



TOYOTA AUTO TAG

OWNERS MANUAL

Please read this manual for proper operation and keep it for future reference.



TABLE OF CONTENTS

AUTO TAG, SET

Section	Title	Page
1.0	Statements & Declarations	
1.1	Safety Notice	1
2.0	Getting Started	
2.1	Product Overview	2
2.2	Display (7-segment LCD)	3
2.3	Error message(s)	3
2.4	Cleaning	4
2.5	Getting started	4
2.5.1	Inserting a smart card (Touch 'n Go card)	4
2.5.2	Checking the smart card balance	5
3.0	Operating AUTO TAG, SET	
3.1	Operation	6
3.1.1	Debiting Process	6
3.1.2	Operational Features	6-7
3.1.3	Acoustic Signals	7
4.0	Product / Device Specifications	
4.1	Electrical Specification	8
5.0	Troubleshooting (If Available)	
5.1	Simple Troubleshooting	9

Please read this manual for proper operation and keep it for future reference.



SECTION 1.0

Statements & Declarations

1.1 Safety Notice

- Please do not operate the device while driving.
- Do not remove any parts from the auto tag main box. There are no user-serviceable parts inside the main box.
- Refer servicing to qualified service personnel only.
- There are no user interactions required during operation
- The auto tag main box is solely intended for the use in a car. It is not suitable for the use on motorbikes, scooters or bicycles.
- Protect the auto tag main box and its accessories against liquid.



SECTION 2.0

Getting Started

2.1 Product Overview

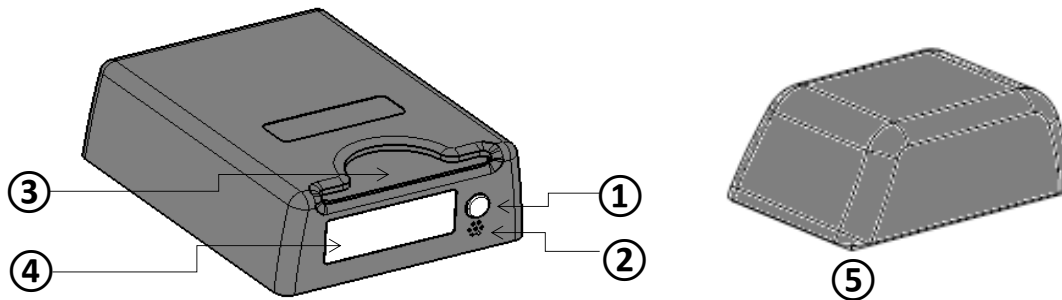


Figure 2.1

- ① **Button**
Press to checking smart card balance
- ② **Buzzer**
To inform the user about the operational state of the Auto Tag system
- ③ **Card Slot**
Inserting a smart card (Touch 'n Go card)
- ④ **Display**
6-digit liquid crystal display that informs the user about a number of operational states
- ⑤ **Antenna**
IR transaction(data exchange)



SECTION 2.0

Getting Started

2.2 Display (7-segment LCD)

The Toyota Auto Tag provides a 6-digit liquid crystal display that informs the user about a number of operational states.

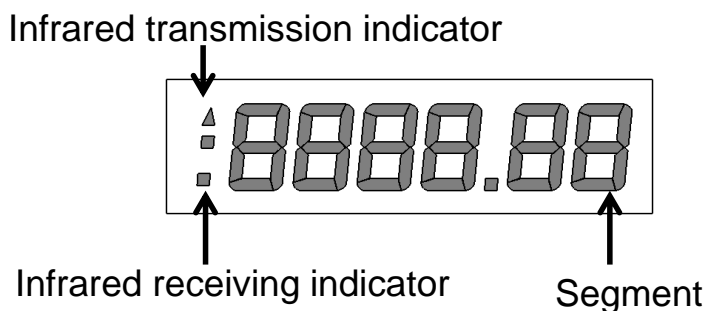


Figure 2.2

2.3 Error message(s)

Display	Possible cause	Solution
	No card inserted.	Insert smart card
	Wrong or defective card inserted.	Insert the correct card.
	Smart card could not be initialised properly.	Contact Toyota service centre hotline at 1800-8-869682



SECTION 2.0

Getting Started

2.4 Cleaning

Clean the display with glass cleaner or isopropyl alcohol (always observe the safety instructions of the solvent manufacturer) and a soft, lint-free cloth. Clean the case with a soft cloth dampened with water or water with mild soap. **KEEP YOUR DEVICE DRY** – The device is not water resistant. Keep it dry.

