

# TIMmy™

Thermal copier

## Australia/ New Zealand User manual



## Manufacturer and distribution worldwide:

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For all technical problems, please contact the local authorised  
3K Instruments Service Agent first



NEHOC Australia Pty Ltd · Established 1969  
Postal: PO Box 175, Narrabeen NSW 2101  
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# Declaration of Conformity:

The design, manufacture and delivery of the thermal copier comply with the safety directives of the following EU regulations:

- DIN EN 62368-1: Safety of Information Technology Equipment
- DIN EN 55014-1/2: Electromagnetic compatibility Requirements for household appliances, electric tools and similar apparatus
- DIN EN 50106: Information Technology Equipment Routine electrical safety testing in production
- All PCB's used in the thermal copier meet the RoHS – standard
- Power Cord is AU/NZS 3760:2022 non-tagged 'New To Service'. Class 1 Annual test recommended.

This device is only suitable for intended use by single artists/ personal uses in single person studios with the usual environment and temperature there.

**Children should NOT operate the device!**

**Important note for users in the UK:**

The connection cable of this device is equipped with a plug with an integrated 10A fuse. It is important to use this cable to connect to the power outlet. If this plug does not fit, the cable must be replaced with an appropriate one with a matching plug. Make sure that a 10A plug is used. If a plug without a fuse is used, the cable and the associated fuse in the electrical distribution board must be suitable for a continuous current of 10A.

Dear Customer,

We congratulate you on the purchase of our thermal copier TIMmy. TIMmy produces high quality copies and is virtually maintenance free. The high quality of the copies and the low maintenance operation make TIMmy the best choice among thermal copiers.

This manual provides you with safety, setup, operation and maintenance information. Please take the time to read this manual. This will help you get the best possible copies and avoid problems and hazards to yourself and/or damage to the equipment.

**The following symbol indicates an important safety instruction!**

**Disregarding it can lead to injuries to persons or damage to the device!**



## Important notes:

Before commissioning TIMmy, please make sure that the operating voltage indicated on the type plate on the rear corresponds to the local mains voltage. If not, do not operate and contact NEHOC Support.

- Place the thermal copier on a stable, flat and heat-resistant surface. There must be enough space (min. 10cm - 4 inches) around the device to ensure sufficient cooling.
- Heat is generated during the copying process! Especially if you make several copies in succession, some parts inside the device become very hot! Do not touch any parts (e.g. the glass tube) underneath the cover as long as the part are hot.



- If the thermal copier is no longer required after use, it must be switched off after the end of the cooling process! For complete mains disconnection when not in use, please remove the mains plug.



- Never operate TIMmy without carrier. Machine is designed to always be used with a carrier to hold the Artwork and Spirit Paper. Use without a carrier is improper usage and may cause damage to drive roller, glass, lamp and internal parts not covered by warranty.



## Safety instructions

Your thermal copier has been designed and tested to meet strict safety criteria. Observing the following information will ensure continued safe use of your device.

### Electrical safety

- Use only the supplied 10A 3-pin IEC C13 power cord.
- Only connect the device to a socket with a protective earth connection. If you are unsure, consult an electrician.

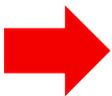


Make sure that the operating voltage indicated on the type plate on the rear panel corresponds to your local mains voltage. The power outlet must be sufficiently fused (see technical data).

When using an extension cord, make sure that it is approved for the corresponding current. If you will be absent for a longer period of time, please disconnect the device completely from the mains. However, this must not be done during the cooling process. (as long as the fans are running)

### Warning:

**At the end of the copying process, please do not leave the machine until the lamp has actually turned off.**



If this is not the case, disconnect the power plug immediately. Do not operate the device again under any circumstances.  
Contact NEHOC Support immediately for repair.

## Warning

- Avoid the risk of electric shock by using sockets/cables with protective earth.
- Electrical devices can be dangerous if used incorrectly.
- Avoid tripping hazards caused by the connection cable.
- Do not place anything on the connection cable.
- Do not block the ventilation openings. These are necessary to prevent the device from overheating.
- Make sure that no objects fall into the device, e.g. paper scraps or staples.

## Warning

Do not insert any metallic objects into slots or openings of the device. Contact with live components can cause fires or even electric shocks.

If you notice unusual noises during operation:



- 1.) Switch off TIMmy immediately.
- 2.) Unplug the power cord from the wall outlet.
- 3.) Contact NEHOC Support to solve the problem.

