

JohnBean™

Operator's Manual

Electro Hydraulic Tire Changer



T 8010 TR

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SP	Spare Parts Booklet Liste des pièces détachées Ersatzteilliste	TEEWH526A3	ENG-FRA-DEU ITA-SPA-POR

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EC	EC DECLARATION DECLARATION CE CE KONFORMITÄTSERKLÄRUNG
WD	Wiring Diagram Schéma électrique Schaltplan
BD	Block Diagram Schéma à blocs Blockschema

EC	DICHIARAZIONE CE DECLARACIÓN CE DECLARAÇÃO CE
WD	Schema Elettrico Esquema Eléctrico Esquema Eléctrico
BD	Schema a Blocchi Esquemas en Bloques Esquema em Blocos

Safety INSTRUCTIONS

IMPORTANT!! SAVE THESE INSTRUCTIONS



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 electric cabinet.

- **Service on the unit must be performed by qualified personnel.**
- **Turn power switch off and unplug the unit before servicing.**

Contact with high voltages can cause death or serious injury.



Risk of eye injury. Debris, dirt, and fluids may drop from vehicles.

- **Knock off any loose debris. Clean surfaces as needed to avoid any materials from falling.**
- **Wear approved safety glasses when servicing.**

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



Risk of entanglement or crushing. There are moving parts on machine during operation.

- **Keep all persons clear of machine.**
- **Read manufacturer's operation instructions carefully.**
- **Follow manufacturer's safety recommendations.**

Contact with moving parts could cause injury.



Risk of abrasions.

- **Wear gloves whenever performing a service on wheels.**

Metal components can cause 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 vehicle services.**

Tools that break or slip can cause injury.

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1.0 Introduction

Congratulations on purchasing the JBC T 8010TR electric - hydraulic tire changer.

This tire changer is designed for ease of operation, safe handling of rims, reliability and speed.

With a minimum of maintenance and care your 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.

This manual is a part of the product. Read carefully the warnings and instructions of this manual since they provide important information concerning safety and maintenance.

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

The tire changer model JBC T 8010TR is intended to be used as a **device to demount and mount tubeless truck tires** with the following specifications:

- Maximum tire diameter : 47" (1200 mm)
- Maximum tire width : 20" (500 mm)
- Maximum wheel weight : 440 lbs (200 kg)

This device shall be used in the application for which it is specifically designed.

Any other use shall be considered as improper thus not reasonable. In particular **this device is not suitable to inflate tires.** Inflation of tires shall be carried out in an approved inflation safety cage.

The manufacturer shall not be considered liable for possible damages caused by improper, wrong or non-reasonable use.

1.1 Nomenclature

Before installing and using the tire changer it is suggested that you become familiar with the nomenclature of the machine's parts (Fig. 1).

- 1. Hydraulic control
- 2. Chuck rotation switch
- 3. Main switch
- 4. Mount/demount rollers
- 5. Toolholder arm lock lever
- 6. Toolholder Carriage
- 7. Footboard
- 8. Chuck
- 9. Chuck arm
- 10. Accessories peg
- 11. Chuck shaft/release lever

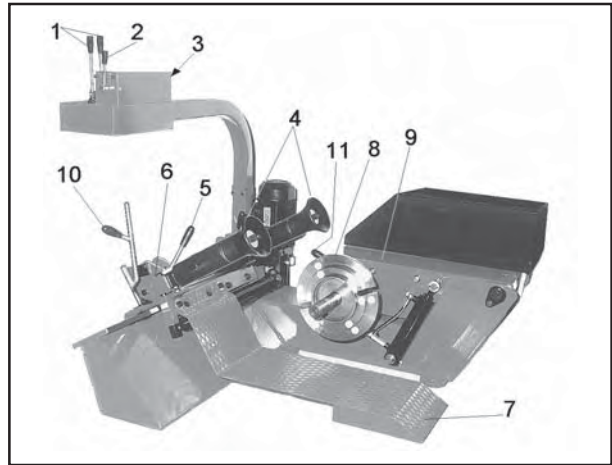


Fig.1

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1.2 Specifications

Electric-hydraulic tire changer for tubeless truck wheels:	
Weight with standard acc.	726 lbs (330 kg)
Electric specifications:	200VAC, 1ph, 60Hz.
Hydraulic motor power	1,12 kW (1,5 HP)
Chuck rotation motor power	0,75 kW (1 HP)
Rim diameter range	16" – 24,5"
Max. tire diameter	47" (mm 1200)
Max. tire width	20" (mm 500)
Max. chuck torque	1323 ft·lbs (1800 Nm)
Chuck rotation speed	4 rpm

1.3 Dimensions of the Machine

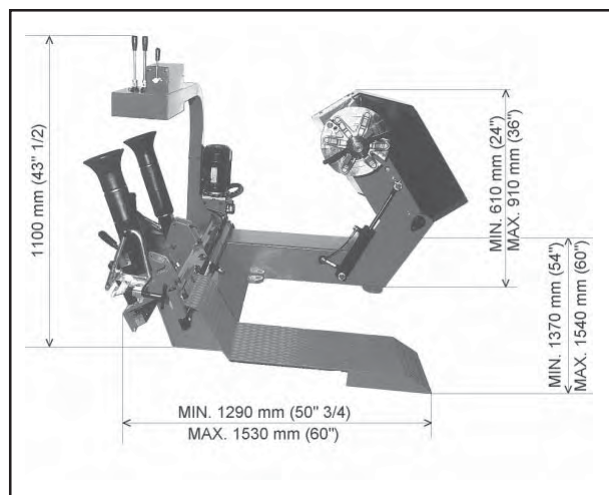


Fig.2

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1.4 Standard Accessories

#0001418 Short tire tool (Fig.3).

