

## ***SECTION 1 – 1***

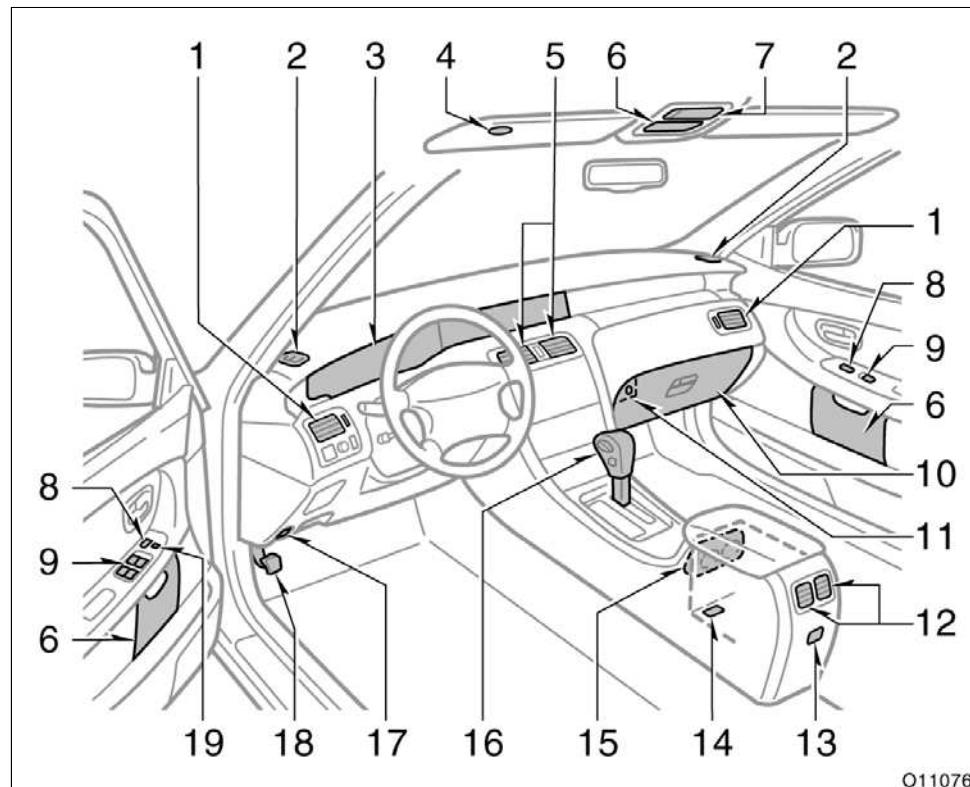
### **OPERATION OF INSTRUMENTS AND CONTROLS**

#### **Overview of instruments and controls**

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**Instrument panel overview**

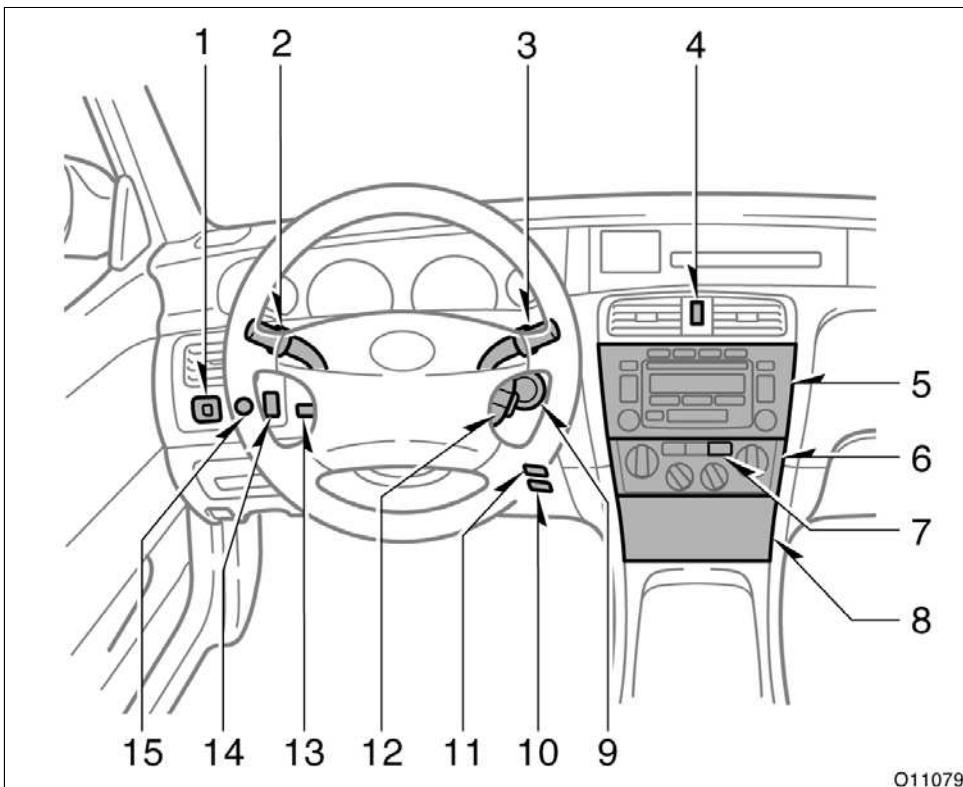
►With bucket front seat (view A)



1. Side vents
2. Side defroster outlets
3. Instrument cluster and/or multi-information display
4. Garage door opener
5. Center vents
6. Auxiliary boxes
7. Front personal light, interior light and/or electric moon roof switch
8. Power door lock switches
9. Power window switches
10. Glove box
11. Trunk opener main switch
12. Rear vents
13. Power outlet (115 VAC)
14. Power outlet (12 VDC)
15. Cup holder
16. Automatic transmission selector lever
17. Hood lock release lever
18. Parking brake pedal
19. Window lock switch

**'03 AVALON U (L/O 0206)**

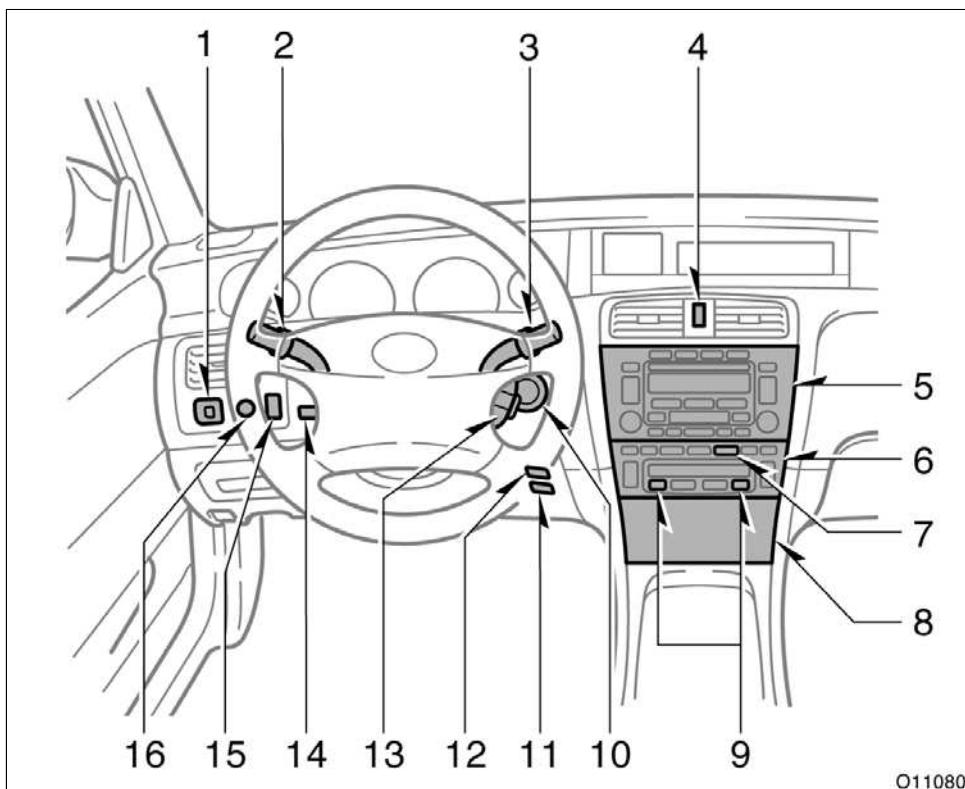
►With bucket front seat (view B with manual air conditioning controls)



1. Power rear view mirror control switches
2. Headlight and turn signal switch and front fog light switch
3. Wiper and washer switches
4. Emergency flasher switch
5. Car audio
6. Air conditioning controls
7. Rear window and outside rear view mirror defogger switch
8. Cigarette lighter and ashtray
9. Ignition switch
10. Power outlet main switch
11. Traction control system off switch
12. Cruise control switch
13. Tilt steering lock release lever
14. Trunk lid lock release switch
15. Instrument panel light control knob

## '03 AVALON U (L/O 0206)

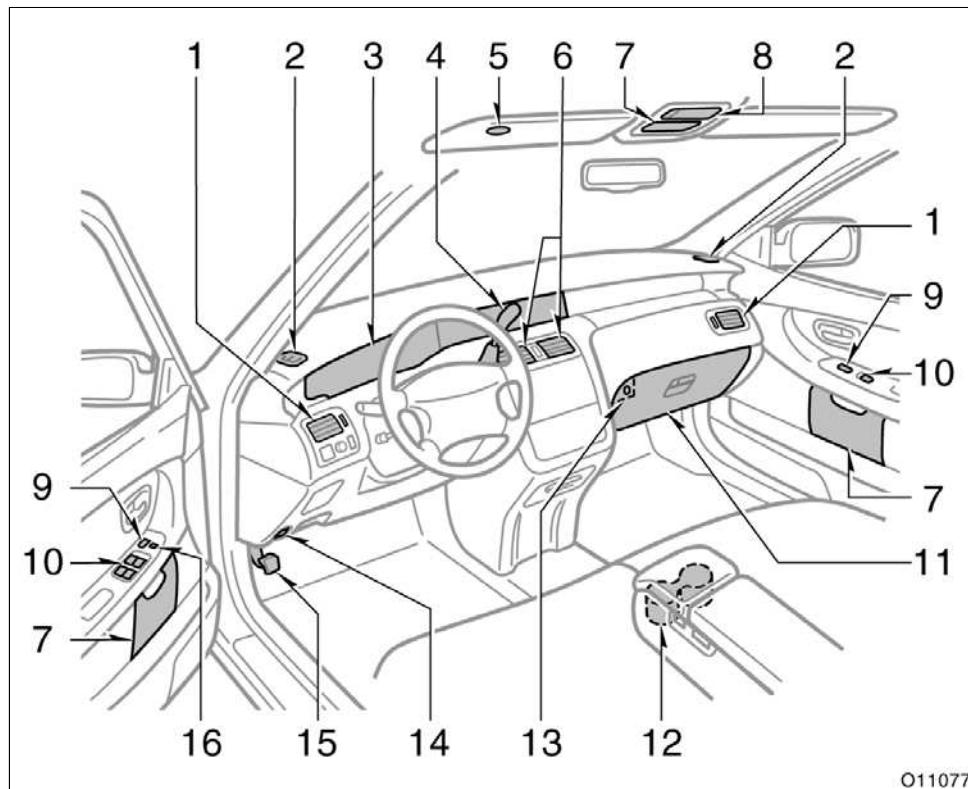
►With bucket front seat (view B with automatic air conditioning controls)



1. Power rear view mirror control switches
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3. Wiper and washer switches
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8. Cigarette lighter and ashtray
9. Seat heater switches
10. Ignition switch
11. Power outlet main switch
12. Traction control system off switch
13. Cruise control switch
14. Tilt steering lock release lever
15. Trunk lid lock release switch
16. Instrument panel light control knob

## '03 AVALON U (L/O 0206)

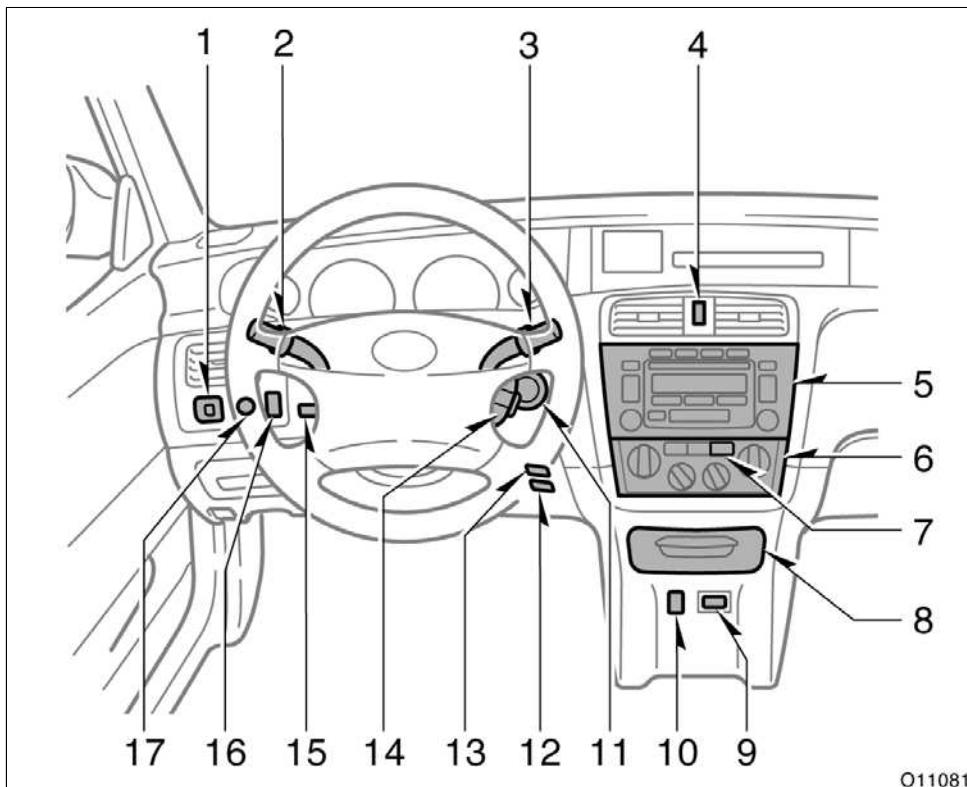
### ►With bench type front seat (view A)



1. Side vents
2. Side defroster outlets
3. Instrument cluster and/or multi-information display
4. Automatic transmission selector lever
5. Garage door opener
6. Center vents
7. Auxiliary boxes
8. Front personal light, interior light and/or electric moon roof switch
9. Power door lock switches
10. Power window switches
11. Glove box
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13. Trunk opener main switch
14. Hood lock release lever
15. Parking brake pedal
16. Window lock switch

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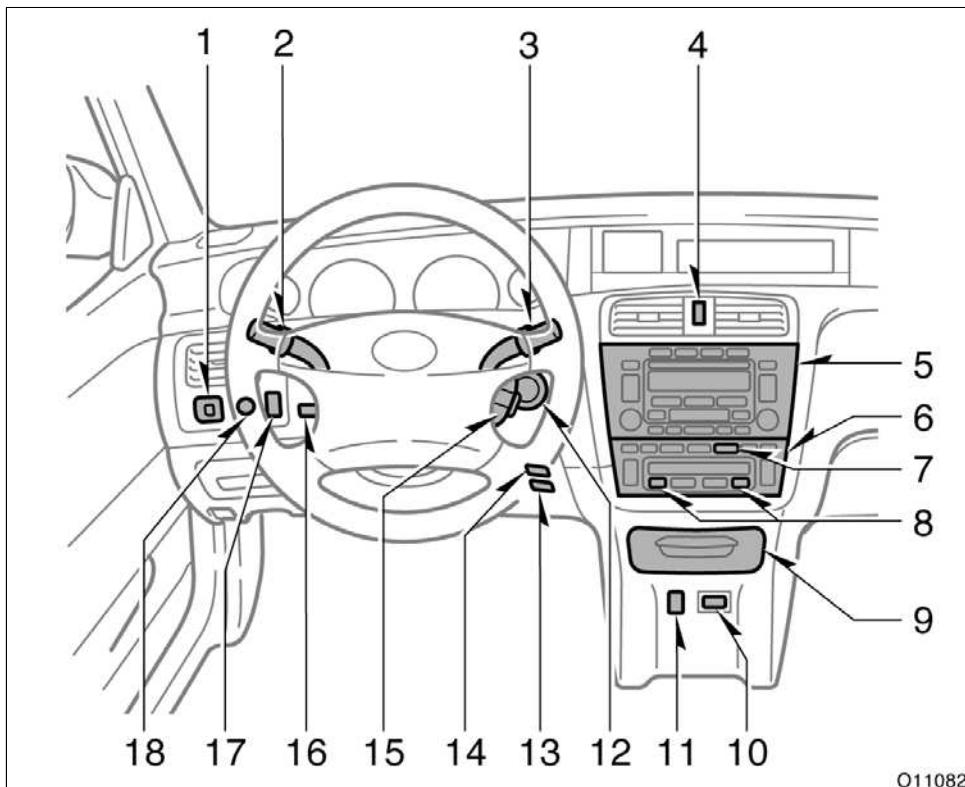
►With bench type front seat (view B with manual air conditioning controls)



1. Power rear view mirror control switches
2. Headlight and turn signal switch and front fog light switch
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## '03 AVALON U (L/O 0206)

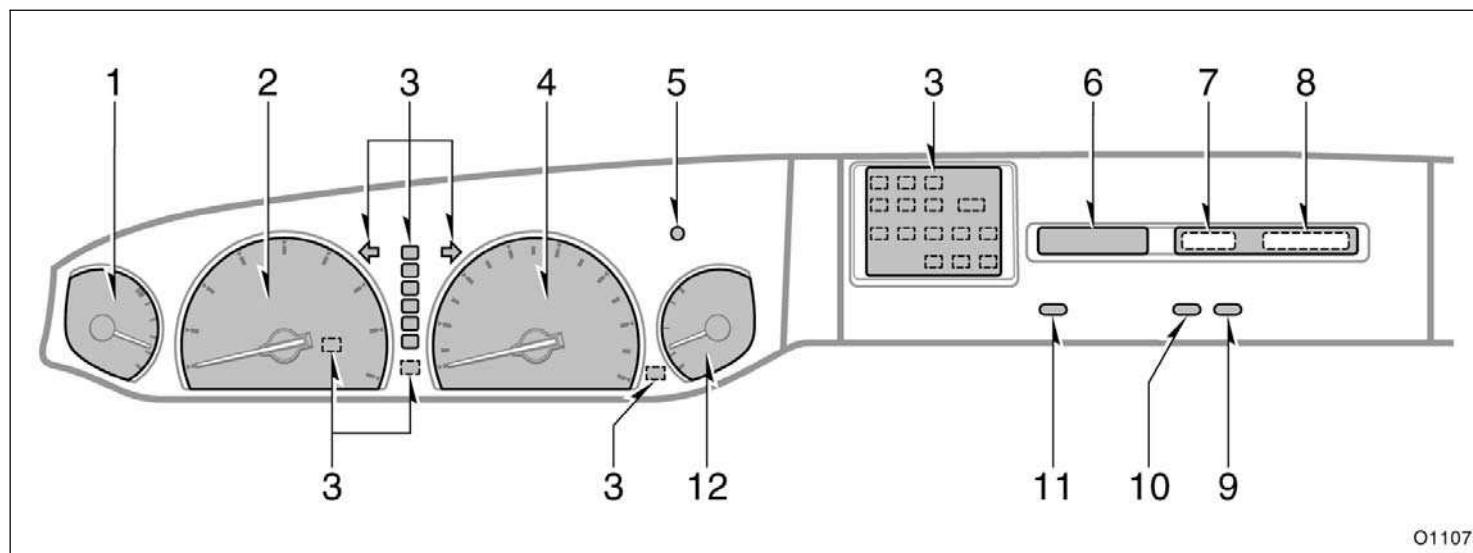
►With bench type front seat (view B with automatic air conditioning controls)



1. Power rear view mirror control switches
2. Headlight and turn signal switch and front fog light switch
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18. Instrument panel light control knob

**Instrument cluster overview**

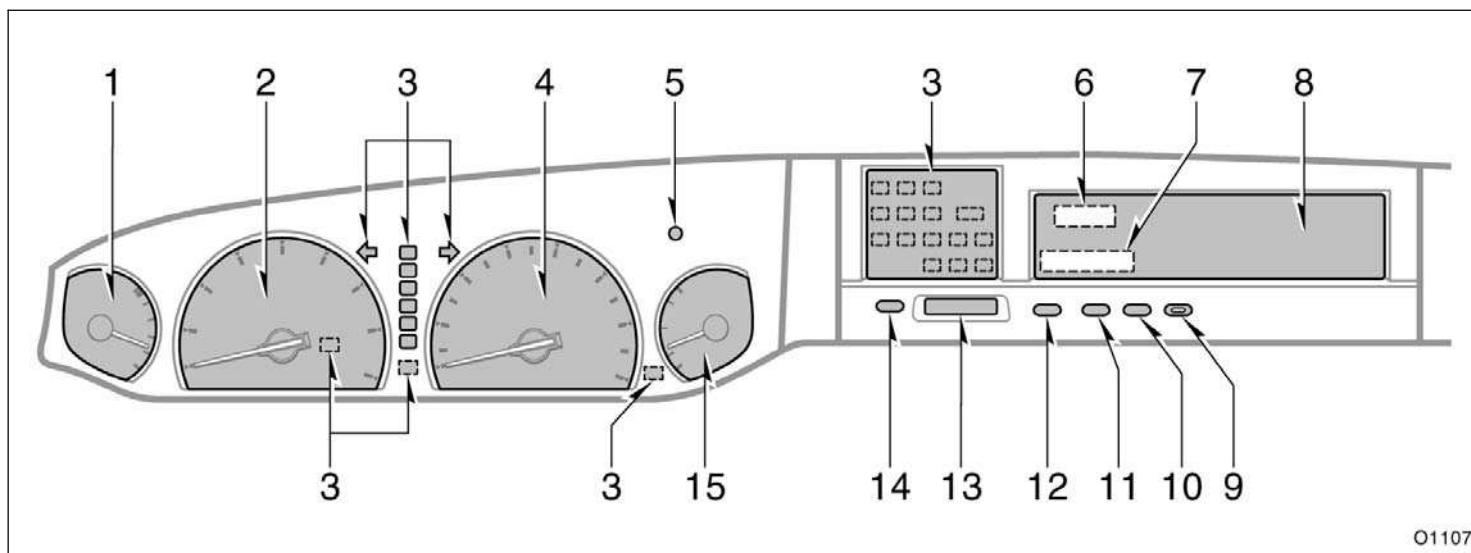
►Type A



- 1. Engine coolant temperature gauge
- 2. Tachometer
- 3. Service reminder indicators and indicator lights
- 4. Speedometer
- 5. Engine immobiliser system indicator light
- 6. Odometer and two trip meters
- 7. Clock
- 8. Outside temperature display
- 9. "ADJ" button\*
- 10. "MODE" button\*
- 11. "ODO/TRIP" button
- 12. Fuel gauge

\*: This button is used to adjust the clock. For details, see "Clock" in Section 1-9.

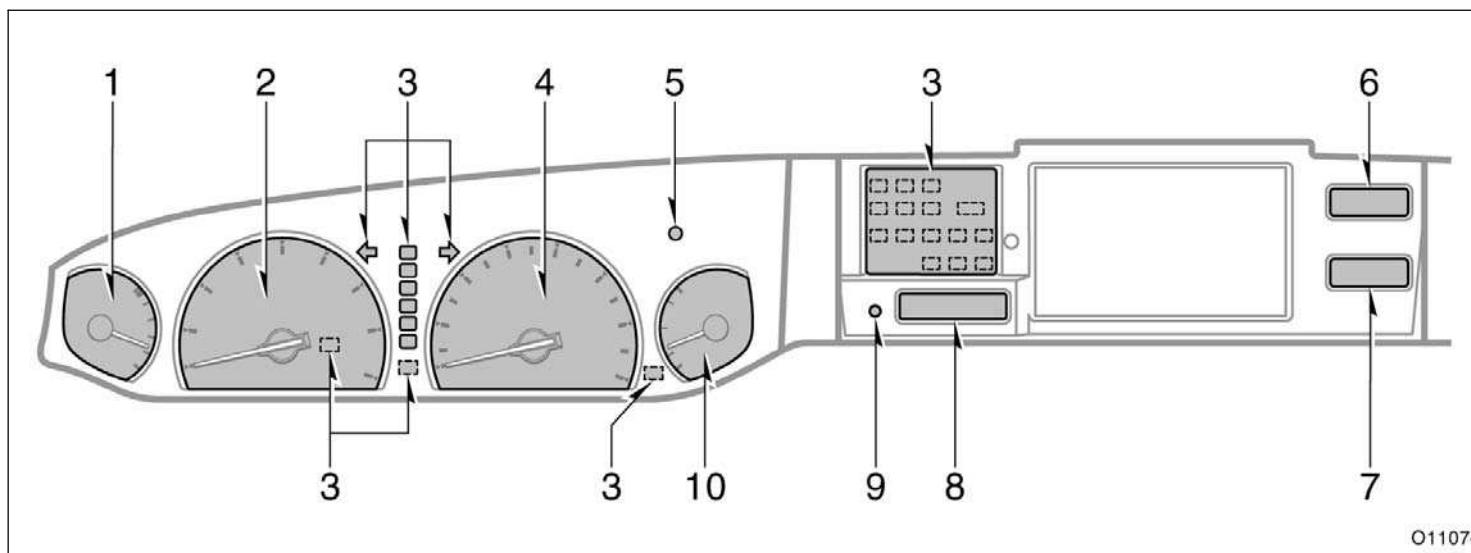
►Type B



1. Engine coolant temperature gauge	6. Clock*	11. "RESET/ADJ" button*
2. Tachometer	7. Outside temperature display*	12. "DISPLAY" button*
3. Service reminder indicators and indicator lights	8. Multi-information display	13. Odometer and two trip meters
4. Speedometer	9. "LIGHT" button*	14. "ODO/TRIP" button
5. Theft deterrent system/Engine immobiliser system indicator light	10. "MODE" button*	15. Fuel gauge

\*: This button is used to operate the multi-information display. For details, see "Multi-information display" in Section 1-9.

►Type C



- 1. Engine coolant temperature gauge
- 2. Tachometer
- 3. Service reminder indicators and indicator lights
- 4. Speedometer
- 5. Theft deterrent system/Engine immobiliser system indicator light
- 6. Clock\*
- 7. Outside temperature display\*
- 8. Odometer and two trip meters
- 9. "ODO/TRIP" button
- 10. Fuel gauge

\*: For details, please refer to the separate "Navigation system Owner's manual".

**Indicator symbols on the instrument panel**

<b>BRAKE</b> or 	Brake system warning light* <sup>1</sup>
	Driver's seat belt reminder light* <sup>1</sup>
<b>PASSENGER</b> 	Front outside passenger's seat belt reminder light* <sup>1</sup>
	Discharge warning light* <sup>1</sup>
	Low engine oil pressure warning light* <sup>1</sup>
	Malfunction indicator lamp* <sup>1</sup>
	Low fuel level warning light* <sup>1</sup>
<b>ABS</b> or 	Anti-lock brake system warning light* <sup>1</sup>
	Open door warning light* <sup>1</sup>
	Rear light failure warning light* <sup>1</sup>
	SRS warning light* <sup>1</sup>
<b>VSC</b>	Vehicle skid control system and traction control system warning light* <sup>1</sup>
	Low windshield washer fluid level warning light* <sup>1</sup>
	Headlight high beam indicator light

	Turn signal indicator lights
<b>P R N D 2 L</b>	Automatic transmission indicator lights
<b>O/D OFF</b>	Overdrive-off indicator light
	Slip indicator light
<b>TRAC OFF</b>	Traction control system off indicator light
<b>CRUISE</b>	Cruise control indicator light <sup>*2</sup>

\*1: For details, see "Service reminder indicators and warning buzzers" in Section 1-5.

\*2: If this light flashes, see "Cruise control" in Section 1-6.

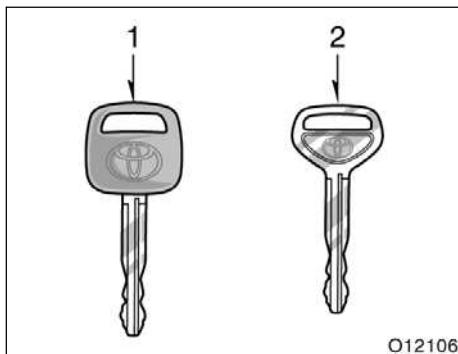
## ***SECTION 1 - 2***

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

#### **Keys and Doors**

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**Keys (without engine immobiliser system)**



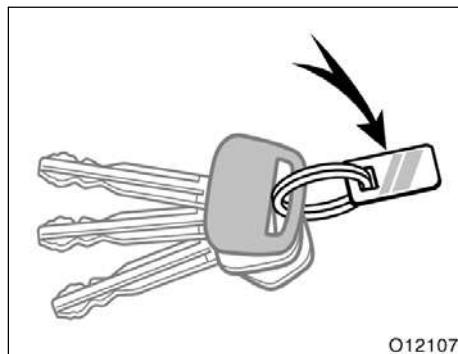
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**Your vehicle is supplied with two kinds of keys.**

1. Master key—This key works in every lock.
2. Sub key—This key will not work in the glove box, trunk and armrest door in the rear seat.

To protect things locked in the glove box or trunk when you have your vehicle parked, leave the sub key with the attendant.

Since the doors and trunk lid can be locked without a key, you should always carry a spare master key in case you accidentally lock your keys inside the vehicle.



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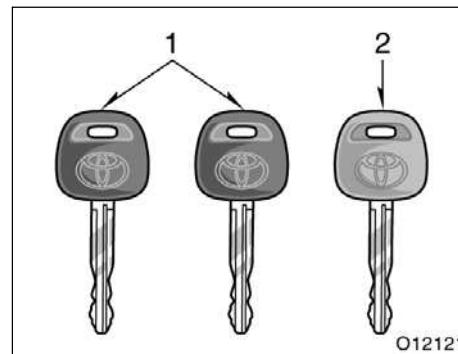
**KEY NUMBER PLATE**

**Your key number is shown on the plate. Keep the plate in a safe place such as your wallet, not in the vehicle.**

If you should lose your keys or if you need additional keys, duplicates can be made by a Toyota dealer using the key number.

We recommend you to write down the key number and keep it in safe place.

**Keys (with engine immobiliser system)**



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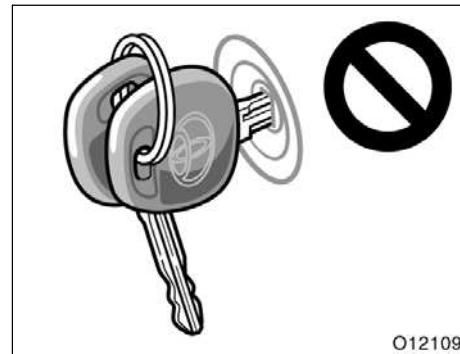
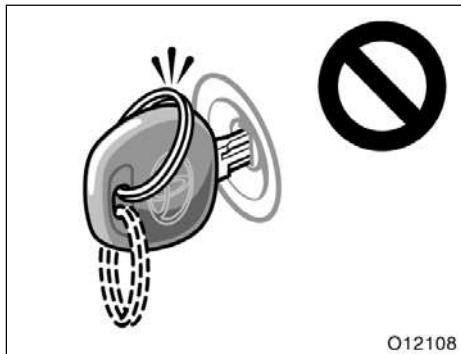
**Your vehicle is supplied with two kinds of keys.**

1. Master key (black)—This key works in every lock. Your Toyota dealer will need it to make you a new key with built-in transponder chip.
2. Sub key (gray)—This key will not work in the glove box, trunk and armrest door in the rear seat.

A transponder chip for engine immobiliser system has been filled in the head of the master and sub keys. These chips are needed to enable the system to function correctly, so be careful not to lose these keys. If you make your own duplicate key, you will not be able to cancel the system or start the engine.

To protect things locked in the glove box or trunk when you have your vehicle parked, leave the sub key with the attendant.

Since the doors and trunk lid can be locked without a key, you should always carry a spare master key in case you accidentally lock your keys inside the vehicle.



**NOTICE**

*When using a key containing a transponder chip, observe the following precautions:*

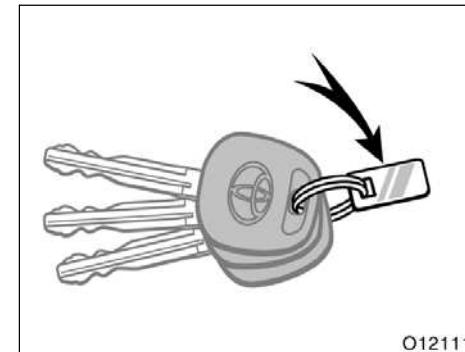
◆ *When starting the engine, do not use the key with a key ring resting on the key grip and do not press the key ring against the key grip. Otherwise the engine may not start, or may stop soon after it starts.*

◆ *When starting the engine, do not use the key with other transponder keys around (including keys of other vehicles) and do not press other key plates against the key grip. Otherwise the engine may not start, or may stop soon after it starts. If this happens, remove the key once and then insert it again after taking off other transponder keys (including keys of other vehicles) from the ring or while gripping or covering them with your hand to start the engine.*



◆ ***Do not bend the key grip.***

- ◆ ***Do not cover the key grip with any material that cuts off electromagnetic waves.***
- ◆ ***Do not knock the key hard against other objects.***
- ◆ ***Do not leave the key exposed to high temperatures for a long period, such as on the dashboard and hood under the direct sunlight.***
- ◆ ***Do not put the key in water or wash it in an ultrasonic washer.***
- ◆ ***Do not use the key with electromagnetic materials.***



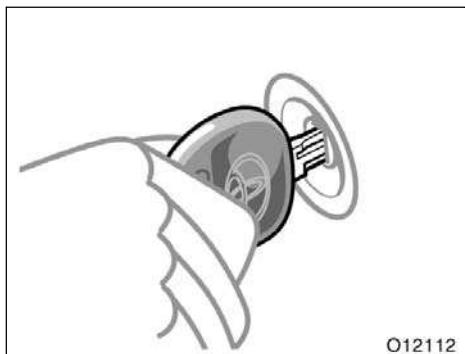
#### KEY NUMBER PLATE

Your key number is shown on the plate. Keep the plate in a safe place such as your wallet, not in the vehicle.

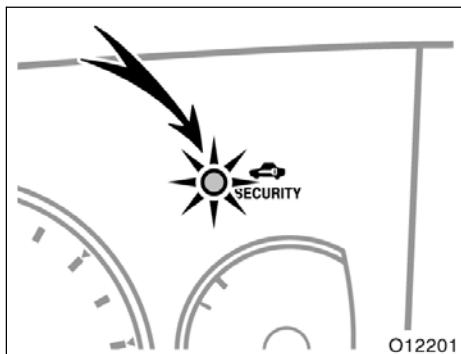
If you should lose your keys or if you need additional keys, duplicates can be made by a Toyota dealer using the key number.

We recommend you to write down the key number and keep it in safe place.

### Engine immobiliser system



The engine immobiliser system is a theft prevention system. When you insert the key in the ignition switch, the transponder chip in the key's head transmits an electronic code to the vehicle. The engine will start, only when the electronic code in the chip corresponds to the registered ID code for the vehicle.



The system is automatically set when the key is removed from the ignition switch. The indicator light will start flashing to show the system is set.

If any of the following indicator conditions occurs, contact your Toyota dealer.

- The indicator light stays on except when the theft deterrent system is setting or activating. (See "Theft deterrent system" in this section.)
- The indicator light does not start flashing when the key is removed from the ignition switch.
- The indicator light flashes unsteady.

Inserting the registered key in the ignition switch automatically cancels the system, which enables the engine to start. The indicator light will go off.

For your Toyota dealer to make you a new key with built-in transponder chip, your dealer will need your key number and master key. However, there is a limit to the number of additional keys your Toyota dealer can make for you.

If you make your own duplicate key, you will not be able to cancel the system or start the engine.

#### NOTICE

*Do not modify, remove or disassemble the engine immobiliser system. If any unauthorized changes or modifications are made, the proper operation of the system cannot be guaranteed.*

**For vehicles sold in U.S.A.**

FCC ID: MOZ RI-4ETY  
MADE IN JAPAN

FCC ID: NT8-15607YU3FXCVR  
MADE IN CANADA

FCC ID: NT8-15607YU3FXCVR  
MADE IN MEXICO

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.

**CAUTION**

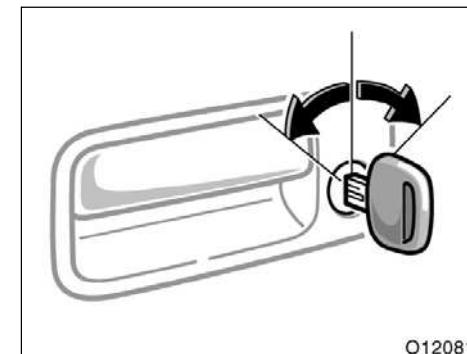
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**For vehicles sold in Canada**

This device complies with RSS-210 of Industry Canada. 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.

**Side doors—**



**LOCKING AND UNLOCKING WITH KEY**

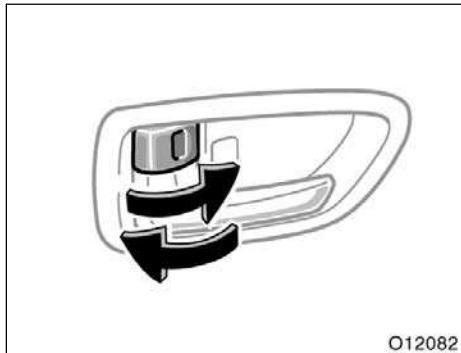
Insert the key into the keyhole and turn it.

To lock: Turn the key forward.

To unlock: Turn the key backward.

All the doors lock and unlock simultaneously with either front door. In the driver's door lock, turning the key once will unlock the driver's door and twice in succession will unlock all the doors simultaneously.

When all the doors are unlocked simultaneously with a key or wireless remote control transmitter, the interior lights and ignition switch light come on for about 15 seconds and then fade out, even if the door is not opened. (For further information, see "Interior light", "Front personal and interior lights" and "Ignition switch light" in Section 1-4.)



#### LOCKING AND UNLOCKING WITH INSIDE LOCK KNOB

##### Move the lock knob.

To lock: Push the knob forward.

To unlock: Pull the knob backward.

The front doors can be opened by pulling the inside handle even if the lock knobs are in the locked position.

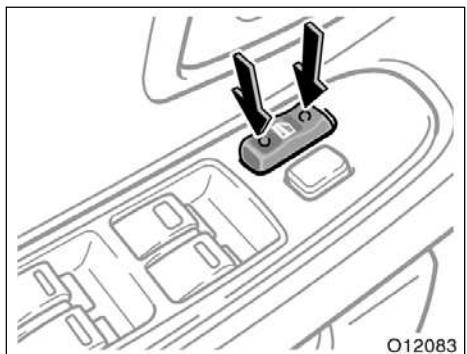
#### ! CAUTION

Do not pull the inside handle of the front doors while driving. The doors will open and an accident may occur. Toyota strongly recommends that all children be placed in the rear seat of the vehicle.

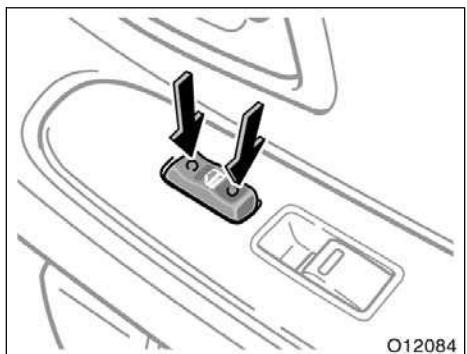
Closing the door with the lock knob in the lock position will also lock the door. Be careful not to lock your keys in the vehicle.

The door cannot be locked if you leave the key in the ignition switch.

If the vehicle is subjected to a severe frontal, rear or side impact with the ignition switch turned to the "ON" position, all doors will unlock automatically after a few seconds.



Driver's side



Passenger's side

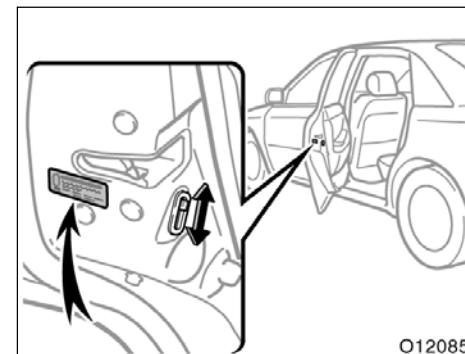
#### LOCKING AND UNLOCKING WITH POWER DOOR LOCK SWITCH

##### Push the switch.

To lock: Push the switch on the front side.

To unlock: Push the switch on the rear side.

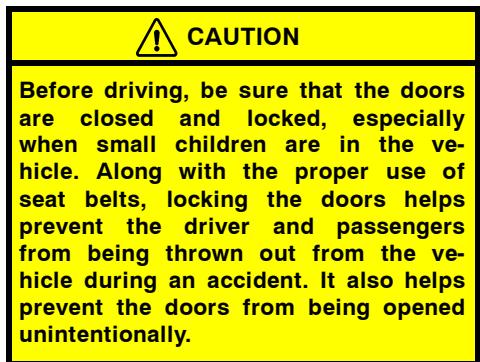
All the doors lock or unlock simultaneously.



#### REAR DOOR CHILD-PROTECTORS

Move the lock knob to the "LOCK" position as shown on the label.

This feature allows you to lock a rear door so it can be opened from the outside only, not from inside. We recommend using this feature whenever small children are in the vehicle.



### —Automatic door locking and unlocking functions

You can select the following modes of the automatic locking and unlocking functions. The initial mode is mode 1.

- **Mode 1—Automatic locking linked with the shift position**

All doors are automatically locked when the selector lever is moved out of the "P" position after the ignition switch is turned to the "ON" position and all the doors are closed.

- **Mode 2—Functions cancelled**

Automatic door locking and unlocking functions do not activate in this mode.

- **Mode 3—Automatic locking and unlocking linked with the shift position**

**Locking function**—All doors are automatically locked when the selector lever is moved out of the "P" position after the ignition switch is turned to the "ON" position and all the doors are closed.

**Unlocking function**—All doors are automatically unlocked when the selector lever is moved to the "P" position when the ignition switch is turned to the "ON" position.

- **Mode 4—Automatic locking and unlocking linked with the shift position and ignition switch**

**Locking function**—All doors are automatically locked when the selector lever is moved out of the "P" position after the ignition switch is turned to the "ON" position and all the doors are closed.

**Unlocking function**—All doors are automatically unlocked when the ignition switch is turned from the "ON" position to the "ACC" or "LOCK" position.

### CHANGING THE MODE

The mode toggles through from mode 1 to mode 4. To change the mode, do the following:

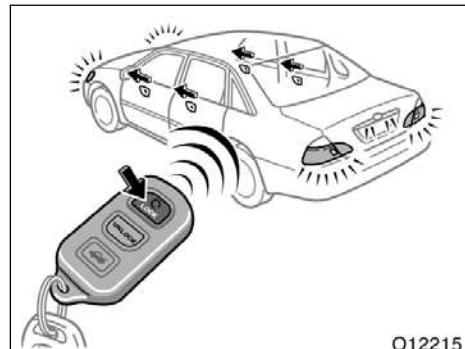
1. Shift the selector lever into the "P" position and close all doors.
2. Push the power door lock switch on the rear side to unlock the doors.
3. Turn the ignition switch to the "ON" position.
4. Within 10 seconds after the ignition switch is turned to the "ON" position, push and hold the power door lock switch on the front side for about 5 seconds.

5. Open door warning light will flash to indicate that the mode has been changed.

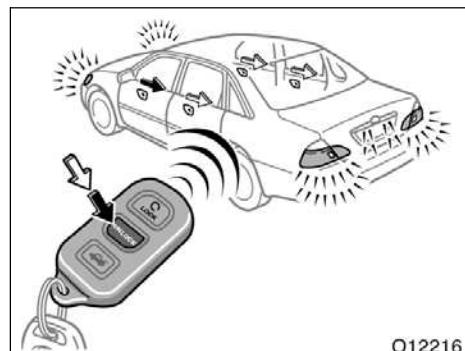
The flashing of the open door warning light indicates the mode which has been selected.

- Flashing once, the function has changed to mode 1.
- Flashing twice, the function has changed to mode 2.
- Flashing three times, the function has changed to mode 3.
- Flashing four times, the function has changed to mode 4.

### —Wireless remote control



Locking operation



Unlocking operation

The wireless remote control system is designed to lock or unlock all the doors, open the trunk lid, or activate the "PANIC" mode from a distance within approximately 1 m (3 ft.) of the vehicle.

#### LOCKING AND UNLOCKING THE DOORS

To lock or unlock all the doors, push the "LOCK" or "UNLOCK" switch of the transmitter slowly and securely.

To lock: Push the "LOCK" switch. All the doors are locked simultaneously. At this time one beep will be heard, and parking lights, side marker lights, license plate lights and tail lights flash once.

Check to see that the doors are securely locked.

If any of the doors is not securely closed, or if the key is in the ignition switch, locking cannot be performed by the "LOCK" switch and a beep will sound continuously for 10 seconds.

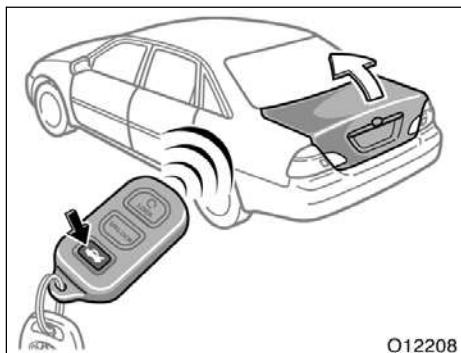
To unlock: Push the "UNLOCK" switch once to unlock the driver's door alone. Pushing the switch twice within 3 seconds unlocks all the doors simultaneously. Each time the "UNLOCK" switch is pushed, two beeps will be heard, and the parking lights, side marker lights, license plate lights and tail lights flash twice.

If the ignition key is in the "ON" position, unlocking cannot be performed by the "UNLOCK" switch.

When all the doors are unlocked simultaneously with a key or wireless remote control transmitter, the interior lights and ignition switch light come on for about 15 seconds and then fade out, even if the door is not opened. (For further information, see "Interior light", "Front personal and interior lights" and "Ignition switch light" in Section 1-4.)

You have 30 seconds to open a door after using the wireless remote unlock feature. If a door is not opened by then, all the doors will be automatically locked again.

If the "LOCK" or "UNLOCK" switch is kept pressed in, the locking or unlocking operation is not repeated. Release the button and then push again.



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#### OPENING THE TRUNK LID

To open the trunk lid, push the trunk lid open switch of the transmitter for 1 second. A long beep will sound.

If the ignition key is in the "ON" position, the trunk lid cannot be opened by the trunk lid open switch.

To open the trunk lid with the master key, see "Trunk lid" in this section.

#### "PANIC" SWITCH

Pushing the "PANIC" switch blows the horn intermittently and flashes the headlights, tail lights and interior light.

The "PANIC" switch is used to deter vehicle theft when you witness anyone attempting to break into or damage your vehicle.

The alarm will last for one minute. To stop alarm midway, do the following:

- Push the "PANIC" switch once again.
- Unlock any doors with the key or wireless remote control transmitter.
- Open the trunk lid with the key or wireless remote control transmitter.

- Turn the key from the "LOCK" to "ON" position.

The "PANIC" mode does not work when the ignition key is in the "ON" position.

#### **SWITCHING BEEP SOUND ON AND OFF**

You can switch the beep sound on and off. (The beep sound is on initially and after battery replacement.)

To switch the beep sound on and off:

With the driver's door opened—

1. Insert the ignition key and remove it.
2. Within 5 seconds, insert the ignition key again and turn it to the "ON" position.
3. After 10 seconds, push the same "LOCK", "UNLOCK", "PANIC" or trunk lid open switch twice within 10 seconds.

Two beep sounds inform you that the program has been switched on or off.

If this procedure is not followed exactly, the beep sound will not operate as expected.

Check the beep sound ON/OFF operation by pushing the transmitter switch after you finish this procedure. If the beep does not operate as expected, repeat this procedure from step 1.

#### **WIRELESS REMOTE CONTROL TRANSMITTER**

The wireless remote control transmitter is an electronic component. Observe the following instructions in order not to cause damage to the transmitter.

- Do not leave the transmitter on places where the temperature becomes high such as on the dashboard.
- Do not disassemble it.
- Avoid knocking it hard against other objects or dropping it.
- Avoid putting it in water.

You can use up to 4 wireless remote control transmitters for the same vehicle. Contact your Toyota dealer for detailed information.

If the wireless remote control transmitter does not actuate the doors or trunk lid, or operate from a normal distance:

- Check for closeness to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
- The battery may have been consumed. Check the battery in the transmitter. To replace the battery, see following "REPLACING TRANSMITTER BATTERY".

If you lose your transmitter, contact your Toyota dealer as soon as possible to avoid the possibility of theft, or an accident. (See "If you lose your wireless remote control transmitter" in Section 4.)

#### **For vehicles sold in U.S.A.**

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.

**NOTICE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC WARNING:**

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

**For vehicles sold in Canada**

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.

**REPLACING TRANSMITTER BATTERY**

For replacement, use a CR2016 lithium battery or equivalent.

**! CAUTION**

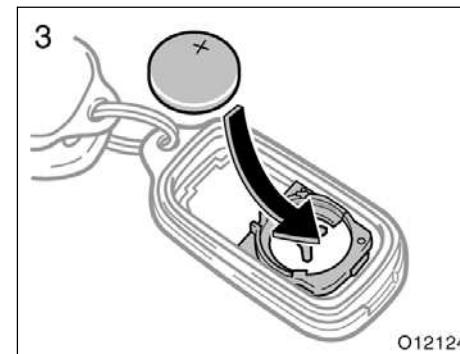
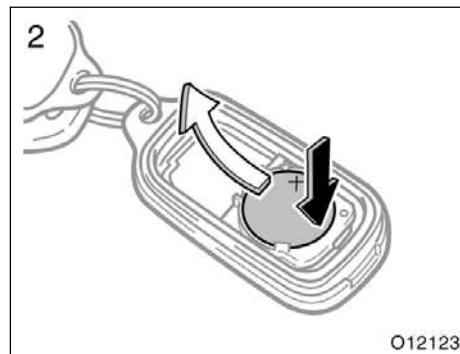
**Special care should be taken that small children do not swallow the removed transmitter battery or components.**

**NOTICE**

- ◆ **When replacing the transmitter battery, be careful not to lose the components.**
- ◆ **Replace only with the same or equivalent type recommended by a Toyota dealer.**
- ◆ **Dispose of used batteries according to the local laws.**

Replace the transmitter battery by the following procedures:

## '03 AVALON U (L/O 0206)



1. Using a coin or equivalent, open the transmitter case.

2. Push the edge of the discharged transmitter battery and lift it out as shown in the above illustration.

3. Put a new transmitter battery with positive (+) side up.

Close the transmitter case securely.

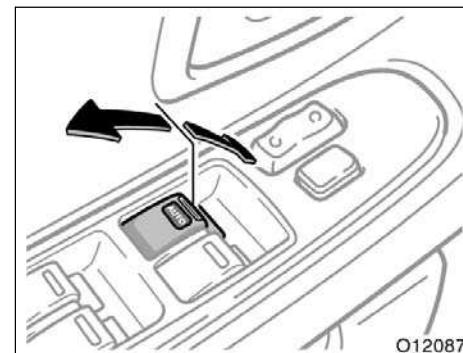
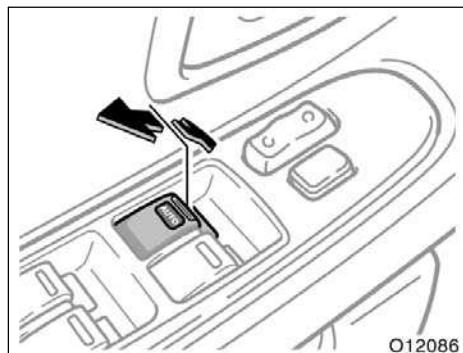
### NOTICE

- ◆ *Make sure the positive side and negative side of the transmitter battery should be faced correctly.*
- ◆ *Do not replace the battery with wet hands. Water may cause unexpected rust.*
- ◆ *Do not touch or move any components inside of the transmitter, or it may interfere with proper operation.*

## Power windows

- ◆ **Be careful not to bend the electrode of the transmitter battery insertion and that dust or oils do not adhere to the transmitter case.**
- ◆ **Close the transmitter case securely.**

After replacing battery, check that the transmitter operates properly. If the transmitter still does not operate properly, contact your Toyota dealer.



### The windows can be operated with the switch on each door.

The power windows work when the ignition switch is in the "ON" position.

**Key off operation:** All windows work for about 43 seconds even after the ignition switch is turned off. They stop working when either front door is opened.

#### OPERATING THE DRIVER'S WINDOW

##### Use the switch on the driver's door.

**Normal operation:** The window moves as long as you hold the switch.

To open: Lightly push down the switch.

To close: Lightly pull up the switch.

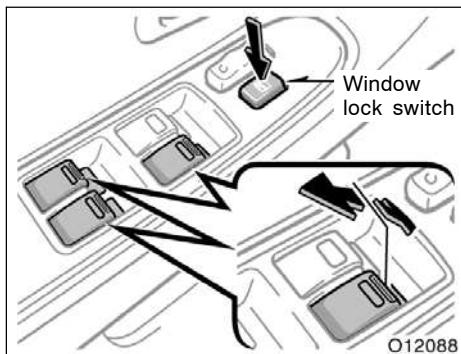
**Automatic operation:** Push the switch completely down or pull it completely up, and then release it. The window will fully open or close. To stop the window part-way, lightly move the switch in the opposite direction and then release it.

**Jam protection function:** During automatic closing operation or key off closing operation, the window stops and opens half way if something gets caught between the window and window frame.

If the window receives a strong impact, this function may work even if nothing is caught.

**CAUTION**

- Never try jamming any part of your body to make the jam protection function work intentionally.
- The jam protection function may not work if something gets caught just before the window is fully closed.



**OPERATING THE PASSENGERS' WINDOWS**

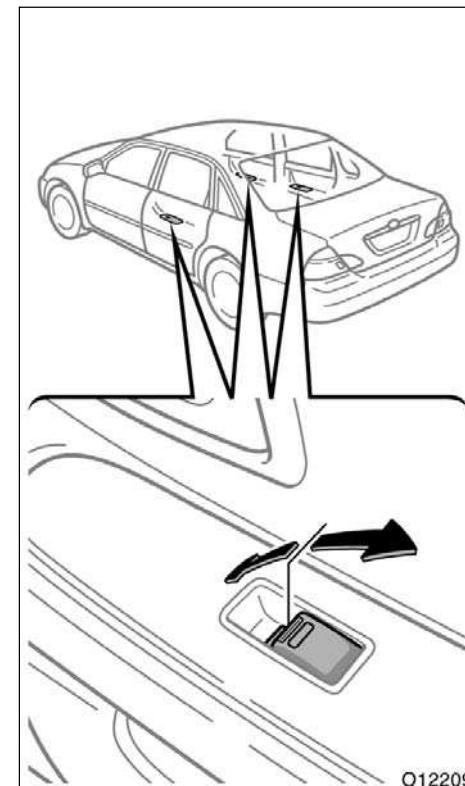
Use the switches on the passengers' doors. The driver's door also has switches that control the passengers' windows.

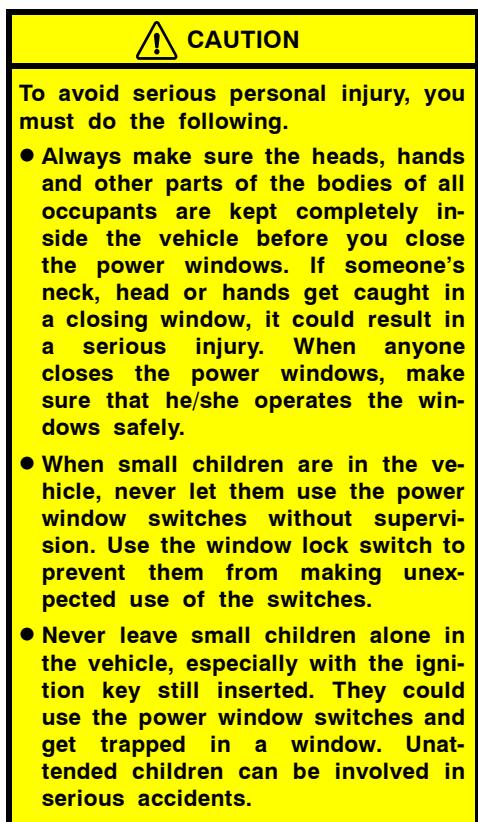
The window moves as long as you hold the switch.

To open: Push down the switch.

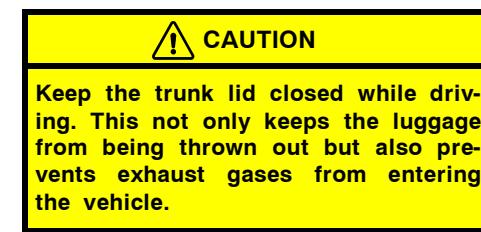
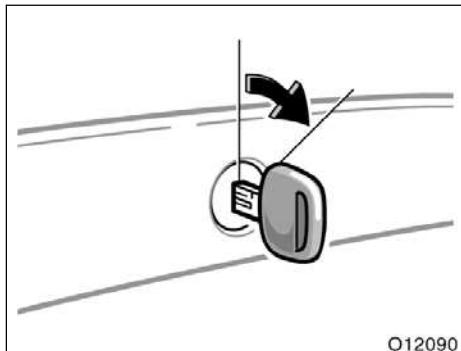
To close: Pull up the switch.

If you push in the window lock switch on the driver's door, the passengers' windows cannot be operated.





**Trunk lid  
(lock release lever type)—**



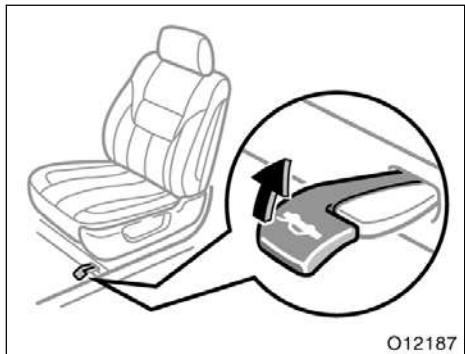
To open the trunk lid from the outside, insert the master key and turn it clockwise.

See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

To close the trunk lid, lower it and press down on it. After closing the trunk lid, try pulling it up to make sure it is securely closed.

Vehicles with wireless remote control system—The trunk lid can be opened with the wireless remote control transmitter, see "—Wireless remote control" in this section.

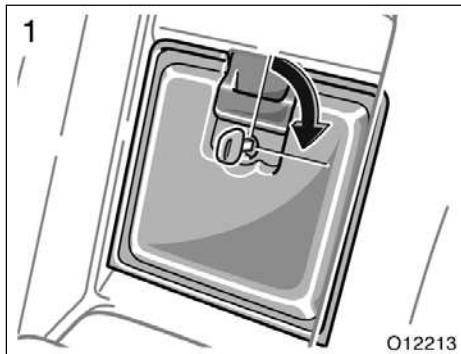
**—Lock release lever**



**To open the trunk lid from the driver's seat, pull up on the lock release lever.**

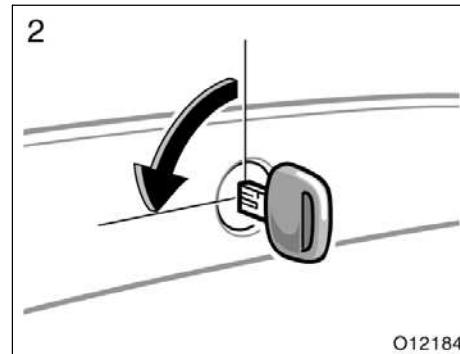
To deactivate this lock release lever from opening the trunk lid, see “—Luggage security system” described below.

**—Luggage security system**



This system deactivates the lock release lever so that things locked in the trunk can be protected.

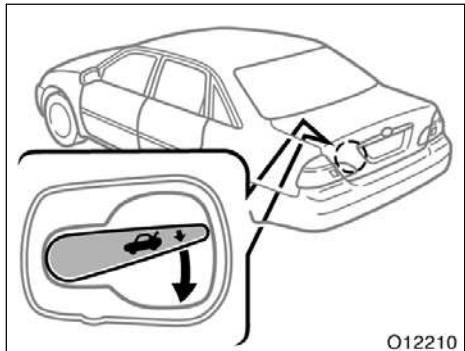
1. After closing the armrest door, insert the master key and turn it clockwise to lock the armrest door.



2. After closing the trunk lid, insert the master key and turn it counterclockwise to deactivate the lock release lever.

After closing the trunk lid, try pulling it up to make sure it is securely locked.

—Internal trunk release handle



O12210

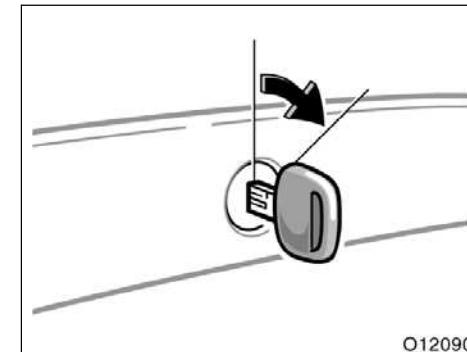
If a person is locked in the trunk, he or she can pull down the phosphorescent handle lever on the inside of trunk lid in case of emergency to open the trunk lid.

The phosphorescent (glow-in-the-dark) handle will continue to glow for a time after the trunk lid is closed. Exposing the handle to stronger light will cause it to glow longer.

 CAUTION

- Always lock the trunk lid and all doors, and keep away the vehicle keys out of children's reaches.
- Never leave children unattended in the vehicle. Unsupervised children may lock themselves in the vehicle or trunk and suffer serious injuries or death.

Trunk lid  
(lock release switch type)—



O12090

To open the trunk lid from the outside, insert the master key and turn it clockwise.

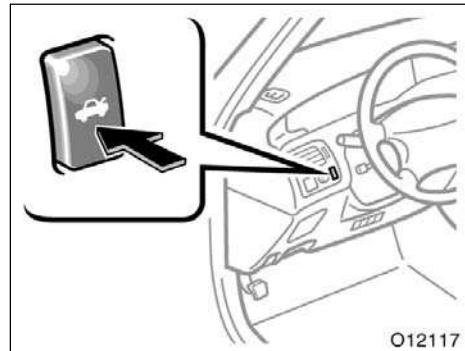
See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

To close the trunk lid, lower it and press down on it. After closing the trunk lid, try pulling it up to make sure it is securely closed.

