

Easy-to-Build Dust Separator Cabinet Plan

Plus Barrel Separator
instructions on
back page

 **ROCKLER**
WOODWORKING AND HARDWARE

Create with Confidence™



Build your own Dust Separator Cabinet to save wear and tear on your dust collection system and utilize valuable shop space.



Dust Separator cabinet houses primary and secondary dust collection drawers.

What you'll find inside:

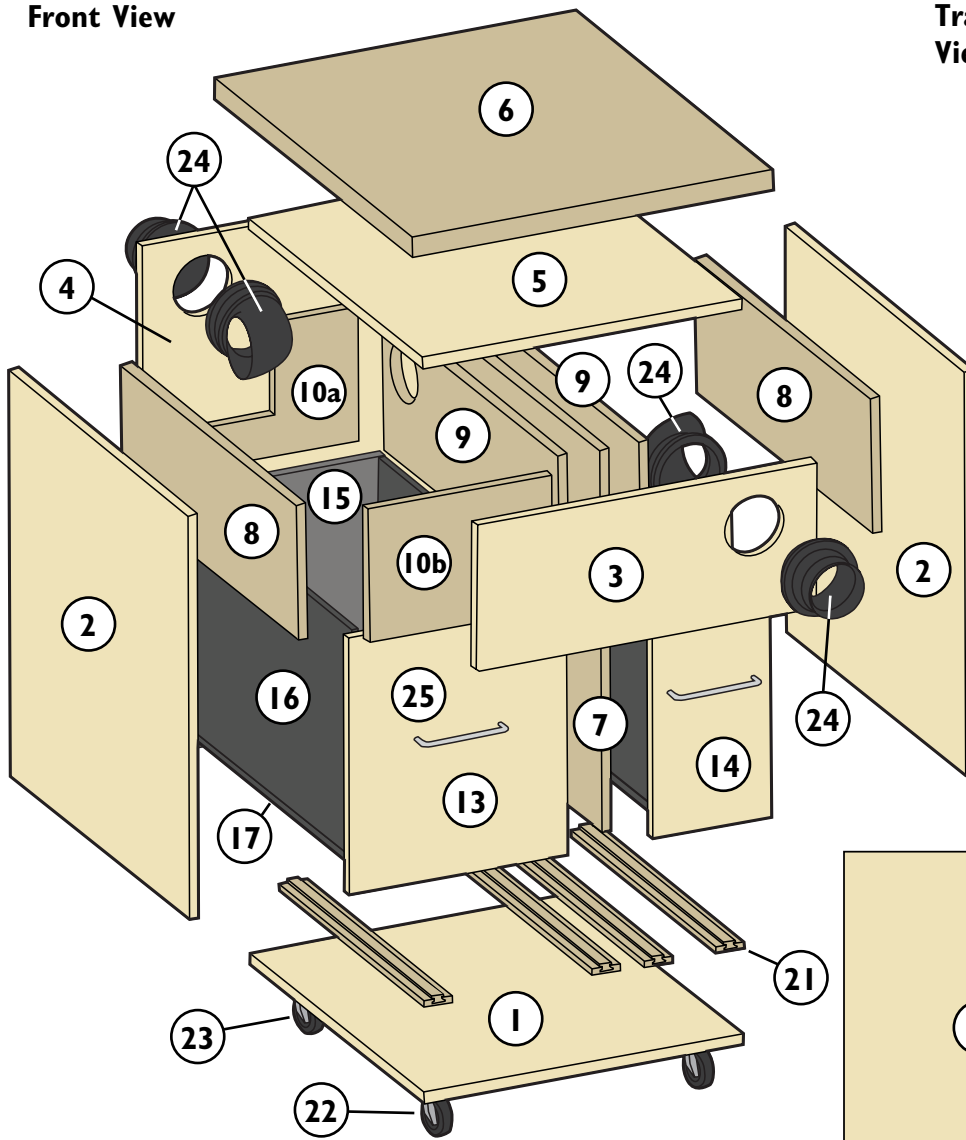
- Exploded view
- Complete materials list
- Step-by-step plans

