as shown. Do not connect this jumper cable to any other part.
6. If your vehicle is connected to another vehicle, start the assisting vehicle's engine and increase its rpm slightly.
7. Attempt to start your vehicle's engine. If it turns over slowly, check that the jumper cables have good metal-to-metal contact.

#### What to Do After the Engine Starts

Once your vehicle's engine has started, remove the jumper cables in the following order.

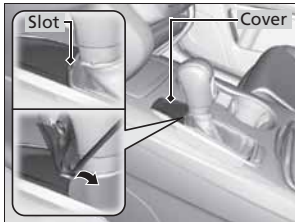
1. Disconnect the jumper cable from your vehicle's ground.
2. Disconnect the other end of the jumper cable from the booster battery - terminal.
3. Disconnect the jumper cable from your vehicle's battery + terminal.
4. Disconnect the other end of the jumper cable from the booster battery + terminal.

Have your vehicle inspected by a nearby service station or a dealer.

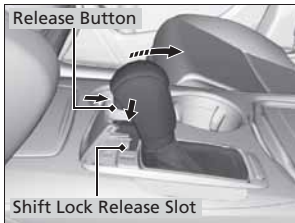
## Shift Lever Does Not Move

Follow the procedure below if you cannot move the shift lever out of the P position.

### Releasing the Lock



1. Set the parking brake.
2. Remove the built-in key from the keyless access remote.
3. Wrap a cloth around the tip of a small flat-tip screwdriver. Place it at the back of the release lock cover, and remove the cover.



4. Insert the key into the shift lock release slot.
5. While pushing the key down, press the shift lever release button and place the shift lever into N.
  - ⌋ The lock is now released. Have the shift lever checked by a dealer as soon as possible.

Handling the Unexpected

## Overheating

### How to Handle Overheating

Overheating symptoms are as follows:

- The temperature gauge needle is at the **H** mark or the engine suddenly loses power.
- Steam or spray comes out of the engine compartment.

#### ■ First thing to do

1. Immediately park the vehicle in a safe place.
2. Turn off all accessories and turn on the hazard warning lights.
  - ↳ **No steam or spray present:** Keep the engine running and open the hood.
  - ↳ **Steam or spray is present:** Turn off the engine and wait until it subsides. Then, open the hood.

1 How to Handle Overheating

### 3 WARNING

Steam and spray from an overheated engine can seriously scald you.

Do not open the hood if steam is coming out.

#### NOTICE

Continuing to drive with the temperature gauge needle at the **H** mark may damage the engine.

Handling the Unexpected

Continued

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■ Next thing to do



1. Check that the cooling fan is operating and stop the engine once the temperature gauge needle goes down.
  - If the cooling fan is not operating, immediately stop the engine.
2. Once the engine has cooled down, inspect the coolant level and check the cooling system components for leaks.
  - If the coolant level in the reserve tank is low, add coolant until it reaches the **MAX** mark.
  - If there is no coolant in the reserve tank, check that the radiator is cool. Cover the radiator cap with a heavy cloth and open the cap. If necessary, add coolant up to the base of the filler neck, and put the cap back on.

■ Last thing to do

Once the engine has cooled sufficiently, restart it and check the temperature gauge. If the temperature gauge needle has gone down, resume driving. If it has not gone down, contact a dealer for repairs.

1 How to Handle Overheating

**3 WARNING**

Removing the radiator cap while the engine is hot can cause the coolant to spray out, seriously scalding you.

Always let the engine and radiator cool down before removing the radiator cap.

If the coolant is leaking, contact a dealer for repairs.

Use water as an emergency/temporary measure only. Have a dealer flush the system with proper antifreeze as soon as possible.



## Indicator, Coming On/Blinking

### If the Low Oil Pressure Indicator Comes On



■ **Reasons for the indicator to come on**

Comes on when the engine oil pressure is low.

