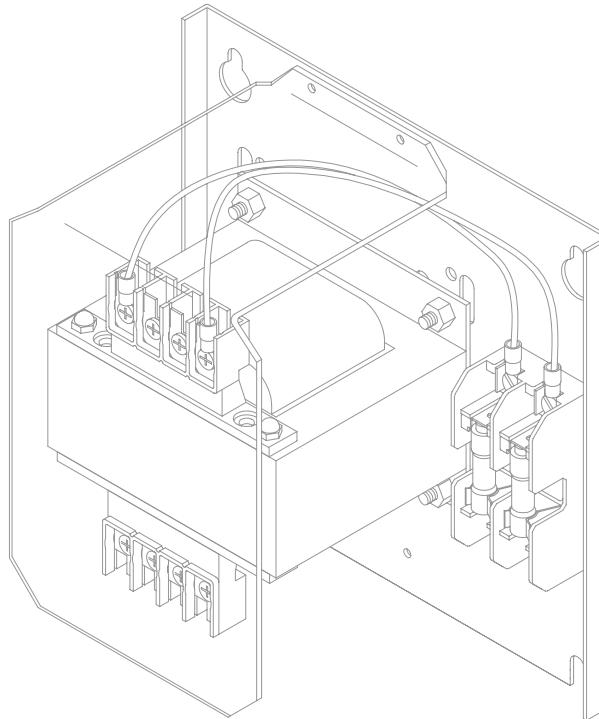


**INSTALLATION INSTRUCTIONS  
FOR  
641I-001A  
641J-001A  
641K-001A  
TRANSFORMER KITS  
For 641 series Command Center**



SHIVERS INCORPORATED  
614 WEST ENGLISH  
CORYDON, IOWA 50060  
515/872-1005

## **SAFETY**

The installer of this equipment must assume the responsibility for his own safety, and that of those working around him. He must also make sure that the equipment is installed as shown in this manual.

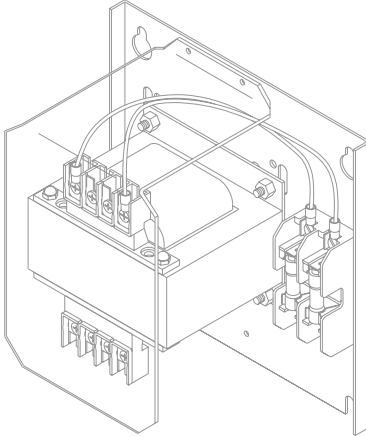
If any items covered in this manual are not completely understood, or there is a concern with the safety of this product, contact Shivvers at the address shown on the front page.



**TAKE NOTE ANYTIME THIS SYMBOL APPEARS.  
YOUR SAFETY, AND THAT OF PERSONS  
AROUND YOU IS AT STAKE.**

ALL ELECTRICAL WIRING SHALL BE INSTALLED IN COMPLIANCE WITH THE LATEST EDITION OF THE ANSI/NFPA STANDARD 70, NATIONAL ELECTRICAL CODE, AS A MINIMUM REQUIREMENT, AND IN COMPLIANCE WITH LOCAL WIRING CODES AS APPLICABLE.

WIRING MUST BE DONE BY A COMPETENT ELECTRICIAN. A LICENSED ELECTRICIAN IS RECOMMENDED, AND MUST BE USED WHEN REQUIRED BY LOCAL OR STATE STATUTES.



**641I-001A TRANSFORMER KIT**

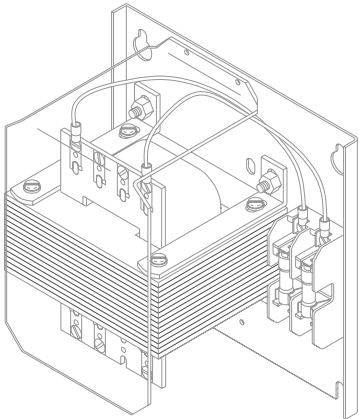
Primary voltage 220/440 VAC

Secondary voltage 115VAC

.3 kVA. Factory wired for 220VAC primary.

Wiring must be field changed for

440VAC primary.

