



# RedFlash, AirFlash, AutoFlash Manual

## Assembly and Operating Instructions



This manual contains the following documents.

- **Flash Model Overview**
- **Electrical Requirements**
- **Stand Components**
- **Assembly and Installation**
- **Safety Information**
- **Operation and Controls**
- **AutoFlash Diagram and Installation**
- **AutoFlash Operations and Controls**
- **Troubleshooting**
- **Wiring diagrams**
- **01-00-005      Warranty**
- **01-00-006      Warranty Summary Sheet**
- **01-00-015      Terms and Conditions**

**Vastex International, Inc.**  
1032 N. Irving St.  
Allentown, Pa. 18109 USA  
Phone# 610 434-6004  
Fax# 610 434-6607  
Web Site [www.vastex.com](http://www.vastex.com)  
E-Mail [info@vastex.com](mailto:info@vastex.com)

# Flash Model Overview



R-1824-240 (shown on Standard stand)

## Vastex RedFlash



R-18-120  
R-18-240 (shown on SHHD stand)  
R-18-240-HO



RA-18  
RA-18-240 (shown on SHHD stand)

## Vastex AirFlash



RA-1824-240 (shown on SHHD stand)

## Vastex AutoFlash



AF-120  
AF-240 (shown on Standard stand)



AF-240 (shown on SHHD stand)

# Electrical components and requirements

## 18" x 18" RedFlash



**R-18-120:** 120 Volts, 16.5 Amps, 50/60 Hz, 2000 Watts.  
Supplied with a required NEMA 5-20P Plug.

**R-18-240:** 240 Volts, 11 Amps, 50/60 Hz, 2600 Watts.  
Supplied with a required NEMA 6-15P Plug.

**R-18-240-HO:** 240 Volts, 16.5 Amps, 50/60 Hz, 3500 Watts  
Supplied with a required NEMA 6-20P Plug.

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

## 18" x 24" RedFlash



**R-1824-240:** 240 Volts, 16.5 Amps, 50/60 Hz, 3500 Watts  
Supplied with a required NEMA 6-20P Plug.

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

## 18" x 18" AirFlash



**RA-18:** 120 Volts, 16.5 Amps, 50/60 Hz, 2000 Watts  
Supplied with a required NEMA 5-20P Plug.

**RA-18-240:** 240 volts, 17.5 Amps, 50/60 Hz 3500 Watts  
Supplied with a required NEMA 6-20P Plug.

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

## 18" x 24" AirFlash



**RA-1824:** 240 Volts, 22 Amps, 50/60 Hz, 4300 Watts  
Supplied with a required NEMA 6-30P Plug.

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

## AutoFlash Unit



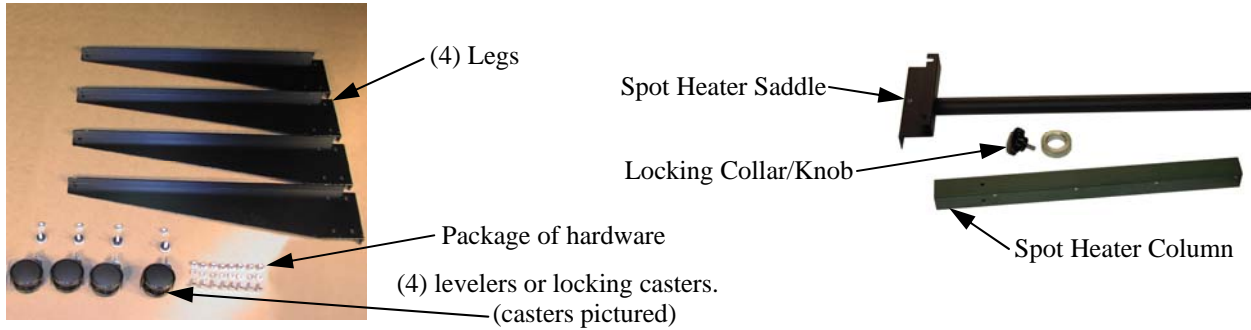
**AF-120:** 120 Volts, 1 Amp  
Supplied with required NEMA 5-15P plug.

