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# **Manual Transaction Drawer (MD2) Red Bin Heater Kit Manual**

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# Manual Transaction Drawer™ Red Bin Heater Kit Installation

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## **Installation Instructions**

### **Tools Needed:**

5/16" Wrench or Nut Driver  
Flat Blade Screwdriver  
1/4" Wrench or Nut Driver  
7/16" Wrench(s) or Ratchet  
Side or Diagonal Cutters

### **Parts Supplied:**

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>QTY.</u></b>
1	TD Heater	1
2	Wire Tie Block	1
3	Self-Fastening Wire Ties	2
4	Medium Wire Tie	1
5	Black Medium Wire Tie	1
6	. Small Wire Tie	1
7	Cable Carrier Assem.	1
8	Heater Cable	1
9	Heater Power Supply	1
10	#8 Thread Rolling Screws	4
11	#6-32 Nuts	4
12	Orange Wire Nuts	3
13	9/64" Drill Bit	1
14	18-3 Power Cord	1
15	Strain Relief	1
16	1/4" Flat Washer	2
17	1/4-20 x 1" Hex Cap Bolt	2
18	1/4-20 Nuts	2
19	3/8" Snap In Bushing	1

### **Installation Procedure**

Fully extend the Bin Assembly to the Customer end. Go outside and clean the bottom surface of the bin that the heater and wire tie block will be applied to. (Windex or similar cleaners work best. Do not use lacquer thinner or other solvents to clean the surface.) Mark the location of the heater as shown in Figure #1. Peel the protective paper from the back of the heater and press firmly on the bottom of the drawer with the leads orientated as shown in Figure #1.

Stick a wire tie block on the bottom of the red bin as shown in Figure #1. Secure the heater lead with the small wire tie provided.

Return inside and remove the back panel from drawer. There are (3) screws across the top of the panel and the (2) screws across the bottom.

Retract the Bin back in to the closed position.

Install the cable carrier assembly to the stud in the bottom of the shell as shown in Figure #2.

Place the bracket of the cable carrier assembly over the holes in the center of the cross bar and secure with the 1/4-20 nuts and bolts provided.

Install the 3/8" snap in bushing, up from the bottom, into outer shell's the 3/8" hole near the cable carrier stud.

Route the cable from the carrier through the bushing, and secure with one medium wire tie on the inside of the shell and the black medium wire tie on the outside of the shell to create a strain relief on the cable. See Figure #2.

Plug cable from the carrier into connector cable and run the connector cable along the outside the drawer to where the Power Supply will be mounted and secure as needed.

**(Note:** If you plan to mount the Power Supply to the side of the drawer, it is recommended that it be mounted to the left side of the shell so it is away from, and not interfere with the drive mechanism.)

To mount the heater power supply to the side of the drawer, position the power supply so the off/on switch can be easily see and operated, then drill holes if necessary with the bit provided, after checking that holes and screws will not damage or interfere with drawer operation, and secure with the #8x3/8" hex headed thread forming screws provided. (Note: the E.F. Bavis All-In-One series windows have studs provided on the drawer support arm, see Figure #3 for location)

