HOFMANN®

monty 1685

Operator manual

Tire Changer

SAFETY INFORMATION

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

This 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 caution when servicing tires with these products.

There are many variations in procedures, techniques, tools, and parts for mounting and demounting of 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 serviced. It is essential to use proper service methods 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 that tire changer, the operator has a thorough understanding of the wheels and tires being serviced. 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 present 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 !!

IMPORTANT SAFETY INSTRUCTIONS

When using this equipment, basic safety precautions should always be followed, including the following:

1. **Read all instructions.**
2. **Do not operate equipment with a damaged power cord or if the equipment has been damaged - until it has been examined by a qualified authorized service technician.**
3. **If an extension cord is used, a cord with a current rating equal to or more than that of the machine should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.**
4. **Always 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.**
5. **To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).**
6. **Keep hair, loose fitting clothing, fingers and all parts of the body away from moving parts.**
7. **Adequate ventilation should be provided when working on operating internal combustion engines.**
8. **To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.**
9. **Do not hammer any part of the machine, it isn't designed to be an anvil.**
10. **Do not allow unauthorized personnel to operate the equipment.**
11. **Do not disable or bypass the safety systems and follow all the safety procedures.**
12. **Use only as described in this manual. Use only manufacturer's recommended attachments.**
13. **Always securely lock the rim before actuating rotation.**
14. **ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.**
15. **The equipment is for indoor use only.**

SAVE THESE INSTRUCTIONS

UPDATING GUIDE

Release: _____ **B** _____ May 2024

Finalization of technical data

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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.

Collision and dragging hazard:
- **do not rotate the turntable without wheel on board**
- **do not approach the turntable plate while it is moving**
- **pay attention to the jaws when these stick out of the turntable plate**
- **do not place any protruding objects on the turntable plate**
- **do not place any protruding objects near the turntable plate**

Contact with moving parts could cause injury.

Collision and dragging hazard:
- **Do not rotate the turntable without a wheel.**
- **Do not approach the flange if it is moving.**
- **Pay attention to the claws when they project from the flange.**
- **Do not place projecting objects on the flange.**
- **Do not place projecting objects close to the flange.**

Contact with moving parts can cause injuries.

Personal protective equipment instructions.
- The plate shows the safety attire to wear before to activate the machine.
- Put on the required PPE before operating the unit.

THE USE OF PERSONAL PROTECTIVE EQUIPMENT IS A LEGAL REQUIREMENT.

⚠ 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.**

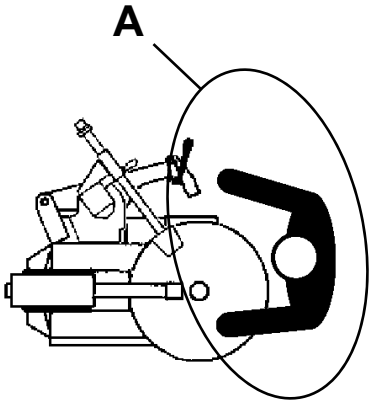
A mismatched tire and rim will explode causing death or serious personal injury

⚠ 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.



1.0 Safety

The safety precautions must be completely understood and observed by every operator.

THE OPERATOR MUST STAY NEAR 'THE MACHINE, IN GOOD POSITION OF WORK, AT THE COMMAND UNIT SIDE (A).

ONLY THE OPERATOR MAY ACCESS THE WORK AREA.

THE USE OF THIS DEVICE IS ALLOWED ONLY TO PERSONNEL DULY TRAINED BY AN AUTHORIZED DEALER.

ANY TAMPERING WITH OR MODIFICATION OF THIS DEVICE OR ITS PARTS OR COMPONENTS NOT PREVIOUSLY AUTHORIZED BY THE MANUFACTURER WAIVE THE MANUFACTURER FROM ANY DAMAGE RESULTING FROM OR RELATED TO THE ABOVE-MENTIONED TAMPERINGS.

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.

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

THIS DEVICE IS DESIGNED TO ACCEPT ORIGINAL SPARE PARTS AND ACCESSORIES ONLY.

CHECK FOR POSSIBLE DANGEROUS CONDITIONS DURING THE OPERATION OF THE MACHINE. IN SUCH A CASE STOP THE MACHINE IMMEDIATELY.

IN CASE OF DEFECTIVE FUNCTIONING, STOP THE MACHINE AND CALL THE AUTHORIZED DISTRIBUTOR FOR ASSISTANCE.

DURING USE AND MAINTENANCE OF THE MACHINE IT IS MANDATORY TO COMPLY WITH ALL LAWS AND REGULATIONS FOR ACCIDENT PREVENTION.

THE ELECTRICAL SYSTEM MUST HAVE AN EARTH CABLE AMD THE MACHINE EARTH CABLE (YELLOW/ GREEN) MUST BE CONNECTED TO THE EARTH CABLE OF THE MAINS SUPPLY

BEFORE PERFORMING ANY MAINTENANCE OR REPAIRS THE MACHINE MUST BE DISCONNECTED FROM THE AIR AND ELECTRICAL SUPPLY.

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.

MAINTAIN ALL ELECTRIC CABLES IN GOOD REPAIR.

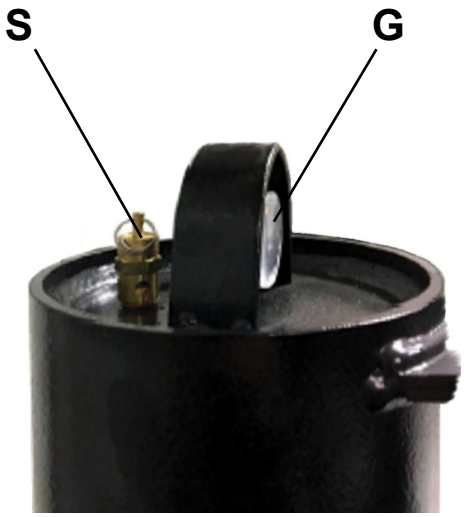
KEEP WORKING AREA TIDY. CLUTTERED AREAS INVITE ACCIDENTS.

AVOID DANGEROUS ENVIRONMENTS. DON'T USE PNEUMATIC OR ELECTRICAL EQUIPMENT IN DAMP OR WET LOCATIONS, OR EXPOSE THEM TO RAIN.

KEEP THE WORK AREA WELL LIGHTED.

ALL ELECTRICAL CONNECTIONS MUST BE PERFORMED BY A LICENSED TECHNICIAN.

ALL SERVICE MUST BE PERFORMED BY AN AUTHORIZED SERVICE TECHNICIAN.



1-1

SAFETY DEVICES
This machine has several protectors made of plastic to prevent compression or crushing hazards.

- An inflation pressure limiting device prevents explosion hazard due to tire overinflation.
- The rotation speed of the turntable has been limited to prevent dragging hazards or entrapping hazards.

Fig. 1-1
- A pressure gauge **G** and a safety valve **S** in the upper side of the air tank column allow pressure checking and avoid overpressures.

KEEP SAFETY DEVICES IN PLACE AND IN WORKING ORDER.

1.1 Format of this Manual

This manual contains text styles which make you pay extra attention:

Note: Suggestion or explanation.

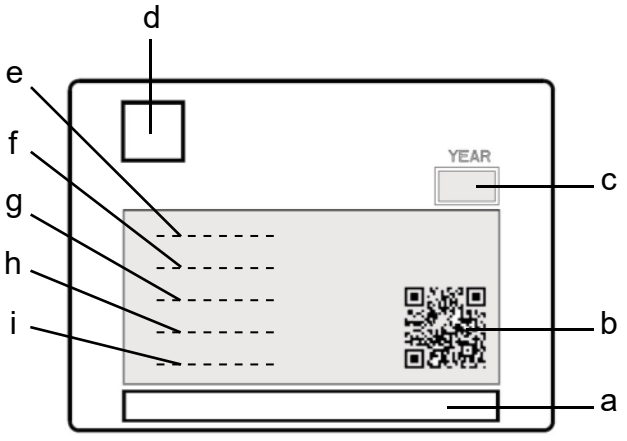
CAUTION: STRESSES THAT THE FOLLOWING ACTION MAY CAUSE DAMAGE TO THE UNIT OR OBJECTS ATTACHED TO IT.

⚠ STRESSES THAT THE FOLLOWING ACTION MAY CAUSE (SEVERE) INJURY TO THE OPERATOR OR OTHERS.

- Bulleted list:
- indicates that action must be taken by the operator before being able to go to the next step in the sequence.

A dotted line around the number of the figure indicates that this is a duplicate from a previous section.

