



**Manual**  
**for the**  
**SCHERMER**  
**Stimulation device**  
**Type EST-2**



# Manual for the Schermer

## Stimulation device EST-2

### 0. Warning and user instructions

The operator has to observe national regulations and laws regarding safety and animal welfare, e.g. directive 1099/2009/EC.

Installation, putting into operation and use of the stimulation device have to be done by proficient and instructed persons only.

Use stimulation device for stimulation of animals for slaughter only.

Separate stimulation transformer from mains supply before starting any maintenance.

Do not combine part of the equipment with part of an equipment from another manufacturer, as we assume no liability for safe use in this case!

Recommendation: When sending the stimulation equipment to manufacturer for repair or maintenance, please use the original packing material, which guarantees safe transport!

Therefore, please store carefully the packing material.

### 1. Introduction

The stimulation equipment EST-2 consist of:

- Stimulation transformer type EST-T
- Stimulation tongs type EST-Z
- Stimulation cable type EST-K

Use only these parts together.

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## 2. Technical instruction

### 2.1. Stimulation transformer EST-T

The stimulation transformer is built-in a splash proof plastic housing.

Control elements and signals:

- green signal LED **MAINS**: indicates readiness for operation
- yellow signal LED **ON**: stimulation tension is switched on  
EST-Z und EST-K
- red signal LED **OVERLOAD**: overload or overcharge
- red push button **ON/OFF**: starts or interrupts the stimulation procedure
- selector **LEVEL 1 / LEVEL 2** selection of the stimulation duration  
level 1 = approx.45 sec,  
level 2 = approx.90 sec

### 2.2. Installation

By expert staff only according regulation in effort!

Mains supply: 230 V AC  
Frequency: 45 – 60 Hz

### 2.3. Bringing into service

By expert staff only!

1. Connect stimulation tongs EST-Z (upper socket, plus pole) and the stimulation cable EST-K (lower socket, minus pole) to the sockets on the side of the housing of the stimulation transformer.
2. Connect stimulation cable EST-K e.g. to the tube track or the bleeding table.
3. Connect stimulation transformer to mains. Green LED **MAINS** flashes. Stimulation device is ready for use. Red LED **OVERLOAD** flashes in case of overload, it will lapse after fixing the cause of the malfunction.  
Safety fuse (500mA, delay-action) inside the device has to be checked, if green LED does not shine if stimulation transformer is connected to mains supply. Open device and change the safety fuse against attached replacement one.

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## 2.4. Cleaning and maintenance work

By expert staff only!

Clean stimulation device EST-2 after use and check it for any damages.  
Store it in a dry area.

Important: Do not use high pressure for cleaning.  
Use neutral cleanser only.

Change immediately defective or worn out parts to guarantee a safe use.  
Use original spares only.  
Maintenance work on the electronic should only be done by the manufacturer.

## 3. Operation instruction

Important: Stimulation tongs EST-Z have to be free from tension when they are connected to the animal. Yellow LED may not shine.

Connect stimulation cable EST-K e.g. to the tube track or the bleeding table.  
Two different stimulation durations can be selected, level 1 (approx.. 45 sec) or level 2 (approx.. 90 sec).

Connect stimulation tongs EST-Z e.g. to the muzzle of the animal for slaughter.

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### 3.1. Bleeding stimulation

Attention: The stimulation tension is switched on EST-Z and EST-K after pressing push button ON/OFF. Excitations of the animal may occur. Keep away from the danger zone

Choose the duration of the stimulation time by putting selector to LEVEL 1 (45 sec) or LEVEL 2 (90 sec). Other durations can be set after consultation with the manufacturer.

Place the stimulation tongs e.g. to the muzzle of the animal for slaughter, press the red push button ON/OFF, the yellow LED ON indicates the current flow.

The stimulation device cuts off automatically the stimulation tension at the end of the selected duration. The yellow LED lapses and you can remove the stimulation tongs.

You may interrupt the stimulation process by pressing the red push button ON/OFF.

## 4. Technical Data

Measurements:	360 x 190 x 210 mm (B x H x D)
Weight:	approx. 2,5 kg
Mains supply:	230 VAC
Mains frequency:	45 - 60 Hz
Stimulation tension:	max. ca. 60 V
Stimulation frequency:	max. ca. 100 Hz
Duration of stimulation:	Level 1: max. approx. 50 sec Level 2: max. approx. 100 sec
Duty ratio:	70%