



WORKHORSE PRODUCTS

PRECISION SCREEN PRINTING EQUIPMENT

Owner's Manual

Plug N Go Flash Unit



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Congratulations on your purchase of the Plug N Go Flash Unit.

Check the crate for damages. DO NOT accept the crate if there are any damages caused by improper handling during shipping. Immediately report any damages to the carrier and contact Workhorse Products at, 800-778-8779.

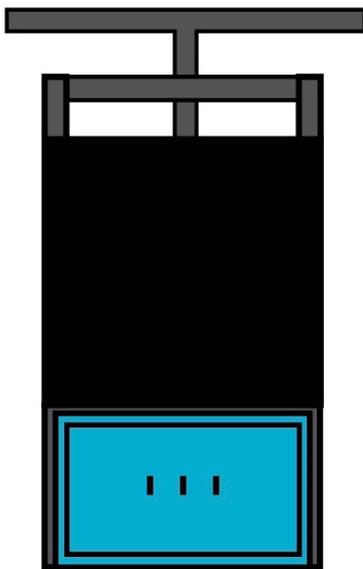
Be sure to inspect the crate contents IMMEDIATELY, while the carrier is still present. Even though our packaging has been designed to handle normal shipping conditions, we cannot foresee damages done by the carrier. We will not be responsible for damages that occur during transportation.

If there are damages immediately notify the driver, file a claim with the carrier and call Workhorse Products.

The Importance of the Owner's Manual:

The purpose of the Owner's Manual is to familiarize you with the parts and operations of the Plug N Go Flash Unit. There are step-by-step instructions to assemble the product, explanations of the product's key features, and additional information that will help with the maintenance of the product.

Specifications



XQF-1810/1820

Head Size: 16" x 18"

1-Phase: 220V, 55 amps

3-Phase: 220V, 32 amps



SQF-2115/2110

Head Size: 20" x 24"

1-Phase: 220V, 60 amps

3-Phase: 220V, 40 amps

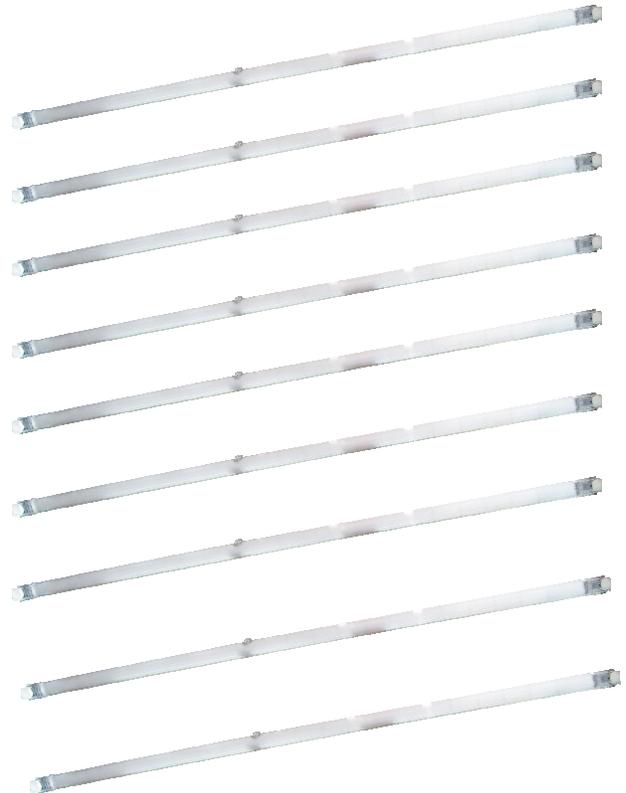


SQF-2105/2100

Head Size: 20" x 24"

1-Phase: 220V, 60 amps

3-Phase: 220V, 40 amps



QTY	Part	Part Number
1	Plug N Go	Pre-Assembled
9	Three-Phase Elements OR	10-22-012R (Pack of
8	Single-Phase Elements	Three)

Safety Procedures

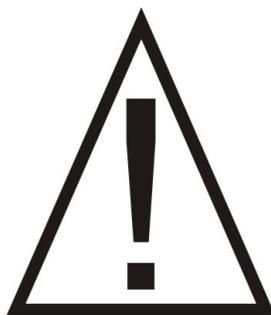


WARNING!

RISK OF ELECTRICAL SHOCK! Turn ALL power to unit OFF before service.
All service should be done by or under the supervision of a trained technician.



1. For your safety, do not store or use gasoline or other flammable vapors and liquids in the vicinity (at least three feet) of this or any other appliance.
2. Vent lines to the outdoors must be installed by a qualified HVAC engineer on all air exhaust and gas line components equipped with a vent fitting.
3. Proper grounding (a ground rod at the equipment footing), according to NEC requirements, must be provided for during electrical connection by a **QUALIFIED ELECTRICIAN**.
4. Never alter the internal wiring of this machine.
5. Never place any item other than the stock to be cured or under the flash heaters.
6. Once in position lock wheels before using the Plug N Go.
7. Keep all loose articles (including clothing, hair, jewelry, etc.) away from the moving and hot element tray.
8. Never leave the machine unattended when it is operating.
9. Do not perform maintenance on this machine until all power has been shut off at the flash **AND** at the incoming power circuit breaker. Also, disconnect the control cable leading to the machine.



THIS ELECTRIC FLASH CURE UNIT IS INTENDED SOLELY FOR THE PURPOSE OF CURING INK ON TO TEXTILE AND CUT GOODS. THIS FLASH IS NOT INTENDED FOR USE IN HEATING, CURING OR BAKING OF ANY OTHER MATERIALS WHATSOEVER. THIS FLASH IS INTENDED FOR IN-DOOR USE ONLY.

THE EXCLAMATION WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER OF IMPORTANT SAFETY PRECAUTIONS SHOP PERSONNEL SHOULD BE AWARE OF DURING OPERATION.

Step 1: Uncrating

1. The Plug N Go ships fully assembled. Remove the wooden outer shell and the wooden caps holding the legs in place. The flash is now accessible and can roll into place.



2. The box inside of the plastic wrapping contains the quartz heating elements. Handle the package with care, and don't touch the elements with bare hands. Use a clean cloth to handle the elements.

The S/O cable and plug ends are not included.



