

SECTION 1 - 1

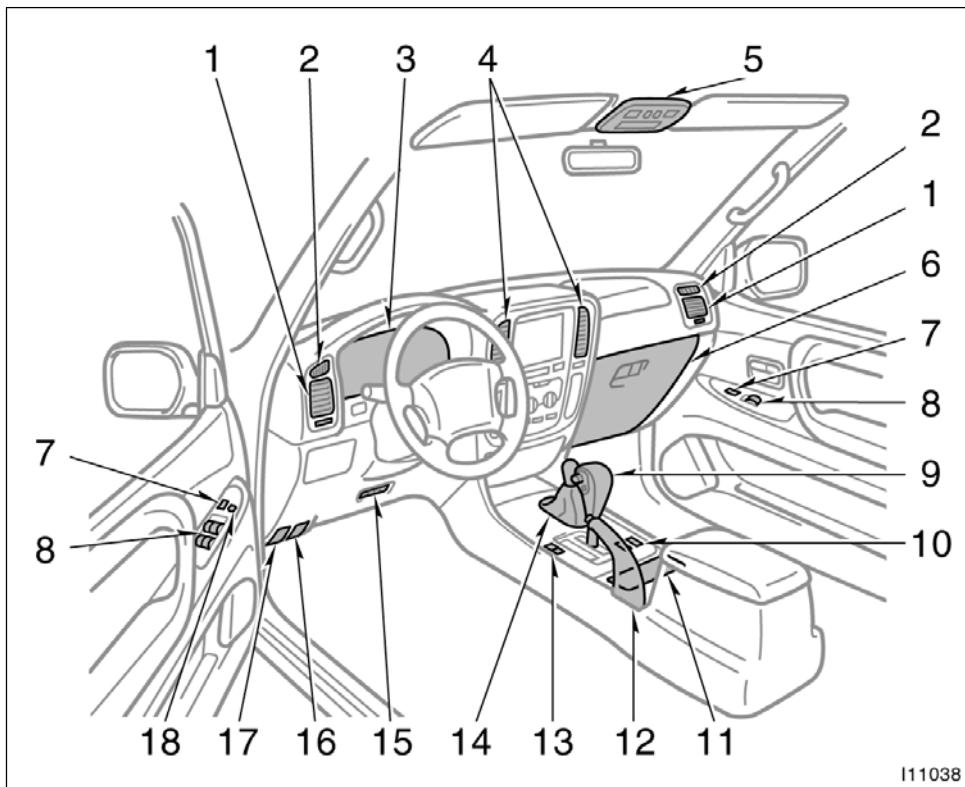
OPERATION OF INSTRUMENTS AND CONTROLS

Overview of instruments and controls

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Instrument panel overview

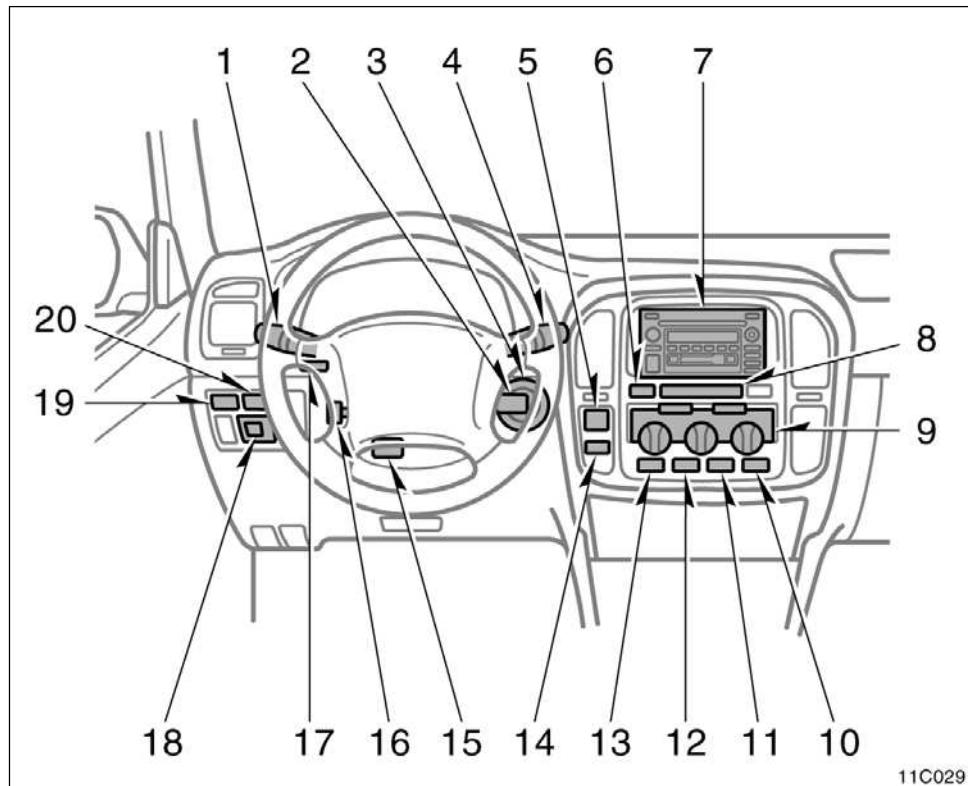
►View A



1. Side vents
2. Side defroster outlets
3. Instrument cluster
4. Center vents
5. Electric moon roof switches and/or personal lights
6. Glove box
7. Power door lock switches
8. Power window switches
9. Automatic transmission selector lever
10. Seat heater switches
11. Cup holder
12. Parking brake lever
13. Second start mode selector button and driving pattern selector button
14. Four-wheel drive control lever
15. Lower vent
16. Hood lock release lever
17. Fuel filler door opener
18. Window lock switch

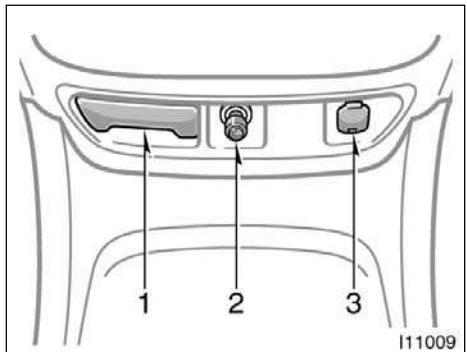
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►View B



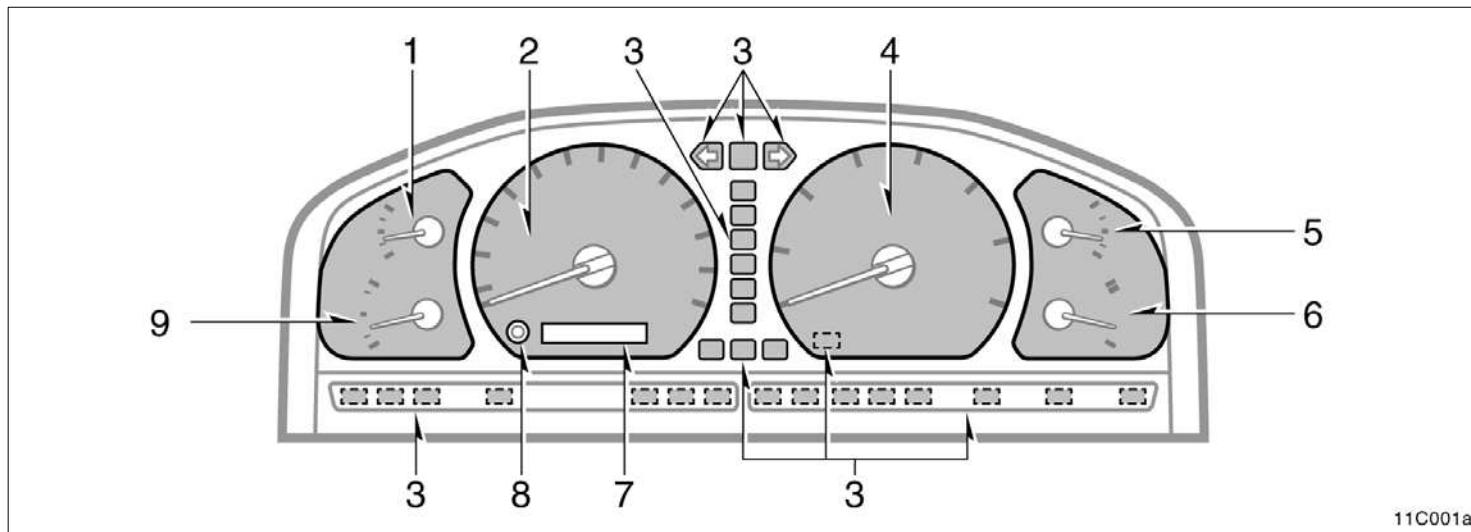
1. Headlight, turn signal and front fog light switches
2. Cruise control switch
3. Ignition switch
4. Wiper and washer switches
5. Emergency flasher switch
6. Power antenna switch
7. Car audio
8. Clock and outside temperature display
9. Air conditioning controls
10. Outside rear view mirror heater switch
11. Rear air conditioning switch
12. Rear heater switch
13. Rear window defogger switch
14. Center differential lock switch
15. Manual tilt steering lock release lever
16. Power tilt and telescopic steering switch
17. Instrument panel light control dial
18. Power rear view mirror control switches
19. Power quarter window switch (left-hand side)
20. Power quarter window switch (right-hand side)

►Lower part of center cluster panel



1. Ashtray
2. Cigarette lighter
3. Power outlet

Instrument cluster overview



1. Voltmeter

2. Speedometer

3. Service reminder indicators and
indicator lights

4. Tachometer

5. Engine oil pressure gauge

6. Engine coolant temperature gauge

7. Odometer and two trip meters

8. Trip meter reset knob

9. Fuel gauge

Indicator symbols on the instrument panel

BRAKE	Brake system warning light*1	A/T P	Unengaged "Park" warning light*1
	Driver's seat belt reminder light*1	A/T OIL TEMP	Automatic transmission fluid temperature warning light*1
	Front passenger's seat belt reminder light*1		Turn signal indicator lights
	Discharge warning light*1		Headlight high beam indicator light
	Malfunction indicator lamp*1	O/D OFF	Overdrive-off indicator light
	Low fuel level warning light*1	ECT PWR	Driving pattern ("POWER" mode) indicator light
	SRS warning light*1	2nd STRT	Automatic transmission second start indicator light
ABS	Anti-lock brake system warning light*1		Center differential lock indicator light
	Open door warning light*1	CRUISE	Cruise control indicator light*2

PRN	Automatic transmission indicator lights
VSC OFF	Vehicle skid control system off indicator light ^{*1}
VSC TRAC	Vehicle skid control system and active traction control system warning light ^{*1}
TRAC	Active traction control system indicator light
	Slip indicator light

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

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

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SECTION 1 - 3

OPERATION OF INSTRUMENTS AND CONTROLS

Seats, Seat belts, Steering wheel and Mirrors

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Seats

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

CAUTION

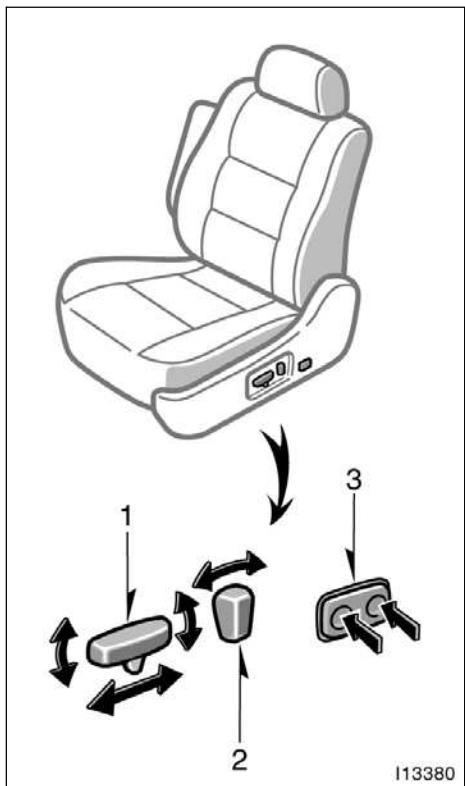
- Do not drive the vehicle unless the occupants are properly seated. Do not allow sitting on top of a folded-down seatback, or in the luggage compartment or cargo area. Persons not properly seated and/or not properly restrained by seat belts can be severely injured in the event of emergency braking or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

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. The objects may interfere with the seat-lock mechanism or unexpectedly push up the seat position adjusting lever. Otherwise, the seat may suddenly move, causing the driver to lose control of the vehicle.

- While adjusting the seat, do not put your hands under the seat or near the moving parts. Otherwise, you may catch and injure your hands or fingers.

—Adjusting front seats



1. SEAT POSITION AND SEAT CUSHION ANGLE ADJUSTING SWITCH

Move the control switch in the desired direction.

Releasing the switch will stop the seat at that position.

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

2. SEATBACK ANGLE ADJUSTING SWITCH

Move the control switch in the desired direction.

Releasing the switch will stop the seatback at that position.

CAUTION

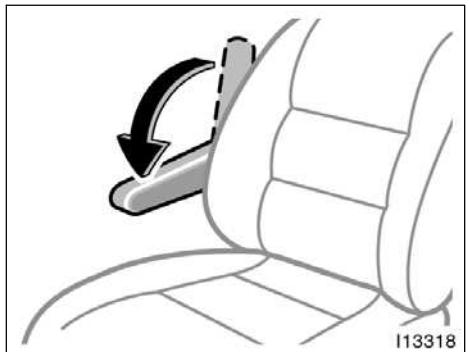
To reduce the risk of sliding under the lap belt during a collision, avoid reclining the seatback any more than needed. The seat belts provide maximum protection in a frontal or rear collision when the driver and the passenger are sitting up straight and well back in the seats. If you are reclined, the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

3. SEAT LUMBAR SUPPORT ADJUSTING SWITCH

Push the control switch on either side.

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

Armrest



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

NOTICE

To prevent damage to the armrest, avoid putting heavy loads on it.

Rear seats— —Rear seat precautions

CAUTION

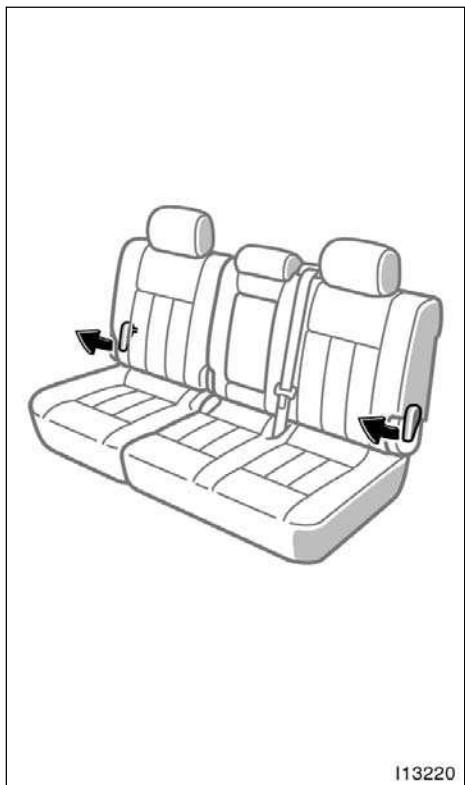
- Any operations should not be made while the vehicle is moving.
- When adjusting the seat, be careful not to hit the seat against a passenger or luggage.
- After adjusting the seatback, push back your body to make sure it is locked in position.
- When returning seats to their original position, observe the following in order to prevent personal injury in a collision or sudden stop:

Make sure the seat is securely locked by pushing forward and rearward on the top of the seatback and by trying to pull up the edge of the bottom cushion. Failure to do so will prevent seat belt from operating properly.

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

Folding the seats up will enlarge the luggage compartment. See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

—Adjusting second seats



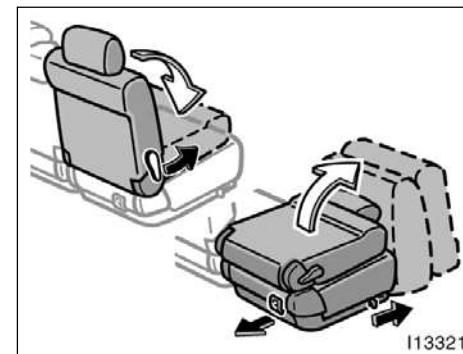
SEATBACK ANGLE ADJUSTING LEVER

Lean forward and pull the lever toward you. 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 in a frontal or rear collision when the passengers 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.
- Adjustments should not be made while the vehicle is moving.
- After adjusting the seatback, push back your body to make sure it is locked in position.

—Moving second seat for third seat entry



For easy access to the third seat, do this;

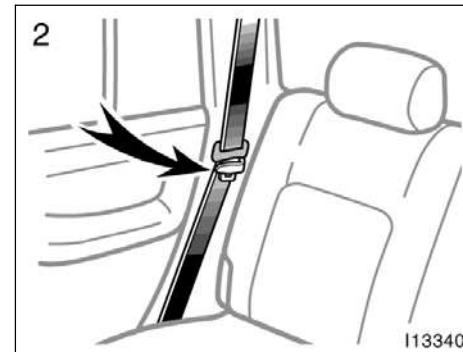
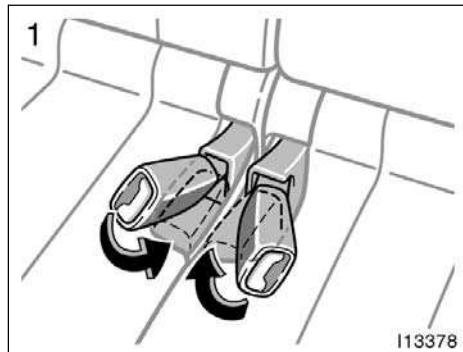
1. Lower the head restraint to the lowest position.
2. Push the seat back angle adjusting lever and pull the seat cushion lock release lever or pull the strap.

After passengers are in, return the seat until it locks.

—Folding up second seat

 CAUTION

After returning the seat, make sure the seat is securely locked by pushing forward and rearward on the top of the seatback and by trying to pull up the edge of the bottom cushion.



BEFORE FOLDING UP SECOND SEAT

1. Stow the second seat belt buckles as shown in the illustration.

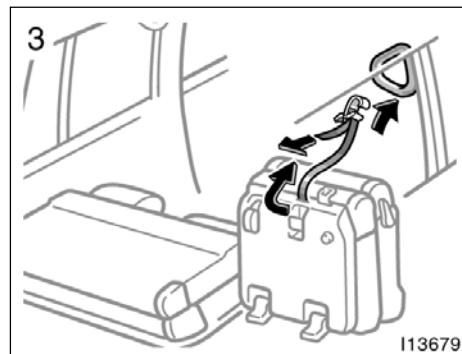
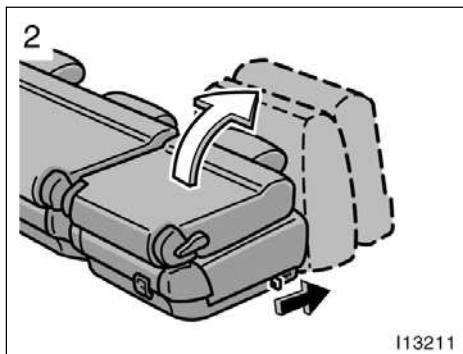
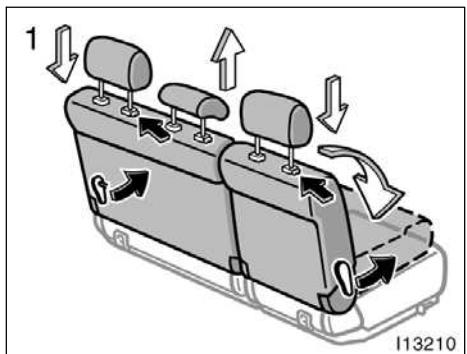
This prevents the seat belt buckles from falling out when you fold up the second seat.

NOTICE

The seat belt buckles must be stowed before you fold up the second seat.

 CAUTION

The seat belt must be removed from the hanger when the seat belt is in use.



FOLDING UP SECOND SEAT

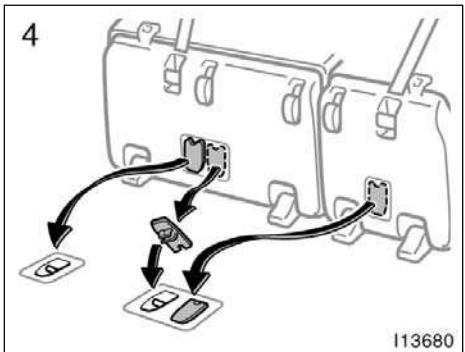
1. Lower the outer head restraint to the lowest position and pull up the center head restraint. Unlock the seat-back and fold it down.

Vehicles without third seats—Folding up the rear seats will enlarge the luggage compartment. See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

2. Unlock the seat cushion. Swing the whole seat up and forward.

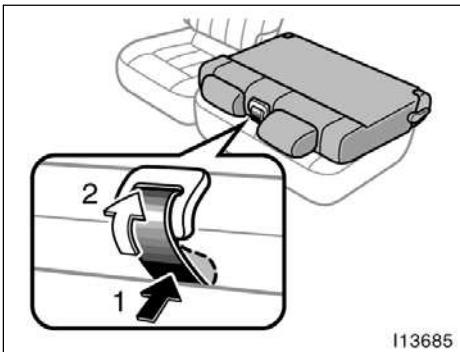
3. Hook the strap.

When returning the second seat to its original position, put the holding strap into the hole.



4. Remove the seat striker covers from the back of the seat cushion, and install them over the seat strikers.

When returning the second seat to its original position, remove the seat striker covers from the floor and install them in the back of the seat cushion.



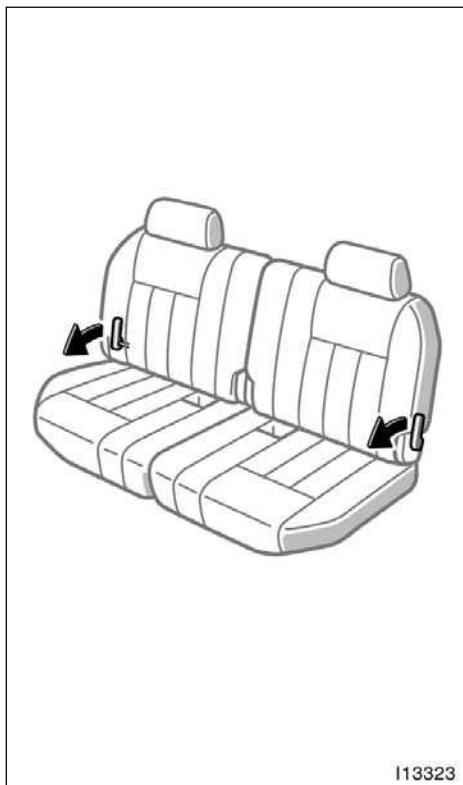
WHEN RETURNING THE SECOND SEAT
If you cannot raise the seatback because of the locked seat belt, do not try it hard. Release the lock of the seat belt in the following way. Push in the lower front edge of the seatback cushion to slacken the seat belt (1) and let the seat belt retract a little (2).

CAUTION

When returning seats to their original position, observe the following precautions in order to prevent personal injury in a collision or sudden stop:

- Make sure the seat is securely locked by pushing forward and rearward on the top of the seatback and by trying to pull up the edge of the bottom cushion. Failure to do so will prevent seat belt from operating properly.
- Make sure the seat belts are not twisted or caught under the seat and are arranged in their proper position and are ready to use.

—Adjusting third seats



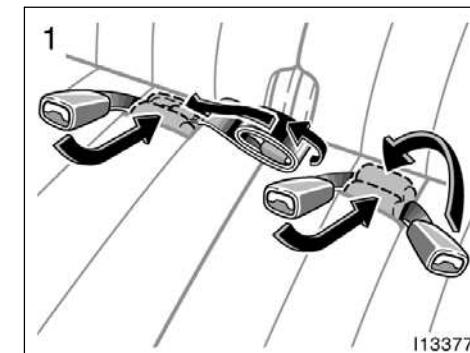
SEATBACK ANGLE ADJUSTING LEVER

Lean forward and pull the lever toward you. 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 in a frontal or rear collision when the passengers 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.
- Adjustments should not be made while the vehicle is moving.
- After adjusting the seatback, exert body pressure to make sure it is locked in position.

—Folding up third seats



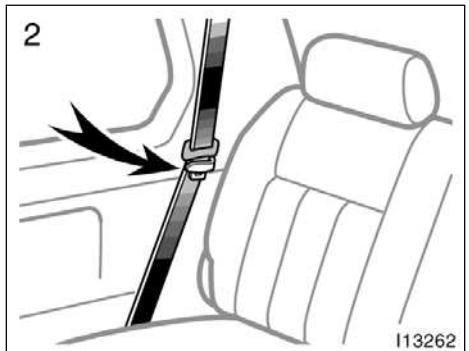
BEFORE FOLDING UP THIRD SEAT

1. Stow the third seat belt and buckles as shown in the illustration.

This prevents the seat belt and buckles from falling out when you fold up the third seat.

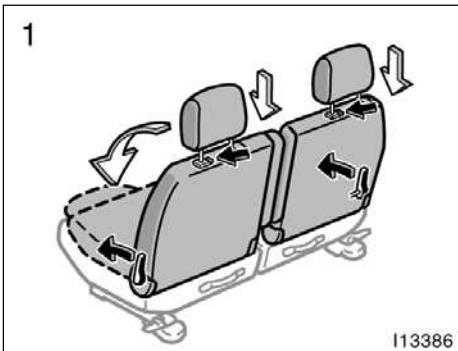
NOTICE

The seat belt and buckles must be stowed before you fold up the third seat.



2. Make sure the shoulder belt passes through the hanger when folding the third seat.

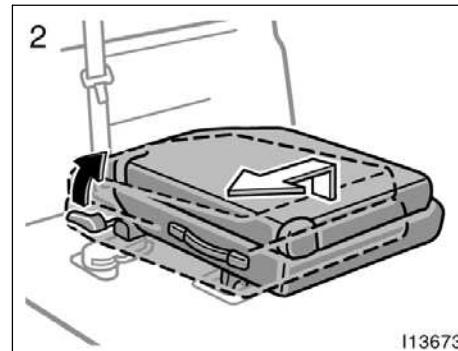
This prevents the shoulder belt from being damaged.



FOLDING UP THIRD SEAT

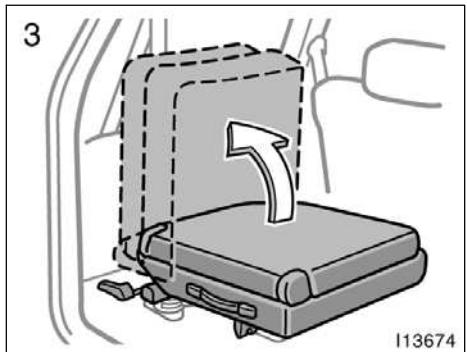
1. Lower the head restraint to the lowest position. Unlock the seatback and fold it down.

Folding up the third seats will enlarge the luggage compartment. See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

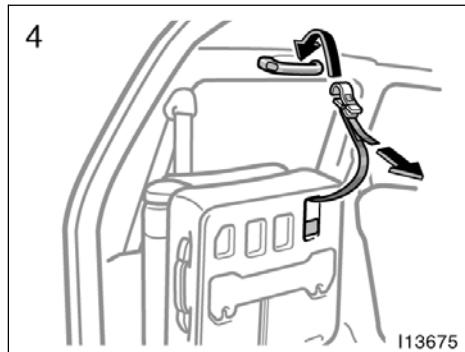


2. Unlock the seat cushion and slide the whole seat to the rear-most position while pulling up the handle.

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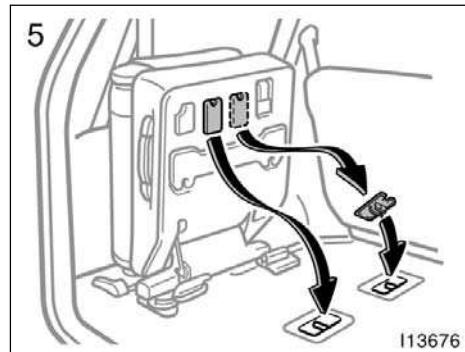


3. Swing the whole seat up.



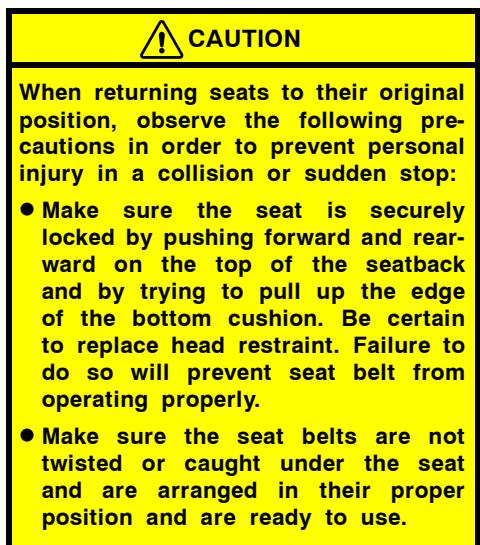
4. Hook the strap.

When returning the third seat to its original position, put the holding strap into the hole.

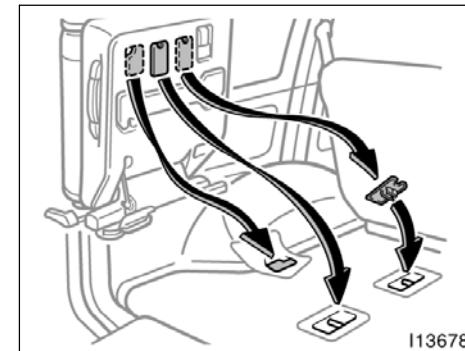
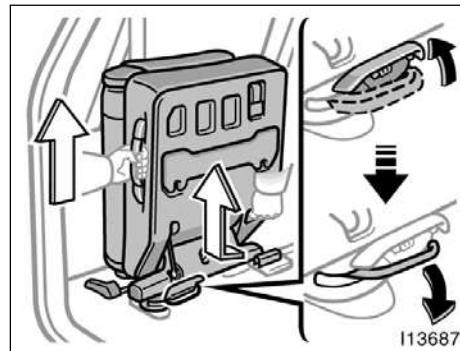


5. Remove the seat striker covers from the back of the seat cushion, and install them over the seat strikers.

When returning the third seat to its original position, remove the seat striker covers from the floor and install them in the back of the seat cushion.



—Removing third seats

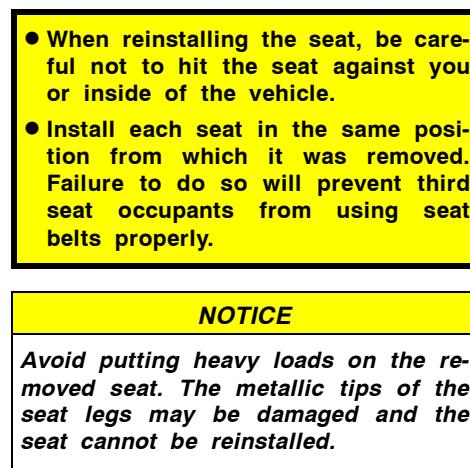
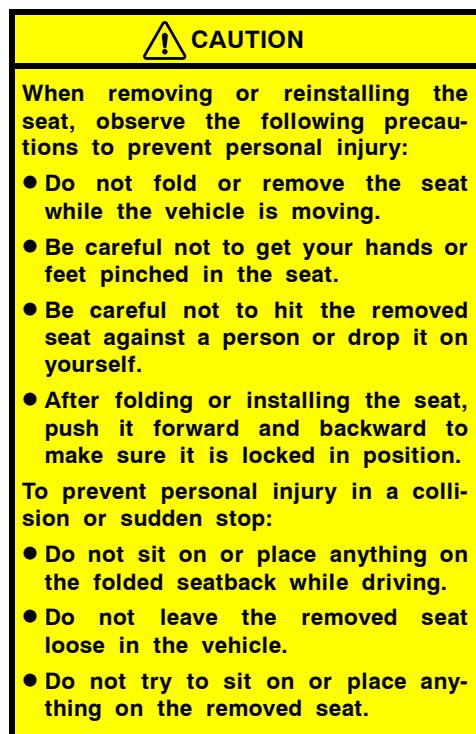


After folding up the third seat, open the cover, hold the whole seat and pull it up while pulling the handle toward you.

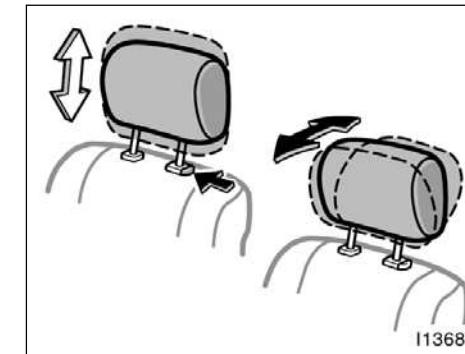
Removing the third seat will enlarge the luggage compartment. See "Luggage stowage precautions" in Section 2 for precautions in loading luggage.

Remove the seat striker covers from the back of the seat cushion, and install them over the seat strikers.

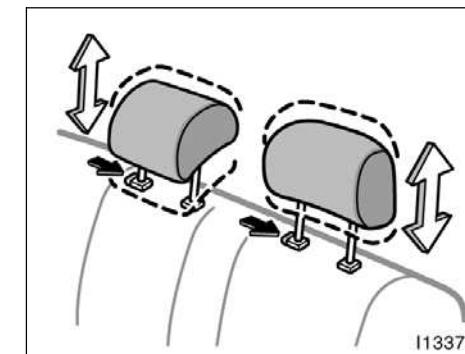
When returning the third seat to its original position, remove the seat striker covers from the floor and install them in the back of the seat cushion.



Head restraints



Front



Rear

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

To raise: Pull it up.

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

Front head restraint only—You can also move the head restraint forward or backward. If such adjustment is desired, pull or push the head restraint.

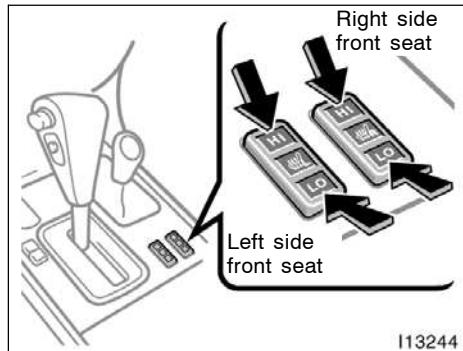
Rear center head restraint—When an occupant sits on the rear center seat, always pull up the rear center head restraint to the lock position.

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

CAUTION

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

Seat heaters



To turn on the seat heater, push the switch to "HI" (high heating temperature) or "LO" (low heating temperature).

The key must be in the "ON" position.

Pushing lightly on the opposite side will turn it off.

CAUTION

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

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

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

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

Seat belts—

—Seat belt precautions

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

Child. Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belts. (For details, see "Child restraint" in this section.)

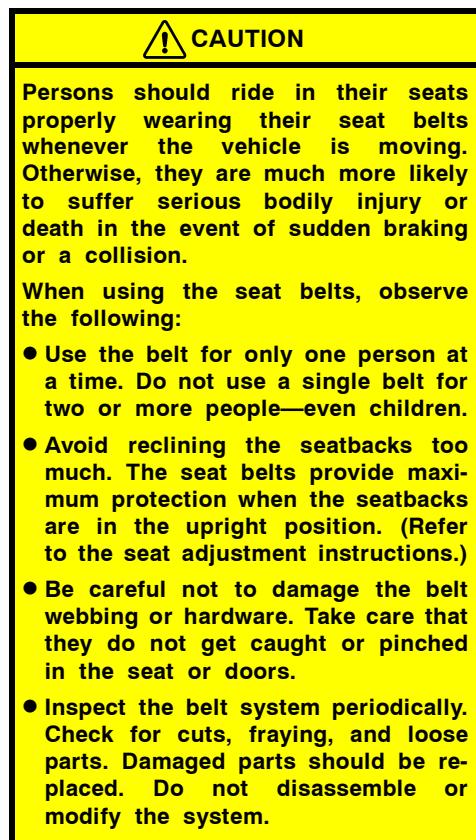
If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

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

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

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

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



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

—3-point seat belts



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

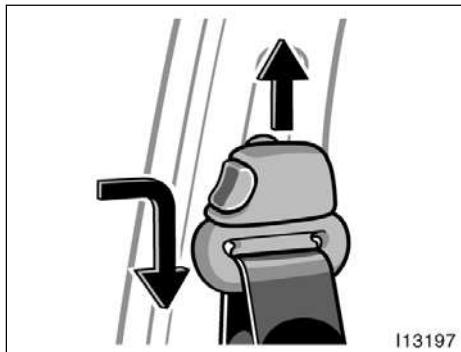
You will hear a click when the tab locks into the buckle.

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

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

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

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



! CAUTION

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

! CAUTION

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

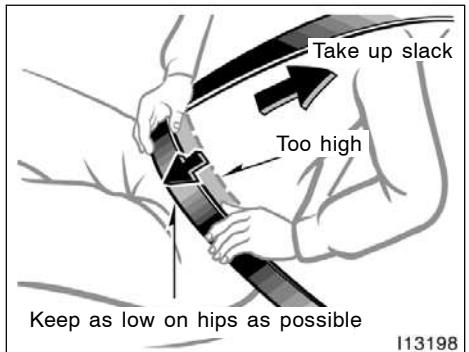
Seat belts with an adjustable shoulder anchor—

Adjust the shoulder anchor position to your size.

To raise: Slide the anchor up.

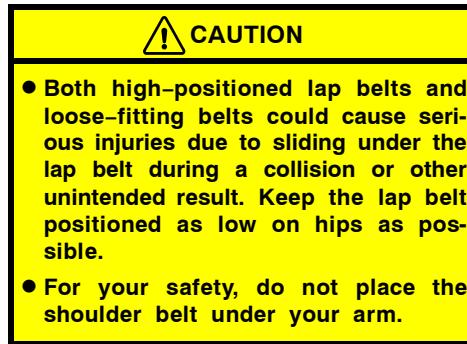
To lower: Push in the lock release button and slide the anchor down.

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



Adjust the position of the lap and shoulder belts.

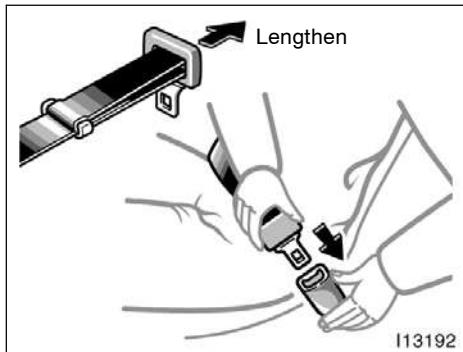
Position the lap belt as low as possible on your hips—not on your waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



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

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

—2-point seat belt



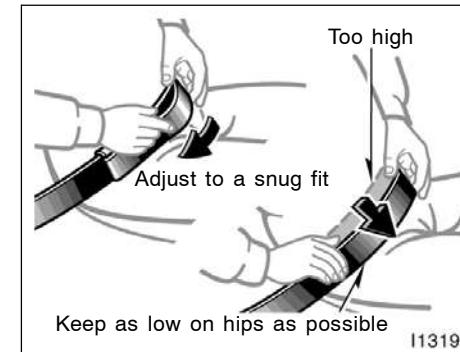
Sit up straight and well back in the seat. To fasten your belt, insert the tab into the buckle.