■ **What to do as soon as the indicator comes on**

1. Immediately park the vehicle on level ground in a safe place.
2. If necessary, turn the hazard warning lights on.

■ **What to do after parking the vehicle**

1. Stop the engine and let it sit for about three minutes.
2. Open the hood and check the oil level.
  - **Oil Check** P. 399
3. Start the engine and check the low oil pressure indicator.
  - ⊔ The indicator goes off: Start driving again.
  - ⊔ The indicator does not go off within 10 seconds: Stop the engine and contact a dealer for repairs immediately.

### If the Charging System Indicator Comes On



■ **Reasons for the indicator to come on**

Comes on when the battery is not being charged.

■ **What to do when the indicator comes on**

Turn off the climate control system, rear defogger, and other electrical systems, and immediately contact a dealer for repairs.

#### 1 If the Low Oil Pressure Indicator Comes On

**NOTICE**

Running the engine with low oil pressure can cause serious mechanical damage almost immediately.

#### 1 If the Charging System Indicator Comes On

If you need to stop temporarily, do not turn off the engine. Restarting the engine may rapidly discharge the battery.

## If the Malfunction Indicator Lamp Comes On or Blinks



### Reasons for the indicator lamp to come on or blink

- Comes on when there is a problem with the engine emissions control system, or the fuel fill cap is missing, or loose.
- Blinks when engine misfiring is detected.

### What to do when the indicator lamp comes on

Avoid high speeds and immediately get your vehicle inspected at a dealer.

### What to do when the indicator lamp blinks

Park the vehicle in a safe place with no flammable items and wait at least 10 minutes or more with the engine stopped until it cools.

## Tighten Fuel Cap Message

### The message appears on when:

An evaporative system leak is detected. This may be caused by the fuel fill cap being loose or not being installed.

### What to do when the message appears:

1. Stop the engine.
2. Check if the fuel fill cap is fully installed.
  - If not, loosen the cap, and then retighten it until it clicks at least once.
3. Drive for several days of normal driving.
  - The message should go off.

### When the malfunction indicator lamp comes on

Malfunction indicator lamp comes on if the system continues to detect a leak of the gasoline vapor. If this happens, follow the procedures described earlier to check the fuel fill cap.

## If the Malfunction Indicator Lamp Comes On or Blinks

### NOTICE

If you drive with the malfunction indicator lamp on, the emissions control system and the engine could be damaged.

If the malfunction indicator lamp blinks again when restarting the engine, drive to the nearest dealer at 31 mph (50 km/h) or less. Have your vehicle inspected.

## If the Brake System Indicator (Red) Comes On



### Reasons for the indicator to come on

- The brake fluid is low.
- There is a malfunction in the brake system.



### What to do when the indicator comes on while driving

Press the brake pedal lightly to check pedal pressure.

- If normal, check the brake fluid level the next time you stop.
- If abnormal, take immediate action. If necessary, downshift the transmission to slow the vehicle using engine braking.

## If the Speed-Sensitive Electric Power Steering (EPS) System Indicator Comes On



### Reasons for the indicator to come on

- Comes on when there is a problem with the EPS system.
- If you depress the accelerator pedal repeatedly to increase the engine speed while the engine is idling, the indicator comes on, and sometimes the steering wheel becomes harder to operate.

### What to do when the indicator comes on

Stop the vehicle in a safe place and restart the engine.

If the indicator comes on and stays on, immediately have your vehicle inspected by a dealer.

### 1 If the Brake System Indicator (Red) Comes On

Have your vehicle repaired immediately. It is dangerous to drive with low brake fluid. If there is no resistance from the brake pedal, stop immediately in a safe place. If necessary downshift the gears.

If the brake system indicator and **ABS** indicator come on simultaneously, the electronic brake distribution system is not working. This can result in vehicle instability under sudden braking. Have your vehicle inspected by a dealer immediately.

## If the Low Tire Pressure/TPMS Indicator Comes On or Blinks



### ■ Reasons for the indicator to come on or blink

A tire pressure is significantly low. If there is a problem with the TPMS or the compact spare tire\* is installed, the indicator blinks for about one minute, and then stays on.

### ■ What to do when the indicator comes on

Stop your vehicle in a safe place. Check the tire pressure and adjust the pressure to the specified level. The specified tire pressure is on a label on the driver side doorjamb.

