Thermopatch
an Avery Dennison Company

USER MANUAL

Y600 THERMO-SEAL™-JET

ATTENTION!
Anyone who will work with, maintain or repair this machine must take note of the contents of this manual.

EN **v1.1** - 11/24

Copyrights

Introduction

Dear user,

Welcome to the large group of Thermopatch users.
Your purchase has been surrounded with great care.

We are happy to ensure that you benefit from your Thermopatch product for as long as possible.
Thermopatch products are designed with extra attention to your convenience.
Should you discover any shortcoming or damage when you receive this product, please contact your Thermopatch supplier immediately.

The manual has been drawn up in accordance with standard NEN 5509 and therefore in accordance with the Machinery Directive 2006/42 / EC.

It is intended for all users of the machine, as well as those who install and maintain the Y-600 Thermo-Seal ™ Jet. The aim is to familiarize you with the operation, provide instructions for safe working and guidelines for periodic maintenance.

☛ ATTENTION!

Before starting work with the Y-600 Thermo-Seal ™ -Jet, make sure you are awareof the contents of this manual so that you can use the machine safely and optimally.

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Contents

1. General description

The **Y-600 Thermo-Seal ™** -Jet is a machine for temporary marking of clothing and other textiles. The machine works electrically and pneumatically, on compressed air.
The labels for temporary marking are printed, cut and pasted in a single operation on the article to be marked.
The Thermo-Seal ™ temporary marking tape is available in 11 different colors. After washing or dry cleaning, the labels can be removed from the marked article without leaving any adhesive residue.
A code is printed on a Thermopatch Thermo-Seal ™ marking tape, using a printing system with an inkjet cartridge.
Most clothing or textile items can be marked temporarily.
Sensitive fabrics can be labeled in an alternative way. For this, an extra long piece of marking tape can be printed, cut and glued together through the buttonhole, with the machine.
By entering codes by means of the keyboard, these can be printed on the marking tape.
By subsequently moving the press arm upwards, the pneumatically driven system will feed and stick on the printed label.
Time, temperature and other optional settings can be entered using the machine's keypad. The time and temperature, as well as other information, are visible on the LCD screen on the keyboard.

1.1 What did you receive?

The **Y-600 Thermo-Seal ™** -Jet is packed in a cardboard box with foam elements on both sides of the machine for protection during transport.
Various components are separately packed with the **Y-600 Thermo-Seal ™** -Jet.
This machine is supplied with ink cartridge.
It comes with the following items:

- **Y-600 Thermo-Seal™-Jet** machine with keyboard
- Power cord 230 volt #41969
- Tape cassette rack #47068
- Marking tape cassettes, 6 pcs. #47083
- One roll of white Thermo-Seal™ marking tape #THSL4635-01
- Air filter pressure regulator #47094
- Air tube #DH-6795
- Rubber sealing pad SPAY600-012
- Button Head Cap Allen screws, 2 pcs #21061-26-N
- Allen key, 4 mm #24085-14
- Ez-Off Cleaner Thermopatch SPADH-6873
- Ink cartridge INKY-600

If one of these items is missing from the shipment, please contact your Thermopatch supplier.

1.2 Warranty

Thermopatch refers to the warranty conditions and product liability as laid down in our general terms and conditions. These can be requested from your Thermopatch supplier.

2. Intended use

The **Y-600 Thermo-Seal ™ -Jet** is a machine for temporary marking of clothing and other textiles. The temporary marking of textile articles is accomplished without the use of harmful solvents.

WARNING!

Use other than described above can lead to dangerous situations and damage and thus falls to "improper use" and closes Thermopatch b.v. from any liability.

3. Assembly and installation

3.1 Installation

Take the **Y-600 Thermo-Seal ™ -Jet** out of the box and place the machine on a stable work table near a grounded power outlet.

3.2 Electrical connection

The Y-600 Thermo-Seal ™ -Jet is connected to the mains (230 V AC) with the supplied power cord.

1. The 230v machine version uses two 250V - 3.15 A slow fuses.
2. The 115v machine version requireS two 250V - 6.3 A slow fuses.

The left picture (1) shows the 230 V setting on the power entry. The image shows the Y-600 Thermo-Seal ™ -Jet as factory-set for use on a 230v mains supply, and the main switch is in the “OFF” position.
The right picture (2) shows the fuse setting for 115 V.

1

2

Changing the input voltage setting:

3. Switch off the machine with the ON / OFF button
4. Unplug the power cord and unplug the power cord from the receptacle on the machine
5. Record the setting of the current input voltage setting. Photo 1 shows the setting at 250 V. Photo 2 shows the setting at 115 V.
6. Carefully open the cover of the fuse holder on the net entrance by means of the tab on the right side of the net entrance.
7. Carefully remove the fuse holder from the mains entrance.
8. Remove the fuses from the holder and replace them with fuses for the desired voltage.
9. Use for 115 Volt, P / N 20015-32, 250 VAC 6.3 AMP; use for 230 Volts, use P / N 20015-26, 250 VAC 3.15 AMP.
10. Turn the fuse holder so that the desired voltage is visible in the window of the mains entrance, see also pictures 1 and 2.
11. Carefully slide the fuse holder back into the mains entrance so that the desired voltage setting is visible.
12. Close the fuse holder
13. Connect the correct type of power cord to the machine
14. The machine is ready for use at the desired setting.

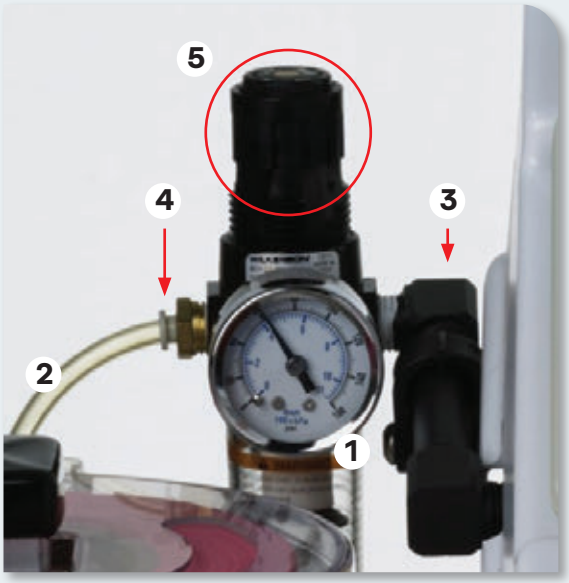
For further operating instructions, please refer to this manual.

ATTENTION!

230v machines uses two 250V - 3.15 Ampere slow fuses
115V machines uses two 250V - 6.3 Ampere slow fuses.

3.3 Pneumatic connection

The **Y-600 Thermo-Seal ™ -Jet** must also be supplied with dry, clean air to operate the air cylinders of the press arm and the dynamic blade. The minimum pressure required
entering the **Y-600 Thermo-Seal ™ -Jet** must be at least 5 Bar.
However, this is not the final setting of the air filter pressure regulator!
To determine if the air pressure is set correctly, check the gauge (1) on the front of the air filter where the pressure is indicated in PSI (pressure per square inch) and bar (kg per square centimeter).
Connect a dry, clean air line to the air filter pressure regulator.
Screw the air filter pressure regulator onto the threaded elbow (3) so that the gauge can be read.
Connect the air tubing (2) by pushing it firmly into the connector (4). Check that it is tight and that the meter works.
To adjust the air pressure, pull up the adjustment knob (5) on top of the airfilter pressure regulator, to release it.
Gently turn the knob clockwise to increase pressure or counterclockwise to decrease pressure until the pointer on the gauge reads 60 PSI or 4 Bar.
Then press the adjustment knob (5) down again to lock it.



ATTENTION!