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

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

CAUTION

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



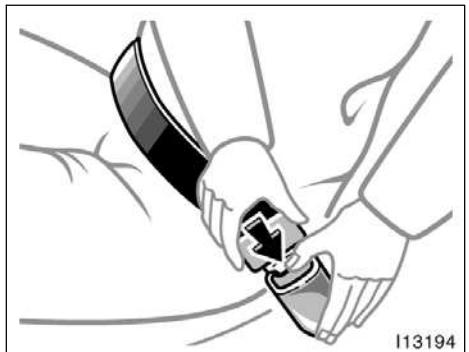
Remove excess length of the belt and adjust the belt position.

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

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

CAUTION

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



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

—Seat belt extender

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

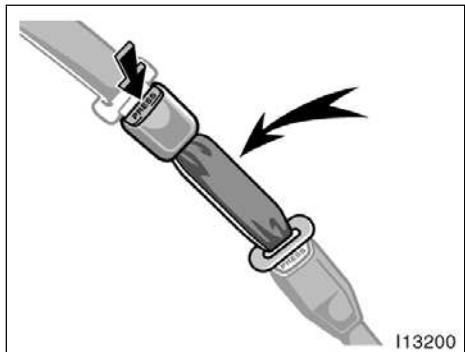
Please contact your local Toyota dealer to order the proper required length for the extender. Bring the heaviest coat you expect to wear for proper measurement and selection of length. Additional ordering information is available at your Toyota dealer.

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

CAUTION

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

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

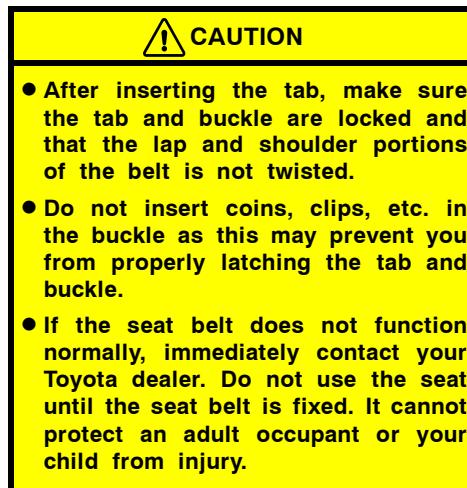


To connect the extender to the seat belt, insert the tab into the seat belt buckle so that the "PRESS" signs on the buckle-release buttons of the extender and the seat belt are both facing outward as shown.

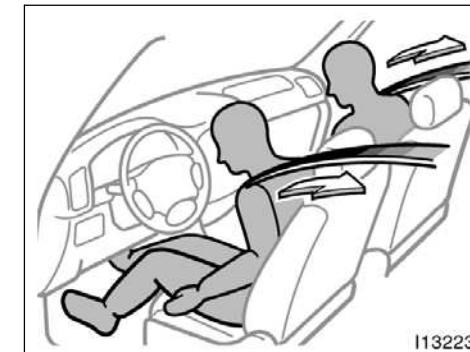
You will hear a click when the tab locks into the buckle.

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

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



—Front seat belt pretensioners

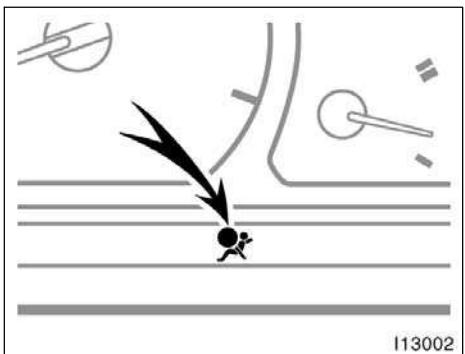


The driver and front passenger's seat belt pretensioners are designed to be activated in response to a severe frontal impact.

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

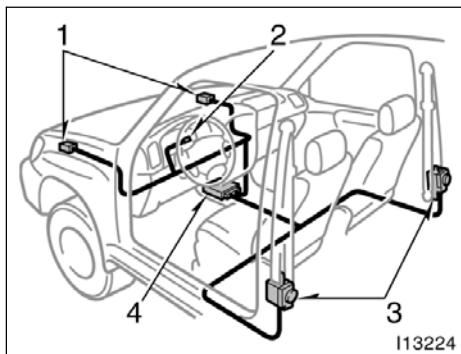
The front seat belt pretensioners are activated even with no passenger in the front seat.

Collisions occurring at certain speeds and angles may cause the seat belt pretensioners and SRS airbags not to operate all together.



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

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



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

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

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

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

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

CAUTION

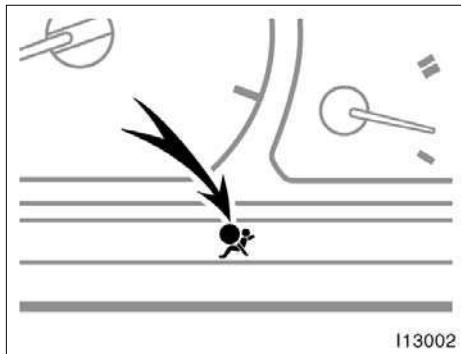
Do not modify, remove, strike or open the front seat belt pretensioner assemblies, airbag sensor or surrounding area or wiring. Doing any of these may cause sudden operation of the front seat belt pretensioners or disable the system, which could result in death or serious injury.

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

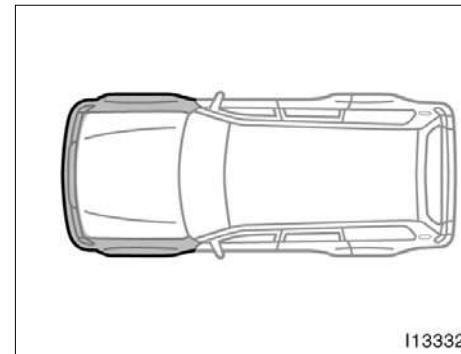
NOTICE

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

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



I13002



I13332

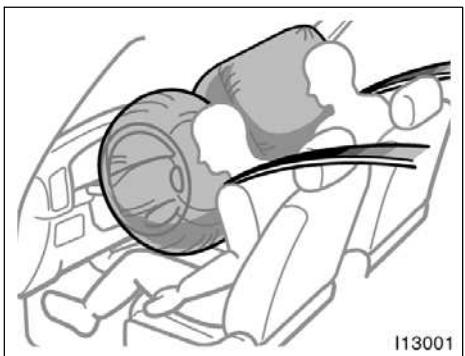
This front seat belt pretensioner system has a service reminder indicator to inform the driver of operating problems. If either of the following conditions occurs, this indicates a malfunction of the airbags or pretensioners. Contact your Toyota dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ACC" or "ON" position, or the light remains on.
- The light comes on or flashes while driving.
- If either front seat belt does not retract or can not be pulled out due to a malfunction or activation of the relevant front seat belt pretensioner.

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

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

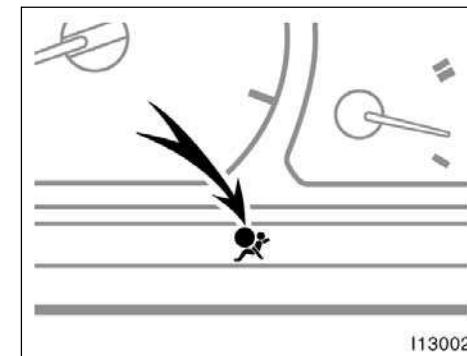
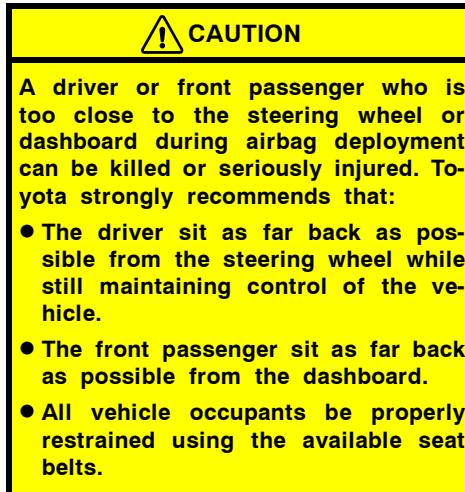
SRS driver and front passenger airbags



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

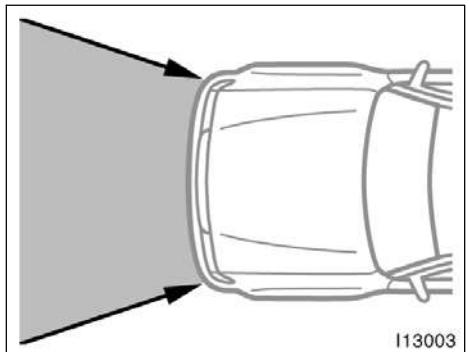
In response to a severe frontal impact, the SRS airbags work together with the seat belts to help reduce injury by inflating. The SRS airbags help to reduce injuries mainly to the driver's or front passenger's head or chest directly hitting the steering wheel or dashboard. The front passenger airbag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

Be sure to wear your seat belt properly.



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

This warning light system monitors the airbag sensor assembly, front airbag sensors, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" in Section 1-5.)



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

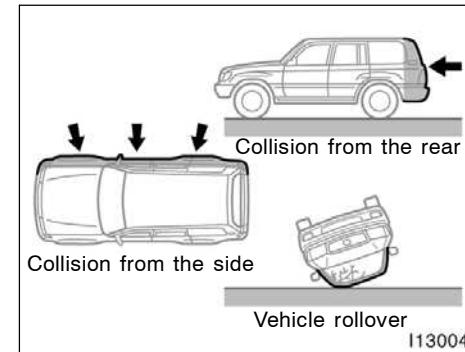
The SRS airbags will deploy if the severity of the impact is above the designed threshold level, comparable to an approximate 25 km/h (15 mph) collision when impacting straight into a fixed barrier that does not move or deform.

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

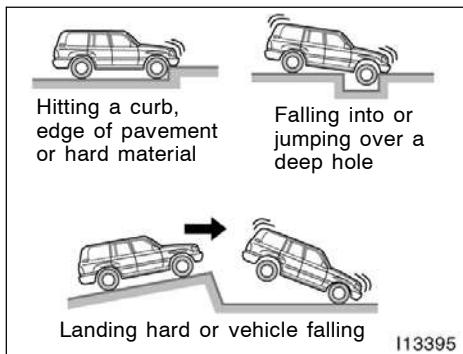
However, this threshold velocity will be considerably higher if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, or if it is involved in an underride collision (e.g. a collision in which the nose of the vehicle "underrides", or goes under, the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

It is possible that in some collisions at the lower zone of airbag sensor detection and activation, the SRS airbags and seat belt pretensioners will not operate all together.

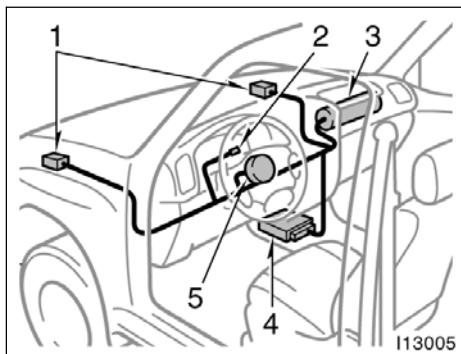
For the safety of all occupants, always wear your seat belts properly.



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



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



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

1. Front airbag sensors
2. SRS warning light
3. Airbag module for front passenger (airbag and inflator)
4. Airbag sensor assembly
5. Airbag module for driver (airbag and inflator)

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

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

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

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

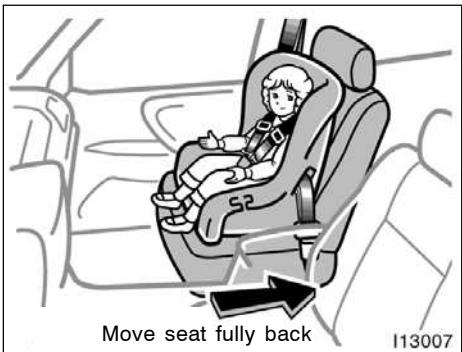
Parts of the airbag module (steering wheel hub, dashboard) may be hot for several minutes, but the airbags themselves will not be hot. The airbags are designed to inflate only once.

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

 CAUTION

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

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



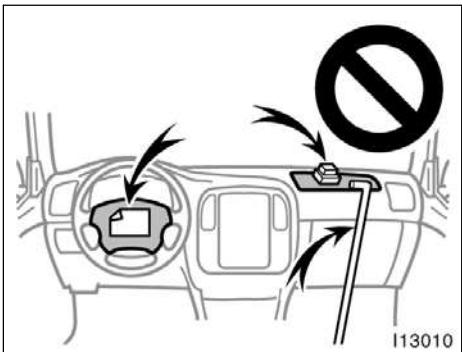
- Never put a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.

- A forward-facing child restraint system should be allowed to be put on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying passenger airbag could cause death or serious injury to the child.
- For instructions concerning the installation of a child restraint system, see "Child restraint" in this section.

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



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



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

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

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

NOTICE

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

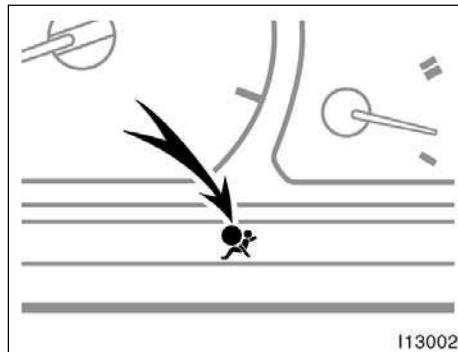
◆ *Installation of electronic devices such as a mobile two-way radio, cassette tape player or compact disc player*

◆ *Modification of the suspension system*

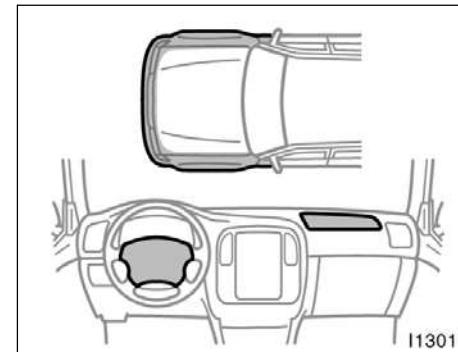
◆ *Modification of the front end structure*

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

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



I13002



I13011

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

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

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

- The SRS airbags have been inflated.
- The front of the vehicle (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS 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.

NOTICE

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

Child restraint—**—Child restraint precautions**

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

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

Your vehicle conforms to SAEJ1819.

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

 **CAUTION**

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

- Toyota strongly urges use of a proper child restraint system which conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never put a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is put on the front seat.
- Unless it is unavoidable, do not put a child restraint system on the front seat.
- A forward-facing child restraint system should be allowed to be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying airbag could cause death or serious injury to the child.

- Make sure you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured.

—Child restraint system

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

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

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

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

CAUTION

- Never put a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is put on the front seat.
- Unless it is unavoidable, do not put a child restraint system on the front seat.
- A forward-facing child restraint system should be allowed to be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of the deploying airbag could cause death or serious injury to the child.
- After installing the child restraint system, make sure it is secured in place following the manufacturer's instructions. If it is not restrained securely, it may cause death or serious injury to the child in the event of a sudden stop or accident.

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

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

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

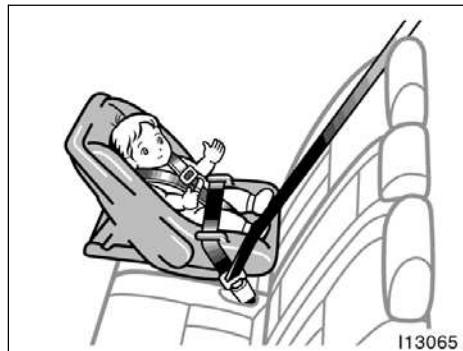
—Types of child restraint system

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

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

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

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



(A) Infant seat

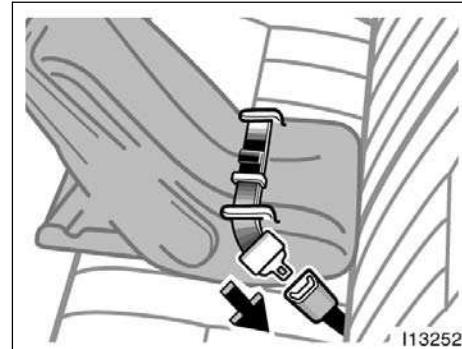
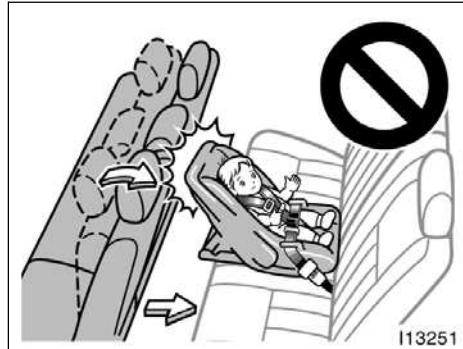
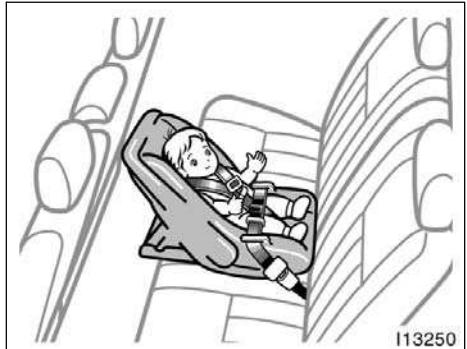


(C) Booster seat



(B) Convertible seat

—Installation with 2-point type seat belt



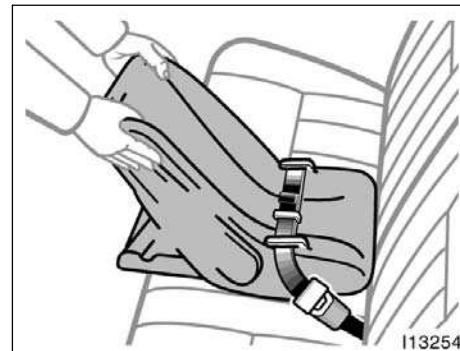
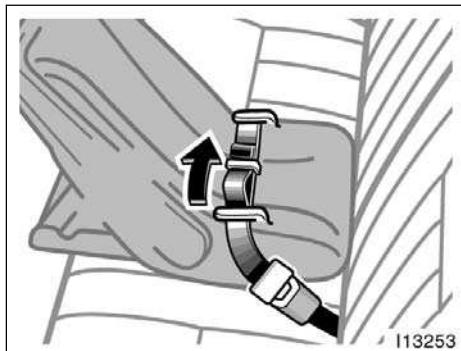
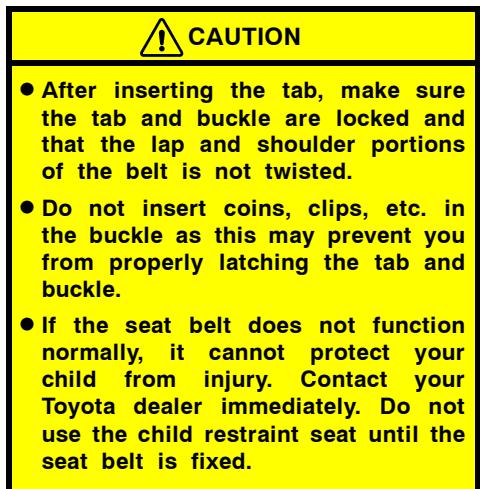
(A) INFANT SEAT INSTALLATION

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

CAUTION

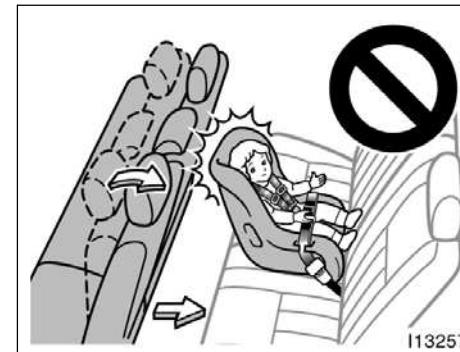
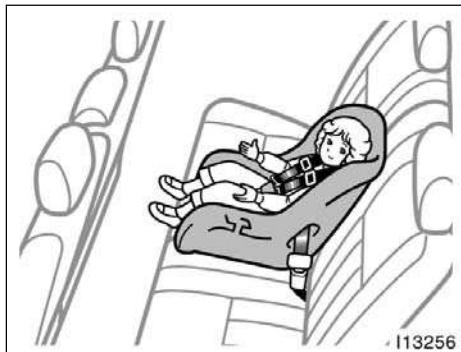
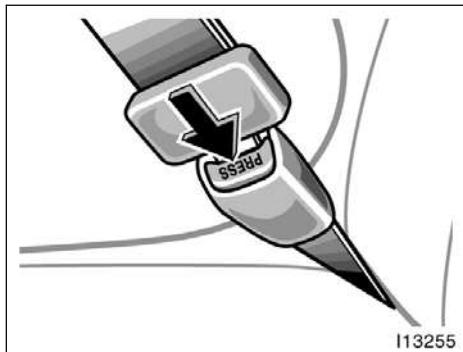
Do not put a rear-facing child restraint system on the third seat if it interferes with the lock mechanism of the second seats. This can cause death or serious injury to the child and passengers sitting in the second seats in case of sudden braking or a collision.

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



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





3. To remove the infant seat, press the buckle-release button.

(B) CONVERTIBLE SEAT INSTALLATION

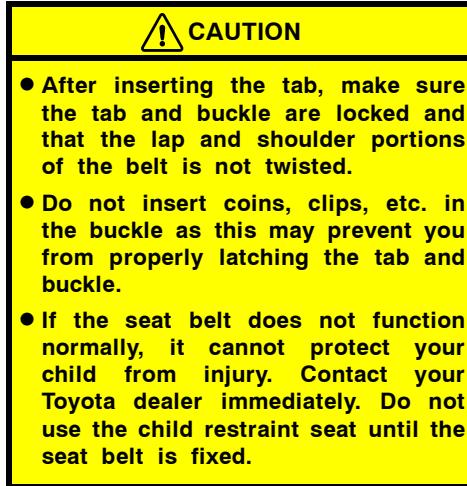
A convertible seat is used in forward-facing or rear-facing position depending on the child's age and size. When installing, follow the manufacturer's instruction about the applicable child's age and size as well as directions for installing the child restraint system.

CAUTION

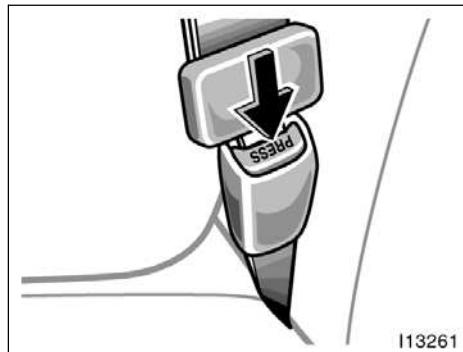
Do not put a rear-facing child restraint system on the third seat if it interferes with the lock mechanism of the second seats. This can cause death or serious injury to the child and passengers sitting second seats in case of sudden braking or a collision.



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



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



—Installation with 3-point type seat belt



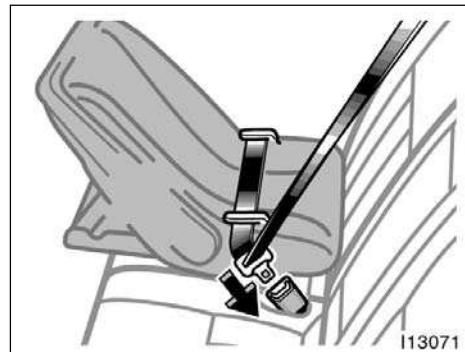
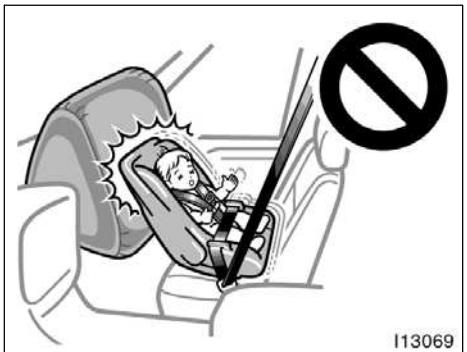
 **CAUTION**

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

3. To remove the convertible seat, press the buckle-release button.

(A) INFANT SEAT INSTALLATION

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

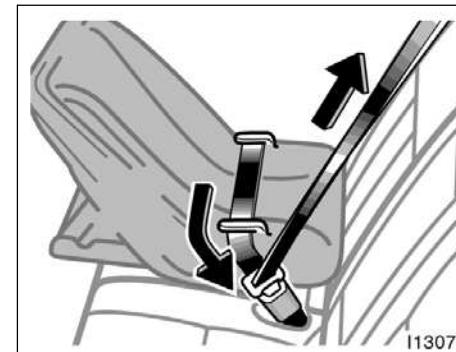
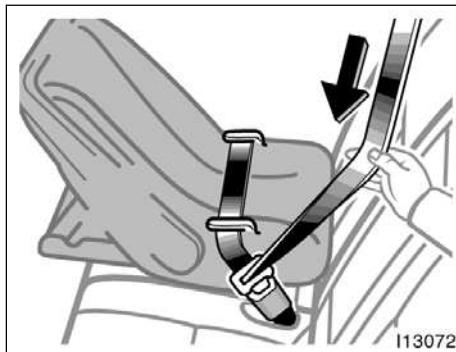
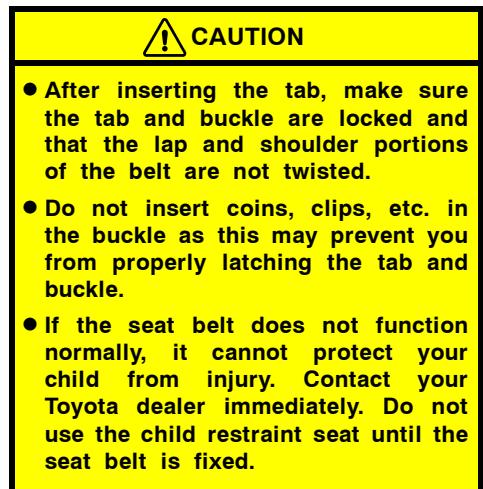


! CAUTION

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

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

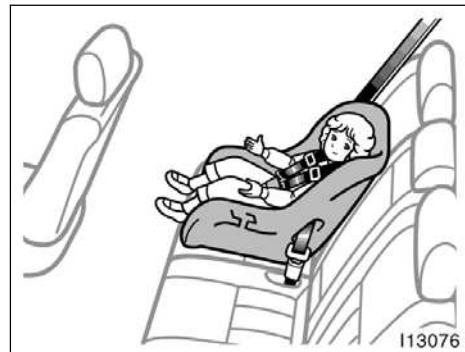
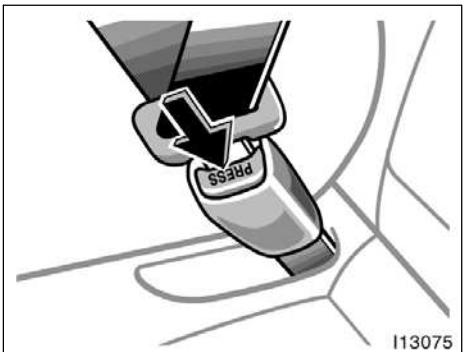
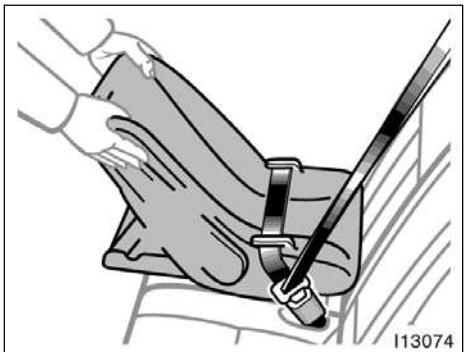
1. Run the lap and shoulder belt through or around the infant seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.



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

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

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



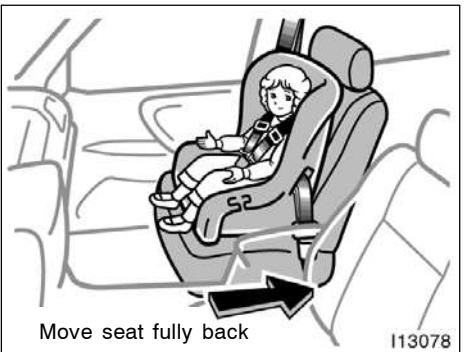
CAUTION

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

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

(B) CONVERTIBLE SEAT INSTALLATION

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



CAUTION

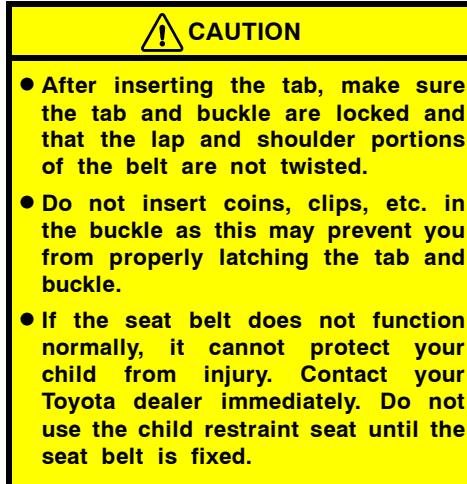
- Never put a rear-facing child restraint system on the front passenger seat because the force of the rapid inflation of the passenger airbag can cause death or serious injury to the child.

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

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



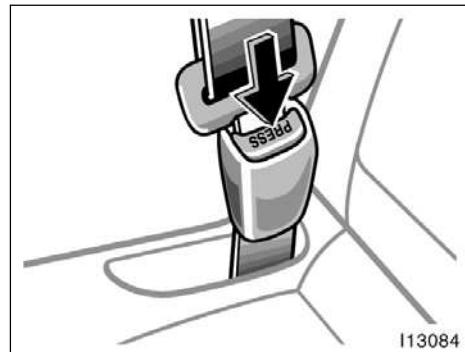
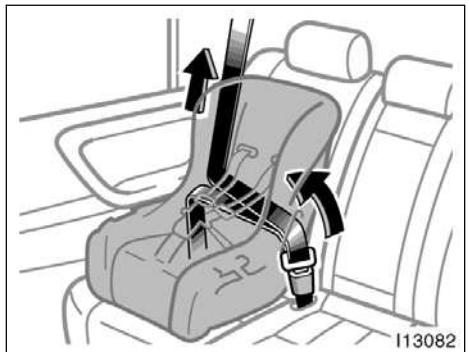
1. Run the lap and shoulder belt through or around the convertible seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.



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

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

'02 L/C U (L/O 0108)

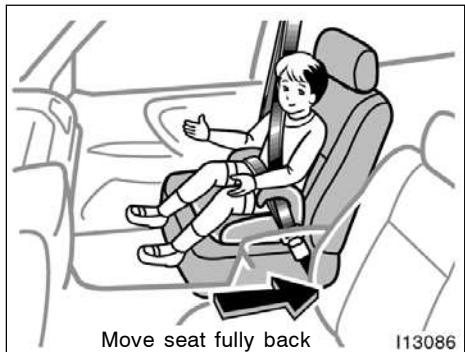
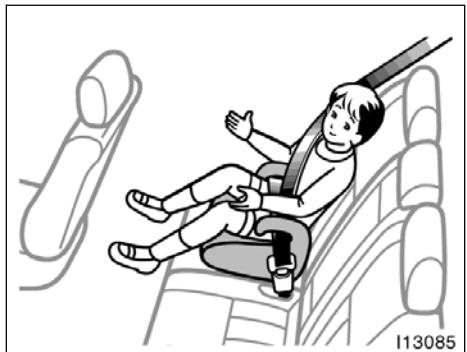


3. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.

CAUTION

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

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



(C) BOOSTER SEAT INSTALLATION

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

CAUTION

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

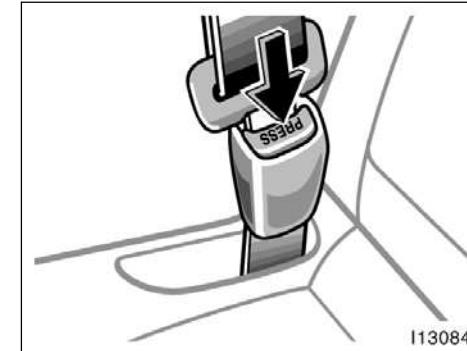
1. Sit the child on a booster seat. Run the lap and shoulder belt through or around the booster seat and child following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt.

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

! CAUTION

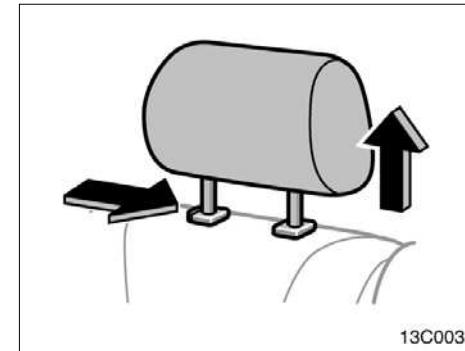
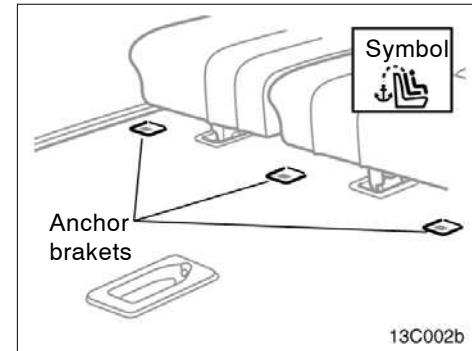
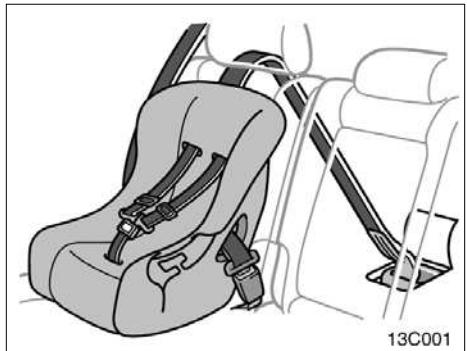
- Always make sure the shoulder belt is positioned across the center of child's shoulder. The belt should be kept away from child's neck, but not falling off child's shoulder. Failure to do so could reduce the amount of protection in an accident and cause serious injuries in a collision.
- Both high-positioned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

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



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

—Using a top strap



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

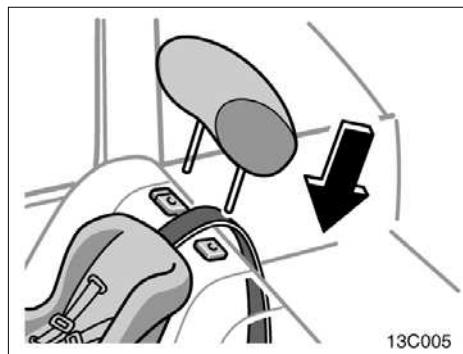
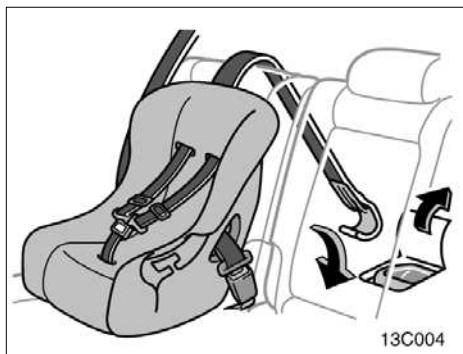
Use the anchor bracket located behind the second seat on the floor to attach the top strap.

Anchor brackets are installed for each second seating position.

This symbol indicates the location of user ready anchor brackets.

TO USE THE ANCHOR BRACKET:

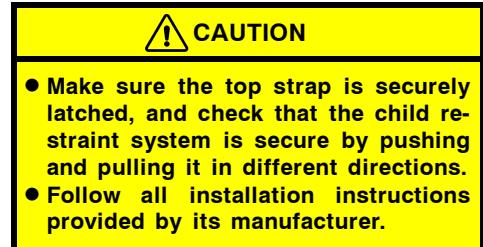
1. Remove the head restraint.



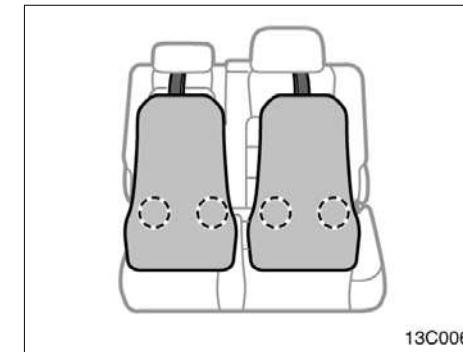
2. Fix the child restraint system with the seat belt.
3. Take off the cover, latch the hook onto the anchor bracket and tighten the top strap.

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

4. Replace the head restraint.



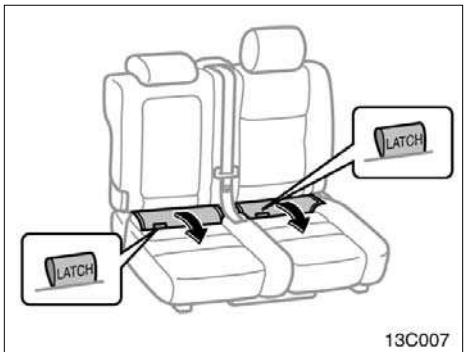
—Installation with child restraint lower anchorages



The lower anchorages for the child restraint system interfaced with the FMVSS225 specification are installed in the second seat.

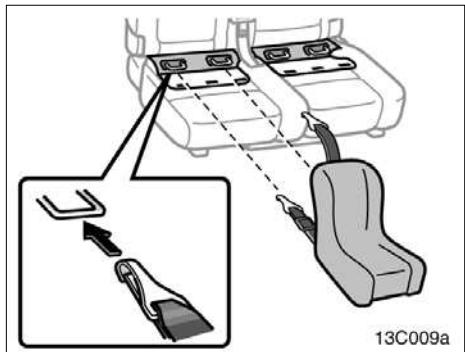
The anchorages are installed in the clearance between the seat cushion and seat-back of left and center second seats.

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



CHILD RESTRAINT SYSTEM INSTALLATION

1. Take off the cover between the seat cushion and seatback a little and confirm the position of the lower anchorages below the tag in the seat cushion.



Type A

Type A—

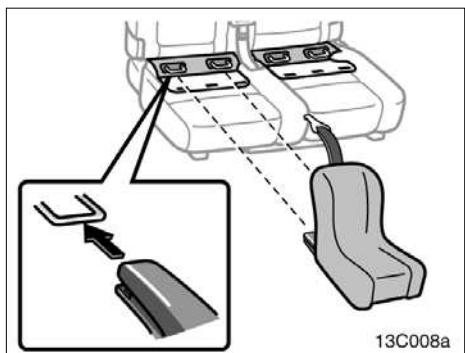
2. Latch the hooks of lower straps onto the anchorages and tighten the lower straps.

Type B—

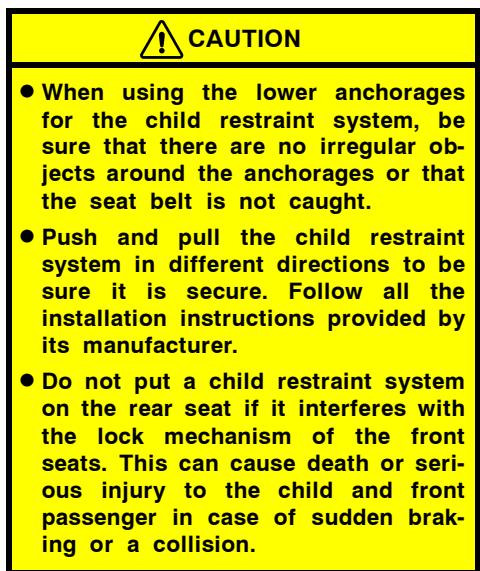
2. Latch the buckles onto the anchorages

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

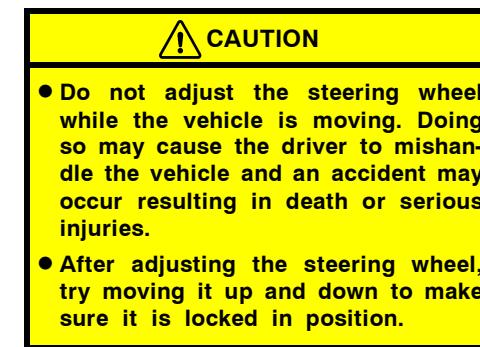
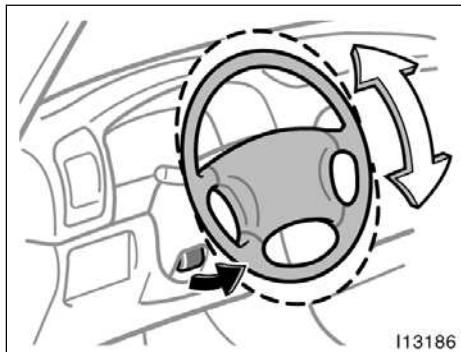
For the installation details, refer to the instruction manual equipped with each product.



