



Operation manual

L8001

Dear customers,

Very pleased that you will purchase and use the tire changer produced by our company.

Warning





- This instruction manual is the important part of the product. Please read it carefully.
- Keep it properly in order to maintain and service.
- This machine is only applied to mount, demount and inflate the tire in the specified scope and not for any other purpose.
- The manufacturer will not be responsible for the damage arising from the improper operation.







NOTE

- This machine should be operated by the special trained qualified personnel. When operating, the unauthorized personnel will be kept far away from the machine.
- Please note the safety label stuck on the machine.
- Operators should wear safety protective facilities such as working suit, protective glasses, and eye plug and safety shoes. Keep your hands and body from the movable parts as possible as you can. Necklace, bracelet and loosen clothing may cause dangerous to the operators.
- Tire changer should be installed and fixed on the flat and solid floor. The more than 0.5m of distance from the rear and lateral side of the machine to the wall can guarantee the perfect air flow and enough operation space.
- Do not place the machine in the site of high temperature, high humidity, and dust and with flammable and corrosion gas.
- Without the permission from the manufacturer, any change on the machine parts will cause injury/damage to the machine/operator.
- Pay special attention that the tire changer should be operated under the specified voltage and air pressure.

- If you want to move the tire changer, you should under the guidance of the professional service personnel.

Safety Label Instruction

	<p>Be sure to read all warning labels and instruction manual prior to operation of this machine.</p>
	<p>Keep hands clear of bead area when inflating.</p>
	<p>Always wear safety glasses when operating this machine.</p>
	<p>Pinch point keep hand clear.</p>
	<p>Stand clear while inflating tire. Tire or wheel failure under pressure may cause serious injury or death.</p>
	<p>Moving parts do not wear loose clothing long hair or jewelry.</p>

	<p>When breaking bead, the bead breaking blade will quickly move leftwards.</p>
	<p>Note: when press the tire, the opened clamp cylinder may injury the hand of the operator. Remember, do not touch the sidewall of the tire.</p>
	<p>Do not reach any part of your body under the demount tool.</p>
	<p>When clamping the rim, do not reach your hand or other parts of the body in between the clamp& the rim.</p>
	<p>Do not stand behind the column to avoid the column from injuring the persons when swing.</p>
	<p>Electrical shock !</p>

model:

rated voltage: Phase voltage hertz

factory code:



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CHAPTER 1 BRIEF INTRODUCTION

1.1 BRIEF INTRODUCTION

This series of equipment is the tire changer with fixed column and rocker arm tire changer. It is suitable to mount, demount and inflate all types of motorcycle tire with tube & tubeless. The operation is easy, convenient, safety and reliable. It is the necessary equipment for the auto service shop and tire shop.

The machine can be equipped with the assistant to adapt to demount and mount the low profile and stiff tires.

1.2 EQUIPMENT OVERALL DIMENSION

model	L	B	H	W
L8001	950mm (337.4")	1250mm (49.3")	1600mm~1940mm (63"~76.4")	190Kg (418.9LB)

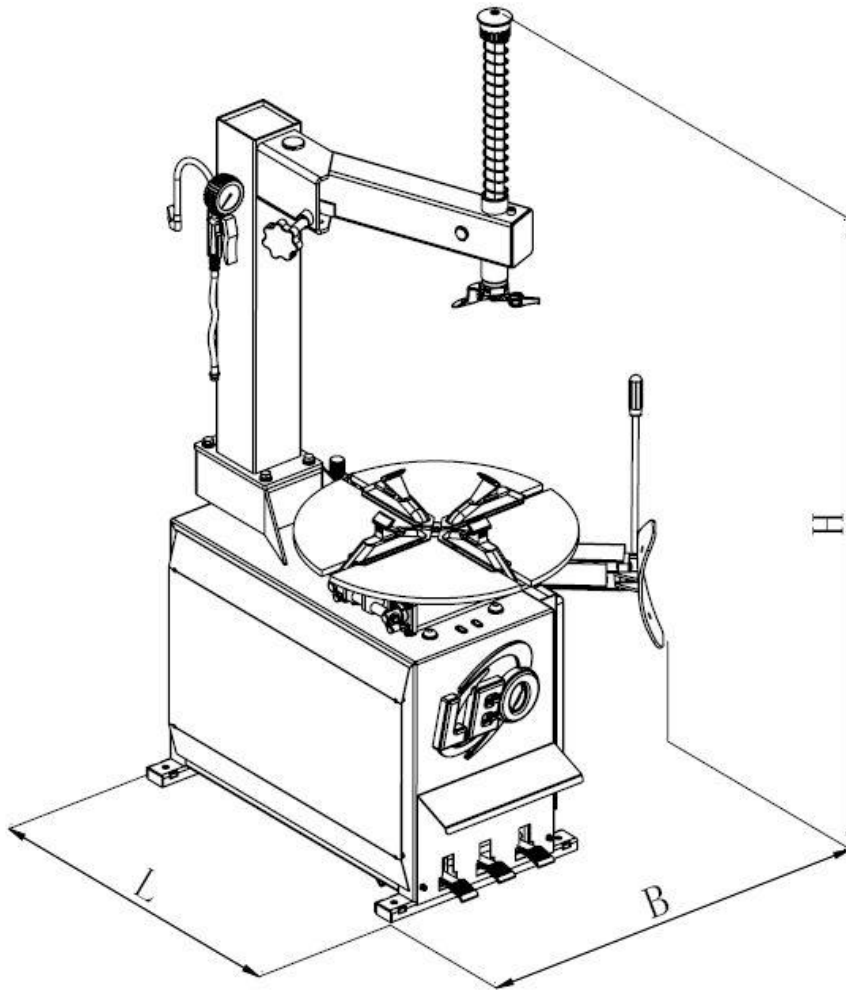


FIG1

1.3 TECHNICAL PARAMETER

Operation pressure: 8-10bar (116~145 Psi)

motor: 60Hz110V 1.1Kw (0.82HP)

turntable speed: 6.5rpm

noise: <70dB (A)

