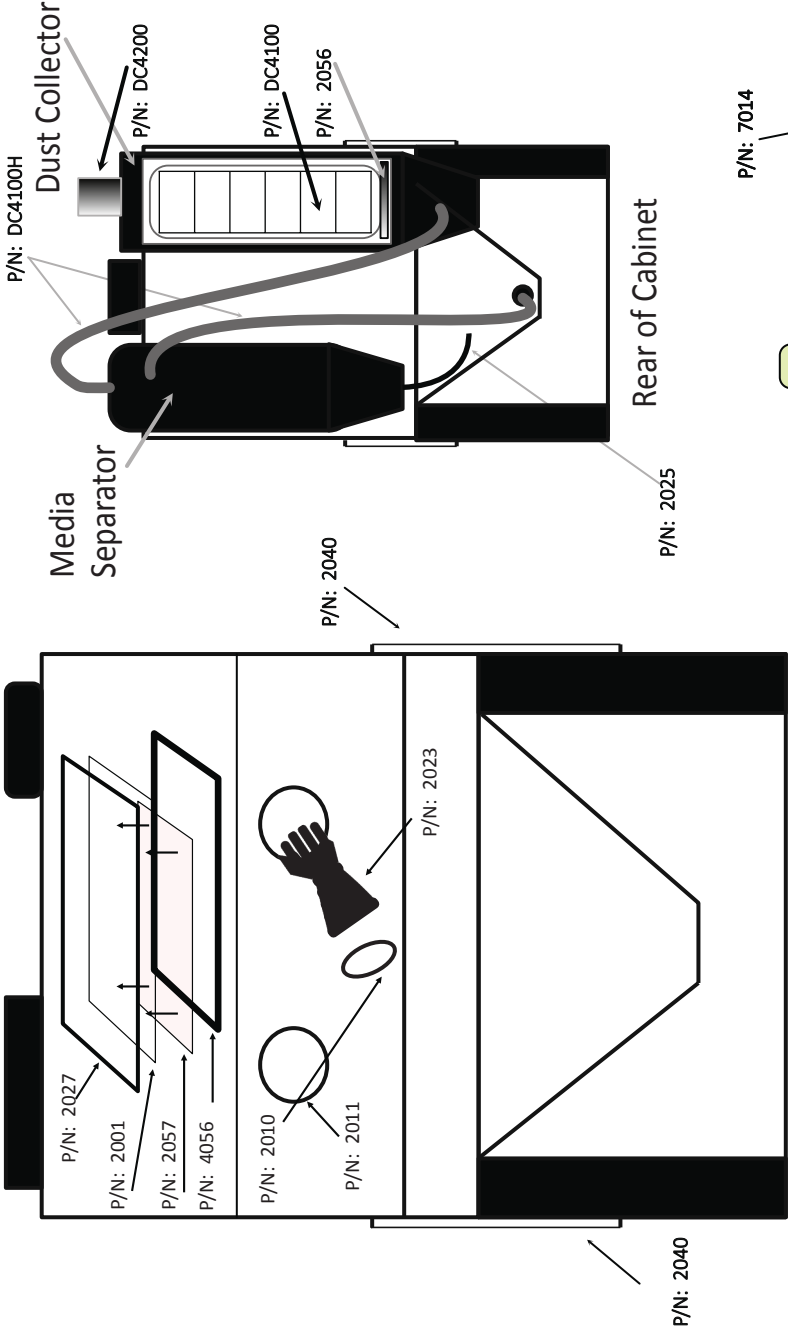


Items marked (*) are accessories and *DO NOT* come standard with this unit. They can be purchased separately.

REPLACEMENT PARTS LIST

Part Number	Description	Part Number	Description
2001	View Window	2004	Lid Gasket (SPECIFY MODEL)
2010	Glove Clamp	2011	Glove Insert
2023	24" Unlined Gloves (Pair)	4056	Lid Gasket (SPECIFY MODEL)
4056	Window/Door Gasket (SPECIFY MODEL)	2027	Window Frame (SPECIFY MODEL)
2057	*12 Pack Mylar Shields	2032	Foot Pedal, Valve Only
2302	Food Pedal Valve ONLY	7013	35 CFM Tungsten Carbide Nozzle
DC4100H	5" Flex Hose	7014	35 CFM Orifice
DC4100	Cartridge Filter	7015	Hose Barb
2056	Flat Filter	2031HD	Foot Valve Complete with hose
2040	Gas Assist Spring	DC4200	Dust Collector Motor
2025	Blast Hose	DC4101	* Cloth Filter Wrap





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ATTENTION	MODEL HD-4836 PARTS & INSTRUCTION MANUAL
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Cycloneblast cabinets produce a powerful flow of abrasive particles. To avoid personal injury and property damage, read this manual thoroughly before operating. Keep manual handy for future reference and replacement parts list. ***Safety alert signal words based on ANSI Z535.4-1998 are used to alert the user of a potentially hazardous situation that may be encountered during operation of this equipment. ANSI definitions are as follows.***

- CAUTION

{

Caution used without the alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

}
- CAUTION

{

Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate damage.

