

Automatic Pretreat Sprayer Mister T2

Model No.: E-PT-MT2

OPERATOR'S MANUAL



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Safety Instructions

For Use By Qualified Personnel Only

**When using your Heat Press,
basic precautions should always be followed,
including the following:**

Read all instructions.

Use the Mister T2 only for its intended use.

Mister T2 operates with a pre-treatment liquid for fabrics that is designed for being able to print with Direct-to-Garment printer. Cleaning MUST be done only with distilled water! Any other liquids, alcohol or solvent may damage pumps or other components of the machine. Damages caused by unauthorized liquids are excluded from the warranty.

Mister T2 comes with 12 months warranty. This warranty includes the whole construction of the machine, mechanical parts, electronics, drawer with rails, casing, pumps, electronic valve and pipes. Consumption items such as stainless steel nozzles, seals, and filters are excluded from the warranty.

The set-up and installation of the machine has to be done under supervision of an authorized person. The installation has to be done by 2 or more persons following the instructions of this manual.

Caution: unplug the machine prior to any maintenance procedure.

Never pull cord to disconnect the power. Instead, grasp plug and pull to disconnect from power outlet.

Protect the power cord by keeping it away from hot surfaces. Do not allow objects to sit on top of the cord. This could cause damage to the cord and become a fire hazard.

Do not operate pretreatment machine with a damaged cord or if the equipment has been damaged. To prevent risks of injury, please do not disassemble or attempt to repair the heat press by yourself if you are not qualified to do so. Instead, call or take it to a qualified service person for examination and repair. Incorrect assembly or repair could increase the risk of fire, electric shock, or injury to persons when the equipment is used.

If heat press being used by or near children, please make sure that it is supervised. Do not leave equipment unattended while connected. Make sure that the cord is safely secured so it cannot be pulled or tripped over.

To reduce the likelihood of circuit overload, do not operate other high voltage equipment on the same circuit.

The machine should only be used by trained personal after reading and understanding this manual.

Congratulations on your purchase of a Automatic Pretreat Sprayer Mister T2! In order to work professionally with the machine and start production, please make sure you read this manual carefully.

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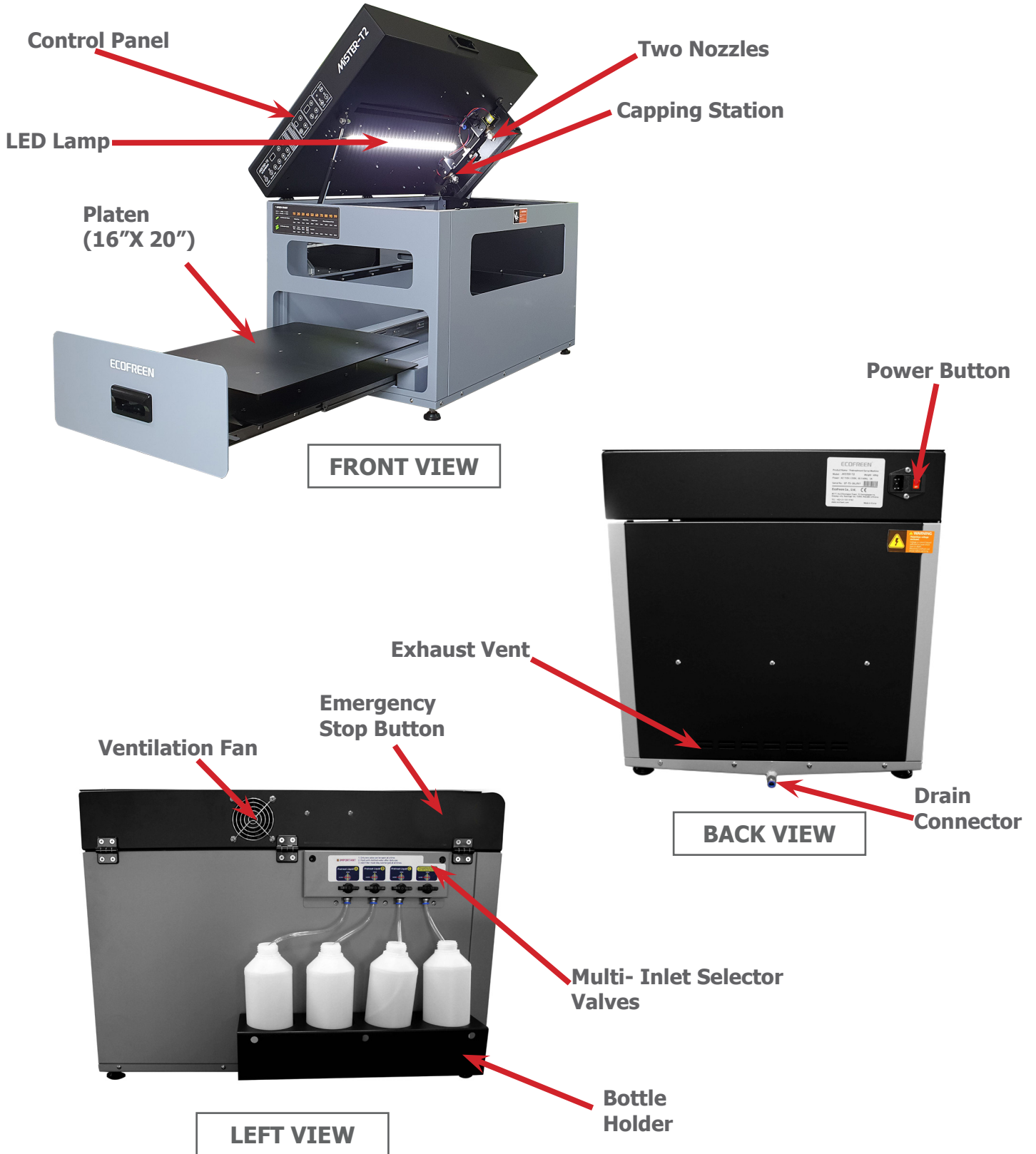
Mister T2 Overview



