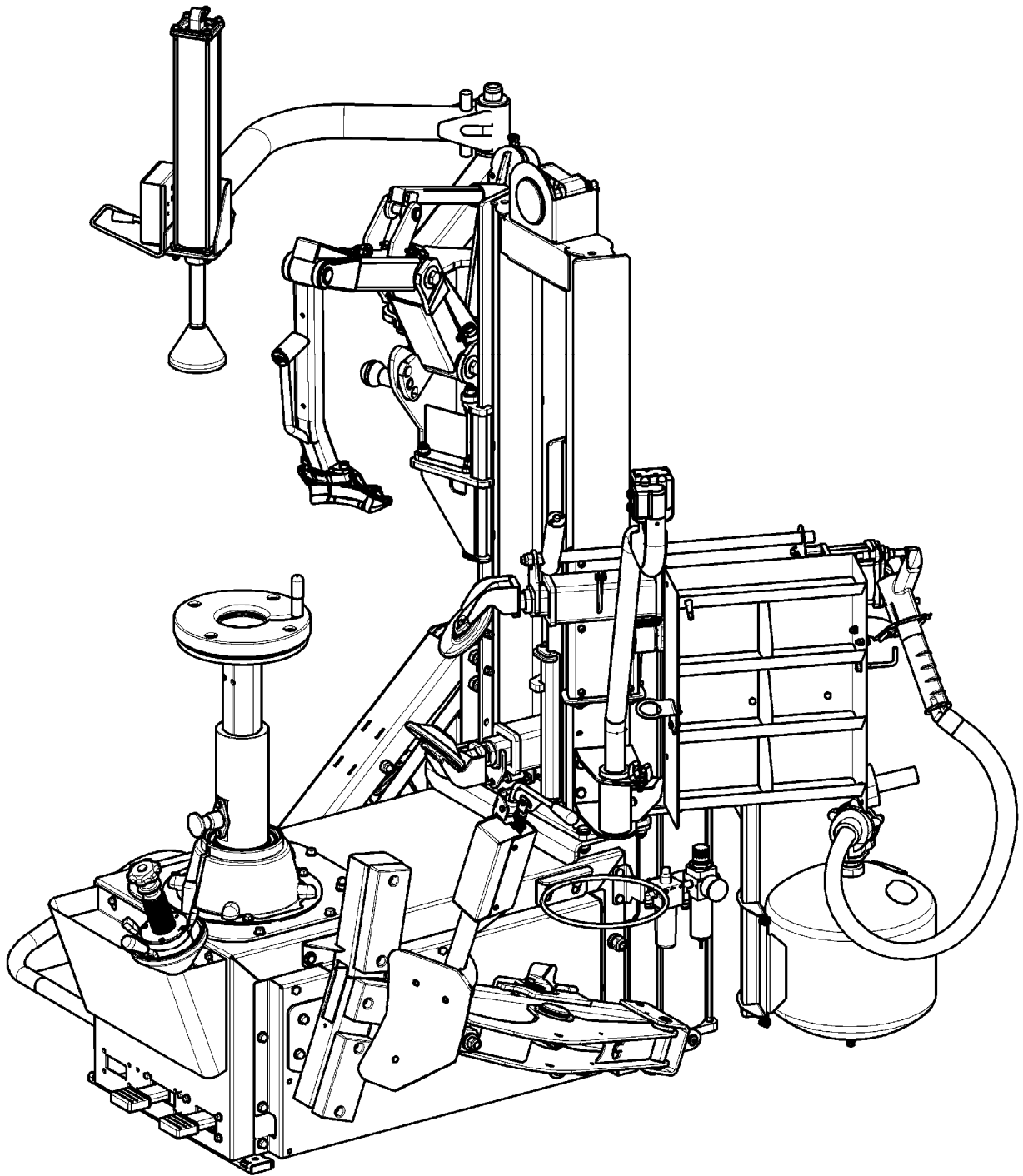


# TC37 Series Tire Changer



OWNER INFORMATION

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Date Installed \_\_\_\_\_

Service and Parts Representative \_\_\_\_\_

Phone Number \_\_\_\_\_

Sales Representative \_\_\_\_\_

Phone Number \_\_\_\_\_

**Concept and Procedure Explanation**

**Safety Precautions**

Warning and Caution Labels

**Trained**

**Declined**

Bead Roller

**Maintenance and Performance Checks**

**Trained**

**Declined**

Air Pressure Check

Checking Arm Calibration to Rims

Adjustment and Filling of Oiler

**Wheel Clamping**

**Trained**

**Declined**

Drop Center Identification

Standard Wheel

Reverse Drop Center Wheel

Large Pilot Hole Wheel

**Bead Loosening**

**Trained**

**Declined**

Standard Procedure

Tire Lubrication

**Demounting**

**Trained**

**Declined**

Standard Procedure

**Mounting**

**Trained**

**Declined**

Standard Procedure

Low Profile Wheels

**Matching Tire to Rim**

**Trained**

**Declined**

Lubrication, Positioning, and Direction of Rotation

**Inflation**

**Trained**

**Declined**

Adjustment of Pre-Set Pressures

Lubrication and Removal of Valve Core



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# 1. GETTING STARTED

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## 1.1 Introduction

This manual provides operation instructions and information required to maintain the TC series tire changer.

The owner of the TC is solely responsible for arranging technical training. The TC is to be operated only by qualified trained technicians. Maintaining records of personnel trained is solely the responsibility of the owner and management.

This manual assumes the technician has already been trained in basic tire changing procedures.

### “References”

This manual assumes that you are already familiar with the basics of tire changing. The first section provides the basic information to operate the TC. The following sections contain detailed information about equipment, procedures, and maintenance. *“Italics”* are used to refer to specific parts of this manual that provide additional information or explanation. For example, *refer to “Equipment Components,” page 9*. These references should be read for additional information to the instructions being presented.


The owner of the TC is solely responsible for arranging technical training. The TC is to be operated only by a qualified trained technician. Maintaining records of personnel trained is solely the responsibility of the owner or management.

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## 1.2 For Your Safety

### Hazard Definitions

Watch for these symbols:

 <b>CAUTION:</b> Hazards or unsafe practices, which could result in minor personal injury, or product or property damage.
--

 <b>WARNING:</b> Hazards or unsafe practices, which could result in severe personal injury or death.
---

 <b>DANGER:</b> Immediate hazards, which will result in severe personal injury or death.
---

These symbols identify situations that could be detrimental to your safety and/or cause equipment damage.

# IMPORTANT SAFETY INSTRUCTIONS

**⚠ WARNING:** This machine stores and uses significant volumes of compressed air. Disconnect compressed air at the source and drain all compressed air before servicing. Severe injury or death can occur if service is attempted on a compressed air chamber while it is charged.

**⚠ WARNING:** This machine uses high voltage electrical power. Shut down and unplug the machine at the source before servicing. Severe injury or death can occur if service is attempted on a live electrical circuit.

Read and follow all caution and warning labels affixed to equipment and tools.  
Read and understand all instructions before operating this machine.  
Misuse of this equipment can cause personal injury and shorten the life of the TC.  
To prevent accidents or damage to the TC, use only Hunter recommended procedures and accessories.  
Wear OSHA approved eye protection while operating the TC.  
Wear non-slip safety footwear when operating the TC.  
Do not wear jewelry or loose clothing when operating the TC.  
Wear proper back support when lifting or removing wheel from the TC.  
Never stand on the TC.

**⚠ WARNING:** Keep hands and clothing clear of moving parts. Keep hands clear of upper roller when bead loosening or rotating clamped wheel. Do not lean or reach over tire when inflating.

