



TIRE SERVICE INTERNATIONAL

CH-60

Cheetah Bead Seater with 60 Gallon Tank

buyTSI.com - 800.223.4540



Read this manual before operating

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Safety Requirements

1. Thoroughly read this manual before using this machine. Only personnel trained should operate this machine.
2. **WARNING:** Failure to properly secure the discharge assembly prior to discharge could result in serious injury or death.
3. **WARNING:** Do not allow the tire to over inflate! Failure to disconnect the air line feeding air into the tire's valve stem may risk tire damage and operator injury due to tire explosion.
4. Personal Protective Equipment must be used. This includes Safety Glasses, Ear Protection and Gloves.
5. Warn all personnel in area before tank discharge. The discharge of the CH-60 releases a tremendous amount of stored air pressure in a very short time. This process is very loud and ear plugs and safety goggles are required as there is a sudden, loud bang.
6. Always relieve air pressure in the tank before storing.

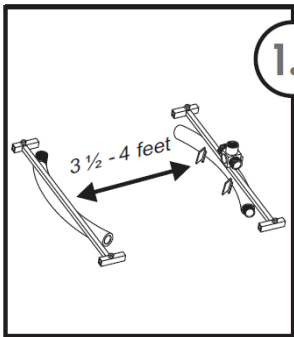
Installation Requirements

120 PSI Air Supply

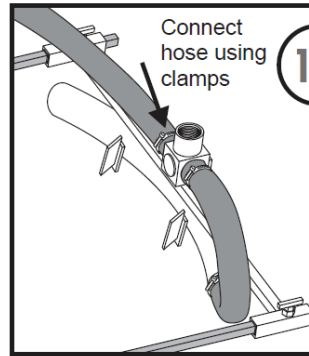
General Operating Notes

1. Important: Prepare the area by clearing any loose items.
2. Locate the tank for optimum operation of the nozzle for the tire and rim.
3. **WARNING:** Lock the two cam-lock handles down securely.
4. Attach an air line capable of 120 PSI to the regulator on the tank and fill the tank.
5. Lubricate tire beads and rim flanges with approved tire lubricant.
6. Once the tank gauge reaches 100 PSI (actual pressure required for bead seating will vary in relation to tire size) the tank is sufficiently charged.
7. Place the nozzle on tire pointing toward the rim, but just outside the rim. Reference the following pages for preparation.
8. Check area for safety (remove all loose objects on tire).
9. Announce to those in area of the pending sudden noise.

ASSEMBLY - DISCHARGE SYSTEM

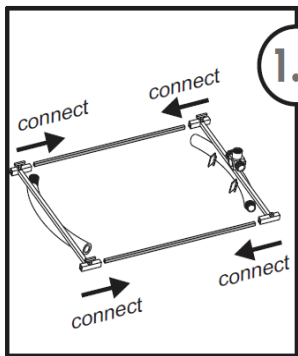


1.1 Locate the discharge barrel and the adjustable discharge barrel. Position the barrels about 3½ to 4 feet apart so that all four angled rim rests point inward.

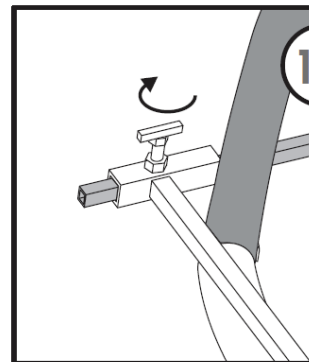


1.4 Secure the opposite end to the manifold opening on the discharge barrel and tighten the clamps to FULLY SECURE the 2" hose (6ft)

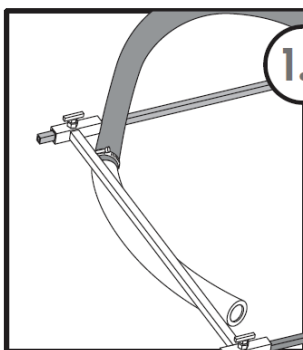
NOTE: Allow the distance between the barrels to be slightly greater than the diameter of your wheel. This ensures easier adjusting once the mounting process has begun.



