Tire Changer Operation Manual
Models: KT-T830



IMPORTANT SAFETY INSTRUCTIONS

The equipment can only be operated by qualified personnel trained to use this equipment. Misuse of the machine for other purpose or modifying any components of the equipment without receiving the permission from the manufacturer may result in direct or indirect damage to the equipment.

Due to the many variations in procedures, techniques, tools, and parts for changing tires as well as the skill and training of the individual performing the work, the manufacture cannot anticipate any or all warnings necessary for the safe operation of the Tire Changer. It is the technician's responsibility to be knowledgeable in the safe and acceptable means of changing tires on the wheels that are being serviced. Never endanger your safety, the safety of others in the work area or the equipment or vehicle being serviced.

1. Eye and face protection recommendations:
   "Protective eye and face equipment is required while using this equipment due to potential of injury." O.S.H.A. 1910.133(a) Protective goggles, safety glasses, or a face shield must be provided by the owner and worn by the operator of the equipment. Care should be taken to see that all eye and face safety precautions are followed by the operator. ALWAYS WEAR SAFETY GLASSES. Everyday glasses only have impact resistant lenses, they are not safety glasses.
2. Be sure that wheels are mounted properly, the hub nut engages the arbor for not less than four (4) turns, and the hub nut is firmly tightened before spinning the wheel.
3. Read and understand this manual before operating. Abuse and misuse will shorten the functional life.
4. Be sure the Tire Changer is properly connected to the power supply and electrically grounded.
5. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged until it has been examined and repaired by a qualified serviceman.
6. Do not let cord hang over edge of table, bench, or counter or come in contact with hot manifolds or moving fan blades.
7. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
8. Keep guards and safety features in place and in working order.

SAVE AND FOLLOW THE ABOVE INSTRUCTIONS

9. Wear proper clothing. Safety toe, non-slip footwear and protective hair covering to contain hair is recommended. Do not wear jewelry, loose clothing, neckties, or gloves when operating the Changer.
10. Keep work area clean and well lighted. Cluttered and/or dark areas invite accidents.
11. Avoid dangerous environments. Do not use power tools or electrical equipment in a damp or wet environment, or expose them to rain.
12. Avoid unintentional starting. Be sure the Tire Changer is turned off and power disconnected before servicing.
13. Disconnect the Tire Changer before servicing.
14. Use only manufacturer's recommended accessories. Improper accessories may result in personal injury or property damage.
15. Repair or replace any part that is damaged or worn and that may cause unsafe Changer operation.
16. Do not operate damaged equipment until it has been examined and repaired by a qualified service technician.
17. Never overload or stand on the weight tray or any part of the Tire Changer.
18. To reduce the risk of fire, do not operate equipment in the vicinity of open containers or flammable liquids (gasoline).
19. Adequate ventilation should be provided when working on or operating internal combustion engines.
20. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
21. Use equipment only as described in this manual.
22. Use only manufacturer's recommended attachments and accessories.
23. The equipment should be installed on the stable surface and not on a wooden pallet.
24. Keep the back panel 0.6 meters away from the wall to allow adequate ventilation. Enough room should be left on both sides for convenient operation.
25. Do not install the equipment in a place with high temperature or moisture, near the heating system, water tap, air-humidifier or chimney.
26. Avoid contact with lots of dust, ammonia, alcohol, thinner or spraying binder.
27. People who are not operating the machines should be kept away during normal operation.
28. Pay special attention to the warning labels on the machine.
29. Do not touch or approach the moving parts by hand during operation.
30. Do not remove the safety device or prevent it from working properly.

Owner's Responsibility

To maintain machine and user safety, the responsibility of the owner is to read and follow these instructions:

- Follow all installation instructions.
- Make sure installation conforms to all applicable Local, State, and Federal Codes, Rules, and Regulations; such as State and Federal OSHA Regulations and Electrical Codes.
- Carefully check the unit for correct initial function.
- Read and follow the safety instructions. Keep them readily available for machine operators.
- Make certain all operators are properly trained, know how to safely and correctly operate the unit, and are properly supervised.
- Allow unit operation only with all parts in place and operating safely.
- Carefully inspect the unit on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with authorized or approved replacement parts.
- Keep all instructions permanently with the unit and all decals/labels/notices on the unit clean and visible.
- Do not override safety features.

Operator Protective Equipment:

Personal protective equipment helps make tire servicing safer. However, equipment does not take the place of safe operating practices. Always wear durable work clothing during tire service activity. Loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect operator's hands when handling worn tires and wheels. Sturdy leather work shoes with steel toes and oil-resistant soles should be used by tire service personnel to help prevent injury in typical shop activities. Eye protection is essential during tire service activity. Safety glasses with side shields, goggles, or face shields are acceptable. Back belts provide support during lifting activities and are also helpful in providing operator protection. Consideration should also be given to the use of hearing protection if tire service activity is performed in an enclosed area, or if noise levels are high.

Definitions of Hazard Levels

Identify the hazard levels used in this manual with the following definitions and signal words:

DANGER

Watch for this symbol:



It Means: Immediate hazards, which will result in severe personal injury or death.

WARNING

Watch for this symbol:



It Means: Hazards or unsafe practices, which could result in severe personal injury or death.

CAUTION

Watch for this symbol:



It Means: Hazards or unsafe practices, which may result in minor personal injury or product or property damage.

BE ALERT

Watch for this symbol! It means BE ALERT! Your safety, or the safety of others, is involved!



Safety Notices and Decals



Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property. Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual. For additional copies of either, or further information, contact:

Standard Safety Devices



Keep hair, loose clothing, fingers and all parts of body away from moving parts.

• Press STOP key for stopping the wheel under emergency conditions.


WARNING
RISK OF EXPLOSION
This equipment has internal arcing or sparking parts which should not be exposed to flammable vapors. Do not locate in a recessed area or below floor level.
THIS EQUIPMENT MUST BE EARTH-GROUNDED
The earth-ground connector built into the power cord provides protection to reduce the risk of electrical shock.
AVERTISSEMENT
RISQUE D'EXPLOSION
Cet équipement possède des pièces internes, pouvant lancer des arcs ou jeter des étincelles, et qui ne devraient pas être exposées à des vapeurs inflammables. Ne situez pas l'équipement dans des endroits encastrés ou en-dessous du niveau du plancher.
CET ÉQUIPEMENT DOIT ÊTRE MIS À LA TERRE
Le raccord de mise à la terre incorporé dans le cordon de puissance fournit une protection afin de réduire le risque d'électrocution.
CAUTION
Do not use below garage floor or grade level.
Disconnect power before servicing this equipment.
To prevent electrical shock, do not remove cover. No user servicable parts inside. Refer servicing to qualified service personnel.
ATTENTION
N'utilisez pas en-dessous du plancher du garage ou du palier.
Débranchez le cordon de puissance avant de faire l'entretien de cet équipement.
Afin de vous protéger contre l'électrocution, n'enlevez pas le couvercle. Aucune pièce interne ne nécessite d'entretien par l'utilisateur. Référez l'entretien à un personnel de service qualifié.
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INTRODUCTION

Congratulations on the purchase of the KATOOL KT-830 Tire Changer. This Tire Changer is designed for ease of operation, safe handling of wheels, reliability, and speed. This equipment will provide many years of trouble-free operation requiring minimum maintenance and care. Please read this manual thoroughly before operating the unit. Instructions on use, maintenance and operational of the machine are covered in this manual.
USAGE: This Tire Changer has been designed and manufactured specially for balancing automotive wheels.



Any other use is to be considered incorrect and unreasonable. The manufacture will not be responsibility for any damage caused from misuse of this Tire Changer. Any use other than that specified in this manual is inappropriate, incorrect, and unreasonable.

KEEP THIS MANUAL NEAR THE MACHINE FOR FUTURE REFERENCE

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Failure to follow the instructions and safety precautions in this manual can result in serious injury or death.
Make sure all other operators also read this manual. Keep the manual near the product for future reference.
By proceeding with setup and operation, you agree that you fully understand the proper use of this product and assume full responsibility of product use.

1.0 Product Specifications

KT-T830 Tire Changer

- **Robust All-Steel Construction** — Built tough for daily shop use, with a reinforced frame that stands up to repeated cycles.
- **Powerful Motor & Drive System** — Smooth and efficient rotation for quick wheel turnaround.
- **Strong Bead Breaker** — High-force bead breaking simplifies work on stubborn, low-profile, and run-flat tires.
- **Adjustable Clamping Jaws** — Fast, secure clamping for various rim diameters and styles.
- **Foot-Operated Controls** — Ergonomic pedals give technicians hands-free control for safer and faster operation.
- **Smart Tool Head & Duckhead** — Designed to protect wheels while efficiently mounting and demounting tires.
- **Built-In Accessory Tray** — Keep tire irons, valve tools, and accessories organized and within reach.
- **Wide Wheel Compatibility** — Ideal for passenger cars, SUVs, light trucks, and performance wheels.

Performance You Can Count On

The Katool KT-T830 is engineered for real-world tire service environments. Its combination of strength, precision design, and ease of use ensures technicians spend less time wrestling with tough tires and more time getting customers back on the road.

Ideal For

- Tire and wheel service centers
- Automotive repair shops
- Alignment and suspension prep work
- Performance and racing garages
- Mobile tire service operations

SPECIFICATION

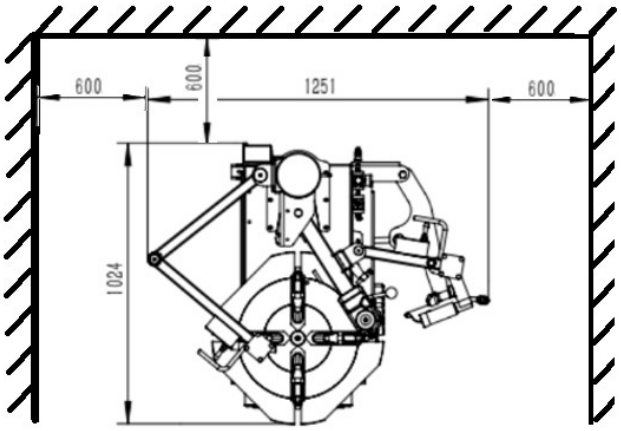
MODEL	KT-T830
Max Wheel Diameter:	41" / 1040 mm
Max Wheel Width:	15" / 380 mm
Outside Clamp:	12"–22"
Inside Clamp:	14"–24
Power Supply:	110V Single Phase
Motor Power:	2.0HP / 1.5KW
Rotation Speed.:	6.8 r/min
Air Pressure:	0.8-1.0Mpa (116-145psi)
Maximum charge pressure	3.5bar（50psi）
Pressing force (10bar)	5510 lbs. (2500kg)
Net Weight:	240KG / 529lbs
Working state noise	＜70dB（A）

Figure: 1

2.0 Tire Changer Set Up Instructions

2.1 Installation location

- The area should provide the operator with enough space to use the equipment in a safe manner.
- The area selected should be well lit, easy to clean and should be away from oil, grease, brake lathe chips, etc. Avoid areas where bystanders and customers may be present.
- Do not connect the tire changer to an explosive gas source.
- Please see below the minimum recommended clearance (600mm) for equipment installation.