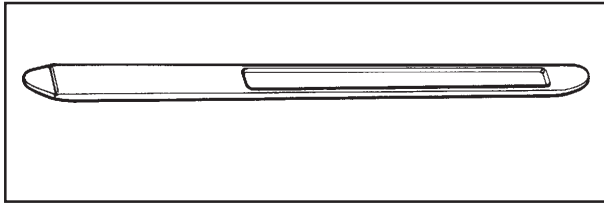


Fig.3

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#4021100 Star flange 220-280mm(Fig.4).

To hold rims with a center hole of 220 mm (8.66") and 280 mm (11.02").

Description on use is in section 5.1.C.

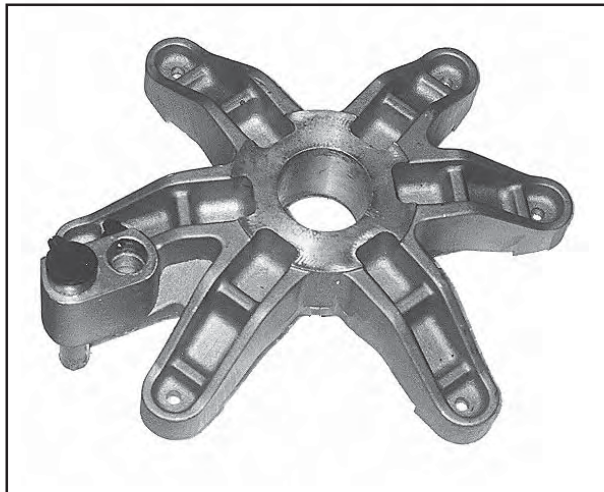


Fig.4

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#4021101 Centering flange 220-280mm (Fig.5)

Dual diameter flange fitted to the chuck plate to center rims with a center hole of 220 mm (8.66") and 280 mm (11.02").

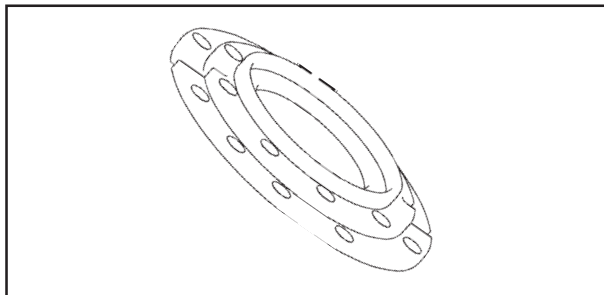


Fig.5

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#4021053 Wing nut (Fig.6).

To lock star flange and rim in place.

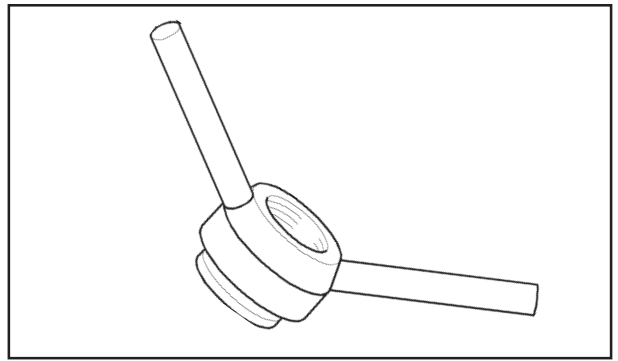


Fig.6

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#4009472 Mounting Clamp (Fig.7).

To hold the bead when mounting tires on steel rims. Description on use is in section 5.3.

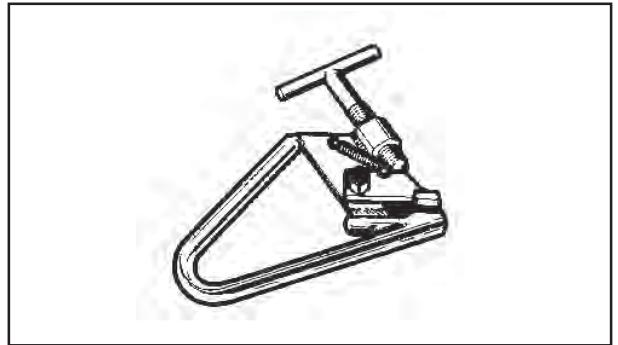


Fig.7

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1.5 Accessories on Request

#4021852 Mounting Clamp for light-alloy rims (Fig.8).

To hold the bead when mounting tires on light-alloy rims. Description on use is in section 5.5.

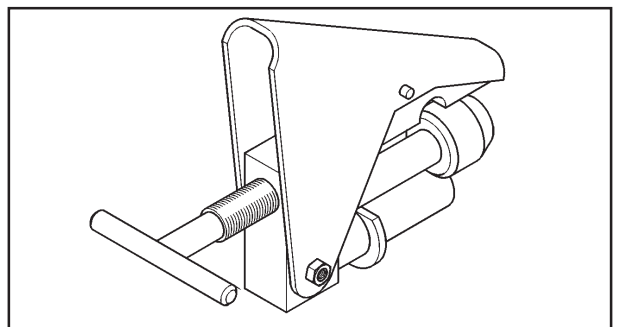


Fig.8

564

#4021247 Cone flange(Fig.9)

To center and hold rims with a center hole of 135-167 mm (5.31" - 6.57").

Description on use is provided in section 5.3.

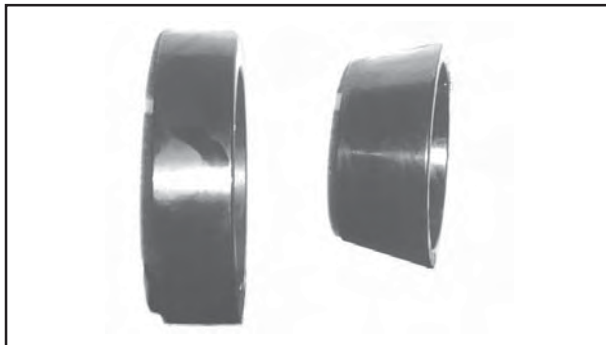


Fig.9

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#4020798 Star flange 164mm(Fig.10).