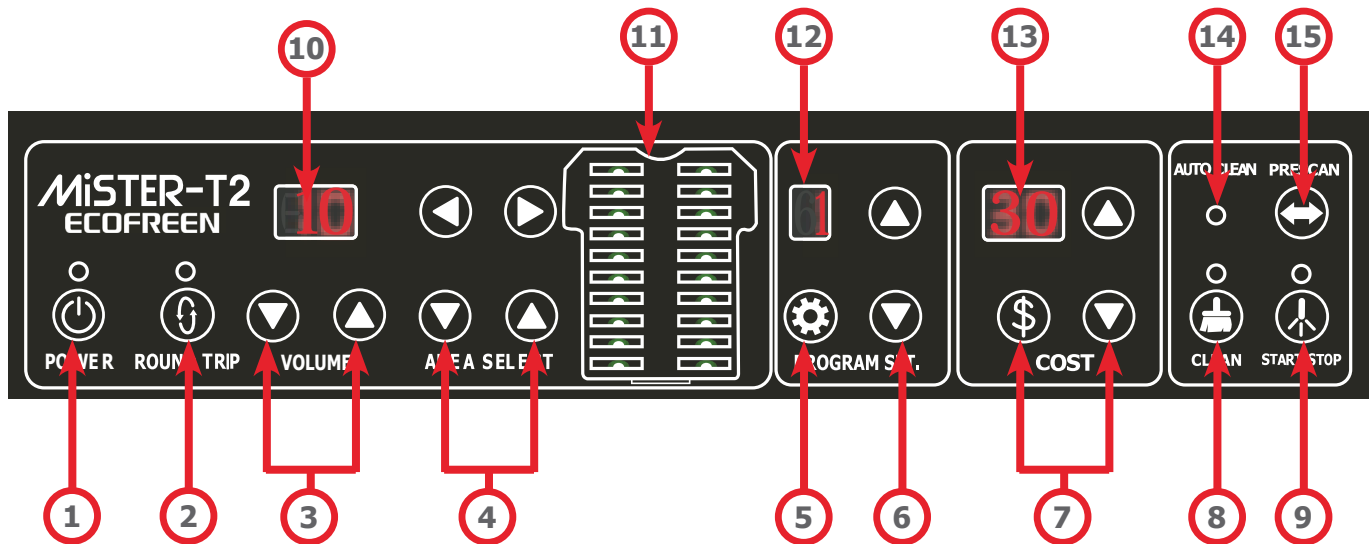
Technical Specs

Model No.:	E-PT-MT2
Machine Type:	Automatic Pretreat Machine
Machine Size:	W22.04" x L31.49" x H23.22" (560 x 800 x 590mm)
Weight:	88.18lbs (40kgs)
Platen Size:	16" x 20" (40cm x 50cm)
Number of Spray Nozzle:	Two Nozzles
Maximum Spray Area:	16" x 20" (40cm x 50cm)
Spray Cycle Time:	3 sec ~ 9 sec, by 10 to 99 speed
Power Supply:	110-120V~, 1.0A, 50/60Hz
Power Consumption:	60W
Packing Size:	W23.37" x L36.81" x H33.07" (670 x 935 x 840mm)
Packing Weight:	110.23lbs (50Kgs)
Liquid Consumption:	With Minimum Speed : about 85ml With Maximum Speed : about 12ml

Machine Parts Diagram



Navigating the Control Panel



Understanding the Control Panel

- 1) POWER ON/OFF BUTTON
- 2) ROUND TRIP BUTTON : Spray pretreat liquid with bi-direction when the light above is on. Otherwise, it sprays with uni-direction only.
- 3) VOLUME BUTTON : Freely adjustable the volume of liquid (about 12~85ml).
- 4) AREA SELECT BUTTON : Freely adjustable the spray area. (Please refer to the page 13 for the example of setting the spraying area.)
- 5) PROGRAM SETTING BUTTON : Setting for preset options. (Please refer to the page 25 for how to set the options above)
- 6) PRESET OPTION SELECT BUTTON : 9 options can be saved and retrieved. (From 1 to 9 options)
- 7) COST SETTING BUTTON : Setting the cost of pretreat liquid for each spraying. (Please refer to the page 27 for setting the cost of liquid) Also, for setting the unit for ink & currency, period & time for auto cleaning system. (Please refer to the page 28 for how to set the options above)
- 8) NOZZLE CLEANING BUTTON
- 9) START / STOP BUTTON : Spray or stop the pretreat liquid.
- 10) DISPLAY for SPRAYING VOLUME (10~99).
- 11) DISPLAY for SPRAYING AREA.
- 12) DISPLAY for PRESET OPTIONS (option # from 1 to 9).
- 13) DISPLAY for COST of LIQUID for EACH SPRAYING.
- 14) AUTO CLEAN LAMP : Automatic spray for 2 seconds in every 4 hours when power is off. (Please refer to the page 28 to program the time for the cycle.) (The main power switch on the back of the machine must be turned on for the automatic cleaning system.)
- 15) PRESCAN BUTTON : Preview the spraying area by laser.