1.4 APPLICATION SCOPE

model	Max. wheel diameter	Max. wheel width	rim diameter (outer clamp)	rim diameter (inner clamp)
L8001	960mm(37.8")	3"-12"	10"~18"	12"~21"

1.5 ENVIRONMENT REQUIREMENT

ambient temperature 0℃~45℃ (32℉~113℉)

relative humidity 30~95%

Sea level max.1000M (304.8ft)

Without dust and flammable and explosive gas

The operation space around the machine will not smaller than the indicated in FIG2



If the machine is installed outdoors, you must have the protective sheds to protect the rain and sun. It is forbidden to use in the site with the flammable gas!

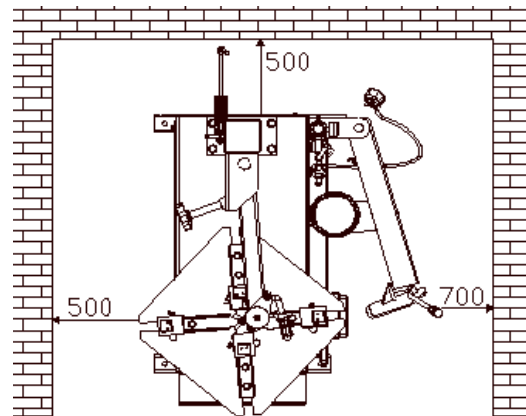


FIG2

CHAPTER2 CONFIGERATION AND OPERATION

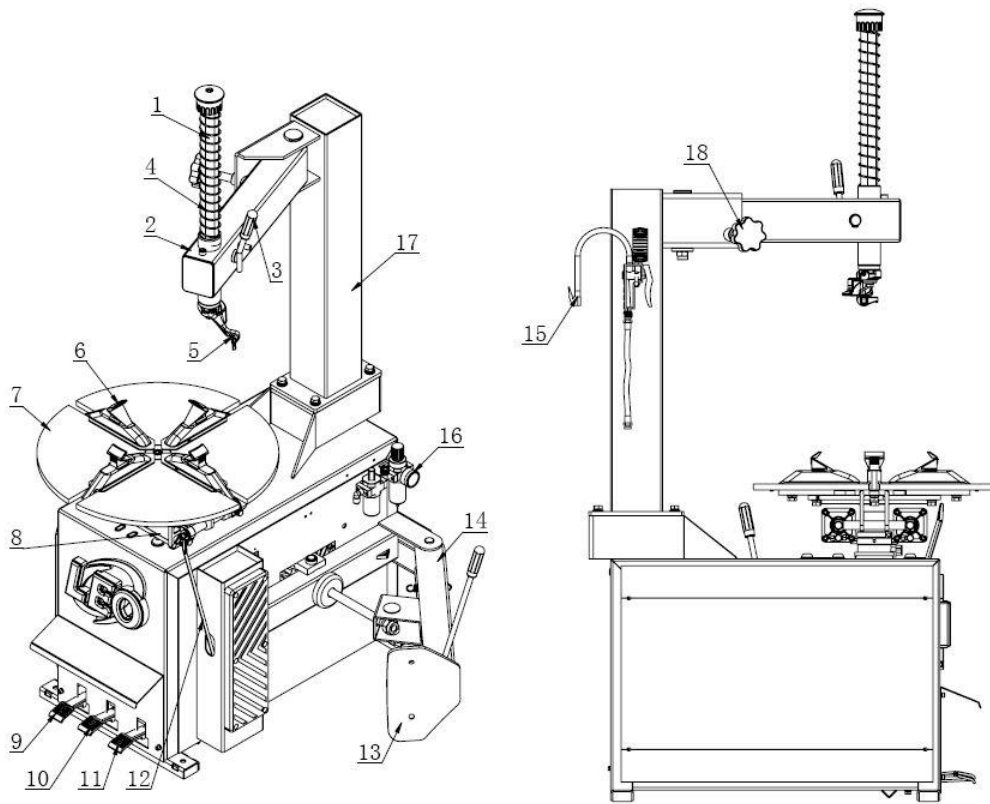


FIG3

- 1 —vertical shaft spring
- 2 —swing arm
- 3 —lock handle
- 4 —hexagon shaft
- 5 —demount head
- 6 —claw
- 7 —turntable
- 8 —clamp cylinder
- 9 —motor pedal
- 10 —clamp pedal
- 11 —tire press pedal
- 12 —crowbar
- 13 —bead breaking blade
- 14 —tire press arm
- 15 —inflation gun
- 16 —air regulator
- 17 —column
- 18 —lock wheel

CHAPTER 3 INSTALLATION AND CALIBRATION



Before installation and debug, carefully read this manual. The unauthorized change on the parts and spare parts of the machine will cause the damage on the machine.

