

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® Dust Collector

Description

Dayton Dust Collector is designed to remove and collect wood dust and wood chips from woodworking machinery. Lower cloth bag collects dust and chips while upper cloth bag filters fine dust. Lower bag design makes disposal of dust and chips easy. Collector features 4" intake hose and casters on base for mobility.

⚠ DANGER Do not use this dust collector in a flammable or explosive atmosphere. Do not use to collect aluminum or magnesium dust, nor any other chemically reactive dusts. Consult National Fire Protection Association (NFPA) standards before setting up a dust collection system, especially NFPA 664.

Unpacking

Check for shipping damage. If damage has occurred, a claim must be filed with the carrier immediately. Check for completeness. Immediately report any missing parts to dealer. Remove all components of dust collector from shipping carton.

Refer to Figure 5, page 6.

Locate and account for the following components:

- Base (Ref. No. 1)
- 4 x 60" Hose (Ref. No.11)
- 4 to 2½" Hose adapter (Ref. No. 12)
- Hanger (Ref. No. 44)
- Connector (Ref. No. 14)
- Filter and collector bags (Ref. Nos. 15 and 43)
- Two each supports (Ref. No. 8)
- Two each wheels (Ref. No. 5)
- Two each casters (Ref. No. 2)
- Two each hose clamps (Ref. No. 10)
- Two each bag clamps (Ref. No. 16)
- Dust collector housing assembly
- Handle assembly
- Hardware bag

Specifications

Motor.....	1 HP, 3450 RPM
Voltage	115/230 Volt
Low voltage amps	11.0
Air flow rate.....	660 CFM
Maximum static pressure	8.5" of water
Sound level	55 - 65 dBA
Inlet	4"
Collector bag capacity	36.9 gal. (4.93 cu. ft.)
Weight	67 lbs.
Overall size	31.9 x 20 x 65.5"

General Safety Information

⚠ WARNING For your own safety, read all of the instructions and precautions before operating tool.

⚠ CAUTION Always follow proper operating procedures as defined in this manual — even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.

BE PREPARED FOR JOB

1. Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
2. Wear protective hair covering to contain long hair.
3. Wear safety shoes with non-slip soles.
4. Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are **NOT** safety glasses.

5. Wear face mask or dust mask if cutting operation is dusty.
6. Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

1. Keep work area clean. Cluttered work areas and work benches invite accidents.
2. Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
3. Work area should be properly lighted.
4. Proper electrical outlet should be available for tool. Three-prong plug should be plugged directly into properly grounded, three-prong receptacle.
5. Extension cords should have a grounding prong and the three wires of the extension cord should be the correct gauge.
6. Keep visitors at a safe distance from work area.
7. Keep children out of workplace. Make workshop childproof. Use padlocks, master switches and remove switch keys to prevent any unintentional use of power tools.

TOOL SHOULD BE MAINTAINED

1. Always unplug tool prior to inspection.
2. Consult manual for specific maintaining and adjusting procedures.
3. Keep tool lubricated and clean for safest operation.
4. Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.

ENGLISH

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Dayton® Dust Collector

General Safety Information (Continued)

5. Keep all parts in working order.
Check to determine that the guard or other parts will operate properly and perform their intended function.
6. Check for damaged parts. Check for misalignment of moving parts, binding, breakage, mounting or any other condition that may affect a tool's operation.
7. A guard or other damaged part should be properly repaired or replaced. Do not perform makeshift repairs. (Use the parts list provided to order repair parts.)

KNOW HOW TO USE TOOL

1. Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
2. Disconnect tool when removing filter or collector bags.
3. Avoid accidental start-up. Make sure that tool switch is in OFF position before plugging in.
4. Do not force tool. It will work most efficiently at the rate for which it was designed.
5. Leave hands free to operate machine. Protect hands from possible injury.
6. Never leave a tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
7. Do not overreach. Keep proper footing and balance.
8. Never stand on tool. Serious injury could occur if tool is tipped over.
9. Keep hands away from moving parts.

10. Know your tool. Learn the tool's operation, application and specific limitations.

⚠ DANGER *The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses complying with United States ANSI Z87.1 (shown on package) before commencing power tool operation. Safety glasses are available through your Grainger catalog.*

Assembly

Refer to Figures 1, 2 and 3.