Step 2: Inserting the Quartz Elements

Tools needed:

- Clean Towel

Parts needed:

- Elements

The three-phase Plug N Go Flash has 9 elements, whereas the single-phase Plug N Go has 8 elements.

DO NOT handle the quartz elements with bare hands, because skin contains oils that contaminate the quartz tubes. Use a clean towel to insert the elements.

The sockets that hold the tubes are spring loaded. Insert the end of the tube into the socket and apply gentle pressure, just enough to insert the opposite end of the tube into its mating socket. Guarantee that every tube is making proper contact with the socket on each end.

The single-phase flash does have nine slots, but only eight quartz elements. Simply leave one slot empty, and it does not matter which one is chosen.

If the elements do become contaminated use a soft cloth and isopropyl rubbing alcohol to clean them. Never attempt to clean the lamps or any part of the flash with the power connected. **Make sure the flash is disconnected before any kind of maintenance is done to it.**



Step 3: Connecting the Power and Control

Tools needed:

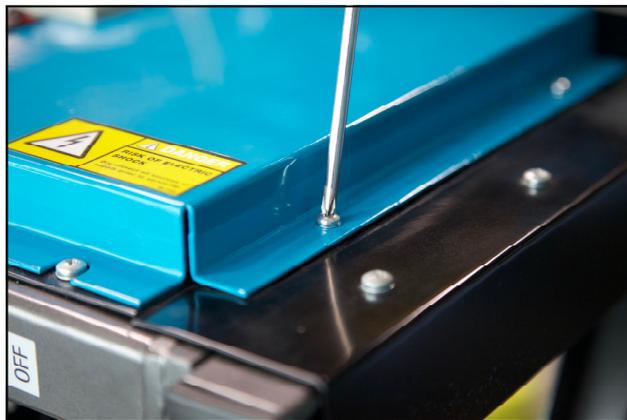
- Screw Driver

Parts needed:

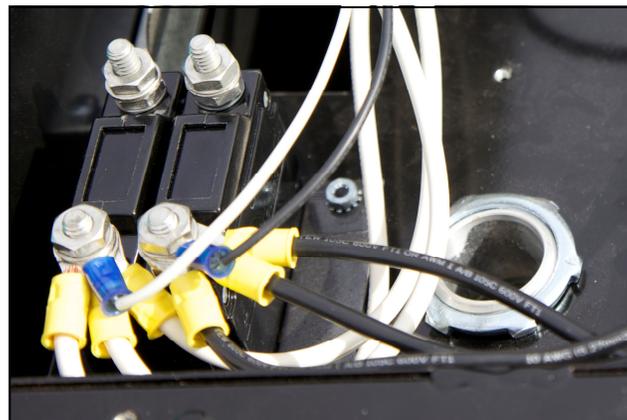
- S/O Cable
 - Plug Ends
-

1. The Plug N Go flash requires a power connection to be brought to the unit and hard wired directly to the breaker switch. A S/O cable and plug ends will be needed for these next steps, but they are not included with the product.

To begin, unscrew the eleven screws located on the edges of the teal control box. There are four on the bottom, two on each of the sides, and three on the top.



2. After removing the teal cover, notice the power cable access hole that is located on the right side of the flash (the side with the yellow warning label). Through this hole one end of the S/O cable connects to the phase connections.



3. The other end of the S/O cable attaches to the power source. It is highly recommended to use a ceiling plug end as the power source. This way the S/O cable connects to the ceiling over the center of the press and lays across the print head the flash is being used on. Using the a power source from the ceiling removes the dangers of having cables run along the ground.

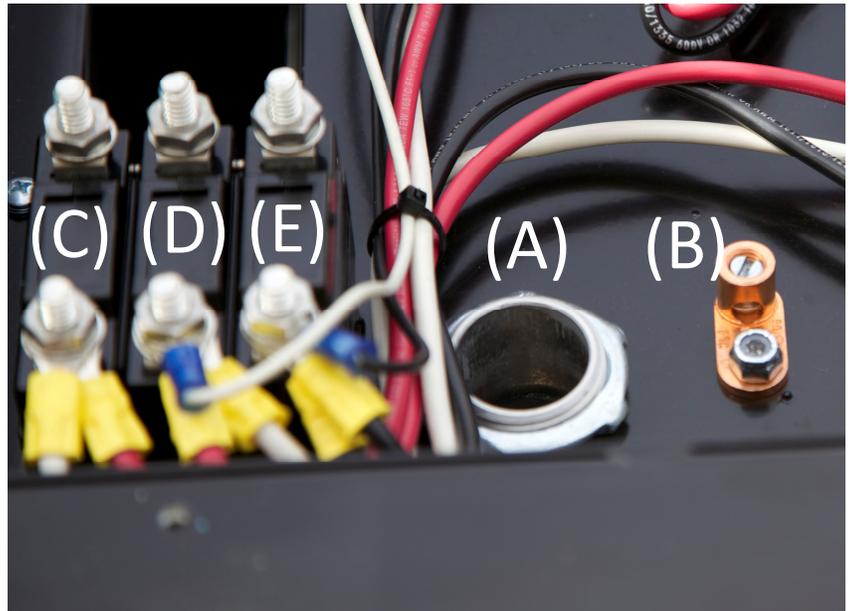


Step 3 (Cont.): Connecting the Power and Control

-
- | | |
|------------------------|-----------|
| (A) Power Cable Access | (C) Hot 1 |
| (B) Ground Lug | (D) Hot 2 |
| | (E) Hot 3 |
-

