

TYRE CHANGER

INSTRUCTION & MAINTENANCE MANUAL

We follow the way that wheel moving!



Read this entire manual carefully and completely
before installation or operation of the tire changer

TYRE CHANGER INSTRUCTION MANUAL

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Tyre Changer

Warning

This instruction manual is important for the machine, please read carefully before installation and use; also it is important for safe use and machine maintenance of machine. Please keep this manual properly in order to further maintenance of the machine.

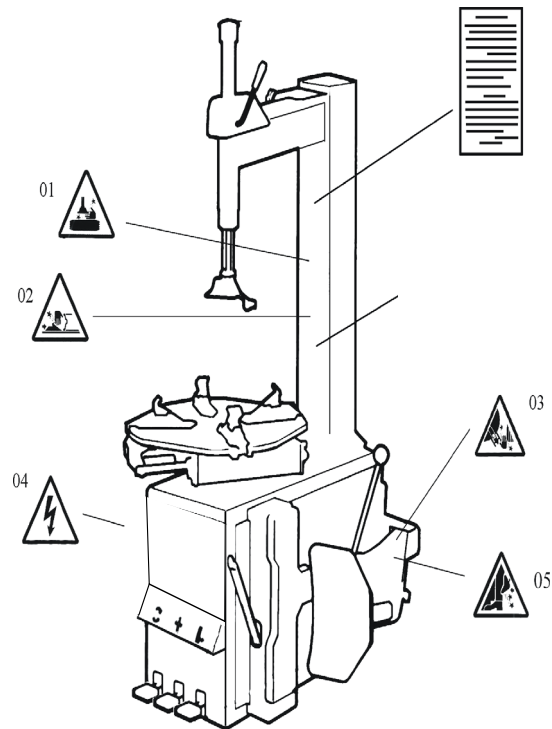
1. Introduction:

Application Range: The automatic tyre changer is especially designed for demounting / mounting tyres from wheel rims.

Caution: Please use the machine only for purpose for which it is designed, don't use it for other purposes.

Manufacturer shall not be liable for any damage or injury caused by failure to comply with these regulations.

Safety regulation: Use of this machine is especially reserved to trained and qualified professional persons, those who already read the introduction manual carefully, or someone have the experience for operating similar machinery. Any changes and beyond the scope of use on this machine without manufacturer's permission or do not according to the manual, may cause the malfunction and damage to machine, manufacturer can cancel warranty coverage for above. If some parts are damaged due to some reason, please replace them according to the spare parts list. **(Attention: warranty is one year after manufactures' delivery date; warranty excludes the easy-broken parts).**



2. Safety Warnings:

- 01 Don't put hands under the Mounting head/demounting head during operation;
- 02 Don't put hands between the jaws during operation;
- 03 Don't put hands in the tyre bead when demounting the tyre;
- 04 Make sure and to check the system is equipped with a good grounding circuit;
- 05 Don't put feet between the Bead Breaker shovel and the body during operation;
- 06 Warning instruction

Security warning labels

Caution:

When the security warning labels are defaced or off, please recovery them in time!

Do not allow to operate when the security warning labels are missed or imperfect.

Do not allow to set any objects to obscure the security warning labels.

Clients can self-set the warning labels (as right picture show) at any necessary positions.



3. Technical data

External locking rim dimensions	12~23 "
Internal locking rim dimensions	14~26 "
Max. Wheel diameter	1143mm (45 ")
Max. Wheel width	406mm(16 ")
Working Pressure	8-10bar
Power supply	110V (1ph)/ 220V (1ph)/ 380V (3ph)
Optional Motor power	0.75/0.55/1.1 kw
Max. Rotating Torque (Turntable)	1078 Nm
Overall Dimension	1130*900*1050 mm
Noise Level	<75dB

Remark:

Rim dimensions defined at above table are based on the iron wheel rims. Aluminum rims are thicker than the iron wheel rims, so here above rim dimensions are just for the reference.

4. Transport:

When transporting, the machine should be with original package and placed according to the mark on the package. For the already packaged machine should be handled with a corresponding tonnage forklift for loading and unloading. The location to insert the fork feet shown as **Fig 1**

5. Unpacking & Inspection:

Pull out the nail which is nailed on the plate with tip jaw; unpack the carton and plastic cover. Check and make sure all parts shown on the spare parts list are included. If any parts are missing or broken, please do not use the machine and contact the manufacturer or dealer ASAP.

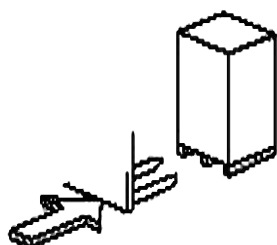


Fig 1

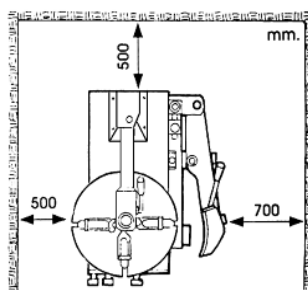


Fig 2

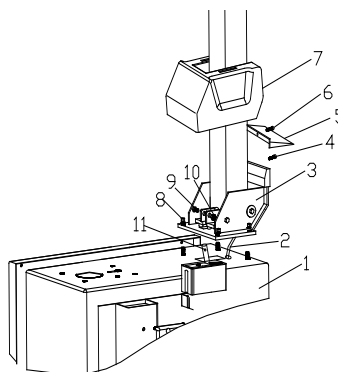


Fig 3

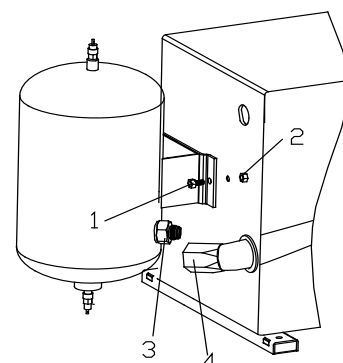


Fig 4

6. Workplace requirements:

Choose workplace in compliance with safety regulations. Connect power supply and air source according to manual and workplace must have good air condition; in order to make the machine run well, its workplace requires at least clear space from each wall shown as **Fig 2**. If installing it outdoor, it must be protected by roof against rain and sunshine.

Warning: the machine with motor must not be operated in explosive atmosphere.

7. Position and installation:

7.1 Install the column (accessories details refer to the exploded drawing)

- 1) Tools preparation
- 2) Place the tilting seat (3, **Fig 3**) on the body (1, **Fig 3**) with 4 bolts (M12), push air hose (2, **Fig 3**) through the hole of the column. Tighten 4 self-locking nut(8, **Fig 3**).
- 3) Insert screw (9, **Fig 3**) into the holes of both column and tilting cylinder shaft (11, **Fig 3**), tighten it with self-locking nut (10, **Fig 3**).
- 4) Unscrew the two bolts on the left cover and remove the cover, connect air hose (2, **Fig 3**) previously mentioned to the side holes which control the tilting 5-way valve. Fix the left cover.
- 5) Fix the plastic cover (7, **Fig 3**) with two bolts (4, **Fig 3**).
- 6) Mount the plastic back cover (5, **Fig 3**) on the column with screw (6, **Fig 3**).

7.2 Install the air storage tank

- 1) Demount the left cover, fix the body and the air storage tank with bolt(1) and screw cap(2);
- 2) Fix the metal hose and the connector, ensure no air leakage(**Fig 4**)

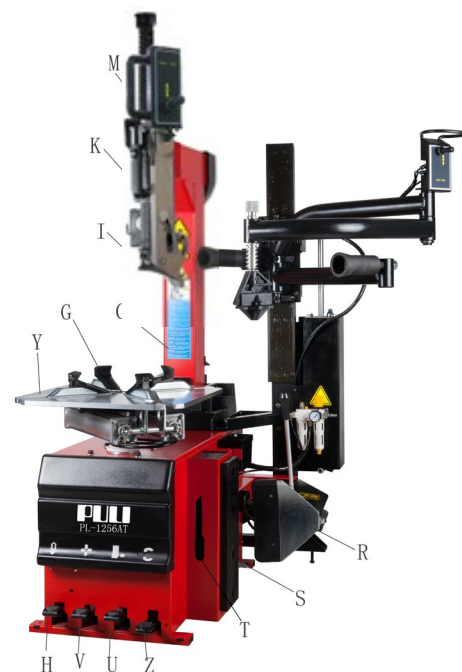


Fig E

8. Electricity and Pneumatic connections:

Warning: Before installation and connection, check to be sure that the electricity power supply corresponds to the machine technical data. All the installation of electric and pneumatic devices must be operated by a professional electrician.

