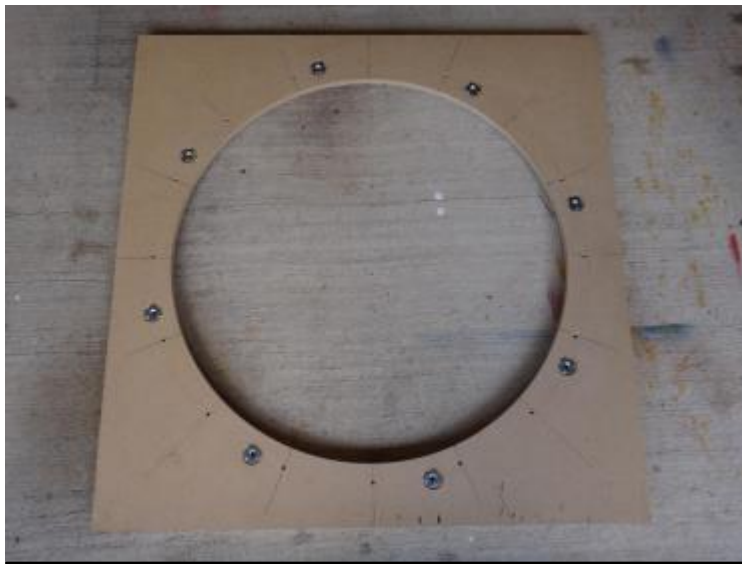


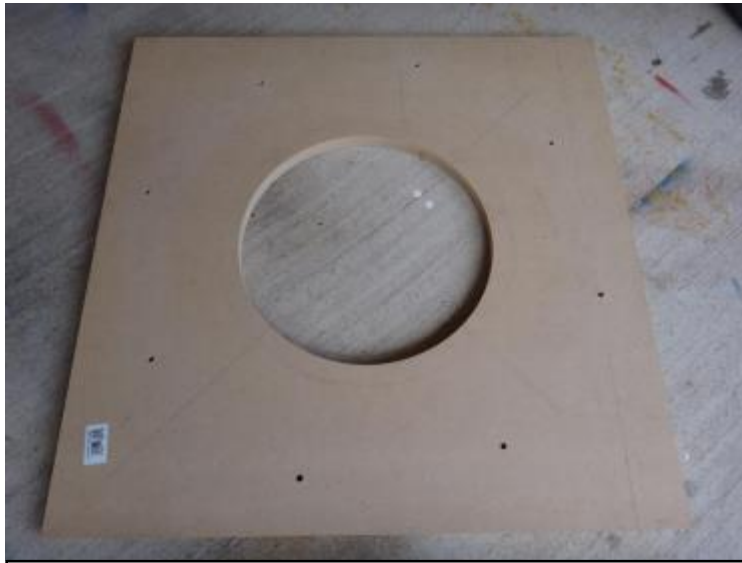
All of the separator parts except the bell mouth.



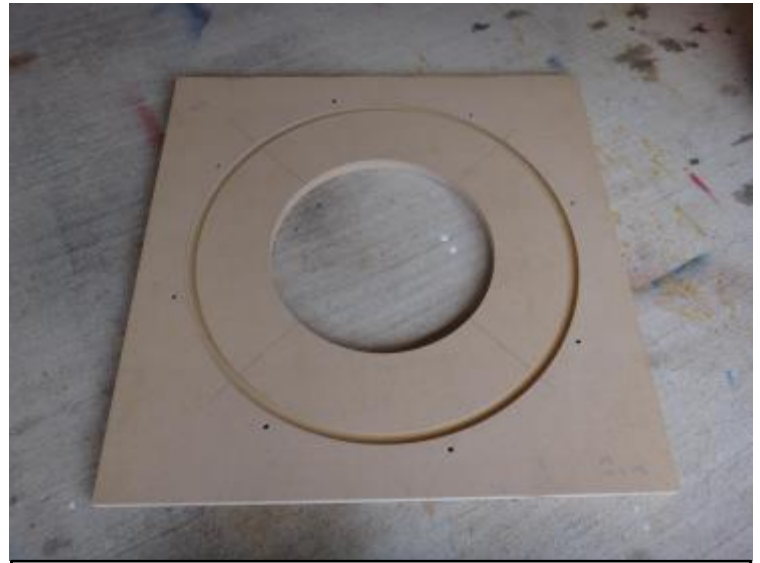
BOTTOM PLATE – Underside with the T-Nuts for $\frac{1}{4}$ " all thread rod used to clamp the collector ring between top and bottom plate. Screw holes for fastening trash can ring to bottom plate.



