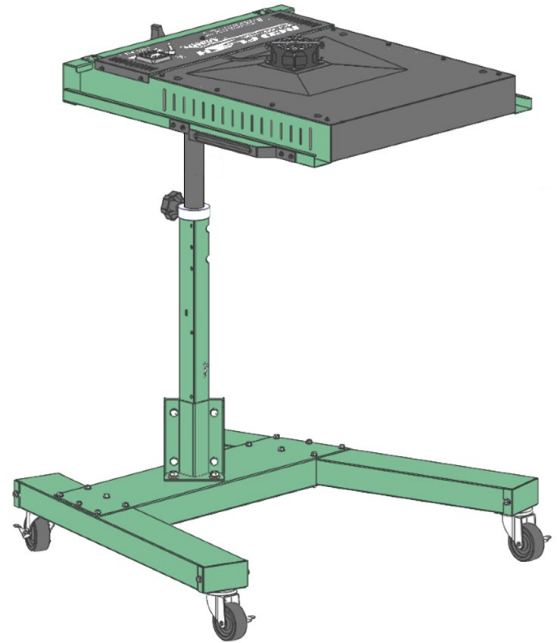
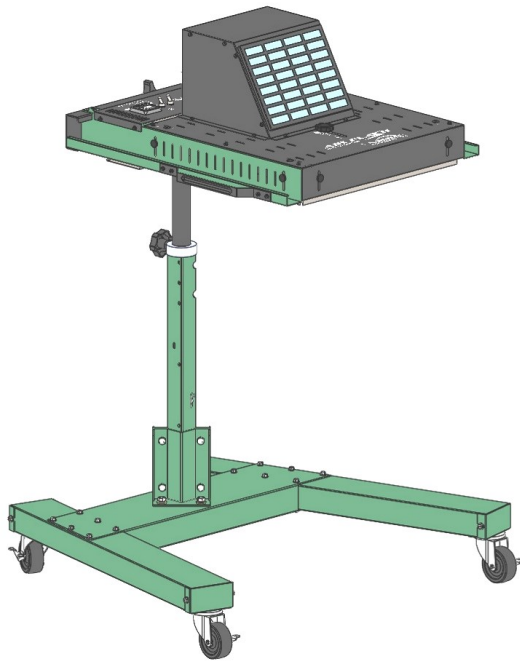




# RedFlash and AirFlash Manual

## Assembly and Operating Instructions



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 Tel : + 31 (0) 294 – 48 33 55  
 Fax : + 31 (0) 294 – 41 46 87

Electrical Drawing #: \_\_\_\_\_ Rev: \_\_\_\_\_

Serial #: VTX-\_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

(Please log your machine's serial number and date of purchase for future reference.)

### Vastex E-mail assistance

Purchasing & Product Info:  
[sales@vastex.com](mailto:sales@vastex.com)

Tech Support:  
[techsupport@vastex.com](mailto:techsupport@vastex.com)



### Warranty

A copy of the warranty is also available at:  
<https://www.vastex.com/Library.php>

## — Placing your equipment into service

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This manual contains assembly and operating instructions for the RedFlash and AirFlash. Refer to page 4 of this manual to determine the electrical requirements for your product. Ensure that your electrical supply matches the requirements of your unit; if it does not, consult a licensed electrician for assistance.

- 1.) Begin by assembling your unit's stand. See page 5&6 of this manual if you are unsure which stand type you have (standard or SHHD heavy-duty). Follow the standard stand assembly directions on page 6, or the heavy-duty stand assembly instructions on page 5, as appropriate to your stand.
- 2.) Assemble your head unit onto your saddle as shown on page 7.
- 3.) If you own an AutoFlash model, please refer to manual 01-03-038\_Autoflash\_Manual

## — Instructions for use of this equipment

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For RedFlash and AirFlash models: follow the instructions on page 8 of this manual.

## — Stability during use, transportation, assembly, testing, and foreseeable breakdowns

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This equipment is designed and expected to be stable during all foreseeable conditions, provided that the safety information and instructions in this manual are followed. Do not place any objects on machine heads. If it is necessary to remove the column from the stand, lay the saddle/head assembly flat on the ground — do not try to balance it upright.