Vehicles with wireless remote control system—The trunk lid can be opened with the wireless remote control transmitter, see "—Wireless remote control" in this section.



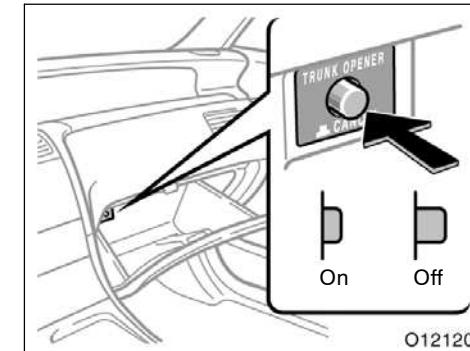
—Lock release switch



To open the trunk lid from the driver's seat, push the lock release switch.

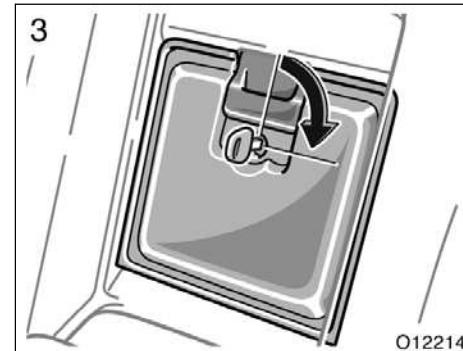
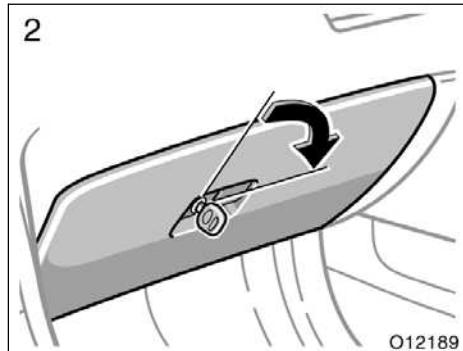
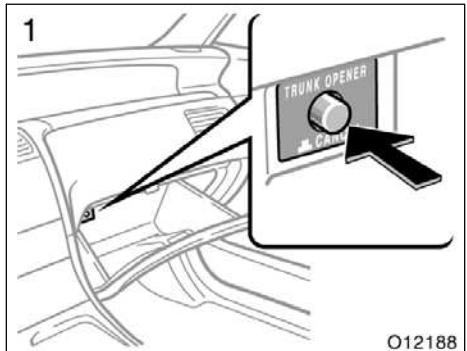
To deactivate this lock release switch from opening the trunk lid, see “—Trunk opener main switch” described below.

—Trunk opener main switch



If you do not want to activate the trunk lid opener system, turn off the trunk opener main switch in the glove box. To turn it on, push in the trunk opener main switch.

—Luggage security system



This system helps protect things locked in the trunk by safeguarding the trunk opener main switch from unwanted access.

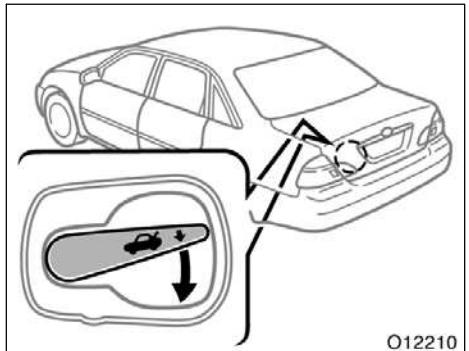
1. To cancel the lock release switch, turn off the trunk opener main switch in the glove box.

2. After closing the glove box lid, insert the master key into the glove box lock and turn it clockwise to safeguard the lock release switch.

3. After closing the armrest door, insert the master key and turn it clockwise to lock the armrest door.

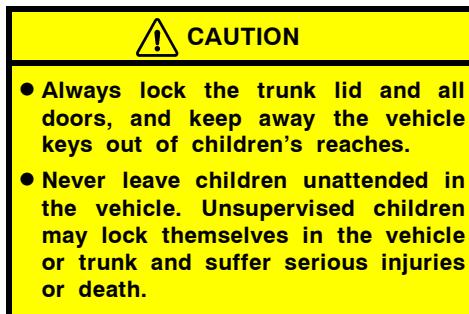
After closing the trunk lid, try pulling it up to make sure it is securely locked.

—Internal trunk release handle

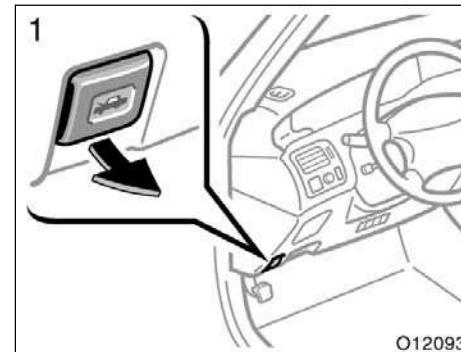


If a person is locked in the trunk, he or she can pull down the phosphorescent handle lever on the inside of trunk lid in case of emergency to open the trunk lid.

The phosphorescent (glow-in-the-dark) handle will continue to glow for a time after the trunk lid is closed. Exposing the handle to stronger light will cause it to glow longer.



Hood

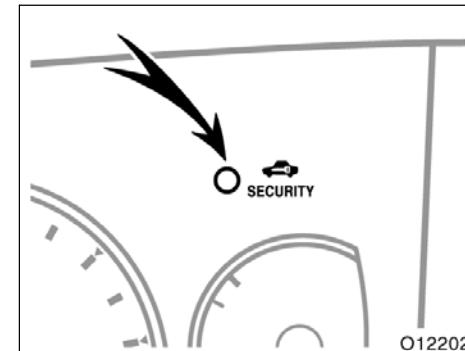
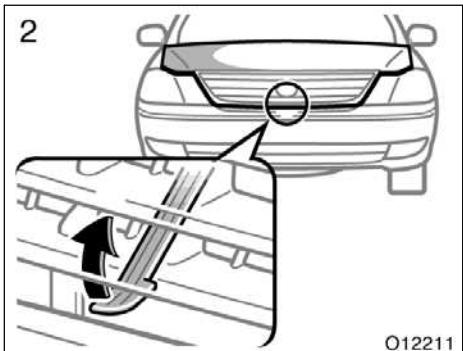


To open the hood:

1. Pull the hood lock release lever. The hood will spring up slightly.



**Theft deterrent system**



2. In front of the vehicle, pull up the auxiliary catch lever and lift the hood.

Before closing the hood, check to see that you have not forgotten any tools, rags, etc. Then lower the hood and make sure it locks into place. If necessary, press down gently on the front edge to lock it.

To deter the vehicle theft, the system is designed to sound an alarm if any of the doors, trunk or hood is forcibly unlocked or the battery terminal is disconnected and then reconnected when the vehicle is locked.

The alarm blows the horn intermittently and flashes the headlights, tail lights and interior light.

**SETTING THE SYSTEM**

1. Turn the ignition key to the "LOCK" position and remove it.

The indicator light will start flashing when the key is removed from the ignition switch. (See "Engine immobiliser system" for details.)

2. Have all passengers get out of the vehicle.
3. Close and lock all the doors, trunk and hood.

The indicator light will remain on when all the doors, trunk and hood are closed and locked.

The system will automatically be set after 30 seconds. When the system is set, the indicator light will start flashing again.

4. After making sure the indicator light starts flashing, you may leave the vehicle.

Never leave anyone in the vehicle when you set the system, because unlocking from the inside will activate the system.

#### WHEN THE SYSTEM IS SET

##### Activating the system

The system will give the alarm under the following conditions:

- If any of the doors is unlocked or if the trunk or hood is forcibly opened without the key or wireless remote control transmitter.
- If the battery terminal is disconnected and then reconnected.
- If the ignition is hotwired.

The indicator light will come on when the system is activating.

If any of the doors is unlocked without the key or wireless remote control transmitter and the key is not in the ignition switch, all the doors will be automatically locked again.

After one minute, the alarm will automatically stop and the indicator light will start flashing again.

##### Reactivating the alarm

Once set, the system automatically resets the alarm after the alarm stops.

The alarm will activate again under the same circumstances described in "Activating the system".

##### Stopping the alarm

The alarm will be stopped by the following three ways:

- Turn the ignition key from the "LOCK" to "ON" position.
- Unlock any of the doors with the key or wireless remote control transmitter.
- Open the trunk with the key or wireless remote control transmitter.

##### CANCELLING THE SYSTEM

The system will be cancelled by the above mentioned 3 ways.

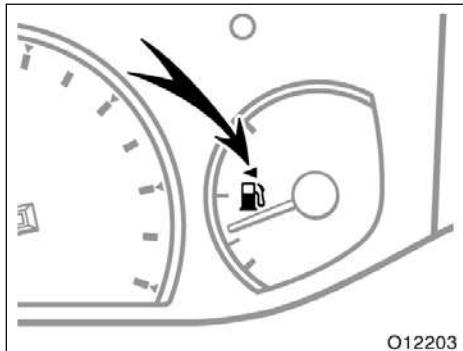
If the tail lights come on for 2 seconds, the theft deterrent system has been alarmed. Check to see if there is any abnormality on your vehicle.

#### TESTING THE SYSTEM

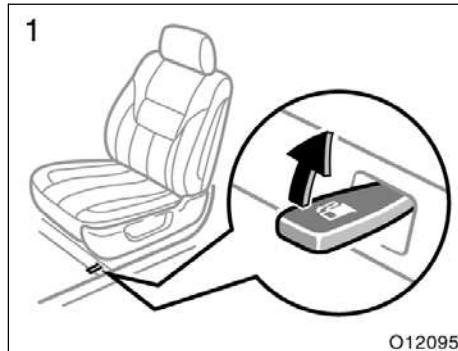
1. Open all the windows.
2. Set the system as described above. The doors should be locked with the key or wireless remote control transmitter. Be sure to wait until the indicator light starts flashing.
3. Unlock any door from the inside. The system should activate the alarm.
4. Stopping the alarm as described above.
5. Repeat this operation for the other doors, trunk and hood. When testing on the hood, also check that the system is activated when the battery terminal is disconnected and then reconnected.

If the system does not work properly, have it checked by your Toyota dealer.

**Fuel tank cap**



This indicates that the fuel filler door is on the left side of your vehicle.

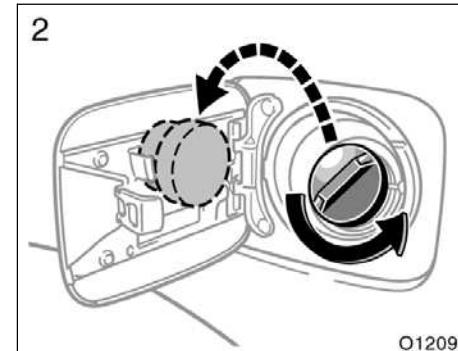


1. To open the fuel filler door, pull the lever up.

When refueling, turn off the engine.

**CAUTION**

- Do not smoke, cause sparks or allow open flames when refueling. The fumes are flammable.
- When opening the cap, do not remove the cap quickly. In hot weather, fuel under pressure could cause injury by spraying out of the filler neck if the cap is suddenly removed.

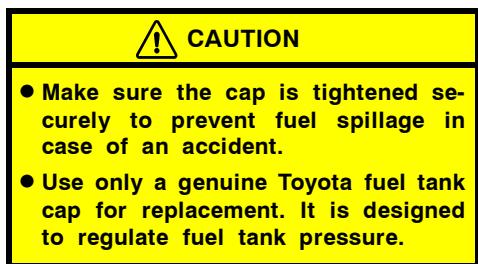


2. To remove the fuel tank cap, turn the cap slowly counterclockwise, then pause slightly before removing it. After removing the cap, hang it on the cap hanger.

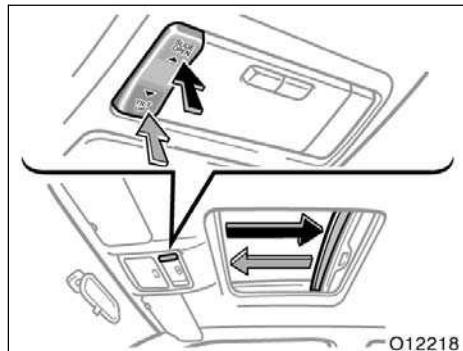
It is not unusual to hear a slight swoosh when the cap is opened. When installing, turn the cap clockwise till you hear a click.

If the cap is not tightened securely, the malfunction indicator lamp comes on. Make sure the cap is tightened securely.

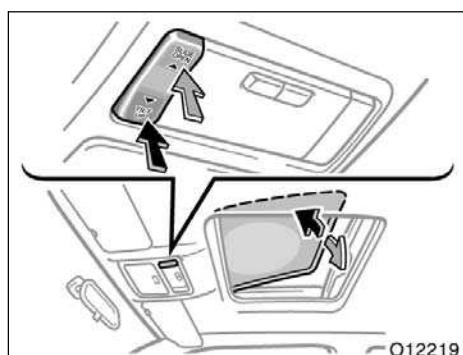
The indicator lamp goes off after driving several times. If the indicator lamp does not go off, contact your Toyota dealer as soon as possible.



### Electric moon roof



#### Sliding operation



#### Tilting operation

To operate the moon roof, use the switch beside the front personal lights.

The moon roof works when the ignition switch is in the "ON" position. However, if both front doors are closed, it works for about 43 seconds even after the ignition switch is turned off. It stops working when either of the front doors is opened.

Sun shade operation—

The sun shade can be opened or closed by hand.

Sliding operation—

To open: Push the switch on the "SLIDE OPEN" side.

The roof will open and stop partway 10 mm (0.4 in.) from the fully opened position. When you push "SLIDE OPEN" side again, the moon roof will open fully. To stop the roof partway, push the switch on either the "SLIDE OPEN" or "TILT UP" side briefly while the roof is moving.

As driving with the moon roof opened fully will cause wind throbs, we recommend you to drive with the moon roof partway 10 mm (0.4 in.) from the fully opened position.

The sun shade will be opened together with the roof.

To close: Push the switch on the "TILT UP" side.

The roof will fully close. To stop the roof partway, push the switch on either the "SLIDE OPEN" or "TILT UP" side briefly.

Tilting operation—

To tilt up: Push the switch on the "TILT UP" side.

To tilt down: Push the switch on the "SLIDE OPEN" side.

You may stop the moon roof at any desired position. The roof will move while the switch is being pushed and stop when released.

**Jam protection function (closing operation only):** During closing operation, the moon roof stops and opens half way if something gets caught between the moon roof and frame.

If the moon roof receives a strong impact, this function may work even if nothing is caught.

 CAUTION

To avoid serious personal injury, you must do the following.

- While the vehicle is moving, always keep the heads, hands and other parts of the bodies of all occupants away from the roof opening. Otherwise, they could be seriously injured if the vehicle stops suddenly or if the vehicle is involved in an accident.
- Always make sure nobody places his/her head, hands and other parts of the body in the roof opening before you close the roof. If someone's neck, head or hands get caught in the closing roof, it could result in a serious injury. When anyone closes the roof, first make sure it is safe to do so.
- Never leave small children alone in the vehicle, especially with the ignition key still inserted. They could use the moon roof switches and get trapped in the roof opening. Unattended children can be involved in serious accidents.

- Never sit on top of the vehicle around the roof opening.
- Never try jamming any part of your body to make the jam protection function work intentionally.
- The jam protection function may not work if something gets caught just before the moon roof is fully closed.

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## ***SECTION 1 – 3***

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

#### **Seats, Seat belts, Steering wheel and Mirrors**

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## Seats

While the vehicle is being driven, all vehicle occupants should have the seatback upright, sit well back in the seat and properly wear the seat belts provided.

### CAUTION

- Do not drive the vehicle unless the occupants are properly seated. Do not allow sitting on top of a folded-down seatback, or in the luggage compartment or cargo area. Persons not properly seated and/or properly restrained by seat belts can be severely injured in the event of emergency braking or a collision.
- During driving, do not allow passengers to stand up or move around between seats. Severe injuries can occur in the event of emergency braking or a collision.

## Front seats—

### —Front seat precautions

#### CAUTION

The SRS side airbags are installed in the driver and front passenger seats. Observe the following precautions.

- Do not lean against the front door when the vehicle is in use, since the side airbag inflates with considerable speed and force. Otherwise, you may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.
- Do not use seat accessories which cover the parts where the side airbags inflate. Such accessories may prevent the side airbags from activating correctly, causing death or serious injury.
- Do not modify or replace the seats or upholstery of the front seats with the side airbags. Such changes may disable the system or cause the side airbags to inflate accidentally resulting in death or serious injury. Consult your Toyota dealer if you insist on modifications of this kind.

### —Seat adjustment precautions

Adjust the driver's seat so that the foot pedals, steering wheel and instrument panel controls are within easy reach of the driver.

#### CAUTION

- Adjustments should not be made while the vehicle is moving, as the seat may unexpectedly move and cause the driver to lose control of the vehicle.
- When adjusting the seat, be careful that the seat does not hit a passenger or luggage.
- After adjusting the seat position, try sliding it forward and backward to make sure it is locked in position.
- After adjusting the seatback, push back your body to make sure it is locked in position.

- Do not put objects under the seats. Otherwise, the objects may interfere with the seat-lock mechanism or unexpectedly push up the seat position adjusting lever and the seat may suddenly move, causing the driver to lose control of the vehicle.
- While adjusting the seat, do not put your hands under the seat or near the moving parts. Otherwise, you may catch and injure your hands or fingers.

### —Adjusting front seats (manual seat)



#### 1. SEAT POSITION ADJUSTING LEVER

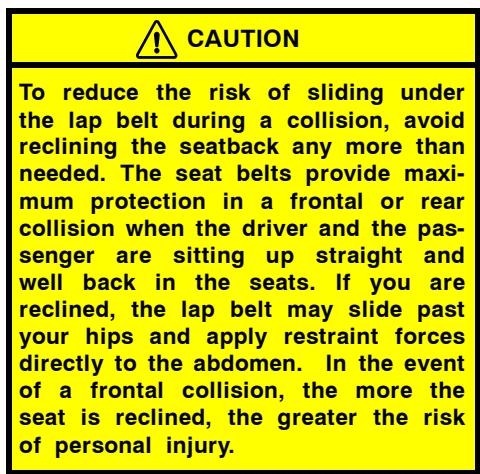
Hold the center of the lever and pull it up. Then slide the seat to the desired position with slight body pressure and release the lever.

#### 2. SEAT CUSHION ANGLE ADJUSTING KNOB

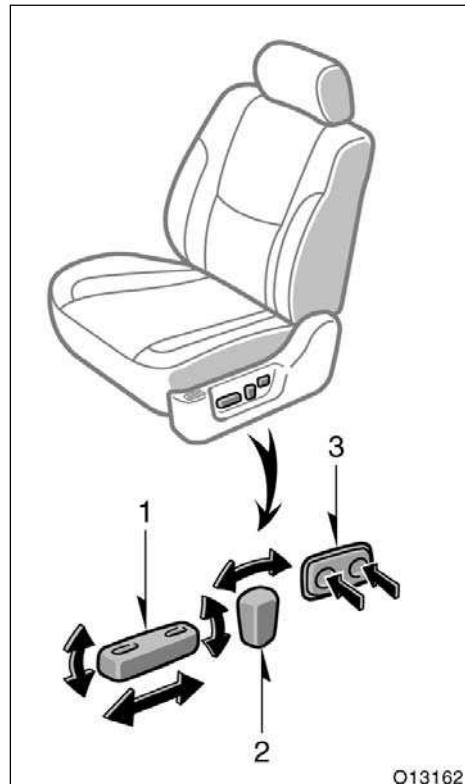
Turn the knob either way.

#### 3. SEATBACK ANGLE ADJUSTING LEVER

Lean forward and pull the lever up. Then lean back to the desired angle and release the lever.



—Adjusting front seats (power seat)



**1. SEAT POSITION AND SEAT CUSHION ANGLE ADJUSTING SWITCH**

Move the control switch in the desired direction.

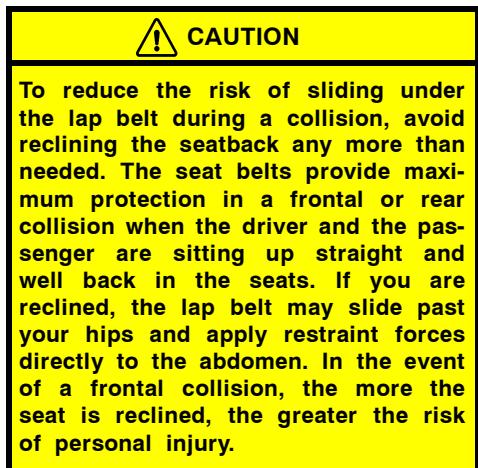
Releasing the switch will stop the seat at that position.

Do not place anything under the front seats, as this might interfere with the seat movement.

**2. SEATBACK ANGLE ADJUSTING SWITCH**

Move the control switch in the desired direction.

Releasing the switch will stop the seatback at that position.



### 3. SEAT LUMBAR SUPPORT ADJUSTING SWITCH

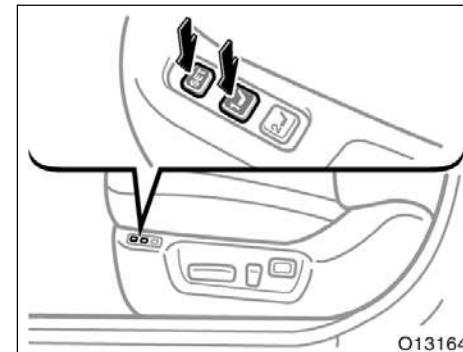
Push the switch on either side.

The amount of lumbar support will change while the switch is pushed.

### Driving position memory system

The micro computer can memorize the position of the driver's seat and outside rear view mirror. Two different driving position profiles can be entered into computer's memory.

Recording a driving position in the computer's memory can only be done when the ignition key is in the "ON" position and the automatic transmission selector lever is in the "P" position.



#### SETTING THE DRIVING POSITION

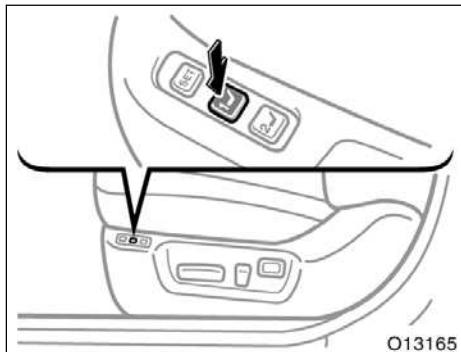
1. Adjust the driver's seat and outside rear view mirror to the desired position.
2. While pushing the "SET" button, push button "1" or "2" until the signal beeps.

The beep sound means that the positions are recorded in the computer's memory.

By repeating these two steps and pressing the remaining button, the driving position for another driver can be recorded.

To set a new memorized position, select the desired position and perform step 2. The previous memory will be erased and a new position will be set.

To make only slight changes to an already memorized position, the easiest way is to first activate the memorized position, then make the desired changes and perform step 2 above.



#### RECALLING THE MEMORIZED POSITION

When you push button "1" or "2", the driving position will be automatically adjusted to the position recorded for that button.

#### CONDITIONS FOR MEMORIZED POSITION ACTIVATION

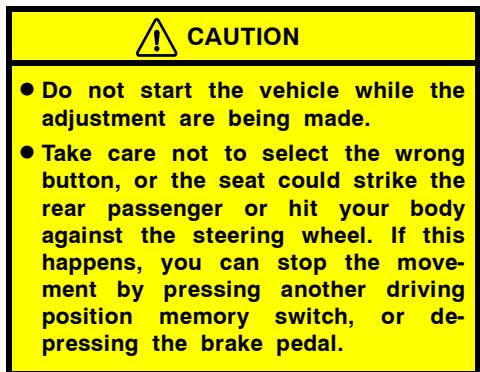
- Ignition key "ON" and shift lever in "P" position  
All parts of the memorized positions can be activated. However, if the brake pedal is being depressed, the seat position will not change.
- Key not in ignition switch and within 30 seconds of opening driver's door  
The memorized position can be activated.

If any driving position memory switch is pushed while one of the memorized driving position profiles is being activated, the operation will stop.

To reactivate the system, push the desired button ("1" or "2") again.

The driving position memory control system cannot be operated while the vehicle is moving.

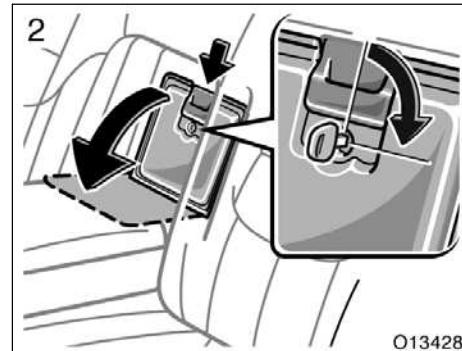
If the vehicle's battery is disconnected, the computer's memory will be erased and the memorized position will have to be set again.



### Trunk storage extension



1. Pull down the armrest in the rear seat.



2. Push down the handle of the armrest door and open the armrest door.

Access to the trunk can be prevented by locking the armrest door with the master key.

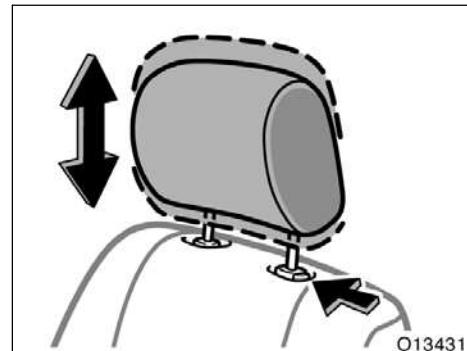
To lock: Turn the key clockwise.

See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

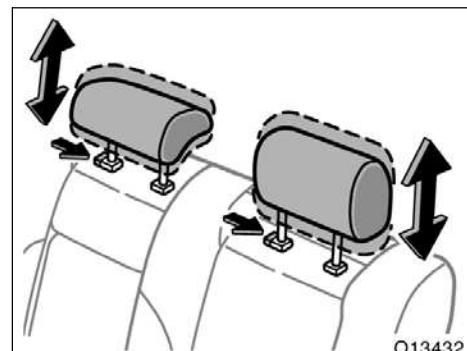
## Head restraints

### ! CAUTION

Be sure to close the door when the trunk storage extension is not in use. Luggage or cargo in the trunk may be thrown into the passenger compartment in a sudden stop or crash resulting in injury.



Front



Rear

For your safety and comfort, adjust the head restraint before driving.

To raise: Pull it up.

To lower: Push it down while pressing the lock release button.

Rear center head restraint—When an occupant sits on the rear center seat, always pull up the rear center head restraint to the lock position.

The head restraint is most effective when it is close to your head. Therefore, using a cushion on the seatback is not recommended.

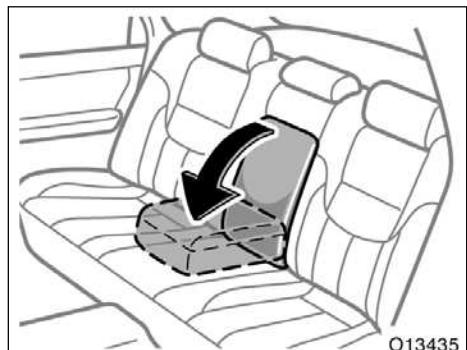
### ! CAUTION

- Adjust the center of the head restraint so that it is closest to the top of your ears.
- After adjusting the head restraint, make sure it is locked in position.
- Do not drive with the head restraints removed.

**Armrest**



Front (bench type front seat only)

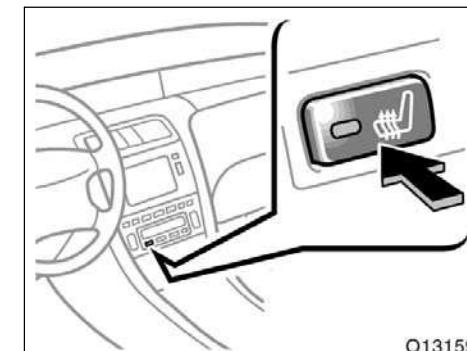


Rear

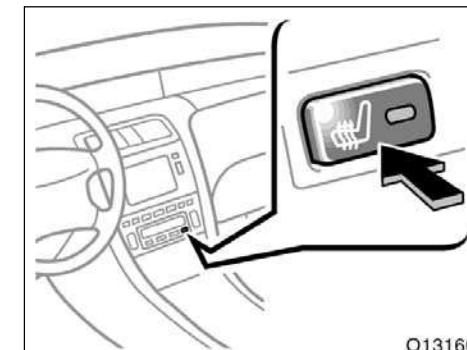
Front—To use the armrest, pull up the strap and pull down the armrest as shown above.

Rear—To use the armrest, pull it down as shown above.

**Seat heaters**



For driver



For front outside passenger

To turn on the seat heater, push the switch.

At this time, the indicator light will illuminate to indicate the seat heater is operating.

The key must be in the "ON" position.

Pushing the switch again will turn it off.

 **CAUTION**

Occupants must use caution when operating the seat heater because it may make them feel too hot or cause burns at low temperatures (erythema, varicella). Use extra caution for;

- Babies, small children, elderly persons, sick persons or handicapped persons
- Persons who have delicate skin
- Persons who are exhausted
- Persons who have taken alcohol or drugs which induce sleep (sleeping drug, cold remedy, etc.)

To prevent the seat overheating, do not use the seat heater with a blanket, cushion, or other insulating objects which cover the seat.

**NOTICE**

- ◆ *Do not put unevenly weighed objects on the seat and do not stick sharp objects (needles, nails, etc.) into the seat.*
- ◆ *When cleaning the seats, do not use organic substances (paint thinner, benzine, alcohol, gasoline, etc.). They may damage the heater and seat surface.*
- ◆ *To prevent the battery from being discharge, turn the switch off when the engine is not running.*

**Seat belts—**

**—Seat belt precautions**

Toyota strongly urges that the driver and passengers in the vehicle be properly restrained at all times with the seat belts provided. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

**Child.** Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belts. See "Child restraint" for details.

If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

If a child must sit in the front seat, the seat belts should be worn properly. If an accident occurs and the seat belts are not worn properly, the force of the rapid inflation of the airbag may cause death or serious injury to the child.

Do not allow the child to stand up or kneel on either rear or front seats. An unrestrained child could suffer serious injury or death during emergency braking or a collision. Also, do not let the child sit on your lap. It does not provide sufficient restraint.

**Pregnant woman.** Toyota recommends the use of a seat belt. Ask your doctor for specific recommendations. The lap belt should be worn securely and as low as possible over the hips and not on the waist.

**Injured person.** Toyota recommends the use of a seat belt. Depending on the injury, first check with your doctor for specific recommendations.

 **CAUTION**

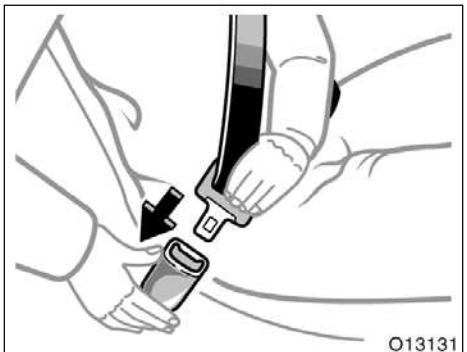
Persons should ride in their seats properly wearing their seat belts whenever the vehicle is moving. Otherwise, they are much more likely to suffer serious bodily injury or death in the event of sudden braking or a collision.

When using the seat belts, observe the following:

- Use the belt for only one person at a time. Do not use a single belt for two or more people—even children.
- Avoid reclining the seatbacks too much. The seat belts provide maximum protection when the seatbacks are in the upright position. (Refer to the seat adjustment instructions.)
- Be careful not to damage the belt webbing or hardware. Take care that they do not get caught or pinched in the seat or doors.
- Inspect the belt system periodically. Check for cuts, fraying, and loose parts. Damaged parts should be replaced. Do not disassemble or modify the system.

- Keep the belts clean and dry. If they need cleaning, use a mild soap solution or lukewarm water. Never use bleach, dye, or abrasive cleaners—they may severely weaken the belts. (See “Cleaning the interior” in Section 5.)
- Replace the belt assembly (including bolts) if it has been used in a severe impact. The entire assembly should be replaced even if damage is not obvious.

—Front outside and rear seat belts (3-point type)



Adjust the seat as needed (front seats only) and sit up straight and well back in the seat. To fasten your belt, pull it out of the retractor and insert the tab into the buckle.

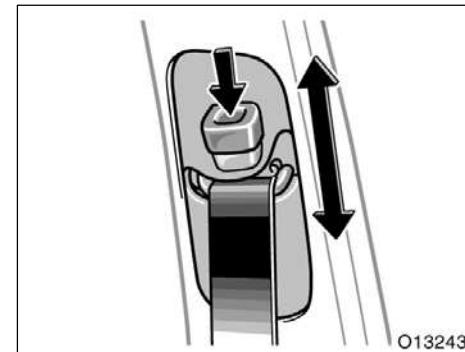
You will hear a click when the tab locks into the buckle.

The seat belt length automatically adjusts to your size and the seat position.

The retractor will lock the belt during a sudden stop or on impact. It also may lock if you lean forward too quickly. A slow, easy motion will allow the belt to extend, and you can move around freely.

If the seat belt cannot be pulled out of the retractor, firmly pull the belt and release it. You will then be able to smoothly pull the belt out of the retractor.

When a passenger's shoulder belt is completely extended and is then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold the child restraint system securely. (For details, see "Child restraint" in this section.) To free the belt again, fully retract the belt and then pull the belt out once more.



Seat belts with an adjustable shoulder anchor—

Adjust the shoulder anchor position to your size.

To raise: Slide the anchor up.

To lower: Push in the lock release button and slide the anchor down.

After adjustment, make sure the anchor is locked in position.

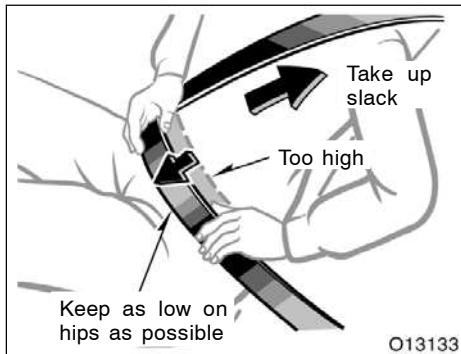
**CAUTION**

- After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Toyota dealer. Do not use the seat until the seat belt is fixed. It cannot protect an adult occupant or your child from injury.



**CAUTION**

Always make sure the shoulder belt is positioned across the center of your shoulder. The belt should be kept away from your neck, but not falling off your shoulder. Failure to do so could reduce the amount of protection in an accident and cause serious injuries in a collision.

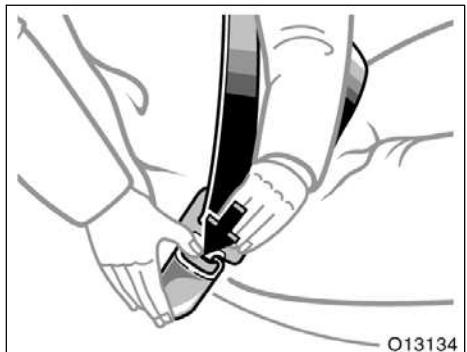


**CAUTION**

- Both high-positioned lap belts and loose-fitting belts could cause serious injuries due to sliding under the lap belt during a collision or other unintended result. Keep the lap belt positioned as low on hips as possible.
- For your safety, do not place the shoulder belt under your arm.

**Adjust the position of the lap and shoulder belts.**

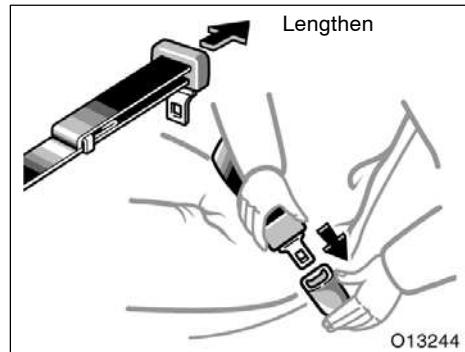
Position the lap belt as low as possible on your hips—not on your waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



To release the belt, press the buckle-release button and allow the belt to retract.

If the belt does not retract smoothly, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.

—Front center seat belt  
(2-point type)



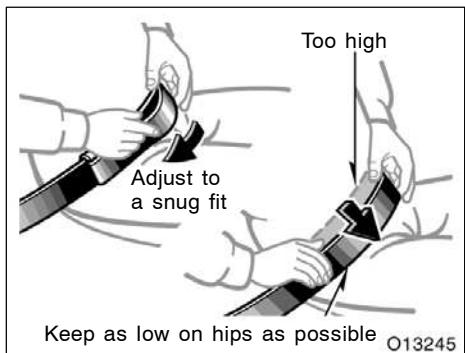
Sit up straight and well back in the seat. To fasten your belt, insert the tab into the buckle.

You will hear a click when the tab locks into the buckle.

If the belt is not long enough for you, hold the tab at a right angle to the belt and pull on the tab.

! CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Toyota dealer. Do not use the seat until the seat belt is fixed. It cannot protect an adult occupant or your child from injury.



**Remove excess length of the belt and adjust the belt position.**

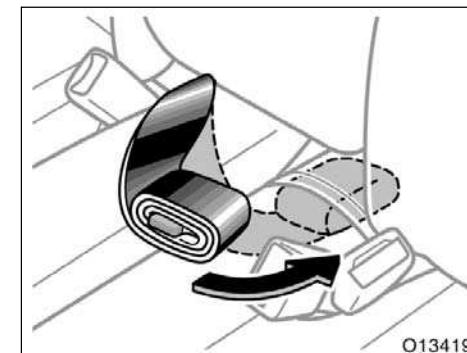
To shorten the belt, pull the free end of the belt.

Position the lap belt as low as possible on your hips—not on your waist, then adjust it to a snug fit.



**To release the belt, press the buckle-release button.**

**—Stowing the front center seat belt**



The front center seat belt can be stowed when not in use.

**CAUTION**

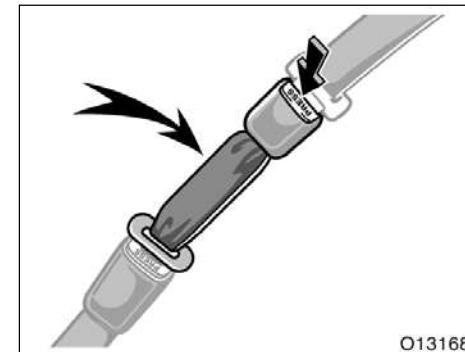
Both high-positioned and loose-fitting lap belts could cause serious injuries due to sliding under the lap belt during a collision or other unintended result. Keep the lap belt positioned as low on hips as possible.

### —Seat belt extender

If your seat belts cannot be fastened securely because they are not long enough, a personalized seat belt extender is available from your Toyota dealer free of charge.

Please contact your local Toyota dealer so that the dealer can order the proper required length for the extender. Bring the heaviest coat you expect to wear for proper measurement and selection of length. Additional ordering information is available at your Toyota dealer.

- Remember that the extender provided for you may not be safe when used on a different vehicle, for another person or at a different seating position, than the one originally intended.



O13168

#### CAUTION

When using the seat belt extender, observe the following precautions. Failure to follow these instructions could reduce the effectiveness of the seat belt restraint system in case of vehicle accident, increasing the chance of personal injury.

- Never use the seat belt extender if you can fasten the seat belt without it.

To connect the extender to the seat belt, insert the tab into the seat belt buckle so that the "PRESS" signs on the buckle-release buttons of the extender and the seat belt are both facing outward as shown.

You will hear a click when the tab locks into the buckle.

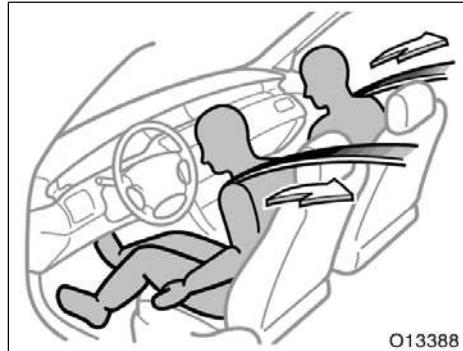
When releasing the seat belt, press on the buckle-release button on the extender, not on the seat belt. This helps prevent damage to the vehicle interior and extender itself.

When not in use, remove the extender and store in the vehicle for future use.

 **CAUTION**

- After inserting the tab, make sure the tab and buckle are locked and that the seat belt extender is not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Toyota dealer. Do not use the seat until the seat belt is fixed. It cannot protect an adult occupant or your child from injury.

—Front seat belt pretensioners



The driver and front outside passenger's seat belt pretensioners are designed to be activated in response to a severe frontal impact.

When the airbag sensor detects the shock of a severe frontal impact, the front outside seat belts are quickly drawn back in by the retractors so that the belts snugly restrain the front outside seat occupants.

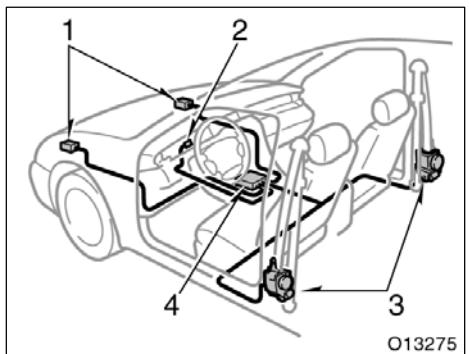
The front outside seat belt pretensioners are activated even with no passenger in the front outside seat.



O13406

This indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the front outside seat belt pretensioners are operating properly.

This warning light system monitors the airbag sensor assembly, front airbag sensors, side airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" in Section 1-5.)



The front outside seat belt pretensioner system mainly consists of the following components and their locations are shown in the illustration.

1. Front airbag sensors
2. SRS warning light
3. Front seat belt pretensioner assemblies
4. Airbag sensor assembly

The front outside seat belt pretensioners are controlled by the airbag sensor assembly. The airbag sensor assembly consists of a safing sensor and airbag sensor.

When the front outside seat belt pretensioners are activated, an operating noise may be heard and a small amount of smoke-like gas may be released. This gas is harmless and does not indicate that a fire is occurring.

Once the front outside seat belt pretensioners have been activated, the seat belt retractors remain locked.

**CAUTION**

**Do not modify, remove, strike or open the front seat belt pretensioner assemblies, airbag sensor or surrounding area or wiring. Doing so may cause sudden operation of the front outside seat belt pretensioners or disable the system, which could result in death or serious injury.**

**Failure to follow these instructions can result in death or serious injuries. Consult your Toyota dealer about any repairs and modifications.**

**NOTICE**

*Do not perform any of the following changes without consulting your Toyota dealer. Such changes can interfere with proper operation of the front outside seat belt pretensioners in some cases.*

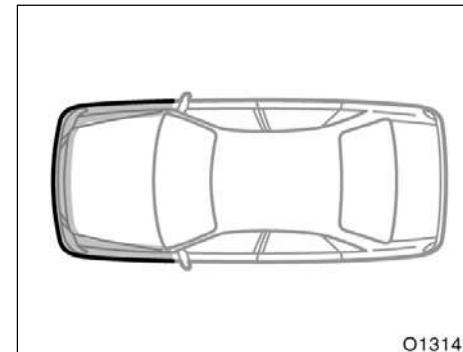
- ◆ Installation of electronic devices such as a mobile two-way radio, cassette tape player or compact disc player
- ◆ Repairs on or near the front seat belt retractor assemblies
- ◆ Modification of the suspension system
- ◆ Modification of the front end structure
- ◆ Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end
- ◆ Repairs made on or near the front fenders, front end structure or console



This front outside seat belt pretensioner system has a service reminder indicator to inform the driver of operating problems. If any of the following conditions occurs, this indicates a malfunction of the airbags or pretensioners. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position, or remains on.
- The light comes on or flashes while driving.

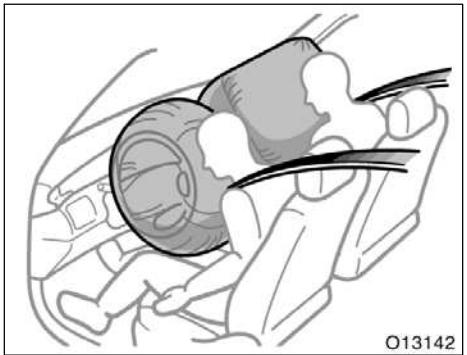
- If either front outside seat belt does not retract or cannot be pulled out due to a malfunction or activation of the relevant front outside seat belt pretensioner.



In the following cases, contact your Toyota dealer as soon as possible:

- The front of the vehicle (shaded in the illustration) was involved in an accident that was not severe enough to cause the front outside seat belt pretensioners to operate.
- Either front outside seat belt pretensioner assembly or surrounding area is scratched, cracked, or otherwise damaged.

### SRS driver airbag and front passenger airbag



The SRS (Supplemental Restraint System) front airbags are designed to provide further protection for occupants in the following seats in addition to the primary safety protection provided by the seat belts.

- Vehicles with bucket front seats—The SRS front airbags are designed to protect the driver and front passenger.
- Vehicles with bench type front seats—The SRS front airbags are designed to protect the driver and front outside passenger. They are not designed to protect occupant in the center position.

In response to a severe frontal impact, the SRS front airbags work together with the seat belts to help reduce injury by inflating. The SRS front airbags help to reduce injuries mainly to the driver's or front passenger's head or chest caused by directly hitting the steering wheel or dashboard. The front passenger airbag is activated even with no passenger in the front seat.

Be sure to wear your seat belt properly.

#### ! CAUTION

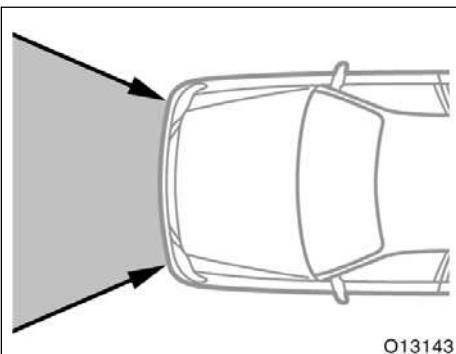
The driver or front passenger who is too close to the steering wheel or dashboard during airbag deployment can be killed or seriously injured. Toyota strongly recommends that:

- The driver sit as far back as possible from the steering wheel while still maintaining control of the vehicle.
- The front passenger sit as far back as possible from the dashboard.
- All vehicle occupants be properly restrained using the available seat belts.



**This indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the SRS front airbags are operating properly.**

This warning light system monitors the airbag sensor assembly, front airbag sensors, side airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service remainder indicators and warning buzzers" in Section 1-5.)



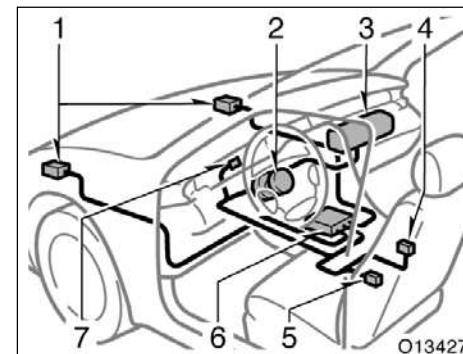
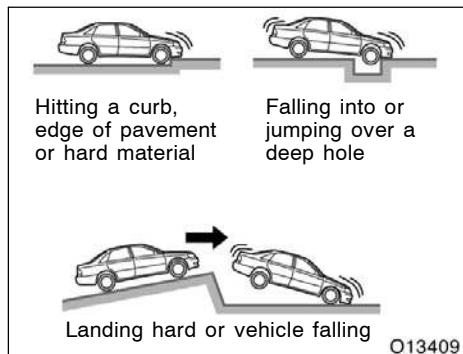
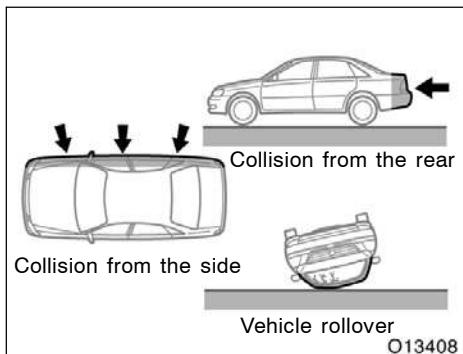
**The SRS front airbag system is designed to activate in response to a severe frontal impact within the shaded area between the arrows in the illustration.**

The SRS front airbags will deploy if the severity of the impact is above the designed threshold level, comparable to an approximate 25 km/h (15 mph) collision in the U.S.A. and 30 km/h (18 mph) collision in Canada when impacting straight into a fixed barrier that does not move or deform.

If the severity of the impact is below the above threshold level, the SRS front airbags may not deploy.

However, this threshold velocity will be considerably higher if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, or if it is involved in an underride collision (e.g. a collision in which the nose of the vehicle "underrides", or goes under, the bed of a truck, etc.).

For the safety of all occupants, always wear your seat belts properly.



**The SRS front airbags are not designed to inflate if the vehicle is involved in a side or rear collision, if it rolls over, or if it is involved in a low-speed frontal collision.**

**The SRS front airbags may deploy if a serious impact occurs to the underside of your vehicle. Some examples are shown in the illustration.**

The SRS airbag system consists mainly of the following components, and their locations are shown in the illustration.

1. Front airbag sensors
2. Airbag module for driver (airbag and inflator)
3. Airbag module for front passenger (airbag and inflator)
4. Driver's seat belt buckle switch
5. Driver's seat position sensor
6. Airbag sensor assembly
7. SRS warning light

The airbag sensor assembly consists of a safing sensor and airbag sensor.

In a severe frontal impact, the sensor detects deceleration and the system triggers the airbag inflators. At this time a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the forward motion of the occupants.

When the airbags inflate, they produce a fairly loud noise and release some smoke and residue along with non-toxic gas. This does not indicate a fire. This gas is normally harmless; however, for those who have delicate skin, it may cause a minor skin irritation. Be sure to wash off any residue as soon as possible to prevent any potential skin irritation.

Deployment of the airbags happens in a fraction of a second, so the airbags must inflate with considerable force. While the system is designed to reduce serious injuries, it may also cause minor burns or abrasions and swelling.

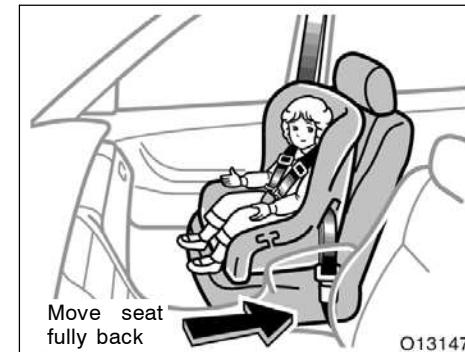
Parts of the airbag module (steering wheel hub, dashboard) may be hot for several minutes, but the airbags themselves will not be hot. The airbags are designed to inflate only once.

A crash severe enough to inflate the airbags may break the windshield as the vehicle buckles. In vehicles with a passenger airbag the windshield may also be damaged by absorbing some of the force of the inflating airbag.

 **CAUTION**

- The SRS airbag system is designed only as a supplement to the primary protection of the driver side and front passenger side seat belt systems. The front seat occupants can be killed or seriously injured by the inflating airbags if they do not wear the available seat belts properly. During sudden braking just before a collision, an unrestrained driver or front passenger can move forward into direct contact with or close proximity to the airbag which may then deploy during the collision. To ensure maximum protection in an accident, the driver and all passengers in the vehicle must wear their seat belts properly. Wearing a seat belt properly during an accident reduces the chances of death or serious injury or being thrown out of the vehicle. For instructions and precautions concerning the seat belt system, see "Seat belts" in this section.

● Improperly seated and/or restrained infants and children can be killed or seriously injured by the deploying front airbags. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Toyota strongly recommends that all infants and children be placed in the rear seat of the vehicle and properly restrained. The rear seat is the safest for infants and children. For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.



● Never install a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.

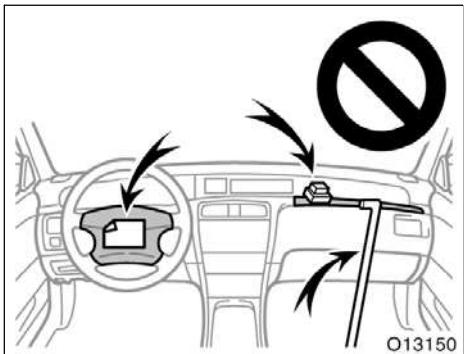
● A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying front passenger airbag could cause death or serious injury to the child.

- Do not allow the child to lean against the front door or around the front door even if the child is seated in the child restraint system. It is dangerous if the side airbags inflate, because the impact could cause death or serious injury to the child.
- For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.



- Do not sit on the edge of the seat or lean over the dashboard when the vehicle is in use, since the front airbags inflate with considerable speed and force. Otherwise, you may be killed or seriously injured. Sit up straight and well back in the seat, and always use your seat belt properly.

- Do not allow a child to stand up, or to kneel on the front passenger seat, since the front airbag inflates with considerable speed and force. Otherwise, the child may be killed or seriously injured.
- Do not hold a child on your lap or in your arms. Use a child restraint system in the rear seat. For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.



- Do not put objects or your pets on or in front of the dashboard or steering wheel pad that houses the front airbag system. They might restrict inflation or cause death or serious injury as they are projected rearward by the force of the deploying airbags. Likewise, the driver and front passenger should not hold objects in their arms or on their knees.

- Do not modify or remove any wiring. Do not modify, remove, strike or open any components such as the steering wheel pad, steering wheel, column cover, front passenger airbag cover, front passenger airbag or airbag sensor assembly. Doing so may cause sudden SRS front airbag inflation or disable the system, which could result in death or serious injury.

Failure to follow these instructions can result in death or serious injury. Consult your Toyota dealer about any repairs and modifications.

#### NOTICE

*Do not perform any of the following changes without consulting your Toyota dealer. Such changes can interfere with proper operation of the SRS front airbag system in some cases.*

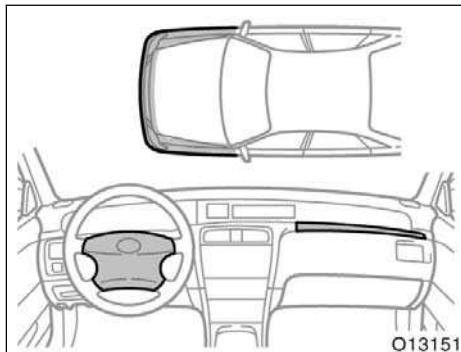
◆ Installation of electronic devices such as a mobile two-way radio, cassette tape player or compact disc player

◆ Modification of the suspension system

◆ Modification of the front end structure

◆ Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end

◆ Repairs made on or near the front fenders, front end structure, console, steering column, steering wheel or dashboard near the front passenger airbag



**NOTICE**

*Do not disconnect the battery cables before contacting your Toyota dealer.*

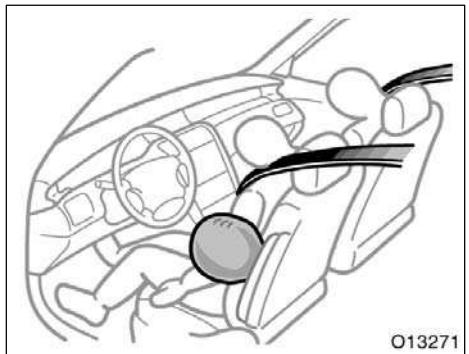
This SRS front airbag system has a service reminder indicator to inform the driver of operating problems. If either of the following conditions occurs, this indicates a malfunction of the airbags. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position, or the light remains on.
- The light comes on while driving.

In the following cases, contact your Toyota dealer as soon as possible:

- The SRS front airbags have been inflated.
- The front of the vehicle (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS front airbags to inflate.
- The pad section of the steering wheel or front passenger airbag cover (shaded in the illustration) is scratched, cracked, or otherwise damaged.

### SRS side airbags



The SRS (Supplemental Restraint System) side airbags are designed to provide further protection for occupants in the following seats in addition to the primary safety protection provided by the seat belts.

- Vehicles with bucket front seats—The SRS side airbags are designed to protect the driver and front passenger.
- Vehicles with bench type front seats—The SRS side airbags are designed to protect the driver and right-front passenger. They are not designed to protect occupant in the center position.

In response to a severe side impact, the SRS side airbags work together with the seat belts to help reduce injury by inflating. The SRS side airbags help to reduce injuries mainly to the driver's or front passenger's chest. The SRS side airbag on the passenger seat is activated even with no passenger in the front seat.

Be sure to wear your seat belt properly.

#### CAUTION

SRS side airbags inflate with considerable force. To avoid potential death or serious injury when they inflate, the driver and front passenger must:

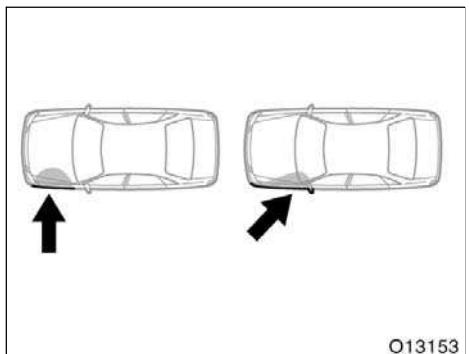
- Wear their seat belts properly
- Remain properly seated with their back upright and against the seat at all times.



O13406

This indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the SRS side airbags are operating properly.

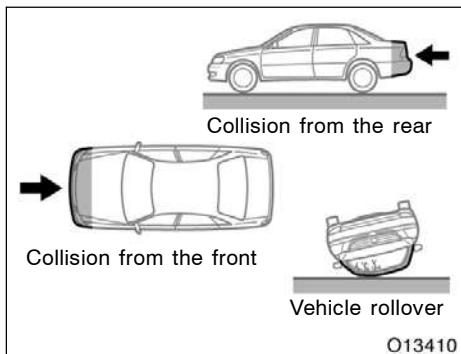
This warning light system monitors the airbag sensor assembly, front airbag sensors, side airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" in Section 1-5.)



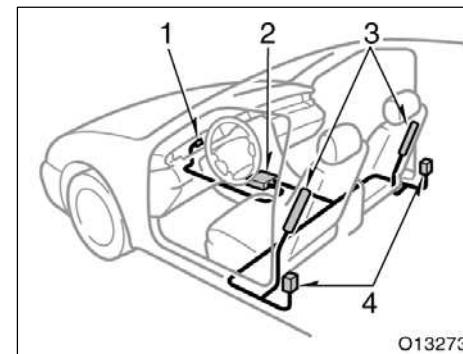
**The SRS side airbag system may not activate if the vehicle is subjected to a collision from the side at certain angles, or a collision to the side of the vehicle body other than the passenger compartment as shown in the illustration.**

The SRS side airbags are designed to inflate when the passenger compartment area suffers a severe impact from the side.

For the safety of all occupants, always wear your seat belts properly.



**The SRS side airbags are not designed to inflate if the vehicle is involved in a front or rear collision, if it rolls over, or if it is involved in a low-speed side collision.**



The SRS side airbag system consists mainly of the following components, and their locations are shown in the illustration.

1. SRS warning light
2. Airbag sensor assembly
3. Side airbag modules (airbag and inflator)
4. Side airbag sensors

The SRS side airbag system is controlled by the airbag sensor assembly. The airbag sensor assembly consists of a safing sensor and airbag sensor.

In a severe side impact, the side airbag sensor triggers the side airbag inflators. At this time a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the lateral motion of the occupants.

When the airbags inflate, they produce a fairly loud noise and release some smoke and residue along with non-toxic gas. This does not indicate a fire. This gas is normally harmless; however, for those who have delicate skin, it may cause a minor skin irritation. Be sure to wash off any residue as soon as possible to prevent any potential skin irritation.

Deployment of the airbags happens in a fraction of a second, so the airbags must inflate with considerable force. While the system is designed to reduce serious injuries, it may also cause minor burns or abrasions and swelling.

Front seats may be hot for several minutes, but the airbags themselves will not be hot. The airbags are designed to inflate only once.

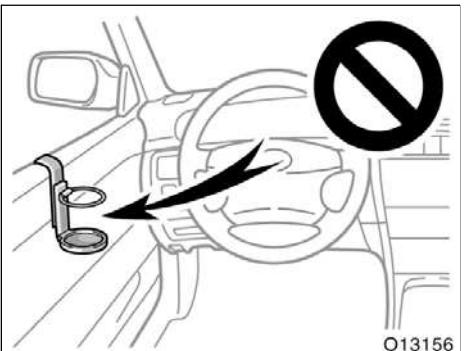
 CAUTION

- The SRS side airbag system is designed only as a supplement to the primary protection of the driver side and front passenger side seat belt systems. To ensure maximum protection in an accident, the driver and all passengers in the vehicle must wear their seat belts properly. Wearing a seat belt properly during an accident reduces the chances of death or serious injury or being thrown out of the vehicle. For instructions and precautions concerning the seat belt system, see "Seat belts" in this section.

- Improperly seated and/or restrained infants and children can be killed or seriously injured by the deploying airbags. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Toyota strongly recommends that all infants and children be placed in the rear seat of the vehicle and properly restrained. The rear seat is the safest for infants and children. For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.
- Do not allow a child to lean his/her head or any part of his/her body against the front door or the area of the seat from which the side airbag deploys even if he/she is seated in the child restraint system. It is dangerous if the side airbag inflates, and the impact could cause death or serious injury to the child. For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.



- Do not lean against the front door when the vehicle is in use, since the side airbag inflates with considerable speed and force. Otherwise, you may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.
- Sit up straight and well back in the seat, distributing your weight evenly in the seat. Do not apply excessive weight to the outer side of the front seats on vehicles with side airbags.



- Do not attach a cup holder or any other device or object on or around the door. When the side airbag inflates, the cup holder or any other device or object will be thrown with great force or the side airbag may not activate correctly, resulting in death or serious injury. Likewise, the driver and front passenger should not hold objects in their arms or on their knees.

● Do not use seat accessories which cover the parts where the side airbags inflate. Such accessories may prevent the side airbags from activating correctly, causing death or serious injury.

● Do not modify or replace the seats or upholstery of the front seats with the side airbags. Such changes may disable the system or cause the side airbags to inflate accidentally resulting in death or serious injury. Consult your Toyota dealer if you insist on modifications of this kind.

Failure to follow these instructions can result in death or serious injury.