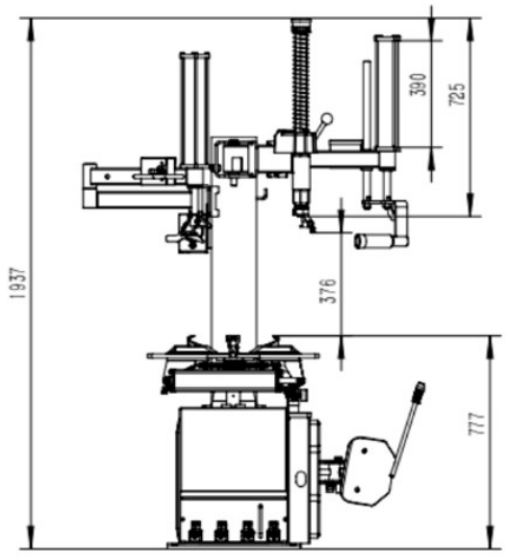


Figure: 2

2.2 Inspection guideline

Inspect the packaging for any kind of impact or rain damage. Keep the packing materials away from the children to avoid injury. Please dispose-off any packaging as soon as possible in a safe and proper manner to avoid any environmental pollution. Remove the packaging as shown here.

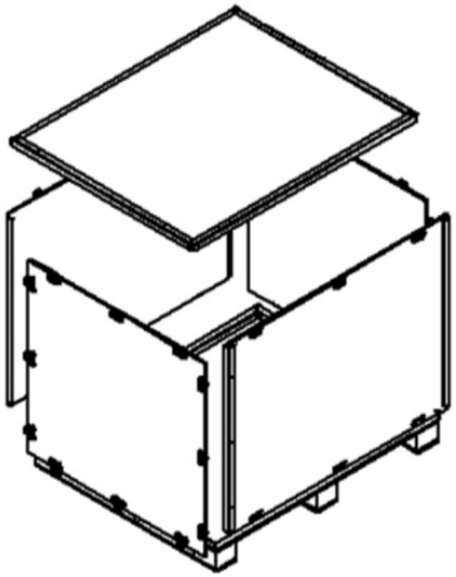


Figure: 3

Remove the packing materials and inspect the tire changer for any sign of shipment damage. Check the packing list to see if the main parts and accessories are complete.

The shipment should be thoroughly inspected as soon as it is received. If there are any missing or damaged parts, do not accept the machine and contact Katool service representative immediately and inform them of the damage or missing parts so our team can help you with replacement of the equipment.

Layout everything on the floor and inspect everything.



Figure: 4

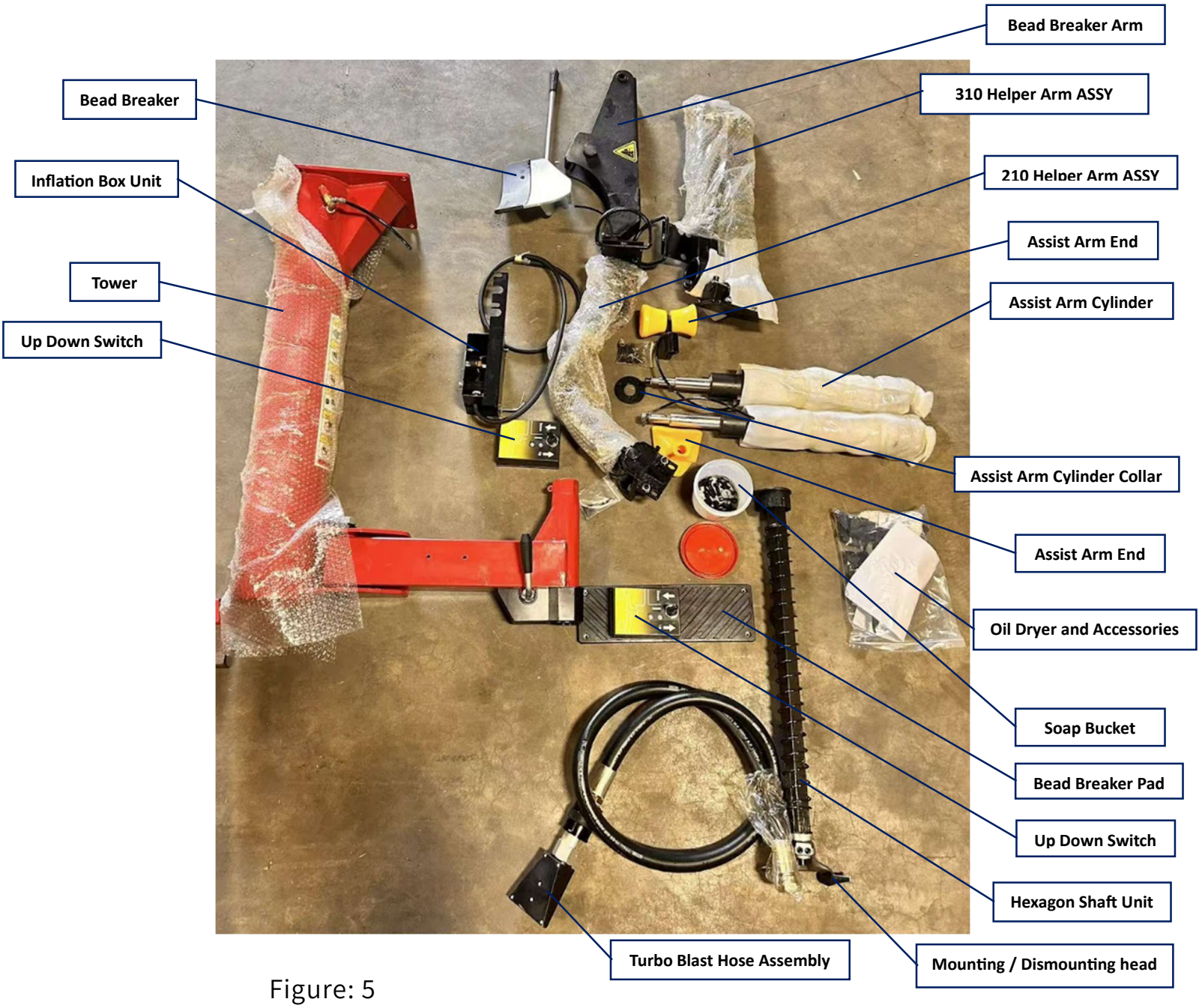


Figure: 5

2.3 Mechanical installation

2.1.1 The equipment should be installed on flat and stable ground, not on a wooden pallet, to ensure high equipment performance accuracy. The tire changer must sit solidly on its feet. If the tire changer is not level, does not sit solidly on its feet, or is placed on an unstable floor, it will not function properly.

2.1.2 Keep the back of the machine 0.6 meters away from the wall for good ventilation. Enough room should be left on both sides for convenient operation

of the assist arm. The location must also provide working room for mounting and removing wheels. Make sure the area has adequate lighting.

2.1.3 Secure the tire changer to the floor with concrete screw.



Place the tower on the maching box as shown above and then fasten using the fasteners as shown bellow.