Type B



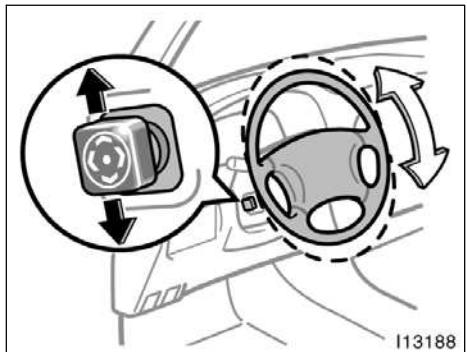
Manual tilt steering wheel



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.

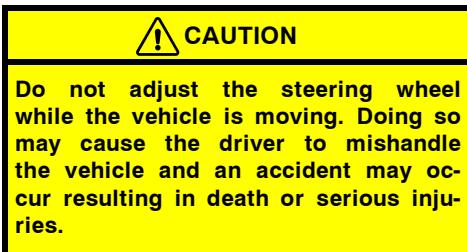
When the steering wheel is in a low position, it will spring up as you release the lock release lever.

Power tilt and telescopic steering wheel



ADJUSTMENT OF STEERING WHEEL TILT

To adjust the tilt of the steering wheel, push the control switch upward or downward to set it to the desired position.



ADJUSTMENT OF TELESCOPIC STEERING COLUMN

To adjust the steering column length, push the control switch forward or backward to set the steering wheel to the desired position.

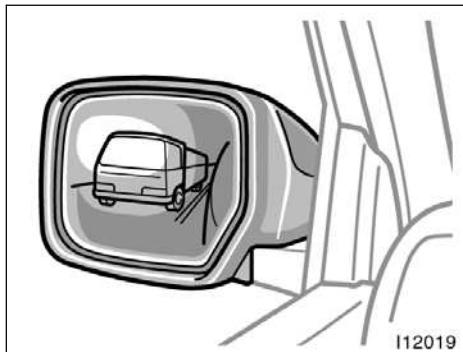


When the ignition key is removed, the steering column moves forward away from the driver and also tilts up for easy exit and entry.

When the key is inserted into the ignition switch, the steering column returns to the previously set position.

This feature can be set inoperative. Ask your Toyota dealer.

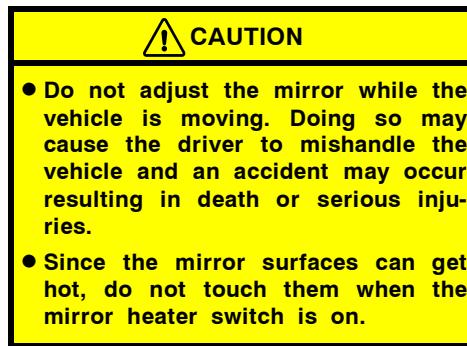
Outside rear view mirrors—



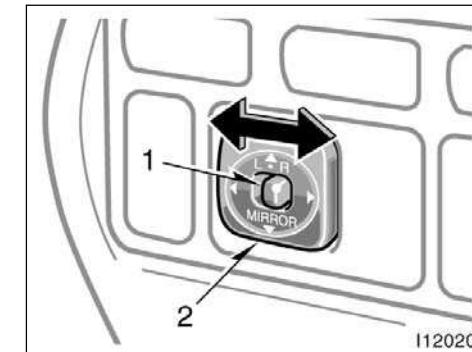
Adjust the mirror so that you can just see the side of your vehicle in the mirror.

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

When you push the outside rear view mirror heater switch, the heater panels in the outside rear view mirrors will quickly clear the mirror surface. (See "Outside rear view mirror heaters" in Section 1-4.)



—Power rear view mirror control



To adjust a mirror, use the switches.

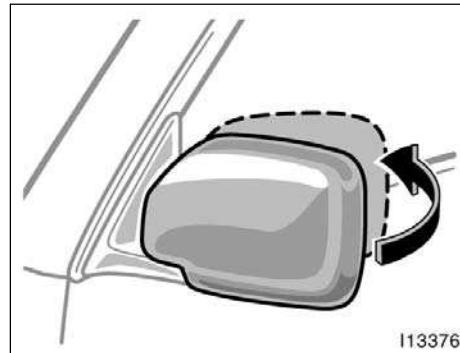
1. Master switch—To select the mirror to be adjusted
Place the switch at "L" (left) or "R" (right).
2. Control switch—To move the mirror
Push the switch in the desired direction.

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

NOTICE

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

—Folding rear view mirrors



I13376

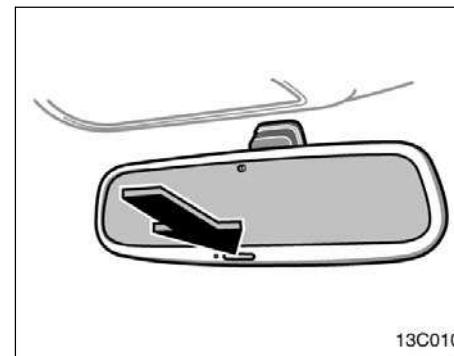
The rear view mirrors can be folded backward for parking in restricted areas.

To fold the rear view mirror, push backward.

! CAUTION

Do not drive with the mirrors folded backward. Both the driver and passenger side rear view mirrors must be extended and properly adjusted before driving.

Anti-glare inside rear view mirror—



13C010

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

Pushing the switch changes the mode between "AUTO" and "DAY".

The indicator comes on when the "AUTO" mode is selected.

"DAY" mode: The mirror surface is normal.

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

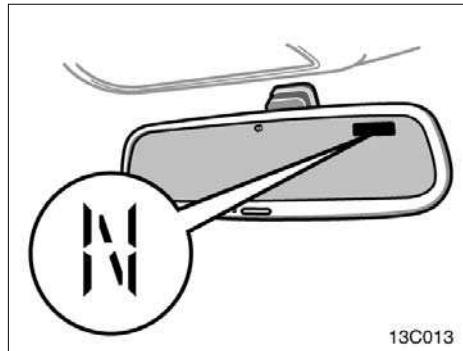
When the ignition key is inserted and turned on, the inside rear view mirror always turns on in the "AUTO" mode.

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

CAUTION

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

—Compass



The compass indicates the direction in which the vehicle is heading. The illustration shown above indicates the vehicle is heading north.

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

Pushing the "AUTO" button for longer 3 seconds turns on or off the compass display.

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

- The vehicle is stopped immediately after turning. The compass does not adjust while the vehicle is stopped.
- The ignition switch is turned off immediately after turning.
- The vehicle is on an inclined surface.
- The vehicle is in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground parking, under a steel tower, between buildings, roof parking, near a crossing, near a large vehicle, etc.).
- The vehicle is magnetized. (There is a magnet or a metal object on or near the inside rear view mirror.)
- The battery has been disconnected.
- Any door is open.

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

For obtaining additional precision or for complete calibrating, see "Calibrating the compass" below.

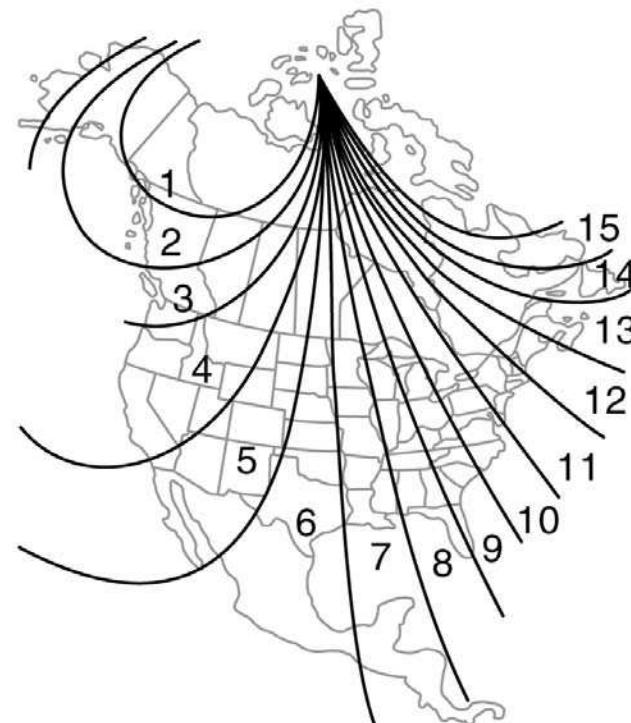
NOTICE

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

CALIBRATING THE COMPASS (deviation calibration)

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

To adjust for this deviation, stop the vehicle and push the button for longer than about 6 seconds until the number (1-15) appears on the display. Then push the button again, referring to the following map to select the number of the zone where the vehicle is.

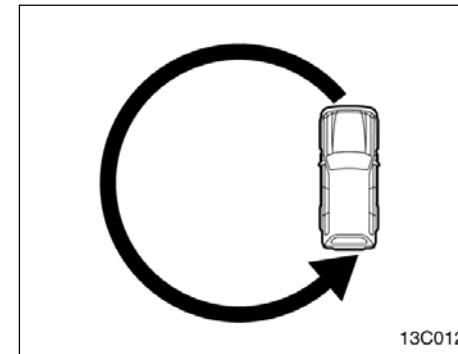
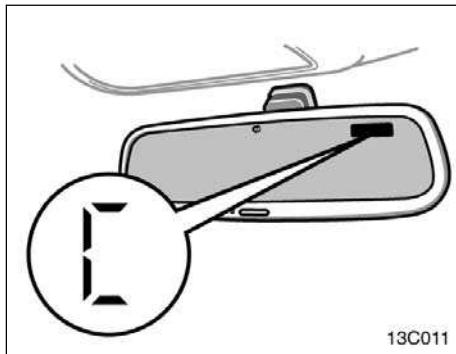


13C015

Zone number

★ Hawaii is included in zone 5.

If the direction is displayed several seconds after adjustment, the calibration is finished.



CALIBRATING THE COMPASS (circling calibration)

"C" appears on the display in case the circling calibration is required due to a drastic change in the magnetic field. To rectify this, follow the calibration procedure below.

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

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

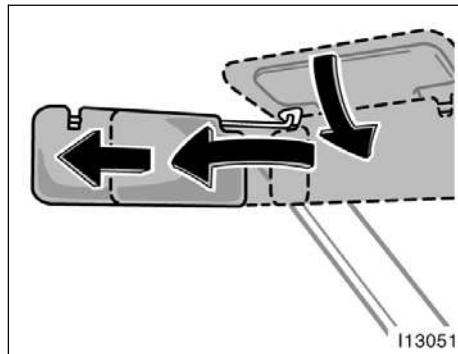
If calibration cannot be performed because of the magnetized vehicle, etc., take your vehicle to Toyota dealer.

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

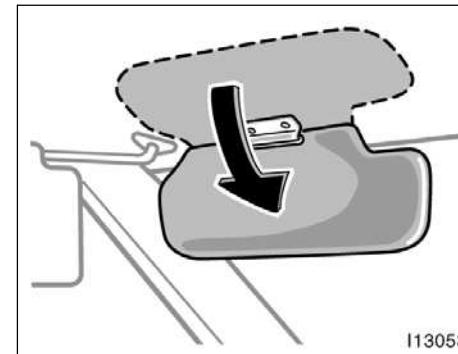
 **CAUTION**

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

Sun visors—



I13051



I13053

To block out glare, move the sun visor.

To block out glare from the front—Swing down the main sun visor.

To block out glare from the side—Swing down the main sun visor, remove it from the hook and swing it to the lateral side.

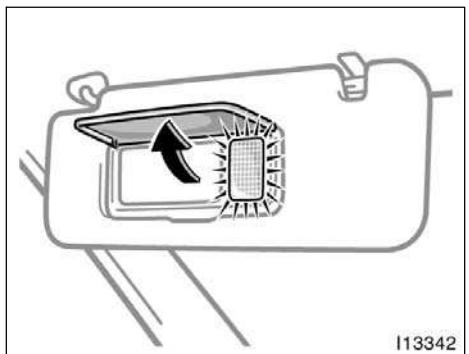
You can adjust its position as shown.

To block the glare from the front when the main sun visor is swung down, swing down the second sun visor.

 **CAUTION**

Slide the main sun visor only when it is swung down to the lateral side. It can cover the anti-glare inside rear view mirror and obstruct the rear view.

—Vanity mirror



To use the vanity mirror, swing down the main sun visor and open the cover.

The vanity light comes on when you open the cover.

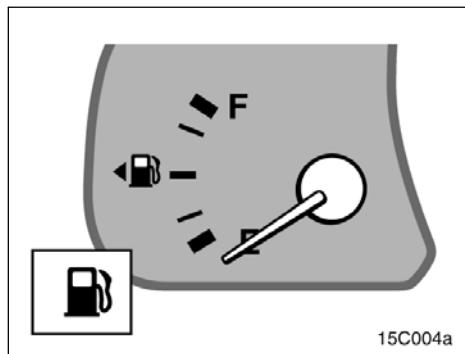
SECTION 1 - 5

OPERATION OF INSTRUMENTS AND CONTROLS

Gauges, Meters and Service reminder indicators

Fuel gauge	100
Engine coolant temperature gauge	100
Engine oil pressure gauge	101
Voltmeter	102
Tachometer	102
Odometer and two trip meters	102
Service reminder indicators and warning buzzers	103

Fuel gauge



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

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

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

Nearly full—Needle at "F"

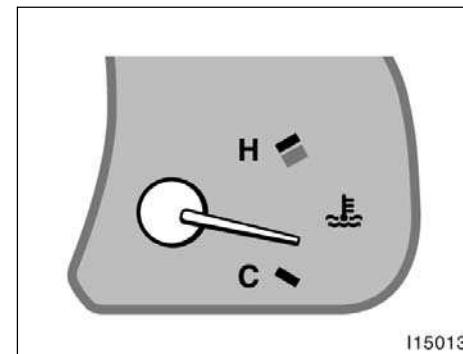
Nearly empty—Needle at "E"

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

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

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

Engine coolant temperature gauge



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

If the needle points to the red zone or higher, stop your vehicle and allow the engine to cool.

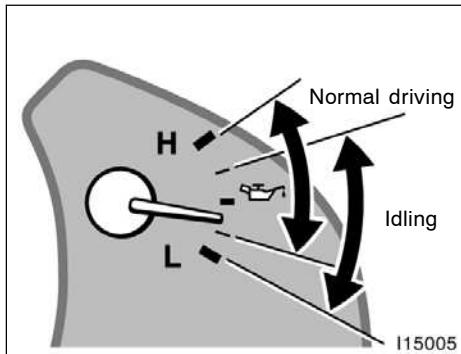
Your vehicle may overheat during severe operating conditions, such as:

- Driving up a long hill on a hot day.
- Reducing speed or stopping after high speed driving.
- Idling for a long period with the air conditioning on in stop-and-go traffic.
- Towing a trailer.

NOTICE

- ◆ *Do not remove the thermostat in the engine cooling system as this may cause the engine to overheat. The thermostat is designed to control the flow of coolant to keep the temperature of the engine within the specified operating range.*
- ◆ *Do not continue driving with an overheated engine. See "If your vehicle overheats" in Section 4.*

Engine oil pressure gauge



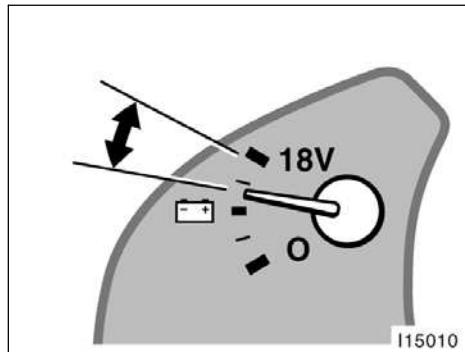
NOTICE

- Do not drive the vehicle with the engine oil pressure below the normal range until the cause is fixed—it may ruin the engine.*

The engine oil pressure gauge indicates engine oil pressure when the ignition switch is on. Check it while driving to make sure the needle is in the proper range.

If the engine oil pressure should stay below the normal range, pull off the road to a safe place and stop the engine immediately. Call a Toyota dealer or qualified repair shop for assistance.

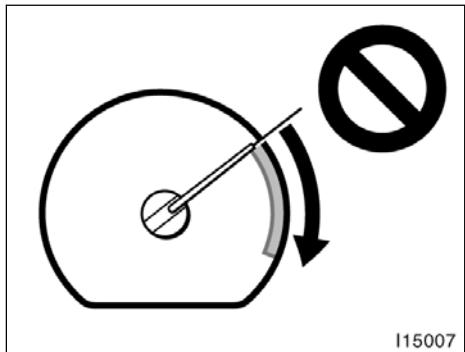
Engine oil pressure may not build up when the engine oil level is too low. The engine oil pressure gauge is not designed to indicate oil level, and the engine oil level must be checked using the level dipstick.

Voltmeter

The voltmeter tells whether the battery is charged or discharged. Check it while the engine is running—the needle should always indicate as shown above.

If the needle reads below or above the normal range while the engine is running, it indicates the charging system needs immediate repair.

However, it is normal for the needle to drop below the normal range during engine starting.

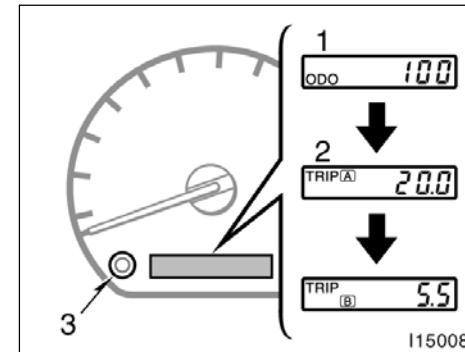
Tachometer

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

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

NOTICE

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

Odometer and two trip meters

This meter displays the odometer and two trip meters.

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

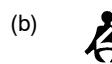
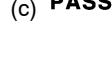
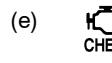
You can use one trip meter to calculate the fuel economy and the other to measure the distance on each trip. All trip meter data is cancelled if the electrical power source is disconnected.

3. Trip meter reset knob—Resets the two trip meters to zero, and also change the meter display.

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

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

Service reminder indicators and warning buzzers

If the indicator or buzzer comes on...	Do this.	If the indicator or buzzer comes on...	Do this.
(a) BRAKE  (Indicator and buzzer)	If parking brake is off, stop immediately and contact Toyota dealer.	(g)  ABS	Take vehicle to Toyota dealer immediately.
(b)  (Indicator and buzzer)	Fasten driver's seat belt.	(h) 	Take vehicle to Toyota dealer. If brake system warning light is also on, stop immediately and contact Toyota dealer.
(c) PASSENGER 	Fasten front passenger's seat belt.	(i) 	Close all side doors and back door.
(d) 	Stop and check.	(j) 	Shift four-wheel drive control out of "N".
(e)  CHECK	Take vehicle to Toyota dealer.	(k) 	Stop and check.
(f) 	Fill up tank.	(l)  VSC OFF	Take vehicle to Toyota dealer
		(m) Key reminder buzzer	Remove key.

(a) Brake System Warning Light and Buzzer

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

● When the parking brake is applied...

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

● When the brake fluid level is low...

⚠ CAUTION

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

● When the hydraulic brake booster fails...

If the hydraulic booster causes a problem resulting in poor braking performance, the warning light comes on and buzzer sounds continuously.

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

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

- The light does not come on even if the ignition key is turned on with the parking brake released.

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

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

Any of the following conditions may occur, but do not indicate the malfunction:

- The light may stay on for about 60 seconds after the ignition key is turned to "ON" position. It is normal if it goes out after a while.
- Depressing the brake pedal repeatedly may turn on the warning light and buzzer. It is normal if the light goes out and the buzzer stops sounding after a few seconds.
- You may hear a small sound in the engine compartment after the engine is started or the brake pedal is depressed repeatedly. This is a pump pulsating sound of the brake system, and it is not a malfunction.

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

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

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

(c) Front Passenger's Seat Belt Reminder Light

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

Once the ignition key is turned to "ON" or "START", the reminder light flashes if a passenger sits in the front passenger seat and does not fasten the seat belt. Unless the front passenger fastens the belt, the light stays flashing.

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

(d) Discharge Warning Light

This light warns that the battery is being discharged.

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

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

NOTICE

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

(e) Malfunction Indicator Lamp

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

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

● Empty fuel tank

If the fuel tank is empty, refuel immediately.

● Loose fuel tank cap

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

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

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

If the lamp will not go off even after the several trips...

or

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

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

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

If the engine speed does not increase with the accelerator pedal depressed down to about the middle position, there may be a problem somewhere in your electronic throttle control system.

At this time, if you depress the accelerator pedal more firmly and slowly, you can drive your vehicle at low speeds. Have your vehicle checked by your Toyota dealer as soon as possible.

Even if the abnormality of the electronic throttle control system is corrected during low speed driving, the system may not be recovered until the engine is stopped and the ignition key is turned to "ACC" or "LOCK" position.

 **CAUTION**

Be especially careful to prevent erroneous pedal operation.

Emissions Inspection and Maintenance (I/M) programs

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

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

(f) Low Fuel Level Warning Light

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

(g) SRS Warning Light

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

The warning light system monitors the airbag sensor assembly, front airbag sensors, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources.

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

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

(h) "ABS" Warning Light

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

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

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

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

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

- The light comes on while you are driving.

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

 **CAUTION**

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

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

Either of the following conditions may occur, but do not indicate the malfunction.

- The light may stay on for about 60 seconds after the ignition key is turned to "ON" position. It is normal if it turns off after a while.
- Depressing the brake pedal repeatedly may turn on the light. It is normal if it turns off after a few seconds.

(i) Open Door Warning Light

This light remains on until all the side doors and back door are completely closed.

(j) Unengaged "Park" Warning Light

This light warns that the transmission "Park" mechanism is not engaged. 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**

To restore the park function, shift the four-wheel drive control out of "N", or the vehicle can move.

(k) Automatic Transmission Fluid Temperature Warning Light

This light warns that the automatic transmission fluid temperature is too high.

If this light comes on while you are driving, slow down and pull off the road. Stop the vehicle at a safe place and put the selector lever in "P" and leave the engine idling until the light goes off. If the light goes off, you can start the vehicle again. If the light does not go off, call a Toyota dealer or qualified repair shop for assistance.

NOTICE

Continued driving with the warning light on may damage the automatic transmission.

(l) Vehicle Skid Control System and Active Traction Control System Warning Light

This light warns that there is a problem somewhere in the vehicle skid control system and/or active traction control system.

If the "VSC/TRAC" warning light and "VSC OFF" indicator light come on, have your vehicle checked by Toyota dealer as soon as possible. However, it is no problem that the "VSC/TRAC" warning light comes on when the brake actuator temperature becomes high. (For details, see "Active traction control system" in Section 1-6.)

The lights will come on with the ignition key turned to "ON", and will go off after a few seconds.

The lights may come on for 60 seconds after the ignition key is turned to "ON" position. It is normal if they go out after a while.

Depressing the brake pedal repeatedly may turn on the lights. It is normal if they go out after a few seconds.

When the "VSC/TRAC" warning light and "VSC OFF" indicator light come on, the vehicle skid control system and/or active traction control system are not operating, but there is no problem if you continue to drive.

(m) Key Reminder Buzzer

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

CHECKING SERVICE REMINDER INDICATORS (except the low fuel level warning light)

1. Apply the parking brake.
2. Open one of the side doors or back door.

The open door warning light should come on.

3. Close the door.
The open door warning light should go off.

4. Place the four-wheel drive control lever in "N" position and the selector lever in "P" position.

5. Turn the ignition key to "ACC".
The SRS warning light should come on.
It goes off after about 6 seconds.

6. Turn the ignition key to "ON", but do not start the engine.
All the service reminder indicators except the open door warning light and SRS warning light should come on. The "ABS", "VSC/TRAC", "VSC OFF", "TRAC", and slip indicator light go off after a few seconds.

There may be the case that the "ABS", "VSC/TRAC" and "VSC OFF" stay on for about 60 seconds after the ignition key is turned to "ON" position. It is normal if they go out after a while.

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

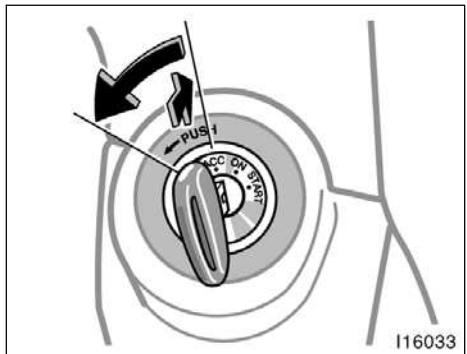
SECTION 1 - 6

OPERATION OF INSTRUMENTS AND CONTROLS

Ignition switch, Transmission and Parking brake

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Ignition switch with steering lock



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

For starting tips, see Section 3.

"ON"—Engine on and all accessories on.

This is the normal driving position.

"ACC"—Accessories such as the radio operate, but the engine is off.

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

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

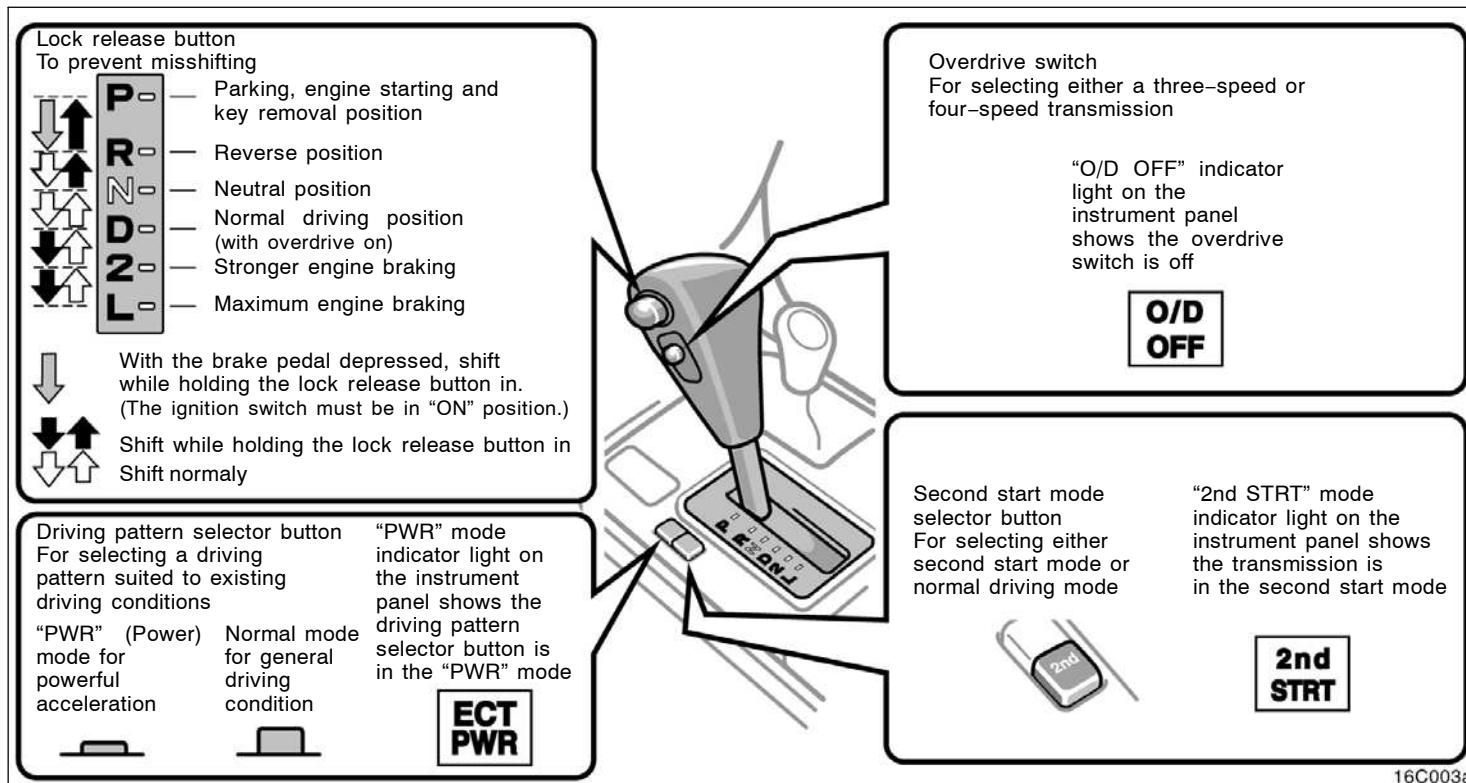
To turn the key from "ACC" to the "LOCK" position, you must put the selector lever in the "P" position.

Once you remove the key, the engine immobiliser system is automatically set. (See "Engine immobiliser system" in Section 1-2.)

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

NOTICE

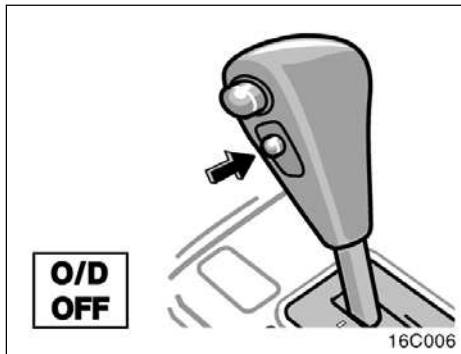
Do not leave the key in the "ON" position if the engine is not running. The battery will discharge and the electronic ignition system could be damaged.

Automatic transmission

When the cruise control is being used, even if you downshift the transmission by turning off the overdrive switch, engine braking will not be enabled because the cruise control is not cancelled. For ways to decrease the vehicle speed, see "Cruise control" in this section.

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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) Overdrive switch

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

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

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

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

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

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

(b) Normal driving

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

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

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

(c) 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 third gear.
- Shift into the "2" position. The transmission will downshift to second gear when the vehicle speed drops down to or lower than following speed for second gear, and more powerful engine braking will be enabled.

Four-wheel drive control lever in "H" 112 km/h (70 mph)

Four-wheel drive control lever in "L" 39 km/h (24 mph)

- Shift into the "L" position. The transmission will downshift to first gear when the vehicle speed drops down to or lower than following speed for "L" position and maximum engine braking will be enabled.

Four-wheel drive control lever in "H" 57 km/h (35 mph)

Four-wheel drive control lever in "L" 12 km/h (7 mph)

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

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

! CAUTION

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

(d) Using "2" and "L" positions

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

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

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

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

NOTICE

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

Transmission	km/h (mph)	
	L	H
2	42 (26)	104 (65)
L	23 (14)	57 (35)

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

(e) 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.

(f) 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 damage 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.

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.

(g) Good driving practice

- If the transmission repeatedly shifts up and down 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.

! CAUTION

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

NOTICE

If you rock your vehicle, observe the following precautions to prevent damage to the transmission and other parts.

- ◆ ***Do not depress the accelerator pedal while shifting the selector lever or before the transmission is completely shifted to forward or reverse gear.***
- ◆ ***Do not race the engine and avoid spinning the wheels.***
- ◆ ***If your vehicle remains stuck after rocking the vehicle several times, consider other ways such as towing.***

(i) 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.

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

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

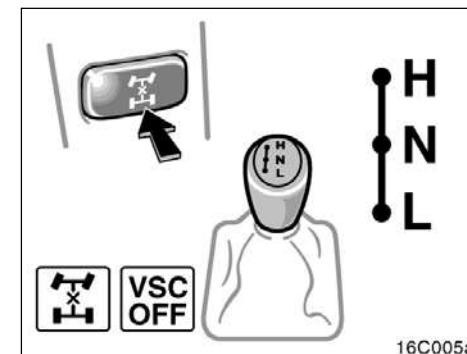
(k) Driving in "2nd STRT" (second start) mode

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**



Use the four-wheel drive control lever and center differential lock button to select the transfer and center differential modes.

The "H" and "L" position of the four-wheel drive control lever provides either lock or unlock mode of the center differential depending on the center differential lock button position.

Use the center differential lock system if your wheels get stuck in a ditch, or when you are driving on a slippery or bumpy surface. When the center differential is locked, the vehicle skid control system is automatically turned off and the center differential lock and "VSC OFF" indicator lights come on because the function that controls engine performance interferes with the process of freeing your wheels.

NOTICE

As soon as the center differential lock switch is turned on, the "VSC OFF" indicator light comes on. After the wheels are out of the ditch or off the slippery or bumpy surface, turn the center differential lock switch off. Make sure the center differential lock indicator light and vehicle skid control system off indicator light turn off.

"H" (high speed position, center differential unlocked): Lever at "H", center differential lock button left out

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.

"H" (high speed position, center differential locked): Lever at "H", center differential lock button pushed in

Use this for greater traction when you experience a loss of power, such as wheel slipping, in the center differential unlock mode.

"N" (neutral position): Lever at "N"

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

"L" (low speed position, center differential unlocked): Lever at "L", center differential lock button left out

Use this for maximum power and traction. Use this for climbing or descending steep hills, off-road driving, and hard pulling in sand or mud.

In this mode, the braking feeling that occurs when the wheels are negotiating a sharp corner is further reduced than in the "L" (low position, center differential locked) mode.

"L" (low speed position, center differential locked): Lever at "L", center differential lock button pushed in.

Use this for maximum power and traction. Use this for hard pulling in situations the vehicle cannot negotiate even in the "L" (low speed position, center differential unlocked) mode. Also, using this mode when driving down steep off-road inclines will help contribute to increased vehicle stability.

The indicator light tells when the 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 go off when you push out the center differential lock button, drive straight ahead while accelerating or decelerating, or drive in reverse. See "(b) Shifting procedure" for further instructions.

Advice for driving on slippery roads in "L" (low speed position) mode

If you shift the four-wheel drive control lever to "L" and the automatic transmission lever to "2" when you drive in steep off-road areas, the output of the brake can be controlled effectively by the active traction control system, which assists the driver to control the driving power of 4 wheels.

Use the "L" position of the automatic transmission lever for maximum power and traction when your wheels get stuck or when you drive down a steep incline. In the following cases, the output of the brake can be controlled by the active traction control system if the engine speed is under 3,000 rpm (normally engine speed is under 3,000 rpm when the wheels get unstuck).

- The four-wheel drive control lever in the "L" position and the automatic transmission lever in the "L" position or the automatic transmission lever in the "D" or "2" with the transmission down-shifting to the first gear

- The four-wheel drive control lever in the "L" position and the automatic transmission lever in the "R" position
(As for the automatic transmission lever positions, see "Automatic transmission" in this section.)

(b) Shifting procedure

SHIFTING BETWEEN "H" (UNLOCKED) AND "H" (LOCKED)

To shift between unlock and lock modes in "H", push the center differential lock button.

SHIFTING BETWEEN "L" (UNLOCKED) AND "L" (LOCKED)

To shift between unlock and lock modes in "L", push the center differential lock button.

SHIFTING BETWEEN "H" AND "L"

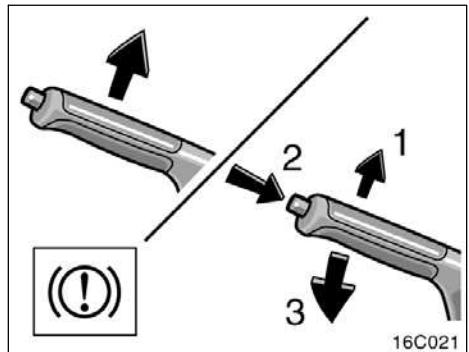
Stop the vehicle, put the transmission into "N" and move the four-wheel drive control lever.



CAUTION

Never move the four-wheel drive control lever if wheels are slipping. Wait until the wheels have stopped slipping or spinning before shifting.

Parking brake



When parking, firmly apply the parking brake to avoid inadvertent creeping.

To set: Pull up the lever. For better holding power, first depress the brake pedal and hold it while setting the parking brake.

To release: Pull up the lever slightly (1), press the lock release button (2), and lower (3).

To remind you that the parking brake is set, the parking brake reminder light in the instrument panel remains on until you release the parking brake.

CAUTION

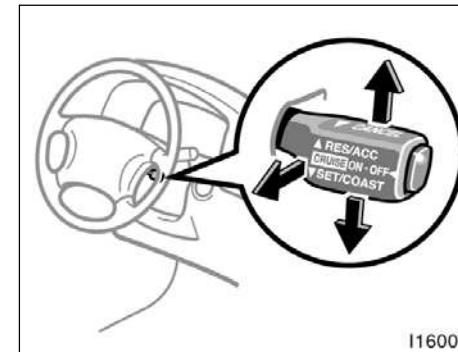
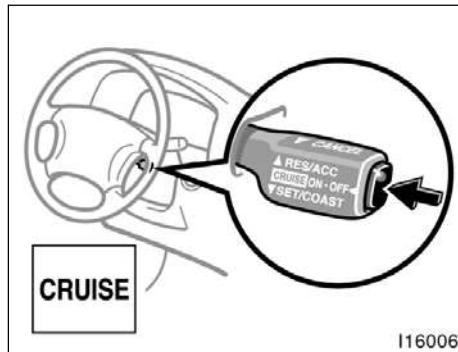
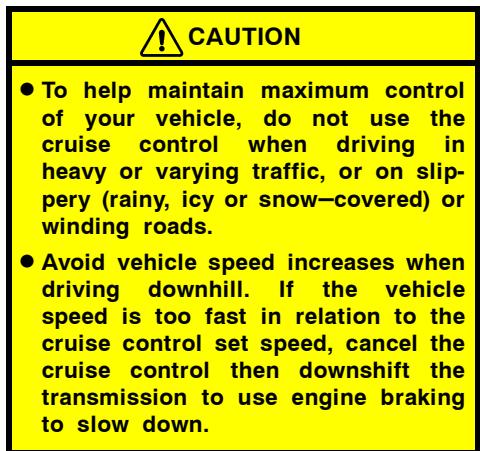
Before driving, be sure the parking brake is fully released and the parking brake reminder light is off.

Cruise control

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

Your cruising speed can be maintained 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.

When the cruise control is on, the driving pattern of the automatic transmission is fixed in the normal position, regardless of the position of the driving pattern selector switch.



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

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 "CANCEL" 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 for other than the above cases, have your vehicle checked by your Toyota dealer at the earliest opportunity.

RESETTING TO A FASTER SPEED

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

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

RESETTING TO A SLOWER SPEED

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

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

Even if you downshift the transmission by turning off the overdrive switch, with the cruise control on, engine braking will not be applied because the cruise control is not cancelled. To decrease the vehicle speed, reset to a slower speed with the cruise control lever or depress the brake pedal. If you use the brake pedal, cruise control is cancelled.

RESUMING THE PRESET SPEED

If the preset speed is cancelled by pulling the control lever or by depressing the brake 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.

