

## ***SECTION 1- 10***

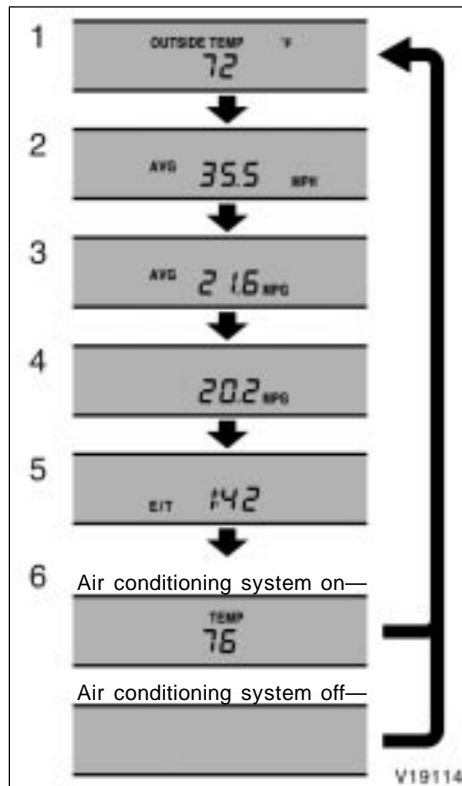
### **OPERATION OF INSTRUMENTS AND CONTROLS**

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For information about the clock of a vehicle equipped with Navigation system, please refer to the separate "Navigation System Owner's Manual".

## Multi-information display



The multi-information display indicates the following information.

1. Outside temperature
2. Average vehicle speed
3. Average fuel consumption
4. Instantaneous fuel consumption
5. Driving time
6. Air conditioning system on—The air conditioned temperature is displayed.  
Air conditioning system off—The air conditioned temperature is not displayed.

Every time you push the “INFO” button, the display toggles through this information.

The displayed values in the multi-information display indicate general driving conditions. Accuracy varies with driving habits and road conditions.

You can adjust the air conditioned temperature while the multi-information is operating. 5 seconds has been passed after adjusting the temperature or pushing the “INFO” button, the display will be back to the multi-information display.

### 1. Outside temperature (“OUTSIDE TEMP”)

The outside temperature display indicates the outside air temperature.

The displayed temperature ranges from -22°F (-30°C) up to 122°F (50°C).

If an abnormality exists in the connection of the outside air temperature sensor, “- - °F” (“- - °C”) will appear on the display. If “- - °F” (“- - °C”) appears on the display, contact your Toyota dealer.

There may be a case that “- - °F” (“- - °C”) appears momentarily when the ignition is quickly turned to “ON”. It is normal if it goes out soon.

### 2. Average vehicle speed (“AVG MPH” or “AVG km/h”)

Average vehicle speed is calculated and displayed based on total driving distance and total driving time with the engine running.

The displayed value is updated every 10 seconds.

To reset the calculation, push the “INFO” button for more than 1 second.

**3. Average fuel consumption  
("AVG MPG" or "AVG L/100 km")**

**Average fuel consumption is calculated and displayed based on total driving distance and total fuel consumption with the engine running.**

The displayed value is updated every 10 seconds.

**4. Instantaneous fuel consumption  
("MPG" or "L/100 km")**

**The instantaneous fuel consumption is calculated and displayed based on distance and fuel consumption for 1 second with the engine running.**

The displayed value is updated every 2 seconds.

Note that an accurate figure may not be shown in the following cases.

- The vehicle is stopped with the engine running. (The display will indicate the extremely high fuel consumption.)
- The vehicle is driving down a long slope applying the engine brake. (The display will indicate the extremely low fuel consumption.)

The calculation is reset when the ignition switch is turned off.

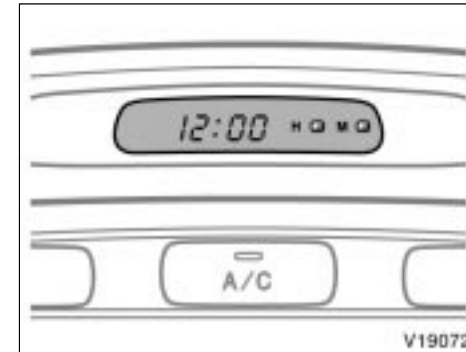
**5. Driving time ("E/T")**

**The elapsed time after the engine starts is displayed.**

When the engine is started, driving time is counted from 0:00. Up to 11:59 (11 hours, 59 minutes) can be displayed. When the driving time exceeds 11:59, the counter returns to 0:00.

The calculation is reset when the ignition switch is turned off.

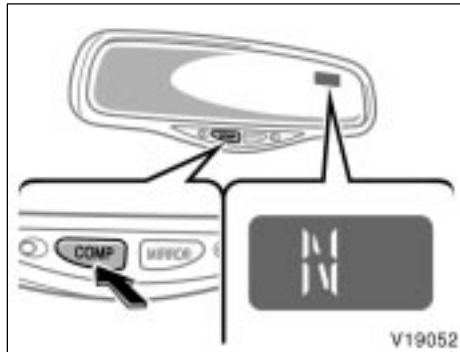
**Clock**



To reset the hour: Push the "H" button.  
To reset the minutes: Push the "M" button.  
The key must be in the "ACC" or "ON" position.

If the electrical power source has been disconnected from the clock, the time display will automatically be set to 1:00 (one o'clock).

## Compass



**The direction is indicated on the inside rear view mirror.**

If the ignition switch was turned off with the system on, the system will automatically turn back on when the ignition switch is turned on.

Push the "COMP" switch to turn the compass system on and off.