Figure: 6

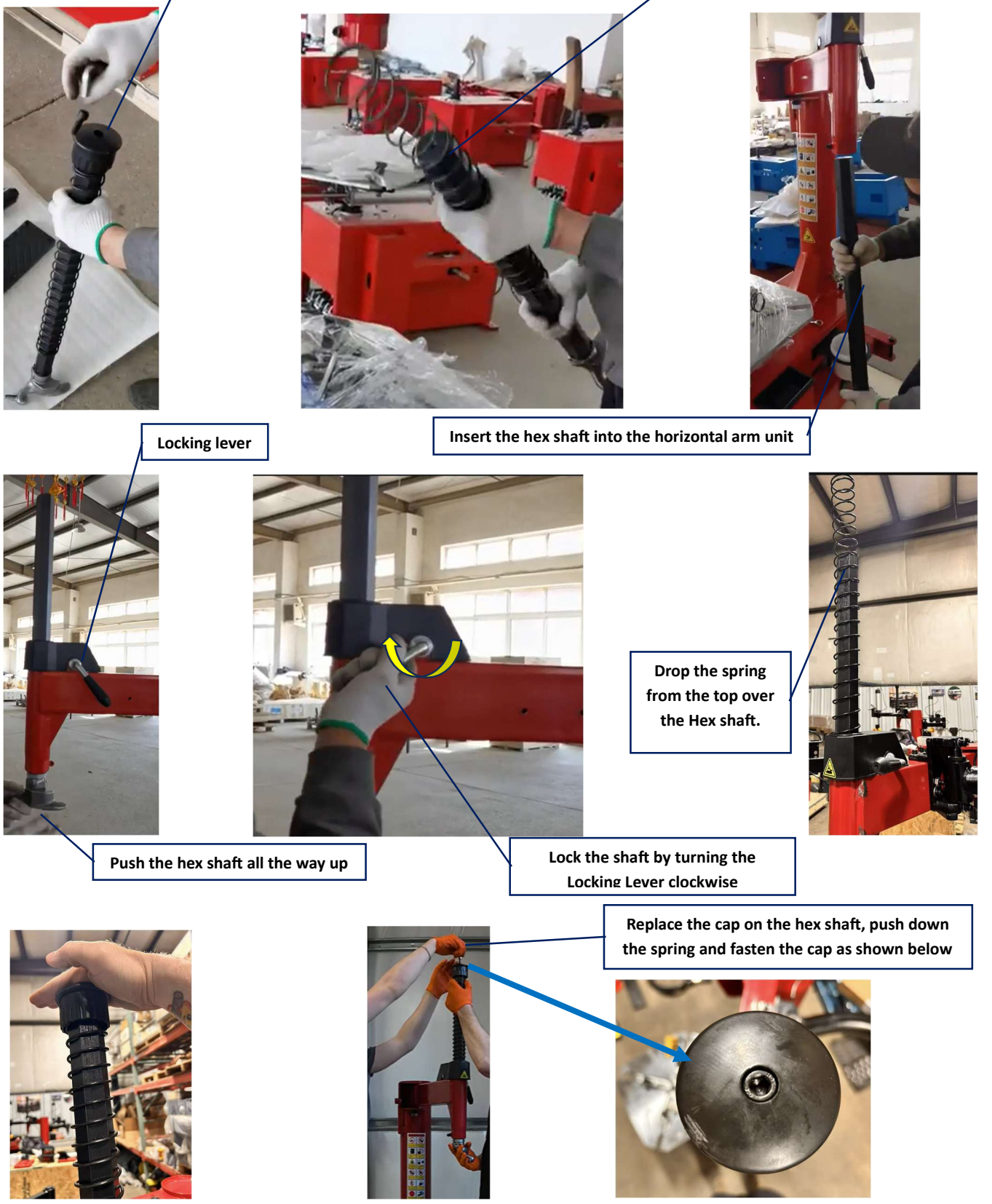

Remove the spring retainer cap from Hexagon Shaft Unit
Remove the spring from the Hex shaft
Locking lever
Insert the hex shaft into the horizontal arm unit
Drop the spring from the top over the Hex shaft.
Push the hex shaft all the way up
Lock the shaft by turning the Locking Lever clockwise
Replace the cap on the hex shaft, push down the spring and fasten the cap as shown below

Figure: 7

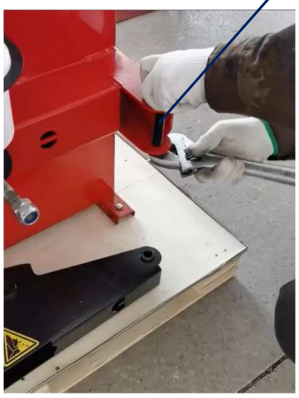
Install the seal in the Turbo Blast Hose Assembly.



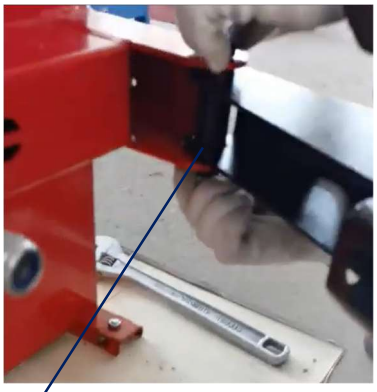


Connect the Turbo Blast Hose Assembly to the tower.

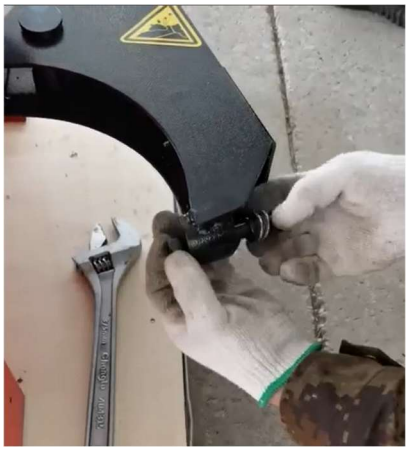
Remove the bolt from the bead breaker blade arm

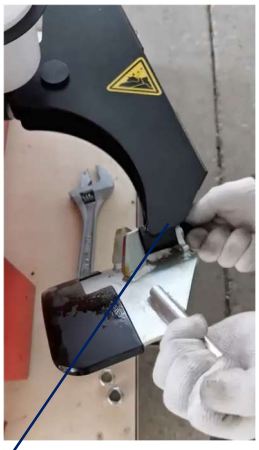






Install and secure the bead breaker weldment arm with the bolt provided







Install and secure the bead breaker

Figure: 8

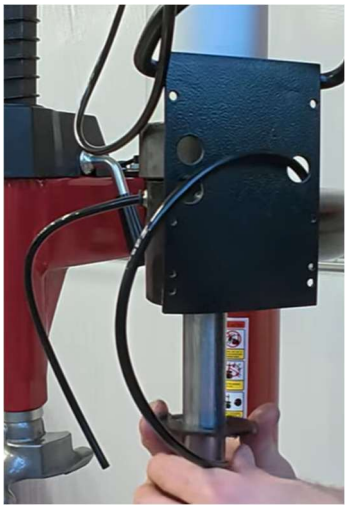




Connect the bead breaker cylinder to the bead breaker weldment arm and secure the double

Install the assist arm cylinder from the top and secure it with mounting plate from the bottom







Cylinder mounting holes.

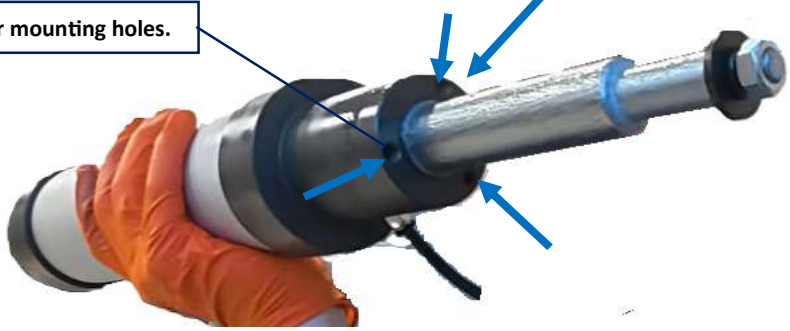


Figure: 9

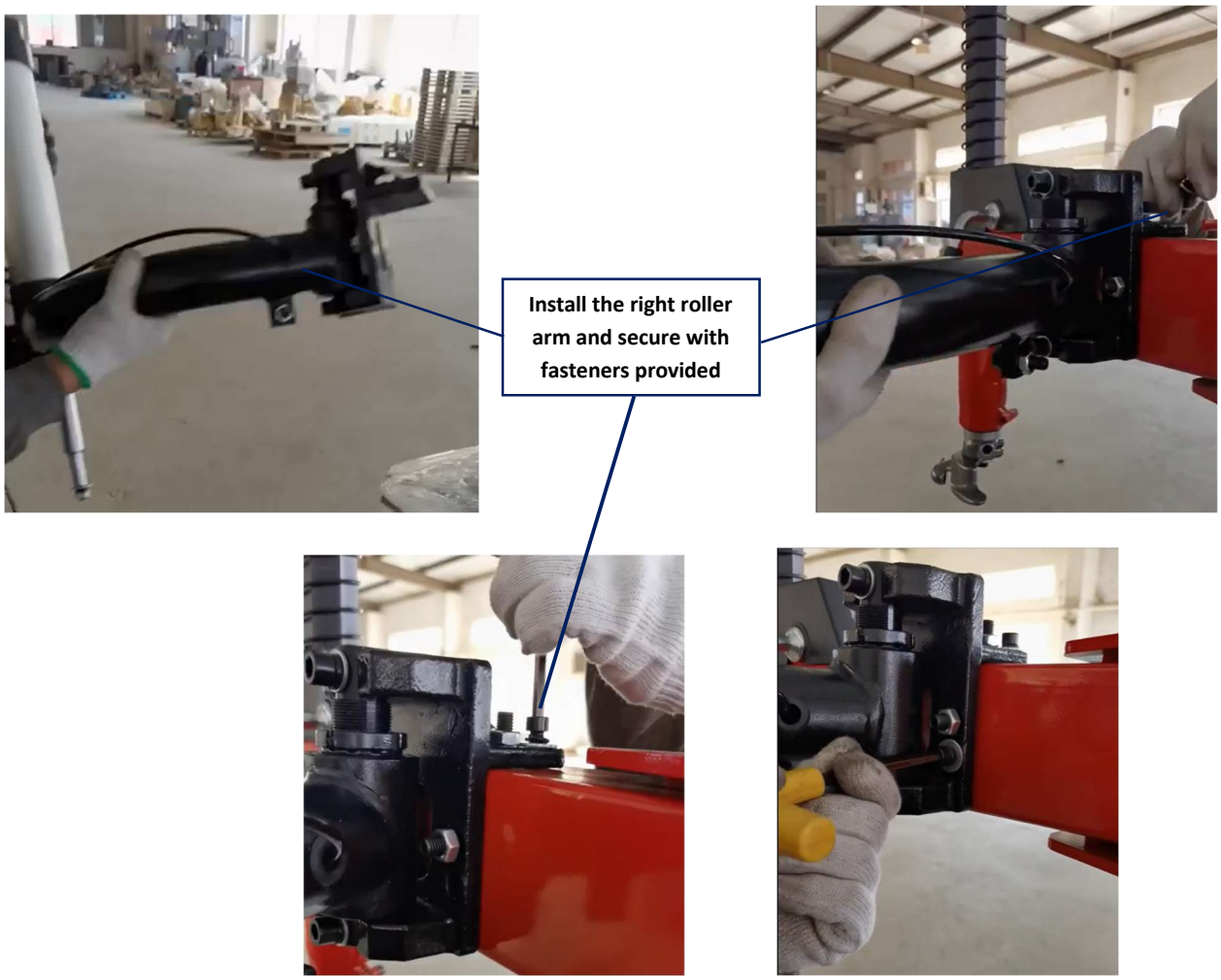

Install the right roller arm and secure with fasteners provided
Install the roller wheel on the arm.

Figure: 10







Pass the air line through the hole in the mounting plate and connect to the UP/DOWN switch and install the box to the mounting plate of the roller arm.

Install the inflation box unit while securing the left assist arm

Secure with fasteners provided









Connect the air line to the pump.









Figure: 11

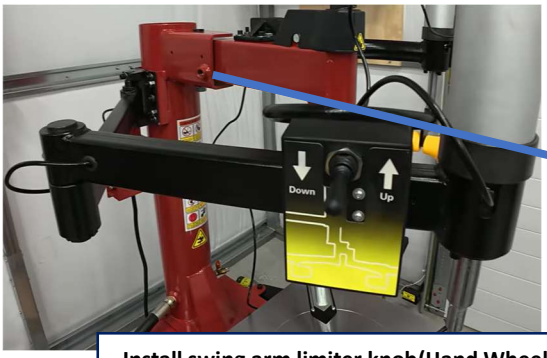
Install the assist foot on the left arm cylinder.