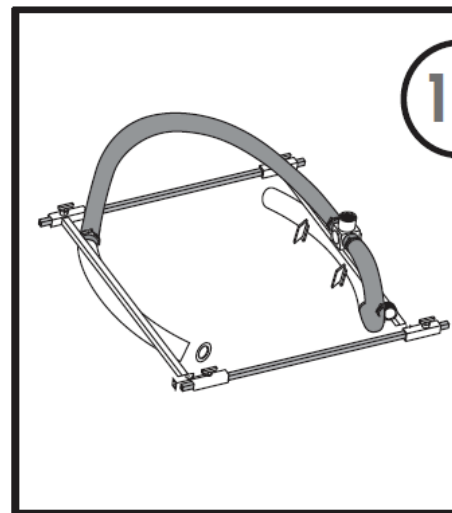
1.2 Connect the facing barrels using two adjusting rods by inserting each into the square sleeves located at the end of both the barrels.



1.5 Turn the locking T-handle to securely tighten the two adjusting rods into place on the discharge barrel side. The opposite side will remain adjustable for later use.



1.3 Locate the 2" hose (6ft) and two hose clamps. Place a clamp on each end of the hose and secure one end of the hose to the open end of the adjustable discharge barrel.



1.6 When completed the assembly should resemble Fig 1.6

PREPARATION - HORIZONTAL DISCHARGE

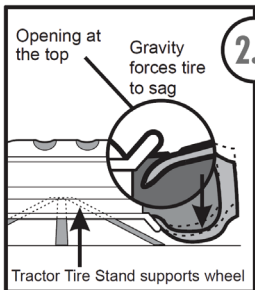


The 6411 Cheetah® Tractor Tire Stand is included and is designed to elevate larger wheels (24" - 54") when seating the bead.



The optional 01.111 Cheetah® Universal Tire Stand is designed to elevate smaller wheels (less than 24") when seating the bead.

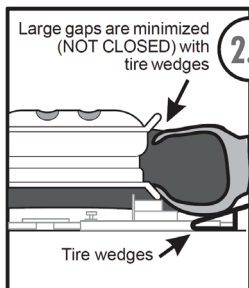
Depending on your wheel size, position your wheel on either the included #6411 Tractor Tire Stand or an optional #01.111 Universal Tire Stand. The use of a tire stand is recommended



2.1

and often required for safe effective bead seating. It ensures the proper air openings and restrictions essential to the air flow dynamics of the bead seating process. Lay the wheel down on the stand

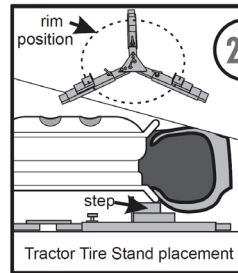
so that the rim itself is supported above the floor on the stand. This allows the tire to rest on the bottom bead of the wheel hindering any possible air escape route.



2.2

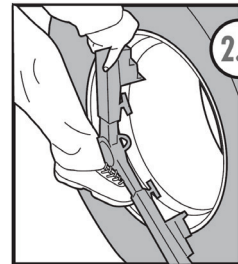
To minimize large openings, position the four included tire wedges underneath the sagging sidewall.

NOTE: When positioning Budd wheels on the Tractor Tire Stand be sure to connect the stand to the wheel using the included tie-down strap. Attach one end of the strap to the center loop on the stand and the other end to the wheel and tighten.



2.3

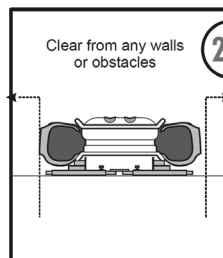
The Tractor Tire Stand can be adjusted to accommodate wheel sizes of 24" to 54". When properly adjusted the wheel rim should actually rest on the stand, elevating the wheel slightly above the floor.