Connect the compressed air connector which is on the machine right side with compressed air system. The electric grid that the machine connects to must have fuses protection device and good outer cover grounding protection. Install the leakage automatic air switch on the main power supply, leakage current is set at 30A

Caution: No power plug for this machine, the user should self-connect one power plug no less than 16A as well as in line with the machine voltage. Or directly connect with the power supply according to the above requirements.

9. Adjusting operation:



Tilting pedal (H)



Turntable rotating pedal (Z)



Jaws open and close pedal (V)



Bead breaker pedal(U)

Please note: below operation refer to **Fig E**

Tread the Turntable Rotation Pedal (Z), Turntable (Y) clockwise rotation;

Lift up the Turntable Rotation Pedal (Z), Turntable (Y) counterclockwise rotation.

Tread Bead Breaker Pedal (U), Bead Breaker shovel (F) compress; release Bead Breaker Pedal (U), Bead Breaker shovel (F) back to original position.

Tread totally down Jaws open and close Pedal (V), four clamps (G) on the turntable open; Tread again, four clamps (G) close. When the pedal is in the middle position, the four clamps stop moving.

Depress pneumatic locking button (K) to lock the Slide arm (N) and Vertical arm (M).

Tread the Bead Breaker pedal (H), the tilting column (C) backwards down; depress again, the tilting column return.

10. Help Arm 056

The help arm 056 is an auxiliary device for tire changer, it is used to help to demount and mount tires.



Before any operation of this machine, the operator is requested to read the manual carefully. Do not attempt any operations that are not stated in it. Manufacturer will not be responsible for any injury or damage caused by improper operation. Please keep the manual handy for consulting.

10.1. Technical Data

Work Pressure	8~10 bar
Weight	100kg
Package dimension	1550*310*550mm
Noise Level	LpA<75dB

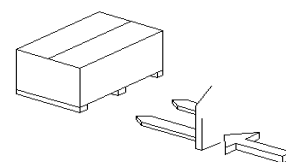


Fig 5

10.2. Safety Regulations

This device is especially reserved to trained professional personnel or somebody who has experiences on mechanical operation and read this manual carefully. This device must be used together with our tire changers, we are not sure it can work with others. Manufacturer won't be responsible for any unauthorized modification

10.3. Installation

Notice!

The installation of this auxiliary device should be done by professional personnel. Before assembly, disconnect the device from power supply and air source.

10.3.1. Transport

Move the device with a forklift truck as illustrated in Fig5

10.3.2. Unpacking

When unpacking, check and make sure all parts shown on the packing list are included. If any parts are missing or broken, please call the manufacturer or the dealer ASAP. Please keep the package out of children's reach.

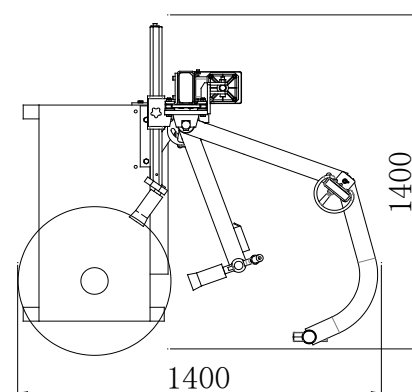


Fig 6

10.3.3. Workplace Requirement

Fig 6 shows the minimum distance (cm) from walls after assembly this auxiliary device. Please choose the right place to install it.

10.3.4 Assembly

- 1) Disconnect the tire changer from power supply and air source.
- 2) Fix the column on the body with four screw1 and adjust the support 2 to a suitable location; (Fig 7)
- 3) Connect the air hose to the corresponding joint through the rear hole of the body.

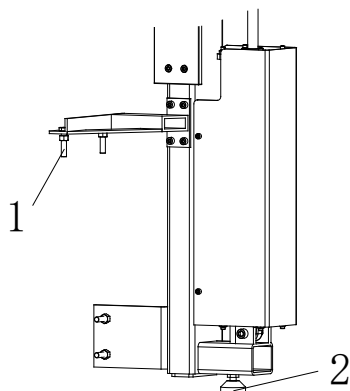


图 7

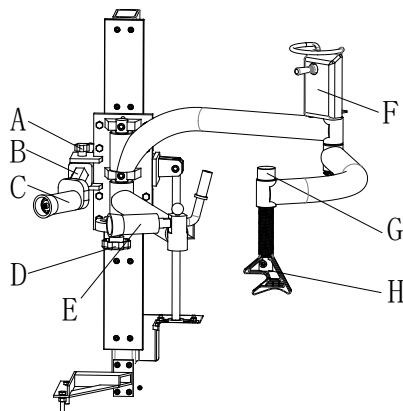


图 8

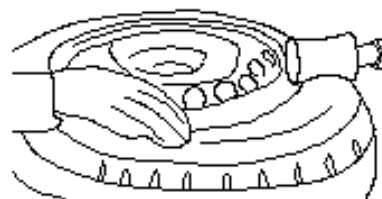


图 9

10.4. Functional Parts

Fig 8 shows functional parts to the 056 device:

- | | |
|--------------------------------|-----------------------------|
| A. Little adjust handle | B. Hexagonal horizontal arm |
| C. Tire pressing roller | D. Big adjust handle |
| E. Tire lifting roller support | F. Rise/fall switch |
| H. Adjustable threaded rod | |

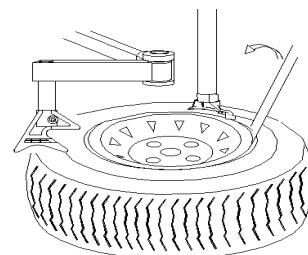


图 10

10.5. Operations

Mounting and demounting big flat tire is difficult work. By the help of 056 help arm to mount/demount the tire from the tire bead will make the operation easier. It is a good helper for tire changer.

10.5.1. Fixing The Tire

Loosen the bead according to the manual. Clamp the tire from outside, tread the corresponding pedal to open the jaws;

Put the tire on the turntable; Tread the corresponding pedal to close the jaws until they near the rim.

10.5.2. Demounting The Tire

-1. Generally speaking, tire is very tight. Loosen the beads with the tire pressing head first (or using the bead breaker if it too tight to loosen).

Pull out the Hexagonal horizontal arm; let the tire pressing roller above the tire without collision.

Lower the tire pressing roller lower with the switch handle to press the tire. Tread the pedal to rotate the turntable. Loosen the bead during this procedure. (Fig 9)

Caution: Lubricate the tire pressing head (upper) and the bead before the operation.

