

MODEL G0440/G0441 2 HP & 3 HP CYCLONE DUST COLLECTORS

OWNER'S MANUAL

(For models manufactured since 03/12)



COPYRIGHT © APRIL, 2005 BY GRIZZLY INDUSTRIAL, INC. REVISED MARCH, 2012 (KN) WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.

#TR7027 PRINTED IN TAIWAN



This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.

WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures 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 those dust masks that are specially designed to filter out microscopic particles.

Table of Contents

INTRODUCTION2	SECTION 4: DESIGNING THE
Manual Accuracy2	General
Contact Info2	Duct Material
Machine Description2	Metal Duct
Identification3	Flexible Duct
Glossary Of Terms4	System Design
G0440 Machine Data Sheet5	Step 1. Decide Who Will D
G0441 Machine Data Sheet7	Step 2. Sketch Your Shop
SECTION 1: SAFETY9	Step 3. Sketch a Basic Due
Safety Instructions for Machinery9	Step 4. Determine Require
Additional Safety for Dust Collectors 11	Determining Main Line Duc
•	Determining Branch Line D
SECTION 2: POWER SUPPLY 12	Planning Drop Downs
Availability12	Multiple Dust Ports
Full-Load Current Rating12	Multiple Dust Ports
Circuit Requirements12	Two Machines on Same Bi
G0440 Circuit Requirements12	Calculating Duct Resistance
G0441 Circuit Requirements12	Example Materials List
Connection Type13	System Grounding
SECTION 3: SETUP14	SECTION 5: OPERATIONS
Needed for Setup14	Remote Control
Unpacking14	General
G0440 Inventory15	050710N 0 40050000150
G0441 Inventory	SECTION 6: ACCESSORIES.
Site Considerations17	SECTION 7: MAINTENANCE.
Wall Mounting18	Emptying Drum
Materials Needed for Standard Wood	Cleaning Filter
Framed Walls18	Rinsing Filter
Materials Needed for Concrete/Masonry	Removing/Replacing Filter
Wall19	050TION 0 05DVIOS
Assembly20	SECTION 8: SERVICE
Test Run26	Troubleshooting
	SECTION 9: WIRING
	Wiring Safety Instructions
	G0440 Wiring Diagram
	G0441 Wiring Diagram

SECTION 4: DESIGNING THE SYSTEM	
General	
Duct Material	
Metal Duct	
Flexible Duct	
System Design	
Step 1. Decide Who Will Design	
Step 2. Sketch Your Shop Layout	
Step 3. Sketch a Basic Duct Layout	
Step 4. Determine Required CFMs	
Determining Main Line Duct Size	
Determining Branch Line Duct Size	
Planning Drop Downs	
Multiple Dust Ports	
Multiple Dust Ports	. 32
Two Machines on Same Branch Line	
Calculating Duct Resistance	
Example Materials List	
System Grounding	35
SECTION 5: OPERATIONS	36
Remote Control	36
General	
SECTION 6: ACCESSORIES	37
SECTION 7: MAINTENANCE	30
Emptying Drum	
Cleaning Filter	
Rinsing Filter	
Removing/Replacing Filter	
SECTION 8: SERVICE	
Troubleshooting	42
SECTION 9: WIRING	43
Wiring Safety Instructions	
G0440 Wiring Diagram	
G0441 Wiring Diagram	
G0440/G0441 Electrical Components	
·	
SECTION 10: PARTS	
G0440 Main	
G0441 Main	49
WADDANTY AND DETUDNE	

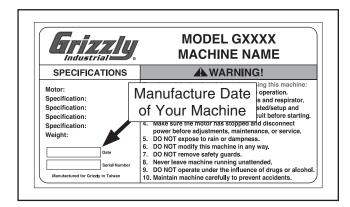
INTRODUCTION

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, your machine may not exactly match the manual. If you find this to be the case, and the difference between the manual and machine leaves you in doubt, check our website for the latest manual update or call technical support for help.

Before calling, find the manufacture date of your machine by looking at the date stamped into the machine ID label (see below). This will help us determine if the manual version you received matches the manufacture date of your machine.



For your convenience, we post all available manuals and manual updates for free on our website at **www.grizzly.com**. Any updates to your model of machine will be reflected in these documents as soon as they are complete.

Contact Info

We stand behind our machines. If you have any questions or need help, use the information below to contact us. Before contacting, please get the serial number and manufacture date of your machine. This will help us help you faster.

Grizzly Technical Support 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663 Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager P.O. Box 2069 Bellingham, WA 98227-2069 Email: manuals@grizzly.com

Machine Description

The Model G0440/G0441 is a 2-stage cyclone wood dust collector capable of collecting dust from multiple machines running simultaneously.

Cyclonic action separates the heavy dust and chips from the fine particles and drops them into the steel collection drum. Any remaining fine dust travels past the impeller and is trapped by the pleated cartridge filter. With the use of the cable and pulley system on the outside of the filter assembly, the caked dust is brushed down into the collection bag.

The machine is controlled by the remote magnetic switch mounted to it or by the IR remote controller—each control includes timer options.



Identification

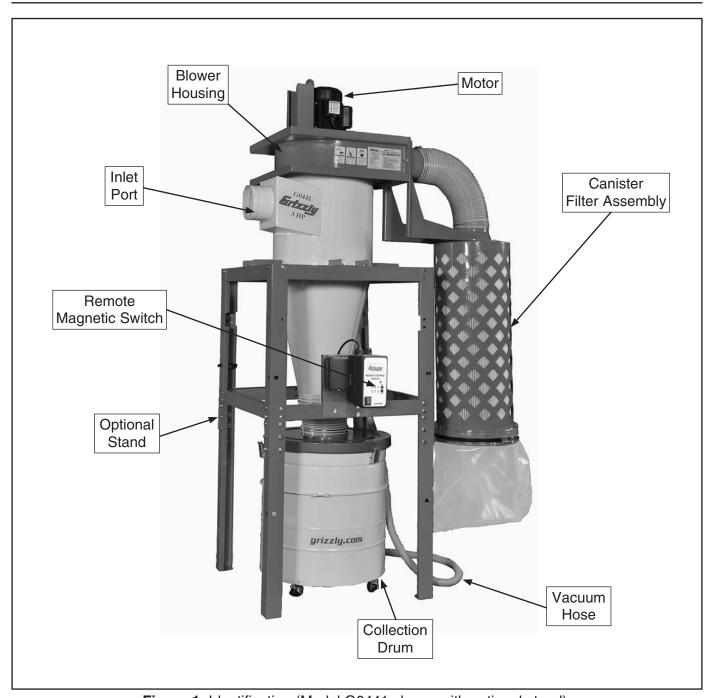
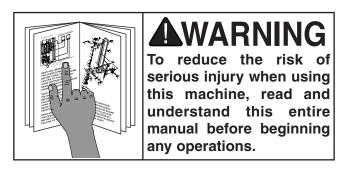


Figure 1. Identification (Model G0441 shown with optional stand).





Glossary Of Terms

The following is a list of common definitions, terms and phrases that relate to dust collection and dust collectors in general. To get the most out of this manual, familiarize yourself with these terms before reading.

- Air Suction Capacity: The maximum volume of air (rated in CFM) that a dust collector can move, at the inlet, when fully assembled and not connected to any ducting.
- **Branch Line:** A secondary length of duct that connects a dust-producing machine to the *Main Line* of a permanent dust collection system. The minimum recommended *Velocity* for branch lines is 4000 FPM.
- **Collection Bag/Drum:** The part of the dust collector that holds the majority of captured dust.
- **CFM (Cubic Feet per Minute):** A measurement describing the volume of air that moves through an area in one minute. CFM = Velocity (FPM) x Cross-Sectional Area of Duct (ft.²).
- **Cyclone:** A type of two-stage dust collector that uses centrifugal force to remove large dust particles before they can reach the filter.
- **Duct (Ducting):** Metal/plastic pipe or hose that connects the dust collector to dust-producing machines. Typically available in rigid or flexible options.
- **Dust Collection System:** The entire assembly of dust collector, duct, and fittings used to capture dust from machines.
- **Dust Port/Hood:** The part of a dust-producing machine that connects to dust collection duct.
- **Filter:** The part of the dust collector that prevents the majority of suctioned dust from returning to the shop environment. Filters are rated by the size of fine dust (measured in microns) that can pass through them.
- Fittings (Y's, T's, Elbows, etc.): The various duct connections that allow the branch and main lines of a dust collection system to be routed from the machine to the dust collector.

- **Duct Grounding:** A method of using bare wire with plastic duct to safely dissipate static electricity buildup during operation.
- Main Line: The primary length of duct that connects the dust collector to the branch lines of a permanent dust collection system. The minimum recommended *Velocity* for main lines is 3500 FPM.
- Machine CFM Requirement: Indicates the minimum amount of airflow required at the dust port/hood of a dust-producing machine for adequate removal of the waste produced. Essentially, the performance required by the *Dust Collection System* after accounting for the drop in CFM from the static pressure loss of the duct line between the machine and the dust collector.
- **Powered Air Filter:** An independently operated machine that removes fine dust suspended in the air. Typically operated during and after dust-producing operations as a secondary method to improve the air quality in a shop.
- **Single-Stage Collector:** A type of dust collector where all collected chips and dust are expelled directly into the filter.
- **Static Pressure:** Expressed in units of inches of water, this describes the difference in pressure between the air inside and outside the dust collector. It is a measure of the suction created by the blower.
- **Two-Stage Collector:** A type of dust collector where large/heavy waste is captured in a separate container before the airflow reaches the filter. Benefits include longer operation times between filter maintenance or replacement.
- **Velocity:** The speed of airflow movement, measured in FPM (Feet Per Minute). Velocity = Volume (CFM) / Cross-Sectional Area of Duct (ft.²).





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL G0440 2 HP CYCLONE DUST COLLECTOR

Majalat	007 !!
Weight Width (side-to-side) x Depth (front-to-back) x Height	
Footprint (Length x Width)	
hipping Dimensions:	
Carton #1	
Type	
Content	
Weight	
Length x Width x Height	54 X 28 X 34 II
Carton #2	
Type	
Content	
Weight	
Length x Width x Height	50 x 20 x 20 ir
ectrical:	
Minimum Circuit Size	20 Am
Switch	Magnetic with Thermal Overload Protectio
Switch Voltage	
Plug Included	N
Main	
Туре	TEFC Class "F
Horsepower	
Voltage	
Prewired	
Phase	9
Amps	
Speed	
Cycle	
Number of Speeds	
Power Transfer	
Bearings	Snielded and Permanently Lubricate
ain Specifications:	
Operation	
Dust Collector Type	Cyclon
Filter Type	
Airflow Capacity	1354 CFM @ 2.5 in S.
Max Static Pressure	10.4 ir
Main Inlet Size	
Maximum Material Collection Capacity	
Canister Filtration	



Bag Information	
No of Lower Bags	1
Canister Information	
No of Canister Filters	1
Canister Filter Diameter	
	96 square ft.
Collection Drum Size	
Impeller Information	
Impeller Type	Radial Fin
Impeller Size	
Construction	
Lower Bag	
Canister	Spun Bond Polyester
Impeller	Steel, Riveted
Paint	Powder Coated
<u> </u>	11 Gauge Steel
	14 Gauge Steel
Collection Drum	Steel
Other	
Optional Stand	
Other Specifications:	
Country Of Origin	Taiwan
, ,	1 Year
•	ID Label
· · · · · · · · · · · · · · · · · · ·	83 - 85 dB
Sound Haining	

Features:

Reinforced Intake

Clear Disposable Plastic Collection Bags

Gentle Brush Cleaning Mechanism Inside Cartridge Filter

14 Gauge Steel Stand Available as an Option

Remote Control with Programmable Timer

Casters Mounted on Collection Drum for Easy Moving

Blower and Barrel Rotate 360 degrees for Inlet and Outlet Positioning

BIA Certified Cartridge Filter

Reinforced Motor Mount

Wall Mountable Blower Design





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL G0441 3 HP CYCLONE DUST COLLECTOR

\\\ - \ \ - \ \ - \ \ - \ \ \ \	2 "
Weight	
Width (side-to-side) x Depth (front-to-back) x Height Footprint (Length x Width)	
hipping Dimensions:	
Carton #1	
Туре	Cardboar
Content	
Weight	
Length x Width x Height	53 x 28 x 35 ir
Carton #2	
Type	Cardboar
Content	Caniste
Weight	55 lbs
Length x Width x Height	
ectrical:	
Minimum Circuit Size	40 Amn
Switch	•
Switch Voltage	•
Plug Included	
Main	
Type	
Horsepower	
Voltage	
Prewired	
Phase	9
Amps	
Speed Cycle	
Number of Speeds	
Power Transfer	
Bearings	
Dearings	
ain Specifications:	
Operation	
Dust Collector Type	Cyclon
Filter Type	Pleated Cartridg
Airflow Capacity	1654 CFM @ 2.0 in. S.F
Max Static Pressure	14.2 iı
Main Inlet Size	
Maximum Material Collection Capacity	7.4 cu. f
	0.2 - 2 micro



Bag Information		
No of Low	r Bags	1
Canister Inform	ition	
Canister F Canister F Filter Surfa	ter Diameterter Lengthce Area	
Impeller Informa	tion	
		Radial Fin 15-1/2 in.
Construction		
Canister Impeller Blower Ho Body	ısing	Clear Plastic Spun Bond Polyester Steel, Riveted 11 Gauge Steel 14 Gauge Steel Steel
Other		
Optional S	and	
Other Specifications:		
WarrantySerial Number Lo Awards Customer Assem	cationbly & Setup Time	Taiwan 1 Year Grizzly Data Plate American Woodworker Editor's Pick 2006 3 hours 83 - 85 dB

Features:

Reinforced Intake

Clear Disposable Plastic Collection Bags

Gentle Brush Cleaning Mechanism Inside Cartridge Filter

14 Gauge Steel Stand Available as an Option

Remote Control with Programmable Timer

Casters Mounted on Collection Drum for Easy Moving

Blower and Barrel Rotate 360 degrees for Inlet and Outlet Positioning

BIA Certified Cartridge Filter

Reinforced Motor Mount

Wall Mountable Blower Design



SECTION 1: SAFETY

AWARNING

For Your Own Safety, Read Instruction **Manual Before Operating this Machine**

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

Indicates an imminently hazardous situation which, if not avoided, Indicates an imminently nazardous side WILL result in death or serious injury.

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

ACAUTION Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the machine.

AWARNING Safety Instructions for Machinery

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine. Untrained users can be seriously hurt.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.

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 workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.

WEARING PROPER APPAREL. Do not wear clothing, apparel, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips which could cause a loss of workpiece control.

HEARING PROTECTION. Always wear hearing protection when operating or observiing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

MENTAL ALERTNESS. Be mentally alert when running machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.



