K&L Supply Co.
Premium Tire Changer

INSTRUCTION MANUAL

READ THIS ENTIRE MANUAL
BEFORE OPERATION BEGINS

RECORD THE FOLLOWING INFORMATION WHICH IS LOCATED ON THE SERIAL NUMBER DATA PLATE.

Serial Number: _____ **Model :** _____

INSTRUCTIONS: Safety Label Meanings

IMPORTANT!! SAVE THESE INSTRUCTIONS

Overinflated tires or tires mounted on the wrong sized rims can explode producing hazardous flying debris.
- **Read and understand the operation instructions before using this tire changer.**
- **Never mount tire on rim with different sized diameter.**
- **Never exceed maximum inflation pressure listed on tire sidewall.**
- **Always use safety restraint arm to hold wheel in place while inflating.**
- **Always use attached air hose to inflate tires.**

Exploding tires can cause death or serious injury.

Risk of electrical shock.
- **Do not operate equipment with a damaged power cord or if the equipment has been dropped or damaged, until it has been examined by a qualified service person.**
- **If an extension cord is necessary, a cord with a current rating equal to or greater than that of the equipment should be used. Cords rated for less current than the equipment can overheat.**
- **Unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.**
- **Do not expose the equipment to rain. Do not use on wet surfaces.**
- **Plug unit into correct power supply.**
- **Do not remove or bypass grounding pin.**

Contact with high voltages can cause death or serious injury.

Risk of electrical shock. High voltages are present within the unit.
- **There are no user serviceable items within the unit.**
- **Service on the unit must be performed by qualified personnel.**
- **Do not open any part of the unit other than noted and allowed areas.**
- **Turn power switch off and unplug the unit before servicing.**

Contact with high voltages can cause death or serious injury.

Risk of crushing.
- **Become familiar with all controls before proceeding with operation.**
- **Stand away from the bead breaker arm when in operation.**
- **Apply air to breaker in bursts if necessary to control arm depth.**
- **Don't allow to approach extraneous people to the service.**

Contact with moving parts could cause injury.

Risk of pinching or crushing hands and fingers.
- **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 use unapproved accessories**
- **Do not bypass any safety features.**
- **Use proper tire lubricant to prevent tire binding.**

Contact with moving parts could cause injury.

Risk of eye injury. Debris, dirt, and fluids may drop from wheels.
- **Remove any debris from tire tread and wheel surfaces.**
- **Remove excess tire lubricant before inflating.**
- **Knock off any loose debris. Clean surfaces as needed to avoid any materials from falling.**
- **Wear approved safety glasses during mount and demount procedures.**

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

Risk of injury. Tools may break or slip if improperly used or maintained.
- **Use the correct tool for the task.**
- **Frequently inspect, clean, and lubricate (if recommended) all tools.**
- **Follow recommended procedures when performing wheel services.**

Tools that break or slip can cause injury.

⚠DANGER

Tires and Rims that are not the same diameter are mismatched.

- **NEVER attempt to mount or inflate any tire and rim that are mismatched.**
- **ALWAYS check to see that tire and rim diameters are the same.**

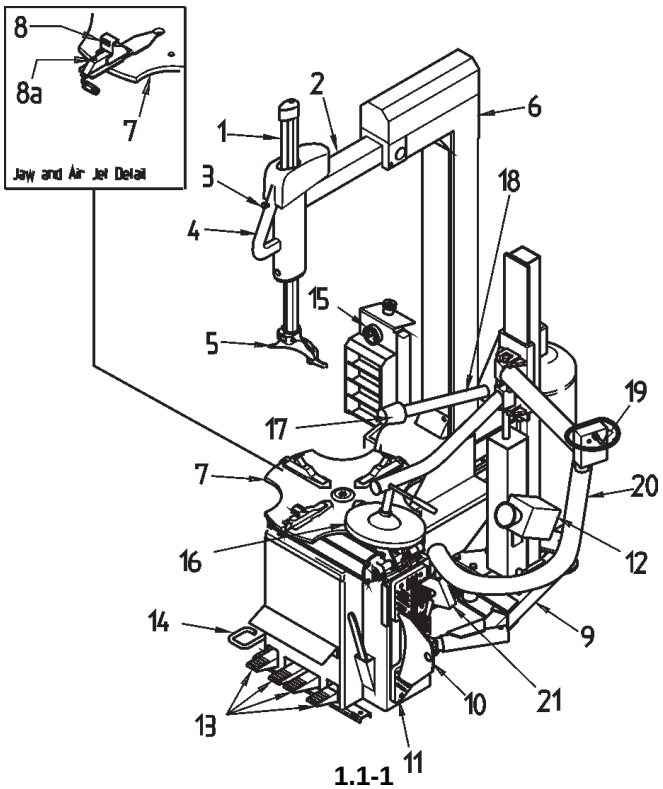
A mismatched tire and rim will explode causing death or serious personal injury

⚠WARNING

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 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, remove them and use only an approved safety inflation cage designed for this purpose.**
- **Lock turntable Clamp on inside of rim before attempting to inflate tire.**
- **Use approved tire bead lubricant before removing or installing tire on rim.**
- **ALWAYS position the "Safety Restraint Arm" over the wheel to hold it to the turntable while inflating if so equipped.**
- **If a tire explodes on this tire changer, STOP using it until the "Safety Restraint Arm" has been replaced, which must be done even if no damage is seen.**
- **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.**
- **Tire Changer must be anchored to concrete floor if equipped with a "Safety Restraint Arm"**

Exploding Tires can cause serious injury.



1.1-1

UL Certified

1.0 Introduction

Congratulations on purchasing the **K&L PREMIUM** electric/air tire changer.
This tire changer is designed for ease of operation, safe handling of rims, reliability and speed.
This combination of features means more profit and added versatility for your shop, enabling you to work with aluminium or magnesium alloy wheels without damaging customer's rims.
With a minimum of maintenance and care your 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.

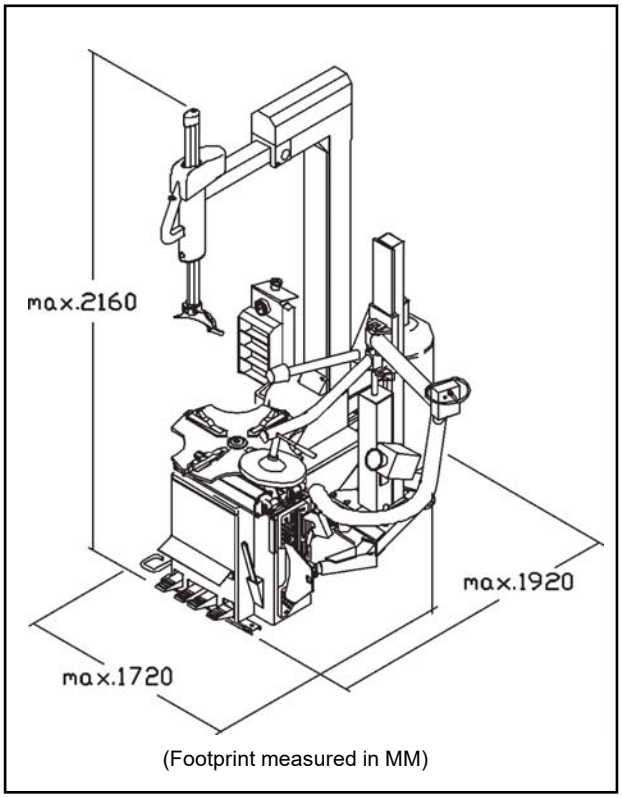
STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE. READ THIS MANUAL THOROUGHLY BEFORE USING THE MACHINE.

