

# Power



## Chimney Sweep Installation Guide

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### WARNING

(DO NOT activate this unit with a hot stove)

Power Chimney Sweep must not be used with a hot stove. The upward draft from the chimney will expel the ash out of the top of the chimney. Ash can clog the spark arrester, and leave ash on exterior surfaces.

# Notes



(#1, Included Items)

1. Power Sweep
2. Hardware (4 x Bolt, flat washer, fender washer, lock washer, nut, 1 bushing)
3. 7/16 wrench X2
4. Wood Alignment Tool
5. Firestop Sealant
6. Wire Trim Grommets X2
7. Cable Weights with Crush Clamp and Hasp
8. Wireless Remote
9. Chuck Key
10. Power Supply (not pictured)

### **Items Not Included**

1. Steel Cable
2. Additional Wire

## Required Tools

1. Drill
2. Hammer
3. 3/8inch Drill Bit
4. 1/2inch Drill Bit
5. Wire Crimpers
6. Lighter, Heat Gun, or Propane Torch

## Cleaning Cable (purchase required)

### Specifications:

Type: Steel Cable Only

Length: To determine cable length, close the flue damper and remove the chimney cap. With a tape measure, measure the distance from the top of the stove pipe to the damper, (Fig 2).

Diameter: Vents less than 4 inches, use 1/8 inch cable.  
Vents 4 inches and greater, use 1/4 inch cable.

**Note:** If you can't find exact Cable size

The diameter can be no more than plus or minus 1/16 inches when using 1/4 inch cable.

Cable diameter can be no more than 1/16 inches larger and no smaller when using 1/8 inch cable.

## Electrical Wire (Purchase required)

### Specifications:

Length: Find the power source, electrical outlet, you are going to plug your power supply into. Measure the distance from the power sweep to this location. This is how much wire you will have to purchase.

Type: Use 14 gauge, UV rated, stranded wire, one red, (+) positive, and one black, (-) negative.



(#2, Stove Pipe Measurement)



(#3, Chimney Cap Center Mark)



(#4, Chimney Cap Bushing)

## **Step 1. Prepare Chimney Cap for Power Sweep Installation**

- a. Find the center of the chimney cap. (You can use the cable as a straight edge), and mark it, (Fig 3).
- b. Drill a 3/8inch hole. Do not bore the hole by moving the bit around or up and down. A straight cut with rough edges will grip the bushing better.
- c. Insert the bushing. (a light tap with a hammer may be required to seat it (Fig 4)

## **Step 2. Align the Power Sweep with the chimney cap**

- a. Insert the wooden dowel (alignment tool), into the drill chuck. Using the chuck key provided, tighten the chuck snug. Don't crush the dowel.
- b. Place the dowel in to the bushing. The legs of the sweep should be resting on the chimney cap, (Fig 5).



(#5, Position Power Sweep)

- c. Gently bend the horizontal portion (feet) of the legs to conform to the chimney cap. (The legs must remain vertical, (Fig 6).



**(#6, Alignment)**

- d. Mark the first and last hole on each foot, (Fig 7,8). When all four holes are marked, drill four 3/8inch holes.