## Warning



- **The housing may only be opened by authorized qualified personnel. Before opening, the device must be switched off and disconnected from the mains!**

# **The correct installation site**

**Maximum ambient temperature: 25°C / 77°F**

**Do not expose the thermal copier to direct sunlight. Direct sunlight may damage TIMmy.**

**Do not place TIMmy near a radiator or air conditioner.**

**Avoid humid or very dusty places.**

**Place TIMmy on a stable, level and heat-resistant surface.**

**Uneven surfaces can result in mechanical problems and difficulties with template transport.**

**There must be sufficient space (min 10cm - 4 inches) around TIMmy to ensure adequate cooling.**

# Commissioning: Unlocking Transport Screws



- 1.) Before attaching power cord, turn the device over so that the underside is easily accessible.
- 2.) Use the supplied Allen key to loosen the two screws marked in red. 1.5-2 turns is sufficient. (do not unscrew completely). Replace Allen Key to holder.
- 3.) Keep the complete packing material such as the cardboard box, foam parts, Allen key for possible transport for maintenance.
- 4.) Now connect TIMmy with the supplied power cord to a suitable socket. Observe the "Safety instructions !

# Working with TIMmy

## Switch on

Turn on the main switch on the right side of the rear panel. The white led ring on the front lights up. TIMmy is now ready for its first copy.

## Feed control

- 1.) If you don't have any experience yet, start with a medium setting (see test exposure) and look at the result.



**Smaller digits produce darker copies, larger digits produce lighter copies.**

## Inserting the carrier

- 2.) The filled carrier (see instructions) is inserted into the feed slot on the front of the unit as far as it will go. (Regularly ensure that the fan is operating.)



To start the copy, press and hold the Copy Button above the speed control knob for the duration of the copy, until the carrier exits. Important: DO NOT release or the copy stops, in which case press the Copy Button to resume (a line may appear in design from stopping).

## Cooling

- 3.) After exposure, release the start button.

Do not turn off the main switch while TIMmy is cooling down.

This is important so that the heat generated during copying is transported out of "TIMmy".

- 4.) If TIMmy is no longer required after the cooling process, it must be switched off.

## Copy process

Please refer to the separate instructions for using the copying foils and carriers. For reliable results, use only NEHOC Teflon or NEHOC HiRes/ Super Long carriers. Due to the heat generated during copying, the feed rate must be increased accordingly when making several copies in succession.

### Carrier Must be Used

A suitable carrier is absolutely necessary to avoid a document jam and to keep the device clean. It must be able to withstand the heat generated during exposure. It is best to use the carrier supplied, which has been specially developed for its application. Carriers are consumable parts and must be replaced from time to time. (contact your place of purchase/ tattoo wholesaler).

## Template size

You can use templates with a maximum width of 216 mm (8.5 inches).

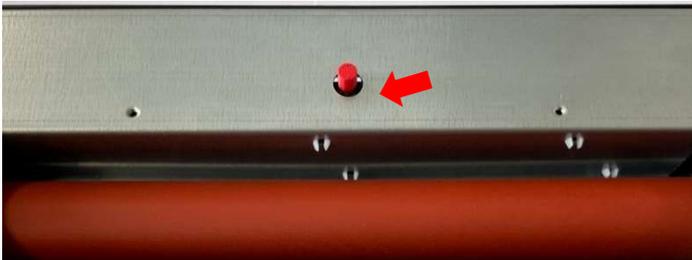
# Maintenance and repair

Cleaning of the interior (such as glass tube and drive roller)