Installation

Open the top of the machine and find the accessory box inside. Make sure you have all the components below in the box.



Leveling the Machine

Please ensure the machine is leveled properly to avoid leaking of waste liquid.

To level the machine, turning the machine feet clockwise will decrease the height and turning the feet counter clockwise will increase height.



Assembling the Bottle Holder

The bottle holder comes with 6 screws which can be found in the accessory box. Assemble the bottle holder similarly to the picture on the right.



Connect the Power Cord

The power switch and the power connection can be found at the back of the pretreat machine.

Connect Drain Tube & the Waste Tank

The drain connector is located at the back of the machine.

Connect the large tube (drain tube) to the connector on the bottom and then place the other end in an waste tank.

This will collect any excess pretreatment when the machine run.



Installation

Prepare a bottle with Universal Pretreat Solution

If using ECOFREE UNIVERSAL concentrate, mix the liquid and purified water as below



Universal 1L + Water 2L = 3L for DARK or Blended

Universal 1L + Water 1L = 2L for POLY

Nozzle Alignment

Do NOT make the two nozzles horizontal as the picture on the right.

Otherwise, sprayed pretreat liquid will be overlapped in the middle of the T-shirts.

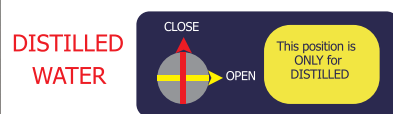
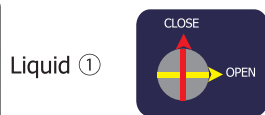
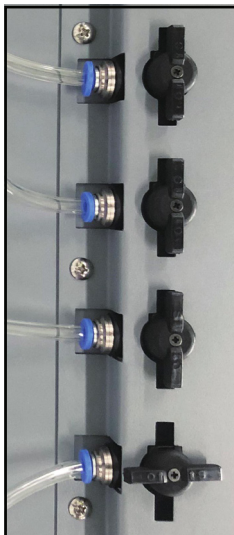


Please make sure the nozzles alignment as the picture on the right.



Placing the Filters in The Bottles

Place the filters in the bottles for pretreat liquid or water and turn the valve clockwise to open the preferred valve to spray the liquid or water.



WATER

IMPORTANT

- The water bottle should be placed in the 4th valve as the picture on the left.
- Only one valve can be open at a time.
- Flush with distilled water after daily use.
- Inlet Filter must stay submerged at all times.



Setting Up Your Pretreat Machine

Turning On Your Pretreat Machine

1) Turn the Main Power Switch on. The Main Power Switch is at the back of the machine.





* Please ensure the emergency button on the left side of the machine is not locked. If the emergency button is locked, unlock by turning the button clockwise.



2) Press the POWER BUTTON on the control panel to start the machine (Press and hold for a few seconds)

Using a Preset Settings

Press  or  to retrieve the saved preset. (Please refer to page 25 to set up a preset).



Using a Auto Start Mode

Scan the barcode for auto start mode. Refer to the page 10 to create the barcode. (Scanner is optional). * While auto start, open top lid = pause / press stop = reset

Setting Spraying Direction

Press ROUND TRIP BUTTON to set a unidirectional spray or bidirectional spray. When the round trip light is on, the machine will spray bidirectional. If the light is off, the machine will spray unidirectional.



Setting Up Your Pretreat Machine

Setting Spraying Volume

Choose from 10 to 99.

* Please refer to the volume chart on page 17.

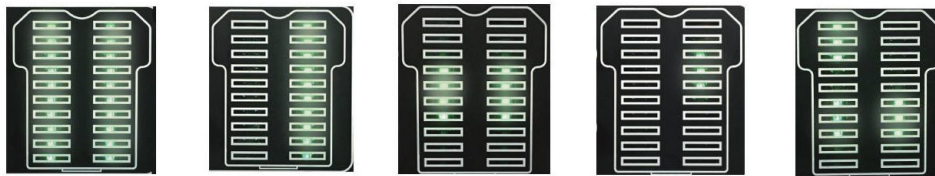


Setting Spraying Area

Spray area is divided into 10 sections and only sprays on the selected area.

The area can be freely adjustable as below.

Example of Setting Spraying Area



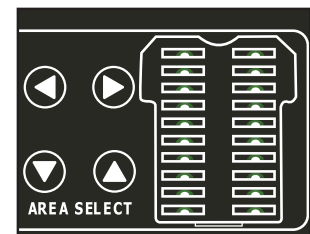
Full Area

Right Side

Middle Area

Right Pocket

Multi Area



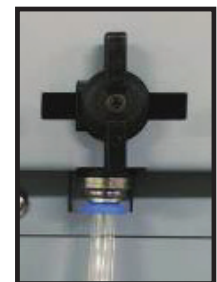
Setting Bottle

Switch the bottles by turning the desired valve in clockwise.

