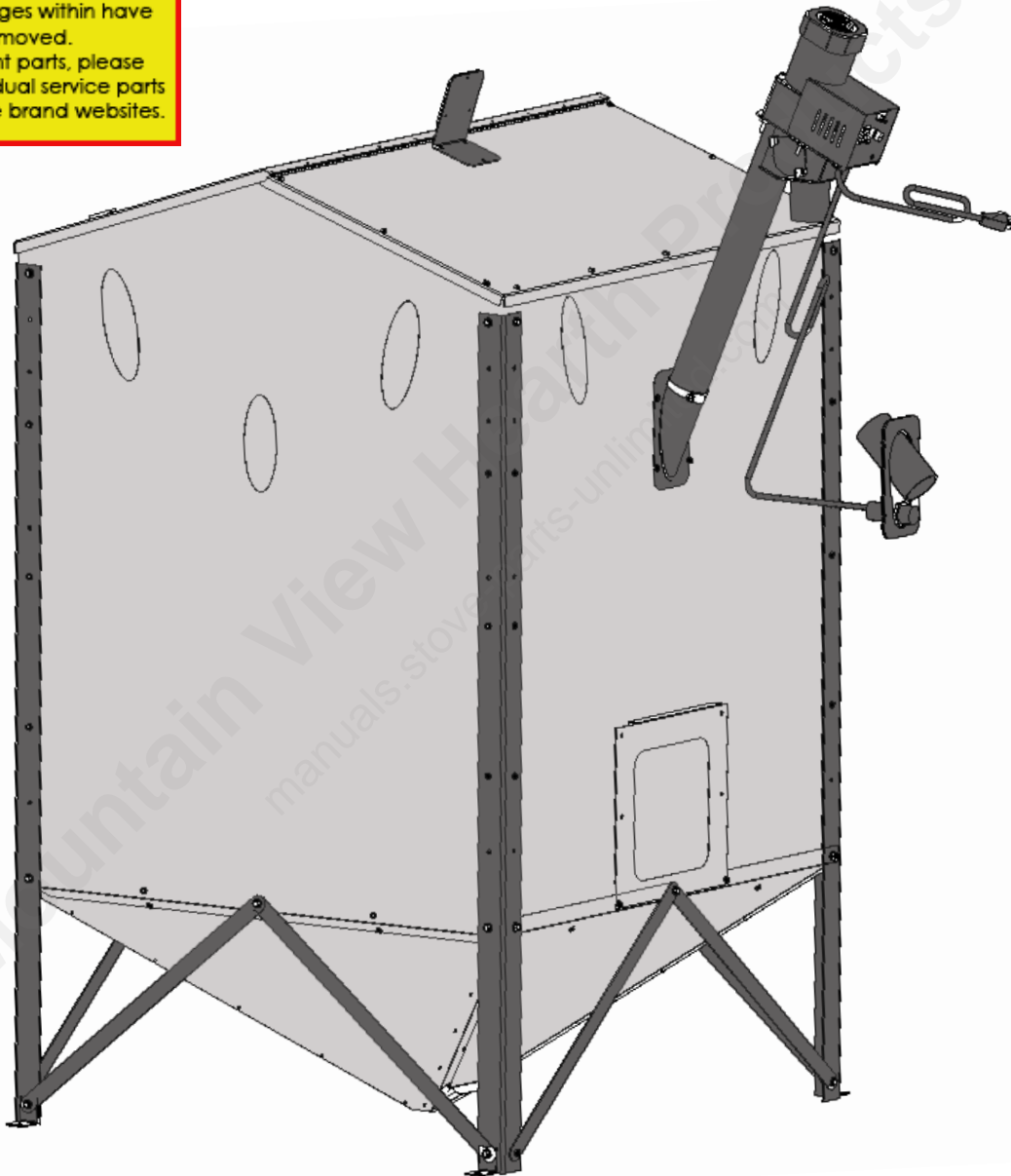


## Bio-Fuel Bulk Storage Hopper - #1-00-73450 Assembly and Installation Instructions

This unit has been retired.  
Service parts pages within have  
been removed.  
For replacement parts, please  
refer to the individual service parts  
list located on the brand websites.



**Approved for use with all Bio-mass Fuels Including, but not limited to;  
Wood Pellets, Corn, Wheat, Barley, and Oats.**

# Packing List

## Hopper Body

Left Side (marked "L")  
Right Side (marked "R")  
Front Panel (has bag lift assist mounting brackets)  
Rear Panel  
Funnel Assembly  
Rear Top  
Hopper Lid with Hinge  
Leg Braces -(8, four of which are used in packaging)  
Bag Lift Assist  
Cleanout Chute

## Auger Tube and Motor

Auger Tube with Motor attached  
Mounting Plate with Gasket  
Clear PVC Flexible Hose - (3 ft.)  
(3) Hose Clamps  
Template For Appliance Hole Cutting  
Low Fuel Sensor  
Appliance-end Mounting Plate with Gasket

## Hardware Pack

Hole Cover for Funnel Base - (2)  
Hopper Lid Stopping Angle  
Hopper Lid Stop Gasket  
1/4-20 X 3/4 in. Flange Bolts - (27)  
1/4-20 Flange Nuts - (27)  
1/4-20 X 1/2 in. Hex Bolts - (2)  
1/4-20 Locking Style Nuts - (2)  
1/8 in. Pop Rivets - (16)  
#10 X 3/4 in. TeK Screws - (63)

**Note:** This Bulk Fuel Hopper is not painted or intended to be decorative. Scratches, dings, and other cosmetic imperfections are possible and probable. You may paint the external surfaces, in any way you please. Hearth & Home Technologies or It's Authorized Dealer will not replace components for surface imperfections.

# Assembly

## Tools Required:

- Combination Wrenches ..... 3/8 in.  
7/16 in.
- Ratchet and Sockets ..... 3/8 in.  
7/16 in.
- Locking Pliers (Vise Grip)
- 1/8 in. Pop Rivet Gun
- Drill and Bits ..... 1/8 in. High speed bit  
17/64 in. High speed bit  
5/16 in. nut-driver bit

- 1/8 in. to 1/4 in. Awl
- Right and Left Handed Tin Snips
- Saber Saw with Metal Blade
- Utility Knife
- Caulking Gun and Clear Silicone

## Other Items Required:

- Blocking Material Such as (4) 4x4x8 in. Wood Blocks or  
(2) 2x4x42 in. Boards.

Approved for use with all Bio-mass Fuels Including, but not limited to; Wood Pellets, Corn, Wheat, Barley, and Oats.

**NOT APPROVED FOR USE WITH COAL**

**Warning! Avoid Personal Injury. Never reach into bottom of hopper while auger is operating. Disconnect power to ensure safety.**

**This Storage Hopper Is Designed For Indoor Use Only**



Manufactured by:

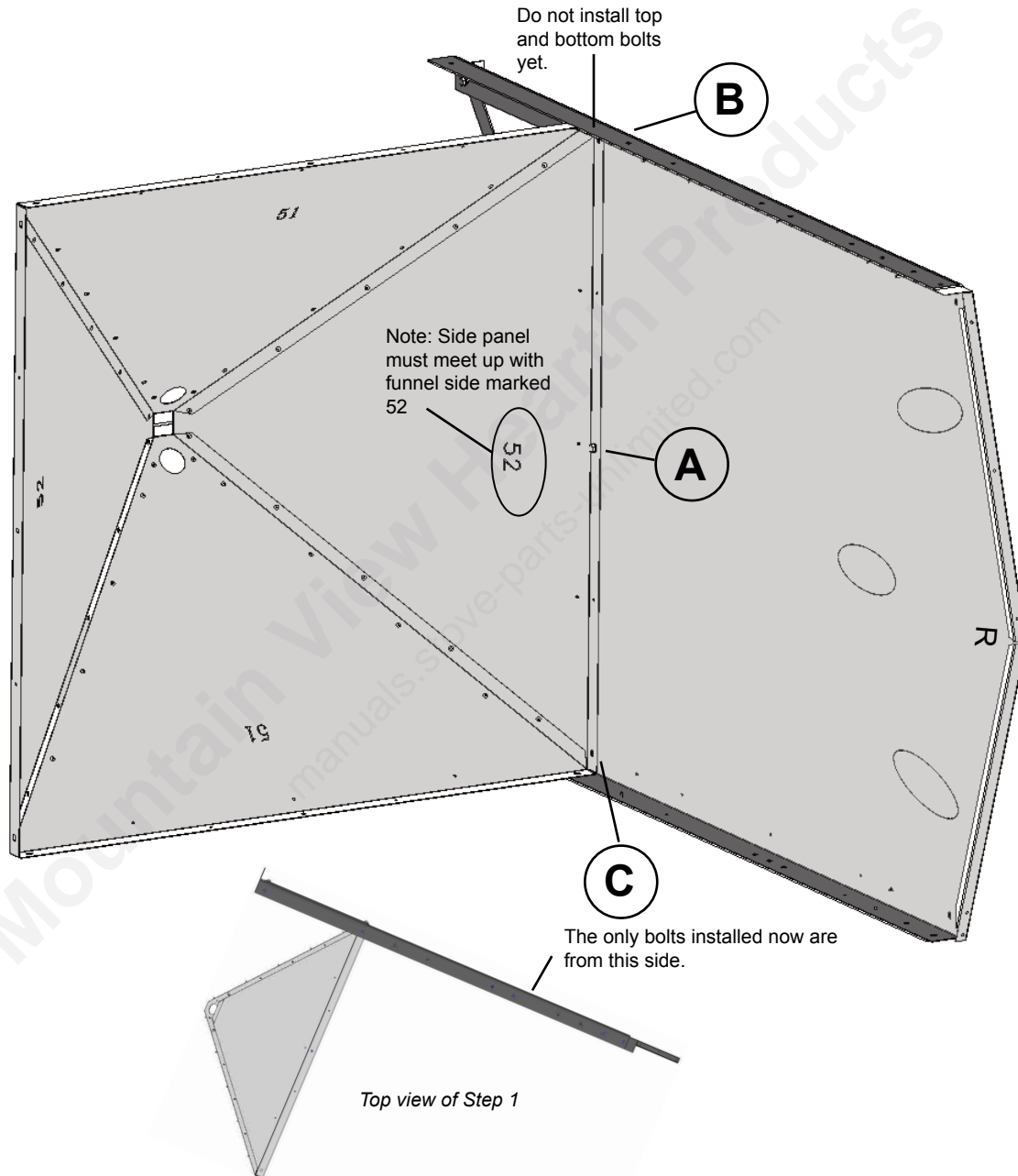
**Hearth & Home Technologies**  
352 Mountain House Road  
Halifax, Pennsylvania 17032

