POWERMATIC®

Operating Instructions and Parts Manual
Mobile Cyclone Dust Collector
Model PM2200

For serial # 17090036 and higher

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1.0 IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS DUST COLLECTOR.

WARNING – To reduce the risk of fire, electric shock, or injury:

1. Read and understand entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual.
3. Replace warning labels if they become obscured or removed.
4. This dust collector is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a dust collector, do not use until proper training and knowledge have been obtained.
5. Do not use this dust collector for other than its intended use. If used for other purposes, Powermatic disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear protective eye wear when operating machinery. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection. (Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses.)
7. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
8. Wear hearing protection (plugs or muffs) if noise exceeds safe levels.
9. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
10. Make certain the switch is in the **OFF** position before connecting the machine to the power supply. Turn off all controls before unplugging.
11. Make certain the machine is properly grounded. Connect to a properly grounded outlet only. See Grounding Instructions.
12. Make all machine adjustments or maintenance with the machine unplugged from the power source.
13. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
14. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately after maintenance is complete.
15. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
16. Provide for adequate space surrounding work area and non-glare, overhead lighting.
17. Keep the floor around the machine clean and free of scrap material, oil and grease.
18. Keep visitors a safe distance from the work area. **Keep children away.**
19. Make your workshop child proof with padlocks, master switches or by removing starter keys.
20. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
21. The dust collector is intended for indoor use. To reduce the risk of electric shock, do not use outdoors or on wet surfaces.
22. Do not use this dust collector for anything except wood dust. Materials such as liquids, metal shavings, metal dust, screws, glass, plastic or rock can cause sparks and/or damage when coming into contact with any part of the dust collector.
23. Do not use to pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
24. Do not use to pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.
25. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run dust collector over cord. Keep cord away from heated surfaces.

26. Do not use this dust collector with a damaged cord or plug. If the unit is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
27. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
28. Do not use without dust bag and/or filters in place.
29. Do not handle plug or machine with wet hands.
30. Do not put any objects into the openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
31. Do not operate without hose connected to the inlet. Place cap on unused inlet port. Hazardous moving parts inside. Unplug before removing or connecting inlet or inlet guard.
32. Use recommended accessories; improper accessories may be hazardous.
33. Maintain tools with care. Follow instructions for lubricating and changing accessories.
34. Turn off machine and disconnect from power before cleaning. Use a brush or compressed air to remove chips or debris; do not use bare hands.
35. Do not leave the machine when it is plugged in. Unplug from outlet when not in use and before servicing.
36. Do not stand on the machine. Serious injury could occur if the machine tips over.
37. Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. *Sect. 6.2,* Table 2 shows correct size to use depending upon cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
38. The dust collector is intended for household use.

⚠ **WARNING:** This product can expose you to chemicals including lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca.gov.

⚠ **WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca.gov/wood.

Familiarize yourself with the following safety notices used in this manual:

⚠CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

⚠WARNING This means that if precautions are not heeded, it may result in serious, or possibly even fatal, injury.

SAVE THESE INSTRUCTIONS

2.0 **Table of contents**

Section **Page**

3.0 **About this manual**

This manual is provided by Powermatic, covering the safe operation and maintenance procedures for a Powermatic Model PM2200 Cyclone Dust Collector. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

This manual is not intended to be an exhaustive guide to dust removal strategies, installation of shop duct work, or the use of optional dust collection accessories. Additional knowledge may be obtained from experienced users or trade articles. Whatever accepted methods are used, always make personal safety a priority.

If there are questions or comments about this product, please contact your local supplier or Powermatic. Powermatic can also be reached at our web site: www.powermatic.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

Register your product using the mail-in card provided, or register online: http://www.powermatic.com

4.0 **Specifications for Powermatic Cyclone Dust Collector**

Table 1

Model number		**PM2200**
Stock numbers	Complete kit with HEPA filter	1792200HK
	Main unit	1792200B
	Stand	1792200S
	HEPA canister filter	1792200H
Motor and electrical		
Motor type		totally enclosed fan cooled, induction, capacitor start
Horsepower		3HP (2.2kW)
Phase		Single
Voltage		230 V
Cycle		60 Hz
Listed FLA (full load amps)		16 A
Starting amps		65 A
Running amps (no load)		6 A
Start capacitor		250MFD 250VAC
Run capacitor		35μF 400VAC
On/off switch		Magnetic contactor with overload protection
Motor speed		3450 RPM
Power cord		12AWG x 3C, SJT, 6 ft.
Power plug included		6-20P
Recommended circuit size [1]		20 A
Sound emission [2]		78 dB at 9.84 ft (3m)
Remote control system		Radio frequency (FCC approved); range up to 50 ft. (15m)
RC transmitter battery		2 x AA, 1.5V
Timer setting		2,4,6,8 hours
Capacities		
Inlet diameter		8 in. (203 mm)
Inlet adaptors, number of		3
Inlet adaptors, diameter of		4 in. (100 mm)
Air Flow [3]		1543 CFM (40.8 m^3/min)
Air Velocity [3]		4380 FPM (22.4 m/s)
Static pressure loss (WC) [3]		2.24 inH_2O (57 mmH_2O)
Maximum static pressure loss (WC) [3]		14.30 inH_2O (363 mmH_2O)
Impeller		
Diameter		15.8 in. (403 mm)
Fin thickness		14 ga.
Type		radial fin
Material		steel
Canister filter		
Filter type		cartridge and spunbond polyester
Canister filter diameter		14-9/16 in. (370 mm)
Canister filter length		31-3/8 in. (1000 mm)
Filter surface area		46.82 sq. ft. (4.35 m^2)
HEPA Filter efficiency rating		100% of 2 micron particles, 100% of 1 micron particles
Cleaning system		Automatic when stop button is pushed
Collection bags		
Bag material		polyethylene
Drum collection bag size (Dia. x L)		38-9/16 x 47-1/4 in. (980 x 1200 mm)
Canister collection bag size (Dia. x L)		19-11/16 x 23-5/8 in. (500 x 600 mm)

			PM2200
Collection drum			
Capacity			63 gal. (75.7 L)
Diameter			24-1/2 in. (622 mm)
Height			32-1/2 in. (825 mm)
Material			steel
Main materials			
Frame			steel tubing, sheet metal
Body/housing			sheet metal
Paint finish			powder coat
Dimensions			
Footprint/base dimensions (LxW)			54-1/2 x 31-7/8 (1385 x 810/mm)
Overall dimensions, assembled (LxWxH)			54-1/2 x 31-7/8 x 85-1/4 in. (1385 x 810 x 2165 mm)
Shipping dimensions (LxWxH)	Box #1 base machine		48 x 27-9/16 x 43-11/16 in. (1220 x 700 x 1110 mm)
	Box #2 frame		69-11/16 x 28-3/8 x 17-3/4 in. (1770 x 720 x 450 mm)
	Box #3 canister filter		52-3/8 x 19-7/8 x 20 in. (1330 x 505 x 510 mm)
Weights			
Net weight, full kit assembled			359 lb (163 kg)
Box #1, base machine only		Net weight	257 lb (117 kg)
		Shipping weight	295 lb (134 kg)
Box #2, frame only		Net weight	79 lb (36 kg)
		Shipping weight	92 lb (42 kg)
Box #3, canister filter only		Net weight	22 lb (10 kg)
		Shipping weight	34 lb (15.6 kg)

[1] Subject to local/national electrical codes. Recommendation based upon dedicated circuit.

