Daytona

AUTOMOTIVE EQUIPMENT

CANADIAN OWNED AND OPERATED
SINCE 1999

C895TCLL LEVER-LESS TIRE CHANGER

USER MANUAL

PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION/OPERATION OF THIS EQUIPMENT

Model # C895TCLL Serial # _____

DAYTONA AUTOMOTIVE EQUIPMENT | A DIVISION OF BUDGET AUTOMOTIVE EQUIPMENT INC
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CONTENT

Symbol and code printed

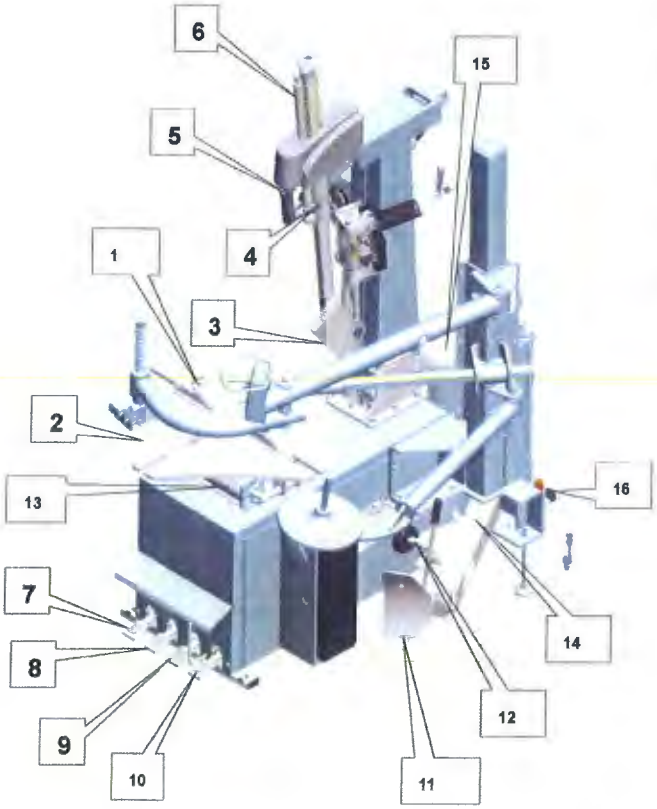
In the manual, the following symbols and codes are for the convenience of reading.

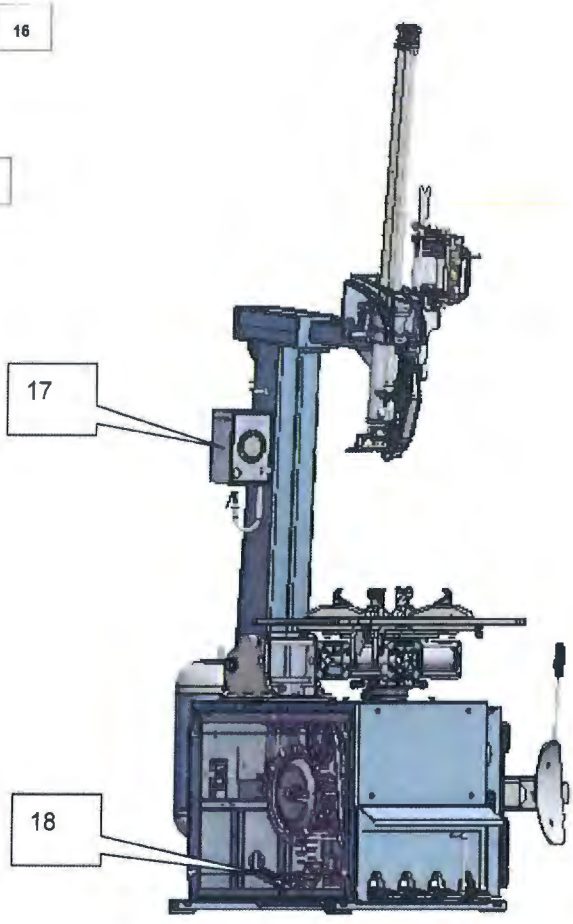
	need careful operation
	prohibited
	may cause dangerous to the operator
Bold	Important information

	**Warning: Before lifting and any adjustment, carefully read the Chapter 7 "Installation" among which it is the operation suitable for the best lift.**

unreasonable.

