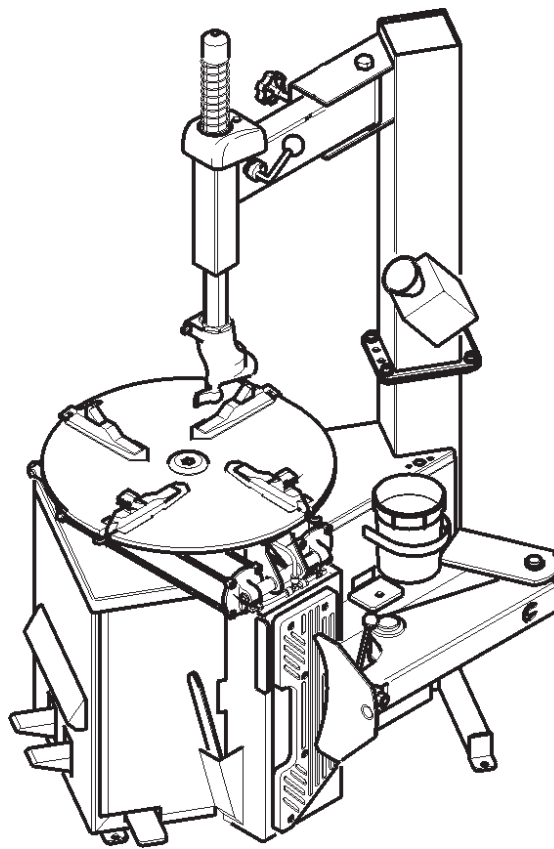


EEWH310A

Air/Electric Tire Changers

Operation Instructions



Snap-on®

FORM #SS1836

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EEWH310A

Air/Electric Tire Changers Operation Instructions

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SAFETY INFORMATION

**For your safety, read this manual thoroughly
before operating the EEWH310A Tire Changer**

The EEWH310A Tire Changer is intended for use by properly trained automotive 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 these products.

There are many variations in procedures, techniques, tools, and parts for changing tires, as well as the skill of the individual doing the work. Because of the vast number of wheel and tire applications and potential uses of the product, the manufacturer cannot possibly anticipate or provide advice or safety messages to cover every situation. It is the automotive technician's responsibility to be knowledgeable of the wheels and tires being changed. It is essential to use proper service methods and change tires in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area or the equipment or vehicle being serviced.

It is assumed that, prior to using the EEWH310A Tire Changer, the operator has a thorough understanding of the wheels and tires being changed. In addition, it is assumed he has a thorough knowledge of the operation and safety features of the rack, lift, or floor jack being utilized, and has the proper hand and power tools necessary to service the vehicle in a safe manner.

Before using the EEWH310A Tire Changer, always refer to and follow the safety messages and service procedures provided by the manufacturers of the equipment being used and the vehicle being serviced.



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

SAFETY INSTRUCTIONS

IMPORTANT!! SAVE THESE INSTRUCTIONS!!



Overinflated tires or tires mounted on the wrong sized rims can explode producing hazardous flying debris.

- **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.**
- **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 base 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 base cabinet.**
- **Unplug the unit before servicing.**

Contact with high voltages can cause death or serious injury.

Warning !

Risk of crushing. Stand clear of bead breaker arm during operation.

- **Read and understand the operation instructions before using this tire changer.**
- **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.**
- **Keep all persons clear of tire changer.**

Contact with moving parts could cause injury.

Warning !

Risk of pinching or crushing hands and fingers when mounting and demounting.

- **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.**

Contact with moving parts could cause injury.



Risk of eye injury. Flying debris, dirt, and fluids may be discharged during bead seating and inflation process.

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

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



Risk of injury. Tools may break or slip if improperly used or maintained.

- **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.**

Tools that break or slip can cause injury.

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

⚠ 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 could 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 or 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.

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1.0 INTRODUCTION

Congratulations on your purchase of the Snap-on EEWH310A air-electric 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 aluminum or magnesium alloy wheels with reduced risk of damage. With a minimum of maintenance and care your Snap-on EEWH310A 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.

1.1 SPECIFICATIONS

Operation temperature range: +41/+122 F (+5/50 C)

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

EEWH310A

- Rim diameter capacity:
 - with motorcycle jaws 15" to 21"
 - with special jaws for motor-scooter/ATV wheels 7" to 15"
- Rim Width Maximum: 10"
- Tire Diameter Maximum: 40"
- Bead Breaking Force: 3300 lbs. at 150 psi air supply
- Electric Requirements: 110V, 60Hz, 20 amp
- Air Requirements: 110 - 170 psi
- Shipping Weight: 380 pounds

1.2 NOMENCLATURE

Before installing and using the Snap-on EEWH310A Tire Changer it is suggested that you become familiar with the nomenclature of the machine's components.

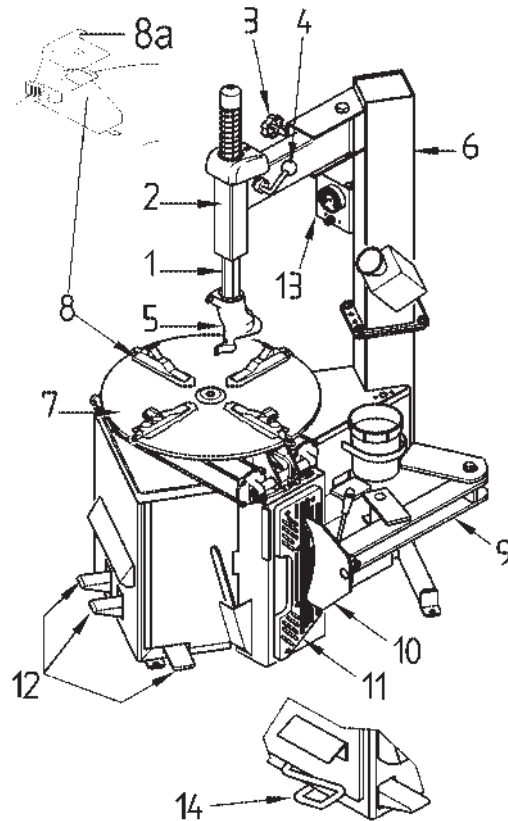


Figure 1

1065b

- 1 Vertical Hex Shaft
- 2 Swing Arm
- 3 Rim Diameter Adjustment
- 4 Mount/Demount Head Lock lever
- 5 Mount/Demount Head
- 6 Tower or Column
- 7 Turntable
- 8 Clamping Jaws (Rim Clamps)
- 8a Teeth of the jaws
- 9 Bead breaker arm
- 10 Bead breaker blade
- 11 Bead breaker pads
- 12 Foot pedal controls
- 13 Inflation gauge
- 14 Inflator pedal