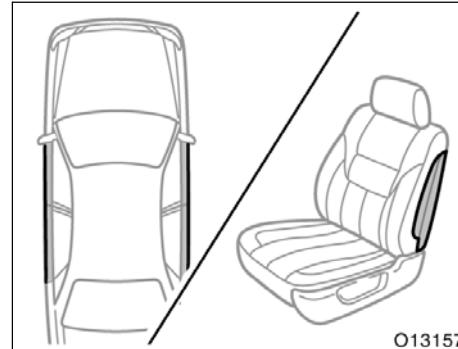
**NOTICE**

*Do not perform any of the following changes without consulting your Toyota dealer. Such changes can interfere with proper operation of the SRS side airbag system in some cases.*

- ◆ *Installation of electronic devices such as a mobile two-way radio, cassette tape player or compact disc player*
- ◆ *Modification of the suspension system*
- ◆ *Modification of the side structure of the passenger compartment*
- ◆ *Repairs made on or near the console or front seat*



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This SRS side airbag system has a service reminder indicator to inform the driver of operating problems. If either of the following conditions occurs, this indicates a malfunction of the airbags. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position, or the light remains on.
- The light comes on or flashes while driving.

In the following cases, contact your Toyota dealer as soon as possible:

- The SRS side airbags have been inflated.
- The portion of the doors (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS side airbags to inflate.
- The surface of the seats with the side airbag (shaded in the illustration) is scratched, cracked, or otherwise damaged.

**NOTICE**

*Do not disconnect the battery cables before contacting your Toyota dealer.*

**Child restraint—**

**—Child restraint precautions**

Toyota strongly urges the use of child restraint systems for children small enough to use them.

The laws of all 50 states in the U.S.A. and Canada now require the use of a child restraint system.

Your vehicle conforms to SAEJ1819.

If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. See "Seat belts" for details.



**CAUTION**

- For effective protection in automobile accidents and sudden stops, a child must be properly restrained, using a seat belt or child restraint system depending on the age and size of the child. Holding a child in your arms is not a substitute for a child restraint system. In an accident, the child can be crushed against the windshield, or between you and the vehicle's interior.

- Toyota strongly urges use of a proper child restraint system which conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never install a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is installed on the front seat.
- Unless it is unavoidable, do not install a child restraint system on the front seat.

- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying front passenger airbag could cause death or serious injury to the child.
- Do not allow the child to lean against the front door or around the front door even if the child is seated in the child restraint system. It is dangerous if the side airbags inflate, because the impact could cause death or serious injury to the child.
- Make sure that you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured.

### —Child restraint system

A child restraint system for a small child or baby must itself be properly restrained on the seat with either the lap belt or the lap portion of the lap/shoulder belt. You must carefully consult the manufacturer's instructions which accompany the child restraint system.

To provide proper restraint, use a child restraint system following the manufacturer's instructions about the appropriate age and size of the child for the child restraint system.

Install the child restraint system correctly following the instructions provided by its manufacturer. General directions are also provided under the following instructions.

The child restraint system should be installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

### ! CAUTION

- Never install a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is installed on the front seat.
- Unless it is unavoidable, do not put a child restraint system on the front seat.
- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying front passenger airbag could cause death or serious injury to the child.
- Do not allow the child to lean against the front door or around the front door even if the child is seated in the child restraint system. It is dangerous if the side airbags inflate, because the impact could cause death or serious injury to the child.

● After installing the child restraint system, make sure it is secured in place following the manufacturer's instructions. If it is not restrained securely, it may cause death or serious injury to the child in the event of a sudden stop or accident.

When not using the child restraint system, keep it secured with the seat belt or place it in the trunk or somewhere other than the passenger compartment. This will prevent it from injuring passengers in the event of a sudden stop or accident.

### —Types of child restraint system

Child restraint systems are classified into the following 3 types depending on the child's age and size.

- (A) Infant seat
- (B) Convertible seat
- (C) Booster seat

Install the child restraint system following the instructions provided by its manufacturer.

Your vehicle has anchor brackets for securing the top strap of a child restraint system.

For instructions about how to use the anchor bracket, see "—Using a top strap" in this section.

The child restraint lower anchorages approved for your vehicle may also be used. See "—Installation with the child restraint lower anchorages" in this section.



(A) Infant seat



(B) Convertible seat

—Installation with 3-point  
type seat belt



(C) Booster seat



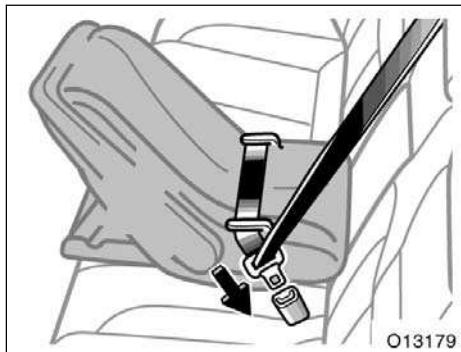
(A) INFANT SEAT INSTALLATION

An infant seat is used in rear-facing  
position only.



 CAUTION

- Never install a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.



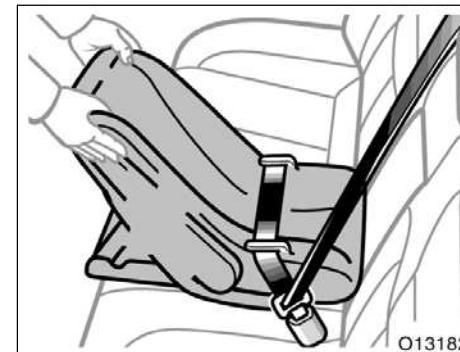
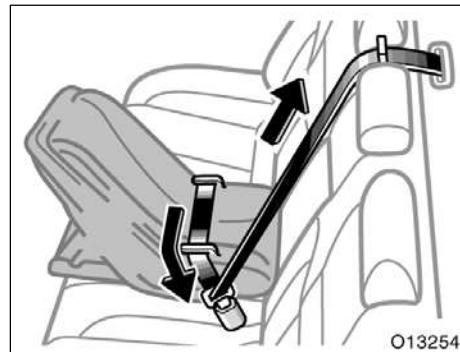
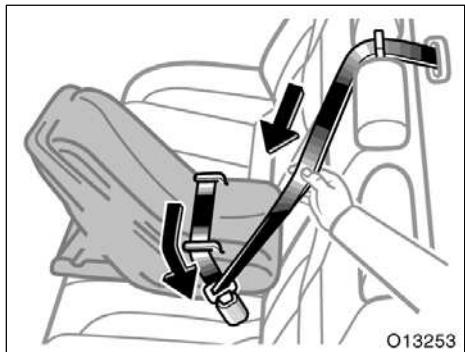
- Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This can cause death or serious injury to the child and front passenger in case of sudden braking or a collision.
- If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat.

1. Run the lap and shoulder belt through or around the infant seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

! CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from injury. Contact your Toyota dealer immediately. Do not use the child restraint system until the seat belt is fixed.

## '03 AVALON U (L/O 0206)



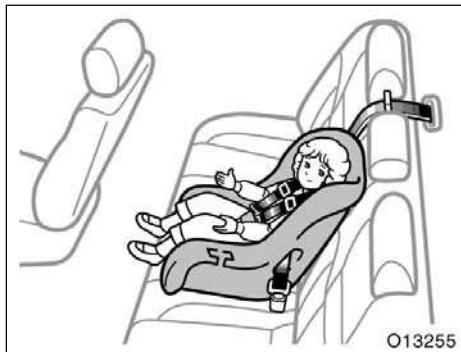
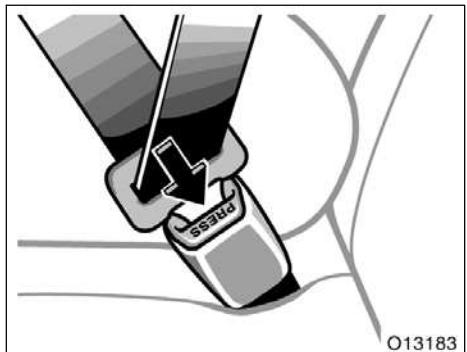
2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the infant seat securely, make sure the belt is in the lock mode before letting the belt retract.

3. While pressing the infant seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the infant seat securely.

### ! CAUTION

**Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.**



4. To remove the infant seat, press the buckle-release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

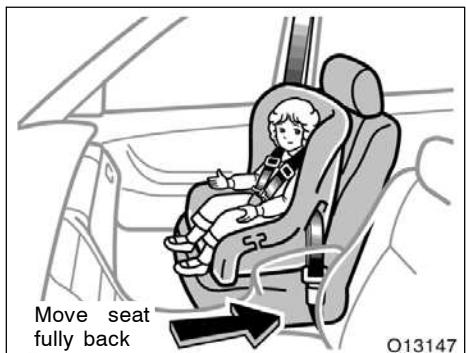
**(B) CONVERTIBLE SEAT INSTALLATION**

A convertible seat is used in forward-facing or rear-facing position depending on the child's age and size. When installing, follow the manufacturer's instruction about the applicable child's age and size as well as directions for installing the child restraint system.

**! CAUTION**

- Never install a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.

## '03 AVALON U (L/O 0206)



- Do not allow the child to lean against the front door or around the front door even if the child is seated in the child restraint system. It is dangerous if the side airbags inflate, because the impact could cause death or serious injury to the child.

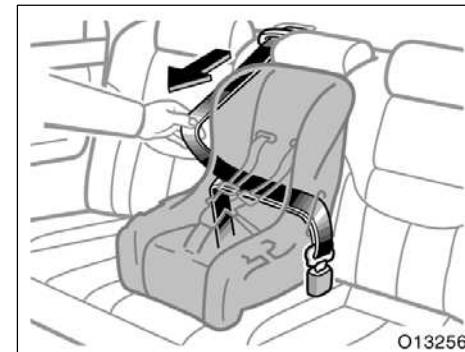
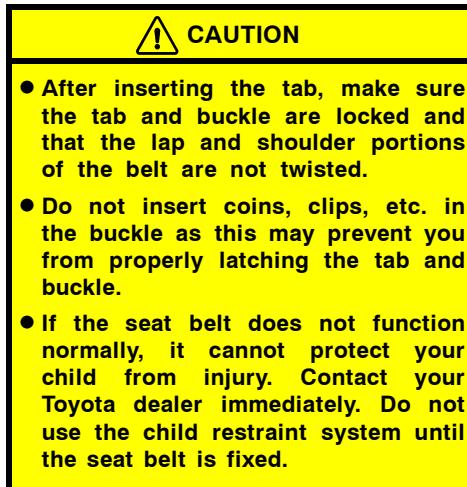


- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying front passenger airbag could cause death or serious injury to the child.

- Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This can cause death or serious injury to the child and front passenger in case of sudden braking or a collision.
- If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat.



1. Run the lap and shoulder belt through or around the convertible seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.



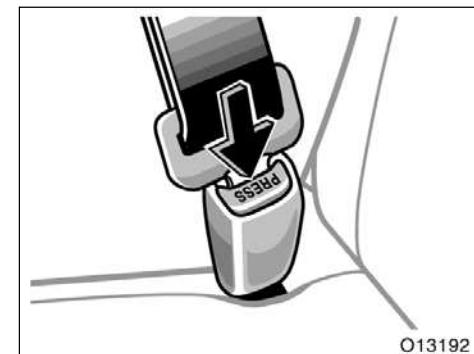
2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the convertible seat securely, make sure the belt is in the lock mode before letting the belt retract.

## '03 AVALON U (L/O 0206)



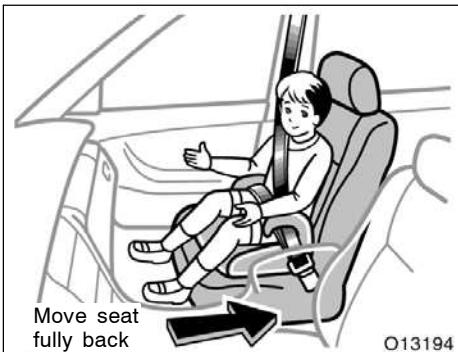
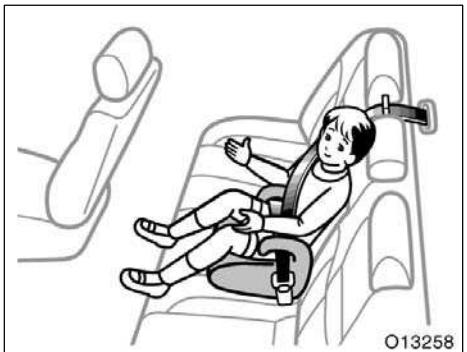
3. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.



4. To remove the convertible seat, press the buckle-release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

### CAUTION

**Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.**



- Do not allow the child to lean against the front door or around the front door even if the child is seated in the child restraint system. It is dangerous if the side airbag inflates, and the impact could cause death or serious injury to the child.

**(C) BOOSTER SEAT INSTALLATION**

A booster seat is used in forward-facing position only.

**CAUTION**

- A forward-facing child restraint system should be allowed to be installed on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying airbag could cause death or serious injury to the child.



1. Sit the child on a booster seat. Run the lap and shoulder belt through or around the booster seat and child following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt.

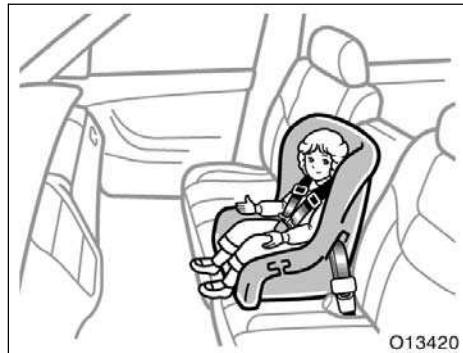
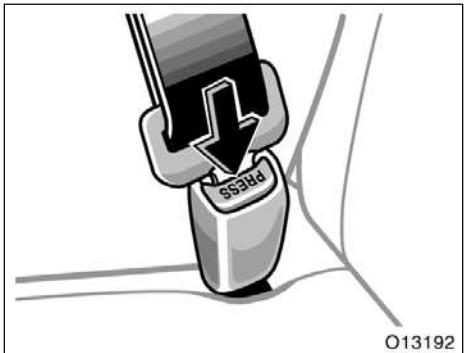
Make sure the shoulder belt is correctly across the child's shoulder and that the lap belt is positioned as low as possible on child's hips. See "Seat belts" for details.

 **CAUTION**

- Always make sure the shoulder belt is positioned across the center of child's shoulder. The belt should be kept away from child's neck, but not falling off child's shoulder. Failure to do so could reduce the amount of protection in an accident and cause serious injuries in a collision.
- Both high-positioned lap belts and loose-fitting belts could cause serious injuries due to sliding under the lap belt during a collision or other unintended result. Keep the lap belt position as low on a child's hips as possible.
- For child's safety, do not place the shoulder belt under child's arm.
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.

- If the seat belt does not function normally, it cannot protect your child from injury. Contact your Toyota dealer immediately. Do not use the child restraint system until the seat belt is fixed.

—Installation with 2-point type seat belt



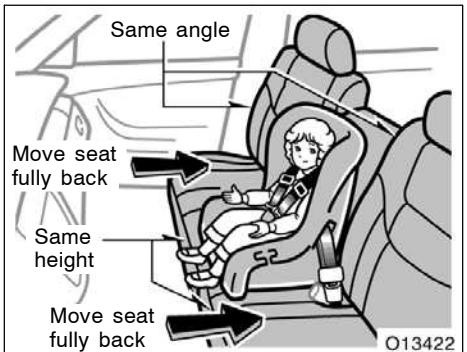
2. To remove the child restraint system, press the buckle-release button and allow the belt to retract.

**CONVERTIBLE SEAT INSTALLATION**

A convertible seat is used in forward-facing or rear-facing position depending on the child's age and size. When installing, follow the manufacturer's instruction about the applicable child's age and size as well as directions for installing the child restraint system.

**! CAUTION**

- Never install a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.



- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying front passenger airbag could cause death or serious injury to the child.

When installing a child restraint system in the front seat center position, move the driver and passenger seats as far back as possible, set both seatbacks to the same angle as the back of the child restraint system, and set both seat cushions at the same height so that the child restraint system is securely restrained.

With the child restraint system installed, check that your driving position is satisfactory and that the child restraint system does not interfere with your driving.

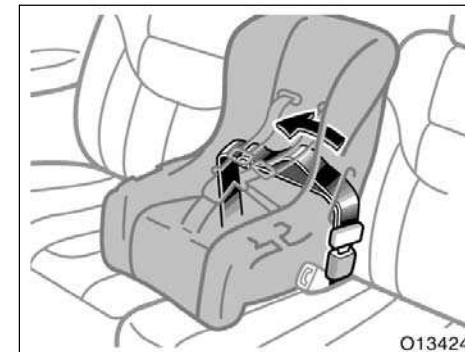
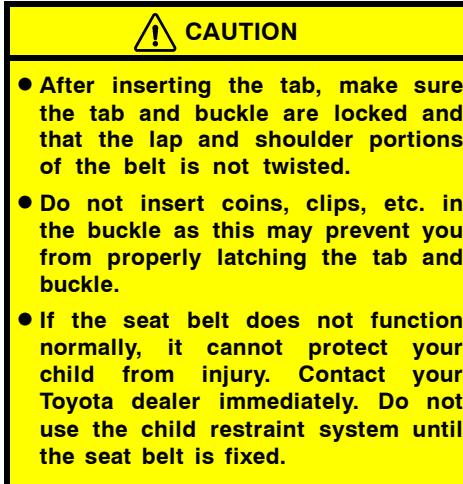
If your driving position is not satisfactory, or the child restraint system interferes with your driving, install it at another position.

! CAUTION

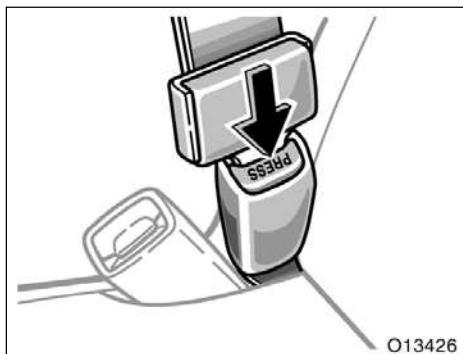
- When using a forward-facing child restraint system, move the driver and passenger seats as far back as possible, set both seatbacks to the same angle as the back of the child restraint system, set both seat cushions at the same height and make sure your driving position is satisfactory.
- Ignoring the above instructions may result in a serious injury in case of an accident.



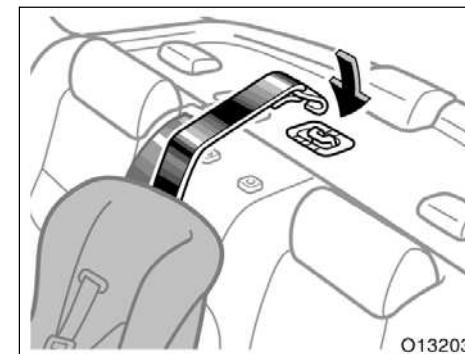
1. Run the center lap belt through or around the convertible seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.



2. While pressing the convertible seat firmly against the seat cushion and seatback, tighten the lap belt by pulling its free end to hold the convertible seat securely.



—Using a top strap

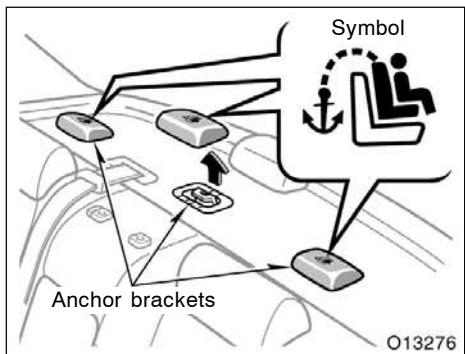


 **CAUTION**

**Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.**

3. To remove the convertible seat, press the buckle-release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

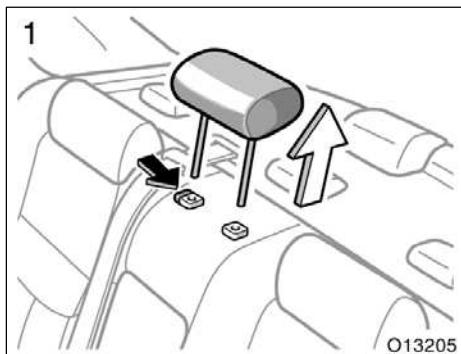
**Follow the procedure below for a child restraint system that requires the use of a top strap.**



Use the anchor bracket on the package tray behind the rear seat to attach the top strap.

Anchor brackets are installed for each rear seating position.

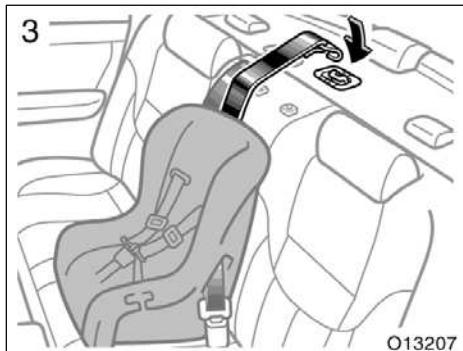
This symbol indicates the location of user ready anchor brackets.



**TO USE THE ANCHOR BRACKET:**

**1. Remove the head restraint.**

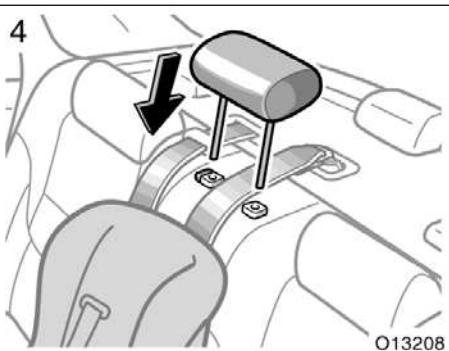
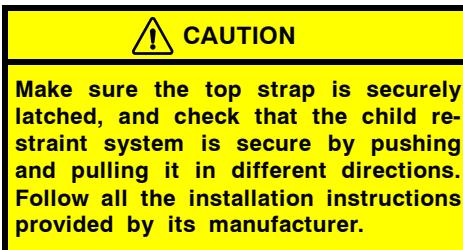
**2. Remove the anchor bracket cover with the symbol shown in the illustration.**



**3. Securely fasten the child restraint system with the seat belt.**

**Latch the hook onto the anchor bracket and tighten the top strap.**

For instructions to install the child restraint system, see "Child restraint" in this section.

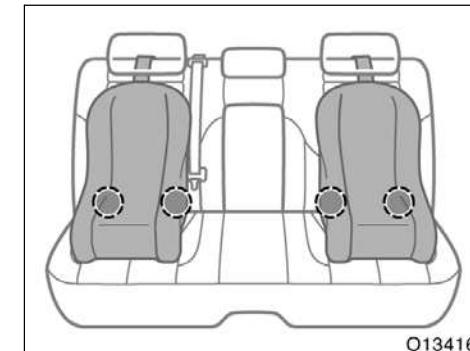


**4. Replace the head restraint.**

Store any removed covers in a safe place such as the glove box.

Be sure to replace all covers when the anchor bracket is not in use.

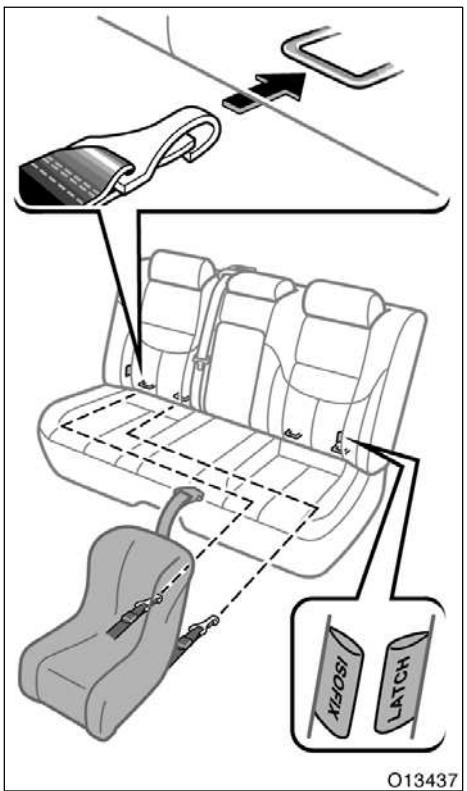
**—Installation with child restraint lower anchorages**



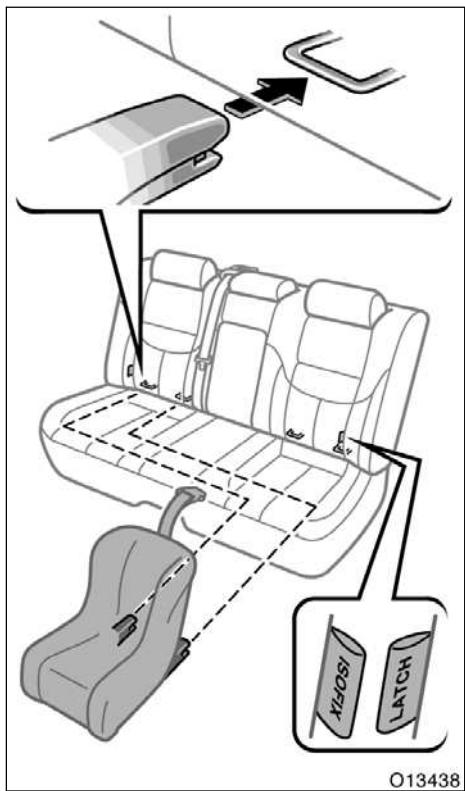
**Lower anchorages for the child restraint systems complying with the FMVSS225 specifications are installed in the rear seat.**

The anchorages are installed in the clearance between the seat cushion and seat-back of both outside rear seats.

Child restraint systems complying with the FMVSS225 specification can be fixed to these anchorages. In this case, it is not necessary to fix the child restraint system with a seat belt on the vehicle.



Type A



Type B

### CHILD RESTRAINT SYSTEM INSTALLATION

#### Type A—

1. Widen the clearance between the seat cushion and seatback a little and confirm the position of the lower anchorages near the tag on the seatback.
2. Latch the hooks of lower straps onto the anchorages and tighten the lower straps.

#### Type B—

1. Widen the clearance between the seat cushion and seatback a little and confirm the position of the lower anchorages near the tag on the seatback.
2. Latch the buckles onto the anchorages.

If your child restraint system has a top strap, it should be anchored. (For the installation of the top strap, see “—Using a top strap” in this section.)

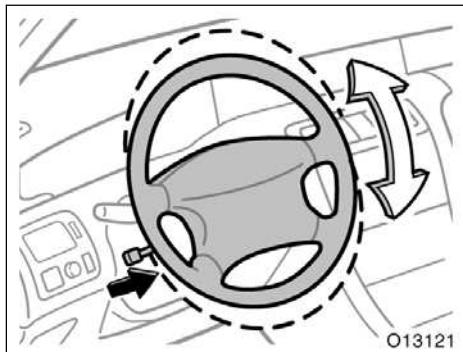
For the installation details, refer to the instruction manual equipped with each product.

### Tilt steering wheel



#### CAUTION

- When using the lower anchorages for the child restraint system, be sure that there are no irregular objects around the anchorages and that the seat belt is not caught.
- Push and pull the child restraint system in different directions to make sure it is secure. Follow all the installation instructions provided by its manufacturer.
- Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This can cause death or serious injury to a child and front passenger in case of a sudden braking or a collision.

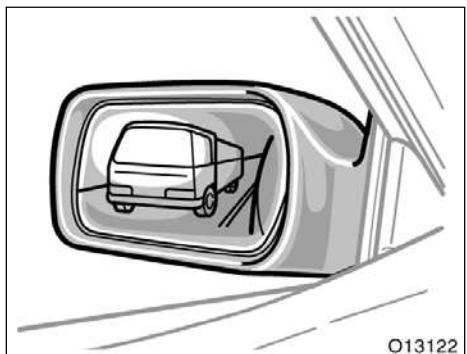


#### CAUTION

- Do not adjust the steering wheel while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.
- After adjusting the steering wheel, try moving it up and down to make sure it is locked in position.

To change the steering wheel angle, hold the steering wheel, pull the lock release lever toward you, tilt the steering wheel to the desired angle and release the lever.

When the steering wheel is in a low position, it will spring up as you release the lock release lever.

**Outside rear view mirrors—**

**Adjust the mirror so that you can just see the side of your vehicle in the mirror.**

Be careful when judging the size or distance of any object seen in the outside rear view mirror on the passenger's side. It is a convex mirror with a curved surface. Any object seen in a convex mirror will look smaller and farther away than when seen in a flat mirror.

Vehicles with the auto anti-glare inside rear view mirror—When the inside rear view mirror surface darkens in “AUTO” mode, the driver's side outside rear view mirror surface also darkens to reduce the reflection of the headlights of the vehicle behind you. (For details, see “Auto anti-glare inside rear view mirror” in this section.)

On some models, when you push the rear window defogger switch, the heater panels in the outside rear view mirrors will quickly clear the surface. (See “Rear window and outside rear view mirror defoggers” in Section 1-4.)

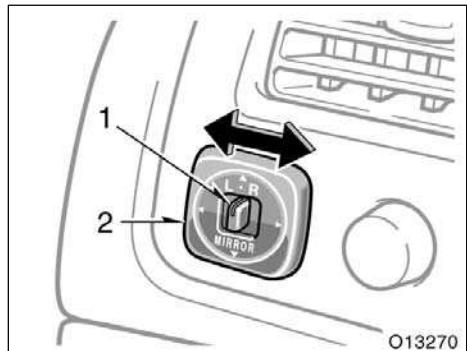
**NOTICE**

*The outside rear view mirrors are fixed in place. Do not try to fold the mirrors. It may damage the mirrors.*

**CAUTION**

- Do not adjust the mirror while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.
- On some models, since the mirror surfaces can get hot, do not touch them when the defogger switch is on.

**—Power rear view mirror control**



**To adjust a mirror, use the switches.**

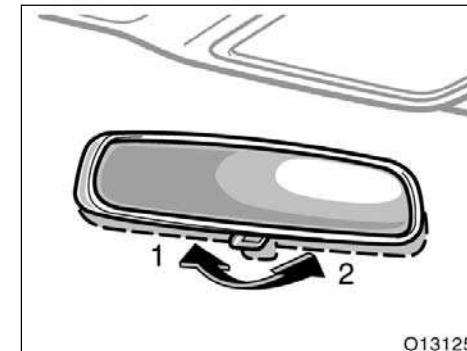
1. Master switch—To select the mirror to be adjusted  
Place the switch at "L" (left) or "R" (right).
2. Control switch—To move the mirror  
Push the switch in the desired direction.

Mirrors can be adjusted when the key is in the "ACC" or "ON" position.

**NOTICE**

*If ice should jam the mirror, do not operate the control or scrape the mirror face. Use a spray de-icer to free the mirror.*

**Anti-glare inside rear view mirror**



O13125

Adjust the mirror so that you can just see the rear of your vehicle in the mirror.

To reduce glare from the headlights of the vehicle behind you during night driving, operate the lever on the lower edge of the mirror.

Daylight driving—Lever at position 1

The reflection in the mirror has greater clarity at this position.

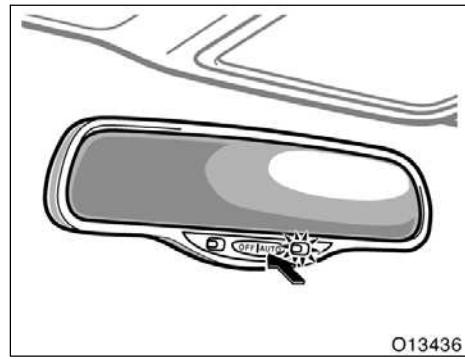
Night driving—Lever at position 2

Remember that by reducing glare you also lose some rear view clarity.

### Auto anti-glare inside rear view mirror

#### ! CAUTION

Do not adjust the mirror while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.



O13436

Adjust the mirror so that you can just see the rear of your vehicle in the mirror.

This mirror is equipped with auto anti-glare function. The function is designed to reduce glare from the headlights of the vehicle behind you during night driving.

When the ignition key is inserted and turned on, the inside rear view mirror always turns on in the "AUTO" mode.

The "AUTO" indicator illuminates to show you that the function is on.

In "AUTO" mode, if the mirror detects light from the headlights of the vehicle behind you, the mirror surface darkens slightly to reduce the reflected light.

When the inside rear view mirror surface darkens the driver's side outside rear view mirror surface also darkens.

To turn off the automatic function, press the switch on the "OFF" side.

To turn on the automatic function again, press the switch on the "AUTO" side.

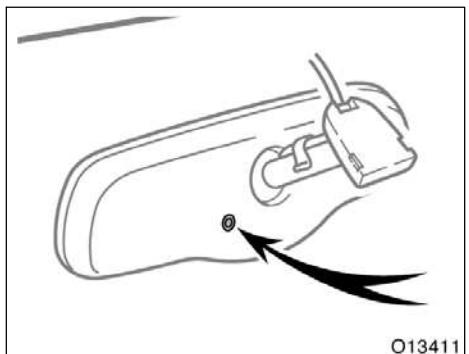
Adjust it before driving so that the rear view is optimized.

When the outside air temperature is low, it may take little longer for the mirror to darken in response to the detection of headlights.

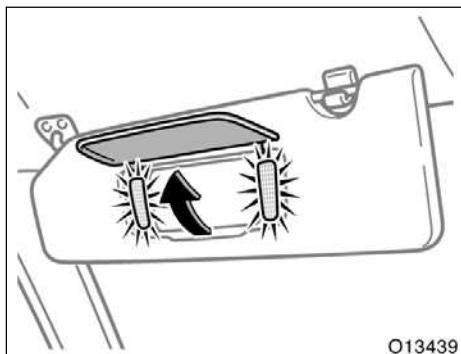
#### ! CAUTION

Do not adjust the mirror while the vehicle is moving. It may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.

**Vanity mirrors**



**To ensure correct functioning of an anti-glare mirror sensor located on the back side of the mirror, do not touch or cover the sensor with your finger or a piece of cloth, etc.**



**To use the vanity mirrors, swing down the sun visor and open the cover.**

The vanity lights come on when you open the cover.

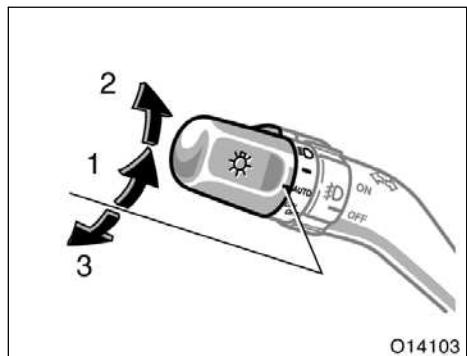
## ***SECTION 1 - 4***

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

#### **Lights, Wipers and Defogger**

Headlights and turn signals .....	98
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**Headlights and turn signals  
(for U.S.A.)**



**HEADLIGHTS**

**Manual operation—**

**To turn on the following lights: Twist the headlight/turn signal lever knob.**

Position 1—Parking, tail, license plate, side marker and instrument panel lights

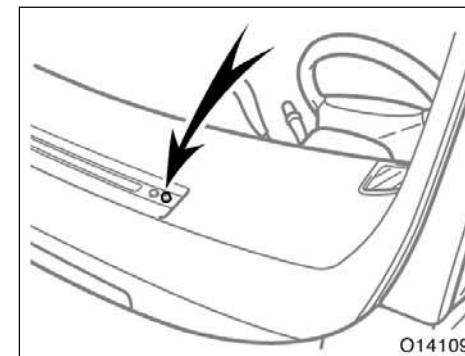
Position 2—Headlights and all of the above

**Automatic operation—**

**To turn on or off the lights automatically, twist the headlight/turn signal lever knob to the “AUTO” position when the ignition key is in the “ON” position.**

The headlights and/or all of the lights in position 1 automatically turn on or off depending on the darkness of the surroundings.

Manually twist the knob to the position 2 to turn on the headlights if they are needed immediately when entering a dark tunnel, parking structure, etc.



The automatic light control sensor is on the top of the driver's side instrument panel.

Do not place anything on the instrument panel, and/or do not affix anything on the windshield to block this sensor.

**Automatic light cut off system**

**Position 1 or "AUTO" position with the tail lights on—**

The lights automatically turn off when the driver's door is opened with the ignition key in the "ACC" or "LOCK" position.

**Position 2 or "AUTO" position with the headlights on—**

The lights automatically turn off after 30 seconds when any of the door or trunk lid is opened and closed with the ignition key in the "ACC" or "LOCK" position.

**Vehicles with wireless remote control system—**The lights can be turned off immediately by pushing the "LOCK" switch on the wireless remote control transmitter with all the doors locked and the trunk lid closed.

If any of the door or trunk lid is kept opened, the lights automatically turn off after 20 minutes.

To turn on the lights again, turn the ignition key to the "ON" position or actuate the headlight switch. If you are going to park for over one week, make sure the knob is in the "AUTO" position.

**NOTICE**

*To prevent the battery from being discharged, do not leave the lights on for a long period when the engine is not running.*

To turn off the DRL system, twist the knob to the position 3 ("DRL OFF") or turn the ignition switch off.

**Daytime running light (DRL) system**

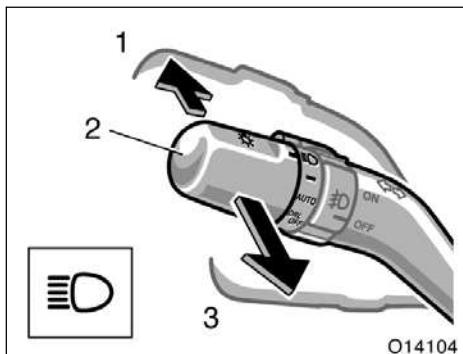
Daytime Running Light (DRL) System can make it easier for others to see the front of your vehicle during the day. The DRL system can be helpful in many different driving conditions, but they can be especially helpful in the short periods after dawn and before sunset.

The DRL system will make your headlights come on at a reduced brightness when:

- The ignition is on with the engine running.
- The light switch is in the "AUTO" position.
- The parking brake is released.

To turn on the other exterior lights and instrument panel lights, twist the knob to the position 1.

Twist the knob to the position 2 to turn the headlights to full intensity for night driving.

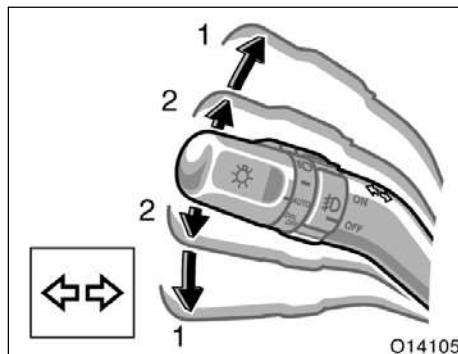


**High-Low beams**—For high beams, turn the headlights on and push the lever away from you (position 1). Pull the lever toward you (position 2) for low beams.

The headlight high beam indicator light (blue light) on the instrument panel will tell you that the high beams are on.

**Flashing the high beam headlights** (position 3)—Pull the lever all the way back. The high beam headlights turn off when you release the lever.

You can flash the high beam headlights even when the headlight switch is off.



#### TURN SIGNALS

**To signal a turn, push the headlight/turn signal lever up or down to position 1.**

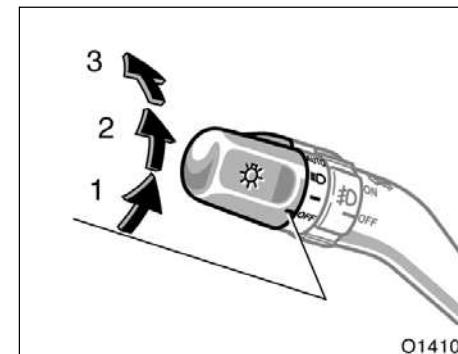
The key must be in the “ON” position.

The lever automatically returns after you make a turn, but you may have to return it by hand after you change lanes.

To signal a lane change, move the lever up or down to the pressure point (position 2) and hold it.

If the turn signal indicator lights (green lights) on the instrument panel flash faster than normal, a front or rear turn signal bulb is burned out. See “Replacing light bulbs” in Section 7-3.

#### Headlights and turn signals (for Canada)



#### HEADLIGHTS

##### Manual operation—

**To turn on the following lights: Twist the headlight/turn signal lever knob.**

Position 1—Parking, tail, license plate, side marker and instrument panel lights

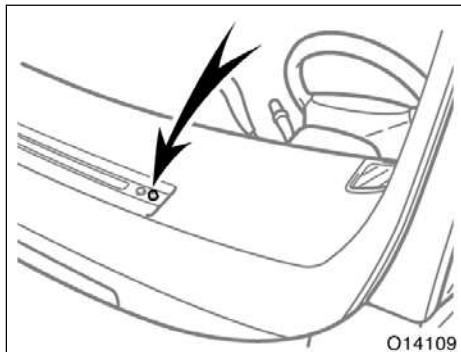
Position 2—Headlights and all of the above

**Automatic operation—**

To turn on or off the lights automatically, twist the headlight/turn signal lever knob to the position 3 ("AUTO") when the ignition key is in the "ON" position.

The headlights and/or all of the lights in position 1 automatically turn on or off depending on the darkness of the surroundings.

Manually twist the knob to the position 2 to turn on the headlights if they are needed immediately when entering a dark tunnel, parking structure, etc.



The automatic light control sensor is on the top of the driver's side instrument panel.

Do not place anything on the instrument panel, and/or do not affix anything on the windshield to block this sensor.

**Automatic light cut off system**

**Position 1 or position 3 with the tail lights on—**

The lights automatically turn off when the driver's door is opened with the ignition key in the "ACC" or "LOCK" position.

**Position 2 or position 3 with the headlights on—**

The lights automatically turn off after 30 seconds when any of the door or trunk lid is opened and closed with the ignition key in the "ACC" or "LOCK" position.

Vehicles with wireless remote control system—The lights can be turned off immediately by pushing the "LOCK" switch on the wireless remote control transmitter with all the doors locked and the trunk lid closed.

If any of the door or trunk lid is kept opened, the lights automatically turn off after 20 minutes.

To turn on the lights again, turn the ignition key to the "ON" position or actuate the headlight switch. If you are going to park for over one week, make sure the headlight switch is off.

**NOTICE**

***To prevent the battery from being discharged, do not leave the lights on for a long period when the engine is not running.***

**Daytime running light (DRL) system**

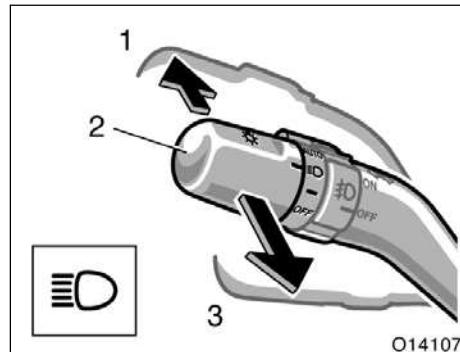
Daytime Running Light System (DRL) can make it easier for others to see the front of your vehicle during the day. The DRL system can be helpful in many different driving conditions, but they can be especially helpful in the short periods after dawn and before sunset.

The DRL system will make your headlights come on at a reduced brightness when:

- The ignition is on with the engine running.
- The headlight switch is off.
- The parking brake is released.

To turn on the other exterior lights and instrument panel lights, twist the knob to the position 1.

Twist the knob to the position 2 to turn the headlights to full intensity for night driving.

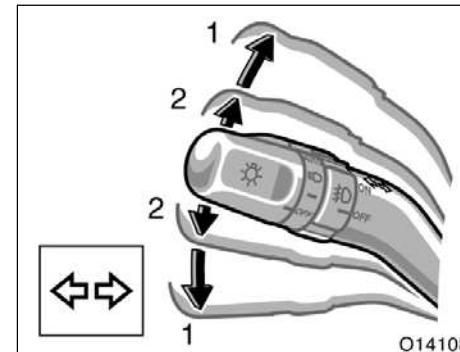


**High-Low beams**—For high beams, turn the headlights on and push the lever away from you (position 1). Pull the lever toward you (position 2) for low beams.

The headlight high beam indicator light (blue light) on the instrument panel will tell you that the high beams are on.

**Flashing the high beam headlights** (position 3)—Pull the lever all the way back. The high beam headlights turn off when you release the lever.

You can flash the high beam headlights even when the headlight switch is off.

**TURN SIGNALS**

To signal a turn, push the headlight/turn signal lever up or down to position 1.

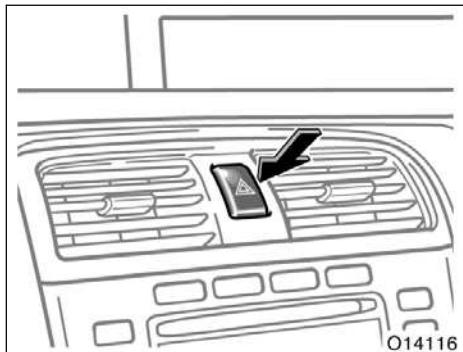
The key must be in the "ON" position.

The lever automatically returns after you make a turn, but you may have to return it by hand after you change lanes.

To signal a lane change, move the lever up or down to the pressure point (position 2) and hold it.

If the turn signal indicator lights (green lights) on the instrument panel flash faster than normal, a front or rear turn signal bulb is burned out. See "Replacing light bulbs" in Section 7-3.

### Emergency flashers



To turn on the emergency flashers, push the switch.

All the turn signal lights will flash. To turn them off, push the switch once again.

Turn on the emergency flashers to warn other drivers if your vehicle must be stopped where it might be a traffic hazard.

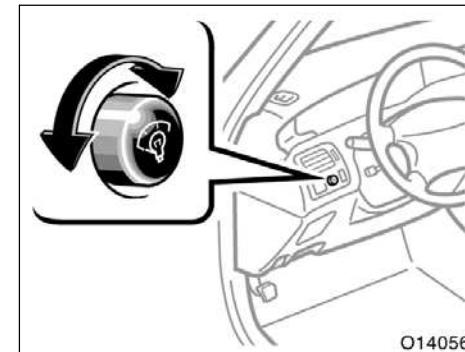
Always pull as far off the road as possible.

The turn signal light switch will not work when the emergency flashers are operating.

### NOTICE

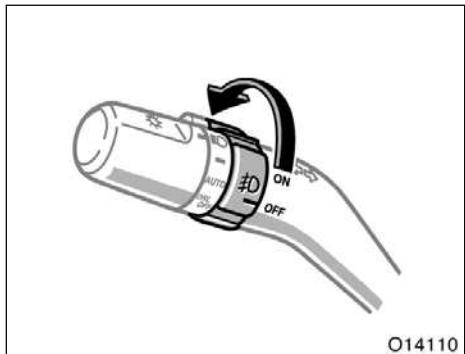
*To prevent the battery from being discharged, do not leave the switch on longer than necessary when the engine is not running.*

### Instrument panel light control



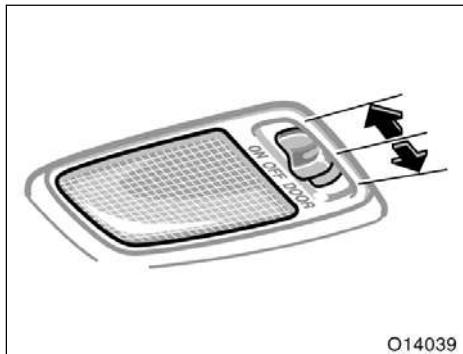
To adjust the brightness of the instrument panel lights, turn the knob.

**Front fog lights**



To turn on the front fog lights, twist the band of the headlight and turn signal switch lever. They will come on only when the headlights are on low beam.

**Interior light**



To turn on the interior light, slide the switch.

The interior light switch has the following positions:

“ON”—Keeps the light on all the time.

“OFF”—Turns the light off.

“DOOR”—Turns the light on when any of the doors is opened. The light goes off when all the doors are closed.

**ILLUMINATED ENTRY SYSTEM**

With the switch in the “DOOR” position, the light comes on when any door is opened. After all the doors are closed, the light remains on for about 15 seconds and then goes out.

However, in the following cases, the light goes off immediately.

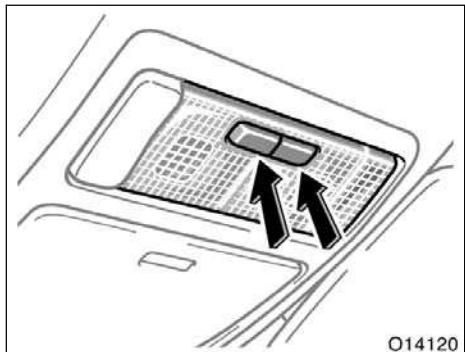
- All the doors are closed when the ignition key is in the “ACC” or “ON” position.
- The ignition key is turned to the “ACC” or “ON” after all the doors are closed.
- All the doors are closed and locked.

When all the doors are unlocked with the key or wireless remote control transmitter simultaneously, the light comes on for about 15 seconds and then fades out, even if the door is not opened.

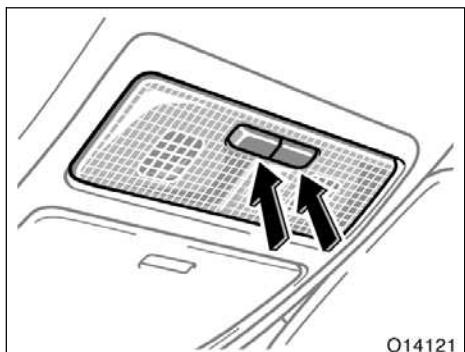
**INTERIOR LIGHT CUT OFF OPERATION**

To prevent the battery from being discharged, the light will automatically turn off when the key is removed and the door is left opened with the switch at “DOOR” position for 20 minutes or more.

**Front personal and interior lights**



With moon roof



Without moon roof

**Front personal lights—**

To turn on the front personal lights, push the switch. To turn the lights off, push the switch once again.

**Interior lights—**

The interior lights turn on when any of the door is opened. The lights go off when all of the doors are closed.

You cannot turn off the lights when any of the doors is opened.

**ILLUMINATED ENTRY SYSTEM**

The lights come on when any door is opened. After all the doors are closed, the lights remain on for about 15 seconds and then go out.

However, in the following cases, the lights go off immediately.

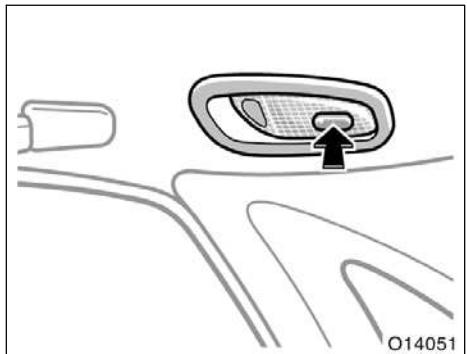
- All the doors are closed when the ignition key is in the "ACC" or "ON" position.
- The ignition key is turned to the "ACC" or "ON" after all the doors are closed.
- All the doors are closed and locked.

When all the doors are unlocked with the key or wireless remote control transmitter simultaneously, the lights come on for about 15 seconds and then fade out, even if the door is not opened.

**INTERIOR LIGHT CUT OFF OPERATION**

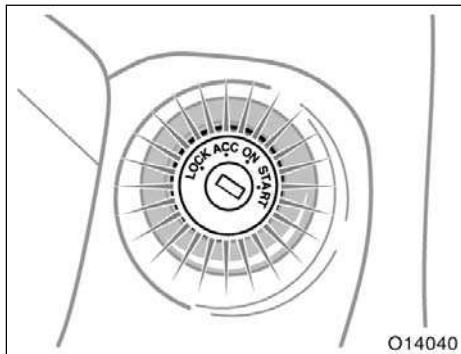
To prevent the battery from being discharged, the lights will automatically turn off when the key is removed and the door is left opened for 20 minutes or more.

**Rear personal lights**



To turn on the rear personal light, push the switch. To turn the light off, push the switch once again.

**Ignition switch light**



For easy access to the ignition switch, the ignition switch light comes on when any of the doors are opened.

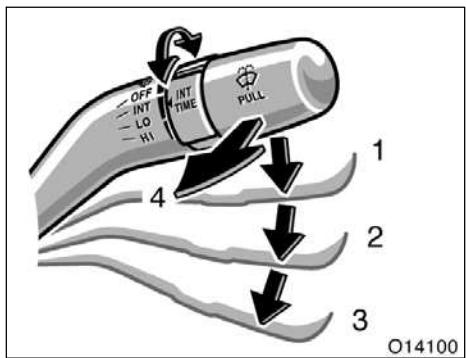
The light remains on for about 15 seconds after all the doors are closed.

However, in the following cases, the light go off immediately.

- All the doors are closed when the ignition key is in the "ACC" or "ON" position.
- The ignition key is turned to the "ACC" or "ON" after all the doors are closed.
- All the doors are closed and locked.

When all the doors are unlocked with the key or wireless remote control transmitter simultaneously, the light comes on for about 15 seconds and then fades out, even if the door is not opened.

To prevent the battery from being discharged, the light will automatically turn off when the key is removed and the door is left opened for 20 minutes or more.

**Windshield wipers and washer****(intermittent operation type)**

**To turn on the windshield wipers, move the lever to the desired setting.**

The key must be in the "ON" position.

Lever position	Operation
Position 1	Intermittent operation
Position 2	Low speed operation
Position 3	High speed operation
Position 4	Washer on

The "INT TIME" band lets you adjust the wiping time interval when the wiper lever is in the intermittent position (position 1). Twist the band upward to increase the time between sweeps, and downward to decrease it.

**To squirt washer fluid, pull the lever toward you (position 4).**

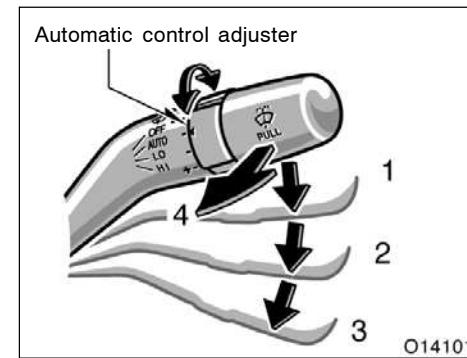
If the windshield wipers are off, they will operate a couple of times after the washer squirts.

For instructions on adding washer fluid, see "Adding washer fluid" in Section 7-3.

In freezing weather, warm the windshield with the defroster before using the washer. This will help prevent the washer fluid from freezing on your windshield, which can block your vision.

**NOTICE**

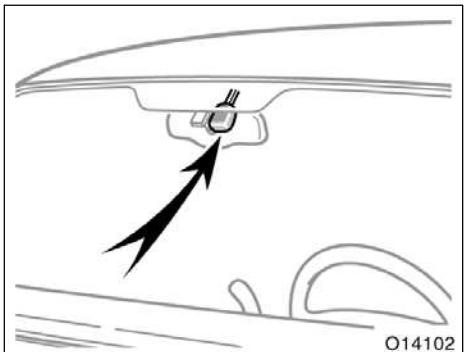
***Do not operate the wipers if the windshield is dry. It may scratch the glass or may damage wiper blades.***

**Windshield wipers and washer****(raindrop detection type)**

**To turn on the windshield wipers, move the lever to the desired setting.**

The key must be in the "ON" position.

Lever position	Operation
Position 1	Automatic operation
Position 2	Low speed operation
Position 3	High speed operation
Position 4	Washer on



#### Automatic operation (position 1)

The wiper speed is determined by the amount of raindrops and sunlight detected by the automatic wiper control sensor.

The automatic wiper control sensor is on the inside of the windshield as shown above.

If you feel that the operation of the automatic wiper control is too fast or too slow, twist the automatic control adjuster in the “-” direction to lower sensitivity, and “+” direction to boost the sensitivity.

Even if the wiper lever is in the position 1, the system will switch to intermittent operations in the following conditions:

- When the windshield gets extremely cold (at less than  $-10^{\circ}\text{C}$  or  $14^{\circ}\text{F}$ )
- When the system malfunctions

However, when the windshield gets extremely hot (at more than  $90^{\circ}\text{C}$  or  $194^{\circ}\text{F}$ ), the wipers do not operate even if the wiper lever is in the position 1.

When the ignition switch is turned off with the wiper lever in the position 1, and then the ignition switch is turned on again, the automatic operation may not work even if raindrops are on the windshield.

In this case, move the lever to another position and return it to the position 1 again.

#### ! CAUTION

Be careful not to get your fingers caught between the wipers and windshield.

When the wiper lever is in the position 1 with the ignition switch on, the wipers could operate automatically in the following cases:

- If you touch the upper center of the windshield adjacent to the sensor.
- If you wipe the upper center of the windshield (adjacent to which the sensor is located) with a towel or other object.
- If the windshield vibrates.
- If you touch the sensor.

#### NOTICE

*Do not apply detergent to or wet the automatic wiper control sensor when cleaning the inside of the windshield.*

**To squirt washer fluid, pull the lever toward you (position 4).**

If the windshield wipers are off, they will operate a couple of times after the washer squirts.

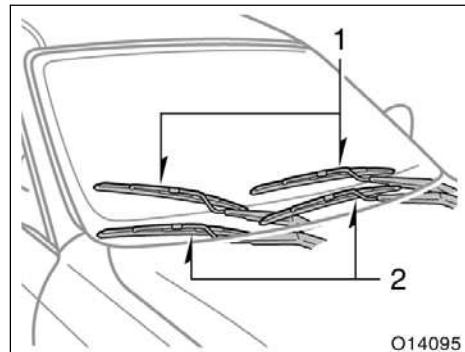
For instructions on adding washer fluid, see "Adding washer fluid" in Section 7-3.

In freezing weather, warm the windshield with the defroster before using the washer. This will help prevent the washer fluid from freezing on your windshield, which can block your vision.

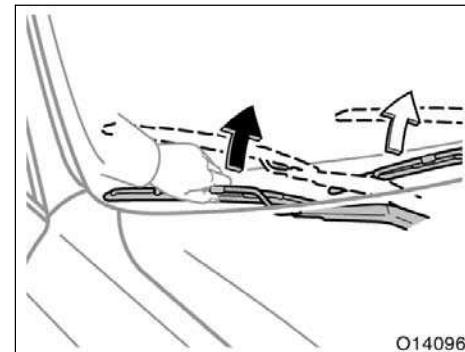
#### NOTICE

***Do not operate the wipers if the windshield is dry. It may scratch the glass or may damage wiper blades.***

#### Shifting the windshield wiper position



O14095



O14096

The wiper blades retract under the hood when the wipers are turned off.

In the following cases, the wipers should be shifted from the retracted position (position 2) to the rest position (position 1) above the hood level.

- When cleaning the windshield
- When inspecting or replacing the wipers
- When the retraction may be obstructed by snow, etc., at the bottom of the windshield

Other than the above cases, keep the wipers in the retracted position.

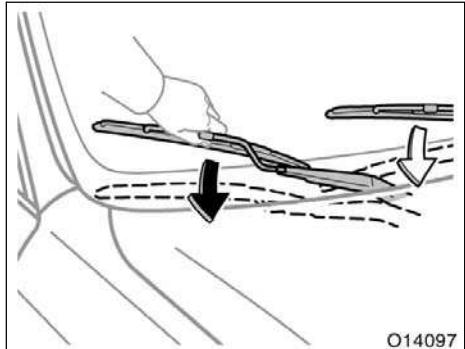
#### SHIFTING TO THE REST POSITION

**Hold the connection of the wiper arm and wiper blade and pull it upward for more than 10 cm (3.9 in.) along the windshield glass with the force of about 98 N (10 kgf, 22 lbf).**

#### NOTICE

***To prevent the wiper blades from being deformed, be sure to hold the connection of the wiper arm and wiper blade securely.***

**Rear window and outside rear view mirror defoggers**



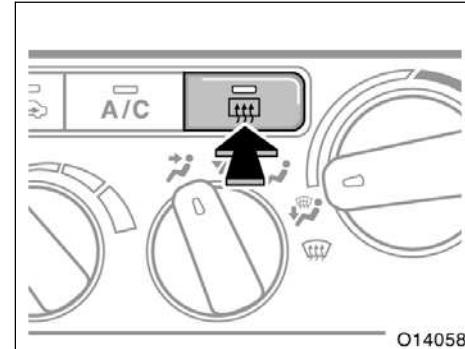
O14097

**RETURNING TO THE RETRACTED POSITION**

Push the connection of the wiper arm and wiper blade downward.

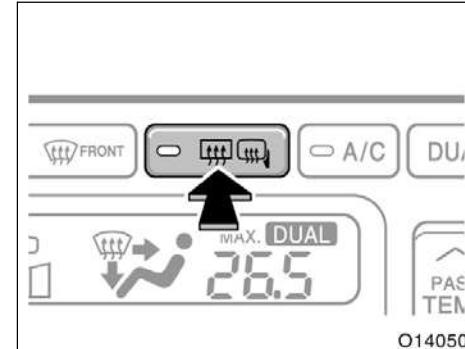
**NOTICE**

*To prevent the wiper blades from being deformed, be sure to hold the connection of the wiper arm and wiper blade securely.*



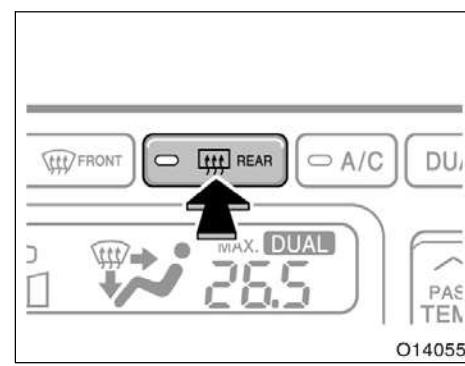
O14058

Type A



O14050

Type C



O14055

Type B

**To defog or defrost the rear window, push the switch.**

The key must be in the "ON" position.

The thin heater wires on the inside of the rear window will quickly clear the surface. An indicator light will illuminate to indicate the defogger is operating.

Type C—The heater panels in the outside rear view mirrors will also quickly clear the surfaces. Keep your hands off the mirror faces when the switch is on.

Push the switch once again to turn the defoggers off.

The system will automatically shut off after the defogger has operated about 15 minutes.

 **CAUTION**

**Type C—Since the mirror surfaces can get hot, do not touch them when the defogger switch is on.**

Make sure you turn the defoggers off when the surfaces are clear. Leaving the defoggers on for a long time could cause the battery to discharge, especially during stop-and-go driving. The defoggers are not designed for drying rain water or for melting snow.

On some models, if the outside rear view mirrors are heavily coated with ice, use a spray de-icer before operating the switch.

**NOTICE**

***When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires or connectors.***

**'03 AVALON U (L/O 0206)**

## ***SECTION 1 - 5***

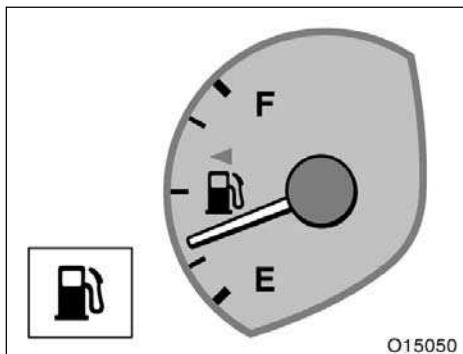
### **OPERATION OF INSTRUMENTS AND CONTROLS**

#### **Gauges, Meters and Service reminder indicators**

Fuel gauge .....	114
Engine coolant temperature gauge .....	114
Tachometer .....	115
Odometer and two trip meters .....	115
Service reminder indicators and warning buzzers .....	116



### Fuel gauge



**The gauge indicates the approximate quantity of the fuel remaining in the tank when the ignition switch is on.**

Nearly full—Needle at "F"

Nearly empty—Needle at "E"

It is a good idea to keep the tank over 1/4 full.