### ■ What to do when the indicator blinks

Have the tire inspected by a dealer as soon as possible. If the compact spare tire\* causes the indicator to blink, change the tire to a full-size tire. The indicator goes off after driving for a few miles (kilometers).

### 1 If the Low Tire Pressure/TPMS Indicator Comes On or Blinks

#### NOTICE

Driving on an extremely underinflated tire can cause it to overheat. An overheated tire can fail. Always inflate your tires to the prescribed level.

## Fuses

### Fuse Locations

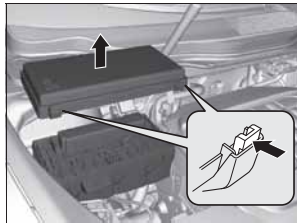
If any electrical devices are not working, set the power mode to VEHICLE OFF (LOCK) and check to see if any applicable fuse is blown.

#### ■ Engine Compartment Fuse Box

There are two fuse boxes in the engine compartment.

Fuse locations are shown on the fuse box cover. Locate the fuse in question by the fuse number and box cover number.

Located near the brake fluid reservoir. Push the tabs to open the box.



\* Not available on all models

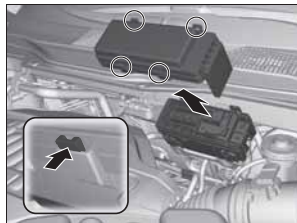
#### ■ Circuit protected and fuse rating

	Circuit Protected	Amps
1	–	–
2	–	–
3	ACG FR	15 A
4	IG1 Washer	15 A
5	IG1 VBSOL	7.5 A
6	IG1 ECU FR	7.5 A
7	–	–
8	FI SUB	15 A
9	DBW	15 A
10	FI Main	15 A
11	IG Coil	15 A
12	DRL R	10 A
13	DRL L	10 A
14	INJ	20 A
15	Radio	20 A

	Circuit Protected	Amps
16	Back Up	10 A
17	MG Clutch	7.5 A
18	Front Fog*	(20 A)
19	–	–
20	Right Headlight High Beam	7.5 A
21	–	–
22	Small	10 A
23	–	–
24	Left Headlight High Beam	7.5 A
25	–	–
26	Right Headlight Low Beam	10 A
27	Left Headlight Low Beam	10 A
28	IGPS Oil LVL	7.5 A
29	Cooling Fan	30 A
30	Sub Fan	30 A
31	WIP Main	30 A

Handling the Unexpected

Located near the battery. Push the tabs to open the box.



Handling the Unexpected

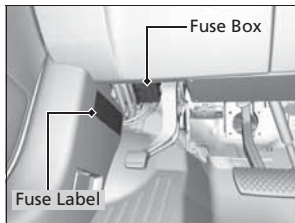
■ Circuit protected and fuse rating

	Circuit Protected	Amps
1	Main Fuse	150 A
	VSA MTR	40 A
	VSA FSR	20 A
	Stop/Horn/Hazard	30 A
2	Rear Blower/BMS	30 A
	FI Main	40 A
	Rear F/B 2	60 A
	AS F/B 2	60 A
	EPS	60 A
3	H/L Washer	30 A
	IG1B Main	30 A
	R/B Main	60 A
	DR F/B 1	50 A
	AS F/B 1	50 A
	Rear F/B 1	60 A
	IG1A Main	30 A
DR F/B 2	50 A	

	Circuit Protected	Amps
4	STM 4	30 A
5	Front Blower	40 A
6	Rear Def	40 A
7	IG Main 1	40 A
8	Stop & Horn	20 A
9	Hazard	15 A
10	BMS	7.5 A
11	-	-

**Driver's Side Interior Fuse Box**

Located under the dashboard.



Fuse locations are shown on the label on the side panel.

Locate the fuse in question by the fuse number and label number.

