2014
Entune™ Premium Audio with Navigation and App Suite

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LIMITATIONS OF THE QUICK REFERENCE GUIDE

The Quick Reference Guide is designed to provide information on the basic operation and key features of the navigation system and Entune™ (apps and data services). The Quick Reference Guide is not intended as a substitute for the Navigation Owner's Manual. We strongly encourage you to review the Navigation Owner's Manual, the quick reference guide and visit www.toyota.com/entune so you will have a better understanding of all your vehicles features and controls.

BASIC MAP OPERATION

* NOTE: The position of AUDIO and HOME buttons may be different on some vehicles.

1. **NORTH-UP OR COMPASS MODE Icon**
   Touch to change the map display between North-up or Head-up perspectives.

2. **ZOOM IN/ZOOM OUT Icons**
   Touch to magnify or reduce the map scale.

3. **HOME Button**
   Access to Navigation Screen

4. **APPS Button**
   Access to APPS, Entune (Bing, MovieTickets, OpenTable, etc...) fuel consumption, traffic, fuel prices, sports, stocks, weather, and map data.

5. **AUDIO Button**
   Access to audio functions.

6. **CURRENT VEHICLE POSITION Mark**
   Indicates the current position of the vehicle and its directional heading.

Quick Tip - The USB and AUX port location and design are different depending on the vehicle. For details, see the Owner's Manual.

PLEASE READ

WHAT IS ENTUNE® APP SUITE?

The available Entune App Suite system is a collection of popular mobile applications and data services integrated with select 2014 Toyota vehicles. Entune App Suite is subscription free.

Once the phone is connected to the vehicle using Bluetooth® wireless technology, Entune's App Suite features are operated using the vehicle's controls or, for some services, by voice recognition. Entune App Suite includes mobile apps for Bing™, iHeartRadio, MovieTickets.com, OpenTable®, Pandora®, Facebook Places and Yelp. Data services include Fuel, Sports, Stocks, Traffic and Weather.

See www.toyota.com/entune for availability of apps and services.

ENTUNE APP SUITE*

In order to access Entune App Suite applications from your vehicle's touch screen, an Entune App Suite capable phone is required and you must use a computer to register for Entune App Suite. Visit www.toyota.com/entune to learn all about Entune App Suite features and use the link to register. After you register, use your cell phone to download the Entune App Suite from the appropriate app store.

For additional information on Entune App Suite and to check phone compatibility, visit www.toyota.com/connect or call the Toyota Customer Experience Center at 1-800-331-4331.

PHONE COMPATIBILITY

An Entune App Suite capable phone is required to use the additional features. Check phone compatibility by one of the following methods:

- Visit: www.toyota.com/connect
- Call the Toyota Customer Experience Center at 1-800-331-4331

Note: You do not need an Entune App Suite capable phone to use Bluetooth® hands-free, Bluetooth audio or the navigation system. To connect a Bluetooth Phone, refer to page 3.

*Be sure to obey traffic regulations and maintain awareness of road and traffic conditions. Select Entune App Suite use a large amount of data and you are responsible for all data charges. Apps and services vary by phone and carrier. Not all apps and data services are available at all times and all locations. Apps identified by "™" or "®" are trademarks or registered trademarks of their respective companies and cannot be used without permission. See toyota.com/entune for the latest information regarding apps and services.

BASIC OVERVIEW

	Step	Reference
Phone Compatibility	**1** Confirm that your phone is able to run the Entune App.	Go to "PHONE COMPATIBILITY" on page 22.
Download App	**2** Download the Entune App to your phone.	Using your cell phone, find the Entune App in the Apple App Store™, Google Play™.
Account Creation	**3** Enroll via your mobile device or register on www.toyota.com/entune and create a personal Entune App account using your computer.	Go to "ACCOUNT CREATION" on page 6.
Launch App and Login	**4** Launch the Entune App on your phone and sign in.	The Entune App must be running on the mobile device in order to use the internet services. User Name: Password
Connect	**5** Connect your phone to your vehicle, and experience Entune App.	Go to "CONNECT A BLUETOOTH PHONE" on page 7.

ACCOUNT CREATION

step 1 From a mobile device (Entune App) or a computer, access www.toyota.com/entune

step 2 From a mobile device, click "Sign Up for Entune," or from a computer, click on the Register button on the right hand side of the screen.

step 3 Create your Entune App account.

step 4 Follow the easy steps to complete your account.

DOWNLOADING ENTUNE APP SUITE TO YOUR PHONE

Using your cell phone, connect to your app store (Apple App Store℠, Google Play™), search for Entune and download. Contact your mobile device provider if you need assistance.

LAUNCH APP

In order to view the Entune App Suite on your vehicle display, some phones may require an additional step after they have been connected. After signing in, select Options on your phone to ensure the phone is connected and listening.

CONNECT PHONE

See page 7 for instructions.

ACCESSING ENTUNE APPS

step 1 Press on the faceplate.

step 2 Use or or swip with your finger to access the additional Apps

The Entune App contains the only individual apps that will work with your vehicle. Other apps downloaded on your phone are not available through Entune.

Quick Tip - The Entune App must be running on the mobile device in order to use the internet services.

CONNECT A BLUETOOTH PHONE

Pairing your phone is the first step in connecting with your Toyota for hands-free calling and for audio streaming via Bluetooth. The pairing process is quick and easy: all iPhone mobile digital devices and Android smartphones have Bluetooth integrated; all you have to do is setup the phone and multimedia system to "talk" to each other and form a connection. Let's get started, first insure that your phone Bluetooth setting is turned on, then follow the steps below.

step 1 Begin by pressing the APPS button and touch the Set Up icon on the faceplate, followed by Bluetooth.

step 2 Press Add on the display screen.

step 3 Go to your phone and access Bluetooth settings, touch the device to be paired. Confirm the PIN and hit "OK." Once you have connected the Bluetooth device, it is automatically connected whenever the engine switch is in the "ACC" or "ON" position.*

step 4 Upon connection, the system will indicate that the pairing process was successful.

Quick Tip -Up to four Bluetooth devices can be paired. A paired device can be connected to any of its supported profiles such as phone, music and/or internet.

* For detailed pairing instructions, see your audio system owner's manual.

ADVANCED VOICE RECOGNITION SYSTEM

VOICE RECOGNITION TRAINING AND TUTORIAL

Before you begin using the voice recognition system, it is recommended that you access "Train Voice Recognition" and "Voice Recognition Tutorial" in the Set Up menu. Voice recognition training is a feature that will help tune the voice recognition system to better understand your voice. For best results, it is recommended that voice recognition training be done when there is minimal background noise. The voice recognition tutorial will give an overview of how to use the voice recognition system, including how to make calls and how to customize your experience.

TRAIN VOICE RECOGNITION

step 1 Press the Set Up icon on the faceplate followed by Voice.

Then select Train Voice Recognition

step 2 Follow the system prompts and repeat a series of phrases after each beep. You will also be able to select the desired level of system guidance.

VOICE RECOGNITION TUTORIAL

step 1 Press the Set Up icon on the faceplate followed by Voice.

Then select Voice Recognition Tutorial

step 2 Select desired tutorial program to run.

DIAL BY NUMBER

step 1 Press on the steering wheel. After the beep say, "Dial <number>." Say the phone number digits individually, without pausing (e.g. "Dial Three, one, zero, four…").

Quick Tip - If you know your next command, you can press at any time to interrupt the prompt. Speak your command after the beep.

step 2 The system will ask you to verify the number.

step 3 Call will begin dialing.

step 4 Call is active when Talking... is indicated. To end call, press on the screen or on the steering wheel.

Some Bluetooth® equipped cell phones may or may not show battery or signal strength on the display.

Quick Tip - It is recommended that you reduce background noise prior to using the Voice Recognition system. Conversation, high fan speed, wind noise (open windows), etc., may prevent the voice recognition system from understanding your commands.

DIAL BY NAME

If you are able to successfully transfer your phone book, you can dial by name using voice recognition. Please say the name exactly as it is entered in your phone when in the telephone screen. If you have difficulty pairing your phone, or are unable to transfer your cell phone book, please refer to the cell phone manufacturer's user guide.

step 1 Press on the steering wheel. After the beep say, "Call <name>*." Please say the name exactly as it is entered in your phone.

step 2 Verify the contact name, and then dialing will begin.

*NOTE: When saying contact name, be sure to say it exactly as it is entered in your address book

Quick Tip - If you know your next command, you can press at any time to interrupt the prompt. Speak your command after the beep.

step 3 Call is active when Talking... is indicated. To end call, press on the screen or on the steering wheel.

step 1 From the home screen, touch the map. followed by Dest.

step 2 Press and enter the desired State/ Province.

step 3 Touch City and move to step 4.

step 4 Input the city name.

step 5 Touch the desired city name.

step 6 Input the street name and touch OK.

Quick Tip - Enter the street name without prefixes such as North or the letter N. The system will display the base street name without prefixes or suffixes on the next screen.

step 7 Touch the desired street name.

step 8 Input the house number and touch OK.

step 9 Touch Go.

step 10 Touch 3 Routes followed by Info.

step 11 Select the desired Route. See page 15 for route selection.

step 12 Touch OK to start route guidance.

The navigation system's voice recognition feature will compare your spoken words with computer-generated word patterns preprogrammed in the database. If the system does not provide your intended match, please try a different pronunciation. Voice-activation names are not available for every street and city.

TIPS FOR USING VOICE RECOGNITION

tip 1 Before using voice recognition, roll up all windows and set the climate control fan on low or off to reduce background noise in the cabin.

tip 2 Have the full and correct address in mind. The system will ask for the state, city, and street name followed by the house number as separate inputs.

tip 3 Streets should be spoken without prefixes or suffixes. Street names should be spoken as in these examples:
1st Street, say: "First"
E 15th Street, say" "Fifteenth"
190th Street, say "One hundred ninetieth"
Point Court, say "Point"

tip 4 Say a street address number as single digits. Examples:
125, say: *"One two five"*
2000, say: *"Two zero zero zero"*
32307, say: *"Three two three zero seven"*

tip 5 Speak at a normal volume and pace, and pronounce words clearly.

BY ADDRESS-VOICE RECOGNITION

step 1 Press on the steering wheel. After the beep say, "Go to <Number, Street, City, State>."

step 2 Verify the address and say "Go Directly" after the beep, or touch

Quick Tip - If you know your next command, you can press at any time to interrupt the prompt. Speak your command after the beep.

step 1 From the home screen, touch the map. followed by Dest. Press

step 2 Touch Name

step 3 Input the POI name and if necessary touch OK.

step 4 Use or to scroll up or down. Touch the desired destination.

Quick Tip - If the POI isn't listed in the database verify the spelling and Search Area for accuracy.

step 5 Touch Go. See page 15 to select desired Route Preference.

DESTINATION INPUT - POINT OF INTEREST (POI)

POINT OF INTEREST BY CATEGORY

step 1 From the home screen, touch the map. followed by Dest. Press

step 2 Touch Category followed by the category location and desired sub-category.

step 3 Scroll to select desired point of interest and touch Go. See page 19 to select desired Route Preference.

DESTINATION INPUT - POINT OF INTEREST (POI)

POINT OF INTEREST BY CATEGORY - VOICE RECOGNITION

Quick Tip -You can search for many dining, hotel and fuel chains by name, e.g., "Find Nearby Starbucks."

step 1 Press on the steering wheel. After the beep say, “Find Nearby <POI category>” (e.g., "Find Nearby Hotel.")

step 2 After the beep say, the number that corresponds to the desired destination.

Quick Tip - If you know your next command, you can press at any time to interrupt the prompt. Speak your command after the beep.

step 3 After the beep say, “Start guidance” or "Call them."

step 4 Start route guidance.

step 1 Press the Set Up icon on the faceplate followed by .

step 2 Touch Home.

step 3 Touch Set Home.

Tip - For security reasons, use a point close to your home instead of your actual home address.

step 4 Touch Address.

step 5 Touch City.

step 6 Input the city name.

step 7 Touch the desired city name.

step 8 Input the street name and touch OK.

Quick Tip - Enter the street name without prefixes such as North or the letter N. The system will display the base street name without prefixes or suffixes on the next screen.

step 9 Touch the desired street name.

step 10 Input the house number and touch OK.

step 11 Confirm location and touch Enter.

step 12 Touch Edit followed by the desired icon for your home. Touch OK.

OPERATION OF EMERGENCY SCREEN

PRESS > Dest.

Touch the desired emergency category. If the vehicle is in motion, only nearby police stations, dealers, hospitals or fire stations are shown.

SEARCH AREA

Prior to inputting the desired address select the State/Province by pressing Change State/Province. The system is only capable of searching for an address within one state or province at a time.

ROUTE PREFERENCES

Once the address has been inputted, select the desired route preference(s) for the trip. By selecting Info the system will display time, toll roads, ferry and freeway information.

3 ROUTES

One of three routes may be chosen for the trip:
Quick- is the easiest route, usually the fastest
Short- is the most direct based upon driven mileage
Alternate- is the second fastest route

SCREEN CONFIGURATIONS

SELECT NAVIGATION APP > Map Mode

Select what information to display with the map. Some selections are available during route guidance mode only.

ADDITIONAL NAVIGATION FEATURES

BEEP SETTING

PRESS SET UP ICON > General

Check the Beep box on or off.

VOICE VOLUME

PRESS SET UP ICON > Voice

Adjust the Voice Guidance volume level.

LANGUAGE

PRESS SET UP ICON > General

Select Language Preference: English, French or Spanish.

SYSTEM TIME

PRESS SET UP ICON > General

Adjust the Time Zone and Daylight Saving Time option.

AUTO CHANGE TO HOME SCREEN

PRESS SET UP ICON > General >

Once the screen transition is unchecked (off), the audio screen will remain without reverting to the map display.

AUDIO LIVE PAUSE AND TAG

The Audio App features a pause function that will record up to 20 minutes of live radio for playback later. The Tag feature will record a song from live radio for purchase from a paired mobile device later.

NOTE: When the vehicle is turned off or the radio station is changed, any saved audio content will be lost.

The Traffic App integrates with your navigation system to display continuously updated traffic information for over 100 markets. Just begin by pressing the APPS button and electing .

TRAFFIC EVENT LIST

To see local traffic events, touch Traffic Event List and you will see a list of events at your location. Touch On Current Route to see events along your current route

PREDICTIVE TRAFFIC MAP

Predictive Traffic Map is a feature that displays traffic conditions for the current time based on historical trends at the location. To see a predictive traffic map, touch Predictive Traffic Map. The Predictive Traffic Map can be set to predict traffic conditions 15, 30 and 45 minutes from the current time.

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MY TRAFFIC ROUTES

My Traffis Routes lets you store favorite and previously traveled routes to check traffic conditions. To see traffic routes, touch My Traffic Routes.

AUTOMATICALLY AVOID TRAFFIC

step 1 Press the Set Up icon on the faceplate followed by .

step 2 Select the **Avoid Traffic** option to swith from Manual to Automatic and press OK. The system will automatically select another route when moderate or heavy traffic is detected during route guidance.

TRAFFIC INCIDENT WARNING

step 1 Press the Set Up icon on the faceplate followed by .

step 2 Select the **Traffic Incident Warning** option to receive voice notification of traffic events within 20 miles along the current route. Press OK.

WEATHER

The weather app allows you to access Doppler weather radar information. You can also check the weather forecast for other cities.

To begin, press the APPS button on the console, then touch Weather and choose your desired category.

Once you have selected which city, you can check the current weather as well as see forecasts for the next 3 days or next 6 hours, for whichever city you have chosen.

By selecting Weather Map you can check an HD Doppler radar weather map of your area. To move around the map touch and swipe to the desired location.

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ENTUNE APP SUITE FEATURES

Once your phone is connected via Bluetooth, Entune lets you access many useful apps. These are some of the featured apps you can access by pressing the APPS button on the console.

APPS MENU

SELECT APPS

Begin by pressing the APPs button on the console and choosing the desired app.

PANDORA

SELECT APPS >

Select Pandora App to connect to desired Pandora stations.

BING

SELECT APPS >

Select Bing app to search the web for points of interest nearby.

FACEBOOK PLACES

SELECT APPS >

Select Facebook Places App to check in at a location and to tag friends with you.

iHeartRadio

SELECT APPS >

Select iHeartRadio App to connect to desired iHeartRadio stations.

YELP

SELECT APPS >

Select Yelp App to find local restaurants and see reviews.

NOTES

NOTES

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2	**When driving**	Driving, stopping and safe-driving information.
3	**Interior and exterior features**	Air conditioning and multimedia systems, as well as other interior features for a comfortable driving experience.
4	**Maintenance and care**	Cleaning and protecting your vehicle, performing do-it-yourself maintenance, and maintenance information.
5	**When trouble arises**	What to do if the vehicle needs to be towed, gets a flat tire, or is involved in an accident.
6	**Vehicle specifications**	Detailed vehicle information.
7	**For owners**	Reporting safety defects for U.S. owners, seat belt and SRS airbag instructions for Canadian owners and camper information.
	Index	Alphabetical listing of information contained in this manual.

For your information

Main Owners Manual

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

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

Depending on specifications, the vehicle shown in the illustrations may differ from your vehicle in terms of equipment.

Noise from under vehicle after turning off the engine

Approximately five hours after the engine is turned off, you may hear sound coming from under the vehicle for several minutes. This is the sound of a fuel evaporation leakage check and, it does not indicate a malfunction.

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.

Installation of a mobile two-way radio system

The installation of a mobile two-way radio system in your vehicle could affect electronic systems such as:

- Multiport fuel injection system/sequential multiport fuel injection system
- Cruise control system
- Anti-lock brake system
- SRS airbag system
- Seat belt pretensioner system

Be sure to check with your Toyota dealer for precautionary measures or special instructions regarding installation of a mobile two-way radio system.

Vehicle data recordings

Your Toyota is equipped with several sophisticated computers that will record certain data, such as:

- Engine speed
- Accelerator status
- Brake status
- Vehicle speed
- Shift position (except manual transmission)

The recorded data varies according to the vehicle grade level and options with which it is equipped. Furthermore, these computers do not record conversations, sounds or pictures.

- Data usage

Toyota may use the data recorded in these computers to diagnose malfunctions, conduct research and development, and improve quality.

Toyota will not disclose the recorded data to a third party except:

- With the consent of the vehicle owner or with the consent of the lessee if the vehicle is leased
- In response to an official request by the police, a court of law or a government agency
- For research purposes where the data is not tied to a specific vehicle or vehicle owner

Event data recorder

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less.

The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.
To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

● Disclosure of the EDR data

Toyota will not disclose the data recorded in an EDR to a third party except when:

- An agreement from the vehicle's owner (or the lessee for a leased vehicle) is obtained
- In response to an official request by the police, a court of law or a government agency
- For use by Toyota in a lawsuit

However, if necessary, Toyota may:

- Use the data for research on vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing information about the specific vehicle or vehicle owner

Scrapping 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 seat belt 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 scrap your vehicle.

Perchlorate Material

Special handling may apply,
See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Your vehicle has components that may contain perchlorate. These components may include airbag, seat belt pretensioners, and wireless remote control batteries.

CAUTION

General precautions while driving

Driving under the influence: Never drive your vehicle when under the influence of alcohol or drugs that have impaired your ability to operate your vehicle. Alcohol and certain drugs delay reaction time, impair judgment and reduce coordination, which could lead to an accident that could result in death or serious injury.

Defensive driving: Always drive defensively. Anticipate mistakes that other drivers or pedestrians might make and be ready to avoid accidents.

Driver distraction: Always give your full attention to driving. Anything that distracts the driver, such as adjusting controls, talking on a cellular phone or reading can result in a collision with resulting death or serious injury to you, your occupants or others.

General precaution regarding children's safety

Never leave children unattended in the vehicle, and never allow children to have or use the key.

Children may be able to start the vehicle or shift the vehicle into neutral. There is also a danger that children may injure themselves by playing with the windows, or other features of the vehicle. In addition, heat build-up or extremely cold temperatures inside the vehicle can be fatal to children.

Symbols used throughout this manual

Cautions & Notices

⚠ CAUTION

This is a warning against anything 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 reduce the risk of injury to yourself and others.

⚠ NOTICE

This is a warning against anything 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 Toyota and its equipment.

Symbols used in illustrations

The symbol of a circle with a slash through it means “Do not”, “Do not do this”, or “Do not let this happen”.

Arrows indicating operations

➡ Indicates the action (pushing, turning, etc.) used to operate switches and other devices.

⇨ Indicates the outcome of an operation (e.g. a lid opens).

The following keys are provided with the vehicle.

▶ Vehicles without engine immobilizer system

1 Master keys

2 Key number plate

▶ Vehicles with engine immobilizer system

1 Master keys

2 Key number plate

■ **Key number plate**

Keep the plate in a safe place such as your wallet, not in the vehicle. In the event that a key is lost, a new key can be made by your Toyota dealer using the key number plate. (→P. 513)

NOTICE

■ **To prevent key damage (vehicles with engine immobilizer system)**

- Do not subject the keys to strong shocks, expose them to high temperatures by placing them in direct sunlight, or get them wet.
- Do not expose the keys to electromagnetic materials or attach any material that blocks electromagnetic waves to the key surface.

Wireless remote control*

The wireless remote control can be used to lock and unlock the vehicle from outside the vehicle.

1 Locks all doors

2 Unlocks all doors

Pressing the button unlocks the driver's door. Pressing the button again within 3 seconds unlocks the other doors.

3 Sounds alarm (push and hold)

■ Operation signals

A buzzer sounds and the emergency flashers flash to indicate that the doors have been locked/unlocked. (Locked: Once; Unlocked: Twice)

■ Panic mode

When HOLD is pushed for longer than about 1 second, an alarm will sound for about 60 seconds and the vehicle lights will flash to deter any person from trying to break into or damage your vehicle.

To stop the alarm, push any button on the wireless remote control.

■ Door lock buzzer

If a door is not fully closed, a buzzer sounds for 10 seconds if an attempt to lock the door is made. Fully close the door to stop the buzzer, and lock the vehicle once more.

*: If equipped

Wireless remote control depletion

The standard battery life is 1 to 2 years. (The battery becomes depleted even if the key is not used.) If the wireless remote control function does not operate, the battery may be depleted. Replace the battery when necessary. (→P. 450)

If the wireless remote control does not operate

Locking and unlocking the doors: Use the key. (→P. 37)

Security feature

If a door is not opened within approximately 30 seconds after the vehicle is unlocked, the security feature automatically locks the vehicle again.

Conditions affecting operation

The wireless remote control function may not operate normally in the following situations.

- Near a TV tower, radio station, electric power plant, airport or other facility that generates strong radio waves
- When carrying a portable radio, cellular phone or other wireless communication device
- When multiple wireless keys are in the vicinity
- When the wireless key has come into contact with, or is covered by a metallic object
- When a wireless key (that emits radio waves) is being used nearby
- When the wireless key has been left near an electrical appliance such as a personal computer

When riding in an aircraft

When bringing a wireless remote control onto an aircraft, make sure you do not press any buttons on the wireless remote control while inside the aircraft cabin. If you are carrying a wireless remote control in your bag etc, ensure that the buttons are not likely to be pressed accidentally. Pressing a button may cause the wireless remote control to emit radio waves that could interfere with the operation of the aircraft.

Customization that can be configured at Toyota dealer

Settings (e.g. wireless remote control system) can be changed. (Customizable features →P. 561)

Certification for wireless remote control

MODEL/FCC IDs:

Transmitter: GQ43VT20T

Receiver: GQ4-34R

IC (Canada) IDs:

Transmitter: 1470A-1T

Receiver: 1470A-6R

MADE IN USA

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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

Side doors

The vehicle can be locked/unlocked using the wireless remote control, key or door lock switch.

■ Wireless remote control (if equipped)

→P. 34

■ Key

▶Regular Cab models

1 Locks the door

2 Unlocks the door

▶Access Cab and Double Cab models

1 Locks all doors

2 Unlocks all doors

Turning the key a single time in the driver's door unlocks the driver's door, and turning the key again unlocks the other doors.

■ Door lock switch (if equipped)

▶Driver's door lock switch

1 Locks all doors

2 Unlocks all doors

▶Passenger's door lock switch

1 Locks all doors

2 Unlocks all doors

■ Inside door lock button

1 Locks the door

2 Unlocks the door

Pulling the inside handle can open the front door even if the inside door lock button is in the lock position.

Locking the front doors from the outside without a key

STEP 1 Move the inside door lock button to the lock position.

STEP 2 Close the door.

▶ Vehicles with power door lock system

The door cannot be locked if a front door is open and the key is in the engine switch.

Rear door child-protector lock (Double Cab models only)

The door cannot be opened from inside the vehicle when the locks are set.

These locks can be set to prevent children from opening the rear doors. Push down on each rear door switch to lock both rear doors.

■ Key reminder buzzer

A buzzer sounds if the driver's door is opened, while the engine switch is in the ACC or LOCK position to remind you to remove the key.

CAUTION

To prevent an accident

Observe the following precautions while driving the vehicle.
Failing to do so may result in a door opening and an occupant falling out, resulting in death or serious injury.

- Always use a seat belt.
- Always lock all doors.
- Ensure that all doors are properly closed.
- Do not pull the inside handle of the doors while driving.
  The doors may be opened and the passengers are thrown out of the vehicle and it may result in serious injury or death.
  Be especially careful for the front doors, as the doors may be opened even if the inside lock buttons are in locked position.
- Set the rear door child protector locks when children are seated in the rear seat.

Access doors (Access Cab models only)

The access door (rear door) can be opened using the inside handle.

1 Open the front door widely

2 Pull (from the outside) or push (from the inside) the inside handle of the access door.

3 Open the access door

You can open and close the access door only when the front door is widely opened.

NOTICE

■ **When opening or closing the front door and access door**

The front door and access door could be damaged if they hit each other when being opened or closed.

The tailgate can be opened.

1 Pull the handle

2 Open the tailgate slowly

The support cables will hold the tailgate horizontal.

After closing the tailgate, try pulling it toward you to make sure it is securely locked.

Removing the tailgate

Before removing the tailgate (vehicles with rear view monitor system)

These connector covers are used when removing the tailgate, to prevent the back-up camera wire harness connectors from being contaminated.