AWARNING

DISCONNECTING POWER SUPPLY. Always disconnect machine from power supply before servicing, adjusting, or changing cutting tools (bits, blades, cutters, etc.). Make sure switch is in OFF position before reconnecting to avoid an unexpected or unintentional start.

APPROVED OPERATION. Untrained operators can be seriously hurt by machinery. Only allow trained or properly supervised people to use machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in wet or rainy locations, cluttered areas, around flammables, or in dark areas. Keep work area clean, dry, and well-lighted.

ONLY USE AS INTENDED. Only use machine for its intended purpose. Never modify machine for a purpose not intended by the manufacturer!

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

CHILDREN & BYSTANDERS. Keep children and bystanders a safe distance away from work area. Stop using machine if children or bystanders become a distraction.

REMOVE ADJUSTING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on machine—especially near moving parts. Verify removal before starting!

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. A secured workpiece protects hands and frees both of them to operate the machine.

FEED DIRECTION. Unless otherwise noted, feed work against the rotation of blades or cutters. Feeding in the same direction of rotation may pull your hand into the cut.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

GUARDS & COVERS. Guards and covers can protect you from accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly before using machine.

NEVER STAND ON MACHINE. Serious injury or accidental contact with cutting tool may occur if machine is tipped. Machine may be damaged.

STABLE MACHINE. Unexpected movement during operations greatly increases risk of injury or loss of control. Before starting, verify machines are stable and mobile base (if used) is locked.

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

UNATTENDED OPERATION. Never leave machine running while unattended. Turn machine *OFF* and ensure all moving parts completely stop before walking away.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. An improperly maintained machine increases risk of injury.

CHECK DAMAGED PARTS. Regularly inspect machine for damaged parts, loose bolts, misadjusted or mis-aligned parts, binding, or any other conditions that may affect safe operation. Always repair or replace damaged or mis-adjusted parts before operating machine.

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support Department at (570) 546-9663.



Additional Safety for Dust Collectors

AWARNING

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 workpiece 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.

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.

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 an 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.



SECTION 2: POWER SUPPLY

Availability

Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrican or qualified service personnel in accordance with all applicable codes and standards.



AWARNING

Electrocution, fire, or equipment damage may occur if machine is not correctly grounded and connected to the power supply.

Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

G0440 Full-Load Current Rating...... 14 Amps G0441 Full-Load Current Rating...... 22 Amps

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the requirements in the following section.

Circuit Requirements

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)



For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: The circuit requirements listed in this manual apply to a dedicated circuit—where only one machine will be running at a time. If this machine will be connected to a shared circuit where multiple machines will be running at the same time, consult a qualified electrician to ensure that the circuit is properly sized for safe operation.

G0440 Circuit Requirements

This machine is prewired to operate on a 220V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage	220V/240V
Cycle	60 Hz
Phase	Single-Phase
Circuit Rating	20 Amps

G0441 Circuit Requirements

This machine is prewired to operate on a 220V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage	220V/240V
Cycle	60 Hz
Phase	Single-Phase
Circuit Rating	40 Amps



Connection Type

A permanently connected (hardwired) power supply is typically installed with wires running through mounted and secured conduit. A disconnecting means, such as a locking switch (see following **Figure**), must be provided to allow the machine to be disconnected (isolated) from the power supply when required. This installation must be performed by an electrician in accordance with all applicable electrical codes and ordinances.

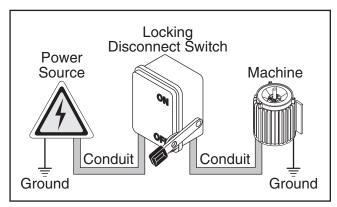


Figure 2. Typical setup of a permanently connected machine.

SECTION 3: SETUP



WARNING

This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!



AWARNING

Wear safety glasses during the entire setup process!



WARNING

This machine and its components are very heavy. Get lifting help or use power lifting equipment such as a forklift to move heavy items.

Needed for Setup

The following are needed to complete the setup process, but are not included with your machine:

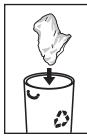
Des	scription	Qty
•	Assistants for Lifting Help	2
•	Optional Power Lifting Equipment	1
•	Wrench or Socket ½"	2
•	Wrench or Socket 9/16"	2
•	Phillips Screwdriver #2	1
•	Mounting Hardware (Page 18) As N	eeded
•	Medium-Strength Thread Locking	
	Compound1	Bottle

Unpacking

Your machine was carefully packaged for safe transportation. Remove the packaging materials from around your machine and inspect it. If you discover the machine is damaged, *please immediately call Customer Service at (570) 546-9663* for advice.

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of your shipment, inventory the contents.



AWARNING

SUFFOCATION HAZARD! Keep children and pets away from plastic bags or packing materials shipped with this machine. Discard immediately.



G0440 Inventory

The following is a description of the main components shipped with your machine. Lay the components out to inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Inve	entory (Figure 3)	Qty
Α.	Intake Cylinder	
B.	Cyclone Funnel	1
C.	Intake Barrel	
D.	Canister/Drum Collection Bags 1 E	
E.	Gray Flexible Hose 7" X 32"	1
F.	Motor/Blower Housing Assembly	
G.	Collection Drum Lid	
H.	Collection Drum	
l.	Collection Drum Seal	
J.	Clear Flexible Hose 9" x 8"	
K.	Hose Clamps 9"	2
L.	Outlet Port	1
Μ.	Filter L-Braces	
N.	Foam Tape Roll 3 x 6mm	
Ο.	Hose Clamps 7"	3
P.	Hardware Box	
	—Phillips Head Screws #10-24 x 3/8"	6
	—Hex Nuts #10-24	6
	—Drum Latches	
	—Roll of Foam Tape 3 x 15mm	1
Q.	Hardware Box	
	—Hex Bolts 5/16"-18 x 1"	
	—Hex Bolts 5/16"-18 x 3/4"	
	—Flat Washers 5/16"	
	—Fender Washers 5/16"	
	—Hex Nuts 5/16"-18	22
R.	Hardware Box	
	—Casters	
	—Hex Nuts 3/8"-16	
	—Lock Washers 3/8"	
	—Flat Washers 3/8"	
S.	Wall Mount Brace	
T.	Barrel Gaskets	
U.	Brace Gaskets	
V.	Outlet Gasket	
W.	,	
Χ.		2
Y.	Vacuum Hose 11/4" x 98"	
Z.	Collection Drum Vacuum Ring	1
AA	. Cyclone Vacuum Tube	1

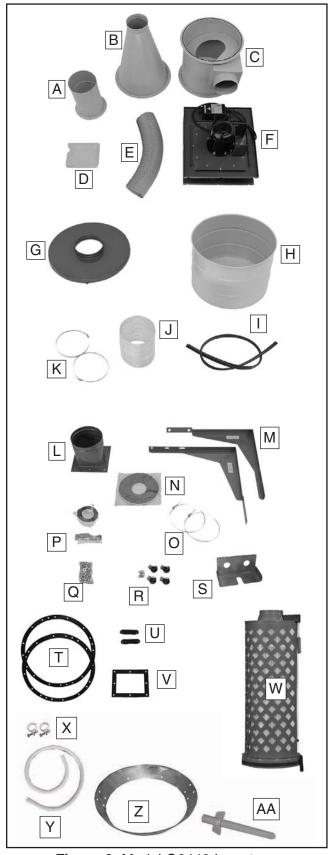


Figure 3. Model G0440 inventory.



G0441 Inventory

The following is a description of the main components shipped with your machine. Lay the components out to inventory them.

	, , ,	Qty
Α.	Intake Cylinder	
B.	Cyclone Funnel	
C.	Intake Barrel	
D.	Canister/Drum Collection Bags 1 E	
E.	Gray Flexible Hose 8" x 20"	
F.	Motor/Blower Housing Assembly	
G.	Upper Collection Drum	
H.	Muffler	
I.	Gray Flexible Hose 8" x 5"	1
J.	Lower Collection Drum	
K.	Clear Flexible Hose 9" x 13"	
L.	Hose Clamps 9"	
М.	Collection Drum Lid	
N.	Collection Drum Seal	1
Ο.	Outlet Port	1
P.	Filter L-Braces	
Q.	Foam Tape Roll 3 x 6mm	1
R.	Hose Clamps 8"	5
S.	Hardware Box	
	—Phillips Head Screws #10-24 x 3/8"	. 12
	—Hex Nuts #10-24	. 12
	—Drum Latches	
	-Roll of Foam Tape 3 x 15mm	1
T.	Hardware Box	
	—Hex Bolts 5/16"-18 x 1"	
	—Hex Bolts 5/16"-18 x 3/4"	. 24
	—Flat Washers 5/16"	. 68
	—Fender Washers 5/16"	4
	—Hex Nuts 5/16"-18	. 24
U.	Hardware Box	
	—Casters	4
	—Hex Nuts 3/8"-16	4
	—Lock Washers 3/8"	4
	—Flat Washers 3/8"	
V.	Wall Mount Brace	1
W.	Barrel Gaskets	2
	Brace Gaskets	
	Outlet Gasket	
	Canister Filter Assembly	
	Hose Clamps 11/4"	
AB.	Vacuum Hose 11/4" x 98"	1
	Collection Drum Vacuum Ring	
	Cyclone Vacuum Tube	

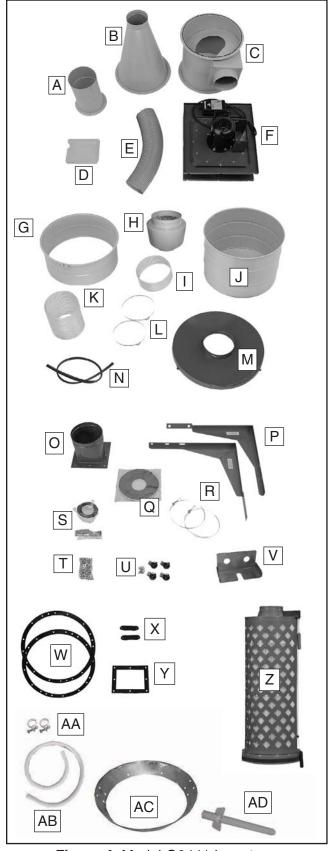


Figure 4. Model G0441 inventory.



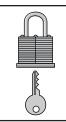
Site Considerations

Weight Load

Refer to the **Machine Data Sheet** for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

Space Allocation

Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. See below for required space allocation.



ACAUTION

Children or untrained people may be seriously injured by this machine. Only install in an access restricted location.

Physical Environment

The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave access to a means of disconnecting the power source or engaging a lockout/tagout device, if required.

Lighting

Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.

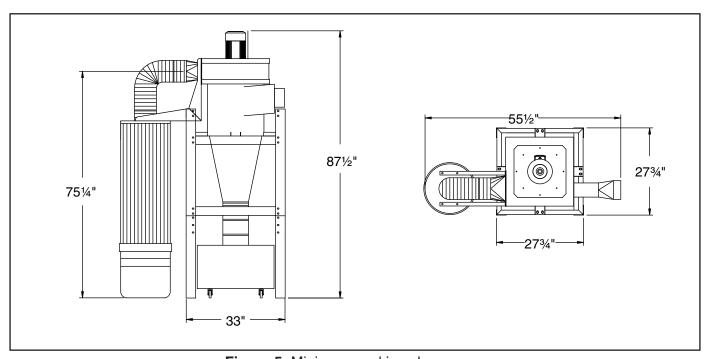


Figure 5. Minimum working clearances.



Wall Mounting

Before mounting, make sure you locate your dust collector away from any open flames or potential ignition sources, as fine dust can easily ignite.

If you are mounting your dust collector to a wood framed wall, you must build and install the wall mounting boards described below to support the heavy weight of the dust collector.

If you are mounting your dust collector to a concrete or masonry wall, skip to **Page 19**.

Materials Needed for Standard Wood Framed Walls

•	2x12 Board 36" Long for Wall Mounting	1
•	2x6 Board 36" Long for Wall Mounting	1
•	Level 4'	1
•	Pencil	1
•	Measuring Tape	1
•	Lag Bolts 3/8" x 5" (board/wall)	
•	Flat Washers 3/8" (board/wall)	
•	Lag Bolts 1/2" x 2" (machine/board)	.8*
•	Flat Washers 1/2" (machine/board)	.8*
•	Drill	
•	Drill Bit 1/4" (for 3/8" predrill)	1
•	Drill Bit 3/8" (for 1/2" predrill)	
•	Stud Finder	1

*Two of these fastener sets will be used in mounting the intake barrel brace during assembly.

To mount the motor/impeller housing to a wood framed wall:

 Secure the wall mounting boards to your wall, using the applicable layout diagrams for your machine and wall type (see Figures 6–7).

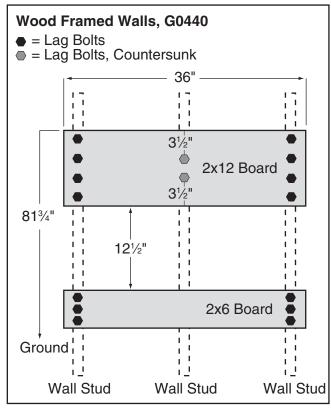


Figure 6. G0440 wall mounting board layout.

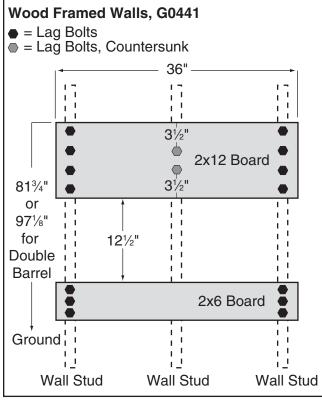


Figure 7. G0441 wall mounting board layout.



 Copy the mounting hole layout pattern from the motor housing (see Figures 8–9) to your wall mounting board, making sure the Top Row Mounting Hole Height is correct for your dust collector.

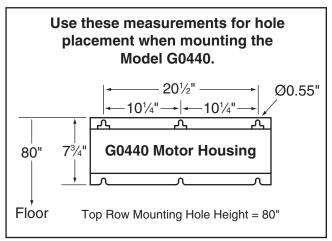


Figure 8. G0440 wall mounting layout.

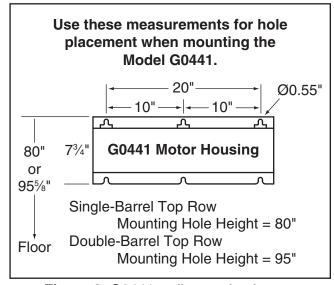


Figure 9. G0441 wall mounting layout.

3. Tighten ½" lag bolts into the mounting locations so they do not poke out more than ½" from the mounting board to the top of the head, but leave them out enough to slide the housing over. This will prepare you for the mounting instructions described in **Assembly** on **Page 20**.

