

OWNER'S MANUAL

#DC2V3

#DC2V3CF

1-1/2 HP, 1500 CFM DUST COLLECTOR

VERSION 1 -w/ 6" INLET PORT



Model: #DC2V3CF



Model #DC2V3



9900 Global Rd.
Philadelphia, PA 19115

Thank you for purchasing one of PSI’s growing family of woodworking products. Our #DC2V3 dust collector is engineered and manufactured to the highest standards of quality.

Read this manual carefully before assembly, testing and operation.

⚠WARNING: Do not operate this unit until the PVC hose is installed onto the dust inlet port.

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Safety Instructions for Model #DC2V3 Dust Collector

1. Do not vacuum or use this system near flammable or combustible liquids, gases, gasoline or other fuels, cleaners, oil-based paints, natural gas or explosive dust like coal dust, magnesium, grain dust, or gun powder.
2. Do not vacuum anything that is burning or smoking such as cigarettes, cigars, pipes or hot ashes.
3. Do not vacuum toxic materials or use near hazardous materials.
4. Do not use outdoors or on wet surfaces. Do not operate with a full waste container.
5. Do not use without the dust filter bag or canister attached.
6. Turn off all controls before unplugging. Do not unplug by pulling on the cord, use the plug.
7. Do not use with damaged cord, plug or other parts. Install only to a properly grounded outlet
8. Do not wear loose clothing in the area of any inlets due to high suction.
9. If your ducting has only plastic hose or pipe, ground the hose or pipe by wrapping bare copper wire around the exterior surface and grounding the wire at either end.
10. Keep hands free of the spinning impeller.
11. The DC2V3 is only warranted and guaranteed for the collection of wood dust even though it may be quite suitable for other applications.

Warranty

This product is warranted against defects in material and workmanship for a period of two years for all components. This warranty applies to the original purchaser of the product and is limited to the repair or replacement of the product or its parts at the discretion of PSI Woodworking Products. Excluded are parts which have been misused, abused, altered, or consumed by normal operation of the machine. Also excluded are direct or consequential damages to persons, properties, or materials. Your invoice serves as proof of purchase and must be referenced to authorize warranty repairs. Call your dealer for proper authorization.

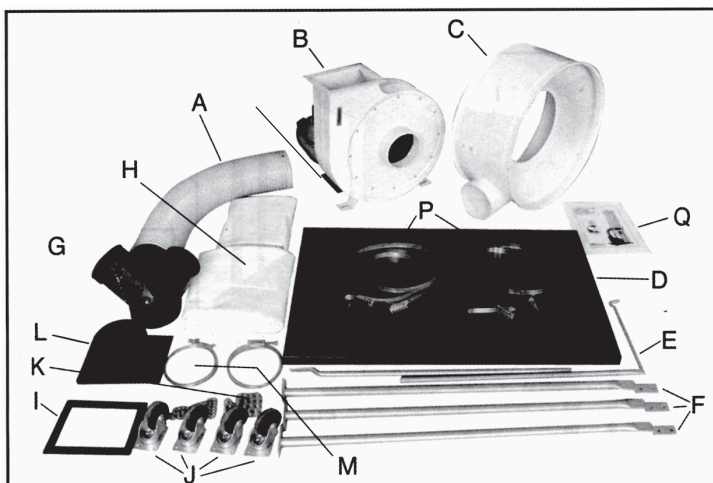
Specifications

| | #DC2V3 | #DC2V3CF |
|------------------------------|-----------|-----------|
| Max CFM Free Air | 1250 | 1500 |
| VAC, Max Amps (single phase) | 110V, 11A | 110V, 11A |
| Horse Power | 1 1/2 HP | 1 1/2 HP |
| Max Static Pressure | 12" | 12" |
| Impeller Dia. | 11" steel | 11" steel |
| Sound | 67 db | 67 db |
| Weight | 95 lbs. | 125 lbs. |

Package Contents

Unpack carton and check contents with list below.