[2] The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

[3] Test condition: 8-in. inlet with standard canister filter installed.

L = length, W = width, H = height

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

⚠WARNING **Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.**

5.0 Setup and assembly

5.1 Unpacking and cleanup

Remove all contents from shipping carton and compare to the contents list in this manual. If shipping damage or any part shortages are identified, contact your distributor. Do not discard carton or packing material until dust collector is assembled and running satisfactorily.

5.2 Shipping contents

Box #1 (Figure 1)
1 Main housing assembly – A
1 Base – B
1 Upper drum – C
1 Lower drum – D
1 Drum lid – E
1 Inlet adaptor – F
1 Hose – J
2 Hose clamps – K
1 Cone – L
1 Drum handle – N
1 Cone clamp – P
2 Fixed casters – Q
2 Swivel casters – R
4 Drum casters – S
1 Polyethylene drum collection bag – U
2 Hoses 2in. – V
4 Hose clamps 2.5in. – W
1 Drum clamp – X
2 Hose hangers – Y
2 Rolls foam tape, 1x38L in. (30x970mm) – FT138
2 Quick connectors – QC
1 Roll foam tape, 1x25L in. (30x635mm) – FT125

Box #2 (Figure 2)
1 Support frame – SF
1 Quick-release handle – G
1 Right panel – H
1 Left panel with neg. pressure gauge – I
1 Remote controller with batteries – RC

Box #3 (Figure 2)
1 Canister filter assembly – CF
1 Bag clamp – M
1 Polyethylene canister collection bag – T
1 Roll foam tape, 3/4x50L in. (20x1265mm) – FT3/4

Hardware package (Figure 3)
36 Hex flange hd screw, 5/16x1/2 – HP1
4 Phillips pan hd screw, #10-24x3/8 – HP2
2 Phillips pan hd screw, 1/4x1/2 – HP3
8 Hex flange hd screw, 5/16x3/4 – HP4
8 Phillips pan hd screw, M5x8 – HP5
1 Open end wrench, 10/12mm – HP6

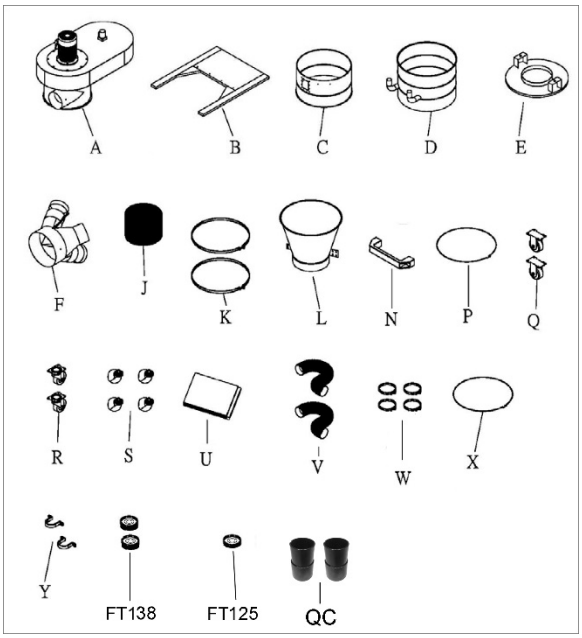


Figure 1: box #1 contents (not to scale)

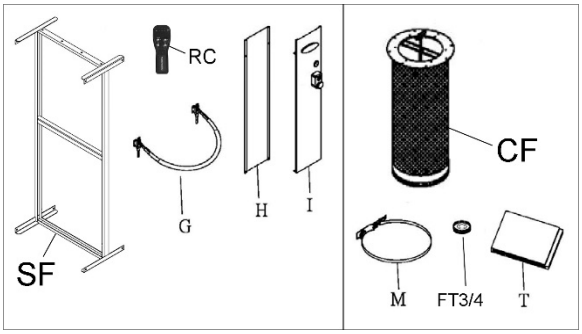


Figure 2: box #2 and #3 contents

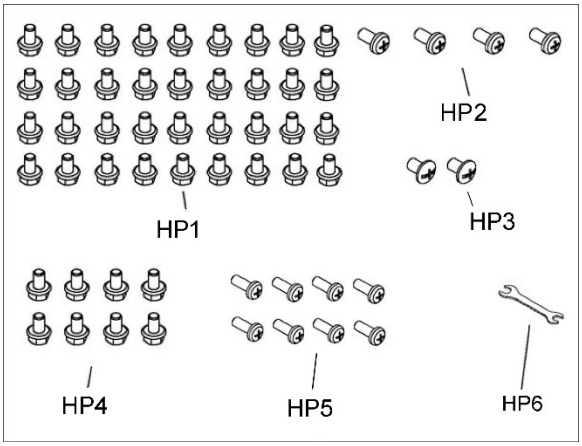


*Figure 3: # **PM2200-HP** hardware package contents (not to scale)*

5.3 **Tools required for assembly**

12mm wrench (provided)
Cross-point (Phillips) screwdriver

5.4 **Assembly**

1. Install fixed casters (Q, Figure 4) and swivel casters (R) to threaded holes in base (B), with hex flange bolts (HP1). Note that fixed casters are mounted below platform side of base, as shown.
2. Attach support frame (SF) to base (B) with hex flange bolts (HP1). Make sure support frame is oriented properly – the long end of lower brace will face toward front, or drum side.

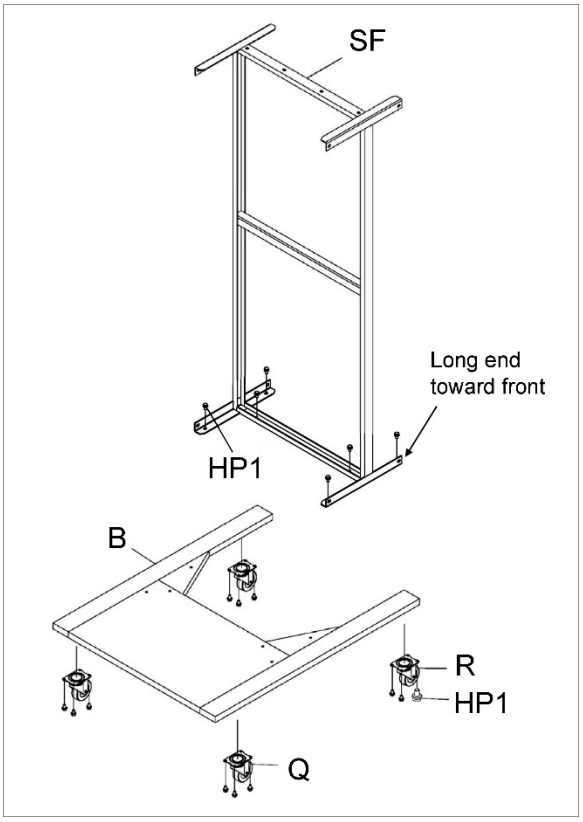


Figure 4

3. Use a hoist with straps/hooks through the eye bolts (EB, Figure 5) to raise housing assembly.

⚠CAUTION Use properly rated lifting equipment connected to the eye bolts atop unit. Failure to comply may result in serious injury.

