KATOOL

Swing Arm Type Air/Electric Tire Changer MODEL

Models:

- KT-835

KT-835

⚠ DANGER

FOLLOW THE INSTRUCTIONS CAREFULLY TO GRANT THE MACHINE A CORRECT FUNCTION AND
LONG SERVICE LIFE.

SAFETY INFORMATION

⚠ IMPORTANT --- SAVE THESE INSTRUCTIONS --- DO NOT DISCARD ⚠

For your safety, read this manual thoroughly before operating the KT-T835 Tire Changer

The KT-T835 Tire Changer is intended for use by properly trained technicians. The safety messages presented in this section and throughout the manual are reminders to the operator to exercise extreme care when changing tires with this product.

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 KT-T835 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.

⚠ **DANGER** Read the entire contents of this manual before using this product.

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.

SAFETY INSTRUCTIONS

Exploding tires can cause death or serious injury.

- **Read Operator's Manual before using this Tire Changer.**
- **Never mount tire on rim with different sized diameter.**
- **Never exceed maximum inflation pressure listed on tire sidewall.**
- **Use a safety inflation cage if available.**
- **Always use attached air hose to inflate tires.**

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 environments.**
- **Provide the unit with proper electrical voltage.**
- **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.

- **Stand clear of bead breaker arm during operation.**
- **Apply air to breaker in bursts if necessary to control arm depth.**
- **Keep all persons clear of Tire Changer.**

Contact with moving parts could cause injury.

- **Read and understand the operation instructions before using this Tire Changer.**
- **Keep hands and fingers clear of rim edge during demounting and mounting process.**
- **Keep hands and fingers clear of mount/demount head during operation.**
- **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.**
- **Use proper tire lubricant to prevent tire binding.**

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

- **Remove any debris from tire tread and wheel surfaces.**
- **Remove excess tire lubricant before inflating.**
- **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 this Tire Changer.**
- **Use only the mount/demount tire tool supplied with the Tire Changer.**
- **Frequently inspect, clean, and lubricate (if recommended) where designated.**
- **Follow procedures when instructed in this manual.**

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.**

⚠WARNING

Mismatched tires and rims or over-pressurized tires can explode causing flying debris.

- **Read and understand Operator's Manual before operating.**
- **Keep bystanders away from work area.**
- **ALWAYS wear Safety Glasses or Goggles.**
- **ALWAYS check to see that tire and rim diameters are the same.**
- **NEVER attempt to mount or inflate any tire and rim with different diameters.**
- **Inspect tires. NEVER inflate tires that are damaged, rotten, or worn.**
- **NEVER inflate 'Split Rim Wheels'on this Tire Changer or remove them and use only an approved safety inflation cage designed for this purpose.**
- **Use approved tire bead lubricant before removing or installing tire on rim.**
- **NEVER place head or body over a tire during inflation process.**
- **Use short bursts of air to seat tire beads. Check tire air pressure frequently. NEVER exceed tire manufacturer's pressure limits.**
- **NEVER attempt to bypass or alter the built-in air pressure limiter. Only inflate tire with air hose supplied with Tire Changer.**
- **NEVER use shop inflation hose to inflate a tire.**

Exploding tires can cause serious injury or death!

Table of Contents

INTRODUCTION

Congratulations on your purchase of the KATOOL KT-T835 air-electric Tire Changer. This Tire Changer is designed for ease of operation, safe handling of rims, reliability, and speed. With a minimum of maintenance and care your KATOOL Tire Changer will provide many years of trouble-free operation.

Please read this manual thoroughly before operating the unit. Instructions on use, maintenance and operational requirements of the machine are covered in this manual.

USAGE: This semi-automatic Tire Changer has been designed and manufactured specially for mounting and demounting tires on to and off of rims.

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

SPECIFICATIONS

Model	**KT-T835**
External locking rim dimensions	13"-26"
Internal locking rim dimensions	14"-28"
Max tire diameter	1040MM
Max tire width	350MM
Table top rotation speed	6.1Min
Bead breaker Force(10bar)	2500kg/5500LBS
Working pressure	8-10bar(145psi)
Power supply voltage	110V/220V/380V,50/60HZ
Motor power	0.75KW-1.1KW
Dimensions	1150mmX785mmX885mm
Net weight	264KG
Working noise	<70dB

Before installing and using the KATOOL KT-T835 Tire Changer it is suggested that you become familiar with the nomenclature of the machine's components.

