

# 8.5 Ton Assembly Instructions

## Parts list for assembly.

- 6- Legs 2 1/2 Angle X 92" Long
- 6- 1 1/4" Angle X 27 1/4" Long.
- 6- 1" Flat Straps 23 3/4" Long
- 1- Cover & Opener & Hinge Assembly
- 6- Right Hand 1" Flat Straps 78 3/8" Long
- 6- Left Hand 1" Flat Straps 78 3/8" Long
- 6- Cone Supports 2" Angle X 60" Long
- 12- 1 1/4" Angles X 42" Long
- 6- Leg Pads
- 1- Bolt Package 8.5 Ton
- 1- 6.5 Ton Top Section
- 1- Lower Cone Extra Tall
- 1- Lower Ladder 94" W/ 11" Spacing W/ 4-Ladder Mounts 6" Long & 2-Ladder Support Straps 1" X 51 3/4" FS
- 1- Middle ladder 58 3/4" W/ 11" Spacing & 4 Ladder mounts 1" X 6 1/2" Flat Straps
- 1- Top Ladder 58 3/4" W/11" Spacing W/ 2 Hand Rails 1" X 28" Long Angle & 4 - Ladder Mounts 1" X 6 1/2" FS



# 8.5 Ton Assembly Instructions

## Setup: 1

In this step you will need the bolt bag marked #1 from the bolt box. Lay 2 legs on saw horses, or a flat surface. Leg tabs to the left, the v will open to the right, attach the foot pad to the bottom of each leg with 3/8" hex bolt & securely tighten. Next find one left bend and 1 right bend flat strap (1" X 78 1/2" long.) Lay these on the under side of the leg so the straight end is to the tab on the leg & they cross to make an X. The bend should line up with the edge of the angle on the other leg to make a rectangular shape when complete. Lay the spacer angle ( 1 1/4 X 42") between the legs so they are on top the leg angle and bolt in place. Putting the bolt from the out side in so the nut is on the inside of the leg finger tighten only. Repeat this assembly 2 more time so you have 3 set's. See Diagram's below.

With help stand 2 sections and fill in between them the same way you built the first 2 sections this will form 1/2 a hexagon, now fill in between the remaining sections to form a full hexagon. Finger tighten the bolts only.



**Lower Left Leg Assembly**



**Upper Left Leg Assembly**



**Lower Right Leg Assembly**



**Upper Right Leg Assembly**

Next mount the cone support angles (2" X 60" angle) to the top of the leg using 1/2" bolts. The angle on the leg & cone support face the same way. Finger tighten only. (Dia 1) Now attach the 1 1/4" X 27 1/2" Angle to the lower end of the cone support with 3/8" hex bolts. Attach the other end of the angle to the leg. When attached this angle should be horizontal. (Dia. 2) Do this with all 6 legs. Finger tighten only. Now take the 1" X 23 3/4" flat strap & bolt to the bottom of the cone support angles they will over lap to connect all cone supports. (Dia. 3) Diagrams below.



Dia, 1



Dia 2



Dia 3

**Step 2:**

Insert the bottom cone into the frame work. Adjust the frame so the cone is sitting evenly in the frame and as far down in the frame as possible. (You may need to use something heavy to weight the cone down into the stand) Now drill the holes that are in the cone supports through the cone and bolt in place using the 5/16 X 1" carriage bolts do all 6 leg and tighten as you go.

