



3HP CYCLONE 1 MICRON CANISTER



TABLE OF CONTENTS

Important Safety Instructions Safety Guidelines - Definitions **General Safety Rules** Additional Safety For Dust Collectors Power Connections Motor Specifications Grounding Instructions Key Features and Components **Functional Description Product Specifications** Unpacking Assembly **General Tool Assembly** Maintenance Procedures Cleaning the Filter Changing the Filter Bag Emptying the Drum Routine Inspection Trouble Shooting Parts breakdown and parts list



IMPORTANT SAFETY INSTRUCTIONS

READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT. Failure to follow all instructions listed below, may result in electric shock, fire, and/or serious personal injury or property damage.

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, holddowns, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. *Always use common sense* and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. **REMEMBER:** Your personal safety is your responsibility.

This machine was designed for certain applications only. We strongly recommend that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted the manufacturer to determine if it can or should be performed on the product.

If you have any questions relative to its application DO NOT use the product until you have contacted the manufacturer and we have advised you.

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

READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)

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

1. Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.

2. Do not use outdoors or on wet surfaces

3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.

4. Use only as described in this manual. Use only manufacturer's recommended attachments.

5. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.



6. 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 appliance over cord. Keep cord away from heated surfaces.

7. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

8. Do not handle plug or appliance with wet hands.

9. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.

10. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.

11. Turn off all controls before unplugging.

12. Use extra care when cleaning on stairs.

13. Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.

14. Connect to a properly grounded outlet only. See Grounding Instructions.

SAVE THESE INSTRUCTIONS

- 1. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- 2. Replace the warning labels if they become obscured or removed.
- 3. This 3HP Portable Cyclone 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 this type of dust collector, do not use until proper training and knowledge have been obtained.
- 4. Do not use this machine for other than its intended use. If used for other purposes, **LAGUNA TOOLS INC.**, disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- 5. Always wear approved safety glasses/face shields while using this machine.
- 6. Before operating this dust collector, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
- 7. Wear ear protectors (plugs or muffs) during extended periods of operation.
- 8. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paint.
 - Crystalline silica from bricks, cement and other masonry products.
 - Arsenic and chromium from chemically treated lumber.



Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.

- 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 source.
- 11.Make certain the machine is properly grounded.
- 12.Make all machine adjustments or maintenance with the machine unplugged from the power source.
- 13.Form a habit of checking to see that all extra equipment such as adjusting keys, wrenches, scrap, stock, and cleaning rags are removed away from the machine before turning 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 when maintenance is complete.
- 15.Make sure the dust collector is on a flat even surface and the wheels locked in place before use.
- 16.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.
- 17. Provide for adequate space surrounding work area and non-glare, overhead lighting.
- 18.Keep the floor around the machine clean and free of scrap material, oil and grease.
- 19.Keep visitors a safe distance from the work area. Keep children away.
- 20.Make your workshop child proof with padlocks, master switches or by removing starter keys.
- 21. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.



- 22. Maintain a balanced stance at all times so that you do not fall or lean against the dust collector. Do not overreach or use excessive force to perform any machine operation.
- 23. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
- 24.Use recommended accessories; improper accessories may be hazardous.
- 25. Maintain machinery with care. Follow instructions for lubricating and changing accessories.
- 26. Turn off the machine before cleaning. Use a brush or compressed air to remove dust or debris — do not use your hands.
- 27.Do not stand on the machine. Serious injury could occur if the machine tips over.
- 28.Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.

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

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

NGE61 Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

GENERAL SAFETY RULES

WARNING FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

FOR YOUR OWN SAFETY, READ AND UNDERSTAND THE INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the unit's application and limitations as well as the specific hazards peculiar to it.

KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

DON'T USE IN DANGEROUS ENVIRONMENT. Don't use this unit in damp or wet locations, or expose it to rain. Keep work area well-lighted.

KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.

DISCONNECT UNIT before servicing.

CHECK DAMAGED PARTS. Before further use of the unit, properly repair or replace any part that is damaged.

FAILURE TO FOLLOW THESE RULES MAY RESULT IN

SERIOUS INJURY.

ADDITIONAL SAFETY FOR DUST COLLECTORS

Intended use. This dust collector is only intended for collecting wood dust and chips from woodworking machines. Do not use this dust collector to collect metal, dirt, pebbles, drywall, asbestos, lead paint, silica, liquids, aerosols, or any flammable, combustible, or hazardous materials.

Hazardous dust. Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each work piece material, and always wear a NIOSH-approved respirator to reduce your risk.



Dust allergies. Dust from certain woods may cause an allergic reaction in people and animals.

Make sure you know what type of wood dust you will be exposed to in case there is a possibility of an allergic reaction.

Wear respirator. Fine dust that is too small to be caught in the filter will be blown into the ambient air during operation. Always wear a NIOSH-approved respirator during operation and for a short time after to reduce your risk of permanent respiratory damage.

Emptying dust. When emptying dust from the collection container, wear a respirator and safety glasses. Empty dust away from ignition sources and into an approved container.

Disconnecting power supply. Turn the switch off, disconnect the dust collector from the power supply, and allow the impeller to come to a complete stop before leaving the machine unattended or doing any service, cleaning, maintenance, or adjustments.

Suspended dust particles and ignition sources. Do not operate the dust collector in areas were explosion risks are high. Areas of high risk include, but are not limited to, areas near pilot lights, open flames, or other ignition sources.

Fire suppression. Only operate the dust collector in locations that contain a fire suppression system or have a fire extinguisher nearby.

Impeller hazards. Do not place your hands or tools near the open inlet during operation for any reason. The powerful suction could easily cause accidental contact with the impeller, which will

cause serious personal injury or damage to the machine. Always keep small animals and children away from open dust collection inlets.

Avoiding sparks. Do not allow steel or rocks to strike the impeller—this may produce sparks.

Sparks can smolder in wood dust for a long time before a fire is detected. If you accidentally cut

Into wood containing tramp metal (nails, staples, spikes, etc.), immediately turn **off** the dust collector, disconnect it from power, and wait for the impeller to stop—then empty the collection container into an approved airtight metal container.

Operating location. To reduce respiratory exposure to fine dust, locate permanently installed dust collectors away from the working area, or in another room that is equipped with a smoke detector. Do not operate the dust collector in rainy or wet locations— exposure to water may create a shock hazard or decrease the life of the machine.

Static electricity. Plastic dust lines generate high amounts of static electricity as dust chips pass through them. Although rare, sparks caused by static electricity can cause explosions or fire. To reduce this risk, make sure all dust lines are thoroughly grounded by using a grounding wire.



Regular cleaning. Regularly check/empty the collection bags or drum to avoid the buildup of fine dust that can increase the risk of fire. Make sure to regularly clean the surrounding area where the machine is operated—excessive dust buildup on overhead lights, heaters, electrical panels, or other heat sources will increase the risk of fire.



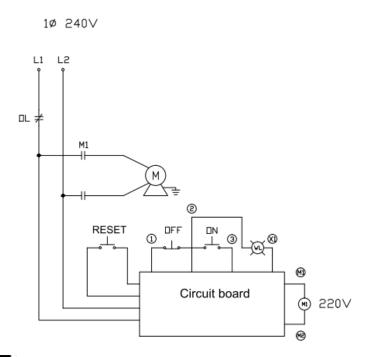
This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.



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

SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.

POWER CONNECTIONS



ADANGER DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.



MOTOR SPECIFICATIONS

Your machine is wired for 240 volts, 50 HZ alternating current. Before connecting the machine to the power source, make sure the switch is in the "OFF" position.

GROUNDING INSTRUCTIONS

ADANGER THIS MACHINE MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

1. This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

The installer, such as a qualified electrician, cut (or bend over) and insulate the grounding conductor from a field wiring supply cable.

In the event of certain types of malfunctions or breakdowns, grounding provides a path of least resistance for electric current—in order to reduce the risk of electric shock.

