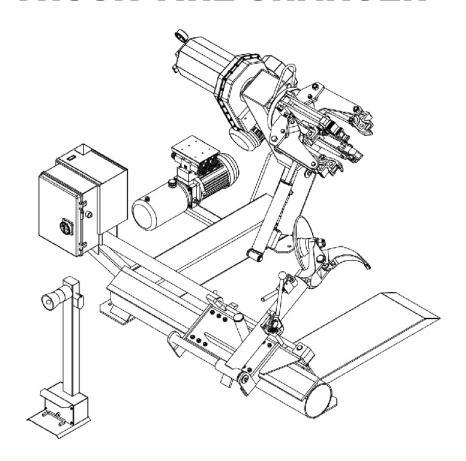


PRODUCT MANUAL

v.2022.09.14

MODEL TMG-TTC26

26" HEAVY-DUTY TRUCK TIRE CHANGER



A WARNING



- · Please read and understand the product manual completely before assembly
- · Check against the parts list to make sure all parts are received
- · Wear proper safety goggles or other protective gears while in assembly
- Do not return the product to dealer. They are not equipped to handle your requests.

TOLL FREE: 1-877-761-2819

Missing parts or have questions on assembly?

Please call: 1-877-761-2819 or email: cs@tmgindustrial.com

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The truck tire changer has been specifically designed to demount and mount truck, bus and commercial van tires, with rims from 14" – 26" (356 mm - 660 mm) and a maximum 63" (1600 mm) diameter. Any other use is improper and not authorized or recommended. Before beginning any kind of work on or with this machine, carefully read and understand the contents of these operating instructions. Manufacturer shall not liable for any injury to persons or damage to things caused by improper use of this machine.

KEEP THIS MANUAL NEAR THE MACHINE AND CONSULT IT AS NEEDED DURING OPERATION.

Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property.

OPERATOR PROTECTIVE EQUIPMENT

Personal protective equipment helps make tire changing safer. However, equipment does not take the place of safe operating practices.

Always wear durable work clothing during tire service activity. Shop aprons or shop coats may also be worn, however loose fitting clothing should be avoided.

Tight fitting leather gloves are recommended to protect operators hands when handling worn tires and wheels.

Sturdy leather work shoes with steel toes and oil resistant soles should be used by tire service personnel to help prevent injury in typical shop activities.

Eye protection is essential during tire service activity. Safety glasses with side shields, goggles, or face shields are acceptable.



Back belts provide support during lifting activities and are also helpful in providing operator protection.

Consideration should also be given to the use of hearing protection if tire service activity is performed in an enclosed area, or if noise levels are high.



DEFINITIONS OF HAZARD LEVELS

Identify the hazard levels used in this manual with the following definitions and signal words:



Watch for this symbol: It Means: Immediate hazards which will result in severe personal injury or death.



Watch for this symbol: It Means: Hazards or unsafe practices which could result in severe personal injury or death.



Watch for this symbol: It Means: Hazards or unsafe practices which may result in minor personal injury or product or property damage.



Watch for this symbol! It means BE ALERT! Your safety, or the safety of others, is involved!

OWNER'S RESPONSIBILITY

To maintain machine and user safety, the responsibility of the owner is to read and follow these instructions:

- 1. Follow all installation instructions.
- 2. Make sure installation conforms to all applicable Local, State, and Federal Codes, Rules, and Regulations; such as State and Federal OSHA Regulations and Electrical Codes.
- 3. Carefully check the unit for correct initial function.
- 4. Read and follow the safety instructions. Keep them readily available for machine operators.
- 5. Make certain all operators are properly trained, know how to safely and correctly operate the unit, and are properly supervised.
- 6. It is the responsibility of the facility owner to properly designate work areas and areas where by-standers are not permitted.
- 7. Allow unit operation only with all parts in place and operating safely.
- 8. Carefully inspect the unit on a regular basis and perform all maintenance as required.
- 9. Service and maintain the unit only with authorized or approved replacement parts.
- 10. Keep all instructions permanently with the unit and all decal's on the unit clean and visible.



Do not attempt to operate this equipment if you have never been trained on basic truck tire service and mounting / dismounting procedures.



IMPORTANT SAFETY INSTRUCTIONS

- 1. **READ AND UNDERSTAND** all safety warning procedures before operating unit.
- 2. **KEEP HANDS AND FEET CLEAR**. Remove hands and feet from any movingparts.



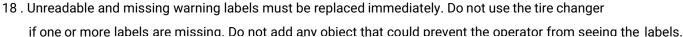
- 3. **KEEP WORK AREA CLEAN**. Cluttered work areas invite injuries.
- Consider work area environment. Do not expose equipment to rain.
 DO NOT use in damp or wet locations. Keep area well lighted.
- 5. **ONLY TRAINED OPERATORS** should operate this equipment. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with, or operate machine.
- 6. **USE MACHINE CORRECTLY**. Use machine in the proper manner. Never use adapters other than what is approved by the manufacturer.
- 7. **DO NOT** override or disable safety valves and/or devices.
- 8. ALWAYS INSURE that the arm lock is engaged before any attempt is made to service wheels and/or tires.
- 9. DRESS PROPERLY. Non-skid steel-toe footwear is recommended when operating machine.



- 10. GUARD AGAINST ELECTRIC SHOCK. This equipment must be grounded while in use to protect the operator from electric shock. Never connect the green power cord wire to a live terminal. This is for ground only.
- 11. **DANGER!** The motor on this machine contains high voltage. Disconnect power at the receptacle before performing any electrical repairs. Secure plug so that it cannot be accidentally plugged in during service.



- 12. **WARNING! RISK OF EXPLOSION**. This equipment has internal arcing or sparking partswhich should not be exposed to flammable vapors. This machine should not be located in a recessed area or below floor level.
- 13. **MAINTAIN WITH CARE**. Keep unit clean for better and safe performance. Follow manual for proper lubrication and maintenance instructions. Keep control pedals and/or buttons dry, clean and free from grease and oil.
- 14. STAY ALERT. Watch what you are doing. Use common sense. Be aware.
- 15. **CHECK FOR DAMAGED PARTS**. Check for condition of all moving parts, breakage of parts or any condition that may affect the machines operation. Do not use if any component is broken or damaged.
- 16. **NEVER** remove safety related components or device from the machine. Do not use if safety related components are damaged or missing.
- 17. To reduce fire hazard, keep engine/ motor exterior free of oil, solvent, or excessive grease.



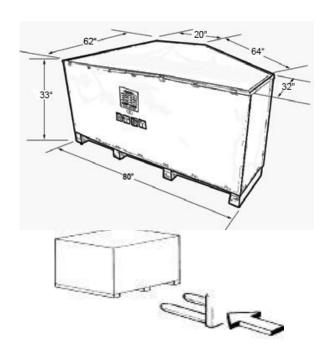


INTRODUCTION

This tire changer is shipped on a pallet. Approximate shipping dimensions are shown below.



Handling of the machine must be performed only with an appropriate lifting device such as a forklift or pallet jack. Only personnel who are experienced and quali- fied on material handling procedures should handle any transportation or moving of machine.



UNCRATING INSTRUCTIONS

Be careful when cutting steel/plastic banding material as items may become loose and fall causing personal harm or injury. Always wear gloves when uncrating the machine to prevent scratches, abrasions, or cuts due to the contact with packing materials. Eye protection is essential during uncrating service activity. Safety glasses with side shields, goggles, or face shields are acceptable.

Remember to report any shipping damage to the carrier and make a notation on the delivery receipt.

Using a crow bar or pry bar, locate the staple/nail/tab locations and pry off the bottom part the box.



NOTE: The entire box can be lifted off after prying the staples/nails/tabs at the base of the carton.

Remove the Control Pod, Sliding Carriage. Grease Gun and Tire Irons from the pallet and set aside.

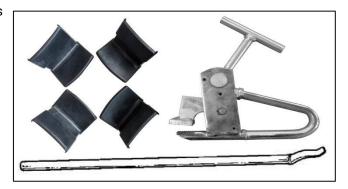
NOTE: The Control pod is connect to the Power Control Box via a cable.

NOTE: The Sliding Carriage should be attached after the Tire Changer is in the proper operating location and wired correctly.

Accessories

Open the Tool Storage Box, remove and inventory the Accessories

- 1. Large Bead Tool
- 2. 8pcs Nylon Safety Cover
- 3. Wheel Clamp

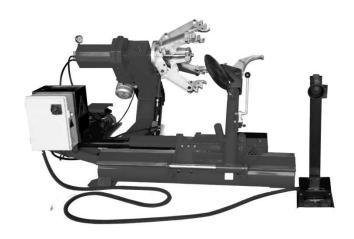


Specifications

Type of Drive System	Electric / Hydraulic
Standard Voltage	208-230V / 60Hz / 1Ph*
Wheel Clamping Method	4 clamps
Bead Breaking System	Armor-Plate Disc
Max Rim Diameter	14" – 26" (356 mm - 660 mm)
Max Tire/Wheel Diameter	63" (1600 mm)
Max Tire/Wheel Width	31-1/2" (800mm)
Shipping Weight	1254lbs. (570Kg)

Specifications are subject to change without notice.