## — Safe transport, Handling, and Storage

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This equipment is designed to be as safe as possible under all foreseeable conditions of transport, handling, and storage. Be certain to switch the equipment off, unplug it, and let it cool before handling any parts that become hot during operation, and before storing. When handling your machinery, be aware of the following weights and dimensions:

**RD-1824-240 (Head Only)** 43 lbs (19.5 kg) 26" x 35" x 8" (66 x 90 x 20 cm)

**RD-18-240 (Head Only)** 35 lbs (16 kg) 26" x 29" x 7" (66 x 74 x 18 cm)

**RAD-18-240 (Head Only)** 64 lbs (29 kg) 29" x 26" x 15" (74 x 66 x 38 cm)

**RAD-1824-240 (Head Only)** 74 lbs (35.5 kg) 35" x 29" x 15" (89 x 74 x 38 cm)

**SH-STAND-WS Standard Stand for Manual Flash** 22 lbs (10 kg) 37" x 7" x 3" (94 x 18 x 8 cm)

**SHHD-STAND-M Heavy Duty Stand for Manual Flash** 42 lbs (19kg) 30" x 14" x 7" (76 x 35.5 x 18 cm)

**SH-LEGS-AF Standard Stand for AutoFlash** 15 lbs (7 kg) 37" x 7" x 3" (94 x 18 x 8 cm)

**SHHD-STAND Heavy Duty Stand for AutoFlash** 39 lbs (18 kg) 30" x 15" x 11" (76 x 38 x 28 cm)

## — Safety Information

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- The operator should read and understand the instruction manual before operating this equipment. Store this manual and safety information near the equipment for easy access to operators.
- VASTEX flash units are intended for the curing of non-flammable inks on screen printed materials. Do not use for any other purpose unless authorized by Vastex International, Inc. Use of this equipment for any other purpose can be dangerous and may cause damage to this equipment, voiding the warranty.
- It is recommended that the area around this equipment be designated as a work area and only authorized employees are allowed in this area.
- Children and pets must be kept clear from the work area.
- Do Not place any objects on top of the heater or control box; surfaces are hot.
- Never leave equipment unattended.
- DO NOT operate any flash units with any cover or guard removed.
- Do Not operate if the power cord or heater face is damaged.
- Operator must be familiar with the controls of the flash unit before operating.
- Before starting production, check that all covers and guards are in place, no material has been left on the flash unit, and the work area is clear of obstructions.
- Make certain when turning on the heater that it is not positioned over any flammable material, including the printer pallet. If heater is allowed to dwell over pallet for extended periods of time it will damage the pallet surface.
- Always turn off power at the main disconnect (breaker) at the end of production.
- Do Not remove any cover or guard until power at the main disconnect is switched off and locked out. No unauthorized persons are to be allowed inside the control boxes.
- Turn off and lock out power at the main disconnect before cleaning and maintenance.
- Only qualified technicians should be allowed to make repairs on VASTEX Flash Units.
- **Noise and vibration:** These units do not produce noise exceeding 70 dB(A).

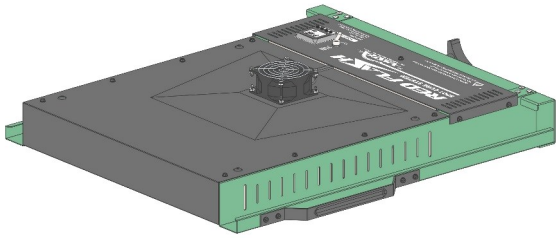
### Warning

- Heat Control and/or power switch should be switched off before plugging and/or unplugging the power cord.
- RedFlash Units are equipped with a cooling fan. Fan operates when unit is plugged in. Do Not use flash unit if cooling fan is not operating. Replace fan immediately if NOT operational. See the controls section for cooling fan replacement and ordering information.

## — Electrical Components and Info

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### 18" x 18" RedFlash



**RD-18-240:** 240 Volts, 11 Amps, 50/60 Hz, 2600 Watts.

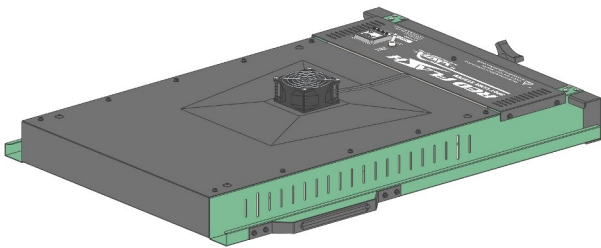
**Plugs Sold Separately:** 15amp NEMA 6-15P, 16amp Continental Europe, 13amp United Kingdom, 15amp Australian

**RD-18-240-HO:** 240 Volts, 16.5 Amps, 50/60 Hz, 3500 Watts.

**Plugs Sold Separately:** 20amp NEMA 6-20P, 20amp International Pigtail

\*Requires a dedicated outlet on a properly rated 20 amp circuit.