4. Position main housing (A, Figure 5) onto support frame (SF) and secure with hex flange bolts (HP1).

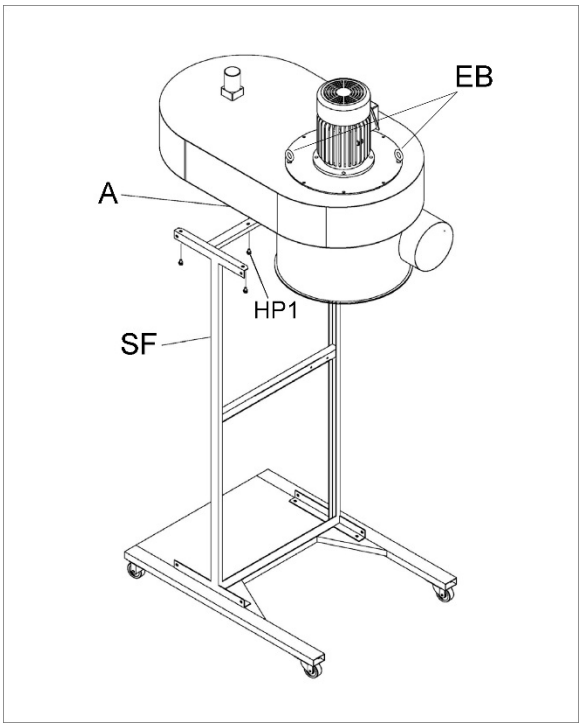


Figure 5

5. Attach left panel (I, Figure 6), and right panel (H) to frame (SF) with hex flange bolts (HP1). NOTE: Feed switch cords through to top of housing *before* tightening screws on left panel.

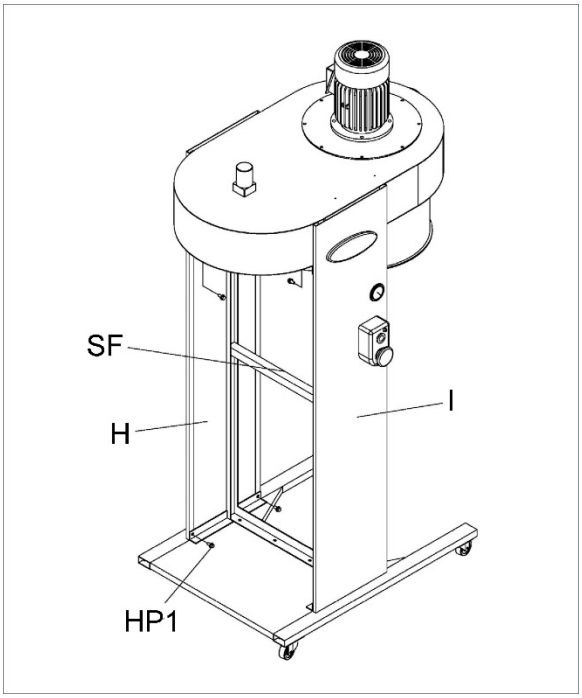


Figure 6

6. Assemble upper drum (C, Figure 7) and lower drum (D) and secure with drum clamp (X) by tightening screw.
7. Install handle (N) with screws (HP3).
8. Install casters (S) into threaded holes beneath drum.

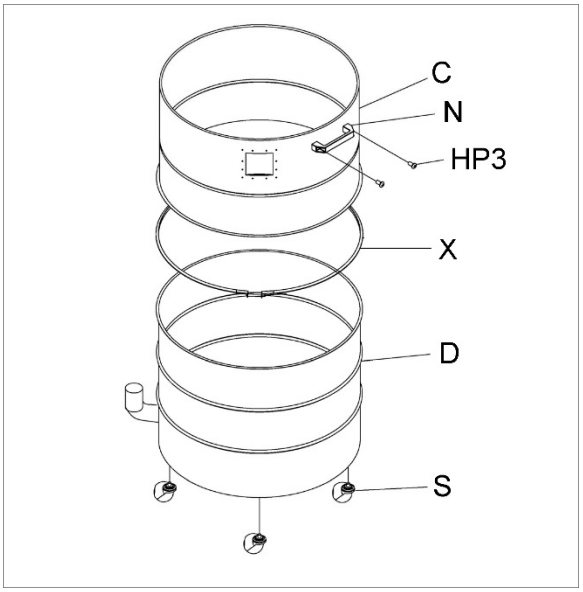


Figure 7

9. Assemble cone (L, Figure 8) to housing (A) and secure with cone clamp (P). Tighten screw on clamp.
10. Paste 1-inch wide strip of foam tape (FT1) around cone (L) just above bottom lip.
11. Paste 1-inch wide strip of foam tape (FT1) around flange of drum lid (E).
12. Install hose (J) to cone and drum lid with hose clamps (K).
13. Install quick-release handle (G) to flanges of cone with pan head screws (HP5).
14. Attach quick-release handle to drum lid (E) using nuts (E_1).