 **ROCKLER**
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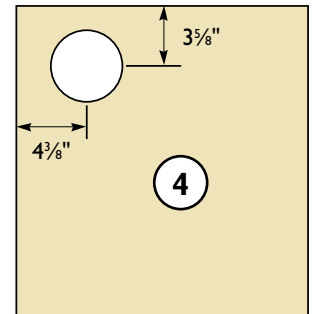
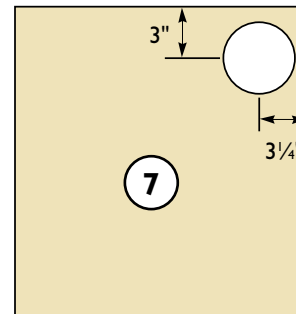
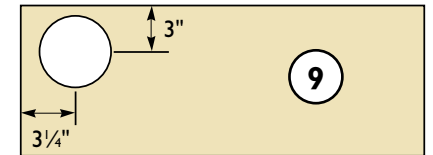
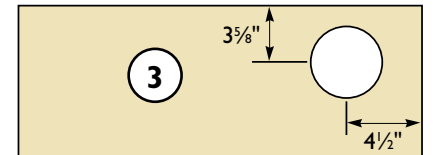
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Exploded Front View



Completed Transparent View



Bill of Materials - Dust Separator

Pieces	W x H x T	Qty.
Main Cabinet		
1 Bottom	23" x 26 1/2" x 3/4"	1
2 Sides	27 1/4" x 28 1/2" x 3/4"	2
3 Front	24 1/2" x 10 1/4" x 3/4"	1
4 Back	23" x 28 1/2" x 3/4"	1
5 Sub-Top	23" x 26 1/2" x 3/4"	1
6 Top	26" x 30" x 3/4"	1
7 Center Divider	26 1/2" x 27" x 3/4"	1
8 Side Build-Outs	26 1/2" x 9 1/2" x 3/4"	2
9 Center Build-Outs	26 1/2" x 9 1/2" x 3/4"	2
10a Left End Build-Out	13 1/4" x 9 1/2" x 3/4"	1
10b Left End Build-Out	13 1/4" x 9 1/2" x 3/4"	1
11 Right End Build-Out (Not shown)	6" x 3" x 3/4"	1
12 Right End Build-Out (Not shown)	6" x 9 1/2" x 3/4"	1
13 Large Drawer Front	15 3/4" x 18 1/8" x 3/4"	1
14 Small Drawer Front	8 3/16" x 18 1/8" x 3/4"	1

Pieces	W x H	Qty.
Main Dust Collection Drawer		
15 Front and Back	14 1/2" x 16 3/16" x 1/2"	2
16 Sides	16 3/16" x 25 3/8" x 1/2"	2
17 Bottom	14 1/2" x 26 3/8" x 1/2"	1
Secondary Dust Collection Drawer		
18 Front and Back (Not shown)	7 1/4" x 16 3/16" x 1/2"	2
19 Sides (Not shown)	16 3/16" x 25 3/8" x 1/2"	2
20 Bottom (Not shown)	7 1/4" x 26 3/8" x 1/2"	1
Other Components		
21 Wood Drawer Slides (24877)		4
22 3" Swivel Casters (38865)		2
23 3" Non-swivel Casters (35340)		2
24 Separator Components (34367)		2
25 Handles		2

Carcass Assembly

1. Cut all pieces according to the cut list. Use butt joint construction for this project (glue and nails or screws, or your preferred butt joint method).
2. Create the center divider assembly by nailing Center Build-Outs (pieces 9) to Center Divider (piece 7) so that piece 7 is in the middle. Make sure all pieces are flush on the top. Glue and nail. **Fig. 1.**
3. Cut out a 4½" diameter hole or use a 4½" hole saw to drill through all three pieces according to diagram. For convenience, also cut holes in Front (piece 3) and Back (piece 4) at this time. See Page 1 illustrations for hole placement information.
4. Begin carcass assembly by attaching the Bottom (piece 1), Sides (pieces 2) and Back (piece 4). Install center divider assembly 7½" in from right edge. Attach Front (piece 3). **Fig. 2.** Attach four Casters (pieces 22) to the bottom.
5. Attach Side Build-Outs (pieces 8) to Sides (pieces 2). Attach Left End Build-Out (piece 10a, cut to fit around port hole) and Right End Build-Out (piece 12) to Back (piece 4). Attach Left End Build-Out (piece 10b) and Short Right End Build-Out (piece 11) to Front (piece 3). All Build-Out pieces should be installed flush with the top of the center divider assembly (¾" down from the top edge of the Sides, Front and Back). Install Dust Separator Components (**Fig. 3**), aiming toward the outside walls.
6. Drop Sub-Top (piece 5) in place and secure.
Note: It may be necessary to cut Sub-Top to fit carcass assembly.
7. Secure Top (piece 6) to Sub-Top (piece 5).

