

## Foreword

Welcome to the growing group of value-conscious people who drive Toyotas. We are proud of the advanced engineering and quality construction of each vehicle we build.

This Owner's Manual explains the features of your new Toyota. Please read it and follow the instructions carefully so that you can enjoy many years of safe motoring.

When it comes to service, remember that your Toyota dealer knows your vehicle best and is interested in your complete satisfaction. He will provide quality maintenance and any other assistance you may require.

**Please leave this Owner's Manual in this vehicle at the time of resale. The next owner will need this information also.**

**All information and specifications in this manual are current at the time of printing. However, because of Toyota's policy of continual product improvement, we reserve the right to make changes at any time without notice.**

**Please note that this manual applies to all models and explains all equipment, including options. Therefore, you may find some explanations for equipment not installed on your vehicle.**

**TOYOTA MOTOR CORPORATION**

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## **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 separate "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet".

## **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 either 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. Part 6 gives details of these maintenance requirements. Also included in Part 6 is general maintenance. For scheduled maintenance information, please refer to the separate "Owner's Manual Supplement/Maintenance Schedule".

## **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 and SRS airbag system, be sure to check with your Toyota dealer for precautionary measures or special instructions regarding installation.

## **On-pavement and off-road driving tips**

This vehicle will handle and maneuver differently from an ordinary passenger car because it is also designed for off-road use. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or an accident. Be sure to read "Off-road vehicle precautions" in Part 2 and "Off-road driving precautions" in Part 3.

## **Scrappling of your Toyota**

The SRS airbag devices in your Toyota contain explosive chemicals. If the vehicle is scrapped with the airbags left as they are, it may cause an accident such as a fire. Be sure to have the SRS airbag system removed and disposed of by a qualified service shop or by your Toyota dealer before you dispose of your vehicle.

**Quick index**

- If a service reminder or warning buzzer comes on ..... 52
- If your vehicle will not start ..... 131
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**Gas station information**

**Fuel type:** UNLEADED gasoline, Research Octane Number 91 (Octane Rating 87) or higher.

See page 110 for detailed information.

**Fuel tank capacity:** 95 L (25.1 gal., 20.9 Imp. gal.)

**Engine oil:**

API SH, "Energy-Conserving II" multigrade engine oil or ILSAC multigrade engine oil is recommended.

See page 158 for detailed information.

**Automatic transmission fluid:**

Automatic transmission fluid DII or DEXRON®III (DEXRON®II)

**Tire information:** See pages 161 through 164.

**Tire pressure:** See page 180.

## Part 1

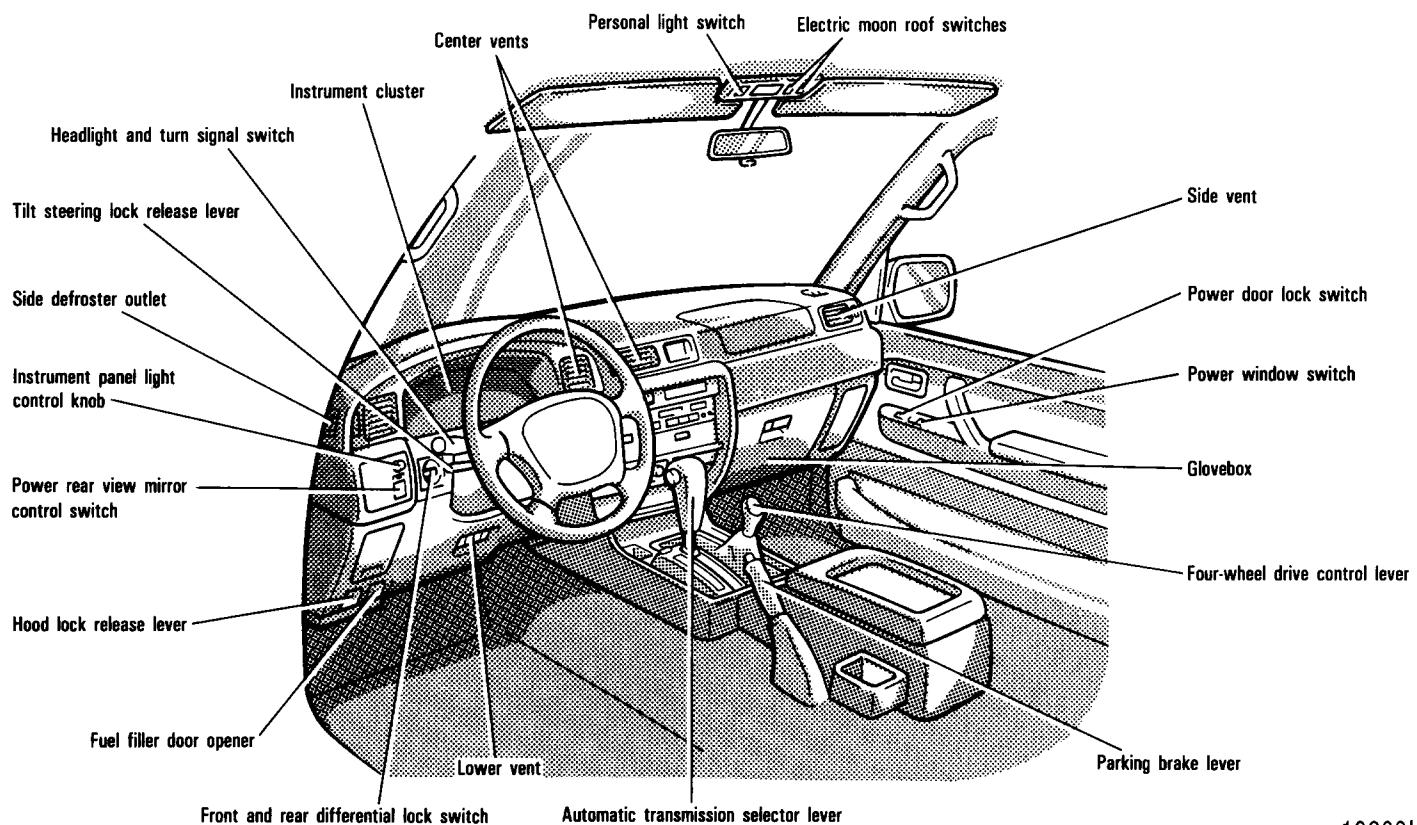
# OPERATION OF INSTRUMENTS AND CONTROLS—

## Chapter 1-1

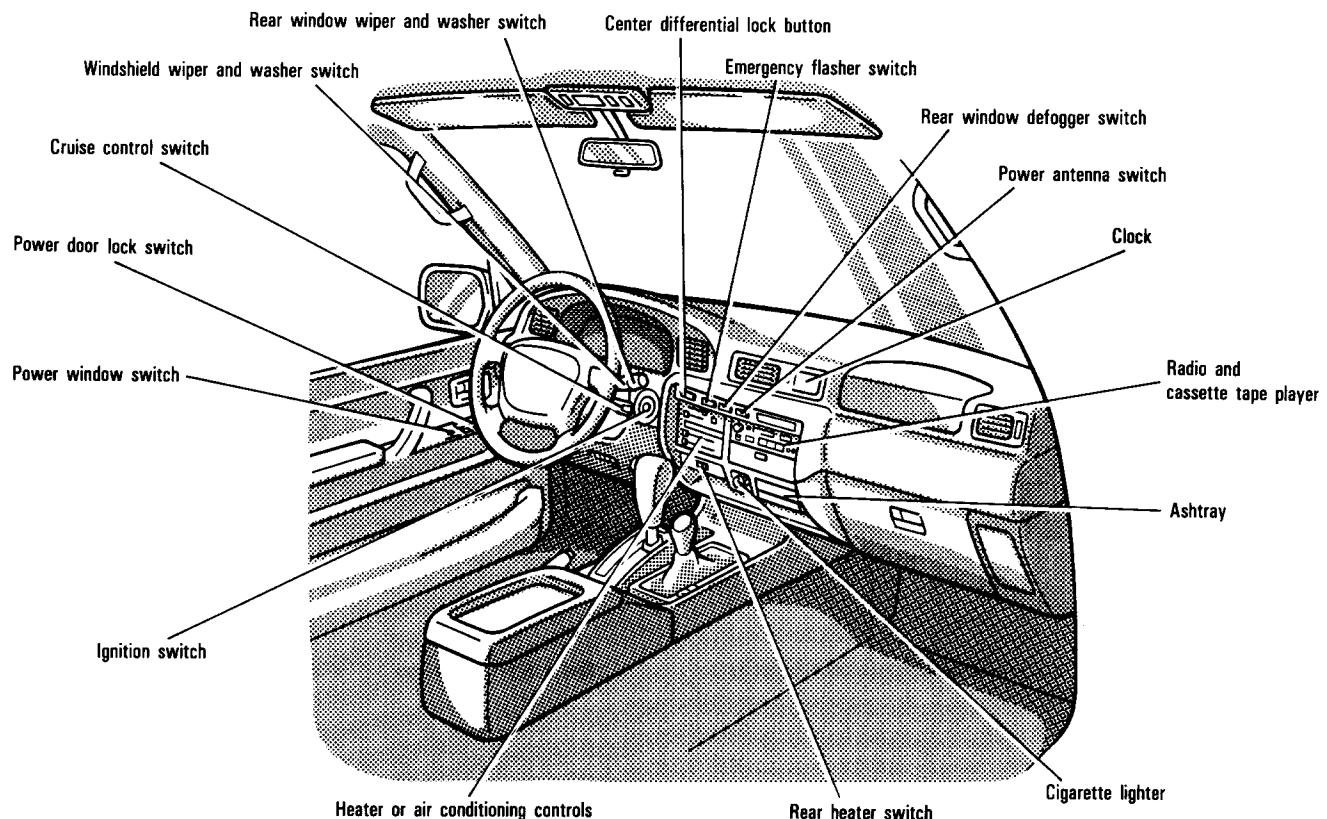
### Overview of instruments and controls

- Instrument panel overview
- Instrument cluster overview
- Indicator symbols on the instrument panel

## Instrument panel overview

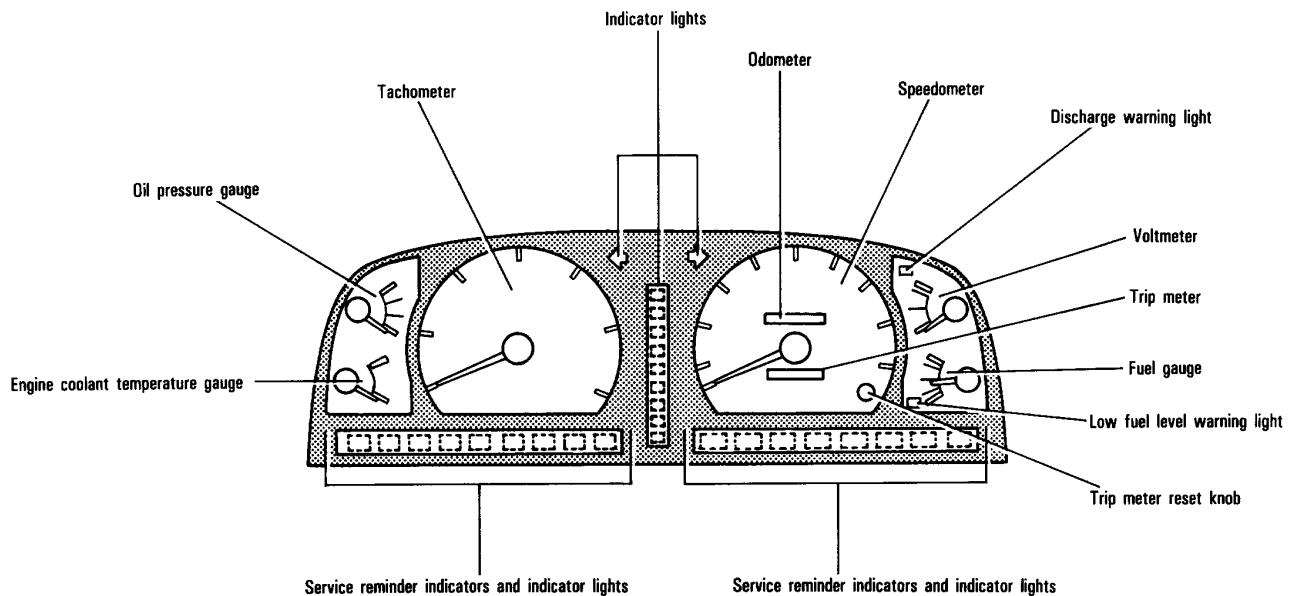


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## Instrument cluster overview



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## Indicator symbols on the instrument panel

<b>BRAKE</b>	Brake system warning light* <sup>1</sup>
	Seat belt reminder light* <sup>1</sup>
	Low oil pressure warning light* <sup>1</sup>
	Malfunction indicator lamp* <sup>1</sup>
<b>ABS</b>	Anti-lock brake system warning light* <sup>1</sup>
	Open door warning light* <sup>1</sup>
<b>A/T P</b>	Unengaged "Park" warning light* <sup>1</sup>
<b>A/T OIL TEMP</b>	Automatic transmission fluid temperature warning light* <sup>1</sup>
	SRS airbag warning light* <sup>1</sup>

	Turn signal indicator lights
	Headlight high beam indicator light
<b>O/D OFF</b>	Overdrive-off indicator light* <sup>2</sup>
<b>PWR</b>	"PWR" mode indicator light
<b>2nd STRT</b>	Automatic transmission second start indicator light
	Center differential lock indicator light
	Front differential lock indicator light
	Rear differential lock indicator light

<b>CRUISE</b>	Cruise control indicator light <sup>*3</sup>
<b>P R N D 2 L</b>	Automatic transmission indicator lights

<sup>\*1</sup>: For details, see "Service reminder indicators and warning buzzers" in Chapter 1-5.

<sup>\*2</sup>: If this light flashes, see "Automatic transmission" in Chapter 1-6.

<sup>\*3</sup>: If this light flashes, see "Cruise control" in Chapter 1-6.

# Part 1

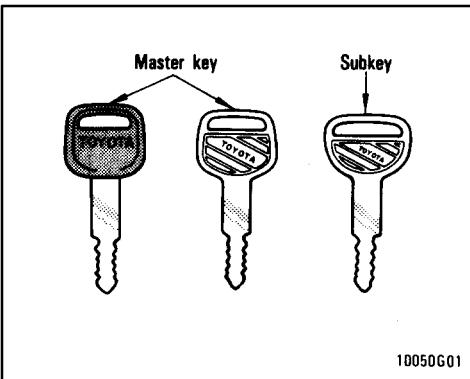
## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-2

#### Keys and Doors

- Keys
- Side doors
- Power windows
- Side windows
- Back door
- Hood
- Fuel tank cap
- Electric moon roof

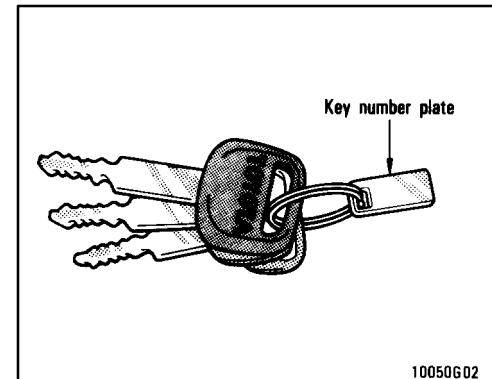
#### Keys



**The master key works in every lock.  
The subkey will not work in the glovebox.**

To protect things locked in the glovebox when you have your vehicle parked, leave the subkey with the attendant.

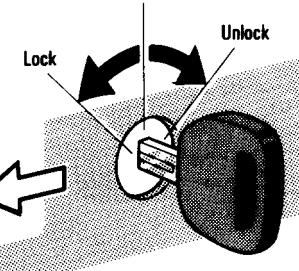
Since the side door and back door can be locked without a key, you should always carry a spare master key in case you accidentally lock your keys inside the vehicle.



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

If you should lose your key or if you need additional keys, duplicates can be made by a Toyota dealer using the key number. You should also put a copy of the key number with your important papers.

## Side doors

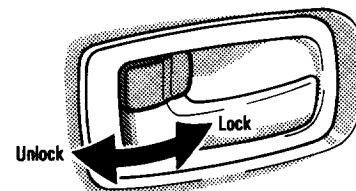


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### LOCKING WITH KEY

Turn the key towards the front of the vehicle to lock and towards the back to unlock.

On vehicles with a power door lock switch, all the side doors and back door 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 side doors and back door simultaneously.



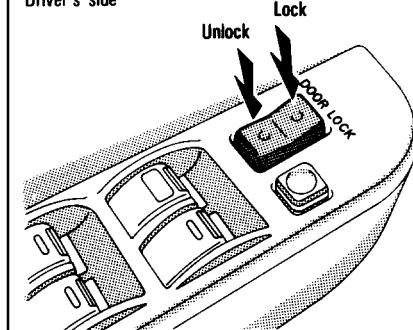
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### LOCKING WITH INSIDE LOCK KNOB

Turn the lock knob forward to lock and backward to unlock the door.

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. On vehicles with a power door lock switch, the front doors cannot be locked if you leave the key in the ignition switch.

Driver's side

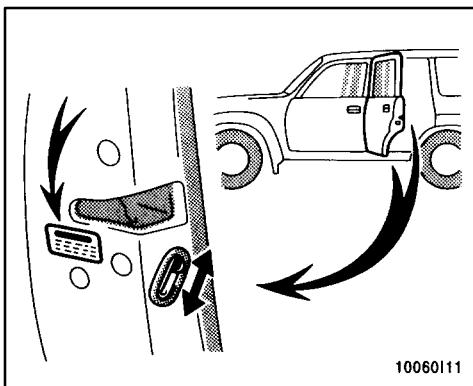
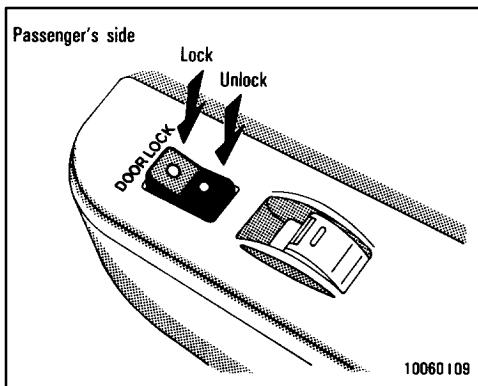


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### LOCKING WITH POWER DOOR LOCK SWITCH

To lock all the side doors and back door simultaneously, push the switch on the "DOOR LOCK" side. Pushing on the opposite side will unlock them.

When the front doors are locked from the outside, the switch will not work until either front door is unlocked with the key or lock knob.



#### REAR DOOR CHILD-PROTECTORS

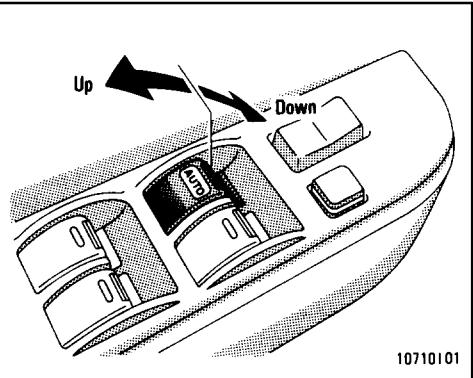
**Move the lock lever to the “LOCK” position as shown on the label.**

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.

#### ! CAUTION

Before driving, be sure that the doors are closed and locked, especially when small children are in the vehicle. Along with the proper use of seat belts, locking the doors helps prevent the driver and passengers from being thrown out from the vehicle during an accident. It also helps prevent the doors from being opened unintentionally.

## Power windows



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

The ignition key must be in the "ON" position.

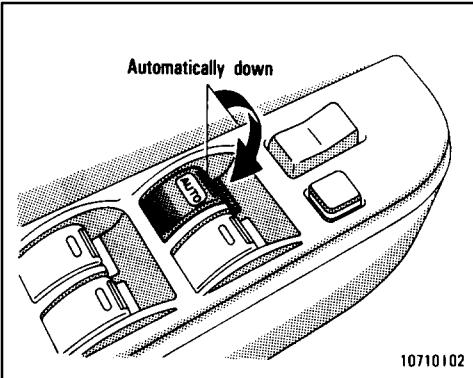
### OPERATING THE DRIVER'S WINDOW

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

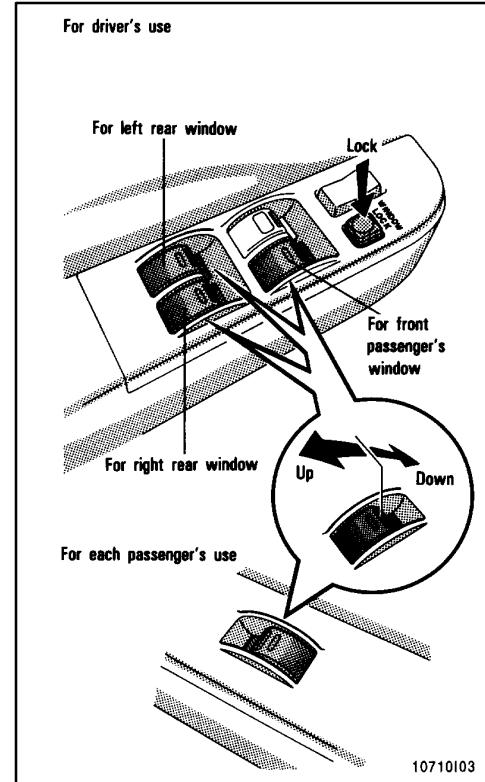
**Normal operation:** The window moves as long as you hold the switch.

To open: Lightly push down the switch.

To close: Pull up the switch.



**Automatic operation (to open only):** Push the switch completely down and then release it. The window will fully open. To stop the window partway, lightly pull the switch up and then release it.



## OPERATING THE PASSENGERS' WINDOWS

Use the switch on each passenger's door or the switches on the driver's door that control each passenger's window.

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



### CAUTION

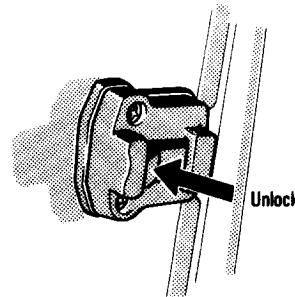
To avoid serious personal injury, you must do the following.

- Always make sure the head, hands and other parts of the body of all occupants are kept completely inside the vehicle before you close the power windows. If someone's neck, head or hands gets caught in a closing window, it could result in a serious injury. When anyone closes the power windows, be sure that they operate the windows safely.
- When small children are in the vehicle, never let them use the power window switches without supervision. Use the "WINDOW LOCK" switch to prevent them from making unexpected use of the switches.

- Never leave small children alone in the vehicle, especially with the ignition key still inserted. They could use the power window switches and get trapped in a window. Unattended children can become involved in serious accidents.

## Side windows

Type A

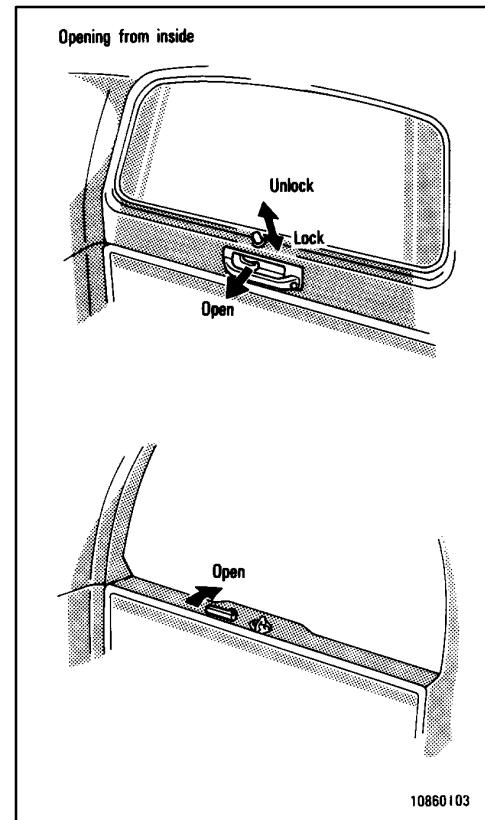
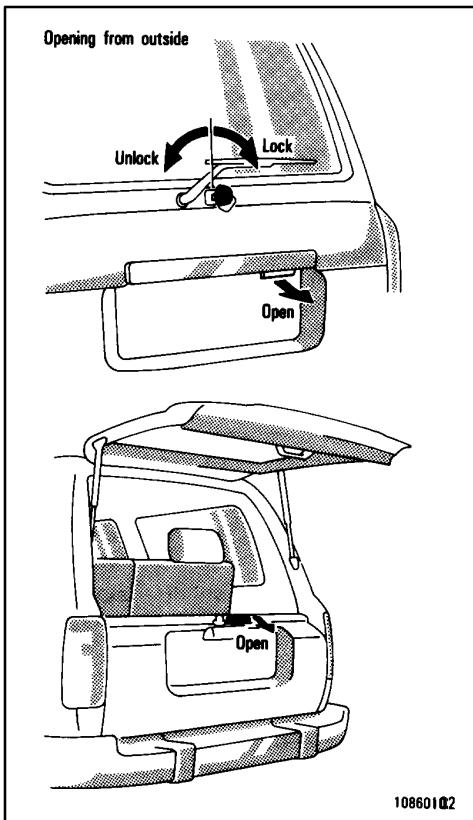
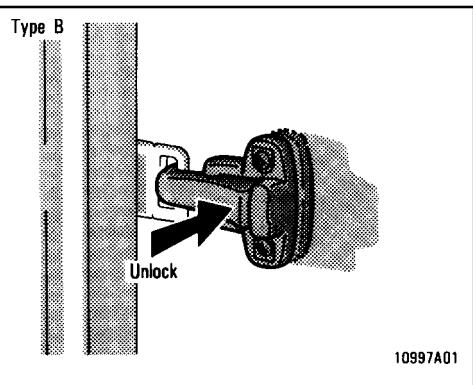


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Push the lever to unlock and slide the window.

When closing the window, make sure it is completely closed.

## Back door



## OPENING AND CLOSING

The back door can be opened as shown.

See "Luggage stowage precautions" in Part 2 for precautions to observe in loading luggage.

After closing the back door, try pulling it up to make sure it is securely closed.

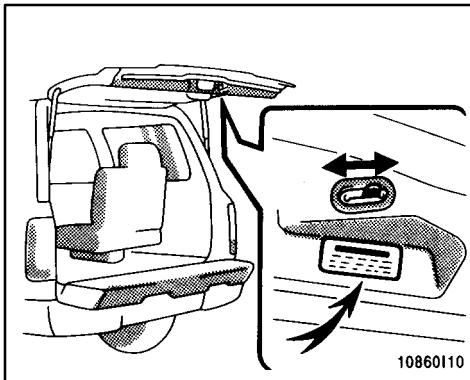
Closing the back door with the lock button pushed in will also lock the back door. Be careful not to lock your keys in the vehicle.

On switches with a power door lock switch, the back door lock will be controlled with the power door lock switch. (For instructions, see "Side doors" in this chapter.)



### CAUTION

Keep the back door closed while driving. This not only keeps the luggage from being thrown out but also prevents exhaust gases from entering the vehicle.



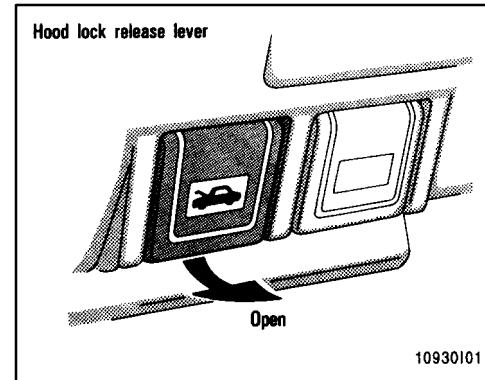
### BACK DOOR CHILD-PROTECTOR

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

This feature allows you to lock a back 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.

## Hood

Hood lock release lever

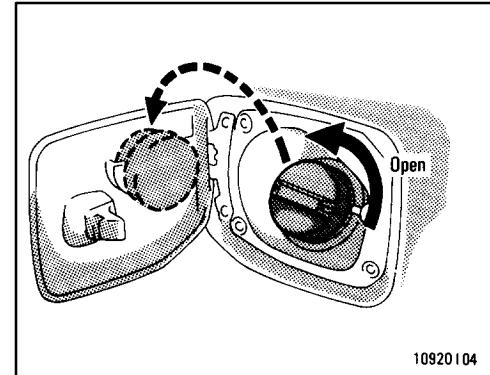
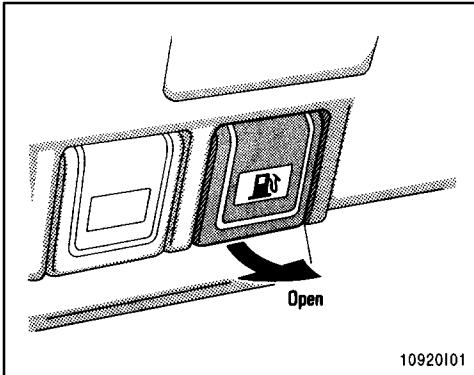
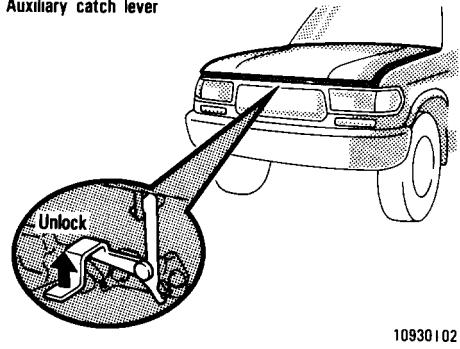


To open the hood, pull the hood lock release lever under the dash. The hood will spring up slightly. In front of the vehicle, press up on the auxiliary catch lever and lift the hood.

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.

## Fuel tank cap

Auxiliary catch lever



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



- Do not smoke, cause sparks or allow open flames when refuelling. 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.