**The compass indicates the direction that the vehicle is heading. In the above case, it shows that the vehicle is heading north.**

Displays	Directions
N	North
NE	Northeast
E	East
SE	Southeast
S	South
SW	Southwest
W	West
NW	Northwest

The compass may not show the correct direction in the following conditions:

- The vehicle is stopped immediately after turning.
- The compass does not adjust while the vehicle is stopped.
- The ignition switch is turned off immediately after turning.
- The vehicle is on an inclined surface.

- The vehicle is in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground parking, under a steel tower, between buildings, roof parking, near a crossing, near a large vehicle, etc.).

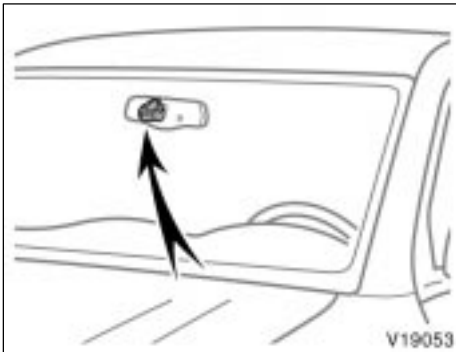
- The vehicle is magnetized. (There is a magnet or a metal object on or near the inside rear view mirror.)

- The battery has been disconnected.

If your vehicle is out of the set zone, refer to "CALIBRATING THE COMPASS" below to set the zone number.

If the deviation is small, the compass works to calibrate the direction automatically while the vehicle is in motion.

For additional precision or for complete calibrating, see "CALIBRATING THE COMPASS" below.

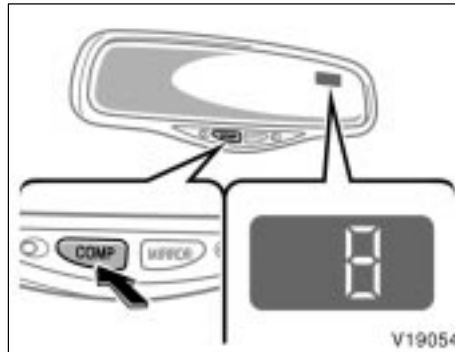


Compass sensor

The compass sensor is in the inside rear view mirror.

**NOTICE**

*Do not put magnets or a metal object on or near the inside rear view mirror of the vehicle. Doing this may cause malfunction of the compass sensor.*

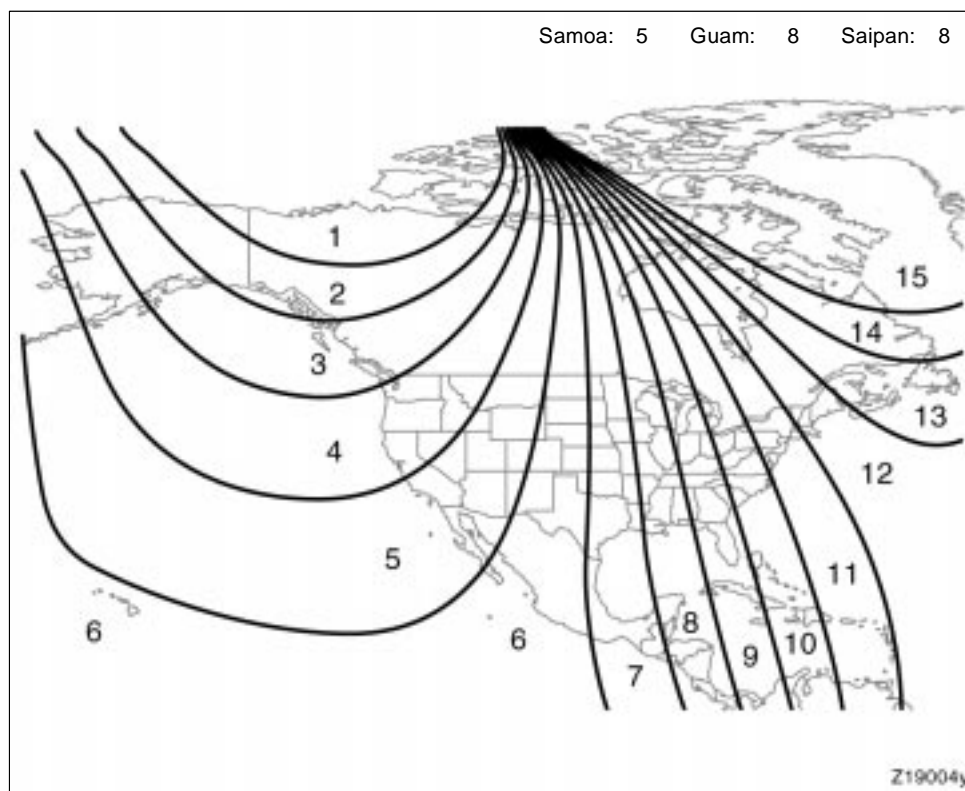


**CALIBRATING THE COMPASS (deviation calibration)**

The direction display on the compass deviates from the true direction determined by the earth's magnetic field. The angle of deviation varies according to the geographic position of the vehicle.

To adjust this deviation, stop the vehicle, then push and hold the "COMP" switch until the zone number appears on the display. Then push the "COMP" switch, referring to the following map to select the number of the zone where the vehicle is.

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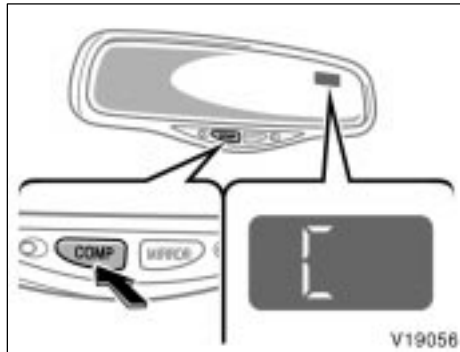
Zone number

270

After calibration, leaving the system for several seconds returns it to the compass mode.

