INSTALLATION & OPERATION MANUAL

Atlas Bead Seater (ABS)

Portable Bead Blaster

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NOTE: The following are used throughout this manual to indicate important points in the operation and maintenance of the Atlas Bead Seater.

	Indicates the operations which need proper care
	Indicates prohibition
	Indicates a possibility of danger for the operators
BOLD TYPE	Important information

INTRODUCTION

Thank you for purchasing the Atlas Bead Seater. Read the entire manual thoroughly and make sure you understand it before initial use. Always follow the instructions and safety guidelines provided in this manual to ensure the correct operation and long life of the unit.

IDENTIFICATION DATA

When possible make note of any serial or identification numbers and keep that as well as copy of your invoice on hand in case of questions or warranty issues.

MANUAL

After you have read this manual we recommend the following:

- Keep the manual in an easily accessible place.
- Keep the manual in an area protected from the damp.
- Require all users to thoroughly read and understand this manual before use of the Atlas Bead Seater.

GENERAL SAFETY PRECAUTIONS

- Any tampering with or modification of the Atlas Bead Seater is strictly prohibited.
- Removing or tampering with safety devices immediately voids any and all warranties.
- If the Atlas Bead Seater is modified in any way or used in a manner not described in this manual the Distributor and/or Manufacturer will not be held responsible for damage or personal injury that occurs.

TO THE READER

Every effort has been made to ensure that the information contained in this manual is correct, complete and up-to date. The manufacturer is not liable for any mistakes made when drawing up this manual and reserves the right to make any changes due the development of the product, at any time.

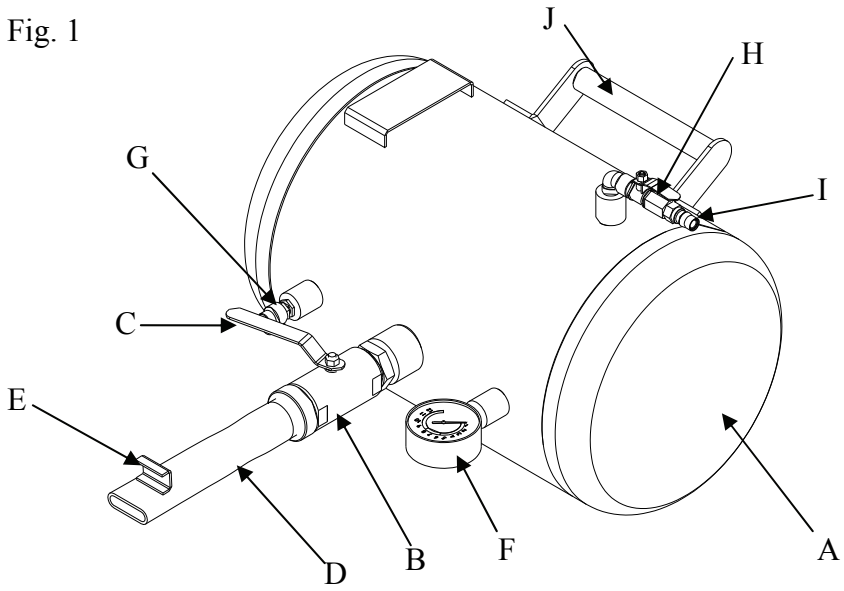
GENERAL INFORMATION

INTENDED USE

- The Atlas Bead Seater provides a portable and versatile high pressure/high volume air supply meant to seat the bead of a tire onto the rim so that the tire can be reinflated.
- **THE MANUFACTURER or THE DISTRIBUTOR** cannot be held responsible for any damage caused through the use of this bead seating tool for purposes other than that described above.

DESCRIPTION

Fig. 1



A Air tank
B Release valve
C Release valve handle
D Nozzle
E Nozzle flange
F Pressure gauge
G Safety release valve 10bar
H Ball valve
I Air line connector
J Handle

TECHNICAL SPECIFICATIONS

Maximum pressure rating	145 psi (10 bar)
Tank volume	4.5 gallon
Working temperature	32 °F - 212 °F
Net weight	20 lbs.

UNPACKING, TRANSPORTATION AND STORAGE

UNPACKING

When you first receive the Atlas Bead Seater check to see that it has arrived in good condition, with no signs of shipping damage, and that you can identify each of the parts named in figure 1. The tool should arrive fully assembled except for the barrel (D) which must be fitted before use. To fit the barrel (D), thread it firmly onto the air release valve (B).

Read the following instructions and safety information before use.

TRANSPORTATION AND STORAGE

	**NEVER STORE OR TRANSPORT A CHARGED TANK!**

Discharge any air inside the Atlas Bead Seater before storing. The bead seating tool should be stored with the handle up and the valves open. This allows any moisture to drain from the tank and protects the barrel and other attachments from damage.

SAFETY

The Atlas Bead Seater uses compressed air and should only be used by someone who has completely read and understands this manual. The following safety procedures must be observed at all times.

ASSEMBLY

Before use always check that the nozzle is correctly installed. The nozzle should be securely attached and in the correct position.