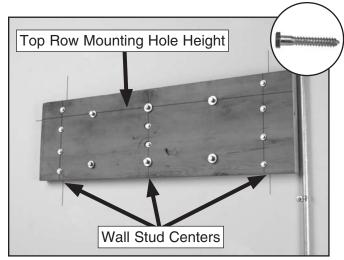


Figure 10. Board fastened to wall and ready for G0440 motor/blower housing assembly.

Materials Needed for Concrete/ Masonry Wall

•	Concrete Anchor Stud 1/2" x 23/4"	.8*
•	Hex Nuts 1/2"	.8*
•	Flat Washers 1/2"	.8*
•	Hammer Drill	1
•	Masonry Drill Bit 1/2"	1
•	Level 4'	1
•	Pencil	1
•	Measuring Tape	1

^{*}Two of these fastener sets will be used in mounting the intake barrel brace during assembly.

To mount the motor/impeller housing to a concrete or masonry wall:

- Copy the mounting hole layout pattern from the motor housing to your wall, making sure the Top Row Mounting Hole Height (see Figures 8–9) is correct for your dust collector.
- 2. Mount the anchor studs to the wall in the mounting hole locations for the motor/impeller housing. This will prepare you for the mounting instructions described in **Assembly** on **Page 20**.



Assembly



To assemble dust collector:

- With the help of assistants or power lifting equipment, lift the motor/blower housing assembly onto the hardware you mounted in the Wall Mounting section.
- 2. Attach the 3 x 6mm foam tape to the top of the intake cylinder, as shown in **Figure 11**.

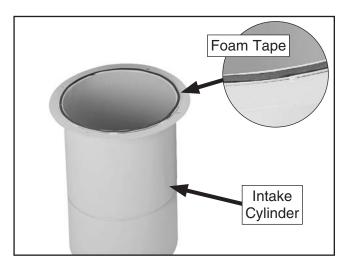


Figure 11. Foam tape stuck on intake cylinder.

3. Attach the intake cylinder to the bottom of the housing, as shown in **Figure 12**, using (4) $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " hex bolts and (4) $\frac{5}{16}$ " flat washers.

Note: Because this part of the dust collector will not be accessible after assembly, consider using medium strength thread locking compound on the bolts that secure the intake cylinder to the motor/blower housing assembly. This added measure will ensure that the fasteners will not come loose from vibration.

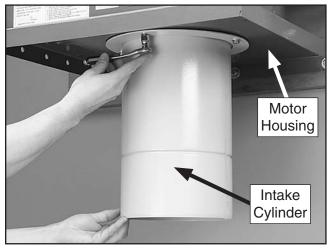


Figure 12. Attaching intake cylinder to the bottom of motor housing.

4. Temporarily attach the intake barrel to the housing with a barrel gasket in between, as shown in **Figure 13**, using (4) ⁵/₁₆"-18 x ³/₄" hex bolts and (4) ⁵/₁₆" flat washers—and only snug the bolts, rather than fully tighten them.

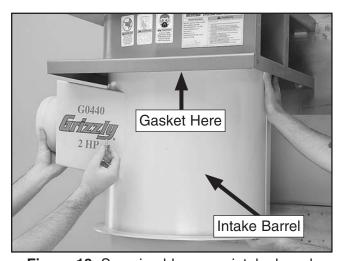


Figure 13. Securing blower on intake barrel.



5. Place the intake barrel brace in position and mark the location of the mounting holes (shown in Figure 14) with a small pencil, nail, or push pin.



Figure 14. Intake barrel brace positioned to mark the mounting holes.

- 6. Remove the intake barrel you temporarily attached in Step 4, drill holes where you marked in Step 5, and loosely install the wall mount brace to the wall with the remaining fasteners from the Wall Mounting procedure.
- 7. Use the (12) $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " hex bolts and (12) $\frac{5}{16}$ " flat washers to re-install the intake barrel to the housing with a barrel gasket in between, as shown in **Figure 13**.

Note: When installing the two bolts above the intake port, use duct tape on the bottom of your wrench to hold the bolts in place, as shown in **Figure 15**, to start the bolts easier.

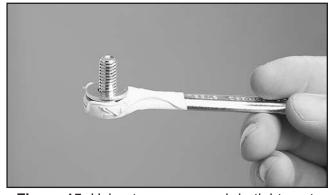


Figure 15. Using tape on wrench in tight spot.

8. Attach the cyclone funnel to the intake barrel with a barrel gasket between them, as shown in **Figure 16**, using (12) $\frac{5}{16}$ "-18 x 1" hex bolts, (24) $\frac{5}{16}$ " flat washers, and (12) $\frac{5}{16}$ "-18 hex nuts; also secure the wall mounting brace to the lip of the intake barrel/funnel assembly with the same hardware.

Note: At the places where you see 3 holes in a row, only use the center hole for this step. The two outside holes are only designed for use with the optional stand.

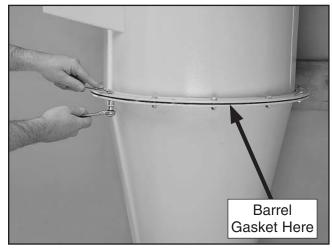


Figure 16. Cyclone funnel attached to intake barrel.

- **9.** Tighten the wall mounting brace to the wall.
- **10.** Attach the cyclone vacuum tube to the cyclone funnel with (4) $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " hex bolts and (4) $\frac{5}{16}$ " flat washers (see **Figure 17**).

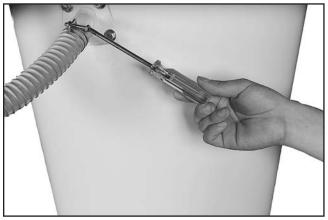


Figure 17. Cyclone vacuum tube and hose attachment.

11. Attach the outlet port and filter L-braces to the blower housing with the outlet gasket between the outlet port and the housing, as shown in **Figures 18–19**, using (8) ⁵/₁₆"-18 x 1" hex bolts, (16) ⁵/₁₆" flat washers, and (8) ⁵/₁₆"-18 hex nuts.

Note: On the G0441, one of the braces attaches directly to the housing with the following extra hardware: (2) $\frac{5}{16}$ "-18 x 1" hex bolts, (4) $\frac{5}{16}$ " flat washers, and (2) $\frac{5}{16}$ "-18 hex nuts.



Figure 18. Model G0440 outlet port and filter L-braces installed.

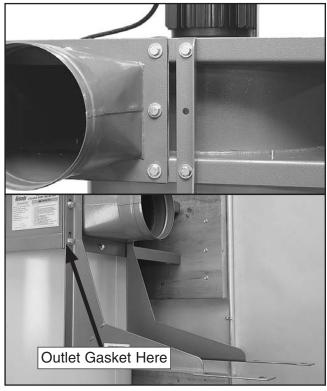


Figure 19. Model G0441 outlet port and filter L-braces installed.

12. Mount the filter to the L-braces with the brace gaskets between them, as shown in Figure 20, using (4) 5/16"-18 x 3/4" hex bolts and (4) 5/16" fender washers.



Figure 20. Mounting filters to the braces.

13. Model G0440:

a. Apply the 3 x 15mm foam tape to the edges of the outlet port and the canister adapter, as shown in **Figure 21**.

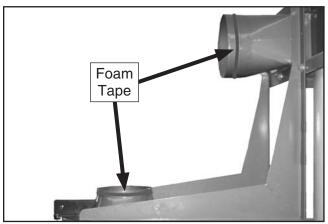


Figure 21. Foam tape applied to the outlet port and canister adapter (Model G0440).

b. Connect the gray flexible hose from the outlet port to the canister adapter and secure it in place with the two 7" hose clamps, as shown in **Figure 22**.

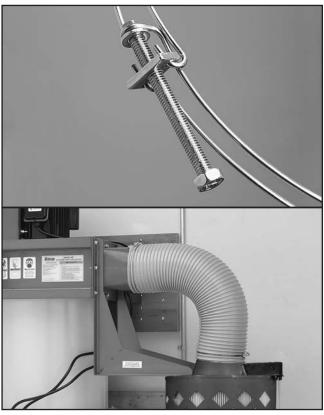


Figure 22. Gray hose properly installed (Model G0440).

Model G0441:

a. Apply the 3 x 15mm foam tape to the lips of the outlet port, canister adapter, and both ends of the muffler, as shown in Figure 23.

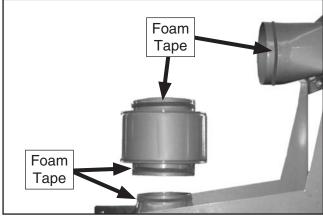


Figure 23. Foam tape applied to upper components (Model G0441).

b. Attach the 8" x 5" gray flexible hose between the canister adapter and the muffler with two 8" hose clamps, then attach the 8" x 20" gray flexible hose between the muffler and the outlet port with the remaining two 8" hose clamps (see Figure 24).

Note: It may be necessary to reposition the canister L-braces down one bolt hole or shorten the length of the longer piece of flexible hose to accommodate the bend in the hose.

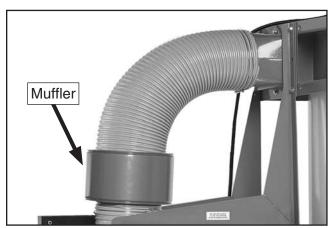


Figure 24. Muffler properly positioned between the two gray flexible hoses (Model G0441).

14. Attach the casters to the bottom of the lower collection drum, as shown in **Figure 25**, using the (4) 3%"-16 hex nuts, (8) 3%" flat washers, and (4) 3%" lock washers included in the box with the casters.



Figure 25. Casters attached to the lower collection drum.

Note—For the Model G0441 Only: If you plan to keep your machine under an 8' ceiling, skip Step 15.

15. Model G0441: Connect the upper and lower collection drums together and secure them with the included metal clamp and provided fasteners, as shown in **Figure 26.**

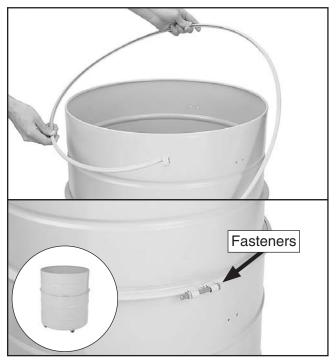


Figure 26. Installing metal clamp around collection drum.

16. Install the drum latches, as shown in Figure 27, with the (6) #10-24 x %" Phillips head screws and (6) #10-24 hex nuts included in the box with the drum latches. Make sure the hex nuts are on the outside of the drum so that they will not snag the plastic collection bag.

Note—For the Model G0441 Only: If you are using the collection drum at full height, use the extra (6) #10-24 Phillips head screws and hex nuts provided to plug the lower latch mounting holes.



Figure 27. Installing drum latches on collector drum.

17. Place the collection drum vacuum ring on the bottom of the collection drum (see **Figure 28**).

Note: During operation, this ring and the vacuum connection to the cyclone funnel will prevent the collection bag from collapsing.

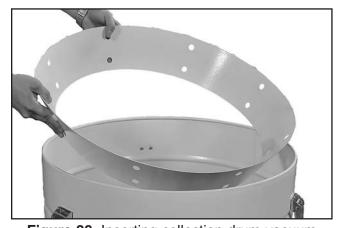


Figure 28. Inserting collection drum vacuum ring.

18. Insert the rubber seal over the top lip of the collection drum rim. Pay special attention to the direction of the seal, as shown in the Figure 29.

Tip: To keep the seal in place, you can use an adhesive applied to the rubber seal at approximately 1" intervals.

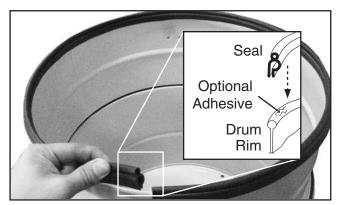


Figure 29. Installing canister seal.

19. Insert the larger of the plastic collection bags into the collection drum, place the lid on the collection drum and hook the latch over the lid, as shown in Figure 30, then clamp it in place.



Figure 30. Latch hooked over lid for clamping.

20. Move the collector drum under the dust collector and connect it to the cyclone funnel with the clear flexible hose and the two 9" hose clamps, as shown in **Figure 31**.



Figure 31. Drum attached to cyclone funnel with clear 9" hose.

21. Connect the vacuum hose to the cyclone funnel and collection drum vacuum tubes with (2) 11/4" hose clamps (see Figure 32).



Figure 32. Connecting the vacuum hose.

22. Fit the plastic canister collection bag over the bottom of the canister filter and clamp in place with the metal bag clamp, as shown in Figure 33.



Figure 33. Plastic collection bag clamped in place under filter.

23. Mount the switch on the funnel, as shown in **Figure 34**, with the (2) 5/16"-18 x 1" hex bolts, (4) 5/16" flat washers, and (2) 5/16"-18 hex nuts.



Figure 34. Switch mounted to funnel.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly and is ready for regular operation.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 42**.

If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

To test run the machine:

- 1. Make sure you have read the safety instructions at the beginning of the manual and that the machine is setup properly.
- **2.** Make sure all tools and objects used during setup are cleared away from the machine.
- Press the ON/OFF button to turn the machine ON.
- 4. Listen to and watch for abnormal noises or actions. The machine should run smoothly with little or no vibration or rubbing noises.
 - —Strange or unusual noises should be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.
- **5.** Press the TIMER button and cycle through each of the times to make sure the lights illuminate on the switch.
- Press the TIMER on the remote control and cycle through each of the times in the same manner as Step 5.
- **7.** Press the ON/OFF button on the remote control to make sure it is working properly.



SECTION 4: DESIGNING THE SYSTEM

General



ACAUTION

Always guard against static electrical build up by grounding all dust collection lines.

The Model G0440/G0441 works great as a central system for a small shop or a dedicated dust collector for large production machines.

When installing the dust collector be sure to put it in an out of the way location such as a corner or separate room. The dust collector is capable of collecting dust from up to three machines running simultaneously. Grizzly offers a complete line of dust collection accessories for setting up a stationary system. Additionally, Grizzly offers a complete guide book entitled *Dust Collection Basics*.

Whatever system you choose, always make sure there are no open flames or pilot lights in the same room as the dust collector. There is a risk of explosion if dust is dispersed into the air.

Duct Material

You have many choices regarding main line and branch line duct material. For best results, use metal duct for the main line and branch lines, then use short lengths of flexible hose to connect each machine to the branch lines.

Plastic duct is also a popular material for home shops. However, be aware that there is a fire or explosion hazard if plastic duct material is used for dust collection without being grounded against static electrical charge build-up. This topic will be discussed later in this section. Another problem with using plastic is that it is less efficient per foot than metal.



ACAUTION

Plastic duct generates static electrical buildup that can cause fire or shock. Properly ground it to reduce this risk.

Plastic Duct

The popularity of plastic duct is due to the fact that it is an economical and readily available product. It is also simple to assemble and easily sealed against air loss. The primary disadvantage of plastic duct for dust collection is the inherent danger of static electrical build-up.



Figure 35. Examples of plastic ducting components.