2.4

Which 'step' on the stand your rim will rest on will vary depending on your wheel size. You may find it easier to adjust the stand for the correct size by actually holding the stand up to your tire for

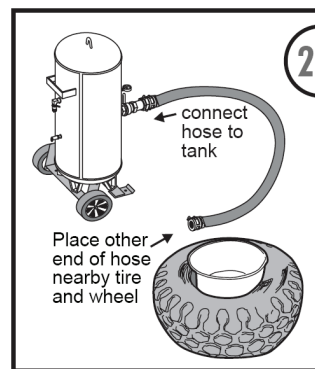
comparison while the tire is still in a vertical position.



2.5

Once adjusted, place the Tractor Tire Stand or Universal Tire Stand on a hard level surface in relation to any surrounding walls or obstacles to easily accommodate the tire size and a safe working area for

the CH-60 equipment, operator and all assisting personnel.

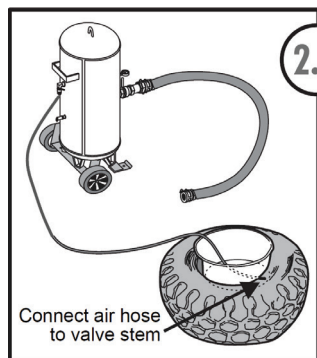


2.6

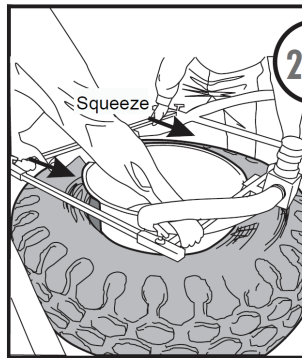
Position the tank to a close proximity of the tire and wheel. Locate and connect one end of the 2 1/2" hose with cam-lock to the large 2 1/2" female cam-lock on the tank. Lock the two cam-lock handles down

securely. Position the unattached end of the hose nearby the tire and wheel.

PREPARATION - HORIZONTAL DISCHARGE



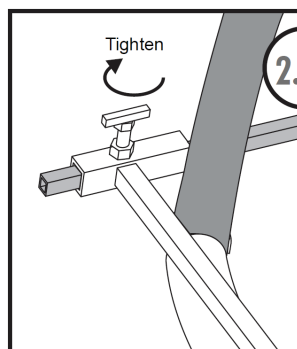
- 2.7** Locate the 10ft air hose and attach valve and hose to tank. Plug other end into your valve stem (with core removed)



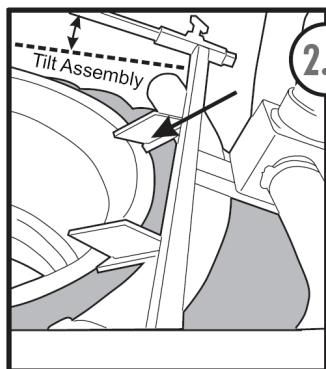
- 2.10** With one hand on the anchored manifold end of the assembly, both personnel should apply sufficient pressure to the opposite adjusting end, essentially squeezing the space between them down, allowing the adjusting end rim rests to secure properly.



- 2.8** This step is best performed with the cooperation of two personnel. Standing at opposing ends of the adjusting rods, pick up the discharge assembly using proper lifting techniques and position the assembly directly over the wheel.

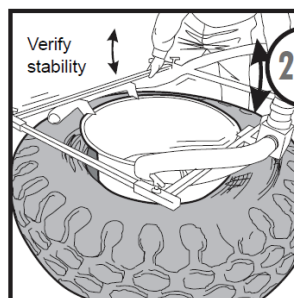


- 2.11** Once both sides of the discharge assembly that make contact with the rim are securely seated onto the rim, screw all T-handle bolts down tightly.



- 2.9** Gently tilt the assembly downward toward the wheel rim allowing the discharge barrel to rest on the wheel rim.

The elevated end of the assembly will usually need to be adjusted to allow the adjustable discharge barrel to rest snugly on the rim.