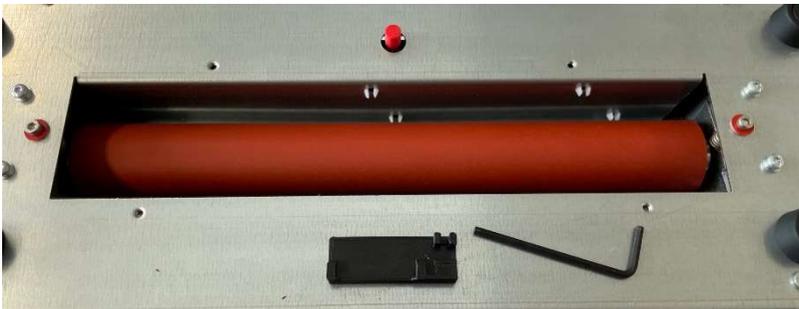
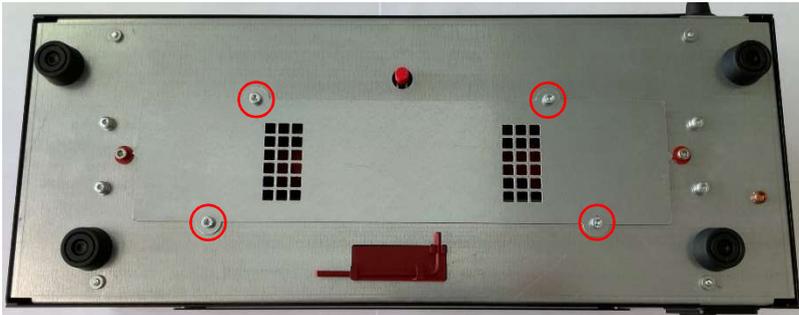
- 1.) If wax adhesions, other impurities or even loose parts such as paper residues or similar are found on internal parts of the copier due to the wax-coated stencil papers, these must be removed immediately.
- 2.) Wax adhesions can best be removed with a suitable cleaner (non-flammable!) or a lint-free cleaning cloth after opening the cleaning flap.
- 3.) For this purpose, the magnetically closing cleaning sliding cover can be opened by pushing the cover back.



The position of the glass tube and drive roller can be selected as desired by pressing the red Feed Switch located on the underside of the device.



- 4.) To clean the drive roller, turn the device upside down. Then unscrew the 4 marked screws on the underside using the tool supplied and remove the cover.



- 5.) After cleaning, the unit should first be well ventilated with the cleaning cover open and only put back into operation when no more moisture from the cleaning agent can be detected. Then close the cover.

### **Cleaning the housing**

The housing can be cleaned with a mild commercial cleaning agent (e.g. dishwashing detergent) or Isocol type brand rubbing alcohol.

# Troubleshooting

Question: TIMmy cannot be switched on?

Response:

- Turn on TIMmy on the back panel.
- Make sure that the power cable is plugged in correctly.
- Check the LED on the Speed Control Dial.
- Contact NEHOC Support (02) 9979 9700.

Question: TIMmy is very loud after a copy?

Response:

- Please check that there is no dirt/ lint/ hair or paper cuttings in the fan.

Question: TIMmy does not turn off after I release the start button?

Response:

- Switch off the device immediately and contact NEHOC Support. The device may not be used any further.

**Question: TIMmy does not create a copy even though I follow the instructions exactly.?**

**Response: Please check if you are using a suitable printer for**

- **template creation. See page 23**

**Question: The white LED ring is on?**

**Response:**

- **TIMmy is ready for a copy.**

**Question: The glastube is not turning while making a copy?**

**Response:**

- **It is not a mistake if the glass tube does not rotate during a copy.**
- **Check the Transport Locks have been released prior to use.**

## Warranty

The information in this manual may be amended or changed at any time.

Each thermal copier has been extensively tested during and after production (function, clean result, electrical safety). Therefore, we guarantee proper functioning of the device for the legally prescribed period after purchase.



**Excluded from the warranty are all parts made of glass such as lamp and glass tube. As well as damage caused by transportation.**

In case of any malfunctions, please contact NEHOC Support, your Australian/ New Zealand specialist first. For possible returns, please use the original packaging materials as well as the transport locks!

This document is intended to be used as a guide only, NEHOC Australia Pty Ltd may not be held responsible for any fault or misinterpretation that may occur from its use by the customer.

The manufacturer accepts no liability for errors in these instructions or for any consequences resulting from them.

## Technical data

	Australia, Europe, New Zealand, .....	USA, Canada.....
Rated voltage	230V / 50 Hz	115V / 60 Hz
Rated current	4,5A	9A
Internal fuse (lamp)	10 At – 5 x 20 mm	16 At – 0.2 x 0,8 Inch
Power consumption (max.)	1150 W	1150 W
Fuse protection socket	10 A	15A
Height	110 mm	4,3 inch
Depth	150 mm	6 inch
Width	360 mm	14 inch
Wheight	3,8 kg	8,3 lbs
Template size (max.)	210 x 300 mm	8,5 x 11 inch
Carrier size	225 x 310 mm	9,1 x 13,8 inch

# **Image transfer via Spirit Master in the thermal copier**

When transferring tattoo designs to the skin, please observe the locally applicable legal regulations!