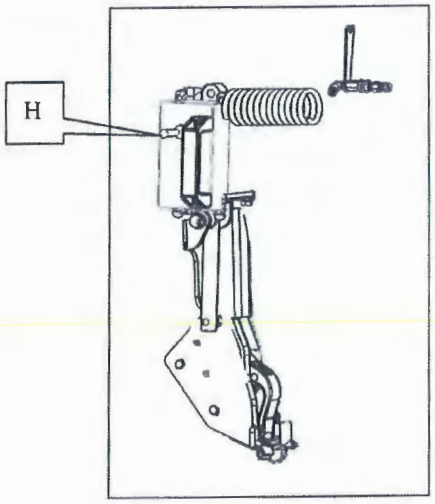
2.2 Instruction to the part of the machine



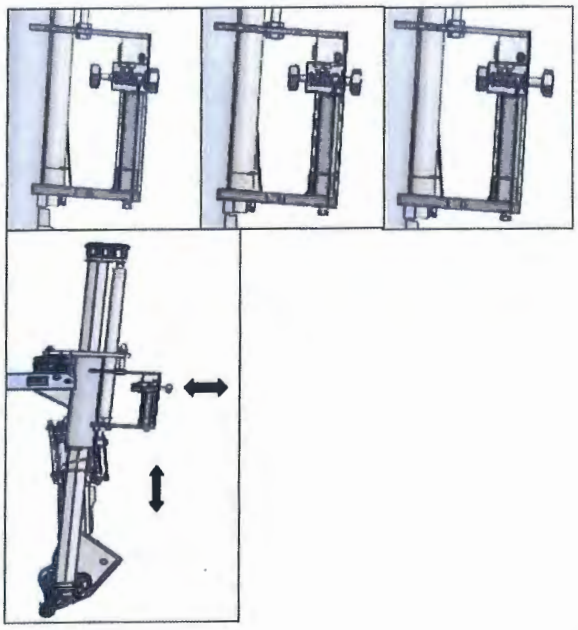


1. Clamp
2. Turntable
3. Hook tool device
4. Horizontal arm
5. Lock handle
6. Lift cylinder
7. Column tilt back pedal
8. Clamping pedal
9. Bead breaker pedal
10. Turntable rotation pedal
11. Bead breaker blade
12. Bead breaker arm
13. Clamping cylinder
14. Bead breaker cylinder
15. Air tank
16. Air regulator
17. Inflation gauge box
18. Inflation pedal

Automatic hook tool device (3) is the main part to mount/demount the tire. Press downward the rod H to extend the hook and press upward the rod to return the hook.



Control the hexagon shaft assembly up/ down and lock/unlock by lock valve (5).



Press to position (1) to lock the demounting arm.

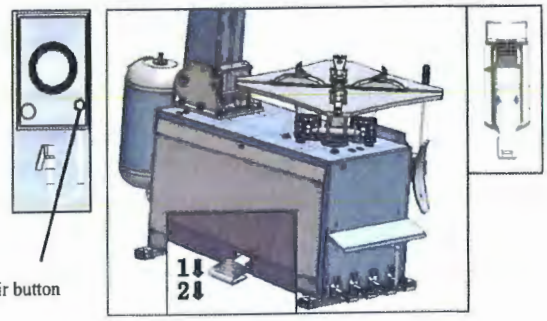
Press to position (2) to unlock the demounting arm and the automatic hook tool device move down to the rim or lower.

Press to position (3) to unlock the demounting arm and the automatic hook tool device move up the top position.

Inflate to the tire by inflation gauge box (17).

The pedal (18) is the switch to control inflation.

Step downward to position (1) to inflate and step downward to position (2) to burst inflation through the exhaust hole on slide covers.



Deflation air button

2.4 SAFETY LABEL POSITION DIAGRAM

Pay attention to keep the safety labels complete. When it is not clear or missing, you should change the new label.

You should let the operators see the safety labels clearly and understand the meaning of the label.