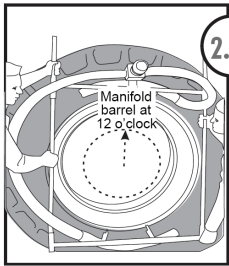
- 2.12** Physically pull up on the assembly to verify the strength of your connections. If any weakness or instability is observed re-secure and repeat until the assembly is securely in place.

NOTE: Loosening all T-handle bolts on the discharge assembly is recommended for making final adjustments.



Failure to properly secure the discharge assembly prior to discharge could result in serious injury or death.

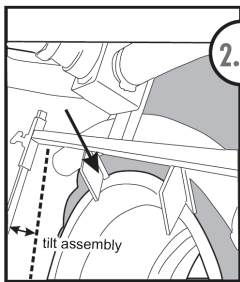
PREPARATION - VERTICAL DISCHARGE



2.13

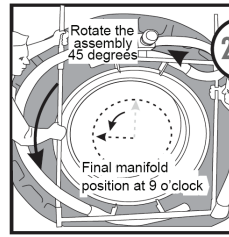
This step is best performed with the cooperation of two personnel. Standing at opposing ends of the adjusting rods, pick up the discharge assembly using proper lifting techniques

and position the assembly directly over the wheel so that the manifold discharge barrel is at 12 o'clock.



2.14

Hook the manifold discharge barrel rim rests on the rim. Secure the adjusting barrels rim rest at the 6 o'clock position on the wheel rim and tighten the T-handle bolts enough to avoid slippage.



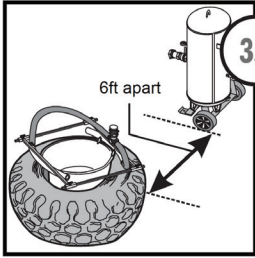
2.15

Carefully rotate the assembly so that the manifold discharge barrel is at the 9 o'clock position on the wheel rim. Some T-handle bolt loosening may be required especially in the event of a rim that is not perfectly round. Securely tighten all T-handle bolts once the assembly has been rotated. Physically pull up on the assembly to verify the strength of your connections. If any weakness or instability is observed repeat until the assembly is securely in place.

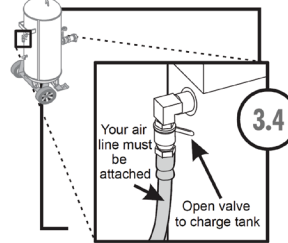


Failure to properly secure the discharge assembly prior to discharge could result in serious injury or death.

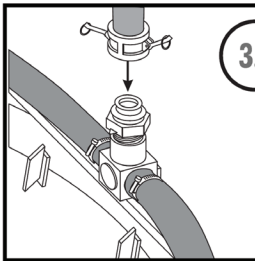
PREPARATION - TANK CONFIGURATION



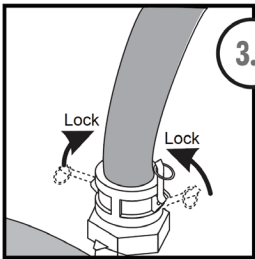
3.1 Whether seating the bead in the horizontal (as shown) or the vertical position make sure the tank is located no closer than 6ft from the tire.



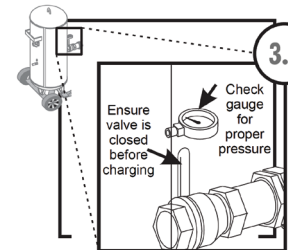
Attach an airline capable of 120 PSI to the ball valve on the tank. Ensure the 2" discharge valve on the tank is closed prior to tank charging. Open the ball valve to allow charging of the tank.



3.2 Locate the unattached end of the 2 1/2" hose with cam-lock and insert it on to the male end of the 2-way air manifold.



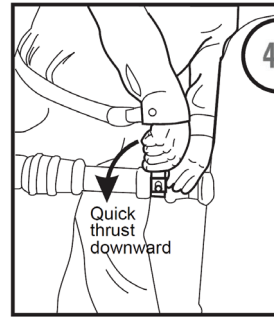
3.3 Lock the two cam-lock handles down securely.