MOUNT CASTERS

Refer to Figure 1.

Castors are mounted onto the left and right corners of the base over the welded brackets. To mount casters:

1. Lay the base upside down on a flat surface.
2. Mount one caster assembly onto the welded bracket using four washer head screws.
3. Mount other caster assembly on the opposite side using four washer head screws.

MOUNT WHEELS

Refer to Figure 1.

Wheels are mounted onto the two other corners of the base. To mount wheels:

1. Slide shaft through the wheel.
2. Secure shaft to wheel using the fiber hex nut.
3. Slide wheel with shaft through the L-Bracket on the base.
4. Secure wheel assembly to the base by pressing the retaining pin through the hole on the shaft end.
5. Repeat steps 1 through 4 for mounting other wheel to the opposite side.

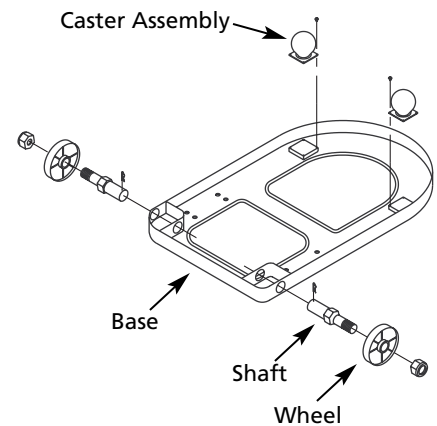


Figure 1 – Mounting Casters and Wheels

MOUNT SUPPORTS

Refer to Figure 2, page 3.

Supports are mounted onto top of the base. To mount supports:

1. Lay the base on the casters and wheels.
2. Position one support above the base so that the four holes on the supports are aligned with four holes on the base.
3. Secure support to base using four hex washer head bolts.
4. Repeat steps 1 through 3 to mount other support on the opposite side.

MOUNT HOUSING ASSEMBLY

Refer to Figure 2, page 3.

Housing assembly is mounted on the supports. To mount housing assembly:

1. Position housing assembly above the supports.
2. Slide housing assembly between the dovetail edges of the supports.
3. Make sure that the housing assembly is properly seated and the holes on the front and rear of the supports are aligned with holes on the housing assembly.

Model 1RWB3A

ENGLISH

Assembly (Continued)

4. Make sure the slots on the sides of the supports are aligned with slots on the housing assembly.
5. Secure housing assembly to each support using two hex washer head bolts from the front and rear.

MOUNT HANDLE

Refer to Figure 2.

Handle is attached onto the supports. To attach handle:

1. Slide handle on the housing assembly so that holes on the handle bar edge are aligned with the slots on the sides of the supports.
2. Secure handle to supports with two hex washer head bolts on each side.

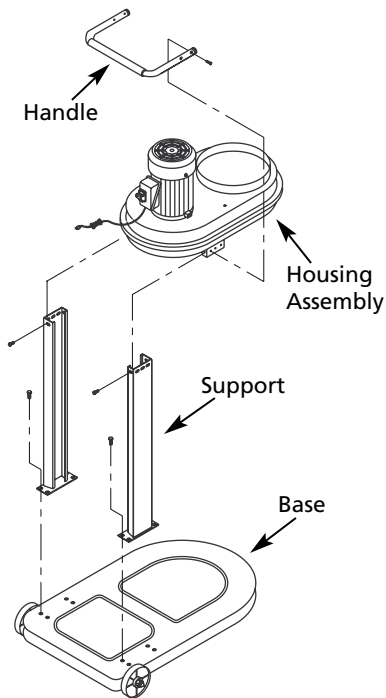


Figure 2 – Mounting Supports, Housing Assembly and Handle

MOUNT CONNECTOR

Refer to Figure 3.

Connector is attached onto bottom of the housing below the motor. To mount connector:

1. Position the connector so that the longer arm fits into the housing and the hose opening faces you.
2. Slide connector on the housing.
3. Secure connector to housing using a washer head screw.

ATTACH HOSE

Refer to Figure 3.