To hold rims with a center hole of 164 mm (6.46").

Description on use is in section 5.2.

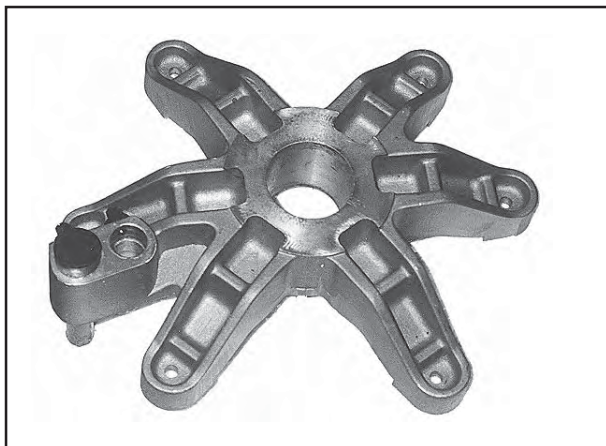


Fig.10

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1.6 General Precautions

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

B.
THE ELECTRIC POWER SOURCE MUST HAVE A GROUND CABLE AND THE GROUND CABLE OF THE MACHINE (YELLOW WITH GREEN) MUST BE CONNECTED TO THE GROUND CABLE OF THE POWER SOURCE.

C.

BEFORE PERFORMING ANY MAINTENANCE OR REPAIRS THE MACHINE MUST BE DISCONNECTED FROM THE ELECTRIC SUPPLY.

D.
NEVER WEAR TIES, CHAINS OR OTHER LOOSE ARTICLES WHEN USING, MAINTAINING OR REPAIRING THE MACHINE. LONG HAIR IS ALSO DANGEROUS AND SHOULD BE KEPT UNDER A HAT. THE USER MUST WEAR PROPER SAFETY ATTIRE IE; GLOVES, SAFETY SHOES AND GLASSES.

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

2.0 Installation

Install the machine in a covered and dry area. 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 that 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.

In case the machine is installed on a raised floor or on a service vehicle the floor must have a capacity of at least 110 lbs x sqft (5000 N/m² or 500 kg/m²).

The machine must be secured to the floor through the holes provided in the cabinet. Expansion screws 12x120 mm (or bolts 12X80mm) shall be used.

Drill 12 mm holes in the floor in correspondence of the holes provided for 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 in correspondence of the holes in the floor.

Tighten the screws at 51 ftxlb (70 Nm).

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

To install the machine proceed as follows:

A. Move the control arm to a vertical position. Install the lock bolt and tighten the nut properly. Make sure that the electric cable and hydraulic hoses are not caught nor damaged. (Fig.11).

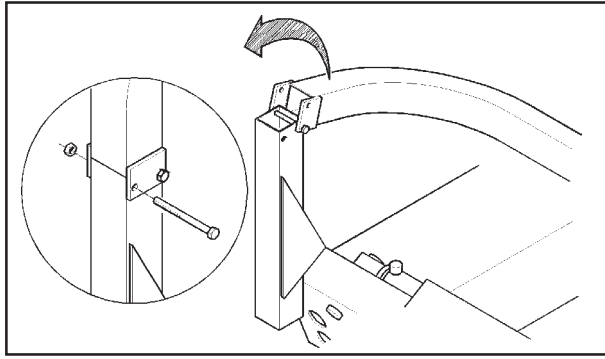


Fig.11

B. Install the accessories peg and lock with screw(Fig.11).

C. Remove the screws that secure the machine to the pallet
Lift the machine with a belt or a rope of appropriate strength and length (300 cm - 10') (Fig.12).o:

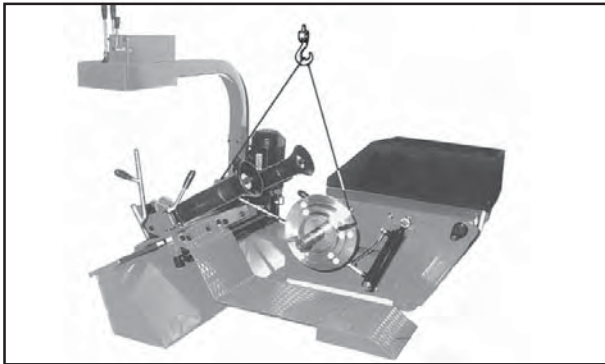


Fig.12

DO NOT SWING THE MACHINE WHEN LIFTED.

D. Remove the lifting aid screw (Fig.13).



Fig.13

E. Place the accessories onto the support provided.

3.0 Electric Installation

WARNING:

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

Check on the plate of the machine that the electrical specifications of the power source are the same as the machine.

The machine uses 200VAC, 1ph, 60Hz.

Electrical specifications are clearly marked on a label at the end of the electric cord.

Before connecting the machine to the power source, check that the power supply has an efficient grounding 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 with green wire in the cord is the grounding wire.

Never connect the grounding wire to a live terminal.

Check that the power supply has an automatic circuit breaker with a differential circuit set at 30 mA.

The electric motor operates in a wide voltage range (plus 10% - minus 7%) and frequency range (60 cycles) and has a class of insulation suitable for hot and moist climates.

3.1 Motor Rotation Check

Once the machine is hooked-up, turn the machine on using the ON/OFF switch.

Ensure that the rotation direction of the pump is the same as indicated by the arrow on the motor cover.