1.2.1 TURNTABLE & CABINET FEATURES

EEWH310A

WHEEL CLAMPS

TWIN CYLINDER CLAMPING POWER

- Two 3" clamping cylinders provide uniform clamping pressure throughout the stroke (regardless of rim sizes) as well as providing 25% more clamping power than most single clamping cylinder tire changers. Additionally these two smaller cylinders reduce the critical turntable to cabinet distance, reducing the stress on the transmission.

ATV WHEELS / MOTORCYCLES ADAPTER

Two different sets of clamps can cover all range for ATV / motor-scooter and motorcycles wheels.

NYLON INSERT SOFT TOUCH CLAMPS

Single sided nylon insert in the clamping jaws provides Nonmetal touch in critical customer visible areas.

INCOMING AIR PRESSURE GAUGE

Ergonomically located air gauge allows easy operator monitoring of incoming air pressure.

INTEGRATED PRESSURE LIMITER

Integrated safety pressure limiter stops air flow once tire pressure has reached approximately 55 PSI preventing accidental tire over-inflation.

MOUNT/DEMOUNT ARM ASSEMBLY

ADJUSTABLE SLIDEWAY

- Unique adjustable vertical mount/demount hex shaft slideway allows for easy operator adjustment to compensate for any cumulative wear in the slideway causing mount/demount head movement.

NON-SCRATCH NYLON INSERT

- Integrated into the mount/demount head is a replaceable scratch resistant nylon insert protecting against accidental rim contact.

CONSTRUCTION DESIGNED FOR DURABILITY

RUST PROOF VALVES AND CYLINDERS

- Critical bead breaking cylinder is lined with rustproof polyfiber liner for years of rust free operation. Non-lined cylinders will pit causing bead breaker power loss.

LIFETIME LUBRICATED POLYMER VALVES

- Critical footvalves fabricated from glass/fiber self-lubricating material providing years of maintenance free operation.

WATER SEPARATOR AND AUTOMATIC OILER

- Lubricates all air used for machine operation, does not lubricate air used for tire inflation, as do some competitive models.

HIGH TORQUE 1HP MOTOR - (air-electric models)

- Industrial strength high torque turntable drive motor eliminates tire remount stalling on low profile high performance tires (UL/CSA approved).

3 YEAR TRANSMISSION WARRANTY

- Designed for extremely heavy use, the critical motor to turntable transmission linkage carries a full three (3) year replacement warranty.

1.3 MACHINE DIMENSIONS

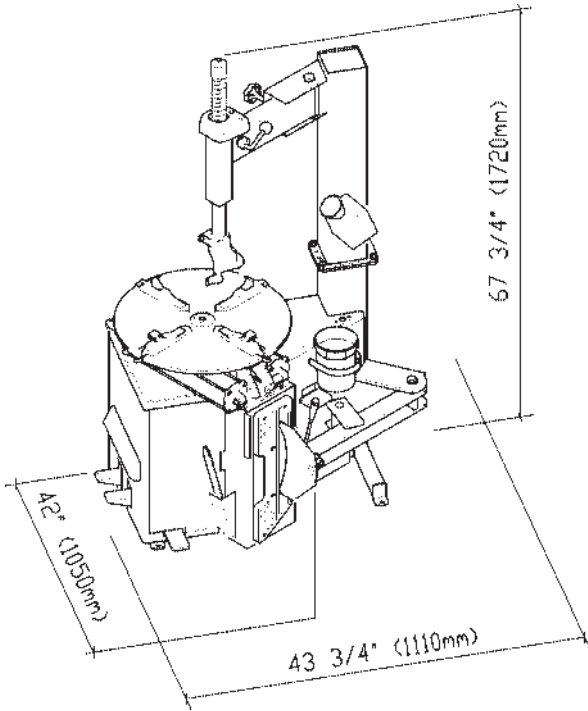


Figure 2

xxx

1.4 STANDARD EQUIPMENT

#EAA0247G02A - Mount /Demount Tool (Fig. 3)



Figure 3

294

#EAA0247G05A - Assembly Bottle (Fig. 4)

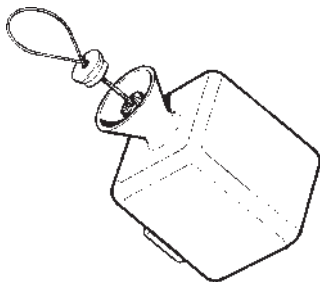


Figure 4

736a

#EAA0304G16A - Swab
(See Fig. 5 below)

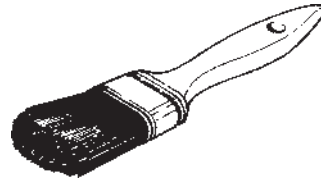


Figure 5

311

#EAA0247G06A - Insert for mounting head
(See Fig. 6 below)

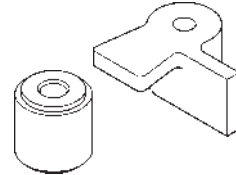


Figure 6

748 - 747

#EAA0304G23A - Motorcycles jaws

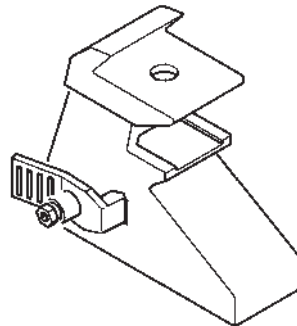


Figure 7

353

#EAA0304G24A - Special jaws 7 to 15"