Once the tank's gauge reaches 100 PSI (actual pressure required for bead seating will vary in relation to tire size) the tank is sufficiently charged. Close the ball valve.

OPERATION - HORIZONTAL/VERTICAL

At the tire, open the valve on the 10ft air hose allowing air to enter the tire's valve stem. At the tank, standing behind the 2" discharge valve and take hold of the discharge handle.



With one quick thrust, open the 2" discharge valve for approximately 3/4 of a second then closing it securely. The bead is now seated. Allow the air line into the tire to fill the tire for several

seconds before closing the valve on the 10ft air hose.



The discharge of the CH-60 releases a tremendous amount of stored air pressure in a very short time. This process is loud and ear plugs and safety goggles are required.



Do not allow the tire to over inflate! Failure to disconnect the air line feeding air into the tire's valve stem may risk tire damage and operator injury to due tire explosion.

DE-MOUNTING & STORAGE

Once all air valves are closed and it is reasonable to assume that approaching the assembly is safe. Begin by unscrewing the T-bolt handles on the adjustable discharge barrel, taking care not to allow the assembly to drop (vertical mount only). Slide the adjustable barrel away from the wheel rim allowing enough distance to remove the assembly. Disassemble in the reverse order of assembly. VERTICAL MOUNT: No need to rotate assembly prior to demounting.

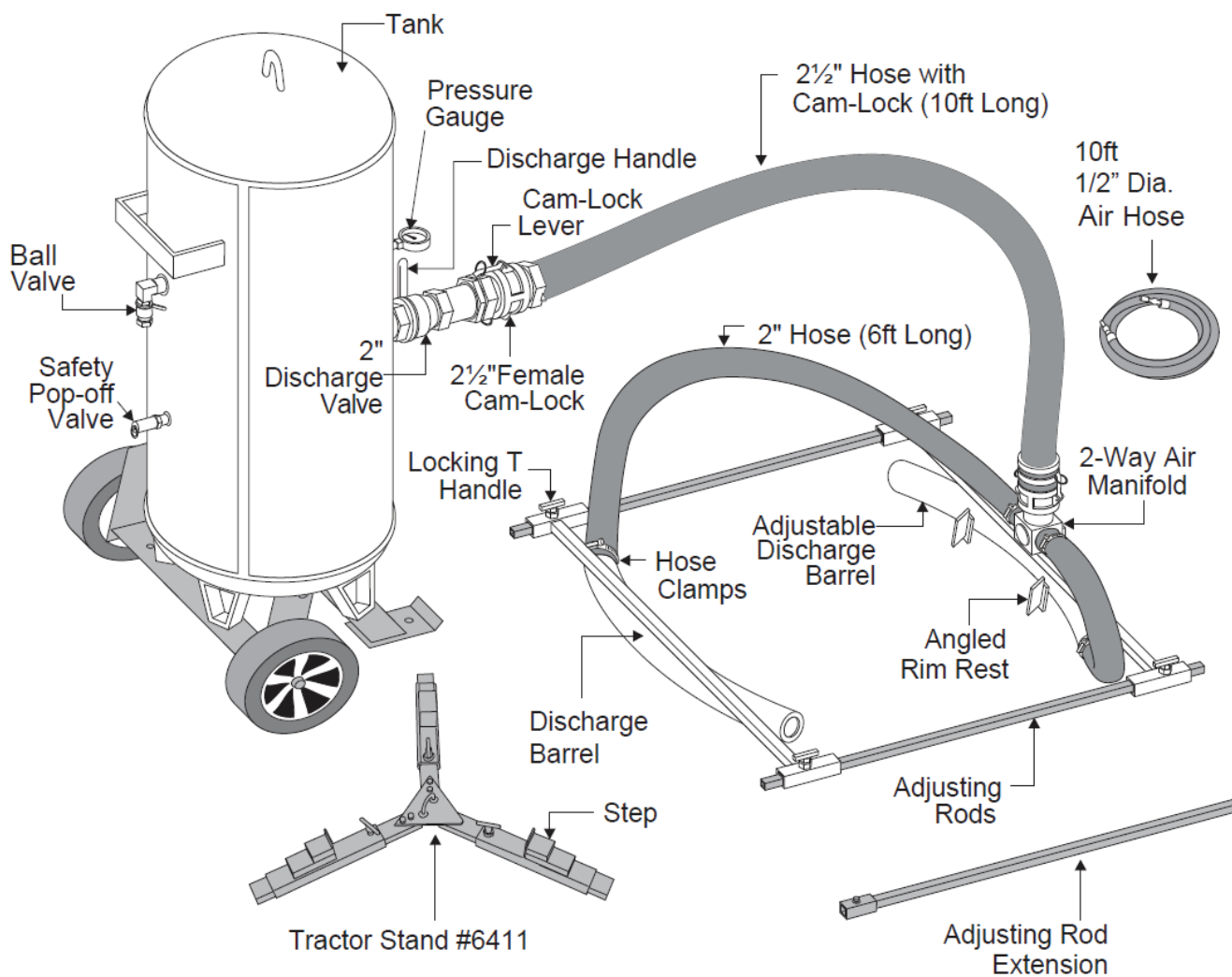
NOTE: Before storage of the CH-60 be sure to release the compressed air within the tank. Never store a charged tank.