0.0-0

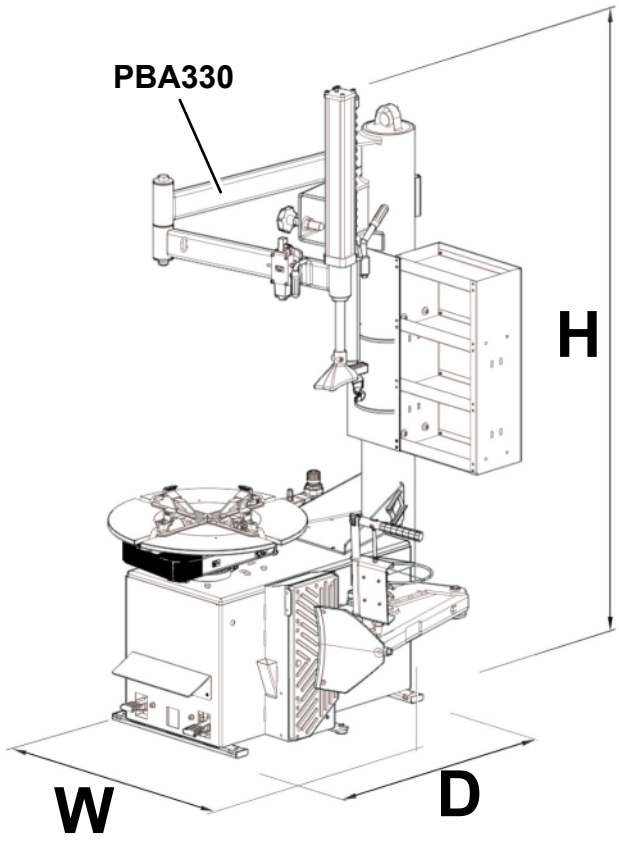


1.2-1

1.2 Label of the constructor

A marking label attached to the machine shows the following data **Fig. 1.2-1**:

a Name and address of the manufacturer (if present)
b QR Code
c Year of manufacture
d Compliance marking (if present)
e Model
f Serial number
g Weight
h Electric specifications (volt, ph, Hz, kW, A)
i Air pressure required (bar, PSI, KPa)
j Acoustic pressure



2-1

2.0 Specifications

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

Weight	695 lbs (315 Kg)
Air pressure required	psi 116-174 (8-12 bar)
Bead breaker force	lbs 2700 (12 kN)
Max. wheel diameter	50” (mm 1270)
Max. wheel width	15” (mm 380)

(**1 Speed Motor**)

Electrical Specifications:	115 Vac, 1Ph, 60Hz, 12A
Max torque	lbs•ft 738 (1000 Nm)
Installed power	0.75 kW (1 Hp)
Turntable rotation speed:	7 rpm

(**2 Speed Motor**)

Electrical Specifications:	230 Vac, 1Ph, 50/60 Hz, 14A
Max torque	lbs•ft 885 (1200 Nm)
Installed power	0.9 kW (1.2 Hp)
Turntable rotation speed:	7-18 rpm

Rim diam. outside locking	10”-24”
Rim diam. inside locking	12”-24”
Motorcycle wheels with adapters (*)	12”-26”
ATV wheels with adapters (*)	8”-23”
Car wheels Extensions (*)	17”-28”

Acoustic pressure	<70 dBA
Acoustic pressure - bead seater	120 dBA

Dimensions with PBA330:
Fig. 2.1

W	min 45” ÷ max 75” (min 1145 ÷ max 1900 mm)
D	min 45.4” ÷ max 49.3” (min 1153 ÷ max 1253 mm)
H	87” (2200 mm)

2.1 Conditions

During use or prolonged storage, conditions must never be outside:

Temperature range	0-50 °C
Humidity range	10-90 %, without condensation

(*) by using the optional device

3.0 Introduction

Congratulations on purchasing the pneumatic-electric tire changer: ***HOFMANN monty 1685***.
This tire changer is designed for ease of operation, safe handling of rims, reliability and speed.
With a minimum of maintenance and care your tIre changer will provide many years of trouble-free operation.
Instructions on use, maintenance and operational requirements of the machine are covered in this manual.

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

Application.
The tire changer is intended to be used as a device for manually demounting, mounting and beading car and motorcycle tires mounted on one-piece rims with the following specifications:

Maximun tire diam.: 50” (mm 1270)
Maximum tire width: 15” (380 mm)

This device must be used in the application for which it is specifically designed.
Any other use shall be considered as improper and thus not unreasonable.
The manufacturer shall not be considered liable for possible damage caused by improper, wrong or unreasonable use.

Manuals to the unit

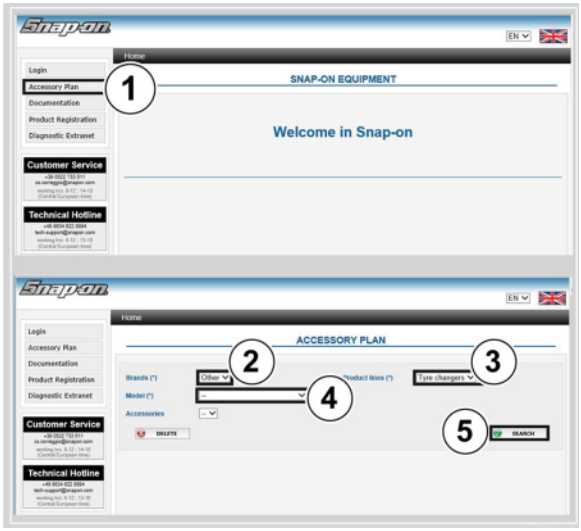
- Quick Start
  EAZ0090G03A

- Spare Parts Manual
  TEEWH792A7 - Service Manual
  Manual for use by service personnel only

- Operator’s Manual
  ZEEWH792A06 (Chapter 1 – 8)
  The operator must be familiar with it.

Installation instructions
see Chapter 9 (Appendices)

- Accessory Plan (Plan des accessoires).
  TEEWH792A5 (AP *monty 1685*)



3.1-1

3.1 Accessories

A series of accessories are usually available for the machine. All accessories are indicated on the website: http://service.snapon-equipment.net/

Fig. 3.1-1

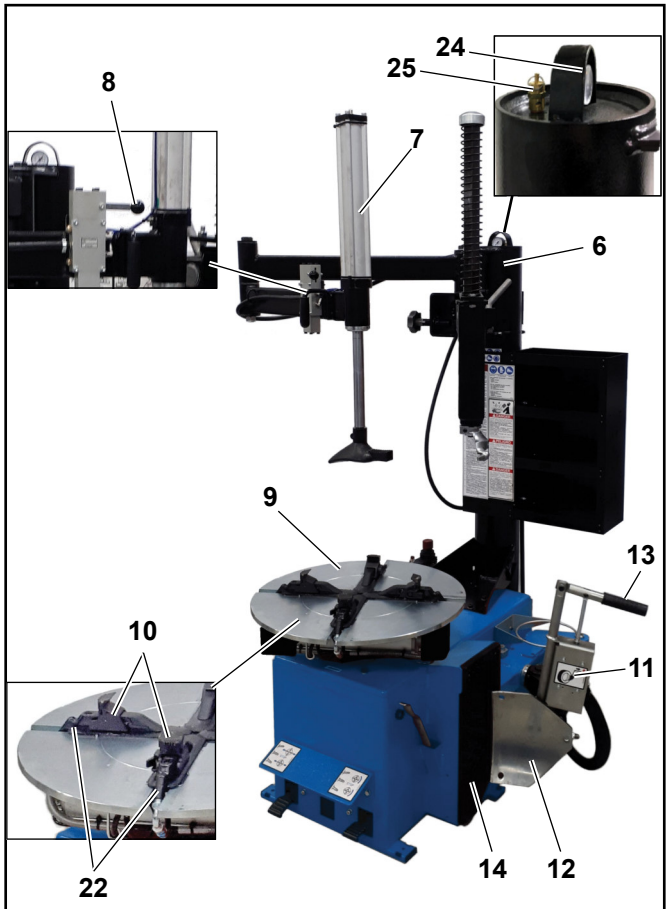
After accessing the website, proceed as follows:

- Select **Accessory Plan (1)**.
- Select the reference brand in the field

Brands (2).

- Select the Type of product "*Tyre changers*" in the field **Product lines (3)**.
- Open the field **Model (4)** and select the specific machine model among the ones in the list.
- Enter **"SEARCH" (5)** to display the list of available accessories.

- Use the codes in the list for the purchase orders.