* Only ONE valve can be open at a time.



Close



Open

Setting Up Your Pretreat Machine

Cleaning the Tube and Nozzles

When you change the bottle to another (to different liquid), please press CLEAN BUTTON.

Please clean the tubes and nozzles with water in valve #4 in order to flush the tubes of the previous liquids before switching to another liquid.

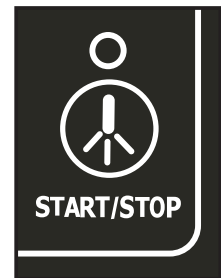
This will prevent any clogs that may occur due to chemical reactions.



Using multiple coating liquids can cause the nozzles to clogged due to chemical reaction.

Start/ Stop Button

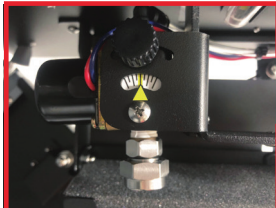
Press the START/STOP BUTTON to start spraying your shirts with pretreat. Press the START/STOP BUTTON again to stop.



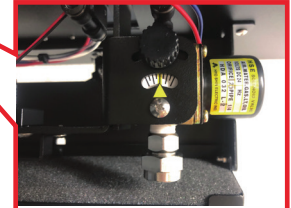
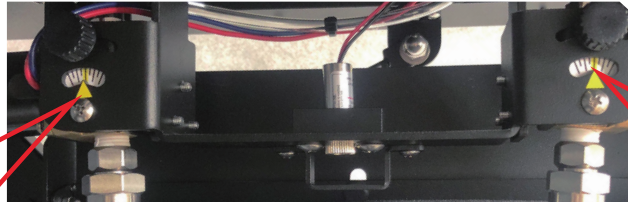
Adjusting Nozzles Angles

1) Open the top lid and check the current angles.

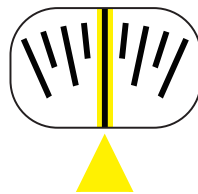
See gauges in the picture below.



Left Nozzle
Gauge arm is centered



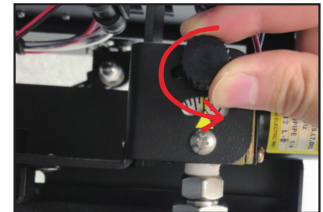
Right Nozzle
Gauge arm is centered



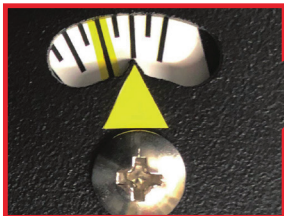
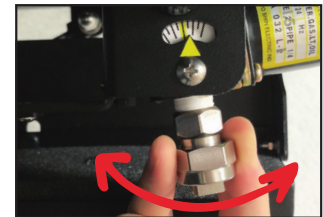
Initial setting of
the gauges

2) Adjust the angles of right and left nozzles.

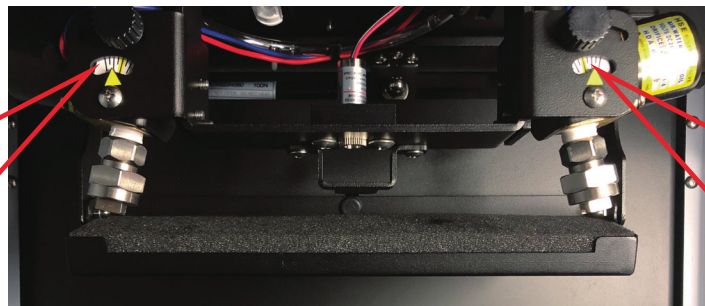
Turn the knob above the gauge counter-clockwise to loosen and adjust the angles.



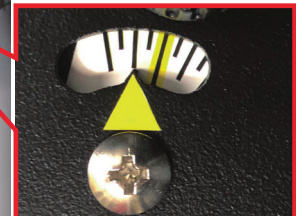
Set the desired angle of the nozzle. Then, turn the knob clockwise to lock the angle.



Left Nozzle



Post Nozzle Adjustment



Right Nozzle


Saving a Preset

1) Select a Preset Number

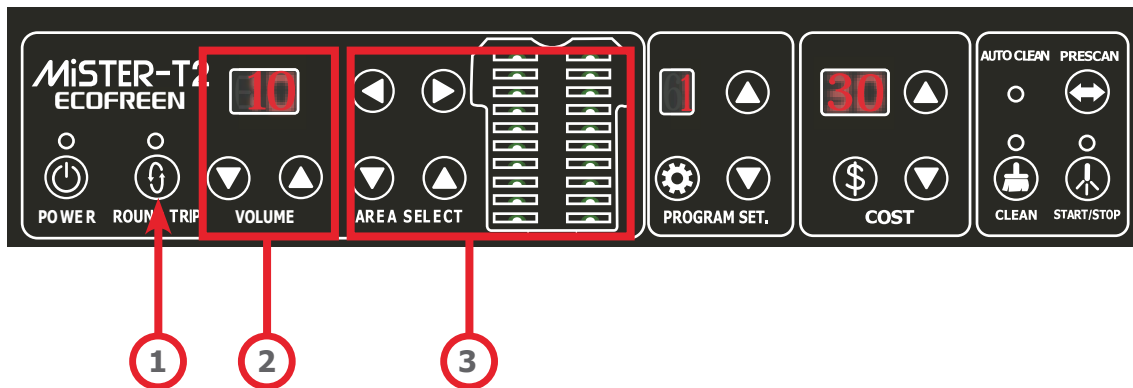
Select which preset # you would like to program (1~9)



2) Enter the Preset Mode

Press and hold Settings button  on the control panel for 3 seconds. The LED will be turned off and the numbers on the display will blink. Then, you can program spraying direction, volume, and area.