**■ Circuit protected and fuse rating**

	Circuit Protected	Amps
1	Passenger's Side Door Lock	10 A
2	Rear Passenger's Side Door Lock	7.5 A
3	Driver's Side Door Lock	7.5 A
4	Passenger's Door Unlock	10 A
5	Rear Passenger's Side Door Unlock	7.5 A

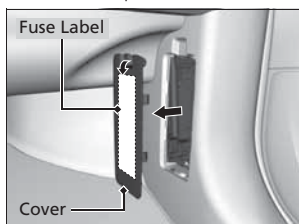
	Circuit Protected	Amps
6	Driver's Side Door Unlock	7.5 A
7	Door Lock Main	20 A
8	HAC OP	10 A
9	ETS TELE	20 A
10	IG1 RR Box	15 A
11	IG1 Meter	7.5 A
12	IG1 FR Box	20 A
13	ACC	7.5 A
14	-	-
15	Driver's Power Seat Sliding	20 A
16	Moonroof	20 A
17	Rear Driver's Side Power Window	20 A
18	SMART	10 A
19	Driver's Power Window	20 A
20	-	-
21	Fuel Pump	20 A
22	AS Box	15 A
23	VSA	7.5 A
24	ACG AS	7.5 A
25	STRLD	7.5 A

	Circuit Protected	Amps
26	IG2 HAC	7.5 A
27	IG2 DRL	7.5 A
28	ACC Key Lock	7.5 A
29	Driver Power Lumber	7.5 A
30	Interior Lights Cut	7.5 A
31	ETS TILT	20 A
32	Driver's Power Seat Reclining	20 A
33	-	-
34	-	-

Handling the Unexpected

### Passenger's Side Interior Fuse Box

Located on the lower side panel. Take off the cover to open.



Fuse locations are shown on the cover.

Handling the Unexpected

### ■ Circuit protected and fuse rating

	Circuit Protected	Amps
1	Right e-pretensioner*	(30 A)
2	Rear Passenger's Side Power Window	20 A
3	ACM	20 A
4	Front DEF*	(15 A)
5	AVS/Seat Heaters	20 A
6	Front Passenger's Power Window	20 A
7	Passenger's Power Seat Sliding	20 A
8	Passenger's Power Seat Reclining	20 A
9	Passenger's Lumber*	(7.5 A)
10	-	-
11	HSW*	(10 A)
12	-	-
13	-	-
14	Rear Accessory Power Socket	20 A
15	Console Accessory Power Socket	20 A

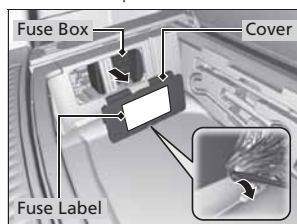
	Circuit Protected	Amps
16	-	-
17	-	-
18	Premium AMP	30 A
19	SRS1	10 A
20	Passenger's ECU	7.5 A
21	SVTM4	7.5 A
22	-	-
23	-	-
24	IG1 OPDS	7.5 A
25	Illumination	7.5 A
26	Left e-pretensioner*	(30 A)
27	Front Accessory Power Socket	20 A
28	AC Inverter	(30 A)



**Rear Fuse Box**

Located on the left side of cargo area. Remove the cover by prying on the edge of the cover using a flat-tip screwdriver.

- ↳ Wrap the flat-tip screwdriver with a cloth to prevent scratches.



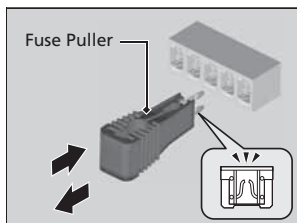
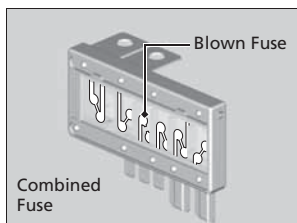
Fuse locations are shown on the cover. Locate the fuse in question by the fuse number and box cover number.

