

Owner's Manual

For your safety and comfort, read carefully and keep in the vehicle.

HILUX



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Index

Search by illustration

1	For safety and security	Make sure to read through them	
2	Instrument cluster	How to read the gauges and meters, the variety of warning lights and indicators, etc.	
3	Operation of each component	Opening and closing the doors and windows, adjustment before driving, etc.	
4	Driving	Operations and advices which are necessary for driving	
5	Interior features	Usage of the interior features, etc.	
6	Maintenance and care	Caring for your vehicle and maintenance procedures	
7	When trouble arises	What to do in case of malfunction or emergency	
8	Vehicle specifications	Vehicle specifications, etc.	
	0		

Search by symptom

Search alphabetically

_			
	your information8	3	Operation of
	ding this manual14		each component
	to search15		
Pict	orial index16	3-1.	Key information
			Keys 98
1	For safety and security	3-2.	Opening, closing and locking the doors
1-1.	For safe use		Wireless remote control 100
	Before driving32		Side doors 102
	For safety drive34		Tailgate 105
	Seat belts	3-3.	Adjusting the seats
	SRS airbags42		Front seats 107
	Safety information		Rear seats 111
	for children54		Head restraints114
	Child restraint systems	3-4.	Adjusting the steering wheel
	(for single-cab and extra-cab models)55		and mirrors
	Child restraint systems		Steering wheel
	(for double-cab models)59		Inside rear view mirror 118
	Installing child restraints65		Outside rear view mirrors119
	Exhaust gas precautions77	2.5	Opening and closing
1-2.	Theft deterrent system	3-3.	the windows
	Engine immobilizer		Power windows 121
	system78		Quarter windows
			(extra-cab models) 124
2	Instrument cluster		Back window
			(vehicles with sliding
2.	Instrument cluster		type) 125
	Warning lights		
	and indicators80		
7.	Gauges and meters86		
	Multi-information display90		

4 Driving

4-1.	Before driving
	Driving the vehicle128
	Cargo and luggage142
	Trailer towing143
4-2.	Driving procedures
	Engine (ignition) switch154
	Automatic transmission158
	Manual transmission163
	Turn signal lever166
	Parking brake167
	Horn168
4-3.	Operating the lights
	and wipers
	Headlight switch169
	Fog light switch172
	Windshield wipers and
	washer173
4-4.	Refueling
	Opening the fuel tank
	cap177
4-5.	Using the driving support
	systems Cruise control182
	Rear view monitor
	system187
	Four-wheel drive system194
. (Driving assist systems 198
4-6.	Driving tips
	Winter driving tips203
_	3 11 2

Interior features

5-1.	system and defogger	
	Manual air conditioning system210	
	Automatic air conditioning system	
	Power heater224	
	Rear window defogger switch	
5-2.	Using the multimedia system	ı
	Audio system types 226	
	Multimedia system 228	
5-3.	Basic Operations	
	Multimedia system	
X	Operations229	
	Steering wheel audio	
•	switches	
	USB/AUX Port232	
	Basic Audio Operations 233	
5-4.	Setup	
	Setup menu235	
	General settings236	
	Audio settings238	
	Display settings 239	

5-5.	Using the audio system	5-9.	Connecting Bluetooth®
	Selecting the audio source241		Preparations to use wireless
			communication 269
	List screen operation242		Registering a Bluetooth®
	Optimal use of the audio system244		audio player for
	•		the first time
5-6.	Using the radio		Registering a Bluetooth®
	Radio operation246		phone for the first time 273
5-7.	Playing an audio CD and		Registering a Bluetooth®
	MP3/WMA discs		device274
	CD player operation249		Connecting a Bluetooth®
5-8.	Using an external device		device277
	Listening to an iPod256		Displaying a Bluetooth®
	Listening to a USB		device details280
	memory device262		Detailed Bluetooth®
	Using the AUX port268		system settings282
		5-10	.Bluetooth [®] Audio
		N	Listening to Bluetooth®
		/	Audio284
		5-11	.Bluetooth [®] Phone
			Using a Bluetooth [®]
			Phone286
			Making a call289
			Receiving a call294
			Speaking
			on the telephone295
			Bluetooth [®] phone
			message function299
			Bluetooth [®] phone
			settings304
11		5-12	.Contact
			Contact/Call history

settings......306

Maintenance and care

6-1.	Maintenance and care	
	Cleaning and protecting the vehicle exterior	344
	Cleaning and protecting the vehicle interior	348
6-2.	Maintenance	
	Maintenance requirements	352
6-3.	Do-it-yourself maintenan	се
	Do-it-yourself service	
	precautions	355
	Hood	359
	Engine compartment	361
	Tires	375
X	Tire inflation pressure	378
, ,	Wheels	380
•	Air conditioning filter	382
	Wireless remote	
	control battery	384
	Checking and	
	replacing fuses	387
	Light bulbs	398

When trouble arises

7-1.	Essential information	
	Emergency flashers	414
	If your vehicle has to	
	be stopped in an	
	emergency	415
7-2.	Steps to take in an emer	
	If your vehicle needs	
	to be towed	417
	If you think something is	
	wrong	422
	Fuel pump shut off	
	system	423
	If a warning light turns on	
	or a warning buzzer	
	sounds	424
	If you have a flat tire	429
	If the engine will not	
	start	445
	If the shift lever cannot	
	be shifted from P	446
	If the vehicle battery is	•
	discharged	447
	If your vehicle overheats	452
	If you run out of fuel	
	and the engine stalls	
	(diesel engine only)	456
	If the vehicle becomes	
	stuck	457

8 Vehicle specifications

8-1.	Specifications
	Maintenance data
	(fuel, oil level, etc.) 460
	Fuel information47
8-2.	Initialization

Index

What to do if	
(Troubleshooting)	482
Alphabetical index	486

For vehicles with a navigation system, refer to the "Navigation System Owner's Manual" for information regarding the navigation system.

NOT FOR REPROBUCITOR

For your information

Main Owner's Manual

Please note that this manual applies to all models 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.

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. Using these spare parts and accessories which are not genuine Toyota products may adversely affect the safety of your vehicle, even though these parts may be approved by certain authorities in your country. Toyota Motor Corporation therefore cannot accept any liability or guarantee spare parts and accessories which are not genuine Toyota products, nor for replacement or installation involving such parts.

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 an RF-transmitter system

The installation of an RF-transmitter 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 an RF-transmitter system.

Further information regarding frequency bands, power levels, antenna positions and installation provisions for the installation of RF-transmitters, is available on request at your Toyota dealer.

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 use by Toyota in a lawsuit
- For research purposes where the data is not tied to a specific vehicle or vehicle owner

Event data recorder

Your vehicle has computers that monitor and control certain aspects of your vehicle. These computers assist in driving and maintaining optimal vehicle performance.

Besides storing data useful for troubleshooting, there is an event data recorder (EDR) that records data in a crash or near crash event.

The SRS airbag sensor assembly contains the EDR. In a crash or near crash event, this device may record the following information:

- · SRS airbag deployment data
- SRS airbag system diagnostic data

The information above is intended to be used for the purpose of improving vehicle safety performance. Unlike general data recorders, the EDR does not record sound data such as conversation between passengers.

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 leasing company for a leased vehicle) is obtained
- In response to an official request by the police, a court of law or a government agency
- · Necessary, for use as a defense for Toyota in a lawsuit

However, if necessary, Toyota may:

- Use the data for research on Toyota vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and that only when deemed necessary
- Disclose summarized data cleared of vehicle identification information to a non-Toyota organization for research purposes

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.

A 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 cigarette lighter, 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.

NOT FOR REPROBUCTION AND THE PROPERTY OF THE P

Reading this manual



A CAUTION:

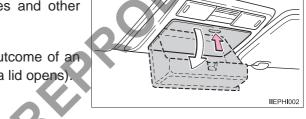
Explains something that, if not obeyed, could cause death or serious injury to people.

NOTICE:

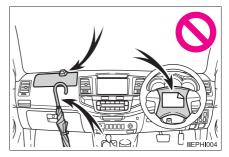
Explains something that, if not obeyed, could cause damage to or a malfunction in the vehicle or its equipment.

1 2 3 ··· Indicates operating or working procedures. Follow the steps in numerical order.

- Indicates the action (pushing, turning, etc.) used to operate switches and other devices.
- Indicates the outcome of an operation (e.g. a lid opens).

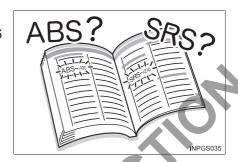


- Indicates the component or position being explained.
- Means "Do not", "Do not do this", or "Do not let this happen".



How to search

- Searching by name
 - Alphabetical index P. 486



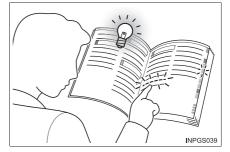
- Searching by installation position
 - Pictorial index..... P. 16



- Searching by symptom or sound
 - What to do if... (Troubleshooting) P. 482



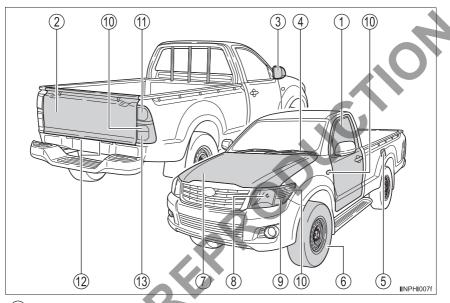
- Searching by title
 - Table of contents P. 2



Pictorial index

Exterior

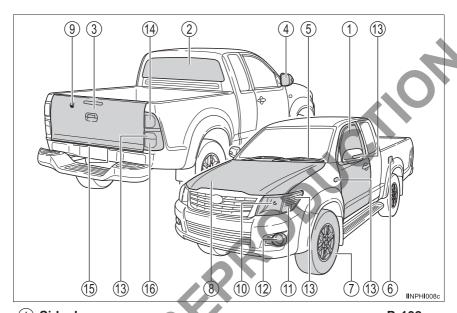
▶ Single-cab models



(1) Side doors	P. 102
Locking/unlocking	
Opening/closing the door glasses	
Warning lights	P. 427
2 Tailgate*	P. 105
3 Outside rear view mirrors	P. 119
Adjusting the mirror angle	P. 119
Folding the mirrors	P. 120

4 Windshield wipers	P. 173
Precautions against winter season	P. 203
(5) Fuel filler door	P. 177
Refueling method	P. 177
Fuel type/fuel tank capacity	P. 464
6 Tires	P. 375
Tire size/inflation pressure	
Winter tires/tire chain	
Checking/rotation.	
Coping with flat tires	
(7) Hood	
Opening	
Engine oil	
	1.402
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476)	
8 Headlights	P. 169
Front position lights	
(1) Stop/tail lights	P. 169
12 License plate lights	P. 169
(13) Back-up lights	-0 400
Shifting the shift lever to R P. 15	აგ, 163

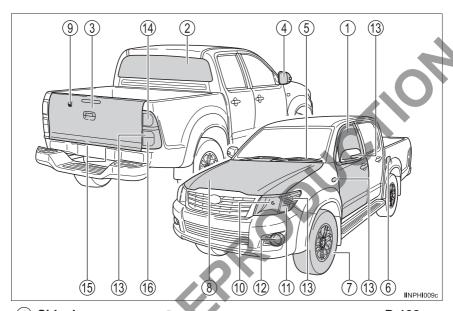
► Extra-cab models



(1) Side doors
Locking/unlocking
Opening/closing the door glasses P. 121
Warning lights P. 427
② Back window (sliding type) P. 125
③ Tailgate* P. 105
4 Outside rear view mirrors P. 119
Adjusting the mirror angle P. 119
Folding the mirrors

(5) Windshield wipers	
Precautions against winter season	P. 203
6 Fuel filler door	P. 177
Refueling method	P. 177
Fuel type/fuel tank capacity	P. 464
(7) Tires	P. 375
Tire size/inflation pressure	P. 475
Winter tires/tire chain	P. 203
Checking/rotation	
Coping with flat tires	P. 429
8 Hood	P. 359
Opening	
Engine oil	P. 465
Coping with overheat	P. 452
	D 107
o camera	P. 107
Light bulbs of the exterior lights for driving	F. 107
	F. 10/
Light bulbs of the exterior lights for driving	7
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476)	P. 169
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) (1) Headlights	P. 169
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) ① Headlights ① Front position lights	
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) 10 Headlights 11 Front position lights 12 Fog lights* 13 Turn signal lights*	P. 169 P. 169 P. 172 P. 166
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) 10 Headlights 11 Front position lights 12 Fog lights* 13 Turn signal lights* 14 Stop/tail lights	P. 169 P. 169 P. 172 P. 166 P. 169
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) 10 Headlights 11 Front position lights 12 Fog lights* 13 Turn signal lights*	P. 169 P. 169 P. 172 P. 166 P. 169
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) ① Headlights ①1 Front position lights	P. 169 P. 169 P. 172 P. 166 P. 169 P. 169
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts: P. 476) ① Headlights ①1 Front position lights	P. 169 P. 169 P. 172 P. 166 P. 169 P. 169

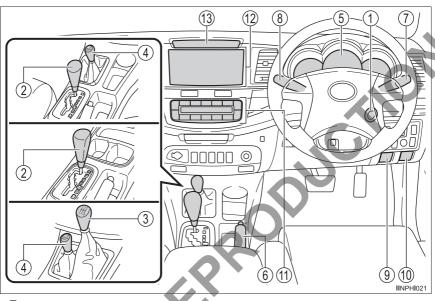
▶ Double-cab models



(1) Side doors	
Locking/unlocking	
Opening/closing the door glasses P. 121	
Warning lights P. 427	
② Back window (sliding type) P. 125	
③ Tailgate* P. 105	
4) Outside rear view mirrors P. 119	
Adjusting the mirror angle P. 119	
Folding the mirrors	

(5) Windshield wipers	
6 Fuel filler door	P. 177 P. 177
7 Tires Tire size/inflation pressure. Winter tires/tire chain. Checking/rotation. Coping with flat tires	P. 475 P. 203 P. 375
8 Hood	P. 359 P. 465 P. 452
Light bulbs of the exterior lights for driving (Replacing method: P. 398, Watts; P. 476)	
 (1) Headlights (1) Front position lights (2) Fog lights* (3) Turn signal lights* (4) Stop/tail lights (5) License plate lights (6) Back-up lights 	P. 169 P. 172 P. 166 P. 169 P. 169
Shifting the shift lever to R P. 158	3, 163

■Instrument panel



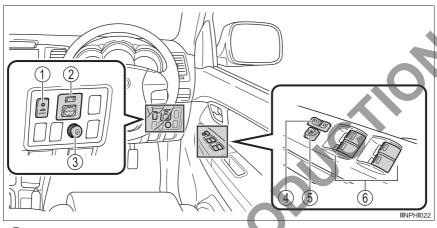
1	Engine switch Starting the engine/changing the modes Emergency stop of the engine. When the engine will not start	P. 154 P. 415
2	Shift lever (Automatic transmission). Changing the shift position Precautions against towing. When the shift lever does not move.	P. 158 P. 417
	Shift lever (Manual transmission)	P. 163
4	Front drive control lever*1	

5	Meters. Reading the meters. Adjusting the instrument panel light*1 Warning lights/indicator lights When the warning lights come on.	. P. 86 . P. 88 . P. 80
6	Parking brake lever Applying/releasing Precautions against winter season Warning light	P. 167 P. 204 P. 424
7	Headlight switch	P. 169 P. 169 P. 172
8	Windshield wiper and washer switch	P. 173
9	Hood lock release lever	P. 359
10	Fuel filler door opener*1	P. 179
11)	Manual air conditioning system*1	P. 210 P. 217
12)	Multimedia system* ^{1, 2}	P. 232
(13)	Clock Multi-information display*1	P. 333

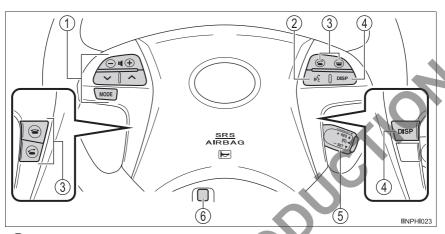
^{*1:} If equipped

^{*2:} Refer to "Navigation System Owner's Manual".

Switches



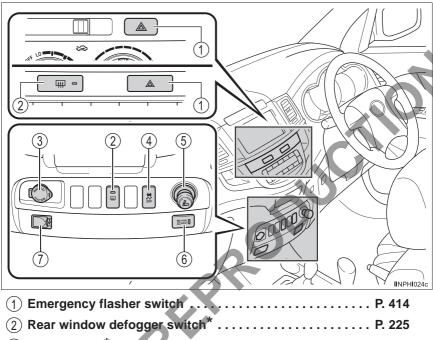
	Security indicator	
2	Outside rear view mirror switches*1	P. 119
3	Instrument cluster light control knob*1	. P. 88
4	Door lock switch*1	P. 103
(5)	Window lock switch*1	P. 122
6)	Power window switches*1	P. 121



- 1) Audio remote control switches P. 231
- (2) Talk switch*1, 2
- (3) Telephone switches*1, 2
- 5 Cruise control switch*1 P. 182
- 6 Tilt steering lock release lever P. 117

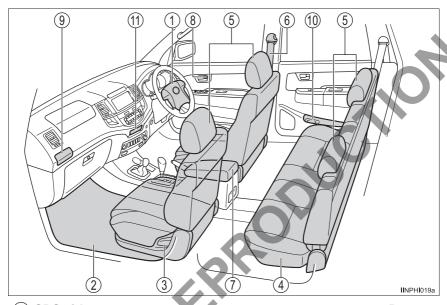
^{*1:} If equipped

^{*2:} Refer to "Navigation System Owner's Manual".



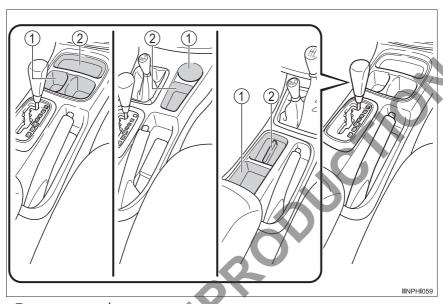
\sim	Emergency flasher switch	
\sim	Rear window defogger switch* P. 22	
3	Power outlet*P. 33	36
4	VSC OFF switch*P. 19	99
	Cigarette lighter P. 33	
	Power heater switch* P. 22	
(7)	AUX port/USB port* P. 23	32

Interior

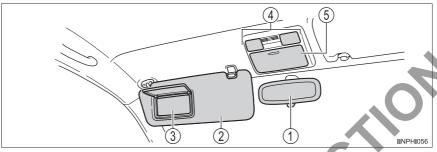


	SRS airbags P. 4	
_	Floor mats P. 3	
	Front seats P. 10	
4	Rear seats* P. 11	1
\sim	Head restraints P. 11	
\sim	Seat belts P. 3	
7	Console box*	8
	Inside lock buttons P. 10	
9	Cup holders	9
10	Bottle holders P. 33	0
11	Ashtray	4

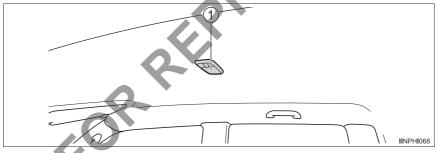
^{*:} If equipped



- (2) Auxiliary boxes* P. 331



1 Inside rear view mirror	P. 118
② Sun visors	P. 332
③ Vanity mirror	P. 332
4 Personal lights*	P. 326
(5) Auxiliary boxes*	P. 331



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For safety and security

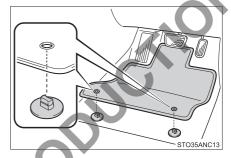
1-1.	For safe use
	Before driving32
	For safety drive34
	Seat belts36
	SRS airbags42
	Safety information for children54
	Child restraint systems (for single-cab and
	extra-cab models)55
	Child restraint systems (for double-cab models)59
	Installing child restraints65
	Exhaust gas precautions77
1-2.	Theft deterrent system
	Engine immobilizer
•	system78

Before driving

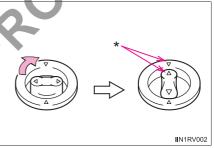
Floor mat

Use only floor mats designed specifically for vehicles of the same model and model year as your vehicle. Fix them securely in place onto the carpet.

1 Insert the retaining hooks (clips) into the floor mat eyelets.



- 2 Turn the upper knob of each retaining hook (clip) to secure the floor mats in place.
 - *: Always align the \triangle marks.



The shape of the retaining hooks (clips) may differ from that shown in the illustration.

A CAUTION

Observe the following precautions.

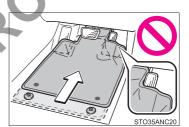
Failure to do so may cause the driver's floor mat to slip, possibly interfering with the pedals while driving. An unexpectedly high speed may result or it may become difficult to stop the vehicle, leading to an accident, or leading to death or a serious injury.

■ When installing the driver's floor mat

- Do not use floor mats designed for other models or different model year vehicles, even if they are Toyota Genuine floor mats.
- Only use floor mats designed for the driver's seat.
- Always install the floor mat securely using the retaining hooks (clips) provided.
- Do not use two or more floor mats on top of each other.
- Do not place the floor mat bottom-side up or upside-down.

■ Before driving

- Check that the floor mat is securely fixed in the correct place with all the provided retaining hooks (clips). Be especially careful to perform this check after cleaning the floor.
- With the engine stopped and the shift lever in P (automatic transmission) or N (manual transmission), fully depress each pedal to the floor to make sure it does not interfere with the floor mat.



For safety drive

For safe driving, adjust the seat and mirror to an appropriate position before driving.

Correct driving posture

- Adjust the angle of the seatback so that you are sitting straight up and so that you do not have to lean forward to steer. (→P. 107)
- ② Adjust the seat so that you can depress the pedals fully and so that your arms bend slightly at the elbow when gripping the steering wheel. (→P. 107)
- ③ Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P. 114)
- (4) Wear the seat belt correctly.(→P. 36)



Correct use of the seat belts

Make sure that all occupants are wearing their seat belts before driving the vehicle. $(\rightarrow P. 36)$

Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belt. (>P. 55, 59)

Adjusting the mirrors

Make sure that you can see backward clearly by adjusting the inside and outside rear view mirrors properly. (→P. 118, 119)



A CAUTION

Observe the following precautions.

Failure to do so may result in death or serious injury.

- 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.
- 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 and the adjustment mechanism may also be damaged.
- When driving over long distances, take regular breaks before you start to feel tired.

Also, if you feel tired or sleepy while driving, do not force yourself to continue driving and take a break immediately.

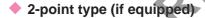
Seat belts

Make sure that all occupants are wearing their seat belts before driving the vehicle.

Correct use of the seat belts

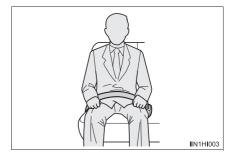
3-point type

- Extend the shoulder belt so that it comes fully over the shoulder, but does not come into contact with the neck or slide off the shoulder.
- Position the lap belt as low as possible over the hips.
- Adjust the position of the seatback. Sit up straight and well back in the seat.
- Do not twist the seat belt.



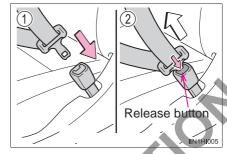
- Position the lap belt as low as possible over the hips.
- Adjust the position of the seatback. Sit up straight and well back in the seat.
- Do not twist the seat belt.





Fastening and releasing the seat belt

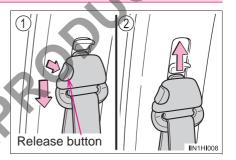
- 1 To fasten the seat belt, push the plate into the buckle until a click sound is heard.
- 2 To release the seat belt, press the release button.



Adjusting the seat belt shoulder anchor height (if equipped for front seats)

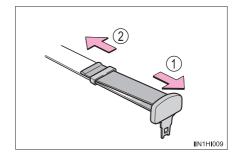
- 1 Push the seat belt shoulder anchor down while pressing the release button.
- 2 Push the seat belt shoulder anchor up.

Move the height adjuster up and down as needed until you hear a click.



Adjusting the length of the belt (2-point type seat belt) (if equipped)

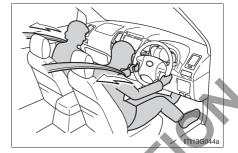
- 1 Lengthen
- (2) Shorten



Seat belt pretensioners (front seats)

The pretensioners help the seat belts to quickly restrain the occupants by retracting the seat belts when the vehicle is subjected to certain types of severe frontal collision.

The pretensioners do not activate in the event of a minor frontal impact, a side impact, a rear impact or a vehicle rollover.



■ Emergency locking retractor (ELR) (3-point type seat belt)

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

■ Automatic locking retractor (ALR) (if equipped)

When a rear passenger's shoulder belt is completely extended and then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold the child restraint system (CRS) firmly. To free the belt again, fully retract the belt and then pull the belt out once more. $(\rightarrow P. 65)$

■ Child seat belt usage

The seat belts of your vehicle were principally designed for persons of adult size.

- Use a child restraint system appropriate for the child, until the child becomes large enough to properly wear the vehicle's seat belt.
 (→P. 55, 59)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions on P. 36 regarding seat belt usage.

Replacing the belt after the pretensioner has been activated

If the vehicle is involved in multiple collisions, the pretensioner will activate for the first collision, but will not activate for the second or subsequent collisions.

■ Seat belt regulations

If seat belt regulations exist in the country where you reside, please contact your Toyota dealer for seat belt replacement or installation.

Observe the following precautions to reduce the risk of injury in the event of sudden braking, sudden swerving or an accident.

Failure to do so may cause death or serious injury.

Wearing a seat belt

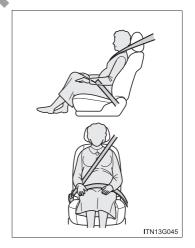
- Ensure that all passengers wear a seat belt.
- Always wear a seat belt properly.
- Each seat belt should be used by one person only. Do not use a seat belt for more than one person at once, including children.
- Toyota recommends that children be seated in the rear seat and always use a seat belt and/or an appropriate child restraint system.
- To achieve a proper seating position, do not recline the seat more than necessary. The seat belt is most effective when the occupants are sitting up straight and well back in the seats.
- Do not wear the shoulder belt under your arm.
- Always wear your seat belt low and snug across your hips.

Pregnant women

Obtain medical advice and wear the seat belt in the proper way. $(\rightarrow P. 36)$

Women who are pregnant should position the lap belt as low as possible over the hips in the same manner as other occupants, extending the shoulder belt completely over the shoulder and avoiding belt contact with the rounding of the abdominal area.

If the seat belt is not worn properly, not only the pregnant woman, but also the fetus could suffer death or serious injury as a result of sudden braking or a collision.



People suffering illness

Obtain medical advice and wear the seat belt in the proper way. $(\rightarrow P. 36)$

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

Seat belt pretensioners

If the pretensioner has activated, the SRS warning light will come on. In that case, the seat belt cannot be used again and must be replaced at your Toyota dealer.

Adjustable shoulder anchor (if equipped)

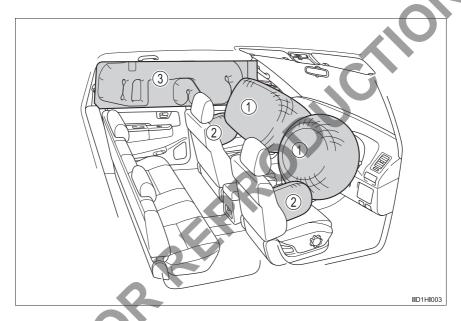
Always make sure the shoulder belt is positioned across the center of your shoulder. The belt should be kept away from your neck, but not falling off your shoulder. Failure to do so could reduce the amount of protection in an accident and cause death or serious injuries in the event of a sudden stop, sudden swerve or accident. $(\rightarrow P. 37)$

Seat belt damage and wear

- Do not damage the seat belts by allowing the belt, plate, or buckle to be jammed in the door.
- Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Do not use a damaged seat belt until it is replaced. Damaged seat belts cannot protect an occupant from death or serious injury.
- Ensure that the belt and plate are locked and the belt is not twisted. If the seat belt does not function correctly, immediately contact your Toyota dealer.
- Replace the seat assembly, including the belts, if your vehicle has been involved in a serious accident, even if there is no obvious damage.
- Do not attempt to install, remove, modify, disassemble or dispose of the seat belts. Have any necessary repairs carried out by your Toyota dealer. Inappropriate handling may lead to incorrect operation.

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.



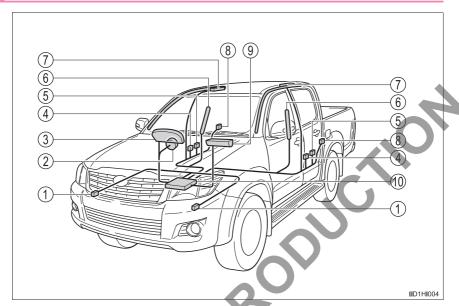
SRS front airbags

SRS driver airbag/front passenger airbag
 Can help protect the head and chest of the driver and front passenger from impact with interior components

SRS side and curtain shield airbags

- SRS side airbags (if equipped)Can help protect the torso of the front seat occupants
- ③ SRS curtain shield airbags (if equipped)
 Can help protect primarily the head of occupants in the outer seats

SRS airbag system components



- 1) Front impact sensors
- 2 Driver airbag
- 3 SRS warning light
- 4 Side impact sensors (front) (if equipped)
- Seat belt pretensioners and force limiters

- 6 Side airbags (if equipped)
- (7) Curtain shield airbags (if equipped)
- (8) Side impact sensors (rear) (if equipped)
- 9 Front passenger airbag
- 10 Airbag sensor assembly

The main SRS airbag system components are shown above. The SRS airbag system is controlled by the airbag sensor assembly. 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 front outside passenger, and they are not designed to protect an occupant in the front center seating position.

SRS airbag precautions

Observe the following precautions regarding the SRS 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.

Since the risk zone for the driver's airbag is the first 50 - 75 mm (2 - 3 in.) of inflation, placing yourself 250 mm (10 in.) 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 sit less than 250 mm (10 in.) away now, you can change your driving position in several wavs:

- · 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 250 mm (10 in.) 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, nonslippery 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.

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



SRS airbag precautions

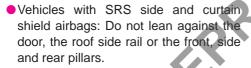
- The SRS front passenger airbag also deploys with considerable force, and can cause death or serious injury especially if the front passenger is very close to the airbag. The front passenger seat should be as far from the airbag as possible with the seatback adjusted, so the front passenger sits upright.
- 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 (if equipped) of the vehicle and properly restrained. The rear seats (if equipped) are safer for infants and children than the front passenger seat. (\rightarrow P. 55)

■ 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 allow the front seat occupants to hold items on their knees.







Vehicles with SRS side and curtain shield airbags: Do not allow anyone to kneel on the passenger seat toward the door or put their head or hands outside the vehicle.



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 the SRS driver and front passenger airbags deploy.

Vehicles with SRS side and curtain shield airbags: Do not attach anything to areas such as a door, windshield glass, side door glass, front or rear pillar, roof side rail and assist grip.





- Vehicles with SRS side and curtain shield airbags: Do not hang coat hangers or other hard objects on the coat hooks. All of these items could become projectiles and may cause death or serious injury, should the SRS curtain shield airbags deploy.
- Vehicles with SRS side and curtain shield airbags: Do not use seat accessories which cover the parts where the SRS side airbags inflate as they may interfere with inflation of the SRS airbags. Such accessories may prevent the side airbags from activating correctly, disable the system or cause the side airbags to inflate accidentally, resulting in death or serious injury.



SRS airbag precautions

- Do not strike or apply significant levels of force to the area of the SRS airbag components.
 - 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 airbags have 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.

■ 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 or winches
- Modifications to the vehicle's suspension system
- Installation of electronic devices such as mobile two-way radios (RF-transmitter) and CD players

■ 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.
- Vehicles without SRS curtain shield airbags: Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the seats may be hot for several minutes. The airbag itself may also be hot.
- Vehicles with SRS curtain shield airbags: Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the seats, parts of the front and rear pillars, and roof side rails, may be hot for several minutes. The airbag itself may also be hot.
- The windshield may crack.

■ SRS airbag deployment conditions (SRS front airbags)

• The SRS front airbags will deploy in the event of an impact that exceeds the set threshold level (the level of force corresponding to an approximately 20 -30 km/h [12 - 18 mph] 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 and 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.

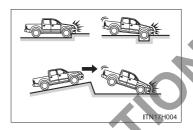
SRS airbag deployment conditions (SRS side airbags and curtain shield airbags)

The SRS side airbags and 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 1500 kg [3300 lb.] vehicle colliding with the vehicle cabin from a direction perpendicular to the vehicle orientation at an approximate speed of 20 - 30 km/h [12 - 18 mph]).

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

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.

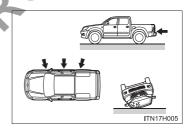
- Hitting a curb, edge of pavement or hard surface
- Falling into or jumping over a deep hole
- Landing hard or falling



■ Types of collisions that may not deploy the SRS airbags (SRS 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.

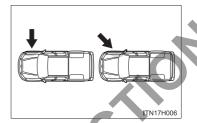
- Collision from the side
- Collision from the rear
- Vehicle rollover



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

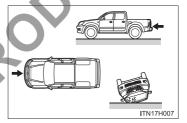
The SRS side airbag and curtain shield airbag system may not activate if the vehicle is subjected to a collision from the side at certain angles, or a collision to the side of the vehicle body other than the passenger compartment.

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



The SRS side airbags and curtain shield 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

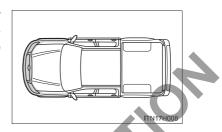


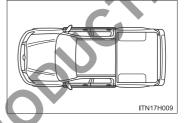
■When to contact your Toyota dealer

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

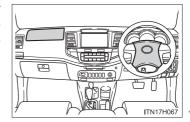
- Any of the SRS airbags have been inflated.
- The front of the vehicle is damaged or deformed, or was involved in an accident that was not severe enough to cause the SRS airbags to inflate.

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.

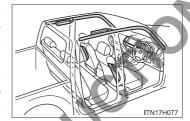




 The pad section of the steering wheel or dashboard near the front passenger airbag is scratched, cracked, or otherwise damaged.



- Vehicles with SRS side airbags: The surface of the seats with the side airbag is scratched, cracked, or otherwise damaged.
- Vehicles with SRS curtain shield airbags: 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.



Safety information for children

Observe the following precautions when children are in the vehicle.

Use a child restraint system appropriate for the child, until the child becomes large enough to properly wear the vehicle's seat belt.

- It is recommended that children sit in the rear seats (if equipped) to avoid accidental contact with the shift lever, wiper switch etc.
- Use the rear door child-protector lock (double-cab models only) or the window lock switch (vehicles with power windows) to avoid children opening the door while driving or operating the power window accidentally.
- Do not let small children operate equipment which may catch or pinch body parts, such as the power window (if equipped), hood, tailgate (if equipped), seats etc.

A CAUTION

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.

Child restraint systems (for single-cab and extra-cab models)

Toyota strongly urges 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 on the front passenger seat.

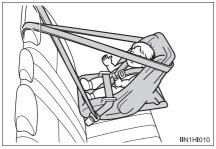
- Choose a child restraint system that suits your vehicle and is appropriate to the age and size of the child.
- For installation details, follow the instructions provided with the child restraint system.
 - General installation instructions are provided in this manual. $(\rightarrow P. 65)$
- If child restraint system regulations exist in the country where you reside, please contact your Toyota dealer for the child restraint system installation.

Types of child restraints

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

▶ Baby seat (infant seat)







▶ Junior 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 the child is too large for a child restraint system, sit the child on a rear seat (if equipped) and use the vehicle's seat belt. (→P. 36)



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.
- 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.
 - 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.
- A forward-facing child restraint system may be installed on the front passenger seat only when it is unavoidable. Adjust the seatback as upright as possible and always move the seat as far back as possible because the front passenger airbag could inflate with considerable speed and force. Otherwise, the child may be killed or seriously injured.
- Vehicles with SRS side and curtain shield airbags: 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 rails from which the SRS side airbags or SRS curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the SRS side airbags and curtain shield airbags inflate, and the impact 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 braking, sudden swerving 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 child restraint system 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 braking, sudden swerving or an accident.

Child restraint systems (for double-cab models)

Toyota strongly urges 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 on 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. $(\rightarrow P. 65)$
- If child restraint system regulations exist in the country where you reside, please contact any authorized Toyota dealer or repairer, or another duly qualified and equipped professional for the child restraint system installation.
- Toyota recommends that you use a child restraint system which conforms to the regulation ECE No.44.

Types of child restraints

Child restraint systems are classified into the following 5 groups according to the regulation ECE No.44:

Group 0: Up to 10 kg (22 lb.) (0 - 9 months) Group 0+: Up to 13 kg (28 lb.) (0 - 2 years)

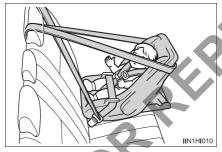
Group I: 9 to 18 kg (20 to 39 lb.) (9 months - 4 years) Group II: 15 to 25 kg (34 to 55 lb.) (4 years - 7 years) Group III: 22 to 36 kg (49 to 79 lb.) (6 years - 12 years)

In this owner's manual, the following 3 types of popular child restraint systems that can be secured with the seat belts are explained:

Baby seat (infant seat) Equal to Group 0 and 0+ of ECE

No.44

► Child seat (convertible seat) Equal to Group 0+ and I of ECE No.44





▶ Junior seat (booster seat) Equal to Group II and III of ECE

No.44



Child restraint system suitability for various seating positions

Information provided in the table shows your child restraint system suitability for various seating positions.

Seating position	Front passenger seat	Rear seat	
Mass groups		Outboard	Center
0 Up to 10 kg (22 lb.) (0 - 9 months)	X Never put	U	V
0+ Up to 13 kg (28 lb.) (0 - 2 years)	X Never put	U	C
I 9 to 18 kg (20 to 39 lb.) (9 months - 4 years)	Rear- facing — X Never put	0,*	U*
	Forward- facing — X		
II, III 15 to 36 kg (34 to 79 lb.) (4 - 12 years)	Q.X	U*	U*

Key of letters inserted in the above table:

- U: Suitable for "universal" category child restraint systems approved for use in this mass group.
- UF: Suitable for forward-facing "universal" category child restraint systems approved for use in this mass group.
- X: Not suitable seat position for children in this mass group.
- If the head restraint interferes with your child restraint system, and the head restraint can be removed, remove the head restraint.

Other child restraint system which is different from the system mentioned in the table can be used, but the suitability of the systems must be carefully checked with the child restraint system manufacturer concerned and the seller of those seats.

■ 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 the child is too large for a child restraint system, sit the child on a rear seat (if equipped) and use the vehicle's seat belt. (\rightarrow P. 36)



A CAUTION

Using a child restraint system

The use of a child restraint system not suitable for the vehicle may not properly secure the infant or child. It may result in death or serious injury (in the event of sudden braking or an accident).

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.
- 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.
 - 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.
- Vehicles with SRS side and curtain shield airbags: 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 rails from which the SRS side airbags or SRS curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the SRS side airbags and curtain shield airbags inflate, and the impact 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 braking, sudden swerving 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.