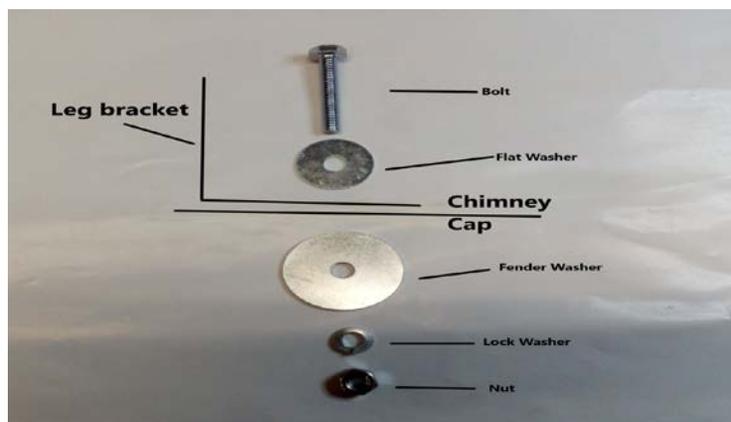
**(#7, Mark inside holes)**



**(#8, Mark outside holes)**

### Step 3. Attach the Power Sweep to the chimney cap

- a. After holes are drilled, place the Power Sweep back on the hood vent using the wooden dowel to center it, (Fig 6).
- b. Use the supplied nuts, bolts, and washers in the order listed, to attach the power sweep to the cap, hand tighten only, (Fig 9, 10).
- c. Position the Power Sweep so it is straight and not binding on the brass bushing. Rotate the drill chuck with your fingers to insure it rotates easily. Tighten the bolts, using the supplied wrenches. Making sure it doesn't bind.  
(Make sure the Chimney Sweep is not leaning to one side. You might have to slightly push the unit one direction or another to realign it with the grommet.)
- d. Loosen the chuck and remove the wooden dowel through the bottom of the vent.



(#9, Bolt order)



(#10, Install attachment hardware)

### Step 4. Prepare Cleaning Cable

- a. Determine how much weight to attach to cleaning cable.  
3inch Stovepipe and smaller - no weight (just the crush clamp)  
3inch to 4inch Stovepipe - one weight  
4 inch to 6inch Stovepipe - two weights
- b. Insert the cable through the crush clamp, then through the small side of the hasp, then back through the crush clamp as shown, (Fig 11).
- c. Place the Crush Clamp on a hard surface. After making sure everything is lined up properly, use the hammer to crush the clamp, (Fig 12).

(You'll need to hit it very hard. Don't worry, you can't hurt it. Smash it until there is no air space between the inside of the crush clamp and the cable)



(#11, finished clamp with weight attached)



(#12, Crushing the clamp)

## Step 5. Install Cleaning Cable

- a. Guide the open end of the cable through the bottom of the chimney cap, up through the bottom of the brass bushing and in to the drill chuck.
- b. Tighten the chuck by hand to snug. (make sure the cable is centered in the chuck before tightening)
- c. Using the chuck key, tighten the chuck as tight as possible.



(#13, Chuck with Cleaning Wire attached)

## **Step 6. Connect Power Sweep to electrical power**

- a. Find electrical power source/outlet you are going to plug your power supply in to. (If an accessible outlet is unavailable, consult an electrician)
- b. Route purchased wire from Power Sweep to the Power Supply adaptor. (Fig 14)



(#14, power supply adapter)

If you are routing wire into the house, entry through the top side of the chimney roof jack is preferable, (if you have access to its underside).



(#14 Roof jack)

Routing wire through a roof (Fig 16). or side-wall requires a 1/2inch hole. Two grommets are provided as conduit to line holes and protect the wire, one for the exterior wall or roof, and one for the interior wall or ceiling (Fig 15). Feed the desired length of wire through the exterior grommet,



(#15, grommets)



(#16, Wire through shingles)

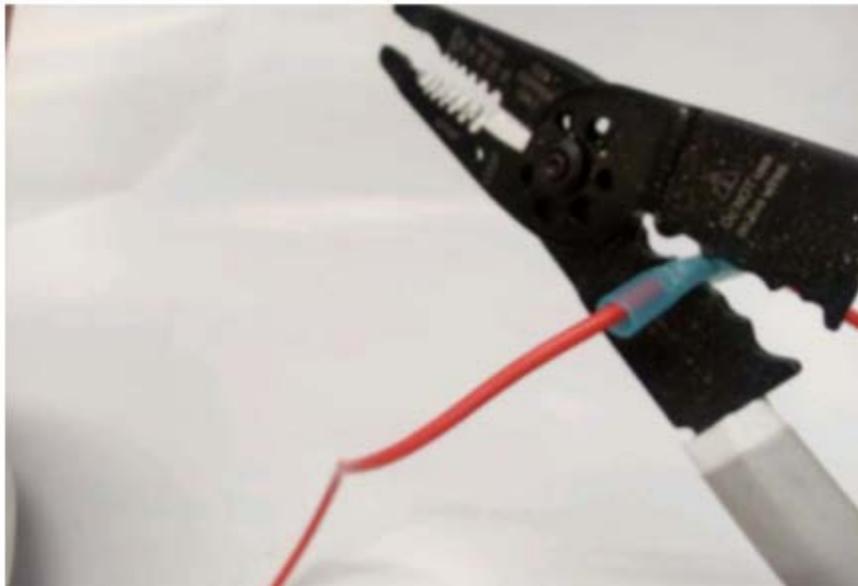
Note: if you have to run wire along a roof for a long distance, along the ridge/peek is best. make sure it is tightly secured, to prevent ice and snow