3) Set the Options



1) SPRAYING DIRECTION

Select uni-direction or bi-direction. If light above Round Trip is on, the pretreat will be sprayed in bi-direction mode. If the light is off, the pretreat will be sprayed in uni-direction mode.

2) SPRAYING VOLUME

Select the volume of liquid (10~99)

* Please refer to the volume chart on page 17.

3) SPRAYING AREA

Select the spraying area.

Saving a Preset

- Full, Middle, Side Pocket Area




Full Area


Middle Area

Right Side

Right Pocket

STEP 1: Select start area and press  button to save.

STEP 2: Select end area and press  button to save.


STEP 3: Press  button twice because there is no need to set "the section 2" like multi area below.

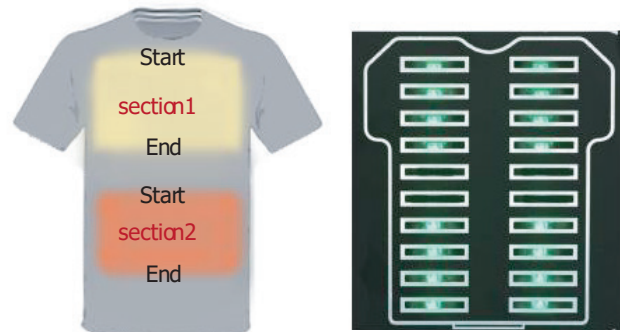
- Multiple Areas

STEP 1: Select start area of section 1 and press  button to save.

STEP 2: Select end area of section 1 and press  button to save.

STEP 3: Select start area of section 2 and press  button to save.

STEP 4: Select end area of section 2 and press  button to save.



The Start Area →  → The End Area →  → The Start Area →  → The End Area


Section 1

Section 2

Saving a Preset

4) Exit the Preset Mode

After setting spraying area, the nozzles will automatically go back to the start point.

If the control panel are still blinking, press and hold Settings button  on the control panel until you hear a beep.

Once LED is on and no other lights of the control panel are blinking, **MISTER-T2** is ready to be operated.

5) Retrieve the Preset Number and Spray

Retrieve the preset and press "START/STOP" button

Overwriting the Preset Options

If you have used all the preset options (1-9), you can overwrite any saved settings by following the same steps of Saving a Preset (Page 12-14).

Setting the Cost of Pretreat Liquid

1) Press  button to change the cost of pretreat liquid.

2) When the numbers on the control panel (See picture on the right) are blinking, press  and  buttons to set the cost.

3) After setting the cost, press  button to save the setting.





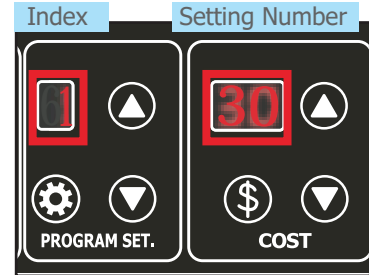
* The cost of the pretreat liquid showed on the display is provided for general information purposes only. It does not represent the accurate cost of the liquid.

ECOFREEN/ Joto has no responsibility for the accuracy of the data and the issue which may arise from using or relying on the information.

Settings Mode

1) Entering the Settings Mode

Simultaneously press and hold  and  button in the COST section on the control panel until both the numbers on the control panel (red boxes on the right) are blinking.





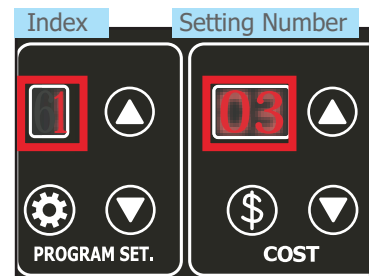
2) Setting each option

Refer to the table below to set each option.

	Settings Number	1	2	3	4
Index Number	Classification				
1	Unit for Ink Bottle	1 Gallon (3.78L)	1 Liter	1 Kg	
2	Currency for Purchasing Pretreat	1 USD, EUR, GBP, AUD, CAD	10 CNY	100 JPY	1000 KRW
3	Currency for Cost of Spraying Pretreat	1 Cent, Euro Cent, pence	1 JIAO	1 JPY	10 KRW
4	Set time for the fan off after machine off	10 minutes	20 minutes	30 minutes	40 minutes
5	Auto Nozzle Cleaning Cycle	1 minute	1 hour	2 hours	4 hours
6	Spraying Time during Auto Nozzle Cleaning	1 second	2 seconds	3 seconds	

3) Exiting the Settings Mode

Simultaneously press and hold  and  button in the COST section on the control panel until **both the numbers** on the control panel (red boxes on the right) are blinking.