Fig. 1

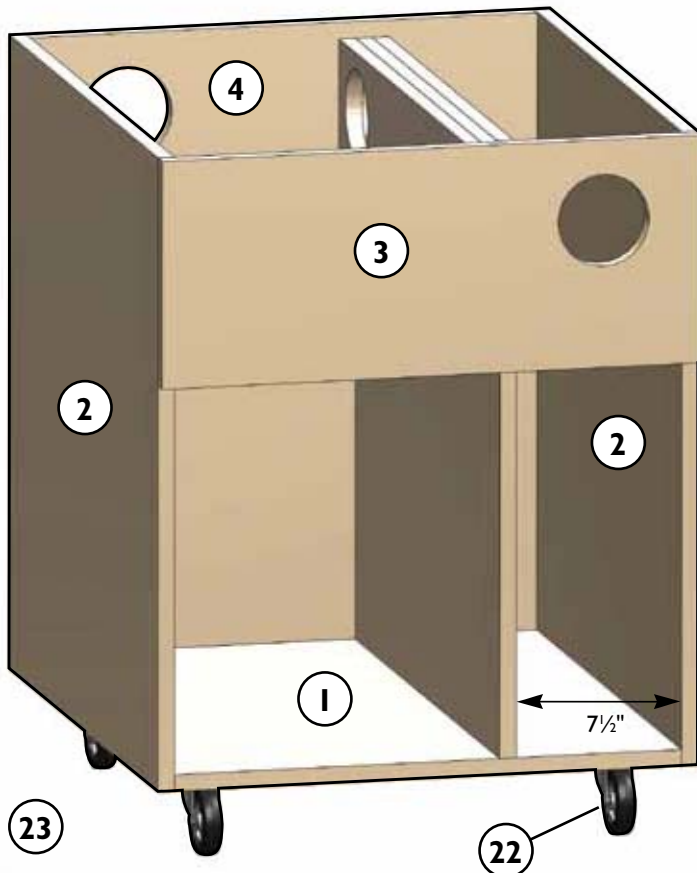
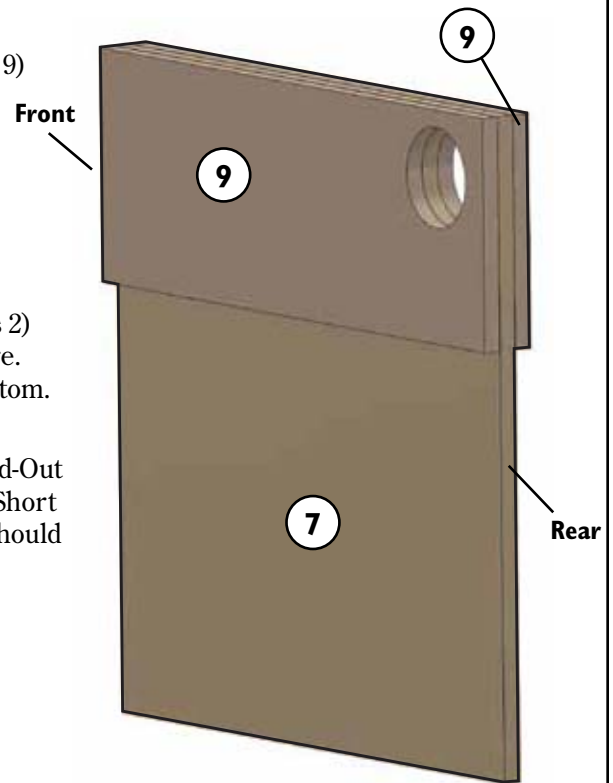