1.1 Nomenclature

Before installing and using the electric/air tire changer it is suggested that you become familiar with the nomenclature of the machine's components (Fig. 1.1-1).

1	Vertical slide
2	Mounting arm, horizontally displaceable
3	Lever with push-button
4	Handle
5	Mount/demount tool
6	Tower or column
7	Turntable
8	Mounting Jaws
8a	Air jets
9	Bead breaker arm
10	Bead breaker blade
11	Bead breaker pads
12	Lube Pail
13	Foot pedal controls
14	Bead seater/inflator pedal
15	Inflation gauge
16	Bottom bead roller
17	Top bead roller
18	Bead assist arm
19	Rise/fall control lever
20	Bead depressor arm
21	Bead depressor tool

ALL ELECTRICAL CONNECTIONS SHALL BE PERFORMED BY A LICENCED TECHNICIAN. ALL SERVICE MUST BE PERFORMED BY AN AUTHORIZED SERVICE TECHNICIAN.



(Footprint measured in MM)

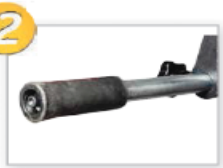
1.2 Specifications

Electric-air tire changer for car, light commercial vehicle and motorcycle tires designed for one-piece rims.

Weight	lbs 740 (335 kg)
Air pressure required	psi 110-170 (8-12 bar)
Bead breaker force	lbs 3300 (kN 15)
Motor 115 VAC	kW 0.75 (Hp 1)
Max. torque	ftxlb 740 (Nm 1000)
Max. wheel diameter	47" (mm 1200)
Max. wheel width	17"
Rim diam. outside locking	12"-26"
Rim diam. inside locking	14"-28"
Motorcycle wheels with adapters	10"-25"

1 ***Bead Breaker with Pad***
5,500 lbs. of pressure easily breaks tough tire beads from the rim

Proprietary Bead Breaker pad clears rotors and pulleys



2 ***Roller Arm***
Mount tires without the bead head to eliminate wheel damage

Allows for easy tire lubrication

Assists with mounting and demounting

3 ***Pneumatic Tilting Bead Head Tower***
Adjustable and easily locks/unlocks with the push of a button

Ensures accurate bead head placement every time

Tilts out of the way to easily mount and demount tires

4 ***Pressing Foot***
Easily flexes stiff sidewalls into drop center position

Makes mounting and demounting tires a breeze

Presses rim to ensure tight clamping

5 ***Electric Turntable w/Adjustable Jaws***
Self-centering clamping jaws 2 sets of jaws for automotive, motorcycle, ATV/UTV tires

Turn Table provides more torque at lower RPMs for precise control

Plastic covers prevent rim damage

6 ***Lower Bead Lifting Disk***
Used to unseat stubborn lower beads

Elevates tires for tool placement

1.5 General Cautions

A. DURING USE AND MAINTENANCE OF THE MACHINE IT IS MANDATORY TO COMPLY WITH ALL LAWS AND REGULATIONS FOR ACCIDENT PREVENTION.
B. THE ELECTRICAL POWER SOURCE MUST HAVE A GROUND CABLE AND THE GROUND CABLE OF THE MACHINE (YELLOW WITH GREEN) MUST BE CONNECTED TO THE GROUND CABLE OF THE POWER SOURCE.
C. BEFORE PERFORMING ANY MAINTENANCE OR REPAIRS THE MACHINE MUST BE DISCONNECTED FROM THE AIR AND ELECTRIC SUPPLY.
D. NEVER WEAR TIES, CHAINS OR OTHER LOOSE ARTICLES WHEN USING, MAINTAINING OR REPAIRING THE MACHINE. LONG HAIR IS ALSO DANGEROUS AND SHOULD BE KEPT UNDER A HAT.
THE USER MUST WEAR PROPER SAFETY ATTIRE I.E.: GLOVES, SAFETY SHOES AND GLASSES.
E. MAINTAIN ALL ELECTRIC CORDS IN GOOD REPAIR.
F. KEEP SAFETY FEATURES IN PLACE AND IN WORKING ORDER.
G. KEEP WORKING AREA CLEAN. CLUTTERED AREAS INVITE ACCIDENTS.
H. AVOID DANGEROUS ENVIRONMENTS. DON'T USE POWER TOOLS OR ELECTRICAL EQUIPMENT IN DAMP OR WET LOCATIONS, OR EXPOSE THEM TO RAIN.
J. KEEP THE WORK AREA WELL LIGHTED.

1.5.1 Precautions

THE USE OF THIS DEVICE IS ALLOWED ONLY TO PERSONNEL DULY TRAINED BY AN AUTHORIZED K&L SUPPLY CO. DEALER.

ANY MISUSE OR MODIFICATION OF THIS DEVICE OR OF ITS PARTS OR COMPONENTS NOT PREVIOUSLY AUTHORIZED BY THE MANUFACTURER WAIVE THE MANUFACTURER FROM ANY DAMAGE CONSEQUENT OR RELATED TO THE ABOVE MENTIONED MISUSES.

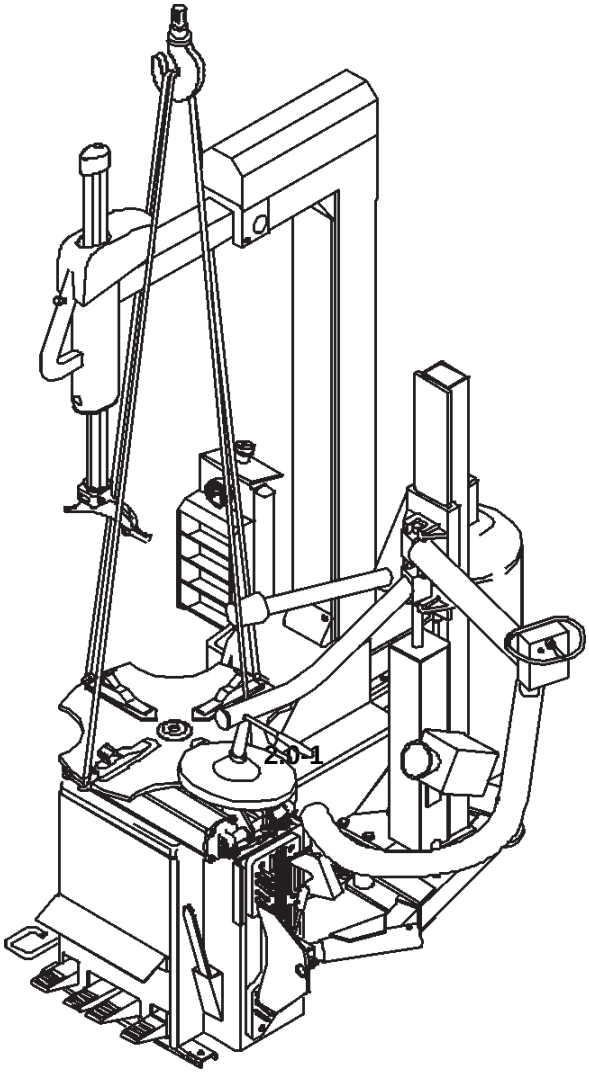
REMOVING OR BYPASSING SAFETY DEVICES OR WARNING LABELS OF THE MACHINE IS A VIOLATION OF THE SAFETY REGULATIONS.