^{*}Different voltages available upon request.

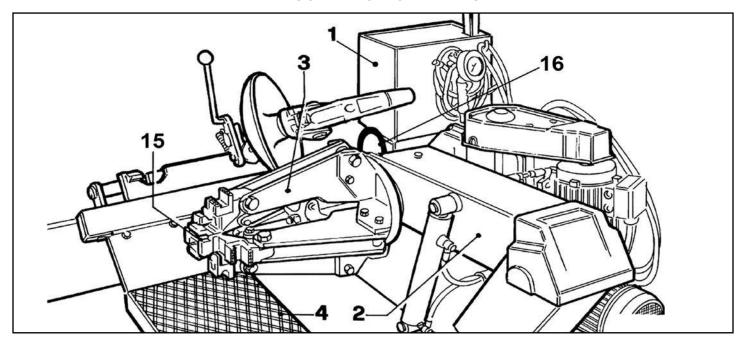


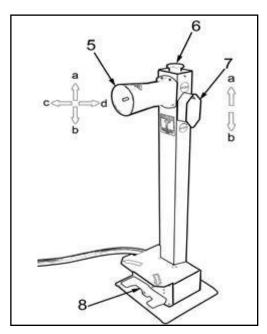


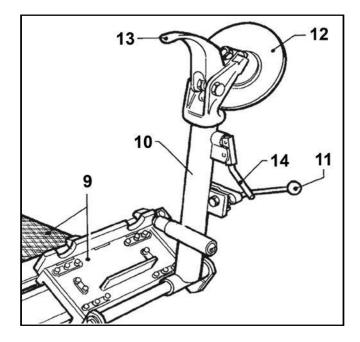
KEEP THIS MANUAL NEAR THE MACHINE AND CONSULT IT AS NEEDED DURING OPERATION.

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DESCRIPTION OF PARTS







- 1 Main Power Console / on-Off Switch
- 2 Horizontal Chuck Arm
- 3 Self Centering Chuck
- 4 Sliding Table
- 5 Chuck Arm Joystick Control
- 6 Emergency Stop
- 7- Chuck Control Switch
- 8- Wheel (CW/CCW) Rotation Control

- 9- Sliding Carriage
- 10 Mount Demount Tool Holder Arm
- 11 Arm Lock Lever
- 12 Bead Breaking Disc
- 13 Bead Tool
- 14 Tool Lock Handle
- 15- Self Centering Chuck Jaws
- 16 Lifting Hook

INSTALLATION AND ASSEMBLY

▲ WARNING

▲ WARNING

DANGER

Do not lift or move unit without appropriately rated equipment. Be sure the unit is securely attached to lifting device used.

Do not lift unit by holding onto arms, carriage or other non-approved lifting areas.

Never use the wood shipping skid for mounting the unit.

Choose a safe location that is in compliance with current work place safety regulations. Failure to properly install the

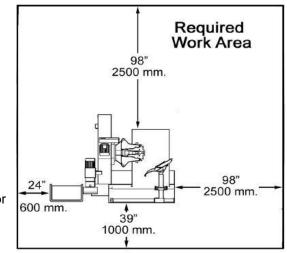
machine can lead to improper and unsafe operation.

Machine size is approximately: 75" w x 60" l x 28" h (1905mm w x 1524mm l x 711mm h)

Recommended minimum work area distance from walls as shown in the diagram.

These measurements are the tire changers working range.

Persons other than specially trained and authorized operators are expressly for bidden to enter this area.

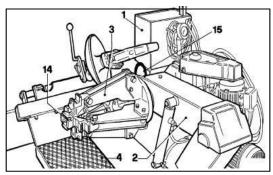


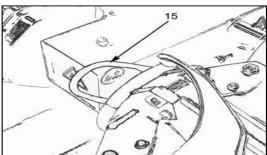
Transporting / Moving

The tire changer has a lifting ring which has been positioned specifically for moving the machine.

Before attempting to transport the machine, follow these instructions:

- 1) Make sure the horizontal chuck arm (2) is completely lowered.
- 2) Make sure the chuck jaws (3) are closed.
- 3) Bring the sliding table (4) all the way left towards the horizontal chuck arm.
- 4) Insert a lifting hook and cable with a minimum lifting capacity of 1500-pounds (680 kgs.) around the lifting ring (15). Make sure the cable is of sufficient length to properly clear the tire changer when handling.
- 5) Take precaution to keep track of the cable connecting the Control Pod while moving the Tire Changer.
- 6) Lift only with an approved capacity lifting truck or approved devise that is capable of safely handling the load.





Wiring Instructions



Disconnect, tag and lock out power source before attempting to install, service, relocate or perform any maintenance.



1. Check the voltage, phase and proper amperage requirements for the motor shown on the motor plate. Wiring should be performed by a certified electrician only.



Overheating, short circuits and fire damage will result from inadequate wiring. Wiring must be installed in accordance with National Electric Code and local codes and standards covering electrical apparatus and wiring.

Be certain that adequate wire sizes are used, and that:

- · Service is of adequate amp rating.
- The supply line has the same electrical characteristics (voltage, cycles and phase) as the motor.
- The line wire is the proper size and that no other equipment is operated from the same line.

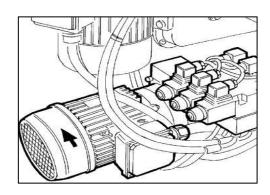
Motor Rotation Check

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. If not, contact the Customer Service. Wiring should be performed by a certified electrician only.



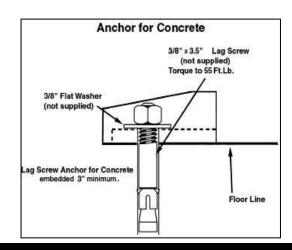


Anchoring

It is not essential to anchor the machine to the floor, however, the floor must be smooth and level and permit the platform rollers to move freely. When anchoring to a concrete floor use the mounting holes that are provided in the frame.

Make sure the machine is solid and level and supported evenly on all anchor points.

Solid shims may be used if necessary.

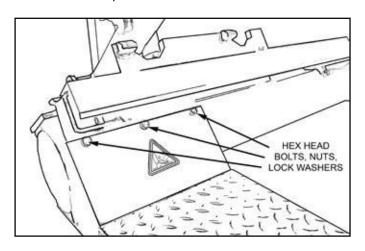


SLIDING TRAY ASSEMBLY

Using the Control Pod slide the Horizontal Chuck Arm to the Right and Turn off the power. (See page 13) Remove the three bolts, then position the Sliding Tray and tighten the three bolts, washers and lock washers.

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TIRE AND WHEEL SERVICE SAFETY INSTRUCTIONS



Only properly trained personnel should service tires and wheels on the changer. Read all safety and operating instructions thoroughly before use. The following safety instructions are for one piece wheels only. Always refer to the manufacturer's procedures for multi-piece wheels.

ALWAYS wear durable personal protective work clothing and safety gear during tire service activity. Refer to page three for Operator Protective Equipment.

ALWAYS remove all wheel weights and the valve core to deflate the tire before servicing.

ALWAYS keep all working surfaces clean and free of debris.

ALWAYS be aware of what each person is doing-- and will do before attempting any two-person operation.

ALWAYS cover the electric motor and electrical components before cleaning the tire changer.

Be sure water or cleaner does not enter the motor or electrical components or come in contact with electrical connections.

ALWAYS disconnect the electric power and air supply before attempting any maintenance.

Bead Loosening

NEVER place anything between the bead loosener discand the tire/wheel.

NEVER allow the bead loosener disc to contact the wheel or wheel damage may occur.

NEVER place any part of your body between the bead loosener disc and the tire/wheel, severe bodily injury may result.

Demounting & Mounting

ALWAYS clean and inspect the wheel prior to any service.

NEVER stand on the sliding carriage, frame or work table while demounting or mounting a tire.

ALWAYS keep hands, feet, and other objects away from moving parts while the machine is turned on.

ALWAYS place the narrow bead seat to the outside when clamping. Failure to demount the tire from the narrow bead seat side may cause damage to the tire beads.

ALWAYS apply an approved rubber lubricant to rim flanges and both tire beads before demounting or mounting and seating the beads.

NEVER mount a tire on a damaged or rusty wheel as tire or wheel failure may result during inflation. Explosion from failure may result in severe injury or death of the operator and bystanders.

