

Manual Electronic Start System



SPORT TIMING SYSTEMS

Version: 2018v2



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PREFACE

Welcome to the "Electronic Start System" user manual.

May we recommend you to gently browse through the entire manual first, just to have an initial idea of how the book is structured. As we can't possibly explain all details simultaneously, this might help you a bit in understanding and tracing things back. Of course, the table of contents will also help you in doing so.

Please note that all pictures are examples, the delivered version can be different than shown in this manual please inform yourself before purchase.

If you, after reading this document, have any further question regarding the operation or service of this or any other TimeTronics equipment, please contact your local distributor or TimeTronics directly, by email: info@timetronics.be, or call us at +32 (0) 14 23 19 11.

Please also contact us if you have any remarks or advise regarding this user manual: info@timetronics.be

Good luck with Electronic Start Device and thank you for your confidence in the TimeTronics products and services.

The editors

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1. INTRODUCTION

TimeTronics has 2 types of electronic start device. A **Club** (TTC064) version and a **Pro** (TTC063) version.

In combination with a portable **SpeakerBox** sound system (TTC067), you have a professional start system without a classic gun.

- No bullets anymore
- No weapon license needed, less administration
- Easy connection to all MacFinish photofinish systems

You can add up to 2 **additional Speakers** (TTC068), if you would like to place speaker closer to the athletes f.e. in the curve of the 400m start

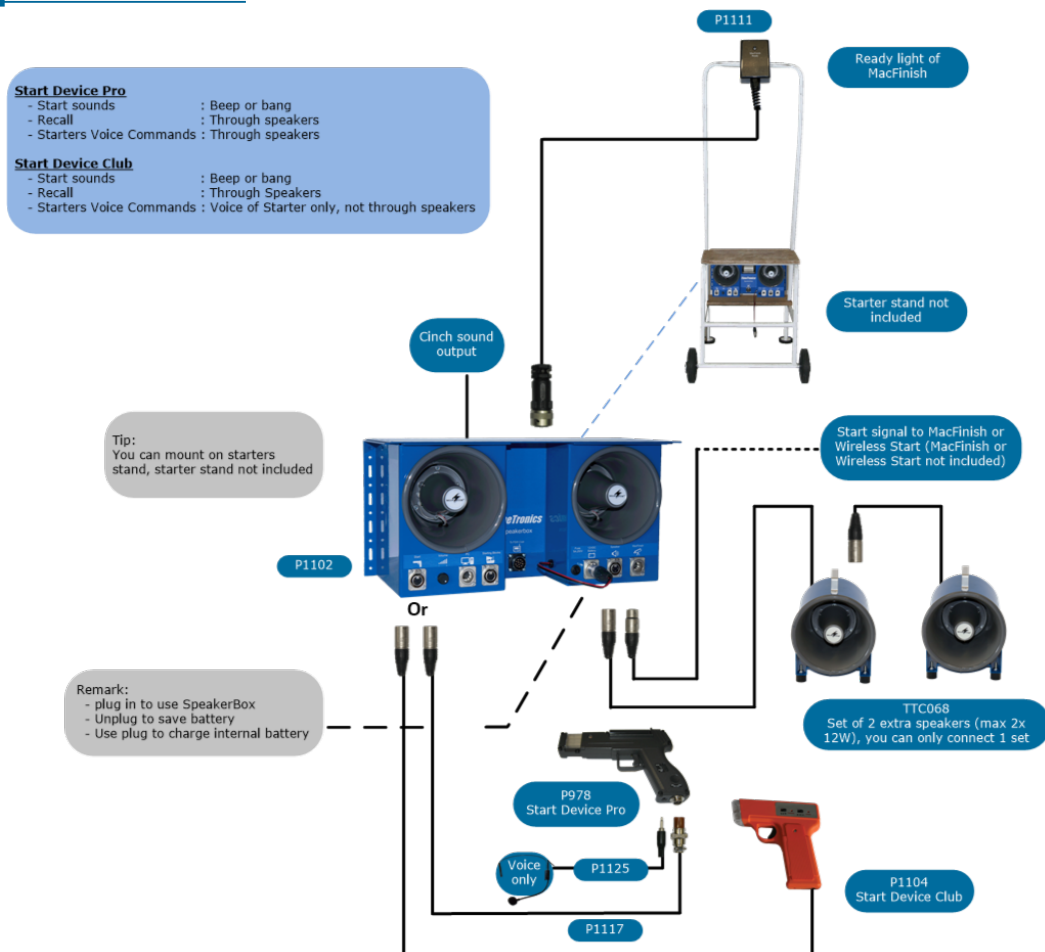
What is an Electronic Starting Device?