This is not the final pressure setting for the air filter and pressure regulator on this machine.

The maximum allowable pressure is 100 PSI or 7 Bar. The machine is factory-made set to 60 PSI or 4 Bar.

Oil and water in the air supply will damage valves and cylinders.Damage caused by water or oil is not covered by any warranty.

3.4 Assembling the tape cassette rack

The **Y-600 Thermo-Seal ™ -Jet** comes complete with a tape cassette rack and 6 tape cassettes.
The rack can hold a maximum of 8 tape cassettes.
For mounting you need a 4 mm Allen key, which is included.
The tape cassette rack should be mounted on the left side of the Y-600 Thermo-Seal ™- Jet with the two long M6 x 1.0 x 40mm screws included.
Insert the screws through the holes in the tape cassette rack, in the machine chassis. Use the Allen wrench to tighten the screws.Slide the tape cassettes (C) over the square holder (A) of the tape cassette rack.
The correct position of the cassette is with the hinge pointing towards the rear and the opening towards the front of the machine (B).

Mount the tape cassette rack with 2 long M6 x 1.0 x 40 mm screws.

4. Operating instruction

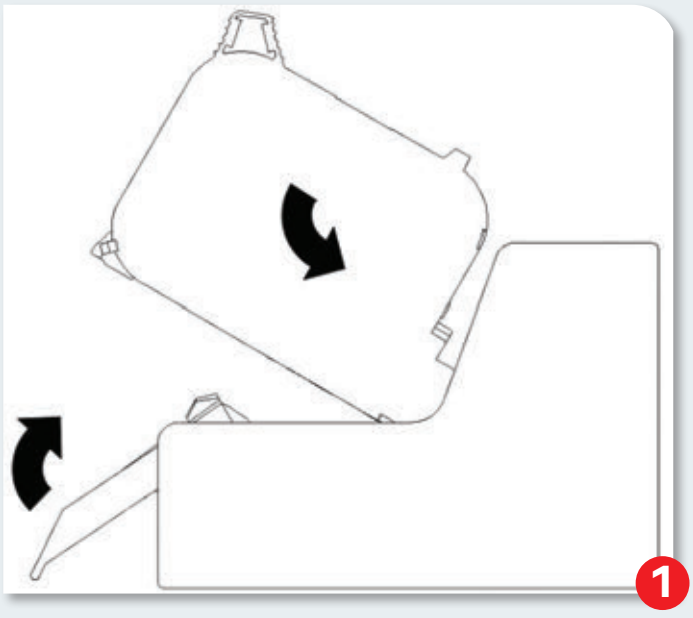
4.1 Installing and maintaining the ink cartridge

The **Y-600 Thermo-Seal ™ Jet** is supplied with ink cartridge. The ink cartridge is necessary to be able to print the desired information on the Thermo-Seal marking tape.

> **ATTENTION!**
>
> *Use the ink cartridge as soon as possible after removing the protective film or removed the cartridge clip.*

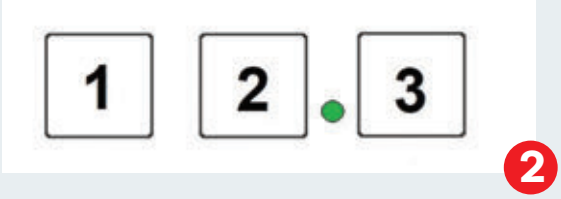
Placing the ink cartridge

Remove the protective film or cartridge clip and place the ink cartridge in the holder.
Before inserting the cartridge, wipe the printhead once with a lint-free cloth.
Set the ink cartridge lever to the unlocked position.
Insert the inkjet cartridge diagonally into the printhead holder (Figure 1).



1. Lock the lever for the ink cartridge.

The correct position of the ink cartridge is indicated by the ink LED.
The LED lights green after inserting the ink cartridge.
Position of this LED is between buttons 2 and 3.



To remove the inkjet cartridge

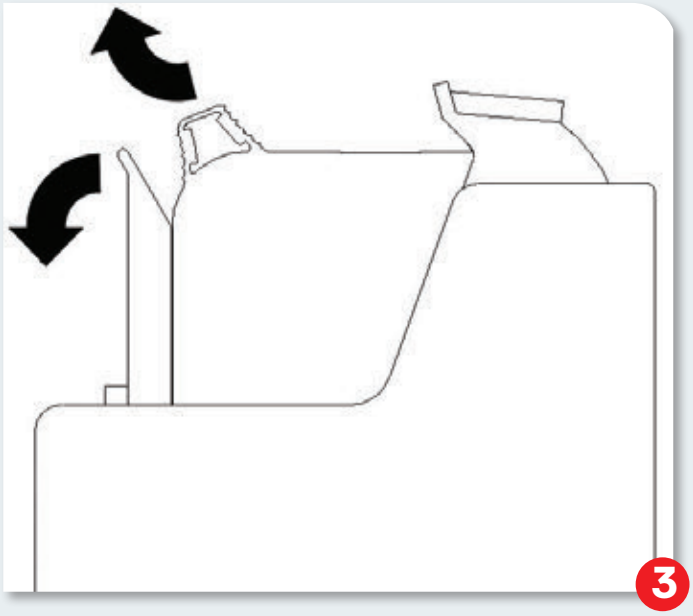
☛ ATTENTION!

Risk of damage from improper use! An electronic error can occur if the ink cartridge is simultaneously removed during the printing process. This can result in a defective cartidge or control unit. Therefore:Only replace or remove the ink cartridge when the printing process has stopped.

Removing the inkjet cartridge in 2 steps:

1. Unlock the lever for the ink cartridge.
2. Remove the ink cartridge from the printhead holder. (Figure 3)

Ink cartridges storage and maintenance



☛ ATTENTION!

New sealed ink cartridges have a shelf life of 1 year. The expiration date is printed on the cartridge.

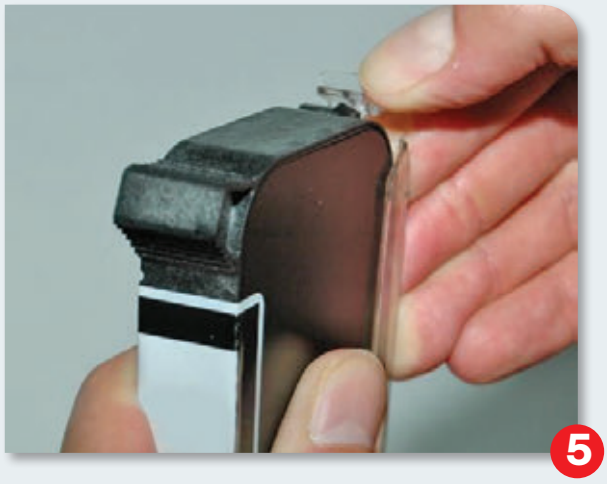
The shelf life is 1 year and the expiration date is printed on the cartridge.
Storage shorter than 1 day:
Leave the ink cartridges in the printhead holder and, if necessary, wipe the cartridge clean before restarting.
See for instructions: **Manual flushing of the ink nozzles, page 12**

Storage longer than 1 day:
Insert the ink cartridge into the cartridge clip.
If ink cartridges are not to be used for an extended period of time, they must be stored in the cartridge clip to prevent the print head nozzles from drying out and becoming clogged. This in order to be able to use the life of the cartridge for as long as possible. To do this, the cartridge must be removed from the printhead holder. See for instructions: **Placing the ink cartridge in the cartridge clip, page 11**

Placing the ink cartridge in the cartridge clip

Place the ink cartridge with the printhead into the cartridge clip on the silicone part of the clip, and then push the cartridge clip over the cartridge until it locks.
Removing the ink cartridge:

Gently lift the latch until the cartridge clip releases from the ink cartridge (see Figure 4)



Pull the ink cartridge up out of the cartridge clip (Figure 5)

Manual flushing of the ink nozzles

ATTENTION!