### 18" x 24" RedFlash

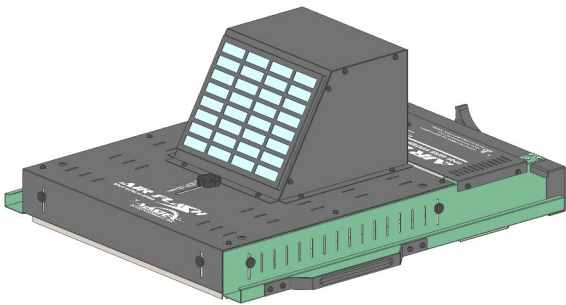


**RD-1824-240:** 240 Volts, 16.5 Amps, 50/60 Hz, 3500 Watts.

**Plugs Sold Separately:** 20amp NEMA 6-20P, 20amp International Pigtail

\*Requires a dedicated outlet on a properly rated 20 amp circuit.

### 18" x 18" AirFlash

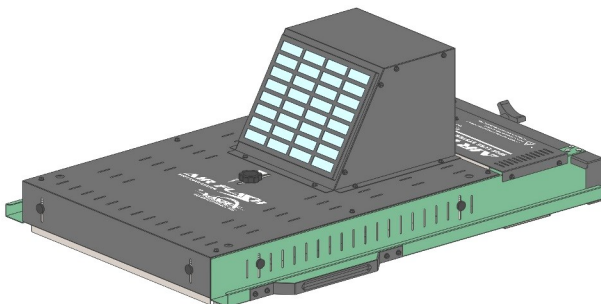


**RAD-18-240:** 240 volts, 16.5 Amps, 50/60 Hz 3500 Watts

**Plugs Sold Separately:** 20amp NEMA 6-20P, 20amp International Pigtail

\*Requires a dedicated outlet on a properly rated 20 amp circuit.

### 18" x 24" AirFlash



**RAD-1824:** 240 Volts, 22 Amps, 50/60 Hz, 4300 Watts

Sold standard with pigtail.  
NEMA L6-30P available to be sold separate.

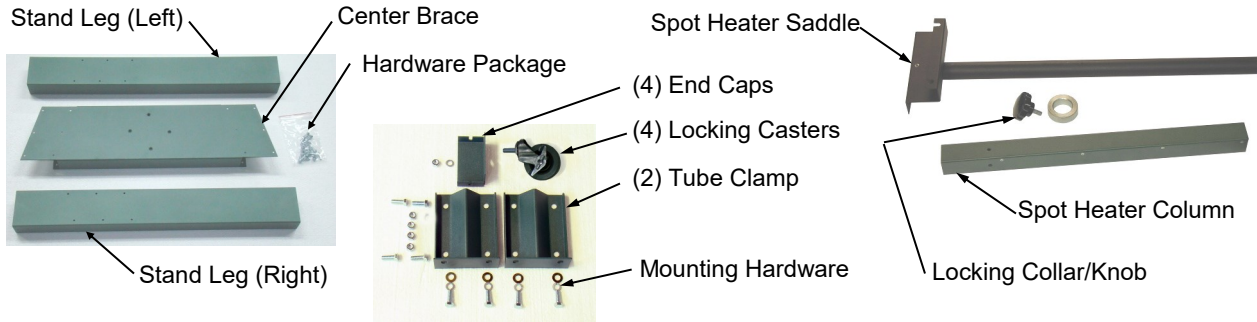
\*Requires a dedicated outlet on a properly rated 30 amp circuit.

**Do not modify the power cord or plug.** If unsure of your power source, consult a qualified electrician.

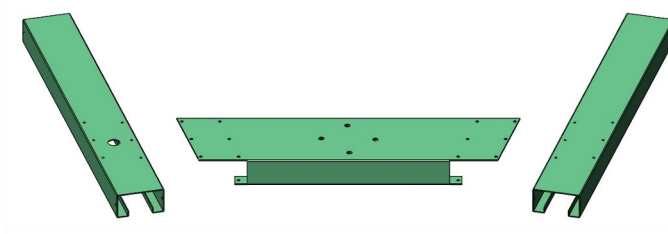
# — Assembly

1) Remove all parts from the box they were shipped in.