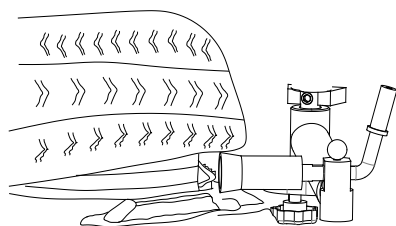


Fig 11

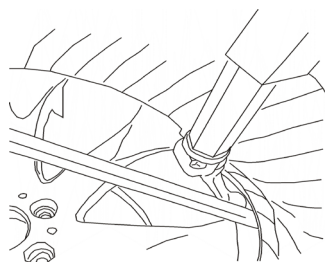


Fig 12

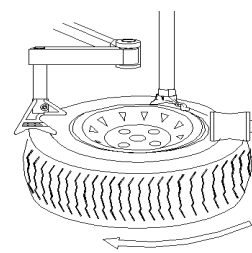


Fig 13

-2. Demounting the upper bead

a- Move the mounting head near the edge of the rim, rotate the tire pressing arm to move the tire pressing block above the tire, press the switch handle to depress the tire, and insert the lifting lever in the clearance between the tire and the rim, then hang the bead on the mounting head. (Fig11、12)

b- Raise the auxiliary arm, rotate the tire pressing head to the opposite. Press the tire with the switch handle to create enough space.

c- Tread the power supply pedal to rotate the turntable. With the help of the tire pressing head, the upper tire bead is detached.

d- Raise the help arm to move the tire pressing block to its non-working position.

-3. Demounting the bottom bead

Turn the roller support and move it under the tire, but don't touch it with the rim.; (Fig 11) Tread the power supply pedal to rotate the turntable, meanwhile, lift help arm gradually to loosen tire and completely demount the bottom bead.

10.5.3. Mounting the tire

Lubricate the tire bead and rotate the turntable, mount the bottom bead with the mounting head; Pull the hex rod out, press the upper bead under the mounting head 5mm with the tire pressing roller, rotate the rotating arm and move the tire pressing block above the tire; Don't touch with the rim in the operation, or it causes damage on the rim due to friction.

Tread the power supply pedal to rotate the turntable and the tire pressing block, lower the help arm to press the tire under the rim. Mount the tire with the mounting head. Please pay attention to the safety in the process of operation. (Fig 13)

11. Automatic mount/demount head (T-shape):

T series automatic head is an assist device of a tyre changer. It frees the machinist from using the conventional lever to mount and demount tyres, greatly reduces labor intensity and the risk of scratching the tyres and rims. Correct and skillful operation can get twice the result with half the effort.

Before using this device, please read carefully the contents in this manual. The manufacturer shall not be held responsibility nor liable for injury or damage caused by any improper use, or operation beyond capacity. Keep this manual in good conditions for future references.

Note: This manual is the important part of the product. Before installing and operating this device, please read the warnings and instructions in this manual since they provide important information on operating safety and maintenance. Please keep this manual in good condition for future maintenance references.

***Note: Use this device to mount and demount 13-inch and above tyres only. When removing the tyre, pay attention to avoid the position of tyre pressure sensor or valve core.**

11.1. Technical parameters

Operating pressure	8~10 bar
Weight	8Kg
Dimensions	750 x 200 x 250 mm
Working noise level	LpA<75dB



11.2. Safety rules

The device must be used by trained personnel or personnel who has read this manual carefully and with experience in mechanical operation.

Please use this device with our tyre changer as it is not guaranteed that the device can be used normally on other tyre changers. Our company shall not be held responsibility nor liable on any unauthorized modification of the product.

11.3. Transfers and installation

Note!
This device must be installed by professional personnel.
Before installing this device, please make sure that the electrical and air supply are disconnected.

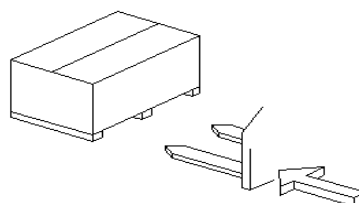


Fig.14

11.3.1. Transport

Please use the forklift for transportation as shown by the picture Fig.14.

11.3.2. Unpacking

Check the perfect condition of the product, making sure that no part is damage or missing (refer to packing list), if in doubt, please get in touch with your distributor or manufacturer.

It is recommended to store the cardboard box and other accessories for future use.
Keep packing elements away from children.

11.3.3. Installing position

Replace the duck head by the automatic tyre mount/demount head device as showed by the picture Fig.15.

11.3.4. Assembling (Refer to Fig.16)

- 1) Disconnect the electrical and air supply of tyre changer;
- 2) Use the hex socket set screw with flat end T02-18 and T02-33 to fix the automatic head T03 to the hex rod 1;
- 3) Cut the air hose 13 and connect the hose end with a tee connector (mini)1/8 T02-41, then connect the extension spiral tube T02-40 to the connector;
- 4) Make the other end of the extension spiral tube T02-40

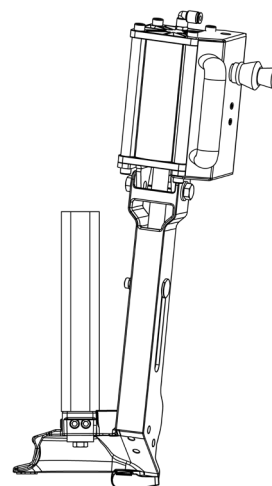


Fig.15

- connected with the quick elbow connector T02-07-2 which is on the two position three way hand operated valve T02-03;
- 5) Connect air hoses T02-37 to the quick elbow connector T02-06,T02-07-1,T02-07 and T02-06-1;
 - 6) Secure the two position three way hand operated valve T02-03 and the cylinder cover T03-2 with screws and nuts;
 - 7) Secure the cylinder cover T03-2 to the air cylinder T03-4 with hex socket head cap screws 9.