BOTTOM PLATE – Topside with the rabbet where the rubber weather strip will go to air seal the collector ring to the bottom plate. Holes are for the $\frac{1}{4}$ " all thread rod.



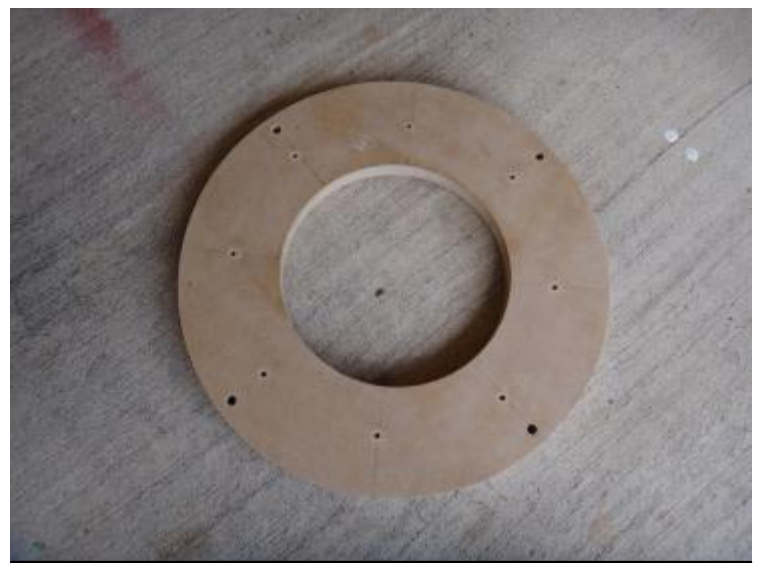
TOP PLATE – Topside with the center cut out for the filler ring. Holes are for the $\frac{1}{4}$ " all thread rod.



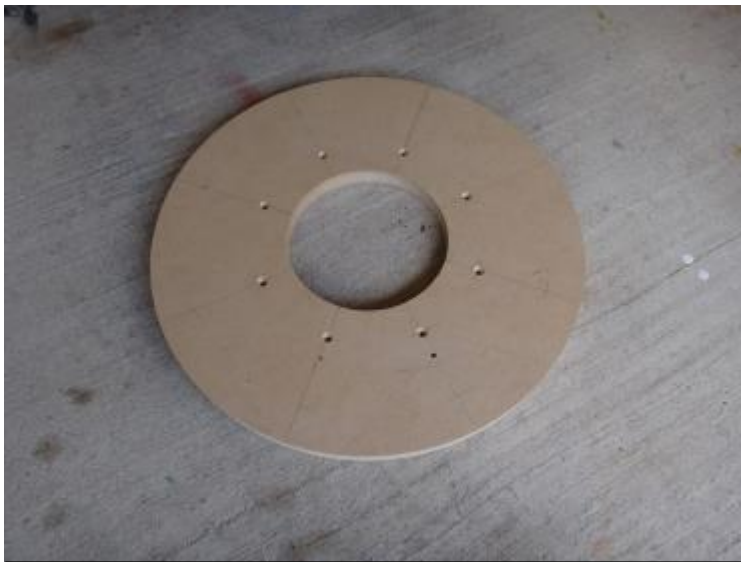
TOP PLATE – Underside with the dado where the rubber weather strip will go to air seal the collector ring to the top plate. Holes are for for $\frac{1}{4}$ " all thread rod.



FILLER RING – Underside, holes are for the $\frac{1}{4}$ " all thread rod used to fasten baffle to the filler ring. Outer diameter is slightly less than the inside diameter of the tapered cone inside collector ring.



FILLER RING – Topside with the screw holes for fastening to the top cover which will sit on top of the filler ring.



TOP COVER – Topside, screw holes are for fastening to the filler ring. Center is 6" for duct from separator to blower inlet.



