
KIT PART NUMBER 4300070
INSTRUCTIONS FOR INSTALLING A 70 AMP TRIAC
IN A MODEL 430 SHOPPER WITH A 35 AMP TRIAC

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING, CONTACT THE NATIONAL VENDORS PARTS DEPARTMENT IMMEDIATELY.

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	QUANTITY
4300071	INSTRUCTIONS - 70 A TRIAC KIT - 430	1
4300072	PLATE - TRIAC ASSY - 430	1
9900081	NUT - #8-32 KEPS ZINC PLATE	2
9983780	TRIAC ASSEMBLY - 70 AMP	1

WARNING - ELECTRICAL SHOCK HAZARD

Turn off machine electrical power at the 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. Open the Monetary and Main doors and turn off electrical power to the machine using the Main Switch. Failure to turn off electrical power could result in a fatal electrical shock.

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3. Locate the Triac and Bracket Assembly, (p/n 4301417), on the refrigeration unit base as shown in Figure 1.



Figure 1

4. Disconnect the Triac and Bracket Assembly lead wires from the refrigeration assembly harness.
5. Remove the two #6-32 mounting screws (p/n 9900009) securing the Triac and Bracket Assembly to the cabinet and remove the entire Triac and Bracket Assembly from the machine.
6. With the Triac and Bracket Assembly out of the machine, remove the two triac mounting screws (p/n 9900009) and nuts (p/n 9900078) and disconnect the lead wires from the original triac.

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7. The Triac Assembly Plate (p/n 4300072) provided with this kit has two holes offset from the center. Mount the new 70 Amp Triac (p/n 9983780) to the plate so that the holes are offset to the **left** of MT2 (see Figure 2 below). Use the two #8-32 nuts (p/n 9900081) provided and make sure the triac is mounted securely to the plate.