**AF-240:** 240 Volts, .5 Amps  
Supplied with required NEMA 6-15P plug.

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

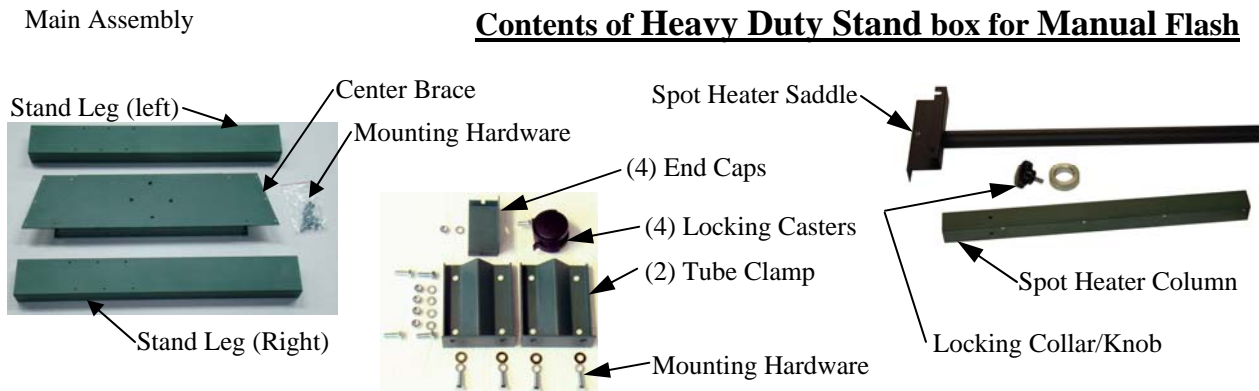
# Stand components

## Contents of Standard Stand box for Manual Flash



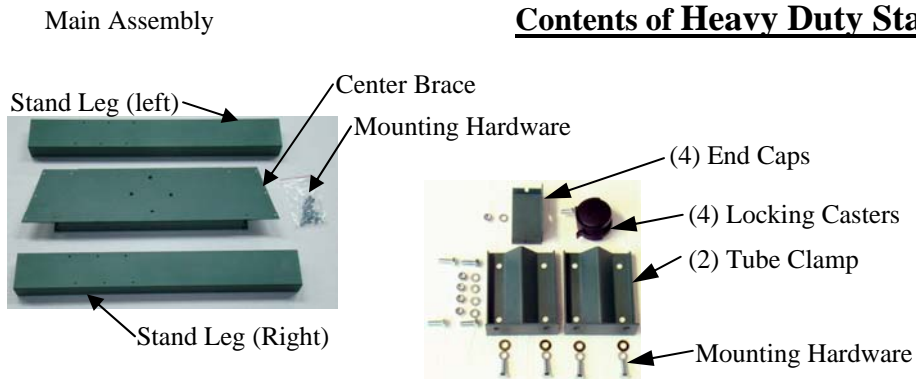
**SH-STAND-WS**

## Contents of Heavy Duty Stand box for Manual Flash



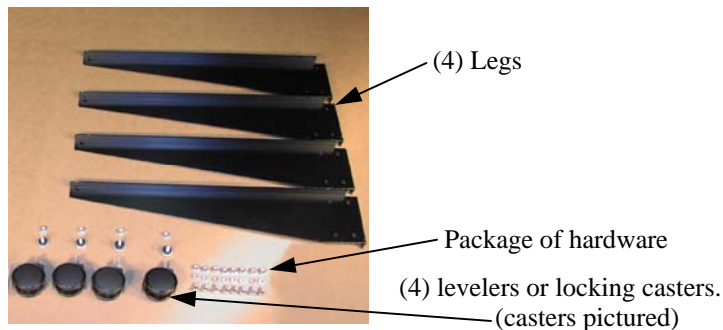
**SHHD-STAND-M**

## Contents of Heavy Duty Stand box for AutoFlash



**SHHD-STAND**

## Contents of Standard Stand box for AutoFlash



**SH-LEGAF**

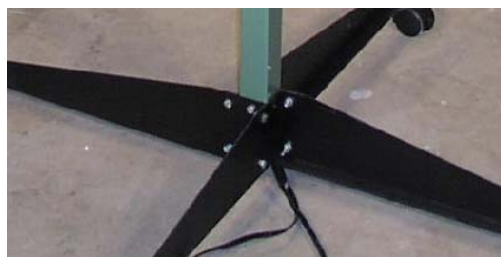
# Stand Assembly Instructions

## Standard Stand Assembly

### **Tools Required:**

7/16 Wrench

1) Position the legs as shown below and bolt together with 1/4" bolts, lock washers, and nuts. Do not fully tighten at this time. Attach casters to each leg with 1/4" lock washers and nuts.



2) Slide the square tube into the stand until it is flush with the bottom then tighten all bolts.

### **Tools Required:**

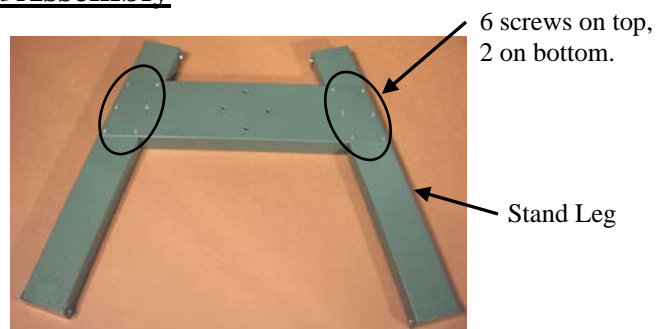
3/8, 9/16", 3/4" Wrenches

Flat screw driver OR 3/8" nut driver

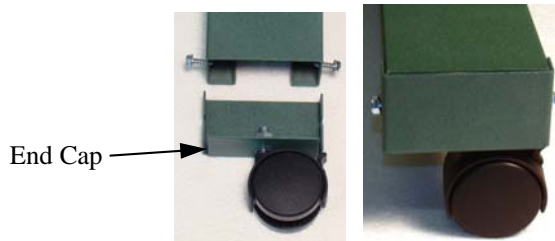
Channel Lock Pliers

## Heavy Duty Stand Assembly

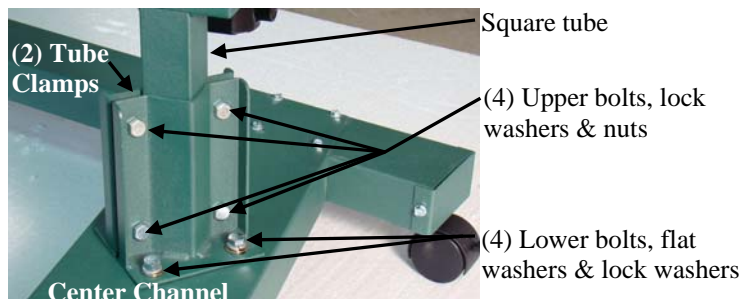
1) The Main Assembly must be screwed together using (20) sheet metal screws with a flat blade screw driver or 3/8" nut driver. There are 8 screws that need to be installed on each Stand Leg, 6 on the top, and 2 on the bottom. Assemble the stand as shown to the right and tighten all screws well.



2) Remove the End Caps. Install a wheel in each End Cap with a 3/8" nut. Re-install each End Cap onto the stand.



3) Attach the Tube Clamps onto the Center Channel with 3/8" bolts, lock washers, and nuts. Do not tighten the bolts. Install the four upper bolts, lock washers, and nuts. Do not tighten these bolts. Insert the square tube into the tube clamps. It must be bottomed out against the center channel. Tighten all the upper bolts first, followed by all the lower bolts.