TOP COVER – Underside, recessed holes are for the nuts on the 1/4" all thread rod used to fasten the baffle to the filler ring.



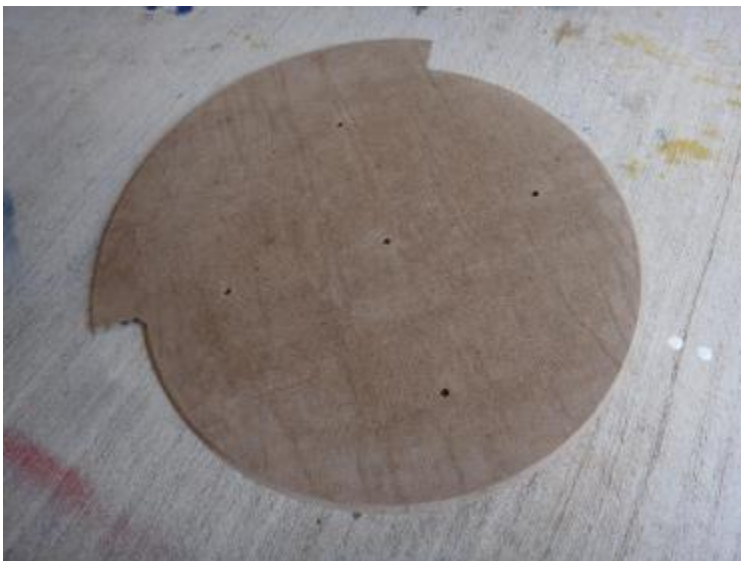
TRASH CAN RING – Trash can lid has been cut out to be flush with the bottom plate. Screw holes to fasten to bottom plate. Weather stripping will be added to provide air-tight seal to the trash can.



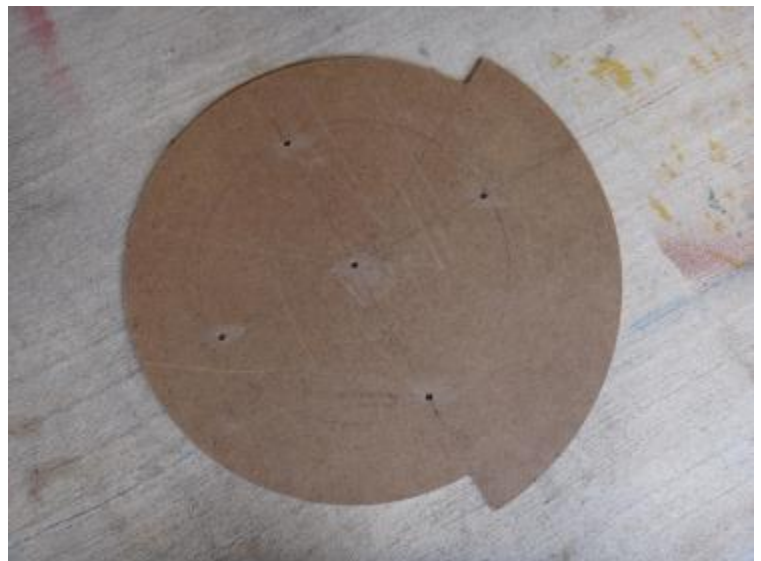
Locking tabs have been removed.

Weather stripping applied along here.

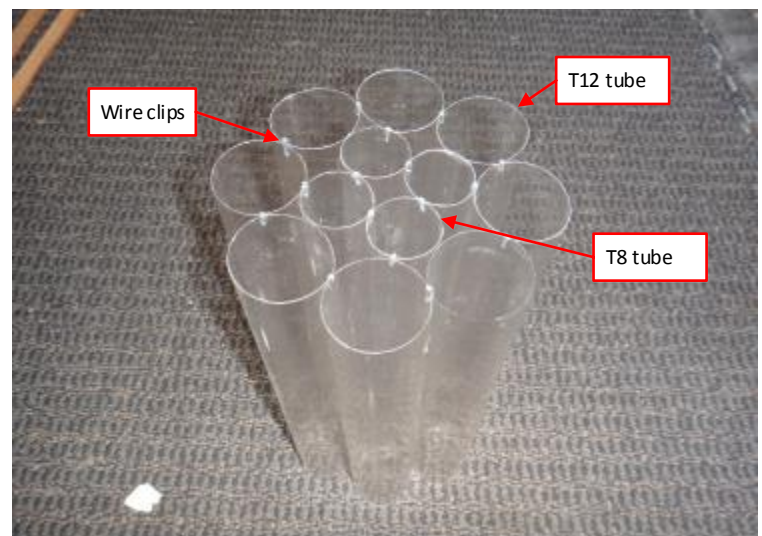
TRASH CAN RING – Locking tabs trimmed off handles so ring will not lock to trash can. Allows trash can to be freely lowered.