Switching Pretreat Solution

- 1) When switching between pretreat solutions, close the valve by turning the valve in counterclockwise. Then, open the 4th valve which should be filled with water for cleaning.
- 2) Press the "CLEAN" button. Let the machine spray until you see no pretreat solution in the tube (7~10 seconds).
- 3) Close the 4th valve (distilled water) and open the preferred valve. Press "CLEAN" button to flush out the water (7~10 seconds). Once you see the tubes filled with pretreat solution, press "CLEAN" button again to stop spraying/flushing.



Volume Chart

*** VOLUME CHART**

FAST << SPEED >> SLOW
LESS << VOLUME >> MORE

	10	20	30	40	50	60	70	80	90	99
 Uni-Direction Spray	White Thin		White Thick		Bright Color			Black Medium & Thick		
	12ml	15ml	19ml	23ml	26ml	29ml	33ml	36ml	40ml	43ml
 Bi-Direction Spray	Black Thin	Black Medium	Black Thick	Black Super Thick	Hoodies					
	26ml	30ml	37ml	44ml	50ml	57ml	65ml	72ml	78ml	85ml

The above are general guidelines on the speed and setting to use the pretreat your shirts. Please note that some adjustments may be needed depending on the pretreat solution you use.

If shirts are not dry using the recommended heat press settings, please repress the shirt until it is completely dry before printing.

Not all shirts will be the same, so we highly recommend you do testing on any new shirts you pretreat before going into commercial production.

* The volume of the pretreat liquid showed on the display is provided for general information purposes only. It does not represent the accurate volume of the liquid.

ECOFREEN/ Joto will have no responsibility for the accuracy of the data and the issue which may arise from using or relying on the information.

Pretreatment Guide

Pretreating a Shirt

Use the Recommended Spray Volume and Fixation Temperature

1. Please prepare all equipment to be turned on. **Turn ON the machine.**
2. If pretreatment is already loaded in the tubes, please skip steps 2 & 3.
Ensure that the pretreatment solution is loaded into the tubes by press the CLEAN button to. This usually takes about 7~10 seconds.
3. Once you see the machine spraying the pretreat solution, press clean button again to stop the spraying.
4. Pre-press your shirts on a heat press for 5 seconds to avoid any wrinkles prior spraying.
Load your shirt. To avoid the shirt getting caught in the railing, please tuck the sides of the shirts to the platen.
5. **Set the appropriate volume and spray direction settings.**
The spray setting guide can be found on Page 16 & 17 of this manual.
Press the START/STOP button to start spraying once you have your shirts and settings set.
(Please refer to the page 13 to learn how to operate the machine)
6. **Place the pretreated shirts on the heat press to dry*.** Place a heat-resistant release sheet, such as Teflon/Silicon sheet between T-shirt and the heat press.

* To dry the shirt, please use the following settings:

DARK COTTON : 320°F ~340°F (160°C ~170°C), 60~70 seconds.

BRIGHT COTTON : 293°F ~320°F (145°C ~160°C), 35~45 seconds.





POLY : 320°F ~340°F (160°C ~170°C), 90 seconds.

The settings above are to be used as a guide. Some adjustment may be necessary.
If the shirt is not dry after the recommended time, repress the shirt until dry.





**Please Note: Different brands and types of shirts will require different amounts.
Start with the recommended amounts on page 17 and adjust accordingly.
Some testing may be required for new styles and brands of shirts.
It is recommended to keep a record of how much is required for each brand/type of shirt.**

DTG Pretreatment & Fixation Guidance

Heat Press Setting for Pretreatment

	 Bright	 Dark	 Poly	 Blended (Hoodie)
Garment	Bright Cotton	Dark Cotton	Poly	Blended (Hoodie)
Quantity	10-20g	20-35g	30g	50g
Volume Level on Mister T2	Volume Level 10~30	Volume Level 10~20	Volume Level 20	Volume Level 50
Spraying Level on Mister T2	Uni-Direction	Bi-Direction	Bi-Direction	Bi-Direction
Time	35-45 seconds	60-70 seconds	90 seconds	90-120 seconds
Temperature	293-320°F (145-160°C)	320-338°F (160-170°C)	320°F (160°C)	320-338°F (160-170°C)
Pressure	1.0-2.0 Bars 14-29 PSI	7.0-8.0 Bars 101-116 PSI	7.0-8.0 Bars 101-116 PSI	7.0-8.0 Bars 101-116 PSI

Ink Heat Press Curing Setting

	 Bright	 Dark	 Poly	 Blended (Hoodie)
Time	45-55 seconds	90-100 seconds	90 seconds	90-120 seconds
Temperature	293-320°F (145-160°C)	320-338°F (160-170°C)	320°F (160°C)	320-338°F (160-170°C)
Pressure	0-1.0 Bars 0-14 PSI	0-1.0 Bars 0-14 PSI	0-1.0 Bars 0-14 PSI	0-1.0 Bars 0-14 PSI

Note: The above conditions subject to change depending on the fabric type.
Please start with the recommended amounts he liquid above and adjust accordingly.

* Dilution Guide for I-PRETREAT-EUNI-1L



Universal 1L + Water 2L = 3L for DARK or Blended

Universal 1L + Water 1L = 2L for POLY

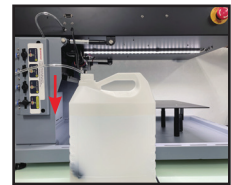
Maintenance

Daily Maintenance

Press "CLEAN" button to **flush with water and clean the nozzle everyday** at the end of work.

