6-1 Limited warranty / Repair Procedures

Repair Conditions

- 1. Parts that can be repaired:
- ·Internal electronic circuitry
- (Dead pixel of the LCD, damage caused by using the product in an extremely high/low temperature or by incorrect connection, and damage of any competitors' products are not covered by the warranty.)
- 2. Note that the product will not be covered by the warranty if the main body's case has been opened.
- 3. Note that if the warranty (below) or the Repair Sheet (on the web site) is not properly filled out, repair and return of the product may be delayed.

Warranty					
ltem Manufacture no.	TAO II- D	edicated Program C	ard for "TACHYON A	IRIA"	
Purchase date	(Y/M/D)	/	/		
Distributor's name					
Warranty term		3 months from p	ourchase date		
Address Telephone no.					
Name					

Repair Procedures

Note that if the date and location of the motor purchase are not entered on the warranty card, you will be charged for repairs even within the warranty term.

- If a failure occurs within three months of purchasing the motor, write the symptoms of the problem and operating conditions in the section below and attach this to the product. For repair, send the motor to the distributor where you purchased the product or directly to ACUVANCE (Technical Service Department).
- ACUVANCE assumes no responsibility for damage or loss occurring during transportation of the product. Please take note of this beforehand.
- When listing the symptoms for a repair request, you can conveniently use the repair sheet on the ACUVANCE homepage and then send this along with the warranty card, (Click the "repair" section located in the upper-right side of our homepage. Then click "repair sheet", located on the left side.)

Repair Card

- 1. Symptoms Write the symptoms of the problem, giving as much detail as possible.
- 2. Payment method \Box : Consent is not required if repair costs are 5.400 ven or less, \Box : Consent required if repair costs money.

Contact below for inquiry about the product: ACUVANCE CORPORATION Technical Service Dept.

ACUVANCE

Aggressive Air Drive Effector

INSTRUCTION MANUAL

Dear Customer. Thank you for purchasing ACUVÁNCE / TÀO II (Second). This product is a supreme device widening performance of TACHYON AIRIA endlessly. Please read this instruction manual to ensure a full experience of its potential. In addition, store this manual in a safe place for future use after reading.



P.12

P.12

P.12

CHAPTER Before using 1-1 Caution before use 1-2 About TAO II P.1 1-3 Parts list / Specification P.2 1-4 Preparation before use / Installation P.3 1-5 Basic Operation P.4 CHAPTER OPERATION - STEP1 Basic Menu 2-1 Start up / Main Display P.5 2-2 Bluetooth / Paring P.6 2-3 Change and Save setting P.7 2-4 Forwarding setting data to AIRIA P.8 2-5 Reading AIRIA setting P.9 CHAPTER 3 OPERATION - STEP2 Data I 3-1 Prepare for data logging 3-2 2 Data Log / Save Data

3-5 The numerical value under running is in real time displayed.

3-3 Read saved data by graph

3-4 Check saved peak volume

0117-5

4		
	OPERATION - STEP3 Change file name / Fault diagn	nsis
4-1 Edit saved fi	le name	P.13

-2 Check problem	P.14

CHAPTER 5	Another function	
5-1 Change sett	ing	P.15

ogging	CHAPTER 6 Repair	
P.10	6-1 Limited warranty / Repair Procedures	P.19
P.11		

1-1 Caution before use

Handling

This product is a precision instrument. A fall could result in permanent damage to the instrument, Fall damages will not be covered by the warranty.

Avoid water and Humidity Do not use the TAO II near liquid or in a rainy weather. If the device gets wet, turn the device off immediately, and wipe off water. Do not use blow dryer for drying. Water damages will not be covered by the warranty.

Repair

In case of device malfunction, do not attempt to repair, If you are having problems with your device, please contact us for repair. Manufacturing defect will be covered by the warranty. However, warranty will be voided if the device has been tempered with, or if improper use caused the damage.

Charging

When charging your device, please only use the AC adapter provided or a PC USB port. Not using these methods could result in permanent damages.

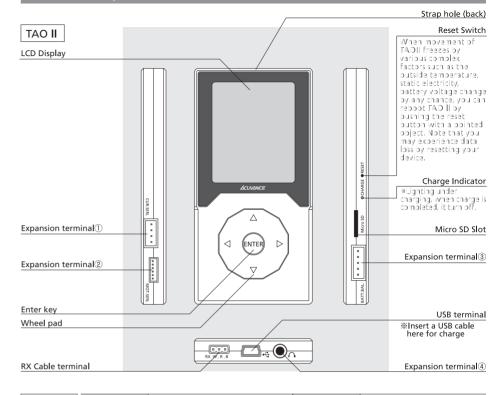
Compatibility

This product is a programmer made exclusively for the TACHYON AIRIA. There is no compatibility with first generation TACHYON or any other company brushless products. We cannot take responsibility of damages due to combination of TAO II and incompatible devices. In addition, future updates will enable more features and expansion terminals. Please, use and enjoy the new features by all means.