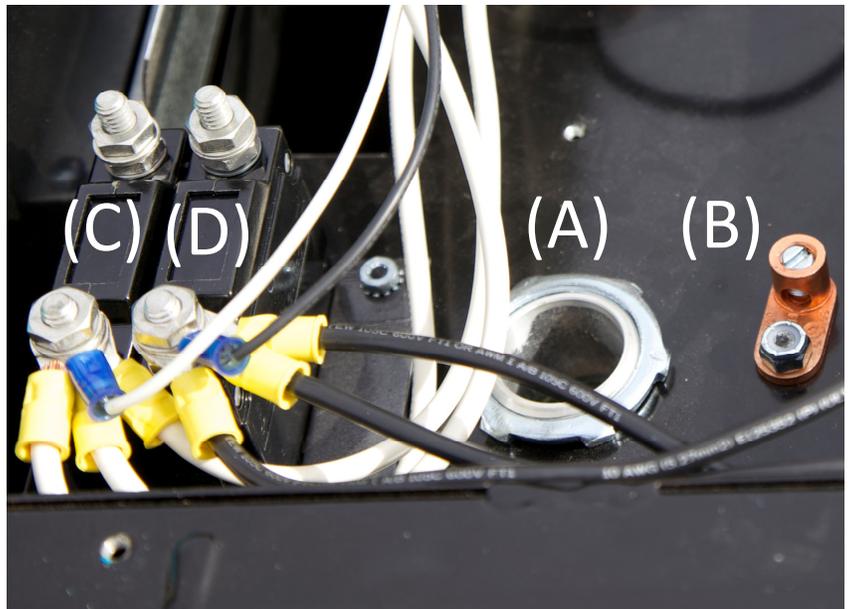
Three-Phase Connection

Bring the S/O cable up through the power access cable (A) from the bottom of the control box. The three-phase connection has four wires total, 3 hot wires and 1 earth ground wire. Connect the 3 hot wires to the open legs on the back of the circuit breaker, (C,D,E). Finally, connect the earth ground wire to the ground lug (B).

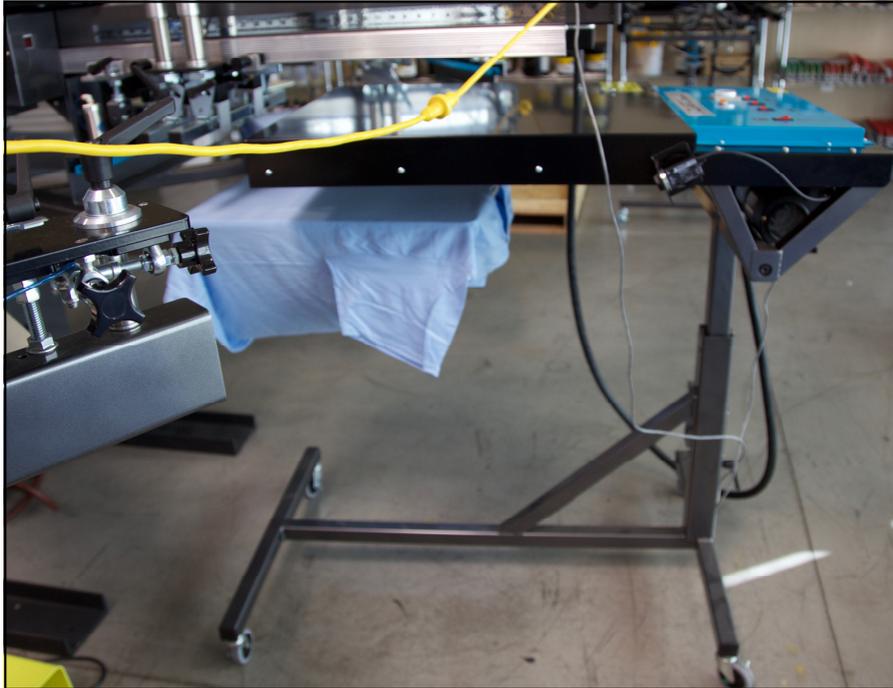


Single-Phase Connection

Bring the S/O cable up through the power access cable (A) from the bottom of the control box. The single-phase connection has three wires total, which are: 2 hot wires and 1 earth ground wire. Connect the 2 hot wires to the open legs on the back of the circuit breaker, (C,D). Finally, connect the earth ground wire to the ground lug (B).



Universal Plug N Go



The Universal Plug N Go looks exactly like the Plug N Go's that work specifically for the Sabre Series and the Freedom Express. The Universal Plug N Go can work with any other type of press on the market, including manual presses. There are only two things that separate the two different types of Plug N Go's:



1. Photo Cell Sensor

The sensor recognizes when the pallets index and triggers the flash.



2. Manual Timer

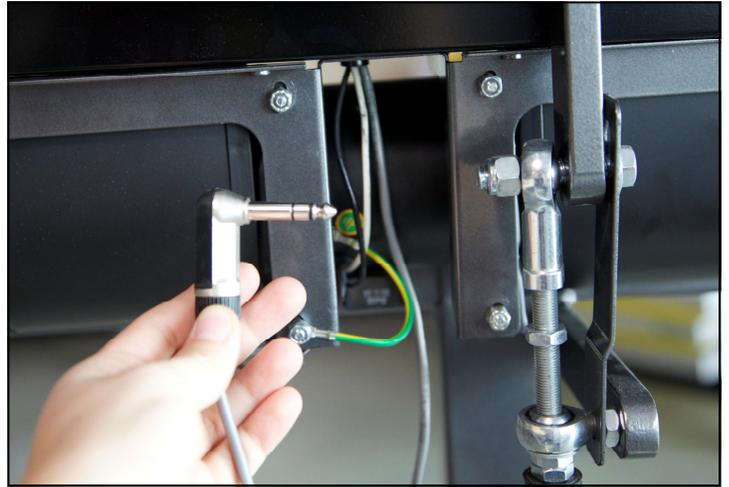
The manual timer is to control the duration of the flash.

Connection



The cable jack plus into any print head. Once, the flash is plugged into the end of the print head the touch screen control will recognize that the flash is in place.

The photo to the right is the cable jack .

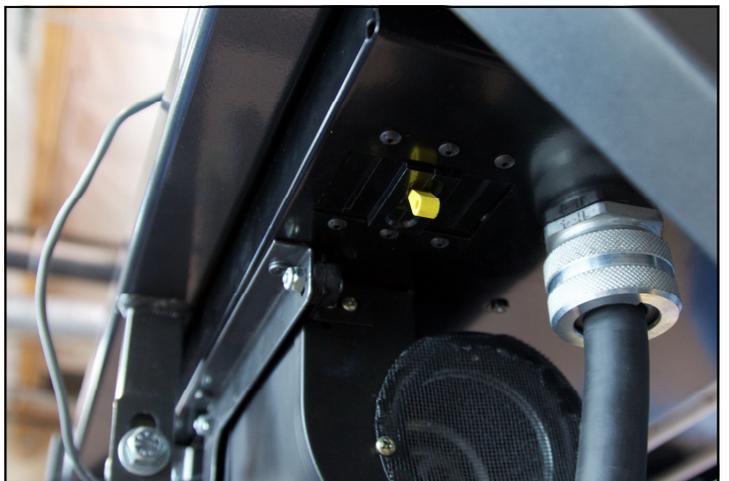


The Plug N Go receptacle is the round and black connection with the lightening icon, which is located at the end of the print head. This receptacle is where the cable jack needs to be placed for the press to recognize the flash.