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Full Load amperage Draw

Amp draw at 240V (prewired)..... 17 Amps

Power Supply Circuit Requirements

The power source circuit for your machine must be grounded and rated for the amperage given below. Never replace a circuit breaker on an existing circuit with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, consult a qualified electrician.





ADANGER IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.

240 VOLT Single-Phase Operation

The motor supplied with your machine is a 240 volt motor. It is shipped ready-to-run for 240volt operation.

FUNCTION

High frequency remote control switch



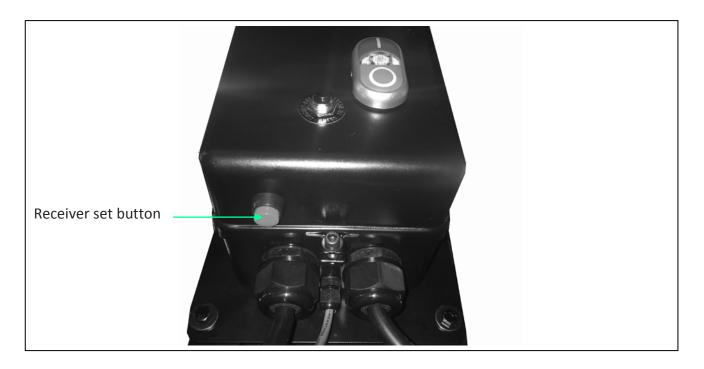
Hand held remote controller





PROGRAMMING THE REMOTE CONTROL

- 1. Ensure the machine is switch ON before programming the remote control.
- 2. Press the BLACK set button on the bottom of the remote switch until you hear two beeps.
- 3. Press the Remote set button on your hand held controller simultaneously with the BLACK button until you hear three beeps to complete the set up.





PRODUCT SPECIFICATIONS

Motor	2200w (3hp)
Power Supply	220-240V / 50Hz / 1PH
Running Amp	(with 8" inlet) 17A @ 240v
Recommended Breaker Size (MCB)	30 Amps (Type D)
Airflow (Traditional Method)	3831m3/hour (2253cfm)
Airflow (Realistic Method)	2209m3/hour (1299cfm)
Max. Static Pressure	285mm in water (11.2")
Fan Diameter	390mm (15.5")
Inlet Diameter	1x 200mm or 3 x 100mm (1 x 8" or 3 x 4")
Switch	High frequency remote control switch
Noise Level	82 dB(A) @ 3m
Drum Collection Capacity	209 Litre octagonal drum
Packing Size (WxDxH)	1260 x 770 x 1250mm
Machine Weight (Net Weight)	140kg
Shipping Weight (Gross Weight)	170kg
Filter Media	Filtering area: 9.5m2 (102ft2)
Cartridge Filter	400mm diameter x 900mm height

Cartridge Filter Filtration Size Drum Collection Bag Layflat Size Filter Collection Bag Layflat Size Filtering area: 9.5m2 (102ft2) 400mm diameter x 900mm height 99.7% @1 Micron 960 x 960mm (38" x 38") 660 x 620mm (26" x 24.5")

CE



Woodworking machinery at its best!

Declaration of Conformity for CE Marking

Charnwood Machinery Ltd Cedar Court Walker Road Bardon Hill Leicestershire LE67 1TU England

Declare thatIndustrial Dust Collector & Air CleanerModelsB Flux, C Flux1, C Flux3, P Flux1, P Flux3

Conforms with the following Directives:

Machinery Directive 2006/42/EC

And further conforms with the following EU harmonized standard;

EN ISO 12100:2010, EN 60204-1:2006/AC:2010

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directive.

Signed:_____R Cook

Dated: 09/11/2017

Location: Leicestershire

Richard Cook Director

C F

Tel. 01530 516926 Fax. 01530 516929 email; sales@charnwood.net Website: <u>www.charnwood.net</u> VAT GB 290 2170 80 Charnwood Machinery Ltd, Cedar Court, Walker Road, Bardon Hill, Leicestershire, LE67 1TU, England Registration No:1316450



UNPACKING

Your 3HP Mobile Dust Cyclone comes packed in a single box. Before attempting to assemble this machine, follow these directions for unpacking:

- 1. Carefully cut the banding straps and remove them from the box.
- 2. Cut along the tape line at the top of the box.
- 3. Remove all parts from the top of the styrofoam and set aside.
- 4. Remove the styrofoam packing material from the top of the machine.
- 5. Carefully take out the machine components from the box and set aside.
- 6. Using the diagram below, ensure that all parts are present and in good condition.



DESCRIPTION (QUANTITY) Figure 1

- A. Motor
- B. Switch and remote controller
- C. Dust chute
- D. Top upright supports (3)
- E. Canister 1 Micron
- F. Base frame
- G. Octagon front and back panel
- H. Octagon drum side panels
- I. Octagon drum lid
- J. Cyclone funnel
- K. Cyclone barrel
- L. Intake cylinder

- M. Canister cover plate
- N. Octagon drum foot peddle
- O. Inlet adapter
- P. Lower upright supports (3)
- Q. Drum insert
- R. Upright support reinforcement plate (3)
- S. Foot peddle bar (left and right)
- T. Foot peddle assembly fittings
- T1. Lower triangular support plate (2)
- T2. Foot peddle bar support (2)
- T3. Lower support plate (2)
- U. Hardware box
- V Operating and Parts Manual

Report any missing or damaged parts to your dealer or distributor. Prior to tool assembly and use, read this manual thoroughly to familiarize yourself with proper assembly, maintenance and safety procedures.



GENERAL TOOL ASSEMBLY

EXAMPLIES: This step requires two adults. This 3HP Mobile Dust Cyclone is heavy, be careful when lifting and handling it! Failure to comply may cause serious injury and/or damage to the machine and/or property!

Tools Required

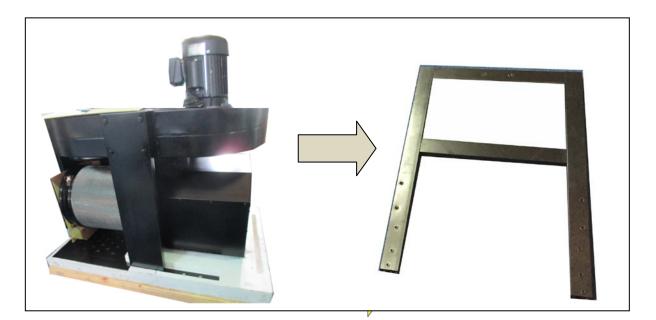
10mm wrench / 12mm wrench / 14mm wrench Phillips screwdriver 4mm hex wrench / 5mm hex wrench

To assemble your dust cyclone, follow these steps:

For your own safety, do not connect the machine to the power source until the machine is completely assembled. Please also make sure that you read and understand the entire instruction manual.

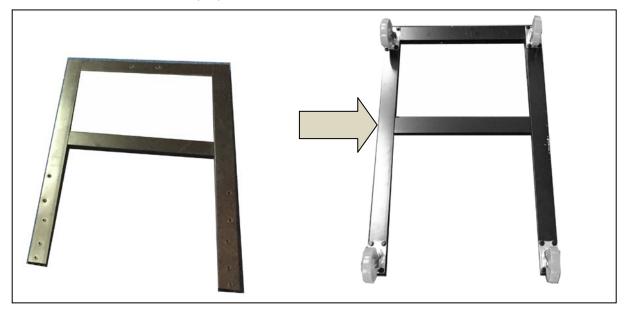
ASSEMBLY TIME ESTIMATE 5 hour to 6 hour

Step One: Turn the unit upside down. Make sure you use a cushion under the canister top side to even out the unit to the same height as the motor. Do not have the unit lopsided. Remove the base (G) which has been fastened to the (3) top upright supports (E).