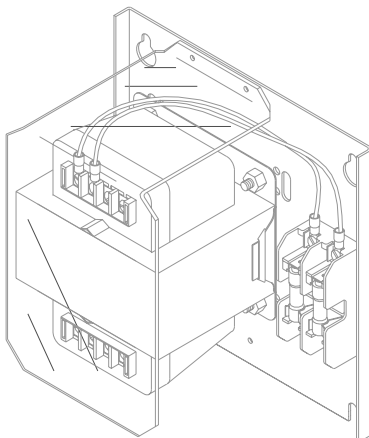


**641J-001A TRANSFORMER KIT**

Primary voltage 575 VAC

Secondary voltage 115VAC

.5 kVA



**641K-001A TRANSFORMER KIT**

Primary voltage 380 VAC

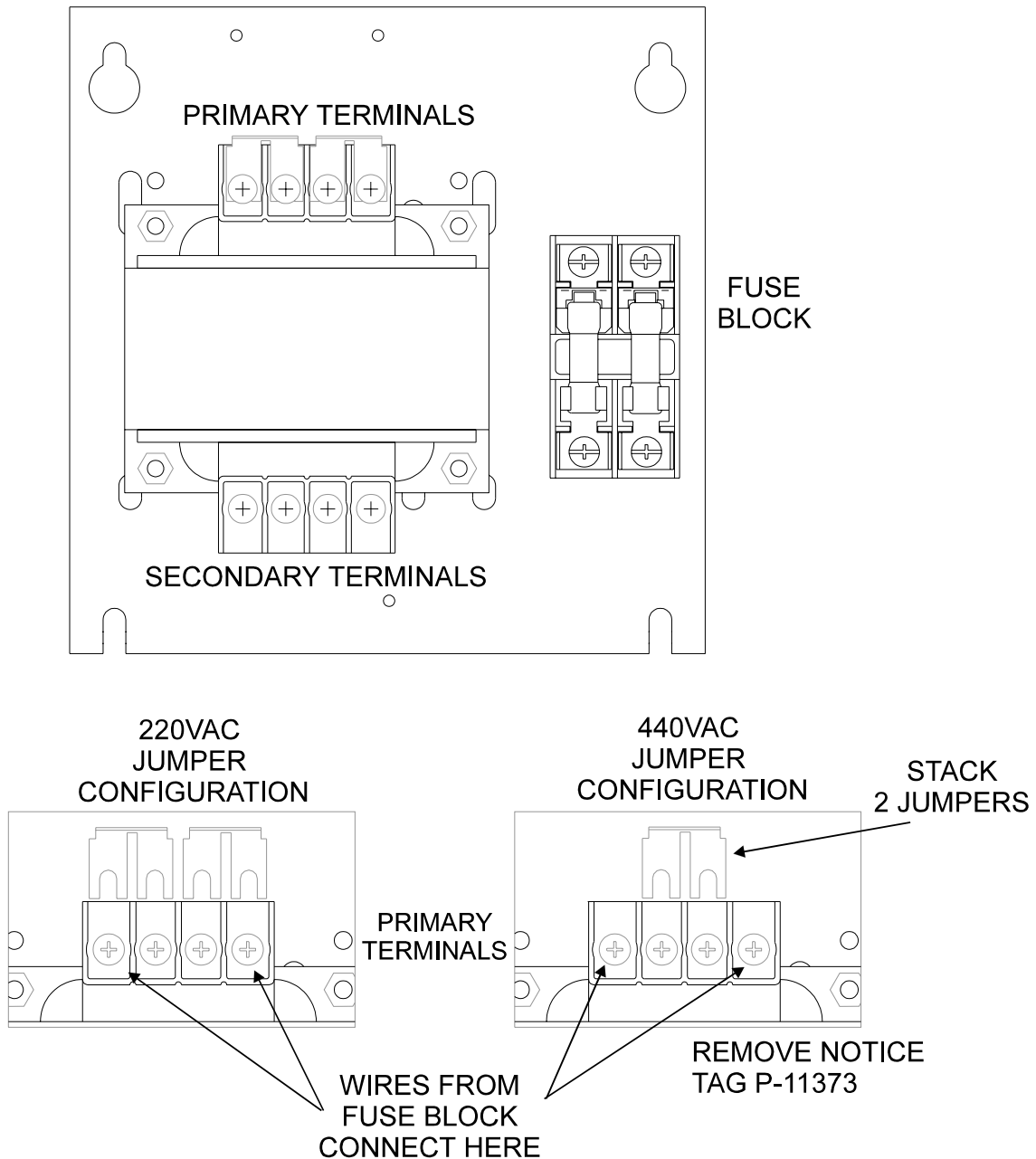
Secondary voltage 115VAC

.5 kVA

## TRANSFORMER SETUP

Before installing the transformer kit, make sure it is rated and setup for the proper voltage. The previous page shows each model number and the input voltage they are able to handle.

**641I-001A** Transformer kit comes set for 220VAC input. The transformer can be set for 440VAC if needed. To change the transformer to 440VAC, remove the two jumpers from the terminals on the primary side and place both jumpers on the two center terminals of the primary side.



**641J-001A** Transformer kit comes wired from the factory to operate on 575VAC. This transformer also has multiple windings to operate on lower primary voltages. This is done by placing the wires on the primary side on different terminals. (No jumpers needed). The decal on the transformer explains the different terminal voltages. Although this transformer will operate on 220/440 primary voltages, it is cheaper to order model # 641I-001A instead.