A Connector cover (Gray)

B Connector cover (White)

Store the connector covers in the glove box in a plastic bag when not using.

To disconnect the wire harness connectors (1 and 2), press and hold the lock of the tailgate wire harness connector (White) and pull apart.

1 Tailgate wire harness connector (White)

2 Frame wire harness connector (Gray)

Attach the connector cover (white) to the frame wire harness connector (Gray).

B Connector cover (White)

2 Frame wire harness connector (Gray)

Pull out the plastic wire protector located in the vehicle bed by pressing the tabs and pulling the protector.

Be careful not to pull out all of the tailgate wire harness. Doing so may result in damage to vehicle components.

C Plastic wire protector

Open the tailgate.

Pull out the wire harness from the vehicle bed.

Attach the connector cover (Gray) to the tailgate wire harness connector (White).

1 Tailgate wire harness connector (White)

A Connector cover (Gray)

■ Removing the tailgate

Open the tailgate to the angle where you can release the brackets on the support cables from the lugs on both sides.
Lift the support cable bracket up and slide it off.

1 Support cable bracket

Tilt the tailgate to about 30° from vertical and pull up the right side of the tailgate to unhook the right side.

Slide the tailgate a little to the right to unhook the left side.

To attach the tailgate, follow the removal procedure in reverse order.

Rear step bumper

For rear end protection and easier step-up loading.

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

CAUTION

■ Before removing the tailgate (vehicles with rear view monitor system)

Disconnect the wire harness between the back-up camera and the vehicle. Failure to do so may result in serious injury or damage to the vehicle components.

■ Caution while driving

Observe the following precautions.
Failure to do so may result in death or serious injury.

- Do not drive with the tailgate open.
- Do not let anyone ride on the rear step bumper.

NOTICE

■ **To prevent damage to the tailgate wire harness (vehicles with rear view monitor system)**

Do not pull out all of the tailgate wire harness before open the tailgate.

■ **To prevent damage to the camera lens (vehicles with rear view monitor system)**

Store the removed tailgate with the back-up camera lens facing upward.

■ **After closing the tailgate**

Try pulling it toward you to make sure it is securely locked.

■ **To prevent damage to the rear step bumper**

Do not allow more than one person to get on the rear step bumper at a time.

Power windows*

The power windows can be opened/closed using the following switches.

▶Driver's power window switches

1 Closing

2 Opening

3 One-touch opening (driver's window only)*

*: To stop the window partway, operate the switch in the opposite direction.

▶Front and rear passenger's power window switch

1 Closing

2 Opening

Lock switch

Press the switch down to lock passenger window switches.

Use this switch to prevent children from accidentally opening or closing a passenger window.

*: If equipped

The power windows can be operated when

The engine switch is in the ON position.

Operating the power windows after turning the engine off

The power windows can be operated for approximately 43 seconds even after the engine switch is turned to the ACC or LOCK position. They cannot, however, be operated once either front door is opened.

CAUTION

Closing the windows

Observe the following precautions.
Failing to do so may result in death or serious injury.

- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when a window is being operated.
- Do not allow children to operate the power windows.
  Closing a power window on someone can cause serious injury, and in some instances, even death.

Back window (vehicles with sliding type)

The back window can be opened and closed using the lock release lever.

Open/close

Push the lock release lever and slide the back window.

Closing the back window

Make sure that the back window is securely closed after closing it.

CAUTION

While driving

Keep the back window closed.
This not only keeps personal belongings from being thrown out, but also prevents exhaust gases from entering the vehicle.

Opening the fuel tank cap

Perform the following steps to open the fuel tank cap.

■ Before refueling the vehicle

Turn the engine switch off and ensure that all the doors and windows are closed.

■ Opening the fuel tank cap

Open the fuel filler door.

Turn the fuel tank cap slowly to open.

Closing the fuel tank cap

When replacing the fuel tank cap, turn it until a clicking sound is heard.

After releasing your hand, the cap will turn slightly to the opposite direction.

Fuel types

Use unleaded gasoline. (Octane Rating 87 [Research Octane Number 91] or higher)

Fuel tank capacity

Approximately 21.1 gal. (80.0 L, 17.6 Imp.gal.)

CAUTION

Refueling the vehicle

Observe the following precautions while refueling the vehicle.
Failure to do so, may result in death or serious injury.

- Touch the vehicle or some other metal surface to discharge any static electricity.
  Sparks resulting from discharging static electricity may cause the fuel vapors to ignite.
- Always hold the grips on the fuel tank cap and turn it slowly to remove it.
  A whooshing sound may be heard when the fuel tank cap is loosened. Wait until the sound cannot be heard before fully removing the cap.
  In hot weather, pressurized fuel may spray out of the filler neck and cause injury.
- Do not allow anyone that has not discharged static electricity from their bodies to come close to an open fuel tank.

CAUTION

Refueling the vehicle

- Do not inhale vaporized fuel.
  Fuel contains substances that are harmful if inhaled.
- Do not smoke while refueling the vehicle.
  Doing so may cause the fuel to ignite and cause a fire.
- Do not return to the vehicle or touch any person or object that is statically charged.
  This may cause static electricity to build up, resulting in a possible engine hazard.

When replacing the fuel tank cap

Do not use anything but a genuine Toyota fuel tank cap designed for your vehicle. Doing so may cause a fire or other incident which may result in death or serious injury.

NOTICE

Refueling

Do not spill fuel during refueling.
Doing so may damage the vehicle, such as causing the exhaust systems to operate abnormally or damaging fuel system components or the vehicle's painted surface.

To prevent damage to the fuel filler door

Do not apply excessive force.

Engine immobilizer system*

The vehicle's keys have built-in transponder chips that prevent the engine from starting if the key has not been previously registered in the vehicle's on-board computer.

Never leave the keys inside the vehicle when you leave the vehicle.

The indicator light flashes after the key has been removed from the engine switch to indicate that the system is operating.

The indicator light stops flashing after the registered key has been inserted into the engine switch to indicate that the system has been canceled.

System maintenance

The vehicle has a maintenance-free type engine immobilizer system.

Conditions that may cause the system to malfunction

- If the key is in contact with a metallic object
- If the key is in close proximity to or touching a key to the security system (key with a built-in transponder chip) of another vehicle

*: If equipped

■ Certifications for the engine immobilizer system

▶ For vehicles sold in U.S.A.

FCC ID: MOZRI-21BTY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING:

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

▶ For vehicles sold in Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

▶For vehicles sold in New Caledonia

"Hereby, Tokai Rika Co., Ltd., declares that this RI-21BTY is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC."

TOKAI RIKA

R&TTE Declaration of Conformity

We,

Manufacturer's Name: Tokai Rika Co., Ltd.
Manufacturer's Address: 260, Toyota 3-chome, Oguchi-cho, Niwa-gun, Aichi-ken, 480-0195, Japan

hereby declare under our sole responsibility that the product:

Product Name: Immobilizer
Product Model: RI-21BTY

to which this declaration relates is in conformity with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC). The product is compliant with the following standards and/or other normative documents:

Safety: EN60950-1
EMC: EN301 489-1 & -3
Spectrum: EN300 330-2

Supplementary information:

* CE mark	CE
* Member states intended for use	EU and EFTA
* Member states with restrictive use	None

Date: 24 January 2007

Signature:

Position of the signatory: Tadashi Wakiya
General Manager,
Electronics Engineering Div.

⚠ NOTICE

■ **To ensure the system operates correctly**

Do not modify or remove the system. If modified or removed, the proper operation of the system cannot be guaranteed.

Correct driving posture

Drive in a good posture as follows:

1. Sit upright and well back in the seat. (→P. 47)
2. Adjust the position of the seat forward or backward to ensure the pedals can be reached and easily depressed to the extent required. (→P. 47)
3. Adjust the seatback so that the controls are easily operable.
4. Adjust the tilt and telescopic positions of the steering wheel downward so the airbag is facing your chest. (→P. 67)
5. Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P. 56)
6. Wear the seat belt correctly. (→P. 61)

CAUTION

■ **While driving**

- Do not adjust the position of the driver's seat while driving.
  Doing so could cause the driver to lose control of the vehicle.
- Do not place a cushion between the driver or passenger and the seatback.
  A cushion may prevent correct posture from being achieved, and reduce the effectiveness of the seat belt and head restraint, increasing the risk of death or serious injury to the driver or passenger.
- Do not place anything under the front seats.
  Objects placed under the front seats may become jammed in the seat tracks and stop the seat from locking in place. This may lead to an accident. The adjustment mechanism may also be damaged.

■ **Adjusting the seat position**

- Take care when adjusting the seat position to ensure that other passengers are not injured by the moving seat.
- Do not put your hands under the seat or near the moving parts to avoid injury.
  Fingers or hands may become jammed in the seat mechanism.

SRS airbags

The SRS airbags inflate when the vehicle is subjected to certain types of severe impacts that may cause significant injury to the occupants. They work together with the seat belts to help reduce the risk of death or serious injury.

▶ Front airbags

1 Driver airbag/front passenger airbag
Can help protect the head and chest of the driver and right front passenger from impact with interior components.

▶ Side and curtain shield airbags

2 Side airbags
Can help protect the torso of the front seat occupants.

3 Curtain shield airbags
Can help protect primarily the head of outside occupants.

Airbag system components

▶Vehicles with bench type front seat

▶Vehicles with separated type front seat

1. Front passenger airbag
2. Curtain shield airbags
3. Side airbags
4. AIR BAG ON and AIR BAG OFF indicator lights
5. SRS warning light and RSCA OFF indicator light (4WD models only)
6. Driver airbag
7. RSCA OFF switch (4WD models only)
8. Curtain shield airbag sensors (Access Cab and Double Cab models)
9. Seat belt pretensioners and force limiters
10. Side and curtain shield airbag sensors
11. Driver's seat position sensor
12. Driver's seat belt buckle switch
13. Front passenger's seat belt buckle switch
14. Front passenger occupant classification system (ECU and sensors)
15. Airbag sensor assembly
16. Front airbag sensors
17. Front passenger's seat position sensor
18. Belt tension sensor

Your vehicle is equipped with ADVANCED AIRBAGS designed based on the US motor vehicle safety standards (FMVSS208). The airbag sensor assembly (ECU) controls airbag deployment based on information obtained from the sensors etc. shown in the system components diagram above. This information includes crash severity and occupant information. As the airbags deploy, a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the motion of the occupants.

Bench type front seat: The SRS airbags are designed to protect the driver and right front passenger, and they are not designed to protect an occupant in the front center seating position.

■ SRS warning light

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensor assemblies, curtain shield airbag sensor assemblies (Access Cab and Double cab models), driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system (ECU and sensors), AIR BAG ON and AIR BAG OFF indicator lights, front passenger's seat position sensor (Bench type seat), front passenger's seat belt buckle switch, front seat belt pretensioner assemblies, belt tension sensor (Bench type seat), RSCA OFF indicator light (4WD models only), airbags, interconnecting wiring and power sources. (→P. 485)

■ If the SRS airbags deploy (inflate)

- Bruising and slight abrasions may result from contact with a deploying (inflating) SRS airbag.
- A loud noise and white powder will be emitted.
- Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the front seats, and parts of the front and rear pillars and roof side rail, may be hot for several minutes. The airbag itself may also be hot.
- The front windshield may crack.

■ Operating conditions (front airbags)

- The SRS front airbag will deploy in the event of an impact that exceeds the set threshold level (the level of force corresponding to an approximately 12-18 mph [20-30 km/h] frontal collision with a fixed wall that does not move or deform).

  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 the vehicle is involved in an underride collision (e.g. a collision in which the front of the vehicle "underrides", or goes under, the bed of a truck, etc.).

- Depending on the type of collision, it is possible that only the seat belt pretensioners will activate.
- The SRS front passenger airbag will not activate if there is no passenger sitting in the front passenger seat. However, the front passenger airbag may deploy if luggage is put in the seat, even if the seat is unoccupied. (→P. 100)

Operating conditions (side airbags and curtain shield airbags)

The SRS side airbags and SRS curtain shield airbags will deploy in the event of an impact that exceeds the set threshold level (the level of force corresponding to the impact force produced by an approximately 3300 lb. [1500 kg] vehicle colliding with the vehicle cabin from a direction perpendicular to the vehicle orientation at an approximate speed of 12-18 mph [20-30 km/h]).

Operating conditions (curtain shield airbags)

The SRS curtain shield airbags are designed to inflate when the passenger compartment is subjected to a severe impact from the side or vehicle rollover.

Conditions under which the SRS airbags may deploy (inflate), other than a collision

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

- Hitting a curb, edge of pavement or hard surface
- Falling into or jumping over a deep hole
- Landing hard or vehicle falling

The SRS curtain shield airbags may also deploy under the situation shown in the illustration.

- The angle of vehicle tip-up is marginal.
- The vehicle skids and hits a curb stone.

Types of collisions that may not deploy the SRS airbag (front airbags)

The SRS front airbags are generally 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. But, whenever a collision of any type causes sufficient forward deceleration of the vehicle, deployment of the SRS front airbags may occur.

- Collision from the side
- Collision from the rear
- Vehicle rollover

Types of collisions that may not deploy the SRS airbag (side airbags and curtain shield airbags)

The SRS side airbag and curtain shield airbag system may not activate if the vehicle is subjected to a collision from the side at certain angles, or a collision to the side of the vehicle body other than the passenger compartment.

- Collision from the side to the vehicle body other than the passenger compartment
- Collision from the side at an angle

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

- Collision from the front
- Collision from the rear
- Vehicle rollover

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

- Collision from the front
- Collision from the rear
- Pitching end over end

■ When to contact your Toyota dealer

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

- Any of the SRS airbags have been inflated.

- The front of the vehicle is damaged or deformed, or was involved in an accident that was not severe enough to cause the SRS airbags to inflate.

- A portion of a door is damaged or deformed, or the vehicle was involved in an accident that was not severe enough to cause the SRS side airbags and curtain shield airbags to inflate.

- The pad section of the steering wheel or dashboard near the front passenger airbag is scratched, cracked, or otherwise damaged.

- The surface of the seats with the side airbag is scratched, cracked or otherwise damaged.
- The portion of the front pillars, rear pillars or roof side rail garnishes (padding) containing the curtain shield airbags inside is scratched, cracked or otherwise damaged.

CAUTION

SRS airbag precautions

Observe the following precautions regarding the airbags.
Failure to do so may cause death or serious injury.

- The driver and all passengers in the vehicle must wear their seat belts properly.
  The SRS airbags are supplemental devices to be used with the seat belts.
- The SRS driver airbag deploys with considerable force, and can cause death or serious injury especially if the driver is very close to the airbag. The National Highway Traffic Safety Administration (“NHTSA”) advises:

  Since the risk zone for the driver’s airbag is the first 2 - 3 in. (50 - 75 mm) of inflation, placing yourself 10 in. (250 mm) from your driver airbag provides you with a clear margin of safety. This distance is measured from the center of the steering wheel to your breastbone. If you now sit less than 10 in. (250 mm) away, you can change your driving position in several ways:

  - Move your seat to the rear as far as you can while still reaching the pedals comfortably.
  - Slightly recline the back of the seat.
    Although vehicle designs vary, many drivers can achieve the 10 in. (250 mm) distance, even with the driver seat all the way forward, simply by reclining the back of the seat somewhat. If reclining the back of your seat makes it hard to see the road, raise yourself by using a firm, non-slippery cushion, or raise the seat if your vehicle has that feature.
  - If your steering wheel is adjustable, tilt it downward. This points the airbag toward your chest instead of your head and neck.

CAUTION

■ **SRS airbag precautions**

The seat should be adjusted as recommended by NHTSA above, while still maintaining control of the foot pedals and steering wheel, and your view of the instrument panel controls.

- If the seat belt extender has been connected to the front seat belt buckles but the seat belt extender has not also been fastened to the latch plate of the seat belt, the SRS front airbags will judge that the driver and front passenger are wearing the seat belt even though the seat belt has not been connected. In this case, the SRS front airbags may not activate correctly in a collision, resulting in death or serious injury in the event of a collision. Be sure to wear the seat belt with the seat belt extender.

- The SRS front passenger airbag also deploys with considerable force, and can cause death or serious injury especially if the front passenger is very close to the airbag. The front passenger seat should be as far from the airbag as possible with the seatback adjusted, so the front passenger sits upright.

- Improperly seated and/or restrained infants and children can be killed or seriously injured by a 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 seats of the vehicle and properly restrained. The rear seats are the safest for infants and children. (→P. 105)

CAUTION

SRS airbag precautions

- Do not sit on the edge of the seat or lean against the dashboard.

- Do not allow a child to stand in front of the SRS front passenger airbag unit or sit on the knees of a front passenger.
- Do not drive the vehicle while the driver or passenger has items resting on their knees.

- Do not lean against the door, the roof side rail or the front, side and rear pillars.

- Do not allow anyone to kneel on the passenger seat toward the door or put their head or hands outside the vehicle.

CAUTION

■ **SRS airbag precautions**

● Do not attach anything to or lean anything against areas such as the dashboard or steering wheel pad.
These items can become projectiles when SRS driver and front passenger airbags deploy.

● Do not attach anything to areas such as the door, windshield glass, side door glass, front and rear pillars, roof side rail or assist grip.

● Do not hang coat hangers or other hard objects on the coat hooks. All of these items could become projectiles and seriously injure or kill you, should the SRS curtain shield airbag deploy.

● Bench type front seat: Do not use a seat accessory, such as a cushion or seat cover, that covers the seat cushion surface.

● Do not use seat accessories which cover the parts where the SRS side airbags inflate as they may interfere with inflation of the airbags.

● Do not strike or apply significant levels of force to the area of the SRS airbag components (→P. 87).
Doing so can cause the SRS airbags to malfunction.

● Do not touch any of the component parts immediately after the SRS airbags have deployed (inflated) as they may be hot.

● If breathing becomes difficult after the SRS airbag has deployed, open a door or window to allow fresh air in, or leave the vehicle if it is safe to do so. Wash off any residue as soon as possible to prevent skin irritation.

● If the areas where the SRS airbags are stored, such as the steering wheel pad and front and rear pillar garnishes, are damaged or cracked, have them replaced by your Toyota dealer.

CAUTION

Modification and disposal of SRS airbag system components

Do not dispose of your vehicle or perform any of the following modifications without consulting your Toyota dealer.
The SRS airbags may malfunction or deploy (inflate) accidentally, causing death or serious injury.

- Installation, removal, disassembly and repair of the SRS airbags.
- Repairs, modifications, removal or replacement of the steering wheel, instrument panel, dashboard, seats or seat upholstery, front, side and rear pillars or roof side rails.
- Repairs or modifications of the front fender, front bumper, or side of the occupant compartment.
- Installation of a grille guard (bull bars, kangaroo bar, etc.), snow plows, winches or roof luggage carrier.
- Modifications to the vehicle's suspension system.
- Do not use tires or wheels other than the manufacturer's recommended size. (→P. 542)
- Installation of electronic devices such as mobile two-way radios or CD players.
- Modifications to your vehicle for a person with a physical disability.

Deactivating the curtain shield airbags in a vehicle rollover (4WD models only)

On/off (hold for a few seconds)

The RSCA OFF indicator turns on (only when the engine switch is in the ON position.)

The roll sensing function for the curtain shield airbags and seat belt pretensioners will turn back on automatically each time the engine switch is turned on.

The switch only should be used

In a situation where inflation is not desired (such as during extreme off-road driving).

Operating conditions when the RSCA OFF indicator is on

- The curtain shield airbag and seat belt pretensioner will not activate in a vehicle rollover.
- The curtain shield airbag will activate in a severe side impact.
- The pretensioner will active in a severe frontal collision.

CAUTION

For normal driving

Make sure the RSCA OFF indicator is not turned on. If it is left on, the curtain shield airbag will not activate in the event of an accident, which may result in death or serious injury.

Front passenger occupant classification system

Your vehicle is equipped with a front passenger occupant classification system. This system detects the conditions of the right front passenger seat and activates or deactivates the devices for the front passenger.

1 SRS warning light

2 Front passenger's seat belt reminder light

3 AIR BAG OFF indicator light

4 AIR BAG ON indicator light

Conditions and operation of the front passenger occupant classification system

Adult*1

Indicator/ warning light	AIR BAG ON and AIR BAG OFF indicator lights	AIR BAG ON
	SRS warning light	Off
	Front passenger's seat belt reminder light	Flashing*2
Devices	Front passenger airbag	Activated
	Side airbag on the front passenger seat	
	Curtain shield airbag in the front passenger side	
	Front passenger's seat belt pretensioner	

Child*3 or child restraint system*4

Indicator/ warning light	AIR BAG ON and AIR BAG OFF indicator lights	AIR BAG OFF*5
	SRS warning light	Off
	Front passenger's seat belt reminder light	Flashing*2
Devices	Front passenger airbag	Deactivated
	Side airbag on the front passenger seat	Activated
	Curtain shield airbag in the front passenger side	
	Front passenger's seat belt pretensioner	

■ Unoccupied

Indicator/ warning light	AIR BAG ON and AIR BAG OFF indicator lights	Not illuminated
	SRS warning light	Off
	Front passenger's seat belt reminder light	
Devices	Front passenger airbag	Deactivated
	Side airbag on the front passenger seat	Activated
	Curtain shield airbag in the front passenger side	
	Front passenger's seat belt pretensioner	Deactivated

■ There is a malfunction in the system

Indicator/ warning light	AIR BAG ON and AIR BAG OFF indicator lights	AIR BAG OFF
	SRS warning light	On
	Front passenger's seat belt reminder light	Off
Devices	Front passenger airbag	Deactivated
	Side airbag on the front passenger seat	Activated
	Curtain shield airbag in the front passenger side	
	Front passenger's seat belt pretensioner	

*1: The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.

*2: In the event the front passenger does not wear a seat belt.

*3: When a larger child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending on his/her physique or posture.

*4: Never install a rear-facing child restraint system on the front passenger seat. A forward-facing child restraint system should only be installed on the front passenger seat when it is unavoidable. (→P. 105)

*5: In case the indicator is not illuminated, consult this manual for installing the child restraint system properly. (→P. 109)

CAUTION

■ Front passenger occupant classification system precautions

Observe the following precautions regarding front passenger occupant classification system.
Failure to do so may cause death or serious injury.

- Wear the seat belt properly.
- Make sure the front passenger's seat belt tab has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the AIR BAG OFF indicator light is not illuminated when using the seat belt extender for the front passenger seat. If the AIR BAG OFF indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, then reconnect the seat belt. Reconnect the seat belt extender after making sure the AIR BAG ON indicator light is illuminated. If you use the seat belt extender while the AIR BAG OFF indicator light is illuminated, the SRS airbags for the passenger may not activate correctly, which could cause death or serious injury in the event of collision.
- Do not place a heavy load on the front passenger seat or equipment (e.g. seatback table).
- Do not apply pressure to the front passenger seat by resting hands or legs on the seatback.
- Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
- Do not put objects under the front passenger seat.

CAUTION

Front passenger occupant classification system precautions

- Do not recline the front passenger seatback so far that it touches a rear seat or a back wall. This may cause the AIR BAG OFF indicator light to be illuminated, which indicates that the passenger's airbags will not deploy in the event of a severe accident. If the seatback touches the rear seat or back wall, return the seatback to a position where it does not touch the rear seat or back wall. Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.
- If an adult sits in the front passenger seat, the AIR BAG ON indicator light is illuminated. If the AIR BAG OFF indicator is illuminated, ask the passenger to sit up straight, well back in the seat, feet on the floor, and with the seat belt worn correctly. If the AIR BAG OFF indicator still remains illuminated, either ask the passenger to move to the rear seat, or if that is not possible, move the front passenger seat fully rearward.
- When it is unavoidable to install the forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. (→P. 109)
- Do not modify or remove the front seats.
- Do not kick the front passenger seat or subject it to severe impact. Otherwise, the SRS warning light may come on to indicate a malfunction of the detection system. In this case, contact your Toyota dealer immediately.
- Child restraint systems installed on the rear seat should not contact the front seatbacks.
- Do not use a seat accessory, such as a cushion or seat cover, that covers the seat cushion surface.
- Access Cab and Double Cab models: Do not attach a commercial seatback table or other heavy item to the back of the front passenger seat.
- Do not modify or replace the upholstery of the front seat.

Child restraint systems

A child restraint system for a small child or baby must itself be properly restrained on the seat with the lap portion of the lap/shoulder belt.

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

Points to remember

Studies have shown that installing a child restraint on a rear seat is much safer than installing one to the front passenger seat.

- Choose a child restraint system that suits your vehicle and is appropriate to the age and size of the child.
- For installation details, follow the instructions provided with the child restraint system.
  General installation instructions are provided in this manual.
  (→P. 109)

Types of child restraints

Child restraint systems are classified into the following 3 types according to the age and size of the child.

▶ Rear facing — Infant seat/convertible seat (Access Cab and Double Cab models only)

▶ Forward facing — Convertible seat

▶ Booster seat

■ **Selecting an appropriate child restraint system**

- Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belt.
- If a child is too large for a child restraint system, sit the child on a rear seat and use the vehicle's seat belt. (→P. 61)

CAUTION

Child restraint precautions

- 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.
- Regular Cab models: Toyota strongly urges use of a proper child restraint system which conforms to the size of the child.
- Access Cab and Double Cab models: Toyota strongly urges the use of a proper child restraint system that conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never install a rear-facing child restraint system on the front passenger seat even if the AIR BAG OFF indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.
- Access Cab and Double Cab models: A forward-facing child restraint system may be installed on the front passenger seat only when it is unavoidable. A child restraint system that requires a top tether strap should not be used in the front passenger seat since there is no top tether strap anchor for the front passenger seat. Adjust the seatback as upright as possible and always move the seat as far back as possible even if AIR BAG OFF indicator light is illuminated, because the front passenger airbag could inflate with considerable speed and force. Otherwise, the child may be killed or seriously injured.
- Bench type front seat: Do not install a child restraint system on the center seat if it interferes with driving operations such as gear shifting. In this case, install the child restraint system on the right passenger seat.
- Bench type front seat: The driver and passengers sit on a bench seat in this vehicle. Therefore, when installing a child restraint system, the seat must be moved back from the SRS airbag as far as possible while also maintaining the driver's seating position. Otherwise, the force of the rapid inflation of the airbag could cause death or serious injury to the child.