### CAUTION

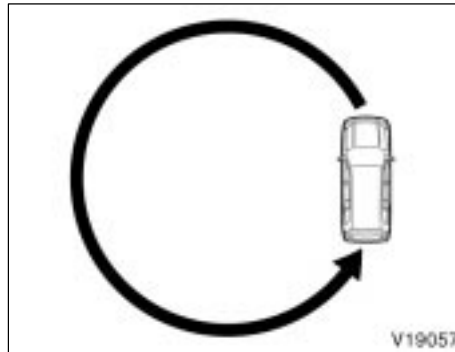
Do not adjust the display while the vehicle is moving. Be sure to adjust the display only when the vehicle is stopped.



**CALIBRATING THE COMPASS (circling calibration)**

Sometimes the direction display on the compass may not change after a turn. To rectify this, stop the vehicle and push and hold the "COMP" switch until "C" appears on the display.

If "C" appears on the display because of a drastic change in the magnetic field, perform circling calibration.



Drive the vehicle in a circle at 8 km/h (5 mph) or less. If there is not enough space to drive in a circle, drive around the block.

After driving 1 to 3 circles in the above method, calibration is completed when the direction is shown on the display.

If calibration cannot be performed because of the magnetized vehicle etc., take your vehicle to Toyota dealer.

**Perform circling calibration just after you have purchased your Toyota. And then always perform circling calibration after the battery has been removed, replaced or disconnected.**

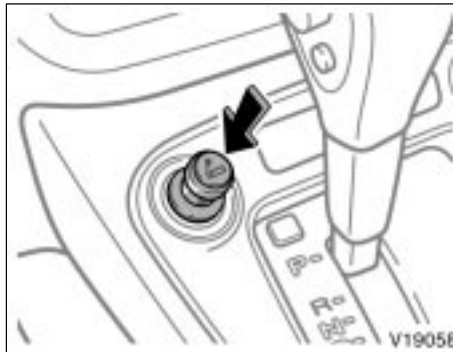
- Do not perform circling calibration of the compass in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground parking, under a steel tower, between buildings, roof parking, near a crossing, near a large vehicle, etc.).
- During calibration, do not operate electric systems (moon roof, power windows, etc.) as they may interfere with the calibration.



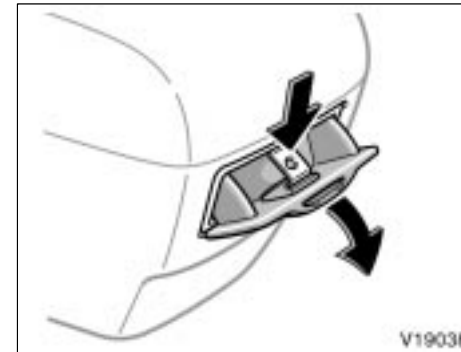
**CAUTION**

- When doing the circling calibration, be sure to secure a wide space, and watch out for people and vehicles in the neighborhood. Do not violate any local traffic rules while performing circling calibration.
- Do not adjust the display while the vehicle is moving. Be sure to adjust the display only when the vehicle is stopped.

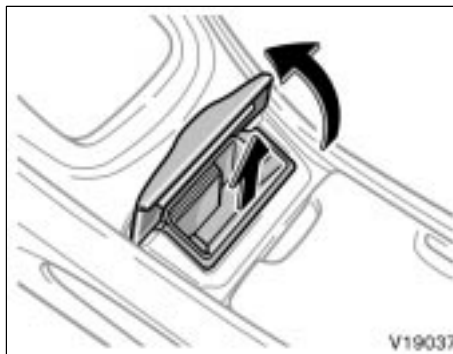
**Cigarette lighter and ashtrays**



Cigarette lighter



Rear ashtray



Front ashtray

**CIGARETTE LIGHTER**

To use the cigarette lighter, press it in. After it finishes heating up, it automatically pops out ready for use.

If the engine is not running, the key must be in the "ACC" position.

Do not hold the cigarette lighter pressed in.

Use a Toyota genuine cigarette lighter or equivalent for replacement.



#### ASHTRAYS

**Front ashtray:** To use the ashtray, open the lid.

When finished with your cigarette, thoroughly extinguish it in the ashtray to prevent other cigarette butts from catching fire. After using the ashtray, close the lid completely.

To remove the ashtray, pull the lid and pull it out.

**Rear ashtray:** To use the ashtray, pull it out.

When finished with your cigarette, thoroughly extinguish it in the ashtray to prevent other cigarette butts from catching fire. After using the ashtray, close the lid completely.

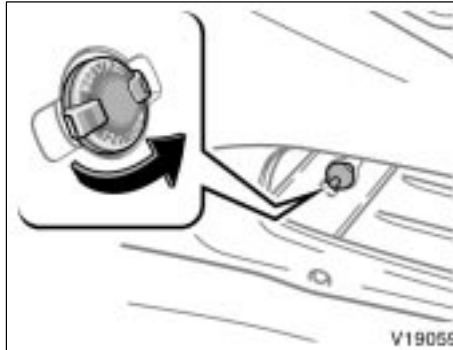
To remove the ashtray, press down on the lock spring plate and pull out.