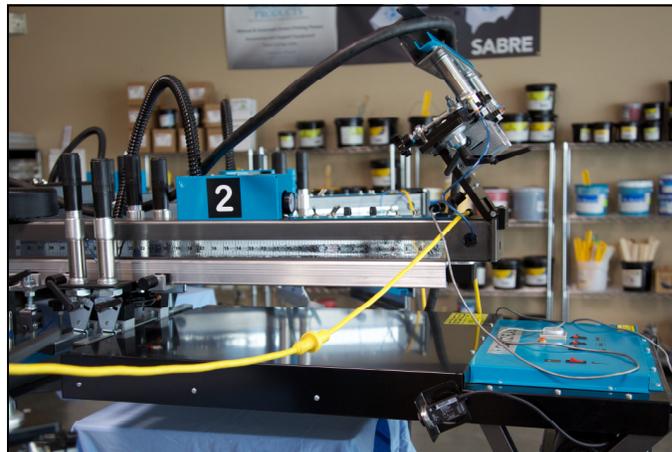
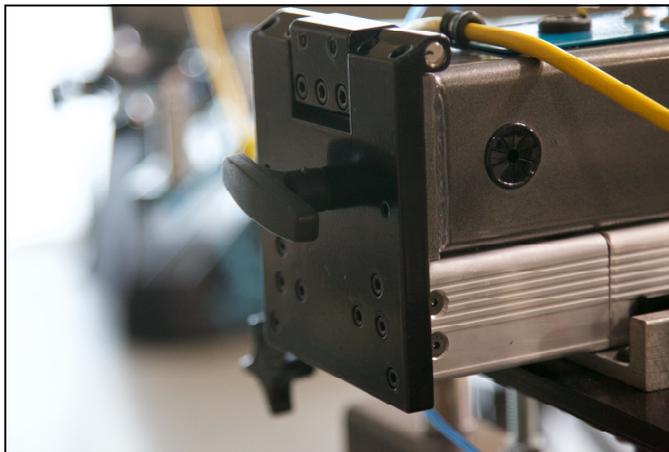
The photo to the right is the Plug N Go receptacle.



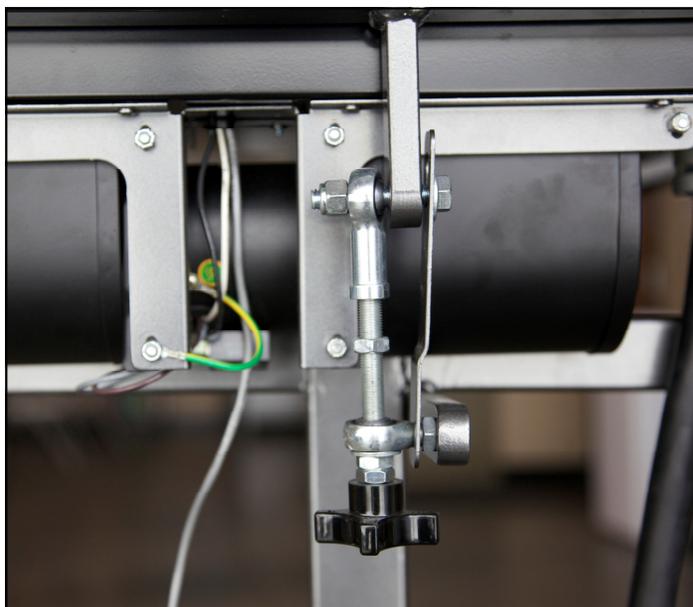
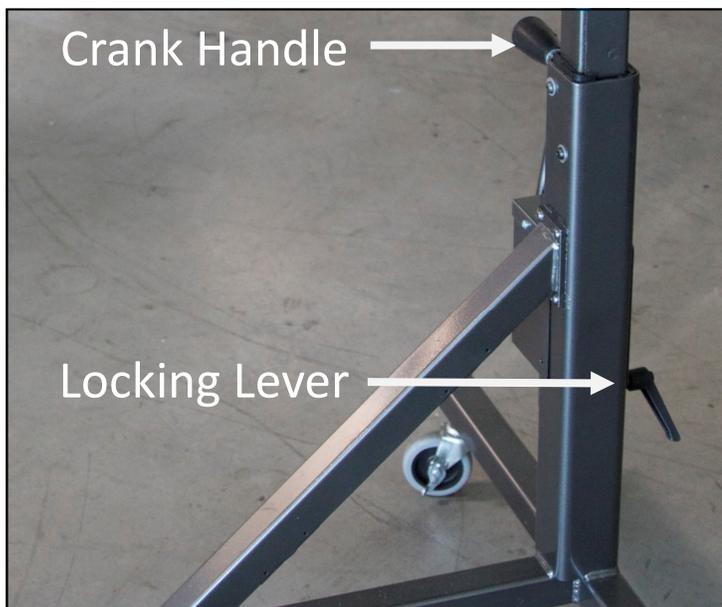
The Plug N Go's main power switch is located under the control panel. It is the yellow switch that is next to the main power cord. The switch must be turned on for the press to recognize the flash, or for the flash to function.