CAUTION

■ **Child restraint precautions**

- Do not use the seat belt extender when installing a child restraint system on the front or rear passenger seat. If installing a child restraint system with the seat belt extender connected to the seat belt, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of a sudden stop, sudden swerve or an accident.
- Do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat, front and rear pillars or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbags and curtain shield airbags inflate, and the force of the rapid inflation 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. If it is not secured properly, it may cause death or serious injury to the child in the event of a sudden stop, sudden swerve or an accident.

■ **When children are in the vehicle**

Do not allow children to play with the seat belt. If the seat belt becomes twisted around a child's neck, it may lead to choking or other serious injuries that could result in death. If this occurs and the buckle cannot be unfastened, scissors should be used to cut the belt.

■ **When the child restraint system is not in use**

- Keep the child restraint system properly secured on the seat even if it is not in use. Do not store the restraint unsecured in the passenger compartment.
- If it is necessary to detach the child restraint system, remove it from the vehicle. This will prevent it from injuring passengers in the event of a sudden stop, sudden swerve or an accident.

Installing child restraints

Follow the child restraint system manufacturer's instructions. Firmly secure child restraints to the seats using the LATCH anchors or a seat belt. Attach the top tether strap when installing a child restraint.

The lap/shoulder belt can be used if your child restraint system is not compatible with the LATCH (Lower Anchors and Tethers for Children) system.

■ Using the LATCH anchors

▶Access Cab models

Child restraint LATCH anchors

LATCH anchors are provided for the each rear seat.

▶Double Cab models

Child restraint LATCH anchors

LATCH anchors are provided for the outside rear seats.

Buttons displaying the location of the anchors are attached to the seats.

■ Using the seat belts

Seat belts equipped with a child restraint locking mechanism (ALR/ELR belts except driver's seat belt) (→P. 61)

■ Using the top tether strap

▶Regular Cab models with bench type seat

Anchor bracket (for top tether strap)

Anchor bracket is provided for each passenger seat.

▶Regular Cab models with separated type seat

Anchor bracket (for top tether strap)

Anchor bracket is provided for passenger seat.

▶Access Cab models

Anchor bracket (for top tether strap)

Anchor bracket is provided for each rear seat.

▶Double Cab models

Anchor bracket (for top tether strap)

Anchor bracket is provided for each rear seat.

Installation with LATCH system (Access Cab models)

▶Type A

STEP 1 Latch the hooks of the lower straps onto the LATCH anchors and tighten the lower straps.

STEP 2 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

For owners in Canada:
A symbol on a child restraint system indicates the presence of a lower connector system.

▶Type B

STEP 1 Latch the buckles onto the LATCH anchors.

STEP 2 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

For owners in Canada:
A symbol on a child restraint system indicates the presence of a lower connector system.

Installation with LATCH system (Double Cab models)

▶Type A

STEP 1 Widen the gap between the seat cushion and seatback slightly.

STEP 2 Latch the hooks of the lower straps onto the LATCH anchors and tighten the lower straps.

STEP 3 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

For owners in Canada:
A symbol on a child restraint system indicates the presence of a lower connector system.

▶Type B

STEP 1 Widen the gap between the seat cushion and seatback slightly.

STEP 2 Latch the buckles onto the LATCH anchors.

STEP 3 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

For owners in Canada:
A symbol on a child restraint system indicates the presence of a lower connector system.

Installing child restraints using a seat belt (child restraint lock function belt)

■ Rear-facing (Regular Cab models) — Infant seat/convertible seat

Never install a rear-facing child restraint. Your vehicle is not designed to carry an infant.

■ Rear-facing (Access Cab and Double Cab models) — Infant seat/convertible seat

Place the child seat on the rear seat facing the rear of the vehicle.

Run the seat belt through the child seat and insert the plate into the buckle. Make sure that the belt is not twisted.

Fully extend the shoulder belt and then allow it to retract slightly in order to activate the ALR lock mode.

Lock mode allows the seat belt to retract only.

While pushing the child seat down into the rear seat, allow the shoulder belt to retract until the child seat is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.

■ Forward-facing — Convertible seat

Place the child seat on the seat facing the front of the vehicle.

Run the seat belt through the child seat and insert the plate into the buckle. Make sure that the belt is not twisted.

Fully extend the shoulder belt and then allow it to retract slightly in order to activate the ALR lock mode.

Lock mode allows the seat belt to retract only.

While pushing the child seat into the seat, allow the shoulder belt to retract until the child seat is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.

STEP 5 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor. (→P. 120, 123, 124)

■ Booster seat

Place the booster seat on the seat facing the front of the vehicle.

Sit the child in the booster seat. Fit the seat belt to the booster seat according to the manufacturer's instructions and insert the plate into the buckle. Make sure that the belt is not twisted.

Check that the shoulder belt is correctly positioned over the child's shoulder, and that the lap belt is as low as possible.
(→P. 61)

Removing a child restraint installed with a seat belt

Push the buckle release button and fully retract the seat belt.

Child restraint systems with a top tether strap (Regular Cab models)

■ Bench type seat

Remove the head restraint.

Installing position:

1 Right side passenger seat

2 Center passenger seat

Swing the seatback forward slightly (→P. 48) and remove the anchor bracket covers.

Installing position:

1 Right side passenger seat

2 Center passenger seat

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

▶ Right side passenger seat

1 Route the top tether strap through the routing device as shown in the illustration.

Make sure the top tether strap is not twisted.

2 Latch the hook onto the anchor bracket.

3 Return the seatback to its original position.

Make sure the seatback is securely locked by pushing forward and rearward on the top of the seatback.

▶Center passenger seat

1 Route the top tether strap through the routing device as shown in the illustration.

Make sure the top tether strap is not twisted.

2 Latch the hook onto the anchor bracket.

3 Return the seatback to its original position.

Make sure the seatback is securely locked by pushing forward and rearward on the top of the seatback.

STEP 4 Secure the child restraint using a seat belt or lower anchors, and tighten the top tether strap.

Make sure the top tether strap is securely latched.

Replace the head restraint.

Installing position:

1 Right side passenger seat

2 Center passenger seat

■ Separated type seat

Remove the head restraint.

Swing the seatback forward slightly (→P. 47) and remove the anchor bracket cover.

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

1 Route the top tether strap through the routing device as shown in the illustration.

Make sure the top tether strap is not twisted.

2 Latch the hook onto the anchor bracket.

3 Return the seatback to its original position.

Make sure the seatback is securely locked by pushing forward and rearward on the top of the seatback.

STEP 4 Secure the child restraint using a seat belt or lower anchor, and tighten the top tether strap.

Make sure the top tether strap is securely latched.

Replace the head restraint.

Child restraint systems with a top tether strap (Access Cab models)

Remove the anchor bracket covers.

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

STEP 2 Secure the child restraint using a seat belt or lower anchors.

1 Route the top tether strap through the routing device as shown in the illustration.

Make sure the top tether strap is not twisted.

2 Latch the hook onto the anchor bracket and tighten the top tether strap.

Make sure the top tether strap is securely latched.

Child restraint systems with a top tether strap (Double Cab models)

Remove the head restraint.

Installing position:

1 Outside passenger seat

2 Center passenger seat

▶ Outside passenger seat

1 Swing the seatback forward slightly. (→P. 53)

2 Latch the hook onto the anchor bracket.

3 Return the seatback to its original position.

Make sure the seatback is securely locked by pushing forward and rearward on the top of the seatback.

▶ Center passenger seat

1 Swing the seatback forward slightly. (→P. 53)

2 Latch the hook onto the anchor bracket.

3 Return the seatback to its original position.

Make sure the seatback is securely locked by pushing forward and rearward on the top of the seatback.

STEP 3 Secure the child restraint using a seat belt or lower anchors, and tighten the top tether strap.

Make sure the top tether strap is securely latched.

Replace the head restraint.

Installing position:

1 Outside passenger seat

2 Center passenger seat

Laws and regulations pertaining to anchorages

The LATCH system conforms to FMVSS225 or CMVSS210.2.
Child restraint systems conforming to FMVSS213 or CMVSS213 specifications can be used.
This vehicle is designed to conform to the SAE J1819.

CAUTION

When installing a booster seat

Do not fully extend the shoulder belt to prevent the belt from going to ALR lock mode. (→P. 63)
ALR mode causes the belt to tighten only which could cause injury or discomfort to the child.

When installing a child restraint system

Follow the directions given in the child restraint system installation manual and fix the child restraint system securely in place.
If the child restraint system is not correctly fixed in place, the child or other passengers may be seriously injured or even killed in the event of sudden braking, sudden swerving or an accident.

- Access Cab and Double Cab models: If the driver's seat interferes with the child restraint system and prevents it from being attached correctly, attach the child restraint system to the right-hand rear seat.
- Access Cab and Double Cab models: Adjust the front passenger seat so that it does not interfere with the child restraint system.

- Only put a forward-facing or booster child seat on the front seat when it is unavoidable. When installing a forward-facing or booster child seat on the front passenger seat, move the seat as far back as possible even if AIR BAG OFF indicator light is illuminated. Failing to do so may result in death or serious injury if the airbags deploy (inflate).

CAUTION

When installing a child restraint system

- When a booster seat is installed, always ensure that the shoulder belt is positioned across the center of the child's shoulder. The belt should be kept away from the child's neck, but not so that it could fall off the child's shoulder. Failing to do so may result in death or serious injury in the event of sudden braking, sudden swerving or an accident.
- Ensure that the belt and tab are securely locked and the seat belt is not twisted.
- Push and pull the child restraint system from side to side and forward to be sure it is secure.
- After securing the child restraint system, never adjust the seat.
- Follow all installation instructions provided by the child restraint system manufacturer.

Do not use a seat belt extender

If a seat belt extender is used when installing a child restraint system, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of sudden braking, sudden swerving or an accident.

To correctly attach a child restraint system to the anchors

When using the LATCH anchors, be sure that there are no foreign objects around the anchors and that the seat belt is not caught behind the child restraint. Make sure the child restraint system is securely attached, or it may cause death or serious injury to the child or other passengers in the event of a sudden stop, sudden swerve or accident.

Gauges and meters

The following gauges, meters and displays illuminate when the engine switch is in the ON position.

1 Tachometer

Displays the engine speed in revolutions per minute.

2 Speedometer

Displays the vehicle speed.

3 Engine coolant temperature gauge

Displays the engine coolant temperature.

4 Fuel gauge

Displays the quantity of fuel remaining in the tank.

5 ODO/TRIP button

Switches between odometer and trip meter displays. Pushing and holding the button will reset the trip meter when the trip meter is being displayed.

6 Odometer/trip meter

Odometer:
Displays the total distance the vehicle has been driven.

Trip meter:
Displays the distance the vehicle has been driven since the meter was last reset. Trip meters A and B can be used to record and display different distances independently.

Odometer and trip meter display button

Pressing this button switches between odometer and trip meter displays.

1 Odometer

2 Trip meter A*

3 Trip meter B*

*: Pushing and holding the button will reset the trip meter.

Instrument panel light control

The brightness of the instrument panel lights can be adjusted.

1 Brighter

2 Darker

NOTICE

To prevent damage to the engine and its components

- Do not let the indicator needle of the tachometer enter the red zone, which indicates the maximum engine speed.
- The engine may be overheating if the engine coolant temperature gauge is in the red zone (H). In this case, immediately stop the vehicle in a safe place, and check the engine after it has cooled completely. (→P. 518)

Indicators and warning lights

The indicator and warning lights on the instrument cluster and center panel inform the driver of the status of the vehicle's various systems.

►Instrument cluster

►Center panel

Indicators

The indicators inform the driver of the operating state of the vehicle's various systems.

Turn signal indicator (→P. 151)	Headlight high beam indicator (→P. 163)
Headlight indicator (→P. 162) (U.S.A.)	Tail light indicator (→P. 162) (Canada)
Security indicator (→P. 81) (if equipped)	Shift position and shift range indicators (→P. 144) (5-speed automatic transmission vehicles)
Shift position and shift range indicators (→P. 144) (4-speed automatic transmission vehicles)	Cruise control indicator (→P. 172) (if equipped)
*1,2 Slip indicator (→P. 191, 193, 202)	*1 VSC OFF indicator (→P. 193, 202, 203)
*1 TRAC OFF indicator (→P. 202, 203)	*1 Downhill assist control system indicator (→P. 198) (if equipped)
*1,5 RSCA OFF indicator (→P. 99)	Active traction control system indicator (→P. 191) (if equipped)
*1 AUTO LSD indicator (→P. 193)	Four-wheel drive indicator (→P. 187) (4WD models)
4LO indicator (→P. 187) (4WD models)	*1 Rear differential lock indicator (→P. 195) (if equipped)

AIR BAG ON indicator (→P. 100)

AIR BAG OFF indicator (→P. 100)

■ Warning lights

Warning lights inform the driver of malfunctions in any of the vehicle's systems. (→P. 484)

*1: These lights turn on when the engine switch is turned to the ON position to indicate that a system check is being performed. They will turn off after the engine is started, or after a few seconds. There may be a malfunction in a system if a light does not come on, or if the lights do not turn off. Have the vehicle inspected by your Toyota dealer.

*2: The indicator flashes to indicate that the system is operating.

*3: The indicator light comes on to indicate a malfunction.

*4: The indicator flashes to indicate a malfunction.

*5: For 2WD models, even though there is no function of deactivating the curtain shield airbags in a vehicle rollover, the RSCA OFF indicator turns on briefly when the engine switch is turned to the ON position. But this is not a malfunction.

CAUTION

If a safety system warning light does not come on

Should a safety system light such as ABS and the SRS airbag warning light not come on when you start the engine, this could mean that these systems are not available to help protect you in an accident, which could result in death or serious injury. Have the vehicle inspected by your Toyota dealer immediately if this occurs.

Cruise control*

Use the cruise control to maintain a set speed without depressing the accelerator pedal.

1 Indicator

2 Cruise control switch

■ Setting the vehicle speed

Press the ON-OFF button to activate the cruise control.

Cruise control indicator will come on.

Press the button again to deactivate the cruise control.

Accelerate or decelerate the vehicle to the desired speed, and push the lever down to set the speed.

The vehicle speed at the moment the lever is released becomes the set speed.

*: If equipped

Adjusting the set speed

To change the set speed, operate the lever until the desired set speed is obtained.

STY24AF037

1 Increases the speed

2 Decreases the speed

Fine adjustment: Momentarily move the lever in the desired direction.

Large adjustment: Hold the lever in the desired direction.

The set speed will be increased or decreased as follows:

Fine adjustment: By approximately 1 mph (1.6 km/h) each time the lever is operated.

Large adjustment: The set speed can be increased or decreased continually until the lever is released.

Canceling and resuming the constant speed control

STY24AF038

1 Pulling the lever toward you cancels the constant speed control.

The speed setting is also canceled when the brakes are applied or the clutch pedal (manual transmission only) is depressed.

2 Pushing the lever up resumes the constant speed control.

Resuming is available when the vehicle speed is more than approximately 25 mph (40 km/h).

Cruise control can be set when

- The shift lever is in the D or range 4. (vehicles with 5-speed automatic transmission)
- The shift lever is in the D or range 3. (vehicles with 4-speed automatic transmission)
- Vehicle speed is above approximately 25 mph (40 km/h).

Accelerating after setting the vehicle speed

- The vehicle can be accelerated normally. After acceleration, the set speed resumes.
- Even without canceling the cruise control, the set speed can be increased by first accelerating the vehicle to the desired speed and then pushing the lever down to set the new speed.

Automatic cruise control cancelation

Cruise control will stop maintaining the vehicle speed in any of the following situations.

- Actual vehicle speed falls more than approximately 10 mph (16 km/h) below the preset vehicle speed.
  At this time, the memorized set speed is not retained.
- Actual vehicle speed is below approximately 25 mph (40 km/h).
- VSC is activated.

If the cruise control indicator light flashes

Press the ON-OFF button once to deactivate the system, and then press the button again to reactivate the system.
If the cruise control speed cannot be set or if the cruise control cancels immediately after being activated, there may be a malfunction in the cruise control system. Have the vehicle inspected by your Toyota dealer.

CAUTION

■ **To avoid operating the cruise control by mistake**

Switch the cruise control off using the ON-OFF button when not in use.

■ **Situations unsuitable for cruise control**

Do not use cruise control in any of the following situations.
Doing so may result in loss of control and could cause an accident resulting in death or serious injury.

- In heavy traffic
- On roads with sharp bends
- On winding roads
- On slippery roads, such as those covered with rain, ice or snow
- On steep hills
  Vehicle speed may exceed the set speed when driving down a steep hill.
- When your vehicle is towing a trailer or during emergency towing

Rear view monitor system*

The rear view monitor system assists the driver by displaying guide lines and an image of the view behind the vehicle while backing up, for example while parking.

The screen illustrations used in this text are intended as examples, and may differ from the image that is actually displayed on the screen.

► Vehicles with Entune Audio Plus or Entune Premium Audio (Multimedia system types: →P. 253)

Refer to the “NAVIGATION SYSTEM OWNER’S MANUAL”.

► Vehicles with Entune Audio (Multimedia system types: →P. 253)

The rear view image is displayed when the shift position is in R and the engine switch is in the “ON” position.

The rear view monitor system will be deactivated when the shift lever is in any position other than R.

1 Automatic transmission
2 Manual transmission
3 Screen

*: If equipped

Using the rear view monitor system

Screen description

STS24AD005

1 Vehicle width guide lines

The line indicates a guide path when the vehicle is being backed straight up.
The displayed width is wider than the actual vehicle width.

2 Vehicle center guide lines

These lines indicate the estimated vehicle center on the ground.

3 Distance guide line

The line shows points approximately 1.5 ft. (0.5 m) (red) from the center of the edge of the bumper.

4 Distance guide line

The line shows distance behind the vehicle, a point approximately 3 ft. (1 m) (blue) from the edge of the bumper.

Rear view monitor system precautions

■ Area displayed on screen

The rear view monitor system displays an image of the view from the bumper of the rear area of the vehicle.

To adjust the image on the rear view monitor system screen. (→P. 263)

- The area displayed on the screen may vary according to vehicle orientation conditions.
- Objects which are close to either corner of the bumper or under the bumper cannot be seen on the screen.
- The camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance.
- Items which are located higher than the camera may not be displayed by the monitor.

■ Rear view monitor system camera

The camera for the rear view monitor system is located as shown in the illustration.

● Using the camera

If the camera lens becomes dirty, it cannot transmit a clear image. If water droplets, snow or mud adhere to the lens, rinse it with water and wipe with a soft cloth. If the lens is extremely dirty, wash it with a mild cleanser and rinse.

■ Differences between the screen and the actual road

The distance guide lines and the vehicle width guide lines may not actually be parallel with the dividing lines of the parking space, even when they appear to be so. Be sure to check visually.

The distances between the vehicle width guide lines and the left and right dividing lines of the parking space may not be equal, even when they appear to be so. Be sure to check visually.

The distance guide lines give a distance guide for flat road surfaces. In any of the following situations, there is a margin of error between the fixed guide lines on the screen and the actual distance/course on the road.

● When the ground behind the vehicle slopes up sharply

The distance guide lines will appear to be closer to the vehicle than the actual distance. Because of this, objects will appear to be farther away than they actually are. In the same way, there will be a margin of error between the guidelines and the actual distance/course on the road.

● When the ground behind the vehicle slopes down sharply

The distance guide lines will appear to be further from the vehicle than the actual distance. Because of this, objects will appear to be closer than they actually are. In the same way, there will be a margin of error between the guidelines and the actual distance/course on the road.

● When any part of the vehicle sags

When any part of the vehicle sags due to the number of passengers or the distribution of the load, there is a margin of error between the fixed guide lines on the screen and the actual distance/course on the road.

■ When approaching three-dimensional objects

The distance guide lines are displayed according to flat surfaced objects (such as the road). It is not possible to determine the position of three-dimensional objects (such as vehicles) using the distance guide lines. When approaching a three-dimensional object that extends outward (such as the flatbed of a truck), be careful of the following.

● Distance guidelines

Visually check the surroundings and the area behind the vehicle. On the screen, it appears that a truck is parked at point 2. However, in reality if you back up to point 1, you will hit the truck. On the screen, it appears that 1 is closest and 3 is furthest away. However, in reality, the distance to 1 and 3 is the same, and 2 is farther than 1 and 3.

■ Vehicle width guide lines

Visually check the surroundings and the area behind the vehicle. In the case shown below, the truck appears to be outside of the vehicle width guide lines and the vehicle does not look as if it hits the truck. However, the rear body of the truck may actually cross over the vehicle width guide lines. In reality if you back up as guided by the vehicle width guide lines, the vehicle may hit the truck.

Things you should know

■ If you notice any symptoms

If you notice any of the following symptoms, refer to the likely cause and the solution, and re-check.

If the symptom is not resolved by the solution, have the vehicle inspected by your Toyota dealer.

Symptom	Likely cause	Solution
The image is difficult to see	• The vehicle is in a dark area • The temperature around the lens is either high or low • The outside temperature is low • There are water droplets on the camera • It is raining or humid • Foreign matter (mud, etc.) is adhering to the camera • There are scratches on the camera • Sunlight or headlights are shining directly into the camera • The vehicle is under fluorescent lights, sodium lights, mercury lights, etc.	If this happens due to these causes, it does not indicate a malfunction. Back up while visually checking the vehicle's surroundings. (Use the monitor again once conditions have been improved.) To adjust the image on the rear view monitor system screen. (→P. 263)
The image is blurry	Dirt or foreign matter (such as water droplets, snow, mud etc.) is adhering to the camera.	Rinse the camera lens with water and wipe it clean with a soft cloth. Wash with a mild soap if the dirt is stubborn.
The image is out of alignment	The camera or surrounding area has received a strong impact.	Have the vehicle inspected by your Toyota dealer.

Symptom	Likely cause	Solution
The fixation guide lines are very far out of alignment	• The vehicle is tilted (there is a heavy load on the vehicle, tire pressure is low due to a tire puncture, etc.) • The vehicle is used on an incline.	If this happens due to these causes, it does not indicate a malfunction. Back up while visually checking the vehicle's surroundings.
	The camera position is out of alignment.	Have the vehicle inspected by your Toyota dealer.

CAUTION

■ **When using the rear view monitor system**

The rear view monitor system is a supplemental device intended to assist the driver when backing up. When backing up, be sure to check visually behind and all around the vehicle before proceeding.

Observe the following precautions to avoid an accident that could result in death or serious injuries.

- Never depend on the rear view monitor system entirely when backing up. The image and the position of the guide lines displayed on the screen may differ from the actual state.
  Use caution, just as you would when backing up any vehicle.
- Be sure to back up slowly, depressing the brake pedal to control vehicle speed.
- The instructions given are only guidelines.
  When and how much to turn the steering wheel will vary according to traffic conditions, road surface conditions, vehicle condition, etc., when parking. It is necessary to be fully aware of this before using the rear view monitor system.
- When parking, be sure to check that the parking space will accommodate your vehicle before maneuvering into it.
- Do not use the rear view monitor system in the following cases:
  - On icy or slick road surfaces, or in snow
  - When using tire chains or the compact spare tire
  - When the tailgate is not closed completely
  - On roads that are not flat or straight, such as curves or slopes.
- In low temperatures, the screen may darken or the image may become faint. The image could distort when the vehicle is moving, or you may become unable to see the image on the screen. Be sure to directly check visually and with the mirrors all around the vehicle before proceeding.
- If the tire sizes are changed, the position of the fixed guide lines displayed on the screen may change.
- The camera uses a special lens. The distances between objects and pedestrians that appear in the image displayed on the screen will differ from the actual distances. (→P. 180)

NOTICE

How to use the camera

- The rear view monitor system may not operate properly in the following cases.
  - If the back of the vehicle is hit, the position and mounting angle of the camera may change.
  - As the camera has a water proof construction, do not detach, disassemble or modify it. This may cause incorrect operation.
  - Do not strongly rub the camera lens. If the camera lens is scratched, it cannot transmit a clear image.
  - Do not allow organic solvent, car wax, window cleaner or glass coat to adhere to the camera. If this happens, wipe it off as soon as possible.
  - If the temperature changes rapidly, such as when hot water is poured on the vehicle in cold weather, the system may not operate normally.
  - When washing the vehicle, do not apply intensive bursts of water to the camera or camera area. Doing so may result in the camera malfunctioning.
  - When the camera is used under fluorescent lights, sodium light or mercury light, etc., the lights and the illuminated areas may appear to flicker.
- Do not expose the camera to strong impact as this could cause a malfunction. If this happens, have the vehicle inspected by your Toyota dealer as soon as possible.

Four-wheel drive system*

Use the front-wheel drive control switch to select the following transfer modes.

1 H2 (high speed position, two-wheel drive)

Use this for normal driving on dry hard-surfaced roads. This position gives greater economy, quietest ride and least wear.

2 H4 (high speed position, four-wheel drive)

Use this for driving only on tracks that permit the tires slide, like off-road, icy or snow-covered roads. This position provides greater traction than two-wheel drive.

The four-wheel drive indicator comes on.

3 L4 (low speed position, four-wheel drive)

Use this for maximum power and traction. Use L4 for climbing or descending steep hills, off-road driving, and hard pulling in sand, mud or deep snow.

The four-wheel drive and 4LO indicators come on.

*: If equipped

Shifting between H4 and L4

■ Shifting from H4 to L4

▶Automatic transmission

STEP 1 Stop the vehicle completely with brake pedal help down.

STEP 2 Shift the shift lever to N.

STEP 3 Push and turn the front-wheel drive control switch fully clockwise.
If the four-wheel drive indicator flashes and the buzzer sounds, try the above steps again.

▶Manual transmission

STEP 1 Stop the vehicle or reduce your speed to less than 2 mph (3 km/h).

STEP 2 Depress and hold the clutch pedal.

STEP 3 Push and turn the front-wheel drive control switch fully clockwise.
If the four-wheel drive indicator flashes and the buzzer sounds, try the above steps again.