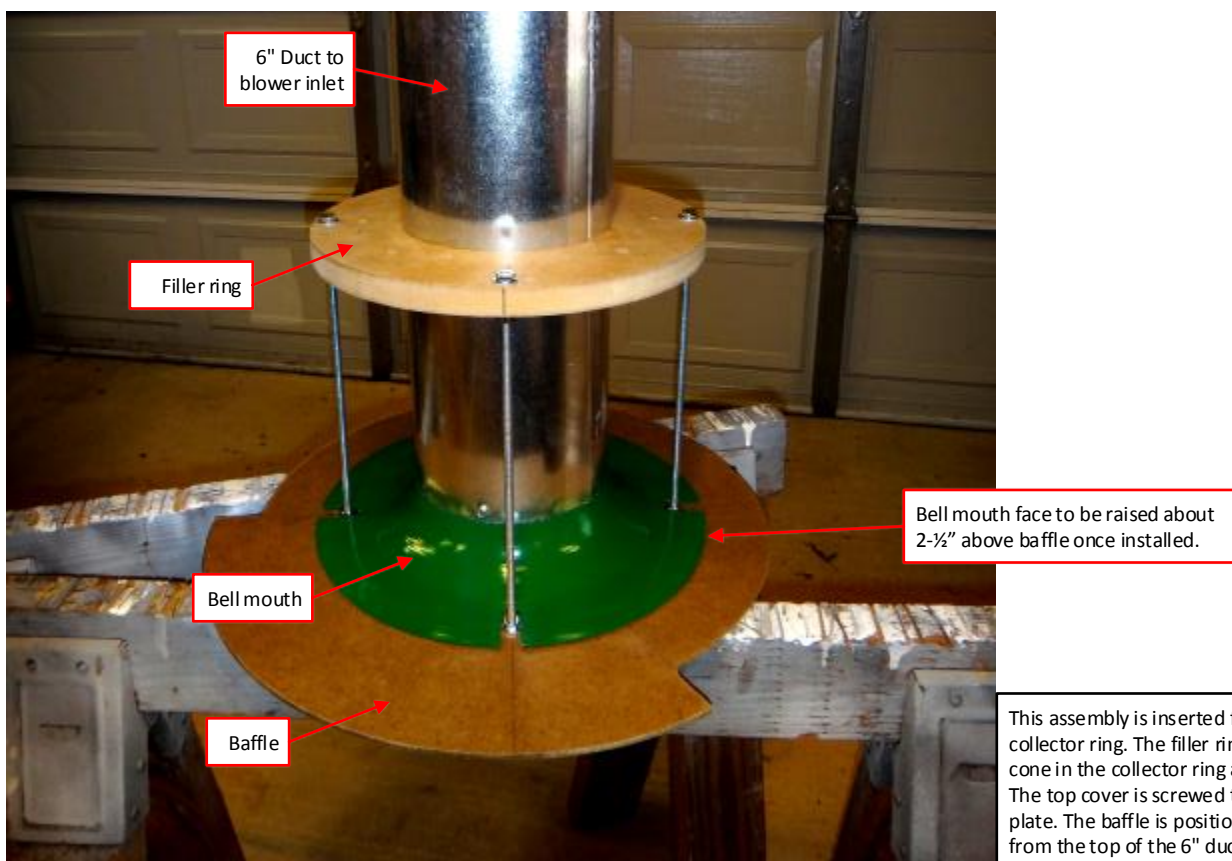
BAFFLE – Underside, cut from 3/16" hard board. Four outer holes are for 1/4" all thread rod used to suspend baffle from the filler ring. Inside edge has 45° chamfer to provide thin edge for improved separation.



