

Uncrating the Seed Cleaner

Caution there are many parts that can not be easily replaced. Please do not use force to get the parts out of their locations in the crate. They went in place pretty easy and they should come out pretty easy if you take things apart in order – I know “who reads instructions”, Right? Please Note: most of the parts in this crate are NOT in their proper position for final assembly.

Step 1

Position the crate so that the top is UP, according to the markings on the crate.

Remove the screws attaching the plywood to the 21” X 24” side of the crate marked “Remove First”

After removing the foam padding sheets, You should see what is pictured below



Pull the paper packing material out from under the curved sheet metal near the bottom – yellow square on the picture

Pull out the tool kit

Pull out the blue plastic tarp – the tarp is primarily intended to be a drop cloth to spread out on the ground to catch any fasteners that fall down.

The tarp can also be used to cover the crate during land transportation to keep it from getting soaked by rain.

Step 2

Unscrew the plywood from the remaining three sides and set it aside

Unscrew the plywood from top and set it aside

(You can unscrew the plywood on the bottom after most of the unpacking is done.)

This is what you should see on each of the long sides:

(however, only the C-D side has the boards and pivot rods strapped to the diagonal brace)



This is the view of the top without the plywood and the padding:



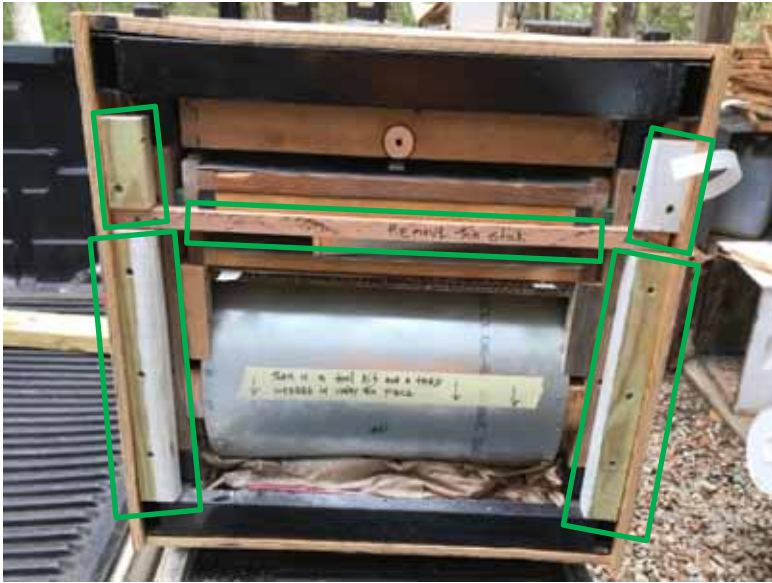
The top shoe (box-frame that holds the screens) is upside down. If the sheet-metal surface that is in view is damaged, it will have to be skillfully flattened or replaced.

On the B-C end of the crate (pictured below) a full set of scale drawings in a ziplock bag should be tucked into a gap in the blower housing. If not, they can be downloaded from the same place that you found these unpacking instructions.



Step 3

Remove the blocking from both the ends of the crate's wooden frame legs (green outlines below) Save the screws, you might need them.



Step 5

Remove the screen retainer rails (2) and the pivot rods (4) that are strapped to the diagonal brace on the CD side. If the rails are damaged, they can be duplicated from local wood that is fully dried. Put the pivot rods in a safe place where they will not get bent. If they are bent, they need to be very carefully straightened.



Step 6

Remove the eight 4" screws that hold the four steel legs in place



Step 7

Remove the two black steel diagonal braces by unscrewing them from the temporary wood crate-legs on each side of the crate.



Step 8

CAREFULLY use a hammer and a block of wood, to prevent denting the steel, to work the top frame up off the tops of the temporary wood legs. Use light hammer blows to work the top frame off at all four corners. The upper shoe (box) is pretty tightly held inside this frame



Step 9

After the top frame is removed and set aside, lift out the top shoe and put it aside, being careful to NOT dent the sheet-metal underside, which is facing up in the crating position. Stand the shoe on its closed end or on its side to keep the metal surfaces protected.