Beware of contamination of the tape guide by spraying ink! During flushing, ink is sent from the nozzles with some force. Therefore: Remove the front tape guide from the machine so that the print head is freely visible. Hold a cloth over the print head of the ink cartridge.

After extended periods without printing, it may be necessary to rinse the ink cartridge again to open the clogged nozzles.
During flushing, all openings of the ink cartridge are opened to spray ink.
Flushing takes up to 2 seconds or as long as the button is held down.
Necessary supplies:
Absorbent cloth or absorbent paper

Instructie
Rinse the nozzles as follows:
1. Hold an absorbent cloth over the front of the print head of the ink cartridge.
2. Press the [1] button and the [3] button on the top of the controller simultaneously.
3. Gently wipe the printhead with a lint-free cloth to remove any excess ink.

Cleaning the ink cartridge:
- Has to be performed by an instructed person.
- Has to be performed when the print quality deteriorates during printing or after a longer periode of inactivity.

Print quality may deteriorate during printing due to dust and ink vapor.
In this case, wipe the print head of the cartridge with a damp, lint-free cloth. The water in the damp cloth dissolves the ink residues and cleans the nozzles and the ink channels.
Necessary supplies:
- Absorbing lint free piece of cloth.

Instruction for manually flushing the ink nozzles

☛ ATTENTION!

Beware of damage from improper cleaning!

Improper cleaning can scratch the nozzles of the ink cartridges, blurring prints because the scratches around the nozzles can distort the ink.

Therefore:

- Use only lint-free and absorbent cloths to clean the cartridges.

- If necessary, use the IPA cleaning wipes.

- Wipe slowly without putting too much pressure on the head.

Clean the printhead as follows:

1. Remove the print cartridge from the printhead holder. See remove the ink cartridge
2. Hold the ink cartridge with the print head side down.
3. Slowly wipe the print head in the direction of the arrow, using a damp, lint-free cloth. Do not shake the ink cartridge!
4. Replace the ink cartridge into the printhead holder.

See for instructions: **Installing the Ink Cartridge, page 9**

4.2 Inserting the Thermo-Seal ™ temporary marking tape

1. Set the switch on the back of the power supply to On (I).
2. Place the roll of marking tape in a tape cassette and place it on the tape cassette rack.
3. Pull a piece of the marking tape about 30 cm from the cassette.
4. Insert the the marking tape into the entrance of the tape guide, adhesive side facing forward.
5. Continue feeding the tape through the tape guide until it comes to a stop.
6. Keep the “Load Tape” F1 button pressed and the tape will move forward and become visible to the heating element. Raising the press arm will complete loading of the marking tape. This action cuts the marking tape and the machine is ready for use.

Spliced rolls

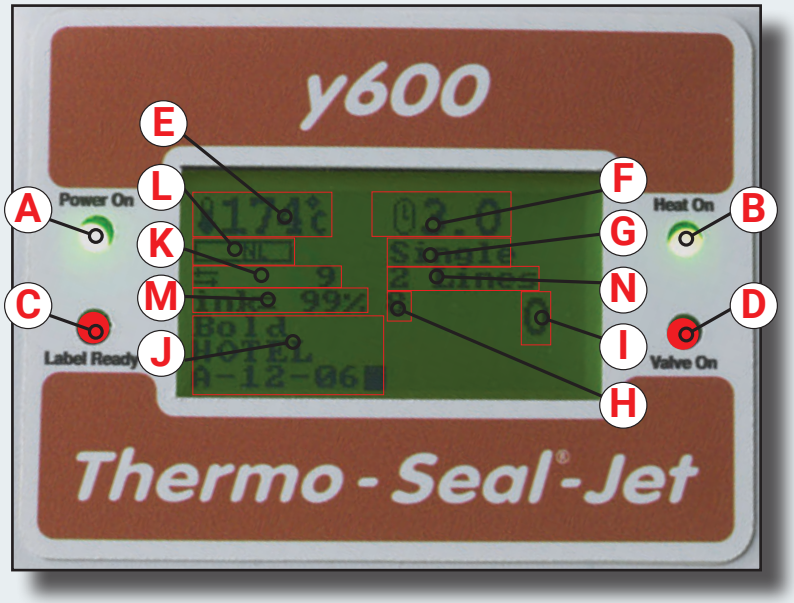
The splices in a roll of Thermo-Seal ™ marking tape are made with silver tape. When these are found, cut the splice from the tape before it enters the tape guide and gets stuck.
After that, reload the tape as explained.

4.3 Operating the machine

Before starting working with the Y-600 Thermo-Seal ™ -Jet machine, make sure that all installation instructions have been followed (see ch. 7. Assembly and Installation).
The following steps must be completed:

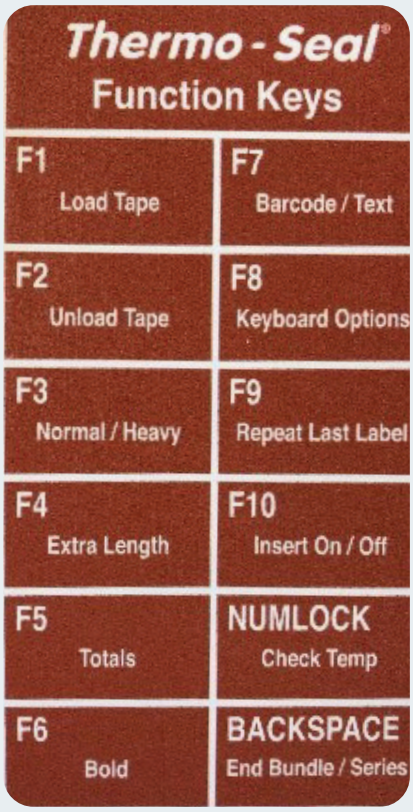
- You have inserted the Thermo-Seal marking tape into the tape guide
- The green LED “Power ON” is lit on the LCD panel.
- The green LED “Heat ON” is lit on the LCD panel.
- You have determined that there is no dirt or water in the air supply.
- You have determined that there is no leakage in the air supply.
- You have set the pressure to 4 bar (60 psi)
- The inkjet cartridge is clean and correctly installed

4.4 The operating panel



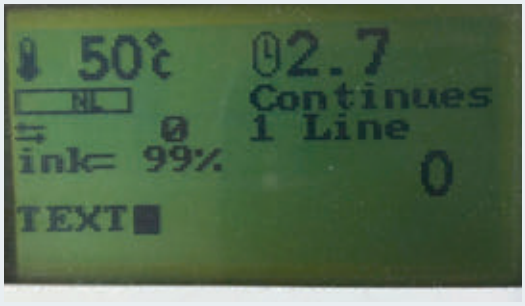
Familiarize yourself with the features, messages and icons that may appear on the LCD panel before you start working with the Y-600 Thermo-Seal ™ -Jet.
The above image shows the machine ready to use.

A. The lit green LED Power On indicates that the power is on.
B. The glowing, green LED Heat On indicates that the heating element is on and is heating up to the working temperature. If the LED flashes, this indicates that the working temperature has been reached.
C. The lit, red LED Label Ready indicates that the label is ready to be applied.
D. The burning red LED Valve On indicates that the machine is ready for sticking.
E. Working temperature icon: the temperature is displayed in Celsius or Fahrenheit.
F. Press time: the set time is 2.7 seconds. Optionally, the time can be set to 4.8 seconds in case of thick, damp or dirty things.
G. Working setting: single label or continuous.
H. Total Counter: Displays the total number of printed labels since commissioning. It cannot be reset.
I. Bundle quantity: indicates how many labels have been pasted per bundle. The counter counts down from the number entered in the Bundle Quantity row by the machine user.
J. Text entry line: 5-12 alphanumeric characters can be entered to be printed on a label. Choose NORMAL or HEAVY (BOLD font) here.
K. Daily production counter: keeps track of the number of pasted labels during production. When the machine is turned off, the counter is reset when it is turned on again.
L. Label length: NL stands for Normal Length and EL stands for Extra Length.
M. Available ink level in ink cartridge
N. Number of lines set: set 1 or 2 lines of text here.