NOTE:

ANY DAMAGE CAUSED BY THE NON-APPLICATION OF THE ABOVE INSTRUCTIONS SHALL NOT BE DEBITED TO THE MANUFACTURER AND WILL VOID THE WARRANTY.

4.0 Controls

Before operating the machine ensure that you have well understood the operation and function of all the controls.

1.

Turn ON the main switch of the machine: the pump motor starts turning and remains in operation until when the machine is turned off. The power required is minimum when the hydraulic cylinders are not in use.

NOTE:

IT IS SUGGESTED TO TURN THE MACHINE OFF AFTER EVERY MOUNTING OR DEMOUNTING OPERATION, IF THE TIME BEFORE THE NEXT OPERATION SEEMS QUITE LONG.

2.

Operate the chuck rotation switch (#1 Fig.14) to the right: the chuck rotates clockwise.

Operate the chuck rotation switch to the left : the chuck rotates counter-clockwise.

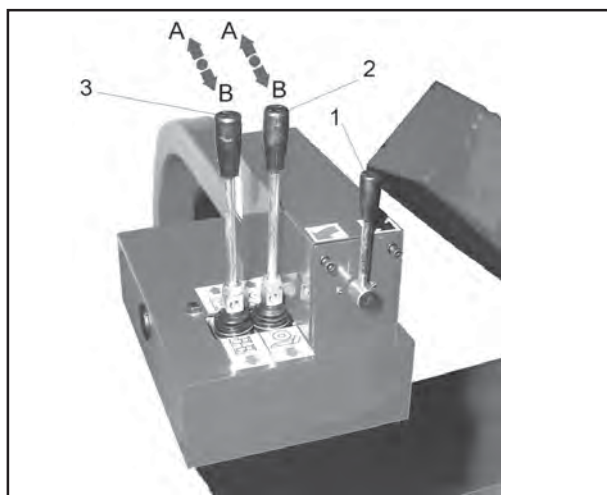


Fig.14

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3.

Operate the chuck arm control (#2 Fig.14) to position A : the chuck arm moves upwards.

Operate the control to position B : the chuck arm moves downwards.

4.

Operate the tool holder carriage control (#3 Fig.14) to position A : the carriage moves towards the machine.

Operate the control to position B : the carriage moves away from the machine.

5.

Use the tool holder arm lock levers (#1 Fig.15) to lock and release the tool holder arms.

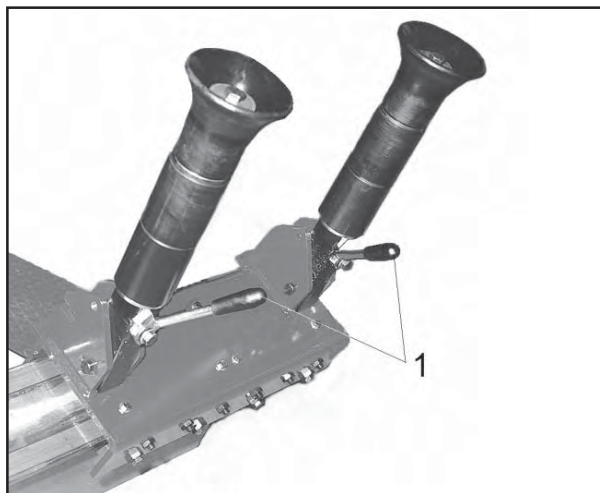


Fig.15

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6.

The hexagonal shaft can be locked in 3 different positions. Operate the chuck shaft lock/release lever (#1 Fig.16) and slide axially the shaft.

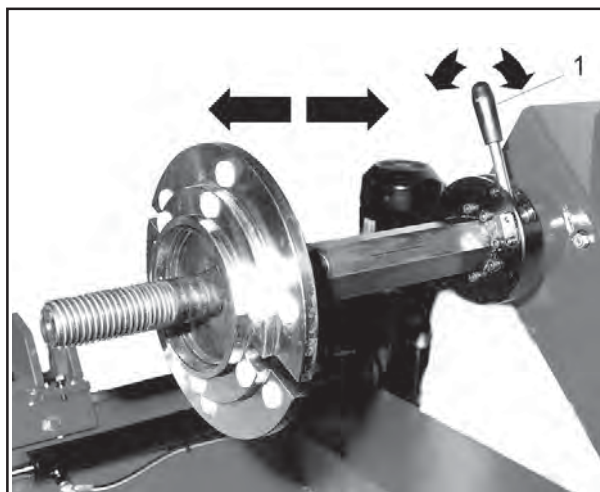


Fig.16

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7.

Make sure that the shaft is properly locked in position.

5.0 Mounting and Demounting- General Precautions

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

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

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

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

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

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

5.1 Locking Rims with a Center Hole of 220mm and 280mm

Move the footboard all the way to the outside.
Roll the wheel onto the footboard.

LÓ:

Move the chuck approximately to the center of the rim.
Move the footboard towards the chuck and center the rim on the flange of the corresponding diameter (220mm or 280mm).

Lock the rim with the wing nut (#2 Fig.17) and the star flange (#1 Fig.17) so that the drive pin is engaged into a bolthole of the rim.

