

**COMPONENT ACCESS AND REMOVAL**

This section explains how to access and remove components from Wolf Pro Series ventilation products.

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.

This section is divided into two sections, the first section covers Models CTWH30, CTWH36 and Model IH4227. Section two covers Downdraft Models DD30I/R, DD36I/R and DD45I/R.

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

**⚠ WARNING**

TO AVOID ELECTRIC SHOCK, POWER TO A VENTILATION UNIT MUST BE DISCONNECTED WHENEVER ACCESSING AND/OR REMOVING COMPONENTS POWERED BY ELECTRICITY OR COMPONENTS NEAR OTHER ELECTRICAL COMPONENTS.

IF IT IS NECESSARY TO REMOVE A VENTILATION UNIT FROM ITS INSTALLATION, REMEMBER THAT THEY ARE HEAVY AND COULD FALL RESULTING IN SERIOUS INJURY OR DEATH. PULLING A UNIT FROM ITS INSTALLATION SHOULD ONLY BE PERFORMED BY A TRAINED AUTHORIZED SERVICE TECHNICIAN OR INSTALLER.

**⚠ CAUTION**

Metal edges may be sharp. Use caution when servicing unit to avoid personal injury.

## COMPONENT ACCESS AND REMOVAL FOR MODELS CTWH & IH

### FILTER REMOVAL

**NOTE:** See **Caution** at the beginning of this section.

From the underside of wall hood, grab onto filter handle and push back against the spring retainer, then pull down and out of the wall hood. (See Figure 4-1)

### ⚠ CAUTION

Make sure bulb is cool before touching. Halogen bulbs get hot instantly and adjacent parts may retain heat.

Do not touch replacement bulb with bare hands. Use a paper towel or cloth when handling bulb to keep oil from fingers from touching bulb.

### HALOGEN BULB AND LIGHT ASSEMBLY REMOVAL

**NOTE:** See **Caution** above.

The halogen bulb may be removed without removing the lamp assembly. With a small flat bladed screwdriver or fingernails, pry out metal retaining clip securing the lens to the lamp assembly, using care not to damage the retainer or lens. (See Figure 4-2)

The halogen bulb has two metal electrodes that press into the socket of the lamp assembly.

To remove the light assembly, the filters must be removed first, then (See Figure 4-3):

1. Reach inside of hood cavity behind lamp assembly, depress the retaining clips and push lamp assembly through lamp-holder support.
2. Turn lamp assembly 90 degrees and slide lamp assembly through the clearance slots cut in the lamp-holder support.
3. With wire cutters, cut wire leads leading to lamp assembly.
4. Splice wires from new lamp assembly to wire harness. Use shrink wrap to seal wire splice.