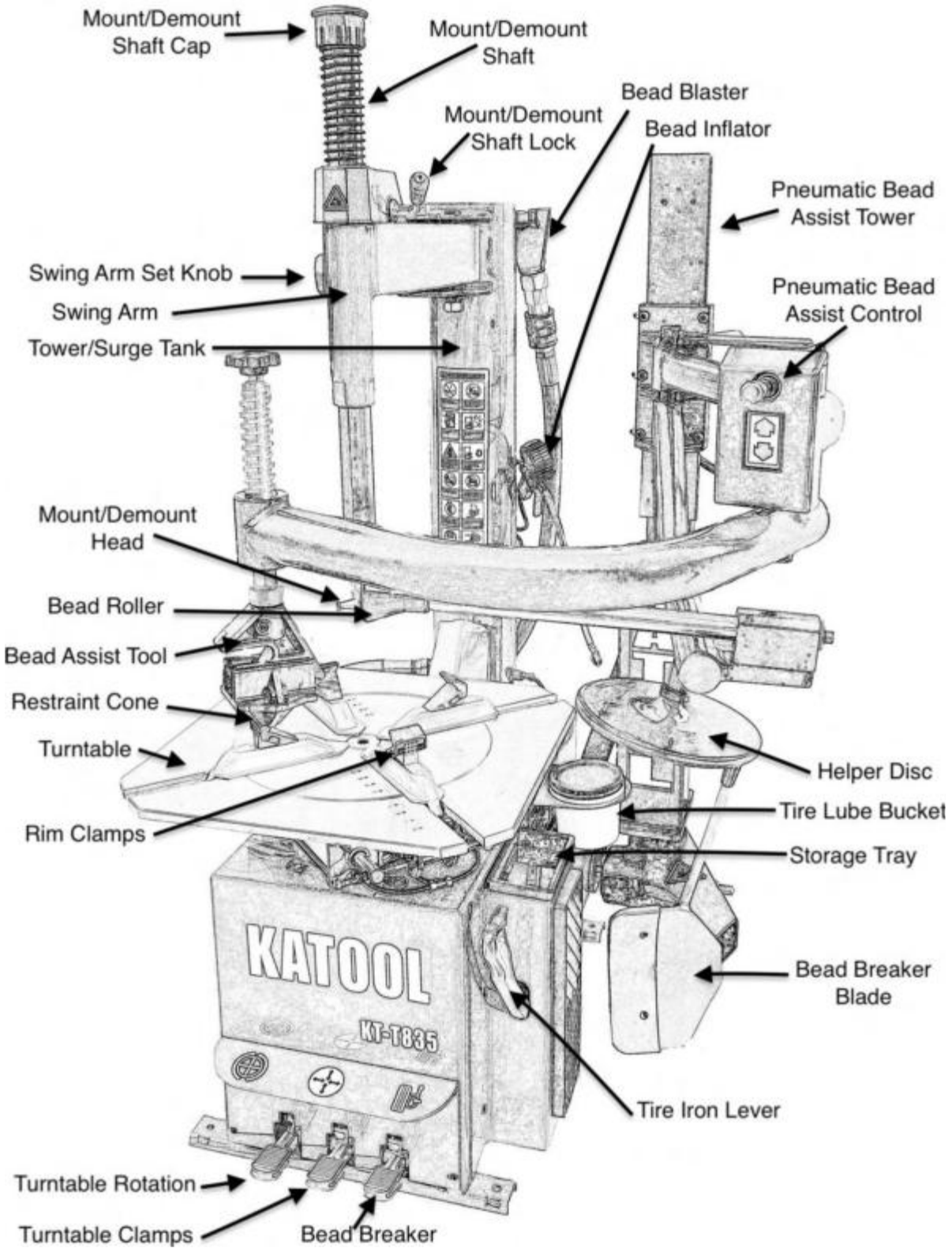


Fig.1

NOMENCLATURE

Turntable: Holds the tire and rim.
Rim Clamps: Holds the tire/rim in place. The Tire Changer comes with plastic protective covers for the clamps to protect the rim.
Tower/Surge Tank: Holds the Mount/Demount Head and provides air reserve for Bead Blaster.
Mount/Demount Head: Located on the bottom of the Mount/Demount Shaft on the Tower/Surge Tank, the Mount/Demount Head is used to both mount and demount tires. The Tire Changer comes with plastic inserts to protect the rim.
Mount/Demount Shaft: Moves the Mount/Demount Head up and down.
Mount/Demount Shaft Cap: Use to move the Mount/Demount Shaft down to the desiredheight.
Mount/Demount Shaft Lock: Locks and unlocks the Mount/Demount Shaft.
Bead Breaker: Used to break the beads of tires before you demount them. Includes a handle and blade.
Tire Iron Lever: Used to pull the bead edge of a tire over the Mount/Demount Head so the tire can be demounted from the rim. Can also be used to hold down a tire sidewall during tire mounting.
Bead Inflator: Controls air inflation into the tire. There is a pressure gauge on the inflator so proper tire inflation can be achieved. This inflator is regulated at 51 PSI to prevent over inflation of the tire. It has a self-gripping air chuck to aid in inflation of the tire and to allow you to stand back while setting the bead.
Bead Blaster: Directs a burst of high-volume air pressure to help seal a difficult tire bead.
Turntable Clamps Foot Pedal: Moves the Clamps to the opposite position. If in, they move out. If out, they move in.
Bead Break Foot Pedal: Moves the Bead Breaker Blade in. Once released, the Bead Breaker can be moved outward.
Turntable Rotation Foot Pedal: Rotates the Turntable. Press down and hold down to rotate the Turntable clockwise, press up and hold up to rotate the Turntable counterclockwise.
Regulator/Filter and Oiler/Lubricator: Control and route the incoming air.
Storage Tray: Can be used to hold tire valve and other small objects.
Restraint Cone: Used to hold the tire/rim in place during inflation or to press down on the rim to aid when external clamping.
Bead Roller: Holds the sidewall of a tire down during mounting. Can be adjusted as necessary to stay in a fixed position. Also used to hold down the sidewall when adding lubrication to the bead to aid in demounting.
Bead Assist Tool: Holds the sidewall of a tire down into the drop-center during mounting. Rotates with the tire.
Helper Disc: Holds up the tire so it can be demounted.
Pneumatic Assist Controls: Raises and lower the Tower Arms.
Tire Lube Bucket: Holds Tire Lubricant.
Extra Black Insert Plastic Pieces: Provided in case they are needed in the future.