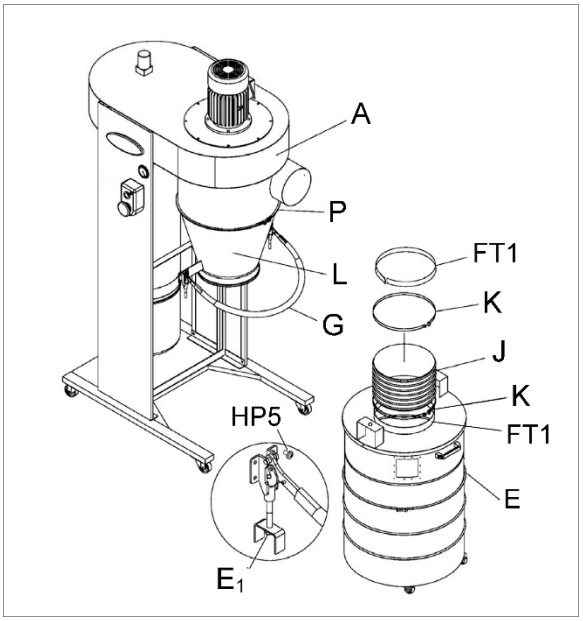


Figure 8

15. Push inlet adaptor (F, Figure 9) onto housing port and tighten with screw (F_1).

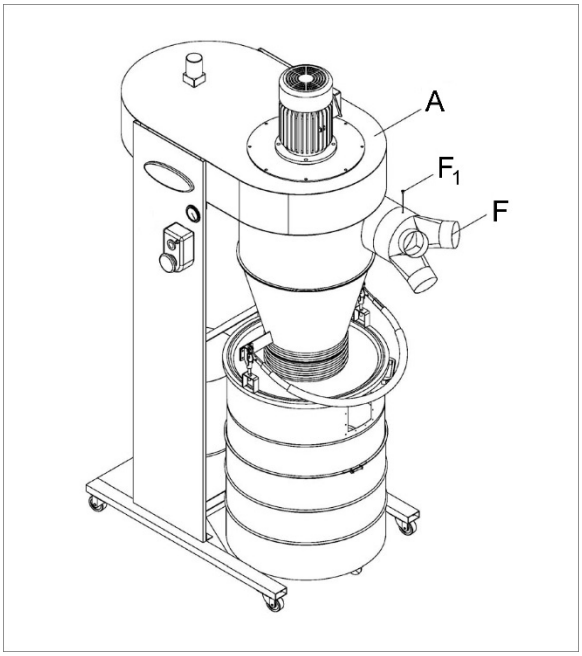


Figure 9

16. Install canister filter (CF, Figure 10) to housing, aligning the rod finial (CF_1) with the slot in the reduction motor platform.
17. Tighten canister filter to housing using eight hex flange bolts (HP4).

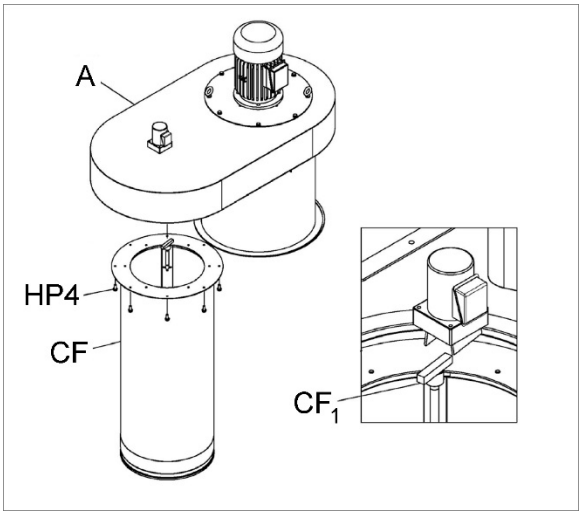


Figure 10

18. Mount hoses (V, Figure 11) to the two ports on housing (A) and secure with hose clamps (W).
19. Position hoses (V) in hose hangers (Y) and secure hangers to frame with pan head screws (HP2).
20. Connect main motor cord and reduction motor cord, as shown in Figure 11 insets.

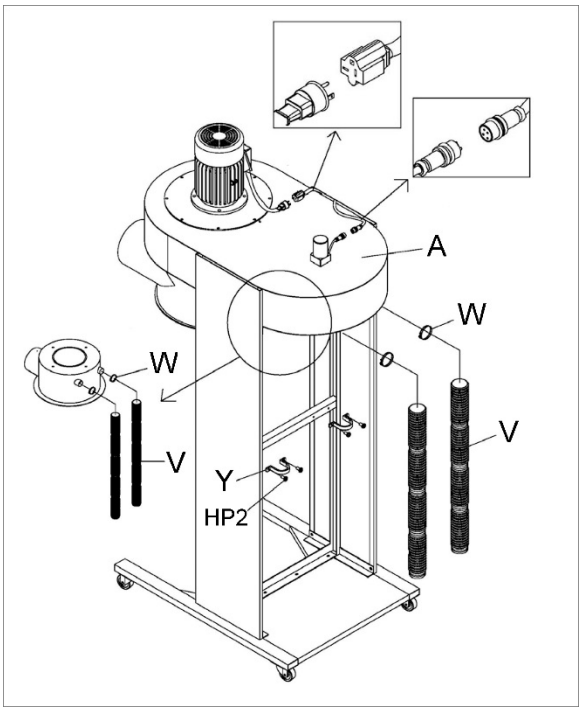


Figure 11

21. Apply 3/4-in. wide strip of foam tape (FT3/4, Figure 12) to lower end of canister filter, just above the lip.
22. Install canister collection bag (T) beneath canister filter and secure with bag clamp (M).

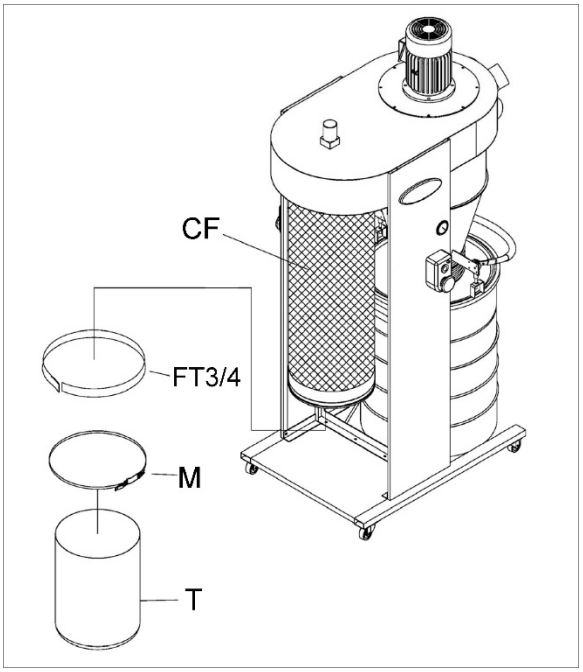


Figure 12

23. Slide free end of pressure gauge tube onto housing. See Figure 13.
24. Connect free ends of hoses (V) to quick connectors (QC) using hose clamps (W). See Figure 14. Push connectors onto lower drum ports.