- Installation and debug personnel should have the specific electrical knowledge.
- Operators must be trained and authorized.
- Before installation, carefully read the equipment list. If any question, please contact with the dealers or our company.
- To ensure the success of the installation and debug, please prepare the following common tools: Two wrenches(10"), one socket wrenches, one set Allen Key, one pincer pliers, one screw driver, one hammer and one multi-purpose meter.

3.1 UNPACK

3.1.1 According to the de-package instruction on the package box, to detach the box and remove the package material to check if the machine damage or not and if the spare parts completed.

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

3.2 INSTALLATION

3.2.1 After un-package the package carton, take out accessory boxes, and column assembly. And position the body according to the FIG4. Remove the bolts, elastic washer and plate washer on the body.

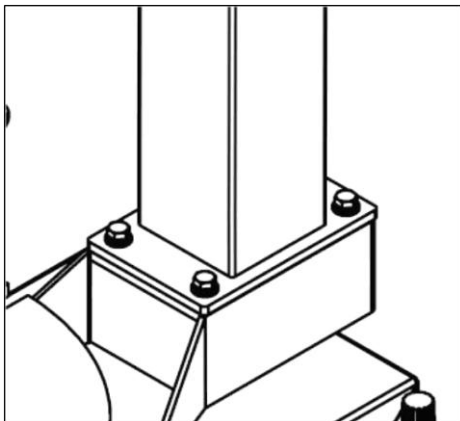


FIG4

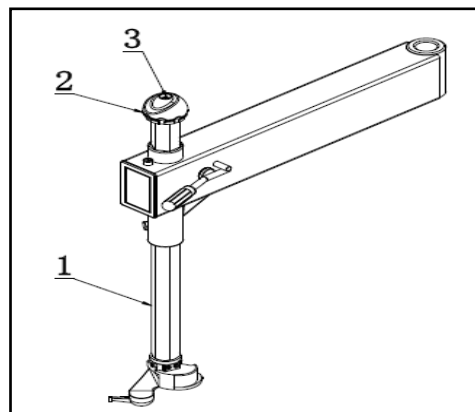


FIG5

3.2.2 Place the column on the body. The direction of the warning label is forwards. Make the holes on the column base plate align to thread holes on the body. Once again assemble the removed the bolt (3.2.1), elastic washer and plate washer and plate washer removed in 3.2.1. The torque is 70 N·M (FIG4) Use torsion wrench to tight.

3.2.3 Use the wrench to remove the screw (FIG 5-3) hexangular shaft (FIG5-1) and take off the vertical shaft cap(FIG 5-2).

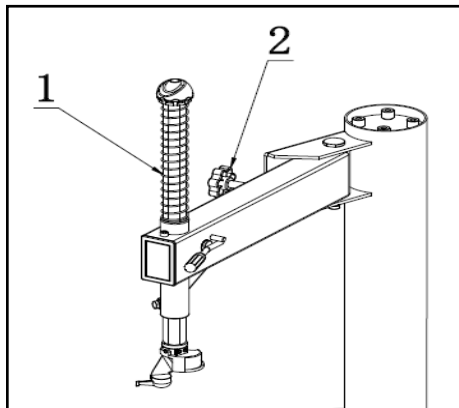


FIG6



When remove the screw on the vertical shaft cap, you need use the lock handle to lock the hexangular shaft to avoid sliding off to damage the machine or injury personnel!

3.2.4 Install the vertical shaft spring (FIG6-1) on the vertical shaft. Mount the vertical shaft cap and mount the removed screw and assemble the hand wheel into the nut bushing of the rocker arm (FIG 6-2).

3.3 AIR SOURCE FITTING INSTALLATION:

Before the machine out of the factory, the air regulator has been adjusted well and can be re-adjust if need.

Adjust the pressure: lift-up the adjusting knob (FIG8-1) and rotate it clockwise, the pressure will raise. Otherwise, decline. (Adjust the working pressure of the machine and must not exceed 10Bar.)

Adjust the oil feed: twist the adjusting screw (FIG8-2) clockwise using the screw driver to slow the dripping speed and otherwise, quicken it.

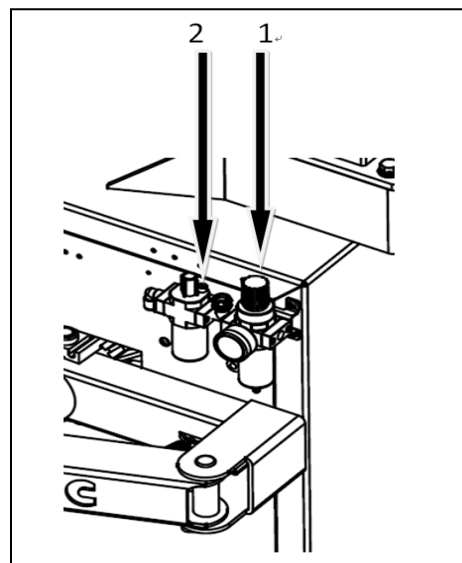


FIG8

CHAPTER 4 DEMOUNT AND MOUNT TIRE



Note: the operator must be trained and qualified then allow to operate the tire changer. Need to use the proper device and tools, wear the protective clothes, and use the proper safety precautions, like goggle, earplug, and safety shoe and so on.

