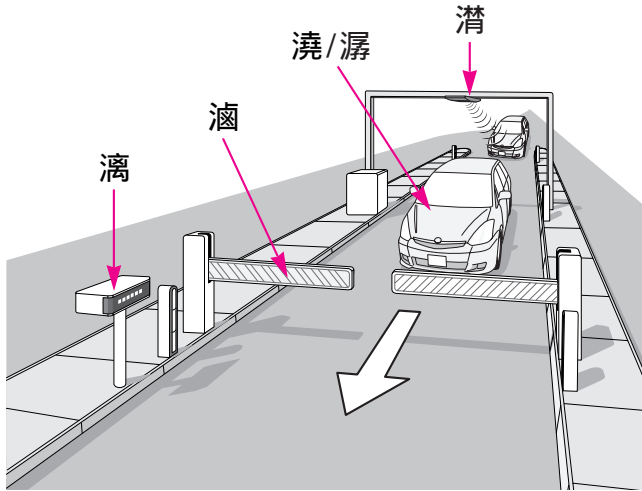


Handling of ETC -

About the ETC system

The ETC(Electronic Toll Collection) system is a system that adjusts the charge by the automatic operation to pass the tollway smoothly.

Communicate the wireless between ETC units of a road side wireless device and the vehicle, and pull down the charge from the bank account that the customer registered later.



滴 Road side indicator

It is set up in the ETC lane in the toll gate. The message such as whether passed appropriately is displayed to the going into it vehicle.

涵 Start controller(gate)

To ensure the charge adjustment, it is set up if necessary in the ETC lane in the toll gate. The one to control the start of the passing car, and the one like the breaker of launching out into. Open when the communication is normally done.

潺 ETC unit

It is installed in the vehicle. The equipment to communicate necessary data for the charge adjustment stored on the ETC card with a road side wireless device.

潜 ETC card

Install it in the ETC unit. The card for the ETC equipment equipped with IC chip. In the ETC card, necessary data for the charge adjustment for this IC chip is maintained.

滴 Road side wireless device

It is set up in the ETC lane in the toll gate. The antenna to communicate with the ETC equipment of the vehicle for the charge adjustment.

Before using ETC

Note the following points when you use the ETC system.

Before inserting the ETC card



注意

Note cutting of the expiration date of the ETC card.

Note cutting of the expiration date of the ETC card. The opening and shutting bar doesn't open when the ETC card is expired. Confirm the expiration date described to ETC card on hand beforehand.

After inserting the ETC card



注意

Confirm the insertion of the ETC card surely, and the normal operation.

- Confirm the insertion of the ETC card in the ETC unit surely beforehand, and the ETC unit operate normally when you use ETC. -
The insertion of the ETC card in this side of the toll gate might cause the error by the time the ETC unit attests the ETC card because it borrows for a few seconds.

When passing over the toll gate



注意

Going into of the ETC lane must go into it at a safe enough speed at the distance between two cars and about 20 km/h or less.

- Going into of the ETC lane must go into it at a safe enough speed at the distance between two cars and about 20 km/h or less. -

It is likely not to open in the opening and shutting bar set up in the ETC lane when the communication between the communication or the ETC unit and the ETC card between the ETC unit and the antenna is not normally done. -

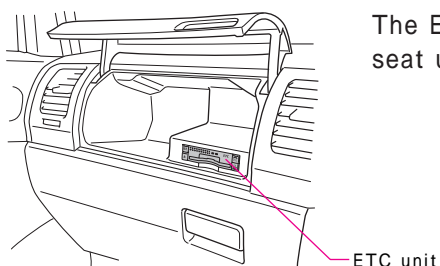
Pass after confirming it decelerates enough to stop safely in this side of the opening and shutting bar after the distance between two cars with the preceding vehicle is maintained, and the opening and shutting bar opened when you pass in the ETC lane.



How to use of ETC.