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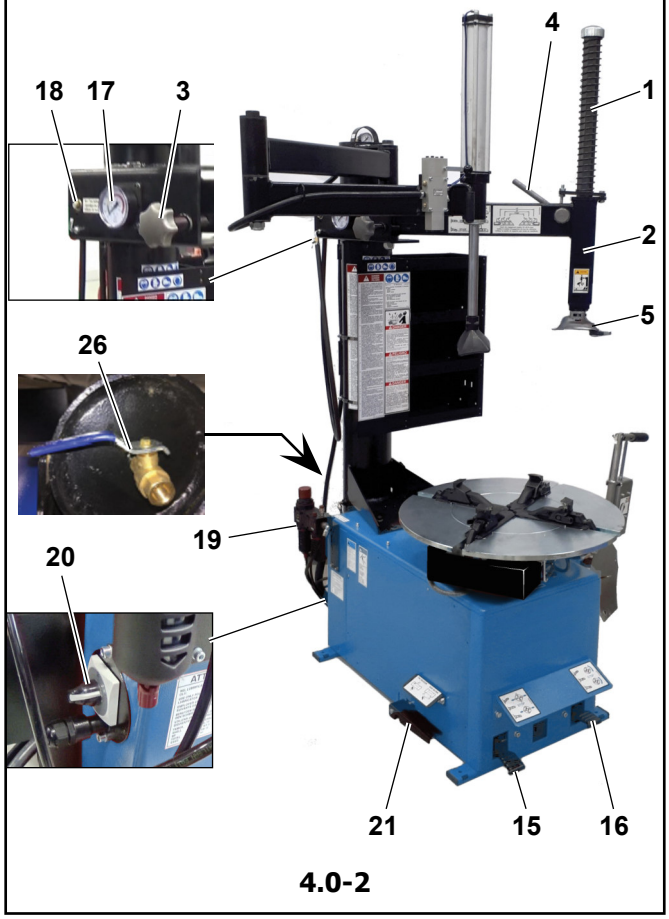


4.0-2

4.0 Layout

Refer to Figure 4.0-1 / 4.0-2.
Functional description of the unit:

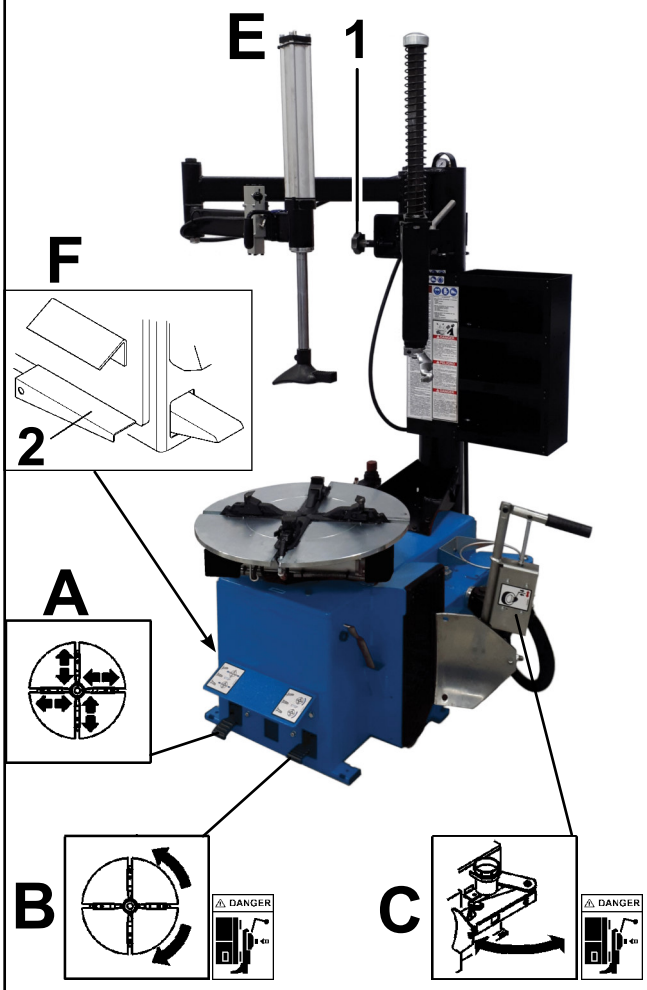
1. Vertical slide
2. Swing arm
3. Adjustment knob
4. Vertical bar Lock lever
5. Mount/demount tool or head
6. Tower or column with air tank
7. PBA330 Bead Assist
8. Bead Assist operating lever
9. Turntable
10. Jaw or clamp
11. Bead breaker arm
12. Bead breaker blade
13. Bead breaker operating lever
14. Bead breaker pad
15. Clamping jaw movement pedal
16. Turntable rotation pedal
17. Inflation gauge
18. Deflation button
19. Filter - regulator - lubricator unit
20. ON-OFF functionality (230V only) *
21. Anti-drag protection

Tubeless system devices:

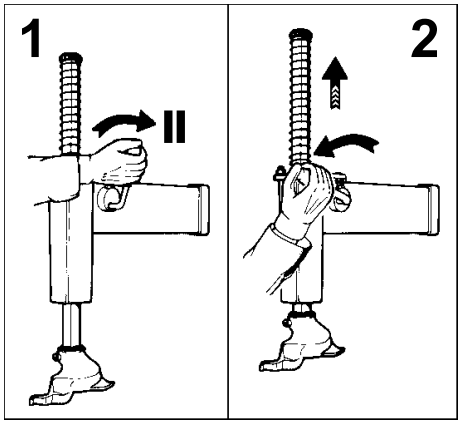
22. Bead seater/inflator pedal
23. Air Jets
24. Air tank manomter
25. Air tank Safety valve
26. Air tank Drain valve

* When the unit does not have a power switch on and off, disconnect and reconnect the power plug.

CAUTION: WE RECOMMEND SWITCHING OFF THE UNIT AT THE END OF EACH WORKING DAY.



4.1-1



4.1-2

4.1 Controls

⚠ WHEN OPERATING THE INFLATOR IT IS MANDATORY TO WEAR EAR PROTECTORS AND SAFETY GLASSES TO PREVENT CONTAMINATION FROM NOISE, DUST AND CHIPS BLOWN BY THE AIR JETS.

Before operating the machine ensure that you have well understood the operation and function of all the controls (Fig. 4.1-1).

A.

- Press down and release, WITH LEFT FOOT, the first 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.

B.

- Press down and hold, WITH RIGHT FOOT, the first pedal from the right: the turntable turns clockwise. Lift the pedal and the turntable turns counter-clockwise.

⚠ DANGER OF LEG TRAPPING

C.

- Press down the lever to open the bead breaker arm.
- Release the lever to stop the arm.
- Pull the lever upwards to close the bead breaker arm: by doing this the arm will move towards the machine.

D.

- The lock handle enable the mount/demount tool to be locked in the working position. Lower the lock handle (**1**, Fig. 4.1-2) to unlock the vertical slide, lift the handle to lock (**2**, Fig. 4.1-2).

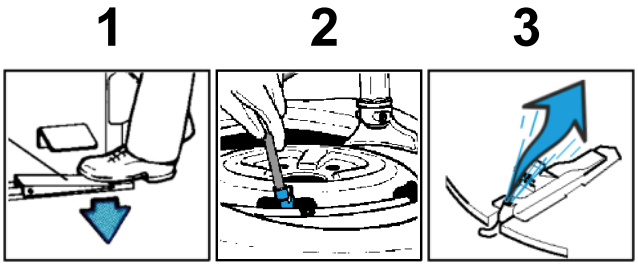
E.

- Turn the adjustment knob (**1**, Fig. 4.1-1) for positioning mount/demount head according to rim diameter.

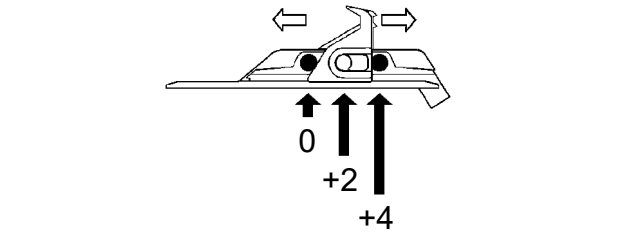
For machines without Tubeless wheel system:

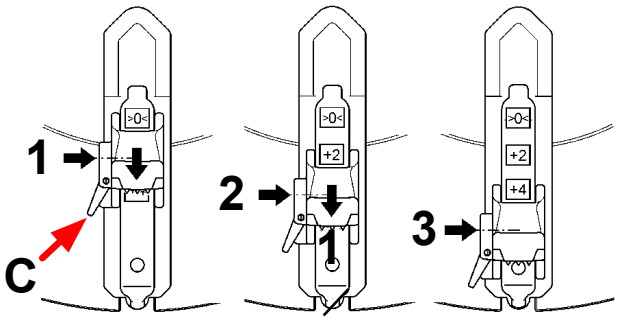
F.

- Press bead seater/inflator pedal on left side of the machine (**2**, Fig. 4.1-1): air will come from inflation hose end only.

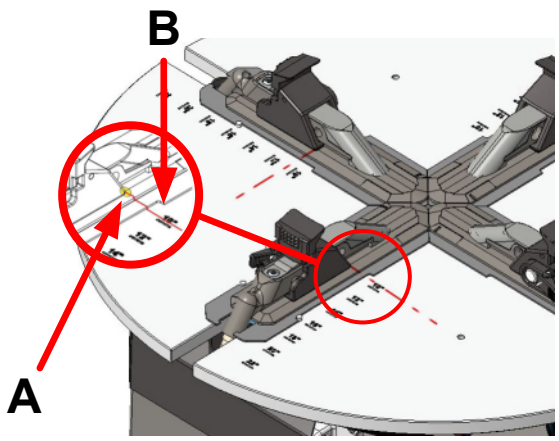


4.1-3





4.1-4



4.1-5

Only for Tubeless wheel models:

⚠ WHEN OPERATING THE BEADING DEVICE IT IS MANDATORY TO WEAR EAR PROTECTORS AND SAFETY GLASSES TO PREVENT CONTAMINATION FROM NOISE, DUST AND CHIPS BLOWN BY THE AIR JETS.