# Assembly

## **Step 1:** Attach Right Side Panel To Funnel Assembly

Hardware needed - (2) 1/4-20x3/4 bolts and (2) 1/4-20 flange nuts

- A. Remove the 1/4-20x3/4 bolt, where the leg braces come together, and reinstall from the outside. Install 1/4-20 flange nut on the inside and tighten.
- B. Install, on the same side, (1) 1/4-20x3/4 bolt from the outside. Install 1/4-20 flange nut on the inside and tighten.
- C. Install, on the same side, (1) 1/4-20x3/4 bolt from the outside. Install 1/4-20 flange nut on the inside and tighten.

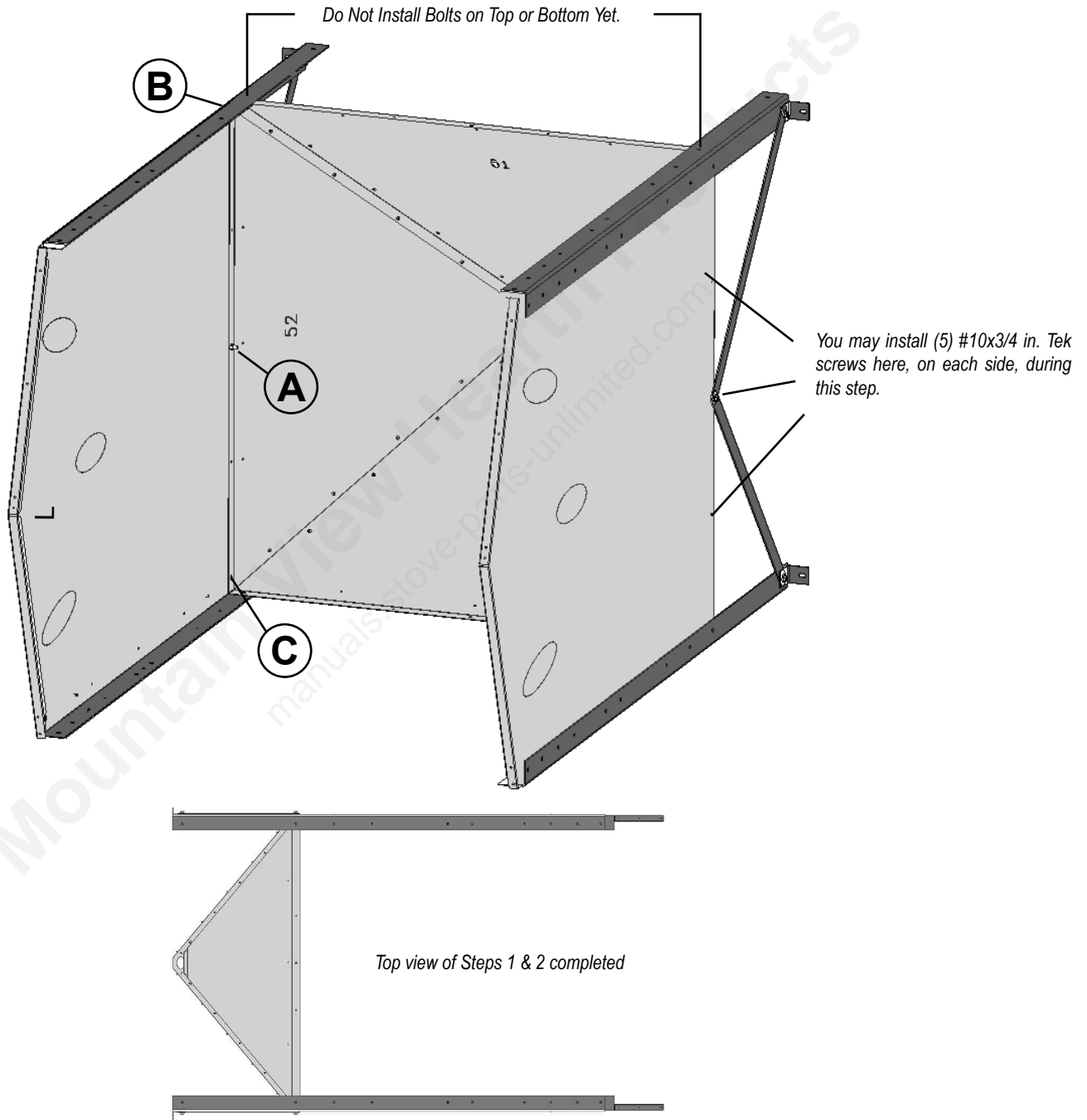


# Assembly

## **Step 2:** Repeating Step 1, Attach Left Side Panel To Funnel Assembly

Hardware needed - (2) 1/4-20x3/4 bolts and (2) 1/4-20 flange nuts

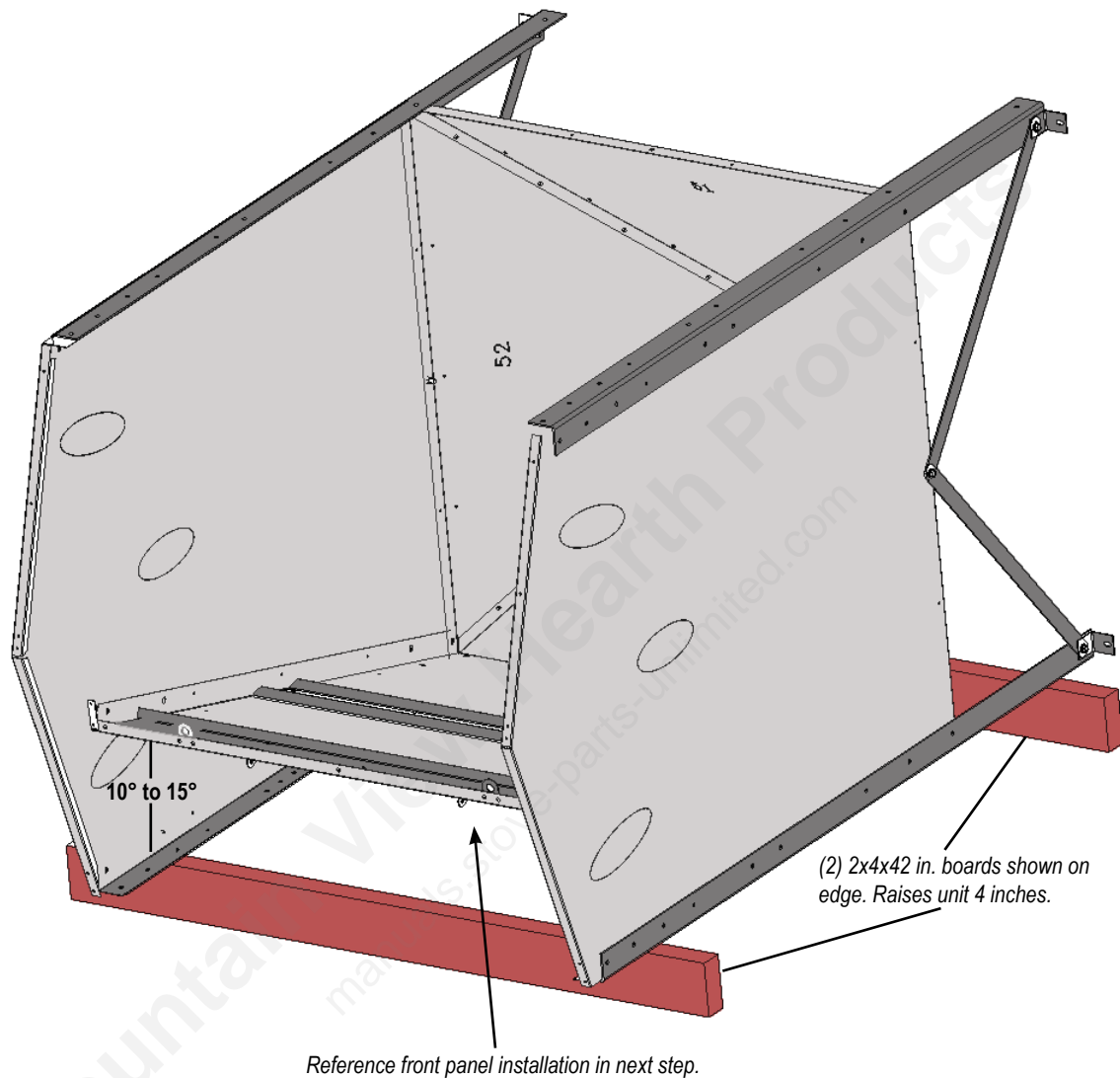
- A. Remove the 1/4-20x3/4 bolt, where the leg braces come together, and reinstall from the outside. Install 1/4-20 flange nut on the inside and tighten.
- B. Install, on the same side, (1) 1/4-20x3/4 bolt from the outside. Install 1/4-20 flange nut on the inside and tighten.
- C. Install, on the same side, (1) 1/4-20x3/4 bolt from the outside. Install 1/4-20 flange nut on the inside and tighten.