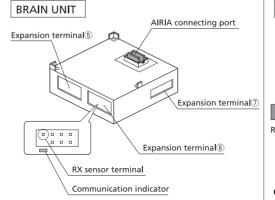
1-2 About TAO II (Second)

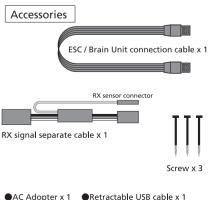
- ① Visibility improves by 2.2 inches color LCD display.
- ② A setting menu and the adjustment range of AIRIA were enlarged.
- ③ Ability to collect actual survey data** running by interactive radio data communication with AIRIA in real time.
 - **(Temperature of ESC & motor, RPM, Battery voltage etc.)
- Main Features
- ④ Analyzing various phenomenon while running by a data logger function.
- (§) A micro SD card to save unlimited configuration data setting for each course and chassis. The data exchange is possible between drivers via Micro SD card.
- ⑥ In combination with release planned a great variety of expansion apparatuses, you can use it as a multi-function system in future.

1-3 Parts list / Specification



ours
LCD





1-4 Preparation before use / Installation

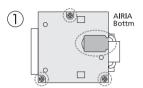
Charging

To charge the TAO II use the provided power AC adapter in a standard 110V home outlet. When charging from a home outlet, you have to use the attached AC adapter and USB cable. The charge indicator will light up when charging and turn off when charge is complete.

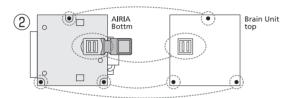
Connect Brain unit and AIRIA

There are 2 connection options available. Take off battery to prevent an electric shock or shortstop while vou work on a connection.

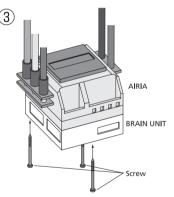
《Connection method① Direct connection AIRIA and brain unit.》



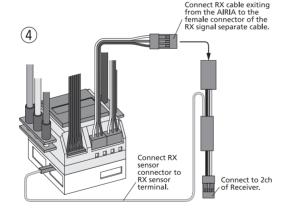
Tear off the rubber connector cover located below the AIRIA and take off 3 screws with a Phillips driver.



Merge the position of the connector, and connect a brain unit with AIRIA.

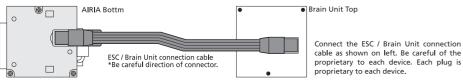


Fix the brain unit with the screws as shown above. Please be careful not to overtighten the screws as it could crack the housing of the AIRIA.



Connect RX signal separate cable like shown above. Connect the motor leads, battery and the sensor cord as you would normally do in a standard setup. It's Complete.

(Connection method (2) Connection AIRIA and brain unit separately.)



1-5 Basic Operation

Operation | Basic operation of Enter key and Wheel pad.

[Turn on] Press and hold Enter key over 2 seconds



[Cursor moves down] [Decrease number] Tap ▼



[Turn off] Press and hold over 3 seconds.



[Cursor moves left] Tap ◀

[Lowering numerical value at high speed] Keep tapping "◀ " of the wheel pad. While tap it, numerical value continues a high-speed drop.



[Selecting item] Click Enter key.



[Cursor moves right]

Tap >

[Raising numerical value at high speed] Keep tapping "▶" of the wheel pad. While tap it, numerical value continues a rise in high speed.



[Cursor moves up] [Increase number] Тар 🔺



[Back to previous display] Double Click Enter key.

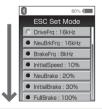


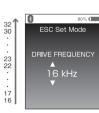
Wheel pad

By sliding your finger around the wheel, you can choose menu or number quickie.

[Cursor moves down or right direction] [Increase number] [Display scroll down] Slid finger clockwise.

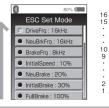






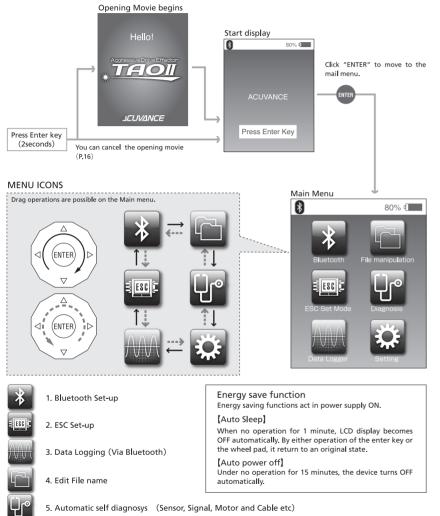
[Cursor moves up or left direction] [Decrease number] [Display scroll up] Slid finger counterclockwise.