⚠ DANGER OF TIRE EXPLOSION.

Fig. 4.1-3

F1. Press bead seater/inflator pedal (**1**) on left side of the machine half way down: air will come from inflation hose end only (**2**).

F2. Press bead-seater pedal (**1**) down swiftly to get air blast from the turntable jets (**3**).

Note: Air simultaneously continues to exit the hose (**2**) connected to the tire.

⚠ ONCE BEADING IS COMPLETE, IMMEDIATELY STOP INTRODUCING AIR.

Presetting of clamping jaws:

N.B.: Turntable capacity can be changed before pedal control.

Fig. 4.1-4

The turntable jaws can be positioned in three different ways (**1**, **2** or **3**).
Push the lever (**C**) on the left side of each jaw and shift at the same each one (0/+2/+4").

⚠ LOOK FOR PROPER INSERTION OF THE PIN.

⚠ CAUTION! MAKE SURE ALL FOUR CLAMPING JAWS ARE MOUNTED IDENTICALLY (1, 2 OR 3). OTHERWISE THE RIM MAY COME LOOSE AND INJURE THE OPERATOR!

- Position **1**; retracted position necessary for small diameter rims.
- Position **2** and **3**; extended position necessary for largest diameter rims.

Fig. 4.1-5

On the turntable you can read the opening diameter of the jaws, including position **1**, **2** or **3** (**Fig. 4.1-4**) of the clamping jaw. The diameter setting is always indicated by the end of the jaw (**A**) alligned with the mark (**B**) on the turntable.

5.0 Mounting and demounting. General precautions

CAUTION:

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 AFTER REMOVING ALL WHEEL-WEIGHTS INCLUDING 'TAPE WEIGHTS' INSIDE THE RIM.

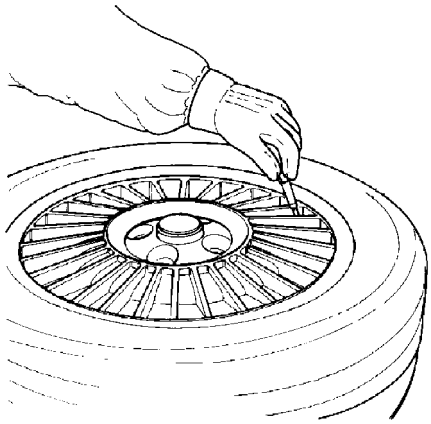
B- THE TIRE MUST BE CLEAN AND DRY, WITH NO DAMAGE TO THE BEAD AND THE CASING.

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

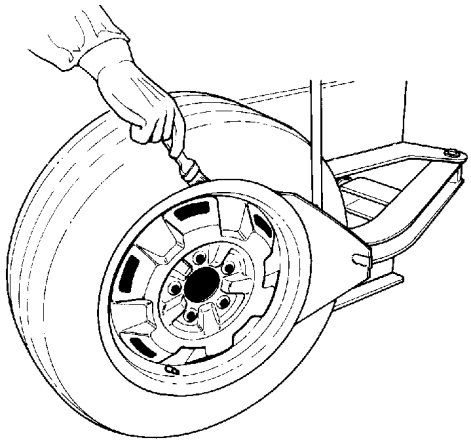
D- IF THE TIRE REQUIRES A TUBE, MAKE SURE THE TUBE IS DRY AND IN GOOD CONDITION.

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

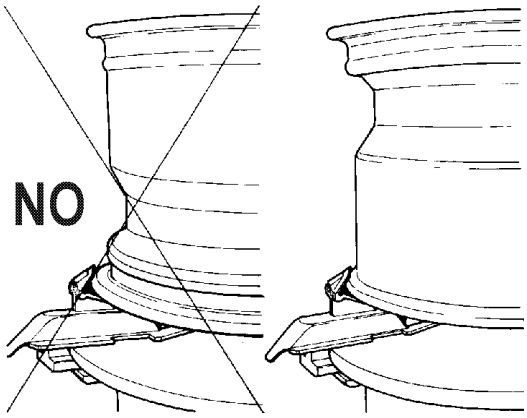
F- MAKE SURE THE TIRE IS THE CORRECT SIZE FOR THE RIM.



5.1-1



5.1-2



5.1-3

5.1 Demounting tubeless tires

- Remove all wheel-weights from the rim. Remove the valve stem or core and deflate the tire (Fig. 5.1-1).

- Break outer bead starting from opposite the valve position. lubricate the bead and rim with a tire lube only. Break inner bead. Do not hold the foot pedal depressed longer than necessary since this could damage the bead. Liberally lubricate bead and rim (Fig. 5.1-2).

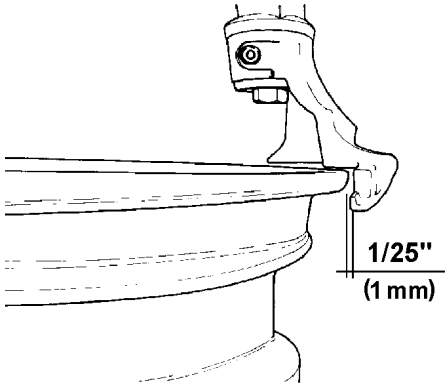
⚠ ON CARS WITH RUN FLAT TYRES WITH THE OPTIONAL LOW PRESSURE SENSOR INSTALLED, BREAK THE BEAD AT 90 DEGREES OFFSET FROM THE VALVE STEM. DAMAGE TO THE WHEEL WILL RESULT IF THE BEAD IS BROKEN AT ANY OTHER POINT ON THE RIM.

Locking Rims

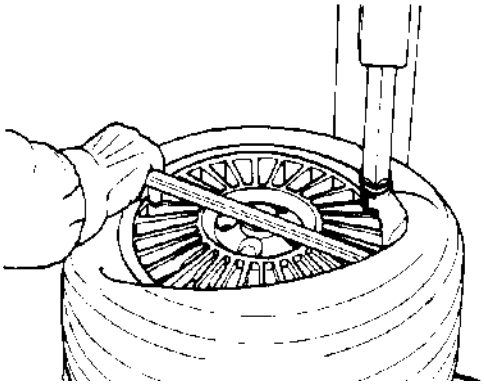
- Set the rim clamps to the proper position: retract clamps to clamp the wheel from the inside and expand clamps to clamp from the outside. When clamping small wheels (14” or smaller) from the outside, set the clamps at diameter nearly equal to the rim diameter, before placing the wheel on the clamps. This will avoid the risk of pinching the tire.

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

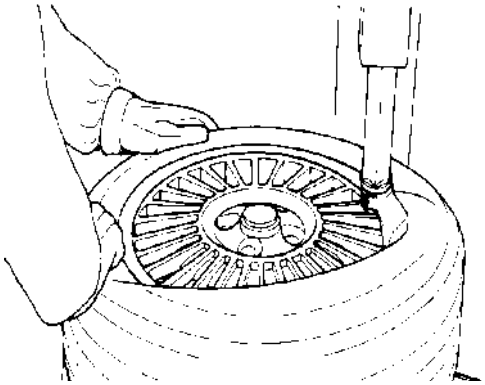
- Liberally lubricate bead and rim.
- Place the wheel **WITH DROP CENTER UPWARDS** (Fig. 5.1-3) on the turntable, and clamp in position.



5.1.4



5.1.5



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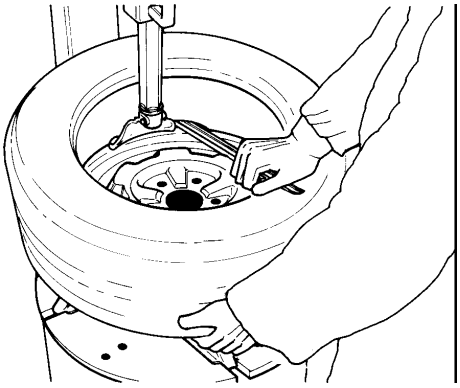


5.1.7

5.1.1 Removing the tires

BEFORE PROCEEDING WITH THE TYRE EXTRACTION, CHECK THAT BOTH BEADS ARE COMPLETELY BROKEN.

5.1.1.1 Head Positioning

Procedure:

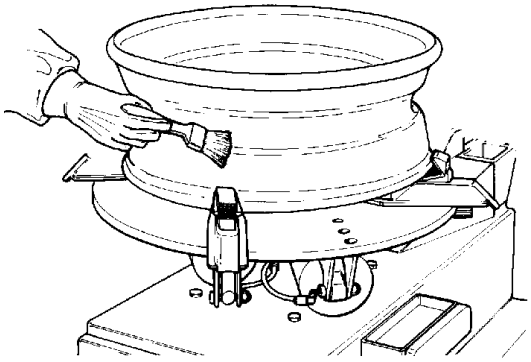
If necessary, adjust the mounting head as described in chapter 5.7.2.

- 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 1/25” (1 mm): this is necessary to avoid rim damage (Fig 5.1-4).