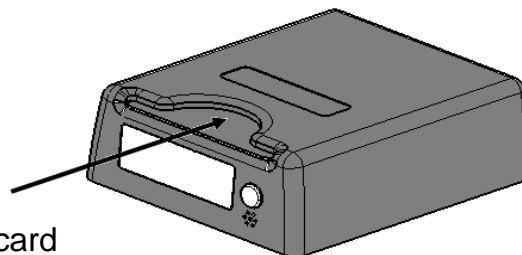
Caution: To avoid damaging the display or the case, do not use solvents or abrasive cleansers.

2.5 Getting started

The Toyota Auto Tag system is an electronic device used for electronic fare payment. Toll payments are carried out automatically without the need of interaction from the user (driver).

2.5.1 Inserting a smart card (Touch 'n Go card)

The smart card can be inserted in any position. There are no restrictions as to direction or top side/bottom side of the card. It is important to insert the card completely, until the card cannot be pushed further into the card slot.



Inserting a smart card

Figure 2.5.1



SECTION 2.0

Getting Started

2.5.2 Checking the smart card balance

The balance of the smart card can be easily checked by pressing the button on the left of the display. Upon pressing the button, the balance of the smart card will be shown on the LCD display.



Smart card balance is shown on the display

Figure 2.5.2(a)

If no smart card present in the card slot or the card was not initialised correctly, the following message will be shown on the display.



Invalid or no smart card in the card slot

Figure 2.5.2(b)



SECTION 3.0

Operating Toyota Auto Tag

3.1 Operation

A correctly installed Toyota Auto Tag system operates automatically without any need for user interaction. As soon as the vehicle passes a toll gate, a value is debited automatically (depending on the vehicle class programmed) from the available balance of the smart card inserted. Acoustic signals and messages will be displayed to confirm the operation to the user.

3.1.1 Debiting Process



Figure 3.1.1

3.1.2 Operational Features

The Toyota Auto Tag system comes with several key features.

A. Low power feature

The Auto Tag system is in a special low power “sleep” mode when not communicating (outside toll plaza area).

B. Traffic Jam program

In case of traffic jam at toll plaza, the car may spend a longer time at the communication zone of the toll gate. Hence the Toyota Auto Tag system will switch between low power sleep mode and “wakes up” at the interval of 3 seconds continuously to check if it is still within the communication



SECTION 3.0

Operating Toyota Auto Tag

3.1.2 Operational Features

C. Time lock

After toll payment operation is completed, the Toyota Auto Tag system will be locked for the specific toll plaza to avoid double deductions. However this lock time value depends on the system configuration (normal setting is approx. 5 minutes.)

Note: Traffic Jam program and Time Lock ensure that the correct toll amount is deducted only once.

3.1.3 Acoustic Signals

A series of acoustic signals inform the user about the operational state of the Auto Tag system.

No	Condition	Beep Sound Type
1	No card (after ignition)	2 short high-pitched beep (5 times)
2	Purse value check, <RM10	2 long high-pitched sound
3	Transaction successful	2 times beep high-pitched sound
4	Transaction failed	3 long low-pitched interval tones



TOYOTA
ALL ABOUT THE DRIVE

SECTION 4.0

Product / Device Specifications

4.1 Electrical Specification

Nominal Voltage	12V
Operating Voltage	8V-24V
Rated Voltage	13.5V
IG-ON Voltage	More than 7.0V
Operating Current	≤150mA
Output Current	Less than 1.0 A (max 1.0A)
Output Voltage	8.0V±0.2V
Operation Temperature	-30°C ~+80°C
Storage Temperature	-40°C ~+85°C



TOYOTA
ALL ABOUT THE DRIVE

SECTION 5.0

Troubleshooting

5.1 Simple Troubleshooting

Situation	Cause	Action
Auto Tag not functioning	No electricity powering the system	Check if the power connector is properly connected.
Payment cannot be completed correctly	Little balance left on the inserted smart card.	Check smart card balance by pressing the button (see point 2.5.2). Top up balance if necessary.
	Auto Tag system not installed correctly	Get qualified technician to inspect the Auto Tag installation.
No function when pressing the button	While waiting within the infrared communication zone (traffic jam) the unit will stay in a special mode (sleep ... wait)	After leaving the communication zone (stand still caused by traffic jam) the key function will be as described in point 3.1.2
1 short high-pitched beep then 1 short low-pitched beep (3 times) after ignition ON.	Antenna Faulty	Check wire, connection, Antenna. If NG replace Antenna.