4.1 BASIC PRINCIPLE

- ✧ In order to avoid damage the rim, especially the alloy rim, when mount and demount the tire, must use the specified crowbar.
- ✧ In order to facilitate the removal and protection the tire and rim, between the tire and rim, at the position which the bead break blade insert to, need to lubricate using industrial lubricants or soap water.
- ✧ For certain types of tires, pay attention to the tire wall and the rotation direction marked on the tire.
- ✧ The tire size must be suitable for the rim to mount.
- ✧ Before mount and demount the tire, need to check whether the rim had damage (deformation or surface of the outside of the rim, rim axial for radial beat is too big, corrosion or overall wear).
- ✧ In any case, pay attention to the mounting and demounting request of the special tire from the tire manufacturers.

When inflate the tire, to increase the pressure uniformly and pay attention to the tire edge situation.

4.2 DEMOUNT TIRE

- a) Deflate the air in the tire completely and pull out the core. Use the special tool to detach the weight on the rim. Place the tire between then bead breaking blade and tire pressing runner clog (FIG9).
- b) Place the tire between then bead breaking blade and tire pressing runner clog. Then step down the tire press pedal (FIG3-11) to detach the rim from the tire. Repeat the same operation on the other parts of the tire to make the tire completely detached from the rim. To detach the lip smoothly, you can use the brush to spread the lubricant or thick soap liquid between the lip and rim.

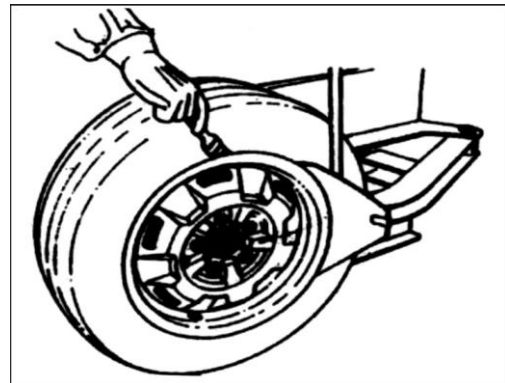


FIG9

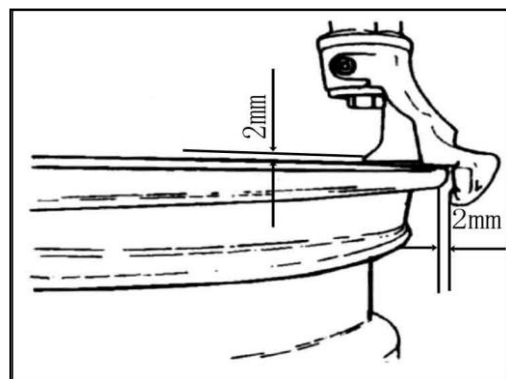


FIG10

- c) Place the wheel with the tire detached from the rim on the turntable and step the clamp pedal (fig3-10) to clamp the rim. You can select the outer clamp and inner clamp to clamp the wheel according to the different rim.
- d) Position the hexangular shaft (FIG 3-4) to the working position to make the demount tool close to the rim of the wheel. And use the hand wheel (FIG 3-18) to push against the rocker arm and then use the lock handle (FIG3-3) to lock. The demount tool will automatically move a little of gap (FIG10).

NOTE: The angle of the demount tool has been calibrated according to the standard rim (14") . If handling the extra-big or extra-small rim, you can reposition.

- e) Use the crowbar to detach until the lip to the hump of the demount tool. Step the turntable rotation pedal(FIG3-9)to rotate the turntable clockwise until the entire lip completely detached.

Note: If handling the tube tire, to avoid the damage on the tube, you should keep the nozzle of the tire 10cm from the right side of the demount tool when demounting. If the demount of the tire is jammed, please stop the machine immediately and then lift up the pedal to let the turntable rotate counterclockwise to remove the resistance !

- f) When handling the tube tire, Take out the tube and then move the lower lip upwards to the upper edge of the rim and then repeat the above steps to detach the other lip.

4.3 MOUNT TIRE:

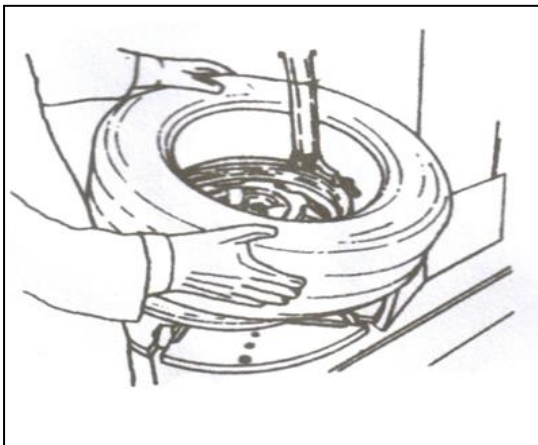


FIG11



FIG12

- a) Clean the dirt and rust on the rim and lock it on the chuck.Lock the rim on the turntable.
- b) Spread the lubrication liquid or soap liquid around the lip. Tilt the tire against the rim and keep the front end upwards. Press down the hexangular shaft to move the demount arm to contact with the rim and lock. The left lip above the tail of the demount tool and the right lip will be positioned under the front end of the demount tool (FIG 1), Clockwise rotate the

turntable to guide the bottom lip into the tire detaching slot.

- c) If there is tube, place it in the tire and plug the core. And assemble the lip according to the above mentioned step (FIG13).

4.4 INFLATION:

NOTE: When inflating the tire, please be carefully and series obey the operation process. Check the air route to see if the air connection is OK. This machine is equipped with an inflation gauge for monitoring the inflation of the tire and the inflation pressure.