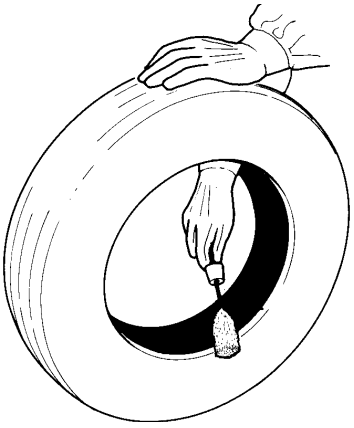
  Note: once the mount/demount head is positioned properly, matching wheels may be changed without having to reset the head.

  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, the plastic insert may be replaced by a steel roller also included in the standard equipment box. Follow the instructions included with the replacement parts.

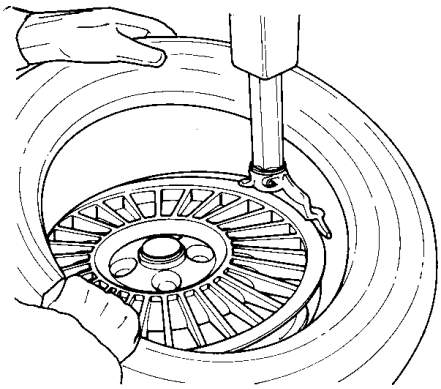
- Insert the bead lifting tool under the bead and over the support of the mount/demount tool. Lift the bead onto the mounting finger. To facilitate this operation, press with left hand on the bead in position diametrically opposite to that of the tool. If desired, the bead lifting tool can be removed after lifting the bead onto the finger (Fig. 5.1-5).
- 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.5.1-6).
- 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. 5.1-7). Move the swing arm aside and remove the tire.



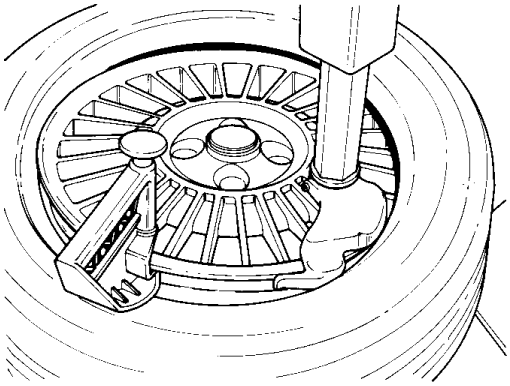
5.2-1



5.2-2



5.2-3



5.2-4

5.2 Mounting tubeless tyres

- Lubricate the entire rim surface (Fig. 5.2-1).Lubricate both beads, inside and outside, (Fig. 5.2-2).

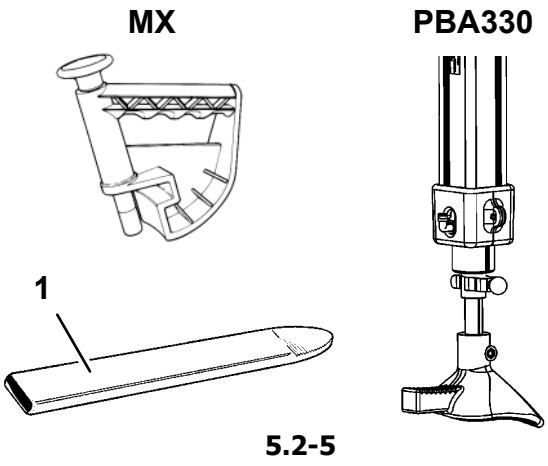
OBSERVE THE ROTATION DIRECTION OF THE TIRE, IF REQUIRED. SOME TIRES HAVE A COLOR DOT THAT MUST BE KEPT ON THE OUTSIDE OF THE WHEEL.

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

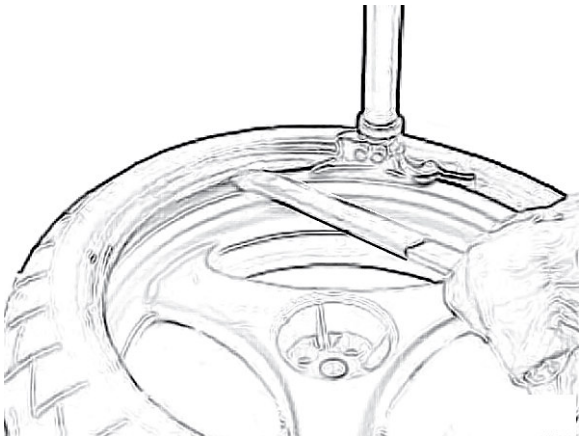
- Lock the rim on the turntable and rotate it to have the valve in 5 o'clock position. Place the tire to be mounted on the rim. Swing the mounting arm forward so that the mount/demount tool is in the working position. Engage the lower bead OVER the mounting wing and UNDER the mounting finger of the mounting tool. Turn the wheel clockwise and push the tire down into the drop center, opposite to the mount/demount head (Fig. 5.2-3).

- Mount the upper bead following the directions in section B (Fig. 5.2-4). With low profile tyres the "Bead depressor tool MX" (optional) can help to facilitate mounting of the top bead.

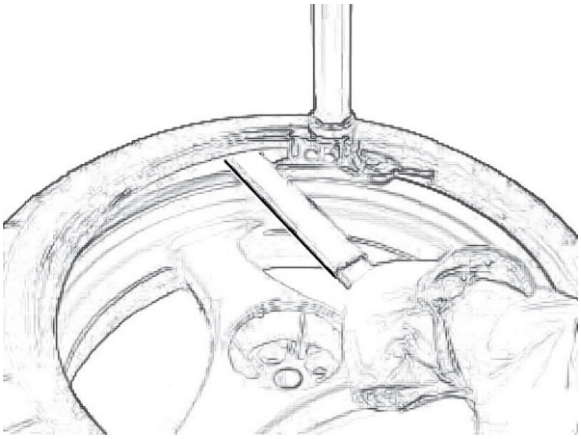
FOR NARROW SIDEWALLS, RUN FLATS, OR EXPECIALLY STIFF TIRES IT IS RECOMMENDED TO USE THE EASYMONT-PRO OPTIONAL ACCESSORY.



5.2-5



5.2-6



5.2-7

5.2.1 If the top tire bead is difficult to mount

Fig. 5.2-5

Option 1)

Use the Bead Assist **PBA330**.

Option 2)

Follow these instructions using the optional **bead clamp MX**.

A. After installing, the bottom bead insert the tire tool to the left of the bead head as shown (Fig. 5.2-6).

Nota: To protect decorative rims use protective sleeve (**1**, Fig. 5.2-5) on the lever (See the Accessories Plan).

B. Step on the foot pedal to rotate the turntable clockwise until the tire lever is tight against the bead head (Fig. 5.2-6).

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 MX or **PBA330** to hold the tire bead into the rim drop centre (Fig. 5.2.4).

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. 5.2-7).

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.

5.3 Beading the tires

Beading means the initial grip of the tire bead on the rim, in order to allow the inflation operations and subsequent settling in the seat on the rim.

Safety Precautions:

For safety reasons a quick-inflating valve preset to 4,5 bar is fitted upstream of the pressure gauge for the pedal-operated inflating device.

⚠ DO NOT USE THE TIRE CHANGER TO INFLATE TIRES.

COMPRESSED AIR DEVICES ON THE TIRE CHANGER ARE ONLY DESIGNED TO FACILITATE THE TUBELESS TIRE BEADING OPERATION.

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

⚠ THE OPERATOR MUST STAND CLEAR FROM THE WHEEL WHEN BEADING THE TIRE, AND PRESSURE MUST BE MONITORED FREQUENTLY TO AVOID EXCESSIVE PRESSURE.

⚠ BEFORE BEADING, CHECK THE CONDITION OF TIRE AND RIM.

⚠ CHECK FOR CORRECT SEALING BETWEEN THE VALVE AND THE FITTING AT THE END OF THE AIR HOSE. AN AIR LEAK CAN GIVE INCORRECT PRESSURE READINGS AND CREATE SAFETY HAZARDS

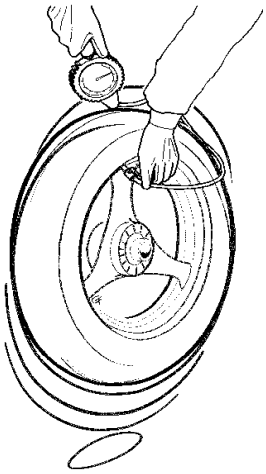
⚠ CHECK THAT THE READING ON THE PRESSURE GAUGE IS “ZERO” WHEN IT IS NOT IN USE.

⚠ THE COMPLETE SEATING THE BEAD ON THE RIM IS A VERY DANGEROUS STAGE OF THE TIRE MOUNTING PROCEDURE.

⚠ TO COMPLETE THE BEADING OPERATION AND INFLATE THE TIRE CORRECTLY, PLACE IT IN AN APPROPRIATE TYPE APPROVED CAGE.

⚠ A TIRE BURST, WHATEVER ITS CAUSE, CAN RESULT IN SERIOUS INJURY OR DEATH.