Hose is attached to the connector. To attach hose:

1. Slide hose clamp onto one end of hose. Loosen clamp screw if required to slide hose clamp onto hose.

2. Position the hose clamp wires on the hose grooves.
3. Slide hose with clamp onto connector.
4. Tighten hose clamp screw to secure hose with connector.
5. Slide other hose clamp onto the opposite hose end.

ATTACH ADAPTER

Refer to Figure 3.

A 4" to 2½" hose adapter is provided. Use adapter if tool has a 2½" dust port. To attach adapter to hose:

1. Loosen clamp screw on the free end of hose.
2. Slide adapter into hose.
3. Tighten clamp screw to secure adapter.

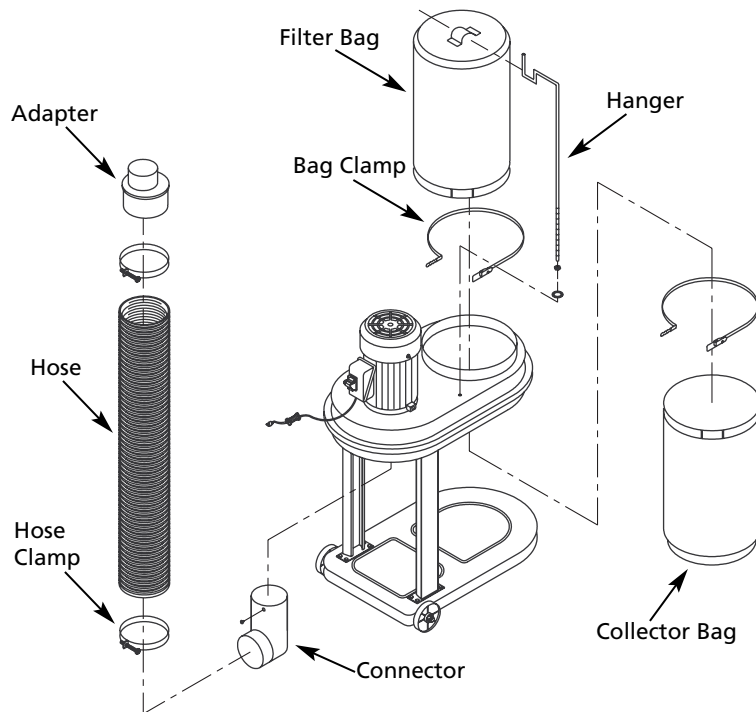


Figure 3 – Mounting Hose, Adapter, Connector and Bags

Dayton® Dust Collector

Assembly (Continued)

ATTACH HANGER

Refer to Figure 3, page 3.

Hanger is fastened on the top side of housing assembly. To attach hanger:

1. Gently tighten the hex nut provided onto the threads on the edge of hanger.
2. Slide a flat washer below the hex nut.
3. Position the hanger with hex nut and washer above the hole on the housing top.
4. Fasten hanger into the hole. Make sure hanger is secure.

ATTACH FILTER (TOP) BAG

Refer to Figure 3, page 3.

The filter bag displays the Dayton logo. The filter bag is hooked onto the hanger and attached to the housing. To attach filter bag:

1. Hang the filter bag by the loop on the hanger hook.
2. Slide the bag clamp into the loop on the bottom of the bag. Keep sliding the bag clamp until it comes out of the other side of the loop.
3. Gently lift the clamp handle to release.
4. Slide bag with clamp onto the opening on the housing top.
5. Secure bag to housing by positioning the spring connector into one of the slots on the latch and lock the clamp handle.
6. Make sure top bag is secure.

ATTACH COLLECTOR (BOTTOM) BAG

Refer to Figure 3, page 3.

1. Slide bag clamp into bottom bag loop until it comes out of the other side.
2. Gently lift the clamp handle to release.

3. Slide bag with clamp on to the opening on the housing bottom.
4. Position the spring connector into one of the slots on the latch and lock the clamp handle.
5. Make sure collector bag is secure.

Installation

⚠ DANGER Do not permit fingers to touch terminals of plug when installing or removing the plug to or from the outlet.

⚠ WARNING Do not connect to power source until unit is completely assembled.