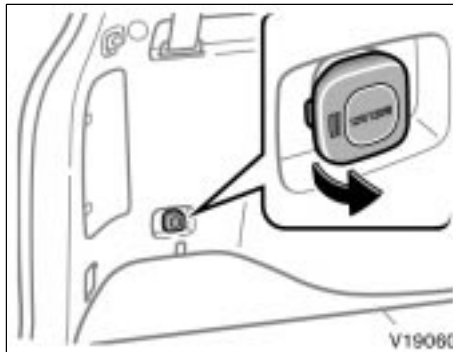
#### CAUTION

To reduce the chance of injury in case of an accident or sudden stop while driving, always completely close the ashtray after use.

#### Power outlets (12 VDC)



Front



Rear

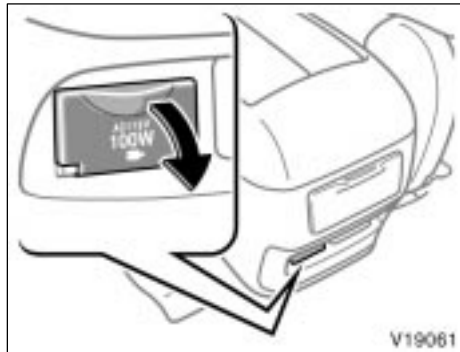
The power outlets (12 VDC) are designed for power supply for car accessories.

The key must be in the "ACC" or "ON" position for the power outlets to be used.

#### NOTICE

- ◆ To prevent the fuse from being blown, do not use the electricity over the total vehicle capacity of 12VDC/120W (front and rear outlets together).
- ◆ To prevent the battery from being discharged, do not use the power outlets longer than necessary when the engine is not running.
- ◆ Close the power outlet lids when the power outlets are not in use. Inserting a foreign object other than the appropriate plug that fits the outlet, or allowing any liquid into the outlet may cause electrical failure or short circuits.

### Power outlet (115 VAC)



This power outlet (115 VAC) is designed for use as a power supply for electric appliances in the vehicle.

The key must be in the "ON" position for the power outlet to be used.

The maximum capacity for this power outlet is 115 VAC/100W. If you attempt to use an appliance that requires more than 115 VAC or 100W, the protection circuit will activate and cut the power supply. The power supply will restart automatically when you use an appliance that operates within the 115 VAC/100W limits.



#### Main switch

To use the power outlet, push the main switch on the instrument panel.

An indicator light will illuminate to indicate that the power outlet is ready for use.

Push the main switch once again to turn the power outlet off. When the power outlet is not in use, make sure that the main switch is turned off.

#### NOTICE

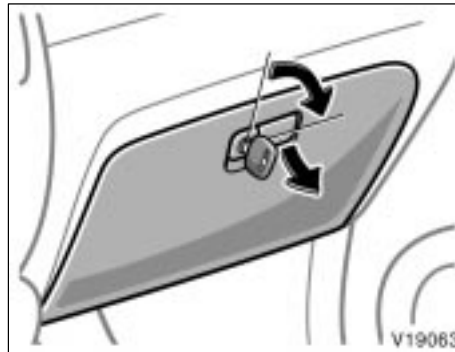
- ◆ To prevent the battery from being discharged, do not use the power outlet longer than necessary when the engine is not running.
- ◆ Close the power outlet lid when the power outlet is not in use. Inserting anything other than an appropriate plug that fits the outlet may cause electrical failure or short circuits.

The power outlet is not designed for the following electric appliances even though their power consumption is under 115 VAC/100W. These appliances may not operate properly.

- Appliances with high initial peak wattage: cathode-ray tube type televisions, compressor-driven refrigerators, electric pumps, electric tools, etc.
- Measuring devices which process precise data: medical equipment, measuring instruments, etc.
- Other appliances requiring an extremely stable power supply: microcomputer-controlled electric blankets, touch sensor lamps, etc.

**Certain electrical appliances may cause radio noise.**

### Glove box



**To use the glove box, do this.**

To open: Pull the lever.

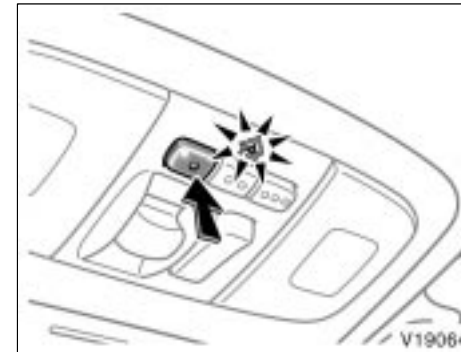
With the instrument panel lights on, the glove box light will come on when the glove box is open.

To lock: Insert the master key and turn it clockwise.



**To reduce the chance of injury in case of an accident or a sudden stop, always keep the glove box door closed while driving.**

### Garage door opener



The garage door opener (**HomeLink®** Universal Transceiver) is manufactured under license from HomeLink® and can be programmed to operate garage doors, gates, entry doors, door locks, home lighting systems, and security systems, etc.

**(a) Programming the HomeLink®**

**The HomeLink® in your vehicle has 3 buttons and you can store one program for each button.**

To ensure correct programming into the HomeLink®, install a new battery in the hand-held transmitter prior to programming.

The battery side of the hand-held transmitter must be pointed away from the HomeLink® during the programming process.

For Canadian users, follow the procedure in "Programming an entrance gate/programming all devices in the Canadian market".

1. Decide which of 3 HomeLink® buttons you want to program.
2. Place your hand-held garage transmitter 25 to 75 mm (1 to 3 in.) away from the surface of the HomeLink®.

Keep the indicator light on the HomeLink® in view while programming.

3. Simultaneously press and hold the hand-held garage transmitter button along with the selected HomeLink® button.
4. When the indicator light on the HomeLink® changes from a slow to a rapid flash after 20 seconds, you can release both buttons.
5. Test the operation of the HomeLink® by pressing the newly programmed button. If programming a garage door opener, check to see if the garage door opens and closes.

