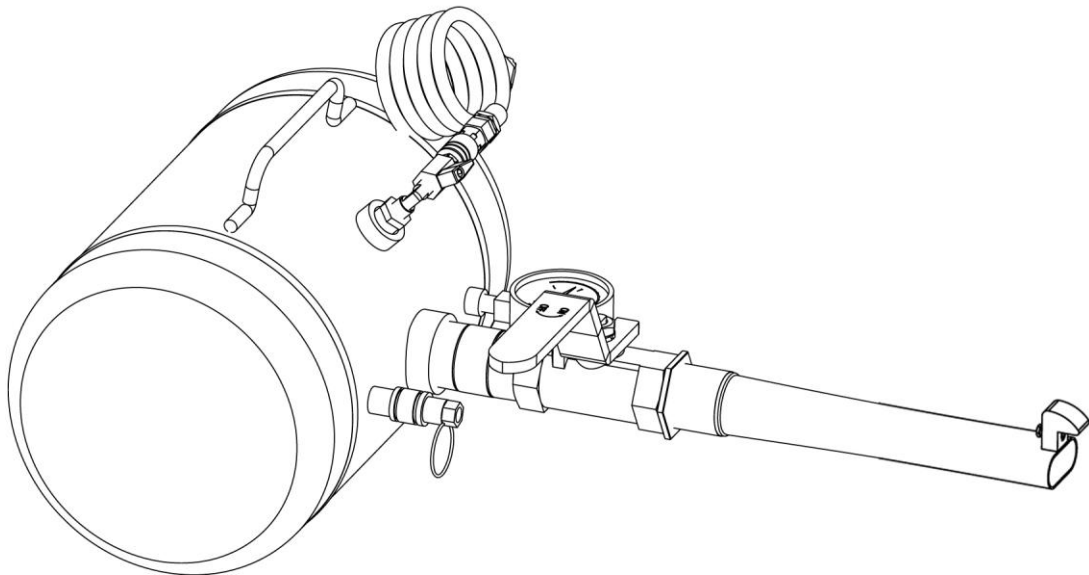




2-in-1

AIR TANK AND BEAD BLASTER

OWNER'S MANUAL



WARNING:

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# STF-05GATBB

Thank you very much for choosing a Shop Tuff product. For future reference, please complete the owner's record below:

Model: _____STF-05GATBB_____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

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

For technical questions please call **1-952-938-5222**.

TECHNICAL SPECIFICATIONS

5 Gal. ASME certified tank
Max. air pressure 150 psi
ASME certified safety valve
25ft. coil air hose

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this air tank and bead blaster until they have read this manual and have developed a thorough understanding of how the air tank and bead blaster works.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

WORK AREA

- **Keep work area clean**, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- **Keep children and bystanders** away while operating the air tank and bead blaster. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.
- **Be alert of your surroundings.** Using the air tank and bead blaster in confined work areas may put you dangerously close to cutting tools and rotating parts.

PERSONAL SAFETY

- **Stay alert**, watch what you are doing and use common sense when using the air tank and bead blaster. Do not use the air tank and bead blaster while you are tired or under the influence of drugs, alcohol or medication, doing so may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.

AIR TANK AND BEAD BLASTER USE AND CARE

- **Do not modify the air tank and bead blaster in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the air tank and bead blaster was designed.
- **Always check for damaged or worn out parts before using the air tank and bead blaster.** Broken parts will affect the air tank and bead blasters operation. Replace or repair damaged or worn parts immediately.
- **Storage of air tank and bead blaster.** When air tank and bead blaster is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

PRE-OPERATION

Make sure that you have received your bead blaster in good condition with no signs of damage before beginning operation.

ASSEMBLY (Refer to parts and diagram on last page for reference)

The Bead Blaster should be received fully assembled except for the threaded tank (Part #10) which must be firmly threaded onto the air release valve (Part # 8) before use. Make sure tank flange (Part 11) is facing up.

When air hose assembly (Part # 14) is needed connect to air coupling (Part # 13).

Familiarize yourself with the components of the bead blaster as well as the instructions and safety information before using this product.