## Contents of Heavy Duty Stand box for Manual Flash

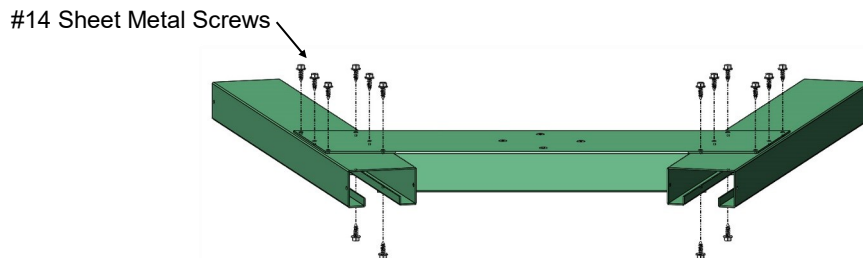


2) Place Legs and Middle on floor as shown. Note hole in left leg for orientation.



3) Install and **Tighten**

-(16) #14 Sheet Metal Screws  
Use 3/8 Socket or Wrench

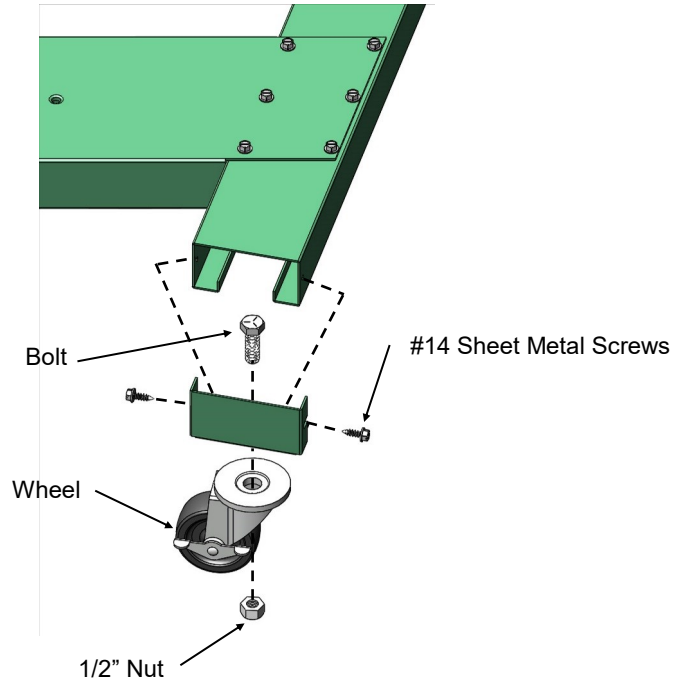


# — Assembly Continued

## 4) Install and Tighten (4x)

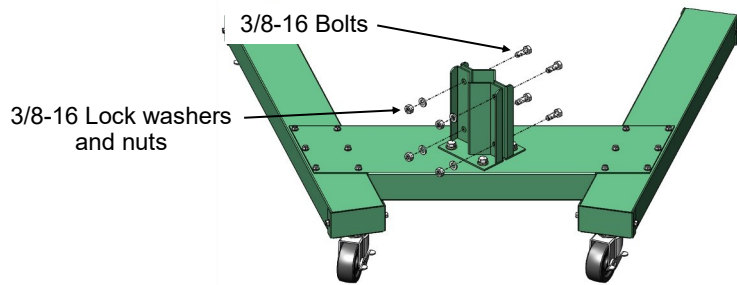
-Attach Wheel and Bolt to each bracket with 1/2" nut.  
*Use 3/4 Socket or Wrench*

-Attach Wheel bracket to Stand Legs using (2) #14 Sheet Metal Screws  
*Use 3/8 Socket or Wrench*



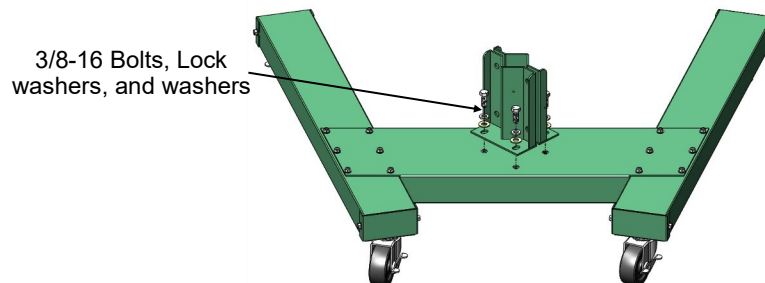
## 5) Install and Leave Loose

-(4) 3/8-16 Bolts, lock washers, and nuts



## 6) Install and Leave Loose

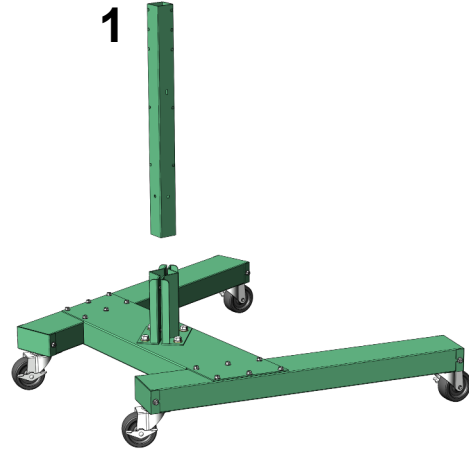
-(4) 3/8-16 Bolts, washers, and lock washers