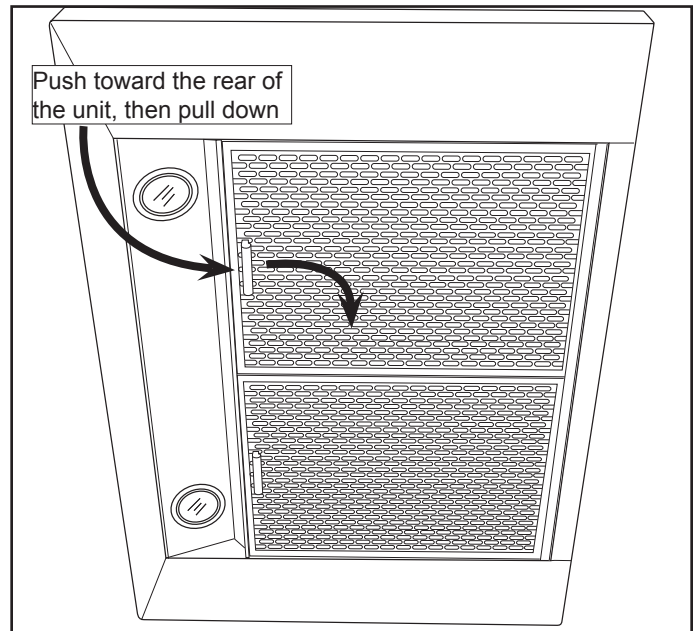


Figure 4-1 Filter Removal

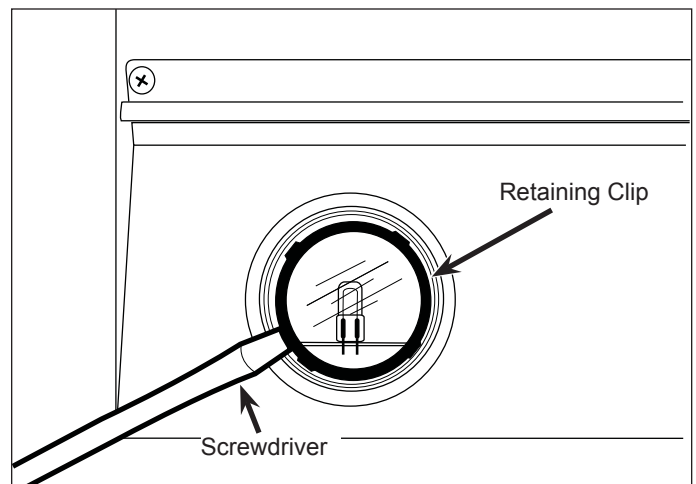


Figure 4-2 Lens Retainer Clip Removal

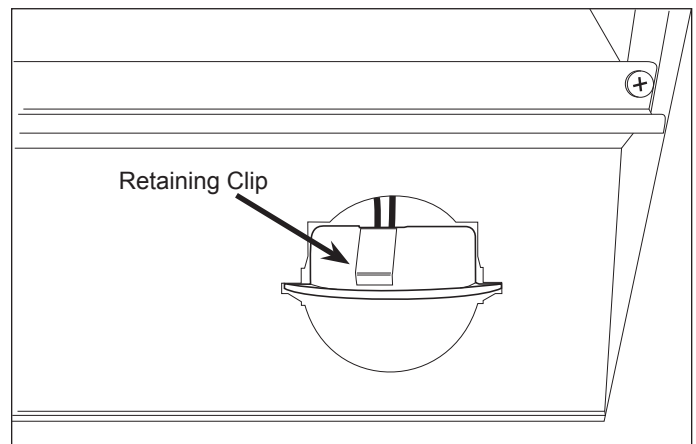


Figure 4-3 Lamp Assembly Removal

**⚠ WARNING**

**TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.**

**HEAT SENTRY REMOVAL**

**NOTE:** Refer to all WARNINGS and CAUTIONS at beginning of this section.

The heat sentry is located behind the lamp-holder support and is held in place by a retaining clip.

The heat sentry will activate when the exhaust temperature reaches 206°F (97°C), signaling the blower motor to start or increase to the next highest speed. The corresponding LED will flash on and off to indicate Heat Sentry Mode.

To remove the heat sentry, the filters must be removed first, then (See Figure 4-4):

1. Reach inside hood cavity on backside of lamp-holder support, locate the heat sentry and pull out from under retaining clip.
2. Disconnect wire leads from heat sentry.

**LAMP-HOLDER SUPPORT REMOVAL**

The lamp-holder support provides a mounting surface for the lamp-holder assemblies and heat sentry. The front edge of the lamp-holder support has tabs that fit into slots formed in the wall hood frame, while two screws in the opposite corners secure the support to the wall hood.

To remove the lamp-holder support, the filters, heat sentry and the lamp assemblies must be removed first, (See Figure 4-4):

1. Extract screws from corners of lamp-holder support. (See Figure 4-4)
2. Pull lamp-holder support away from front edge of wall hood until tabs release from slots, and remove from unit.

**USER INTERFACE SWITCH MOUNTING BRACKET REMOVAL**

The user interface switch is mounted to a bracket that is located on the front right side of the wall hood. Screws secure the mounting bracket to the interior of the wall hood cavity.

To remove the user interface switch mounting bracket, the filters and lamp-holder support must be removed first, then (See Figures 4-5 & 4-6):

1. Extract the screws securing the user interface switch mounting bracket to the wall hood frame.
2. Pull control panel assembly out of wall hood.
3. Extract screws securing user interface switch to mounting bracket.