POWER SOURCE

1. Motor is designed for operation on the voltage and frequency specified on motor nameplate.
2. Normal loads will be handled safely on voltages not more than 10% above or below the specified voltage.
3. Running unit on voltages not within range may cause overheating and motor burnout.

GROUNDING INSTRUCTIONS

Refer to Figure 4.

1. This tool is equipped with a 3-conductor cord.
2. Do not remove or alter grounding prong in any manner. In the event of malfunction or breakdown, grounding provides path of least resistance for electrical current to reduce risk of electrical shock.
3. Plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
4. The conductor with insulation having an outer surface which is green is equipment grounding conductor. If repair or replacement is necessary,

make sure equipment grounding conductor is not connected to line terminal.

5. If power cord is worn, cut or damaged in any way, have it replaced immediately.

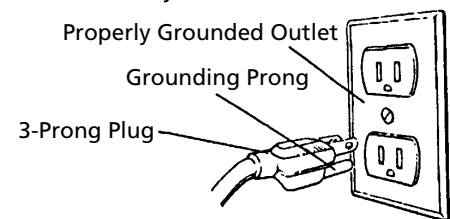


Figure 4 – Properly Grounded Outlet, 115 Volt

⚠ CAUTION Improper connection of the equipment-grounding conductor can result in a risk of electrical shock.

EXTENSION CORDS

1. The use of any extension cord will cause some drop in the voltage and loss of power.
2. Wires of the extension cord must be sufficient in size to carry the current and maintain adequate voltage.
3. Use the table below to determine the minimum wire size (A.W.G.) extension cord.
4. Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
5. If extension cord is worn, cut or damaged in any way, have it replaced immediately.

EXTENSION CORD LENGTH

Wire Size	A.W.G.
Up to 50 ft.	16

NOTE: Using extension cords over 50 ft. long is not recommended.

Model 1RWB3A

ENGLISH

Operation

DUST COLLECTOR

Refer to Figure 5, page 6.

1. Position dust collector near dust producing machine on a flat level surface.
2. Connect collector hose (Ref. No. 11) to dust producing machine using hose clamp (Ref. No. 10). Use 4-2½" adapter (Ref. No. 12) if needed.
3. Turn dust collector on before starting dust producing machine.

EMPTYING COLLECTOR BAG

⚠ DANGER Turn switch off and remove plug from power source outlet before emptying collector bag.

1. Empty collector bag by lifting bag clamp handle and releasing spring connector from latch. Slide bag away from housing. Dispose of dust properly.
2. Mount collector bag by sliding bag over opening on housing bottom. Position the spring connector into one of the slots on the latch and lock the clamp handle. Make sure collector bag is secure.

Maintenance

⚠ DANGER Turn switch off and remove plug from power source outlet before maintaining your dust collector.

Refer to Figure 5, page 6.

1. Clean motor of dust, chips or other particles. If operation is excessively

dusty or dirty, frequent inspection of motor is required. Vacuum any particles that may have entered the motor.

2. Replace worn, cut or damaged line cord.
3. Replace worn or damaged collector hose.
4. Replace worn or damaged filter and collector bags.
5. Clean casters as needed to ensure proper operation.
6. Frequently check that all nuts, bolts, screws, etc. have not loosened due to collector vibration.

LIMITED WARRANTY

DAYTON ONE-YEAR LIMITED WARRANTY. DAYTON® DUST COLLECTOR, MODELS COVERED IN THIS MANUAL, ARE WARRANTED BY DAYTON ELECTRIC MFG. CO. (DAYTON) TO THE ORIGINAL USER AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LOCATION, AS DAYTON DESIGNATES, SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED AT DAYTON'S OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE "PROMPT DISPOSITION" BELOW. THIS LIMITED WARRANTY GIVES PURCHASERS SPECIFIC LEGAL RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

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Product Suitability. Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While attempts are made to assure that Dayton products comply with such codes, Dayton cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a product, review the product applications, and all applicable national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Certain aspects of disclaimers are not applicable to consumer products; e.g., (a) some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some jurisdictions do not allow a limitation on how long an implied warranty lasts, consequently the above limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, any implied warranties of implied merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

Prompt Disposition. A good faith effort will be made for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Dayton at address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

Manufactured for Dayton Electric Mfg. Co., 5959 W. Howard St., Niles, Illinois 60714-4014 U.S.A.