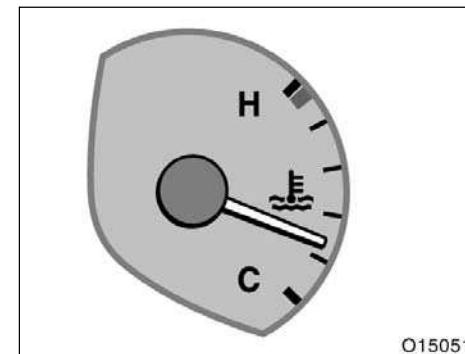
If the fuel level approaches "E" or the low fuel level warning light comes on, fill the fuel tank as soon as possible.

On inclines or curves, due to the movement of fuel in the tank, the fuel gauge needle may fluctuate or the low fuel level warning light may come on earlier than usual.

If the fuel tank is completely empty, the malfunction indicator lamp comes on. Fill the fuel tank immediately.

The indicator lamp goes off after driving several times. If the indicator lamp does not go off, contact your Toyota dealer as soon as possible.

### Engine coolant temperature gauge



**The gauge indicates the engine coolant temperature when the ignition switch is on. The engine operating temperature will vary with changes in weather and engine load.**

If the needle moves into the red zone, your engine is too hot. If your vehicle overheats, stop your vehicle and allow the engine to cool.

Your vehicle may overheat during severe operating conditions, such as:

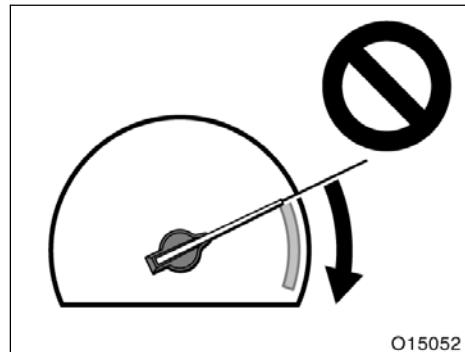
- Driving up a long hill on a hot day.
- Reducing speed or stopping after high speed driving.

- Idling for a long period with the air conditioning on in stop-and-go traffic.
- Towing a trailer.

**NOTICE**

◆ *Do not remove the thermostat in the engine cooling system as this may cause the engine to overheat. The thermostat is designed to control the flow of coolant to keep the temperature of the engine within the specified operating range.*

◆ *Do not continue driving with an overheated engine. See "If your vehicle overheats" in Section 4.*

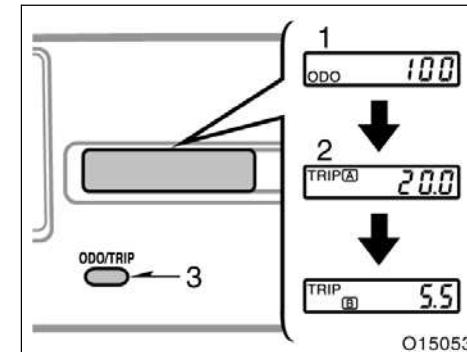
**Tachometer**

The tachometer indicates engine speed in thousands of rpm (revolutions per minute). Use it while driving to select correct shift points and to prevent engine lugging and over-revving.

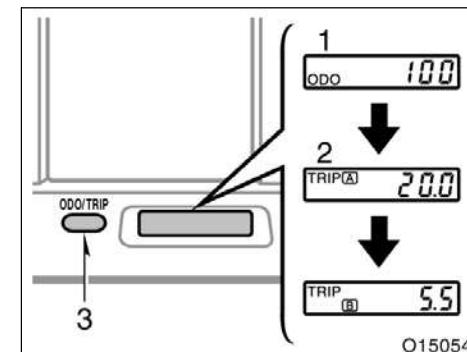
Driving with the engine running too fast causes excessive engine wear and poor fuel economy. Remember, in most cases the slower the engine speed, the greater the fuel economy.

**NOTICE**

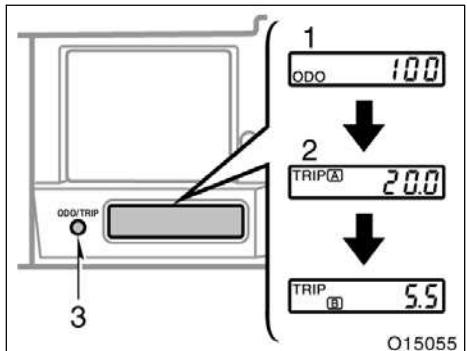
*Do not let the indicator needle get into the red zone. This may cause severe engine damage.*

**Odometer and two trip meters**

Type A



Type B



Type C

**This meter displays the odometer and two trip meters when the ignition switch is on.**

1. Odometer—Shows the total distance the vehicle has been driven.
2. Two trip meters—Show two different distances independently driven since the last time each trip meter was set to zero.

You can use one trip meter to calculate the fuel economy and the other to measure the distance on each trip. All trip meter data is cancelled if the electrical power source is disconnected.

3. "ODO/TRIP" button—Resets the two trip meters to zero, and also change the meter display.

To change the meter display, quickly push and release the button. The meter display changes in the order from the odometer to trip meter A to trip meter B, then back to the odometer each time you push.

To reset the trip meter A to zero, display the meter A reading, then push and hold the button until the meter is set to zero. The same process can be applied for resetting the trip meter B.

### Service reminder indicators and warning buzzers

	If the indicator or buzzer comes on...	Do this.
(a) <b>BRAKE</b> or 	If parking brake is off, stop immediately and contact Toyota dealer.	
(b) (indicator and buzzer)	Fasten driver's seat belt.	
(c) <b>PASSENGER</b> 	Fasten front outside passenger's seat belt.	
(d)	Stop and check.	
(e)	Stop and check.	

If the indicator or buzzer comes on...		Do this.
(f)	 CHECK	Take vehicle to Toyota dealer.
(g)		Fill up tank.
(h)	<b>ABS</b> or 	Take vehicle to Toyota dealer. If brake system warning light is also on, stop immediately and contact Toyota dealer.
(i)		Close all doors.
(j)		Replace bulb.

If the indicator or buzzer comes on...		Do this.
(k)		Take vehicle to Toyota dealer immediately.
(l)	<b>VSC</b>	Take vehicle to Toyota dealer.
(m)		Add washer fluid.
(n)	Key reminder buzzer	Remove key.

**(a) Brake System Warning Light**

This light comes on in the following cases when the ignition key is in the "ON" position.

● **When the parking brake is applied...**

This light comes on for a few seconds when the ignition key is turned to the "ON" position even after the parking brake is released.

● **When the brake fluid level is low...**

**! CAUTION**

**It is dangerous to continue driving normally when the brake fluid level is low.**

**Have your vehicle checked at your Toyota dealer in the following cases:**

- The light does not come on even if the parking brake is applied when the ignition key is in the "ON" position.
- The light does not come on even if the ignition key is turned on with the parking brake released.

A warning light turning on briefly during operation does not indicate a problem.

 **CAUTION**

If either of the following conditions occurs, immediately stop your vehicle at a safe place and contact your Toyota dealer.

- The light does not turn off even after the parking brake is released while the engine is running.

In this case, the brakes may not work properly and your stopping distance will become longer. Depress the brake pedal firmly and bring the vehicle to an immediate stop.

- The brake system warning light remains on together with the "ABS" warning light.

In this case, not only the anti-lock brake system will fail but also the vehicle will become extremely unstable during braking.

**(b) Driver's Seat Belt Reminder Light and Buzzer**

This light and buzzer remind you to buckle up the driver's seat belt.

Once the ignition key is turned to "ON" or "START", the reminder light flashes and buzzer sounds if the driver's seat belt is not fastened. Unless the driver fastens the belt, the light keep flashing and the buzzer sounds for about 4 to 8 seconds.

**(c) Front Outside Passenger's Seat Belt Reminder Light**

This light reminds you to buckle up the front outside passenger's seat belt.

Once the ignition key is turned to "ON" or "START", the reminder light flashes if a passenger sits in the front outside passenger seat and does not fasten the seat belt. Unless the front outside passenger fastens the belt, the light stays on. This light reminds you to buckle up the front outside passenger's seat belt.

If luggage load is placed on the front outside passenger seat, depending on its weight and how it is placed on the seat, built-in sensors in the seat cushion may detect the pressure, causing the reminder light to come on.

**(d) Discharge Warning Light**

This light warns that the battery is being discharged.

If it comes on while you are driving, there is a problem somewhere in the charging system.

The engine ignition will continue to operate, however, until the battery is discharged. Turn off the air conditioning, blower, radio, etc., and drive directly to the nearest Toyota dealer or repair shop.

**NOTICE**

***Do not continue driving if the engine drive belt is broken or loose.***

**(e) Low Engine Oil Pressure Warning Light**

This light warns that the engine oil pressure is too low.

If it flickers or stays on while you are driving, pull off the road to a safe place and stop the engine immediately. Call a Toyota dealer or qualified repair shop for assistance.

The light may occasionally flicker when the engine is idling or it may come on briefly after a hard stop. There is no cause for concern if it then goes out when the engine is accelerated slightly.

The light may come on when the oil level is extremely low. It is not designed to indicate low oil level, and the oil level must be checked using the level dipstick.

#### NOTICE

***Do not drive the vehicle with the warning light on—even for one block. It may ruin the engine.***

#### (f) Malfunction Indicator Lamp

**This lamp comes on when the ignition key is turned to the “ON” position and goes off after the engine starts. This means that the warning light system is operating properly.**

**If the lamp remains on, or the lamp comes on while driving, first check the followings.**

- Empty fuel tank

If the fuel tank is empty, refuel immediately.

- Loose fuel tank cap

If the fuel tank cap is loose, securely tighten it.

These cases are temporary malfunctions. The malfunction indicator lamp will go off after taking several driving trips.

If the lamp will not go off even after the several trips, contact your Toyota dealer as soon as possible.

**If the fuel tank is not empty or the fuel tank cap is not loose...**

- There is a problem somewhere in the engine, emission control system, automatic transmission electrical system or warning light system itself.

Contact your Toyota dealer as soon as possible to service the vehicle.

**Emissions Inspection and Maintenance (I/M) programs**

Your vehicle may not pass a state emission inspection if the malfunction indicator lamp remains on. Contact your Toyota dealer to check your vehicle's emission control system and OBD (On-Board Diagnostics) system before taking your vehicle for the inspection.

For details, see “Emissions Inspection and Maintenance (I/M) programs” in Section 6.

#### (g) Low Fuel Level Warning Light

This light comes on when the fuel level in the tank becomes nearly empty. Fill up the tank as soon as possible.

On inclines or curves, due to the movement of fuel in the tank, the low fuel level warning light may come on earlier than usual.

#### (h) “ABS” Warning Light

The light comes on when the ignition key is turned to the “ON” position. If the anti-lock brake system and the brake assist system work properly, the light turns off after a few seconds. Thereafter, if the system malfunctions, the light comes on again.

When the “ABS” warning light is on (and the brake system warning light is off), the anti-lock brake system, the brake assist system, the traction control system and the vehicle skid control system do not operate, but the brake system still operates conventionally.

When the “ABS” warning light is on (and the brake system warning light is off), the anti-lock brake system does not operate so that the wheels could lock up during a sudden braking or braking on slippery road surfaces.

If either of the following conditions occurs, this indicates a malfunction somewhere in the parts monitored by the warning light. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position, or remains on.
- The light comes on while you are driving.

A warning light turning on briefly during operation does not indicate a problem.

 **CAUTION**

If the "ABS" warning light remains on together with the brake system warning light, immediately stop your vehicle at a safe place and contact your Toyota dealer.

In this case, not only the anti-lock brake system will fail but also the vehicle will become extremely unstable during braking.

**(i) Open Door Warning Light**

This light remains on until all the doors are completely closed.

**(j) Rear Light Failure Warning Light**

If this light comes on when the headlight switch is turned on, it indicates that one or more of the tail lights are burned out.

If it comes on when the brake pedal is depressed, one or more stop lights are burned out.

Have defective bulbs replaced as soon as possible.

**(k) SRS Warning Light**

This light will come on when the ignition key is turned to the "ON" position. After about 6 seconds, the light will go off. This means the system of the airbags and front seat belt pretensioners are operating properly.

This warning light system monitors the airbag sensor assembly, front airbag sensors, side airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources.

If either of the following conditions occurs, this indicates a malfunction somewhere in the parts monitored by the warning light system. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position or remains on.
- The light comes on or flashes while driving.

**(l) "VSC" Warning Light**

The light warns that there is a problem somewhere in the vehicle skid control system or traction control system.

The light will come on when the ignition key is turned to "ON", and will go off after about a few seconds.

If the light comes on while driving, the vehicle skid control system and traction control system do not work. However, as conventional braking operates when applied, there is no problem to continue your driving.

In the following cases, contact your Toyota dealer:

- The light does not come on after the ignition is turned to on.
- The light is left on after the ignition is turned to on.
- The light comes on while driving.

The "TRAC OFF" indicator light will come on when the "VSC" warning light comes on even if the "TRAC OFF" switch is not pushed.

**(m) Low Windshield Washer Fluid Level Warning Light**

The light warns that the windshield washer fluid level is too low. Add washer fluid at your earliest opportunity. (For instructions, see "Adding washer fluid" in Section 7-3.)

**(n) Key Reminder Buzzer**

This buzzer reminds you to remove the key when you open the driver's door with the ignition key in the "ACC" or "LOCK" position.

**CHECKING SERVICE REMINDER INDICATORS (except the low fuel level warning light and low windshield washer fluid level warning light)**

1. Apply the parking brake.
2. Open one of the doors.  
The open door warning light should come on.
3. Close the door.  
The open door warning light should go off.
4. Turn the ignition key to "ON", but do not start the engine.

All the service reminder indicators except the open door warning light should come on. The "ABS" and "VSC" warning lights, "TRAC OFF" and slip indicator lights go off after a few seconds. The SRS warning light goes off after about 6 seconds.

If any service reminder indicator or warning buzzer does not function as described above, have it checked by your Toyota dealer as soon as possible.

**'03 AVALON U (L/O 0206)**

## ***SECTION 1 - 6***

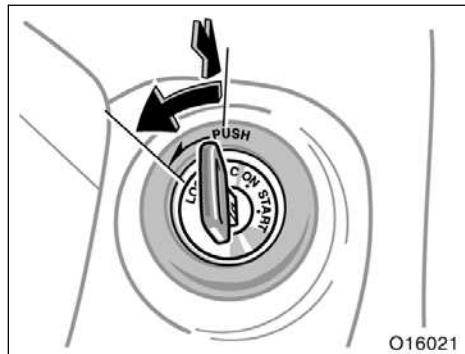
### **OPERATION OF INSTRUMENTS AND CONTROLS**

#### **Ignition switch, Transmission and Parking brake**

Ignition switch with steering lock .....	124
Automatic transmission .....	125
Traction control system .....	132
Vehicle skid control system .....	135
Parking brake .....	136
Cruise control .....	137



### Ignition switch with steering lock



**“START”—Starter motor on. The key will return to the “ON” position when released.**

For starting tips, see Section 3.

**“ON”—Engine on and all accessories on.**

This is the normal driving position.

**“ACC”—Accessories such as the radio operate, but the engine is off.**

If you leave the key in the “ACC” or “LOCK” position and open the driver’s door, a buzzer will remind you to remove the key.

**“LOCK”—Engine is off and the steering wheel is locked. The key can be removed only at this position.**

124

You must push in the key to turn the key from “ACC” to the “LOCK” position. The selector lever must be in the “P” position before pushing the key.

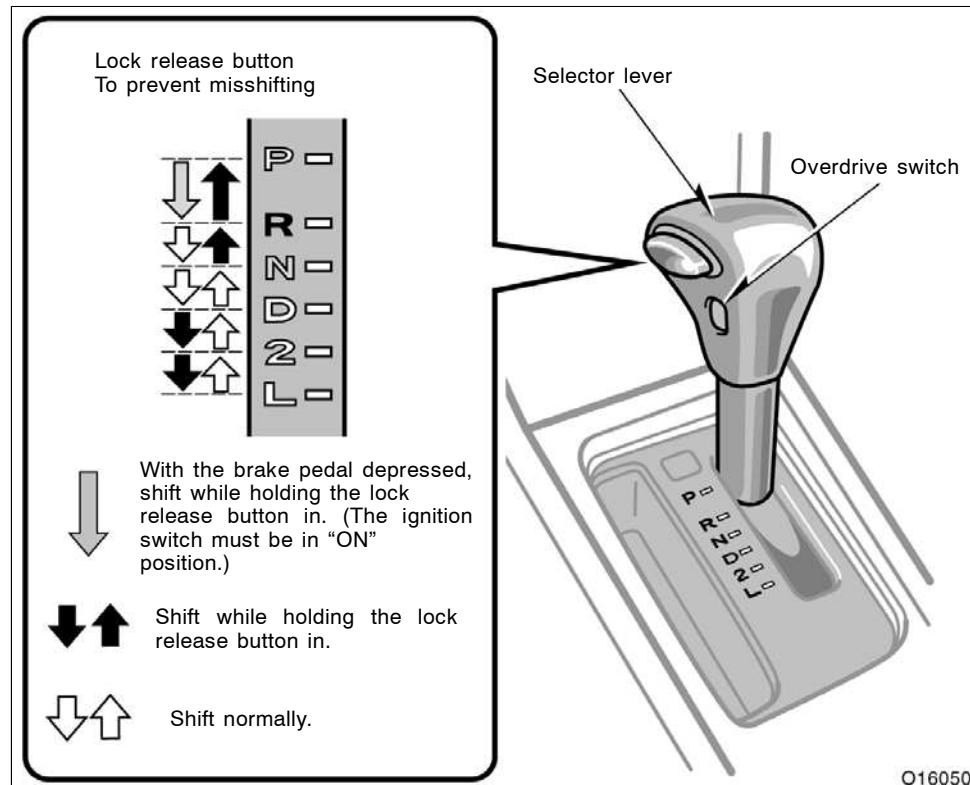
**Vehicles with engine immobiliser system—**Once you remove the key, the engine immobiliser system is automatically set. (See “Engine immobiliser system” in Section 1-2.)

When starting the engine, the key may seem stuck at the “LOCK” position. To free it, first be sure the key is pushed all the way in, and then rock the steering wheel slightly while turning the key gently.

If the automatic unlocking operation linked with the ignition switch is set, all doors are automatically unlocked when the ignition switch is turned from the “ON” position to the “ACC” or “LOCK” position. For details, see “—Automatic door locking and unlocking functions” in Section 1-2.

#### NOTICE

*Do not leave the key in the “ON” position if the engine is not running. The battery will discharge and the ignition could be damaged.*

**Automatic transmission****►Floor shift type**

Your automatic transmission has a shift lock system to minimize the possibility of incorrect operation. This means you can only shift out of "P" position when the brake pedal is depressed (with the ignition switch in "ON" position and the lock release button depressed).

**(a) Selector lever**

The shift position is also displayed on the instrument cluster.

**P:** Parking, engine starting and key removal

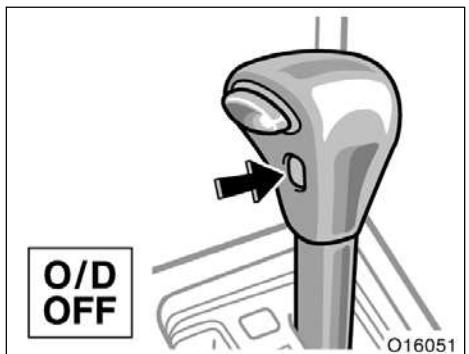
**R:** Reverse

**N:** Neutral

**D:** Normal driving (with overdrive on)

**2:** Stronger engine braking

**L:** Maximum engine braking



### (b) Overdrive switch

You can select either third gear (with overdrive off) or fourth gear (with overdrive on) by pushing this switch.

To turn the overdrive off, push the switch. The "O/D OFF" indicator light should come on. To turn the overdrive on again, push the switch again. The "O/D OFF" indicator light should go off.

Always drive your vehicle with the overdrive on for better fuel economy and quieter driving.

If the engine is turned off when the overdrive is off and restarted, the overdrive will automatically be on.

When the cruise control is being used, even if you downshift the transmission by pushing and releasing the overdrive switch, engine braking will not be enabled because the cruise control is not cancelled.

For ways to decrease the vehicle speed, see "Cruise control" in this section.

### (c) Normal driving

1. Start the engine as instructed in "How to start the engine" in Section 3. The transmission must be in "P" or "N".
2. With your foot holding down the brake pedal, shift the selector lever to "D".

When the lever is in the "D" position, the automatic transmission system will select the most suitable gear for running conditions such as normal cruising, hill climbing, hard towing, etc.

Always turn the overdrive on for better fuel economy and quieter driving. If the engine coolant temperature is low, the transmission will not shift into the overdrive gear even with the overdrive on.

### CAUTION

**Never put your foot on the accelerator pedal while shifting.**

3. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.

If the automatic locking operation linked with the shift position is set, all doors are automatically locked when the selector lever is moved out of the "P" position after the ignition switch is turned to the "ON" position and all the doors are closed. For details, see "—Automatic door locking and unlocking functions" in Section 1-2.

### (d) Using engine braking

To use engine braking, you can downshift the transmission as follows:

- Push the overdrive switch. The "O/D OFF" indicator light will come on and the transmission will downshift to third gear.
- Shift into the "2" position. The transmission will downshift to second gear when the vehicle speed drops down to or lower than 132 km/h (82 mph), and stronger engine braking will be enabled.
- Shift into the "L" position. The transmission will downshift to first gear when the vehicle speed drops down to or lower than 59 km/h (36 mph), and maximum engine braking will be enabled.

When the cruise control is being used, even if you downshift the transmission by pushing and releasing the overdrive switch, engine braking will not be enabled because the cruise control is not cancelled.

For ways to decrease the vehicle speed, see "Cruise control" in this section.

#### CAUTION

Be careful when downshifting on a slippery surface. Abrupt shifting could cause the vehicle to spin or skid.

#### (e) Using "2" and "L" positions

The "2" and "L" positions are used for strong engine braking as described previously.

With the selector lever in "2" or "L", you can start the vehicle in motion as with the lever in "D".

With the selector lever in "2", the vehicle will start in first gear and automatically shift to second gear.

With the selector lever in "L", the transmission is engaged in first gear.

#### **NOTICE**

◆ *Be careful not to over-rev the engine. Watch the tachometer to keep engine rpm from going into the red zone. The approximate maximum allowable speed for each position is given below for your reference:*

*"2" ..... 139 km/h (86 mph)  
"L" ..... 76 km/h (47 mph)*

◆ *Do not continue hill climbing or hard towing for a long time in the "2" or "L" position. This may cause severe automatic transmission damage from overheating. To prevent such damage, "D" position should be used in hill climbing or hard towing.*

#### **NOTICE**

*Never shift into reverse while the vehicle is moving.*

#### (g) Parking

1. Bring the vehicle to a complete stop.
2. With the brake pedal pressed down, fully depress the parking brake pedal to apply the parking brake securely.
3. With the brake pedal pressed down, shift the selector lever to the "P" position.

#### CAUTION

Never attempt to move the selector lever into "P" position under any circumstances while the vehicle is moving. Serious mechanical damage and loss of vehicle control may result.

If the automatic unlocking operation linked with the shift position is set, all doors are automatically unlocked when the selector lever is moved to the "P" position after the ignition switch is turned to the "ON" position. For details, see "—Automatic door locking and unlocking functions" in Section 1-2.

**(h) Good driving practice**

- If the transmission repeatedly shifts up and down between third gear and overdrive when climbing a gentle slope, the overdrive should be turned off. Be sure to turn the switch on immediately afterward.
- When towing a trailer, in order to maintain engine braking efficiency, do not use overdrive.

 **CAUTION**

Always keep your foot on the brake pedal while stopped with the engine running. This prevents the vehicle from creeping.

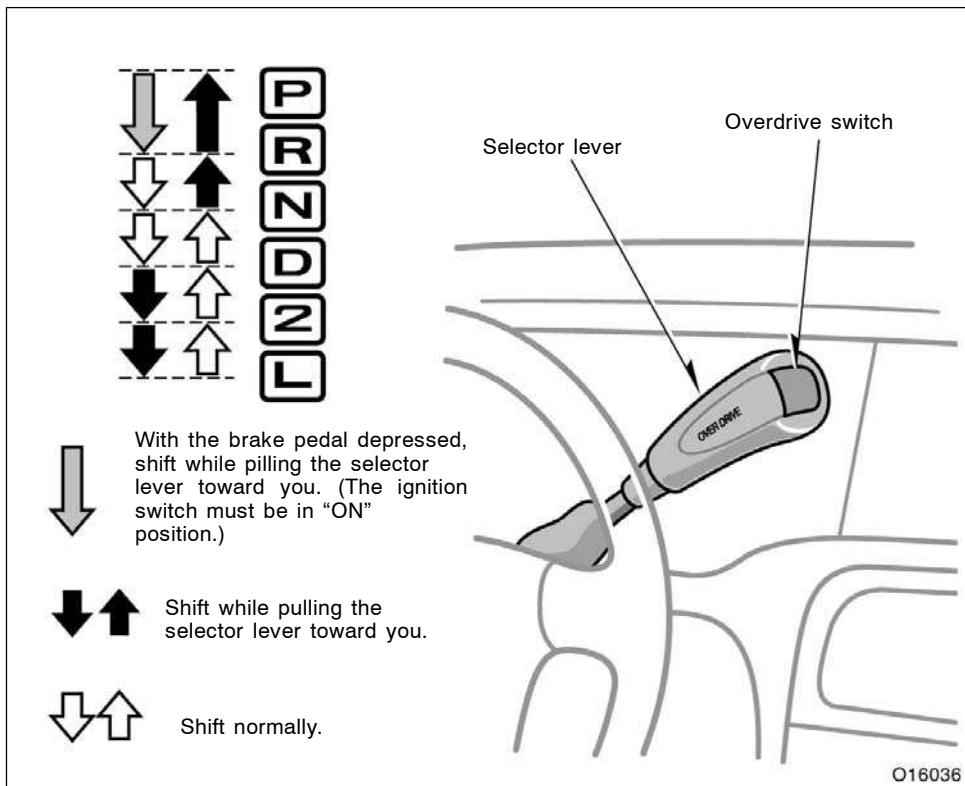
**NOTICE**

*Do not hold the vehicle on an upgrade with the accelerator pedal. It can cause the transmission to overheat. Always use the brake pedal or parking brake.*

**(i) If you cannot shift the selector lever out of "P" position**

If you cannot shift the selector lever from the "P" position even though the brake pedal is depressed, use the shift lock override button. For instructions, see "If you cannot shift automatic transmission selector lever" in Section 4.

## ►Column shift type



Your automatic transmission has a shift lock system to minimize the possibility of incorrect operation. This means you can only shift out of "P" position when the brake pedal is depressed (with the ignition switch in "ON" position and the selector lever pulled toward you).

## (a) Selector lever

The shift position is displayed on the instrument cluster.

**P:** Parking, engine starting and key removal

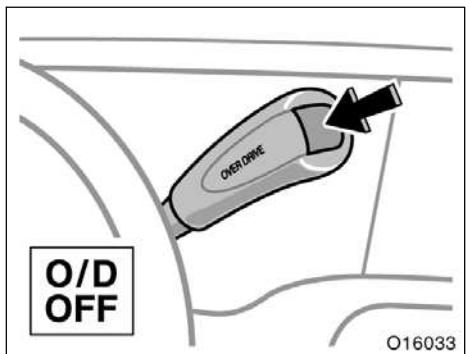
**R:** Reverse

**N:** Neutral

**D:** Normal driving (with overdrive on)

**2:** Stronger engine braking

**L:** Maximum engine braking



### (b) Overdrive switch

You can select either third gear (with overdrive off) or fourth gear (with overdrive on) by pushing this switch.

To turn the overdrive off, push the switch. The "O/D OFF" indicator light should come on. To turn the overdrive on again, push the switch again. The "O/D OFF" indicator light should go off.

Always drive your vehicle with the overdrive on for better fuel economy and quieter driving.

If the engine is turned off when the overdrive is off and restarted, the overdrive will automatically be on.

When the cruise control is being used, even if you downshift the transmission by pushing and releasing the overdrive switch, engine braking will not be enabled because the cruise control is not cancelled.

For ways to decrease the vehicle speed, see "Cruise control" in this section.

### (c) Normal driving

1. Start the engine as instructed in "How to start the engine" in Section 3. The transmission must be in "P" or "N".
2. With your foot holding down the brake pedal, shift the selector lever to "D".

When the lever is in the "D" position, the automatic transmission system will select the most suitable gear for running conditions such as normal cruising, hill climbing, hard towing, etc.

Always turn the overdrive on for better fuel economy and quieter driving. If the engine coolant temperature is low, the transmission will not shift into the overdrive gear even with the overdrive on.

### CAUTION

**Never put your foot on the accelerator pedal while shifting.**

3. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.

If the automatic locking operation linked with the shift position is set, all doors are automatically locked when the selector lever is moved out of the "P" position after the ignition switch is turned to the "ON" position and all the doors are closed. For details, see "—Automatic door locking and unlocking functions" in Section 1-2.

### (d) Using engine braking

To use engine braking, you can downshift the transmission as follows:

- Push the overdrive switch. The "O/D OFF" indicator light will come on and the transmission will downshift to third gear.
- Shift into the "2" position. The transmission will downshift to second gear when the vehicle speed drops down to or lower than 132 km/h (82 mph), and stronger engine braking will be enabled.
- Shift into the "L" position. The transmission will downshift to first gear. When the vehicle speed drops down to or lower than 59 km/h (36 mph), and maximum engine braking will be enabled.

When the cruise control is being used, even if you downshift the transmission by pushing and releasing the overdrive switch, engine braking will not be enabled because the cruise control is not cancelled.

For ways to decrease the vehicle speed, see "Cruise control" in this section.

#### CAUTION

Be careful when downshifting on a slippery surface. Abrupt shifting could cause the vehicle to spin or skid.

#### (e) Using "2" and "L" positions

The "2" and "L" positions are used for strong engine braking as described previously.

With the selector lever in "2" or "L", you can start the vehicle in motion as with the lever in "D".

With the selector lever in "2", the vehicle will start in first gear and automatically shift to second gear.

With the selector lever in "L", the transmission is engaged in first gear.

#### **NOTICE**

◆ *Be careful not to overrev the engine. Watch the tachometer to keep engine rpm from going into the red zone. The approximate maximum allowable speed for each position is given below for your reference:*

*"2" ..... 139 km/h (86 mph)  
"L" ..... 76 km/h (47 mph)*

◆ *Do not continue hill climbing or hard towing for a long time in the "2" or "L" position. This may cause severe automatic transmission damage from overheating. To prevent such damage, "D" position should be used in hill climbing or hard towing.*

#### (f) Backing up

1. Bring the vehicle to a complete stop.
2. With the brake pedal held down with your foot, shift the selector lever to the "R" position.

#### **NOTICE**

*Never shift into reverse while the vehicle is moving.*

#### (g) Parking

1. Bring the vehicle to a complete stop.
2. With the brake pedal pressed down, fully depress the parking brake pedal to apply the parking brake securely.
3. With the brake pedal pressed down, shift the selector lever to the "P" position.

#### CAUTION

Never attempt to move the selector lever into "P" position under any circumstances while the vehicle is moving. Serious mechanical damage and loss of vehicle control may result.

If the automatic unlocking operation linked with the shift position is set, all doors are automatically unlocked when the selector lever is moved to the "P" position after the ignition switch is turned to the "ON" position. For details, see "—Automatic door locking and unlocking functions" in Section 1-2.

**(h) Good driving practice**

- If the transmission repeatedly shifts up and down between third gear and overdrive when climbing a gentle slope, the overdrive should be turned off. Be sure to turn the switch on immediately afterward.
- When towing a trailer, in order to maintain engine braking efficiency, do not use overdrive.

 **CAUTION**

Always keep your foot on the brake pedal while stopped with the engine running. This prevents the vehicle from creeping.

**NOTICE**

*Do not hold the vehicle on an upgrade with the accelerator pedal. It can cause the transmission to overheat. Always use the brake pedal or parking brake.*

**(i) If you cannot shift the selector lever out of "P" position**

If you cannot shift the selector lever from the "P" position even though the brake pedal is depressed, use the shift lock override button. For instructions, see "If you cannot shift automatic transmission selector lever" in Section 4.

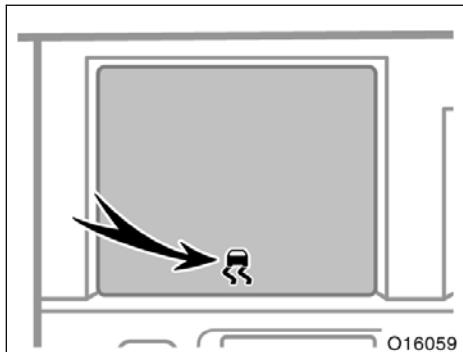
**Traction control system**

The traction control system automatically helps prevent the spinning of front wheels when the vehicle is started or accelerated on slippery road surfaces.

When the ignition key is turned to "ON", the system automatically turns on.

 **CAUTION**

Under certain slippery road conditions, full traction of the vehicle and power against front wheels cannot be maintained, even though the traction control system is in operation. Do not drive the vehicle under any speed or maneuvering conditions which may cause the vehicle to lose traction control. In situations where the road surface is covered with ice or snow, your vehicle should be fitted with snow tires or tire chains. Always drive at an appropriate and cautious speed for the present road conditions.



#### NORMAL DRIVING MODE

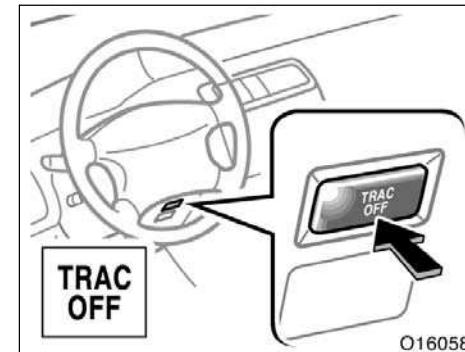
Leave the system on during the ordinary driving so that it can operate when needed.

You may hear a sound in the engine compartment for a few seconds when the engine is started or just after the vehicle is started. This means that the traction control system is in the self-check mode, but does not indicate a malfunction.

When the traction control system is operating, the following conditions occur:

- The system controls the spinning of the front wheels. At this time, the slip indicator light blinks.
- You may feel vibration or noise in your vehicle, caused by operation of the brakes. This indicates the system is functioning properly.

The slip indicator light comes on for a few seconds when the ignition key is turned to "ON". If the indicator light does not come on when the ignition is turned on, contact your Toyota dealer.



#### TRACTION CONTROL OFF MODE

When getting the vehicle out of mud or new fallen snow, etc., turn off the traction control system. This system that controls engine performance interferes with the process of freeing front wheels.

**To turn off:** Push "TRAC OFF" switch.

The "TRAC OFF" indicator light will come on.

The vehicle skid control system is always activated, even if the traction control system is turned off.

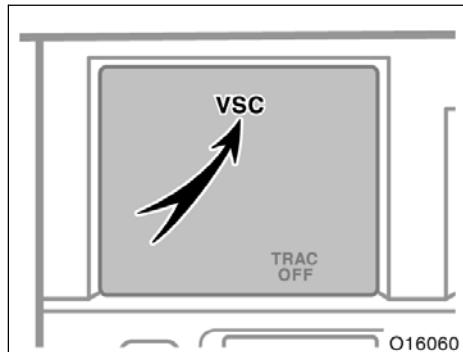
**To turn on:** Push "TRAC OFF" switch once again.

The "TRAC OFF" indicator light will go off.

"TRAC OFF" indicator light comes on for a few seconds when the ignition key is turned to "ON". It will come on again when you push the "TRAC OFF" switch to turn off the system.

In the following cases, contact your Toyota dealer:

- The indicator light does not come on when the ignition key is turned "ON".
- The indicator light remains on after the ignition is turned on.
- The indicator light comes on with the normal driving mode while driving.



In the following cases, contact your Toyota dealer:

- The warning light does not come on after the ignition key is turned to "ON".
- The warning light remains on after the ignition key is turned to "ON".
- The warning light comes on while driving.

The "TRAC OFF" indicator light will come on when the "VSC" warning light comes on even if the "TRAC OFF" switch is not pushed.

#### "VSC" warning light

This light warns that there is a problem somewhere in the traction control system or the vehicle skid control system.

The light will come on when the ignition key is turned to "ON" and will go off after a few seconds.

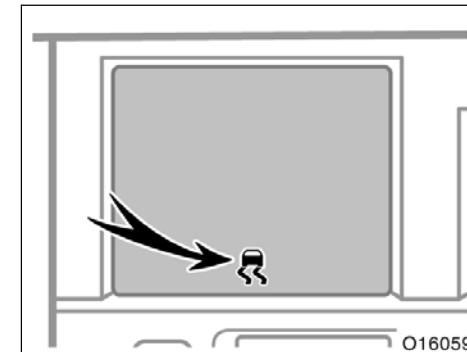
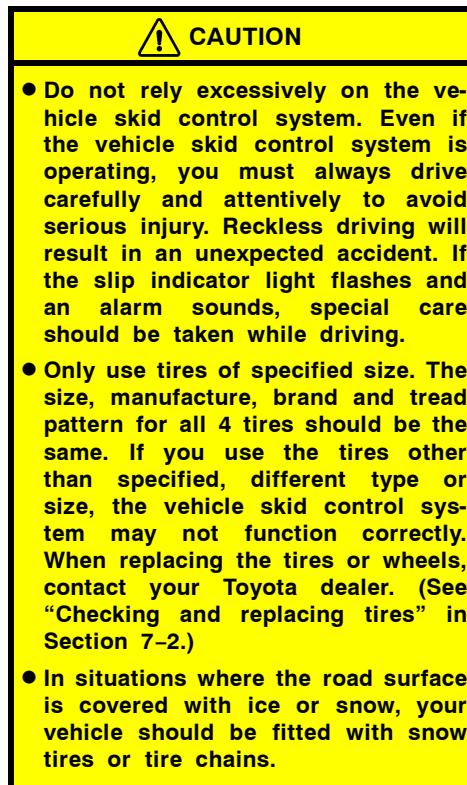
If the light comes on while driving, the system does not work. However, as conventional braking operates when applied, there is no problem to continue your driving.

### Vehicle skid control system

The vehicle skid control system helps provide integrated control of the systems such as anti-lock brake system, traction control, engine control, etc. This system automatically controls the brakes and engine to help prevent the vehicle from skidding when cornering on a slippery road surface or operating steering wheel abruptly.

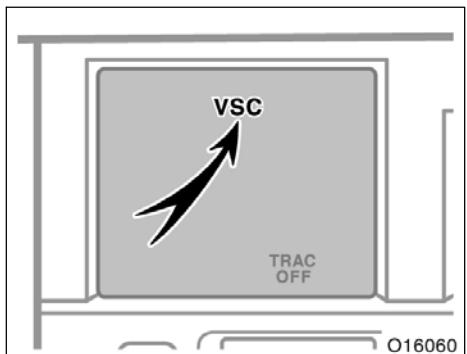
This system will activate when your vehicle speed reaches or exceeds 15 km/h (9 mph), and will deactivate when the vehicle speed reduced to below 15 km/h (9 mph).

You may hear a sound in the engine compartment for a few seconds when the engine is started or just after the vehicle is started. This means that the system is in the self-check mode but does not indicate a malfunction.



If the vehicle is going to skid during driving, the slip indicator light blinks and an alarm sounds intermittently. Special care should be taken while driving.

The slip indicator light comes on for a few seconds when the ignition key is turned to "ON". If the indicator light does not come on when the ignition is turned on, contact your Toyota dealer.



#### "VSC" warning light

This light warns that there is a problem somewhere in the vehicle skid control system or the traction control system.

The light will come on when the ignition key is turned to "ON" and will go off after a few seconds.

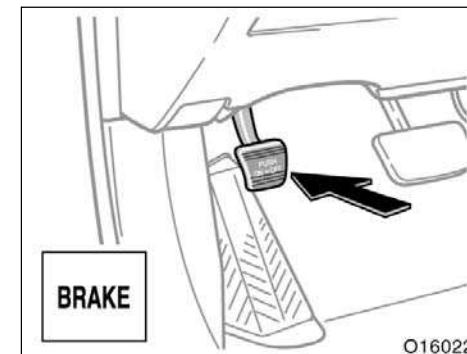
If the light comes on while driving, the system does not work. However, as conventional braking operates when applied, there is no problem to continue your driving.

In the following cases, contact your Toyota dealer:

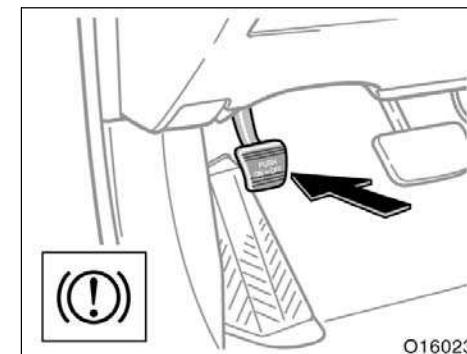
- The warning light does not come on after the ignition key is turned to "ON".
- The warning light remains on after the ignition key is turned to "ON".
- The warning light comes on while driving.

The "TRAC OFF" indicator light will come on when the "VSC" warning light comes on even if the "TRAC OFF" switch is not pushed.

#### Parking brake



Type A



Type B

**When parking, firmly apply the parking brake to avoid inadvertent creeping.**

To set: Fully depress the parking brake pedal. For better holding power, first depress the brake pedal and hold it while setting the parking brake.

To release: Depress the parking brake pedal while depressing the brake pedal.

To remind you that the parking brake is set, the parking brake reminder light in the instrument panel remains on until you release the parking brake.

 **CAUTION**

**Before driving, be sure the parking brake is fully released and the parking brake reminder light is off.**

### **Cruise control**

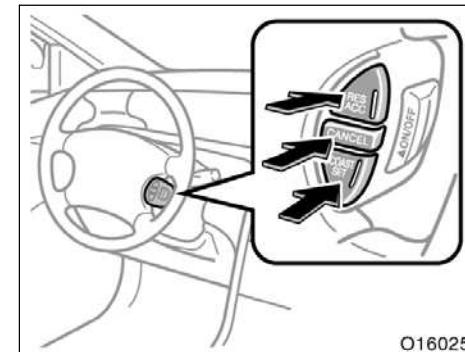
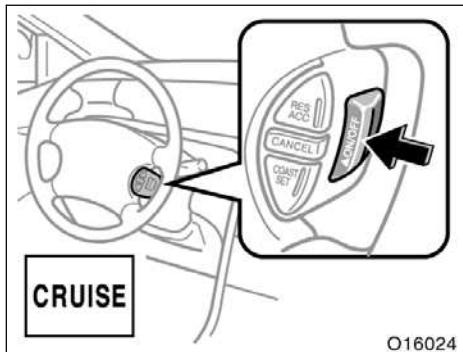
**The cruise control allows you to cruise the vehicle at a desired speed over 40 km/h (25 mph) with your foot off the accelerator pedal.**

Your cruising speed can be maintained although a slight speed change may occur when driving up or down gradient, within the limits of engine performance. On steeper hills, a greater speed change will occur so it is better to drive without the cruise control.

When the cruise control is on, the driving pattern of the automatic transmission is fixed in the normal position, regardless of the position of the selector switch.

 **CAUTION**

- To help maintain maximum control of your vehicle, do not use the cruise control when driving in heavy or varying traffic, or on slippery (rainy, icy or snow-covered) or winding roads.
- Avoid vehicle speed increases when driving downhill. If the vehicle speed is too fast in relation to the cruise control set speed, cancel the cruise control then downshift the transmission to use engine braking to slow down.



#### TURNING ON THE SYSTEM

To operate the cruise control, push "ON/OFF" button. This turns the system on. The indicator light in the instrument cluster shows that you can now set your desired cruising speed. Another push will turn the system completely off.

When the ignition key is turned off, the system automatically turned off. To use the cruise control again, push "ON/OFF" button again to turn it on.

#### SETTING AT A DESIRED SPEED

The transmission must be in "D" before you set the cruise control speed.

Bring your vehicle to the desired speed, push "COAST SET" button and release it. This sets the vehicle at that speed. If the speed is not satisfactory, push "RES ACC" button for a faster speed, or push "SET COAST" button for a slower speed. Each push changes the set speed by 1.6 km/h (1.0 mph). You can now take your foot off the accelerator pedal.

If you need acceleration—for example, when passing—depress the accelerator pedal enough for the vehicle to exceed the set speed. When you release it, the vehicle will return to the speed set prior to the acceleration.

#### **CANCELLING THE PRESET SPEED**

You can cancel the preset speed by:

- a. Depressing the brake pedal.
- b. Pushing "CANCEL" button and releasing it.
- c. Pushing "ON/OFF" button.

If the vehicle speed falls below about 40 km/h (25 mph), the preset speed will be automatically cancelled.

If the vehicle speed drops 16 km/h (10 mph) below the preset speed, the preset speed will be also automatically cancelled.

If the preset speed automatically cancels out for any other reasons, have your vehicle checked by your Toyota dealer at the earliest opportunity.

#### **RESETTING TO A FASTER SPEED**

Push "RES ACC" button and hold it. Release the button the desired speed is attained. While the button is pushed, the vehicle will gradually gain speed.

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be increased 1.6 km/h (1 mph) each time by pushing "RES ACC" button quickly within 0.6 seconds.

However, a faster way to reset is to accelerate the vehicle and then push "COAST SET" button.

#### **RESETTING TO A SLOWER SPEED**

Push "COAST SET" button and hold it. Release the button when the desired speed is attained. While the button is pushed, the vehicle speed will gradually decrease.

When the difference is 5 km/h (3 mph) or more, the vehicle will cruise with its actual speed. When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be lowered 1.6 km/h (1 mph) each time by pushing "COAST SET" button quickly within 0.6 seconds.

However, a faster way to reset is to depress the brake pedal and then push "COAST SET" button.

Even if you turn off the overdrive switch with the cruise control on, engine braking will not be applied because the cruise control is not cancelled. To decrease the vehicle speed, reset to a slower speed with the cruise control button or depress the brake pedal. If you use the brake pedal, cruise control is cancelled.

#### **RESUMING THE PRESET SPEED**

If the preset speed is cancelled by pushing "CANCEL" button or by depressing the brake pedal, pushing "RES ACC" button will restore the speed set prior to cancellation. However, once the vehicle speed falls below about 40 km/h (25 mph), the preset speed will not be resumed.

#### **CRUISE CONTROL FAILURE WARNING**

If "CRUISE" indicator light in the instrument cluster flashes when using the cruise control, push "ON/OFF" button to turn the system off and then push it again to turn it on.

If any of the following conditions then occurs, there is some trouble in the cruise control system.

## **'03 AVALON U (L/O 0206)**

- The indicator light does not come on.
- The indicator light flashes again.
- The indicator light goes out after it comes on.

If this is the case, contact your Toyota dealer and have your vehicle inspected.

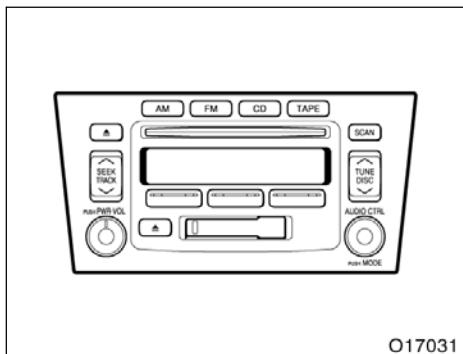
## ***SECTION 1 – 7***

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

#### **Car audio system**

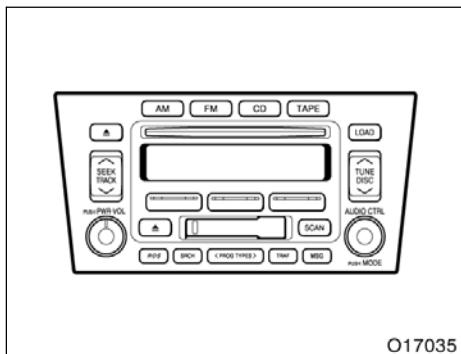
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**Reference**



O17031

**Type 1: AM-FM ETR radio/cassette player/compact disc player (with compact disc auto changer controller)**



O17035

**Type 2: AM-FM ETR radio/cassette player/compact disc auto changer**

**Using your audio system—  
—Some basics**

This section describes some of the basic features on Toyota audio systems. Some information may not pertain to your system.

Your audio system works when the ignition key is in the "ACC" or "ON" position.

**TURNING THE SYSTEM ON AND OFF**

Push "PWR·VOL" to turn the audio system on and off.

Push "AM", "FM", "TAPE" or "CD" to turn on that function without pushing "PWR·VOL".

You can turn on each player by inserting a cassette tape or compact disc.

You can turn off each player by ejecting the cassette tape or compact disc. If the audio system was previously off, then the entire audio system will be turned off when you eject the cassette tape or compact disc. If the another function was previously playing, it will come on again.

**SWITCHING BETWEEN FUNCTIONS**

Push "AM", "FM", "TAPE" or "CD" if the system is already on but you want to switch from one function to another.

#### **TONE AND BALANCE**

For details about your system's tone and balance controls, see the description of your own system.

##### **Tone**

How good an audio program sounds to you is largely determined by the mix of the treble, midrange, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, midrange and bass.

##### **Balance**

A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

Keep in mind that if you are listening to a stereo recording or broadcast, changing the right/left balance will increase the volume of one group of sounds while decreasing the volume of another.

#### **YOUR RADIO ANTENNA**

Your vehicle has an antenna printed on the inside of the rear window.

##### **NOTICE**

*Attaching the film (especially conductive or metallic type) on the rear window will noticeably reduce the sensitivity of the radio.*

#### **YOUR CASSETTE PLAYER**

When you insert a cassette, the exposed tape should face to the right.

##### **NOTICE**

*Do not oil any part of the player and do not insert anything other than cassette tapes into the slot, or the tape player may be damaged.*

#### **YOUR COMPACT DISC PLAYER (type 1)**

When you insert a disc, gently push it in with the label side up. (The player will automatically eject a disc if the label side is down.) The compact disc player will play from track 1 through the end of the disc. Then it will play from track 1 again.

##### **NOTICE**

*Never try to disassemble or oil any part of the compact disc player. Do not insert anything except a compact disc into the slot.*

The player is intended for use with 12 cm (4.7 in.) discs only.

**YOUR COMPACT DISC AUTO CHANGER  
(type 2)**

When you insert a disc, push the "LOAD" button and gently push the disc in with the label side up. (The player will automatically eject a disc if the label side is down.) The compact disc auto changer will play from track 1 through the end of the disc. Then it will play from track 1 of the next disc.

The changer is intended for use with 12 cm (4.7 in.) discs only.

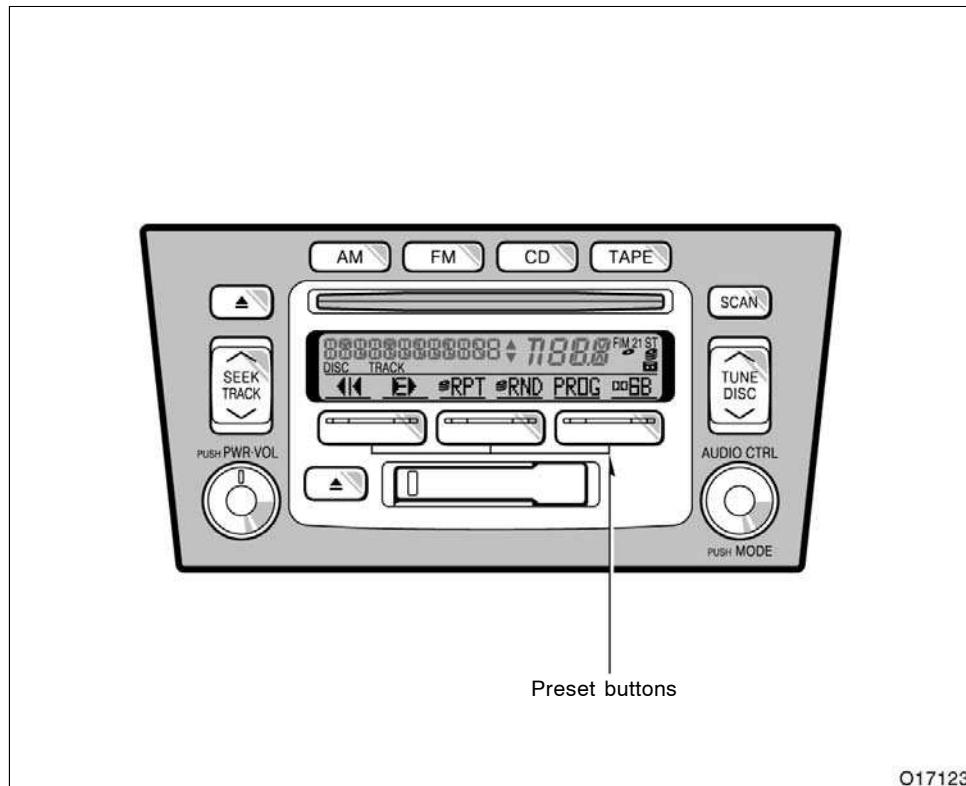


**NOTICE**

- ◆ *Do not stack up two discs for insertion, or it will cause damage to the compact disc auto changer. Insert only one compact disc into slot at a time.*
- ◆ *Never try to disassemble or oil any part of the compact disc player. Do not insert anything except a compact disc into the slot.*

—Controls and features

►Type 1



Details of specific buttons, controls, and features are described in the alphabetical listing that follows.

#### **Preset buttons**

These buttons are used to preset and tune in radio stations.

To preset a station to a button: Tune in the desired station. (See "TUNE" or "SEEK" button.) Push and hold down the button until you hear a beep—this will set the station to the button. The button number will appear on the display.

To tune in to a preset station: Push the button for the station you want. The button number and station frequency will appear on the display.

These systems can store one AM and two FM stations for each button. (The display will show "AM", "FM1" or "FM2" when you push "AM" "FM".)

#### **▲ (Eject button)**

Push the cassette tape eject button to eject a cassette. Push the compact disc eject button to eject a compact disc.

After you turn the ignition to "LOCK", you will be able to eject a cassette or disc, but you will not be able to reinsert it.

#### **◀ / ▶ (Reverse/Fast forward button)**

##### **Cassette Player**

Push the fast forward button to fast forward a cassette tape. "▶" will appear on the display. Push the reverse button to rewind a tape. "◀" will appear on the display.

To stop the tape while it is fast forward, push the fast forward button or "TAPE"; to stop the tape while it is rewinding, push the reverse button or "TAPE".

If a tape side rewinds completely, the cassette player will stop and then play that same side. If a tape fast forwards completely, the cassette player will play the other side of the tape, using the auto-reverse feature.

##### **Compact Disc Player**

If you want to fast forward or reverse through a compact disc track, push and hold in the fast forward or reverse button. When you release the button, the compact disc player will resume playing.

#### **AM**

Push "AM" to turn on the radio and select the AM band. "AM" will appear on the display.

If the audio system is off, you can turn on the radio by pushing "AM". Also, push "AM" to switch from cassette or compact disc operation to radio operation.

#### **AUDIO CTRL / MODE (Audio control and mode adjustment)**

##### **Manual tone adjustment function—**

This knob is used to adjust the tone manually.

For low-pitch tone adjustment, push "AUDIO CTRL / MODE" repeatedly until "BASS" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "BASS -5" to "BASS 5".

For middle-pitch tone adjustment, push "AUDIO CTRL / MODE" repeatedly until "MID" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "MID -5" to "MID 5".

For high-pitch tone adjustment, push "AUDIO CTRL / MODE" repeatedly until "TREB" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "TREB -5" to "TREB 5".

#### **Sound balance adjustment function—**

This knob is also used to adjust the sound balance between the front and rear, and the right and left speakers.

For front/rear adjustment, push "AUDIO CTRL / MODE" repeatedly until "FADE" appears on the display. Then turn the knob to adjust the front/rear balance.

The display will show the range from "FADE FRONT 7" to "FADE REAR 7".

For left/right adjustment, push "AUDIO CTRL / MODE" repeatedly until "BAL" appears on the display. Then turn the knob to adjust the left/right balance.

The display will show the range from "BAL LEFT 7" to "BAL RIGHT 7".

#### **CD (Compact Disc)**

Push "CD" to switch from radio or cassette operation to compact disc operation. If the audio system is off, you can turn on the compact disc player by pushing "CD". In both cases, a disc must already be loaded in the player.

When the audio is set into compact disc operation, the display shows the track or, track and disc number currently being played. Each time you push "CD", the system changes to the automatic changer.

If the player malfunctions, your audio system will display one of the six following error messages.

**If "WAIT" appears on the display,** it indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the disc or magazine from the player and allow the player to cool down.

**If "Err 1" appears on the display,** it indicates the disc is dirty, damaged, or it was inserted up-side down. Clean the disc or insert it correctly.

**If "Err 2" appears on the display,** it indicates no disc is loaded inside the magazine. Insert a disc.

**If "Err 3" or "Err 4" appears on the display,** it indicates there is a trouble inside the system. Eject the disc or magazine. Set the disc or magazine again.

**If "OPEn" appears on the display,** it indicates the compact disc auto changer lid is open. Close the compact disc auto changer lid.

**If the malfunction is not rectified,** take your vehicle to your Toyota dealer.

#### **DISC**

Compact disc auto changer only—

By using this button, you can select a disc you wish to listen to.

Push either side of the button until the number of the disc you want to listen to appears on the display.

**Dolby®  B NR\***

If you are listening to a tape that was recorded with Dolby® B Noise Reduction, push the button marked with the double-D symbol. The double-D symbol will appear on the display. Push the button again to turn off Dolby® B NR.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with this button on or off according to the mode used for recording the tape.

\*: Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

**FM**

Push "FM" to turn on the radio and select the FM band. "FM1" or "FM2" will appear on the display. This system allows you to set twelve FM stations, two for each button.

If the audio system is off, you can turn on the radio by pushing "FM". Also, push "FM" to switch from cassette or compact disc operation to radio operation.

**PROG (Program)**

Push "PROG" to select the other side of a cassette tape. The display indicates which side is currently selected ("▲" indicates top side, "▼" indicates bottom side).

Auto-reverse feature: After the cassette player reaches the end of a tape side, it automatically reverses and begins to play the other side. This is true whether the cassette was playing or fast forwarding.

**PWR·VOL (Power and Volume)**

Push "PWR·VOL" to turn the audio system on and off. Turn "PWR·VOL" to adjust the volume.

**RND (Random)**

There are two random features—you can either listen to the tracks on all the compact discs in the magazine in random order, or only listen to the tracks on a specific compact disc in random order.

To randomly play the tracks on a disc: Quickly push and release "RND". "RND" will appear on the display. The disc you are listening to will play in random order. If you hear a beep, you held the button too long, and the player will play all the tracks in the magazine in random order. To turn off the random feature, push this button again.

Compact disc auto changer only—

To randomly play all the tracks in the magazine:

Push and hold "RND" until you hear a beep. "RND" will appear on the display and the player will perform all the tracks on all the discs in the magazine in random order. To turn off the random feature, push this button again.

**RPT (Repeat)**

**Cassette Player**

Push "RPT" while the track is playing. "RPT" will appear on the display. When the track ends, it will automatically be rewound and replayed. This process will be continued until you push the button again to turn off the repeat feature.

There must be at least 3 seconds of blank space between tracks in order for the repeat feature to work correctly.

**Compact Disc Player**

There are two repeat features—You can either replay a disc track or a whole compact disc.

Repeating a track:

Quickly push and release “RPT” while the track is playing. “RPT” will appear on the display. If you hear a beep, you held the button too long, and the player will repeat the whole disc. When the track ends, it will automatically be replayed. This process will be continued until you push the button again to turn off the repeat feature.

Compact disc auto changer only—

Repeating a disc:

Push and hold “RPT” until you hear a beep. “~~RPT~~” will appear on the display. The player will repeat all the tracks on the disc you are listening to. When the disc ends, the player will automatically go back to the top track of the disc and replay. This process will be continued until you push the button again to turn off the repeat feature.

**SCAN**

**Radio**

You can either scan all the frequencies on a band or scan only the preset stations for that band.

To scan the preset stations:

Push and hold “SCAN” until you hear a beep. The radio will tune in the next preset station up the band, stay there for 5 seconds, and then move to the next preset station. To select a station, push “SCAN” again.

To scan all the frequencies:

Quickly push and release “SCAN”. If you hear a beep, you held the button too long, and the radio will scan the preset stations. The radio will find the next station up the station band, stay there for 5 seconds, and then scan again. To select a station, push “SCAN” again.

**Compact disc player**

There are two scan features—you can either scan the tracks on a specific disc or scan the first tracks of all the discs in the magazine.

Scanning the tracks on a disc:

Quickly push and release “SCAN”. “SCAN” will appear on the display and the player will scan all the tracks on the disc you are listening to. If you hear a beep, you held the button too long, and the player will scan the first track of all the discs in the magazine. To select a track, push “SCAN” again. If the player scanned all the tracks on the disc, it will stop scanning.

Compact disc auto changer only—

Scanning the first track of all the discs in the magazine:

Push “SCAN” until you hear a beep. “ SCAN” will appear on the display and the player will perform the first track of the next disc. To select a disc, push the “SCAN” again. If the player has scanned all the discs, it will stop scanning.

**SEEK (Seeking)****Radio**

In the seek mode, the radio finds and plays the next station up or down the station band.

To seek the next station, quickly push and release the “ $\wedge$ ” or “ $\vee$ ” side of “SEEK”. Do this again to find the station after that.

If you push and hold the “ $\wedge$ ” or “ $\vee$ ” side of “SEEK”, the radio will continue seeking up or down for stations and will stop at the next station that it finds after the button is released. on reception. Press the button again to resume the search.

**Cassette Player**

By using this button, you can skip up or down to a different track.

You can skip up to nine tracks at a time.

Push the up or down side of the button. From “SEEK +9” to “SEEK -9” will appear on the display.

Next, push either side of the track button until the number on the display reaches the number of tracks you want to skip. If you push the button ten times, the skip feature will be turned off.

When counting the number of tracks you want to rewind, remember to count the current track as well. For example, if you want to rewind to a song that is two before the song you are listening to, push on the down side of the button until “REW 3” appears on the display.