Inflation

ALWAYS be sure the bead opposite the tool is in the drop center before rotating the tire when demounting or mounting to avoid damage to the tire beads.

NEVER seat beads or inflate a tire on the tire changer. The tire changer is not designed as a safety device or stand for bead seating or inflation.

ALWAYS follow all applicable Local, State, and Federal Codes, Rules, and Regulations; such as the Federal OSHA Standard Number 1910.177.

ALWAYS use an approved inflation chamber or inflation cage equipped with a self-gripping chuck and remote inflation gauge and valve.

ALWAYS inflate the tire to manufacturer's recommended cold operating pressure.

DO NOT OVER INFLATE! Tire or wheel failure during and after inflation may result in an explosion capable of causing severe injury or death.

NEVER reinflate a tire that has been run under inflated or flat without first demounting the tire and checking for wheel and tire damage.

ALWAYS inspect the tire interior for loose or broken cords, cuts, penetrating objects, and other damage. Discard tires that cannot be properly repaired.

NEVER rework, weld, heat or braze wheels.

NEVER strike the tire or wheel with a hammer.

ALWAYS be sure the tire diameter exactly matches the wheel diameter.



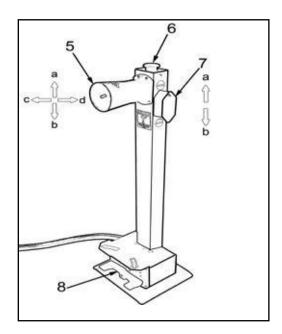
Tire failure under pressure can be hazardous. Always place wheels inside an approved inflation chamber or cage before inflating. Use an approved remote inflation valve, hose, and gauge. ALWAYS wear safety goggles for eye protection. Do not stand beside the wheel or cage during inflation. Keep hands and other parts of the body out of the cage during inflation. Observe the tire pressure frequently. Do not exceed the manufacturer's recommended maximum inflation pressure. Failure to follow these instructions may cause the tire and rim to separate with tremendous force, resulting in serious personal injury or death.

OPERATING INSTRUCTIONS

Controls

The mobile control enables the operator to work at any position around the machine. Before operating the machine ensure that you thoroughly understand the operation and function of all controls.

- 1. To turn the machine on, rotate the ON/OFF switch to the ON position. The the running light will illuminate and pump motor will start running and will remain in operation until the machine is turned off. The power required is minimum when the hydraulic cylinders are not in use.
- 2. Press the chuck rotation pedal (8) to the right: The chuck will rotate clockwise. Press to the left and the chuck rotates counterclockwise.
- 3. Move the joystick control (5) to position A and the horizontal chuck arm will move upward. Move the joystick control (5) to position B and the horizontal chuck arm will move downward.
- 4. Move the joystick control (5) to position C and the sliding carriage will move left. Move the joystick control (5) to position D and the sliding carriage will move right.



5. Move the switch (7) upward and the self-centering chuck jaws will open.

Move the switch (7) downward and the self-centering chuck jaws will close.



- Ensure that the horizontal arm is fully raised prior to rotation of the self-centering chuck .
- Before lifting the tool holder arm be sure that nobody is standing in the operational area or areas of danger.
- When opening the chuck ensure that the jaws do not contact or hit other parts of the machine.

NOTE: All the controls are very sensitive and small movements of the machine can be done with precision.



Demounting and Mounting

Before mounting a tire on a rim, pay attention to the following:

- The rim and all of its parts must be clean and in good condition.
- Remove all wheel-weights, including tape weights inside the rim.
- The tire must be clean and dry, without any damage to the bead, sidewalls or tread area(s).
- Replace the rubber valve stem or o-ring with a new one.
- If the tire requires a tube or a flap, make sure the tube is dry and in good condition.
- Lubrication is necessary to mount the tire correctly and get a proper centering. Be sure and use an approved lubricant only.
- Make sure the tire is the correct size for the rim.

Locking / Mounting The Wheel

- 1. Take the mobile control unit to a comfortable working position clear of moving components.
- 2. Place the tool-holder arm (10) into the upright position.
- Operating from the mobile control, move the sliding table (9) away from the self-centering chuck and placethe wheel in vertical position on the sliding table.

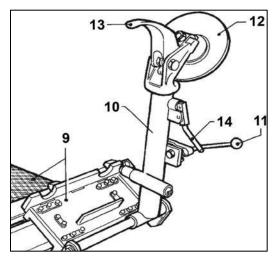


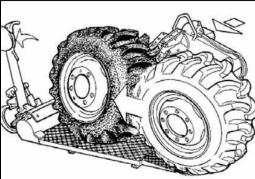
The drop center of the rim (when it exists) must be kept towards the outside of the machine.

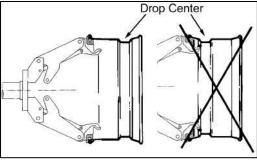


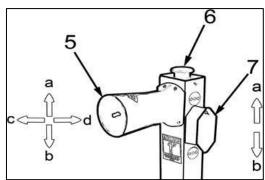
If the wheel is heavy, always be sure to use a suitable external lifting device (i.e. fork lift, crane etc.). Always practice workplace safety. Back belts provide support during lifting activities and are also helpful in providing operator protection.

- 4. Continuing to operate from the mobile control, lift or lower the horizontal arm and center the self-centering chuck relative to the center of the wheel. Move the joystick control (5) to position A and the horizontal chuck arm Will move upward. Move the joystick control (5) to position B and the horizontal chuck arm will move downward.
- 5. With the jaws in the closed position, move the joystick control (5) to position C and the sliding carriage and table will move left towards the self-centering chuck.
- 6. Slowly continue moving the sliding carriage and table left until the center of the wheel positions over the closed self-centering chuck jaws.
- 7. Operate the chuck switch (7) to open the self-centering chuck and lock onto the inside of the wheel using the approved mounting illustrations shown below making sure the drop center of the rim (when it exists) is kept towards the outside of the jaws.



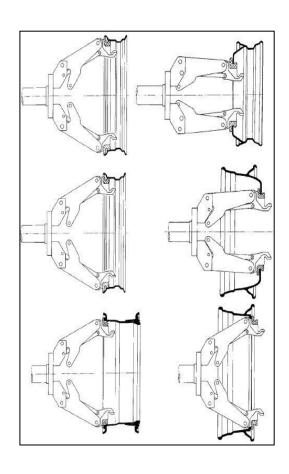








- When the horizontal arm is lowered, there is always a potential for crushing anything in its movement range. Always keep well out of the working range of the various moving arms and parts.
- When the chuck jaws open or close, there is always a potential for crushing anything in their movement range. Always keep hands and fingers out of the jaws working range.
- When locking the wheel, make sure that clamps are properly positioned on the rim, so as to prevent the tire from falling.
- This operation can be extremely dangerous. Do it manually only if you
 are certain you can keep the wheel balanced. For large and heavy tires
 an adequate lifting device must be used.



Demounting Tubeless Truck Tires (Up to 13")

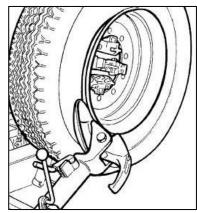
Tubeless truck tires are usually mounted on drop-center rims. It is possible to demount these tires simply by pressure, and with proper lubrication

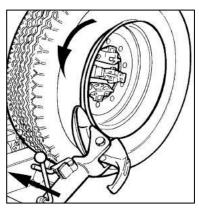
1. Remove all of the wheel-weights from the rim. Remove the valve stem or core and deflate the tire.



ALWAYS remove valve core to deflate tire before servicing.

- 2. Position the bead loosener disc or tubeless roller on the outside bead of the tire as shown below.
- 3. Lift or lower the chuck so that the bead loosener disc or tubeless roller remains close to the rim edge. Turn the chuck counterclockwise while at the same time moving the tool holder sliding carriage slowly left.

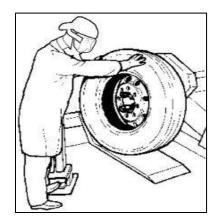


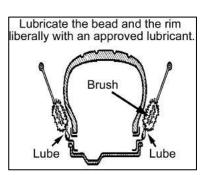


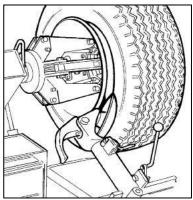
- 4. Continue to turn the chuck and lubricate the bead and the rim liberally with an approved lubricant. Use only approved lubricants for tires and wheels. Continue until the first bead is fully detached.
- 5. Bring the tool carrier arm and disc back from the edge of the wheel then release the hook and raise the tool holder arm to the rest position.
- 6. Press the tool lock handle to unlock the tool head and turn the head 180° until it locks automatically and the disc is facing to the right.
- 7. Lower the tool-holder arm into its working position and allow it to lock securely.

