

INSTALLATION INSTRUCTION

Buck Boost Transformer Installation Instructions

SAFETY INSTRUCTIONS



A WARNING:

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.



A WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

QUALIFIED SERVICE PERSONNEL



WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:



A CAUTION:

Always be sure to keep area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

KIT INCLUDES:

Parts:

- PN 620067479 TRANSFRMR 115/240V 60H-16/32V PRE-WIRED
- 620067479INS Manual

Tools Required:

- Multimeter
- Black Electrical Tape
- Phillips Drive Screwdriver
- · Wire Nuts (if needed)
- Needle Nose Pliers
- Wire Strippers (if needed)

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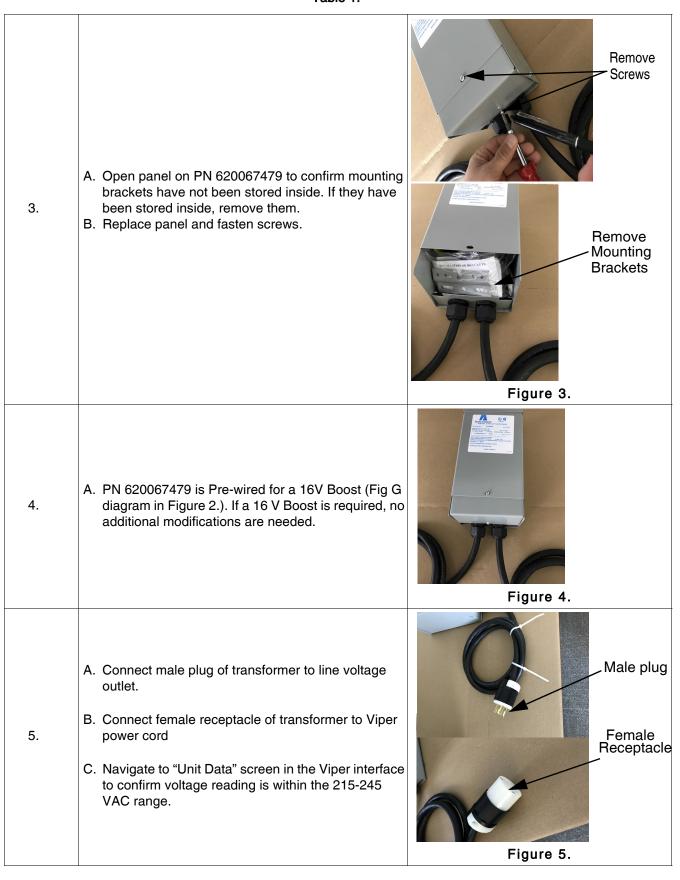
INSTALLATION INSTRUCTIONS

Table 1:

Step	Action	Figure
1.	Determine Input Line Voltage to Viper Unit A. Locate the line voltage value in the "Unit Data" menu in the Viper user interface B. Unplug unit and confirm line voltage using a multimeter C. If voltage is less than 215 VAC or more than 245 VAC, then a Buck/Boost transformer must be installed.	UNIT LINE VOLTACE: 231 LINE FREQUENCY: 60 LOW PSIG #1: 145 HIGH PSIG #1: 176 PRIX ERU UNIT VER Figure 1.
2.	 A. Based on voltage reading determine the type of Buck/Boost transformation that is needed. Refer to diagrams in Figure 2. for wiring options. NOTE: Data referred from Acme Electric Technical Spec sheet B. For input voltages outside the range of 198-250V, please contact Cornelius Customer Care NOTE: PN 620067479 is for 3-Barrel and 4-Barrel Vipers only. 	OUTPUT BOOST BY 32V FOR 215 - 245V OUT, CAN USE FOR 198 - 213V IN Fig. H BOOST BY 16V FOR 215 - 245V OUT, CAN USE FOR 199 - 214V IN Fig. G BUCK BY 16V FOR 215 - 245V OUT, CAN USE FOR 246 - 250V IN Fig. E Figure 2.



Table 1:





REWIRING FOR A TRANSFORMATION OTHER THAN A 16V BOOST Table 2:

Step	Action	Figure
1.	Open panel on PN 620067479. If the mounting brackets have been stored inside, remove them.	Remove Screws Figure 6.
2.	Remove Mounting Brackets.	Remove Mounting Brackets Figure 7.
3.	16V Boost configuration shown in Figure 8.	OUTPUT BOOST BY 16V FOR 215 - 245V OUT, CAN USE FOR 199 - 214V IN Fig. G Figure 8.



Table 2:

		H2-H3
4.	The following wires are spliced together with wire nuts. Wires are labeled accordingly.	X1-X3- Line Output
		H1-X4- Line Input
		H4- Line Input- Line Output
		Figure 9.
		INPUT X4 X3 X2 XI
5.	Locate the desired configuration diagram (rewiring for a 32V boost will be shown) see Figure 10.	OUTPUT ——————————————————————————————————
		Figure 10.



Table 2:

6.	Remove black electrical tape and wire nuts from the following connections: A. H1-X2-X4-Line Input B. X1-X3-Line Output	Figure 11.
7.	Spliced wire connections for this configuration will be: A. H4-Line Output-Line Input B. H2-H3 C. H1-X4-Line Input D. X2-X3 E. X1-Line Output	OUTPUT BOOST BY 32V FOR 215 - 245V OUT, CAN USE FOR 198 - 213V IN Fig. H Figure 12.
8.	Take wires H1-X4-Line Input and splice together using a wire nut	



Table 2:

9.	Assure wire nut is fastened tightly and wires cannot be pulled out. Apply black electrical tape to secure connection.	Figure 14.
10.	Repeat steps 7 and 8 to splice X3-X2 with a wire nut.	
11.	Repeat steps 7 and 8 for the last connection, which will be X1-Line output. See Figure 15. for final configuration.	Figure 15.
12.	Replace panel and fasten screws.	Figure 16.
13.	Connect male plug of transformer to line voltage outlet.	



Table 2:

14.	Connect female receptacle of transformer to Viper Power Cord. Figure 18.	
15.	Confirm voltage reading in "Unit Data" screen in the Viper interface is within the 215-245 VAC range.	
16.	Consult wiring diagrams for different configurations, and contact Cornelius customer care for voltages outside specified ranges.	