# Assembly

**Step 3:** Place the current assembly on blocking as shown.

Hardware needed - (shown with (2) 2x4x42 in boards).



**Do not stand or step on the front panel while the unit is raised on blocks. Damage is likely to occur.**

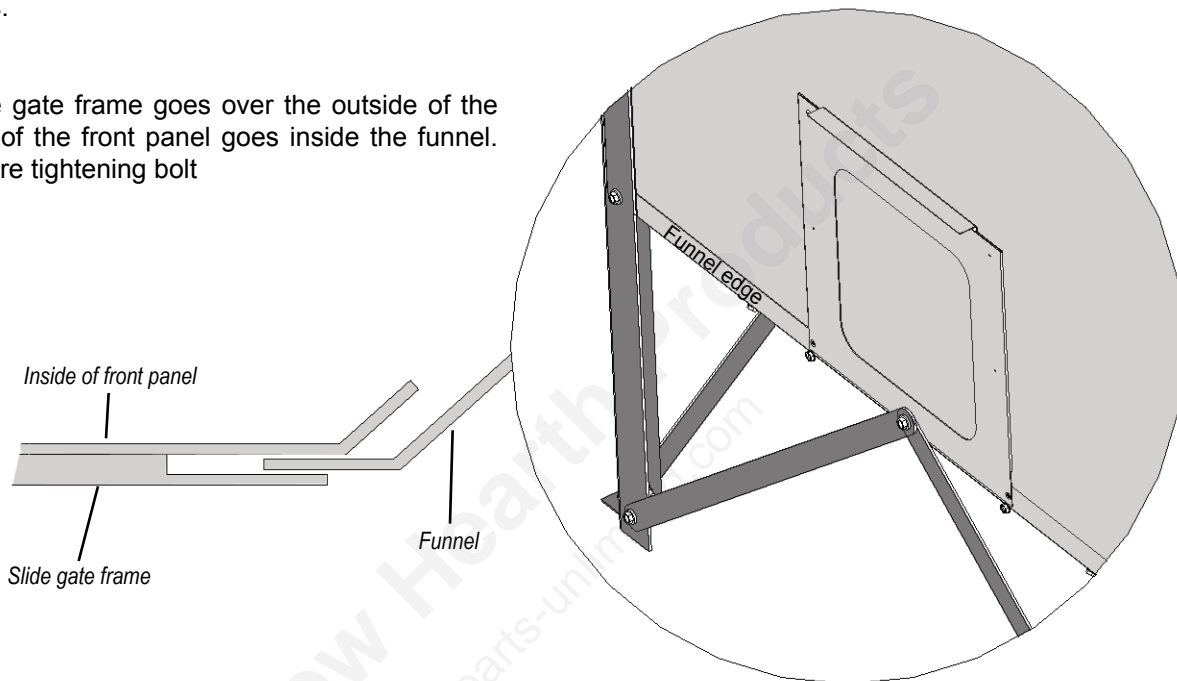
# Assembly

## Step 4: Install Front Panel to the Sides and Funnel

Hardware needed - (10) 1/4-20x3/4 bolts and (10) 1/4-20 flange nuts, (4) Pop Rivets

Spread the right and left sides enough to get the front panel between them. (refer to step 3 drawing) Once the panel is between the sides, lift the top of it to about a 10° to 15° angle. This will allow the slide gate frame to slip below the funnel edge. (see below) Lower the top of the front panel as it moves inward, until it is seated against the corners. Verify that the slide gate frame is on the outside of the funnel, before installing any bolts. Install the (4) Pop-rivets as shown below, Prior to installing any bolts.

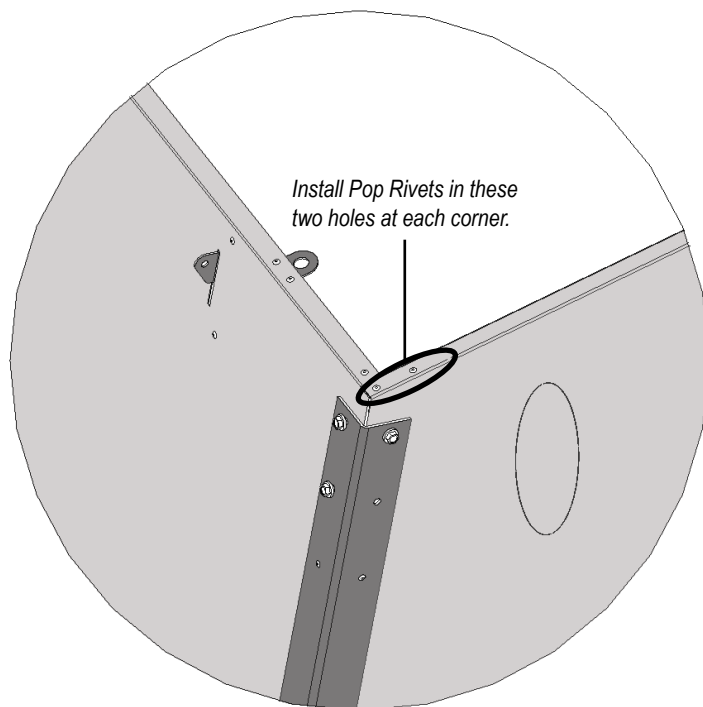
Notice how the slide gate frame goes over the outside of the funnel, but the face of the front panel goes inside the funnel. Open slide gate before tightening bolt



**Do not stand or step on the front panel while the unit is raised on blocks. Damage is likely to occur.**

Before installing bolts, on the front panel, make sure the corner bracing angles are properly aligned. Pull the front panel toward the side panel lid angles, until the Pop rivet holes line up. Install the Pop rivets, (2) at each corner.

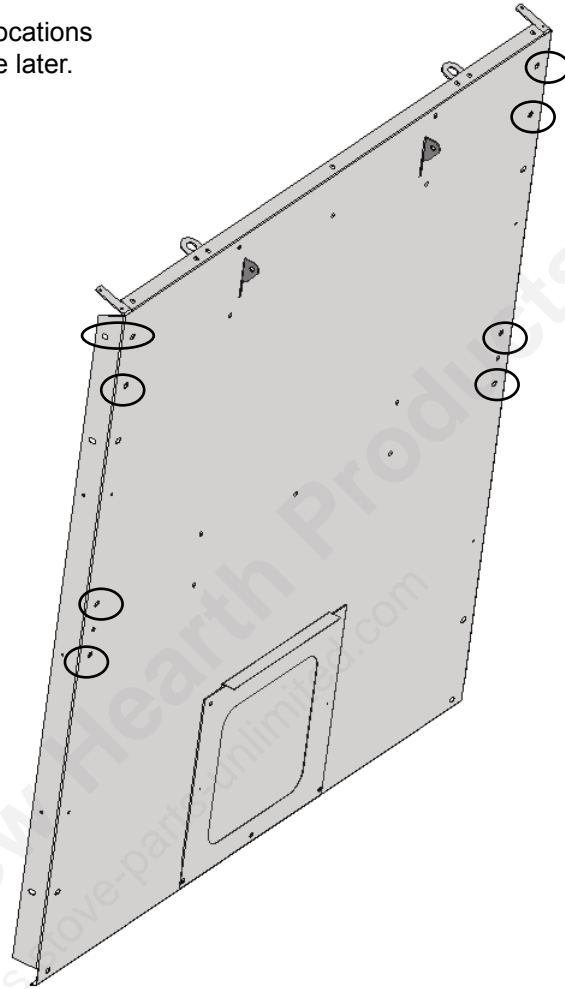
**NOTE:** You will want to clamp these sections together with the locking pliers, and align holes with an awl. Just make sure the corner stays flat so that the hopper lid seals tightly.



# Assembly

## **Step 4:** Continued

Install (10) 1/4-20x3/4 bolts and nuts only in the locations shown at left. the rest of the locations will be done later.