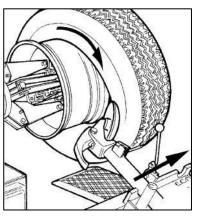


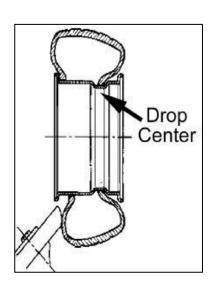
- 8. Position the bead loosener disc close to the rim edge
- 9. Turn the chuck counterclockwise while at the same time moving the tool holder sliding carriage slowly right until the inside bead is fully detached.
- 10. Continue rotating the chuck, moving tool holder carriage towards the outside until the beads are completely demounted. Ensure that the outer bead slides into the drop center opposite to the tool, otherwise the demounting operation is impossible.
- 11. 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.











Mounting Tubeless Truck Tires (Up to 13")

- Liberally lubricate the entire inner surface of the rim and the tire beads.
 Attach the mounting clamp to the outer rim flange with the valve at 11 o'clock and the clamp at 12 o'clock.
- 2. Move the horizontal chuck arm all the way down then roll the tire on the foot board and hang it onto the mounting clamp.
- 3. Lift the horizontal chuck arm and position the mounting hook or tubeless roller approximately 1/2" (1.5 cm.) to the inside of the rim edge and approximately 1/2" (1.5 cm.) away from the rim edge. The mounting clamp should be at approximately 11 o'clock.



Never use hand pressure to hold the tire onto the rim as personal injury may result.

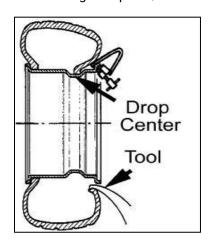
4. Turn the chuck clockwise until the tire is completely mounted.

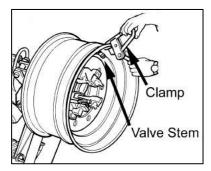


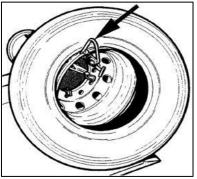
Ensure that the outer bead moves into the drop center when the clamp is opposite to the tool.

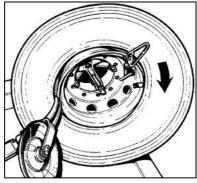


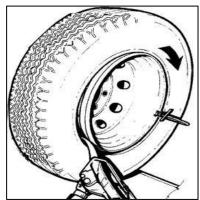
Stop the chuck before one complete turn is made to avoid personal injury or serious damage to the mounting clamp and/or rim.









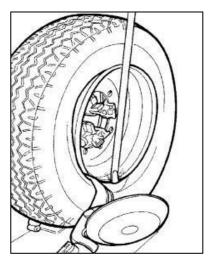


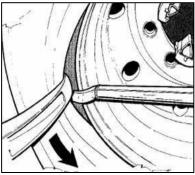
Demounting Duplex and Supersingle Tubeless Truck Tires (Over 13"Wide)

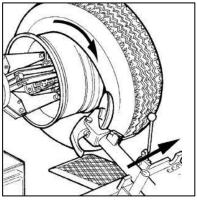
- 1. Loosen the outer bead of the tire as described previously.
- 2. For this type of tire it is not possible to demount both beads at the same time with the disc as described earlier.
- 3. Engage the hook of the mount/demount tool between the bead and the rim then lift the horizontal chuck arm making the rim raise just enough to clear the hook about 1/2" from the rim flange. Move the mount/demount tool towards the outside. This will allow you to place the long tire iron bar in between the bead and the rim flange.
- 4. Rotate the chuck counterclockwise until the outer bead is completely demounted.
- Demount the inner bead with the bead breaker disc, as described earlier.
 Continue rotating the chuck, moving tool holder carriage towards the outside until the beads are completely demounted.

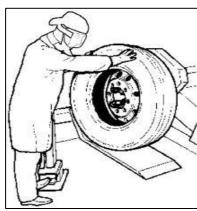


Move to the front of the tire and hold it with both hands in the last part of demounting operation to prevent the tire from falling or rolling away out of control.









Mounting Duplex And Supersingle Tubeless Truck Tires (Over 13"Wide)

- 1. Hang the inner bead of the tire on the mounting clamp.
- 2. Position the mounting hook about 3/4" (1.5 cm) to the inside of the inner rim edge and 1/2" (1 cm) away.
- 3. Rotate the chuck clockwise. Normally less than 1/4 of a revolution is sufficient to mount the first bead.
- 4. Re-attach the mounting clamp to the outer rim flange with the valve forward of the mounting clamp.
- 5. Rotate the chuck clockwise until the tire is completely mounted.

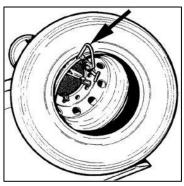


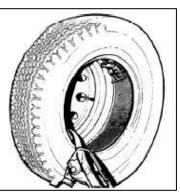
Always stop the chuck before one complete turn is made to avoid personal injury or serious damage to the mounting clamp and/or rim.

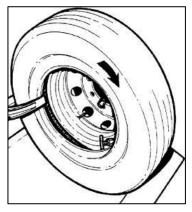


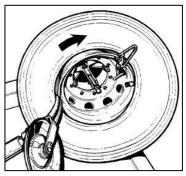
Do not inflate the tire on the machine. This machine is not an inflation device. For inflation place the wheel in an approved inflation restraint device. Refer to OSHA standard number 1910.177.











Demounting Tires From Multi-Piece Rim/Wheel Assemblies (Tube Type Tires)

The multi-piece split-rim/wheel assembly can be in single or multi-piece configurations.

NOTE:

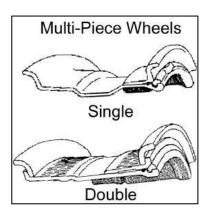
Always consult the tire /wheel manufacturer for information if you are uncertain of Rim/wheel configuration.

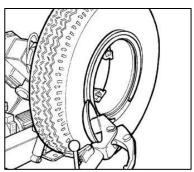
- 1. Remove all wheel-weights from the rim. Remove the valve stem or core and deflate the tire completely.
- 2. Position the tool close to the rim edge.
- 3. Turn the chuck counterclockwise and loosen the bead as described previously. Do not lubricate.
- 4. To remove the lock ring, squeeze one edge with the tire iron bar and place the bead loosener disc as shown.
- 5. Turn the chuck clockwis (or counterclockwise) until the lock ring is completely removed.

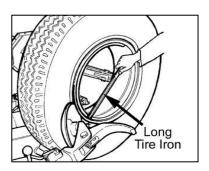


No one should stand in front of the wheel when removing the lock ring.

6. Continue to demount all components of the rim manually or with the disc tool. When loosening the inner bead besure not to damage the valve stem.









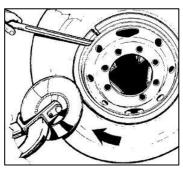
Mounting Tires Onto Multi-Piece Rim/Wheel Assemblies

- Roll the tire onto the sliding table (the tube and flap must first be in place).
 For tube type only, the valve should be placed at 12 o'clock, for easier mounting.
- 2. Slide the tire onto the rim with the sliding table or with the bead loosener disc, if necessary.
- 3. Mount all the assembly components.
- 4. Engage one edge of the lock ring in its seat and complete the mounting process with the bead loosener disc. In the initial mounting phase hold the rim edge in its seat with a tire iron bar.



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. Refer to OSHA standard number 1910.177.





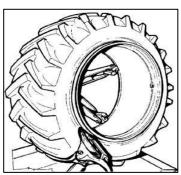
Demounting Tractor and O.T.R. Wheels With One-Piece Rims

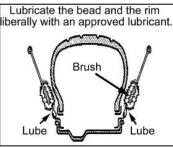


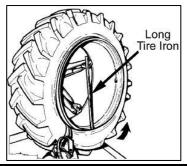
O.T.R. tires and rims are very heavy and an outside lifting tool may be required.

These wheels may be tube-type or tubeless. The rim has a slight conical surface and a very high rim flange which does not allow you to demount both beads at the same time with the disc as described earlier.

- 1. Remove all wheel-weights from the rim. Remove the valve stem or core and deflate the tire completely.
- 2. Place the disc tool next to the rim edge and loosen tire inner bead.
- 3. Loosen the outer bead in the same way, taking care not to damage the valve stem.
- 4. Lubricate both beads and the rim surface.
- 5. Place the hook tool between the bead and rim then lift the horizontal chuck arm to move the hook tool away from the rim edge (1" or 2-3 cm). Move the tool towards the outside to apply the long tire iron bar.



