

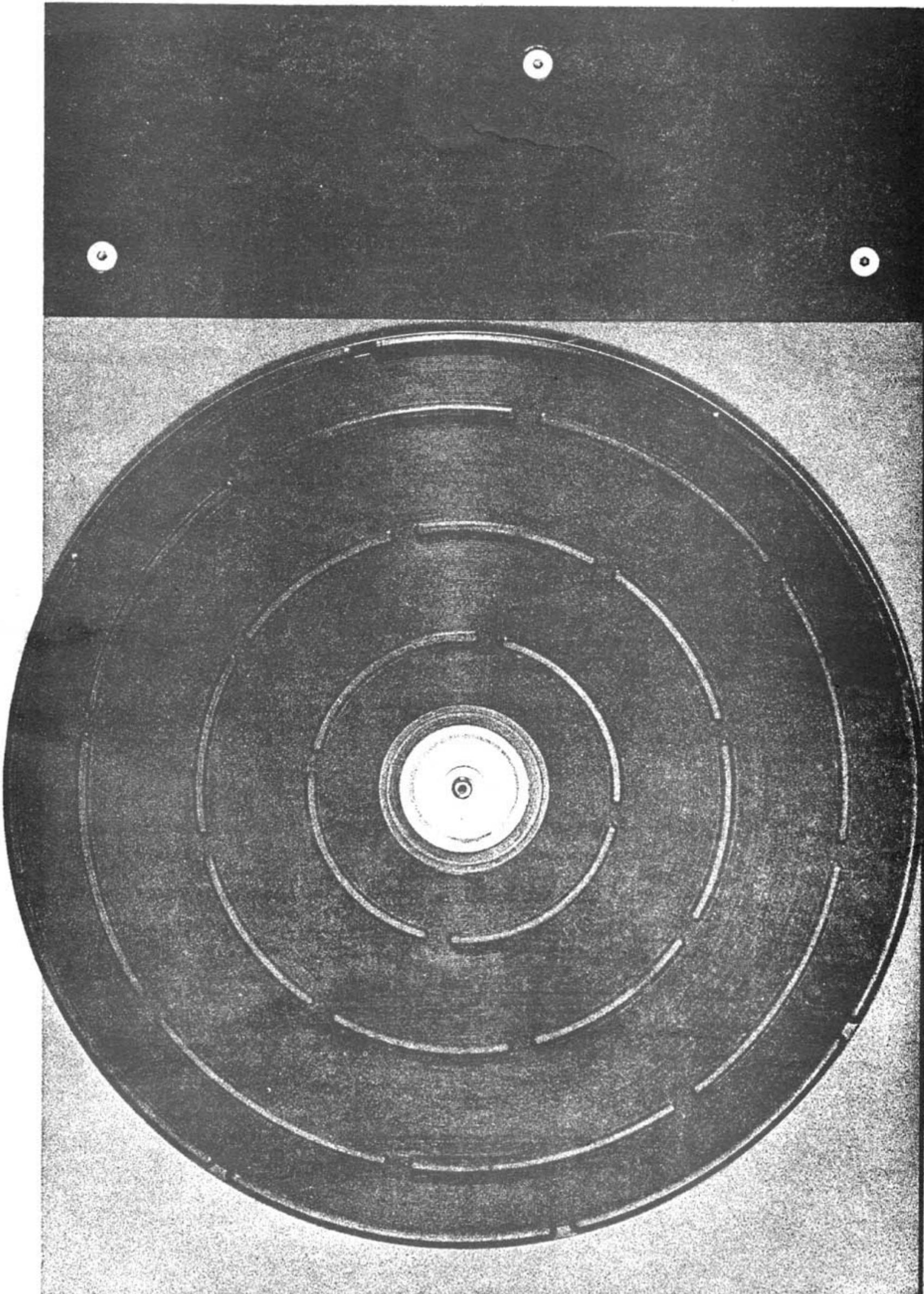
The home of the turntable

# THE VINYL **ENGINE**®

For more turntable manuals and setup information  
please visit [www.vinylengine.com](http://www.vinylengine.com)