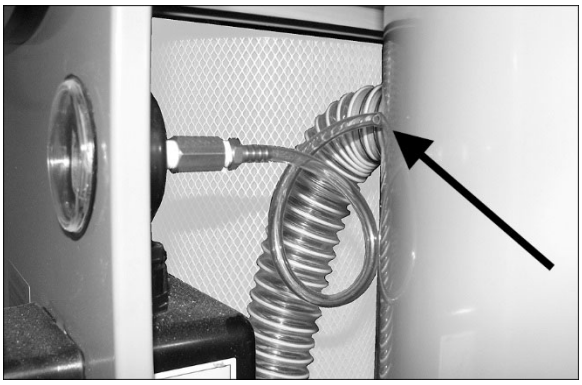


Figure 13

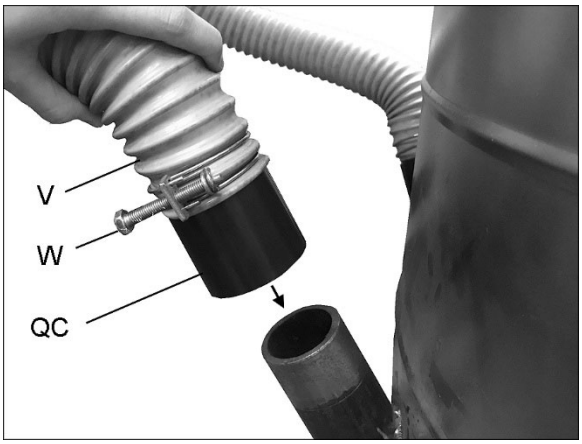


Figure 14

6.0 Electrical connections

⚠WARNING All electrical connections must be done by a qualified electrician in compliance with all local codes and ordinances. Failure to comply may result in serious injury.

The PM2200 Dust Collector is rated at single-phase, 230-volt power only. The dust collector comes with a plug designed for use on a circuit with a *grounded outlet* that looks like the one pictured in Figure 15.

Keep in mind that a circuit being used by other machines, tools, lights, heaters, etc. at the same time will add to the electrical load. A dedicated circuit to the dust collector will offer best results since dust collectors are generally used while other tools are running.

Before connecting to power source, be sure switch is in *off* position.

It is recommended that the dust collector be connected to a dedicated 20 amp circuit with circuit breaker or fuse. If connected to a circuit protected by fuse, use time delay fuse marked “D”. **Local codes take precedence over recommendations.**

6.1 GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug.

The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

⚠WARNING Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

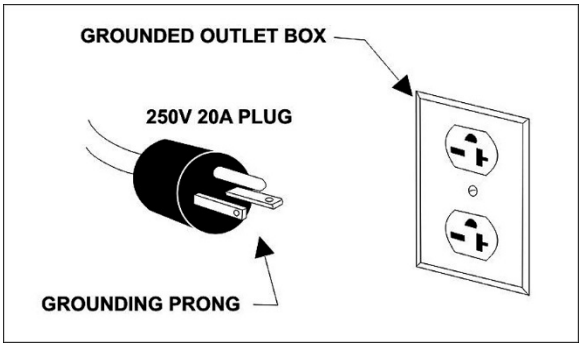


Figure 15

This appliance is intended for use on a circuit having a nominal rating more than 120 V and is factory-equipped with a specific electric cord and plug to permit connection to a proper electric circuit. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance. If the appliance must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the appliance should comply with all local codes and ordinances.

6.2 Extension cords

The use of extension cords is discouraged; try to position machines near the power source. If an extension cord is necessary, make sure it is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 2 shows correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Ampere Rating		Volts	Total length of cord in feet			
More Than	Not More Than	240	50	100	200	300
			AWG			
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

Table 2: Extension cord recommendations

7.0 Operations

7.1 Start/stop

Power Indicator Light – The start switch has a power indicator lamp which is on *whenever there is power connected* to the collector, not just when the machine is running. Do not assume that no light means there is no power to the machine. If the bulb is bad, there will be no indication. Always check before use.

⚠WARNING Do not rely that no light means no power to the machine. Always check for power first. Failure to comply may cause serious injury!

Refer to Figure 16:

Start (A) – Press the green start switch.

When power is connected to the machine, the green light is always on regardless of whether the collector is running or not.

Stop (B) – Press the red switch to stop.

Reset – If the dust collector stops without pressing the stop button, as the result of a tripped fuse or circuit breaker:

1. Press red button (C) to reset.
2. Press green button (A) to restart machine.

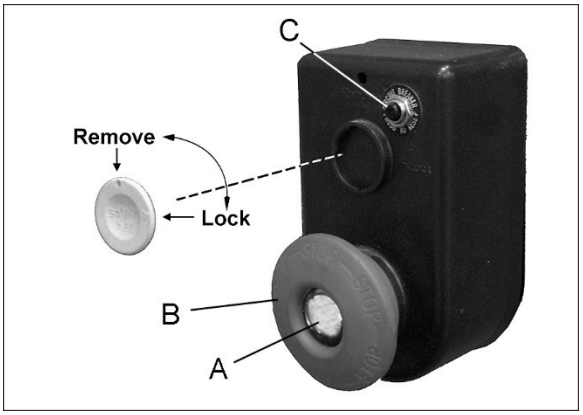


Figure 16

7.2 **Safety Key**

The start/stop switch comes equipped with a magnetic safety key. See Figure 16. When in place on the switch, the magnetic safety key trips a relay which allows the machine to start and stop when the respective switches are pressed. Being magnetic, the safety key can be removed to make the machine inoperable.

When using the machine, place the key on the switch cover lining up the arrow on the key with the REMOVE arrow on the cover. Then rotate the key so the arrow lines up with the LOCK arrow. This prevents the safety key from vibrating loose when the machine is operating.

7.3 **Remote controller**

The RF (radio frequency) remote controller operates on 2 AAA batteries (included). The batteries will need replacing periodically. The remote controller has an effective range up to approximately 50 feet (15 meters).

Press the **+** or **–** button to select desired timer setting: 2, 4, 6 or 8 hours. The dust collector will stop automatically at end of selected period. For continuous operation (no timer) select infinity (∞) position.

Figure 17

7.3.1 **Remote controller reset**

If the remote controller begins to function improperly, it should be cleared and reset.

To clear the remote controller, press and hold reset button (Figure 18) for 3 seconds until receiver “beeps” 3 times.

To reset the controller:

1. Press reset button for 1 second until receiver “beeps” once.
2. Press and hold “ON” button on the remote controller until receiver “beeps” twice. (If you are using multiple remotes, perform step 2 on each remote before proceeding.)
3. Press and hold reset button (C) for 3 seconds until receiver “beeps” 3 times.

The remote controller is now ready.

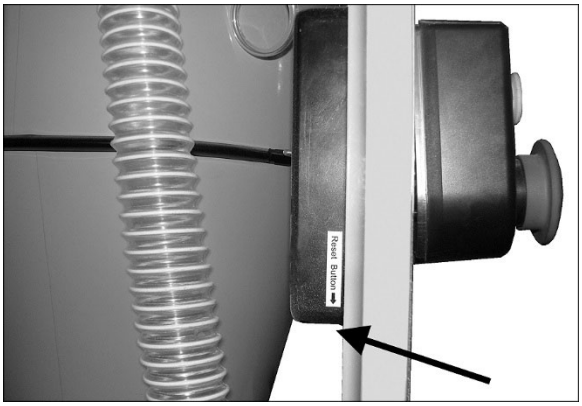


Figure 18

7.4 **Dust hose connection**

Use proper type hose to connect dust collector to machine(s) being operated. *Dryer vent hose is not acceptable for this purpose.* Secure hose at both ends with proper clamps.