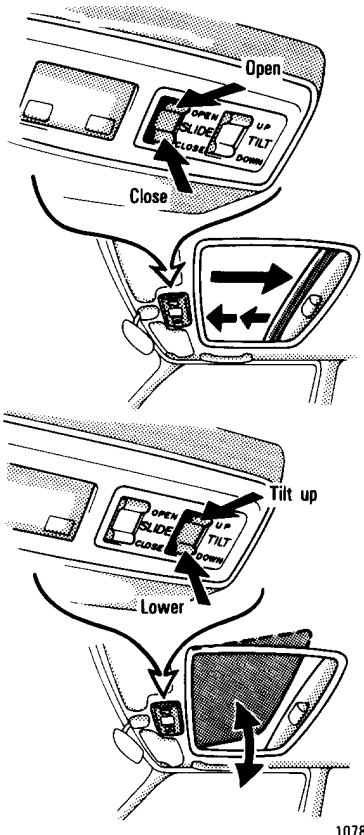
2. To remove the fuel tank cap, turn the cap slowly counterclockwise, then pause slightly before removing it. After removing the cap, hang it on the cap hanger.

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.



- Make sure the cap is tightened securely to prevent fuel spillage in case of an accident.
- Use only a genuine Toyota fuel tank cap for replacement. It has a built in check valve to reduce fuel tank vacuum.

## Electric moon roof



To slide open or close the moon roof, push the switch on the "OPEN" or "CLOSE" side. To tilt up or lower the rear end of the moon roof, push the switch on the "UP" or "DOWN" side.

The ignition key must be in the "ON" position.

The moon roof will move while the switch is being pushed and stop when released. However, as a precaution when closing, it stops at the three-quarters closed position before fully closing. Therefore, release the switch and then push it again to close it completely.

The sun shade can be opened or closed manually. However, if you open the moon roof, the sun shade will be opened together with the moon roof.

- 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 become involved in serious accidents.
- Never sit on top of the vehicle around the roof opening.



### CAUTION

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

- While the vehicle is moving, always keep the head, hands and other parts of the body of all occupants away from the roof opening. Otherwise, you could be seriously injured if the vehicle stops suddenly or if the vehicle is involved in an accident.



# Part 1

## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-3 Seats, Seat belts, Steering wheel and Mirrors

- Seats
- Front seats
- Rear seats
- Head restraints
- Seat belts
- SRS airbags
- Child restraint
- Tilt steering wheel
- Outside rear view mirrors
- Anti-glare inside rear view mirror
- Vanity mirrors

#### 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 with the vehicle occupants not properly seated, such as sitting on top of a folded-down seatback, or in the luggage compartment. Persons not properly seated and restrained by seat belts can be severely injured in the event of emergency braking or a collision.
- During driving, do not let passengers stand up or move around between seats. Balance can be unsteady and severe injuries can occur in the event of emergency braking or a collision.



#### CAUTION

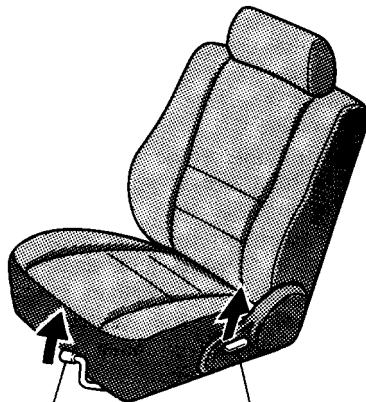
- Adjustments should not be made while the vehicle is moving, as the seat may unexpectedly move and cause the driver to lose control of the vehicle.
- When adjusting the seat, be careful not to hit the seat against a passenger or luggage.
- After adjusting the seat position, try sliding it forward and backward to make sure it is locked in position.
- After adjusting the seatback, exert body pressure to make sure it is locked in position.
- Do not put objects under the seats as they may interfere with the seat-lock mechanism or unexpectedly push up the seat position adjusting lever; 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. You may jam your hands or fingers.

#### Front seats—

#### —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.

## —Adjusting front seats (manual type)



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### ADJUSTING SEAT POSITION

Pull the lock release lever up. Then slide the seat to the desired position with slight body pressure and release the lever.

### ADJUSTING SEATBACK ANGLE

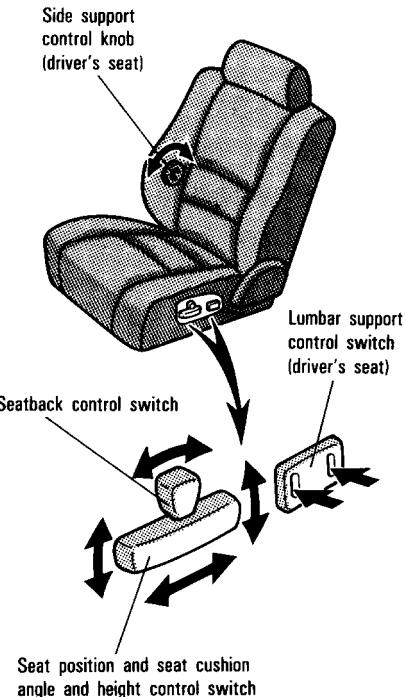
Lean forward and pull the lock release lever. Then lean back to the desired angle and release the lever.



#### CAUTION

To reduce the risk of sliding under the lap belt during a collision, avoid reclining the seatback any more than needed. The seat belts provide maximum protection when the driver and the passenger are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen. Therefore, in the event of a frontal collision, the risk of personal injury may increase with increasing recline of the seatback.

## —Adjusting front seats (power type)



10109107

## ADJUSTING SEAT POSITION

**Move the control switch to the desired direction.**

Releasing the switch will stop the move in that position.

Do not place anything under the front seats. It might interfere with the seat movement.

## ADJUSTING SEATBACK ANGLE

**Move the control switch to the desired direction.**

Releasing the switch will stop the move in that position.



### CAUTION

To reduce the risk of sliding under the lap belt during a collision, avoid reclining the seatback any more than needed. The seat belts provide maximum protection when the driver and the passenger are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen. Therefore, in the event of a frontal collision, the risk of personal injury may increase with increasing recline of the seatback.

## ADJUSTING SEAT CUSHION ANGLE AND HEIGHT

**Move the control switch to the desired direction.**

Releasing the switch will stop the move in that position.

## ADJUSTING DRIVER'S SEAT LUMBAR SUPPORT

**Move the control switch to the desired direction.**

Releasing the switch will stop the move in that position.

## ADJUSTING DRIVER'S SEAT SIDE SUPPORT

**Turn the knob either way.**

## Rear seats—

### —Rear seat precautions

To fold or remove the rear seats, operate the seats as illustrated below. Reverse the procedure to return them. Be sure to follow every indicated step exactly.



### CAUTION

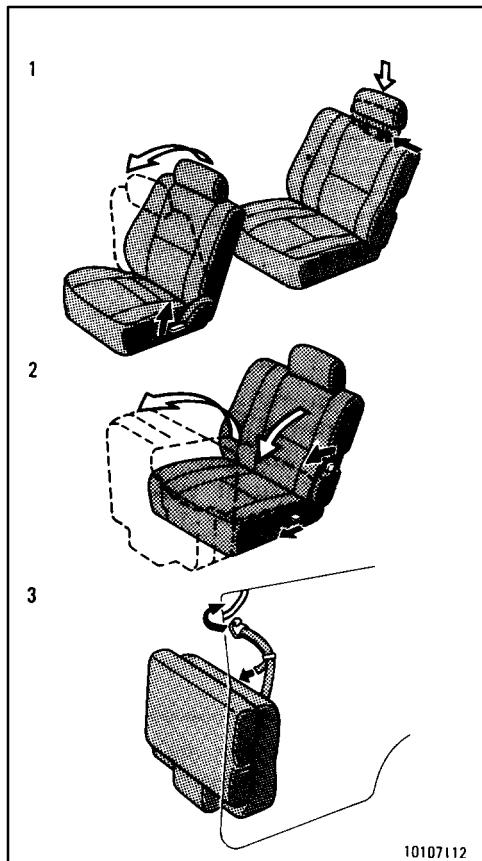
- Any operations should not be made while the vehicle is moving.
- When returning seats to their original position:

Make sure the seat belts are not twisted or caught under the seat and are arranged in their proper position for ready use.

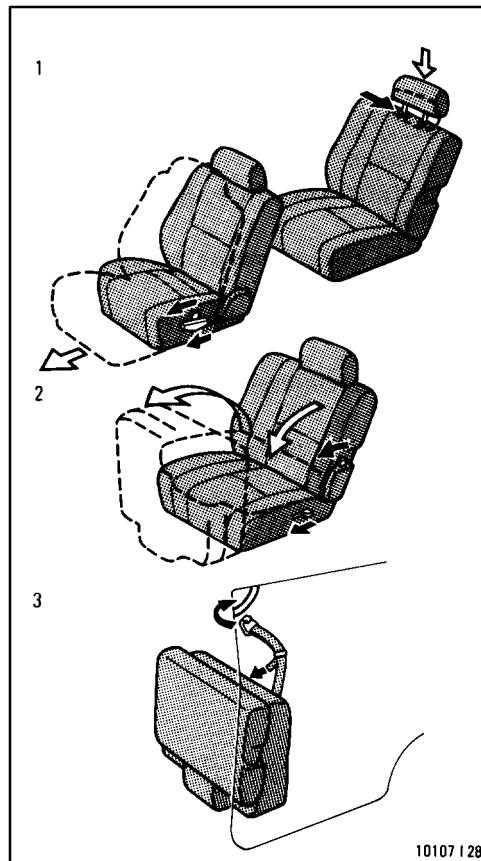
Make sure the seat is securely locked by pushing forward and rearward on the top of the seatback or by trying to pull up the edge of the bottom cushion.

Folding up or removing the seats will enlarge the luggage compartment. See "Luggage stowage precautions" in Part 2 for precautions to observe in loading luggage.

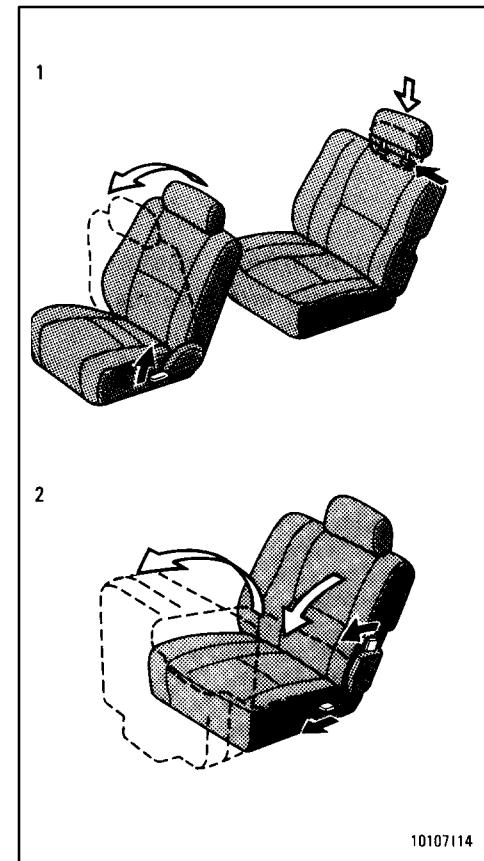
—Folding second seat up  
(manual type)



—Folding second seat up  
(power type)

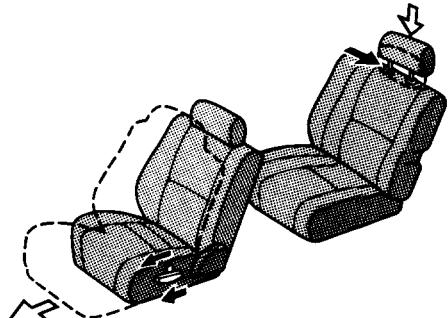


—Folding second seat for  
third seat entry (manual type)

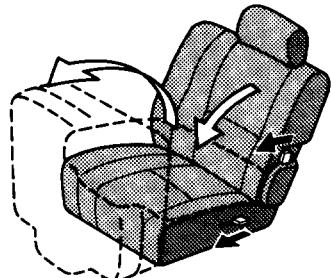


—Folding second seat for third seat entry (power type)

1



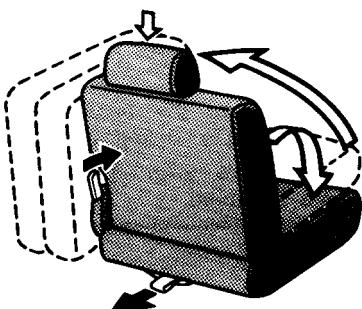
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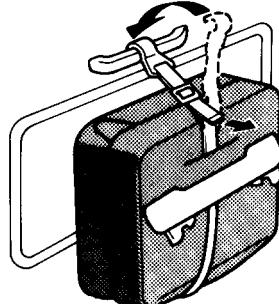
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—Folding third seat up

1



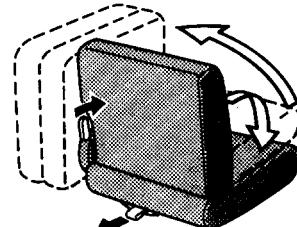
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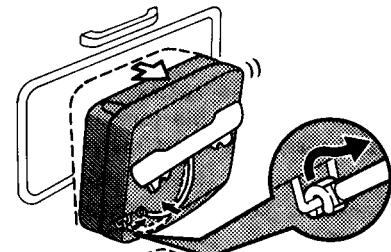
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—Removing third seat

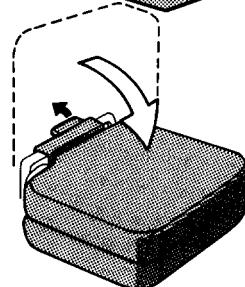
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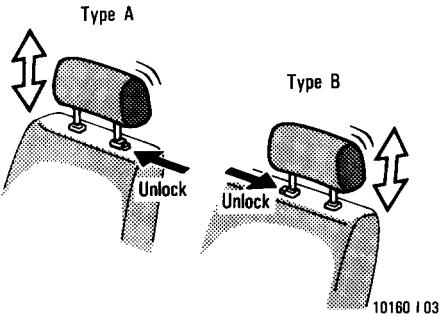


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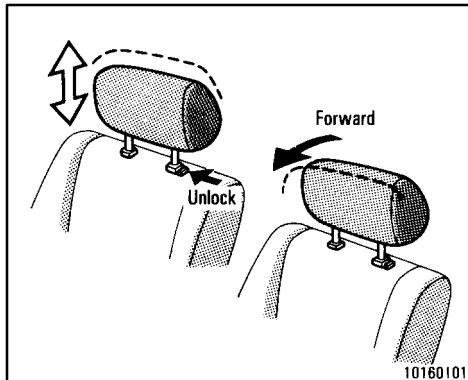
## Head restraints (vertically adjustable type)



**To raise the head restraint, pull it up.  
To lower it, press the lock release button and push the head restraint down.**

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

## Head restraints (vertically and longitudinally adjustable type)



**To raise the head restraint, pull it up.  
To lower it, press the lock release button and push the head restraint forward, pull on the top.**

Pulling the top of the head restraint as far as it can go will return it to the upright position.

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



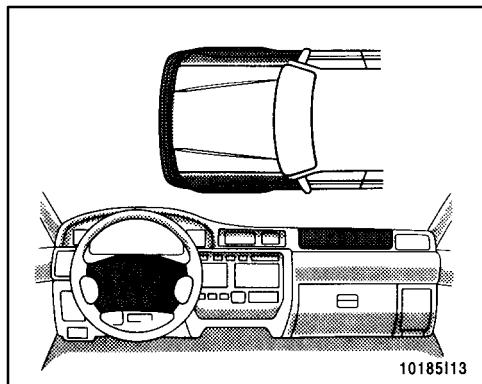
### CAUTION

- Adjust the top 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.



### CAUTION

- Adjust the top 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.



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

- The SRS airbag has been inflated.
- The front part of the vehicle (shaded in the illustration) was involved in an accident not of the extent to cause the SRS 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.

## Child restraint—

### —Child restraint precautions

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

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



#### CAUTION

**For effective protection in automobile accidents and sudden stops, children must be properly restrained. 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 if you are unrestrained.**

## —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.

The child restraint system should conform to the size of the child and properly fit the vehicle seat. For greater safety, the child restraint system should be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.

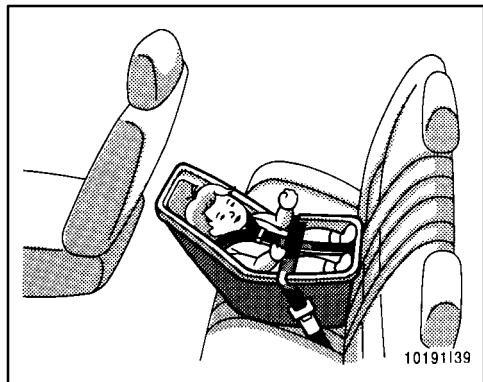
When installing a child restraint system, follow the instructions provided by the manufacturer of the system. General directions are also provided under the following illustrations.



#### CAUTION

**After installing the child restraint system, make sure it is secured in place. If it is not restrained securely, it may cause injury to the child in the event of a sudden stop or accident.**

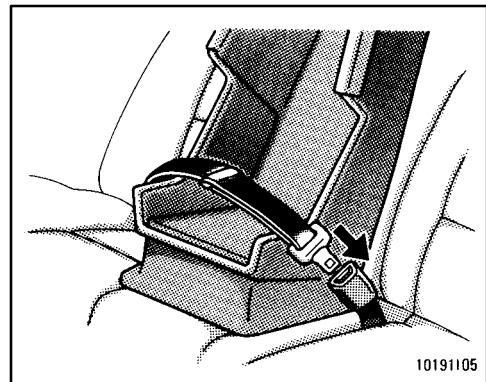
When not using the child restraint system, keep it secured with the seat belt or place it somewhere other than in passenger compartment. This will prevent it injuring passengers in the event of a sudden stop or accident.



#### (A) INSTALLATION ON REAR SEAT CENTER

Do not use a child restraint system which requires the use of a top strap in the second seat center position.

When installing a rear-facing child restraint system, follow the same procedure as when installing a forward-facing child restraint system.

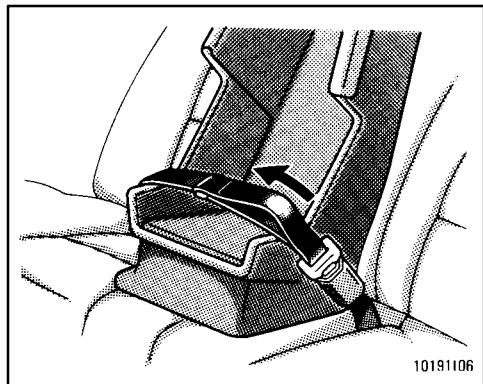


1. Fasten the center lap belt over the child restraint system following the instructions provided by its manufacturer.

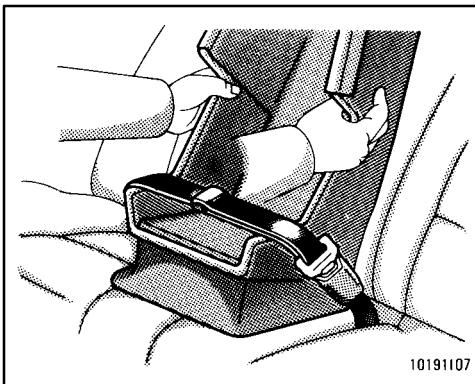


**! CAUTION**

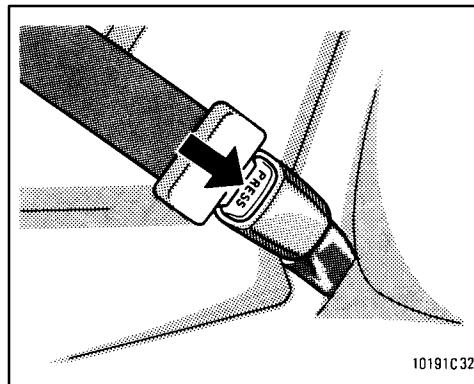
- After inserting the tab, make sure the tab and buckle are locked.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Toyota dealer.



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10191107



10191C32

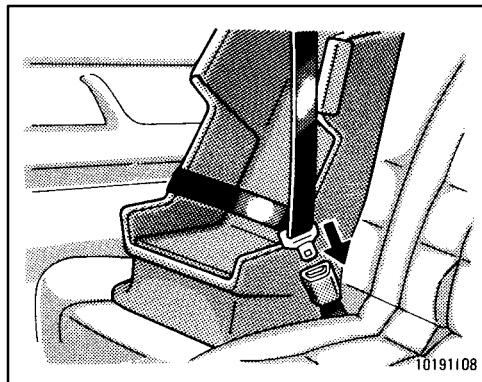
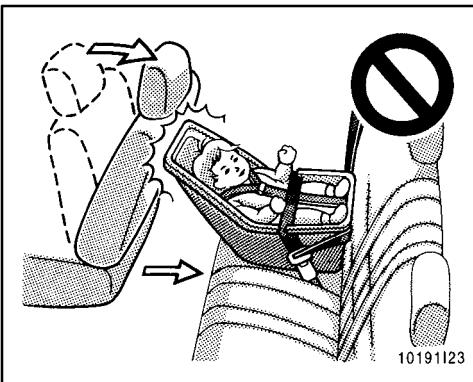
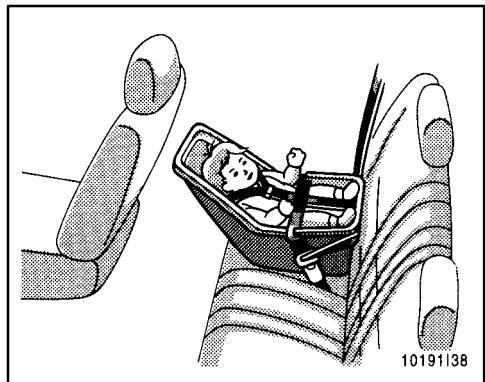
2. Make sure the belt is tight by pulling its free end while you firmly push down the child restraint system.



**CAUTION**

**Push and pull the child restraint system in different directions to be sure it is secure.**

3. To remove the child restraint system, press the buckle-release button and unhook the top strap.



## (B) INSTALLATION ON REAR SEAT OUTSIDE

Do not use a child restraint system which requires the use of a top strap in the second seat outside position.

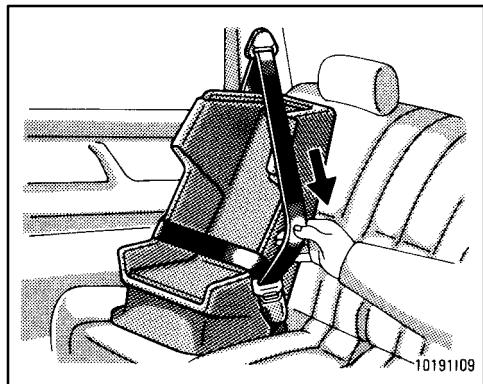
When installing a rear-facing child restraint system, follow the same procedure as when installing a forward-facing child restraint system.

### ! CAUTION

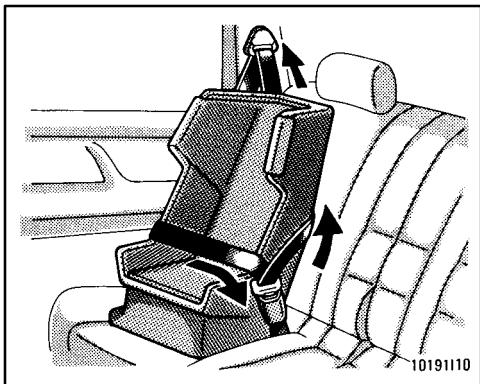
**Do not use a rear-facing child restraint system in the rear seat if it interferes with the lock mechanism of the front seats. This may cause severe injury to the child and front passengers in case of sudden braking or a collision.**

### ! CAUTION

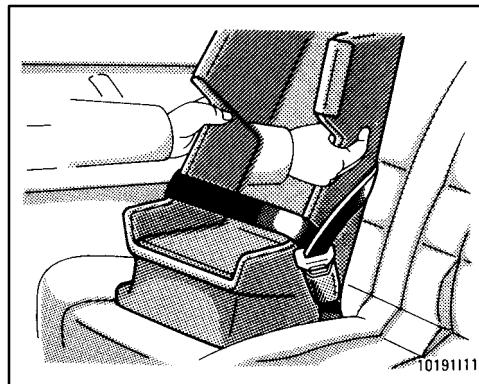
- After inserting the tab, make sure the tab and buckle are locked.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Toyota dealer.



2. Fully extend the shoulder belt to put it in the lock mode.

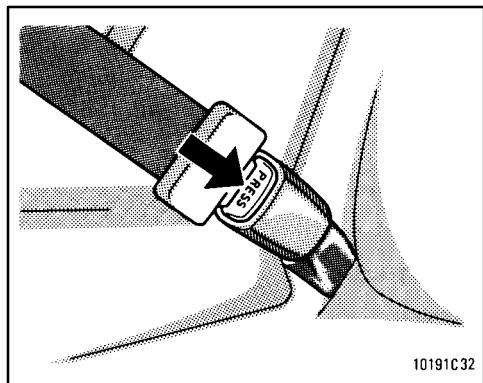


3. Place the shoulder belt between the vehicle seatback and the child restraint system and allow it to retract. To hold the child restraint system securely, let the shoulder belt retract as far as it will go while firmly pushing down the child restraint system.

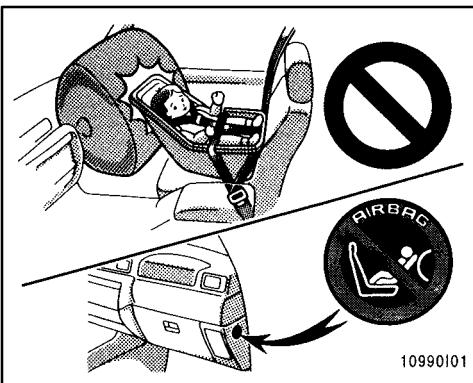


**! CAUTION**

**Make sure the seat belt is securely locked. Also make sure the child restraint system is secure by pushing and pulling it in different directions.**

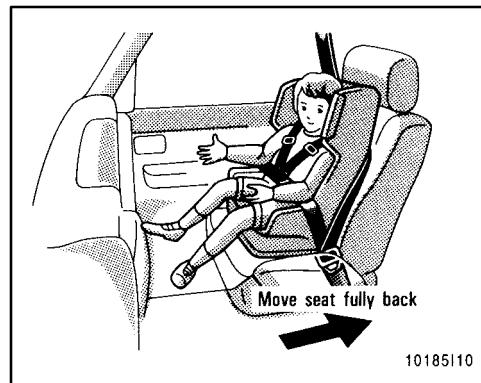


4. To remove the child restraint system, press the buckle-release button and allow the belt to retract. Unhook the top strap.



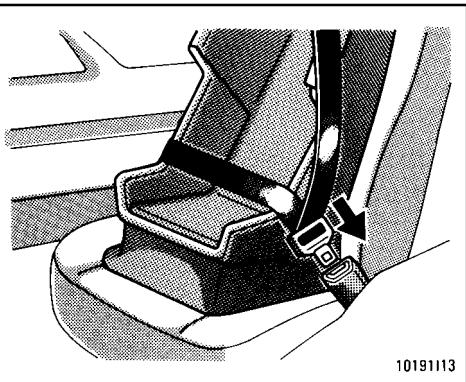
#### (C) INSTALLATION ON FRONT SEAT

Do not use a child restraint system which requires the use of a top strap in the front seat.



- When using a forward-facing child restraint system, move the seat as far back as possible.





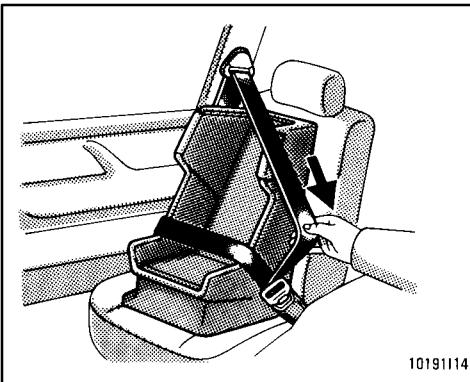
10191113

1. Fasten the lap and shoulder belt over the child restraint system following the instruction provided by its manufacturer. Keep the lap portion of the belt tight.



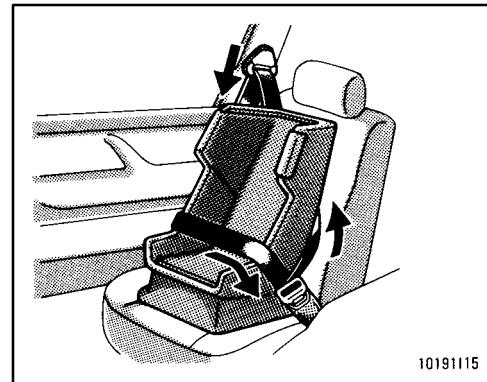
#### CAUTION

- After inserting the tab, make sure the tab and buckle are locked.
- 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.



10191114

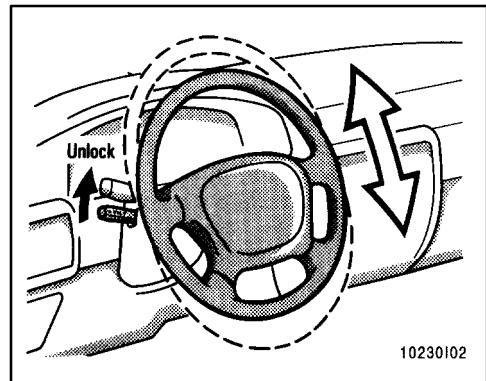
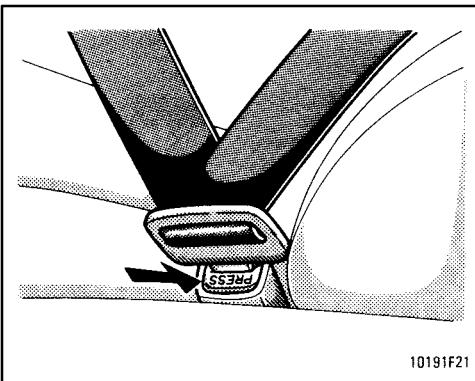
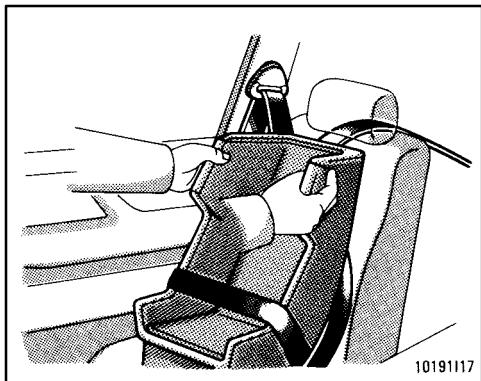
2. Fully extend the shoulder belt to put in the lock mode.