# THORENS

# Service TD125MKII



**THORENS**  
TD 125  
MADE IN WEST-GERMANY  
UNDER SWISS LICENCE



ON  
OFF

+

33 45  
16

## 1. Electronically adjustment

### 1.1 Voltage adjustment of phase 1:

Connect an AC-meter to the soldering points "ge" and "rt" of the printed circuit-board. Adjust voltage at

45	RPM to 6	V by means of potentiometer	A 1 45
33 1/3	" "	5 V " " " "	A 1 33
16 2/3	" "	3.2 V " " " "	A 1 16

### 1.2 Voltage adjustment of phase 2:

Connect the AC-meter to the soldering points "ge" and "bl" of the printed circuit-board. Adjust voltage at

45	RPM to 6	V by means of potentiometer	A 2 45
33 1/3	" "	5 V " " " "	A 2 33
16 2/3	" "	3.2 V " " " "	A 2 16

If possible, check sinusoidal shape of both output voltages phase 1) and 2) with an oscilloscope.

### 1.3 Speed adjustment:

Bring the red knurled wheel of the pitch control (R 14) into a center position.

Adjust the speed potentiometers F 45, 33, 16 to a standstill of the respective stroboscope ring:

F 45 at 45	RPM
F 33 at 33 1/3	"
F 16 at 16 2/3	"

When a special adjustment has been done, it is necessary to recheck the output voltages according to 1) and 2).

## 2. Maintenance

- 2.1 Turntable. The turntable bearing shaft revolves in self-lubrication bearings. Under normal conditions lubrication is not necessary before several 1000 hours of running. When lubricating of the turntable bearing is necessary use exclusively Caltex Regal Oil B (ROB) as supplied with our lubrication kit available as an accessory at your dealer.
- 2.2 Motor. Due to the slow operating speed of the synchronous motor no lubrication is necessary under normal operating conditions.
- 2.3 Drive-system. The TD 125 turntable, the belt, the motor pulley and the periphery of the inner turntable should be entirely free of any trace of oil or grease. If necessary clean them with a lint free cloth dampened with denaturated alcohol or spirit.

## 3. Replacement of parts

### 3.1 Neon stroboscope bulb

Remove the inner and outer turntable, the neon bulb is then accessible, located under a cylindrical lens at the upper edge of the black stroboscope plate. After unscrewing both screws Fig. 3, (1) left and right beneath the lens, the lens and the neon bulb in its plastic housing can be removed. Then both lead terminals may be pulled off the neon bulb.

### 3.2 Generator printed circuit

The entire generator circuit board can be removed after unscrewing both hexagonal slot screws which are accessible through the holes in the printed circuit Fig. 4 (3).

The power and the motor leads may be unsoldered at the printed board terminals. The colour code of the motor leads are indicated at the copper side of the printed board.

For all replacements described in the following part it is necessary first to remove the spring suspended chassis.

Unscrew the earth connecting cable between both chassis at one end Fig. 4 (5). Unscrew the nuts Fig 4 (6), remove the spring washer, the spacer and the rubber grommet which are situated under every knurled nut. Now the spring suspended chassis can be removed.

### 3.3 The main switch

The microswitch Fig. 5(7) is attached by means of two 3 mm metrical screws Fig. 5(8) which are screwed into a threaded plate behind the main chassis. After replacing the main switch it has to be adjusted in such a way that the switch lever positively actuates the switch.

For this reason tighten the screws so that the micro-switch can be moved. When the switch is correctly adjusted fasten the screws completely.