■ Shifting from L4 to H4

▶Automatic transmission

STEP 1 Stop the vehicle completely with brake pedal help down.

STEP 2 Shift the shift lever to N.

STEP 3 Turn the front-wheel drive control switch counterclockwise.
If the four-wheel drive indicator flashes and the buzzer sounds, try the above steps again.

▶Manual transmission

STEP 1 Stop the vehicle or reduce your speed to less than 2 mph (3 km/h).

STEP 2 Depress and hold the clutch pedal.

STEP 3 Turn the front-wheel drive control switch counterclockwise.
If the four-wheel drive indicator flashes and the buzzer sounds, try the above steps again.

Shifting between H2 and H4

- Shifting from H2 to H4

  Reduce the vehicle speed to less than 62 mph (100 km/h) and turn the front-wheel drive control switch fully clockwise.

- Shifting from H4 to H2

  Turn the front-wheel drive control switch fully counterclockwise.
  This can be done at any speed. You need not depress the clutch pedal. (manual transmission)

If the four-wheel drive indicator light or the 4LO indicator light blinks

- Shifting from H2 to H4
  - If the four-wheel drive indicator continues to blink, drive straight ahead while accelerating or decelerating.
  - If the four-wheel drive indicator continues to blink and the buzzer sounds, stop the vehicle or reduce the vehicle speed to less than 62 mph (100 km/h). Operate the switch again.
- Shifting from H4 to H2

  If the four-wheel drive indicator continues to blink, drive straight ahead while accelerating or decelerating, or drive forward or backward in a short distance.

- Shifting to H4 or L4

  ▶Automatic transmission

  If the 4LO indicator continues to blink when you operate the front-wheel drive control switch to the H4 or L4 position, drive forward or backward in a short distance, then stop the vehicle completely, shift the shift lever securely to N and operate the switch again.

  ▶Manual transmission

  If the 4LO indicator continues to blink when you operate the front-wheel drive control switch to the H4 or L4 position, drive forward or backward in a short distance, then stop the vehicle completely, depress the clutch pedal and operate the switch again.

If the indicator light continues to blink even if doing so, contact your Toyota dealer as soon as possible. There may be a trouble in the four-wheel drive system.

Shifting to L4

VSC is automatically turned off.

Four-wheel drive usage frequency

You should drive in four-wheel drive for at least 10 miles (16 km) each month.
This will assure that the front-drive components are lubricated.

CAUTION

Caution while driving

- Never shift the front-wheel drive control switch from H2 to H4 if the wheels are slipping.
  Stop the slipping or spinning before shifting.
- For normal driving on dry and hard surface roads, use H2 position. Driving on dry and hard surface roads in H4 or L4 position may cause drive component oil leakage, seizure, or other problems resulting in an accident. Further, it may cause tire wear and increased fuel consumption.
- Avoid turning suddenly in H4 or L4 position. If you do turn suddenly, the difference in turning speeds between the front and rear wheels may have a similar effect to braking, thus making driving difficult.

Active traction control system*

The active traction control system automatically helps prevent the spinning of 4 wheels when the vehicle is started or accelerated on slippery road surfaces.

■ System operation

STEP 1 Vehicles with an automatic transmission:
Stop the vehicle, shift the shift lever to N and put the front-wheel drive control switch in the L4 position.

Vehicles with a manual transmission:
Stop the vehicle or reduce your speed to less than 2 mph (3 km/h). Depress the clutch pedal and put the front-wheel drive control switch in the L4 position.

STEP 2

Press the A-TRAC switch to activate the system.

At this time, the active traction control system indicator will come on.

To cancel the system, push the switch again.

When the active traction control system is operating

If four wheels spin, the slip indicator flashes to indicate that the active traction control system has been engaged.

*: If equipped

When the rear differential is locked (vehicles with the rear differential lock system)

The active traction control system is activated only when the vehicle speed is less than 3 mph (6 km/h).

Sounds and vibrations caused by the active traction control system

- A sound may be heard from the engine compartment when the engine is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in the system.
- Vibrations may be felt through the vehicle body and steering. It may occur when the system is operating.

If the brake system overheats

The system will cease operation, a buzzer will sound and A-TRAC indicator blink to alert the driver. Stop the vehicle in a safe place. (There is no problem with continuing normal driving.)

The system will be automatically restored after a short time.

CAUTION

The active traction control system may not operate effectively when

Directional control and power may not be achievable while driving on slippery road surfaces, even if the active traction control system is operating. Do not drive the vehicle in conditions where stability and power may be lost.

AUTO LSD system

The AUTO LSD system aids traction by using the traction control system to control engine performance and braking when one of the rear wheels begins to spin.

The system should be used only when one of the rear wheels spinning occurs in a ditch or rough surface.

■ System operation

The system can be used on 2WD models and in 2WD mode on 4WD models.

Press the VSC OFF switch to turn on the system.

At this time, the AUTO LSD and VSC OFF indicators will come on simultaneously.

To turn off the system, push the switch again.

If the engine is turned off while the AUTO LSD indicator is on and then restarted, the indicator will turn off automatically.

When the AUTO LSD system is operating

If the rear wheels spin, the slip indicator flashes to indicate that the AUTO LSD system has been controlled the spinning of the rear wheels.

If the engine is turned off and restarted

The AUTO LSD system and the indicators are automatically turned off.

Reactivation of the VSC system linked to vehicle speed

When the AUTO LSD system is turned on, the VSC system will turn on automatically if vehicle speed increases.

If the brake system overheats

The system will cease operation and a buzzer will sound to alert the driver. Stop the vehicle in a safe place. (There is no problem with continuing normal driving.)

The system will be automatically restored after a short time.

CAUTION

To avoid an accident

- Do not use the AUTO LSD system in conditions other than the above.
  A much greater steering effort and more careful cornering control will be required.
- Do not drive with the AUTO LSD system continuously turned on.

Rear differential lock system*

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

The rear differential lock system is effective in case one of the rear wheels is spinning.

Press the RR DIFF LOCK switch to lock the rear differential.

At this time, the indicator will blink. Wait a few seconds for the system to complete operation. After the rear differential is locked, the rear differential lock indicator will stop blinking and remain on.

To unlock the rear differential, push the switch again.

Using the rear differential lock system

►Automatic transmission

STEP 1 4WD models: Before using the rear differential lock system.
Stop the vehicle, shift the shift lever to N and put the front-wheel drive control switch in the L4 position to see if this is sufficient. If this has no effect, additionally use the rear differential lock system.

STEP 2 Be sure to stop the wheels.

STEP 3 Press the RR DIFF LOCK switch.

After the rear differential is locked, the indicator will come on.

STEP 4 Gently depress the accelerator pedal.

Unlock the rear differential as soon as the vehicle moves.
To unlock the rear differential, push the switch again.

*: If equipped

▶Manual transmission

STEP 1 4WD models: Before using the rear differential lock system.
Stop the vehicle or reduce your speed to less than 2 mph (3 km/h). Depress the clutch pedal and put the front-wheel drive control switch in the L4 position to see if this is sufficient. If this has no effect, additionally use the rear differential lock system.

STEP 2 Be sure to stop the wheels.

STEP 3 Depress the clutch pedal.

STEP 4 Press the RR DIFF LOCK switch.

After the rear differential is locked, the indicator will come on.

STEP 5 Slowly release the clutch pedal.

Unlock the rear differential as soon as the vehicle moves.
To unlock the rear differential, push the switch again.

■ **Locking the rear differential**

● When the rear differential is locked, VSC is automatically turned off. (The rear differential lock and VSC OFF indicators come on.)

● The following systems do not operate when the rear differential is locked. It is normal operation for the ABS warning light and VSC OFF indicator to be on at this time. If the DAC switch turns on, the downhill assist control system indicator light flashes.

- ABS
- Brake assist system
- VSC
- TRAC
- Downhill assist control system
- Hill-start assist control system

■ **The rear differential lock is disengaged when**

Shift the front-wheel drive control switch to H2 or H4 position. (4WD models)

Never forget to turn off the switch after using this feature.

After unlocking the rear differential

To check that the indicator goes off, turn the engine switch to the ON position, but do not start the engine.

CAUTION

To avoid an accident

- Do not use the rear differential lock system except when wheel spinning occurs in a ditch or on a slippery or ragged surface. Large steering effort and careful cornering control will be required.
- Do not lock the rear differential until the wheels have stopped spinning. Otherwise, the vehicle may move in an unexpected direction when the differential lock is engaged, resulting in an accident. This may also lead to possible damage to differential lock component parts.
- Do not drive over 5 mph (8 km/h) when the differential is locked.
- Do not keep driving with the RR DIFF LOCK switch on.

Downhill Assist Control system*

The downhill assist control system helps to prevent excessive speed on steep downhill descents.

System operation

The system will operate when the vehicle is traveling under 15 mph (25 km/h) and the front-wheel drive control switch is in the L4 position.

Press the DAC switch. The indicator will come on, and the system will operate.

With the vehicle traveling at a speed of 15 mph (25 km/h) or less, release your foot from the accelerator or brake pedal to activate the system.

When the system is in operation, the slip indicator will flash, and the stop lights/high mounted stop light will come on. A sound may also occur during the operation. This does not indicate a malfunction.

Turning off the system

Press the DAC switch while the system is in operation. The indicator will flash as the system gradually ceases operation, and will turn off when the system is fully off.
Pressing the DAC switch while the indicator is flashing will start the system again.

*: If equipped

Operating tips

The system will operate when the shift lever is in a position other than P. However, to make effective use of the system it is recommended that the shift lever be shifted to 2 or L.

The system will not operate when

- The front-wheel drive control switch is in the H2 or H4 position.
- The rear differential is locked.

The downhill assist control system indicator light flashes when

- The shift lever is in the N position.
- The front-wheel drive control switch is in the H2 or H4 position.
- The rear differential is locked.

If the brake system overheats

The system will cease operation and a buzzer will sound to alert the driver. Stop the vehicle in a safe place. (There is no problem with continuing normal driving.)

System malfunction

- The downhill assist control system indicator does not come on when the engine switch is turned to the ON position.
- The downhill assist control system indicator does not come on when the DAC switch is pressed.
  In the above cases have your vehicle checked by your Toyota dealer.

CAUTION

Do not rely excessively on the downhill assist control system

It may not be able to maintain a low speed over road surfaces on which sliding can easily occur, such as extremely steep slopes or icy or muddy roads.

Clutch start cancel switch*

The switch allows the vehicle to be driven out of difficult situations by cranking the engine with the clutch engaged.

Never use the switch for normal engine starting. Be sure to follow the starting procedure. (→P. 141)

Press the CLUTCH START CANCEL switch to cancel the clutch start system when the engine switch is turned to the ON position.

The indicator comes on when the clutch start system is canceled.

The clutch start cancel switch is automatically turned off when the engine switch is turned off.

■ Clutch start system

The system is designed to keep the starter motor from operating if the clutch pedal is not depressed all the way down.

*: If equipped

Driving assist systems

To help enhance driving safety and performance, the following systems operate automatically in response to various driving situations. Be aware, however, that these systems are supplementary and should not be relied upon too heavily when operating the vehicle.

ABS (Anti-lock Brake System)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

Brake assist

Generates an increased level of braking force after the brake pedal is depressed, while the system detects a panic stop situation.

VSC (Vehicle Stability Control)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

Trailer Sway Control (vehicles with towing hitch and 7 pin connector)

Helps the driver to control trailer sway by selectively applying brake pressure for individual wheels and reducing engine torque when trailer sway is detected.

Trailer Sway Control is part of the VSC system and will not operate if VSC is turned off or experiences a malfunction.

TRAC (Traction Control)

Helps to maintains drive power and prevent the drive wheels from spinning when starting the vehicle or accelerating on slippery roads.

Hill-start assist control (if equipped)

Helps prevent the vehicle from rolling backwards when starting on an incline or slippery slope. It operates for approximately 5 seconds at maximum.

When the VSC/Trailer Sway Control/TRAC/hill-start assist control systems are operating

The slip indicator will flash while the VSC/Trailer Sway Control/TRAC/hill-start assist control systems are operating.

The stop lights and high mounted stoplight turn on when the hill-start assist control system or Trailer Sway Control is operating.

To disable VSC, Trailer Sway Control and TRAC (2WD models and 2WD mode on 4WD models)

If the vehicle gets stuck in fresh snow or mud, VSC, Trailer Sway Control and TRAC may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.

■ Turning off TRAC, VSC and Trailer Sway Control

Press and hold the VSC OFF switch for more than 3 seconds while the vehicle is stopped to turn off TRAC, VSC and Trailer Sway Control.

The VSC OFF and TRAC OFF indicators will come on.

Push the switch again to turn both systems back on.

To disable VSC, Trailer Sway Control and/or TRAC (4WD mode on 4WD models)

If the vehicle gets stuck in fresh snow or mud, VSC, Trailer Sway Control and TRAC may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.

■ Turning off TRAC

Quickly push and release the VSC OFF switch to turn off TRAC.

The TRAC OFF indicator will come on.

Push the switch again to turn the system back on.

■ Turning off TRAC, VSC and Trailer Sway Control

Press and hold the VSC OFF switch for more than 3 seconds while the vehicle is stopped to turn off TRAC, VSC and Trailer Sway Control.

The VSC OFF and TRAC OFF indicators will come on.

Push the switch again to turn both systems back on.

■When the TRAC OFF indicator light comes on even if the VSC OFF switch has not been pressed

TRAC, hill-start assist control, downhill assist control system cannot be operated. Contact your Toyota dealer.

■Reactivation of the TRAC, VSC and Trailer Sway Control systems after turning off the engine

Turning off the engine after turning off the TRAC, VSC and Trailer Sway Control systems will automatically reactivate them.

■Automatic TRAC reactivation (AUTO LSD mode)

With AUTO LSD mode, VSC OFF and AUTO LSD indicator lights turn on. The TRAC system will turn on when the vehicle speed increases.

■Automatic TRAC, VSC and Trailer Sway Control reactivation

If the TRAC, VSC and Trailer Sway Control systems are turned off, the systems will not turn on even when vehicle speed increases.

■Sounds and vibrations caused by the ABS, TRAC, VSC, Trailer Sway Control, brake assist and hill-start assist control system

- A sound may be heard from the engine compartment when the engine is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in any of these systems.
- Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
  - Vibrations may be felt through the vehicle body and steering.
  - A motor sound may be heard after the vehicle comes to a stop.
  - The brake pedal may pulsate slightly when the ABS is activated.
  - The brake pedal may move down slightly after the ABS is activated.

■Hill-start assist control is operational when (if equipped)

- The shift lever is in the D, 4, 3, 2 (5-speed automatic transmission), D, 3, 2 (4-speed automatic transmission) or L positions.
- The brake pedal is not depressed.

Hill-start assist control will not operate when (if equipped)

- The shift lever is in the P, R or N positions.
- The rear differential is locked.

If the brake system overheats

TRAC and hill-start control will cease operation and a buzzer will sound to alert the driver. Stop the vehicle in a safe place. (There is no problem with continuing normal driving.)

CAUTION

The ABS does not operate effectively when

- The limits of tire gripping performance have been exceeded.
- The vehicle hydroplanes while driving at high speed on the wet or slick road.

Stopping distance when the ABS is operating may exceed that of normal conditions

The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a safe distance from the vehicle in front of you, especially in the following situations.

- When driving on dirt, gravel or snow-covered roads
- When driving with tire chains
- When driving over bumps in the road
- When driving over roads with potholes or roads with uneven roads

When VSC and Trailer Sway Control are activated

The slip indicator flashes. Always drive carefully. Reckless driving may cause an accident. Exercise particular care when the indicator flashes.

TRAC may not operate effectively when

Directional control and power may not be achievable while driving on slippery road surfaces, even if TRAC is operating.
Do not drive the vehicle in conditions where stability and power may be lost.

If the hill-start assist control does not operate effectively

Do not overly rely on the hill-start assist control. The hill start assist control may not operate effectively on steep inclines and roads covered in ice.

CAUTION

Replacing tires

Make sure that all tires are of the same size, brand, tread pattern and total load capacity. In addition, make sure that the tires are inflated to the appropriate tire pressure level.

The ABS, VSC, TRAC and Trailer Sway Control will not function correctly if different tires are fitted on the vehicle.

Contact your Toyota dealer for further information when replacing tires or wheels.

Handling of tires and suspension

Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause the system to malfunction.

Trailer Sway Control precaution

The Trailer Sway Control system is not able to reduce trailer sway in all situations. Depending on many factors such as the conditions of the vehicle, trailer, road surface, and driving environment, the Trailer Sway Control system may not be effective. Refer to your trailer owner's manual for information on how to tow your trailer properly.

If trailer sway occurs

Observe the following precautions.
Failing to do so may cause death or serious injury.

- Firmly grip the steering wheel. Steer straight ahead.
  Do not try to control trailer swaying by turning the steering wheel.
- Begin releasing the accelerator pedal immediately but very gradually to reduce speed.
  Do not increase speed. Do not apply vehicle brakes.

If you make no extreme correction with the steering or brakes, your vehicle and trailer should stabilize. (→P. 240)

Off-road precautions (4WD models and PreRunner)

This vehicle 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.

Off-road vehicle feature

- 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, it has 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 are designed to perform satisfactorily under off-road conditions. Therefore, sharp turns at excessive speeds may cause rollover.

CAUTION

Off-road vehicle precautions

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 crosswinds. 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 much 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.

Off-road driving

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.

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

Additional information for off-road driving

▶ 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

Off-road driving precautions

Always observe the following precautions to minimize the risk of serious 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

■ **To prevent the water damage**

- 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 entering the automatic transmission will cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately 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.

■ **When you drive through water**

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.

■ **Inspection after off-road driving**

- 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".

Take notice of the following information about storage precautions, cargo capacity and load.

- Stow cargo and luggage in the rear deck whenever possible.
- Be sure all items are secured in place.
- Be careful to keep the vehicle level. Placing the weight as far forward as possible helps maintain vehicle balance.
- For better fuel economy, do not carry unnecessary weight.

Deck rails

1 Headboard rail

2 Side rails

To use the deck rails, you must install genuine Toyota accessories or their equivalent for the deck rails.

Follow the manufacturer's instructions and precautions when installing a genuine Toyota accessory or equivalent.

CAUTION

When you secure cargo with the deck rails

Be sure to follow the instructions below in order to avoid the cargo coming loose.

- Do not install accessories (tie-down cleats, storage boxes, etc.) at more than the following number of locations per deck rail.
  - Side rail:
    Short deck—Max. 3 locations
    Long deck—Max. 4 locations
  - Headboard rail:
    Max 3 locations

CAUTION

■ **When you secure cargo with the deck rails**

- Spread out tie-down/support locations evenly along the length of the rails.
- Do not exceed a total tensile load of 440 lb. (200 kg) per deck rail.
- To prevent luggage or cargo from sliding forward during braking, make sure the deck rail accessories such as storage box are securely attached on the deck rails.

Capacity and distribution

Cargo capacity depends on the total weight of the occupants.

(Cargo capacity) = (Total load capacity) – (Total weight of occupants)

Steps for Determining Correct Load Limit—

(1) Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.” on your vehicle’s placard.

(2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.

(3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.

(4) The resulting figure equals the available amount of cargo and luggage load capacity.

For example, if the “XXX” amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 × 150) = 650 lbs.)

(5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

(6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Calculation formula for your vehicle

1 Cargo capacity

2 Total load capacity (vehicle capacity weight) (→P. 527)

When 2 people with the combined weight of A lb. (kg) are riding in your vehicle, which has a total load capacity (vehicle capacity weight) of B lb. (kg), the available amount of cargo and luggage load capacity will be C lb. (kg) as follows:

B*2 lb. (kg) – A*1 lb. (kg) = C*3 lb. (kg)

*1: A = Weight of people
*2: B = Total load capacity
*3: C = Available cargo and luggage load

In this condition, if 3 more passengers with the combined weight of D lb. (kg) get on, the available cargo and luggage load will be reduced E lb. (kg) as follows:

C lb. (kg) – D*4 lb. (kg) = E*5 lb. (kg)

*4: D = Additional weight of people
*5: E = Available cargo and luggage load

As shown in the above example, if the number of occupants increases, the cargo and luggage load will be reduced by an amount that equals the increased weight due to the additional occupants. In other words, if an increase in the number of occupants causes an excess of the total load capacity (combined weight of occupants plus cargo and luggage load), you must reduce the cargo and luggage on your vehicle.

CAUTION

Things that must not be carried in the luggage compartment

The following things may cause a fire if loaded in the luggage compartment.

- Receptacles containing gasoline
- Aerosol cans

Storage precautions

Observe the following precautions.
Failing to do so may result in death or serious injury.

- Do not stack anything behind the front seats higher than the seatbacks.
  Such items may be thrown about and possibly injure people in the vehicle during sudden braking or in an accident.
- Do not place cargo or luggage in or on the following locations as the item may get under the clutch, brake or accelerator pedal and prevent the pedals from being depressed properly, block the driver's vision, or hit the driver or passengers, causing an accident.
  - Driver's feet
  - Front passenger or rear seats (when stacking items)
  - Instrument panel
  - Dashboard
  - Auxiliary box or tray that has no lid
- Secure all items in the occupant compartment, as they may shift and injure someone during sudden braking, sudden swerving or an accident.

CAUTION

■ **Storage precautions**

- Never allow anyone to ride in the rear deck. 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 death or serious bodily injury, in the event of sudden braking, sudden swerving or an accident.

■ **Capacity and distribution**

- Do not exceed the maximum axle weight rating or the total vehicle weight rating.
- Even if the total load of occupant's weight and the cargo load is less than the total load capacity, do not apply the load unevenly. Improper loading may cause deterioration of steering or braking control which may cause death or serious injury.

Vehicle load limits

Vehicle load limits include total load capacity, seating capacity, TWR (Trailer Weight Rating) and cargo capacity.

■ **Total load capacity (vehicle capacity weight): (→P. 527)**

Total load capacity means the combined weight of occupants, cargo and luggage.

■ **Seating capacity:**

▶ **Regular Cab models**

With separated type seats—
2 occupants
With bench type seat—
3 occupants

▶ **Access Cab models**

4 occupants (Front 2, Rear 2)

▶ **Double Cab models**

5 occupants (Front 2, Rear 3)

Seating capacity means the maximum number of occupants whose estimated average weight is 150 lb. (68 kg) per person.

Even if the number of occupants are within the seating capacity, do not exceed the total load capacity.

■ **TWR (Trailer Weight Rating): (→P. 228, 529)**

TWR means the maximum gross trailer weight (trailer weight plus its cargo weight) that your vehicle is able to tow.

■ **Cargo capacity**

Cargo capacity may increase or decrease depending on the weight and the number of occupants.

■ **Total load capacity and seating capacity**

These details are also described on the tire and loading information label. (→P. 439)

CAUTION

Overloading the vehicle

Do not overload the vehicle.
It may not only cause damage to the tires, but also degrade steering and braking ability, resulting in an accident.

Winter driving tips

Carry out the necessary preparations and inspections before driving the vehicle in winter. Always drive the vehicle in a manner appropriate to the prevailing weather conditions.

Pre-winter preparations

- Use fluids that are appropriate to the prevailing outside temperatures.
  - Engine oil
  - Engine coolant
  - Washer fluid
- Have a service technician inspect the level and specific gravity of battery electrolyte.
- Have the vehicle fitted with four snow tires or purchase a set of tire chains for the rear tires.

  Ensure that all tires are the same size and brand, and that chains match the size of the tires.

Before driving the vehicle

Perform the following according to the driving conditions.

- Do not try to forcibly open a window, scrape an outside rear view mirror surface or move a wiper or outside rear view mirror that is frozen. Pour warm water over the frozen area to melt the ice. Wipe away the water immediately to prevent it from freezing.
- To ensure proper operation of the climate control system fan, remove any snow that has accumulated on the air inlet vents in front of the windshield.
- Remove any ice that has accumulated on the vehicle chassis.
- Periodically check for and remove any excess ice or snow that may have accumulated in the wheel well or on the brakes.

■ **When driving the vehicle**

Accelerate the vehicle slowly and drive at a reduced speed suitable to road conditions.

■ **When parking the vehicle**

Park the vehicle and move the shift lever to P (automatic transmission) or 1 or R (manual transmission) without setting the parking brake. The parking brake may freeze up, preventing it from being released. If necessary, block the wheels to prevent inadvertent sliding or creeping.

Selecting tire chains

Use the correct tire chain size when mounting the snow chains. Chain size is regulated for each tire size.

1 Side chain
0.2 in. (5 mm) in diameter

2 Cross chain
0.25 in. (6.3 mm) in diameter

Regulations on the use of snow chains

- Regulations regarding the use of tire chains vary according to location and type of road. Always check local regulations before installing chains.
- Install the chains on the rear tires.
- Retighten the chains after driving 1/4 - 1/2 mile (0.5 - 1.0 km).

Snow chain installation

Observe the following precautions when installing and removing chains.

- Install and remove tire chains in a safe location.
- Install tire chains on the rear tires only. Do not install tire chains on the front tires.
- Install tire chains following the instructions provided in the accompanying instructions.

CAUTION

Driving with snow tires

Observe the following precautions to reduce the risk of accidents.
Failing to do so may result in a loss of vehicle control and cause death or serious injury.

- Use tires of the size specified for your vehicle.
- Maintain the recommended level of air pressure.
- Do not drive in excess of 75 mph (120 km/h) regardless of the type of snow tires being used.
- Snow tires should be installed on all wheels.
- 4WD models:
  Do not mix tires of different makes, models, tread patterns or treadwear.

Driving with snow chains

Observe the following precautions to reduce the risk of accidents.
Failing to do so may result in the vehicle being unable to be driven safely, and may cause death or serious injury.

- Do not drive in excess of the speed limit specified for the tire chains being used or 30 mph (50 km/h), whichever is lower.
- Avoid driving on bumpy road surfaces or over potholes.
- Avoid sudden turns and braking.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.

CAUTION

When parking the vehicle

Always use wheel blocks when parking without the parking brake. Failure to do so may allow the vehicle to move, resulting in an accident.