Pass the air line through the hole in the mounting plate and connect to the UP/DOWN switch and install the box to the mounting plate of the assist arm.





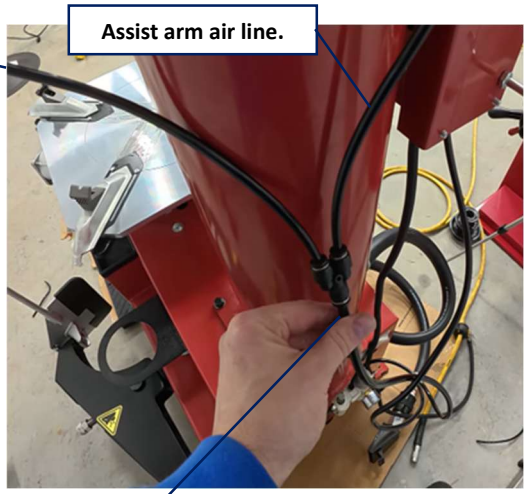
Install swing arm limiter knob(Hand Wheel).

Roller arm air line.

Assist arm air line.







Connect the air line form the roller and assist arm to the “Y” fitting.

Figure: 12

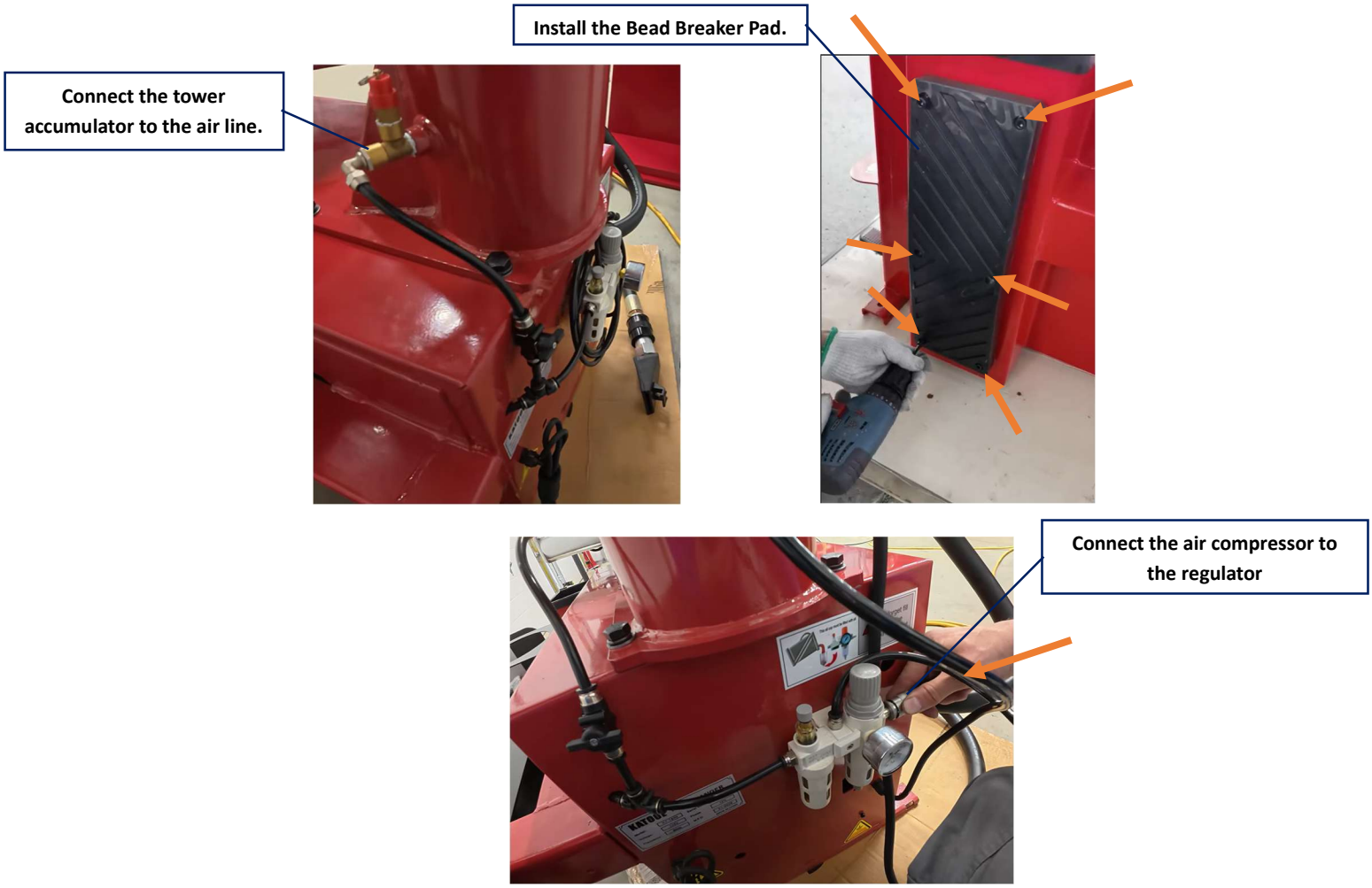


Figure 13

2.4 Electrical installation

Plug in the power cord to the wall outlet (110V, 60 Hz).

3.0 Turning ON the Tire Changer

Step 1: Turn on the power and air supply, depress the Turntable Rotation pedal “V3” (See Figure 36), and confirm that the turntable turns clockwise. Push the Turntable Rotation pedal up, the turntable should turn anti-clockwise. (If the turntable turns opposite to the specified rotation, the air lines to the three-phase plug air connected in reverse. Turn off the air and power to the tire changer and swap the air lines).

Step 2: Press the Bead Breaker Pedal “V2” (See Figure 36), the bead breaker should move towards the bead breaker pad.



***Stay clear of the bead breaker during the above operation. ***

When the pedal is released, the Bead Breaker should return to the original position.

Step 3: Press the Jaw Clamp Pedal “V3”, to open the 4 wheel-clamps; release the Jaw Clamp Pedal to return the clamps to the original position.

Step 4: Swing Arm / Vertical Shaft / Mount-Demount Head Assembly Operation

- Raise the Vertical Shaft / Mount-demount head assembly to the highest position and lock it in place by turning the Locking Handle clockwise.
- Turn the locking handle counter clockwise to release the Vertical Shaft / Mount-demount head assembly and lower it.

Step 5: Push down the UP/DOWN lever “H” for the Assist Arm Cylinder to bring down the tire assist, release the lever to raise the tire assist.

Step 6: Push down the UP/DOWN lever for the Roller Arm Cylinder to bring down the roller assist, release the lever to raise the roller assist.

3.1 Operating instructions

3.1.1 Tire Removal

Standard Wheels

- Check to ensure air compressor is connected and there are no air leakages.

- Remove the valve from the valve stem to deflate the tire.

- Place the tire in the Bead Breaker and press the pedal “R” (See Figure 36) to actuate the bead breaker and loosen the bead/sidewall from the wheel. Turn the wheel and repeat the operation in multiple locations to completely remove the sidewall from the wheel.



Figure: 14

- Turn wheel around and repeat the above procedure on the other side of the wheel. Make sure that the whole tire sidewall has been removed from the rim.



Figure: 15

- Apply tire manufacturer's approved rubber lubricant liberally to entire circumference of both upper and lower beads after loosening bead and placing on turntable.

- Determine the mounting side of the wheel. The mounting side is the narrow side of the drop center. Place the wheel with the mounting side down on the turntable.

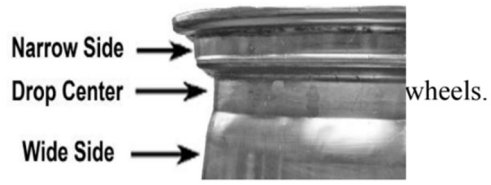


Figure: 17

- Press the clamp pedal "V3" to open the wheel clamps. Place the wheel on the turntable and release V3 to clamp the wheel.

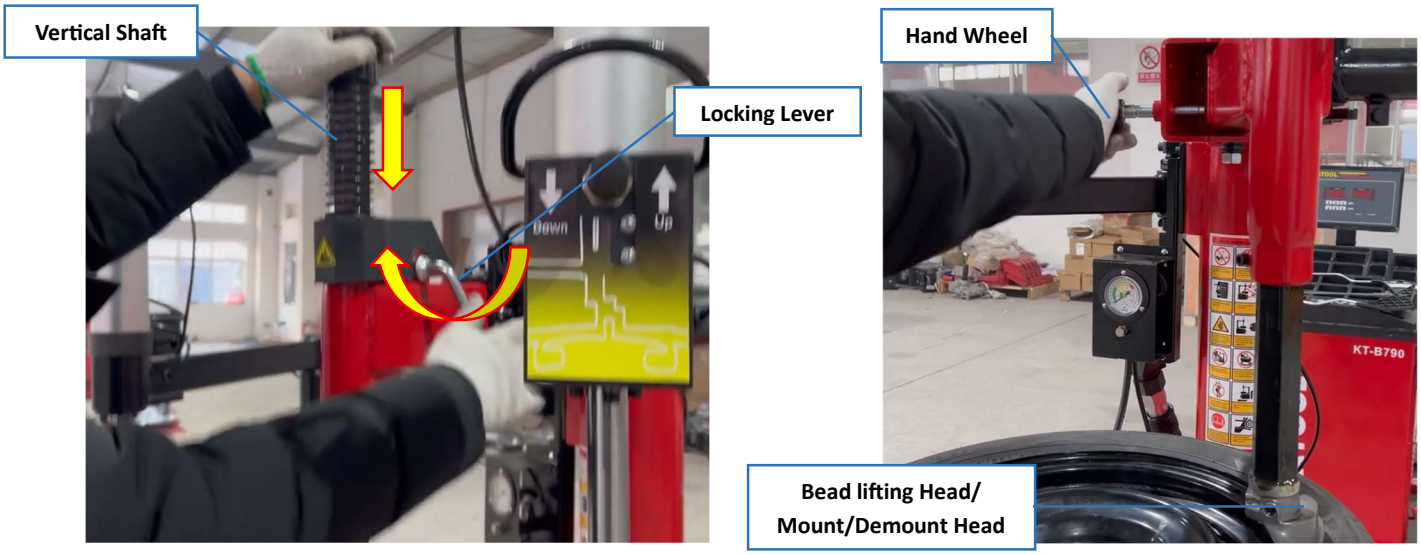
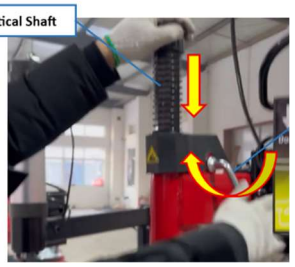


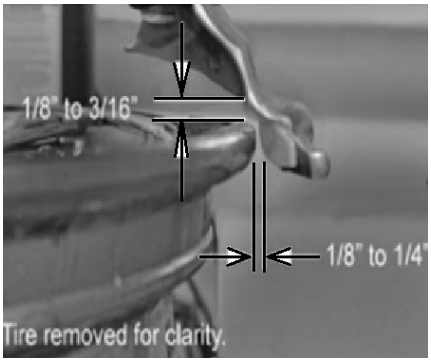
Figure 18: Lowering of Mount/Demount Head and locking of vertical shaft

- After the wheel is secured to the Turntable, swing the Vertical Arm into position. Use the Hand Wheel to position the Mount/Demount Head directly over the edge of the rim.