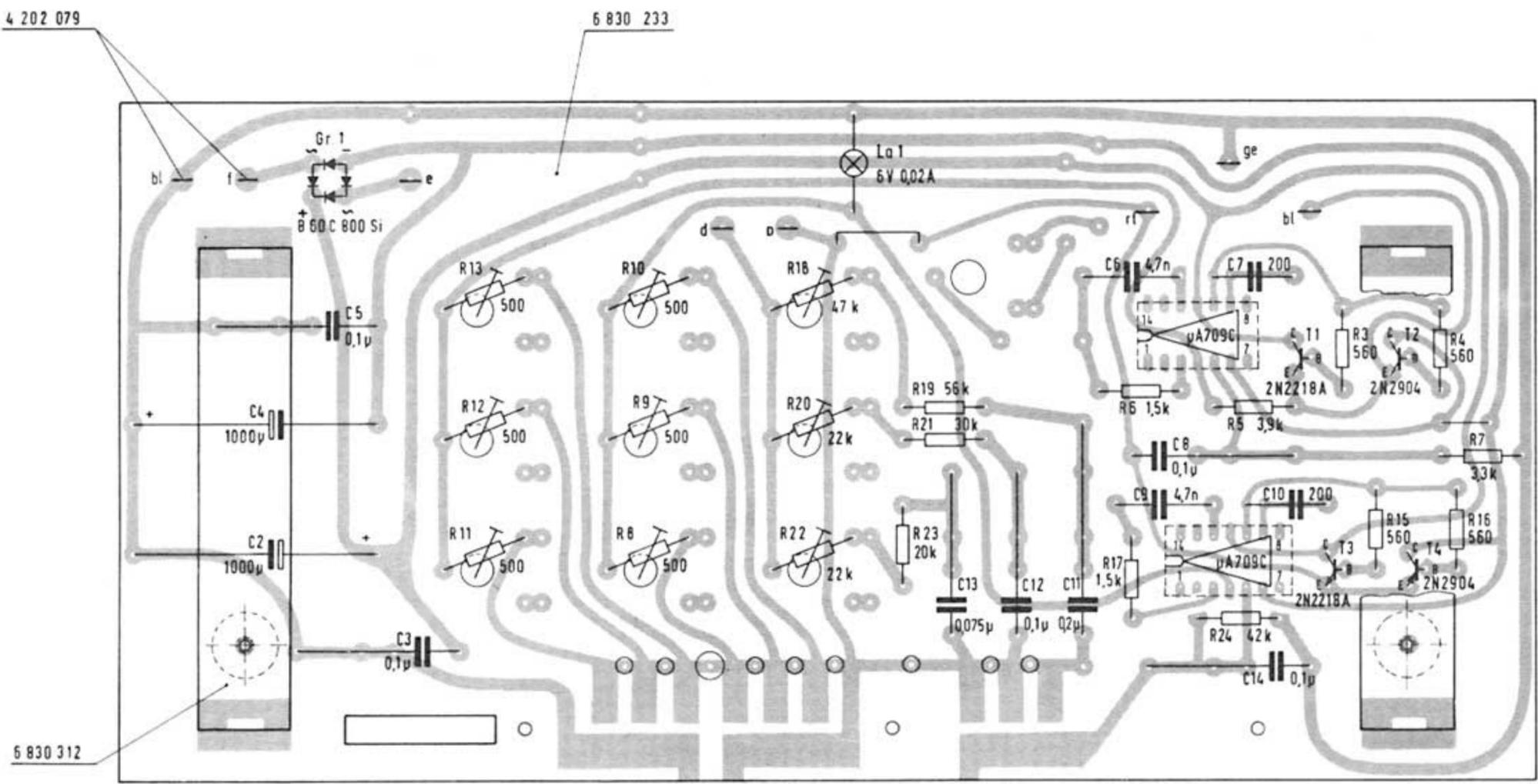
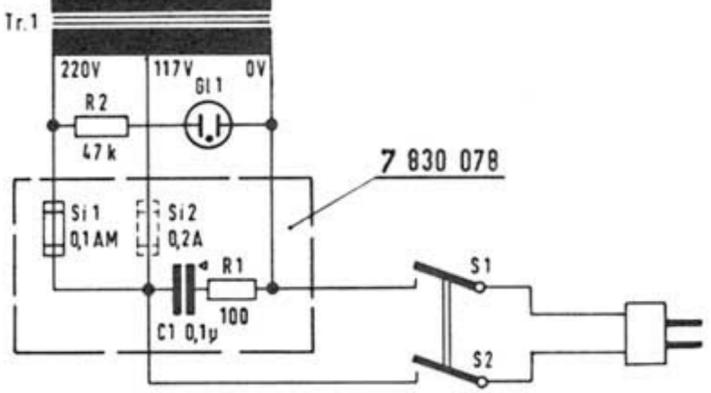