CRUISE CONTROL FAILURE WARNING

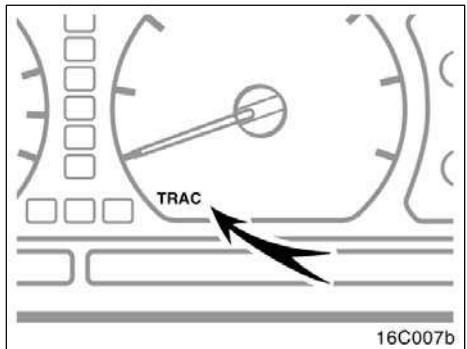
If the "CRUISE" indicator light in the instrument cluster flashes when using the cruise control, press the "CRUISE ON-OFF" button to turn the system off and then press it again to turn it on.

If any of the following conditions then occurs, there is some trouble in the cruise control system.

- The indicator light does not come on.
- The indicator light flashes again.
- The indicator light goes out after it comes on.

If this is the case, contact your Toyota dealer and have your vehicle inspected.

Active traction control system



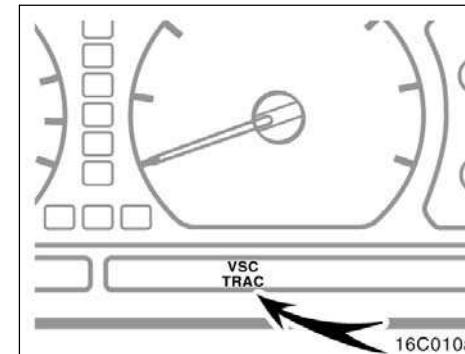
Active traction control system indicator light

The active traction control system automatically helps control the spinning of 4 wheels which may occur when accelerating on slippery road surfaces, by controlling the output of the brake and engine. Thus, the system assists driver to control the driving power of 4 wheels. When you turn the ignition switch on, the active traction control system always turns on automatically, and the active traction control indicator light will come on. The indicator light will go off after a few seconds.

When active traction control is applied, the active traction control system indicator light blinks.

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 active traction control system is in the self-check mode, and does not indicate malfunction. When the active traction control system is operating, you may feel vibration or noise of your vehicle, caused by operation of the brakes. This indicates the system is functioning properly.

When getting the vehicle out of mud or new snow, etc. the active traction control system will help operate to prevent the wheels from spinning.



Active traction control system failure warning

This light warns when there is a problem somewhere in the active traction control system.

If the "VSC/TRAC" warning light comes on, have your vehicle checked by your Toyota dealer as soon as possible.

The brake actuator temperature increases during the active traction control system or vehicle stability control system operating. If the brake actuator temperature becomes too high while the active traction control system or vehicle stability control system is operating, a buzzer will start to sound intermittently to indicate that the active traction control system can no longer operate. In this case, immediately stop your vehicle at a safe place. If the system continues to operate, the buzzer sound changes from intermittent to continuous. (The continuous buzzer sounds for about 3 seconds.) At the time, the "VSC/TRAC" warning light will come on and the traction control system temporarily stops operating in order to protect the brake actuator. (Although the active traction control system does not operate, there is no problem to continue your driving.) The system will be automatically restored after a short time and "VSC/TRAC" warning light goes off if the accelerator pedal is released.

When the "ABS" warning light come on, the active traction control system is not operating.

The "VSC/TRAC" warning light will come on when the ignition key is turned "ON", and will go off after a few seconds.

The "VSC/TRAC" warning light may stay on for 60 seconds after the ignition key is turned to "ON" position. It is normal if it goes off after a few seconds.

Depressing the brake pedal repeatedly may turn on the "VSC/TRAC" warning light. It is normal if it goes off after a few seconds.

When the "VSC/TRAC" warning light comes on the active traction control system is not operating, but there is no problem if you continue to drive.

In the following cases, contact your Toyota dealer:

- The "VSC/TRAC" warning light does not come on after the ignition key is turned "ON".
- The "VSC/TRAC" remains on after the ignition key is turned "ON".

 CAUTION

Under certain slippery road conditions, full traction of the vehicles and power to 4 wheels may not be maintained, even though the active traction control system is in operation. Do not drive the vehicle under any speed or maneuvering conditions which will cause the vehicle to lose traction. In situations where the road surface is covered with ice or snow, your vehicle should be fitted with snow tires or tire chains. Always drive at an appropriate and cautious speed for the road conditions present.

Vehicle skid control system

The vehicle skid control system helps provide comprehensive control of systems such as anti-lock brake, traction control, engine control, etc. This system automatically controls the output of the brakes or engine to help prevent the vehicle from skidding under adverse conditions.

The vehicle skid control system activates when the vehicle speed is more than the following speed.

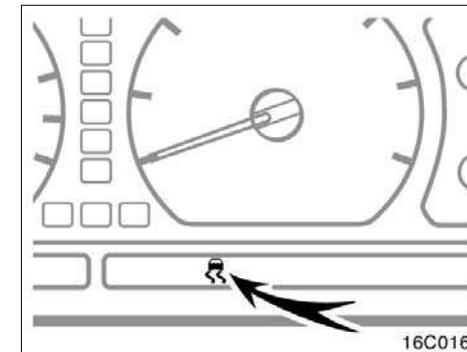
Four-wheel drive control lever in "H" 15 km/h (9 mph)

Four-wheel drive control lever in "L" 30 km/h (19 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 vehicle skid control is in the self-check mode and does not indicate a malfunction.

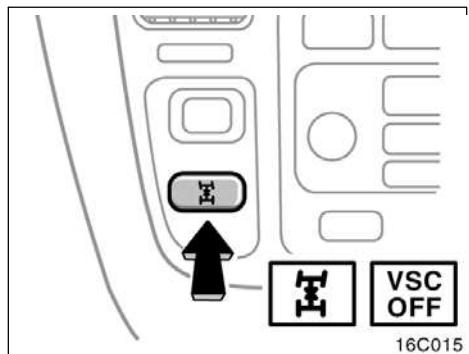
CAUTION

- Active traction control system, vehicle skid control system and anti-lock brake system are electronic systems designed to help the driver maintain control under adverse conditions. They are not a substitute for safe driving practices. Factors including speed, road conditions and driver steering input can all affect whether active traction control system, vehicle skid control system and anti-lock brake system will be effective in preventing a loss of control. Always keep safety driving in mind. If the slip indicator light flashes, sounding an alarm, special care should be taken while driving.
- Only use tires of specified size. The size, manufacturer, brand and tread pattern for all 4 tires should be the same. If you use the tires other than specified, or different type or size, the vehicle skid control system may not function correctly. When replacing the tires or wheels, contact your Toyota dealer. (See "Checking and replacing tires" in Section 7-2.)

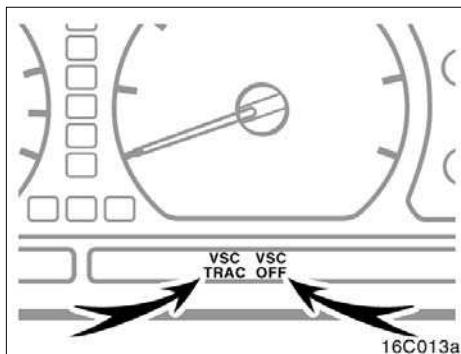


If the vehicle is going to skid during driving, the slip indicator light flashes and an alarm sounds intermittently.

When you turn the ignition switch on, the slip indicator light will come on. The slip indicator light will go off after a few seconds.



Pushing the center differential lock button automatically turns the vehicle skid control system off. At this time, the "VSC OFF" indicator comes on with the center differential lock indicator light. (For details, see "Four-wheel drive system—(a)Four-wheel drive control" in this section.)



Vehicle skid control system failure warning

These lights warn when there is a problem somewhere in the vehicle skid control system or active traction control system.

If the "VSC/TRAC" warning light and "VSC OFF" indicator light come on, have your vehicle checked by your Toyota dealer as soon as possible. However, there is no problem the "VSC/TRAC" warning light comes on when the brake actuator temperature becomes high. (For details, see "Active traction control system" in this section.)

When the "ABS" warning light comes on, the vehicle skid control system is not operating.

The "VSC/TRAC" warning light and "VSC OFF" indicator light will come on when the ignition key is turned "ON", and will go off after a few seconds.

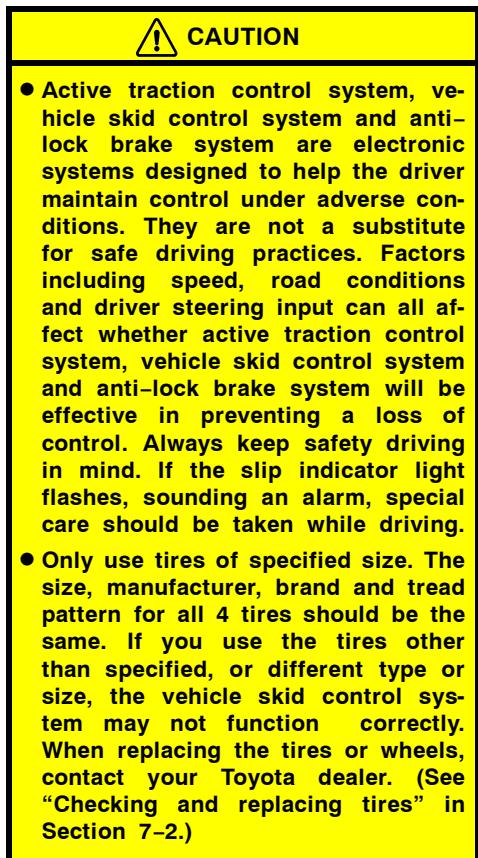
The "VSC/TRAC" warning light and "VSC OFF" indicator light may stay on for 60 seconds after the ignition key is turned to "ON" position. It is normal if they go off after a few seconds.

Depressing the brake pedal repeatedly may turn on the lights. It is normal if they go off after a few seconds.

When the "VSC/TRAC" warning light and "VSC OFF" indicator light come on, the vehicle skid control system is not operating, but there is no problem if you continue to drive.

In the following cases, contact your Toyota dealer:

- The "VSC/TRAC" warning light, "VSC OFF" indicator light and slip indicator light do not come on after the ignition key is turned "ON".
- The "VSC/TRAC" warning light and "VSC OFF" indicator light remain on after the ignition key is turned "ON".
- The "VSC OFF" indicator light comes on while driving without pushing the center differential lock switch.



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SECTION 1 - 7

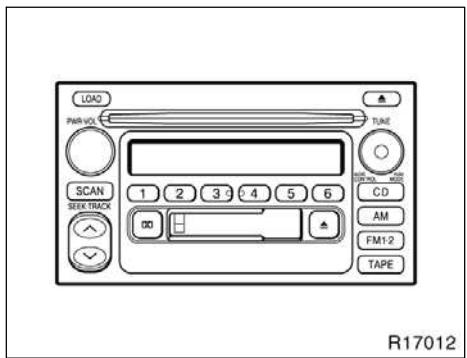
OPERATION OF INSTRUMENTS AND CONTROLS

Car audio system

Reference	128
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For vehicle equipped with Navigation system, please refer to the separate "Owner's Manual for Navigation System".

Reference



AM-FM ETR radio/cassette player/compact disc auto changer controller/compact disc auto changer

Using your audio system— —some basics

This section describes some of the basic features on Toyota audio systems. Some information may not pertain to your system.

Your audio system works when the ignition key is in the "ACC" or "ON" position.

TURNING THE SYSTEM ON AND OFF

Push "PWR·VOL" to turn the audio system on and off.

Push "AM", "FM1·2", "TAPE" or "CD" to turn on that function without pushing "PWR·VOL".

You can turn on each player by inserting a cassette tape or compact disc.

You can turn off each player by ejecting the cassette tape or compact disc. If the audio system was previously off, then the entire audio system will be turned off when you eject the cassette tape or compact disc. If the another function was previously playing, it will come on again.

SWITCHING BETWEEN FUNCTIONS

Push "AM", "FM1·2", "TAPE" or "CD" if the system is already on but you want to switch from one function to another.

TONE AND BALANCE

For details about your system's tone and balance controls, see the description of your own system.

Tone

How good an audio program sounds to you is largely determined by the mix of the treble, midrange, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, midrange, and bass.

Balance

A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

Keep in mind that if you are listening to a stereo recording or broadcast, changing the right/left balance will increase the volume of one group of sounds while decreasing the volume of another.

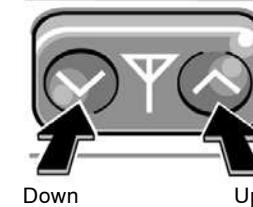
YOUR RADIO ANTENNA**Lowering the antenna**

The antenna automatically extends when the radio is on or the radio system is on, and retracts when the radio mode is off. To lower a power antenna, push the "V" (down) switch. Also, the antenna automatically goes down when the radio mode is switched off to turn on the cassette tape player or compact disc player, turning off the audio system by pushing "PWR·VOL" or turning the ignition key to "LOCK" position.

Some models also have an antenna printed on the inside of the right side quarter window.

NOTICE

- ◆ *To prevent damage to the antenna, make sure it is retracted before driving your Toyota through an automatic car wash.*
- ◆ *On models with glass antenna, attaching the film (especially conductive or metallic type) on the right side quarter window will noticeably reduce the sensitivity of the radio.*
- ◆ *Antenna must have to be extended higher than 100 mm (3.94 in.) length when the audio is on. Extend the antenna mast when the radio signal is weak.*



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Adjusting the 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.

YOUR CASSETTE PLAYER

When you insert a cassette, the exposed tape should be to the right.

NOTICE

Do not oil any part of the player and do not insert anything other than cassette tapes into the slot, or the tape player may be damaged.

NOTICE

Never try to disassemble or oil any part of the compact disc player. Do not insert anything except a compact disc into the slot.

The player is intended for use with 12 cm (4.7 in.) discs only.

YOUR COMPACT DISC PLAYER

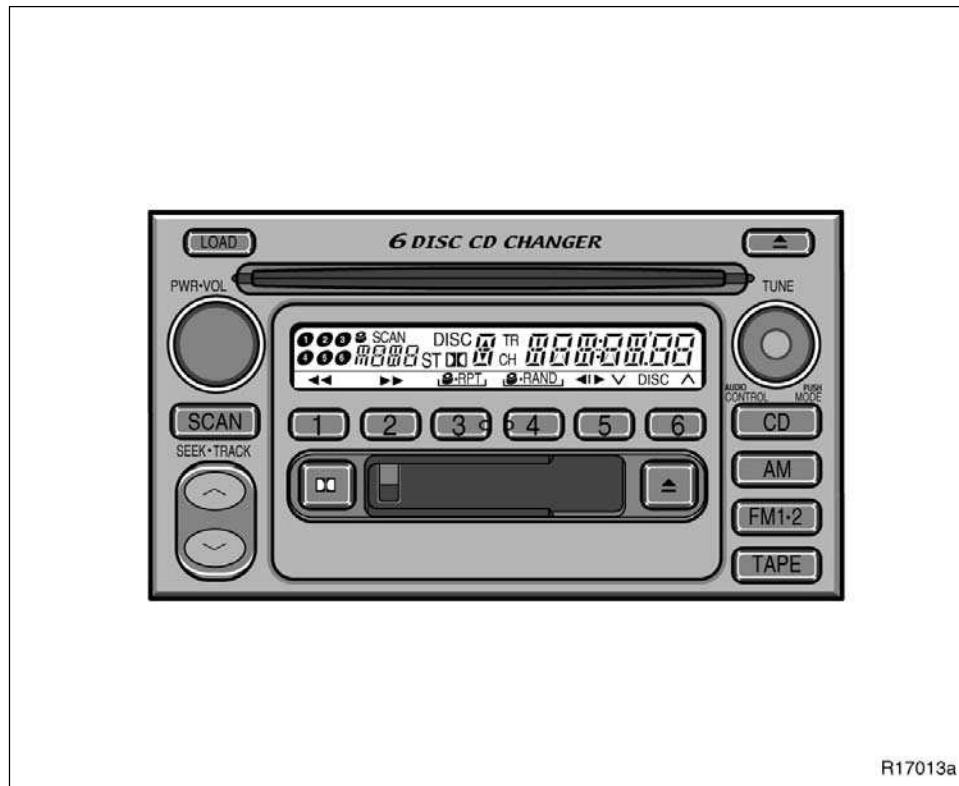
When you insert a disc, gently push it in with the label side up. (The player will automatically eject a disc if the label side is down.)

The discs set in the player are played continuously, starting with disc number 1. The disc number of the disc currently being played, the track number and the time from the beginning of the program appear on the display.

When play of one disc ends, the first track of the following disc starts. When play of the final disc ends, play of the first disc starts again.

The player will skip any empty disc number.

—Controls and features



Details of specific buttons, controls, and features are described in the alphabetical listing that follows.

1 2 3 4 5 6 (Preset buttons)

These buttons are used to preset and tune in radio stations.

To preset a station to a button: Tune in the desired station (see "TUNE" knob or "SEEK" button). Push and hold down the button until you hear a beep—this will set the station to the button. The button number will appear on the display.

To tune in to a preset station: Push the button for the station you want. The button number and station frequency will appear on the display.

These systems can store one AM and two FM stations for each button (The display will show "AM", "FM1" or "FM2" when you push "AM" "FM1-2").

▲ (Eject button)

Cassette tape

Push the cassette tape eject button to eject a cassette.

After you turn the ignition to "LOCK", you will be able to eject a cassette, but you will not be able to reinsert it.

Compact disc

To eject one compact disc only: Push and release the compact disc eject button. If you hold the button too long (if the audio system is on at this time, you hear a beep.), the mechanism will change to the mode for ejecting all the discs loaded in the changer. You can also eject any specific one of the discs loaded in the player as follows:

1. Push either side of the "DISC" button until the number of the disc you want to eject is displayed.
2. Push and release the compact disc eject button.

To eject all the discs loaded in the player: Push and hold the compact disc eject button (until you hear a beep when the audio system is on). The last compact disc played before pushing the button will be ejected first. If a disc is left in the slot for a long time, the function to eject all the discs will be automatically cancelled.

After you turn the ignition to "LOCK", you will be able to eject one compact disc only or all the discs loaded in the player, but you will not be able to reinsert it or them.

◀▶ (Program)

Push "◀▶" to select the other side of a cassette tape. The display indicates which side is currently selected ("▲" indicates top side, "▼" indicates bottom side).

Auto-reverse feature: After the cassette player reaches the end of a tape side, it automatically reverses and begins to play the other side. This is true whether the cassette was playing or fast forwarding.

◀◀/▶▶ (Reverse/Fast forward buttons)

Cassette Player

Push the fast forward button to fast forward a cassette tape. "FF" will appear on the display. Push the reverse button to rewind a tape. "REW" will appear on the display.

To stop the tape while it is fast forwarding, push the fast forward button or "TAPE"; to stop the tape while it is rewinding, push the reverse button or "TAPE".

If a tape side rewinds completely, the cassette player will stop and then play that same side. If a tape fast forwards completely, the cassette player will play the other side of the tape, using the auto-reverse feature.

Compact Disc Player

If you want to fast forward or reverse through a compact disc track, push and hold in the fast forward or reverse button. When you release the button, the compact disc player will resume playing.

AM

Push "AM" to turn on the radio and select the AM band. "AM" will appear on the display.

If the audio system is off, you can turn on the radio by pushing "AM". Also, push "AM" to switch from cassette or compact disc operation to radio operation.

CONTROL / MODE (Audio control and mode adjustment)

Manual tone adjustment function—

This knob is used to adjust the tone manually.

For low-pitch tone adjustment, push "CONTROL / MODE" repeatedly until "BAS" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "BAS -5" to "BAS 5".

For middle-pitch tone adjustment, push "CONTROL / MODE" repeatedly until "Mid" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "Mid -5" to "Mid 5".

For high-pitch tone adjustment, push "CONTROL / MODE" repeatedly until "TRE" appears on the display. Then turn the knob to suit your preference.

The display will show the range from "TRE -5" to "TRE 5".

Sound balance adjustment function—

This knob is also used to adjust the sound balance between the front and rear, and the right and left speakers.

For front/rear adjustment, push "CONTROL / MODE" repeatedly until "FAd" appears on the display. Then turn the knob to adjust the front/rear balance.

The display will show the range from "FAd-F7" to "FAd-R7".

For left/right adjustment, push "CONTROL / MODE" repeatedly until "BAL" appears on the display. Then turn the knob to adjust the left/right balance.

The display will show the range from "BAL-L7" to "BAL-R7".

CD (Compact Disc)

Push "CD" to switch from radio or cassette operation to compact disc operation. If the audio system is off, you can turn on the compact disc player by pushing "CD". In both cases, a disc must already be loaded in the player.

When the audio is set into compact disc operation, the display shows the track or, track and disc number currently being played.

If the player or another unit equipped with the player malfunctions, your audio system will display one of the six following error messages.

If "WAIT" appears on the display, it indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the disc or magazine from the player and allow the player to cool down.

If "Err 1" appears on the display, it indicates the disc is dirty, damaged. Clean the disc or insert it correctly.

If "Err 3" appears on the display, it indicates there is a trouble inside the system. Eject the disc. Set the disc again.

If the malfunction is not rectified, take your vehicle to your Toyota dealer.

DISC $\vee \wedge$

By using this button, you can select a disc you wish to listen to.

Push either side of the button until the number of the disc you want to listen to appears on the display.

Dolby® $\square \square$ B NR*

If you are listening to a tape that was recorded with Dolby® B Noise Reduction, push the button marked with the double-D symbol. The double-D symbol will appear on the display. Push the button again to turn off Dolby® B NR.

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

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

FM1·2

Push "FM1·2" to turn on the radio and select the FM band. "FM1" or "FM2" will appear on the display. This system allows you to set twelve FM stations, two for each button.

If the audio system is off, you can turn on the radio by pushing "FM1·2". Also, push "FM1·2" to switch from cassette or compact disc operation to radio operation.

LOAD

This button is used to load the compact discs in the compact disc auto changer which is integrated with the radio and cassette player. This compact disc auto changer can store up to 6 discs.

The key must be in the "ACC" or "ON" position.

Loading one compact disc only—

To load one compact disc only, quickly push and release the button. If you hold the button too long (if the audio system is on at this time, you hear a beep.), the mechanism will change to the mode for loading multiple compact discs. After pushing the button, insert a compact disc. At this time, the indicators on both sides of the slot are flashing. After the disc is loaded, the shutter of the slot will close and the indicators will stop flashing.

If no compact disc is inserted, the shutter will close after 15 seconds.

Loading multiple compact discs—

To load multiple compact discs, push and hold (until you hear a beep when the audio system is on). After pushing the button, insert the first compact disc. At this time, the indicators on both sides of the slot are flashing. After the disc is loaded, the shutter of the slot will close and the indicators will stop flashing. After a few seconds, the shutter will automatically open again so the next disc can be inserted. The same process can be applied for loading the rest of the discs.

If no compact disc is inserted, the shutter will close after 15 seconds.

PWR·VOL (Power and Volume)

Push “PWR·VOL” to turn the audio system on and off. Turn “PWR·VOL” to adjust the volume.

RAND (Random)

There are two random features—you can either listen to the tracks on all the compact discs in the player in random order, or only listen to the tracks on a specific compact disc in random order.

To randomly play for the tracks on a disc: Quickly push and release “RAND”. “RAND” will appear on the display. The disc you are listening to will play in random order. If you hear a beep, you held the button too long, and the player will play all the tracks in the player in random order. To turn off the random feature, push this button again.

To randomly play for all the tracks in the player:

Push and hold “RAND” until you hear a beep. “~~RAND~~” will appear on the display and the player will perform all the tracks on all the discs in the player in random order. To turn off the random feature, push this button again.

RPT (Repeat)

Cassette Player

Push “RPT” while the track is playing. “RPT” will appear on the display. When the track ends, it will automatically be rewound and replayed. This process will be continued until you push the button again to turn off the repeat feature.

There must be at least 3 seconds of blank space between tracks in order for the repeat feature to work correctly.

Compact Disc Player

There are two repeat features—You can either replay a disc track or a whole compact disc.

Repeating a track:

Quickly push and release “RPT” while the track is playing. “RPT” will appear on the display. If you hear a beep, you held the button too long, and the player will repeat the whole disc. When the track ends, it will automatically be replayed. This process will be continued until you push the button again to turn off the repeat feature.

Repeating a disc:

Push and hold “RPT” until you hear a beep. “~~RPT~~” will appear on the display. The player will repeat all the tracks on the disc you are listening to. When the disc ends, the player will automatically go back to the first track of the disc and replay. This process will be continued until you push the button again to turn off the repeat feature.

SCAN

Radio

You can either scan all the frequencies on a band or scan only the preset stations for that band.

To scan the preset stations:

Push and hold “SCAN” until you hear a beep. The radio will tune in the next preset station up the band, stay there for 5 seconds, and then move to the next preset station. To select a station, push “SCAN” again.

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To scan all the frequencies:

Quickly push and release "SCAN". If you hear a beep, you held the button too long, and the radio will scan the preset stations. The radio will find the next station up the station band, stay there for 5 seconds, and then scan again. To select a station, push "SCAN" again.

Compact disc player

There are two scan features—you can either scan the tracks on a specific disc or scan the first tracks of all the discs in the player.

Scanning the tracks on a disc:

Quickly push and release "SCAN". "SCAN" will appear on the display and the player will scan all the tracks on the disc you are listening to. If you hear a beep, you held the button too long, and the player will scan the first track of all the discs in the player. To select a track, push "SCAN" again. If the player scanned all the tracks on the disc, it will stop scanning.

Scanning the first track of all the discs in the player:

Push "SCAN" until you hear a beep. "SCAN" will appear on the display and the player will perform the first track of the next disc. To select a disc, push the "SCAN" again. If the player has scanned all the discs, it will stop scanning.

SEEK (Seeking)

Radio

In the seek mode, the radio finds and plays the next station up or down the station band.

To seek a station, quickly push and release the "▲" or "▼" under the "SEEK". Do this again to find another station.

Cassette Player

By using this button, you can skip up or down to a different track.

You can skip up to nine tracks at a time.

Push the up or down side of the button. "FF 1" or "REW 1" will appear on the display.

Next, push either side of the track button until the number on the display reaches the number of tracks you want to skip. If you push the button ten times, the skip feature will be turned off.

When counting the number of tracks you want to rewind, remember to count the current track as well. For example, if you want to rewind to a song that is two before the song you are listening to, push on the down side of the button until "REW 3" appears on the display.

If you have pushed the track button more than you wanted to, push the other side of the button. The track number will be reduced.

The track number you select is not valid if it is higher than the number of tracks remaining on the current cassette side.

- After the beginning of the tape is reached, the player will automatically start playing the same side.
- After the end of the tape is reached, the player will automatically reverse sides and start playing the other side.

There must be at least 3 seconds of blank space between tracks for the track button to work correctly. In addition, the feature may not work well with some spoken word, live, or classical recordings.

ST (Stereo reception) display

Your radio automatically changes to stereo reception when a stereo broadcast is received. "ST" appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception.

TAPE

Push "TAPE" to switch from radio or compact disc operation to cassette operation. If the audio system is off, you can turn on the cassette player by pushing "TAPE". In both cases, a cassette must already be loaded in the player.

TRACK (Track up/down button): Compact disc player

By using this button, you can skip up or down to a different track.

Push either side of the track button until the number of the track you want to listen to appears on the display. If you want to return to the beginning of the current track, push the down side of the button one time, quickly.

TUNE (Tuning)

Your Toyota has an electronic tuning radio (ETR). Turn the knob clockwise to step up the frequency. Turn the knob counterclockwise to step down the frequency.

Car audio system operating hints

NOTICE
<i>To ensure correct audio system operations:</i>
◆ <i>Be careful not to spill beverages over the audio system.</i>
◆ <i>Do not put anything other than a cassette tape or Compact Disc into the slot.</i>
◆ <i>The use of a cellular phone inside or near the vehicle may cause a noise from the speakers of the audio system which you are listening to. However, this does not indicate a malfunction.</i>

RADIO RECEPTION

Usually, a problem with radio reception does not mean there is a problem with your radio—it is just the normal result of conditions outside the vehicle.

For example, nearby buildings and terrain can interfere with FM reception. Power lines or telephone wires can interfere with AM signals. And of course, radio signals have a limited range. The farther you are from a station, the weaker its signal will be. In addition, reception conditions change constantly as your vehicle moves.

Here are some common reception problems that probably do not indicate a problem with your radio:

FM

Fading and drifting stations—Generally, the effective range of FM is about 40 km (25 miles). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

Multi-path—FM signals are reflective, making it possible for two signals to reach your antenna at the same time. If this happens, the signals will cancel each other out, causing a momentary flutter or loss of reception.

Static and fluttering—These occur when signals are blocked by buildings, trees, or other large objects. Increasing the bass level may reduce static and fluttering.

Station swapping—if the FM signal you are listening to is interrupted or weakened, and there is another strong station nearby on the FM band, your radio may tune in the second station until the original signal can be picked up again.

AM

Fading—AM broadcasts are reflected by the upper atmosphere—especially at night. These reflected signals can interfere with those received directly from the radio station, causing the radio station to sound alternately strong and weak.

Station interference—When a reflected signal and a signal received directly from a radio station are very nearly the same frequency, they can interfere with each other, making it difficult to hear the broadcast.

Static—AM is easily affected by external sources of electrical noise, such as high tension power lines, lightning, or electrical motors. This results in static.

CARING FOR YOUR CASSETTE PLAYER AND TAPES

For the best performance for your cassette player and tapes:

Clean the tape head and other parts regularly.

- A dirty tape head or tape path can decrease sound quality and tangle your cassette tapes. The easiest way to clean them is by using a cleaning tape. (A wet type is recommended.)

Use high-quality cassettes.

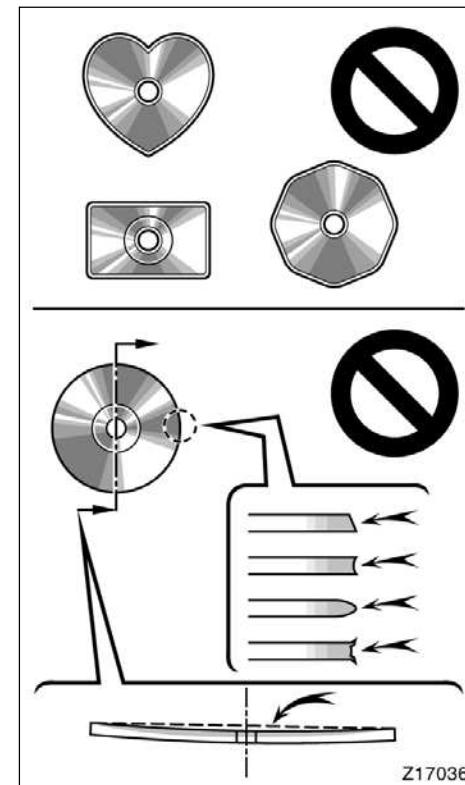
- Low-quality cassette tapes can cause many problems, including poor sound, inconsistent playing speed, and constant auto-reversing. They can also get stuck or tangled in the cassette player.
- Do not use a cassette if it has been damaged or tangled or if its label is peeling off.
- Do not leave a cassette in the player if you are not listening to it, especially if it is hot outside.
- Store cassettes in their cases and out of direct sunlight.
- Avoid using cassettes with a total playing time longer than 100 minutes (50 minutes per side). The tape used in these cassettes is thin and could get stuck or tangled in the cassette player.



**CARING FOR YOUR COMPACT DISC
PLAYER AND DISCS**

- Use only compact discs labeled as shown above. CD-R (CD-Recordable), CD-RW (CD-Re-writable) and personal computer use CD-ROMs may not be playable on your compact disc player.
- Your compact disc player is intended for use with 12cm (4.7 in.) discs only.
- Extremely high temperatures can keep your compact disc player from working. On hot days, use the air conditioning to cool the vehicle interior before you listen to a disc.
- Bumpy roads or other vibrations may make your compact disc player skip.

- If moisture gets into your compact disc player, you may not hear any sound even though your compact disc player appears to be working. Remove the disc from the player and wait until it dries.



- Your automatic changer or compact disc player cannot play special shaped, labeled or low-quality compact discs such as those shown here. Do not use them as the player could be damaged.
- Handle compact discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scrapes, warping, pin holes, or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the compact disc player when you are not listening to them. Store them in their plastic cases away from moisture, heat, and direct sunlight.

To clean a compact disc: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.



SECTION 1 - 8

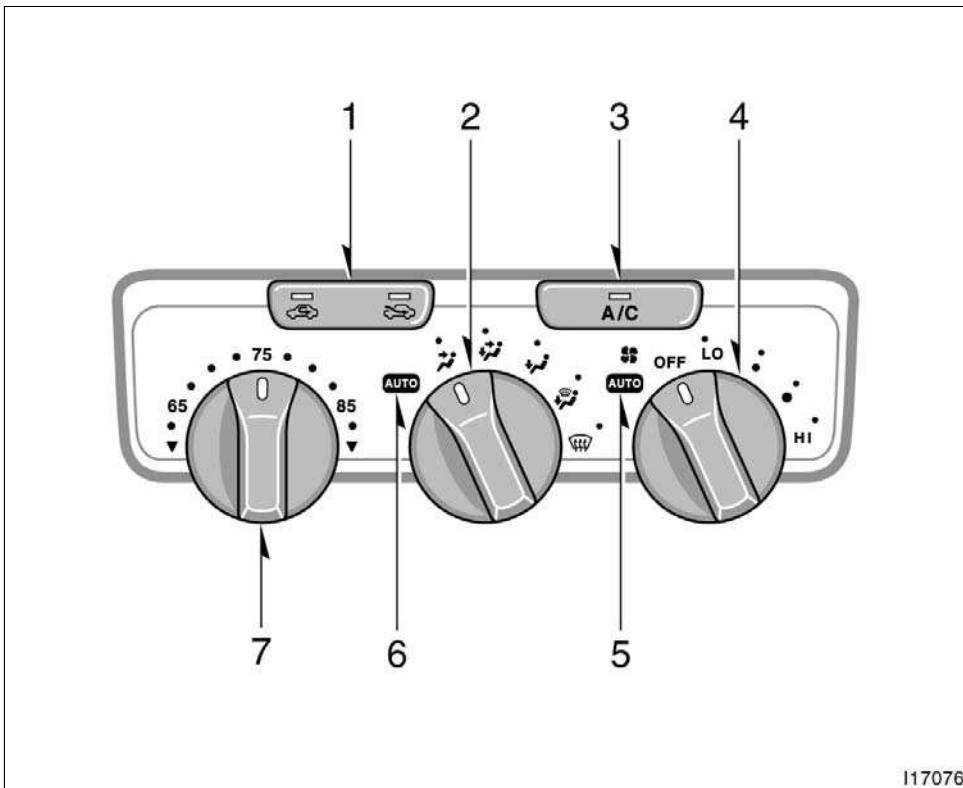
OPERATION OF INSTRUMENTS AND CONTROLS

Air conditioning system

Front air conditioning system:	
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For vehicle equipped with Navigation system, please refer to the separate "Owner's Manual for Navigation System".

**Front air conditioning system—
—Controls**



1. Air intake selector
2. Air flow selector
3. "A/C" button
4. Fan speed selector
5. "AUTO" position (for fan speed)
6. "AUTO" position (for air flow)
7. Temperature selector

I17076

"AUTO" position

For automatic operation of the air conditioning, turn the fan speed and air flow selector knobs to the "AUTO" position.

In the automatic operation mode, the air conditioning selects the most suitable fan speed and air flow according to the temperature.

You may use manual controls if you want to select your own settings.

Fan speed selector

Turn the knob to adjust the fan speed—to the right to increase, to the left to decrease.

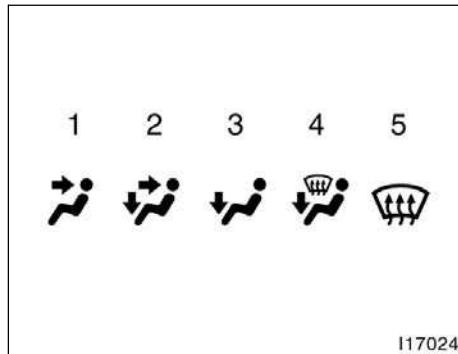
In automatic operation, you do not have to adjust the fan speed unless you desire another fan speed mode.

Turning the fan speed selector knob to "AUTO" position turns on the air conditioning. At this time, the "A/C" button indicator comes on regardless of whether or not the "A/C" button is pressed in.

Temperature selector

Turn the knob to adjust the temperature—to the right to warm, to the left to cool.

In automatic operation, turn the knob to the desired temperature.

**Air flow selector**

Turn the knob to select the vents used for air flow.

In automatic operation, you do not have to select the air flow unless you desire another air flow mode.

1. Panel—Air flows mainly from the instrument panel vents.

2. Bi-level—Air flows from both the floor vents and the instrument panel vents.

3. Floor—Air flows mainly from the floor vents.

It is recommended that you close the lower vent. For details about this, see "Instrument panel vents" described below.

4. Floor/Windshield—Air flows mainly from the floor vents and windshield vents.

It is recommended that you close the lower vent. For details about this, see "Instrument panel vents" described below.

This position allows the air intake to select "Fresh" automatically. This is to clean up the front view more quickly.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

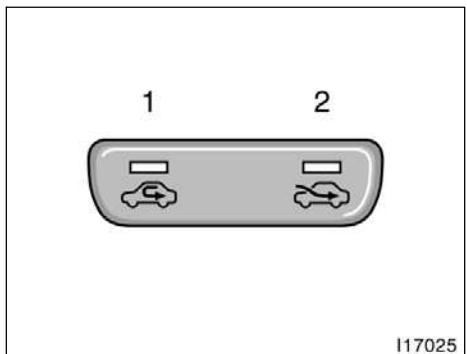
5. Windshield—Air flows mainly from the windshield vents.

It is recommended that you close the lower vent. For details about this, see "Instrument panel vents" described below.

This position allows the air intake to select "Fresh" automatically. This is to clean up the front view more quickly.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

For details about air flow selector settings, see "Air flow selector settings" described below.



"A/C" button

To turn on the air conditioning, press the "A/C" button. The "A/C" button indicator will come on. To turn the air conditioning off, press the button again.

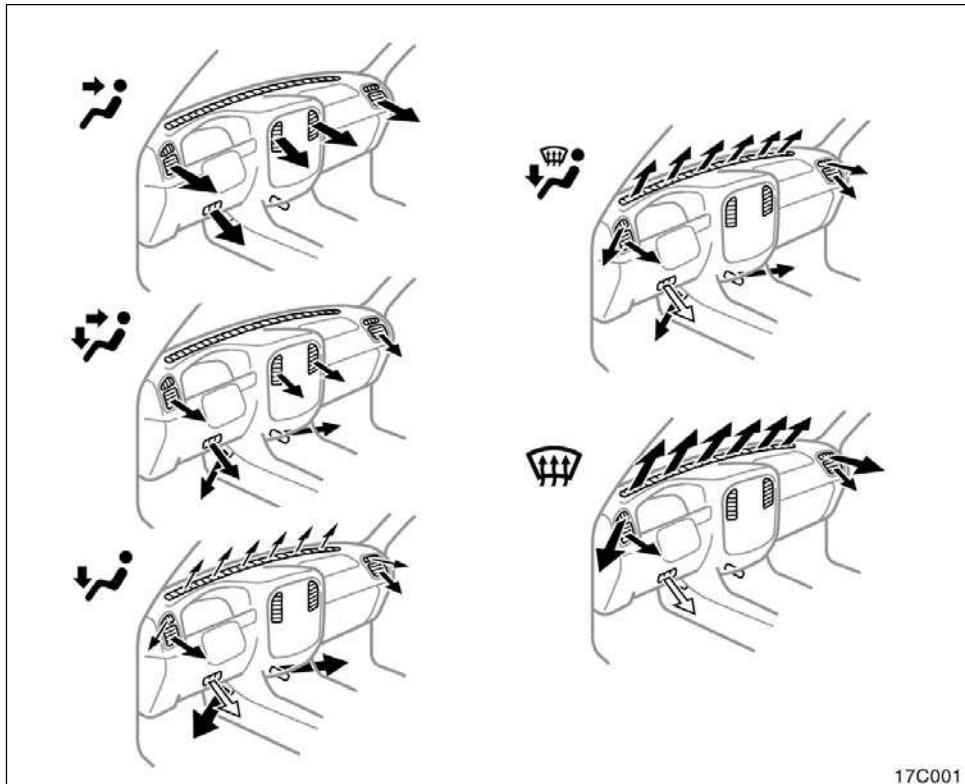
If the "A/C" button indicator flashes, there is a problem in the air conditioning system and the air conditioning automatically shuts off. If this happens, take your vehicle to a Toyota dealer for service.