OPERATION

FILLING THE BEAD BLASTER WITH AIR

This can be accomplished by using any general commercial compressed air source. Please refer to the tank pressure information table for additional information on tire type and suggested tank pressure before continuing.

1. Check that the air release valve (Part # 8) is closed and then attach the air supply line to the air connector (Part # 2) on the bead blaster.
2. Open the air intake valve (Part # 3) to fill the air tank to the desired air pressure. Once this pressure has been reached, as indicated by the pressure gauge, close the air intake valve.
3. Disconnect the air supply line from the air connector.

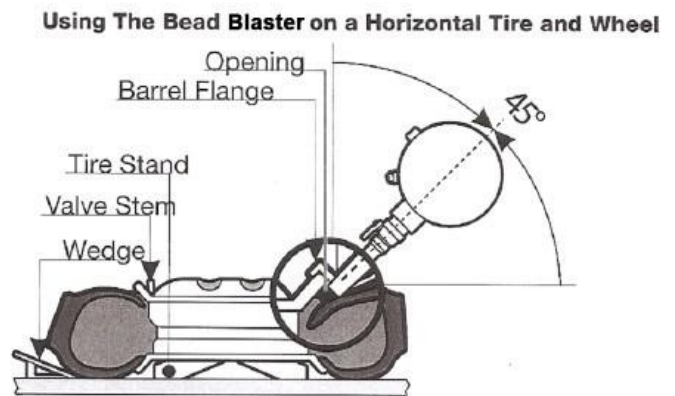
USING THE BEAD BLASTER:



WARNING: ALWAYS wear OSHA and ANSI approved safety gloves and eye protection when using the air tank and bead blaster. Be sure the area is clear of bystanders or hazardous materials before operating.

Horizontal position for tire/rim:

1. Position the tire and rim on the tire stand so that the lower side wall of tire is slightly off the floor.
2. Make sure to seat the lower tire bead onto the rim.
3. Before seating the bead, make sure the tank flange (Part # 11) is facing up. Rotate the tank to this position if necessary before continuing.
4. Position tank at approximately a 45 degree downward angle and place the tank flange (Part # 11) on the upper edge of the rim, opposite the tire valve, into the opening between the tire and rim.
5. Hold the bead blaster **firmly** by the handle, using the other hand, quickly turn the air release valve to open, releasing air into the tire.
6. Once the tire bead is successfully seated, connect an air supply line to the tire valve to inflate tire to the correct pressure.
7. **Note:** If tire bead does not stay seated on rim, operator may have to connect an air line to tire valve stem prior to step 5.



Vertical position for tire/rim:

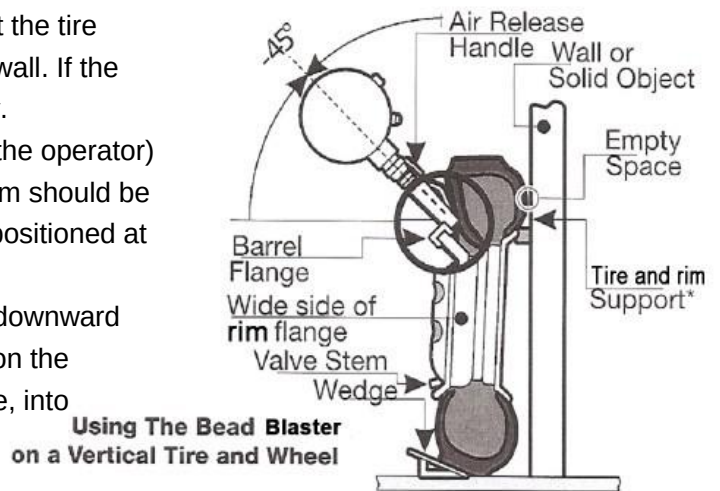


CAUTION: ONLY use this method when there is a large gap between the rim and tire bead OR if the tire is too heavy.



WARNING: If the tire and rim is not properly supported, it may fall forward when inflating, causing harm to the bead blaster and bead blaster operator. ALWAYS USE EXTREME CAUTION!

