

## Checklist ( maintenance ) A4 thermal-copier mod. 953H1

Between 2007 and 2018 we produced different versions, the differences are described as follows:

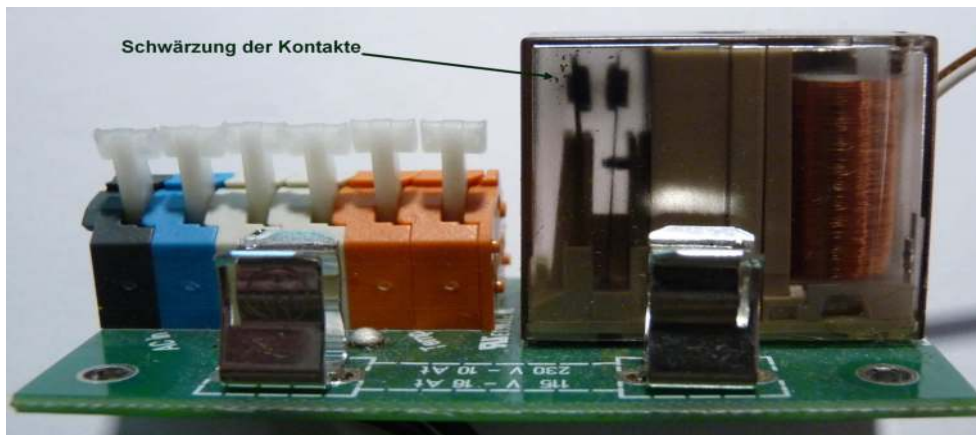
a) **Rubber-roller** ( since 2007 until Oct. 2011, all serial-numbers as S1-XXXX, ..., S8-XXXX until A4US0639

This roller is getting slippery over the years, difficult to clean and then doesn't transport the carrier smoothly through the machine - thus was replaced by a silicone-version.  
The rubber-roller should be replaced, also shows moderate resistance against heat!

b) **Silicone-roller with metal-core** ( semi-transparent silicone-tube ) ( after serial-number A4US0640 )

This version can be easily cleaned with white spirit and has a good grip for transport of the carrier.  
And also shows a good resistance against heat!

c) **Connecting-PCB with relay** ( all serial-numbers as S1-XXXX, ..., S8-XXXX until A4US3731 )



According data-sheet of the manufacturer this part survives min. 40,000 cycles, this means a life-span of 36 years with 5 copies per day on 220 days per year.  
The plastic-case shows increasing blackening ( = Schwärzung ), indicating the wear of the contacts.  
We do urgently advise to replace this part every 5 years, especially if the machine is used for many copies per day.

d) **Temperatur-sensor** ( left end of reflector )



Since 2007 different versions have been used, after Feb. 2018 the 80°C. version as shown above.

## follow-up page 1

Please check the marked switching-off temperature and only use the version shown above marked SH6 080.10!

### e) **Inner parts of machine** ( under cleaning-cover ) **and fans:**

This zone should be free of dust and any other foreign particles as flammable paper-residues. For cleaning please use a vacuum cleaner with fine tip and a cloth moisted with white spirit. For the cleaning of the fans please use a soft brush.

### f) **Glass-tube:**

Must be absolutely clean and free from scratches - inside and outside. For cleaning please use a cloth moistened with white spirit.

### g) **Rotation-Control** ( right end of roller ):

Since March 2007 a twice-slotted disc, later a metal-disc with 4 slots was used. The disc must be positioned in the middle of the slot of the small PCB with the photo-sensor.

Both components of the photo-sensor must show an angle of 90° and may not be deformed ( transport-damage ).

### h) **Transformer** (PCB) all Serial-numbers as S1-XXXX, ..., S8-XXXX until A4US3412:

After serial-number A4US3412 ( April 2018 ) a new transformer was used, that needs a special version of connecting-board. So please let us know the serial-number if you order spare-parts.

### i) **Lamp and lamp-cables:**

The lamp must be centered correctly, both white porcelain-ends must show equal length on right and left end of reflector. Both cables may not have contact with sharp edges of other parts.

Especially with the cover of the rotation-control. This metal cover has been installed in different versions to avoid abrasion.

The lamp must be completely clean inside and outside. Any blackening, probably caused by tiny cracks of the glass leads to bad copy-results.

### j) **Reflector:**

The reflector is made from polished aluminium, gold-coated and thus very sensitive. In the outer areas foreign particles might be burnt in, causing lower efficiency in the outer zones of the copy.

Try a cleaning with a very soft brush and moderate pressure.

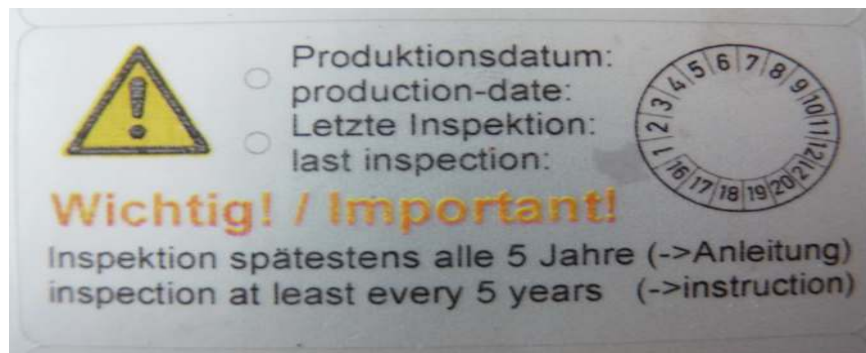
### k) **Software:** ( since serial- A4US3732 with version M34, since A4US3835 with version M37 )

In 2007 version 1.02, since March 2007 version 1.03 and 1.04 have been used until serial-number A4US3731. Please request availability of boards with these older software-versions.

Since August 2018 software-version M34 and M37 are used in combination with a new mainboard with 2 relays and a filter mounted above as **new model 953H1(a)**.

## follow-up page 2

### 1) Label on back with production-(and inspection-)date:



Since Jan. 2017 a label on the back of the machine shows the production-date. In case of maintenance please add a label with date ( MM / YY ). We can supply these labels upon request.

If you want to know the production-date of a certain serial-number please send a request, we've all serial-numbers on file!