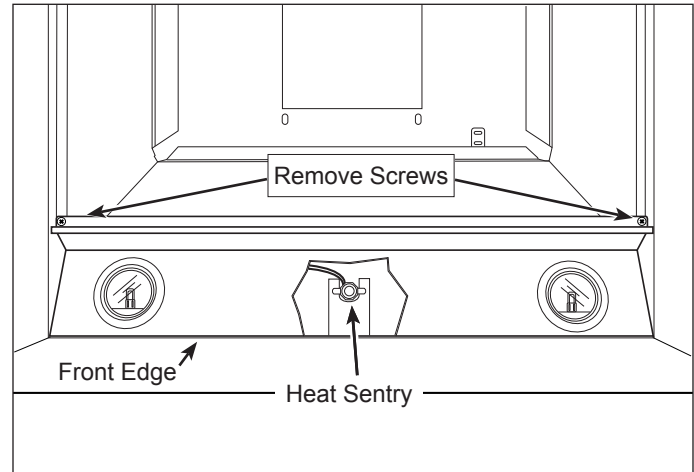


Figure 4-4 Lamp-holder Support Removal

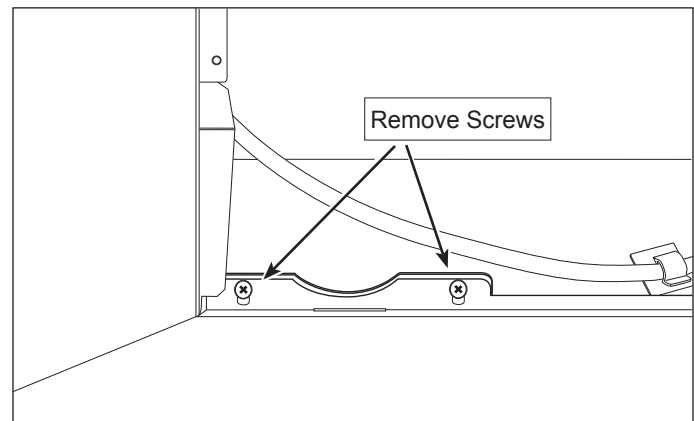


Figure 4-5 Control Panel Bracket Removal

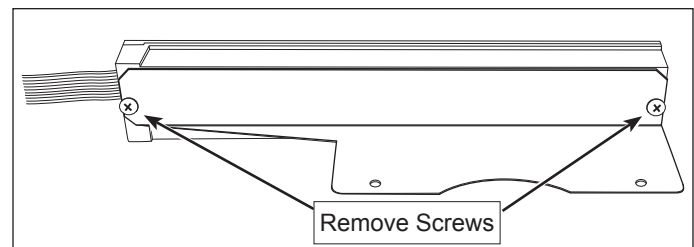


Figure 4-6 Removing Control From Bracket

### ⚠ WARNING

**TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.**

#### RIBBON CABLE REMOVAL

**NOTE:** Refer to all WARNINGS and CAUTIONS at beginning of this section.

The user interface switch consists of a plastic housing which contains the circuit board and push buttons, and a clear plastic plate that secures the push buttons in place and captivates the control ribbon. Screws secure the clear plastic plate to the housing.

To remove the control ribbon and/or to replace the circuit board, the filters, lamp holder support and the user interface switch mounting bracket must be removed first, then (See Figure 4-7):

1. Extract the screws securing the clear plastic plate to the housing.
2. Lift control circuit board out of housing.
3. With thumb and forefinger, grasp the ribbon cable connector and disconnect from circuit board.

#### POWER OUTLET REMOVAL

**NOTE:** Refer to all WARNINGS and CAUTIONS at beginning of this section.

To access the power outlet the lower section of the telescoping chimney flue must be raised off of the hood and temporarily secured in place. The outlets are located on the top left front of the hood frame and are secured in place with spring clips.

To remove the power outlets, (See Figure 4-8):

1. Raise lower section of chimney flue off of hood frame and temporarily secure in position.
2. Disconnect electrical leads from outlet.
3. With fingers, depress spring clips on sides of outlet and push through hood frame.

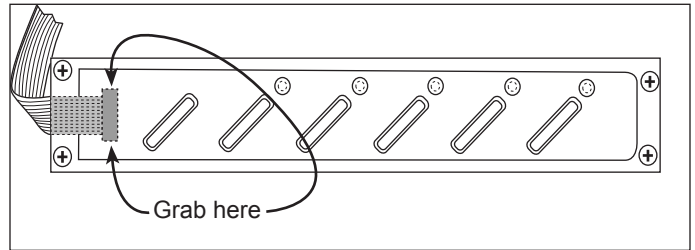


Figure 4-7 User Interface Switch Bracket Removal

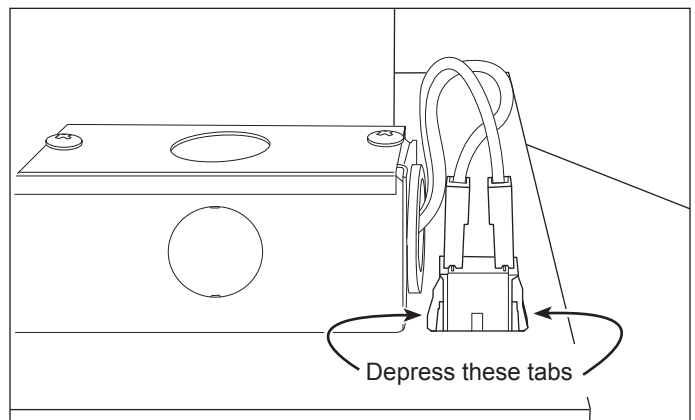


Figure 4-8 Power Outlet Removal

# **⚠ WARNING**

**TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.**

## **TRANSFORMER REMOVAL**

**NOTE:** Refer to all WARNINGS and CAUTIONS at beginning of this section.

To access the transformer the lower section of the telescoping chimney flue must be raised off of the hood and temporarily secured in place. The transformer is located on the top right side of the hood frame and is secured to the hood with screws.

To replace the transformer, (See Figure 4-9 & 4-10):


1. Raise lower section of chimney flue off of hood frame and temporarily secure in position.
2. Extract screws securing the transformer wire cover to transformer and remove from unit.
3. With a flat bladed screwdriver, loosen set screws securing wires to transformer terminals. Pull wire leads out of transformer.
4. Extract screw from front of transformer. Slide transformer out from under mounting bracket.