- Push the Vertical Shaft down and position the Mount/ Demount Head into contact with the rim edge. Swing the locking lever clockwise to lock the vertical shaft in position.



- Pull the locking lever towards you to lock the Vertical Shaft into position. As the slide is locked, the Mount/ Demount Head will move upward approximately 1/8 inch and backward 1/8 inch from the rim edge. The Mount/Demount head roller should not be in contact with the rim edge.



NOTE:

THIS CLEARANCE WILL BE MAINTAINED AS LONG AS THE VERTICAL SHAFT REMAINS LOCKED. THE OPERATOR MAY SWING THE ARM OUT OF THE WAY AND BACK INTO PLACE AGAIN WITHOUT NEEDING TO REPOSITION THE HEAD WHEN CHANGING A LIKE SET OF WHEELS. THE TOOL CLEARANCE MAY CHANGE WITH MACHINE USE AND SHOULD BE INSPECTED OFTEN.

Figure: 19

- Rotate the wheel using the Turntable Pedal V3 until the valve stem is at the 3 o'clock position in relation to the Mount/Demount Head.

- Insert the smooth curved end of the Bead Lifting Tool over the tab side of the Mount/Demount Head and below the top bead of the tire.



Figure: 20

- Push the Bead Lifting Tool down and away from the wheel to lower the bead into the Drop Center while lifting up on the Turntable Pedal V3 to rotate the turntable counter- clockwise.

⚠ DANGER

THE BEAD LIFTING TOOL AND DEMOUNT HEAD MAY ENCOUNTER RESISTANCE OR COME UNDER LOAD AT TIMES DURING THE MOUNT AND DEMOUNT ROCEDURES. KEEP ONE HAND FIRMLY ON THE TOOL TO AVOID POSSIBLE TOOL KICK BACK.

- Push the Bead Lifting Tool down toward the wheel to lift the tire bead up and over the tab of the demount head. Hold the Bead Lifting Tool in this position. Depress the Turntable Foot Pedal to rotate the wheel clockwise.



Figure: 21

- Hold the Bead Lifting Tool down until the upper bead is solidly above the rim.

- Continue rotating the wheel clockwise until the upper bead is completely demount.

- Liberally lubricate the lower bead again, if the lower bead was not accessible previously

- Insert the smooth curved end of the Bead Lifting Tool over the tab end of Mount/Demount Head and below the lower bead of the tire. Push the Bead Lifting Tool down toward the wheel to lift the tire bead up and over the left tab side knob portion of the Mount/Demount Head. Hold the Bead Lifting Tool in this position.



Figure: 22

- Depress the Turntable Pedal V3 to rotate the wheel.

- The Mount / Demount Head will guide the bead up and over the edge of the wheel. Continue rotation until the lower bead is demount.

Custom and Special Wheels

⚠ CAUTION

IF A CUSTOM WHEEL IS DAMAGED WHILE DEMOUNTING, STOP, AND AVOID DAMAGING THE OTHER WHEELS. CONTINUE ONLY WHEN THE CAUSE IS IDENTIFIED AND CORRECTED.

Alloy Wheels

⚠ CAUTION

Some manufacturers offer wheels with little or no drop center. These are not DOT approved. The tire or wheel -or both - can be damaged and the tire could explode under pressure, resulting in serious injury or death. If you attempt to mount/demount this type of wheel, use extreme caution.

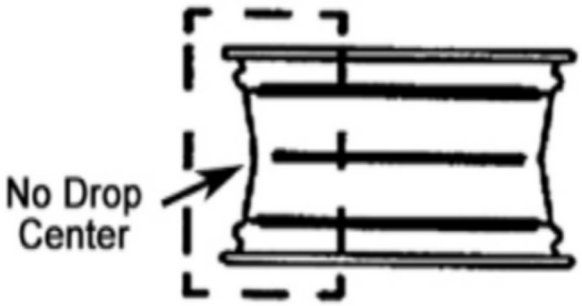


Figure: 23

Wheels with Tire Pressure Warning Sensor (TPMS)

⚠ CAUTION

If there is TPMS installed on the wheel, to prevent damage to the TPMS, only break the bead at 90 degrees from the TPMS.

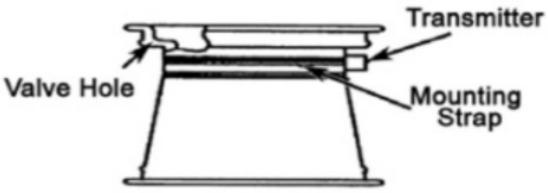


Figure: 24

Demounting Tube Type Tires

- After both tire beads are loosened, try to remove the tube. If you cannot remove the tube lubricate the beads and rim liberally.
- Position the demount head and bead lifting tool as described earlier paying careful attention not to pinch the tube. Depress the Turntable Pedal V3 and rotate only a short distance at a time. This allows you to stop the process should you suspect the tube is getting pinched.
- After upper bead is demount, remove tube and demount lower bead.

REMEMBER:

TURNTABLE ROTATION CAN BE STOPPED AT ANY TIME BY REMOVING YOUR FOOT FROM THE ROTATION PEDAL. NORMAL TURNTABLE ROTATION DIRECTION FOR DEMOUNTING IS CLOCKWISE. DEPRESS THE TURN TABLE V3 TO ROTATE THE TABLE IN THIS DIRECTION. TO ROTATE THE TURNTABLE COUNTERCLOCKWISE, LIFT THE PEDAL

3.1.2 Mounting Tires

Mounting Tubeless Tires

- Inspect the wheel closely for damage. Clean the wheel and remove any light corrosion or rubber residue. Do not attempt to service heavily corroded wheels.
- Inspect tire for damage, paying close attention to the beads. Verify that the tire and wheel size match each other.
- Lubricate both tire beads liberally with tire manufacturer's approved lubricant.
- Place tire over wheel and move Vertical Arm and Mount/ Demount Head into position as described earlier.
- Manually push the tire down into the drop center of the wheel directly across from the Mount/ Demount Head to reduce the tension force on the bead. Depress the Turntable Pedal V3 and rotate the wheel to begin mounting the lower bead. Rotate the Turntable until the lower bead is fully mounted.

- Swing the Assist Arm into position and lower the Roller Arms so that they press down on the tire to hold the upper bead in the drop center. The Upper Arm must be locked and positioned next to the Mount-demount Head.
- Depress the Turntable Pedal V3. As the Turntable rotates, the lowered Roller Arm will follow the tire around. Keep rotating the table until the bead is mounted



Figure: 25

Mounting Tube Type Tires

- Lubricate the beads and rim liberally.
- Position the Mount/Demount Head as described earlier. Mount the bottom bead first.
- Apply rubber lubricant to the tube. Insert the tube into the tire, paying careful attention not to pinch the tube. Round out the tube with a small amount of air.
- Lower the Arm Rollers onto the tire as described earlier.
- Depress the Turntable Pedal V3 and rotate only a short distance at a time.
- Mount the top bead.

⚠ WARNING

- **READ AND FOLLOW THE INFORMATION IN THIS SECTION CAREFULLY TO PREVENT ACCIDENTS AND MISSHAPS**

- **CHECK TIRE AND WHEEL CAREFULLY BEFORE MOUNTING. MAKE SURE THE TIRE BEAD DIAMETER AND WHEEL DIAMETER MATCH EXACTLY. CONSULT THE RUBBER MANUFACTURER'S ASSOCIATION FOR APPROVED RIM WIDTHS FOR TIRE SIZES.**

- **NEVER MOUNT A TIRE AND WHEEL HANDED TO YOU BY ANYONE WITHOUT CHECKING BOTH TIRE AND WHEEL FOR DAMAGE AND COMPATIBILITY. NEVER MOUNT A DAMAGED TIRE. NEVER MOUNT A TIRE ON A RUSTY OR DAMAGED WHEEL.**

- **THE RIM AND BEAD MUST BE LIBERALLY LUBRICATED. FAILURE TO USE AN ADEQUATE LUBRICANT CAN LEAD TO THE BEAD BINDING ON THE RIM AND LEAD TO DAMAGE TO THE TIRE.**

- **ATTEMPTS TO FORCE A BEAD SEAT ON MISMATCHED TIRES AND WHEELS CAN CAUSE THE TIRE TO VIOLENTLY EXPLODE, LEADING TO SERIOUS PERSONAL INJURY OR DEATH**

- **IF YOU DAMAGE THE TIRE BEAD DURING MOUNTING, STOP! REMOVE THE TIRE AND MARK IT AS DAMAGED. DO NOT MOUNT A DAMAGED TIRE.**

- **LOW PROFILE TIRES MAY REQUIRE USE OF THE BEAD BLASTER**

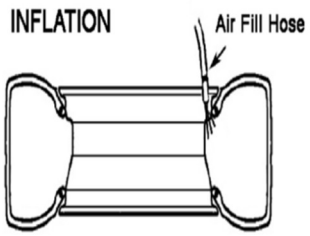
- **DO NOT FORCE THE TIRE ONTO THE RIM. THIS COULD RESULT IN TIRE DAMAGE AND/OR CREATING THE RISK OF INJURY.**

3.1.3 Inflating Tires

Review the following instructions carefully. Refer to them as necessary during tire inflation to verify that you are proceeding properly and safely. It is the operator's responsibility to follow all instructions and to control inflation pressure as specified in these instructions.

