

COMPONENT ACCESS AND REMOVAL

This section explains how to adjust, access and remove components in a model WD30 Warming Drawer.

An attempt has been made to arrange these procedures in such a way as to simulate which components would need to be removed first in order to gain access to other components. When following a component removal procedure, it may be necessary to reference another component removal procedure listed earlier in this section.

NOTE: Before continuing, please take note of the **WARNINGS** and **CAUTIONS** below.

WARNING

- **IF IT IS NECESSARY TO REMOVE A WARMING DRAWER FROM ITS INSTALLATION, REMEMBER THAT THE UNIT IS HEAVY AND COULD TIP AND/OR FALL WHEN PULLED FORWARD BEYOND THE ANTI-TIP COMPONENTS, RESULTING IN SERIOUS INJURY OR DEATH. PULLING A UNIT FROM ITS INSTALLATION SHOULD ONLY BE PERFORMED BY AN AUTHORIZED SERVICE TECHNICIAN OR INSTALLER.**
- **TO AVOID ELECTRIC SHOCK, POWER TO THE UNIT MUST BE DISCONNECTED WHENEVER ACCESSING AND/OR REMOVING COMPONENTS POWERED BY ELECTRICITY OR COMPONENTS NEAR OTHER ELECTRICAL COMPONENTS. IF THE UNIT IS PLUGGED IN, BUT HAS NOT BEEN SWITCHED ON BY PRESSING THE UNIT ON/OFF KEY, 115 VOLTS AC IS STILL PRESENT AT THE POWER BOARD.**
- **IF REMOVING THE DRAWER, REMEMBER IT IS HEAVY. IF IT WERE TO FALL IT COULD CAUSE SERIOUS PERSONAL INJURY.**

CAUTION

- **Metal edges may be sharp. Use caution when servicing the unit to avoid personal injury.**
- **The heating element can get very hot. To avoid personal injury use caution when servicing the unit, making sure the heater has cooled before working on or around it.**
- **If accessing components under the shell, the insulation must be properly reinstalled and positioned. Failure to do so may lead to damage to the surrounding cabinetry.**
- **Low voltage is used for most electronic control components. To avoid damaging the appliance, do NOT apply 115V AC to electronic control components.**

Wire Rack

The wire rack sits in the stainless steel drawer box. To remove the rack, open the drawer fully and lift the rack out of the box. (See Figure 4-1)

Stainless Steel Drawer Box

The side and back flanges at the top of the stainless steel drawer box rest on top of the drawer frame. Begin removing the drawer box by opening the drawer fully. Then, at the center of the right and left side flanges, lift the drawer box up out of the drawer frame. (See Figure 4-1)

Vent Slide Components

The back tabs and pegs of the slide knob fit into a slot and holes in the vent slide.

Threaded studs are welded to the face of the drawer frame. The vent slide is placed on the face of the drawer frame with the studs passing through slots in the slide. A shoulder washer is placed over each stud to take up the difference in size between the stud and the slot. A lock washer and nut are placed on each stud and the nuts are snugged down.

To remove the vent slide components, the drawer panel will need to be removed first. With the panel removed, the slide knob can be removed by depressing the tabs at the rear and pushing the knob out of the slot in the vent slide. (See Figure 4-2)

To remove the vent slide, extract the nuts, lock washers and shoulder washers from the threaded studs and pull the vent slide from the face of the drawer frame. (See Figure 4-2)