THE USE OF THIS DEVICE IS ALLOWED ONLY IN LOCATIONS WITH NO EXPLOSION OR FIRE HAZARD.

THIS EQUIPMENT IS DESIGNED TO RECEIVE ORIGINAL SPARE PARTS AND ACCESSORIES ONLY.

THE INSTALLATION SHALL BE CARRIED OUT ONLY BY QUALIFIED PERSONNEL AND WITHIN THE SCOPE OF THE INSTRUCTIONS PROVIDED IN THIS MANUAL.

IN CASE A DEFECTIVE FUNCTIONING CONDITION IS DETECTED, STOP USING THE MACHINE AND CALL THE AUTHORIZED K&L SUPPLY DISTRIBUTOR FOR ASSISTANCE.



2.0 Installation

Install the machine in a covered and dry place. Operation temperature is +41/+122 °F (+5/50° C). The machine can work below 32 °F (0° C), but some minor modifications are required: contact your ***K&L SUPPLY CO.*** distributor for detailed information.

A. Remove the screws that attach the machine to the pallet.

B. Lift the machine with an appropriate lifting tool (crane, fork lift) and a belt of sufficient capacity (3500 N).
For this operation, it is required to be helped by a second person. Always mind the center of gravity of the machine (Fig 2.0-1).
BE CAREFUL NOT TO DAMAGE THE AIR HOSES.

C. When first setting the machine into operation, check hose connections for leakage.

D. The machine must be secured to the floor through the holes provided in the cabinet.

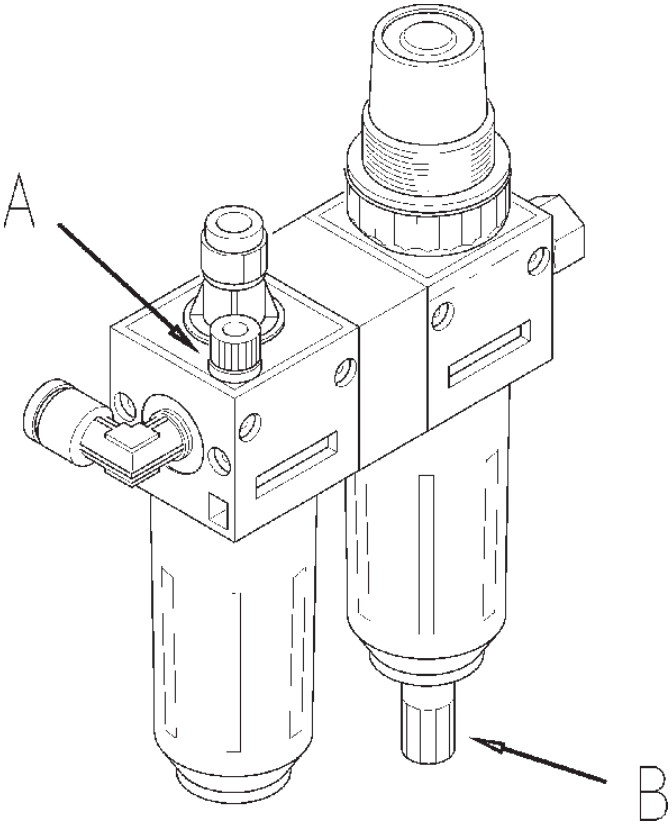
2.1 Electrical Installation

WARNING
ALL ELECTRICAL CONNECTIONS SHALL BE PERFORMED BY A LICENCED TECHNICIAN. ALL SERVICE MUST BE PERFORMED BY AN AUTHORIZED SERVICE TECHNICIAN.

FOR ELECTRIC MOTOR TYPE ONLY:
Check that the electrical specifications of the power source are the same of the machine. The machine uses 0.75 kW. Electric specifications are clearly marked on a label at the end of the electric cord.
If the plug is provided disregard this paragraph.
Connect the electric cord of the machine with an approved plug. The ground cable (green and yellow) must be properly connected.

WARNING!
FAILURE TO PROVIDE PROPER ELECTRICAL SUPPLY AND GROUNDING WILL CREATE A SHOCK HAZARD TO THE OPERATOR.

NOTE: AIR MOTOR POWERED MACHINE DOESN'T NEED ELECTRICAL INSTALLATION.



2.2 Air Installation

WARNING
THE AIR INSTALLATION MUST BE MADE ONLY BY LICENSED PERSONNEL.

WARNING
EXCESSIVE AIR PRESSURE CAN SERIOUSLY INJURE PERSONNEL AND DAMAGE THE MACHINE.

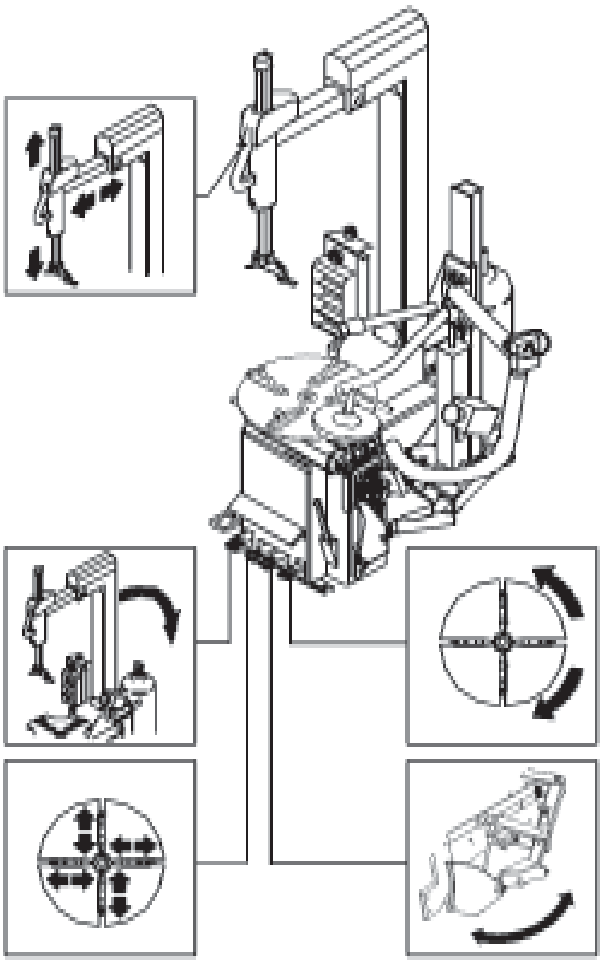
Ensure that the line pressure is within the limits required by the machine. If the air pressure exceeds 12 bar (170 psi) it is mandatory to install a pressure regulator before the air inlet of the machine
It is suggested that the air supply be equipped with a water separator and air lubricator.

After ensuring all the above proceed as follows:
A.
FOR ELECTRIC MOTOR POWERED VERSION ONLY:
Connect the machine to the air supply with a rubber hose equipped with 1/4”NPT treaded junction.

FOR AIR MOTOR POWERED VERSION ONLY:
Connect the machine to the air supply with a rubber hose equipped with 3/8”NPT treaded junction.

WARNING
BEFORE CONNECTING THE MACHINE TO THE AIR SUPPLY BE SURE ALL PERSONNEL ARE CLEAR OF THE MACHINE AND THAT NOTHING IS LEFT ON THE TURNTABLE AREA (TOOLS)

B. Should you install any optional accessories, please refer to the relevant instructions.



3.0-1

3.0 Controls

Before operating the machine, ensure that you have well understood the operation and function of all the controls (Fig.3.0-1).