Adjustments

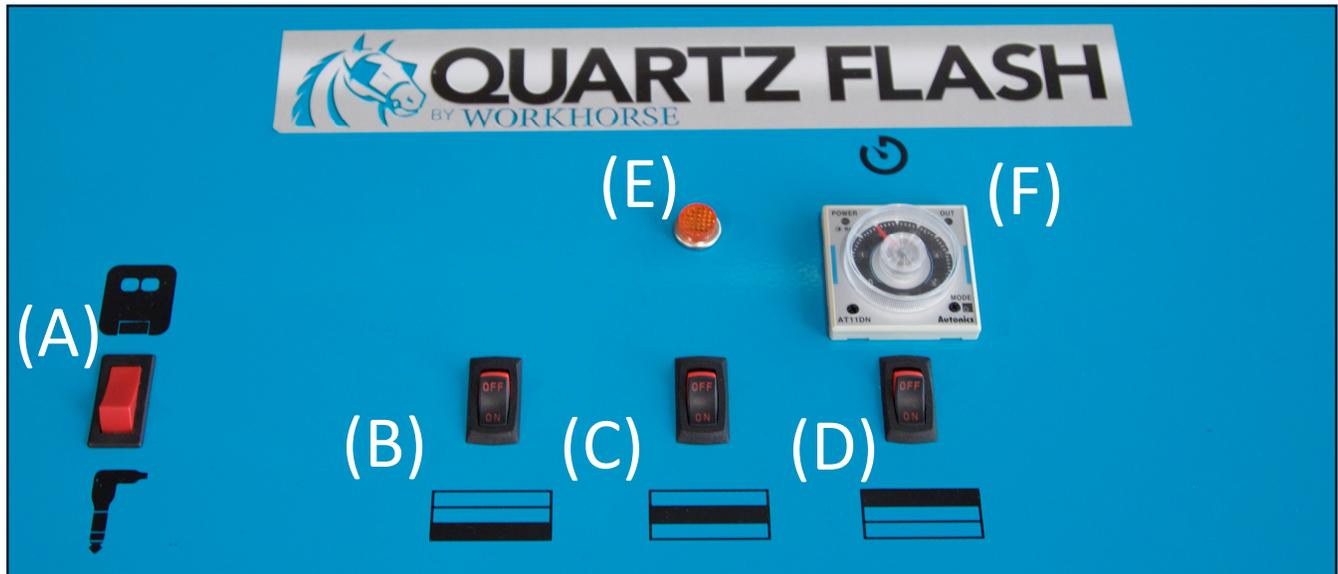


In order for the Plug N Go to work the print head needs to be in the “Flash Table Up” position. To get into the proper position loosen the T-Knob and rip the hinged front screen clamp up and out of the way. This provides access to roll the flash over the platen in it’s higher table up position.



To adjust the flash height unlock the locking lever, and then use the crank handle to adjust the height of the element tray. Once set to the desired position, tighten the locking lever.

The tilt adjustment is to level the heating element so that it’s parallel with the platen.



The image above is the control panel for a Universal Plug N Go flash. A Plug N Go flash for the Sabre and Freedom express do not include (A) and (F).

(A) Sensor Control/ Plug N Go Control: The top icon of the sensor signifies sensor control, and the bottom icon of the plug signifies Plug N Go Control. In sensor mode the flash will be triggered when the machine indexes. In Plug N Go mode the flash is controlled through the touch screen control.

(B) Heat Zone 1: The heat zone option allows the operator to choose which part of the flash to use. Only the amount needed is used to flash the image, which will save on electrical expenses. The zones can be used singly or in combinations. Heat zone options work in Sensor and Plug N Go modes. Heat zone 1 represents the bottom elements

(C) Heat Zone 2: Represents the middle elements.

(D) Head Zone 3: Represents the top elements.

(E) Power Indicator: The orange light will illuminate when the flash is on.

(F) Manual Timer: The timer is included only on the Universal Plug N Go flashes. Use the manual timer to set the duration of the flash.

Tip: It takes a long time to flash a print when starting a job with cold platens. To optimize your flash times and even overall production times, pre-warm the platens before the productions starts.

Touchscreen Controls



WORKHORSE PRODUCTS

1:10 PM

Reset

Off

Printing Mode

A Full Auto

P Auto W/Pedal

M Manual

1 Sample Print

MACHINE SETTINGS

Print Options for 1 Arm

(A) Active Yes

Home Position Inner

Place Shirt Off

Strokes 1 Stroke(s)

Step Back Off

Ink Type Plastisol

Flood With Index With

(B) Flash Head On

(C) Flash With Index After

(D) Flash Time 1 Second(s)

Setup Actions Flash

When the Plug N Go is plugged into the print head a lighting bolt icon appears on the press graphic. Touch the print head and a sub menu will appear with options to control the flash, and they are:

- (A) Active:** Select “Yes” for the print head to be active.
- (B) Flash Head:** Select “On” for the flash to be active.
- (C) Flash with Index:** The two options are “With” or “After”. Selecting “With” means that the flash will turn on when the platens begin to move from one station to another, which allows the flash to have more time to heat up while the press is indexing. Selecting “After” means the flash turns on after the press indexes. It is recommended to select “With” when needing a hotter and faster flash, and to select “After” when needing a cooler flash, (which is necessary when flashing sensitive compound fabrics).
- (D) Flash Time:** The flash time represents the amount of time the press holds the platens in the up position until the flash curing process is complete. Optimization of this time is essential because it will have a dramatic effect on production numbers. The time can be lowered after the press has been running and the platens are heated. Be wary of setting the flash timer for too long because it could ruin the ink and not adhere if the layer is too cured.

Parts List



35-11-012	000	LEVER 5/16-18 X 1" STUD	1 EA
58-1230	000	CASTER, 3" BRAKE 3/8-16 X 1" STEM	4 EA
71005	000	PLUG, BLACK PLASTIC, 1-1/2" SQ	6 EA
35-12-009	000	KNOB 4 PRONG - MOD W/ STUD	1 EA
35-13-001	000	ROD END 3/8-24 FEMALE	1 EA
35-13-003	000	ROD END 3/8-24 MALE SHORTEN 1/2"	1 EA
35-13-002	000	ROD END 3/8-24 MALE NOT CUT	1 EA
10-04-007	000	CIRCUIT BREAKER 2POLE 240V 90AMP	1 EA
10-06-008	000	RELAY, 4 PIN, SPDT 24VDC	1 EA
10-06-009	000	RELAY, 4PIN, SPST, 10A, 120VAC	1 EA
10-06-019	000	SOLID STATE RELAY 480V 90A	3 EA
10-10-005	000	BANNER VALU-BEAM INFRA RED	1 EA
10-11-023	000	TERMINAL STRIP MINI 12 POS	1 EA
10-17-001	000	CONNECTOR, CORD .875-1.00 DIAM	1 EA
10-17-002	000	CONDUIT 3/4" CONNECTOR BLACK	2 EA
10-17-004	000	CONDUIT 3/4" FLEX HOSE BLK	1 FT
10-19-004	000	TIMER, AUTONICS AC110V W/BASE	1 EA
10-22-012	000	INFRARED QUARTZ BULB 1600W 240V	8 EA
30-1590	000	SWITCH, ROCKER SPDT, 16A-125V	1 EA
30-42-012	000	CONDUIT LOCKNUT, 1"	1 EA
30-6227	000	SWITCH ROCKER	3 EA
34-20472	A	LAMPHOLDER, SPRING SOCKET 48" LEAD	18 EA
76117	000	TERMINAL BLOCK 5 POS.	1 EA
76202	000	HEAT SINK COMPOUND .5G SQUEEZE TUBE	1 EA
76228	000	TERMINAL BLOCK 9 POLE HIGH VOLTAGE	1 EA
82107	A	HEAT SINK RELAY CONTROL BOX PHQ	6 EA
E-0901	A	LAMP (PRESS) 28V POWER	1 EA
E-0975	000	LOW PROFILE BLOWER, 230V	1 EA