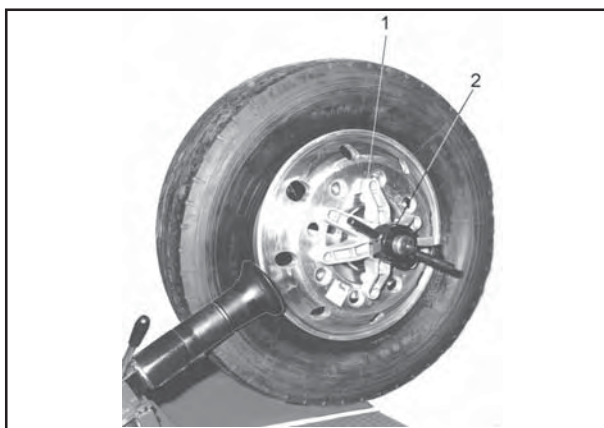


Fig.17

REMARK:

INSTALL THE DRIVE PIN ON THE STAR FLANGE INTO THE INNER DIAMETER HOLE FOR RIMS WITH A CENTER HOLE OF 220MM.
INSTALL THE DRIVE PIN INTO THE OUTER DIAMETER HOLE FOR RIMS WITH A CENTER HOLE OF 280MM. THE DRIVE PIN CAN BE INSTALLED/REMOVED WITH HAND PRESSURE.

Lock the wheel to the chuck with the appropriate flange checking that the drop center of the rim is towards the outside of the machine (Fig.18).

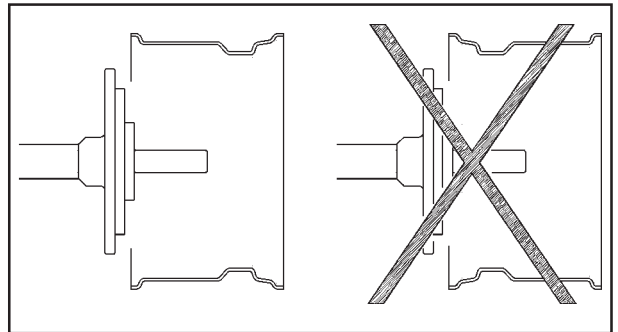


Fig.18

Position the shaft of the machine depending on the position of the rim flange (Fig.19 - 20).



Fig.19

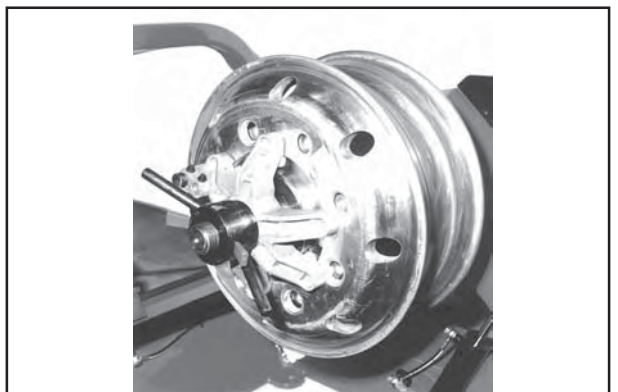


Fig.20

5.2 Locking Rims with a Center Hole of 164 mm

To lock this type of rims it is required the appropriate star flange #4020798 supplied on demand.

Remove the 280mm flange from the chuck as shown in Fig.21.

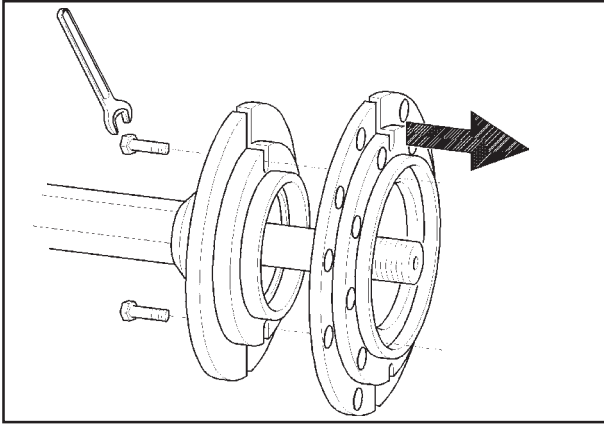


Fig.21

Lock the rim with the 164mm star flange, as described in section 5.1.

5.3 Locking Rims with a Center Hole of 135 ~ 167 mm

To lock this type of rims it is required the cone flange # 4021247 supplied on demand.

Mount the spacer ring onto the chuck (Fig.22).

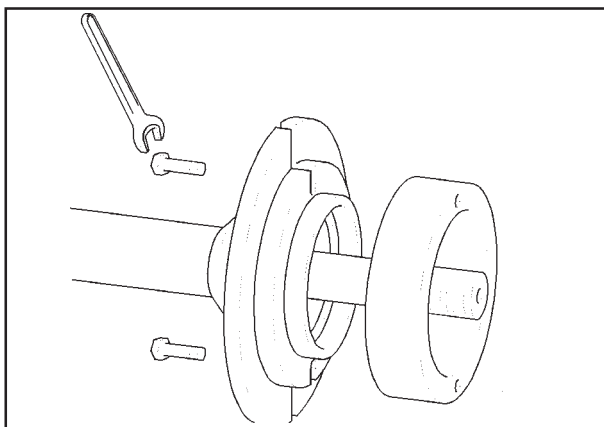


Fig.22

Lock the rim with the cone from outside following the same procedure described in section 5.1 (Fig.23).

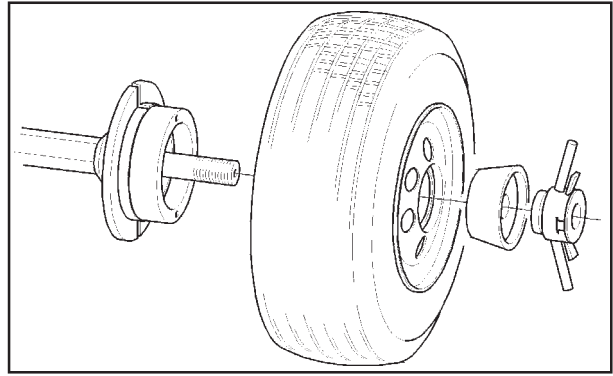


Fig.23

5.4 Demounting Tubeless Truck Tires

The tubeless truck tires are mounted on drop-center rims with a conical base. It is possible to demount these tires simply by pressure, with a proper lubrication (Fig.24).