NOTICE

Repairing or replacing snow tires

Request repairs of and obtain replacement snow tires from Toyota dealers or legitimate tire retailers.
This is because the removal and attachment of snow tires affects the operation of the tire pressure warning valves and transmitters.

Fitting tire chains

The tire pressure warning valves and transmitters may not function correctly when tire chains are fitted.

Trailer towing

Your vehicle is designed primarily as a passenger-and-load-carrying vehicle. Towing a trailer can have an adverse impact on handling, performance, braking, durability, and fuel consumption. For your safety and the safety of others, you must not overload your vehicle or trailer. You must also ensure that you are using appropriate towing equipment, that the towing equipment has been installed correctly and used properly, and that you employ the requisite driving habits.

Vehicle-trailer stability and braking performance are affected by trailer stability, brake performance and setting, trailer brakes, the hitch and hitch systems (if equipped).

To tow a trailer safely, use extreme care and drive the vehicle in accordance with your trailer's characteristics and operating conditions.

Toyota warranties do not apply to damage or malfunction caused by towing a trailer for commercial purposes.

Contact your Toyota dealer for further information about additional requirements such as towing kits, etc.

Towing related terms

■ GCWR (Gross Combination Weight Rating)

The maximum allowable gross combination weight. The gross combination weight is the sum of the total vehicle weight (including the occupants, cargo and any optional equipment installed on the vehicle) and the weight of the trailer being towed (including the cargo in the trailer).

■ GVWR (Gross Vehicle Weight Rating)

The maximum allowable gross vehicle weight. The gross vehicle weight is the total weight of the vehicle. When towing a trailer, it is the sum of the vehicle weight (including the occupants, cargo and any optional equipment installed on the vehicle) and the tongue weight.

■ GAWR (Gross Axle Weight Rating)

The maximum allowable gross axle weight. The gross axle weight is the load placed on each axle (front and rear).

■ TWR (Trailer Weight Rating)

The maximum allowable gross trailer weight. The gross trailer weight is the sum of the trailer weight and the weight of the cargo in the trailer.

TWR is calculated assuming base vehicle with one driver, one front passenger, towing package (if available), hitch and hitch systems (if required).

Additional optional equipment, passengers and cargo in the vehicle will reduce the trailer weight rating so as not to exceed GCWR, GVWR and GAWR.

If the gross trailer weight exceeds 3000 lb. (1360 kg), it is recommended to use a trailer with 2 or more axles.

■ Unbraked TWR (Unbraked Trailer Weight Rating)

The trailer weight rating for towing a trailer without a trailer service brake system.

■ Tongue Weight

The load placed on the trailer hitch ball. (→P. 232)

Weight limits

- The gross trailer weight must never exceed the TWR described in the table. (→P. 228, 529)
- The gross combination weight must never exceed the GCWR described in the table. (→P. 228)

▶Regular Cab models and Double Cab models

- The gross vehicle weight must never exceed the GVWR indicated on the Certification Label.
- The gross axle weight on each axle must never exceed the GAWR indicated on the Certification Label.

▶Access Cab models

- If the gross trailer weight is over the unbraked TWR, trailer service brakes are required.
- If the gross trailer weight is over 2000 lb. (905 kg), a sway control device with sufficient capacity is required.
- If the gross trailer weight is over 5000 lb. (2265 kg), a weight distributing hitch with sufficient capacity is required.

GCWR, TWR, Unbraked TWR, Fifth wheel and Gooseneck towing TWR

Confirm that the gross trailer weight, gross combination weight, gross vehicle weight, gross axle weight and tongue weight are all within the limits.

■ GCWR* and TWR*

►Regular Cab models

Model code*1	Engine	Driving system	GCWR	TWR
TRN220L-TRMDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	7150 lb. (3240 kg)	3500 lb. (1585 kg)
TRN220L-TRPDKA			7170 lb. (3250 kg)	
TRN240L-TRMDKA		4WD	7540 lb. (3420 kg)	
TRN240L-TRPDKA			7590 lb. (3440 kg)	

*: These models meet the tow-vehicle trailering requirement of SAE International per SAE J2807.

▶Access Cab models

Model code*1	Engine	Driving system	GCWR	TWR
TRN225L-CRMDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	7440 lb. (3370 kg)	3500 lb. (1585 kg)
TRN225L-CRPDKA			7470 lb. (3385 kg)	
TRN245L-CRMDKA		4WD	7860 lb. (3565 kg)	
TRN245L-CRPDKA			7880 lb. (3570 kg)	
TRN265L-CRPDKA		2WD	7640 lb. (3465 kg)	
GRN225L-CRFDKA	4.0 L V6 (1GR-FE) engine		7460 lb. (3380 kg)	3300 lb. (1495 kg)
GRN245L-CRADKA		4WD	7970 lb. (3615 kg)*2	3500 lb. (1585 kg)*2
			11100 lb. (5030 kg)*3	6500 lb. (2945 kg)*3
GRN245L-CRFDKA			7930 lb. (3595 kg)*2	3500 lb. (1585 kg)*2
			11070 lb. (5020 kg)*3	6500 lb. (2945 kg)*3
GRN265L-CRADKA		2WD	7730 lb. (3505 kg)*2	3500 lb. (1585 kg)*2
			10860 lb. (4925 kg)*3	6500 lb. (2945 kg)*3

▶ Double Cab models

Model code*1	Engine	Driving system	GCWR	TWR
TRN225L-PRPDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	7450 lb. (3375 kg)	3400 lb. (1540 kg)
TRN265L-PRPDKA			7720 lb. (3500 kg)	3500 lb. (1585 kg)
GRN245L-PRADKA	4.0 L V6 (1GR-FE) engine	4WD	8050 lb. (3650 kg)*2	3500 lb. (1585 kg)*2
			11180 lb. (5070 kg)*3	6500 lb. (2945 kg)*3
GRN245L-PRFDKA			8020 lb. (3635 kg)*2	3500 lb. (1585 kg)*2
			11160 lb. (5060 kg)*3	6500 lb. (2945 kg)*3
GRN250L-PRADKA			8010 lb. (3630 kg)*2	3400 lb. (1540 kg)*2
			10960 lb. (4970 kg)*3	6200 lb. (2810 kg)*3

Model code*1	Engine	Driving system	GCWR	TWR
GRN265L-PRADKA	4.0 L V6 (1GR-FE) engine	2WD	7810 lb. (3540 kg)*2	3500 lb. (1585 kg)*2
			10950 lb. (4965 kg)*3	6500 lb. (2945 kg)*3
GRN270L-PRADKA			7900 lb. (3580 kg)*2	3500 lb. (1585 kg)*2
			11030 lb. (5000 kg)*3	6500 lb. (2945 kg)*3

*1: The model code is indicated on the Certification Label. (→P. 227, 531)
*2: Without towing package
*3: With towing package

■ Unbraked TWR*

1000 lb. (450 kg)

■ Fifth wheel and gooseneck towing TWR*

Toyota does not recommend fifth wheel and gooseneck towing.

*: These models meet the tow-vehicle trailering requirement of SAE International per SAE J2807.

Trailer Tongue Weight

- A recommended tongue weight varies in accordance with the types of trailers or towing as described below.
- To ensure the recommended values shown below, the trailer must be loaded by referring to the following instructions.
  - Tongue Weight

    The gross trailer weight should be distributed so that the tongue weight is 9% to 11%. (Tongue weight /Gross trailer weight x 100 = 9% to 11%)

1 Gross trailer weight

2 Tongue weight

If using a weight distributing hitch when towing, return the front axle to the same weight as before the trailer connection.

If front axle weight cannot be measured directly, measure the front fender height above the front axle before connection. Adjust weight distributing hitch torque until front fender is returned to the same height as before connection.

The gross trailer weight, gross axle weight and tongue weight can be measured with platform scales found at a highway weighing station, building supply company, trucking company, junk yard, etc.

Hitch

Trailer hitch assemblies have different weight capacities. Toyota recommends the use of Toyota hitch/bracket for your vehicle. For details, contact your Toyota dealer.

- If you wish to install a trailer hitch, contact your Toyota dealer.
- Use only a hitch that conforms to the gross trailer weight requirement of your vehicle.
- Follow the directions supplied by the hitch manufacturer.
- Lubricate the hitch ball with a light coating of grease.
- Remove the trailer hitch whenever you are not towing a trailer. After removing the hitch, seal any mounting hole in the vehicle body to prevent entry of any substances into the vehicle.

Bumper towing (vehicles with steel bumper only)

The rear bumper of your vehicle is equipped with a hole to install a trailer ball. If you have any questions, contact your Toyota dealer.

The gross trailer weight (trailer weight plus cargo weight) when towing with the bumper must never exceed the TWR (→P. 228, 529) or 3500 lb. (1585 kg) whichever is lower.

Selecting trailer ball

Use the correct trailer ball for your application.

1 Trailer ball load rating

Matches or exceeds the gross trailer weight rating of the trailer.

2 Ball diameter

Matches the size of the trailer coupler. Most couplers are stamped with the required trailer ball size.

Trailer class	Typical trailer ball size
IV	2 5/16 in.
II and III	2 in.
I	1 7/8 in.

3 Shank length

Protrudes beyond the bottom of the lock washer and nut by at least 2 threads.

4 Shank diameter

Matches the ball mount hole diameter size.

Positions for towing hitch receiver and hitch ball

1 Weight carrying ball position: 56.1 in. (1425 mm)

2 Hitch receiver pin hole position: 44.2 in. (1123 mm)

Connecting trailer lights

▶ Vehicles with 7 pin connector

Use the wire harness stored in the rear end under the vehicle body.

▶ Vehicles without 7 pin connector

Please consult your dealer when installing trailer lights, as incorrect installation may cause damage to the vehicle's lights. Please take care to comply with your state's laws when installing trailer lights.

Service connector for towing brake controller (vehicles with 7 pin connector)

Your vehicle is equipped with a service connector for the trailer brake controller as shown.

Trailer towing tips

Your vehicle will handle differently when towing a trailer. Help to avoid an accident, death or serious injury, keep the following in mind when towing:

- Speed limits for towing a trailer vary by state or province. Do not exceed the posted towing speed limit.
- Toyota recommends that the vehicle-trailer speed limit is 65 mph (104 km/h) on a flat, straight, dry road. Do not exceed this limit, the posted towing speed limit or the speed limit for your trailer as set forth in your trailer owner's manual, whichever is lowest. Instability of the towing vehicle-trailer combination (trailer sway) increases as speed increases. Exceeding speed limits may cause loss of control.
- Before starting out, check the trailer lights, tires and the vehicle-trailer connections. Recheck after driving a short distance.
- Practice turning, stopping and reversing with the trailer attached in an area away from traffic until you become accustomed to the feel of the vehicle-trailer combination.

- Reversing with a trailer attached 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 is generally opposite to reversing without a trailer attached.) Avoid sharp or prolonged turning. Have someone guide you when reversing to reduce the risk of an accident.
- As stopping distance is increased when towing a trailer, vehicle-to-vehicle distance should be increased. For each 10 mph (16 km/h) of speed, allow at least one vehicle and trailer length.
- Avoid sudden braking as you may skid, resulting in the trailer jack-knifing and a loss of vehicle control. This is especially true on wet or slippery surfaces.
- Avoid jerky starts or sudden acceleration.
- Avoid jerky steering and sharp turns, and slow down before making a turn.
- Note that when making a turn, the trailer wheels will be closer than the vehicle wheels to the inside of the turn. Compensate by making a wider than normal turning radius.
- Slow down before making a turn, in cross winds, on wet or slippery surfaces, etc.
  Increasing vehicle speed can destabilize the trailer.
- Take care 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.
- To maintain engine braking efficiency and charging system performance when using engine braking, do not use fifth gear (5-speed manual transmission), sixth gear (6-speed manual transmission), or do not put the transmission in D (automatic transmission).

- Instability happens more frequently when descending steep or long downhill grades. Before descending, slow down and downshift. Do not make sudden downshifts while descending steep or long downhill grades.
- Avoid holding the brake pedal down too long or applying the brakes too frequently. This could cause the brakes to overheat and result in reduced braking efficiency.
- Due to the added load of the trailer, your vehicle's engine may overheat on hot days (at temperatures over 85°F [30°C]) when driving up a long or steep grade. If the engine coolant temperature gauge indicates overheating, immediately turn off the air conditioning (if in use), pull your vehicle off the road and stop in a safe spot. (→P. 518)
- Always place wheel blocks under both the vehicle's and the trailer's wheels when parking. Apply the parking brake firmly, and put the transmission in P (automatic transmission) or in 1 or R (manual transmission). Avoid parking on a slope, but if unavoidable, do so only after performing the following:

STEP 1 Apply the brakes and keep them applied.

STEP 2 Have someone place wheel blocks under both the vehicle's and trailer's wheels.

STEP 3 When the wheel blocks are in place, release the brakes slowly until the blocks absorb the load.

STEP 4 Apply the parking brake firmly.

STEP 5 Shift into P (automatic transmission) or 1 or R (manual transmission) and turn off the engine.

- When restarting after parking on a slope:

STEP 1 With the transmission in P (automatic transmission) or the clutch pedal (manual transmission) depressed, start the engine. On vehicles with an automatic transmission, be sure to keep the brake pedal depressed.

STEP 2 Shift into a forward gear. If reversing, shift into R.

STEP 3 Release the parking brake (and also the brake pedal on vehicles with an automatic transmission), and slowly pull or back away from the wheel blocks. Stop and apply the brakes.

STEP 4 Have someone retrieve the blocks.

Matching trailer ball height to trailer coupler height

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

1 Coupler

2 Trailer ball

Before towing

Check that the following conditions are met:

- Ensure that your vehicle's tires are properly inflated. (→P. 542)
- Trailer tires are inflated according to the trailer manufacturer's recommendation.
- All trailer lights work as required by law.
- All lights work each time you connect them.
- The trailer ball is set at the proper height for the coupler on the trailer.
- The trailer is level when it is hitched.
  Do not drive if the trailer is not level, and check for improper tongue weight, overloading, worn suspension, or other possible causes.
- The trailer cargo is securely loaded.

- The rear view mirrors conform to all applicable federal, state/provincial or local regulations. If they do not, install rear view mirrors appropriate for towing purposes.

Break-in schedule

If your vehicle is new or equipped with any new power train components (such as an engine, transmission, differential or wheel bearing), Toyota recommends that you do not tow a trailer until the vehicle has been driven for over 500 miles (800 km).

After the vehicle has been driven for over 500 miles (800 km), you can start towing. However, for the next 500 miles (800 km), drive the vehicle at a speed of less than 50 mph (80 km/h) when towing a trailer, and avoid full throttle acceleration.

Maintenance

- If you tow a trailer, your vehicle will require more frequent maintenance due to the additional load. (See “Owner’s Warranty Information Booklet” or “Scheduled Maintenance Guide/Owner’s Manual Supplement”.)
- Retighten the fixing bolts of the towing ball and bracket after approximately 600 miles (1000 km) of trailer towing.

If trailer sway occurs

One or more factors (crosswinds, passing vehicles, rough roads, etc.) can adversely affect handling of your vehicle and trailer, causing instability.

- If trailer swaying occurs:
  - Firmly grip the steering wheel. Steer straight ahead.
    Do not try to control trailer swaying by turning the steering wheel.
  - Begin releasing the accelerator pedal immediately but very gradually to reduce speed.
    Do not increase speed. Do not apply vehicle brakes.

If you make no extreme correction with the steering or brakes, your vehicle and trailer should stabilize. (if enabled, Trailer Sway Control can also help to stabilize the vehicle and trailer.)

● After the trailer swaying has stopped:

- Stop in a safe place. Get all occupants out of the vehicle.
- Check the tires of the vehicle and the trailer.
- Check the load in the trailer.
  Make sure the load has not shifted.
  Make sure the tongue weight is appropriate, if possible.
- Check the load in the vehicle.
  Make sure the vehicle is not overloaded after occupants get in.

If you cannot find any problems, the speed at which trailer swaying occurred is beyond the limit of your particular vehicle-trailer combination.
Drive at a lower speed to prevent instability. Remember that swaying of the towing vehicle-trailer increases as speed increases.

CAUTION

■ Trailer towing precautions

To tow a trailer safely, use extreme care and drive the vehicle in accordance with the trailer's characteristics and operating conditions. Failure to do so could cause an accident resulting in death or serious injury. Vehicle stability and braking performance are affected by trailer stability, brake setting and performance, and the hitch. Your vehicle will handle differently when towing a trailer.

■ To avoid accident or injury

● Do not exceed the TWR, unbraked TWR, GCWR, GVWR or GAWR.

● If the gross trailer weight is over 2000 lb. (905 kg), a sway control device with sufficient capacity is required.

● If the gross trailer weight is over 5000 lb. (2265 kg), a weight distributing hitch with sufficient capacity is required.

● Adjust the tongue weight within the appropriate range. Place heavier loads as close to the trailer axle as possible.

CAUTION

■ **To avoid accident or injury**

- Do not exceed 65 mph (104 km/h), the posted towing speed limit or the speed limit for your trailer as set forth in your trailer owner's manual, whichever is lowest. Slow down sufficiently before making a turn, in cross winds, on wet or slippery surface, etc. to help avoid an accident. If you experience a vehicle-trailer instability from reducing a certain speed, slow down and make sure you keep your vehicle speed under the speed of which you experience the instability.
- Do not make jerky, abrupt or sharp turns.
- Do not apply the brakes suddenly as you may skid, resulting in jackknifing and loss of vehicle control. This is especially true on wet or slippery surfaces.
- Do not exceed the trailer hitch assembly weight, gross vehicle weight, gross axle weight and trailer tongue weight capacities.
- Do not use cruise control when towing.
- Slow down and downshift before descending steep or long downhill grades. Do not make sudden downshifts while descending steep or long downhill grades.
- Vehicle-trailer instability is more likely on steep long downhills. Before descending steep or long downhill grades, slow down and downshift. Do not make sudden downshifts when descending steep or long downhill grades. Avoid holding the brake pedal down too long or applying the brakes too frequently. This could cause the brakes to overheat and result in reduced braking efficiency.
- Do not tow a trailer when the temporary spare tire is installed on your vehicle.

■ **Hitch**

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 death or serious personal injuries.

CAUTION

When towing a trailer

Toyota recommends trailers with brakes that conform to any applicable federal and state/provincial regulations.

- If the gross trailer weight exceeds unbraked TWR, trailer brakes are required. Toyota recommends trailers with brakes that conform to all applicable federal and state/provincial regulations.
- Never tap into your vehicle's hydraulic system, as this will lower the vehicle's braking effectiveness.
- Never tow a trailer without using a safety chain securely attached to both the trailer and the vehicle. If damage occurs to the coupling unit or hitch ball, there is danger of the trailer wandering into another lane.

NOTICE

When installing a trailer hitch

Use only the position recommended by your Toyota dealer. Do not install the trailer hitch on the bumper; this may cause body damage.

Do not directly splice trailer lights

Do not directly splice trailer lights. Directly splicing trailer lights may damage your vehicle's electrical system and cause a malfunction.

Dinghy towing

Your vehicle is not designed to be dinghy towed (with 4 wheels on the ground) behind a motor home.

NOTICE

■ **To avoid serious damage to your vehicle**

Do not tow your vehicle with four wheels on the ground.

Adjusting the settings

Adjusting the temperature setting

Turn the temperature control dial clockwise (warm) or counter-clockwise (cool).

If A/C is not pressed, the system will blow ambient temperature air or heated air.

For quick cooling, turn the temperature control dial to the MAX A/C position. The air conditioning will automatically turn on and the air intake selector will be set to recirculated air mode.

Adjusting the fan speed

Turn the fan speed control dial clockwise (increase) or counter-clockwise (decrease).

Set the dial to OFF to turn the fan off.

Selecting the air outlets

Set the air outlet selection dial to an appropriate position.

The positions between the air outlet selections shown below can also be selected for more detailed adjustment.

When the dial is set to , air flows to the upper body.

When the dial is set to , air flows to the upper body and feet.

Double Cab models only

When the dial is set to , air flows to the feet.

Double Cab models only

When the dial is set to , air flows to the feet and the windshield defogger operates.

The air intake selector is automatically set to outside air mode.

In this position, the air intake selector cannot be changed to the recirculated air mode.

Double Cab models only

When the dial is set to , air flows to the windshield and side windows.

The air intake selector is automatically set to outside air mode.

In this position, the air intake selector cannot be changed to the recirculated air mode.

Switching between outside air and recirculated air modes

Press .

The mode switches between (outside air mode) and (recirculated air mode) each time the switch is pressed.

Adjusting the position of the air outlets

▶Center outlets

Direct air flow to the left or right, up or down.

▶Right and left side outlets

Direct air flow to the left or right, up or down.

Opening and closing the air outlets

▶Center outlets

1 Open the vent.

2 Close the vent.

▶Right and left side outlets

1 Open the vent.

2 Close the vent.

■**For quick clearing of the windshield and side windows**

Press A/C to turn the air conditioning on.

■**Using the system in recirculated air mode**

The windows will fog up more easily if the recirculated air mode is used for an extended period.

■**When outside air temperature approaches 32°F (0°C)**

The air conditioning system may not operate even when A/C is pressed.

■**Air conditioning filter**

→P. 447

■**When is selected for the air outlets used**

For your driving comfort, air flowing to the feet may be warmer than air flowing to the upper body depending on the position of the temperature adjustment dial.

■**Air conditioning odors**

- During use, various odors from inside and outside the vehicle may enter into and accumulate in the air conditioning system. This may then cause odor to be emitted from the vents.
- To reduce potential odors from occurring:
  It is recommended that the air conditioning system be set to outside air mode prior to turning the vehicle off.

CAUTION

To prevent the windshield from fogging up

Do not set the air outlet selection dial to during cool air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield can cause the outer surface of the windshield to fog up, blocking your vision.

NOTICE

To prevent battery discharge

Do not leave the air conditioning system on longer than necessary when the engine is stopped.

Interior lights list

1 Interior light (→P. 348)

2 Personal lights (Access Cab and Double Cab models) (→P. 348)

Illuminated entry system

When the interior light switch is in the DOOR position, the interior light automatically turns on/off according to whether the doors are locked/unlocked and whether the doors are open/closed.

To prevent the battery from being discharged

If the interior light remains on when the door is not fully closed and the interior light switch is in the DOOR position, the light will go off automatically after 20 minutes.

Interior light

1 DOOR position

2 OFF

3 ON

Personal lights (Access Cab and Double Cab models)

On/off

Cleaning and protecting the vehicle exterior

Perform the following to protect the vehicle and maintain it in prime condition.

- Working from top to bottom, liberally apply water to the vehicle body, wheel wells and underside of the vehicle to remove any dirt and dust.
  Wash the vehicle body using a sponge or soft cloth, such as a chamois.
- For hard-to-remove marks, use car wash soap and rinse thoroughly with water.
- Wipe away any water.
- Wax the vehicle when the waterproof coating deteriorates.

If water does not bead on a clean surface, apply wax when the vehicle body is cool.

Automatic car washes

- Fold the mirrors and remove the detachable pole antenna before washing the vehicle. Start washing from the front of the vehicle. Make sure to re-install the detachable pole antenna and extend the mirrors before driving.
- Brushes used in automatic car washes may scratch the vehicle surface and harm your vehicle's paint.
- In certain automatic car washes, the roof antenna (if equipped) may interfere with machine operation. This may prevent the vehicle from being cleaned properly or result in damage to the roof antenna.

High pressure car washes

Do not allow the nozzles of the car wash to come within close proximity of the windows. Before entering an automatic car wash, check that the fuel filler door on your vehicle is closed properly.

Aluminum or chrome cladded wheels (if equipped)

- Remove any dirt immediately by using a neutral detergent. Do not use hard brushes or abrasive cleaners. Do not use strong or harsh chemical cleaners. Use the same mild detergent and wax as used on the paint.
- Do not use detergent on the wheels when they are hot, for example after driving for long distance in the hot weather.
- Wash detergent from the wheels immediately after use.

Bumpers and side moldings

Do not scrub with abrasive cleaners.

CAUTION

Caution about the exhaust pipe

Exhaust gasses cause the exhaust pipe to become quite hot.

When washing the vehicle, be careful not to touch the pipe until it has cooled sufficiently, as touching a hot exhaust pipe can cause burns.

NOTICE

To prevent paint deterioration and corrosion on the body and components (aluminum or chrome cladded wheels etc.)

- Wash the vehicle immediately in the following cases:
  - After driving near the sea coast
  - After driving on salted roads
  - If you see coal tar or tree sap on the paint surface
  - If you see dead insects, insect droppings or bird droppings on the paint
  - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
  - If the vehicle becomes heavily soiled in dust or mud
  - If liquids such as benzene and gasoline are spilled on the paint surface
- If the paint is chipped or scratched, have it repaired immediately.
- To prevent the wheels from corroding, remove any dirt and store in a place with low humidity when storing the wheels.

NOTICE

- Clean the drainage hole of the deck regularly.
  If the drainage hole is stopped up, the water will not be able to flow, and it will cause rust.

■ **Cleaning the exterior lights**

- Wash carefully. Do not use organic substances or scrub with a hard brush. This may damage the surfaces of the lights.
- Do not apply wax on the surfaces of the lights.
  Wax may cause damage to the lenses.

■ **Detachable pole antenna installation and removal precautions**

- Before driving, ensure that the antenna is installed.
- When the antenna is removed, such as before entering an automatic car wash, make sure to store it in a suitable place so as not to lose it. Also, before driving, make sure to reinstall the antenna in its original position.

Cleaning and protecting the vehicle interior

The following procedures will help protect your vehicle's interior and keep it in top condition:

Protecting the vehicle interior

Remove dirt and dust using a vacuum cleaner. Wipe dirty surfaces with a cloth dampened with lukewarm water.

Cleaning the leather areas

- Remove dirt and dust using a vacuum cleaner.
- Wipe any excess dirt and dust with a soft cloth dampened with diluted detergent.

  Use a diluted water solution of approximately 5% neutral wool detergent.
- Wring out any excess water from the cloth and thoroughly wipe off all remaining traces of detergent.
- Wipe the surface with a dry, soft cloth to remove any remaining moisture. Allow the leather to dry in a shaded and ventilated area.