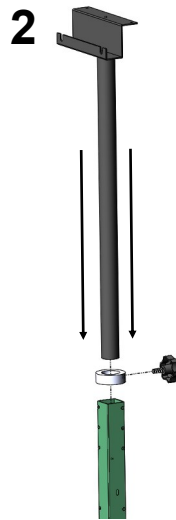
## — Flash Tube

### SHHD-STAND

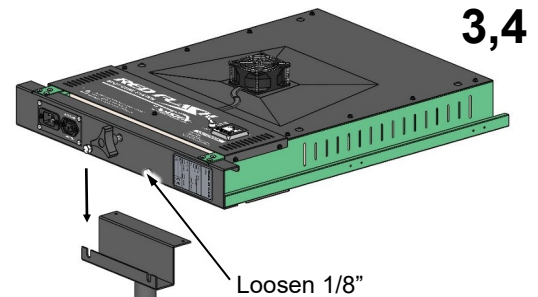
- 1a)** Install Spot Heater Column into stand as shown. Note orientation of tube. Rivets should not be clamped into stand on bottom.
- 1b)** Tighten bolts installed in stand assembly procedure.  
-(8) 3/8" Bolts, lock washers, and nuts  
*Tighten using a 9/16" or 15mm Wrench*



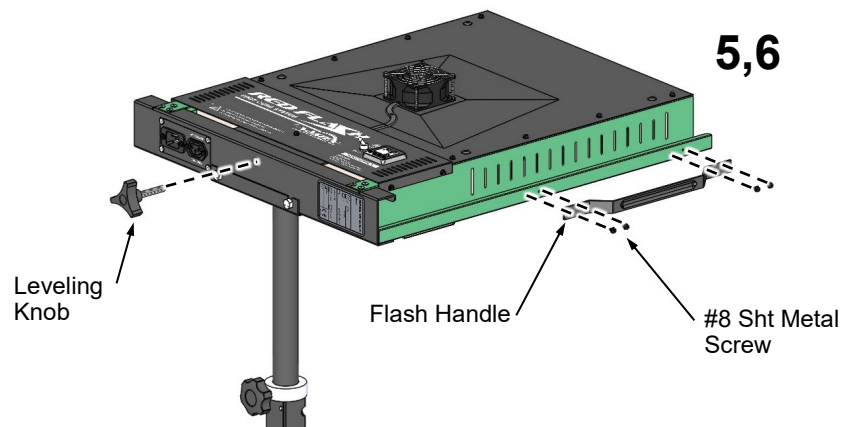
- 2)** Install Saddle, Tube Clamp, and Knob into flash stand as shown. Tighten Knob to set height.



- 3)** Loosen (2) 3/8-16 bolts about 1/8" and install Flash Head onto saddle.
- 4)** Tighten both bolts once Flash Head is seated completely.  
*Tighten using 9/16 or 15mm wrench*



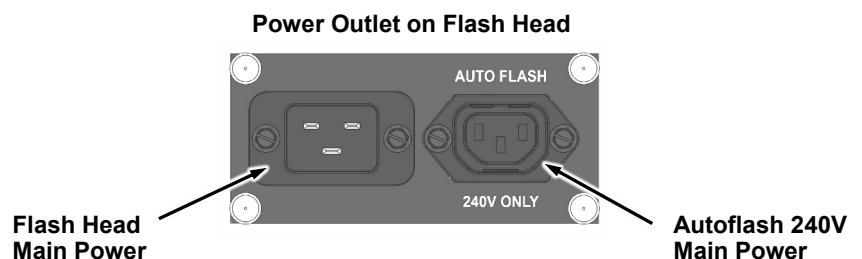
- 5)** Install Knob as shown on right. Knob is used to level the Flash Head.
- 6)** Install Flash Handles on each side.  
-(2) Flash Handles (1 each side)  
-(8) #8 Sheet metal screws.  
*Tighten using 1/4" nut driver or flat blade screw driver*



## — Power Cord

- 1)** Install the main power cord to the back of the Flash Head.