If the garage door does not operate, identify if your garage transmitter is of the "Rolling Code" type. Press and hold the programmed HomeLink® button. The garage door has the rolling code feature if the indicator light (on the HomeLink®) flashes rapidly and then remains lit after 2 seconds. If your garage transmitter is the "Rolling Code" type, proceed to the heading "Programming a rolling code system".

6. Repeat steps 2 through 5 for each remaining HomeLink® button to program another device.

**Programming a rolling code system**

**If your device is "Rolling Code" equipped, it is necessary to follow steps 1 through 4 under the heading "Programming the HomeLink®" before proceeding with the steps listed below.**

1. Locate the "training" button on the ceiling mounted garage door opener motor. The exact location and color of the button may vary by brand of garage door opener. Refer to the owner's guide supplied by the garage door opener manufacturer for the location of this "training" button.
2. Press the "training" button on the ceiling mounted garage door opener motor.

Following this step, you have 30 seconds in which to initiate step 3 below.

3. Press and release the vehicle's programmed HomeLink® button twice. The garage door may open. If the door does open, the programming process is complete. If the door does not open, press and release the button a third time. This third press and release will complete the programming process by opening the garage door.

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The ceiling mounted garage door opener motor should now recognize the HomeLink® unit and be able activate the garage door up/down.

4. Repeat steps 1 through 3 for each remaining HomeLink® button to program another rolling code system.

### **Programming an entrance gate/programming all devices in the Canadian market**

1. Decide which of the 3 HomeLink® buttons you want to program.
2. Place your hand-held gate/device transmitter 25 to 75 mm (1 to 3 in.) away from the surface of the HomeLink®.

Keep the indicator light on the HomeLink® in view while programming.

3. Press and hold the selected HomeLink® button.
4. Continuously press and release (cycle) the hand-held gate/device transmitter button every two seconds until step 5 is complete.
5. When the indicator light on the HomeLink® changes from a slow to a rapid flash after 20 seconds, you can release both buttons.

6. Test the operation of the HomeLink® by pressing the newly programmed button. Check to see if the gate/device operates correctly.

7. Repeat steps 1 through 6 for each remaining HomeLink® button to program another device.

### **Programming other devices**

To program other devices such as home security systems, home door locks or lighting, contact your authorized Toyota dealer for assistance.

### **Reprogramming a button**

Individual HomeLink® buttons cannot be erased, however, to reprogram a single button, follow the procedure "Programming the HomeLink®".

### **(b) Operating the HomeLink®**

To operate the HomeLink®, press the appropriate HomeLink® button to activate the programmed device. The HomeLink® indicator light should come on. The HomeLink® continues to send the signal for up to 20 seconds as long as the button is pressed.

### **(c) Erasing the entire HomeLink® memory (all three programs)**

To erase all previously programmed codes at one time, press and hold down the 2 outside buttons for 20 seconds until the indicator light flashes.

If you sell your vehicle, be sure to erase the programs stored in the HomeLink® memory.



**CAUTION**

- When programming the HomeLink® Universal Transceiver, you may be operating a garage door or other device. Make sure people and objects are out of the way of the garage door or other device to prevent potential harm or damage.
- Do not use this HomeLink® Universal Transceiver with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards. (This includes any garage door opener model manufactured before April 1, 1982.) A garage door opener which cannot detect an object (signaling the door to stop and reverse), does not meet current federal safety standards. Using a garage door opener without these features increases risk of serious injury or death.

This device complies with Part 15 of the FCC Rules and with RSS-210 of the IC 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.

**WARNING:** This transmitter has been tested and complies with FCC and IC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

**Auxiliary boxes**

To use the auxiliary boxes, open the lids as shown in the following illustrations.



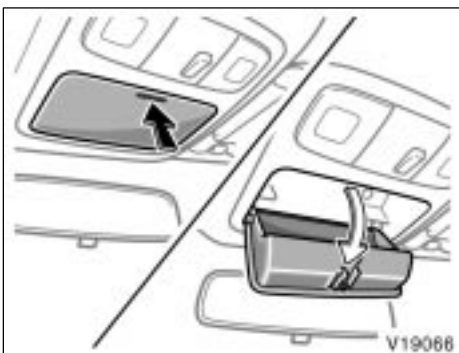
**CAUTION**

- To reduce the chance of injury in case of an accident or sudden stop, always keep the auxiliary box closed while driving.
- Type A—It is designed for holding a light objects, do not place any heavy objects in it. Heavy objects may cause the holder to open and contents to fly out resulting in injuries.

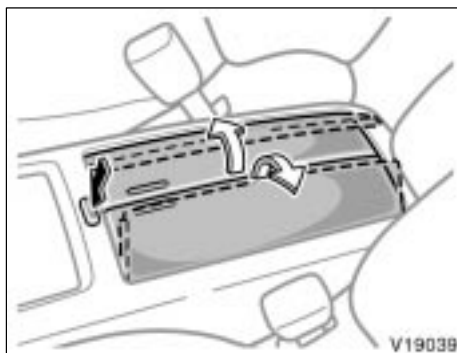
**NOTICE**

*Type A—During hot weather, the interior of the vehicle becomes very hot. Do not leave anything flammable or deformable such as a lighter, glasses, etc. inside.*