10191115

3. Place the shoulder belt between the vehicle seatback and the child restraint system and allow it to retract. To hold the child restraint system securely, let the shoulder belt retract as far as it will go while firmly pushing down the child restraint system.

## Tilt steering wheel



### CAUTION

Make sure the seat belt is securely locked. Also make sure the child restraint system is secure by pushing and pulling it in different directions.

4. To remove the child restraint system, press the buckle-release button and allow the belt to retract. Unhook the top strap.

**To change the steering wheel angle, hold the steering wheel, pull up the lock release lever, 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.



### CAUTION

- Do not adjust the steering wheel while the vehicle is moving.
- After adjusting the steering wheel, try moving it up and down to make sure it is locked in position.

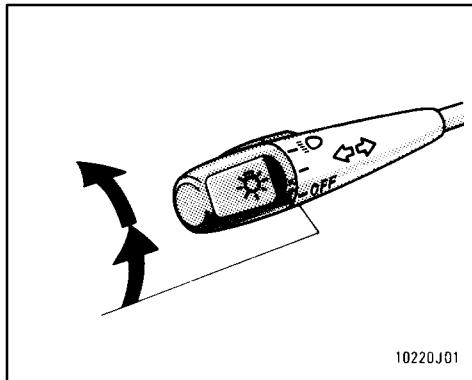
# Part 1

## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-4 Lights, Wipers and Defogger

- Headlight and turn signals
- Emergency flashers
- Instrument panel light control
- Ignition switch light
- Interior lights
- Personal light
- Windshield wipers and washer
- Rear window wiper and washer
- Rear window defogger

#### Headlights and turn signals



#### NOTICE

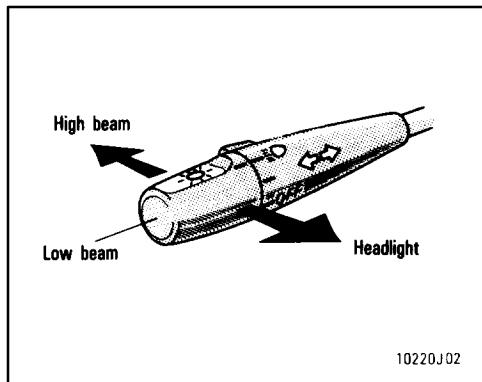
*To prevent the battery from being discharged, do not leave the lights on for a long period when the engine is not running.*

**To turn the lights on, twist the knob on the end of the lever.**

**FIRST CLICKSTOP:** Only the parking, side marker, tail, license plate and instrument panel lights turn on.

**SECOND CLICKSTOP:** The headlights also turn on.

The lights automatically turn off when the driver's door is opened with the ignition turned off. To turn them on again, turn the 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.

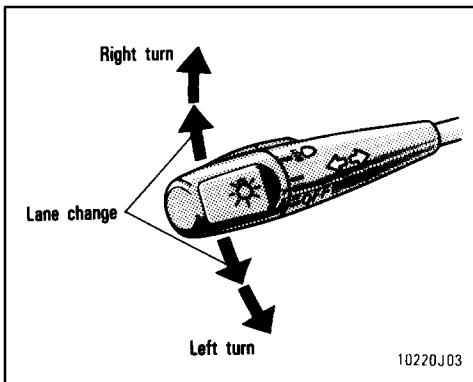


10220J02

**For high beam, push the lever away from you. Pull it toward you for low beam. For the headlight flasher, pull it further back.**

A blue light in the instrument panel indicates high beam is on.

The headlight flasher works even when the headlight switch is off.

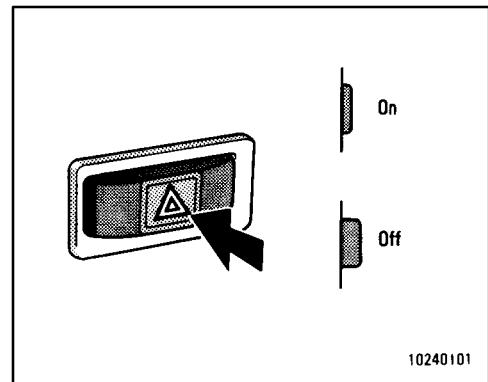


10220J03

**For signaling turns, move the lever up or down in the conventional manner.**

The key must be in the "ON" position. The turn signal is self-cancelling after a turn, but after a lane change, you may have to cancel it by hand. You can also signal a lane change by moving the turn signal lever partway and holding it there. If the green light in the instrument panel flashes faster than normal, it indicates that the front or rear turn signal bulb has burned out.

## Emergency flashers



10240J01

**To turn on the emergency flashers, push the switch.**

All the turn signal lights will flash.

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

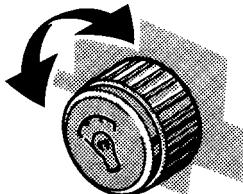
Always pull your vehicle as far off the road as possible.

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.***

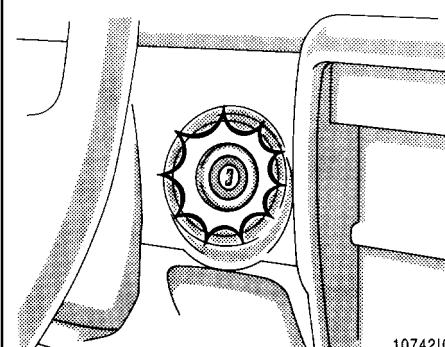
## Instrument panel light control



10420102

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

## Ignition switch light

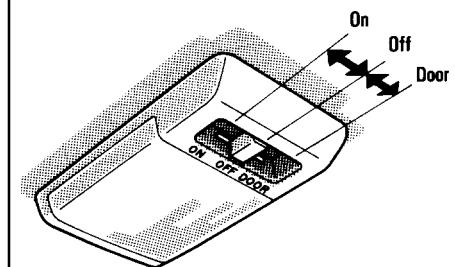


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For easy access to the ignition switch, the ignition switch light comes on when the driver's door is opened.

The light remains on for a certain time after the driver's door is closed.

## Interior lights

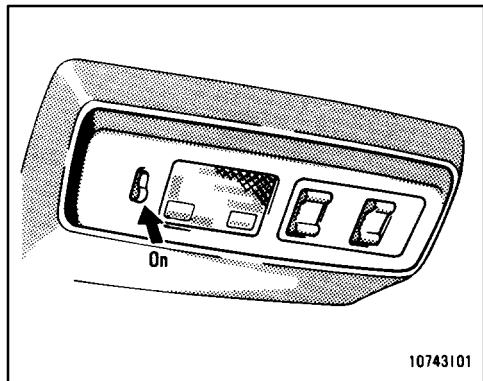


10740101

To turn on the interior light, slide the switch.

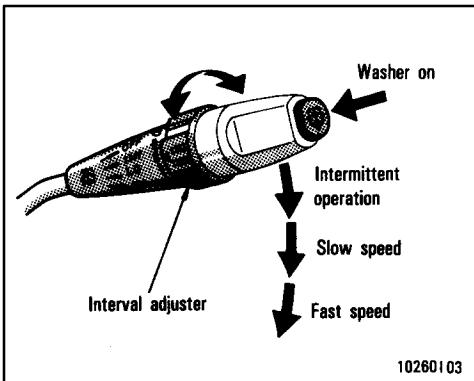
With the switch in the "DOOR" position, the light comes on when any of the side doors are opened.

## Personal light



To turn on the personal light, push the switch.

## Windshield wipers and washer



To turn the wipers on, move the lever. To make the washer squirt, push the button on the end of the lever.

The key must be in the "ON" position. The wipers will operate at intervals when the lever is in the "INT" position. With the lever in this position, the wipers can be adjusted to operate at intervals of 2 to 11 seconds depending on the interval adjuster setting between "S" and "F".

Also, the wipers will automatically operate a couple of times after the washer squirts even with the lever in the "OFF" position.

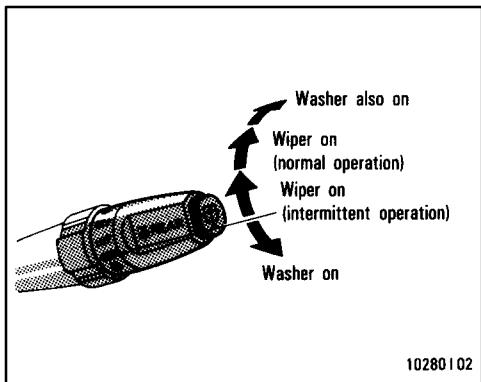
If the washer does not work, check to see whether the washer tank is empty. For information on adding washer fluid, see "Adding washer fluid" in chapter 7-3.

In cold weather, warm the windshield with the defroster before using the washer. This will help prevent icing, which could block your vision.

### NOTICE

*Do not operate the wipers if the windshield is dry. It may scratch the glass.*

## Rear window wiper and washer



To turn the rear window wiper and washer on, twist the knob at the end of the lever.

The key must be in the "ON" position. The wiper will operate at intervals when the knob is in the "INT" position.

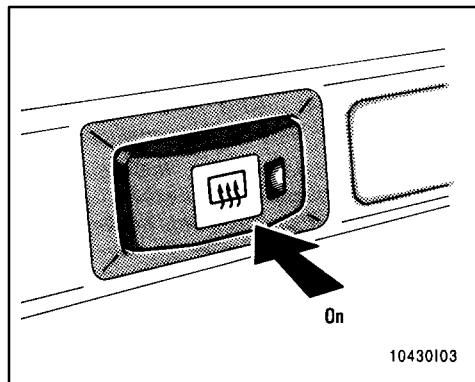
The washer squirts at the two marked knob positions. The knob will automatically return from these positions when it is released.

If the washer does not work, check to see whether the washer tank is empty. For information on adding washer fluid, see "Adding washer fluid" in Chapter 7-3.

### NOTICE

***Do not operate the rear window wiper if the rear window is dry. It may scratch the glass.***

## Rear window defogger



To defog or defrost the back window, push the switch.

The key must be in the "ON" position. The thin heater wires on the inside of the back window will quickly clear the surface. An indicator light will illuminate to indicate the defogger is operating.

Push the switch once again to turn the defoggers off.

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.

### NOTICE

- ◆ To prevent the battery from being discharged, turn the switch on when the engine is running.
- ◆ When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires.



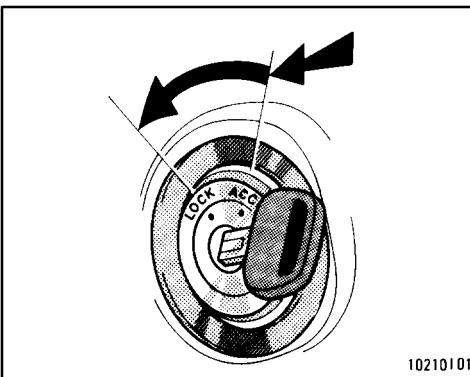
# Part 1

## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-6 Ignition switch, Transmission and Parking brake

- Ignition switch with steering lock
- Automatic transmission
- Four-wheel drive system
- Front and rear differential lock system
- Parking brake
- Cruise control

#### Ignition switch with steering lock



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

For starting tips, see Part 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.

To turn the key from “ACC” to the “LOCK” position, you must put the selector lever in the “P” position.

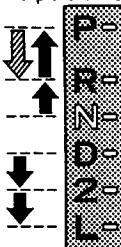
When starting the engine, the key may seem stuck at the “LOCK” position. To free it, first be sure the key is pushed all the way in, and then rock the steering wheel slightly while turning the key gently.

#### 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

Lock release button  
To prevent misshifting

 P — Parking, engine starting and key removal position

R — Reverse position

N — Neutral position

D — Normal driving position

2 — Position for engine braking

L — Position for stronger engine braking than that in "2" position  
With the brake pedal depressed, shift while holding the lock release button in. (The ignition switch must be in "ON" position.)

Shift while holding the lock release button in

Second start mode select button  
For selecting either second start mode or normal driving mode



"2nd STRT" mode indicator light on the instrument panel shows in the second start mode

2nd  
STRT

Overdrive switch  
For selecting either a three-speed or four-speed transmission

"ON" position (Shifting into overdrive possible)

"OFF" position (Shifting into overdrive not possible)

"O/D OFF" indicator light on the instrument panel shows the overdrive switch is off.



O/D  
OFF

Driving pattern selector button  
For selecting a driving pattern suited to existing driving conditions

"PWR" (Power) mode for powerful acceleration

Normal mode for general driving conditions

"PWR" mode indicator light on the instrument panel shows the driving pattern selector button is in the "PWR" mode



PWR

20040113

When the cruise control is being used, even if you downshift the transmission, engine braking will not be applied because the cruise control is not canceled. For ways to decrease the vehicle speed, see "Cruise control" in this chapter.

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) Normal driving

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

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

#### (b) Using engine braking

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

- Turn off the overdrive switch. The "O/D OFF" indicator light will come on and the transmission will downshift to the third gear.
- Shift into the "2" position. The transmission will downshift to the second gear when the vehicle speed drops down to or lower than the maximum allowable speed for second gear, and more powerful engine braking will be obtained.
- Shift into the "L" position. The transmission will downshift to the first gear when the vehicle speed drops down to or lower than the maximum allowable speed for "L" position and maximum engine braking will be applied.

When the cruise control is being used, even if you downshift the transmission, engine braking will not be applied because the cruise control is not cancelled. For ways to decrease the vehicle speed, see "Cruise control" in this chapter.

#### MAXIMUM ALLOWABLE SPEEDS

km/h (mph)

Transmission	Transfer	L	H
2	44 (27)	109 (67)	
L	22 (13)		56 (34)



#### CAUTION

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

#### NOTICE

◆ *Be careful not to overrev the engine. Watch the tachometer to keep engine rpm from going into the red zone. The maximum allowable speed (approximate) for each position is given above for your reference.*

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

### (c) 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.**

### (d) Parking

1. Bring the vehicle to a complete stop.
2. Pull the parking brake lever up fully to securely apply the parking brake.
3. With the brake pedal pressed down, shift the selector lever to the "P" position. If the four-wheel drive control is in the "N" position while the selector lever is in the "P" position, the transmission will disengage and the wheels will not lock.



#### CAUTION

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

### (e) Good driving practice

- If the transmission is repeatedly upshifted and downshifted between third gear and overdrive when climbing a gentle slope, the overdrive switch 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.**

### (f) Driving in "PWR" (Power) mode

In the "PWR" mode, the transmission is shifted up and down at a higher vehicle speed than in the Normal mode and a more powerful acceleration is achieved. To set the "PWR" mode, push in the driving pattern selector button. The "PWR" mode indicator light comes on.

For ordinary driving, Toyota recommends using the Normal mode to improve fuel economy.

### (g) 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 Part 4.

### (h) If the "O/D OFF" indicator light flashes

Contact your Toyota dealer as soon as possible. There may be trouble in the transmission system.

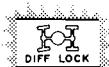
### (i) Driving in "2nd STRT" (second start) mode

In the "2nd STRT" (Second start) mode, the transmission system shifts up from second gear. Use this mode when starting your vehicle in sand, mud, ice or snow.

To set the "2nd STRT" mode, push the "2nd" button. In the "2nd STRT" mode, the "2nd STRT" indicator light comes on.

The "PWR" mode is automatically cancelled when you push the "2nd" button.

## Four-wheel drive system— (a) Four-wheel drive control



Indicator light



20045105

**Use the four-wheel drive control lever to select the following transfer modes.**

**“H” (high speed position, center differential unlocked):** Lever at “H”

Use this for normal driving on all types of roads, from dry hard-surfaced roads to wet, icy or snow-covered roads. This position gives greater economy, quietest ride, least wear and better vehicle control.

**“N” (neutral position):** Lever at “N”

No power is delivered to the wheels. The vehicle must be stopped.

**“L” (low speed position, four-wheel drive):** Lever at “L”

Use this for maximum power and traction, when you experience a loss of power, such as wheel slipping or hard pulling, in the “H” position.

The indicator light tells when the center differential lock is engaged. Note that the differential is not still locked as long as the indicator light remains off.

If the indicator light does not come on when the lever is in the “L” position, have your vehicle checked by your Toyota dealer as soon as possible.

See “(b) Shifting procedure (with anti-lock brake system)” for further instructions.

In this position, the anti-lock brake system does not operate. See “Brake system” in Part 2.

## (b) Shifting procedure

To shift between “H” and “L”, stop the vehicle, put the transmission into “P” or “N” and move the four-wheel drive control lever.



**CAUTION**

**Never move the four-wheel drive control lever if wheels are slipping. Stop the slipping or spinning before shifting.**

## Front and rear differential lock system



20048101

The front and rear differential lock system is provided for use only when wheel spinning occurs in a ditch or on a slippery or ragged surface.

This differential lock system is effective in case one or either right or left pair of the wheels are spinning.

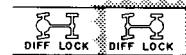
First shift the four-wheel drive control into "L" with the center differential locked to see if you can move forward. If this does not work, use the front and rear differential lock system also.



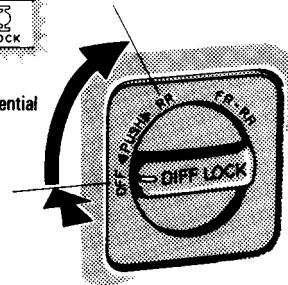
### CAUTION

Do not use the front and rear differential locks in the conditions other than above. Large steering effort and careful cornering control will be required. Especially use of the front differential lock in addition to the rear will result in extremely difficult steering control and may cause the vehicle to spin suddenly during acceleration or engine braking.

#### Indicator lights



Lock rear differential

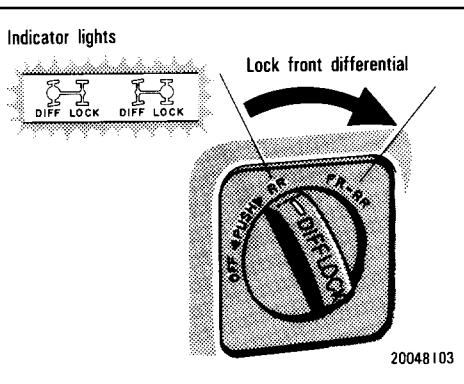


20048102

To lock the rear differential, push and turn the switch clockwise until it clicks. If this does not help, turn the switch fully clockwise to lock the front differential in addition.

Be sure to stop the wheels before locking the differentials.

For easy locking, turn the lock switch and gently depress the accelerator pedal.



The indicator light will blink when the switch is turned on. Wait a few seconds for the system to complete operation. After the differential is locked, the light will stop blinking and remain on.



#### CAUTION

- Do not lock the differentials until the wheels have stopped spinning. Otherwise, the vehicle may move in an unexpected direction when the differential locks are engaged, resulting in an accident. This may also lead to possible damage to differential lock component parts.

- Do not drive over 8 km/h (5 mph) when the differentials are locked.

To unlock the differentials, turn the switch fully counterclockwise.

Unlock the differentials as soon as the vehicle moves out.

For easy unlocking, slightly turn the steering wheel in either direction while the vehicle is in motion.

When each of the differential locks is disengaged, the indicator light will go out.

The differentials will also unlock if you unlock the center differential. Never forget to turn off the switch after using this feature.

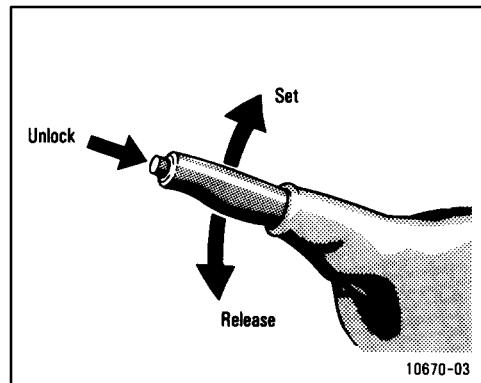
To check the indicator bulb, turn the ignition key to the "ON" position, but do not start the engine.



#### CAUTION

- Do not keep driving with the differential lock switch on.

## Parking brake



To set: Pull up the lever.

To release: Pull up slightly, press the thumb button, and lower.

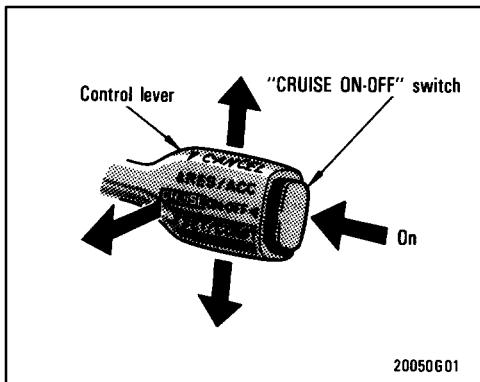
Before leaving your vehicle, firmly apply the parking brake. For better holding power, first depress the brake pedal and hold it while setting the parking brake.



#### CAUTION

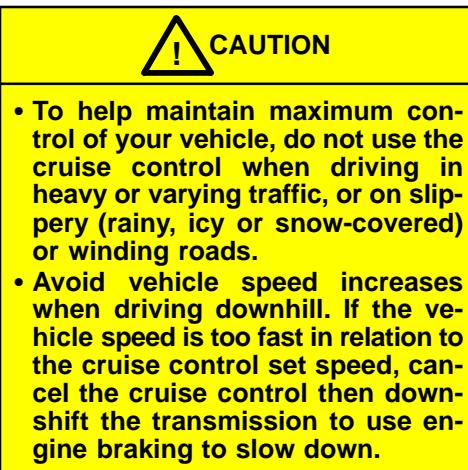
- Before driving, be sure the parking brake is fully released and the parking brake reminder light is off.

## Cruise control



The cruise control allows you to cruise the vehicle at a desired speed over 40 km/h (25 mph) even with your foot off the accelerator pedal.

Your cruising speed can be maintained up or down grades within the limits of engine performance, although a slight speed change may occur when driving up or down the grades. On steeper hills, a greater speed change will occur so it is better to drive without the cruise control.



### TURNING ON THE SYSTEM

To operate the cruise control, push the "CRUISE ON-OFF" switch. This turns the system on. The indicator light in the instrument panel shows that you can now set the vehicle at a desired cruising speed. Another push on the switch will turn the system completely off.



### SETTING AT A DESIRED SPEED

On vehicles with automatic transmission, the transmission must be in "D" before you set the cruise control speed.

Bring your vehicle to the desired speed, push the lever down in the "SET/COAST" direction and release it. This sets the vehicle at that speed. If the speed is not satisfactory, tap the lever up for a faster speed, or tap it down for a slower speed. Each tap 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. Pulling the control lever in the "CAN-CEL" direction and releasing it.
- b. Depressing the brake pedal.

If the vehicle speed falls below about 40 km/h (25 mph), the preset speed will automatically cancel out.

If the vehicle speed drops 16 km/h (10 mph) below the preset speed, the preset speed will also automatically cancel out. If the preset speed automatically cancels out other than for the above cases, have your vehicle checked by your Toyota dealer at the earliest opportunity.

### **RESETTING AT A FASTER SPEED**

Press the control lever upward in the "RES/ACC" direction and hold it. Release the lever when the desired speed is attained. While the lever is held upward, the vehicle will gradually gain speed.

However, a faster way to reset is to accelerate the vehicle and then press the control lever downward in the "SET/COAST" direction.

### **RESETTING AT A SLOWER SPEED**

Press the control lever downward in the "SET/COAST" direction and hold it. Release the lever when the desired speed is attained. While the lever is held downward, the vehicle speed will gradually decrease.

However, a faster way to reset is to depress the brake pedal and then push the control lever downward in the "SET/COAST" direction.

### **RESUMING THE PRESET SPEED**

If the preset speed is cancelled by pulling the control lever or by depressing the brake pedal or clutch pedal, pushing the lever up in the "RES/ACC" direction 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.

On vehicles with automatic transmission, even if you downshift the transmission with the cruise control on, engine braking will not be applied because cruise control is not cancelled. To decrease the vehicle speed, reset to a slower speed with the cruise control lever or depress the brake pedal. If you use the brake pedal, cruise control is cancelled.

### **CRUISE CONTROL FAILURE WARNING**

If the "CRUISE" indicator light in the instrument cluster flashes when using the cruise control, there is some trouble in the cruise control system. Contact your Toyota dealer and have your vehicle inspected.



# Part 1

## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-7 Car audio system and Air conditioning system

- Car audio system operating tips
- Power antenna
- AM-FM radio with electronic tuner and cassette tape player
- AM-FM radio with electronic tuner, cassette tape player and Compact Disc player
- Air conditioning controls
- Heater controls
- Rear heater controls
- Side vents
- Lower vent

#### Car audio system operating tips

You can listen to the car audio system when the ignition key is at “ON” or “ACC”. However, if the engine is not running, the key must be in the “ACC” position.

#### ILLUMINATION CONTROL LOGIC

When the instrument panel lights are on, the letters on operable buttons of the mode in current use light up. On some audio-units, the mode selection and eject buttons also light up.

On some audio-units, when a cassette tape is not in the slot, the letters on the tape mode buttons do not light up, but the slot lights up for easy access. Once a cassette tape is inserted, the letters on the tape mode buttons light up, and the slot stops illuminating.

#### RADIO

##### FM reception tips

Most of us are not aware that a vehicle is not an ideal place to listen to a radio. Because it moves, reception conditions change continuously. Buildings, terrain, signal distance and noise from other vehicles are all working against good reception. Some FM reception conditions may appear to be problems even though they are normal.

The following characteristics are normal for a given reception area, and they do not indicate any problem with the radio itself.

- **Fading and Drifting:** On the average, the broadcast range of FM stations is limited to about 40 km (25 miles), except for some high power stations.

If a vehicle is moving away from the desired station's transmitter, the signal will tend to fade and/or drift. This phenomenon is more noticeable with FM than with AM, and is accompanied by distortion.

Fading and drifting can be minimized to a certain degree by fine tuning, or you should tune in to a stronger signal.

- **Static and Fluttering:** When the line-of-sight path between a transmitter and vehicle is blocked by large buildings or the like, static or fluttering may occur because of the characteristic of FM. In a similar effect, a fluttering noise is sometimes heard when driving along a tree-lined road.

This static and fluttering can be reduced by adjusting the tone control for greater bass response until the disturbance has passed.

- **Multipath:** Because of the reflection characteristics of FM, direct and reflected signals may reach the antenna at the same time (a phenomenon called multipath reception) and cancel each other out. As a vehicle moves through these electronic dead spots, the listener may hear a momentary flutter or lose reception.
- **Station swapping:** When two FM stations are close to each other, and an electronic dead spot, such as is caused by static or multipath reception, interrupts the original signal, sometimes the stronger second signal is picked up automatically until the original one returns. This swapping can also occur as you drive away from the selected station and approach another station with a stronger signal.

#### **NOTICE**

*To prevent damage to the antenna, make sure it is retracted before running your vehicle through an automatic car wash.*

#### **CASSETTE TAPE PLAYER**

Use only undamaged cassette tapes of good quality. Avoid using tapes with a total playing time longer than 90 minutes.

Using damaged tapes will cause trouble with the tape player. Longer tapes are not recommended because of their thinness.

**Before inserting a cassette, make sure the tape is not slack and that the label is firmly stuck on the shell.**

Wind the tape firmly by turning the hub with a pencil or the like.

Be careful not to touch the exposed tape surface.

**When not in use, take the cassette out of the player, put it back to its case and store it away from dust, magnets and direct sunlight.**

Leaving cassettes on the dashboard in the sun could damage your tapes.

**Keep the playback head, capstan and pinch roller clean.**

Remove tape coating residue accumulated on the head, capstan and pinch roller once or twice a month. A cleaning tape is available on the market.

#### **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.*



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#### **COMPACT DISC PLAYER**

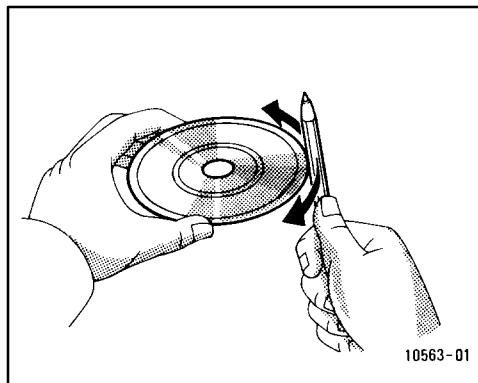
Use only Compact Discs labeled as shown, having no dirt, damage or warp.

Never attempt to disassemble or oil any part of the player unit. Do not insert any object other than a Disc into the slot.

Remember there are no user-serviceable parts inside.

Do not put fingerprints, stickers, scratches or pen marks on the surfaces of the Disc.

Hold the Disc only on the edge or center hole.



**A new Disc may have rough edges on its inner and outer perimeter. Remove the rough edges by pressing the side of a ball-point pen or pencil against the inner and outer perimeter of the Disc as shown.**

If you continue to lay a Disc with rough edges, flakes will fall on to the signal side of the Disc and cause sound skipping or other problems.

**When not in use, take the Disc out of the player, put it back into its case and store it away from dust, heat, damp and direct sunlight.**

Leaving Discs on the dashboard in the sun may damage or warp them.