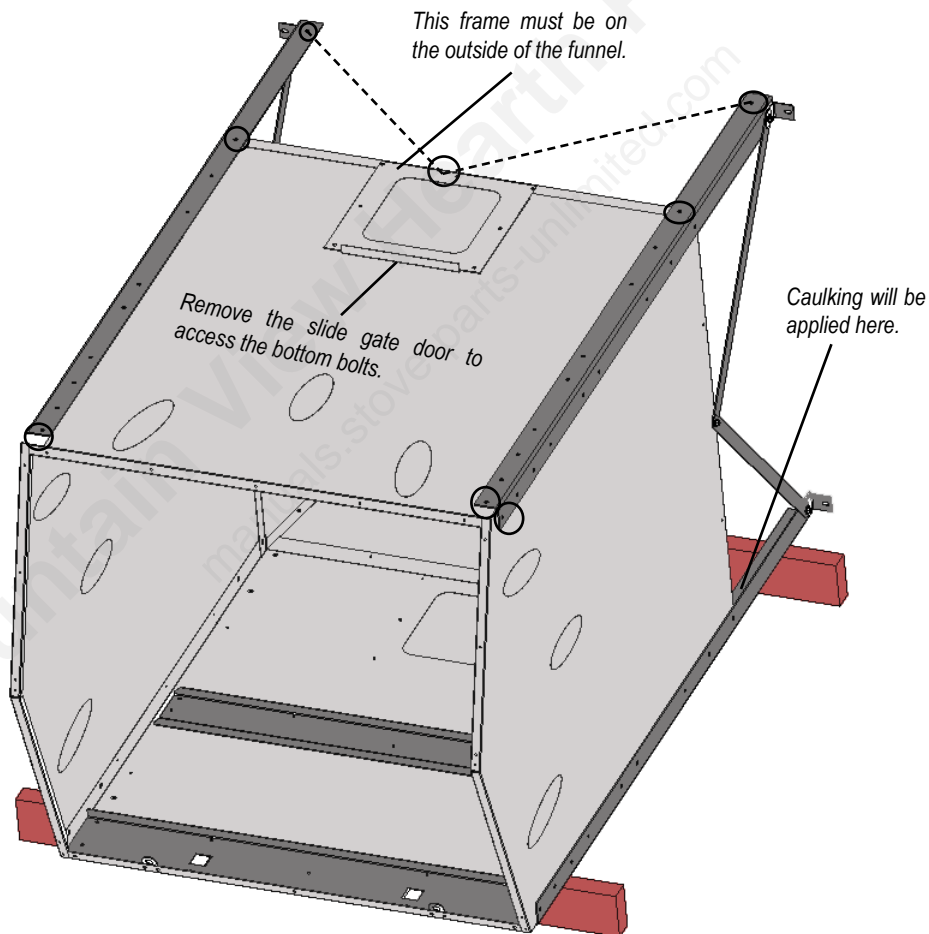
# Assembly

## **Step 5:** Install Rear Panel to the Sides and Funnel

Hardware needed - (10) 1/4-20x3/4 bolts and (10) 1/4-20 flange nuts

You have two options, You could roll the unit over and repeat the process as in Step 4, or, While holding the Rear panel from below, slide it up and into place, as shown in the drawing below.

Install (9) bolts and nuts, and (2) of the leg braces. Caulk the (4) corners from below at the leg/funnel/side splice intersections, approximately 1½ inches from each corner. (caulking will be in an "L" at each corner.)



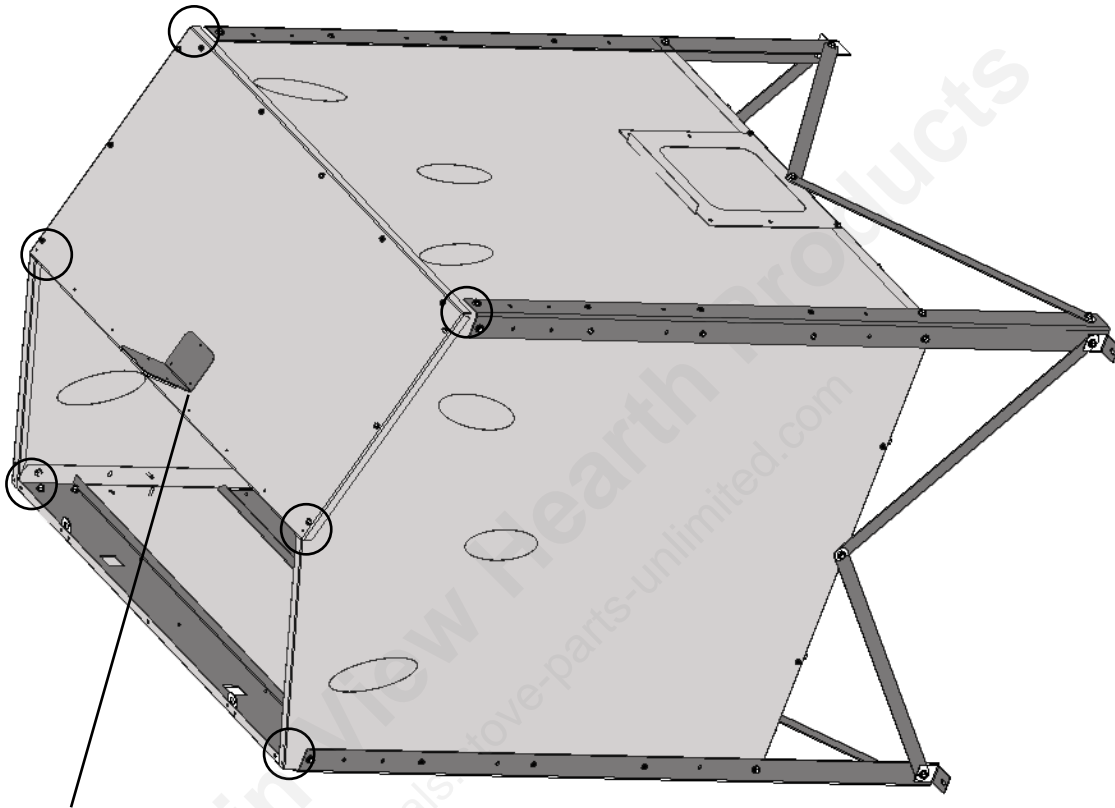
# Assembly

## Step 6: Install Rear Top to the Hopper Sides

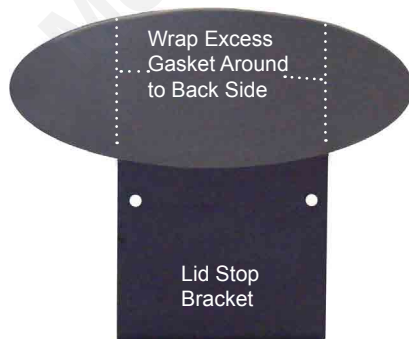
Hardware needed - (11) #10x3/4 in. Tek screws, (3) Pop Rivets

Install the rear top to the hopper as shown. Be careful not to strip the Tek screws by using too high of a torque setting on your drill.

Caulk the 6 corner joints on the top where shown. Caulk from the inside so that the caulk oozes out through the corners then wipe off the excess.



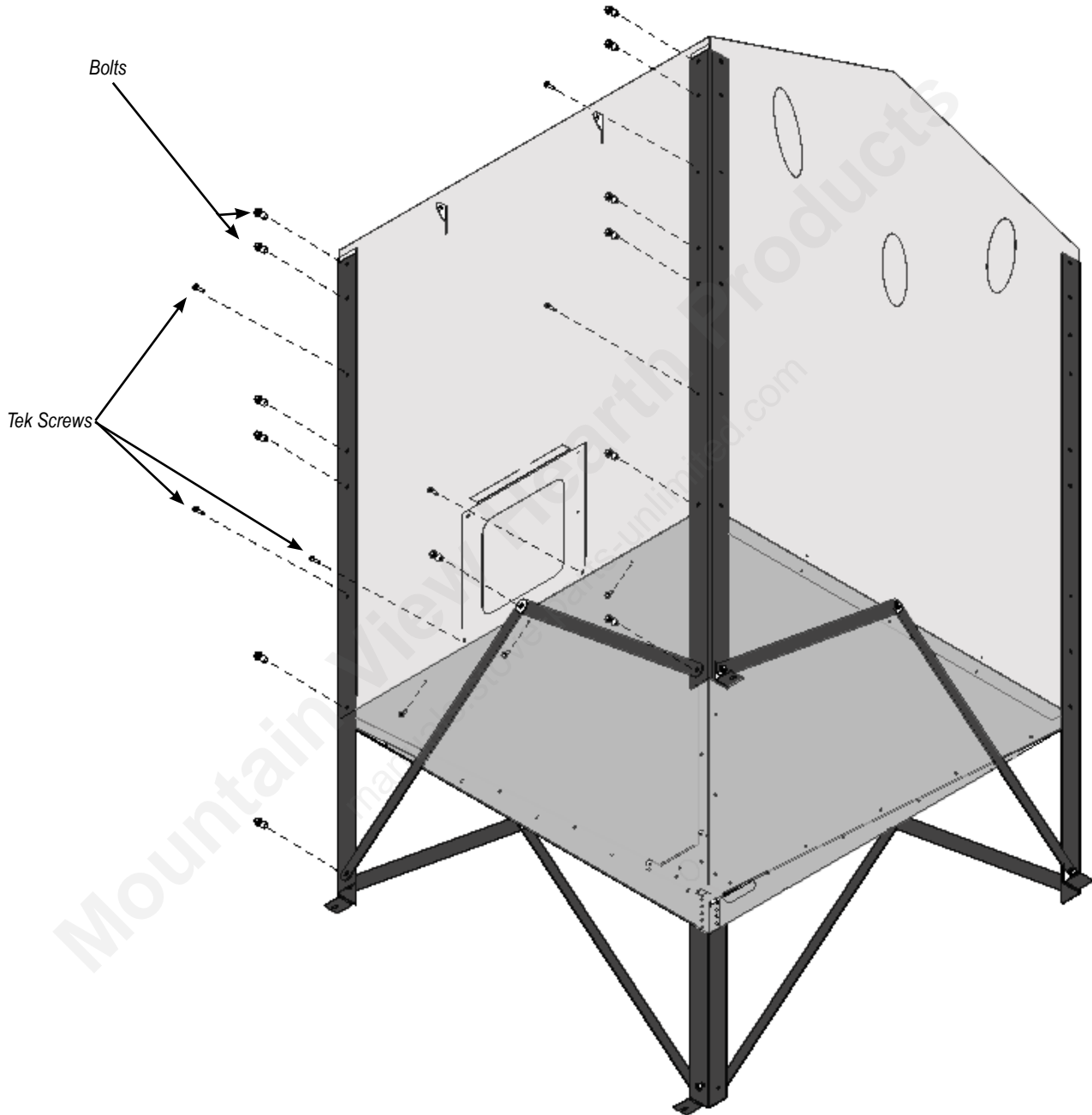
Install the lid stop, long side toward the lid, with (3) Pop rivets. Install the Lid Stop Gasket on the side toward the hopper lid. Center the gasket on the bracket and then apply it while wrapping the excess around the back side of the bracket.