2-1 Start up / Main Menu

An opening movie begins when pushing and holding the ENTER key for a few seconds from the OFF state, and shifts to a menu screen, All commands start from this man menu,



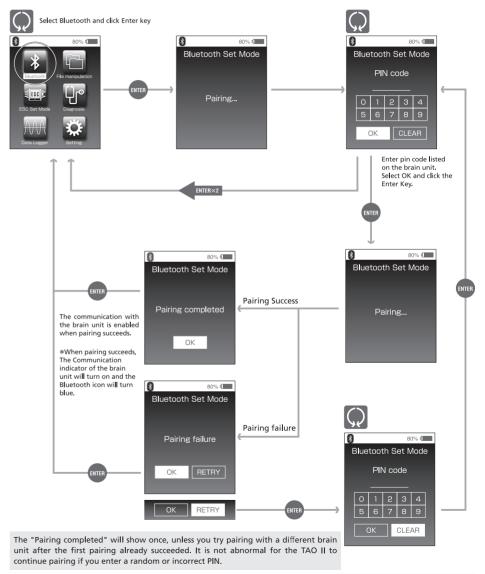
6. Setting - 6-1. User name setting - 6-2. Opening display setting 6-3. Version Information (Programmed card, ESC)

*ACUVANCE will update the firmware anytime a new apparatus is released in the future. Functions will be increased as new firmwares are released. In the event of an update, the update kit (OP87052) will be required. Please confirm the update methods on our web page.

2-2 Bluetooth / Paring

Your Brain unit comes with an individual ID. The Bluetooth communication is enabled by letting the TAO II pair with this unique JD. To Pair your devices, please follow the chart below.

- *Connect the brain unit with the AIRIA beforehand(P3), turn on your transmitter and the power source of the AIRIA.
- *The communication indicator of the brain unit will start blinking when the AIRIA power source is turned on.





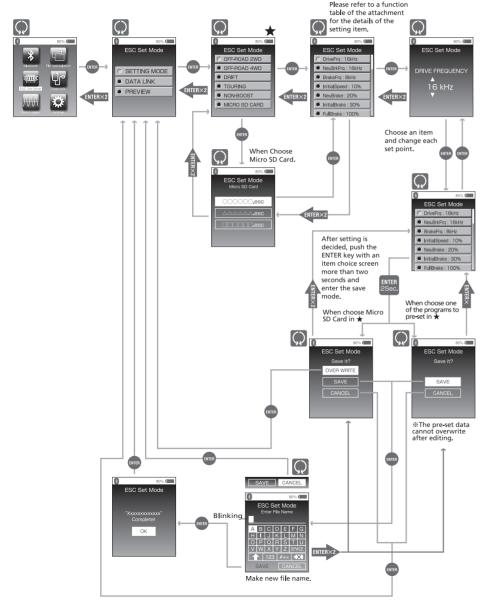
Drag operations are possible in the screens with this mark.



You can return to the last screen by pushing ENTER key twice quickly.

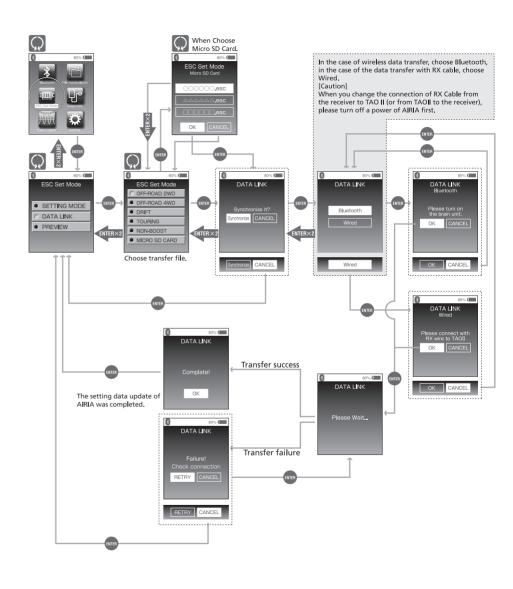
2-3 Change and Save setting

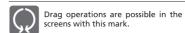
There are five kinds of driving profiles installed in the TAO II. You can change each setting within each profile to your liking, and save them in the Micro SD card as "user setting". Furthermore, you can change each item within the "user setting" already stored, overwrite it, or save it by another name.