Metal Duct

Advantages of metal duct is its conductivity and that it does not contribute to static electrical charge build-up. However, static charges are still produced when dust particles strike other dust particles as they move through the duct. Since metal duct is a conductor, it can be grounded quite easily to dissipate any static electrical charges.

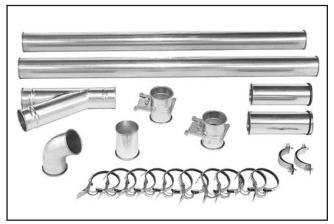


Figure 36. Examples of metal pipe and components.

There are a number of options when it comes to metal duct, but metal duct that is specially manufactured for dust collection is the best choice. When selecting your metal duct, choose high quality metal duct with smooth welded internal seams that will minimize airflow resistance. This type of duct usually connects to other ducts or elbows with a simple, self-sealing clamp, is very quick and easy to assemble, and can be readily dismantled and re-installed. This is especially important if you ever need to change things around in your shop or add more tools.

Avoid inferior metal duct that requires you to cut it to length and snap it together. This type of duct is time consuming to install because it requires you to seal all the seams with silicone and screw the components on the ends with sheet metal screws. Another disadvantage is the rough internal seams and crimped ends that unavoidably increase static pressure loss.

Flexible Duct

Flexible hose is generally used for short runs, small shops and at rigid duct-to-tool connections. There are many different types of flex hose on the market today. These are manufactured from materials such as polyethylene, PVC, cloth hose dipped in rubber and even metal, including steel and aluminum.

The superior choice here is metal flex hose that is designed to be flexible, yet be as smooth as possible to reduce static pressure loss.

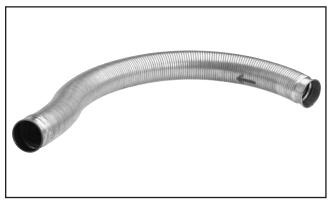


Figure 37. Example of flexible metal duct.

There are also many kinds of pure plastic flexible hose, such as non-perforated drainage type hose and dryer vent hose. Drainage type hose, while being economical, does not quite have the flexibility required for dust collection. The inside of the duct is also deeply corrugated and can increase the static pressure loss by as much as 50% over smooth wall duct. Dryer vent hose, while being completely flexible, is non-resistant to abrasion and has a tendency to collapse in a negative pressure system. We DO NOT recommend using dryer vent hose in your dust collection system.

If using flex-hose, you should choose one of the many types that are designed specifically for the movement of solid particles, i.e. dust, grains, and plastics. However, the cost of specifically designed flexible duct can vary greatly. Grizzly offers polyethylene hose, which is well suited for the removal of particulate matter, especially sawdust, since it is durable and completely flexible. Polyethylene is also very economical and available in a wide variety of diameters and lengths for most applications.



System Design

Step 1. Decide Who Will Design

For most small-to-medium sized shops, you can design and build the dust collection system yourself without hiring engineers or consultants. We have included some basic information here to get you started on a basic design.

If you have a large shop or plan to design a complicated system, we recommend doing additional research beyond this manual or seeking the help of an expert.

Step 2. Sketch Your Shop Layout

When designing a successful dust collection system, planning is the most important step. In this step, sketch a basic layout of your shop, including space requirements of different machines.

Before you get out your pencil and paper, we recommend you visit our FREE *Workshop Planner* available on our website at **www.grizzly.com**.

Our *Workshop Planner* will allow you to quickly and easily design and print a basic shop layout. Don't worry, non-Grizzly brand machines can be substituted with Grizzly machines for layout purposes. **Note:** *After you're finished, make sure to save your layout for later modification.*

Your sketch only needs the basic details of the shop layout, similar to the **Figure** below, including all your current/planned machines and your planned placement of the dust collector.

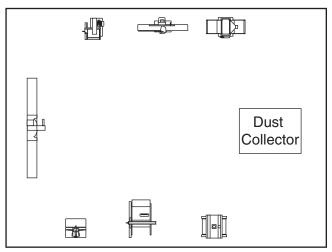


Figure 38. Basic sketch of shop layout.

Step 3. Sketch a Basic Duct Layout

For the next step, sketch how you will connect your machines to the dust collector. Consider these general guidelines for an efficient system:

- Machines that produce the most saw dust should be placed nearest to the dust collector (i.e. planers and sanders).
- Ideally, you should design the duct system to have the shortest possible main line and secondary branch ducts. See the figures below for ideas of efficient versus inefficient duct layouts.

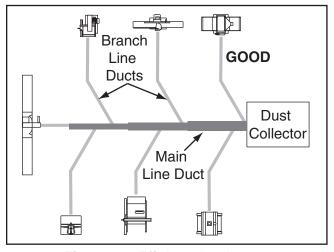


Figure 39. Efficient duct layout.

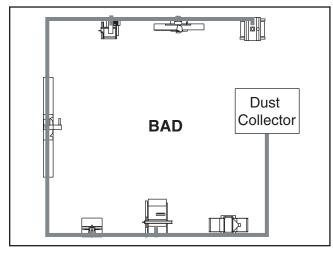


Figure 40. Inefficient duct layout.



- Directional changes should be kept to a minimum. The more directional change fittings you use directly increases the overall resistance to airflow.
- 4. Gradual directional changes are more efficient than sudden directional changes (i.e. use the largest corner radius possible when changing hose or pipe direction).
- Each individual branch line should have a blast gate immediately after the branch to control suction from one machine to another.
- The simpler the system, the more efficient and less costly it will be.

Step 4. Determine Required CFMs

Since each machine produces a different amount of sawdust, the requirements for the minimum amount of CFM to move that sawdust is unique to the machine (for example, a planer produces more sawdust than a table saw). Knowing this required CFM is important to gauging which size of duct to use.

Refer to the **Figure** below for a close estimation of the airflow each machine requires. Keep in mind that machines that generate the most sawdust should be placed closest to the dust collector. If the machine has multiple dust ports, the total CFM required is the sum of all ports.

Machine Dust Port Size	Approximate Required CFM
2"	98
2.5"	150
3"	220
4"	395
5"	614
6"	884
7"	1203
8"	1570
9"	1990
10"	2456

Figure 41. Approximate required airflow for machines, based on dust port size.

If the machine does not have a built-in dust port, use the following table to determine which size of dust port to install.

<u>Machine</u>	Average Dust Port Size
Table Saw	4"
1	v2"
1	er)4"
	5"
` ′	" and smaller)4"
Thickness Planer (14	6"
	4"
Router (mounted to t	able)2"
Bandsaw	4"
Lathe	4"
Disc Sander (12" and	d smaller)2"
Disc Sander (13-18")	4"
Belt Sander (6" and	smaller)2"
Belt Sander (7"-9")	3"
Edge Sander (6" x 80	O" and smaller)4"
Edge Sander (6" x 80	O" and larger)5"
,	nd smaller)2 x 4"
	nd larger)4 x 4"
`	' and smaller)5"
`	"-37" single head)2 x 6"
Widebelt Sander (24)	"-51" double head)5 x 4"

Figure 42. Dust port size and quantity per average machine.

Write the required CFM for each machine on your sketch, as shown in the figure below.

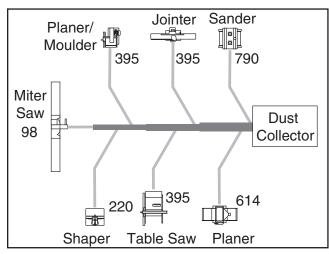


Figure 43. CFM requirements labeled for each machine.

Determining Main Line Duct Size

The general rule of thumb for a main line duct is that the velocity of the airflow must not fall below 3500 FPM.

For small/medium sized shops, using the inlet size of the dust collector as the main line duct size will usually keep the air velocity above 3500 FPM and, depending on your system, will allow you to keep multiple branches open at one time.

Mark your drawing, as shown in the figure below, but using the inlet size for your dust collector as the main line.

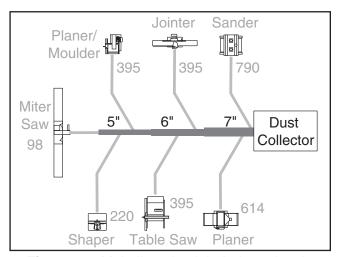


Figure 44. Main line size labeled on sketch.

Determining Branch Line Duct Size

The general rule of thumb for a branch line duct is that the velocity of the airflow must not fall below 4000 FPM.

For small/medium sized shops, using the dust port size from the machine as the branch line duct size will achieve the correct velocity in most applications. However, if the dust port on the machine is smaller than 4", make the branch line 4" and neck the line down right before the dust port.

Note: Systems with powerful dust collectors work better if multiple blast gates are left open. This also allows you to run two machines at once. Experiment with different combinations of blast gates open/closed to find the best results for your system.

Write your determined branch line sizes on your drawing, as shown in the following **Figure**.

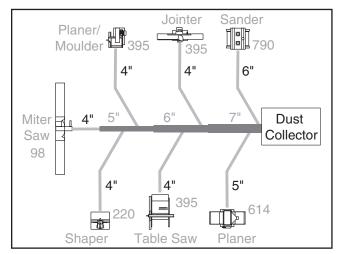


Figure 45. Branch line duct sizes labeled.

Planning Drop Downs

Plan all the drop downs for each machine with blast gates, as shown in the **Figure** below.

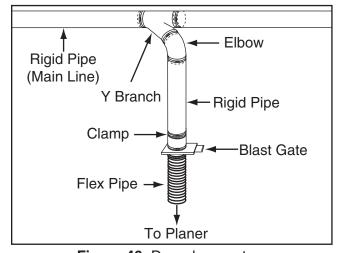


Figure 46. Drop down setup.

Multiple Dust Ports

If your machine has multiple dust ports, add the total CFM given for each dust port size from the table under **Step 4** (approximate required airflow) on the previous page. Refer to the **Table** below and find the CFM that is closest to your total to determine the correct branch size. Split the branch line just before the dust ports with matching duct sizes.



Multiple Dust Ports

If your machine has multiple dust ports, add the total CFM given for each dust port size from the table under **Step 4** (approximate required airflow) on the previous page. Refer to the **Table** below and find the CFM that is closest to your total to determine the correct branch size. Split the branch line just before the dust ports with matching duct sizes.

Two Machines on Same Branch Line

If both machines will run at the same time, add the total CFM given for each size from the table (approximate required airflow) under **Step 4** and match the branch line given below.

If both machines will never run at the same time, reference the machine with the biggest dust port in the **Table** below and add blast gates after the Y-branch to open/close the line to each machine.

Total CFM	Branch Line Size
400	4"
500	4"
600	5"
700	5"
800	6"
900	6"
1000	6"

Calculating Duct Resistance

Adding duct work, elbows, branches and any other components to a duct line increases airflow resistance (static pressure loss). This resistance can be minimized by using rigid (smooth) pipe and gradual curves, as opposed to flexible pipe and 90° elbows.

To help you think about this resistance, imagine riding a bicycle in a tunnel that is an exact replica of your duct work. If the inside of the tunnel is very bumpy (flexible pipe) and has a lot of sharp turns (90° elbows), it will take a lot more effort to travel from one end to the other.

The purpose of calculating the resistance is to determine if it is low enough from the machine to the dust collector to meet the given CFM requirement for the machine. Use the following tables to calculate the resistance of duct work.

Duct Dia.	Static P Loss Pe	ximate ressure r Foot of Pipe		I
	Main	Branch	Main	Branch
	Lines	Lines	Lines	Lines
	at 3500	at 4000	at 3500	at 4000
	/ FPM		FPM	FPM
2"	0.091 0.122		0.35	0.453
2.5"	0.08 0.107		0.306	0.397
3"	0.071 0.094		0.271	0.352
4"	0.057	0.075	0.215	0.28
5"	0.046	0.059	0.172	0.225
6"	0.037	0.047	0.136	0.18
7"	0.029	0.036	0.106	0.141
8"	0.023 0.027		0.08	0.108
9"	0.017 0.019		0.057	0.079

Fitting Dia.	90° Elbow	45° Elbow	45° Wye(Y)	90° Wye(Y)
3"	0.47	0.235	0.282	0.188
4"	0.45	0.225	0.375	0.225
5"	0.531	0.266	0.354	0.236
6"	0.564	0.282	0.329	0.235
7"	0.468	0.234	0.324	0.216
8"	0.405	0.203	0.297	0.189

Figure 47. Static pressure loss tables.

In most small/medium shops it is only necessary to calculate the line with the longest duct length or the most fittings (operating under the assumption that if the line with the highest resistance works, the others will be fine).

To calculate the static pressure of any given line in the system, follow these steps:

- Make a list of each size duct in the line, including the length, and multiply those numbers by the static pressure value given in the previous table.
- 2. List each type of elbow or branch and multiply the quantity (if more than one) by the static pressure loss given in the previous table.



3. Add the additional factors from the following-table to your list.

Additional Factors	Static Pressure
Seasoned (well used)	1"
Dust Collection Filter	'
Entry Loss at Large	2"
Machine Hood	2

Figure 48. Additional factors affecting static pressure.

 Total your list as shown in the example below to come up with your overall static pressure loss number for that line.

Note: Always account for a seasoned filter, so you don't end up with a system that only works right when the filter is clean.

Main Line 6" Rigid Pipe (0.037) at 20'	0.740
Branch Line 4" Rigid Pipe (0.075) at 10' 4" Flex Pipe (0.28) at 5'	0.750 1.400
Elbows/Branches 6" 45° Y-Branch 4" 45° Elbow	0.329 0.225
Additional Factors Seasoned Filter	1.000
Total Static Pressure Loss	4.444

Figure 49. Totaling static pressure numbers.

Note: When calculating static pressure loss to determine if multiple lines can be left open at the same time, only include the main line numbers once.

Compare the total static pressure loss for that line to the closest CFM given in Figure 51 for your dust collector on Page.

Example: A typical **Data Sheet Performance Curve** is illustrated in **Figure 50**. Find 4.4 on the Static Pressure axis (the amount of total static pressure loss calculated in **Figure 49**), then refer to the closest value on the CFM axis—approximately 1120 CFM.

The 1120 CFM for the static pressure loss of the line connected to the router is well above the 220 CFM requirement of that machine.

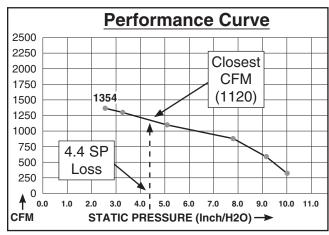
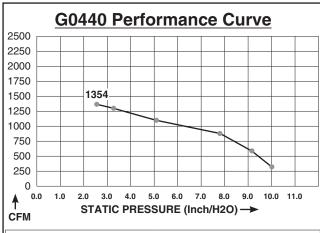


Figure 50. CFM for static pressure loss of line connected to a dust collector & router.