**⚠ WARNING:** Do not exceed these pressure limitations:  
**SUPPLY LINE PRESSURE** (from compressor) 175 PSI.  
**OPERATING PRESSURE** (gauge on regulator) 145 PSI.  
**BEAD SEATING PRESSURE** (gauge on hose) 40 PSI.

**⚠ WARNING:** Never mount a tire to a rim that is not the same diameter (e.g., 16 1/2 inch tire mounting on a 16 inch rim).

**⚠ WARNING:** After loss of air line pressure ALWAYS raise the wheel lift pedal to prevent the wheel lift from rising quickly during first operation.

**⚠ DANGER:** Activate blast inflation nozzle only when seating bead.

**⚠ CAUTION:** Do not hose down or power wash electric tire changers.

Bleed air pressure from system before disconnecting supply line or other pneumatic components. Air is stored in a reservoir for operation of the blast inflation nozzle. Air pressure can be bled from the system by pulling up on the knob located on top of the regulator, and then turning it **counterclockwise**.

Do not activate the blast inflation nozzle if the tire is not properly clamped.

Do not operate TC with worn rubber or plastic parts.

Wheels equipped with low tire pressure sensors or special tire and rim design may require certain procedures. Consult manufacturer's service manuals.

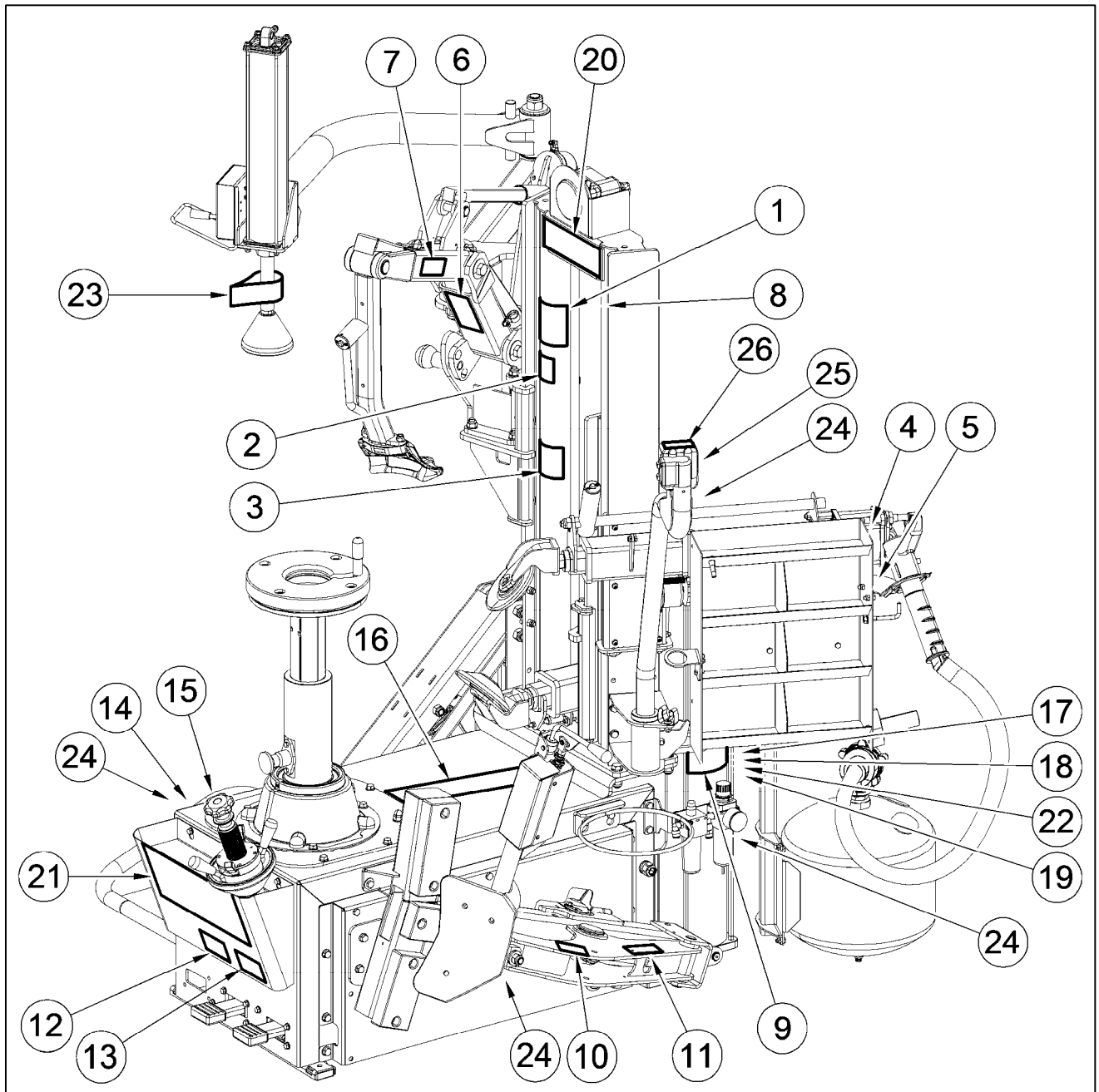
## SAVE THESE INSTRUCTIONS

Service and maintain machine regularly as outlined in "Maintenance and Calibration," on page 26. For further information contact:

**Hunter Engineering Company**  
11250 Hunter Drive  
Bridgeton, Missouri 63044  
(314) 731-3020

<http://www.hunter.com>

### Decal Placement



1	128-284-2	DECAL-SAFETY INSTRUCTIONS
2	128-323-2	DECAL-EYE PROTECTION
3	128-1213-2	DECAL-TCA TPMS SENSOR
4	128-286-2	DECAL-DANGER AIR BLAST
5	128-1149-2	DECAL-WARNING AIR BLAST
6	128-489-2	DECAL-MOUNTING ARM INCLINATION
7	128-435-2	DECAL-REMOVE CLIP-ON WEIGHTS
8	128-287-2	DECAL-WARNING INFLATION
9	128-285-2	DECAL-WARNING PRESSURE LIMITATIONS
10	128-504-2	DECAL-DO NOT BREAK BEAD WITH AIR PRESSURE IN TIRE
11	128-505-2	DECAL-KEEP ARMS AND LEGS CLEAR OF BEAD BREAKER
12	RP6-3691	DECAL-INFLATION
13	RP6-710211210	DECAL-ROTATION DIRECTION
14	RP6-99990758	DECAL-ELECTRICITY DANGER
15	RP6-4244	DECAL-ROTATING PARTS DANGER INDICATING
16	128-1241-2	DECAL-KEEP CLEAR
17	RP6-999916311	DECAL-RUBBISH SKIP
18	RP6-999915200	DECAL-SERIAL NUMBER
19	RP6-1594	DECAL-INSTALLATION DATE
20	128-1748-2	TC LOGO PLATE
21	128-1749-2	TC37 PLATE
22	RP6-999923160	DECAL-WARNING PROP 65
23	999923960	BEAD PRESS ARM PLUS PLATE
24	RP6-4221	GROUNDING PLATE
25	RP6-999923950	DECAL-INDENT
26	RP6-999923990	DECAL-ROLLER

## Electrical

The TC is manufactured to operate at a specific voltage and amperage rating.

Make sure that the appropriate electrical supply circuit is of the same voltage and amperage ratings as marked on the TC.

**⚠ WARNING: DO NOT ALTER THE ELECTRICAL PLUG. Plugging the electrical plug into an unsuitable supply circuit will damage the equipment.**

Make sure that the electrical supply circuit and the appropriate receptacle is installed with proper grounding.

To prevent the possibility of electrical shock injury or damage to the equipment when servicing the TC, power must be disconnected by removing the power cord from the electrical power outlet.