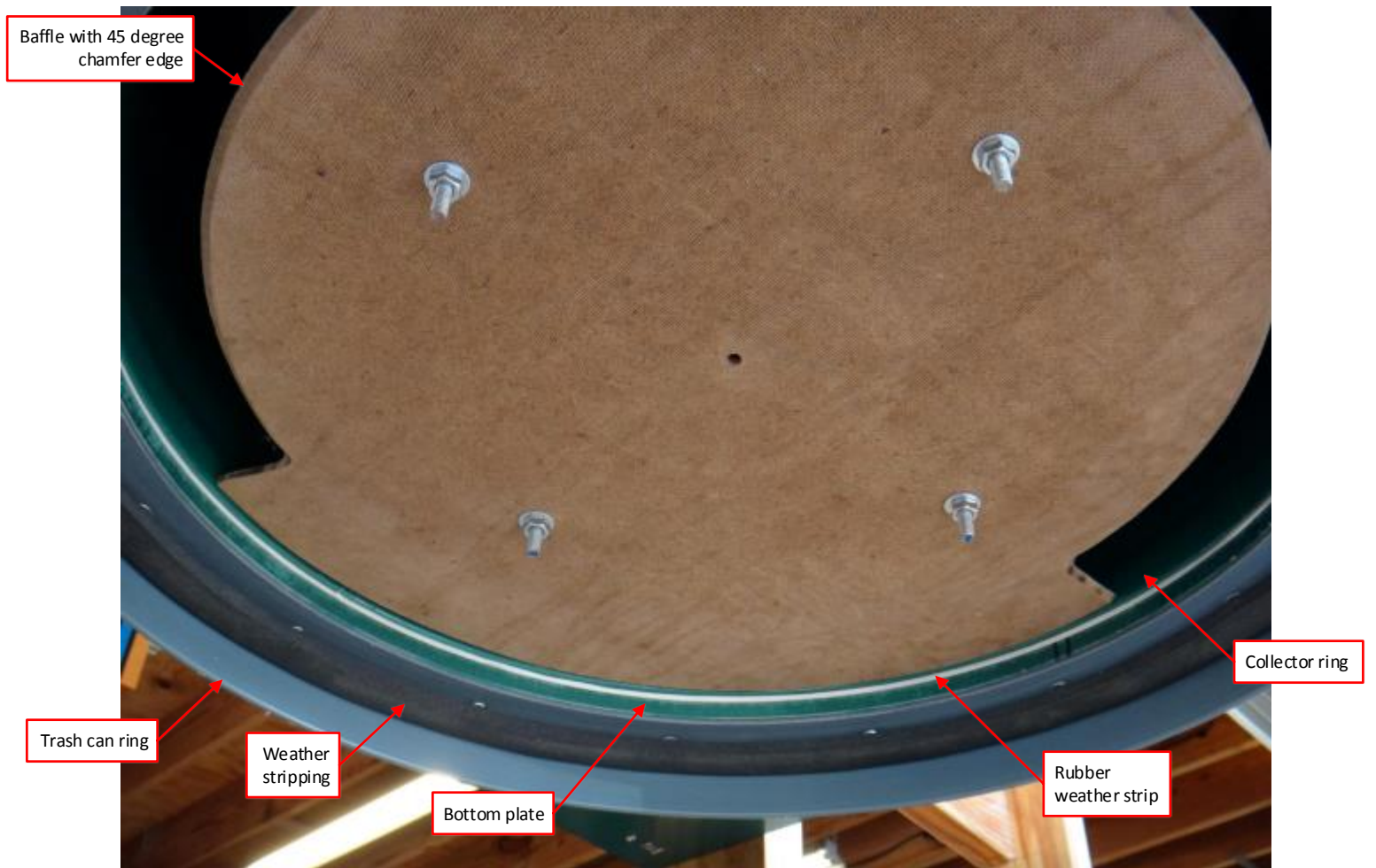
BAFFLE – Topside is the smooth side of the hard board which is inside the separator. (Center hole for router circle guide)



AIR STRAIGHTENER – Large tubes are T12 fluorescent bulb covers and smaller tubes are T8 fluorescent bulb covers. Length should be at least 1.5 times duct diameter. Used baling wire to make small loops that are crimped to hold tubes together. This fits snugly into the 6" duct and is held in place with duct screws.