For Repair Parts, call 1-800-323-0620

24 hours a day – 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

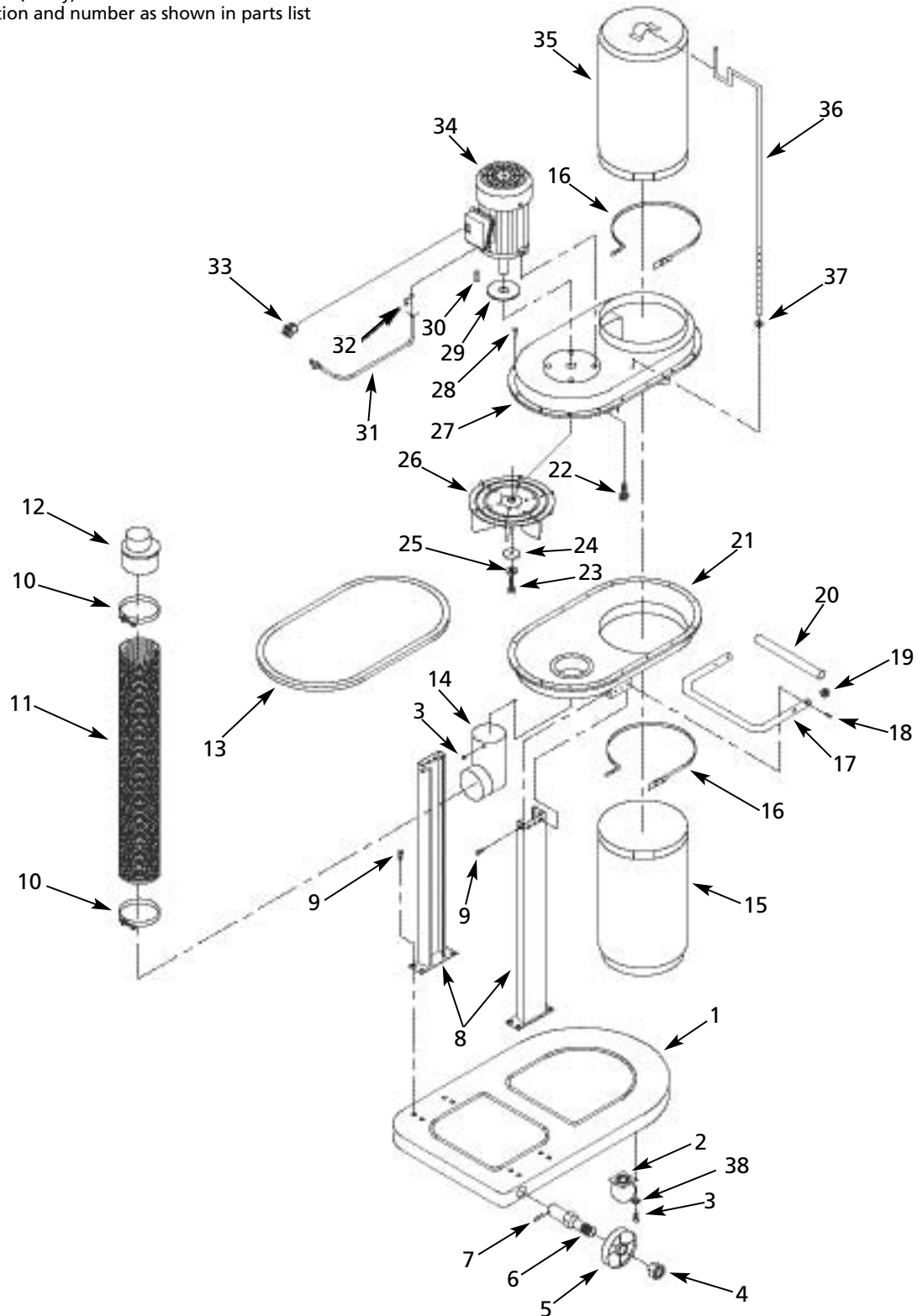


Figure 5 – Repair Parts Illustration for Dust Collector

Repair Parts List for Dust Collector

Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	Base	HV1620000G	1	25	6mm Lock washer	*	1
2	Caster	HV1620100G	2	26	Impeller	HV1621600G	1
3	M5 x 12mm Washer head screw	*	9	27	Upper housing	HV1621700G	1
4	M10 Fiber hex nut	*	2	28	M5 x 10mm Pan head screw	*	16
5	Wheel	HV1620300G	2	29	Gasket	HV1621800G	1
6	Shaft	HV1620400G	2	30	5 x 5 x 25mm Key	*	1
7	Retaining pin	HV1620500G	2	31	Power cord	HV0012600G	1
8	Support	HV1620600G	2	32	Strain relief	HV0141300G	1
9	M8 x 12mm Hex washer head bolt	HV1644000G	12	33	Switch with key	HV0806600G	1
10	Hose clamp	*	2	34	Motor	HV1633300G	1
11	4 x 60" Hose assembly	3AA34B	1	35	Filter bag (2.46 cu. ft.)	HV1633400G	1
12	4 to 2½" Adapter	HV0798901G	1	36	Hanger	HV1633500G	1
13	Rubber sleeve	HV1620700G	1	37	M6 Hex nut	*	1
14	Connector	HV1620800G	1	38	5mm Lock washer	*	8
15	Collector bag (2.46 cu. ft.)	HV1620900G	1	Recommended Accessories			
16	Bag clamp	HV1621000G	2	Δ	4" Hose Extension kit	3AA34B	1
17	Handle	HV1621100G	1				
18	M8 x 32mm Flat head screw	*	4				
19	Cap	HV1621200G	2				
20	Grip	HV1621300G	1				
21	Lower housing	HV1621400G	1				
22	M6 x 12mm Hex washer head bolt	HV1644100G	4				
23	M6 x 20mm Socket head bolt	*	1				
24	Spacer	HV1621500G	1				

(*) Standard hardware item, available locally.

(Δ) Not Shown.

Dayton® Dust Collector

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Motor will not run	<ol style="list-style-type: none"> 1. Defective plug, cord, switch or motor 2. Blown fuse or circuit breaker 	<ol style="list-style-type: none"> 1. Check wiring, replace defective parts 2. Check fuse or breaker, replace