- It is an **electronic audio-visual start signal generator** that can be used for all types of races. It generates a start signal by sound and flashlight
- It does not use gunpowder and is safe to handle
- It can generate a synthesized firing signal or an electronic beep
- The start official can use a Headset Microphone (optional and for Pro version only) to amplify and communicate his/her voice message to the athletes
- It can be used with one portable sound system or more, or with other equipment to suit your timing system

!!! Important Remark !!!

Read safety remarks before using the electronic start system in chapter 6.

2. Setup schematic



3. Electronic Start Device

3.4 Electronic Start Device Club



1. Strobe light	5. Device power	9. Start Interface
2. Sound type	6. screw to close battery compartment	10. screwdriver for screw in point 6
3. Strobe light charging status	7. cable out for signals, cable is already mounted	11. Battery compartment
4. Sound on/off	8. Plastic casing (optional)	12. Electronic Start Device Club with attached cable with connector

3.4 Electronic Start Device Pro



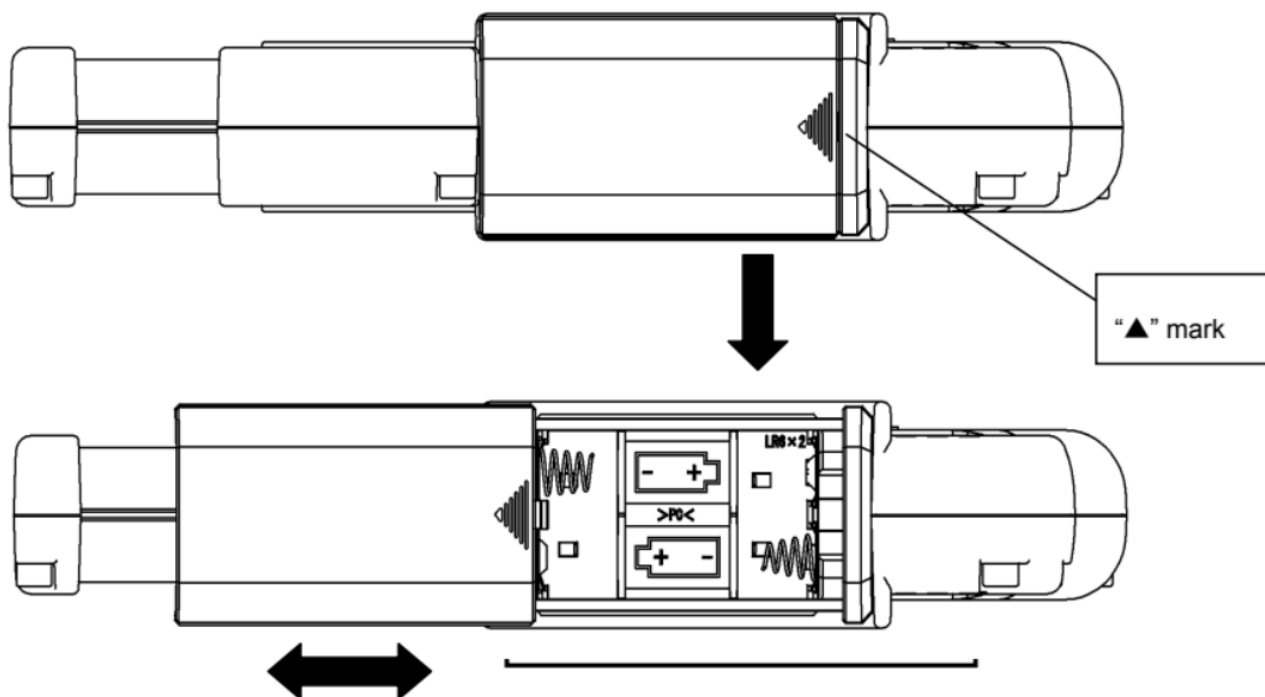
1. Strobe light	5. Volume Mic output	9. Start Interface
2. Strobe light charging status	6. Microphone input	10. Empty
3. Battery compartment	7. Start and sound out	11. Battery compartment
4. Power off, Mode (Sound) 1 or Mode (Sound) 2	8. Plastic casing (optional)	12. Electronic Start Device Pro