Synthetic leather areas

- Remove loose dirt using a vacuum cleaner.
- Apply a mild soap solution to the synthetic leather using a sponge or soft cloth.
- Allow the solution to soak in for a few minutes. Remove the dirt and wipe off the solution with a clean, damp cloth.

Caring for leather areas

Toyota recommends cleaning the interior of the vehicle at least twice a year to maintain the quality of the vehicle's interior.

Shampooing the carpets

There are several commercial foaming-type cleaners available. Use a sponge or brush to apply the foam. Rub in overlapping circles. Do not apply water. The excellent results are obtained when keeping the carpet as dry as possible.

Seat belts

Clean with mild soap and lukewarm water using a cloth or sponge. Also check the belts periodically for excessive wear, fraying or cuts.

CAUTION

Water in the vehicle

- Do not splash or spill liquid in the vehicle.
  Doing so may cause the electrical components etc. to malfunction or catch fire.
- Do not get any of the SRS components or wiring in the vehicle interior wet. (→P. 87)

  Electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or severe injury.

Cleaning the interior (especially instrument panel)

Do not use polish wax or polish cleaner. The instrument panel may reflect off the windshield, obstructing the driver's view and leading to an accident, resulting in death or serious injury.

NOTICE

Cleaning detergents

- Do not use organic substances such as benzene or gasoline, acidic or alkaline solutions, dye, bleach or other detergent. Doing so may discolor the vehicle interior or cause streaks or damage to painted surfaces.
- Do not use polish wax or polish cleaner. The instrument panel's or other interior part's painted surface may be damaged.

Preventing damage to leather surfaces

Observe the following precautions to avoid damage to and deterioration of leather surfaces.

- Remove any dust or dirt on leather surfaces immediately.
- Do not expose the vehicle to direct sunlight for extended periods of time. Park the vehicle in the shade, especially during summer.
- Do not place items made of vinyl, plastic, or that contain wax on the upholstery, as they may stick to the leather surface if the vehicle interior heats up significantly.

Water on the floor

Do not wash the vehicle floor with water.
Vehicle systems such as the audio system may be damaged if water comes into contact with electrical components under the floor of the vehicle, and may also cause the body to rust.

Maintenance requirements

To ensure safe and economical driving, day-to-day care and regular maintenance is essential. It is the owner's responsibility to perform regular checks. Toyota recommends the following maintenance.

General maintenance

Should be performed on a daily basis. This can be done by yourself or by a Toyota dealer.

Scheduled maintenance

Should be performed at specified intervals according to the maintenance schedule.

For details about maintenance items and schedules, refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".

Do-it-yourself maintenance

You can perform some maintenance procedures yourself.
Please be aware that do-it-yourself maintenance may affect warranty coverage.

The use of Toyota Repair Manuals is recommended.

For details about warranty coverage, see the separate "Owner's Warranty Information Booklet", "Owner's Manual Supplement".

Repair and replacement

It is recommended that genuine Toyota parts be used for repair to ensure performance of each system. If non-Toyota parts are used in replacement or if a repair shop other than Toyota dealer performs repairs, confirm the warranty coverage.

Reset the maintenance data (U.S.A. only)

After the required maintenance is performed according to the maintenance schedule, please reset the maintenance data.
To reset the data, follow the procedures described below:

STEP 1 Switch the display to the trip meter A when the engine is running. (→P. 155)

STEP 2 Turn the engine switch to the LOCK position.

STEP 3 While pressing the ODO/TRIP button (→P. 155), turn the engine switch to the ON position. Continue to press and hold the button until the odometer displays 000000.

If the system fails to reset, the light will continue flashing.

Allow inspection and repairs to be performed by a Toyota dealer

- Toyota technicians are well-trained specialists and are kept up to date with the latest service information. They are well informed about the operations of all systems on your vehicle.
- Keep a copy of the repair order. It proves that the maintenance that has been performed is under warranty coverage. If any problem should arise while your vehicle is under warranty, your Toyota dealer will promptly take care of it.

CAUTION

Warning in handling of battery

- Engine exhaust, some of its constituents, and a wide variety of automobile components contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm. Work in a well ventilated area.
- Oils, fuels and fluids contained in vehicles as well as waste produced by component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Avoid exposure and wash any affected area immediately.
- Battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. (→P. 426)

General maintenance

Listed below are the general maintenance items that should be performed at the intervals specified in the "Scheduled Maintenance Guide" or "Owner's Manual Supplement". It is recommended that any problem you notice should be brought to the attention of your Toyota dealer or qualified service shop for advice.

Engine compartment

Items	Check points
Battery	Maintenance-free. (→P. 426)
Brake fluid	At the correct level? (→P. 422)
Engine coolant	At the correct level? (→P. 420)
Engine oil	At the correct level? (→P. 416)
Exhaust system	No fumes or strange sounds?
Power steering fluid	At the correct level? (→P. 424)
Radiator/condenser/hoses	Not blocked with foreign matter? (→P. 422)
Washer fluid	At the correct level? (→P. 428)

Vehicle interior

Items	Check points
Accelerator pedal	• Moves smoothly (without uneven pedal effort or catching)?
Automatic transmission “Park” mechanism	• Can the vehicle be held securely on an incline with the shift lever in P?
Brake pedal	• Moves smoothly? • Does it have appropriate clearance and correct amount of free play?
Brakes	• Not pull to one side when applied? • Loss of brake effectiveness? • Spongy feeling brake pedal? • Pedal almost touches floor?
Clutch pedal	• Moves smoothly? • Does it have correct amount of free play?
Head restraints	• Move smoothly and lock securely?
Indicators/buzzers	• Function properly?
Lights	• Do all the lights come on? • Headlights aimed correctly?
Parking brake	• Moves smoothly? • Can hold the vehicle securely on an incline?
Seat belts	• Does the seat belt system operate smoothly? • Are the belts undamaged?
Seats	• Do the seat controls operate properly?

Items	Check points
Steering wheel	• Moves smoothly? • Has correct free play? • No strange noises?

Vehicle exterior

Items	Check points
Doors	• Operate smoothly?
Engine hood	• The lock system works properly?
Fluid leaks	• Is there any leakage after parking?
Tire	• Inflation pressure is correct? • Tire surfaces not worn or damaged? • Tires rotated according to the maintenance schedule? • Wheel nuts are not loose?
Windshield wipers	• The wiper blades should not show any signs of cracking, splitting, wear, contamination or deformation. • The wiper blades should clear the windshield without streaking or skipping.

CAUTION

If the engine is running

Turn the engine off and ensure that there is adequate ventilation before performing maintenance checks.

Emission 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.

■ If the malfunction indicator lamp comes on

The OBD system determines that a problem exists somewhere in the emission control system. Your vehicle may not pass the I/M test and may need to be repaired. Contact your Toyota dealer to service the vehicle.

■ Your vehicle may not pass the I/M test:

● When the battery is disconnected or discharged

Readiness codes that are set during ordinary driving are erased.
Also, depending on your driving habits, the readiness codes may not be completely set.

● When the fuel tank cap is loose

The malfunction indicator lamp comes on as a temporary malfunction and your vehicle may not pass the I/M test.

■ When the malfunction indicator lamp goes off after several driving trips

The error code in the OBD system will not be cleared unless the vehicle is driven 40 or more times.

■ If your vehicle does not pass the I/M test

Contact your Toyota dealer to prepare the vehicle for re-testing.

Do-it-yourself service precautions

If you perform maintenance yourself, be sure to follow the correct procedures as given in these sections.

Items	Parts and tools
Battery condition (→P. 426)	• Warm water • Baking soda • Grease • Conventional wrench (for terminal clamp bolts)
Brake fluid level (→P. 422)	• FMVSS No.116 DOT 3 or SAE J1703 brake fluid • Rag or paper towel
Engine coolant level (→P. 420)	• “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology. U.S.A.: “Toyota Super Long Life Coolant” is pre-mixed with 50% coolant and 50% deionized water. Canada: “Toyota Super Long Life Coolant” is pre-mixed with 55% coolant and 45% deionized water.
Engine oil level (→P. 416)	• Toyota Genuine Motor Oil or equivalent • Rag or paper towel • Funnel (used only for adding oil)
Fuses (→P. 452)	• Fuse with same amperage rating as original

Items	Parts and tools
Light bulbs (→P. 462)	• Bulb with same number and wattage rating as original • Phillips-head screwdriver • Conventional wrench
Power steering fluid level (→P. 424)	• Automatic transmission fluid DEXRON® II or III • Rag or paper towel
Radiator and condenser (→P. 422)	—
Tire inflation pressure (→P. 439)	• Tire pressure gauge • Compressed air source
Washer fluid (→P. 428)	• Washer fluid containing antifreeze (for winter use) • Water

CAUTION

The engine compartment contains many mechanisms and fluids that may move suddenly, become hot, or become electrically energized. To avoid death or serious injury observe the following precautions.

■ When working on the engine compartment

- Keep hands, clothing, and tools away from the moving fan and engine drive belt.
- Be careful not to touch the engine, radiator, exhaust manifold, etc. right after driving as they may be hot. Oil and other fluids may also be hot.
- Do not leave anything that may burn easily, such as paper or rags, in the engine compartment.
- Do not smoke, cause sparks or expose an open flame to fuel or the battery. Fuel and battery fumes are flammable.
- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.
- Take care because brake fluid can harm your hands or eyes and damage painted surfaces.
  If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately.

  If you still experience discomfort, see a doctor.

■ When working near the cooling fan or radiator grille

Be sure the engine switch is off.
With the engine switch on, the cooling fan may automatically start to run if the air conditioning is on and/or the coolant temperature is high.

■ Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in the eyes.

NOTICE

If you remove the air cleaner

Driving with the air cleaner removed may cause excessive engine wear due to dirt in the air.

If the fluid level is low or high

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 refilling, it may indicate a serious problem.

Release the lock from the inside of the vehicle to open the hood.

Pull the hood release lever.

The hood will pop up slightly.

Pull up the hood catch lever and lift the hood.

Hold the hood open by inserting the supporting rod into the slot.

CAUTION

■ Pre-driving check

Check that the hood is fully closed and locked.
If the hood is not locked properly, it may open while the vehicle is in motion and cause an accident, which may result in death or serious injury.

■ After installing the support rod into the slot

Make sure the rod supports the hood securely from falling down on to your head or body.

NOTICE

■ When closing the hood

Be sure to return the support rod to its clip before closing the hood. Closing the hood with the support rod up could cause the hood to bend.

Engine compartment

▶2.7 L 4-cylinder (2TR-FE) engine

1 Washer fluid tank (→P. 428)

2 Radiator cap

3 Engine coolant reservoir (→P. 420)

4 Engine oil filler cap (→P. 417)

5 Power steering fluid reservoir (→P. 424)

6 Engine oil level dipstick (→P. 416)

7 Brake fluid reservoir (→P. 422)

8 Fuse box (→P. 452)

9 Battery (→P. 426)

10 Condenser (→P. 422)

11 Radiator (→P. 422)

▶4.0 L V6 (1GR-FE) engine

1 Washer fluid tank (→P. 428)

2 Power steering fluid reservoir (→P. 424)

3 Radiator cap

4 Engine oil level dipstick (→P. 416)

5 Engine coolant reservoir (→P. 420)

6 Engine oil filler cap (→P. 417)

7 Brake fluid reservoir (→P. 422)

8 Fuse box (→P. 452)

9 Battery (→P. 426)

10 Condenser (→P. 422)

11 Radiator (→P. 422)

Engine oil

With the engine at operating temperature and turned off, check the oil level on the dipstick.

■ Checking the engine oil

STEP 1 Park the vehicle on level ground. After warming up the engine and turning it off, wait more than 5 minutes for the oil to drain back into the bottom of the engine.

STEP 2 Hold a rag under the end and pull the dipstick out.

►2.7 L 4-cylinder (2TR-FE) engine

►4.0 L V6 (1GR-FE) engine

STEP 3 Wipe the dipstick clean.

STEP 4 Reinsert the dipstick fully.

STEP 5 Holding a rag under the end, pull the dipstick out and check the oil level.

1 Low

2 Normal

3 Excessive

The shape of the dipstick may differ depending on the type of vehicle or engine.

STEP 6 Wipe the dipstick and reinsert it fully.

■ Adding engine oil

►2.7 L 4-cylinder (2TR-FE) engine

If the oil level is below or near the low level mark, add engine oil of the same type as already in the engine.

►4.0 L V6 (1GR-FE) engine

Make sure to check the oil type and prepare the items needed before adding oil.

Engine oil selection	→P. 535
Items	Clean funnel

STEP 1 Remove the oil filler cap, turning it counterclockwise.

STEP 2 Add engine oil slowly.

STEP 3 Checking the dipstick.

STEP 4 Reinstall the filler cap, turning it clockwise.

The approximate quantity of oil needed to raise the level between low and full on the dipstick is indicated as follows:

►2.7 L 4-cylinder (2TR-FE) engine

1.4 qt. (1.3 L, 1.1 Imp.qt.)

►4.0 L V6 (1GR-FE) engine

1.6 qt. (1.5 L, 1.3 Imp.qt.)

Engine oil consumption

A certain amount of engine oil will be consumed while driving. In the following situations, oil consumption may increase, and engine oil may need to be refilled in between oil maintenance intervals.

- When the engine is new, for example directly after purchasing the vehicle or after replacing the engine
- If low quality oil or oil of an inappropriate viscosity is used
- When driving at high engine speeds or with a heavy load, when towing, or when driving while accelerating or decelerating frequently
- When leaving the engine idling for a long time, or when driving frequently through heavy traffic

CAUTION

Used engine oil

- 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. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Dispose of used oil and filters only in a safe and acceptable manner. Do not dispose of used oil and filters in household trash, in sewers or onto the ground. Call your Toyota dealer, service station or auto parts store for information concerning recycling or disposal.
- Do not leave used engine oil within the reach of children.

NOTICE

■ **To prevent serious engine damage**

Check the oil level on regular basis.

■ **When replacing the engine oil**

- Be careful not to spill engine oil on the vehicle components.
- Avoid overfilling, as the engine could be damaged.
- Check the oil level on the dipstick every time you refill the vehicle.
- Be sure the engine oil filler cap is properly tightened.

Engine coolant

The coolant level is satisfactory if it is between the FULL and LOW lines on the reservoir when the engine is cold.

1 Reservoir cap

2 FULL line

3 LOW line

If the level is on or below the LOW line, add coolant up to the FULL line.

If the coolant level drops within a short time after replenishing

Visually check the radiator, hoses, reservoir cap, radiator cap, drain cock and water pump.
If you cannot find a leak, have your Toyota dealer pressure test the cap and check for leaks in the cooling system.

Coolant selection

Only use “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology.

U.S.A.: “Toyota Super Long Life Coolant” is a mixture of 50% coolant and 50% deionized water. (Enabled: -31°F [-35°C])

Canada: “Toyota Super Long Life Coolant” is a mixture of 55% coolant and 45% deionized water. (Enabled: -44°F [-42°C])

For more details about engine coolant, contact your Toyota dealer.

CAUTION

When the engine is hot

Do not remove the radiator cap.
The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing serious injuries, such as burns.

NOTICE

When adding engine coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and antifreeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

If you spill coolant

Be sure to wash it off with water to prevent damage to parts or paint.

Radiator and condenser

Check the radiator and condenser and clear any foreign objects.
If either of the above parts are extremely dirty or you are not sure of their condition, have your vehicle checked by your Toyota dealer.

CAUTION

When the engine is hot

Do not touch the radiator or condenser as they may be hot and cause serious injuries, such as burns.

Brake fluid

Checking fluid level

▶Type A

The brake fluid level should be between the MAX and MIN lines on the reservoir.

1 MAX line
2 MIN line

▶Type B

1 MAX line
2 MIN line

■ Adding fluid

Make sure to check the fluid type and prepare the necessary items.

Fluid type	FMVSS No.116 DOT 3 or SAE J1703 brake fluid
Items	Rag or paper towel

▶Type B only

STEP 1 Turn the engine off.

STEP 2 Depress the brake pedal 20 times or more.

STEP 3 Remove the reservoir cap.

STEP 4 Add newly opened brake fluid up to the MAX line.

■ Brake fluid can absorb moisture from the air

Excess moisture in the fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.

⚠ CAUTION

■ When filling the reservoir

Take care because brake fluid can harm your hands or eyes and damage painted surfaces.
If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately.

If you still experience discomfort, see a doctor.

⚠ NOTICE

■ If the fluid level is low or high

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 refilling, it may indicate a serious problem.

■ If you spill fluid

Be sure to wash it off with water to prevent damage to parts or paint.

Power steering fluid

■ Fluid level

The fluid level should be within the appropriate range.

►2.7 L 4-cylinder (2TR-FE) engine

1 Full (when cold)
2 Add fluid (when cold)
3 Full (when hot)
4 Add fluid (when hot)

Hot: Vehicle has been driven around 50 mph (80 km/h) for 20 minutes, or slightly longer in frigid temperatures. (Fluid temperature, 104°F - 175°F [40°C - 80°C])

Cold: Engine has not been run for about 5 hours. (Room temperature, 32°F - 104°F [0°C - 40°C])

►4.0 L V6 (1GR-FE) engine

1 Full (when cold)
2 Add fluid (when cold)
3 Full (when hot)
4 Add fluid (when hot)

Hot: Vehicle has been driven around 50 mph (80 km/h) for 20 minutes, or slightly longer in frigid temperatures. (Fluid temperature, 140°F - 175°F [60°C - 80°C])

Cold: Engine has not been run for about 5 hours. (Room temperature, 50°F - 85°F [10°C - 30°C])

Checking the fluid level

Make sure to check the fluid type and prepare the necessary items.

Fluid type	Automatic transmission fluid DEXRON® II or III
Items	Rag or paper towel

STEP 1 Clean all dirt off the reservoir.

STEP 2 Remove the cap by turning it counterclockwise.

STEP 3 Wipe the dipstick clean.

STEP 4 Reinstall and remove the reservoir cap again.

STEP 5 Check the fluid level.

CAUTION

Checking the fluid level

Take care, as the reservoir may be hot.

NOTICE

When adding fluid

Avoid overfilling, or the power steering may be damaged.

After replacing the reservoir cap

Check the steering box case, vane pump and hose connections for leaks or damage.

Battery

Battery exterior

Make sure that the battery terminals are not corroded and that there are no loose connections, cracks, or loose clamps.

1 Terminals

2 Hold-down clamp

Before recharging

When recharging, the battery produces hydrogen gas which is flammable and explosive. Therefore, before recharging:

- If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
- Make sure the power switch on the charger is off when connecting and disconnecting the charger cables to the battery.

CAUTION

Chemicals in the battery

A battery contains poisonous and corrosive sulfuric acid and may produce hydrogen gas which is flammable and explosive. To reduce the risk of death or serious injury, take the following precautions while working on or near battery:

- Do not cause sparks by touching the battery terminals with tools.
- Do not smoke or light a match near the battery.
- Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the battery.
- Keep children away from the battery.

Where to safety charge the battery

Always charge the battery in an open area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.

How to recharge the battery

Only perform a slow charge (5A or less).
The battery may explode if charged at a quicker rate.

Emergency measures regarding electrolyte

- If electrolyte gets in your eyes
  Flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the nearest medical facility.
- If electrolyte gets on your skin
  Wash the affected area thoroughly. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes
  It can soak through clothing on to your skin. Immediately take off the clothing and follow the procedure above if necessary.
- If you accidentally swallow electrolyte
  Drink a large quantity of water or milk. Get emergency medical attention immediately.

NOTICE

When recharging the battery

Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

Washer fluid

If the washer does not work, the washer tank may be empty.

Open the lid.

Add washer fluid.

CAUTION

When refilling the washer fluid

Do not refill the washer fluid when the engine is hot or running, as the washer fluid contains alcohol and may catch fire if spilled on the engine etc.

NOTICE

Do not use any fluid other than washer fluid

Do not use soapy water or engine antifreeze instead of washer fluid.
Doing so may cause streaking on the vehicle's painted surfaces.

Diluting washer fluid

Dilute washer fluid with water as necessary.
Refer to the freezing temperatures listed on the label of the washer fluid bottle.

Replace or rotate tires in accordance with maintenance schedules and treadwear.

■ Checking tires

1 New tread

2 Treadwear indicator

3 Worn tread

The location of treadwear indicators is shown by the "TWI" or "△" marks, etc., molded on the sidewall of each tire.

Check spare tire condition and inflation pressure if not rotated.

■ Tire rotation

Rotate the tires in the order shown.

To equalize tire wear and extend tire life, Toyota recommends that tire rotation is carried out at the same interval as tire inspection.

Vehicles with P215/70R15 and P265/70R16 tires: Do not fail to initialize the tire pressure warning system after tire rotation.

■ The tire pressure warning system

Your Toyota is equipped with a tire pressure warning system that uses tire pressure warning valves and transmitters to detect low tire inflation pressure before serious problems arise. (→P. 487)

Installing tire pressure warning valves and transmitters

When replacing tires or wheels, tire pressure warning valves and transmitters must also be installed.

When new tire pressure warning valves and transmitters are installed, new tire pressure warning valve and transmitter ID codes must be registered in the tire pressure warning computer and tire pressure warning system must be initialized. Have tire pressure warning valve and transmitter ID codes registered by your Toyota dealer. (→P. 432)

Initializing the tire pressure warning system

■ The tire pressure warning system must be initialized in the following circumstances:

- Vehicles with P215/70R15 and P265/70R16 tires: When rotating the tires on vehicles differing with front and rear tire inflation pressures.
- When changing the tire inflation pressure by changing traveling speed or load weight, etc.
- When changing the tire size.

When the tire pressure warning system is initialized, the current tire inflation pressure is set as the pressure benchmark.

■ How to initialize the tire pressure warning system

STEP 1 Park the vehicle in safe place and turn the engine switch to the LOCK position.

While the vehicle is moving, initialization is not performed.

STEP 2 Adjust the tire inflation pressure to the specified cold tire inflation pressure level. (→P. 542)

Make sure to adjust the tire pressure to the specified cold tire inflation pressure level. The tire pressure warning system will operate based on this pressure level.

STEP 3 Turn the engine switch to the ON position.

Press and hold the tire pressure warning reset switch until the tire pressure warning light blinks slowly 3 times.

STEP 5 Wait for a few minutes with the engine switch in the ON position, and then turn the engine switch to the ACC or LOCK position.

Registering ID codes

The tire pressure warning valve and transmitter is equipped with a unique ID code. When replacing a tire pressure warning valve and transmitter, it is necessary to register the ID code of tire pressure warning valve and transmitter. Have the ID code registered by your Toyota dealer.

■ **When to replace your vehicle's tires**

Tires should be replaced if:

- You have tire damage such as cuts, splits, cracks deep enough to expose the fabric or bulges indicating internal damage
- A tire goes flat repeatedly or cannot be properly repaired due to the size or location of a cut or other damage

If you are not sure, consult with your Toyota dealer.

■ **Replacing tires and wheels**

If the ID code of the tire pressure warning valve and transmitter is not registered, the tire pressure warning system will not work properly. After driving for about 20 minutes, the tire pressure warning light blinks for 1 minute and stays on to indicate a system malfunction.

■ **Tire life**

Any tire over 6 years old must be checked by a qualified technician even if they have seldom or never been used or damage is not obvious.

■ **If the tread wears down below 0.16 in. (4 mm) on snow tires**

The effectiveness of snow tires is lost.

■ **Maximum load of tire**

Check that the number given by dividing the maximum load by 1.10 of the replacement tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater.
For the GAWR, see the Certification Label. For the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire (→P. 550).

▶ Regular Cab and Double Cab models

▶Access Cab models

■Tire types

1 Summer tires

Summer tires are high-speed performance 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 roads or icy roads, the use of snow tires is recommended. When 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 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.

3 Snow tires

For driving on snow-covered roads or icy roads, we recommend using snow tires. If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Since your vehicle has radial tires as original equipment, make sure your snow tires also have radial construction. Do not install studded tires without first checking local regulations for possible restriction. Snow tires should be installed on all wheels. (→P. 219)

■Initializing the tire pressure warning system

Initialize the tire pressure warning system with the tire inflation pressure adjusted to the specified level.

■ If you push the tire pressure warning reset switch accidentally

If initialization is performed, adjust the tire inflation pressure to the specified level and initialize the tire pressure warning system again.

■ When the initialization of the tire pressure warning system has failed

Initialization can be completed in a few minutes. However, in the following cases, the settings have not been recorded and the system will not operate properly. If repeated attempts to record tire inflation pressure settings are unsuccessful, have the vehicle inspected by your Toyota dealer.

- When operating the tire pressure warning reset switch, the tire pressure warning light does not blink 3 times.
- After carrying out the initialization procedure, the tire pressure warning light blinks for 1 minute then stays on after driving for about 20 minutes.

■ Routine tire inflation pressure checks

The tire pressure warning system does not replace routine tire inflation pressure checks. Make sure to check tire inflation pressure as part of your routine of daily vehicle checks.

■ Tire pressure warning system certification

FCC ID: PAXPMV107J

FCC ID: PAXPMV108J

FCC ID: HYQ13BCX

▶ For vehicles sold in U.S.A.

NOTE:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

▶ For vehicles sold in Canada

NOTE:
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION

When inspecting or replacing tires

Observe the following precautions to prevent accidents. Failure to do so may cause damage to parts of the drive train, as well as dangerous handling characteristics, which may lead to an accident resulting in death or serious injury.

- Do not mix tires of different makes, models or tread patterns.
  Also, do not mix tires of remarkably different treadwear.
- Do not use tire sizes other than those recommended by Toyota.
- Do not mix differently constructed tires (radial, bias-belted or bias-ply tires).
- Do not mix summer, all season and winter tires.
- Do not use tires that have been used on another vehicle.
- Do not use tires if you do not know how they were used previously.

When initializing the tire pressure warning system

Do not push the tire pressure warning reset switch without first adjusting the tire inflation pressure to the specified level. Otherwise, the tire pressure warning light may not come on even if the tire inflation pressure is low, or it may come on when the tire inflation pressure is actually normal.