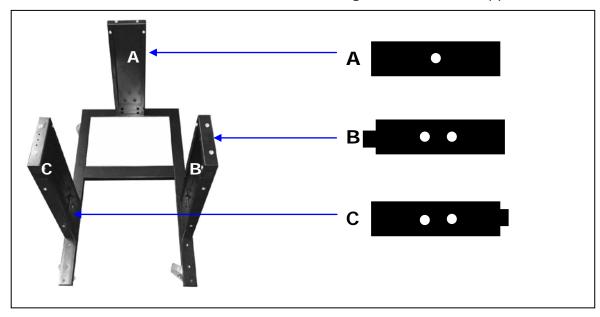
Step Two: Secure the (4) 3" wheels to the underside of the base (G) using (16) 5/16"*3/4" hex bolts and (16) 5/16"*od18*2T flat washers.



Step Three: Turn the base (G) around with it standing on the (4) 3" red wheels and secure the three lower upright support panels (R). using (6) 3/8"*3/4" hex bolts and (6) 3/8"*0D23*2t flat washers.

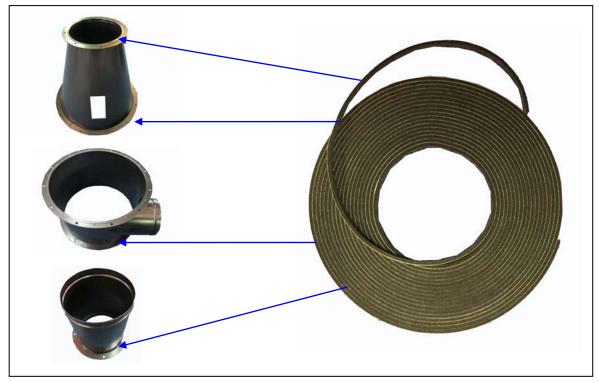
Each lower upright support panels (R) numbered for its specific location. A – shown with one dot is located on the canister side.

- B shown with two dots with extension on left is located on the front side
- C shown with two dots with extension on right is located on opposite end.





Step Four: Install the foam tape to the upper and lower rims of the three components listed, Cyclone funnel, Cyclone barrel, and Intake cylinder.



Step Five: Attach the intake cylinder to the dust chute using (4) 5/16"*5/8" hex spring bolts. Then, attach the cyclone barrel onto the dust chute using (12) 5/16"*3/4" hex bolts and (12) 5/16"*OD18*2t flat washers followed by attaching the cyclone funnel to the barrel using (12) 5/16"*3/4" hex bolts, (24) 5/16"*OD18*2t flat washers and (12) 5/16" hex nuts.

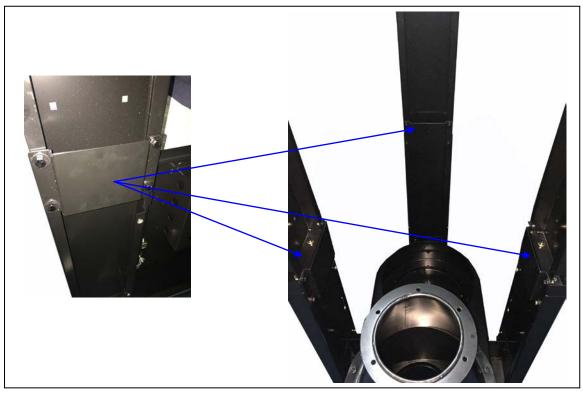




Step Six: Secure the base with (3) lower upright support panels to the unit using (6) 5/16"*3/4" hex bolts and (6) 5/16"*OD18*2t flat washers.



Step Seven: Secure the (3) upright support reinforcement plates (T) using (12) 5/16"*3/4" hex bolts and (12) 5/16"*OD18*2t flat washers.



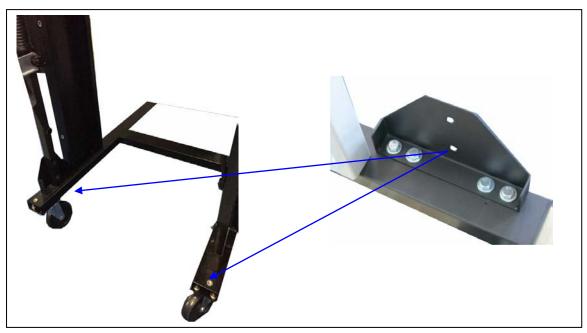
3HP Mobile Dust Cyclone Manual



Step Eight: With the help of another person, lift the unit up carefully to the right side up with the motor on top and the wheels at the bottom.

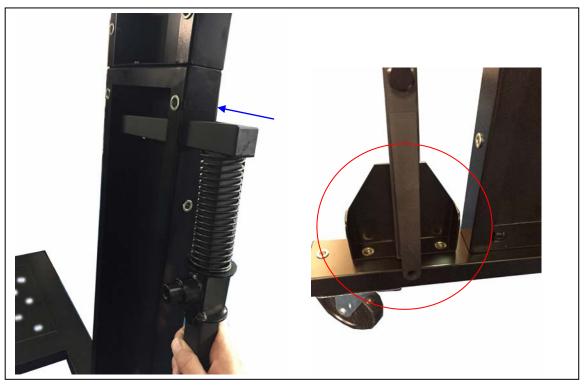


Step Nine: Secure the lower triangular support plate to the base using (4) 5/16"*3/4" hex bolts and (4) 5/16"*OD18*2t flat washers. Follow the same steps for the opposite side.

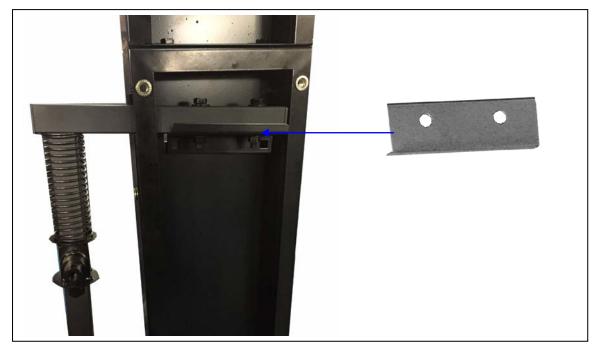




Step Ten: Slide the Foot pedal bar into the opening on the lower upright support panel (R). Make sure the end of the bar is on the inside of the triangular support plate. Follow the same steps for the opposite side.

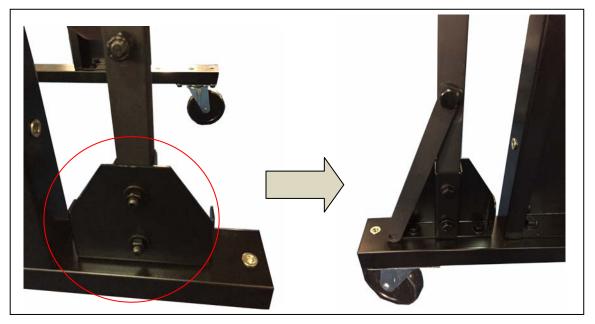


Step Eleven: Secure the foot pedal support to the lower upright support panel using (4) 5/16"*1/2" carriage bolts, (4) 5/16"*OD18*2t flat washers and (4) 5/16" hex nuts. Then secure the foot pedal bar to this support using (4) 5/16"*1-3/4" hex bolts, (8)5/16"*OD18*2t flat washers and (4) 5/16" hex nuts. Follow the same steps for the opposite side.

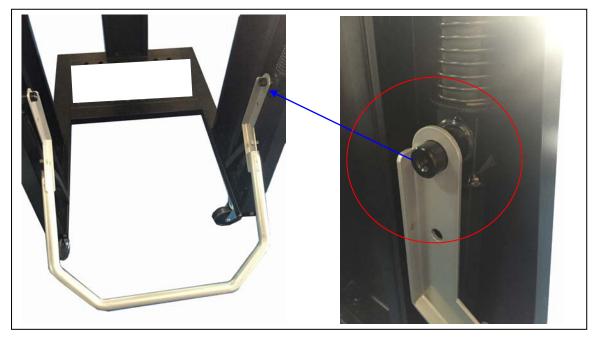




Step Twelve: Secure the base of the foot pedal bar to the triangular support plate by holding the lower support plate vertically up against the foot pedal bar using (4)5/16"*1-3/4" hex bolts, (8) 5/16"*OD18*2t flat washers and (4) 5/16" hex nuts from the inside out. Follow the same steps for the opposite side.