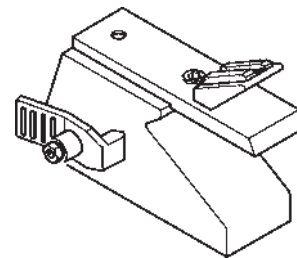


Figure 8

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1.5 OPTIONAL ACCESSORIES

#EAA0247G70A - Bead Holding Clamp (Fig. 9)

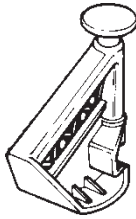


Figure 9

315a

#EAA0247G04A - M/D Tool Protection (Fig. 10)

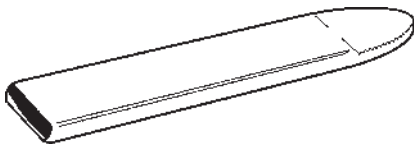


Figure 10

1078

1.6 GENERAL PRECAUTIONS

A. DURING THE 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 MUST BE CONNECTED TO THE GROUND CABLE OF THE POWER SOURCE.

C. BEFORE ANY MAINTENANCE OR REPAIRS ARE ACCOMPLISHED THE MACHINE MUST BE DISCONNECTED FROM THE AIR AND ELECTRICAL 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 - GLOVES, SAFETY SHOES AND GLASSES.

2.0 INSTALLATION

Your new Snap-on EEWH310A Tire Changer requires a simple installation procedure requiring only a few moments. Included in the literature packet with your machine is an instructional video. Section #2 of the video clearly details all installation procedures. Follow these instructions carefully to insure proper and safe operation.

The Tire Changer is delivered mounted to a wooden skid. Remove tire changer from its mounts carefully, taking care to avoid any back strain.

Place Changer where proper operation will be unobstructed to all sides. Install the machine in a covered and dry place.

Once placed in the desired location the tire changer must be bolted to the floor.

Secure the machine to the floor through the holes provided in the cabinet, using 3/8x2" anchor bolts (Recommended).

2.1 ELECTRICAL INSTALLATION

⚠ WARNING

BUILDING ELECTRICAL INSTALLATION MUST BE MADE BY A LICENSED ELECTRICIAN.

Check that the electrical specifications of the power source are the same as the machine. The machine uses 110v, 60 hz, grounded single phase 20 amp source. Electric specifications are clearly marked on a label at the rear of the machine.

⚠ DANGER

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



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2.2 BEAD BREAKER INSTALLATION

The side mounted Bead Breaker is shipped from the factory dismounted for a more compact shipping package.

- A. Cut the plastic tie strap which secures the Breaker Arm to the cabinet pivot.
- B. Remove the "C" clip from the top of the pivot pin, slip the pin out of the hole.
- C. Place the Breaker Arm into position and insert the pivot pin through the top and bottom holes.
- D. Replace the "C" clip retainer onto the pivot pin.
- E. Locate the spring located at the rear of the pivot mount. Place the free end of the spring onto the "ear" located on the Breaker Arm just forward of the pivot.

HINT: You may tie a small rope or cord onto the free end of the spring then run the cord through the hole. Pull the spring end toward the ear and loop free end over the ear tab.

2.3 AIR INSTALLATION

WARNING

THE AIR INSTALLATION MUST BE MADE ONLY BY QUALIFIED 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 pressure exceeds 170 psi (12 bar) it is mandatory to install a pressure regulator before the air inlet of the machine.

If the air pressure is lower than the minimum required of 110 psi (8 bar) the clamping power of the turntable and the bead breaker power may be insufficient for certain tires and substantially reduces tire changer performance. It is suggested that the shop air supply be equipped with a water separator/dryer type modification for maximum performance.

After ensuring all the above proceed as follows:

- A. Connect the machine to the air supply with a rubber hose (rated for the pressure) with an internal diameter of no less than 1/4" (6 mm).
 - The air inlet fitting is provided with 1/4" NPT tapered pipe threads.



WARNING! BEFORE CONNECTING THE MACHINE TO THE AIR SUPPLY BE SURE ALL PERSONNEL ARE CLEAR OF THE MACHINE AND NO ITEMS ARE LEFT ON THE TURNTABLE.

- B. It is strongly recommended that an air valve shut-off be installed between the shop air supply and the tire changer for routine maintenance and in case of an emergency.
- C. Should you install any optional accessories, please refer to the relevant instructions.
- D. Ensure the functional ability of the air lubricator by ensuring that the glass sight bowl is filled with air lubricant.

3.0 CONTROLS

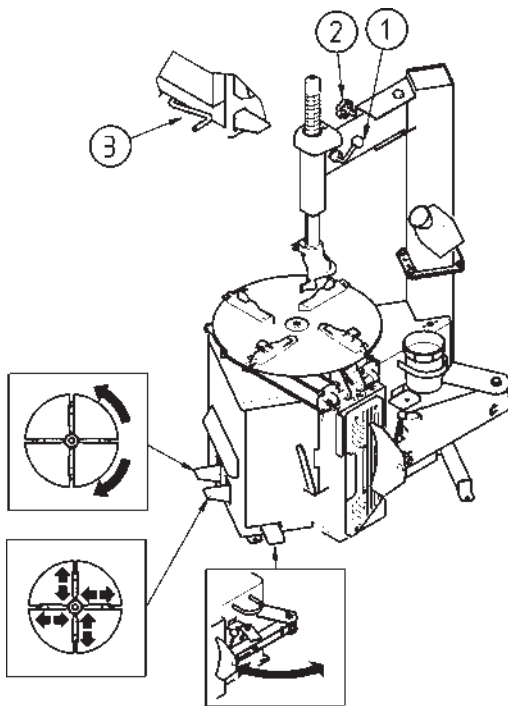


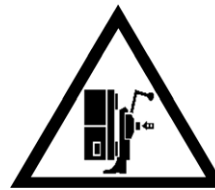
Figure 11

1033

Before operating the machine, take the time to familiarize yourself with the operation and function of all the controls.

- A** Press down and release the second pedal from the left: the jaws of the turntable will retract. Do it again: the jaws will expand. If you press the pedal prior to the end of the stroke and release, the jaws may be stopped in any position.
- B** Open the bead breaker arm. Press down and hold the pedal on 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!
ALWAYS KEEP ARMS AND LEGS AWAY FROM THE BEAD BREAKER STROKE!!