If an inlet port is not being used, it should remain capped. An open port will diminish the machine’s efficiency, and may create a safety hazard.

Contact your nearest Powermatic distributor for a line of Dust Collector hoses and accessories. You can customize your installation and obtain maximum performance with dust hoods, hoses, clamps, fittings, and blast gates.

7.5 **Filter auto clean**

Canister filter cleaning is automatic. When the dust collector is shut off, the cleaning baffles will rotate one direction for 5 seconds, then the opposite direction for 5 seconds.

8.0 User-maintenance

⚠WARNING Turn OFF dust collector and remove plug from power source before performing any adjustments or maintenance. Failure to comply may result in serious injury.

8.1 Thermal overload reset

The switch box contains overload protection to help prevent damage to the motor. The relay will open the circuit (shut off dust collector) if motor is drawing excessive current during extended periods of operation.

If the overload is tripped, allow machine to cool down for several minutes. Then press breaker reset button (C, Figure 16) and restart dust collector.

8.2 Cleaning and bag inspection

Empty or replace canister and drum collection bags when full.

8.3 Motor inspection

Make frequent inspections of motor fan, and blow out (with low pressure air hose) or vacuum any accumulation of foreign material to maintain normal motor ventilation.

8.4 Additional servicing

Any other servicing should be performed by an authorized service representative.

9.0 Optional accessories

Part no.	Description
717511	Canister Collection Bag (pkg. of 5)
717531	Drum Collection Bag (pkg. of 5)

Table 3

10.0 **Troubleshooting PM2200 Cyclone Dust Collector**

10.1 **Electrical and motor problems**

Symptom	Possible Cause	Correction*
Motor will not start.	No incoming current.	Check connections at plug or circuit panel.
	Safety key missing from switch.	Install safety key.
	Motor overheated, relay tripped.	Allow machine to cool, then press reset button and restart.
	Low voltage.	Check power line for proper voltage.
	Open circuit in motor or loose connection.	Inspect all connections to switch box and motor for loose or open connections.
	Faulty start switch.	Inspect and replace switch if needed.
	Faulty start capacitor.	Replace capacitor.
	Faulty motor.	Inspect and replace motor if needed.
Motor will not start: fuse blows or circuit breaker trips.	Too many machines on shared circuit.	Connect dust collector to dedicated circuit.
	Short circuit in line cord or plug.	Inspect cord or plug for damaged insulation and shorted wires.
	Short circuit in motor or loose connections.	Inspect all connections on motor for loose or shorted terminals or worn insulation.
	Incorrect fuse or circuit breaker in power line.	Install correct fuse or circuit breaker at power source.
Motor overheats.	Motor overloaded.	Reduce load on motor.
	Air circulation through motor is restricted.	Clean motor fan with compressed air to restore normal air circulation.
Motor stalls, resulting in blown fuses or tripped circuit.	Motor overloaded.	Reduce load on motor.
	Short circuit in motor or loose connections.	Inspect connections on motor for loose or shorted terminals or worn insulation.
	Low voltage.	Correct low voltage conditions.
	Incorrect fuse or circuit breaker in power line.	Install correct fuse or circuit breaker.
Loud noise or vibrations coming from machine.	Loose fasteners.	Inspect machine and tighten all fasteners.
	Motor fan is hitting the cover.	Tighten fan or shim cover. Replace fan cover if damaged.
	Impeller is damaged.	Replace impeller.
Remote controller fails to activate machine.	Stop button still engaged.	Disengage stop button.
	Batteries drained.	Replace batteries.
	Remote needs resetting.	Follow instructions for clearing and resetting.

* **WARNING:** Some corrections may require a qualified electrician.

10.2 **Performance problems**

Symptom	Possible Cause	Correction
Poor performance; lack of suction.	Hose improperly secured at dust origination point.	Inspect and remedy.
	Inlet port is open.	Cap unused inlet ports.
	Collection bag is full.	Empty bag (check sight window).
	Collection drum not sealed properly.	Inspect drum for leaks, make sure lid is tight.
	Canister filter is dirty.	Clean filter.
	Wood has excess moisture content.	Use lumber with lower moisture content.
	Obstruction in dust hose or inlet port.	Inspect and clear obstruction.
	Dust hose too long.	Move collector closer to dust source and use shorter hose.
Excess dust or large chips backing up into canister filter.	Collection drum not sealed properly.	Inspect drum for leaks, make sure lid is tight.
	Collection bag full.	Empty bag (check sight window).