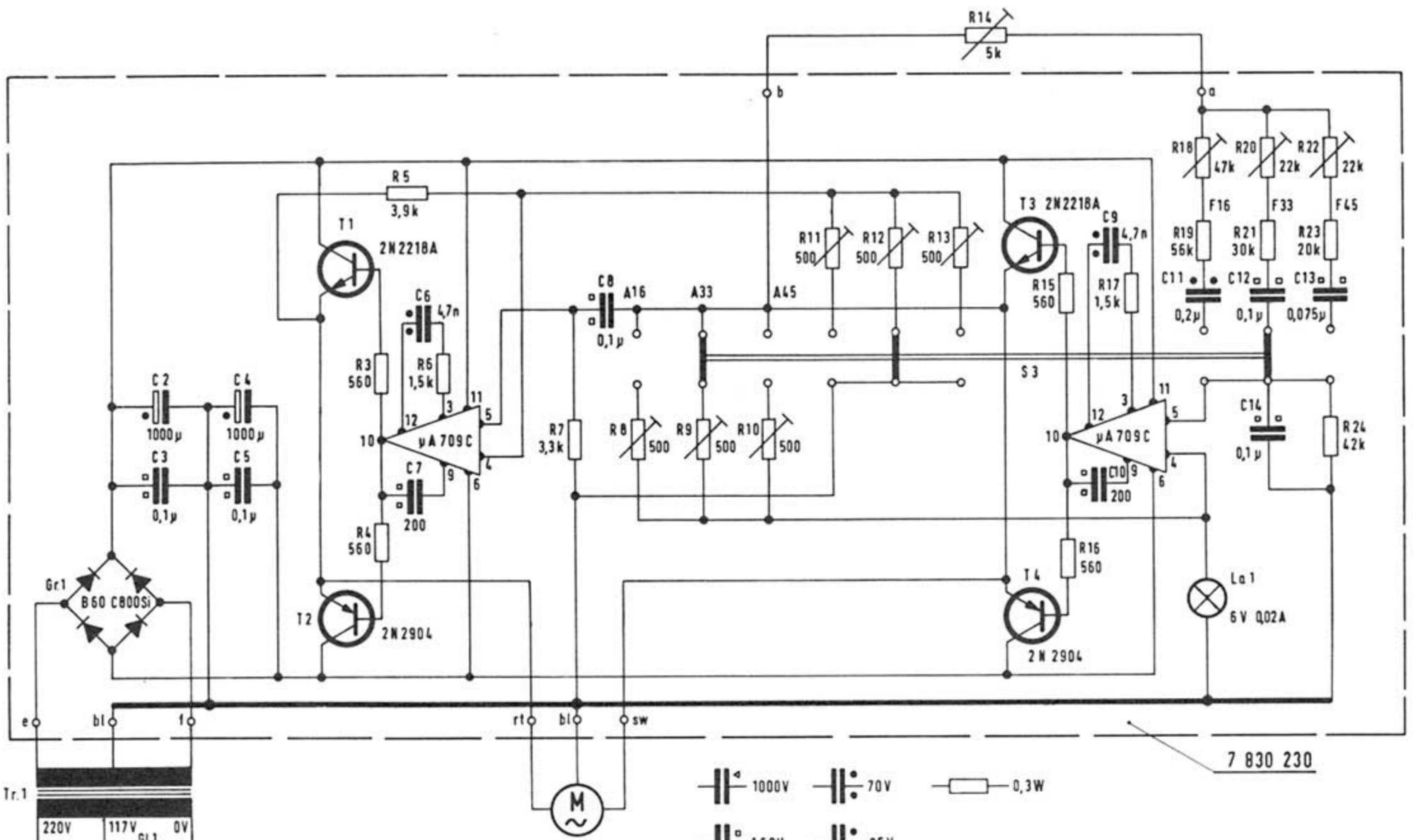
### 3.4 The stroboscope lens system