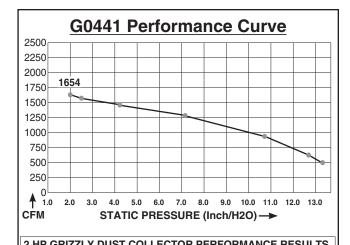
- —If the CFM for your static pressure loss is above the requirement of the machine connected to the end of that branch line, then dust collection will most likely be successful. Congratulations! You've just designed your own dust system. Refer to the Accessories section on Page 37 to start buying the components necessary to make your system a reality.
- —If the CFM for your static pressure loss is below the requirement of the machine, then that line will not effectively collect the dust. You must then modify some of the factors in that line to reduce the static pressure loss. Some of the ways to do this include 1) installing larger duct, 2) reducing amount of flexible duct used, 3) increasing machine dust port size, 4) moving machine closer to dust collector to eliminate duct length, and 5) reducing 90° elbows or replacing them with 45° elbows.



2 HP GRIZZLY DUST COLLECTOR PERFORMANCE RESULTS									
Max CFM Max S		HP		Volts		Inlet		Impeller	
1354 10.4		2 HP 22		220	V	7"		14-1/2"	
Restrictor Plate Diameter (inch)			6"		5"	4"	3"		2"
Static Pressure (Inch/H2O)			3.2	2	5.1	7.8	9.2		10.0
CFM		54	12	66	1070	829	586		338
֡	Max 9 10.4 Plate nch)	Max SP 10.4 Plate nch) Sure 2.5	Max SP HP 10.4 2 HP Plate nch) 7"	Max SP HP 10.4 2 HP Plate (nch) 7" 6" Sure 2.5 3.2	Max SP HP Vol 10.4 2 HP 220 Plate nch) 7" 6" Sure 2.5 3.2	Max SP HP Volts 10.4 2 HP 220V Plate nch) 7" 6" 5" Sure 2.5 3.2 5.1	Max SP HP Volts Inlet 10.4 2 HP 220V 7" Plate nch) 7" 6" 5" 4" Sure 2.5 3.2 5.1 7.8	Max SP HP Voits Inlet 10.4 2 HP 220V 7" Plate nch) 7" 6" 5" 4" 3" Sure 2.5 3.2 5.1 7.8 9.2	Max SP HP Volts Inlet Image: limit of the properties of the prope

The airflow test probe is located 1.5x duct diameter upstream from the air inlet. Test pipe length is a minimum of 10x duct diameter.

Figure 51. G0440 performance curve chart and data.



2 HP GRIZZLY DUST COLLECTOR PERFORMANCE RESULTS									
Max CFM Max		SP	HP	Volts	S	Inlet		lm	peller
1654 14.2			3 HP 220V		8"		15-1/2"		
Restrictor Plate (inch)		Dia. 8"	Dia. 7"	Dia. 6"	Dia. 5"	Dia. 4"	Dia 3"		Dia. 2"
Static Pressure (Inch/H2O)		2.0	2.5	4.2	7.2	10.8	12.	7	13.8
CFM		1654	1594	1466	1250	884	625	5	442

The airflow test probe is located 1.5x duct diameter upstream from the air inlet. Test pipe length is a minimum of 10x duct diameter.

Figure 52. G0441 performance curve chart and data.

Example Materials List

After the system is designed, create a materials list of all the items you will need to build your dust collection sytem. This will make it easy when it comes time to purchase the materials.

Below is an example of some items that might be needed. Refer to **Accessories** for dust collection components available through Grizzly.com.

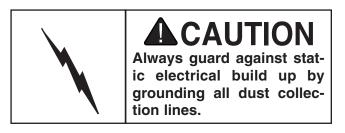
Description	Model	Quantity
6" Rigid Pipe at 20'	G7364	4
4" Rigid Pipe at 10'	G6162	2
4" Flex Hose at 5'	H7215	6
6" 45° Y-Branch	G7353	6
4" 45° Elbow	G6167	6

System Grounding

Since plastic hose is abundant, relatively inexpensive, easily assembled and air tight, it is a very popular material for conveying dust from woodworking machines to the dust collector. We recommend using flexible hose (flex-hose) to connect the woodworking machine to the dust collector. However, plastic flex-hose and plastic duct are an insulator, and dust particles moving against the walls of the plastic duct create a static electrical build up. This charge will build until it discharges to a ground. If a grounding medium is not available to prevent static electrical build up, the electrical charge will arc to the nearest grounded source. This electrical discharge may cause an explosion and subsequent fire inside the system.

To protect against static electrical build up inside a non-conducting duct, a bare copper wire should be placed inside the duct along its length and grounded to the dust collector. You must also confirm that the dust collector is continuously grounded through the electrical circuit to the electric service panel.

If you connect the dust collector to more than one machine by way of a non-conducting branching duct system and blast gates, the system must still be grounded as mentioned above. We recommend inserting a continuous bare copper ground wire inside the entire duct system and attaching the wire to each grounded woodworking machine and dust collector.



Be sure that you extend the bare copper wire down all branches of the system. Do not forget to connect the wires to each other with wire nuts when two branches meet at a "Y" or "T" connection.

Ensure that the entire system is grounded. If using plastic blast gates to direct air flow, the grounding wire must be jumped (see the **Figure** below) around the blast gate without interruption to the grounding system.

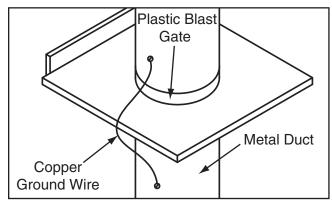


Figure 53. Ground jumper wire when using plastic blast gates and metal duct.

We also recommend wrapping the outside of all plastic ducts with bare copper wire to ground the outside of the system against static electrical build up. Wire connections at Y's and T's should be made with wire nuts.

Attach the bare ground wire to each stationary woodworking machine and attach to the dust collector frame with a ground screw as shown in the **Figure** below. Ensure that each machine is continuously grounded to the grounding terminal in your electric service panel.

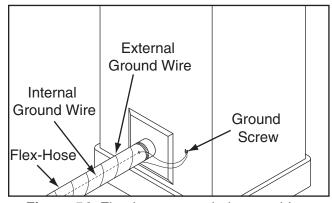
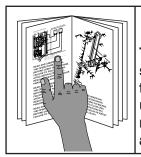


Figure 54. Flex-hose grounded to machine.



SECTION 5: OPERATIONS



AWARNING

To reduce the risk of serious injury when using this machine, read and understand this entire manual before beginning any operations.

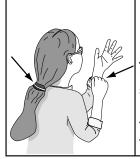
AWARNING

Damage to your eyes, lungs, and ears could result from using this machine without proper protective gear. Always wear safety glasses, a respirator, and hearing protection when operating this machine.









AWARNING

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY REC-OMMEND that you read books, trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Remote Control

The remote control for the Model G0440/G0441 is IR (infrared) rather than RF (radio frequency) to prevent accidental startups by other common RF items, such as garage door openers.

Because this remote system is IR, you must point the remote control directly at the switch to make it operate.

If you plan on placing your dust collector in a different room or outside of your shop, you must mount the switch in the shop and wire it through the wall to the dust collector to make use of the remote control.

General

Operating the Model G0440/G0441 is simple and straightforward. Turn the dust collector *ON*, then turn the machine *ON*. When you are finished with the machine operation, turn the machine *OFF*, then turn the dust collector *OFF*.

Blast gates can be used at the start of each branch line to control the air flow from the woodworking machine to the dust collector. If a machine is not being used, keep the blast gate closed to maintain higher levels of efficiency throughout the system.



SECTION 6: ACCESSORIES

WARNING

Some aftermarket accessories can be installed on this machine that could cause it to function improperly, increasing the risk of serious personal injury. To minimize this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to the newest copy of the Grizzly Catalog for other accessories available for this machine.

Gall 1-300-523-4777 To Order

T24703—Stand for G0440 T24704—Stand for G0441

Mounting your dust collector to a stand expands your layout options, and helps protect the dust collector from getting banged up. Also greatly decreases overall noise and vibration that is an inherent part of wall mounting.



Figure 55. Cyclone mounted on stand.

H5294—4" Metal Duct Machine Addition Kit H5296—5" Metal Duct Machine Addition Kit H5298—6" Metal Duct Machine Addition Kit Save over 20% with this great machine addition kit. Includes: (2) blast gates, (1) machine adapter, (10) pipe clamps, (2) pipe hangers, (2) 5' straight pipes, (2) adjustable nipples, (1) branch, and (1) 60° elbow.

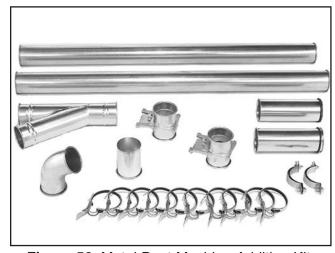


Figure 56. Metal Duct Machine Addition Kit.

H7215—4" x 5' Rigid Metal Flex Hose H7216—5" x 5' Rigid Metal Flex Hose H7217—6" x 5' Rigid Metal Flex Hose H7218—7" x 5' Rigid Metal Flex Hose H7219—8" x 5' Rigid Metal Flex Hose

This flex hose provides just enough flexibility to make difficult connections while still keeping the inside wall as smooth as possible to minimize static pressure loss.



Figure 57. Rigid Metal Flex Hose.



G6163—4" Clamp

G7343—5" Clamp

G7361—6" Clamp

H5228—7" Clamp

H5238—8" Clamp

H5253—9" Clamp

These clamps feature lever latches and foam seals, and secure around the rolled ends of fittings and pipe.



Figure 58. Dust collection pipe clamps.

G2752—4" Rolling Floor Sweep G2753—4" Bench Dust Collection Attachment

G2754—4" Floor Dust Collection Attachment

These attachments are indispensable for collecting dust at machines without a port. The rolling floor sweep is also a convenient way to keep the shop floor or workbench top clean! Designed for use with 4" flexible hose (not included).



Figure 59. Dust collection attachments.

H2443—Universal Adapter

This seven step adapter provides a multitude of dust collection reducing options. Simply cut away unneeded steps with a hacksaw. Outside diameter step sizes include 1", 2", 2.5", 3", 4", 5", and 6". Wall thickness is ½8".



Figure 60. H2443 Universal Adapter.

G0572—Hanging Air Cleaner w/Remote

Unfortunately, not even the best dust collection systems get all the dust. This is why it is extremely important to have one or two air cleaners to claim the fine dust suspended in the air. This model features a convenient remote control, three speeds, an automatic shutoff timer, and a 2-stage filter system (5 micron outer and 1 micron inner). Easily the best value in its class!

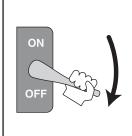


Figure 61. G0572 Hanging Air Cleaner.

Call 1-800-523-47777 To Order



SECTION 7: MAINTENANCE



AWARNING

Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

Emptying Drum

Empty the collection drum when it is no more than $\frac{3}{4}$ full. If the drum is overfilled, dust will be sucked into the inlet cylinder and pass through to the filter.

How quickly the drum fills up is based on the type of work being done at that time.

A machine that produces fine dust, such as a sander or table saw, will slowly fill the drum.

A machine that produces curly shavings, such as a planer or jointer, will quickly fill the drum.

Until you are familiar with long it takes the cyclone to fill the drum, check it regularly to get an idea of how often it needs to be emptied.

Cleaning Filter

Your new cyclone dust collector has a gentle brush system inside the filter for cleaning. This brush system is controlled by the red and black handles shown in **Figure 62**.

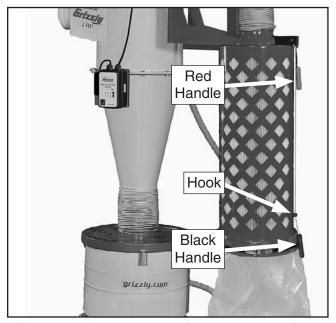


Figure 62. Brush handles for cleaning the filter.

To clean the filter, pull the red handle down all the way, then pull the black handle down and hook it in place.

Always make sure to leave the red handle in the up position to ensure that the brushes return to their proper position and do not restrict the filter.

Rinsing Filter

For a thorough cleaning, the filter can be removed and rinsed off. However, make sure to clean the filter with the brush system first. Allow the filter to air dry, but never leave the filter in the sun to dry or it could become damaged. Refer to **Removing/Replacing Filter** on the next page for detailed instructions in removing the canister filter.



Removing/Replacing Filter

The filter inside the canister assemblies can be removed from the assembly so that it can be replaced or rinsed off.

Removing/installing the filter requires removing the canister filter assembly from the dust collector and disassembling it. Follow the instructions below to perform this procedure.

When replacing the filter for the G0440 ask for part number **P0440032V2-4**. For the G0441, ask for part number **P04410032V2-4** from Grizzly at 800-523-4777.

Tools Needed	Qty
Open-End Wrench 10mm	1
Wrench or Socket 12mm	2

To replace the canister filter:

- DISCONNECT MACHINE FROM POWER!
- **2.** Remove the bag clamp and collection bag from the canister assembly.
- Pull the black handle all the way down and secure the cable into the handle hook at the bottom of the canister assembly, as shown in Figure 63, to hold it in place during the following steps.

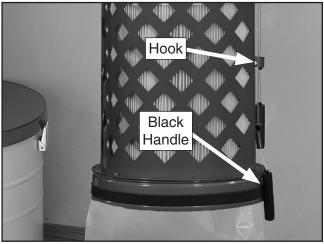


Figure 63. Black handle cable secured in the handle hook.

- **4.** Remove the canister assembly from the dust collector and place it right-side up on a stable, flat surface.
- Remove the six hex bolts, hex nuts, and flat washers from the rim of the canister base, as shown in Figure 64.

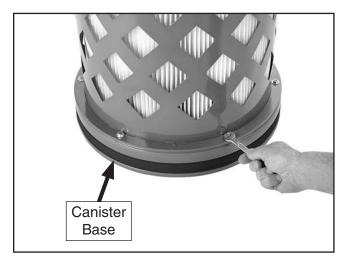


Figure 64. Removing the hex nuts and flat washers from the rim of the canister base.

6. With help from another person to steady the canister assembly, turn it upside down and remove the two hex bolts, hex nuts, and flat washers from the cross support (see Figure 65), then remove the canister base from the assembly.

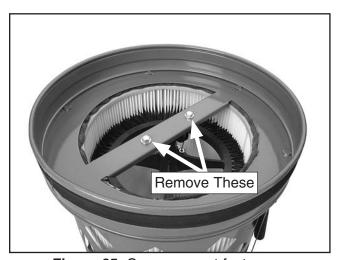


Figure 65. Cross support fasteners.

7. Carefully lift the filter out of the canister assembly, as shown in **Figure 66**.



Figure 66. Removing the filter from the canister assembly.

8. Before re-inserting a filter into the assembly, make sure that the filter brush base is aligned with two of the fastener holes around the base of the assembly (see **Figure 67**). This will allow the canister base to align with the fastener holes around the brush base.

