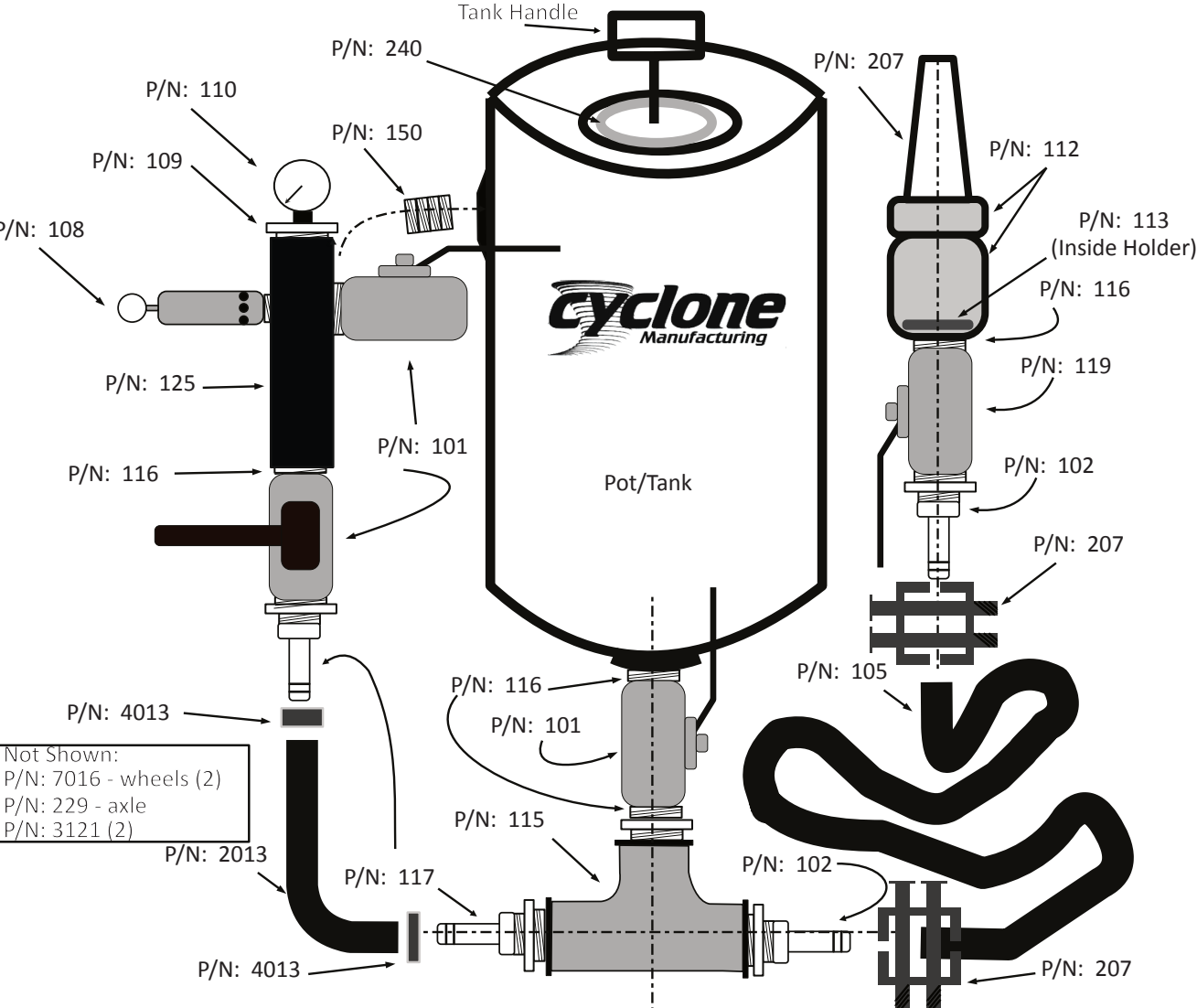


REPLACEMENT PARTS LIST

Part Number	Description	Part Number	Description
110	Air Gauge	207	1/8" Ceramic Nozzle (Standard)
109	1/2" to 1/4" NPT Reducer	*208	1/4" Ceramic Nozzle
115	1/2" Black Iron T	*209	3/32" Ceramic Nozzle
116	1/2" Black Close Nipple	*210	3/16" Ceramic Nozzle
101	1/2" NPT Ball Valve (Mixing Valve)	*211	5/32" Ceramic Nozzle
119	1/2" Carbon Steel Ball Valve	*212	5/16" Ceramic Nozzle
108	Pressure Relief Valve	102	1/2" x 1/2" (Steel) Hose Barb
115	1/2" Black Pipe Tee	105	1/2" ID Sandblast Hose (10' minimum length)
117	1/2" x 3/8" Nylon Barb	2013	3/8" ID Air Hose
112	Nozzle Nut & Holder	103	1/2" 2-Bolt Hose Clamps
113	Nozzle Gasket	240	Tank Seal
4013	Hose Clamp	125	Manifold

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



PO Box 815
Dowagiac, MI 49047
269-782-9670 (phone)
269-782-9623 (fax)

info@cycloneblasters.com * cycloneblasters.com

ATTENTION

Cyclone blast 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.