## Specific Precautions/Power Source

The TC is intended to operate from a power source that will apply 208-230VAC, 1 phase, 15 amp 50/60 Hz, *power cable includes* NEMA 20 amp plug, L6-20P, between the supply conductors of the power cord. The power cord supplied utilizes a twist lock connector, NEMA L6-20P. This machine must be connected to a 20 amp branch circuit. Please refer all power source issues to a certified electrician. Refer to "Installation Instructions for TC Tire Changer."



**⚠ CAUTION:** A protective ground connection, through the grounding conductor in the power cord, is essential for safe operation. Use only a power cord that is in good condition.

## Equipment Installation and Service

A factory-authorized representative should perform installation.

This equipment contains no user serviceable parts. All repairs must be referred to a qualified Hunter Service Representative.

## Equipment Specifications

### Electrical

Voltage:	208-230VAC, 1 phase, 50/60 Hz, <i>power cable includes</i> NEMA 20 amp plug, L6-20P
Amperage:	15 amperes
Wattage:	3450 watts (peak)

### Air

Air Pressure Requirements:	115-175 PSI (7.9-12.0 bar)
Approximate Air Consumption:	4 CFM (110 Liters/Minute)








### Mechanical

Clamping System Rotating Speed:	CW – variable up to 14 rpm CCW – 7rpm
Torque:	867 ft-lbs
Max. Tire Diameter:	46 in.
Max Bead Roller Opening Width:	15 in.
Diameter Range:	10-26 in.
Bead Roller Power; Each Roller:	2645 lbs.

## Safety Summary

### Explanation of Symbols

These symbols may appear on the equipment.

-  Alternating current.
-  Earth ground terminal.
-  Protective conductor terminal.
-  ON (supply) condition.
-  OFF (supply) condition.
-  Risk of electrical shock.
-  Stand-by switch.

---

### 1.3 Tire Bead Loosening with PowerOut

 **WARNING:** Keep arms and legs from between the bead breaker arm and the side of the housing.

The bead loosener shovel is controlled by a handle on the shovel itself. Pulling upward on the handle will insert push the shovel into the tire for bead loosening. Pushing downward on the handle will pull the shovel back outward under power.

Repeat as necessary to loosen entire bead on both sides of wheel. Use care around TPMS sensors.

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### 1.4 Wheel Lift Pedal

Press down on the wheel lift pedal to raise wheel lift. PULL UP THE WHEEL LIFT PEDAL TO LOWER THE LIFT. When the pedal is released the wheel lift WILL REMAIN IN POSITION.


---

### 1.5 Wheel Rotation Pedal

The right pedal on the front of TC base controls the rotation of the wheel. *Refer to "Equipment Components," on page 9.*

Step down on the pedal to rotate the wheel **clockwise** (variable speed).

Lift the pedal to rotate the wheel **counterclockwise** (fixed speed).

 **CAUTION:** Keep hands clear of wheel, tire, and rollers during bead loosening.

---

## 1.6 Air Inflation Pedal

The left or the central pedal on the front of TC base is a two-stage design. *Refer to "Equipment Components," on page 9.* The pedal controls the air going to the inflation hose and the blast inflation nozzle.

**⚠ CAUTION:** Keep hands clear of wheel during sealing and seating of bead.

**⚠ CAUTION:** When operating air inflation hose, do not lean over the tire.

Step down partially on the pedal to inflate tires through inflation hose.

Step down completely on the pedal to activate the blast inflator nozzle to seal tire beads.

*Refer to "2.8" on page 26 for complete inflation operation instructions.*

---

## 1.7 Inflator and Pressure Limiter

As a safety device, the pressure limiter prevents the operator from using excessive air pressure to seat the tire bead during tire inflation. Bead seating pressure should never exceed 40 psi. If tires being mounted require more than 40 psi for inflation pressure, the tire/wheel assembly should be removed from the tire changer, placed in an inflation cage, and inflated per manufacturer's instructions.

While inflating the tire, the pressure gauge will read zero until the inflation pedal is released. At that time, the gauge will give the correct air pressure reading in the tire.

*Refer to "2.8" on page 24 for complete inflation operation instructions.*

---

## 1.8 Bead Press Arm

The bead press arm assists with tire mounting. The bead press arm moves in tandem with the mount / demount head.

The controls on the bead press arm move the bead press up or down.

*Refer to "Equipment Components," on page 9.*

---

## 1.9 Command unit

The command unit governs all the movements necessary for complete bead roller operation. *Refer to "Equipment Components," on page 9.*

The command unit is used to position the bead roller and the tool into working position.

Press the positioning push-buttons in order to press and pull the bead breaker rollers, or the tool, on the correct rim diameter.

For proper operation of the command unit, place your hand over controller with index finger and middle finger over lever buttons.

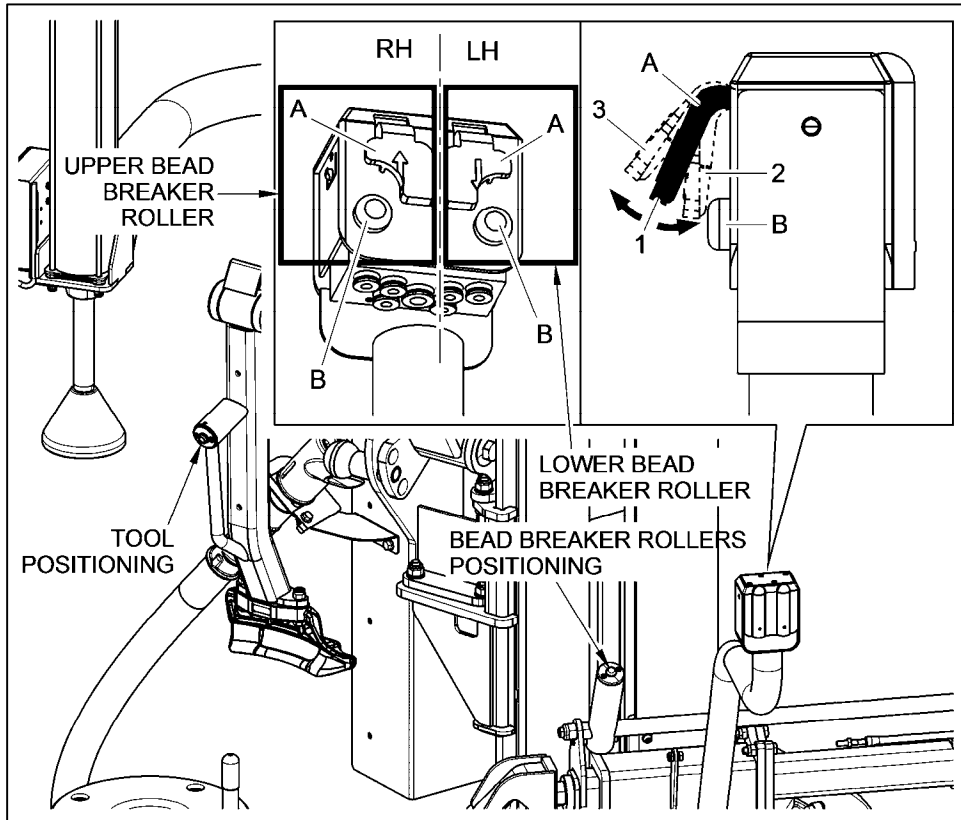
The command unit consists of 2 levers (pos. A) and of 2 push buttons (pos. B).

The left lever and push button control the lower bead breaker roller. The right lever and push button control the upper bead breaker roller.

