
KIT PART NUMBER 4300050
INSTRUCTIONS FOR INSTALLING SOLID STATE UPGRADE KIT

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
4302641	PCB ASSY	1
4301416	PCB ASSY.-MOTOR DIR.-SOLID STATE	1
4744032	INSULATOR-PCB	1
1402100	CLIP-WIRE	1
4301413	JUMPER-DC TO REFR.TRIAC	1
4042121	WIRE TIE-#PLT1M-M20	6
4300061	KIT-INSTRUCTIONS	1
4301409	BRACKET-REFRIGERANT TRIAC	1
4301411	JUMPER-TRIAC ASSY TO CABIN	1
9900078	NUT #6-32 KEPS ZINC PLATE	3
9900107	SCREW-#6-32 X 5/16-RHS-W/L	2
9983778	TRIAC-35A-600V	1
9989430	SPACER-CHASSIS TO PCB-.25	3
9989832	PCB ASSY.-TRIAC DRIVER	1

1. Remove power from machine at outlet.
2. Remove the old interface PCB assembly from the air duct assembly.
3. Disconnect the harnesses from the compressor relay and remove the relay from the compressor mounting base.
4. Save all the mounting hardware from everything you removed in steps 1 through 3.
5. Install the new interface board assembly (1) in the same location as the old one.
6. Install the new motor direction PCB assembly (2) and insulator (3) on the support assembly. Align the insulator on the right side of the PCB so that it will be between the PCB and the turret motor when installed in the machine. Secure the insulator **between** the PCB assembly and the standoffs as shown (See Figure 1).

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7. Install the triac and bracket assembly (4) on the compressor base using the same mounting holes from the refrigeration relay.
 8. Install the dc jumper (5), from the new interface,PCB assembly (1) to the new motor direction assembly (2) and the refrigeration triac and bracket assembly (4).

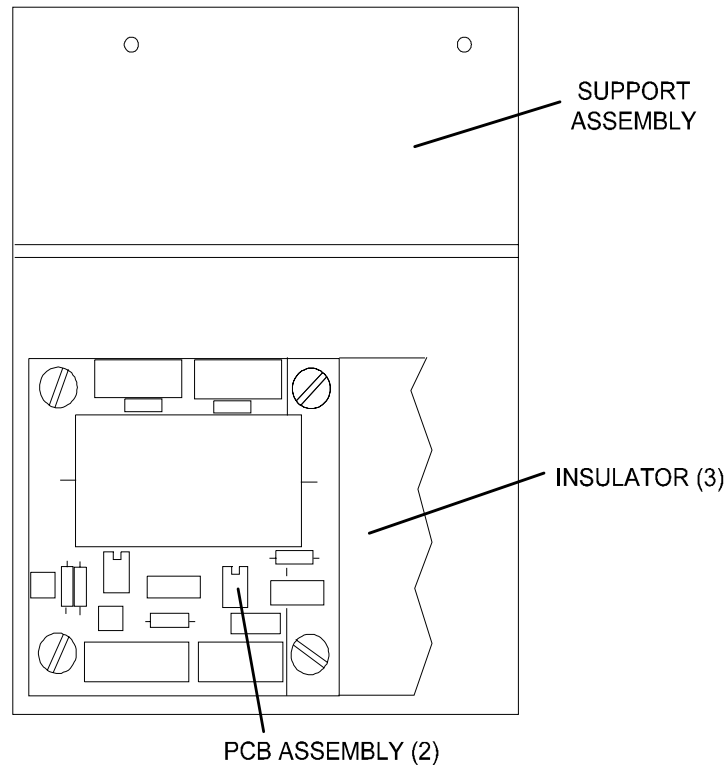


Figure 1

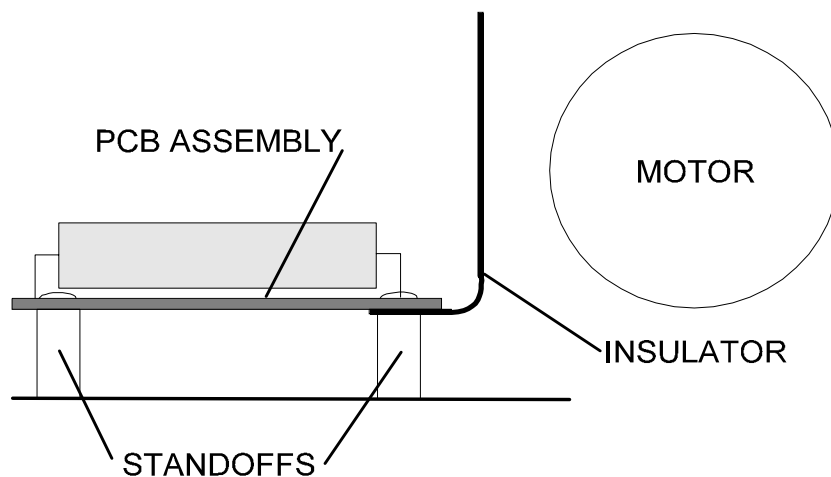


Figure 2

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9. Connect the wiring harness from the triac and the bracket assembly (4) to the existing wiring harness as follows (See Figure 2):

TRIAC AND BRACKET ASSEMBLY

Brown
Yellow
Blue

MACHINE

Blue from compressor
Yellow from cabinet harness
Blue LA2 from cabinet harness

10. Tie the red no. 2 wire back into the cabinet harness with one wire tie (6).
11. Using the remaining wire ties (6), attach the dc jumper (5) to the existing wire harness from the machine.

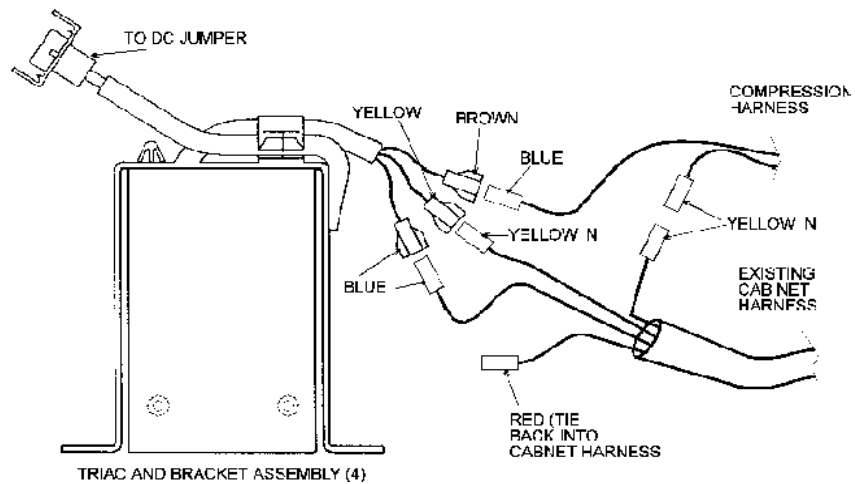


Figure 3