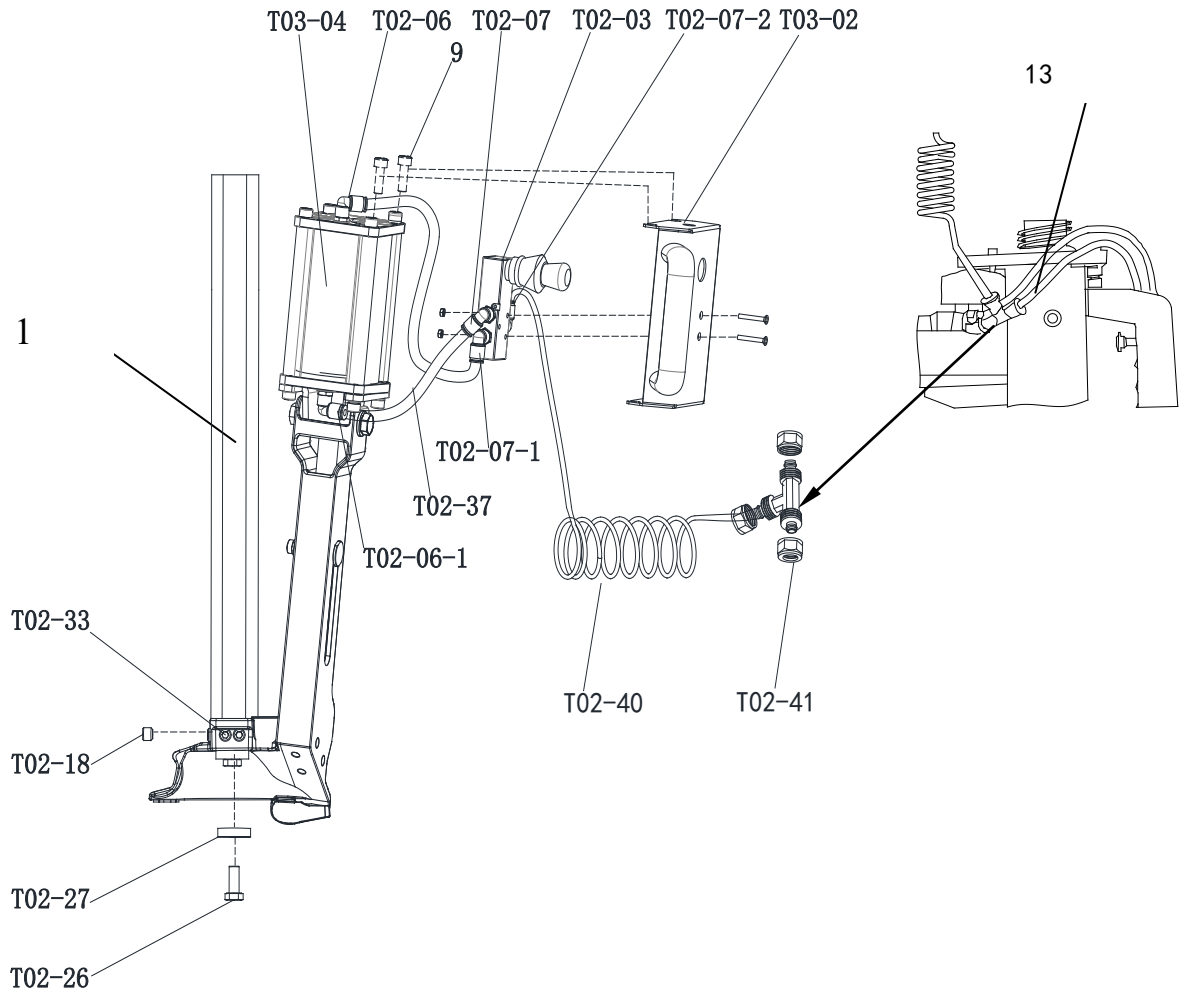


Fig.16

11.4. Main components

Main components of T series tyre mount / demount head system as shown by the picture Fig.3 and the exploded view:

- T03-25 Automatic tyre mount/demount hook
- T03-04 Cylinder of automatic tyre mount/demount head
- T03-15 Automatic tyre mount/demount head body
- T02-03 Two position three way hand operated valve

11.5. Necessary conditions for commissioning

Certain that the tyre changer and air compressor are connected in good condition when operating the T series tyre mount/demount head system. Keep the air pressure at 8~10bar.

11.6. Operation

T series mount/demount head is an auxiliary device used to help the operator to mount and demount tyres.

Warning: Before performing any operation, the operator should wear tight sleeve working clothes, working cap and non-slip shoes. Please be really careful that deflate the tyre and remove all balance weights from the rim before operation.

Warning: Irrelevant items like necklaces, bracelets, or loose clothing might be trapped by rotating parts, which would be dangerous to the operator.

11.6.1. Lock the tyre

- 1) Must deflate the tyre first; then lean the tyre against the rubber pad on the right side of the tyre changer. Move the bead breaker (F) against the tyre bead, about 1cm to the rim (Fig. 17). Step on the tyre pressing pedal, and the bead breaker will move inward to press tyre bead. Repeat the process alongside the rim, with different angle to press both sides of the tyre until tyre bead has been completely loosened;

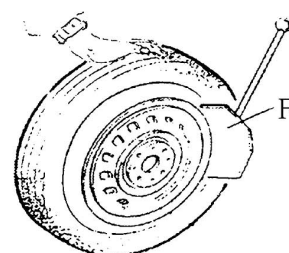


Fig. 17

- 2) Then put the tyre on turntable and clamp the rim. If the tyre is still too tight, please loosen it with a bead breaker according to the above steps, which shows how to loosen a tyre with a tyre changer.

Warning; Must make sure that the rim has been clamped firmly before proceeding to the next step

Warning: When locking the rim, please never put your hands between the rim and the clamping jaws. Otherwise, the hand will be hurt.

11.6.2. Demount a tyre

Before operating, remove all balance weights from the tyre and check if the tyre has been deflated. Lubricate/grease the tyre bead. Otherwise it may cause severe wear and damage to the tyre.

1. Press and loosen the tyre

- 1) Low profile tyre are always tight. After loosened by bead breaker, clamp the tyre on turntable;
- 2) Adjust the help arm and place the pressing roller on the tyre (Fig.18-a), without touching the rim;
- 3) Pull down the control handle of the help arm system (Fig.18-b) and lower the pressing roller to press the tyre. Step on rotating pedal to loosen the tyre and apply the lubricant (Fig.18-c);

2. Demount upper tyre bead

- 1) Adjust the sliding arm to put the mount/demount head close to the rim (Fig.18-c) and lock the hexagonal rod;
- 2) Pull down cylinder hand operated valve of mount/demount head (Fig.18-e), and the hook will go inside the tyre from the rim edge (Fig.18-d). Then push up the control handle of the help arm system (Fig.18-b) to set pressing roller back. Rotate the turntable to let the hook go deep inside the tyre. Pull the cylinder operated hand valve up and the moving part of the hook will lift the tyre bead;
- 3) When demounting run-flat tyres, the help arm system is required (Fig.18-d). Move the arm to the opposite side against the mount/demount head, and pull the control handle (Fig.18-b) to press the tyre to drop center of the rim by the pressing block. Move the pressing roller to press the tyre near the hook, which will facilitate the hook sliding inside the tyre (Fig18-f). Then raise the help arm and put the tyre pressing roller back to standby position;
- 4) Keep stepping on the rotating pedal to rotate the turntable and stops once the hook has slid inside the tyre. Lift the upper bead as shown by the picture Fig.18-g.