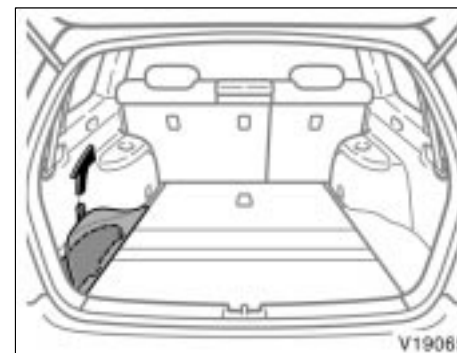
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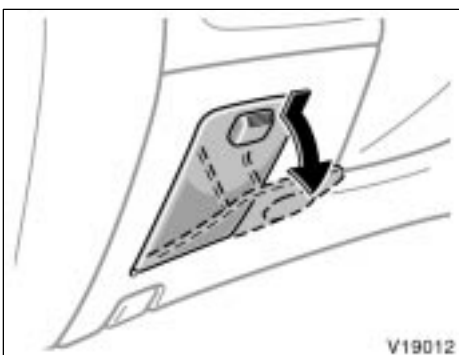
**Type A (ceiling)**



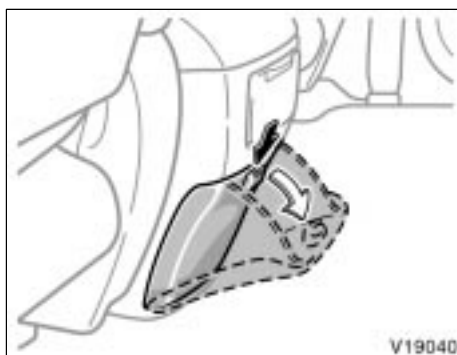
**Type C (rear console)**



**Type E (luggage compartment)**

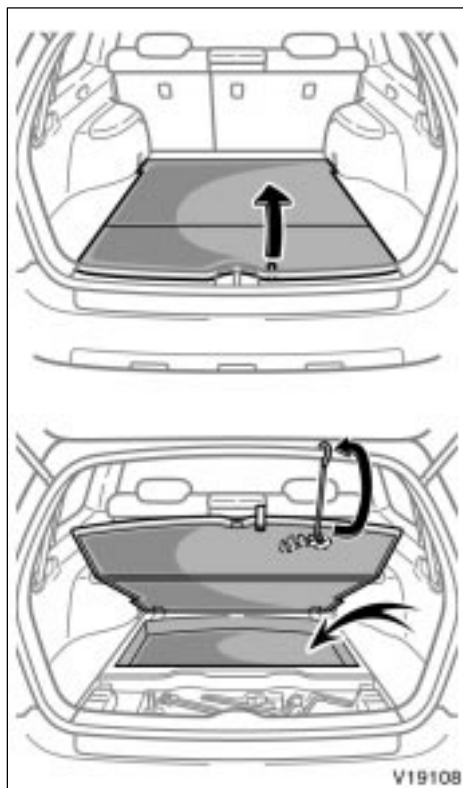


**Type B (instrument panel)**

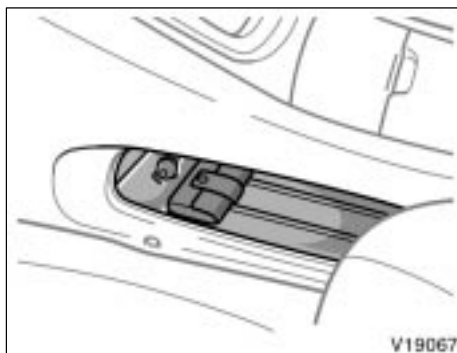


**Type D (rear console)**

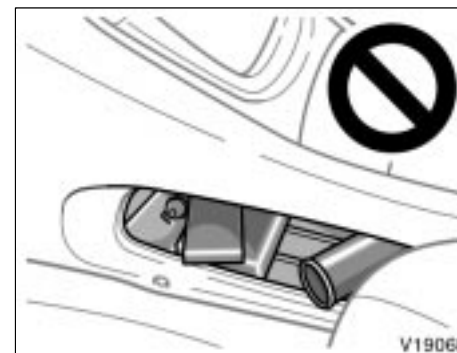
### Container



Type F (luggage compartment)



This container can be used as an auxiliary holder.



### CAUTION

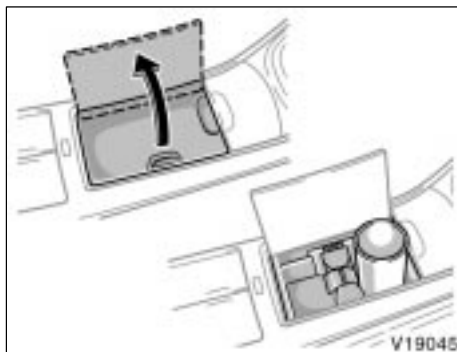
Do not put objects in the container which can shift, roll out or be thrown out in the event of sudden stops or accidents. Objects which come out of the container can create a safety hazard due to interference with pedal operation or driver distraction.

- Do not store drinks or cans which could easily roll out.

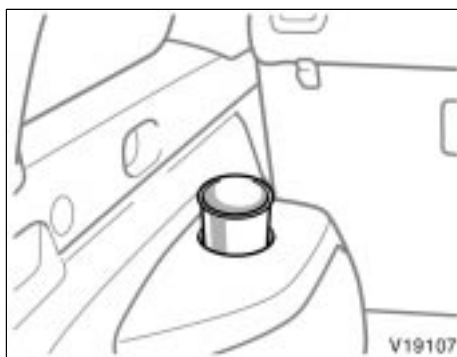


- Do not store objects which are higher than the lower edge of the container.
- Do not store objects which are larger than the width of the container.