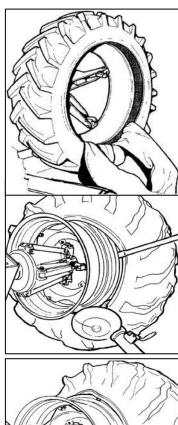


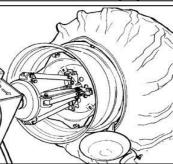


- 6. Turn the chuck counterclockwise until the outer bead is completely demounted. If the tire is a tube-type, push the valve stem towards the inside of the rim then lift the tool holder arm to the rest position. Shift the tire from the rim, by moving the sliding carriage towards the outside. This will make it much easier to remove the tube.
- 7. Place the hook tool as shown. The edge of the hook should be about 1" (2-3 cm) away from the rim edge and about 1" (2-3 cm) to the outside. Put the long tire bar in between the bead and the rim.
- 8. Rotate the chuck counterclockwise until the tire is completely demounted.



During the final phase of the demounting operation remove the tire bar and hold the tire with both hands, in order to keep it in a vertical position.



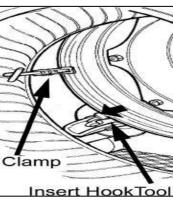


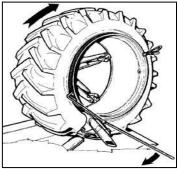
Mounting Tractor And O.T.R. Wheels On One-piece Rims

- 1. Liberally lubricate both beads and the rim.
- 2. Firmly fit the mounting clamp to the outer rim flange at 9 o'clock. Roll the tire onto the sliding table and position it over the mounting clamp attached to the rim edge.
- 3. Place the hook about (1" or 2-3 cm) away from the rim edge and (1" or 2-3 cm) to the outside.
- 4. Turn the chuck clockwise until the first bead is mounted. Remove the clamp.
- 5. Place the tube (if any) in the tire and secure the valve stem to the rim.
- 6. Firmly fit the mounting clamp to the outer rim edge at 11 o'clock with the valve stem at 10 o'clock in such a way as to hold the outer bead. If necessary make use of the tool to create the space to fit the clamp.
- 7. Place the hook tool as described then rotate the chuck clockwise till the tire bead is completely mounted. If necessary, use the bead bar to keep the bead in the drop center.



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. Refer to OSHA standard number 1910.177.





MAINTENANCE INSTRUCTIONS

Read and follow all the maintenance instructions provided in this manual to keep the machine in good operating condition. Regular inspections and proper maintenance are essential to preventing accidents and injuries. These instructions will help you service the unit. Instructions are for a person with some mechanical ability and training. No attempt has been made to describe all basic steps like how to loosen or tighten fasteners. Basic procedures such as cycling systems and checking operation of the equipment are not fully described since they are described in this manual. Do not attempt to perform work beyond your ability or at which you have no experience. If you need assistance, call an authorized service center or contact the factory.



The motor on this machine contains high voltage. Disconnect power at the receptacle before performing any electrical repairs.

Secure plug so that it cannot be accidentally plugged in during service.

DAILY

- On a daily basis, inspect the unit and check to be certain that all systems are operating normally. Follow detailed inspection and testing procedures as specified for various components at regular intervals.
- Replace any damaged or missing safety decal's. They are available from the factory.
- ♦ Make sure all fasteners are securely tightened and all safety locks, controls, knobs, hooks, pins and guards and covers are in place and operating correctly.
- Check for worn, damaged or missing parts. Replace them before allowing the unit to be used.

MONTHLY

- ♦ Check operation of the mount/demount tool holder.
- ♦ The sliding table / carriage, clamps, bead breaking head, and other working surfaces should be cleaned with a vaporizing solvent every month.

EVERY SIX WEEKS

Grease periodically the following parts, after having cleaned them carefully with diesel oil:

- ♦ Carriage slides.
- ♦ Horizontal tool holding arm spindle.
- ♦ Grease the horizontal arm lifting cylinder.
- ♦ Grease the Bead Breaking Disc Shaft.
- Periodically check the oil level inside the hydraulic power unit with the scale and add if necessary. Before checking fluid, all cylinders must be completely retracted.



Over riding the Tool Arm Lock can cause the Tool arm to spring upwards violently causing serious injury.

Periodically adjust the Mechanical tool arm tip lock device. Prevents the arm from being moved to its "non- working position" if the Tool Head Assembly has been removed.

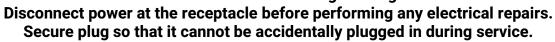


TROUBLESHOOTING





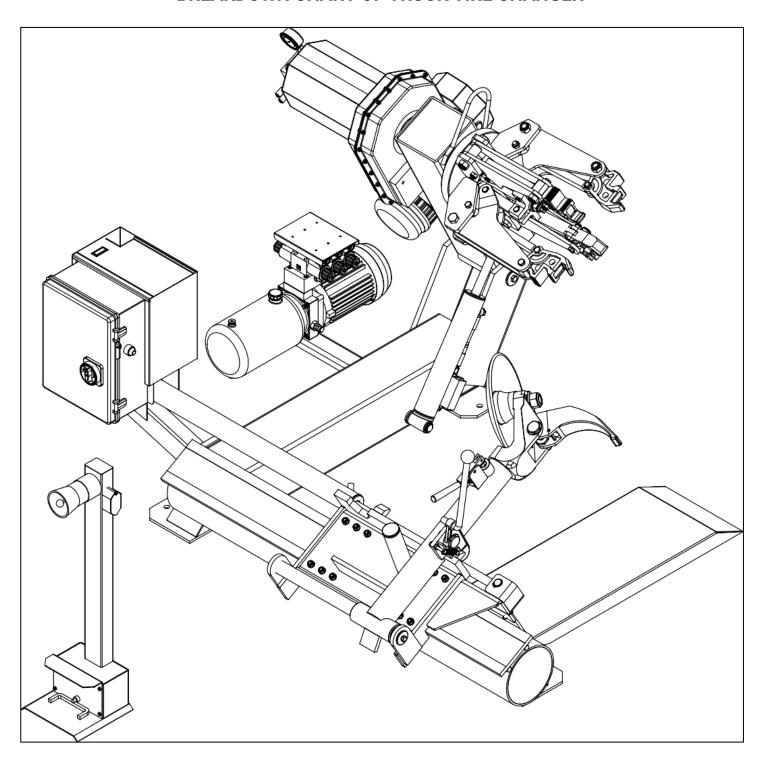
This machine contains High Voltage.

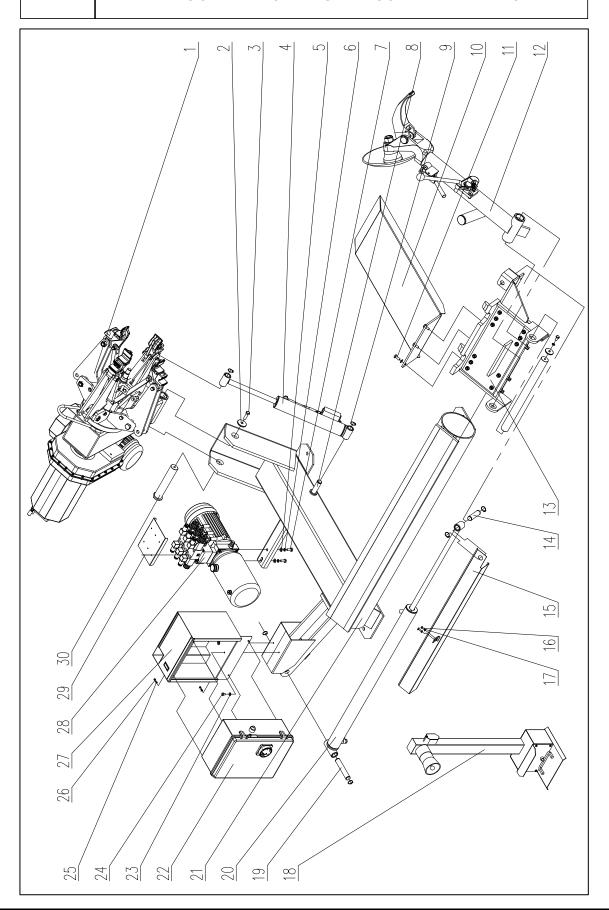




	TROUBLESHOOTING	
Trouble	Cause	Remedy
Pump motor turns but none of the hydraulic movements work.	 The automatic circuit breaker is off Low voltage section fuse is blown. Transformer is burned out. 	♦ Disconnect the machine from electric supply. Open the electric cabinet and check the automatic circuit breaker and low voltage fuses. Reset the circuit breaker or replace the fuses as needed.
Pump motor does not turn but the chuck motor operates normally.	♦ The thermal safety switch protecting the hydraulic motor is/was activated.	 ◆ Disconnect the machine from electric supply. Open the electric cabinet and check the automatic circuit breaker and low voltage fuses. Reset the circuit breaker of replace the fuses as needed. ◆ Call an authorized service center for assistance.
The thermal switch that protects the pump motor trips.	♦ The voltage of the electric line is too low.	 Check voltage on electric supply. Call an authorized service center for assistance.
The circuit breaker trips.	 ◆ The machine is not stable on the floor. ◆ The electric cabinet is not firmly attached. ◆ The voltage of the electric line is too low. 	 ♦ Check that the machine is securely bolted to the floor. ♦ Attach the electric cabinet firmly. ♦ Call an authorized service center for assistance. ♦ Check voltage on electric supply.
The transformer protection fuses easily blow.	♦ Short circuit in the electric cord connecting the portable control unit to the electric cabinet.	♦ Call an authorized service center for assistance.
The chuck does not hold the wheel firmly.	 The teeth of the chuck jaws are full of dirt or worn out. The light alloy wheel protectors are damaged or worn out. The check valve or manifold of the chuck cylinder leaks oil. 	 ◆ Clean the teeth of the chuck jaws with a wire brush. ◆ Replace the light alloywheel protectors . ◆ Call an authorized service center for assistance.