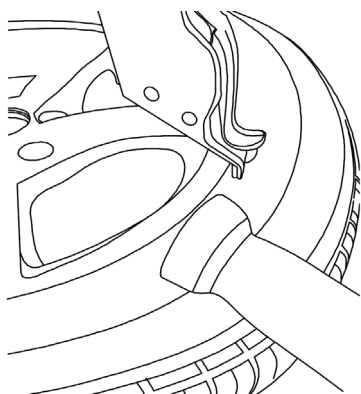


Fig.18-a

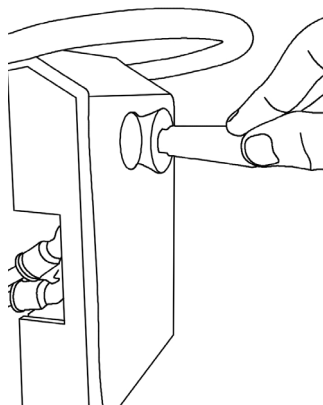


Fig.18-b

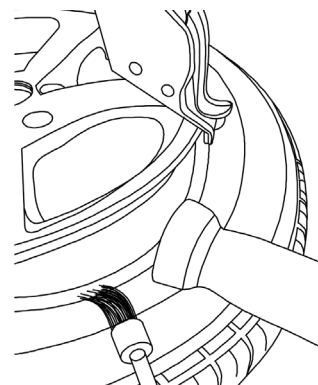


Fig.18-c

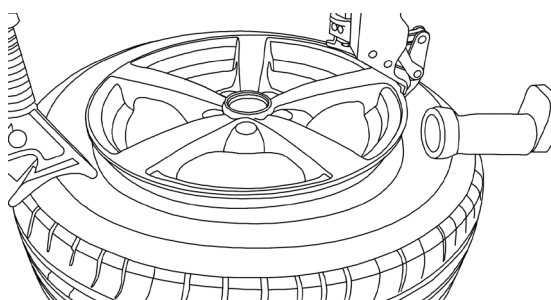


Fig.18-d

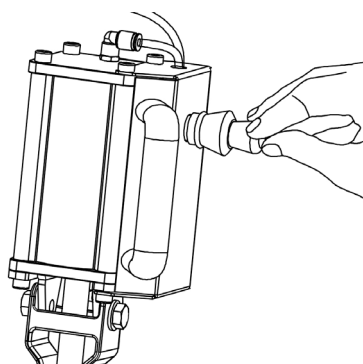


Fig.18-e

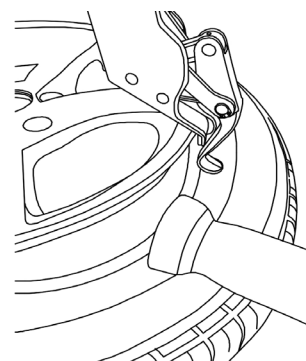


Fig.18-f

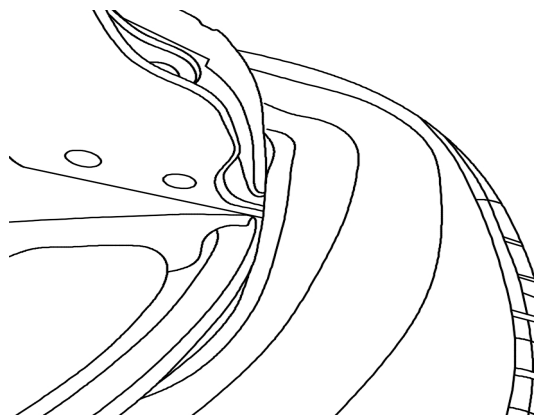


Fig.18-g

3. Demount lower tyre bead

- 1) Adjust the help arm and move the pressing roller under the tyre (Fig.19), without touching the rim.
- 2) Pull the control handle of the help system upward to lift the lower bead to a position just above the rim.
- 3) Pull down cylinder hand operated valve of mount/demount head, and the hook will go deep into the tyre from the rim and lift the tyre up slowly. The position of the hook please refer to the picture Fig.19 Then pull up the cylinder hand operated valve to lift the lower tyre bead off the rim.
- 4) Hold the tyre with your hand and step on the rotating pedal to turn the turntable, so as to take the lower bead off the rim.
- 5) Reset the help arm and put the tyre pressing roller back to standby position.

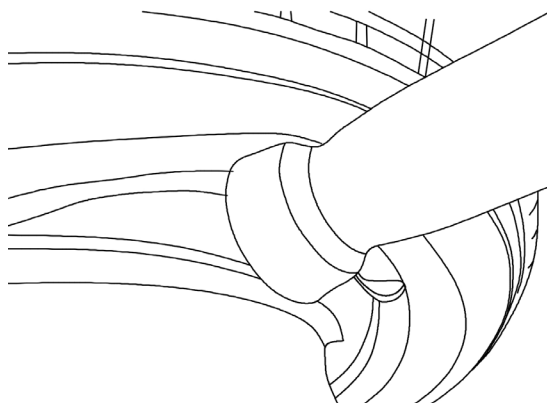


Fig.19

11.6.3. Mount a tyre

Warning: Before mounting a tyre, please carefully check whether the tyre matches the rim. Lubricate the tyre bead for smooth operation and protecting the bead. Lay the tyre on the rim and check its condition.

1、Mount the lower tyre bead

Reset the mount/demount hook to the original position by operating hand operated valve and then place the tyre diagonally on the rim; place one side of the lower tyre bead above the tail section of the mount/demount head, and the other side, under the mount/demount hook (Fig.20). Hold the tyre with your hand and turn the turntable to mount the lower bead of the tyre.

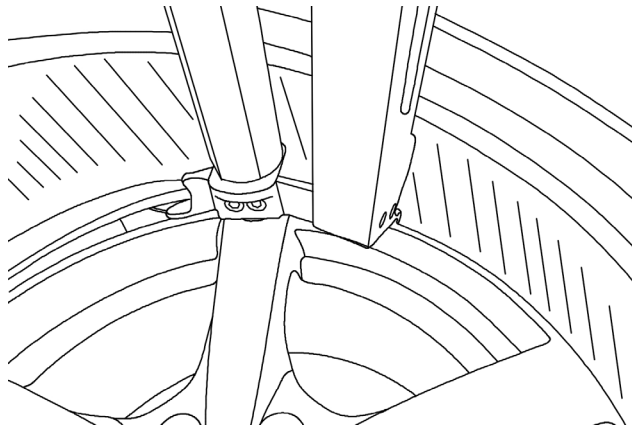


Fig.20

2、Mount the upper tyre bead

- 1) Pull out the pressing roller and pull the control handle of the help arm system to lower the roller on to the tyre (Fig.21).
- 2) Rotate the arm and raise the pressing block over the tyre; then pull the control handle downward to press the tyre bead in to the drop center by pressing block and roller.
- 3) Stepping on the rotating pedal, the turntable rotates and the pressing block moves accordingly (Fig.21). With the help of the mount/demount head, mount upper tyre bead on the wheel.
- 4) Finally, pull control handle upward to reset the tyre pressing block and roller back to standby position.

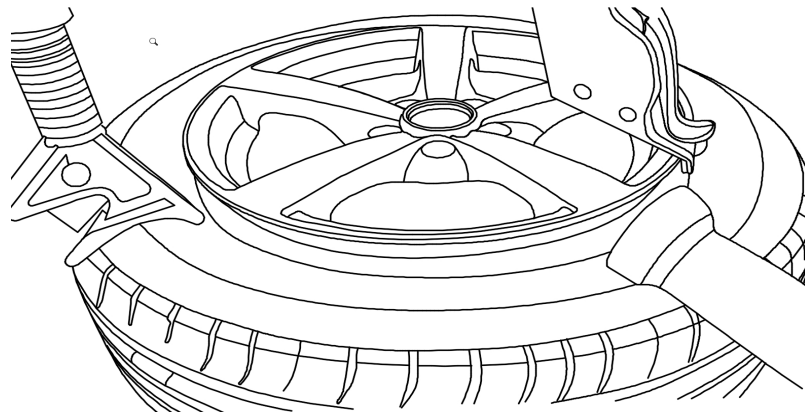


Fig.21

12. Inflating the tire :

Importance: It is very dangerous during inflating operation, take carefully and comply with instruction. When inflating, it will turn to be extremely dangerous if problems happen to tyre or rim. The possible burst force tire goes upward and outward, the big power may cause injury or death of the operator or the people around.

Tyre may burst caused by following:

- 1) The wheel rim and the tyre are not of the same size;
- 2) The tyre or the wheel rim is damaged;

- 3) The pressure of tyre inflation is over the max. pressure recommended by manufacturer;
- 4) The operator fail to comply with the safety regulation;

Please operate as follows: (Fig 22)

- 1) Remove the valve cap from the valve stem;
- 2) Check to make sure the air nozzle is pressed down completely over the threads of the valve stem.
- 3) Check to make sure that the tyre and the wheel rim are of the same size;
- 4) Lubricate both the tyre bead and the wheel rim, additional lubrication is required if needed;
- 5) Inflate the tyre with break, while inflating, check the pressure listed on the pressure gauge, also check whether the bead is fixed or not. Repeat operation above until the bead is secured; you need take special steps when inflating convex rim or double convex rim;
- 6) Continue inflating and check the air pressure frequently until to reach the required pressure.

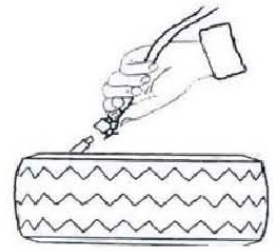


Fig 22

Note: Never exceed the max. inflation pressure given by the tyre manufacturer.

Keep hands and your body away from inflating tyres.

Only specially trained persons are allowed to perform the operations, do not allow other to operate or be near the tyre changer.

13. Moving machine:

Please use forklift to move the machine. Disconnect the tyre changer from the electricity power supply and pneumatic power supply, lift the base board and insert the feet of forklift. Then mount the tyre changer machine to a new position and fix it tightly.

Note: the place chosen for fixing the tyre changer must meet the safety regulation.

14. Maintenance:

Caution: only the professional persons can do the maintenance. To prolong the machine's life, maintain the machine timely according to the manual. Otherwise, it will impact the reliability of the machine or even cause injury to operator and others nearby.

Caution: before performing any maintenance, disconnect the tyre changer from the electric power supply and pneumatic power supply, and depress the Jaws open and close Pedal or Turntable Rotation Pedal for 3~4 times to evacuate all compressed air from the machine. Damaged parts must be replaced by professional persons with the spare parts provided by manufacturer.

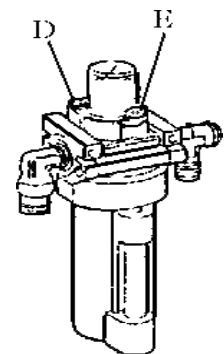


Fig 23

- Clean the machine once every day after work. Clean the dirt on the turntable with diesel oil once per week and lubricate the slides and clamps.