2-4 Forwarding setting data to AIRIA

The TAO II can update setting data in the AIRIA by the pre-set profiles included or "user setting " by making a transfer (= data link).



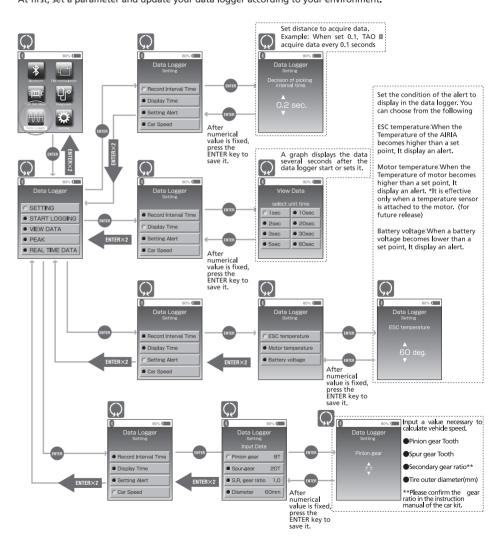


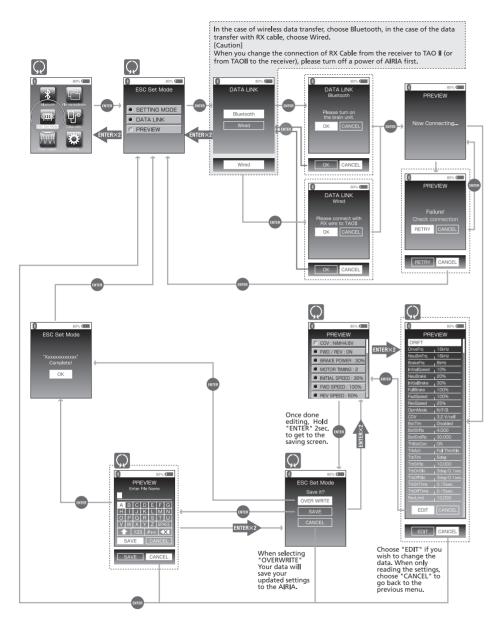
ENTER×2

You can return to the last screen by pushing ENTER key twice quickly.

3-1 Prepare for data logging

The TAO II is equipped with "a data logger function" to record battery voltage and change s of the AIRIA motor temperature while running. In addition, the TAO II has an "Alert function" to display warning when the battery voltage of the AIRIA is low, or the motor temperature exceeds the alarm value. At first, set a parameter and update your data logger according to your environment.



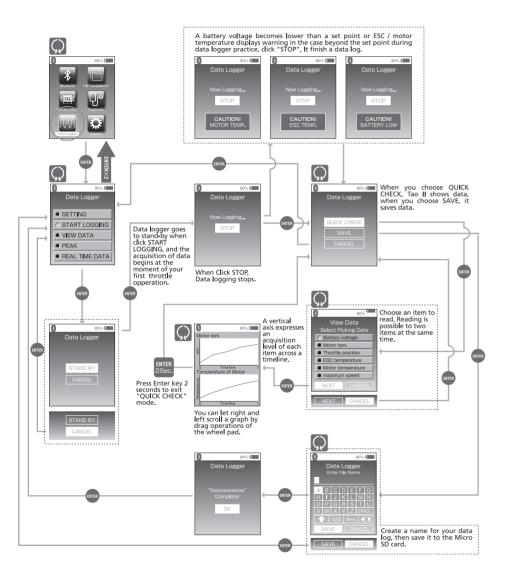






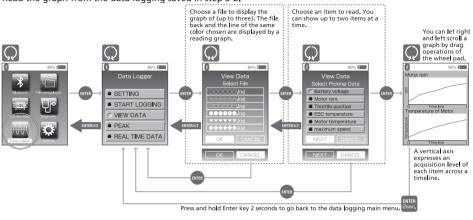
3-2 Data Log / Save Data

Based on the condition that you set in 3-1, the data logging will start recording. The Tao II creates 1 file from a data log start (START) to the end (STOP), you can add a name to every file and can save to the Micro SD Card. In addition, you can display the log immediately (quick check) without storing the file acquired.



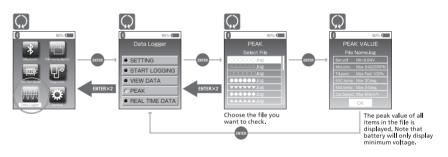
3-3 Read saved data by graph

Read the graph from the data logging saved in step 3-2.