**If the Disc gets dirty, wipe it clean with a soft cloth, wiping radially out from the center.**

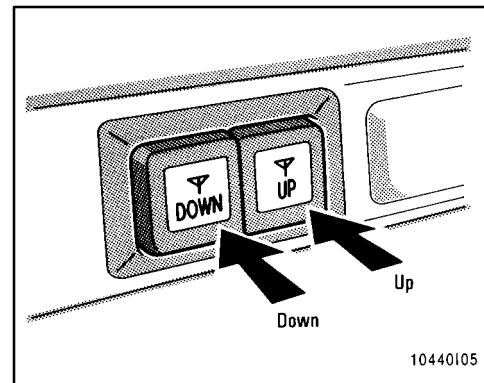
Do not use a conventional record cleaner or anti-static record preservative.



### **CAUTION**

**Compact Disc players use invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly as instructed.**

### **Power antenna**



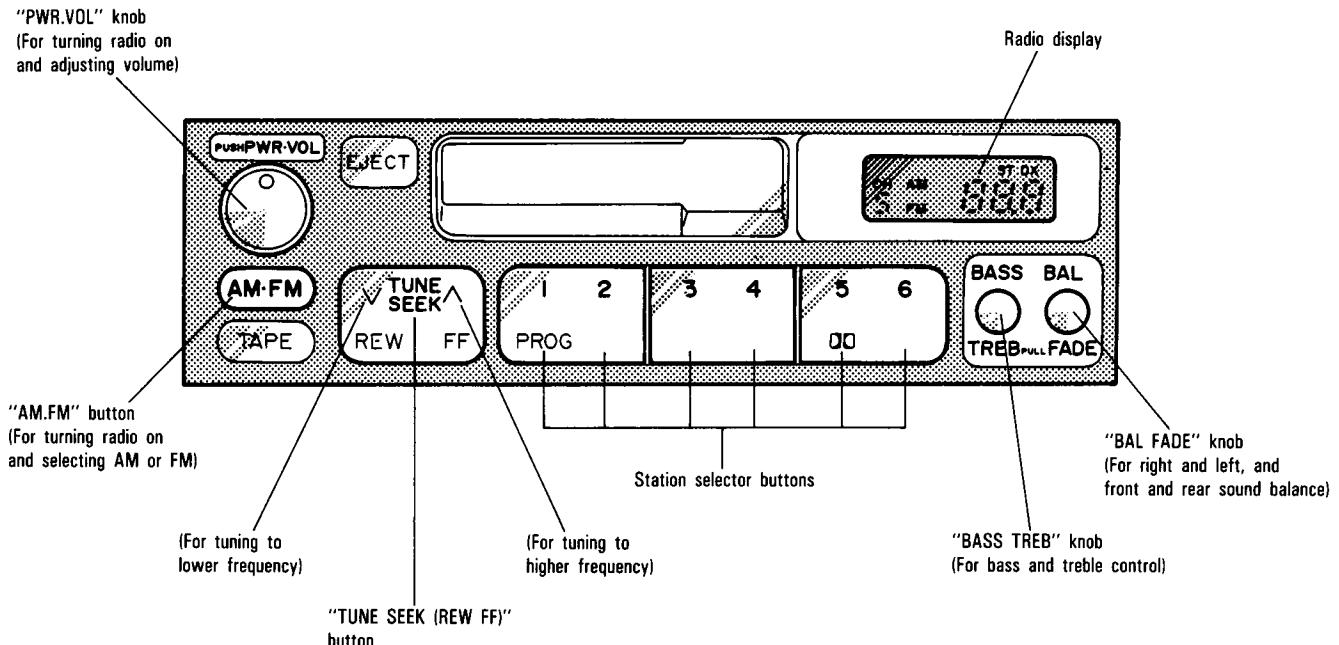
**To adjust the antenna height, push the switch.**

Confirm that no one is close enough to get pushed before extending the antenna.

Clean the antenna mast periodically with a clean dry cloth.

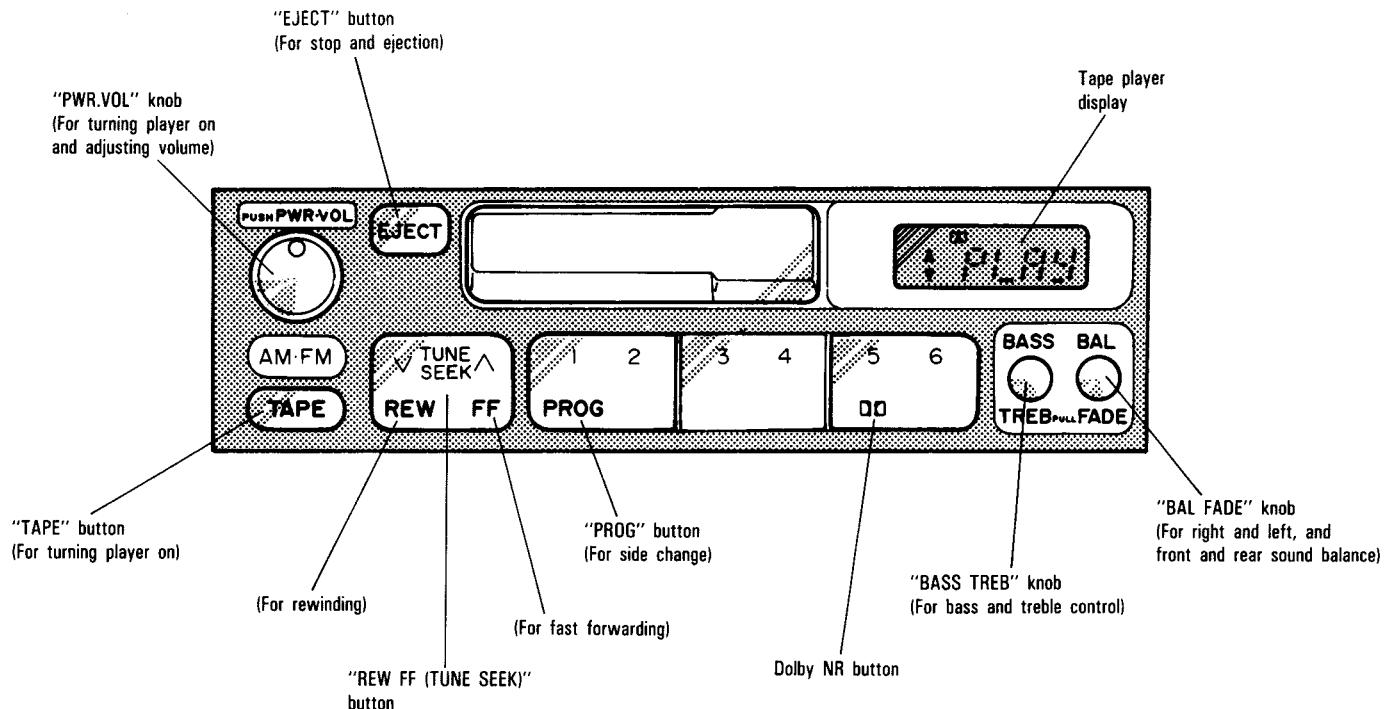
## AM-FM radio with electronic tuner and cassette tape player (type A)

Radio



10640H05

Cassette tape player



10640H11

### **(a) Listening to the radio**

1. Push the "AM-FM" button to turn the radio on and select either an AM or FM broadcast.

"AM" or "FM" will appear on the display.

The radio can also be turned on by pushing the "PWR.VOL" knob if the radio was on when the system was turned off.

2. Turn the "PWR.VOL" knob to adjust the volume.

3. Tune in the desired station. (See "(b) Selecting a station" and "(c) Presetting a station".)

The radio will change automatically to stereo reception when an FM stereo broadcast is being received. At the same time, "ST" will appear on the display. When the receiving signal gets weak, the channel separation will automatically be reduced for the lowest noise. If the signal becomes extremely weak, the radio will switch over to monaural reception.

4. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance".)

5. To turn the radio off, push the "PWR.VOL" knob.

### **(b) Selecting a station**

Tune in the desired station using one of the following methods. The frequency will appear on the display.

**Preset tuning:** Use for tuning-in to a desired preset station. (See "(c) Presetting a station".)

Push the station selector button which has been preset to the desired station. The radio will tune in to the station and the button number will appear on the display.

**Seek tuning:** Use for automatic station search and stop.

Push the "TUNE SEEK (REW FF)" button on either side and hold it until a beep is heard. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, stations will be seeked out one after another.

### **Manual tuning**

Push the "TUNE SEEK (REW FF)" button on either side for less than 0.5 second. Each time you push the button, the radio will step up or down to another frequency where stations could exist.

### **(c) Presetting a station**

1. Tune in the desired station. (See "(b) Selecting a station".)

2. Push either side of the station selector buttons and hold it until a beep is heard. This sets the station to the button and the button number will appear on the display.

Each side of the buttons can store one AM station and one FM station. To change the preset station to a different one, follow the same procedure.

The preset station will be cancelled when the power source is severed (battery disconnected, burnt fuse, etc.).

### **(d) Adjusting the tone**

To adjust a low-pitched tone, push the "BASS TREB" knob (if pushed in) and turn it.

To adjust a high-pitched tone, push the "BASS TREB" knob (if pushed in), pull it fully out and turn it.

### **(e) Adjusting the sound balance**

To balance the sound between the right and left speakers, push the "BAL FADE" knob (if pushed in) and turn it.

To balance the sound between the front and rear speakers, push the "BAL FADE" knob (if pushed in), pull it fully out and turn it.

### **(f) Listening to the cassette tape**

1. Put the cassette into the slot, with the tape side to the right and lightly push it in. The tape player will grab the cassette and slide it into place to play it. If the radio is on when inserting the cassette, the radio will automatically turn off.

If the cassette is already in the slot, push the "TAPE" button.

At this time, "PLAY" will appear on the display.

The tape player can also be turned on by pushing the "PWR.VOL" knob if the tape player was playing when the system was turned off by pushing the knob.

2. If using a tape recorded with Dolby® NR\*, push the button marked with the double-D symbol. The display will indicate that the Dolby noise reduction system is on.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with the Dolby® NR\* on or off according to the mode used for recording the tape.

To play a tape recorded without Dolby® NR\*, push the button again to turn off the Dolby® NR\*.

\*: Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

3. Turn the "PWR.VOL" knob to adjust the volume.
4. Select your program. (See "(g) Selecting a program".)
5. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance".)
6. To turn the player off, push the "PWR.VOL" knob.
7. To eject the cassette, push the "EJECT" button. As this is done, the player will turn off. If the radio was on when the cassette tape was inserted, it will automatically turn on again.

You can eject the cassette only once after the system is turned off.

### **(g) Selecting a program**

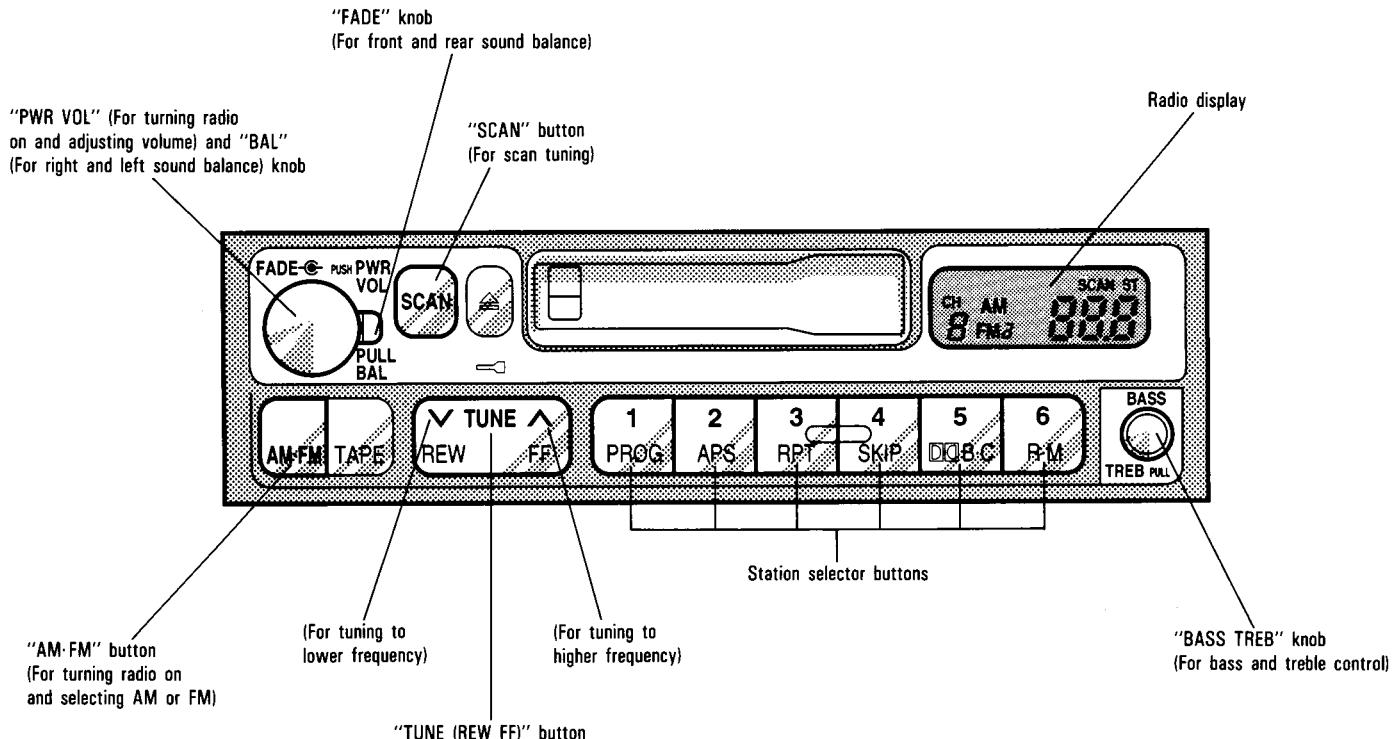
1. Push the "PROG" button to select a side to play. The tape operation indicator display shows you which side is being played.

The player will automatically reverse directions at the end of the tape to play the other side.

2. Push the "REW FF (TUNE SEEK)" button on either side to fast forward or rewind the tape. At this time, "FF" or "REW" will appear on the display. To stop the tape while it is fast forwarding, push "FF" or "TAPE"; to stop the tape while it is rewinding, push "REW" or "TAPE". The tape will immediately begin to play.

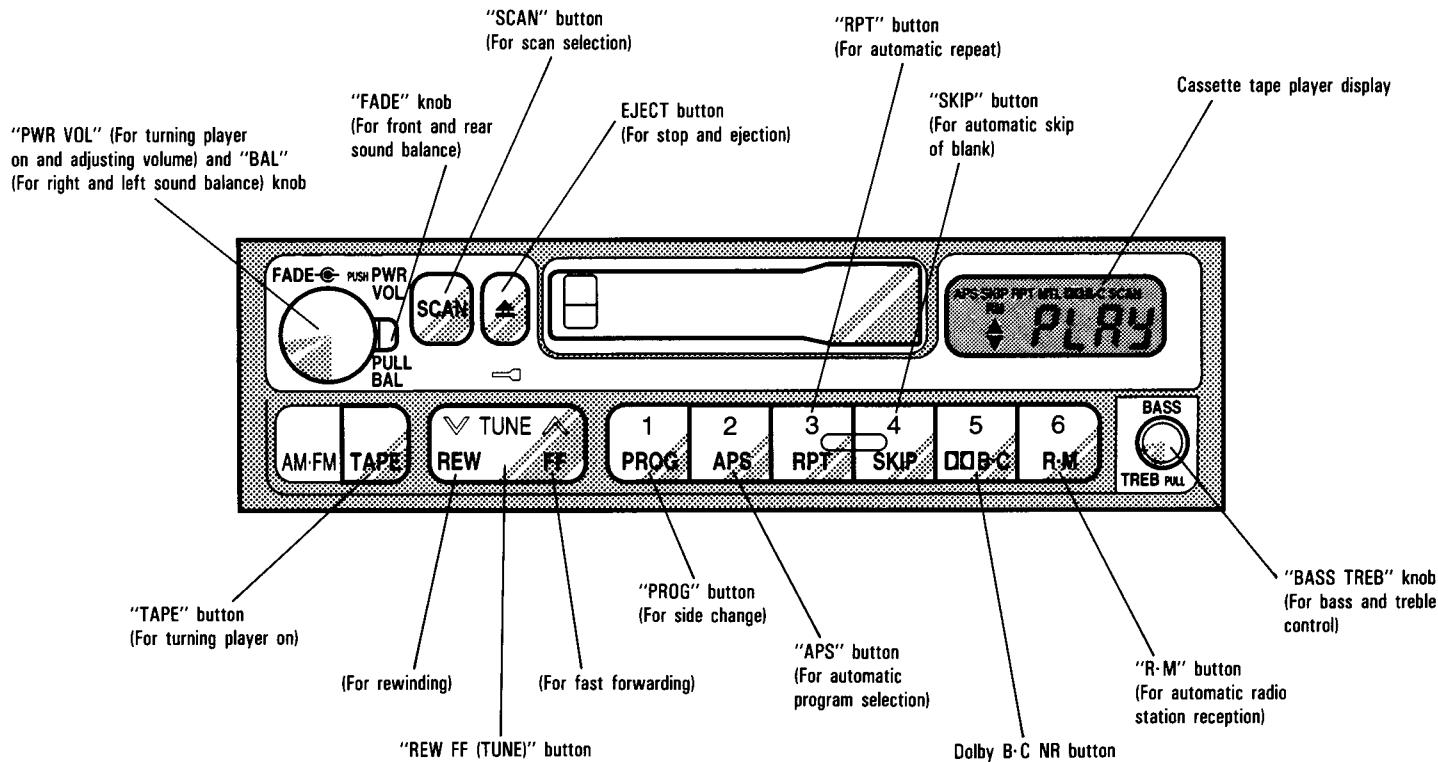
## AM-FM radio with electronic tuner and cassette tape player (type B)

### Radio



10640-14

Cassette tape player



10640-15

### **(a) Listening to the radio**

1. Push the “AM-FM” button to turn the radio on and select either an AM or FM broadcast.

“AM”, “FM1” or “FM2” will appear on the display.

The radio can also be turned on by pushing the “PWR VOL” knob if the radio was on when the system was turned off.

2. Turn the “PWR VOL” knob to adjust the volume.

3. Tune in the desired station. (See “(b) Selecting a station” and “(c) Presetting a station”.)

The radio will change automatically to stereo reception when an FM stereo broadcast is being received. At the same time, “ST” will appear on the display. When the receiving signal gets weak, the channel separation will automatically be reduced for the lowest noise. If the signal becomes extremely weak, the radio will switch over to monaural reception.

4. Adjust the tone and sound balance. (See “(d) Adjusting the tone” and “(e) Adjusting the sound balance”.)

5. To turn the radio off, push the “PWR VOL” knob.

### **(b) Selecting a station**

Tune in the desired station using one of the following methods. The frequency will appear on the display.

**Preset tuning:** Use for tuning-in to a desired preset station. (See “(c) Presetting a station”.)

1. Push the “AM-FM” button repeatedly until the desired selection appears on the display.

2. Push the station selector button which has been preset to the desired station. The radio will tune in to the station and the button number will appear on the display.

**Seek tuning:** Use for automatic station search and stop.

Push the “TUNE (REW FF)” button on either side and hold it until a beep is heard. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, stations will be seeked out one after another.

**Scan tuning:** Use for station-to-station scanning.

Scanning for all frequencies—Push the “SCAN” button and hold it until a beep is heard. With “SCAN” on the display, the radio will automatically seek out a station of a higher frequency, hold it for 5 seconds and scan to the next. To continue listening to the broadcast of your choice, simply push the “SCAN” button once again.

Scanning for preset stations—Push the “SCAN” button within 2 seconds. With “SCAN” on the display, the radio will automatically seek out a preset station, hold it for 5 seconds and scan to the next. To continue listening to the station of your choice simply push the “SCAN” button once again.

### **Manual tuning**

Push the “TUNE (REW FF)” button on either side for less than 0.5 second. Each time you push the button, the radio will step up or down to another frequency where stations could exist.

### **(c) Presetting a station**

1. Push the “AM-FM” button repeatedly until the desired selection, “AM”, “FM1” or “FM2”, appears on the display.

The radio has two FM selections, "FM1" and "FM2". You can preset any desired six stations in each selection. When you preset an FM station, check which selection you have used.

2. Tune in the desired station. (See "(b) Selecting a station".)

3. Push one of the station selector buttons and hold it until a beep is heard. This sets the station to the button and the button number will appear on the display.

To change the preset station to a different one, follow the same procedure.

The preset station will be cancelled when the power source is severed (battery disconnected, burnt fuse, etc.).

#### **(d) Adjusting the tone**

To adjust the low-pitched tone, push the "BASS TREB" knob (if pushed in) and turn it.

To adjust the high-pitched tone, push the "BASS-TREB" knob (if pushed in), pull it fully out and turn it.

#### **(e) Adjusting the sound balance**

To balance the sound between the right and left speakers, pull out the "BAL" knob and turn it.

To balance the sound between the front and rear speakers, turn the "FADE" knob.

#### **(f) Listening to the cassette tape**

1. Put the cassette into the slot, with the tape side to the right and lightly push it in. The tape player will grab the cassette and slide it into place to play it. If the radio is on when inserting the cassette, it will automatically turn off.

If the cassette is already in the slot, push the "TAPE" button.

At this time, "PLAY" will appear on the display.

The tape player can also be turned on by pushing the "PWR VOL" knob if the tape player was playing when the system was turned off by pushing the knob.

When a metal or chrome equivalent tape is inserted, the player will automatically adapt to it and "MTL" will appear on the display.

2. If using a tape recorded with Dolby NR\*, push the button marked with the double-D symbol to select the Dolby B NR or Dolby C NR mode. The display will indicate which Dolby noise reduction system is operating.

The Dolby NR mode reduces tape noise by about 10 dB. The Dolby C NR mode reduces tape noise by another 10 dB, or about 20 dB total. For best sound reproduction, select the same NR mode that was used to record the tape.

To play a tape recorded without Dolby NR\*, push the button until the Dolby NR indicator disappears.

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

3. Turn the "PWR VOL" knob to adjust the volume.

4. Select your program. (See "(g) Selecting a program".)

5. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance".)

6. If desired, other functions may be used for your convenience. (See "(h) Other tape player functions".)

7. To eject the cassette, push the EJECT button. As this is done, the player will turn off. If the radio was on when the cassette tape was inserted, it will automatically turn on again.

8. To turn the player off, push the "PWR VOL" knob.

You can eject the cassette only once after the system is turned off.

### **(g) Selecting a program**

1. Push the "PROG" button to select a side to play. The tape operation indicator display shows you which side is being played.

The player will automatically reverse directions at the end of the tape to play the other side.

2. Have a desired program played using either of the following methods.

#### **Manual program selection**

Push the "REW FF (TUNE)" button on either side to rewind or fast forward the tape. At this time, "REW" or "FF" will appear on the display. To stop the tape while it is fast forwarding, push "FF" or "TAPE"; to stop the tape while it is rewinding, push "REW" or "TAPE". The tape will immediately begin to play.

**Automatic program selection:** Use for quick access to a desired program.

1. Push the "APS" button. "APS" and program number "1" will appear on the display.

2. Repeat the push until the number indicates how many programs ahead of/behind the one currently being played you wish to listen to (include the program you are currently listening to when counting back previous programs).

The maximum number of settings is nine. The tenth push on the button will cancel the function and "APS" will disappear on the display.

3. Push the "REW FF (TUNE)" button on either side to get the tape going in the direction of the program. The player will automatically stop at the beginning of the selected program and play it.

If the number you set exceeds the number of the programs remaining on the side currently being played, the tape will fast forward to the beginning of the other side (when fast forwarding) or rewind to the beginning of that side (when rewinding).

This function does not work properly unless the blank portions on the tape have 3 seconds or more between one program and another.

### **(h) Other tape player functions**

**"RPT" button:** Use for automatic repeat of the program currently being listened to.

Push the "RPT" button while the program is being played. As this is done, "RPT" will appear on the display. When the program is finished, the tape will automatically be rewound to the beginning of the program and the program will be played again. To cancel it, push the button once again.

This function does not work properly unless the blank portions on the tape have 3 seconds or more between one program and another.

**"SKIP" button:** Use for automatic skipping of blank portions between programs.

Push the "SKIP" button. "SKIP" appears on the display. The player will automatically skip any blank portions of 15 seconds or more and play the next program, even if it is on the other side. To cancel it, push the button once again.

**"SCAN" button:** Use for program-to-program scanning.

Push the "SCAN" button. With "SCAN" on the display, each program will be played for 12 seconds and scan to the next. To continue listening to the program of your choice, simply push the "SCAN" button once again.

The player will automatically reverse directions at the end of the tape and keep scanning.

### **“R·M” button (radio monitor system):**

Use for automatic station reception.

Push the “R·M” button. “R·M” appears on the display. In this mode, if you push the “REW FF (TUNE)” button on either side when listening to the tape, the system will change the radio mode and automatically receive the last station which was set. At the time, the received station condition appears on the display.

The system will be cancelled out when the power source is severed (battery disconnected, burnt fuse, etc.)

### **(i) Anti-theft system**

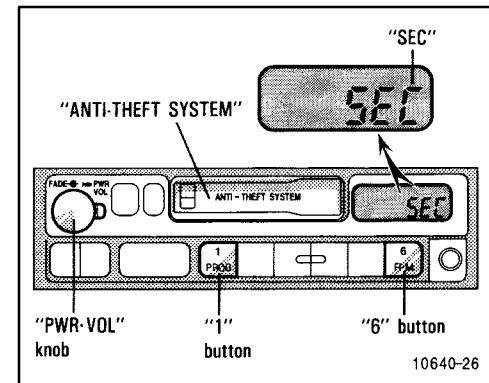
To deter theft of your radio unit, the system is designed so that the radio unit becomes inoperable if the unit is stolen from the vehicle.

The system is not preset at factory. You must input a three-digit identification number decided by you.

#### **NOTICE**

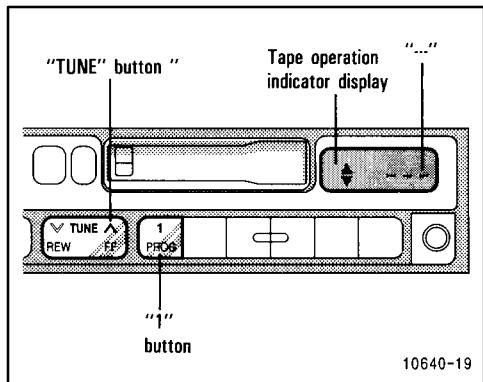
*If you pushed any wrong buttons on the anti-theft system, the following messages will appear on the display.*

- ◆ **“Err”—You have pushed wrong buttons.**
- ◆ **“1-9”—Indicates the number of errors you have made. You may make up to nine errors, but no more!**
- ◆ **“HELP”—The number of errors you can make was exceeded. The audio system is completely inoperable. Contact your Toyota dealer.**



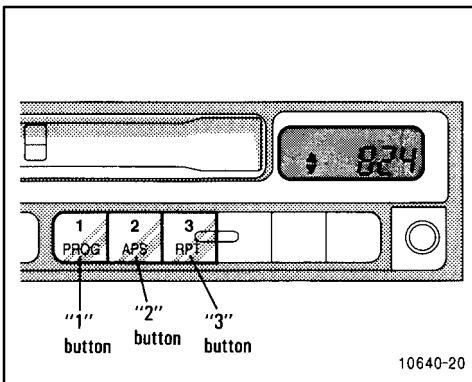
### **Setting the anti-theft system**

1. Make sure the radio unit is turned off with the ignition switch in “ACC”.
2. While holding the “1” and “6” buttons in, push and hold the “PWR·VOL” knob in until “SEC” appears on the display.



10640-19

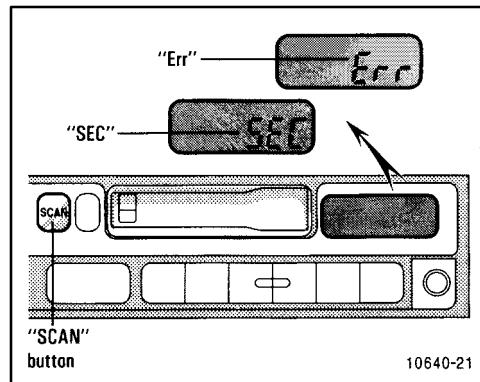
3. Press the "1" button while holding the right side of "TUNE SEEK" button in. "\_\_\_" and the tape operation indicator will appear on the display.



10640-20

4. Input your identification number by pressing the "1", "2", and "3" buttons repeatedly. Use the "1" button for the first digit, the "2" button for the second digit and the "3" button for the last digit. For example, if your number is 824, press the "1" button nine times, the "2" button three times and the "3" button five times. If the display returns to "\_\_\_" while inputting, try again.

We recommend that your identification number be associated with something easy to remember. In case you are unsure of the number, write it in a notebook you normally carry. Do not leave it behind in your vehicle.

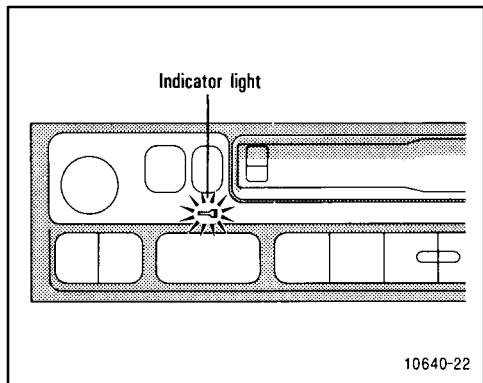


10640-21

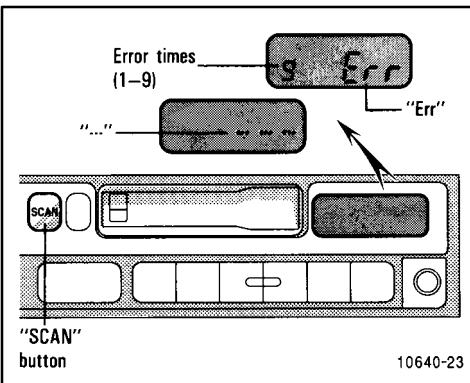
5. With your identification number appearing on the display, press the "SCAN" button and hold it in until "SEC" appears on the display. "SEC" will go off to indicate the system is set. If invalid buttons have been used, "Err" will appear on the display before "SEC" appears. Try again from the step 3.

