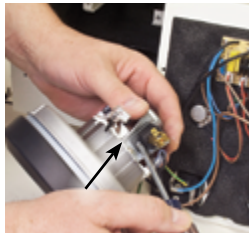


E. Remove the screws holding each motor brush assembly from the motor.

F. Slide the old motor brushes out and insert new ones.

Reconnect the electrical connectors to both motor brushes and tighten the screws that hold each motor brush in place. Slide the motor back into the housing, secure the motor to its mounting bracket and replace the front panel **making sure you have a good fit and that no wires are being pinched.**



Specifications

Weight 30½ lb

Height 19½", Width 15¼", Length 15¼"

Cyclone Height 16½", Width 7½"

Shipping Dimensions: 20¼" x 20¾" x 23¼"

Hose 2¼" Diameter, 5' Length

115 Volt / 6.5 Amp

750 Watt / 115 CFM / 52 dbA

Filter has a 16 Merv Rating, 99.8% of all particles 0.3 micron and larger

Additional & Maintenance Parts

- Top Connector with two 90° elbow fittings MADCVH-2
- 5' Vacuum Hose Assembly with one coupling MADCVH-5
- Motor Brush pair MP810P
- HEPA Filter MADC205
- Canister Filter MADC208
- Clear Dust Collection Bowl MA831
- 8 Amp Fuse CP804
- Casters (4) MA824
- Remote Switch Cable (9' Cord) MA822
- Remote Cord for MALC15 MA820
- Power Cord CP10831
- Exhaust Deflector MADC209

Please retain your proof of purchase for warranty repairs.

LIMITED WARRANTY

Warranty period is 2 years for the MADC20 Dust Collector. Blackstone Industries, LLC d/b/a The Freedom Electric Company warrants, to the original purchaser only, that its products will be free from defects in material or workmanship for the applicable period of time indicated above following the purchase date. During the warranty period, the defective product will be repaired or replaced without charge or, at our sole option, the purchase price will be refunded. This warranty does not cover damage caused in transit or by accident, misuse or ordinary wear.

ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIOD. IN NO EVENT WILL WE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

At our sole option, repair, replacement or refund will be made if the product is returned postage prepaid to:

**Freedom Electric Company, 16 Stony Hill Road
Bethel, Connecticut 06801**

All warranty repairs must be done at our factory at the above address. We will not pay any shipping or transportation charges.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Repair Services

Authorized repair service is available at the Freedom factory in Bethel, CT. Send items for repair to the factory marked:

"Attention: Repair Department"

**Freedom Electric Company
16 Stony Hill Road, Bethel, CT 06801**

Enclose the item(s), a packing list, a description of the problem or repairs needed, daytime phone number and email address. Estimates of repair cost will be made upon request.

FOREDOM®

Freedom Electric Company

16 Stony Hill Road, Bethel, CT 06801

Tel.: (203) 792-8622 • Fax: (203) 796-7861

Email: customerservice@blackstoneind.com

www.freedom.net

Owner's Manual

FOREDOM® MADC20 Dust Collector



For Your Own Safety

- Please read this Manual before operating your Freedom Dust Collector.
- Always wear eye protection while using power tools.
- NEVER use the Dust Collector to pick up flammable liquids or any liquids and do not use near flammable or combustible liquids as fire or explosion can occur.
- ALWAYS operate the Dust Collector with a filter collection bag properly in place that has been inspected for any damages. Sawdust and other debris can cause inhalation problems and are potentially fire and explosion hazards.
- ALWAYS disconnect the Dust Collector from a power source when removing or replacing filter bags or doing any sort of maintenance.

MADC20 Dust Collector Includes:

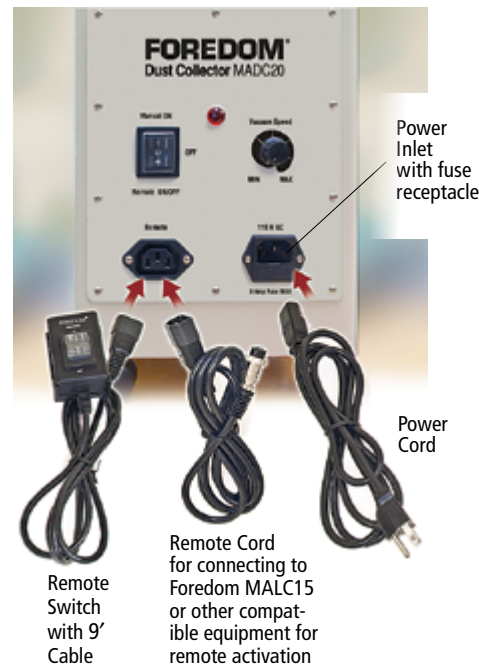
- Cyclone dust collector with collection bowl
- 5' Vacuum Hose Assembly
- Top Connector
- 2 HEPA Filters (1 installed)
- Remote Cord for MALC15
- Remote Switch with 9' Cable
- Power Cord
- Exhaust Deflector