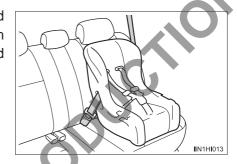
■ When the child restraint system is not in use

- Keep the child restraint system properly secured on the seat even if it is not in use. Do not store the child restraint system 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 braking, sudden swerving or an accident.

Installing child restraints

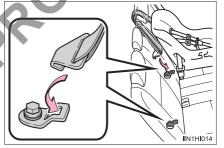
Follow the child restraint system manufacturer's instructions. Firmly secure child restraints to the seats using a seat belt. Attach the upper anchorage strap when installing a child restraint.

Seat belts equipped with a child restraint locking mechanism (ALR/ELR belts on the outboard rear seats) (→P. 39)



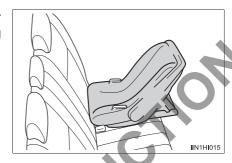
Child restraint anchor fitting

An anchor fitting is provided for outboard rear seats of double-cab models.

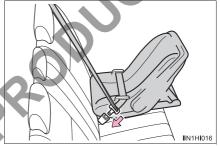


Installing child restraints using a seat belt

- Rear-facing Baby seat (infant seat)/child seat (convertible seat)
 - 1 Place the child restraint system on the rear seat facing the rear of the vehicle.



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



3 Fully extend the shoulder belt and allow it to retract to put it in lock mode, in lock mode, the belt cannot be extended.



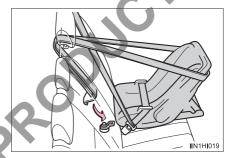
4 While pushing the child restraint system down into the rear seat, allow the shoulder belt to retract until the child restraint system is securely in place.

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.

5 Latch the attaching clip of the upper anchorage strap onto the anchor fitting. (→P. 71) Make sure the seat belt is tightly secured, and that there is no

slack in the belt.



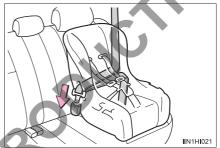


■ Forward-facing — Child seat (convertible seat)

1 Place the child restraint system on the seat facing the front of the vehicle.



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



3 Fully extend the shoulder belt and allow it to retract to put it in lock mode. In lock mode, the belt cannot be extended.

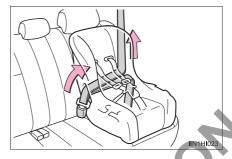


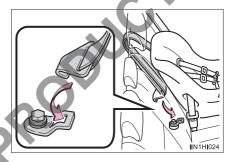
4 While pushing the child restraint system into the rear seat, allow the shoulder belt to retract until the child restraint system is securely in place.

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.

5 Latch the attaching clip of the upper anchorage strap onto the anchor fitting. (→P. 71)

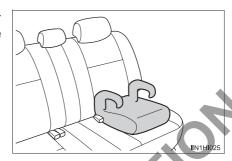
Make sure the seat belt is tightly secured, and that there is no slack in the belt.





■ Junior seat (booster seat)

1 Place the child restraint system on the seat facing the front of the vehicle.



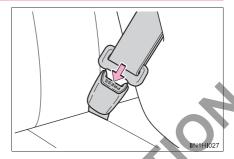
2 Sit the child in the child restraint system. Fit the seat belt to the child restraint system according to the manufacturer's instructions and insert the plate into the buckle. Make sure that the belt is not twisted.

Check that the shoulder belt is correctly positioned over the child's shoulder and that the lap belt is as low as possible. $(\rightarrow P. 36)$



Removing a child restraint installed with a seat belt

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



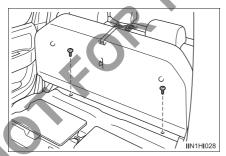
Child restraint systems with an upper anchorage strap (double-cab models only)

You can purchase a child restraint anchor fitting package from your Toyota dealer.

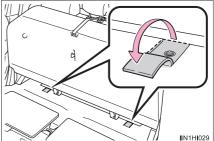
■ Installing a child restraint anchor fitting

- 1 Raise the bottom cushion. (→P. 112)
- 2 Remove the plug or turn the parts of the floor carpet over as shown in the illustration immediately behind where the child restraint will be positioned on the rear seat.

▶ Type A



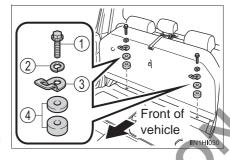
▶ Type B



3 Install a bolt through the lock washer and anchor fitting, and tighten the bolt securely with the anchor fitting facing the front of the vehicle as shown.

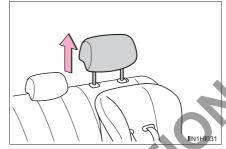
Use a 5 mm (0.2 in.) or 10 mm (0.4 in.) spacer or both ones if necessary.

- ① Bolt (5/16"-18 UNC \times 30 mm [1.2 in.])
- 2 Lock washer (1.6 mm [0.06 in.] thickness)
- 3 Anchor fitting (this conforms to ADR34/01.)
- 4 Spacers (5 mm [0.2 in.] and 10 mm [0.4 in.])



■ Installation with an upper anchorage strap

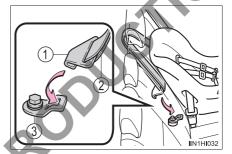
1 Secure the child restraint system using the seat belt, and move the head restraint in place at the upmost position. $(\rightarrow P. 114)$

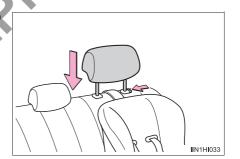


2 Latch the attaching clip and tighten the upper anchorage strap.

> Make sure the upper anchorage strap is securely latched.

- (1) Attaching clip
- (2) Upper anchorage strap
- (3) Anchor fitting
- 3 Adjust the head restraint to the downmost position.





■ When installing a child restraint system in the front passenger's seat or center rear seat

You need a locking clip to install the child restraint system. Follow the instructions provided by the manufacturer of the system. If your child restraint system does not provide a locking clip, you can purchase the following item from your Toyota dealer.

Locking clip for child restraint system (Part No. 73119-22010)

■ When installing a junior (booster) seat on the outboard rear seat

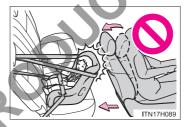
To prevent the belt from going into ALR lock mode, do not fully extend the shoulder belt. ALR mode causes the belt to tighten only. This could cause injury or discomfort to the child. (\rightarrow P. 39)

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 a sudden braking, sudden swerving or an accident.

- 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 left-hand rear seat.
- Double-cab models: Adjust the front passenger seat so that it does not interfere with the child restraint system.
- Single-cab and extra-cab models: Only put a forward-facing child restraint system on the front seat when unavoidable. When installing a forward-facing child restraint on the front passenger seat, move the seat as far back as possible (vehicles with seat position adjustment lever). Failure to do so may result in death or serious injury if the airbags deploy (inflate).





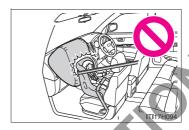


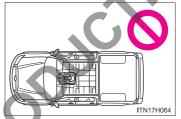
■When installing a child restraint system

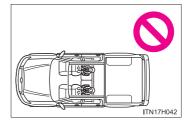
- Extreme Hazard! Do not use a rearward. facing child restraint on a seat protected by an airbag in front of it! This is because the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child.
- Vehicles with front bench seat: Do not install a child restraint system in the center position. This seat position is not designed to hold a child restraint system.

If used in the center position, depending on its type, the child restraint system may interfere with the proper usage of the driver's and front passenger's seat belts. It may also hamper your driving.

Extra-cab models: Do not install a child restraint system on the rear seat. These seats are not designed to hold a child restraint system.







When installing a child restraint system

- If child restraint system regulations exist in the country where you reside. please contact your Toyota dealer for the child restraint system installation.
- When a junior (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 a sudden braking, sudden swerving or an accident.
- Ensure that the belt and plate are securely locked and the seat belt is not twisted.
- Shake the child restraint system left and right, and forward and backward to ensure that it has been securely installed.
- After securing a child restraint system, never adjust the seat.
- Follow all installation instructions provided by the child restraint system manufacturer.

Using child restraint anchorages

WARNING: child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seatbelts, harnesses, or for attaching other items or equipment to the vehicle.

Exhaust gas precautions

Harmful substance to the human body is included in exhaust gases if inhale.



A CAUTION

Exhaust gases include harmful carbon monoxide (CO), which is colorless and odorless. Observe the following precautions.

Failure to do so may cause exhaust gases enter the vehicle and may lead to an accident caused by light-headedness, or may lead to death or a serious health hazard.

Important points while driving

If you smell exhaust gases in the vehicle, open the windows and have the vehicle inspected at your Toyota dealer as soon as possible.

When parking

- If the vehicle is in a poorly ventilated area or a closed area, such as a garage, stop the engine.
- Do not leave the vehicle with the engine running for a long time. If such a situation cannot be avoided, park the vehicle in an open space and ensure that exhaust fumes do not enter the vehicle interior.
- Do not leave the engine running in an area with snow build-up, or where it is snowing. If snowbanks build up around the vehicle while the engine is running, exhaust gases may collect and enter the vehicle.

Exhaust pipe

The exhaust system needs to be checked periodically. If there is a hole or crack caused by corrosion, damage to a joint or abnormal exhaust noise, be sure to have the vehicle inspected and repaired by your Toyota dealer.

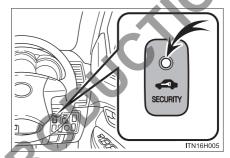
Engine immobilizer system

The vehicle's keys have built-in transponder chips that prevent the engine from starting if a 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 grip portion of 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



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.

2. Instrument cluster

Warning lights	
and indicators	80
Gauges and meters	86
Multi-information display	90

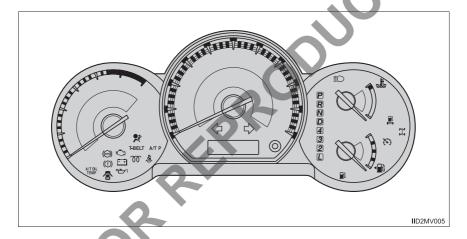
Warning lights and indicators

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

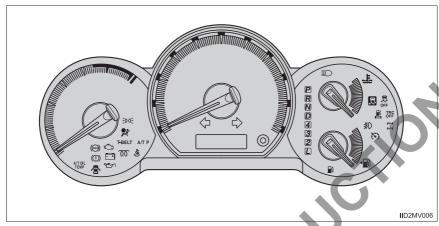
For the purpose of explanation, the following illustrations display all warning lights and indicators illuminated.

Instrument cluster

▶ Non-optitron type meters

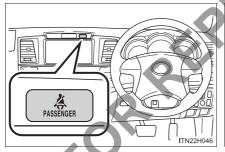


▶ Optitron type meters



Center panel

- Vehicles without multi-information display
- Vehicles with multi-information display





Warning lights

Warning lights inform the driver of malfunctions in the indicated vehicle's systems.



Brake system warning light (→P. 424)



Timing belt replacement warning light (→P. 426)



Charging system warning light (→P. 425)



Fuel system warning light (→P. 426)



Low engine oil pressure warning light (\rightarrow P. 425)



Open door warning light (→P. 427)



Malfunction indicator lamp (\rightarrow P. 425)



Low fuel level warning light (→P. 427)



SRS warning light (→P. 425)



Driver's seat belt reminder light (→P. 427)



ABS warning light (→P. 426)



Front passenger's seat belt reminder light (→P. 427)



Slip indicator light (→P. 426)



Unengaged "Park" warning light (→P. 427)



Cruise control indicator light (\rightarrow P. 426)



Four-wheel drive indicator light (→P. 426)



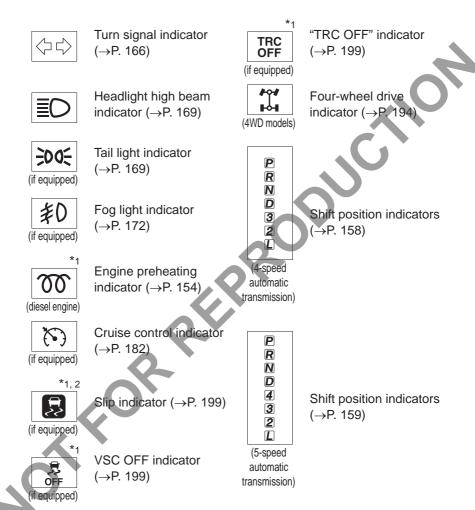
A/T OIL TEMP (if equipped) Automatic transmission fluid temperature warning light (→P. 426)

- *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 light flashes to indicate a malfunction.



Indicators

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



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 light flashes to indicate that the system is operating.

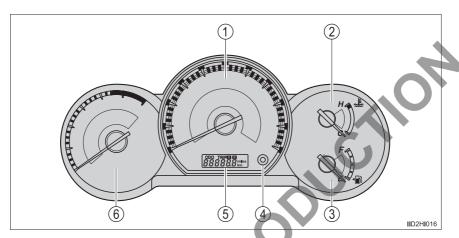


■ If a safety system warning light does not come on

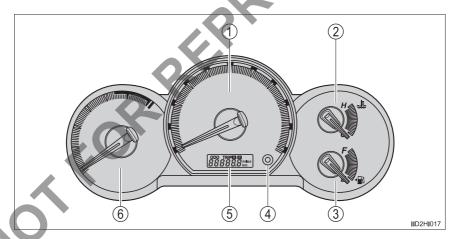
Should a safety system light such as ABS and the SRS warning light not come on when you start the engine, this could mean that these systems are not available to help protect you in an accident, which could result in death or serious injury. Have the vehicle inspected by your Toyota dealer immediately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

Gauges and meters

▶ Non-Optitron type meters



▶ Optitron type meters



(1) Speedometer

Displays the vehicle speed.

- ② Engine coolant temperature gauge Displays the engine coolant temperature.
- (3) Fuel gauge

Displays the quantity of fuel remaining in the tank.

- 4 Odometer/trip meter display change button
 - →P. 88
- (5) Odometer and trip meter display

Odometer:

Displays the total distance the vehicle has been driven.

Trip meter:

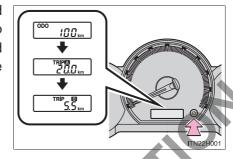
Displays the distance the vehicle has been driven since the meter was last reset. Trip meters A and B can be used to record and display different distances independently.

(6) Tachometer

Displays the engine speed in revolutions per minute.

Changing the display

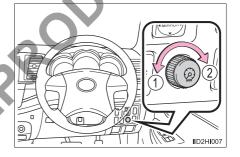
Switches between odometer and trip meter displays. When the trip meter is displayed, pressing and holding the button will reset the trip meter.



Instrument panel light control (if equipped)

The brightness of the instrument panel lights can be adjusted by turning the knob.

- 1 Darker
- 2 Brighter



■ The meters illuminate when

▶ Vehicles without optitron type meter

The front position lights are turned on.

▶ Vehicles with optitron type meter

The engine switch is in the "ON" position.

■ The odometer and trip meter display illuminate when

The engine switch is in the "ON" position.

■ The brightness of the instrument panel lights

When the headlight switch is turned to on, the brightness will be reduced slightly unless the control dial is turned fully clockwise.

■ When disconnecting and reconnecting battery terminals

The trip meter data will be reset.



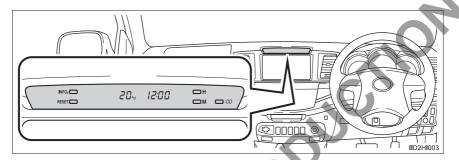
■ To prevent damage to the engine and its components

- 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. 452)

Multi-information display*

Display contents

The multi-information display presents the driver with a variety of driving-related data including the current outside air temperature.



Trip information

(→P. 91)

Displays driving range, fuel consumption and other cruising-related information.

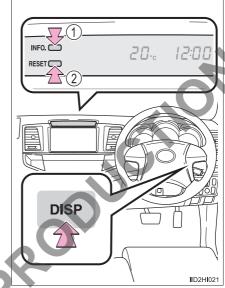
● Clock (→P. 333)

Trip information

■ Switching the display

- 1 "INFO." or "DISP"* button

 Items displayed can be switched
 by pressing the "INFO." button
 or "DISP" button.
- (2) "RESET" button
- *: If equipped



■ Outside temperature



Displays the outside temperature.

The temperature range that can be displayed is from -40°C (-40°F) to 50°C (122°F).

Average fuel consumption



Displays the average fuel consumption since the engine switch is turned to the "ON" position.

- The function can be reset by pressing the "RESET" button for longer than 1 second when the average fuel consumption is displayed.
- Use the displayed average fuel consumption as a reference.

■ Current fuel consumption



Displays the current rate of fuel consumption.

■ Average vehicle speed



Displays the average vehicle speed since the engine switch is turned to the "ON" position.

The function can be reset by pressing the "RESET" button for longer than 1 second when the average vehicle speed is displayed.

■ Elapsed time



Displays the elapsed time after the engine switch is turned to the "ON" position.

- When the engine switch is turned on, time is counted from 0:00. When the time exceeds 19:59, the counter returns to 0:00.
- The function can be reset by pressing the "RESET" button for longer than 1 second when the elapsed time is displayed.

Driving range



Displays the estimated maximum distance that can be driven with the quantity of fuel remaining.

- This distance is computed based on your average fuel consumption. As a result, the actual distance that can be driven may differ from that displayed.
- When only a small amount of fuel is added to the tank, the display may not be updated.
 When refueling, turn the engine switch to the "LOCK" position. If the vehicle is refueled without turn the engine switch to the "LOCK" position, the display may not updated.

■ Compass (if equipped)

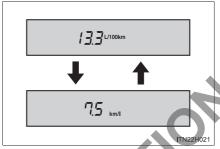
→P. 337

■ Display off

A blank screen is displayed.

Setting up the display

The fuel consumption unit can be changed.



- 1 Switch to the average fuel consumption or current fuel consumption display.
- 2 Hold down the "INFO." button until the unit flashes
- 3 Push the "RESET" button to change the unit
- 4 Push the "INFO." button.

■ Outside temperature display

In the following situations, the correct outside temperature may not be displayed, or the display may take longer than normal to change:

- When the vehicle is stopped, or moving at low speeds (less than 20 km/h [12 mph])
- When the outside temperature has changed suddenly (at the entrance/exit of a garage, tunnel, etc.)

■When "--" is displayed

The system may be malfunctioning. Take your vehicle to your Toyota dealer.

■ When disconnecting and reconnecting battery terminals

The following information data and settings will be reset:

- Average fuel consumption
- Average vehicle speed
- Elapsed time



A CAUTION

Cautions during setting up the display

As the engine needs to be operating during setting up the display, ensure that the vehicle is parked in a place with adequate ventilation. In a closed area such as a garage, exhaust gases including harmful carbon monoxide (CO) may collect and enter the vehicle. This may lead to death or a serious health hazard.



NOTICE

■ The information display at low temperatures

Allow the interior of the vehicle to warm up before using the liquid crystal information display. At extremely low temperatures, the information display monitor may respond slowly, and display changes may be delayed.

During setting up the display

To prevent battery discharge, ensure that the engine is operating while setting up the display features.

Operation of each component

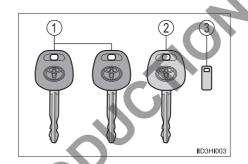
3-1.	Key information	
	Keys	98
3-2.	Opening, closing and lock the doors	ing
	Wireless remote control	100
	Side doors	102
	Tailgate	105
3-3.	Adjusting the seats	
	Front seats	107
	Rear seats	111
	Head restraints	114
3-4.	Adjusting the steering wh	eel
	and mirrors	
\	Steering wheel	117
	Inside rear view mirror	118
	Outside rear view	
	mirrors	119
3-5.	Opening and closing the windows	
	Power windows	121
	Quarter windows (extra-cab models)	124
	Back window (vehicles with sliding	
	type)	125

Keys

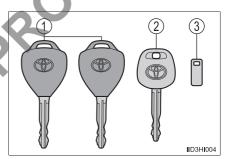
The keys

The following keys are provided with the vehicle.

- ▶ Type A
- 1 Master keys
- 2 Valet key
- (3) Key number plate



- ▶ Type B
- Master keys (with wireless remote control function)
 Operating the wireless remote control function (→P. 100)
- 2 Valet key
- 3 Key number plate



■When required to leave the vehicle's key with a parking attendant

Lock the glove box as circumstances demand. (\rightarrow P. 328)

Carry the master key for your own use and provide the attendant with the valet key.

■ If you lose your keys

New genuine keys can be made by your Toyota dealer using a master key and the key number stamped on your key number plate. Keep the plate in a safe place such as your wallet, not in the vehicle.

■When riding in an aircraft (type B)

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



NOTICE

■ To prevent key damage

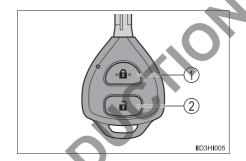
- Do not subject the keys to strong shocks, expose them to high temperatures by placing them in direct sunlight, or get them wet.
- Do not expose the keys to electromagnetic materials or attach any material that blocks electromagnetic waves to the key surface.
- Do not disassemble the keys.

Wireless remote control*

Function summary

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

- 1) Locks all the doors
- 2 Unlocks all the doors



■ Operation signals

The emergency flashers flash to indicate that the doors have been locked/unlocked. (Locked: once; Unlocked: twice)

■ 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 devices
- When multiple wireless keys are in the vicinity
- When the wireless key is in 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

■ Key battery depletion

If the wireless remote control function does not operate, the battery may be depleted. Replace the battery when necessary. (\rightarrow P. 384)

Side doors

Unlocking and locking the doors

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

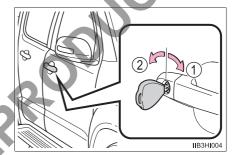
♦ Wireless remote control (if equipped)

→P. 100

Key

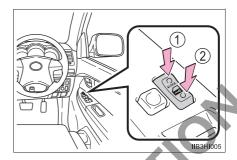
Turning the key operates the doors as follows:

- 1 Locks all the doors
- 2 Unlocks all the doors



Door lock switch (if equipped)

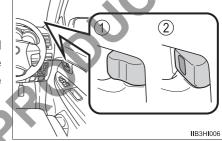
- 1 Locks all the doors
- 2 Unlocks all the doors



Inside lock buttons

- 1 Locks the door
- (2) Unlocks the door

The driver's door can be opened by pulling the inside handle even if the lock button is in the lock position.



Locking the front doors from the outside without a key

- 1 Move the inside lock button to the lock position.
- 2 Close the door while pulling the door handle.

The door cannot be locked if 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 lock is set.

- (1) Unlock
- (2) Lock

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



A CAUTION

■ To prevent an accident

Observe the following precautions while driving the vehicle.

Failure to do so may result in a door opening and an occupant falling out, resulting in death or serious injury.

- Ensure that all doors are properly closed and locked.
- Do not pull the inside handle of the doors while driving.

Be especially careful for the driver's door, as the door may be opened even if the inside lock button is in locked position.

Set the rear door child-protector locks when children are seated in the rear seats.

Tailgate*

The tailgate can be opened by the following procedures.

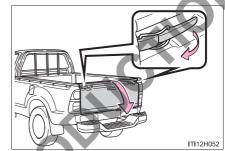
Opening the tailgate

▶ Type A

Unlock the latches and 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.

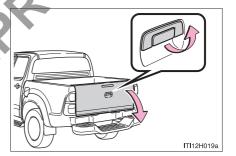


▶ Type B

Pull the handle and open the tailgate slowly.

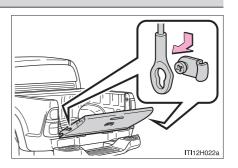
The support cables will hold the tailgate horizontal.

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



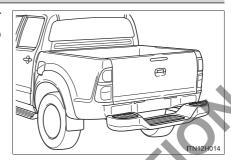
Lowering the tailgate

Release the brackets on the support cables from the lugs on both sides as shown in the illustration.



Rear step bumper (if equipped)

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



A CAUTION

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 get on the rear step bumper.



NOTICE

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.

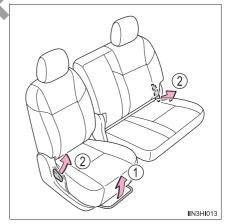
Front seats

Adjustment procedure

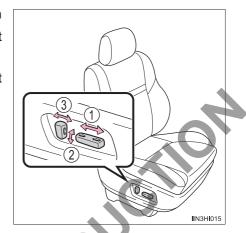
- ► Manual seat (separated type)
- 1 Seat position adjustment lever
- 2 Vertical height adjustment dial (if equipped for driver's side)
- 3 Seatback angle adjustment lever



- ► Manual seat (bench type)
- 1 Seat position adjustment lever (driver's side only)
- 2 Seatback angle adjustment lever



- ▶ Power seat (driver's side only)
- 1 Seat position adjustment switch
- 2 Vertical height adjustment switch
- ③ Seatback angle adjustment switch

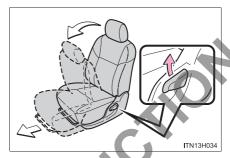


Moving a front passenger's seat for rear seat access (extra-cab models only)

■ Getting in the vehicle

Pull the seatback angle adjustment lever and fold down the seatback. The seat will slide forward.

Move the seat to the front-most position

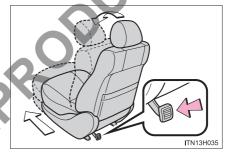


■ Getting out of the vehicle

Depress the release pedal and fold down the seatback. The seat will slide forward.

Move the seat to the front-most position

Make sure that no passenger is seated on the front passenger seat before depressing the release pedal.



■ After passengers have entered/exited the vehicle

Lift up the seatback and slide the seat backward until it locks.

When 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.

Seat adjustment

To reduce the risk of sliding under the lap belt during a collision, do not recline the seat more than necessary.

If the seat is too reclined, the lap belt may slide past the hips and apply restraint forces directly to the abdomen, or your neck may contact the shoulder belt, increasing the risk of death or serious injury in the event of an accident.

Adjustments should not be made while driving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.

Manual seat: After adjusting the seat, make sure that the seat is locked in position.

Caution while driving

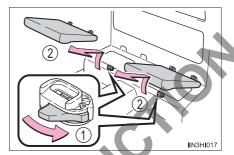
Extra-cab models only: Do not rest your foot on the release pedal behind the passenger seat.

Rear seats*

Removing the rear seat cushions (extra-cab models)

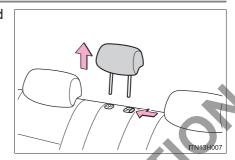
- 1) Unhook the lock release lever.
- 2 Pull the seat cushions up and then pull toward the front of vehicle.

The seat cushions can be removed separately.



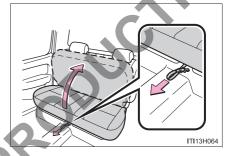
Raising the bottom cushion (double-cab models)

Remove the center head restraint.

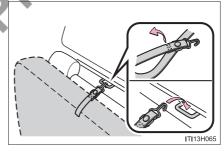


2 Pull the strap and raise the bottom cushion.

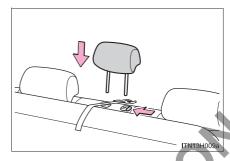
The latch under the bottom cushion will release allowing the bottom cushion to be raised.



3 Anchor the strap to the bracket behind the rear seat.



4 Replace the head center restraint.



A CAUTION

■ When removing the rear seat cushions (extra-cab models)

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

- Do not remove the rear seat cushions while driving.
- Be careful not to hit the removed rear seat cushions against a person or drop it on yourself.
- When reinstalling, returning the rear seat cushions, bottom cushion to their original position

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

- Be careful not to get your hands or feet pinched in the seat.
- Make sure there are no obstacles under the seat which would prevent the seat from properly locking into place.
- Make sure the rear seat cushions, bottom cushion securely locked by pushing it upward and downward.
- Check that the seat belts are not twisted or caught in the seatback.

Head restraints

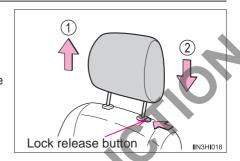
Front seats

(1) Up

Pull the head restraints up.

2 Down

Push the head restraint down while pressing the lock release button.



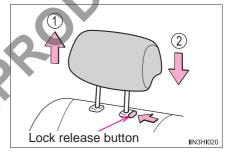
Rear seats (double-cab models only)

(1) Up

Pull the head restraints up.

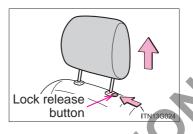
2 Down

Push the head restraint down while pressing the lock release button.



■ Removing the head restraints

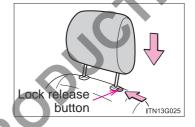
Pull the head restraint up while pressing the lock release button.



■Installing the head restraints

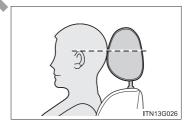
Align the head restraint with the installation holes and push it down to the lock position.

Press and hold the lock release button when lowering the head restraint.



Adjusting the height of the head restraints

Make sure that the head restraints are adjusted so that the center of the head restraint is closest to the top of your ears.



■ Adjusting the rear seat head restraint (double-cab models only)

Always raise the head restraint one level from the stowed position when using.

■ Head restraint precautions

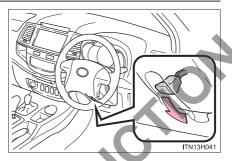
Observe the following precautions regarding the head restraints. Failure to do so may result in death or serious injury.

- Use the head restraints designed for each respective seat.
- Adjust the head restraints to the correct position at all times.
- After adjusting the head restraints, push down on them and make sure they are locked in position.
- Do not drive with the head restraints removed.

Steering wheel

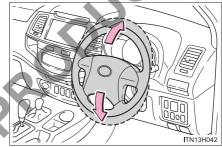
Adjustment procedure

1 Hold the steering wheel and push the lever down.



2 Adjust to the ideal position by moving the steering wheel.

After adjustment, pull the lever up to secure the steering wheel.



A CAUTION

■ Caution while driving

Do not adjust the steering wheel while driving.

Doing so may cause the driver to mishandle the vehicle and cause an accident, resulting in death or serious injury.

■ After adjusting the steering wheel

Make sure that the steering wheel is securely locked.

Otherwise, the steering wheel may move suddenly, possibly causing an accident, and resulting in death or serious injury.

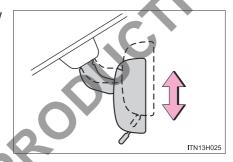
Inside rear view mirror

The rear view mirror's position can be adjusted to enable sufficient confirmation of the rear view.

Adjusting the height of rear view mirror

The height of the rear view mirror can be adjusted to suit your driving posture.

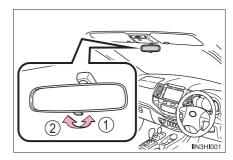
Adjust the height of the rear view mirror by moving it up and down.



Anti-glare function

Reflected light from the headlights of vehicles behind can be reduced by operating the lever.

- 1 Normal position
- 2 Anti-glare position



A CAUTION

Do not adjust the position of the mirror while driving.

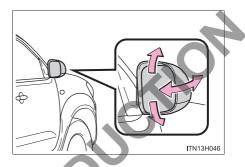
Doing so may lead to mishandling of the vehicle and cause an accident, resulting in death or serious injury.

Outside rear view mirrors

Adjustment procedure

▶ Manual adjustable type

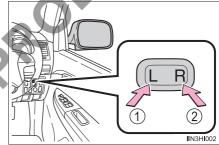
Adjust a mirror.

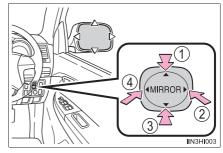


- ▶ Power adjustable type
- 1 To select a mirror to adjust, press the switch.
 - 1) Left
 - 2 Right



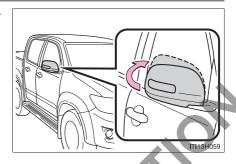
- (1) Up
- 2 Right
- 3 Down
- 4 Left





Folding the mirrors

Push the mirror back in the direction of the vehicle's rear.



■ Mirror angle can be adjusted when (power adjustable type)

The engine switch is in the "ACC" or "ON" position.

A CAUTION

■Important points while driving

Observe the following precautions while driving.

Failure to do so may result in loss of control of the vehicle and cause an accident, resulting in death or serious injury.

- Do not adjust the mirrors while driving.
- Do not drive with the mirrors folded.
- Both the driver and passenger side mirrors must be extended and properly adjusted before driving.

■ When a mirror is moving (power adjustable type)

To avoid personal injury and mirror malfunction, be careful not to get your hand caught by the moving mirror.

NOTICE

If ice should jam the mirror

Do not operate the control or scrape the mirror face. Use a spray de-icer to free the mirror.

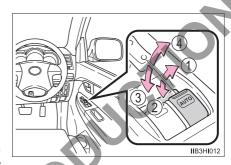
Power windows*

Opening and closing procedures

The power windows can be opened and closed using the switches.

Operating the switch moves the windows as follows:

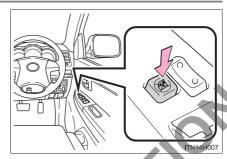
- 1 Closing
- 2 Opening
- ③ One-touch opening* (driver's window only)
- 4 One-touch closing* (driver's window only)
- *: To stop the window partway, operate the switch in the opposite direction.



Window lock switch

Press the switch down to lock the passenger window switches.

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



■ The power windows can be operated when

The engine switch is in the "ON" position.

■ Jam protection function (driver's window only)

If an object becomes caught between the window and the window frame, window travel is stopped and the window is opened slightly.

■ If the battery is disconnected (driver's window only)

The jam protection function may not operate normally. The power window must be initialized in order to ensure proper operation.

- 1 Open the window halfway.
- 2 Fully close the window by pulling the switch up and continue holding the switch for 1 second.



Observe the following precautions.

Failure to do so may result in death or serious injury.

Closing the windows

- 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.

■ Jam protection function (driver's window only)

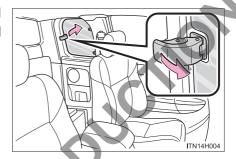
- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not operate if something gets caught just before the window fully closes.

Quarter windows (extra-cab models)

Opening and closing procedures

The quarter windows can be opened and closed using the latch handle.

To open the quarter windows, pull the latch handle toward you and swing it fully out.



■ Closing the quarter windows

Make sure that the quarter windows are securely closed after closing them.



■ Opening or closing the quarter windows

Observe the following precautions.

Failure to do so may result in death or serious injury.

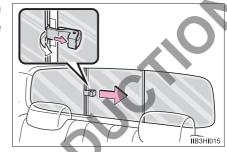
- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when a window is being operated.
- Do not allow children to operate the quarter windows.
 Closing a quarter window on someone can cause serious injury, and in some instances, even death.

Back window (vehicles with sliding type)

Opening and closing procedures

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

To open the back window, 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.



A CAUTION

Opening or closing the back window

Observe the following precautions.

Failure 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 the window is being operated.
- Do not allow children to operate the back window. Closing the back window on someone can cause serious injury, and in some instances, even death.



Driving

4-1.	Before driving
	Driving the vehicle128
	Cargo and luggage142
	Trailer towing143
4-2.	Driving procedures
	Engine (ignition) switch154
	Automatic transmission158
	Manual transmission163
	Turn signal lever166
	Parking brake167
	Horn168
4-3.	Operating the lights
	and wipers
V	Headlight switch169
	Fog light switch172
	Windshield wipers and
	washer173
4-4.	3
	Opening the fuel tank
	cap177
4-5.	
	systems Cruing control 192
	Cruise control182 Rear view monitor
	system187
	Four-wheel drive system194
	Driving assist systems 198
4-6.	
- 1-∪.	Winter driving tips203
	vinter driving tips200

Driving the vehicle

The following procedures should be observed to ensure safe driving:

Starting the engine

→P. 154

Driving

- ▶ Automatic transmission
- With the brake pedal depressed, shift the shift lever to D.
 (→P. 158)
- 2 Release the parking brake. (→P. 167)
- 3 Gradually release the brake pedal and gently depress the accelerator pedal to accelerate the vehicle.
 - Manual transmission
- While depressing the clutch pedal, shift the shift lever to 1. (→P. 163)
- 2 Release the parking brake. (→P. 167)
- 3 Gradually release the clutch pedal. At the same time, gently depress the accelerator pedal to accelerate the vehicle.

Stopping

- Automatic transmission
- 1 With the shift lever in D, depress the brake pedal.
- 2 If necessary, set the parking brake.
 If the vehicle is to be stopped for an extended period of time, shift the shift lever to P or N. (→P. 158)
- ▶ Manual transmission
- 1 While depressing the clutch pedal, depress the brake pedal.
- 2 If necessary, set the parking brake.

 If the vehicle is to be stopped for an extended period of time, shift the shift lever to N. (→P. 163)

Parking the vehicle

- ▶ Automatic transmission
- 1 With the shift lever in D, depress the brake pedal.
- 2 Set the parking brake. (→P. 167)
- 3 Shift the shift lever to P. (→P, 158)
- 4 Turn the engine switch to the "LOCK" position to stop the engine.
- 5 Lock the door, making sure that you have the key on your person. If parking on a hill, block the wheels as needed.

- Manual transmission
- 1 While depressing the clutch pedal, depress the brake pedal.
- 2 Set the parking brake. (→P. 167)
- 3 Shift the shift lever to N. (→P. 163)

 If parking on a hill, shift the shift lever to 1 or R as needed.
- 4 Turn the engine switch to the "LOCK" position to stop the engine.
- 5 Lock the door, making sure that you have the key on your person.

If parking on a hill, block the wheels as needed.

Starting off on a steep uphill

- ▶ Automatic transmission
- 1 Make sure that the parking brake is set and shift the shift lever to D.
- 2 Gently depress the accelerator pedal.
- Release the parking brake.
- Manual transmission
- 1 With the parking brake firmly set and the clutch pedal fully depressed, shift the shift lever to 1.
- 2 Lightly depress the accelerator pedal at the same time as gradually releasing the clutch pedal.
- 3 Release the parking brake.

■ Driving in the rain

- Drive carefully when it is raining, because visibility will be reduced, the windows may become fogged-up, and the road will be slippery.
- Drive carefully when it starts to rain, because the road surface will be especially slippery.
- Refrain from high speeds when driving on an expressway in the rain, because there may be a layer of water between the tires and the road surface, preventing the steering and brakes from operating properly.

■ Engine speed while driving (automatic transmission)

In the following conditions, the engine speed may become high while driving. This is due to automatic up-shifting control or down-shifting implementation to meet driving conditions. It does not indicate sudden acceleration.

- ■The vehicle is judged to be driving uphill or downhill
- When the accelerator pedal is released

■ Breaking in your new Toyota

To extend the life of the vehicle, observing the following precautions is recommended:

- For the first 300 km (200 miles)
 Avoid sudden stops.
- For the first 800 km (500 miles): Do not tow a trailer.
- For the first 1000 km (600 miles):
 - Do not drive at extremely high speeds.
 - Avoid sudden acceleration.
 - Do not drive continuously in the low gears.
 - Do not drive at a constant speed for extended periods.
 - Do not drive slowly with the manual transmission in a high gear.

■ Idling time before stopping the engine (diesel engine)

To prevent damage to the turbocharger, allow the engine to idle immediately after high-speed driving or driving up a hill.

Driv	Idling time	
Normal city driving	Not necessary	
High apped driving	Constant speed of approx. 80 km/h (50 mph)	Approximately 20 seconds
High-speed driving	Constant speed of approx. 100 km/h (62 mph)	Approximately 1 minute
Steep hill driving or of (62 mph) or more (ra	Approximately 2 minutes	

■ Operating your vehicle in a foreign country

Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel. $(\rightarrow P. 464)$

Observe the following precautions.