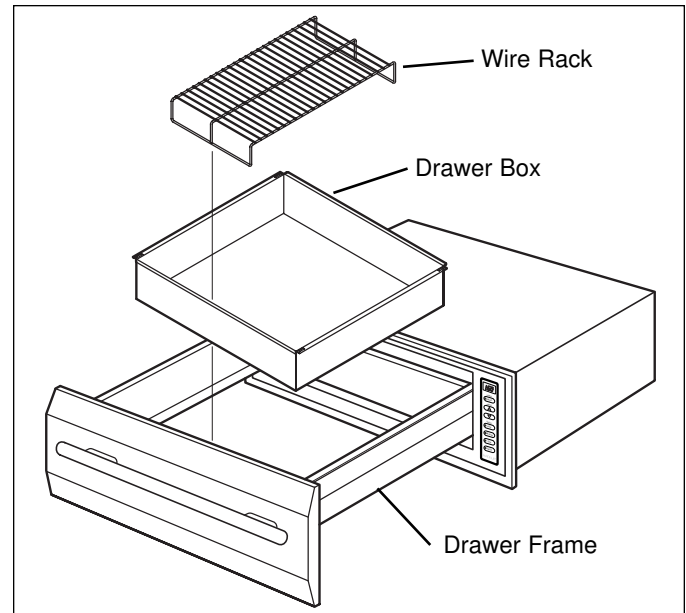


Figure 4-1. Wire Rack & Drawer Box Removal

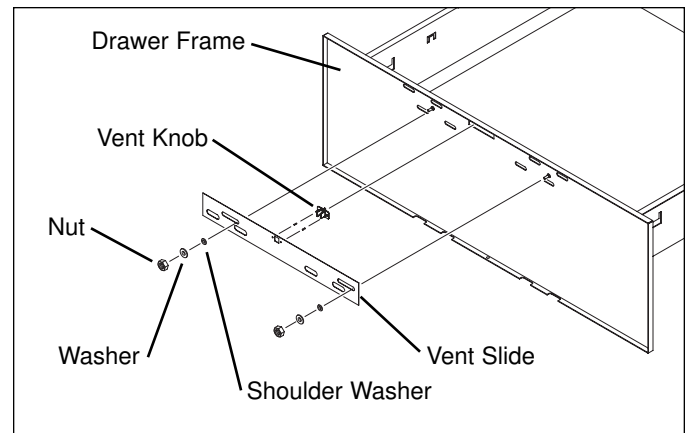


Figure 4-2. Vent Slide Components

Drawer Frame

The drawer frame is attached to the drawer glide assemblies. Three tabs on each side of the frame (one at the front, middle and back) lock into slots in the inner rail of each glide assembly.

To remove the drawer frame, begin by opening the drawer fully. At the center of either side, insert a straight blade screwdriver down between the frame and the glide rail far enough to disengage the middle locking tab (See Figure 4-3), then lift the front of the frame up to disengage the front tab. Repeat these steps for the other side. Now, pull the frame forward while holding the rails away from the frame to disengage the rear tab from the rail.

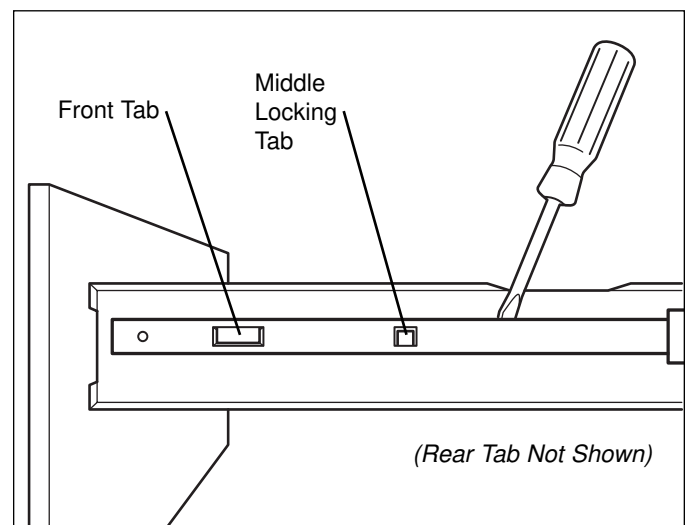


Figure 4-3. Drawer Frame Removal

Drawer Glide Assembly

The drawer glide assemblies are attached to the side walls of the warming drawer cavity by two tabs on the back side of each glide, one at the rear pointing back and one toward the front pointing down. The rear tab is inserted back into a slot in the cavity side wall and the front tab is inserted down into another slot in the side wall. With the glide rails fully extended, a hex-head mounting screw is inserted through a clearance hole of the outer glide rail and into the mounting hole in the glide frame. Once the mounting hole is aligned with the hole in the side wall, the screw is tightened, holding the drawer glide assembly in place.

To remove a drawer glide assembly, the drawer box and drawer frame must first be removed. Then, fully extend the glide rails. Locate the mounting screw inside the clearance hole of the outer glide rail. With a thin walled 1/4" nut-driver or socket, extract the mounting screw (See Figure 4-4). Lift the front of the glide assembly up and toward the middle of the appliance to disengage the front tab from the slot in the side wall, then pull the drawer glide assembly forward to disengage the rear tab.