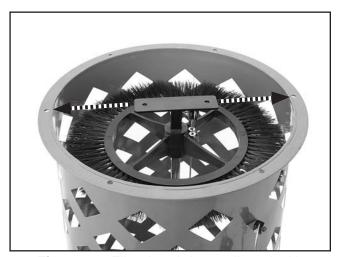


Figure 67. Filter brush base aligned with assembly fastener holes.

- **9.** Re-insert a filter into the canister assembly.
 - **Note:** Make sure the bristles of the brush are straight to ensure efficient cleaning of the filter when needed.
- **10.** Re-attach the canister base in the reverse order that you removed it.
- **11.** Re-attach the canister assembly to the dust collector, then re-install a fresh collection bag with the bag clamp.



SECTION 8: SERVICE

Review the troubleshooting and procedures in this section to fix or adjust your machine if a problem develops. If you need replacement parts or you are unsure of your repair skills, then feel free to call our Technical Support at (570) 546-9663.

Troubleshooting

Symptom	Possible Cause	Possible Solution
Motor will not start, or it growls on start up.	 Power supply fuse or circuit breaker has tripped. Toggle switch is broken inside. Start capacitor is at fault. Motor fan cover is dented. Motor is at fault. 	 Disconnect power, and inspect circuit for electrical shorts and repair; replace circuit breaker Disconnect power, and check/replace switch. Replace start capacitor. Replace motor fan cover (and fan, if damaged). Replace motor.
Motor runs slower than normal.	 Poor electrical connection. Low power source voltage. Motor is at fault. 	 Inspect the power supply for loose, corroded, or overheated electrical connections and repair. Have the power source voltage checked; reduce the length of extension cord. Replace the motor.
Loud, repetitious noise, or excessive vibration coming from dust collector.	 Dust collector is not on a flat surface and wobbles. Impeller fan is damaged and unbalanced. The motor mounting is loose. Impeller is loose on the motor shaft. Motor fan cover is dented, causing the motor fan to hit the cover while spinning. 	 Stabilize the dust collector. Unplug dust collector, and inspect the impeller for dents, bends, loose fins; replace. Re-tighten all fasteners on the dust collector. Replace the motor and impeller as a set if the motor shaft and the impeller hub is damaged. Replace motor fan cover.
Dust collector does not adequately collect dust or chips; poor performance.	 Dust collection drum is full. Filter is dirty. Restriction in the duct line. The dust collector is too far away from the point of suction, or there are too many sharp bends in the ducting. The lumber is wet and not flowing through the dust lines smoothly. There is a leak in the ducting, or a series of small leaks, or too many open ports. There are not enough open branch lines at one time, thereby causing a velocity drop in the main line. The ducting and ports are incorrectly sized. The machine dust collection design is inadequate. The dust collector is too small for the 	 Empty collection drum. Clean filter. Remove dust line from dust collector inlet and unblock the restriction in the duct line. A plumbing snake may be necessary. Relocate the dust collector closer to the point of suction, and rework ducting without sharp bends. Refer to System Design, beginning on Page 27. Process lumber with less than 20% moisture content. Rework the ducting to eliminate all leaks. Close dust ports for lines not being used. Refer to System Design on Page 27 for more solutions. Open 1 or 2 more blast gates to different branch lines to allow the velocity in the main line to increase. Reinstall correctly sized ducts and fittings. Refer to System Design on Page 27 for more solutions. Use a dust collection nozzle on a stand. Install a larger dust collector to power your dust



SECTION 9: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Study this section carefully. If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine.

AWARNING Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved aftermarket parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.

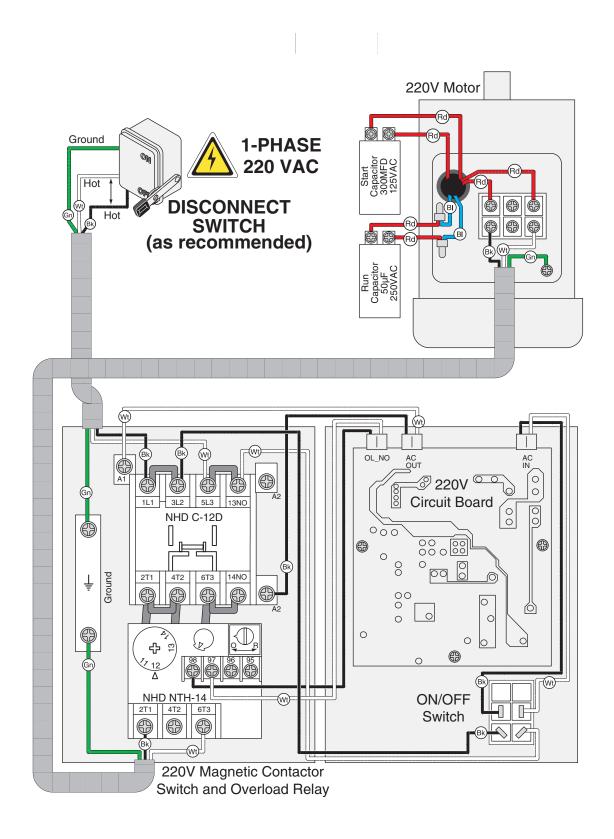
CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

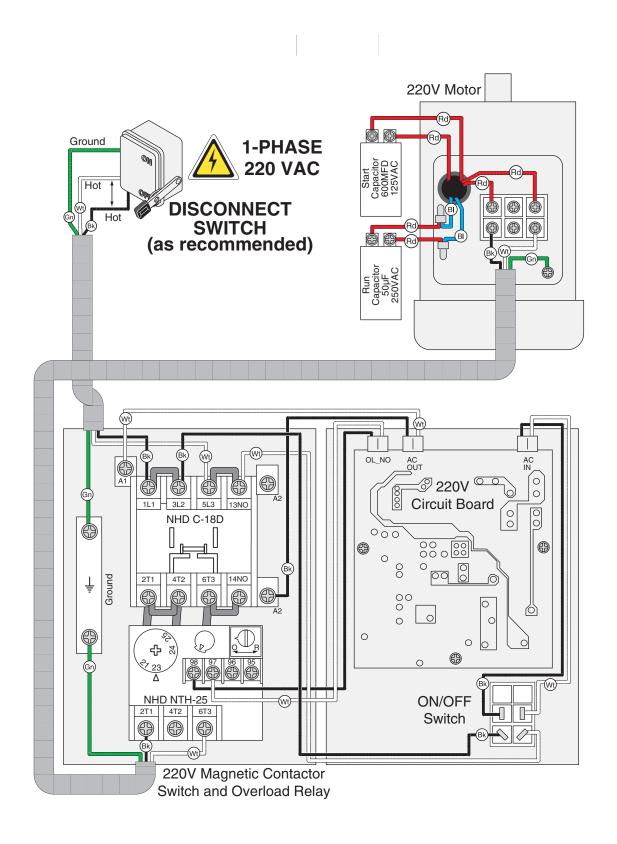
NOTICE **COLOR KEY** BLACK = The photos and diagrams BLUE YELLOW LIGHT included in this section are YELLOW WHITE = BROWN **BLUE** GREEN best viewed in color. You WHITE GREEN • **GRAY** PURPLE can view these pages in TUR-QUOISE (Rd) **PINK** RED **ORANGE** color at www.grizzly.com.



G0440 Wiring Diagram



G0441 Wiring Diagram



G0440/G0441 Electrical Components

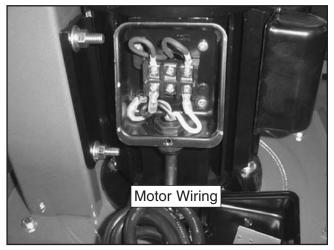


Figure 68. Motor wiring.

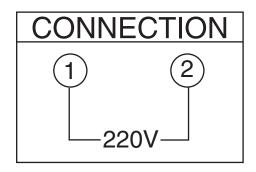


Figure 69. Motor wiring schematic.

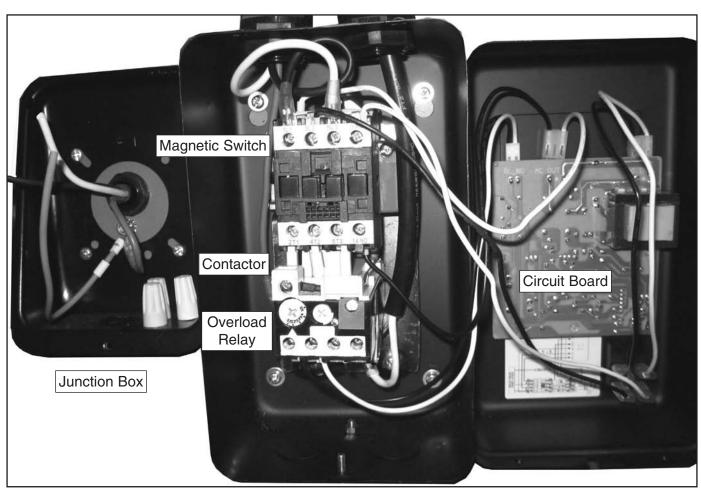
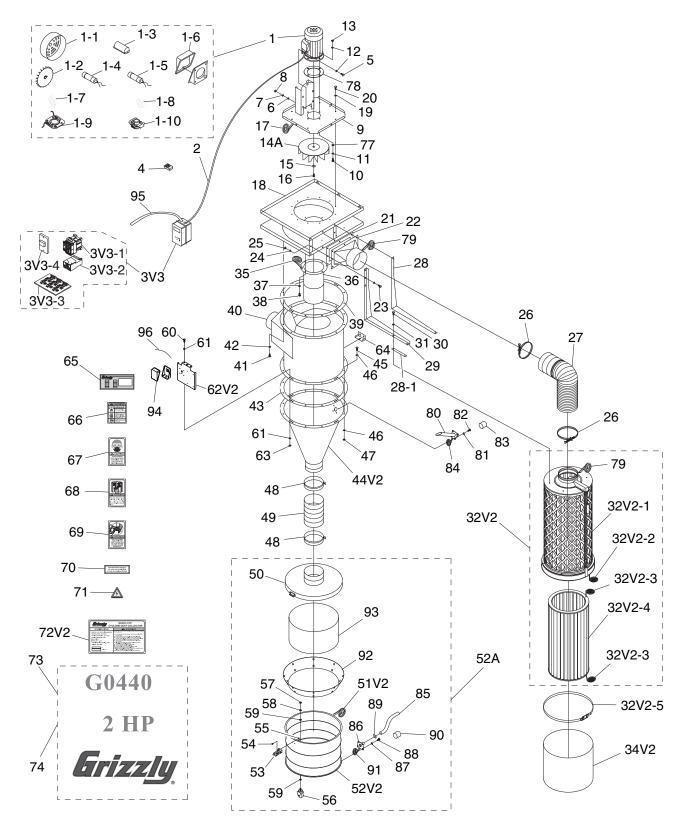


Figure 70. G0441 magnetic switch assembly.