- A. Hose
- B. Motor Blower Assembly B1. Motor Support Bracket
- C. Collector Rim and Inlet
- D. Base Plate
- E. Upper Bag Support *
- F. Rim Supports
- G. Inlet Wye
- H. 1 Micron Collector Bags *
- I. Packing
- J. 4 Canisters Wheels
- K. Parts Bag with Nuts, Screws, Washers, Spring Washers, and Wrench
- L. Outlet Adapter
- M. 2 Hose Clamps
- N. #DCANISTER2 Filter Canister **
- O. 7 mil Trash Bags -Pkg. of 10 **
- P. Band Clamps
- Q. Instruction Manual



* Not included with #DC2V3CF

** Included with #DC2V3CF (not shown)

Assembly

Lay base plate (D) upside down Attach the 4 casters (J) to the base plate (D). Hardware needed – the 16 Phillips head bolt screws and 16 of the small washers and 16 of the small nuts (M6).

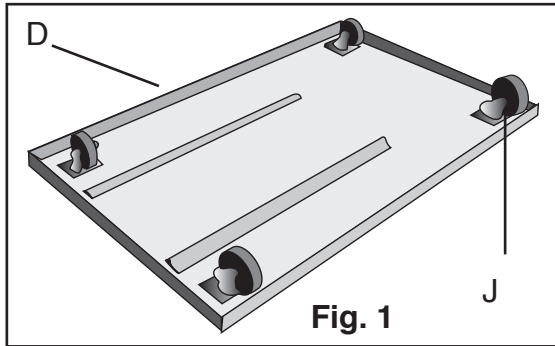


Fig. 1

Fig.1: Flip the base plate right side up. Now attach the motor base to the base plate (D). Hardware needed – Use 4 of the short hex bolts (M8) and 4 of the large washers.

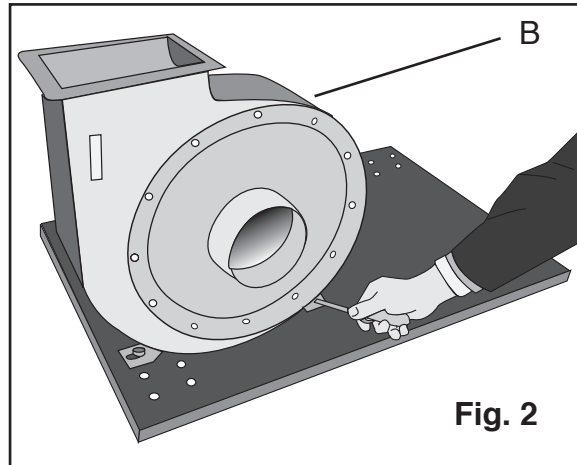


Fig. 2

Fig. 2: Mount motor (B) to motor support bracket (B1) using (4) long hex bolts and (4) large 08mm washers and (4) M8 large nuts. Then place motor onto motor base, as shown below. Hardware needed – 6 short hex bolts (M8) to hold the motor and motor blower housing to the base plate. 6 washers total needed.

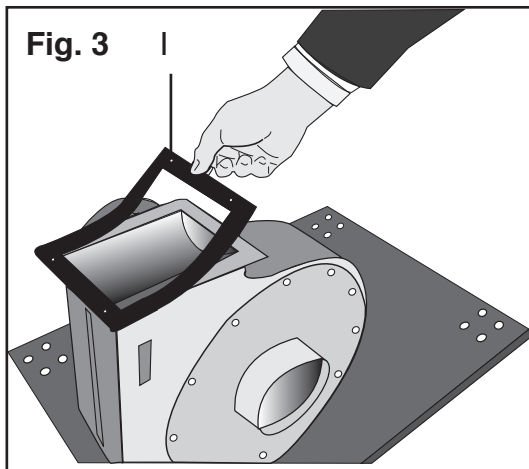


Fig. 3

Fig. 3 Place rubber seal (I) on open top of motor blower (B), then place on top of seal outlet adapter (L). Hardware needed – 6 thin hex bolts and 6 small washers and 6 small nuts.