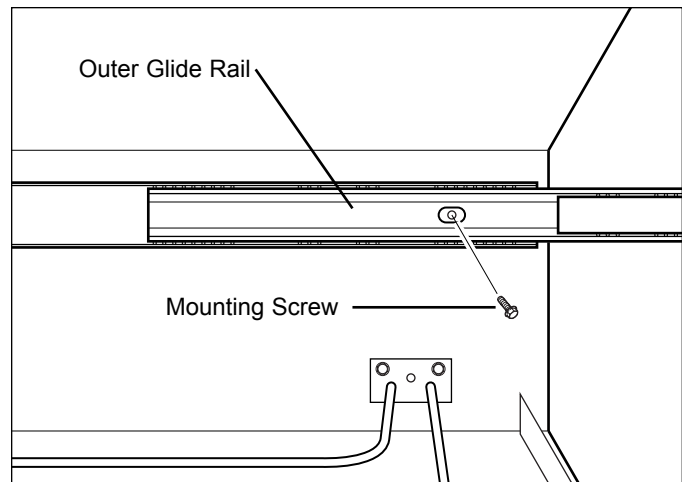


Figure 4-4. Drawer Glide Removal

Wire Box Cover

The wire box cover is attached to the right side of the warming drawer, toward the front, with screws.

To access the wire box cover, the appliance will first need to be removed from its installation. Then, extract the screws that secure the cover to the side of the appliance and pull the cover off. (See Figure 4-5)

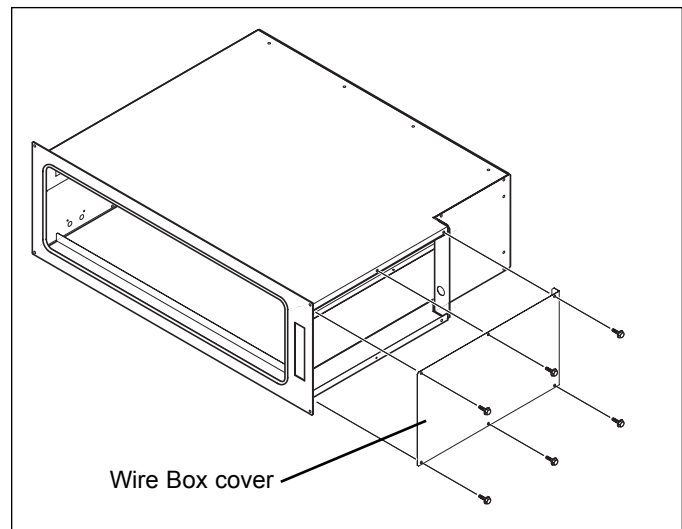


Figure 4-5. Wire Box Cover Removal

Heat Element

The electrical terminals of the heat element pass through holes in the right side wall of the warming drawer cavity. Wire leads are connected to the heat element terminals behind the right side wall. The bracket which holds the ends of the heat element is secured to the right side wall with two screws. Two J-clips hook over the top of the element and are secured to the floor of the warming drawer cavity with screws.

To access the heat element, the drawer box and drawer frame must first be removed; the appliance must then be extracted from its installation and the wire box cover must be removed. Then, extract the J-clip mounting screws from the floor of the cavity and remove the J-clips (See Figure 4-6). Unplug the electrical leads from the terminals. Extract the element bracket mounting screws from the right side wall. Pull the heat element to the left so that the electrical terminals are in the cavity and lift the heat element out of the cavity.

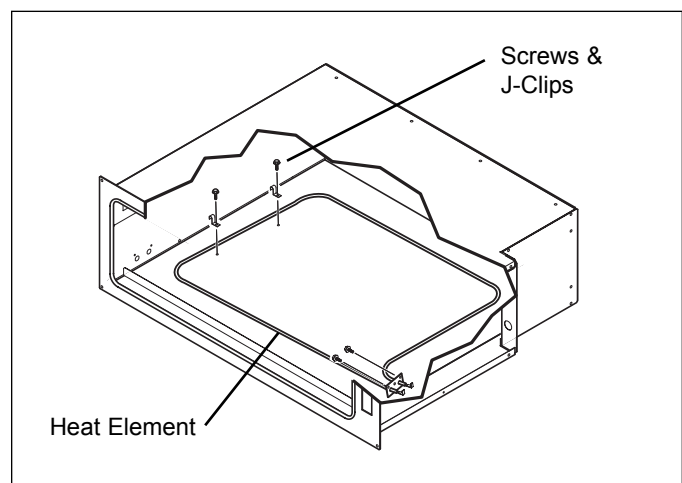


Figure 4-6. Heat Element Removal

Power Cord

The wire leads of the power cord pass through a hole in the control panel cover. The wire grommet on the power cord holds the cord in place in the control panel cover. The power and neutral wires of the power cord are attached to the power board, with the ground wire attached to the grounding stud on the cavity.