1. Position the tire and rim so that it is tilted slightly back, secure tire with a tire wedge. Make sure that the tire and rim is supported slightly away from the wall. If the tire and rim fall forward, it could cause injury.
2. Seat the back bead of the tire (furthest from the operator) onto the rim. The open side of the tire and rim should be facing the operator with the tire valve stem positioned at the bottom of the tire.
3. Position tank at approximately a 45 degree downward angle and place the tank flange (Part # 11) on the upper edge of the rim, opposite the tire valve, into the opening between the tire and rim.



4. Hold the bead blaster **firmly** by the handle, using your other hand; quickly turn the air release valve to open to release air into the tire.
5. Once the tire bead is successfully seated, connect an air supply line to the tire to inflate the tire to the correct pressure.
6. **Note:** If tire bead does not stay seated on rim, operator may have to connect an air line to tire valve stem prior to step 4

OPERATING THE AIR RELEASE HANDLE

During seating operation, always turn the air release valve handle fully and in one quick, fluent motion.

LUBRICATE

Make sure all tire beads are lubricated properly before using the bead blaster. Failing to lubricate beads may result in poor seating.

BEAD BLASTING ANGLE

Always hold the bead blaster so that the tank points directly into the gap between the tire and rim, approximately 45 degrees from vertical or horizontal depending on tire/wheel position. This must be done to ensure proper seating of the tire bead.

BEAD SEATING TOOL APPLICATION

For the most effective position to apply the bead seating, position the tire and rim so that the bead blaster is opposite the tire valve or where the gap is largest. This will allow the tire to receive the maximum amount of air supply.

NEVER STORE OR TRANSPORT A CHARGED BEAD BLASTER. ALWAYS CHARGE BEFORE USE AND DISCHARGE AFTER USE!



WARNING: Be cautious of compressed air hazards including keeping the air tank and bead blaster away from flammable materials and vapors.

AIR SUPPLY/CHARGING

The pressure relief valve has been tested and cannot exceed 150 psi. Make sure that the bead blaster is only charged immediately before use, and that it is charged from a clean, oil-free, dry air supply. It should only be charged from a low pressure airline system (up to 150 psi). Never fill with anything other than air at ambient temperature.

AIR TANK

Use air hose assembly with tire chuck to fill tire to desired pressure. **DO NOT OVER INFLATE TIRE.** Check air pressure with certified tire gauge.

NOISE SPECIFICATIONS



CAUTION: ALWAYS wear approved OSHA and ANSI hearing protection while operating this product.

(Using the assumption that the bead blaster is used on average, 6 to 10 times per day): Average Equivalent Noise Level is approx. (L/AEq) < 70 dB.

Peak C Weighted Instantaneous Sound Pressure = 135 dB = 112.46 (Measurements were taken discharging the bead Blaster into free air. The noise level is reduced when discharged in a tire and rim.)

EYE PROTECTION

ALWAYS wear approved OSHA and ANSI approved safety goggles when operating the air tank and bead blaster.

EXPLOSION RISK – TIRES

Before operating the air tank and bead blaster on a tire or inflating any tire:

- ALWAYS inspect the tire for damage.
- ALWAYS make sure that any locking ring is secured in place.
- ALWAYS use a safety cage for inflating large tires or tires at high pressures.
- DO NOT over inflate the tire.
- DO NOT inflate damaged tires.



WARNING: Do not use the air tank and bead blaster for any purpose other than what it was designed for. Specifically:

- DO NOT store or transport a charged tank
- DO NOT use it for blowing off equipment or people.
- DO NOT discharge the bead blaster when directed towards anyone.
- DO NOT clean a tire with a flammable material before using the air tank and bead blaster.
- DO NOT subject the tank to any stress or impact that could weaken it.

MAINTENANCE

1. **Maintain your air tank and bead blaster.** Check the bead blaster regularly for damage or signs of wear and make sure that the tank is inspected on an annual basis.

NOTE: NEVER TIGHTEN OR LOOSEN FITTINGS WHEN BEAD BLASTER IS CHARGED!

