



## USER MANUAL ST 2515

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## STEENBECK ST2515 Manual Film Rewinder / Inspection Table

### 1.0 INSTRUCTIONS. (assembly)

Please read this instruction carefully.

1. The ST2515 is delivered complete ready for use in the lowest position and carefully packed in a plywood crate.  
Unpacking: remove top plate first than 'front' plate followed by right and left plate. Lift out table. **LIFT ONLY AT THE STEEL FRAME.**  
The ST2515 has no castors because of maximum stability.
2. Install the counter display (when delivered and removed for shipping)
3. Insert flat cable connector of the counter display (when delivered) to adjacent plug. (be careful not to bend any contacts).  
Install working lamp (when delivered) and plug it in the socket under the table. (fig.1 – 4 )
4. When counter is fitted, fit the sprocket to the counter pick up shaft (when removed for shipping). Make sure that sprocket is in the lowest position (turn sprocket while holding lower ring in position).  
Check if pinch roller arm closes properly.
5. Check line voltage and frequency correspond to the readings in the machine type and serial number label at the rear of the frame/housing.
6. Check if power plug fits into the local socket.  
if not, replace plug for a local plug:  
yellow/green: earth  
blue: neutral  
brown: live / phase
7. Please check the power ground system of the wall socket is OK.  
This is important for the safety of the operator and static electricity.
8. Check counter system (if delivered) by turning by hand the sprocket.
9. Check work lamp (if installed) and ground glass.
10. **Read the manual.**

## 2.0 INTRODUCTION STEENBECK ST2515:

Congratulations purchasing the flatbed 2 plate ST2515 manual film rewinder / film inspection table. This film table is a fine piece of film equipment and the ideal partner for film archives or film restoration companies.

The ST2515 offers:

- easy and safe manual film handling.
- very slow speed ideal for inspection film perforation, damages, cutting/ editing and cleaning film purposes.
- fast manual winding of 16 and 35mm picture / sound film and 17,5mm sound film in A and B wind .
- checking measurements of film by optional electronic universal counter. (option ST2258)

## 3.0 GENERAL FEATURES:

- Double geared ends left and right
- Solvent resistant table top with plenty space to work for operator.
- Maximum capacity of approx. 900 meter / 3000 feet of acetate film on bobbins or 16mm film reels or 1200 meter / 3600 feet of PE sound film, by using special bobbin and spool adaptors.
- Accurate counting using optional electronic universal processor counter with sprockets 16mm and 35mm.
- Large ground glass back-illuminated by a 7000K (approx.) light source.
- Socket is installed for the optional work lamp (max. 75 watt)
- One guide roller fitted with ball bearings for extended life.

#### 4.0 TECHNICAL DATA:

The 2 plate manual film rewinder / film inspection table is capable of handling all picture and magnetic sound films 16 / 17,5 / 35mm.

Take-ups with film plates to accept bobbins according to DIN 15531 and 16mm reels according to DIN 15621.

Power requirements: 220 / 240 Volts – 50 / 60 Hz.  
On request: 100 / 110 Volts – 50 / 60 Hz.  
Power consumption: approx. 150 watt.  
Table size: width 160cm. - depth 80cm.  
height table top: manual **adjustable from 68 till 107 cm.**

Weight: approx. 40 kg.

Fuses:

Main power inlet EU socket (rear of frame):

For 220/240 Volts: 2 x 2 A **T** - for 100/110 Volts: 2 x 4 A **T**

PSU counter system (inside behind cover fig.7 and 8)

For 220 / 240 Volts: 1 x 0,315 A **T**

For 100 / 110 Volts: 1 x 0,8 A **T**

All fuses are standard Slow blown / T. Do not use any fast blown fuses !

#### OPTIONAL EXTRAS:

ST 58 table working lamp

ST 2258 electronic universal processor counter  
including sprockets for (S)16 – 17,5 –35mm

## 5.0 IMPORTANT SAFETY / WARRANTY INFORMATION.

### 5.1 SAFETY.

Installation of the ST2515 can be done by a Steenbeck dealer or qualified/ trained technical personal.

Connect the ST2515 to a proper mains source (within +/- 10%) with the supplied power cord and should be connected to earth / ground properly.

Earth system must be 100% because:

- safety for the operator in cases of electronic problems within or outside the ST2515.
- safety for the electronics of the ST2515.
- carry off static electricity.

The ST2515 should be placed in a dry and dust free room.

Temperature: advisable: 5°C - 40°C (40°F - 105°F)

Humidity: advisable: 30% . . . . 70%

**Never** put any warm or cold drinks on the table top.

### 5.2 WARRANTY.

STEENBECK film equipment is manufactured with greatest care and precision. Before shipping, several tests are made for many hours to ensure our quality standards.

