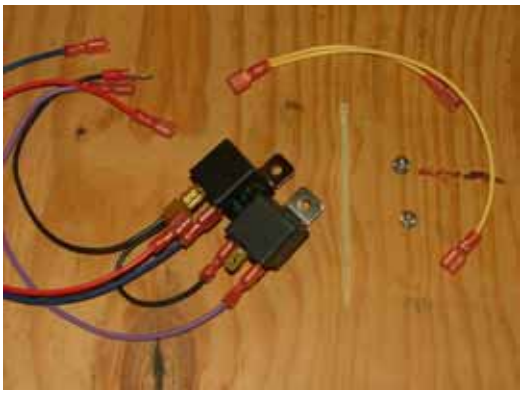
Installation Instructions for 2 Relay Thermostat Mod on N300.3

(Unlike the original installation, this mod requires 12 volts to control the relays, even in AC mode.)

1. The kit contains the parts shown in Picture 1. The relays are Tyco p/n 0-1432772-1, 12 volt with 30 amp contacts. There is one small yellow wire with 3 connectors that is loose, along with a tie wrap and 2 screws. The relay with the splitter and red wire is for DC mode. The one with the violet wire is for AC mode.
2. Picture 2 is looking at the front of the fridge from the top.
3. Picture 3 is looking from the back.
4. Picture 4 is the finished wiring for the switch and thermostat.
5. Mount the relays on the little raised metal bracket behind the thermostat (seen in picture 3) using the screws provided. They have ¼" heads and will need to cut threads in the holes as they are inserted. It will be safest to mount the AC mode relay closest to the safety valve in the gas line as shown in Pictures 7 & 8. Be sure to connect the ring terminal of the black wire from the relays under one of the mounting screws as shown in picture 8.
6. Remove the black wire on terminal AC1 of the switch, lower left of picture 3. Connect it to the lower terminal of the AC mode relay.
7. Remove both wires connected to the thermostat, Picture 5, two arrows. Connect the heavy wire you took off of the thermostat to the top terminal on the AC mode relay as shown on the right of picture 7. I've found this wire may be yellow or brown, so far. Also remove the other end of the second wire from terminal W1 on the switch, lower right (mostly hidden) in picture 3. This removed wire won't be used.
8. Connect the violet wire on the AC mode relay to the lower right switch terminal, W1.
9. Remove the heavy yellow wire from terminal W2 on the mode switch, Picture 6, and connect it to the bottom terminal on the DC mode relay as shown on the left of Picture 7.
10. Connect the blue wire from the DC mode relay to terminal W2 on the switch
11. Remove the white wire that is on terminal DC2 of the mode switch, Picture 9, and connect it to the splitter with the red wire on the DC mode relay.
12. Connect the red wire from the DC mode relay to one terminal of the thermostat, Picture 4.
13. Connect one of the terminals of the yellow wire to terminal AC1 and another to terminal DC2 on the switch. These should be the connectors that are close together. Connect the end of the longer part to the empty terminal of the thermostat. All shown in Picture 4.
14. You can use the tie wrap to neaten things up a little if you like.

If my instructions have been clear and you haven't run into any snags, you're now done! Try the fridge in each mode, 120 volt and 12 volt, to make sure they both work, probably 12-24 hours each to be sure.

Turning the mode switch to Off will remove the 12 volts used to control the relays. This will allow you to leave the thermostat at any setting and still not drain your batteries.

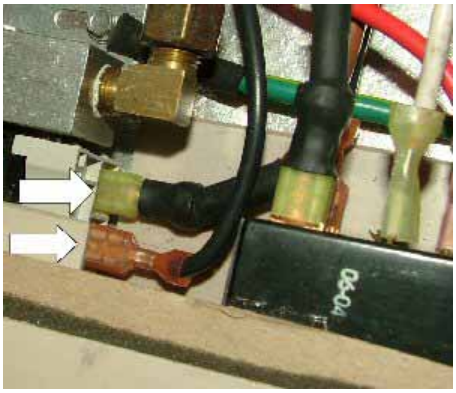


Picture 1

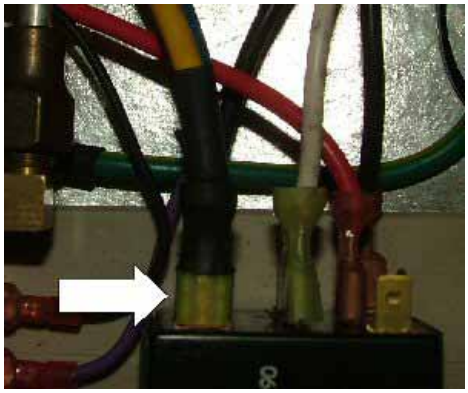
Picture 2

Picture 3

Picture 4



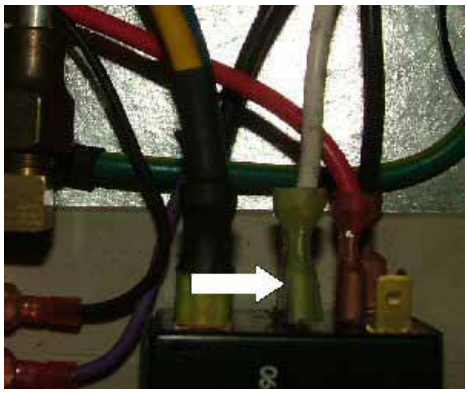
Picture 5



Picture 6

Picture 7

Picture 8



Picture 9