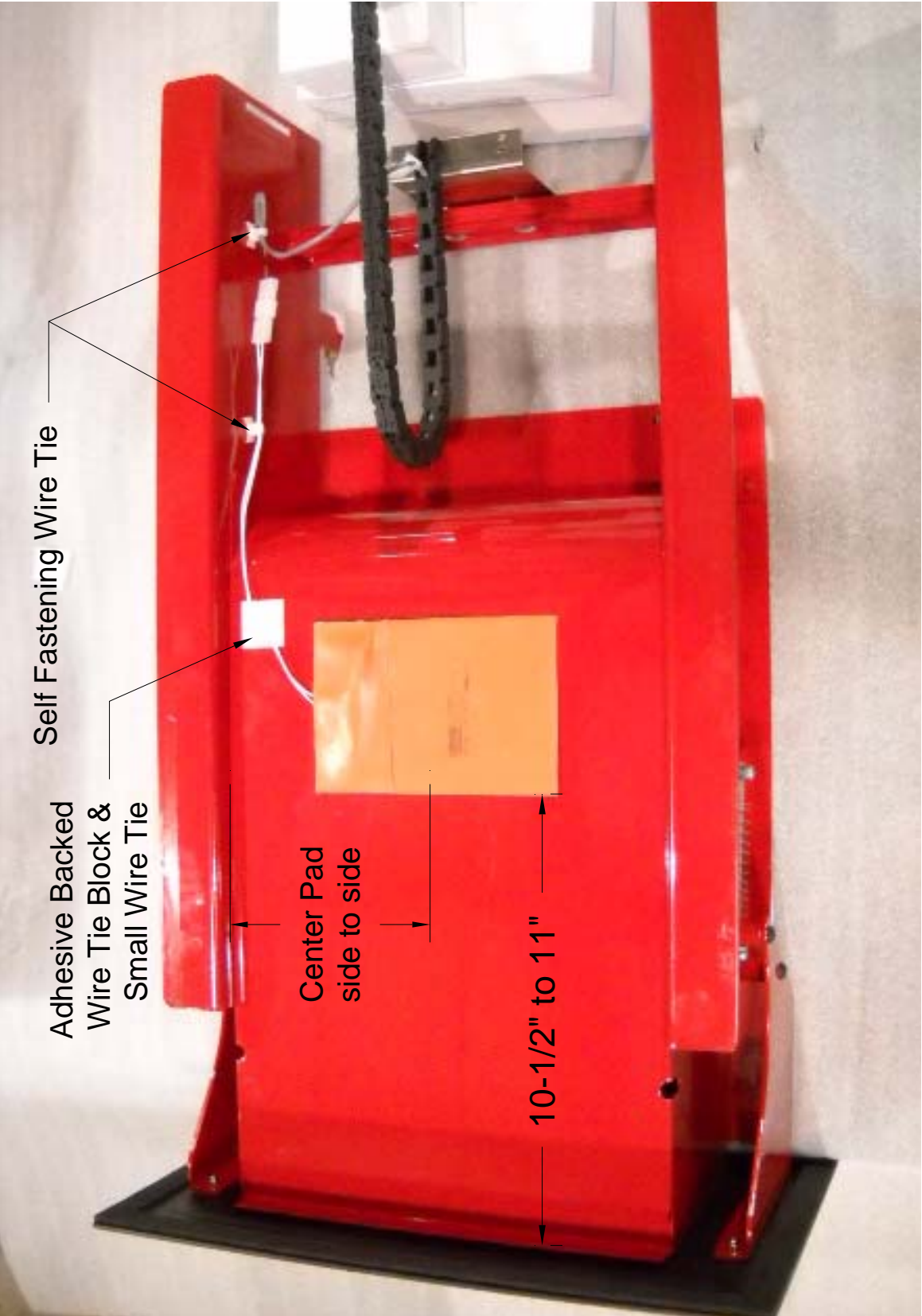
Wire the heater power supply to a 120V circuit following NEC and all local codes. *6" 16ga leads are provided for the power connection.*

Plug the heater connector cable into the back of the heater power supply.