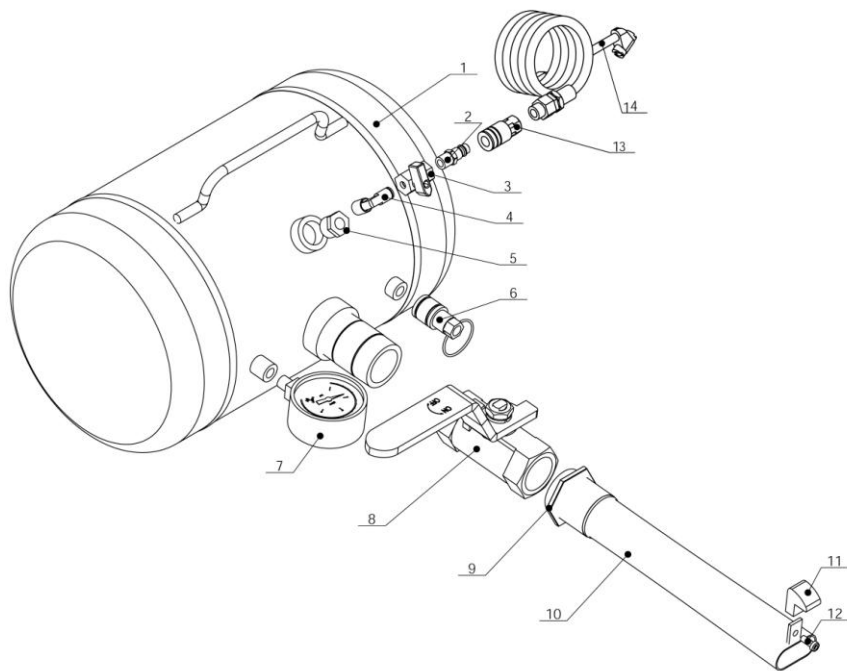
Items to check for:

- Ensure that there are no cracks in the tank or fittings.
 - Make sure that the tank is not damaged or bent and there are no obstructions to the tank.
2. **Drain the bead blaster regularly.** To do this, hang the air tank and bead blaster up with the tank positioned downward and open the air release valve.
 3. **Ensure air line safety.** An air line is designed to deliver maximum air volume and control by allowing the user to be hands free (from air line) during bead seating operation. Always use an appropriate air line for the type of tire you are inflating.

TANK PRESSURE REFERENCE TABLE – check your tire for exact specs

VEHICLE TYPE	TIRE TYPE EXAMPLES	SUGGESTED TANK PRESSURE	TIPS
ATV	16-650-8 22-11-8 25-12-9 24-9-11	40 psi	Seat bead on stand, with stand in highest position.
Lawn Tractor	16-650-8 23-1050-12 26-12-12	40-50 psi	Use the stand in the highest position.
Car	13" Rims 14" Rims	50-60 psi	Seat bead in horizontal position Lubricate well.
4 X 4	15" Rims 16" Rims	60-80 psi	Seat bead in horizontal position. Lubricate well.
Truck	11-22-5 18-22-5	100 psi 120 psi	Can be seated vertically. If using stand, use in the lowest position.
Tractor	Up to 28" Over 28"	100 psi 120 psi	Seat bead horizontally, seat the bottom bead on the rim, use the tire wedge.
Large Tractor	Terra Tires 48-31-20 66-43-25	120 psi	Seat bead vertically. Roll tire until the back bead is seated on rim.

DIAGRAM & PARTS LIST



No.	Description	Qty.
1	Air Tank	1
2	Air Connector (male)	1
3	Air Intake Valve	1
4	90° Bushing	1
5	3/4" - 1/4" Bushing	1
6	Safety Relief Valve	1
7	Pressure Gauge	1
8	Air Release Valve With Handle	1
9	Lock Nut (1-1/2" NPT)	1
10	Threaded Tank	1
11	Tank Flange	1
12	Screw (Φ5*30mm/Φ0.2"*1.18")	1
13	Air Coupling (female)	1
14	Air Hose Assembly with tire chuck	1

NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

For replacement parts and technical questions, please call **1-952-938-5222**.

WARRANTY

One-year limited warranty



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