Assembly

1. Remove the unit and all components from box and cross check with list above to make sure that there is nothing missing.
2. Lay the dust collector on its left side and remove the four screws to mount the cyclone with bowl.
3. Align the mounting holes of the cyclone with the dust collector, insert screws and tighten.
4. Place the dust collector upright on its casters.
5. Insert the Top Connector into the top of the cyclone and top of the dust collector.
6. Connect the Vacuum Hose into the Hose Port on the cyclone and the other end into a work chamber, fishmouth or other dust collection device.
7. Check to make sure that the power switch is in the off position and plug the power cord into Power Inlet. The Power Switch has 3 positions with 'Manual On' at the top, 'Off' in the center, and 'Remote On/Off' for the bottom. The red light is illuminated when the unit is on.
8. Plug the Remote Switch Cable into the Inlet labeled 'Remote' and turn on the unit. Turning the Vacuum Speed knob clockwise will increase the speed of the motor and cfm of air moving through the unit. The fan speed selected will depend on the job at hand.
9. The dust collector is best used near the work area, usually on the floor beneath your bench. A 5' long vacuum hose is supplied with the dust collector. Additional extension hoses are available (see back), but keep in mind that **longer hose lengths will reduce the suction of the unit.**
10. The remote control switch has a holder that has a (PSA) pressure sensitive adhesive backing. Just peel off the paper and press down the remote holder in a convenient out of the way location near your work area.

Operation and Maintenance

Use the Dust Collector for filtering dust and debris from grinding, sanding, buffing filing and polishing on wood, stone, diestone, metal and plastic. The unit is designed to run with the cyclone which gives you ten times the filter bag life, decreases maintenance and improves the performance of the unit.



Operation and Maintenance continued

Thermal shut off prevention:

The Dust Collector motor has a safety electronic thermal overload prevention circuit which turns the motor off if it gets too hot. This can be caused by **both filters being clogged, especially the canister filter MADC208 which is located under the HEPA filter bag.**

1. Periodically check the Clear Dust Collection Bowl for build up. When it is half full you need to empty it. Precious metals will be collected here for later refining. Other debris should be disposed of properly. To release the bowl, flip up the three spring latches. When the bowl is clean, place it back into position and reattach spring latches.

2. **Changing the HEPA Filter Bag**, loosen (do not remove), the four thumb screws located on the top of the dust collector and turn the cover clockwise to release the cover slots from the thumb screws. Pull the lid with the filter bag from the dust collector.

Next, unscrew and remove the two thumb screws that hold the filter bag in place. Pull off the old filter bag and insert the new bag over the mounting tube and screw on the thumb screws to hold the new filter in place.

Retighten the thumb screws.

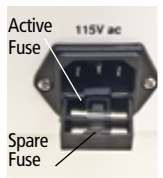


3. **To access the Canister Filter:** remove the Top Connector tubing. Then loosen the thumb screws to the filter chamber compartment and twist it until the lid can be removed. You should replace the HEPA filter bag at this time. Then look down into the empty chamber and unscrew the knob screw on the canister filter lid and carefully remove the metal and rubber washers and lid. You can now lift out the canister filter and replace it. Reassemble and start working again.



4. **Changing a Fuse – If the unit is not powering on, you should check the fuse.** The fuse and

spare fuse (8 amp, 5 x 20mm, medium time delay, Bussman GMC-8A or equivalent) are stored in the AC power cord receptacle on the front of the unit. To check or change the fuse, follow these directions: Remove the power cord from the Power Inlet to expose the fuse holder drawer. Use the blade of a small screwdriver in the slot of the fuse holder and gently pry outward. The active fuse is in the back of the drawer and a spare fuse is in the front compartment. If the glass case of the active fuse is darkened, the fuse is blown. From the underside of the drawer, push out the blown fuse using a small screwdriver. **Do not use a higher ampere fuse. MAX Fuse size is 8 Amps.**



Pry open fuse drawer

5. Changing Motor Brushes

Power decreases or intermittent power may be a sign that the motor brushes need to be replaced.

To replace them be sure to unplug the power plug and the remote plug.

A. Use a 2mm hex key to unscrew the 10 screws holding the front panel on the unit, placing it to the side without disconnecting the wires.

B. Remove the two Philips head motor mounting screws on the motor mounting bracket.

C. Carefully slide the motor out of the housing.

Motor with mounting bracket removed

D. Gently remove the electrical connectors to both motor brushes.

continued