To access the power cord, the appliance will first need to be extracted from its installation and the wire box cover will need to be removed. Then, gently pull the insulation away from the appliance and unplug the power and neutral wires from the power board. Disconnect the ground wire from the grounding stud and pull the wires through the hole in the control panel cover. (See Figure 4-7)

NOTE: Prior to Serial #13005870, the MOV's and filter are part of the power cord assembly, and they must be used with the power cord to avoid stray voltage issues. Starting with Serial #13005870, the MOV's and filter were moved to the power board.

Control Panel Cover

The control panel cover is attached to the right side of the warming drawer, toward the rear, with screws.

To access the control panel cover, the appliance will first need to be removed from its installation. Then, extract the screws that secure the cover to the side of the appliance and pull the cover off. (See Figure 4-8)

Power Board

The power board is attached to the right side of the drawer cavity with threaded studs and nuts. Spacers on each threaded stud keep the power board from contacting the cavity.

To access the power board, the appliance will first need to be extracted from its installation and the wire box cover will need to be removed. Then, unplug all wire connections from the power board. Extract the nuts from the threaded studs and pull the power board away from the side of the cavity. (See Figure 4-9)

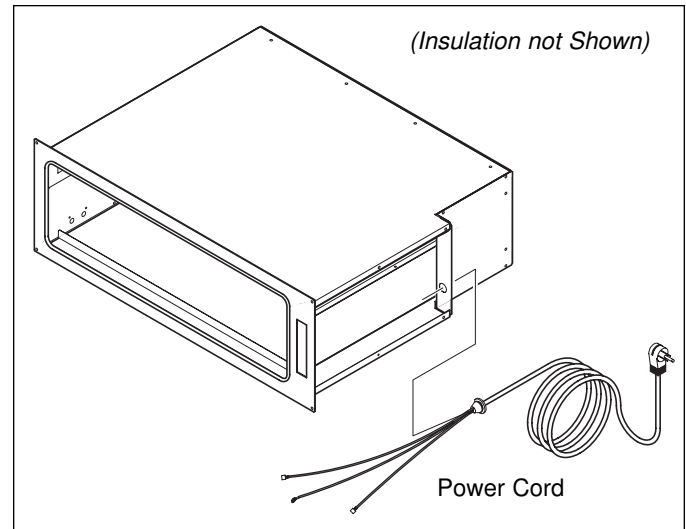


Figure 4-7. Power Cord Removal

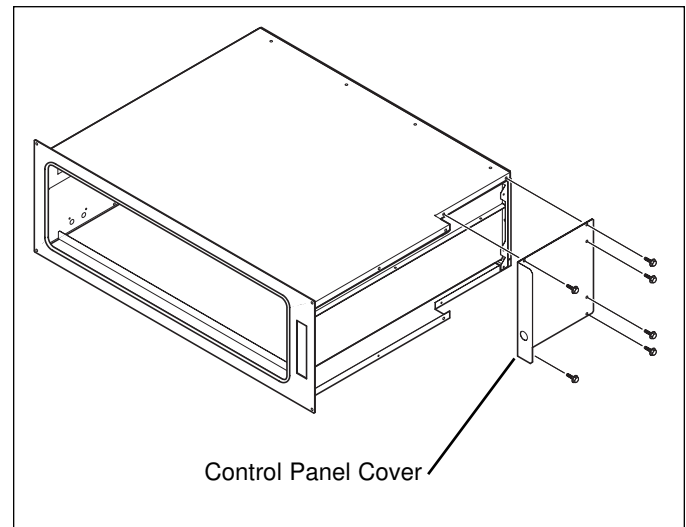


Figure 4-8. Control Panel Cover Removal

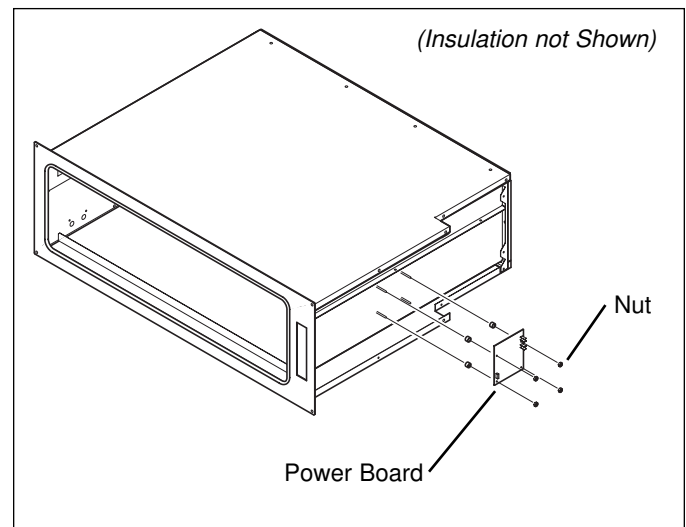


Figure 4-9. Power Board Removal

Top/Left Side Wrap and Bottom/Back Wrap

The top/left side wrap and the bottom/back wrap are attached to each other and the cavity with screws.

To access and remove the wraps, the appliance will first need to be extracted from its installation and the wire box cover and control panel cover will need to be removed. Then, extract the screws from the top/left side wrap and lift it off of the cavity. Now, extract the screws from the bottom/back wrap. Slide the bottom/back wrap toward the rear of the unit to disengage the rear flange from the cavity and lift the cavity off of the bottom/back wrap. (See Figure 4-10)

Control Board

The control board is attached to the back of the front plate with threaded studs and nuts.

To access and remove the control board, the appliance will first need to be extracted from its installation and the wire box cover, control panel cover and top/left side wrap will need to be removed. Then, unplug the wire connections from the boards. Extract the nuts from the threaded studs and pull the board away from the front plate. (See Figure 4-11)