### Cup holders



Type A (rear console)



Type B (luggage compartment)



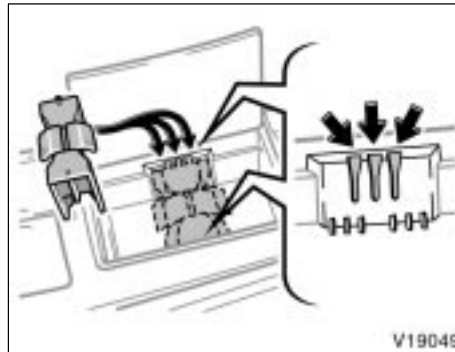
Type C (second seat armrest)

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**The cup holders are designed for holding cups or drink-cans securely.**

Type A—To use the holder, open the lid.

Type C—To use the holder, pull down the second seat armrest and push the button on the armrest.



**Type A only—**

The cup holder can be adjustable to the size of the cups or drink-cans by changing the holder position.

**⚠ CAUTION**

- Do not place anything else other than cups or drink-cans in the cup holder, as such items may be thrown about in the compartment and possibly injure people in the vehicle during sudden braking or in an accident.
- Type A and C—To reduce the chance of injury in case of an accident or sudden stop while driving, keep the cup holder closed when it is not in use.

### Bottle holders



The bottle holders are designed to hold bottles securely.



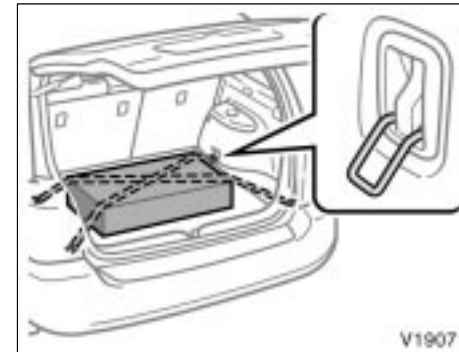
#### CAUTION

Do not attempt to use the holder for any other purpose for which it was intended. Inappropriately sized or shaped objects may be thrown about in the compartment and possibly injure people in the vehicle during a sudden braking or an accident.

#### NOTICE

*Do not put a cup or open bottle in the bottle holder because the contents may spill when the door opens or closes.*

### Tie-down hooks



To secure your luggage, use the tie-down hooks as shown above.

See “—Stowage precautions” on page 313 in Section 2 for precautions when loading luggage.



#### CAUTION

To avoid personal injury, keep the tie-down hooks folded in place on the floor when not in use.

Vehicles with the third seat—When using the tie-down hooks, the third seat must be folded down. (See “—Folding down third seat” on page 51 in Section 1-3.)

**NOTICE**

*Do not use the anchor brackets on the second seat seatback instead of the tie-down hooks.*

**Luggage cover**



**USING LUGGAGE COVER**

To use the luggage cover:

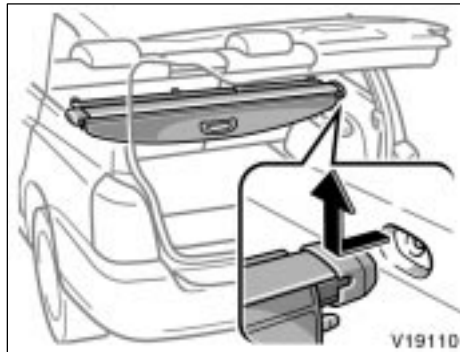
1. Pull out the forward luggage cover and hang the hooks to the hook brackets on the second seat seatback.
2. Pull out the rear luggage cover and secure it to the hook brackets.

**CAUTION**

**Do not place anything on the luggage cover. Such items may be thrown about and possibly injure people in the vehicle during sudden braking or a collision.**

Vehicles with the third seat—When using the luggage cover, the third seat must be folded down. (See “—Folding down third seat” on page 51 in Section 1-3.)

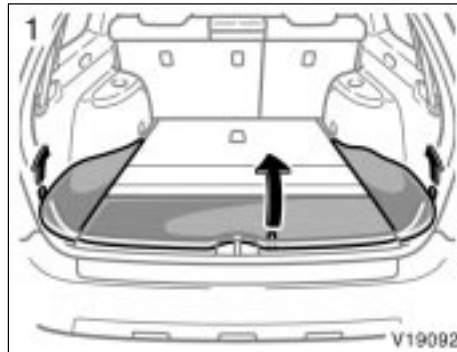
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**REMOVING LUGGAGE COVER**

To remove the luggage cover, push in the left end to release the right end, and lift the luggage cover out.

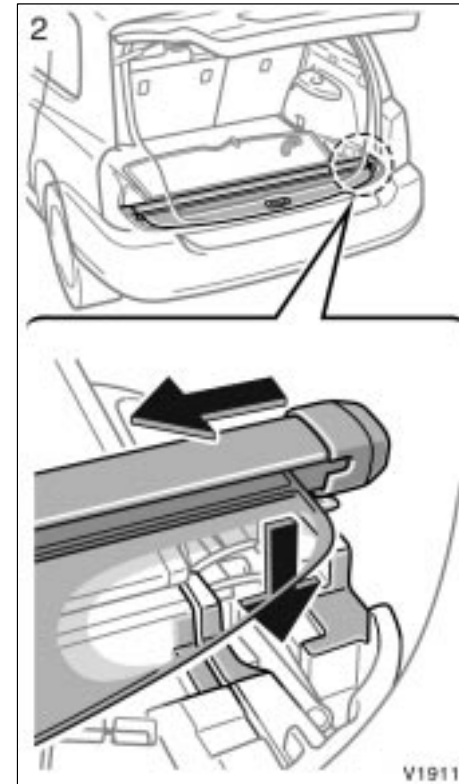
After you remove the luggage cover, stow it under deck board as described below. This will prevent passengers from injury in the event of a sudden stop or accident.



