
**KIT PART NUMBER 4310117
INSTRUCTIONS FOR INSTALLING A 70 AMP TRIAC
KIT IN A MODEL 431 SHOPPER**

CHECK THE PARTS RECEIVED IN THIS KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING CONTACT THE CRANE MERCHANDISING SYSTEMS' PARTS DEPARTMENT AT 1-800-621-7278.

Read these instructions carefully before installing the kit.
Keep these instructions for part numbers and for future reference.

THIS KIT CONTAINS THE FOLLOWING:

PART NUMBER	DESCRIPTION	QTY
4310118	INSTRUCTIONS - 431 TRIAC KIT	1
4311269	PLATE - ASSEMBLY - TRIAC	1
9900081	NUT - 8-32	1
9983780	TRIAC ASSEMBLY - 70 AMP	1

**!WARNING - ELECTRICAL SHOCK HAZARD -
Turn off machine electrical power at Main Switch before installing.
Failure to do so could result in a fatal electrical shock.**

1. Read these instructions carefully before installing this kit.
2. Unlock the monetary door, unlatch and open the main door and turn off the machine power at the Main Switch. Failure to turn off power could result in a fatal electrical shock.

3. Locate the Lower Door Electrical Assembly and loosen the two cover retaining screws and remove the Control Chassis Cover (4312065). See Figure 1 below.



Figure 1

4. Locate the 35 Amp triac shown in Figure 2. Remove the two triac mounting screws and disconnect the push-on connectors attached to the triac tab terminals.

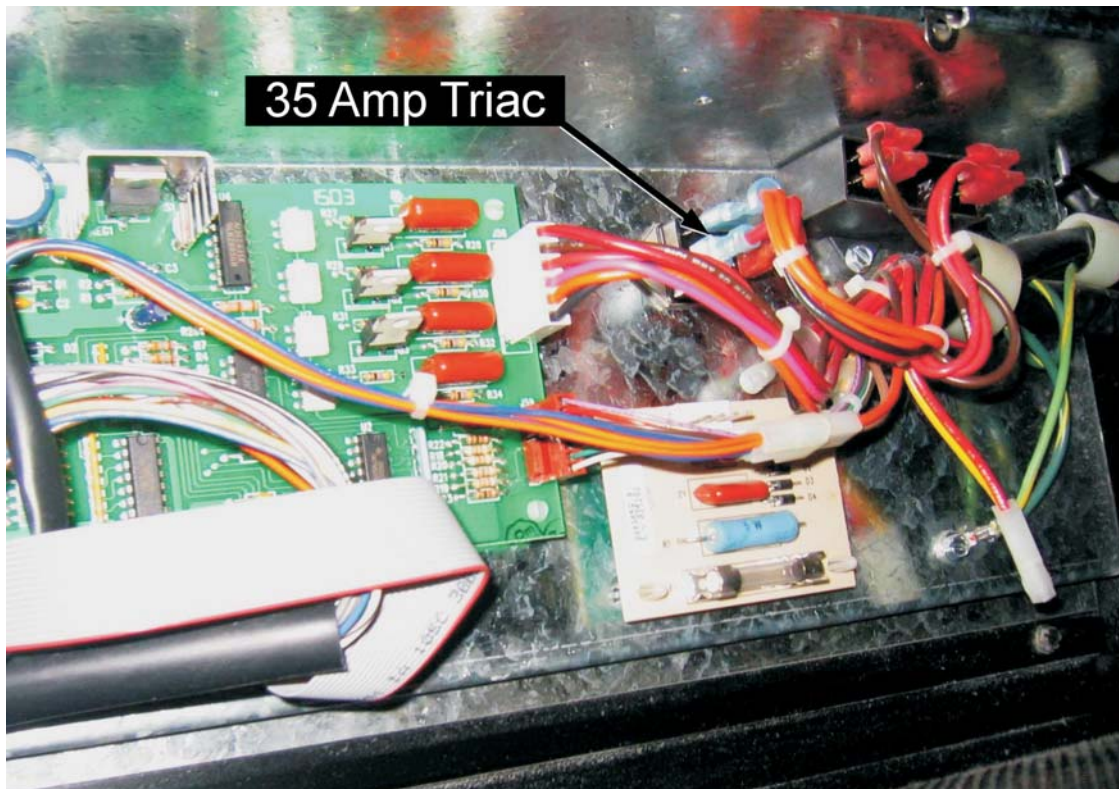


Figure 2

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5. Attach the Triac Assembly (9983780) to the Triac Plate (4311269) using the 8-32 Nut, (9900081) as shown in See Figure 3 below. Notice how the triac's three connectors form a triangle. The small connector is the **Gate**, and attaches to the **black** wire in the original triac harness. **MT1** connects to the **Red** wire in the harness, and **MT2** to the **Orange** wire. **Make sure that the triac is mounted on the triac plate in the orientation shown below, and that the MT1 and MT2 connectors are attached to the proper wires.** If these connections are not made properly, the Triac will not function, and the compressor will not turn on.