Never leave the filter exposed to air to avoid the filter from drying and clogging.

Always put the filter into the pretreat or cleaning water container. (See picture on the right)



Monthly Maintenance

Replace the filter every two months to prevent it from getting clogged resulting in inconsistent spraying.

Please note, running the machine without filter will cause the damage of pump, solenoid valve, nozzle and inconsistent spraying.

The warranty will be void if the machine runs without placing the filter.

Replace the sponge in capping station every two months to prevent damaging of the nozzle and clogging it.

IMPORTANT: Try to keep the main power switch on.

This will enable automatic cleaning program which is purging for seconds by every 4 hours when not in use.

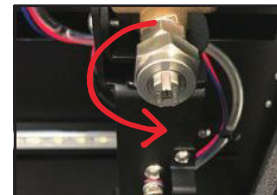
Cleaning The Nozzle

1) Press POWER ON/OFF BUTTON on the control panel to switch off.

2) Gently open top lid.



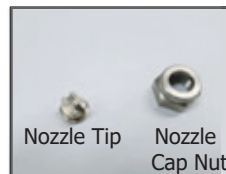
3) Turn the Nozzle Cap Nut to counter-clockwise to loosen and dislocate the nozzle.



Scan the QR CODE for the video!

Maintenance

4) Clean the Nozzle Tip, Cap Nut and Sol Valve using water and wet paper tower.



Reference

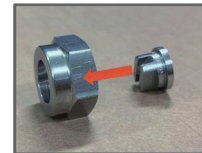
The nozzles can be cleaned in an ultrasonic cleaner. To clean the nozzle and its parts, please fill distilled water and run it for 6~7 minutes.



Storage

NEVER LEAVE THE NOZZLES EXPOSED TO AIR. Remaining pretreat can be dried out and stick to nozzle causing inconsistent spraying or clogging of the nozzle.

5) Assemble the Nozzle Tip and the Nozzle Cap Nut as the picture on the right.



When assembling Nozzle Tip after disconnecting and cleaning the nozzle, Please make sure the Nozzle Tip's alignment. Failure to do this will result in the pretreat not being sprayed properly on the shirt.

CAUTION

Please make sure the nozzles alignment as the picture on the right.



Filter Maintenance

NEVER LEAVE THE FILTER EXPOSED TO AIR.

Doing so will cause the filter to be clogged. The filter is a consumable part and will need to be replaced every two months.

If your machine is not spraying liquid, check to see if the filter is clogged. Simply removed the filter from the end of the inlet tube and start spraying.

If spraying occurs after the filter is removed, it means the filter is clogged and you will need to replace it.

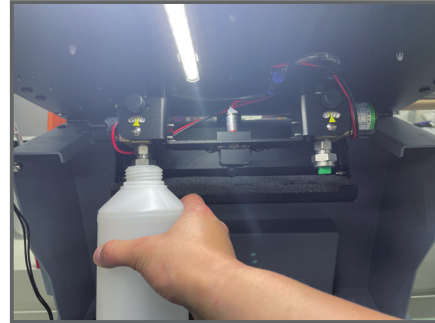
Maintenance

Daily Maintenance: Cleaning at the end of a work day

STEP 1: Collecting Remaining Pretreat Liquid




1) Take out the filter from the bottle of pretreat liquid.
(Make sure to turn the valve on, otherwise filter will not suck the liquid)




2) Open the top lid and place the empty bottle underneath the left side of the nozzle.



3) Press and hold "CLEAN" button  for "3 seconds" until you hear a beep. Then, the pretreat liquid will be flushed out of the machine. Let it spray until most of pretreat in the tube to be empty (about 7~10 seconds).




4) Press "CLEAN" button  once again to stop spraying. Then, the red light above "Start/Stop button" will be turned on, meaning that the right side of the nozzle is ready to be cleaned.

Maintenance



5) Place the empty bottle underneath the right side of the nozzle.




6) Press and hold "CLEAN"  button for 3 seconds until you hear a beep. Then, the pretreat liquid will be flushed out of the machine. Let it spray until most of pretreat in the tube to be empty (about 7~10 seconds).

7) Press "CLEAN" button  to stop spraying of the right nozzle.

Maintenance

Daily Maintenance: Cleaning at the end of a work day

STEP 2: Flushing with Distilled Water

- 1) Close the top lid and put the filter into the distilled water to clean the tube.
- 2) Press "CLEAN" button  to clean the machine with distilled water and let it spray until all the tube inside of the machine will be cleaned by distilled water (about 30 seconds).



Troubleshooting

1) I have strike lines on shirt post coating or I have an irregular spraying. What should I do?

Your nozzles or filters might be clogged. Therefore, you will need to clean the nozzles and/or filters (see maintenance section for instructions on how to clean them) or you may need to replace them.

2) My pump does not have any pressure or the spray is too low.

It could be due to the electronic valve, nozzles or filters being clogged, or the pump may be dirty or faulty. You will need to check the nozzles and filters and make sure they are clean, flush the pump with distilled water or replace it.

3) The waste liquid is not draining properly.