**Circuit protected and fuse rating**

	Circuit Protected	Amps
1	Power Tailgate Closer	20 A
2	Trailer Small Light*	(20 A)
3	-	-
4	Fuel Lid	7.5 A
5	Seat Slide	20 A
6	-	-
7	Rear H/Seat*	(20 A)
8	-	-
9	Trailer Charge*	(20 A)
10	Trailer Back Light*	(7.5 A)
11	Trailer Hazard*	(7.5 A)
12	Rear Wiper	10 A
13	ECU RR	7.5 A
14	-	-
15	-	-
16	-	-
17	Trailer E-Brake*	(20 A)
18	Power Tailgate Motor	40 A

\* Not available on all models

## Inspecting and Changing Fuses



1. Set the power mode to VEHICLE OFF (LOCK). Turn headlights and all accessories off.
2. Remove the fuse box cover.
3. Check the large fuse in the engine compartment.
  - ▢ If the fuse is blown, use a Phillips-head screwdriver to remove the screw and replace it with a new one.
4. Inspect the small fuses in the engine compartment and the vehicle interior.
  - ▢ If there is a burned out fuse, remove it with the fuse puller and replace it with a new one.

### 1 Inspecting and Changing Fuses

#### NOTICE

Replacing a fuse with one that has a higher rating greatly increases the chances of damaging the electrical system.

Replace fuse with a spare fuse of the same specified amperage  
Confirm the specified amperage using the charts on P. 469 to P. 473.

There is a fuse puller on the back of the engine compartment fuse box cover.

## Emergency Towing

Call a professional towing service if you need to tow your vehicle.

### All models

#### ■ Flat bed equipment

The operator loads your vehicle on the back of a truck.

**This is the best way to transport your vehicle.**

### 2WD models

#### ■ Wheel lift equipment

The tow truck uses two pivoting arms that go under the front tires and lift them off the ground. The rear tires remain on the ground. **This is an acceptable way to tow your vehicle.**

### 1 Emergency Towing

#### NOTICE

Trying to lift or tow your vehicle by the bumpers will cause serious damage. The bumpers are not designed to support the vehicle's weight.

#### NOTICE

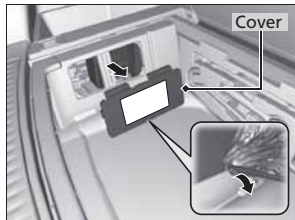
Improper towing such as towing behind a motorhome or other motor vehicle can damage the transmission.

Never tow your vehicle with just a rope or chain. It is very dangerous since ropes or chains may shift from side to side or break.

## When You Cannot Unlock the Fuel Fill Door

### What to Do When Unable to Unlock the Fuel Fill Door

If you cannot unlock the fuel fill door, use the following procedure.



1. Open the tailgate.
2. Lift the cargo floor lid by the handle in the center.
3. Remove the cargo floor box and set it aside.
4. Wrap a cloth around the flat-tip screwdriver. Put it into the cover slot as shown in the image, and remove the cover.



5. Pull the release lever toward you.
  - The release lever unlocks the fuel fill door when it is pulled.

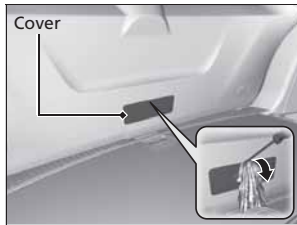
### 1 What to Do When Unable to Unlock the Fuel Fill Door

After taking these steps, contact a dealer to have the vehicle checked.

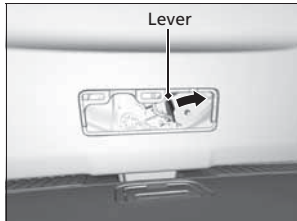
## When You Cannot Open the Tailgate

### What to Do When Unable to Open the Tailgate

If you cannot open the tailgate, use the following procedure.



1. Wrap a cloth around the flat-tip screwdriver. Put it into the cover as shown in the image, and remove the cover.



2. To open the tailgate, push the tailgate while sliding the lever to the right.

### 1 What to Do When Unable to Open the Tailgate

After taking these steps, contact a dealer to have the vehicle checked.

When you open the tailgate from inside, make sure there is enough space around the tailgate, and it does not hit anyone or any object.





# Information

This chapter includes your vehicle's specifications, locations of identification numbers, and other information required by regulation.