In this book, it explains only the operation of the ETC unit of the manufacturer option. The state, the ETC registered information, and the use history of a present ETC system can be displayed in the installation of this ETC unit together with the HDD navigation system on the screen of the HDD navigation system, and the setting change etc. of ETC be done. See "HDD navigation system manual" of the separate volume in detail.

About the ETC unit



The ETC unit is in the passenger's seat upper box.

- The setup procedure of the ETC unit is necessary at the first time. Consult the Toyota shop. (Additional cost is generated in the setup procedure.)



Do not put the foreign body etc. in the ETC unit.

- Do not put the foreign body etc. in the ETC unit. The ETC unit might break down. -

Do not strike close to home to the ETC unit. The ETC unit might break down, and be damaged. -

Do not touch the ETC unit by a wet hand, and put water (liquid etc.). Water enters in the ETC unit, and it is likely to break down and to damage it. -

Wipe dirt off with a soft, dry cloth when becoming dirty. Never use wax or neither thinner nor alcohol, etc. The ETC unit might be transformed and break down. -

The opening and shutting bar at the gate might not open when two or more ETC units are installed in one vehicle.



Knowledge

About the operation condition

When the engine switch is ACC or is turned on, it is possible to use it.

About the seal pasted to the product

This product has suited the standard of Radio Law. Do not paste to the product and do not peel off because the applied seal is the proof. Moreover, when this product is resolved and remodeled, it is likely to be punished by the law.

When you change the numberplate of the car

It consults in the ETC unit when the numberplate of the car changes and the change procedure is needed, and consult the Toyota shop.

About the ETC antenna

It is in the vicinity of the center in the Instrument panel.

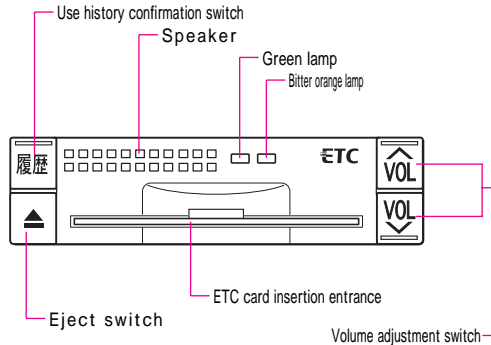


Do not put the thing so as not to become an obstruction of the communication above the ETC antenna (central vicinity of the Instrument panel). Moreover, remove them when dirt and the snowfall of the windshield are awful.

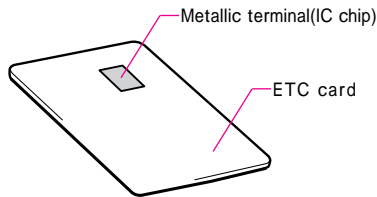


● Name of each part

- About the ETC unit



- About the ETC card



Follow notes that the ETC card issuer presents about the handling of the ETC card.

- Follow notes that the ETC card issuer presents about the handling of the ETC card. -

There is an expiration date in the ETC card. Confirm the expiration date of the ETC card beforehand.



About the ETC card

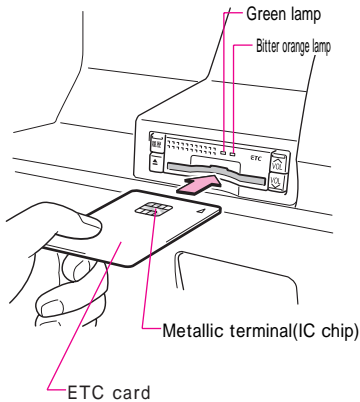
- It is necessary to apply to the ETC card by the customer oneself. Consult the Toyota shop in detail. -

Note the theft and the loss of the ETC card. Contact the ETC card issuer at once when the theft and it is lost by any chance.



When using it

- Operation when getting on



- 1 Start the engine.
Turn it off after a while after the power supply of the ETC unit enters, and a green lamp and the bitter orange lamp light at the same time.
- 2 Insert the ETC card in the ETC unit firmly in a correct direction of insertion as shown in a left chart.
"Pitsu" Something is heard, and a green lamp blinks.
- 3 Attest the ETC card.
When the ETC card is correctly attested
"Porn ETC card was inserted."
The voice is output, and a green lamp comes to remain lighting. -
If the ETC card is not correctly attested "Error 00*" that cannot read Pippiccard" The voice is output, and the bitter orange lamp blinks.