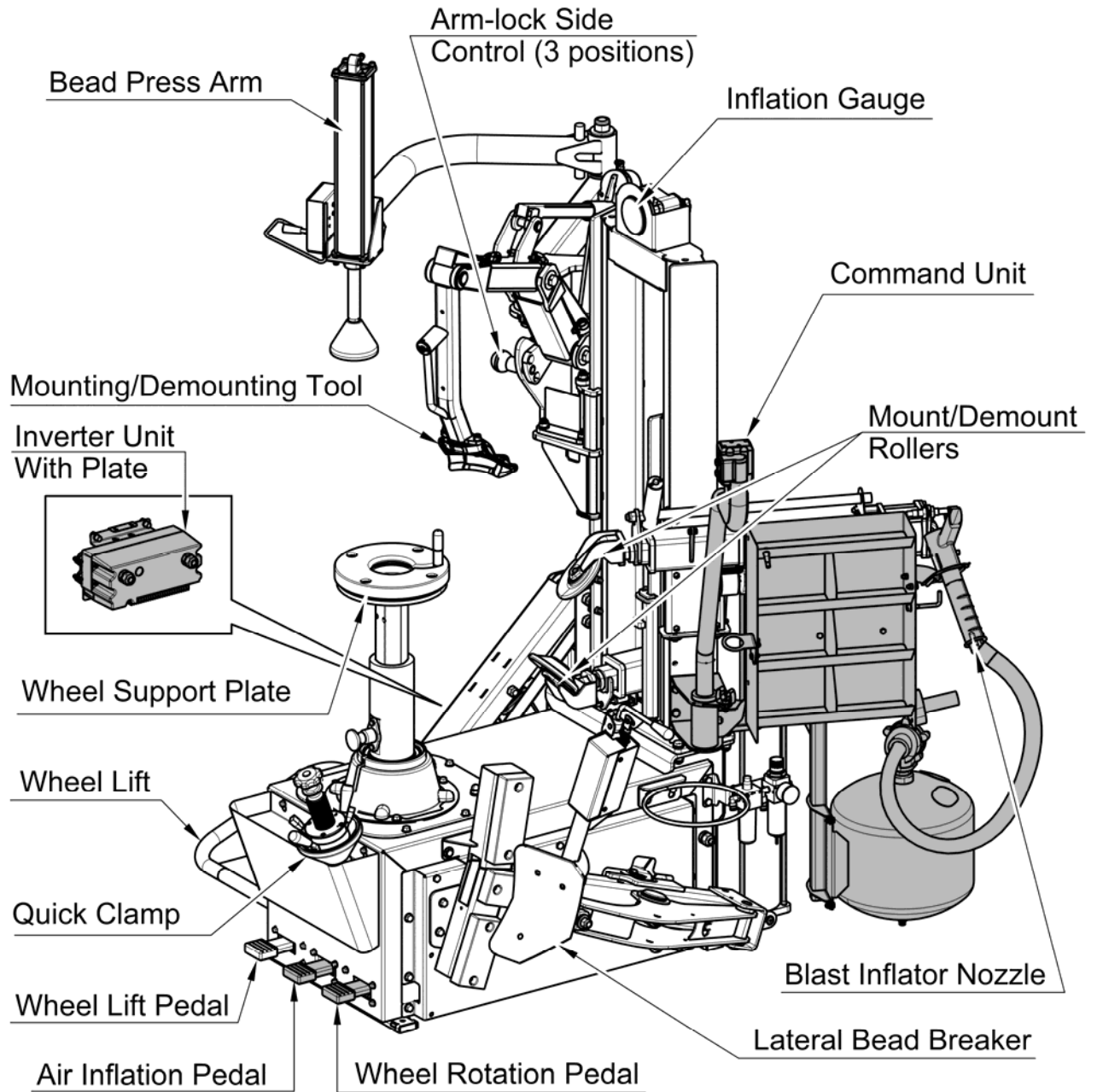
Each lever has 3 positions:

- The first (pos. 1) rest position stops the bead breaker roller operated in its current position;
- the second (pos. 2) held position lowers the upper bead breaker roller or lifts the lower bead breaker roller;

- the third (pos. 3) held position lifts the upper bead breaker roller or lowers the lower bead breaker roller to their high/low stroke limit switch. When the corresponding push button is pressed (pos. B) the cam for the introduction of the bead breaker roller between tire and rim is operated.



## 1.10 Equipment Components



## 2. BASIC PROCEDURES

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### 2.1 Side Shovel Bead Loosening

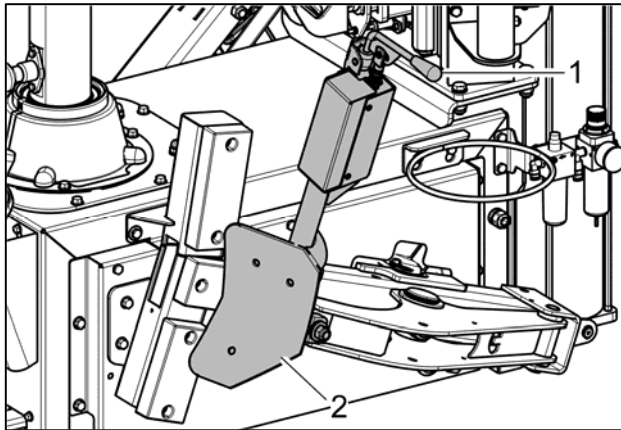
For bead loosening with rollers, refer to “Bead Loosening,” page 16.

Remove valve stem core and deflate tire completely.

**⚠ WARNING:** All air pressure inside the tire must be removed before proceeding. Never attempt to loosen the bead until all air is removed from the tire. Failure to remove all air from tire may result in injury to operator, or damage to equipment, tire, or wheel.

Remove all weights from the rim to protect the rim and to extend life of the mount/demount head.

The lever (pos. 1) allows to operate the bead breaker arm cylinder/side shovel. This lever has two stable positions with hold control: when the handle is lifted, the side shovel is pushed into the tire for bead loosening (pos. 2); when the handle is pressed downward the side shovel opens outwards.



Press the lever downward to make the side shovel open outwards.

Position the wheel against the side of the TC, between the bead breaker arm and the housing.

Lift the lever. The bead breaker arm will be pulled toward the TC to loosen the bead.

Press the lever downward again to swing the arm to the open position. Once the arm has been swung to the open position, release the lever.

If the bead has not completely loosened, rotate the wheel and repeat the bead loosening procedure at a different area on the tire.

Turn the wheel and loosen the opposite bead using the same procedure.