3.5 How to use

Battery change

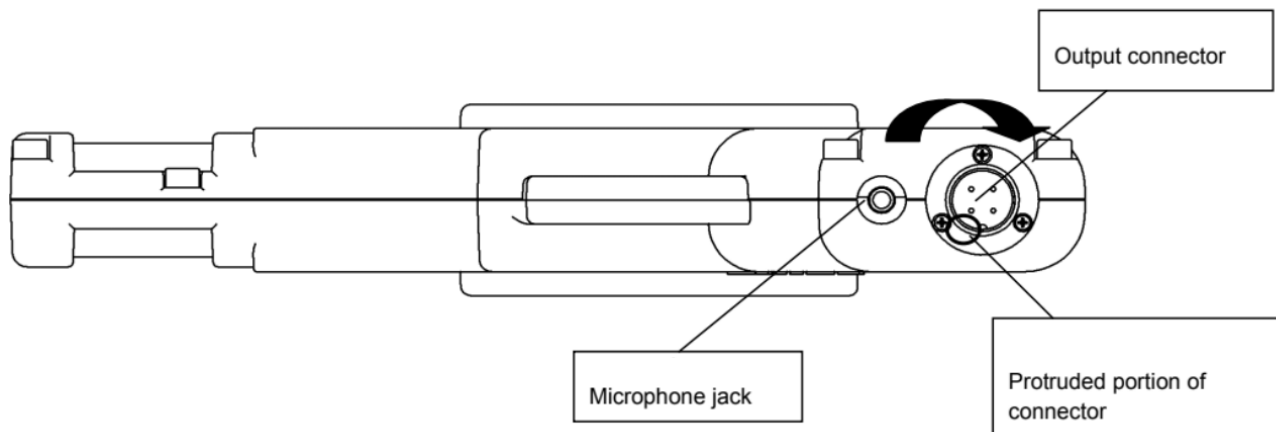
Replace the batteries with new ones before use each day.

1. Set the selector switch to "POWER OFF".
2. While pressing the "▲" mark on the battery holder cover on the top of the device, slide it as shown below to open the battery holder.
3. Insert two LR06 (AA) alkaline dry batteries, checking that they are properly aligned as indicated inside the battery holder.
4. Slide the battery holder cover to close it securely.