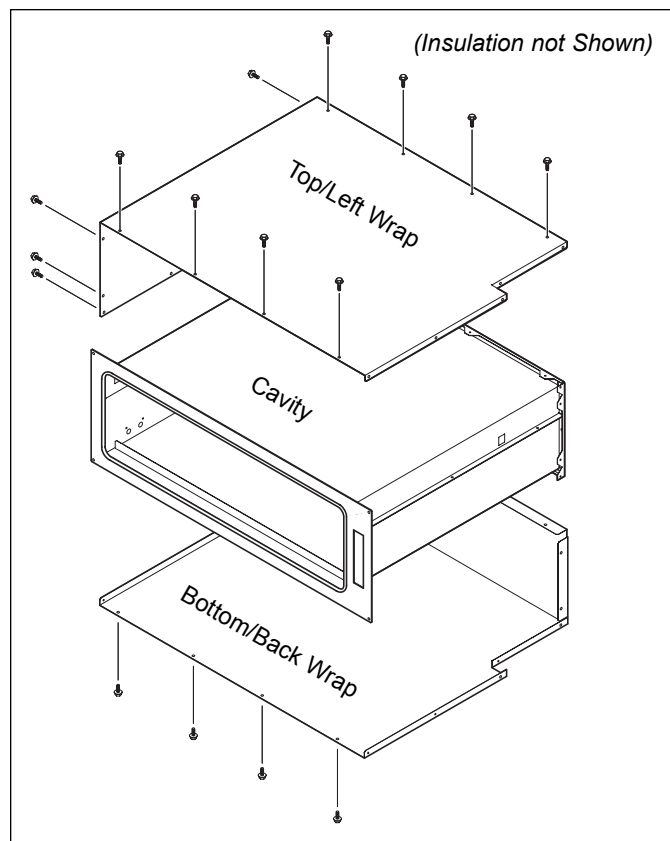


Figure 4-10. Wrap Removal

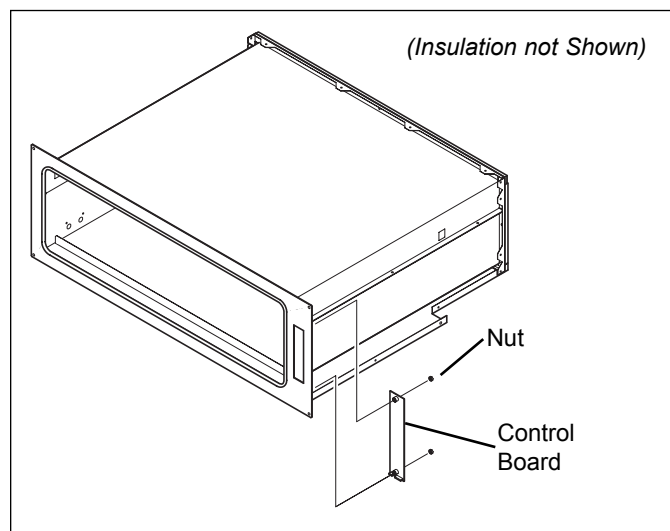


Figure 4-11. Control Board Removal

Thermal Switch (PTS #13005870)

The thermal switch is attached to the back of the front plate with a clip, a threaded stud and a nut.

To remove the thermal switch, the appliance will first need to be extracted from its installation and the wire box cover, control panel cover and top/left side wrap will need to be removed. Then, extract the nut from the threaded stud and pull the thermal switch from the front plate. (See Figure 4-12)

Thermal Protector (SWS #13005870)

The thermal protector is attached to the right side wall of the warming drawer cavity with screws. The electrical terminals of thermal protector pass through a hole in the right side wall of the warming drawer cavity.

To remove the thermal protector, the appliance will first need to be extracted from its installation and the wire box cover, control panel cover and top/left side wrap will need to be removed. Then, disconnect the electrical leads from the thermal protector, and extract the screws from the thermal protector. Now, pull the thermal protector from the right side wall. (See Figure 4-13)

Front Plate Assembly

(Includes Front Plate, Control Panel & Seal)