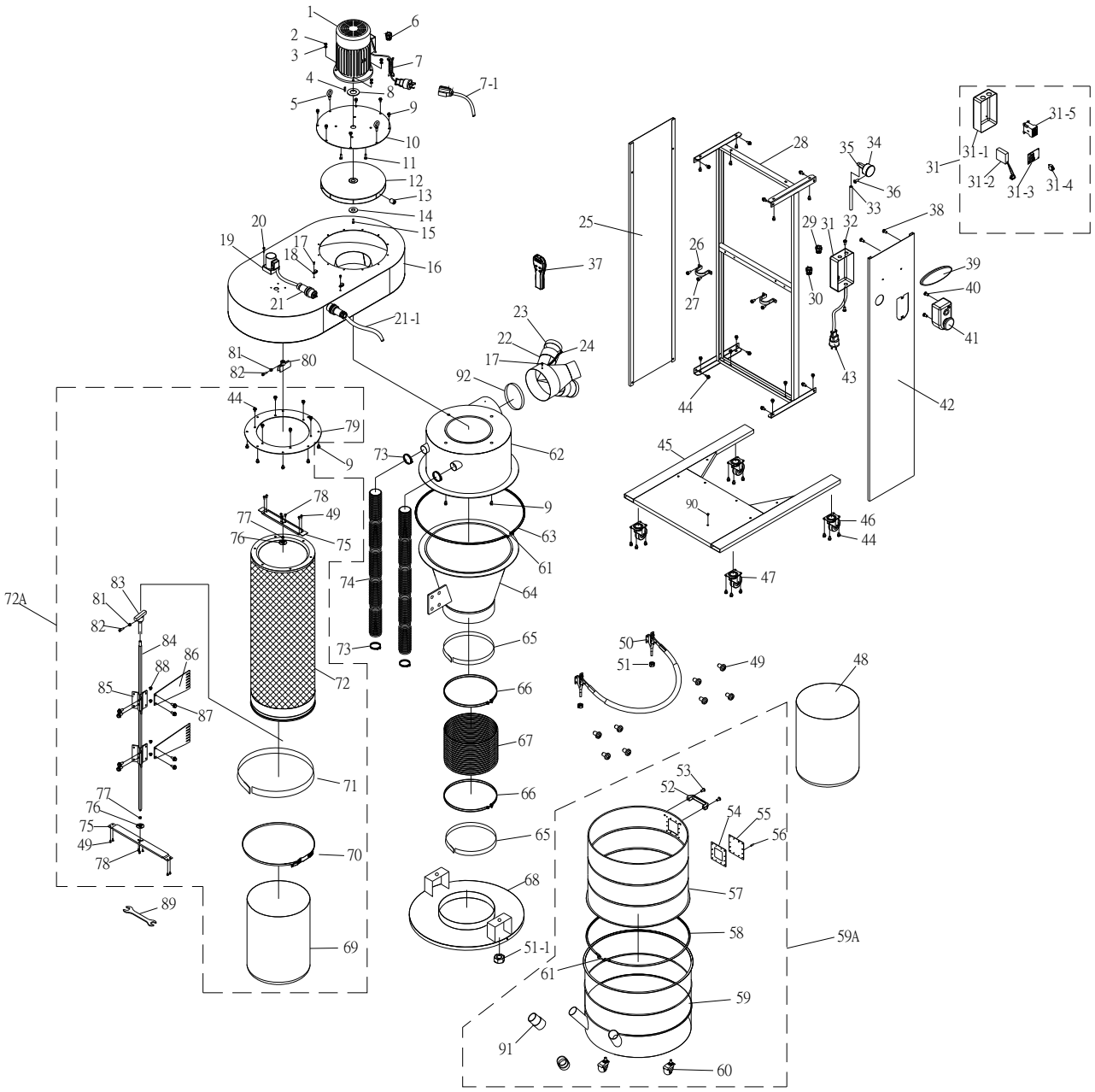
11.0 **Replacement Parts**

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from Powermatic.

Some parts are shown for reference only, and may not be available individually.