# Assembly and Installation

## Head installation on saddle

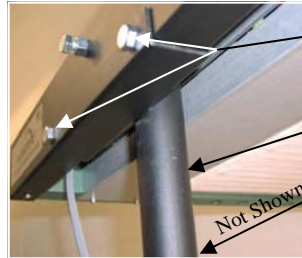
**Tools Required:**  
1/4, 9/16 Wrench

Care must be taken to avoid damage to the heater face.  
Do Not operate if the heater face or power cord is damaged.

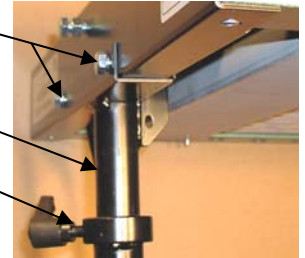
**1)** Uncoil the power cord and loosen the two mounting bolts about 1/8".



**2)** Slide the locking collar onto the saddle tube and insert saddle into the column.



**Manual Flash Head Mount**



**AutoFlash Head Mount**

**3)** Insert the mounting bolts of the flash head into the slots of the saddle. When fully inserted into the saddle the head will be supported, tighten the mounting bolts.

**4)** Loosen the jam nut and turn the bolt to level the head over the pallet. Tighten the jam nut after leveling.



**5)** Install the handles on each side of the flash unit using the four self tapping screws. Do not over tighten. Handles not recommended on an AutoFlash unit.



## Safety Information

- 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 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.

# Operation & Controls

Read the safety information before operating the flash unit.

## Heating Operation

The REDFLASH will effectively dry all types of plas-tisols and thermoset inks. Set the control to position 5 and a distance of 2-4" from the face of the heater to the surface of the garment. The normal dwell time under the heater is the time you spend printing another gar-ment. Nevertheless, 6-10 seconds is the time needed to effectively "skin-over" the ink deposit. Adjustments to the temperature control and distance may have to be made for the specific application. You should not try to final cure with a spot heater due to the fact that match-ing the precise time in heat of a conveyor will be diffi-cult and can cause damage to your pallet. (*Caution should be taken when operating the flash unit. The heater surface is very hot. Never leave the flash unit on and left unattended.*)

## Controls

### -Heat Controller

The control has positions L-2-3-4-5-6 and High. The controller turns the power to the heater on and off to vary the temperature. The higher the number on the controller the longer the on cycle and shorter the off cycle is. The High position keeps the power on constantly. Two pilot lights are provided, a power on and control output.

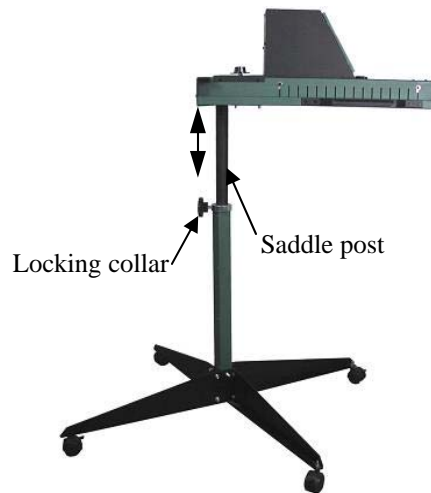
### -Power on

This RED light is wired to the controller. It will illu-minate when the control is turned on, even if the con-troller has failed.

### -Control output light

The green pilot light is wired to the output side of the controller. When the controller is sending power to the heater, the pilot light will illuminate. This light will cycle on and off with the heater power.