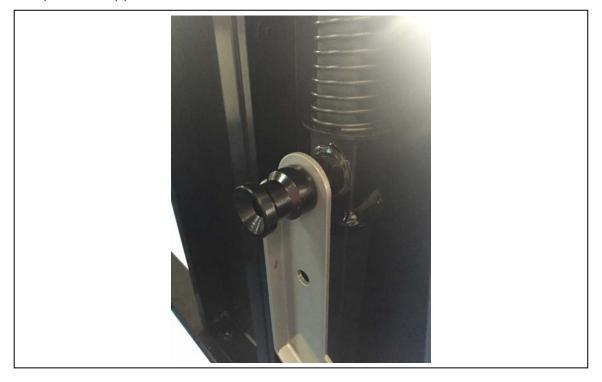


Step Thirteen: Attach the two ends of the Octagon foot pedal to the nut on the foot pedal bar

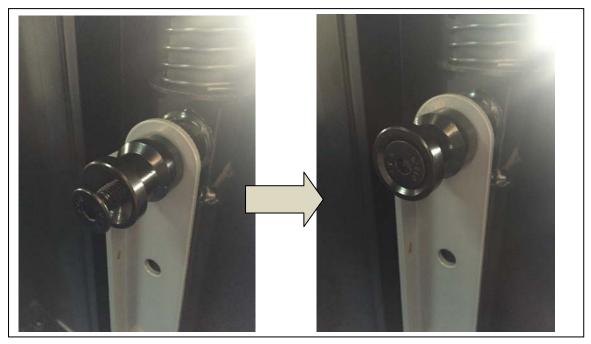




Step Fourteen: Secure the topping to the nut on the foot pedal bar. Follow this step on the opposite side.

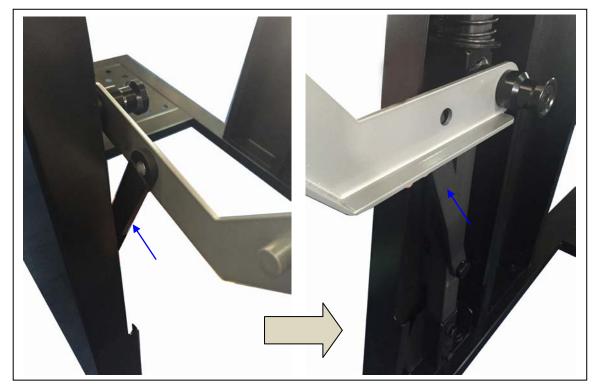


Step Fifteen: Secure the topping with (2) M8*30mm hex bolts

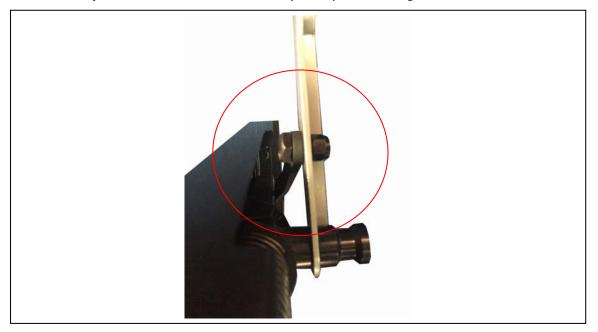




Step Sixteen: Align the bolt hole on the movable supporting brace on the foot peddle bar with the bolt hole on the octagon foot peddle.



Step Seventeen: Secure the movable supporting brace on the foot pedal bar with the octagon foot pedal using(2) 3/8"*46mm hex bolts. Make sure the bolt head is on the inside of the octagon handle. Adjust the tightness of this bolt accordingly. If this bolt is too tight, the Octagon foot pedal will not work smoothly. When too loose it will not pick up the Octagon drum.



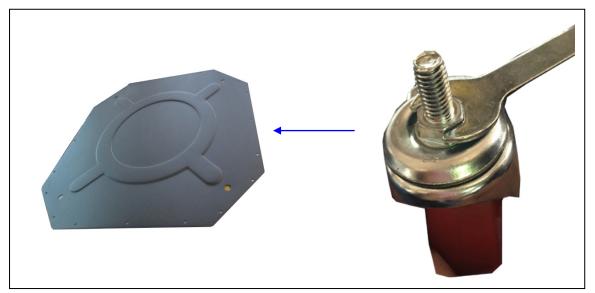
3HP Mobile Dust Cyclone Manual



Step Eighteen: Secure the Octagon drum lid to the cyclone funnel using (8) 5/16"*3/4" hex bolts, (16) 5/16"*OD18*2t flat washers and (8) 5/16" hex nuts.. Make sure to first attach all the bolts on before tightening the bolts. Failure to do will result in the drum lid not being able to align with the drum.



Step Nineteen: Assemble the wheels to the Octagon drum. Take the (4) 3" wheels and secure to Octagon drum base panel (N) using (8) 3/8"*OD23*2t flat washers and (4) 3/8" hex nuts.Use the flat wrench provided to fasten tightly.





Step Twenty: Take the Octagon drum side panels and assemble together, secure with (40) M4*12mm sheet metal thread bolts. Take note of the left and right panels; do not assemble the incorrect sides. Refer to the next step..



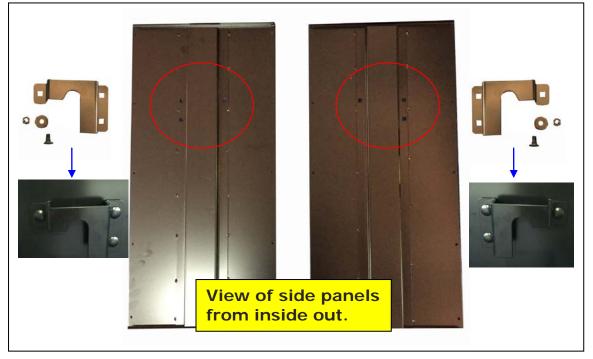
Step Twenty One: The panels have labels R and L on them to show you which panels should be bolted together to prevent any confusion. Please assemble them together per photo below.



3HP Mobile Dust Cyclone Manual



Step Twenty Two: Both the left and right side lift panels have three bolt holes on them. Take the matching side plate and secure to the outside of the panel. (Photo shown is the inside of the panel) using (6) 1/4"*1/2" carriage bolts, (6) 1/4"*OD19*2t flat washers and (6) 1/4" hex nuts.

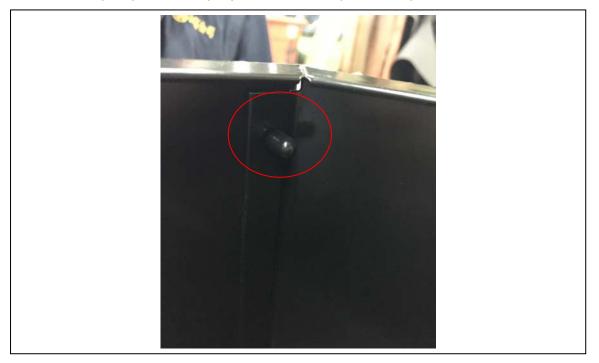


Step Twenty Three: Take the Octagon base panel with wheels and secure on to the bottom of the drum using M4*12mm sheet metal thread bolts.





Step Twenty Four: Take the plastic bolt end caps to cover all the bolt ends on the inside of the Octagon drum using (40) plastic end caps. This step is necessary to prevent any injuries caused by the sharp end of the bolts.



Step Twenty Five: Once completing the assembly, apply silicone to the inside of the drum including the base to seal and prevent air leakages and air flow loss.