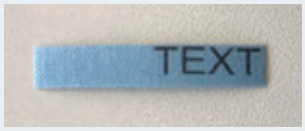


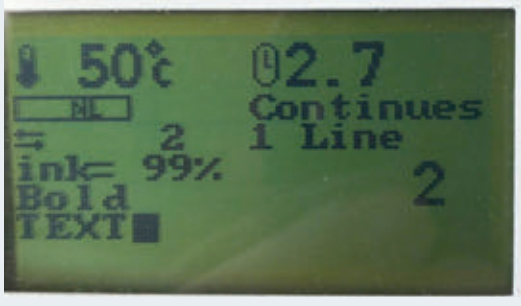
KEY	DISPLAY	DESCRIPTION
F1	Load tape	Loads the Thermo-Seal (TM) marking tape
F2	Unload tape	Unloads the Thermo-Seal (TM) marking tape
F3	Normal / Heavy	Switches between "Normal" and "Heavy" press time
F4	Extra Length	Switches between "Normal" and "Extra" length
F5	Tools	Toggles between displaying "TOTALS" ON/OFF
F6	Bold	Prints the next label thicker
F7	Barcode / Text	Text, 1 line; Text, 2 lines; Barcodes (in two versions)
F8	Keyboard options	Activates the settings menu Activates the specials menu Exits the menus and returns to the main screen
F9	Repeat last label	Repeats the text from the previous label
F10	Insert On / Off	Displays the last character of the text line
NUMLOCK	Check Temp	Toggles between the set temperature and the main screen
BACKSPACE	End Bundle / Series	Closes bundles or series; the screen is ready for new data input

When the machine is ready for use, the display looks like below.

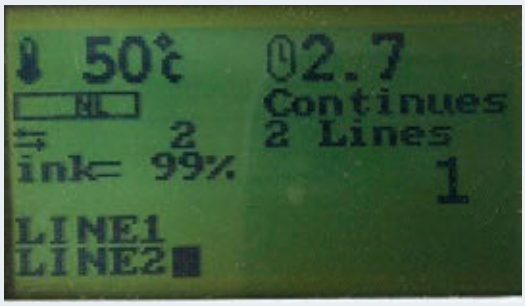


The ink level of the inkjet cartridge is shown and the single line mode is active.

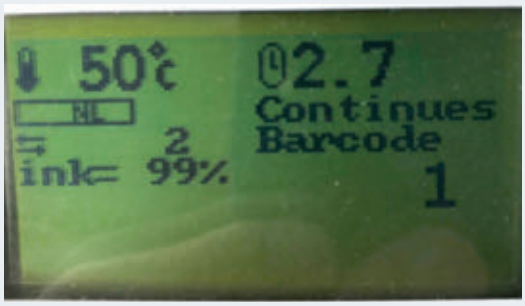




Activating the BOLD function with F6 changes the text as follows:



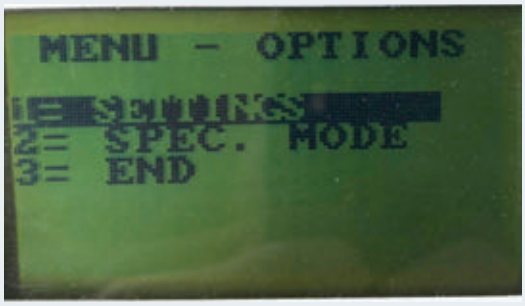
With F7 the 2-line option is chosen and here too you can print with NORMAL or BOLD characters.



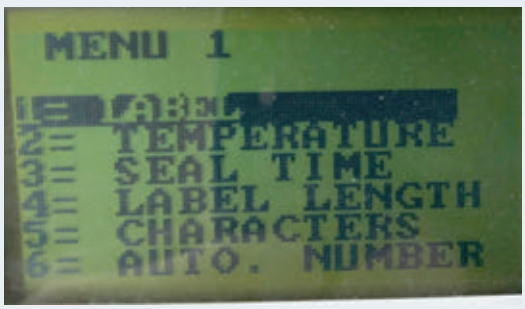
The barcode option is selected with F7.

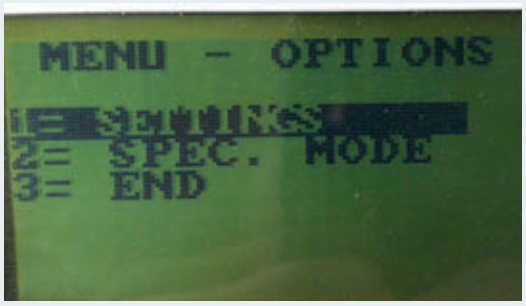
Example: label code 2 of 5

Het instellingen menu

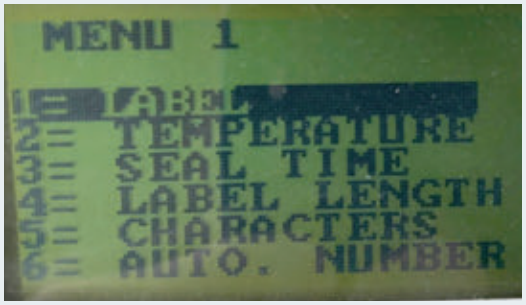


By pressing F8 you enter the settings menu.
There we select the 1st option “SETTINGS”, and then again the 1st option “LABEL”.





Then the label function can be made and we choose option 2 “BARCODE”.
Here you can choose from 2 barcodes, which can then be printed in 2 different versions.
Choose a full barcode or a barcode with barcode text underneath.



EAN-8

EAN-8+

code 2 of 5

code 2 of 5+

Menu Option #1 Settings menu				
Menu	**Display**	**Description**	**Modification**	**Standard**
1 = Label	1 = Text	Text mode	Choose the desired menu number	
	2 = Barcode	Barcode type		
	Sub Menu		**Sub Menu**	
	1 = EAN8 2 = EAN-8+ 3 = Code 2 of 5 4 = Code 2 of 5+ *5 = QR Code* * *6 = Data Matrix* *	* = *For Y600 1/2 Inch model only*	Choose the desired menu number	
2= Temperature	Temperature	Change temperature	↕ arrow key, with 1 °C/°F	176°C / 349 °F
			↔arrow key, with 10 °C/°F	
3 = Heat sealing time	1 = Normal	Change the normal heat sealing time	↕ arrow key, with 0.1 second	2.7 sec
	2 = Extended	Extended heat sealing time (heavy)	↕ Left / Right arrow key, with 1.0 second	4.8 sec
	3 = for button hole label	Second heat sealing time (long button hole label)	↕ arrow key On/OFF ↔arrow key On/OFF	ON
4 = Label length	1 = Norm. Label	Normal label	↕ arrow key, with 1 unit ↔arrow key, with 10 units	10 100
	2 = EL Label	Extra long label		
5 = Characters	Characters	Change the number of characters or numbers	↕ arrow key, 1 character ↔ arrow key, 10 characters	6
	Numbers			
6 = Automatic numbering	Autonumbering OFF	Switches Autonumbering On or OFF	↕ or ↔arrow keys switch Autonumbering ON or OFF	
7 = Language	Languages: 1 = Deutsch 2 = English 3 = Espagnol 4 = Français 5 = Nederlands	Choose from operating languages	with the ↕ arrow key you can circulate the languages menu. For selection press Enter.	English
8 = Function mode	1 = Label Number 2 = Label Single 3 = Continued	Operating settings	Choose the desired menu number	1
	Sub Menu		**Sub Menu**	
	1 = Invoice before 2 = Invoice after 3 = No invoice	Use of invoice	Choose the desired menu number	3
9 = Serial Port **	Serial communication OFF	Function setting serial port	choose the desired setting with the arrow key ↕	OFF
	**** For machines with a communications option only**			