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## Specifications

### ■ Vehicle Specifications

Model	Acura MDX	
No. of Passengers:		
Front	2	
Rear	2nd Row	3
	3rd Row	2
Total	7	
Weights:		
Gross Vehicle Weight Rating	U.S.:	5,368 lbs (2,435 kg) <sup>*1</sup> 5,677 lbs (2,575 kg) <sup>*2</sup>
	Canada:	2,575 kg
Gross Axle Weight Rating (Front)	U.S.:	2,811 lbs (1,275 kg) <sup>*1</sup> 2,910 lbs (1,320 kg) <sup>*2</sup>
	Canada:	1,320 kg
Gross Axle Weight Rating (Rear)	U.S.:	2,734 lbs (1,240 kg) <sup>*1</sup> 2,965 lbs (1,345 kg) <sup>*2</sup>
	Canada:	1,345 kg
Gross Combined Weight Rating	U.S.:	8,036 lbs (3,645 kg) <sup>*1</sup> 9,833 lbs (4,460 kg) <sup>*2</sup>
	Canada:	4,460 kg
Air Conditioning:		
Refrigerant Type	HFC-134a (R-134a)	
Charge Quantity	23.8 – 25.6 oz (675 – 725 g)	
Lubricant Type	RL897PAG	

\*1: 2WD models

\*2: AWD models

### ■ Engine Specifications

Displacement	211.8 cu-in (3,471 cm <sup>3</sup> )	
Spark Plugs	NGK	DILZKR7B11G

### ■ Fuel

Type	Unleaded premium gasoline, Pump octane number of 91 or higher	
Fuel Tank Capacity	19.5 US gal (74 ℓ)	

### ■ Washer Fluid

Tank Capacity	U.S.: 4 US qt (3.8 ℓ) Canada: 6.3 US qt (6.0 ℓ)
---------------	--

### ■ Light Bulbs

Headlights (High/Low Beam)	LED
Front Turn Signal/Side Marker/Parking Lights	28/8W (Amber)
Daytime Running Lights	LED
Side Turn Signal Lights (on Door Mirrors)	LED
Brake Lights	21W
Rear Side Marker Lights	LED
Taillights	LED
Back-Up Lights	21W
Rear Turn Signal Lights	21W
High-Mount Brake Light	LED
Rear License Plate Light	LED
LED Puddle Lights	LED
Interior Lights	
Front, Second Row and Third Row Lights	LED
Front and Rear Ambient Lights	LED
Vanity Mirror Lights	1.4W
Door Courtesy Lights	3.4W
Console Compartment Light	1.4W
Glove Box Light	1.4W
Foot Lights	5W
Cargo Area Lights	5W

### ■ Brake Fluid

Specified	Acura Heavy Duty Brake Fluid DOT 3
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**Automatic Transmission Fluid**

Specified	Acura ATF DW-1(automatic transmission fluid)
Capacity	Change 3.3 US qt (3.1 ℓ)

**Rear Differential Fluid\***

Specified	Acura All Wheel Drive Fluid (DPSF)
Capacity	Change 2.7 US qt (2.5 ℓ)

**Transfer Assembly Fluid\***

Specified	Acura HGO-Type1 to be applied.
Capacity	Change 0.45 US qt (0.43 ℓ)

**Engine Oil**

Recommended	·Genuine Acura Motor Oil 0W-20 ·API Premium-grade 0W-20 detergent oil
Capacity	Change 5.4 US qt (5.1 ℓ)
	Change including filter 5.7 US qt (5.4 ℓ)

**Engine Coolant**

Specified	Acura Long Life Antifreeze/Coolant Type 2
Ratio	50/50 with distilled water
Capacity	1.93 US gal (7.3 ℓ) (change including the remaining 0.19 US gal (0.72 ℓ) in the reserve tank)

**Tire**

Regular	Size	245/60R18 105H <sup>*1</sup> 245/55R19 103H <sup>*2</sup>
	Pressure psi (kPa [kgf/cm <sup>2</sup> ])	35 (240 [2.4])
Compact Spare*	Size	T165/80D17 104M
	Pressure psi (kPa [kgf/cm <sup>2</sup> ])	60 (420 [4.2])
Wheel Size	Regular	18 x 8J <sup>*1</sup> 19 x 8J <sup>*2</sup>
	Compact Spare*	17 x 4T