# Assembly

## **Step 7:** Install Remaining Bolts and Tek Screws

Set the hopper onto its legs and finish installing the remaining flange bolts and nuts. After all of the bolts are secured, finish installing the Tek screws. The bottom bolts and nuts can be accessed through the slide gate openings. Install the (2) funnel clean-out gates.



# Assembly

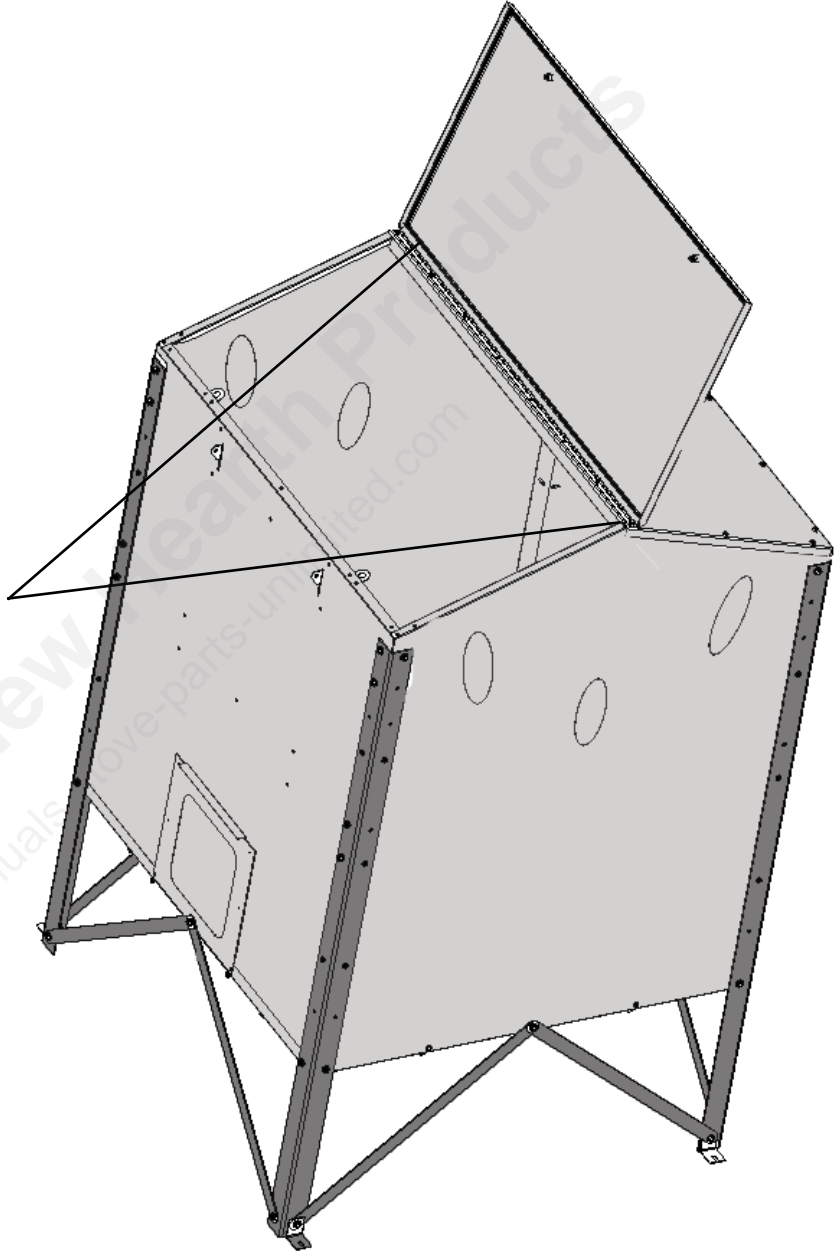
## **Step 8:** Install Hopper Lid

Hardware needed - (8) Pop Rivets

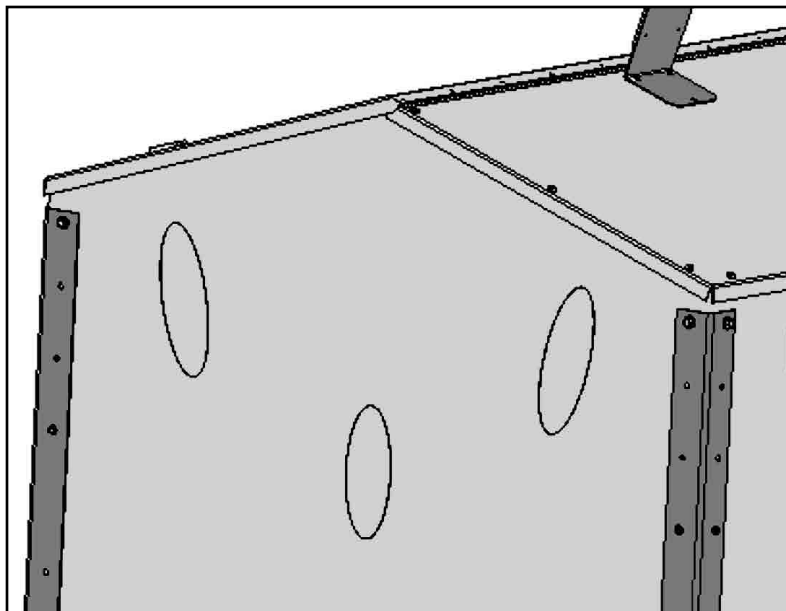
Using (8) Pop rivets, install the hopper lid as shown. Make sure that the hinge is seated tightly to the rear top before setting the rivets. It will be most helpful to start with each end rivet, then do the rest. Don't be alarmed if the lid does not latch properly. With the hopper in its final location, one of the front legs may need to be shimmed to align the latch holes.

Start with the two end Pop rivets. Once they are in, the rest will line up.

Use locking pliers to assure a tight seal.