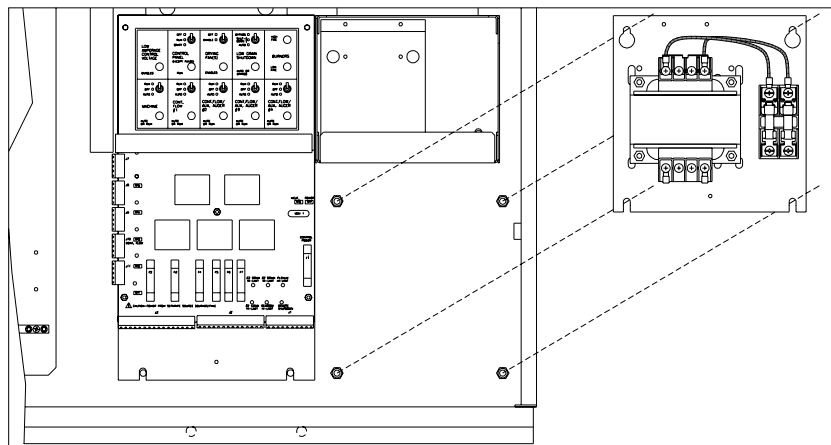
**641K-001A** Transformer kit comes from the factory wired to operate on 380VAC primary voltage. This is also a multiple winding transformer. Use the decal on the transformer for reference on the alternate voltages or contact the factory for assistance.

## **MOUNTING THE TRANSFORMER**



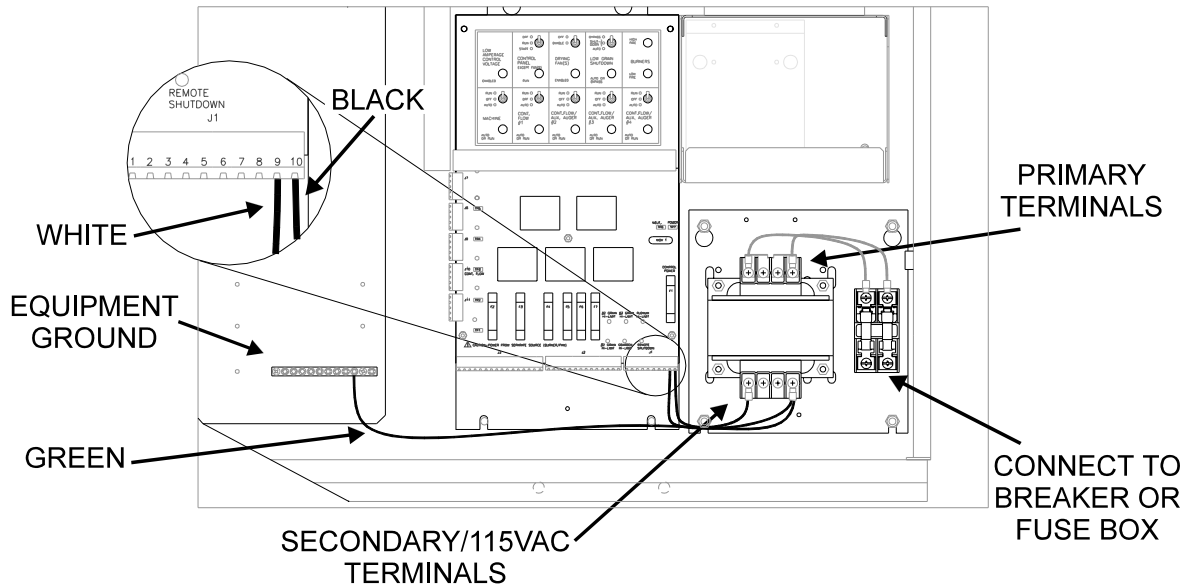
**DISCONNECT AND LOCK OUT POWER TO THE ENTIRE DRYING SYSTEM BEFORE OPENING THE MAIN COVER ON THE CONTROL BOX.**

The mounting bolts for the transformer kits are located in the bottom right-hand corner of the command center. To mount the transformer first locate the (4) ¼" hex nuts with the installation kit. Start 2 of the hex nuts on the top 2 mounting bolts in the command center. Place the transformer over the 2 hex nuts and on to the mounting bolts. Make sure the bottom bolts are in the 2 slots on the bottom of the transformer mounting plate. Place the 2 remaining hex nuts on the bottom bolts, then tighten all four nuts. Take care when installing the transformer not to pinch any wiring behind the mounting plate. Route printer wiring, if installed, over the top of the clear plastic shield.



## **ELECTRICAL CONNECTIONS**

To connect the transformer to the command center, locate the wiring harness on the bottom or the secondary side of the transformer. This is the 115VAC power for the control panel. There should be three wires, a white, black, and green. The black wire connects to the switch relay panel connector J1 terminal 10. The white wire connects to switch relay connector J1 terminal 9, this is the neutral wire. The green wire connects to the equipment ground located on the lower right-hand corner of the starter panel.



Other wiring and clear plastic cover have been omitted for clarity

Run 3 wires, one being green, in a separate conduit, from the bottom side of the fuse block on the transformer assembly, to a separate 10 or 15 amp breaker or fuses. Make sure the clear plastic cover is installed on transformer kit before restoring power.

### TRANSFORMER KIT PARTS LIST

PART #	DESCRIPTION
E-6294	2 POLE FUSE BLOCK CC
E-6295	1.5 AMP FUSE CC
641-041P	CLEAR PLASTIC TRANSFORMER COVER
E-5570	220/440 VAC TRANSFORMER .3KVA
E-5197	575 VAC TRANSFORMER .5KVA
E-6202	380 VAC TRANSFORMER .5KVA