**Now tighten all the other bolts in the frame work.**



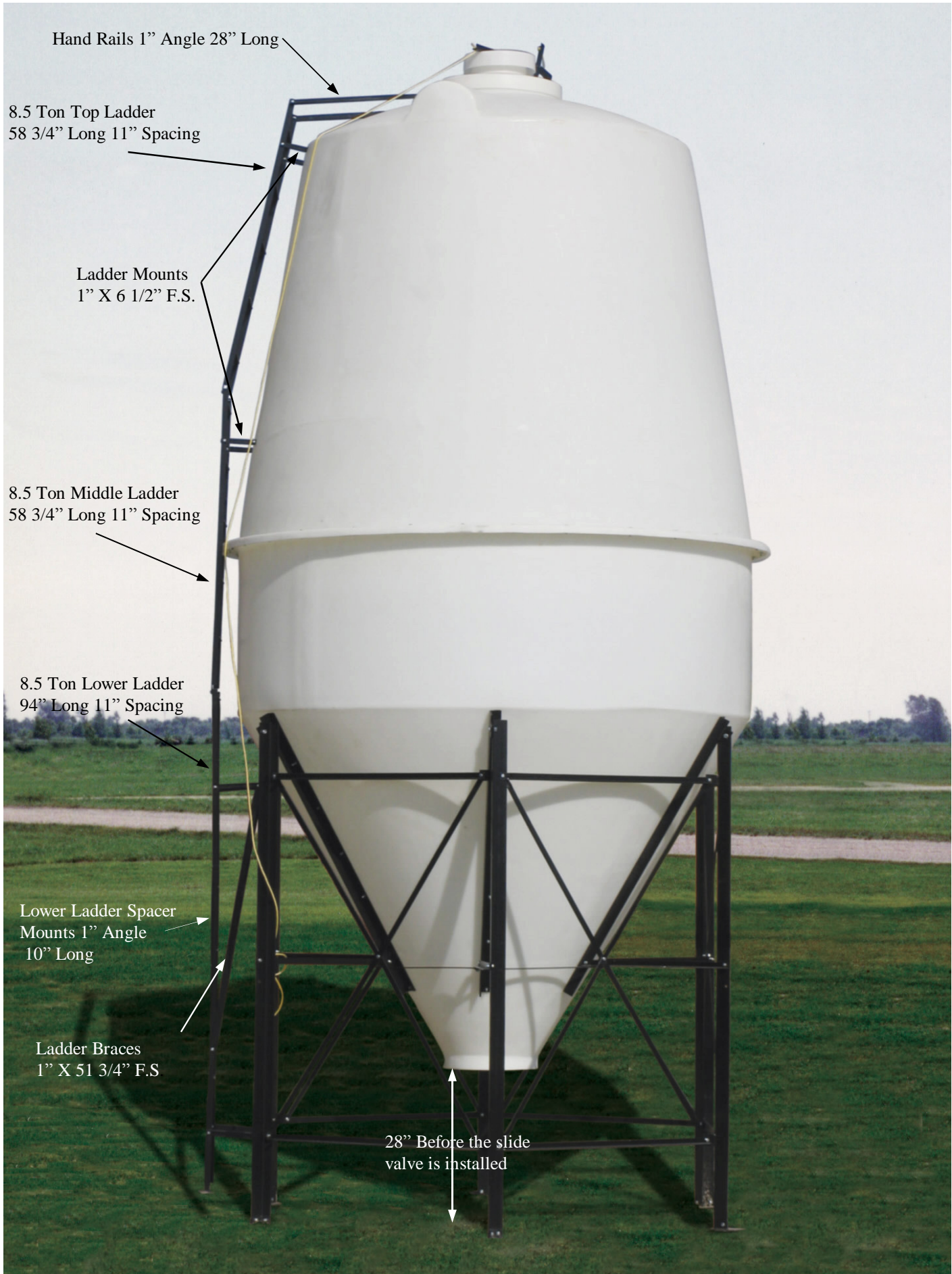
Tall Cone to Stand



Top Section

**Step 3:**

With help place the top section on the cone. Center the top section on the lower cone. (If the lower cone is to large you may need to trim some off with a jig saw.) Drill 5/16 holes through the two parts about 10" apart. Use the 5/16" hex head bolts and place one of the seal washers on the bolt with the rubber part of the washer down with the bolt through the plastic place a steel washer on the bottom side and than put the nut on. (Tighten the nut snugly do not over tighten.) **When you have the bin assembled you may want to also cover the bolt & washer with the culking supplied.**



Hand Rails 1" Angle 28" Long

8.5 Ton Top Ladder  
58 3/4" Long 11" Spacing

Ladder Mounts  
1" X 6 1/2" F.S.

8.5 Ton Middle Ladder  
58 3/4" Long 11" Spacing

8.5 Ton Lower Ladder  
94" Long 11" Spacing

Lower Ladder Spacer  
Mounts 1" Angle  
10" Long

Ladder Braces  
1" X 5 1/4" F.S.