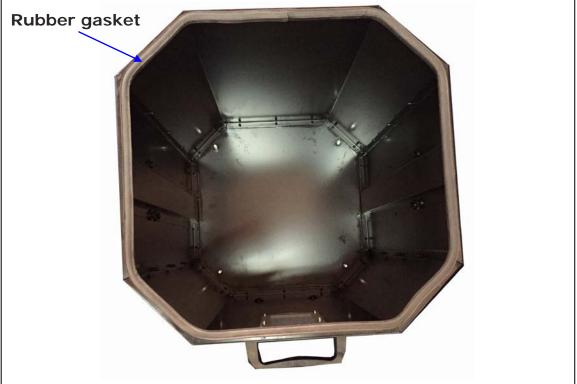




Step Twenty Six: Attach the handles to the top and bottom end on the front panel with the window display using (4) flat head Philip bolt, (4) 5/16"*OD23*2t flat washers and (4) 5/16" hex nuts.



Step Twenty Seven: Attach the rubber gasket to the top inner edges of the Octagon drum. The wider end of the gasket goes up. You will need tin snips to trim any excess rubber gasket after completing the seal.



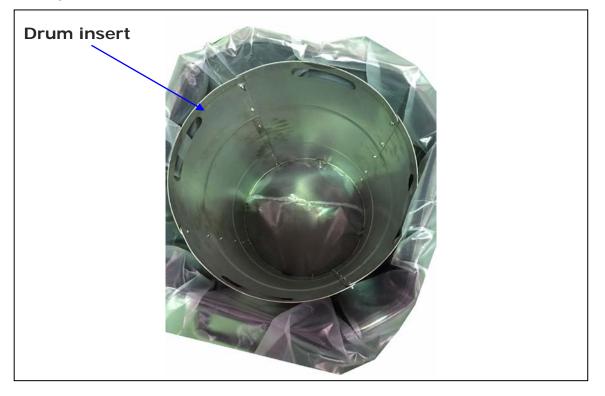
3HP Mobile Dust Cyclone Manual



Step Twenty Eight: Insert the plastic bag inside the Octagon drum. Open and spread out the plastic bag to the corners and edges



Step Twenty Nine: Place the drum insert inside over the plastic bag in the Octagon drum.

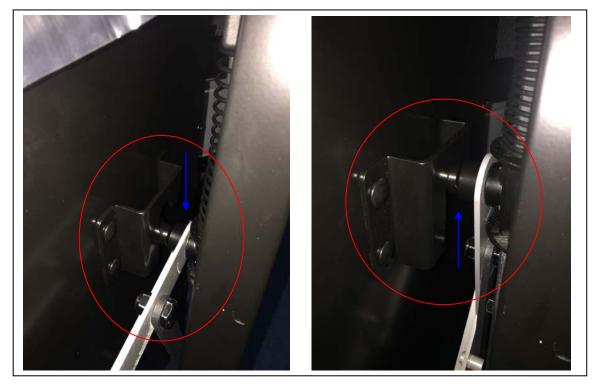




Step Thirty: Lift the foot peddle bar. Align the Octagon drum window to the center point of the drum lid and push the drum in. Lower the foot peddle bar (s) to seal the drum tight for normal machine operation.



Step Thirty One: Make sure when aligning the drum that both the left and right side lift plates are over the topping on the foot peddle bar assembly before lifting the foot peddle bar up. When not aligned, the drum will not be fully sealed and will interfere with the air flow.

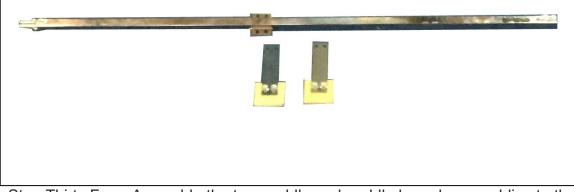




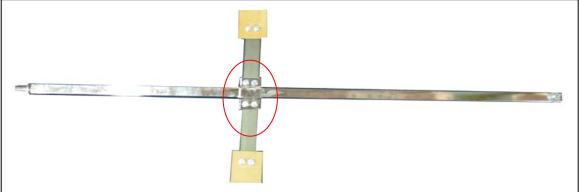
Step Thirty Two: Install the Remote Switch Box to the switch plate on the motor using (4) 1/4"*3/4" hex bolts and (4) 1/4"*OD19*2t flat washers.



Step Thirty Three: Take the paddle and paddle branch and assemble together using (4) 1/4"*5/8" hex bolts, (8) 1/4"*OD13*1t flat washers and (4) 1/4" hex nuts.

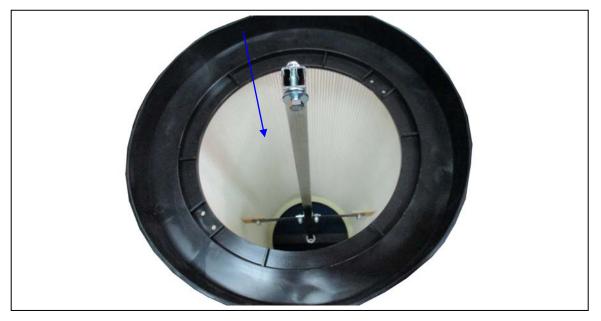


Step Thirty Four: Assemble the two paddle and paddle branch assemblies to the rotation shaft using (4) 1/4"*5/8" hex bolts, (8) 1/4"*OD13*1t flat washers and (4) 1/4" hex nuts.





Step Thirty Five: Insert the rotation shaft assembly into the canister filter. Slightly bend the paddles to get them into the canister filter.

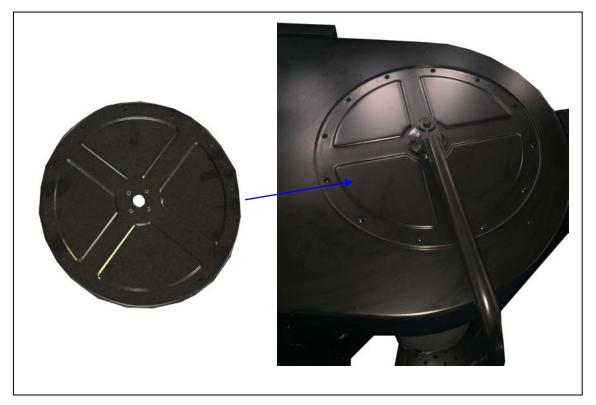


Step Thirty Six: Assemble the canister filter to the dust chute. Tighten the band clamp and adjust the tightness accordingly to ensure the canister filter is tightly fitted onto the dust chute.

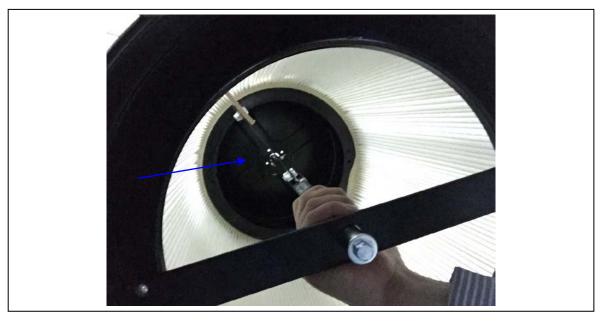




Step Thirty Seven: Attach the canister cover plate to the dust chute using (12) 3/16"*1/2" sheet metal thread bolts.

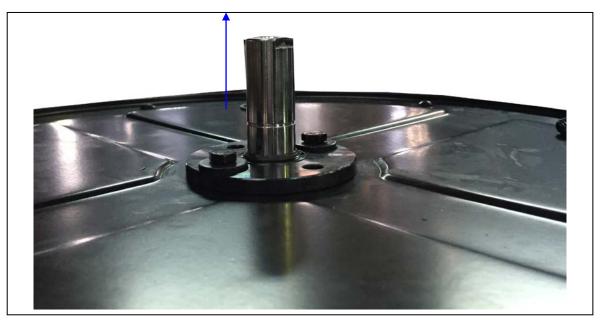


Step Thirty Eight: From the bottom of the canister filter, push the rotation shaft through the hole in the middle of the canister cover plate.