# Assembly

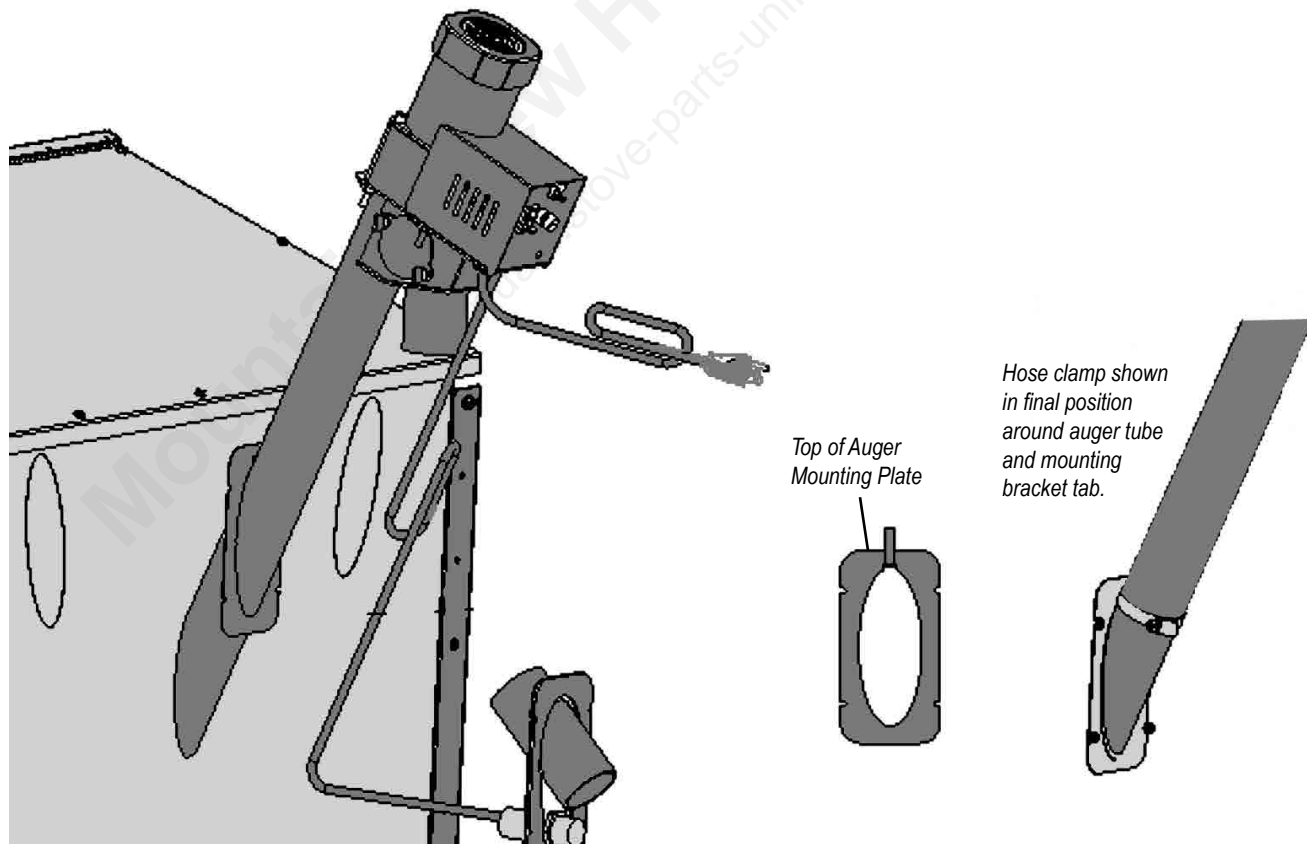


## Installing The Auger Assembly

The Bulk Storage Hopper must be located at least 16 inches from the appliance it is feeding. Once you have determined the location of the Bulk Hopper, choose the auger installation knockout that best fits your application. To remove the knockout, drill the four tabs that are holding the knockout in place. Now you are ready to install the auger. Slide a hose clamp and the auger mounting plate onto the auger tube prior to inserting into the hopper. Be sure that the gasketed side of the mounting plate is toward the end of the auger tube, and not toward the motor. The mounting plate can be slid all the way up to the motor as shown in the drawing below.

Insert the auger into the hopper so that the end of the pipe rests on the bottom of the funnel. Slide the auger mounting plate down to the hopper panel and attach using (4) #10x3/4 in. Tek screws. Next, slide the hose clamp down over the tab from the mounting

plate and the auger tube and secure the hose clamp around the auger tube, making certain the tab from the mounting plate is also inside the clamp. When installing the auger, the hopper side panel will seem to buckle with the weight of the motor. The buckling will disappear once there is fuel in the hopper. Look through the slide gate opening to be sure that the tube is all the way into the bottom of the funnel.

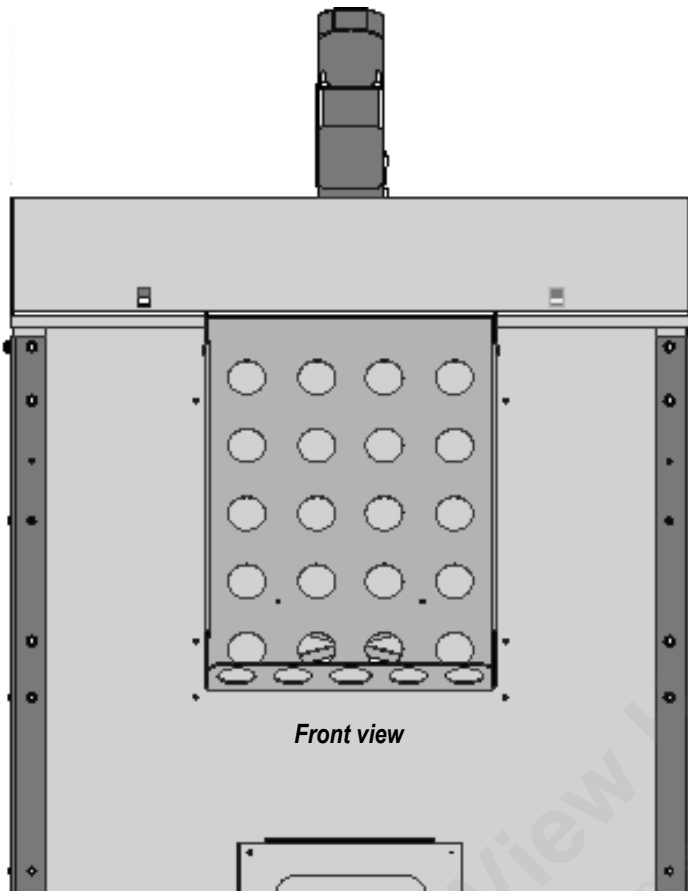


Top of Auger Mounting Plate

Hose clamp shown in final position around auger tube and mounting bracket tab.

# Assembly

## Installing The Bag Lift Assist



Hold the Bag lift assist in place, aligning it with the tabs on the hopper front. Slide the 1/4-20x1/2" Hex bolts through the tabs from the inside, outward. Install the (2) locking style nuts onto the bolts and tighten just to where it is snug. The bolt will act as a hinge point for the lift assist, so you don't need to make it too tight.

## Using The Bag Lift Assist

Lift the pellet or fuel bag onto the lift assist, slice the top of the bag, and then tilt the lift assist up to empty the fuel into the hopper. Be careful not to let the bag or any part of it fall into the hopper, as it may cause restriction in the fuel flow.