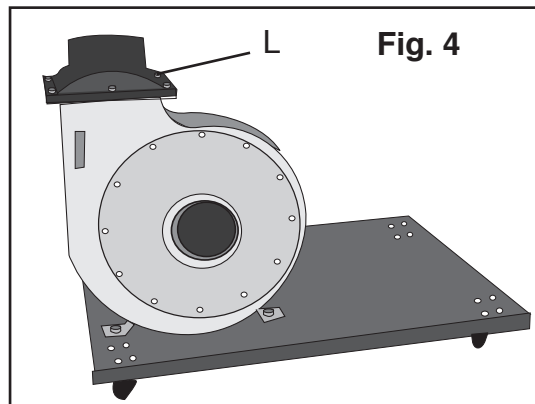


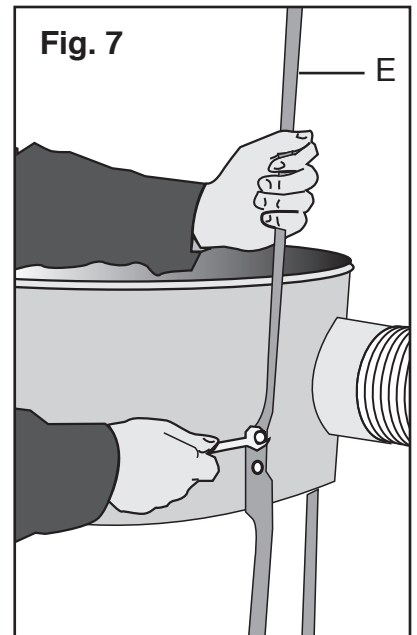
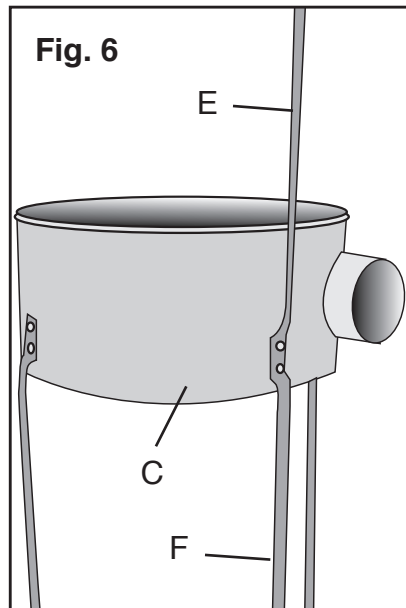
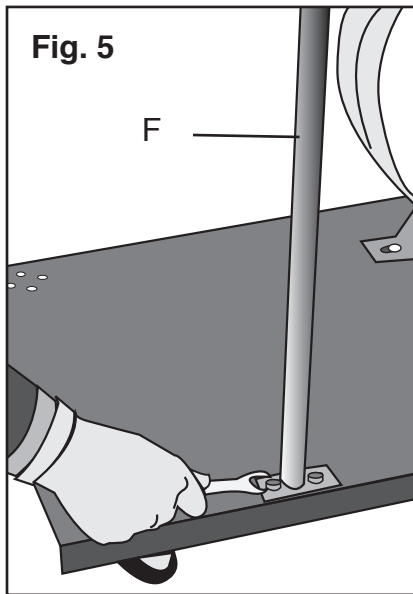
Fig. 4

Fig. 4 After completion of Fig. 1 through Fig. 3 the unit should look like Figure 4.

Fig. 5: Now use the three collector rim support rods (F) vertically stand straight on base plate (D) matching holes on the base plate. Notice in Fig. 5 that rectangular side must be flush with the base plate. Hardware needed – 6 of the short hex bolts (M8) and 6 of the large washers.