The control panel and seal are glued to the front plate. Threaded studs at the back of the front plate are inserted through holes in the front flanges of the cavity. Nuts are placed over the threaded studs and tightened down to hold the front plate assembly to the cavity.

To remove the front plate assembly, the appliance will first need to be extracted from its installation and the wire box cover, control panel cover and both wraps will need to be removed. Then, extract the nuts from the threaded studs and pull the front plate assembly from the cavity. (See Figure 4-14)

NOTE: Starting with Serial #13005870, the silicone door seal is removable from the front plate. See *Silicone Door Seal removal instructions* below.

Silicone Door Seal (SWS #13005870)

A groove at the back of the silicone door seal fits over the inner edge of the front plate.

To remove the silicone seal, the appliance will first need to be extracted from its installation and the wire box cover, control panel cover and both wraps will need to be removed. Then, loosed the nuts from the threaded studs and pull the front plate assembly forward slightly (See Figure 4-14). Now, pull the seal from the front plate.

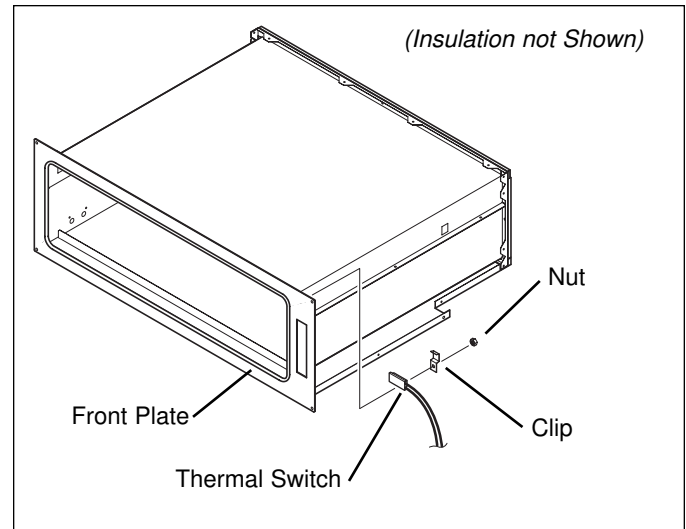


Figure 4-12. Thermal Switch (PTS #13005870)