542a



541a

- C** Press down and release the first pedal from the left: the turntable turns clockwise. Lift the pedal and the turntable turns counter-clockwise.
- D** Lower the Lock Lever (1 Fig.11) to unlock the vertical slide; lift the Lock Lever to lock.
- E** Turn Swing Arm Adjustment Knob (2 Fig.11) for positioning mount/demount head slightly away from rim diameter.
- G** Press inflator pedal on left side of the machine (3 Fig.11) down: This will allow activate the tire inflation line. Air comes out of inflator hose.

WARNING!!
WHEN OPERATING THE TIRE INFLATOR IT IS MANDATORY TO WEAR SAFETY GLASSES TO PROTECT EYES.

4.0 MOUNTING AND DEMOUNTING PRECAUTIONS

IMPORTANT!

BEFORE MOUNTING A TIRE ON A RIM, PAY ATTENTION TO THE FOLLOWING:

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

B. THE TIRE MUST BE CLEAN AND DRY, WITHOUT ANY DAMAGE TO THE BEAD.

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 TO MOUNT THE TIRE CORRECTLY AND GET A PROPER CENTERING. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.

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

4.1 MOUNTING AND DEMOUNTING MOTORCYCLE TIRES

To mount and demount motorcycle tires it is necessary to utilize the motorcycle jaws (part number EAA0304G23A). For ATV or motor-scooter wheels it is mandatory to use the Special jaws 7 to 15" (part number EAA0304G24A). The bead-breaking, mounting and demounting technique is the same as per the car, tubeless or tube-type tires.

NOTICE!

MOTORCYCLE RIMS MUST ALWAYS BE CLAMPED FROM THE OUTSIDE. AIR PRESSURE MUST NOT EXCEED 110 PSI (8 BAR) WHEN CLAMPING MOTORCYCLE RIMS.

4.2 DEMOUNTING TUBELESS TIRES

A. Remove all wheel-weights from the rim. Remove the valve stem or valve stem core and deflate the tire (Fig. 12).

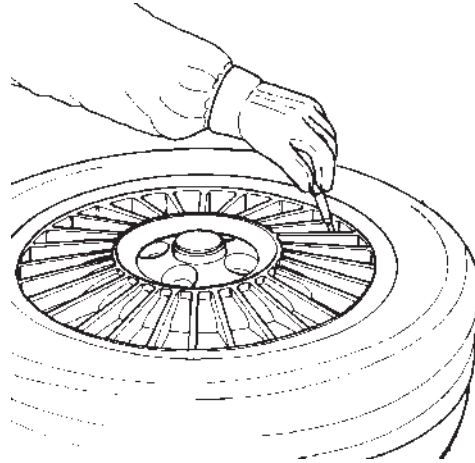


Fig. 12

535a

B. Break both beads.

Hold open the Bead Breaker, roll the tire/rim into the Breaker area (Fig. 13). Ensure that the tire/rim assembly is flat against the rubber breaker pads on the side of the machine. Make certain that the bead breaker blade is not over the top of any portion of the rim. Now activate the bead breaker pedal. As soon as the bead dislodges from the rim, release the breaker foot pedal. It may be necessary to rotate the tire 90 degrees and repeat the above procedure to dislodge all beads.

Pay extra attention during this operation as it is easy to mistakenly keep your foot on the bead breaking pedal too long. This could potentially result in bead or rim damage (Fig. 13)

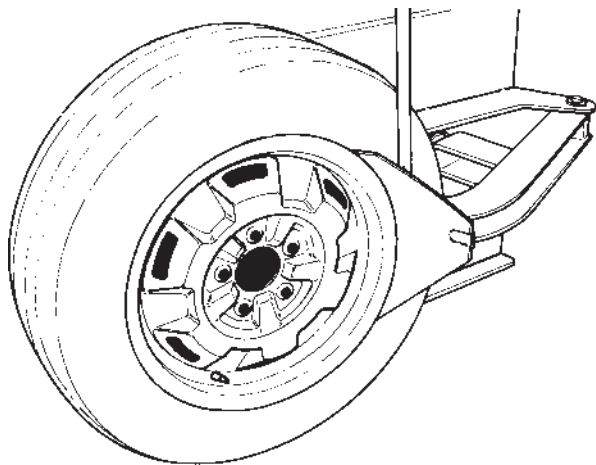


Fig. 13

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NOTICE !

ON RUN FLAT TIRES WITH THE OPTIONAL LOW PRESSURE SENSOR INSTALLED, BREAK THE BEAD AT 90 DEGREES OFFSET FROM THE VALVE STEM. DAMAGE TO THE WHEEL AND/OR SENSOR MAY 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 outside.

When clamping small wheels (14" or smaller) from the outside, set the clamps at a diameter nearly equal to the rim diameter before placing the wheel on the clamps. This will help avoid the possibility of pinching the tire as the clamps retract.

NOTICE !

TO MINIMIZE THE RISK OF SCRATCHING ALLOY OR CLEAR COATED RIMS, THESE RIMS ARE CLAMPED FROM THE OUTSIDE.

D. Liberally lubricate both beads. Place the wheel **WITH DROP CENTER UP** (Fig. 14a) on the turntable, and clamp in position. It may be necessary to hold the tire and wheel down while clamping to insure contact between rim and clamp as shown in 14a.

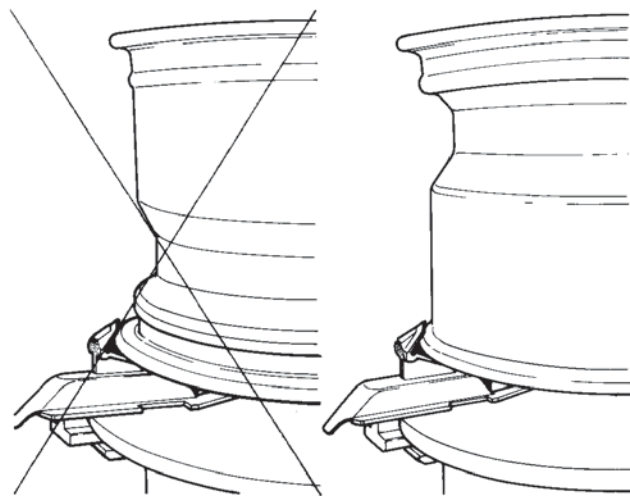


Fig. 14

Fig. 14a

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E. Gently position the mount/demount head in contact with rim edge, now manually push the lock lever up and lock it into place. The mount/demount head automatically moves vertically up and away from the rim edge. Turn the swing arm adjustment knob clockwise until the mount/demount head moves horizontally away from the rim flange by approximately 1/16" (2mm): this is necessary to avoid any rim contact during the changing process. (Fig. 15).