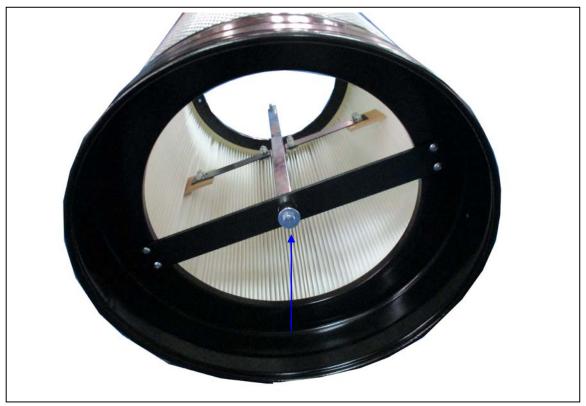




Step Thirty Nine: While holding the rotation shaft above the hole, insert the bearing onto the rotation shaft and pushing it down to the canister cover plate. This will fix the rotation shaft in place and you will not need to keep holding it up. Secure the bearing using (4) 1/4"*3/4" hex bolts and (4) 1/4"*OD19*2t flat washers.



Step Forty: Secure and tighten the (1) 5/16"*3/4" and (1) 5/16"*OD23*2t flat washer on the rotation shaft base.





Step Forty One: Attach and secure the rotation crank to the top of the rotation shaft using (1) 5/16"*3/4" hex bolt and (1) 5/16"*OD30*3t flat washer.



Step Forty Two: All the assembly steps have been completed.



3HP Mobile Dust Cyclone Manual



MAINTENANCE PROCEDURES

CLEANING THE FILTER

To ensure proper operation of this Mobile Dust Cyclone, the HEPA canister filter must have adequate air flow. This means the filter must be regularly maintained by carefully blowing the filter clean using compressed air and an air gun to release built-up particulates trapped between the filter pleats.

For heavy duty users, it is recommended to use compressed air on a regular basis to maintain maximum filtration efficiency and longer life span of the filter.

Using the Filter Cleaner Crank

The filter cleaner crank knocks dust particulate and small debris from the pleated filter and into the filter bag.

To keep your machine in good working condition, it is recommended that you use the filter cleaner crank to clean the filter after every use.

To clean the filter using the crank simply rotate the crank handle clockwise four or five rotations.

Using Compressed Air

DISCONNECT MACHINE FROM POWER!

For heavy duty users, it is recommended to use compressed air on a weekly basis to maintain maximum filtration efficiency and longer life span of the filter.

REMOVING THE CANISTER FILTER

- 1. Follow the steps twenty nine to thirty four in reverse to remove the canister filter.
- 2.
- 3. With the canister filter removed use a compressed air gun to thoroughly clean between the pleats, both inside and outside.

RE-ASSEMBLING THE CANISTER FILTER AFTER CLEANING

1. With the aid of another person, carefully re-insert the canister filter repeating steps twenty nine to thirty four.



EMPTYING OR REPLACING THE FILTER BAG

Periodically check the filter bag, if it is more than one third full, it is recommended that you empty it.

NOTE: If the filter bag gets too full, the weight may force it to pull away from the band clamp, exposing the user to potentially harmful particulates.

- 1. Release the spring-loaded band clamp at the bottom of the filter and remove the filter bag.
- 2. Empty or replace the filter bag and re-attach using the spring-loaded band clamp.

EMPTYING THE DRUM

Periodically inspect the contents of the drum and empty as needed. To inspect the contents of the drum:

- 1. Raise the drum foot peddle bar to lower the drum to the floor.
- 2. Roll it away from the machine, inspect and empty as needed.

ROUTINE INSPECTION

It is a good idea to routinely inspect any quality woodworking tool in order to keep it in optimum condition. This includes inspecting all hardware for tightness, ensuring the filter is clean, and cleaning debris and grime from any surfaces and moving parts.



TROUBLESHOOTING GUIDE

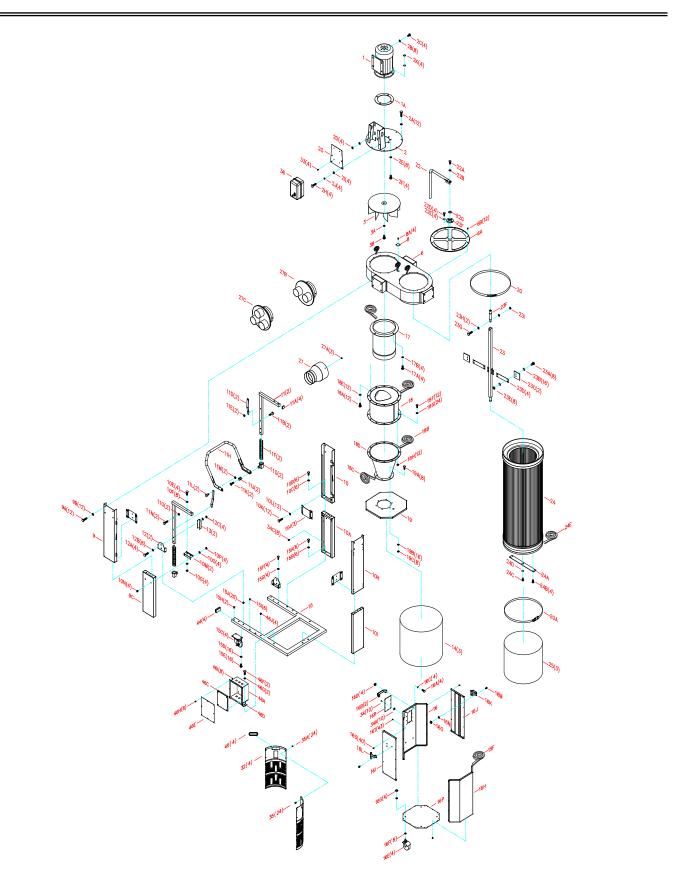
IROUBLESHOUTING GUIDE				
Symptom	Possible Cause	Possible Solution		
Machine	Power supply switched	Ensure power supply is ON and		
does not	OFF or is faulty.	has the correct voltage.		
start or a breaker trips.	Wall fuse/circuit breaker is blown/tripped.	Ensure adequate circuit size; install inlet restrictor, replace weak breaker.		
	Faulty remote control.	Replace batteries; ensure un- obstructed line-of-sight and signal range.		
	Remote receiver is faulty.	Inspect receiver circuit board; replace if faulty.		
	Incorrectly wired motor connection.	Rewire or call certified service technician or electrician.		
	On-board circuit breaker is tripped.	Allow motor to cool, improve ventilation, press reset button.		
	Wiring is open/has high resistance.	Check for broken wires or poor connections, repair as necessary.		
		Replace switch.		
	Faulty power switch.	Test/repair/replace.		
	Motor is at fault.			
Excessive	Loose component.	Inspect and tighten all bolts/nuts.		
vibration or noise during operation.	Loose or broken motor	Tighten or replace as needed.		
	mount.			
	Motor fan hitting fan cover.	Check fan and cover; replace as needed.		
	Bad motor bearings.	Rotate shaft manually, check for grinding or loose shaft, replace bearings if needed.		



	•	
Loud, repetitive	Machine is on uneven surface.	Stabilize on a flat surface.
noise, or excessive vibration coming from cyclone	Damaged/Unbalanced impeller.	Inspect impeller for dents, bends, loose fins. Replace if needed.
	Loose connections.	Check and re-tighten all fasteners.
	Impeller is loose.	Replace the motor and impeller.
	Motor fan hitting fan cover.	Check fan and cover; replace as needed.
Dust cyclone	Canister end cap is full.	Empty canister end cap.
does not adequately collect dust	Filter is dirty.	Clean filter.
or chips;	Restricted duct line.	Clean inlet splitter.
poor performance.	Suction route is too long or has too many sharp bends.	Move machine closer to the point of suction, and rerun ducts to eliminate sharp bends.
	Wet lumber is clogging ducts.	Use lumber with less than 20% moisture content.
	Leaks in the duct work or too many open ports.	Repair all duct leaks and close any ports not being used.
	Inadequate velocity in the main suction line.	Increase velocity by opening 1 or 2 more blast gates to different branch lines.
	Wrong size ducting/ports used.	Re-size and re-install ducts and fittings.
Sawdust being blown into the air	Band clamp or end cap is not secure.	Re-install ensuring a tight fit.
from the dust cyclone	Loose or damaged seals.	Replace seals and gaskets.