Knowledge

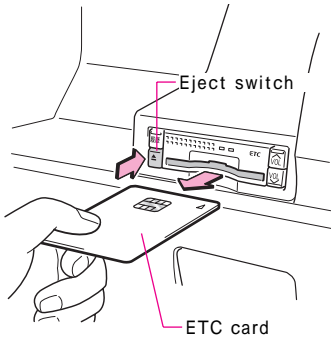
When using it for the first time

When the bitter orange lamp lights, it is not possible to use it because it sets up and the ETC unit is not followed a procedure.

When ETC is used for the first time, it is necessary to set up the ETC unit with a setup card. Consult the Toyota shop in detail.

- Some errors occur when the bitter orange lamp blinks.
See "Union error code list" (Refer to P.323) in detail.

- Operation when getting off



- 1 Stop, and push the eject switch of the ETC unit before stopping the engine.
When the engine is stopped before the ETC card is pulled out, the voice that informs that it forgets to pull out the card is output. (Refer to P.318.)
- 2 Pull out the ETC card from the ETC unit.
- 3 Stop the engine.



Do not pull out the ETC card while a green lamp is blinking.

- Do not pull out the ETC card while a green lamp is blinking. Data in the ETC card might be damaged. -

Do not use it excluding the ETC card regularly issued. -

Insert the ETC card firmly in a correct direction of insertion. -

The bitter orange lamp blinks when the error occurs on the ETC unit and the ETC card.

Correspond according to the situation as follows.

藁 Follow the treatment that has been described to "Union error code list" (Refer to P.323) when the voice is output to union error code (01-07).

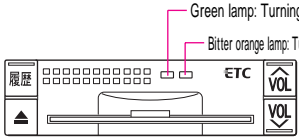
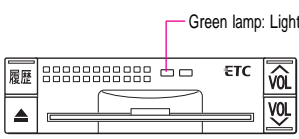
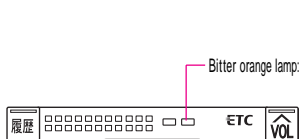
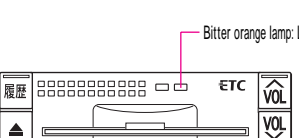
藁 Stop the engine once, and start again when the error occurs when the engine starts. Still, receive the check in the Toyota shop when the error continues.

藁 Pull out the ETC card once, confirm the direction of insertion, and insert it again when the error occurs when the ETC card is inserted. Still, receive the check in the Toyota shop when the error continues. -

Do not part from the car leaving the ETC card.

The ETC card might be transformed by the rise in heat in the car, and data in the ETC card be damaged.

- To know the operating state of ETC

Operating state of ETC unit	State of lighting of lamp
<ul style="list-style-type: none"> - When power supply is turned off(The engine stops.)- When engine switch is turning on, and ETC card uninserts it 	 <p>Green lamp: Turning off Bitter orange lamp: Turning off</p>
<p>When ETC operates normally</p> <ul style="list-style-type: none"> - When the ETC card is correctly attested - When it was possible to communicate normally at the ETC gate - When you can normally do the adjustment processing at the ETC gate 	 <p>Green lamp: Lighting</p>
<p>When abnormality is found in the operation of ETC</p> <ul style="list-style-type: none"> - When you insert a card different from the ETC card - When the inserted ETC card is correct and it is not recognized - When abnormality is found in the ETC system - When it was not possible to communicate normally at the ETC gate - When you cannot do the adjustment processing at the ETC gate - When abnormality is found in the antenna of ETC 	 <p>Bitter orange lamp: Blinking</p>
<p>When the setup procedure is not done, ETC .:</p>	 <p>Bitter orange lamp: Lighting</p>

- Contents
- Warning
- Basic settings, operation
- Driving Handling device
- The Handling indoor equipment
- Good Safety of To theory, practice and equipment
- How to attention associate, aiming, car
- Maintenance
- Myriad One(D
- 七
- Index

About the handling of the ETC card

- Do not part from the car leaving the ETC card. The ETC card might encounter the theft. -
- Close the passenger's seat upper box to prevent the theft when you have inserted the ETC card. -
- Contact the ETC card issuer promptly when you lose the ETC card.