Fig. 6: Now you are ready to mount collector ring (C). Match up holes in the collector ring (C) with the holes on the collector rim support rods (F). Hardware needed – 6 of the short hex bolts (M8) and 6 of the large washers.

Fig. 7: Notice in Fig. 7 that you must connect the collector rim support and the mid bag support rod together with 2 out of the 6 bolts and washers used in Fig. 6. Both mid and upper bag support rods (E) on package content photo on page 3. The upper bag support rod rests on top of mid support bag.



Now attach one end of the hose (A) to the outlet (L) and the other end to the side hole of the collector rim and secure with the two hose clamps (M) as shown in Fig. 8, Fig. 9, and Fig. 10.

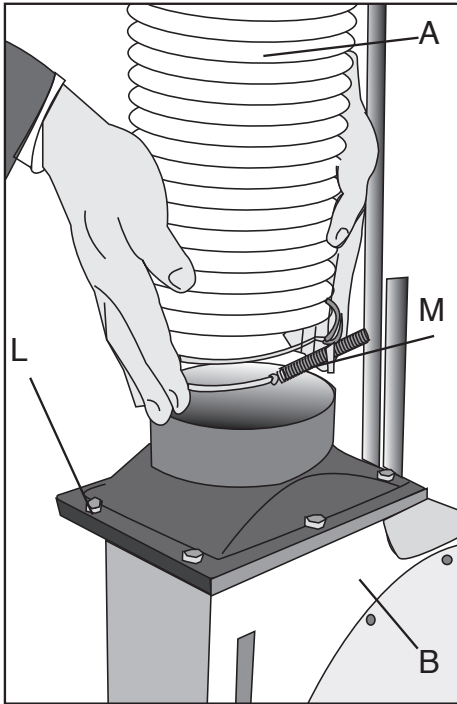


Fig. 8

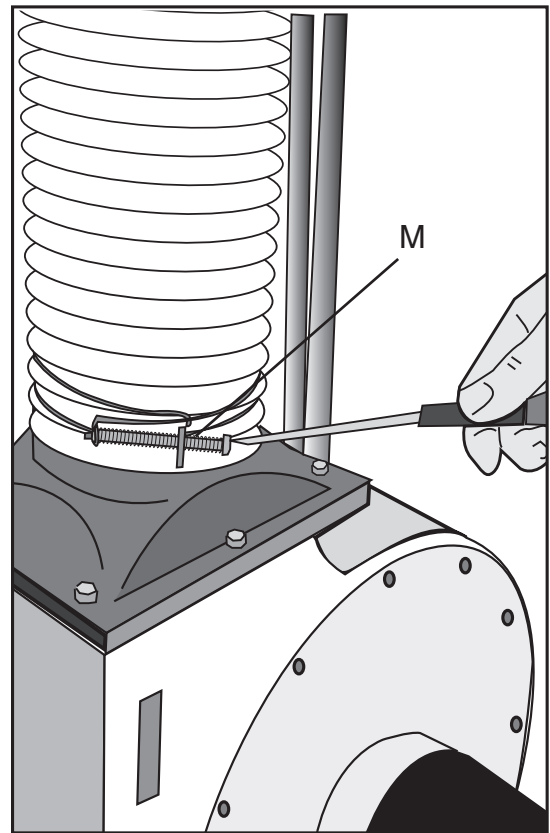


Fig. 9



Fig. 10

Your dust collector should now look like the one in Fig. 10. (Model **#DC2V3** -1 micron bag model) Place the filter bags (H) onto the collector and secure with the clamp as shown in Fig. 11.