2.4 Technical specification（standard configuration）：

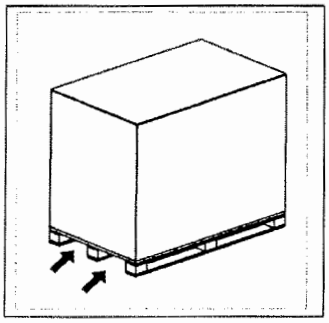
Outward clamping size（inch）	11-24
Inward clamping size (inch)	13-26
Max. tire size（inch）	24（610mm）
Max. tire breadth（inch）	12（305mm）
Bead breaking force（10bar）	2800kg
Work pressure	8-10bar（120-145PSI）
Max. inflation pressure	3.5bar（50PSI）
Power supply	220V/380V230V/400V 3PH
	110V 220V 230V 1PH
Motor power	0.75（3phase, single speed）
	0.85/1.1kw（3phase, dual speed）
	1.1kw（single phase）
Rotation speed	7-14rpm
Max. spindle torque	1200Nm
Packing size(disassembly)	1400×1020×1160
Packing size(assembly)	1400×1020×2050
N.T	243kg 310kg
Work noise	＜70dB（A）
Ambient temperature	-5℃~45℃
R.H	30%~95%
Altitude	Max. 1000M

Chapter 3 Transportation, Unpacking and Storage

3.1 Transportation

The transportation of the tire changer needs the original package.

The tire changer packed needs to be transported by the forklift with the proper load. Insert the fork into the position indicated in Fig 3.1.



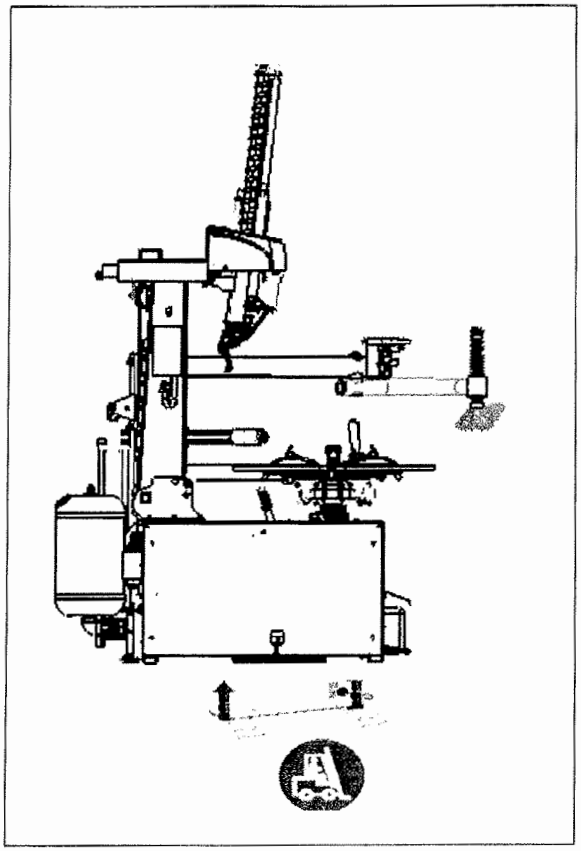


Fig 3.1

package material to check if the machine damage or not and if the spare parts completed.

4.2.4 Keep the package material far away from the working site and deal with it properly.

4.2.5 Column installation

Position the body base on the ground and unpacking the accessory box and take out the rotation shaft assembly . （Fig4-1） Clean and lubricate.

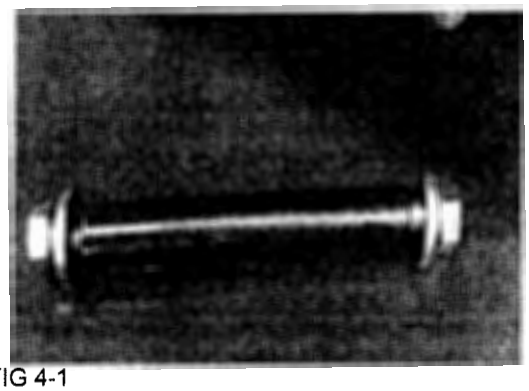
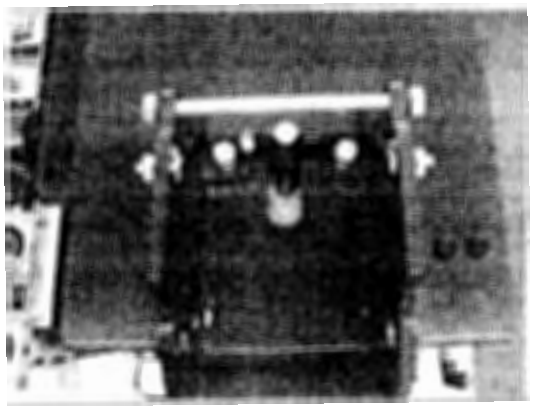


FIG 4-1

4.2.6 Remove the fixture screws on the tilt cylinder (FIG 4-2).



4.2.8 Put the column on the machine body and insert the rotation shaft into the installation hole (FIG4-3), then assemble the washers and nuts and tighten them. The tightening torsion is 70Nm.