AIR REQUIREMENTS

The maximum working pressure of the Atlas Bead Seater is 145 psi. There is a pressure relief valve to prevent the tank from overfilling. DO NOT disable the relief valve. The bead seater should always be filled with clean, dry, room temperature, oil free air.

HEARING PROTECTION

The Atlas Bead Seater produces high levels of noise. Hearing protection must be worn at all times when using the Atlas Bead Seater.

EYE PROTECTION

The Atlas Bead Seater can cause blow back of debris and other material that can seriously injure eyes. Protective goggles must be worn at all times when the tool is in use.

EXPLOSION RISK

Whenever using the Atlas Bead Seater on a tire consider the following first:

- Is the tire damaged? Is the tire dry-rotted? Is the tire correctly sized for the rim?
  NEVER inflate a damaged or otherwise unsound tire.
- If the tire is on a split rim is the locking ring in place?
  ALWAYS inflate multi-piece and wheels equipped with locking rings inside a safety cage.
- What is the inflation rating of the tire?
  NEVER over inflate a tire.

GENERAL OPERATION

	**Never transport or store the tank under pressure.** **Never aim the Atlas Bead Seater at yourself or another person.** **Never use the Atlas Bead Seater to dust or clean anything.** **Never use flammeable solvent on a tire before using the bead seater.**

	**Before using the Atlas Bead Seater make sure that the tire bead is properly lubricated.**

FILLING THE TOOL

The bead seating tool can be filled from virtually any common compressed air supply.

- Follow the Air Pressure Reference Table to determine the correct air pressure range for the tire type that most closely matches the tire you are inflating.
- Close the air release valve (B). Connect your air supply to the air line connector (I). Open the ball valve (H) to fill the tank.
- Close the ball valve (H) when the pressure gauge (F) indicates the correct tank pressure has been reached. Disconnect the air supply from the connector.

AIR PRESSURE REFERENCE TABLE

Vehicle Type	Tire Size	Recommended Tank Pressure
ATV,UTV, or Golf Car	16-650-8 22-11-8 25-12-9 24-9-11	40 psi (2.7 bar)
Lawn Tractor or Riding Mower	16-650-8 23-1050-12 26-12-12	40-50 psi (2.7-3.4 bar)
Car / Light Truck	13” Wheels 14” Wheels	50-60 psi (3.4-4.1 bar)
4X4 or Off Road Vehicle	15” Wheels 16” Wheels	60-80 psi (4.1-5.4 bar)
Medium or Heavy Truck	11-22.5 18-22.5	100 psi (6.8 bar) 120 psi (8.2 bar)
Tractor or Small Ag Equipment	Up to 28” Over 28”	100 psi (6.8 bar) 120 psi (8.2 bar)
Large Tractor or Ag Equipment	Terra Tires 48-31-20 66-43-25	120 psi (8.2 bar)

	The pressures listed in the table are a recommendation only. You may adjust the pressures up or down as needed. Increase the pressure if the air blast does not lift the tire bead enough to seat the bead on the wheel. Reduce the pressure if the tire bead appears to seat at first and then drops free.

SEATING A HORIZONTAL TIRE (ref, fig. 2)

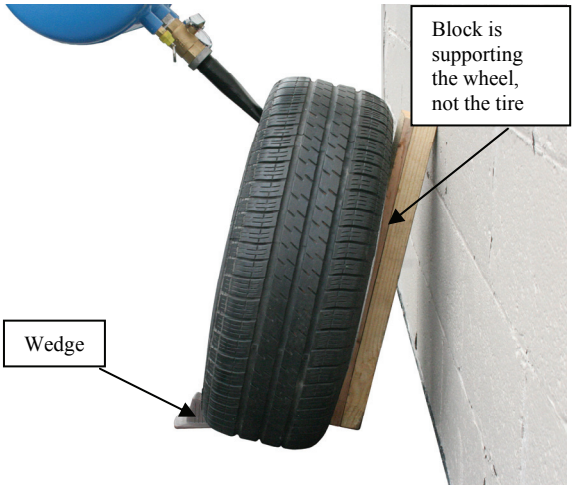
- Secure the wheel flat on a tire changer or stand so that the lower side wall of the tire is slightly above the floor or turntable.
- Push the lower tire bead against the bottom flange of the wheel. This will create a seal to trap air inside the tire.
- Connect a inflation chuck and hose to the valve stem to allow complete tire filling after the bead has been seated.
- Turn the nozzle (D) until the nozzle flange (E) is on top. Secure the nozzle by tightening the locking nut firmly by hand.
- Hold the tool at a 45 degree angle from the wheel and set the nozzle flange (E) on the upper edge of the wheel. Make sure the nozzle (D) is pointing directly into the opening between the tire and wheel. Placing the nozzle opposite the valve stem will provide the best inflating performance.

	The angle of the nozzle in relation to the wheel is the key to acheiving good results. A shallow angle directs the air at the wheel flange and not into the tire. A high angle will cause the air hit the outside of the tire and not into the opening. Position the nozzle (D) so that the it points directly into the opening between the tire and wheel. The best location to locate the nozzle is directly opposite of the valve stem. This allows the tire to be inflated from both sides. The nozzle should be placed in the area where the opening is widest. This ensures that the maximum volume of air enters the tire, raising the bead higher in the area where it is most needed. Limit the size of the opening between the tire and wheel whenever possible to allow more air to be trapped inside the tire.