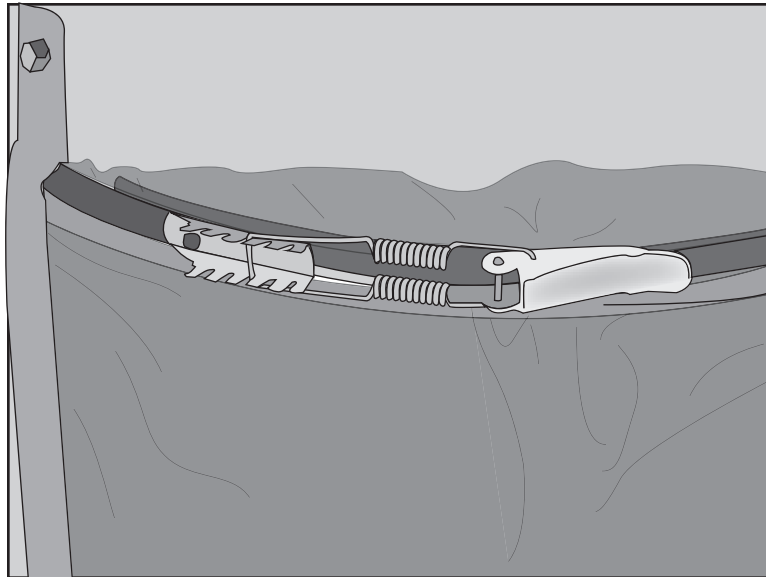
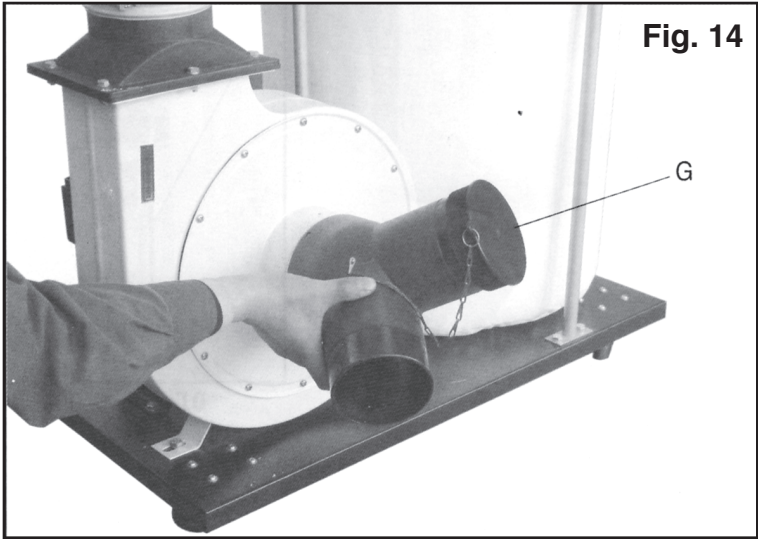
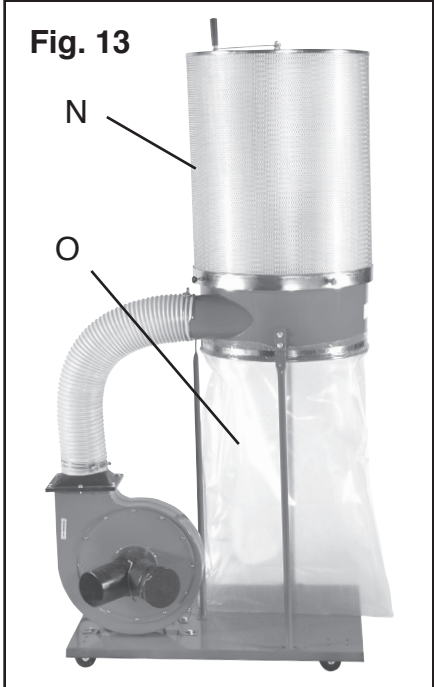


Fig. 11

#DC2V3

After the bags are secure, the upper bag should be hung from the upper bag support as shown in Fig. 12. The inlet wye (G) can now be placed on the intake hole of the fan/motor assembly as shown in Fig. 14. The dust collector is now ready to be placed into service. Before connecting to a power source, be sure the source is properly grounded (see pg. 9). Also, check your voltage and amperage.