⚠ AVOID MOUNTING TIRES THAT ARE 1/2” SMALLER IN DIAMETER THAN THE RIM, DOING SO FAILS TO ENSURE THAT THE BEADS ARE SEALED PROPERLY IN THEIR SEATS: THIS COULD BE A SOURCE OF DANGER WHEN DRIVING.



5.3-1

5.3-2

⚠ WHEN OPERATING THE BEADING DEVICE IT IS COMPULSORY TO WEAR EAR DEFENDERS TO PROTECTAGAINST NOISE AND SAFETY GOGGLES TO PREVENT ANY CONTAMINATION BY DUST AND OTHER IMPURITIES BLOWN BY THE AIR JETS.

Beading Tubeless: tires

Perform the beading with the wheel blocked on the tire changer.

- Ensure that both the beads and the inside of the rim are thoroughly lubricated.
- Screw the valve insert.
- Connect the compressed air hose to the valve (**2,Figure 5.3-2**).
- Operate the compressed air to ensure the beads are seated.

⚠ STOP THE COMPRESSED AIR AS SOON AS THE BEADS GRIP THE RIM WELL.

- Place the wheel in a type approved cage to finish inflating and completely settle the beads in their seats on the rim.

Beading tubeless tires is sometimes difficult because the beads may be very close together (e.g. owing to incorrect stacking) and so fail to seal against the rim properly.In this event it may be helpful to place the wheel on the floor in a vertical position and ‘bounce’ it while introducing air with the pedal control or with the inflator gauge (**Figura 5.3-1**).

Beading with the tubeless device:

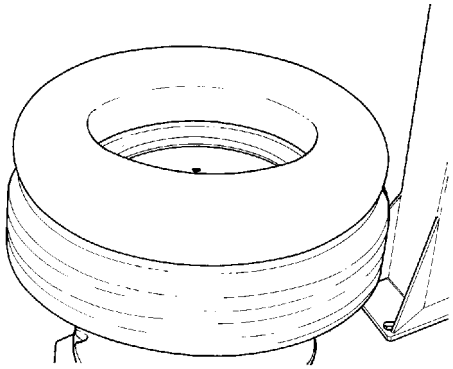
The machine can be provided with a GP device, necessary for beading tubeless tires.

(**Figure 5.3-2**)

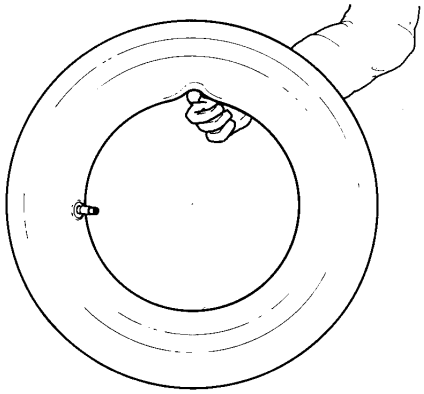
- If possible lock the wheel from inside. Outside locking reduces efficiency of the bead seater.
- Move the tool close to the rim and lock it (**1**).
- Connect the compressed air hose to the valve (**2**).
- Lift the tire with both hands so that upper bead is sealed to the rim edge.
- Press the inflation 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.

⚠ STOP THE COMPRESSED AIR AS SOON AS THE BEADS GRIP THE RIM WELL.

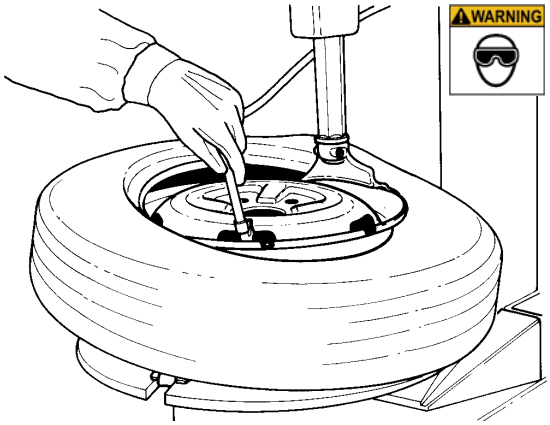
- Place the wheel in a type approved cage to finish inflating and completely settle the beads in their seats on the rim.



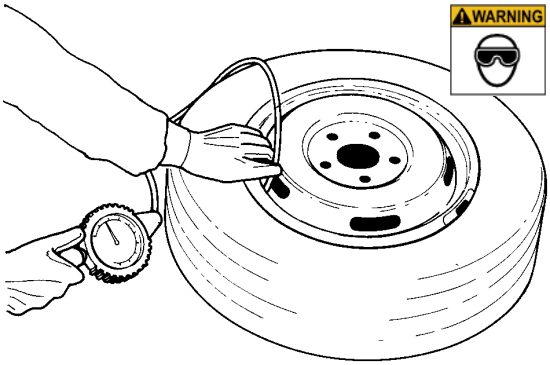
5.5-1



5.5-2



5.5-3



5.6-1

5.4 Demounting tube-type tires

- To demount the tire operate as described for tubeless tires in section 5.1.A through section 5.1

In this case the valve cannot be replaced because it is part of the tube.

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

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

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 5.1.

5.5 Mounting tube-type tires

- Proceed as described in section 5.2. Do NOT lubricate the tube. Talc can be used to assist with the tube positioning.
- Mount the valve core and place the tube onto the tire to confirm that the tube is of the correct size (Fig. 5.5-1).
- Inflate the tube slightly: if held with the index finger it should bend a little (Fig. 5.5-2).
- Mount the first bead as described in section 5.2. Put the tube inside the tire and secure the valve with the chuck of the inflating hose (Fig. 5.5-3). Mount the top bead following the directions above.

5.6 Inflating tube-type tires

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 tire (Fig. 5.6-1).
Ensure that the tire is correctly centered on the rim.

⚠ STOP THE COMPRESSED AIR AS SOON AS THE BEADS GRIP THE RIM WELL.

- Place the wheel in a type approved cage to finish inflating and completely settle the beads in their seats on the rim.

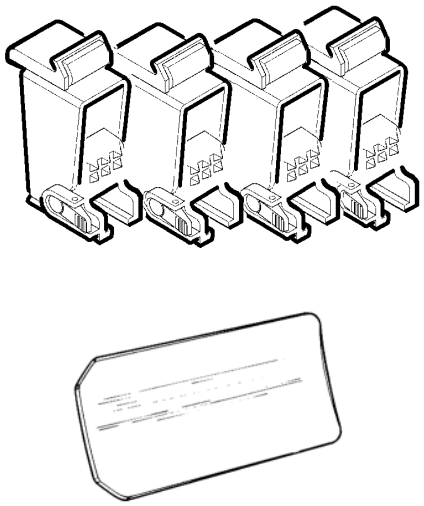
5.7 Mounting and Demounting Motorcycle tires

To mount and demount motorcycle tires it is necessary to utilize the optional motorcycle adaptors (4 piece) and Motorcycle bead breaker blade (See the Accessories Plan).

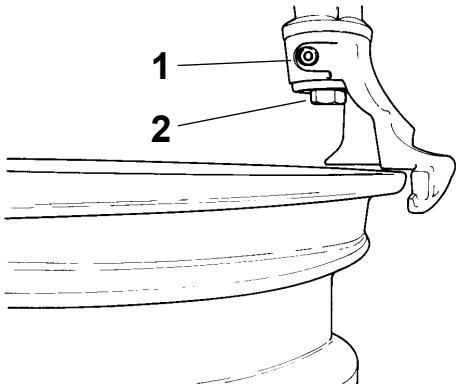
The bead-breaking, mounting and demounting technique is the same as per car tires.

MOTORCYCLE RIMS MUST ALWAYS BE CLAMPED FROM THE OUTSIDE.

AIR PRESSURE TO THE TIRE CHANGER MUST NOT EXCED 145 PSI (10 BAR) WHEN CLAMPING MOTORCYCLE RIMS.



5.7.1 Mounting head replacement

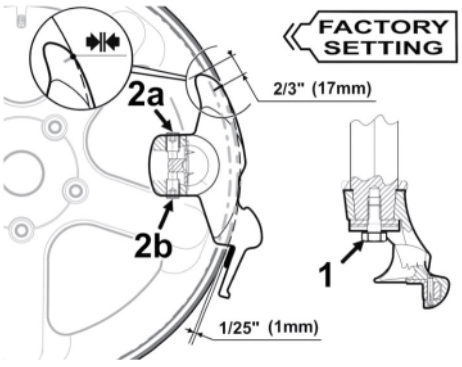


5.7-1

To mount and demount motorcycle tires the specific head must be installed.

- Loosen the lateral screw (**1**, Fig. 5.7-1).
- Unscrew the central screw (**2**, Fig. 5.7-1).
- Remove the head and replace it.
- Adjust the position of the head with the two opposite lateral screws (**1**, Fig. 5.7-1).
- Tighten the screw (**2**, Fig. 5.7-1).