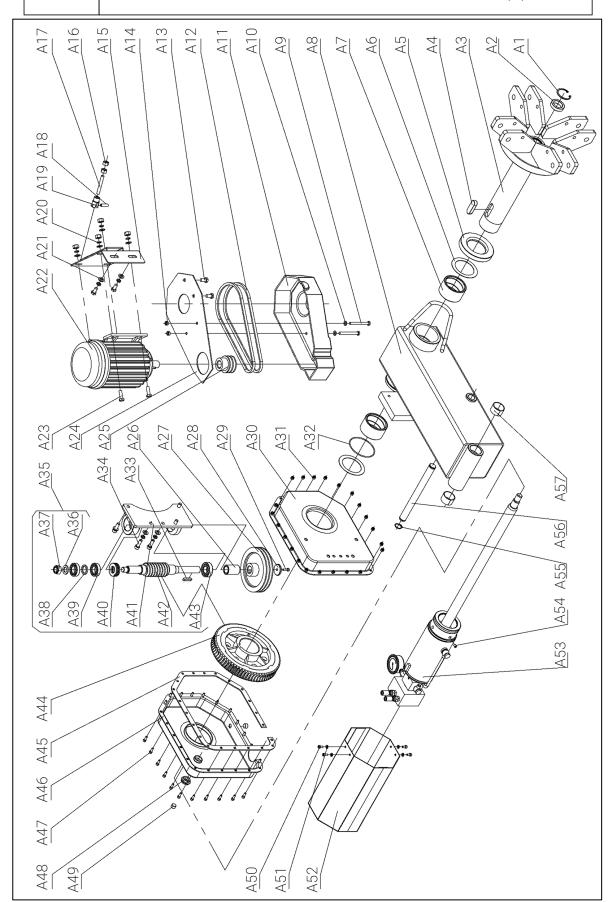
BREAKDOWN CHART OF TRUCK TIRE CHANGER



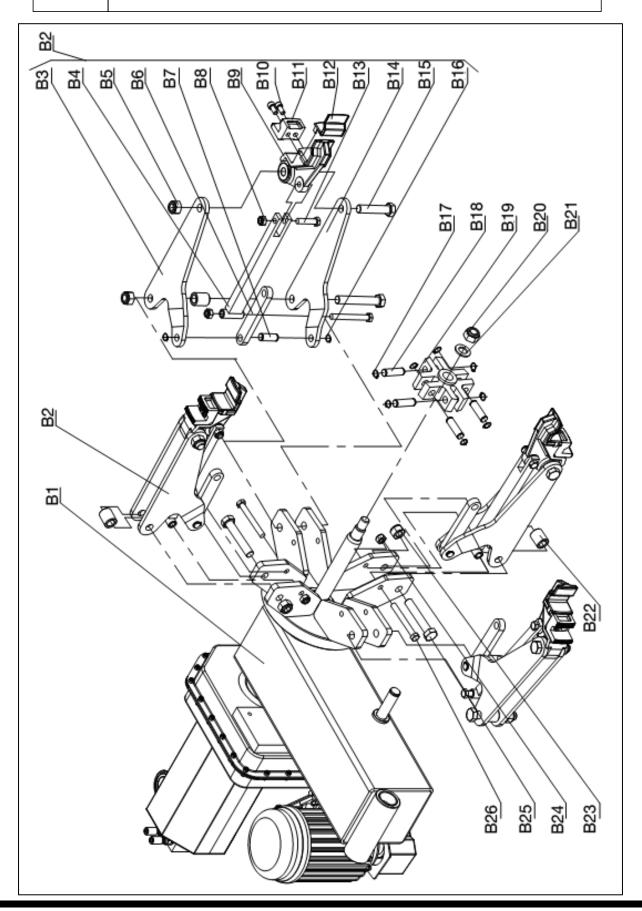


1	TRUCK TIRE CHANGER ASSEMBLY PARTS				
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
1	Lifting arm assembly	1	16	Hexagon head bolt M 6X 16	2
2	Arm shaft seal	1	17	Flat washer Ø6	2
3	Hexagon head bolt M12X40	1	18	Mobile console	1
4	Lift arm oil cylinder assembly	1	19	Fixed axle for pulley cylinder	1
5	Flat washer Ø10	5	20	Truck oil cylinder assembly	1
6	Spring washer Ø10	2	21	Seat welding assembly	1
7	Hexagon head bolt M10X25	2	22	Electronic control box	1
8	Lift cylinder fixing shaft	1	23	Flat washer Ø8	2
9	Elastic retaining ring for shaft 24	7	24	Hexagon head bolt M8X20	2
10	Assembly of the tire	1	25	Flat washer Ø5	4
11	Hexagon head bolt M10X25	3	26	Hexagon stud screw M5X12	4
12	Press tire arm assembly	1	27	Toolbox assembly	1
13	Truck, skid assembly	1	28	Pump station assembly	1
14	Wheel barrel fixing axle	1	29	Pumping Station Protective Cover	1
15	Welding of pulley shield	1	30	Rotary arm fixing shaft	1

2 TRUCK TIRE CHANGER LIFT ARM PART (1)



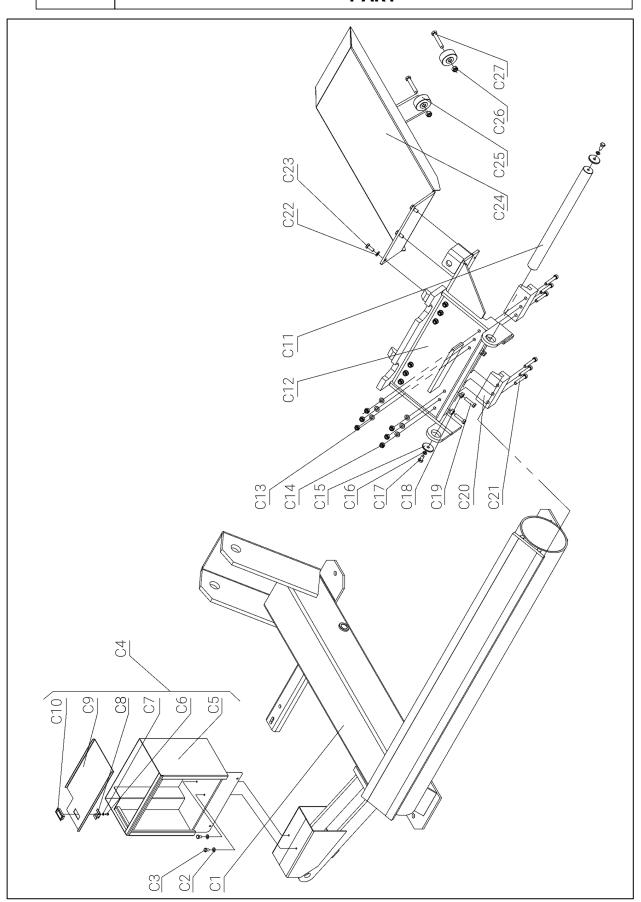
2	TRUCK	TIRE CH	ANGER LIF	FT ARM PART (1)	
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
A1	Hole retaining ring 50	1	A30	Bottom of worm gear box	1
A2	Piston rod guide sleeve	1	A31	Hexagon locking nut M16	22
A3	Spindle Welding Assembly	1	A32	O sealing ring 100 X3.1	1
A4	Flat 12 X20X60	1	A33	Flat 7 X8X36	1
A5	Spindle spacer	1	A34	Hexagon stud screw M10X30	5
A6	Spindle wear resistant pad	2	A35	Worm assembly	1
A7	Spindle wear-resistant sleeve	2	A36	Flat washer Ø18	1
A8	Lift arm welding	1	A37	Hexagon lock nut M18X1.5	1
Α9	Hexagon head bolt M8X80	2	A38	Bearing insulation	1
A10	Flat washer Ø8	2	A39	Deep groove ball bearing 6005	2
A11	Belt pulley shield	1	A40	Thrust ball bearings 51205	1
A12	General V belt	2	A41	Welding of Worm Bearing	1
A13	Hexagon head bolt M10X20	4	A42	Worm	1
A14	Hexagon nut M8	2	A43	Deep groove ball bearings 6205	1
A15	Welding of motor floor	1	A44	worm gear	1
A16	Hexagon nut M10	6	A45	Worm box gasket	1
A17	Screw M10X70	1	A46	Welding of worm gear box cover	1
A18	Elastic cylinder pin 8 X30	1	A47	Hexagon stud screw M6X16	22
A19	Motor panel adjusting sleeve	1	A48	Rotary round oil M27X1.5	1
A20	Spring washer Ø10	11	A49	Wire G3/8	2
A21	Flat washer Ø10	11	A50	Hexagon stud screw M6X12	4
A22	Electrical motor	1	A51	Flat washer Ø6	4
A23	Hexagon head bolt M10X30	4	A52	Welding of main cylinder headgear	1
A24	Cover	1	A53	Spindle Oil Cylinder Assembly	1
A25	Small leather belt pulley	1	A54	M8X12 of internal hexagon screw fastening	2
A26	Belt pulley padded sleeve	1	A55	Elastic retaining ring for shaft 24	1
A27	Large leather wheels	1	A56	Lift cylinder fixing shaft	1
A28	Belt pulley press	1	A57	SF-1 of oil-free lubricated bearings 4025	2
A29	Hexagon stud screw M6X20	1			