If you have pushed the track button more than you wanted to, push the other side of the button. The track number will be reduced.

The track number you select is not valid if it is higher than the number of tracks remaining on the current cassette side.

- After the beginning of the tape is reached, the player will automatically start playing the same side.
- After the end of the tape is reached, the player will automatically reverse sides and start playing the other side.

There must be at least 3 seconds of blank space between tracks for the track button to work correctly. In addition, the feature may not work well with some spoken word, live, or classical recordings.

**ST (Stereo reception) display**

Your radio automatically changes to stereo reception when a stereo broadcast is received. “ST” appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception.

**TAPE**

Push “TAPE” to switch from radio or compact disc operation to cassette operation. If the audio system is off, you can turn on the cassette player by pushing “TAPE”. In both cases, a cassette must already be loaded in the player.

**TRACK (Track up/down button):  
Compact disc player**

By using this button, you can skip up or down to a different track.

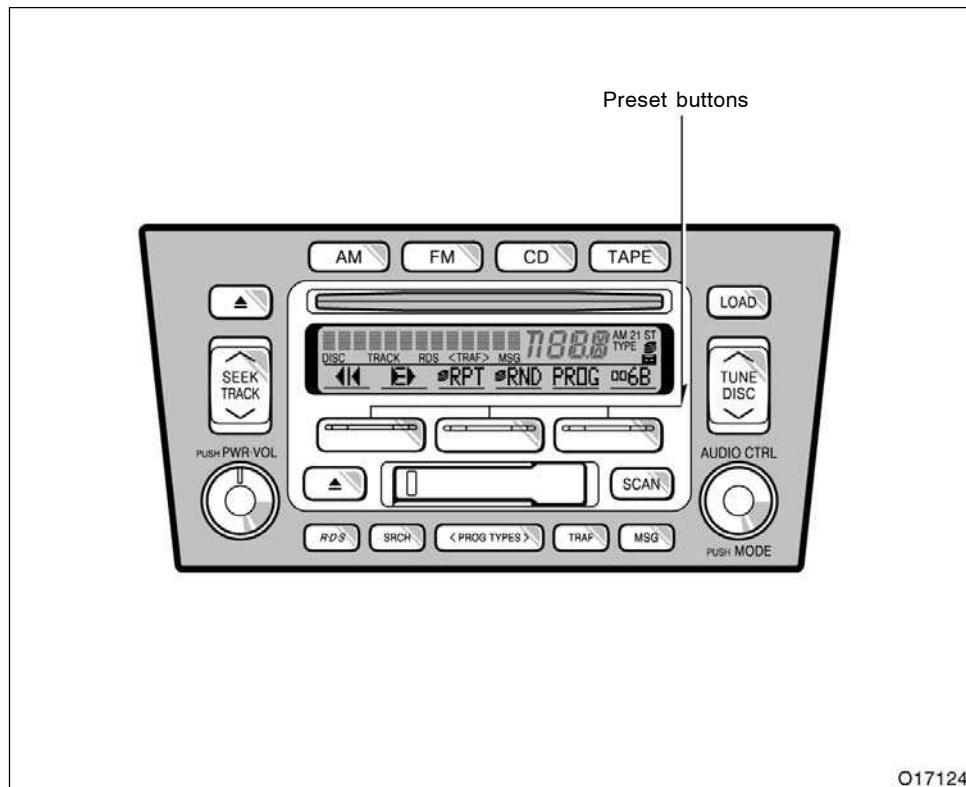
Push either side of the track button until the number of the track you want to listen to appears on the display. If you want to return to the beginning of the current track, push the down side of the button one time, quickly.

**TUNE (Tuning)**

Your Toyota has an electronic tuning radio (ETR). Push and release the “ $\wedge$ ” or “ $\vee$ ” side of “TUNE” to step up or down the station band. Do this again to find another frequency.

If you push and hold the “ $\wedge$ ” or “ $\vee$ ” side of “TUNE”, the radio will continue seeking up or down for frequencies and will stop at the next frequency that it finds after the button is released. Press the button again to resume the search.

►Type 2



Details of specific buttons, controls, and features are described in the alphabetical listing that follows.

**Preset buttons**

These buttons are used to preset and tune in radio stations. These preset buttons are programmable only when RDS is not selected.

To preset a station to a button: Tune in the desired station. (See "TUNE" or "SEEK" button.) Push and hold down the button until you hear a beep—this will set the station to the button. The preset button number will appear on the display.

To tune in to a preset station: Push the button for the station you want. The preset button number and station frequency will appear on the display.

This radio can store one AM and two FM stations for each button. (The display will show "AM", "FM1" or "FM2" when you push "AM" "FM".)

**▲ (Eject button)****Cassette tape**

This button is used to eject a cassette.

While the ignition is in "LOCK", you can eject a cassette but you cannot reinsert it.

**Compact disc**

This button is used to eject one or all compact discs. To eject the current compact disc, push and release the compact disc eject button. To eject all specific discs, push either side of the "DISC" button until the number of the disc you want to eject is displayed. Push and release the eject button. To eject all discs, press and hold the eject button until you hear a beep. The last compact disc played before pushing the button will be ejected first. If the ejected disc is not removed for a long time, the eject function will be cancelled.

While the ignition is in "LOCK", you can eject one or all discs but you cannot reinsert them.

**◀ / ▶ (Reverse/Fast-forward button)****Cassette Player**

Push the fast-forward button to fast-forward a cassette tape. "▶" will appear on the display. Push the reverse button to rewind a tape. "◀" will appear on the display.

To stop the tape while it is fast-forwarding, push the fast-forward button or "TAPE"; to stop the tape while it is rewinding, push the reverse button or "TAPE".

If a tape rewinds completely, the cassette player will stop and then play that same side. If a tape fast-forwards completely, the cassette will play the other side of the tape using the auto-reverse feature.

**Compact Disc Player**

If you want to fast-forward or reverse a compact disc track, push and hold the fast-forward or reverse button. When you release the button, the compact disc player will resume playing.

**AM**

Push "AM" to turn on the radio and select the AM band. "AM" will appear on the display.

If the audio system is off, you can turn on the radio by pushing "AM". Also, push "AM" to switch from cassette or compact disc operation to AM.

**AUDIO CTRL / MODE (Audio control and mode adjustment)**

Each time you push the AUDIO CONTROL knob, the mode changes. To adjust the tone and balance, turn the knob.

**BASS:** Adjusts low-pitched tones. The display ranges from -5 to 5.

**MID:** Adjusts mid-pitched tones. The display ranges from -5 to 5.

**TREBLE:** Adjusts high-pitched tones. The display ranges from -5 to 5.

**BALANCE:** Adjusts the sound balance between the right and left speakers. The display ranges from -7 to 7.

**FADER:** Adjusts the sound balance between the front and rear speakers. The display ranges from -7 to 7.

**CD (Compact Disc)**

Push "CD" while in radio or cassette mode to switch to compact disc mode. If the audio system is off, pressing "CD" will turn on the compact disc player. A disc must be loaded in the player.

When the audio is set into compact disc operation, the display shows the track or, track and disc number currently being played.

If the player or another unit equipped with the player malfunctions, your audio system will display one of the six following error messages.

**Error codes**

**"WAIT":** The compact disc player unit may be too hot due to temperature. Allow the player to cool down.

**"ERR 1":** The disc may be dirty, damaged or inserted incorrectly (up-side down). Clean disc and re-insert.

**"ERR 2":** The compact disc player is empty. Load disc and re-try.

**"ERR 3" or "ERR 4":** This indicates internal error. Re-load discs.

**"OPEN":** The compact disc auto changer lid is open. Close the compact disc auto changer lid.

**If the malfunction still exists,** take your vehicle to your Toyota dealer.

**DISC**

By using this button, you can select a disc you wish to listen to.

Push either side of the button until the number of the disc you want to listen appears on the display.

**Dolby®  B NR\***

If you are listening to a tape that was recorded with Dolby® B Noise Reduction, push the button marked with the double-D symbol. The double-D symbol will appear on the display. Push the button again to turn off Dolby® B NR.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with this button on or off according to the mode used for recording the tape.

\*: Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

**FM**

Push "FM" to turn on the radio to FM band. "FM1" or "FM2" will appear on the display. This system allows you to set twelve FM stations, two for each of the six preset button.

If the audio system is off, you can turn on the radio by pushing "FM". Also, push "FM" to switch from cassette or compact disc operation to FM.

**LOAD**

This button is used to load the compact discs in the compact disc auto changer which is integrated with the radio and cassette player. This compact disc auto changer can store up to 6 discs.

The key must be in the "ACC" or "ON" position for the load function.

Loading one compact disc only—

To load one compact disc only, quickly push and release the button. If you hold the button too long (if the audio system is on at this time, you hear a beep.), the mechanism will change to the mode for loading multiple compact discs. After pushing the button, insert a compact disc. After the disc is loaded, the shutter of the slot will close.

If no compact disc is inserted, the shutter will close after 15 seconds.

Loading multiple compact discs—

To load multiple compact discs, push and hold the button (until you hear a beep when the audio system is on). After pushing the button, insert the first compact disc. After the disc is loaded, the shutter of the slot will close. After a few seconds, the shutter will automatically open again so the next disc can be inserted. The same process can be applied for loading the rest of the discs.

If no compact disc is inserted, the shutter will close after 15 seconds.

**MSG (Message)**

This button is operational only in RDS mode.

When an RDS radio station transmits a text message, "MSG" will be displayed. At this time, push "MSG" button to view the text message. The message display will be canceled if any button that affects the display is pushed. To view the message again, push the "MSG" button again. After the entire message has been displayed, the message will disappear.

The RDS audio system has memory to store three 64 character messages. To store a message in memory, push and hold the "MSG" button until you hear a beep.

If 3 messages are already stored in memory, the oldest message will be overwritten by the new message.

To recall a radio text message, push the "MSG" button momentarily. This will display the most recent message. A second push of the "MSG" button while the most stored message(s) are displayed begins with the newest one.

If no messages have been stored, or if there are no more messages to be recalled, "NO MSG STORED" will appear on the display, and the message display will be canceled. The display then returns to show the program service name. The message display will be canceled if you activate any function that affects the display.

Message display can be canceled by pressing any of the following buttons: "AM", "FM", "CD", "TAPE", "LOAD", "SEEK", "TUNE", any preset, "SCAN", any audio control, "RDS", "SRCH", or "<PROG TYPES>". If the current station is not a traffic program and traffic announcements is off, pushing "TRAF" will cancel the display. The message will be canceled after the entire message has been displayed.

#### **PROG (Program)**

The "PROG" button switches the side of the cassette being played. The display indicates which side is currently selected ("↑" indicates top side, "↓" indicates bottom side).

Auto-reverse feature: After the cassette reaches the end of a tape, it automatically reverses and begins to play the other side. This feature works both in play and fast-forward mode.

#### **<PROG TYPES> (Program Types)**

This button is operational only in RDS mode.

This button is used for program type (PTY) search of RDS stations. 32 program types are available as listed here.

By pushing this button, RDS turns on in FM mode and "RDS" will be displayed. If the program type search is not already performed, the radio will start a program type search (see "SRCH" for details). If a program type search has already been performed, the last active program type will be tuned.

If you are already in FM type mode and a program type is not already being displayed, pushing this button will recall the display for the current program type.

After a program type is being displayed, subsequent pushes of this button within 3 seconds will toggle through the available program types. Pushing the right or left arrows repeatedly will increment or decrement the display through the available program types in alphabetical order.

#### **Program Type List**

The following program type names are available. After a program type search, the radio will display one of the following program types for 3 seconds, then the program type name for 3 seconds (if available). After that, it will display the first 8 characters of the program service name of the current station.

Program types included are

- Adlt Hit (Adult Hits)
- Alert! (Emergency message)
- Classici (Classical)
- Cls Rock (Classic Rock)
- College
- Country
- Inform (Information)
- Jazz
- Language
- News
- Nostalga (Nostalgia)
- Oldies
- Persnlt (Personality)
- Public
- R & B (Rhythm and Blues)
- Rel Musc (Religious Music)

- Rel Talk (Religious Talk)
- Rock
- Soft
- Soft R&B (Soft Rhythm and Blues)
- Soft Rck (Soft Rock)
- Sports
- Talk
- Test (Emergency Test)
- Top 40
- Weather

### **PWR·VOL (Power and Volume)**

Push "PWR·VOL" to turn the audio system on and off. Turn "PWR·VOL" to adjust the volume.

### **RDS (Radio Data System)**

Your audio system is equipped with Radio Data Systems (RDS). RDS mode provides you to receive text messages from radio stations that utilize RDS transmitters.

If the FM radio, cassette player or compact disc player is on, pushing this button will turn RDS on or off.

When RDS is on, the radio can

- select only stations of a particular program type,
- seek to stations with traffic announcements,
- display messages from radio stations,
- search for a stronger signal station,
- receive announcements concerning local and national emergencies (even if RDS function is turned off)

RDS features are available for use only on FM stations which broadcast RDS information.

**ALERT:** This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. Alert announcements will come on even if RDS mode is turned off. "Alert!" appears on the display when an alert announcement plays. The radio uses TA volume during these announcements. When an alert announcement comes on the tuned radio station or a related network station, you will hear it even if the volume is muted or a cassette tape or compact disc is playing. If the radio tunes to a related network station for an alert announcement, it will return to the original station when the announcement is finished. If the cassette tape or compact disc player is playing, play will stop for the announcement and resume when the announcement is finished.

**RND (Random)**

There are two random features—you can either listen to the tracks on all the compact discs in the magazine in random order, or only listen to the tracks on a specific compact disc in random order.

To randomly play the tracks on a disc: Quickly push and release “RND”. “RND” will appear on the display. The disc you are listening to will play in random order. If you hear a beep, the player will play all the tracks in the magazine in random order. To turn off the random feature, push this button again.

To randomly play all the tracks in the magazine:

Push and hold “RND” until you hear a beep. “oRND” will appear on the display and the player will perform all the tracks on all the discs in the magazine in random order. To turn off the random feature, push this button again.

**RPT (Repeat)**

**Cassette Player**

Push “RPT” while the track is playing. “RPT” will appear on the display. When the track ends, it will automatically rewind and replay. To turn off the repeat feature, push this button again.

There must be at least 3 seconds of blank space between tracks in order for the repeat feature to work correctly.

**Compact Disc Player**

There are two repeat features—You can either replay a disc track or a whole compact disc.

Repeating a track:

Quickly push and release “RPT” while the track is playing. “RPT” will appear on the display. If you hear a beep, the player will repeat the whole disc. When the track ends, it will automatically replay. To turn off the repeat feature, push this button again.

Repeating a disc:

Push and hold “RPT” until you hear a beep. “oRPT” will appear on the display. The player will repeat all the tracks on the disc you are listening to. When the disc ends, the player will automatically go back to the top track of the disc and replay. To turn off the repeat feature, push this button again.

**SCAN****Radio**

You can either scan all the frequencies on a band or scan only the preset stations for that band.

To scan the preset stations:

Push and hold "SCAN" until you hear a beep. The radio will tune in the next preset station up the band, stay there for 5 seconds, and then move to the next preset station. To select a station, push "SCAN" again.

To scan all the frequencies:

Quickly push and release "SCAN". The radio will find the next station up the station band, stay there for 5 seconds, and then scan again to the next preset. To select a station, push "SCAN" again. If you hear a beep, the radio will scan the preset stations.

**Compact disc player**

There are two scan features—you can either scan the tracks on a specific disc or scan the first tracks of all the discs in the magazine.

Scanning the tracks on a disc:

Quickly push and release "SCAN". "SCAN" will appear on the display and the player will scan all the tracks on the disc you are listening to. If you hear a beep, the player will scan the first track of all the discs in the magazine. To select a track, push "SCAN" again. If the player scanned all the tracks on the disc, it will stop scanning.

Scanning the first track of all the discs in the magazine:

Push "SCAN" until you hear a beep. "DSCAN" will appear on the display and the player will scan the first track of the next disc. To select a disc, push the "SCAN" again. If the player has scanned all the discs, it will stop scanning.

**SEEK (Seeking)****Radio**

In the seek mode, the radio finds and plays the next station up or down the station band.

To seek the next station, quickly push and release the "▲" or "▼" side of "SEEK". Do this again to find the station after that.

If you push and hold the "▲" or "▼" side of "SEEK", the radio will continue seeking up or down for stations and will stop at the next station that it finds after the button is released. Press the button again to resume the search.

**Cassette Player**

By using this button you can skip up or down to locate a song or recording.

You can select up to 9 recordings (including current one).

A blank space of at least 3 seconds is considered to be a start of a recording.

When a beginning of a tape is reached, the player automatically resumes play.

When the end of the tape is reached, the player automatically reverses sides and resumes normal play.

In addition, the feature may not work well with some spoken word, live, or classical recordings.

**SRCH (Search)**

This feature is available only in RDS mode.

This button allows you to search all available RDS stations out of the entire FM band and sort them by program type (see "<PROG TYPES>" for details on program types).

By pushing this button, RDS is turned on if it was off ("RDS" will display). The radio is switched to FM type mode. During the program type search, "SEARCHING...." will show on the display. Also at this time, "FM" and "TYPE" will appear on the display to indicate that the preset buttons are for program type.

After searching for all available RDS stations, the radio will activate the previously used program type. If the previously used program type is not available, or if the radio has not yet performed a program type search, the radio will activate the first available program type, in alphabetical order, that has stations in memory. The radio will preset the stations of the current program type into the preset buttons.

If more than 6 stations of a program type are found, the radio will create a second bank of presets, such as "Rock 1" and "Rock 2". These are accessible through the "<PROG TYPES>" button. If more than 12 stations are found, the radio will load the 12 strongest stations signal of the program type into the presets.

After the search is complete, the radio will display the number of RDS stations found for 3 seconds: for example, "Found 19 RDS." The radio will then display the selected program type for 3 seconds: for example, "ROCK." After the program type has been displayed for 3 seconds, the radio will display the program type name for 3 seconds. After that, the radio will display the program service name.

Day mode (headlights off): The radio will only display the number of presets that have a frequency for the selected program type. For example, if program type Rock is selected, and there are three rock stations, only preset numbers 1, 2 and 3 will be displayed. The remaining preset numbers will not be displayed and the remaining preset button(s) will have no function.

Night mode (headlights on): In addition to the display described for day mode, the radio will illuminate the jewels of the presets that have stations available. The remaining preset button(s) will have no function.

A type search in progress can be canceled by pushing the following buttons: "SEEK", "TUNE", "SCAN", "AM", "FM", any preset button, "CD" (if CD mode is available), "TAPE" (if tape mode is available), "RDS", "SRCH", "<PROG TYPES>", "TRAF", or "LOAD". If any of these buttons is pressed, the search will be canceled and the appropriate function started. Inserting a tape will also cancel the search.

If no RDS stations are found, "FOUND 0 RDS" will display and the radio will return to the previous FM mode and frequency.

**ST (Stereo reception) display**

Your radio automatically changes to stereo reception when a stereo broadcast is received. "ST" appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception.

### TAPE

Push "TAPE" to switch from radio or compact disc operation to cassette operation. If the audio system is off, you can turn on the cassette player by pushing "TAPE". In both cases, a cassette must already be loaded in the player.

### TRACK (Track up/down button): Compact disc player

By using this button, you can skip up or down to a different track.

Push either side of the track button until the number of the track you want to listen to appears on the display. If you want to return to the beginning of the current track, quickly push the down side of the button one time.

### TRAFFIC (Traffic)

This feature is available only in RDS mode.

This button turns the traffic announcement (TA) feature on and off.

By pushing this button, RDS is turned on if it was off ("RDS" will display), and traffic announcement feature is on. "TRAFFIC" appears on the display when the radio is tuned to a traffic station. When the traffic announcement feature is on, "< >" will be displayed (<TRAFFIC>).

If the current station is not a traffic station, the radio will start a traffic program search in increasing frequency order. During a traffic program search, "Seek Traffic" will display. If no traffic programs are found, "No Traf Info" will display.

If the radio receives a traffic announcement, it will interrupt the cassette player or compact disc mode (if either one was on), adjust the volume to Traffic Announcement level, and broadcast the traffic announcement. During a traffic announcement, "TRAFFIC" will appear on the display. After traffic announcement, it will return to the previous mode and volume level.

TA volume memory function—The volume level when receiving the traffic announcement is memorized.

When "TA" is received next time, the system compares the volume before "TA" is received and the memorized TA volume and automatically selects the louder volume. However, the range of volume memory is limited: if the volume received previously is less than the minimum, this volume will be used.

You can adjust the volume independently from the memorized TA volume range while receiving a TA station.

Traffic announcement can be canceled by turning RDS off, or pressing the "TRAFFIC" button again.

### TUNE (Tuning)

Your Toyota has an electronic tuning radio (ETR). Push and release the "▲" or "▼" side of "TUNE" to step up or down the station band. Do this again to find another frequency.

If you push and hold the "▲" or "▼" side of "TUNE", the radio will continue seeking up or down for frequencies and will stop at the next frequency that it finds after the button is released. Press the button again to resume the search.

## Car audio system operating hints

<b>NOTICE</b>
<p><b><i>To ensure correct audio system operations:</i></b></p> <ul style="list-style-type: none"> <li>◆ <b><i>Be careful not to spill beverages over the audio system.</i></b></li> <li>◆ <b><i>Do not put anything other than a cassette tape or Compact Disc into the slot.</i></b></li> <li>◆ <b><i>The use of a cellular phone inside or near the vehicle may cause a noise from the speakers of the audio system which you are listening to. However, this does not indicate a malfunction.</i></b></li> </ul>

### RADIO RECEPTION

Usually, a problem with radio reception does not mean there is a problem with your radio—it is just the normal result of conditions outside the vehicle.

For example, nearby buildings and terrain can interfere with FM reception. Power lines or telephone wires can interfere with AM signals. The farther you are from a station, the weaker its signal will be. In addition, reception conditions change constantly as your vehicle moves.

Here are some common reception problems that you may experience.

#### FM

Fading and drifting stations—Generally, the effective range of FM is about 40 km (25 miles). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

Multi-path—FM signals are reflective, making it possible for two signals to reach your antenna at the same time. If this happens, the signals will cancel each other out, causing a momentary flutter or loss of reception.

Static and fluttering—These occur when signals are blocked by buildings, trees, or other large objects. Increasing the bass level may reduce static and fluttering.

Station swapping—if the FM signal you are listening to is interrupted or weakened, and there is another strong station nearby on the FM band, your radio may tune in the second station until the original signal can be picked up again.

#### AM

Fading—AM broadcasts are reflected by the upper atmosphere—especially at night. These reflected signals can interfere with those received directly from the radio station, causing the radio station to sound alternately strong and weak.

Station interference—When a reflected signal and a signal received directly from a radio station are very nearly the same frequency, they can interfere with each other, making it difficult to hear the broadcast.

Static—AM is easily affected by external sources of electrical noise, such as high tension power lines, lightening, or electrical motors. This results in static.

#### **CARING FOR YOUR CASSETTE PLAYER AND TAPES**

For the best performance for your cassette player and tapes:

Clean the tape head and other parts regularly.

- A dirty tape head or tape path can decrease sound quality and tangle your cassette tapes. The easiest way to clean them is by using a cleaning tape. (A wet type is recommended.)

Use high-quality cassettes.

- Low-quality cassette tapes can cause many problems, including poor sound, inconsistent playing speed, and constant auto-reversing. They can also get stuck or tangled in the cassette player.
- Do not use a cassette if it has been damaged or tangled or if its label is peeling off.
- Do not leave a cassette in the player if you are not listening to it, especially if it is hot outside.
- Store cassettes in their cases and out of direct sunlight.

- Avoid using cassettes with a total playing time longer than 100 minutes (50 minutes per side). The tape used in these cassettes is thin and could get stuck or tangled in the cassette player.

#### **CARING FOR YOUR COMPACT DISC PLAYER AND DISCS**

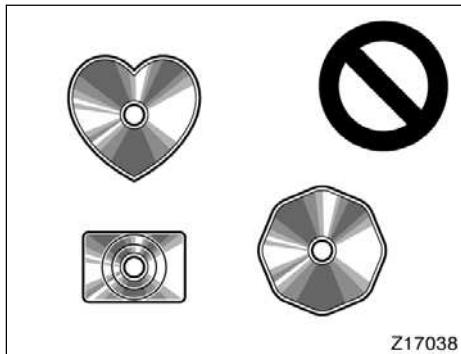
- Your compact disc player is intended for use with 12 cm (4.7 in.) discs only.
- Extremely high temperatures can keep your compact disc player from working. On hot days, use the air conditioning to cool the vehicle interior before you listen to a disc.
- Bumpy roads or other vibrations may make your compact disc player skip.
- If moisture gets into your compact disc player, you may not hear any sound even though your compact disc player appears to be working. Remove the disc from the player and wait until it dries.

#### **CAUTION**

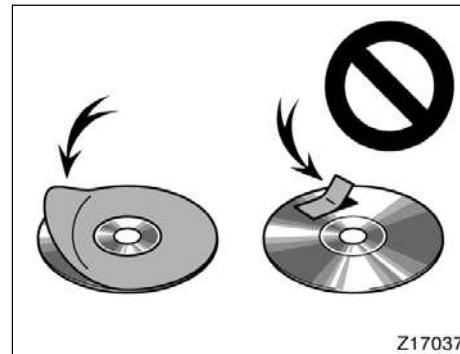
Compact disc players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.



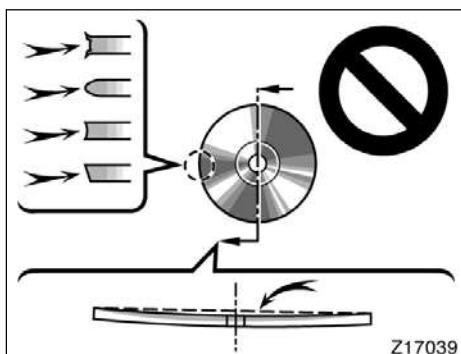
- Use only compact discs marked as shown above. CD-R (CD-Recordable), CD-RW (CD-Re-writable) and personal computer use CD-ROMs may not be playable on your compact disc player.



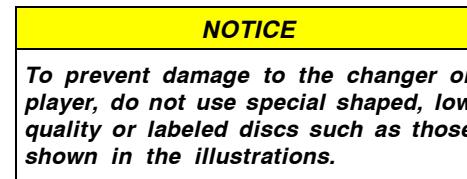
Special shaped discs

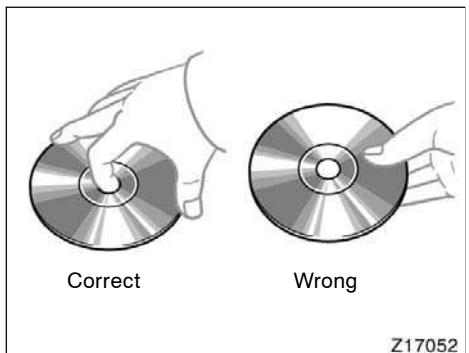


Labeled discs

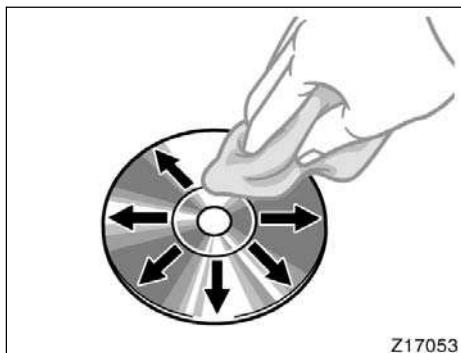


Low quality discs





Z17052



Z17053

- Handle compact discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scrapes, warping, pin holes, or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the compact disc player when you are not listening to them. Store them in their plastic cases away from moisture, heat, and direct sunlight.

To clean a compact disc: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.

**'03 AVALON U (L/O 0206)**

## ***SECTION 1 - 8***

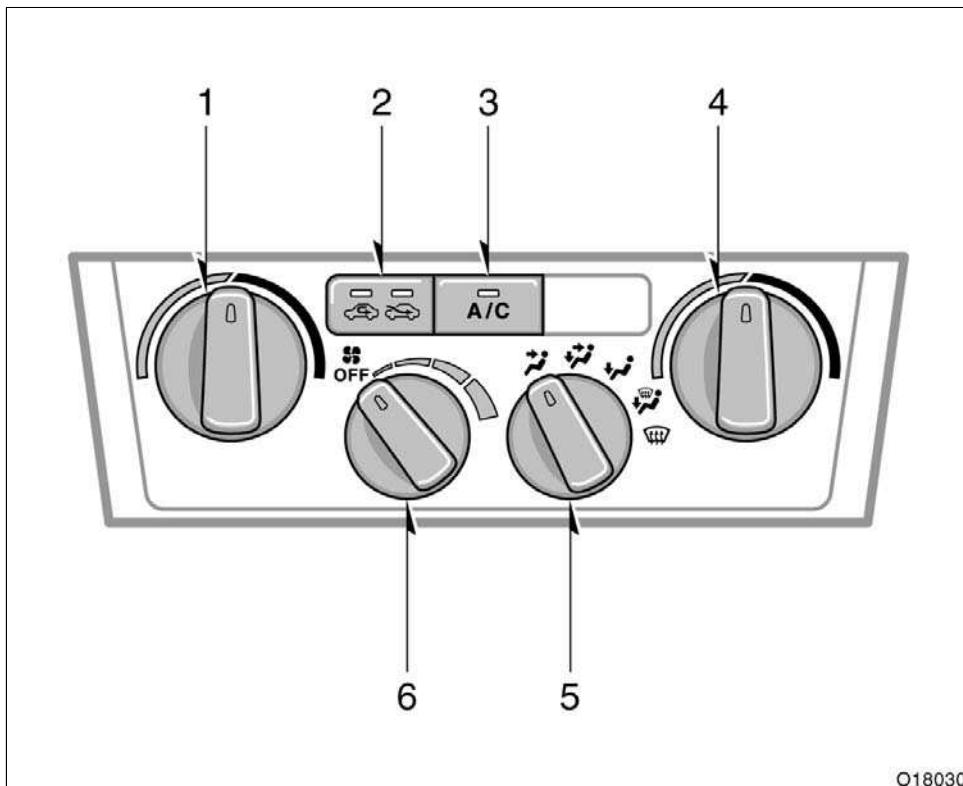
### **OPERATION OF INSTRUMENTS AND CONTROLS**

#### **Air conditioning system**

Manual air conditioning system	
Controls .....	168
Air flow selector settings .....	172
Operating tips .....	172
Automatic air conditioning system	
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**Manual air conditioning system—  
—Controls**



1. Temperature selector  
(mainly for driver and secondarily for front passenger)
2. Air intake selector
3. "A/C" button
4. Temperature selector  
(mainly for front passenger and secondarily for driver)
5. Air flow selector
6. Fan speed selector

**Fan speed selector**

Turn the knob to adjust the fan speed—to the right to increase, to the left to decrease.

**Temperature selector**

Turn the knob to adjust the temperature—to the right to warm, to the left to cool.

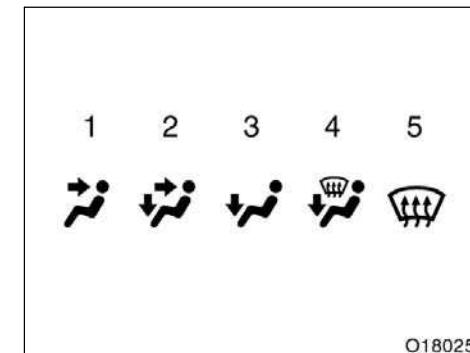
**Knowledge for the two-temperature selector operation**

This air conditioning system has two independent temperature selectors: left and right (for the use of driver and front passenger respectively).

- There are cases where the temperature of the airflow may not accurately correlate on the driver and front passenger side according to circumstances, even if the left and right temperature selectors are set at the same temperature. If this situation occurs, use the fine tune operation to adjust the air temperature on one side.

Note: This manual dual temperature selectors should generally only be used as independent temperature settings for the left and right.

- There are cases where one or both of the airflow temperatures may not accurately correlate with the set temperature according to circumstances, when the airflow temperature settings on the left and right are substantially different. For example, if the left controller is set at central or neutral temperature while the right one is set at maximum heating or maximum cooling, or vice versa. If this situation occurs, use the fine tune operation to adjust the air temperature on each side.



O18025

**Air flow selector**

Turn the knob to select the vents used for air flow.

- Panel**—Air flows mainly from the instrument panel vents.
- Bi-level**—Air flows from both the floor vents and the instrument panel vents. When you set the temperature selector setting at about the center, warm air flows out of the floor vents and relatively low-temperature air flows out of the center and side vents.
- Floor**—Air flows mainly from the floor vents.

**4. Floor/Windshield**—Air flows mainly from the floor vents and windshield vents.

Turning the air flow selector to the floor/windshield position turns on the defogging function with the purpose of clearing the front view.

This position allows the air intake to select FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

**5. Windshield**—Air flows mainly from the windshield vents.

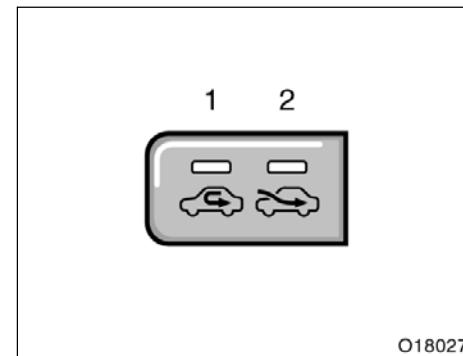
Turning the air flow selector to the windshield position turns on the defogging function with the purpose of clearing the front view.

This position allows the air intake to select FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

For details about air flow selector settings, see "—Air flow selector settings" described below.



**Air intake selector**

Press the button to select the air source. An indicator light will illuminate to show which air intake mode is being selected.

- 1. Recirculate**—Recirculates the air inside the vehicle.
- 2. Fresh**—Draws outside air into the system.

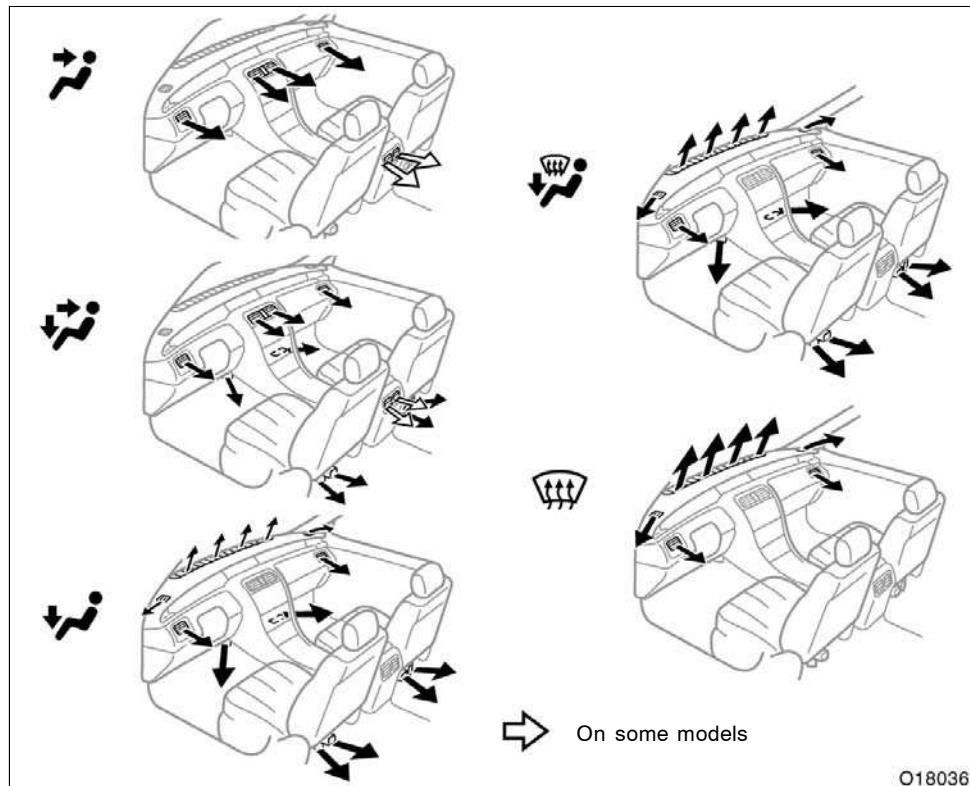
To prevent fogging up of the windshield, the air intake mode may change automatically to FRESH depending on the condition of the air conditioning system.

**“A/C” button**

To turn on the air conditioning, press the “A/C” button. The “A/C” button indicator will come on. To turn the air conditioning off, press the button again.

If the “A/C” button indicator flashes, there is a problem in the air conditioning system and the air conditioning automatically shuts off. If this happens, take your vehicle to your Toyota dealer for service.

—Air flow selector settings



—Operating tips

- To cool off your Toyota after it has been parked in the hot sun, drive with the windows open for a few minutes. This vents the hot air, allowing the air conditioning to cool the interior more quickly.
- Make sure the air intake grilles in front of the windshield are not blocked (by leaves or snow, for example).
- On humid days, do not blow cold air on the windshield. The windshield could fog up because of the difference in air temperature on the inside and outside of the windshield.
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce the amount of fogging on the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake selector be set to FRESH and the fan speed selector to any setting except "OFF".

- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake selector be temporarily set to RECIRCULATE, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

#### Heating

For best results, set controls to:

**Fan speed**—Any setting except “OFF”  
**Temperature**—Towards **WARM**  
(red zone)  
**Air intake**—**FRESH** (outside air)  
**Air flow**—**FLOOR**  
**Air conditioning**—**OFF**

- For quick heating, select recirculated air for a few minutes. To keep the windows from fogging, select fresh after the vehicle interior has been warmed.
- Press the “A/C” button on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

#### Air conditioning

For best results, set controls to:

**Fan speed**—Any setting except “OFF”  
**Temperature**—Towards **COLD**  
(blue zone)  
**Air intake**—**FRESH** (outside air)  
**Air flow**—**PANEL**  
**Air conditioning**—**ON**

- For quick cooling, select recirculated air for a few minutes.

#### Ventilation

For best results, set controls to:

**Fan speed**—Any setting except “OFF”  
**Temperature**—Towards **COLD**  
(blue zone)  
**Air intake**—**FRESH** (outside air)  
**Air flow**—**PANEL**  
**Air conditioning**—**OFF**

### Defogging

The inside of the windshield

For best results, set controls to:

**Fan speed**—Any setting except “OFF”  
**Temperature**—Towards **WARM**  
(red zone) to heat;  
**COLD** (blue zone) to cool  
**Air intake**—**FRESH** (outside air)  
**Air flow**—**WINDSHIELD**

Turning the air flow selector to the windshield or floor/windshield position turns on the defogging function with the purpose of clearing the front view.

When turning the air flow selector to windshield or floor/windshield position, the air intake selects FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the “A/C” button for dehumidified heating or cooling. This setting clears the front view more quickly.

- On humid days, do not blow cold air on the windshield—the difference between the outside and inside temperatures could make the fogging worse.

### Defrosting

The outside of the windshield

For best results, set controls to:

**Fan speed**—Any setting except “OFF”  
**Temperature**—Towards **WARM**  
(red zone)  
**Air intake**—**FRESH** (outside air)  
**Air flow**—**WINDSHIELD**

Turning the air flow selector to the windshield or floor/windshield position turns on the defrosting function with the purpose of clearing the front view.

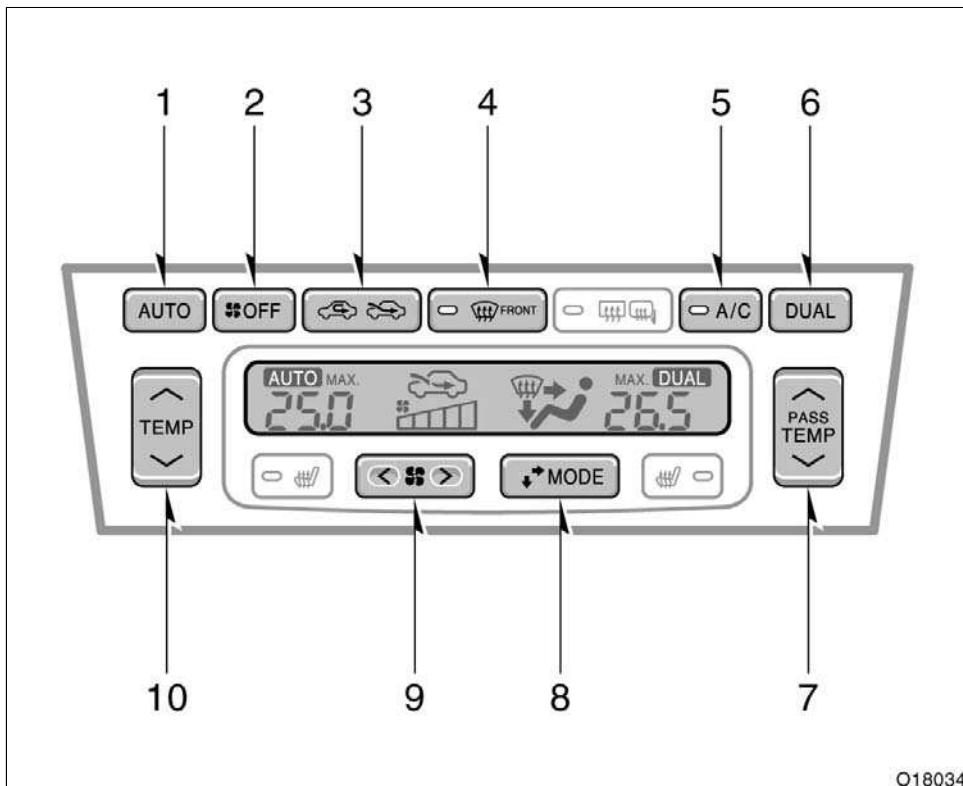
When turning the air flow selector to windshield or floor/windshield position, the air intake selects FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the “A/C” button for dehumidified heating or cooling. This setting clears the front view more quickly.

- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

**Automatic air conditioning system—  
—Controls**



1. "AUTO" button
2. "OFF" button
3. Air intake selector
4. Windshield air flow button
5. "A/C" button
6. "DUAL" button
7. Temperature selector  
(Only for the independent mode that display shows "DUAL"; mainly for front passenger and secondarily for driver)
8. "MODE" button (air flow selector)
9. Fan speed selector
10. Temperature selector  
(At the independent mode that display shows "DUAL"; mainly for driver and secondarily for front passenger)  
(At the linked mode that display does not show "DUAL"; for driver)

#### **“AUTO” button**

For automatic operation of the air conditioning, press the “AUTO” button. “AUTO” will appear on the display to show that the automatic operation mode has been selected.

In the automatic operation mode, the air conditioning selects the most suitable fan speed, air flow, air intake and on-off of the air conditioning according to the temperature.

When you press the “AUTO” button with the air intake mode at FRESH, internal circulation may be applied for maximum cooling.

You may use manual controls if you want to select your own settings.

To turn off the automatic operation, press the “OFF” button.

#### **Fan speed selector**

Push the “>” (increase) or “<” (decrease) side of the button to adjust the fan speed.

In automatic operation, you do not have to adjust the fan speed unless you desire another fan speed mode.

#### **Temperature selector**

To increase the temperature, press the “^” side, to decrease it, press the “V” side.

“MAX. COLD” appears when you adjust to maximum cooling, and “MAX. HOT” when you adjust to maximum warming.

The temperature display changes between “°C” and “°F” when the unit of the outside temperature display is changed.

#### **“DUAL” button**

This switch is used to set the temperatures independently for the driver's seat and front passenger seat.

Pushing the button changes the mode from independent and linked.

**Independent mode:** Temperatures can be set independently for the driver's seat and front passenger's seat. “DUAL” will appear on the display to show that the independent mode has been selected.

**Linked mode:** The same temperature is set for the driver's seat and front passenger's seat.

When the temperature for the front passenger's seat is changed in linked mode, the mode is changed automatically to independent mode.

#### **Knowledge for the two-temperature selector operation**

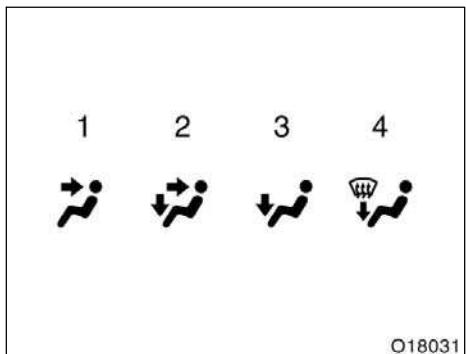
This air conditioning system has two independent temperature selectors: left and right (for the use of driver and front passenger respectively).

- There are cases where the temperature of the airflow may not accurately correlate on the driver and front passenger side according to circumstances, even if the left and right temperature selectors are set at the same temperature. If this situation occurs, use the fine tune operation to adjust the air temperature on one side.

- There are cases where one or both of the airflow temperatures may not accurately correlate with the set temperature according to circumstances, when the airflow temperature settings on the left and right are substantially different. For example, if the left controller is set at central or neutral temperature while the right one is set at maximum heating or maximum cooling, or vice versa. If this situation occurs, use the fine tune operation to adjust the air temperature on each side.

#### **“OFF” button**

Push the “OFF” button to turn off the air conditioning system.

**“MODE” button (air flow selector)**

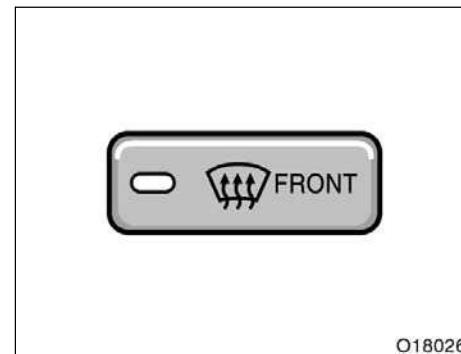
Push the “MODE” button to select the vents used for air flow.

In automatic operation, you do not have to select the air flow unless you desire another air flow mode.

- 1. Panel**—Air flows mainly from the instrument panel vents.
- 2. Bi-level**—Air flows from both the floor vents and the instrument panel vents. When you set the temperature selector setting at about the middle in automatic operation, warm air flows out of the floor vents and relatively low-temperature air flows out of the center and side vents.
- 3. Floor**—Air flows mainly from the floor vents.
- 4. Floor/Windshield**—Air flows mainly from the floor vents and windshield vents.

Use with the air intake selector positioned in FRESH.

For details about air flow selector settings, see “—Air flow selector settings” described below.

**Windshield air flow button**

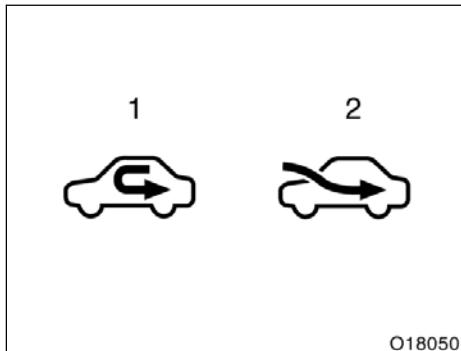
When this button is pressed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pressing this button once again returns the air flow mode to the last one used.

This button allows the air intake to select FRESH automatically. This is to clean up the front view more quickly. If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the “A/C” button for dehumidified heating or cooling. This setting clears the front view more quickly.

For details about air flow selector settings, see “—Air flow selector settings” described below.



#### Air intake selector

Press the button to select the air source. The air intake mode which is being selected is shown on the display.

- 1. Recirculate**—Recirculates the air inside the vehicle.
- 2. Fresh**—Draws outside air into the system.

To prevent fogging up of the windshield, the air intake mode may change automatically to FRESH depending on the condition of the air conditioning system.

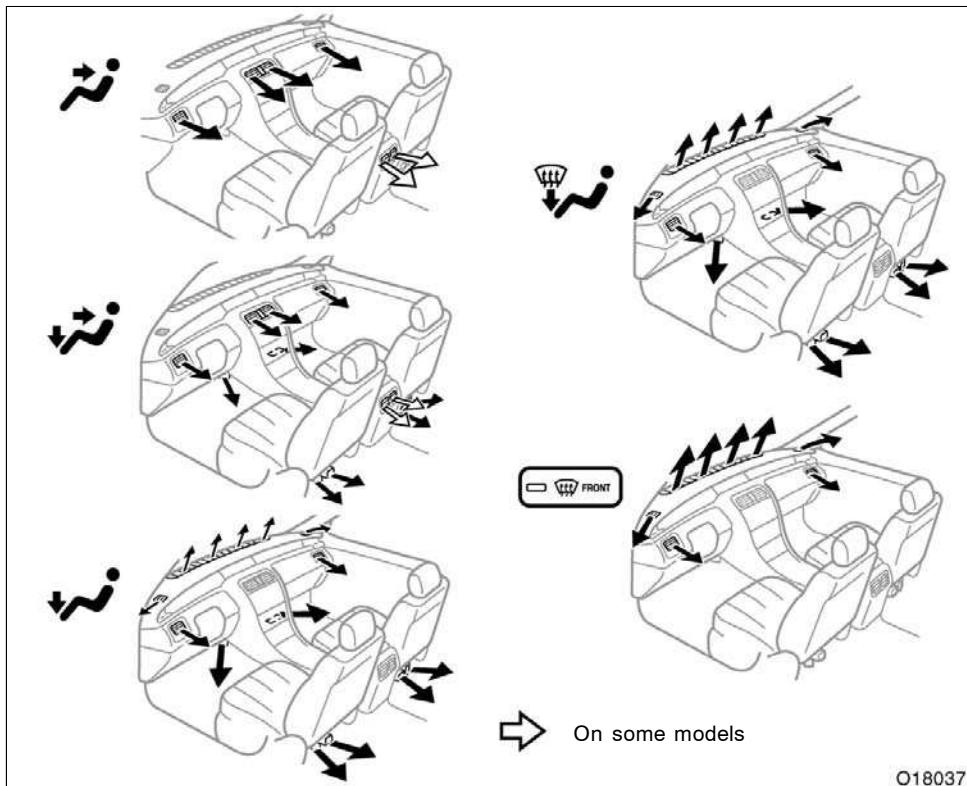
For example, when the ambient temperature is low, the air intake mode may change automatically to FRESH. This is not a malfunction.

#### “A/C” button

To turn on the air conditioning, press the “A/C” button. The “A/C” button indicator will come on. To turn the air conditioning off, press the button again.

If the “A/C” button indicator flashes, there is a problem in the air conditioning system and the air conditioning automatically shuts off. If this happens, take your vehicle to your Toyota dealer for service.

—Air flow selector settings



—Operating tips

- To cool off your Toyota after it has been parked in the hot sun, drive with the windows open for a few minutes. This vents the hot air, allowing the air conditioning to cool the interior more quickly.
- Make sure the air intake grilles in front of the windshield are not blocked (by leaves or snow, for example).
- On humid days, do not blow cold air on the windshield. The windshield could fog up because of the difference in air temperature on the inside and outside of the windshield.
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce the amount of fogging on the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake selector be set to FRESH and the fan speed selector to any setting except OFF.

- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake selector be temporarily set to RECIRCULATE, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

#### Heating

For best results, set controls to:

—For automatic operation

**Press in the “AUTO” button.**  
**Temperature**—To the desired temperature  
**Air intake**—FRESH (outside air)  
**Air conditioning**—OFF

—For manual operation

**Fan speed**—To the desired fan speed  
**Temperature**—Towards high temperature  
**Air intake**—FRESH (outside air)  
**Air flow**—FLOOR  
**Air conditioning**—OFF

- For quick heating, select recirculated air for a few minutes. To keep the windows from fogging, select fresh after the vehicle interior has been warmed.
- Press the “A/C” button on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

#### Air conditioning

For best results, set controls to:

—For automatic operation

**Press in the “AUTO” button.**  
**Temperature**—To the desired temperature  
**Air intake**—FRESH (outside air)  
**Air conditioning**—ON

—For manual operation

**Fan speed**—To the desired fan speed  
**Temperature**—Towards low temperature  
**Air intake**—FRESH (outside air)  
**Air flow**—PANEL  
**Air conditioning**—ON

- For quick cooling, select recirculated air for a few minutes.

**Ventilation**

For best results, set controls to:

—For automatic operation

**Press in the "AUTO" button.**

**Temperature**—Towards low temperature

**Air intake**—**FRESH** (outside air)

**Air conditioning**—**OFF**

—For manual operation

**Fan speed**—To the desired fan speed

**Temperature**—Towards low temperature

**Air intake**—**FRESH** (outside air)

**Air flow**—**PANEL**

**Air conditioning**—**OFF**

**Defogging and defrosting**

**—The inside of the windshield**

For best results, set controls to:

—For automatic operation

**Temperature**—Towards high temperature

to heat; low temperature

to cool

**Air intake**—**FRESH** (outside air)

**Air flow**—**WINDSHIELD**

—For manual operation

**Fan speed**—To the desired fan speed

**Temperature**—Towards high temperature

to heat; low temperature

to cool

**Air intake**—**FRESH** (outside air)

**Air flow**—**WINDSHIELD**

Pressing the windshield air flow button turns on the defogging function with the purpose of clearing the front view.

When pressing the windshield air flow button, the air intake selects FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

- On humid days, do not blow cold air on the windshield—the difference between the outside and inside temperatures could make the fogging worse.

**—The outside of the windshield**

For best results, set controls to:

—For automatic operation

**Temperature**—Towards high temperature

**Air intake**—**FRESH** (outside air)

**Air flow**—**WINDSHIELD**

—For manual operation

**Fan speed**—To the desired fan speed

**Temperature**—Towards high temperature

**Air intake**—**FRESH** (outside air)

**Air flow**—**WINDSHIELD**

Pressing the windshield air flow button turns on the defrosting function with the purpose of clearing the front view.

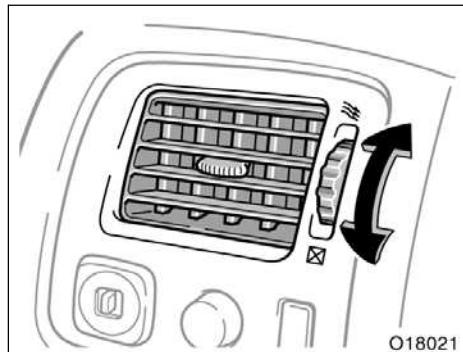
When pressing the windshield air flow button, the air intake selects FRESH automatically. This is to clean up the front view more quickly.

If you want to return the setting to RECIRCULATE mode, press the air intake selector button once again.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

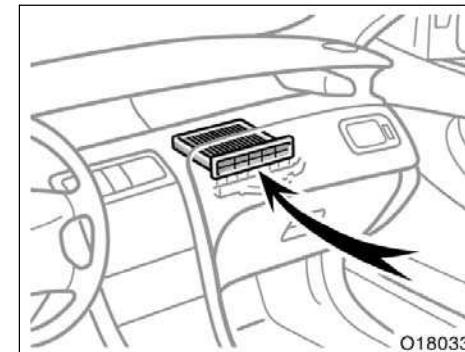
- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

#### Side vents



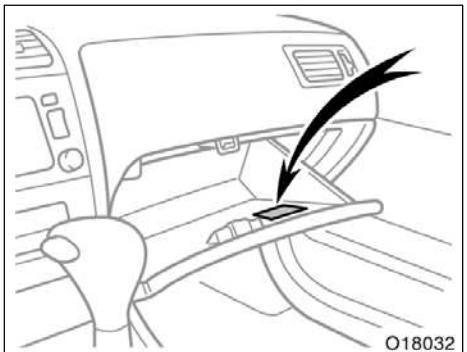
If air flow control is not satisfactory, check the side vents. The side vents may be opened or closed as shown.

#### Air conditioning filter



This air conditioning system has a high efficient air refiner filter which helps eliminate dust and pollen, thereby increasing your driving comfort.

The air conditioning filter is set behind the glove box.



The filter information label is placed on the inside of the glove box as shown.

#### CHECKING AND REPLACING AIR CONDITIONING FILTER

The air conditioning filter may clog after long use. The filter may need to be replaced if the air flow of the air conditioner and heater experiences extreme reductions in operating efficiency, or if the windows become to fog up easily.

Perform filter replacement periodically.

Period of replacement (expected):

For U.S.A.—Every 22500 miles

For Canada—Every 16000 km

Notes: This is the normal maintenance period. This may change depending on operating conditions.

If the symptoms of air conditioning efficiency problems occur, contact your Toyota dealer to have the filter checked and replaced.

(Actual replacement time: Less than 10 minutes approximately)

#### NOTICE

*Do not try to replace the air conditioning filter by yourself. Doing so may damage the vehicle.*

#### INFORMATION

*The air filter should be installed properly in position. The use of air conditioning with the air filter removed may cause deteriorated dustproof performance and then affect air conditioning performance.*

**'03 AVALON U (L/O 0206)**

## ***SECTION 1 - 9***

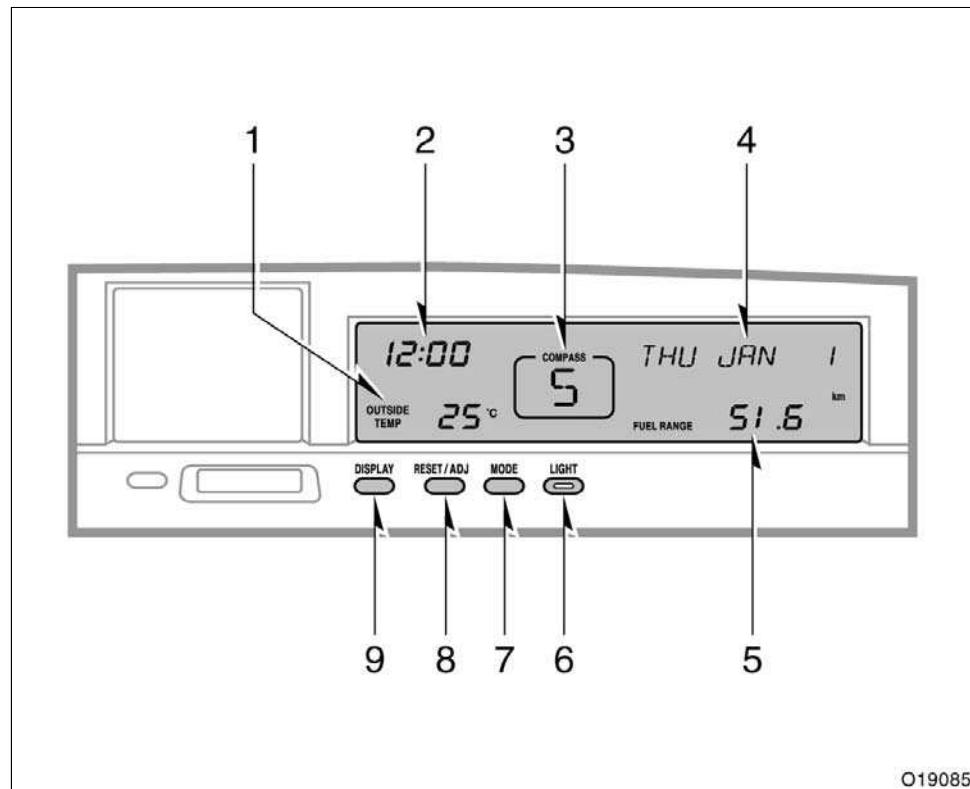
### **OPERATION OF INSTRUMENTS AND CONTROLS**

#### **Other equipment**

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**Multi-information display—**



1. Outside temperature display
2. Clock
3. Compass
4. Calendar
5. Cruise information display
6. "LIGHT" button
7. "MODE" button
8. "RESET/ADJ" button
9. "DISPLAY" button

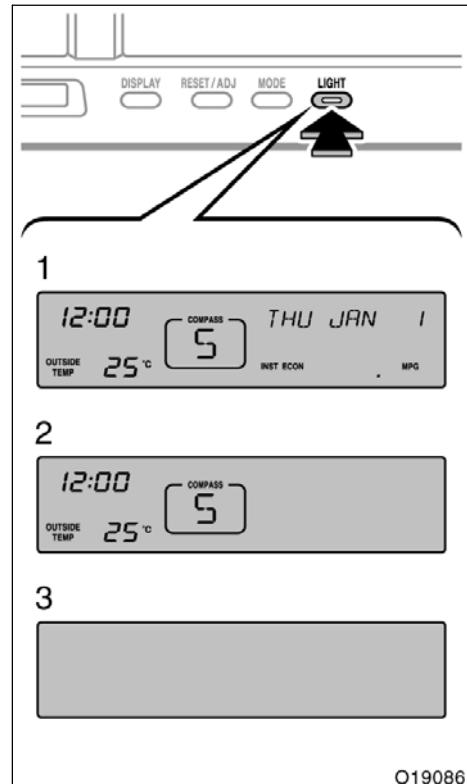
**—Before using the multi-information display**

Operate the multi-information display with the ignition switch on.

When the ignition switch is turned to "ON", the last previously used mode displayed just before the ignition switch is turned off will appear.

If the electrical power source has been disconnected from the multi-information display, the display will automatically be set to the initial mode.

When the instrument panel lights are turned on, the brightness of the display will be reduced.



**"LIGHT" button**

This button is used to select the illumination pattern of the display.

Every time you push the "LIGHT" button, the display illuminates in the following order.

1. All the parts of the display are illuminated.
2. Clock, outside temperature display and compass are illuminated.
3. Illumination is off.

**"MODE" and "RESET/ADJ" buttons**

These buttons are used to select the item to be reset or adjusted.

Every time you push the "MODE" button, the display toggles in the following order.

1. Hour
2. Minute
3. Year
4. Month
5. Day
6. English or metric unit selection of the outside temperature display and cruise information display
7. Compass deviation calibration (zone)
8. Compass circling calibration

When the item desired to be corrected appears, reset or adjust it by pushing the "RESET/ADJ" button.

**"DISPLAY" button**

**This button is used to toggle the functions of the cruise information display.**

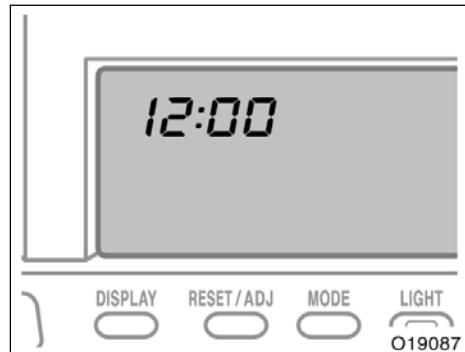
Every time you push the "DISPLAY" button, the display toggles.

For more details, see "—Cruise information display".