STEENBECK film equipment is made for a long life with a minimum of maintenance. The ST2515 is designed for (re)winding and inspection of all kinds of film (motion picture) and perforated magnetic sound film material made of nitrate, acetate or polyester by hand. Not for whatever other material.

If, nevertheless, any part or unit should turn out not to function properly within *ONE YEAR* of purchase the ST2515, please report to your Steenbeck dealer or the Steenbeck factory at once.

Defective parts or units will be either repaired or exchanged.

Steenbeck has the right to inspect the defective part or unit before replacing.

Defective parts should be packed well, shipping costs and risk are for the sender.

Costs for return packing and shipment are for Steenbeck, including risk.

Replaced parts change into our property.

We cannot be held liable for any further compensation.

Please note that our warranty does not cover any damages caused by excessive load, improper use, lack of maintenance or unauthorized intervention.

## 6.0 OPERATION INSTRUCTION ST2515.

### 6.1 PREFACE.

The Steenbeck ST2515 manual film rewinder / film inspection table is a highly reliable tool for working on your valuable motion pictures and magnetic sound films. It is able to handle 16, 17,5 or 35mm film and sound material.

Be sure only trained personal is working with this film rewinder.

**Please be aware of danger caused by long hair, loose shawls, neckties or wide sleeves when caught by revolving machine parts.**

The ST2515 may only be operated in rooms under normal conditions of temperature and humidity without corrosive atmosphere.

Be sure only to use a fully adjustable working chair according to DIN 4551 to avoid orthopaedic problems.

The manufacturer of the ST2515 cannot be held responsible for any damage caused by improper use of equipment or material.

### 6.2 WINDING UNITS.

All types of film cores/bobbins, 50mm (2"), 75mm (3") and 100mm (4") can be used on the Steenbeck ST2515.

Film capacity:

900 meter / 3000 feet of 0,15mm picture film stock.

1200 meter / 3600 feet of 0,09mm standard magnetic sound film stock.

The ST2515 has special adaptors for bobbins (fig.5-13) and 16mm spools.(14)

We advise to put a thin carton sheet under the spool, so you can't damage the film plate.

For 35mm reels there is no adaptor available.

The construction of the winding units left and right are set as follows;

For A wind:

-right unit: turning the wheel right/clockwise, plate turns anti clockwise.

-left unit: turning the wheel left / anti clockwise, film plates turns clockwise.

For B wind:

-v.v.

From A to B wind.

## 7.0 OPERATION OVERVIEW.

1. Switch to activate counter system (fig. 1 - 1)
2. Switch illuminated ground glass (fig. 1 - 2)
3. Fuse (fig. 1 - 3)
4. Working lamp socket (fig. 1 - 4)
5. Guide roller, changeable for 16 / 17,5 / 35mm (fig. 2 - 9)

### **Counter system (option ST2258):**

6. Counter pick up with interchangeable sprocket for 16mm and 35mm (fig. 2 - 8 )
7. Counter display (optional) (fig. 2 - 5)
8. Pressure arm, interchangeable for 16mm and 35mm (fig. 2 - 6)
9. 16 / 35mm format counter switch (fig. 2 -7)
10. Illuminated ground glass (fig. 3 - 8).
11. Film ruler for 16mm and 35mm (fig. 3 - 9)
12. Winding units (fig. 4 - 10)  
Manual leveller for adjusting height of the table (fig. 4 - 11)  
The manual leveller can be removed by unscrewing the screw (fig. 4 - 12)
13. Bobbin and spool adaptors (fig. 5 - 13 / 14)
14. Box for sprockets and pressure arm (fig. 6)  
Only supplied with counter system.  
Sprocket 35/17,5mm sound (15)  
Sprocket 16mm or 35mm picture (16)  
Pressure arm 16/17,5mm (17)
15. Hexagon screws (3mm) holding the cover plate electronic compartment. (fig. 7 - 18). Only to be opened by engineer.
16. Electronic compartment. (fig 8)
 

(19)	PSU ground glass light	
(20)	PSU counter system	(option ST2258)
(21)	Counter board	(option ST2258)
(22)	Counter pick up system	(option ST2258)