- a) Loose the tire from the turntable.
- b) Connect the inflation hose with the tire air core.
- c) In the process of inflation, you should repeat press the trigger of inflation gun. Confirm the pressure indicated on the pressure gauge not exceed the scope specified by the manufacturer. In this machine, there is a pressure decrease valve to keep theinflation pressure not exceed 3.5bar.

Warning! Explosive!

When inflation, you must follow the above safety operation and abide by the following instruction:

- Carefully check is the size of the rim same to the size of the tire and also check the wear condition of the tire to secure there is no damage before inflation.
- When the inflation pressure is relatively high, you should remove the tire from the machine and inflate in the protective cover.
- When inflate the tire, be carefully, keep your hands and body far away from the tire.

Chapter 5 MAINTENANCE & REPAIR



NOTE: Only the qualified professional personnel can execute the maintenance. Before any maintenance, Cut off the power and air supply and completely deflate the residual air in the machine.

The following position should be monthly maintenance :

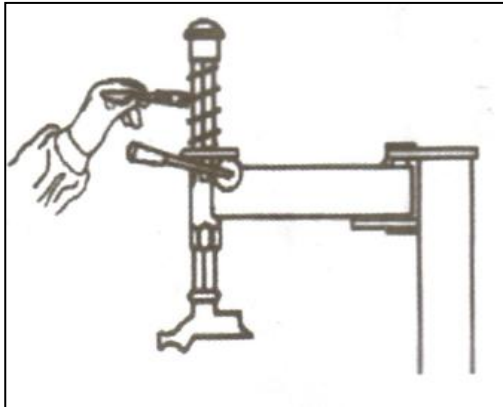


FIG13

- Keep the machine and working area clean.
- Use the diesel oil to clean the hexangular shaft (FIG13), Use the machine oil to lubricate.
- Use the diesel oil to clean the turntable claw and its guide and use the lithium base oil to lubricate.

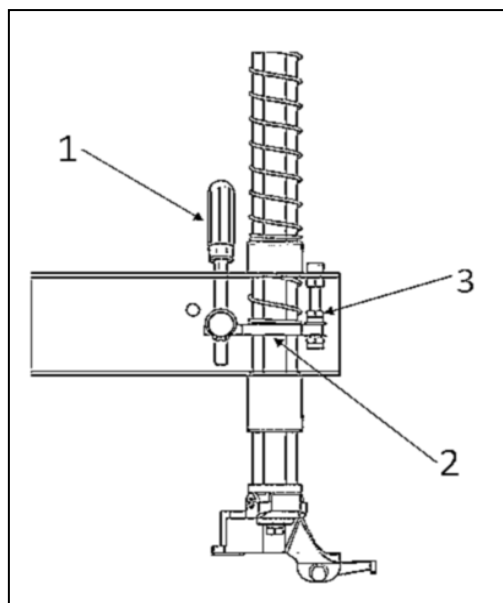


FIG14

- Periodically check the lubrication oil level in the oil fog device. If the oil level lower than the oil scale, please feed in the SAE30 lubrication oil in time. Periodically drain out the water and impurity in the oil water separator.
- Periodically check and adjust the tension of the driven belt. Properly adjust the adjust nut in A and B to realize the proper tension.
- Check all the connect parts and tight the loosen bolt.

HEXANGULAR SHAFT & LOCK PLATE LOCK GAP ADJUSTMENT

When press downward the hexangular lock handle (FIG14-1), the hexangular shaft will vertically slide under the effect of the weight of the hexangular shaft and return spring; When the lock handle rotate clockwise for about 100 degree, the cam connected to the handle will push up the lock plate to lock the hexangular shaft. Meanwhile, the demounting head will slide upward 2mm to have a gap between the demounting head and rim. If you cannot realize this situation, you can adjust the locking nut (FIG14-3) at front end of locking plate (FIG14-2) to reach the target. Adjust upward, big gap; adjust downward, small gap.

CHAPTER VI TRANSPORTATION

When transport the machine must apply the original package and place according to the mark on the package. The machine must be transported by the forklift with the corresponding tonnage(FIG15)and the stacked layer will not exceed 3layers.