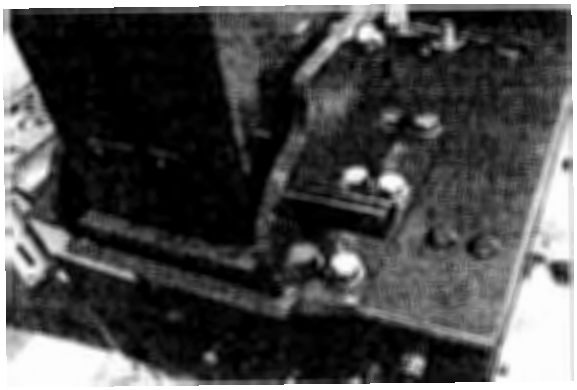


FIG 4-3

4.2.9 Fix the rod of the tile cylinder to the bottom of tile column using screw though theΦ12 hole (FIG4-4) and tighten it with nut. (FIG4-5)

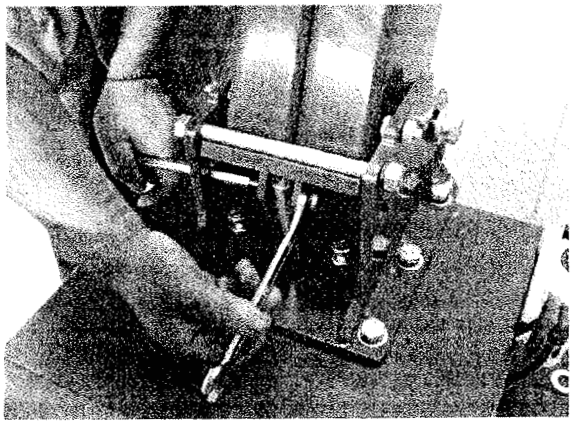


FIG 4-4

Support the hexagon shaft when disassemble the cap to avoid drop down damage the machine or injures any person.

4.2.13 Install the protective cover of the horizontal arm: get the cover and screws from the accessory box then put the cover on the hexagon bar (FIG 4-14), insert the screw from outside and through the fixture bushing into the installation hole and tighten them.

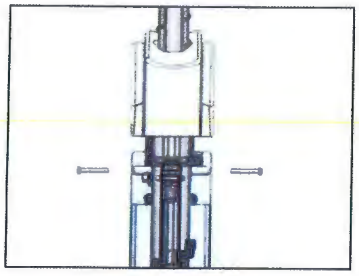
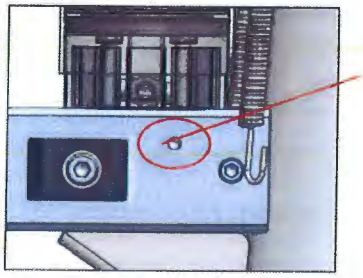


FIG 4-14



4.2.14 Installation of bead breaker blade:

1. Hang the spring on the machine body and insert the blot into the installation hole across the bead breaker then fix them with nut and washer. (FIG 4-16)

2. Remove the adjusting bushing from the top of the cylinder rod then fix it in slide bushing hole and tighten them. (FIG 4-17)

3. One side of the spring hangs on machine body and the other side hangs bead breaker arm. (FIG 4-18)

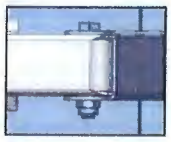


FIG 4-16

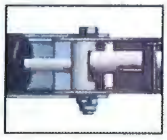


FIG 4-17

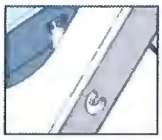
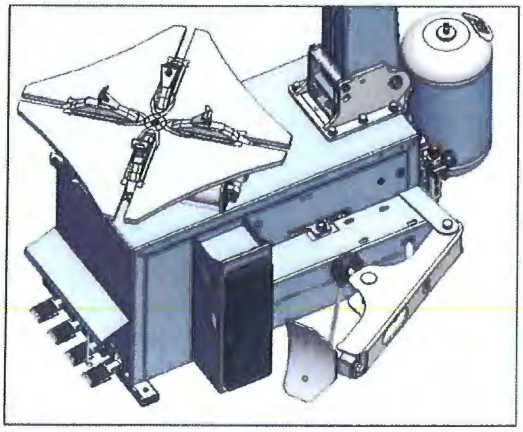


FIG 4-18



4.2.15 Installation of air regulator:

Take out the air regulator （Fig 4-19）from the accessory box and install the air source joint at the inlet of the air regulator（Fig 4-20）. After installation, insert the air source plug in into the air source joint.