}
- WARNING

{

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

}
- DANGER

{

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

}
- CAUTION

{

}

- Follow all electrical and safety codes as well as the National Electric Code (NEC) and the Occupational Safety & Health Act (OSHA).
- Follow assembly instructions BEFORE plugging system into electrical or air supply. Always unplug blaster before changing light bulb to avoid electrical shock or damage to the lamp holder.

- CAUTION

{

}
- The unit is equipped with a 3 prong grounding plug for your protection against electrical shock. Use only adequate extension cords with 3 prong grounding type plugs which are appropriate for long periods of use. Replace damaged or worn extension cord(s) immediately. Use a 3 prong receptacle to plug system or extension cord into.
 - Make sure power source conforms to the requirements of your equipment.
 - This is a dry blast system. It is not made to accommodate use with anything liquid or metal.
 - Change blasting material regularly. Continued use of abrasives will result in poor performance and excess dust.
 - DO NOT exceed recommended maximum air pressure of 120 PSI.
 - Check and clean dust collection system and filters regularly. Do not wait until dust is escaping from dust collection housings and/or blast cabinet before cleaning the system.
 - Do not use steel shot in this cabinet. Use of steel shot in this cabinet will void the warranty and could possibly injure the operator.

- WARNING

{

}
- Keep any spilt blast abrasive clear from all paths around and near the blast cabinet. Many blast abrasives are powder fine and can be very slippery, causing a person to slip and fall.
 - Silica sand should be avoided for use in blast systems for health reasons.

- DANGER

{

}
- DO NOT OPERATE CABINET WITH LID AND/OR DOOR OPEN! THIS WILL RESULT IN SKIN DAMAGE, SERIOUS EYE DAMAGE OR BLINDNESS AND OTHER HEALTH RISKS IF THE BLAST STREAM WERE TO COME INTO CONTACT WITH PARTS OF THE BODY.
 - This system is assembled with a standard 1/4" thick clear acrylic view window. Replacement with tempered or single strength glass is DANGEROUS. Replacing view window with material other than acrylic will result in dangerous glass breakage that can injure the operator or bystanders.
 - NEVER USE ANY TYPE OF FLAMMABLE OR COMBUSTABLE MATERIAL IN THIS BLAST SYSTEM.

SYSTEM OPERATION | FAILURE TO READ THIS WILL RESULT IN POOR PERFORMANCE

This system's blast system draws abrasive from the media separator. The dust collector draws media from the cabinet hopper into the media separator. This ensures that the blast system has clean abrasive. An abrasive aeration system is in place to help assist in this process. See helpful hints for more on this system.

The HD4836 Industrial Blast Cabinet requires some basic setup prior to use. Once done, usually further changes are not necessary. There are several ball valves on this system. IN MOST CIRCUMSTANCES never open any ball valve to the FULLY OPENED position. By doing so, you overwhelm the system with air, media, or both. This will cause the system to clog and results in poor or no blast performance.

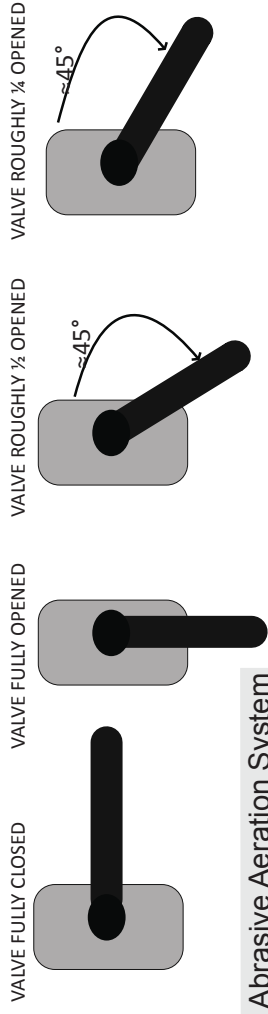
Prior to shipping, our technicians test the blast system and tune the ball valves in order to make the system as easy as possible for you. Changes in media type, air supply, or any variant could require additional changes the ball valves. You should test the system prior to changing the position of any ball valves.

Prior to blasting, turn the electrical system on including the dust collector. Allow the dust collector to operate several minutes before blasting. This fills the media separator as mentioned above.