SECTION 10: PARTS

G0440 Main



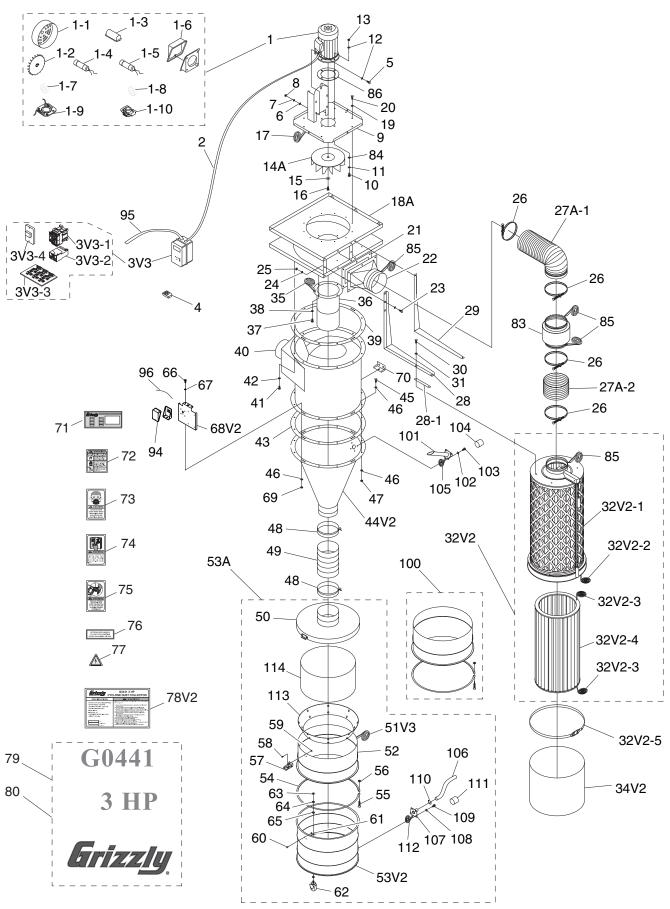
G0440 Parts List

1.1 P0440001 MOTOR 2HP 1PH 220V	REF	PART #	DESCRIPTION
1-2 P0440001-2 MOTOR FAN 1-3 P0440001-3 CAPACITOR COVER 1-4 PC300B S CAPACITOR 300M 125V 1-3/4 X 3-3/8 1-5 PC050A R CAPACITOR 50M 250V 1-5/8 X 3-1/2 1-6 P0440001-6 JUNCTION BOX 1-7 P0440001-7 FRONT MOTOR BEARING 1-8 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P044003V3-3 CIRC BOARD 220V W/TRANSFORMER 3V3-4 P044003V3-3 CIRC BOARD 220V W/TRANSFORMER 3V3-4 P044003V3-3 CIRC BOARD 220V W/TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 8 PN08 HEX NUT 3/8'-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8'-16 14A P0440014A IMPELLER 14-1/2* V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 1 21 PUW04 LOCK WASHER 3/8 21 P0440018 BLOWER HOUSING 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 3/4 24 P0440024 OUTLET GASKET 306 X 226MM 29 P0440029 RIGHT FILTER L-BRACE 28-1 P0440032V2- CANISTER FILTER L-BRACE 28-1 P0440032V2- CANISTER FILTER L-BRACE 28-1 P0440032V2- CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2- CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-4 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-4 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-4 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 45 X 1800MM 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10' 37 PW07 FLAT WASHER 5/16	1	P0440001	MOTOR 2HP 1PH 220V
1-3 P0440001-3 CAPACITOR COVER 1-4 PC300B S CAPACITOR 300M 125V 1-3/4 X 3-3/8 1-5 PC050A R CAPACITOR 50M 250V 1-5/8 X 3-1/2 1-6 P0440001-6 JUNCTION BOX 1-7 P0440001-7 FRONT MOTOR BEARING 1-8 P0440001-8 REAR MOTOR BEARING 1-9 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P044003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 3/8-16 X 3/4 21 PO440012 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 3/4 24 PW07 FLAT WASHER 5/16 26 P0440021 OUTLET GASKET 306 X 226MM 27 P0440022 OUTLET PORT 28 P0440022 OUTLET PORT 29 P0440022 OUTLET PORT 29 P0440022 LEFT FILTER L-BRACE 28-1 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 28-1 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-5 P0440034V2 PLASTIC BAG AT VX 600MM V2.11.09 34V2 P0440034V2 PLASTIC BAG AT VX 600MM V2.11.09 34V2-1 P0440031 PLASTIC BAG AT VX 600MM V2.11.09 34V2-1 P0440031 PLAT WASHER 5/16	1-1	P0440001-1	MOTOR FAN COVER
1-4 PC300B S CAPACITOR 300M 125V 1-3/4 X 3-3/8 1-5 PC050A R CAPACITOR 50M 250V 1-5/8 X 3-1/2 1-6 P0440001-6 JUNCTION BOX 1-7 P0440001-7 FRONT MOTOR BEARING 1-8 P0440001-8 REAR MOTOR BEARING 1-9 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET FORT 22 P0440022 GUTLET FORT 23 PB03 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 GARAY FLEX PIPE 7" X 800MM 24 P0440028 LEFT FILTER L-BRACE 28-1 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 28-1 P0440039 CANISTER FILTER L-BRACE 28-1 P0440039 PO7 FLAT WASHER 5/16 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440028 LEFT FILTER L-BRACE 34 P0440039 PO7 FLAT WASHER 5/16 35 P0440039 PO7 FLAT WASHER 5/16 36 P0440039 PO7 FLAT WASHER 5/16 37 P0440039 PO7 FLAT WASHER 5/16 39 P04400029 RIGHT FILTER L-BRACE 39 P04400029 RIGHT FILTER L-BRACE 39 P04400039 PO7 FLAT WASHER 5/16 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440032V-2 GANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V-2 FOAM TAPE 3 X 5 X 1255MM V2.11.09 32V2-2 P0440032V-2 GANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440031V-2 FLAT WASHER 5/16 30 P0440014 P0440014 PLAT WASHER 5/16 30 P04400014 PLAT WASHER 5/16 30 P04400014 PLAT WASHER 5/16 30 P04400014 PLAT W	1-2	P0440001-2	MOTOR FAN
1-5 PC050A R CAPACITOR 50M 250V 1-5/8 X 3-1/2 1-6 P0440001-6 JUNCTION BOX 1-7 P0440001-7 FRONT MOTOR BEARING 1-8 P0440001-9 CONTACT PLATE 1-10 P0440001-9 CONTACT PLATE 1-10 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P044003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P044003V3-3 CIRC BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440016 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET PORT 23 PB03 HEX NUT 5/16"-18 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 X 3/4 21 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440022 OUTLET FORT 27 P0440021 OUTLET GASKET 306 X 226MM 29 P0440022 OUTLET FORT 29 P0440029 RIGHT FILTER L-BRACE 28-1 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 28-1 P0440032 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 5 X 1850MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 5 X 1850MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 5 X 1850MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 6 X 1800MM 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440018 INTAKE CYLINDER 10" 37 P0440017 FOAM TAPE 3 X 6 X 1800MM 37 P0440018 INTAKE CYLINDER 10" 38 P0440018 INTAKE CYLINDER 10" 39 P0440019 FLAT WASHER 5/16	1-3	P0440001-3	CAPACITOR COVER
1-6 P0440001-6 JUNCTION BOX 1-7 P0440001-7 FRONT MOTOR BEARING 1-8 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P044003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 1/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX BOLT 5/16-18 X 1 26 P0440028 LEFT FILTER L-BRACE 27 P0440029 RIGHT FILTER L-BRACE 28-1 P0440028 LEFT FILTER L-BRACE 28-1 P0440028 LEFT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 39 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 3 X 1255MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 3 X 1255MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 3 X 1255MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 3 X 1255MM V2.11.09 32V2-2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 32V2-5 P0440036 PLASTIC BAG 470 X 600MM V2.11.09 32V2-5 P0440036 PLASTIC BAG 470 X 600MM V2.11.09	1-4	PC300B	S CAPACITOR 300M 125V 1-3/4 X 3-3/8
1-7 P0440001-7 FRONT MOTOR BEARING 1-9 P0440001-8 REAR MOTOR BEARING 1-9 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P044003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P044003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P044003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P044003V3-3 CIRC. BOARD 220V W/TRANSFORMER 3V3-4 P044003V3-3 CIRC. BOARD 220V W/TRANSFORMER 3V3-4 P044003V3-3 CIRC. BOARD 220V W/TRANSFORMER 3V3-4 P044003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8'-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8''-16 14A P0440014A IMPELLER 14-1/2' V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P044001 FOAM TAPE 3 X 6 X 1600MM 18 P044001B BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16'-18 26 P0440026 UTLET PORT 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 39 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 R 3 X 5 X 1255MM V2.11.09 32V2-2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 32V2-2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 34V2-5 P0440036 INTAKE CYLINDER 10" 36 P0440036 INTAKE CYLINDER 10"	1-5	PC050A	R CAPACITOR 50M 250V 1-5/8 X 3-1/2
1-8 P0440001-8 REAR MOTOR BEARING 1-9 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER FENDER WASHER 3/8 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 3/6 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 3/4 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 X 3/4 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440022 CANISTER FILTER CAGE ASSY V2.11.09 32V2-1 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-3 P0440034V2 PLASTIC BAG GAG AT X K 600MM V2.11.09 32V2-5 P0440036 INTAKE CYLINDER 10" 35 P0440016 INTAKE CYLINDER 10"	1-6	P0440001-6	JUNCTION BOX
1-9 P0440001-9 CONTACT PLATE 1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3-1 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440033V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER FENDER WASHER 3/8 17 P0440015 IMPELLER FENDER WASHER 3/8 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX NUT 5/16"-18 24 PW07 FLAT WASHER 5/16 25 PN02 HEX BOLT 5/16-18 X 3/4 26 P0440022 OUTLET PORT 27 P0440027 GRAY FLAT WASHER 5/16 28-1 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 34 P0440029 RIGHT FILTER L-BRACE 35 PN02 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 34 P0440029 RIGHT FILTER L-BRACE 35 P0440029 RIGHT FILTER L-BRACE 36 P0440029 RIGHT FILTER L-BRACE 37 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-5 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-5 P0440036 INTAKE CYLINDER 10" 36 P0440036 INTAKE CYLINDER 10"	1-7	P0440001-7	FRONT MOTOR BEARING
1-10 P0440001-10 CENTRIFUGAL SWITCH 3450 2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V3-1 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 8 PN08 HEX NUT 3/8'-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8'-16 9 P0440019 BLOWER COVER 14 P0440014 IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 X 1 LH 7 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440022 OUTLET PORT 23 PB03 HEX NUT 5/16'-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440029 RIGHT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 39 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 RIGHT FILTER L-BRACE 34 P0440029 RIGHT FILTER L-BRACE 35 P0440029 RIGHT FILTER L-BRACE 36 P0440029 RIGHT FILTER L-BRACE 37 P0440032V-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V-2 FOAM TAPE 3 X 5 X 1400MM V2.11.09 32V2-2 P0440032V-2 FOAM TAPE 3 X 5 X 1450MM V2.11.09 32V2-2 P0440032V-2 FOAM TAPE 3 X 5 X 1550MM V2.11.09 32V2-2 P0440032V-3 FOAM TAPE 3 X 5 X 1550MM V2.11.09 32V2-5 P04400036 INTAKE CYLINDER 10" 36 P0440016 INTAKE CYLINDER 10"	1-8	P0440001-8	REAR MOTOR BEARING
2 P0440002 MOTOR CORD 12G 3C 3V3 P0440003V31 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8-16 14A P0440014 IMPELLER FENDER WASHER 3/8 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X	1-9	P0440001-9	CONTACT PLATE
3V3 P0440003V3 REMOTE MAG SWITCH 220V V3.01.12 3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8*-16 X 1-1/2 14 PWF02 FLAT WASHER 3/8 15 PLW04 LOCK WASHER 3/8 16 PB103 IMPELLER 14-1/2" V2.02.06 15 P0440014A IMPELLER 14-1/2" V2.02.06 16 PB103 IMPELLER 160-1 3/8-16 X 1 LH	1-10	P0440001-10	CENTRIFUGAL SWITCH 3450
3V3-1 P0440003V3-1 CONTACTOR NHD C-12D 220V 3V3-2 P0440003V3-2 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440017 FOAM TAPE 3 X 6 X 1600MM 19 PW07 FLAT WASHER 5/16	2	P0440002	MOTOR CORD 12G 3C
3V3-2 P0440003V3-3 OL RELAY NHD NTH-14 11-14A 3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14 PUW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14 P0440014 IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING	3V3	P0440003V3	REMOTE MAG SWITCH 220V V3.01.12
3V3-3 P0440003V3-3 CIRC. BOARD 220V W/ TRANSFORMER 3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8*-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8*-16 X 1-1/2 14 PUW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8*-16 X 1 14 P0440014A IMPELLER FDER WASHER 3/8 16 PB103 IMPELLER FDDER WASHER 3/8 16 PB103 IMPELLER FDDER WASHER 3/8 16 PB103 IMPELLER FDDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM	3V3-1	P0440003V3-1	CONTACTOR NHD C-12D 220V
3V3-4 P0440003V3-4 ON/OFF SWITCH 110/220V 4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 <td< td=""><td>3V3-2</td><td>P0440003V3-2</td><td>OL RELAY NHD NTH-14 11-14A</td></td<>	3V3-2	P0440003V3-2	OL RELAY NHD NTH-14 11-14A
4 P0443005 REMOTE CONTROLLER 5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER FENDER WASHER 3/8 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32 P0440029 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER ASSEMBLY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 5 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	3V3-3	P0440003V3-3	CIRC. BOARD 220V W/ TRANSFORMER
5 PB16 HEX BOLT 3/8-16 X 1-1/2 6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440015 IMPELLER BOLT 3/8-16 X 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02	3V3-4	P0440003V3-4	ON/OFF SWITCH 110/220V
6 PW02 FLAT WASHER 3/8 7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 <td< td=""><td>4</td><td>P0443005</td><td>REMOTE CONTROLLER</td></td<>	4	P0443005	REMOTE CONTROLLER
7 PLW04 LOCK WASHER 3/8 8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440011 OUTLET GASKET 306 X 226MM 22 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440022	5	PB16	HEX BOLT 3/8-16 X 1-1/2
8 PN08 HEX NUT 3/8"-16 9 P0440009 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028<	6	PW02	FLAT WASHER 3/8
9 P0440099 BLOWER COVER 10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-5 BAG CLAMP 445MM V2.11.09 32V2-5 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	7	PLW04	LOCK WASHER 3/8
10 PB18 HEX BOLT 3/8-16 X 1-1/2 11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440021 OUTLET FORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31	8	PN08	HEX NUT 3/8"-16
11 PWF02 FLAT WASHER 3/8 12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31	9	P0440009	BLOWER COVER
12 PLW04 LOCK WASHER 3/8 13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2- CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-3 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-4 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	10	PB18	HEX BOLT 3/8-16 X 1-1/2
13 PN08 HEX NUT 3/8"-16 14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-4 P0440032V2 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2 FOAM TAPE 3 X 25 X 1255MM V2.11.09 32V2-5 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	11	PWF02	FLAT WASHER 3/8
14A P0440014A IMPELLER 14-1/2" V2.02.06 15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440021 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER CAGE ASSY V2.11.09	12	PLW04	LOCK WASHER 3/8
15 P0440015 IMPELLER FENDER WASHER 3/8 16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440026 HOSE CLAMP 7" 28 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09	13	PN08	HEX NUT 3/8"-16
16 PB103 IMPELLER BOLT 3/8-16 x 1 LH 17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440026 HOSE CLAMP 7" 28 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09	14A	P0440014A	IMPELLER 14-1/2" V2.02.06
17 P0440017 FOAM TAPE 3 X 6 X 1600MM 18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-4 P0440032V2-5 BAG CLAMP 445MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	15	P0440015	IMPELLER FENDER WASHER 3/8
18 P0440018 BLOWER HOUSING 19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-4 P0440032V	16	PB103	IMPELLER BOLT 3/8-16 x 1 LH
19 PW07 FLAT WASHER 5/16 20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 32V2-5 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	17	P0440017	FOAM TAPE 3 X 6 X 1600MM
20 PB07 HEX BOLT 5/16-18 X 3/4 21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09	18	P0440018	BLOWER HOUSING
21 P0440021 OUTLET GASKET 306 X 226MM 22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM <td>19</td> <td>PW07</td> <td>FLAT WASHER 5/16</td>	19	PW07	FLAT WASHER 5/16
22 P0440022 OUTLET PORT 23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 34V2 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440036 INTAKE CYLINDER 10"	20	PB07	HEX BOLT 5/16-18 X 3/4
23 PB03 HEX BOLT 5/16-18 X 1 24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-4 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	21	P0440021	OUTLET GASKET 306 X 226MM
24 PW07 FLAT WASHER 5/16 25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029-/ID RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2-/ID CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	22	P0440022	OUTLET PORT
25 PN02 HEX NUT 5/16"-18 26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	23	PB03	HEX BOLT 5/16-18 X 1
26 P0440026 HOSE CLAMP 7" 27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440029-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	24	PW07	FLAT WASHER 5/16
27 P0440027 GRAY FLEX PIPE 7" X 800MM 28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	25	PN02	HEX NUT 5/16"-18
28 P0440028 LEFT FILTER L-BRACE 28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	26	P0440026	HOSE CLAMP 7"
28-1 P0440028-1 BRACE GASKET 155 X 37MM 29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	27	P0440027	GRAY FLEX PIPE 7" X 800MM
29 P0440029 RIGHT FILTER L-BRACE 30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	28	P0440028	LEFT FILTER L-BRACE
30 PB07 HEX BOLT 5/16-18 X 3/4 31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	28-1	P0440028-1	BRACE GASKET 155 X 37MM
31 PW07 FLAT WASHER 5/16 32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	29	P0440029	RIGHT FILTER L-BRACE
32V2 P0440032V2 CANISTER FILTER ASSEMBLY V2.11.09 32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	30	PB07	HEX BOLT 5/16-18 X 3/4
32V2-1 P0440032V2-1 CANISTER FILTER CAGE ASSY V2.11.09 32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	31	PW07	FLAT WASHER 5/16
32V2-2 P0440032V2-2 FOAM TAPE 3 X 25 X 1400MM V2.11.09 32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2	P0440032V2	CANISTER FILTER ASSEMBLY V2.11.09
32V2-3 P0440032V2-3 FOAM TAPE 38 X 35 X 1255MM V2.11.09 32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2-1	P0440032V2-1	CANISTER FILTER CAGE ASSY V2.11.09
32V2-4 P0440032V2-4 CANISTER FILTER 386MM V2.11.09 32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2-2	P0440032V2-2	FOAM TAPE 3 X 25 X 1400MM V2.11.09
32V2-5 P0440032V2-5 BAG CLAMP 445MM V2.11.09 34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2-3	P0440032V2-3	FOAM TAPE 38 X 35 X 1255MM V2.11.09
34V2 P0440034V2 PLASTIC BAG 470 X 600MM V2.11.09 35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2-4	P0440032V2-4	CANISTER FILTER 386MM V2.11.09
35 P0440017 FOAM TAPE 3 X 6 X 1800MM 36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	32V2-5	P0440032V2-5	BAG CLAMP 445MM V2.11.09
36 P0440036 INTAKE CYLINDER 10" 37 PW07 FLAT WASHER 5/16	34V2	P0440034V2	PLASTIC BAG 470 X 600MM V2.11.09
37 PW07 FLAT WASHER 5/16	35	P0440017	FOAM TAPE 3 X 6 X 1800MM
	36	P0440036	INTAKE CYLINDER 10"
38 PB07 HEX BOLT 5/16-18 X 3/4	37	PW07	FLAT WASHER 5/16
	38	PB07	HEX BOLT 5/16-18 X 3/4