28" Before the slide  
valve is installed

### Step 3:

With help place the top section on the cone. Center the top section on the lower cone. (If the lower cone is to large you may need to trim some off with a jig saw.) Drill 5/16 holes through the two parts about 10" apart. Use the 5/16" hex head bolts and place one of the seal washers on the bolt with the rubber part of the washer down with the bolt through the plastic place a steel washer on the bottom side and than put the nut on. (Tighten the nut snugly do not over tighten.) **When you have the bin assembled you may want to also cover the bolt & washer with the culking supplied.**

### Step 4:

Now mount the bottom section of the ladder to the stand in the section you want. The bottom section of the ladder will mount to the upper & lower leg spacer angles. Measure 8 1/4" from the center each way (16 1/4" total) and drill a 5/16" hole there will be a total of 4. Mount the ladder to the leg spacers using the 1" X 10" angles. The angle will bolt to the side of the ladder with the angle out and down. Dia.1 (make sure the angle with 2 holes on one end is in towards the leg spacer is at the top) and will fasten to the bottom side of the leg spacer. The top mount will fasten to the side of the ladder and the angle will also be out and down. Dia 2 Now mount the ladder support strap (1" X 5 1/4" flat strap) to the side of the ladder in the hole between the 1st and 2nd step with a 5/16" bolt. The top of the support strap will fasten to the side of the upper ladder mount. Also in Dia 2 Tighten all Bolts Securely.

It is easiest to lay the bin on it side to attach the upper parts of the ladder, lay the bin with the lower ladder facing up. Attach the 1" X 6" Flat straps with the bend on one end to the side of the upper ladder putting the bend out. Place the upper ladder to the top of the lower ladder and bolt in place with 5/16" Hex bolts. You need to push down on the upper ladder to make contact with the plastic of the bin. Now drill the holes where the ladder mounts touch the plastic and bolt in place using the 5/16" Carriage bolts from the inside out. Tighten securely The top hand rails go from the top of the ladder towards the top of the bin bolt in place using 5/16 carriage bolts from the inside out on the plastic and 5/16 hex bolts at the top of the ladder.



### Step 5: Cover Assembly

Place the cover opener on the top of the assembled cover so it's in the middle of the 2 bolts already in the cover. Place the opener so the lower mount touches the lower part of the cover. Hold the cover opener securely in place while drilling the 5/16" holes in the cover. Use 5/16" carriage bolts from the inside out and tighten securely.

Now center the hinge to the cover opener and flush the bottom of the hinge to the bottom edge of the cover. Hole the hinge in place securely and drill the 2 5/16" holes, bolt the hinge in place using 5/16" Carriage bolts. Next center the cover on the opening of the bin (make sure the cover opens away from the ladder) hold the hinge down and drill the 2 holes and bolt in place with 5/16 carriage bolts from the inside out. Tighten all bolts.

Now tie one end of the rope to one side of the cover opener securely. Cut the rope and repeat with the other end of the cover opener. Stand your bulk bin up and place it on your pad and fasten down.

# 4.5 Ton, 6.5 Ton Slide Valve & Boot Assembly

## Installing the Slide Valve & Boot

### Step 6: Bolt Bag 5&6

The collars now bolt right on to the bottom of the cones you may need to do some trimming to make a better fit. There is a straight, a 30 degree and a 45 degree collar available

Hold the collar up to the cone and Drill 1/4 " Holes about 2" apart, (the bolt pattern is marked on the collar). Use 1/4" X 1" Carriage bolts from the inside out, place a washer and nut on to fasten in place. After installing the collar run a bead of caulking around the top of the collar to help seal out the rain. Bolt the slide valve to the collar using 1/4" X 1" Carriage bolts. Use 4 down the sides and 2 on the ends. (the bolt pattern is marked on the body of the slide valve).

If you add the boot to the slide valve (the bolt pattern is marked on the body of the slide valve). Use 1/4 X 1" Carriage bolts from the inside out, 5 down the sides and 3 on the ends. There is a nylon bushing supplied with the boot you can use to help hold the shaft in place at the back of the boot. If the hole is to small drill it to the size you need.