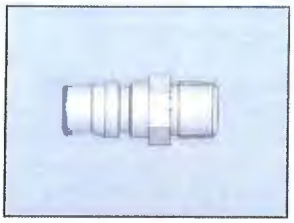


FIG 4-19

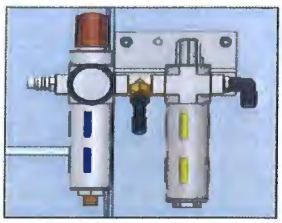


FIG 4-20

Note: When installation, you should cut off the air source!

4.2.16 install and connect the inflation gauge box:

Fix the inflation gauge box on the column with

	We suggest equipping the pressure regulating device.

5.1 Bead breaking

	You should be very carefully when breaking bead. When bead breaker pedal drives the bead breaker arm move quickly and powerful, the bead breaker arm will be danger to or crush all the things in its stroke area.

Check if the tire is deflated, if not, completely deflate the air in the tire.

Completely close the turntable clamping jaws.

	When bead breaking, if the clamping jaw at the open position, it will be very dangerous to the hand of the operator. During bead breaking, do not touch the tire wall with your hand.

Lean the wheel against the wheel support at the right side of the body of the tire changer (Fig5-1). Lean the bead breaking blade against the bead about 1cm from the tire. Note it is against the tire not the rim. Press down the pedal, move the blade. When the blade moves to the end of its travel or when breaking the bead, release the pedal and slightly rotate the tire until the tire is completely come off from the rim

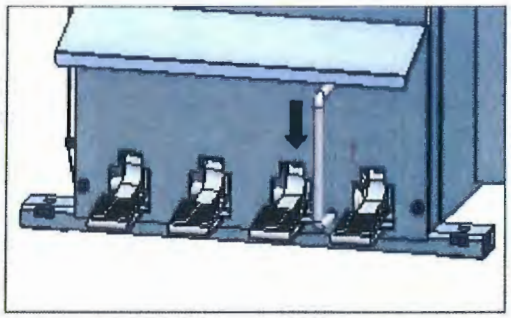


FIG 5-1

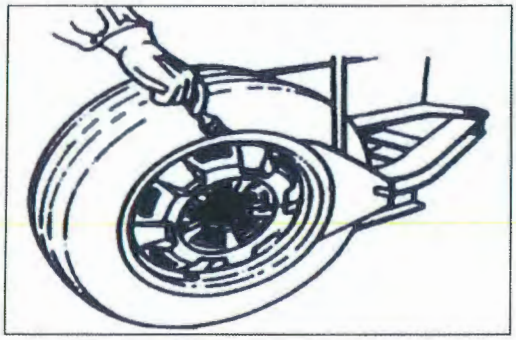


FIG 5-2

	Please use the special lubricating grease. Spread the grease on the bead. The grease must be nontoxic, noninjurious and apyrous. Not use of grease will cause the damage to the bead.

	To avoid damaging the tube, the valve should at the right side of the tool head. The distance is 10cm.

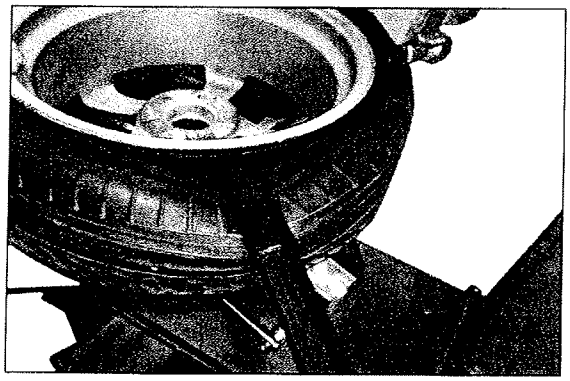
5.2 Demount tire

	Before operation, make sure all the weight has been detached from the tire.