Fig. 2

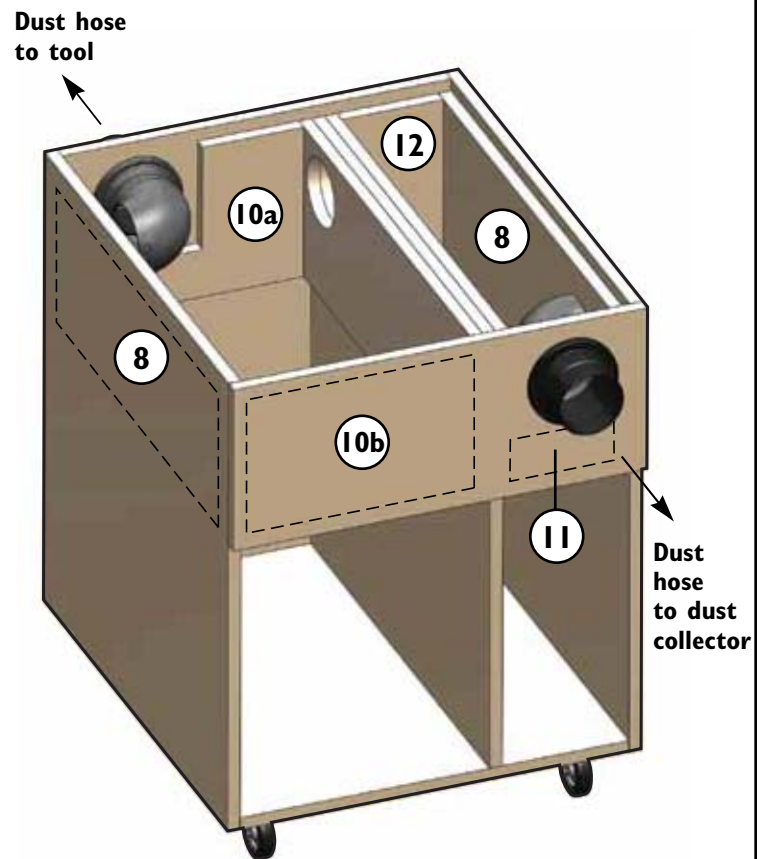


Fig. 3

Drawer Assembly

Note: Drawers should be gapped 1/8" from the top underside lip, sides and back of the carcass interior. **Fig. 4.**

1. Assemble Main Dust Collection Drawer Front and Back (pieces 15), Sides (pieces 16) and Bottom (piece 17).
2. Assemble Secondary Drawer Front and Back (pieces 18), Sides (pieces 19) and Bottom (piece 20). **Note:** Minor adjustments may be necessary for drawers to fit properly. Measure final openings and adjust size to maintain 1/8" gaps.
3. Install dovetailed drawer runners to the bottom of each drawer, making sure they are flush with the front of the drawer. Then slide on the drawer tracks and place each drawer in the position it will be mounted. Drawer tracks should be flush with the front of the cabinet. Mark the location of the drawer tracks. Pull each drawer out and slide the drawer tracks off. Screw the drawer tracks to Bottom (piece 1) at the locations you marked. **Fig. 4.** Wax the tracks (10140, wax not included).
4. Attach Main Dust Collection Drawer Front (piece 13) to Main Dust Collection Drawer assembly and Secondary Dust Collection Drawer Front (piece 14) to Secondary Dust Collection Drawer assembly.
5. Attach one Drawer Handle (pieces 24) to each drawer. Slide drawers into the carcass assembly in their tracks.

Barrel Separator Instructions

Below are the simple instructions on how to turn any 30 gallon (or larger) drum into a dust separator.

1. In the top of your barrel lid, cut out 2 - 4½" diameter holes directly across from each other spaced 2" from the outside edge.
2. If you do not have a lid for your drum, cut out a round wood blank (1/2" or 3/4" thick) slightly larger than the diameter of the drum.
3. Position ports in opposite directions as shown in **Fig. 5.**
4. Performance of the ports can be adjusted (depending on the size of the drum) by aiming the ports slightly towards the outside walls of the drum.