**STOWING LUGGAGE COVER**

To stow the luggage cover, do the following.

1. Remove the side deck boards and open the center deck board.



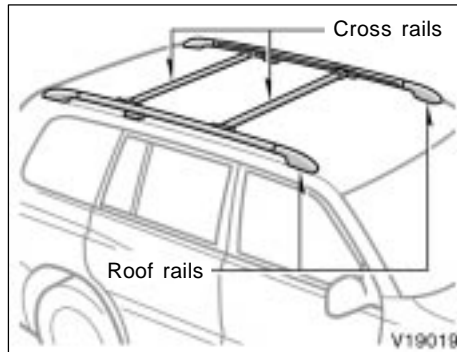
2. Push in the left end of the luggage cover and place the luggage cover in the holder as shown.



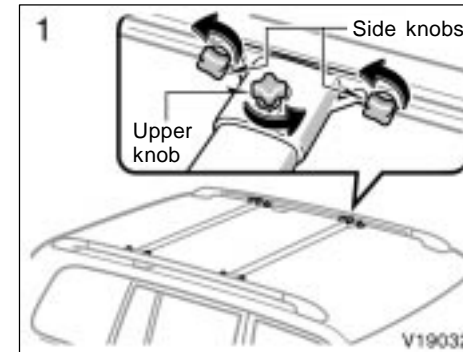
**CAUTION**

Make sure the luggage cover is securely stowed.

### Roof luggage carrier



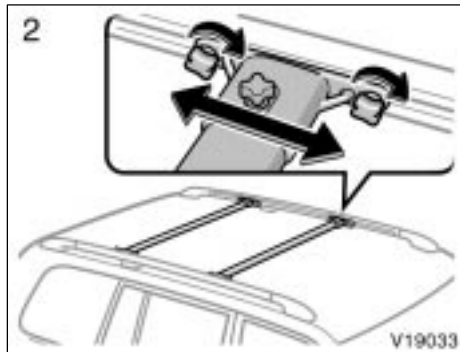
The roof luggage carrier consists of roof rails and sliding cross rails.



#### ADJUSTING THE POSITION OF CROSS RAILS:

1. Turn the upper and side knobs counterclockwise to loosen the cross rails.

## '05 HIGHLANDER\_U (L/O 0409)

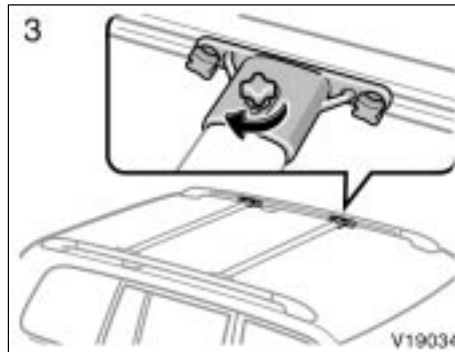


2. Slide the cross rails to the appropriate position for loading the luggages and turn the side knobs clockwise to tighten the cross rails securely.

Vehicles with the electric moon roof—There are cross rail stoppers on the roof rails which help you prevent the cross rails being touched with the tilted up moon roof.

### NOTICE

*Vehicles with the electric moon roof only—Do not remove the cross rail stoppers, or the moon roof may be damaged when it is tilted.*



3. In order to fix the cross rails to the appropriate length, turn the upper knobs clockwise after tightening all of the side knobs.

### CAUTION

Make sure the cross rails are fixed securely by pushing forward and rearward them. Failure to do so may cause an unexpected accident or severe injury in the event of emergency braking or a collision.

Follow the manufacture's instructions and precautions when installing the attachments or their equivalent.

### CAUTION

When you load cargo on the roof luggage carrier, observe the following:

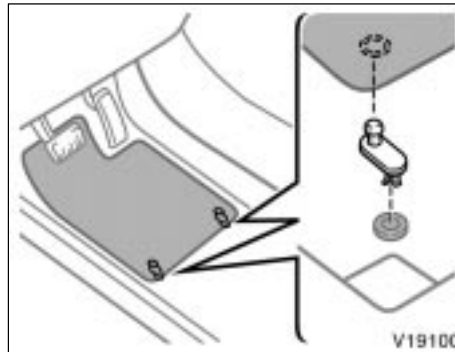
- Place the cargo so that its weight is distributed evenly between the front and rear axles.
- If loading long or wide cargo, never exceed the vehicle overall length or width. (See "Dimensions and weights" on page 406 in Section 8 for information on your vehicle overall length and width.)
- Before driving, make sure the cargo is securely fastened on the roof luggage carrier.
- Loading cargo on the roof luggage carrier will make the center of the vehicle gravity higher. Avoid high speeds, sudden starts, sharp turns, sudden braking or abrupt maneuvers, otherwise it may result in loss of control or vehicle rollover due to failure to operate this vehicle correctly.

- If driving for a long distance, on rough roads, or at high speeds, stop the vehicle now and then during the trip to make sure the cargo remains in its place.
- Do not exceed 45 kg (100 lb.) cargo weight on the roof luggage carrier.

**NOTICE**

*When loading the luggages, be careful not to scratch the surface of the moon roof.*

**Floor mat**



**Use a floor mat of the correct size.**

If the floor carpet and floor mat have 2 holes, then they are designed for use with locking clips. Fix the floor mat with locking clips into the holes in the floor carpet.



**CAUTION**

**Make sure the floor mat is properly placed on the floor carpet. If the floor mat slips and interferes with the movement of the pedals during driving, it may cause an accident.**