NOTICE

Repairing or replacing tires, wheels, tire pressure warning valves, transmitters and tire valve caps

- When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Toyota dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.
- When replacing tire valve caps, do not use tire valve caps other than those specified. The cap may become stuck.

To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Toyota dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire. (→P. 431)

Driving on rough roads

Take particular care when driving on roads with loose surfaces or potholes.
These conditions may cause losses in tire inflation pressure, reducing the cushioning ability of the tires. In addition driving on rough roads may cause damage to the tires themselves, as well as the vehicle's wheels and body.

If tire inflation pressures become low while driving

Do not continue driving, or your tires and/or wheels may be ruined.

Tire inflation pressure

■ Tire inflation pressure

The recommended cold tire inflation pressure and tire size is displayed on the tire and loading information label. (→P. 542)

▶Regular Cab and Double Cab models

STY43AF069

▶Access Cab models

STY43AF070

Inspection and adjustment procedure

1 Tire valve

2 Tire pressure gauge

STEP 1 Remove the tire valve cap.

STEP 2 Press the tip of the tire pressure gauge onto the tire valve.

STEP 3 Read the pressure using the graduations of the gauge.

STEP 4 If the tire inflation pressure is not within the recommended levels, adjust inflate the tire.
If you add too much air, press the center of the valve to lower.

STEP 5 After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.

STEP 6 Reinstall the tire valve cap.

Tire inflation pressure check interval

You should check tire pressure every two weeks, or at least once a month.
Do not forget to check the spare.

Effects of incorrect tire inflation pressure

Driving with incorrect tire inflation pressure may result in the following:

- Reduced fuel efficiency
- Reduced driving comfort and tire life
- Reduced safety
- Damage to the drive train

If a tire needs frequent refilling, have it checked by your Toyota dealer.

Instructions for checking tire inflation pressure

When checking tire inflation pressure, observe the following:

- Check 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 mile or 1.5 km, you will get an accurate cold tire inflation pressure reading.
- Always use a tire pressure gauge.
  The appearance of the tire can be misleading. In addition, tire inflation pressures that are even just a few pounds off can degrade ride and handling.
- Do not bleed or reduce tire inflation pressure after driving. It is normal for the tire inflation pressure to be higher after driving.
- Never exceed the vehicle capacity weight.
  Passengers and luggage weight should be placed so that the vehicle is balanced.

CAUTION

Proper inflation is critical to save tire performance

Keep your tires properly inflated.
Otherwise, the following conditions may occur and result in an accident causing death or serious injury.

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts resulting from overheated tires
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

NOTICE

When inspecting and adjusting tire inflation pressure

Be sure to reinstall the tire valve caps.
Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps have been lost, replace them as soon as possible.

If a wheel is bent, cracked or heavily corroded, it should be replaced.
Otherwise, the tire may separate from the wheel or cause loss of handling control.

Wheel selection

When replacing wheels, care should be taken to ensure that they are equivalent to those removed in load capacity, diameter, rim width, and inset*.
Replacement wheels are available at your Toyota dealer.

*: Conventionally referred to as “offset”.

Toyota does not recommend using:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened

Wheel precautions

- Use only Toyota wheel nuts and wrench designed for use with your aluminum wheels.
- When rotating, repairing or changing your tires, check that the wheel nuts are still tight after driving 100 miles (160 km).
- Be careful not to damage the aluminum wheels when using tire chains.
- Use only Toyota genuine balance weights or equivalent and a plastic or rubber hammer when balancing your wheels.

When replacing wheels

The wheels of your Toyota are equipped with tire pressure warning valves and transmitters (except for spare tire) that allow the tire pressure warning system to provide advanced warning in the event of a loss in tire inflation pressure. Whenever wheels are replaced, the tire pressure warning valves and transmitters must be installed. (→P. 431)

CAUTION

When replacing wheels

- Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in loss of handling control.
- Never use an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing death or serious injury.

When installing the wheel nuts

- Be sure to install the wheel nuts with the tapered end facing inward. Installing the nuts with the tapered end facing outward can cause wheel to break and eventually cause a wheel to come off while driving, which could lead to an accident resulting in death or serious injury.
- Never use oil or grease on the wheel bolts or wheel nuts.
  Oil and grease may cause the wheel nuts to be excessively tightened, leading to bolt or disc wheel damage. In addition, the oil or grease can cause the wheel nuts to loosen and the wheel may fall off, causing an accident and resulting in death or serious injury. Remove any oil or grease from the wheel bolts or wheel nuts.

NOTICE

Replacing tire pressure warning valves and transmitters

- Because tire repair or replacement may affect the tire pressure warning valves and transmitters, make sure to have tires serviced by your Toyota dealer or other qualified service shop. In addition, make sure to purchase your tire pressure warning valves and transmitters at your Toyota dealer.
- Ensure that only genuine Toyota wheels are used on your vehicle.
  Tire pressure warning valves and transmitters may not work properly with non-genuine wheels.

Air conditioning filter

The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

■ Removal method

STEP 1 Turn the engine switch to the LOCK position.

STEP 2

Open the glove box.

STEP 3

Slide off the damper.

STEP 4

Push in each side of the glove box to disconnect the claws.

Open the filter door.

Remove the filter.

■ Replacement method

Remove the air conditioning filter and replace it with a new one.

When installing the filter, follow the instructions indicated on the label.

Checking interval

Inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, early replacement may be required. (For scheduled maintenance information, please refer to the “Scheduled Maintenance Guide” or “Owner’s Manual Supplement”.)

If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.

NOTICE

When using the air conditioning system

Make sure that a filter is always installed.
Using the air conditioning system without a filter may cause damage to the system.

Wireless remote control battery*

Replace the battery with a new one if it is discharged.

■ You will need the following items:

Lithium battery CR2032

■ Replacing the battery

Remove the cover using a coin protected with tape etc.

Remove the discharged transmitter battery.

Insert a new battery with the "+" terminal facing up.

*: If equipped

If the wireless remote control battery is discharged

The following symptoms may occur.

- The wireless remote control will not function properly.
- The operational range is reduced.

Use a CR2032 lithium battery

- Batteries can be purchased at your Toyota dealer, jewelers, or camera stores.
- Replace only with the same or equivalent type recommended by your Toyota dealer.
- Dispose of used batteries according to the local laws.

CAUTION

Removed battery and other parts

These parts are small and if swallowed by a child, they can cause choking. Keep away from children. Failure to do so could result in death or serious injury.

Certification for the lithium battery

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

NOTICE

For normal operation after replacing the battery

Observe the following precautions to prevent accidents.

- Always work with dry hands.
  Moisture may cause the battery to rust.
- Do not touch or move any other components inside the remote control.
- Do not bend either of the battery terminals.

Checking and replacing fuses

If any of the electrical components do not operate, a fuse may have blown. If this happens, check and replace the fuses as necessary.

STEP 1 Turn the engine switch to the LOCK position.

STEP 2 The fuses are located in the following places. To check the fuses, follow the instructions below.

▶ Engine compartment

Push the tab in and lift the lid off.

▶ Under the instrument panel

1.Open the auxiliary box.

2.Pull up the box and disengage the claws. Remove the stoppers from the cutouts and remove the box.

STEP 3 After a system failure, see “Fuse layout and amperage ratings” (→P. 455) for details about which fuse to check.

STEP 4

Remove the fuse with the pull-out tool.

STEP 5 Check if the fuse has blown.

▶Type A

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

▶ Type B

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

▶ Type C

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

▶ Type D

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

Fuse layout and amperage ratings

Engine compartment

▶ Type A

STY43AF109

▶ Type B

STY43AF110

Fuse		Ampere	Circuit
1	A/C	10 A	Air conditioning system
2	TOWING TAIL	30 A	Trailer lights (tail lights)
3	FOG FR	15 A	Front fog lights
4	STOP	10 A	Stop lights, high mounted stop-light, vehicle stability control system, anti-lock brake system, shift lock system, multiport fuel injection system/sequential multiport fuel injection system, towing lights
5	TOWING BRK	30 A	Trailer brake controller
6	EFI	10 A	Multiport fuel injection system/ sequential multiport fuel injection system
7	S/HTR NO.2	30 A	Seat heaters
8	OBD	7.5 A	On-board diagnosis system
9	BATT CHG	30 A	Trailer sub battery
10	AIR PMP HTR	10 A	AI system
11	TOWING	30 A	Towing lights
12	TURN & HAZ	15 A	Turn signal lights, emergency flashers, meter and gauge
13	RADIO NO.2	30 A	Audio system
14	H-LP RH-LO	10 A	Right-hand headlight (low beam), front fog lights
15	H-LP LH-LO	10 A	Left-hand headlight (low beam)
16	H-LP RH-HI	10 A	Right-hand headlight (high beam)
17	H-LP LH-HI	10 A	Left-hand headlight (high beam), meter and gauge
18	ETCS	10 A	Multiport fuel injection system/ sequential multiport fuel injection system, electronic throttle control system

Fuse		Ampere	Circuit
19	ALT-S	7.5 A	Charging system
20	EFI-MAIN	20 A	Multiport fuel injection system/ sequential multiport fuel injection system
21	HORN	10 A	Horn
22	A/F HTR	15 A	Multiport fuel injection system/ sequential multiport fuel injection system
23	ECU-B	7.5 A	Wireless remote control system, air conditioning system, multiplex communication system, meter and gauge, front passenger occupant classification system, garage door opener
24	DOME	7.5 A	Interior light, personal lights, clock, vanity lights
25	RADIO NO.1	20 A	Audio system
26	STA	7.5 A	Starting system, multiport fuel injection system/sequential multi-port fuel injection system, meter and gauge, clutch start cancel switch
27	Spare	10 A	Spare fuse
28	Spare	15 A	Spare fuse
29	S/HTR NO.1	50 A	Seat heaters
30	J/B	50 A	TAIL, AC SKT, DR LCK, D FR P/W, D RR P/W, P FR P/W and P RR P/W fuses
31	AM1	50 A	ACC, IG1, IG1 NO.2, WIP, WSH, 4WD, BKUP LP and STA fuses
32	HTR	50 A	A/C fuse, air conditioning system
33	ABS NO.1	50 A	Anti-lock brake system, vehicle sta-bility control system

Fuse		Ampere	Circuit
34	AM2	30 A	IGN and GAUGE fuses, multiport fuel injection system/sequential multiport fuel injection system
35	AIR PMP	50 A	Multiport fuel injection system/ sequential multiport fuel injection system
36	ABS NO.2	30 A	Anti-lock brake system, vehicle stability control system
37	INV	100 A	Power outlets
38	ALT	120 A*	AM1, AC SKT, HEATER, FR FOG, STOP, OBD, J/B, TOWING TAIL, TOWING BRK and BATT CHG fuses
		140 A*	

*: Replace the fuse with one of the same ampere rating as the original

Under the instrument panel

STY43AF074

Fuse		Ampere	Circuit
1	IGN	15 A	Multiport fuel injection system/ sequential multiport fuel injection system, anti-lock brake system, traction control system, vehicle stability control system, SRS airbag system, front passenger occupant classification system
2	GAUGE	7.5 A	Meter and gauge, emergency flashers
3	TAIL	10 A	Tail lights, license plate lights, parking lights, multiport fuel injection system/sequential multiport fuel injection system, instrument panel light control, illuminations
4	ACC	7.5 A	Shift lock system, outside rear view mirrors, audio system, power outlets
5	PWR OUTLET	15 A	Power outlets
6	DR LCK	20 A	Door lock system

Fuse		Ampere	Circuit
7	IG1 NO.2	10 A	Anti-lock brake system, vehicle stability control system, stop lights, charging system, multiport fuel injection system/sequential multiport fuel injection system, air conditioning system, instrument panel light control, anti-glare inside rear view mirror, back monitor, clutch start cancel switch, rear differential lock system, power outlets, tire pressure warning system
8	BKUP LP	10 A	Trailer lights (back-up lights)
9	IG1	10 A	Anti-lock brake system, traction control system, vehicle stability control system, back-up lights, air conditioning system, shift lock system, audio system
10	P RR P/W	20 A	Rear passenger’s power window (right side)
11	P FR P/W	20 A	Front passenger’s power window
12	WSH	10 A	Wipers and washer
13	D RR P/W	20 A	Rear passenger’s power window (left side)
14	4WD	20 A	Four-wheel drive system, rear differential lock system
15	WIP	30 A	Wipers and washer
16	D FR P/W	30 A	Power windows

After a fuse is replaced

- If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement. (→P. 462)
- If the replaced fuse blows again, have the vehicle inspected by your Toyota dealer.

If there is an overload in the circuits

The fuses are designed to blow, protecting the wiring harness from damage.

CAUTION

To prevent system breakdowns and vehicle fire

Observe the following precautions.
Failing to do so may cause damage to the vehicle, and possibly a fire or injury.

- Never use a fuse of a higher amperage rating than indicated, or use any other object in place of a fuse.
- Always use a genuine Toyota fuse or equivalent.
  Never replace a fuse with a wire, even as a temporary fix.
- Do not modify the fuse or the fuse box.

NOTICE

Before replacing fuses

Have the cause of electrical overload determined and repaired by your Toyota dealer as soon as possible.

Light bulbs

You may replace the following bulbs yourself. The difficulty level of replacement varies depending on the bulb. If necessary bulb replacement seems difficult to perform, contact your Toyota dealer.

For more information about replacing other light bulbs, contact your Toyota dealer.

■ Prepare a replacement light bulb

Check the wattage of the light bulb being replaced. (→P. 546)

■ Front bulb locations

Rear bulb locations

Replacing light bulbs

Headlights

Unplug the connector.

STEP 2

STY43AF044

Remove the rubber cover.

STEP 3

STY43AF045

Release the bulb retaining spring.

STEP 4

STY43AF046

Remove the bulb.

To install a new bulb, align the tabs of the bulb with the cutouts of the mounting hole.

■ Front fog lights (if equipped)

Unplug the connector while pulling the lock release.

Turn the bulb counterclockwise.

■ Front side marker lights

Turn the bulb base counterclockwise.

Remove the light bulb.

■ Front turn signal lights/parking lights/daytime running lights

Turn the bulb base counterclockwise.

Remove the light bulb.

■ Stop/tail lights, rear side marker lights (bulb type only), back-up lights and rear turn signal lights

Remove the bolts and rear combination assembly.

Unplug the connector while depressing the lock release.

Turn the bulb bases counterclockwise.

1 Rear turn signal light

2 Stop/tail and rear side marker lights (bulb type only)

3 Back-up light

Remove the light bulb.

1 Rear turn signal light

2 Stop/tail and rear side marker lights (bulb type only)

3 Back-up light

■ High mounted stoplight

Remove the screws and cover.

Remove the light bulbs.

License plate lights

Remove the screw and light unit.

Turn the bulb base counterclockwise.

Remove the light bulb.

Lights other than the above

If any of the lights listed below has burnt out, have it replaced by your Toyota dealer.

- Side turn signal lights (if equipped)
- Stop/tail lights (LED type)
- Rear side marker lights (LED type)

Condensation build-up on the inside of the lens

Temporary condensation build-up on the inside of the headlight lens does not indicate a malfunction. Contact your Toyota dealer for more information in the following situations:

- Large drops of water are built up on the inside of the lens.
- Water has built up inside the headlight.

LED light bulbs

The side turn signal lights (if equipped), stop/tail and rear side marker lights (LED type) consist of a number of LEDs. If any of the LEDs burn out, take your vehicle to your Toyota dealer to have the light replaced.

If two or more LEDs in a stop light burn out, your vehicle may not conform to local laws (SAE).

CAUTION

■ **Replacing light bulbs**

- Turn off the headlights. Do not attempt to replace the bulb immediately after turning off the headlights.
  The bulbs become very hot and may cause burns.
- Do not touch the glass portion of the light bulb with bare hands. When it is unavoidable to hold the glass portion, use and hold with a clean dry cloth to avoid getting moisture and oils on the bulb.
  Also, if the bulb is scratched or dropped, it may blow out or crack.
- Fully install light bulbs and any parts used to secure them. Failing to do so may result in heat damage, fire, or water entering the headlight unit. This may damage the headlights or cause condensation to build up on the lens.

■ **To prevent damage or fire**

Make sure bulbs are fully seated and locked.

Emergency flashers

Use the emergency flashers if the vehicle malfunctions or is involved in an accident.

Press the switch to flash all the turn signal lights. To turn them off, press the switch once again.

NOTICE

To prevent battery discharge

Do not leave the emergency flashers on longer than necessary when the engine is not running.

If your vehicle needs to be towed

If towing is necessary, we recommend having your vehicle towed by your Toyota dealer or a commercial towing service, using a lift-type truck or a flat bed truck.
Use a safety chain system for all towing, and abide by all 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 or flat bed truck.

Before towing

The following may indicate a problem with your transmission. Contact your Toyota dealer before towing.

- The engine is running, but the vehicle will not move.
- The vehicle makes an abnormal sound.

Emergency towing (4WD models and PreRunner only)

If a tow truck is not available, in an emergency your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook. This should only attempted on hard, surfaced roads for short distances at low speeds.
A driver must be in the vehicle to steer and operate the brakes. The vehicle's wheels, drive train, axles, steering and brakes must be in good condition.

▶Type A

Towing hook

▶Type B

Towing hook

■Emergency towing procedure

STEP 1 The engine switch must be in the ACC (engine off) or the ON (engine running) position.

STEP 2 4WD models: Put the front-wheel drive control switch in H2.

STEP 3 Put the shift lever in N.

STEP 4 Release the parking brake.

⚠ CAUTION

■Caution while towing

- Use extreme caution when towing the vehicle.
  Avoid sudden starts or erratic driving maneuvers which place excessive stress on the emergency towing hook and the cables or chains. Always be cautious of the surroundings and other vehicles while towing.
- If the engine is not running, the power assist for the brakes and steering will not function, making steering and braking more difficult.

NOTICE

Emergency towing hook precautions

- Before emergency towing, check that the hook is not broken or damaged.
- 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.

Towing with a sling-type truck

NOTICE

To prevent body damage

Do not tow with a sling-type truck, either from the front or rear.

Towing with a wheel lift-type truck from the front

Vehicles with an automatic transmission: Use a towing dolly under the rear wheels.

2WD models with a manual transmission: We recommend to use a towing dolly under the rear wheels.

When not using a towing dolly, release the parking brake and shift the shift lever to N.

4WD models with a manual transmission: We recommend to use a towing dolly under the rear wheels.

When not using a towing dolly, release the parking brake, shift the shift lever to N and put the front-wheel drive control switch in H2.

NOTICE

■ **To prevent causing serious damage to the transmission (vehicles with an automatic transmission)**

Never tow this vehicle wheels on the ground.

Towing with a wheel lift-type truck from the rear

▶2WD models

STY51AF005

Turn the engine switch to the ACC position.

▶4WD models

STY51AF006

We recommend to use a towing dolly under the front wheels.

When not using a towing dolly, turn the engine switch to the ACC position, shift the shift lever to N and put the front-wheel drive control switch in H2.

NOTICE

■To prevent damaging the vehicle

- Do not tow the vehicle with the key removed or in the LOCK position.
  The steering lock mechanism is not strong enough to hold the front wheel straight.
- When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed.

Using a flat bed truck

►Type A

If your Toyota is transported by a flat bed truck, it should be tied down at the locations shown in the illustration.

▶Type B

If your Toyota is transported by a flat bed truck, it should be tied down at the locations shown in the illustration.

If you use chains or cables to tie down your vehicle, the angles shaded in black must be 45°.

Do not overly tighten the tie downs or the vehicle may be damaged.

Apply the parking brake firmly.

If you think something is wrong

If you notice any of the following symptoms, your vehicle probably needs adjustment or repair. Contact your Toyota dealer as soon as possible.

Visible symptoms

- Fluid leaks under the vehicle
  (Water dripping from the air conditioning after use is normal.)
- Flat-looking tires or uneven tire wear
- Engine coolant temperature gauge needle continually points higher than normal

Audible symptoms

- Changes in exhaust sound
- Excessive tire squeal when cornering
- Strange noises related to the suspension system
- Pinging or other noises related to the engine

Operational symptoms

- Engine misfire, stumbling or running rough
- Appreciable loss of power
- Vehicle pulls heavily to one side when braking
- Vehicle pulls heavily to one side when driving on a level road
- Loss of brake effectiveness, spongy feeling, pedal almost touches the floor

Fuel pump shut off system

To minimize the risk of fuel leakage when the engine stalls or an air-bag inflates upon collision, the fuel pump shut off system stops supplying fuel to the engine.

Follow the procedure below to restart the engine after the system is activated.

STEP 1 Turn the engine switch to the ACC or LOCK position.

STEP 2 Restart the engine.

NOTICE

Before starting the engine

Inspect the ground under the vehicle.
If you find that fuel has leaked onto the ground, the fuel system has been damaged and is in need of repair. Do not restart the engine.

Maintenance data (fuel, oil level, etc.)

Dimensions

►2WD models except PreRunner

Cab type	Regular Cab	Access Cab		Double Cab
		Except X-Runner	X-Runner	
Overall length	190.4 in. (4835 mm)	208.1 in. (5285 mm)	208.5 in. (5295 mm)	208.1 in. (5285 mm)
Overall width	72.2 in. (1835 mm)		74.0 in. (1880 mm)	74.6 in. (1895 mm)
Overall height*	65.8 in. (1670 mm)	66.1 in. (1680 mm)	65.6 in. (1665 mm)	66.1 in. (1680 mm)
Wheelbase	109.6 in. (2785 mm)	127.4 in. (3235 mm)		
Front tread	61.0 in. (1550 mm)		62.2 in. (1580 mm)	61.0 in. (1550 mm)
Rear tread	61.0 in. (1550 mm)		62.2 in. (1580 mm)	61.0 in. (1550 mm)

*: Unladen vehicle

►4WD models and PreRunner (except Regular Cab models)

Cab type	Regular Cab	Access Cab
Overall length	190.4 in. (4835 mm)	208.1 in. (5285 mm)
Overall width	74.6 in. (1895 mm)	
Overall height*	69.9 in. (1775 mm)	70.3 in. (1785 mm)
Wheelbase	109.6 in. (2785 mm)	127.4 in. (3235 mm)
Front tread	63.0 in. (1600 mm)	
Rear tread	63.4 in. (1610 mm)	

*: Unladen vehicle

Cab type		Double Cab	
		With short deck	With long deck
Overall length		208.1 in. (5285 mm)	221.3 in. (5620 mm)
Overall width		74.6 in. (1895 mm)	
Overall height*	2.7 L 4-cylinder (2TR-FE) engine	70.3 in. (1785 mm)	
	4.0 L V6 (1GR-FE) engine	70.1 in. (1780 mm)	
Wheelbase		127.4 in. (3235 mm)	140.6 in. (3570 mm)
Front tread		63.0 in. (1600 mm)	
Rear tread		63.4 in. (1610 mm)	

*: Unladen vehicle

Vehicle capacity weight

▶2WD models except PreRunner

Cab type	Engine	Deck type	Vehicle capacity weight (Occupant + luggage)*
Regular Cab	2.7 L 4-cylinder (2TR-FE) engine	Long deck	1150 lb. (520 kg)
Access Cab	2.7 L 4-cylinder (2TR-FE) engine		1050 lb. (475 kg)
	4.0 L V6 (1GR-FE) engine		850 lb. (385 kg)
Double Cab	2.7 L 4-cylinder (2TR-FE) engine		950 lb. (430 kg)

*: Installing accessories in addition to those installed at the factory increases vehicle weight, thereby reducing vehicle capacity weight. Contact your Toyota dealer about the weight of accessory parts.

▶PreRunner

Cab type	Engine	Deck type	Vehicle capacity weight (Occupant + luggage)*
Access Cab	2.7 L 4-cylinder (2TR-FE) engine	Long deck	1300 lb. (585 kg)
	4.0 L V6 (1GR-FE) engine		1250 lb. (565 kg)
Double Cab	2.7 L 4-cylinder (2TR-FE) engine	Short deck	1300 lb. (585 kg)
	4.0 L V6 (1GR-FE) engine		1150 lb. (520 kg)
		Long deck	

*: Installing accessories in addition to those installed at the factory increases vehicle weight, thereby reducing vehicle capacity weight. Contact your Toyota dealer about the weight of accessory parts.

▶4WD models

Cab type	Engine	Deck type	Vehicle capacity weight (Occupant + luggage)*
Regular Cab	2.7 L 4-cylinder (2TR-FE) engine	Long deck	1300 lb. (585 kg)
Access Cab	2.7 L 4-cylinder (2TR-FE) engine		1200 lb. (540 kg)
	4.0 L V6 (1GR-FE) engine		1140 lb. (515 kg)
Double Cab	4.0 L V6 (1GR-FE) engine	Short deck	1040 lb. (470 kg)
		Long deck	

*: Installing accessories in addition to those installed at the factory increases vehicle weight, thereby reducing vehicle capacity weight. Contact your Toyota dealer about the weight of accessory parts.

TWR (Trailer Weight Rating)

▶ Regular Cab models

Model code*1	Engine	Driving system	TWR
TRN220L-TRMDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	3500 lb. (1585 kg)
TRN220L-TRPDKA			
TRN240L-TRMDKA		4WD	
TRN240L-TRPDKA			

▶ Access Cab models

Model code*1	Engine	Driving system	TWR
TRN225L-CRMDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	3500 lb. (1585 kg)
TRN225L-CRPDKA			
TRN245L-CRMDKA		4WD	
TRN245L-CRPDKA			
TRN265L-CRPDKA		2WD	
GRN225L-CRFDKA	4.0 L V6 (1GR-FE) engine		3300 lb. (1495 kg)
GRN245L-CRADKA		4WD	3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3
GRN245L-CRFDKA			3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3
GRN265L-CRADKA		2WD	3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3

▶Double Cab models

Model code*1	Engine	Driving system	TWR
TRN225L-PRPDKA	2.7 L 4-cylinder (2TR-FE) engine	2WD	3400 lb. (1540 kg)
TRN265L-PRPDKA			3500 lb. (1585 kg)
GRN245L-PRADKA	4.0 L V6 (1GR-FE) engine	4WD	3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3
GRN245L-PRFDKA			3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3
GRN250L-PRADKA			3400 lb. (1540 kg)*2
			6200 lb. (2810 kg)*3
GRN265L-PRADKA		2WD	3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3
GRN270L-PRADKA			3500 lb. (1585 kg)*2
			6500 lb. (2945 kg)*3

*1: The model code is indicated on the Certification Label. (→P. 531)
*2: Without towing package
*3: With towing package

Vehicle identification

■ Vehicle identification number

The vehicle identification number (VIN) is the legal identifier for your vehicle. This is the primary identification number for your Toyota. It is used in registering the ownership of your vehicle.