INSTALLATION

- 1. Unwrap plastic from cabinet. Open front lid.
- 2. Cabinet is fully assembled, once you place cabinet you can place the foot pedal on the floor.
- 3. Electrical system is already installed. Light bulbs are not included. Use 70 watt max bulbs.
- 4. Rough service light bulbs are recommended.
- 5. Connect cabinet electrical supply to appropriate 3-prong, grounded receptacle. If unsure about electrical, consult manufacturer or electrical professional.
- 6. Pour approximately 10-15 pounds of new abrasive blast media into cabinet hopper.
- 7. Place your part or parts inside the cabinet
- 8. Close front door and ensure latches are securely latched.
- 9. Connect air hose from foot pedal to inlet on left side of cabinet. Use teflon tape or appropriate thread sealant on connection to reduce the possibility of air leaking.
- 10. Attach your air supply to the foot pedal valve assembly. The foot pedal assembly is a 1/4" NPT female thread. Use teflon tape or appropriate thread sealant to reduce the possibility of air leaking.
- 1.1. Locate electrical switch on top of cabinet and turn it on. This will activate both the lights and dust collection system.

Ball Valve Operation Where valves are mentioned, use this guide to assist with their operation.



Abrasive Aeration System

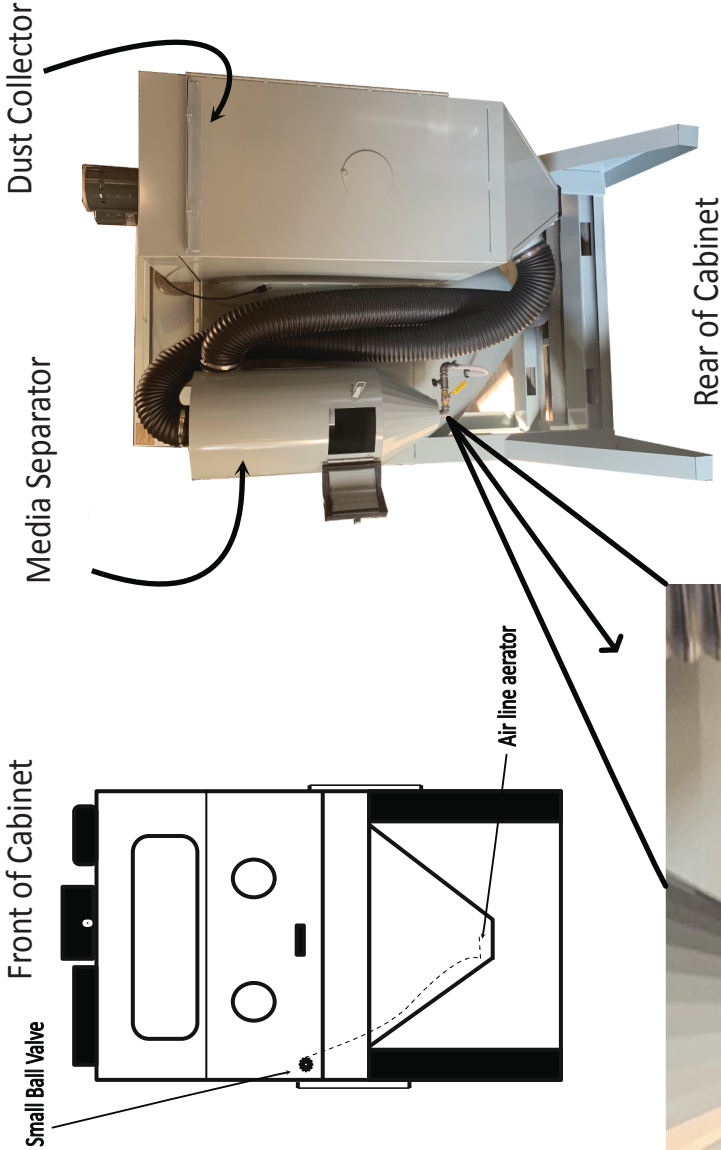
There us a small ball valve located at left inside the cabinet. It is part of an abrasive aeration system. The valve should never be open all the way. Doing so may cause damage to your cabinet and void the warranty. The valve needs only be open ¼ turn or less. It aerates the abrasive at the bottom of the hopper providing airborne media for the dust collector to draw into the media separator. If you are not getting enough abrasive in the blast system, slowly open the valve to add more aeration to the abrasive.

See last page of manual for image of valve

BASIC OPERATION

- 1. Place hands into gloves, hold the blast gun.
- 2. Depressing the foot pedal will cause the blast system to begin flowing.
- 3. Make absolutely certain to keep the spray pattern moving in a circular motion. In time users will develop personal methods for obtaining the best results from the blast system. Proper blast pattern ensures a more even result on the surface of the piece(s) being blasted.

! WARNING DO NOT POINT BLAST GUN SYSTEM AT THE VIEW WINDOW! This will cause the window to irreparably frost and be damaged - RESULTING IN PERSONAL INJURY.