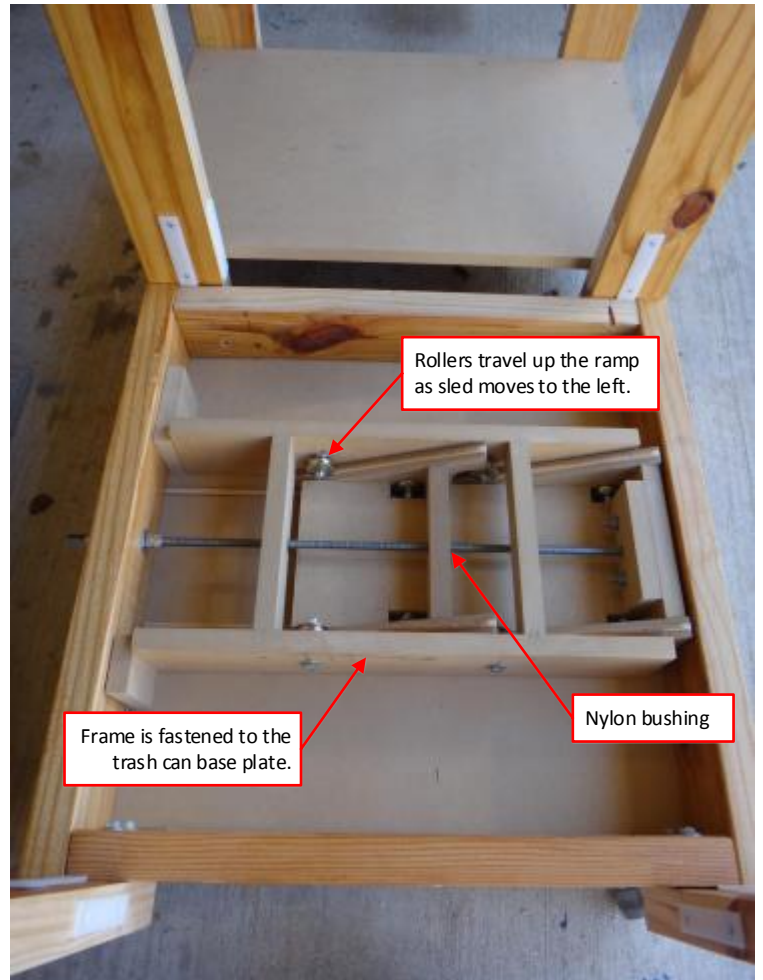


This assembly is inserted from the bottom of the collector ring. The filler ring fits through the tapered cone in the collector ring and fits flush in the top plate. The top cover is screwed to the filler ring and to the top plate. The baffle is positioned using measurements from the top of the 6" duct to the baffle





SLED – Partially exploded view showing sliding door rollers that will travel on $\frac{1}{4}$ " dowels. $\frac{1}{4}$ " dowels on ramps will be where rollers travel to raise base as sled moves forward. T-Nut captured in back between the two pieces of wood bolted together.



Rollers travel up the ramp as sled moves to the left.

Frame is fastened to the trash can base plate.

Nylon bushing



Frame attached to trash can base plate

LIFT ASSEMBLY – Sliding door rollers fit over $\frac{1}{4}$ " dowels which are used as tracks to guide the rollers. Rollers attached to the frame ride up the ramp as the sled moves to the left. Sled rides on rollers on $\frac{1}{4}$ " dowels which are fastened to the flat bottom. Nylon bushings at each end in the 2x4 and in the center align the threaded rod and keep the threads from digging into the wood and binding. The double nut on the inside left keep rod from moving to the left and right.



Frame attached to base plate

Sled



TRASH CAN BASE & FILTER – The base on the right is where the trash can sits. The half circle ring is used to position the trash can so it lines up with the separator. The filter is a Wynn Environmental (MERV15, pleated, open both ends) filter.





Manual remote DC start

120V circuit for router,
auto-starts DC

220V circuit for table saw,
auto-starts DC