## **Functionality**

A thermal copier is used to produce a copy of an original using colored wax. The colored wax is transferred from a coated carrier film onto a sheet of paper. A very powerful lamp generates IR heat radiation in the unit, melts the wax over the dark areas of the carbon based original, and transfers it by pressure to the sheet of paper above.

Since the heat is generated by absorption almost exclusively in the blackened areas of the original, a white sheet is the suitable background in any case.

To ensure that all the sheets used can be transported safely through TIMmy, they must be placed one on top of the other in the correct order and inserted into a "carrier".

This carrier is very important for trouble-free transport in the device. It also protects the glass tube and silicone roller from damage and contamination.

As soon as the carrier becomes dirty or deformed, it should be replaced.

## Copy process

To create a transferable copy you will need:

- A printed or drawn carbon based original on white paper.
- Spirit Master thermal copy paper.
- Carrier of sufficient size (Super Long are available).

The "Spirit Mater" is a ready-made unit consisting of a yellow backing paper, a wax-coated violet/blue-green film, a light brown release paper and the white cover sheet.



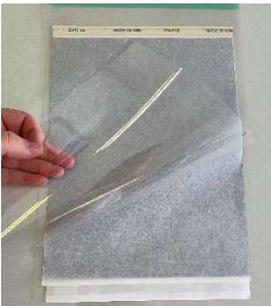
Take a new "Spirit Master". Place it on the table with the yellow paper facing down and lift off the top three papers.



Artwork is placed on the yellow sheet. The design, i.e. the printed side points upwards, towards the wax layer.  
Please note: an incorrectly inserted template results in no copy or a very weak copy. This is also reversed.



Remove the light brown release paper between the wax layer and the white cover sheet. This cover sheet bears a colored copy of the template on the inside after the successful copying process.



The finished unit of template and Spirit Mater is now placed in the carrier. The white cover sheet is on top!



Set a medium speed on the feed controller of the unit.



After the copy has been made, remove the carrier from the top of the device. Now carefully tear off the white cover sheet towards the top.

The copy can now be transferred to the skin at the desired location.

For this purpose, different transfer gels/liquids are used, ask your tattoo wholesaler for the version that matches the paper. Important: Remember to match paper and skin prep products.

**If the copies are too light/weak, the speed control dial must be set to a lower number. Try decreasing by 1 to test.**

**Where copies are too dark/ strong, the speed dial must be set to a higher number.**

# Artwork/ Template creation

Artwork/ the template for a thermal copy has very specific requirements. Unfortunately, not every template is suitable.

Our experience shows that it is precisely in this area that the most frequent sources of error lie, resulting in a faint/poor/ unusable or no copy at all.

The carbon content of the black ink is of decisive importance for the suitability of an original for thermocopying. However, this cannot be seen with the naked eye, which is why you have to rely on experience or your own tests.

- Aftermarket inkjet cartridges contain no carbon.

## Suitable templates are:

- B/W copies using only Genuine Epson Ink (test for suitability).
- B/W printout from a laser printer. (Generally, matte-looking originals are better than glossy ones).
- Certain types of pencils / calligraphy pens (Please try them out yourself).

## Unsuitable templates are:

- Aftermarket inkjet cartridges contain no carbon.
- B/W printout from a normal inkjet printer (inkjet with CMYK cartridges)
- Felt-tip pens, ballpoint pens or colored pencils
- Letterpress or newspaper printing (in this case a copy of the desired page can be made with a carbon toner).

## **What to do if .....**

**Question:**

When I want to make several copies in quick succession the copies get darker and darker?

**Response:**

It is very difficult to establish a general rule for this. However, experience has shown that the feed rate must be increased by 0.5 after each copy.

Thus, for example, the first copy is exposed at speed 5 and the second at 5.5.

**Question:**

The red drive roller in the device is dirty?

**Response:**

The thermal copier must always be operated with a suitable carrier. This protects the components in the device from the colored wax transferring off the spirit paper.

Question:

With my own carrier I do not get clean copies?

Response:

The temperature resistance of the carrier is important. Some film materials are not suitable, they absorb the IR, not letting it pass. Always use approved original carriers!

**Damage caused by the use of unsuitable carriers is not covered by the warranty.**

Question:

Some templates result in very different copies?

Response:

Always use the same printer to create the templates. If this is not possible, please adjust the feed rate accordingly.

Question:

After a copy, the device continues to run although the lamp is already off.

Response:

The device must cool down again after making one or more copies. (This can sometimes take a few minutes)