Forget to pull out the card and about warning

- From the ETC unit when you stop the engine before the ETC card is pulled out, the voice "Please do not forget to pull out the card" is output. -

The voice of forgetting to pull out the card warning is able not to be output.

When the car is stopped, and the ETC card keeps being inserted in the ETC unit and push "History" and the " " switch at the same time for about two seconds when you do not output the voice with a green lamp lights. From the ETC unit when "Do not output/that outputs the voice" changes whenever operating it, and the selected setting is maintained (The setting changes) "Please do not forget to pull out the card" is output. The sound is stripes. solve Do. Even on the ETC setting screen, the person who takes the HDD navigation system installation car can do. See "HDD navigation system manual" of the separate volume in detail.

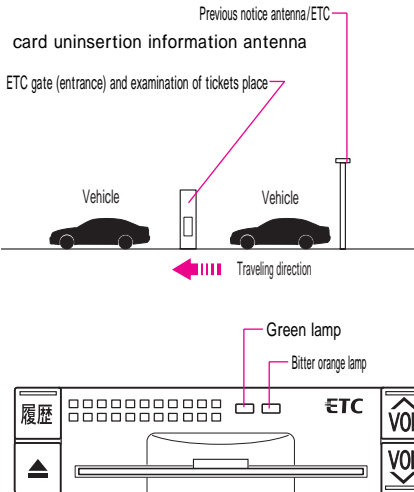
When you set the voice guide of the ETC unit to discontinuance (volume 0) the voice "Please do not forget to pull out the card" is not output. The buzzer sound is output.

- Contents
- Warning
- Basic settings, operation
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- How to attention associate aiming car
- Maintenance
- Myriad One(D)
- Index

About the display and the voice guide under running

The lamp display and the voice guide of the ETC unit are done while running as follows. However, those who drive must not look at the lamp display for safety while running.

- The ETC gate (entrance) and examination of tickets place and previous notice antenna/ETC card uninsertion information antenna are passed.



- A green lamp remains lighting only by hearing "Pitsu" and the sound when the communication is normally done. -

The bitter orange lamp blinks if the communication is not normally done.

"Error 00* that cannot use Petsu ETC" The voice outputs it solving.

In this case, tell the toll gate clerk in charge to find abnormality in the interphone etc. set up in the toll gate, and follow the instruction.



Do not pull out the ETC card in the ETC gate and the vicinity of the examination of tickets place and the previous notice antenna.

Do not pull out the ETC card in the ETC gate and the vicinity of the examination of tickets place and the previous notice antenna. Data in the ETC card might be damaged.

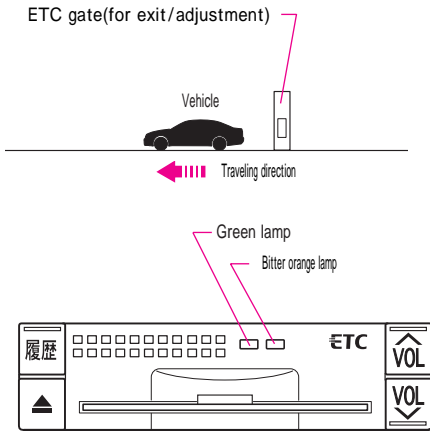
Knowledge

When you pass the ETC gate

The bitter orange lamp blinks when the previous notice antenna and ETC card uninsertion information antenna is passed when the ETC card has not been inserted.. "error that cannot use Petsu ETC 00*" It is guided. This is not because the ETC unit broke down because of the one to inform that ETC cannot be used.