Menu Option #2 Special Mode				
Menu	**Display**	**Description**	**Setting**	**Standard**
	Type password	*The password is required to make changes to the settings.*	*Type the password and press the ENTER key*	*Password: Y600TP*
1	*Factory settings SURE? Y - N*	*Make changes in the factory settings*	*Press Y for YES, N for No*	*N*
2	*Password ON*	*Switches password ON or OFF*	*↕ Press for ON or OFF*	*ON*
3	*Modify password? Sure? Y - N*	*Change and set the new password*	*Press Enter Y for YES and N for NO Type the current password*	*Default Password: Y600TP*
	Sub Displays			
	Change the password again *Accepted*	*Request for new password* *Confirm the new password* *The new password is set*	*Enter new password* *Enter the password again*	
4	*Temperature Offset*	*Change the setting of the offset temperature*	*↕ key sets it per 1 °C or 1 °F ↔ key sets it per 10 °C or 10 °F*	*0*
5	*Left margin 10*	*Sets left margin label length*	*↕ key sets it per per 1 unit ↔key sets it per per 10 units*	*10*
6	*4635 (1/4) 8632 (1/2)*	*Switch between 1/4 inch and 1/2 inch tape width*	*Use the ↕ key to choose the right tape size for the mounted tape guide*	*4635 (1/4)*
7	*Boot Mode*	*Update software*	*Special instructions*	

4.5 Customizing the settings of the Y-600 Thermo-Seal™-Jet

The **Y-600 Thermo-Seal ™ -Jet** machine software has a number of factory settings such as: Pressing Temperature (Sealing Temperature), Display Language Setting (Display Language), the Marking Tape Length (Label Marking Tape Length) and the password for the Special Settings Mode.

The software of the machine can be adapted to your own needs. The factory settings can be changed in Special Settings Mode via the Keyboard Options F8 menu.
The standard settings of the Y-600 Thermo-Seal ™ -Jet are sufficient for the daily processing of clothing and other textiles.

However, hot keys, Thermo-Seal ™ Function Keys are available so that changes can be made to these default settings. These shortcuts allow you to quickly respond to the exceptions encountered, without having to change the factory settings over and over again.

4.6 Temporary marking

Temporary, removable marking is used in laundries, hospitals, hotels, textile suppliers, textile caretakers and various other industries.
Almost all clothing or other textiles can be marked by direct or indirect marking. Due to the wide variety of fabrics and textiles, it is important to follow the instructions below:
The standard operating temperature of the Y-600 Thermo-Seal ™ -Jet is set at 176 °C (349 °F).
Materials that are sensitive to heat cannot be marked directly. Clothing care labels that indicate that they can only be washed or ironed at a low temperature can also mean that the colors are sensitive to high temperatures.
Also, the finish of the fabric may cause a change in color due to exposure to high temperatures.
If you are not sure about the sensitivity of the fabric or textile, mark it indirectly.
If this is not possible, wash the fabric or textile in a washing net that is marked.
Be careful when temporarily marking clothing that is designated as suitable for dry cleaning only. This qualification generally means that the textile or clothing is sensitive to heat, pressure and detergents.

4.6.1 Sealing label tags and organisation

There are eleven different colors of Label Marking Tape for organizing and sorting purposes. The colored tapes can be used for both the entire operations for a customer and for the different lots.

Bundle lot systeem

1. A01-05	2. 3A01-05
A= Week number 01= Lot number in that week 05= Customer bundle nr.	3= Number of pieces in the order A= Week number 01= Lot number in that week 05= Customer bundle nr.

One of the more popular systems is the Bundle Lot System. Garments from multiple customers or sources can be mixed while washing but easily sorted.

Typical labels for a Bundle lot system are set up as follows:
The tape color is changed at the end of each lot. The lot number is advanced by 1 and the bundle number is reset to 1.
The colors are always used in the same sequence.

Day lot systeem

1. M 12345 or 1-12345	2. 01M2345	3. 03M2345
M or 1 = Monday or day 1 12345 = Invoice Number 2345 = Invoice Number	01 = Week Number M = The day 2345 = Invoice Number	03 = Number of pieces in M = The day

On the Day Lot System, one color is designated for all articles received on a specific day of the week. All laundry is processed for a 1 or 2 day turnaround and the entire lot is sorted together. Items that get misplaced or out of lot are easily identified by their color.

Route location system

1. 24-1234	2. 3-24-1234
24 = Location Number 1234 = Invoice or Bundle Number	3= Number of pieces in the order The rest is the same as left.

This system uses the color of the tag to designate the route or the store location. In many cases, items are processed, folded, and sent to the store location for sorting by counter personnel. The number of locations is limited to the number of colors available.

Invoice number system

1. 3-24-12345	2. 3M1234
3 = Number of pieces 24 = Location 12345 = Invoicenumber	3= Number of pieces M = Day of Delivery 1234 = Invoice Number

The number on the tag is the invoice number. It is often accompanied by the number of pieces, the day of delivery, the location or lot number. Tag color is usually changed after a set number of bundles or at the end of each day.

Hotel room number system

1. 20-1234	2. 03-1235
20 = date received 1234 = Room Number	3= Number of pieces in order 1235 = Room Number

This system uses the room number and the date the item is received on the tag. The color changes each day so that items that are short are easily indentified. Occasionally the number of pieces in the order is listed as the first number.

Nursing home / elderly home

1. B 453	2. 1435
B= Building Designation 435 = Room Number	B= Building Designation 435 = Room Number

Today, most Nursing Homes use a permanent label to identify the resident's garments. When a temporary label is used, the tag usually is used to denote location. The numbering usually denotes the room or apartment location.

4.6.2 Label tag marking

Normal label tag marking
Label Tags are sealed directly onto the garment or textile item. Placement of the Label Tag should be done in the correct position for the garment or textile item.

Thick, Dirty or Damp Garments and Textile Items
Label Tags are sealed upon thick, dirty, or damp garments and textile items in the same manner as described in the previous section, Normal Label Tag Marking. However, thick, dirty, or damp garments and textile items require more time to securely adhere the Label Tag to the garment or textile item. Therefore, a Sealing Time of 4.8 seconds "Heavy" is used to correctly seal the Label Tag to the garment or textile item. The machine operator can change from Normal seal time to Heavy seal time by using the F3 Thermo-Seal function key.

Sensitive Garments or Textile Items
Label Tags that cannot be sealed directly on sensitive garments or textile items can be sealed indirectly using the "Extra Length" option. The Extra Length option can be activated by using the F4 function function key. When the Extra Length option is activated, the display will show "EL". The Extra Length tag will have the desired code printed onto the label tag. The Extra Length label tag can be made longer by pressing the F4 function key when the printed label is positioned in front of the heater element and ready to be sealed.Raise the press arm to cut the tag. Pass the long label tag through the top buttonhole of the garment or opening in the textile item and seal these together.

The Use of Flags on Sensitive Garments
There is an alternative indirect Label Tag marking method. The alternative method uses "flags." The Label Tag with desired code is printed, cut, and sealed onto the flag. The flag is then fastened to a button on the garment, in a manner in which the flag cannot come loose.