For more extensive parts and trouble shooting help with ANY
Workhorse Product please visit our on-line Parts store and

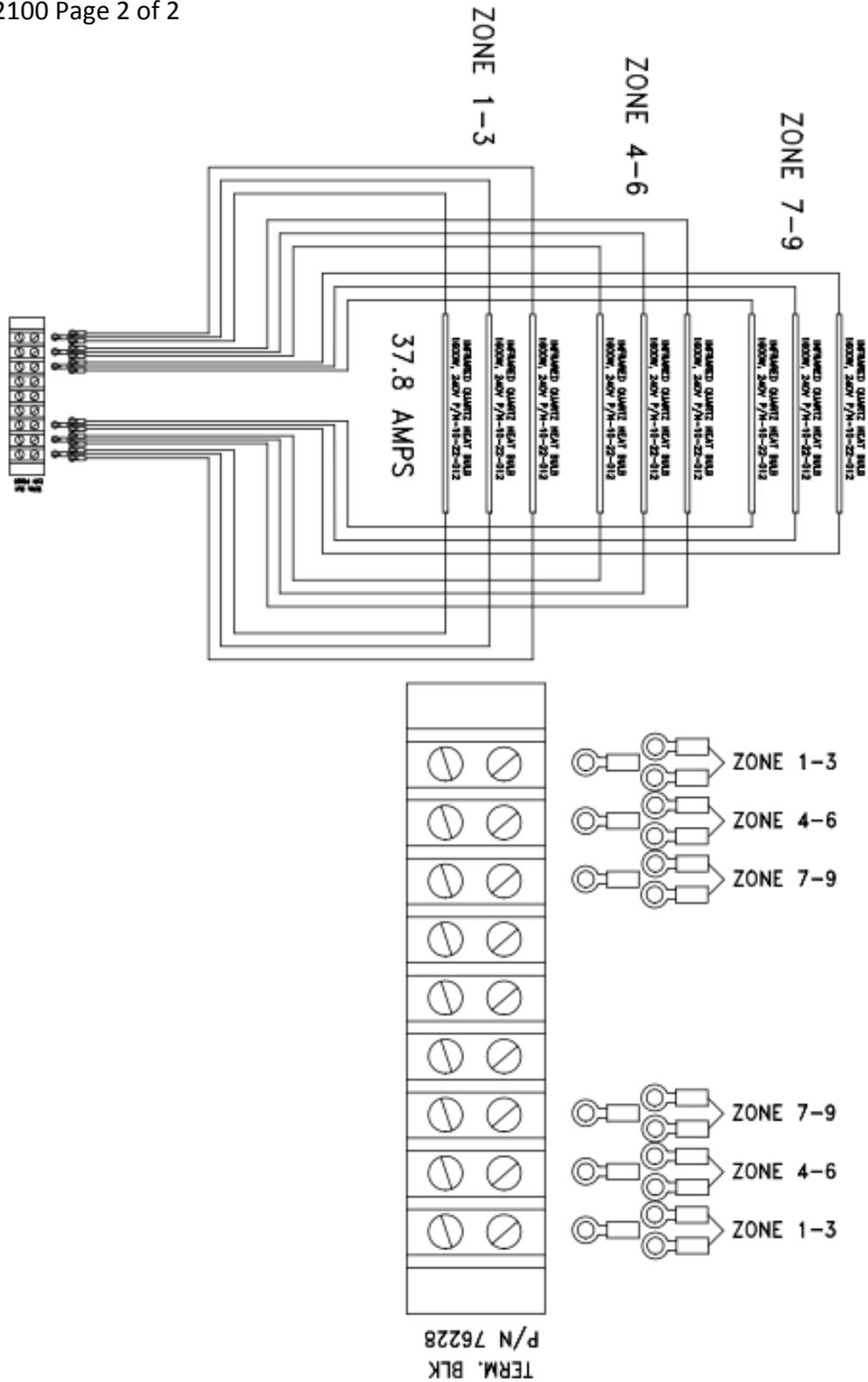
Support Center at:

<http://support.workhorseproducts.com/store/>

Wiring Diagram



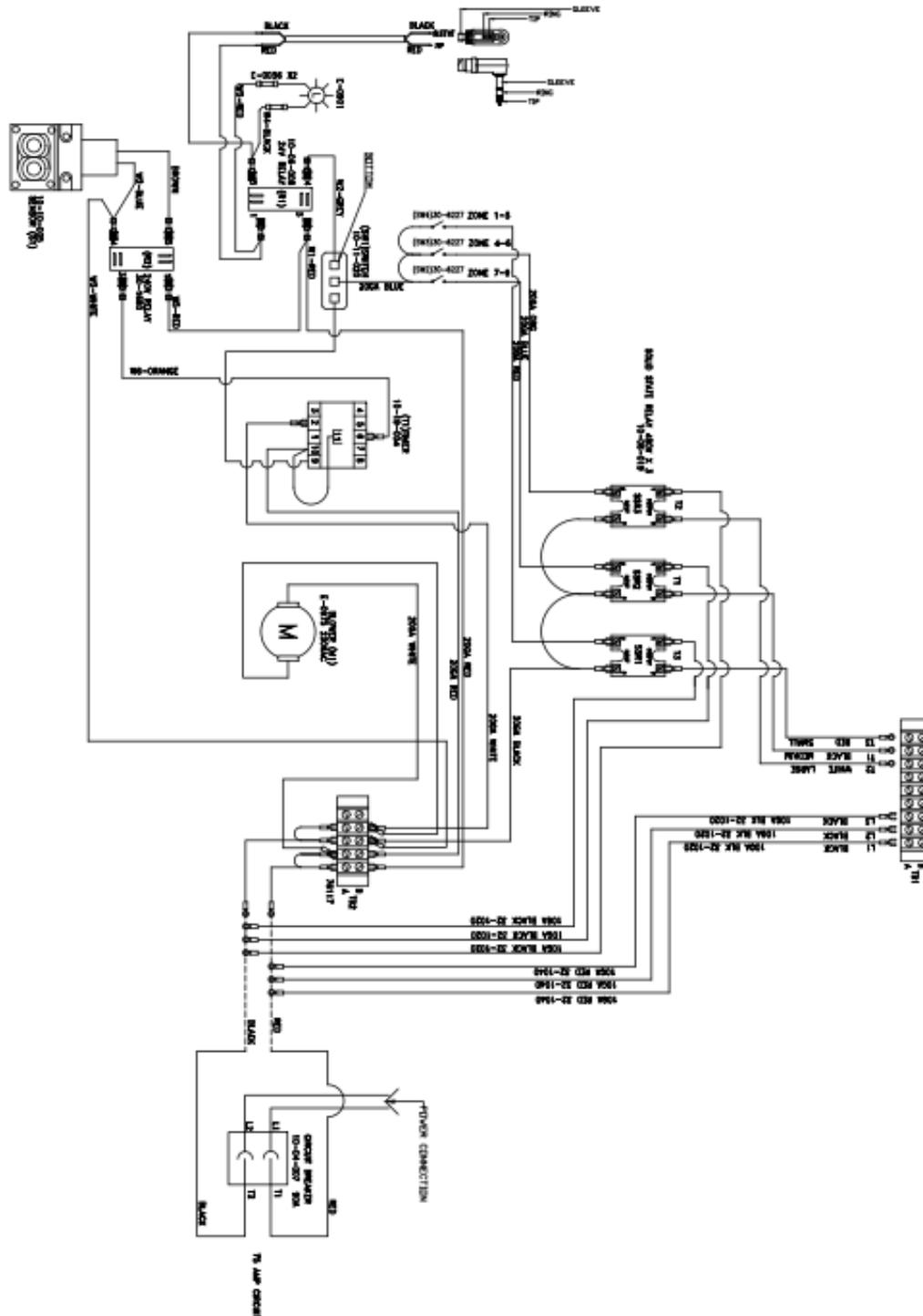
Model SQF-2100 Page 2 of 2



Wiring Diagram



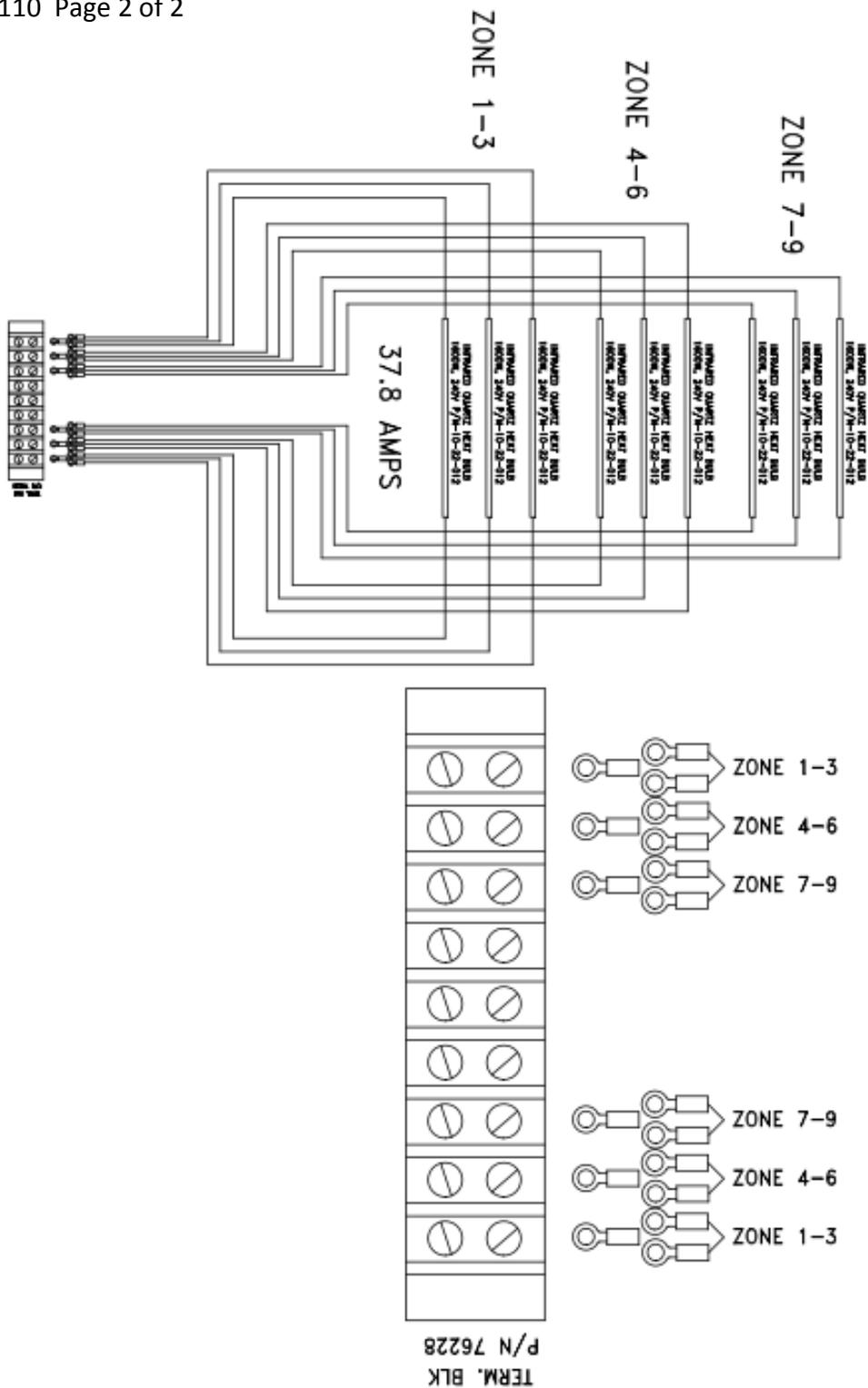
Model SQF-2105 Page 1 of 2



Wiring Diagram



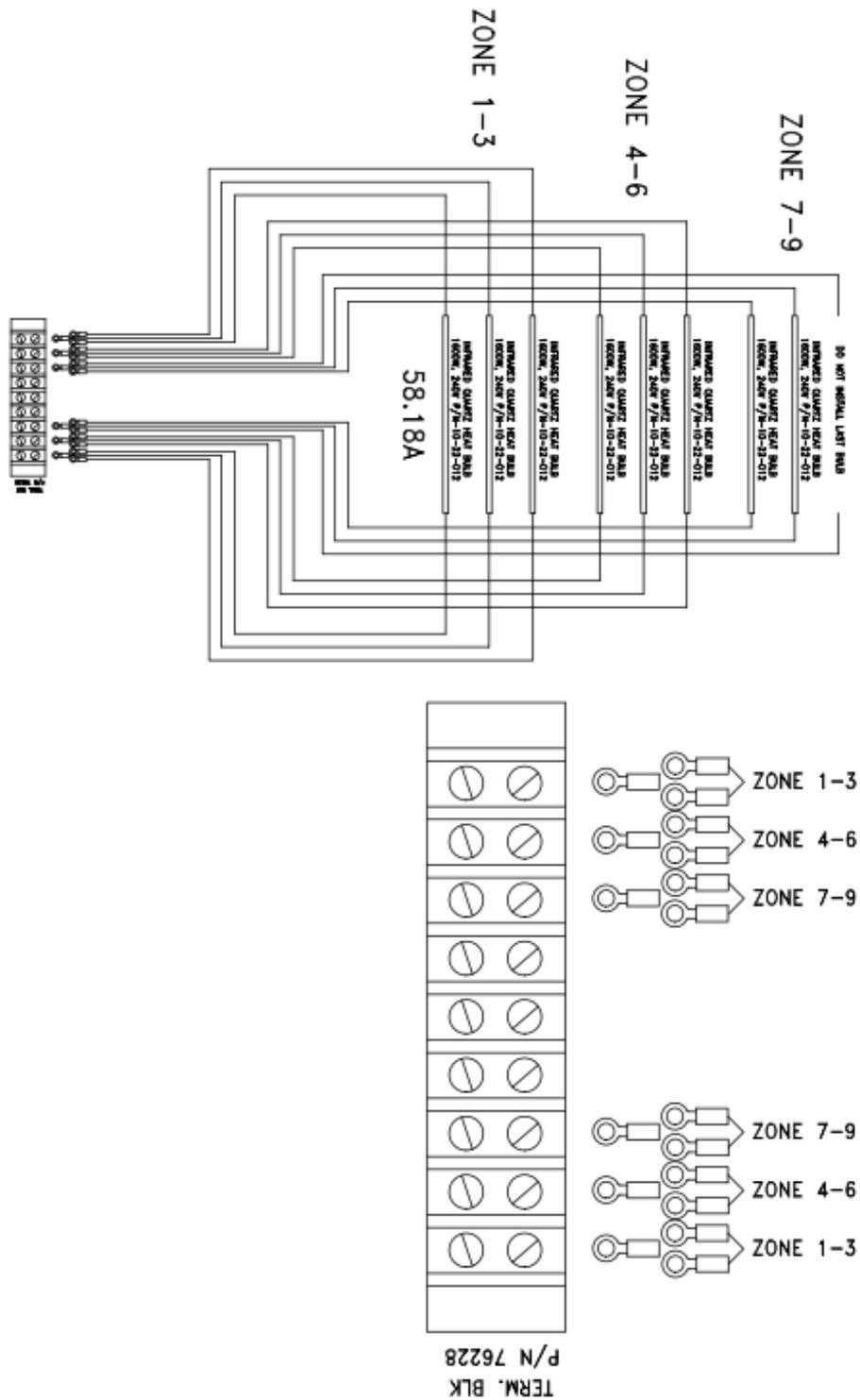
Model SQF-2110 Page 2 of 2



Wiring Diagram



Model SQF-2115 Page 2 of 2



Limited Warranty



Although every effort has been made to provide accurate specifications, Workhorse Products does not assume any liability for damages, whether consequential or incidental, that may result from the use or misuse of the indicated specifications. Workhorse Products requires the use of a licensed industrial electrician for the installation of electrical service to equipment requiring electrical power.

Workhorse Products reserves the right to alter specifications in the manufacture of its products. It is understood and agreed that Seller's liability for any equipment whether liability in contract, in tort, under any warranty, in negligence, in strict liability or otherwise shall not exceed the return of the amount of the purchase price paid by Buyer. Notwithstanding the foregoing provision, under no circumstances shall Seller be liable for special, indirect or consequential damages. The price stated for the equipment is a consideration in limiting Seller's liability. No action regardless of form, arising out of the transactions under this Agreement may be brought by Buyer more than one (1) year after the cause of action has occurred. Our warranty is specified is exclusive and no other warranty, whether written or oral, is expressed or implied. Workhorse Products specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Equipment manufactured or sold by Workhorse Products is warranted against defects in workmanship and materials for a period of one year from receipt by customer. All warranties initiate from date of shipment to original customer. Replacement parts are covered for the term of the equipment warranty period. Parts not under warranty are covered for thirty (30) days from receipt by customer. Any part found by Workhorse Products to be defective in material or workmanship within the stated warranty period will be replaced or repaired at Workhorse's option without charge.

AFTER OBTAINING AN RMA# SEND RETURNED FREIGHT PREPAID TO 3730 E. Southern Avenue, PHOENIX, AZ 85040 USA.

Written authorization must be obtained from Workhorse before any part will be accepted. Replacement parts are sent out freight collect.

Parts sent out prior to receiving defective require a credit card hold for cost plus freight. Upon return of defective part, if it is deemed that the part was not damaged by customer but failed, the cost of the replacement part will be refunded.

This warranty does not extend to expendable parts such as filters, fuses, elements and brushes. Workhorse does not warrant failure of parts or components resulting from misuse or lack of proper maintenance. Installation, inspection, and

Registration Form

Company Name: _____	Contact Name: _____
Address: _____	Phone Number: _____
_____	Fax Number: _____
City: _____	Email : _____
State: _____	Cell Number: _____
Country: _____	Serial Number: _____
Zip Code: _____	Date Recivied: _____
Model Number: _____	
Date Purchased _____	

Please Fax Registration Form for warranty to take place