

## Replacement Thermostat MODEL RFTH-95

**For use with NuTone RF-49, RF-59, RF-68, RF79, RF85, GF-900 and GF-1200 Series Roof and Gable Fans only.**

**Caution: Before attempting to replace fan thermostat, be sure to switch power off at service panel and lock service panel to prevent power from being switched on accidentally. If service panel cannot be locked securely, fasten a prominent warning device, such as a tag to the service panel.**

1. Disconnect electrical power to the fan at the breaker box.
2. Locate the wiring box/thermostat enclosure in the attic near the fan. Use flat blade screwdriver under edge of cover to remove cover from box. For early production units, with square wiring box, remove screw and lift off cover.
3. Inside the wiring compartment, disconnect the black, white and green ground wires coming from the house supply. Remove the supply wires from the wiring box. If the supply cable is secured to the wiring box with a box connector, remove the nut securing the box connector to the wiring box. Remove the cable and box connector and save nut for reuse.
4. Locate the wires, in the wiring box, coming from the fan motor. Disconnect the black and white wires. In early production models a green colored ground wire from the motor is used. Disconnect this ground wire from the wiring box. If a box connector is used to secure the motor cable to the box, remove the nut securing the connector and remove the cable, saving the nut for reuse. For models with a plastic snap-in strain relief bushing, compress the bushing with a pair of channel lock pliers and remove from the wiring box. For later production units, depress tabs on either side of the cable connector and remove connector and cable from the wiring box.
5. Remove old wiring box/thermostat enclosure from its mounting surface and mount the replacement box and thermostat in its place. If the old box cannot be easily removed, the new box can be mounted next to the old box. Make sure the supply wiring and motor wiring is long enough to reach the new box. Remove the cover from the new wiring box.
6. Connect the motor wiring to the new wiring box/thermostat enclosure using the box connector, strain relief bushing, or cable connector removed in step 4 above.
7. Reconnect the house supply cable to the wiring compartment.
8. Wiring connections should be made using approved twist on wire connectors. Secure the house supply green or bare ground wire under the green ground screw in the wiring box. If the fan motor is supplied with a green ground wire, connect this ground wire along with the house supply ground under the green ground screw in the wiring compartment. Connect the white wire from the motor to the white house supply wire. Connect the black wire from the fan motor to one of the black wires coming from the thermostat. Connect the black house supply wires to the other black wire coming from the thermostat.
9. Replace the cover on the wiring box/thermostat enclosure. Restore electrical power at the breaker box.
10. Fan operation may be checked by turning the thermostat down to the lowest temperature setting. (Attic temperature must be at least 60 degrees F to test in this manner) It is recommended that the thermostat be set for approximately 110 degrees F for normal operation.

## MOUNTING THERMOSTAT OUTLET BOX

**IMPORTANT:** Do not mount outlet box near heat source.

1. Mount the outlet box to a nearby rafter so that the outlet box is higher than the fan motor.

## THERMOSTAT ADJUSTMENT

The fan thermostat is preset at 110°F. The fan will automatically start when the ambient temperature reaches that level and stop when the temperature drops 10 degrees below the set temperature. Starting temperature can be adjusted from 70°F to 130°F.

## TROUBLESHOOTING

| TROUBLE  | POSSIBLE REMEDY   |
|--|---|
| Fan runs constantly, will not shut off.  | Raise thermostat setting. If fan shuts off, see above. If fan does not shut off, have thermostat checked.                                       |
| Odors from fuel used for heating purposes (gas or fuel oil) in living areas of home. | Check to make sure that there is enough make up air entering the attic. At least one square foot of opening for every 300 CFM of fan is needed. |

## WIRING

**CAUTION:** Be sure fan and switches are properly grounded and all wiring complies to local electrical code requirements for 120vAC, 15 amp circuit.

1. Run 120vAC power wiring to the thermostat outlet box and secure with box connector. Use 14 gauge wire with ground. See wiring diagram.
2. It is suggested that an on/off switch be installed in a convenient location in the living quarters of the house so the fan may be turned off when not needed.

FIGURE 5

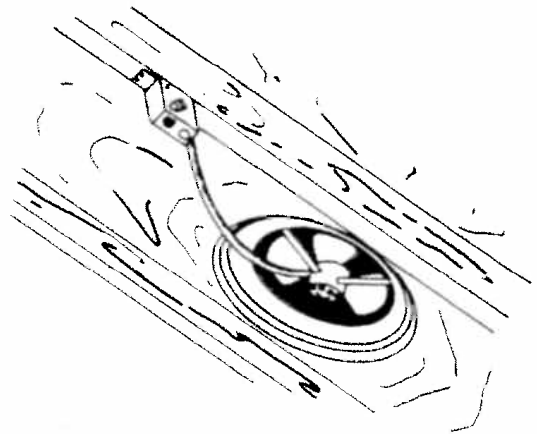


FIGURE 6