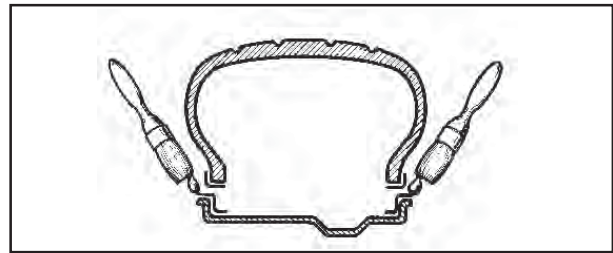


Fig.24

Remove all wheel-weights from the rim. Remove the valve stem or core and deflate the tire. Position the bead breaker roller as shown in Fig.25.



Fig.25

Lift or lower the chuck so that the bead breaker roller remains close to the rim edge. Turn the chuck counterclockwise and at the same time move the tool holder carriage step-by-step towards the inside to break the bead. Continue to turn the chuck and lubricate the bead and the rim liberally with an approved lubricant.

USE ONLY SPECIFIC LUBRICANTS FOR TIRES AND WHEELS.
APPROVED LUBRICANTS DO NOT CONTAIN WATER, PETROLEUM PRODUCTS/HYDROCARBONS OR SILICONE.

Lift the outer tool holder arm to idle position.
Lower the inner tool holder arm and lock in position.

Move the tool holder carriage until the roller is in contact with the inner bead.

Break the inner bead.

Continue to rotate the chuck while moving the toolholder carriage towards the outside until both beads are demounted from the rim (Fig.26).



Fig.26

ENSURE THAT THE OUTER BEAD SLIDES INTO THE DROP CENTER OPPOSITE TO THE TOOL, OTHERWISE THE DEMOUNTING OPERATION IS IMPOSSIBLE.

Move to the front of the tire and hold it with both hands in the last part of demounting operation to prevent the tire from falling or rolling away out of control (Fig.27).



Fig.27

5.5 Mounting Tubeless Truck Tires

MODEL WITH MOUNT/DEMOUNT ROLLERS

Liberalily lubricate the entire inner surface of the rim and the tire beads. Attach the mounting clamp (Fig.28) to the outer rim flange with the valve at 11 o'clock and the clamp at 12 o'clock.

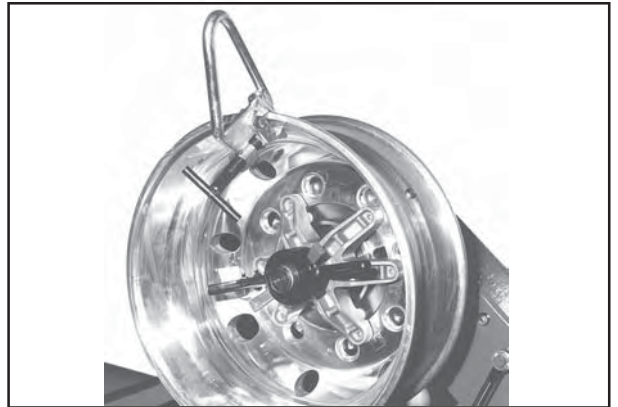


Fig.28

If the rim is made of a lighth-alloy the rim shape may not allow to attach the standard mounting clamp. In such a case use the light-alloy mounting clamp. The clamp can be used as shown in Fig.29 or 30.

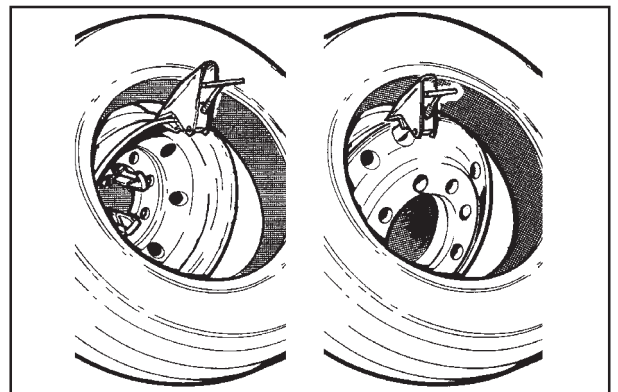


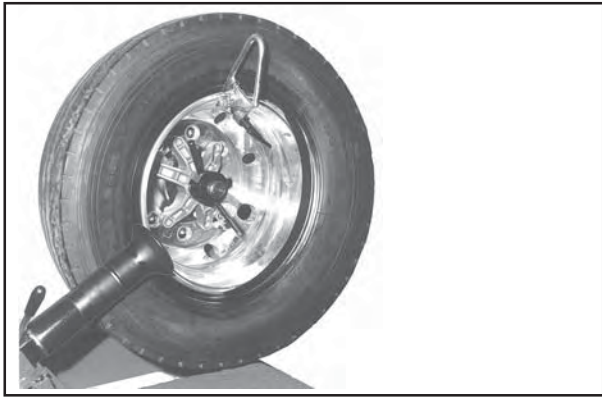
Fig.29 - Fig.30

Move the chuck arm all the way down. Roll the tire on the footboard and hang it onto the mounting clamp (Fig.31).



Fig.31

Lift the chuck arm and position the mounting roller approximately 1.5 cm (½") to the inside of the rim edge and approx. 1.5 cm (½") away from the rim edge (Fig.32).