## **FUSE REMOVAL**

**NOTE:** Electrical shock hazard. Refer to WARNING at beginning of section.

To access the fuse the lower section of the telescoping chimney flue must be raised off of the hood and temporarily secured in place. The control box is located on the upper right side of the hood frame. The fuse is located in a fuse holder inside the control box.

To remove the fuse,

1. Raise lower section of chimney flue off of hood frame and temporarily secure in position.
2. Extract screws  securing the control panel cover to control box and remove cover. (See Figure 4-11)
3. Grasp top section of fuse holder with fingers and turn counterclockwise. Pull cap and fuse out of fuse holder. (See Figure 4-12)

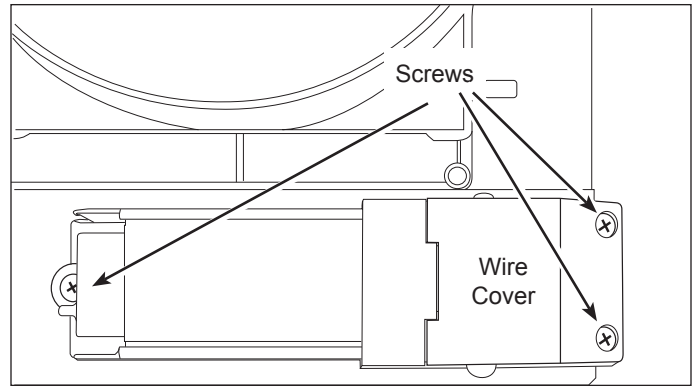


Figure 4-9 Transformer Removal

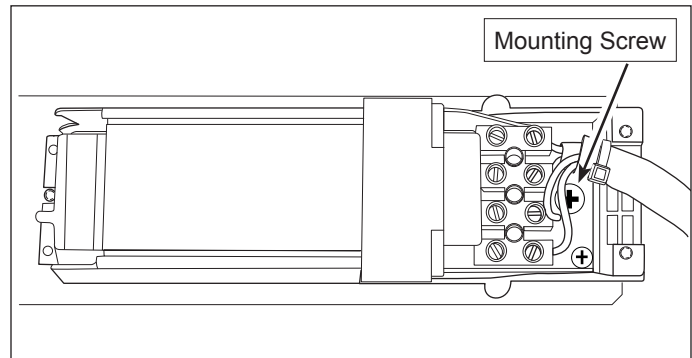


Figure 4-10 Disconnect Wire Harness

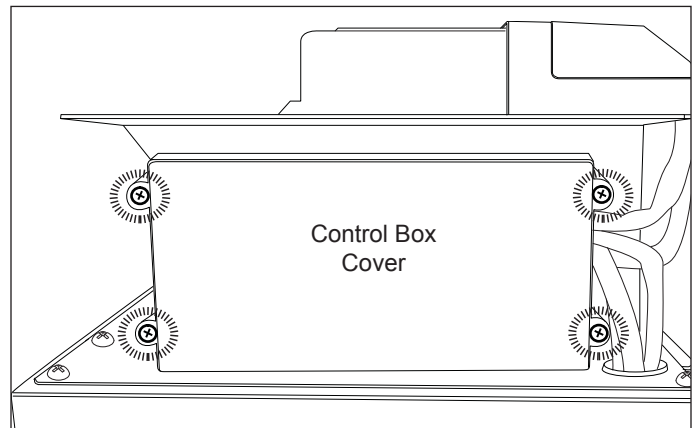


Figure 4-11 Control Box Cover Removal

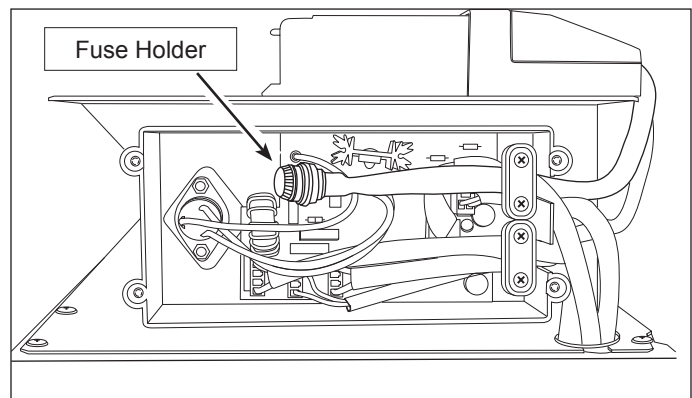


Figure 4-12 Fuse Removal

### COMPONENT ACCESS AND REMOVAL FOR MODEL CTEW

#### ⚠ WARNING

TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.