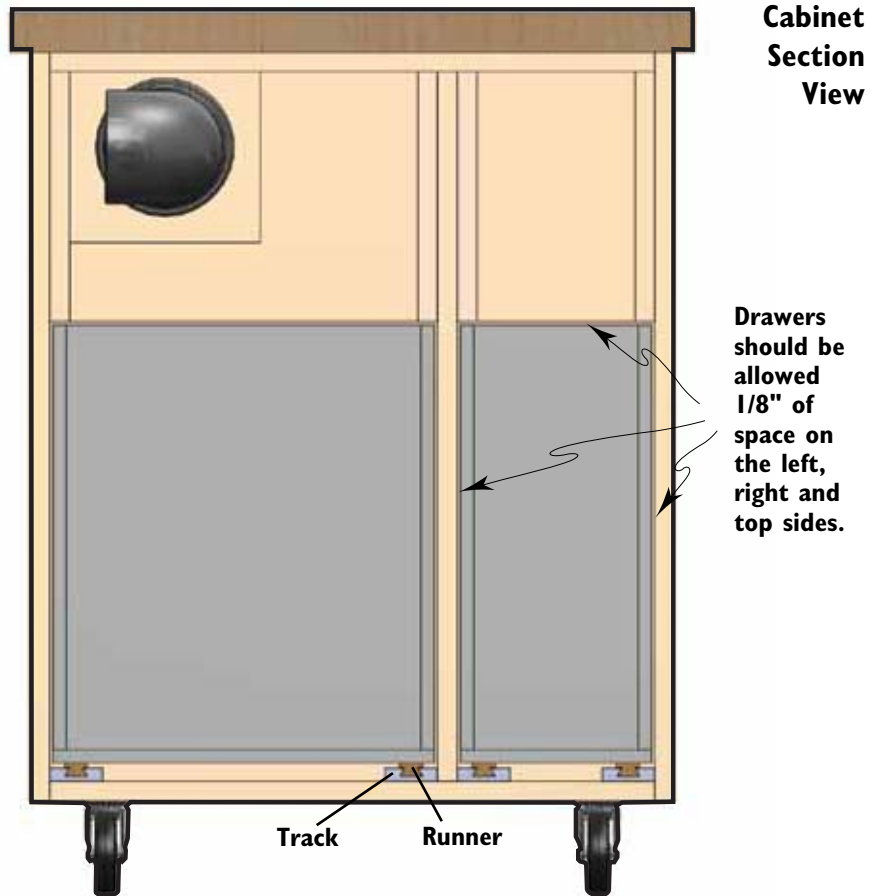


Fig. 4

Barrel Top View

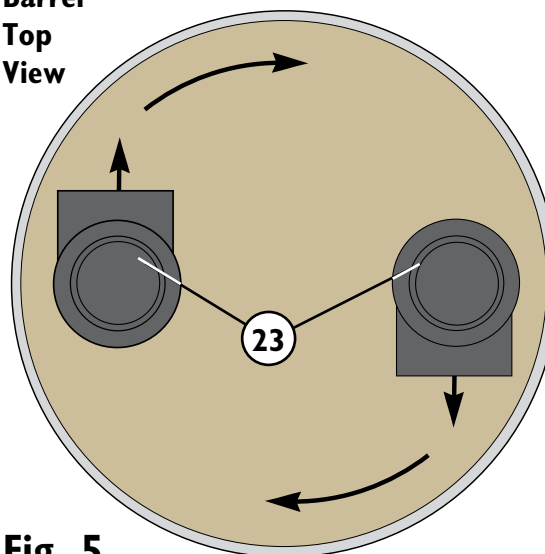


Fig. 5



Point infeed and outfeed components opposite one another for best results.

Attention Rockler Plan User

Before starting, please read the plan completely. Check Rockler.com for updates that may not be included on this copy. If you have further questions, please contact our Technical Support Department, 1-800-260-9663 or support@rockler.com

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