Once the system is set, the indicator light turns on and off with the ignition switch in "OFF" and "SEC" will appear each time the key is turned to the "ACC" position.

To change the identification number for some reason, cancel the system (See "Cancelling the anti-theft system") and set it again with a new number.

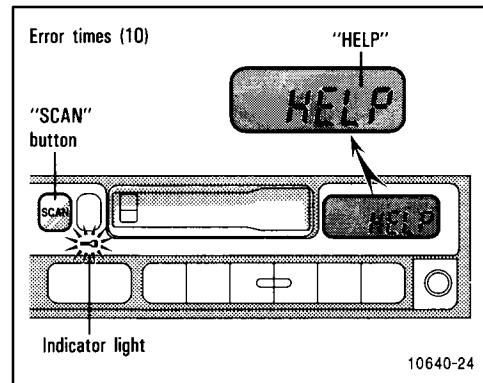


The system will be activated if the electrical power source is disconnected from the radio unit. When the system is activated, the audio system cannot be turned on even after the power supply resumes and "SEC" will appear on the display. If this happens, such as when the battery is discharged, see "If the anti-theft system is activated."



### Cancelling the anti-theft system

1. Follow the steps 1 to 4 described in "Setting the anti-theft system".
2. With your identification number appearing on the display, press the "SCAN" button and hold it in until "---" appears on the display. "---" will go off to indicate the system is cancelled. If invalid buttons have been used, "Err" will appear on the display and "SEC" appears. Try again from step 3 in "Setting the anti-theft system".

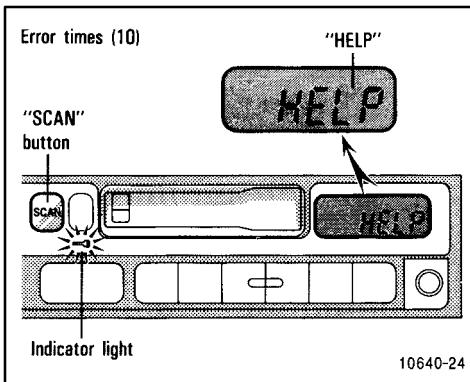
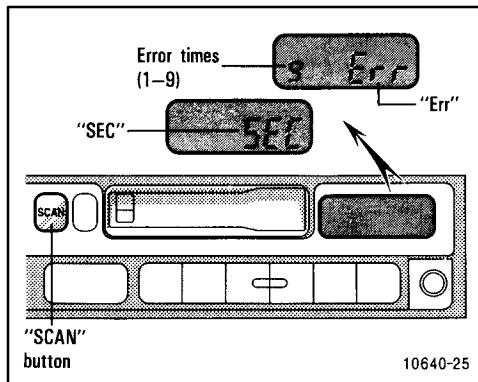


The figure with "Err" indicates how many errors you have made. You may make up to nine errors, but no more!

### NOTICE

*A tenth error will activate the anti-theft system and "HELP" will appear on the display. The audio system will be completely inoperable. At this time, the indicator light also comes on. If this occurs, contact your Toyota dealer.*

At the time of resale of your vehicle, cancel the system for the new owner.



### If the anti-theft system is activated

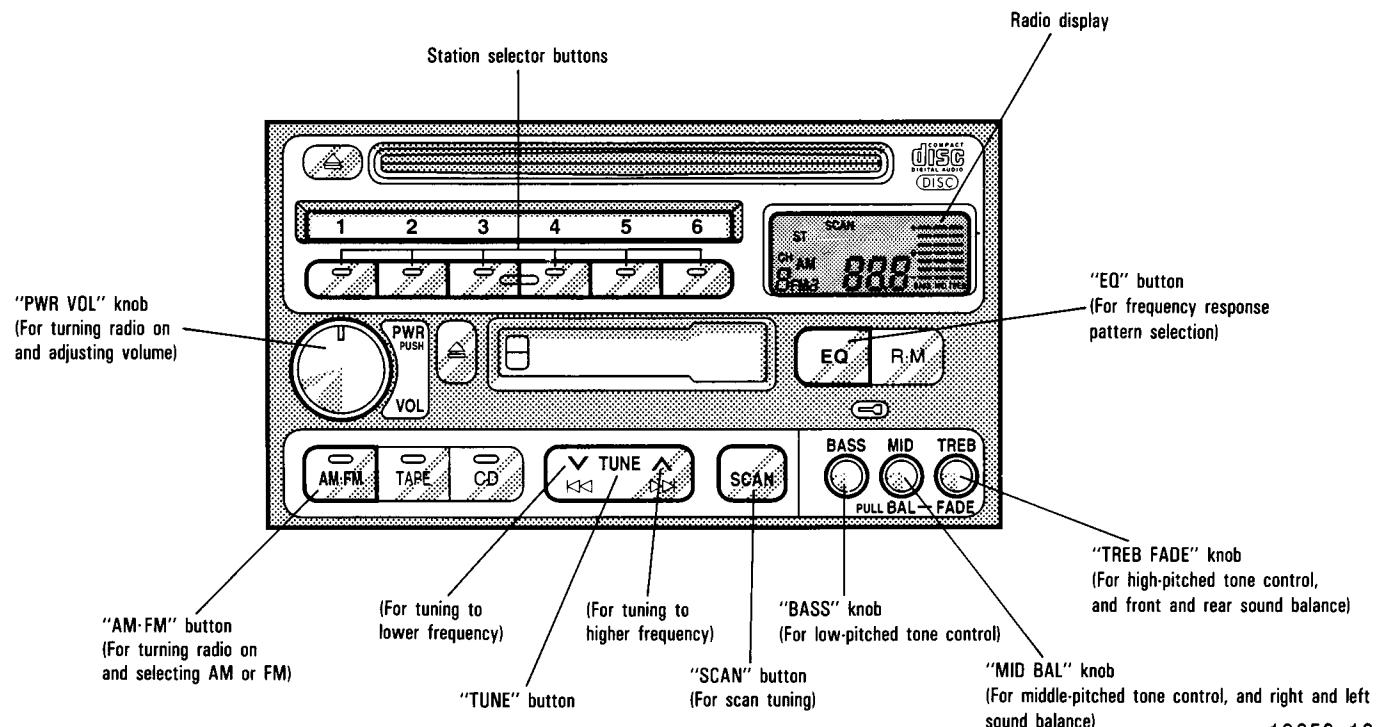
The audio system made inoperable by the activated anti-theft system will be operable if you give it the correct identification number.

1. Follow the steps 3 and 4 described in "Setting the anti-theft system".
2. With your identification number appearing on the display, press the "SCAN" button and hold it in until "SEC" appears on the display. "Sec" will go off to indicate that the system is reset and the audio system is inoperable. If invalid buttons have been used, "Err" will appear on the display before "SEC" appears. Try again from the beginning.

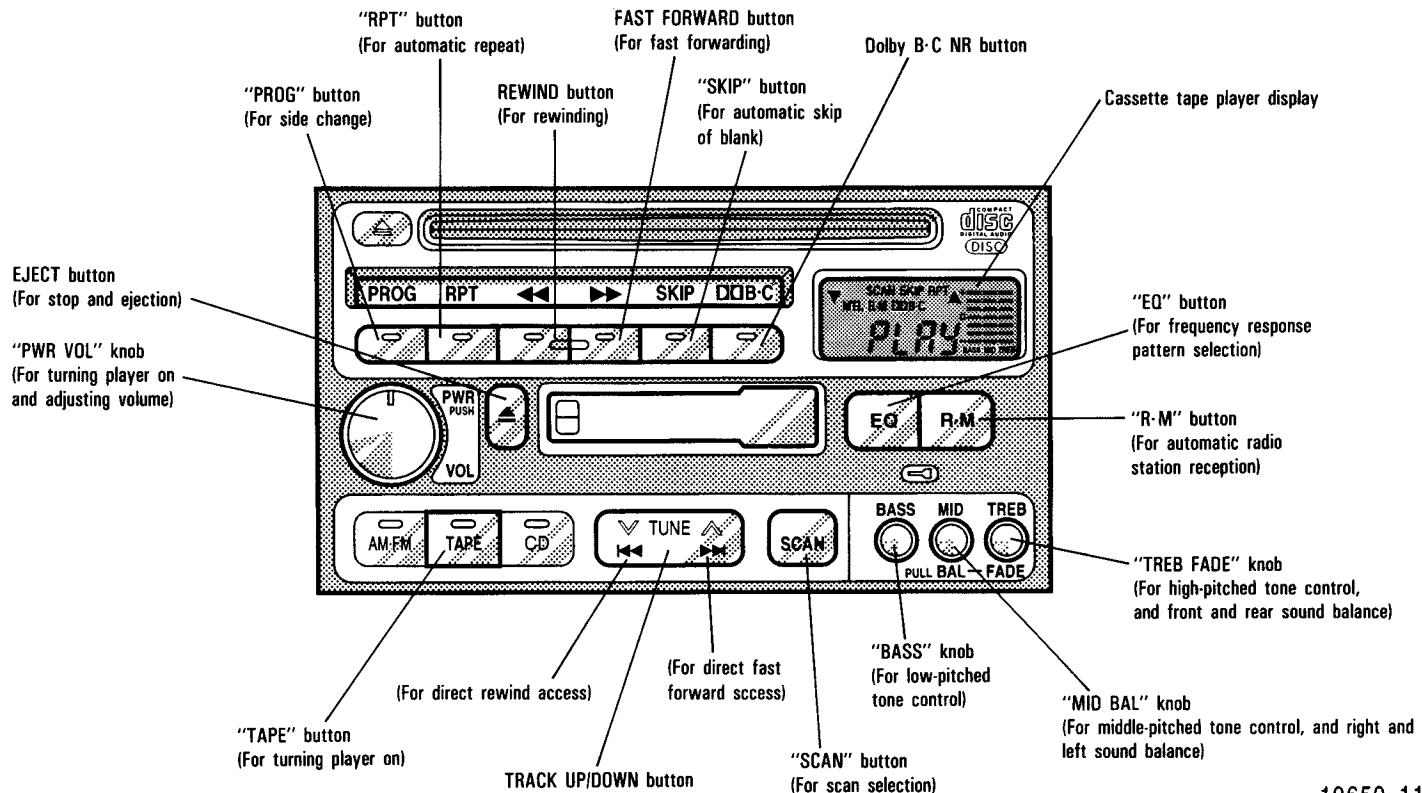
See "Cancelling the anti-theft system" for notes on the figure with "Err".

## **AM-FM radio with electronic tuner, cassette tape player and Compact Disc player**

## Radio

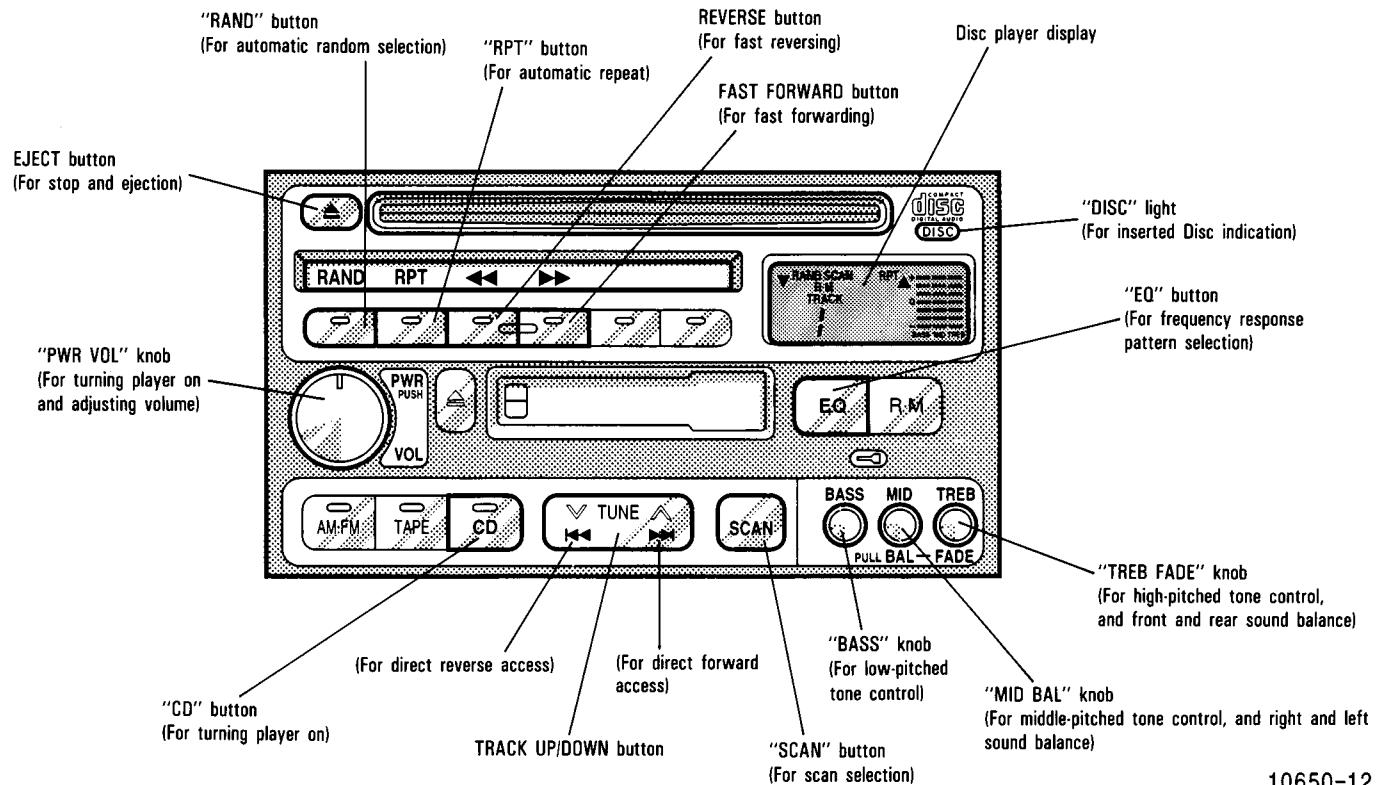


Cassette tape player



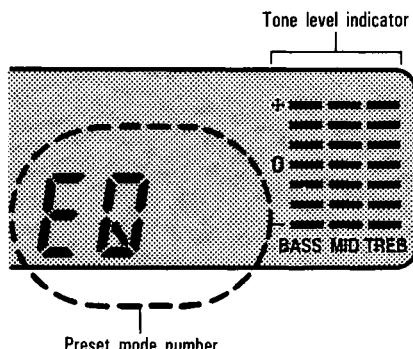
10650-11

Compact Disc player

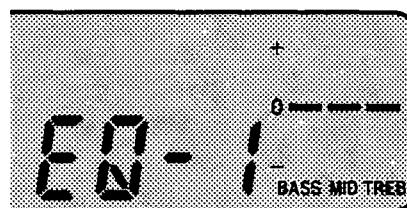


10650-12

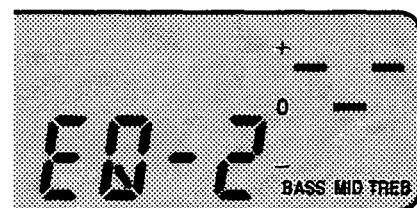
Frequency response pattern display



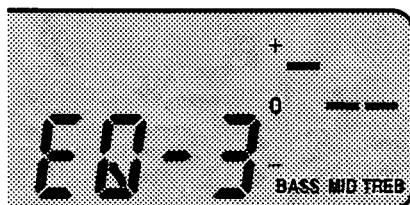
Preset frequency response pattern  
and example of music type



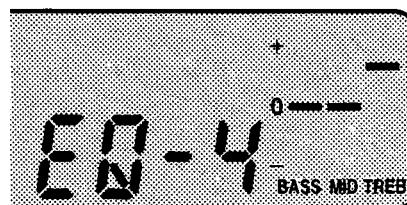
Flat response:  
For classical music etc.



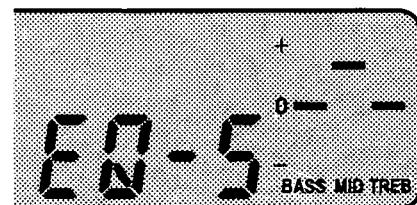
Boosted bass and treble response:  
For jazz etc.



Boosted bass response:  
For rock music etc.



Boosted treble response:  
For pop music etc.



Boosted midrange response:  
For vocal music etc.

10650-16

### **(a) Listening to the radio**

1. Push the "AM-FM" button to turn the radio on and select either an AM or FM broadcast.

"AM", "FM1" or "FM2" will appear on the display.

The radio can also be turned on by pushing the "PWR VOL" knob if the radio was on when the system was turned off.

2. Turn the "PWR VOL" knob to adjust the volume.

3. Tune in the desired station. (See "(b) Selecting a station" and "(c) Presetting a station".)

The radio will change automatically to stereo reception when an FM stereo broadcast is being received. At the same time, "ST" will appear on the display. When the receiving signal gets weak, the channel separation will automatically be reduced for the lowest noise. If the signal becomes extremely weak, the radio will switch over to monaural reception.

4. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance".)

5. To turn the radio off, push the "PWR VOL" knob.

### **(b) Selecting a station**

Tune in the desired station using one of the following methods. The frequency will appear on the display.

**Preset tuning:** Use for tuning-in to a desired preset station. (See "(c) Presetting a station".)

1. Push the "AM-FM" button repeatedly until the desired selection appears on the display.

2. Push the station selector button which has been preset to the desired station. The radio will tune in to the station and the button number will appear on the display.

**Seek tuning:** Use for automatic station search and stop.

Push the "TUNE" button on either side and hold it until a beep is heard. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, stations will be seeked out one after another.

**Scan tuning:** Use for station-to-station scanning.

Scanning for all frequencies—Push the "SCAN" button and hold it until a beep is heard. With "SCAN" on the display, the radio will automatically seek out a station of a higher frequency, hold it for 5 seconds and scan to the next. To continue listening to the broadcast of your choice, simply push the "SCAN" button once again.

Scanning for preset stations—Push the "SCAN" button within 2 seconds. With "SCAN" on the display, the radio will automatically seek out a preset station, hold it for 5 seconds and scan to the next. To continue listening to the station of your choice, simply push the "SCAN" button once again.

### **Manual tuning**

Push the "TUNE" button on either side for less than 0.5 second. Each time you push the button, the radio will step up or down to another frequency where stations could exist.

### **(c) Presetting a station**

1. Push the "AM-FM" button repeatedly until the desired selection, "AM", "FM1" or "FM2", appears on the display.

The radio has two FM selections, "FM1" and "FM2". You can preset any desired six stations in each selection. When you preset an FM station, check which selection you have used.

2. Tune in the desired station. (See "(b) Selecting a station".)

3. Push one of the station selector buttons and hold it until a beep is heard. This sets the station to the button and the button number will appear on the display.

To change the preset station to a different one, follow the same procedure.

The preset station will be cancelled when the power source is severed (battery disconnected, burnt fuse, etc.).

#### **(d) Adjusting the tone**

##### **Automatic tone adjustment**

Push the "EQ" button repeatedly until the desired frequency response pattern appears on the display. This function automatically controls the tone in accordance with the selected pattern.

To change the preset mode, adjust the manual tone control knobs as you like. (See the following "Manual tone adjustment".)

To memorize the setting you have selected, push the "EQ" button for 2 seconds until a beep is heard. To cancel the memory, push the "EQ" button for 10 seconds until the second beep is heard.

To cancel all the memory which you have set, push the "EQ" button for 20 seconds until the third beep is heard.

##### **Manual tone adjustment**

Before using the tone controls, push the "EQ" button repeatedly until your desired response pattern appears on the display.

To adjust a low-pitched tone, push the "BASS" knob (if pushed in) and turn it. At the time, the "BASS" display will change.

To adjust a middle-pitched tone, push the "MID BAL" knob (if pushed in) and turn it. At the time, the "MID" display will change.

To adjust a high-pitched tone, push the "TREB FADE" knob (if pushed in), and turn it. At the time, the "TREB" display will change.

#### **(e) Adjusting the sound balance**

To balance the sound between the right and left speakers, push the "MID BAL" knob (if pushed in), pull it fully out and turn it.

To balance the sound between the front and rear speakers, push the "TREB FADE" knob (if pushed in), pull it fully out and turn it.

#### **(f) Listening to the cassette tape**

1. Put the cassette into the slot, with the tape side to the right and lightly push it in. The tape player will grab the cassette and slide it into place to play it. If the radio or Compact Disc is on when inserting the cassette, it will automatically turn off.

If the cassette is already in the slot, push the "TAPE" button.

At this time, "PLAY" will appear on the display.

The tape player can also be turned on by pushing the "PWR VOL" knob if the tape player was playing when the system was turned off by pushing the knob.

When a metal or chrome equivalent tape is inserted, the player will automatically adapt to it and "MTL" will appear on the display.

2. If using a tape recorded with Dolby® NR\*, push the button marked with the double-D symbol to select the Dolby B NR or Dolby C NR mode. The display will indicate which Dolby noise reduction system is operating.

The Dolby B NR mode reduces tape noise by about 10 dB. The Dolby C NR mode reduces tape noise by another 10 dB, or about 20 dB total. For best sound reproduction, select the same NR mode that was used to record the tape.

To play a tape recorded without Dolby® NR\*, push the button until the Dolby NR indicator disappears.

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

3. Turn the "PWR VOL" knob to adjust the volume.

4. Select your program. (See "(g) Selecting a program".)

5. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance".)

6. If desired, other functions may be used for your convenience. (See "(h) Other tape player functions".)

7. To eject the cassette, push the EJECT button. As this is done, the player will turn off. If the radio or Compact Disc player was on when the cassette tape was inserted, it will automatically turn on again.

8. To turn the player off, push the "PWR VOL" knob.

You can eject the cassette only once after the system is turned off.

### **(g) Selecting a program**

1. Push the "PROG" button to select a side to play. The tape operation indicator display shows you which side is being played.

The player will automatically reverse directions at the end of the tape to play the other side.

2. Have a desired program played using either of the following methods.

#### **Manual program selection**

Push the FAST FORWARD button to fast forward the tape. "FF" will appear on the display. Push the REWIND button to rewind the tape. "REW" will appear on the display.

To stop the tape while it is fast forwarding, push the FAST FORWARD or "TAPE" button; to stop the tape while it is rewinding, push the REWIND or "TAPE" button.

**Automatic program selection:** Use for quick access to a desired program.

1. Push the TRACK UP/DOWN button on either side. "1.RR" or "1.FF" will appear on the display.

2. Repeat the push until the number indicates how many programs ahead of/behind the one currently being played you wish to listen to (include the program you are currently listening to when counting back previous programs).

The maximum number of settings is nine. The tenth push on the button will cancel the function and the skip feature will disappear on the display.

If the number you set exceeds the number of the programs remaining on the side currently being played, the tape will fast forward to the beginning of the other side (when fast forwarding) or rewind to the beginning of that side (when rewinding).

This function does not work properly unless the blank portions on the tape have 3 seconds or more between one program and another.

### **(h) Other tape player functions**

**"RPT" button:** Use for automatic repeat of the program currently being listened to.

Push the "RPT" button while the program is being played. As this is done, "RPT" will appear on the display. When the program is finished, the tape will automatically be rewound to the beginning of the program and the program will be played again. To cancel it, push the button once again.

This function does not work properly unless the blank portions on the tape have 3 seconds or more between one program and another.

**“SKIP” button:** Use for automatic skipping of blank portions between programs. Push the “SKIP” button. “SKIP” appears on the display. The player will automatically skip any blank portions of 15 seconds or more and play the next program, even if it is on the other side. To cancel it, push the button once again.

**“SCAN” button:** Use for program-to-program scanning.

Push the “SCAN” button. With “SCAN” on the display, each program will be played for 12 seconds and scan to the next. To continue listening to the program of your choice, simply push the “SCAN” button once again.

The player will automatically reverse directions at the end of the tape and keep scanning.

**“R·M” button (radio monitor system):** Use for automatic station reception.

Push the “R·M” button. “R·M” appears on the display. In this mode, if you push the REWIND or FAST FORWARD button when listening to the tape, the system will change the radio mode and automatically receive the last station which was set. At the time, the received station condition appears on the display.

The system will be cancelled out when the power source is severed (battery disconnected, burnt fuse, etc.)

#### **(i) Listening to the compact Disc**

This Compact Disc player does not need to use an adaptor for 8 cm (3.2 in.) Discs. Do not use an adaptor when listening to 8 cm (3.2 in.) Discs, which cause tracking errors or interfere with Disc ejection.

1. Put the Compact Disc into the slot, with the label side up and lightly push it in. The Disc player will grab the Disc and slide it into place to play it from the track 1 program. As this is done, the “DISC” light will come on. The track number will appear on the display.

If the Compact Disc is already in the slot, push the “CD” button.

The Compact Disc player can also be turned on by pushing the “PWR VOL” knob if the Compact Disc player was playing when the system was turned off by pushing the knob.

If the radio or cassette tape player is on when playing the Disc, it will automatically turn off.

If the Disc is inserted with the label side down, the Disc will automatically be ejected.

2. Turn the “PWR VOL” knob to adjust the volume.

3. Select your program. (See “(j) Selecting a program”.)

When the end of the Disc is reached, the player starts playing the track 1 program again.

4. Adjust the tone and sound balance. (See “(d) Adjusting the tone” and “(e) Adjusting the sound balance”.)

5. Push the EJECT button to eject the Disc. As this is done, the Compact Disc player will turn off. If the radio or cassette tape player was on when the Disc was inserted, it will automatically turn on again.

6. Push the “PWR VOL” knob to turn the Compact Disc player off.

You can eject the Disc only once after the system is turned off.

When ejecting a 8 cm (3.2 in.) Disc, do not put a 12 cm (4.7 in.) Disc into the slot until the "DISC" light goes off.

#### **(j) Selecting a program**

**Automatic program selection:** Use for direct access to a desired program.

Push the TRACK UP/DOWN button on either side and hold it until the desired program track number appears on the display. As you release the button, the player will start playing the selected program from the beginning.

#### **Manual program selection:**

Push either of the FAST FORWARD or REVERSE buttons and hold it to fast forward or reverse the Disc. Releasing the button starts the play from that position.

**Scan program selection:** Use for program-to-program scanning.

Push the "SCAN" button. With "SCAN" on the display, each program will be played for 10 seconds from the beginning and scan to the next. To continue listening to the program of your choice, simply push the "SCAN" button once again.

#### **(k) Other Compact Disc player functions**

**"RPT" button:** Use for automatic repeat of the program currently being listened to. Push the "RPT" button while the program is being played. As this is done, "RPT" will appear on the display. When the program is finished, the Disc will automatically return to the beginning of the program and the program will be played again. To cancel it, push the button once again.

**"RAND" button:** Use for automatic random selection of Disc programs.

If the "RAND" button is pushed while listening to the Compact Disc, "RAND" will appear on the display and the player will endlessly repeat the programs selected at random. To continue listening to the program of your choice, simply push the "RAND" button once again.

#### **(i) Anti-theft system**

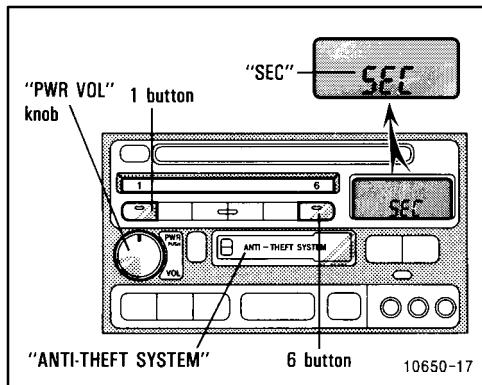
To deter theft of your radio unit, the system is designed so that the radio unit becomes inoperable if the unit is stolen from the vehicle.

The system is not preset at factory. You must input a three-digit identification number decided by you.

#### **NOTICE**

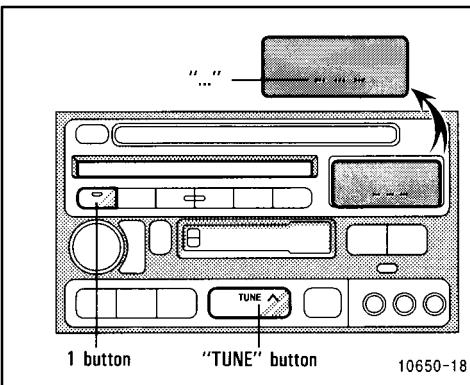
*If you pushed any wrong buttons on the anti-theft system, the following messages will appear on the display.*

- ◆ "Err"—*You have pushed wrong buttons.*
- ◆ "1-9"—*Indicates the number of errors you have made. You may make up to nine errors, but no more!*
- ◆ "HELP"—*The number of errors you can make was exceeded. The audio system is completely inoperable. Contact your Toyota dealer.*

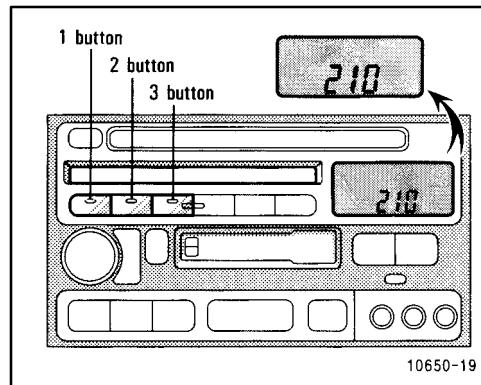


### Setting the anti-theft system

1. Make sure the radio unit is turned off with the ignition switch in "ACC".
2. While holding the 1 and 6 buttons in, push and hold the "PWR VOL" knob in until "SEC" appears on the display.