Failure to do so may result in death or serious injury.

When starting the vehicle

On vehicles with automatic transmission, always keep your foot on the brake pedal while stopped with the engine running. This prevents the vehicle from creeping.

When driving the vehicle

- Do not drive if you are unfamiliar with the location of the brake and accelerator pedals to avoid depressing the wrong pedal.
 - · Accidentally depressing the accelerator pedal instead of the brake pedal will result in sudden acceleration that may lead to an accident.
 - When backing up, you may twist your body around, leading to a difficulty in operating the pedals. Make sure to operate the pedals properly.
 - · Make sure to keep a correct driving posture even when moving the vehicle only slightly. This allows you to depress the brake and accelerator pedals properly.
 - Depress the brake pedal using your right foot. Depressing the brake pedal using your left foot may delay response in an emergency, resulting in an accident.
- Do not drive the vehicle over or stop the vehicle near flammable materials. The exhaust system and exhaust gases can be extremely hot. These hot parts may cause a fire if there is any flammable material nearby.



Observe the following precautions.

Failure to do so may result in death or serious injury.

When driving the vehicle

 During normal driving, do not turn off the engine. Turning the engine off while driving will not cause loss of steering or braking control, but the power assist to these systems will be lost. This will make it more difficult to steer and brake, so you should pull over and stop the vehicle as soon as it is safe to do so.

However, in the event of an emergency, such as if it becomes impossible to stop the vehicle in the normal way: \rightarrow P. 415

- Use engine braking (downshift) to maintain a safe speed when driving down a steep hill.
 - Using the brakes continuously may cause the brakes to overheat and lose effectiveness. (→P. 160)
- Do not adjust the positions of the steering wheel, the seat, or the inside or outside rear view mirrors while driving.
 - Doing so may result in a loss of vehicle control.
- Always check that all passengers' arms, heads or other parts of their body are not outside the vehicle.
- On vehicles with manual transmission, do not operate the clutch halfway for a long period of time unless it is necessary. Doing so could not only speed up clutch wear, but could also damage the clutch or even cause a fatal accident such as vehicle fire.

Observe the following precautions.

Failure to do so may result in death or serious injury.

■When driving on slippery road surfaces

- Sudden braking, acceleration and steering may cause tire slippage and reduce your ability to control the vehicle.
- Sudden acceleration, engine braking due to shift changing, or changes in engine speed could cause the vehicle to skid.
- After driving through a puddle, lightly depress the brake pedal to make sure that the brakes are functioning properly. Wet brake pads may prevent the brakes from functioning properly. If the brakes on only one side are wet and not functioning properly, steering control may be affected.

■When shifting the shift lever

- On vehicles with automatic transmission, do not let the vehicle roll backwards while the shift lever is in a driving position, or roll forward while the shift lever is in R.
 - Doing so may cause the engine to stall or lead to poor brake and steering performance, resulting in an accident or damage to the vehicle.
- On vehicles with automatic transmission, do not shift the shift lever to P while the vehicle is moving.
 - Doing so can damage the transmission and may result in a loss of vehicle control.
- Do not shift the shift lever to R while the vehicle is moving forward.
 Doing so can damage the transmission and may result in a loss of vehicle control.
- Do not shift the shift lever to D (vehicles with automatic transmission) or 1 (vehicles with manual transmission) while the vehicle is moving backward.
 Doing so can damage to the transmission and may result in a loss of vehicle control.
- Moving the shift lever to N while the vehicle is moving will disengage the engine from the transmission. Engine braking is not available when N is selected.
- On vehicles with automatic transmission, be careful not to shift the shift lever with the accelerator pedal depressed. Shifting the shift lever to a gear other than P or N may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.



■ If you hear a squealing or scraping noise (brake pad wear indicators)

Have the brake pads checked and replaced by your Toyota dealer as soon as possible.

Rotor damage may result if the pads are not replaced when needed.

It is dangerous to drive the vehicle when the wear limits of the brake pads and/or those of the brake discs are exceeded.

When the vehicle is stopped

- Do not race the engine. If the vehicle is in any gear other than P (vehicles with automatic transmission only) or N, the vehicle may accelerate suddenly and unexpectedly, causing an accident.
- On vehicles with automatic transmission, in order to prevent accidents due to the vehicle rolling away, always keep depressing the brake pedal while the engine is running, and apply the parking brake as necessary.
- If the vehicle is stopped on an incline, in order to prevent accidents caused by the vehicle rolling forward or backward, always depress the brake pedal and securely apply the parking brake as needed.
- Avoid revving or racing the engine. Running the engine at high speed while the vehicle is stopped may cause the exhaust system to overheat, which could result in a fire if combustible material is nearby.

When the vehicle is parked

Do not leave glasses, cigarette lighters, spray cans, or soft drink cans in the vehicle when it is in the sun.

Doing so may result in the following:

- Gas may leak from a cigarette lighter or spray can, and may lead to a fire.
- The temperature inside the vehicle may cause the plastic lenses and plastic material of glasses to deform or crack.
- Soft drink cans may fracture, causing the contents to spray over the interior of the vehicle, and may also cause a short circuit in the vehicle's electrical components.
- Do not leave cigarette lighters in the vehicle. If a cigarette lighter is in a place such as the glove box or on the floor, it may be lit accidentally when luggage is loaded or the seat is adjusted, causing a fire.
- Do not attach adhesive discs to the windshield or windows. Do not place containers such as air fresheners on the instrument panel or dashboard. Adhesive discs or containers may act as lenses, causing a fire in the vehicle.
- Do not leave a door or window open if the curved glass is coated with a metallized film such as a silver-colored one. Reflected sunlight may cause the glass to act as a lens, causing a fire.
- Always apply the parking brake, shift the shift lever to P (vehicles with automatic transmission only), stop the engine and lock the vehicle. Do not leave the vehicle unattended while the engine is running.
- Do not touch the exhaust pipes while the engine is running or immediately after turning the engine off.

Doing so may cause burns.



When taking a nap in the vehicle

Always turn the engine off. Otherwise, if you accidentally move the shift lever or depress the accelerator pedal, this could cause an accident or fire due to engine overheating. Additionally, if the vehicle is parked in a poorly ventilated area, exhaust gases may collect and enter the vehicle, leading to death or a serious health hazard.

When braking

- When the brakes are wet, drive more cautiously. Braking distance increases when the brakes are wet, and this may cause one side of the vehicle to brake differently than the other side. Also, the parking brake may not securely hold the vehicle.
- If the power brake assist function does not operate, do not follow other vehicles closely and avoid hills or sharp turns that require braking. In this case, braking is still possible, but the brake pedal should be depressed more firmly than usual. Also, the braking distance will increase. Have your brakes fixed immediately.
- Do not pump the brake pedal if the engine stalls. Each push on the brake pedal uses up the reserve for the power-assisted brakes.
- The brake system consists of 2 individual hydraulic systems: If one of the systems fails, the other will still operate. In this case, the brake pedal should be depressed more firmly than usual and the braking distance will increase.

Have your brakes fixed immediately.

■ If the vehicle becomes stuck (4WD models)

Do not spin the wheels excessively when any of the tires is up in the air, or the vehicle is stuck in sand, mud, etc. This may damage the driveline components or propel the vehicle forward or backward, causing an accident.

⚠ NOTICE

■ When driving the vehicle

- Do not depress the accelerator and brake pedals at the same time during driving, as this may restrain driving torque.
- On vehicles with automatic transmission, do not use the accelerator pedal or depress the accelerator and brake pedals at the same time to hold the vehicle on a hill.
- On vehicles with manual transmission, do not shift gears unless the clutch pedal is fully depressed. After shifting, do not release the clutch pedal abruptly. Doing so may damage the clutch, transmission and gears.
- On vehicles with manual transmission, observe the following to prevent the clutch from being damaged.
 - Do not rest your foot on the clutch pedal while driving.
 Doing so may cause clutch trouble.
 - Do not use any gear other than the 1st gear when starting off and moving forward.
 - Doing so may damage the clutch.
 - Do not use the clutch to hold the vehicle when stopping on an uphill grade.
 - Doing so may damage the clutch.
- On vehicles with manual transmission, do not shift the shift lever to R
 when the vehicle is still moving. Doing so may damage the clutch, transmission and gears.
- On vehicles with manual transmission, if you cannot accelerate the vehicle even when the clutch is engaged and the accelerator pedal is depressed, this may mean that the clutch is slipping, and the vehicle may be rendered undriveable. Have your Toyota dealer inspect the vehicle as soon as possible.

⚠ NOTICE

When parking the vehicle

On vehicles with automatic transmission, always shift the shift lever to P. Failure to do so may cause the vehicle to move or the vehicle may accelerate suddenly if the accelerator pedal is accidentally depressed.

Avoiding damage to vehicle parts

 Do not turn the steering wheel fully in either direction and hold it there for an extended period of time.

Doing so may damage the power steering pump.

- When driving over bumps in the road, drive as slowly as possible to avoid damaging the wheels, underside of the vehicle, etc.
- Diesel engine: Make sure to idle the engine immediately after high-speed driving or hill climbing. Stop the engine only after the turbocharger has cooled down.

Failure to do so may cause damage to the turbocharger.

If you get a flat tire while driving

A flat or damaged tire may cause the following situations. Hold the steering wheel firmly and gradually depress the brake pedal to slow down the vehicle.

- It may be difficult to control your vehicle.
- The vehicle will make abnormal sounds or vibrations.
- The vehicle will lean abnormally.

Information on what to do in case of a flat tire. (\rightarrow P. 429)

When encountering flooded roads

Do not drive on a road that has flooded after heavy rain etc. Doing so may cause the following serious damage to the vehicle:

Engine stalling

NOTICE

- Short in electrical components
- Engine damage caused by water immersion

In the event that you drive on a flooded road and the vehicle is flooded, be sure to have your Toyota dealer check the following:

- Brake function
- Changes in quantity and quality of oil and fluid used for the engine, transmission, transfer (4WD models), differential, etc.
- Lubricant condition for the propeller shaft, bearings and suspension joints (where possible), and the function of all joints, bearings, etc.



Cargo and luggage

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

A CAUTION

■ Things that must not be carried in the rear deck

The following things may cause a fire if loaded in the rear deck:

- Receptacles containing gasoline
- Aerosol cans

Storage precautions

Observe the following precautions.

Failure to do so may prevent the pedals from being depressed properly, may block the driver's vision, or may result in items hitting the driver or passengers, possibly causing an accident.

- Stow cargo and luggage in the rear deck whenever possible.
- Except for single-cab models: Do not stack anything behind the front seats higher than the seatbacks.
- Do not place cargo or luggage in or on the following locations.
 - · At the feet of the driver
 - On the front passenger seats (when stacking items)
 - Except for single-cab models: On the rear seat (when stacking items)
 - On the instrument panel
 - · On the dashboard
- Secure all items in the occupant compartment.
- 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.

Load and distribution

- Do not overload your vehicle.
- Do not apply loads unevenly. Improper loading may cause deterioration of steering or braking control which may cause death or serious injury.

Trailer towing

Your vehicle is designed primarily as a passenger-and-load carrying vehicle. Towing a trailer will have an adverse effect on handling, performance, braking, durability, and fuel consumption. For your safety and the safety of others, do not overload the vehicle or trailer.

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

For towing purposes, Toyota recommends using a sway control device when the total trailer weight is greater than the vehicle weight.

Weight limits

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

Gross vehicle weight

The gross vehicle weight must not exceed the following:

▶ 2WD models

Single-cab models: 2780 kg (6128 lb.) Extra-cab models: 2740 kg (6040 lb.) Double-cab models: 2710 kg (5974 lb.)

▶ 4WD models

Single-cab models: 2835 kg (6250 lb.) Extra-cab models: 2710 kg (5974 lb.)

Double-cab models: 2780 kg (6128 lb.) [with diesel engine]

2810 kg (6195 lb.) [with gasoline engine]

The gross vehicle weight is the sum weight of the unloaded vehicle, driver, passengers, luggage, hitch and trailer tongue load. Also included is the weight of any special equipment installed on your vehicle.

Gross axle weight

The load on either the front or rear axle resulting from distribution of the gross vehicle weight on both axles must not exceed the following:

▶ 2WD models

Single-cab models

Front: 1145 kg (2524 lb.) Rear: 1750 kg (3858 lb.)

Extra-cab models

Front: 1200 kg (2646 lb.) Rear: 1725 kg (3803 lb.)

Double-cab models

Front: 1200 kg (2646 lb.) Rear: 1550 kg (3417 lb.)

▶ 4WD models

Front: 1340 kg (2954 lb.) Rear: 1600 kg (3527 lb.)

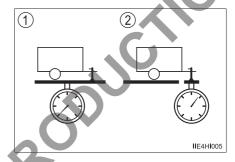
Trailer tongue load

The trailer cargo load should be distributed so that the tongue load is 9 to 11% of the total trailer weight, not exceeding 225 kg (496 lb.) [2WD models] or 250 kg (551 lb.) [4WD models].

(Tongue load/Total trailer weight \times 100 = 9 to 11%)

The total trailer weight and tongue load can be measured with platform scales found at a highway weighing stations, building supply companies, trucking companies, junk yards, etc.

- 1) Total trailer weight
- 2 Tongue load



Towing a trailer

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

Hitch

Trailer hitch assemblies have different weight capacities established by the hitch manufacturer. Even though the vehicle may be rated for towing a higher weight, the operator must never exceed the maximum weight rating specified for the trailer hitch.

■ Before towing

Check that the following conditions are met:

- The vehicle's tires are properly inflated. (\rightarrow P. 475)
- Trailer tires are inflated according to the trailer manufacturer's recommendation.
- All trailer lights work.
- All lights work each time you connect them.
- The trailer ball is set up 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

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

■ Maintenance

- If you tow a trailer, your vehicle will require more frequent maintenance due to the additional load. (See "Warranty and Service Booklet".)
- Retighten the fixing bolts of the towing ball and bracket after approximately 1000 km (600 miles) of trailer towing.

A CAUTION

To avoid accident or injury

- The total trailer weight (trailer weight plus the weight of cargo) must not exceed 2250 kg (4960 lb.) [2WD models] or 2500 kg (5511 lb.) [4WD models].
- The gross combined weight (sum of your vehicle weight plus its load and the total trailer weight) must not exceed the following:
 - ▶ 2WD models

Single-cab models: 5030 kg (11089 lb.) Extra-cab models: 4990 kg (11000 lb.) Double-cab models: 4960 kg (10934 lb.)

▶ 4WD models

Single-cab models: 5085 kg (11210 lb.) Extra-cab models: 4960 kg (10935 lb.)

Double-cab models: 5030 kg (11089 lb.) [with diesel engine]

5060 kg (11155 lb.) [with gasoline engine]

- Do not exceed the trailer hitch assembly weight, gross vehicle weight, gross axle weight and trailer tongue load capacities.
- Never load more weight in the back than in the front of the trailer. About 60% of the load should be in the front half of the trailer, and the remaining 40% in the rear.

Hitches

- Use only a hitch that conforms to the total trailer weight requirement.
- Follow the directions supplied by the hitch manufacturer.
- Depending on the type of trailer coupler you use, the trailer ball may need to be coated with grease. If so, apply grease to the trailer ball in accordance with the instructions of the manufacturer of the trailer coupler.
- Remove the trailer hitch whenever you are not towing a trailer. After removing the hitch, seal any mounting holes in the vehicle body to prevent entry of any substances into the vehicle.

A CAUTION

When towing a trailer

- If the total trailer weight exceeds 750 kg (1654 lb.), trailer brakes are required.
- 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 a risk 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 use axle-mounted hitches, as they can cause damage to the axle housing, wheel bearings, wheels or tires.

Brakes

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

Do not directly splice trailer lights

Directly splicing trailer lights may damage your vehicle's electrical system and cause a malfunction.

Trailer towing tips

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

- Before starting out, check the trailer lights 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.
- 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 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-tovehicle distance should be increased. For each 10 km/h (6 mph) of speed, allow at least one vehicle and trailer length.
- Avoid sudden braking as you may skid, resulting in jackknifing and loss of control. This is especially true on wet or slippery surfaces.
- Avoid jerky starts or sudden acceleration.
- Avoid jerky steering and sharp turns, and slow down before making turns.
- 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 larger than normal turning radius.

- Crosswinds and rough roads will adversely affect handling of your vehicle and trailer, causing sway. Periodically check the rear to prepare for being passed by large trucks or buses, which may cause your vehicle and trailer to sway. If swaying occurs, firmly grip the steering wheel, reduce speed immediately but gradually, and steer straight ahead. Never increase speed. If you make no extreme correction with the steering or brakes, your vehicle and trailer will stabilize.
- 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 changing system performance when using engine braking, do not use 5th gear (manual transmission) or D (automatic transmission).
- Due to the added load of the trailer, your vehicle's engine may overheat on hot days (at temperatures over 30°C [85°F]) 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. 452)

- Always place wheel blocks under both the vehicle and the trailer wheels when parking. Apply the parking brake firmly, and put the transmission in P (automatic transmission) or in the 1st or R (manual transmission). Avoid parking on a slope, but if unavoidable, do so only after performing the following:
 - 1 Apply the brakes and keep them applied.
 - 2 Have someone place wheel blocks under both the vehicle and trailer wheels.
 - 3 When the wheel blocks are in place, release the brakes slowly until the blocks absorb the load.
 - 4 Apply the parking brake firmly.
 - 5 Shift into the 1st or R (manual transmission) or P (automatic transmission) and turn off the engine.
- When restarting after parking on a slope:
 - 1 With the transmission in the P position (automatic transmission) or the clutch pedal (manual transmission) depressed, start the engine. On vehicles with automatic transmission, be sure to keep the brake pedal depressed.
 - 2 Shift into 3, 2, 1, or the R position (if reversing).
 - 3 Release the parking brake (also brake pedal on vehicles with automatic transmission), and slowly pull or back away from the wheel blocks. Stop and apply the brakes.
 - 4 Have someone retrieve the blocks.



A CAUTION

■ To avoid an accident

- Observe the legal maximum speeds for trailer towing.
- Slow down and downshift before descending steep or long downhill grades. 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.

Engine (ignition) switch

Starting the engine

- ► Automatic transmission (gasoline engine)
- 1 Check that the parking brake is set.
- 2 Check that the shift lever is set in P.
- 3 Firmly depress the brake pedal.
- 4 Turn the engine switch to the "START" position to start the engine.
 - ► Automatic transmission (diesel engine)
- 1 Check that the parking brake is set.
- 2 Check that the shift lever is set in P.
- Firmly depress the brake pedal.
- 4 Turn the engine switch to the "ON" position.

 The 00 indicator turns on.
- 5 After the 60 indicator light goes out, turn the engine switch to the "START" position to start the engine.
 - ► Manual transmission (gasoline engine)
- 1 Check that the parking brake is set.
- 2 Check that the shift lever is set in N.
- 3 Firmly depress the clutch pedal.
- 4 Turn the engine switch to the "START" position to start the engine.

- ► Manual transmission (diesel engine)
- 1 Check that the parking brake is set.
- 2 Check that the shift lever is set in N.
- 3 Firmly depress the clutch pedal.
- 4 Turn the engine switch to the "ON" position.
 - The on indicator turns on.
- 5 After the 60 indicator light goes out, turn the engine switch to the "START" position to start the engine.

Changing the engine switch positions

(1) "LOCK"

The steering wheel is locked and the key can be removed. (Vehicles with automatic transmission: The key can be removed only when the shift lever is in P.)

(2) "ACC"

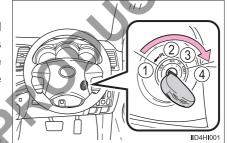
Some electrical components such as the audio system can be used.

(3) "ON"

All electrical components can be used.

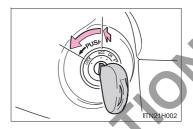
(4) "START"

For starting the engine.



■Turning the key from "ACC" to "LOCK"

- Shift the shift lever to P (automatic transmission) or N (manual transmission). (→P. 158, 163)
- 2 Push in the key and turn it to the "LOCK" position.

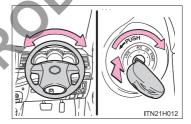


■ If the engine does not start

The engine immobilizer system may not have been deactivated. $(\rightarrow P. 78)$ Contact your Toyota dealer.

■ When the steering lock cannot be released

When starting the engine, the engine switch may seem stuck in the "LOCK" position. To free it, turn the key while turning the steering wheel slightly left and right.



■ Key reminder function

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

A CAUTION

When starting the engine

Always start the engine while sitting in the driver's seat. Do not depress the accelerator pedal while starting the engine under any circumstances. Doing so may cause an accident resulting in death or serious injury.

Caution when driving

Do not turn the engine switch to the "LOCK" position while driving. If in an emergency, you must turn the engine off while the vehicle is moving, turn the engine switch only to the "ACC" position to stop the engine. An accident may result if the engine is stopped while driving.



NOTICE

To prevent battery discharge

Do not leave the engine switch in the "ACC" or "ON" position for long periods of time without the engine running.

When starting the engine

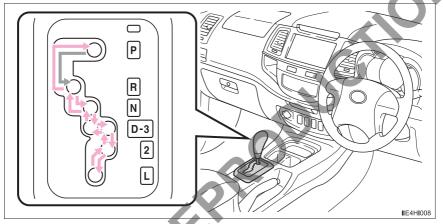
- Do not crank the engine for more than 30 seconds at a time. This may overheat the starter and wiring system.
- Do not race a cold engine.
- If the engine becomes difficult to start or stalls frequently, have your vehicle checked by your Toyota dealer immediately.

Automatic transmission*

Select a shift position appropriate for the driving conditions.

Shifting the shift lever

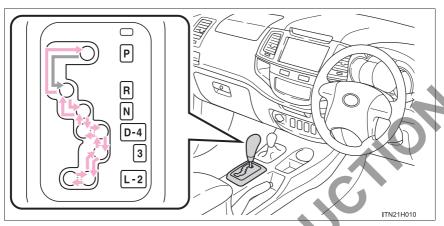
▶ 4-speed models



While the engine switch is in the "ON" position, move the shift lever with the brake pedal depressed.

When shifting the shift lever between P and D, make sure that the vehicle is completely stopped.

▶ 5-speed models



While the engine switch is in the "ON" position, move the shift lever with the brake pedal depressed.

When shifting the shift lever between P and D, make sure that the vehicle is completely stopped.

Shift position purpose

Chift position	Function		
Shift position	4-speed models	5-speed models	
Р	Parking the vehicle/starting the engine		
R	Reversing		
N	Neutral		
D	Normal driving*		
4	_	Position for engine braking	
3	Position for engine braking	Position for more	
2	Position for more powerful engine braking	powerful engine braking	
L	Position for maximum engine braking		

^{*:} To improve fuel efficiency and reduce noises, set the shift lever in the D position for normal driving.

■ Downshift restriction

The maximum allowable speeds are as follows.

▶ 4-speed models

Downshifting	Maximum speed km/h (mph)	
$D \rightarrow 3$	150 (93)	
3 → 2	100 (62)	
2 → L	45 (27)	

▶ 5-speed models

Downshifting	Maximum speed km/h (mph)		
		4WD models	
	2WD models	Front drive control lever in H2 or H4	Front drive control lever in L4
D → 4	150 (93)	140 (86)*1 175 (108)*2	-
4 → 3	120 (74)	100 (62)*1 135 (83)*2	35 (21)*1 50 (31)*2
3 → 2	80 (49)	65 (40) ^{*1} 90 (55) ^{*2}	25 (15)*1 35 (21)*2
2 → L	35 (21)	20 (12) ^{*1} 40 (24) ^{*2}	5 (3)*1 15 (9)*2

^{*1:} For KUN26R-TRADYQ3, KUN26R-PRASYQ and KUN26R-PRADYQ models*3

^{*2:} Except for KUN26R-TRADYQ3, KUN26R-PRADYQ and KUN26R-PRASYQ models*3

^{*3:} The model code is indicated on the manufacturer's plate. (\rightarrow P. 461)

■ AI-SHIFT (5-speed models)

AI-SHIFT automatically selects the suitable gear according to driver performance and driving conditions.

AI-SHIFT automatically operates when the shift lever is in the D position.

■ When driving with cruise control activated (if equipped)

Even when performing the following actions with the intent of enabling engine braking, engine braking will not activate while downshifting to 4 (5-speed models) or 3 (4-speed models) because cruise control will not be canceled. (→P. 182)

■ If the shift lever cannot be shifted from P

→P. 446



A CAUTION

■ When driving on slippery road surfaces

Do not accelerate or shift gears suddenly.

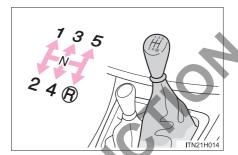
Sudden changes in engine braking may cause the vehicle to spin or skid, resulting in an accident.

Manual transmission*

Shifting the shift lever

Fully depress the clutch pedal before operating the shift lever, and then release it slowly.

If it is difficult to shift in reverse, shift the shift lever to N, release the clutch pedal momentarily, and then try again.



■ Maximum downshifting speeds

Observe the downshifting speeds in the following table to prevent over-revving the engine.

▶ 2WD models

Shift position	Maximum speed km/h (mph)	
	2TR-FE engine	1KD-FTV engine
1	43 (27)	35 (22)
2	81 (50)	64 (40)
3	116 (72)	104 (65)
4	166 (103)	150 (93)

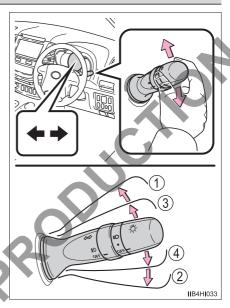
▶ 4WD models

Shift position	Front drive control lever	Maximum speed km/h (mph)	
		225/70R17 tires	265/65R17 tires
1	H2, H4	39 (24)	39 (24)
	L4	15 (9)	15 (9)
2	H2, H4	72 (45)	73 (45)
	L4	28 (17)	29 (18)
3	H2, H4	116 (72)	119 (74)
	L4	45 (28)	46 (29)
4	H2, H4	167 (104)	170 (106)
	L4	65 (40)	67 (42)

Turn signal lever

Operating instructions

- (1) Left turn
- 2 Right turn
- 3 Lane change to the left (push and hold the lever partway)
 The left hand signals will flash until you release the lever.
- 4 Lane change to the right (push and hold the lever partway)
 The right hand signals will flash until you release the lever.



■ Turn signals can be operated when

The engine switch is in the "ON" position.

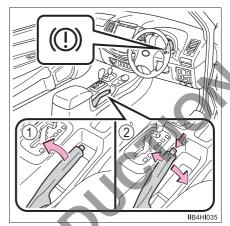
■ If the indicator flashes faster than usual

Check that a light bulb in the front or rear turn signal lights has not burned out.

Parking brake

- Sets the parking brake
 Fully pull the parking brake while depressing the brake pedal.
 At this time, the brake system warning light will come on.
- Releases the parking brake Slightly raise the lever and lower it completely while pressing the button.

At this time, the brake system warning light will go off.



■Usage in winter time

→P. 204



NOTICE

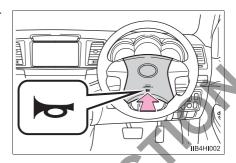
Before driving

Fully release the parking brake.

Driving the vehicle with the parking brake set will lead to brake components overheating, which may affect braking performance and increase brake wear.

Horn

To sound the horn, press on or close to the mark.



■ After adjusting the steering wheel

Make sure that the steering wheel is securely locked. The horn may not sound if the steering wheel is not securely locked. $(\rightarrow P. 117)$

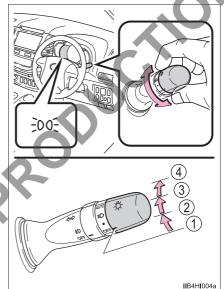
Headlight switch

The headlights can be operated manually or automatically.

Operating instructions

Turning the end of the lever turns on the lights as follows:

- (1) OFF Off
- 2 The front position, tail, license plate and instrument panel lights turn on.
- ③ **≣O** The headlights and all lights listed above turn on.
- 4 AUTO The headlights and all (if equipped) the lights listed above turn on and off automatically (when the engine switch is in the "ON" position.)



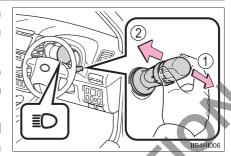
Turning on the high beam headlights

1 With the headlights on, push the lever away from you to turn on the high beams.

Pull the lever toward you to the center position to turn the high beams off.

2 Pull the lever toward you and release it to flash the high beams once.

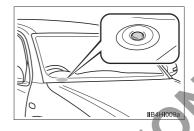
You can flash the high beams with the headlights on or off.



■ Headlight control sensor (if equipped)

The sensor may not function properly if an object is placed on the sensor, or anything that blocks the sensor is affixed to the windshield.

Doing so interferes with the sensor detecting the level of ambient light and may cause the automatic headlight system to malfunction.



■ Light reminder buzzer

A buzzer sounds when the key is removed and the driver's door is opened while the lights are turned on.

■ Customization that can be configured by your Toyota dealer (vehicles with headlight control sensor)

Setting of the light sensor sensitivity can be changed



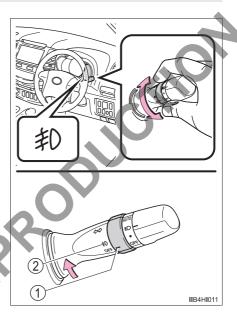
■ To prevent battery discharge

Do not leave the lights on longer than necessary when the engine is not running.

Fog light switch*

The fog lights secure excellent visibility in difficult driving conditions, such as in rain and fog.

- 1) OFF Turns the fog lights off
- 2 **‡**) Turns the fog lights on



■ Fog lights can be used when

The headlights or front position lights are turned on.

Windshield wipers and washer

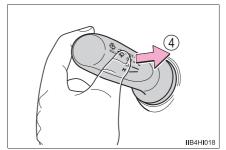
Operating the wiper lever

The wiper operation is selected by moving the lever as follows.

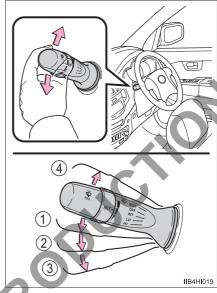
- ▶ Windshield wipers without intermittent operation
- 1) Low speed operation
- 2 High speed operation
- 3 Temporary operation



4 Washer operation

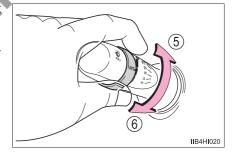


- ▶ Intermittent windshield wipers with interval adjuster
- 1 Intermittent operation
- 2 Low speed operation
- 3 High speed operation
- 4 Temporary operation



Wiper intervals can be adjusted when intermittent operation is selected.

- 5 Decreases the intermittent windshield wiper frequency
- 6 Increases the intermittent windshield wiper frequency



7 Washer/wiper dual operation

The wipers will automatically operate a couple of times after the washer squirts.



■ The windshield wiper and washer can be operated when

The engine switch is in the "ON" position.

■ If no windshield washer fluid sprays

Check that the washer nozzles are not blocked if there is washer fluid in the windshield washer fluid reservoir.



A CAUTION

■ Caution regarding the use of washer fluid

When it is cold, do not use the washer fluid until the windshield becomes warm. The fluid may freeze on the windshield and cause low visibility. This may lead to an accident, resulting in death or serious injury.

⚠ NOTICE

■ When the windshield is dry

Do not use the wipers, as they may damage the windshield.

■When the washer fluid tank is empty

Do not operate the switch continually as the washer fluid pump may overheat.

■When a nozzle becomes blocked

In this case, contact your Toyota dealer.

Do not try to clear it with a pin or other object. The nozzle will be damaged.

Opening the fuel tank cap

Perform the following steps to open the fuel tank cap:

Before refueling the vehicle

- Close all the doors and windows, and turn the engine switch to the "LOCK" position.
- Confirm the type of fuel.

■ Fuel types

▶ 1GR-FE engine

Unleaded gasoline, Research Octane Number of 95 or higher

▶ 2TR-FE engine

Unleaded gasoline, Research Octane Number of 91 or higher

▶ 1KD-FTV engine

Diesel fuel, Cetane number 48 or higher

■ Use of ethanol blended gasoline in a gasoline engine

Toyota allows the use of ethanol blended gasoline where the ethanol content is up to 10%. Make sure that the ethanol blended gasoline to be used has a Research Octane Number that follows the above.

A CAUTION

When refueling the vehicle

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

- After exiting the vehicle and before opening the fuel cap, touch an unpainted metal surface to discharge any static electricity. It is important to discharge static electricity before refueling because sparks resulting from static electricity can cause fuel vapors to ignite while refueling.
- Type A (\rightarrow P. 179) only: 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 the filler neck and cause injury.

- Do not allow anyone that has not discharged static electricity from their body to come close to an open fuel tank.
- 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 ignition hazard.

When refueling

Observe the following precautions to prevent fuel overflowing from the fuel tank:

- Securely insert the fuel nozzle into the fuel filler neck.
- Stop filling the tank after the fuel nozzle automatically clicks off.
- Do not top off the fuel tank.



NOTICE

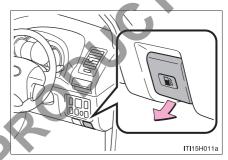
Refueling

Do not spill fuel during refueling.

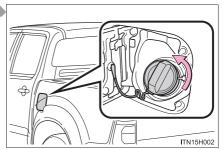
Doing so may damage the vehicle, such as causing the emission control system to operate abnormally or damaging fuel system components or the vehicle's painted surface.

Opening the fuel tank cap

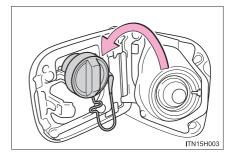
- ▶ Type A
- 1 Pull up the opener to open the fuel filler door.



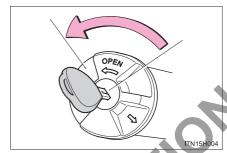
2 Turn the fuel tank cap slowly to open.



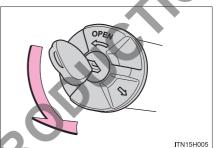
3 Hang the fuel tank cap on the back of the fuel filler door.



- ▶ Type B
- 1 To unlock the fuel tank cap, insert the key and turn it counterclockwise.



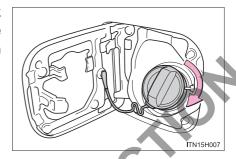
2 Turn the fuel tank cap slowly to open.



Closing the fuel tank cap

▶ Type A

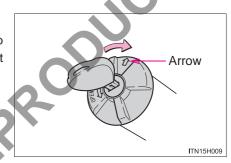
After refueling, turn the fuel tank cap until you hear a click. Once the cap is released, it will turn slightly in the opposite direction.



▶ Type B

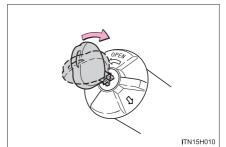
1 Close the fuel tank cap

Make sure to put the fuel tank cap with the arrow upward and turn it slowly to close.



2 Lock the fuel cap

Turning the fuel cap key clockwise.



A CAUTION

When replacing the fuel tank cap

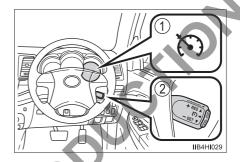
Do not use anything but a genuine Toyota fuel tank cap designed for your vehicle. Doing so may cause a fire or other incident which may result in death or serious injury.

Cruise control*

Summary of functions

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

- (1) Indicator
- (2) Cruise control switch

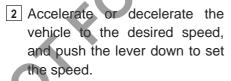


Setting the vehicle speed

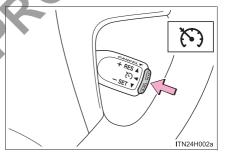
1 Press the "ON-OFF" button to activate the cruise control.

Cruise control indicator will come on.

Press the button again to deactivate the cruise control.



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





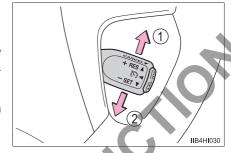
Adjusting the set speed

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

- 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 1.6 km/h (1 mph) 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

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 40 km/h (25 mph).



■ Cruise control can be set when

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

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

■ 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.



A 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 an image of the view behind the vehicle and fixation guide lines 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.

The rear view monitor system will activate when the shift lever is in R.

- 1 Vehicles with automatic transmission
- 2 Vehicles with manual transmission

If you move the lever out of R, the rear view monitor system will be deactivated.

When the shift lever is shifted to the R position and any mode button (such as "SETUP") is pressed, the rear view monitor system is canceled, and the screen is switched to the mode of the button that was pressed.



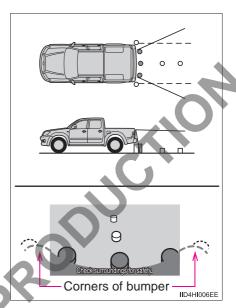
Rear view monitor system precautions

■ 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.

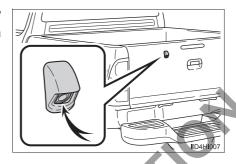
To adjust the image on the rear view monitor system screen, refer to the "Navigation System Owner's Manual".

- 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 displayed.
- 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 on the monitor.



■ Rear view monitor system camera

The camera for the rear view monitor system is located on the tailgate.



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 with water and wipe with a soft cloth. If the lens is extremely dirty, wash it with a mild cleanser and rinse.

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, refer to the "Navigation System Owner's Manual".	
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.	

Symptom	Likely cause	Solution	
The image is out of alignment	The camera or surrounding area has received a strong impact.	Have the vehicle inspected by your Toyota dealer.	
A vertical white streak is on the screen	When a bright spot (such as sunlight reflecting off the body of another vehicle) is received by the camera, a vertical streak may be left above and below the bright spot (smear effect).	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.)	

A 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 guide lines. 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
 - 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 check direct visually and with the mirrors all around the vehicle before proceeding.
- If the tire sizes are changed, the position of the fixation 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. (\rightarrow P. 189)



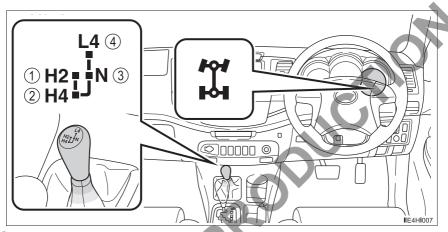
NOTICE

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.
- 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 drive control lever 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 light comes on

3 N (neutral position)

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

The four-wheel drive indicator light comes on

4) 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 indicator light comes on

A.D.D. (automatic disconnecting differential) (if equipped)

The A.D.D. can be engaged or disengaged by the shifting operations described in the following shifting procedures.

Shifting between H2 and H4

- Shifting from H2 to H4
 - 1 Reduce your speed to less than 80 km/h (50 mph).
 - 2 Move the front drive control lever.
- Shifting from H4 to H2

Simply move the front drive control lever.

In both cases, you need not depress the clutch pedal. (manual transmission)

Shifting between H4 and L4 (automatic transmission)

- 1 Stop the vehicle.
- 2 Shift the shift lever to N.
- 3 Move the front drive control lever.

Shifting between H4 and L4 (manual transmission)

■ Shifting from H4 to L4

- 1 Stop the vehicle or reduce your speed to less than 8 km/h (5 mph).
- 2 With your foot off the accelerator pedal, depress the clutch pedal,
- 3 Move the front drive control lever.