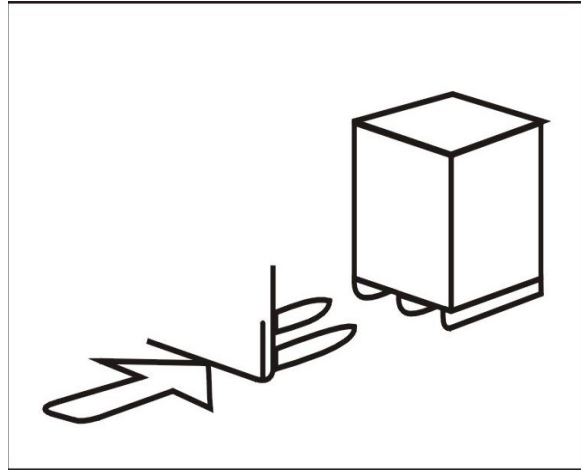
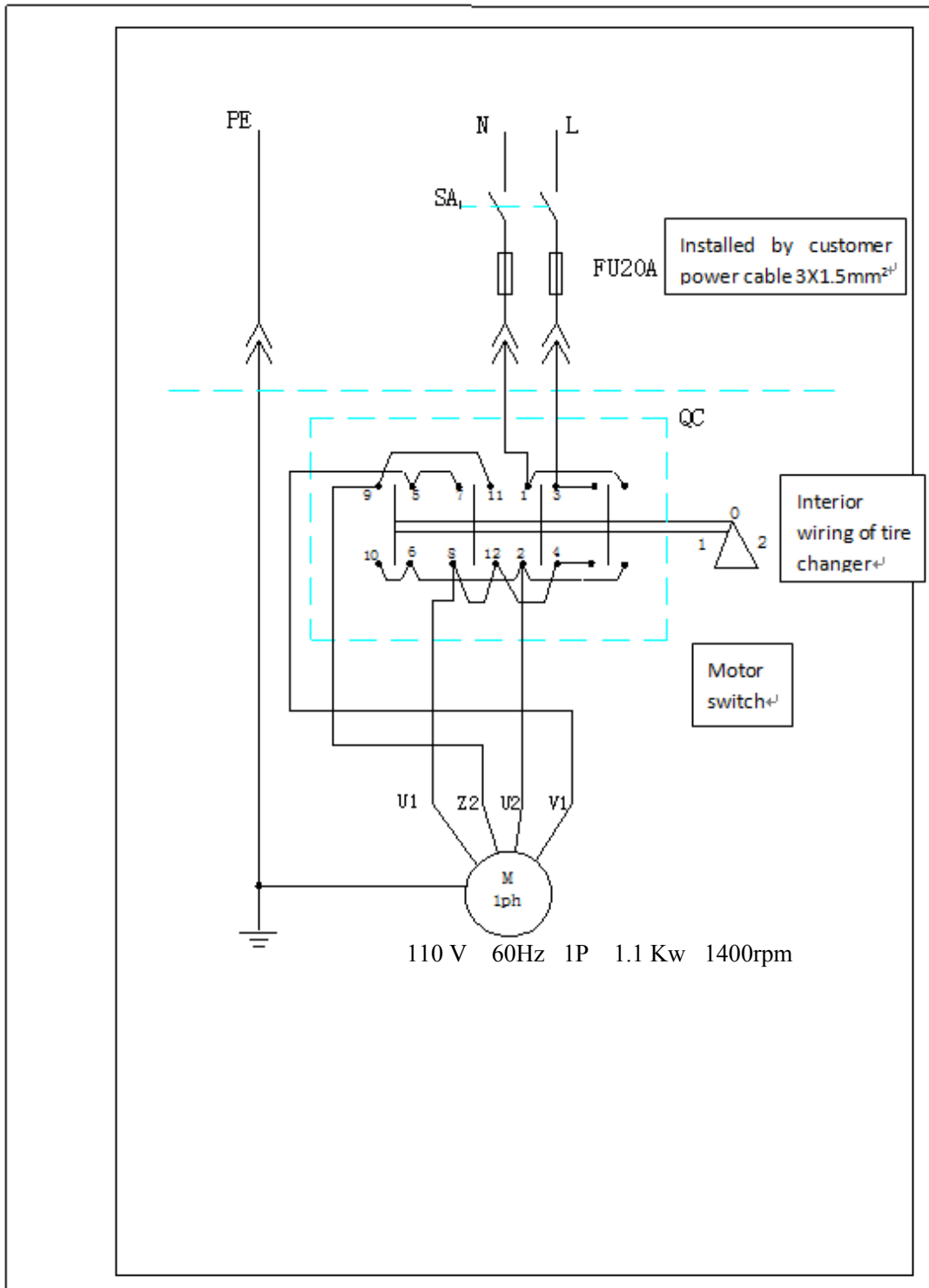