## **Heater Operation**

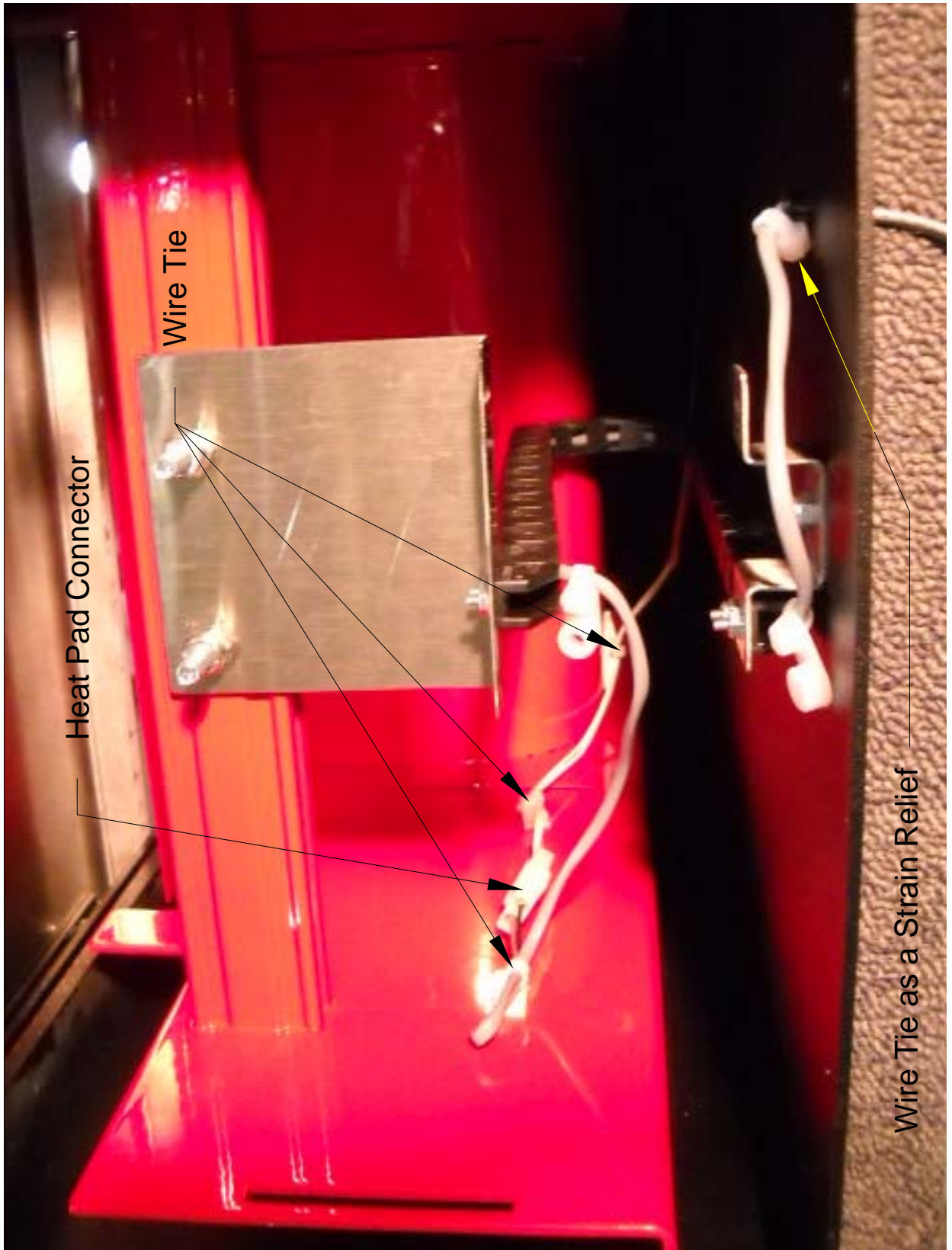
Turn on with the rocker switch on the face of the heater power supply. The switch should illuminate.

The drawer will get warm to the touch. The heater is powered from low voltage and protected by a 4 amp *circuit breaker* in the heater power supply. The heater is controlled by a non-adjustable thermostat. A non replaceable over-temperature device is built in to the heater to protect against thermostat failure.