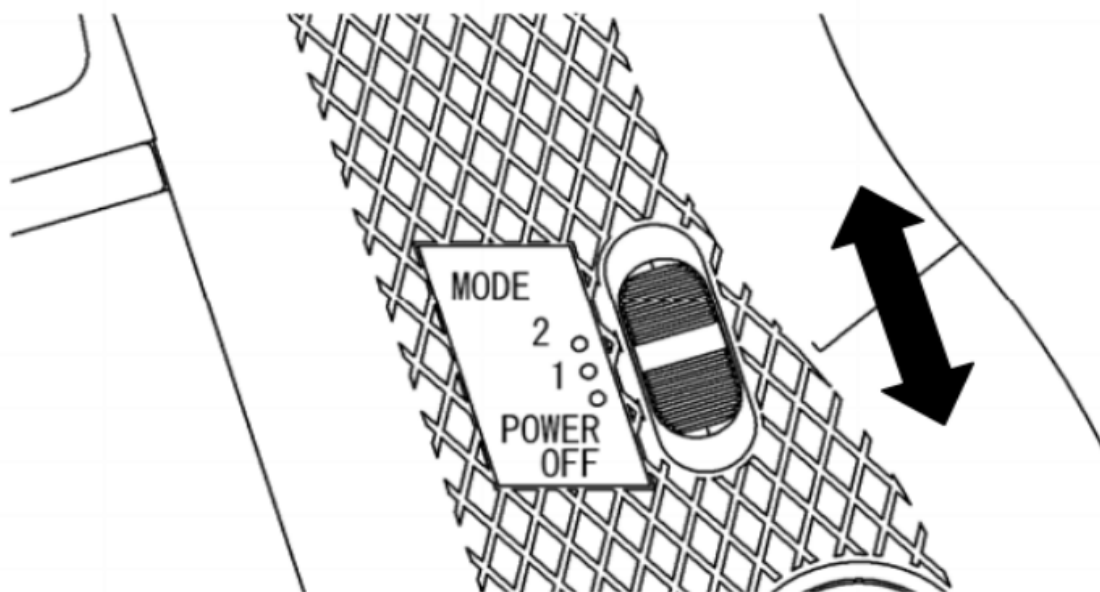
Cable connection

1. Insert the plug of the headset microphone securely into the microphone jack.
2. Insert the end connector of the cable with Box into the output connector. To do so, align the notched portion of the cable end connector with the protruded portion of the output connector. After inserting the cable end connector, turn it in the direction of the arrow in the illustration (clockwise) to fix it securely.



Power-on/mode selection

1. Slide the selector switch on the grip of the device to turn on/off the power or select the desired mode.



Each position of the selector switch represents the following.

From the top:

Start sound 2 (MODE 2) – Gunshot sound

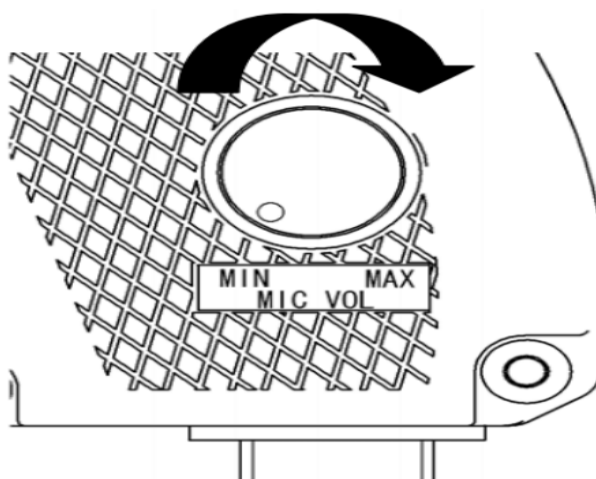
Start sound 1 (MODE 1) – Electronic sound

Turning off the power (POWER OFF)

*The start sounds 1 and 2 emit different sound.