#### ⚠ CAUTION

- MAKE SURE BULB IS COOL BEFORE TOUCHING. HALOGEN BULBS GET HOT INSTANTLY AND ADJACENT PARTS MAY RETAIN HEAT.
- DO NOT TOUCH REPLACEMENT BULB WITH BARE HANDS. USE A PAPER TOWEL OR CLOTH WHEN HANDLING BULB TO KEEP OIL FROM FINGERS FROM TOUCHING BULB.

#### HALOGEN BULB REMOVAL

**NOTE:** See **Caution** above.

The halogen bulb may be removed without removing the lamp assembly. With a small flat bladed screwdriver or fingernails, pry out metal retaining clip securing the lens to the lamp assembly, using care not to damage the retainer or lens. (See Figure 13)

The halogen bulb has two metal electrodes that press into the socket of the lamp assembly.

#### FILTER REMOVAL

1. Lower the drop plate by pulling down on the front edge to dislodge it from the snap fasteners and allow it to hinge down and back.
2. Place one finger under the filter latch and pivot the latch forward and down until the front of the filter is allowed to freely drop out of the filter opening.
3. Lean the filter down and out of the 2 slots in the back of the filter opening. (Figure 14)

#### DROP PLATE REMOVAL

1. Pull down on the front edge of the drop plate to dislodge it from the snap fasteners.
2. Using a Phillips screw driver, remove the (4) hinge screws as shown in Figure 15.

**NOTE:** To prevent damage, you will need to support the plate with one hand while removing the screws with the other.

#### HOOD INNER PANEL REMOVAL

1. Remove Drop Plate and Filter(s). (See previous page)

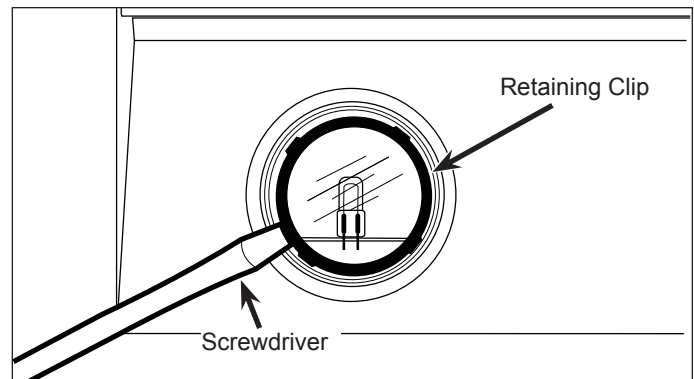


Figure 4-13 Bulb Lens Removal

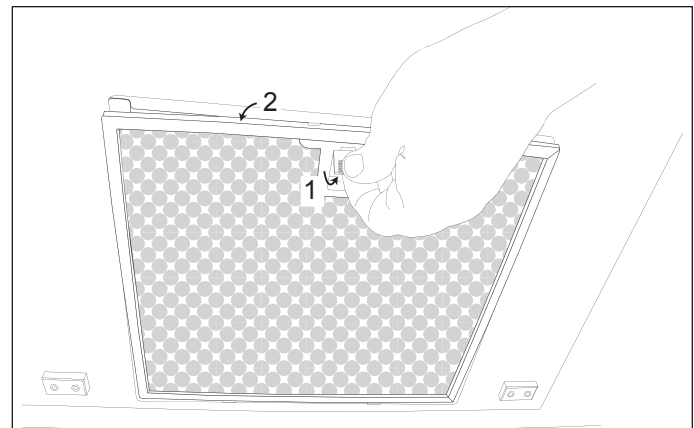


Figure 4-14 Filter Removal

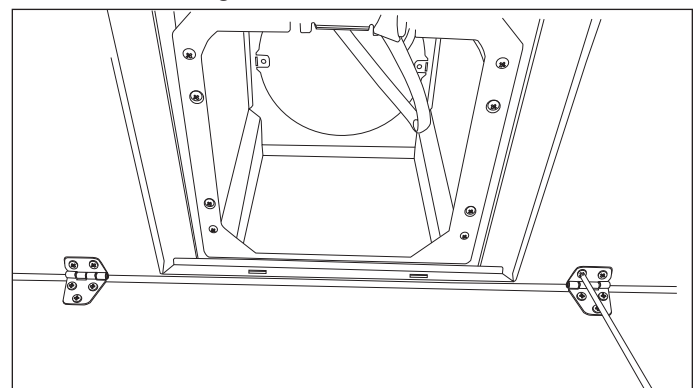


Figure 4-15 Drop Plate Hinge Screws

#### ⚠ CAUTION

ALWAYS WEAR GLOVES WHEN HANDLING SHEET METAL DUE TO THE POSSIBILITY OF SHARP EDGES.



**HOOD INNER PANEL REMOVAL (CONT.)**
**⚠ WARNING**

**TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.**

2. Locate the (3) screws fastening the front of the shroud to the hood frame. Using a Phillips screw driver, remove the screws as shown in [Figure 4-16](#).