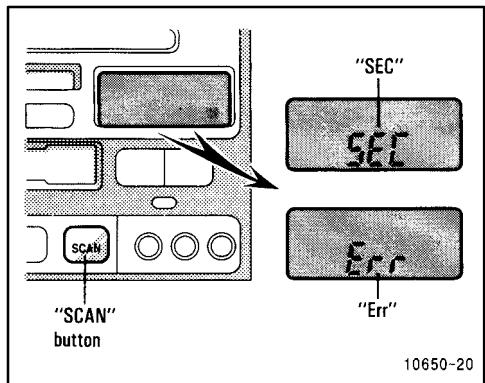


3. Press the 1 button while holding the right side of "TUNE" button in. "---" will appear on the display.



4. Input your identification number by pressing the 1, 2, and 3 buttons repeatedly. Use the 1 button for the first digit, the 2 button for the second digit and the 3 button for the last digit. For example, if your number is 210, press the 1 button three times, the 2 button twice and the 3 button once. If the display returns to "---" while inputting, try again.

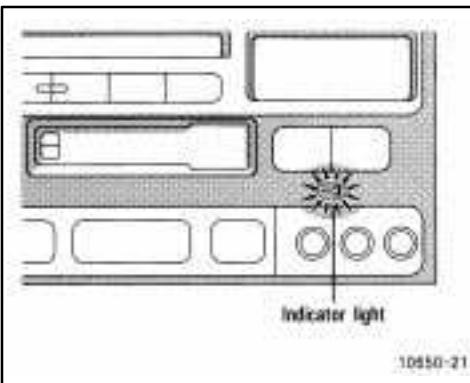
We recommend that your identification number be associated with something easy to remember. In case you are unsure of the number, write it in a notebook you normally carry. Do not leave it behind in your vehicle.



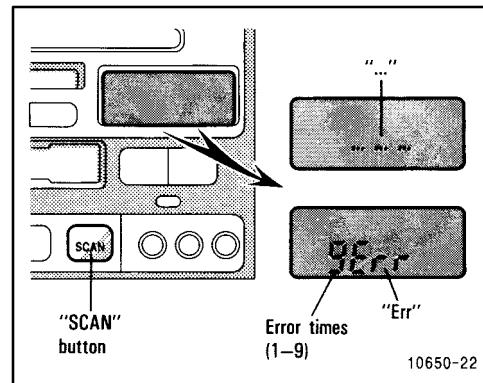
5. With your identification number appearing on the display, press the "SCAN" button and hold it in until "SEC" appears on the display. "SEC" will go off to indicate the system is set. If invalid buttons have been used, "Err" will appear on the display before "SEC" appears. Try again from the step 3.

Once the system is set, the indicator light turns on and off with the ignition switch "OFF" and "SEC" will appear each time the key is turned to the "ACC" position.

To change the identification number for some reason, cancel the system (See "Cancelling the anti-theft system") and set it again with a new number.

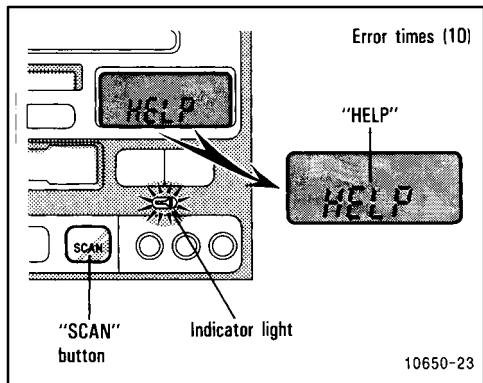


The system will be activated if the electrical power source is disconnected from the radio unit. When the system is activated, the audio system cannot be turned on even after the power supply resumes and "SEC" will appear on the display. If this happens, such as when the battery is discharged, see "If the anti-theft system is activated".



#### Cancelling the anti-theft system

1. Follow the steps 1 to 4 described in "Setting the anti-theft system".
2. With your identification number appearing on the display, press the "SCAN" button and hold it in until "---" appears on the display. "---" will go off to indicate the system is cancelled. If invalid buttons have been used, "Err" will appear on the display and "SEC" appears. Try again from step 3 in "Setting the anti-theft system".

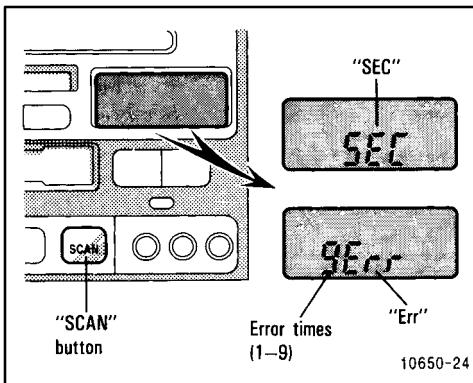


The figure with "Err" indicates how many errors you have made. You may make up to nine errors, but no more!

### NOTICE

**A tenth error will activate the anti-theft system and "HELP" will appear on the display. The audio system will be completely inoperable. At this time, the indicator light also comes on. If this occurs, contact your Toyota dealer.**

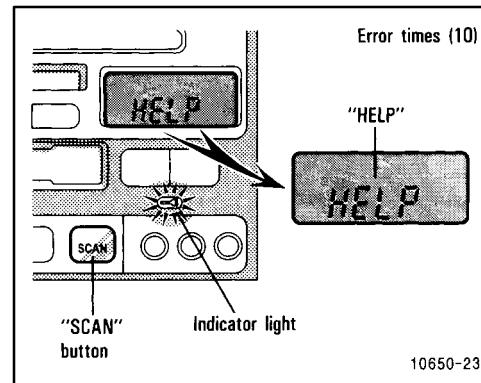
At the time of resale of your vehicle, cancel the system for the new owner.



### If the anti-theft system is activated

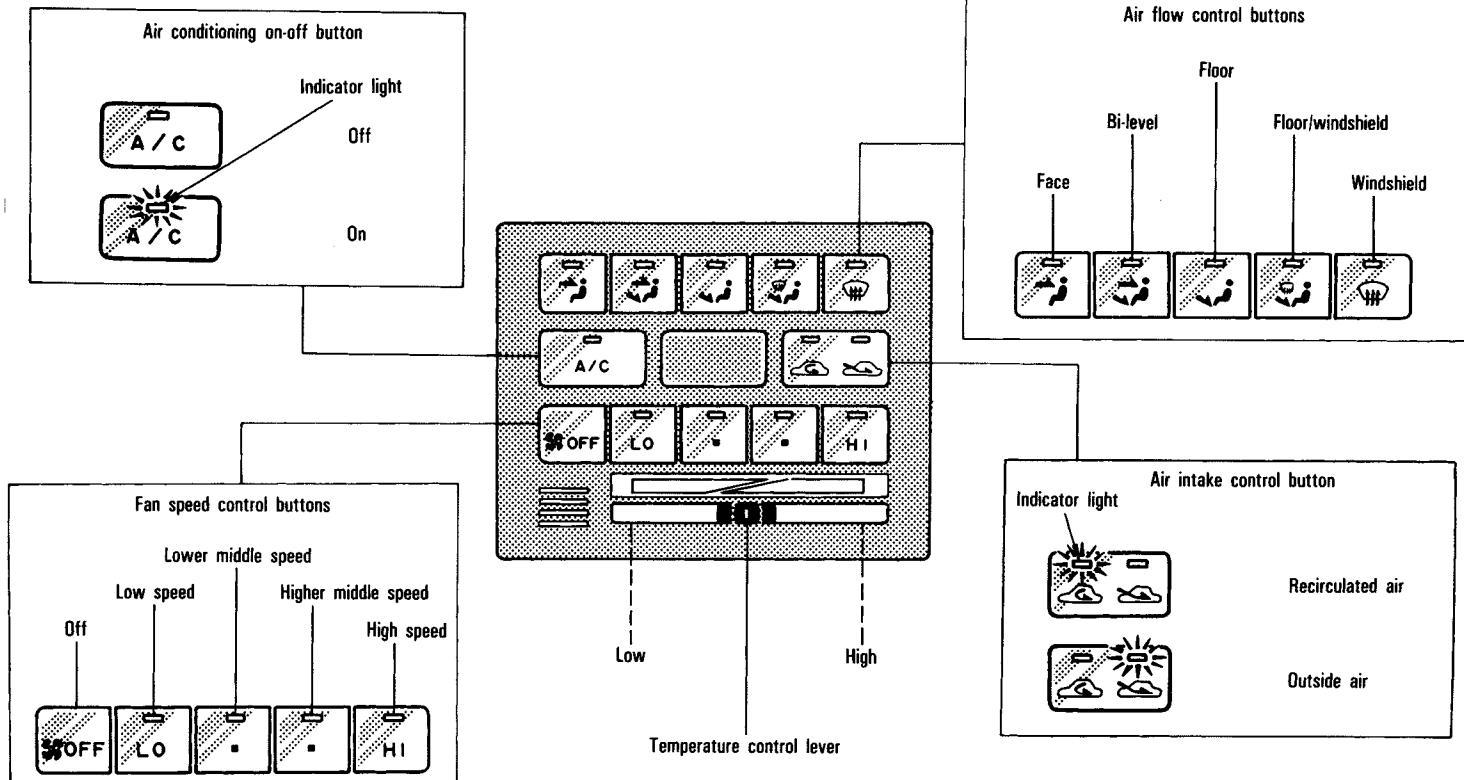
The audio system made inoperable by the activated anti-theft system will be operable if you give it the correct identification number.

1. Follow the steps 3 and 4 described in "Setting the anti-theft system".
2. With your identification number appearing on the display, press the "SCAN" button and hold it in until "SEC" appears on the display. "SEC" will go off to indicate that the system is reset and the audio system is operable. If invalid buttons have been used, "Err" will appear on the display before "SEC" appears. Try again from the beginning.



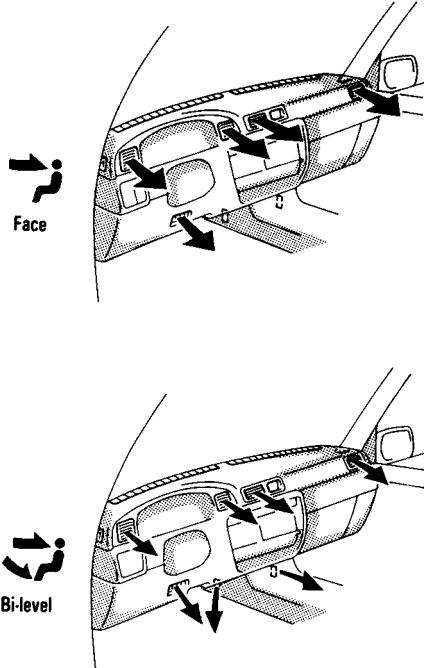
See "Cancelling the anti-theft system" for notes on the figure with "Err".

## Air conditioning controls



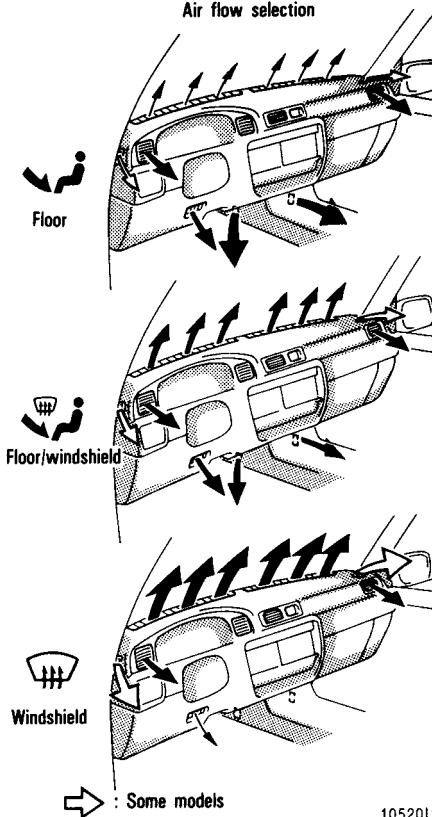
10520110

### Air flow selection



10520117

### Air flow selection



10520118

## (a) Controls and functions

The temperature control level is used to adjust the temperature of the delivered air.

Move the lever toward the HIGH position for higher temperature and toward the LOW position for lower temperature.

The air intake control button is used to select intake air, either outside air or recirculated air.

With the button in the OUTSIDE AIR mode, the system will take fresh outside air into the unit. For recirculated air, press in the button to the RECIRCULATED AIR mode. Pressing the button once again will let the button out in the OUTSIDE AIR mode.

The air flow control buttons are used to select the air flow outlets air is delivered from.

See "(f) Air flow selection" for detailed information.

The fan speed control buttons are used to turn on and off the fan and select the fan speed.

The higher the fan speed setting is, the more air is delivered. Pressing in the "OFF" button turns off the fan.

The air conditioning on-off button is used to turn on and off the air conditioning.

With the button pressed in, the air conditioning turns on. Pressing the button once again will turn the air conditioning off.

#### **(b) Heating**

1. Place the temperature control lever anywhere except the LOW position.

When dehumidified heating is desired, place the lever between the HIGH and middle positions.

If cooler air is desired at face level for bi-level operation, place the lever around the middle.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

If quick circulation of heated air is desired, press in the air intake control button to select the RECIRCULATED AIR mode.

For normal use, it is best to keep the air intake control button for outside air. If recirculated air is used during heating, the windows will fog up more easily.

3. Press in the FLOOR button of the air flow control buttons.

If cooler air is desired at face level for bi-level operation, press in the BI-LEVEL button.

If the windshield fogs up easily, press in the FLOOR/WINDSHIELD button.

For detailed information on air flow control including other settings, see "(f) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

5. Leave the air conditioning on-off button in the OFF position.

If dehumidified heating is desired, press in the air conditioning on-off button.

#### **(c) Cooling**

1. Place the temperature control lever anywhere between the middle and LOW positions.

If warmer air is desired at floor level for bi-level operation, place the lever around the middle.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

If quick circulation of cooled air is desired, press in the air intake control button to select the RECIRCULATED AIR mode.

For normal use, it is best to keep the air intake control button for outside air.

3. Press in the FACE button of the air flow control buttons.

If warmer air is desired at floor level for bi-level operation, press in the BI-LEVEL button.

For detailed information on air flow control including other settings, see "(f) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

5. Press in the air conditioning on-off button.

#### **(d) Ventilation**

1. Place the temperature control lever at the LOW position.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

3. Press in the FACE button of the air flow control buttons.

For detailed information on air flow control including other settings, see "(f) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

5. Leave the air conditioning on-off button in the OFF position.

#### **(e) Windshield defogging and defrosting**

To remove interior fog on the windshield;

1. Place the temperature control lever at any position.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

3. Press in the WINDSHIELD button of the air flow control buttons.

For detailed information on air flow control, see "(f) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

5. Press in the air conditioning on-off button.

To remove frost or exterior fog on the windshield;

1. Place the temperature control lever at the HIGH position.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

3. Press in the WINDSHIELD button of the air flow control buttons.

For detailed information on air flow control, see "(f) Air flow selection".

4. Press in the "HI" button of the fan speed control buttons.

5. Leave the air conditioning on-off button in the OFF position.

#### **(f) Air flow selection**

FACE button—This button directs the air flow to face level.

BI-LEVEL button—This button directs the air flow to face level and the floor. Except in ventilation, the air to the floor is slightly warmer than that to face level.

FLOOR button—This button directs the air flow mostly to the floor and front side windows.

FLOOR/WINDSHIELD button—This button directs the air flow to the windshield as well as the floor.

WINDSHIELD button—This button directs the air flow to the windshield and front side windows.

Do not use the WINDSHIELD button during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up blocking your vision.

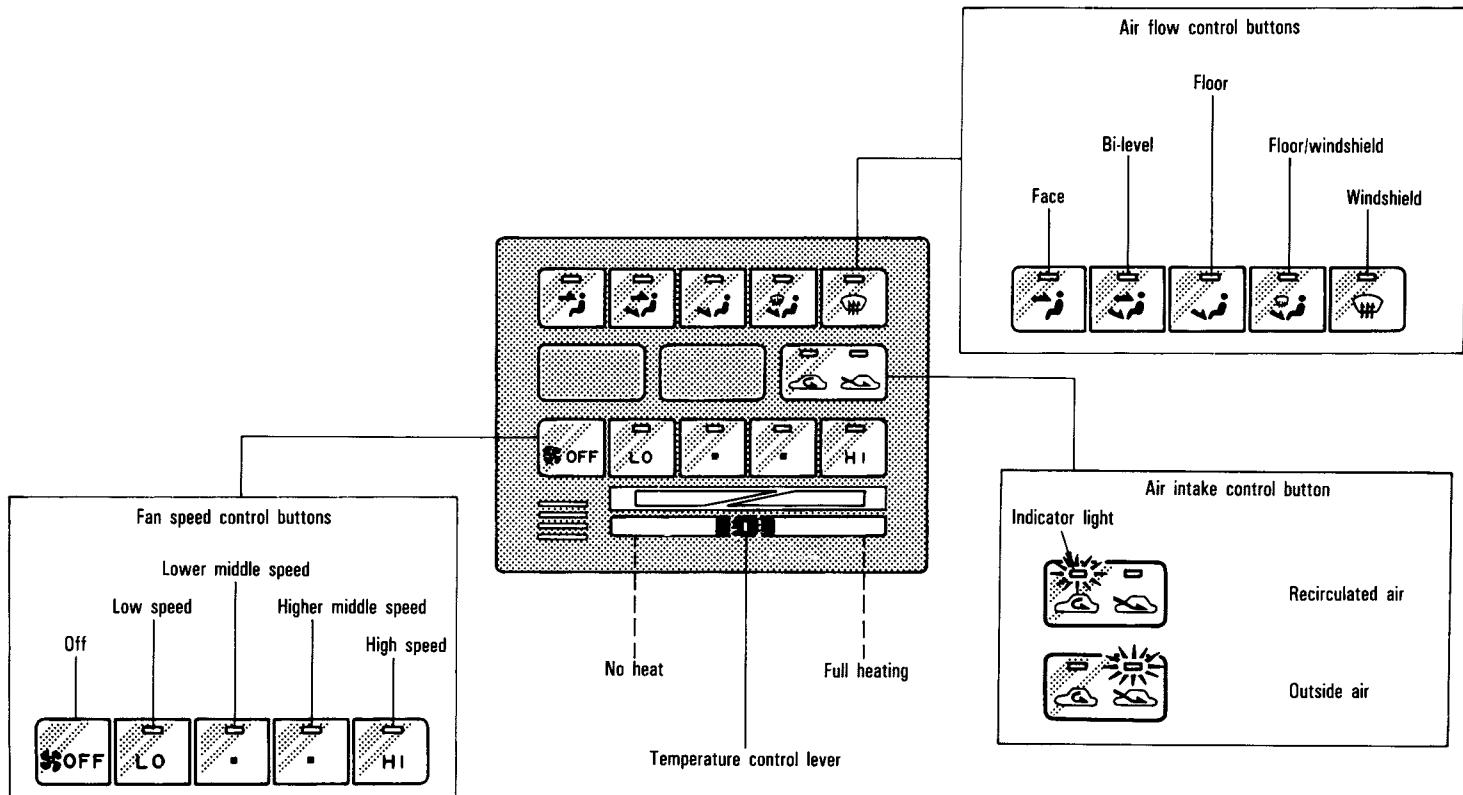
#### **(g) Operating tips**

- Be sure the air inlet grilles in front of the windshield are not blocked by leaves or other obstructions.
- If air flow control is not satisfactory, check the side vents. (See "Side vents" or Lower vent" after "Rear heater controls".)
- To help cool down the interior after parking in the hot sun, drive for the first few minutes with the windows open. After the excess heat has blown away, close the windows.

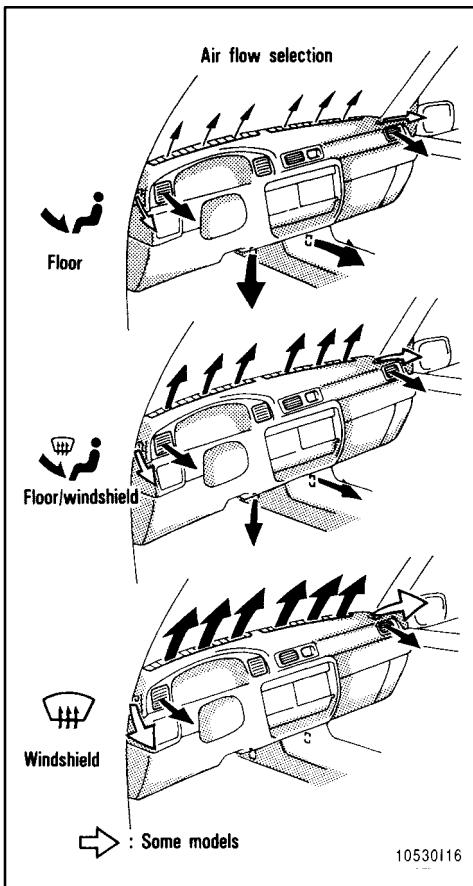
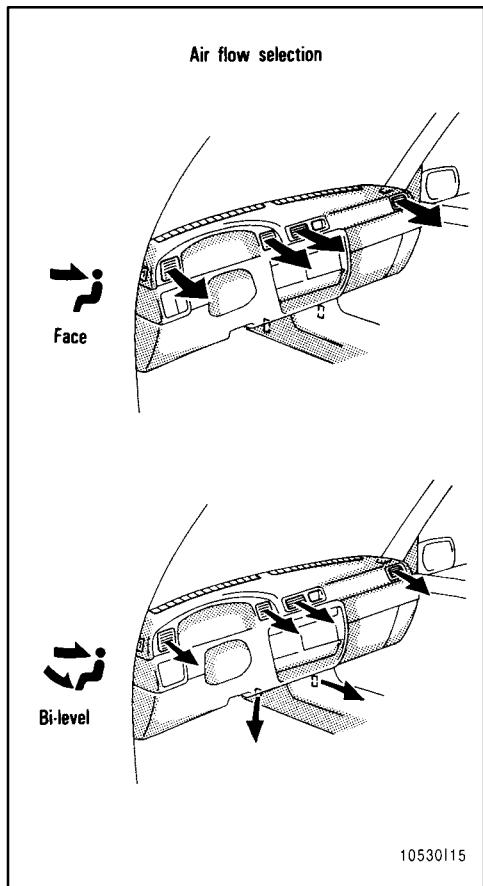
• When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake control button be set in the OUTSIDE AIR mode and any fan speed control button except the "OFF" button be pressed in.

• If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily set to select the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

## Heater controls



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### (a) Controls and functions

The temperature control level is used to turn on and off the heater and adjust the temperature of the heated air.

Move the lever toward the FULL HEATING position for higher temperature. Moving the lever to the NO HEAT position turns off the heater.

The air intake control button is used to select intake air, either outside air or recirculated air.

With the button in the OUTSIDE AIR mode, the system will take fresh outside air into the unit. For recirculated air, press in the button to the RECIRCULATED AIR mode. Pressing the button once again will let the button out in the OUTSIDE AIR mode.

The air flow control buttons are used to select the air flow outlets air is delivered from.

See "(e) Air flow selection" for detailed information.

The fan speed control buttons are used to turn on and off the fan and select the fan speed.

The higher the fan speed setting is, the more air is delivered. Pressing in the "OFF" button turns off the fan.

### (b) Heating

1. Place the temperature control lever anywhere except the NO HEAT position.

If cooler air is desired at face level for bi-level operation, place the lever around the middle.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

If quick circulation of heated air is desired, press in the air intake control button to select the RECIRCULATED AIR mode.

For normal use, it is best to keep the air intake control button for outside air. If recirculated air is used during heating, the windows will fog up more easily.

3. Press in the FLOOR button of the air flow control buttons.

If cooler air is desired at face level for bi-level operation, press in the BI-LEVEL button.

If the windshield fogs up easily, press in the FLOOR/WINDSHIELD button.

For detailed information on air flow control including other settings, see "(e) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

### **(c) Ventilation**

1. Place the temperature control lever at the NO HEAT position.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

3. Press in the FACE button of the air flow control buttons.

For detailed information on air flow control including other settings, see "(e) Air flow selection".

4. Press in any fan speed control button except the "OFF" button.

### **(d) Windshield defogging and defrosting**

1. Place the temperature control lever at the FULL HEATING position.

2. Press in the air intake control button to select the OUTSIDE AIR mode.

3. Press in the WINDSHIELD button of the air flow control buttons.

For detailed information on air flow control, see "(e) Air flow selection".

4. Press in the "HI" button of the fan speed control buttons.

### **(e) Air flow selection**

**FACE** button—This button directs the air flow to face level.

**BI-LEVEL** button—This button directs the air flow to face level and the floor. Except in ventilation, the air to the floor is slightly warmer than that to face level.

**FLOOR** button—This button directs the air flow mostly to the floor and front side windows.

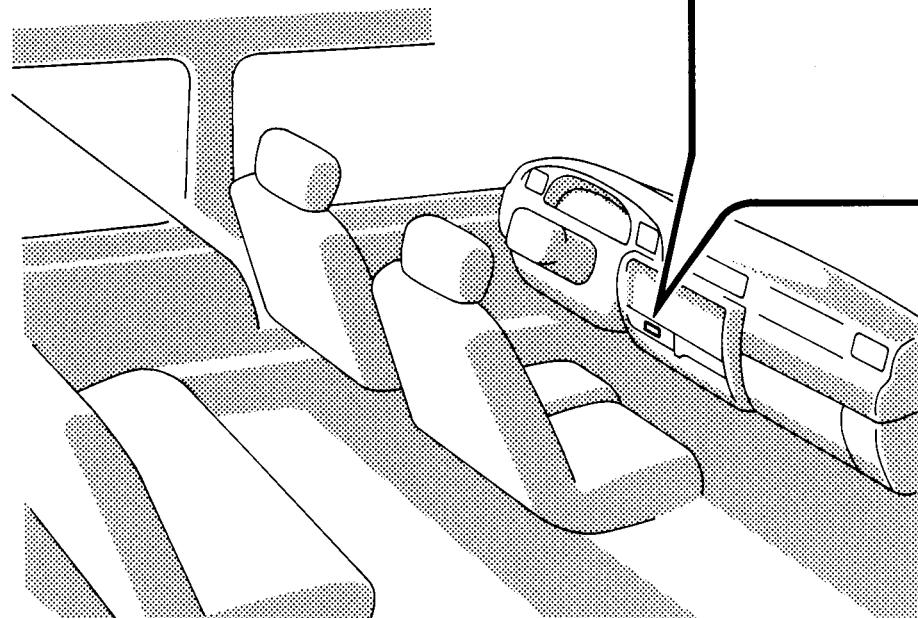
**FLOOR/WINDSHIELD** button—This button directs the air flow to the windshield as well as the floor.

**WINDSHIELD** button—This button directs the air flow to the windshield and front side windows.

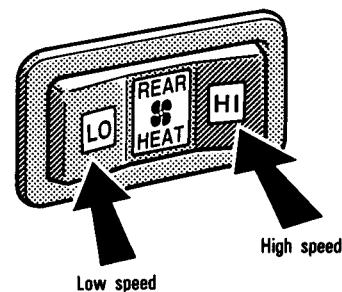
### **(f) Operating tips**

- Be sure the air inlet grilles in front of the windshield are not blocked by leaves or other obstructions.
- If air flow control is not satisfactory, check the side vents. (See "Side vents" after "Boost ventilator controls".)
- 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 control button be set in the OUTSIDE AIR mode and any fan speed control button except the "OFF" button be pressed in.
- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily set to select the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

## Rear heater controls



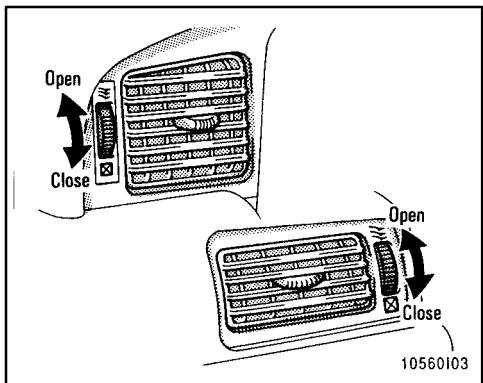
Fan speed control switch



**HEATING:**  
Push the fan speed control switch  
on either side.

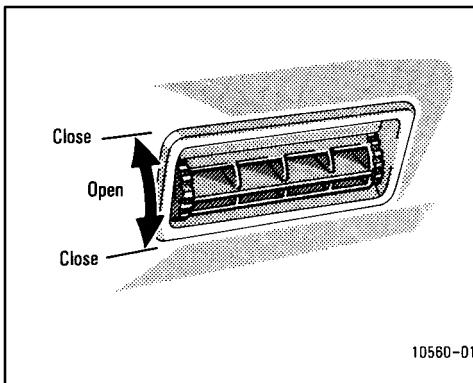
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## Side vents



The side vents may be opened or closed as shown.

## Lower vent



The lower vent may be opened or closed as shown.



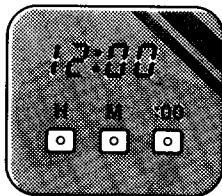
# Part 1

## OPERATION OF INSTRUMENTS AND CONTROLS—

### Chapter 1-8 Other equipment

- Clock
- Cigarette lighter and ashtray
- Glovebox
- Luggage cover
- Tie-down hooks
- Floor mat

#### Clock



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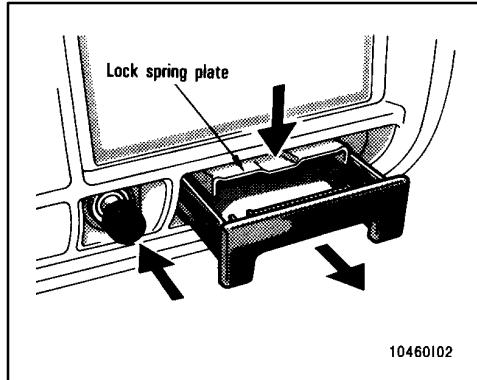
The digital clock indicates the time with the ignition key at the “ACC” or “ON” position. To reset the hour, depress the “H” button. To reset the minutes, depress the “M” button. To adjust the time to a full hour, depress the “:00” button.

For example, if the “:00” button is depressed when the time is between 1:01—1:29, the time will change to 1:00. If the time is between 1:30—1:59, the time will change to 2:00.

When the instrument panel lights are turned on, the brightness of the time indication will be reduced.