**CAUTION**

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

**—Clock**



**The digital clock indicates the time.**

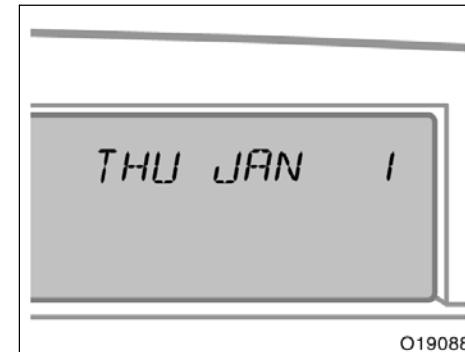
If the electrical power source has been disconnected, the time display will automatically be set to 1:00 a.m.

To reset the hour: Push the "MODE" button until the hour display appears and blinks. Then push the "RESET/ADJ" button.

To reset the minutes: Push the "MODE" button until the minute display appears and blinks. Then push the "RESET/ADJ" button.

After resetting the clock, push the "MODE" button until the display returns to normal calendar mode.

**—Calendar**



**The digital calendar indicates the date.**

If the electrical power source has been disconnected, the calendar display will automatically be set to "THU JAN 1".

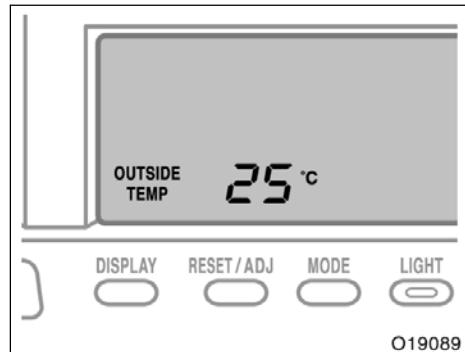
To reset the year: Push the "MODE" button until the year display appears and blinks. Then push the "RESET/ADJ" button. (After the year 2021 appears, the number returns to 2002.)

To reset the month: Push the "MODE" button until the month display appears and blinks. Then push the "RESET/ADJ" button.

To reset the day: Push the "MODE" button until the day display appears and blinks. Then push the "RESET/ADJ" button.

After resetting the calendar, push the "MODE" button until the display returns to normal calendar mode.

—Outside temperature display

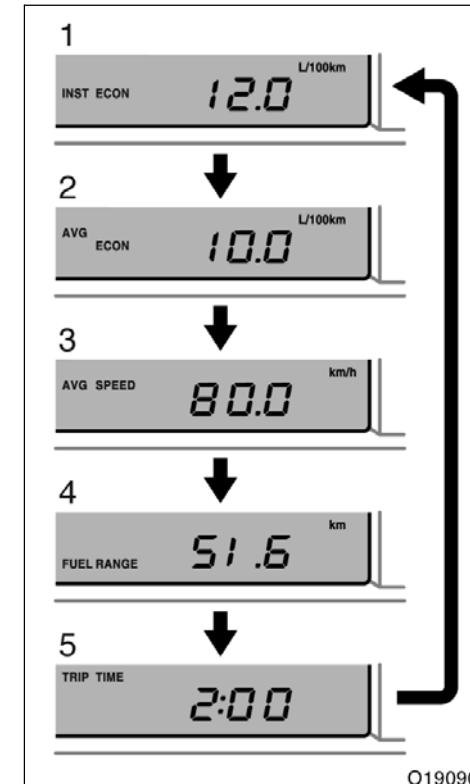


The outside temperature display indicates outside air temperatures.

To set the unit, push the "MODE" button until the unit display appears and blinks. Then push the "RESET/ADJ" button to select "°C" or "°F". (At this time, cruise information and air conditioning displays also change.)

After setting the unit, push the "MODE" button until the display returns to normal calendar mode.

—Cruise information display



**The cruise information display indicates the following information.**

1. Instantaneous fuel consumption
2. Average fuel consumption after refueling
3. Average vehicle speed
4. Driving range
5. Driving time

Every time you push the "DISPLAY" button, the display toggles through this information.

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

If the electrical power source has been disconnected, the display will automatically be set to instantaneous fuel consumption.

To set the unit, push the "MODE" button until the unit display appears and blinks. Then push the "RESET/ADJ" button to select km/liter or mile/gallon. (At this time, the outside temperature and air conditioning displays also change.)

After setting the unit, push the "MODE" button until the display returns to normal calendar mode.

**1. Instantaneous fuel consumption ("INST ECON")**

**The instantaneous fuel consumption is calculated and displayed based on driving distance and fuel consumption for 2 seconds 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.

- When the vehicle is stopped with the engine running, the display will indicate the extremely high fuel consumption.
- When 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.

**2. Average fuel consumption after refueling ("AVG ECON")**

**Average fuel consumption after refueling 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.

To reset the calculations, push the "RESET/ADJ" button.

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

**3. Average vehicle speed ("AVG SPEED")**

**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 calculations, push the "RESET/ADJ" button.

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

**4. Driving range  
("FUEL RANGE")**

**The distance the vehicle can travel with the remaining fuel is calculated and displayed based on the quantity of remaining fuel and past fuel consumption.**

The displayed value is updated every time when the fuel equivalent for 1 km is consumed.

Every time you refuel the vehicle, the driving range calculation is automatically reset.

The actual driving range varies with driving habits and road conditions. If fuel consumption is good, the driving range will be longer. If fuel consumption is poor, the driving range will be shorter.

**5. Driving time  
("TRIP TIME")**

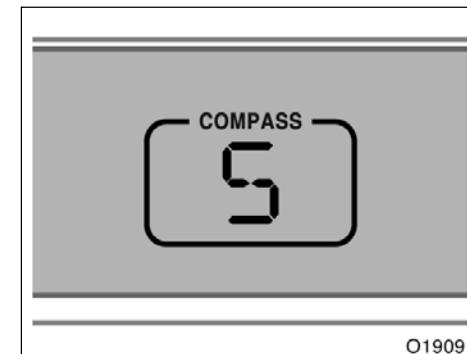
**The elapsed time after the engine starts is displayed.**

When the engine is started, driving time is counted from 0:00. Up to 99:59 (99 hours, 59 minutes) can be displayed. When the driving time exceeds 99:59, the counter returns to 0:00.

To reset the calculations, push the "RESET/ADJ" button.

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

**—Compass**



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

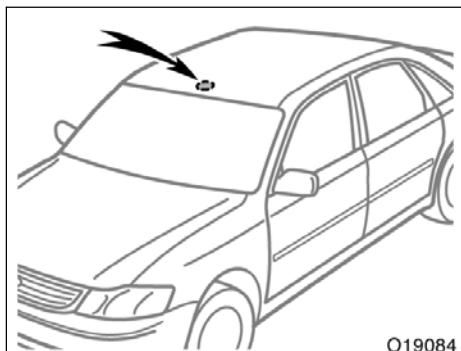
Displays	Directions
N	North
NE	Northeast
E	East
SE	Southeast
S	South
SW	Southwest
W	West
NW	Northwest

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 roof.)
- The battery has been disconnected.

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

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



Compass sensor

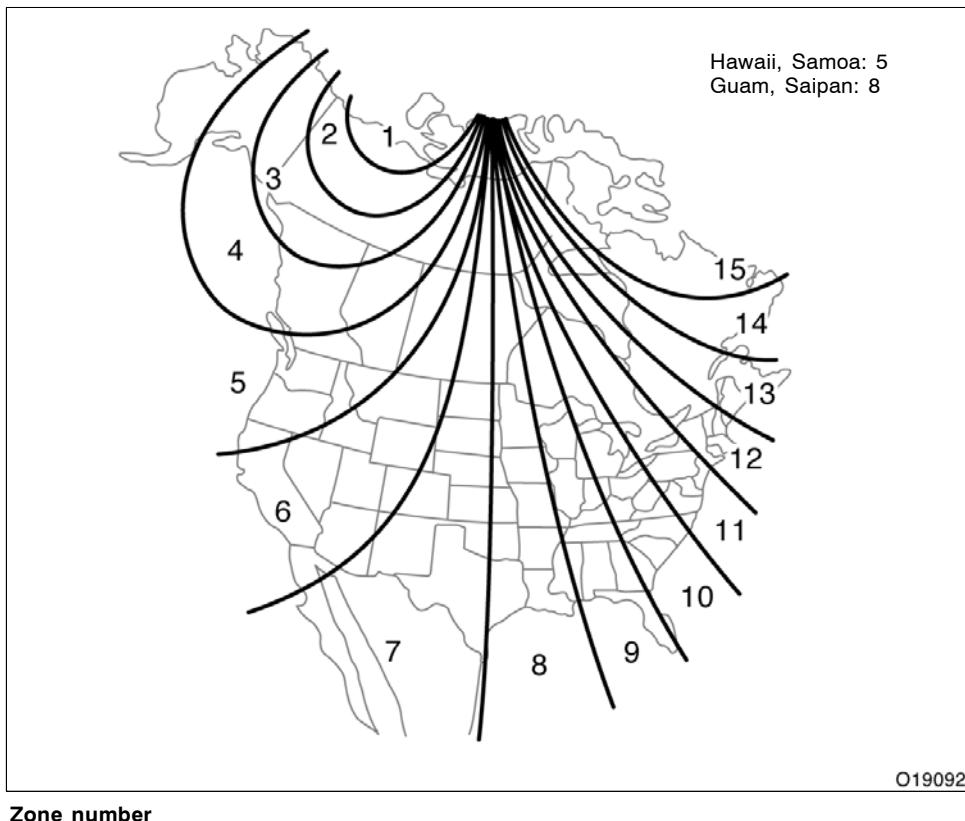
#### CALIBRATING THE COMPASS (deviation calibration)

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 for this deviation, stop the vehicle and push the "MODE" button several times until "ZONE XX" appears on the calendar display. Then push the "RESET/ADJ" button, referring to the following map to select the number of the zone where the vehicle is.

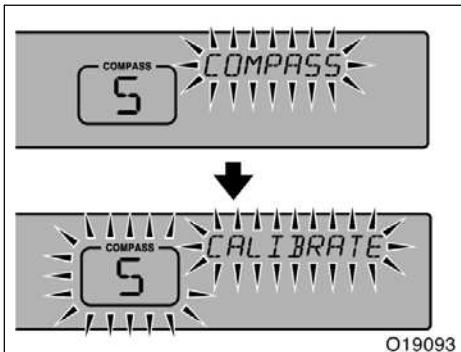
#### NOTICE

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



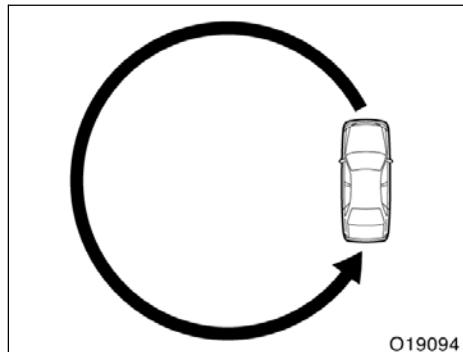
After calibration, push the "MODE" button several times until the calendar display returns to the normal mode.

**! 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 the "MODE" button several times until "COMPASS" appears and blinks on the display. Then push the "RESET/ADJ" button. "CALIBRATE" appears and blinks together with the compass display.



Drive the vehicle in a circle until the blinking stops. If there is not enough space to drive in a circle, drive around the block until the blinking stops.

When the compass and the calendar display return to normal mode, calibration is complete.

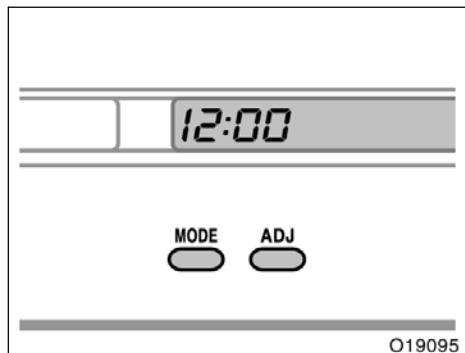
If you want to cancel the calibration before it is complete, push the "MODE" button again.

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.

**Clock****The digital clock indicates the time.**

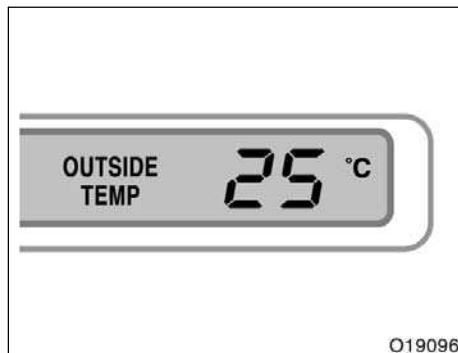
The key must be in the "ON" position.

To reset the hour: Push the "MODE" button until the hour display blinks. Then push the "ADJ" button.

To reset the minutes: Push the "MODE" button until the minute display blinks. Then push the "ADJ" button.

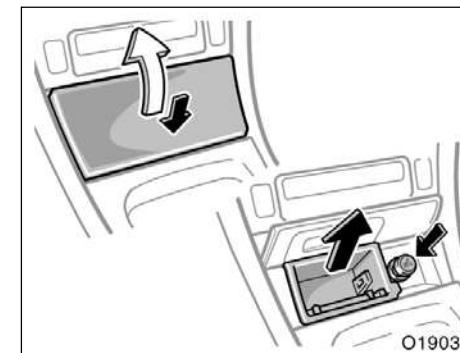
If the electrical power source has been disconnected from the clock, the time display will automatically be set to 1:00 (one o'clock).

When the instrument panel lights are turned on, the brightness of the time indication will be reduced.

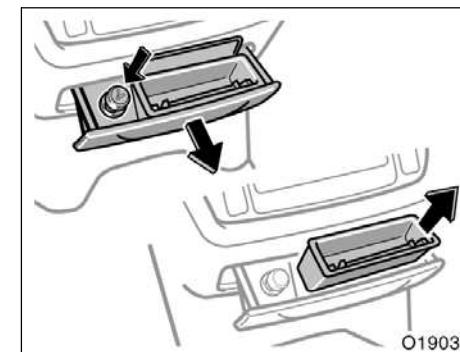
**Outside temperature display****The outside temperature display indicates the outside air temperatures with the ignition key at the "ON" position.**

When the instrument panel lights are turned on, the brightness of the display will be reduced.

To change the display between "°C" to "°F", push the "MODE" button until the display blinks. Then push the "ADJ" button to select "°C" or "°F".

**Cigarette lighter and ashtray**

With bucket front seat



With bench type front seat

#### CIGARETTE LIGHTER

To use the cigarette lighter, first open the ashtray lid, then press in the lighter. 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.

#### ASHTRAY

With bucket front seat—To use the ashtray, push the lid to open.

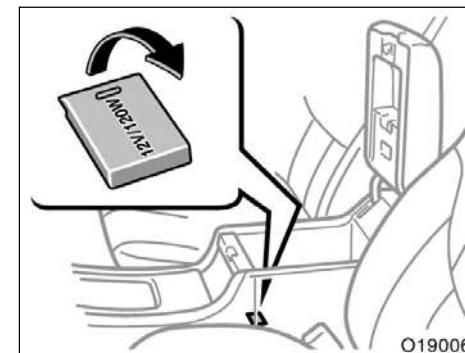
With bench type front seat—To use the ashtray, pull the lid to open.

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

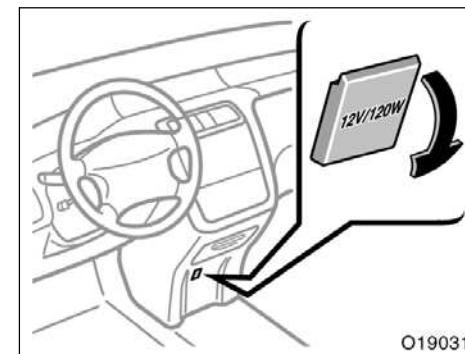
To remove the ashtray, open the ashtray lid and pull it out.



#### Power outlet (12 VDC)



With bucket front seat



With bench type front seat

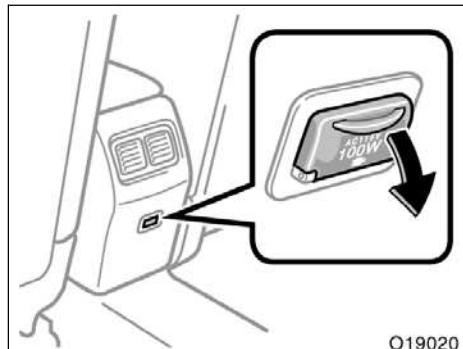
The power outlet is designed for power supply for car accessories.

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

#### NOTICE

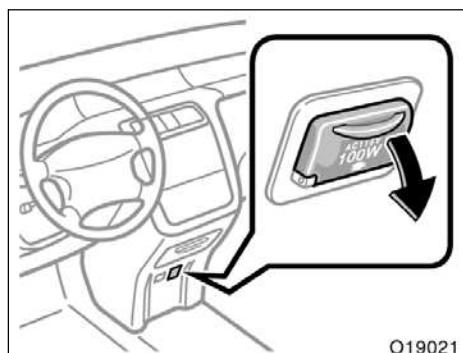
- ◆ *To prevent the fuse from being blown, do not use the electricity over the total vehicle capacity of 12 VDC/120W.*
- ◆ *To prevent the battery from being discharged, do not use the power outlet longer than necessary when the engine is not running.*
- ◆ *Close the power outlet lid when the power outlet is not in use. Inserting 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)



O19020

With bucket front seat



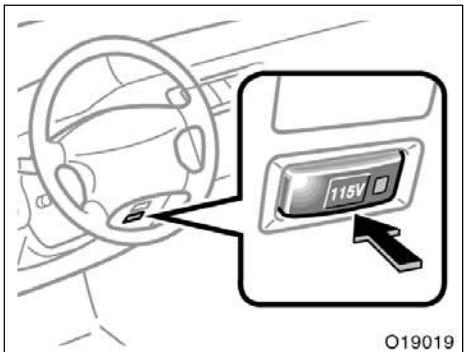
O19021

With bench type front seat

This power outlet 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

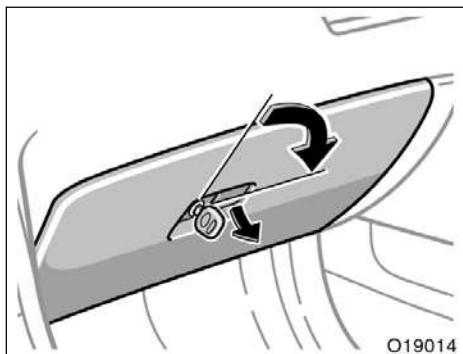
- ◆ To prevent the battery from being discharged, do not use the power outlet longer than necessary when the engine is not running.
- ◆ Close the power outlet lid when the power outlet is not in use. Inserting a foreign object other than the appropriate plug that fits the outlet may cause electrical 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.**

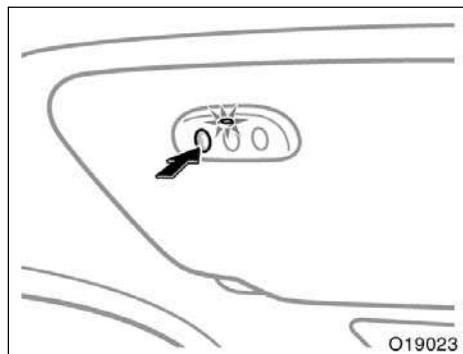
To open: Pull the lever.

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.



**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.

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**

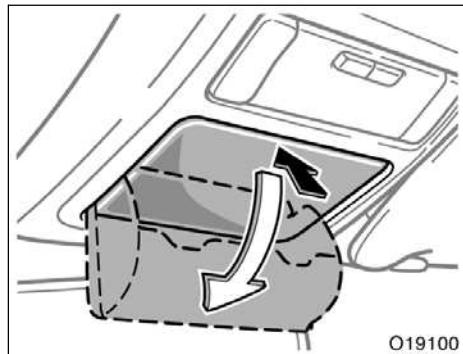
- When programming the HomeLink® Universal Transceiver, you may be operating a garage door or other device. Make sure people and objects are out of the way of the garage door or other device to prevent potential harm or damage.
- Do not use this HomeLink® Universal Transceiver with any garage door opener 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.

FCC ID: CB2V94800  
CANADA: 1763 102 264

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation.

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

### Auxiliary box (type A)



#### NOTICE

*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.*

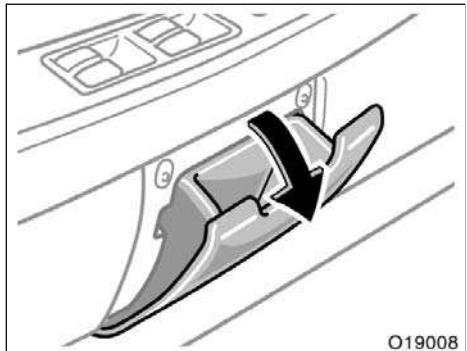
To use the box, push the lid to open.



#### CAUTION

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

Auxiliary box (type B)



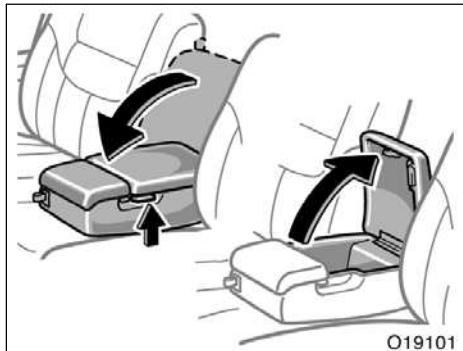
To use the box, pull on the handle.



**CAUTION**

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

Auxiliary box (type C)



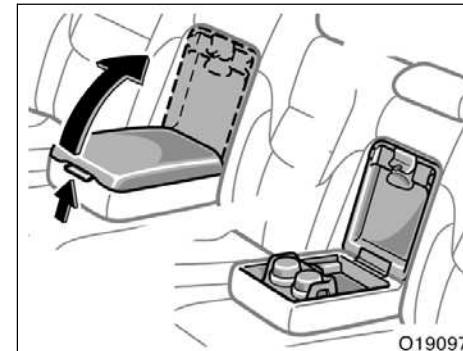
To use the box, pull down the armrest, pull up the lock release lever and open the lid.



**CAUTION**

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

Auxiliary box (type D)



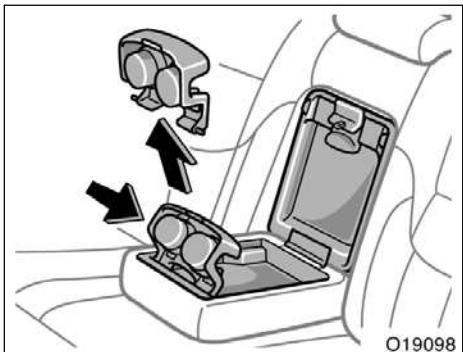
To use the box, pull up the lock release lever and open the lid.



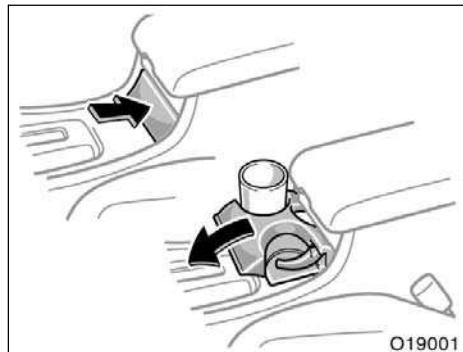
**CAUTION**

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

**Front cup holder (type A)**



To maximize the storage room, remove the cup holder by pushing the side facing at its upright position.



The cup holder is designed for holding cups or drink-cans securely.

To use the cup holder, push on the lid.

**CAUTION**

- Do not place anything else other than cups or drink-cans on 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.
- 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.

**Front cup holder (type B)**



**The cup holder is designed for holding cups or drink-cans securely.**

To use the cup holder, pull down the armrest, pull up the lock release lever and open the lid.

**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.
- 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.
- Do not lift the armrest upright when the cup holder is pulled out.

**Rear cup holder (type A)**



**The cup holder is designed for holding cups or drink-cans securely.**

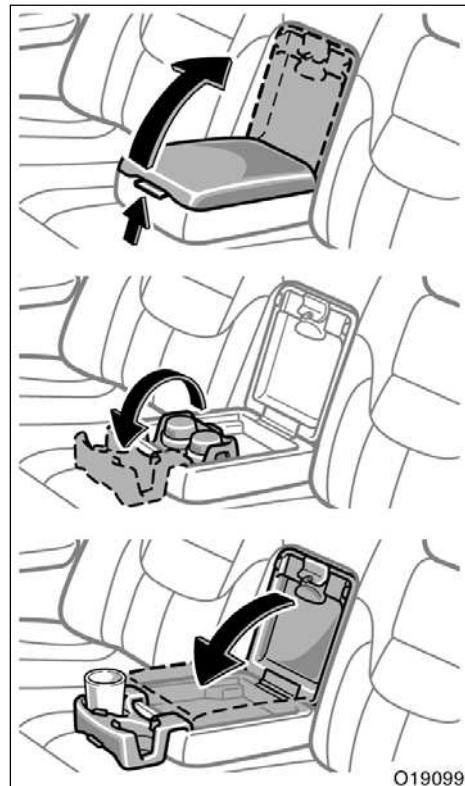
To use the cup holder, pull down the armrest.

### Rear cup holder (type B)



#### 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.
- 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.
- Do not lift the armrest upright when the cup holder is pulled out.



The cup holder is designed for holding cups or drink-cans securely.

To use the cup holder, open the armrest lid by pulling up the lock release lever and pull out the cup holder. Then close the armrest lid.

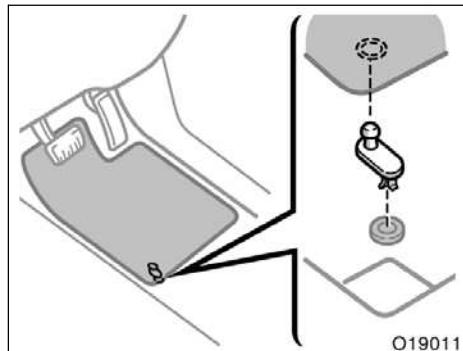


#### CAUTION

- Do not leave the armrest lid open, especially when the cup holder holds a scalding hot drink. If the lid is forcibly pulled up, the drink may spill over the seat occupants.
- When the cup holder is in use, the armrest lid must be securely closed with the lock engaged.
- 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.

- 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.
- Do not lift the armrest upright when the cup holder is pulled out.

#### Floor mat



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

If the floor carpet and floor mat have a hole, then it is designed for use with a locking clip. Fix the floor mat with locking clip into the hole 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.

**'03 AVALON U (L/O 0206)**

## **SECTION 2**

### **INFORMATION BEFORE DRIVING YOUR TOYOTA**

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## Break-in period

### Drive gently and avoid high speeds.

Your vehicle does not need an elaborate break-in. But following a few simple tips for the first 1600 km (1000 miles) can add to the future economy and long life of your vehicle:

- Avoid full throttle acceleration when starting and driving.
- Avoid racing the engine.
- Try to avoid hard stops during the first 300 km (200 miles).
- Do not drive for a long time at any single speed, either fast or slow.
- Do not tow a trailer during the first 800 km (500 miles).

## Fuel

### FUEL TYPE

**Your new vehicle must use only unleaded gasoline.**

To help prevent gas station mix-ups, your Toyota has a smaller fuel tank opening. The special nozzle on pumps with unleaded fuel will fit it, but the larger standard nozzle on pumps with leaded gas will not.

At a minimum, the gasoline you use should meet specifications of ASTM D4814 in the U.S.A. and CGSB 3.5-M93 in Canada.

### NOTICE

***Do not use leaded gasoline. Use of leaded gasoline will cause the three-way catalytic converter to lose its effectiveness and the emission control system to function improperly. Also, this can increase maintenance costs.***

### OCTANE RATING

Select Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

Use of unleaded gasoline with an octane rating or research octane number lower than stated above will cause persistent heavy knocking. If it is severe, this will lead to engine damage.

### If your engine knocks...

If you detect heavy knocking even when using the recommended fuel, or if you hear steady knocking while holding a steady speed on level roads, consult your Toyota dealer.

However, now and then, you may notice light knocking for a short time while accelerating or driving up hills. This is no need of concern.

#### GASOLINE CONTAINING DETERGENT ADDITIVES

Toyota recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.

However, all gasoline sold in the U.S. contains detergent additives to keep clean and/or clean intake systems.

#### QUALITY GASOLINE

Automotive manufacturers in the U.S., Europe and Japan have developed a specification for quality fuel named World-Wide Fuel Charter (WWFC) that is expected to be applied world wide. The WWFC consists of three categories that depend on required emission levels. In the U.S., category 3 has been adopted. The WWFC improves air quality by providing for better emissions in vehicle fleets, and customer satisfaction through better vehicle performance.

#### CLEANER BURNING GASOLINE

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE is available in many areas.

Toyota recommends the use of cleaner burning gasoline and appropriately blended reformulated gasoline. These types of gasoline provide excellent vehicle performance, reduce vehicle emissions, and improve air quality.

#### OXYGENATES IN GASOLINE

Toyota allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE. If you use gasohol in your Toyota, be sure that it has an octane rating no lower than 87.

Toyota does not recommend the use of gasoline containing methanol.

#### GASOLINE CONTAINING MMT

Some gasoline contain an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Toyota does not recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected. The Malfunction Indicator Lamp on the instrument cluster may come on. If this happens, contact your Toyota dealer for service.

#### GASOLINE QUALITY

In a very few cases, you may experience driveability problems caused by the particular gasoline that you are using. If you continue to have unacceptable driveability, try changing gasoline brands. If this does not rectify your problem, then consult your Toyota dealer.

#### NOTICE

- ◆ *Do not use gasohol other than stated above. It will cause fuel system damage or vehicle performance problems.*
- ◆ *If driveability problems occur (poor hot starting, vaporizing, engine knock, etc.), discontinue the use.*

◆ *Take care not to spill gasohol during refueling. Gasohol may cause paint damage.*

**FUEL TANK CAPACITY**

70 L (18.5 gal., 15.4 Imp. gal.)

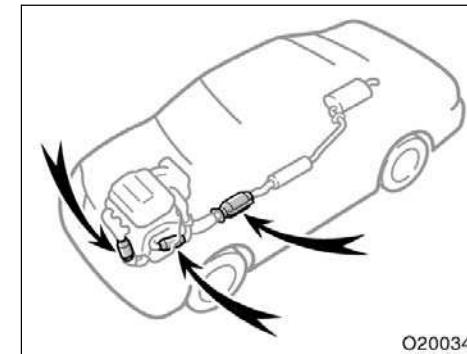
**Operation in foreign countries**

If you plan to drive your Toyota in another country...

First, comply with the vehicle registration laws.

Second, confirm the availability of the correct fuel (unleaded and minimum octane number).

**Three-way catalytic converters**



O20034

The three-way catalytic converter is an emission control device installed in the exhaust system.

The purpose is to reduce pollutants in the exhaust gas.

**CAUTION**

- Keep people and combustible materials away from the exhaust pipe while the engine is running. The exhaust gas is very hot.
- Do not drive, idle or park your vehicle over anything that might burn easily such as grass, leaves, paper or rags.

**NOTICE**

A large amount of unburned gases flowing into the three-way catalytic converter may cause it to overheat and create a fire hazard. To prevent this and other damage, observe the following precautions:

- ◆ Use only unleaded gasoline.
- ◆ Do not drive with an extremely low fuel level; running out of fuel could cause the engine to misfire, creating an excessive load on the three-way catalytic converter.
- ◆ Do not allow the engine to run at idle speed for more than 20 minutes.
- ◆ Avoid racing the engine.
- ◆ Do not push-start or pull-start your vehicle.
- ◆ Do not turn off the ignition while the vehicle is moving.

◆ Keep your engine in good running order. Malfunctions in the engine electrical system, electronic ignition system/distributor ignition system or fuel system could cause an extremely high three-way catalytic converter temperature.

◆ If the engine becomes difficult to start or stalls frequently, take your vehicle in for a check-up as soon as possible. Remember, your Toyota dealer knows your vehicle and its three-way catalytic converter system best.

◆ To ensure that the three-way catalytic converter and the entire emission control system operate properly, your vehicle must receive the periodic inspections required by the Toyota Maintenance Schedule. For scheduled maintenance information, refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

**Engine exhaust cautions****CAUTION**

- Avoid inhaling the engine exhaust. It contains carbon monoxide, which is a colorless and odorless gas. It can cause unconsciousness or even death.
- Make sure the exhaust system has no holes or loose connections. The system should be checked from time to time. If you hit something, or notice a change in the sound of the exhaust, have the system checked immediately.
- Do not run the engine in a garage or enclosed area except for the time needed to drive the vehicle in or out. The exhaust gases cannot escape, making this a particularly dangerous situation.
- Do not remain for a long time in a parked vehicle with the engine running. If it is unavoidable, however, do so only in an unconfined area and adjust the heating or cooling system to force outside air into the vehicle.

- Keep the trunk lid closed while driving. An open or unsealed trunk lid may cause exhaust gases to be drawn into the vehicle.
- To allow proper operation of your vehicle's ventilation system, keep the inlet grilles in front of the windshield clear of snow, leaves, or other obstructions.
- If you smell exhaust fumes in the vehicle, drive with the windows open and the trunk lid closed. Have the cause immediately located and corrected.

## Facts about engine oil consumption

### FUNCTIONS OF ENGINE OIL

Engine oil has the primary functions of lubricating and cooling the inside of the engine, and plays a major role in maintaining the engine in proper working order.

### ENGINE OIL CONSUMPTION

It is normal that an engine should consume some engine oil during normal engine operation. The causes of oil consumption in a normal engine are as follows.

- Oil is used to lubricate pistons, piston rings and cylinders. A thin film of oil is left on the cylinder wall when a piston moves downwards in the cylinder. High negative pressure generated when the vehicle is decelerating sucks some of this oil into the combustion chamber. This oil as well as some part of the oil film left on the cylinder wall is burned by the high temperature combustion gases during the combustion process.

- Oil is also used to lubricate the stems of the intake valves. Some of this oil is sucked into the combustion chamber together with the intake air and is burned along with the fuel. High temperature exhaust gases also burn the oil used to lubricate the exhaust valve stems.

**The amount of engine oil consumed depends on the viscosity of the oil, the quality of the oil and the conditions the vehicle is driven under.**

More oil is consumed by high-speed driving and frequent acceleration and deceleration.

A new engine consumes more oil, since its pistons, piston rings and cylinder walls have not become conditioned.

**When judging the amount of oil consumption, note that oil may become diluted and make it difficult to judge the true level accurately.**

As an example, if a vehicle is used for repeated short trips, and consumes a normal amount of oil, the dipstick may not show any drop in the oil level at all, even after 1000 km (600 miles) or more. This is because the oil is gradually becoming diluted with fuel or moisture, making it appear that the oil level has not changed.

The diluting ingredients evaporate out when the vehicle is then driven at high speeds, as on an expressway, making it appear that oil is excessively consumed after driving at high speeds.

#### IMPORTANCE OF ENGINE OIL LEVEL CHECK

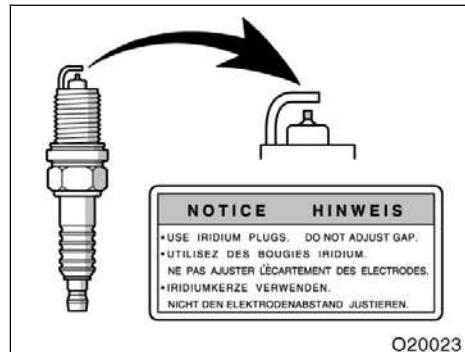
One of the most important points in proper vehicle maintenance is to keep the engine oil at the optimum level so that oil function will not be impaired. Therefore, it is essential that the oil level be checked regularly. Toyota recommends that the oil level be checked every time you refuel the vehicle.

##### NOTICE

*Failure to check the oil level regularly could lead to serious engine trouble due to insufficient oil.*

For detailed information on oil level check, see "Checking the engine oil level" in Section 7-2.

#### Iridium-tipped spark plugs



Your engine is fitted with iridium-tipped spark plugs.

##### NOTICE

*Use only iridium-tipped spark plugs and do not adjust gaps for your engine performance and smooth drivability.*

#### Brake system

The tandem master cylinder brake system is a hydraulic system with two separate sub-systems. If either sub-system should fail, the other will still work. However, the pedal will be harder to press, and your stopping distance will be longer. Also, the brake system warning light may come on.

##### ! CAUTION

**Do not drive your vehicle with only a single brake system. Have your brakes fixed immediately.**

#### BRAKE BOOSTER

The brake booster uses engine vacuum to power-assist the brakes. If the engine should quit while you are driving, you can bring the vehicle to a stop with normal pedal pressure. There is enough reserved vacuum for one or two stops—but no more!

 **CAUTION**

- Do not pump the brake pedal if the engine stalls. Each push on the pedal uses up your reserved vacuum.
- Even if the power assist is completely lost, the brakes will still work. But you will have to push the pedal hard, much harder than normal. And your braking distance will be longer.

**ANTI-LOCK BRAKE SYSTEM  
(with "ABS" warning light)**

The anti-lock brake system is designed to help prevent lock-up of the wheels during a sudden braking or braking on slippery road surfaces. This assists in providing directional stability and steering performance of the vehicle under these circumstances.

**Effective way to press the ABS brake pedal:** When the anti-lock brake system function is in action, you may feel the brake pedal pulsating and hear a noise. In this situation, to let the anti-lock brake system work for you, just hold the brake pedal down more firmly. Do not pump the brake in a panic stop. This will result in reduced braking performance.

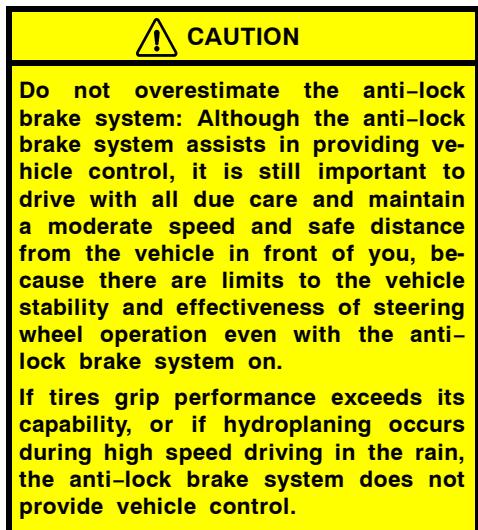
The anti-lock brake system becomes operative after the vehicle has accelerated to a speed in excess of approximately 10 km/h (6 mph). It stops operating when the vehicle decelerates to a speed below approximately 5 km/h (3 mph).

Depressing the brake pedal on slippery road surfaces such as on the manhole cover, the steel plate under the construction, joints in the bridge, etc. on a rainy day tends to activate the anti-lock brake system.

You may hear a click or motor sound in the engine compartment for a few seconds when the engine is started or just after the vehicle is started. This means that the anti-lock brake system is in the self check mode, and does not indicate a malfunction.

**When the anti-lock brake system is activated, the following conditions may occur. They do not indicate a malfunction of the system:**

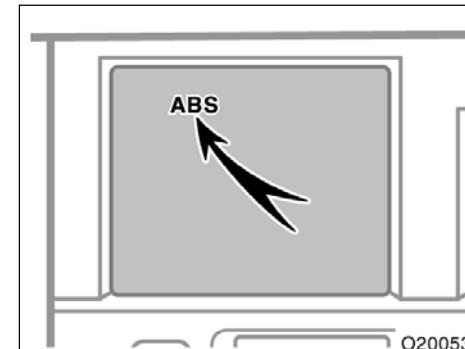
- You may hear the anti-lock brake system operating and feel the brake pedal pulsating and the vibrations of the vehicle body and steering wheel. You may also hear the motor sound in the engine compartment even after the vehicle is stopped.
- At the end of the anti-lock brake system activation, the brake pedal may move a little forward.



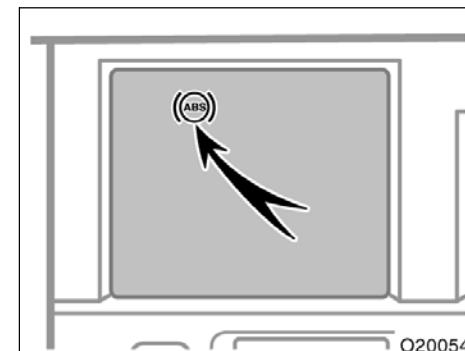
Anti-lock brake system is not designed to shorten the stopping distance: Always drive at the moderate speed and maintain a safe distance from the vehicle in front of you. Compared with vehicles without an anti-lock brake system, your vehicle may require a longer stopping distance in the following cases:

- Driving on rough, gravel or snow-covered roads.
- Driving with tire chains installed.
- Driving over the steps such as the joints on the road.
- Driving on roads where the road surface is pitted or has other differences in surface height.

Install all 4 tires of specified size at appropriate pressure: The anti-lock brake system detects vehicle speeds using the speed sensors for respective wheels' turning speeds. The use of tires other than specified may fail to detect the accurate turning speed resulting in a longer stopping distance.



Type A



Type B

#### **“ABS” warning light**

The light comes on when the ignition key is turned to the “ON” position. If the anti-lock brake system and the brake assist system work properly, the light turns off after a few seconds. Thereafter, if the system malfunctions, the light comes on again.

When the “ABS” warning light is on (and the brake system warning light is off), the anti-lock brake system, the brake assist system, the traction control system and the vehicle skid control system do not operate, but the brake system still operates conventionally.

When the “ABS” warning light is on (and the brake system warning light is off), the anti-lock brake system does not operate so that the wheels could lock up during a sudden braking or braking on slippery road surfaces.

**If either of the following conditions occurs, this indicates a malfunction somewhere in the parts monitored by the warning light. Contact your Toyota dealer as soon as possible to service the vehicle.**

- The light does not come on when the ignition key is turned to the “ON” position, or remains on.

- The light comes on while you are driving.

A warning light turning on briefly during operation does not indicate a problem.

#### **CAUTION**

**If the “ABS” warning light remains on together with the brake system warning light, immediately stop your vehicle at a safe place and contact your Toyota dealer.**

**In this case, not only the anti-lock brake system will fail but also the vehicle will become extremely unstable during braking.**

#### **DRUM-IN-DISC TYPE PARKING BRAKE SYSTEM**

Your vehicle has a drum-in-disc type parking brake system. This type of brake system needs bedding-down of the brake shoes periodically or whenever the parking brake shoes and/or drums are replaced.

Have your Toyota dealer perform the bedding-down.

#### **BRAKE ASSIST SYSTEM**

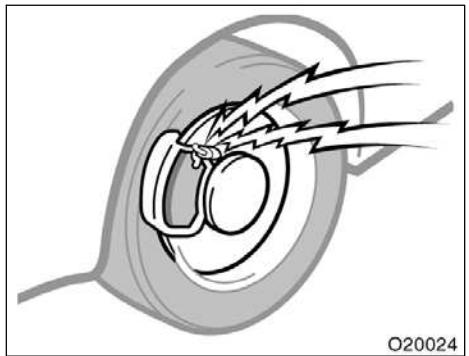
**When you slam the brakes on, the brake assist system judges as an emergency stop and provides more powerful braking for a driver who cannot hold down the brake pedal firmly.**

When you slam the brakes on, more powerful braking will be applied. At this time, you may hear a sound in the engine compartment and feel the vibration of the brake pedal. This does not indicate a malfunction.

The brake assist system becomes operative after the vehicle has accelerated to a speed in excess of approximately 10 km/h (6 mph). It stops operating when the vehicle decelerates to a speed below approximately 5 km/h (3 mph).

For an explanation of this system's warning light, see “Service reminder indicators and warning buzzers” in Section 1-5.

### Brake pad wear limit indicators



O20024

The brake pad wear limit indicators on your disc brakes give a warning noise when the brake pads are worn to where replacement is required.

If you hear a squealing or scraping noise while driving, have the brake pads checked and replaced by your Toyota dealer as soon as possible. Expensive rotor damage can result if the pads are not replaced when necessary.

### Luggage stowage precautions

When stowing luggage or cargo in the vehicle, observe the following:

- Put luggage or cargo in the trunk when at all possible. Be sure all items are secured in place.
- Be careful to keep the vehicle balanced. Locating the weight as far forward as possible helps maintain balance.
- For better fuel economy, do not carry unneeded weight.



#### CAUTION

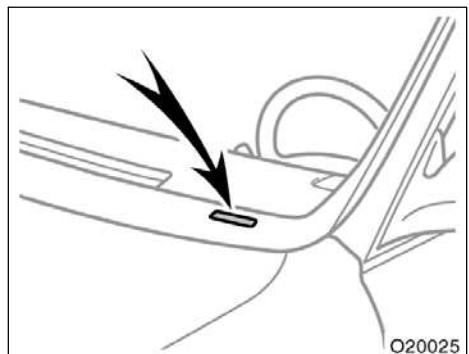
- Never allow anyone to ride in the enlarged trunk. It is not designed for passengers. They should ride in their seats with their seat belts properly fastened. Otherwise, they are much more likely to suffer serious bodily injury, in the event of sudden braking or a collision.
- Do not place anything on the package tray behind the rear seatback. Such items may be thrown about and possibly injure people in the vehicle during sudden braking or an accident.

- Do not drive with objects left on top of the instrument panel. They may interfere with the driver's field of view. Or they may move during sharp vehicle acceleration or turning, and impair the driver's control of the vehicle. In an accident they may injure the vehicle occupants.

#### NOTICE

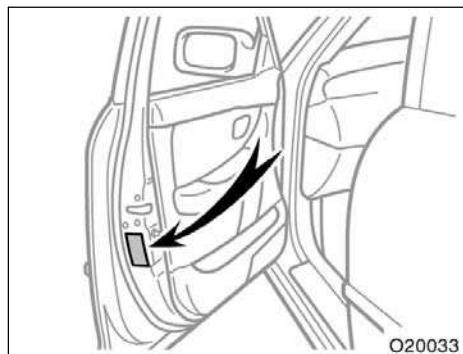
*Do not load the vehicle beyond the vehicle capacity weight specified in Section 8.*

**Your Toyota's identification—**  
**—Vehicle identification**  
**number**



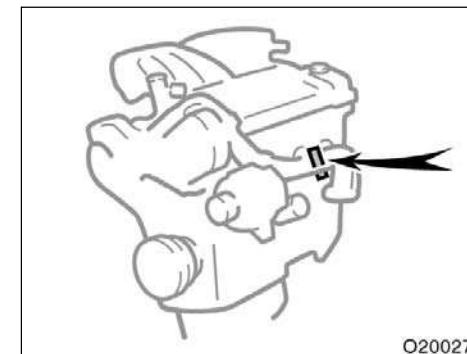
**The vehicle identification number (VIN) is the legal identifier for your vehicle. This number is on the left top of the instrument panel, and can be seen through the windshield from outside.**

This is the primary identification number for your Toyota. It is used in registering the ownership of your vehicle.



The vehicle identification number (VIN) is also on the Certification Label.

**—Engine number**



**The engine number is stamped on the engine block as shown.**

### Theft prevention labels (except for Canada)

Your new vehicle carries theft prevention labels which are approximately 56 mm (2.20 in.) by 16 mm (0.63 in.).

The purpose of these labels is to reduce the incidence of vehicle thefts by facilitating the tracing and recovery of parts from stolen vehicles. The label is designed so that once it is applied to a surface, any attempt to remove it will result in destroying the integrity of the label. Transferring these labels intact from one part to another, will be impossible.

#### NOTICE

*You should not attempt to remove the theft prevention labels as it may violate certain state or federal laws.*

### Suspension and chassis

#### CAUTION

Do not modify the suspension/chassis with lift kits, spacers, springs, etc. It can cause dangerous handling characteristics, resulting in loss of control.

### Types of tires

Make sure what kind of tires your vehicle is originally equipped with.

#### 1. Summer tires

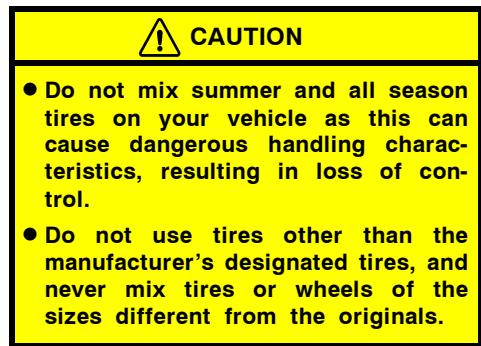
Summer tires are high-speed capability tires best suited to highway driving under dry conditions.

Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered or icy roads, we recommend using snow tires. If installing snow tires, be sure to replace all four tires.

#### 2. All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions, as well as for use all year round.

All season tires, however, do not have adequate traction performance compared with snow tires in heavy or loose snow. Also, all season tires fall short in acceleration and handling performance compared with summer tires in highway driving.



## **SECTION 3**

### **STARTING AND DRIVING**

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### **Before starting the engine**

1. Check the area around the vehicle before entering it.
2. Adjust seat position, seatback angle, seat cushion angle, head restraint height and steering wheel angle.
3. Adjust the inside and outside rear view mirrors.
4. Lock all the doors.
5. Fasten seat belts.

### **How to start the engine—**

#### **(a) Before cranking**

1. Apply the parking brake firmly.
2. Turn off unnecessary lights and accessories.
3. Put the selector lever in "P". If you need to restart the engine while the vehicle is moving, put the selector lever in "N". A starter safety device will prevent the starter from operating if the selector lever is in any drive position.
4. Depress the brake pedal and hold it to the floor until driving off.

#### **(b) Starting the engine**

Before starting the engine, be sure to follow the instructions in "(a) Before cranking".

##### **Normal starting procedure**

The multiport fuel injection system/sequential multiport fuel injection system in your engine automatically controls the proper air-fuel mixture for starting. You can start a cold or hot engine as follows:

1. With your foot off the accelerator pedal, crank the engine by turning the key to "START". Release it when the engine starts.
2. After the engine runs for about 10 seconds, you are ready to drive.

If the weather is below freezing, let the engine warm up for a few minutes before driving.

##### **If the engine stalls...**

Simply restart it, using the correct procedure given in normal starting.

##### **If the engine will not start...**

See "If your vehicle will not start" in Section 4.

### Tips for driving in various conditions

#### NOTICE

- ◆ *Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.*
- ◆ *Do not race a cold engine.*
- ◆ *If the engine becomes difficult to start or stalls frequently, have the engine checked immediately.*

#### ! CAUTION

- Before driving off, make sure the parking brake is fully released and the parking brake reminder light is off.
- Do not leave your vehicle unattended while the engine is running.
- Do not rest your foot on the brake pedal while driving. It can cause dangerous overheating, needless wear, and poor fuel economy.
- To drive down a long or steep hill, reduce your speed and downshift. Remember, if you ride the brakes excessively, they may overheat and not work properly.
- Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. Sudden acceleration or engine braking, could cause the vehicle to spin or skid.

- Do not drive in excess of the speed limit. Even if the legal speed limit permits it, do not drive over 140 km/h (85 mph) unless your vehicle has high-speed capability tires. Driving over 140 km/h (85 mph) may result in tire failure, loss of control and possible injury. Be sure to consult a tire dealer to determine whether the tires on your vehicle are high-speed capability tires or not before driving at such speeds.
- Do not continue normal driving when the brakes are wet. If they are wet, your vehicle will require a longer stopping distance, and it may pull to one side when the brakes are applied. Also, the parking brake will not hold the vehicle securely.

## Winter driving tips

### Make sure you have a proper freeze protection of engine coolant.

Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of aluminum components. Use "Toyota Genuine Long Life Coolant" or equivalent.

See Section 7-2 for details about coolant type selection.

#### NOTICE

*Do not use alcohol type antifreeze or plain water alone.*

When it is extremely cold, we recommend to use 60% solution for your Toyota, to provide protection down to about -50°C (-58°F). Do not use more than 70% solution for better coolant performance.

### Check the condition of the battery and cables.

Cold temperatures reduce the capacity of any battery, so it must be in top shape to provide enough power for winter starting. Section 7-3 tells you how to visually inspect the battery. Your Toyota dealer and most service stations will be pleased to check the level of charge.

### Make sure the engine oil viscosity is suitable for the cold weather.

See Section 7-2 for recommended viscosity. Leaving a heavy summer oil in your vehicle during winter months may cause harder starting. If you are not sure about which oil to use, call your Toyota dealer—he will be pleased to help.

### Keep the door locks from freezing.

Squirt lock de-icer or glycerine into the locks to keep them from freezing.

### Use a washer fluid containing an anti-freeze solution.

This product is available at your Toyota dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

#### NOTICE

*Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.*

**Do not use your parking brake when there is a possibility it could freeze.**

When parking, put the transmission into "P" and block the rear wheels. Do not use the parking brake, or snow or water accumulated in and around the parking brake mechanism may freeze, making it hard to release.

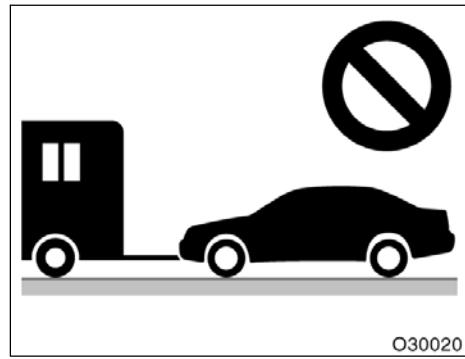
**Keep ice and snow from accumulating under the fenders.**

Ice and snow built up under your fenders can make steering difficult. During bad winter driving, stop and check under the fenders occasionally.

**Depending on where you are driving, we recommend you carry some emergency equipment.**

Some of the things you might put in the vehicle are tire chains, window scraper, bag of sand or salt, flares, small shovel, jumper cables, etc.

**Dinghy towing**



Your vehicle is not designed to be dinghy towed (with four wheels on the ground) behind a motorhome.

**NOTICE**

*Do not tow your vehicle with four wheels on the ground. This may cause serious damage to your vehicle.*

**Trailer towing**

Your vehicle is designed primarily as a passenger-carrying vehicle. Towing a trailer will have an adverse effect on handling, performance, braking, durability and driving economy (fuel consumption, etc.). Your safety and satisfaction depend on the proper use of correct equipment and cautious driving habits. For your safety and the safety of others, you must not overload your vehicle or trailer. Toyota warranties do not apply to damage or malfunction caused by towing a trailer for commercial purposes. Ask your local Toyota dealer for further details before towing.

**NOTICE**

*When towing a trailer, be sure to consult your Toyota dealer for further information on additional requirements such as a towing kit, etc.*

**WEIGHT LIMITS**

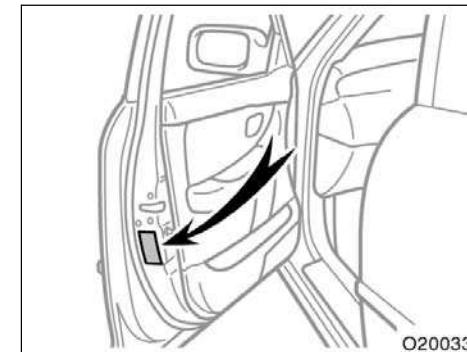
Before towing, make sure the total trailer weight, gross vehicle weight, gross axle weight and trailer tongue load are all within the limits.

The total trailer weight and tongue load can be measured with platform scales found at a highway weighing station, building supply company, trucking company, junk yard, etc.

**CAUTION**

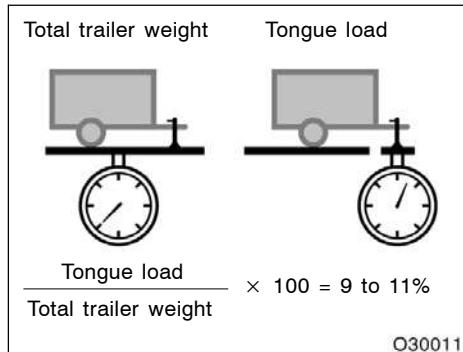
- The total trailer weight (trailer weight plus its cargo load) must not exceed 907 kg (2000 lb.). Exceeding this weight is dangerous.

- Trailer hitch assemblies have different weight capacities established by the hitch manufacturer. Even though the vehicle may be physically capable of towing a higher weight, the operator must determine the maximum weight rating of the particular hitch assembly and never exceed the maximum weight rating specified for the trailer-hitch. Exceeding the maximum weight rating set by the trailer hitch manufacturer can cause an accident resulting in serious personal injuries.



- The gross vehicle weight must not exceed the Gross Vehicle Weight Rating (GVWR) indicated on the Certification Label. The gross vehicle weight is the sum of weights of the unloaded vehicle, driver, passengers, luggage, hitch and trailer tongue load. It also includes the weight of any special equipment installed on your vehicle.

- The load on either the front or rear axle resulting from distribution of the gross vehicle weight on both axles must not exceed the Gross Axle Weight Rating (GAWR) listed on the Certification Label.



- The trailer cargo load should be distributed so that the tongue load is 9 to 11% of the total trailer weight, not exceeding the maximum of 90 kg (200 lb.). Never load the trailer with more weight in the back than in the front. About 60% of the trailer load should be in the front half of the trailer and the remaining 40% in the rear.

#### HITCHES

- Use only a hitch which is recommended by the hitch manufacturer and conforms to the total trailer weight requirement.
- Follow the directions supplied by the hitch manufacturer, and bolt the hitch securely to the rear bumper. Lubricate the hitch ball with a light coat of grease.
- Toyota recommends removing the trailer hitch whenever you are not towing a trailer to reduce the possibility of additional damage caused by the hitch if your vehicle is struck from behind. After removing the hitch, seal any mounting holes in the vehicle body to prevent entry of pollutants such as exhaust fumes, dirt, water, etc.

#### NOTICE

*Do not use axle-mounted hitches as they can cause damage to the axle housing, wheel bearings, wheels or tires. Also, never install a hitch which may interfere with the normal function of an Energy Absorbing Bumper.*

#### BRAKES AND SAFETY CHAINS

- Toyota recommends trailers with brakes that conform to any applicable federal and state/provincial regulations.
- A safety chain must always be used between the towing vehicle and the trailer. Leave sufficient slack in the chain for turns. The chain should cross under the trailer tongue to prevent the tongue from dropping to the ground in case it becomes damaged or separated. For correct safety chain procedures, follow the hitch or trailer manufacturer's recommendations.

#### CAUTION

- If the total trailer weight exceeds 453 kg (1000 lb.), trailer brakes are required.
- Never tap into your vehicle's hydraulic system as it would lower its braking effectiveness.

- Never tow a trailer without using a safety chain securely attached to both the trailer and the vehicle. If damage occurs to the coupling unit or hitch ball, there is danger of the trailer wandering over into another lane.

#### TIRES

- Ensure that your vehicle's tires are properly inflated. See Section 7-2 and Section 8 for instructions.
- The trailer tires should be inflated to the pressure recommended by the trailer manufacturer in respect to the total trailer weight.

#### TRAILER LIGHTS

- Trailer lights must comply with federal, state/provincial and local regulations. See your local recreational vehicle dealer or rental agency for the correct type of wiring and relays for your trailer. Check for correct operation of the turn signals and stop lights each time you hitch up. Direct splicing may damage your vehicle's electrical system and cause a malfunction of your lights.

#### BREAK-IN SCHEDULE

- Toyota recommends that you do not tow a trailer with a new vehicle or a vehicle with any new power train component (engine, transmission, differential, wheel bearing, etc.) for the first 800 km (500 miles) of driving.

#### MAINTENANCE

- If you tow a trailer, your vehicle will require more frequent maintenance due to the additional load. For this information, please refer to the scheduled maintenance information in the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".
- Retighten all fixing bolts of the towing ball and bracket after approximately 1000 km (600 miles) of trailer driving.

#### PRE-TOWING SAFETY CHECK

- Check that your vehicle remains level when a loaded or unloaded trailer is hitched. Do not drive if the vehicle has an abnormal nose-up or nose-down condition, and check for improper tongue load, overload, worn suspension or other possible causes.

- Make sure the trailer cargo is securely loaded so that it can not shift.
- Check that your rear view mirrors conform to any applicable federal, state/provincial or local regulations. If not, install the rear view mirrors required for towing purpose.

#### TRAILER TOWING TIPS

**When towing a trailer, your vehicle will handle differently than when not towing. The three main causes of vehicle-trailer accidents are driver error, excessive speed and improper trailer loading. Keep these in mind when towing:**

- Before starting out, check operation of the lights and all vehicle-trailer connections. After driving a short distance, stop and recheck the lights and connections. Before actually towing a trailer, practice turning, stopping and backing with a trailer in an area away from traffic until you learn the feel.

- Backing with a trailer is difficult and requires practice. Grip the bottom of the steering wheel and move your hand to the left to move the trailer to the left. Move your hand to the right to move the trailer to the right. (This procedure is generally opposite to that when backing without a trailer). Also, just turn the steering wheel a little at a time, avoiding sharp or prolonged turning. Have someone guide you when backing to reduce the risk of an accident.
- Because stopping distance may be increased, vehicle-to-vehicle distance should be increased when towing a trailer. For each 16 km/h (10 mph) of speed, allow at least one vehicle and trailer length between you and the vehicle ahead. Avoid sudden braking as you may skid, resulting in jackknifing and loss of control. This is especially true on wet or slippery surfaces.
- Avoid jerky starts or sudden acceleration.
- Avoid jerky steering and sharp turns. The trailer could hit your vehicle in a tight turn. Slow down before making a turn to avoid the necessity of sudden braking.
- Remember that when making a turn, the trailer wheels will be closer than the vehicle wheels to the inside of the turn. Therefore, compensate for this by making a larger than normal turning radius with your vehicle.
- Crosswinds and rough roads will adversely affect handling of your vehicle and trailer, causing sway. Pay attention to the rear from time to time to prepare yourself for being passed by large trucks or buses, which may cause your vehicle and trailer to sway. If swaying happens, firmly grip the steering wheel and reduce speed immediately but gradually. Never increase speed. Steer straight ahead. If you make no extreme correction with the steering or brakes, the vehicle and trailer will stabilize.

- Be careful when passing other vehicles. Passing requires considerable distance. After passing a vehicle, do not forget the length of your trailer and be sure you have plenty of room before changing lanes.
- In order to maintain engine braking efficiency do not use overdrive.
- Because of the added load of the trailer, your vehicle's engine may overheat on hot days (at temperatures over 30°C [85°F]) when going up a long or steep grade with a trailer. If the engine coolant temperature gauge indicates overheating, immediately turn off the air conditioning (if in use), pull off the road and stop in a safe spot. Refer to "If your vehicle overheats" in Section 4.
- Always place wheel blocks under both the vehicle and trailer wheels when parking. Apply the parking brake firmly. Put the transmission in "P". Avoid parking on a slope with a trailer, but if it cannot be avoided, do so only after performing the following:

1. Apply the brakes and hold.
2. Have someone place wheel blocks under both the vehicle and trailer wheels.
3. When the wheel blocks are in place, release your brakes slowly until the blocks absorb the load.
4. Apply the parking brake firmly.
5. Shift into "P" and turn off the engine.