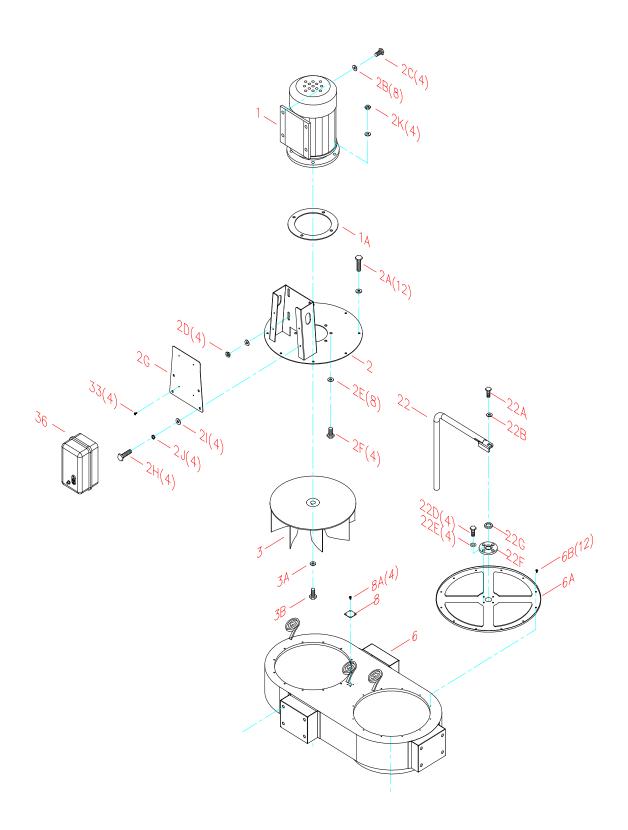


Parts Breakdown



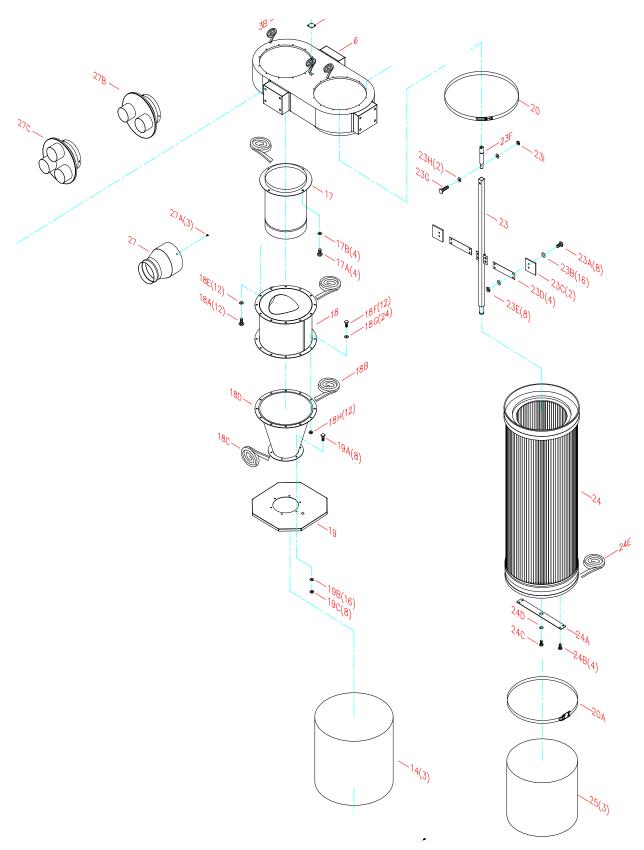


SECTION A (Close up view)

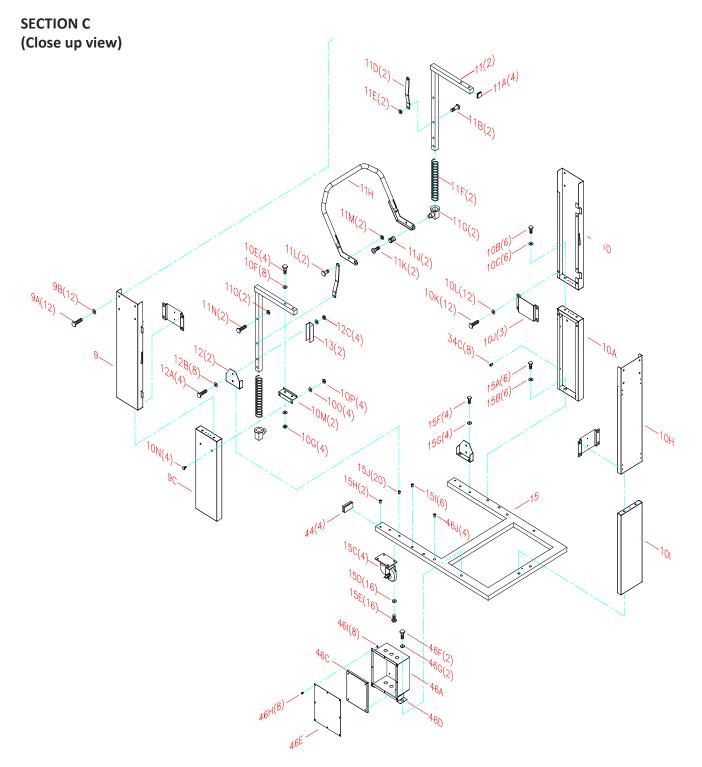




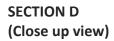
SECTION B (Close up view)

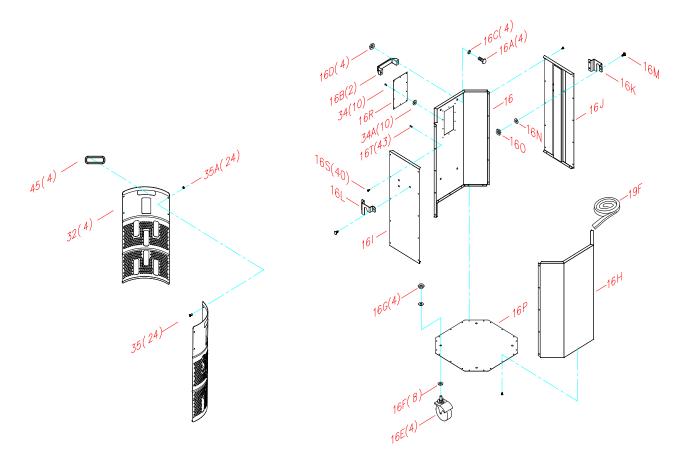














Part List

Ref No	Part Name	Description	Q'TY
1	MOTOR	3HP/415V/50Hz/3Phase	1
1A	MOTOR GASKET		1
2	MOTOR SUPPORT BASE		1
2A	HEX LOCK BOLT	5/16"*5/8"	12
2B	FLAT WASHER	3/8"*OD23*2t	8
2C	HEX BOLT	3/8"*1"	4
2D	HEX NUT	3/8"	4
2E	FLAT WASHER	3/8"*OD23*2t	4
2F	HEX BOLT	3/8"*1-1/4"	4
2G	SWITCH PLATE		1
2H	HEX BOLT	1/4"*3/4"	4
21	FLAT WASHER	1/4"*OD19*1t	4
2К	LOCK WASHER	3/8"	4
3	FAN	Ø15.5"	1
3A	FLAT WASHER	3/8"*OD45*3t	1
3B	HEX BOLT	3/8"*1"	1
б	DUST CHUTE		1
6A	CANISTER COVER PLATE		1
6B	SHEET METAL THREAD BOLT	3/16"*1/2"	12
8	COVER PLATE		1
8A	SHEET METAL THREAD BOLT	M4*12mm	4
9	TOP UPRIGHT SUPPORT	TWO DOT	1
9A	HEX BOLT	5/16"*3/4"	12
9B	FLAT WASHER	5/16"*OD18*2t	12