11.1.1 **PM2200 Cyclone Dust Collector – Exploded View**

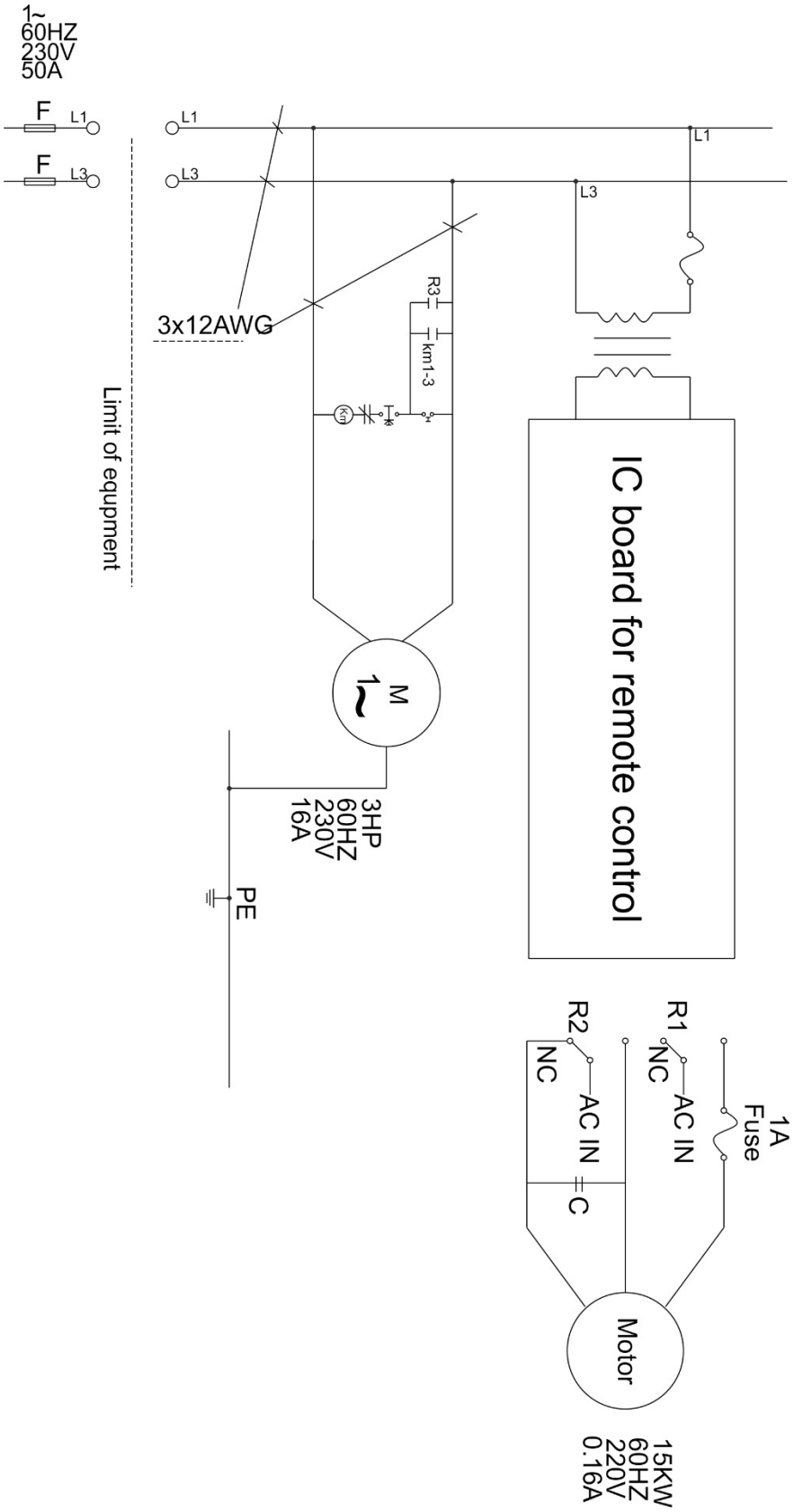


11.1.2 **PM2200 Cyclone Dust Collector – Parts List**

Index No	Part No	Description	Size	Qty
1	PM2200-001	Motor	3HP, 230V	1
	PM2200-01SC	Start Capacitor (not shown)	250MFD, 250VAC	1
	PM2200-01RC	Running Capacitor (not shown)	35μF, 400V	1
	JCDC1.5-01FC	Fan Cover (not shown)		1
	JCDC1.5-01CF	Cooling Fan (not shown)		1
	JCDC3-01CS	Centrifugal Switch (not shown)		1
2	TS-0570021	Hex Nut	5/16"-18	4
3	TS-0720081	Lock Washer	5/16”	4
4	JCDC2-06	Key	7x7x25 mm	1
5	JCDC1.5-08	Eye Bolt	5/16”	2
6	JCDC1.5-02	Strain Relief	M20-13B/PG20	2
7	PM2200-007	Motor Cord with Male Connector		1
7-1	PM2200-0071	Motor Cord with Female Connector		1
8	JCDC2-07	Rubber Seal		1
9	TS-0081031	Hex Cap Screw	5/16”-18x3/4”	18
10	PM2200-010	Motor Plate		1
11	TS-0051051	Hex Cap Screw	5/16”-18x1”	4
12	PM2200-012	Impeller	Dia. 15.8”	1
13	TS-0271071	Socket Set Screw	3/8”-16x3/4”	1
14	PM2200-014	Impeller Washer		1
15	TS-1503051	Socket Head Cap Screw	M6x20	1
16	PM2200-016B	Main Housing *(serial #17090036 and higher)*		1
17	TS-081C022	Pan HD Phillips Machine Screw	#10-24x3/8”	3
18	PM2200-018	Wire Clip	UC4	2
19	PM2200-019	Reducing Motor	15W, 230V	1
20	JBTS10MJS-620	Pan Head Screw	M4x60	4
21	PM2200-021	Reducing Motor Cord with Male Connector		1
21-1	PM2200-0211	Reducing Motor Cord with Female Connector		1
22	PM2200-022	Inlet	8”x4”x3	1
	PM2200-022A	Inlet Adaptor Assembly (#17,22 thru 24)		1
23	JCDC1.5-20	Inlet Adaptor Cap	4"	2
24	JCDC1.5-19	Chain		2
25	PM2200-025	Right Panel		1
26	PM2200-026	Hose Hanger		2
27	TS-081C022	Pan HD Phillips Machine Screw	#10-24x3/8”	4
28	PM2200-028B	Support Frame *(serial #17090036 and higher)*		1
29	PM2200-029	Strain Relief	MP-16	1
30	JCDC1.5-02	Strain Relief	M20-13B/PG20	1
31	PM2200-031	Control Box Assembly (#31-1 thru 31-5)		1
31-1	PM2200-031-1	Control Box Back Cover		1
31-2	JCDC2-21-4	Remote Control Transmitter		1
31-3	PM2200-031CB	Circuit Board		1
31-4	JCDC3-21-6	Overload Protector	28A	1
31-5	PM2200-031-5	Contactor	MA-18	1
32	TS-2284082	Pan HD Phillips Machine Screw	M4-0.7x8	2
33	PM2200-033	Clear Hose	Dia. 8mm	1
34	PM2200-034	Negative Pressure Gauge		1
35	PM2200-035	Adaptor		1
36	TS-0267061	Socket Set Screw	1/4”-20x5/8”	1
37	PM2200-037	Remote Control Transmitter		1
		Battery (not shown)	AAA, 1.5V	2
38	TS-081F032	Pan HD Phillips Machine Screw	1/4”-20x1/2”	2
39	3520B-140	Powermatic Logo		1
40	5512797	Pan HD Phillips Machine Screw	M5-0.8x25	2
41	PM2200-041	ON-OFF Switch Assembly		1
	PM2000-298	Safety Key for Magnetic Switch (not shown)		1
42	PM2200-042	Left Panel		1
43	JCDC3-23	Power Cord w/ 6-20P plug	12AWG x 3C	1
44	F012439	Serrated Hex Flange Screw	5/16”-18x1/2”	42
45	PM2200-045B	Base *(serial #17090036 and higher)*		1

Index No	Part No	Description	Size	Qty
46	JCDC3-33	Swivel Caster	3”	2
47	JCDC3-33-1	Swivel Caster w/ Brake	3”	2
48	717531	Drum Collection Bag (pkg. of 5)	980 x 1200 /mm	1
49	JMS10SCMS-72	Pan HD Phillips Machine Screw	M5-0.8x8	16
50	PM2200-050	Quick Lever Assembly		1
51	TS-0561082	Hex Nut	3/8”-16	2
51-1	TS-0640091	Nylon Lock Hex Nut	3/8”-16	2
52	JCDC1.5-42	Handle		1
53	TS-081F031	Flat Head Phillips Mach Screw	1/4”-20x1/2”	2
54	JCDC1.5-44	Rubber Pad		1
55	JCDC1.5-45	PC Plate		1
56	JCDC1.5-46	Rivet	4-2	12
57	PM2200-057	Upper Collection Drum		1
58	PM2200-058	Drum Clamp		1
59	PM2200-059	Lower Collection Drum		1
59A	PM2200-059A	Collection Drum Assembly (#52 thru 61, 91)		1
60	JCDC2-49	Swivel Caster	2”	4
61	TS-0050111	Hex Cap Screw	1/4”-20x2-1/2”	2
62	PM2200-062	Housing		1
63	JCDC2-35	Clamp	Dia. 500mm	1
64	PM2200-064	Cone		1
65	JCDC2-39	Foam Tape	L970 x W30 x T1 /mm	2
66	JCDC2-40	Hose Clamp	12-1/2"	2
67	JCDC2-41	Hose	Dia. 12"	1
68	PM2200-068	Drum Lid		1
69	717511	Canister Collection Bag (pkg. of 5)	600 x 500 /mm	1
70	JCDC1.5-60	Clamp		1
71	JCDC1.5-59	Foam Tape	L1265 x W20 x T3 /mm	1
72	PM2200-072H	Canister Filter – HEPA		1
72A	1792200H	HEPA Filter, complete (includes #44,49,69-72,75-79,81-88)		1
73	PM2200-073	Hose Clamp	Dia. 2"	4
74	PM2200-074	Hose	Dia. 2"	2
75	JCDC1.5-69	Support Plate		2
76	JCDC1.5-63	Bearing Cover		2
77	JCDC1.5-62	Oil-retaining Bearing		2
78	JCDC1.5-52	Socket HD Button Screw	M5x6	6
79	PM2200-079	Canister Fixing Plate		1
80	PM2200-080	Rod Kit		1
81	TS-1540031	Hex Nut	M5	2
82	TS-1522041	Socket Set Screw	M5-0.8x12	2
83	PM2200-083	Rod		1
84	PM2200-084	Spindle		1
85	JCDC1.5-65	Fixing Block		2
86	JCDC1.5-66	Scraper		2
87	TS-1481031	Hex Cap Screw	M5-0.8x12	8
88	TS-1540031	Hex Nut	M5-0.8	4
89	SWSS3-201	Open End Wrench	10-12 mm	1
90	5711571	Pan HD Phillips Machine Screw	3/16”x1/4”	1
91	PM2200-091	Quick Connector		2
92	PM2200-092	Foam Tape	L640 x W30 x T1/mm	1

12.0 **Electrical Connections for PM2200 Cyclone DC**



13.0 **Warranty and service**

Powermatic® warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period
The general warranty lasts for the time period specified in the literature included with your product or on the official Powermatic branded website.

- Powermatic products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered
This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered
This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. Powermatic woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations
Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support
Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. Powermatic has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the Powermatic website.

More Information
Powermatic is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the Powermatic website.

How State Law Applies
This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty
POWERMATIC LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. POWERMATIC SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Powermatic sells through distributors only. The specifications listed in Powermatic printed materials and on the official Powermatic website are given as general information and are not binding. Powermatic reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors, Machine Accessories
2 Year – Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery

NOTE: Powermatic is a division of JPW Industries, Inc. References in this document to Powermatic also apply to JPW Industries, Inc., or any of its successors in interest to the Powermatic brand.