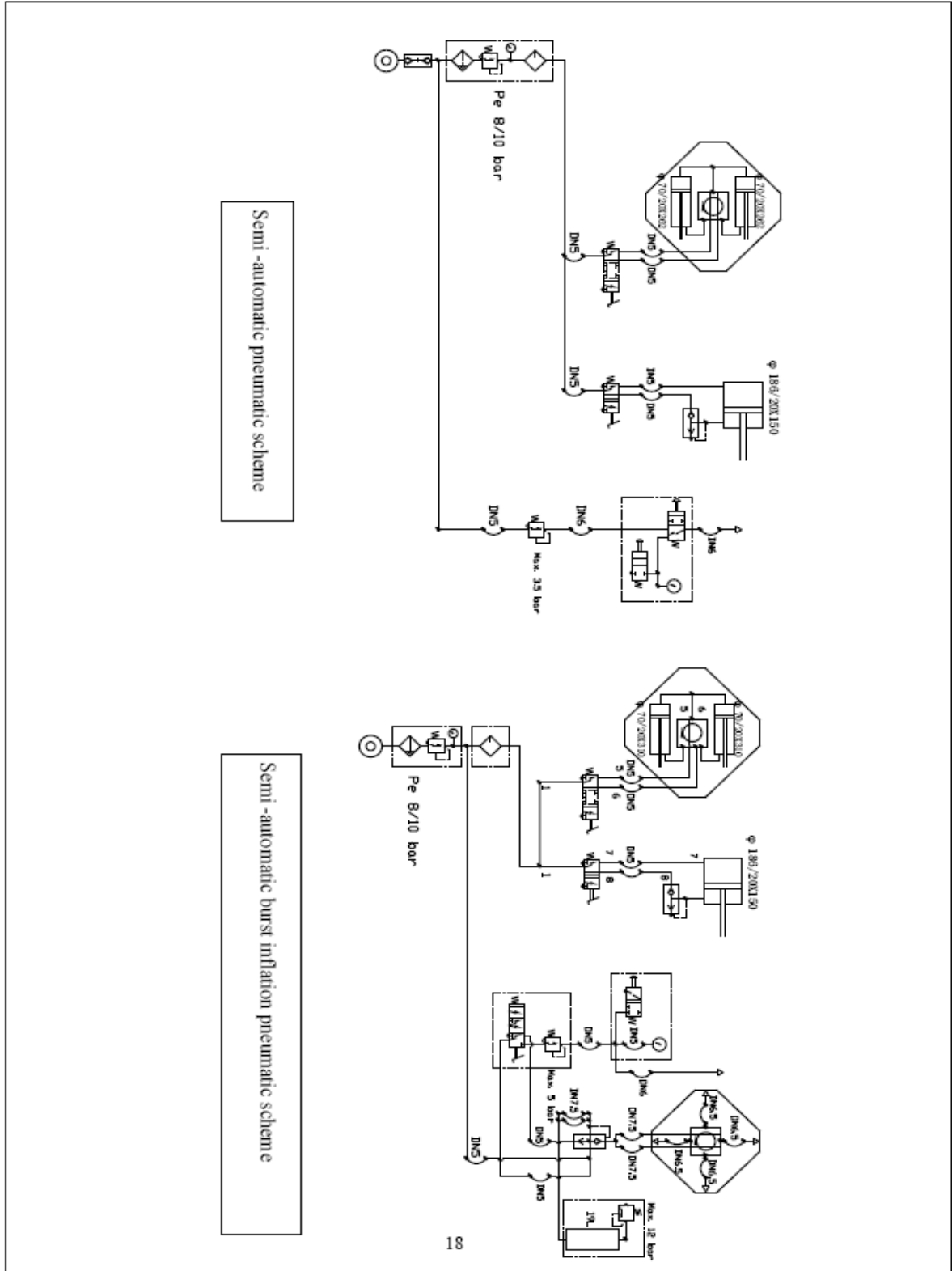
FIG15

CHAPTER VIII ELECTRICAL AND PNEUMATIC DRAWING

7.1. 220V ELECTRICAL PRINCIPLE DRAWING



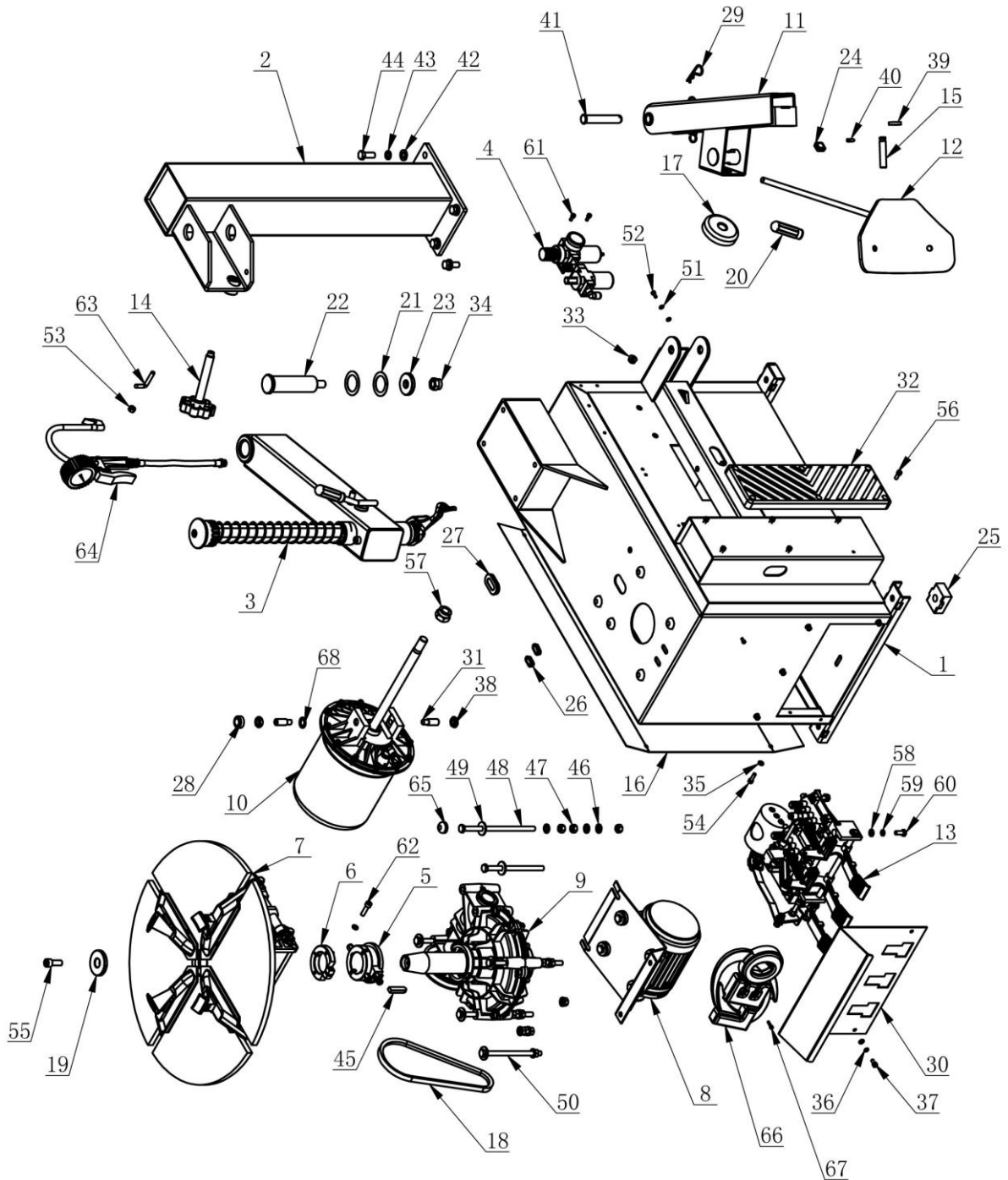
7.4. PNEUMATIC PRINCIPLE DRAWING



CHAPTER VIII TROUBLESHOOTING ANALYZE AND SOLUTION

CHAPTER	REASON	TROUBLESHOOTING
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	Change claws Change the air leakage sealing parts
Quadric and hexangular shaft cannot lock	Lock plate not in position	Refer to the chapter V
Chassis pedal not return.	Pedal return spring damage	Change 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
Air Leakage	air hose broken pipe fitting broken sealing head broken loss of the sealing glue	Change broken parts Refill the sealing glue

CHAPTER 9 EXPLODED VIEW OF MACHINE



ITEM	PART. NO	DESCRIPTION.	QT. Y
1	C-01-1100000	BODY	1
2	C-01-1200000	VERTICAL COLUMN	1
3	C-01-1300000	SWING ARM	1
4	CT-F-3111100	AIR REGULATOR ASSEMBLY	1
5	CT-Q-1000000	ROTATING UNION	1
6	CT-Q-6000000	CLAMP RING	1
7	CT-Y-0100000	TURNTABLE ASSEMBLY	1
8	CT-DJ-0334122	MOTOR	1
9	CT-J-3100000	GEARBOX ASSEMBLY	1
10	CT-LS-1400000	BEAD BREAKER CYLINDER ASSEMBLY	1
11	CT-B-4000000	BEAD BREAKING ARM ASSEMBLY	1
12	CT-C-3100000	BEAD BREAKER BLADE	1
13	CT-D-1300000	PEDAL ASSEMBLY	1
14	C-54-1400000	HANDLE WHEEL	1
15	C-7C-1000007	ROTATION SPINDLE	1
16	C-01-1000001	SIDE PANEL	1
17	C-54-1000016	WESHER	1
18	CT-DJ-0000007	BELT	1
19	C-54-1000012	PRESS COVER	1
20	TC-40-1200022	RUBBER COVER	1
21	C-54-1000002	ADJUSTING WASHER	2
22	C-01-1000002	ROCKER VERTICAL SHAFT	1
23	C-54-1000009	SHAFT WASHER	1
24	C-54-1000015	STOP-UP	1