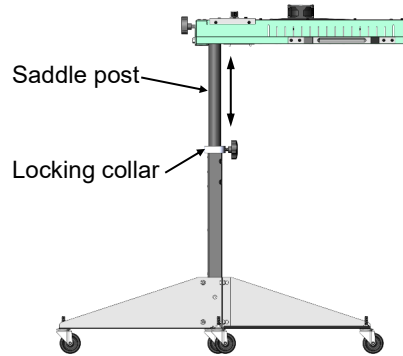
**NOTE:** If sold as a combo with an Autoflash 240 volt, install the Autoflash power cord to the back of the Flash Head as well.



## — Controls

### Heater Height Adjustment

To raise and lower the flash head, grasp the saddle post firmly, loosen the locking collar knob, adjust the height and retighten the knob.

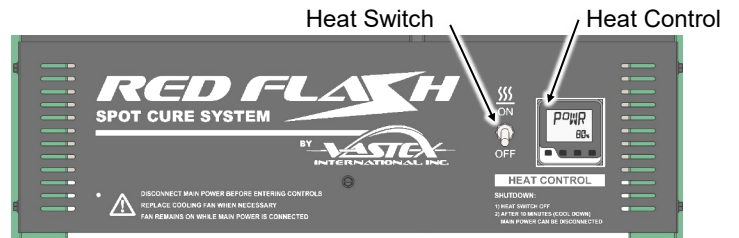


### Heat Control

The controller turns the power to the heater on and off to vary the temperature.

### Heat Switch

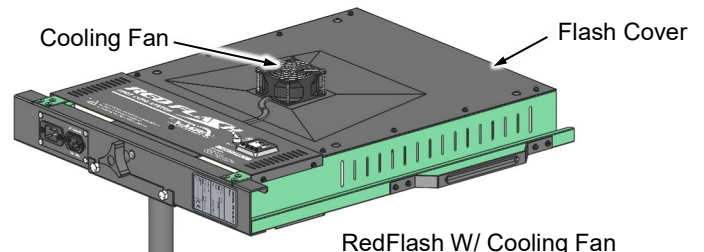
When the Heat Switch is set to the ON position the Heat Control display will turn on. At this time the heater will be on.



RedFlash control panel

### Cooling Fan

RedFlash Units are equipped with a cooling fan. Fan operates when the unit is plugged in. Do Not use flash unit if cooling fan is not operating. Replace fan immediately if NOT operational. Order p/n 04-02-052 replacement fan from Vastex International Inc.

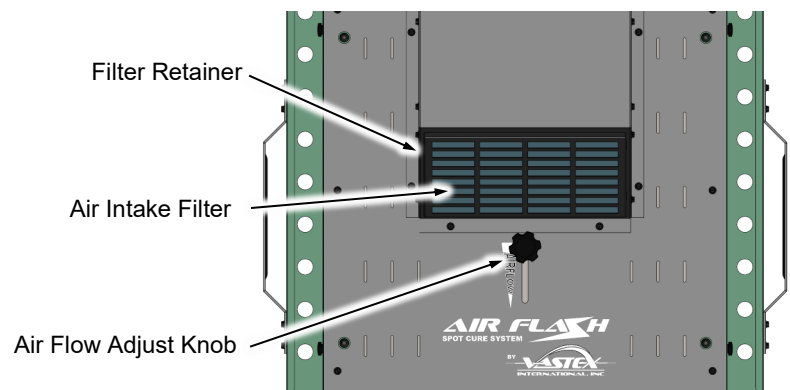


RedFlash W/ Cooling Fan  
Power Cord Omitted

## — Controls (AirFlash)

### Air Controls

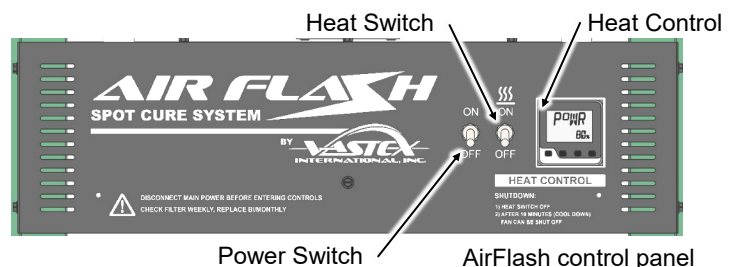
The Airflash blower runs when the Power Switch is on. The AirFlash air controls are operated using a single knob. Loosen and slide the air flow adjust knob to control the air flow through the heater. Adjust from “full on” to “off” (bypass) as needed. The air is also used to cool the flash unit; replace blower when necessary.