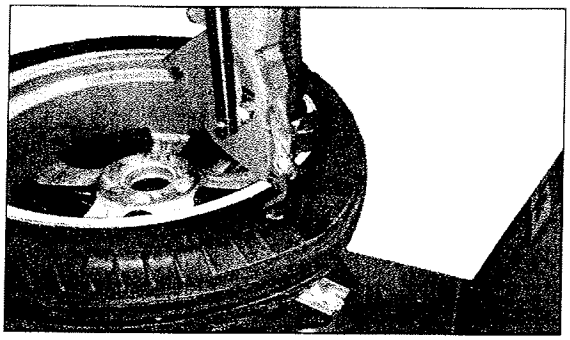
FIG 5-8

⊗	Necklace, bracelet, loose clothed and movable parts all can be danger to the safety of the operator.

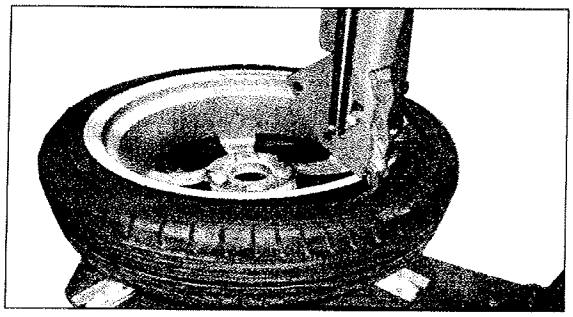
5.2.3 Use the press roller to separate the tire and rim like below picture.



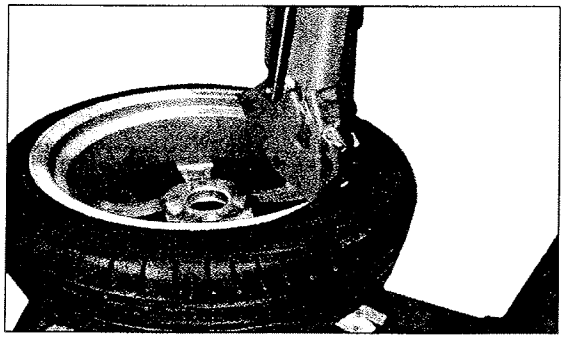
5.2.4 Pull the control valve handle downward to extend the hook tool device.



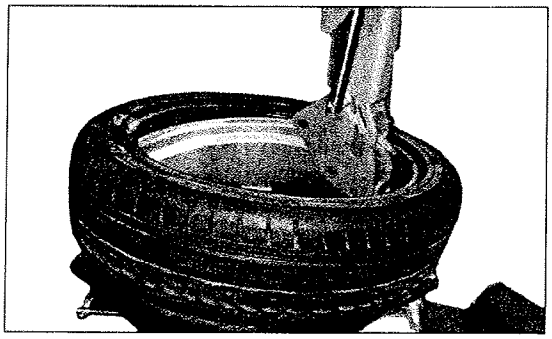
5.2.5 Insert the hook device into the tire.



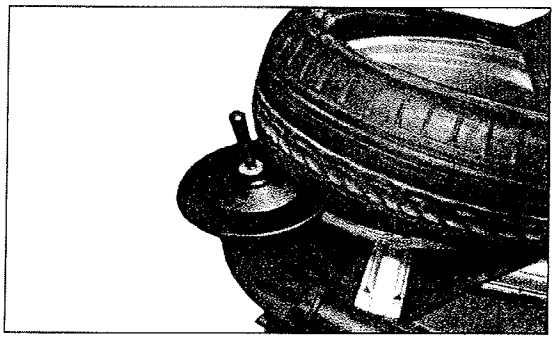
5.2.6 Pull the control valve handle upward to back the hook device and the hook separates the tire from the rim.



5.2.7 Step the pedal to rotate the turntable with the tire clockwise to separate the up side of the tire.

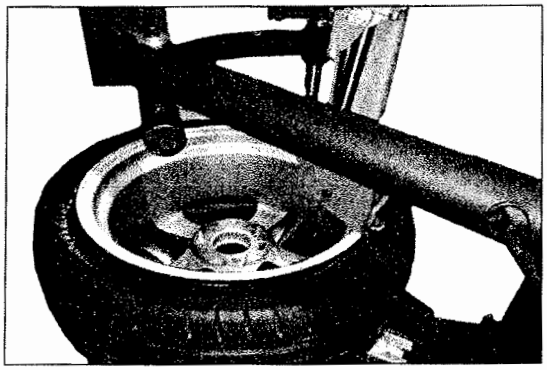


5.2.7 Use the round plate on the assistant to lift the tire from low side.



5.2.8 Pull the control valve handle downward to extend the hook tool device.

5.3.4 Rotate the turntable with the tire clockwise to mount the up side of tire.



Move the tire making the bead pass under the front end of the tool head, use your hand to press the bead into the groove of the rim, Step down the pedal making the turntable rotate clockwise. Continue this operation until the tire completely into the rim. Put in the tube and repeat the above operation.