Tire Pressure Check- With the Inflation Hose attached to the tire valve and the Tire Inflation Pedal "U" not depressed in this position, the air gauge will register the air pressure in the tire.

Bead Sealing - Position valve stem in front of operator and connect the inflation hose after removing the valve core. Step on the tire inflation pedal to allow air to flow into the tire and seal the beads. To seal low profile or difficult beads use the Bead Blaster.



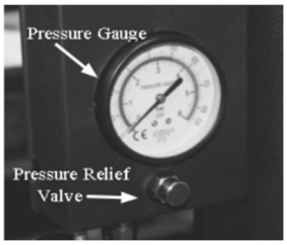


Figure: 26

Bead Seating – Bead seating usually occurs on the long-tapered side of the wheel first and the shorter side last. Bead seating will usually require at least 7 PSI in the tire. 40 PSI is the maximum safe pressure at this stage regardless of tire operating pressure. Most European import cars and many aftermarket alloy wheels are very tight and can be difficult to bead seat. Also note that asymmetrical hump and run-flat tires are extremely difficult to bead seat. Follow tire manufacturer's recommended procedure for bead seating.

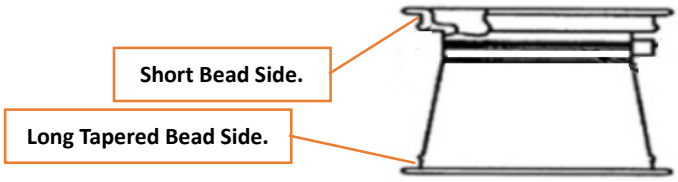


Figure: 27

Once tire pressure starts indicating on the air gauge with Tire Inflation Pedal depressed, continue to inject air into the tire in short intervals. Check the pressure frequently. Stand back during bead seat. Keep hands, arms, and entire body away from tire during this procedure. Tire beads should move outward and “pop” into their bead seat position as pressure inside the tire increases. If this does not happen, look for the source of the leak carefully around the wheel.

Bead Blaster Operation –

PULL the Slide Valve back to close the bead blaster.

To turn on the Bead Blaster, PUSH the Slide Valve Forward.

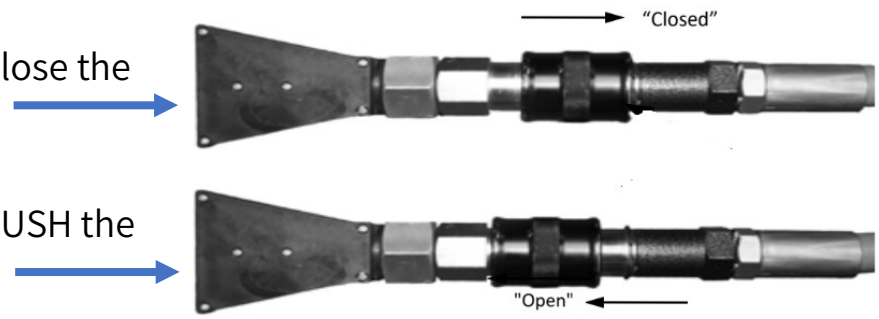


Figure: 28

- Position the Bead Blaster Nozzle to the direct air towards the Rim Center just under the Rim Lip.



Figure: 29

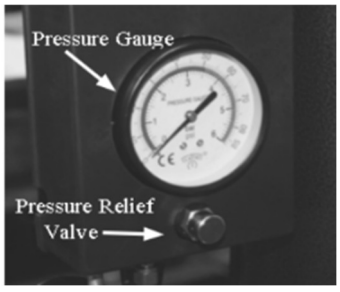
- Depress inflation pedal and open the Bead Blaster Nozzle Valve for less than one full second. The blast of air from the Nozzle will expand the tire and seal the beads.
- Repeat these steps if beads have not sealed. It will be necessary to wait a few seconds for the air storage tank to recover before attempting again.
- If the tire and wheel are properly lubricated and operator cannot achieve bead seal after a few attempts, check to see if the valve core has been removed from the valve stem to allow more air flow into the tire to assist with bead seal. After bead seal is achieved, remove the chuck and reinstall the valve core.

Tire Inflation - With the Inflation Hose attached to the tire valve and the pedal depressed, line pressure is allowed to flow through the valve and into the tire for inflation. Tire pressure is not indicated on the gauge in this position. Lift the foot off the pedal to see the tire pressure on the gage.

The unit is equipped with a Pressure Limiter/Regulator to assist the operator with proper tire inflation. The Pressure Limiter will keep most car and light truck tires from inflating beyond 60 PSI.

Stage Four / Tire Inflation

- Make sure both beads are seated. When both beads are seated, the tire is ready for inflation.
- Replace the valve core if it was removed.
- Depress the Tire Inflation Pedal to inflate the tire.
- Do not inflate the tire above the manufacturer's recommended pressure as stamped on the tire sidewall. The typical inflation pressure for automobile tires is between 24 and 45 PSI. Light truck inflation pressure typically covers a wider range. In an over pressure condition release air pressure from the tire by pressing the manual Pressure Relief Valve



⚠ CAUTION

NOTE:

WHEN INFLATING TIRES THAT REQUIRE MORE THAN 60 PSI, ALWAYS USE A SAFETY CAGE AND AIR HOSE WITH A CLIP-ON AIR CHUCK AND IN-LINE VALVE. THE HOSE MUST HAVE ENOUGH LENGTH BETWEEN THE CHUCK AND THE OPERATION/IN-LINE VALVE TO ALLOW THE TECHNICIAN TO STAND AT A SAFE DISTANCE FROM THE WHEEL.



Figure: 30

⚠ WARNING

- **CHECK INFLATION GAUGE FOR PROPER OPERATION.**
- **ACCURATE PRESSURE READINGS ARE IMPORTANT FOR SAFE TIRE INFLATION.**
- **REFER TO THE OPERATING MAINTENANCE SECTION OF THIS MANUAL FOR INSTRUCTIONS TO MAINTAIN THE GAGE.**
- **IF THE RIM HAS BEEN CLAMPED FROM THE OUTSIDE FOR TIRE MOUNTING, RELEASE THE CLAMPS ONCE BEAD SEAL IS OBTAINED.**
- **LIFT THE TIRE AND MOVE THE CLAMPS TO THE CENTER OF THE CLIPON AIR CHUCK ON THE END OF THE INFLATION HOSE. ALL INFLATION RELATED COMPONENTS SHOULD BE CHECKED WEEKLY FOR PROPER OPERATION.**

- **DO NOT USE THIS MACHINE FOR TIRE INFLATION IF ANY PARTS ARE DAMAGED OR APPEAR NOT IN PROPER WORKING ORDER.**

- **TIRE FAILURE UNDER PRESSURE IS HAZARDOUS. THIS TIRE CHANGER DOES NOT HAVE ANY SAFETY DEVICE TO CONTAIN EXPLODING TIRES, TUBES, WHEELS, OR BEAD SEALING EQUIPMENT. INSPECT TIRE AND WHEEL CAREFULLY FOR MATCH, WEAR, OR DEFECTS BEFORE MOUNTING.**

- **THIS TIRE CHANGER DOES NOT HAVE ANY PROTECTION FOR ACCIDENTAL EXPLOSION OF OVER INFLATED TIRES. THEREFORE, DURING TIRE INFLATION KEEP HANDS AND BODY CLEAR AT ALL TIMES AND AS FAR BACK AS POSSIBLE FROM THE TIRE CHANGER. DO NOT LEAN OVER THE TIRE WHILE INFLATING. AN EXPLODING TIRE, RIM OR OTHER WHEEL COMPONENTS CAN CAUSE SERIOUS INJURY.**

- **AS AN ADDED SAFETY PRECAUTION, SAFETY CAGES THAT CONFORM TO OSHA STANDARD 1910 177 ARE RECOMMENDED FOR THE TIRE CHANGER.**

- **NEVER POINT THE BEAD BLASTER NOZZLE TOWARDS YOURSELF OR OTHER PERSONS. INSPECT NOZZLE, TIRE AND WHEEL FOR DEBRIS. NOZZLE MUST BE POINTED TOWARD TIRE BEAD AREA. HOLD NOZZLE SECURELY WITH BOTH HANDS AT ALL TIMES. NEVER OPERATE THE NOZZLE WITHOUT A TIRE AND WHEEL POSITIONED ON THE TABLE.**



- **NEVER EXCEED 40 PSI WHILE SEATING BEADS. ONCE SEATED, NEVER EXCEED TIRE MANUFACTURER'S RECOMMENDED AIR PRESSURE. TIRES CAN EXPLODE, ESPECIALLY IF THEY ARE INFLATED BEYOND THEIR LIMITS. AT ALL PRESSURE LEVELS WHEN INFLATING THROUGH THE VALVE STEM, KEEP HANDS, ARMS, AND ENTIRE BODY AWAY FROM INFLATING TIRE. AN EXPLODING TIRE, WHEEL, OR BEAD SEALING EQUIPMENT MAY PROPEL UPWARD AND OUTWARD WITH SUFFICIENT FORCE TO CAUSE SERIOUS INJURY OR DEATH.**

- **IF OPERATOR IS UNABLE TO OBTAIN BEAD SEAT, SOMETHING IS WRONG. DEFLATE TIRE COMPLETELY, INSPECT TIRE AND WHEEL, CORRECT ANY PROBLEMS FOUND, RE-LUBRICATE BOTH TIRE BEADS, AND REATTEMPT BEAD SEAL AND SEAT PROCEDURES. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND ON THE MACHINE.**

4.0 Maintenance

WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION WHEN MAKING ANY ADJUSTMENTS OR REPAIRS TO THE MACHINE.