Microphone volume adjustment

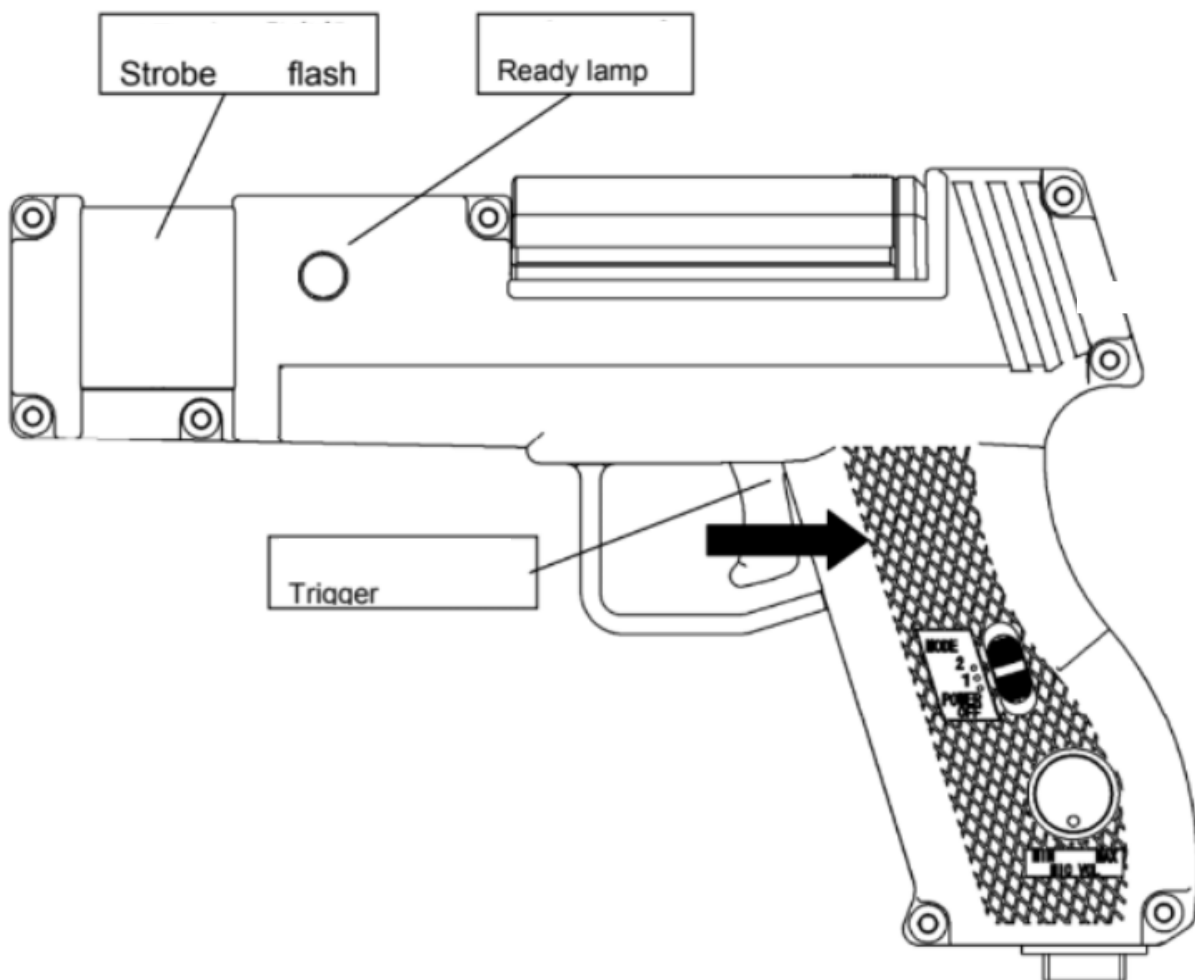
1. Turn the microphone volume control on the grip of the device to adjust the microphone volume.
By turning the volume control in the direction of the arrow in the illustration (clockwise), the microphone volume becomes louder.
- To make the microphone volume even louder beyond the maximum setting of the volume control, adjust the volume on the part of the SpeakerBox.



3.6 Operation

Emission of strobe flashlight/startsignal output

1. Set the selector switch to "MODE 1" or "MODE 2".
2. The ready lamp will light up.
* It may take some time until the ready lamp lights up.
3. By pulling the trigger as shown by the arrow in the illustration, a start signal is output. When the ready lamp lights up, pulling the trigger will emit the strobe flashlight.
*For the life of the battery
If you take more than 1 minute to ready lamp is lit, the battery is empty.
Please replace with a new one with two batteries (See section 3.5 battery change)



4. SpeakerBox

4.1 Setup Schematic

See page 3

4.2 Mounting

We have constructed the SpeakerBox in such a way that you mount it under almost all different type of starter stands.