Air intake selector

Press the button to select the air source. An indicator light will illuminate to show which air intake mode is being selected.

- 1. Recirculate**—Recirculates the air inside the vehicle.
- 2. Fresh**—Draws outside air into the system.

—Air flow selector settings



➡ See "Instrument panel vents" described below.

—Operating tips

- To cool off your Toyota after it has been parked in the hot sun, drive with the windows open for a few minutes. This vents the hot air, allowing the air conditioning to cool the interior more quickly.
- Make sure the air intake grilles in front of the windshield are not blocked (by leaves or snow, for example).
- On humid days, do not blow cold air on the windshield. The windshield could fog up because of the difference in air temperature on the inside and outside of the windshield.
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce the amount of fogging on the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake selector be set to FRESH and the fan speed selector to any setting except "OFF".

- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake selector be temporarily set to RECIRCULATE, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

Heating

For best results, set controls to:

Fan speed —"AUTO"
Temperature —To the desired temperature
Air intake —FRESH (outside air)
Air flow —"AUTO"
Lower vent —CLOSED
Air conditioning —OFF

Turning the fan speed selector knob to "AUTO" position turns on the air conditioning. At this time, the "A/C" button indicator comes on regardless of whether or not the "A/C" button is pressed in.

When the "A/C" button is not pressed in, turning the fan speed selector knob to "OFF" or pressing in the "A/C" button turns off the air conditioning system.

- For quick heating, select recirculated air for a few minutes. To keep the windows from fogging, select fresh after the vehicle interior has been warmed.
- Press the "A/C" button on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

Air conditioning

For best results, set controls to:

Fan speed—"AUTO"
Temperature—To the desired temperature
Air intake—**FRESH** (outside air)
Air flow—"AUTO"

Turning the fan speed selector knob to "AUTO" position turns on the air conditioning. At this time, the "A/C" button indicator comes on regardless of whether or not the "A/C" button is pressed in.

When the "A/C" button is not pressed in, turning the fan speed selector knob to "OFF" or pressing in the "A/C" button turns off the air conditioning system.

- For quick cooling, move the air intake selector to recirculate for a few minutes.

Ventilation

For best results, set controls to:

Fan speed—"AUTO"
Temperature—To the desired temperature
Air intake—**FRESH** (outside air)
Air flow—"AUTO"
Air conditioning—**OFF**

Turning the fan speed selector knob to "AUTO" position turns on the air conditioning. At this time, the "A/C" button indicator comes on regardless of whether or not the "A/C" button is pressed in.

When the "A/C" button is not pressed in, turning the fan speed selector knob to "OFF" or pressing in the "A/C" button turns off the air conditioning system.

Defogging

The inside of the windshield

For best results, set controls to:

Temperature—Towards high temperature to heat; low temperature to cool
Air intake—**FRESH** (outside air)
Air flow—**WINDSHIELD**
Lower vent—**CLOSED**

When turning the air flow control knob to windshield position, the air intake selects "Fresh" automatically. This is to clean up the front view more quickly.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

- On humid days, do not blow cold air on the windshield—the difference between the outside and inside temperatures could make the fogging worse.

Defrosting

The outside of the windshield

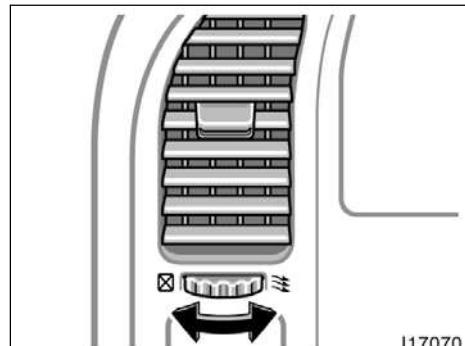
For best results, set controls to:

Temperature—Towards high temperature
Air intake—**FRESH** (outside air)
Air flow—**WINDSHIELD**
Lower vent—**CLOSED**

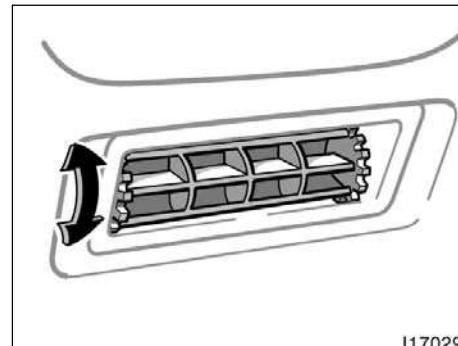
When turning the air flow control knob to windshield position, the air intake selects "Fresh" automatically. This is to clean up the front view more quickly.

Press the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.

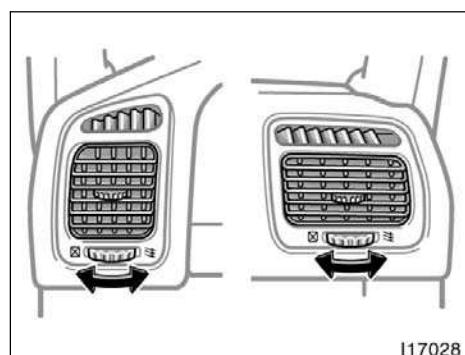
- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

—Instrument panel vents

Center vents



Lower vent

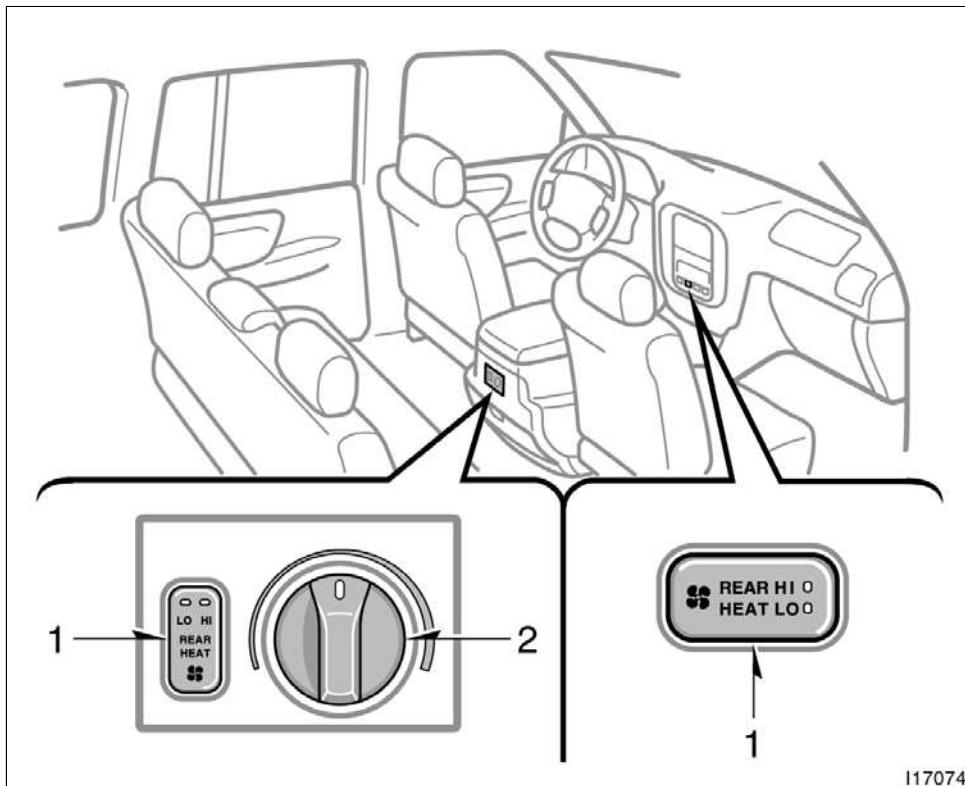


Side vents

If air flow control is not satisfactory, check the instrument panel vents. The instrument panel vents may be opened or closed as shown.

For removing frost or fog, it is recommended that you close the lower vent when you use the "Floor", the "Floor/Windshield" or the "Windshield" mode.

Rear heater system



1. Fan speed selector

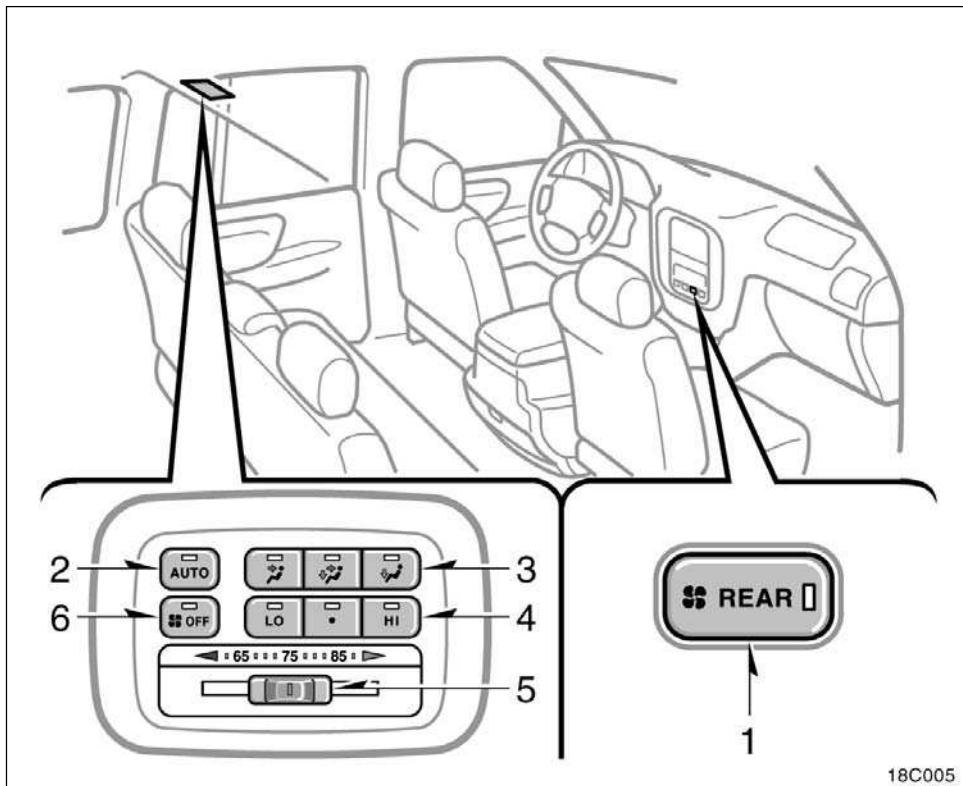
This button is used to turn the rear heater system on and off, and adjust the fan speed.

Pressing the button once adjusts the fan speed to the "LO" mode and twice successively adjusts the fan speed to the "HI" mode.

2. Temperature selector

Turn the knob to adjust the temperature—to the right to warm, to the left to cool.

**Rear air conditioning system—
—Controls**



Rear air conditioning on-off button

To turn the rear air conditioning on, press the "REAR" button. To turn the rear air conditioning off, press the button again.

"AUTO" button

For automatic operation of the rear air conditioning, press the "AUTO" button. An indicator light will illuminate to show that the automatic operation mode has been selected.

In the automatic operation mode, the rear air conditioning selects the most suitable fan speed and air flow according to the temperature.

You may use manual controls if you want to select your own settings.

To turn off the automatic operation, press the "OFF" button.

Fan speed selector

Press the buttons to adjust the fan speed.

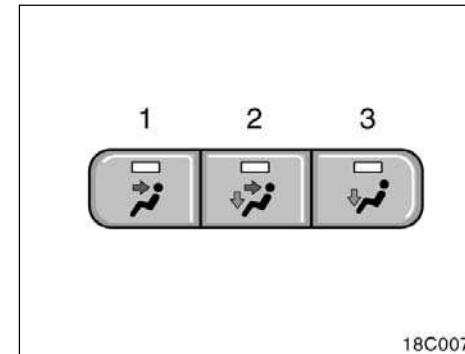
In automatic operation, you do not have to adjust the fan speed unless you desire another fan speed mode.

Temperature selector

Move the lever to adjust the temperature—to the right to warm, to the left to cool.

"OFF" button

Push the button to turn off the rear air conditioning system.



Air flow selector

Press one of the buttons to select the vents used for air flow. An indicator light will illuminate to show which air flow mode is being selected.

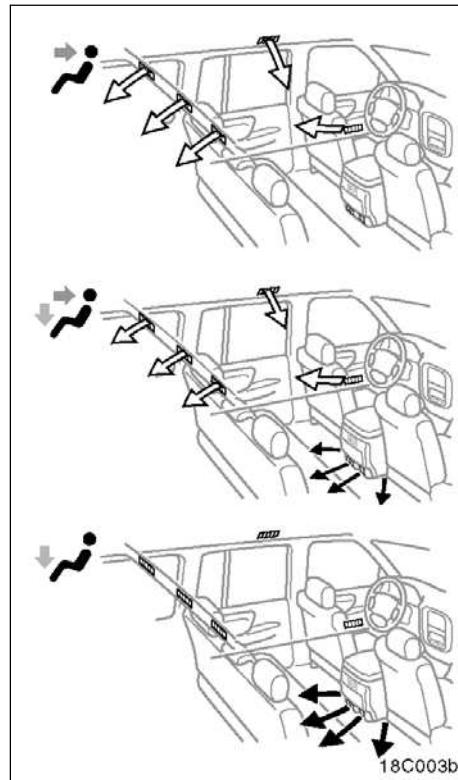
In automatic operation, you do not have to select the air flow unless you desire another air flow mode.

1. **Panel**—Air flows mainly from the roof vents.
2. **Bi-level**—Air flows from both the floor vents and the roof vents.
3. **Floor**—Air flows mainly from the floor vents.

Air at higher than room temperature does not flow from the roof vents.

Air at lower than room temperature does not flow from the floor vents.

—Air flow selector settings



→ Warm air

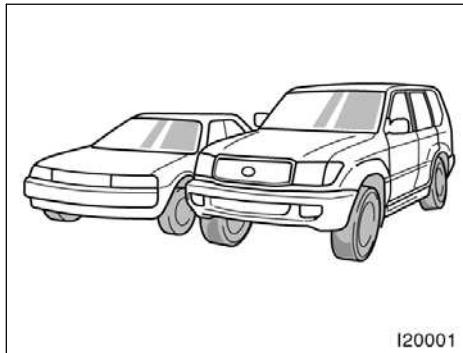
→ Cool air

SECTION 2

INFORMATION BEFORE DRIVING YOUR TOYOTA

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Off-road vehicle precautions



This vehicle belongs to the utility vehicle class, which has higher ground clearance and narrower tread in relation to the height of its center of gravity to make it capable of performing in a wide variety of off-road applications. Specific design characteristics give it a higher center of gravity than ordinary passenger cars. This vehicle design feature causes this type of vehicle to be more likely to rollover. And, utility vehicles have a significantly higher rollover rate than other types of vehicles. 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 ordinary passenger cars any more than low-slung sports cars designed to perform satisfactorily under off-road conditions. Therefore, sharp turns at excessive speeds may cause rollover.

 CAUTION

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

- In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Therefore, the driver and all passengers should fasten their seat belts whenever the vehicle is moving.
- Avoid sharp turns or abrupt maneuvers, if at all possible. Failure to operate this vehicle correctly may result in loss of control or vehicle rollover causing death or serious injury.
- Avoid loading any items on the roof that will raise the vehicle's center of gravity.
- Always slow down in gusty cross-winds. Because of its profile and higher center of gravity, your vehicle is more sensitive to side winds than an ordinary passenger car. Slowing down will allow you to have better control.

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

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 mix-ups, your Toyota has a smaller fuel tank opening. The special nozzle on pumps with unleaded fuel will fit it, but the larger standard nozzle on pumps with leaded gas will not.

At a minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A. and CGSB 3.5-M93 in Canada.

NOTICE

Do not use leaded gasoline. Use of leaded gasoline will cause the three-way catalytic converter to lose its effectiveness, the emission control system to function improperly, and damage to the engine. Also, this can increase maintenance costs.

OCTANE RATING

Select Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

Use of unleaded gasoline with an octane rating or research octane number lower than stated above will cause persistent heavy knocking. If it is severe, this will lead to engine damage.

If your engine knocks...

If you detect heavy knocking even when using the recommended fuel, or if you hear steady knocking while holding a steady speed on level roads, consult your Toyota dealer.

However, now and then, you may notice light knocking for a short time while accelerating or driving up hills. This is no need of concern.

GASOLINE CONTAINING DETERGENT ADDITIVES

Toyota recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.

However, all gasoline sold in the U.S. contains detergent additives to keep clean and/or clean intake systems.

QUALITY GASOLINE

Automotive manufacturers in the U.S., Europe and Japan have developed a specification for quality fuel named World-Wide Fuel Charter (WWFC) that is expected to be applied world wide. The WWFC consists of three categories that depend on required emission levels. In the U.S., category 3 has been adopted. The WWFC improves air quality by providing for better emissions in vehicle fleets, and customer satisfaction through better vehicle performance.

CLEANER BURNING GASOLINE

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE is available in many areas.

Toyota recommends the use of cleaner burning gasoline and appropriately blended reformulated gasoline. These types of gasoline provide excellent vehicle performance, reduce vehicle emissions, and improve air quality.

OXYGENATES IN GASOLINE

Toyota allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE. If you use gasohol in your Toyota, be sure that it has an octane rating no lower than 87.

Toyota does not recommend the use of gasoline containing methanol.

GASOLINE CONTAINING MMT

Some gasoline contain an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Toyota does not recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected. The Malfunction Indicator Lamp on the instrument cluster may come on. If this happens, contact your Toyota dealer for service.

GASOLINE QUALITY

In a very few cases, you may experience driveability problems caused by the particular gasoline that you are using. If you continue to have unacceptable driveability, try changing gasoline brands. If that does not rectify your problem, then consult your Toyota dealer.

NOTICE

- ◆ *Do not use gasohol other than stated above. It will cause fuel system damage or vehicle performance problems.*
- ◆ *If drive ability problems are occur (poor hot starting, vaporizing, engine knock, etc.), discontinue the use.*
- ◆ *Take care not to spill gasohol during refueling. Gasohol may cause paint damage.*

FUEL TANK CAPACITY

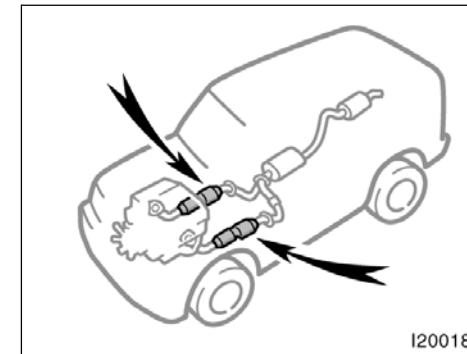
96 L (25.4 gal., 21.1 Imp. gal.)

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 the emission control devices installed in the exhaust system.

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, electric ignition system or fuel system could cause an extremely high three-way catalytic converter temperature.
- ◆ If the engine becomes difficult to start or stalls frequently, take your vehicle in for a check-up as soon as possible. Remember, your Toyota dealer knows your vehicle and its three-way catalytic converter system best.

◆ To ensure that the three-way catalytic converter and the entire emission control system operate properly, your vehicle must receive the periodic inspections required by the Toyota Maintenance Schedule. For scheduled maintenance information, refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

Engine exhaust cautions



CAUTION

- Avoid inhaling the engine exhaust. It contains carbon monoxide, which is a colorless and odorless gas. It can cause unconsciousness or even death.
- Make sure the exhaust system has no holes or loose connections. The system should be checked from time to time. If you hit something, or notice a change in the sound of the exhaust, have the system checked immediately.
- Do not run the engine in a garage or enclosed area except for the time needed to drive the vehicle in or out. The exhaust gases cannot escape, making this a particularly dangerous situation.
- Do not remain for a long time in a parked vehicle with the engine running. If it is unavoidable, however, do so only in an unconfined area and adjust the heating or cooling system to force outside air into the vehicle.

- Keep the back door and quarter windows closed while driving. An open or unsealed back door and quarter windows may cause exhaust gases to be drawn into the vehicle.
- To allow proper operation of your vehicle's ventilation system, keep the inlet grilles in front of the windshield clear of snow, leaves, or other obstructions.
- If you smell exhaust fumes in the vehicle, drive with the windows open and the 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 fuel or moisture, making it appear that the oil level has not changed.

The diluting ingredients evaporate out when the vehicle is then driven at high speeds, as on an expressway, making it appear that oil is excessively consumed after driving at high speeds.

IMPORTANCE OF ENGINE OIL LEVEL CHECK

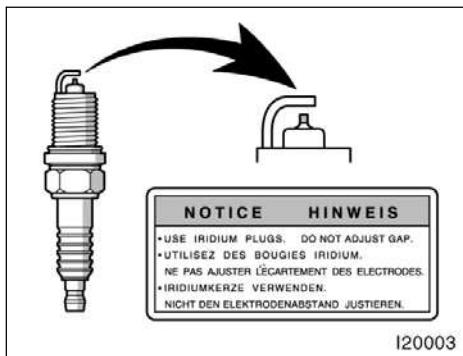
One of the most important points in proper vehicle maintenance is to keep the engine oil at the optimum level so that oil function will not be impaired. Therefore, it is essential that the oil level be checked regularly. Toyota recommends that the oil level be checked every time you refuel the vehicle.

NOTICE

Failure to check the oil level regularly could lead to serious engine trouble due to insufficient oil.

For detailed information on oil level check, see "Checking the engine oil level" in Section 7-2.

Iridium-tipped spark plugs



Your engine is fitted with iridium-tipped spark plugs.

NOTICE

Use only iridium-tipped spark plugs and do not adjust gaps for your engine performance and smooth drivability.

Brake system

BRAKE SYSTEM

This brake system has two independent hydraulic circuits. If either circuit should fail, the other will still work. However, the pedal will be harder to press, and your stopping distance will be longer. Also, the brake system warning light may come on.

CAUTION

Do not drive your vehicle with only a single brake system. Have your brakes fixed immediately.

BRAKE BOOSTER

The brake booster uses brake fluid pressurized by the pump to power-assist the brakes. If the brake booster fails during driving, the brake system warning light comes on and buzzer sound continuously. In this case, the brakes may not work properly. If they do not work well, depress the brake pedal firmly. If the brake system warning light comes on, immediately stop your vehicle and contact your Toyota dealer.

The brake system warning light may stay on for about 60 seconds after the ignition key is turned to "ON" position. It is normal if the light turns off after a while.

Depressing the brake pedal repeatedly may turn on the brake system warning light and buzzer. It is normal if the light turns off and the buzzer stops sounding after a few seconds.

You may hear a small sound in the engine compartment after the engine is started or the brake pedal is depressed repeatedly. This is a pump pulsating sound of the brake system, and it is not a malfunction.

CAUTION

- Do not pump the brake pedal if the engine stalls. Each push on the pedal uses up your brake fluid pressure 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 automatically help prevent lock-up of the wheels during a sudden braking or braking on slippery road surfaces. This assists in providing stability and steering performance of the vehicle under these circumstances.

Effective way to press the ABS brake pedal: When the anti-lock brake system function is in action, you may feel the brake pedal pulsating and hear a noise. In this situation, to let the anti-lock brake system work for you, just hold the brake pedal down more firmly. Do not pump the brake in a panic stop. This will result in reduced braking performance.

The anti-lock brake system becomes operative after the vehicle has accelerated to a speed in excess of approximately 10 km/h (6 mph). It stops operating when the vehicle decelerates to a speed below approximately 5 km/h (3 mph).

Depressing the brake pedal on slippery road surfaces such as on the manhole cover, the steel plate under the construction, joints in the bridge, etc. on a rainy day tends to activate the anti-lock brake system.

You may hear a click or motor sound in the engine compartment for a few seconds when the engine is started or just after the vehicle is started. This means that the anti-lock brake system is in the self check mode, and does not indicate a malfunction.

When the anti-lock brake system is activated, the following conditions may occur. They do not indicate a malfunction of the system:

- You may hear the anti-lock brake system operating and feel the brake pedal pulsating and the vibrations of the body and steering wheel. You may also hear the motor sound in the engine compartment even after the vehicle is stopped.
- At the end of the anti-lock brake system activation, the brake pedal may move a little forward.

! CAUTION

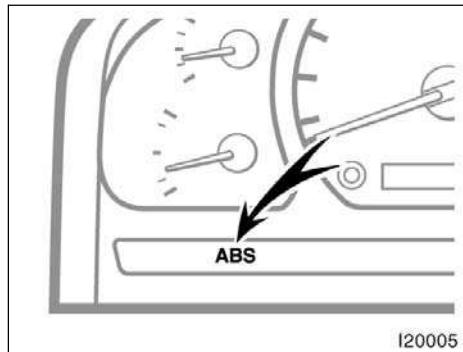
Do not overestimate the anti-lock brake system: Although the anti-lock brake system assists in providing vehicle control, it is still important to drive with all due care and maintain a moderate speed and safe distance from the vehicle in front of you, because there are limits to the vehicle stability and effectiveness of steering wheel operation even with the anti-lock brake system on.

If tires grip performance exceeds its capability, or if hydroplaning occurs during high speed driving in the rain, the anti-lock brake system does not provide vehicle control.

Anti-lock brake system is not designed to shorten the stopping distance: Always drive at the moderate speed and maintain a safe distance from the vehicle in front of you. Compared with vehicles without an anti-lock brake system, your vehicle may require a longer stopping distance in the following cases:

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

Install all 4 tires of specified size at appropriate pressure: The anti-lock brake system detects vehicle speeds using the speed sensors for respective wheels' turning speeds. The use of tires other than specified may fail to detect the accurate turning speed, resulting in a longer stopping distance.



I20005

"ABS" warning light

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

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

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

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

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

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

 **CAUTION**

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

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

Either of the following conditions may occur, but do not indicate the malfunction.

- The light may stay on for about 60 seconds after the ignition key is turned to "ON" position. It is normal if it turns off after a while.
- Depressing the brake pedal repeatedly may turn on the light. It is normal if it turns off after a few seconds.

DRUM-IN-DISC TYPE PARKING BRAKE SYSTEM

Your vehicle has a drum-in-disc type parking brake system. This type of brake system needs bedding-down of the brake shoes periodically or whenever the parking brake shoes and/or drums are replaced.

Have your Toyota dealer perform the bedding-down.

BRAKE ASSIST SYSTEM

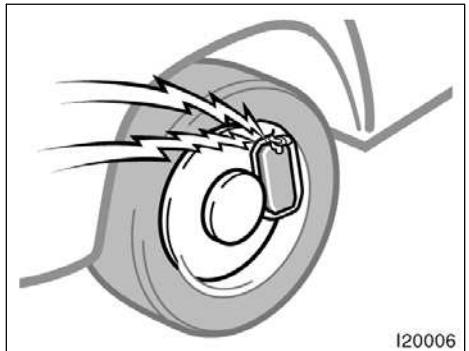
When you slam the brakes on, the brake assist system judges as an emergency stop and provides more powerful braking for a driver who cannot hold down the brake pedal firmly.

When you slam the brakes on, more powerful braking will be applied. At this time, you may hear a sound in the engine compartment and feel the vibrations of the brake pedal. This does not indicate a malfunction.

The brake assist system becomes operative after the vehicle has accelerated to a speed in excess of approximately 10 km/h (6 mph). It stops operating when the vehicle decelerates to a speed below approximately 5 km/h (3 mph).

The brake assist system may not work for about 60 seconds after the engine is started.

For an explanation of this system's warning light, see "Service reminder indicators and warning buzzers" in Section 1-5.

Brake pad wear limit indicators

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 or on 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 the balance.
- For better fuel economy, do not carry unneeded weight.

 **CAUTION**

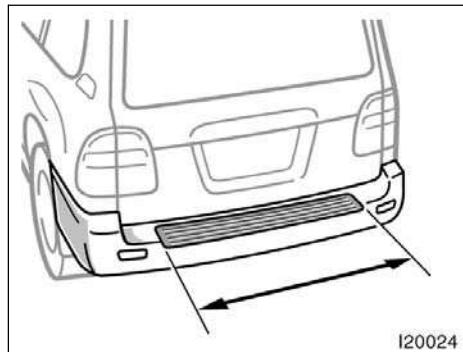
- To prevent luggage or packages from sliding forward during braking, do not stack anything in the luggage compartment higher than the seatbacks.
- Do not place anything on the flattened seat or it may slide forward during braking.

- 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 place anything on the luggage cover. Such items may be thrown about and possibly injure people in the vehicle during sudden braking or an accident. Secure all items in a safe place.
- 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 Section 8.

Rear step bumper



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

To get on the rear step bumper, use the shaded area between the arrows in the illustration.

! 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.

Limited-slip differential

Some Toyotas are equipped with a limited-slip differential. If one of the rear wheels begins to spin, the limited-slip differential is designed to aid traction by automatically transmitting driving force to the other rear wheel. If you are not sure whether your vehicle is equipped with one, you can ask your Toyota dealer.

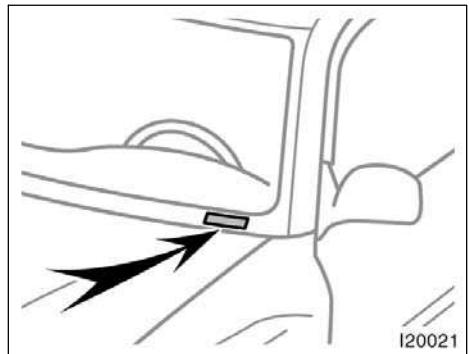
! CAUTION

Do not start or run the engine while your vehicle is supported by a jack. The vehicle could be driven off the jack and could pose a danger or result in serious injury.

NOTICE

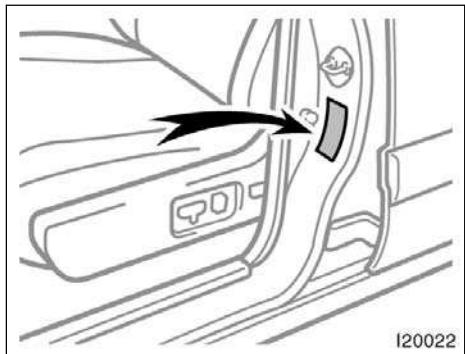
Use only a spare tire of the same size, construction and load capacity as the original tires on your Toyota because damage to the limited-slip differential could possibly occur with another tire type.

Your Toyota's identification—
—Vehicle identification
number



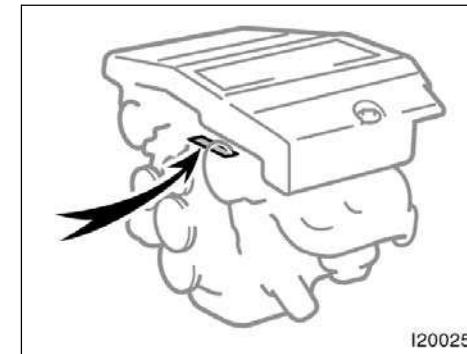
The vehicle identification number (VIN) is the legal identifier for your vehicle. This number is on the left top of the instrument panel, and can be seen through the windshield from outside.

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



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

—Engine number



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

Theft prevention labels

Your new vehicle carries theft prevention labels which are approximately 56 mm (2.20 in.) by 16 mm (0.63 in.).

The purpose of these labels is to reduce the incidence of vehicle thefts by facilitating the tracing and recovery of parts from stolen vehicles. The label is designed so that once it is applied to a surface, any attempt to remove it will result in destroying the integrity of the label. Transferring these labels intact from one part to another, will be impossible.

NOTICE

You should not attempt to remove the theft prevention labels as it may violate certain state or federal laws.

Suspension and chassis

CAUTION

Do not modify the suspension/chassis with lift kits, spacers, springs, etc. It can cause dangerous handling characteristics, resulting in loss of control.

Types of tires

Determine 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.



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SECTION 3

STARTING AND DRIVING

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Before starting the engine

1. Check the area around the vehicle before entering it.
2. Adjust seat position, seatback angle, head restraint height and steering wheel angle.
3. Adjust the 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 Section 4.

Tips for driving in various conditions

NOTICE

- ◆ ***Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.***
- ◆ ***Do not race a cold engine.***
- ◆ ***If the engine becomes difficult to start or stalls frequently, have the engine checked immediately.***

! CAUTION

- Before driving off, make sure the parking brake is fully released and that the parking brake reminder light is off.
- Do not leave your vehicle unattended while the engine is running.
- Do not rest your foot on the brake pedal while driving. It can cause dangerous overheating, needless wear, and poor fuel economy.
- To drive down a long or steep hill, reduce your speed and downshift. Remember, if you ride the brakes excessively, they may overheat and not work properly.
- Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. Sudden acceleration or engine braking could cause the vehicle to spin or skid.

- Always slow down in gusty crosswinds. 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.
- Drive slowly when passing over bumps or travelling on a bumpy road. Otherwise, the impact could cause severe damage to the tires and/or wheels.
- 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 applied. If they still do not work safely, pull to the side of the road and call a Toyota dealer for assistance.

- 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. Clear off any such matter from the underbody. If the vehicle is used with these materials trapped or adhering to the underbody, a breakdown or fire could occur.
- In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Therefore, the driver and all passengers should fasten their seat belts whenever the vehicle is moving.
- When driving off-road or in rugged terrain, do not drive at excessive speeds, jump, make sharp turns, strike objects, etc. This may cause loss of control or vehicle rollover causing death or serious injury. You are also risking expensive damage to your vehicle's suspension and chassis.

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 differentials, 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 rough terrain, sand, mud, or water. For scheduled maintenance information, refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

Winter driving tips

Make sure you have a proper freeze protection of engine coolant.

Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of aluminum components. Use "TOYOTA Long Life Coolant" or equivalent.

See Section 7-2 for details about coolant type selection.

NOTICE

Do not use alcohol type antifreeze or plain water alone.

When it is extremely cold, we recommend to use 60% solution for your Toyota, to provide protection down to about -50°C (-58°F). Do not use more than 70% solution for better coolant performance.

Check the condition of the battery and cables.

Cold temperatures reduce the capacity of any battery, so it must be in top shape to provide enough power for winter starting. Section 7-3 tells you how to visually inspect the battery. Your Toyota dealer and most service stations will be pleased to check the level of charge.

Make sure the engine oil viscosity is suitable for the cold weather.

See Section 7-2 for recommended viscosity. Leaving a heavy summer oil in your vehicle during winter months may cause harder starting. If you are not sure about which oil to use, call your Toyota dealer—he will be pleased to help.

Keep the door locks from freezing.

Squirt lock de-icer or glycerine into the locks to keep them from freezing.

Use a washer fluid containing an anti-freeze solution.

This product is available at your Toyota dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

NOTICE

Do not use engine antifreeze or any other substitute 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.

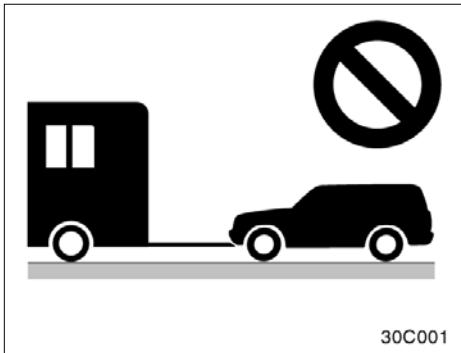
Keep ice and snow from accumulating under the fenders.

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.

Dinghy towing



Your vehicle is not designed to be dinghy towed (with four wheels on the ground) behind a motorhome.

NOTICE

Do not tow your vehicle with four wheels on the ground. This may cause serious damage to your vehicle.

Trailer towing

Your vehicle is designed primarily as a passenger-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

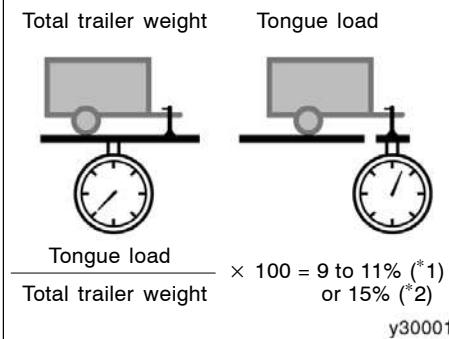
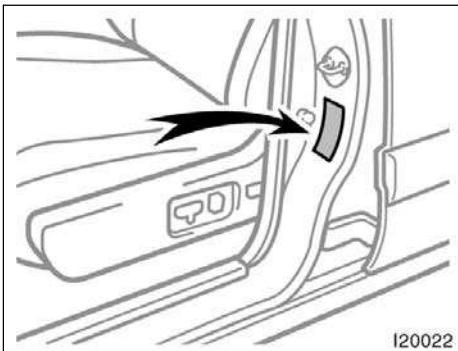
Before towing, make sure the total trailer weight, gross combination weight, gross vehicle weight, gross axle weight and trailer tongue load are all within the limits.

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 maximum gross trailer weight (trailer weight plus cargo weight) must never exceed 2948 kg (6500 lb.). If towing a trailer and cargo weighing over 907 kg (2000 lb.), it is necessary to use a sway control device with sufficient capacity. The combination of the gross trailer weight added to the total weight of the vehicle, occupants and vehicle cargo must never exceed a total of 5625 kg (12400 lb.). Exceeding the maximum weight of the trailer, the vehicle, or the vehicle and trailer combination, can cause an accident resulting in serious personal injuries.

● Trailer hitch assemblies have different weight capacities established by the hitch manufacturer. Even though the vehicle may be physically capable of towing a higher weight, the operator must determine the maximum weight rating of the particular hitch assembly and never exceed the maximum weight rating specified for the trailer-hitch. Exceeding the maximum weight rating set by the trailer hitch manufacturer can cause an accident resulting in serious personal injuries.



- The gross vehicle weight must not exceed the Gross Vehicle Weight Rating (GVWR) indicated on the Certification Label. The gross vehicle weight is the sum of weights of the unloaded vehicle, driver, passengers, luggage, hitch and trailer tongue load. It also includes the weight of any special equipment installed on your vehicle.
- The load on either the front or rear axle resulting from distribution of the gross vehicle weight on both axles must not exceed the Gross Axle Weight Rating (GAWR) listed on the Certification Label.

● The trailer cargo load should be distributed so that the tongue load is 9 to 11% for weight carrying hitch (*1) or 15% for weight distributing hitch (*2) of the total trailer weight, not exceeding the maximum load of the following.

Weight carrying hitch

295 kg (650 lb.)

Weight distributing hitch

442 kg (975 lb.)