## Heater height adjustment



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



RedFlash control panel

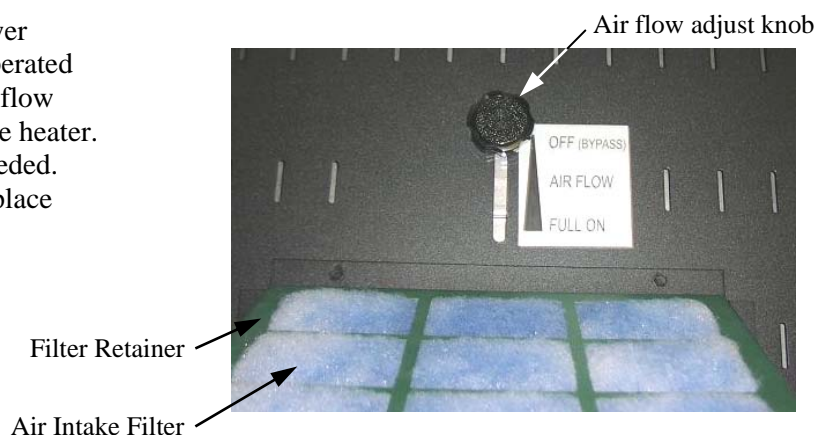


AirFlash control panel

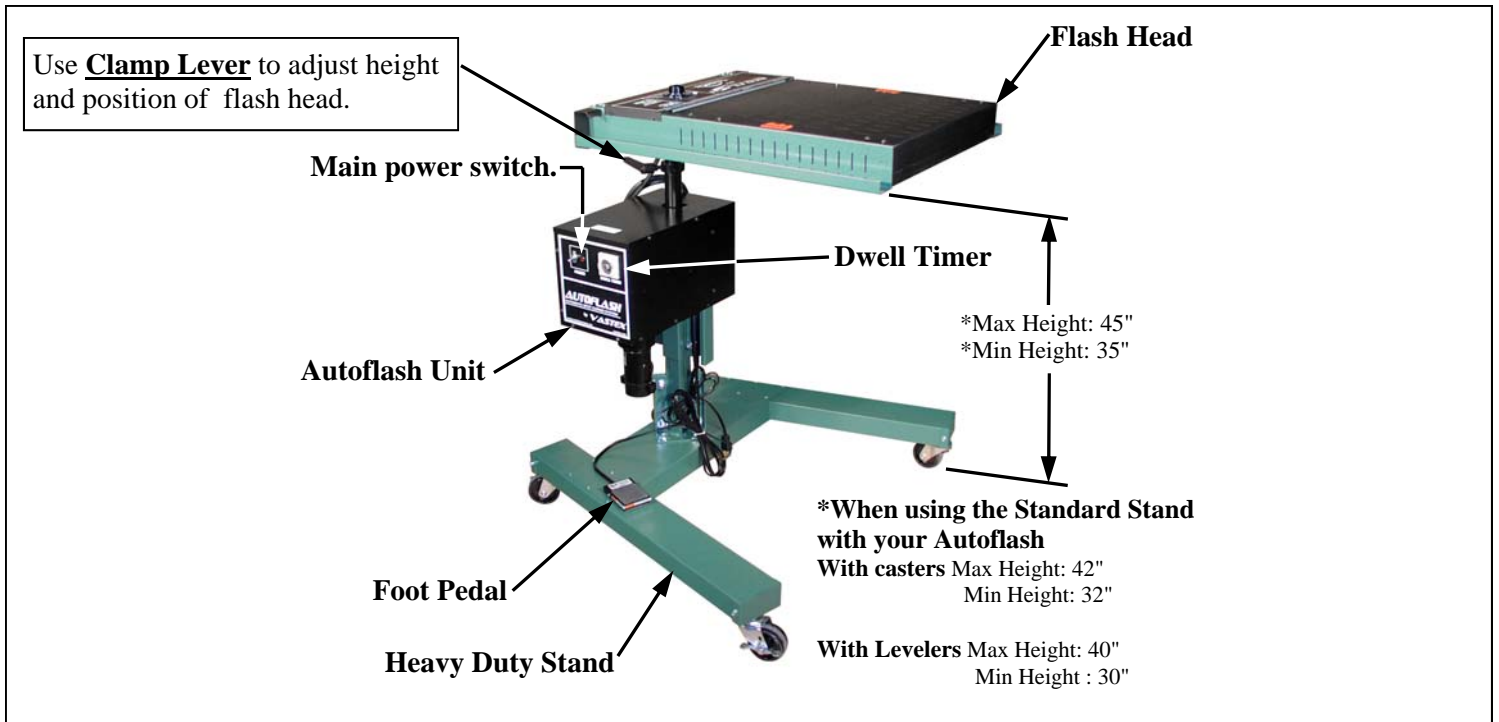
## Air Controls (AirFlash Only)

The Airflash blower runs when the main 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.

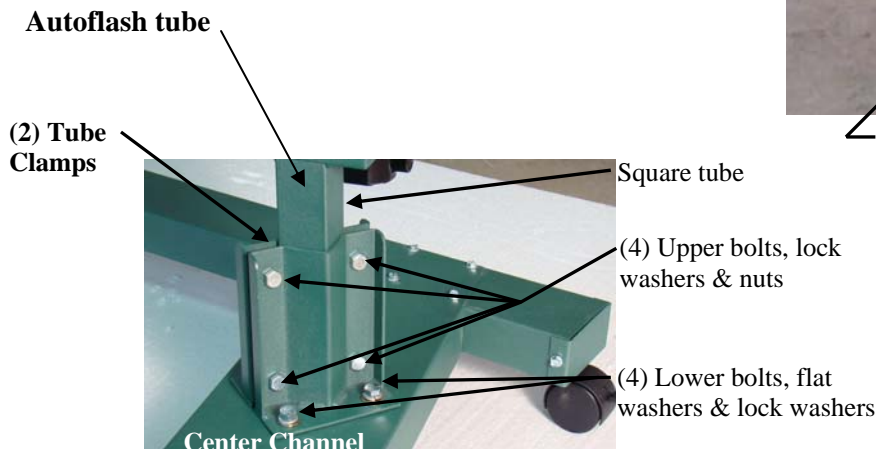


# Autoflash Diagram and Installation



## Installing Autoflash Unit on to the HD Stand

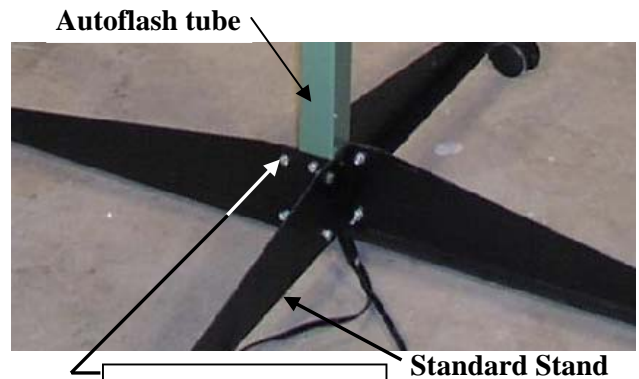
A 9/16" wrench is required for this step. Attach the Tube Clamps onto the Center Channel with four bolts flat washers and lock washers. Do not tighten the bolts. Install four bolts through the tube clamps and four lock washers and nuts on the other side. Do not tighten these bolts. Insert the Autoflash support tube, as shown below, between the Tube Clamps, it must be bottomed out against the center channel. Tighten all the upper bolts first, followed by all the lower bolts.



## Installing Autoflash Unit on to the Standard Stand.

A 7/16 wrench is required for this step.

Have the bolts in the stand loose to start. Slide the Autoflash tube into the stand until it is flush with the bottom then tighten all bolts.