■ Shifting from L4 to H4

- 1 Depress the clutch pedal.
- 2 Move the front drive control lever.

Four-wheel drive usage frequency (vehicles with A.D.D.)

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

■ Shifting between H2 and H4

- If you have trouble shifting in cold weather, reduce your speed or stop the vehicle and reshift.
- If the four-wheel drive indicator does not go off when you shift from H4 to H2, drive straight ahead while accelerating or decelerating, or drive in reverse.

■Shifting to L4

VSC is automatically turned off.



A CAUTION

■While driving

- Never shift the front drive control lever 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.
- Securely shift the front drive control lever to H4 or L4. Otherwise, the transfer may disengage both the front and rear driveshafts from the power-train and allow the vehicle to move regardless of the shift position. If this happens, the vehicle may be free to roll even if the automatic transmission is in P.

Driving

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 (if equipped)

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

♦ VSC (Vehicle Stability Control) (if equipped)

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

◆ TRC (Traction Control) (if equipped)

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

LSD (Limited Slip Differential) (if equipped)

Helps traction when one rear wheel begins to spin by automatically transmitting driving force to the other rear wheel

When the TRC/VSC systems are operating

If the vehicle is in danger of slipping or if any of the drive wheels spins, the slip indicator flashes to indicate that the TRC/VSC systems are operating.



Disabling the TRC/VSC systems

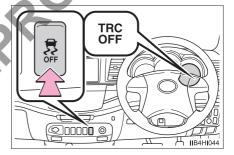
If the vehicle gets stuck in fresh snow or mud, the TRC/VSC systems may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.

■ Turning off TRC system only

To turn the TRC system off, quickly press and release the switch.

The "TRC OFF" indicator light will come on.

Press the switch again to turn the system back on.

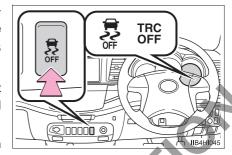


■ Turning off both TRC and VSC systems

To turn the TRC and VSC systems off, press and hold the switch for more than 3 seconds while the vehicle is stopped.

The "TRC OFF" indicator light and VSC OFF indicator light will come on.

Press the switch again to turn the system back on.



Sounds and vibrations caused by the ABS, brake assist, VSC and TRC

- 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 after the ABS is activated.
 - The brake pedal may move down slightly after the ABS is activated.

■ Reactivation of the TRC/VSC systems after turning off the engine

Turning off the engine after turning off the TRC/VSC systems will automatically reactivate them.

■ Reactivation of the TRC system linked to vehicle speed

When only the TRC system is turned off, the TRC system will turn on when vehicle speed increases. However, when both TRC and VSC systems are turned off, the systems will not turn on even when vehicle speed increases.

■ If the slip indicator light comes on...

It may indicate a malfunction in the VSC and TRC. Consult your Toyota dealer.



A CAUTION

■ The ABS does not operate effectively when

- The limits of tire gripping performance have been exceeded such as excessively worn tires on a snow covered road).
- 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 uneven surfaces

A CAUTION

■TRC may not operate effectively when

Directional control and power may not be achievable while driving on slippery road surfaces, even if the TRC system is operating.

Do not drive the vehicle in conditions where stability and power may be lost.

When the VSC is activated

The slip indicator light flashes. Always drive carefully.

Reckless driving may cause an accident. Exercise particular care when the indicator light flashes.

■ When the TRC/VSC systems are turned off

Be especially careful and drive at a speed appropriate to the road conditions. As these are the systems to ensure vehicle stability and driving force, do not turn the TRC/VSC systems off unless necessary.

Replacing tires

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

The ABS and VSC systems will not function correctly if different tires are installed on the vehicle.

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

Handling of tires and the 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.

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 condition of the battery.
- 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 or move a wiper 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.
- Check for and remove any excess ice or snow that may have accumulated on the exterior lights, vehicle's roof, chassis, around the tires or on the brakes.
- Remove any snow or mud from the bottom of your shoes before getting in the vehicle.

When driving the vehicle

Accelerate the vehicle slowly, keep a safe distance between you and the vehicle ahead, and drive at a reduced speed suitable to road conditions.

When parking the vehicle (in the winter time or in the cold latitudes)

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.

Regulations on the use of tire chains

Regulations regarding the use of tire chains vary depending on location and type of road. Always check local regulations before installing chains.

■ Tire 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. Do not install tire chains on the front tires.
- Install tire chains on rear tires as tightly as possible. Retighten chains after driving 0.5 1.0 km (1/4 1/2 mile).
- Install tire chains following the instructions provided with the tire chains.

A 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 specified size.
- Maintain the recommended level of air pressure.
- Do not drive at speeds in excess of the speed limit or the speed limit speed ified for the snow tires being used.
- Use snow tires on all, not just some wheels.

Driving with tire 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 50 km/h (30 mph), whichever is lower.
- Avoid driving on bumpy road surfaces or over potholes.
- Avoid sudden acceleration, abrupt steering, sudden braking and shifting operations that cause sudden engine braking.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.

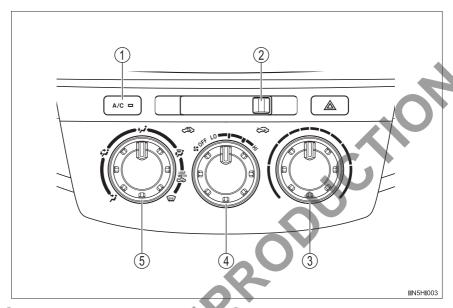


5-1.	Using the air conditioning system and defogger Manual air conditioning system	5-6.	Using the audio system Selecting the audio source
5-2	Using the multimedia system	5-7.	Playing an audio CD and
J-Z.	•		MP3/WMA discs
	Audio system types226		CD player operation249
	Multimedia system228	5-8.	Using an external device
5-3.	Basic Operations		Listening to an iPod256
	Multimedia system		Listening to a USB
	Operations229		memory device262
	Steering wheel audio switches231		Using the AUX port268
	USB/AUX Port232	>	
	Basic Audio Operations 233		
5-4.	Setup		
	Setup menu235		
	General settings236		
	Audio settings238		
	Display settings239		
	35		

Interior features

5-9.	Connecting Bluetooth ^o	5-13. Bluetootn°	
	Preparations to	What to do if	
	use wireless	(Troubleshooting)	
	communication269	Bluetooth [®]	320
	Registering a Bluetooth®	5-14. Using the interior ligh	ts
	audio player for the first time272	Interior lights list	325
	Registering a Bluetooth®	 Personal lights 	_
	phone for the first time273	Interior light	326
	Registering a Bluetooth®	5-15. Using the storage feat	tures
	device274	List of storage features	327
	Connecting a Bluetooth®	• Glove box	328
	device277	Console box	328
	Displaying a Bluetooth®	• Cup holders	329
	device details280	Bottle holders	
	Detailed Bluetooth® system settings282	Auxiliary boxes	
E 40). Bluetooth® Audio	5-16. Other interior features	
5-10		Sun visors and vanity	,
	Listening to Bluetooth® Audio284	mirror	332
E 44	I.Bluetooth® Phone	Clock	
5 -11		Ashtray	
	Using a Bluetooth® Phone286	Cigarette lighter	
	Making a call289	Power outlet	
	Receiving a call294	Compass	
	Speaking	G 6.1. P 6.6.	
	on the telephone295		
	Bluetooth [®] phone		
	message function299		
	Bluetooth [®] phone		
	settings304		
5-12	2.Contact		
	Contact/Call history		
	settings306		

Manual air conditioning system*



- Cooling and dehumidification function on/off button equipped)
- and dehumidification ③ Temperature control dial
 - button (if 4) Fan speed control dial
 - (5) Air outlet selector dial
- 2 Outside/recirculated air mode lever

Adjusting the settings

- 1 To adjust the fan speed, turn the fan speed control dial clockwise (increase) or counterclockwise (decrease).
 - Turning the dial to "OFF" turns off the fan.
- 2 To adjust the temperature setting, turn the temperature control dial clockwise (warm) or counterclockwise (cool).
 - If the "A/C" button is not pressed, the system will blow ambient temperature air or heated air. (if equipped)
- 3 To select the air outlets, set the air outlet selector dial to the desired position.

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

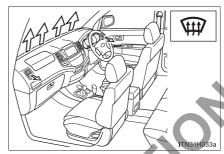
Defogging the windshield

1 Set the air outlet selector dial to



position.

Set the outside/recirculated air mode lever to outside air mode if recirculated air mode is used.

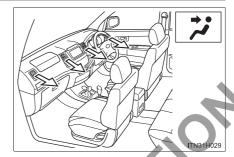


- 2 Perform the following operations accordingly:
 - To adjust the fan speed, turn the fan speed control dial.
 - To adjust the temperature setting, turn the temperature control dial.
 - If the dehumidification function is not operating, press the "A/C" button to operate the dehumidification function. (if equipped)

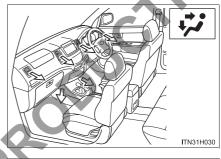
To defog the windshield and the side windows early, turn the air flow and temperature up.

Air outlets and air flow

Upper body



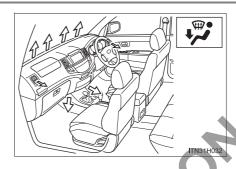
Upper body and feet



Feet



Feet and windshield



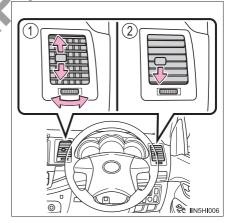
Switching between outside air and recirculated air modes

Move the outside/recirculated air mode lever.

The mode switches between (introduces air from outside the vehicle) and (recycles air inside the vehicle) each time the lever is moved.

Adjusting the position of and opening and closing the air outlets

- Direct air flow to the left or right, up or down.
- 2 Close the vents.



■ Fogging up of the windows

- The windows will easily fog up when the humidity in the vehicle is high. Turning the "A/C" button on will dehumidify the air from the outlets and defog the windshield effectively. (if equipped)
- If you turn the "A/C" button off, the windows may fog up more easily. (if equipped)
- The windows may fog up if the recirculated air mode is used.

■ Outside/recirculated air mode

When driving on dusty roads such as tunnels or in heavy traffic, set the outside/recirculated air mode lever to the recirculated air mode. This is effective in preventing outside air from entering the vehicle interior. During cooling operation, setting the recirculated air mode will also cool the vehicle interior effectively.

■When driving on dusty roads

Close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake mode be set to outside air mode and the fan speed to any setting except off.

■ When the outside temperature falls to nearly 0°C (32°F)

The dehumidification function may not operate even when the "A/C" button is pressed. (if equipped)

■ 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.

■ Air conditioning filter

→P. 382

A CAUTION

■To prevent the windshield from fogging up

Do not set the air outlet selector 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.

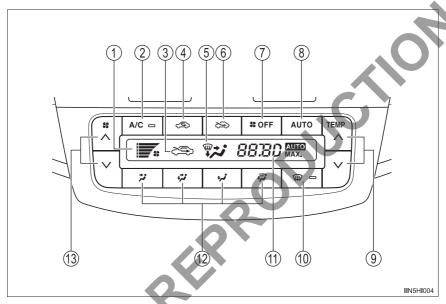


■To prevent battery discharge

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

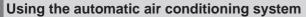
Automatic air conditioning system*

Air outlets and fan speed are automatically adjusted according to the temperature setting.



- 1 Fan speed display
- 2 Cooling and dehumidification function on/off button
- 3 Air intake display
- 4 Recirculated air mode button
- 5 Air outlet display
- 6) Outside air mode button

- (7) Off button
- 8 Automatic mode button
- (9) Temperature control buttons
- (10) Windshield defogger button
- (1) Temperature setting display
- (12) Air outlet selector buttons
- (13) Fan speed control buttons



1 Press the "AUTO" button.

The dehumidification function begins to operate. Air outlets and fan speed are automatically adjusted according to the temperature setting.

Press to increase the temperature and to decrease the temperature.

3 Press the "A/C" button.

The cooling and dehumidification function switches between on and off each time the button is pressed.

Adjusting the settings manually

1 To adjust the fan speed, press to increase the fan speed and to decrease the fan speed.

Press the "OFF" button to turn the fan off.

2 To adjust the temperature setting, press to increase the temperature and to decrease the temperature.

3 To change the air outlets, press , , , or

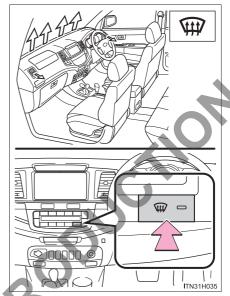
Defogging the windshield

Press — .

The dehumidification function operates and fan speed increases. Press the outside air mode button if the recirculated air mode is used. (It may switch automatically.)

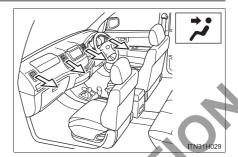
To defog the windshield and the side windows early, turn the air flow and temperature up.

To return to the previous mode, press again when the windshield is defogged.

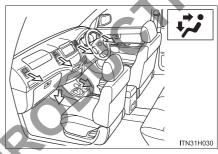


Air outlets and air flow

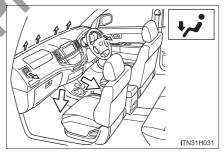
Upper body



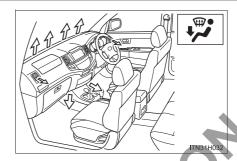
Upper body and feet



Feet



Feet and windshield

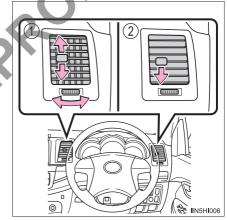


Switching between outside air and recirculated air modes

Press to switch to recirculated air mode and press to switch to outside air mode.

Adjusting the position of and opening and closing the air outlets

- 1 Direct air flow to the left or right, up or down.
- (2) Close the vents.



■Using automatic mode

Fan speed is adjusted automatically according to the temperature setting and the ambient conditions.

Therefore, the fan may stop for a while until warm or cool air is ready to flow immediately after the "AUTO" button is pressed.

■ Fogging up of the windows

- The windows will easily fog up when the humidity in the vehicle is high. Turning the "A/C" button on will dehumidify the air from the outlets and defog the windshield effectively.
- If you turn the "A/C" button off, the windows may fog up more easily.
- The windows may fog up if the recirculated air mode is used.

■ Outside/recirculated air mode

- When driving on dusty roads such as tunnels or in heavy traffic, press the recirculated air mode button. This is effective in preventing outside air from entering the vehicle interior. During cooling operation, setting the recirculated air mode will also cool the vehicle interior effectively.
- Outside/recirculated air mode may automatically switch depending on the temperature setting or the inside temperature.

■When driving on dusty roads

Close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake mode be set to outside air mode and the fan speed to any setting except off.

■ 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.

■ Air conditioning filter

→P. 382



A CAUTION

■To prevent the windshield from fogging up

Do not use 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

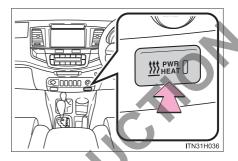
Do not leave the air conditioning system on longer than necessary when the engine is off.

Power heater*

This feature is used to keep the cabin warm in cold conditions.

Turns the power heater on/off

If you do not turn the switch to off, the engine speed is increased whenever the engine is started.



■ Power heater can be operated when

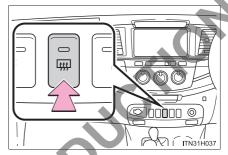
The engine is running.

Rear window defogger switch*

Defogger is used to defog the rear window.

Vehicles without automatic air conditioning system

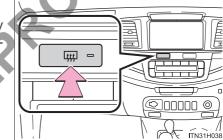
Turns the defogger on/off



▶ Vehicles with automatic air conditioning system

Turns the defogger on/off

The defogger will automatically turn off after approximately 15 minutes.



■ The defogger can be operated when

The engine switch is in the "ON" position.



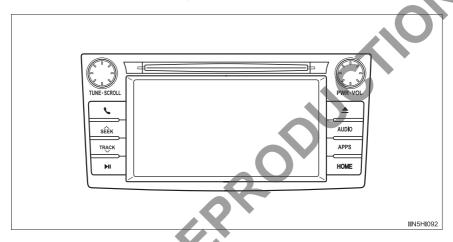
To prevent battery discharge

Turn the defogger off when the engine is off.

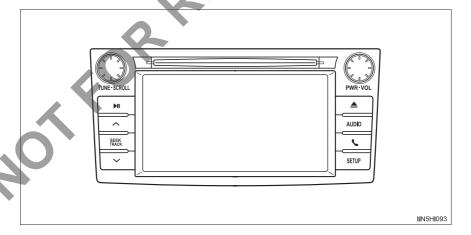
Audio system types

- ► Vehicles with a navigation system

 Refer to the "Navigation System Owner's Manual".
- ▶ Vehicles with a multimedia system
- Type A: Refer to the "Navigation System Owner's Manual".



Type B



Title	Page
Using the radio	P. 246
Using the CD player	P. 249
Playing back MP3 and WMA discs	P. 249
Operating an iPod	P. 256
Operating a USB memory	P. 262
Optimal use of the audio system	P. 244
Using the AUX port	P. 268



■To prevent battery discharge

Do not leave the audio system on longer than necessary when the engine stopped.

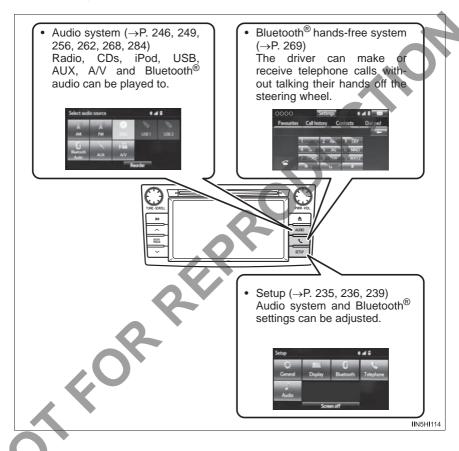
■To avoid damaging the audio system

Take care not to spill drinks or other fluids over the audio system.

Multimedia system*

Multimedia system functions

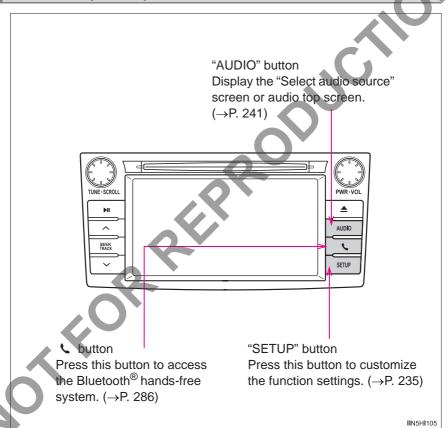
The following functions can be used on multimedia system.



Multimedia system Operations

Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.

Multimedia system operation buttons



Operating the touch screen

By touching the screen with your finger, you can control the multimedia system etc.

■ Drag*

Touch the screen with your finger, and move the screen to the desired position.

- Scrolling the lists
- Using scroll bar in lists

■ Flick*

Touch the screen with your finger and quickly move the screen by flicking your finger.

- Scrolling the main screen page
- Returning to the menu screen from the sub-menu screen (screen one level below)
- *: The above operations may not be performed on all screens.

■ When using the touch screen

- If the screen is cold, the display may be dark, or the system may seem to be operating slightly slower than normal.
- The screen may seem dark and hard to see when viewed through sunglasses. Change your angle of viewing, adjust the display on the "Display Settings" screen (→P. 239) or remove your sunglasses.

№ NOTICE

To avoid damaging the touch screen

- To prevent damaging the screen, lightly touch the screen buttons with your finger.
- Do not use objects other than your finger to touch the screen.
- Wipe off fingerprints using a glass cleaning cloth. Do not use chemical cleaners to clean the screen, as they may damage the touch screen.

Steering wheel audio switches

Some audio features can be controlled using the switches on the steering wheel.

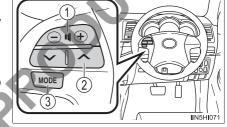
Operation may differ depending on the type of multimedia system or navigation system. For details, refer to the manual provided with the multimedia system or navigation system.

Operating the multimedia system using the steering wheel switches

- 1 Volume switch
 - Increases/decreases volume
 - Press and hold: Continuously increases/decreases volume
- (2) Cursor switch
 - Selects (radio stations/radio presets/tracks/files/songs)



- Changes audio source
- Press and hold this switch to mute or pause the current operation. To cancel the mute or pause, press and hold.



A CAUTION

■To reduce the risk of an accident

Exercise care when operating the audio switches on the steering wheel.

USB/AUX Port

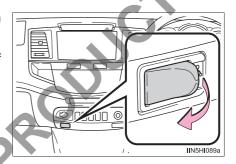
Connect an iPod, USB memory device or portable audio player to the USB/AUX port as indicated below. Select "iPod", "USB", "AUX" or "A/V" on the audio source selection screen and the device can be operated via multimedia system.

Connecting using the USB/AUX port

■ iPod

Open the cover and connect an iPod using an iPod cable.

Turn on the power of the iPod if it is not turned on



■ USB memory

Open the cover and connect the USB memory device.

Turn on the power of the USB memory device if it is not turned on.

■ Portable audio player

Open the cover and connect the portable audio player.

Turn on the power of the portable audio player if it is not turned on.

■ To use the A/V function

To operate the video functions such as VTR, a 4-pole AUX cable is necessary However, depending on the cable specifications, the video function may not work properly. For more information, contact your Toyota dealer.

To operate the iPod video, set "External video settings" to "A/V". $(\rightarrow P. 238)$



A CAUTION

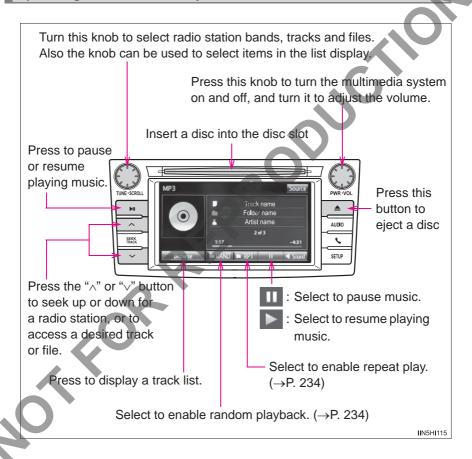
■ While driving

Do not connect a device or operate the device controls.

Basic Audio Operations

Basic audio operations and functions common to each mode are explained in this section.

Operating the multimedia system



Random playback

Select RAND to change on/off.

Repeat play

Select RPT to change on/off.

■ Using cellular phones

Interference may be heard through the audio system's speakers if a cellular phone is being used inside or close to the vehicle while the audio system is operating.



A CAUTION

Laser product

This product is a class 1 laser product.

Do not open the cover of the player or attempt to repair the unit yourself. Refer servicing to qualified personnel.

NOTICE

■ To prevent battery discharge

Do not leave the audio system on longer than necessary when the engine is off.

■ To avoid damaging the audio system

Take care not to spill drinks or other fluids on the audio system.

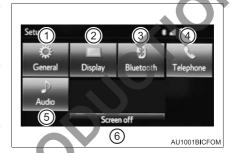
Setup menu

You can adjust the multimedia system to your desired settings.

Display "Setup" screen

Press the "SETUP" button to display the "Setup" screen.

- Select to adjust the settings for operation sounds, screen animation, etc. (→P. 236)
- ② Select to adjust the settings for contrast and brightness of the screen. (→P. 239)
- ③ Select to adjust the settings for registering, removing, connecting and disconnecting Bluetooth[®] devices. (→P. 282)



- 4 Select to adjust the settings for phone sound, contact, etc. (→P. 306)
- (5) Select to set radio and external media settings. (→P. 238)
- (6) Select to turn the screen off.

General settings

Settings are available for adjusting the operation sounds, screen animation, etc.

Screen for general settings

- 1 Press the "SETUP" button.
- Select "General" on the "Setup" screen.
 - 1 Beep

On/off can be selected to sound beeps.

(2) Color theme

Select to change the screen button color.

3 Keyboard layout

Select to change the keyboard layout.

(4) Animation

The animation effect for the screen can be set to on/off.

- Select to delete personal data (→P. 237)
- 6 Software Update

Select to update program versions. For details, contact your Toyota dealer.

Software Information

Select to display the software information. Notices related to third party software used in this product are enlisted. (This includes instructions for obtaining such software, where applicable.)

(8) Reset all setup items



Delete personal data

- 1 Select "Delete personal data" on the "General settings" screen.
- 2 Select "Delete".

Check carefully beforehand, as data cannot be retrieved once deleted.



3 A confirmation screen will be displayed. Select "Yes".

The following personal data will be deleted or changed to its default settings.

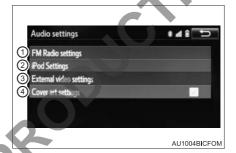
- · General settings
- · Audio settings
- Telephone settings

Audio settings

Settings are available for adjusting the radio operation, cover art, etc.

Screen for audio settings

- 1 Press the "SETUP" button.
- 2 Select "Audio" on the "Setup" screen.
 - 1) FM Radio settings (→P. 247)
 - iPod settings
 Select input video sound.
 - ③ External video settings Select video signal.
 - 4 Cover art settings



Display settings

Settings are available for adjusting the contrast and brightness of the screen.

Screen for display settings

- 1 Press the "SETUP" button.
- 2 Select "Display" on the "Setup" screen.
 - (1) Adjust screen contrast/brightness
 - (2) Adjust screen contrast/brightness of the video.
 - (3) Changes to day mode.



Day mode

When the headlights are turned on, the screen dims.

However, the screen can be switched to day mode by selecting "Day mode".

The screen will stay in day mode when the headlights are turned on until "Day mode" is selected again.

Adjusting the screen contrast/brightness

- 1 Select "General" or "Video" on the "Display settings" screen.
- 2 Adjust the display as desired by selecting "+" or "-".



Selecting the audio source

Switching between audio sources such as radio and CD are explained in this section.

Changing audio source

1 Press the "AUDIO" button to display the audio source selection screen.

If the audio source selection screen is not displayed, press the "AUDIO" button again.

2 Select the desired audio source.



Reordering the audio source

- 1 Select "Reorder".
- 2 Select the desired audio source then or to reorder.

Using the steering wheel switches to change audio source

The audio source changes as follows each time the "MODE" switch is pressed.

List screen operation

When a list screen is displayed, use the appropriate buttons to scroll through the list.

How to scroll



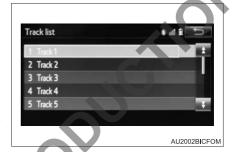
Select to scroll to the next or previous page.

<u>.</u>:

If papears to the right of titles, the complete titles are too long for the display. Select this button to scroll the title.

Turn the "TUNE/SCROLL" knob to move the cursor box to select a desired item from the list, and press the "TUNE/SCROLL" knob to play it. The track that is being played is highlighted.

To return to the top screen, select "Now Playing" on the list screen.



Selecting, fast-forwarding and reversing tracks/files/songs

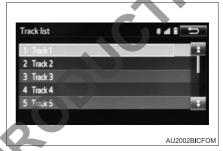
■ Selecting a track/file/song

Press the "\" or "\" button on "SEEK/TRACK" or turn the "TUNE/ SCROLL" knob to select the desired track/file/song number.

To fast-forward or reverse, press and hold the "∧" or "∨" button on "SEEK/TRACK".

■ Selecting a track/file/song from the track/file/song list

- 1 Select "Browse" or cover art.
- 2 Select the desired track/file/song.



When an MP3/WMA/AAC disc or USB memory device is being used, the folder can be selected. When a Bluetooth[®] device or iPod is being used, the album can be selected.

According to the audio device, the following is displayed.

Audio source	List name
Audio CD	Track
MP3/WMA/AAC disc, USB	Folder, File
Bluetooth [®]	Album, Track
iPod	Album, Song, Video

Optimal use of the audio system

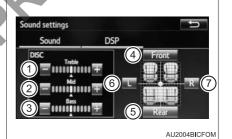
On the "Sound settings" screen, sound quality (Treble/Mid/Bass), volume balance and ASL settings can be adjusted.

How to adjust the sound settings and sound quality

- ▶ Tone and balance
- 1 Select "Sound" to adjust the sound settings.
- 2 Select "Sound" tab.



- 123 Select "-" or "+" to adjust the treble, mid or bass to a level between -5 and 5.
- (4) (5) Select "Front" or "Rear" to adjust the front/rear audio balance to a level between Front 7 and Rear 7.
- 6 7 Select "L" or "R" to adjust the left/right audio balance to a level between L7 and R7.



- ► Automatic sound leveliser (ASL) (type A)
- 1 Select "DSP" tab.
- 2 Select "High", "Middle", "Low" or "Off".



- ► Automatic sound leveliser (ASL) (type B)
- 1 Select "DSP" tab.
- 2 Select "Automatic sound leveliser".
- 3 Select "On" or "Off".
 - ► Surround (type B)
- 1 Select "DSP" tab.
- 2 Select "Surround leveliser"
- 3 Select "On" or "Off".

■ The sound quality level is adjusted individually

The treble, mid and bass levels can be adjusted for each audio mode separately.

■ About Automatic Sound Leveliser (ASL)

ASL automatically adjusts the volume and tone quality according to the vehicle speed.

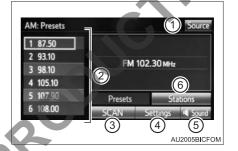
Radio operation

Select "AM" or "FM" the audio source selection screen to begin listening to the radio.

Audio control screen

Pressing the "AUDIO" button displays the audio control screen from any screens of the selected source.

- 1 Audio source selection screen appears
- (2) Preset stations
- 3 Scanning for receivable station
- (4) Radio settings
- (5) Setting the sound (\rightarrow P. 244)
- 6 Select to display a list of receivable stations



Selecting a station

Tune in to the desired station using one of the following methods.

■ Seek tuning

Press the "\" or "\" button on "SEEK/TRACK".

The radio will begin seeking up or down for a station of the nearest frequency and will stop when a station is found.

■ Manual tuning

Turn the "TUNE/SCROLL" knob.

Preset stations

Select the desired preset station.

Setting station presets

- 1 Search for desired stations by turning the "TUNE/SCROLL" knob or pressing the "∧" or "∨" button on "SEEK/TRACK".
- 2 Select "add new".

To change the preset station to a different one, select and hold the preset station.

- 3 Select "Yes".
- 4 Select "OK" after setting the new preset station.

■ Refreshing the station list

1 Select "Refresh" on the "Station list" screen.

To cancel the refresh, select "Cancel refresh".

RDS (Radio Data System)

Depending on the availability of RDS infrastructure, the service may not function properly.

FM settings

- 1 Display the "Setup" screen. (→P. 235)
- 2 Select "FM Radio settings".
 - (1) FM radio text on/off



■ Reception sensitivity

- Maintaining perfect radio reception at all times is difficult due to the continually changing position of the antenna, differences in signal strength and surrounding objects, such as trains, transmitters, etc.
- Short pole type antenna:

The radio antenna is mounted on the roof. The antenna can be removed from the base by turning.

Pillar type antenna:

The radio antenna is mounted on the pillar. To lower the antenna, carefully push it down.

CD player operation

Insert disc or select "CD" on the audio source selection screen with a disc inserted to begin listening to a CD.

Audio control screen

Pressing the "AUDIO" button displays the audio control screen from any screens of the selected source.

- 1) Audio source selection screen appears
- 2 Displaying the track/file list
 - MP3/WMA/AAC Displaying the folder list
- (3) Random playback (→P. 234)
- 4 Repeat play (→P. 234)
- 5 PauseSelect to resume play
- 6 Setting the sound (→P. 244



■ Displaying the title and artist name

If a CD-TEXT disc is inserted, the title of the disc and track will be displayed.

■ Error messages

If an error message is displayed, refer to the following table and take the appropriate measures. If the problem is not rectified, take the vehicle to your Toyota dealer.

Message	Cause	Correction procedures
"Check DISC"	 The disc is dirty or damaged. The disc is inserted upside down. The disc is not playable with the player. 	 Clean the disc. Insert the disc correctly. Confirm the disc is playable with the player.
"Disc Error"	There is a malfunction within the system.	Eject the disc.
"No music files found."	No playable data is included on the disc.	Eject the disc.

■ Discs that can be used

Discs with the marks shown below can be used.

Playback may not be possible depending on recording format or disc features, or due to scratches, dirt or deterioration.









CDs with copy-protection features may not play correctly.

■CD player protection feature

To protect the internal components, playback is automatically stopped when a problem is detected.

If a disc is left inside the CD player or in the ejected position for extended periods

Disc may be damaged and may not play properly.

■ Lens cleaners

Do not use lens cleaners. Doing so may damage the CD player.

■ MP3, WMA and AAC files

MP3 (MPEG Audio LAYER3) is a standard audio compression format.

Files can be compressed to approximately 1/10 of their original size by using MP3 compression.

WMA (Windows Media Audio) is a Microsoft audio compression format.

This format compresses audio data to a size smaller than that of the MP3 format.

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG2 and MPEG4.

MP3, WMA and AAC file and media/formats compatibility are limited.

- MP3 file compatibility
 - Compatible standards
 MP3 (MPEG1 LAYER3, MPEG2 LSF LAYER3)
 - Compatible sampling frequencies
 MPEG1 LAYER3: 32, 44.1, 48 (kHz)
 MPEG2 LSF LAYER3: 16, 22.05, 24 (kHz)
 - Compatible bit rates (compatible with VBR) MPEG1 LAYER3: 32-320 (kbps)

MPEG2 LSF LAYER3: 8-160 (kbps)

- Compatible channel modes: stereo, joint stereo, dual channel and monaural
- WMA file compatibility
 - Compatible standards WMA Ver. 7, 8, 9
 - Compatible sampling frequencies 32, 44.1, 48 (kHz)
 - Compatible bit rates (only compatible with 2-channel playback)

Ver. 7, 8: CBR 48-192 (kbps)

Ver. 9: CBR 48-320 (kbps)

- AAC file compatibility
 - Compatible standards MPEG4/AAC-LC
 - Compatible sampling frequencies 11.025/12/16/22.05/24/32/44.1/48 (kHz)
 - Compatible bit rates 16-320 (kbps)
- Compatible media

Media that can be used for MP3, WMA and AAC playback are CD-Rs and CD-RWs.

Playback in some instances may not be possible if the CD-R or CD-RW is not finalized. Playback may not be possible or the audio may jump if the disc is scratched or marked with fingerprints.

Compatible disc formats

The following disc formats can be used.

- · Disc formats:
 - CD-ROM Mode 1 and Mode 2 CD-ROM XA Mode 2, Form 1 and Form
- · File formats:

ISO9660 Level 1, Level 2, (Romeo, Joliet)

UDF (2.01 or lower)

MP3, WMA and AAC files written in any format other than those listed above may not play correctly, and their file names and folder names may not be displayed correctly.

Items related to standards and limitations are as follows.

- Maximum directory hierarchy: 8 levels (including the root)
- Maximum length of folder names/file names: 32 characters
- Maximum number of folders: 192 (including the root)
- Maximum number of files per disc: 255
- File names

The only files that can be recognized as MP3/WMA/AAC and played are those with the extension .mp3, .wma or .m4a.

Discs containing multi-session recordings

As the audio system is compatible with multi session discs, it is possible to play discs that contain MP3, WMA and AAC files. However, only the first session can be played.

ID3, WMA and AAC tags

ID3 tags can be added to MP3 files, making it possible to record the track title, artist name, etc.

The system is compatible with ID3 Ver. 1.0, 1.1, and Ver. 2.2, 2.3 ID3 tags. (The number of characters is based on ID3 Ver. 1.0 and 1.1.)

WMA tags can be added to WMA files, making it possible to record the track title and artist name in the same way as with ID3 tags.

AAC tags can be added to AAC files, making it possible to record the track title and artist name in the same way as with ID3 tags.

MP3, WMA and AAC playback

When a disc containing MP3, WMA or AAC files is inserted, all files on the disc are first checked. Once the file check is finished, the first MP3, WMA or AAC file is played. To make the file check finish more quickly, we recommend you do not write any files to the disc other than MP3, WMA or AAC files or create any unnecessary folders.

Discs that contain a mixture of music data and MP3, WMA or AAC format data cannot be played.

Extensions

If the file extensions .mp3, .wma and .m4a are used for files other than MP3, WMA and AAC files, they may be mistakenly recognized and played as MP3, WMA and AAC files. This may result in large amounts of interference and damage to the speakers.

Playback

- To play MP3 files with steady sound quality, we recommend a fixed bit rate of at least 128 kbps and a sampling frequency of 44.1 kHz.
- CD-R or CD-RW playback may not be possible in some instances, depending on the characteristics of the disc.
- There is a wide variety of freeware and other encoding software for MP3, WMA and AAC files on the market, and depending on the status of the encoding and the file format, poor sound quality or noise at the start of playback may result. In some cases, playback may not be possible at all.
- When files other than MP3, WMA or AAC files are recorded on a disc, it
 may take more time to recognize the disc and in some cases, playback
 may not be possible at all.
- Microsoft, Windows, and Windows Media are the registered trademarks of Microsoft Corporation in the U.S.A. and other countries.



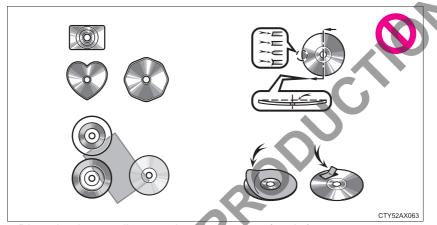
NOTICE

■ Discs and adapters that cannot be used

Do not use the following types of CDs.

Also, do not use 8 cm (3 in.) CD adapters, DualDiscs or printable discs.

Doing so may damage the CD player and/or the CD insert/eject function.



- Discs that have a diameter that is not 12 cm (4.7 in.).
- Low-quality or deformed discs.
- Discs with a transparent or translucent recording area.
- Discs that have tape, stickers or CD-R labels attached to them, or that have had the label peeled off.

■ Player precautions

Failure to follow the precautions below may result in damage to the discs or the player itself.

- Do not insert anything other than discs into the disc slot.
- Do not apply oil to the player.
- Store discs away from direct sunlight.
- Never try to disassemble any part of the player.

Listening to an iPod

Connecting an iPod enables you to enjoy music from the vehicle speakers.

Select "iPod" on the audio source selection screen.

Connecting an iPod

→P. 232

Audio control screen

Pressing the "AUDIO" button displays the audio control screen from any screens of the selected source.

- 1 Audio source selection screen appears
- 2 Setting the sound (\rightarrow P. 244)
- 3 Pause Select to resume playback
- (4) Repeat play (→P. 257)
- Shuffle play (→P. 257)
- 6 Selecting the play mode (→P. 257)
- (7) Displays cover art



Selecting a play mode

1 Select "Browse" on the screen.



2 Select the desired play mode by selecting the "Playlists", "Artists", "Albums", "Songs", "Podcasts", "Audio books", "Genres", "Composers" or "Videos" tab. Then select a song to begin using the selected play mode.

Shuffle play

Select to change on/off.

Repeat play

Select to change on/off.

■ About iPod



- "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.
- iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

■iPod cover art

- Depending on the iPod and songs in the iPod, iPod cover art may be displayed.
- This function can be changed to on/off. (→P. 238)
- It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process.
- Only iPod cover art that is saved in JPEG format can be displayed.