4.3 Charging

Charging the SpeakerBox is easily done by unplugging the indicated cable and use this cable to connect with the battery charger delivered with the system.



4.4 Ready Led

The Ready LED is best mounted on your starter stand in such a way it has the best possible visibility for the starter. This Ready LED indicates if the MacFinish photofinish is in ready status or not.



5. Optional add-ons

5.1 Additional Speaker(s)

You can place up to 2 additional (optional) speakers behind the athletes to amplify and to bring the sound closer to the athletes. Especially at the start of the 400m the athletes will feel the advantage to have the start sound closer to each of them.

Setup schematic on page 3.



5.2 Wireless Start

The Electronic Start Device with SpeakerBox can be optionally upgraded with a wireless transmission of the start pulse to the MacFinish 2D 100 (*) or MacFinish 2D 400/410.

(*) Please consult TimeTronics if your MacFinish 2D 100 is bought before July 2010. Not all systems before this date can be integrated with the Wireless Start.

5.2 FalseStart III Club Wireless or Wired

The Electronic Start Device with SpeakerBox can be optionally upgraded with a FalseStart III Club Wireless or Wired.

6. Safety Warning for Electronic Start Device Club and Pro

The following precautions must be strictly observed for the safety of yourself and your fellow workers and for the protection of property from loss and damages.

6.1 Warnings

Action to be taken in case of troubles	If the start device is fuming or emitting odors, immediately disconnect the cable from the output connector and set the switch to "POWER OFF". Then contact TimeTronics for repair service. If the starting device is used contentiously without being reconditioned, an electric shock or fire hazard may result.
Prohibition against unauthorized disassemble, repair or tampering	Never attempt to disassemble or repair or tamper with the start device. For repair service contact TimeTronics.
Prohibition against insertion of foreign items	Do not insert any foreign matter such as a pin, or a piece of wire or metal into any hole or gap of the start device. IN case this would occur, immediately disconnect the cable from the output connector or set the switch to "POWER OFF". Then contact TimeTronics for repair service. If the starting device is used contentiously without being reconditioned, an electric shock or fire hazard may result.
Prohibition against handling with wet hands	Never operate the start device with wet hands. Otherwise, an electric shock or malfunction may result.
Precaution for use in rainy weather	The start device is not of drip-proof type. While in use, good care should be taken not expose it to splashes of water such as rain. Otherwise, an electric shock or a malfunction may result.
Precaution for storage	Before storing the start device, be sure to remove the batteries from the battery holder. Also, store it at a place where it will not be exposed to water and dust. Otherwise, a malfunction may result.
Precaution for strobe flash light	Do not look straight at the strobe flash light emitted from the start device. Also, do not emit the light before the eyes of the others. This may deteriorate their eyesight, or deprive them of sight for a moment to cause an accident or injury.
Precaution for turning on the power	Before turning on the power, be sure to set the microphone volume control at the lowest position. Unexpectedly large sound may be emitted to cause hearing loss.

6.2 Caution

Precautions for batteries	<ul style="list-style-type: none"> • Be sure to observe the following. Otherwise, the batteries may explode or leak to cause personal injury or contaminate the environment. • Use LR06 (AA) alkaline dry batteries only. • Do not use old and new batteries together. When installing the batteries for the first time, or when replacing them, ensure that only new batteries are used. • When inserting the batteries, check that they are properly aligned as indicated inside the battery holder. • Replace the batteries with new ones before use each day. Old batteries may cause a malfunction during use. • Before replacing the batteries, be sure to turn off the power. • While the Electronic Start Device is out of use, ensure that the batteries are removed from the battery holder. The battery leakage may occur to cause a fire, personal injury or contamination of the environment.
Precautions for cable connection	<ul style="list-style-type: none"> • Before connecting or disconnecting the cable, be sure to turn off the power. An electric shock may result. • Take utmost care to not get the connectors wet with rain or other water. A malfunction may result. • Never use any cable than included with the electronic start device. Burned damage or a malfunction will result.