25	C-54-1000005	RUBBER FOOT	4
26	C-54-1000023	PLUG A	2
27	C-54-1000028	PLUG B	1
28	C-54-1000013	SEALED COVER	1
29	C-01-100000B	CIRCLIP	1
30	C-5B-1000002	PROTECTIVE COVER	1
31	C-54-1000010	SCREWS M14X42	2
32	C-7C-1000008	RIM SUPPORT	1
33	C-71-1000027	HELPER RUBBE PLUG	2
34	GB889.1-M16	1-TYPE PREVAILING TORQUE TYPE HEXAGON LOCK NUT	1

ITEM	PART. NO	DESCRIPTION.	QT. Y
35	GB95-6	FLAT WASHER	9
36	GB93-6	STANDARD SPRING WASHER	5
37	GB70. 1-M6×12	INNER HEXA CYLINDRICAL SCREW	5
38	GB6172. 1-M14	HEXANGULAR THIN NUT	2
39	GB955-14	WAVE-FORM SPRING WASHER	1
40	GB85-M6×12	SQUARE HEAD CYLINDRICAL TERMINUS SET SCREW	1
41	GB882-18×100	PIN SHAFT	1
42	GB95-12	FLAT WASHER	4
43	GB93-12	STANDARD SPRING WASHER	4
44	GB5783-M12×30	HEXANGULAR BOLT	4
45	GB1096-C12×8×45	COMMON FLAT KEY	1
46	GB95-10	FLAT WASHER	14
47	GB41-M10	HEXANGULAR NUT	14
48	GB5781-M10X200	BOLT M10X200	4
49	GB96. 2-10	WASHER	6
50	GB5781-M10×160	HEXANGULAR BOLT	2
51	GB95-5	FLAT WASHER	2
52	GB5781-M5×12	HEXANGULAR BOLT	1
53	GB41-M8	HEXANGULAR NUT	1
54	GB70. 1-M6×20	INNER HEXA CYLINDRICAL SCREW	4
55	GB70. 1-M12×30	INNER HEXA CYLINDRICAL SCREW	1
56	GB70. 1-M6×16	INNER HEXA CYLINDRICAL SCREW	6
57	GB889. 1-M18X1.5	PRRVAILING TORQUE M18X1.5	1
58	GB95-8	FLAT WASHER	2
59	GB93-8	STANDARD SPRING WASHER	3
60	GB5781-M8×20	HEXANGULAR BOLT	2
61	GB70. 1-M5×12	INNER HEXA CYLINDRICAL SCREW	2
62	GB70. 1-M8×30	INNER HEXA CYLINDRICAL SCREW	1
63	C-71-1000024	INFLATING GUN HOOK	1
64	CT-P-6000000	INFLATING GUN ASSY	1
65	C-01-1000006	COVER CAP	6
66	C-L1-1000100	LOGO	1
67	GB70. 1-M4×16	INNER HEXA CYLINDRICAL SCREW	2
68	GB861. 1-14	INNER TOOTH LOCK WAHSER	2