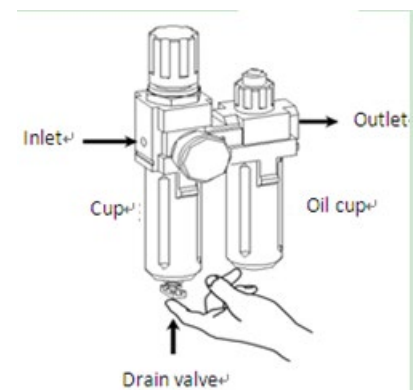
- Following maintenance must be done at least once per month:

Check oil level in Oil Fog Maker, please be filled with SAE30# oil if need.

Unscrew with hex wrench (E). Based on connection of compressed air, first to depress Jaws open and close Pedal or Turntable Rotation Pedal 5-6 times, and then check whether oil in Oil Fog Maker drops down a drip of oil. For continuous operation, depress twice every time, drop down a drip of oil, otherwise adjust the screw (D) that controlled oil enter with minus screwdriver.

(Fig 23)

- As shown in Figure 23-1, when you found there are some water in the cup, push up the drain valve to drain away water with your fingers; loosen your fingers after drained water, drain valve can be automatic closed under the action of the spring. Fig 23-1



Note: After the first 20 days of use, retighten the jaws with tightening screws (B) on the Turntable (Fig 24)

Note: in the event of turntable lose power, check to see if the belt is tight as follow steps:
Remove the left side cover by unscrewing the screws; adjust two screws located on the motor support, keep a suitable distance between motor support and motor base; tight the screws for the belt tension.(Fig 25)

Caution: please disconnect the machine from electric power supply and pneumatic power supply.

Note: If Vertical Arm not be locked or not meet the requirement that 2-3mm from the bottom of Mounting head/demounting head to rim, please adjust Hexagonal Locking Plate, refer to Fig 26and adjust the (X).

Note: In order to achieve the reliability of jaws and Bead Breaker shovel, operate as follows to keep their valves clean:

1. Remove the left side cover of the machine body by unscrewing the two screws;
2. Loosen the valve mufflers (A) which belong to Jaws open and close Pedal and Bead Breaker Pedal;
3. Clean the mufflers with compressed air, please replace it referring to the spare parts list if it is damaged. **(Fig27)**

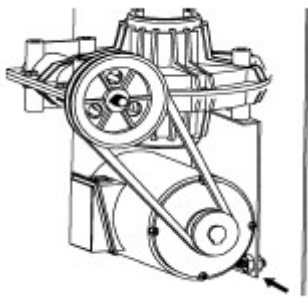


Fig 25

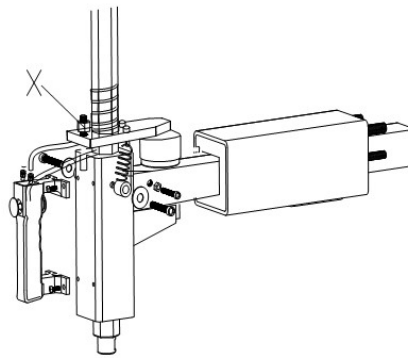


Fig 26

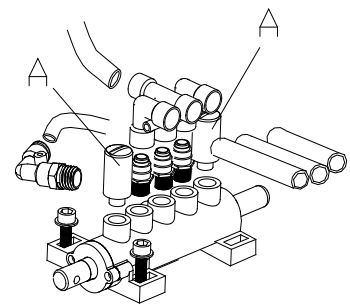


Fig 27

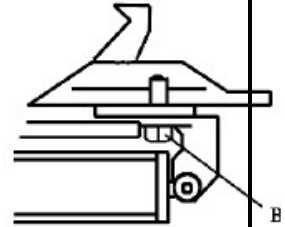
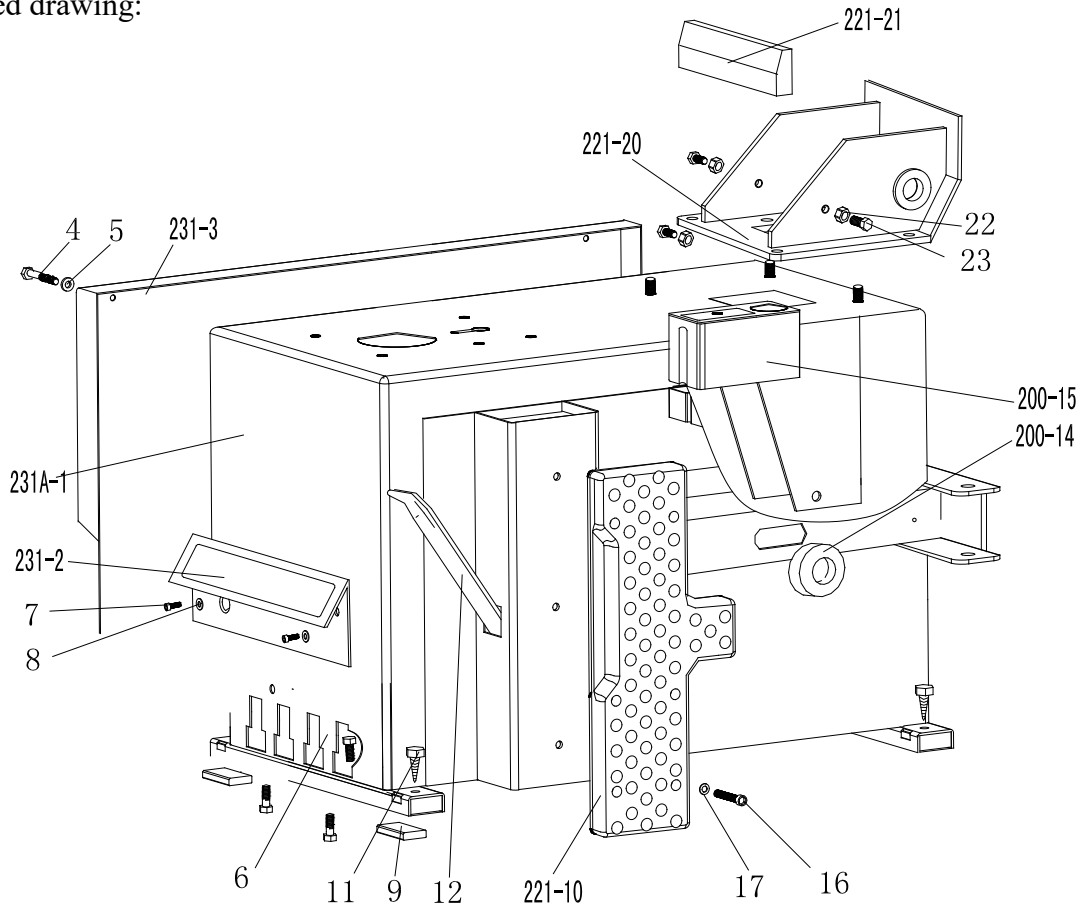