---

## 2.2 Placing Wheel on TC

### Wheel Support Plate Height Adjustment

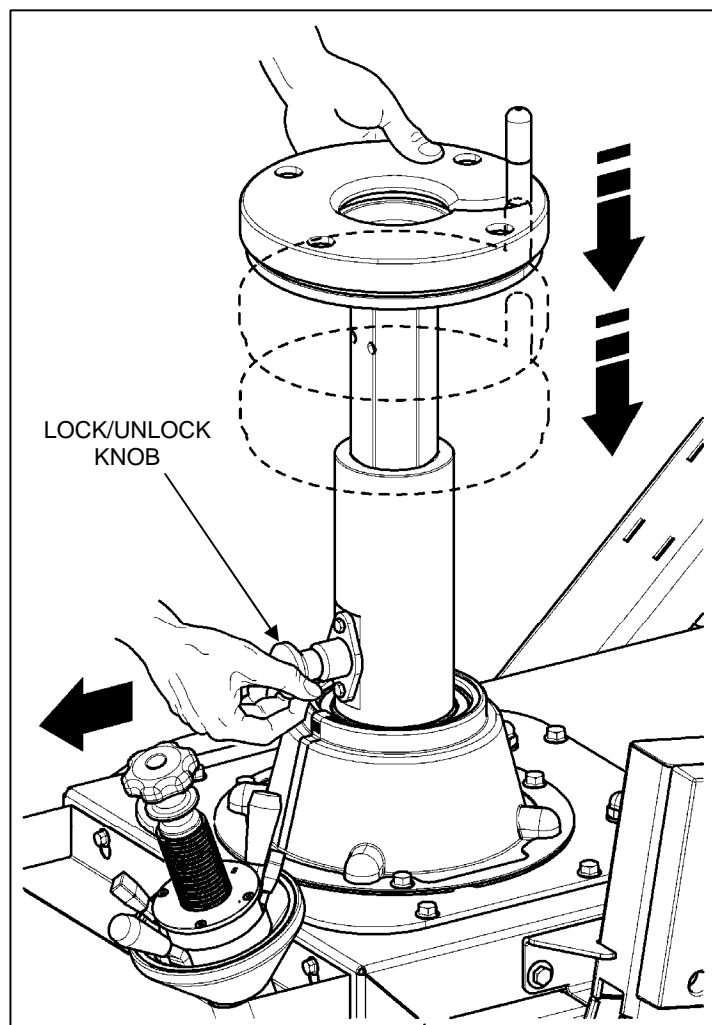
The wheel support plate on the TC is height adjustable to allow a wide range of wheels to be serviced.

Use the highest setting for most high offset wheels.

Standard wheels typically use the middle height.

Use the lowest height for most reverse drop-center wheels.

To adjust center support height, pull the knob outwards on center support and raise or lower center support table to desired height.



## Standard and High Offset Wheels

Adjust center support position to appropriate settings for the tire and wheel combination to be serviced. This is typically the middle or highest setting.

Place the wheel, face up, on the center support. Ensure the anti-rotation pin enters a lug hole in the wheel.



Insert wheel clamp, press down and twist clockwise 1/4 turn to lock into center support.





The clamping shaft is equipped with a quick clamp cone to speed clamping. Simply activate the Quick Clamp, drop the cone into place then hand tighten.



### Reverse Drop Center Wheels

Adjust center support position to appropriate settings for the tire and wheel combination to be serviced. This is typically the lowest setting.

Place anti-rotation pin protector and wheel protector pad on center support

#### Anti/Rotation Pin with Extensions



Place wheel, face-down, on center support ensuring anti-rotation pin inserts one lug hole.



Insert wheel clamp, press down and twist clockwise 1/4 turn to lock into center support.



The clamping shaft is equipped with a quick clamp cone to speed clamping. Simply activate the Quick Clamp, drop the cone into place then hand tighten.



## Large Pilot Hole Wheels

Adjust center support position to appropriate settings for the tire and wheel combination to be serviced.

Place wheel on center support ensuring anti-rotation pin inserts one lug hole.

Place adapter cone on the wheel.



Insert wheel clamp, press down and twist clockwise 1/4 turn to lock into center support.



The clamping shaft is equipped with a quick clamp cone to speed clamping. Simply activate the Quick Clamp, drop the cone into place then hand tighten.



---

## 2.3 Bead Loosening

Use the push button controls to position the lower roller to within 1/8" of rim.

Rotate wheel.

Apply lubrication while rotating wheel and pushing the lower bead off the rim with the lower bead roller. Use the push button controls to operate the cam for the introduction of the bead breaker between tire and rim. Stop when bead is removed from bead seat.

Remove lower roller.

Rotate wheel.

Apply lubrication while rotating wheel and pushing the upper bead off the rim with the upper bead roller. Use the push button controls to operate the cam for the introduction of the bead breaker between tire and rim. Stop when bead is removed from bead seat.

<p><b>⚠ CAUTION:</b> Never place hands near the rollers while applying force and rotating tire. Hands could be pulled between the roller and tire causing injury.</p>
---

Remove upper roller.

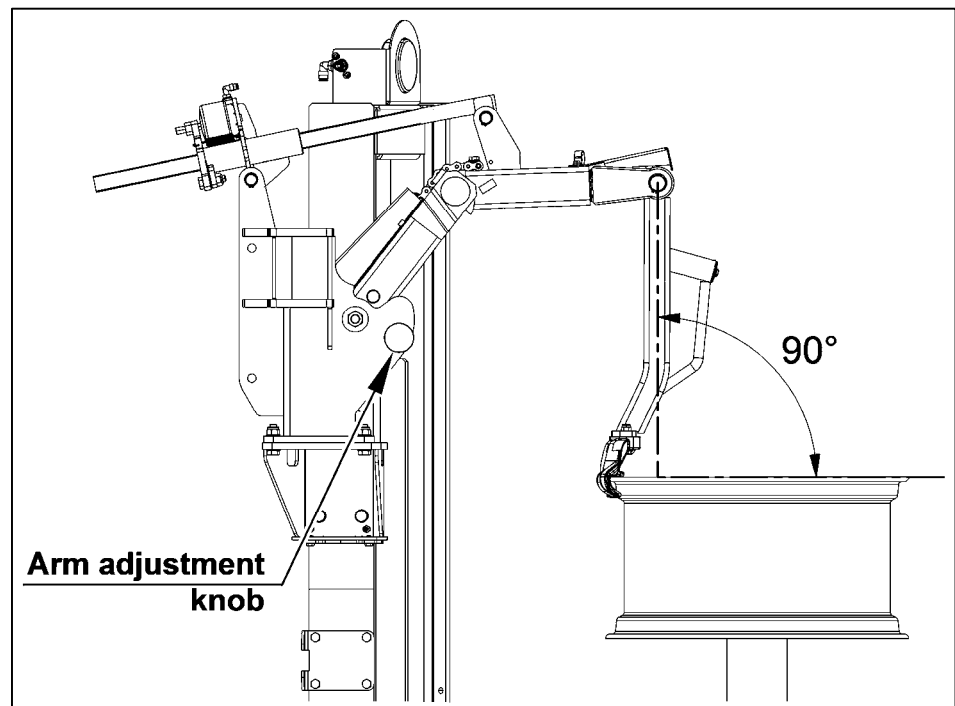
## 2.4 Demounting Standard Tires from Rim

**NOTE:** For rims that have a clearcoat finish, clean the mount/demount head to remove dirt and debris before demounting the tire from the rim.

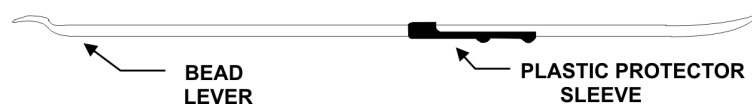
The angle between the tool arm and the rim flange must be close to 90 degrees.

Press the push button on the handle and position the mounting/demounting arm on the rim outer edge.

It is important to position the mounting arm correctly (there are 3 possible positions). The 3 positions are set using the knob on the rod and, keeping the push button on the handle pressed, manually moving the arms until they are locked in the required position. The correct position is achieved when the angle between the tool arm and the rim flange is 90°.



Verify that the plastic protector sleeve is installed on the bead lever tool as shown below.

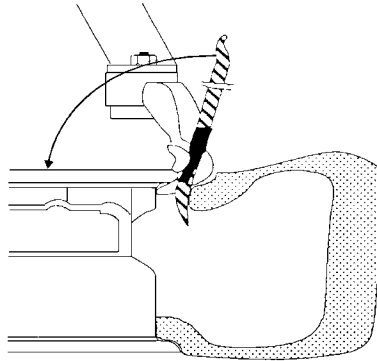


Position the straight end of the bead lever between right hand edge of mount/demount head and bead of tire.

Slide plastic protector sleeve on the bead lever tool toward the tire.