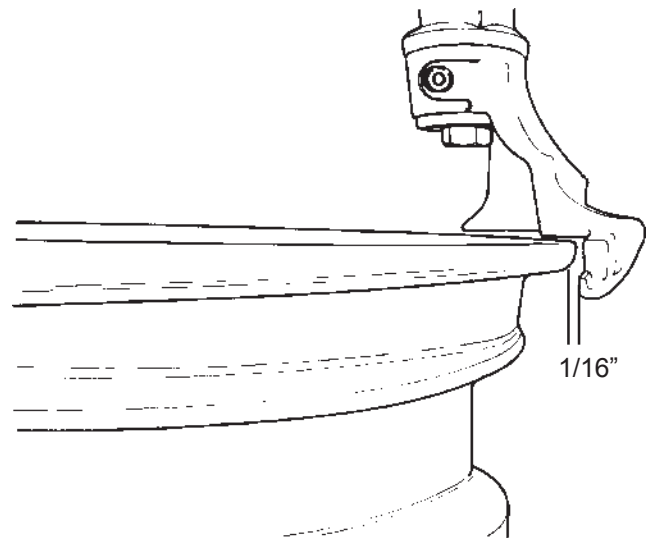


Fig. 15

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NOTE:

YOUR MACHINE IS SHIPPED WITH SEVERAL REPLACEMENT PLASTIC INSERTS (INSIDE STANDARD EQUIPMENT PACK). THE PLASTIC INSERTS WILL HELP AVOID DAMAGE FROM ACCIDENTAL CONTACT BETWEEN THE MOUNT/DEMOUNT HEAD AND THE RIM. THE PLASTIC INSERTS WILL NEED TO BE PERIODICALLY REPLACED.

MAINTENANCE NOTE:

IF THE MOUNT/DEMOUNT HEAD NYLON INSERTS ARE WEARING OUT PREMATURELY, THE CAUSE IS THE OPERATOR'S FAILURE TO CORRECTLY SET THE RIM DIAMETER ADJUSTMENT KNOB, CAUSING THE INSERT TO INCORRECTLY CONTACT THE RIM.

NOTE:

ONCE THE MOUNT/DEMOUNT HEAD IS POSITIONED PROPERLY, IDENTICAL WHEELS MAY BE CHANGED WITHOUT HAVING TO RESET THE HEAD.

F. Insert the mount/demount tool between the bead and the mount/demount head. Pry the bead onto the mount/demount head using the mount/demount head as the leverage point. To make this operation easier, insure that the bead of the tire, 180° across from the mount/demount head, is in the drop center of the wheel. Push the tire into the drop center with your hand or bead depressor tool if necessary.

It is suggested that the mount/demount tool be removed after lifting the bead onto the mount/demount head (Fig. 16), however, you may remove the tool after the bead has been

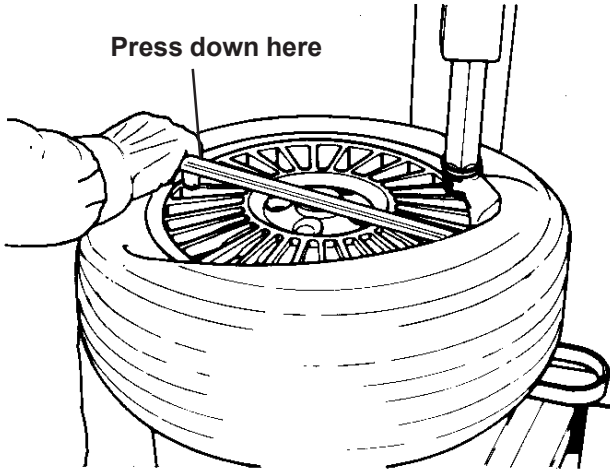


Fig. 16

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G. Rotate the turntable clockwise (pedal down) and, at the same time, push down on the tire sidewall to move the bead into the drop center of the rim (Fig. 17).

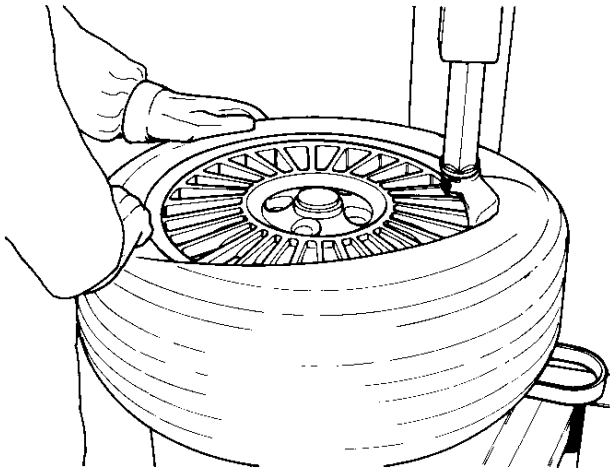


Fig. 17

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H. Repeat the process for removing the lower bead. This time, lift the bead opposite to the mount/demount head to keep it in the drop center (Fig. 18).

Pivot the swing arm to the right and remove the tire.