\*1: BASE models

\*2: Except BASE models

\* Not available on all models

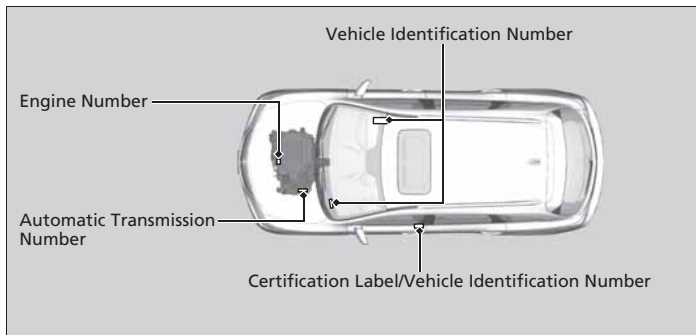
## Identification Numbers

### Vehicle Identification Number (VIN)

Your vehicle has a 17-digit vehicle identification number (VIN) used to register your vehicle for warranty purposes, and for licensing and insuring your vehicle. See the image below for the VIN locations.

### Engine Number and Transmission Number

See the image below for the locations of your vehicle's engine number and transmission number.



#### 1 Vehicle Identification Number (VIN)

The interior vehicle identification number (VIN) is located under the cover.



## Devices that Emit Radio Waves

The following products and systems on your vehicle emit radio waves when in operation.

AcuraLink
Audio System
Blind Spot Information System
Bluetooth® Audio
Bluetooth® HandsFreeLink®
HomeLink® Universal Transceiver
Collision Mitigation Braking System™
Immobilizer System
Remote Transmitter
Keyless Access System
Tire Pressure Monitoring System (TPMS)

Each of the above complies with the appropriate requirements or the required standards of FCC (Federal Communications Commission) and Industry Canada Standard, described below:

As required by the FCC:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada Standard RSS-Gen/210/310. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## Reporting Safety Defects

In the U.S.

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying American Honda Motor Co., Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or American Honda Motor Co., Inc.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

In Canada

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Honda Canada Inc. and you may also inform Transport Canada.

If Transport Canada receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may lead to a recall and remedy campaign. However, Transport Canada cannot become involved in individual problems between you, your dealer, or Honda Canada Inc.

To contact Transport Canada's Defect Investigations and Recalls Division, you may call 1-800-333-0510. For more information on reporting safety defects or about motor vehicle safety, go to <http://www.tc.gc.ca/roadsafety>.

## Emissions Testing

### Testing of Readiness Codes

Your vehicle uses "readiness codes," as part of its onboard self diagnostic system. Some states refer to these codes during testing to see if your vehicle's emissions components are working properly. The codes may not be read if you go through the testing just after the battery has gone dead or been disconnected.

To check if they are set, set the power mode to ON, without starting the engine. The malfunction indicator lamp will come on for several seconds. If it then goes off, the readiness codes are set. If it blinks five times, the readiness codes are not set.

If you are required to have your vehicle tested before the readiness codes are ready, prepare the vehicle for retesting by doing the following:

1. Fill the gas tank to approximately 3/4 full.
2. Park the vehicle and leave the engine off for 6 hours or more.
3. Make sure the ambient temperature is between 40°F and 95°F (4°C and 35°C).
4. Start the engine without touching the accelerator pedal, and let it idle for 20 seconds.
5. Keep the vehicle in *P*. Increase the engine speed to 2,000 rpm, and hold it there for about 3 minutes.
6. Let the engine idle with your foot off the accelerator for 20 seconds.

#### 1 Testing of Readiness Codes

The readiness codes are erased when the battery is disconnected, and set again only after several days of driving under a variety of conditions.

If a testing facility determines that the readiness codes are not set, you may be requested to return at a later date to complete the test.

If the testing facility determines the readiness codes are still not set, see a dealer.