A. Press down and release, WITH LEFT FOOT, the first pedal from the left: the column tilts backwards.
Do it again: the column tilts forward.

WARNING:DANGER OF BODY CRUSHING

TO MINIMIZE THE RISK OF SCRATCHING ALLOY RIMS, THESE SHOULD BE CLAMPED FROM THE OUTSIDE.

B. Press down and release, WITH LEFT FOOT, the second pedal from the left: the clamps of the turntable will retract. Do it again: the clamps will expand. If you press the pedal prior to the end of the stroke and release, the clamps may be stopped in any position.

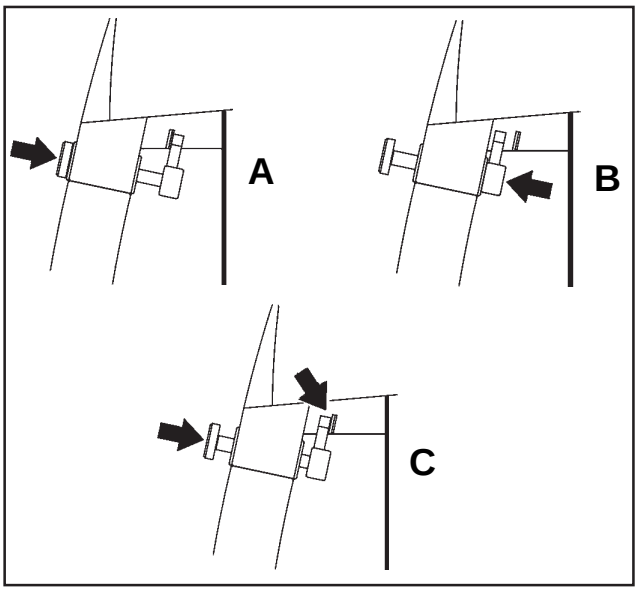
C. Press down and hold, WITH SECOND FOOT, the first pedal from the right: the turntable turns clockwise.

1. 3/4 down approximately, the turntable rotates at the minimum speed (8 rpm approx.). The torque is maximum in this condition.

2. All the way down the turntable rotates at the maximum speed (14 rpm approx.).
Lift the pedal and the turntable turns counter-clockwise.

D. Open the bead breaker arm. Press down and hold, WITH RIGHT FOOT, the second pedal from the right: by doing this you operate the bead breaker blade and the arm will move towards the machine. Release the pedal: the bead breaker blade will retract.

WARNING: WATCH YOUR FINGERS AND LEGS!



3.0-2

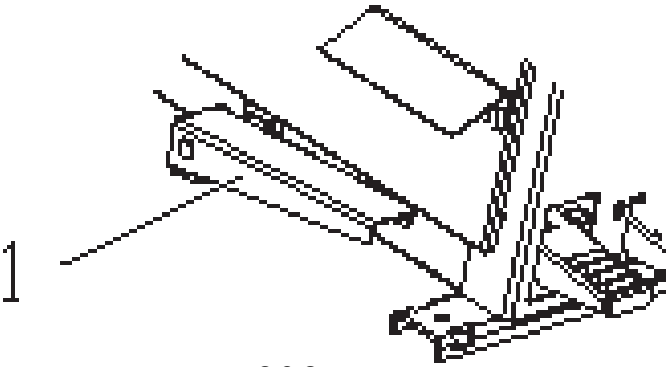
E. The push button on the handle allows to release the arms and position the mount/demount tool in the correct position.

1. To unlock and let the slide with the tool go up: push the button firmly with the forefinger, in the direction of the arrow (**A** Fig. 3.0-2).

2. To unlock and let the slide with the tool go down: push the button with the thumb in the direction of the arrow, until the resistance increases (**B** Fig. 3.0-2).

3. To lock: push the button firmly with the thumb (C Fig. 3.0-2).

ATTENTION! DANGER OF HAND CRUSHING



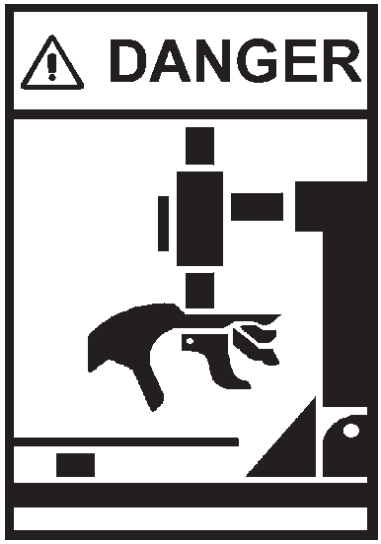
3.0-3

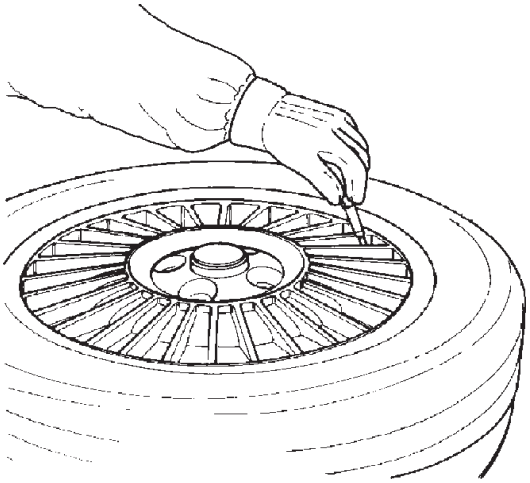
F. Press bead seater/inflator pedal on left side of the machine half way down (**1**, Fig. 3.0-3): air will come from inflation hose end only.

ATTENTION!
WHEN OPERATING THE BEAD SEATER IT IS MANDATORY TO WEAR SAFETY GLASSES TO PROTECT EYES.

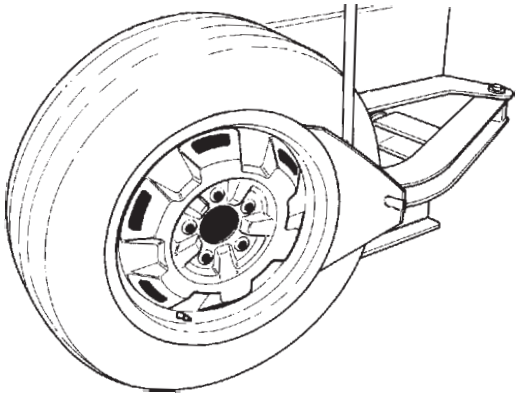
DANGER OF TIRE EXPLOSION

G. Press bead-seater pedal down swiftly to get air blast from the inflator jets. Air simultaneously comes out of inflator hose.





4.1-1



4.1-3

4.0 Mounting And Demounting Precautions

IMPORTANT!
BEFORE MOUNTING A TIRE ON A RIM ENSURE THE FOLLOWING RULES ARE OBSERVED:

A. THE RIM MUST BE CLEAN AND IN GOOD CONDITION: IF NECESSARY CLEAN AND PAINT AFTER REMOVING ALL WHEEL-WEIGHTS INCLUDING 'TAPE WEIGHTS' INSIDE THE RIM.

B. THE TIRE MUST BE CLEAN AND DRY, WITH NO DAMAGE TO THE BEAD AND THE CASING.

C. REPLACE THE RUBBER VALVE STEM WITH A NEW ONE OR REPLACE THE 'O' RING IF THE VALVE STEM IS MADE OF METAL.

D. IF THE TIRE REQUIRES A TUBE, MAKE SURE THE TUBE IS DRY AND IN GOOD CONDITION.

E. LUBRICATION IS NECESSARY FOR CORRECT MOUNTING OF THE TIRE AND PROPER CENTERING. USE ONLY AN APPROVED LUBRICANT FOR TIRES.