**NOTE:** To prevent damage, you will need to support the panel with one hand while removing the screws with the other.

3. Locate the (3) screws fastening the back of the panel to the hood frame. Using a Phillips screw driver, remove the screws as shown in [Figure 17](#).
4. Slowly lower the panel until the molex plug for the Heat Sentry (see [Figure 16](#)) is exposed and disconnect plug.

**LAMP SOCKET REMOVAL**

1. To remove the light Socket assembly, the drop plate, filters and inner shroud must first be removed (See procedures above).
2. Disconnect Molex plug for the Lamp Socket that you are going to remove.
3. Reach inside of hood cavity above the lamp assembly and depress the retaining clips and push lamp assembly through lamp-holder support.

**NOTE:** If necessary, turn lamp assembly until you can slide lamp assembly through the clearance slots cut in opening in the hood.

**CONTROL PANEL REMOVAL**

1. To remove the Control Panel, the drop plate, filters and inner shroud must first be removed (See procedures above).
2. Disconnect Communication Cable from the back of the Control Panel. ([Figure 19](#))
3. Locate and remove the screws that fasten the Control panel to the hood.

**NOTE:** The screws (2 for Wall Hoods, 4 for Island Hoods) are the only fasteners used to hold the Control Panel to the Hood. Control Panel will fall if not supported as screws are removed.

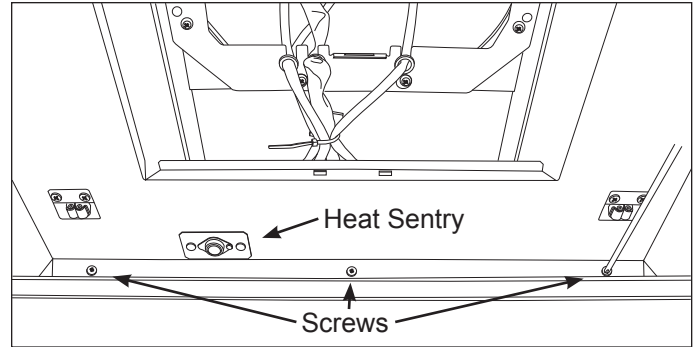


Figure 4-16 Inner Panel Front Screws

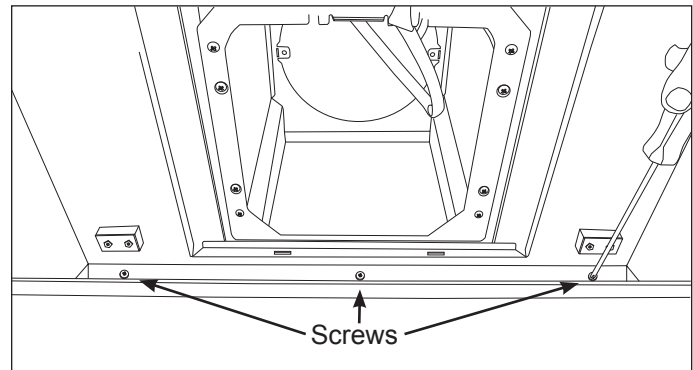


Figure 4-17 Inner Panel Rear Screws

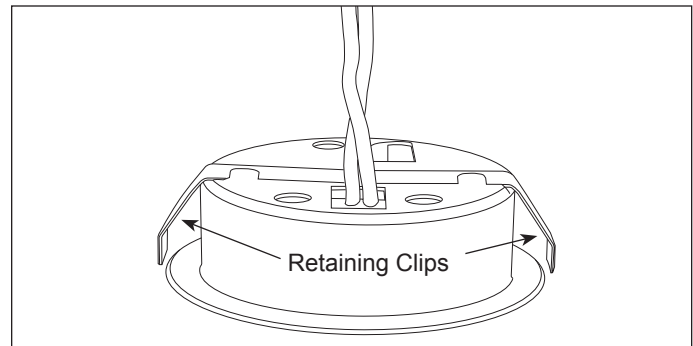


Figure 4-18 Lamp Socket

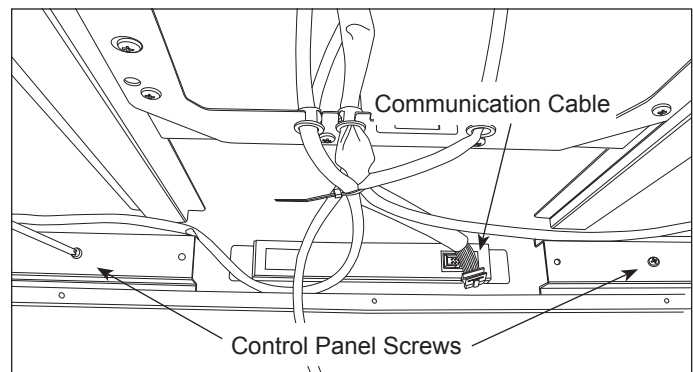


Figure 4-19 Control Panel Removal

### ⚠ WARNING

TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.