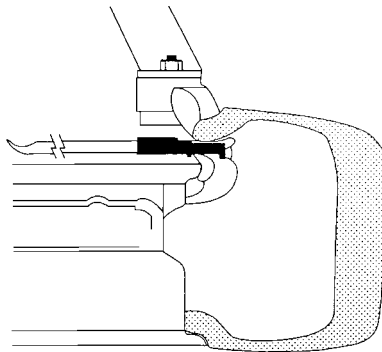
The mount/demount head should be positioned between the humps of the plastic protective sleeve.

Push down on the tire sidewall at the 6 o'clock position.



**IMPORTANT:** To prevent the plastic protective sleeve and mount/demount head from breaking during demounting, the mount/demount head must be fully seated on the outer edge of the upper rim lip before prying bead lever back for demounting.

Using the bead lever tool, lift the tire bead over the end of the head.



The bead lever tool must be pulled down parallel to the rim to prevent the possibility of breaking the plastic sleeve protector.

Rotate wheel **clockwise** until the entire bead is lifted from the rim.

Lift tire and repeat this procedure for lower bead.

**HINT:** If lower bead becomes re-seated on rim, push lower bead roller up against lower bead while rotating **counterclockwise** to re-loosen.

Swing the mount/demount arm assembly up and away from the wheel.

Remove tire from rim.

---

## 2.5 Mounting Standard Tire to Rim

Always be aware of this “checklist” when mounting tires to ensure proper service.

There are four basic steps when mounting a tire to a rim:

- Position the bead on top of the left lip of mount/demount head.
- Position the bead under the right lip of the mount/demount head.
- Lock the rim to the tire.
- Slip the bead into the drop center.

These four basic steps to mounting do not necessarily follow the same sequence, however all four steps need to be performed to mount a tire to a rim.

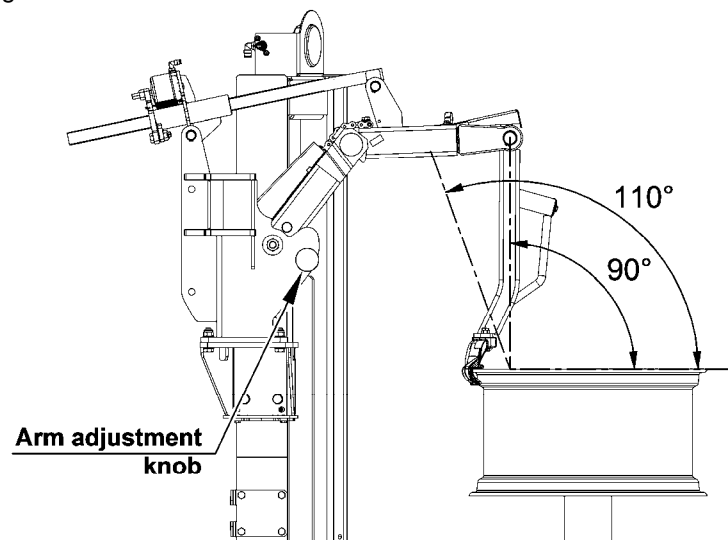
Mount a standard tire to rim as follows:

Lubricate inside and outside of both beads of the tire to be mounted with supplied mounting paste.

Position tire on top of the rim and tilt tire forward toward column.

Position mount/demount head through the opening of the tire and on the outer edge of the rim lip.

The angle between the tool arm and the rim flange must be close to 90 degrees.



The mount/demount assembly arm can be set to 3 different positions. The 3 positions are set using the arm adjustment knob on the column and moving the arm manually until it is locked in the required position. For rims with flat, rounded, or painted rim lips, the angle between the tool arm and the rim flange can be adjusted to approximately 110 degrees.

Position edge of lower tire bead on top of the left lip of mount/demount head.

Push edge of lower tire bead under the right lip of the mount/demount head while keeping other edge of lower tire bead above the left lip.

Twist tire **clockwise** by hand to lock the mounting of the tire to the rim.

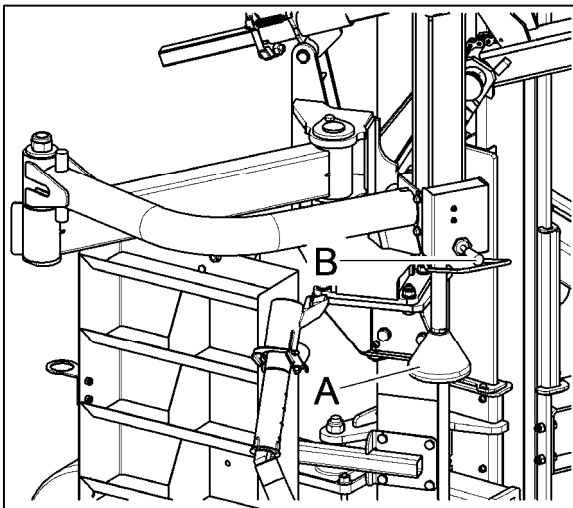
Push down on tire at approximately the 6 o'clock position to slip the tire into drop center.

Rotate wheel **clockwise** until the lower tire bead drops over the lip of the rim.

Lower the upper roller to the balcony of the rim.



Position the roller (A) of the Plus Device on the tire sidewall at 2 o'clock position and press the bead into the drop centre using the control unit (B).



Rotate **clockwise** to mount the tire.

**NOTE:**

If the tire bead does not have sufficient lubrication and the tire fails to slip into drop center during mounting, the mount/demount head may fail before damage to tire bead takes place.



## Precautionary Notes

When basic procedures are **not** followed, sharp angled wheel flanges increase potential damage to tires during mounting. Be sure the tire bead is placed on top of the mounting head. If the tire is incorrectly pushed onto the rim by the side of the mounting head, it may become “trapped” and increase mounting stress to the tire bead.



BEAD CORRECTLY PLACED ON TOP OF MOUNTING HEAD

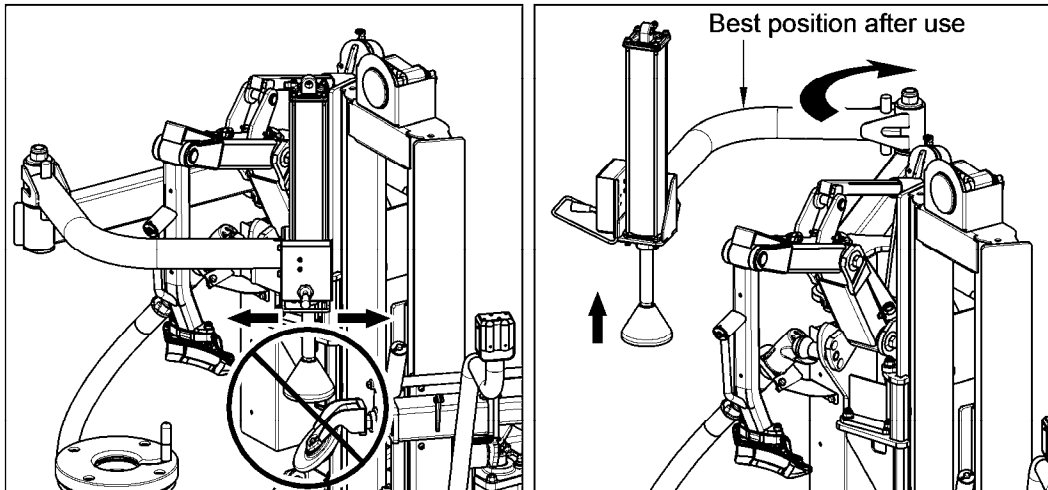


TIRE IS INCORRECTLY PUSHED ON BY MOUNTING HEAD

Insufficient lubrication and failure to place tire into drop center during mounting may also cause the mount/demount head to fail prematurely.