**Do not load Hopper with fuel until you are certain of its final positioning.**

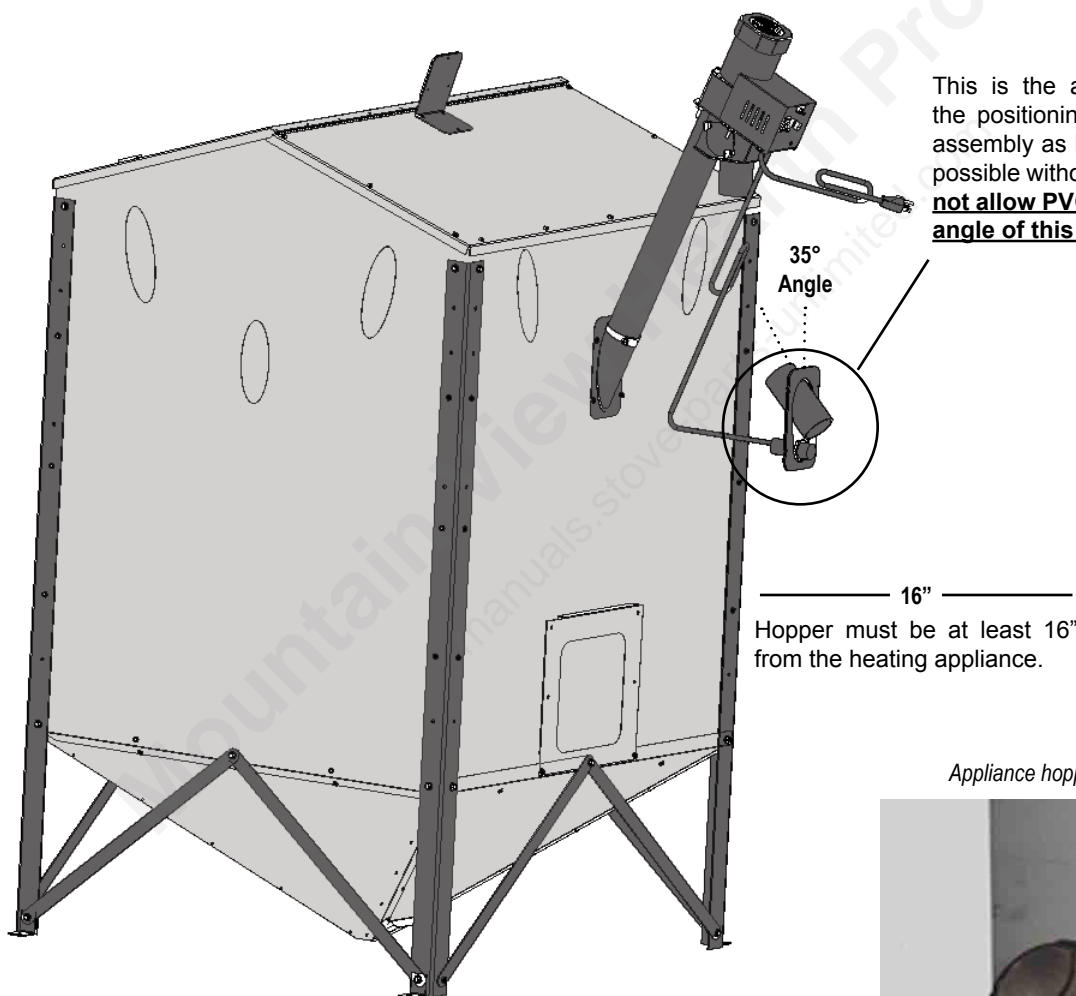


# Installation

## Installing To The Heating Appliance

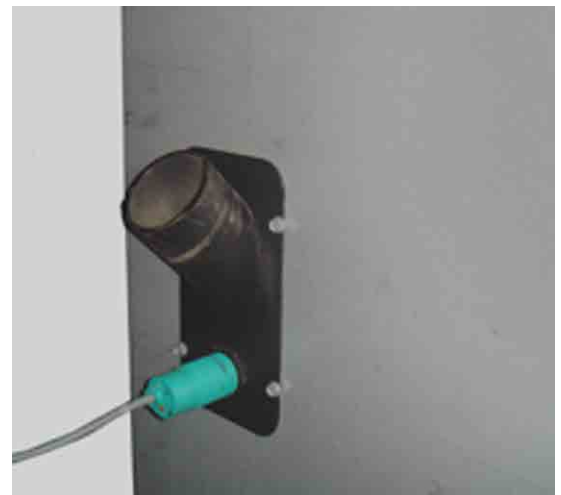
Using the metal template, mark the hopper of the heating appliance for installation of the PVC flex pipe and fuel sensor. Using a saber saw, with metal blade, or the right and left handed tin snips, cut the hole in the appliance hopper. Attach the appliance mounting plate, using (4) #10x3/4 Tek screws, making sure that the gasket seals around the hole. Cut the PVC flex pipe to the required length and attach it at each end with a hose clamp. Keep the PVC flex pipe as short as possible, while maintaining the angle of the appliance inlet stub. Sagging Flex will restrict fuel flow.

Flip the power switch to the "Off" position prior to powering the Auger motor. Plug the cord into a properly grounded three-pronged outlet only. **Never reach into the bottom of the hopper without first disconnecting power to the auger. Serious injury could occur.** Once the power cord is properly connected, you can load the bulk hopper with fuel and flip the power switch to the On position. Any time the fuel level in the appliance drops below the fuel sensor, the Bulk Hopper motor will power up and refill the appliance hopper to a level above the fuel sensor.



This is the appliance mounting plate. Note the positioning of the fuel sensor. Keep this assembly as high on the appliance hopper as possible without interfering with lid closure. **Do not allow PVC flex to sag more than the 35° angle of this stub.**

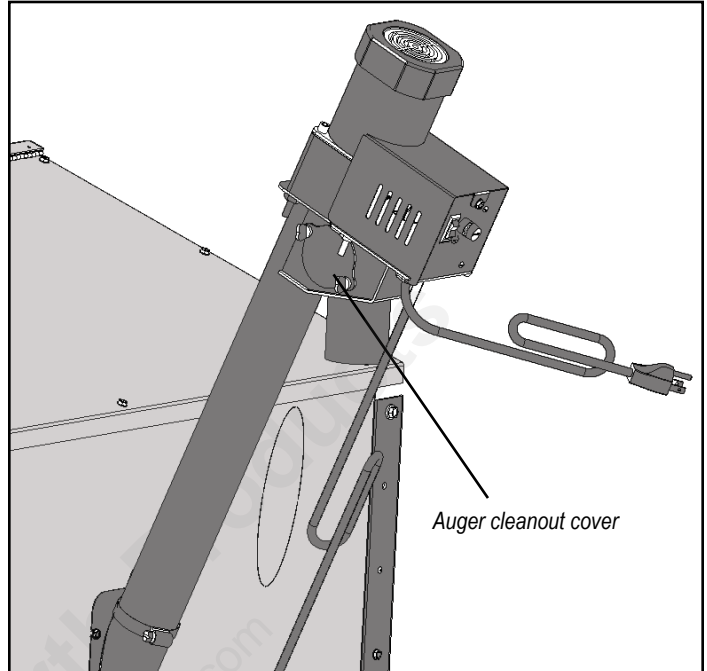
*Appliance hopper with mounting plate installed*



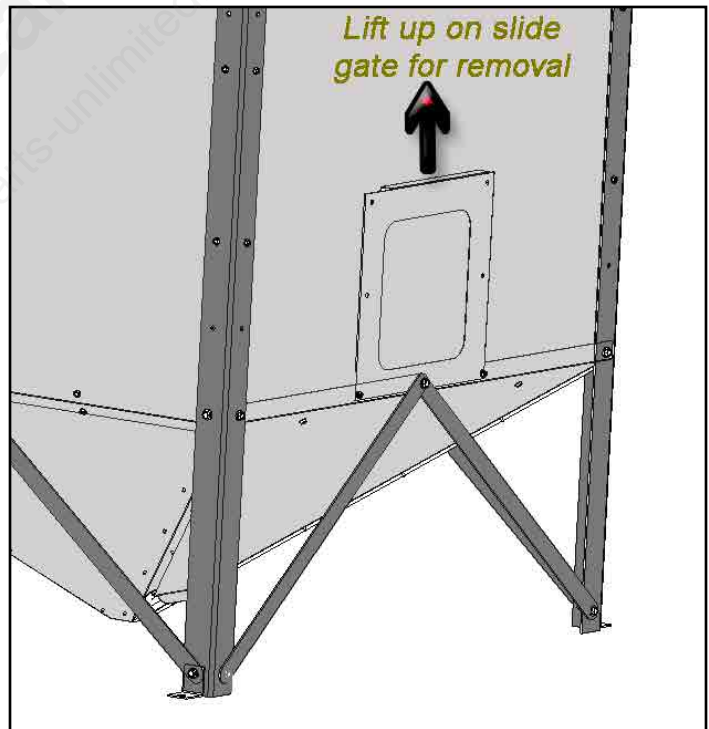
Most Pellet Burning Appliances operate under a sealed combustion system. Therefore, it is important to keep the Bulk Hopper sealed as well. Never leave the hopper lid open. Also, inspect and maintain the lid sealing gasket. Make sure there are no pellets or fuel particles accumulated in the hinge area or on the sealing rim of the hopper before closing the lid.

# Maintenance

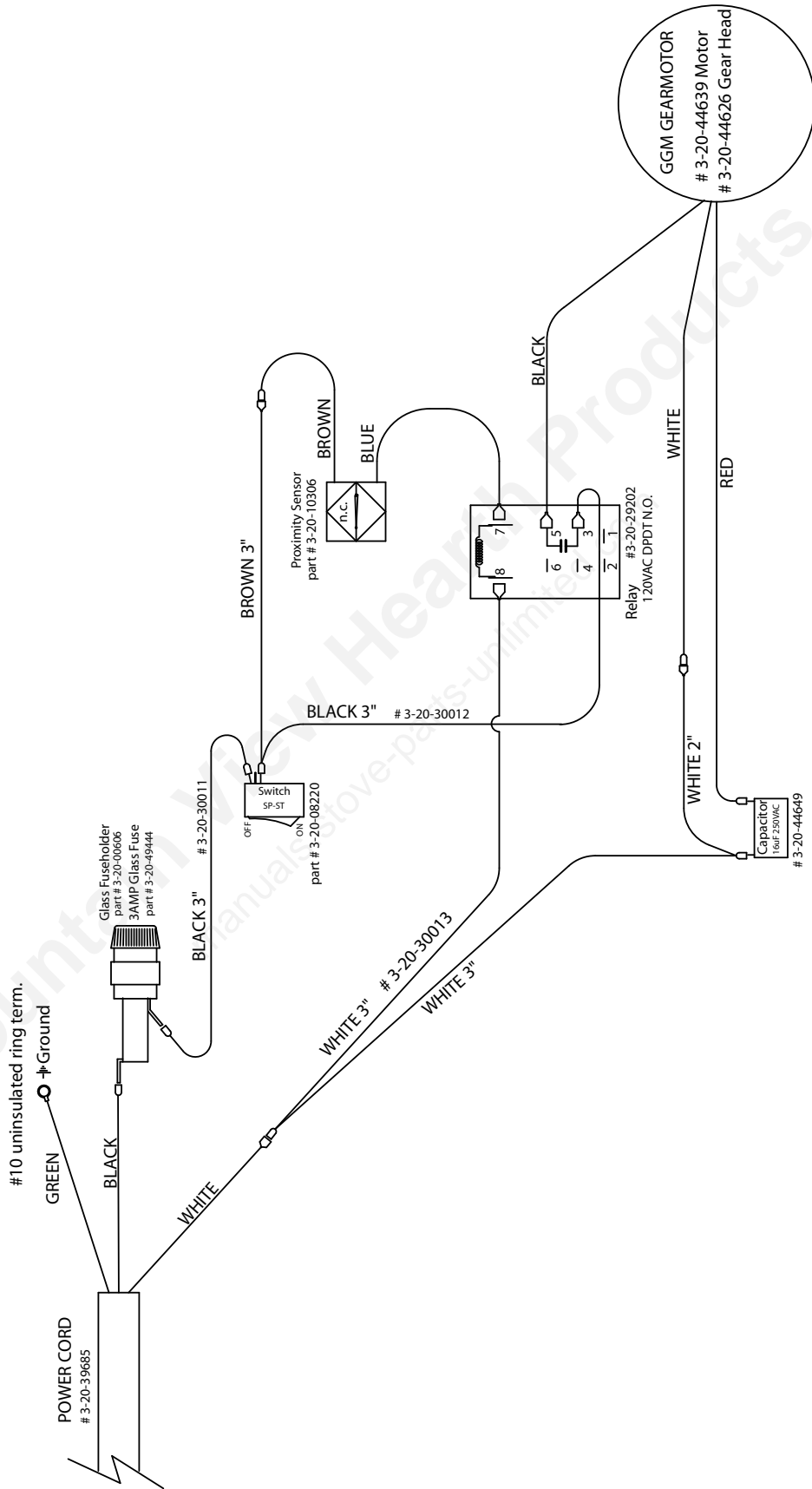
No matter the fuel you are using, there is going to be some buildup of fines or dust. Allow the Bulk Hopper to run empty, after the first loading, to determine the need and frequency for cleaning. Do not allow fines to build-up more than 1 to 2 inches. **Disconnect power before opening the slide gate.** With the slide gate(s) open, you should be able to simply vacuum the fines or dust from the bottom of the funnel. Inspect the lid seal frequently, and replace gasket as necessary. Do not leave fuel in hopper when not in use. At the end of the heating season, allow your Bulk Hopper to run empty, and clean thoroughly. This will lessen the chance of rust formation. Carefully inspect each end of the PVC flex pipe to be sure they are not leaking air. All gaskets are to be replaced by HHT supplied components only. These items are available from your dealer. The Auger motor is a sealed gearbox and should provide many years of service with minimal maintenance required. Keep the motor and all other electrical components free from dust and pet hair etc...