LAGUNA

Ref No	Part Name	Description	Q'TY
9C	LOWER UPRIGHT SUPPORT	TWO DOT	1
10	TOP UPRIGHT SUPPORT	TWO DOT	1
10A	LOWER UPRIGHT SUPPORT	TWO DOT	1
10B	HEX BOLT	5/16"*3/4"	6
10C	FLAT WASHER	5/16"*OD18*2t	6
10E	HEX BOLT	5/16"*1-3/4"	4
10F	FLAT WASHER	5/16"*OD18*2t	8
10G	HEX NUT	5/16"	4
10H	TOP UPRIGHT SUPPORT	ONE DOT	1
101	LOWER UPRIGHT SUPPORT	ONE DOT	1
10J	UPRIGHT SUPPORT REINFORCEMENT PLATE		3
10K	HEX BOLT	5/16"*3/4"	12
10L	FLAT WASHER	5/16"*OD18*2t	12
10M	FOOT PEDDLE BAR SUPPORT		2
10N	CARRIAGE BOLT	5/16"*1/2"	4
100	FLAT WASHER	5/16"OD18*2t	4
10P	HEX NUT	5/16"	4
11	FOOT PEDDLE BAR		2
11A	PLUG	25*25	4
11B	HEX BOLT	3/8"*46mm	2
11D	MOVEABLE SUPPORT BRACE	208*20*21	2
11E	HEX LOCK NUT	3/8"	2
11F	SPRING	Ø42*242L	2
11G	SKID BLOCK		2
11H	OCTAGON DRUM FOOT PEDDLE	520*226*350	1

Ref No	Part Name	Description	Q'TY
11J	TOPPING	Ø24*30	2
11K	HEX BOLT	M8*30mm	2
11L	HEX BOLT	3/8"*21mm	2
11M	HEX LOCK NUT	3/8"	2
11N	HEX BOLT	3/8"*1-1/2"	2
110	HEX LOCK NUT	3/8"	2
12	TRIANGULAR SUPPORT PLATE	170*102*28	2
12A	HEX BOLT	5/16"*1-3/4"	4
12B	FLAT WASHER	5/16"*OD18*2t	8
12C	HEX NUT	5/16"	4
13	LOWER SUPPORT PLATE	30*28*98	2
14	PLASTIC BAG	61*95CM	3
15	BASE		1
15A	HEX BOLT	3/8"*3/4"	6
15B	FLAT WASHER	3/8"*OD23*2t	6
15C	SWIVEL CASTER	4"	4
15D	FLAT WASHER	5/16"*OD18*2t	16
15E	HEX BOLT	5/16"*3/4"	16
15F	HEX BOLT	5/16"*3/4"	4
15G	FLAT WASHER	5/16"*OD18*2t	4
15H	RIVET NUT	1/4"	2
15I	RIVET NUT	3/8"	6
15J	RIVET NUT	5/16"	20
16	OCTAGON DRUM FRONT PANEL		1
16A	FLAT HEAD PHILIP BOLT	5/16"*3/4"	4

Ref No	Part Name	Description	Q'TY
16B	HANDLE		2
16C	FLAT WASHER	5/16"*OD23*2t	4
16D	HEX NUT	5/16"	4
16E	DRUM CASTER	3"*3/8"	4
16F	FLAT WASHER	3/8"*OD23*2t	8
16G	HEX NUT	3/8"	4
16H	OCTAGON DRUM BACK PANEL		1
16I	OCTAGON DRUM RIGHT PANEL		1
16J	OCTAGON DRUM LEFT PANEL		1
16K	LEFT SIDE PLATE		1
16L	RIGHT SIDE PLATE		1
16M	CARRIAGE BOLT	1/4"*1/2"	6
16N	FLAT WASHER	1/4"*OD19*2t	6
160	HEX NUT	1/4"	6
16P	OCTAGON DRUM BASE PANEL		1
16R	WINDOW		1
16S	THREAD BOLT	M4*12mm	40
16T	PLASTIC BOLT END CAP		43
17	INTAKE CYLINDER	9"	1
17A	HEX BOLT	5/16"*5/8"	4
17B	FLAT WASHER	5/16"*OD18*2t	4
18	CYCLONE BARREL		1
18A	HEX BOLT	5/16"*3/4"	12
18B	FOAM TAPE	3*6mm*10M	1
18D	CYCLONE FUNNEL		1

Ref No	Part Name	Description	Q'TY
18E	FLAT WASHER	5/16"*OD18*2t	12
18F	HEX BOLT	5/16"*3/4"	12
18G	FLAT WASHER	5/16"*OD18*2t	24
18H	HEX NUT	5/16"	12
19	OCTAGON DRUM LID		1
19A	HEX BOLT	5/16"*3/4"	8
19B	FLAT WASHER	5/16"*OD18*2t	16
19C	HEX NUT	5/16"	8
19D	PLUG	MSP-16	1
19E	NUT	AGL-16	1
19F	RUBBER GASKET	165CM	1
20	BAND CLAMP	Ø400	1
20A	SPRING BAND CLAMP	Ø400	1
22	ROTATION CRANK		1
22A	HEX BOLT	5/16"*3/4"	1
22B	FLAT WASHER	5/16"*OD30*3t	1
22D	HEX BOLT	1/4"*3/4"	4
22E	FLAT WASHER	1/4"*OD19*2t	4
22F	BEARING	Ø70* Ø20.5*7t	1
22G	SEAL		1
23	ROTATION SHAFT		1
23A	HEX BOLT	1/4"*5/8"	8
23B	FLAT WASHER	1/4"*OD13*1t	16
23C	PADDLE		2

Ref No	Part Name	Description	Q'TY
23D	PADDLE BRANCH		2
23E	HEX LOCK NUT	1/4"	8
23F	ROTATION SHAFT CONNECTION		1
23G	HEX BOLT	5/16"*1-1/2"	1
23H	FLAT WASHER	5/16"*OD18*2t	2
231	HEX LOCK NUT	5/16"	1
24	CANISTER FILTER	Ø400*900L	1
24A	ROTATION SHAFT BASE		1
24B	SHEET METAL PHILIP BOLT	3/16"*3/4"	4
24C	HEX BOLT	5/16"*3/4"	1
24D	FLAT WASHER	5/16"*OD23*2t	1
24E	FOAM TAPE	3*25mm*1.5M	1
25	PLASTIC BAG	Ø40*60cm	3
27C	INTAKE MANIFOLD	Ø8" BY Ø4" X 3PORT	1
27A	SHEET METAL BOLT	M4*12mm	3
32	DRUM INSERT		4
33	FLAT HEAD BOLT	M4*6mm	4
34	RIVET	3-2	10
34A	FLAT WASHER	2.7"*OD6*1.5t	10
34C	RIVET NUT	1/4"	8
34D	RIVET NUT	5/16"	18
35	ROUND HD BOLT	3/16"*1/2"	24
35A	NUT	3/16"	24
36	CONTROL BOX		
44	RUBBER PLUG		1



Ref No	Part Name	Description	Q'TY
45	RUBBER HANDLE FOR DRUM INSERT		4
46A	CONTROL BOX-1		1
46B	CONTROL BOX-2		2
46C	CONTROL BOX-3		1
46D	CONTROL BOX BASE SUPPORT		1
46E	COVER PLATE		1
46F	HEX BOLT	3/8"*3/4"	2
46G	FLAT WASHER	3/8"*OD23*2t	2
46H	ROUND HD BOLT	3/16"	8
46I	HEX NUT	3/8"	8
46J	RIVET	MG-20	4



NOTES



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