DANGER

This unit operates under very high pressure when attached to an air supply and before the pressure has been bled off. Whenever any type of maintenance, clean-up, or shut-down is attempted, the unit **MUST BE DISCONNECTED** from the air supply and the air exhausted/removed from the tank. Failure to do so could result in serious personal injury and/or property damage.

CAUTION

1. Follow all electrical and safety codes as well as the National Electric Code (NEC) and the Occupational Safety & Health Act (OSHA).



OPERATION

! DANGER BEFORE YOU OPERATE THE UNIT, BE SURE THAT YOU HAVE ADEQUATE HAND, HEAD, AND FACE PROTECTION. A RESPIRATOR IS RECOMMENDED, ESPECIALLY IF/WHEN USING SILICA SAND.

1. This unit arrives completely assembled. Fill the unit with abrasive through the opening in the top of the tank.
2. Air connection is accomplished by the owner. Supply and attach a 1/2" air hose with a quick disconnect fitting to the air inlet in the rear of the tank.

3. Before turning on the air system, make sure that the air inlet valve and the valve at the nozzle end are closed.
4. Connect air system and at the same time, hold the handle of the tank closure up. Slowly open the air inlet valve.
5. The pressure gauge should rise and the handle should be held in place by the pressure building in the tank.
6. THIS UNIT HAS A PRESSURE RELIEF VALVE DESIGNED TO RELEASE AT 150 P.S.I. ***DO NOT EXCEED 120 P.S.I.***
7. The choke valve, located just under the inlet valve is used to supply air pressure to the media as it is flowing out of the tank during operation. This valve should be set at the half open position and adjusted to keep the flow smooth and even.
8. The mixing valve at the bottom of the tank is adjusted to determine the amount of sand flowing through the nozzle. A lean mixture works best.

! DANGER DO NOT RUN PRESSURE OVER 120 P.S.I

! CAUTION YOU ARE FINALLY READY TO BLAST. THIS IS DONE BY OPENING THE NOZZLE END VEALVE TO THE FULL OPEN POSITION. THIS VALVE SHOULD BE IN EITHER THE FULLY OPEN OR FULLY CLOSED POSITION AND NEVER LEFT IN A THROTTLLED OR INTERMEDIA POSITION. THIS WILL CAUSE THE VALVE TO RAPIDLY WEAR OUT.

SHUTTING DOWN THE UNIT

1. Close the nozzle valve completely.
2. Close the air inlet completely. NOTE: The choke and mixing valve need not be closed.
3. Disconnect the compressor air supply at the disconnect.
4. SLOWLY, bleed off air pressure in the tank by opening the air inlet valve.
5. The pressure gauge should indicate the pressure releasing.
6. When the pressure is released from the tank, the handle will fall into the tank.

MAINTENANCE

1. The nature of this blasting system makes it impossible to guarantee the nozzle, nozzle valve, nozzle hose barb and nozzle nipple. These are considered high wear items and should be checked and replaced as needed on a regular basis. This makes it very important to operate the unit with the nozzle valve in the fully open position and not use the nozzle valve as a flow control.
2. A ceramic nozzle will last approximately 4-6 hours of use before it is worn to a point where requires replacement.
3. Tungsten carbide and boron carbide nozzles last longer and are available as well.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Sand-air mix stops completely	Proper valves are not open.	Open valves according to these instructions.
	The nozzle is clogged.	SHUT DOWN UNIT BEFORE UNCLOGGING OR UNSCREWING THE NOZZLE NUT.
Surging or sputtering	Usually related to improper air/sand mixture.	Close the mixing valve on the bottom of the tank and reopen it until the proper flow is reached.
	Worn nozzle	REMEMBER - the leaner (less media to air ratio) the better.
	Insufficient Air Supply	Replace nozzle.
	No abrasive in the tank.	The minimum air pressure in the tank is 70 P.S.I.
Air only coming out of the nozzle	Wet or damp media clogging the mixing valve.	SHUT UNIT DOWN AND BLEED/REMOVE PRESSURE before proceeding. This problem is caused by wet abrasives from wet air. If this happens, install a good airline moisture separator as appropriate in your airline near the blaster if the condition persists.

LIMITED WARRANTY

Cyclone abrasive blast systems are warranted 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 system. 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.