- Clear the area of bystanders before releasing any air from the Atlas Bead Seater.
- To release the air into the tire, hold the handle (J) firmly in one hand and use the other to turn the release valve handle (C) quickly to the open position. Once the bead is seated, continue inflating the tire to correct pressure using the inflation chuck.

Fig. 2 – Inflating in a horizontal position

Fig. 3 – Inflating in a vertical position



SEATING A VERTICAL TIRE (ref. Fig. 3)

Use a vertical/upright position only when tire is heavy or there is a larger than normal opening between the wheel and the tire bead.

	**IMPORTANT!** **The wheel must be tilted back at a slight angle and be supported by a block or a wedge. Block the wheel out from the wall to prevent the inflated tire from violently striking the wall. Allowing the tire to contact the wall can cause it to suddenly fall forward and injure the user.**

- Position the wheel with the valve stem at the bottom. The front side or widest flange of the wheel should be facing away from the wall. The rear bead of the tire should be against the wheel to trap the incoming air.
- Connect a inflation chuck and hose to the valve stem to allow complete tire filling after the bead has been seated.
- Rotate the nozzle (D) so that the nozzle flange (E) is facing down. Secure the nozzle, tightening the nut firmly by hand.
- Position the tool at 45 degree angle from the wheel (pointing downward). Place the nozzle flange (E) at the top of the wheel and against the edge of the wheel flange. Point the barrel into the opening between the tire and wheel.
- Clear the area of bystanders before releasing any air from the Atlas Bead Seater.
- To release the air into the tire, hold the handle (J) firmly in one hand and use the other to turn the release valve handle (C) quickly to the open position. Once the bead is seated, continue inflating the tire to correct pressure using the inflation chuck.

MAINTENANCE

GENERAL WARNINGS

	DAMAGE CAUSED BY MISUSE OR CUSTOMER ERROR WILL NOT BE COVERED UNDER WARRANTY!

- Regular maintenance as described below is essential for correct operation and long life of the Atlas Bead Seater.
- If maintenance is not carried out regularly, the operation and reliability of the tool may be compromised, thus placing the operator and anyone else in the vicinity at risk.
- Defective parts must be replaced exclusively by expert personnel using the manufacturer's parts. Order the spare parts referring to the part diagram as shown in the figure 4.
- Removing or tampering with safety release valve is forbidden.

MAINTENANCE OPERATIONS

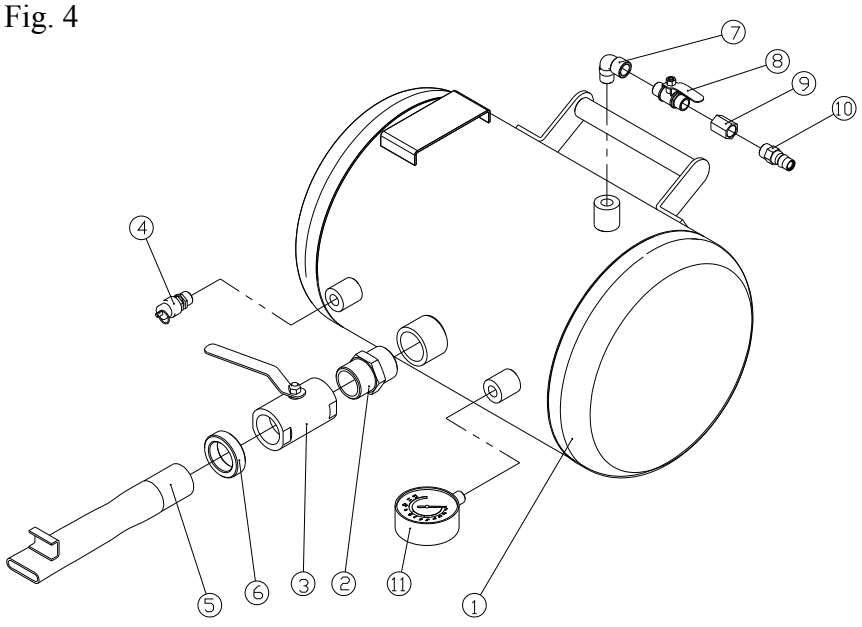
Ensure that the tank is inspected inside and out by a competent person before every use. Check that:

- The tank is in good condition. Check for cracks, dents, or anything else that may compromise its integrity.
- The valves are all in good condition and operate correctly.
- The barrel is not damaged or bent. Also check for any obstructions in the barrel.

PART DIAGRAM

	When ordering parts always give the following information if available: Description, Serial Number, and or Invoice Number.

Fig. 4



1 Air tank
2 Male to male adapter
3 Release valve
4 Safety release valve 10bar
5 Threaded nozzle
6 Lock nut
7 90° nipple
8 Ball elbow
9 Nipple female
10 Air line connector
11 Pressure gauge