When restarting out after parking on a slope:

1. With the transmission in "P" position, start the engine. Be sure to keep the brake pedal depressed.
2. Shift into the "2", "L" or "R" position.
3. Release the parking brake and brake pedal and slowly pull or back away from the wheel blocks. Stop and apply your brakes.
4. Have someone retrieve the blocks.

 **CAUTION**

- Do not exceed 72 km/h (45 mph) or the posted towing speed limit, whichever is lower. Because instability (swaying) of a towing vehicle-trailer combination usually increases as the speed increases, exceeding 72 km/h (45 mph) may cause loss of control.
- Slow down and downshift before descending steep or long downhill grades. Do not make sudden downshifts.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat and result in reduced braking efficiency.

## How to save fuel and make your vehicle last longer

Improving fuel economy is easy—just take it easy. It will help make your vehicle last longer, too. Here are some specific tips on how to save money on both fuel and repairs:

- **Keep your tires inflated at the correct pressure.** Underinflation causes tire wear and wastes fuel. See Section 7-2 for instructions.
- **Do not carry unneeded weight in your vehicle.** Excess weight puts a heavier load on the engine, causing greater fuel consumption.
- **Avoid lengthy warm-up idling.** Once the engine is running smoothly, begin driving—but gently. Remember, however, that on cold winter days this may take a little longer.
- **Keep the automatic transmission overdrive turned on when engine braking is not required.** Driving with the overdrive off will reduce the fuel economy. (For details, see “Automatic transmission” in Section 1-6.)
- **Accelerate slowly and smoothly.** Avoid jackrabbit starts.
- **Avoid long engine idling.** If you have a long wait and you are not in traffic, it is better to turn off the engine and start again later.
- **Avoid engine lugging or over-revving.** Use a gear position suitable for the road on which you are travelling.
- **Avoid continuous speeding up and slowing down.** Stop-and-go driving wastes fuel.
- **Avoid unnecessary stopping and braking.** Maintain a steady pace. Try to time the traffic signals so you only need to stop as little as possible or take advantage of through streets to avoid traffic lights. Keep a proper distance from other vehicles to avoid sudden braking. This will also reduce wear on your brakes.
- **Avoid heavy traffic or traffic jams whenever possible.**
- **Do not rest your foot on the brake pedal.** This causes premature wear, overheating and poor fuel economy.
- **Maintain a moderate speed on highways.** The faster you drive, the greater the fuel consumption. By reducing your speed, you will cut down on fuel consumption.
- **Keep the front wheels in proper alignment.** Avoid hitting the curb and slow down on rough roads. Improper alignment not only causes faster tire wear but also puts an extra load on the engine, which, in turn, wastes fuel.
- **Keep the bottom of your vehicle free from mud, etc.** This not only lessens weight but also helps prevent corrosion.
- **Keep your vehicle tuned-up and in top shape.** A dirty air cleaner, improper valve clearance, dirty plugs, dirty oil and grease, brakes not adjusted, etc. all lower engine performance and contribute to poor fuel economy. For longer life of all parts and lower operating costs, keep all maintenance work on schedule, and if you often drive under severe conditions, see that your vehicle receives more frequent maintenance. (For scheduled maintenance information, please refer to the “Scheduled Maintenance Guide” or “Owner’s Manual Supplement”.)

 **CAUTION**

Never turn off the engine to coast down hills. Your power steering and brake booster will not function without the engine running. Also, the emission control system operates properly only when the engine is running.

## **SECTION 4**

### **IN CASE OF AN EMERGENCY**

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**If your vehicle will not start—****(a) Simple checks**

Before making these checks, make sure you have followed the correct starting procedure given in "How to start the engine" in Section 3 and that you have sufficient fuel. If your vehicle is equipped with the engine immobiliser system, also check whether the other keys will start the engine. If they work, your key may be broken. Have the key checked at your Toyota dealer. If none of your keys work, the system is possibly broken. Call your Toyota dealer. (See "Keys (with engine immobiliser system)" in Section 1-2.)

**If the engine is not turning over or is turning over too slowly—**

1. Check that the battery terminals are tight and clean.
2. If the battery terminals are O.K., switch on the interior light.
3. If the light is out, dim or goes out when the starter is cranked, the battery is discharged. You may try jump starting. See "(c) Jump starting" for further instructions.

If the light is O.K., but the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop.

**NOTICE**

*Do not pull- or push-start the vehicle. It may damage the vehicle or cause a collision when the engine starts. Also the three-way catalytic converter may overheat and become a fire hazard.*

**If the engine turns over at its normal speed but will not start—**

1. The engine may be flooded because of repeated cranking. See "(b) Starting a flooded engine" for further instructions.
2. If the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop.

**(b) Starting a flooded engine**

**If the engine will not start, your engine may be flooded because of repeated cranking.**

If this happens, turn the key to "START" with the accelerator pedal held down. Keep the key and accelerator pedal in these positions for 15 seconds and release them. Then try starting the engine with your foot off the accelerator pedal.

If the engine does not start after 15 seconds of cranking, release the key, wait a few minutes and try again.

If the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop for assistance.

**NOTICE**

*Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.*

**(c) Jump starting**

To avoid serious personal injury and damage to your vehicle which might result from battery explosion, acid burns, electrical burns, or damaged electronic components, these instructions must be followed precisely.

If you are unsure about how to follow this procedure, we strongly recommend that you seek the help of a competent mechanic or towing service.

**CAUTION**

- Batteries contain sulfuric acid which is poisonous and corrosive. Wear protective safety glasses when jump starting, and avoid spilling acid on your skin, clothing, or vehicle.
- If you should accidentally get acid on yourself or in your eyes, remove any contaminated clothing and flush the affected area with water immediately. Then get immediate medical attention. If possible, continue to apply water with a sponge or cloth while en route to the medical office.

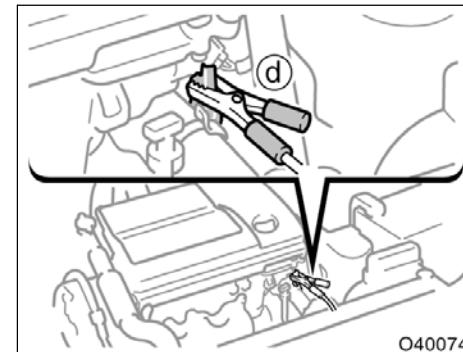
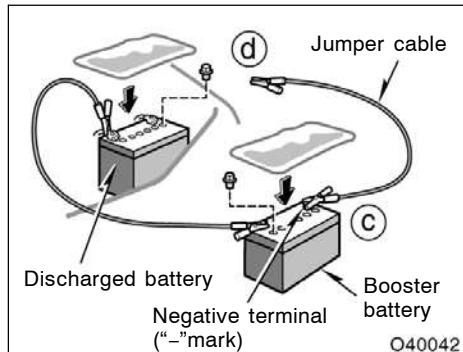
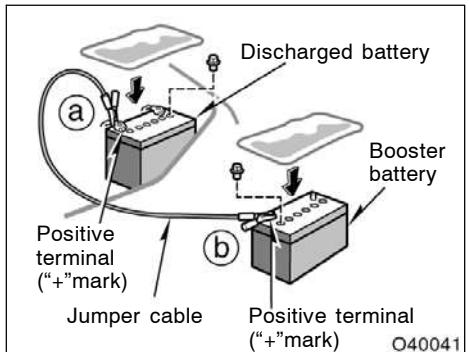
- The gas normally produced by a battery will explode if a flame or spark is brought near. Use only standardized jumper cables and do not smoke or light a match while jump starting.
- Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

**NOTICE**

*The battery used for boosting must be 12 V. Do not jump start unless you are sure that the booster battery is correct.*

**JUMP STARTING PROCEDURE**

1. If the booster battery is installed in another vehicle, make sure the vehicles are not touching. Turn off all unnecessary lights and accessories.
2. If required, remove all the vent plugs from the booster and discharged batteries. Lay a cloth over the open vents on the batteries. (This helps reduce the explosion hazard, personal injuries and burns.)
3. If the engine in the vehicle with the booster battery is not running, start it and let it run for a few minutes. During jump starting, run the engine at about 2000 rpm with the accelerator pedal lightly depressed.



4. Make the cable connections in the order a, b, c, d.

- Connect the clamp of the positive (red) jumper cable to the positive (+) terminal on the discharged battery.
- Connect the clamp at the other end of the positive (red) jumper cable to the positive (+) terminal on the booster battery.

- Connect the clamp of the negative (black) jumper cable to the negative (-) terminal on the booster battery.
- Connect the clamp at the other end of the negative (black) jumper cable to a solid, stationary, unpainted, metallic point of the vehicle with the discharged battery.

The recommended connecting point is shown in the following illustration:

**Connecting point**

Do not connect the cable to or near any part that moves when the engine is cranked.

**CAUTION**

When making the connections, to avoid serious injury, do not lean over the battery or accidentally let the jumper cables or clamps touch anything except the correct battery terminals or the ground.

5. Start your engine in the normal way. After starting, run it at about 2000 rpm for several minutes with the accelerator pedal lightly depressed.
6. Carefully disconnect the cables in the exact reverse order: the negative cable and then the positive cable.
7. Carefully dispose of the battery cover cloths—they may now contain sulfuric acid.
8. If removed, replace all the battery vent plugs.

If the cause of your battery discharging is not apparent (for example, lights left on), you should have it checked at your Toyota dealer.

### If your engine stalls while driving

If your engine stalls while driving...

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
2. Turn on your emergency flashers.
3. Try starting the engine again.

If the engine will not start, see "If your vehicle will not start" in this section.

#### CAUTION

If the engine is not running, the power assist for the brakes and steering will not work so steering and braking will be much harder than usual.

### If your vehicle overheats

If your engine coolant temperature gauge indicates overheating, if you experience a loss of power, or if you hear a loud knocking or pinging noise, the engine has probably overheated. You should follow this procedure...

1. Pull safely off the road, stop the vehicle and turn on your emergency flashers. Put the transmission in "P" and apply the parking brake. Turn off the air conditioning if it is being used.
2. If coolant or steam is boiling out of the radiator or reservoir, stop the engine. Wait until the steam subsides before opening the hood. If there is no coolant boiling over or steam, leave the engine running and make sure the electric cooling fan is operating. If it is not, turn the ignition off.

#### CAUTION

To help avoid personal injury, keep the hood closed until there is no steam. Escaping steam or coolant is a sign of very high pressure.

3. Look for obvious coolant leaks from the radiator, hoses, and under the vehicle. However, note that water draining from the air conditioning is normal if it has been used.

 **CAUTION**

**When the engine is running, keep hands and clothing away from the moving fan and engine drive belts.**

4. If the coolant is leaking, stop the engine immediately. Call a Toyota dealer for assistance.
5. If there are no obvious leaks, check the coolant reservoir. If it is dry, add coolant to the reservoir while the engine is running. Fill it about half full.

 **CAUTION**

**Do not attempt to remove the radiator cap when the engine and radiator are hot. Serious injury could result from scalding hot fluid and steam blown out under pressure.**

6. After the engine coolant temperature has cooled to normal, again check the coolant level in the reservoir. If necessary, bring it up to half full again. Serious coolant loss indicates a leak in the system. You should have it checked as soon as possible at your Toyota dealer.

**If you have a flat tire—**

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place well away from the traffic. Avoid stopping on the center divider of a highway. Park on a level spot with firm ground.
2. Stop the engine and turn on your emergency flashers.
3. Firmly set the parking brake and put the transmission in "P".
4. Have everyone get out of the vehicle on the side away from traffic.
5. Read the following instructions thoroughly.

 **CAUTION**

**When jacking, be sure to observe the following to reduce the possibility of personal injury:**

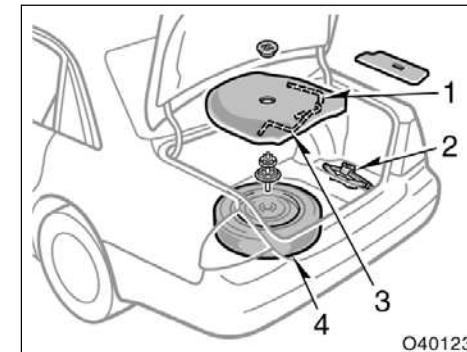
- **Follow jacking instructions.**
- **Do not put any part of your body under the vehicle supported by the jack. Otherwise, personal injury may occur.**
- **Do not start or run the engine while your vehicle is supported by the jack.**

- Stop the vehicle on a level firm ground, firmly set the parking brake and put the transmission in "P". Block the wheel diagonally opposite to the one being changed if necessary.
- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.
- Never get under the vehicle when the vehicle is supported by the jack alone.
- Use the jack only for lifting your vehicle during wheel changing.
- Do not raise the vehicle with someone in the vehicle.
- When raising the vehicle, do not put an object on or under the jack.
- Raise the vehicle only high enough to remove and change the tire.

**NOTICE**

*Do not continue driving with a deflated tire. Driving even a short distance can damage a tire and wheel beyond repair.*

**—Required tools and spare tire**

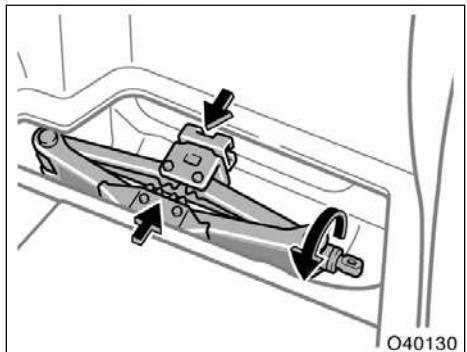


1. Get the required tools and spare tire.

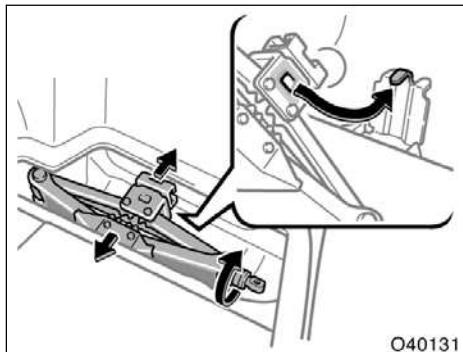
1. Wheel nut wrench
2. Jack
3. Jack handle
4. Spare tire

To prepare yourself for an emergency, you should familiarize yourself with the use of the jack, each of the tools and their storage locations.

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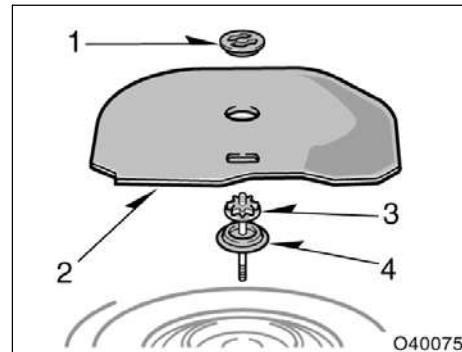


To remove the jack, turn the jack joint by hand until the jack becomes free.



To store the jack, align the hole of the jack head with the vehicle hook. Turn the jack joint until the jack base fits securely with the vehicle body.

This prevents the jack from flying forward during a collision or sudden stop.



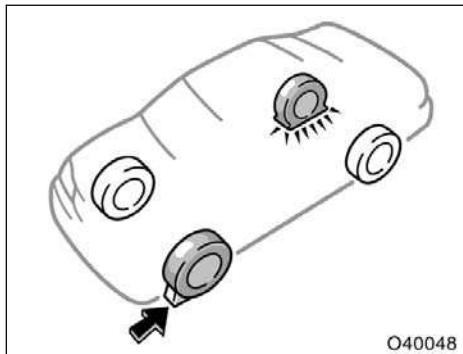
To remove the spare tire:

1. Loosen the nut and remove it.
2. Remove the spare tire cover.
3. Loosen the bolt and remove it.
4. Remove the spacer.

Then take the spare tire out of the vehicle.

When storing the spare tire, put it in place with the outer side of the wheel facing up. Then secure the tire by repeating the above removal steps in reverse order to prevent it from flying forward during a collision or sudden braking.

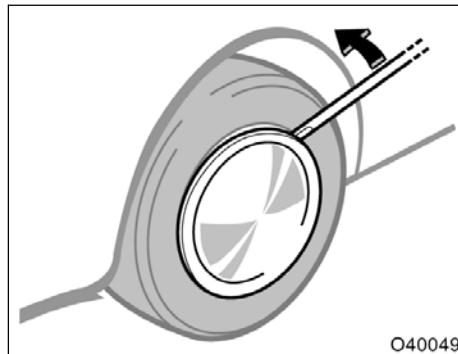
**—Blocking the wheel**



**2. Block the wheel diagonally opposite the flat tire to keep the vehicle from rolling when it is jacked up.**

When blocking the wheel, place a wheel block from the front for the front wheels or from the rear for the rear wheels.

**—Removing wheel ornament  
(steel wheels only)**



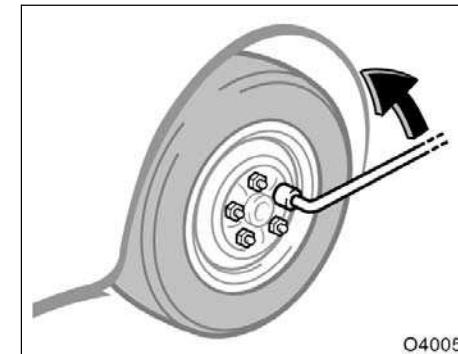
**3. Remove the wheel ornament.**

Pry off the wheel ornament, using the beveled end of the wheel nut wrench as shown.

**CAUTION**

**Do not try to pull off the ornament by hand. Take due care in handling the ornament to avoid unexpected personal injury.**

**—Loosening wheel nuts**



**4. Loosen all the wheel nuts.**

Always loosen the wheel nuts before raising the vehicle.

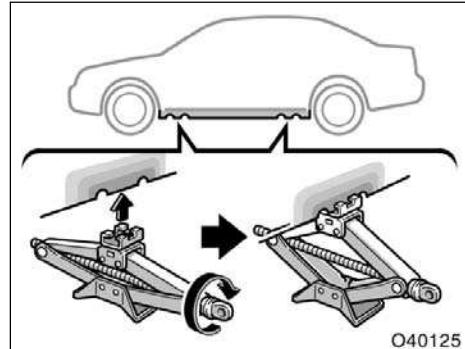
Turn the wheel nuts counterclockwise to loosen. To get maximum leverage, fit the wrench to the nut so that the handle is on the right side, as shown above. Grab the wrench near the end of the handle and pull up on the handle. Be careful that the wrench does not slip off the nut.

Do not remove the nuts yet—just unscrew them about one-half turn.

 **CAUTION**

Never use oil or grease on the bolts or nuts. The nuts may loose and the wheels may fall off, which could cause a serious accident.

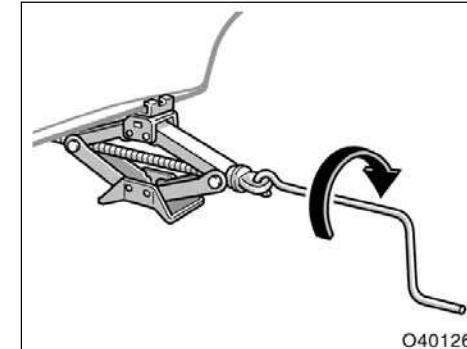
**—Positioning the jack**



5. Position the jack at the correct jack point as shown. Rotate the load rest 90° from storage position to lifting position.

Make sure the jack is positioned on a level and solid place.

**—Raising your vehicle**



6. After making sure that no one is in the vehicle, raise it high enough so that the spare tire can be installed.

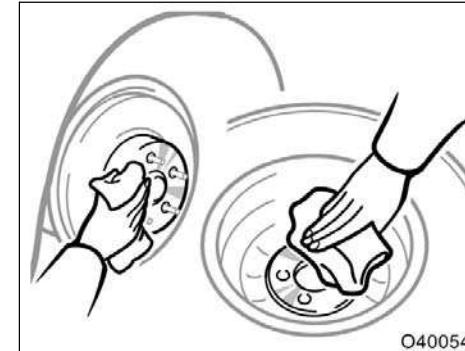
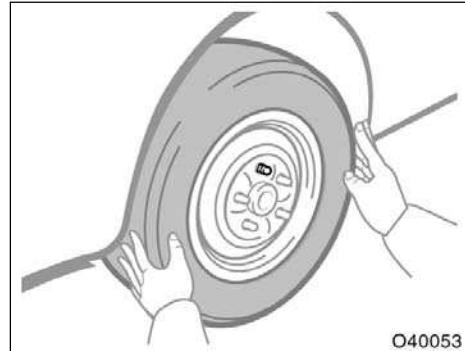
Remember you will need more ground clearance when putting on the spare tire than when removing the flat tire.

To raise the vehicle, insert the jack handle into the jack (it is a loose fit) and turn it clockwise. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.

 **CAUTION**

Never get under the vehicle when the vehicle is supported by the jack alone.

**—Changing wheels**



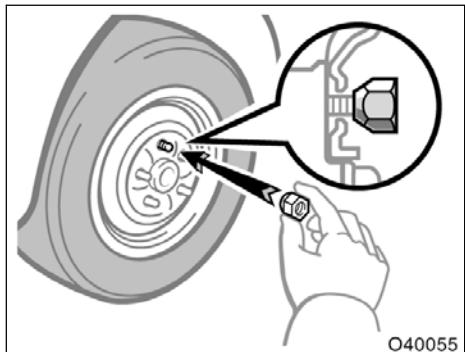
**7. Remove the wheel nuts and change tires.**

Lift the flat tire straight off and put it aside.

Roll the spare wheel into position and align the holes in the wheel with the bolts. Then lift up the wheel and get at least the top bolt started through its hole. Wiggle the tire and press it back over the other bolts.

Before putting on wheels, remove any corrosion on the mounting surfaces with a wire brush or such. Installation of wheels without good metal-to-metal contact at the mounting surface can cause wheel nuts to loosen and eventually cause a wheel to come off while driving.

—Reinstalling wheel nuts

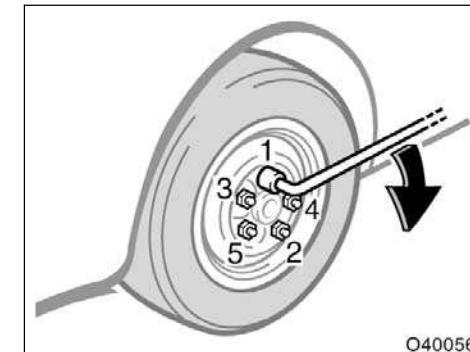


8. Reinstall all the wheel nuts finger tight.

Reinstall the wheel nuts (tapered end inward) and tighten them as much as you can by hand. Press back on the tire and see if you can tighten them more.



—Lowering your vehicle



9. Lower the vehicle completely and tighten the wheel nuts.

Turn the jack handle counterclockwise to lower the vehicle.

Use only the wheel nut wrench and turn it clockwise to tighten the nuts. Do not use other tools or any additional leverage other than your hands, such as a hammer, pipe or your foot. Make sure the wrench is securely engaged over the nut.

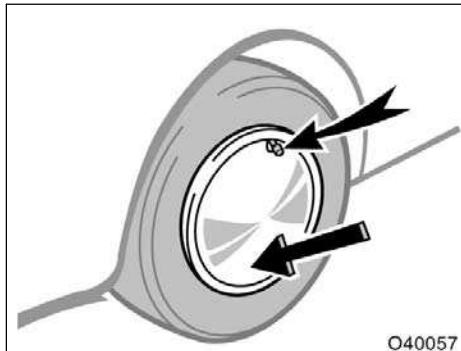
Tighten each nut a little at a time in the order shown. Repeat the process until all the nuts are tight.



**CAUTION**

- When lowering the vehicle, make sure all portions of your body and all other persons around will not be injured as the vehicle is lowered to the ground.
- Have the wheel nuts tightened by torque wrench at 103 N·m (10.5 kgf·m, 76 ft-lbf), as soon as possible after changing wheels. Otherwise, the nuts may loosen and the wheels may fall off, which could cause a serious accident.

**—Reinstalling wheel ornament  
(steel wheels only)**



**10. Reinstall the wheel ornament.**

Align the cutout of the wheel ornament with the valve stem as shown. Then tap it firmly with the side or heel of your hand to snap it into place.



**CAUTION**

Take due care in handling the ornament to avoid unexpected personal injury.

**—After changing wheels**

**11. Check the air pressure of the replaced tire.**

Adjust the air pressure to the specification designated in Section 8. If the pressure is lower, drive slowly to the nearest service station and fill to the correct pressure.

Do not forget to reinstall the tire inflation valve cap as dirt and moisture could get into the valve core and possibly cause air leakage. If the cap is missing, have a new one put on as soon as possible.

**12. Restow all the tools, jack and flat tire securely.**

As soon after changing wheels as possible, tighten the wheel nuts to the torque specified in Section 8 with a torque wrench. Have a technician repair the flat tire and replace the spare tire with it.

 **CAUTION**

Before driving, make sure all the tools, jack and flat tire are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.

**If your vehicle becomes stuck**

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward.

If your vehicle is equipped with the traction control system, turn off the system to become unstuck. (For details, see "Traction control system" in Section 1-6.)

 **CAUTION**

Do not attempt to rock the vehicle free by moving it forward and backward if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

**NOTICE**

*If you rock your vehicle, observe the following precautions to prevent damage to the transmission and other parts.*

- ◆ *Do not depress the accelerator pedal while shifting the selector lever or before the transmission is completely shifted to forward or reverse gear.*
- ◆ *Do not race the engine and avoid spinning the wheels.*
- ◆ *If your vehicle remains stuck after rocking the vehicle several times, consider other ways such as towing.*

**If your vehicle needs to be towed—**

(a) Towing with wheel lift type truck—

—From front



—From rear



(b) Using flat bed truck



If towing is necessary, we recommend you to have it done by your Toyota dealer or a commercial tow truck service. In consultation with them, have your vehicle towed using either (a) or (b).

Only when you cannot receive a towing service from a Toyota dealer or commercial tow truck service, tow your vehicle carefully in accordance with the instructions given in “—Emergency towing” in this section.

Proper equipment will help ensure that your vehicle is not damaged while being towed. Commercial operators are generally aware of the state/provincial and local laws pertaining to towing.

Your vehicle can be damaged if it is towed incorrectly. Although most operators know the correct procedure, it is possible to make a mistake. To avoid damage to your vehicle, make sure the following precautions are observed. If necessary, show this page to the tow truck driver.

**TOWING PRECAUTIONS:**

Use a safety chain system for all towing, and abide by the state/provincial and local laws. The wheels and axle on the ground must be in good condition. If they are damaged, use a towing dolly.

**(a) Towing with wheel lift type truck**

**From front**—Release the parking brake.

**NOTICE**

*When lifting wheels, take care to ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Otherwise, the bumper and/or underbody of the towed vehicle will be damaged during towing.*

**From rear**—Use a towing dolly under the front wheels.

**NOTICE**

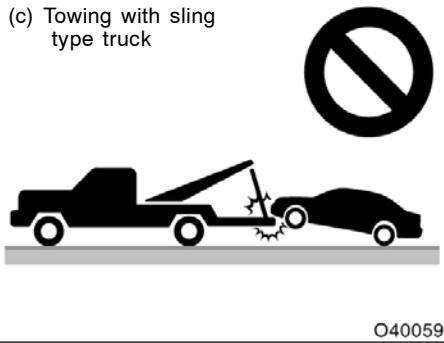
*Never tow from the rear with the front wheels on the ground, as this may cause serious damage to the transmission.*

**(b) Using flat bed truck**

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—Emergency towing

(c) Towing with sling type truck

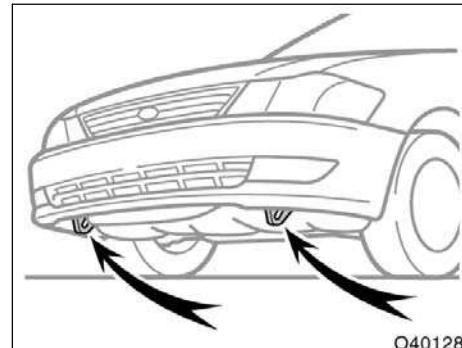


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(c) Towing with sling type truck

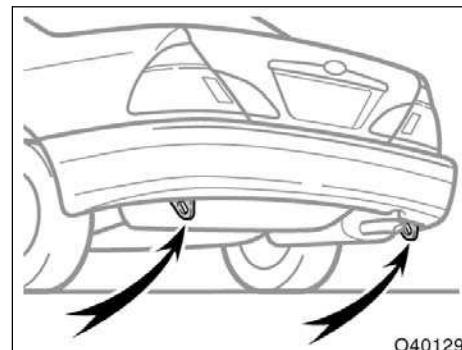
**NOTICE**

*Do not tow with sling type truck, either from the front or rear. This may cause body damage.*



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Front



O40129

Rear (on some models)

If towing is necessary, we recommend you to have it done by your Toyota dealer or a commercial tow truck service.

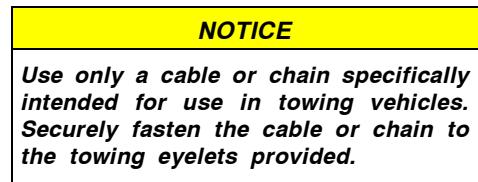
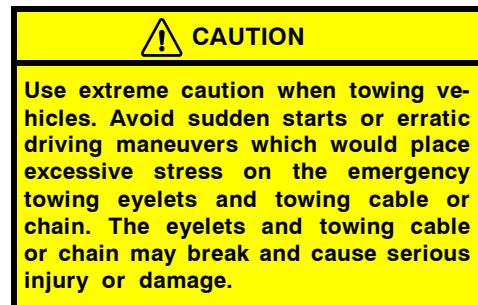
If towing service is not available in an emergency, your vehicle may be temporarily towed by a cable or chain secured to one of the emergency towing eyelets under the vehicle. Use extreme caution when towing vehicles.

**NOTICE**

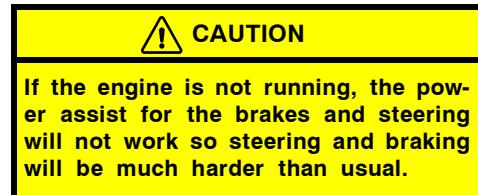
*Only use specified towing eyelet; otherwise your vehicle may be damaged.*

A driver must be in the vehicle to steer it and operate the brakes.

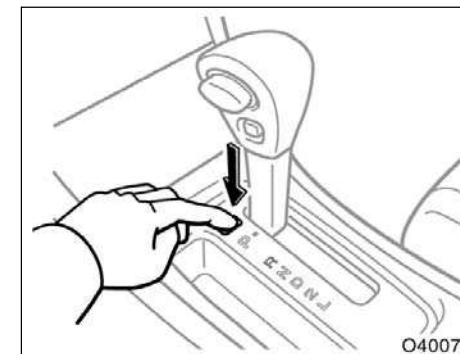
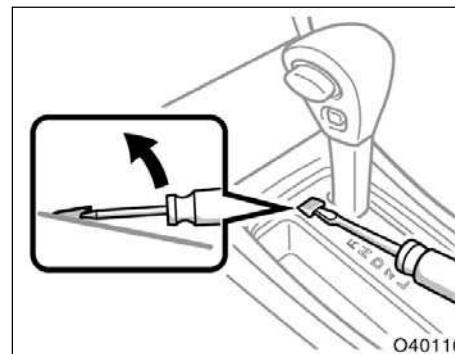
Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must all be in good condition.



Before towing, release the parking brake and put the transmission in "N". The key must be in "ACC" (engine off) or "ON" (engine running).



**If you cannot shift automatic transmission selector lever (floor shift type)**



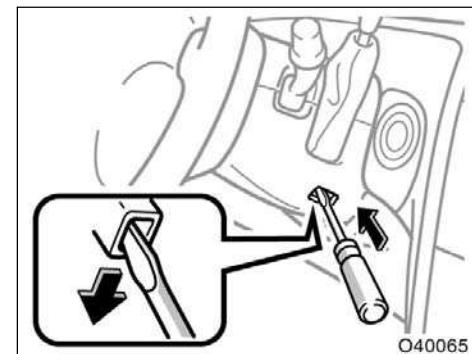
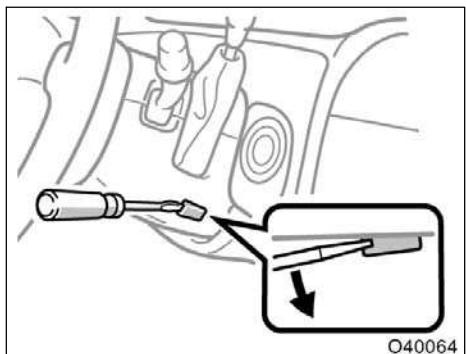
If you cannot shift the selector lever out of "P" position to other positions even though the brake pedal is depressed, use the shift lock override button as follows:

1. Turn the ignition key to "LOCK" position. Make sure the parking brake is applied.
2. Pry up the cover with a flat-bladed screwdriver or equivalent.

3. Insert your finger into the hole to push down the shift lock override button. You can shift out of "P" position only while pushing the button.
4. Shift into "N" position.
5. Insert the cover.
6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Toyota dealer as soon as possible.

**If you cannot shift automatic transmission selector lever (column shift type)**



If you cannot shift the selector lever out of "P" position to other positions even though the brake pedal is depressed, use the shift lock override button as follows:

1. Turn the ignition key to "LOCK" position. Make sure the parking brake is applied.
2. Pry up the cover with a flat-bladed screwdriver or equivalent.

3. Insert the screwdriver or equivalent into the hole to pull down the shift lock override button. You can shift out of "P" position only while pushing the button.
4. Shift into "N" position.
5. Insert the cover.
6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Toyota dealer as soon as possible.

**If you lose your keys**

You can purchase a new key at your Toyota dealer if you can give them the key number. If your vehicle is equipped with the engine immobiliser system, the dealer will also need your master key.

Vehicles with engine immobiliser system—Even if you lose only one key, contact your Toyota dealer to make a new key. If you lose all your master keys, you cannot make new keys; the whole engine immobiliser system must be replaced.

See the suggestion given in "Keys" in Section 1-2.

If your keys are locked in the vehicle and you cannot get a duplicate, many Toyota dealers can still open the door for you, using their special tools. If you must break a window to get in, we suggest breaking the smallest side window because it is the least expensive to replace. Be extremely cautious to avoid cuts from the glass.

**If you lose your wireless  
remote control transmitter**

**You can purchase a new wireless re-  
mote control transmitter at your Toyota  
dealer.**

Have the registered identification numbers of your transmitters deleted from your vehicle by your Toyota dealer as soon as possible to avoid the possibility of theft or an accident. Then, have the identification number of your new transmitter registered. At the same time, you must bring all of the remaining transmitters to have them registered again as well.

You can use the wireless remote control system with the new transmitter. Contact your Toyota dealer for detailed information.

**'03 AVALON U (L/O 0206)**

## ***SECTION 5***

### **CORROSION PREVENTION AND APPEARANCE CARE**

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## Protecting your Toyota from corrosion

Toyota, through its diligent research, design and use of the most advanced technology available, has done its part to help prevent corrosion and has provided you with the finest quality vehicle construction. Now, it is up to you. Proper care of your Toyota can help ensure long-term corrosion prevention.

### The most common causes of corrosion to your vehicle are:

- The accumulation of road salt, dirt and moisture in hard-to-reach areas under the vehicle.
- Chipping of paint, or undercoating caused by minor accidents or by stones and gravel.

Care is especially important if you live in particular areas or operate your vehicle under certain environmental conditions:

- Road salt or dust control chemicals will accelerate corrosion, as will the presence of salt in the air near the sea-coast or in areas of industrial pollution.
- High humidity accelerates corrosion especially when temperatures range just above the freezing point.

- Wetness or dampness to certain parts of your vehicle for an extended period of time, may cause corrosion even though other parts of the vehicle may be dry.
- High ambient temperatures can cause corrosion to those components of the vehicle which are prevented from quick-drying due to lack of proper ventilation.

The above signifies the necessity to keep your vehicle, particularly the underside, as clean as possible and to repair any damage to paint or protective coatings as soon as possible.

### To help prevent corrosion on your Toyota, follow these guidelines:

**Wash your vehicle frequently.** It is, of course, necessary to keep your vehicle clean by regular washing, but to prevent corrosion, the following points should be observed:

- If you drive on salted roads in the winter or if you live near the ocean, you should hose off the undercarriage at least once a month to minimize corrosion.

- High pressure water or steam is effective for cleaning the vehicle's underside and wheel housings. Pay particular attention to these areas as it is difficult to see all the mud and dirt. It will do more harm than good to simply wet the mud and debris without removing them. The lower edge of doors, rocker panels and frame members have drain holes which should not be allowed to clog with dirt as trapped water in these areas can cause corrosion.

- Wash the underside of the vehicle thoroughly when winter is over.

See "Washing and waxing your Toyota" for more tips.

**Check the condition of your vehicle's paint and trim.** If you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through the bare metal, have a qualified body shop make the repair.

**Check the interior of your vehicle.** Water and dirt can accumulate under the floor mats and could cause corrosion. Occasionally check under the mats to make sure the area is dry. Be particularly careful when transporting chemicals, cleansers, fertilizers, salt, etc.; these should be transported in proper containers. If a spill or leak should occur, immediately clean and dry the area.

**Use mud shields on your wheels.** If you drive on salted or gravel roads, mud shields help protect your vehicle. Full-size shields, which come as near to the ground as possible, are the best. We recommend that the fittings and the area where the shields are installed be treated to resist corrosion. Your Toyota dealer will be happy to assist in supplying and installing the shields if they are recommended for your area.

**Keep your vehicle in a well ventilated garage or a roofed place. Do not park your vehicle in a damp, poorly ventilated garage.** If you wash your vehicle in the garage, or if you drive it in covered with water or snow, your garage may be so damp it will cause corrosion. Even if your garage is heated, a wet vehicle can corrode if the ventilation is poor.

## Washing and waxing your Toyota

### Washing your Toyota

#### Keep your vehicle clean by regular washing.

The following cases may cause weakness to the paint or corrosion to the body and parts. Wash your vehicle as soon as possible.

- When driving in a coastal area
- When driving on a road sprinkled with antifreeze
- When having coal tar, tree sap, bird droppings and carcass of an insect
- When driving in the areas where there is a lot of smoke, soot, dust, iron dust and chemical substance
- When the vehicle becomes remarkably dirty with dust and mud

### Hand-washing your Toyota

Work in the shade and wait until the vehicle body is not hot to the touch.

#### CAUTION

When cleaning under floor or chassis, be careful not to injure your hands.

1. Rinse off loose dirt with a hose. Remove any mud or road salt from the underside of the vehicle or in the wheel wells.

2. Wash with a mild car-wash soap, mixed according to the manufacturer's instructions. Use a soft cotton mitt and keep it wet by dipping it frequently into the wash water. Do not rub hard—let the soap and water remove the dirt.

**Plastic wheel ornaments:** The plastic wheel ornaments are damaged easily by organic substances. If any organic substances splashes an ornament, be sure to wash it off with water and check if the ornament is damaged.

#### CAUTION

Do not attach the heavily damaged plastic wheel ornament. It may fly off the wheel and cause accidents while the vehicle is moving.

**Aluminum wheels:** Use only a mild soap or neutral detergent.

**Plastic bumpers:** Wash carefully. Do not scrub with abrasive cleaners. The bumper faces are soft.

Road tar: Remove with turpentine or cleaners that are marked safe for painted surfaces.

**NOTICE**

***Do not use organic substances (gasoline, kerosene, benzine or strong solvents), which may be toxic or cause damage.***

3. Rinse thoroughly—dried soap can cause streaking. In hot weather you may need to rinse each section right after you wash it.
4. To prevent water spots, dry the vehicle using a clean soft cotton towel. Do not rub or press hard—you might scratch the paint.

**Automatic car wash**

Your vehicle may be washed in an automatic car wash, but remember that the paint can be scratched by some type of brushes, unfiltered washing water, or the washing process itself. Scratching reduces paint durability and gloss, especially on darker colors. The manager of the car wash should be able to advise you whether the process is safe for the paint on your vehicle.

**Waxing your Toyota**

**Polishing and waxing is recommended to maintain the original beauty of your Toyota's finish.**

Once a month or if the vehicle surface does not repel water well, apply wax.

1. Always wash and dry the vehicle before you begin waxing, even if you are using a combined cleaner and wax.
2. Use a good quality polish and wax. If the finish has become extremely weathered, use a car-cleaning polish, followed by a separate wax. Carefully follow the manufacturer's instructions and precautions. Be sure to polish and wax the chrome trim as well as the paint.
3. Wax the vehicle again when water does not bead but remains on the surface in large patches.

**NOTICE**

***Always remove the plastic bumpers if your vehicle is re-painted and placed in a high heat paint waxing booth. High temperatures could damage the bumpers.***

**Cleaning the interior**

**! CAUTION**

- Be careful not to splash water or spill liquid on the floor. This may prevent the side airbags from activating correctly, resulting in serious injury.
- Do not wash the vehicle floor with water, or allow water to get onto the floor when cleaning the vehicle interior or exterior. Water may get into audio components or other electrical components above or under the floor carpet (or mat) and cause a malfunction; and it may cause body corrosion.

**Vinyl interior**

The vinyl upholstery may be easily cleaned with a mild soap or detergent and water.

First vacuum over the upholstery to remove loose dirt. Then, using a sponge or soft cloth, apply the soap solution to the vinyl. After allowing it to soak in for a few minutes to loosen the dirt, remove the dirt and wipe off the soap with a clean damp cloth. If all the dirt do not come off, repeat the procedure. Commercial foaming-type vinyl cleaners are also available which work well. Follow the manufacturer's instructions.

#### NOTICE

*Do not use solvent, thinner, gasoline or window cleaner on the interior.*

#### Carpets

Use a good foam-type shampoo to clean the carpets.

Begin by vacuuming thoroughly to remove as much dirt as possible. Several types of foam cleaners are available; some are in aerosol cans and others are powders or liquids which you mix with water to produce a foam. To shampoo the carpets, use a sponge or brush to apply the foam. Rub in overlapping circles.

Do not apply water—the best results are obtained by keeping the carpet as dry as possible. Read the shampoo instructions and follow them closely.

#### Seat belts

**The seat belts may be cleaned with mild soap and water or with lukewarm water.**

Use a cloth or sponge. As you are cleaning, check the belts for excessive wear, fraying, or cuts.

#### NOTICE

- ◆ *Do not use dye or bleach on the belts—it may weaken them.*
- ◆ *Do not use the belts until they become dry.*

#### Windows

The windows may be cleaned with any household window cleaner.

#### NOTICE

*When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires or connectors.*

**Air conditioning control panel, car audio, instrument panel, console panel, and switches**

#### Use a soft damp cloth for cleaning.

Soak a clean soft cloth in water or lukewarm water then lightly wipe off dirt.

#### NOTICE

- ◆ *Do not use organic substances (solvents, kerosene, alcohol, gasoline, etc.) or alkaline or acidic solutions. These chemicals can cause discoloring, staining or peeling of the surface.*
- ◆ *If you use cleaners or polishing agents, make sure their ingredients do not include the substances mentioned above.*
- ◆ *If you use a liquid car freshener, do not spill the liquid onto the vehicle's interior surfaces. It may contain the ingredients mentioned above. Immediately clean any spill using the method mentioned above.*

#### Leather Interior

The leather upholstery may be cleaned with neutral detergent for wool.

Remove dirt using a soft cloth dampened with 5% solution of neutral detergent for wool. Then thoroughly wipe off all traces of detergent with a clean damp cloth.

After cleaning or whenever any part of the leather gets wet, dry with a soft clean cloth. Allow the leather to dry in a ventilated shaded area.

#### NOTICE

- ◆ If a stain should fail to come out with a neutral detergent, apply a cleaner that does not contain an organic solvent.
- ◆ Never use organic substances such as benzine, alcohol or gasoline, or alkaline or acid solutions for cleaning the leather as these could cause discoloring.
- ◆ Use of a nylon brush or synthetic fiber cloth, etc. may scratch the fine grained surface of the leather.

◆ Mildew may develop on soiled leather upholstery. Be especially careful to avoid oil spots. Try to keep your upholstery always clean.

◆ Long exposure to direct sunlight may cause the leather surface to harden and shrink. Keep your vehicle in a shaded area, especially in the summer.

◆ The interior of your vehicle is apt to heat up on hot summer days, so avoid placing on the upholstery items made of vinyl or plastic or containing wax as these tend to stick to leather when warm.

◆ Improper cleaning of the leather upholstery could result in discoloration or staining.

If you have any questions about the cleaning of your Toyota, your local Toyota dealer will be pleased to answer them.

## ***SECTION 6***

### **VEHICLE MAINTENANCE AND CARE**

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For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

## Maintenance requirements

Your Toyota vehicle has been designed for fewer maintenance requirements with longer service intervals to save both your time and money. However, each regular maintenance, as well as day-to-day care, is more important than ever before to ensure smooth, and trouble-free, safe, and economical drivings.

It is the owner's responsibility to make sure the specified maintenance, including general maintenance service, is performed. Note that both the new vehicle and emission control system warranties specify that proper maintenance and care must be performed. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for complete warranty information.

### General maintenance

General maintenance items are those day-to-day care practices that are important to your vehicle for proper operation. It is the owner's responsibility to insure that the general maintenance items are performed regularly.

These checks or inspections can be done either by yourself or a qualified technician, or if you prefer, your Toyota dealer will be pleased to do them at a nominal cost.

### Scheduled maintenance

The scheduled maintenance items listed in the "Scheduled Maintenance Guide" or "Owner's Manual Supplement" are those required to be serviced at regular intervals.

For details of your maintenance schedule, read the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

**It is recommended that any replacement parts used for maintenance or for the repair of the emission control system be Toyota supplied.**

**The owner may elect to use non-Toyota supplied parts for replacement purposes without invalidating the emission control system warranty. However, use of replacement parts which are not of equivalent quality may impair the effectiveness of the emission control systems.**

You may also elect to have maintenance, replacement, or repair of the emission control devices and system performed by any automotive repair establishment or individual without invalidating this warranty. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for complete warranty information.

### Where to go for service?

Toyota technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They learn to work on Toyotas before they work on your vehicle, rather than while they are working on it.

You can be confident that your Toyota dealer's service department performs the best job to meet the maintenance requirements on your vehicle—reliably and economically.

Your copy of the repair order is proof that all required maintenance has been performed for warranty coverage. And if any problems should arise with your vehicle while under warranty, your Toyota dealer will promptly take care of it. Again, be sure to keep a copy of the repair order for any service performed on your Toyota.

### What about do-it-yourself maintenance?

Many of the maintenance items are easy to do yourself if you have a little mechanical ability and a few basic automotive tools. Simple instructions for how to perform them are presented in Section 7.

If you are a skilled do-it-yourself mechanic, the Toyota service manuals are recommended. Please be aware that do-it-yourself maintenance can affect your warranty coverage. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for the details.

### General maintenance

Listed below are the general maintenance items that should be performed as frequently as specified. In addition to checking the items listed, if you notice any unusual noise, smell or vibration, you should investigate the cause or take your vehicle to your Toyota dealer or a qualified service shop immediately. It is recommended that any problem you notice be brought to the attention of your dealer or the qualified service shop for their advice.

#### CAUTION

Make these checks only where adequate ventilation can be obtained if you run the engine.

#### OUTSIDE THE VEHICLE

Items listed below should be performed from time to time, unless otherwise specified.

##### Tire pressure

Check the pressure with a gauge every two weeks, or at least once a month. See Section 7-2 for additional information.

#### Tire surface and wheel nuts

Check the tires carefully for cuts, damage or excessive wear. See Section 7-2 for additional information. When checking the tires, make sure no nuts are missing, and check the nuts for looseness. Tighten them if necessary.

#### Tire rotation

Rotate the tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".) See Section 7-2 for additional information.

#### Fluid leaks

Check underneath for leaking fuel, oil, water or other fluid after the vehicle has been parked for a while. If you smell fuel fumes or notice any leak, have the cause found and corrected immediately.

#### Doors and engine hood

Check that all doors including trunk lid operate smoothly and all latches lock securely. Make sure the engine hood secondary latch secures the hood from opening when the primary latch is released.

#### INSIDE THE VEHICLE

Items listed below should be checked regularly, e.g. while performing periodic services, cleaning the vehicle, etc.

##### Lights

Make sure the headlights, stop lights, tail lights, turn signal lights, and other lights are all working. Check headlight aim.

##### Service reminder indicators and warning buzzers

Check that all service reminder indicators and warning buzzers function properly.

##### Steering wheel

Check that it has the specified free play. Be alert for changes in steering condition, such as hard steering or strange noise.

##### Seats

Check that all front seat controls such as seat adjusters, seatback recliner, etc. operate smoothly and that all latches lock securely in any position. Check that the head restraints move up and down smoothly and that the locks hold securely in any latched position.

##### Seat belts

Check that the seat belt system such as buckles, retractors and anchors operate properly and smoothly. Make sure the belt webbing is not cut, frayed, worn or damaged.

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##### Accelerator pedal

Check the pedal for smooth operation and uneven pedal effort or catching.

##### Brake pedal

Check the pedal for smooth operation and that the pedal has the proper clearance. Check the brake booster function.

##### Brakes

At a safe place, check that the brakes do not pull to one side when applied.

##### Parking brake

Check that the pedal has the proper travel and that, on a safe incline, your vehicle is held securely with only the parking brake applied.

##### Automatic transmission "Park" mechanism

Check the lock release button of the selector lever for proper and smooth operation. On a safe incline, check that your vehicle is held securely with the selector lever in "P" position and all brakes released.

#### IN THE ENGINE COMPARTMENT

Items listed below should be checked from time to time, e.g. each time when refueling.

##### Washer fluid

Make sure there is sufficient fluid in the tank. See Section 7-3 for additional information.

##### Engine coolant level

Make sure the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir when the engine is cold. See Section 7-2 for additional information.

##### Radiator, condenser and hoses

Check that the front of the radiator and condenser are clean and not blocked with leaves, dirt, or insects. See in Section 7-2 for additional information.

##### Battery condition

Check the battery condition by the indicator color. See Section 7-3 for additional information.

##### Brake fluid level

Make sure the brake fluid level is correct. See Section 7-2 for additional information.

**Engine oil level**

Check the level on the dipstick with the engine turned off and the vehicle parked on a level spot. See Section 7-2 for additional information.

**Power steering fluid level**

Check the level through the reservoir. The level should be in the "HOT" or "COLD" range depending on the fluid temperature. See Section 7-2 for additional information.

**Exhaust system**

If you notice any change in the sound of the exhaust or smell exhaust fumes, have the cause located and corrected immediately. (See "Engine exhaust cautions" in Section 2.)

**Does your vehicle need repairing?**

Be on the alert for changes in performance, sounds, and visual tip-offs that indicate service is needed. Some important clues are as follows:

- Engine missing, stumbling, or pinging
- Appreciable loss of power
- Strange engine noises
- A leak under the vehicle (however, water dripping from the air conditioning after use is normal.)
- Change in exhaust sound (This may indicate a dangerous carbon monoxide leak. Drive with the windows open and have the exhaust system checked immediately.)
- Flat-looking tire; excessive tire squeal when cornering; uneven tire wear
- Vehicle pulls to one side when driving straight on a level road
- Strange noises related to suspension movement
- Loss of brake effectiveness; spongy feeling brake; pedal almost touches floor; vehicle pulls to one side when braking
- Engine coolant temperature continually higher than normal

If you notice any of these clues, take your vehicle to your Toyota dealer as soon as possible. It probably needs adjustment or repair.

**CAUTION**

**Do not continue driving with the vehicle unchecked. It could result in serious vehicle damage and possibly personal injury.**

### **Emissions Inspection and Maintenance (I/M) programs**

Some states have vehicle emission inspection programs which include OBD (On-Board Diagnostics) checks.

The OBD system monitors the operation of the emission control system. When the OBD system determines that a problem exists somewhere in the emission control system, the malfunction indicator lamp comes on. In this case, your vehicle may not pass the I/M test and need to be repaired. Contact your Toyota dealer to service the vehicle.

Even if the malfunction indicator lamp does not come on, your vehicle may not pass the I/M test as readiness codes have not been set in the OBD system.

Readiness codes are automatically set during ordinary driving. However, when the battery is disconnected or run down, the codes are erased. Also, depending on your driving habits, the codes may not be completely set.

Also, if the malfunction indicator lamp had come on recently due to temporary malfunction such as a loose fuel tank cap, your vehicle may not pass the I/M test.

The malfunction indicator lamp will go off after taking several driving trips, but the error code in the OBD system will not be cleared unless about 40 trips or more are taken.

If your vehicle does not pass the I/M test even the malfunction indicator lamp does not come on, contact your Toyota dealer to prepare the vehicle for re-testing.

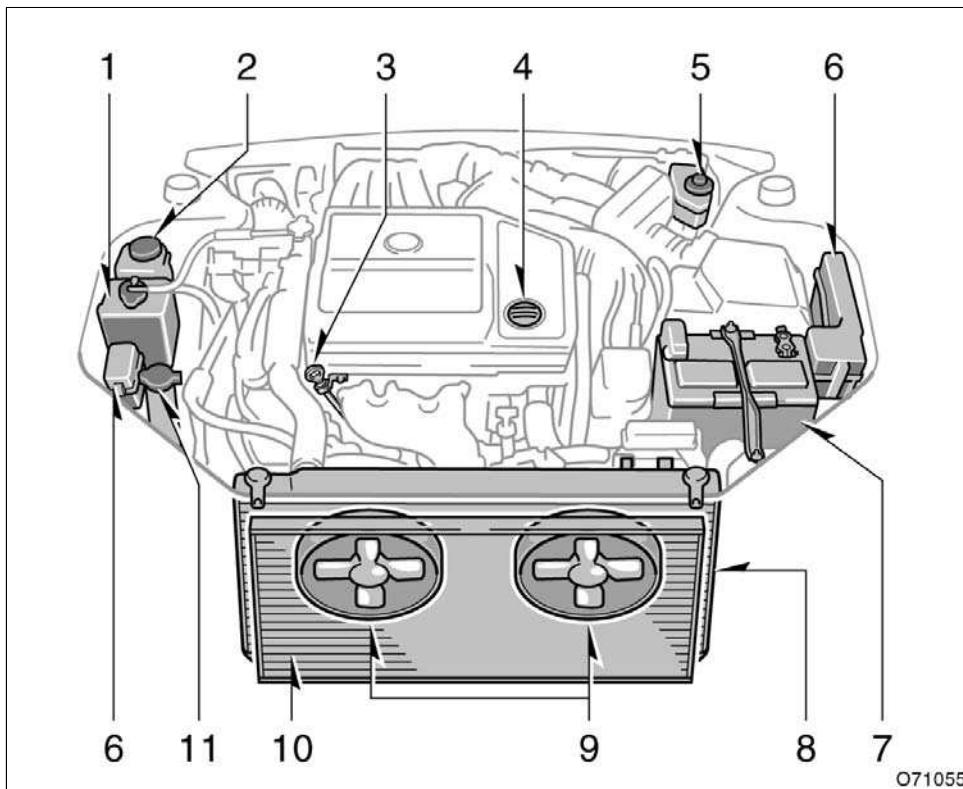
## ***SECTION 7-1***

### **DO-IT-YOURSELF MAINTENANCE**

#### **Introduction**

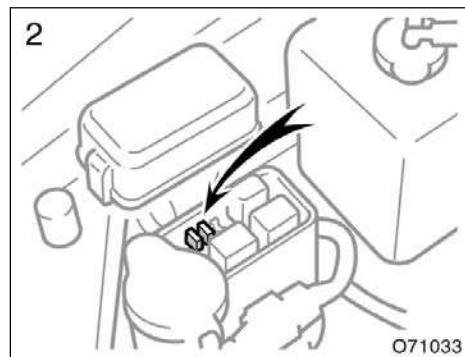
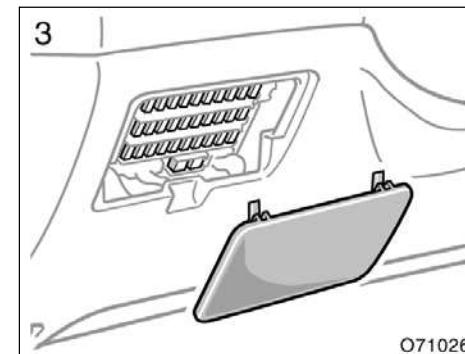
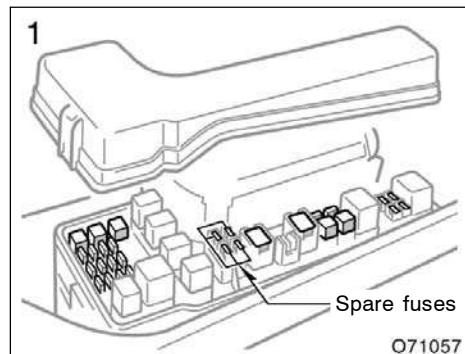
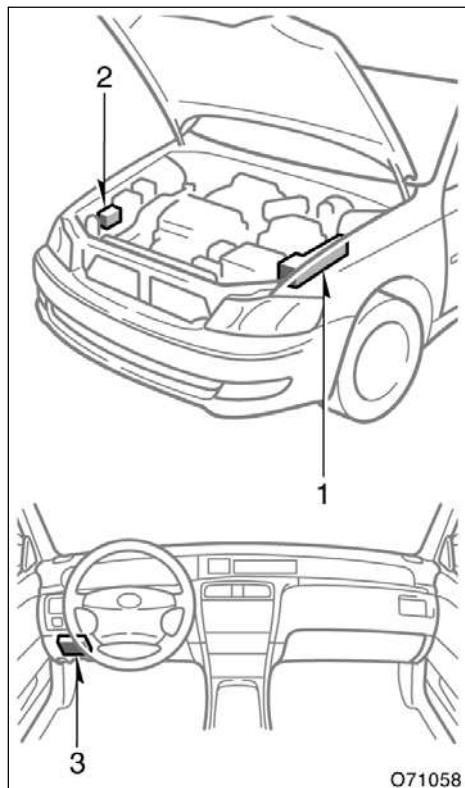
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**Engine compartment overview**



1. Engine coolant reservoir
2. Power steering fluid reservoir
3. Engine oil level dipstick
4. Engine oil filler cap
5. Brake fluid reservoir
6. Fuse blocks
7. Battery
8. Radiator
9. Electric cooling fans
10. Condenser
11. Windshield washer fluid tank

**Fuse locations**



## Do-it-yourself service precautions

If you perform maintenance by yourself, be sure to follow the correct procedure given in this section.

You should be aware that improper or incomplete servicing may result in operating problems.

Performing do-it-yourself maintenance during the warranty period may affect your warranty coverage. Read the separate Toyota Warranty statement for details and suggestions.

This section gives instructions only for those items that are relatively easy for an owner to perform. As explained in Section 6, there are still a number of items that must be done by a qualified technician with special tools.

For information on tools and parts for do-it-yourself maintenance, see "Parts and tools" in this section.

Utmost care should be taken when working on your vehicle to prevent accidental injury. Here are a few precautions that you should be especially careful to observe:

### CAUTION

- When the engine is running, keep hands, clothing, and tools away from the moving fan and engine drive belts. (Removing rings, watches, and ties is advisable.)
- Right after driving, the engine compartment—the engine, radiator, exhaust manifold and spark plug boots, etc.—will be hot. So be careful not to touch them. Oil, fluids and spark plugs may also be hot.
- If the engine is hot, do not remove the radiator cap or loosen the drain plugs to prevent burning yourself.
- Do not smoke, cause sparks or allow open flames around fuel or the battery. Their fumes are flammable.
- Do not get under your vehicle with just the body jack supporting it. Always use automotive jack stands or other solid supports.

- Be sure that the ignition is off if you work near the electric cooling fans or radiator grille. With the ignition on, the electric cooling fans will automatically start to run if the engine coolant temperature is high and/or the air conditioning is on.
- Use eye protection whenever you work on or under your vehicle where you may be exposed to flying or falling material, fluid spray, etc.
- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact with it. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Do not leave used oil within the reach of children.
- Dispose of used oil and filter only in a safe and acceptable manner. Do not dispose of used oil and filter in household trash, in sewers or onto the ground. Call your dealer or a service station for information concerning recycling or disposal.

- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.
- Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

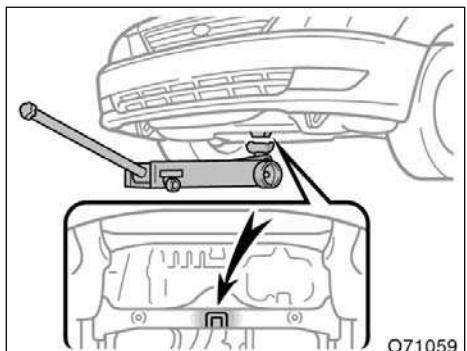
**NOTICE**

- ◆ Remember that battery and ignition cables carry high currents or voltages. Be careful of accidentally causing a short circuit.
- ◆ Add only demineralized or distilled water to fill the radiator. And if you spill some of the coolant, be sure to wash off with water to prevent it from damaging the parts or paint.

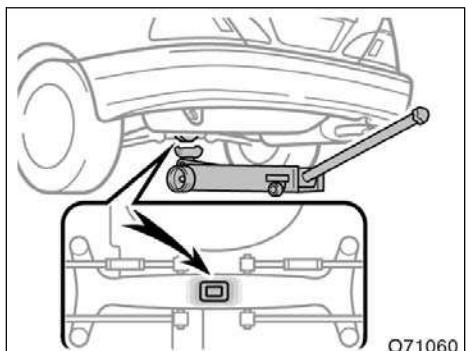
- ◆ Do not allow dirt or anything else to fall through the spark plug holes.
- ◆ Do not pry the outer electrode of a spark plug against the center electrode.
- ◆ Use only spark plugs of the specified type. Using other types will cause engine damage, loss of performance or radio noise.
- ◆ Do not reuse iridium-tipped spark plugs by cleaning or regapping.
- ◆ Do not overfill automatic transmission fluid, or the transmission could be damaged.
- ◆ Do not drive with the air cleaner filter removed, or excessive engine wear could result. Also backfiring could cause a fire in the engine compartment.

- ◆ Be careful not to scratch the glass surface with the wiper frame.
- ◆ When closing the engine hood, check to see that you have not forgotten any tools, rags, etc.

### Positioning the jack



Front



Rear

When jacking up your vehicle with the jack, position the jack correctly as shown in the illustrations.

#### CAUTION

When jacking, be sure to observe the following to reduce the possibility of personal injury:

- Follow jacking instructions.
- Do not put any part of your body under the vehicle supported by the jack. Personal injury may occur.
- Do not start or run the engine while your vehicle is supported by the jack.
- Stop the vehicle on a level firm ground, firmly set the parking brake and put the transmission in "P". Block the wheels on the opposite side of the jack up point if necessary.
- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.