- Some errors occur when the bitter orange lamp blinks. See "Union error code list" (Refer to P.323) in detail.

- The ETC gate (for exit/adjustment) is passed.



- "Pon" and the sound are heard when the communication is normally done and the traffic charge is guided by the voice. At this time, a green lamp remains lighting. -

The bitter orange lamp blinks if the communication is not normally done.

"Error 00* that cannot use Petsu ETC" The voice outputs it solving.

In this case, tell the toll gate clerk in charge to find abnormality in the interphone etc. set up in the toll gate, and follow the instruction.



Decelerate enough when the ETC gate goes into it.

- Decelerate enough when the ETC gate goes into it. -

Run according to the guide displayed in the vicinity of the ETC gate when you pass the ETC gate. -

Follow the toll gate clerk in charge's instruction when the opening and shutting bar at the ETC gate doesn't open. -

Additionally, follow use that the road entrepreneur issues. -

Do not pull out the ETC card in the ETC gate and the vicinity of the examination of tickets place and the previous notice antenna.

Data in the ETC card might be damaged. -

When neither the ETC gate (entrance and exit) nor the examination of tickets places are normally communicated, the bitter orange lamp blinks and the voice is output to union error code (01-07). Follow the treatment that has been described to "Union error code list" (Refer to P.323).



About the voice guide of the traffic charge

The traffic charge guided by the voice might be actually different according to the discount etc.

 Knowledge

When you pass the ETC gate

- Pass over the ETC gate (for exit/adjustment) or the examination of tickets place with the ETC card used at the ETC gate (entrance). -

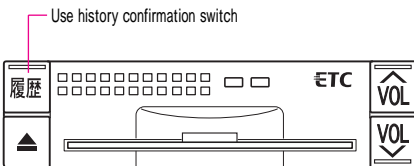
It is set up forward, and the previous notice antenna communicates with the ETC unit, and is an antenna of the toll gate to notify those who drive beforehand whether the ETC gate can be used through the ETC unit. The previous notice antenna might not be being set up by the system on the road side in the case to be set up. -

When it is set up forward, and it communicates with the ETC unit, and the ETC card of the toll gate has not been inserted correctly, the ETC card uninsertion information antenna is an antenna to notify those who drive beforehand through the ETC unit. The ETC card uninsertion information antenna might not be being set up by the system on the road side in the case to be set up.

 About the confirmation of the use history

The use day and the charge for the tollway traffic can be confirmed by the voice with the use history confirmation switch of the ETC unit.

The ETC card is inserted, and when the use history confirmation switch is pushed while stopping with a green lamp lights, the latest use history is guided by the voice. -



It changes into an old use history whenever the use history confirmation switch is pushed.

The following of the oldest use history change into the latest use history. -

When the switch is pushed next, it is guided from the latest use history if the use history confirmation switch is not pushed for about one second or more after the use history guide ends.



Do not confirm the use history in the ETC gate and the vicinity of the examination of tickets place and the previous notice antenna.

Do not confirm the use history in the vicinity of the ETC gate. It is not likely to be able to communicate with a road side wireless device.



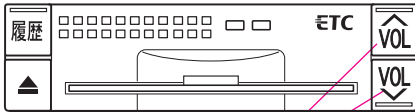


About the use history

- Because the use history is recorded on the ETC card, the maximum record number is different according to the ETC card used. -
- When the maximum record number of use histories is exceeded, the oldest use history is deleted. -
- When there is no use history There is no use history. " It is guided.
- When information on the use day is not correct The use date is uncertain. "It is guided.
- When information on the traffic charge is not correct The charge is uncertain. "It is guided.

About the volume adjustment

The volume of the voice guide output from the ETC unit can be adjusted with the volume adjustment switch of the ETC unit.



Volume adjustment switch

The volume of the voice guide output from the ETC unit can be adjusted with the volume adjustment switch of the ETC unit in eight stages.