F. MAKE SURE THE TIRE IS THE CORRECT SIZE FOR THE RIM.

4.1 Demounting Tubeless Tires

A. Remove all wheel-weights from the rim.
Remove the valve stem or core and deflate the tire (Fig. 4.1-1).

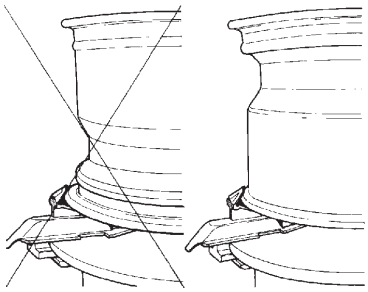
NOTE: If the tire is over 13"(340 mm) wide, first set the bead breaker in the "Wide" position as follow:

1) Two pin position bead breaker for wider wheels

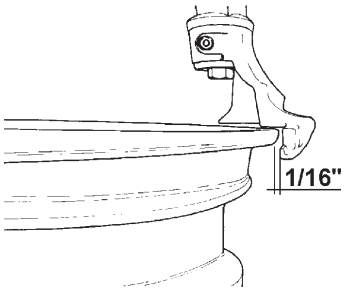
B. Break both beads.
Pay extra attention during this operation as it easy to mistakenly keep your foot on the bead breaker pedal too long. This could result in immediate bead damage (Fig. 4.1-3)

WARNING

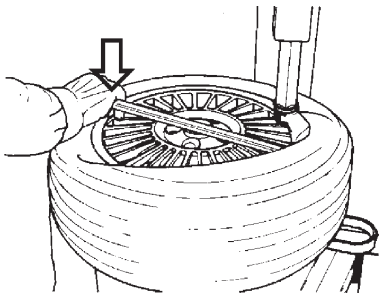
ON CHEVROLET CORVETTE WHEELS WITH THE OPTIONAL LOW PRESSURE SENSOR INSTALLED, BREAK THE BEAD AT 90 DEGREES OFFSET FROM THE VALVE STEM. DAMAGE TO THE WHEEL WILL



4.1-4



4.1-5



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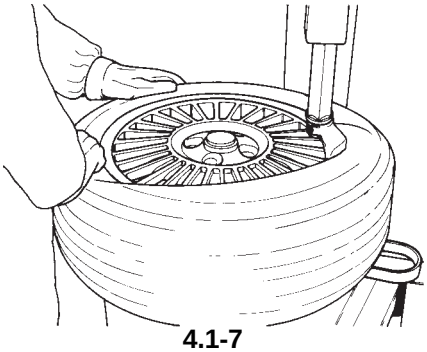
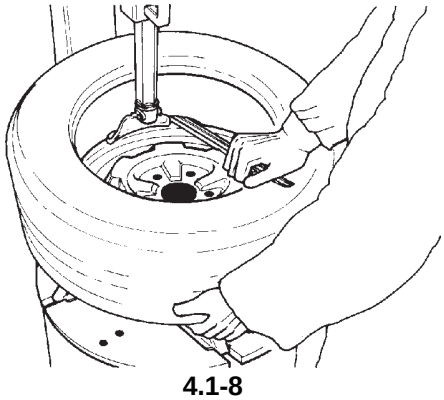


4.1-7



4.1-8

RESULT IF THE BEAD IS BROKEN AT ANY OTHER POINT ON THE RIM.

C. Set the rim clamps to the proper position: retract clamps to clamp the wheel from the inside and expand clamps to clamp from the outside.
Clamping the wheels from the outside set the clamps at diameter nearly equal to the rim diameter, before placing the wheel on the clamps. This will avoid the risk of pinching the tire.

WARNING

TO MINIMIZE THE RISK OF SCRATCHING ALLOY RIMS, THESE SHOULD BE CLAMPED FROM THE OUTSIDE

D. Liberally lubricate both beads.
Place the wheel **WITH DROP CENTER UP** (Fig. 4.1-4) on the turntable, and clamp in position. Hold the tire and wheel down while clamping.

E. Position the mount/demount head in contact with the rim edge and lock it into place: the tool automatically moves away from the rim edge vertically. Turn the adjustment knob until the mount/demount head clears from the rim flange about 1/16" (2 mm): this is necessary to avoid rim damage (Fig. 4.1-5).

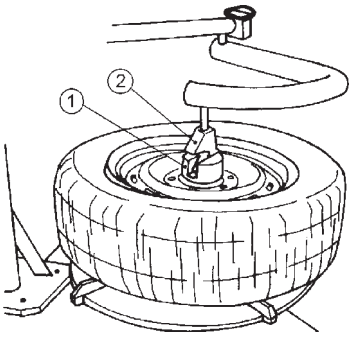
NOTE:
The plastic insert inside the mount/demount tool must be periodically replaced. Every machine is equipped with several plastic inserts (inside standard equipment box). If desired, a steel roller also included in the standard equipment box may replace the plastic insert. Follow the instructions included with the replacement parts.

NOTE:
Once the mount/demount head is positioned properly, matching wheels may be changed without having to reset the head.

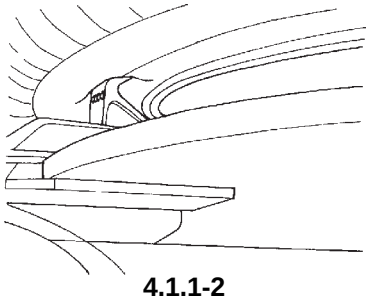
F. Insert the bead-lifting tool under the bead and over the support of the mount/demount tool. Lift the bead onto the mounting finger. To facilitate this operation, press with left hand on the bead in position diametrically opposite to that of the tool. If desired, the bead-lifting tool can be removed after lifting the bead onto the finger (Fig. 4.1-6).

G. Rotate the turntable clockwise and at the same time push down on the tire sidewall to move the bead into the drop-center of the rim (Fig. 4.1-7).

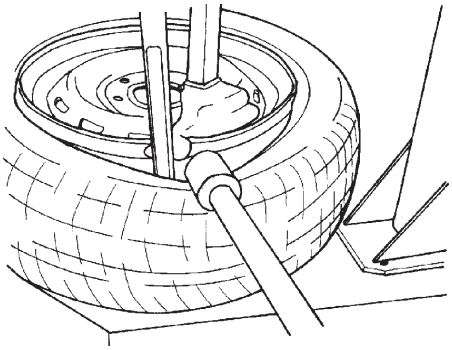
H. Repeat the process for removing the lower bead. With left hand, lift the bead in position diametrically opposite the tool to keep it in the drop center (Fig. 4.1-8). Move the swing arm aside and remove the tire.