### ⚠ CAUTION

ALWAYS WEAR GLOVES WHEN HANDLING SHEET METAL DUE TO THE POSSIBILITY OF SHARP EDGES.

#### INTERNAL BLOWER REMOVAL

1. Disconnect electrical supply. (see WARNING above)  
**NOTE:** For Island Hood Internal Blower Removal Skip to Step 6. Motor connector located inside motor housing and should be disconnected there.
2. Slide the bottom section of chimney flue up to gain access to the controls. (See Figure 20)
3. Remove the Control Board housing cover, cable clamp and cable tie that secure the motor harness. Unplug CN1 by gripping the connector and pulling straight out. (See Figure 21)
4. Remove the nut from the grounding stud and free the blower ground wire. (See Figure 21)
5. Feed the blower wire harness and ground wire down through the wire routing hole. (See Figure 22)
6. Remove the Drop Plate and Filter(s) (Page 4-7).
7. Remove the Inner Panel.  
**NOTE:** Do not forget to unplug Heat Sentry once Inner Plate screws are removed.
8. Remove screws (4) that fasten the bottom bracket to the hood. (See Figure 4-23)

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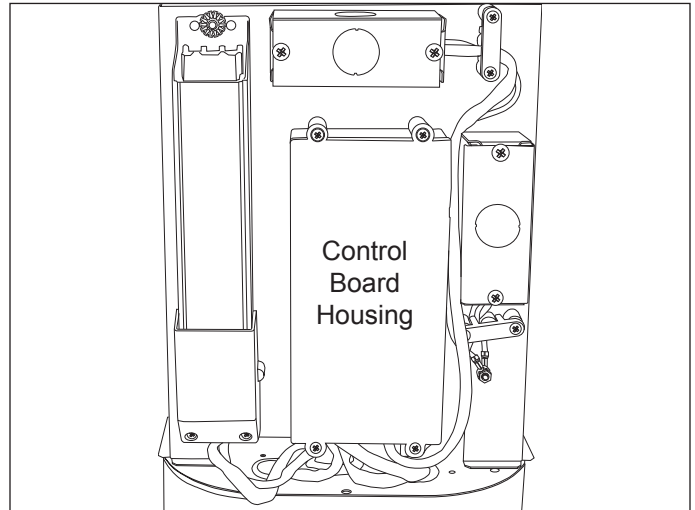