- Never get under the vehicle when the vehicle is supported by the jack alone; use vehicle support stands.

- Do not raise the vehicle with someone in the vehicle.

- When raising the vehicle, do not put an object on or under the jack.

#### NOTICE

*Make sure to place the jack correctly, or your vehicle may be damaged.*

## Parts and tools

Here is a list of parts and tools you will need on performing do-it-yourself maintenance. Remember all Toyota parts are designed in metric sizes, so your tools must be metric.

### CHECKING THE ENGINE OIL LEVEL

#### Parts (if level is low):

- “Toyota Genuine Motor Oil” or equivalent

See Section 7-2 for details about engine oil selection.

#### Tools:

- Rag or paper towel
- Funnel (only for adding oil)

### CHECKING THE ENGINE COOLANT LEVEL

#### Parts (if level is low):

- “Toyota Genuine Long Life Coolant” or equivalent

See Section 7-2 for details about coolant type selection.

- Demineralized or distilled water

#### Tools:

- Funnel (only for adding coolant)

### CHECKING BRAKE FLUID

#### Parts (if level is low):

- SAE J1703 or FMVSS No.116 DOT 3  
brake fluid

#### Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

### CHECKING POWER STEERING FLUID

#### Parts (if level is low):

- Automatic transmission fluid  
DEXRON®II or III

#### Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

### CHECKING BATTERY CONDITION

#### Tools:

- Warm water
- Baking soda
- Grease
- Conventional wrench (for terminal clamp bolts)

### CHECKING AND REPLACING FUSES

#### Parts (if replacement is necessary):

- Fuse with same amperage rating as original

### ADDING WASHER FLUID

#### Parts:

- Water
- Washer fluid containing antifreeze  
(for winter use)

#### Tools:

- Funnel

### REPLACING LIGHT BULBS

#### Parts:

- Bulb with same number and wattage rating as original (See charts in “Replacing light bulbs” in Section 7-3.)

#### Tools:

- Screwdriver

**'03 AVALON U (L/O 0206)**

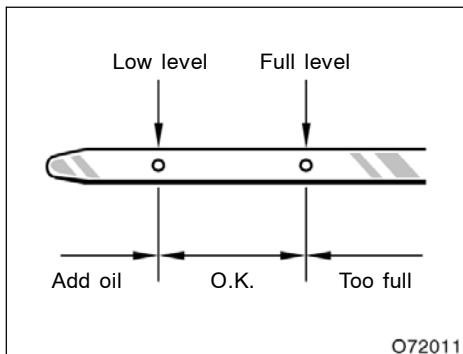
## ***SECTION 7-2***

### **DO-IT-YOURSELF MAINTENANCE**

#### **Engine and Chassis**

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### Checking the engine oil level



With the engine at operating temperature and turned off, check the oil level on the dipstick.

1. To get a true reading, the vehicle should be on a level spot. After turning off the engine, wait a few minutes for the oil to drain back into the bottom of the engine.
2. Pull the dipstick out, hold a rag under the end and wipe it clean.
3. Reinsert the dipstick—push it in as far as it will go, or the reading will not be correct.
4. Pull the dipstick out and look at the oil level while holding a rag under the end.

**CAUTION**  
Be careful not to touch the hot exhaust manifold.

**NOTICE**  
Be careful not to drop the engine oil on the vehicle components.

**NOTICE**

- ◆ Be careful not to spill the engine oil on the vehicle components.
- ◆ Avoid overfilling, or the engine could be damaged.
- ◆ Check the oil level on the dipstick once again after adding the oil.

If the oil level is below or only slightly above the low level, add engine oil of the same type as already in the engine.

Remove the oil filler cap and add engine oil in small quantities at a time, checking the dipstick. We recommend that you use a funnel when adding oil.

The approximate quantity of oil needed to fill between the low level and the full level on the dipstick is indicated below for reference.

When the level reaches within the correct range, install the filler cap hand-tight.

Oil quantity, L (qt., Imp. qt.):  
1.5 (1.6, 1.3)

#### ENGINE OIL SELECTION

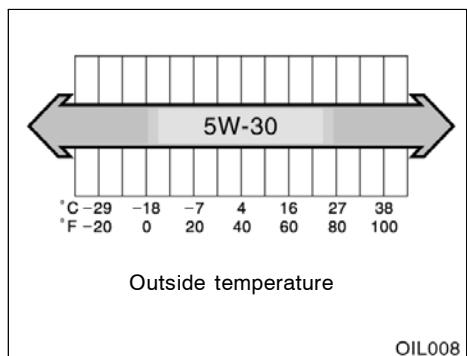
"Toyota Genuine Motor Oil" is filled in your Toyota vehicle. Use Toyota approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

Oil grade:

API grade SL "Energy-Conserving" or ILSAC multigrade engine oil

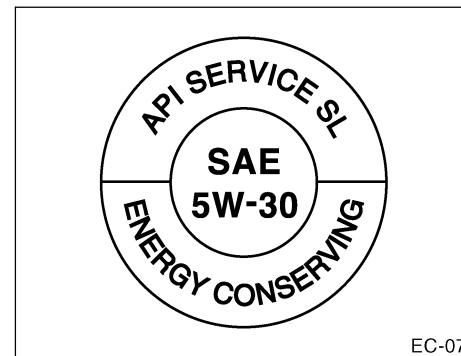
Recommended viscosity:

SAE 5W-30



SAE 5W-30 is the best choice for good fuel economy and good starting in cold weather.

If SAE 5W-30 is not available, SAE 10W-30 may be used. However, it should be replaced with SAE 5W-30 at the next oil change.



EC-07

API service symbol



API-02

ILSAC certification mark

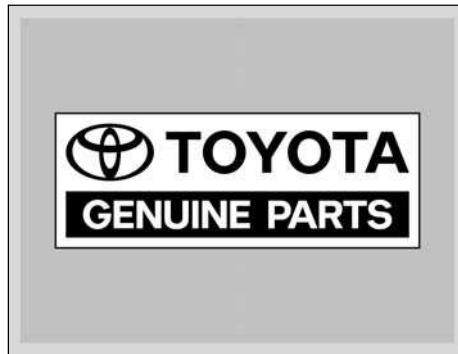
#### Oil identification marks

Either or both API registered marks are added to some oil containers to help you select the oil you should use.

The API Service Symbol is located anywhere on the outside of the container.

The top portion of the label shows the oil quality by API (American Petroleum Institute) designations such as SL. The center portion of the label shows the SAE viscosity grade such as SAE 5W-30. "Energy-Conserving" shown in the lower portion, indicates that the oil has fuel-saving capabilities.

The ILSAC (International Lubricant Standardization and Approval Committee) Certification Mark is displayed on the front of the container.



To ensure the best possible lubrication performance for your engine, the "Toyota Genuine Motor Oil" range is available, which has been specifically tested and approved for all Toyota engines.

Please contact your Toyota dealer for further details of the "Toyota Genuine Motor Oil" range.

#### Checking the engine coolant level

Look at the see-through coolant reservoir when the engine is cold. The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir. If the level is low, add ethylene-glycol type coolant for a proper corrosion protection of aluminum components.

The coolant level in the reservoir will vary with engine temperature. However, if the level is on or below the "LOW" line, add coolant. Bring the level up to the "FULL" line.

Always use ethylene-glycol type coolant for a proper corrosion protection of aluminum components. See information in the next column.

If the coolant level drops within a short time after replenishing, there may be a leak in the system. Visually check the radiator, hoses, radiator cap and drain cock and water pump.

If you can find no leak, have your Toyota dealer test the cap pressure and check for leaks in the cooling system.

 **CAUTION**

**To prevent burning yourself, do not remove the radiator cap when the engine is hot.**

**Coolant type selection**

Use of improper coolants may damage your engine cooling system. Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of your engine that contains aluminum components.

We have used "Toyota Genuine Long Life Coolant" in your Toyota vehicle. In order to avoid technical problems, we strongly recommend using "Toyota Genuine Long Life Coolant" or equivalent.

In addition to preventing freezing and subsequent damage to the engine, this type of coolant will also prevent corrosion. Further supplemental inhibitors or additives are neither needed nor recommended.

Read the coolant container for information on freeze protection. Follow the manufacturer's directions for how much to mix with plain water (preferably demineralized water or distilled water). The total capacity of the cooling system is given in Section 8.

We recommend to use 50% solution for your Toyota, to provide protection down to about  $-35^{\circ}\text{C}$  ( $-31^{\circ}\text{F}$ ). When it is extremely cold, to provide protection down to about  $-50^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ), 60% solution is recommended. Do not use more than 70% solution for better coolant performance.

**NOTICE**

***Do not use alcohol type antifreeze or plain water alone.***



The engine cooling system is integral to maximizing performance of your Toyota vehicle. In line with this, it is strongly recommended that you use "Toyota Genuine Long Life Coolant" for protecting the system, as it is an ethylene-glycol based premium antifreeze coolant with excellent corrosion protection properties that has been specifically formulated for use in Toyota vehicles.

Please contact your Toyota dealer for further details of the "Toyota Genuine Long Life Coolant" range.

## Checking the radiator and condenser

If any of the above parts are extremely dirty or you are not sure of their condition, take your vehicle to Toyota dealer.

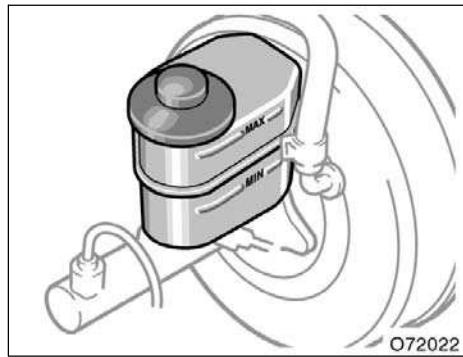
### CAUTION

**To prevent yourself from burning, be careful not to touch the radiator or condenser when the engine is hot.**

### NOTICE

***To prevent damage to the radiator and condenser, do not perform the work by yourself.***

## Checking brake fluid



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To check the fluid level, simply look at the see-through reservoir. The level should be between the "MAX" and "MIN" lines on the reservoir.

It is normal for the brake fluid level to go down slightly as the brake pads wear. So be sure to keep the reservoir filled.

If the reservoir needs frequent refilling, it may indicate a serious mechanical problem.

**If the level is low, add SAE J1703 or FMVSS No.116 DOT 3 brake fluid to the brake reservoir.**

Remove and replace the reservoir cap by hand. Fill the brake fluid to the dotted line. This brings the fluid to the correct level when you put the cap back on.

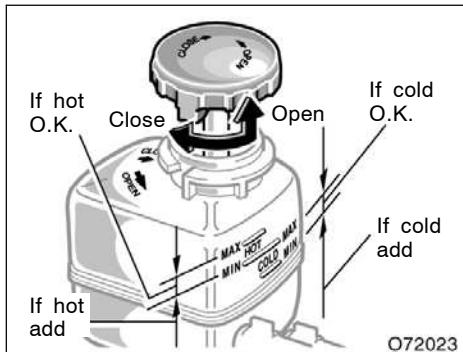
Use only newly opened brake fluid. Once opened, brake fluid absorbs moisture from the air, and excess moisture can cause a dangerous loss of braking.

### CAUTION

**Take care when filling the reservoir because brake fluid can harm your eyes and damage painted surfaces. If fluid gets in your eyes, flush your eyes with clean water immediately. If you still feel uncomfortable with your eyes, go to the doctor.**

### NOTICE

***If you spill the fluid, be sure to wash it off with water to prevent it from damaging the parts or paint.***

**Checking power steering fluid**

**Check the fluid level through the reservoir. If necessary, add automatic transmission fluid DEXRON®II or III.**

If the vehicle has been driven around 80 km/h (50 mph) for 20 minutes (a little more in frigid temperatures), the fluid is hot (60°C—80°C or 140°F—175°F). You may also check the level when the fluid is cold (about room temperature, 10°C—30°C or 50°F—85°F) if the engine has not been run for about five hours.

Clean all dirt from outside of the reservoir tank and look at the fluid level. If the fluid is cold, the level should be in the "COLD" range. Similarly, if it is hot, the fluid level should be in the "HOT" range. If the level is at the low side of either range, add automatic transmission fluid DEXRON®II or III to bring the level within the range.

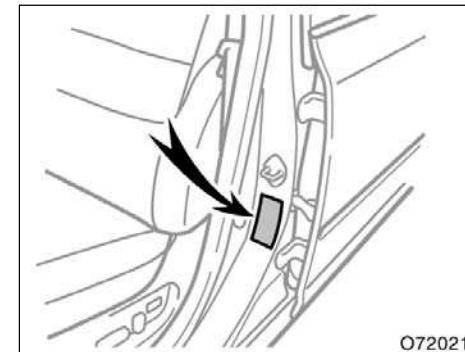
To remove the reservoir cap, turn it counterclockwise and lift up. To reinstall it, turn it clockwise. After replacing the reservoir cap, visually check the steering box case, vane pump and hose connections for leaks or damage.

**CAUTION**

**The reservoir tank may be hot so be careful not to burn yourself.**

**NOTICE**

**Avoid overfilling, or the power steering could be damaged.**

**Checking tire pressure**

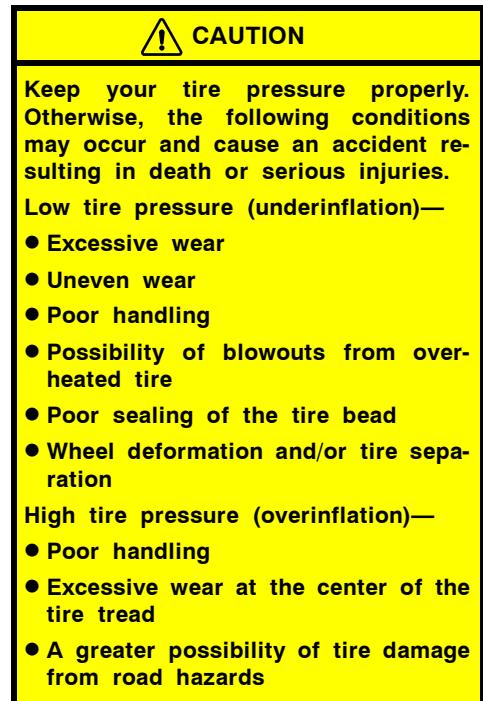
**Keep your tire pressures at the proper level.**

The recommended cold tire pressures, tire size and the vehicle capacity weight are given in Section 8. They are also on the tire pressure label as shown.

You should check the tire pressures every two weeks, or at least once a month. And do not forget the spare!

Incorrect tire pressure may waste fuel, reduce the comfort of driving, reduce tire life and make your vehicle less safe to drive.

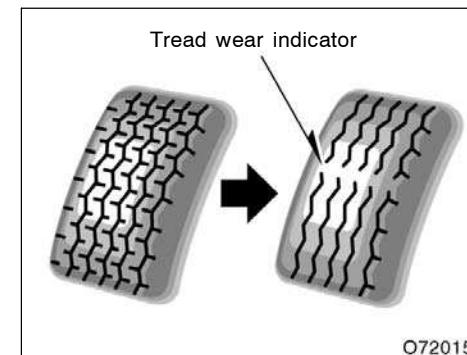
If a tire frequently needs refilling, have it checked by your Toyota dealer.



**The following instructions for checking tire pressure should be observed:**

- The pressure should be checked only when the tires are cold. If your vehicle has been parked for at least 3 hours and has not been driven for more than 1.5 km or 1 mile since, you will get an accurate cold tire pressure reading.
- Always use a tire pressure gauge. The appearance of a tire can be misleading. Besides, tire pressures that are even just a few pounds off can degrade ride and handling.
- Do not bleed or reduce tire pressure after driving. It is normal for the tire pressure to be higher after driving.
- Never exceed the vehicle capacity weight. The passenger and luggage weight should be located so that the vehicle is balanced.
- Be sure to reinstall the tire inflation valve caps. Without the valve caps, dirt or moisture could get into the valve core and cause air leakage. If the caps have been lost, have new ones put on as soon as possible.

## Checking and replacing tires



### CHECKING YOUR TIRES

Check the tire tread for the tread wear indicators. If the indicators show, replace the tires.

The tires on your Toyota have built-in tread wear indicators to help you know when the tires need replacement. When the tread depth wears to 1.6 mm (0.06 in.) or less, the indicators will appear. If you can see the indicators in two or more adjacent grooves, the tire should be replaced. The lower the tread, the higher the risk of skidding.

The effectiveness of snow tires is lost if the tread wears down below 4 mm (0.16 in.).

Check the tires regularly for damage such as cuts, splits and cracks. If any damage is found, consult with a technician and have the tire repaired or replaced.

Even if the damage does not appear serious, a qualified technician should examine the damage. Objects which have penetrated the tire may have caused internal damage.

Any tires which are over 6 years old must be checked by a qualified technician even if damage is not obvious.

Tires deteriorate with age even if they have never or seldom been used.

This also applies to the spare tire and tires stored for future use.

#### REPLACING YOUR TIRES

When replacing a tire, use only the same size and construction as originally installed and with the same or greater load capacity.

Using any other size or type of tire may seriously affect handling, ride, speedometer/odometer calibration, ground clearance, and clearance between the body and tires or snow chains.

#### CAUTION

Observe the following instructions. Otherwise, an accident may occur resulting in death or serious injuries.

- Do not mix radial, bias belted, or bias-ply tires on your vehicle, as this may cause dangerous handling characteristics resulting in loss of control.
- Do not use tires other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control.

Toyota recommends all four tires, or at least both front or rear tires be replaced as a set.

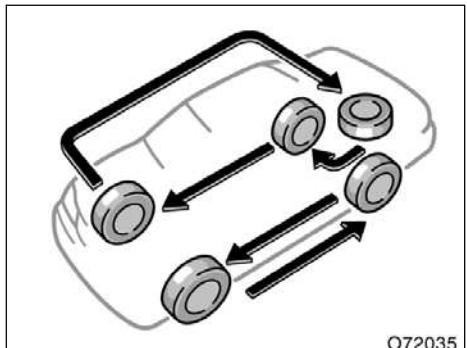
See "If you have a flat tire" in Section 4 for tire change procedure.

When a tire is replaced, the wheel should always be balanced.

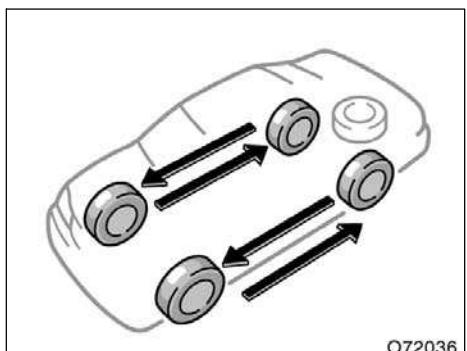
An unbalanced wheel may affect vehicle handling and tire life. Wheels can get out of balance with regular use and should therefore be balanced occasionally.

When replacing a tubeless tire, the air valve should also be replaced with a new one.

## Rotating tires



With a spare tire of the same wheel type as the installed tires



With a spare tire of different wheel type from the installed tires

To equalize the wear and help extend tire life, Toyota recommends that you rotate your tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".) However, the most appropriate timing for tire rotation may vary according to your driving habits and road surface conditions.

See "If you have a flat tire" in Section 4 for tire change procedure.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, or severe braking.

## Installing snow tires and chains

### WHEN TO USE SNOW TIRES OR CHAINS

Snow tires or chains are recommended when driving on snow or ice.

On wet or dry roads, conventional tires provide better traction than snow tires.

### SNOW TIRE SELECTION

If you need snow tires, select the same size, construction and load capacity as the original tires on your Toyota.

Do not use tires other than those mentioned above. Do not install studded tires without first checking local regulations for possible restrictions.

### CAUTION

Do not use snow tires other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control. Otherwise, an accident may occur resulting in death or serious injuries.

**SNOW TIRE INSTALLATION**

**Snow tires should be installed on all wheels.**

Installing snow tires on the front wheels only can lead to an excessive difference in road grip capability between the front and rear tires which could cause loss of vehicle control.

When storing removed tires, you should store them in a cool dry place.

Mark the direction of rotation and be sure to install them in the same direction when replacing.

 **CAUTION**

- Do not drive with the snow tires incorrectly inflated.
- Never drive over 120 km/h (75 mph) with any type of snow tires.

**TIRE CHAIN SELECTION**

**P205/65R15 92H tires—Use the tire chains of correct size and type.**

Use SAE Class "S" type radial tire chains except radial cable chains or V-bar type chains.

**P205/60R16 91H tires—Use tire chains of the correct size.**

Use only genuine Toyota tire chains or equivalent for use on the AVALON.

**NOTICE**

*If the wrong combination of tire and chain is used, the chains could damage the vehicle body.*

- AVALON genuine tire chains  
(Part No. 08329-33801)

Laws about using tire chains vary according to locality and type of road, so always check your local laws before you install tire chains.

**CHAIN INSTALLATION**

Install the chains on the front tires as tightly as possible. Do not use tire chains on the rear tires. Retighten chains after driving 0.5—1.0 km (1/4—1/2 mile).

When installing chains on your tires, carefully follow the instructions of the chain manufacturer.

If wheel covers are used, they will be scratched by the chain band, so remove the covers before putting on the chains.

 **CAUTION**

- Do not exceed 50 km/h (30 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully avoiding bumps, holes, and sharp turns, which may cause the vehicle to bounce.
- Avoid sharp turns or locked-wheel braking, as use of chains may adversely affect vehicle handling.
- When driving with chains installed, be sure to drive carefully. Slow down before entering the curves to avoid losing control of the vehicle. Otherwise an accident may occur.

## Replacing wheels

### WHEN TO REPLACE YOUR WHEELS

If you have wheel damage such as bending, cracks or heavy corrosion, the wheel should be replaced.

If you fail to replace damaged wheels, the tire may slip off the wheel or cause loss of handling control.

### WHEEL SELECTION

When replacing wheels, care should be taken to ensure that the wheels are replaced by ones with the same load capacity, diameter, rim width, and offset.

Correct replacement wheels are available at your Toyota dealer.

A wheel of a different size or type may adversely affect handling, wheel and bearing life, brake cooling, speedometer/odometer calibration, stopping ability, headlight aim, bumper height, vehicle ground clearance, and tire or snow chain clearance to the body and chassis.

Replacement with used wheels is not recommended as they may have been subjected to rough treatment or high mileage and could fail without warning. Also, bent wheels which have been straightened may have structural damage and therefore should not be used. Never use an inner tube in a leaking wheel which is designed for a tubeless tire.

### CAUTION

Do not use wheels other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control. Otherwise, an accident may occur resulting in death or serious injuries.

## Aluminum wheel precautions

- When installing aluminum wheels, check that the wheel nuts are tight after driving your vehicle the first 1600 km (1000 miles).
- If you have rotated, repaired, or changed your tires, check that the wheel nuts are still tight after driving 1600 km (1000 miles).
- When using tire chains, be careful not to damage the aluminum wheels.
- Use only the Toyota wheel nuts and wrench designed for your aluminum wheels.
- When balancing your wheels, use only Toyota balance weights or equivalent and a plastic or rubber hammer.
- As with any wheel, periodically check your aluminum wheels for damage. If damaged, replace immediately.

## ***SECTION 7-3***

### **DO-IT-YOURSELF MAINTENANCE**

#### **Electrical components**

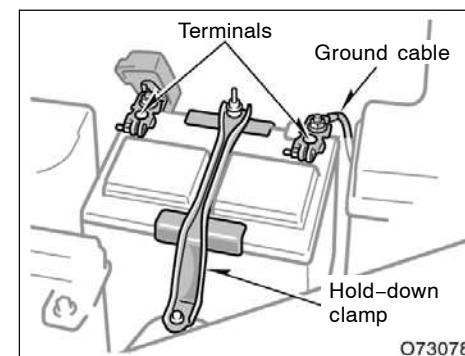
Checking battery condition .....	288
Battery recharging precautions .....	289
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## Checking battery condition— —Precautions



- If electrolyte gets on your skin, thoroughly wash the contact area. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes, there is a possibility of its soaking through to your skin, so immediately take off the exposed clothing and follow the procedure above, if necessary.
- If you accidentally swallow electrolyte, drink a large quantity of water or milk. Follow with milk of magnesia, beaten raw egg or vegetable oil. Then go immediately for emergency help.
- Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

## —Checking battery exterior



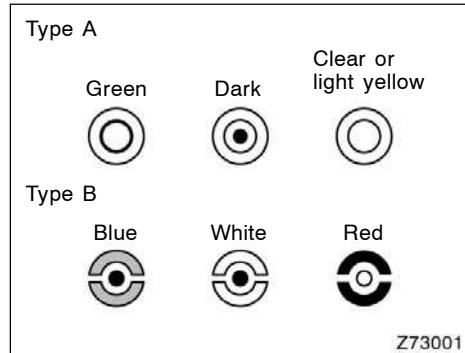
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Check the battery for corroded or loose terminal connections, cracks, or loose hold-down clamp.

- If the battery is corroded, wash it off with a solution of warm water and baking soda. Coat the outside of the terminals with grease to prevent further corrosion.
- If the terminal connections are loose, tighten their clamp nuts—but do not overtighten.
- Tighten the hold-down clamp only enough to keep the battery firmly in place. Overtightening may damage the battery case.

**NOTICE**

- ◆ **Be sure the engine and all accessories are off before performing maintenance.**
- ◆ **When checking the battery, remove the ground cable from the negative terminal ("—" mark) first and reinstall it last.**
- ◆ **Be careful not to cause a short circuit with tools.**
- ◆ **Take care no solution gets into the battery when washing it.**

**—Checking battery condition****CHECKING BY INDICATOR**

Check the battery condition by the indicator color.

Indicator color		Condition
Type A	Type B	
Green	Blue	Good
Dark	White	Charging necessary. Have battery checked by your Toyota dealer.
Clear or light yellow	Red	Have battery checked by your Toyota dealer.

**Battery recharging precautions**

During recharging, the battery is producing hydrogen gas.

Therefore, before recharging:

1. If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
2. Be sure the power switch on the recharger is off when connecting the charger cables to the battery and when disconnecting them.

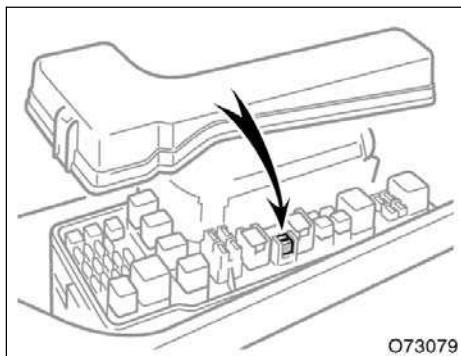
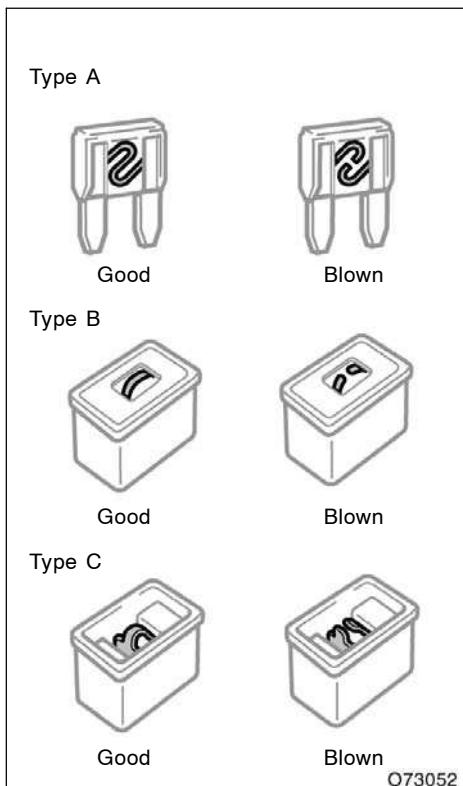
**! CAUTION**

- Always charge the battery in an unconfined area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.
- Only do a slow charge (5 A or less). Charging at a quicker rate is dangerous. The battery may explode, causing personal injuries.

**NOTICE**

*Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.*

**Checking and replacing fuses**



**If the headlights or other electrical components do not work, check the fuses. If any of the fuses are blown, they must be replaced.**

See "Fuse locations" in Section 7-1 for locations of the fuses.

**Turn the ignition switch and inoperative component off. Pull a suspected fuse straight out and check it.**

Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse. See Section 8 of this manual for the functions controlled by each circuit.

Type A fuses can be pulled out by the pull-out tool. The location of the pull-out tool is shown in the illustration.

If you are not sure whether the fuse has blown, try replacing the suspected fuse with one that you know is good.

**If the fuse has blown, push a new fuse into the clip.**

Only install a fuse with the amperage rating designated on the fuse box lid.

If you do not have a spare fuse, in an emergency you can pull out the "RADIO" or "A/C" fuse, which may be dispensable for normal driving, and use it if its amperage rating is the same.

If you cannot use one of the same amperage, use one that is lower, but as close as possible to the rating. If the amperage is lower than that specified, the fuse might blow out again but this does not indicate anything wrong. Be sure to get the correct fuse as soon as possible and return the substitute to its original clip.

It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

If the new fuse immediately blows out, there is a problem with the electrical system. Have your Toyota dealer correct it as soon as possible.

 **CAUTION**

**Never use a fuse with a higher amperage rating, or any other object, in place of a fuse. This may cause extensive damage and possibly a fire.**

**Adding washer fluid**

**If any washer does not work or low windshield washer fluid level warning light comes on, the washer tank may be empty. Add washer fluid.**

You may use plain water as washer fluid. However, in cold areas where temperatures range below freezing point, use washer fluid containing antifreeze. This product is available at your Toyota dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

**NOTICE**

***Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.***

**Replacing light bulbs—**

The following illustrations show how to gain access to the bulbs. When replacing a bulb, make sure the ignition switch and light switch are off. Use bulbs with the wattage ratings given in the table.

 **CAUTION**

- To prevent yourself from burning, do not replace the light bulbs while they are hot.
- Halogen bulbs have pressurized gas inside and require special handling. They can burst or shatter if scratched or dropped. Hold a bulb only by its plastic or metal case. Do not touch the glass part of a bulb with bare hands.

**NOTICE**

***Only use a bulb of the listed type.***

## '03 AVALON U (L/O 0206)

The inside of the lens of exterior lights such as headlights may temporarily fog up when the lens becomes wet in the rain or in a car wash. This is not a problem because the fogging is caused by the temperature difference between the outside and inside of the lens, just like the windshield fogged up in the rain. However, if there is a large drop of water on the inside of the lens, or if there is water pooled inside the light, contact your Toyota dealer.

Light bulbs	Bulb No.	W	Type
Headlights (low beam)	9006	51	A
Headlights (high beam)	9005	60	B
Front fog lights	9006	51	A
Front turn signal/parking lights	1157NA	27/8	C
Rear turn signal lights	—	21	D
Stop/tail lights	7443	21/5	E
Rear side marker lights	194	3.8	E
Back-up lights	921	18	E
Tail lights	168	5	E
License plate lights	168	5	E
High mounted stoplight	921	18	E
Interior light	—	7	F
Front personal lights	—	7	F

Light bulbs	Bulb No.	W	Type
Rear personal lights	—	5	F
Vanity lights	—	2	F
Glove box light	—	1.2	E
Door courtesy lights	—	6	F
Trunk light	—	3	F

A: HB4 halogen bulbs

B: HB3 halogen bulbs

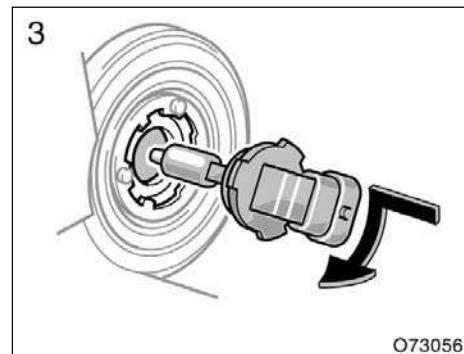
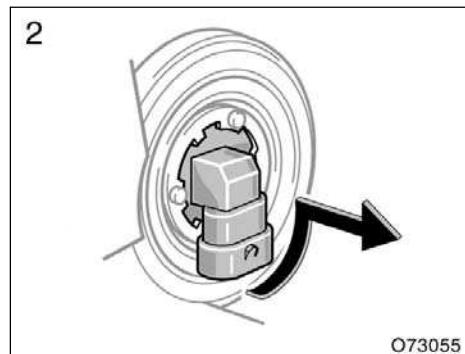
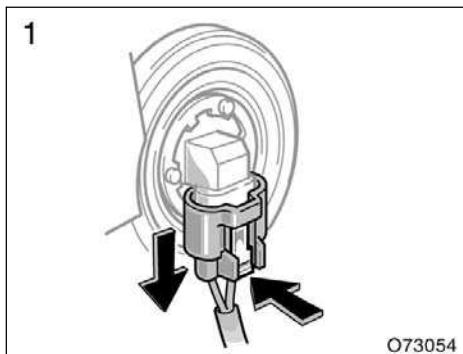
C: Single end bulbs

D: Wedge base bulbs (amber)

E: Wedge base bulbs (clear)

F: Double end bulbs

—Headlights



1. Unplug the connector while depressing the lock release.

If the connector is tight, wiggle it.

2. Turn the bulb and remove it.

3. Install a new bulb and the connector into the mounting hole.

Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your Toyota dealer.

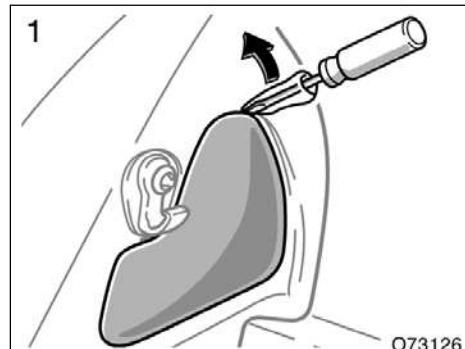
—Front fog and front turn signal/parking lights

If either the left or right front fog or front turn signal/parking lights burns out, contact your Toyota dealer.

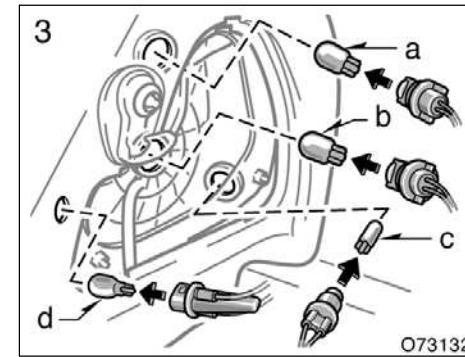
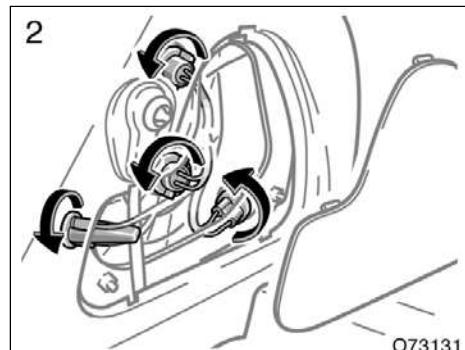
**NOTICE**

*Do not try to replace the front fog or front turn signal/parking light bulbs by yourself. You may damage the vehicle.*

—Rear turn signal, stop/tail, rear side marker and back-up lights

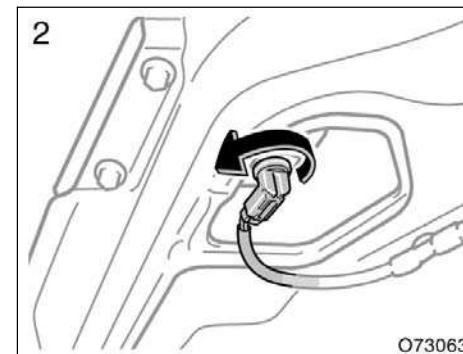
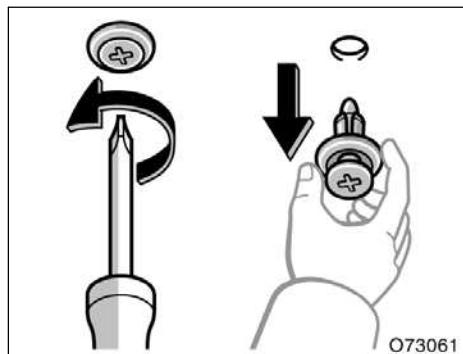
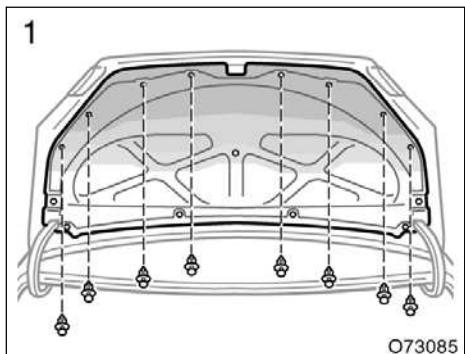


Use a flat-bladed screwdriver which is wrapped with a cloth.

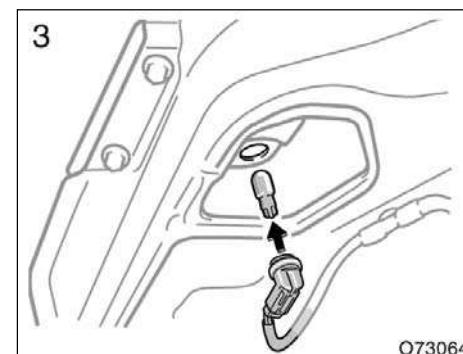
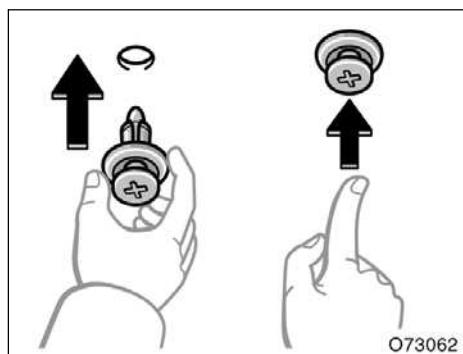


a: Rear turn signal light  
b: Stop/tail light  
c: Rear side marker light  
d: Back-up light

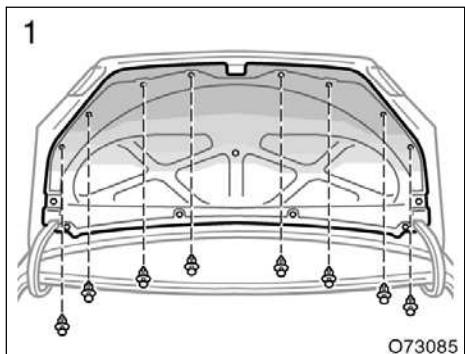
—Tail lights



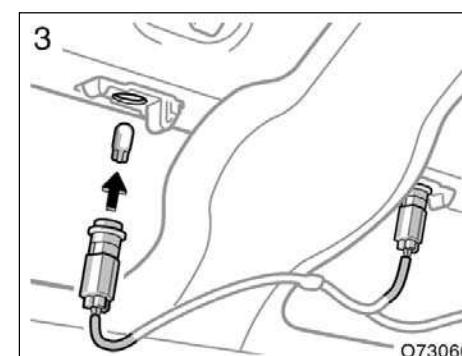
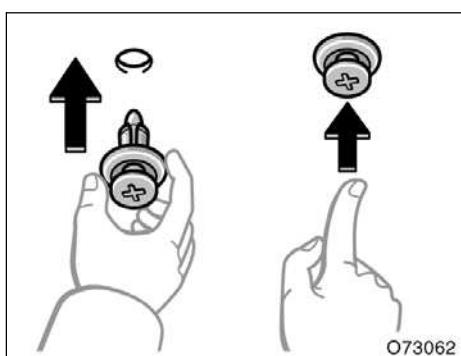
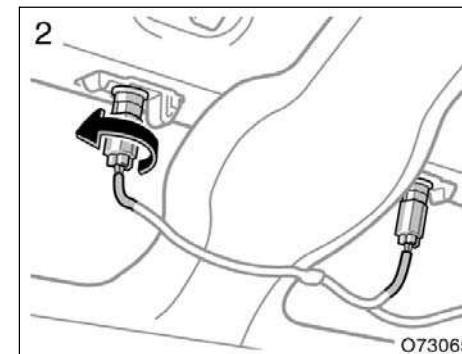
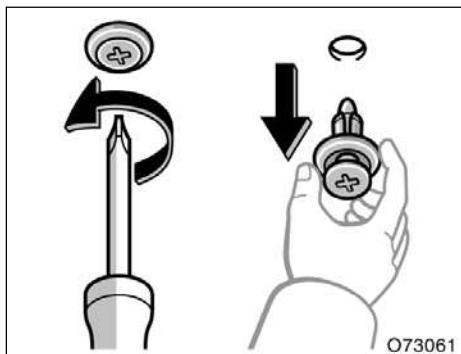
Remove and install the cover clips as shown in the following illustrations.



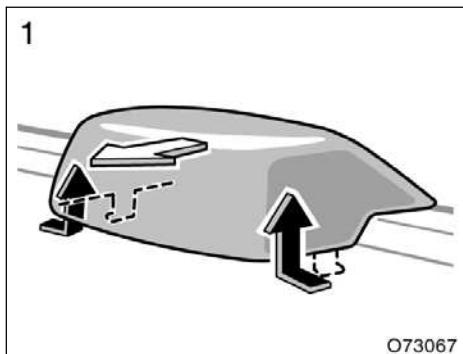
—License plate lights



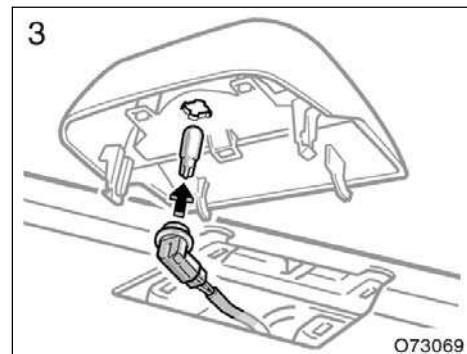
Remove and install the cover clips as shown in the following illustrations.



—High mounted stoplight  
(type A)

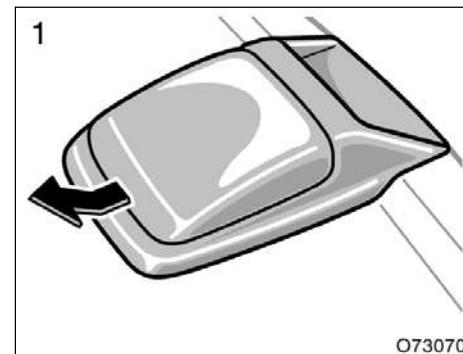


O73067

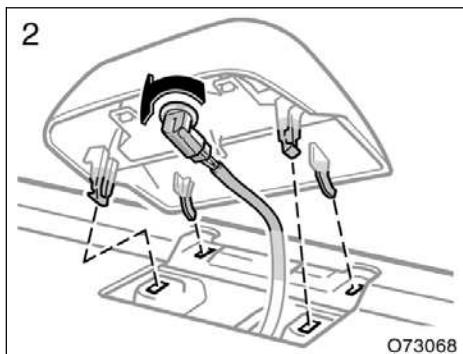


O73069

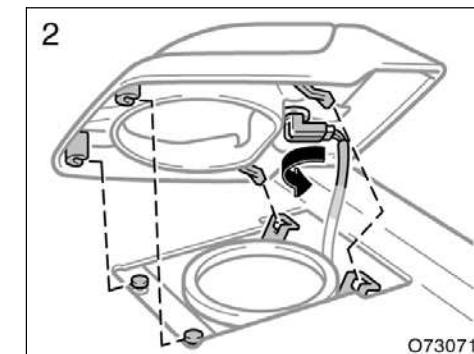
—High mounted stoplight  
(type B)



O73070

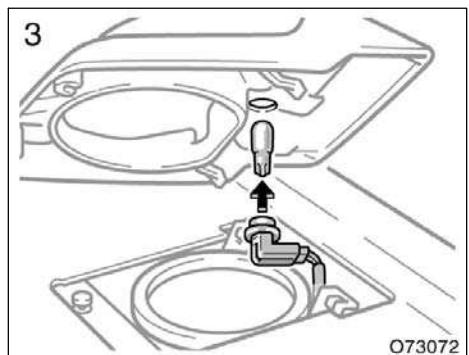


O73068



O73071

**'03 AVALON U (L/O 0206)**



## ***SECTION 8***

### **SPECIFICATIONS**

Dimensions and weight .....	300
Engine .....	300
Fuel .....	301
Service specifications .....	301
Tires .....	303
Fuses .....	304

## '03 AVALON U (L/O 0206)

### Dimensions and weight

Overall length	mm (in.)	4865 (191.5)
Overall width	mm (in.)	1820 (71.7)
Overall height	mm (in.)	1465 (57.7) <sup>*1</sup>
Wheelbase	mm (in.)	2720 (107.0)
Front tread	mm (in.)	1550 (61.0)
Rear tread	mm (in.)	1525 (60.0)
Vehicle capacity weight (occupants + luggage)	kg (lb.)	410 (900) <sup>*2</sup> 475 (1050) <sup>*3</sup>

<sup>\*1</sup>: Unladen vehicle

<sup>\*2</sup>: With floor shift type automatic transmission

<sup>\*3</sup>: With column shift type automatic transmission

### Engine

Model:

1MZ-FE

Type:

6 cylinder V type 4 cycle, gasoline

Bore and stroke, mm (in.):

87.5 × 83.0 (3.44 × 3.27)

Displacement, cm<sup>3</sup> (cu. in.):

2995 (182.8)

**Fuel****Fuel type:**

Unleaded gasoline, Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

Fuel tank capacity, L (gal., Imp. gal.):  
70 (18.5, 15.4)

**Service specifications****ENGINE****Valve clearance (engine cold), mm (in.):**

Intake	0.15—0.25 (0.006—0.010)
Exhaust	0.25—0.35 (0.010—0.014)

**Spark plug type:**

DENSO	SK20R11
NGK	IFR6A11

**Spark plug gap, mm (in.):**

1.1 (0.043)

Drive belt tension measured with Borroughs drive belt tension gauge No. BT-33-73F (used belt), lbf:

Generator belt	88±22
Power steering pump belt	115±20

**ENGINE LUBRICATION****Oil capacity (drain and refill), L (qt., Imp. qt.):**

With filter	4.7 (5.0, 4.1)
Without filter	4.5 (4.8, 4.0)

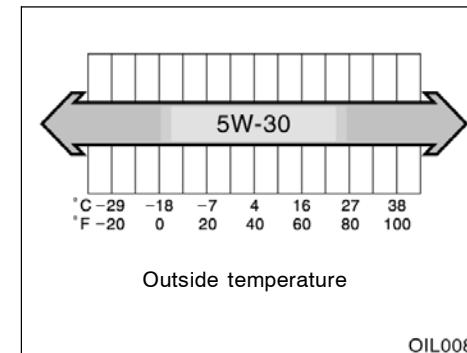
"Toyota Genuine Motor Oil" is filled in your Toyota vehicle. Use Toyota approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

**Oil grade:**

API grade SL "Energy-Conserving" or ILSAC multigrade engine oil.

**Recommended oil viscosity:**

SAE 5W-30



Please contact your Toyota dealer for further details.

**COOLING SYSTEM**

Total capacity, L (qt., Imp. qt.):  
9.0 (9.5, 7.9)

Coolant type:

"Toyota Genuine Long Life Coolant" is filled in your Toyota vehicle. In order to avoid technical problems, we strongly recommend using "Toyota Genuine Long Life Coolant" or equivalent.

With ethylene-glycol type coolant for a proper corrosion protection of aluminum components

Do not use alcohol type antifreeze or plain water alone.

Please contact your Toyota dealer for further details.

**BATTERY**

Open voltage\* at 20°C (68°F):  
12.6—12.8 V Fully charged  
12.2—12.4 V Half charged  
11.8—12.0 V Discharged

\*: Voltage that is checked 20 minutes after the key is removed with all the lights turned off

Charging rates:  
5 A max.

**AUTOMATIC TRANSAXLE**

Fluid capacity (drain and refill), L (qt., Imp. qt.):  
Up to 4.75 (5.0, 4.2)

Fluid type:  
Toyota Genuine ATF D-II or DEXRON®III (DEXRON®II)

Please contact your Toyota dealer for further details.

**BRAKES**

Minimum pedal clearance when depressed with the force of 490 N (50 kgf, 110 lbf) with the engine running, mm (in.):  
75 (3.0)

Pedal free play, mm (in.):  
1—6 (0.04—0.24)

Pad wear limit, mm (in.):  
1.0 (0.04)

Lining wear limit, mm (in.):  
1.0 (0.04)

Parking brake adjustment when depressed with the force of 294 N (30 kgf, 66.1 lbf):  
3—6 clicks

Fluid type:  
SAE J1703 or FMVSS No.116 DOT 3

**STEERING**

Wheel free play:  
Less than 30 mm (1.2 in.)

Power steering fluid type:  
Automatic transmission fluid DEXRON®II or III

**Tires****Tire size and pressure:**

Normal driving

kPa (kgf/cm<sup>2</sup> or bar, psi)

Tire size	Tire pressure		Wheel size
	Front	Rear	
P205/65R15 92H	210 (2.1, 31)	210 (2.1, 31)	15 × 6JJ
P205/60R16 91H	220 (2.2, 32)	220 (2.2, 32)	16 × 6JJ

Trailer driving

kPa (kgf/cm<sup>2</sup> or bar, psi)

Tire size	Tire pressure	
	Front	Rear
P205/65R15 92H	220 (2.2, 32)	220 (2.2, 32)
P205/60R16 91H	240 (2.4, 35)	240 (2.4, 35)

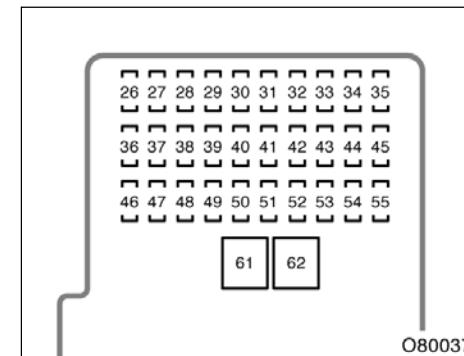
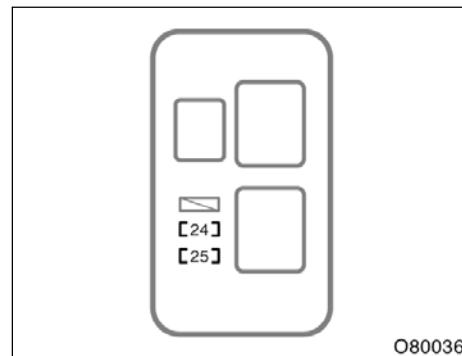
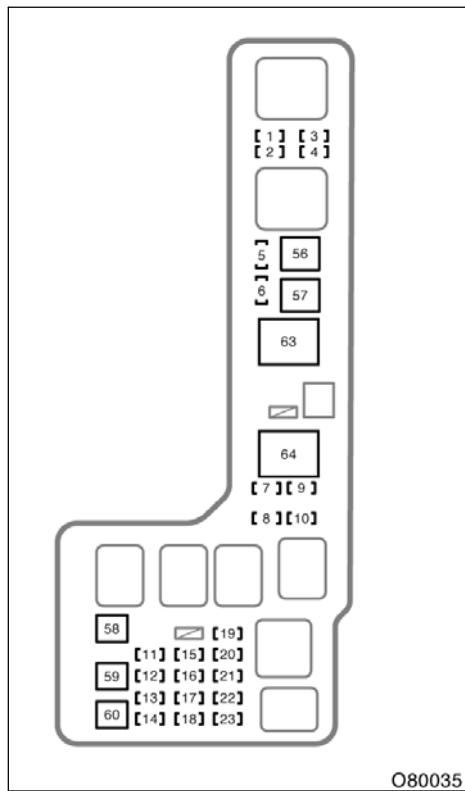
When driving under the above vehicle load conditions at sustained high speeds above 160 km/h (100 mph), in countries where such speeds are permitted by law, inflate the front and rear tires to 280 kPa (2.8 kgf/cm<sup>2</sup> or bar, 41 psi) provided that it does not exceed the maximum cold tire pressure molded on the tire sidewall.

**Wheel nut torque, N·m (kgf·m, ft·lbf):**

103 (10.5, 76)

NOTE: For a complete information on tires (e.g. replacing tires or replacing wheels), see "Checking tire pressure" through "Aluminum wheel precautions" in Section 7-2.

**Fuses**



**Fuses (type A)**

1. **HEAD RH UPR 10 A:** No circuit
2. **HEAD LH UPR 10 A:** No circuit
3. **HEAD RH LWR 15 A:** Right-hand headlight (low beam)
4. **HEAD LH LWR 15 A:** Left-hand headlight (low beam)
5. **ABS NO.4 5 A:** Vehicle skid control system
6. **DRL 7.5 A:** Daytime running light system
7. **SPARE 30 A:** Spare fuse
8. **SPARE 15 A:** Spare fuse
9. **SPARE 25 A:** Spare fuse
10. **SPARE 10 A:** Spare fuse
11. **ALT-S 5 A:** Charging system
12. **DCC 30 A:** "DOME", "ECU-B" and "RADIO" fuses
13. **SECURITY 10 A:** Theft-deterrent system
14. **HAZ 15 A:** Turn signal lights
15. **A/F 25 A:** Air/fuel sensor
16. **DOOR NO.2 15 A:** Power door lock system
17. **HORN 10 A:** Horn, theft-deterrent system

**18. AM2 10 A:** SRS airbag system, multiport fuel injection system/sequential multiport fuel injection system, starter system, charging system, air/fuel sensor, fuel pump

**19. EFI NO.2 7.5 A:** Multiport fuel injection system/sequential multiport fuel injection system, air flow meter, oxygen sensor, evaporative emission control system, throttle positioner control system, engine control system

**20. ABS NO.3 25 A:** Anti-lock brake system

**21. ABS NO.2 25 A:** Vehicle skid control system

**22. EFI NO.1 15 A:** Multiport fuel injection system/sequential multiport fuel injection system, fuel pump

**23. IG2 15 A:** Multiport fuel injection system/sequential multiport fuel injection system

**24. HEAD LH UPR 10 A:** Left-hand headlight (high beam), high beam indicator light

**25. HEAD RH UPR 10 A:** Right-hand headlight (high beam)

**26. ECU-IG NO.1 5 A:** Electric cooling fans

**27. ECU-B 7.5 A:** Air conditioning system, theft deterrent system, power seats, meters, power windows (for driver and front passenger), multiplex communication system

**28. TAIL 10 A:** Parking lights, license plate lights, tail lights, rear side marker lights, rear light failure warning light, engine control system

**29. SEAT HTR 20 A:** Seat heaters

**30. FR P/W 20 A:** Power window (for front passenger)

**31. GAUGE NO.1 10 A:** Vehicle skid control system, rear window defogger, cruise control system, shift lock system, anti-lock brake system, auto anti-glare inside rear view mirror, automatic light control system, power seats, rear light failure warning light, automatic transmission indicator lights, power outlet, power window (for driver), brake system warning light, electric moon roof

**32. HTR 10 A:** Air conditioning system

**33. FOG 15 A:** Front fog lights

**34. TURN 7.5 A:** Turn signal lights

**35. A/C 10 A:** Air conditioning system

**36. RADIO 15 A:** Audio system, multi-information display

**37. PANEL 5 A:** Gauges and meters, audio system, cigarette lighter, air conditioning system, emergency flasher, electronically controlled automatic transmission system, power rear view mirrors, multi-information display, glove box light, instrument panel lights, instrument panel light control, power outlet

**38. FL P/W 25 A:** Power window (for driver)

**39. PWR OUTLET NO.1 15 A:** Power outlet (ACC)

**40. ECU-ACC 5 A:** Audio system, power rear view mirrors, multi-information display, shift lock system, multiplex communication system

**41. SRS-ACC 10 A:** SRS airbag system

**42. MIR HTR 10 A:** Outside rear view mirror defoggers, engine control system

**43. PWR OUTLET NO.2 15 A:** Power outlet (IG)

**44. GAUGE NO.2 10 A:** Back-up lights

**45. OBD-II 7.5 A:** On-board diagnosis system

**46. STOP 15 A:** Stop lights, high mounted stoplight, anti-lock brake system, shift lock system, cruise control system, vehicle skid control system, engine control system

**47. DOME 7.5 A:** Interior lights, front personal lights, door courtesy lights, ignition switch light, vanity lights, garage door opener, open door warning light, illuminated entry system, rear personal lights, automatic light control system, trunk light, wireless remote control system, multiplex communication system

**48. OPNER 5 A:** No circuit

**49. RL P/W 20 A:** Power window (for rear left passenger)

**50. RR P/W 20 A:** Power window (for rear right passenger)

**51. WIP 25 A:** Windshield wipers and washer

**52. ECU-IG NO.2 10 A:** Anti-lock brake system, cruise control system, multi-information display, theft deterrent system, vehicle skid control system, meters, multiplex communication system

**53. CIG 15 A:** Cigarette lighter

**54. DOOR NO.1 25 A:** Theft deterrent system, trunk opener, multiplex communication system

**55. SUN ROOF 30 A:** Electric moon roof

**Fuses (type B)**

**56. AM1 40 A:** Multiport fuel injection system/sequential multiport fuel injection system

**57. HTR 50 A:** Air conditioning system

**58. CDS 30 A:** Electric cooling fans

**59. RDI 30 A:** Electric cooling fans

**60. MAIN 40 A:** Starter system

**61. DEF 40 A:** Rear window defogger, noise filter

**62. PWR SEAT 30 A:** Power seats

**Fuses (type C)**

**63. ABS 60 A:** Anti-lock brake system, "ABS NO.4" fuse

**64. ALT 120 A:** "HTR", "A/C", "ABS NO.2", "ABS NO.3", "RDI", "CDS", "AM1", "ABS" and "ABS NO.4" fuses

## **SECTION 9**

### **REPORTING SAFETY DEFECTS FOR U.S. OWNERS AND UNIFORM TIRE QUALITY GRADING**

<a href="#">Reporting safety defects for U.S. owners</a> .....	308
<a href="#">Uniform tire quality grading</a> .....	308

**Reporting safety defects for  
U.S. owners**

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 Toyota Motor Sales, U.S.A., Inc. (Toll-free: 1-800-331-4331).

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 Toyota Motor Sales, U.S.A., Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

**Uniform tire quality grading**

This information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation. It provides the purchasers and/or prospective purchasers of Toyota vehicles with information on uniform tire quality grading.

Your Toyota dealer will help answer any questions you may have as you read this information.

**DOT quality grades—All passenger car tires must conform to Federal Safety Requirements in addition to these grades. Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example: Treadwear 200 Traction AA Temperature A**

**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 a 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.

**Traction AA, A, B, C**—The traction grades, from highest to lowest, are AA, A, B, and C, and they 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.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

**Temperature A, B, C**—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.

Warning: The temperature grades for this tire are 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.

**'03 AVALON U (L/O 0206)**

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2003 AVALON (OM41401U)

## Important information about this manual

### Safety and vehicle damage warnings

Throughout this manual, you will see safety and vehicle damage warnings. You must follow these warnings carefully to avoid possible injury or damage.

The types of warnings, what they look like, and how they are used in this manual are explained as follows:

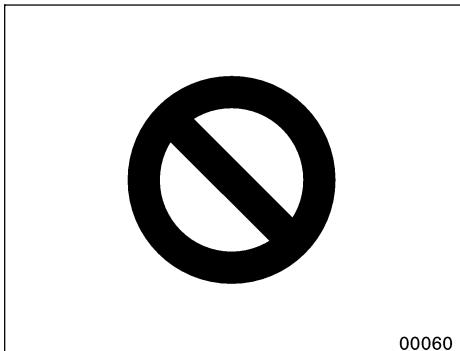
#### CAUTION

*This is a warning against something which may cause injury to people if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk to yourself and other people.*

#### NOTICE

*This is a warning against something which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your vehicle and its equipment.*

### Safety symbol



When you see the safety symbol shown above, it means: "Do not..."; "Do not do this"; or "Do not let this happen".

## Important information about your Toyota

### New vehicle warranty

Your new vehicle is covered by the following Toyota limited warranties:

- New vehicle warranty
- Emission control systems warranty
- Others

For further information, please refer to the "Owner's Warranty Information Booklet" or "Owner's Manual Supplement".

### Accessories, spare parts and modification of your Toyota

A wide variety of non-genuine spare parts and accessories for Toyota vehicles are currently available in the market. You should know that Toyota does not warrant these products and is not responsible for their performance, repair, or replacement, or for any damage they may cause to, or adverse effect they may have on, your Toyota vehicle.

This vehicle should not be modified with non-genuine Toyota products. Modification with non-genuine Toyota products could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from the modification may not be covered under warranty.

### Your responsibility for maintenance

It is the owner's responsibility to make sure that the specified maintenance is performed. Section 6 gives details of these maintenance requirements. Also included in Section 6 is general maintenance. For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

## **Spark ignition system of your Toyota**

The spark ignition system in your Toyota meets all requirements of the Canadian Interference-Causing Equipment Standard.

## **Installation of a mobile two-way radio system**

As the installation of a mobile two-way radio system in your vehicle could affect electronic systems such as multiport fuel injection system/sequential multiport fuel injection system, cruise control system, anti-lock brake system, traction control system, vehicle skid control system, SRS airbag system and seat belt pretensioner system, be sure to check with your Toyota dealer for precautionary measures or special instructions regarding installation.

## **Scrappling of your Toyota**

The SRS airbag and seat belt pretensioner devices in your Toyota contain explosive chemicals. If the vehicle is scrapped with the airbags and pretensioners left as they are, this may cause an accident such as fire. Be sure to have the systems of the SRS airbag and seat belt pretensioner removed and disposed of by the qualified service shop or by your Toyota dealer before you dispose of your vehicle.

**Quick index**

- If a service reminder indicator or warning buzzer comes on ..... 116
- If your vehicle will not start ..... 236
- If your engine stalls while driving ..... 239
- If your vehicle overheats ..... 239
- If you have a flat tire ..... 240
- If your vehicle needs to be towed ..... 249
- Tips for driving during break-in period ..... 210
- How to start the engine ..... 224
- General maintenance ..... 263

**Gas station information**

**Fuel type:**

UNLEADED gasoline, Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

See page 210 for detailed information.

**Fuel tank capacity:**

70 L (18.5 gal., 15.4 Imp. gal.)

**Engine oil:**

API grade SL "Energy-Conserving" or ILSAC multigrade engine oil is recommended.

See page 277 for detailed information.

**Automatic transmission fluid:**

Toyota Genuine ATF D-II or DEXRON®III (DEXRON®II)

**Tire information:** See pages 281 through 286.

**Tire pressure:** See page 303.