Interrupting the Sealing Cycle
At any point in the process of printing, cutting, or sealing, the machine operator can interrupt the Sealing Cycle. Depressing the Esc key will exit the process cycle allowing the machine operator to initiate any necessary changes or activation of sub-routes.

ATTENTION!

Thermopatch cannot be held liable for any damage to clothing and textile items caused by the use of this machine.

To obtain proper fastening, ends of the extra long label should be held parallel to each other by pressing them together on the garment.

WARNING!

Make sure that your fingers do not come into contact with the heating element.

5. Overview of safety measures and warnings

5.1 Safety

In normal use of the Y-600 Thermo-Seal ™ -Jet, virtually nothing can go wrong.
Nevertheless, here we provide a number of instructions with which you can keep existing risks to a minimum.

1. Always turn off the power (unplug the power cord) when performing minor maintenance or cleaning the machine.
2. Make sure that there is sufficient space around the machine. Cords and connections must not be pinched. Although the heat radiation from the press is small, there must be sufficient space for cooling.
3. Avoid contact with the press arm and heating element.

Warning symbols

The following warning symbols are affixed to the **Y-600 Thermo-Seal ™ Jet:**

WARNING!

HOT SURFACE

ELECTRIC TENSION

A. Unplug the power cord before performing maintenance

B. Only use fuses recommended by Thermopatch.

☛ ATTENTION!

Before starting work with the Y-600 Thermo-Seal ™ -Jet, make sure you are aware of the contents of this manual so that you can use the machine safely and optimally.

Always turn off the power (unplug the power cord) when performing minor maintenance or cleaning the machine.

Provide sufficient space around the machine. Cables and connections must not get pinched. Although the heat radiation from the press is small, there must be sufficient space for cooling.

Avoid contact with the heating element

Pull the fabrics tight around the sealing pad and ensure that your hands are away from the sealing pad when operating the machine.

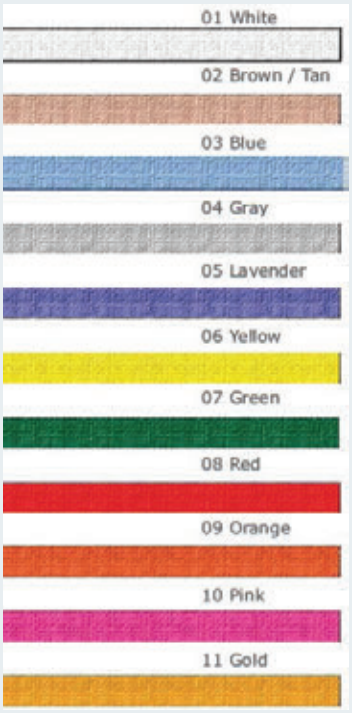
6. Technical specifications

6.1 Specifications:

Power	175 Watt
Power supply	230 Volt, 50/60 Hz
Temperature	176 ° C
Machine height	389 mm
Machine width	556.5 mm
Machine depth (incl. connections)	432.5 mm
Net weight	18.5 kg
Press pad, size	14.3 x 34.7 mm
Heat element, format	35 x 80 mm
Fuses	3.15 A slow [5 x 20mm]

Supplies:

1/4" wide:	**1/2" wide:**
THSL4635-01 White	THSL8635-01 White
THSL4635-02 Tan	THSL8635-02 Tan
THSL4635-03 Blue	THSL8635-03 Blue
THSL4635-04 Gray	THSL8635-04 Gray
THSL4635-05 Lavender	THSL8635-05 Lavender
THSL4635-07 Yellow	THSL8635-07 Yellow
THSL4635-08 Green	THSL8635-08 Green
THSL4635-09 Red	THSL8635-09 Red
THSL4635-11 Orange	THSL8635-11 Orange
THSL4635-13 Pink	THSL8635-13 Pink
THSL4635-14 Gold	THSL8635-14 Gold



Inkjet cartridge: INKY-600

7. Transport and storage

7.1 Transport

Upon receipt, your Y-600 Thermo-Seal ™ -Jet machine is packed in a cardboard shipment container with laminated foam protection cradles for protection of your machine during shipment. If you have to return the machine for servicing at a later time, it is recommended to pack it in a similar way.
Please let the machine cool down before packing the machine in the shipment container.

7.2 Storage

When the machine needs to be stored, Thermopatch advises to use the original packaging. The machine should be stored on a pallet, off the floor, in dry conditions.

8. Maintenance instructions

8.1 Maintenance

Before beginning any maintenance on your Y-600 Thermo-Seal ™ -Jet machine, finish any process cycles that may be started. After the process cycles have been completed, maintenance upon the machine may commence.
Maintaining a clean machine will extend the service life of the machine. The following is the recommended cleaning schedule for various parts of the machine.

CAUTION!

Before starting maintenance, disconnect the air supply from the air filter pressure regulator and unplug the power cord.

Daily cleaning & Maintenance

To get the best performance from your machine,the following parts must be cleaned daily:
- Heat shield: clean it daily as indicated on page 28 “Heater shield”.
- Rubber sealing pad.
- Tape guide: clean them according to the instructions on page 29 “tape guide”.

Weekly cleaning & Maintenance

To get the best performance from your machine, the following parts should be cleaned weekly:
- Top cover and LCD panel: remove dust and lint.
- Inside of the machine: remove dust and lint.

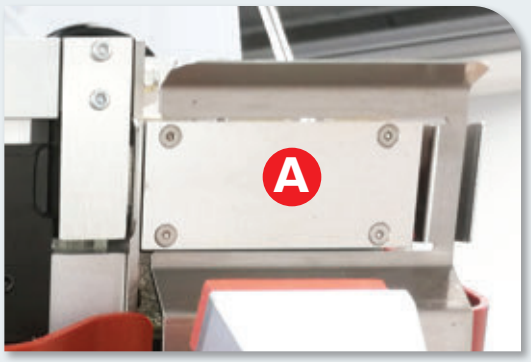
Semi-annual cleaning & Maintenance

To get the best performance from your machine, the following parts should be cleaned at least every six months (6 months):

- The electronics compartment: remove the covers left and right for access.
- Heat shield: inspect, clean or replace.
- Rubber sealing pad: inspect, clean or replace.
- External teflon cover of the tape guide: inspect and clean or replace.

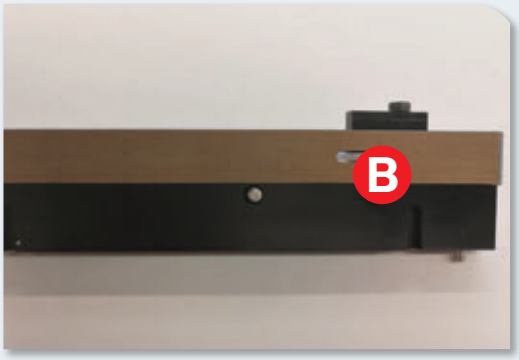
Heater Shield

Clean the heat shield (A) several times a day.
A heater shield that is no longer smooth should be replaced to prevent ink residue from accumulating; this can lead to poor print quality of the label.
Accumulated ink or dirt on the heat shield can also have an insulating effect that can lead to too low a heat sealing temperature, which can negatively affect the adhesion of the labels.
This is the most common cause of the loss of labels in washing and cleaning processes.
Use the supplied cleaning paste “Ez-Off” (B) for cleaning the heater shield. This item can be ordered via Thermopatch or your representative under item number SPADH-6873.
Cleaning method with “Ez-Off”:
To clean the heat shield, put a little paste on a clean, dry cloth and clean the heat shield while it is still warm, but not hot enough to burn you.