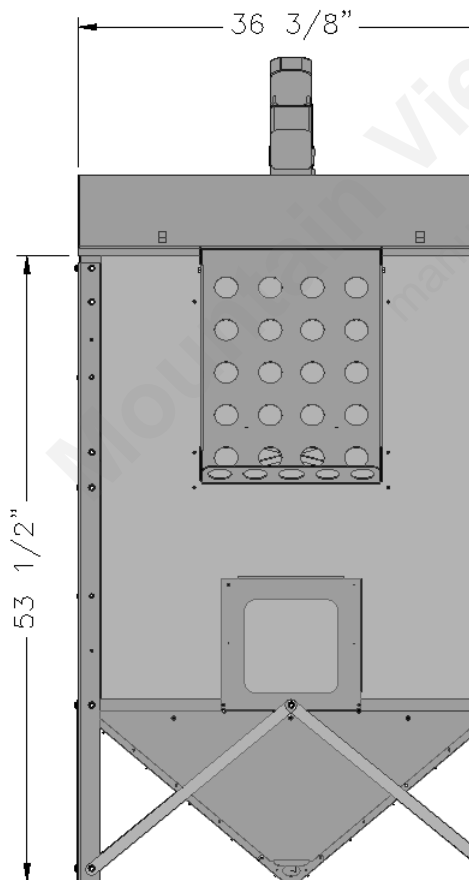
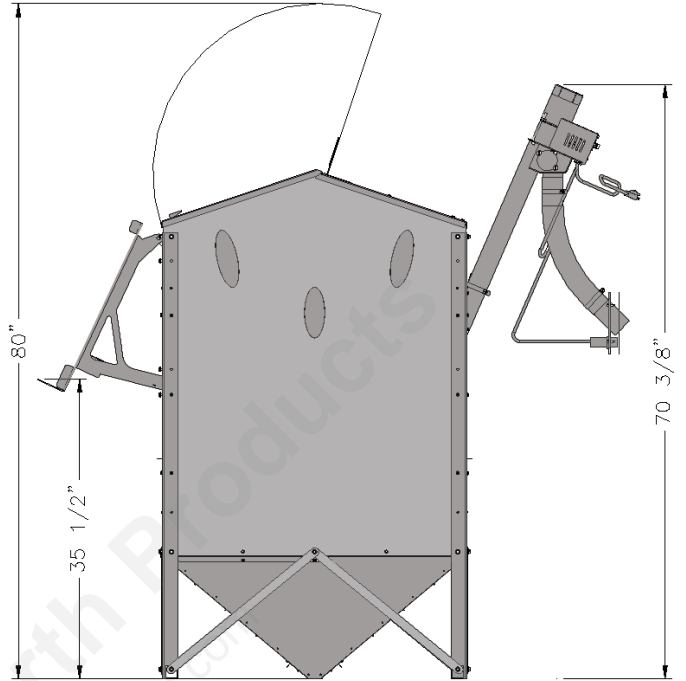
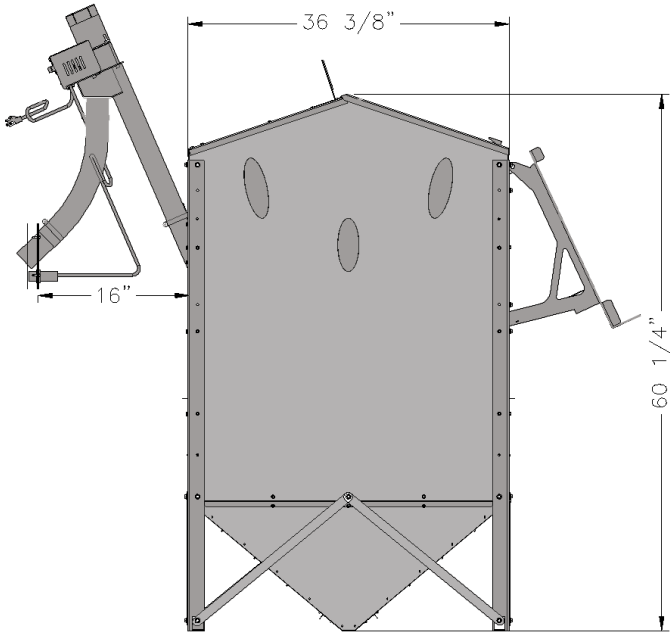
**Save your fingers!**  
**Disconnect power cord before servicing.**



# Wiring Diagram



# Specifications



## Specifications

Weight (empty) .....	200 Lbs.
Feed Rate (pellets) .....	100 Lbs./hr.
Power Requirement .....	120V AC/85W
Fuse Rating .....	3 Amp
Feed Motor .....	50 r.p.m. (<1amp)

## Approximate

Fuel Capacities: .....	36 ft <sup>3</sup>
Wood Pellets .....	1500 Lbs.

Mountain View Hearth Products  
manuals.stove-parts-unlimited.com

# Warranty

## HHT BULK HOPPER LIMITED WARRANTY

Hearth & Home Technologies Inc. (“HHT”) extends the following warranty for all HHT Bulk Hoppers (the “Products”) where purchased from an HHT authorized dealer.

### WARRANTY COVERAGE:

Subject to the conditions, exclusions and limitations set forth below, HHT warrants to the original owner of the Product at the site of original installation that the Product will operate free from defects in material and workmanship under normal residential conditions and use during the warranty period. HHT will furnish necessary parts and labor, at its sole expense, to repair or replace, at its discretion, the Product covered by this warranty if it is determined to be defective in material or workmanship during the warranty period.

### WARRANTY PERIOD:

The warranty period runs for one year, beginning on the date of invoice for the Product.

Warranty Conditions: This warranty applies only to Products: (i) installed, operated, and maintained as recommended in the Product user’s manual; (ii) purchased through an HHT authorized dealer; (iii) while remaining at the site of original installation; and (iv) that have not been altered after leaving the factory.

How to File a Claim: Claims must be made within the warranty period to the dealer who sold the Product. If that dealer cannot provide the warranty service, contact the nearest HHT authorized dealer. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the Product. Travel and shipping charges for parts are not covered by this warranty.

### Warranty Exclusions:

This warranty does not cover the following: (1) minor surface scratches and blemishes and changes in surface finish as a result of normal use; (2) consumable and normal wear items, including, without limitation, gaskets; and (3) damage resulting from: (i) failure to install, operate or maintain the Product according to the installation and operating instructions and listing agent identification label furnished with the Product; (ii) failure to install the Product according to local building codes; (iii) shipping or improper handling; (iv) abuse, misuse, continued operation with damaged, corroded or failed components, accident, or incorrectly performed repairs; (v) environmental conditions; (vi) use of fuels other than those specified in the operating instructions; (vii) installation or use of components or accessories not supplied with the Product or authorized and approved in writing by HHT; (viii) modification of the product not expressly authorized and approved by HHT in writing; or (ix) interruptions or fluctuations of electrical power supply to the Product; (4) non-HHT components or accessories used in conjunction with the Product.

### Limitations of Liability:

Repair or replacement in accordance with the provisions of this warranty will be the owner’s exclusive remedy for and will constitute HHT’s sole obligation under this warranty, under any other warranty (express or implied), or in contract, tort or otherwise. No employee, agent, dealer, or other person is authorized to give any warranty on behalf of HHT. TO THE EXTENT ALLOWED BY LAW, HHT MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HHT WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF DEFECTS IN OR USE OF THE PRODUCTS. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you also may have other rights, which vary from state to state. The duration of any implied warranty is limited to the duration of the warranty period specified herein.