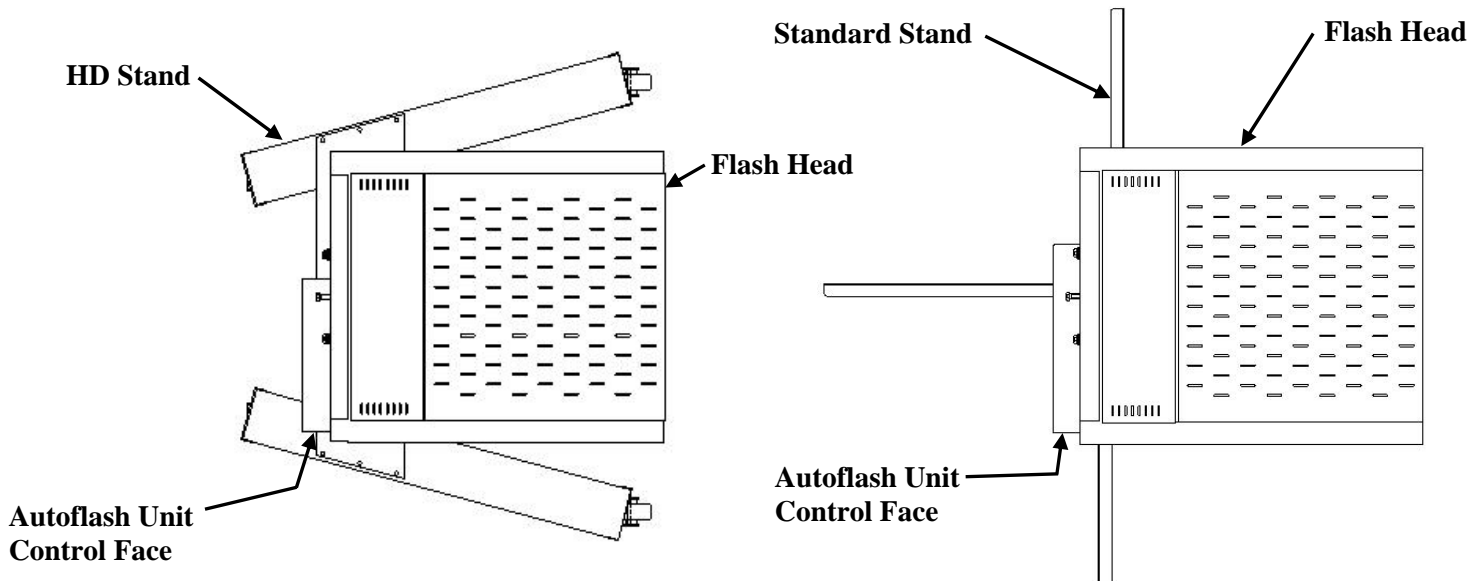
Be sure to tighten all bolts in the stand after the Autoflash Unit is installed.

# Operation & Controls

## Setting Home/Extended positions on the Autoflash Unit

Plug your machine in. Set the dwell timer to greater than 15 seconds. Make sure the clamp lever is loose and press the foot pedal. This brings the Autoflash to the extended position. Once the Autoflash is in this extended position, switch the machine off using the main power switch. This will stop the machine in the extended position.

While in the extended position, rotate the flash head until it is aligned as shown below and lock the clamp lever. Turn on the main power switch and let the machine cycle back to home position. The proper orientation of the flash unit to the control box is set.



**Autoflash shown in extended position (top view)**

### **Final result:**

The Drawing on the left shows the flash on a heavy duty stand in the **Extended Position**.

The Drawing on the right shows the flash on a standard stand in the **Extended Position**.

*Do Not position the flash head over the control box when in the home position. Excessive heat can damage the electrical components.*

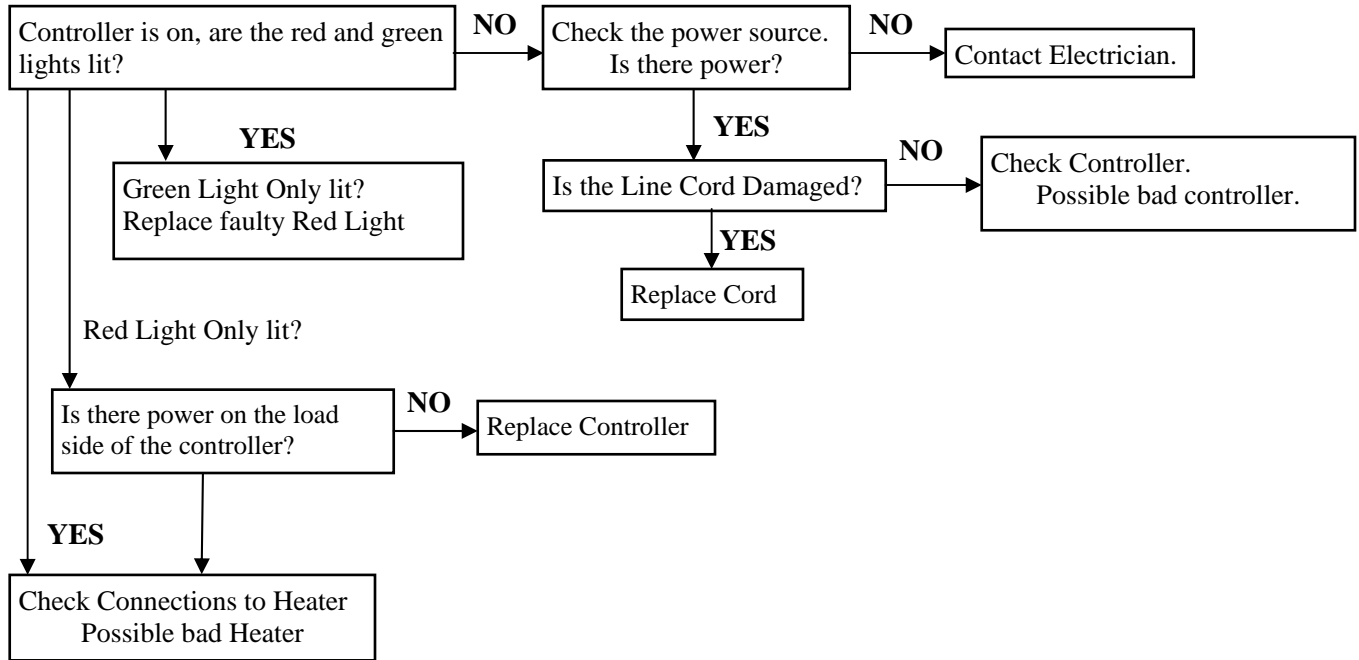
## Operation

Position the Flash Unit in a clear area on the shop floor. Plug in the Autoflash, set the timer to several seconds, and activate the flash unit by foot pedal. The home position is the full retracted position, away from the pallet. The timer sets the dwell time of the flash unit over the pallet. The timer allows for 0 to 30 seconds dwell time over the pallet.