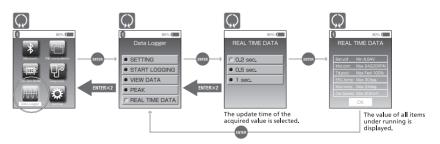


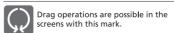
3-4 Check saved peak volume

Read the peak value of each measured value of the file saved in step 3-2.



3-5 The numerical value under running is in real time displayed.



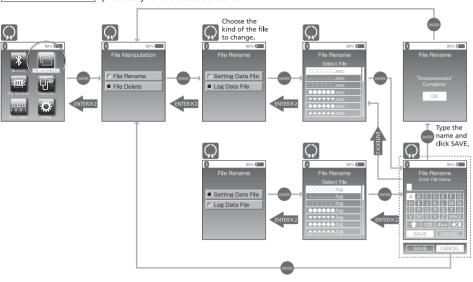




4-1 Rename the saved data file and delete the file

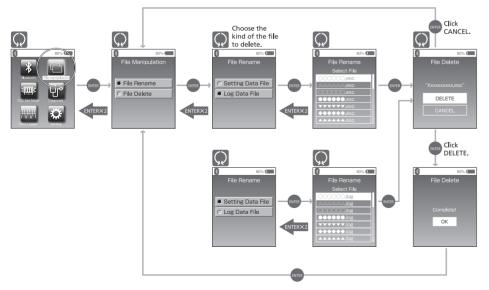
Change file name

You can edit the setting data file name and the data logging file name saved previously to the Micro SD Card.



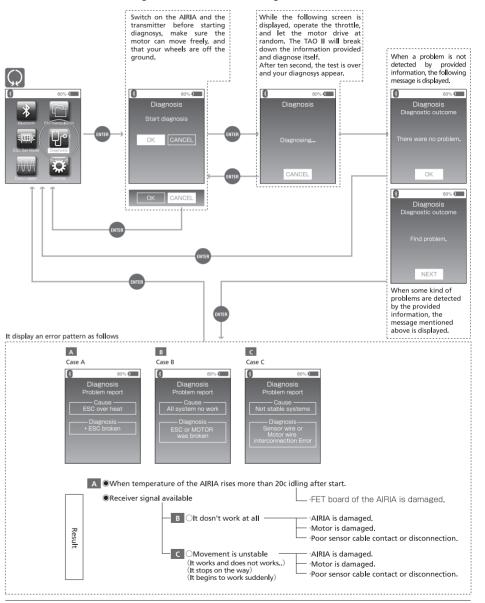
Delete saved file

The arrangement data file and the data logging file preserved to Micro SD Card are eliminated. A fact can be done.



4-2 Check problem

When malfunction of the system occurs, the TAO II can analyze information from the AIRIA and motor to determine a probable cause of the malfunction. (The displayed malfunction is not a predicable thing. Please refer to the AIRIA troublehooting chart for a more accurate diagnostic)



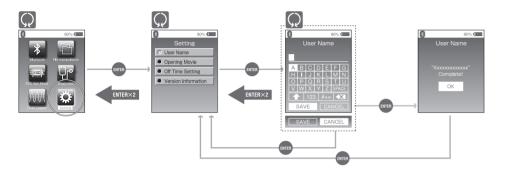
Drag operations are possible in the screens with this mark.

You can return to the last screen by pushing ENTER key twice quickly.

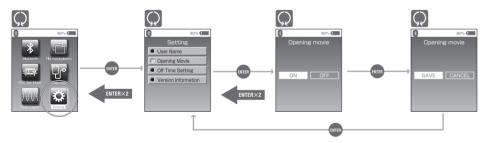
5-1 Change setting of TAO II

When future external equipment will be released, you will be able to update the TAO II firmware and functions. The newer functions will be added in the menu.

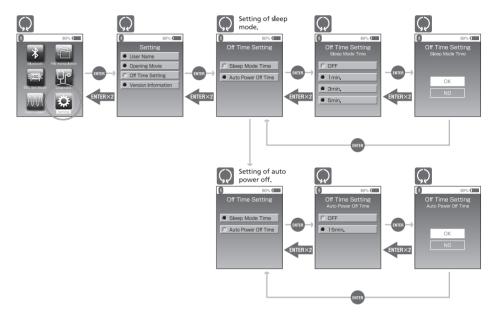
User Name Decide user name. The user name is displayed at the opening screen when starting the device.



Opening Movie Choose OFF, if you want to skip the opening movie at power on.



Off Time Setting The time to screen sleep and a setup of automatic power off.



Version Information It display the current firmware version installed in your TAO II.