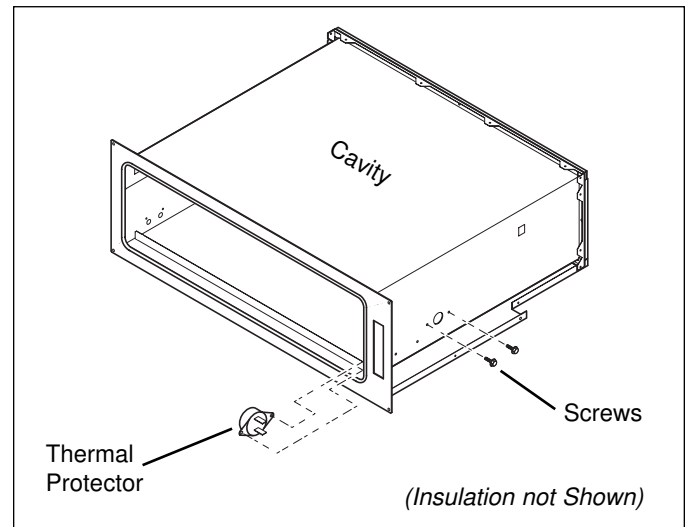


Figure 4-13. Thermal Protector (SWS #13005870)

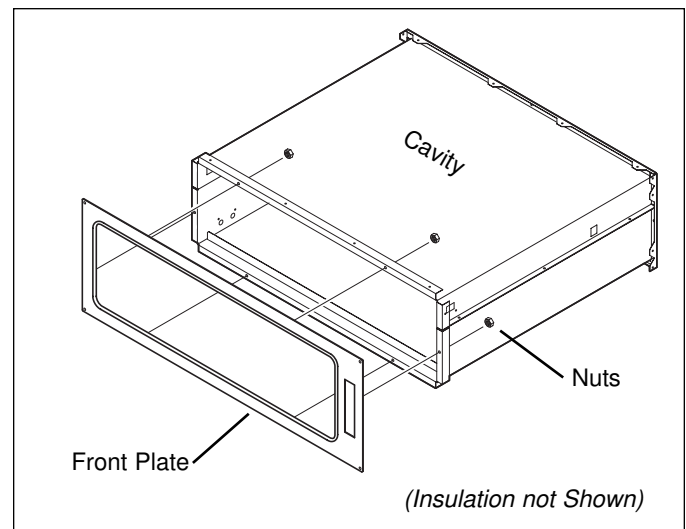


Figure 4-14. Front Plate Removal

General Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	TEST / ACTION
A. Unit Does Not Function at All	No Power to Unit	Check power to unit. Plug unit in, switch supply circuit breaker to ON position or replace fuse if defective.
	Electronic Control System Fault	See Electronic Control System Test Procedures following General Troubleshooting Guide.
	Disconnected or Broken Wiring	Check all electrical connections and wires. Reconnect or repair wiring.
B. No Heat at Any or All Settings	No Power to Unit	Check power to unit. Plug unit in, switch supply circuit breaker to ON position or replace fuse if defective.
	Unit Switched OFF (<i>NOTE: See Automatic Shut-off Information in Section 3.</i>)	Switch unit ON and set to desired temperature.
	Electronic Control System Fault	See Electronic Control System Test Procedures following General Troubleshooting Guide.
	Disconnected or Broken Wiring	Check all electrical connections and wires. Reconnect or repair wiring.
	Defective Heating Element	Check heater for 29 - 34 Ohms. Replace if outside range.
	Defective Thermal Switch	Check resistance of thermal switch at room temperature. Replace if open.
C. No Heat at PROOF Setting Only	High Room Ambient	If room ambient exceeds temperature setting of warming drawer, it will not work. Instruct Customer.
D. Excessive Heat at Any or All Settings	Electronic Control System Fault	See Electronic Control System Test Procedures following General Troubleshooting Guide.
	Defective Heating Element	Check heater for 29 - 34 Ohms. Replace if outside range.
	Defective Thermal Switch	Check resistance of thermal switch when hot (heat with lighter). Replace if it remains closed.
E. Excessive Condensation in Drawer	Improper Moisture Selection Setting	Adjust moisture selection lever to open vent.
	Temperature Setting too High	Reduce temperature setting.
	Uncovered Food in Drawer	Cover food with lid or aluminum foil.
	Liquid in Drawer	Remove liquid.
	Obstructed Moisture Selection Vent	Clear obstruction.
	Defective Moisture Selection Assembly	Check operation. Replace if defective.