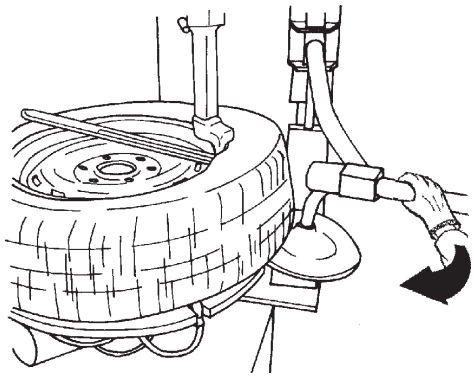
4.1.1-1



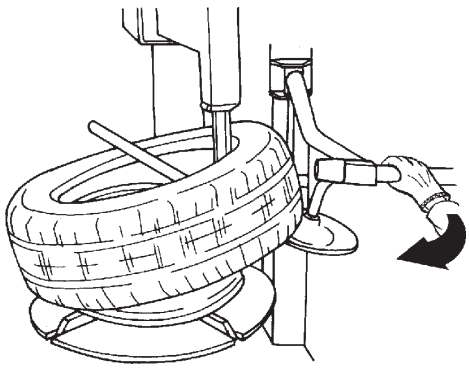
4.1.1-2



4.1.1-3



4.1.1-4



4.1.1-5

4.1.1 Use the bead presser as a demounting help device.

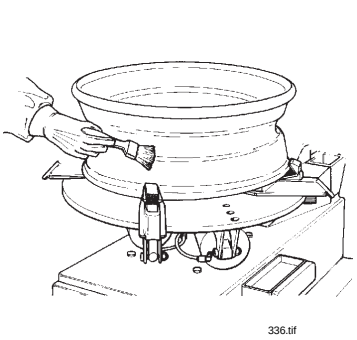
A. In order to make the locking of hard or lowered tires easier, the operator can use the rim pusher provided with the bead pusher. Apply the rim pusher (Item 1, Fig.4.1.1-1) on the bead pusher tool (Item 2), position it at the centre of the rim (Fig.4.1.1-1) and low the rim as far as the clamps can lock the rim (Fig.4.1.1-2).

B. Position the roller approx. 2 cm (3/4") from the rim edge. Press down the sidewall of the tire to ease the introduction of the tire iron (Fig. 4.1.1-3). Move the roller to rest position.
To facilitate the lift of the bead on the head tool, position the lower disk next to the edge of the lower rim edge, hold firmly the arm of the disk and start the lifting of the device (Fig.4.1.1-4).
Demount the first bead as described in the tire changer operator's manual.

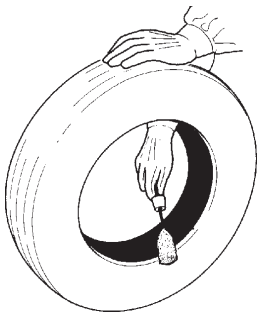
C. Position the lower disk next to the lower rim edge. Hold firmly the handle, and at the same time rotate the turntable (Fig. 4.1.1-5). This operation allows loosening the bead if this is stuck and helps lifting the tire.

NOTE: A certain effort on the handle of the lower disk in radial direction is normal to counter-balance the action of the turntable that pushes the disk off the center when rotating.

THE LOWER DISK DEVICE CANNOT BE LOCKED BECAUSE OF SAFETY REASONS.



4.2-1



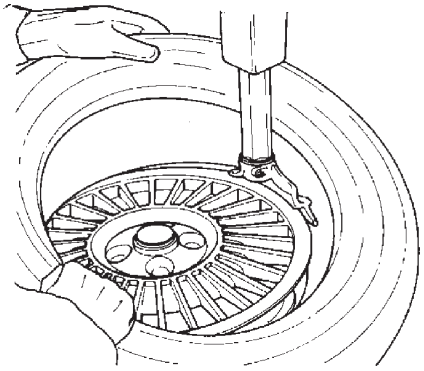
4.2-2

4.2 Mounting tubeless tires

A. Lubricate the entire rim surface (Fig. 4.2-1).
Lubricate both beads, inside and outside, (Fig. 4.2-2).

WARNING

LIBERAL LUBRICATION OF THE TIRE AND RIM IS NECESSARY TO MOUNT THE TIRE CORRECTLY. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.

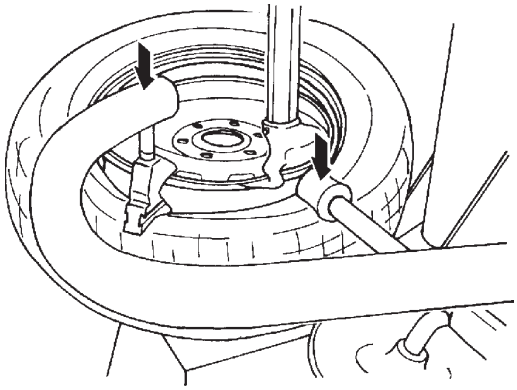


4.2-3

WARNING

OBSERVE THE ROTATION DIRECTION OF THE TIRE, IF REQUIRED. SOME TIRES HAVE A COLOR DOT THAT MUST BE KEPT ON THE OUTSIDE OF THE WHEEL.

B. Lock the rim on the turntable and rotate it to have the valve in 5 o'clock position. Place the tire to be mounted on the rim. Swing the mounting arm forward so that the mount/demount tool is in the working position. Engage the lower bead OVER the mounting wing and UNDER the mounting finger of the mounting tool. Turn the wheel clockwise and push the tire down into the drop center, opposite to the mount/demount head (Fig. 4.2-3).



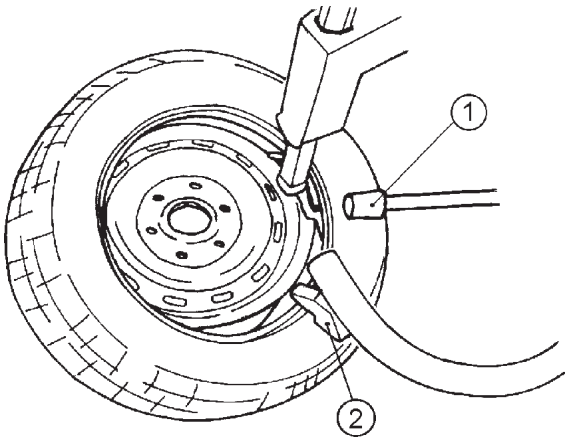
4.2-4

C. Mount the upper bead following the directions in section B (Fig. 4.2-4). With low profile tyres the power assist arm and bead roller can help to facilitate mounting of the top bead.

4.2.1 Use the bead presser as a mounting device.

A. Mount the first bead. Position the roller (Item 1) and the bead pusher tool (Item 2) as showed in Fig. 4.2.1-1.

B. Lower the bead pusher so that the roller and the bead pusher tool on the tire help keeping the bead into the drop center (Fig. 4.2-4).
The bead pusher tool follows the tire rotation during the mounting operation.
Bring the roller and the bead pusher tool back to rest position.



4.2.1-1

4.3-1

EXPLOSION OF A TIRE MAY CAUSE SEVERE INJURY OR DEATH.

WARNING
NEVER EXCEED THE MAXIMUM PRESSURE ALLOWED BY THE TIRE MANUFACTURER.

4.3 Inflation of tubeless tires

Make sure that both beads are properly lubricated.

WARNING

BEAD SEATING IS THE MOST DANGEROUS PART OF MOUNTING A TIRE.

IT IS POSSIBLE TO MOUNT TIRES THAT ARE 1/2" SMALLER IN DIAMETER THAN THE RIM THEY ARE MOUNTED ON. WHILE THESE BEADS WILL SEAL, IT IS IMPOSSIBLE TO GET THEM TO SEAT IN THEIR PROPER POSITION.

Inflate tire according to manufacturers recommendations.

THE RIM MUST BE UNCLAMPED WHEN INFLATING BUT ONLY AFTER BEADS HAVE BEEN SEATED.