■ iPod functions

- When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used.
- Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it may resolve the problem.

- While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead.
- When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use.
- Compatible models (→P. 260)

■iPod problems

To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it. For instructions on how to reset your iPod, refer to your iPod Owner's Manual.

■ Error messages

Message	Cause/Correction procedures		
"iPod error."	This indicates a problem in the iPod or its connection.		
"No music files found."	This indicates that there is no music data in the iPod.		
"No video files found."	This indicates that no video files are included in the iPod.		
"There are no songs available for playback. Please add compatible files to your iPod."	This indicates that songs are not found in a selected playlist.		
"Please check the iPod firm- ware version."	This indicates that the software version is not compatible. Please check the compatible models. $(\rightarrow P. 260)$		
"iPod authorization unsuccessful."	This indicates that the display audio system failed to authorize the iPod. Please check your iPod.		

■ Compatible models

The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.

Made for

- iPod touch (5th generation)
- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod nano (7th generation)
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone 5
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

Depending on differences between models or software versions etc., some models might be incompatible with this system.



A CAUTION

■ While driving

Do not connect an iPod or operate the controls.

⚠ NOTICE

- To prevent damage to the iPod or its terminals
 - Do not leave the iPod in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the iPod.
 - Do not push down on or apply unnecessary pressure to the iPod while it is connected.
 - Do not insert foreign objects into the port.

Listening to a USB memory device

Connecting a USB memory device enables you to enjoy music from the vehicle speakers.

Touch "USB" on the audio source selection screen.

Connecting a USB memory device

→P. 232

Audio control screen

Pressing the "AUDIO" button displays the audio control screen from any screens of the selected source.

- 1 Audio source selection screen appears
- (2) Audio setting
- (3) Displaying the folder list
- (4) Random playback (→P. 234)
- (5) Repeat play (→P. 234)
- 6 Pause

Select to resume playback

(7) Setting the sound (→P. 244)



■USB memory functions

- Depending on the USB memory device that is connected to the system, the device itself may not be operable and certain functions may not be available. If the device is inoperable or a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it may resolve the problem.
- If the USB memory device still does not begin operation after being disconnected and reconnected, format the memory.

■Error messages for USB memory

Message	Cause/Correction procedures		
"USB error."	This indicates a problem with the USB memory device or its connection.		
"No music files found."	This indicates that no MP3/WMA/AAC files are included on the USB memory device.		

■USB memory

Compatible devices

USB memory device that can be used for MP3, WMA and AAC playback.

Compatible device formats

The following device format can be used:

- USB communication format: USB2.0 FS (12 Mbps)
- File system format: FAT16/32 (Windows)
- Correspondence class: Mass storage class

MP3, WMA and AAC files written to a device with any format other than those listed above may not play correctly, and their file names and folder names may not be displayed correctly.

Items related to standards and limitations are as follows:

- Maximum directory hierarchy: 8 levels
- Maximum number of folders in a device: 3000 (including the root)
- Maximum number of files in a device: 9999
- Maximum number of files per folder: 255
- MP3, WMA and AAC files

MP3 (MPEG Audio LAYER 3) is a standard audio compression format. Files can be compressed to approximately 1/10 of their original size using MP3 compression.

WMA (Windows Media Audio) is a Microsoft audio compression format.

This format compresses audio data to a size smaller than that of the MP3 format.

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG2 and MPEG4.

MP3, WMA and AAC file and media/formats compatibility are limited.

- MP3 file compatibility
 - Compatible standards
 MP3 (MPEG1 AUDIO LAYERII, III, MPEG2 AUDIO LAYERII, III,
 MPEG2.5)
 - Compatible sampling frequencies
 MPEG1 AUDIO LAYERII, III: 32, 44.1, 48 (kHz)
 MPEG2 AUDIO LAYERII, III: 16, 22.05, 24 (kHz)
 - Compatible bit rates (compatible with VBR)
 MPEG1 AUDIO LAYERII, III: 32-320 (kbps)
 MPEG2 AUDIO LAYERII, III: 8-160 (kbps)
 - Compatible channel modes: stereo, joint stereo, dual channel and monaural
- WMA file compatibility
 - Compatible standards WMA Ver. 7, 8, 9
 - Compatible sampling frequencies HIGH PROFILE 32, 44.1, 48 (kHz)
 - Compatible bit rates
 HIGH PROFILE 48-320 (kbps, VBR)
- AAC file compatibility
 - Compatible standards MPEG4/AAC-LC
 - Compatible sampling frequencies 11.025/12/16/22.05/24/32/44.1/48 (kHz)
 - Compatible bit rates 16-320 (kbps)
 - Compatible channel modes: 1 ch and 2 ch
- File names

The only files that can be recognized as MP3/WMA/AAC and played are those with the extension .mp3 or .wma.

ID3, WMA and AAC tags

ID3 tags can be added to MP3 files, making it possible to record the track title, artist name, etc.

The system is compatible with ID3 Ver. 1.0, 1.1, and Ver. 2.2, 2.3, 2.4 ID3 tags. (The number of characters is based on ID3 Ver. 1.0 and 1.1.)

WMA tags can be added to WMA files, making it possible to record the track title and artist name in the same way as with ID3 tags.

AAC tags can be added to AAC files, making it possible to record the track title and artist name in the same way as with ID3 tags.

MP3, WMA and AAC playback

- When a device containing MP3, WMA and AAC files is connected, all files in the USB memory device are checked. Once the file check is finished, the first MP3, WMA and AAC file is played. To make the file check finish more quickly, we recommend that you do not include any files other than MP3, WMA and AAC files or create any unnecessary folders.
- When a USB memory device is connected and the audio source is changed to USB memory mode, the USB memory device will start playing the first file in the first folder. If the same device is removed and reconnected (and the con- tents have not been changed), the USB memory device will resume play from the same point in which it was last used.

Extensions

If the file extensions .mp3, .wma and .m4a are used for files other than MP3, WMA and AAC files, they will be skipped (not played).

Playback

- To play MP3 files with steady sound quality, we recommend a fixed bit rate of at least 128 kbps and a sampling frequency of 44.1 kHz.
- There is a wide variety of freeware and other encoding software for MP3, WMA and AAC files on the market, and depending on the status of the encoding and the file format, poor sound quality or noise at the start of playback may result. In some cases, playback may not be possible at all.
- Microsoft, Windows, and Windows Media are the registered trademarks
 of Microsoft Corporation in the U.S.A. and other countries.



A CAUTION

■ While driving

Do not connect a USB memory device or operate the device controls.



NOTICE

■ To prevent damage to the USB memory device or its terminals

- Do not leave the USB memory device in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the USB memory device.
- Do not push down on or apply unnecessary pressure to the USB memory device while it is connected.
- Do not insert foreign objects into the port.

Using the AUX port

To use the AUX port, connect a portable player, press the "AUDIO" button, then select "AUX" or "A/V" to display the audio control screen.

Connecting a portable audio player

→P. 232

Operating portable audio players connected to the audio system

The volume can be adjusted using the vehicle's audio controls. All other adjustments must be made on the portable audio player itself.

■ When using a portable audio player connected to the power outlet

Noise may occur during playback. Use the power source of the portable audio player.



A CAUTION

While driving

Do not connect a portable audio player or operate the device controls.

Preparations to use wireless communication

The following can be performed using Bluetooth® wireless communication:

- A portable audio player can be operated and listened to via multimedia system
- Hands-free phone calls can be made via a cellular phone In order to use wireless communication, register and connect a Bluetooth[®] device by performing the following procedures.

Device registration/connection flow

 Register the Bluetooth[®] device to be used with multimedia system (→P. 272, 273, 274)



 Connect the Bluetooth[®] device to be used (→P. 277)

To be used for audio



Start Bluetooth[®] connection (→P. 277)



 Check connection status (→P. 284)



5. Use Bluetooth[®] audio (→P. 284)

To be used for hands-free phone





Check connection status (→P. 288)

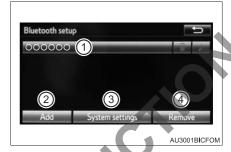


Use Bluetooth[®] phone (→P. 286)

Registering and connecting from the "Bluetooth* setup" screen

To display the screen shown below, press the "SETUP" button and select "Bluetooth*" on the "Setup" screen.

- Select to connect the device to be used with multimedia system. (→P. 277)
- ② Select to register a Bluetooth[®] device to be used with multimedia system. (→P. 274)
- ③ Select to set detailed Bluetooth[®] system settings. (→P. 282)



- ④ Select to delete registered devices. (→P. 276)
 - *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Registering a Bluetooth[®] audio player for the first time

To use the Bluetooth[®] Audio, it is necessary to register an audio player with the system.

Once the player has been registered, it is possible to use the Bluetooth[®] Audio.

For details about registering a Bluetooth® device (→P. 274)

- 1 Turn the Bluetooth® connection setting of your audio player on.
- 2 Press the "AUDIO" button.
- 3 Select "Bluetooth* audio".
- 4 Select "Connect".
- 5 Follow the steps in "How to registering a Bluetooth® device" from "STEP 2". (→P. 274)
 - *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Registering a Bluetooth® phone for the first time

To use the hands-free system, it is necessary to register a Bluetooth[®] phone with the system.

Once the telephone has been registered, it is possible to use the hands-free system.

For details about registering a Bluetooth[®] device (→P. 274)

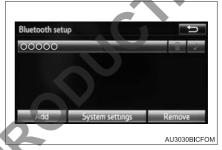
- 1 Turn the Bluetooth® connection setting of your cellular phone on.
- 2 Press the " 📞 " button.
- 3 Select "OK" to register a telephone.
- 4 Follow the steps in "How to registering a Bluetooth® device" from "STEP 2". (→P. 274)

Registering a Bluetooth® device

Bluetooth[®] compatible phones (HFP) and portable audio players (AVP) can be registered simultaneously. You can register up to 5 Bluetooth[®] devices.

How to register a Bluetooth® device

- 1 Display the "Bluetooth* setup" screen. (→P. 271)
- 2 Select "Add".



- *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- When this screen is displayed, search for the device name displayed on this screen on the screen of your Bluetooth® device.

For details about operating the Bluetooth[®] device, see the manual that comes with it.

To cancel the registration, select "Cancel".



Register the Bluetooth® device using your Bluetooth® device.

A PIN-code is not required for SSP (Secure Simple Pairing) compatible Bluetooth[®] devices. Depending on the type of Bluetooth[®] device being connected, a message confirming registration may be displayed on the Bluetooth[®] device's screen. Respond and operate the Bluetooth[®] device according to the confirmation message.

5 Check that the following screen is displayed when registration is complete.



6 Select "OK" when the connection status changes from "Connecting..." to "Connected".

If an error message is displayed, follow the guidance on the screen to try again.

Registration can be performed from screens other than the "Bluetooth* setup" screen.

- When registering from the "Bluetooth* audio" screen
 - 1 Display the "Bluetooth* audio" screen. (→P. 241)
 - 2 Select "Connect".

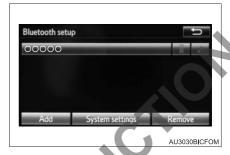
Following this, Bluetooth® registration can be performed in the same manner as step 3 on page 274.

*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.



Deleting a Bluetooth® device

- 1 Display the "Bluetooth* setup" screen. (→P. 271)
 - *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- 2 Select "Remove".



3 Select the desired device.



- 4 A confirmation message will be displayed, select "Yes" to delete the device.
- 5 Check that a confirmation screen is displayed when the operation is complete.

Connecting a Bluetooth® device

Up to 5 Bluetooth[®] devices (Telephones (HFP) and audio players (AVP)) can be registered.

If more than 1 Bluetooth[®] device has been registered, select which device to connect to.

- 1 Press the "SETUP" button.
- 2 Select "Bluetooth*".
- *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- 3 Select the device to be connected.

Supported profile icons will be displayed.

- 1 Telephone
- 2 Audio player

Supported profile icons for currently connected devices will illuminate.

Dimmed icons can be selected to connect to the function directly.



Auto connection

To turn auto connection mode on, set "Bluetooth* power" to on. $(\rightarrow P. 282)$

When you register a telephone, auto connection will be activated. Always set it to this mode and leave the Bluetooth[®] phone in a place where a connection can be established.

When the engine switch is turned to the "ACC" or "ON" position, the system will search for a nearby cellular phone you have registered.

Next, the system automatically connects with the most recent of the telephones connected to in the past. Then, the connection result is displayed.

Manual connection

When auto connection has failed or "Bluetooth" power" is turned off, you must connect the Bluetooth® device manually.

- *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- 1 Follow the steps in "Connecting a Bluetooth® device" from "STEP 2". (→P. 277)

Connecting a Bluetooth® audio player

- Registering an additional device
- 1 Select "Select device" on the Bluetooth® audio control screen.
- 2 For more information: →P. 274
- Selecting a registered device
- 1 Select "Select device" on the Bluetooth® audio control screen.
- 2 For more information: \rightarrow P. 277

■ Reconnecting a Bluetooth[®] phone

If the system cannot connect due to poor signal strength with the engine switch in the "ACC" or "ON" position, the system will automatically attempt to reconnect.

If the telephone is turned off, the system will not attempt to reconnect. In this case, the connection must be made manually, or the telephone must be reselected.

Displaying a Bluetooth[®] device details

You can confirm and change the registered device details.

Bluetooth® device registration status

- 1 Display the "Bluetooth* setup" screen. (→P. 271)
 - *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.
- 2 Select the device.
- 3 Select "Device info".
- 4 Following screen is displayed:
 - 1 Device name
 - ② Change connection method(→P. 281)
 - (3) Bluetooth® address
 - 4 Display your telephone number
 The number may not be displayed depending on the model of telephone.
 - 5 Compatibility profile of the device
 - 6 Restore default settings



Changing connection method

- 1 Select "Connect audio player from".
- 2 Select "Vehicle" or "Device".

"Vehicle": Connect the audio system to the portable audio player.

"Device": Connect the portable audio player to the audio system

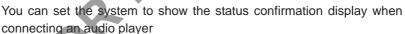


Detailed Bluetooth® system settings

You can confirm and change the detailed Bluetooth® settings.

How to check and change detailed Bluetooth® settings

- 1 Display the "Bluetooth* setup" screen. (→P. 271)
- 2 Select "System settings".
- The following screen is displayed:
 - Bluetooth® power on/off
 You can change Bluetooth®
 function on/off
 - (2) Bluetooth® name
 - ③ Change PIN-code (→P. 283)
 - (4) Bluetooth address
 - 5 Display telephone status You can set the system to show the status confirmation display when connecting a telephone
 - 6 Display audio player status



- 7 Compatibility profile of the system
- 8 Restore default settings
- *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.



Editing the Bluetooth* PIN

You can change the PIN-code that is used to register your Bluetooth[®] devices in the system.

- 1 Select "Bluetooth* PIN".
- 2 Input a PIN-code, and select "OK".
 - *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.



Listening to Bluetooth[®] Audio

The Bluetooth[®] audio system enables the user to enjoy music played on a portable player from the vehicle speakers via wireless communication.

When a Bluetooth[®] device cannot be connected, check the connection status on the "Bluetooth* audio" screen. If the device is not connected, either register or reconnect the device. (→P. 277)

*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Status display

You can check such indicators as signal strength and battery charge on the screen.

- 1 Battery charge
- (2) Connection status



Indicators	Conditions		
Connection status	Good <		Not connected
Connection status	*	*	* /
Battery charge	Full 🚤		> Empty
			Û

Playing Bluetooth[®] audio

Select or II to Play/Pause.

For details on "Bluetooth* audio" screen operation methods, refer to Basic Audio Operations. (→P. 233)

For details on how to select a track or album, refer to selecting, fast-forwarding and reversing tracks/files/songs. (→P. 243)

*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Using a Bluetooth® Phone

The hands-free system is a function that allows you to use your cellular phone without touching it.

This system supports Bluetooth[®]. Bluetooth[®] is a wireless data system that allows the cellular phone to wirelessly connect to the hands-free system and make/receive calls.

Before making a telephone call, check the connection status, battery charge, call area and signal strength. $(\rightarrow P. 288)$

If a Bluetooth[®] device cannot be connected, check the connection status on the telephone top screen. If the device is not connected, either register or reconnect it. (→P. 277)

Telephone top screen

To display the screen shown below, press the **\cup** button.

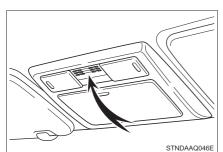
Several functions are available to operate on each screen that is displayed by selecting the 4 tabs.

- 1 Device name
- (2) Bluetooth® connection status
- (3) Select to make a call

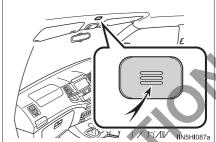


■ Microphone

▶ Type A



▶ Type B



The vehicle's built in microphone is used when talking on the phone. The person you are speaking to can be heard from the front speakers.

To use the hands-free system, you must register your Bluetooth[®] phone in the system. (\rightarrow P. 274)

Status display

You can check indicators such as signal strength and battery charge on the telephone top screen.



Indicators	Conditions	
① Connection status	Good	Not connected
	*	√
② Signal strength	Excellent	Poor
③ Battery charge	Full	Empty
		→ <u> </u>

Making a call

Once a Bluetooth[®] phone is registered, you can make a call using the following procedure:

Dialing

- 1 Display the telephone top screen. (→P. 286)
- 2 Select the "Dial pad" tab and enter a telephone number.

To delete the input telephone number, select .

For the first digit, you can enter "+" by selecting "*" for a while.



Dialing from the contacts list

You can dial a number from the contact data imported from your cellular phone. The system has one contact for each registered telephone. Up to 2500 contacts may be stored in each contact. (\rightarrow P. 290)

- 1 Display the telephone top screen. (→P. 286)
- 2 Select "Contacts" tab.
- 3 Choose the desired contact to call from the list.



4 Choose the number and then select .



When the contact is empty

You can transfer the telephone numbers in a Bluetooth[®] phone to the system.

Operation methods differ between PBAP (Phone Book Access Profile) compatible and PBAP incompatible Bluetooth[®] phones. If the cellular phone does not support either PBAP or OPP (Object Push Profile) service, you cannot transfer contacts.

■ For PBAP compatible Bluetooth® phones

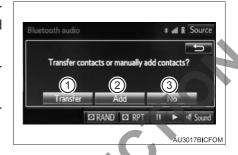
When "Automatic contact/history transfer" is set to off

- Select the desired item.
 - Select to transfer new contacts from a cellular phone, select "Always" and then enable "Automatic transfer".
 - Select to transfer all the contacts from a connected cellular phone only once.
 - 3 Select to cancel transferring.



■ For PBAP incompatible but OPP compatible Bluetooth[®] phones

- 1 Select the desired item.
 - Select to transfer the contacts from the connected cellular phone.
 - Select to add a new contact manually.
 - 3 Select to cancel transferring.



- ▶ When "Transfer" is selected
- 2 Follow the steps in "Update contacts from phone" from "STEP2". (→P. 307)
 - ▶ When "Add" is selected
- 2 Follow the steps in "Registering a new contact to the contacts list" from "STEP2". (→P. 309)

Calling using favorites list

You can make a call using numbers registered in the contact.

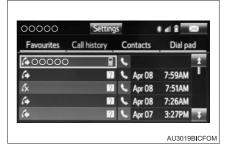
- 1 Display the telephone top screen. (→P. 286)
- 2 Select "Favorites" tab.
- 3 Select the desired number to make a call.



Dialing from call history

You can make a call using the call history, which has the 3 functions below.

- ★ : calls which you missed
- : calls which you received
- : calls which you made
- 1 Display the telephone top screen. (→P. 286)
- 2 Select "Call History" tab.
- 3 Select or the desired entry from the list.



- ▶ When is selected
- 4 Check that the "Call" screen is displayed.
- ▶ When the desired contact is selected
- 4 Select the desired number.
- 5 Check that the "Call" screen is displayed.

■ Call history list

- If you make a call to or receive a call from a number registered in the con tact, the name is displayed in the call history.
- If you make multiple calls to the same number, only the last call made is displayed in the call history.

■International calls

You may not be able to make international calls, depending on the mobile phone in use.



Receiving a call

When a call is received, the following screen is displayed together with a sound.

To answer the telephone

Select .



To refuse a call

Select ____.

To adjust the incoming call volume

Turn the "PWR•VOL" knob. You can also adjust the volume using the steering switches.

■ International calls

Received international calls may not be displayed correctly depending on the cellular phone in use.

Speaking on the telephone

The following screen is displayed when speaking on the telephone.



To adjust the call volume

Select "-" or "+". You can also adjust the volume using the steering switches or the volume knob.

To prevent the other party from hearing your voice

Select "Mute".

Inputting tones

When using telephone services such as an answering service or a bank, you can store telephone numbers and code numbers in the contact.

- 1 Select "0-9".
- 2 Input the number.



■ Release Tones

"Release tones" appear when a continuous tone signal(s) containing a (w) is registered in the contact list. This operation can be performed while driving.

1 Select "Release tones".

■ Release tones

- A continuous tone signal is a character string that consists of numbers and the characters p or w. (e.g.056133w0123p#1*)
- When the "p" pause tone is used, the tone data up until the next pause tone will be automatically sent after 2 seconds have elapsed. When the "w" pause tone is used, the tone data up until the next pause tone will be automatically sent after a user operation is performed.
- Release tones can be used when automated operation of a telephone based service such as an answering machine or bank telephone service is desired. A telephone number with continuous tone signals can be registered in the contact list.

To transfer a call

Select "Handset mode" to on from a hands-free call to a cellular phone call.

Select "Handset mode" to off from a cellular phone call to a hands-free call.

Transmit volume setting

- 1 Select "Transmit volume".
- 2 Select the desired level for the transmit volume.
- 3 Select "OK".

To hang up

Select ____.

Call waiting

When a call is interrupted by a third party while talking, an incoming call message will be displayed.

To talk with the other party:

Select <a>____.

To refuse the call:

Select ____.



Every time you select during call waiting, you will be switched to the other party.

■ Transferring calls

- It is not possible to transfer from hands-free to the cellular phone while driving.
- If you transfer from the cellular phone to hands-free, the hands-free screen will be displayed, and you can operate the system using the screen.
- Transfer method and operation may vary according to the cellular phone used.
- For operation of the cellular phone in use, see the telephone's manual.

■ Call waiting operation

Call waiting operation may differ depending on your telephone company and cellular phone.

Bluetooth[®] phone message function

Received messages can be forwarded from the connected $Bluetooth^{\otimes}$ phone, enabling checking and replying using the multimedia system.

Depending on the type of Bluetooth[®] phone connected, received messages may not be transferred to the message inbox.

If the telephone does not support the message function, this function cannot be used.

Displaying "Message inbox" screen.

- 1 Press the "SETUP" button.
- 2 Select "Telephone".
- 3 Select ⋈.

Receiving a message

When an e-mail/SMS/MMS is received, the incoming message screen pops up with sound and is ready to be operated on the screen.

- (1) Select to check the message.
- 2 Select to refuse the message.
- 3 Select to call the message sender.



■ Receiving a message

- Depending on the cellular phone used for receiving messages, or its registration status with the navigation system, some information may not be displayed.
- The pop up screen is separately available for incoming e-mail and SMS/ MMS messages under the following conditions:

E-mail:

- "Incoming e-mail display" is set to "Full screen". (→P. 314)
- "E-mail notification popup" is set to on. (→P. 314)

SMS/MMS:

- "Incoming SMS/MMS display" is set to "Full screen". (→P. 314)
- "SMS/MMS notification popup" is set to on. (→P. 314)

Checking the messages

This operation cannot be performed while driving.

- 1 Display the "Message inbox" screen. (→P. 299)
- 2 Select the desired message from the list.
- 3 Check that the message is displayed.
 - 1 E-mails: Select "Mark unread" or "Mark read" to mark mail unread or read on the message inbox screen.

This function is available when "Update message read status on phone" is set to on (→P. 314)



- (2) Select to make a call to the sender.
- 3 Select to display the previous or next message.
- 4 Select to reply the message

■ Check the messages

- Depending on the type of Bluetooth[®] phone being connected, it may be necessary to perform additional steps on the telephone.
- Messages are displayed in the appropriate connected Bluetooth® phone's registered mail address folder.
 - Select the tab of the desired folder to be displayed.
- Only received messages on the connected Bluetooth® phone can be displayed.
- The text of the message is not displayed while driving.

Replying to a message

- 1 Display the "Message inbox" screen. (\rightarrow P. 299)
- 2 Select the desired message from the list.
- 3 Select "Quick message".
- 4 Select the desired message.
- 5 Select "Send".

■ Editing quick reply message

This operation cannot be performed while driving.

- 1 Select "Quick message".
- Select corresponding to the desired message to edit.
- 3 Select "OK" when editing is completed.

Calling the message sender

Calls can be made to an e-mail/SMS/MMS message sender's telephone number.

This operation can be performed while driving.

- 1 Display the "Message inbox" screen. (→P. 299)
- 2 Select the desired message.
- 3 Select .
- 4 Check that the "Call" screen is displayed.
- Calling from a number within a message

Calls can be made to a number identified in a message's text area.

This operation cannot be performed while driving.

- 1 Display the "Message inbox" screen. (\rightarrow P. 299)
- 2 Select the desired message.
- 3 Select the text area.
- 4 Select corresponding to the desired number.
- 5 Check that the "Call" screen is displayed.
- Calling from the incoming message screen

→P. 297



Bluetooth[®] phone settings

You can adjust the hands-free system to your desired settings.

"Telephone/message settings" screen

To display the screen shown below, press the "SETUP" button, and select "Telephone" on the "Setup" screen.

- (1) Connect telephone (→P. 274)
- ② Sound settings (→P. 305)
- ③ Contact/call history settings (→P. 306)
- (4) Messaging settings (→P. 314)
- (5) Telephone display settings(→P. 315)



Sound setting

- 1 Display the "Telephone/message settings" screen. (→P. 304)
- 2 Select "Sound settings" on the "Telephone/message settings" screen.
 - 1) Set the desired ringtone.
 - 2 Adjust the ringtone volume.
 - Adjust the message readout volume.
 - 4 Set the desired incoming SMS/MMS tone.
 - (5) Adjust the incoming SMS/MMS tone volume.
 - 6 Set the incoming e-mail tone.
 - 7 Adjust the incoming e-mail tone volume.
 - 8 Adjust the default volume of the other party's voice.
 - 9 Reset all setup items



Contact/Call history settings

The contact can be transferred from a Bluetooth® phone to the system. The contact also can be added, edited and deleted.

The call history can be deleted and contact and favorites can be changed.

- Display the "Telephone/message settings" screen. (→P. 304)
- 2 Select "Contact/call history settings".
- 3 Select the desired item to be set.
 - (1) For PBAP compatible Bluetooth® phones, select to set automatic contact/history transfer on/off. When set to on, the telephone's contact data and history are automatically transferred.
 - ② Select to update contacts from the connected telephone. (→P. 307)
 - 3 Select to sort contacts by the first name or last name field.



- (4) Select to add contacts to the favorites list. (→P. 311)
- (5) Select to delete contacts from the favorites list. (\rightarrow P. 313)
- 6 Select to set the transferred contact image display on/off.
- (7) Select to clear contacts from the call history.
- 8 Select to add new contacts to the contact list.* (→P. 309)
- Select to edit contacts in the contact list.* (→P. 310)
- 10 Select to delete contacts from the contact list.* $(\rightarrow P. 311)$
- (11) Select to reset all setup items.*
 - *: For PBAP compatible Bluetooth® phones only, this function is available when "Automatic Contact/History Transfer" is set to off. (→P. 306)

Update contacts from telephone

Operation methods differ between PBAP compatible and PBAP incompatible but OPP compatible Bluetooth[®] phones.

If your cellular phone is neither PBAP nor OPP compatible, the contacts cannot be transferred.

■ For PBAP Compatible Bluetooth® Phones

- 1 Select "Update contacts from telephone".
- 2 Check that a confirmation screen is displayed when the operation is complete.

This operation may be unnecessary depending on the type of cellular phone.

Depending on the type of cellular phone, OBEX authentication may be required when transferring contact data. Enter "1234" into the Bluetooth® phone.

If another Bluetooth[®] device is connected when transferring contact data, depending on the telephone, the connected Bluetooth[®] device may need to be disconnected.

Depending on the type of Bluetooth[®] phone being connected, it may be necessary to perform additional steps on the telephone.

■ For PBAP Incompatible Bluetooth® Phones

This operation cannot be performed while driving.

- 1 Select "Update contacts from telephone".
- Transfer the contact data to the system using a Bluetooth® phone.

This operation may be unnecessary depending on the type of cellular phone.

Depending on the type of cellular phone, OBEX authentication may be required when transferring contact data. Enter "1234" into the Bluetooth® phone.

To cancel this function, select "Cancel".

3 Check that a confirmation screen is displayed when the operation is complete.



■ Updating the contacts in a different way (From the "Call history" screen)

For PBAP compatible Bluetooth[®] phones, this function is available when "Automatic contact/history transfer" is set to off. (→P. 306)

- 1 Display the telephone top screen. (\rightarrow P. 286)
- 2 Select the "Call history" tab and select a contact not yet registered in the contact list.
- 3 Select "Update contact".
- 4 Select the desired contact.
- 5 Select a telephone type for the telephone number,

Registering a new contact to the contact list

New contact data can be registered. Up to 4 numbers per person can be registered. For PBAP compatible Bluetooth[®] phones, this function is available when "Automatic contact/history transfer" is set to off. $(\rightarrow P. 306)$

- 1 | Select "New contact".
- 2 Enter the name and select "OK"
- 3 Enter the telephone number and select "OK".
- 4 Select the telephone type for the telephone number.
- 5 To add another number to this contact, select "Yes".
- Registering a new contact in a different way (From the "Call history" screen)
 - 1 Display the telephone top screen. (→P. 286)
 - 2 Select the "Call history" tab and select a contact not yet registered in the contact list.
 - 3 Select "Add to contacts".
 - [4] Follow the steps in "Registering a new contact to the contacts list" from "STEP 3". (→P. 309)

Editing the contact data

For PBAP compatible Bluetooth[®] phones, this function is available when "Automatic contact/history transfer" is set to off. (\rightarrow P. 306)

- 1 Select "Edit contact".
- 2 Select the desired contact.
- 3 Select corresponding to the desired name or number.
 - ▶ For editing the name
- 4 Follow the steps in "Registering a new contact to the contacts list" from "STEP 3". (→P. 309)
- ▶ For editing the number
- 4 Follow the steps in "Registering a new contact to the contacts list" from "STEP 4". (→P. 309)
 - Editing the contacts in a different way (From the "Contact details" screen)
 - 1 Display the telephone top screen. (→P. 286)
 - 2 Select the "Contacts", "Call history" tab or the "Favorites" tab and select the desired contact.
 - 3 Select "Edit contact"
 - "E-mail addresses": Select to display all registered e-mail addresses for the contact.
 - Follow the steps in "Editing the contact data" from "STEP 4". (→P. 310)

Deleting the contact data

For PBAP compatible Bluetooth[®] phones, this function is available when "Automatic contact/history transfer" is set to off. (→P. 306)

- 1 Select "Delete contacts".
- 2 Select the desired contact and select "Delete".
- 3 Select "Yes" when the confirmation screen appears.
- Deleting the contact in a different way (From the "Contact details" screen)
 - 1 Display the telephone top screen. (\rightarrow P. 286)
 - 2 Select the "Contacts", "Call history" tab or the "Favorites" tab and select the desired contact.
 - 3 Select "Edit contact".
 - 4 Select "Yes" when the confirmation screen appears.

Favorites list setting

Up to 15 contacts (maximum of 4 numbers per contact) can be registered in the favorites list.

- Registering the contacts in the favorites list
 - Select "Add favorite"
 - 2 Select the desired contact to add to the favorites list.

 Dimmed contacts are already stored as a favorite.
 - 3 Check that a confirmation screen is displayed when the operation is complete.

- ▶ When 15 contacts have already been registered to the favorites list
- 1 When 15 contacts have already been registered to the favorites list, a registered contact needs to be replaced.

 Select "Yes" when the confirmation screen appears to replace a contact.
- 2 Select the contact to be replaced.
- 3 Check that a confirmation screen is displayed when the operation is complete.
 - Registering contacts in the favorites list in a different way (from the "Contacts" screen)
- 1 Display the telephone top screen. (\rightarrow P. 286)
- 2 Select the "Contacts" tab.
- 3 Select ☆ at the beginning of the desired contact list name to be registered in the favorites list.

 - ▶ Registering contacts in the favorites list in a different way (from the "Contact details" screen)
- 1 Display the telephone top screen. (→P. 286)
- 2 Select the "Contacts" tab or the "Call history" tab and select the desired contact.
- 3 Select "Add favorite".
- 4 Check that a confirmation screen is displayed when the operation is complete.

■ Deleting the contacts in the favorites list

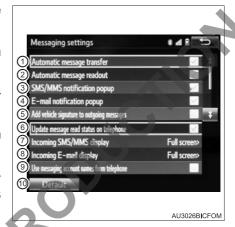
- 1 Select "Remove favorite".
- 2 Select the desired contacts and select "Remove".
- 3 Select "Yes" when the confirmation screen appears.
- 4 Check that a confirmation screen is displayed when the operation is complete.
- ▶ Deleting contacts in the favorites list in a different way (from the "Contacts" screen)
- 1 Display the telephone top screen. (\rightarrow P. 286)
- 2 Select the "Contacts" tab.
- 3 Select ★ at the beginning of the contact list name to be deleted from the favorites. list.

When selected, \bigstar is changed to </table-container>, and the data is deleted from the list.

- ▶ Deleting contacts in the favorites list in a different way (from the "Contact details" screen)
- 1 Display the telephone top screen. (\rightarrow P. 286)
- 2 Select the "Contacts", "Call history" tab or the "Favorites" tab and select the desired contact to delete.
- 3 Select "Remove favorite".
- 4 Select "Yes" when the confirmation screen appears.
- 5 Check that a confirmation screen is displayed when the operation is complete.

Message settings

- 1 Display the "Telephone/message settings" screen. (→P. 304)
- 2 Select "Messaging settings".
- 3 Select the desired item to be set.
 - 1 Set automatic message transfer on/off.
 - 2 Set updating contact from phone.
 - 3 Set the SMS/MMS notification popup on/off.
 - 4 Set the e-mail notification popup on/off.
 - (5) Set adding the vehicle signature to outgoing messages on/off.



- 6 Set updating message read status on telephone on/off.
- 7 Change the incoming SMS/MMS display.

"Full screen": When an SMS/MMS message is received, the incoming SMS/MMS display screen is displayed and can be operated on the screen.

"Drop-down": When an SMS/MMS message is received, a message is displayed on the upper side of the screen.

- 8 Change the incoming e-mail display.
 - "Full screen": When an e-mail is received, the incoming e-mail display screen is the displayed and can be operated on the screen.
 - "Drop-down": When an e-mail is received, a message is displayed on the upper side of the screen.
- Set display of messaging account names on the inbox tab on/off. When set to on, messaging account names used on the cellular phone will be displayed.
- 10 Reset all setup items.

■ Displaying the "Messaging settings" screen in a different way

- 1 Display the telephone top screen. (→P. 286)
- 2 Select 🖂 .
- 3 Select "Settings".

Telephone display settings

- 1 Display the "Telephone/message settings" screen. (\rightarrow P. 304)
- 2 Select "Telephone display settings".
- 3 Select the desired item to be set.
 - 1 Change the incoming call display.

"Full screen": When a call is received, the hands-free screen is displayed and can be operated on the screen.

"Drop-down": A message is displayed on the upper side of the screen.



- Set display of the contact/ history transfer completion message on/off.
- 3 Reset all setup items.

What to do if... (Troubleshooting)

If there is a problem with the hands-free system or a Bluetooth[®] device, first check the table below.

▶ When using the hands-free system with a Bluetooth® device

The hands-free system or Bluetooth® device does not work.

The Bluetooth version of the connected cellular phone may be older than the specified version.

→ Use a cellular phone with Bluetooth version 2.0 or higher (recommended: Ver. 3.0 with EDR or higher). (→P. 322)

▶ When registering/connecting a cellular phone

A cellular phone cannot be registered.

An incorrect passcode was entered on the cellular phone.

→ Enter the correct passcode on the cellular phone.

The registration operation has not been completed on the cellular phone side.

→ Complete the registration operation on the cellular phone (approve registration on the telephone).

Old registration information remains on either this system or the cellular phone.

→ Delete the existing registration information from both this system and the cellular phone, then register the cellular phone you wish to connect to this system. (→P. 274)

A Bluetooth® connection cannot be made.

Another Bluetooth® device is already connected.

→ Manually connect the cellular phone you wish to use to this system. (→P. 277)

Bluetooth® function is not enabled on the cellular phone.

ightarrow Enable the Bluetooth $^{ ext{@}}$ function on the cellular phone.

"Check your telephone." message is displayed.

Bluetooth® function is not enabled on the cellular phone.

→ Enable the Bluetooth[®] function on the cellular phone.

Old registration information remains on either this system or the cellular phone.

→ Delete the existing registration information from both this system and the cellular phone, then register the cellular phone you wish to connect to this system. (→P. 274) ▶ When making/receiving a call

A call cannot be made/received.

Your vehicle is in a "Out of cellular service area" area.

- → Move to where "Out of cellular service area" no longer appears on the display.
- ▶ When using the phonebook

Phonebook data cannot be transferred manually/automatically.

Automatic phonebook transfer function on this system is set to off.

 \rightarrow Set automatic phonebook transfer function on this system to on. (\rightarrow P. 306)

Passcode has not been entered on the cellular phone.

→ Enter the passcode on the cellular phone if requested (default passcode: 1234).

Transfer operation on the cellular phone has not completed.

→ Complete transfer operation on the cellular phone (approve transfer operation on the telephone).

Phonebook data cannot be edited.

Automatic phonebook transfer function on this system is set to on.

 \rightarrow Set automatic phonebook transfer function on this system to off. (\rightarrow P. 306)

▶ When using the Bluetooth® message function

Messages cannot be viewed.

Message transfer is not enabled on the cellular phone.

 \rightarrow Enable message transfer on the cellular phone (approve message transfer on the telephone).

Automatic transfer function on this system is set to off.

 \rightarrow Set automatic transfer function on this system to on. (\rightarrow P. 314)

New message notifications are not displayed.

Notification of SMS/MMS/E-mail reception on this system is set to off.

 \rightarrow Set notification of SMS/MMS/E-mail reception on this system to on. (\rightarrow P. 314)

Automatic message transfer function is not enabled on the cellular phone.

→ Enable automatic transfer function on the cellular phone.

In other situations

Even though all conceivable measures have been taken, the symptom status does not change.

The cellular phone is not close enough to this system.

ightarrow Bring the cellular phone closer to this system.

The cellular phone is the most likely cause of the symptom.

- → Turn the cellular phone off, remove and reinstall the battery pack, and then restart the cellular phone.
- ightarrow Enable the cellular phone's Bluetooth[®] connection.
- → Stop the cellular phone's security software and close all applications.
- Before using an application installed on the cellular phone, carefully check its source and how its operation might affect this system.