Once the electrical power source has been disconnected from the clock, the time is automatically set to 1:00 (one o'clock).

#### Cigarette lighter and ashtray



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To operate the cigarette lighter, press it in. When it becomes heated, 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.

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

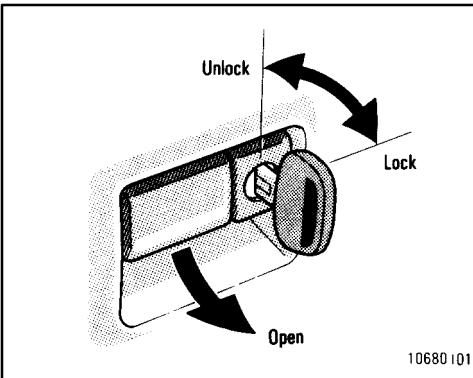
Use a Toyota genuine cigarette lighter or equivalent for replacement.



## CAUTION

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

## Glovebox



To open the glovebox door, pull the lever. To lock the glovebox door, insert the master key and turn it clockwise.

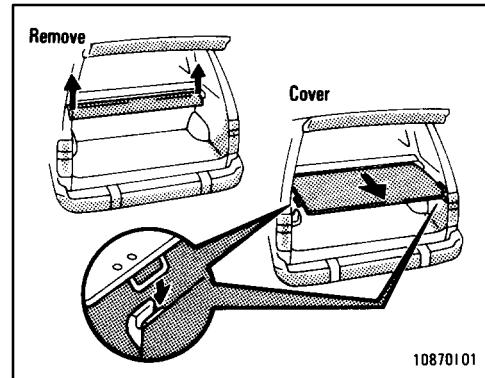
With the instrument panel lights on, the glovebox light will come on when the door is open.



## CAUTION

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

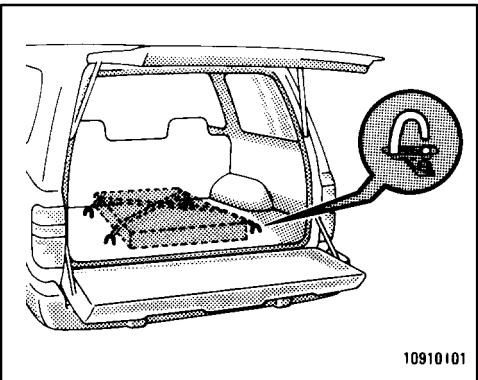
## Luggage cover



To use the luggage cover, pull it out of the retractor and hook it to the anchors.

The luggage cover may be removed as shown.

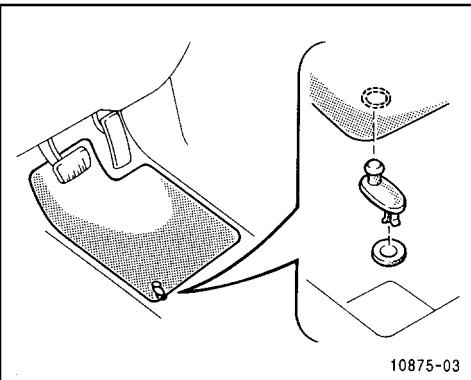
## Tie-down hooks



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

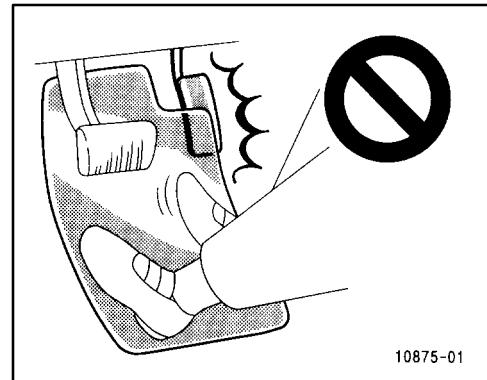
See "Luggage stowage precautions" in Part 2 for precautions to observe in loading luggage.

## Floor mat



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

If the floor mat has a hole, then it is designed for use with a locking clip. Fix the floor mat and 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.**

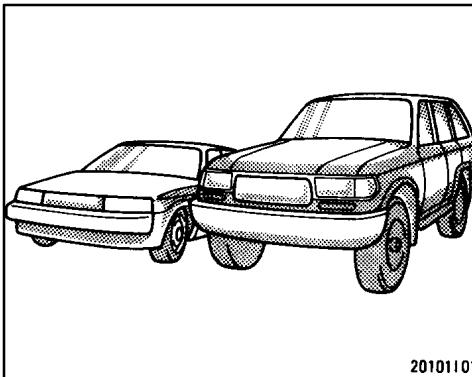


# Part 2

## INFORMATION BEFORE DRIVING YOUR TOYOTA

- Off-road vehicle precautions
- Break-in period
- Fuel
- Operation in foreign countries
- Three-way catalytic converter
- Engine exhaust cautions
- Facts about engine oil consumption
- Brake system
- Brake pad wear limit indicators
- Luggage stowage precautions
- Rear step bumper
- Your Toyota's identification
- Theft prevention labels
- Suspension and chassis
- Types of tires

### Off-road vehicle precautions



This vehicle is one of the class of vehicles which have higher ground clearance and narrower tread in relation to the height of their center of gravity to make them capable of performing in a wide variety of off-road applications. Specific design characteristics give it a higher center of gravity than ordinary cars. An advantage of the higher ground clearance is a better view of the road allowing you to anticipate problems. It is not designed for cornering at the same speeds as conventional two-wheel drive vehicles any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.



Always observe the following precautions to minimize the risk of serious personal injury or damage to your vehicle:

- Avoid sharp turns or abrupt maneuvers, if at all possible. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover.
- Avoid loading any items on the roof that will make the center of gravity even higher.
- Always slow down in gusty cross-winds. Because of its high center of gravity, your vehicle is more sensitive to side winds than an ordinary passenger car. Slowing down will allow you to have much better control.
- Do not drive horizontally across steep slopes. Driving straight up or straight down is preferred. Your vehicle (or any similar off-road vehicle) can tip over sideways much more easily than forward or backward.



## CAUTION

- When driving off-road or in rugged terrain, do not drive at excessive speeds, jump, or strike objects, etc. This may cause loss of control or vehicle rollover. You are also risking expensive damage to your vehicle's suspension and chassis.

## 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:

- Do not drive over 88 km/h (55 mph).
- Run the engine at moderate speed between 2000 and 4000 rpm.
- Avoid full-throttle starts.
- 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 mixups, your Toyota has a new 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.

### 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 NUMBER

**Select Research Octane Number 91 (Octane Rating 87) or higher.**

Use of unleaded fuel with an octane number or rating lower than stated above will cause persistent heavy knocking. If 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 cause for concern.

### **GASOLINES CONTAINING DETERGENT ADDITIVES**

**Toyota recommends use of gasolines that contain detergent additives to avoid build-up of engine deposits.**

For further details, ask your Toyota dealer or a local gasoline retailer.

### **GASOLINES CONTAINING MTBE**

**Gasolines that contain MTBE (Methyl Tertiary-Butyl Ether) are available in the market. If you use a gasoline mixed with MTBE, make certain that it does not contain more than 15% of MTBE.**

If the use of gasolines containing MTBE causes poor driveability and/or poor fuel economy, you should discontinue the use of fuels containing MTBE.

### **GASOLINES CONTAINING ALCOHOL**

**If you use of gasohol in your Toyota, be sure that it is unleaded, has an octane rating no lower than 87 and does not contain more than 10% ethanol.**

Gasohol is a mixture of gasoline and ethanol.

Toyota does not recommend the use of gasolines containing methanol. If you use gasoline containing methanol, use only gasoline meeting the requirements above and also containing less than 5% methanol with cosolvents and corrosion inhibitors for methanol.

#### **NOTICE**

- ◆ *Do not use gasohol other than stated above. It will cause fuel system damage or vehicle performance problems.*
- ◆ *If driveability problems are encountered (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**

95 L (25.1 gal., 20.9 Imp. gal.)

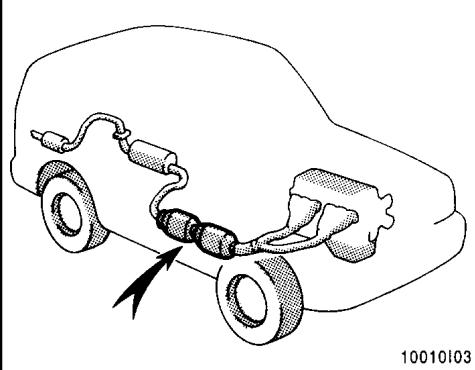
## **Operation in foreign countries**

**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 converter



The three-way catalytic converter is an emission control device installed in the exhaust system.

It looks somewhat like a muffler, but its 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 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 systems 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 separate "Owner's Manual Supplement/Maintenance Schedule".

## 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 back door closed while driving. An open or unsealed back door may cause exhaust gases to be drawn into the vehicle. If you must drive with the back door open to accommodate a large object, close the windows, open all the instrument panel vents and have the heating or cooling system deliver fresh air into the vehicle by turning the fan to high speed with the air intake control set at the OUTSIDE AIR position.
- 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 back door 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 the 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 the 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 the oil level check, see "Checking the engine oil level" in Chapter 7-2.

## **Brake system**

### **Tandem master cylinder 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.



**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 reserve vacuum for one or two stops—but no more!



- Do not pump the brake pedal if the engine stalls. Each push on the pedal uses up your vacuum reserve.**

- 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 prevent lock-up of the wheels during sudden braking or braking on slippery road surfaces. This assists the driving in controlling the vehicle under these circumstances.

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).

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 anti-lock brake system is in the self check mode, and does not indicate a malfunction.

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.

The brake pedal pulsation caused by the anti-lock brake system may indicate hazardous road surface conditions. Although the anti-lock brake system assists in providing vehicle control, it is still important to drive with all due care, because the anti-lock brake system cannot overcome the laws of physics that act on your vehicle:

- Braking capability is dependent on tire friction with the road surface.
- Even though the anti-lock brake system is operating, a driver cannot maintain full control on certain slippery road surfaces, when cornering at high speeds, or in violent maneuvers.
- Avoid high speeds on wet roads. The anti-lock brake system cannot eliminate the risk of hydroplaning and loss of tire friction.

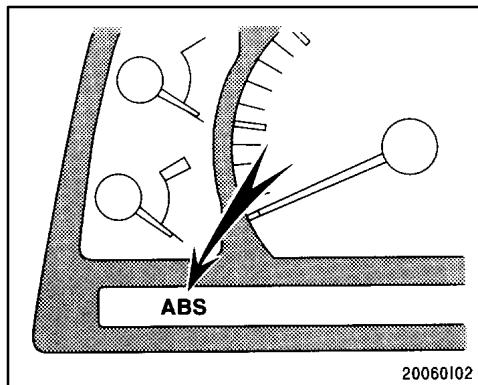
Always maintain a safe distance from the vehicle in front of you. Compared with vehicles not fitted with an anti-lock brake system, your vehicle may require a longer stopping distance in the following cases:

- Driving on rough, gravel or snow-covered roads.
- Driving with tire chains installed.
- Driving on roads where the road surface is pitted or has other differences in surface height.



### CAUTION

- Do not use tires other than the manufacturer's designated tires, and do not mix tires or wheels of different sizes. You may prevent the anti-lock brake system from operating at full effectiveness.



### **"ABS" warning light**

This light comes on when the ignition key is turned to the "ON" position. After about 3 seconds, the light will go off.

When the light is on with the rear differential locked, it indicates the anti-lock brake system will not operate.

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 as described above, or remains on.
- The light comes on while driving with the center differential unlocked.
- The light does not come on with the center differential locked.
- The system comes into operation with the center differential locked.

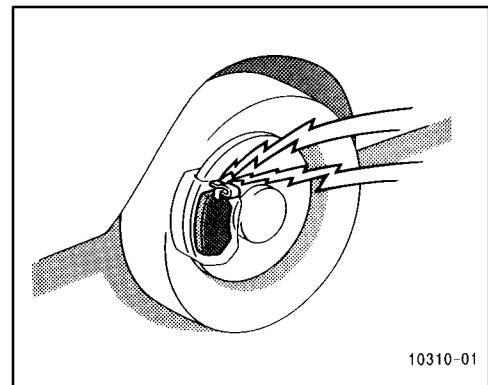
Even if the anti-lock brake system should fail, the brake system will still operate conventionally. Have your vehicle checked by your Toyota dealer as soon as possible.

### **Drum-in-disk type parking brake system**

Your vehicle has a drum-in-disk 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 pad wear limit indicators**



**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 luggage compartment 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

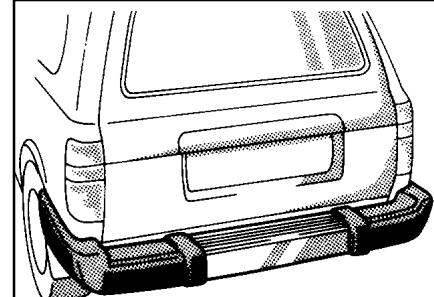
- To prevent luggage or packages from sliding forward during braking, do not stack anything in the luggage compartment higher than the seatbacks.
- Never allow anyone to ride in the luggage compartment. It is not designed for passengers. They should ride in their seats with their seat belts properly fastened. Otherwise, they are much more likely to suffer serious bodily injury, in the event of sudden braking or a collision.

- Do not 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 given in Part 8.*

## Rear step bumper



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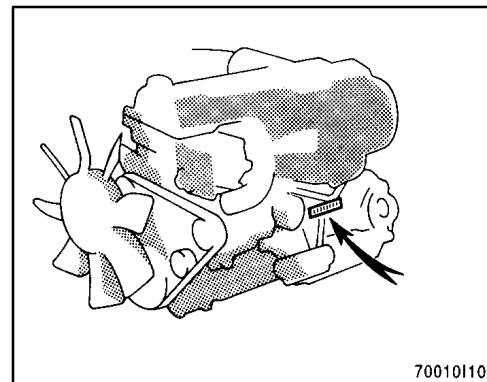
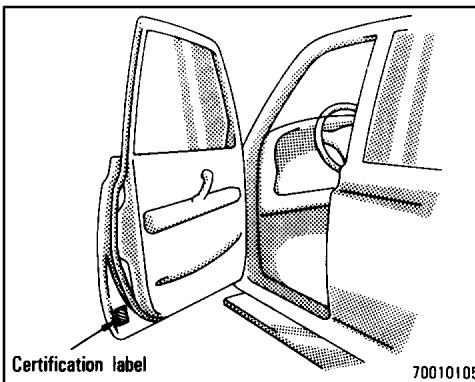
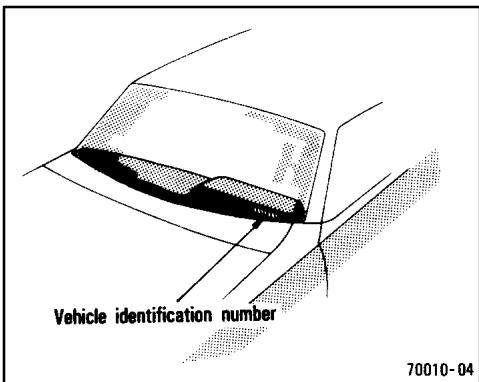
The rear step bumper is for rear end protection and easier step-up loading.



### CAUTION

- Do not allow more than one person to get on the rear step bumper at a time. It is designed for only one person.
- Never drive the vehicle with anyone on the rear step bumper.

## Your Toyota's identification



**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.**

The vehicle identification number (VIN) is also on the Certification Label.

This is the primary identification number for your Toyota. It is used in registering the ownership of your vehicle.

**The engine number is stamped on the engine block as shown.**

## Theft prevention labels

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



- 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.



- Do not mix summer and all season tires on your vehicle as this can cause dangerous handling characteristics, resulting in loss of control.



# Part 3

## STARTING AND DRIVING

- Before starting the engine
- How to start the engine
- Tips for driving in various conditions
- Off-road driving precautions
- Winter driving tips
- Trailer towing
- How to save fuel and make your vehicle last longer, too

### Before starting the engine

1. Check the area around the vehicle before entering it.
2. Adjust seat position, seatback angle, head restraint height and steering wheel angle.
3. Adjust inside and outside rear view mirrors.
4. Lock all 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 Part 4.

## Tips for driving in various conditions

- Always slow down in gusty cross-winds. This will allow you much better control.
- Drive slowly onto curbs and, if possible, at a right angle. Avoid driving onto high, sharp-edged objects and other road hazards. Failure to do so can lead to severe tire damage resulting in tire bursts.
- When parking on a hill, turn the front wheels until they touch the curb so that the vehicle will not roll. Apply the parking brake, and place the transmission in "P". If necessary, block the wheels.
- Washing your vehicle or driving through deep water may get the brakes wet. To see whether they are wet, check that there is no traffic near you, and then press the pedal lightly. If you do not feel a normal braking force, the brakes are probably wet. To dry them, drive the vehicle cautiously while lightly pressing the brake pedal with the parking brake pulled. If they still do not work safely, pull to the side of the road and call a Toyota dealer for assistance.



### 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, up-shifting, 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.

## Off-road driving precautions

When driving your vehicle off-road, please observe the following precautions to ensure your driving enjoyment and to help prevent the closure of areas to off-road vehicles.

- a. Drive your vehicle only in areas where off-road vehicles are permitted to travel.
- b. Respect private property. Get owner's permission before entering private property.
- c. Do not enter areas that are closed. Honor gates, barriers and signs that restrict travel.
- d. Stay on established roads. When conditions are wet, driving techniques should be changed or travel delayed to prevent damage to roads.

For owners in U.S. mainland, Hawaii and Puerto Rico:

To obtain additional information pertaining to driving your vehicle off-road, consult the following organizations.

- State and Local Parks and Recreation Departments
- State Motor Vehicle Bureau
- Recreational Vehicle Clubs
- U.S. Forest Service and Bureau of Land Management



## CAUTION

Always observe the following precautions to minimize the risk of serious personal injury or damage to your vehicle:

- Drive carefully when off the road. Do not take unnecessary risks by driving in dangerous places.
- Do not grip the steering wheel spokes when driving off-road. A bad bump could jerk the wheel and injure your hands. Keep both hands and especially your thumbs on the outside of the rim.
- Always check your brakes for effectiveness immediately after driving in sand, mud, water or snow.
- After driving through tall grass, mud, rock, sand, rivers, etc., check that there is no grass, bush, paper, rags, stone, sand etc. adhering or trapped on the underbody. If the vehicle is used with these materials trapped or adhered to the underbody, this condition may reach a point where a breakdown or fire could occur.
- The driver and all passengers should fasten their seat belts whenever the vehicle is moving.

## NOTICE

- ◆ *If driving through water, such as when crossing shallow streams, first check the depth of the water and the bottom of the river bed for firmness. Drive slowly and avoid deep water.*
- ◆ *Take all necessary safety measures to ensure that water damage to the engine or other components does not occur. Water entering the engine air intake will cause severe engine damage. Water can wash the grease from wheel bearings, causing rusting and premature failure, and may also enter the differential, transmission and transfer case, reducing the gear oil's lubricating qualities.*
- ◆ *Sand and mud that has accumulated in brake drums and around brake discs may affect braking efficiency and may damage brake system components.*
- ◆ *Always perform a maintenance inspection after each day of off-road driving that has taken you through sand, mud, or water. For scheduled maintenance information, refer to the separate "Owner's Manual Supplement/Maintenance Schedule".*

## Winter driving tips

Make sure you have ethylene-glycol antifreeze in the radiator.

## NOTICE

*Do not use alcohol type coolant.*

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. Chapter 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 Chapter 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. To open a frozen lock, try heating the key before inserting it.

## 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 as washer fluid 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 front 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.

## Trailer towing

Your vehicle is designed primarily as a passenger-and-load-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. Ask your local Toyota dealer for further details before towing.

### WEIGHT LIMITS

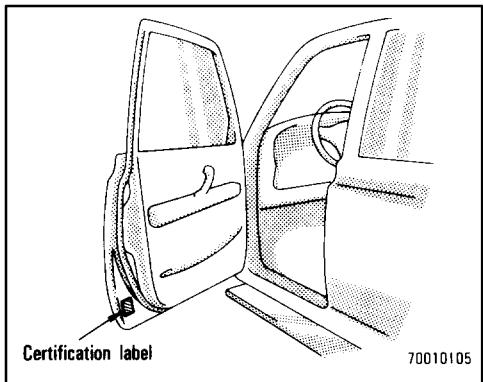
**Before towing, make sure the total trailer weight, gross combination weight, gross vehicle weight, gross axle weight and trailer tongue load are all within the limits.**

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 the following. Exceeding this weight is dangerous. If towing a trailer over 907 kg (2000 lb.), it is necessary to use a sway control device with a sufficient capacity.



Certification label

70010105

**Without towing package**  
1587 kg (3500 lb.)

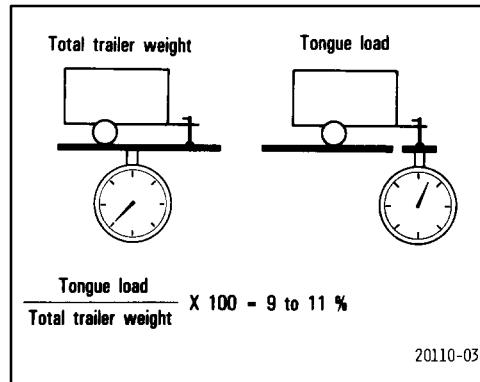
**With towing package**  
2268 kg (5000 lb.)

- The gross combination weight (sum of your vehicle weight plus its load and the total trailer weight) must not exceed the following.

**Without towing package**  
4547 kg (10025 lb.)

**With towing package**  
5228 kg (11525 lb.)

- 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.



$$\frac{\text{Tongue load}}{\text{Total trailer weight}} \times 100 = 9 \text{ to } 11 \%$$

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- 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 the following. 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.

**Without towing package**  
158 kg (350 lb.)

**With towing package**  
226 kg (500 lb.)

## HITCHES

- Use only a weight carrying hitch designed for the total trailer weight. Toyota does not recommend using a weight distribution (load equalizing) hitch.
- The hitch must be bolted securely to the vehicle frame and installed according to the hitch manufacturer's instructions.
- The hitch ball and king pin should have a light coat of grease.
- Toyota recommends removing the hitch when not towing to prevent injury and/or damage due to the hitch in event of a rear end collision. After removal of the hitch, seal the installation area to prevent entry of exhaust fumes and mud.

### NOTICE

***Do not use an axle-mounting hitch as it may cause damage to the axle housing, wheel bearings, wheels and/or tires.***

## 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 Chapter 7-2 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 “Owner’s Manual Supplement/Maintenance Schedule”.
- Retighten all fixing bolts of the towing ball and bracket after approximately 1000 km (600 miles) of trailer driving.

## PRE-TOWING SAFETY CHECK

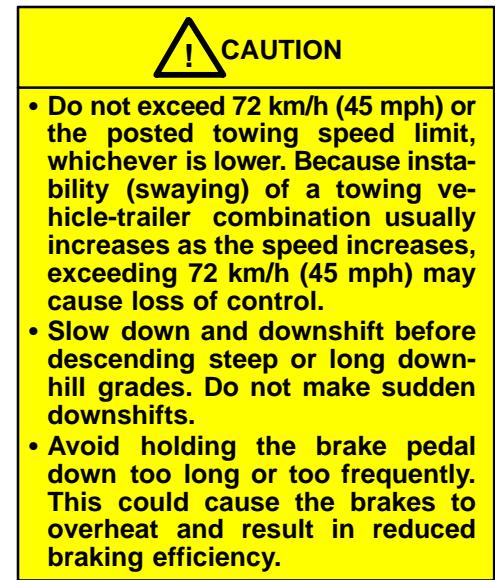
- Check that your vehicle remains level when a loaded or unloaded trailer is hitched. Do not drive if the vehicle has an abnormal nose-up or nose-down condition, and check for improper tongue load, overload, worn suspension or other possible causes.
- Make sure the trailer cargo is securely loaded so that it cannot shift.
- Check that your rear view mirrors conform to any applicable federal, state/provincial or local regulation. 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.
- 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.
- 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.

- 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 itself.
- 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 the “D” position.
- 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 Part 4 of this manual.
- 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.



## How to save fuel and make your vehicle last longer, too

Getting more kilometers/mileage from a liter/gallon of fuel 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 Chapter 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.
- **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 overrevving.** 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 needless 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 separate “Owner’s Manual Supplement/Maintenance Schedule”).



**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.

# Part 4

## IN CASE OF AN EMERGENCY

- If your vehicle will not start
- If your engine stalls while driving
- If your vehicle overheats
- If you have a flat tire
- If your vehicle needs to be towed
- If you cannot shift automatic transmission selector lever
- If you lose your keys

### 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 Part 3 and that you have sufficient fuel.

#### 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. Check that all the push-on connectors are tight. (For example, connectors at the distributor and spark plugs)
2. If the connectors are O.K., the engine may be flooded because of repeated cranking. See "(b) Starting a flooded engine" for further instructions.

## (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 so for 15 seconds and release them. Then try starting the engine with your foot off the accelerator pedal.

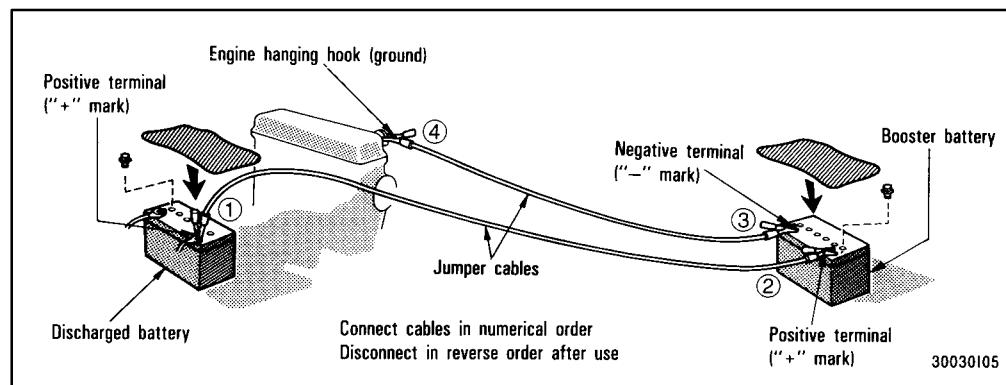
If the engine does not start after 15 seconds of cranking, release the key, wait a few minutes and try again.

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 15 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 for at least 15 minutes. 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.

### 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 battery. Lay a cloth over the open vents on the battery. (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. Connect the jumper cables in the exact order shown in the illustration: positive terminal ("+" mark)-to-positive terminal, and negative terminal ("-" mark)-to-engine or body ground. Note that you first connect the positive cable to the discharged battery and then to the booster battery. Next, connect the negative cable to the booster battery and then to a solid, stationary, metallic point (e.g. engine hanging hook) away from the battery. Do not connect it to or near any part that moves when the engine is cranked.

### NOTICE

***When making the connections, 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.

## 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".



**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.



**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. Visually check to see if the engine drive belt (fan belt) is broken or loose. 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 engine drive belt is broken or the coolant is leaking, stop the engine immediately. Call a Toyota dealer for assistance.
5. If the engine drive belt is O.K. and there are no obvious leaks, you may help the engine cool down more quickly by running it at about 1500 rpm for a few minutes with the accelerator pedal lightly depressed.
6. 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.

7. 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

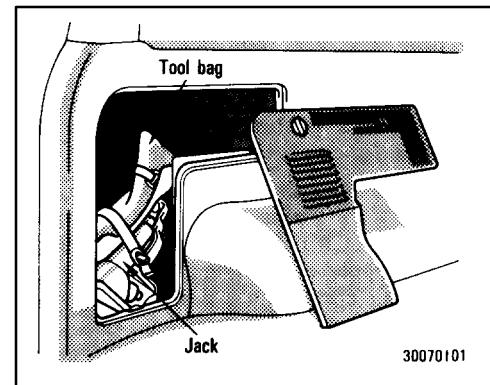
When jacking, be sure to observe the following to reduce the possibility of personal injury:

- Follow jacking instructions.
- Use the jack only for lifting your vehicle during wheel changing.
- Never get beneath the vehicle when supported by a jack.
- Do not start or run the engine while your vehicle is supported by a jack.

### NOTICE

*Do not continue driving with a deflated tire. Driving even a short distance can damage a tire beyond repair.*

## —Required tools and spare tire

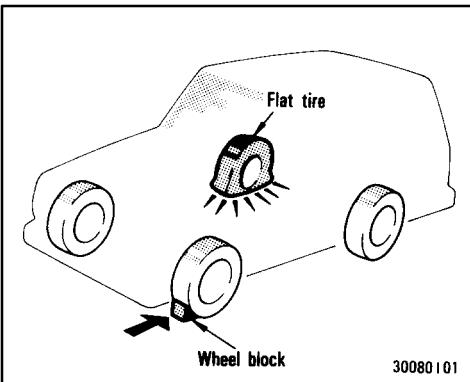
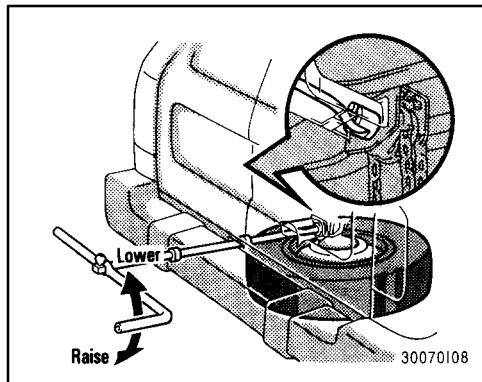


1. Get the tool bag, jack and spare tire.

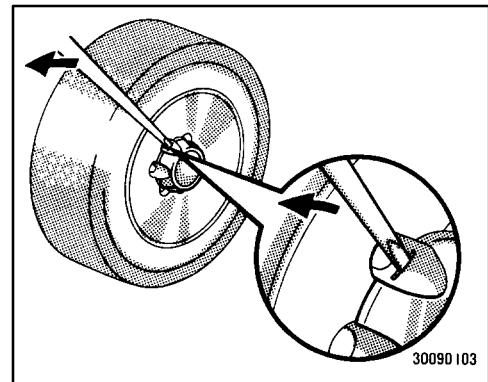
To prepare yourself for an emergency, you should familiarize yourself with the use of the jack, each of the tools and their storage locations.