Normally it is not necessary to replace these parts, but the mirror and the lens system may be soiled after a certain time. To clean this system unscrew both screws Fig. 3 (2) and remove the entire neon bulb carrier with the lens system.

Then the mirror under the front panel is accessible too, for cleaning purpose.

### 3.5 The front panel

Remove first the slide-bars. They are fastened with a hexagonal slot screw. Then unscrew the three oval headscrews which are accessible at the front edge of the operating panel after the suspended chassis has been removed.



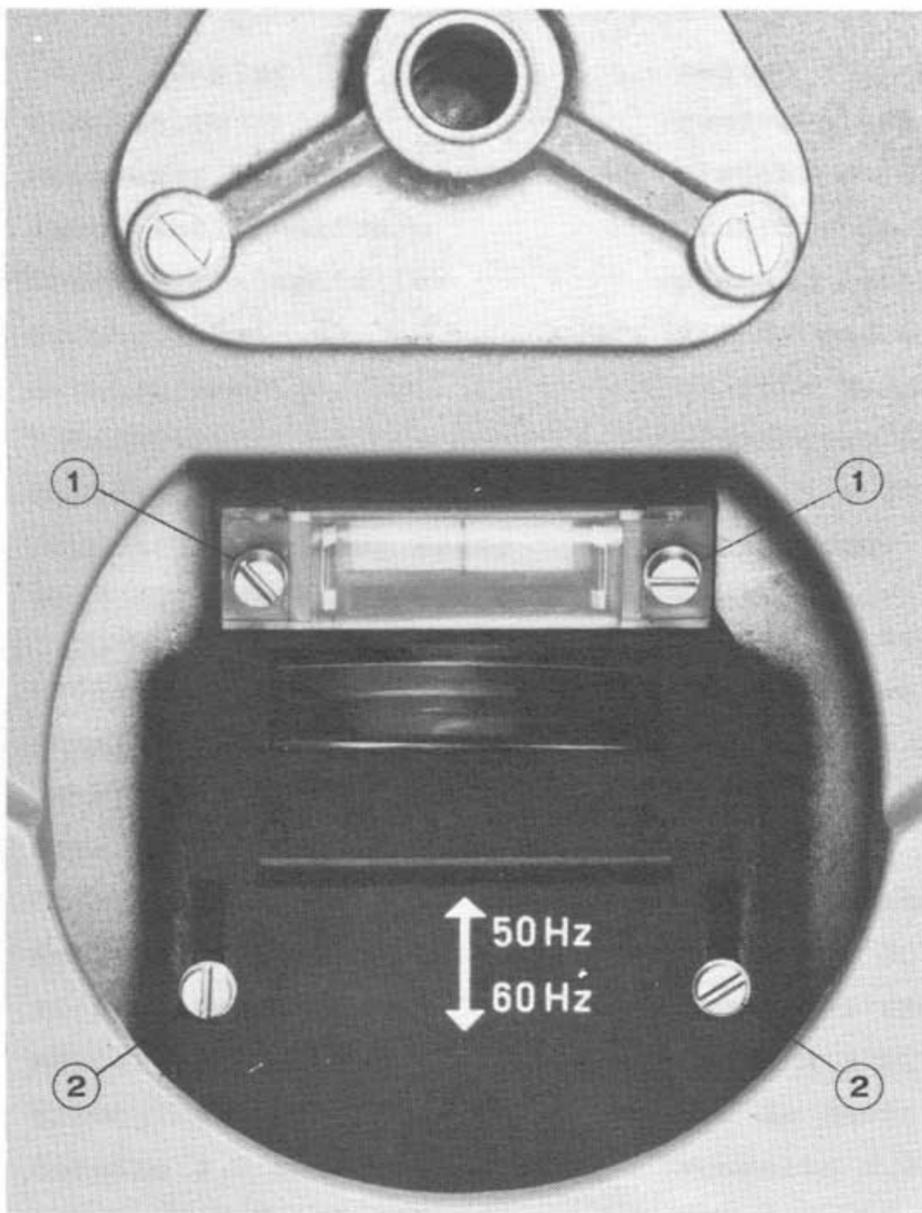


FIG. 3

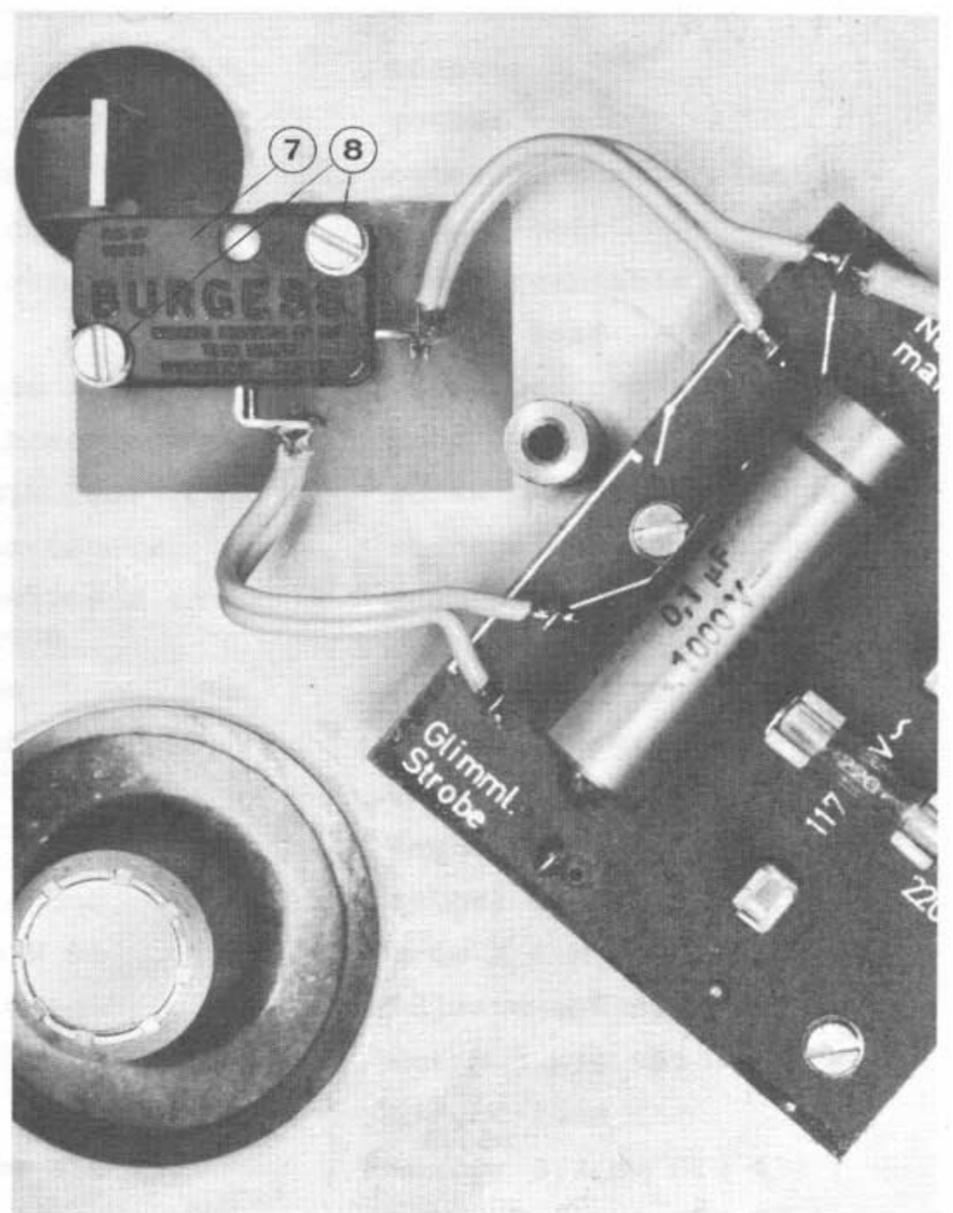


FIG. 5

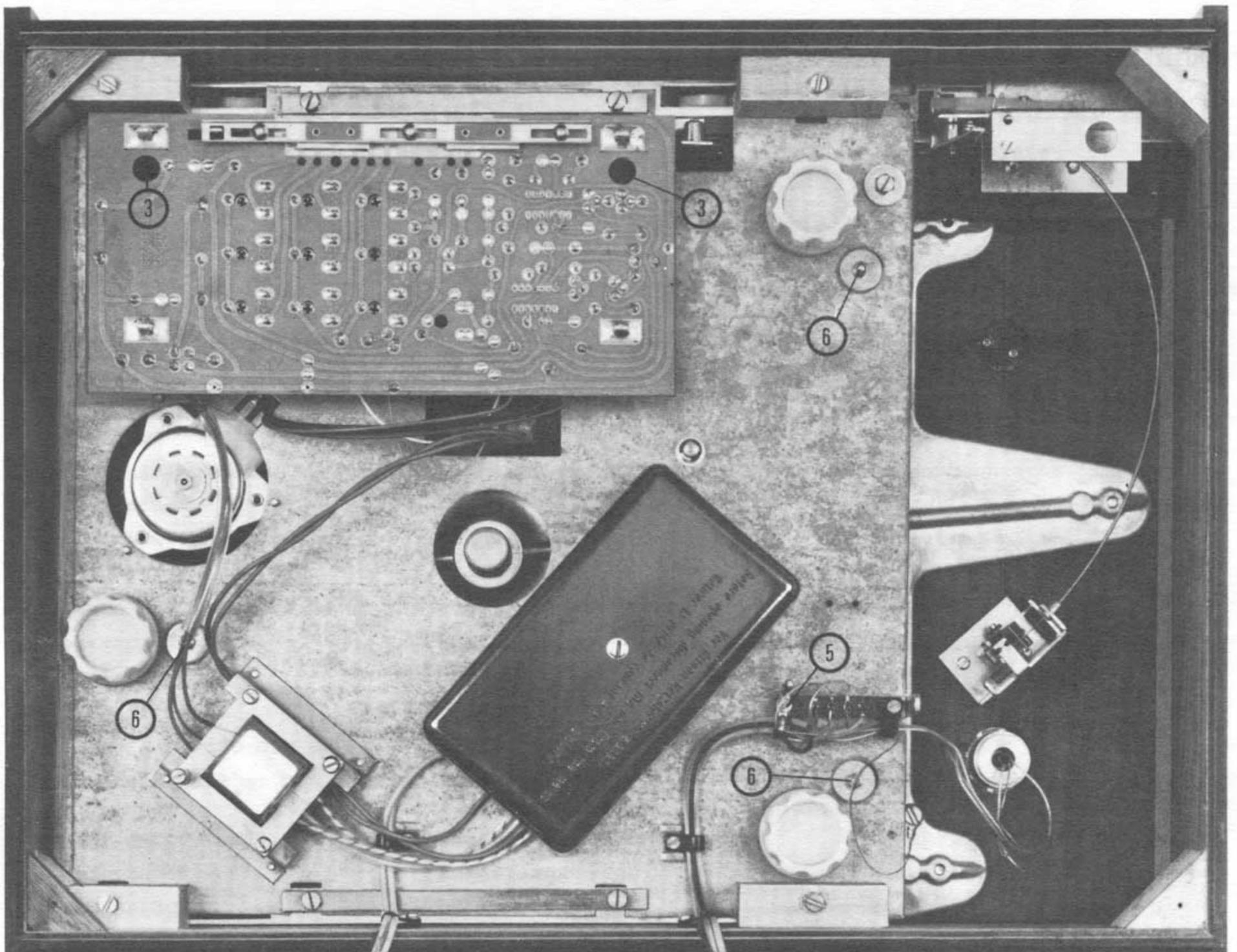


FIG. 4