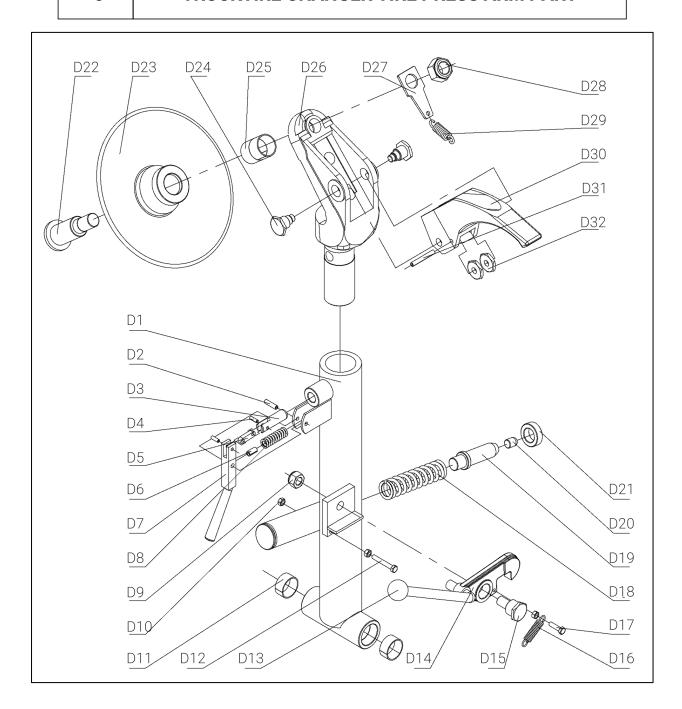
3	TRUCK	TIRE CH	IANGER LI	FT ARM PART (2)	
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
B1	Lifting arm assembly A	1	B14	Clip claw support plate (left)	4
B2	Claw assembly	4	B15	Hexagon head bolt M18X80	4
В3	Claw support plate (right)	4	B16	Shaft retaining coil 16	8
B4	Connecting rod welding	4	B17	Shaft retaining coil 16	8
B5	Hexagon locking nut M18	4	B18	Flower sleeve cylindrical pin	4
В6	Transmission pull rod	4	B19	Cross flower cover	1
B7	Pull plate cylindrical pin	4	B20	Hexagonal lock nut M20	1
B8	Hexagon locking nut M12	4	B21	Plain washer Ø20	1
В9	Claw seat	4	B22	The support plate is separated	4
B10	Internal hexagonal cylindrical screw M10X20	8	B23	Hexagon locking nut M18	4
B11	Clamping jaw C	4	B24	Hexagon locking nut M12	4
B12	Nylon safety cover	4	B25	Hexagon head bolt M18X110	4
B13	Hexagon head bolt M12X50	4	B26	Hexagon head bolt M12X100	4

4

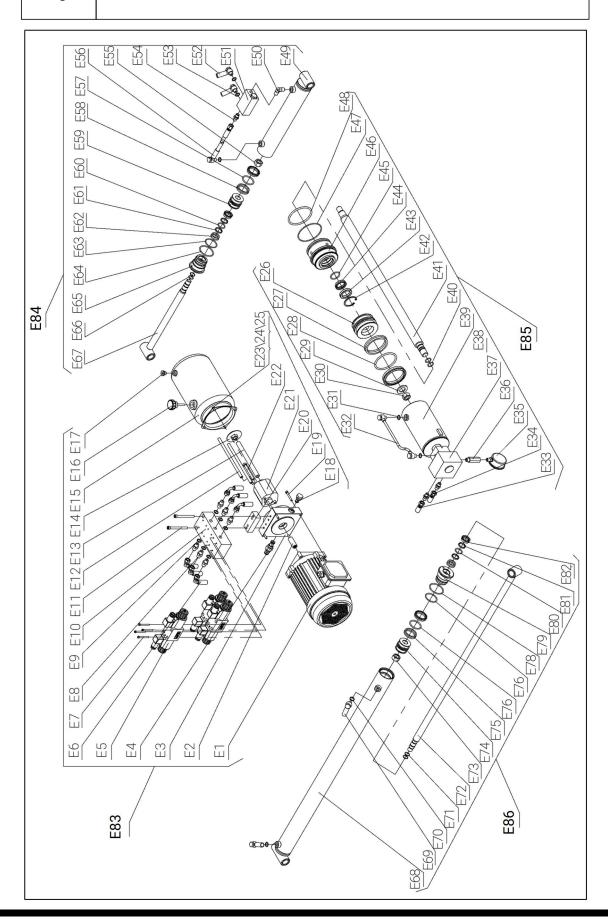
TRUCK TIRE CHANGER SEAT, PULLEY AND TIRE HOLDER PART



4	TRUCK TIRE CHAN	GER SE	AT, PULLE	Y AND TIRE HOLDER PAR	RT
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
C1	Seat welding assembly	1	C15	Guide shaft press pad	2
C2	Flat washer Ø8	2	C16	Spring washer Ø10	2
C3	Hexagon head bolt M8X12	2	C17	Hexagon head bolt M10X20	2
C4	Toolbox assembly	1	C18	Hexagon nut M10	4
C5	Toolbox welding	1	C19	Hexagon head bolt M10X40	4
C6	Cross groove head screw M4X10	1	C20	slider	4
C7	Flat washer Ø4	1	C21	Hexagon stud screw M10X70	12
C8	Portable gland	1	C22	Flat washer Ø10	3
C9	Toolbox cover	1	C23	Hexagon head bolt M10X25	3
C10	Laptop	1	C24	Trailer welding	1
C11	Tearing arm guide axis	1	C25	Pulley	2
C12	Trailer welding	1	C26	Hexagon locking nut M12	2
C13	Flat washer Ø10	12	C27	Hexagon head bolt M12X70	2
C14	Hexagon locking nut M10	12			