PACKAGE

The Tire Changer is packed in a wooden box with reinforced metal corners and bolted to a pallet suitable for shipment. The package should be moved by means of a forklift and/or pallet jack of suitable capacity. Insert the forks at the points shown in figure Fig 2.

Your Tire Changer was carefully checked before shipping. It is your responsibility to thoroughly inspect the shipment **before** you sign to acknowledge that you received it. By signing the bill of lading, it tells the carrier that the items on the invoice were received in good condition. Do not sign the bill of lading until **after** you have inspected the shipment. If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

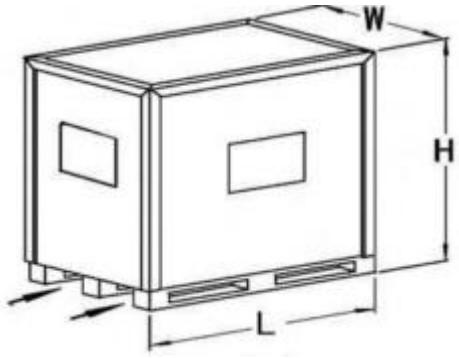


Fig 2
Main container is 31” Wide by 45” Long by 33” High.
The Helper container is 13” Wide by 48” Long by 17” High.

TOOLS

The following tools may be needed to assemble your Tire Changer:

- Metric Open End Wrenches
- Utility Knife
- Metric Hex Keys
- Pliers
- Hammer and Mallet
- Phillips and Slotted Screwdrivers
- Pry Bar
- Naphtha and Rags
- Hoist or forklift

UNPACKING

1. Refer to Fig 3. The Tire Changer is attached to a pallet and protected with a thin wood cover. At the bottom of the cover use a Pry Bar or Screwdriver to push the metal tabs all the way down, on all four sides.
2. Use a Pry Bar or Hammer to bend the metal tabs on all four sides of one panel.
3. Remove that one panel and rotate the rest of the cover off.
4. On the Helper container, push all the metal tabs all the way up on the top cover and remove that cover.

Fig 3

Once the covers are off, use a utility knife to carefully cut the plastic-wrap securing the contains of the container together. Remove the packaged items from the tire machine and set aside. Unbolt the tower from the base unit.

Fig 4

Set aside the loose parts for installation. This consists of Lubrication Brush, Tire Iron, Rubber Feet, Rim Protectors, Swing Arm Adjuster, Manual, Spare rim guards for Duckhead, and Parts Tray (Not shown are the tower, Air Blaster, Bead Breaker Blade and Arm, Bead Breaker Rubber Pad, and Swing Arm assembly:

Finding a Location

Keep the following in mind when deciding on a location:
Power source: The Tire Changer needs to be near an appropriate power source.
Air Source: The Tire Changer needs to have shop air provided.
Concrete Floor: The Tire Changer is best used on a flat concrete floor.
Clearance: The Tire Changer requires space around it. The location should for the Tire Changer should be in a low traffic area of your workplace. Refer to Fig 5 for Tire Changer dimensions.
Accessibility: Clearance space needs to be maintained around the machine to allow easy movement of tire/wheel assemble while performing tire operations.
Danger: When a tire is on the Tire Changer, especially during Inflation, you need to keep everyone far away from it; only the operator should be within 30 feet of the Tire Changer when it is in use.
No wet location: The Tire Changer has electrical power within the cabinet. Damage to machine and/or operator can occur if the Tire Changer is subjected to water. Designate an area for the Tire Changer that will stay dry,

⚠WARNING Do not use the Tire Changer if it is sitting in water. This could electrocute yourself or bystanders. Notify authorized personnel to have the equipment de-energized from its power source if found in this condition.

⚠WARNING The Tire Changer with electric motor cannot be used in explosive atmospheres.

MACHINE DIMENSIONS

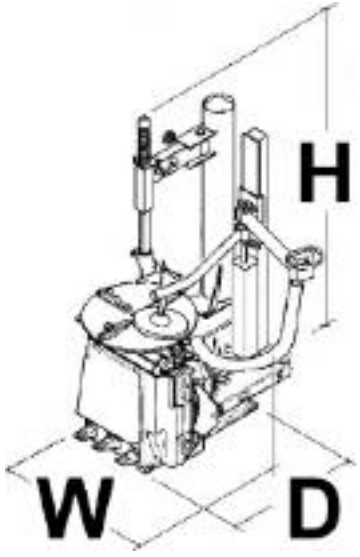


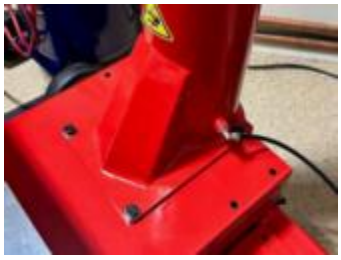
Fig 5

Dimensions: Height 42.3” Width 30.9” Depth 34.8”

ASSEMBLY & INSTALLATION

1. Unbolt the Tire Changer from the pallet.
2. Lift the Tire Changer from the pallet and position in the desired location.
3. Install the rubber feet onto the Tire Changer

4. Remove the bolts from the Tire Changer that secure the tower.
5. Lift the tower onto the Tire Changer and secure it with the four bolts removed in step 4.