REF	PART #	DESCRIPTION
39	P0440039	BARREL GASKET 584MM DIA.
40	P0440040	INTAKE BARREL 20"
41	PB07	HEX BOLT 5/16-18 X 3/4
42	PW07	FLAT WASHER 5/16
43	P0440039	BARREL GASKET 584MM DIA.
44V2	P0440044V2	CYCLONE FUNNEL 20" V2.08.10
45	PB03	HEX BOLT 5/16-18 X 1
46	PW07	FLAT WASHER 5/16
47	PN02	HEX NUT 5/16"-18
48	P0440048	HOSE CLAMP 9"
49	P0440049	CLEAR FLEX PIPE 9" x 200MM
50	P0440050	COLLECTION DRUM LID V2.08.06
51V2	P0440051V2	DRUM SEAL TYPE-T 2.1M V2.11.09
52A	P0440052A	COLLECTION DRUM ASSEMBLY
52V2	P0440052V2	COLLECTION DRUM 35GAL V2.08.10
53	P0440053	DRUM LID LATCH ASSEMBLY
54	PS06	PHLP HD SCR 10-24 X 3/8
55	PN07	HEX NUT 10-24
56	P0440056	CASTER 2"
57	PN08	HEX NUT 3/8"-16
58	PLW04	LOCK WASHER 3/8
59	PW02	FLAT WASHER 3/8
60	PB03	HEX BOLT 5/16-18 X 1
61	PW07	FLAT WASHER 5/16
62V2	P0440062V2	SWITCH MOUNTING BRACKET V2.03.12
63	PN02	HEX NUT 5/16"-18
64	P0440064	WALL MOUNTING BRACE
65	P0440065	MOTOR SPEC LABEL
66	P0442093	MOTOR WARNING LABEL
67	PLABEL-82	GLASSES/RESPIRATOR DC LABEL
68	PLABEL-12	READ MANUAL 2W X 3.3H
69	PLABEL-59	HANDS/INLET LABEL
70	P0442097	RETURN RED HANDLE LABEL
71	PLABEL-14	ELECTRICITY 1.4W X 1.2H
72V2	P0440072V2	MACHINE ID LABEL CSA V2.01.12
73	P0440073	MODEL NO/HP/GRIZZLY LABEL LRG
74	P0440074	MODEL NO/HP/GRIZZLY LABEL SML
77	PTLW03	EXT TOOTH WASHER 3/8
78	P0440078	MOTOR MOUNT GASKET
79	P0440079	FOAM TAPE 3 X 15 X 600MM
80	P0440080	CYCLONE VACUUM TUBE
81	PW07	FLAT WASHER 5/16
82	PB07	HEX BOLT 5/16-18 X 3/4
83	P0440083	TUBE PLUG 1-1/4"
84	P0440084	FOAM TAPE 3 X 6 X 300MM
85	P0440085	VACUUM HOSE 1-1/4" X 98"
86	P0440086	COLLECTION DRUM VACUUM TUBE
87	PW07	FLAT WASHER 5/16
88	PB07	HEX BOLT 5/16-18 X 3/4
89	P0440089	HOSE CLAMP 1-1/4"
90	P0440083	TUBE PLUG 1-1/4"
91	P0440084	FOAM TAPE 3 X 6 X 300MM
92	P0440092	COLLECTION DRUM VACUUM RING
93	P0440093	DRUM COLLECTION BAG 640 X 1000MM
94	P0440094	JUNCTION BOX
95	P0440095	JUNCTION BOX CORD 12G 3C 650MM
96	P0440096	GREEN GROUNDING WIRE 12G 6"



G0441 Main



G0441 Parts List

REF	PART #	DESCRIPTION
1	P0441001	MOTOR 3HP 220V 1PH
1-1	P0441001-1	MOTOR FAN COVER
1-2	P0441001-2	MOTOR FAN
1-3	P0441001-3	CAPACITOR COVER
1-4	P0441001-4	S CAPACITOR 600M 125V 1-3/4 X 3-3/4
1-5	PC050A	R CAPACITOR 50M 250V 1-5/8 X 3-1/2
1-6	P0441001-6	JUNCTION BOX
1-7	P0441001-7	FRONT MOTOR BEARING
1-8	P0441001-8	REAR MOTOR BEARING
1-9	P0441001-9	CONTACT PLATE
1-10	P0441001-10	CENTRIFUGAL SWITCH 3450
2	P0440002	MOTOR CORD 12G 3C
3V3	P0441003V3	REMOTE MAG SWITCH 220V V3.01.12
3V3-1	P0440003V3-1	CONTACTOR NHD C-18D 220V
3V3-2	P0440003V3-2	OL RELAY NHD NTH-25 21-25A
3V3-3	P0440003V3-3	CIR. BOARD 220V W/ TRANSFORMER
3V3-4	P0440003V3-4	ON/OFF SWITCH 110/220V
4	P0443005	REMOTE CONTROLLER
5	PB16	HEX BOLT 3/8-16 X 1-1/2
6	PW02	FLAT WASHER 3/8
7	PLW04	LOCK WASHER 3/8
8	PN08	HEX NUT 3/8"-16
9	P0441009	BLOWER COVER
10	PB16	HEX BOLT 3/8-16 X 1-1/2
11	PWF02	FLAT WASHER 3/8
12	PLW04	LOCK WASHER 3/8
13	PN08	HEX NUT 3/8"-16
14A	P0441014A	IMPELLER 15-1/2" V2.02.06
15	P0440015	IMPELLER FENDER WASHER 3/8
16	PB103	HEX BOLT 3/8-16 X 1 LH
17	P0440017	FOAM TAPE 3 X 6 X 1600MM
18A	P0441018A	BLOWER HOUSING 15-1/2" IMP V2.02.06
19	PW07	FLAT WASHER 5/16
20	PB07	HEX BOLT 5/16-18 X 3/4
21	P0441021	OUTLET GASKET 326 X 226MM
22	P0441022	OUTLET PORT
23	PB03	HEX BOLT 5/16-18 X 1
24	PW07	FLAT WASHER 5/16
25	PN02	HEX NUT 5/16"-18
26	P0441026	HOSE CLAMP 8"
27A-1	P0441027A-1	GREY FLEX PIPE 8" X 500MM V2.04.08
27A-2	P0441027A-2	GREY FLEX PIPE 8" X 120MM V2.04.08
28	P0441028	RIGHT FILTER L-BRACE
28-1	P0442030-1	BRACE GASKET 240 x 32MM
29	P0441029	LEFT FILTER L-BRACE
30	PB07	HEX BOLT 5/16-18 X 3/4
31	P0441032V2	FLAT WASHER 5/16
32V2	P0441032V2	CANISTER ASSEMBLY V2.11.09
32V2-1	P0441032V2-1 P0441032V2-2	CANISTER FILTER CAGE ASSEMBLY
32V2-2 32V2-3	†	FOAM TAPE 3 X 25 X 1700MM V2.11.09 FOAM TAPE 38 X 35 X 1570MM V2.11.09
	P0440032V2-3	
32V2-4 32V2-5	P0441032V2-4 P0441032V2-5	CANISTER FILTER 486MM V2.11.09 BAG CLAMP 545MM V2.11.09
34V2	P0441032V2-5	PLASTIC BAG 570 X 600MM V2.11.09
35	P0441034V2	FOAM TAPE 3 X 6 X 1800MM
36	P0441017	INTAKE CYCLINDER 10"
37	PB07	HEX BOLT 5/16-18 X 3/4
38	PW07	FLAT WASHER 5/16
39	P0440039	BARREL GASKET 584MM DIA.
40	P0441040	INTAKE BARREL 20"
41	PB07	HEX BOLT 5/16-18 X 3/4
42	PW07	FLAT WASHER 5/16
T-	. ****/	I D. (1 VV) (OTTETT O/ TO

REF	PART #	DESCRIPTION										
43	P0440039	BARREL GASKET 584MM DIA.										
44V2	P0440044V2	CYCLONE FUNNEL 20" V2.08.10										
45	PB03	HEX BOLT 5/16-18 X 1										
53A	P0441053A	COLLECTION DRUM ASSEMBLY										
46	PW07	FLAT WASHER 5/16										
47	PN02	HEX NUT 5/16"-18										
48	P0441048	HOSE CLAMP 9"										
49	P0441049	CLEAR FLEX PIPE 9" X 340MM										
50	P0440050	COLLECTION DRUM LID V2.08.06										
51V3	P0441051V3	DRUM SEAL TYPE-R 2.1M V3.01.12										
52	P0441052	UPPER DRUM 25GAL										
53V2	P0440052V2	COLLECTION DRUM 35GAL V2.08.10										
54	P0441054	DRUM CLAMP										
55	PB04	HEX BOLT 5/16-18 X 3										
56	PN02	HEX NUT 5/16"-18										
57	P0440053	DRUM LID LATCH ASSEMBLY										
58	PS06	PHLP HD SCR 10-24 X 3/8										
59	PN07	HEX NUT 10-24										
60	PS06	PHLP HD SCR 10-24 X 3/8										
61	PN07	HEX NUT 10-24										
62	P0440056	CASTER 2"										
63	PN08	HEX NUT 3/8"-16										
64	PLW04	LOCK WASHER 3/8										
65	PW02	FLAT WASHER 3/8										
66	PB03	HEX BOLT 5/16-18 X 1										
67	PW07	FLAT WASHER 5/16										
68V2	P0440062V2	SWITCH MOUNTING BRACKET V2.03.12										
69	PN02	HEX NUT 5/16"-18										
70	P0441070	WALL MOUNT BRACKET										
71	P0441071	MOTOR SPEC LABEL										
72	P0441072	MOTOR WARNING LABEL										
73	PLABEL-82	GLASSES/RESPIRATOR DC LABEL										
74	PLABEL-12	READ MANUAL 2W X 3.3H										
75	PLABEL-59	HANDS/INLET LABEL										
76	P0442097	RETURN RED HANDLE LABEL										
77	PLABEL-14	ELECTRICITY 1.4W X 1.2H										
78V2	P0441078V2	MACHINE ID LABEL CSA V2.01.12										
79	P0441079	MODEL NO/HP/GRIZZLY LABEL LRG										
80	P0441080	MODEL NO/HP/GRIZZLY LABEL SML										
83	H8167	MUFFLER 8"										
84	PTLW03	EXT TOOTH WASHER 3/8										
85 86	P0441085 P0441086	FOAM TAPE 3 X 15 X 700MM MOTOR MOUNT GASKET										
94 95	P0440094 P0440095	JUNCTION BOX JUNCTION BOX CORD 12G 3C 650MM										
96	P0440095 P0440096	GREEN GROUNDING WIRE 12G 6"										
100	P0440096	COLLECTION DRUM EXT KIT										
101	P0440100 P0440080	CYCLONE VACUUM TUBE										
102	PW07	FLAT WASHER 5/16										
103	PB07	HEX BOLT 5/16-18 X 3/4										
103	P0440083	TUBE PLUG 1-1/4"										
105	P0440084	FOAM TAPE 3 X 6 X 300MM										
106	P0440085	VACUUM HOSE 1-1/4" X 98"										
107	P0440086	COLLECTION DRUM VACUUM TUBE										
108	PW07	FLAT WASHER 5/16										
109	PB07	HEX BOLT 5/16-18 X 3/4										
110	P0440089	HOSE CLAMP 1-1/4"										
111	P0440089	TUBE PLUG 1-1/4"										
112	P0440084	FOAM TAPE 3 X 6 X 300MM										
113	P0440092	COLLECTION DRUM VACUUM RING										
114	P0441114	DRUM COLLECTION BAG 640 X 1200MM										
		The state of the s										



CUT ALONG DOTTED LINE

Grizzia WARRANTY CARD

City	y	_ State	Zip
		_ Email	
		_ Order #	
		n a voluntary basis. It will be used for urse, all information is strictly confi	•
1.	How did you learn about us Advertisement Card Deck	? Friend Website	Catalog Other:
2.	Which of the following maga	azines do you subscribe to?	
	Cabinetmaker & FDM Family Handyman Hand Loader Handy Home Shop Machinist Journal of Light Cont. Live Steam Model Airplane News Old House Journal Popular Mechanics	Popular Science Popular Woodworking Precision Shooter Projects in Metal RC Modeler Rifle Shop Notes Shotgun News Today's Homeowner Wood	 Wooden Boat Woodshop News Woodsmith Woodwork Woodworker West Woodworker's Journal Other:
3.	What is your annual househ \$20,000-\$29,000 \$50,000-\$59,000	old income? \$30,000-\$39,000 \$60,000-\$69,000	\$40,000-\$49,000 \$70,000+
4.	What is your age group? 20-29 50-59	30-39 60-69	40-49 70+
5.	How long have you been a v		ears20+ Years
6.	How many of your machines	s or tools are Grizzly? 3-5 6-9	10+
7.	Do you think your machine r	represents a good value?	YesNo
8.	Would you recommend Griz	zly Industrial to a friend?	No
9.	Would you allow us to use y Note: We never use names	our name as a reference for Grizzl more than 3 times.	y customers in your area? _YesNo
10.	Comments:		

Place Stamp Here



GRIZZLY INDUSTRIAL, INC. P.O. BOX 2069 BELLINGHAM, WA 98227-2069

II.	Indu	IIII	الالا	Ш	IIII	III	Ш		III	ı	ш	ш	ı	111	IIII	

FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

 Name______

 Street______

 City______ State_____ Zip_____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We 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.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.



Buy Direct and Save with Grizzly® – Trusted, Proven and a Great Value! ~Since 1983~

Visit Our Website Today For Current Specials!

ORDER 24 HOURS A DAY! 1-800-523-4777