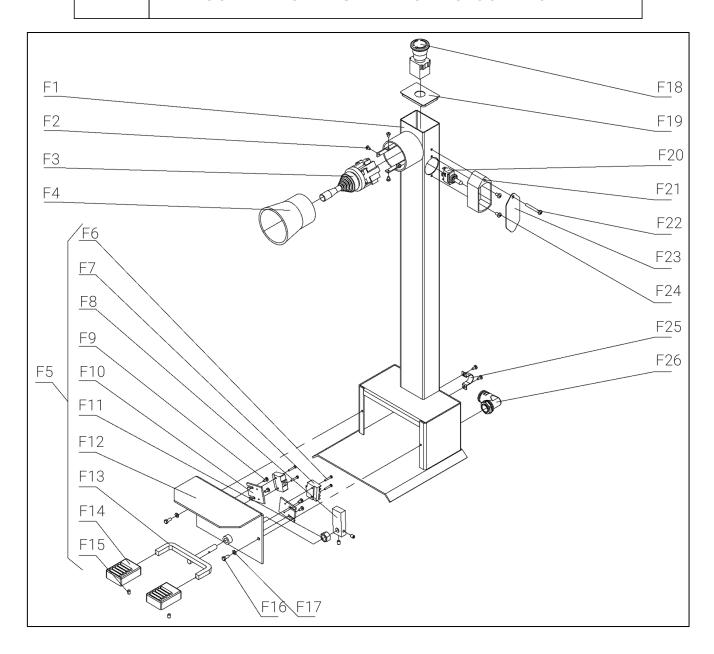
5	TRUCK TIR	E CHAN	IGER TIRE	PRESS ARM PART	
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
D1	Welding of detachable arm	1	D17	Hexagon head bolt M8X30	1
D2	Elastic cylinder pin 8 X30	1	D18	Buffer cylinder pressure spring	1
D3	Lock pin	1	D19	Buffer axle rod	1
D4	Elastic cylinder pin 6 X18	2	D20	Buffer contact	1
D5	Pin connecting plate	1	D21	Buffer cylinder head	1
D6	Elastic cylinder pin 10 X20	1	D22	Disc bolt shaft	1
D7	Lock pin handle	1	D23	Placental compression welding	1
D8	Spring	1	D24	Unscrew hook shaft	2
D9	Hexagon locking nut M18	1	D25	SF-1 of oil-free lubricated bearings 4030	2
D10	Hexagon nut M8	3	D26	Welding of tire head	1
D11	SF-1 of oil-free lubricated bearings 4020	2	D27	Spring hanging plate	1
D12	Hexagon head bolt M8X55	1	D28	Hexagon locking nut M27X2	1
D13	Handle M12XØ40 ball	1	D29	Pull spring	1
D14	Hook welding	1	D30	Removing hook	1
D15	Hook bolt shaft	1	D31	Elastic cylinder pin 8 X60	1
D16	Locking hook re tractor	1	D32	Flat nut	2



6	TRUCK TIRE CHANGER HYDRAULIC PART				
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
E1	Pump motor	1	E33	Direct hose joint M14X1.5	2
E2	Motor Gear Pump Connector	1	E34	M14X1.5 through joint	2
E3	Seat seat	1	E35	Shock resistant pressure gauge	1
E4	Liquid Flow Valve	1	E36	Instrument connection hexagonal	1
E5	Solenoid valve	3	E37	Oil separation valve	1
E6	M14X1.5° hose clamps	6	E38	M6X8 of internal hexagonal recess	2
E7	Hexagon stud screw M5X45	12	E39	Welding of spindle oil cylinder	1
E8	Grease M14X1.5 bump	6	E40	O sealing ring 20 X2.6	2
E9	Copper washer 14 X18	6	E41	Piston rod	1
E10	Valve plate	1	E42	Hole retaining ring 50	1
E11	Hexagon stud screw M8X85	2	E43	Piston rod wear resistant sleeve	1
E12	Return tubing	2	E44	YXD hole sealing ring 35	1
E13	Feed pipe	1	E45	O sealing ring 34.5 X3.55	1
E14	Thin oil filter core	1	E46	Main shaft cylinder connector	1
E15	Fuel tank	1	E47	O sealing ring 84 X5.7	1
E16	Fuel tank cover	1	E48	O sealing ring 92.5 X3.1	1
E17	Oil plugging	2	E49	Lift arm cylinder welding	1
E18	One-way valve	1	E50	Oil tank elbow M14X1.5	1
E19	Hexagon stud screw M6X45	4	E51	Hydraulic one-way valve B	1
E20	Seat Valve Plate Connector	1	E52	Articulated hose M14X1.5	2
E21	Gear pump	1	E53	Copper washer 14 X18	3
E22	Hexagon stud screw M8X80	2	E54	M14X1.5 through joint	1
E23	Hexagon head bolt M6X12	4	E55	Hexagon nut M18X1.5 for fine teeth	1
E24	Flat washer Ø6	4	E56	Lift cylinder oil press	1
E25	Spring washer Ø6	4	E57	O sealing ring 42 X4	1
E26	Main shaft cylinder piston	1	E58	ODU sealing ring 504210	2
E27	ODU seal 958314	2	E59	Piston rod	1
E28	O sealing ring 84 X5.7	1	E60	O sealing ring 25 X3.1	1
E29	Flat washer Ø24	1	E61	Guide 29 X25X4	2
E30	Hexagon nut M24X2 for fine teeth	1	E62	IDU sealing ring 253310	2
E31	Copper washer Ø14 X18	2	E63	O sealing ring 45 X3.1	1
E32	Oil cylinder tube welding (copper tube)	1	E64	O sealing ring 53 X3.55	1

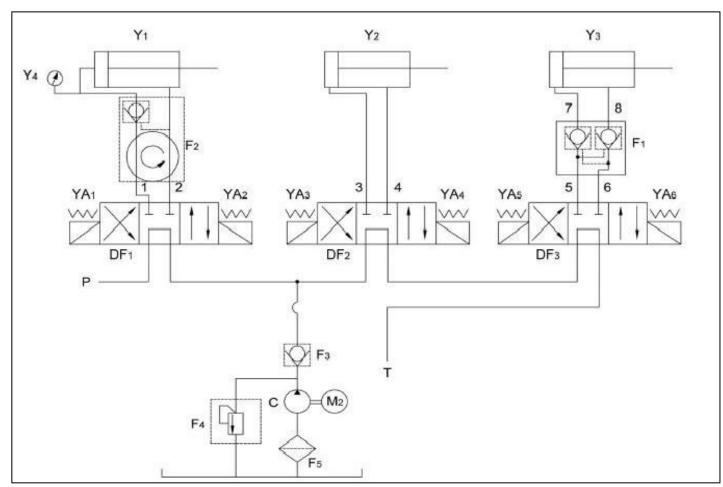
6	TRUCK TIRE CHANGER HYDRAULIC PART				
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
E65	Oil cylinder cover	1	E76	O sealing ring 42 X4	1
E66	O sealing ring 16 X1.8	2	E77	O sealing ring 45 X3.1	1
E67	Lift arm piston rod welding	1	E78	O sealing ring 53 X3.55	1
E68	Oil cylinder welding	1	E79	Oil cylinder cover	1
E69	articulated hose M14X1.5	2	E80	O sealing ring 25 X3.1	1
E70	Copper washer 14 X18	2	E81	Guide 29 X25X4	2
E71	O sealing ring 16 X1.8	2	E82	IDU sealing ring 253310	2
E72	Welding of piston rod of pulley cylinder	1	E83	Pump station assembly	1
E73	Hexagon nut M18X1.5 for fine teeth	1	E84	Lift arm oil cylinder assembly	1
E74	Piston	1	E85	Spindle Oil Cylinder Assembly	1
E75	ODU sealing ring 504210	2	E86	Truck oil cylinder assembly	1

7 TRUCK TIRE CHANGER ELECTRIC CONTROL PART



7	TRUCK TIRE CHANGER ELECTRIC CONTROL PART					
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY	
F1	Electric box welding	1	F14	Foot pedal	2	
F2	Cross groove head screw M4X6	4	F15	M6X8 of internal hexagonal recess fastening screw	4	
F3	Cross switch	1	F16	Hexagon head bolt M5X12	2	
F4	Rubber cover	1	F17	Flat washer Ø5	2	
F5	Support assembly	1	F18	Stop button	1	
F6	Cross groove head screw M3X18	4	F19	Top cover welding	1	
F7	stroke switch	2	F20	Twist switch	1	
F8	Swing bar	1	F21	Switch gear	1	
F9	Cross groove head screw M4X8	4	F22	Cross groove head screw M5X40	1	
F10	Switchboard	2	F23	Cover	1	
F11	Hexagon nut M12	1	F24	Cross groove head screw M5X8	4	
F12	Support welding	1	F25	Pipe clamp	1	
F13	Square Rod Welding	1	F26	Wire right angle plug	1	

HYDRUALIC SCHEMATIC DIAGRAM



REF NO.	DESCRIPTION	QTY
Y1	Thick Hydraulic Cylinder	1
Y2	Long hydraulic Cylinder	1
Y3	Short Hydraulic Cylinder	1
Y4	Pressure Meter	1
1,2	Assembly of Square Bend and Pipe	2
3,5,6	Straightway Found Pipe Joint	3
4	Straightway Found Pipe Joint	1
7	Hydraulic Cylinder Tie-in	1
8	Hydraulic Cylinder Tie-in	1
M2	Motor	1
F1	Hydraulic Lock	1
F2	Rotary Pipe Lock	1
F3	Check Valve	1
F4	Relief Valve	1
F5	Hydraulic Filter	1
DF1-DF3	Hydraulic Solenoid Valve	3
С	Gear Pump	1
Р	Feed Oil Circuit	
Т	Back Oil Circuit	

ELTCTRICAL SCHEMATIC DIAGRAM