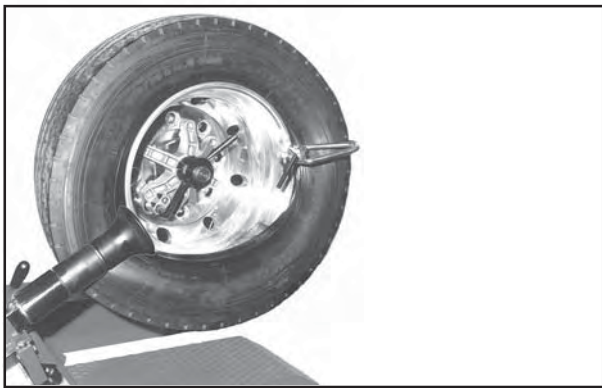
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Fig.32

The mounting clamp is at 11 o'clock approximately.

NEVER USE HAND PRESSURE TO HOLD THE TIRE ONTO THE RIM.

Turn the chuck *clockwise* until the tire is completely mounted (Fig.33).



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Fig.33

ENSURE THAT THE OUTER BEAD DESCENDS INTO THE DROP CENTER WHEN THE CLAMP IS OPPOSITE TO THE TOOL.

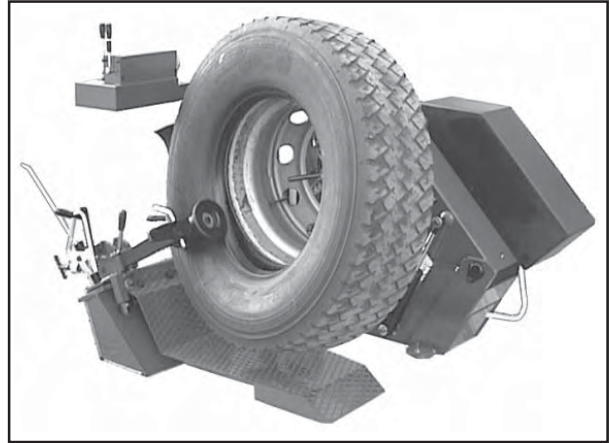
STOP THE CHUCK BEFORE ONE COMPLETE TURN IS MADE TO AVOID SERIOUS DAMAGES TO THE MOUNTING CLAMP AND TO THE RIM.

DO NOT INFLATE THE TIRE ON THE MACHINE. THIS MACHINE IS NOT AN INFLATION DEVICE. FOR INFLATION PLACE THE WHEEL IN AN APPROVED INFLATION RESTRAINT DEVICE (IN THE UNITED STATES OF AMERICA CONSULT O.S.H.A. REGULATIONS CONCERNING THE PROPER SERVICING OF TRUCK, WHEELS AND RIMS).

MODEL WITH HOOK-ROLLER TOOL

Liberally lubricate the entire inner surface of the rim and the tire beads.

Move the chuck arm all the way down. Roll the tire on the footboard and position it on the rim (Fig.34). Rise the chuck arm, push the tire outer bead by using roller tool and rotate at the same time clockwise, till the inner bead is completely mounted.



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Fig.34

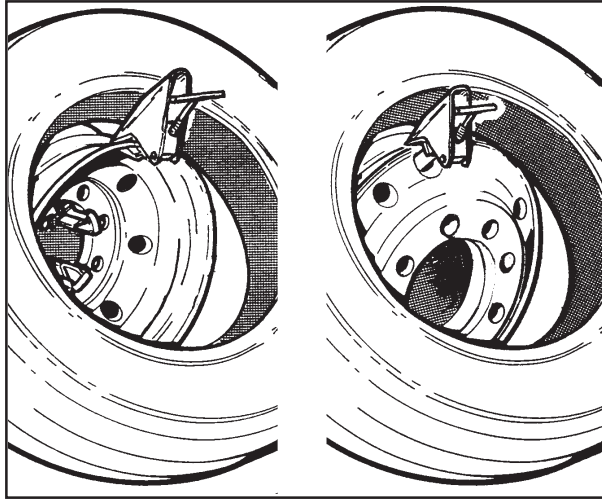
Attach the mounting clamp (Fig.35) to the outer rim flange with the valve at 11 o'clock and the clamp at 12 o'clock.



286

Fig.35

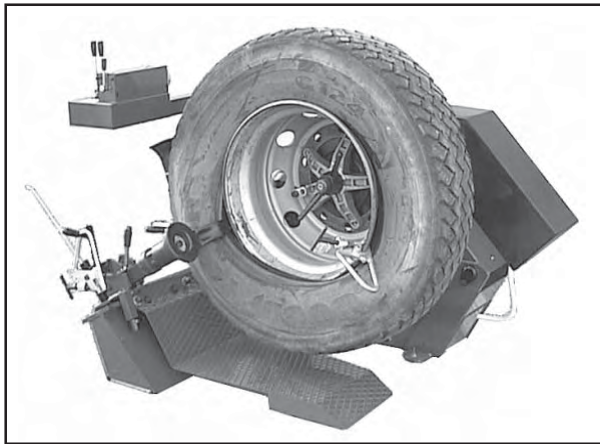
If the rim is made of a light-alloy the rim shape may not allow to attach the standard mounting clamp. In such a case use the light-alloy mounting clamp. The clamp can be used as shown in Fig.36 or 37.



583-584

Fig.36 - Fig.37

Position the mounting hook about 1/2" (1.5 cm) to the inside of the rim edge and 1/2" (1.5 cm) away radially. Turn the chuck clockwise until the tire is completely mounted (Fig.38).



829

Fig.38

ENSURE THAT THE OUTER BEAD DESCENDS INTO THE DROP CENTER WHEN THE CLAMP IS OPPOSITE TO THE TOOL.

STOP THE CHUCK BEFORE ONE COMPLETE TURN IS MADE TO AVOID SERIOUS DAMAGES TO THE MOUNTING CLAMP AND TO THE RIM.