Bluetooth[®]

■ When using the Bluetooth® audio system

- In the following conditions, the system may not function.
 - If the portable audio player is turned off
 - If the portable audio player is not connected
 - If the portable audio player's battery is low
- There may be a delay if a cellular phone connection is made during Bluetooth® audio play.
- Depending on the type of portable audio player that is connected to the system, operation may differ slightly and certain functions may not be available.

■When using the hands-free system

- The audio system is muted when making a call.
- If both parties speak at the same time, it may be difficult to hear.
- If the received call volume is overly loud, an echo may be heard.
 If the Bluetooth[®] phone is too close to the system, quality of the sound may deteriorate and connection status may deteriorate.
- In the following circumstances, it may be difficult to hear the other party:
 - · When driving on unpaved roads
 - When driving at high speeds
 - If a window or roof is open
 - If the air conditioning is blowing directly on the microphone
 - If there is interference from the network of the cellular phone

■ Conditions under which the system will not operate

- If using a cellular phone that does not support Bluetooth[®]
- If the cellular phone is turned off
- If you are outside of cellular phone service coverage
- If the cellular phone is not connected
- If the cellular phone's battery is low
- When outgoing calls are controlled, due to heavy traffic on telephone lines, etc.
- When the cellular phone itself cannot be used
- When transferring Contact data from the cellular phone

■ Bluetooth[®] antenna

The antenna is built into the display.

If the portable audio player is behind the seat or in the glove box or console box, or is touching or covered by metal objects, the connection status may deteriorate.

If the cellular phone is behind the seat or in the console box, or touching or covered by metal objects, the connection status may deteriorate.

■ Battery charge/signal status

- This display may not correspond exactly with the portable audio player or cellular phone itself.
- This system does not have a charging function.
- The portable audio player or cellular phone battery will be depleted quickly when the device is connected to Bluetooth[®].

■When using the Bluetooth® audio and hands-free system at the same time

The following problems may occur.

- The Bluetooth[®] audio connection may be interrupted.
- Noise may be heard during Bluetooth® audio playback.

■ About the Contact in this system

The following data is stored for every registered cellular phone. When another telephone is connecting, you cannot read the registered data.

- Contact data
- Call history
- Favorite
- Message

When removing a Bluetooth® phone from the system, the above-mentioned data is also deleted.

■ About Bluetooth®

The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Fujitsu-ten Corporation is under license. Other trademarks and trade names are those of their respective owners.



■ Compatible models

The Bluetooth $^{\!0}\!\!\!$ audio system supports portable audio players with the following specifications

- Bluetooth[®] specifications:
 Ver. 2.0, or higher (Recommended: Ver. 3.0+EDR or higher)
- Profiles:
 - A2DP (Advanced Audio Distribution Profile) Ver. 1.0, or higher (Recommended: Ver. 1.2 or higher)
 This is a profile to transmit stereo audio or high quality sound to the audio system.
 - AVRCP (Audio/Video Remote Control Profile) Ver. 1.0 or higher (Recommended: Ver. 1.4 or higher)

This is a profile to allow remote control the A/V equipment.

However, please note that some functions may be limited depending on the type of portable audio player connected.

The hands-free system supports cellular phones with the following specifications.

• Bluetooth® specification:

Ver. 2.0 or higher (Recommended: Ver. 3.0+EDR or higher)

Profiles:

- HFP (Hands Free Profile) Ver. 1.0 or higher (Recommended: Ver. 1.6 or higher)
 - This is a profile to allow hands-free phone calls using a cellular phone or head set. It has outgoing and incoming call functions.
- OPP (Object Push Profile) Ver. 1.1 or higher (Recommended: Ver. 1.2)
 This is a profile to transfer Contact data. When a Bluetooth[®] compatible cellular phone has both PBAP and OPP, OPP cannot be used.
- PBAP (Phone Book Access Profile) Ver. 1.0 or higher (Recommended: Ver. 1.1)

This is a profile to transfer contact data.

If the cellular phone does not support HFP, you cannot register it with the hands-free system. OPP or PBAP services must be selected individually.

■ Reconnecting the portable audio player

If the portable audio player is disconnected due to poor reception when the engine switch is in the "ACC" or "ON" position, the system automatically reconnects the portable audio player.

If you have switched off the portable audio player yourself, follow the instructions below to reconnect:

- Select the portable audio player again
- Enter the portable audio player

■ When you sell your car

Be sure to delete your personal data. (→P. 237)

A CAUTION

While driving

Do not use the portable audio player, cellular phone or connect a device to the Bluetooth® system.

■ Caution regarding interference with electronic devices

- Your audio unit is fitted with Bluetooth[®] antennas. People with implanted pacemakers or cardiac defibrillators should maintain a reasonable distance between themselves and the Bluetooth® antennas. The radio waves may affect the operation of such devices.
- Before using Bluetooth[®] devices, users of any electrical medical device other than implanted pacemakers and implanted cardiac defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves. Radio waves could have unexpected effects on the operation of such medical devices.

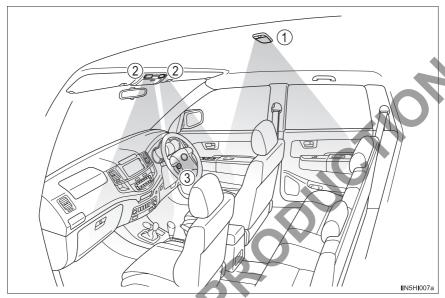


NOTICE

When leaving the vehicle

Do not leave your portable audio player or cellular phone in the vehicle. The inside of the vehicle may become hot, causing damage to the portable audio player or cellular phone.

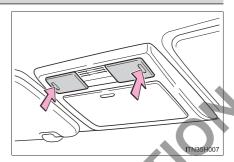
Interior lights list



- 1 Interior light (→P. 326)
- 2 Personal lights (if equipped) (→P. 326)
- 3 Engine switch light (if equipped)

Personal lights (if equipped)

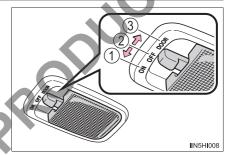
On/off



Interior light

- (1) On
- 2 Off
- 3 Door position

The interior light comes on when a door is opened. It turns off when the doors are closed.



■ Illuminated entry system (if equipped)

► Type A

The lights turn on/off automatically with the opening/closing of the doors.

▶ Type B

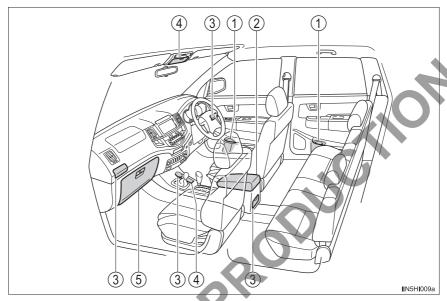
The lights automatically turn on/off according to the engine switch position, whether the doors are locked/unlocked, and whether the doors are open/closed.

NOTICE

■ To prevent battery discharge

Do not leave the lights on longer than necessary when the engine is not running.

List of storage features



1 Bottle holders (if equipped)

(→P. 330)

2 Console box (if equipped) (→P. 328) 4 Auxiliary boxes (if equipped)

(→P. 331)

(5) Glove box

(→P. 328)

3 Cup holders (if equipped) (→P. 329)

A CAUTION

■ Items that should not be left in the storage spaces

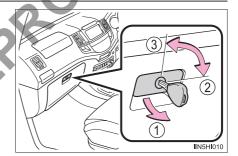
Do not leave glasses, lighters or spray cans in the storage spaces, as this may cause the following when cabin temperature becomes high:

- Glasses may be deformed by heat or cracked if they come into contact with other stored items.
- Lighters or spray cans may explode. If they come into contact with other stored items, the lighter may catch fire or the spray can may release gas, causing a fire hazard.
- ■When driving or when the storage compartments are not in use Keep the lids closed.

In the event of sudden braking or sudden swerving, an accident may occur due to an occupant being struck by an open lid or the items stored inside.

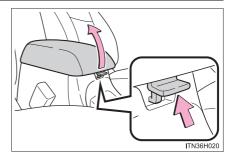
Glove box

- (1) Open (pull the lever)
- (2) Lock with the master key
- (3) Unlock with the master key



Console box (if equipped)

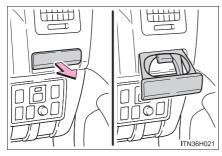
Lift the lid while pulling up the knob to release the lock.

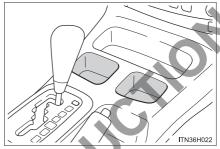


Cup holders

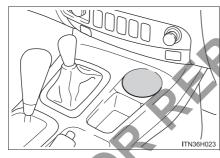
- ► Type A (instrument panel)
- Pull out the cup holder completely.

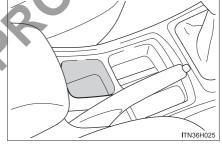
 Lift the tray up before returning.
- ► Type B (console box) (if equipped)





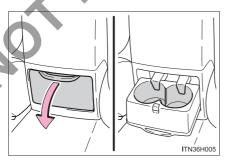
- ► Type C (console box) (if equipped)
- Type D (console box) (if equipped)





➤ Type E (rear console box) (if equipped)

Pull the lid.





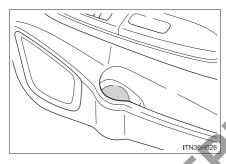
A CAUTION

Items unsuitable for the cup holder

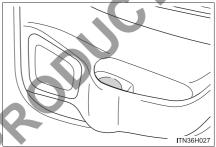
Do not place anything other than cups or beverage cans in the cup holders. Other items may be thrown out of the holders in the event of sudden braking, sudden swerving or an accident, cause injury. If possible, cover hot drinks to prevent burns.

Bottle holders

For front seats



For rear seats (if equipped)



■ When using the holder as a bottle holder

- When storing a bottle, close the cap.
- The bottle may not be stored depending on its size or shape.



A CAUTION

Items unsuitable for the bottle holder

Do not place anything other than a bottle in the bottle holders. Other items may be thrown out of the holders in the event of an accident or

sudden braking and cause injury.



NOTICE

Items that should not be stowed in the bottle holders

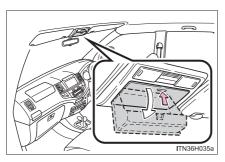
Do not place open bottles in the bottle holders, or glasses and paper cups containing liquid. The contents may spill and glasses may break.

Auxiliary boxes

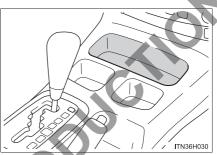
► Type A (if equipped)

Press in the lid.

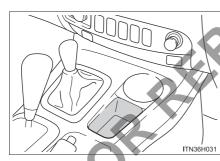
The auxiliary box is useful for temporarily storing sunglasses and similar small items.



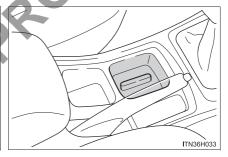
▶ Type B (if equipped)



► Type C (if equipped)



Type D (if equipped)



A CAUTION

■ Items unsuitable for storing (type A)

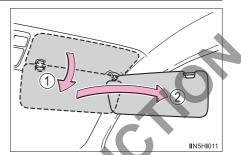
Do not store items heavier than 0.2 kg (0.4 lb.).

Doing so may cause the auxiliary box to open and the items inside may fall out, resulting in an accident.

Sun visors and vanity mirror

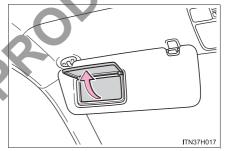
Sun visors

- 1) To set the visor in the forward position, flip it down.
- 2 To set the visor in the side position, flip down, unhook, and swing it to the side.



Vanity mirror

Open the cover to use.

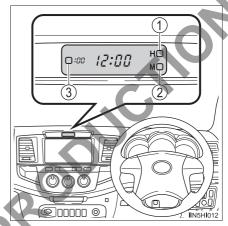


Clock

The clock can be adjusted by pressing the buttons.

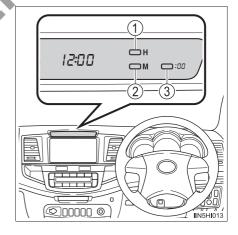
- Vehicles without multi-information display
- 1 Adjusts the hours
- (2) Adjusts the minutes
- 3 Rounds to the nearest hour*

*: e.g. 1:00 to 1:29
$$\rightarrow$$
 1:00 1:30 to 1:59 \rightarrow 2:00



- ▶ Vehicles with multi-information display
- 1) Adjusts the hours
- 2 Adjusts the minutes
- 3 Rounds to the nearest hour*

*: e.g. 1:00 to 1:29
$$\rightarrow$$
 1:00 1:30 to 1:59 \rightarrow 2:00



■The clock is displayed when

The engine switch is in the "ACC" or "ON" position.

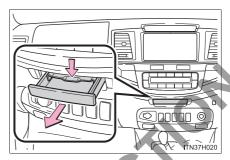
■When disconnecting and reconnecting battery terminals

The time display will automatically be set to 1:00.

Ashtray

Pull the lid.

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



A CAUTION

■When not in use

Keep the ashtray closed. In the event of sudden braking or sudden swerving, an accident may occur due to an occupant being struck by the open ashtray or ash flying out.

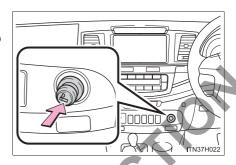
■ To prevent fire

- Fully extinguish matches and cigarettes before putting them in the ashtray, then make sure the ashtray is fully closed.
- Do not place paper or any other type of flammable object in the ashtray.

Cigarette lighter

Push the cigarette lighter.

The cigarette lighter will pop up when it is ready for use.



■The cigarette lighter can be used when

The engine switch is in the "ACC" or "ON" position.

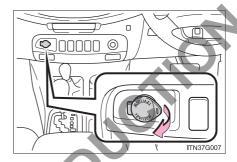


- ■To avoid burns or fires
 - Do not touch the metal part of the cigarette lighter.
 - Do not hold the cigarette lighter down. It could overheat and cause a fire.
 - Do not insert anything other than the cigarette lighter provided into the cigarette lighter outlet. Doing so may deform the outlet and make the cigarette lighter pop out of the outlet or become difficult to take out.

Power outlet*

The power outlet can be used for 12V accessories that run on less than 10A.

Open the cover.



■ The power outlet can be used when

The engine switch is in the "ACC" or "ON" position.



NOTICE

■ To avoid damaging the power outlet

Close the power outlet lid when the power outlet is not in use.

Foreign objects or liquids that enter the power outlet may cause a short circuit.

■ To prevent blown fuse

Do not use an accessory that uses more than 12V 10A.

■ To prevent battery discharge

Do not use the power outlet longer than necessary when the engine is not running.

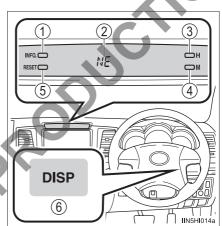
Compass*

The compass on the multi-information display indicates the direction in which the vehicle is heading.

Operation

To turn the compass on, press the "INFO." or "DISP" button until the compass appears. (\rightarrow P. 91)

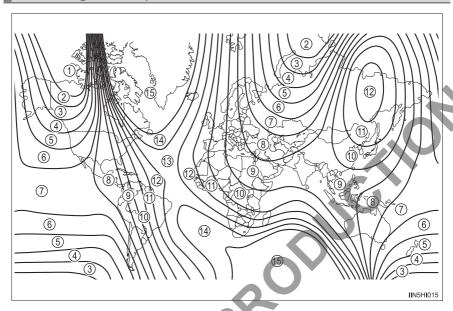
- 1) "INFO." button
- 2 Direction display
- (3) "H" button
- (4) "M" button
- (5) "RESET" button
- (6) "DISP" button (if equipped)



Displays and directions

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

Calibrating the compass



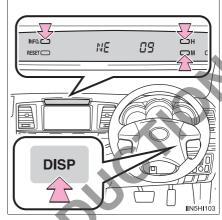
The direction display deviates from the true direction determined by the earth's magnetic field. The amount of deviation varies depending on the geographic position of the vehicle.

If you cross over one of the map boundaries shown in illustration, the compass will deviate.

To obtain higher precision or perfect calibration, refer to "Deviation calibration".

■ Deviation calibration

- 1 Stop the vehicle.
- 2 Press and hold the "INFO." or "DISP" button until a number (1 to 15) appears on the clock. Then press the "H" or "M" button, and referring to the map above, select the number of the zone where you are.

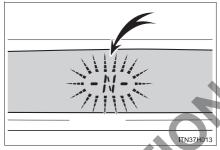


3 Press the "INFO." or "DISP" button.

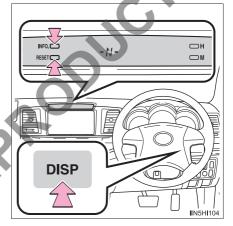
If the direction is displayed for several seconds after adjustment, the calibration is complete.

■ Circling calibration

If the direction display on the compass flashes, circling calibration needs to be performed.

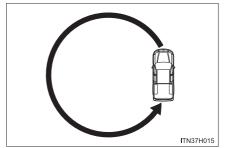


- 1 Stop the vehicle in a place where it is safe to drive in a circle.
- 2 Press and hold the "INFO." or "DISP" button until a number (1 to 15) appears on the clock, and press the "RESET" button.
 - "- N -" appears on the direction display.



3 Drive the vehicle at 8 km/h (5 mph) or less in a circle until a direction is displayed.

If there is not enough space to drive in a circle, drive around the block until a direction is displayed.



■ Conditions unfavorable to correct operation

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

- The vehicle is stopped immediately after turning.
- The vehicle is on an inclined surface.
- The vehicle is in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground car park/parking lot, under a steel tower, between buildings, roof car park/parking lot, near an intersection, near a large vehicle, etc.).
- The vehicle has become magnetized.
 (There is a magnet or metal object near the multi-information display.)
- The battery has been disconnected.
- A door is open.



While driving the vehicle

Do not adjust the display. Adjust the display only when the vehicle is stopped.

When doing the circling calibration

Secure a wide space, and watch out for people and vehicles in the vicinity. Do not violate any local traffic rules while performing circling calibration.

⚠ NOTICE

■ To avoid compass malfunctions

Do not place magnets or any metal objects near the multi-information display.

Doing this may cause the compass sensor to malfunction.

To ensure normal operation of the compass

- Do not perform a circling calibration of the compass in a place where the earth's magnetic field is subject to interference by artificial magnetic fields.
- During calibration, do not operate electric systems (power windows etc.) as they may interfere with the calibration.



Maintenance and care

6-1.	Maintenance and care	
	Cleaning and protecting the vehicle exterior	344
	Cleaning and protecting the vehicle interior	348
6-2.	. Maintenance	
	Maintenance requirements	352
6-3.	. Do-it-yourself maintenance	
	Do-it-yourself service precautions	355
	Hood	
	Engine compartment	361
	Tires	
X	Tire inflation pressure	378
, –	Wheels	380
•	Air conditioning filter	382
	Wireless remote control battery	384
	Checking and replacing fuses	387
	Light bulbs	398

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 (vehicles with short pole type antenna) or retract (vehicles with pillar type antenna) the antenna before washing the vehicle. Start washing from the front of the vehicle. Make sure to re-install the antenna (vehicles with short pole type antenna) and extend the mirrors before driving.
- Brushes used in automatic car washes may scratch the vehicle surface and harm your vehicle's paint.

■ High pressure car washes

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

■ Aluminum 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

Do not scrub with abrasive cleaners.

A CAUTION

When washing the vehicle

Do not apply water to the inside of the engine compartment. Doing so may cause the electrical components etc. to catch fire.

Precautions regarding the exhaust pipe

Exhaust gasses cause the exhaust pipe to become guite 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 wheels etc.)
 - Wash the vehicle immediately in the following cases
 - After driving near the sea coast
 - After driving on salted roads
 - If coal tar or tree sap is present on the paint surface
 - If dead insects, insect droppings or bird droppings are present on the paint surface
 - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
 - If the vehicle becomes heavily soiled with 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

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 to the surfaces of the lights. Wax may cause damage to the lenses.
- Antenna installation and removal precautions (vehicles with short pole type antenna)
 - 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.

■ To prevent damage

Remove (vehicles with short pole type antenna) or retract (vehicles with pillar type antenna) the antenna in the following cases.

- The antenna will touch the ceiling of a garage.
- A cover will be put on the roof.
- When driving through an automatic car wash.
- Any other cases where there is a risk of touching surrounding parts.



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 off 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.

Cleaning the 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 use water Wipe dirty surfaces and let them dry. Excellent results are obtained by 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.



A CAUTION

Water in the vehicle

- Do not splash or spill liquid in the vehicle. Doing so may cause electrical components etc. to malfunction or catch fire.
- Do not get any of the SRS components or wiring in the vehicle interior wet. (→P. 43)

An electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or serious 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 the following types of detergent, as they may discolor the vehicle interior or cause streaks or damage to painted surfaces:
 - Non-seat portions: Organic substances such as benzene or gasoline, alkaline or acidic solutions, dye, and bleach
 - Seats: Alkaline or acidic solutions, such as thinner, benzene, and alcohol
- 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 from 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 containing 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 such as the audio system above or under the floor of the vehicle. Water may also cause the body to rust.



- Cleaning the inside of the rear window (vehicles with rear window defogger)
 - Do not use glass cleaner to clean the rear window, as this may cause damage to the rear window defogger heater wires. Use a cloth dampened with lukewarm water to gently wipe the window clean. Wipe the window in strokes running parallel to the heater wires.
 - Be careful not to scratch or damage the heater wires.

Maintenance requirements

To ensure safe and economical driving, day-to-day care and regular maintenance are essential. Toyota recommends the following maintenance:

Scheduled maintenance

Scheduled maintenance should be performed at specified intervals according to the maintenance schedule.

For full details of your maintenance schedule, refer to the "Warranty and Service Booklet".

Do-it-yourself maintenance

What about do-it-yourself maintenance?

Many maintenance items are easy to do yourself if you have a little mechanical ability and a few basic automotive tools.

Note, however, that some maintenance tasks require special tools and skills. These are best performed by qualified technicians. Even if you are an experienced do-it-yourself mechanic, we recommend that repairs and maintenance be conducted by your Toyota dealer who will keep a record of maintenance on your vehicle. This record could be helpful should you ever require Warranty Service.

■Where to go for maintenance service?

It makes good sense to take your vehicle to your local Toyota dealer for maintenance service as well as other inspections and repairs.

Toyota technicians are well-trained specialists receiving the latest service information through technical bulletins, service tips, and in-dealership training programs. They learn to work on Toyota before they work on your vehicle rather than while they are working on it. Doesn't that seem like the best way?

Your Toyota dealer has invested a lot of money in special Toyota tools and service equipment. It helps them to do the job better and at less cost.

Your Toyota dealer's service department will perform all of the scheduled maintenance on your vehicle reliably and economically.

■ Does your vehicle need repairs?

Be on the alert for changes in performance and sounds, and visual tip-offs that indicate service is needed. Some important clues are:

- Engine missing, stumbling or pinging
- Appreciable loss of power
- Strange engine noises
- A fluid leak under the vehicle (However, water dripping from the air conditioning system after use is normal.)
- Change in exhaust sound (This may indicate a dangerous carbon monoxide leak. Drive with the windows open and have the exhaust system checked immediately.)
- Flat-looking tires, excessive tire squeal when cornering, uneven tire wear
- Vehicle pulls to one side when driven straight on a level road
- Strange noises related to suspension movement
- Loss of brake effectiveness, spongy feeling brake pedal or clutch pedal, pedal almost touches the floor, vehicle pulls to one side when braking
- Engine coolant temperature continually higher than normal
- If you notice any of these clues, take your vehicle to your Toyota dealer as soon as possible. Your vehicle may need adjustment or repair.



A CAUTION

■ If your vehicle is not properly maintained

Improper maintenance could result in serious damage to the vehicle and possible serious injury or death.

■ Handling of the battery

Battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. $(\rightarrow P. 369)$

Do-it-yourself service precautions

If you perform maintenance by yourself, be sure to follow the correct procedure as given in these sections.

Items	Parts and tools
Battery condition (→P. 369)	Warm water Baking soda Grease Conventional wrench (for terminal clamp bolts) Distilled water
Engine coolant level (→P. 367)	 "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol-based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology "Toyota Super Long Life Coolant" is pre-mixed with 50% coolant and 50% deionized water. Funnel (used only for adding coolant)
Engine oil level (→P. 364)	 "Toyota Genuine Motor Oil" or equivalent Rag or paper towel Funnel (used only for adding engine oil)

Items		Parts and tools
Fuses	(→P. 387)	Fuse with same amperage rating as original
Light bulbs	(→P. 398)	Bulb with same number and wattage rating as originalPhillips-head screwdriverWrench
Radiator, condenser and intercooler (if equipped)		- ,(0)
Tire inflation pressure	(→P. 378)	Tire pressure gauge Compressed air source
Washer fluid	(→P. 373)	 Water or washer fluid containing antifreeze (for winter use) Funnel (used only for adding water or washer fluid)

A 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 and 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, consult a doctor.

Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in your eyes.



■ If you remove the air cleaner filter

Driving with the air cleaner filter removed may cause excessive engine wear due to dirt in the air.

■ If the fluid level is low or high

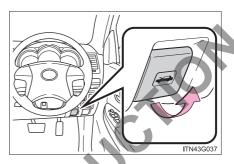
It is normal for the brake fluid level to go down slightly as the brake pads wear or when the fluid level in the accumulator is high.

If the reservoir needs frequent refilling, it may indicate a serious problem.

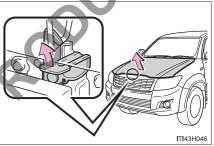
Hood

Release the lock from the inside of the vehicle to open the hood.

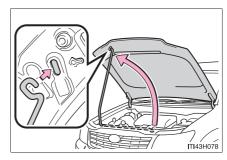
1 Pull the hood lock release lever.
The hood will pop up slightly.



2 Pull up the auxiliary catch lever and lift the hood.



3 Hold the hood open by inserting the supporting rod into the slot.



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.



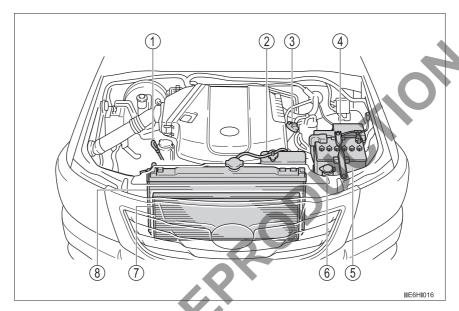
NOTICE

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.

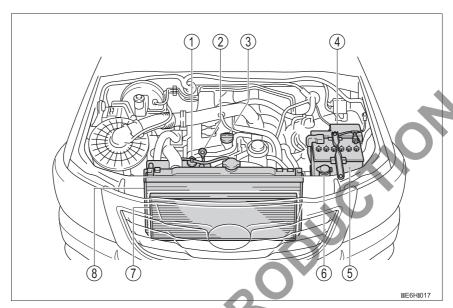
Engine compartment

▶ 1GR-FE engine



- 1 Engine oil level dipstick
 - (→P. 364)
- ② Engine coolant reservoir (→P. 367)
- ③ Engine oil filler cap (→P. 365)
- (4) Fuse box (→P. 387)
- (→P. 369)
- ⑥ Washer fluid tank (→P. 373)
- (→P. 369)

▶ 2TR-FE engine



1 Engine coolant reservoir

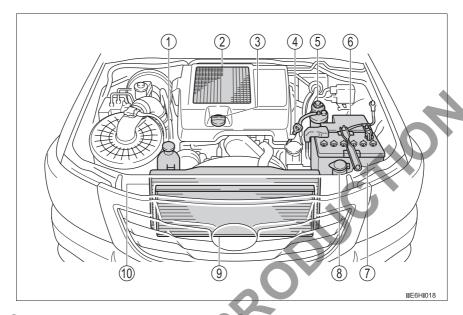
(→P. 367)

2 Engine oil level dipstick

(→P. 364)

- ③ Engine oil filler cap (→P. 365)
- 4 Fuse box (→P. 387)
- ⑤ Battery (→P. 369)
- ⑥ Washer fluid tank (→P. 373)
- (→P. 369)
- (→ P. 369)

▶ 1KD-FTV engine



- 1 Engine coolant reservoir
 - (→P. 367)
- 2 Intercooler (→P. 369)
- 3 Engine oil filler cap (>P. 365)
- 4 Engine oil level dipstick
 - (→P. 364)

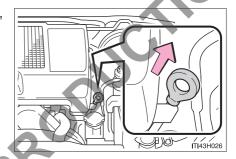
- 5 Fuel filter (→P. 374, 456)
- 6 Fuse box
- (→P. 387)
- 7 Battery
- (→P. 369)
- (8) Washer fluid tank (→P. 373)
- (9) Condenser
- (→P. 369)
- 10 Radiator
- (→P. 369)

Engine oil

With the engine at operating temperature and turned off, check the oil level on the dipstick.

■ Checking the engine oil

- 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.
- 2 Remove the sand and dust from around the dipstick.
- 3 Holding a rag under the end, pull the dipstick out.



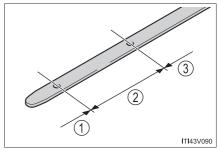
4 Wipe the dipstick clean.

Make sure that the inlet of the oil level gauge guide and O-ring of the dipstick are free from sand and dust.

If the O-ring is damaged, replace it with a new one.

- 5 Reinsert the dipstick fully.
- 6 Holding a rag under the end, pull the dipstick out and check the oil level.
 - 1 Low
 - 2) Normal
 - (3) Excessive

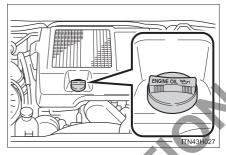
The shape of the dipstick may differ depending on the type of vehicle or engine.



7 Wipe the dipstick and reinsert it fully.

Adding engine oil

If the oil level is below or near the low level mark, add engine oil of the same type as that already in the engine.



Make sure to check the oil type and prepare the items needed before adding oil.

Engine oil selection		→P. 465
Oil quantity (Low → Full)	1GR-FE and 2TR-FE engines	1.5 L (1.6 qt., 1.3 Imp.qt.)
(LOW → Full)	1KD-FTV engine	1.6 L (1.7 qt., 1.4 lmp.qt.)
Items		Clean funnel

- 1 Remove the sand and dust from around the oil filler cap.
- Remove the oil filler cap by turning it counterclockwise.
- 3 Add engine oil slowly, checking the dipstick.
- 4 Install the oil filler cap by turning it clockwise.

■ 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

Used engine oil

- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation and 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. 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 a regular basis.

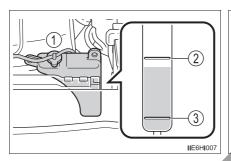
When replacing the engine oil

- Be careful not to spill engine oil on the vehicle components.
- Avoid overfilling, or 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.

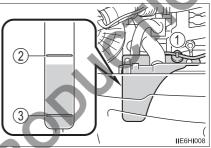
Engine coolant

The coolant level is satisfactory if it is between the upper and lower lines on the reservoir when the engine is cold.

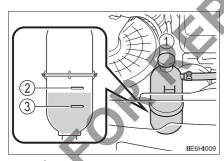
- 1 Reservoir cap
- (2) Upper line
- (3) Lower line
 - ▶ 1GR-FE engine



▶ 2TR-FE engine



▶ 1KD-FTV engine



If the level is on or below the lower line, add coolant up to the upper line. $(\rightarrow P. 452)$

■ Coolant selection

Only use "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology.

"Toyota Super Long Life Coolant" is a mixture of 50% coolant and 50% deionized water. (Minimum temperature: -35°C [-31°F])

For more details about engine coolant, contact your Toyota dealer.

■ If the coolant level drops within a short time of replenishing

Visually check the radiator, hoses, engine coolant reservoir caps, drain cock and water pump. If you cannot find a leak, have your Toyota dealer test the cap and check for leaks in the cooling system.



A CAUTION

When the engine is hot

Do not remove the radiator cap or the coolant reservoir 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 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 it from damaging parts or paint.

Notice on coolant quality

Do not use improper coolant. If improper coolant is used, the engine cooling system may be damaged.

Radiator, condenser and intercooler (if equipped)

Check the radiator, condenser and intercooler and clear away any foreign objects. If any of the above parts is extremely dirty or you are not sure of their condition, have your vehicle inspected by your Toyota dealer.



A CAUTION

■When the engine is hot

Do not touch the radiator, condenser or intercooler as they may be hot and cause serious injuries, such as burns.

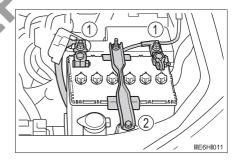
Battery

Check the battery as follows.

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

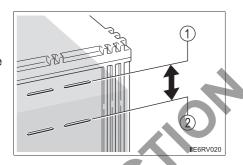


■ Checking battery fluid

Check that the level is between the upper and lower lines.

- 1 Upper line
- (2) Lower line

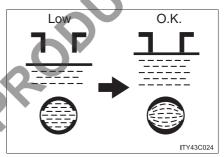
If the fluid level is at or below the lower line, add distilled water.



■ Adding distilled water

- 1 Remove the vent plug.
- 2 Add distilled water.

 If the upper line cannot be seen, check the fluid level by looking directly at the cell.



3 Put the vent plug back on and close it securely.

■ Before recharging

When recharging, the battery produces hydrogen gas which is flammable and explosive. Therefore, observe the following 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.



Chemicals in the battery

Batteries contain 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 the 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 safely 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 insufficient ventilation.

■ 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

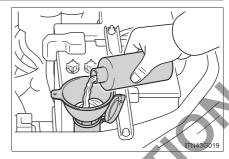
Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

When adding distilled water

Avoid overfilling. Water spilled during battery recharging may cause corrosion.

Washer fluid

If any washer does not work, the washer tank may be empty. Add washer fluid.





A CAUTION

When adding washer fluid

Do not add washer fluid when the engine is hot or running as 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.

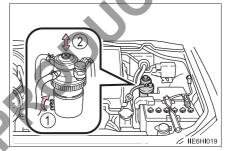
Refer to the freezing temperatures listed on the label of the washer fluid bottle.

Fuel filter (diesel engine only)

You may drain the fuel filter yourself. However, as the operation is difficult, we recommend having it drained by your Toyota dealer. Even if you decide to drain it yourself, contact your Toyota dealer.

The water in the fuel filter needs to be drained if the fuel system warning light flashes and buzzer sounds. (→P. 425)

- 1 Turn the engine switch to the "LOCK" position.
- 2 Place a small tray under the drain plug or drain hose to catch the water and any fuel that comes out.
- 3 Perform the draining as shown in the illustration.
 - 1 Turn the drain plug counterclockwise about 2 to 2 1/2 turns.
 - Loosening more than this will cause water oozing from around the drain plug.
 - 2 Operate the priming pump until fuel begins to run out



4 After draining, tighten the drain plug by hand.

Tires

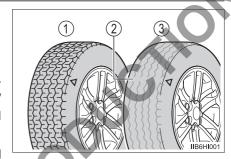
Replace or rotate tires in accordance with maintenance schedules and treadwear.

Checking tires

- 1 New tread
- (2) Treadwear indicator
- (3) Worn tread

The location of treadwear indicators is shown by the "TWI" or " Δ " marks, etc., molded on the sidewall of each tire.

Check spare tire condition and pressure if not rotated.

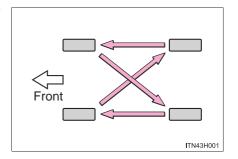


Tire rotation

Vehicles with spare tire of a different wheel type from the installed tires

Rotate the tires in the order shown.

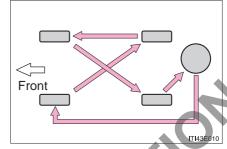
To equalize tire wear and help extend tire life, Toyota recommends that tire rotation is carried out approximately every 10000 km (6000 miles).



▶ Vehicles with spare tire of the same wheel type as the installed tires

Rotate the tires in the order shown.

To equalize tire wear and help extend tire life, Toyota recommends that tire rotation is carried out approximately every 10000 km (6000 miles).



■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, and 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.

■ Tire life

Any tire over 6 years old must be checked by a qualified technician even if it has seldom or never been used or damage is not obvious.

■ If the tread on snow tires wears down below 4 mm (0.16 in.)

The effectiveness of the tires as snow tires is lost.

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 snow 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.



NOTICE

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 pressure of each tire becomes low while driving Do not continue driving, or your tires and/or wheels may be ruined.

Tire inflation pressure

Make sure to maintain proper tire inflation pressure. Tire inflation pressure should be checked at least once per month. However, Toyota recommends that tire inflation pressure be checked once every two weeks. $(\rightarrow P. 475)$

■ 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 inflating, 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 or has not been driven for more than 1.5 km or 1 mile, 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 pressure that is even just a few pounds off can affect ride quality and handling.
- Do not reduce tire inflation pressure after driving. It is normal for 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.



■ 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 put the tire valve caps back on.

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 are lost, replace them as soon as possible.

Wheels

If a wheel is bent, cracked or heavily corroded, it should be replaced. Otherwise, the tire may separate from the wheel or cause a 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 the following:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened

Aluminum wheel precautions

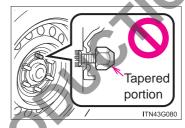
- Use only Toyota wheel nuts and wrenches designed for use with your aluminum wheels.
- When rotating, repairing or changing your tires, check that the wheel nuts are still tight after driving 1600 km (1000 miles).
- Be careful not to damage the aluminum wheels when using tire chains.
- Use only Toyota genuine balance weights or equivalent and a plastic or rubber hammer when balancing your wheels.

When replacing wheels

- Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in a 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 ends facing inward. Installing the nuts with the tapered ends facing outward can cause the wheel to break and eventually cause the 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.

Use of defective wheels prohibited

Do not use cracked or deformed wheels.

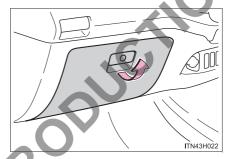
Doing so could cause the tire to leak air during driving, possibly causing an accident.

Air conditioning filter

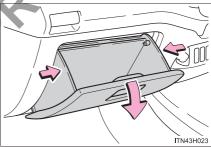
The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

Removal method

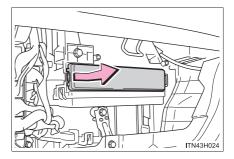
- 1 Turn the engine switch to the "LOCK" position.
- 2 Open the glove box.



3 Push in each side of the glove box to disconnect the claws.

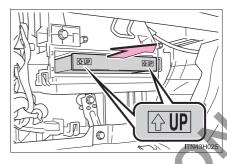


4 Remove the filter cover.



5 Remove the air conditioning filter and replace it with a new one.

The "TUP" marks shown on the filter should be pointing up interval



■ Changing 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 "Warranty and Service Booklet".)

If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.



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 depleted.

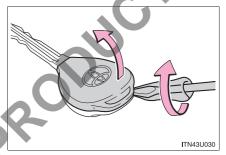
You will need the following items:

- Flathead screwdriver
- Lithium battery CR2016

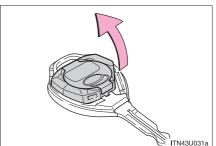
Replacing the battery

1 Remove the cover.

To prevent damage to the key, cover the tip of the screwdriver with a rag.