The drain tube may be blocked or bent. Please make sure that the tube is not blocked and is positioned at a lower place.

Troubleshooting

4) **My control panel is not responding.**

This could be due to the top cover being open, a loose connection between the display and the electronics or it may be a display failure. To fix that, you will need to check the sensor located at the hinge of the top, make sure there is a connection between the display and the electronics and/or turn off the machine and turn it back on. If that does not work, you may need to replace the display.

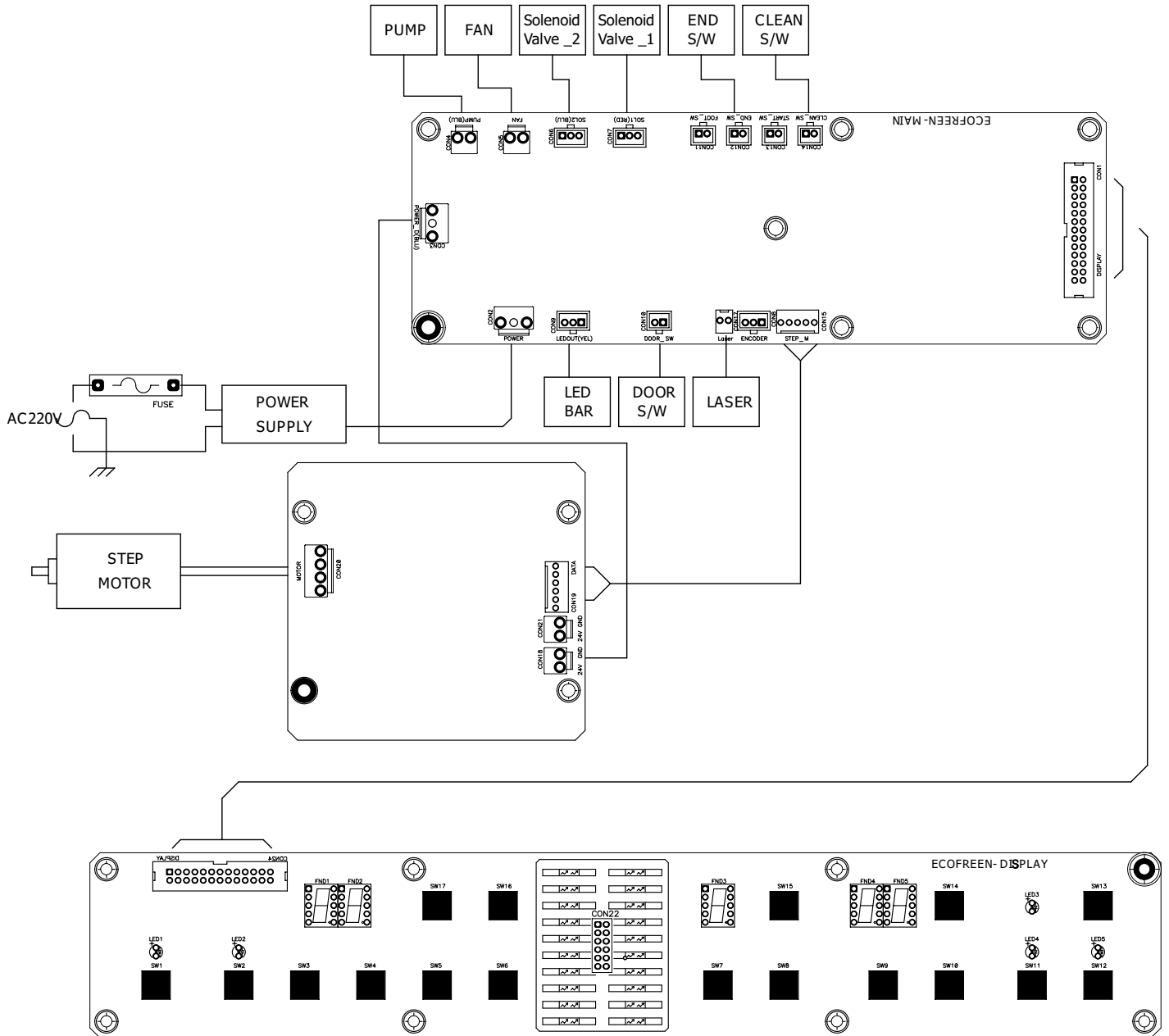
5) **My pretreatment machine is not turning on.**

This could be due to the emergency button being on, the machine is not connect to an outlet, or that the power switch at the back is turned off. Make sure that the emergency button is off, the machine is plugged and that the power switch in the back is turned on.

6) **My pretreatment machine is leaking.**

The machine is not levelled properly. Make sure that you adjust the level of the machine so that the front of the machine is higher than the back.

Circuit Diagram



Warranty Statement

Warranty Terms and Conditions

MiSTER-T2 has to be operated with a pretreating liquid for fabrics for DTG Printer.
Cleaning **MUST** be done with water only!

Other liquids alcohol or solvent may damage pumps or other components of the machine.
Damages caused by unauthorized liquids are excluded from the warranty.

MiSTER-T2 comes with 12 months warranty.

This warranty includes the whole construction of the machine, mechanical parts, electronics, drawer with rails, casing, pumps, electronic valve and pipes.
Consumption items such as stainless steel nozzles, seals and filters are excluded from the warranty.

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