

Installation Instructions

for the 160-1410 Large WinterWarm Rheostat



Tools needed: ratchet socket wrench with standard 7/16" socket and extension, or deep-well socket; Phillips screwdriver; 3/32" Allen wrench; wire cutter; wire stripper

The WinterWarm rheostat is in a steel box on top of the left junction box, at the base of the left column of the fireplace insert.

Throughout these instructions, 'left' and 'right' mean as you face the fireplace insert.

For WinterWarm insert installations (in a masonry fireplace) start by unplugging the power cord from the outlet.

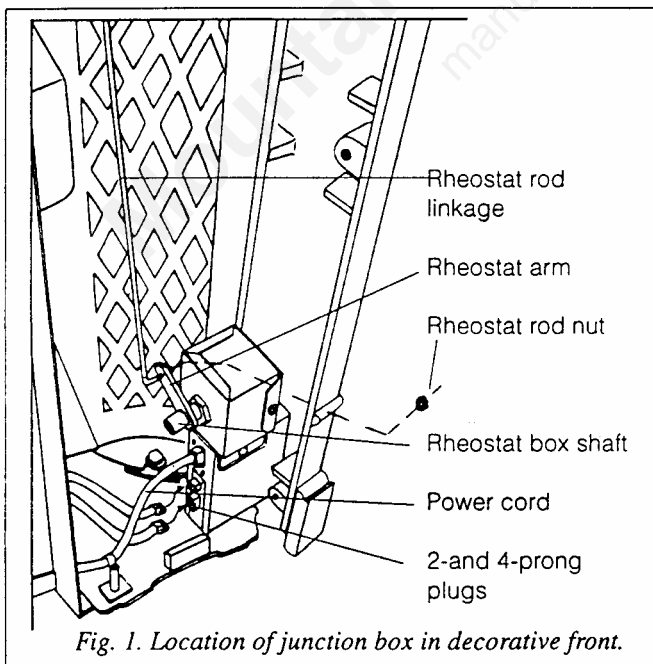
Remove the left junction box

The rheostat attaches to the top of the left junction box.

1. To remove the left junction box, start by using masking tape to hold the left and right outer grilles to the rest of the insert's decorative front. Lift off the mantel from the top of the insert front. It is heavy; handle it carefully, especially if it is enameled. Set it down on a soft padded surface, away from the insert.

2. Remove the tape from the left outer grill. Hold it to keep it from falling. Lift the grill till its bottom clears the base of the front. Set it aside carefully.

3. Reach through the opening on the left outer side of the left column, and set the rheostat arm in a vertical position. Remove the nut from the rheostat wire link. Disconnect the link from the arm, and replace the nut on the link. Leave the link in place.



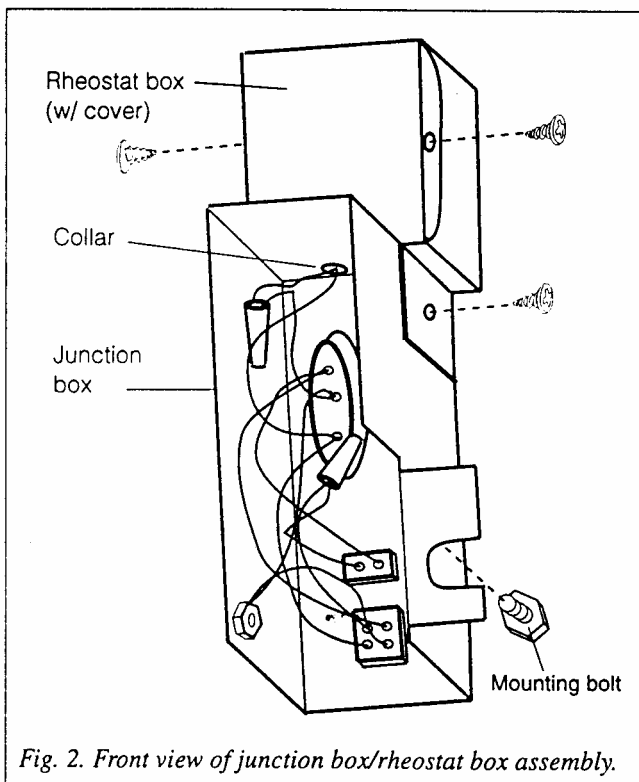
4. Reach through the opening on the left outer side of the left column, and remove the power cord (if installed on the left side), and the two-prong and 4-prong power cords from the left junction box. The two-prong and 4-prong cords have locking clips which you must squeeze to release them from the junction box. If the power cord is installed on the right side of the fireplace insert front, remove the right outer grille and disconnect the power cord from the right junction box.

5. Reach through the left outer grille opening with a 7/16" socket and extension on a ratchet wrench. Turn the hex bolt holding the left junction box assembly to the base, about 2 turns. **DO NOT REMOVE THE BOLT.**

5. Slide the junction box assembly to the left, to release it from the bolt, and take it out through the opening in the decorative front.

Remove the rheostat

1. With the left junction box assembly removed from the insert, check the wiring on the open (front) side of the junction box. *Early units* have continuous wires from the rheostat to the connectors on the junction box. For these units, cut the two red wires and one black wire, at the collar between the junction box and the rheostat box. See Fig. 2. *Later units* have wire nuts on the wires between the rheostat box and the junction box; unthread these nuts.