The extended position of the flash unit must match the drawing above. Use the clamp lever and adjust the heater to the appropriate height over the pallet, lock casters. *Maintain the proper orientation of the flash unit to the control box when adjusting the height.*

# Flash Troubleshooting

No heat from emitter



## Vastex E-mail assistance

Purchasing & Product Info:

**sales@vastex.com**

Electrical Support:

**stech@vastex.com**

Tech Support, Mechanical Setup, and Operation

**techsupport@vastex.com**

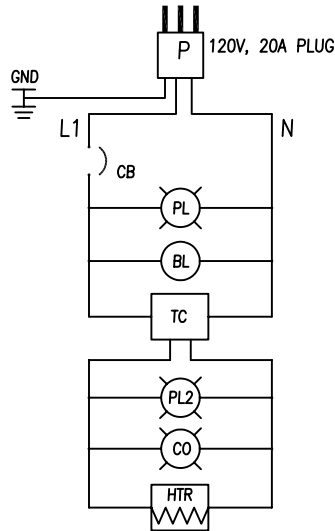
Screen Printing Issues & Support:

**printech@vastex.com**



## 18" X 18" AIRFLASH-120V

F.L.A. @ 120V = 16.5 AMPS



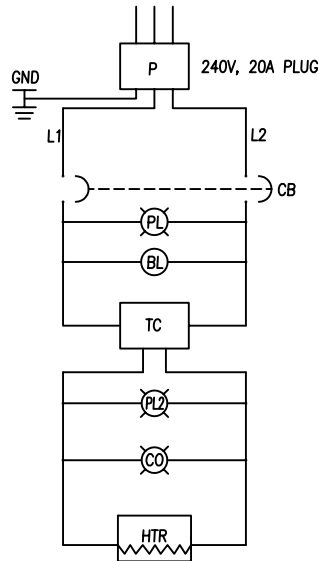
### LEGEND

DISCRIPTION	PART NO.
BL - 120V BLOWER	04-02-038
CB - 120V SPST CIRCUIT BREAKER SWITCH	04-01-054
CO - CONTROL OUTPUT GREEN LIGHT	04-03-022
HTR - 120V, 2000 WATT HEATER WITH HOLES	H-18-120-SA
P - 120V POWER CORD NEMA 5-20P	04-03-014
PL - 120-250V MAIN RED POWER LIGHT	04-03-021
PL2 - 120-250V TC RED POWER LIGHT	04-03-021
TC - CONTROL RS-120	04-01-008

**VASTEX** ALBERTVILLE, TN, USA  
Model # RA-18  
DWG # 02-03-025  
11/18/2008

## 18" X 18" AIRFLASH-240V

F.L.A. @ 240V = 17.5 AMPS



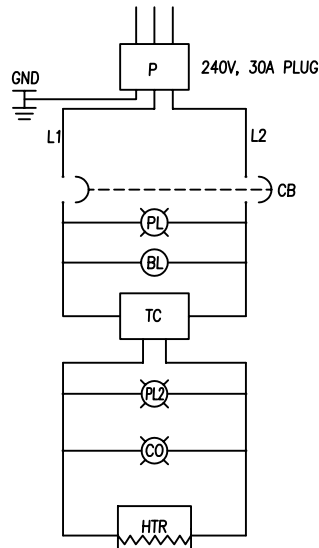
### LEGEND

DESCRIPTION	PART NO.
BL - 240V BLOWER	04-02-037
CB - 240V DPST CIR. BKR. SWITCH	04-01-056
CO - 120-250V GREEN CONTROL OUTPUT LIGHT	04-03-022
HTR - 240V, 3500W HEATER WITH HOLES	H-18-3500-240-S
P - 240V POWER CORD NEMA 6-20P	04-03-127
PL - 250V MAIN RED POWER LIGHT	04-03-021
PL2 - 250V TC RED POWER LIGHT	04-03-021
TC - RS 240V TEMP CONTROLLER	04-01-009

**VASTEX** ALBERTVILLE, TN, USA  
Model # RA-18-240  
DWG # 02-03-026  
11/16/2008

## 18" X 24" AIRFLASH

F.L.A. @ 240V = 22 AMPS

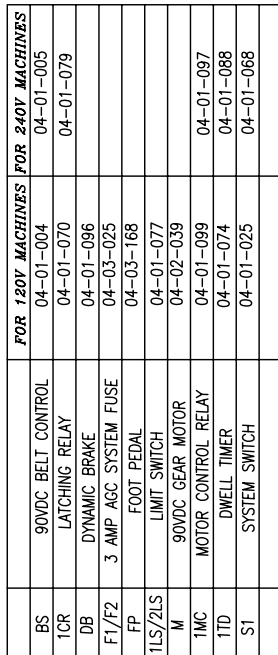


### LEGEND

DESCRIPTION	PART NO.
BL - 240V BLOWER	04-02-037
CB - 240V DPST CIR. BKR. SWITCH	04-01-056
CO - 120-250V GREEN CONTROL OUTPUT LIGHT	04-03-022
HTR - 240V, 4300W HEATER WITH HOLES	H-1824-4300-240-S
P - PLUG, 30A TWIST LOCK L6-30P	04-03-185
PL - 250V MAIN RED POWER LIGHT	04-03-021
PL2 - 250V TC RED POWER LIGHT	04-03-021
TC - RS 240V TEMP CONTROLLER	04-01-009