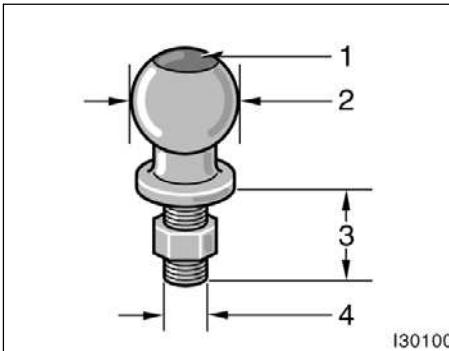
Never load the trailer with more weight in the back than in the front. About 60% of the trailer load should be in the front half of the trailer and the remaining 40% in the rear.

HITCHES

- If you wish to install a trailer hitch, you should consult with your Toyota dealer.
- Use only a hitch recommended by the hitch manufacturer and the one which conforms to the total trailer weight requirement.
- 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 trailer hitch whenever you are not towing a trailer to reduce the possibility of additional damage caused by the hitch if your vehicle is struck from behind. After removing the hitch, seal any mounting holes in the vehicle body to prevent entry of pollutants such as exhaust fumes, dirt, water, etc.

NOTICE

Do not use axle-mounted hitches as they can cause damage to the axle housing, wheel bearings, wheels or tires. Also, never install a hitch which may interfere with the normal function of an Energy Absorbing Bumper, if so equipped.



I30100

1 Trailer ball load rating

2 Ball diameter

3 Shank length

4 Shank diameter

TRAILER BALL

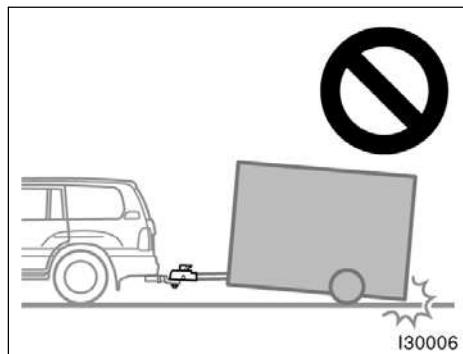
Follow these easy steps to properly determine the correct trailer ball for your application:

1. Determine the correct trailer ball size for the trailer coupler. Most couplers are stamped with the required trailer ball size. The sizes you will most likely find stamped on the coupler are:

Trailer Class Typical Trailer Ball Size

III	2—5/16 in.
II	2 in.
I	1—7/8 in.

2. Select the appropriate trailer ball to match or exceed the gross trailer weight rating of the trailer. The trailer ball load rating should be printed on the top of the ball.
3. When mounted in the ball mount, the threaded ball shank must protrude beyond the bottom of the lock washer and nut at least 2 threads. The trailer ball shank must be matched to the ball mount hole diameter size.

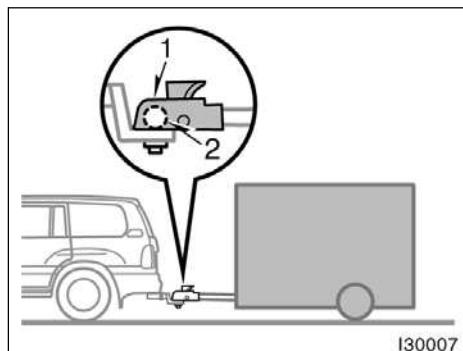


MATCHING TRAILER BALL HEIGHT TO TRAILER COUPLER HEIGHT

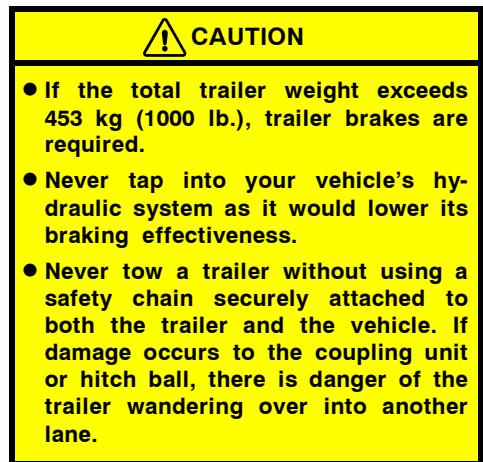
No matter which class of tow hitch applies, for a safe trailer hookup, the trailer ball setup on must be the proper height for the coupler on the trailer.

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.



1 Coupler
2 Trailer ball



TIRES

- Ensure that your vehicle's tires are properly inflated. Adjust the tire pressure indicated below:
Tire pressure, kPa (kgf/cm² or bar, psi)
Front 220 (2.2, 32)
Rear 240 (2.4, 35)
- The trailer tires should be inflated to the pressure recommended by the trailer manufacturer in respect to the total trailer weight.

TRAILER LIGHTS

- Trailer lights must comply with federal, state/provincial and local regulations. See your local recreational vehicle dealer or rental agency for the correct type of wiring and relays for your trailer. Check for correct operation of the turn signals and stop lights each time you hitch up. Direct splicing may damage your vehicle's electrical system and cause a malfunction of your lights.

BREAK-IN SCHEDULE

- Toyota recommends that you do not tow a trailer with a new vehicle or a vehicle with any new power train component (engine, transmission, differential, wheel bearing, etc.) for the first 800 km (500 miles) of driving.

MAINTENANCE

- If you tow a trailer, your vehicle will require more frequent maintenance due to the additional load. For this information, please refer to the scheduled maintenance information in the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".
- Retighten all fixing bolts of the towing ball and bracket after approximately 1000 km (600 miles) of trailer driving.

PRE-TOWING SAFETY CHECK

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

TRAILER TOWING TIPS

When towing a trailer, your vehicle will handle differently than when not towing. The three main causes of vehicle-trailer accidents are driver error, excessive speed and improper trailer loading. Keep these in mind when towing:

- Before starting out, check operation of the lights and all vehicle-trailer connections. After driving a short distance, stop and recheck the lights and connections. Before actually towing a trailer, practice turning, stopping and backing with a trailer in an area away from traffic until you learn the feel.
- 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 Section 4.
- Always place wheel blocks under both the vehicle and trailer wheels when parking. Apply the parking brake firmly. Put the transmission in "P". Avoid parking on a slope with a trailer, but if it cannot be avoided, do so only after performing the following:
 1. Apply the brakes and hold.
 2. Have someone place wheel blocks under both the vehicle and trailer wheels.
 3. When the wheel blocks are in place, release your brakes slowly until the blocks absorb the load.
 4. Apply the parking brake firmly.
 5. Shift into "P" and turn off the engine.

When restarting out after parking on a slope:

1. With the transmission in "P" position, start the engine. Be sure to keep the brake pedal depressed.
2. Shift into the "2", "L" or "R" position.
3. Release the parking brake and brake pedal and slowly pull or back away from the wheel blocks. Stop and apply your brakes.
4. Have someone retrieve the blocks.

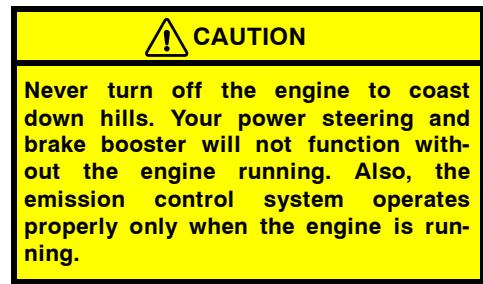
! CAUTION

- Do not exceed 72 km/h (45 mph) or the posted towing speed limit, whichever is lower. Because instability (swaying) of a towing vehicle-trailer combination usually increases as the speed increases, exceeding 72 km/h (45 mph) may cause loss of control.
- Slow down and downshift before descending steep or long downhill grades. Do not make sudden downshifts.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat and result in reduced braking efficiency.

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

Improving fuel economy is easy—just take it easy. It will help make your vehicle last longer, too. Here are some specific tips on how to save money on both fuel and repairs:

- **Keep your tires inflated at the correct pressure.** Underinflation causes tire wear and wastes fuel. See Section 7-2 for instructions.
- **Do not carry unneeded weight in your vehicle.** Excess weight puts a heavier load on the engine, causing greater fuel consumption.
- **Avoid lengthy warm-up idling.** Once the engine is running smoothly, begin driving—but gently. Remember, however, that on cold winter days this may take a little longer.
- **Always keep the automatic transmission overdrive turned on.** Driving with the overdrive off will reduce the fuel economy. (For details, see "Automatic transmission" in Section 1-6.)
- **Accelerate slowly and smoothly.** Avoid jackrabbit starts.
- **Avoid long engine idling.** If you have a long wait and you are not in traffic, it is better to turn off the engine and start again later.
- **Avoid engine over-revving.** Use a gear position suitable for the road on which you are travelling.
- **Avoid continuous speeding up and slowing down.** Stop-and-go driving wastes fuel.
- **Avoid unnecessary stopping and braking.** Maintain a steady pace. Try to time the traffic signals so you only need to stop as little as possible or take advantage of through streets to avoid traffic lights. Keep a proper distance from other vehicles to avoid sudden braking. This will also reduce wear on your brakes.
- **Avoid heavy traffic or traffic jams whenever possible.**
- **Do not rest your foot on the brake pedal.** This causes premature wear, overheating and poor fuel economy.
- **Maintain a moderate speed on highways.** The faster you drive, the greater the fuel consumption. By reducing your speed, you will cut down on fuel consumption.
- **Keep the front wheels in proper alignment.** Avoid hitting the curb and slow down on rough roads. Improper alignment not only causes faster tire wear but also puts an extra load on the engine, which, in turn, wastes fuel.
- **Keep the bottom of your vehicle free from mud, etc.** This not only lessens weight but also helps prevent corrosion.
- **Keep your vehicle tuned-up and in top shape.** A dirty air cleaner, improper valve clearance, dirty plugs, dirty oil and grease, brakes not adjusted, etc. all lower engine performance and contribute to poor fuel economy. For longer life of all parts and lower operating costs, keep all maintenance work on schedule, and if you often drive under severe conditions, see that your vehicle receives more frequent maintenance (For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement").



'02 L/C U (L/O 0108)

SECTION 4

IN CASE OF AN EMERGENCY

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If your vehicle will not start—

(a) Simple checks

Before making these checks, make sure you have followed the correct starting procedure given in "How to start the engine" in Section 3 and that you have sufficient fuel. Also check whether the other keys will start the engine. If they work, your key may be broken. Have the key checked at your Toyota dealer. If none of your keys work, the engine immobiliser system is possibly broken. Call your Toyota dealer. (See "Keys" in Section 1-2.)

If the engine is not turning over or is turning over too slowly—

1. Check that the battery terminals are tight and clean.
2. If the battery terminals are O.K., switch on the interior light.
3. If the light is out, dim or goes out when the starter is cranked, the battery is discharged. You may try jump starting. See "(c) Jump starting" for further instructions.

If the light is O.K., but the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop.

NOTICE

Do not pull- or push-start the vehicle. It may damage the vehicle or cause a collision when the engine starts. Also the three-way catalytic converter may overheat and become a fire hazard.

If the engine turns over at its normal speed but will not start—

1. The engine may be flooded because of repeated cranking. See "(b) Starting a flooded engine" for further instructions.
2. If the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop.

(b) Starting a flooded engine

If the engine will not start, your engine may be flooded because of repeated cranking.

If this happens, turn the key to "START" with the accelerator pedal held down. Keep the key and accelerator pedal 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 30 seconds at a time. This may overheat the starter and wiring systems.

(c) Jump starting

To avoid serious personal injury and damage to your vehicle which might result from battery explosion, acid burns, electrical burns, or damaged electronic components, these instructions must be followed precisely.

If you are unsure about how to follow this procedure, we strongly recommend that you seek the help of a competent mechanic or towing service.

CAUTION

- Batteries contain sulfuric acid which is poisonous and corrosive. Wear protective safety glasses when jump starting, and avoid spilling acid on your skin, clothing, or vehicle.
- If you should accidentally get acid on yourself or in your eyes, remove any contaminated clothing and flush the affected area with water immediately. Then get immediate medical attention. If possible, continue to apply water with a sponge or cloth while en route to the medical office.

- The gas normally produced by a battery will explode if a flame or spark is brought near. Use only standardized jumper cables and do not smoke or light a match while jump starting.

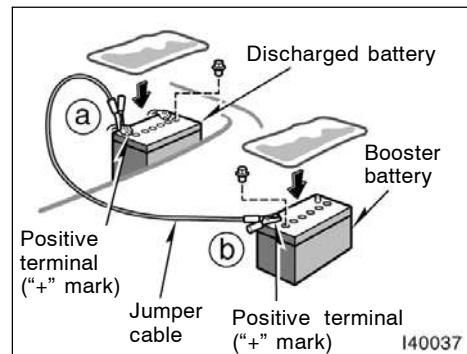
Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

NOTICE

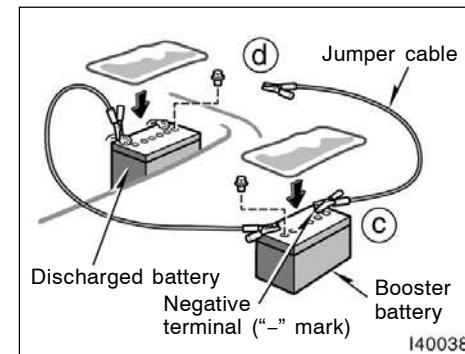
The battery used for boosting must be 12 V. Do not jump start unless you are sure that the booster battery is correct.

JUMP STARTING PROCEDURE

1. If the booster battery is installed in another vehicle, make sure the vehicles are not touching. Turn off all unnecessary lights and accessories.
2. If required, remove all the vent plugs from the booster and discharged batteries. Lay a cloth over the open vents on the batteries. (This helps reduce the explosion hazard, personal injuries and burns.)
3. If the engine in the vehicle with the booster battery is not running, start it and let it run for a few minutes. During jump starting, run the engine at about 2000 rpm with the accelerator pedal lightly depressed.

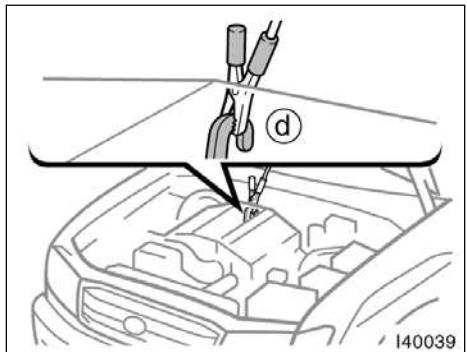


4. Make the cable connections in the order a, b, c, d.
 - a. Connect the clamp of the positive (red) jumper cable to the positive (+) terminal on the discharged battery.
 - b. Connect the clamp at the other end of the positive (red) jumper cable to the positive (+) terminal on the booster battery.



- c. Connect the clamp of the negative (black) jumper cable to the negative (-) terminal on the booster battery.
- d. Connect the clamp at the other end of the negative (black) jumper cable to a solid, stationary, unpainted, metallic point of the vehicle with the discharged battery.

The recommended connecting point is shown in the following illustration:



Connecting point

Do not connect the cable to or near any part that moves when the engine is cranked.

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.

CAUTION

When making the connections, to avoid serious injury, do not lean over the battery or accidentally let the jumper cables or clamps touch anything except the correct battery terminals or the ground.

If you cannot increase the engine speed

If the engine speed does not increase with the accelerator pedal depressed down to about the middle position, there may be a problem somewhere in your electronic throttle control system.

At this time, if you depress the accelerator pedal more firmly and slowly, you can drive your vehicle at low speeds. Have your vehicle checked by your Toyota dealer as soon as possible.

Even if the abnormality of the electronic throttle control system is corrected during low speed driving, the system may not be recovered until the engine is stopped and the ignition key is turned to "ACC" or "LOCK" position.

CAUTION

Be especially careful to prevent erroneous pedal operation.

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.
- Do not put any part of your body under the vehicle supported by the jack. Personal injury may occur.
- Do not start or run the engine while your vehicle is supported by the jack.

- Stop the vehicle on a level firm ground, firmly set the parking brake and put the transmission in reverse. Block the wheel diagonally opposite to the one being changed if necessary.

- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.

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

- Use the jack only for lifting your vehicle during wheel changing.

- Do not raise the vehicle with someone in the vehicle.

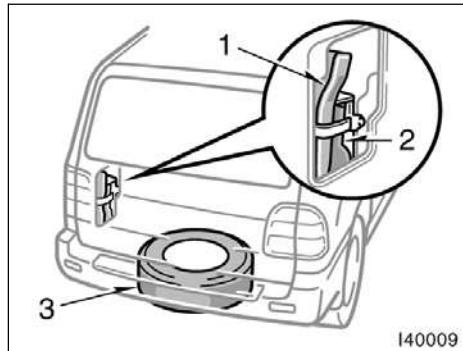
- When raising the vehicle, do not put an object on or under the jack.

- Raise the vehicle only high enough to remove and change the tire.

NOTICE

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

—Required tools and spare tire

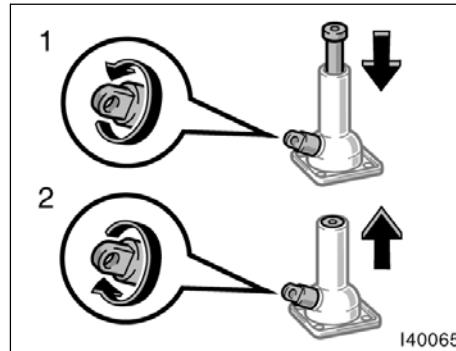


1. Get the required tools and spare tire.

- 1 Tool bag
- 2 Jack
- 3 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.

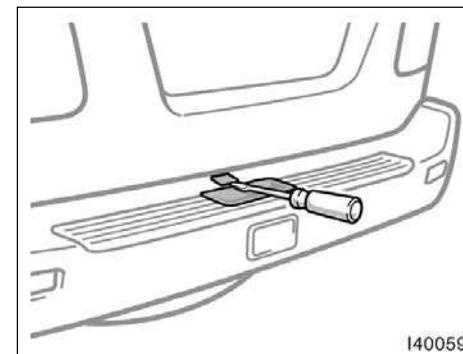
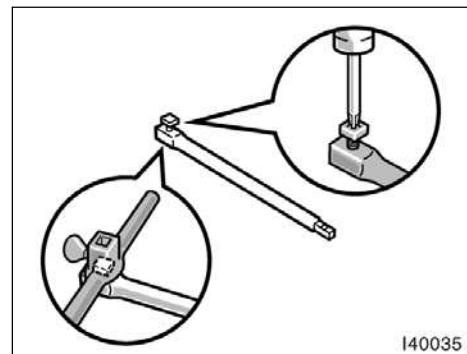
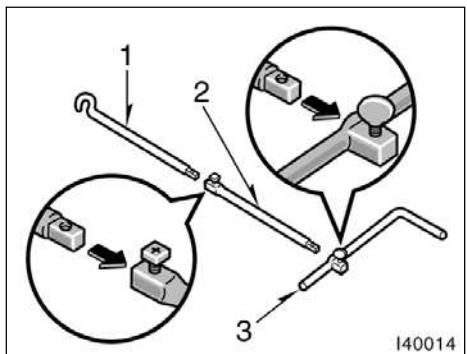
When storing the jack, put it in place and secure to prevent it from flying forward during a collision or sudden braking.



Turn the jack joint by hand.

To remove: Turn the joint in direction 1 until the jack is free.

To store: Turn the joint in direction 2 until the jack is firmly secured to prevent it flying forward during a collision or sudden braking.



To remove the spare tire under the luggage compartment:

1. Put a jack handle, jack handle extensions and jack handle end together as shown in the illustration.
- 1 Jack handle end
2 Jack handle extension
3 Jack handle

CAUTION

Make sure they are each securely fixed with screws.

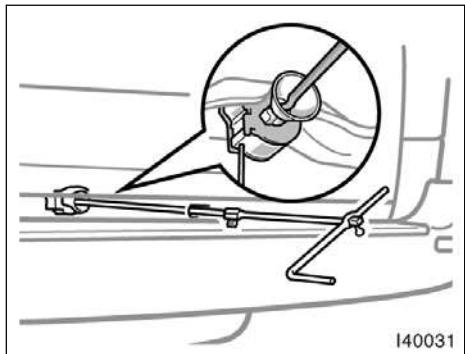
NOTICE

Tighten all the joints securely. Otherwise, the extension may come off and it may damage the paint or vehicle body.

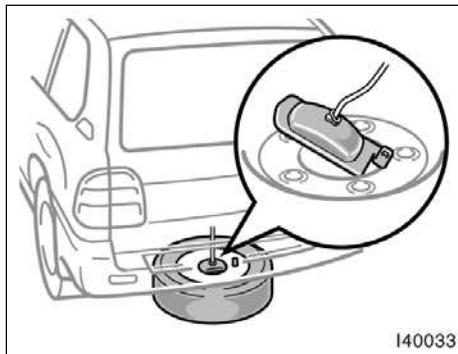
2. Remove the access hole cover on the rear bumper with a flat-bladed screwdriver.

To protect the paint, place several sheets of paper over the paintwork.

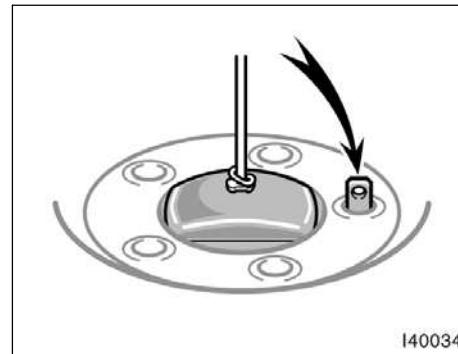
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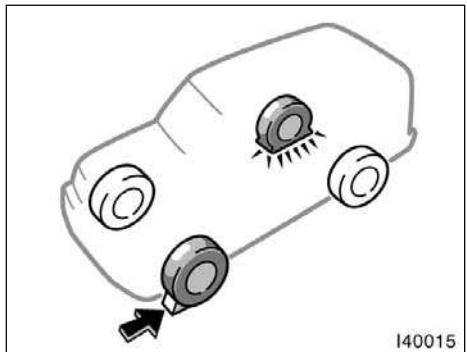
3. Insert the jack handle end into the lowering screw through the access hole and turn it counterclockwise with pushing it to the front lightly.

4. After the tire is lowered completely to the ground, remove the holding bracket as shown in the illustration.

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

Check the tire from the side to see that the tire is stored horizontally.

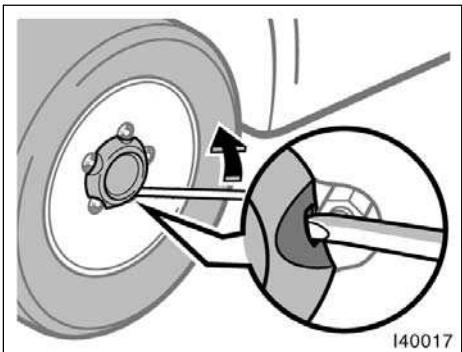
—Blocking the wheel



2. Block the wheel diagonally opposite the flat tire to keep the vehicle from rolling when it is jacked up.

When blocking the wheel, place a wheel block from the front for the front wheels or from the rear for the rear wheels.

—Removing wheel ornament



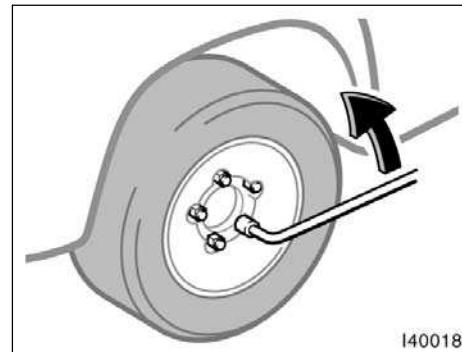
3. Remove the wheel ornament.

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

 CAUTION

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

—Loosening wheel nuts



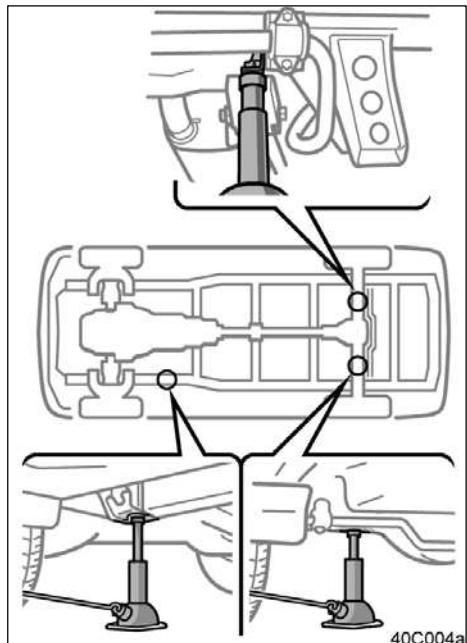
4. Loosen all the wheel nuts.

Always loosen the wheel nuts before raising the vehicle.

Turn the wheel nuts counterclockwise to loosen. To get maximum leverage, fit the wrench to the nut so that the handle is on the right side, as shown above. Grab the wrench near the end of the handle and pull up on the handle. Be careful that the wrench does not slip off the nut.

Do not remove the nuts yet—just unscrew them about one-half turn.

—Positioning the jack

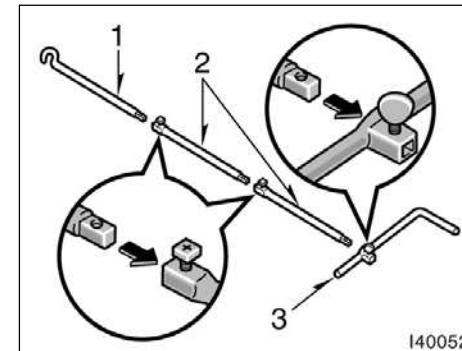


5. Position the jack at the correct jack point as shown.

JACK POINTS:

Front—Under the frame side rail
Left rear—Under the rear axle housing
Right rear—Under the bracket on the rear axle housing

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

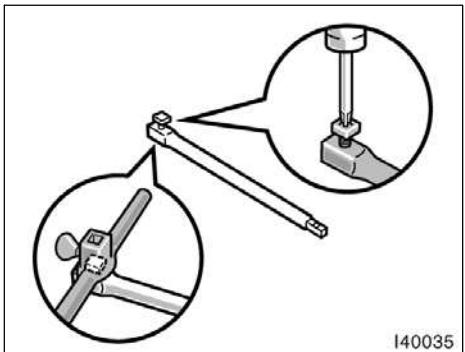


Put a jack handle, jack handle extensions, and jack handle end together as shown in the illustration.

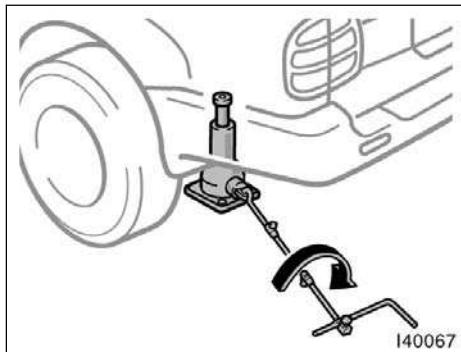
- 1 Jack handle end
- 2 Jack handle extensions
- 3 Jack handle

CAUTION

Make sure they are each securely fixed with screws.

—Raising your vehicle

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When connecting a jack handle extension with another extension and a jack handle end, use a Phillips-head screwdriver or jack handle to tighten the bolts on the joints as shown in the illustration. When connecting the jack handle with extension, tighten the wing bolt on the jack handle securely. Make sure the hollow meets the bolt on any joint when you tighten the bolts.

NOTICE

Tighten all the joints securely. Otherwise, the extension may come off and it may damage the paint or vehicle body.

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

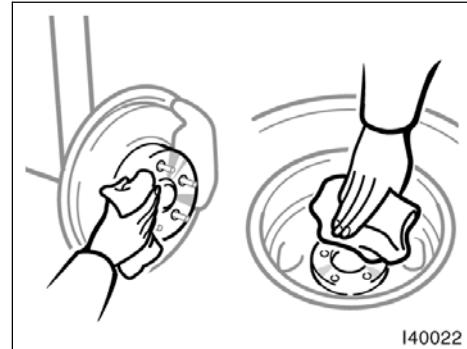
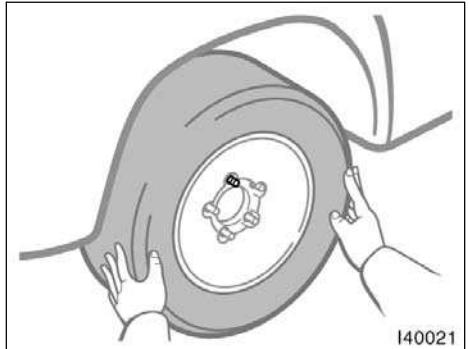
Remember you will need more ground clearance when putting on the spare tire than when removing the flat tire.

To raise the vehicle, insert the jack handle end into the joint of 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 end. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.

CAUTION

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

—**Changing wheels**



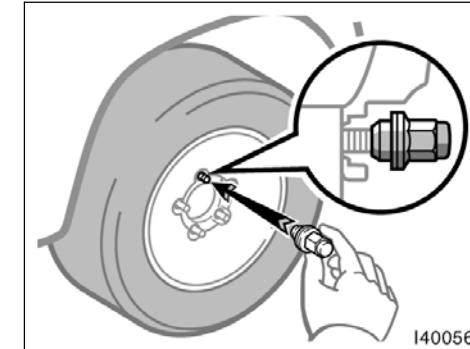
7. Remove the wheel nuts and change tires.

Lift the flat tire straight off and put it aside.

Roll the spare wheel into position and align the holes in the wheel with the bolts. Then lift up the wheel and get at least the top bolt started through its hole. Wiggle the tire and press it back over the other bolts.

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

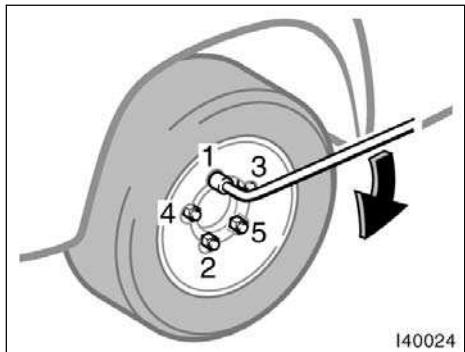
—**Reinstalling wheel nuts**



8. Reinstall all the wheel nuts finger tight.

Reinstall the wheel nuts (tapered end inward) and tighten them as much as you can by hand. Press back on the tire and see if you can tighten them more.

—Lowering your vehicle



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

Turn the jack handle extension counter-clockwise with handle to lower the vehicle, making sure the handle remains firmly fitted onto the jack handle extension.

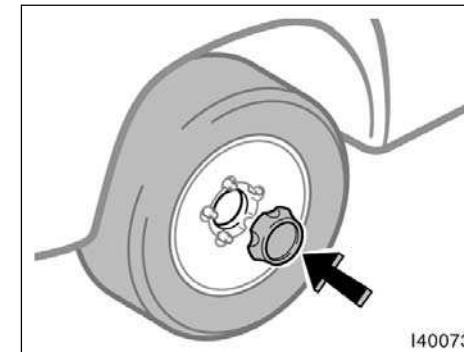
Use only the wheel nut wrench and turn it clockwise to tighten the nuts. Do not use other tools or any additional leverage other than your hands, such as a hammer, pipe or your foot. Make sure the wrench is securely engaged over the nut.

Tighten each nut a little at a time in the order shown. Repeat the process until all the nuts are tight.

CAUTION

When lowering the vehicle, make sure all portions of your body and all other persons around will not be injured as the vehicle is lowered to the ground.

—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 Section 8. If the pressure is lower, drive slowly to the nearest service station and fill to the correct pressure.

Do not forget to reinstall the tire inflation valve cap as dirt and moisture could get into the valve core and possibly cause air leakage. If the cap is missing, have a new one put on as soon as possible.

12. Restow all the tools, jack and flat tire securely.

As soon after changing wheels as possible, tighten the wheel nuts to the torque specified in Section 8 with a torque wrench. Have a technician repair the flat tire.

This is the same procedure for changing or rotating your tires.

 **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) Towing with wheel lift type truck—**

—From front



—From rear

**(b) Using flat bed truck**

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If towing is necessary, we recommend you have it done by your Toyota dealer or a commercial tow truck service. In consultation with them, have your vehicle towed using either (a) or (b).

Only when you cannot receive a towing service from a Toyota dealer or commercial tow truck service, tow your vehicle carefully in accordance with the instructions given in "—Emergency towing" in this section.

Proper equipment will help ensure that your vehicle is not damaged while being towed. Commercial operators are generally aware of the state/provincial and local laws pertaining to towing.

Your vehicle can be damaged if it is towed incorrectly. Although most operators know the correct procedure, it is possible to make a mistake. To avoid damage to your vehicle, make sure the following precautions are observed. If necessary, show this page to the tow truck driver.

TOWING PRECAUTIONS:

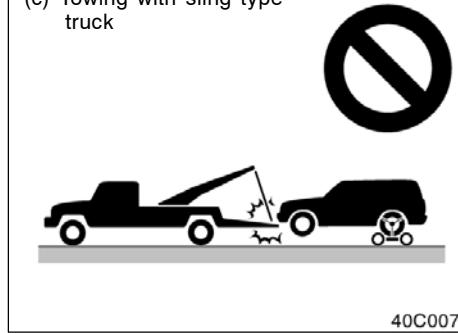
Use a safety chain system for all towing, and abide by the state/provincial and local laws. The wheels and axle on the ground must be in good condition. If they are damaged, use a towing dolly.

(a) Towing with wheel lift type truck

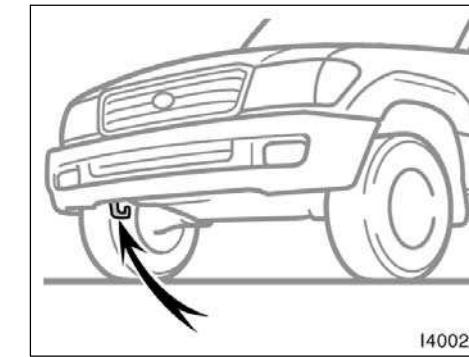
Use a towing dolly under the wheels not lifted by the truck.

(b) Using flat bed truck

(c) Towing with sling type truck

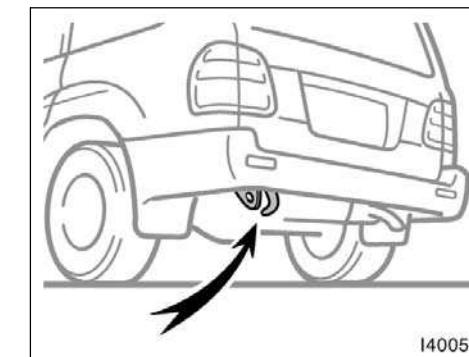
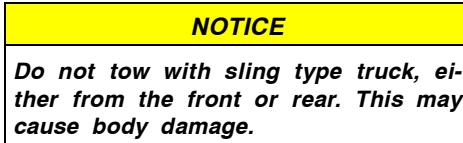


—Emergency towing



Front

(c) Towing with sling type truck



Rear

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

If towing service is not available in an emergency, your vehicle may be temporarily towed by a cable or chain secured to one of the following parts:

Front: Front emergency towing hook
Rear: Rear emergency towing hook

Use extreme caution when towing the vehicle.

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.

 CAUTION

Use extreme caution when towing vehicle. Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing hook and towing cable or chain. The hook and towing cable or chain may break and cause serious injury or damage.

 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.

NOTICE

- ◆ *Do not use front and rear eyelets. It is not designed for towing.*
- ◆ *Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing hook provided.*

Before towing, release the parking brake and put the transmission in "N". Unlock the center differential. The key must be in "ACC" (engine off) or "ON" (engine running).

—Emergency towing hook precautions

- Before emergency towing, check that the hook is not broken or damage and that the installation bolts are not loose.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.
- To avoid damaging the hook, do not pull from the side or at a vertical angle. Always pull straight ahead.

CAUTION

If the emergency towing hook is used to get out when your vehicle becomes struck in mud, sand or other condition from which the vehicle cannot be driven out under its own power, make sure to observe the precautions mentioned below. Otherwise, excessive stress will be put on the hook and the towing cable or chain may break, causing serious injury or damage.

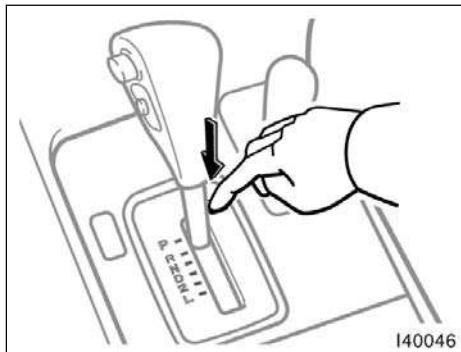
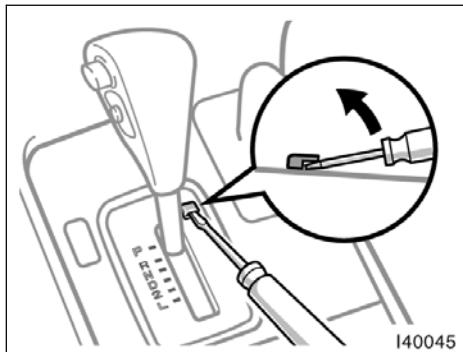
- If the towing vehicle can hardly move, do not forcibly continue the towing. Contact your Toyota dealer or a commercial tow truck service for assistance.
- Tow the vehicle as straight ahead as possible.
- Keep away from the vehicle during towing.

—Tips for towing a stuck vehicle

The following methods are effective to use when your vehicle is stuck in the mud, sand or other condition from which the vehicle cannot be driven out under its own power. Use extreme caution when towing the vehicles. In addition, keep away from the vehicles and towing cable or chain when towing.

- Remove the sand soil in the front and the back of the tires.
- Place stones or wood under the tires.

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 applied.
2. Pry up the cover with a flat-bladed screwdriver or equivalent.

3. Insert your finger into the hole to push down the shift lock override button. You can shift out of "P" position only while pushing the button.
4. Shift into "N" position.
5. Reinstall the cover.
6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Toyota dealer as soon as possible.

If you lose your keys

You can purchase a new key at your Toyota dealer if you can give them the key number and master key.

Even if you lose only one key, contact your Toyota dealer to make a new key. If you lose all your master keys, you cannot make new keys; the whole engine immobiliser system must be replaced.

See the suggestion given in "Keys" in Section 1-2.

You can use the wireless remote control system with the new key. Contact your Toyota dealer for detailed information.

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.

SECTION 5

CORROSION PREVENTION AND APPEARANCE CARE

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Protecting your Toyota from corrosion

Toyota, through its diligent research, design and use of the most advanced technology available, has done its part to help prevent corrosion and has provided you with the finest quality vehicle construction. Now, it is up to you. Proper care of your Toyota can help ensure long-term corrosion prevention.

The most common causes of corrosion to your vehicle are:

- The accumulation of road salt, dirt and moisture in hard-to-reach areas under the vehicle.
- Chipping of paint, or undercoating caused by minor accidents or by stones and gravel.

Care is especially important if you live in particular areas or operate your vehicle under certain environmental conditions:

- Road salt or dust control chemicals will accelerate corrosion, as will the presence of salt in the air near the sea-coast or in areas of industrial pollution.
- High humidity accelerates corrosion especially when temperatures range just above the freezing point.

- Wetness or dampness to certain parts of your vehicle for an extended period of time, may cause corrosion even though other parts of the vehicle may be dry.
- High ambient temperatures can cause corrosion to those components of the vehicle which are prevented from quick-drying due to lack of proper ventilation.

The above signifies the necessity to keep your vehicle, particularly the underside, as clean as possible and to repair any damage to paint or protective coatings as soon as possible.

To help prevent corrosion on your Toyota, follow these guidelines:

Wash your vehicle frequently. It is, of course, necessary to keep your vehicle clean by regular washing, but to prevent corrosion, the following points should be observed:

- If you drive on salted roads in the winter or if you live near the ocean, you should hose off the undercarriage at least once a month to minimize corrosion.