- Only authorized personnel may perform maintenance.
- To extend the service life of the tire changer, perform maintenance as specified in this manual. Failure to perform regular maintenance may reduce machine performance and reliability and could create a hazard for the operator or nearby personnel.
- **Before performing any maintenance:**
  1. **Turn off the machine and disconnect the electrical power supply.**
  2. **Disconnect the compressed-air supply.**
  3. **Press the pedal three to four times to release any remaining air pressure from the system.**
- Use diesel oil to clean the turntable, to prevent the formation of dirt. Apply lubricating oil in the skidway of the clamps.
- As shown in Figure 31, check the oil level in the oil-mist device. If the level is low, unscrew oil cup F and refill it.
- Use HG ISO VG32 oil (e.g., Esso Febis K32, Mobil Vacouline 1405, or Klüber 32).
- Press the pedal three to four times and check for oil drops entering oil cup F. If no oil drops appear, adjust screw D.
- As shown in Figure 31, 20 days after the first use of the machine, re-tighten the screw A and B that is in the clamps.

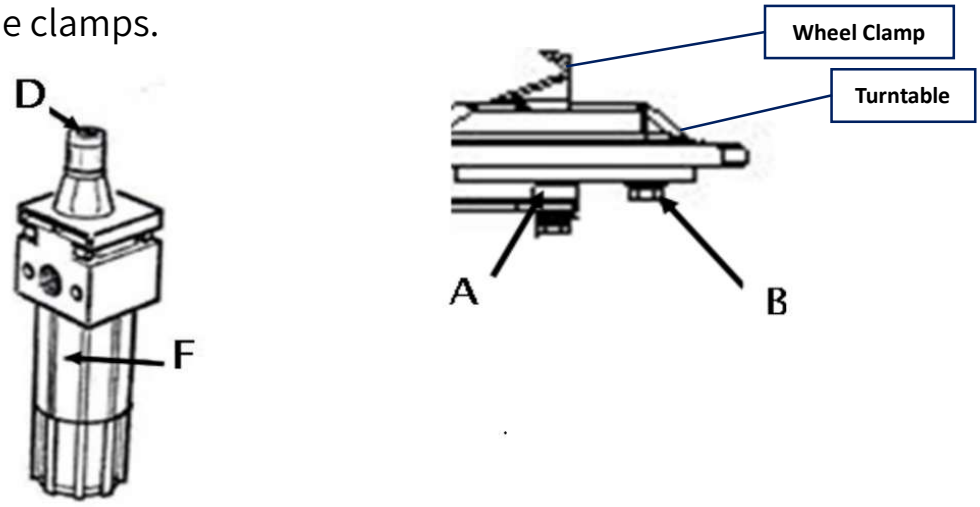


Figure: 31

- As shown in Figure: 32, if the machine does not have sufficient power, check and adjust the motor drive belt as follows:
- **Before performing any work, disconnect the power supply.**
  1. Remove the four screws on the side of the cabinet.
  2. Remove the tire changer's left-side protective panel.
  3. Use adjustment screw circled below (Figure 32), located on the motor support base, to adjust the drive belt tension.

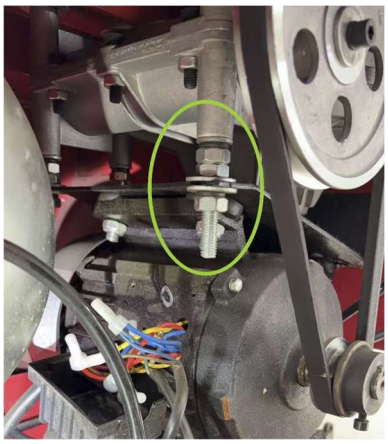


Figure: 32

As shown in Figure 33, follow these steps to clean or replace the silencer that controls opening and closing of the clamps (G):

1. Remove the four screws on the side of the cabinet.
2. Remove the tire changer's left-side protective panel.
3. Locate the silencers in the pedal valve system (V1 and V2), which controls opening and closing of the clamps (G).
4. Unscrew the silencer and clean it using compressed air.
5. If the silencer is damaged, replace it with a replacement part from KATOOL.



Figure: 33

Note:

- **Damaged parts must be replaced promptly by qualified personnel using original spare parts.**
- **Do not remove or replace safety devices, such as safety valves or control valves, without authorization. Doing so may violate applicable workplace safety regulations.**
- **The manufacturer is not responsible for damage caused by use of aftermarket parts or by unauthorized removal or disassembly of safety devices.**



BEFORE MAKING ANY INSPECTION ADJUSTMENT, OR REPAIR, DISCONNECT THE POWER SOURCE TO THE TIRE CHANGER AND OR AIR SUPPLY AND BLOCK OUT ALL MOVING PARTS TO PREVENT INJURY. KEEP THE MACHINE AND THE IMMEDIATE WORK AREA CLEAN. DO NOT USE COMPRESSEDAIR TO REMOVE DIRT AND DEBRIS FROM THE MACHINE. WEAR PROTECTIVE CLOTHING AND USE EYE PROTECTION WHEN MAKING ANY ADJUSTMENTS OR REPAIRS TO THE MACHINE.

5.0 Storage and Scrap

5.0.1 Storage

For long-time storage of machine, please disconnect all the energy supply, and lubricate the skidway of the clamps on the turntable to prevent oxidation.

5.0.2 Scrap

Follow your local regulations and requirements when scrapping any metal or non-metallic machine components. Discard any oil inside the machine at a designated oil recycling location.

6.0 Fault causes and Solutions

Note: if you cannot solve the failure, please contact the manufacturer to provide help. We will be the first time to help you to solve the failure. Provide the relevant fault information and fault pictures, thus the manufacturer can get rid of the trouble at the fastest speed.

6.0.1 Fault codes

Fault	Cause	Resolution
Unidirectional rotation of the turntable	Universal steering switch damage	Replace universal steering switch
Rotary table does not rotate	Triangle damage	Replace triangle belt
	Universal steering switch damage	Replace universal steering switch
	Motor fault or line fault	Check motor and external plug or socket
Rotary clamp opening /closing speed is slow	Muffler blockage	Clean or replace muffler
The turntable can't lock the rim correctly	Clamps have trouble	Replace clamps
	Rotary cylinder has trouble	Replace cylinder or repair cylinder sealing ring
Working head can touch the rim	Lock plate adjustment is not correct or faulty	Adjust or replace the locking plate (Figure 18/d)
	Working head screw loose	Tighten screws (Figure 12/a)
The pedal is not located at work position.	Return spring has trouble	Replace return spring
Operating difficulties of the tire device	Muffler blockage	To clean or replace the silencer (Figure 18/f)
	Cylinder sealing ring damage of pressure device	Replace sealing ring

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7.0 Safety Instructions

Exploding tires can cause death or serious injury.

- **Read Operator's Manual before using this Tire Changer.**
- **ALWAYS wear Safety Glasses or Goggles.**
- **Mismatched tires and rims or over-pressurized tires can explode causing flying debris.**
- ***Exploding tires can cause serious injury or death!***
- **NEVER exceed tire manufacturer's pressure limits.**
- **NEVER attempt to bypass or alter the built-in air pressure limiter.**
- **Keep bystanders away from work area.**

Contact with line power voltages can cause death or serious injury.

- **Do not operate equipment with a damaged power cord.**
- **If an extension cord is necessary, a cord with a current rating equal to or greater than that of the equipment should be used.**
- **Do not expose the equipment to rain or wet environment.**
- **Make sure to connect the unit with proper electrical power.**
- **Do not remove or bypass grounding pin.**
- **Only qualified service personnel should service this equipment.**
- **Disconnect power to the unit before servicing.**

Contact with moving parts could cause injury.

- **Keep hands and other body parts away from moving surfaces.**
- **Do not use tools other than those supplied with Tire Changer.**
- **Do not bypass any safety features.**

Debris, dirt, and fluids can cause serious eye injury.

- **Remove any debris from tire tread and wheel surfaces.**
- **Remove excess tire lubricant before mounting the wheel.**
- **Wear approved safety glasses during mount and demount procedures.**

Tools that break or slip can cause injury.

- **Read and understand the operation instructions before using the equipment.**
- **Use only the mount/demount tire tool supplied with the Tire Changer.**
- **Frequently inspect, clean, and lubricate (if recommended) where designated.**

Contact with moving parts can cause injuries.

- **Do not rotate the turntable without a wheel unless troubleshooting.**
- **Do not approach the turntable if it is moving.**
- **Pay attention to the claws when they project from the turntable.**
- **Do not overhang objects on the turntable.**
- **Do not place objects close to the turntable.**