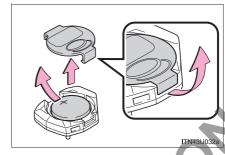


2 Remove the module.



3 Remove the battery cover and the depleted battery.

Insert a new battery with the "+" terminal facing up.



■ Use a CR2016 lithium battery

- Batteries can be purchased at your Toyota dealer, local electrical appliance shops or camera stores.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to local laws.

■ If the key battery is depleted

The following symptoms may occur:

- The wireless remote control will not function properly.
- The operational range will be reduced.



■ 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.



NOTICE

For normal operation after replacing the battery

Observe the following precautions to prevent accidents:

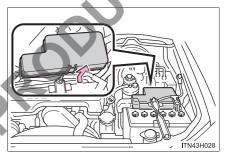
- Always work with dry hands. Moisture may cause the battery to rust.
- Do not touch or move any other component inside the remote control.
- Do not bend either of the battery terminals.

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.

- 1 Turn the engine switch off.
- 2 After a system failure, see "Fuse layout and amperage ratings" (→P. 390) for details about which fuse to check.
- 3 Open the fuse box cover.
 - ▶ Engine compartment

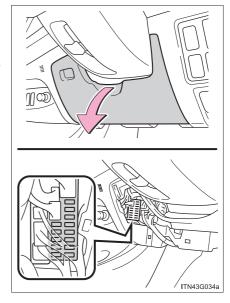
Push the tab in and lift the lid off.



▶ Driver's side instrument panel (front and rear sides)

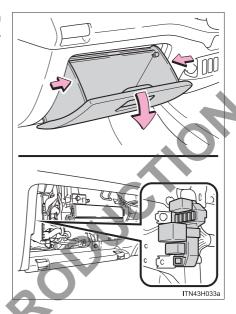
Remove the lower instrument panel.

Rear side: Inspection and replacement of the fuses, contact your Toyota dealer.



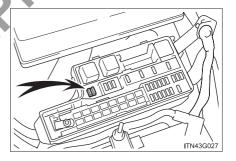
▶ Passenger's side instrument panel

Open the glove box. Push in each side of the glove box to disconnect the claws.



4 Remove the fuse.

Type A and B fuses can be removed using the pullout tool.



- 5 Check if the fuse is blown.
 - (1) Normal fuse
 - (2) Blown fuse

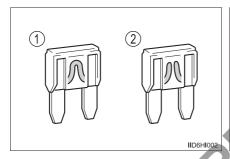
Type A, B and C:

Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

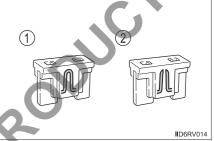
Type D, E and F:

Contact your Toyota dealer.

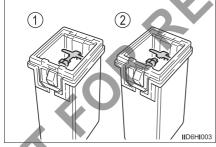
▶ Type A



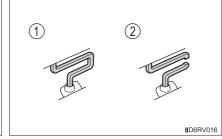
▶ Type B



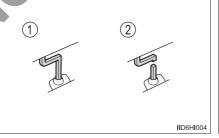
▶ Type C



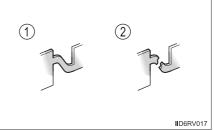
Type D



Type E



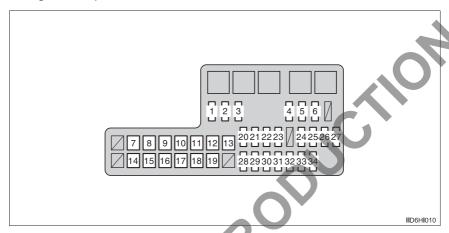
▶ Type F



Fuse layout and amperage ratings

The provision of fuses and systems connected to the circuit may differ depending on the model and specification.

▶ Engine compartment

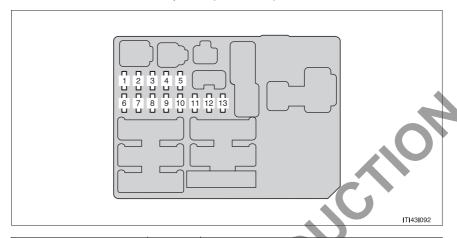


	Fuse	Ampere	Circuit
1	SPARE	25 A	Spare fuse
2	SPARE	15 A	Spare fuse
3	SPARE	10 A	Spare fuse
4	FOG	7.5 A	Fog lights
5	HORN	10 A	Horn
6	EFI	25 A	Multiport fuel injection system/sequential multiport fuel injection system
7	PTC NO.1	50 A	Power heater

	Fuse	Ampere	Circuit
8	PWR SEAT	30 A	Power seat
9	PTC NO.2	30 A	Power heater
10	RR CLR	40 A	No circuit
11	FR HTR	50 A	Air conditioning system, A/C
12	ABS NO.2	30 A	ABS, TRC, VSC
13	ABS NO.1	40 A	ABS, TRC, VSC
14	ALT	100 A	Charging system, PWR SEAT, FR HTR, RR CLR, AM1, IG1, PTC NO.1, PTC NO.2, PWR OUT, STOP TAIL, OBD
15	GLOW	80 A	Engine glow system
16	BATT P/I	50 A	FOG, HORN, EFI
17	AM2	30 A	Engine starter, ST, IGN, INJ, MET
18	MAIN	40 A	H-LP RH, H-LP LH, H-LP RL, H-LP LL
19	A/PUMP	50 A	Emission control system
20	H-LP RL	15 A	Right-hand headlight (low beam)
21	H-LP LL	15 A	Left-hand headlight (low beam)
22	H-LP RH	15 A	Right-hand headlight (high beam), right-hand headlight (low beam)
23	H-LP LH	15 A	Left-hand headlight (high beam), left-hand headlight (low beam)
24	ECU-IG-NO2	10 A	Charging system, air conditioning system, ABS, VSC

	Fuse	Ampere	Circuit
25	ECU-B	10 A	Door courtesy switches, power door lock system, wireless remote control system, steering sensor, headlights
26	RAD	20 A	Audio system
27	DOME	7.5 A	Interior lights, engine switch light, personal light, gauges and meters, clock, multi-information display, wireless remote control system, fog light
28	A/F	20 A	Emission control system
29	ETCS	10 A	Multiport fuel injection system/sequential multiport fuel injection system
30	ALT-S	7.5 A	Charging system
31	TURN-HAZ	15 A	Emergency flashers, turn signal lights
32	SIREN	7.5 A	No circuit
33	ECU-B No.2	7.5 A	Air conditioning system
34	DCC	30 A	ECU-B, DOME, RAD

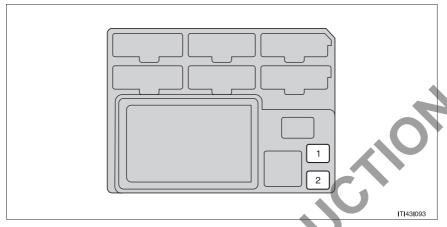
▶ Driver's side instrument panel (front side)



	Fuse	Ampere	Circuit
1	PWR OUT	15 A	Power outlet
2	TAIL	10 A	Instrument panel light, fog lights, front position lights, tail lights, license plate lights, multiport fuel injection system/ sequential multiport fuel injection system, multi-information display, automatic headlight system
3	STOP	10 A	Stop lights, high mounted stoplight, multi- port fuel injection system/sequential mul- tiport fuel injection system, ABS, TRC, VSC, shift lock control system
4	OBD	7.5 A	On-board diagnosis system
5	INJ	15 A	Multiport fuel injection system/sequential multiport fuel injection system

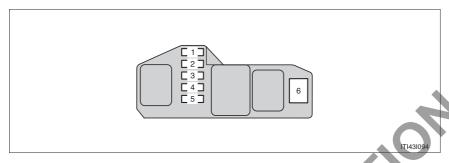
	Fuse	Ampere	Circuit
6	ECU-IG & GAUGE	10 A	Air conditioning system, charging system, ABS, TRC, VSC, emergency flashers, turn signal lights, back-up lights, multiport fuel injection system/sequential multiport fuel injection system, shift lock control system, rear window defogger, headlights, door courtesy switches, power door lock system, wireless remote control system, cruise control, steering sensor, multi-information display, passenger's seat belt reminder light
7	WIP	20 A	Windshield wiper and washer
8	IGN	7.5 A	Multiport fuel injection system/sequential multiport fuel injection system, SRS airbags, fuel pump
9	ACC	7.5 A	Audio system, power outlet, clock, power rear view mirror control system, shift lock control system, multi-information display
10	CIG	15 A	Cigarette lighter
11	MET	7.5 A	Gauges and meters
12	A/C	10 A	Air conditioning system
13	ST C	7.5 A	Starting system, gauges and meters, multiport fuel injection system/sequential multiport fuel injection system

▶ Driver's side instrument panel (rear side)



	Fuse	Ampere	Circuit
1	AM1	40 A	ABS, TRC, VSC, ACC, CIG, ECU-IG & GAUGE, WIP
2	IG1	40 A	PWR, S-HTR, 4WD, DOOR, DEF, MIR

▶ Passenger's side instrument panel



Fuse		Ampere	Circuit	
1	MIR-HTR	15 A	No circuit	
2	4WD	20 A	ABS, TRC, VSC	
3	S-HTR	15 A	No circuit	
4	DEF	20 A	Rear window defogger, multiport fuel injection system/sequential multiport fuel injection system	
5	DOOR	25 A	Power door lock system, power windows	
6	PWR	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. (\rightarrow P. 398)
- If the replaced fuse blows again, have the vehicle inspected by your Toyota dealer.

If there is an overload in a circuit

The fuses are designed to blow, protecting the wiring harness from damage



A CAUTION

■ To prevent system breakdowns and vehicle fire

Observe the following precautions.

Failure 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 that 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 fuses or fuse boxes.



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 by yourself. The difficulty level of replacement varies depending on the bulb. If necessary bulb replacement seems difficult to perform, contact your Toyota dealer.

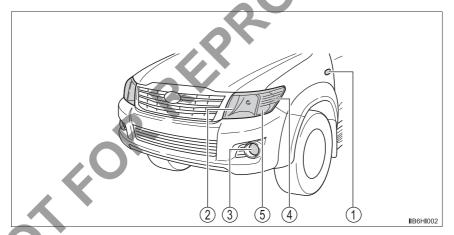
For more information about replacing other light bulbs, contact your Toyota dealer.

Preparing for light bulb replacement

Check the wattage of the light bulb to be replaced. (>P. 476)

Bulb locations

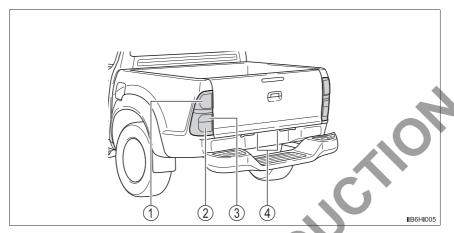
■ Front



- Side turn signal light*(fender-mounted type)
- (2) Headlight
- (3) Fog light*
 - *: If equipped

- 4 Front turn signal light
- 5 Front position light

■ Rear



- 1 Stop/tail lights
- 2 Back up light
- 3 Rear turn signal light

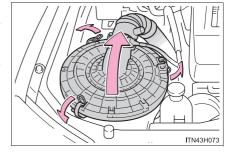
4 License plate lights

Replacing light bulbs

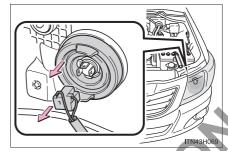
■ Headlight

Before replacing the bulbs
 (right side only [except for the 1GR-FE engine]):

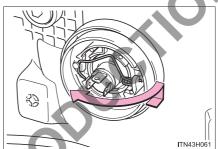
Release the clips of the air cleaner filter cover, and remove the cover to allow easy access to the light bulbs.



2 Unplug the connector and remove the rubber cover.

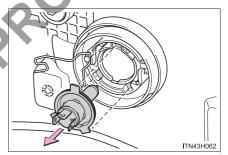


3 Release the bulb retaining spring.



4 Remove the bulb.

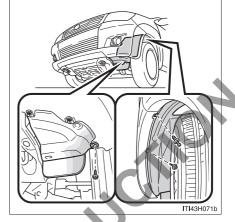
To install a new bulb, align the tabs of the bulb with the cutouts of the mounting hole.



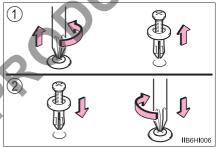
■ Front turn signal lights

1 To allow enough working space, turn the steering wheel to the opposite side of the bulb to be replaced.

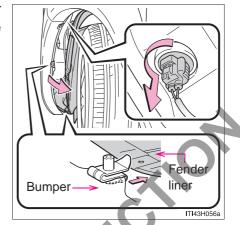
Remove the bolts and clip.



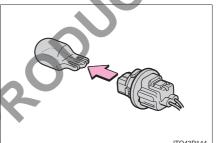
- 1 Removing the clip
- 2 Installing the clip



2 Partly remove the fender liner and turn the bulb base counterclockwise.

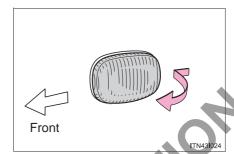


3 Remove the light bulb.

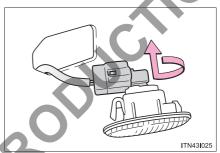


■ Side turn signal lights (fender-mounted type) (if equipped)

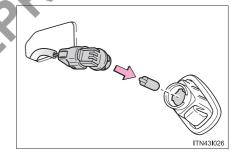
1 Remove the unit.



2 Turn the bulb base counterclockwise.



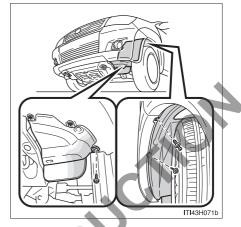
3 Remove the light bulb.



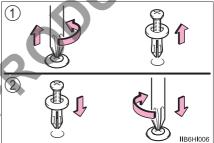
■ Fog lights (if equipped)

1 To allow enough working space, turn the steering wheel to the opposite side of the bulb to be replaced.

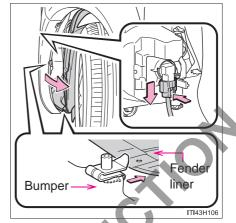
Remove the bolts and clip.



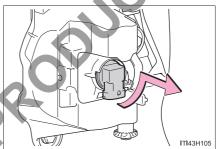
- 1 Removing the clip
- 2 Installing the clip



2 Partly remove the fender liner and unplug the connector while pressing the lock release.



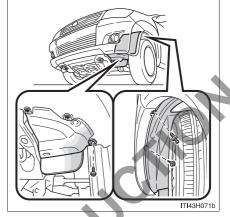
3 Turn the bulb base counterclockwise.



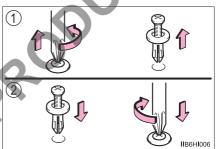
■ Front position lights

1 To allow enough working space, turn the steering wheel to the opposite side of the bulb to be replaced.

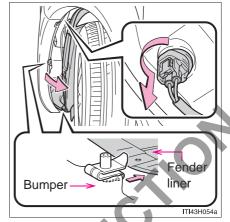
Remove the bolts and clip.



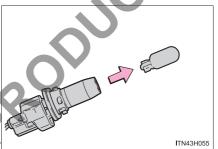
- 1 Removing the clip
- 2 Installing the clip



2 Partly remove the fender liner and turn the bulb base counterclockwise.

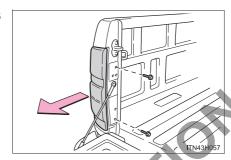


3 Remove the light bulb.

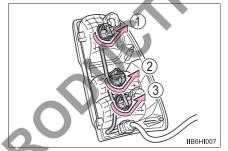


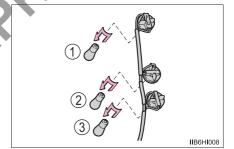
■ Stop/tail lights, rear turn signal lights and back-up lights

1 Remove the securing bolts and remove the unit.



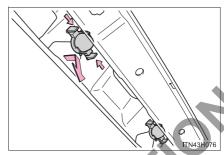
- 2 Turn the bulb base counterclockwise.
 - 1) Stop/tail light
 - 2 Rear turn signal light
 - 3 Back-up light
- 3 Remove the light bulb.
 - 1 Stop/tail light
 - 2 Rear turn signal light
 - 3 Back-up light



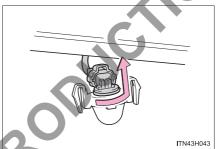


■ License plate lights

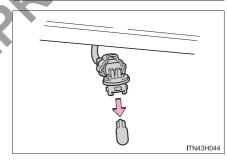
1 Remove the unit.



2 Turn the bulb base counterclockwise.



3 Remove the light bulb.



■ Replacing the following bulbs

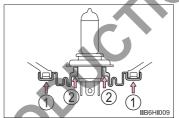
If any of the lights listed below has burnt out, have it replaced by your Toyota dealer.

- Side turn signal lights (mirror-mounted type) (if equipped)
- High mounted stoplight (if equipped)

■ When installing the rubber cover of the headlight

Ensure the rubber cover is securely attached.

- 1) Fit the rubber cover outer circumference in firmly.
- 2 Fit the rubber cover around the light bulb in until the light bulb plug can be seen.



■LED lights

The high mounted stoplight consists of a number of LEDs. If any of the LEDs burn out, take your vehicle to your Toyota dealer to have the light replaced.

■ 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 have built up on the inside of the lens.
- Water has built up inside the headlight.

A CAUTION

Replacing light bulbs

Turn off the lights. Do not attempt to replace the bulb immediately after turning off the lights.

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 clothto 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. Failure 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.
- Do not attempt to repair or disassemble light bulbs, connectors, electric circuits or component parts.

Doing so may result in death or serious injury due to electric shock.

To prevent damage or fire

- Make sure bulbs are fully seated and locked
- Check the wattage of the bulb before installing to prevent heat damage.



When trouble arises

7-1.	Essential information
	Emergency flashers414
	If your vehicle has to
	be stopped in an
	emergency415
7-2.	Steps to take in an
	emergency
	If your vehicle needs
	to be towed417
	If you think something is
	wrong422
	Fuel pump shut off
	system423
	If a warning light turns on
V	or a warning buzzer
	sounds424
•	If you have a flat tire429
	If the engine will not
	start445
	If the shift lever cannot
	be shifted from P446
	If the vehicle battery is
	discharged447
	If your vehicle overheats452
	If you run out of fuel
	and the engine stalls
	(diesel engine only)456
	If the vehicle becomes
	stuck457

Emergency flashers

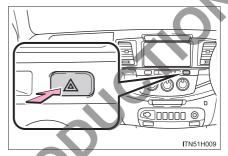
The emergency flashers are used to warn other drivers when the vehicle has to be stopped in the road due to a breakdown, etc.

▶ Vehicles without automatic air conditioning system

Press the switch.

All the turn signal lights will flash.

To turn them off, press the switch once again.

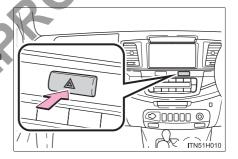


▶ Vehicles with automatic air conditioning system

Press the switch.

All the turn signal lights will flash.

To turn them off, press the switch once again.



■ Emergency flashers

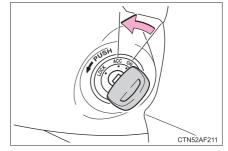
If the emergency flashers are used for a long time while the engine is not operating, the battery may discharge.

If your vehicle has to be stopped in an emergency

Only in an emergency, such as if it becomes impossible to stop the vehicle in the normal way, stop the vehicle using the following procedure:

- 1 Steadily step on the brake pedal with both feet and firmly depress it.

 Do not pump the brake pedal repeatedly as this will increase the effort required to slow the vehicle.
- 2 Shift the shift lever to N.
- ▶ If the shift lever is shifted to N
- 3 After slowing down, stop the vehicle in a safe place by the road.
- 4 Stop the engine.
- ▶ If the shift lever cannot be shifted to N
- 3 Keep depressing the brake pedal with both feet to reduce vehicle speed as much as possible.
- 4 Stop the engine by turning the engine switch to the "ACC" position.



5 Stop the vehicle in a safe place by the road.



A CAUTION

- If the engine has to be turned off while driving
 - Power assist for the brakes and steering wheel will be lost, making the brake pedal harder to depress and the steering wheel heavier to turn. Decelerate as much as possible before turning off the engine.
 - Never attempt to remove the key, as doing so will lock the steering wheel.

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 flatbed truck.

Use a safety chain system for all towing, and abide by all state/provincial and local laws.

Before towing

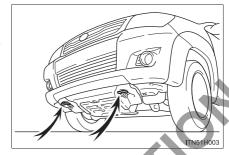
The following may indicate a problem with your transmission. Contact your Toyota dealer before towing.

- The engine is running but the vehicle will not move.
- The vehicle makes an abnormal sound.

Emergency towing

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 eyelet(s). This should only be 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.



Towing with a sling-type truck

Do not tow with a sling-type truck to prevent body damage.



Towing with a wheel-lift type truck

▶ From the front

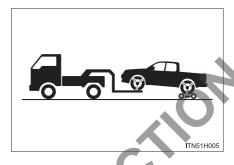
Vehicles with automatic transmission: Use a towing dolly under the rear wheels.

Vehicles with manual transmission: We recommend using a towing dolly under the rear wheels.

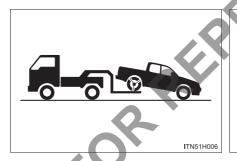
When not using a towing dolly, release the parking brake and shift the shift lever to N.

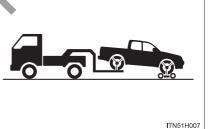
► From the rear (2WD models)

Turn the engine switch to the "ACC" position so that the steering wheel is unlocked.



➤ From the rear (4WD models)
Use a towing dolly under the front wheels.

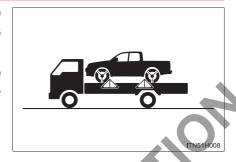




Using a flatbed truck

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.



■ Before emergency towing

- 1 Release the parking brake.
- 2 4WD models: Shift the front drive control lever to H2. (>P. 194)
- 3 Shift the shift lever to N.
- 4 Turn the engine switch to the "ACC" (engine off) or "ON" (engine running) position.

A 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 eyelets 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.



■To prevent causing serious damage to the transmission and transfer (4WD models) when towing using a wheel-lift type truck (vehicles with automatic transmission)

2WD models: Never tow this vehicle from the front with the rear wheels on the ground.

- 4WD models: Never tow this vehicle with any of the wheels in contact with the ground.
- To prevent damage to the vehicle when towing using a wheel-lift type truck (vehicles with manual transmission)
 - Do not tow the vehicle from the rear when the engine switch is in the "LOCK" position or the key is removed. The steering lock mechanism is not strong enough to hold the front wheels 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.
- To prevent body damage when towing with a sling-type truck

 Do not tow with a sling-type truck, either from the front or rear.

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 missing, stumbling or running roughly
- 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 when an airbag inflates upon collision, the fuel pump shut off system stops the supply of fuel to the engine.

Follow the procedure below to restart the engine after the system is activated.

- 1 Turn the engine switch to the "ACC" or "LOCK" position
- 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.

If a warning light turns on or a warning buzzer sounds

Calmly perform the following actions if any of the warning lights comes on or flashes. If a light comes on or flashes, but then goes off, this does not necessarily indicate a malfunction in the system. However, if this continues to occur, have the vehicle inspected by your Toyota dealer.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Toyota dealer.

Warning light	Warning light/Details	
(①)	Prake system warning light Low brake fluid Malfunction in the brake system This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released the system is operating normally. Low negative pressure in the vacuum tank (diesel engine)	

Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Toyota dealer.

Warning light	Warning light/Details	
===	Charging system warning light Indicates a malfunction in the vehicle's charging system	
متح:	Low engine oil pressure warning light Indicates that the engine oil pressure is too low	

Have the vehicle inspected by your Toyota dealer immediately.

Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Toyota dealer immediately.

Warning light	Warning light/Details	
	Malfunction indicator lamp Indicates: • Malfunction in the electronic engine control system or electronic throttle control system. • The boost pressure in the turbocharger is abnormally high.*1 (diesel engine)	
₽	 SRS warning light Indicates a malfunction in: The SRS airbag system; or The seat belt pretensioner system 	

Warning light	Warning light/Details		
(ABS)	ABS warning light Indicates a malfunction in: • The ABS; or • The brake assist system (vehicles with VSC system)		
2	Slip indicator light (if equipped) Indicates a malfunction in: • Vehicle stability control; or • Traction control		
(flashes)	Four-wheel drive indicator light (4WD models) Indicates a malfunction in the four-wheel drive system (→P. 194)		
Cruise control indicator light (if equipped) Indicates a malfunction in the cruise control system (→P. 182)			
A/T OIL TEMP	Automatic transmission fluid temperature warning light (if equipped) Indicates that the automatic transmission fluid temperature is too high.		
T-BELT Timing belt replacement warning light (diesel engin Indicates that the timing belt should be replaced			
	Fuel system warning light (diesel engine) (warning buzzer)*2 Indicates: • The amount of accumulated water in the fuel filter has reached the specified level if the light flashes. (→P. 374) • The fuel filter need to be replaced if the light comes on.		

^{*1:} Slow down until the lamp goes off.

^{2.} The buzzer will sound at the same time the warning light flashes.

Follow the correction procedures.

After taking the specified steps to correct the suspected problem, check that the warning light goes off.

Warning light	Warning light/Details	Correction procedure
	Open door warning light Indicates that a door is not fully closed	Check that all the doors are closed.
	Low fuel level warning light Indicates remaining fuel is approximately 11.4 L (3.0 gal., 2.5 Imp.gal.) or less	Refuel the vehicle.
(for driver)	Driver's seat belt reminder light (warning buzzer)* Warns the driver to fasten his/her seat belt	Fasten the seat belt.
PASSENGER (for front passenger)	Front passenger's seat belt reminder light (warn- ing buzzer)* Warns the front passenger to fasten his/her seat belt	Fasten the seat belt.
A/T P	Unengaged "Park" warning light (if equipped) The transmission "Park" mechanism is not engaged.	Shift front drive control lever to "H2" or "H4" or "L4".

^{*:} Driver's and passenger's seat belt buzzer:

The driver's and passenger's seat belt buzzer sounds to alert the driver and passenger that his or her seat belt is not fastened. The buzzer sounds intermittently for 30 seconds after the vehicle reaches a speed of 15 km/h (9 mph). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 90 more seconds.

■ If the malfunction indicator lamp comes on while driving

The malfunction indicator lamp will come on if the fuel tank becomes completely empty. If the fuel tank is empty, refuel the vehicle immediately. The malfunction indicator lamp will go off after several trips.

If the malfunction indicator lamp does not go off, contact your Toyota dealer as soon as possible.

■ Key reminder buzzer

The buzzer indicates that the key has not been removed with the engine off and the driver's door opened.



A CAUTION

■If both the ABS and the brake system warning lights remain on (vehicles with VSC system)

Stop your vehicle in a safe place immediately and contact your Toyota dealer. The vehicle will become extremely unstable during braking, and the ABS system may fail, which could cause an accident resulting in death or serious injury.



NOTICE

If the malfunction indicator lamp comes on when the boost pressure in the turbocharger is abnormally high (diesel engine)

Never drive at high speed or race the engine even after the lamp goes off.

If the fuel system warning light flashes (diesel engine)

Never drive the vehicle with the warning light flashing. Continued driving with water accumulated in the fuel filter will damage the fuel injection pump.

If you have a flat tire

Remove the flat tire and replace it with the spare tire provided.

For details about tires: \rightarrow P. 375



A CAUTION

If you have a flat tire

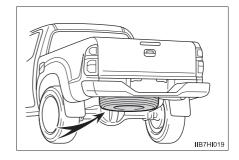
Do not continue driving with a flat tire.

Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair, which could result in an accident.

Before jacking up the vehicle

- Stop the vehicle on a hard, flat surface.
- Set the parking brake.
- Shift the shift lever to P (automatic transmission) or R (manual transmission).
- Stop the engine.
- Turn on the emergency flashers. (→P. 414)

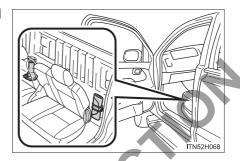
Location of the spare tire



Location of the jack and tools

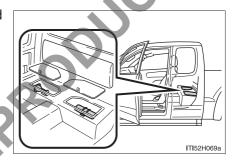
▶ Single-cab models

The jack and tools are stored behind the seat.



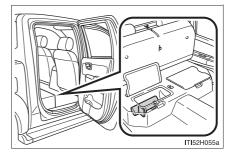
► Extra-cab models

The jack and tools are stored under the lid.



▶ Double-cab models

The jack and tools are stored under the bottom cushion.



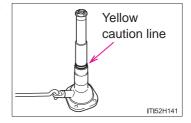


A CAUTION

Using the tire jack

Improper use of the tire jack may cause the vehicle to suddenly fall off the jack, leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire. Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the correct jack up point.
- Do not put any part of your body under the vehicle while it is supported by the jack.
- Do not start or run the engine while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Do not continue jacking up once the yellow caution line has appeared.



Use a jack stand if it is necessary to get under the vehicle.

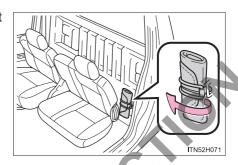
Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

Using the jack handle

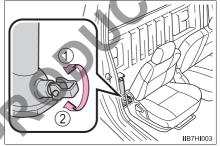
Tighten all the jack handle bolts securely using a Phillips-head screwdriver or your hand, to prevent the extension parts from coming apart unexpectedly.

Taking out the jack and tool bag

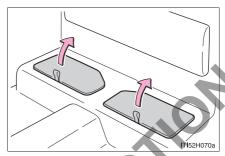
- ▶ Single-cab models
- 1 Unhook the strap and take out the tool bag.



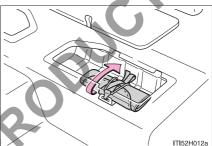
- 2 Take out the jack.
 - 1 For loosening
 - 2 For tightening



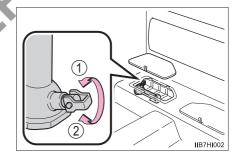
- ► Extra-cab models
- 1 Remove the rear seat cushions. (→P. 111)
- 2 Pull the tag and open the lid.



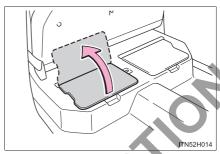
3 Unhook the strap and take out the tool bag.



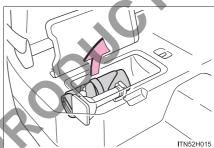
- 4 Take out the jack.
 - 1 For loosening
 - 2 For tightening



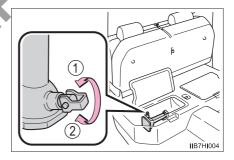
- ▶ Double-cab models
- 1 Tumbling the bottom cushion (\rightarrow P. 112)
- 2 Open the lid.



3 Take out the tool bag.



- 4 Take out the jack.
 - 1 For loosening
 - 2 For tightening

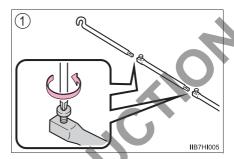


Taking out the spare tire

1 Assembling the jack handle.

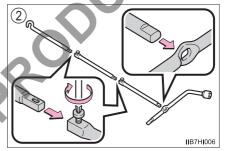
Remove the jack handle end, jack handle extensions and wheel nut wrench from the tool bag and assemble by following these steps.

1 Loosen the bolts using a screwdriver.



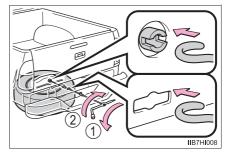
2 Assemble the jack handle end, jack handle extensions and wheel nut wrench and tighten the bolts.

Check that the bolts are firmly tightened.

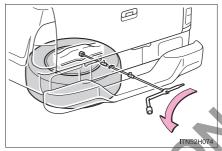


- 2 Insert the jack handle extension into the lowering screw.
 - (1) Lower
 - 2 Raise

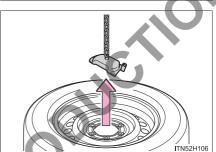
Place a rag under the jack handle extension to protect the bumper.



3 Lower the spare tire completely to the ground.

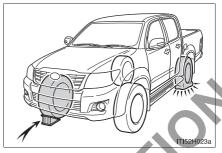


4 Remove the holding bracket and pull out the spare tire.



Replacing a flat tire

1 Chock the tires.



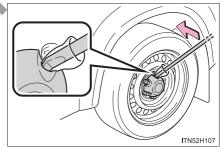
	Flat tire	Wheel chock positions
Front	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire

2 Remove the wheel ornament.

▶ Type A

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

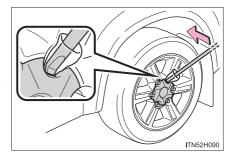
To protect the wheel ornament, place a rag between the wheel nut wrench and the wheel ornament.



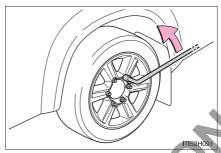
Type B

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

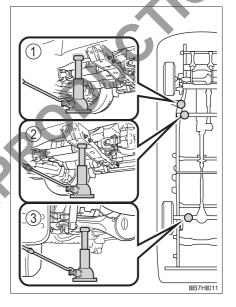
To protect the wheel ornament, place a rag between the wheel nut wrench and the wheel ornament.



3 Slightly loosen the wheel nuts (one turn).

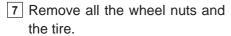


- 4 Assembling the jack handle. (→P. 435)
- 5 Position the jack at the jack points as shown.
 - 1 Front (2WD models)
 Under the front side rail
 - ② Front (4WD models)
 Under the cross member
 - 3 Rear
 Under the rear axle housing



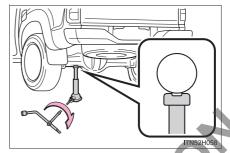
6 Raise the vehicle until the tire is slightly raised off the ground.

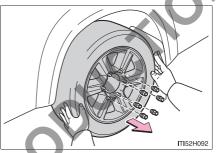
When positioning the jack under the rear axle housing, make sure the groove on the top of the jack fits with the rear axle housing.



When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

8 For some models, remove the wheel ornament by pushing from the reverse side.







A CAUTION

Replacing a flat tire

Observe the following precautions.

Failure to do so may result in serious injury:

- Lower the spare tire completely to the ground before removing it from. under the vehicle.
- Do not try to remove the wheel ornament by hand. Take due care in handling the ornament to avoid unexpected personal injury.
- Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven.
 - After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.
- Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.
 - 2WD models, have the wheel nuts tightened with a torque wrench to 152 Nem (15.5 kgfem, 112 ftelbf) as soon as possible after changing wheels.
 - 4WD models, have the wheel nuts tightened with a torque wrench to 105 Nem (10.7 kgfem, 77 ftelbf) as soon as possible after changing wheels.
 - Do not attach a heavily damaged wheel ornament, as it may fly off the wheel while the vehicle is moving.
 - When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
 - If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Toyota dealer.
 - When installing the wheel nuts, be sure to install them with the tapered ends facing inward. (→P. 381)

Installing the spare tire

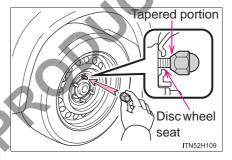
1 Remove any dirt or foreign matter from the wheel contact surface

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.

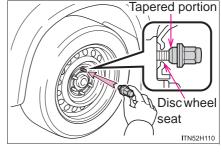


2 Install the tire and loosely tighten each wheel nut by hand by approximately the same amount.

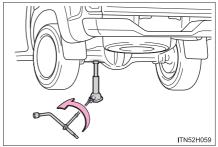
When replacing a steel wheel with a steel wheel, tighten the wheel nuts until the tapered portion comes into loose contact with the disc wheel seat.



When replacing an aluminum wheel with a steel wheel, tighten the wheel nuts until the tapered portion comes into loose contact with the disc wheel seat.



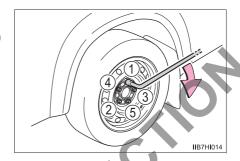
3 Lower the vehicle.



- 4 Firmly tighten each wheel nut two or three times in the order shown in the illustration.
 - ▶ 2WD models

Tightening torque:

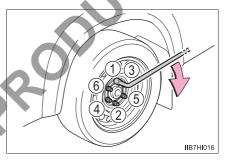
152 Nem (15.5 kgfem, 112 ftelbf)



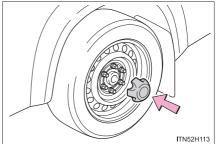
▶ 4WD models

Tightening torque:

105 N•m (10.7 kgf•m, 77 ft•lbf)

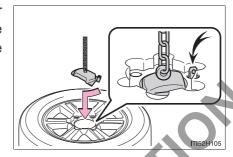


5 Vehicles with spare tire of the same wheel type as the installed tires: Reinstall the wheel ornament.



Stowing the flat tire, jack and all tools

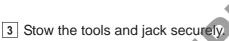
1 Lay down the tire with the outer side facing up, and hook the holding bracket as shown in the illustration.

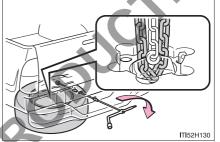


2 Raise the tire.

After the tire goes half way up, check that the suspended chain is able to enter the tire hole, for proper storage.

Check the tire from the side to see that the tire is stored horizontally.







A CAUTION

■ After using the tools and jack

Before driving, make sure all the tools and jack are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.



NOTICE

When stowing the flat tire

Ensure that there is no object caught between the tire and the vehicle underbody.

■ When assembling the jack handle extension

Tighten all the joints securely. Otherwise the extension may come off and it may damage the paint or vehicle body.

If the engine will not start

If the engine will not start even though correct starting procedures are being followed (\rightarrow P. 154), consider each of the following points:

The engine will not start even though the starter motor operates normally.

One of the following may be the cause of the problem:

There may not be sufficient fuel in the vehicle's tank.
 Gasoline engine: Refuel the vehicle.

Diesel engine: →P. 456

- The engine may be flooded. (gasoline engine)
 Try to restart the engine again following correct starting procedures.
 (→P. 154)
- There may be a malfunction in the engine immobilizer system.
 (→P. 78)

The starter motor turns over slowly, the interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- The battery may be discharged. (→P. 447)
- The battery terminal connections may be loose or corroded.

The starter motor does not turn over, the interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- One or both of the battery terminals may be disconnected.
- The battery may be discharged. (→P. 447)
 Contact your Toyota dealer if the problem cannot be repaired, or if repair procedures are unknown.

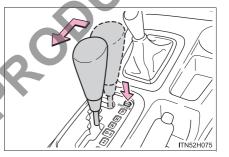
If the shift lever cannot be shifted from P*

If the shift lever cannot be shifted with your foot on the brake pedal, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Toyota dealer immediately.

The following steps may be used as an emergency measure to ensure that the shift lever can be shifted:

- 1 Set the parking brake.
- Turn the engine switch to the "ACC" position.
- 3 Depress the brake pedal.
- 4 Press the shift lock override button.

The shift lever can be shifted while the button is pressed.



If the vehicle battery is discharged

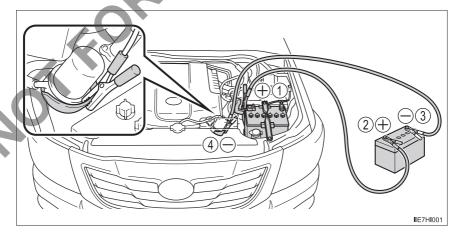
The following procedures may be used to start the engine if the vehicle's battery is discharged.