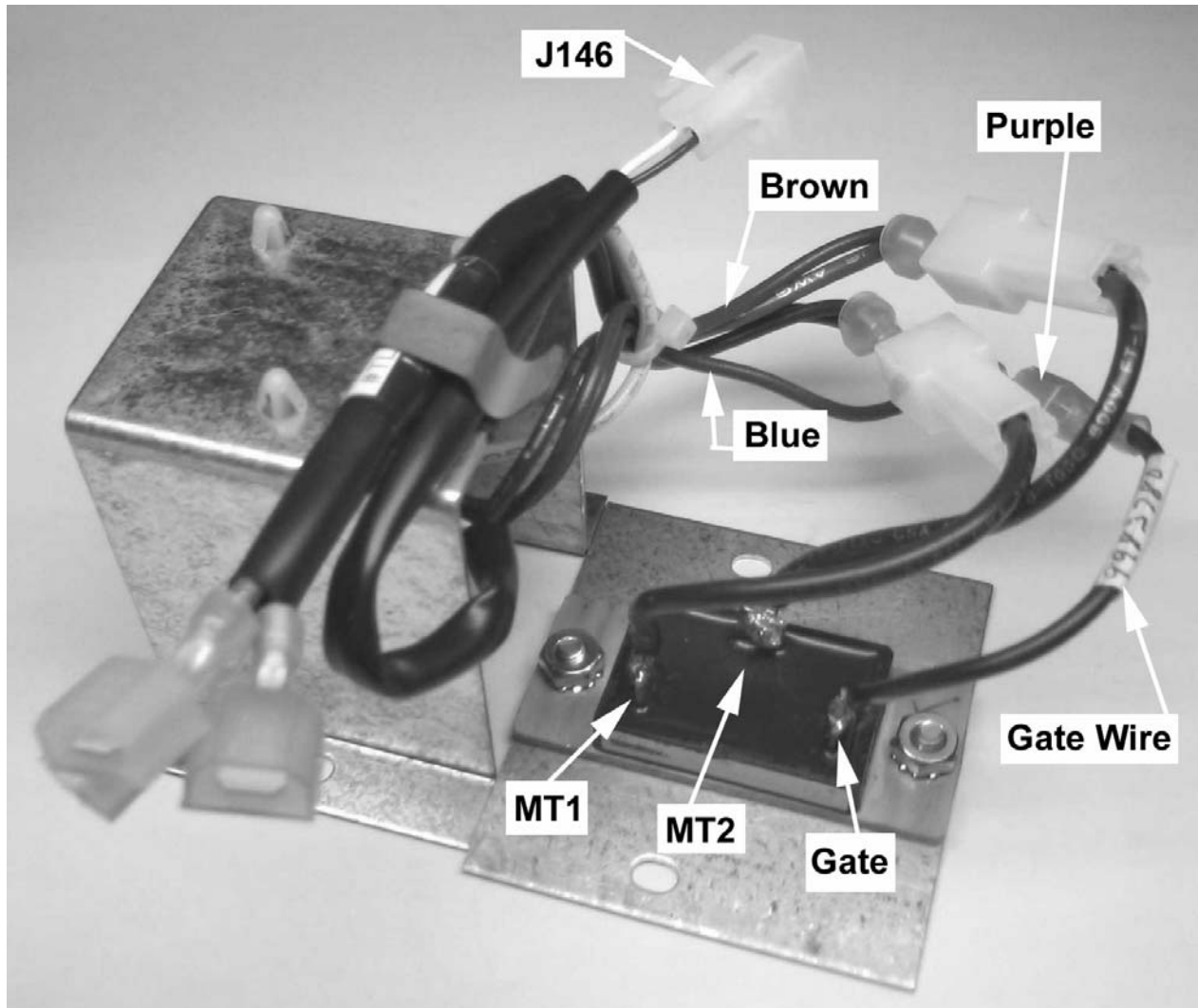


Figure 2

Important Note: Notice how the triac's three terminals form a triangle as shown in Figure 2. The thin black wire attaches to the triac Gate terminal. Connect that wire to the Purple wire in the original triac harness. The triac MT1 lead wire connects to the double crimped Blue wires and MT2 connects to the Brown double crimped harness wire. Make sure that the MT1 and MT2 connectors are attached to the proper harness connectors or the compressor will not turn on.

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8. Position the Triac and Bracket Assembly over the 70 Amp triac plate so the holes in the bracket and plate align as shown in Figure 3.

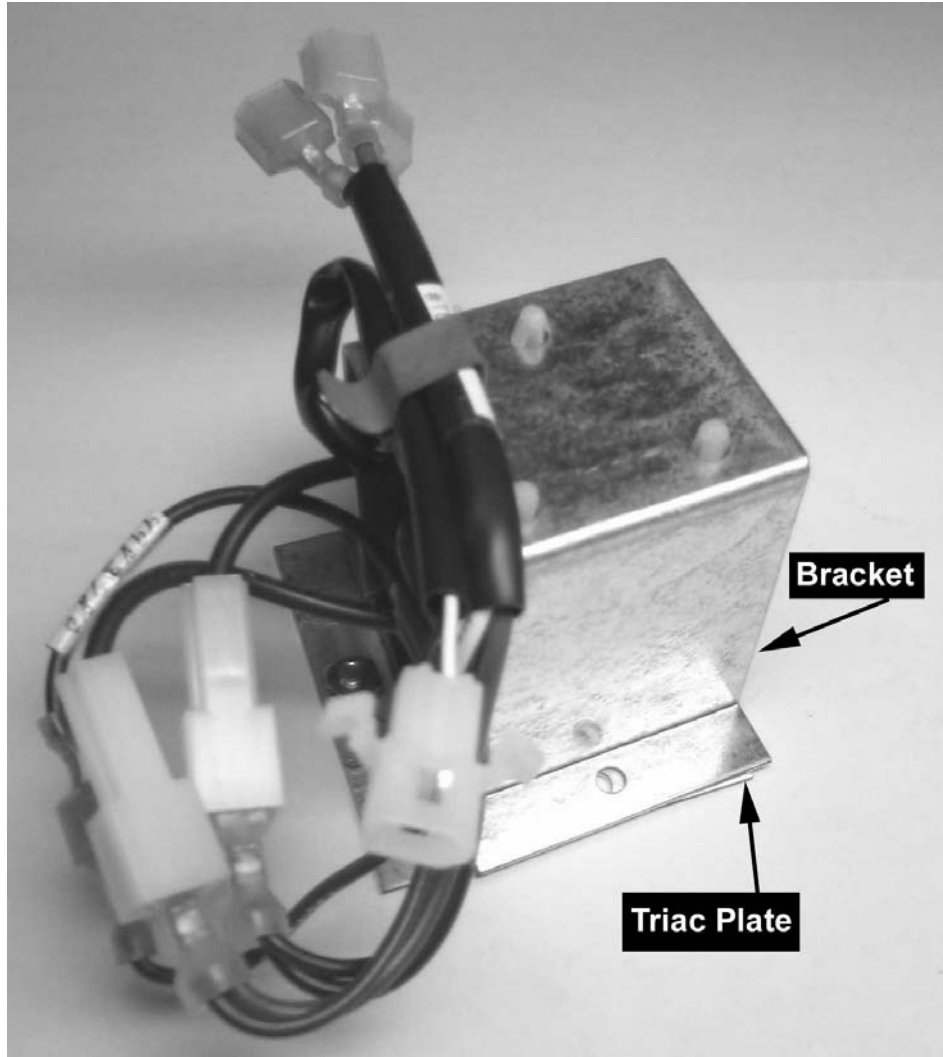


Figure 3

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9. Using the original #6-32 screws (p/n 9900009) and nuts (p/n 9900078), attach the revised Triac and Bracket Assembly to the refrigeration unit base as shown in Figure 4.