THE OPERATOR MUST STAND CLEAR FROM THE WHEEL WHEN INFLATING, AND PRESSURE MUST BE MONITORED FREQUENTLY TO AVOID OVER-INFLATION.

BEFORE INFLATING A TIRE, CHECK THE CONDITION OF TIRE AND RIM.

Due to unusual configurations or the stacking of tires the inflation process is sometimes difficult.

To assist with this problem the tire changer is equipped with bead seater jets incorporated into the tabletop.

To utilize the bead seater proceed as follows:

A. If possible lock the wheel from inside. Outside locking reduces efficiency.

NOTE: Use Light alloy rim protector to prevent any possible damage to the rim when operating on light alloy rims.

B. Connect the inflation hose to the valve stem.

C. Lift the tire with both hands so that upper bead is sealed to the rim edge (Fig. 4.3-1).

D. Press the inflation pedal down swiftly. The top bead is already sealed by the lifting motion. The air from the bead seater jets will rebound into the bottom sidewall driving it into place and creating a seal.
ATTENTION!
WHEN OPERATING THE BEAD SEATER WEAR SAFETY ATTIRE TO AVOID INJURY TO BODY OR EYES.

E. Complete inflation as described

Motorcycle Adapters

4.4 Mounting and Demounting Motorcycle Tires

To mount and demount motorcycle, motor scooter or ATV tires it is necessary to utilize the optional adaptors (4 piece jaws).

The bead breaking, mounting and demounting technique is the same as per car tires.

NOTE: If the top tire bead is difficult to mount, see paragraph 4.2.1.

WARNING!
MOTORCYCLE RIMS MUST ALWAYS BE CLAMPED FROM THE OUTSIDE.

5.0 Demounting tube-type tires

A. For breaking the bead operate as described for the tubeless tires in § 4.1.A to 4.1.F.

In this case, the valve is part of the tube

WARNING

BE CAREFUL NOT TO DAMAGE THE TUBE DURING THE BEAD-BREAKING OPERATION. THE VALVE SHOULD BE OPPOSITE TO THE BLADE OF THE BEAD BREAKER.

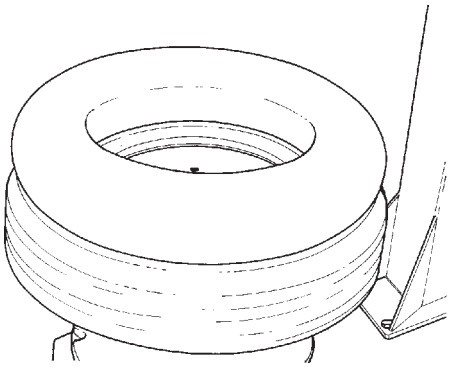
NOTE: In order to avoid damage to their surface finish, alloy rims should be clamped from the outside only. Special plastic caps are available as optional extras for the clamping jaws so that alloy rims can be clamped carefully.

B. To demount the first bead, place the valve at 3 o'clock position.

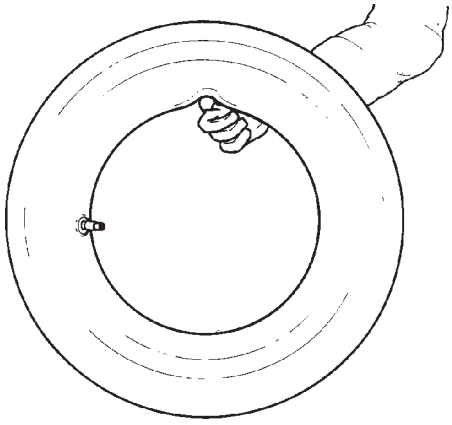
WARNING

DO NOT CATCH THE TUBE WITH THE BEAD LIFTING TOOL, WHEN LIFTING THE BEAD ON THE MOUNTING FINGER

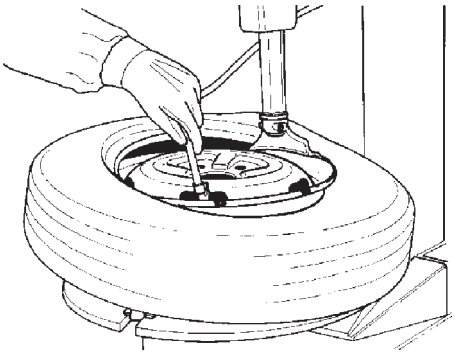
After demounting the first bead remove the tube before demounting the second bead, as described in section 4.1.



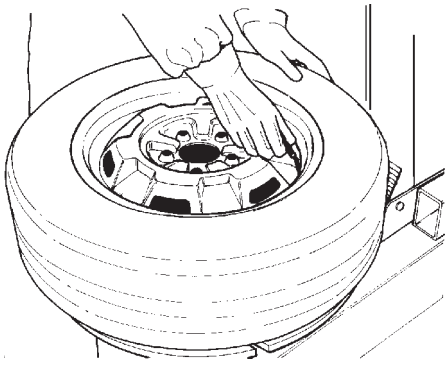
5.1-1



5.1-2



5.1-3



5.2-1

5.1 Mounting tube-type tires

A. Proceed as described in section 4.2.A.
Do NOT lubricate the tube. Talc can be used to assist with the tube positioning.

B. Mount the valve core and place the tube onto the tire to confirm that the tube is of the correct size (Fig. 5.1-1).

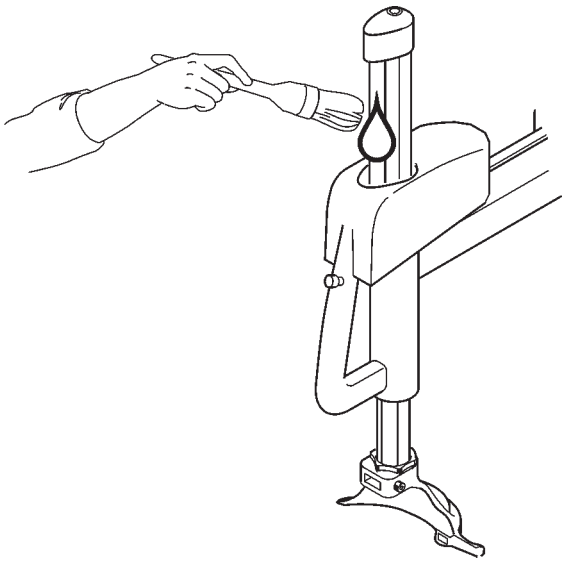
C. Inflate the tube slightly: if held with the index finger it should bend a little (Fig. 5.1-2).

D. Mount the first bead as described in section 4.2.B.
Put the tube inside the tire and secure the valve with the chuck of the inflating hose (Fig. 5.1-3).
Mount the top bead following the directions above.

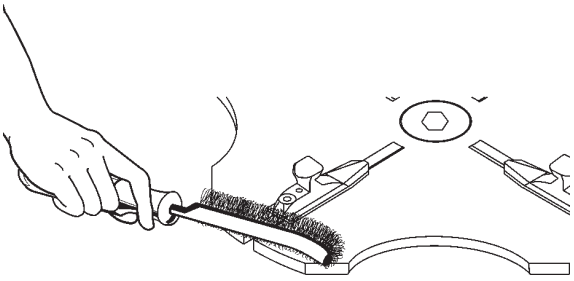
5.2 Inflating tube-type tires

To inflate the tires unlock the rim and start inflating while pressing the valve towards the inside. This is necessary to avoid air pockets forming between tube and tire (Fig. 5.2-1).