This number is stamped on the top left of the instrument panel.

▶Regular Cab and Double Cab models

This number is also on the Certification Label.

▶Access Cab models

This number is also on the Certification Label.

■ Engine number

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

►2.7 L 4-cylinder (2TR-FE) engine

►4.0 L V6 (1GR-FE) engine

Engine

▶2.7 L 4-cylinder (2TR-FE) engine

Model	2TR-FE
Type	4-cylinder in line, 4-cycle, gasoline
Bore and stroke	3.74 × 3.74 in. (95.0 × 95.0 mm)
Displacement	164.3 cu.in. (2694 cm^3)
Drive belt tension	Automatic adjustment
Valve clearance (engine cold) Intake Exhaust	Automatic adjustment

▶4.0 L V6 (1GR-FE) engine

Model	1GR-FE
Type	6-cylinder V type, 4-cycle, gasoline
Bore and stroke	3.70 × 3.74 in. (94.0 × 95.0 mm)
Displacement	241.4 cu.in. (3956 cm^3)
Drive belt tension	Automatic adjustment
Valve clearance (engine cold) Intake Exhaust	 0.006 — 0.010 in. (0.15 — 0.25 mm) 0.011 — 0.015 in. (0.29 — 0.39 mm)

Fuel

Fuel type	Unleaded gasoline only
Octane Rating	87 (Research Octane Number 91) or higher
Fuel tank capacity (Reference)	21.1 gal. (80.0 L, 17.6 Imp.gal.)

Lubrication system

Oil capacity (Drain and refill - reference*) ▶Without filter	▶2.7 L 4-cylinder (2TR-FE) engine 5.4 qt. (5.1 L, 4.5 Imp.qt.) ▶4.0 L V6 (1GR-FE) engine 2WD models except PreRunner: 4.4 qt. (4.2 L, 3.7 Imp.qt.) 4WD models and PreRunner: 5.2 qt. (4.9 L, 4.3 Imp.qt.)
▶With filter	▶2.7 L 4-cylinder (2TR-FE) engine 6.1 qt. (5.8 L, 5.1 Imp.qt.) ▶4.0 L V6 (1GR-FE) engine 2WD models except PreRunner: 4.8 qt. (4.5 L, 4.0 Imp.qt.) 4WD models and PreRunner: 5.5 qt. (5.2 L, 4.6 Imp.qt.)

*: The engine oil capacity is a reference quantity to be used when changing the engine oil. Warm up and turn off the engine, wait more than 5 minutes, and check the oil level on the dipstick.

■ Engine oil selection

“Toyota Genuine Motor Oil” is used in your Toyota vehicle. Use Toyota approved “Toyota Genuine Motor Oil” or equivalent to satisfy the following grade and viscosity.

Oil grade: ILSAC GF-5 multigrade engine oil

Recommended viscosity:

▶2.7 L 4-cylinder (2TR-FE) engine
SAE 0W-20

SAE 0W-20 is the best choice for good fuel economy and good starting in cold weather.

If SAE 0W-20 is not available, SAE 5W-20 oil may be used. However, it must be replaced with SAE 0W-20 at the next oil change.

Oil viscosity (0W-20 is explained here as an example):

- The 0W in 0W-20 indicates the characteristic of the oil which allows cold startability. Oils with a lower value before the W allow for easier starting of the engine in cold weather.
- The 20 in 0W-20 indicates the viscosity characteristic of the oil when the oil is at high temperature. An oil with a higher viscosity (one with a higher value) may be better suited if the vehicle is operated at high speeds, or under extreme load conditions.

▶4.0 L V6 (1GR-FE) engine
SAE 5W-30

ITNOIL058

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

If SAE 5W-30 is not available, SAE 10W-30 oil may be used. However, it should be replaced with SAE 5W-30 at the next oil change.

Oil viscosity (5W-30 is explained here as an example):

- The 5W in 5W-30 indicates the characteristic of the oil which allows cold startability. Oils with a lower value before the W allow for easier starting of the engine in cold weather.
- The 30 in 5W-30 indicates the viscosity characteristic of the oil when the oil is at high temperature. An oil with a higher viscosity (one with a higher value) may be better suited if the vehicle is operated at high speeds, or under extreme load conditions.

How to read oil container label:

The International Lubricant Specification Advisory Committee (ILSAC) Certification Mark is added to some oil containers to help you select the oil you should use.

ITNOIL050

Cooling system

Capacity ▶2.7 L 4-cylinder (2TR-FE) engine ▶4.0 L V6 (1GR-FE) engine	▶Vehicles with an automatic transmission 9.1 qt. (8.6 L, 7.6 Imp.qt.) ▶Vehicles with a manual transmission 9.2 qt. (8.7 L, 7.7 Imp.qt.) ▶Vehicles with an automatic transmission 10.1 qt. (9.6 L, 8.4 Imp.qt.) ▶Vehicles with a manual transmission 10.3 qt. (9.7 L, 8.5 Imp.qt.)
Coolant type	Use either of the following. • “Toyota Super Long Life Coolant” • Similar high-quality ethylene glycol-based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology Do not use plain water alone.

Ignition system

Spark plug ▶2.7 L 4-cylinder (2TR-FE) engine	
Make DENSO	SK20HR-A11
Gap	0.043 in. (1.1 mm)
▶4.0 L V6 (1GR-FE) engine	
Make DENSO	K20HR-U11
NGK	LFR6C11
Gap	0.043 in. (1.1 mm)

⚠ NOTICE

■ **Iridium-tipped spark plugs (2.7 L 4-cylinder [2TR-FE] engine only)**

Use only iridium-tipped spark plugs. Do not adjust gap when tuning engine.

Electrical system

Battery Open voltage at 68°F (20°C):	12.6 — 12.8 V Fully charged 12.2 — 12.4 V Half charged 11.8 — 12.0 V Discharged (Voltage checked 20 minutes after the key is removed with all the lights turned off)
Charging rates	5 A max.

Differential

Oil capacity	Front (4WD models)	1.59 qt. (1.50 L, 1.32 Imp.qt.)
	Rear	▶2WD models except PreRunner 3.66 qt. (3.46 L, 3.04 Imp.qt.) ▶4WD models and PreRunner 3.12 qt. (2.95 L, 2.60 Imp.qt.)
Oil type and viscosity*		Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent

*: Your Toyota vehicle is filled with “Toyota Genuine Differential Gear Oil” at the factory. Use Toyota approved “Toyota Genuine Differential Gear Oil” or an equivalent oil of matching quality to satisfy the above specification. Please contact your Toyota dealer for further details.

Automatic transmission

▶4-speed models

Fluid capacity*	10.8 qt. (10.2 L, 9.0 Imp.qt.)
Fluid type	Toyota Genuine ATF Type T-IV

▶5-speed models

Fluid capacity*	▶Vehicles without towing package 11.3 qt. (10.7 L, 9.4 Imp.qt.) ▶Vehicles with towing package 11.5 qt. (10.9 L, 9.6 Imp.qt.)
Fluid type	Toyota Genuine ATF WS

*: The fluid capacity is the quantity of reference. If replacement is necessary, contact your Toyota dealer.

⚠ NOTICE

■Automatic transmission fluid type (4-speed models)

Using automatic transmission fluid other than “Toyota Genuine ATF Type T-IV” may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.

■Automatic transmission fluid type (5-speed models)

Using automatic transmission fluid other than “Toyota Genuine ATF WS” may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.

Manual transmission

Gear oil capacity (Reference) ▶2.7 L 4-cylinder (2TR-FE) engine ▶4.0 L V6 (1GR-FE) engine	 ▶2WD models 2.7 qt. (2.6 L, 2.3 Imp.qt.) ▶4WD models 2.3 qt. (2.2 L, 1.9 Imp.qt.) 1.9 qt. (1.8 L, 1.6 Imp.qt.)
Gear oil type	Gear oil API GL-4
Recommended gear oil viscosity	SAE 75W-90

Clutch

Clutch free play	0.2 — 0.6 in. (5 — 15 mm)
Fluid type	FMVSS No. 116 DOT 3 or SAE J1703

Transfer (4WD models)

Oil capacity	1.1 qt. (1.0 L, 0.9 Imp.qt.)
Oil type	Gear oil API GL-4 or GL-5
Recommended oil viscosity	SAE 75W-90

Brakes

Pedal clearance*1 ▶2WD models except PreRunner ▶PreRunner ▶4WD models	4.3 in. (110 mm) 4.2 in. (106 mm) ▶Without off-road package 4.2 in. (106 mm) ▶With off-road package 3.4 in. (88 mm)
Pedal free play	0.04 — 0.24 in. (1 — 6 mm)
Brake pad wear limit	0.04 in. (1.0 mm)
Brake lining wear limit	0.04 in. (1.0 mm)
Parking brake pedal travel*2 (pedal type)	7 — 10 clicks
Parking brake lever travel*3 (lever type)	7 — 10 clicks
Fluid type	FMVSS No. 116 DOT 3 or SAE J1703

*1: Minimum pedal clearance when depressed with a force of 110 lbf (490 N, 50 kgf) with the engine running.

*2: Parking brake pedal travel when depressed with a force of 67.4 lbf (300 N, 30.6 kgf).

*3: Parking brake lever travel when pulled with a force of 44.9 lbf (200 N, 20.4 kgf).

Chassis lubrication (4WD models and PreRunner with 2.7L 4-cylinder [2TR-FE] engine only)

Propeller shafts Spider	Lithium base chassis grease, NLGI No.2

Steering

Free play	Less than 1.2 in. (30 mm)
Power steering fluid type	Automatic transmission fluid DEXRON® II or III

Tires and wheels

▶Type A

Tire size	P215/70R15 97S
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 30 psi (210 kPa, 2.1 kgf/cm^2 or bar) Rear tires: 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Spare tire*: 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 3 psi (20 kPa, 0.2 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	15 × 6 J, 15 × 6 JJ
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

*: If you affix the spare tire to a front position, please make sure to adjust the tire to the correct inflation pressure as soon as possible.

▶Type B

Tire size	P245/75R16 109S
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 30 psi (210 kPa, 2.1 kgf/cm^2 or bar) Rear tires: 30 psi (210 kPa, 2.1 kgf/cm^2 or bar) Spare tire: 30 psi (210 kPa, 2.1 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 3 psi (20 kPa, 0.2 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	16 × 7 J, 16 × 7 JJ
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

▶Type C

Tire size	P265/70R16 111T
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Rear tires: 32 psi (220 kPa, 2.2 kgf/cm^2 or bar) Spare tire*: 32 psi (220 kPa, 2.2 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 3 psi (20 kPa, 0.2 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	16 × 7 JJ
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

*: If you affix the spare tire to a front position, please make sure to adjust the tire to the correct inflation pressure as soon as possible.

▶Type D

Tire size	P265/65R17 110S
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Rear tires: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Spare tire: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 3 psi (20 kPa, 0.2 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	17 × 7 1/2 JJ
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

▶Type E

Tire size	P255/45R18 99V
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 35 psi (240 kPa, 2.4 kgf/cm^2 or bar) Rear tires: 35 psi (240 kPa, 2.4 kgf/cm^2 or bar) Spare tire: 35 psi (240 kPa, 2.4 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 4 psi (30 kPa, 0.3 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	18 × 8 JJ
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

▶ Type F

Tire size	P265/60R18 109H
Tire inflation pressure (Recommended cold tire inflation pressure)	Front tires: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Rear tires: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Spare tire: 29 psi (200 kPa, 2.0 kgf/cm^2 or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 3 psi (20 kPa, 0.2 kgf/cm^2 or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Wheel size	18 × 7 1/2 J
Wheel nut torque	83 ft·lbf (113 N·m, 11.5 kgf·m)

Light bulbs

	Light Bulbs	Bulb No.	W	Type
Exterior	Headlights	—	60/55	A
	Front fog lights*1	—	55	B
	Front side marker lights	—	5	D
	Front turn signal lights/parking lights/ daytime running lights	4157 NAK	27/8	D
	Rear turn signal lights	3157A	27/8	D
	Stop/tail and rear side marker lights*2	3157KX	27/8	C
	Back-up lights	921	18	C
	License plate lights	168	5	C
	High mounted stoplight	168	5	C
Interior	Interior light	—	5	E
	Personal lights	168	5	C

*1: If equipped
*2: Bulb type only
A: HB2 halogen bulbs
B: H11 halogen bulbs
C: Wedge base bulbs (clear)
D: Wedge base bulbs (amber)
E: Double end bulbs

Fuel information

Your vehicle must use only unleaded gasoline.
Select octane rating 87 (Research Octane Number 91) or higher. Use of unleaded gasoline with an octane rating lower than 87 may result in engine knocking. Persistent knocking can lead to engine damage.

At minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A. and CGSB3.5-M93 in Canada.

Fuel tank opening for unleaded gasoline

To help prevent incorrect fueling, your Toyota has a fuel tank opening that only accommodates the special nozzle on unleaded fuel pumps.

If your engine knocks

- Consult your Toyota dealer.
- You may occasionally notice light knocking for a short time while accelerating or driving uphill. This is normal and there is no need for concern.

Gasoline quality

In very few cases, driveability problems may be caused by the brand of gasoline you are using. If driveability problems persist, try changing the brand of gasoline. If this does not correct the problem, consult your Toyota dealer.

Gasoline quality standards

- Automotive manufacturers in the US, Europe and Japan have developed a specification for fuel quality called World-Wide Fuel Charter (WWFC) that is expected to be applied worldwide.
- The WWFC consists of four categories that are based on required emission levels. In the US, category 4 has been adopted.
- The WWFC improves air quality by lowering emissions in vehicle fleets, and customer satisfaction through better performance.

■ Toyota recommends the use of gasoline containing detergent additives

- Toyota recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.
- All gasoline sold in the U.S. contains minimum detergent additives to clean and/or keep clean intake systems, per EPA's lowest additives concentration program.
- Toyota strongly recommends the use of Top Tier Detergent Gasoline. For more information on Top Tier Detergent Gasoline and a list of marketers, please go to the official website www.toptiergas.com.

■ Toyota recommends the use of cleaner burning gasoline

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE (Methyl Tertiary Butyl Ether) 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.

■ Toyota does not recommend blended gasoline

- Use only gasoline containing a maximum of 10% ethanol.
  DO NOT use any flex-fuel or gasoline that could contain more than 10% ethanol, including from any pump labeled E15, E30, E50, E85 (which are only some examples of fuel containing more than 10% ethanol).
- 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.

Toyota does not recommend gasoline containing MMT

Some gasoline contains 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.

NOTICE

Notice on fuel quality

- Do not use improper fuels.
  If improper fuels are used the engine will be damaged.
- Do not use leaded gasoline.
  Leaded gasoline can cause damage to your vehicle's three-way catalytic converters causing the emission control system to malfunction.
- Do not use gasohol other than that stated here.
  Other gasohol may cause fuel system damage or vehicle performance problems.
- Using unleaded gasoline with an octane number or rating lower than the level previously stated will cause persistent heavy knocking.
  At worst, this will lead to engine damage.

Fuel-related poor driveability

If after using a different type of fuel, poor driveability is encountered (poor hot starting, vaporization, engine knocking, etc.), discontinue the use of that type of fuel.

When refueling with gasohol

Take care not to spill gasohol.
It can damage your vehicle's paint.

Tire information

Typical tire symbols

STY61AF001

1 Tire size (→P. 552)

2 DOT and Tire Identification Number (TIN) (→P. 551)

3 Location of treadwear indicators (→P. 430)

4 Tire ply composition and materials

Plies are layers of rubber-coated parallel cords. Cords are the strands which form the plies in a tire.

5 Uniform tire quality grading

For details, see “Uniform tire quality grading” that follows.

6 Load limit at maximum cold tire inflation pressure (→P. 555)

7 Maximum cold tire inflation pressure (→P. 555)

This means the pressure to which a tire may be inflated.

8 TUBELESS or TUBE TYPE

A tubeless tire does not have a tube and air is directly filled in the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.

9 Radial tires or bias-ply tires

A radial tire has RADIAL on the sidewall. A tire not marked RADIAL is a bias-ply tire.

10 Summer tire or all season tire (→P. 434)

An all season tire has M+S on the sidewall. A tire not marked M+S is a summer tire.

Typical DOT and tire identification number (TIN)

1 DOT symbol*

2 Tire Identification Number (TIN)

3 Tire manufacturer's identification mark

4 Tire size code

5 Manufacturer's optional tire type code (3 or 4 letters)

6 Manufacturing week

7 Manufacturing year

*: The DOT symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

Tire size

■ Typical tire size information

The illustration indicates typical tire size.

1 Tire use
(P = Passenger car,
T = Temporary use)

2 Section width (millimeters)

3 Aspect ratio
(tire height to section width)

4 Tire construction code
(R = Radial, D = Diagonal)

5 Wheel diameter (inches)

6 Load index (2 digits or 3 digits)

7 Speed symbol
(alphabet with one letter)

■ Tire dimensions

1 Section width

2 Tire height

3 Wheel diameter

Tire section names

1 Bead
2 Sidewall
3 Shoulder
4 Tread
5 Belt
6 Inner liner
7 Reinforcing rubber
8 Carcass
9 Rim lines
10 Bead wires
11 Chafer

Uniform Tire Quality Grading

This information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S.A. Department of Transportation.
It provides the purchasers and/or prospective purchasers of Toyota vehicles with information on uniform tire quality grading.

Your Toyota dealer will help answer any questions you may have as you read this information.

DOT quality grades

All passenger vehicle tires must conform to Federal Safety Requirements in addition to these grades. Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example: Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example, a tire graded 150 would wear one and a half (1 - 1/2) times as well on the government course as a tire graded 100.
The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B and C, and they represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete.

A tire marked C may have poor traction performance.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

Temperature A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.

Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning: The temperature grades for this tire are established for a tire that is properly inflated and not overloaded.
Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Glossary of tire terminology

Tire related term	Meaning
Cold tire inflation pressure	Tire pressure when the vehicle has been parked for three hours or more, or has not been driven more than 1 mile or 1.5 km under that condition
Maximum inflation pressure	The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire
Recommended inflation pressure	Cold tire inflation pressure recommended by a manufacturer
Accessory weight	The combined weight (in excess of those standard items which may be replaced) of transmission, power steering, power brakes, power windows, power seats, radio and heater, to the extent that these items are available as factory-installed equipment (whether installed or not)
Curb weight	The weight of a motor vehicle with standard equipment, including the maximum capacity of fuel, oil and coolant, and if so equipped, air conditioning and additional weight optional engine
Maximum loaded vehicle weight	The sum of: (a) Curb weight (b) Accessory weight (c) Vehicle capacity weight (d) Production options weight

Tire related term	Meaning
Normal occupant weight	150 lb. (68 kg) times the number of occupants specified in the second column of Table 1* that follows
Occupant distribution	Distribution of occupants in a vehicle as specified in the third column of Table 1* below
Production options weight	The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim
Rim	A metal support for a tire or a tire and tube assembly upon which the tire beads are seated
Rim diameter (Wheel diameter)	Nominal diameter of the bead seat
Rim size designation	Rim diameter and width
Rim type designation	The industry manufacturer's designation for a rim by style or code
Rim width	Nominal distance between rim flanges
Vehicle capacity weight (Total load capacity)	The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity
Vehicle maximum load on the tire	The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight, and dividing by two
Vehicle normal load on the tire	The load on an individual tire that is determined by distributing to each axle its share of curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table 1* below), and dividing by two

Tire related term	Meaning
Weather side	The surface area of the rim not covered by the inflated tire
Bead	The part of the tire that is made of steel wires, wrapped or reinforced by ply cords and that is shaped to fit the rim
Bead separation	A breakdown of the bond between components in the bead
Bias ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread
Carcass	The tire structure, except tread and sidewall rubber which, when inflated, bears the load
Chunking	The breaking away of pieces of the tread or sidewall
Cord	The strands forming the plies in the tire
Cord separation	The parting of cords from adjacent rubber compounds
Cracking	Any parting within the tread, sidewall, or innerliner of the tire extending to cord material
CT	A pneumatic tire with an inverted flange tire and rim system in which the rim is designed with rim flanges pointed radially inward and the tire is designed to fit on the underside of the rim in a manner that encloses the rim flanges inside the air cavity of the tire
Extra load tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Groove	The space between two adjacent tread ribs
Innerliner	The layer(s) forming the inside surface of a tubeless tire that contains the inflating medium within the tire

Tire related term	Meaning
Innerliner separation	The parting of the innerliner from cord material in the carcass
Intended outboard sidewall	(a)The sidewall that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (b)The outward facing sidewall of asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle
Light truck (LT) tire	A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles
Load rating	The maximum load that a tire is rated to carry for a given inflation pressure
Maximum load rating	The load rating for a tire at the maximum permissible inflation pressure for that tire
Maximum permissible inflation pressure	The maximum cold inflation pressure to which a tire may be inflated
Measuring rim	The rim on which a tire is fitted for physical dimension requirements
Open splice	Any parting at any junction of tread, sidewall, or innerliner that extends to cord material
Outer diameter	The overall diameter of an inflated new tire
Overall width	The linear distance between the exteriors of the sidewalls of an inflated tire, including elevations due to labeling, decorations, or protective bands or ribs
Passenger car tire	A tire intended for use on passenger cars, multipurpose passenger vehicles, and trucks, that have a gross vehicle weight rating (GVWR) of 10,000 lb. or less

Tire related term	Meaning
Ply	A layer of rubber-coated parallel cords
Ply separation	A parting of rubber compound between adjacent plies
Pneumatic tire	A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load
Radial ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at substantially 90 degrees to the centerline of the tread
Reinforced tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Section width	The linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands
Sidewall	That portion of a tire between the tread and bead
Sidewall separation	The parting of the rubber compound from the cord material in the sidewall
Snow tire	A tire that attains a traction index equal to or greater than 110, compared to the ASTM E-1136 Standard Reference Test Tire, when using the snow traction test as described in ASTM F-1805-00, Standard Test Method for Single Wheel Driving Traction in a Straight Line on Snow-and Ice-Covered Surfaces, and which is marked with an Alpine Symbol ( ) on at least one sidewall
Test rim	The rim on which a tire is fitted for testing, and may be any rim listed as appropriate for use with that tire

Tire related term	Meaning
Tread	That portion of a tire that comes into contact with the road
Tread rib	A tread section running circumferentially around a tire
Tread separation	Pulling away of the tread from the tire carcass
Treadwear indicators(TWI)	The projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread
Wheel-holding fixture	The fixture used to hold the wheel and tire assembly securely during testing

*: Table 1 — Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, Number of occupants	Vehicle normal load, Number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4	2	2 in front
5 through 10	3	2 in front, 1 in second seat
11 through 15	5	2 in front, 1 in second seat, 1 in third seat, 1 in fourth seat
16 through 20	7	2 in front, 2 in second seat, 2 in third seat, 1 in fourth seat

Customizable features

Your vehicle includes a variety of electronic features that can be personalized to your preferences. Programming these preferences requires specialized equipment and may be performed by an authorized Toyota dealership.

Some function settings are changed simultaneously with other functions being customized. Contact your Toyota dealer for further details.

Customizable features

Item	Function	Default setting	Customized setting
Wireless remote control (→P. 34)	Operation signal (Buzzer)	ON	OFF
Seat Belt Reminder Buzzer (→P. 487)	Vehicle speed linked seat belt reminder buzzer	ON	OFF

Items to initialize

The following items must be initialized for normal system operation in cases such as after the battery is reconnected, or maintenance is performed on the vehicle.

Item	When to initialize	Reference
Maintenance data	After the maintenance is performed	P. 403
Tire pressure warning system	• When rotating the tires on vehicles differing with front and rear tire inflation pressures. • When changing the tire inflation pressure by changing traveling speed or load weight, etc. • When changing the tire size.	P. 431

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	Tire pressure warning light	P. 488
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MAINT REQD	Maintenance required reminder light	P. 489

*1: Slip indicator comes on.
*2: The indicator flashes to indicate a malfunction.

GAS STATION INFORMATION

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Fuel type	Unleaded gasoline, Octane Rating 87 (Research Octane Number 91) or higher
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Engine oil capacity (Drain and refill -reference)	P. 534
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Abbreviation/Acronym list

ABBREVIATIONS	MEANING
2WD	Two Wheel Drive
4WD	Four Wheel Drive
ABS	Anti-Lock Brake System
ACC	Accessory
ALR	Automatic Locking Retractor
A-TRAC	Active Traction Control
AUTO LSD	Automatic Limited Slip Differential
CRS	Child Restraint System
DAC	Downhill assist control
ECU	Electronic Control Unit
EDR	Event Data Recorder
ELR	Emergency Locking Retractor
GAWR	Gross Axle Weight Rating
GCWR	Gross Combination Weight Rating
GVWR	Gross Vehicle Weight Rating
I/M	Emission inspection and maintenance
LATCH	Lower Anchors and Tethers for Children
LED	Light Emitting Diode
LT	Light truck
M + S	Mud + Snow
MMT	Methylcy clopentadienyl Manganese Tricarbonyl
MTBE	Methyl Tertiary Butyl Ether
OBD	On Board Diagnostics
RR DIFF LOCK	Rear differential lock
RSCA	Roll sensing of curtain shield airbag
SRS	Supplemental Restraint System
TIN	Tire Identification Number

ABBREVIATIONS	MEANING
TPMS	Tire Pressure Warning System
TRAC	Traction Control
TWI	Treadwear indicators
TWR	Trailer Weight Rating
VIN	Vehicle Identification Number
VSC	Vehicle Stability Control