	The most important is to check the tire and rim to avoid the exploration in the process of inflation. Before mounting tire, you should make sure that: The thread and tire not damaged, if there is any damage, do not mount the tire. Not find any dent and pay attention there is not any scratch onside the Aluminum alloy rim. It is very dangerous especially when inflation.
	When lock the rim, not put your hand under the tire. The correct operation is to make the tire in the center of the turntable.
	Make sure there is none standing behind the column when tilt down the column.
	Do not put your hand on the wheel, for the column will crush the operator's hand in between the rim and tool head when the column back to its work position.
	To avoid the industrial accident, the hand and part of your body should be kept away from the tool arm when the turntable is rotating.
	When demount/mount the tire, the turntable should rotate clockwise. The counterclockwise is only used when the incorrect operation.

Chapter 6 Inflation

	When inflating, you should be very carefully. Strictly follow the following instruction. For the design and manufacture of the tire changer not protect the persons nearby when the tire suddenly exploded.
	Tire exploration may cause the serious damage to the operator and even death. Carefully check if the size of the rim is same to the size of the tire. Before inflation, you should check if there is any fault or wear on the tire. Check the air pressure after inflating. The max. Inflation pressure set up is 3.5bar=51psi. Do not exceed the pressure value the manufacturer suggest and keep your hands and body far from the tire.

The routine maintenance described in the manual is necessary to operate the machine correctly and prolong the life of the machine. If not maintenance often, it will affect the operation and reliability of the machine and may cause the dangerous to the operators or the others near the dangerous area.

	Cut off the power supply and pneumatic source before any maintenance.

It must be the professional personnel to use the original parts to change the parts with fault.

It is prohibited to detach and modify the safety device (valves to limit or change the pressure)

	We hereby state that the manufacturer will not hold any responsibility to the damage arising from the use of the spare parts supplied by the other manufacturers or modification of the safety device.

7.2 Maintenance

Turntable: Weekly clean the turntable using the diesel oil avoiding the existing of the dust. Lubricate the clamping jaw and guide rail every 30days. (FIG 7.1) if necessary, loosen the screws to lubricate. (FIG 7-2)

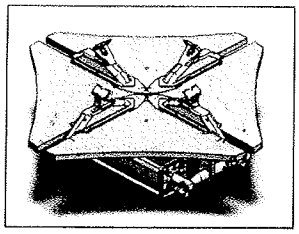


FIG 7-1

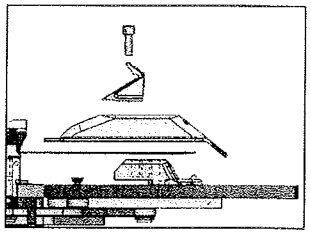
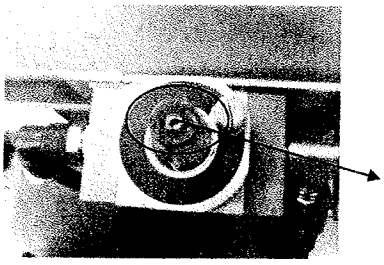


FIG 7-2

Air regulator: Check if it will fill one drop of oil when step the pedal for 3-4 times, if not, use the top screw to adjust(Fig 7-3). Rotate the oil cup to fill the oil (FIG 7-4) and only suitable for lubrication the air way using ISO VG stickiness and ISO HG degree oil.

Note: set up well the system press before leave the factory and don't adjust the pressure valve privately.



Adjust the oil here.

FIG 7-4

Rotate no power: Check if the belt is loose. Detach the driven belt through the adjustment screw (FIG 7-5) on the special motor rack.