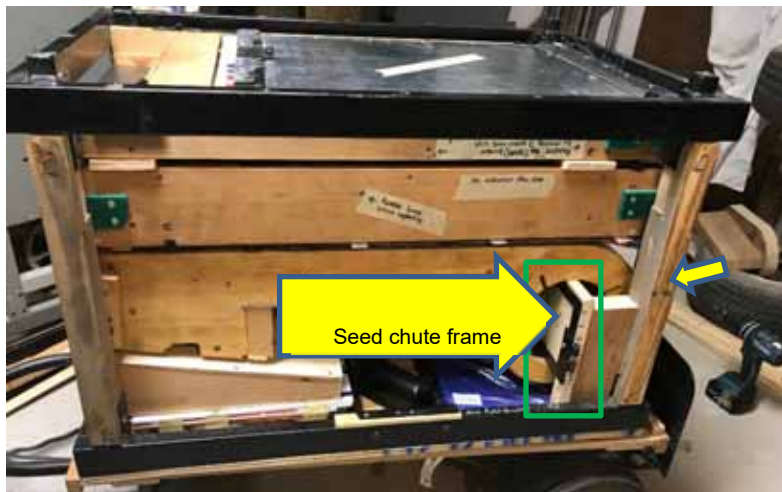
Step 10

Lift out the lower shoe and carefully set it aside so that the screens will not be damaged by falling over or being stepped on. Stand the shoe on its closed end or on its side to keep the metal surfaces protected.

There may be retaining blocks screwed into the temporary wood crate-legs that will need to be removed to get the lower shoe out of the crate.

Step 11

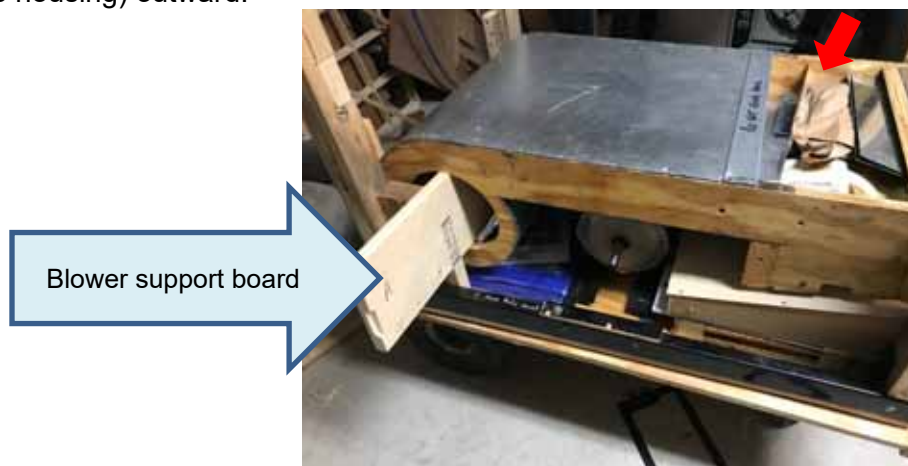
Remove the seed-chute frame that is slid into the blower housing and screwed to the support board. (Green box on image, below)



Step 12

Next remove the blower support board by taking out the anchoring screws and sliding it out of the housing. Remove the blower housing retaining blocks that are screwed to the insides of the temporary wood crate-legs. (yellow arrows, above)

Take the parts that are stuffed into the blower housing (red arrow, below) out before lifting it out of the frame. In order to get the seed-exit chutes out, you will need to pivot the air deflector (on the end of the housing) outward.



Step 13

Lift the blower housing out of the frame and set it on its side so that it can not fall over and dent to sheet metal skin. If you have not already done so, remove the two seed-exit chutes that are fitted into the blower housing. Save the corrugated plastic material for other handy uses 😊

Step 14

Under the B-C end of the blower housing (the exhaust end) you will now see the top of the parts box. (see below). DO NOT open this box until you are ready to assemble the seed cleaner machine. There are a lot of unique pieces that you cannot readily replace locally



Step 15

Remove the four bolts that hold the motor mount bracket into the frame (red oval). Set the motor and its bracket aside. Remove the capacitor and fasten it in place on the motor being careful to match the color coding on the wire ends. Use one small drop of thread locker solution (packed into a bag that you took out of the blower housing in step 12) on each of the screws. Tighten the screws, but do not strip the threads.



Step 16

Take the temporary wood frame legs out of the sockets in the bottom black steel frame marked A' B' C' D'

Put these aside, they will not be used in the machine when it is assembled.

Step 17

Remove the seed hopper assembly that was under the parts box. Do not unwrap it until you are ready to assemble it. All of the pieces are unique and will be hard to duplicate. Set this package aside where you can find it later. The corrugated plastic sign cushion material can be repurposed – you won't need it for the seed cleaner.

Step 18

Turn the bottom frame over and remove the screws that fasten the crating plywood to it.

You are now ready to begin assembling the seed cleaner

There are more PDF files at the download site that will give you step-by-step instructions on assembly