#DC2V3CF. Place canister on top of rim (see specific instructions that are included with the canister) then attach collection trash bag as shown in Fig.13.



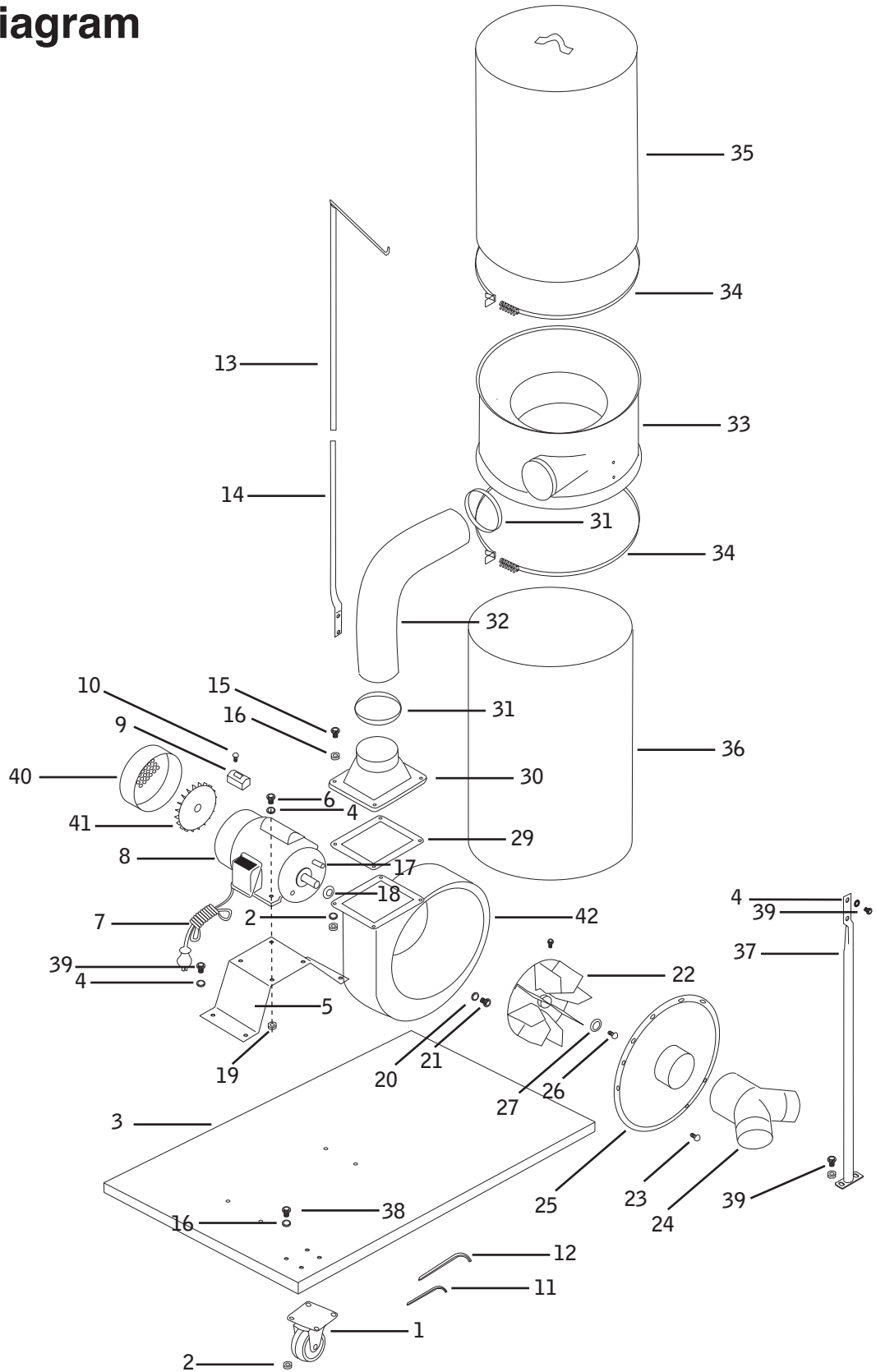
Electrical Grounding

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This dust collector is equipped with an electric cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided, if it will not fit the outlet have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment grounding conductor can result in a risk of electrical shock. The conductor wire with insulation has an outer surface that is green. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment to a live terminal.
4. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the dust collector's plug.
5. Repair or replace damaged or worn cords immediately.
6. Attach your grounding wire either to one of your tools or to base of collector.

Parts List

| Part # | Part | Quantity | Size |
|---------------|----------------------------|-----------------|-------------|
| 1 | Caster | 4 | 2.5" |
| 2 | Nut (small) | 22 | M6 |
| 3 | Base plate | 1 | |
| 4 | Washer | 26 | Large 8MM |