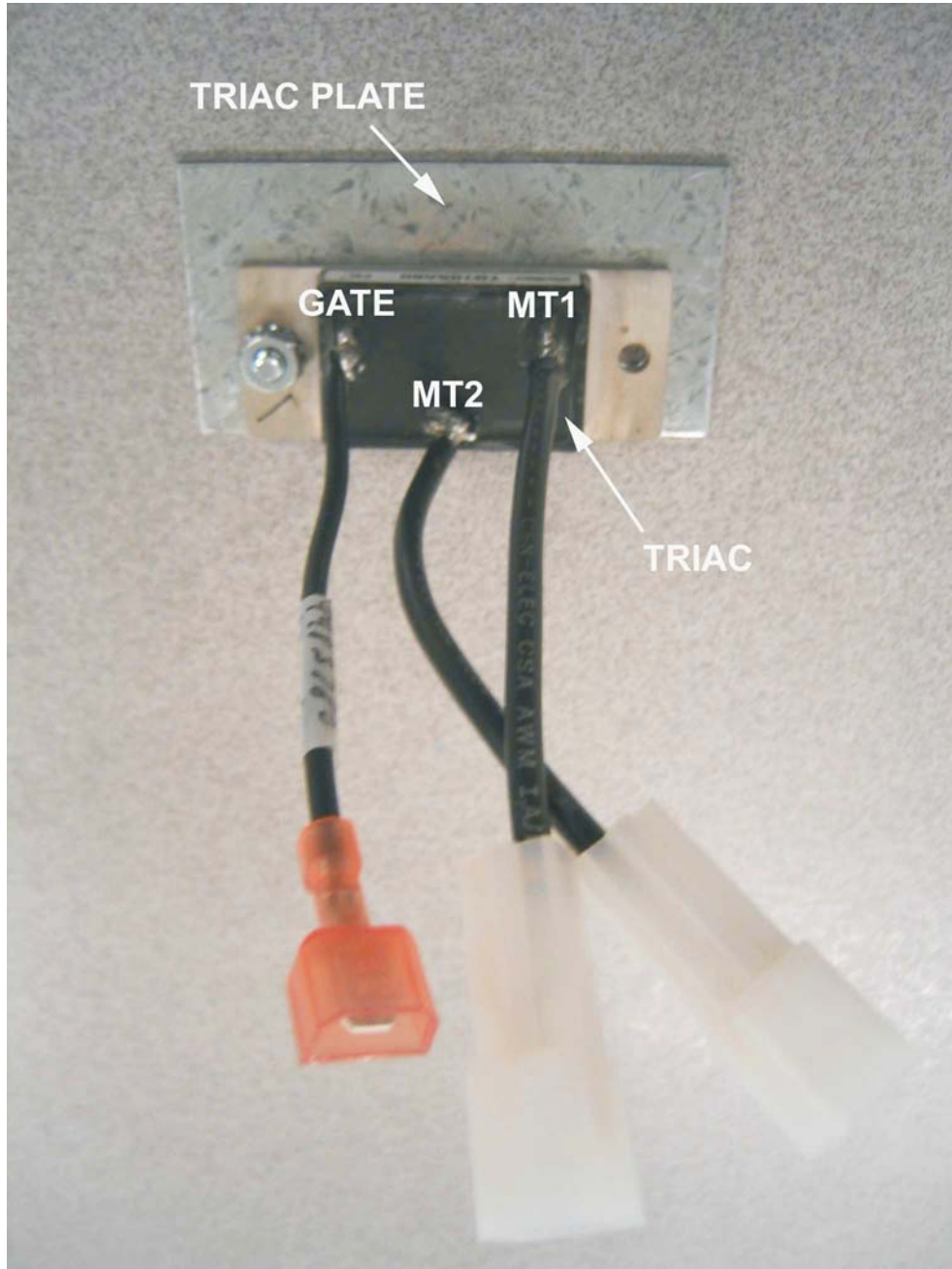


Figure 3

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6. Attach the new triac lead wires to the original triac harness and mount the Triac Assembly (9983780) in the location shown in Figure 4 using one of the original triac mounting screws. When mounting the assembly, position the Triac Plate so that it is flush against the top of the control chassis to prevent rotation.



Figure 4

7. Replace the lower door assembly cover and tighten the two screws.