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FTT-1

Fencing Trainer & Tester

FTT-1: Miniaturized device and Tester for fencing.

FTT-1 is indicated for:

- The signalling of hits in fencing and sword training.
- The electrical control of the three weapons and of the various body cords.

General characteristics:

- Direct connection to the three-pin plug of all the body cords.
- Easy attachment of the fixing clip to the athlete's clothing (small pocket, belts, etc.)
- Visual and audio signalling.
- Two buttons for selecting the operation to be performed and the type of sound.
- Power supply with a standard battery for remote controls 12V of the A23 or VR22 type. The lifespan is of approximately 5000 hits! To substitute the battery, open the container with a Phillips screwdriver.

- Extremely reduced dimensions: 7,6x4,8x1,6 cm (excluding the fixing clip). Weight: 60g

Selection of the OPERATION MODE

Subsequent pressure of the SELECT button allows a choice of three set working functions:

- Recording machine FOIL: RED light
- Recording machine SWORD: GREEN light
- TESTER: 2 YELLOW lights

After 3 seconds the lights of FTT-1 turn off, maintaining the set working modality.

Selection of the SIGNALLING SOUND

Subsequent pressure of the SOUND button allows the selection of the signalling sound of the hits:

- Long Continuous sound (1sec)
- Long trilling sound (1sec)
- Brief sound (0,15sec)

The 2 long sounds allow the hits of the 2 competitors to be distinguished. The brief sound is useful for signalling hits in rapid succession during training.

FOIL AND SWORD RECORDING MACHINE

Select the kind of weapon and sound with the SELECT and SOUND buttons as indicated in the above paragraphs.

Connect FTT-1 to the three-pin plug of the body cord.

FTT-1 signals that the tip of the weapon has been pressed in any moment, even if this occurs on non-valid targets.

The contact time is compliant with FIE standards, both for the foil as well as the sword.

It is ideal for training because it makes reels, pistes, wires and signalling units superfluous.

TESTER

Select the operating function TESTER with the SELECT button, as indicated above.

The 4 lights are used in the following manner:

- The RED light indicates if there is a contact between the central socket and the left socket.
- The GREEN light indicates if there is a contact between the central socket and the right socket.
- The two YELLOW lights light up for approximately 1 second at even minimum openings of the corresponding circuit. Micro-interruptions of the circuits inferior to a thousandth of a second are thus signalled!

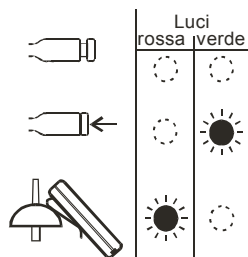
To reveal any possible lack of current, FTT-1 signals all contacts with inferior resistance to 4-5K W.

In the various tests described below, once the exact state of ignition of the RED and GREEN lights has been controlled, move the cables and connectors to identify the presence of uncertain contacts that will be signalled audibly as well as by the ignition of YELLOW lights.

TEST OF THE WEAPON WITH THE BODY CORD

After configuring FTT-1 with the TESTER function, insert the three-pin connector of the body cord to FTT-1 and then, according to the weapon connected to the other end of the body cord, perform the following tests to check whether the lights work properly.

SWORD test with BODY CORD

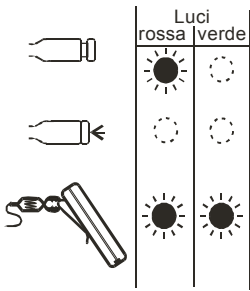


If the point is not pressed, both the lights should be turned off.

Pressing the point, the green light should turn on.

Touching the guard or the blade with the FTT clip, the red light should turn on.

FOIL test with BODY CORD

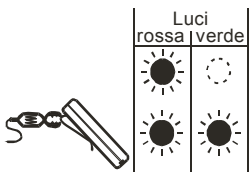


If the point is not pressed, the red light should turn on.

Pressing the point, both lights should be turned off.

When the FTT clip is nipped, the green light should turn on, whilst the red light turns on if the point is not pressed.

SABER test with the BODY CORD



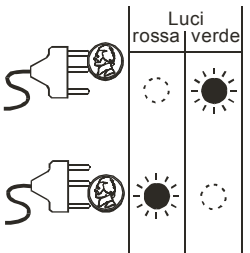
The red light must always remain on.

When the FTT clip is nipped, the green light should also turn on.

TEST WITH THE BODY CORD ON ITS OWN

Select the TESTER mode; insert the three-pin connector of the body cord to FTT-1. According to the kind of body cord, perform the tests indicated below to check the correct ignition of the lights.
In the body cord test for the sword, the reel can also be checked together with the connection cable running from the device to the reel.

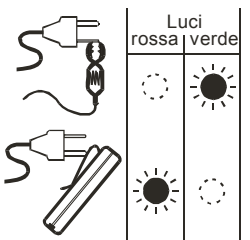
BODY CORD test with 2 THREE-PIN PLUGS



When a contact is made between the two closest plugs (with a metallic object: coins, keys, etc.), the green light should turn on.

When a contact is made between the distant plugs, the red light should turn on.

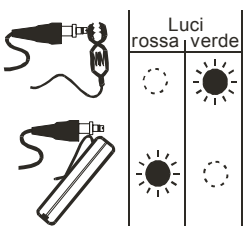
BODY CORD test with TWO-PIN PLUG



When the thinner plug of the two-pin connector is nipped, the green light should turn on.

When the FTT clip is touched with the bigger plug of the two-pin connector the red light should turn on.

BODY CORD test with BAYONET CONNECTOR



When the point of the bayonet connector is nipped, the green light should turn on.

When the FTT clip is touched with the ground of the bayonet connector, the red light should turn on.