8.0 Warning Label Locations

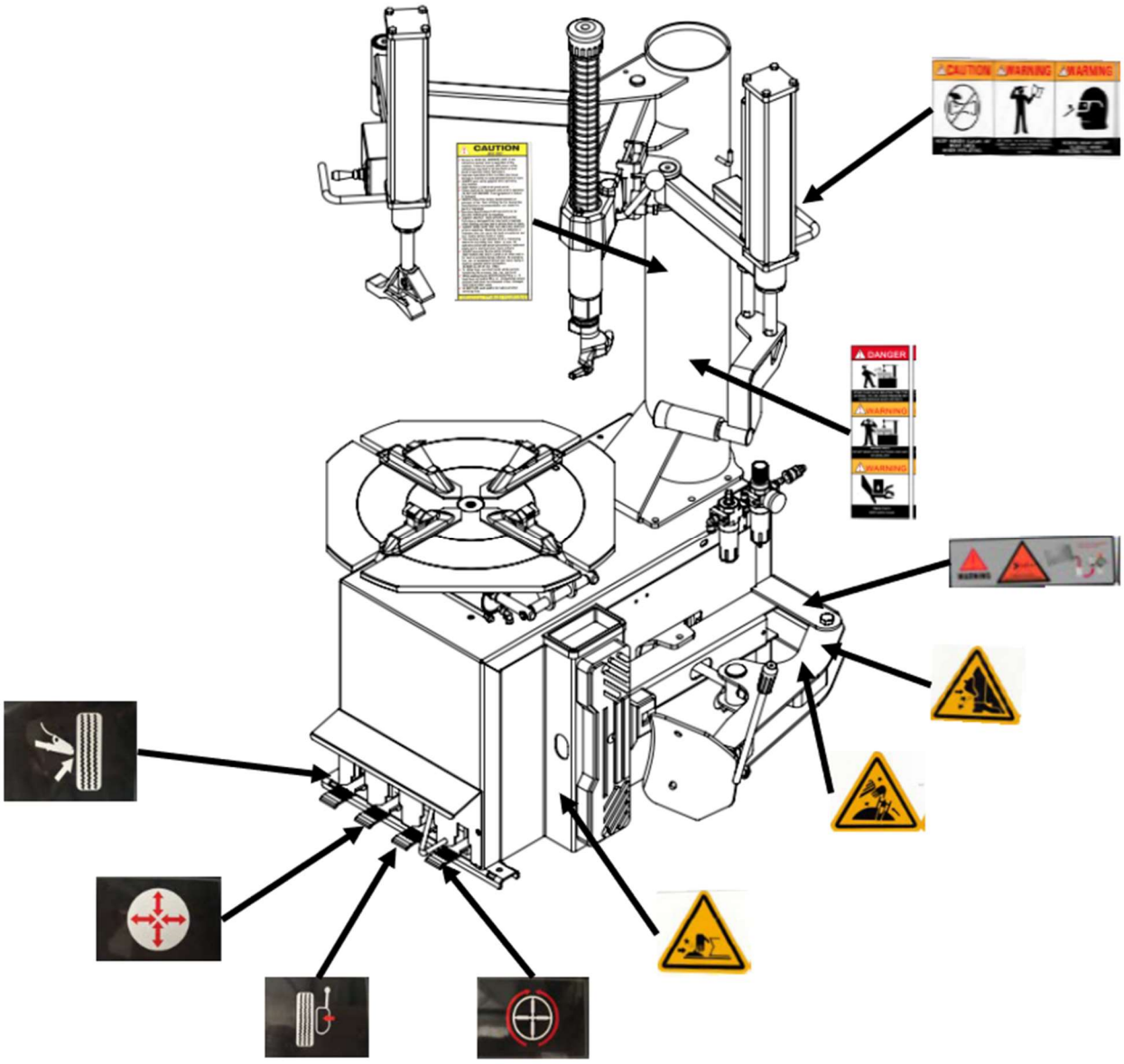


Figure 34

9.0 Key Machine Components

C: Bead Breaker Blade Arm
D: Horizontal Arm Unit
E: Assist Arm Cylinder
F: Roller Arm Cylinder
G: Wheel Clamp
H: UP/DOWN Lever Assist Arm
I: Bead Lifting Tool / Mounting / Dismounting head
J: Bead Breaker Weldment
K: 310 Helper Arm ASSY
M: Vertical Shaft
N: 210 Helper Arm ASSY
P: Tower
Q: Oil Dryer
R: Bead Breaker
U: Tire Inflation Pedal
V1: Wheel Clamp Pedal
V2: Bead Breaker Pedal
V3: Turntable Pedal
Y: Turntable
Z: Bead Breaker Pad

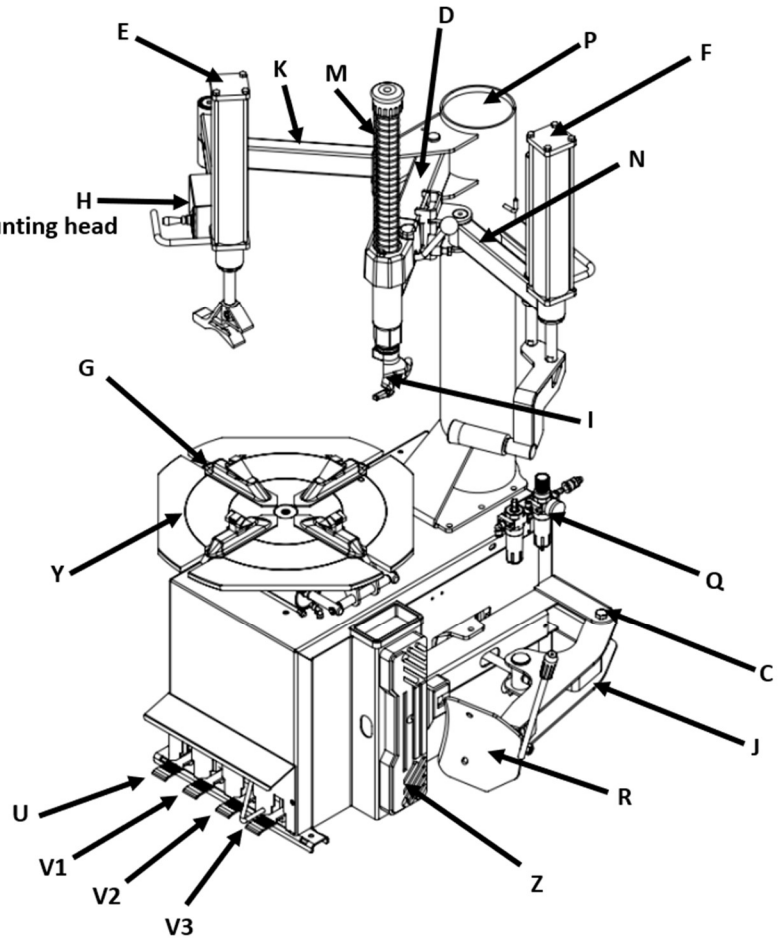


Figure 35



Figure 36

10.0 Parts List and Exploded Drawings

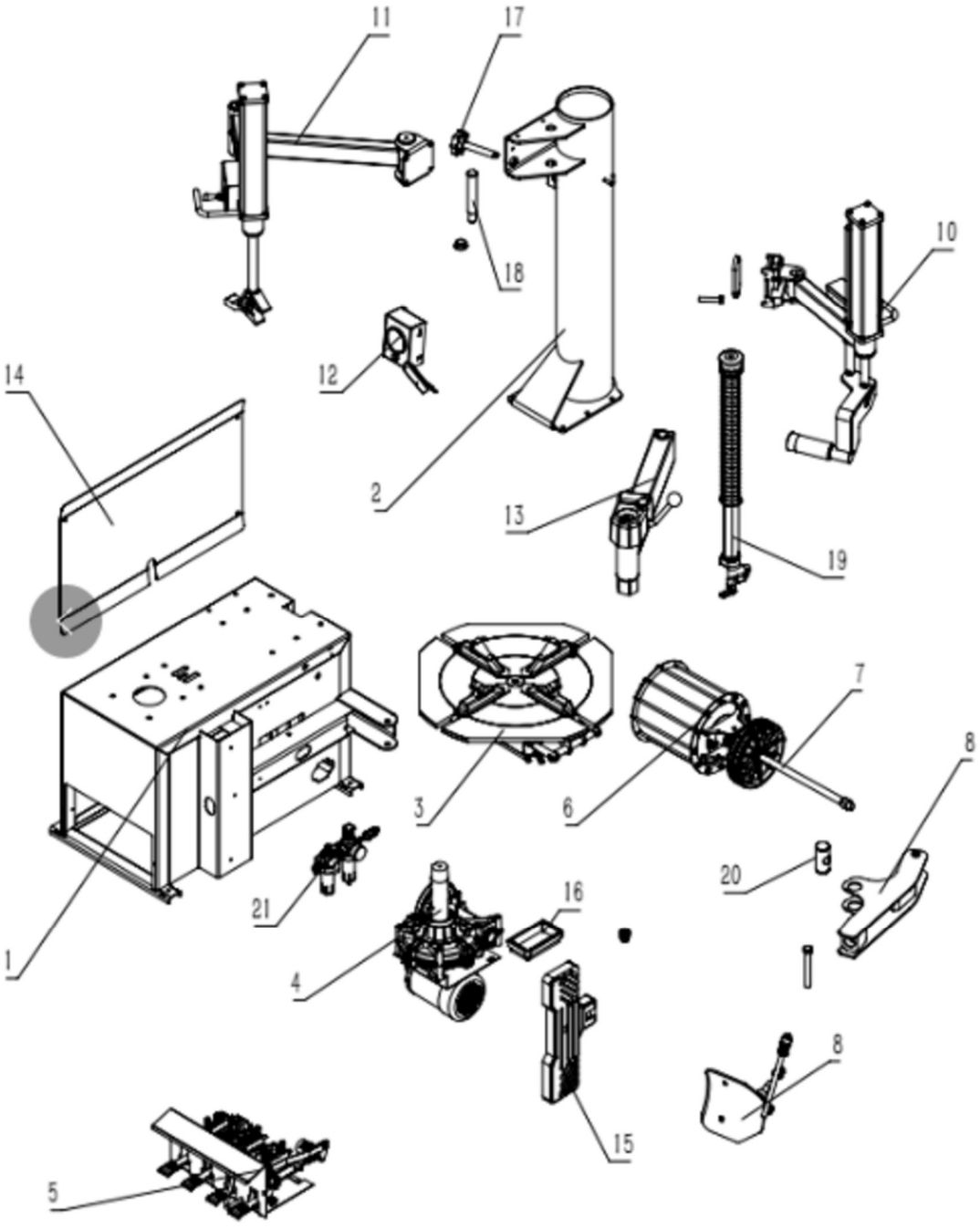


Figure 37

	Part #	Desciption
1	88013000	Box Weld
2	620+310A	Tower Weld
3	6206000	Turntable ASSY
4	6207000	Gear Box ASSY
5	8808000	Pedals ASSY
6	8805100	Φ200 Aluminum Cylinder Unit
7	8805200	Φ200 Aluminum Cylinder piston
8	5804000	Universal Blade Weld
9	620B420	Bead Breaker Weld
10	210 210	Helper Arm ASSY
11	310 310	Helper Arm ASSY
12	5704200	Inflation Box Unit
13	8803000	Horizontal Arm Unit
14	580A111	Side Cover
15	5621012	Bead Breaker Pad
16	8801013	Soap Bucket
17	8802008	Hand Wheel
18	8803007	Column Limit Rod
19	5622500	Hexagon Shaft Unit
20	62013404	Bead Breaker Blade Arm
21	301300	Air Drier Unit

Figure 38

11.0 Sales and Tech Support Contact info



Contact Info

Main Phone Number: (888) 636-1918

Sales: Ext. 101

sales@autokato.com

Tech Support: Ext. 102

(please follow voicemail prompts for fastest assistance or fill out our technical support form here)

technical.support@autokato.com

Commercial Accounts: Ext. 103

info@autokato.com

Amazon, eBay and Temu Purchase Inquiries:

Please send us a message directly on the platform where you made your original purchase.