- High pressure water or steam is effective for cleaning the vehicle's underside and wheel housings. Pay particular attention to these areas as it is difficult to see all the mud and dirt. It will do more harm than good to simply wet the mud and debris without removing them. The lower edge of doors, rocker panels and frame members have drain holes which should not be allowed to clog with dirt as trapped water in these areas can cause corrosion.

- Wash the underside of the vehicle thoroughly when winter is over.

See "Washing and waxing your Toyota" for more tips.

Check the condition of your vehicle's paint and trim. If you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through the bare metal, have a qualified body shop make the repair.

Check the interior of your vehicle. Water and dirt can accumulate under the floor mats and could cause corrosion. Occasionally check under the mats to make sure the area is dry. Be particularly careful when transporting chemicals, cleansers, fertilizers, salt, etc.; these should be transported in proper containers. If a spill or leak should occur, immediately clean and dry the area.

Use mud shields on your wheels. If you drive on salted or gravel roads, mud shields help protect your vehicle. Full-size shields, which come as near to the ground as possible, are the best. We recommend that the fittings and the area where the shields are installed be treated to resist corrosion. Your Toyota dealer will be happy to assist in supplying and installing the shields if they are recommended for your area.

Keep your vehicle in a well ventilated garage or a roofed place. Do not park your vehicle in a damp, poorly ventilated garage. If you wash your vehicle in the garage, or if you drive it in covered with water or snow, your garage may be so damp it will cause corrosion. Even if your garage is heated, a wet vehicle can corrode if the ventilation is poor.

Washing and waxing your Toyota

Washing your Toyota

Keep your vehicle clean by regular washing.

The following cases may cause weakness to the paint or corrosion to the body and parts. Wash your vehicle as soon as possible.

- When driving in a coastal area
- When driving on a road sprinkled with antifreeze
- When having coal tar, tree sap, bird droppings and carcass of an insect
- When driving in the areas where there is a lot of smoke, soot, dust, iron dust and chemical substance
- When the vehicle becomes remarkably dirty with dust and mud

Hand-washing your Toyota

Work in the shade and wait until the vehicle body is not hot to the touch.

CAUTION

When cleaning under floor or chassis, be careful not to injure your hands.

1. Rinse off loose dirt with a hose. Remove any mud or road salt from the underside of the vehicle or in the wheel wells.

2. Wash with a mild car-wash soap, mixed according to the manufacturer's instructions. Use a soft cotton mitt and keep it wet by dipping it frequently into the wash water. Do not rub hard—let the soap and water remove the dirt.

Plastic wheel ornaments: The plastic wheel ornaments are damaged easily by organic substances. If any organic substances splashes an ornament, be sure to wash it off with water and check if the ornament is damaged.

CAUTION

Do not attach the heavily damaged plastic wheel ornament. It may fly off the wheel and cause accidents while the vehicle is moving.

Aluminum wheels: Use only a mild soap or neutral detergent.

Plastic bumpers: Wash carefully. Do not scrub with abrasive cleaners. The bumper faces are soft.

Road tar: Remove with turpentine or cleaners that are marked safe for painted surfaces.

NOTICE

Do not use organic substances (gasoline, kerosene, benzine or strong solvents) which may be toxic or cause damage.

3. Rinse thoroughly—dried soap can cause streaking. In hot weather you may need to rinse each section right after you wash it.
4. To prevent water spots, dry the vehicle using a clean soft cotton towel. Do not rub or press hard—you might scratch the paint.

Automatic car wash

Your vehicle may be washed in an automatic car wash, but remember that the paint can be scratched by some type of brushes, unfiltered washing water, or the washing process itself. Scratching reduces paint durability and gloss, especially on darker colors. The manager of the car wash should be able to advise you whether the process is safe for the paint on your vehicle.

NOTICE

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

Waxing your Toyota

Polishing and waxing is recommended to maintain the original beauty of your Toyota's finish.

Once a month or if the vehicle surface does not repel water well, apply wax.

1. Always wash and dry the vehicle before you begin waxing, even if you are using a combined cleaner and wax.
2. Use a good quality polish and wax. If the finish has become extremely weathered, use a car-cleaning polish, followed by a separate wax. Carefully follow the manufacturer's instructions and precautions. Be sure to polish and wax the chrome trim as well as the paint.
3. Wax the vehicle again when water does not bead but remains on the surface in large patches.

NOTICE

Always remove the plastic bumpers if your vehicle is re-painted and placed in a high heat paint waxing booth. High temperatures could damage the bumpers.

Cleaning the interior

! CAUTION

Do not wash the vehicle floor with water, or allow water to get onto the floor when cleaning the vehicle interior or exterior. Water may get into audio components or other electrical components above or under the floor carpet (or mat) and cause a malfunction; and it may cause body corrosion.

Vinyl interior

The vinyl upholstery may be easily cleaned with a mild soap or detergent and water.

First vacuum over the upholstery to remove loose dirt. Then, using a sponge or soft cloth, apply the soap solution to the vinyl. After allowing it to soak in for a few minutes to loosen the dirt, remove the dirt and wipe off the soap with a clean damp cloth. If all the dirt do not come off, repeat the procedure. Commercial foaming-type vinyl cleaners are also available which work well. Follow the manufacturer's instructions.

NOTICE

Do not use solvent, thinner, gasoline or window cleaner on the interior.

Carpets

Use a good foam-type shampoo to clean the carpets.

Begin by vacuuming thoroughly to remove as much dirt as possible. Several types of foam cleaners are available; some are in aerosol cans and others are powders or liquids which you mix with water to produce a foam. To shampoo the carpets, use a sponge or brush to apply the foam. Rub in overlapping circles.

Do not apply water—the best results are obtained by keeping the carpet as dry as possible. Read the shampoo instructions and follow them closely.

Seat belts

The seat belts may be cleaned with mild soap and water or with lukewarm water.

Use a cloth or sponge. As you are cleaning, check the belts for excessive wear, fraying, or cuts.

NOTICE

◆ *Do not use dye or bleach on the belts—it may weaken them.*

◆ *Do not use the belts until they become dry.*

Windows

The windows may be cleaned with any household window cleaner.

NOTICE

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

Air conditioning control panel, car audio, instrument panel, console panel, and switches

Use a soft damp cloth for cleaning.

Soak a clean soft cloth in water or lukewarm water then lightly wipe off dirt.

NOTICE

- ◆ ***Do not use organic substances (solvents, kerosene, alcohol, gasoline, etc.) or alkaline or acidic solutions. These chemicals can cause discoloring, staining or peeling of the surface.***
- ◆ ***If you use cleaners or polishing agents, make sure their ingredients do not include the substances mentioned above.***
- ◆ ***If you use a liquid car freshener, do not spill the liquid onto the vehicle's interior surfaces. It may contain the ingredients mentioned above. Immediately clean any spill using the method mentioned above.***

Leather Interior

The leather upholstery may be cleaned with neutral detergent for wool.

Remove dirt using a soft cloth dampened with 5% solution of neutral detergent for wool. Then thoroughly wipe off all traces of detergent with a clean damp cloth.

After cleaning or whenever any part of the leather gets wet, dry with a soft clean cloth. Allow the leather to dry in a ventilated shaded area.

NOTICE

- ◆ ***If a stain should fail to come out with a neutral detergent, apply a cleaner that does not contain an organic solvent.***
- ◆ ***Never use organic substances such as benzine, alcohol or gasoline, or alkaline or acid solutions for cleaning the leather as these could cause discoloring.***
- ◆ ***Use of a nylon brush or synthetic fiber cloth, etc. may scratch the fine grained surface of the leather.***

◆ ***Mildew may develop on soiled leather upholstery. Be especially careful to avoid oil spots. Try to keep your upholstery always clean.***

◆ ***Long exposure to direct sunlight may cause the leather surface to harden and shrink. Keep your vehicle in a shaded area, especially in the summer.***

◆ ***The interior of your vehicle is apt to heat up on hot summer days, so avoid placing on the upholstery items made of vinyl or plastic or containing wax as these tend to stick to leather when warm.***

◆ ***Improper cleaning of the leather upholstery could result in discoloration or staining.***

If you have any questions about the cleaning of your Toyota, your local Toyota dealer will be pleased to answer them.

SECTION 6

VEHICLE MAINTENANCE AND CARE

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For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

Maintenance requirements

Your Toyota vehicle has been designed for fewer maintenance requirements with longer service intervals to save both your time and money. However, each regular maintenance, as well as day-to-day care, is more important than ever before to ensure smooth, trouble-free, safe, and economical driving.

It is the owner's responsibility to make sure the specified maintenance, including general maintenance service, is performed. Note that both the new vehicle and emission control system warranties specify that proper maintenance and care must be performed. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for complete warranty information.

General maintenance

General maintenance items are those day-to-day care practices that are important to your vehicle for proper operation. It is the owner's responsibility to 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 "Scheduled Maintenance Guide" or "Owner's Manual Supplement" are those required to be serviced at regular intervals.

For details of your maintenance schedule, read the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

It is recommended that only genuine Toyota parts be used for maintenance or for the repair of the emission control system.

The owner may elect to use non-Toyota supplied parts for replacement purposes without invalidating the emission control system warranty. However, use of replacement parts which are not of equivalent quality may impair the effectiveness of the emission control systems.

You may also elect to have maintenance, replacement, or repair of the emission control devices and system performed by any automotive repair establishment or individual without invalidating this warranty. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for complete warranty information.

Where to go for service?

Toyota technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They learn to work on Toyotas before they work on your vehicle, rather than while they are working on it.

You can be confident that your Toyota dealer's service department performs the best job to meet the maintenance requirements on your vehicle-reliably and economically.

Your copy of the repair order is proof that all required maintenance has been performed for warranty coverage. And if any problems should arise with your vehicle while under warranty, your Toyota dealer will promptly take care of it. Again, be sure to keep a copy of the repair order for any service performed on your Toyota.

What about do-it-yourself maintenance?

Many of the maintenance items are easy to do yourself if you have a little mechanical ability and a few basic automotive tools. Simple instructions for how to perform them are presented in Section 7.

If you are a skilled do-it-yourself mechanic, the Toyota service manuals are recommended. Please be aware that do-it-yourself maintenance can affect your warranty coverage. See "Owner's Warranty Information Booklet" or "Owner's Manual Supplement" for the details.

General maintenance

Listed below are the general maintenance items that should be performed as frequently as specified. In addition to checking the items listed, if you notice any unusual noise, smell or vibration, you should investigate the cause or take your vehicle to your Toyota dealer or a qualified service shop immediately. It is recommended that any problem you notice be brought to the attention of your dealer or the qualified service shop for their advice.

CAUTION

Make these checks only where adequate ventilation can be obtained if you run the engine.

OUTSIDE THE VEHICLE

Items listed below should be performed from time to time, unless otherwise specified.

Tire pressure

Check the pressure with a gauge every two weeks, or at least once a month. See Section 7-2 for additional information.

Tire surface and wheel nuts

Check the tires carefully for cuts, damage or excessive wear. See Section 7-2 for additional information. When checking the tires, make sure no nuts are missing, and check the nuts for looseness. Tighten them if necessary.

Tire rotation

Rotate the tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".) See Section 7-2 for additional information.

Fluid leaks

Check underneath for leaking fuel, oil, water or other fluid after the vehicle has been parked for a while. If you smell fuel fumes or notice any leak, have the cause found and corrected immediately.

Doors and engine hood

Check that all doors and 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 front seat controls such as seat adjusters, seatback recliner, etc. operate smoothly and that all latches lock securely in any position. Check that the head restraint 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 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 Section 7-3 for additional information.

Engine coolant level

Make sure the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir when the engine is cold. See Section 7-2 for additional information.

Radiator, condenser and hoses

Check that the front of the radiator and condenser are clean and not blocked with leaves, dirt, or insects. See page 247 in Section 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 Section 7-3 for additional information.

Brake fluid level

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

Engine oil level

Check the level on the dipstick with the engine turned off and the vehicle parked on a level spot. See Section 7-2 for additional information.

Power steering fluid level

Check the level through the reservoir. The level should be in the "HOT" or "COLD" range depending on the fluid temperature. See Section 7-2 for additional information.

Exhaust system

If you notice any change in the sound of the exhaust or smell exhaust fumes, have the cause located and corrected immediately. (See "Engine exhaust cautions" in Section 2.)

Does your vehicle need repairing?

Be on the alert for changes in performance, sounds, and visual tip-offs that indicate service is needed. Some important clues are as follows:

- Engine missing, stumbling, or pinging
- Appreciable loss of power
- Strange engine noises
- A fluid leak under the vehicle (however, water dripping from the air conditioning after use is normal.)
- Change in exhaust sound (This may indicate a dangerous carbon monoxide leak. Drive with the windows open and have the exhaust system checked immediately.)
- Flat-looking tire; excessive tire squeal when cornering; uneven tire wear
- Vehicle pulls to one side when driving straight on a level road
- Strange noises related to suspension movement
- Loss of brake effectiveness; spongy feeling brake pedal; 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.

Emissions Inspection and Maintenance (I/M) programs

Some states have vehicle emission inspection programs which include OBD (On-Board Diagnostics) checks.

The OBD system monitors the operation of the emission control system. When the OBD system determines that a problem exists somewhere in the emission control system, the malfunction indicator lamp comes on. In this case, your vehicle may not pass the I/M test and need to be repaired. Contact your Toyota dealer to service the vehicle.

Even if the malfunction indicator lamp does not come on, your vehicle may not pass the I/M test as readiness codes have not been set in the OBD system.

Readiness codes are automatically set during ordinary driving. However, when the battery is disconnected or run down, the codes are erased. Also, depending on your driving habits, the codes may not be completely set.

Also, if the malfunction indicator lamp had come on recently due to temporary malfunction such as a loose fuel tank cap, your vehicle may not pass the I/M test.

The malfunction indicator lamp will go off after taking several driving trips, but the error code in the OBD system will not be cleared unless about 40 trips or more are taken.

If your vehicle does not pass the I/M test even the malfunction indicator lamp does not come on, contact your Toyota dealer to prepare the vehicle for re-testing.

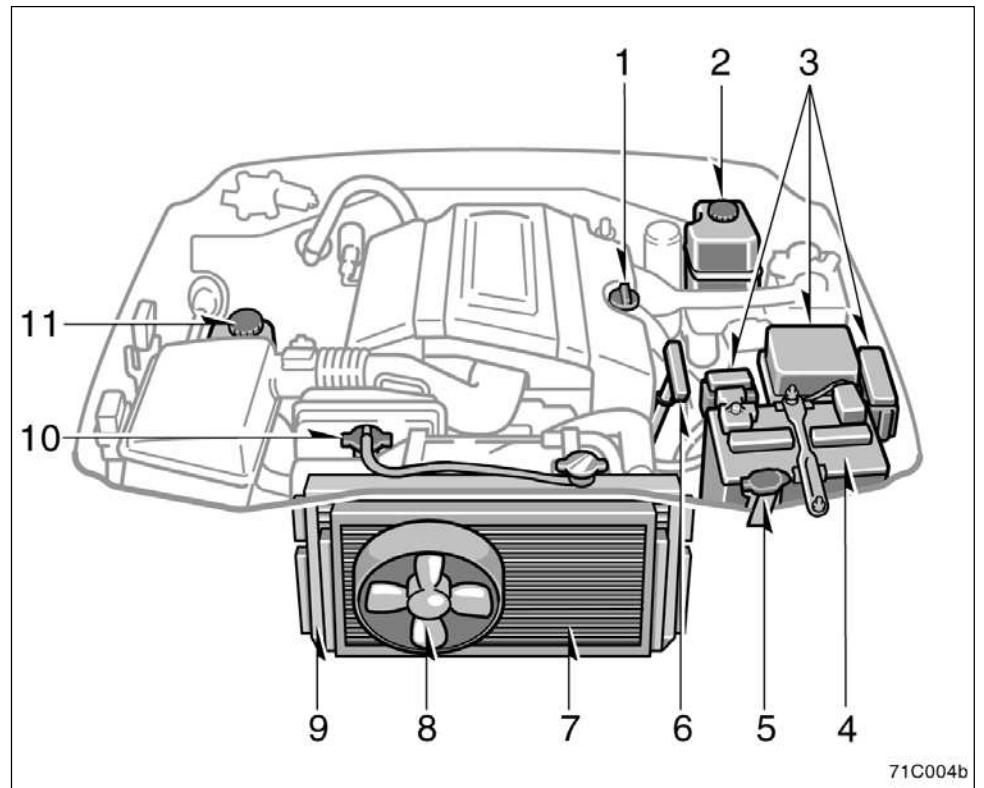
SECTION 7-1

DO-IT-YOURSELF MAINTENANCE

Introduction

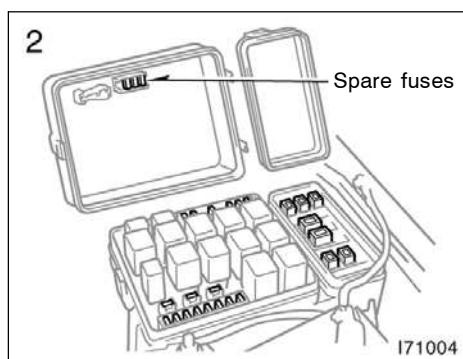
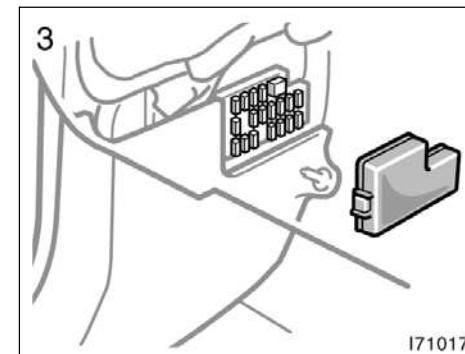
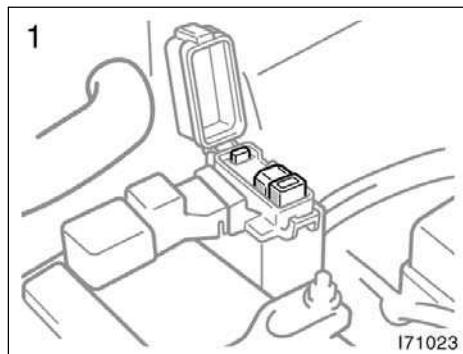
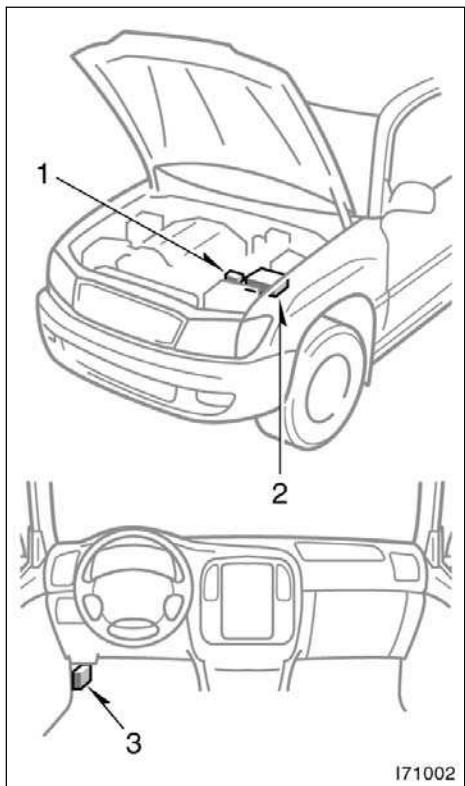
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Engine compartment overview



1. Engine oil filler cap
2. Brake fluid reservoir
3. Fuse blocks
4. Battery
5. Windshield and rear window washer fluid tank
6. Engine oil level dipstick
7. Condenser
8. Electric cooling fan
9. Radiator
10. Engine coolant reservoir
11. Power steering fluid reservoir

Fuse locations



Do-it-yourself service precautions

If you perform maintenance by yourself, be sure to follow the correct procedure given in this section.

You should be aware that improper or incomplete servicing may result in operating problems.

Performing do-it-yourself maintenance during the warranty period may affect your warranty coverage. Read the separate Toyota Warranty statement for details and suggestions.

This part gives instructions only for those items that are relatively easy for an owner to perform. As explained in Section 6, there are still a number of items that must be done by a qualified technician with special tools.

For information on tools and parts for do-it-yourself maintenance, see "Parts and tools".

Utmost care should be taken when working on your vehicle to prevent accidental injury. Here are a few precautions that you should be especially careful to observe:

CAUTION

- When the engine is running, keep hands, clothing, and tools away from the moving fan and engine drive belts. (Removing rings, watches, and ties is advisable.)
- Right after driving, the engine compartment—the engine, radiator, exhaust manifold, power steering fluid reservoir and spark plug boots, etc.—will be hot. So be careful not to touch them. Oil, fluids and spark plugs may also be hot.
- If the engine is hot, do not remove the radiator cap or loosen the drain plugs to prevent burning yourself.
- Do not smoke, cause sparks or allow open flames around fuel or the battery. Their fumes are flammable.
- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.
- Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

- Do not get under your vehicle with just the body jack supporting it. Always use automotive jack stands or other solid supports.
- Be sure that the ignition is off if you work near the electric cooling fan or radiator grille. With the ignition on, the electric cooling fan will automatically start to run if the air conditioning is on.
- Use eye protection whenever you work on or under your vehicle where you may be exposed to flying or falling material, fluid spray, etc.
- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact with it. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Do not leave used oil within the reach of children.

- Dispose of used oil and filter only in a safe and acceptable manner. Do not dispose of used oil and filter in household trash, in sewers or onto the ground. Call your dealer or a service station for information concerning recycling or disposal.

NOTICE

- ◆ Remember that battery and ignition cables carry high currents or voltages. Be careful of accidentally causing a short circuit.
- ◆ Add only demineralized or distilled water to fill the radiator. And if you spill some of the coolant, be sure to wash it off with water to prevent it from damaging the parts or paint.
- ◆ Do not allow dirt or anything else to fall through the plug holes.
- ◆ Do not pry the outer electrode of a spark plug against the center electrode.

- ◆ Use only spark plugs of the specified type. Using other types will cause engine damage, loss of performance or radio noise.
- ◆ Do not reuse iridium-tipped spark plugs by cleaning or regapping.
- ◆ Do not overfill automatic transmission fluid, transfer oil and power steering fluid, or the transmission, transfer and power steering could be damaged.
- ◆ Do not drive with the air cleaner filter removed, or excessive engine wear could result. Also backfiring could cause a fire in the engine compartment.
- ◆ Be careful not to scratch the glass surface with the wiper frame.
- ◆ When closing the engine hood, check to see that you have not forgotten any tools, rags, etc.

Parts and tools

Here is a list of parts and tools you will need on performing do-it-yourself maintenance. Remember all Toyota parts are designed in metric sizes, so your tools must be metric.

CHECKING THE ENGINE OIL LEVEL

Parts (if level is low):

- Engine oil API grade SJ "Energy-Conserving", SL "Energy-Conserving" or ILSAC multigrade having viscosity proper for your climate

Tools:

- Rag or paper towel
- Funnel (only for adding oil)

CHECKING THE ENGINE COOLANT LEVEL

Parts (if level is low):

- "TOYOTA Long Life Coolant" or equivalent
See Section 7-2 for details about coolant type selection.
- Demineralized or distilled water

Tools:

- Funnel (only for adding coolant)

CHECKING BRAKE FLUID

Parts (if level is low):

- SAE J1703 or FMVSS No.116 DOT 3
brake fluid

Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

CHECKING POWER STEERING FLUID

Parts (if level is low):

Automatic transmission fluid DEXRON® II or III

Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

CHECKING BATTERY CONDITION

Tools:

- Warm water
- Baking soda
- Grease
- Conventional wrench (for terminal clamp bolts)

CHECKING AND REPLACING FUSES

Parts (if replacement is necessary):

- Fuse with same amperage rating as original

ADDING WASHER FLUID

Parts:

- Water
- Washer fluid containing antifreeze (for winter use)

Tools:

- Funnel

REPLACING LIGHT BULBS

Parts:

- Bulb with same number and wattage rating as original (See charts in "Replacing light bulbs" in Section 7-3.)

Tools:

- Screwdriver

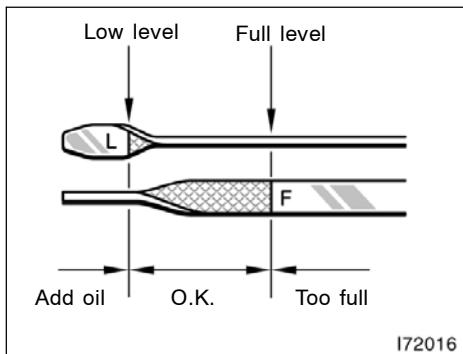
SECTION 7-2

DO-IT-YOURSELF MAINTENANCE

Engine and Chassis

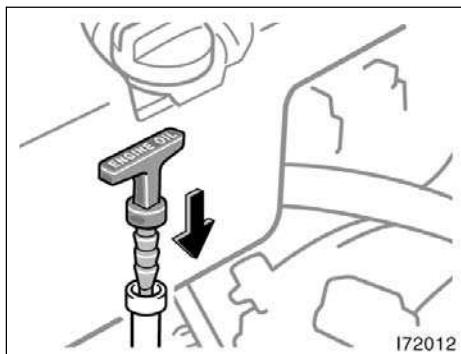
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Checking the engine oil level



With the engine at operating temperature and turned off, check the oil level on the dipstick.

1. To get a true reading, the vehicle should be on a level spot. After turning off the engine, wait a few minutes for the oil to drain back into the bottom of the engine.
2. Pull out the dipstick, and wipe it clean with a rag.



3. Standing up on the left side of the vehicle, reinsert the dipstick in the direction so that the "ENGINE OIL" on top should be read correctly and 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.

NOTICE

Make sure to hold a rag under the dipstick, to avoid spilling drops of engine oil when you pull it out.

CAUTION

Be careful not to touch the hot exhaust manifold.

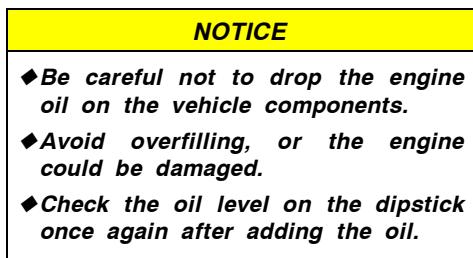
If the oil level is below or only slightly above the low level, add engine oil of the same type as already in the engine.

Remove the oil filler cap and add engine oil in small quantities at a time, checking the dipstick.

The approximate quantity of oil needed to fill between the low level and the full level on the dipstick is indicated below for reference.

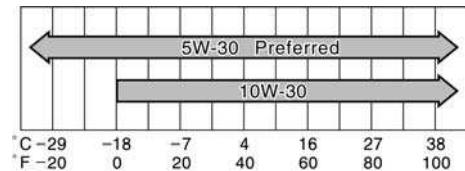
When the level reaches within the correct range, install the filler cap hand-tight.

Oil quantity, L (qt., Imp. qt.):
1.5 (1.6, 1.3)

**ENGINE OIL SELECTION**

Use API grade SJ "Energy-Conserving, SL "Energy-Conserving" or ILSAC multigrade engine oil.

Recommended viscosity (SAE):

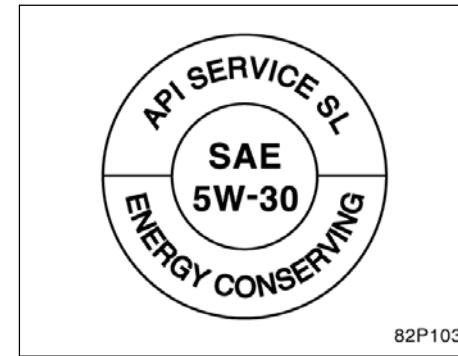


Temperature range anticipated before next oil change

OIL05U

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.



API service symbol



ILSAC certification mark

Oil identification marks

Either or both API registered marks are added to some oil containers to help you select the oil you should use.

The API Service Symbol is located anywhere on the outside of the container.

The top portion of the label shows the oil quality by API (American Petroleum Institute) designations such as SL. The center portion of the label shows the SAE viscosity grade such as SAE 5W-30. "Energy-Conserving" shown in the lower portion, indicates that the oil has fuel-saving capabilities.

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

Checking the engine coolant level

Look at the see-through coolant reservoir when the engine is cold. The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir. If the level is low, add ethylene-glycol type coolant for a proper corrosion protection of aluminum components.

The coolant level in the reservoir will vary with engine temperature. However, if the level is on or below the "LOW" line, add coolant. Bring the level up to the "FULL" line.

Always use ethylene-glycol type coolant for a proper corrosion protection of aluminum components. See information in the next column.

If the coolant level drops within a short time after replenishing, there may be a leak in the system. Visually check the radiator, hoses, radiator cap and drain cock and water pump.

If you can find no leak, have your Toyota dealer test the cap pressure and check for leaks in the cooling system.

CAUTION

To prevent burning yourself, do not remove the radiator cap when the engine is hot.

Coolant type selection

Use of improper coolants may damage your engine cooling system. Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of your engine that contains aluminum components. Use "TOYOTA Long Life Coolant" or equivalent.

In addition to preventing freezing and subsequent damage to the engine, this type of coolant will prevent corrosion. Further supplemental inhibitors or additives are neither needed nor recommended.

Read the coolant container for information on freeze protection. Follow the manufacturer's directions for how much to mix with plain water (preferably demineralized water or distilled water). The total capacity of the cooling system is given in Section 8.

We recommend to use 50% solution for your Toyota, to provide protection down to about -35°C (-31°F). When it is extremely cold, to provide protection down to about -50°C (-58°F), 60% solution is recommended. Do not use more than 70% solution for better coolant performance.

NOTICE

Do not use alcohol type antifreeze or plain water alone.

Checking the radiator and condenser

If any of the above parts are extremely dirty or you are not sure of their condition, take your vehicle to Toyota dealer.

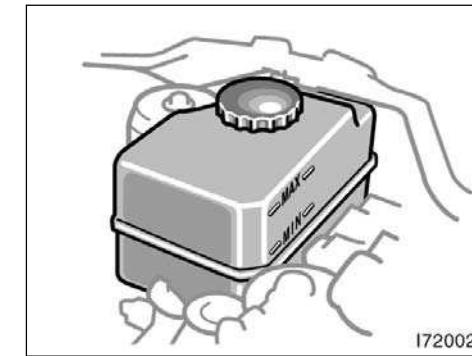
CAUTION

To prevent yourself from burning, be careful not to touch the radiator or condenser when the engine is hot.

NOTICE

To prevent damage to the radiator and condenser, do not perform the work by yourself.

Checking brake fluid



I72002

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 or when the fluid level in the accumulator is high.

If the reservoir needs frequent refueling, 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.

Refilling brake fluid:

1. Turn the ignition switch off.
2. Depress the brake pedal more than 40 times.
3. Remove the reservoir cap by hand. Add brake fluid up to the "MAX" line.

If you do not follow the procedure above, the reservoir may overflow.

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.

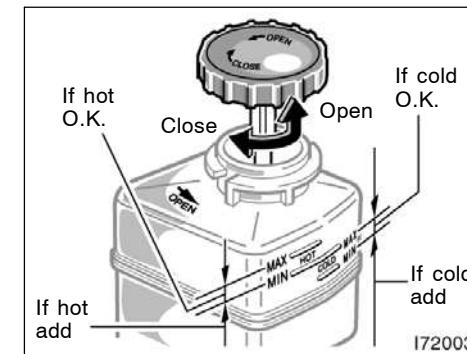
NOTICE

If you spill the fluid, be sure to wipe it off to prevent it from damaging the parts or painting.

! CAUTION

Take care when filling the reservoir because brake fluid can harm your eyes and damage painted surfaces. If fluid gets in your eyes, flush your eyes with clean water immediately. If you still feel uncomfortable with your eyes, go to the doctor.

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.

Clean all dirt from outside of the reservoir tank and look at the fluid level. If the fluid is cold, the level should be in the "COLD" range. Similarly, if it is hot, the fluid level should be in the "HOT" range. If the level is at the low side of either range, add automatic transmission fluid DEXRON®II or III to bring the level within the range.

To remove the reservoir cap, turn it counterclockwise and lift up. To reinstall it, turn it clockwise. After replacing the 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 weight are given in Section 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 tire bead. If the tire pressure is excessively low, there is the possibility of wheel deformation and/or tire separation.

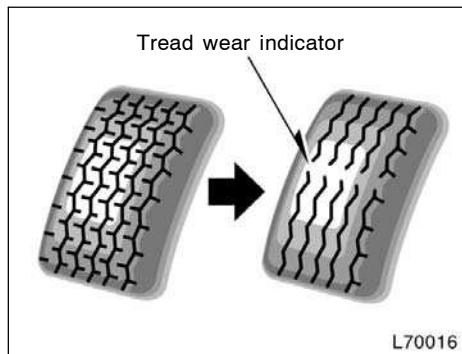
High tire pressure produces a harsh ride, handling problems, excessive wear at the center of the tire tread, and a greater possibility of tire damage from road hazards.

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 ride and handling.
- **Do not bleed or reduce tire pressure after driving.** It is normal for the tire pressure to be higher after driving.
- **Never exceed the vehicle capacity weight.** The passenger and luggage weight should be located so that the vehicle is balanced.
- **Be sure to reinstall the tire inflation valve caps.** Without the valve caps, dirt or moisture could get into the valve core and cause air leakage. If the caps have been lost, have new ones put on as soon as possible.

Checking and replacing tires



CHECKING YOUR TIRES

Check the tire tread for the tread wear indicators. If the indicators show, replace the tires.

The tires on your Toyota have built-in tread wear indicators to help you know when the tires need replacement. When the tread depth wears to 1.6 mm (0.06 in.) or less, the indicators will appear. If you can see the indicators in two or more adjacent grooves, the tire should be replaced. The lower the tread, the higher the risk of skidding.

The effectiveness of snow tires is lost if the tread wears down below 4 mm (0.16 in.).

Check the tires regularly for damage such as cuts, splits and cracks. If any damage is found, consult with a technician and have the tire repaired or replaced.

Even if the damage does not appear serious, a qualified technician should examine the damage. Objects which have penetrated the tire may have caused internal damage.

Any tires which are over 6 years old must be checked by a qualified technician even if damage is not obvious.

Tires deteriorate with age even if they have never or seldom been used.

This also applies to the spare tire and tires stored for future use.

REPLACING YOUR TIRES

When replacing a tire, use only the same size and construction as originally installed and with the same or greater load capacity.

Using any other size or type of tire may seriously affect handling, ride, speedometer/odometer calibration, ground clearance, and clearance between the body and tires or snow chains.

CAUTION

- Do not mix radial, bias belted, or bias-ply tires on your vehicle. It can cause dangerous handling characteristics, resulting in loss of control.
- Do not use tires or wheels other than the manufacturer's recommended size.

Toyota recommends all four tires, or at least both front or rear tires be replaced as a set.

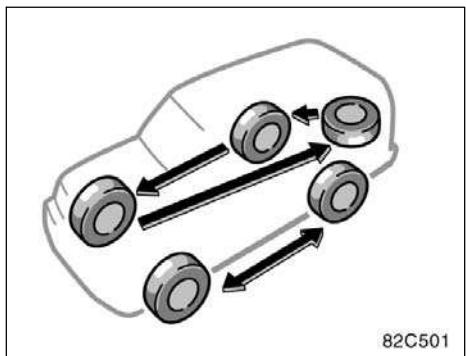
See "If you have a flat tire" in Section 4 for tire change procedure.

When a tire is replaced, the wheel should always be balanced.

An unbalanced wheel may affect vehicle handling and tire life. Wheels can get out of balance with regular use and should therefore be balanced occasionally.

When replacing a tubeless tire, the air valve should also be replaced with a new one.

Rotating tires



To equalize tire wear and help extend tire life, Toyota recommends that you rotate your tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".) However, the most appropriate timing for tire rotation may vary according to your driving habits and road surface conditions.

See "If you have a flat tire" in Section 4 for tire change procedure.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, or severe braking.

Installing snow tires and chains

WHEN TO USE SNOW TIRES OR CHAINS

Snow tires or chains are recommended when driving on snow or ice.

On wet or dry roads, conventional tires provide better traction than snow tires.

SNOW TIRE SELECTION

If you need snow tires, select the same size, construction and load capacity as the original tires on your Toyota.

Do not use tires other than those mentioned above. Do not install studded tires without first checking local regulations for possible restrictions.

SNOW TIRE INSTALLATION

Snow tires should be installed on all wheels.

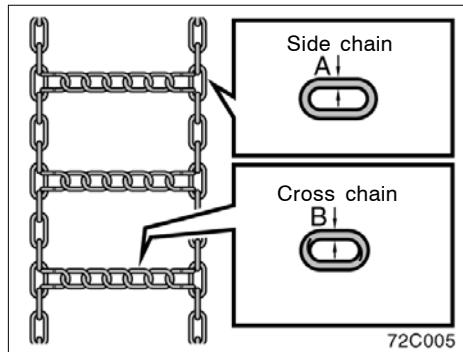
Installing snow tires on the rear wheels only can lead to an excessive difference in road grip capability between the front and rear tires which could cause loss of vehicle control.

When storing removed tires, you should store them in a cool dry space.

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.



TIRE CHAIN SELECTION

Use the tire chains of correct size.

For P275/70R16 114S tire, use the following type chains.

mm (in.)

A Diameter of side chain: 3.5 (0.14)

B Diameter of cross chain: 4.0 (0.16)

Regulations regarding the use of tire chains vary according to location or type of road, so always check them before installing chains.

NOTICE

If the wrong combination of tire and chain is used, the chains could damage the vehicle body.

CHAIN INSTALLATION

Install the chains on the rear tires as tightly as possible. Do not use tire chains on the front tires. Retighten chains after driving 0.5—1.0 km (1/4—1/2 mile).

When installing chains on your tires, carefully follow the instructions of the chain manufacturer.

If wheel covers are used, they will be scratched by the chain band, so remove the covers before putting on the chains.

 **CAUTION**

- Do not exceed 50 km/h (30 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully avoiding bumps, holes, and sharp turns, which may cause the vehicle to bounce.
- Avoid sharp turns or locked-wheel braking, as use of chains may adversely affect vehicle handling.
- When driving with chains installed, be sure to drive carefully. Slow down before entering the curves to avoid losing control of the vehicle. Otherwise an accident may occur.

Replacing wheels

WHEN TO REPLACE YOUR WHEELS

If you have wheel damage such as bending, cracks or heavy corrosion, the wheel should be replaced.

If you fail to replace damaged wheels, the tire may slip off the wheel or cause loss of handling control.

WHEEL SELECTION

When replacing wheels, care should be taken to ensure that the wheels are replaced by ones with the same load capacity, diameter, rim width, and offset.

Correct replacement wheels are available at your Toyota dealer.

A wheel of a different size or type may adversely affect handling, wheel and bearing life, brake cooling, speedometer/odometer calibration, stopping ability, headlight aim, bumper height, vehicle ground clearance, and tire or snow chain clearance to the body and chassis.

Replacement with used wheels is not recommended as they may have been subjected to rough treatment or high mileage and could fail without warning. Also, bent wheels which have been straightened may have structural damage and therefore should not be used. Never use an inner tube in a leaking wheel which is designed for a tubeless tire.

Aluminum wheel precautions

- When installing aluminum wheels, check that the wheel nuts are tight after driving your vehicle the first 1600 km (1000 miles).
- If you have rotated, repaired, or changed your tires, check that the wheel nuts are still tight after driving 1600 km (1000 miles).
- When using tire chains, be careful not to damage the aluminum wheels.
- Use only the Toyota wheel nuts and wrench designed for your aluminum wheels.
- When balancing your wheels, use only Toyota balance weights or equivalent and a plastic or rubber hammer.
- As with any wheel, periodically check your aluminum wheels for damage. If damaged, replace immediately.