When storing the jack, put it into place and secure to prevent it from flying forward during a collision or sudden braking.

## —Blocking the wheel



## —Removing wheel ornament



To remove the spare tire:

1. Insert the end of the jack handle extension into the lowering screw and turn it counterclockwise with the handle, making sure that the handle remains firmly fitted onto the jack handle extension.

2. After the tire is lowered completely to the ground, remove the holding bracket.

When storing the spare tire, put it in place with the outer side of the wheel facing up. Then secure the tire, taking care that the tire goes straight up without catching on any other part, to prevent it from flying forward during a collision or sudden braking.

### 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.

### 3. Remove the wheel ornament.

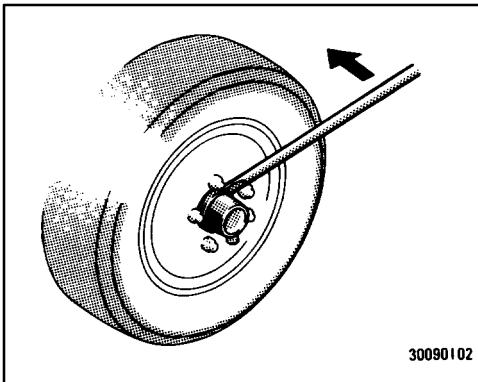
Pry off the wheel ornament, using the beveled end of the wheel ornament remover as shown.



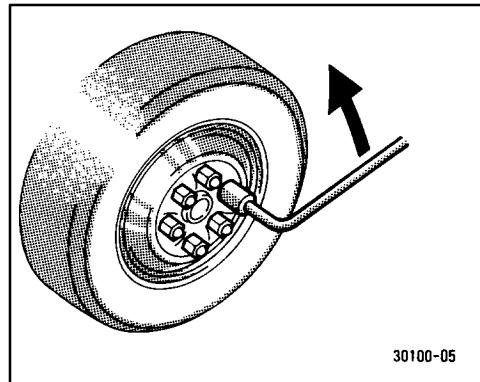
**CAUTION**

**Do not try to pull the ornament by hand. Take due care in handling the ornament to avoid unexpected personal injury.**

## —Loosening wheel nuts



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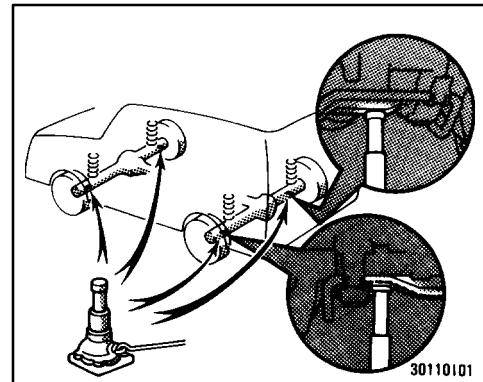
### 4. Loosen all the wheel nuts.

Always loosen the wheel nuts before raising the vehicle.

The nuts turn 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.

## —Positioning the jack



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### 5. Position the jack at the correct jack point as shown

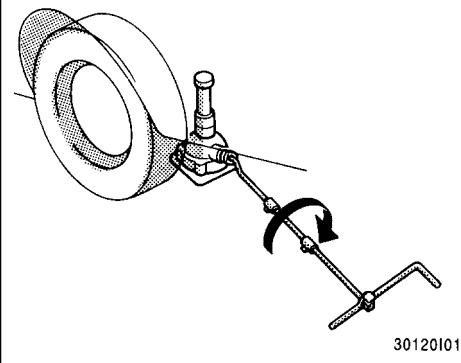
Make sure the jack is positioned on a level and solid place.

#### JACK POINTS:

Front—Under the front axle housing between the suspension arm and the wheel

Rear—Under the rear axle housing near the wheel

## —Raising your vehicle

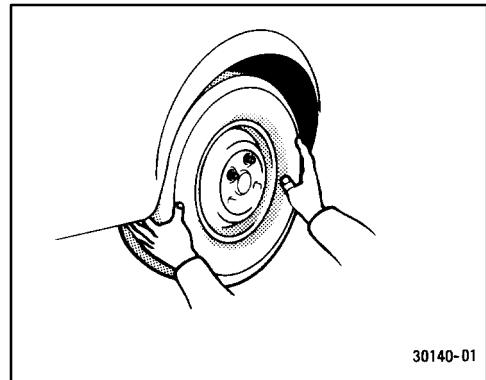


### 6. After making sure that no one is in the vehicle, raise it high enough so that the spare tire can be installed.

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 extension into the jack (it is a loose fit) and turn it clockwise with the handle, making sure the handle remains firmly fitted onto the jack handle extension. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.

## —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.



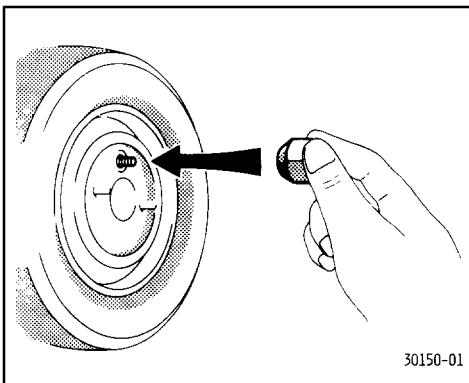
CAUTION

Never get under the vehicle when it is supported by the jack alone.

## —Reinstalling wheel nuts



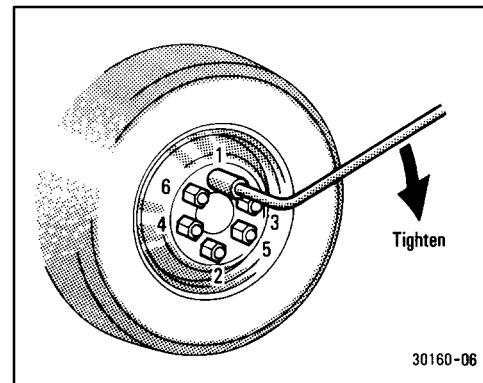
Before putting on wheels, remove any corrosion on the mounting surfaces with a wire brush or such. Installation of wheels without good metal-to-metal contact at the mounting surface can cause wheel nuts to loosen and eventually cause a wheel to come off while driving. Therefore after the first 1600 km (1000 miles), check to see that the wheel nuts are tight.



### 8. Reinstall all the wheel nuts finger tight.

Reinstall the wheel nuts 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



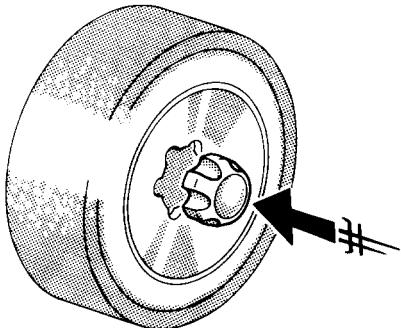
### 9. Lower the vehicle completely and tighten the wheel nuts.

To lower the vehicle, turn the jack handle extension counterclockwise with handle making sure the handle remains firmly fitted onto the jack handle extension.

Use only the wheel nut wrench 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.

## —Reinstalling wheel ornament



### 10. Reinstall the wheel ornament.

Put the wheel ornament into position and 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 Part 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 as possible after changing wheels, tighten the wheel nuts to the torque specified in Part 8 with a torque wrench, and have a technician repair the flat tire.



#### 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 needs to be towed—

### (a) Using flat bed truck



### (b) Towing with wheel lift type truck—

—From front



—From rear



### (c) Towing with sling type truck



(Rear towing is also possible)

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## —Emergency towing

**If towing is necessary, we recommend you have it done by your Toyota dealer or a commercial tow truck service.**

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 few 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.

#### **(a) Using flat bed truck**

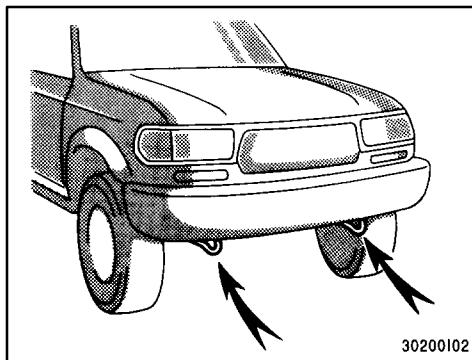
Toyota recommends this as the best method for your vehicle.

#### **(b) Towing with wheel lift type truck**

Use a towing dolly under the wheels not lifted by the truck.

#### **(c) Towing with sling type truck**

Follow the instruction in "(b) Towing with wheel lift type truck".



### **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.

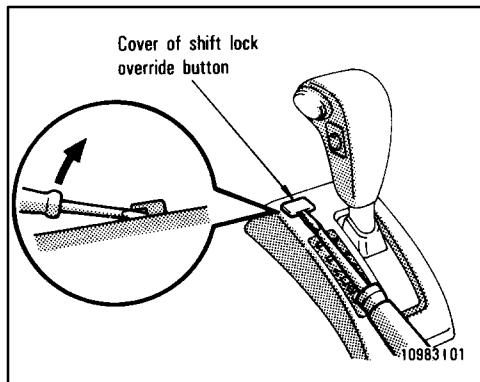
**If towing service is not available in an emergency, your vehicle may be temporarily towed by a cable secured to the emergency towing eyelet.**

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.

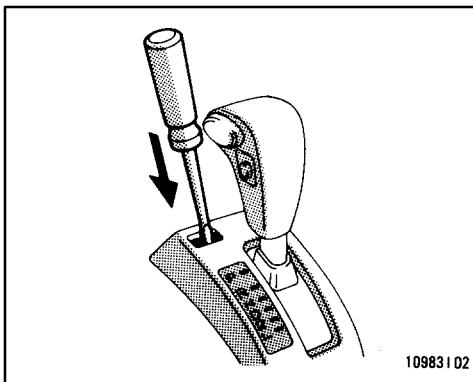
Before towing, check that the center differential is unlocked (The indicator light must be off with the ignition on.) Release the parking brake and put the transmission in "N". The key must be in "ACC" (engine off) or "ON" (engine running).

## If you cannot shift automatic transmission selector lever



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 on.
2. Pry up the cover with a flat-bladed screw-driver or equivalent.



3. Insert the screwdriver or equivalent 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 lose your keys

Many Toyota dealers can make a new key if you can give them the key number.

See the suggestion given in "Keys" in Chapter 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.

# Part 6

## VEHICLE MAINTENANCE AND CARE

- Maintenance requirements
- General maintenance
- Does your vehicle need repairing?

For scheduled maintenance information, please refer to the separate “Owner’s Manual Supplement/Maintenance Schedule”.

### 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, 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 Guide, Owner’s Manual Supplement or Warranty Booklet 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 ensure 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 “Owner’s Manual Supplement/Maintenance Schedule” are those required to be serviced at regular intervals.

For details of your maintenance schedule, read the separate “Owner’s Manual Supplement/Maintenance Schedule”.

**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 Guide, Owner’s Manual Supplement or Warranty Booklet 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.

## General maintenance

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 Part 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 Guide, Owner's Manual Supplement or Warranty Booklet for the details.

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.



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 Chapter 7-2 for additional information.

### Tire surface and wheel nuts

Check the tires carefully for cuts, damage or excessive wear. See Chapter 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 every 12000 km (7500 miles). See Chapter 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 back door 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**

Be alert for changes in steering condition, such as hard steering or strange noise.

## **Seats**

Check that all 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. For folding-down rear seatbacks, swing-up rear seat cushions and detachable third seats, check that the latches lock securely.

## **Seat belts**

Check that the seat belt system such as buckles, retractors and anchors operate properly and smoothly. Make sure that the belt webbing is not cut, frayed, worn or damaged.

## **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 lever 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 Chapter 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 Chapter 7-2 for additional information.

## **Battery electrolyte level**

Make sure the electrolyte level of all battery cells is between upper and lower level lines on the case. Add only distilled water when replenishing. See Chapter 7-3 for additional information.

## **Brake fluid level**

Make sure the brake fluid level is correct. See Chapter 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 Chapter 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 Chapter 7-2 for additional information.

## Does your vehicle need repairing?

### 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 Part 2.)

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 or clutch pedal; pedal almost touches floor; vehicle pulls to one side when braking
- Engine coolant temperature continually higher than normal

- Engine continually runs hot; oil pressure gauge stays low

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.**

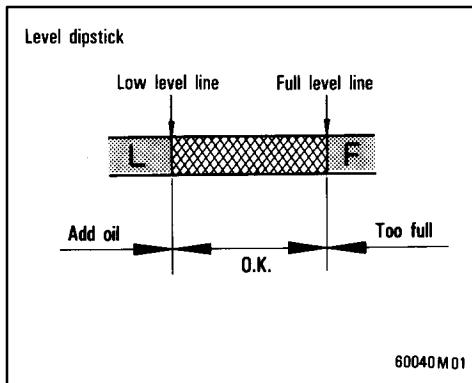
# Part 7

## DO-IT-YOURSELF MAINTENANCE—

### Chapter 7-2 Engine and Chassis

- Checking the engine oil level
- Checking the engine coolant level
- Checking brake fluid
- Checking power steering fluid
- Checking tire pressure
- Checking and replacing tires
- Rotating tires
- Installing snow tires and chains
- Replacing wheels
- Aluminum wheel precautions

#### 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 out the dipstick, and wipe it clean with a rag.
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 on the end.

**If the oil level is below or only slightly above the low level line, 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.

The approximate quantity of oil needed to fill between the low level line and the full level 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)

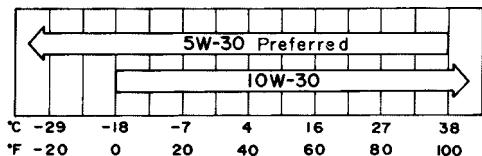
#### **NOTICE**

- ◆ **Avoid overfilling, or the engine could be damaged.**
- ◆ **Check the oil level on the dipstick once again after adding the oil.**

## ENGINE OIL SELECTION

Use API SH, "Energy-Conserving II" multigrade engine oil or ILSAC multigrade engine oil.

Recommended viscosity (SAE):

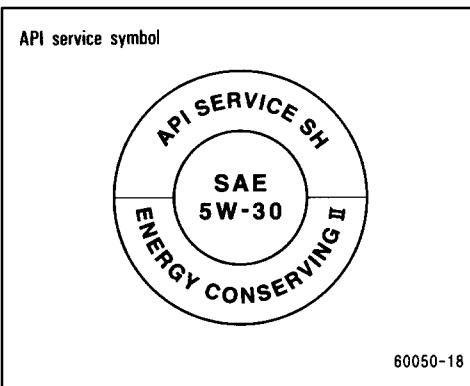


Temperature range anticipated before next oil change

60040-L03U

**SAE 5W-30 is the best choice for your vehicle, for good fuel economy and good starting in cold weather.**

**If you use SAE 10W-30 engine oil in extremely low temperatures, the engine may become difficult to start, so SAE 5W-30 engine oil is recommended.**



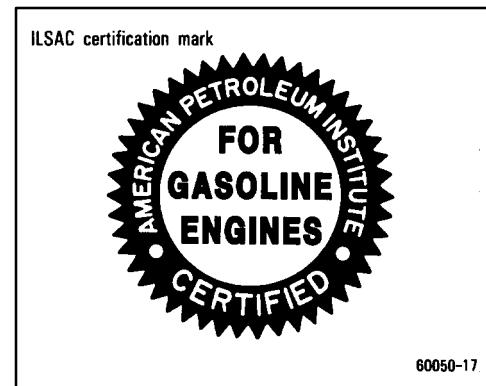
60050-18

### 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 SH. The center portion of the label shows the SAE viscosity grade such as SAE 5W-30. "Energy-Conserving II" shown in the lower portion, indicates that the oil has fuel-saving capabilities. Oils marked "Energy-Conserving II" will have higher fuel-saving capabilities than oil marked "Energy-Conserving".



60050-17

The ILSAC (International Lubricant Standardization and Approval Committee) Certification Mark is displayed on the front of the container.

## 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.

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.

Use only ethylene-glycol type coolant. 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

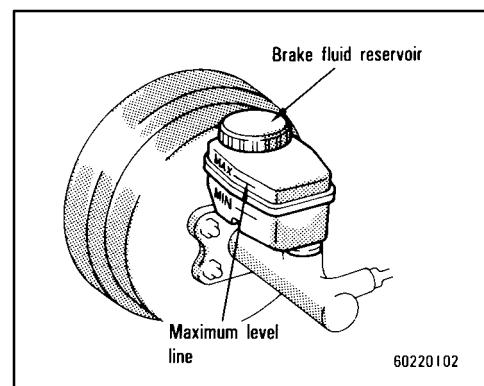
Your coolant must contain ethylene-glycol antifreeze. In addition to preventing freezing and subsequent damage to the engine, this will also prevent corrosion. Further supplemental inhibitors or additives are neither needed nor recommended.

Read the antifreeze container for information on freeze protection. Follow the manufacturer's directions for how much to mix with water. The total capacity of the cooling system is given in Part 8. We recommend 50% solution be used for your Toyota, or a sufficient quantity to provide protection to about -35°C (-31°F).

### NOTICE

*Do not use alcohol type antifreeze or plain water alone.*

## Checking brake fluid



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 cover by hand. Fill the brake fluid to the dotted line. This brings the fluid to the correct level when you put the cover 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.



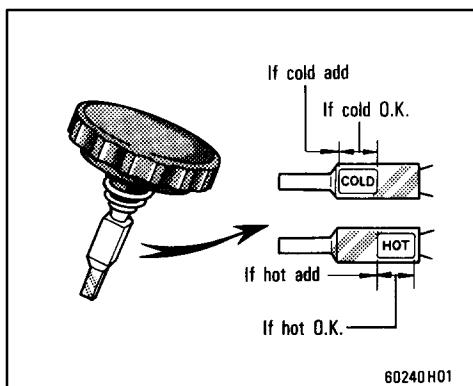
### CAUTION

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.

### NOTICE

If you spill the fluid, be sure to wash it off with water to prevent it from damaging the parts or painting.

## Checking power steering fluid



Check the fluid level on the dipstick. 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.

- a. Clean all dirt from outside of the reservoir tank.
- b. Remove the filler cap by turning it counterclockwise and wipe the dipstick clean.

c. Reinstall the filler cap.

d. Remove the filler cap again 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 range.

e. After replacing the filler 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 are given in Part 8.

You should check the tire pressures every two weeks, or at least once a month. And don't forget the spare!

### Incorrect tire pressure can reduce tire life and make your vehicle less safe to drive.

Low tire pressure results in excessive wear, poor handling, reduced fuel economy, and the possibility of blowouts from overheated tires. Also, low tire pressure can cause poor sealing of the tread bead. If the tire pressure is excessively low, there is the possibility of wheel deformation and/or tire separation.

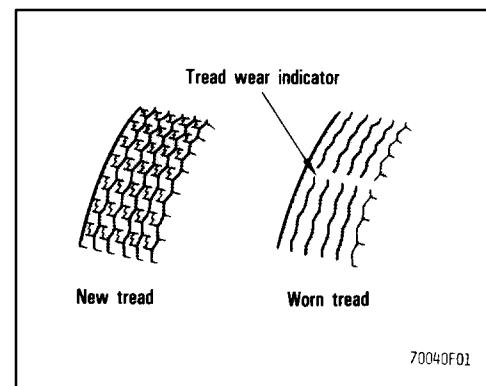
High tire pressure produces a harsh ride, handling problems, excessive wear at the center of the tire tread, and a greater possibility of tire damage from road hazards. If a tire frequently needs refilling, have it checked by your Toyota dealer.

**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 handling and ride.
- **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 six 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.



Toyota recommends all four tires, or at least both of the front or rear tires be replaced at a time as a set.

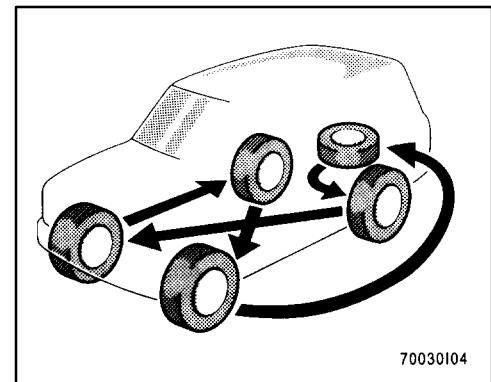
See "If you have a flat tire" in Part 4 for tire change procedure.

**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



70030104

To equalize tire wear and help extend tire life, Toyota recommends that you rotate your tires approximately every 5000 km (3000 miles). 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 Part 4 for tire change procedure.

When rotating tires, check for even 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.

### SNOW TIRE INSTALLATION

Snow tires should be installed on all wheels.

Installing snow tires on the rear 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 105 km/h (65 mph) with any type of snow tires.



#### 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.

### TIRE CHAIN SELECTION

Use the tire chains of correct size.

Regulations regarding the use of tire chains vary according to location or type of road, so always check them before installing chains.

### CHAIN INSTALLATION

Install the chains on the rear wheels. Install the chains as tightly as possible. 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.

## 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 they may 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.

## Aluminum wheel precautions

- After driving your vehicle the first 1600 km (1000 miles), check that the wheel nuts are tight.
- 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.

# Part 8

## SPECIFICATIONS

- Dimensions and weight
- Engine
- Fuel
- Service specifications
- Tires
- Fuses

### Dimensions and weight

Overall length	mm (in.)	4820(189.8)
Overall width	mm (in.)	1930 ( 76.0)
Overall height	mm (in.)	1860 ( 73.2) <sup>*1</sup>
	mm (in.)	1870 ( 73.6) <sup>*2</sup>
Wheelbase	mm (in.)	2850(112.2)
Front tread	mm (in.)	1595 ( 62.8)
Rear tread	mm (in.)	1600 ( 63.0)
Vehicle capacity weight (occupants + luggage)	kg (lb.)	408 ( 900)
		524 (1155) <sup>*3</sup>

### Engine

Model:  
1FZ-FE

Type:  
6 cylinder in line, 4 cycle, gasoline  
Bore and stroke, mm (in.):  
100.0 X 95.0 (3.94 x 3.74)  
Displacement, cm<sup>3</sup> (cu. in.):  
4477 (273.1)

<sup>\*1</sup>: Unladen vehicle plus two occupants

<sup>\*2</sup>: Unladen vehicle

<sup>\*3</sup>: With third seats

## Fuel

### Fuel type:

Unleaded gasoline, Research Octane Number 91 (Octane Rating 87) or higher

### Fuel tank capacity, L (gal., Imp. gal.):

95 (25.1, 20.9)

## 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:

NIPPONDENSO	K16R-U
NGK	BKR5EYA

#### Spark plug gap, mm (in.):

0.8 (0.031)

Drive belt tension measured with Borrroughs drive belt tension gauge No. BT-33-73F (used belt), lbf:

$80 \pm 20$

### ENGINE LUBRICATION

#### Oil capacity (drain and refill),

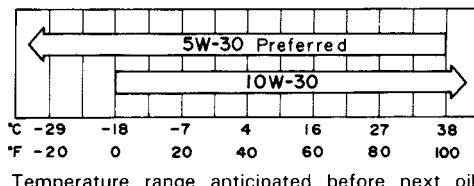
L (qt., Imp. qt.)

With filter	7.4 (7.8, 6.5)
Without filter	6.9 (7.3, 6.1)

#### Oil grade:

API SH, "Energy-Conserving II" multigrade engine oil or ILSAC multigrade engine oil is recommended.

#### Recommended oil viscosity (SAE):



Temperature range anticipated before next oil change

80040-L03U

### COOLING SYSTEM

#### Total capacity, L (qt., Imp. qt.):

With front heater

12.5 (13.2, 11.0)

With front and rear heater

13.4 (14.2, 11.8)

#### Coolant type:

With ethylene-glycol antifreeze  
(Do not use alcohol type.)

### BATTERY

—Maintenance type battery

Specific gravity reading at 20°C (68°F):

1.280 Fully charged

1.180 Half charged

1.080 Discharged

—Non-maintenance battery

Open voltage\* at 20 °C (68 °F):

12.7 V Fully charged

12.3 V Half charged

11.9 V Discharged

\*: Voltage that is checked 20 minutes after the key is removed with all the lights turned off

Charging rates:

Non-maintenance battery 5 A max.

Maintenance type battery

Quick charge 15 A max.

Slow charge 5 A max.

## TRANSFER

Oil capacity, L (qt., Imp. qt.):

1.7 (1.8, 1.4)

Oil type:

Multipurpose gear oil API GL-4 or GL-5

Recommended oil viscosity:

SAE 75W-90

## AUTOMATIC TRANSMISSION

Fluid capacity (drain and refill),

L (qt., Imp. qt.):

Up to 1.9 (2.0, 1.7)

Fluid type:

Automatic transmission fluid D-II or DEXRON®III (DEXRON®II)

## DIFFERENTIAL

Oil capacity, L (qt., Imp. qt.):

Front

With front and rear differential lock system 2.65 (2.8, 2.3)

Without front and rear differential lock system 2.80 (3.0, 2.5)

Rear

3.25 (3.4, 2.9)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

Above—18°C (0°F)

SAE 90

Below—18°C (0°F)

SAE 80W or 80W-90

## CHASSIS LUBRICATION

Wheel bearings:

Lithium base wheel bearing grease, NLGI No. 2

Steering knuckles:

Molybdenum-disulfide lithium base chassis grease, NLGI No. 2

Propeller shafts:

Lithium base wheel bearing grease, NLGI No. 2

## BRAKES

Minimum pedal clearance when depressed with the pressure of 490 N (50 kgf, 110 lbf) with the engine running, mm (in.):

68 (2.7)

Pedal freeplay, mm (in.):

3—6 (0.12—0.24)

Pad wear limit, mm (in.):

4.0 (0.16)

Lining wear limit, mm (in.):

1.5 (0.06)

Parking brake adjustment when pulled with the force of 196 N (20 kgf, 44 lbf):

7—9 clicks

Fluid type:

SAE J1703 or FMVSS No. 116 DOT 3

## STEERING

Wheel freeplay:

Less than 40 mm (1.6 in.)

Power steering fluid type:

Automatic transmission fluid DEXRON®II or III

## Tires

### Tire size:

P275/70R16 114H

### Tire pressure, kPa (kgf/cm<sup>2</sup> or bar, psi):

Normal driving

Front 220 (2.2, 32)

Rear 220 (2.2, 32)

Trailer towing

Front 220 (2.2, 32)

Rear 240 (2.4, 35)

### Wheel size:

16 x 8JJ

### Wheel nut torque, N·m (kgf·m, ft·lbf):

Steel wheels

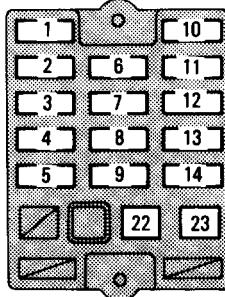
147 (15, 108)

Aluminum wheels

103 (10.5, 76)

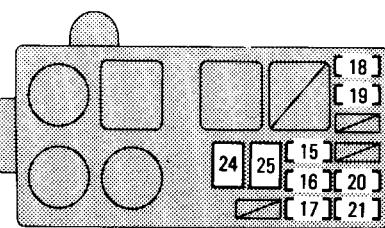
## Fuses

Instrument panel



80050101

Engine compartment



80050109

### Fuses (type A)

- CIG 15 A:** Cigarette lighter, power rear view mirrors, digital clock display, radio, cassette tape player, power antenna, automatic transmission shift lock system, SRS airbag system
- TAIL 15 A:** Tail lights, license plate lights, parking and front side marker lights, instrument panel lights, clock, glovebox light
- OBD 15 A:** On-board diagnosis system
- STOP 10 A:** Stop lights, multiport fuel injection system/sequential multiport fuel injection system, cruise control cancel device, automatic transmission shift lock system
- DEFOG 20 A:** Rear window defogger

**6. WIPER 20 A:** Windshield wipers and washer, rear window wiper and washer

**7. GAUGE 10 A:** Gauges and meters, service reminder indicators and warning buzzers (except discharge and open door warning lights), back-up lights

**8. TURN 7.5 A:** Turn signal lights

**9. ECU-IG 15 A:** Cruise control system

**10. ECU-B 10 A:** SRS airbag system

**11. REAR-HTR 20 A:** Air conditioning system

**12. IGN 7.5 A:** Multiport fuel injection system/sequential multiport fuel injection system, emission control system, SRS airbag system

**13. A.C 10 A:** Air conditioning system

- 14. DIFF 30 A:** Differential lock system
- 15. CHARGE 7.5 A:** Charging system, discharge warning light
- 16. EFI 15 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 17. CDS-FAN 20 A:** No circuit
- 18. HEAD (RH) 15 A:** Right-hand headlights
- 19. HEAD (LH) 15 A:** Left-hand headlights
- 20. HAZ-HORN 15 A:** Emergency flashers, horns
- 21. DOME 10 A:** Interior lights, personal light, luggage compartment light, ignition switch light, open door warning light, clock, radio, cassette tape player, power antenna, vanity lights

#### **Fuses (type B)**

- 22. FL HEATER 40 A:** Air conditioning system
- 23. FL POWER 30 A:** Power windows, power door lock system, electric moon roof.

#### **Fuses (type C)**

- 24. AM 1 50 A:** All components in "CIG", "WIPER", "GAUGE", "TURN", "ECU-IG", "REAR-HTR", "IGN", "DIFF" and "FL POWER" circuits
- 25. ABS 60 A:** Anti-lock brake system



## Part 9

# REPORTING SAFETY DEFECTS FOR U.S. OWNERS AND UNIFORM TIRE QUALITY GRADING

- Reporting safety defects for U.S. owners
- Uniform tire quality grading

## 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 vehicle tires must conform to Federal Safety Requirements in addition to these grades. These quality grades are molded on the sidewall.**

**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 A, B, C**—The traction grades, from highest to lowest, are 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 specific 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 grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.