Figure 4-20 Control Panel Location

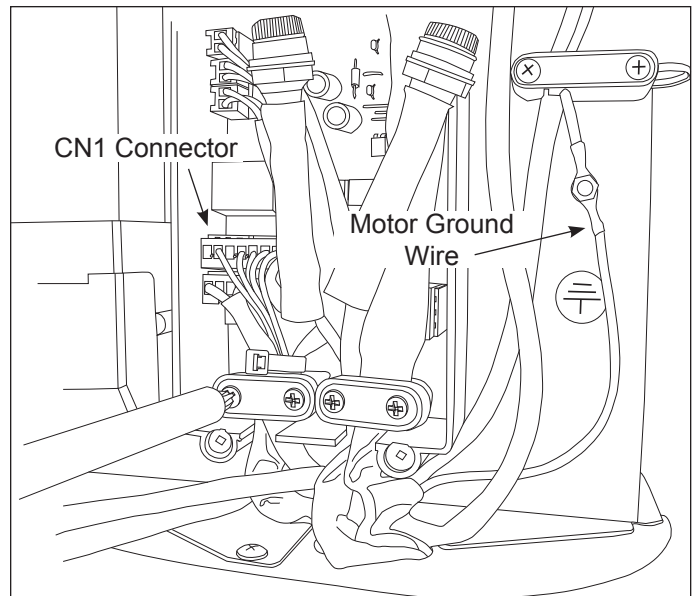


Figure 4-21 Motor Connector and Ground Wire

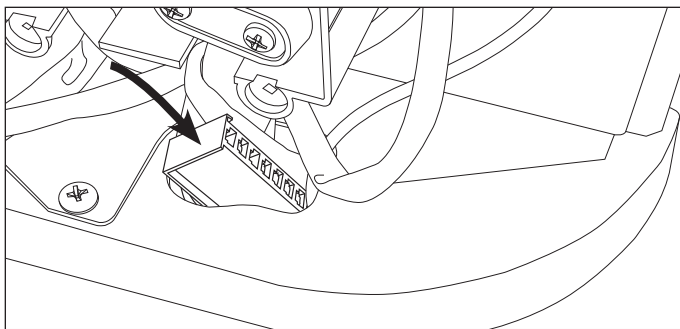


Figure 4-22 Connector

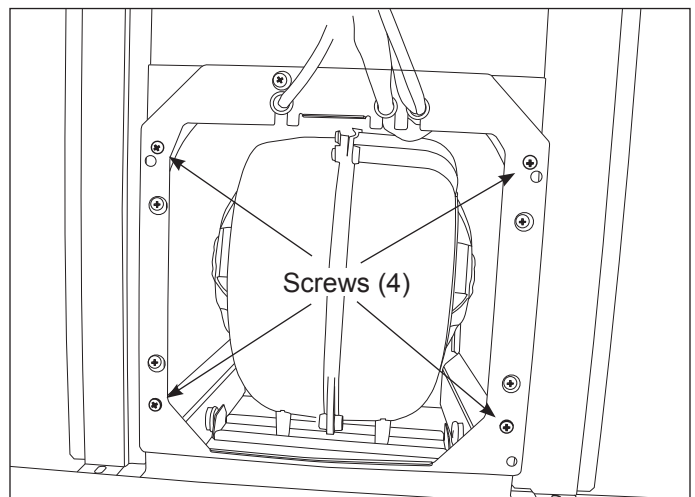


Figure 4-23 Bottom Bracket Screws



**INTERNAL BLOWER REMOVAL (CONTINUED)**

9. Remove the wing-nuts on either side of the blower housing. (See Figure 24)
10. While supporting the blower, remove the screws (Figure 25). Once the screws are removed the blower can be lowered out of the hood.

**NOTE:** You will need to rotate the blower assembly slightly within the hood to attain the correct orientation for removal.

**NOTE:** Do not lose the tubular screw spacers that are inside of the rubber mounts. These spacers prevent the possibility of crushing the rubber mount during reinstallation.

**⚠ WARNING**

**TO AVOID ELECTRIC SHOCK, POWER TO THE VENTILATION UNIT MUST BE DISCONNECTED WHENEVER PERFORMING THE FOLLOWING REPAIRS.**

**⚠ CAUTION**

**ALWAYS WEAR GLOVES WHEN HANDLING SHEET METAL DUE TO THE POSSIBILITY OF SHARP EDGES.**

**CONTROL BOARD REMOVAL**

1. Disconnect electrical supply. (see WARNING above)
2. Slide the bottom section of chimney f ue up to gain access to the controls. (See Figure 20)
3. Remove the Control Board housing cover and unplug electrical connectors.

**NOTE:** Mark wire connectors as you remove them to insure proper connection on replacement board.

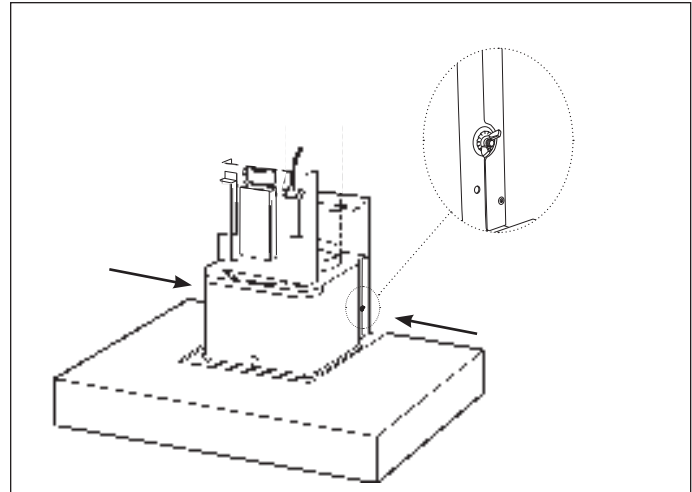


Figure 4-24 Blower Mounting Wing-nuts

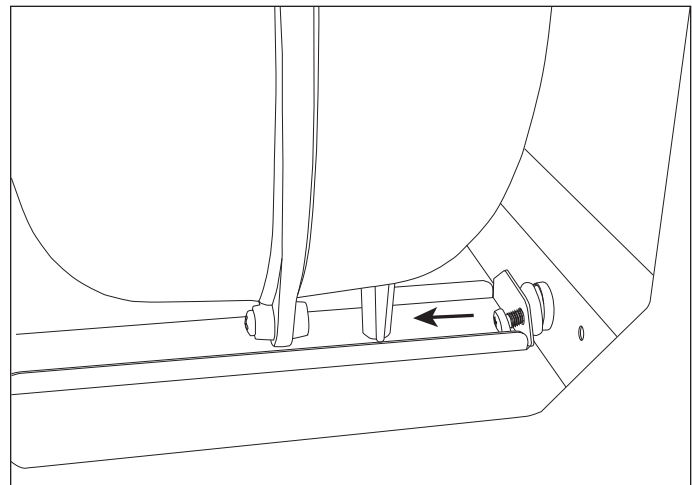


Figure 4-25 Blower Mounting Screws