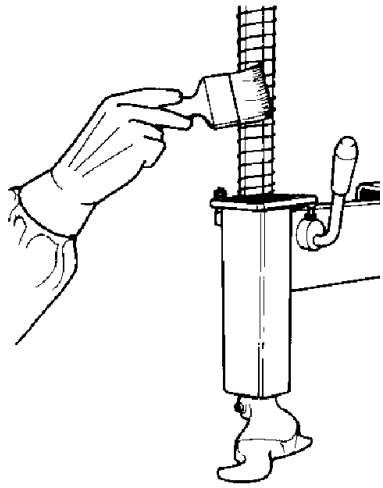
5.7.2 Tool angle adjustment



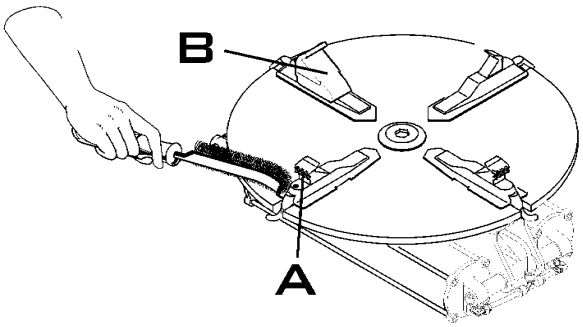
5.7-2

The tool is adjusted at the factory with an optimal angle for most wheels used today. However, the angle can be optimised for wheels with a diameter that differs considerably from the standard.
To adjust the tool angle, proceed as follows:

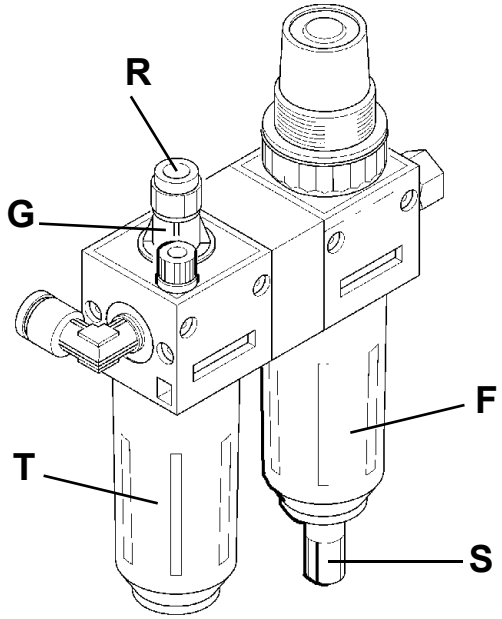
1. Mount the rim for which the adjustment is required.
2. Unscrew the lower screw (**1**, Fig. 5.7-2).
3. Adjust the tool with the screws shown (**2a** and **2b,** Fig). 5.7-2). Unscrew the screw (**2a** or **2b**, Fig. 5.7-2) to rotate the tool, respectively, clockwise or counterclockwise.
4. Screw in the opposite screw to block the tool in the desired angular position.
5. Tighten the lower screw (**1**, Fig. 5.7-2) with a torque of 35 Nm.



6-1



6-2



6-3

6.0 Maintenance

⚠ 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. 6-1).

B. Periodically clean the turntable with a nonflammable liquid detergent, dry and lubricate the sliding surface of the clamps with oil.

C. Clean the teeth of the clamps (A) with a wire brush, check the plastic rim protectors (B) and replace if worn (Fig. 6-2).

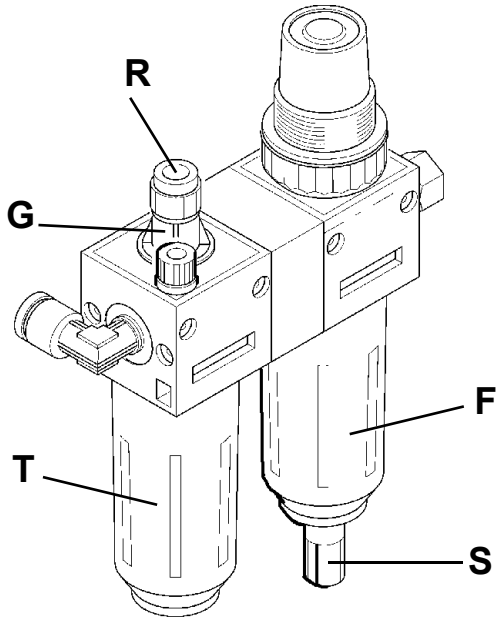
D. Periodically wash all plastic parts with cold water and soap or mild chemical detergent.

E. Periodically lubricate rods of air cylinders with oil.

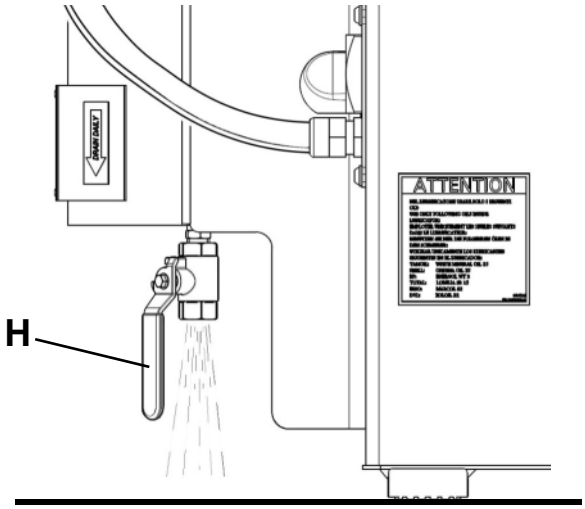
F. Peridically replaced the plastic insert inside mount/ demount tool.

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

H. Check and discharge the water every day from air filter/ water separator '**F**'. Do this by pulling down the fitting "**S**" (Fig. 6-3).



6-3



6-4

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, and add oil as needed. Make sure seals are in place when repositioning the cup.

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

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

Suggested oils for the filter/lubricator unit:
WHITE MINERAL OIL: 15 cSt

TAMOIL:	WHITE MINERAL OIL 15
SHELL:	ONDINA OIL 15
BP:	ENERGOL WT3
TOTAL:	LOBELIA SB 15
ESSO:	MARCOL 82

J. Periodically check the lubricator efficiency. One oil drop (**G**, Fig. 6.5) every 4-5 operations of the bead breaker indicates that the correct amount of oil is being dispersed in the system.
If necessary adjust the oil flow with screw (**R**, Fig.6-3).

K. In the machine equipped with a beading unit for tubeless tires, it is mandatory to drain condensation from the tank daily.

⚠ WEAR SAFETY GLASSES BEFORE OPERATING THE VALVE.

- Turn the handle “**H**” of the valve (Fig. 6-4) placed in the lower side of the column.

6.1 Storage

In case the machine is not to be used for a long period of time (6 months or more) it is necessary to disconnect all power sources, discharge the bead seater tank (only GP version), protect all parts that may be damaged, protect the air hoses that may be damaged by the drying process. When putting the machine back in operation, check first the condition of all previously protected parts, and check for correct functioning of all devices before using the machine again.

7.0 Trouble shooting

If a problem with the pneumatic electric tire changer, proceed in the following order to solve the problem:

1. Rethink the last steps taken.
   Did you work according to the manual?
   Did the machine work as described and expected?

2. Check the unit according to the list in this chapter.

3. Call your local sales agent for technical assistance.

The format of this section is:
Problem
1. Possible cause #1
- Possible solution(s)
2. Possible cause #2
- Possible solution(s)

When depressing the turntable rotation pedal the machine will not work.
1. No electric power.
- Check that the electric plug is correctly fitted to the socket and that the electric power is on.
2. Switch or motor short circuited.
- Check that the electrical requirements of the machine are the same as the supply.
- Call the authorized service center for assistance.

The switch pedal does not return to neutral position.
1. Switch spring is broken.
- Lift the pedal to neutral position.
- Disconnect the machine from electric and air supply.
- Call the authorized service center for assistance.

Turntable jaws pedal.
2. Valve spools dry.
- Check lubricator efficiency and oil level.

Bead breaker cylinder lacks power.
1. Low air pressure.
- Clean valve.
- Check air pressure.
2. Cylinder seals worn.
- Call the authorized service center for assistance.

Turntable does not hold the rim.

1. Jaws are dirty.
- Clean jaw teeth.

2. Turntable dirty.
- Clean and lubricate turntable.

3. Low air pressure.
- Check air pressure

4. Jaw teeth worn out.
- Check jaws condition.
- Call the authorized service center for assistance

Machine damages rims.

1. Plastic insert in mount/de-mount tool worn out.
- Replace the plastic insert in the mount/demount tool.

2. Plastic protector in jaws worn out.
- Replace plastic protector in jaws.

8.0 Disposing of the unit

To dispose of the equipment at the end of its life, contact the reseller for a quote or for the regulations on disposal which apply to the unit.

This symbol indicates that separate collection of waste electrical and electronic equipment is mandatory for scrapping.

8.1 Instructions for disposal

For electrical and electronic equipment European directive 2002/95/EC, 2002/96/CE and 2003/108/EC (RAEE)

At the time of disposal, at the end of the lifetime of this equipment, you must:

1. Render the machine inoperative, remove the plug and cut off the power supply cable close to where it comes out of the machine.