6. Remove the bolt for the swing arm and install the swing arm to the tower with the removed bolt. Install the Swing Arm Set Knob into the tower.

7. Install the Air Blast Hose to the tower.

8. Bolt the Bead Breaker Tire Pad to the Tire Changer base.

9. Bolt the Bead Breaker Blade Arm to the Tire Changer base.

10. Bolt the Bead Breaker Ram to the Bead Breaker Arm. Turn the nut until it bottoms out on the threads.

11. Bolt the Bead Breaker Blade to the Bead Breaker Arm.

12. Be sure to add your chosen tire lubricant into the lubricant bucket and place it in its holder. The unit does not come with lubricant.

⚠CAUTION Only use Tire Lubricant that is approved by the Tire manufacturer for the Tire you are changing.

13. Hang the air inflator with air gauge onto its hook on the right side of the tower. Add plastic protective clamps to the turntable. Store the Tire Iron in its place. Place the Tool Tray in its location.

This completes the installation for our standard Tire Changer without the Pneumatic Bead Assist Tower.
The following is assembly with the Pneumatic Bead Assist Tower

Installing the Pneumatic Bead Assist Tower with Helper Arms

14. Unpack/unwrap the contents in Helper box and set aside contents for installation.

15. Lift and mount the Pneumatic Bead Assist Tower onto the Tire Changer base and secure with the four bolts. Loosely tighten the bolts and use the Allen screws to level the tower vertically. Once level, tighten the four bolts to secure the tower.

16. Remove the Allen Head Bolt from the pneumatic bead assist cylinder ram. You will need to pull the cylinder ram forward to slide the 3-hole sleeve onto the ram. Reinsert the Allen Bolt in the lower hole (not into the threads of the mount) to keep the ram and sleeve aligned for the next step.

17. Slide the Helper Disc Arm (lower) and Control Arm (upper) onto the sleeve. They will go to the middle and upper hole, which you will insert one of the Allen Head Bolts at each location and tighten all three bolts once arms are in place.

18. Install the Bead Assist Tool Arm onto the Control Arm and tighten the bolt. Do not over tighten since the arm needs to swing easily.

19. Install the Bead Roller arm onto the Helper Disc Arm. Install the Allen Bolt and washer on the end. Install the Stop Knob Screw as shown.

20. Connect the control air lines from the tower to the air lines on the Tire Changer. They are color coded for easy installation.

21. Replumb the Air Surge Tank line and the air supply line to the Pneumatic Assist Tower.

22. Install the Pneumatic Support Foot with the included bolt.

This completes the assembly of the Tire Changer with Pneumatic Bead Assist Tower.

ELECTRICAL CONNECTION

This Tire Changer is supplied with a 3-prong electrical plug rated at 110Vac and 20 amps. The supplying electrical receptacle must be on a dedicated circuit and meet all local, state, and National Electrical Codes for this type of equipment. This includes circuit protected by a GFCI receptacle, Arc Flash Breaker, and hard wired if required by code. The Tire Changer must be connected to safety earth ground.

If you must use an extension cord with this Tire Changer, only use one that is rated at or higher than the machine is rated for. Make sure it does not present a tripping hazard.

DANGER **All electrical work must be done by a licensed Electrician in accordance with all local, state, and National Electrical Codes (NEC).**

Air Connection

Connect the machine to the compressed air system by means of the air connection. This connection is located on the Regulator/Oiler on the back of the Tire Changer base. The Regulator is set to 90 PSI and should not be adjusted unless by a qualified service technician. The air supply needs to be able to supply 110 to 145 PSI at 15 CFM or greater.

WARNING ***Disconnect power and air pressure before performing troubleshooting or maintenance***. Follow all lockout procedures so the unit cannot be reenergized until you are done.

OPERATING

This part of the instruction manual will cover the basic operation and use of its controls. It is assumed that the operator knows the proper operation and use as well as having a thorough understanding of this instruction manual before using the machine. Failure to do so can result in damage to the machine and cause injury to yourself and/or someone else.

VERIFY OPERATION

(Refer to Figure 6)

To ensure safe operation, operate the machine several times without a tire. The turntable (Y) should turn clockwise when pedal (Z) is pressed down and counterclockwise when the pedal (Z) is pulled up.

Make sure that nothing is between the Bead Breaker Blade (R) and the Bead Breaker Pad (S). Press the pedal (U) to activate the Bead Breaker Blade (R). Release the pedal (U) to confirm the Bead Breaker Blade (R) returns to its original position.