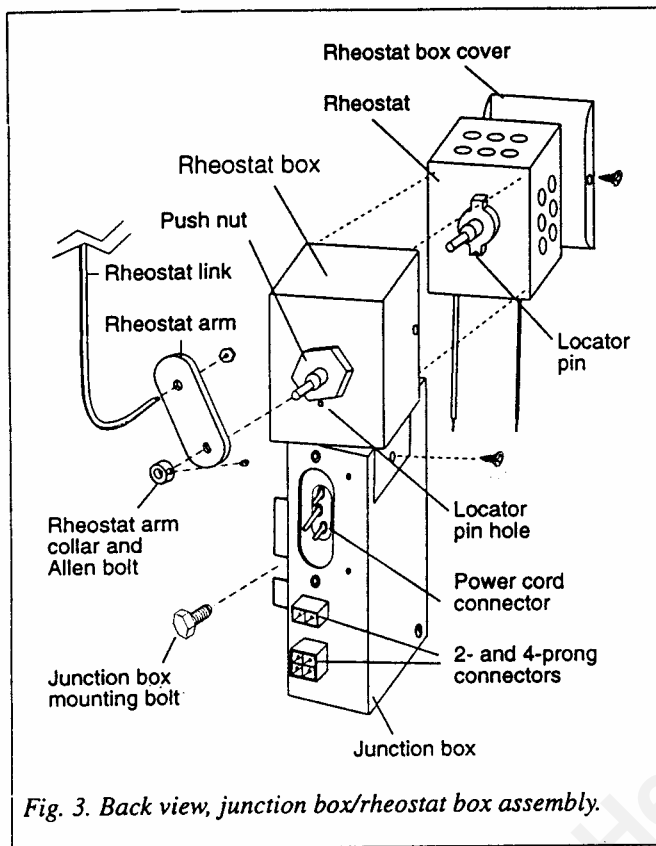


Fig. 3. Back view, junction box/rheostat box assembly.

2. (early units) Remove the two sheet metal screws holding the rheostat box to the junction box. Pull the two boxes apart. See Fig. 2.
2. (later units) Remove the two sheet metal screws holding the rheostat box cover to the rheostat box. Remove the cover.
3. (all units) Use a 3/32" Allen wrench to loosen the retaining collar on the rheostat shaft. Remove the collar and the arm. See Fig. 3.
4. (all units) Remove the push nut from the rheostat shaft. See Fig. 3.
5. (early units) Remove two sheet metal screws holding the rheostat cover to the rheostat box. Remove the cover. See Fig. 3.
6. (all units) Remove and discard the rheostat.

Install the new rheostat

1. Put the new rheostat into the rheostat box. NOTE THE POSITION OF THE RHEOSTAT; install it as shown in Fig. 3. Position the rheostat with the locator pin at the base of the shaft toward the bottom of the rheostat box, so it engages the hole in the back side of the rheostat box. *Later units:* When putting the rheostat into the rheostat box, first pass the wires through the collar on the top of the junction box.
2. Put the push nut on the rheostat shaft and slide it on as far as possible. Check that the locator pin engages the hole in the back of the rheostat box. Replace the rheostat box cover, fasten it with two sheet metal screws.

3. (early units) Pass the two rheostat wires through the collar on the junction box. Use two sheet metal screws to fasten the rheostat box to the junction box.

4. (early units) Strip 1/4" of insulation off the two red wires and one black wire remaining in the junction box.

5. (all units) Use a wire nut to join the black wire from the junction box to the black wire from the rheostat.

6. (all units) Use a wire nut to join the two red wires from the junction box to the white wire from the rheostat.

7. (all units) Pack the wires back into the junction box and hold them in place with a cable tie. Cut any extra length off the cable tie.

8. (all units) Install the rheostat arm on the rheostat shaft, and keep it in place with the retainer collar. Fasten the collar on the shaft with the Allen wrench. Make sure the Allen bolt bears against the flat part of the rheostat shaft. Make sure the arm pivots fully.

Re-install the junction box assembly

1. Reach the junction box/rheostat box assembly through the opening on the left outer side of the front assembly. The side of the assembly with the power cord sockets faces to the rear. Slide the slot on the junction box cover under the head of the 7/16" bolt, and tighten the bolt with the ratchet wrench.

2. Re-attach the lower rheostat wire link to the rheostat arm. Aim the arm toward the outside of the left column to attach the nut. Secure the link with the nut. Make sure the fan speed control arm moves the rheostat arm properly. The lower of the two control knobs at the top left corner of the fireplace front controls the fan speed. Moving the knob completely to the left shuts the fans off; you should hear a click from the rheostat when you slide the knob fully to the left. If not, check the positioning of the rheostat arm and lower wire link; it should be as shown in Fig.1.

3. Re-attach the two-prong and four-prong wire plugs to the junction box. Swing the fan control knob, at the top left of the insert, fully to the left to ensure that the rheostat is in the OFF position. Plug the power cord into the junction box it was originally plugged into. Test the fans by sliding the fan control knob slightly to the right to be sure the fans turn on.

Complete the installation

Handle the parts of the decorative front carefully, especially if they are enamelled.

1. Replace the left outer grill (and the right outer one, if you removed it) and hold them in place temporarily with masking tape.

2. Carefully replace the mantel assembly by lowering it onto the top of the main part of the insert's decorative front assembly. Two threaded studs on the bottom of the mantel assembly engage holes in the top of the fireplace insert. Tilt the assembly to the rear against the upper shroud flange, with the shroud flange in front of the back rib on the mantel. Push against the flange slightly before lowering the front edge of the assembly. Be sure the mantel assembly captures the tops of the outer grille panels. Remove the masking tape.