**VASTEX** ALBERTVILLE, TN, USA  
Model # RA-1824  
DWG # 02-03-024  
11/18/2008

## 02-03-023

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# **Vastex Warranty**

Doc#01-00-005B Revised 10/15/07

(1.) Vastex, hereinafter referred to as “seller” warrants only to its original “purchaser”, who holds a copy of the original invoice and is the original end user of the equipment in question, its new equipment against defects in materials or workmanship on a pro-rated basis. Warranty period begins from date of shipment to the buyer and will only apply to customers paid in full. Warranty periods are as follows: one (1) year for E-1000, and V-1000, three (3) years for all other equipment (including F-Flash), ten (10) years for infrared heaters (excluding F-Flash) installed by Vastex in a new dryer, three (3) years for replacement infrared heaters, and one (1) year for replacement parts. Rubber blankets, light bulbs and glass on exposure units are particularly subject to wear while in use. Wear is not covered by this warranty but as stated above only manufacturers defects are covered. All sales made through Vastex dealers must be certified by that dealer before a warranty replacement is issued.

**(2.) This warranty is expressly contingent upon the buyer delivering to seller, at the address below, with all transportation charges prepaid, the part or parts claimed to be defective within the above mentioned warranty periods stated in paragraph one. The defective part or parts will be repaired or replaced at the discretion of Vastex International, Inc. If the equipment in question is less than one (1) year old, it will be shipped to the customer at no charge, with an RGA issued by Vastex for the defective part. The defective part must be shipped back to Vastex freight prepaid within 30 days or the account will be billed. If the equipment is more than a year old, the part will be shipped after we receive the defective part. If it's necessary to expedite the movement of parts and to minimize down time to the buyer, the replacement part shall be supplied on a C.O.D. basis. If testing and analysis of said part by the seller or its supplier discloses that said part is defective, the cost of said part will be refunded to the buyer on a prorated basis.**

(3.) Except as otherwise provided herein, the equipment is being sold “as-is”. Final determination of the suitability of the equipment for the use contemplated by the buyer, is the sole responsibility of buyer, and seller shall have no responsibility in connection with the suitability.

(4.) All warranties implied by law, including the implied warranties of merchantability and fitness are hereby limited to workmanship and defective parts to a warranty period stated in paragraph one. The express warranty and remedies contained herein and such implied limited warranties are made solely to the sole warranties and remedies and are in lieu of all other warranties, guarantees, agreements, and other liabilities, whether express or implied, and all other remedies for breach of warranty or any other liability of seller, in no event shall seller be liable for consequential damages.

No person, agent, distributor, or service representative is authorized to change, modify or extend the terms hereof in any manner whatsoever.

These terms and conditions are an essential part of the transaction between the parties and constitute the entire agreement between them with respect to the same.

Some states do not allow limitation on how long an implied warranty lasts of the exclusion or limitation of incidental, or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Infrared heaters are the only replacement parts covered for a period of (3) years from date of shipment and contingent to receipt of payment in full.

Electrical components can not be returned once installed unless proven defective.

Please refer to doc. 01-01-006 for warranty implementation help.

Please refer to doc. 01-00-015 for specific terms and conditions of sale and the limited warranty.

Please refer to doc. 01-00-017 for V-2000HD printer warranty.

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# VASTEX WARRANTY IMPLEMENTATION SHEET

Please read this document in order to fully understand the warranty.

Doc.# 01-00-006

Your new Vastex equipment is protected against \*manufacturers' defects by our warranty, completely explained in doc# 01-00-017 for the V2000-HD series manual printer and in doc# 01-00-005 for all other Vastex manufactured equipment. Please refer to these documents for the \*\*warranty term and specific concerns about the warranty. The following are some important facts and requirements for the proper implementation of the warranty.

1.0 Everything is covered!

2.0 \*\*Warranty Term is defined as:

Ship date from VASTEX to the date the item in question is returned to VASTEX for inspection and repair.

3.0 \*Manufacturers defects are defined as:

Parts determined to be defective in workmanship which will lead up to a premature failure. The determination will be made only by the manufacturer of the item in question.

4.0 To take advantage of the warranty the following steps must be taken:

- 4.1 The equipment must be paid for in full.
- 4.2 The item in question must be shipped to VASTEX for evaluation with all shipping costs incurred by the buyer.
- 4.3 If the item is deemed as a manufacturer's defect it will be repaired or replaced within 2 business days from the time received. The shipping cost back to the customer located in the continental United States will be paid by VASTEX if a warranty item.
- 4.4 **If the item in question must be replaced immediately and is more than a year old, it will have to be purchased at list price and will be shipped COD. A pro-rated credit will be given promptly if the returned item is a valid manufacturer's defect.**
- 4.5 If the equipment was shipped less than a year before the date of the service call and a technician confirms the part needed for repair, the replacement will be shipped before the replacement is shipped back. An RGA will be issued and must accompany the old part to VASTEX within 30 days or the account will be billed.

5.0 Important facts about the condition of shipped equipment:

- 5.1 Dryers are partially assembled with the belts tracked and the machine run at full temperature for a min. of 1 ½ hours.
- 5.2 Printers are partially assembled, inspected, and adjusted for all heads down prior to partial disassembly and packing.
- 5.3 Exposing units are fully assembled and tested with the maximum screen size for vacuum integrity, timer operation and light output.

6.0 This document is in addition to the standard warranty and only helps the customer understand how to take advantage of the warranty. In no way does this document override the standard warranty or the terms and conditions of sale and the limited warranty doc# 01-00-015.