Fig. 1



Fig.2



Fig. 3

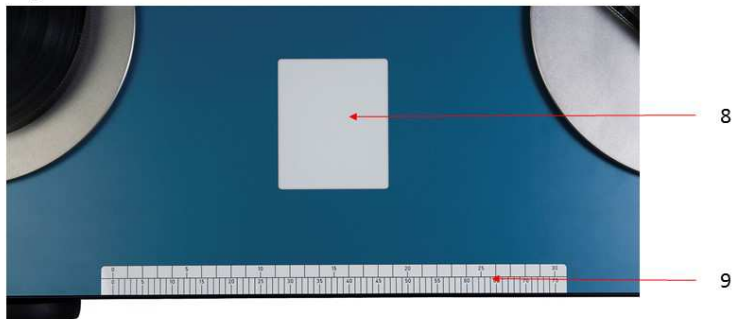


Fig. 4

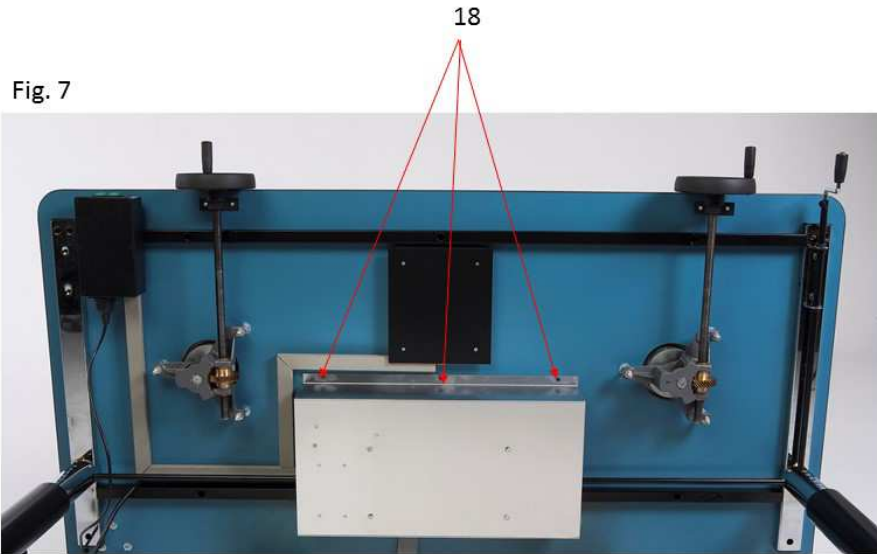


Fig. 5



Fig. 6





## 8.0 UNIVERSAL COUNTER. (option ST2258)



The Steenbeck universal counter is designed to measure film length (all formats) and calculate the position and time information in common use. Additionally, the universal counter may offer extra possibilities for more effective work on your film rewind / film inspection table.

The counter / calculator functions are controlled by keys No. 1 – 10 (right to left)

- |     |                  |   |
|-----|------------------|---|
| 1.  | frames           | counts and displays number of frames (max. 1.999.999)     |
| 2.  | feet 35mm        | displays film length in feet (16 frames = 1 foot)         |
| 3.  | feet 16mm        | displays film length in feet (40 frames = 1 foot)         |
| 4.  | feet 8Smm        | displays film length in feet (72 frames = 1 foot)         |
| 5.  | m / dm 35mm      | displays film length in meters (1 meter = 52,630 frames)  |
| 6.  | m / dm 16mm      | displays film length in meters (1 meter = 131,200 frames) |
| 7.  | m / dm 8Smm      | displays film length in meters (1 meter = 236,200 frames) |
| 8.  | min / sec 25 FPS | displays elapsed time (1 second = 25 frames)              |
| 9.  | min / sec 24 FPS | displays elapsed time (1 second = 24 frames)              |
| 10. | min / sec 18 FPS | displays elapsed time (1 second = 18 frames)              |

The two digits to the right always indicate numbers of frames.

The other digits show the counter value according to the chosen film format.

A red LED on the key indicates the activated display format.

The green LED is not in use with the ST2515 / ST2520 / ST2525.

Together with the keys you will find one switch and two pushbuttons on the counter front panel.

Pushbutton C = Clear

Counter is reset to ZERO.

Pushbutton HOLD

Display is stopped at actual reading.

The counter keeps on counting. When releasing Pushbutton, counter value is transferred to display.

Switch DIST CTR

Setting 1: distance counter on

Setting 0: distance counter off.

The distance counter is activated to measure partially length or time values.

It can be reset to ZERO (C)

without effecting the main counter.

## 9.0 MAINTENANCE INSTRUCTIONS.

The Steenbeck ST2515 manual film rewinder / film inspection table is manufactured and tested with the greatest care possible. That is why it only requires a minimum of maintenance to stay in good working order.

### CAUTION:

Always make sure to disconnect the mains cable before opening the cover of the electronic compartment (fig. 7 )

Take the film of the film plates.



All works behind the cover must be carried out by skilled and trained staff only.

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