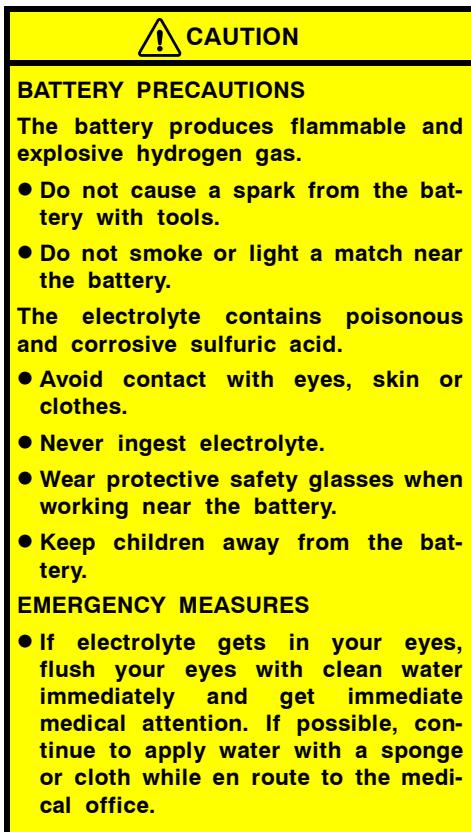
SECTION 7-3

DO-IT-YOURSELF MAINTENANCE

Electrical components

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Battery recharging precautions	257
Checking and replacing fuses	258
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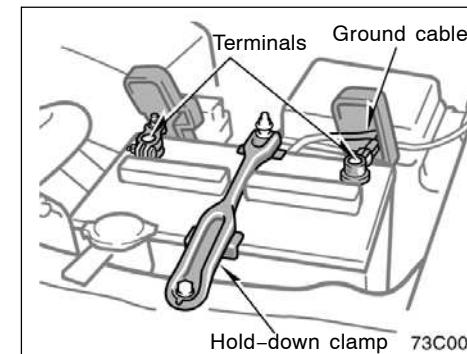
Checking battery condition— —Precautions



- If electrolyte gets on your skin, thoroughly wash the contact area. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes, there is a possibility of its soaking through to your skin, so immediately take off the exposed clothing and follow the procedure above, if necessary.
- If you accidentally swallow electrolyte, drink a large quantity of water or milk. Follow with milk of magnesia, beaten raw egg or vegetable oil. Then go immediately for emergency help.

Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

—Checking battery exterior

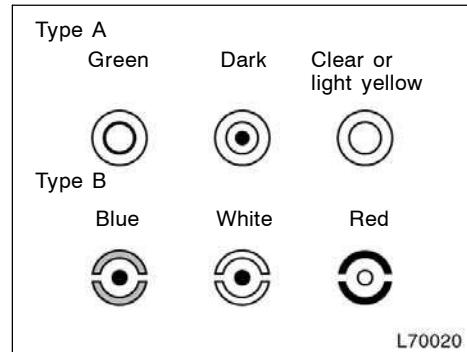


Check the battery for corroded or loose terminal connections, cracks, or loose hold-down clamp.

- a. If the battery is corroded, wash it off with a solution of warm water and baking soda. Coat the outside of the terminals with grease to prevent further corrosion.
- b. If the terminal connections are loose, tighten their clamp nuts—but do not overtighten.
- c. Tighten the hold-down clamp only enough to keep the battery firmly in place. Overtightening may damage the battery case.

NOTICE

- ◆ Be sure the engine and all accessories are off before performing maintenance.
- ◆ When checking the battery, remove the ground cable from the negative terminal ("—" mark) first and reinstall it last.
- ◆ Be careful not to cause a short circuit with tools.
- ◆ Take care no solution gets into the battery when washing it.

—Checking battery condition**CHECKING BY INDICATOR**

Check the battery condition by the indicator color.

Indicator color		Condition
Type A	Type B	
Green	Blue	Good
Dark	White	Charging necessary. Have battery checked by your Toyota dealer.
Clear or light yellow	Red	Have battery checked by your Toyota dealer.

Battery recharging precautions

During recharging, the battery is producing hydrogen gas.

Therefore, before recharging:

1. If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
2. Be sure the power switch on the recharger is off when connecting the charger cables to the battery and when disconnecting them.

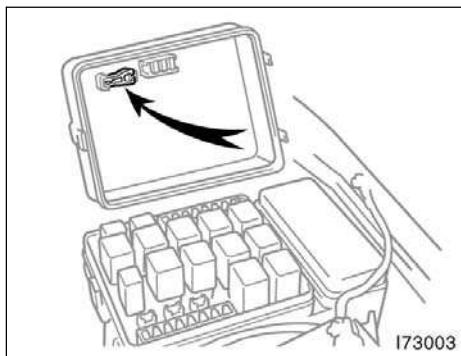
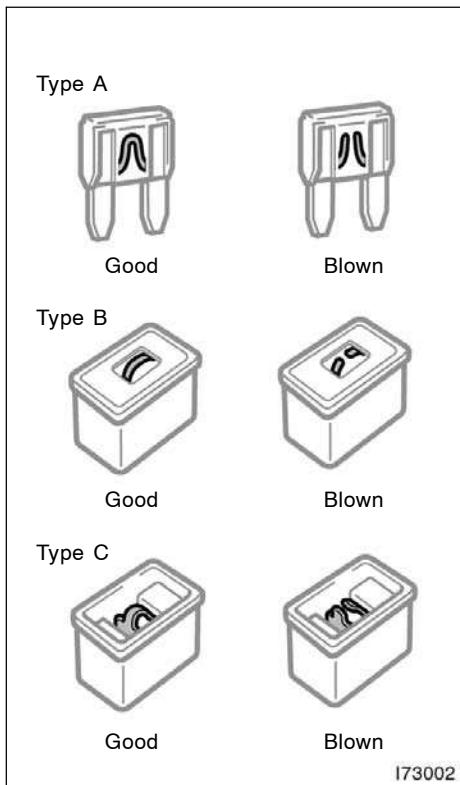
 **CAUTION**

- Always charge the battery in an unconfined area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.
- Only do a slow charge (5 A or less). Charging at a quicker rate is dangerous. The battery may explode, causing personal injuries.

NOTICE

Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

Checking and replacing fuses



If the headlights or other electrical components do not work, check the fuses. If any of the fuses are blown, they must be replaced.

See "Fuse locations" in Section 7-1 for locations of the fuses.

Turn the ignition switch and inoperative component off. Pull a suspected fuse straight out and check it.

Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse. See Section 8 of this manual for the functions controlled by each circuit.

Type A fuses can be pulled out by the pull-out tool. The location of the pull-out tool is shown in the illustration.

If you are not sure whether the fuse has blown, try replacing the suspected fuse with one that you know is good.

If the fuse has blown, push a new fuse into the clip.

Only install a fuse with the amperage rating designated on the fuse box lid.

If you do not have a spare fuse, in an emergency you can pull out the "RADIO", "DOME" or "RR A.C" fuse, which may be dispensable for normal driving, and use it if its amperage rating is the same.

If you cannot use one of the same amperage, use one that is lower than, but as close as possible to, the rating. If the amperage is lower than that specified, the fuse might blow out again but this does not indicate anything wrong. Be sure to get the correct fuse as soon as possible and return the substitute to its original clip.

It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

If the new fuse immediately blows out, there is a problem with the electrical system. Have your Toyota dealer correct it as soon as possible.

 **CAUTION**

Never use a fuse with a higher amperage rating, or any other object, in place of a fuse. This may cause extensive damage and possibly a fire.

Adding washer fluid

If any washer does not work, the washer tank may be empty. Add washer fluid.

You may use plain water as washer fluid. However, in cold areas where temperatures range below freezing point, use washer fluid containing antifreeze. This product is available at your Toyota dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

NOTICE

- ◆ **Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.**
- ◆ **Do not fill washer fluid over the "NORMAL" level.**

Replacing light bulbs—

The following illustrations show how to gain access to the bulbs. When replacing a bulb, make sure the ignition switch and light switch are off. Use bulbs with the wattage ratings given in the table.

 **CAUTION**

- **To prevent yourself from burning, do not replace the light bulbs while they are hot.**
- **Halogen bulbs have pressurized gas inside and require special handling. They can burst or shatter if scratched or dropped. Hold a bulb only by its plastic or metal case. Do not touch the glass part of a bulb with bare hands.**

NOTICE

Only use a bulb of the listed type.

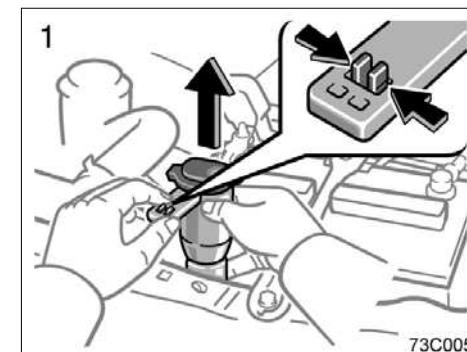
The inside of the lens of exterior lights such as headlights may temporarily fog up when the lens becomes wet in the rain or in a car wash. This is not a problem because the fogging is caused by the temperature difference between the outside and inside of the lens, just like the windshield fogged up in the rain. However, if there is a large drop of water on the inside of the lens, or if there is water pooled inside the light, contact your Toyota dealer.

Light bulbs	Bulb No.	W	Type
Headlights (high)	9005	60	A
Headlights (low)	9006	51	B
Front turn signal and front side marker lights	1157NA	27/8	C
Front fog lights	9006	51	B
Parking lights	—	5	D

Light bulbs	Bulb No.	W	Type
Rear turn signal lights	7440	21	D
Stop/tail lights	7443	21/5	D
Back-up lights	7440	21	D
License plate lights	—	5	D
Interior lights	—	8	E
Personal lights			
Type A	—	5	F
Type B	—	8	E
Glove box light	—	1.4	D
Door courtesy lights	—	3	D
Vanity lights	—	1.5	E

A : HB3 halogen bulbs
 B : HB4 halogen bulbs
 C : Single end bulbs (amber)
 D : Wedge base bulbs
 E : Double end bulbs
 F : Single end bulbs

—Headlights

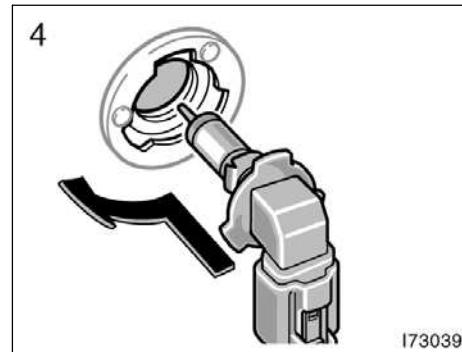
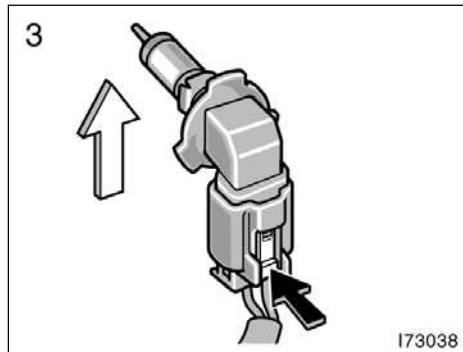
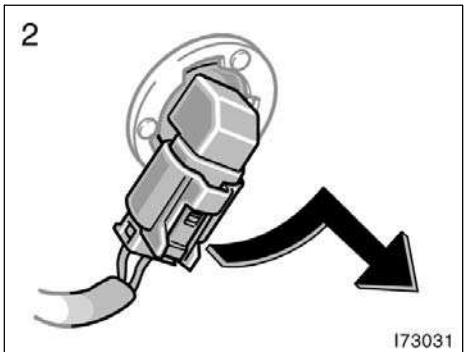


1. Open the hood.

LEFT-HAND HEADLIGHT: Remove the washer inlet.

Be careful not to spill the washer fluid over the "NORMAL" level.

Do not place the washer inlet on the engine or battery.



2. Turn the bulb base counterclockwise to the front of the vehicle as shown.

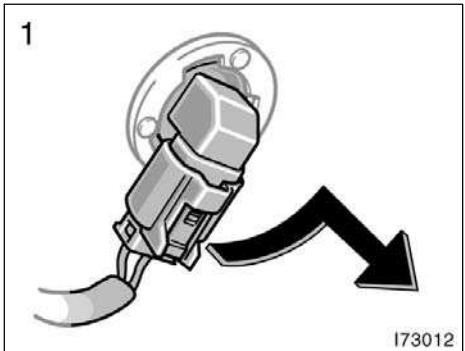
3. Pull the bulb out of the bulb base.
If the connector is tight, wiggle it.

4. Install a new bulb base by turning it clockwise to the front of the vehicle.

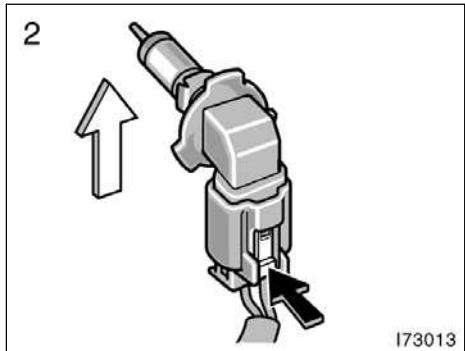
LEFT-HAND HEADLIGHT: Install the washer inlet securely.

Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your Toyota dealer.

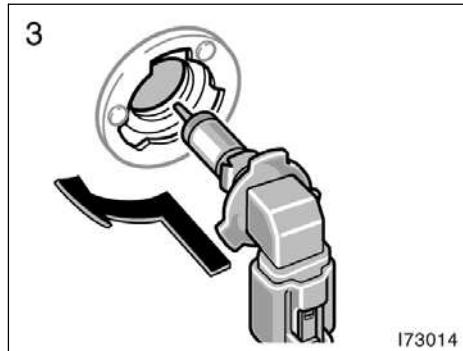
—Front fog lights



1. Turn the bulb base counterclockwise to the front of the vehicle as shown.



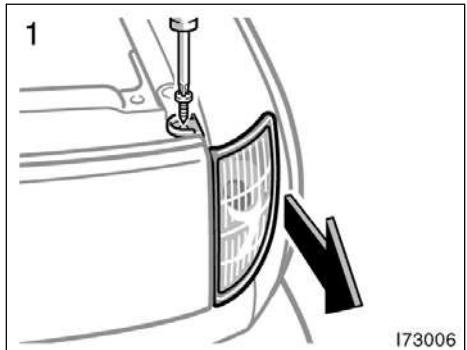
2. Pull the bulb out of the bulb base.
If the connector is tight, wiggle it.



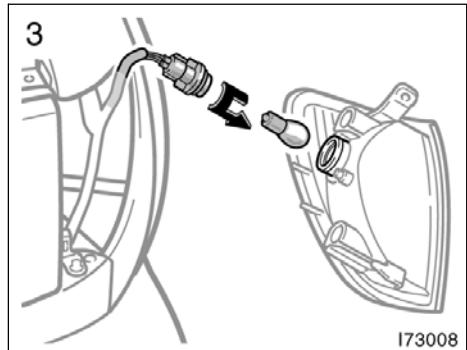
3. Install a new bulb base by turning it clockwise to the front of the vehicle.

Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your Toyota dealer.

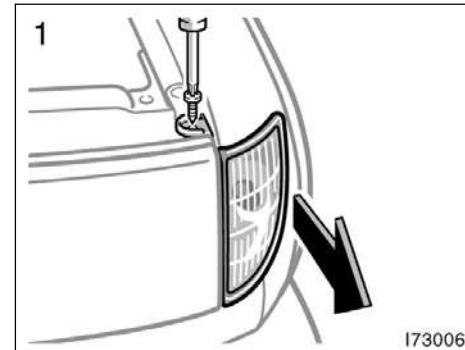
—Front turn signal and front side marker lights



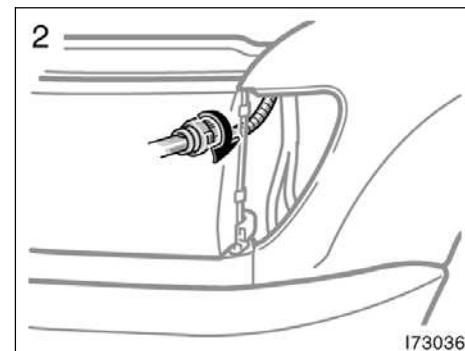
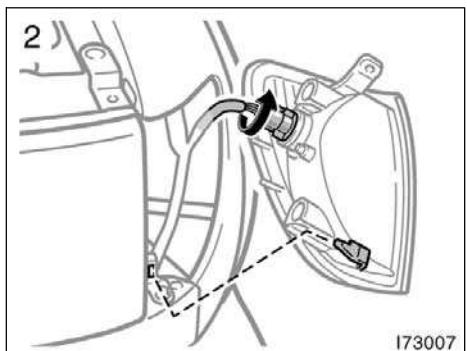
Use a Phillips-head screwdriver.



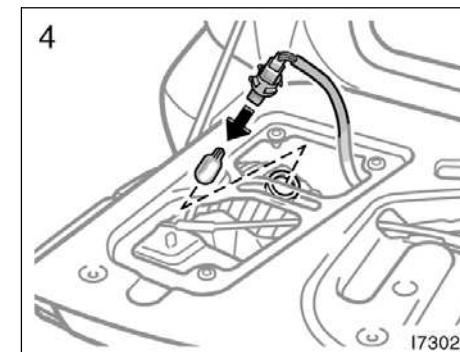
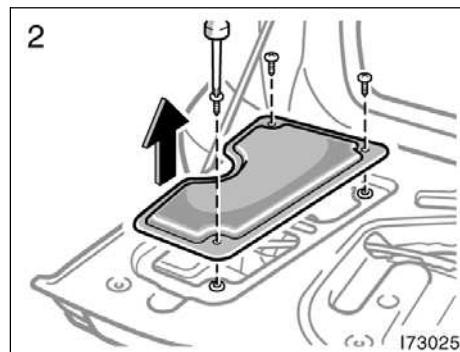
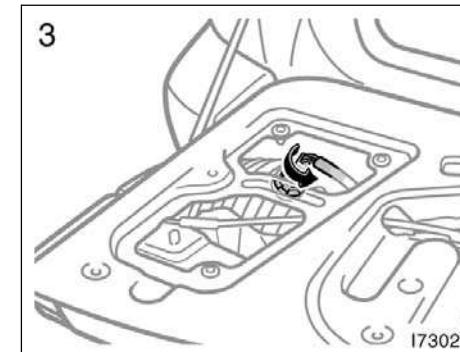
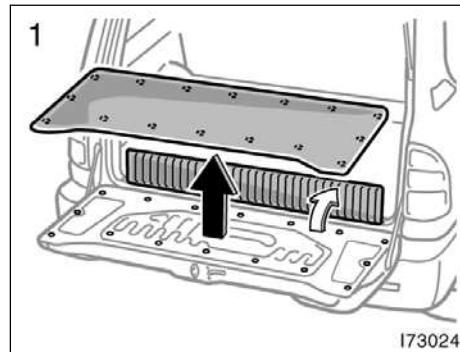
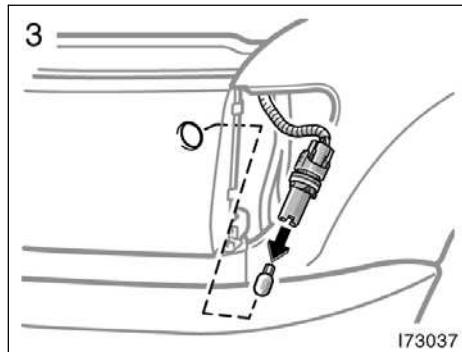
—Parking lights



Use a Phillips-head screwdriver.

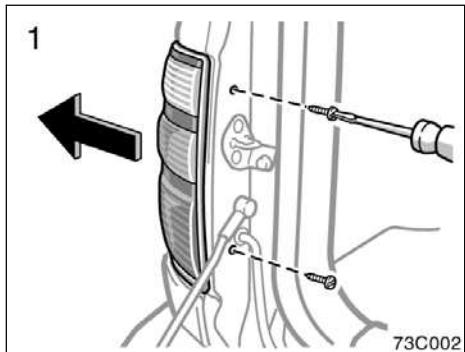


—Stop and tail lights

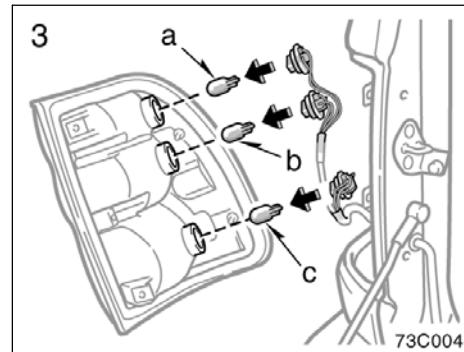
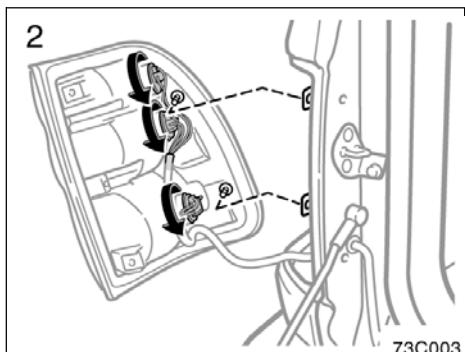


Use a Phillips-head screwdriver.

—Rear turn signal, stop/tail,
and back-up lights

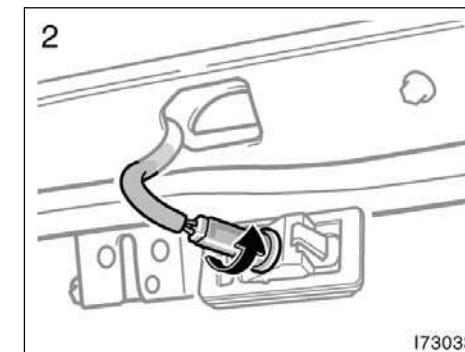
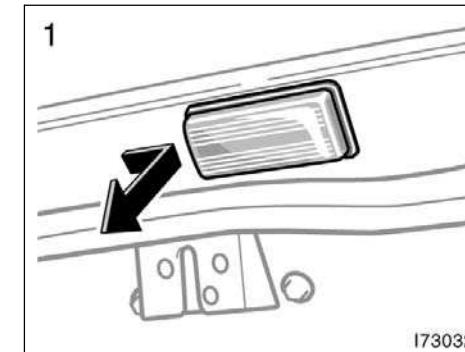


Use a flat-bladed screwdriver.

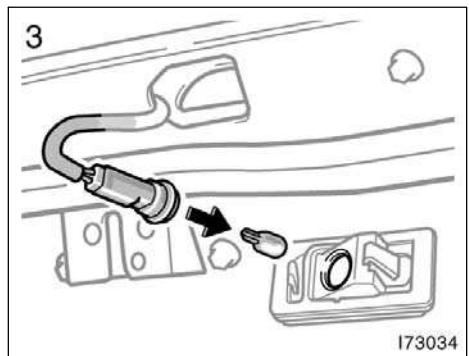


a: Back-up light
b: Rear turn signal light
c: Stop/tail light

—License plate lights



'02 L/C U (L/O 0108)



SECTION 8

SPECIFICATIONS

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'02 L/C U (L/O 0108)

Dimensions and weight

Overall length	mm (in.)	4890 (192.5)
Overall width	mm (in.)	1940 (76.4)
Overall height	mm (in.)	1875 (73.8) ^{*1}
Wheelbase	mm (in.)	2850 (112.2)
Front tread	mm (in.)	1620 (63.8)
Rear tread	mm (in.)	1615 (63.6)
Vehicle capacity weight (occupants + luggage)	kg (lb.)	590 (1300) 562 (1240) ^{*2}

^{*1}: Unladen vehicle

^{*2}: With third seats

Engine

Model:	2UZ-FE
Type:	8 cylinder V type, 4 cycle, gasoline
Bore and stroke, mm (in.):	94.0 × 84.0 (3.70 × 3.30)
Displacement, cm ³ (cu. in.):	4664 (284.6)

Fuel

Fuel type:

Unleaded gasoline, Octane Rating 87 (Research Octane Number 91) or higher.

For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

Fuel tank capacity, L (gal., Imp. gal.):

96 (25.4, 21.1)

Service specifications**ENGINE**

Valve clearance (engine cold), mm (in.):
 Intake 0.15—0.25 (0.006—0.010)
 Exhaust 0.25—0.35 (0.010—0.014)

Spark plug type:

DENSO SK20R11
 NGK IFR6A11

Spark plug gap, mm (in.):
 1.1 (0.043)

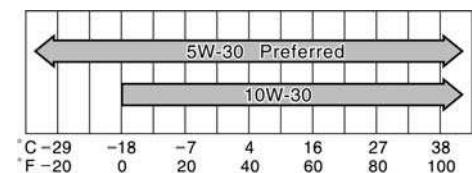
ENGINE LUBRICATION

Oil capacity (drain and refill), L (qt., Imp. qt.)
 With filter 6.8 (7.2, 6.0)
 Without filter 6.4 (6.8, 5.6)

Oil grade:

API grade SJ "Energy-Conserving", SL "Energy-Conserving" or ILSAC multi-grade engine oil is recommended.

Recommended oil viscosity (SAE):



Temperature range anticipated before next oil change

COOLING SYSTEM

Total capacity, L (qt., Imp. qt.)
 Without rear heater 14.7 (15.5, 12.9)
 With rear heater 15.4 (16.3, 13.6)

Coolant type:

"TOYOTA Long Life Coolant" or equivalent
 With ethylene-glycol type coolant for a proper corrosion protection of aluminum components

Do not use alcohol type antifreeze or plain water alone.

BATTERY

Open voltage* at 20°C (68°F):
 12.6—12.8 V Fully charged
 12.2—12.4 V Half charged
 11.8—12.0 V Discharged

*: Voltage that is checked 20 minutes after the key is removed with all the lights turned off

Charging rates:
 5 A max.

AUTOMATIC TRANSMISSION

Fluid capacity (drain and refill), L (qt., Imp. qt.)
 Up to 2.0 (2.1, 1.8)

Fluid type:

Automatic transmission fluid D-II or DEXRON® III (DEXRON® II)

TRANSFER

Oil capacity, L (qt., Imp. qt.)
 1.3 (1.4, 1.1)

Oil type:

Gear oil API GL-4 or GL-5

Recommended oil viscosity:
 SAE 75W-90

DIFFERENTIAL

Oil capacity, L (qt., Imp. qt.):
 Front 1.6 (1.7, 1.4)
 Rear
 With rear differential lock system 3.2 (3.4, 2.8)
 Without rear differential lock system 3.3 (3.5, 2.9)

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Oil type:

- Standard differential
- Hypoid gear oil API GL-5
- Limited-slip differential
- Hypoid gear oil for limited-slip differential 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

Front drive shaft thrust bushings:

- Synthetic oil and lithium soap base chassis grease, NLGI No.1

Propeller shafts:

- Lithium base wheel bearing grease, NLGI No.2

BRAKES

Minimum pedal clearance when depressed with the force of 490 N (50 kgf, 110 lbf) with the engine running, mm (in.):

116 (4.6)

Pedal free play, mm (in.):

1—6 (0.04—0.24)

Pad wear limit, mm (in.):

1.0 (0.04)

Lining wear limit, mm (in.):

1.0 (0.04)

Parking brake adjustment when pulled with the force of 196 N (20 kgf, 44 lbf):

4—6 clicks

Fluid type:

SAE J1703 or FMVSS No.116 DOT 3

STEERING

Wheel free play:

Less than 40 mm (1.6 in.)

Power steering fluid type:

Automatic transmission fluid DEXRON® II or III

Tires

Tire size:

P275/70R16 114S

Tire pressure, kPa (kgf/cm² or bar, psi):

Normal driving

Front 200 (2.0, 29)

Rear 220 (2.2, 32)

Trailer towing

Front 220 (2.2, 32)

Rear 240 (2.4, 35)

Wheel size:

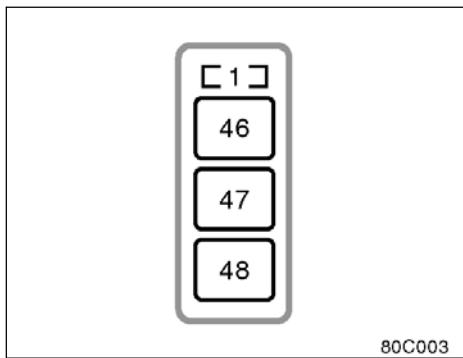
16 x 8JJ

Wheel nut torque, N·m (kgf·m, ft·lbf):

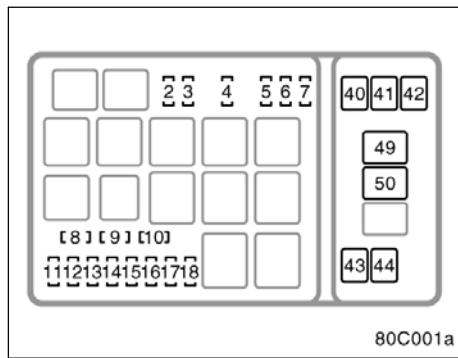
131 (13.4, 96.6)

NOTE: For a complete information on tires (e.g. replacing tires or replacing wheels), see "Checking tire pressure" through "Aluminum wheel precautions" in Section 7-2.

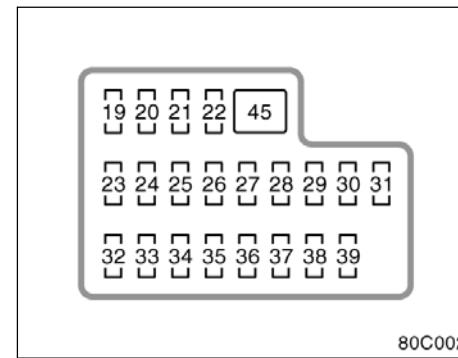
Fuses



Engine compartment



Engine compartment



Left side kick panel

Fuses (type A)

1. **ALT-S 7.5 A:** Charging system
2. **AM1 NO.2 20 A:** Starting system, turn signal lights, emergency flashers, all components in "CIGAR", "ECU-IG", "MIRR", "SRS" fuses
3. **A.C 20 A:** Air conditioning system
4. **SEAT HTR 15 A:** Seat heaters
5. **MIR HTR 15 A:** Outside rear view mirror heater
6. **HEAD CLNER 20 A:** No circuit

7. **CDS FAN 20 A:** Electric cooling fan
8. **EFI 20 A:** Multiport fuel injection system/sequential multiport fuel injection system, emission control system, fuel pump
9. **HORN 10 A:** Horns
10. **THROTTLE 15 A:** Electronic throttle control system
11. **RADIO 20 A:** Car audio system
12. **HAZ-TRN 15 A:** Emergency flashers, turn signal lights

13. **AM2 30 A:** Starting system, multiport fuel injection system/sequential multiport fuel injection system, all components in "IGN" fuse
14. **ECU-B1 20 A:** Power door lock control system, power windows, rear window wiper and washer, illuminated entry system, wireless remote control system, power rear view mirror, gauges and meters, air conditioning system, automatic light control system, theft deterrent system
15. **HEAD (LH-UPR) 20 A:** Left-hand headlight (high beam)

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16. **HEAD (RH-UPR) 20 A:** Right-hand headlight (high beam)

17. **HEAD (LH-LWR) 10 A:** Left-hand headlight (low beam), front fog lights

18. **HEAD (RH-LWR) 10 A:** Right-hand headlight (low beam)

19. **MIRR 10 A:** Power rear view mirror

20. **SRS 15 A:** SRS airbag system, seat belt pretensioners

21. **CIGAR 15 A:** Cigarette lighter, car audio system, power antenna

22. **IGN 10 A:** Multiport fuel injection system/sequential multiport fuel injection system, anti-lock brake system, SRS airbag system, seat belt pretensioners, discharge warning light

23. **DOME 10 A:** Interior lights, personal lights

24. **AHC-IG 20 A:** No circuit

25. **DIFF 20 A:** Rear differential lock system

26. **GAUGE 15 A:** Gauges and meters, service reminder indicators and warning buzzer (except discharge, open door and SRS airbag warning lights), back-up lights, air conditioning system, electronically controlled automatic transmission system, wireless remote control system, daytime running light system

27. **WIPER 25 A:** Windshield wipers and washer, rear window wiper and washer

28. **I/UP 7.5 A:** Engine idle up system

29. **FR FOG 15 A:** Front fog lights

30. **STOP 15 A:** Stop lights, high mounted stoplight

31. **RR A.C 30 A:** Air conditioning system

32. **DEFOG 20 A:** Rear window defogger

33. **ECU-B 15 A:** Power tilt and telescopic steering system, daytime running light system, theft deterrent system

34. **TAIL 15 A:** Tail lights, license plate lights, parking lights, instrument panel lights

35. **AHC-B 15 A:** No circuit

36. **OBD 10 A:** On-board diagnosis system

37. **RR HTR 10 A:** Air conditioning system

38. **ECU-IG 15 A:** Anti-lock brake system, shift lock system, power seats, power antenna, power tilt and telescopic steering system

39. **PWR OUTLET 15 A:** Power outlets

Fuses (type B)

40. **ABS NO.1 50 A:** Anti-lock brake system

41. **AHC 50 A:** No circuit

42. **ACC 50 A:** All components in "PWR OUTLET" fuse

43. **ABS NO.2 40 A:** Anti-lock brake system

44. **STARTER 30 A:** Starting system

45. **POWER 40 A:** Power door lock control system, power windows, electric moon roof, power seat, power tilt and telescopic steering system

Fuses (type C)

46. **MAIN 100 A:** No circuit

47. **ALT 140 A:** All components in "J/B NO.2", "MIR HTR", "AM1 NO.1", "ACC", "CDS FAN", "HTR" and "ABS NO.1" fuses

48. **J/B NO.2 100 A:** All components in "ECU-B", "FR FOG", "DEFOG", "AHC-B", "TAIL", "STOP", "DOME", "POWER", "OBD", "RR A.C" and "RR HTR" fuses

- 49. AM1 NO.1 80 A:** Charging system, all components in "AM1 NO.2", "GAUGE", "WIPER", "DIFF", "A.C" and "SEAT HTR" fuses
- 50. HTR 60 A:** Air conditioning system

'02 L/C U (L/O 0108)

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 operation of your new Toyota. Please read it thoroughly and have all the occupants follow the instructions carefully. Doing so will help you enjoy many years of safe and trouble-free motoring. For important information about this manual and your Toyota, read the following pages carefully.

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.

If there is not a Toyota dealer near you, or you need emergency assistance for any reason, please call the following number:

● U.S. OWNERS: Toyota Customer Assistance Center Toll-free: 1-800-331-4331

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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Important information about this manual

Safety and vehicle damage warnings

Throughout this manual, you will see safety and vehicle damage warnings. You must follow these warnings carefully to avoid possible injury or damage.

The types of warnings, what they look like, and how they are used in this manual are explained as follows:

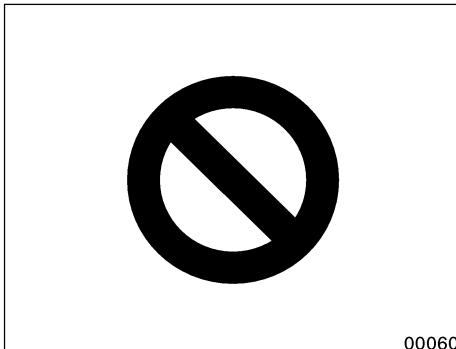
CAUTION

This is a warning against something which may cause injury to people if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk to yourself and other people.

NOTICE

This is a warning against something which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your vehicle and its equipment.

Safety symbol



When you see the safety symbol shown above, it means: "Do not"; "Do not do this"; or "Do not let this happen".

Important information about your Toyota

New vehicle warranty

Your new vehicle is covered by the following Toyota limited warranties:

- New vehicle warranty
- Emission control systems warranty
- Others

For further information, please refer to the "Owner's Warranty Information Booklet" or "Owner's Manual Supplement".

Accessories, spare parts and modification of your Toyota

A wide variety of non-genuine spare parts and accessories for Toyota vehicles are currently available in the market. You should know that Toyota does not warrant these products and is not responsible for their performance, repair, or replacement, or for any damage they may cause to, or adverse effect they may have on, your Toyota vehicle.

This vehicle should not be modified with non-genuine Toyota products. Modification with non-genuine Toyota products could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from the modification may not be covered under warranty.

Your responsibility for maintenance

It is the owner's responsibility to make sure the specified maintenance is performed. Section 6 gives details of these maintenance requirements. Also included in Section 6 is general maintenance. For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

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, electronic throttle control system, cruise control system, anti-lock brake system, SRS airbag system and seat belt pretensioner system, be sure to check with your Toyota dealer for precautionary measures or special instructions regarding installation.

Scrappling of your Toyota

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

On-pavement and off-road driving tips

This vehicle belongs to the utility vehicle class. Utility vehicles have a significantly higher rollover rate than other types of vehicles. This vehicle will handle and maneuver differently from an ordinary passenger car because it is designed for off-road use also. In addition, this vehicle has a higher ground clearance and center of gravity than that of an ordinary passenger car. This vehicle design feature causes this type of vehicle to be more likely to rollover. Failure to operate this vehicle correctly may result in loss of control, accidents or vehicle rollover causing death or serious injury. Be sure to read "Off-road vehicle precautions" in Section 2 and "Off-road driving precautions" in Section 3.

¿U-7

Quick index

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- If your vehicle needs to be towed 220
- Tips for driving during break-in period 173
- How to start the engine 190
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Gas station information

Fuel type:

UNLEADED gasoline, Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

See page 173 for detailed information.

Fuel tank capacity: 96 L (25.4 gal., 21.1 Imp. gal.)

Engine oil:

API grade SJ "Energy-Conserving", SL "Energy-Conserving" or ILSAC multigrade engine oil is recommended.

See page 245 for detailed information.

Automatic transmission fluid:

Automatic transmission fluid D-II or DEXRON®III (DEXRON®II)

Tire information: See pages 249 through 254.

Tire pressure: See page 270.

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You should know as much about the quality and importance of proper maintenance of your new vehicle as the people who built it.

The Toyota authorized Repair Manual tells you how to maintain your vehicle and enables you to correctly perform your own maintenance.



The best way to keep your new vehicle in top running order is to maintain it properly from the moment you drive it off the showroom floor.

The Toyota authorized Repair Manual is packed with literally everything you need to know to perform your own maintenance in virtually every area of your new vehicle.

Maintenance procedures for the engine, chassis, body, electrical system, and more, are clearly explained and illustrated.

Periodic maintenance and tune-up

Periodic maintenance and tune-up helps to prevent small problems from growing into larger ones later on. The repair manual outlines exactly what maintenance is required and clearly explains how to do the work yourself step-by-step.

Areas covered include such things as spark plug replacement, valve clearance adjustment and engine oil and filter replacement.

Where to obtain the Repair Manual

The repair manual for LAND CRUISER, written in English, may be purchased as applicable from any Toyota dealer.

Pub. Name: 2002 LAND CRUISER Repair Manual

Pub. No.: Vol.1RM893U1 (Maintenance, Preparation, Service specifications and Diagnostics)

Vol.2RM893U2 (Engine, Chassis and Body)

WE REALLY CARE ABOUT YOU — PLEASE BUCKLE UP

Toyota has made a special effort to encourage use of seat belts.

Toyota belts are:

- **Comfortable**
- **Easy to use**
- **Convenient**

We encourage you to use your belts every time you drive.