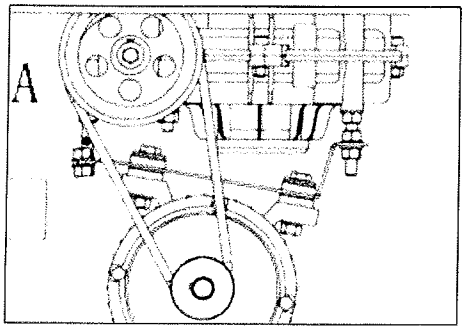
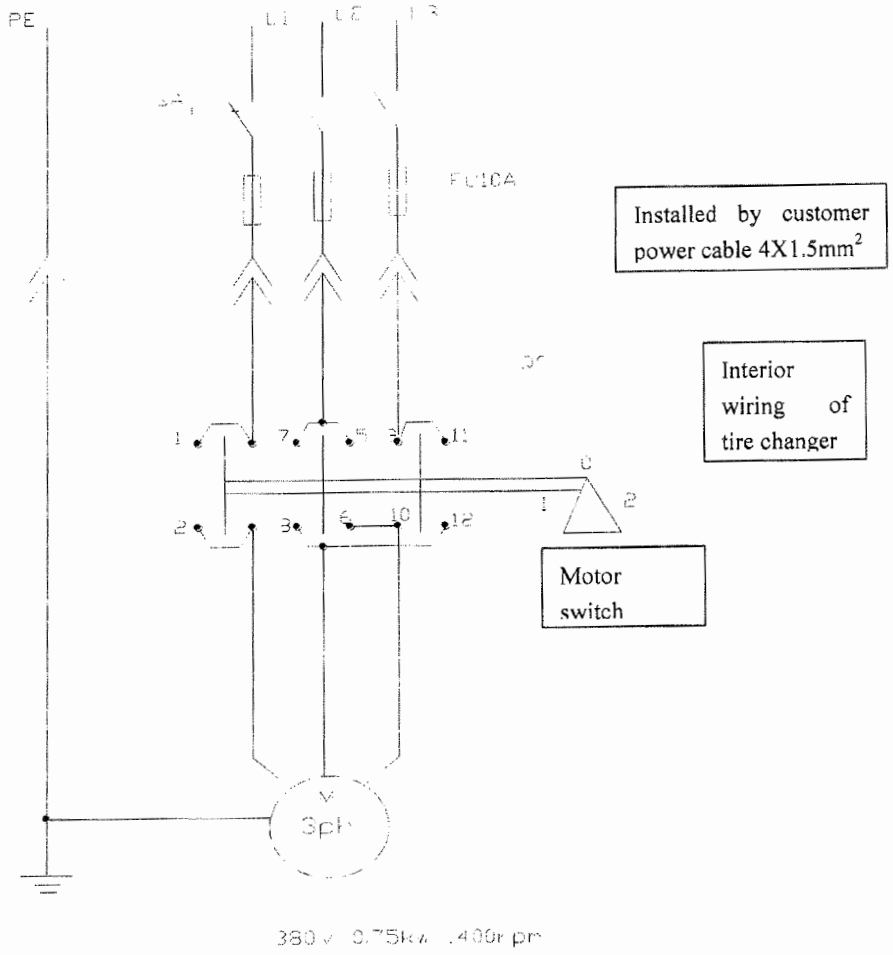


FIG 7-5

Chapter 8 Troubleshooting

TROUBLESHOOTING	REASON	SOLUTION
Turntable rotates in one direction.	Universal switch contact burned	Change Universal switch
Turntable does not rotate.	Belt damage Belt too loose Motor or power source have problems Universal switch contact damage	Change belt Adjust the tension of the belt Check motor, power source and power source cable Change motor if motor burned Change Universal switch
Turntable cannot clamp the rim as normal	Claw worn Clamp cylinder air leakage There's clearance between claw and rim.	Change claws Change the air leakage sealing parts Adjust the slider cover and connect plate.
Quadric and hexangular shaft cannot lock	Lock plate not in position Lock cylinder air leakage	Adjust the adjust screw of the lock plate Change the cylinder sealing washer
The horizontal arm fault The vertical movement of the hexangular jamming	The lock position of the quadric lock position not correct The lock position of the hexangular lock position not correct	See Chapter 5 Adjust the quadric/hexangular lock plate
Column tilt backwards or the return too fast or slow	The deflate of the column cylinder too fast/slow and the air source pressure too slow	Open the side panel and adjust the throttle (3.2.1)
Chassis pedal not return.	Pedal return spring damage	Chang torsion spring
Motor not rotate or the output torque not enough	Drive system jam Capacitor broken down Voltage not enough Short-circuit	Remove the jam Change capacitor Wait for the restore of the voltage Remove
Cylinder output force not enough	Air leakage Mechanic fault Air pressure not enough	Change sealing parts Remove the fault Adjust the air pressure to meet the requirement

380V Electrical scheme



Wiring scheme of tire changer 3 phase 380V

Pneumatic schematic diagram