The volume

- When enlarging it, the side of the switch.
 - When reducing it, the side of the switch.
- Push. -

When the volume is adjusted, the adjusted volume :
"Volume 00. "
It is output by the voice solving.



About the volume adjustment

- When you set the voice guide to discontinuance (volume 0)
- "Discontinue the voice guide. "The voice is output. -
 - When the error occurs, the voice is output by volume 1. -
- The notification that the ETC unit unsets up is not output.

About the error code

Union error code list

The bitter orange lamp blinks when the error occurs and the voice is output to the union error code. In this case, treat it based on the following tables.

(example)When error 03 occurs, it is guided by the voice as follows.

Voice guide: "Error 03 that cannot read Pippiccard"

Code	Abnormal state	Assumed factor	Treatment
01	The ETC card insertion is abnormal.	<ul style="list-style-type: none"> - When the ETC card communicates, it is not inserted. - The insertion of the ETC card is bad. 	Insert it again after confirming the insertion of the ETC card.
02	Data processing is abnormal.	<ul style="list-style-type: none"> - Reading to ETC card and writing error- <p>The point of contact is defective of the ETC card and the unit. (Matatacotowa accessing ETC card)-</p> <p>Eject of card when being writing it</p>	<p>When you insert the ETC card The data of the inserted ETC card was not able to be read. Insert it again. Still, inquire of the Toyota shop at abnormality.</p> <p>When using it The stop of the vehicle might be guided in the toll gate (display). Follow the toll gate clerk in charge's instruction after the vehicle stops.</p>
03	The ETC card is abnormal.	<ul style="list-style-type: none"> - The ETC card is out of order. - Cards other than IC card are inserted, and it doesn't communicate. - Mis-insertion of ETC card..(. .saying,) of back and insertion direction Tige 	<p>It was not able to be recognized that the inserted card was ETC card. Insert it again after confirming a correct ETC card, and the direction etc. of insertion. Still, inquire of the Toyota shop at abnormality.</p>



Code	Abnormal state	Assumed factor	Treatment
04	The unit is out of order by the self-diagnosis result.	The unit is out of order by the self-diagnosis result.	Start the engine again. Still, inquire of the Toyota shop at abnormality.
05	Abnormality of ETC card information	<ul style="list-style-type: none"> - Attestation error with ETC card-IC cards other than the ETC card insert it. - Eject of ETC card when being attesting it - Insertion of ETC card in state of unsetup 	It was not able to be recognized that the inserted card was ETC card. Insert it again after confirming a correct ETC card, and the direction etc. of insertion. Still, inquire of the Toyota shop at abnormality.
06	Abnormality of unit information	Attestation error with road side wireless device	The error occurred in the data processing between the unit and the toll gate. Follow the toll gate clerk in charge's instruction.
07	Communication abnormality	The communication with a road side wireless device ends on the way.	The error occurred in the data processing between the unit and the toll gate. Follow the toll gate clerk in charge's instruction.



About the union error code

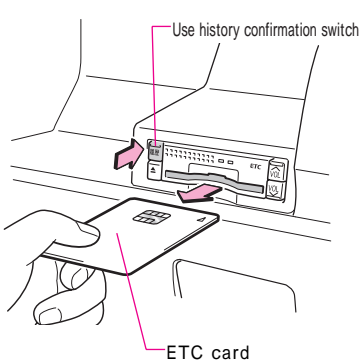
- When communicating with the ETC card uninsertion information antenna etc. Error 07" With notification
No breakdown of the ETC unit though there is a fault. -

A wireless of ETC unit communication is used, and the parking lot management system is operated. When you do a communication different from the charge payment of the tollway Error 01" Or, "Error 07" With the notification
No breakdown of the ETC unit though it is likely to be done.



To confirm the recorded error code

The ETC unit records the union error code generated at the end. Do as follows when you confirm the code.



1 Pull out the ETC card.

2 Push the use history confirmation switch for about two seconds or more.

The union error code guided at the end is guided by the voice.