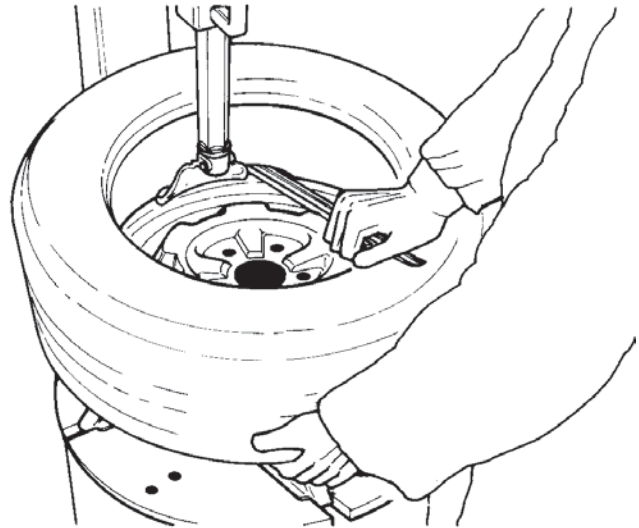


Fig. 18

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4.3 MOUNTING TUBELESS TIRES

A. Clean entire rim surface (Fig. 19).

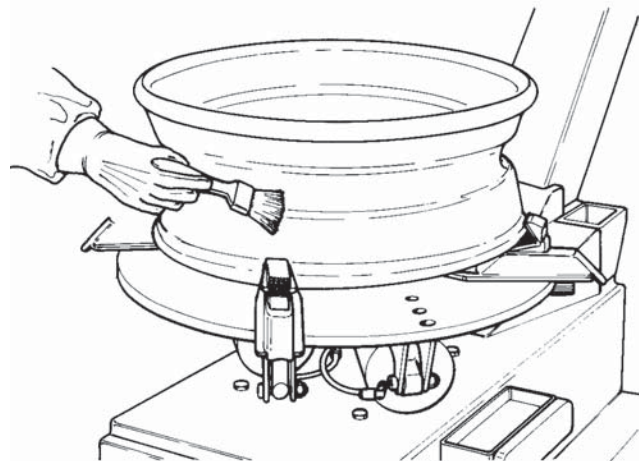


Fig. 19

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Liberally lubricate both beads of the tire with approved tire lubricant (Fig. 20).

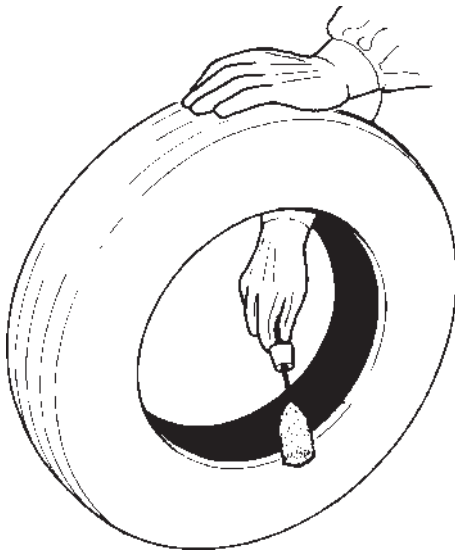
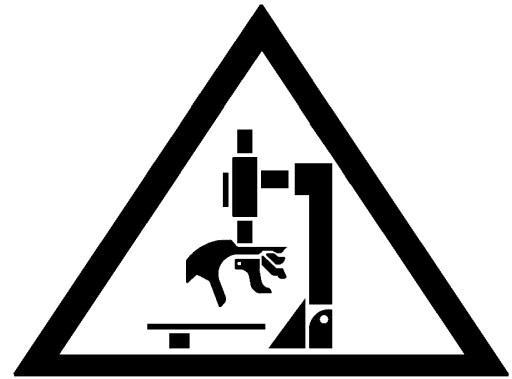


Fig. 20

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NOTICE!

THESE LUBRICATION OPERATIONS ARE NECESSARY TO MOUNT THE TIRE CORRECTLY AND GET A PROPER CENTERING ON THE RIM. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.



DANGER!!

**Keep hands and fingers
clear of mount/demount
head during operation.**

NOTICE!
SOME TIRES HAVE A COLOR DOT THAT IS TO BE KEPT ON THE OUTSIDE OF THE WHEEL AND IS TO BE ALIGNED WITH THE VALVE STEM. IF THIS IS THE CASE BE SURE TO ATTAIN PROPER ALIGNMENT PRIOR TO TIRE INFLATION.

B. Lock the rim to the turntable and rotate it so that the valve is at the 2 o'clock position. Place the tire to be mounted on the rim. Swing the mount/demount arm in so that the mount/demount head is in the working position. (Fig. 21) Position the lower bead on top of the mount/demount head and UNDER the mounting finger of the mount/demount head (Fig. 21). Turn the wheel clockwise (right pedal down) while simultaneously pushing the tire down into the drop center, opposite to the mount/demount head.

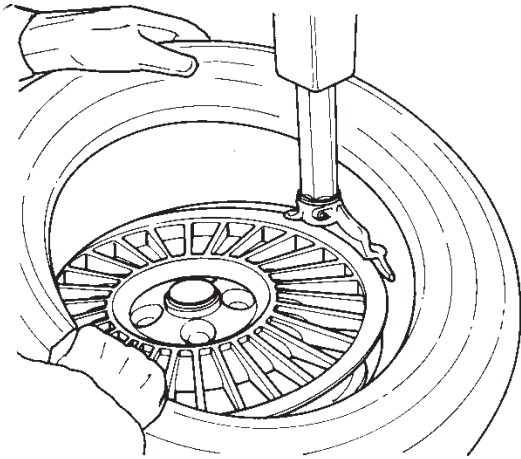


Fig. 21

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C. Mount the upper bead following the same directions in section B. With low profile tires the Bead Holding Clamp (option EAA0247C70A Fig. 22) can help to prevent the top bead from prematurely seating during the mounting cycle.

NOTE: Bead Holding Clamp must be removed prior to coming full circle and impacting the mount/demount head.

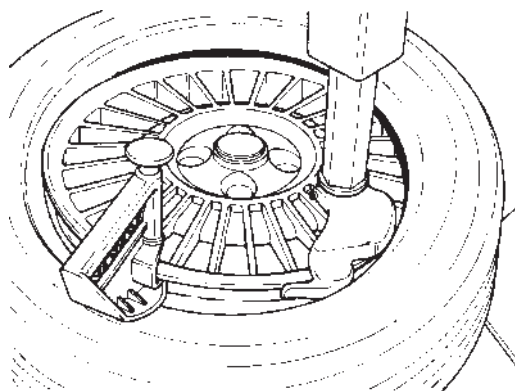


Fig. 22

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4.4 IF THE TOP TIRE BEAD IS DIFFICULT TO MOUNT

Follow these instructions using the Bead Holding Clamp p/n EAA0247C70A (optional).