DO NOT INFLATE THE TIRE ON THE MACHINE. THIS MACHINE IS NOT AN INFLATION DEVICE. FOR INFLATION PLACE THE WHEEL IN AN APPROVED INFLATION RESTRAINT DEVICE (IN THE UNITED STATES OF AMERICA CONSULT O.S.H.A. REGULATIONS CONCERNING THE PROPER SERVICING OF TRUCK, WHEELS AND RIMS).

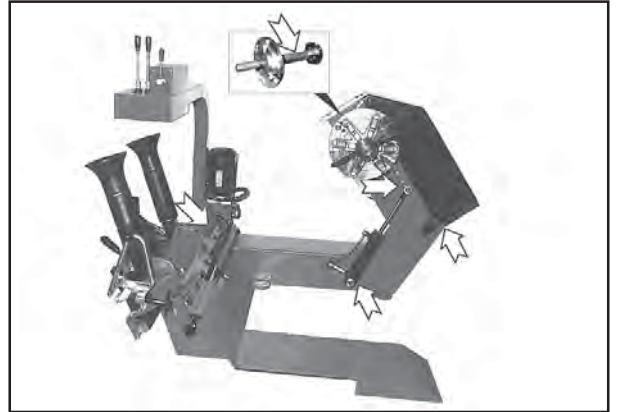
IMPORTANT!

IT IS NOT POSSIBLE TO MOUNT TWO BEADS AT A TIME USING THE HOOK TOOL.

6.0 Maintenance

BEFORE STARTING ANY MAINTENANCE OPERATION ENSURE THAT NO WHEEL IS MOUNTED ON THE CHUCK AND THAT THE MACHINE IS DISCONNECTED FROM THE ELECTRIC SUPPLY.

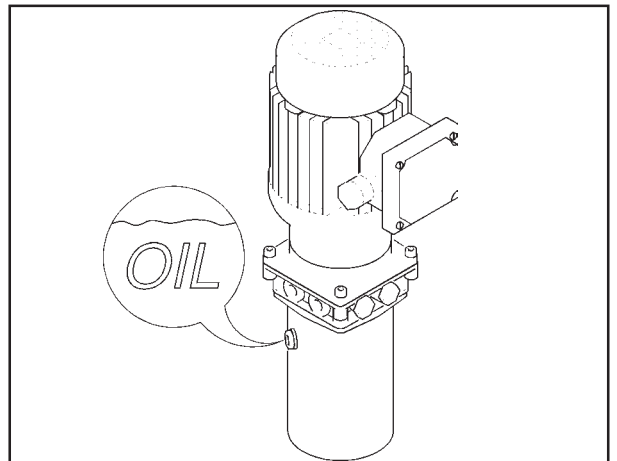
Lubricate all points provided with a greasing nipple once a month (Fig.39). Grease the hexagonal shaft once a month.



290

Fig.39

Check hydraulic oil level once a month (Fig.40).



305

Fig.40

NOTE:

BEFORE CHECKING, ALL CYLINDERS MUST BE COMPLETELY RETRACTED.

If necessary add:

Hydraulic Oils, ISO 46, Synthetic,
Kinematic Viscosity at 40°C= 45,
Viscosity Index (VI= 154)

- ESSO - Nuto H 46
- SHELL - Tellus oil 46
- TOTAL - Azolla 46

Oil change is not required.

7.0 Moving the Machine

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

Disconnect the machine from the electric supply. Use belts of a length of 10 ft (3000 mm) and capacity of 1100 lbs (500 kg).

Hold the machine as depicted in Fig.41.

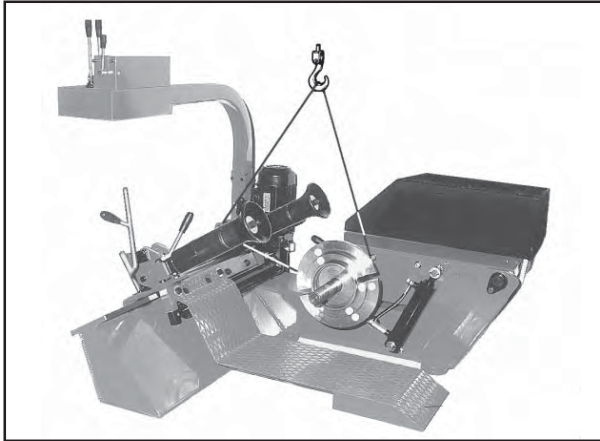


Fig.41

8.0 Putting the Machine out of Service

In case the machine is not to be used for a long period of time (6 months or more) it is necessary to close the chuck arm, retract all hydraulic cylinders and disconnect all power sources. Protect all parts that may be damaged, protect the hydraulic hoses that may be damaged because of a 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.

9.0 Scrapping the Machine

Once it is decided to no longer use this machine it is required to make it inoperable by cutting the electric cord. Considered the machine as a special waste, dismantle the machine into homogeneous parts (metal, plastic, oils etc) and dispose of according to local regulations.

10.0 Trouble Shooting

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

1. Rethink the last steps taken.
Did you work according to the manual?
Did the unit work as described and expected?
2. Check the unit according to the list in this chapter.
3. Call your local sales agent for technical service.

The set up of this chapter is:

Problem

1. Possible cause #1
 - Possible solution(s)
2. Possible cause #2
 - Possible solution(s)

When the main switch is turned on the machine does not work.

1. No electric power is available.
 - Check that the electric plug is correctly fitted to the socket and that the electric power is on.
2. Switch or motors burnt.
 - Check that the electric requirements of the machine are the same as the supply.

Pump motor does not turn but the chuck motor is operated normally.

1. Hydraulic motor burnt.
 - Call the authorized service centre for assistance.

Chuck motor does not work properly while pump motor does work.

1. Switch or chuck motor burnt.
 - Call the authorized service centre for assistance.

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