Make sure that nothing is on the Turntable. Press the pedal (V) to extend the four Rim Clamps (G). Once fully extended, press the pedal (V) to return the Rim Clamps fully in. Press the pedal (V) to fully extend the Rim Clamps. Now lightly press the pedal (V) to control the Rim Clamp's inward speed.

Using a spare tire (make sure it is underinflated), connect the Air Inflator to the tire's valve. Verify the air pressure reading on the inflator. Using its trigger, inflate tire. Verify the tire's PSI matches the inflator's gauge.

Open the Air Surge Tank Valve to fill the Air Surge Tank. Protect your eyes and ears with approved safety equipment. Remove the Air Blast attachment from its storage hanger. Be sure to point the Air Nozzle toward a safe location and slowly move the Air Blast Nozzle Valve toward the Nozzle. Air should blast through the Nozzle.

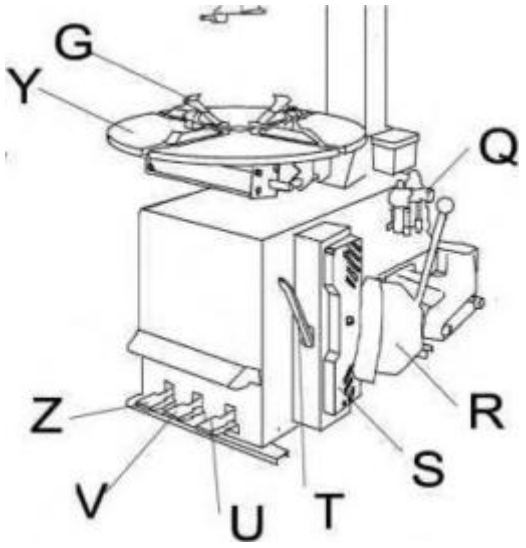


Fig 6

OPERATION

Do not use the machine until you have read and understood this operation manual and the warnings it provides before carrying out any operation.

Before Beginning

- Always make sure you and your personnel are fully trained on the operation of this Tire Changer and understand the proper technique for mounting and dismounting the tire.
- Practice on a set of old tires and rims to get familiar with this Tire Changer before changing a good set. This Tire Changer may operate differently than what you have used in the past.
- Keep all non-trained people clear of the Tire Changer while operating it.
- NEVER mount a damaged tire or rim.
- NEVER exceed the Tire Manufacture's stated maximum air pressure for their tire.
- Use an inflation safety cage if available.
- Be aware of your hand placement when operating this Tire Changer.
- Never wear loose clothing, hair, or jewelry that can become entangled with the rotating turntable.
- Never perform any service on an inflated tire. ALWAYS remove the tire's valve core and fully deflating the tire before beginning work on the tire assembly.
- Fully all OSHA requirements. This includes but not limited to all mandatory personal protective equipment.
- When using the Tire Changer, the operator must ANSI approved eye protection at all times
- Do not seat the tire bead using flammable substances. Only use non-flammable lubricant approved by the Tire Manufacture.
- Always keep the Tire Changer clean and maintained. Visually inspect the Tire Changer before each use. Immediately stop using Tire Machine and notify the manufacture if you find a defect prior to use or during operation.
- Read this manual! Become fully informed and thoroughly understand the operation of this Tire Machine before operating it.

BREAKING THE BEAD

WARNING ***Make sure that the tire is fully deflated!***

- Make sure that the tire is fully deflated.
- Put the tire against the Bead Breaker Pad on the right side of the Tire Changer (S) (Fig 6).
- Position the Bead Breaker Blade (R) (Fig 6) against the tire bead at distance of about a ¼" (1 cm) from the rim (Fig.8).
- Press down the pedal (U) (Fig 7) to activate the Bead Breaker. Release pedal (U) (Fig 7) when the blade has reached the end of its travel or when the bead is broken. Rotate the tire slightly and repeat the operation around the entire circumference of the rim and from both sides until the bead is completely separated from rim.

WARNING ***If there is a TPMS installed on the RIM, to prevent damage to the TPMS, only break the bead at 90 degrees from the TPMS.***

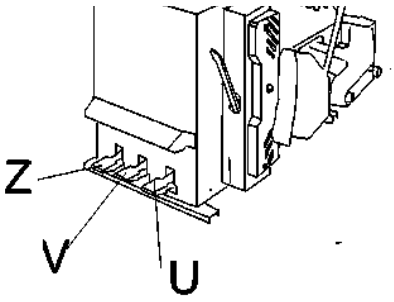


Fig.7

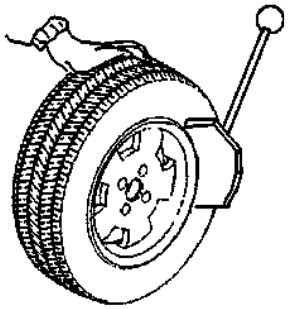


Fig.8

TIRE DEMOUNTING

(Refer to Figure 9 unless otherwise noted)

After unseating the tire bead on both sides of the rim, remove all wheel balancing weights. Use the correct lubricant as recommended by the Tire Manufacture to thoroughly lubricate the tire beads before placing the tire on the turntable.

> **WARNING** Always use approved Tire Lubricant. It makes changing tires easier and helps prevent damage to the tire and the rim. The key is to only use enough tire lubricant to reduce the friction between the tire bead and rim for ease of dismounting and mounting of the tire.