Clean the air intake filter regularly.  
Slide the filter retainer up to access the filter.

### Power Switch

When the Power Switch is set to the ON position the fan will start blowing air.



AirFlash control panel

## — Operation —



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The primary function for a flash cure, or spot heater is to partially cure the ink on a garment to allow the application of another coat or adjacent color. The ink should be just “skinned” over at the top, and **not fully cured**. Many inks will not properly bond to fully cured ink, so over flashing is just as bad, if not worse, than under flashing. A good temperature for flashing is about 180-200°F, (82-105°C).

## — Startup Procedure —


---

Be sure the RedFlash or AirFlash is plugged into a proper outlet, follow the electrical recommendations on page 4. The small fan on top of the RedFlash will run continuously when power is on. This is acceptable, you can shut your supply breaker off at the end of the shift if you prefer. It is best to not unplug your machine daily unless you are performing service to your machine.

- 1) Set the height over the material to be flashed. We recommend a minimum of 1” (25.4mm) and a maximum of 3” (76mm)
- 2) Check the position of the heater over your material, center the heater in both directions
- 3) **RedFlash:** Turn on the heat switch   
Or
- 4) **AirFlash:** Turn on the power switch, then the heat switch . The power switch must be on to operate the AirFlash
- 5) Using the ▲ and ▼ arrows, set the % of heat to the desired setting. 100% = fulling on, 50% = half heat. While many factors like material and ink types will dictate the proper setting, for plastisol and water based inks on T-shirts, we recommend starting with 90%.
- 6) Choose the time you flash based on the above recommendations in **Operation**. A good starting point is 10 seconds. Your pallet may heat up after 15-20 prints, allowing you to reduce the time.

## — Shutdown Procedure —

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- 1) Turn Heat Switch  to the OFF position
- 2) Wait for 10 minutes minimum
- 3) **RedFlash:** Shut off breaker at the end of every shift, if you prefer the cooling fan to turn off  
Or
- 4) **AirFlash:** Turn the Power Switch to the OFF position

## — Troubleshooting

---

### **Safe maintenance and troubleshooting:**

- Before beginning any maintenance or troubleshooting on your equipment, unplug your machine from its electrical outlet.
- The heat control and/or power switch should be switched off before plugging and/or unplugging the power cord.
- Allow time for the equipment to cool before attempting any service on the heater
- Do not remove any panels with the equipment powered on; any such service must be performed by qualified personnel only.
- If your machine appears to be operating abnormally and the troubleshooting charts below do not resolve your problem, shut your unit off, unplug it, and contact Vastex for further assistance.

### **In the event of a malfunction or breakdown:**

Shut off power to the equipment and unplug from electrical outlet. Then, following the troubleshooting charts below. If this does not resolve your issue, please contact Vastex for support.

Symptom	Possible Cause	Solution
No Heat	Is <b>OPI</b> displayed on the controller Is red light on relay working Is temp. controller percentage set to 0	Contact Vastex for assistance Contact Vastex for assistance Set the percentage
Fan/blower not running	Faulty fan/blower Check for debris in the fan blades/ squirrel cage Is the capacitor leaking oil	Replace fan/blower Clean the debris Contact Vastex for assistance
Heat on, cannot be controlled	Faulty temperature controller	Contact Vastex for assistance

**NOTE:** Vastex highly recommends a visual inspection of all electrical components and ensuring the electrical connections are tight before contacting tech support.

## — Maintenance

---

Your equipment is designed to provide a long service life with little maintenance required. Before using your machine at the beginning of each work shift, check that its fan is working. Do not operate if the fan/blower has failed.

On AirFlash models:

- Clean the air filter regularly (see page 8).