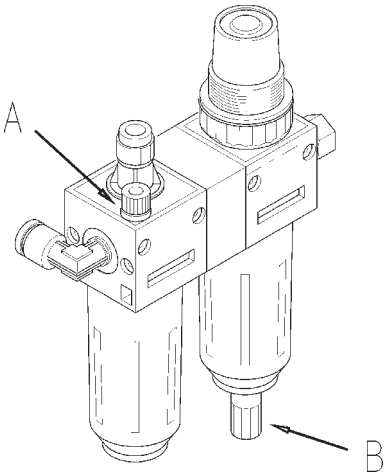
Ensure that the tire is correctly centered on the rim and complete inflation as described in section 4.3.



6.0-1



6.0-2



6.0-3

6.0 Maintenance

WARNING
BEFORE ATTEMPING ANY MAINTENANCE OR REPAIRS THE MACHINE MUST BE DISCONNECTED FROM THE AIR AND ELECTRIC SUPPLY.

A. Periodically clean the vertical hexagonal rod with nonflammable liquid detergent. Lubricate with oil (Fig. 5.4).

B. Periodically clean all moving metal parts and lubricate with oil.

C. Clean the teeth of the clamps with a wire brush, check the plastic rim protectors and replace if worn (Fig. 5.5).

D. Peridically replaced the plastic insert inside mount/ demount tool.

E. Lubricate rods of air cylinders with oil as needed.

F. Periodically wash all plastic parts with cold water and soap or window cleaner.

G. Check the bead breaker pads. Replace if worn.

H. Discharge the water every day from air filter

I. The machine is equipped with an automatic lubricator. Check the oil level weekly.
When adding oil to the lubricator, disconnect the air supply first, remove the fill screw 'A', and add oil as needed. Make sure seals are in place when repositioning the cup
Drain water daily from water separator. Do this by pulling down the fitting 'B' (Fig. 5.6).

WARNING!

PAY ATTENTION TO KEEP FILLED THE OIL TANK OF THE OILER, EXPECIALLY FOR AIR MOTOR OPERATED MACHINES.

WARNING!

USE ONLY OILS FOR AIR DEVICES, DO NOT USE BRAKE FLUID OR OTHER NOT SUGGESTED LUBRICANTS.

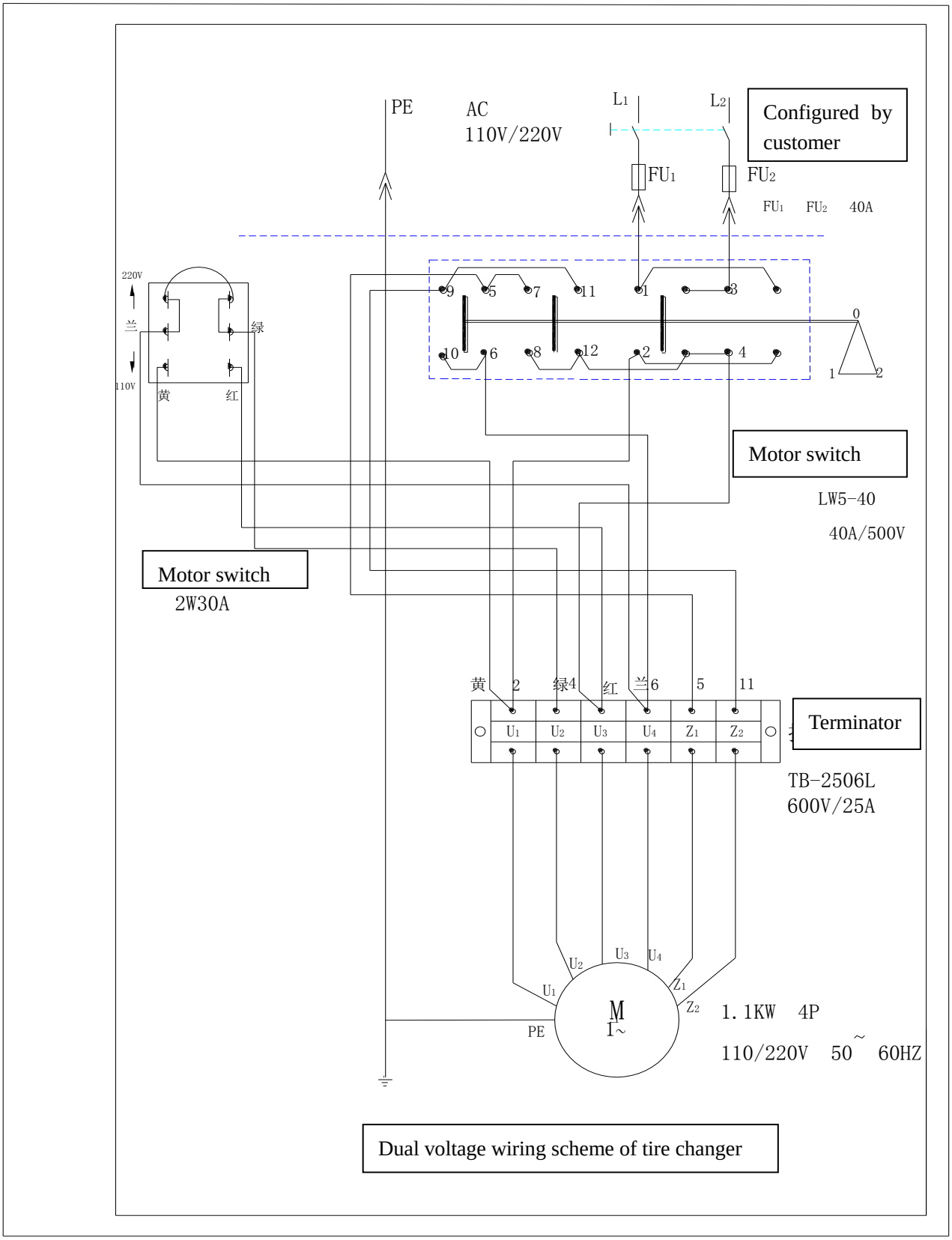
Suggested oils for the filter/lubricator unit:

10W Non detergent / Air tool oil.

7.0 Troubleshooting

ISSUE	REASON	SOLUTION
Turntable rotates in only one direction.	Universal switch contact maybe burned	Change Universal switch
Turntable does not rotate.	Belt damage Belt too loose Motor or power source have problems Universal switch contact damage	Change belt Adjust the tension of the belt Check motor, power source and power source cable Change motor if motor burned Change Universal switch
Turntable can not clamp the rim as normal	Mounting jaw is worn Clamp cylinder air leakage	Change claws Change the air leakage sealing parts
Quadric and hexangular shaft cannot lock	Lock plate not in position Lock cylinder air leakage	Adjust the adjust screw of the lock plate Change the cylinder sealing washer
The horizontal arm fault The vertical movement of the hexangular jamming	The lock position of the quadric lock position is not correct The lock position of the hexangular lock position not correct	Adjust the quadric/hex-angular lock plate
The tilting tower moves too fast or slow	The air source pressure is too slow or too fast	Open the side panel and adjust the throttle
Chassis pedal not return.	Pedal return spring damage	Change the torsion spring
Motor not rotate or the output torque not enough	Drive system jam Capacitor failure Voltage not enough Short-circuit	Remove the jam Change capacitor Wait for the restore of the voltage
Cylinder output force is not enough	Air leakage Air pressure not enough	Change sealing parts Adjust the air pressure to meet the requirement

110/220V Electrical scheme



Pneumatic Schematic Diagram