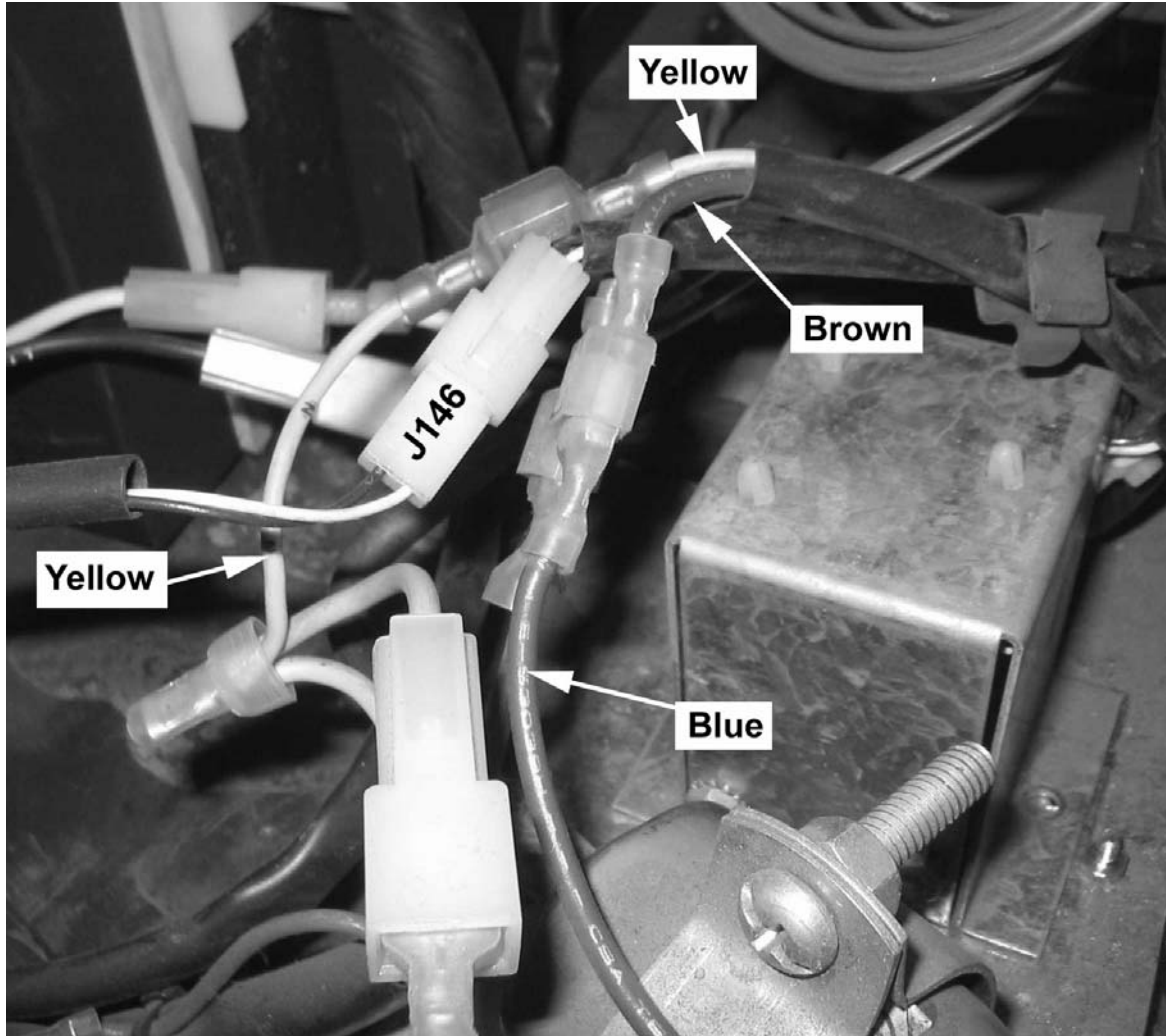


Figure 4

10. Connect the Brown triac assembly wire to the Blue compressor harness wire, the Yellow wire to the Yellow wire in the existing cabinet harness and the Blue triac assembly wire to the Blue wire in the cabinet harness (not visible). Connect the two-pin DC harness to J146 as shown in Figure 4.
11. Return electrical power to the machine.