Please see doc# 01-00-015 for specific terms and conditions of sale and the limited warranty

VASTEX  
INTERNATIONAL

1032 N. IRVING ST.  
ALLENTOWN PA. 18109 USA

**TERMS AND CONDITIONS OF SALE AND LIMITED WARRANTY Doc.#01-00-015**

1. Buyer's order will constitute an offer in accordance with the terms hereof and such offer, upon acknowledgment of Seller, will constitute the agreement between Buyer and Seller. Buyer's order after such acknowledgment by Seller will not be subject to cancellation, change or reduction in amount, or suspension by Buyer of deliveries, unless prior to such action Buyer has obtained Seller's written consent. Notwithstanding anything to the contrary in Buyer's Purchase Order or other communications, the parties agree to be bound by these Terms and Conditions. Acceptance of the product by the Buyer shall be deemed to constitute unconditional acceptance of these Terms and Conditions.
2. Any of these terms, conditions and provisions of Buyer's order which are inconsistent with Seller's acknowledgment and these Terms and Conditions of Sale shall not be binding on the Seller and shall be considered not applicable to any sale so made. No waiver, alteration or modification of any of the provisions on either side of the document shall be binding upon Seller unless agreed to in writing by Seller.
3. (a) All prices are F.O.B. Seller's Plant and method of delivery and routing shall be at Seller's discretion, unless specifically otherwise stated herein. Notwithstanding any agreement to pay freight, delivery of products purchased hereunder to a common carrier or licensed trucker shall constitute delivery to Buyer and be determinative of the date and time of shipment and all risk of loss or damage in transit shall be borne by Buyer. If the Buyer fails to accept the goods from the common carrier or licensed trucker, the Seller shall be entitled to claim payment from the Buyer. Seller shall arrange for storage, the risk and the cost, including insurance costs, to be borne by the Buyer (and Buyer agrees to pay such amounts upon demand) except if the failure to accept delivery is due to any of the exceptions noted in Paragraph 4.  
  
(b) Terms of payment shall be as stated on invoice.
4. It is understood that deliveries will be made in accordance with Seller's regular production schedule. Every reasonable effort will be made to meet the Buyer's required delivery dates but Seller will not be liable for damages or be deemed to be in default by reason of any failure to deliver or delay in delivery due to any preference, priority, allocation or allotment order issued by the Government, whether Federal, State or local, or causes beyond its control including but not limited to, Acts of God or a public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, strikes, lockouts, freight embargoes, severe weather, unavailability of materials or shipping space, delays of carriers or suppliers or delays of any subcontractors. Should delay in delivery be caused by any of the circumstances mentioned in this paragraph, such extension of the delivery period shall be granted as is reasonable under the circumstances of the case. Should delay be caused by an event not specifically mentioned in this paragraph, damages will be limited to cancellation of the purchase order without penalty, and refund of any monies deposited or prepaid on the purchase order with no liability for any consequential or incidental damages.
5. Seller reserves the right to increase the prices prior to Seller's acceptance of order and/or after expiration of any price quoted by Seller.
6. Unless otherwise stated in writing, Seller's prices do not include sales, excise, value-added or other taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, value-added or other tax applicable to the manufacture, sale, purchase or use of the products hereunder shall be paid by Buyer, or in lieu thereof, Buyer shall provide Seller with a valid tax exemption certificate acceptable to the taxing authorities.
7. Seller reserves the right, at any time, to revoke any credit extended to Buyer because of Buyer's failure to pay for any products when due or for any other reason deemed good and sufficient by Seller and in such event, all subsequent shipments shall be paid for prior to at delivery at Seller's option.
8. (a) SELLER'S LIABILITY SHALL BE LIMITED TO SELLER'S STATED SELLING PRICE PER UNIT OF ANY DEFECTIVE GOODS AND SHALL IN NO EVENT INCLUDE BUYER'S MANUFACTURING COSTS, LOST PROFITS, GOODWILL, OR ANY OTHER SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, ARISING OUT OF THE AGREEMENT, THIS CONTRACT, THE SALE OF THE PRODUCTS TO THE BUYER OR THE USE OR THE PERFORMANCE OF THE PRODUCTS. Seller may at its discretion repair, replace or give the Buyer credit (pro-rated) for such defective products.  
  
(b) Notwithstanding anything herein to the contrary, Seller shall have no liability for alleged defects with the products which are not specified in written notice from the Buyer to the Seller within thirty-six (36) months from the date of shipment of machines. Seller shall pass to Buyer any warranty received by Seller from the manufacturer of Limited Life Components, which in most cases is 12 to 18 months.  
  
(c) Seller shall have no liability under this Limited Warranty unless Buyer has paid in full for the products. Further, this Limited Warranty is expressly contingent on Buyer's delivery to Seller, all costs prepaid, the defective part(s) within thirty-six (36) months of shipment to Buyer, together with a written statement specifying the alleged defect(s). Any replacement part(s) shall be shipped to Buyer on a C.O.D. basis.  
  
(d) SELLER SPECIFICALLY EXCLUDES ALL WARRANTIES, EXPRESSED, IMPLIED OR OTHERWISE, EXCEPT AS STATED EXPLICITLY IN THESE TERMS AND CONDITIONS OF SALE. SELLER DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
9. The remedies herein reserved by Seller shall be cumulative and in addition to any other legal remedies. No waiver of a breach of any portion of this contract shall constitute a waiver of continuing or future breach of such provision or of any other provisions hereof.
10. These Terms and Conditions constitute the entire agreement of the parties. No amendments, changes, revisions or discharges hereof in whole or in part shall have any force or effect unless set forth in writing and signed by the parties hereto. This contract shall not be assignable by Buyer voluntarily by operation of law or otherwise without Seller's written consent.
11. This contract shall be governed and shall be construed according to the domestic laws of the Commonwealth of Pennsylvania.
12. Anything herein to the contrary notwithstanding, any action for alleged breach by Seller of the contract between the parties, including but not limited to any action for breach of the warranties herein set forth, shall be barred unless commenced by Buyer within one (1) year from the date such cause of action accrued.
13. This agreement shall inure to the benefit of and be binding upon the parties hereto, their respective successors and permitted assigns.
14. **All notices required by this contract to be given by either party shall be sent in writing or by facsimile and shall be addressed to the last known address of such other party. Notices shall be deemed to have been received on the fifth business day following deposit in the mail.**