| 5 | Motor Support Bracket | 1 | |
| 6 | Long Hex Bolts | 4 | M8X15 |
| 7 | Power cord | 1 | |
| 8 | Motor | 1 | |
| 9 | Switch | 1 | |
| 10 | Screw | 2 | M6 |
| 11 | Allen wrench | 1 | 4MM |
| 12 | Allen wrench | 1 | 5MM |
| 13 | Upper bag support | 1 | |
| 14 | Mid Collector support | 1 | |
| 15 | Thin Hex Bolts | 6 | M6 |
| 16 | Washer | 28 | Small 6MM |
| 17 | Key | 1 | M8X10 |
| 18 | Packing | 1 | |
| 19 | Nut (large) | 4 | Large M8 |
| 20 | Washer | 4 | |
| 21 | Screw hex | 4 | |
| 22 | Impeller | 1 | |
| 23 | Screw hex | 12 | |
| 24 | Inlet wye | 1 | |
| 25 | 6" inlet cover | 1 | |
| 26 | Screw hex | 1 | M8 |
| 27 | Washer | 1 | M8X15 |
| 28 | Screw hex | 1 | |
| 29 | Packing | 1 | |
| 30 | Outlet adapter | 1 | |
| 31 | Hose clamp | 2 | 6" |
| 32 | Hose | 1 | 6" x 36" |
| 33 | Collector | 1 | |
| 34 | Band clamp (bag) | 2 | 19" |
| 35 | Filter bag | 1 | |
| 36 | Collector bag | 1 | 19" x 46" |
| 37 | Lower Collector support | 3 | 19" x 32" |
| 38 | Phillips Screw Bolts | 16 | |
| 39 | Short Hex Bolts | 18 | |
| 40 | Motor Housing (rear cover) | 1 | |
| 41 | Plastic Cooling Fan | 1 | |
| 42 | Motor Blower Housing | 1 | |