7. Select a nearby, lightly traveled major highway where you can maintain a speed of 50 to 60 mph (80 to 97 km/h) for at least 20 minutes. Drive on the highway in D . Do not use cruise control. When traffic allows, drive for 90 seconds without moving the accelerator pedal. (Vehicle speed may vary slightly; this is okay.) If you cannot do this for a continuous 90 seconds because of traffic conditions, drive for at least 30 seconds, then repeat it two more times (for a total of 90 seconds).
8. Drive in city/suburban traffic for at least 10 minutes. When traffic conditions allow, let the vehicle coast for several seconds without using the accelerator pedal or the brake pedal.
9. Park the vehicle and leave the engine off for 30 minutes.

## Warranty Coverages

### ■ U.S. Owners

Your new vehicle is covered by these warranties:

***New Vehicle Limited Warranty*** – covers your new vehicle, except for the emissions control systems and accessories, against defects in materials and workmanship.

***Emissions Control Systems Defects Warranty and Emissions Performance Warranty*** – these two warranties cover your vehicle's emissions control systems. Time, mileage, and coverage are conditional. Please read your warranty booklet for exact information.

***Seat Belt Limited Warranty*** – a seat belt that fails to function properly is covered by a limited warranty. Please read your warranty booklet for details.

***Rust Perforation Limited Warranty*** – all exterior body panels are covered for rust-through from the inside for the specified time period with no mileage limit.

***Accessory Limited Warranty*** – Acura accessories are covered under this warranty. Time and mileage limits depend on the type of accessory and other factors. Please read your warranty booklet for details.

***Replacement Parts Limited Warranty*** – covers all Acura replacement parts against defects in materials and workmanship.

**Replacement Battery Limited Warranty** – provides prorated coverage for a replacement battery purchased from a dealer.

**Replacement Muffler Lifetime Limited Warranty** – provides coverage for as long as the purchaser of the muffler owns the vehicle.

Restrictions and exclusions apply to all these warranties. Please read the Acura warranty information booklet that came with your vehicle for precise information on warranty coverages. Your vehicle's original tires are covered by their manufacturer. Tire warranty information is in a separate booklet.

■ **Canadian Owners**

Please refer to the warranty manual that came with your vehicle.



## Authorized Manuals

### ■ Service Express

For electronic copies of service publications, you can purchase a subscription to Service Express. Visit [www.techinfo.honda.com](http://www.techinfo.honda.com) for pricing and options.

### ■ For U.S. Owners:

Manuals be purchased from Helm Incorporated. You can order a manual by phone at (800) 782-4356 (credit card orders only), or online at [www.helminc.com](http://www.helminc.com).

### 1 Authorized Manuals

#### **For Canadian Owners:**

Please contact a dealer to order any manuals that you may require.

## Client Service Information

Acura dealer personnel are trained professionals.

They should be able to answer all your questions. If you encounter a problem that your dealership does not solve to your satisfaction, please discuss it with the dealership's service manager or general manager. If you are dissatisfied with the decision made by the dealership's management, contact Acura Client Relations/ Services.

### U.S. Owners:

American Honda Motor Co., Inc.  
Acura Client Relations  
Mail Stop 500-2N-7E  
1919 Torrance Blvd.  
Torrance, CA 90501-2746  
Tel: (800) 382-2238

### Canadian Owners:

Honda Canada Inc.  
Acura Client Services  
180 Honda Boulevard  
Markham, ON  
L6C 0H9  
Tel: 1-888-9-ACURA-9  
Fax: 1-877-939-0909  
E-Mail: [acura\\_cr@ch.honda.com](mailto:acura_cr@ch.honda.com)

### In Puerto Rico and the U.S. Virgin Islands:

Bella International  
P.O. Box 190816  
San Juan, PR 00919-0816  
Tel: (787) 620-7546

### 1 Client Service Information

When you call or write, please give us the following information:

- Vehicle Identification Number
  - 2 **Vehicle Identification Number (VIN)**  
P. 482
- Date of purchase
- Odometer reading of your vehicle
- Your name, address, and telephone number
- A detailed description of the problem
- Name of the dealer who sold the vehicle to you

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