On all models:

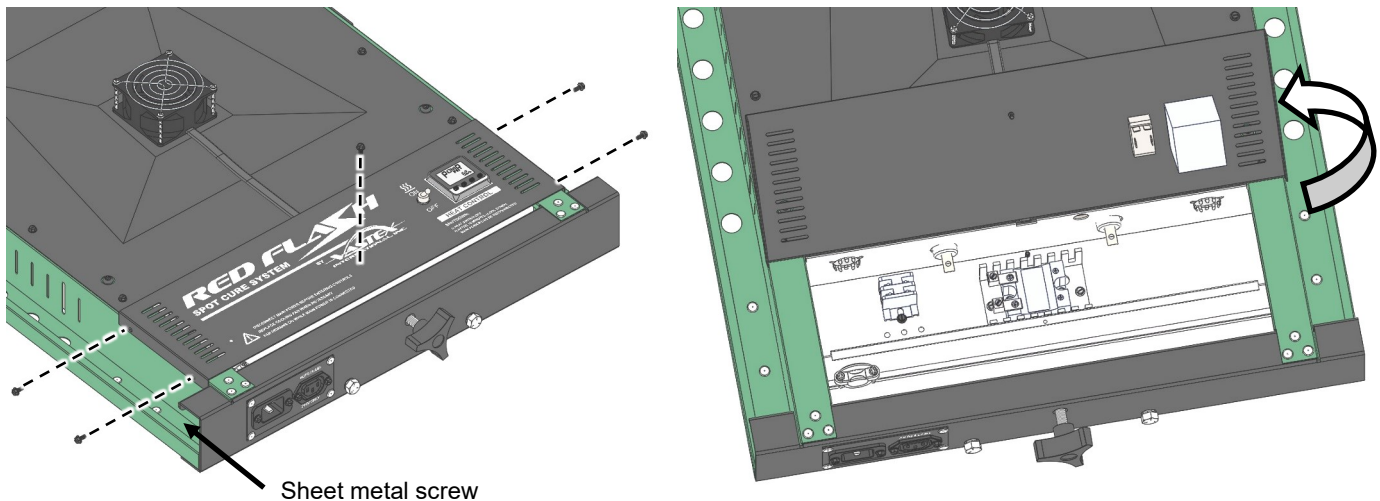
- Periodically check the heater face and power cord to ensure that neither has become damaged.
- Periodically verify correct functioning of all controls.
- To prevent component damage check and retighten all electrical connections after 2nd week of operations and every 3 months thereafter.

## Cooling Fan Replacement:

- 1) Unplug or switch off power at the main disconnect.
- 2) Remove plug from cooling fan.
- 3) Remove Flash Cover mounting screws.
- 4) Remove failed fan, install new fan, airflow direction is down.
- 5) Transfer ground wire and guard onto new fan.
- 6) Reverse step 1-3 to complete reassemble.

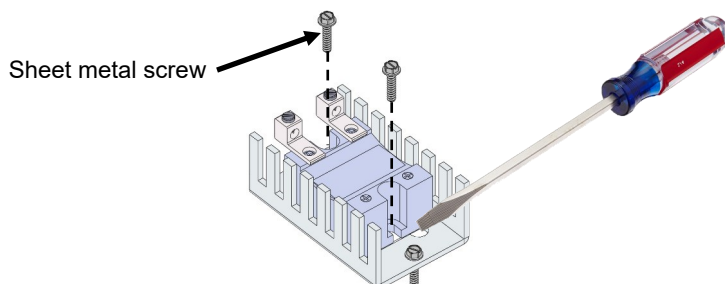
## Heat Controller and Switch Replacement:

- 1) Unplug or switch off power at the main disconnect.
- 2) Remove (5) sheet metal screws on the control face.
- 3) Flip over the control face.
- 4) Make sure to take a picture or mark all the wires before disconnecting them.
- 5) To remove a Switch, remove the nut holding the switch in with a 9/16 wrench.
- 6) Install new switch and remake all connections.
- 7) To remove heat controller, remove the plastic hold down clip.
- 8) Install new heat controller and remake all connections.



## Relay Replacement:

- 1) Unplug or switch off power at the main disconnect.
- 2) Make sure to take a picture or mark all the wires before disconnecting them.
- 3) Remove (2) sheet metal screws holding down the relay.
- 4) Use a flat blade screwdriver to remove relay. There is a small cutout in the heatsink. Make sure to securely hold down the heatsink when removing the relay.
- 5) Install the new relay by removing the plastic film on the bottom of the heat pad.
- 6) Place relay in the same position as the old one. NOTE, the heat pad is extremely sticky.
- 7) Re install the (2) sheet metal screws and all the connections.



## Blower Replacement:

- 1) Unplug or switch off power at the main disconnect.
- 2) Remove the knob and (6) sheet metal screws to remove the cover off the AirFlash
- 3) Remove (6) sheet metal screws holding the blower mount to the heater.
- 4) Remove (4) nuts and bolts holding the blower to the mount.
- 5) Replace blower.
- 6) Reassemble in the reverse order.