Typically, steel rims are clamped from the inside of the wheel (internally clamped). There are dimples on the clamps that might damage the inside rim if it is not made of steel. External clamping is used on Mag and Custom Wheels. The clamps move inward to clamp on the rim of the wheel.

To clamp externally, press down on pedal (V) to move the clamps all the way outward. Slightly press down on pedal (V) to slowly move the clamps inward. Slightly press the pedal (V) further when the clamps have moved within 1" of the rim's diameter to stop the clamps. Set the wheel assembly onto the turntable putting the rim under the furthest two clamps. Move the Bead Assist Tool (P) over to the center of the wheel assembly. Install the Restraint Cone (X) onto the Bead Assist Tool (P). Lower the Bead Assist Tool (P) until the Restraint Cone (X) is centered in the wheel's hub and pressing down with enough force to allow the outer clamps to catch the outer rim edges. Double press down on pedal (V) and release to fully engage all the clamps with the outer wheel rim. Before proceeding, make sure the wheel is firmly held in place.

To clamp internally press the pedal (V) down until the clamps move to the center of the turntable. Place the wheel assemble on the turntable. Press the pedal (V) down and release to move the clamps outward until they engage with the wheel. Make sure the wheel is firmly held in place.

Using the Bead Roller (O), position it on the tire with the end of the flared roller butting up to the rim. Depress the tire with the Bead Roller and rotate the turntable as you place Tire Lube under the rim. This will ease the removal process. Move the Bead Roller (O) out of the way. If equipped with a TPMS sensor, take care not to damage it by pressing down too much with the Bead Roller (O).

> Note: If the wheel is equipped with a TPMS sensor, move the valve stem slightly counterclockwise in relationship to the Mounting Tool (I).

> Note: If the wheel is equipped with an inner tube, move the valve clockwise of the Mounting Tool (I) about 4" in order to avoid damaging the inner tube.

Lower the mounting bar (L) using the Mount/Demount Shaft Cap (K) until the Mounting Tool (I) rests against the edge of the rim. Lock it using the lever (H). The mounting tool is locked in a vertical direction. Locking the mounting bar will raise the Mounting Tool by 1/16" from the rim. Using the Swing Arm Adjust Knob (K), turn it until the screw touches the Swing Arm (M). Now turn it another 1/4 to 1/2 turn until it moves about 1/16" from the rim.

Use the Bead Roller (O) to push the tire down at the Mounting Tool (I). Using the Tire Iron (T), insert it between the bead and the front section of the Mounting Tool (I), lift the tire bead over the Mounting Tool (I). If having trouble inserting the Tire Iron (T) position the Bead Assist tool (P) 180 degrees from the Mounting Tool (I) and lower the tire into the drop-center with it. Once the tire bead is up over the Mounting Tool's edge (I), remove the Bead Assist and position it out of your way. Press the rotational pedal (Z) down to rotate the turn table clockwise…removing the top bead of the tire. Repeat this process for the lower tire bead. You will not need the Bead Roller (O) or Bead Assist Tool (P), however the Helper Disc (W) can be used to help lift the tire up so you can get the Tire Iron (T) under it.

If you are working on the same size rims, it may not be necessary to unlock the Mounting Bar (L). Just swing the arm out of the way. But you might have to release the Mounting Tool (I) to gain clearance to remove the tire. Do that by using the Mount/Demount Shaft Lock (H).