A. After installing, the bottom bead insert the tire tool to the left of the bead head as shown (Fig. 22a). To protect decorative rims use protective sleeve p/n EAA0247G04A (optional).

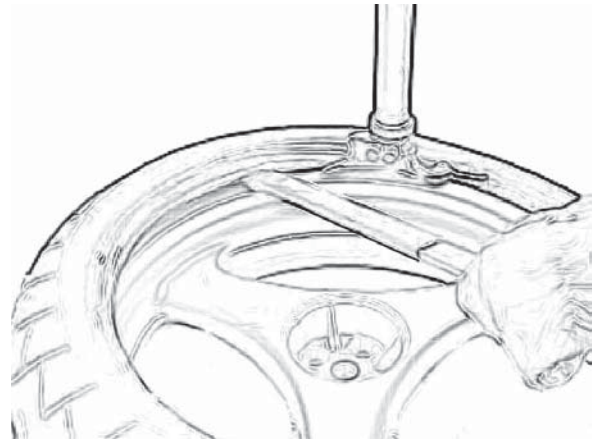


Fig. 22a

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B. Step on the foot pedal to rotate the turntable clockwise until the tire lever is tight against the bead head.

C. Using your right hand push and hold the tire bead opposite the bead head into the rim drop centre.

D. Position the bead clamp to hold the tire bead into the rim drop centre (Fig. 22).

E. As the turntable is turning use the tire tool in your

left hand to raise and guide the tire bead onto the bead head (Fig. 22b).

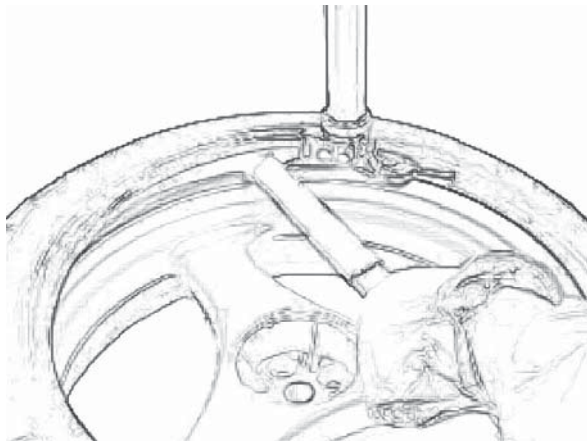


Fig. 22b

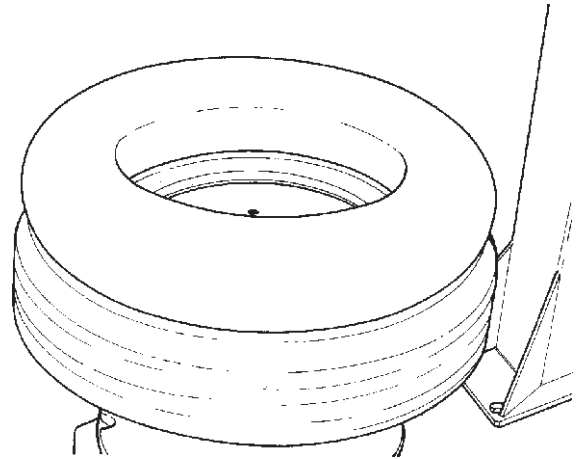
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F. Continue to rotate the turntable until the top bead is mounted. Do not remove the tire tool or bead clamp until the foot pedal is released.

5.1 MOUNTING TUBE-TYPE TIRES

A. Perform steps described in section 4.3.A. **DO NOT** lubricate the tube. Talc can be used to assist with tire positioning if necessary.

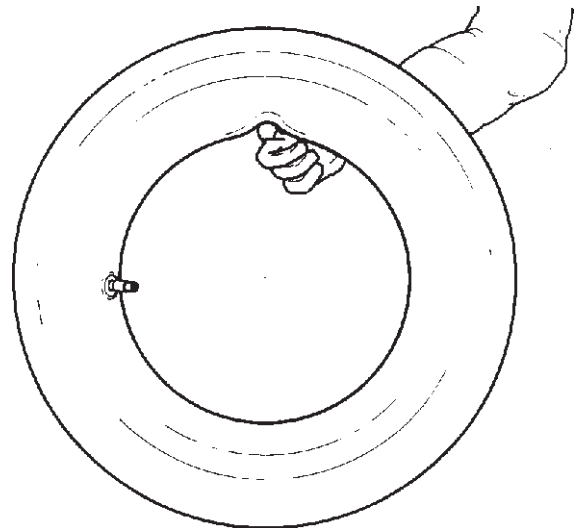
B. Confirm that the tube is the correct size for the tire to be mounted. (Fig. 23).



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Fig. 23

C. Inflate the tube slightly; if held with the index finger it should bend a little (Fig. 24).



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Fig. 24

5.0 DEMOUNTING TUBE-TYPE TIRES

A. For breaking the bead operate as described for the tubeless tires in section 4.2. point A to F.

In this case the valve is part of the tube.

NOTICE!

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

B. To demount the first bead, place the valve at 2 o'clock position.

NOTICE!

BE CAREFUL NOT TO CATCH THE TUBE WITH THE MOUNT/DEMOUNT TOOL, WHEN LIFTING THE BEAD ON THE MOUNTING FINGER.

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

D. Mount the first bead as described in section 4.3.B. Put the tube inside the tire and connect the inflation air line to the tube valve to hold the tube in place. (Fig. 25). Mount the top bead following the directions above.