Tape guide

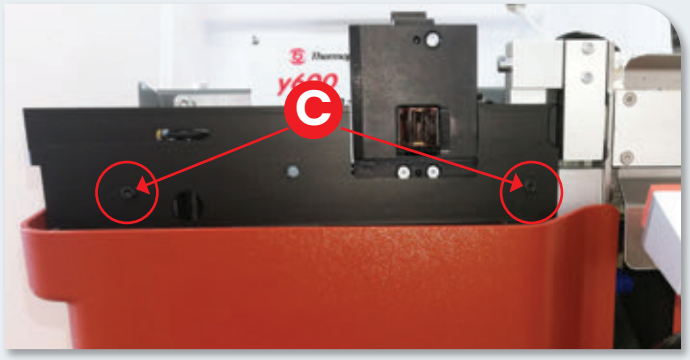
The tape guide (A) in the **Y-600 Thermo-Seal ™ -Jet** is accessible from the front of the machine, under the hinged top cover.
Open the machine, open up the tape guide, by removing the front cover and wipe both surfaces (A + B) with a clean, dry cloth.



Replacing the tape guide “O” ring

The “O” ring transports the marking tape through the tape guide.
This part will wear out through use and its lifespan depends on the use of the machine.
Turn off the machine and unplug the power cord before opening the top cover of the machine to access the tape guide “O” ring (D). The left image shows the machine open with the outer part of the tape guide removed.

1. Loosen (do not remove!) The two Allen (C) screws that hold the inner part of the tape guide in place.
2. Then tilt it forward. Remove the “O” ring by sliding it upwards over the transport spindle.
3. Install the new “O” ring over the same spindle by sliding it down until it slides into the groove provided.
4. Once the new “O” ring is fitted, insert a 0.4mm feeler gauge between the inner tape guide and the chassis on either side.
5. Tighten the Allen screws and reassemble the outer tape guide.



9. Technical annexes

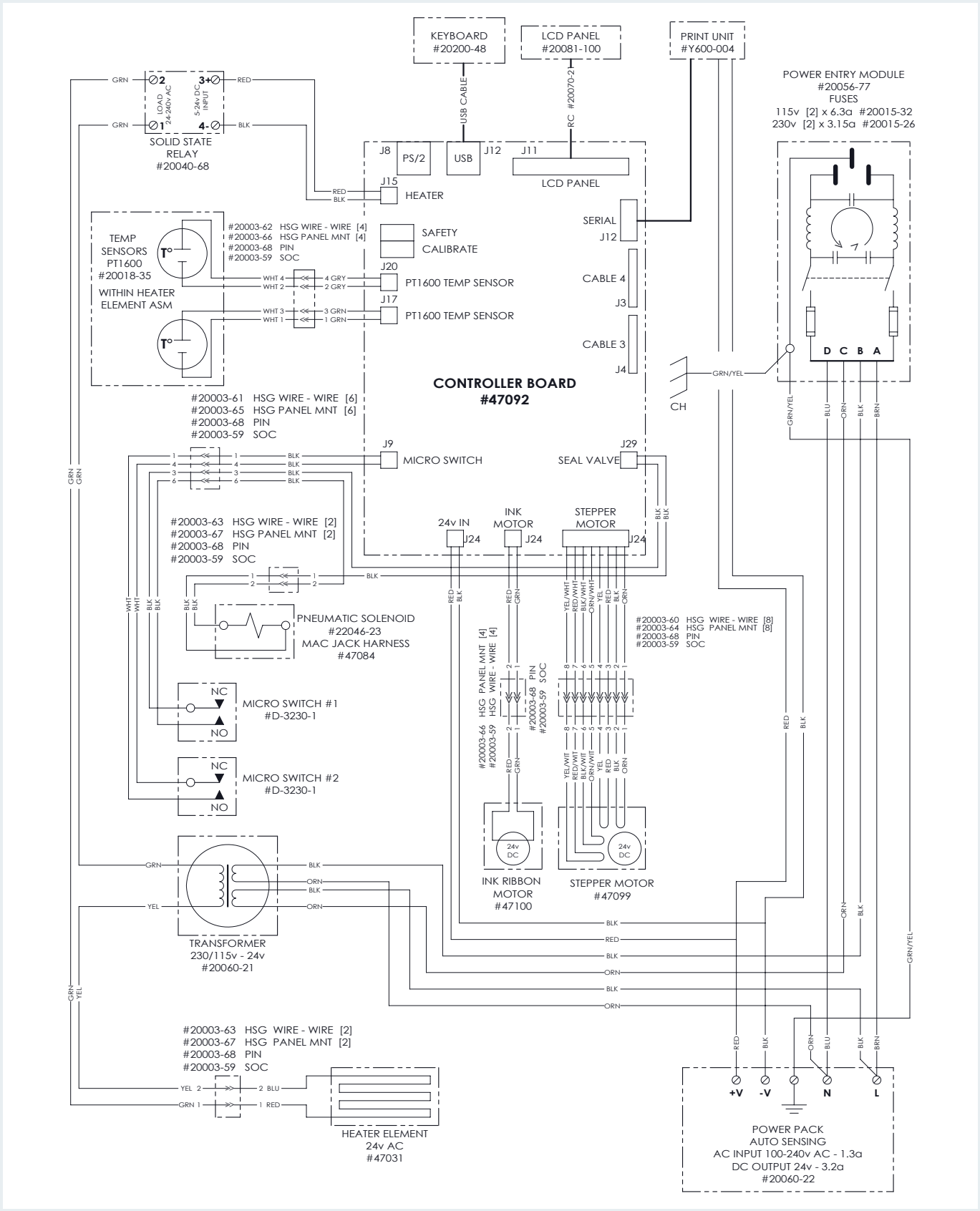
9.1 Replacementparts and diagrams

On the following pages you can find the regular replacement parts and technical diagrams of **Thermo-Seal ™ -Jet** machine.

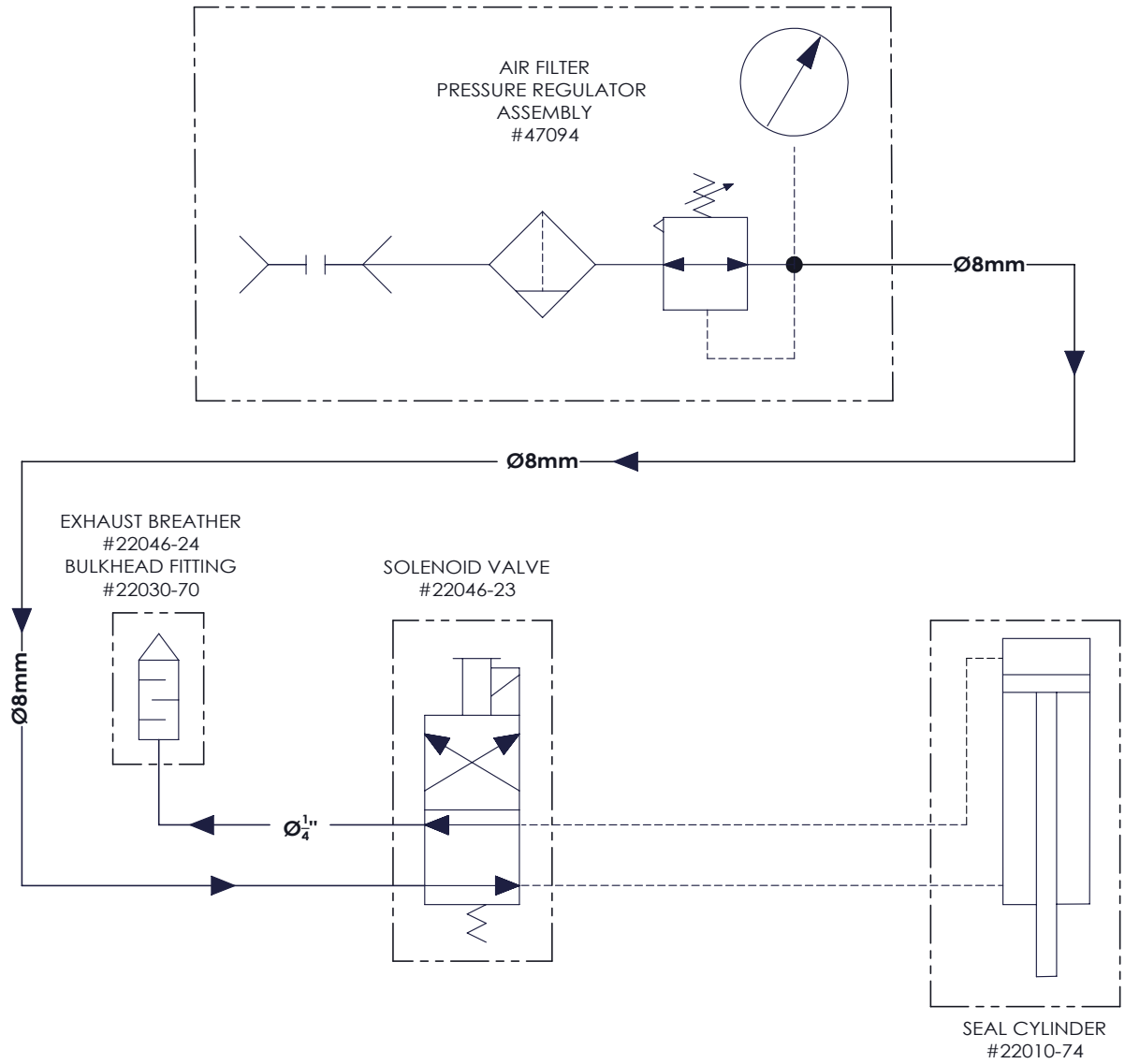
9.1.1 Parts to be replaced regularly:

• Y-600 sealing platen, rubber	SPAY600-012
• O-ring for tape guide	SPADH-24089-06
• Teflon for tape guide	SPADH-47108
• Inkjet cartridge	INKY-600
• Ez-Off cleaning paste	SPADH-6873

9.1.2 Schéma électrique



9.1.3 Diagramme pneumatique



PNEUMATIC SCHEMATIC,
Y600 230v & 115v
MACHINES

47122
REV Y600

10. Faults

Check that all settings and installation are correct before referring to the following information. Some repairs require support from a technical service.

Fault	Possible cause	Solution
Machine does not work	• Not plugged into wall outlet • There is no voltage at the socket • The power supply fuses have blown	• Check connection • Check the outlet • Check fuses in Power Entry Module
The air pressure fluctuates	• Leak in air supply • Dirt or water in the air supply, pressure regulator, or solenoid valve	• Repair or replace • disassemble and clean
The machine does not press	• Too little air pressure • Press arm limit switch defective • Solenoid valve does not work	• Check and adjust pressure regulator • Check wiring or replace switch • Check the wiring and check for leaks • To replace
The machine does not heat up	• No voltage on the machine. • Heating element defective, or temperature sensor defective, or solidstate relay defective, or electronic control panel defective	• Check outlet and fuses • To replace
Error message: Heater Defective	• Heating element defective	• To replace
Error message: PT 1600 Defective	• PT 1600 temperature sensor defective	• To replace
Temperature too high / too low	• Temperature settings have been changed • Temperature sensors are defective	• Restore settings • To replace
Bad heat sealing results	• Temperature setting incorrect • Air pressure setting incorrect • Press time not correct • Heat shield loose, or dirty • Press pad worn or dirty	• see table, page 18 • See 7.3 Pneumatic settings. • see table, page 18 • Correct, clean • Replace, clean
Bad printing quality	• Inkjet cartridge too dry • Damaged print head • Text spacing fault	• Clean or replace • to replace • See table, pag 18
The print shows horizontal stripes	• Print head defective • Electronic main board defective	• To replace • To replace
The dynamic knife is malfuctioning	• The dynamic knife is worn or blunt • Operating cylinder of the dynamic knife does not work	• to replace • check connections; to replace

Fault	Possible cause	Solution
Thermo-Seal tape has become stuck in the tape guide	• Tape guide is dirty • Splice in marking tape or folded marking tape in the tape guide	• Clean the tape guide inside and outside • Remove the marking tape and cut out the splice or fold
Unreadable or no information at all on the display unit	• Loose connection at LCD panel or control board. • Defective band cable • Defective LCD Panel	• Re-connect the cable to the LCD panel or control board. • To replace • To replace
Wrong character spacing on the marking tape	• Blockage in the tape guide • Worn O-ring on the drive spindel • Defective steppermotor	• Clean tape guide • To replace, see pg. 27 • To replace
Unwanted imprint on garments or other textile items	• Ink build up on the rubber sealing pad • Ink build up on the heater shield	• to clean or replace • to clean or replace
Discoloration of the textile after marking	• The textile is temperature sensitive, or the textile care label has not been followed, or the time has been set too long, or the temperature has been set too high.	• Use Extra Long label. • Decrease the pressing time, • Lower the temperature setting
Labels come off on the left side	• Heavy mechanical stress during washing or cleaning. • Temperature is set too low. • Baling pressure is set too low. • Pressing time is set too short.	• Replace sealing pad • Correct the temperature • Correct the pressure • Correct the time

11. End of life

When disposing of the machine at the end of its life, choose responsible processing.

- Electrical machines, accessories and packaging must be recycled as much as possible in an environmentally responsible manner.
- Disassemble the machine into groups: steel parts / pneumatic components / electrical components
- These can be handed in separately and reused.

ATTENTION!

You must always comply with the current and locally applicable requirements and guidelines for safe working and responsible disposal.

12. CE Declaration of conformity

We,
Thermopatch B.V.
Draaibrugweg 14
1332 Almere
Netherlands

CE

herewith declare, on our own responsibility, that the machinery: marking machine Thermopatch Y-600 which this declaration refers to, is in accordance
with the conditions of the following Directive(s):
2006/42/EG (Machinery directive)
2014/30/EU (EMC directive)

The Netherlands, Almere, 05-07-2016

Stephen Huyton
Business & Financial Director Thermopatch EMEA

We,
Thermopatch BV
Draaibrugweg 14
1332 Almere
Netherlands

declare that the DoC is issued under our sole responsibility and belongs to the following product: Thermopatch **Y-600 Thermo-Seal ™ -Jet**, which this declaration refers to, is in accordance with the conditions of the following guidelines:

- Electromagnetic Compatibility Regulations (EMC) 2016
- Electrical Equipment (Safety) Regulations (LVD) 2016
- Supply of Machinery (Safety) Regulations 2008

The Netherlands, Almere, 01-05-2022

Stephen Huyton
Business & Financial Director Thermopatch EMEA

13. Disclaimer

The information contained in this document is confidential, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Thermopatch B.V..
The opinions expressed are in good faith and whilst every care has been taken in preparing these documents, Thermopatch B.V. makes no representations and gives no warranties of whatever nature in respect to these documents, including but not limited to the accuracy or completeness of any information, facts and/or opinions contained therein.
Thermopatch B.V., its subsidiaries, the directors, employees and agents cannot be held liable for the use and reliance of the opinions and findings in this document.
For any warranty Thermopatch B.V. refers to its general terms and conditions.
We can confirm that the machines we supply conform to CE when in standard configuration.
Using sealing pads of any format other than the standard supplied with the machine may render the CE declaration invalid.
Thermopatch accepts no responsibility for any damage or injury that may result from possible non-conformity.
Choosing an alternative configuration other than the standard is at the customer's own responsibility.

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