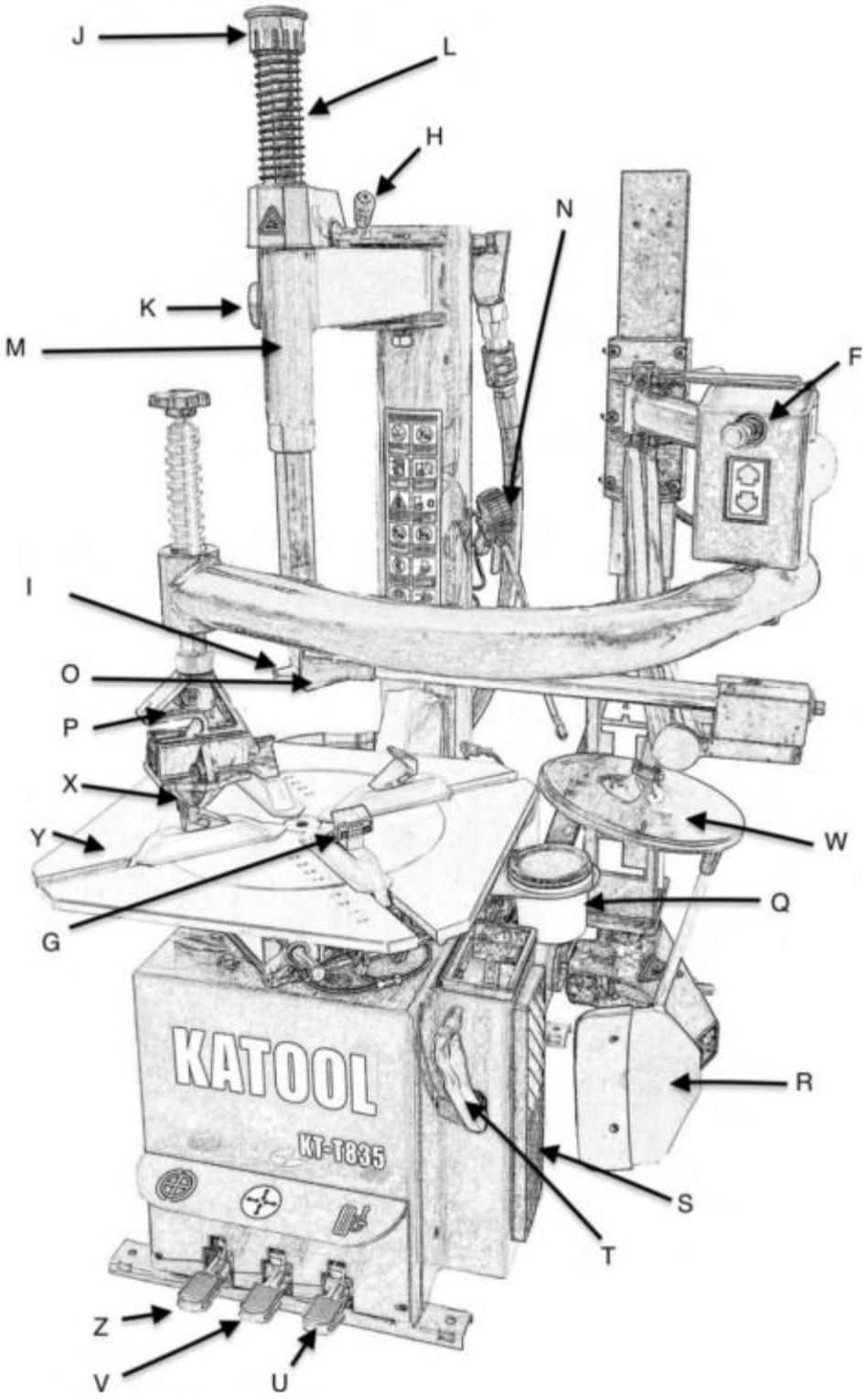


Fig 9

TIRE MOUNTING

WARNING During the mounting operation, keep your hands clear of the tire and rim area. Severe damage to your hand can occur if trapped between the rim edge and tire bead.

WARNING Never mount tire on rim with different sized diameter. Always check before mounting.

WARNING Always inspect the tire before mounting it. Never mount a damaged tire or use a damaged wheel.

WARNING Lubricate the tire beads, drop-center, and rim with Tire Lubricate.

Note: If the wheel is equipped with a TPMS sensor, move the valve stem 180 Degrees in relationship with the Mounting Tool (I).

Pay special attention to the inside of the bead. Place the tire over the rim and see if you can push the lower bead over the rim. If not, swing the Swing Arm (M) into place and move the tire so the lower bead passes over the rear of the Mounting Tool (I) and under the front of the Mounting Tool (I) Refer to Fig 10. Press down rotational pedal (Z) to turn the turntable clockwise. Guide the tire onto the rim. Repeat this procedure for the top bead. On low profile and run flat tires, use the Pneumatic Bead Assist Tools. Place the Bead Roller right behind the Mounting Tool (I) and the Bead Assist Tool (P) next to it pressing down the tire into the drop-center. Press the rotational pedal (Z) down, the turntable will rotate clockwise. Let the Bead Assist Tool (P) move with the tire keeping it in the drop-center. On some low-profile tires, using drop-center clamps greatly assist in mounting the top bead.

Note: If your wheel requires an inner tube, insert it after you install the bottom bead, but before the top bead is installed.

Once you have mounted the tire, release the clamps by pressing down on the pedal (V).

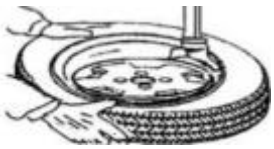


Fig 10

INFLATING

⚠ DANGER *Exploding tires can cause serious injury or death!*

- **Exploding tire can cause serious injury or death.**
- **Check to make sure the tire and rim are of the same diameter.**
- **Make sure both the tire and rim are not damaged before inflating.**
- **When seating the bead, use the provided inflator. It is limited to 51 PSI, but in any case, never exceed the Tire Manufacture's stated maximum air pressure.**
- **Keep your hands and body as far away as possible while seating the bead and inflating the tire.**

⚠ If a Safety Cage is available, use it. If seating the bead requires 60 PSI or greater….ALWAY use a Safety Cage.

INFLATING TIRE WITH AIRELINE GAUGE

Install air valve into valve stem if removed. Connect the airline gauge fitting to the tire valve (Fig 11). Press the airline gauge trigger to inflate the tire with brief jets of air. Do not exceed 40 PSI as you attempt to seat the beads. NEVER exceed the Tire Manufacturer's stated maximum air pressure. You will hear two pops as the bottom and top bead seat. Once the tire beads seat, inflate the tire to the proper air pressure as listed by the vehicle's manufacturer.