from pulling it off. Other options are, along a dormer wall, or under a shingle tab, if necessary. (Keep exterior routing to a minimum)

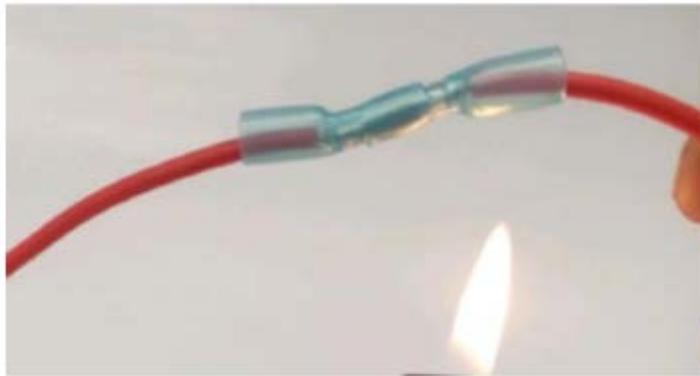
c. Connect purchased wire to the Power Sweep using heat shrink, butt splice connectors. Connect red (+), to red, and black (-), to black. Use crimpers to tightly attach each wire, (Fig 17). Apply slow heat to the connector ends so they shrink tight around the wire, (Fig 18). This will weather seal them.

Note: The red and black wires on the Power Chimney Sweep are heat resistant to 500 deg. Fahrenheit. The wire sleeve is heat resistant to 2000 deg. Fahrenheit.

d. Seal the wire and grommets with the fire stop calk provided. Apply a bead of calk under the lip of the grommet to secure and seal it to the roof or wall. Apply calk around and in between the wires, then push them in an additional 1/2inch. Apply more to fill any gaps; this will complete the seal and securely attach them.



(#17, Crimp the connectors)



(#18, Heat shrink the connections)

## Step 7. Setting the Speed

(Before starting, make sure you are at the Power Sweep unit, and it is turned off, the speed dial is all the way to the left)

**WARNING:** DO NOT turn the speed all the way up before setting the speed. Running the speed to high will tangle the cable.

- a. Hold the remote button down and slowly turn the speed dial to the right until you hear the rattling sound of the weights hitting the inside of the stovepipe. (This vibration helps to break up creosote attached to the stove pipe wall so the cleaning cable can strip it loose. You will also hear the lower sound the cable makes as it scrapes the inside of the pipe.)
- b. Listen closely to the sound of the cleaning cable, if you detect a skip in the sound, turn the speed dial up until it is a smooth scraping sound. Then turn the dial an additional 1/8 turn and stop. Now you can release the remote button. The speed has been set.
- c. Now remove the chimney cap and inspect the cleaning. If large areas are missed the speed needs to be increased.
- d. It's important to check the cleaning from time to time to see if speed adjustments are needed.
- e. Be aware of the sounds the sweep makes, if they change the unit needs to be checked.

**Note:**

When operating the remote, allow 10 seconds between button pushes to allow the cable to stop moving and return to the neutral position. The action the cable develops is the secret to how it works. Disrupting that can cause the cable to tangle.

Running the sweep at too high of speed can also tangle the cable.