### **⚠ CAUTION:**

Ensure the bead press is **not** positioned over the upper bead roller before raising the upper bead roller. The best position for the bead press is tucked behind the tool head arm and away from the user. Failure to do so may cause the upper bead roller to contact the bead press and cause damage.



Remove the upper roller from the tire.

---

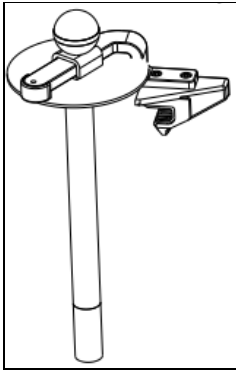
## 2.6 Mounting Tough, Low Profile Tires

Lubricate both beads.

Mount lower bead. Plus Device is not needed here.

Position the tire on the mounting tool and lower the upper bead roller on the side wall.

Insert the Traction tool. The valve is positioned at 5 o'clock.



Turn clockwise until the Traction Tool reaches the 4 – 5 o'clock position .

Position the roller of the Plus Device on the tire sidewall at the 2 o'clock position and press the bead into the drop centre.



Turn clockwise until the upper bead is mounted.



Remove Traction Tool, Plus Device Roller and upper bead roller.

Press the push button on the handle and swing the mount/demount arm assembly up and away from the wheel.

**NOTE:** For what concerns the Precautionary Notes, see previous paragraph.

Remove the wheel from the tire changer.

## 2.7 Matching/Optimizing of Tire to Rim

Matching/Optimizing allows positioning of the rim to the tire for proper mounting to minimize vibrations. This procedure must be done with both beads fully loosened and well lubricated.

Match/Optimize the rim to the tire as follows:

Set the rim diameter approximately 1 to 2 inches larger than the actual rim diameter.

Bring the lower bead roller up until it contacts the tire.

Bring the upper bead roller down until it contacts the tire.

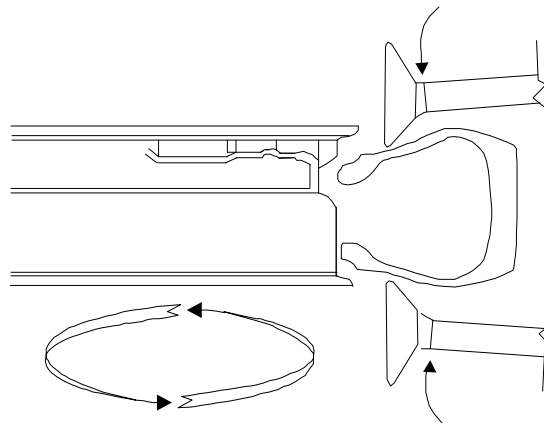
Rotate wheel **counterclockwise** and continue rotating for next three steps.

Lock upper roller and push in on sidewall of the tire until upper bead is in drop center of rim.

Lock lower roller and push in on sidewall of the tire until rim and tire are rotating at two different speeds.

**NOTE:** For reverse drop center rims, reverse the previous two procedures:  
Lock lower roller and push in on sidewall of tire until bead is in drop center.  
Lock upper roller and push in on sidewall of tire until rim and tire are rotating at two different speeds.

Continue rotating the tire and rim at different speeds until the rim spins inside the tire and the mark on the tire is positioned where needed in reference to the rim.



Once matching has occurred, retract arms and inflate.

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## 2.8 Tire Inflation

Verify that the wheel has been properly clamped and centered.

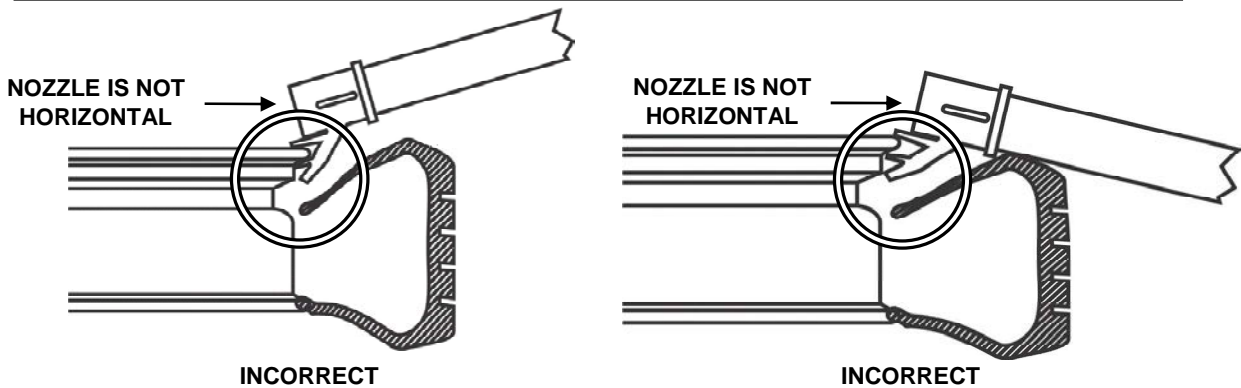
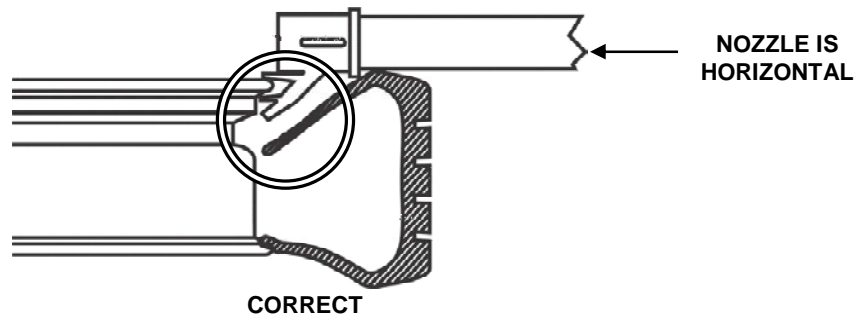
Remove the valve stem core from valve stem. Removing the valve stem core will allow the tire to inflate faster and the bead to seat easier.

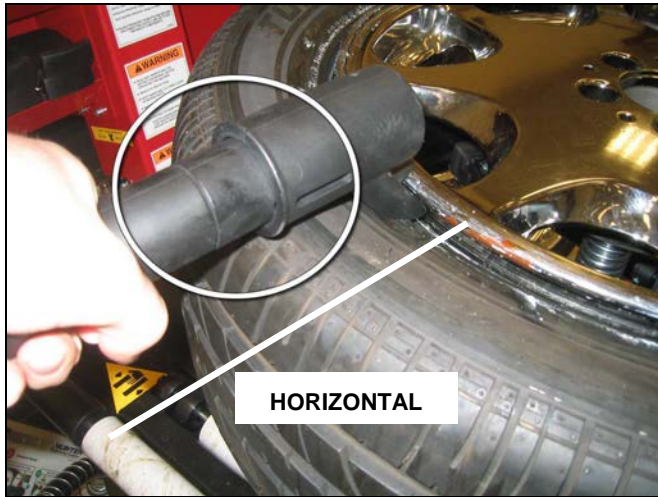
Connect inflator hose to valve stem.

NOTE:	To increase the effectiveness blast inflation nozzle, always liberally lubricate the outer edge of the tire sidewall and pull up on the tire while twisting to seal the bead.
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Press the bead blaster hose on the wheel rim as shown below. Ensure the hose head is pressed in.