Excessive dust in air	<ol style="list-style-type: none"> 1. Leaking bag or hose connection 2. Filter or collector bag leaks 	<ol style="list-style-type: none"> 1. Check filter and collector bag connections. Check collector hose connections 2. Dust trapped under bag clamp or collector bag not sealed on flange
Excessive impeller noise	<ol style="list-style-type: none"> 1. Large debris or piece of wood in impeller housing 2. Loose impeller 	<ol style="list-style-type: none"> 1. Do not vacuum metal materials. Turn collector off and let debris settle in collector bag 2. Disconnect collector from power source. Remove connector (Figure 5, Ref. No. 14) and tighten impeller
Excessive motor noise	Defective motor	Have motor checked by qualified motor service technician
Motor fails to develop full power or motor stalls	<ol style="list-style-type: none"> 1. Low voltage to collector caused by circuit overload 2. Low voltage to collector caused by undersized extension cords 3. Low voltage from power source 	<ol style="list-style-type: none"> 1. Remove other electric machines or appliances from circuit 2. Increase wire gauge size of extension cords or shorten extension cords 3. Request voltage check from power company
Motor slow to start or fails to reach full speed	<ol style="list-style-type: none"> 1. Burned or defective motor 2. Defective motor capacitor switch 	<ol style="list-style-type: none"> 1. Check motor, replace if necessary 2. Check switch, replace if necessary
Motor overheats	<ol style="list-style-type: none"> 1. Motor overload 2. Improper motor cooling 	<ol style="list-style-type: none"> 1. Reduce load by slowing dust production 2. Clean sawdust from motor
Tripping circuit breaker or fuses	<ol style="list-style-type: none"> 1. Motor overloaded 2. Improper capacity of circuit breaker or fuses 	<ol style="list-style-type: none"> 1. Reduce load by slowing dust production 2. Use proper capacity circuit breaker or fuse