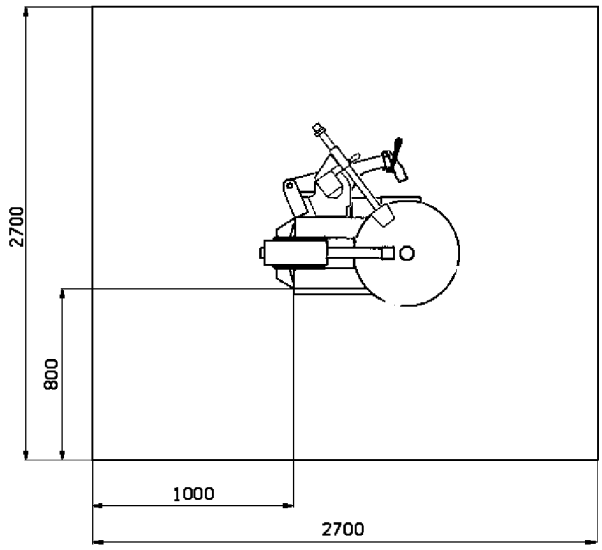
2. DO NOT dispose of the equipment as urban waste and recycle it, by taking the materials to suitable recycling centres.

3. Contact the reseller for the closest authorised recycling centres for the disposal or for the collection of old equipment when purchasing new equipment.

4. Stick to the standards for correct waste management, to prevent potential effects on the environment and human health. Unauthorised disposal will result in administrative sanctions for the offenders.

9.0 Appendices: Installation Instructions

This chapter contains additional information about the unit.
If reference is made to the exact configuration of the unit, please note that the exact configuration may be different in your country. Consult the order confirmation for details.



i-1

9.i. Installation requirements

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

Install the machine in a covered and dry area.
The installation of the machine requires a free space of at least 106”x106” (270x270cm) (Fig.i-1).

Make sure that from the operating position the user can see all of the machine and the surrounding area.

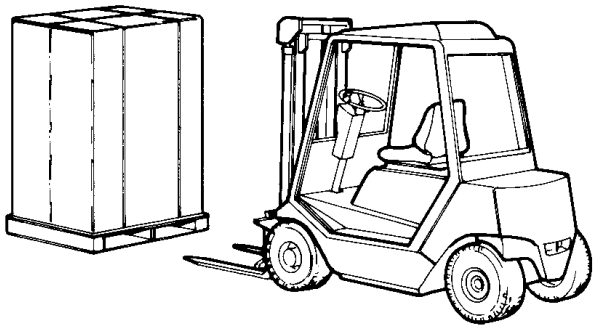
The operator shall forbid, in such an area, the presence of non authorized persons and of objects which may create possible hazards.

The machine shall be installed on a horizontal floor preferably even. Do not install the machine on a sinking or irregular floor.

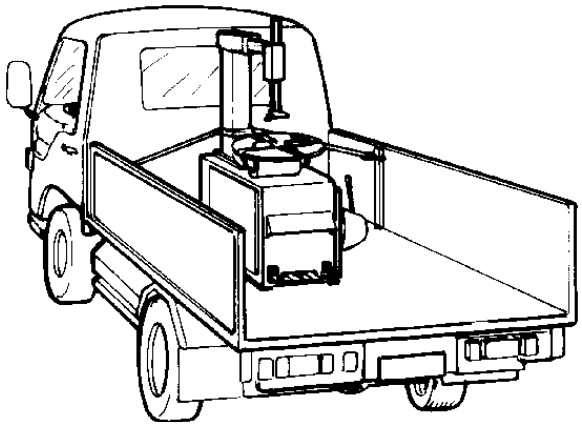
If the machine is installed on a raised floor, the floor must have a capacity of at least 110lbsxsqft (5000 N/m² o 500 kg/m²). The machine must be secured to the floor through the holes provided in the cabinet.

Expansion screws 12x120mm shall be used.
Drill 12mm holes in the floor flush with the holes provided in the cabinet.

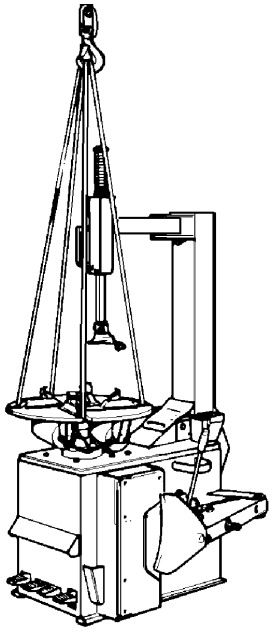
Place the nogs into the holes drilled in the floor and move the machine so that the holes of the cabinet are flush with the holes in the floor. Tighten the screws at 51 ftxlb (70 Nm).



ii-1



ii-2



ii-3

9.ii Carriage - Uncrating - Moving the machine

Carriage instructions

The machine is crated in a corrugated box of appropriate strength. The box is mounted on a pallet.
Handling of the machine must be made with an appropriate lifting device (fork lift) (Fig.ii-1).
The machine can be alternatively mounted on the pallet with the column assembled. In such a case the machine must be anchored to the transportation vehicle with a belt of appropriate strength rolled around the column (Fig.ii-2).

Uncrating instructions

Uncrate the machine paying attention when cutting the plastic straps or during any other operation which may be hazardous.
After removing the carton check for any visible damage to the machine and its components.
In case of doubt call qualified personnel for assistance.
The packing materials (plastic bags, polystyrene, nails, screws, wood etc.) must be properly disposed of. Place the above mentioned materials into a trash container and dispose per local regulations.

⚠ ALWAYS WEAR GLOVES WHEN UNCRATING THE MACHINE TO PREVENT SCRATCHES OR ABRASIONS DUE TO CONTACT WITH PACKING MATERIALS.

Moving the machine

In case the machine is to be moved from one working place to another, proceed as follows:

Disconnect the machine from the air and electric supply.

Remove from top of the cabinet and turntable all objects that may fall during displacement and create hazard.

Hold the machine as depicted in (Fig. ii-3). Use belts of a length of mm 3000 (10ft) and a capacity of kg 500 (1100 lbs). Do not use metal ropes to lift the machine.

9.iii Installation procedures

Electric installation

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

Check on the plate of the machine that the electrical specifications of the power source are the same as the machine.
The machine, depending on the version, may require:

115V AC +/-10%, 1 phase, 50/60Hz, 12A
or
230V AC +/-10%, 1 phase, 50/60Hz, 14A

Electrical specifications are clearly marked on a label at the end of the electric cable.
Before connecting the machine to the power source check that the power supply has an efficient earthing system.
Connect the electric cable of the machine with an approved plug.

Note: The outlet installation must be verified by a licensed electrician before connecting the tire changer.

Note: The yellow/green wire in the cable is the earth wire. Never connect the earth wire to a live terminal.

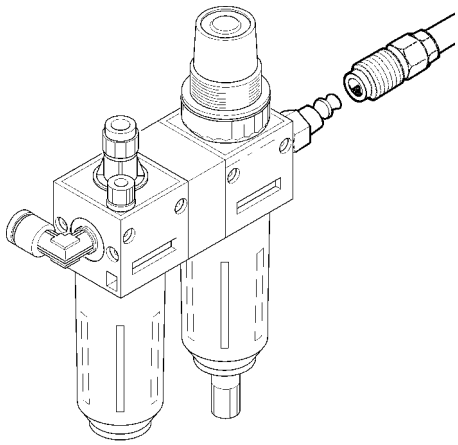
Check that the power supply has an automatic circuit breaker with a differential circuit rated at 30 mA.
The electric motor operates in a wide voltage range (plus or minus 10%) and frequency range (60 Hz) and has a class of insulation suitable for hot and moist climates.

Pneumatic installation

⚠ THE AIR INSTALLATION MUST BE PERFORMED ONLY BY LICENSED PERSONNEL.

⚠ BEFORE CONNECTING THE MACHINE TO THE AIR SUPPLY BE SURE THAT NOTHING IS LEFT ON THE TURNTABLE AREA (TOOLS,ETC).

The machine requires an air pressure of 116 - 174 psi (8-12 bar), as marked on the plate of the machine and on a sticker attached to the cabinet next to the air inlet.
Ensure that the line pressure is within the limits required by the machine.
If the air pressure is lower than the minimum required of 116 psi (8 bar) the clamping power of the turntable and the bead breaker power may be insufficient for certain tIres.



iii-1

If the air pressure exceeds 174 psi (12 bar) 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 to reduce the amount of water at the air inlet.
Connect the machine to the air supply with a rubber hose (rated for the pressure) with an inside diameter of 1/4" (6 mm). A ¼" NPT fitting is provided at the air inlet (Fig. iii-1).

Pneumatic hose connection check

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

- In case of installation of an air-filter and lubricator, check correct functioning.

9.iv Instructing the operator

(Following applies only if a unit is installed by a service Technician)

- Show the operator how to switch the unit on and off.

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