As noted, we do our best to tune the system and adjust valves prior to shipping. We test the system with a small amount of abrasive to ensure that when it leaves, it is ready to blast. The photo at the left shows the valves on the back of the cabinet. DO NOT change them until after you attempt to first blast.

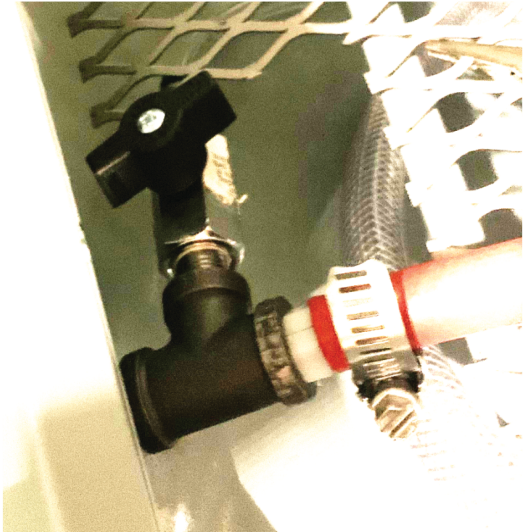
Tuning the valves usually requires MINOR changes, do not fully open the valves or poor or no performance will result. Small changes are best. The ball valve with the longer yellow handle controls the flow of abrasive into the system. The small ball valve on top (colors may vary) controls the air mixture into the system.

There is no exact means of tuning. Air conditions, media conditions, and other environmental conditions effect the system. The key is small changes.



ADDITIONAL INFORMATION

Abrasive aeration system control valve. Located inside cabinet on left side. Valve color may vary.



Expanded view of blast gun.



PLEASE NOTE THAT THERE IS A SMALL LENGTH OF WIRE WITH AN ALLIGATOR CLIP BETWEEN THE GUN AND STEEL GRATE. DO NOT REMOVE IT. Due to the extremely high flow of abrasives produced within the cabinet, this wire dissipates static electricity that may be produced during use.

LIMITED WARRANTY

Cyclone abrasive blast cabinets are warrantied against defects in workmanship or materials in accord with the following terms:

- Warranty extends to original owner only.
- Warranty does not cover blast cabinets used in commercial rentals
- Warranty is valid for one (1) year following the date of purchase.
- Warranty does not cover standard wear items such as the nozzle, orifice, blasting material, window and gaskets.
- Warranty does not cover misuse of the blast cabinet. This includes the failure to follow instructions.
- Warranty does not cover blast unit if altered or otherwise changed from its original state form the factory.
- WARRANTY DOES NOT COVER DAMAGES IN TRANSIT:
IN SUCH CASES, THE RECEIVER SHOULD CONTACT THE FREIGHT CARRIER WITHIN 15 DAYS OF DELIVERY TO FILE A CLAIM. IT IS NOT THE RESPONSIBILITY OF THE MANUFACTURER OR SUPPLIER TO FILE THE CLAIM. IF ANY PARTS SHOULD BE REQUIRED TO FIX A FREIGHT DAMAGED UNIT, THE RECEIVER WILL BE BILLED ACCORDINGLY. THIS BILL CAN THEN BE TURNED OVER OT THE FREIGHT CARRIER. USERS SHOULD CALL THEIR DISTRIBUTOR OR THE FACTORY UPON INSPECTION/DISCOVERY OF ANY PROBLEM. A TECHNICAL PERSON CAN ASSIST. YOU.
- This warranty grants the user certain legal rights. Users and purchasers may also be protected by other rights that vary with location.
- NOTE: Except for the warranties set forth above, Cyclone makes no other warranties of any kind - express or implied. This includes warranties of merchantability or fitness of product for a particular purpose.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Excessive Dust	Dust collection system malfunctioning	Empty canister & replace or clean filter bag
	Abrasive Media worn out	Replace Media
	Too much media in hopper	Remove excess media
Uneven Blasting Action	Too much media in hopper	Cover hole in metal pickup tube with sleeve on tube
	Moisture present in air line	Install moisture separator
Inadequate speed or efficiency of blast	Media worn out	Replace with new media
	Worn blast gun parts	Inspect/adjust/replace parts
	Too much blast material	Remove excess material, 10-15 lbs. max
	Too much air	Regulate air to 70-90 PSI
Poor Blast Pattern	Nozzle worn	Replace nozzle
Static Electricity	Dry environmental conditions	Install static electricity band
	Change in humidity	Get lined gloves
		Stand on cardboard/rubber mat
	Faulty ground wiring	Get lined gloves
		Check electrical wiring

Many users experience poor performance because of improperly adjusted ball valves. If you are not able to adjust the system and obtain the performance you desire, we are here to help you. Please check that your valves are not fully opened prior to calling. Many issues are solved by closing the valves then slowly opening them. FULLY OPEN valves will cause the system to poorly perform or not perform at all.