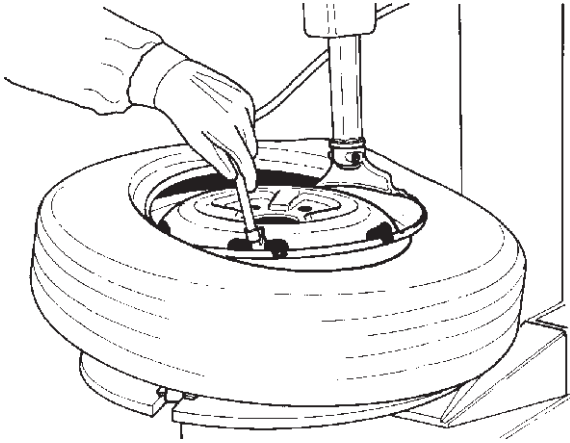


Fig. 25

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To inflate the tire unlock the rim and start inflating while pressing the valve towards the inside (this is necessary to avoid air pockets forming between tube and the tire) (Fig. 26).

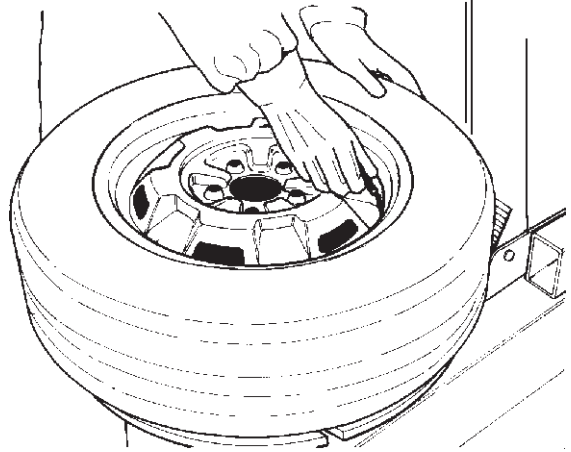


Fig. 26

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5.2 INFLATING TUBE-TYPE TIRES.

Make sure that both beads are properly lubricated.

▲ DANGER

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

NEVER STAND OVER TIRE WHEN ATTEMPTING TO SEAT BEADS OR DURING INFLATION.

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

EXPLOSION OF A TIRE MAY CAUSE SEVERE INJURY OR DEATH.

▲ DANGER

NEVER EXCEED THE MAXIMUM PRESSURE ALLOWED BY THE TIRE MANUFACTURER.

THE RIM MUST BE UNCLAMPED WHEN INFLATING BUT ONLY AFTER THE 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 THE TIRE AND THE RIM.

Ensure that the tire is correctly centered on the rim and complete inflation.

6.0 MAINTENANCE

WARNING

BEFORE STARTING ANY MAINTENANCE OPERATION ENSURE THAT THE MACHINE IS DISCONNECTED FROM THE AIR AND ELECTRIC SUPPLY.

A. Periodically clean the vertical hexagonal rod with liquid detergent. After this immediately lubricate with a light lubricating oil (Fig. 27).

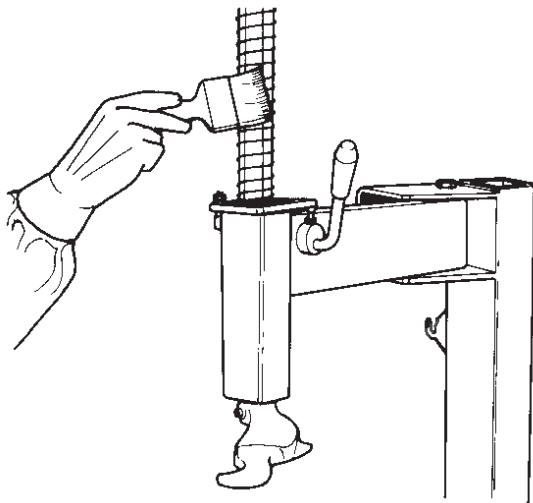


Fig. 27

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

C. Weekly clean the teeth of the jaws (1 Fig. 28) with a wire brush, check the nylon clamping jaw insert (2) and replace if worn.

Clean the lock / un-lock mechanism of the clamping jaw (3) and slightly lubricate it.

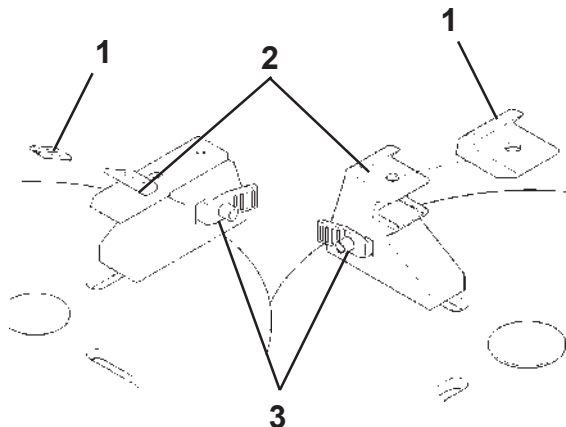


Fig. 28

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D. Inspect and replace as necessary the plastic mount/demount head insert. The insert is held in place by a small roll pin. Drive the pin out with a punch, replace after new insert is installed.

E. Lubricate piston rods of turntable 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 water from air filter every day!! Do this by turning the knob "B" clockwise and push upward. Water will automatically be discharged. (see 'B' at Fig. 29).

I. Check the automatic air lubricator 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 replacing the cap.

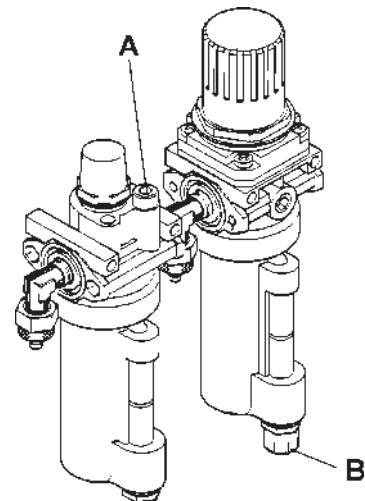


Fig. 29

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NOTICE!

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

Suggested oils for the filter/lubricator unit:

- 10W Non detergent / Air Tool Oil

e.g.	
TAMOIL:	WHITE MINERAL OIL 15
SHELL:	ONDINA OIL 15
BP:	ENERGOL WT 3
TOTAL:	LOBELIA SB 15
ESSO:	MARCOL 82

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