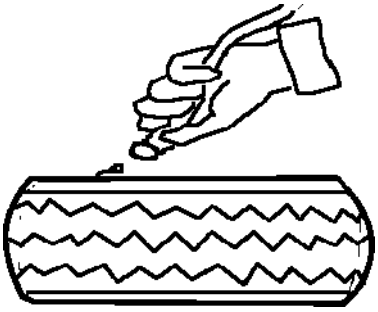


Fig 11

MAINTENANCE

GENERAL WARNINGS
Only authorized service personnel should perform maintenance on this Tire Changer.
To extend the life of this Tire Changer and keeping it running reliably, routine maintenance as listed in this manual must be performed.

WARNING ***Disconnect power and air pressure before performing troubleshooting or maintenance***. Follow all lockout procedures so the unit cannot be reenergized until you are done.

Be sure that all air pressure is removed from the Tire Changer. Operate the Bead Blaster to ensure there is no air storage in the surge tank. Operate the Bead Breaker to blead off any air in the rest of the system.

ROUTINE MAINTENANCE

Weekly:

- Clean the turntable and outside of the Tire Changer once a week with approved degreasing solvent.
- Apply general purpose or white lithium grease to the Turntable Clamp Sliding glides.
- Apply general purpose or white lithium grease to the Pneumatic Bead Assist Tower's slide.

Monthly:

Check the oil level in the air lubricator. If necessary, fill up through the Fill Plug (Fig 12). Only use SAE 30 oil.

Check that a drop of oil is injected into the reservoir every 3-4 times the pedal U is pressed down. If not, regulate using the Oil Flow Adjustment Knob (Fig.12).

Fig 12

Clamp Bolts:

After the initial 20 days of use, retighten the Turntable Clamp Bolts and Turntable Slide Bolts (Fig 15a & 15b). Check periodically after that.

Fig 15a

Fig 15B

If experiencing Turntable loss of power, check the drive belt. Remove the 5 Allen Button Bolts from the Side Body Panel. Tighten the Drive Belt by adjusting the Drive Belt Adjustment Nuts on Motor Support Plate (Fig 16).

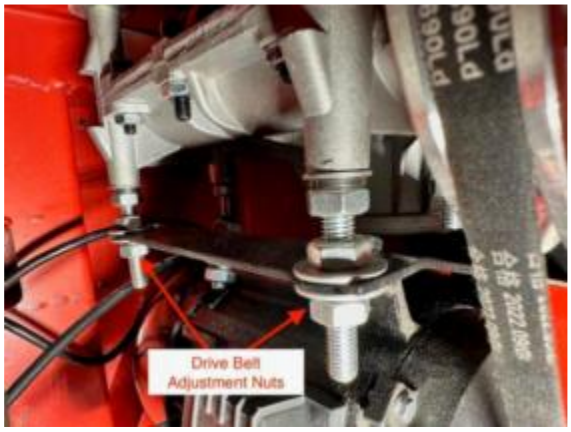


Fig 16

Adjusting Locking/Height clearance of the Mount/Demount Tool:

If the Mount/Demount Shaft Lock needs adjustment and/or the Mount/Demount Tool does not raise from the wheel rim by 1/16” when locked the cam adjustment is necessary. Remove the cover from the Swing Arm by removing the Allen Head Bolt (Fig 17a) and slide the cover up and out of the way. Loosen the Lock Nut and use the Adjusting Set Screw to set the proper Mount/Demount Tool height and locking tightness (Fig 17b). Lock the Lock Nut down after adjustment.

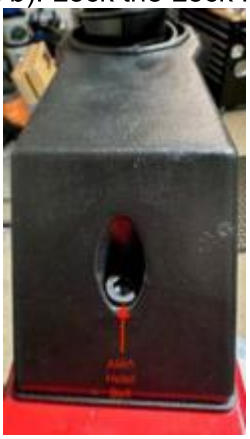


Fig 17a

Fig 17b

Air Silencers:

To maintain the valve system, periodic cleaning of the valve's silencers is necessary. Open the left side of the cabinet by removing the 5 Allen Button Head bolts and set the cover aside. Locate the air silencers on the valve assembly and remove by unscrewing them (Fig 18). Using compressed air, thoroughly clean the silencers. If damaged, replace with the same part. Screw air silencers on after cleaning.

Fig 18

TROUBLE SHOOTING

Turntable rotates only in one direction		
Forward/Reverse Switch is defective		Replace Switch
Turntable does not rotate		
No electrical power		Restore power to machine
Belt broken		Replace belt
Check wiring, forward/reverse switch, and motor connectors.		Repair or replace faulty component
Motor defective		Replace Motor
Turntable locks while removing /mounting tires		
Belt loose		Adjust belt tension
Clamps slow to open/close		
Silencer clogged		Clean or replace silencer
Turntable does not lock the wheel rim correctly		
Clamps worn		Replace clamps
Turntable cylinder(s)defective		Replace cylinder gaskets
The tool touches the rim during the tire removing/mounting operations		
Locking plate incorrectly adjusted or defective		Adjust or replace locking plate
Bead breaker pedal and clamp opening/closing pedal lock out of position		
Return spring broken		Replace spring
Bead breaking operation difficult		
Silencer clogged		Clean or replace silencer
Bead breaker cylinder gaskets damaged		Replace gaskets

ELECTRIC DIAGRAM

(115/230V-1PH)