NOTES

Spare Parts List

| Item | Description |
|------------|--|
| 01.106-200 | Air Pressure Gauge 1/4 NPT 200 PSI |
| 206-GR8 | Bolt, HHCS 1/2-13 x 1-1/2 Grade 8 |
| 3088 | Clamp, Hose up to 1-1/4 #24 |
| 5.104 | Hose, 1/2" x 10' with 1/2 NPT Female both ends |
| 12578 | Hose, 2" x 9' |
| 12875 | Hose, 2-1/2" x 10 |
| 223 | Nut 1/2-13 Nyloc |
| 1436 | Pin, Cotter 1/8 x 1 |
| 239.175 | Pressure Relief Valve Set at 175 PSI |
| 19.810 | T-Handle Locking screw 3/8-16 |
| 6411 | Tractor Tire Stand |
| 04.103 | Valve |
| 224 | Washer 1/2 x 1.33 |
| 6348 | Wedge, Tire |
| 11628 | Wheel & Tire Assembly |
| | |

Notes



California Proposition 65

California's Proposition 65 entitles California consumers to special warnings for products that contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm if those products expose consumers to such chemicals above certain threshold levels.

WARNING: Some of Tire Service International's products can expose you to chemicals including chromium compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Your risk from exposure to these chemicals varies, depending on exposure time. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash your hands after touching TSI's products.

Warranty and Return Policy

Warranty & Workmanship you can depend on.

With over 30 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing the majority of our products in the USA. Pride in our workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

Tire Service International equipment is warranted to be free from defects in materials and workmanship for a period of one year from the date of original purchase to the original owner. Repair labor is warranted for 90 days from the date of original purchase. Bushings, blades, bearings and normal wear and tear are not covered under warranty. Careless handling, negligence, misuse, abuse, mutilation, improper operation, making unauthorized repairs, additions, and or alterations automatically cancel this warranty and relieves TSI of any obligation. Cheetah tanks claimed to be defective while under warranty will be evaluated at our manufacturing plant and either repaired if possible or exchanged and returned or credit issued to the customer account at our discretion. Damage resulting from dropping the tanks will not receive warranty consideration. Warranty parts need to be returned prepaid to the plant for credit. Any replacement parts shipped from the plant will be shipped at the customer's expense. Machines requiring warranty work must be brought to the manufacturing plant in 201 Chelsea Rd, Monticello, MN or to a repair facility authorized by TSI.

!!WARNING!! Goods returned without an RGA will be refused. A Returned Goods Authorization form must be obtained before returning any material or goods. All non-warranty returns will be subject to a 15% restocking fee plus any additional charges for reconditioning/repacking.

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