NOTE:	The nozzle should be horizontal for optimal performance.
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**HORIZONTAL**

**Incorrect**



**HORIZONTAL**

**Correct**

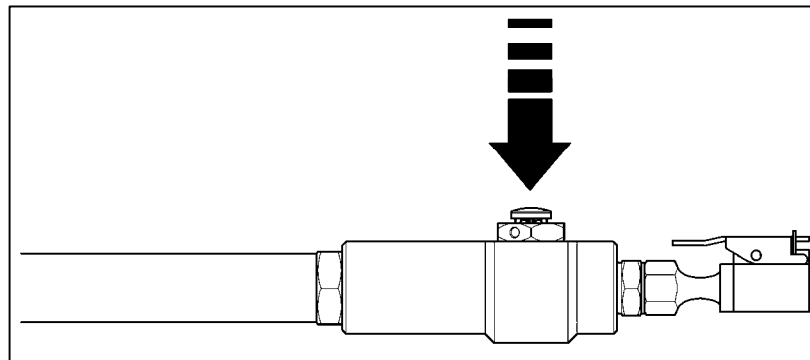
Step down completely on the air inflation pedal to release a high-pressure air blast through the bead blast hose to assist in seating the beads of the tire.

Step down partially on the air inflation pedal to inflate tire and seat the beads.

**⚠ WARNING: Do not exceed 40 PSI when seating the beads of a tire.**

After beads have been seated, disconnect inflation hose and reinstall valve stem core previously removed. Then connect inflation hose and inflate tire to the required pressure.

If tire is over inflated, air may be removed from the tire by pressing the manual air release button located on the inflating hose.



Disconnect inflator hose from valve stem.

## 2.9 Removal of Wheel from TC

Loosen clamping cone.

Press down quick clamp and turn counter-clockwise to unlock clamp from center support. Remove wheel clamp.

Remove wheel from center support.

If applicable, remove anti-rotation pin extensions and wheel protector pad from center support.

# 3. MAINTENANCE AND CALIBRATION

## 3.1 Maintenance Schedule

**⚠ CAUTION:** Do not hose down or power wash electric tire changers.

Proper care and maintenance are necessary to ensure that the tire changer operates properly. Proper care will also ensure that rims and tires are not damaged during the mount/demount process.

Maintenance Schedule	Perform the Following Maintenance
<p><b>Daily</b></p>	<p>Drain condensation from pressure regulator reservoir by pressing in on the fitting located on the bottom of the regulator.</p> <p>For proper functioning, it's necessary to verify the correct position of the valve, placed under the regulator. To activate a correct drain function, the cap must be rotated to the counterclockwise position (as viewed from the bottom).</p> <div data-bbox="715 1126 1345 1688" style="text-align: center;"> <p>The diagram shows a detailed view of a pressure regulator. It has a cylindrical body with various ports and a cap on top. Labels include 'PRESSURE REGULATOR' at the top, 'OILER' on the left side, 'AIR SUPPLY' on the right side, and 'DEPRESSURE RELEASE SEMI-AUTOMATIC' at the bottom. A curved arrow at the bottom indicates the cap should be rotated counterclockwise.</p> </div> <p>Check for worn or damaged rubber and nylon components that should be replaced to prevent damage from occurring. Replace worn parts as needed (rubber pads and blocks, rollers, and mount/demount head).</p> <p>Clean all areas that contact rims or tires to prevent possible scratching to rim.</p>

<b>Weekly</b>	<p>Clean the tire changer with shop towels or a vacuum cleaner. <b>Do not clean with or use compressed air, which can blast dirt between moving parts.</b></p> <p>Do not use cleaning solvents to clean pressure regulator/oiler.</p>
<b>Periodically</b>	<p>Refill the pressure regulator/oiler using <b>only</b> Hunter Lubri-oil as needed. <b>Petroleum-based oils should never be used in the oiler and may void all warranties.</b></p> <p>Adjust the screw on top of the oiler to release one drop of oil for every six (6) full up and down cycles of a roller arm pneumatic cylinder.</p> <p>Adjust push-pull cables such that the both rollers are properly adjusted relative to a wheel rim.</p> <p>Lubricate oil fittings as shown on decal on side of storage tray.</p> <p>Check for loose bolts and tighten per specifications.</p>

### 3.2 Maintenance Replacement Parts

<u>QTY</u>	<u>NAME</u>	<u>NUMBER</u>
1	Safety Goggles	179-15-2
1	Brush	RP6-G108A16
1	Mounting Paste	RP6-G800A37
1	Assembling Tool	RP6-G1000A14
1	Rubber Protector Pad	RP6-710013421
1	2-Head Cone	RP6-1157
1	Pin Protector	RP6-710090481
1	Pin Extension	RP6-710012941

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### 3.3 Checking the Bead Rollers

Check to ensure bead rollers operate in line with each other as follows:

Clamp a typical rim without tire onto the TC.

Bring the upper bead breaker roller close to the rim, as shown in figure.



Verify that the upper roller touches the rim edge. There should be no clearance between the roller and rim edge.

Raise the lower bead arm, verify clearance of 1 mm (1/24") from the rim edge.

Adjust rollers as follows:

In case of adjustment, disconnect the air supply from the machine to allow the unlock of the necks.





# Warranty Information

Hunter Engineering Company warrants new equipment to be free from defects in material and workmanship under normal conditions of use for a period of one (1) year\* from the date of installation. Exceptions to this warranty are listed below.

- Circuit boards are warranted for a period of three (3) years except as noted below.
- PC components and options installed inside the PC are warranted for a period of three (3) years.
- LCD's are warranted for a period of three (3) years.
- Power supplies are warranted for a period of three (3) years.
- Transducers\*\* are warranted for a period of three (3) years.
- Wheel Balancer motors are warranted for a period of three (3) years.
- Wheel Balancer spindles are warranted for a period of three (3) years.
- Tire Changers are fully warranted for a period of three (3) years with the exception of consumable parts and Revolution power units.
- All lift and Hunter Revolution power units are warranted for a period of two (2) years.
- Normal wear items are not covered with the exception of batteries, which are covered for a period of six (6) months.
- Replacement parts purchased through the Hunter Service Center and no longer covered by machine warranty are warranted for a period of six (6) months.
- ADASLink units carry a one (1) year warranty and remain under warranty as long as a subscription is maintained thereafter.
- DAS3000 units including electronic circuit boards carry a one (1) year warranty.

Field labor is covered under this warranty for a period of six (6) months.

This warranty does not include normal wear items and does not apply to any product which has been subject to abuse, misuse, alterations, accident, exposure to the elements, tampering, unreasonable use, or failure to provide reasonable and necessary maintenance.

In case of any warranty claim it will be necessary to contact your local authorized Hunter Service Representative. To have an item considered for warranty it must be returned to Hunter Engineering Company for inspection and evaluation. This must be done on a freight prepaid basis. If after our inspection the product proves to be defective, and is within the time frame specified, we will repair or replace the item at no additional cost.

This is Hunter Engineering Company's only warranty with respect to new equipment. Hunter Engineering Company disclaims all other warranties to the extent permitted by law. This express warranty and any implied warranties of merchantability and fitness for a particular purpose shall not extend beyond the warranty period. Hunter Engineering is not responsible for any incidental or consequential damages, including, but not limited to, loss of business.

We do not authorize any person to assume for us any other liabilities with our products. Any remaining warranty may be transferred to subsequent purchasers by forwarding the purchaser's name, address, phone number and equipment serial number to:

**Hunter Engineering Company  
Customer Service Department  
11250 Hunter Drive  
Bridgeton, MO 63044  
(800) 448-6848**

\* *During the first 30 days complete PC's will be replaced at no charge under warranty with Repair Lab approval. After 30 days they will be repaired at no charge under warranty. All internal PC components will be replaced at no charge for a period of 3 years from the date of installation.*

\*\* *Transducers include camber cells, brake tester load and weight cells, suspension analyzer pickups, hall effect sensors and balancer force transducers.*