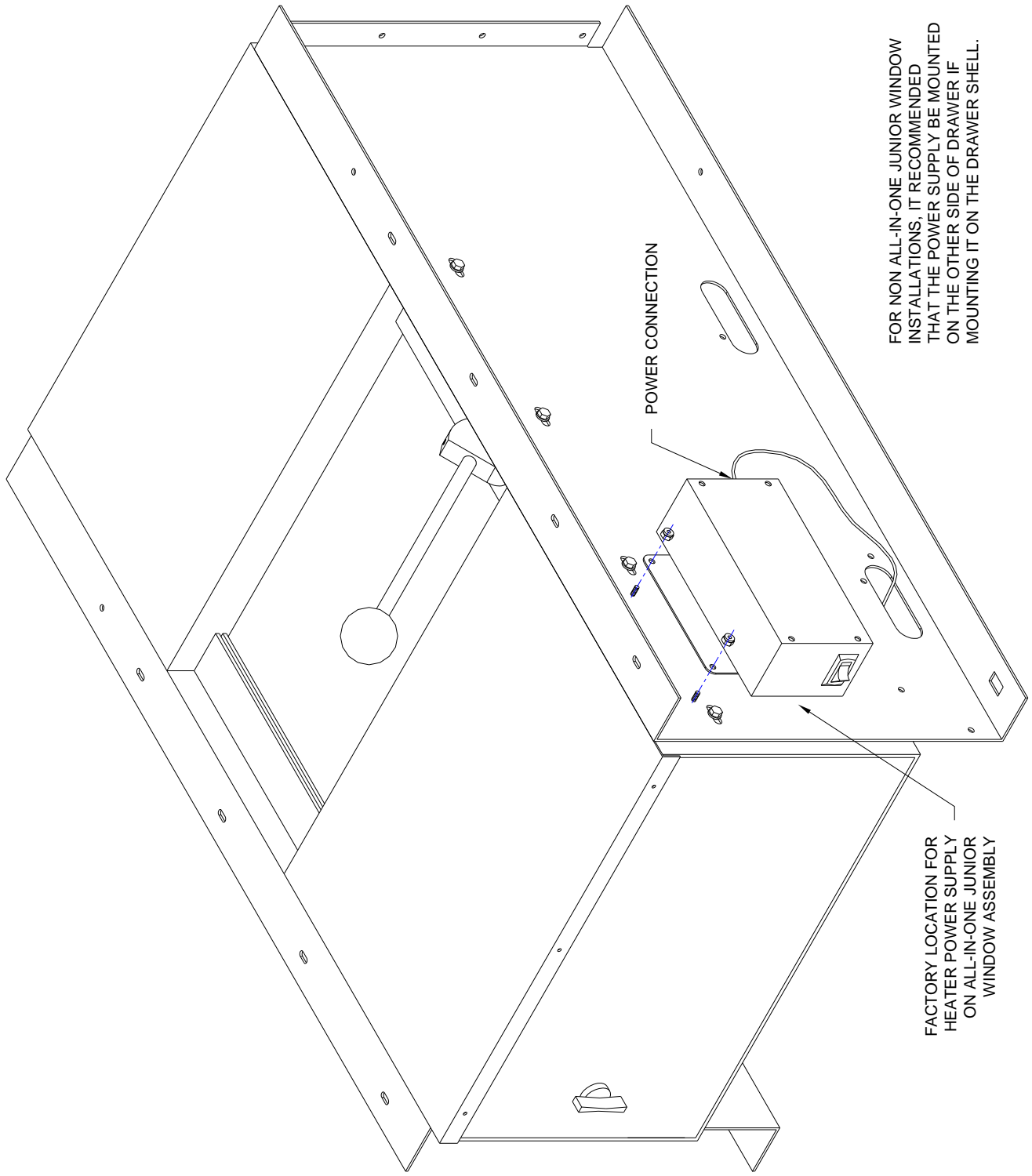


**FIGURE #1**





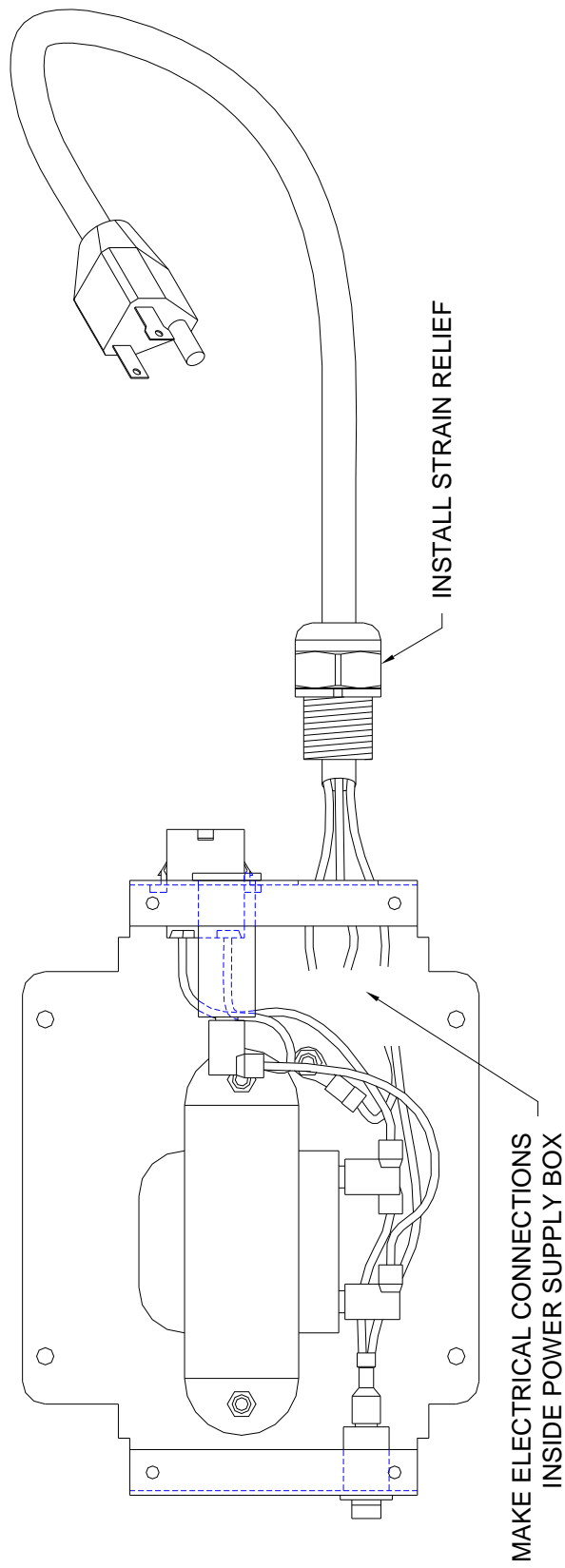
**FIGURE #2**



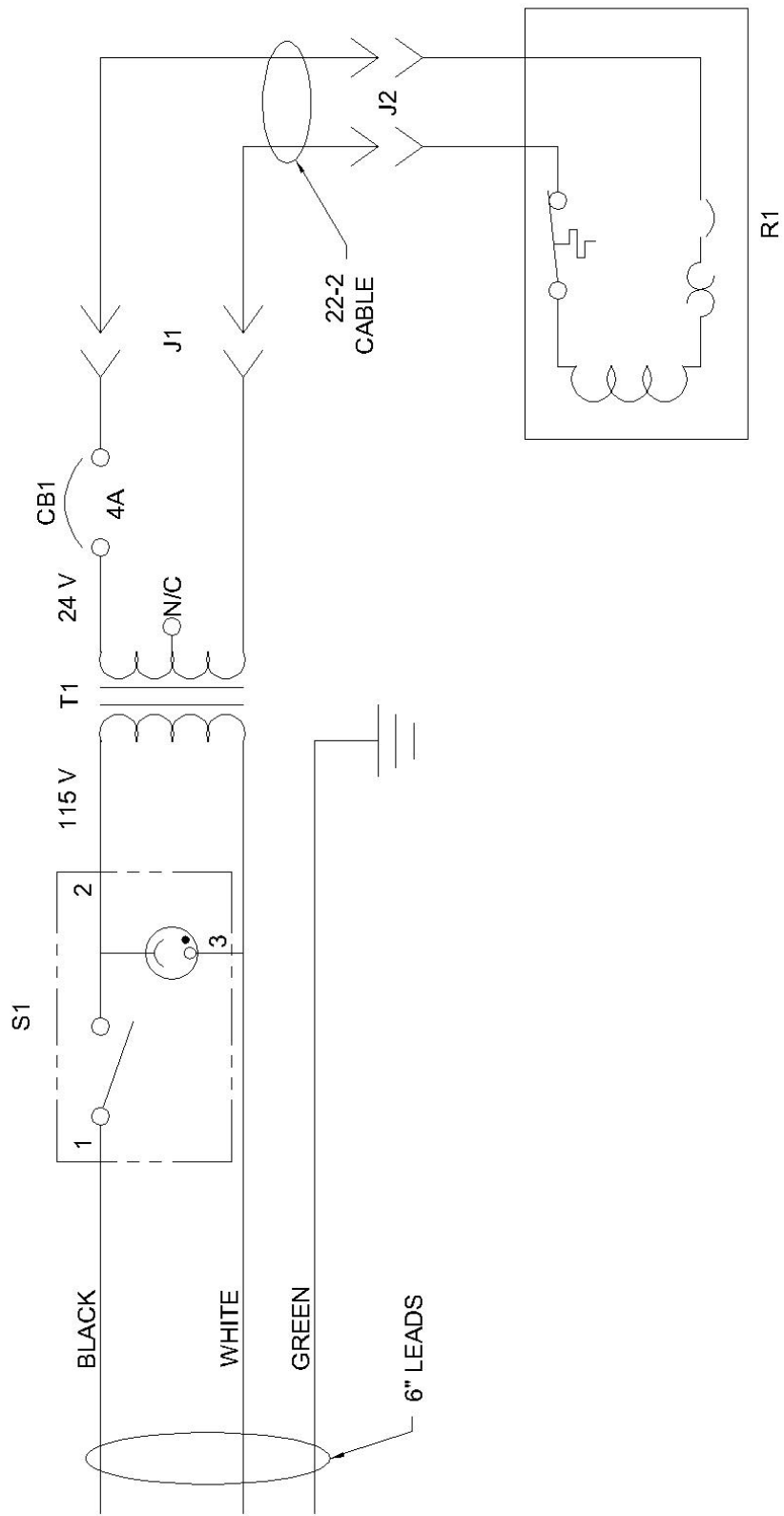
FOR NON ALL-IN-ONE JUNIOR WINDOW INSTALLATIONS, IT RECOMMENDED THAT THE POWER SUPPLY BE MOUNTED ON THE OTHER SIDE OF DRAWER IF MOUNTING IT ON THE DRAWER SHELL.

FACTORY LOCATION FOR HEATER POWER SUPPLY ON ALL-IN-ONE JUNIOR WINDOW ASSEMBLY

**FIGURE #3**



**FIGURE #4**



**WIRING SCHEMATIC**