You can also call your Toyota dealer or a qualified repair shop.

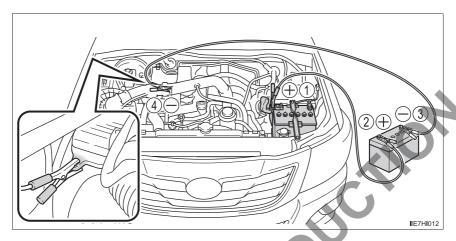
If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle by following the steps below.

- 1 Open the hood. (\rightarrow P. 359)
- 2 Connect the jumper cables according to the following procedure:
 - 1 Connect a positive jumper cable clamp to the positive (+) battery terminal on your vehicle.
 - 2 Connect the clamp on the other end of the positive cable to the positive (+) battery terminal on the second vehicle.
 - 3 Connect a negative cable clamp to the negative (-) battery terminal on the second vehicle.
 - 4 Connect the clamp at the other end of the negative cable to a solid, stationary, unpainted metallic point away from the battery and any moving parts, as shown in the illustration.

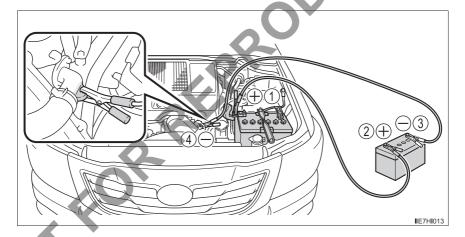
▶ 1GR-FE engine



▶ 2TR-FE engine



▶ 1KD-FTV engine



- 3 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately 5 minutes to recharge the battery of your vehicle.
- 4 Maintain the engine speed of the second vehicle and start the engine of your vehicle.
- 5 Once the vehicle's engine has started, remove the jumper cables in the exact reverse order from which they were connected.

Once the engine starts, have the vehicle inspected at your Toyota dealer as soon as possible.

Starting the engine when the battery is discharged (vehicles with automatic transmission)

The engine cannot be started by push-starting.

■ To prevent battery discharge

- Turn off the headlights and the audio system while the engine is off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.
- When the battery is removed or discharged (vehicles with power windows only)

The power windows must be initialized. (→P. 122)

■ Charging the battery

The electricity stored in the battery will discharge gradually even when the vehicle is not in use, due to natural discharge and the draining effects of certain electrical appliances. If the vehicle is left for a long time, the battery may discharge, and the engine may be unable to start. (The battery recharges automatically during driving.)

A CAUTION

Avoiding battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery:

- Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any other than the intended terminal.
- Do not allow the + and clamps of the jumper cables to come into contact with each other.
- Do not smoke, use matches, cigarette lighters or allow open flame near the battery.

Battery precautions

The battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the battery:

- When working with the battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention. Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the battery.
- To prevent damage to the vehicle (vehicles with manual transmission)

 Do not pull- or push-start the vehicle as the three-way catalytic converter or catalytic converter may overheat and become a fire hazard.



■When handling jumper cables

When connecting the jumper cables, ensure that they do not become entangled in the cooling fan or belt.

If your vehicle overheats

The following may indicate that your vehicle is overheating.

- The needle of the engine coolant temperature gauge (→P. 86) enters the red zone or a loss of engine power is experienced. (For example, the vehicle speed does not increase.)
- Steam comes out from under the hood.

Correction procedures

- 1 Stop the vehicle in a safe place and turn off the air conditioning system, and then stop the engine.
- 2 If you see steam:

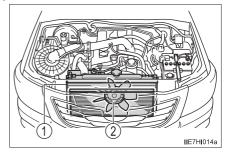
Carefully lift the hood after the steam subsides.

If you do not see steam:

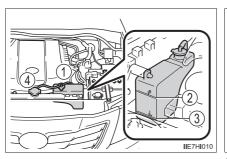
Carefully lift the hood.

- 3 After the engine has cooled down sufficiently, inspect the hoses and radiator core (radiator) for any leaks.
 - (1) Radiator
 - 2 Cooling fan

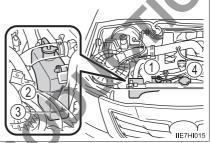
If a large amount of coolant leaks, immediately contact your Toyota dealer.



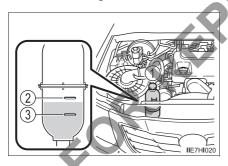
- 4 The coolant level is satisfactory if it is between the upper and lower lines on the reservoir.
 - (1) Reservoir
 - 2 Upper line
 - 3 Lower line
 - 4 Radiator cap (if equipped)
 - ▶ 1GR-FE engine



▶ 2TR-FE engine



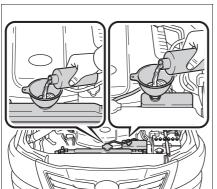
▶ 1KD-FTV engine



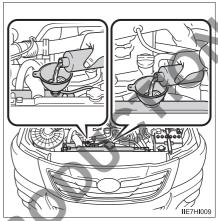
5 Add engine coolant if necessary.

Water can be used in an emergency if engine coolant is unavailable. $(\rightarrow P. 470)$

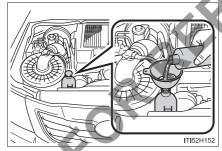
▶ 1GR-FE engine



▶ 2TR-FE engine



▶ 1KD-FTV engine



- 6 Start the engine and check that the radiator cooling fan operates to check for coolant leaks from the radiator or hoses.
- If the fan is not operating:

Stop the engine immediately and contact your Toyota dealer.

If the fan is operating:

Have the vehicle inspected at the nearest Toyota dealer.



A CAUTION

■ When inspecting under the hood of your vehicle

Observe the following precautions.

Failure to do so may result in serious injury such as burns.

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot.
- Keep hands and clothing (especially a tie, a scarf or a muffler) away from the fans and belts. Failure to do so may cause the hands or clothing to be caught, resulting in serious injury.
- Do not loosen the radiator cap or the coolant reservoir cap while the engine and radiator are hot. High temperature steam or coolant could spray out.



NOTICE

When adding engine coolant

Add coolant slowly after the engine has cooled down sufficiently. Adding cool coolant to a hot engine too quickly can cause damage to the engine.

■ To prevent damage to the cooling system

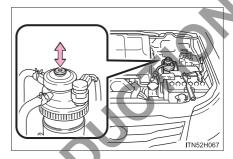
Observe the following precautions:

- Avoid contaminating the coolant with foreign matter (such as sand or dust etc.).
- Do not use commercially available coolant additives.

If you run out of fuel and the engine stalls (diesel engine only)

If you run out of fuel and the engine stalls:

- 1 Refuel your vehicle.
- 2 To bleed the fuel system, operate the priming pump until you feel more resistance.



3 Start the engine. (\rightarrow P. 154)

If the engine does not start after the above steps have been performed, wait for 10 seconds and try step 2 and 3 again. If the engine still does not start, contact your Toyota dealer.

After starting the engine, depress the accelerator pedal lightly until the engine runs smoothly.



NOTICE

■ When restarting the engine

- Do not crank the engine before refueling and operating the priming pump.
 This may damage the engine and fuel system.
- Do not crank the engine for more than 30 seconds at a time. This may overheat the starter and wiring system.

If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt or snow:

- 1 Stop the engine. Set the parking brake and shift the shift lever to P (automatic transmission) or N (manual transmission).
- 2 Remove the mud, snow or sand from around the stuck tire.
- 3 Place wood, stones or some other material under the tires to help provide traction.
- 4 Restart the engine.
- 5 Shift the shift lever to the D or R position (automatic transmission) or 1 or R position (manual transmission) and carefully apply the accelerator to free the vehicle.

For vehicles with VSC system, turn off TRC and VSC if these functions are hampering your attempts to free the vehicle. (\rightarrow P. 199)

A CAUTION

When attempting to free a stuck vehicle

If you choose to push the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

When shifting the shift lever

For vehicles with automatic transmission, be careful not to shift the shift lever with the accelerator pedal depressed.

This may lead to unexpected rapid acceleration of the vehicle that may cause an accident resulting in death or serious injury.



NOTICE

■ To avoid damage to the transmission and other components

- Avoid spinning the wheels and depressing the accelerator pedal more than necessary.
- If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.

8-1. Specifications

Maintenance data
(fuel, oil level, etc.).....460
Fuel information......477

8-2. Initialization

Items to initialize479

Maintenance data (fuel, oil level, etc.)

Dimensions

Overall length			5135 mm (202.2 in.)*2 5260 mm (207.1 in.)*3
Overall width			1760 mm (69.3 in.)*4 1835 mm (72.2 in.)*5
Overall*1 height	2WD	Single-cab models	1680 mm (66.1 in.)
		Extra-cab models	1720 mm (67.7 in.)
		Double-cab models	1735 mm (68.3 in.)
	4WD	Single-cab models	1805 mm (71.1 in.)
		Extra-cab models	1845 mm (72.6 in.)
		Double-cab models	1860 mm (73.2 in.)
Wheelbase		K	3085 mm (121.5 in.)
Front and rear tread			1510 mm (59.4 in.)*6 1540 mm (60.6 in.)*7 1500 mm (59.1 in.)*8

^{*1:} Unladen vehicle

^{*2:} Without rear bumper

^{*3:} With rear bumper

^{*4:} Without over fender

^{*5:} With over fender

^{*6:} With 205/70R15C tires

^{*7:} With 265/65R17 tires

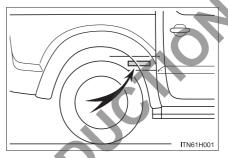
^{*8:} With 225/70R17C tires

Vehicle identification

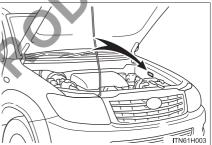
■ Vehicle identification number

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 rear right frame.



This number is also on the manufacture's plate.

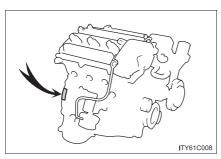


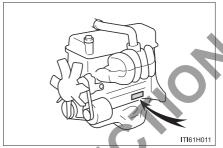
■ Engine number

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

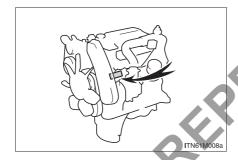
▶ 1GR-FE engine







▶ 1KD-FTV engine



Engine

▶ 1GR-FE engine

Model	1GR-FE
Туре	6 cylinder V type, 4 cycle, gasoline
Bore and stroke	94.0 × 95.0 mm (3.70 × 3.74 in.)
Displacement	3956 cm ³ (241.4 cu.in.)
Valve clearance (engine cold)	Intake: 0.15 — 0.25 mm (0.006 — 0.010 in.) Exhaust: 0.29 — 0.39 mm (0.011 — 0.015 in.)
Drive belt tension	Automatic adjustment

▶ 2TR-FE engine

Model	2TR-FE
Туре	4 cylinder in line, 4 cycle, gasoline
Bore and stroke	95.0 × 95.0 mm (3.74 × 3.74 in.)
Displacement	2694 cm ³ (164.4 cu.in.)
Valve clearance (engine cold)	Automatic adjustment
Drive belt tension	Automatic adjustment

▶ 1KD-FTV engine

Model	1KD-FTV
Туре	4 cylinder in line, 4 cycle, diesel (with turbocharger)
Bore and stroke	96.0 × 103.0 mm (3.78 × 4.06 in.)
Displacement	2982 cm ³ (182.0 cu.in.)
Valve clearance (engine cold)	Intake: 0.20 — 0.30 mm (0.008 — 0.012 in.) Exhaust: 0.35 — 0.45 mm (0.014 — 0.018 in.)
Drive belt tension	Automatic adjustment

Fuel

▶ Gasoline engine

Fuel type		Unleaded gasoline only
Research Octane Number	1GR-FE engine	95 or higher
	2TR-FE engine	91 or higher
Fuel tank capacity (Reference)		76 L (20.1 gal., 16.7 lmp.gal.)

▶ Diesel engine

Fuel type	Diesel fuel only
Cetane number	48 or higher
Fuel tank capacity (Reference)	76 L (20.1 gal., 16.7 lmp.gal.)

Lubrication system

▶ Gasoline engine

Oil capacity (Drain and refill — reference*)	
With filter	▶1GR-FE engine
	5.5 L (5.8 qt., 4.8 Imp.qt.)
	▶2TR-FE engine
	5.6 L (5.9 qt., 4.9 Imp.qt.)
Without filter	▶1GR-FE engine
	5.2 L (5.5 qt., 4.6 Imp ₂ qt.)
	▶ 2TR-FE engine
	5.3 L (5.6 qt., 4.7 lmp.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:

5W-30 and 10W-30:

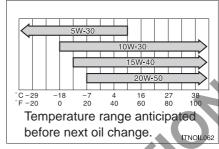
API grade SL "Energy-Conserving", SM "Energy-Conserving", SN "Resource-Conserving" or ILSAC multigrade engine oil

15W-40 and 20W-50:

API grade SL, SM or SN multigrade engine oil

Recommended viscosity (SAE):

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



Oil viscosity (10W-30 is explained here as an example).

- The 10W in 10W-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 10W-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 labels:

Either or both API registered marks are added to some oil containers to help you select the oil you should use.

1 API Service Symbol

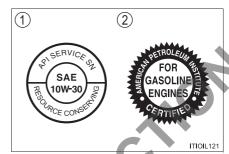
Top portion: The oil quality designation by API (American Petroleum Institute) (SN)

Center portion: The SAE viscosity grade (SAE 10W-30)

Lower portion: "Resource-Conserving" means that the oil has fuel saving and environmental protection capabilities.

(2) ILSAC Certification Mark

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



▶ Diesel engine

Oil capacity (Drain and refill — reference*)	
	6.9 L (7.3 qt., 6.1 lmp.qt.) 6.6 L (7.0 qt., 5.8 lmp.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

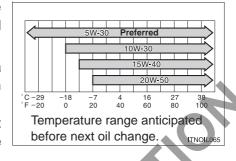
"Toyota Genuine Motor Oil" is used in your Toyota vehicle. Use Toyota approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

Oil grade: API CF-4, CF or ACEA B1

Recommended viscosity (SAE):

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

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



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.

Cooling system

	1GR-FE engine	9.8 L (10.4 qt., 8.6 Imp.qt.)
2TR-FE engine		➤ With manual transmission 7.8 L (8.2 qt., 6.9 lmp.qt.) ➤ With automatic transmission 8.1 L (8.6 qt., 7.1 lmp.qt.)
	1KD-FTV engine	➤ With manual transmission 9.8 L (10.4 qt., 8.6 Imp.qt.) ➤ With automatic transmission 11.1 L (11.7 qt., 9.8 Imp.qt.)
Coolant type		Use either of the following: • "Toyota Super Long Life Coolant" • Similar high-quality ethylene glycolbased 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	
Make	▶1GR-FE engine
	DENSO K20HR-U11 NGK LFR6C11
	▶2TR-FE engine
	DENSO K20HR-U11
Gap	1.1 mm (0.043 in.)

Electrical system

Battery	
Specific gravity reading	1.250 — 1.290 Fully charged
at 20°C (68°F):	1.160 — 1.200 Half charged
	1.060 — 1.100 Discharged
Charging rates	
Quick charge	15 A max.
Slow charge	5 A max.

Automatic transmission

▶ 4-speed models

Fluid capacity*	10.1 L (10.7 qt., 8.9 Imp.qt.)
Fluid type	Toyota Genuine ATF Type T-IV

▶ 5-speed models

Fluid capacity*	10.6 L (11.2 qt., 9.3 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

Using transmission fluid other than "Toyota Genuine ATF Type T-IV" (4-speed models) or "Toyota Genuine ATF WS" (5-speed models) may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the transmission of your vehicle.

Manual transmission

Oil capacity	2WD models	2.6 L (2.7 qt., 2.3 Imp.qt.)	
	4WD models	2.2 L (2.3 qt., 1.9 Imp.qt.)	
Oil type		Gear oil API GL-4	
		▶ For Australia	
Recommended oil viscosity	SAE 75W-90, 80W or 80W-90		
	▶ For other countries		
		SAE 75W-90	

Transfer

Oil capacity	1.0 L (1.1 qt., 0.9 Imp.qt.)	
Oil type	Gear oil API GL-4 or GL-5	
Recommended oil viscosity	SAE 75W-90	

Differential

	2WD models		3.20 L (3.38 qt., 2.82 Imp.qt.)
Oil capacity	Dil capacity 4WD models	Front	1.45 L (1.53 qt., 1.28 lmp.qt.)*1 1.65 L (1.74 qt., 1.45 lmp.qt.)*2
		Rear	3.35 L (3.54 qt., 2.95 lmp.qt.)
Oil turns	Without LSD With LSD		Hypoid gear oil API GL-5
Oil type			Hypoid gear oil LSD API GL-5
Oil viscosity	viscosity Without A.D.D. With A.D.D.		Above -18°C (0°F): SAE90 Below -18°C (0°F): SAE80W or SAE80W-90
			SAE 75W-90

^{*1:} Without A.D.D.

Clutch

Pedal free play	5 — 15 mm (0.2 — 0.6 in.)
Fluid type	SAE J1703 or FMVSS No.116 DOT 3

^{*2:} With A.D.D.

Brakes

Pedal clearance*1	2WD models	82 mm (3.2 in.)
r edai diearance	4WD models	83 mm (3.3 in.)
Pedal free play		1.0 — 6.0 mm (0.04 — 0.24 in.)
Parking brake lever travel*2	2WD models	6 — 8 clicks
raiking brake lever traver	4WD models	7—9 clicks
Fluid type		SAE J1703 or FMVSS No.116 DOT 3

^{*1:} Minimum pedal clearance when depressed with a force of 490 N (50 kgf, 110 lbf) while the engine is running.

Chassis Iubrication

	Spider	Lithium base chassis grease, NLGI No.2
Propeller shafts	Slide yoke	Molybdenum-disulfide lithium base chassis grease, NLGI No.2 or lithium base chassis grease, NLGI No.2

Steering

Free play	Less than 30 mm (1.2 in.)
Power steering fluid type	Automatic transmission fluid DEXRON® II or III

^{*2:} Parking brake lever travel when pulled up with a force of 200 N (20.4 kgf, 45.0 lbf)

Tires and wheels

▶ 15 inch tires

Tire size	Э	205/70R15C 106/104S			
Tire inflation pressure (Recommended cold tire inflation pressure)		Front wheel kPa (kgf/cm² or bar, psi)	Rear wheel (unloaded) kPa (kgf/cm ² or bar, psi)	Rear wheel (loaded) kPa (kgf/cm² or bar, psi)	
	Single-cab models	240 (2.4, 35)	330 (3.3, 48)	450 (4.5, 65)	
	Extra-cab model	260 (2.6, 38)	290 (2.9, 42)	400 (4.0, 58)	
	Double-cab models	260 (2.6, 38)	290 (2.9, 42)	350 (3.5, 51)	
Wheel size		15 × 6JJ			
Wheel nut torque		➤ Steel wheels			
		152 N•m (15.5 kgf•m, 112 ft•lbf)			
		➤ Aluminum wheels			
		121 N•m (12.3 kgf•m, 89 ft•lbf)			

▶ 17 inch tires (type A)

Tire size	265/65R17 112S
Tire inflation pressure (Recommended cold tire inflation pressure)	200 kPa (2.0 kgf/cm ² or bar, 29 psi)
Wheel size	17 × 7 1/2J
Wheel nut torque	105 N•m (10.7 kgf•m, 77 ft•lbf)

▶ 17 inch tires (type B)

	1		
Tire size	225/70R17C 108/106S		
Tire inflation pressure (Recommended cold tire inflation pressure)	Front wheel kPa (kgf/cm ² or bar, psi)	Rear wheel (unloaded) kPa (kgf/cm ² or bar, psi)	Rear wheel (loaded) kPa (kgf/cm ² or bar, psi)
	240 (2.4, 35)	240 (2.4, 35)	300 (3.0, 44)
Wheel size	17 × 6J		
Wheel nut torque	105 N•m (10.7 kgf•m, 77 ft•lbf)		

Light bulbs

	Light bulbs	W	Туре
	Headlights	60/55	А
	Fog lights*	19	В
	Front position lights	5	C
	Front turn signal lights	21	D
Exterior	Side turn signal lights Fender-mounted type Mirror-mounted type	5 5	O D
	Rear turn signal lights	21	E
	Back-up lights	21	F
	License plate lights	5	С
	Stop/tail lights	21/5	F
Interior	Interior light	8	G
IIICIIOI	Personal lights*	8	С

A: H4 halogen bulbs

B: H16 halogen bulbs

C: Wedge base bulbs (clear)

D: Wedge base bulbs (amber)

E: Single end bulbs (amber)

F: Single end bulbs (clear)

G: Double end bulbs

*: If equipped

Fuel information

Gasoline engine

▶ 1GR-FE engine

You must only use unleaded gasoline in your vehicle.

For optimum engine performance, select premium unleaded gaso line with a Research Octane Number of 95 or higher.

If this premium type cannot be obtained, you may temporarily use unleaded gasoline with a Research Octane Number as low as 91.

▶ 2TR-FE engine

You must only use unleaded gasoline.

For optimum engine performance, select unleaded gasoline with a Research Octane Number of 91 or higher

Diesel engine

You must only use diesel fuel with a cetane number of 48 or higher.

■ Fuel tank opening for unleaded gasoline

To help prevent incorrect fueling, your vehicle 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.



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 will cause the three-way catalytic converter to lose its effectiveness and the emission control system to function improperly.

■ Notice on diesel fuel quality

FAME (Fatty Acid Methyl Ester) fuel sold under names such as "B30" or "B100" and fuel containing a large amount of FAME should not be used. Your vehicle can use diesel mixed with 5% max biodiesel FAME (B5).

The use of fuel with more than \$% FAME content (B5) will damage the vehicle's fuel system. You must ensure that refueling is carried out only from a source where fuel specification and quality can be guaranteed. In case of any doubt, ask your Toyota dealer.

Items to initialize

The following item must be initialized for normal system operation after such cases as the battery is reconnected, or maintenance is performed on the vehicle.

Item	When to initialize	Reference
Power windows (if equipped)	After reconnecting or changing the battery	P. 121

Index

What to do if...
(Troubleshooting)......482
Alphabetical index.....486

For vehicles with a navigation system, refer to the "Navigation System Owner's Manual" for information regarding the navigation system.

What to do if... (Troubleshooting)

If you have a problem, check the following before contacting your Toyota dealer.

The doors cannot be locked, unlocked, opened or closed



You lose your keys

 If you lose your keys, new genuine keys can be made by your Toyota dealer. (→P. 99)



The doors cannot be locked or unlocked (vehicles with wireless remote control)

- Is the key battery weak or depleted? (\rightarrow P. 384)
- The function may not operate properly due to the condition of the radio wave. (→P 101)



The rear door cannot be opened (vehicles with rear door child-protector lock)

● Is the rear door child-protector lock set?

The rear door cannot be opened from inside the vehicle when the lock is set. Open the rear door from outside and then unlock the rear door child-protector lock. (→P. 104)

If you think something is wrong



The engine does not start

- Vehicles with manual transmission
 Do you turn the key with the clutch pedal depressed firmly?
 (→P. 154)
- Vehicles with automatic transmission Is the shift lever in P? (→P. 154)
- Is the battery discharged? (→P. 447)



The shift lever cannot be shifted from P even if you depress the brake pedal (vehicles with automatic transmission)

• Is the engine switch in the "ON" position?
If you cannot release the shift lever by depressing the brake pedal with the engine switch in the "ON" position: →P. 446



The steering wheel cannot be turned after the engine is stopped

• It is locked to prevent theft of the vehicle if the key is removed from the engine switch. (\rightarrow P. 156)



The windows do not open or close by operating the power window switches (if equipped)

• Is the window lock switch pressed? The power window except for the one at the driver's seat cannot be operated if the window lock switch is pressed. (→P. 122)



A warning buzzer sounds during driving

 The seat belt reminder light is flashing (vehicles with seat belt reminder buzzer)

Are the driver and the front passenger wearing the seat belts? $(\rightarrow P. 427)$

The brake system warning light is on Is the parking brake released? (→P. 167)

Depending on the situation, other types of warning buzzer may also sound. $(\rightarrow P. 424)$



A warning light turns on

When a warning light turns on, refer to P. 424.

When a problem has occurred



If you have a flat tire

 Stop the vehicle in a safe place and replace the flat tire with the spare tire. (→P. 429)



The vehicle becomes stuck

Try the procedure for when the vehicle becomes stuck in mud, dirt, or snow. (→P. 457)

Alphabetical index

^	
A/C210	
Air conditioning filter	382
Automatic air conditioning	
system	217
Manual air conditioning	
system	210
ABS (Anti-lock Brake	
System)	
Function	198
Warning light	
Air conditioning filter	382
Air conditioning	
system210	
Air conditioning filter	382
Automatic air conditioning	
system	217
Manual air conditioning	
system	
Airbags	42
Airbag operating	
conditions	
Airbag precautions for	
your child	
Airbag warning light	
Correct driving posture	34
Curtain shield airbag	
operating conditions	49
Curtain shield airbag	
precautions	47
General airbag	
precautions	
I ocations of airbags	43

Modification and	
disposal of airbags	48
Side airbag operating	
conditions	49
Side airbag precautions	47
Side and curtain shield	77
airbags operating	77
conditions	49
Side and curtain shield	
airbags precautions	47
SRS airbags	42
Alarm	
Warning buzzer	
Antenna248	3, 344
Anti-lock brake system	
(ABS)	198
Function	198
Warning light	426
Ashtray	
Audio input	232
Automatic air conditioning	
system	
Air conditioning filter	382
Automatic air conditioning	
system	217
Automatic disconnecting	
differential	195
Automatic light	
control system	
Automatic transmission	158
If the shift lever cannot be	
shifted from P	
AUX port*	
Auxiliary boxes	331

В	
Back window	125
Back-up lights	
Replacing light bulbs	408
Wattage	476
Battery	
Battery checking	369
If the vehicle battery is	
discharged	447
Preparing and checking	
before winter	
Warning light	
Bluetooth ^{®*}	320
Registering/removing a	
Bluetooth® device	274
Selecting a Bluetooth®	
device	277
Wireless communication	
Bluetooth [®] audio [*]	
Bottle holders	330
Brake	
Fluid	474
Parking brake	167
Warning light	
Brake assist	
Break-in tips	131
Brightness control	
Instrument panel light	
control	22

U E	are	
	Aluminum wheels	. 345
	Exterior	. 344
	Interior	.348
	Seat belts	. 349
	O player*	
Cł	nains	. 205
Cł	nild restraint system	59
	Baby seats, definition	60
	Baby seats, installation	66
	Child seats, definition	60
	Child seats, installation	68
	Installing CRS with	
4	seat belts	66
	Installing CRS with an	
h	upper anchorage strap	71
	Junior seats, definition	60
	Junior seats, installation	70
Cł	nild safety	54
	Airbag precautions	44
	Battery precautions 371,	450
	Child restraint system	59
	How your child should	
	wear the seat belt	39
	Installing child restraints	59
	Power window lock	
	switch	. 122
	Power window precautions	. 123
	Rear door child-protectors	. 104
	Removed key battery	
	precautions	. 386
	Coat halt procesutions	11

^{*:} Refer to "Navigation System Owner's Manual".

Child-protectors104	Driver's seat belt
Cigarette lighter335	reminder light
Cleaning344, 348	Driving
Aluminum wheels345	Break-in tips
Exterior344	Correct posture
Interior348	Procedures
Seat belts349	Winter drive tips
Clock333	
Clutch473	E
Compass337	EDR (Event data recor
Condenser369	Emergency flashers
Console box328	Emergency, in case of
Cooling system	If a warning buzzer
Engine overheating452	sounds
Cruise control182	If a warning light turn
Warning light426	If the engine will not
Cup holders329	If the shift lever cann
Curtain shield airbags42	shifted from P
	If the vehicle battery
D	discharged
Defogger	If you have a flat tire
Rear window225	If you lose your keys
Windshield212, 219	If you run out of fuel
Differential	the engine stalls
Limited Slip Differential198	If you think somethin
Oil473	wrong
Dimension460	If your vehicle become
Display	stuck
Multi-information display90	If your vehicle has to
Trip information91	stopped in an
Do-it-yourself maintenance 355	emergency
Doors	If your vehicle needs
Door glasses121	towed
Door lock102	If your vehicle overhe
Open door warning light427	-
Outside rear view mirrors119	
Rear door child-protectors 104	
Side doors102	

Oriver's seat belt reminder light427 Oriving
Break-in tips131
Correct posture34
Procedures128
Winter drive tips203
E
EDR (Event data recorder)11
Emergency flashers414
Emergency, in case of
If a warning buzzer
sounds424
If a warning light turns on 424
If the engine will not start 445
If the shift lever cannot be
shifted from P446
If the vehicle battery is
discharged447
If you have a flat tire429
If you lose your keys99
If you run out of fuel and
the engine stalls456
If you think something is
wrong422
If your vehicle becomes
stuck457
If your vehicle has to be
stopped in an
emergency415
If your vehicle needs to be
towed417
If your vehicle overheats 452

Engine	
"ACC" position	155
Compartment	361
Engine switch	154
Hood	359
How to start the engine	154
Identification number	462
If the engine will not start	445
If you run out of fuel and the)
engine stalls	456
If your vehicle has to be	
stopped in an	
emergency	415
Ignition switch	
(engine switch)	154
Overheating	452
Engine coolant	
Capacity	470
Checking	367
Preparing and checking	
before winter	203
Engine coolant	
temperature gauge	87
Engine immobilizer system	78
Engine oil	
Capacity	465
Checking	364
Oil pressure warning light	425
Preparing and checking	
before winter	203

Engine switch
(ignition switch)154
Engine switch light
(ignition switch light)325
Event data recorder (EDR)11
F
Flat tire429
Floor mat32
Fluid
Automatic transmission 472
Brake474
Clutch473
Steering 474
Transfer 473
Washer373
Four-wheel drive system
Front drive control lever 194
Warning light426
Front fog lights
Replacing light bulbs404
Switch 172
Wattage476
Front passenger's seat belt
reminder light427
Front position lights
Light switch169
Replacing light bulbs406
Wattage 476
Front seats
Adjustment107
Cleaning348
Correct driving posture 34
Head restraints114
Front turn signal lights
Replacing light bulbs401
Turn signal lever 166
Wattage 476

	Fuel	High mounted stoplight
	Capacity464	Replacing410
	Fuel filter374	Hood359
	Fuel gauge87	Hooks
	Fuel pump shut off system423	Retaining hooks (floor mat)32
	Gas station information496	Horn168
	If you run out of fuel	
	and the engine stalls456	
	Information477	Identification
	Refueling177	
	Type464	Engine
	Warning light426	Ignition switch (engine
	Fuel filler door177	switch)154
	Refueling177	Ignition switch light
	Fuel filter374, 426	(engine switch light)325
	Fuel pump shut off system 423	Illuminated entry system 326
	Fuses387	Immobilizer system78
		Indicators80
	G	Initialization
	Gas station information496	Items to initialize
	Gauges86	Power windows122
	Glove box328	Inside rear view mirror118
	Clove Box	Instrument panel light
	Н	control88
		Intercooler369
	Hands-free system	Interior lights325
	(for cellular phone)*286	Switch
	Head restraints114	Wattage 476
	Headlights169	vallage
	Light switch	J
	Replacing light bulbs399	•
	Wattage476	Jack
	Heaters	Vehicle-equipped jack 430
4	Automatic air conditioning	Jack handle435
	system217	Jam protection function
	Manual air conditioning	Power windows122
	system 210	1 Ower windows122

K	M
Keyless entry100	Maintenance
Wireless remote control 100	Do-it-yourself maintenance 355
Keys98	Maintenance data 460
Engine switch154	Maintenance requirements 352
If you lose your keys99	Malfunction indicator lamp 425
Key number plate98	Manual transmission163
Keyless entry100	Meter
Keys98	Indicators 80
Replacing the battery384	Instrument panel light
Wireless remote	control88
control key100	Meters86
	Multi-information display90
L	Warning lights 424
Lever	Microphone 287
Auxiliary catch lever359	Mirrors
Front drive control lever 194	Inside rear view mirror 118
Hood lock release lever 359	Outside rear view mirrors 119
Shift lever158, 163	Vanity mirrors332
Turn signal lever166	MP3 disc*249
Wiper lever173	Multi-information display
License plate lights	Set up94
Light switch169	Switching the display91
Replacing light bulbs409	Trip information91
Wattage476	Multimedia system*228
Light	Basic Audio Operations 233
Engine switch light325	CD player249
Fog light switch172	Listening to Bluetooth®
Headlight switch169	Audio284
Illuminated entry system 326	Radio246
Interior lights326	Steering wheel audio
Interior light list325	switches231
Personal light326	USB/AUX Port232
Replacing light bulbs476	Using a Bluetooth® Phone 286
Turn signal lever166	Using the AUX port268
Wattage476	
Light bulbs	N
Replacing398	Navigation system*
Wattage476	
Limited slip differential198	
Lock steering column156	

^{*:} Refer to "Navigation System Owner's Manual".

0	
Odometer87	
Oil	
Differential oil473	
Engine oil465	
Manual transmission oil472	
Transfer oil473	
Opener	
Fuel filler door177	
Hood359	
Outside rear view mirrors 119	
Adjusting and folding119	
Outside temperature	
display91	
Overhead console331	
Overheating, Engine452	
<i>5, 5</i>	
P	
Parking brake	7
Operation167	
Parking brake engaged	
warning buzzer424	,
Personal light326	
Switch326	
Wattage476	
Power heater224	
Power outlet336	
Power steering	
Fluid474	
Power windows	
Jam protection function122	
Operation121	
Window lock switch122	
Q	

R	
Radiator	369
Radio [*]	246
Radio data system [*]	247
RDS*	247
Rear seat	
Removing the rear seat	•
cushions	111
Raising the bottom	
cushion	
Rear step bumper	106
Rear turn signal lights	
Replacing light bulbs	408
Turn signal lever	166
Wattage	476
Rear view mirror	
Inside rear view mirror	118
Outside rear view mirrors	119
Rear view monitor system	187
Rear window defogger	
Refueling	177
Capacity	464
Fuel types	464
Opening the fuel tank cap	177
Replacing	
Fuses	
Light bulbs	398
Tires	429
Wireless remote control	
battery	384

<u> </u>	
Seat belts3	36
Adjusting the seat belt3	37
Automatic Locking	
Retractor3	39
Child restraint system	
installation6	36
Cleaning and maintaining the	
seat belt34	19
Emergency Locking	
Retractor3	39
How to wear your seat belt3	34
How your child should	
wear the seat belt	39
Pregnant women, proper	
seat belt use	10
Reminder light and	
buzzer42	
Seat belt pretensioners	
SRS warning light42	25
Seats	
Adjustment10	
Adjustment precautions1	10
Child seats/child restraint	- ^
system installation	9
Cleaning34	ł8
Removing the rear seat cushions11	
Raising the bottom	11
cushion11	12
Head restraint11	
Properly sitting in the seat3	
Sensor	7
Automatic headlight	
system17	71
Service reminder	•
indicators	30

Shift lever	
Automatic transmission 158	3
Front drive control lever 194	4
If the shift lever cannot be	
shifted from P446	6
Manual transmission163	3
Shift lock system446	6
Side airbags42	2
Side doors102	2
Side mirrors119	9
Adjusting and folding119	
Heaters 225	
Side turn signal lights	
Replacing light bulbs 403, 410	0
Turn signal lever 166	
Wattage 476	
Snow tires203	
Spare tire	
Inflation pressure 475	5
Storage location429	
Spark plug47	
Specifications 460	
Speedometer87	
Steering	
Column lock release 156	ຣ
Fluid	
Steering wheel	•
Adjustment117	7
Audio switches23	
Stop lights	
Replacing light bulbs408	R
Wattage476	
Storage feature327	
Storage precautions328	
Stuck	٠
If your vehicle becomes	
stuck457	7
5tuck451	

^{*:} Refer to "Navigation System Owner's Manual".

Switch	Tires375
Audio remote control	Chains205
switches231	Checking375
Cruise control switch182	If you have a flat tire429
"DISP" button91	Inflation pressure 378, 475
Door lock switch103	Replacing429
Emergency flashers switch 414	Rotating tires375
Engine switch154	Size475
Fog light switch172	Snow tires203
Ignition switch154	Spare tire 429
"INFO." button91	Tools432
Light switches169	Top strap71
Outside rear view mirror	Towing
switches119	Emergency towing 417
Power door lock switch 103	Towing eyelet418
Power window switch121	Trailer towing143
Rear window defogger	Traction control198
switch225	Trailer towing143
"RESET" button91	Transmission
Window lock switch122	Automatic transmission158
Windshield wipers and	If the shift lever cannot be
washer switch173	shifted from P446
	Manual transmission163
T	TRC (Traction Control)198
Tachometer87	Trip information91
Tailgate105	Trip meters 87
Tail lights	Turn signal lights
Light switch169	Replacing light
Replacing light bulbs408	bulbs 401, 403, 408, 410
Wattage476	Turn signal lever166
Theft deterrent system	Wattage 476
Engine immobilizer system 78	
Tire inflation pressure	U
Maintenance data475	Upper anchorage strap71
	USB port*232

	V
	Valet key98
	Vanity mirrors332
	Vehicle data recordings10
	Vehicle identification
	number461
	Vehicle Stability Control
	(VSC)198
	VSC (Vehicle Stability
	Control)198
	W
	Warning buzzers
	Fuel filter426
	Key reminder156
	Seat belt reminder427
	Warning lights
	ABS426
	Automatic transmission fluid
	temperature426
	Brake system424
	Charging system425
	Electronic engine control
	system425
	Fuel system426
	Low engine oil pressure 425
	Low fuel level427
	Malfunction indicator lamp 425
	Open door427
	Seat belt reminder
	light427
	Slip indicator426
l	SRS425
ĸ.	Timing halt raplacement 126
	Timing belt replacement426
	Unengaged "Park"427

Washer Checking.......373 Preparing and checking before winter......203 Switch173 Washing and waxing......344 Wheels......380 Replacing wheels.....429 Size......475 Window glasses......121 Window lock switch 122 Windows Power windows......121 Rear window defogger......225 Washer 173 Windshield wipers Intermittent windshield wipers......173 Winter driving tips......203 Wireless communication 269 Wireless remote control key100 Locking/Unlocking......100 Replacing the battery......384 WMA disc*.....249

^{*:} Refer to "Navigation System Owner's Manual".

GAS STATION INFORMATION Auxiliary catch lever Fuel filler door P. 359 P. 179 ITNPH060a Hood lock release Fuel filler door opener Tire inflation pressure lever P. 179 P. 475 P. 359 Fuel tank capacity (Reference) 76 L (20.1 gal., 16.7 lmp.gal.) Unleaded gasoline with a Research 1GR-FE engine Octane Number of 95 or higher Unleaded gasoline with a Research Fuel type 2TR-FE engine Octane Number of 91 or higher Diesel fuel with a cetane number of 1KD-FTV engine 48 or higher Cold tire inflation pressure P. 475 Engine oil capacity P. 465 (Drain and refill — reference) Engine oil type P. 465