Parts Diagram



Cartridge Filter DCANISTER2 / DCANISTER4

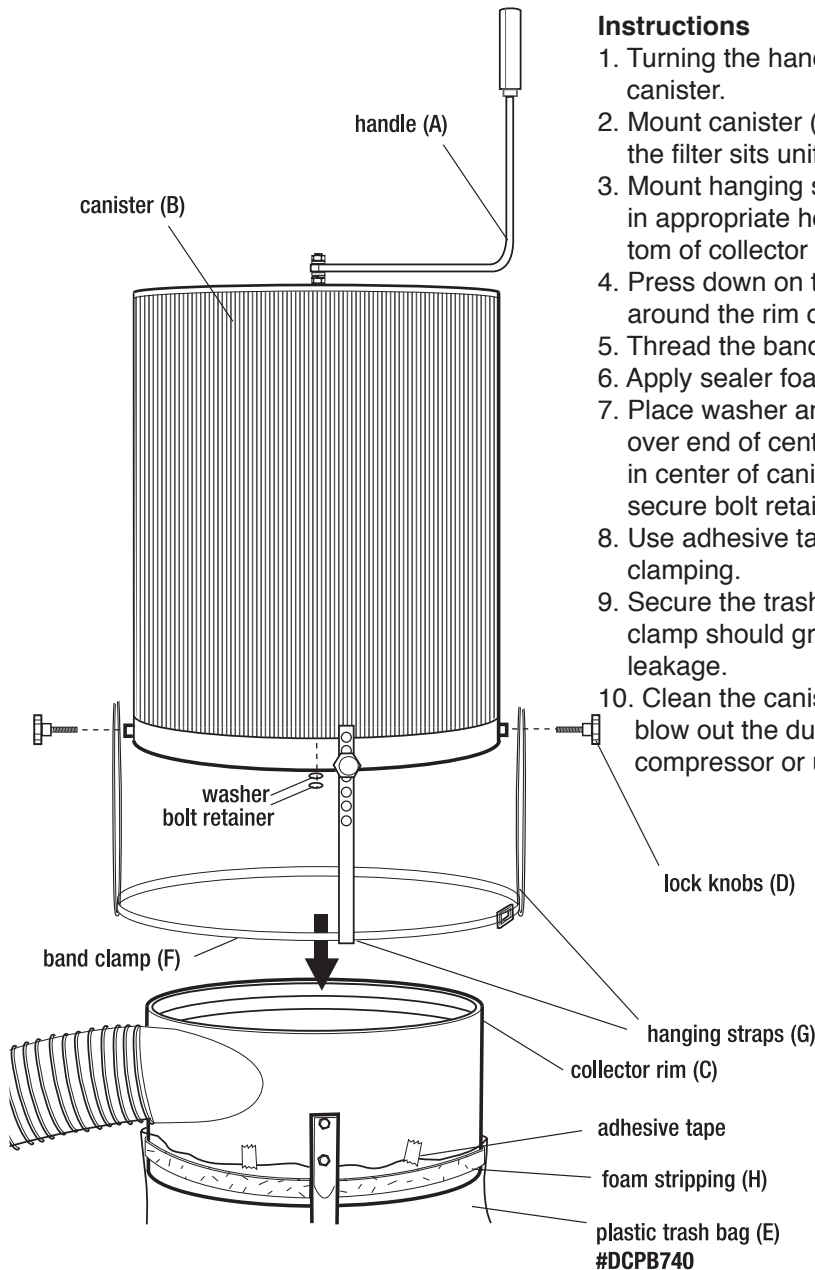
DCANISTER2

- 20 - 1/4 dia. x 25" high
- Fits collector rims from 19" - 20"
- 1-micron filtration

DCANISTER4

- 14-3/4" dia. x 21-1/4" high
- Fits collector rims from 13-1/2" - 14-1/2"
- 1-micron filtration

Fig. A - Assembly



Instructions

1. Turning the handle (A) should rotate the wiper inside the canister.
2. Mount canister (B) on top of collector rim (C), making sure the filter sits uniformly and securely around the edge.
3. Mount hanging straps (G) on lock knobs as shown. Position in appropriate hole so that band clamp (F) connects at the bottom of collector rim (C).
4. Press down on the canister as you tighten the lock knobs (D) around the rim of the collector.
5. Thread the band clamp (F) through the hanging straps (G).
6. Apply sealer foam (H) around the rim as shown.
7. Place washer and nut bolt retainer (both included separately) over end of center rod (flapper rod) once through the hole in center of canister bracket and lightly tap with hammer to secure bolt retainer into place.
8. Use adhesive tape to position the trash bag (E) prior to clamping.
9. Secure the trash bag with the large band clamp (F). The clamp should grip the bag at the foam to seal and prevent air leakage.
10. Clean the canister daily by rotating the wiper. You can also blow out the dust at low air pressure (30 psi) using an air compressor or use the blower end of a shop vacuum.