

## Repair Oldelft Cinemonta editing table



### **Symptoms**

The platters rotate normally, but the film drive (before the lantern) doesn't work or doesn't work properly.

By opening the cover under the table there are three electro-magnetic clutches, which correspond to the three control switches on the table, driven by toothed belts from the main motor and allow to engage / disengage three functions (including the drive of the film) : when the switch is switched, the corresponding clutch must "stick"

Here, it sticks badly, it skates and the film is not driven.

### **Possible cause**

These three clutches are powered from a diode bridge / rectifier

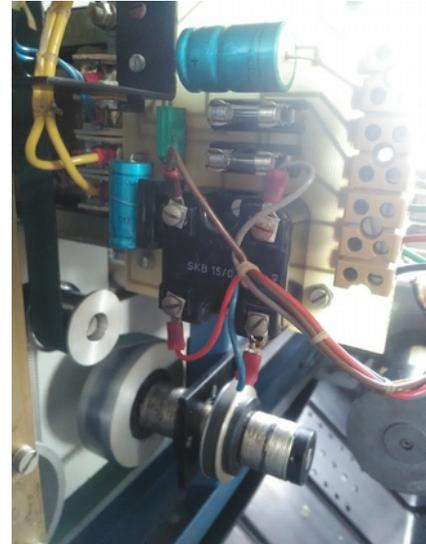
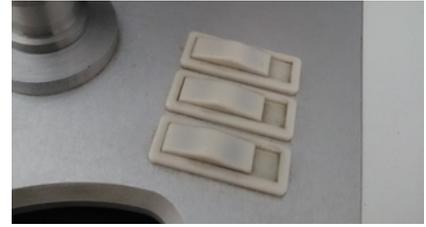
It only takes one HS diode for the voltage to be too low to make them stick

## To check

- Set the three switches to OFF (on the left)
- Unplug the table
- Open the cover and locate the diode bridge (ref SKB 15/02 A2) near the main transformer
- Plug the table back in and turn it on (main switch)
- On the diode bridge, take the voltage between the two AC input terminals marked with ~ symbols (multimeter in V AC mode). There must be approximately 16 to 18 V AC (otherwise there is a power supply problem from the transformer)

Then take the voltage between the two DC output terminals marked with + and – symbols (multimeter in V DC mode).  
There should be about 5 to 7 V DC.

If the voltage is much lower (for us less than 1V), the diode bridge is out of order and must be replaced.



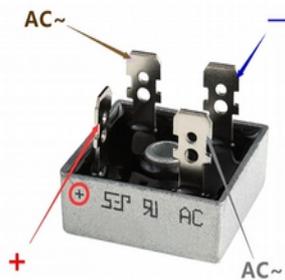
## Repair

It is possible to find the same model of diode bridge for standard exchange (\$50 by searching for SKB 15/02 A2).

But it's also possible to replace it with any other model at \$2 or \$3 with  $I \geq 15A$  and  $PIV \geq 200V$ , type KBPC1502 (or KBPC1504, KBPC1508,..) →



- Unplug the table
- Identify the polarities / colors of the wires at the terminals of the HS diode bridge. (here + Red - Blue ~ Gray and Brown)
- Disconnect the terminals and remove the HS bridge from its support
- Reconnect the lugs to the new bridge (tin solder or crimp lugs) respecting the colors / polarities



- Screw the new bridge back onto the support
- Reconnect the table and test : by manipulating the three switches, you should hear the clutches slamming while sticking, and the film drive works again...