Fig 24

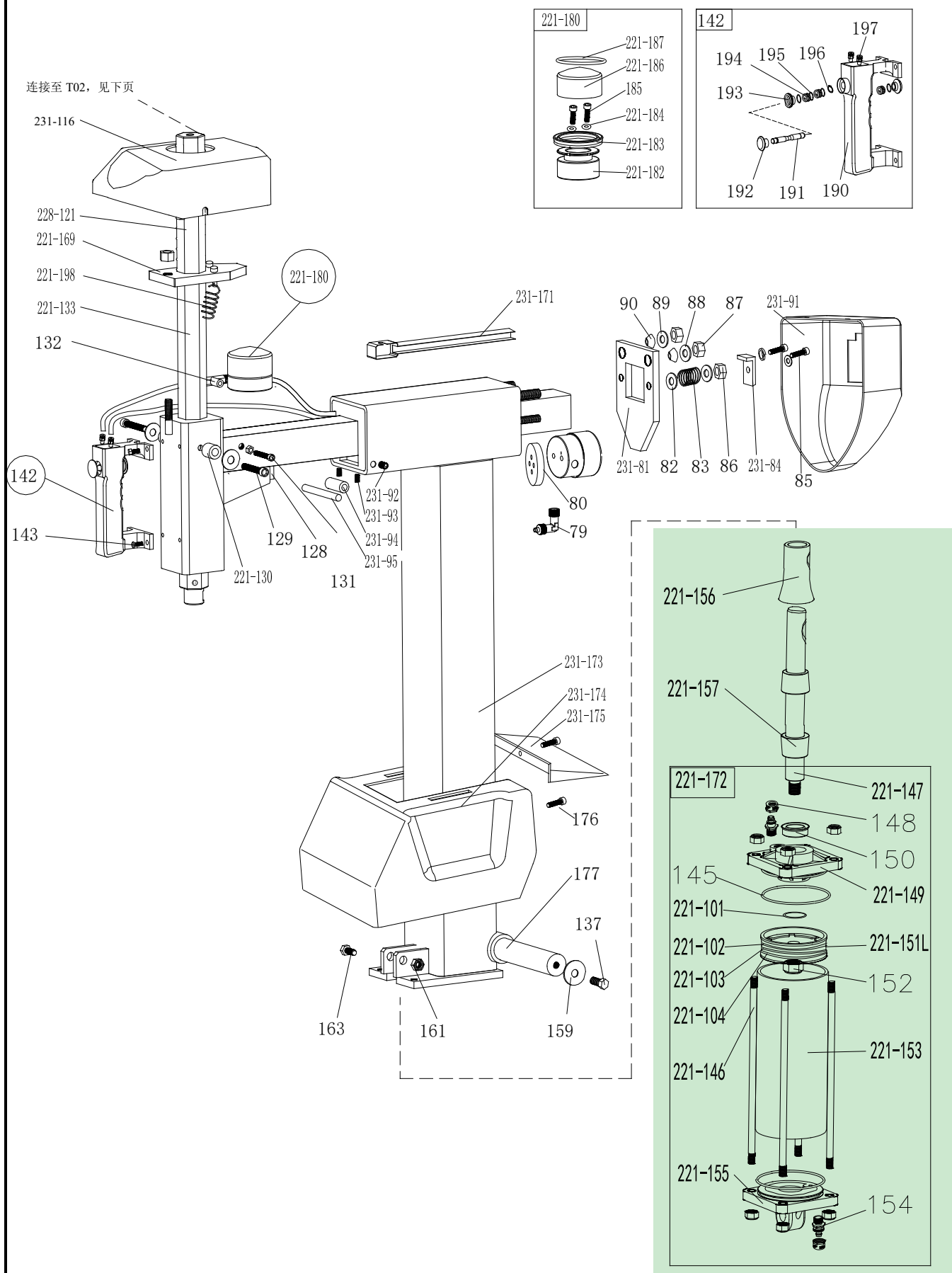
15. Trouble shooting table:

Problem	Reason	Solution
The turntable rotate just in one direction or can't rotate.	Reverse Switch broken	Replace the Reverse Switch
	Belt broken	Replace the belt
	The Motor's malfunction	Check the motor cable or terminal block wire; Replace the motor if it was broken.
Demount or fix the wheel, the turntable can't lock (spin with wheel); The jaws delay to open/close; The turntable locks the rim incorrectly.	Leakage of Air network	Check all the parts on the air network.
	The clamping cylinder can't work.	Replace the cylinder piston.
	Worn jaws	Replace the jaws.
	Broken washers of the chuck cylinder	Replace it.
The mounting head/demounting head always touch the rim during operation.	The locking plate incorrectly adjust or unqualified.	Replace or adjust it.
	Screws on the chuck loose; the Vertical Arm can't be locked by Locking Plate	Tighten the screws; replace the Locking Plate.
The Bead Breaker Pedal and Jaw open and close Pedal can't turn back to the original position.	pedal spring broken	Replace it.
The Bead Breaker shovel operates difficultly.	Jammed silencer	Clean it or replace it.
	The washer on the Bead Breaker cylinder is broken.	Replace it.

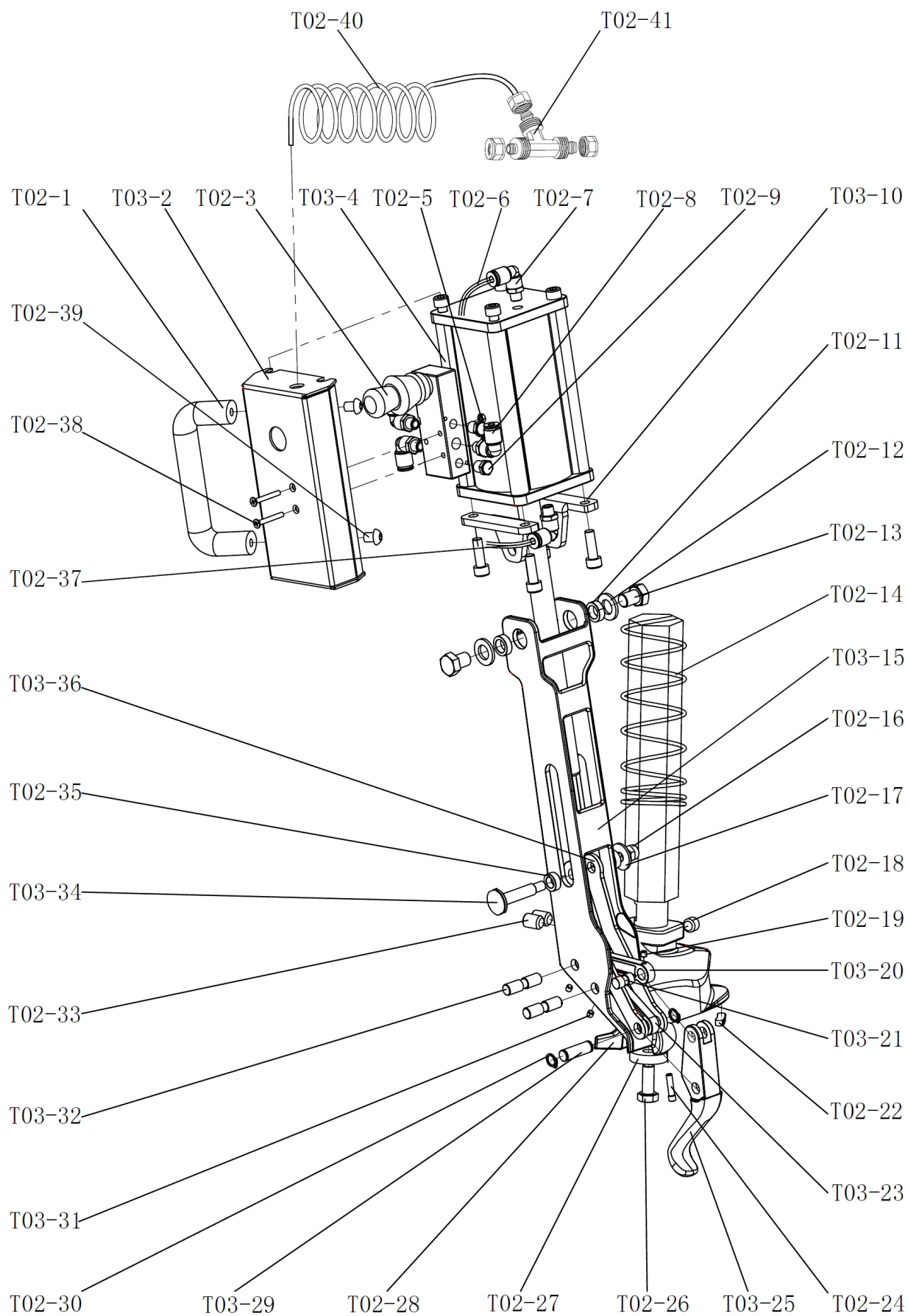
16. Exploded drawing:



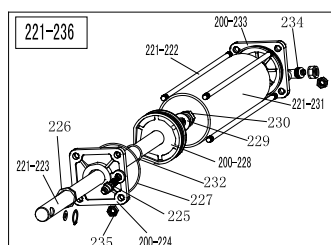
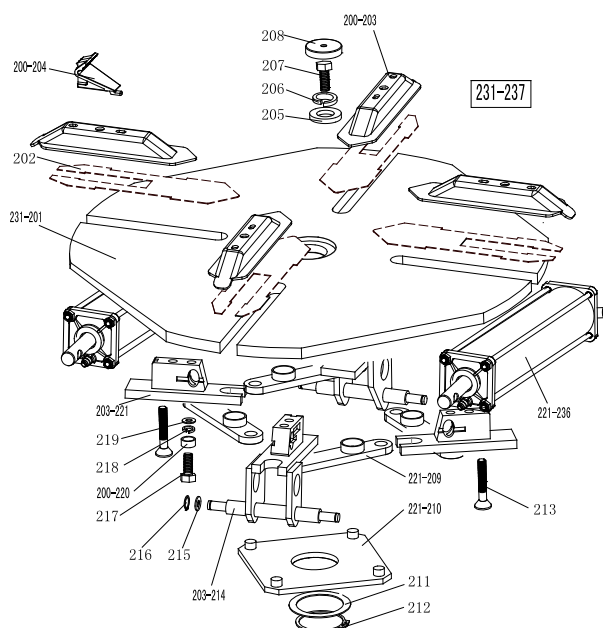
231A-1	CX-231-010000-0	Machine body
231-2	C-231-080000-0	Pedal front cover
231-3	CX-231-020000-0	Left cover
4	B-010-060101-0	Hex socket head bolt M6×10
5	B-040-061412-1	Flat washer Ø6*14*1.2
6	B-014-080251-0	Outer hex bolt M8x25
7	B-014-08201-0	Hex socket head bolt M8×20
8	B-040-082220-1	Flat washer Ø8*22*2
9	C-000-001020-0	Rubber foot buffer
221-10	C-221-500000-0	Bead breaker buffer
11	B-027-060401-0	Grounding screw M6x40
12	C-200-580000-0	Lifting lever
200-14	C-200-510000-0	Bead breaker arm rubber
200-15	C-200-470000-0	Oil-water box
16	B-010-080201-0	Hex socket head bolt M8x20
17	B-040-081715-0	Flat washer Ø8*17*1.5
221-20	CX-221-010106-0	Tilting seat
221-21	C-221-820000-0	Tilting protect cover
22	B-001-100001-0	Self-locking nut M10
23	B-014-100251-0	Outer hex bolt M10*25



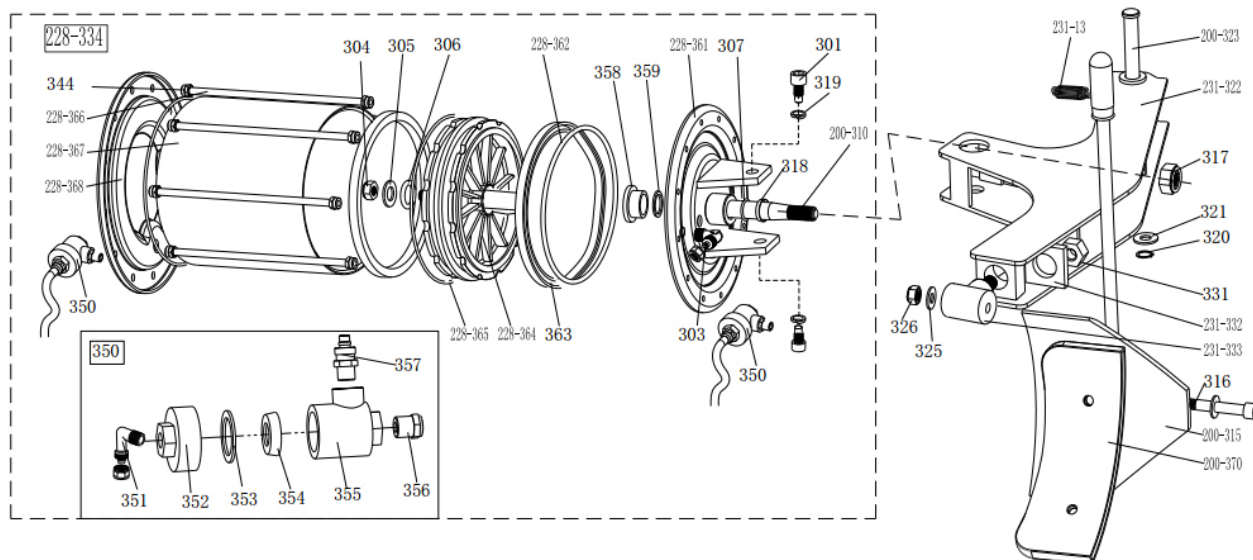
79	S-012-010806-0	Quick union 1/8-Ø6	150	S-005-020075-0	V seal Ø20*28*7.5
80	C-221-250600-0	Locking cylinder plate	221-151L	C-221-550000-L	Tilting cylinder piston(Al-alloy) φ 75
81	CX-231-190000-0	Horizontal arm locking plate	152	B-004-120071-0	Nut (silver) M12*1.5*7
82	B-040-081715-1	Flat washer Φ8*17*1.5	221-153	C-221-350500-0	Tilting cylinder barrel
83	C-221-410000-0	Horizontal arm locking spring	154	S-010-010806-0	Straight union 1/8-Ø6
231-84	CX-231-240000-0	Horizontal arm block	221-155	C-221-350300-0	Titling cylinder cover with handle
85	B-014-080201-0	Outer hex bolt M8*20	221-156	CX-221-351000-0	Tilting cylinder piston rod cover
86	B-001-080001-0	Self-locking nut M8	221-157	C-221-350700-0	Titling cylinder rubber sheath 1
87	B-001-120001-0	Self-locking nut M12	159	B-040-104030-1	Flat washer 10*40*3
88	B-040-122520-1	Flat washer Φ 12*25*2	161	B-001-120001-0	Self-locking nut M12
89	B-040-122520-1	Flat washer Φ 12*25*2	163	B-014-120651-0	Outer hex bolt M12*65
90	C-221-230000-0	Locking spacer	221-169	CX-221-220000-0	Hex locking board 221
231-91	C-231-780000-0	Horizontal arm protection back cover	231-171	C-231-790000-0	Hose guide
231-92	B-007-100161-0	Hex socket head bolt M10*16	221-172	CW-105-021102-0	Complete titling cylinder
231-93	B-007-080161-0	Hex socket head bolt M8*16	231-173	CX-231-250000-A	Column
231-94	CX-231-251300-0	Column side pulley	231-175	C-231-460000-0	Titling Column back cover
231-95	C-231-251400-0	Column side pulley pin	231-174	C-231-450000-0	Column protection cover
231-116	C-231-480000-0	Horizontal arm protection front cover	176	B-024-050161-1	Cross head screw 5*16
119	B-010-100501-0	Hex socket head bolt M10×50			
228-120	C-228-490000-0	Vertical arm cap 228	177	CX-221-260000-0	Column shaft
228-121	C-228-390000-0	Vertical arm spring	221-180		Complete locking cylinder
128	C-221-200000-0	Shock absorber	221-182	CZ-221-090100-0	Complete locking cylinder piston
129	B-010-060351-0	Hex socket head bolt M6×35	221-183	S-005-050065-1	V seal Ø50*60*6.5
221-130	P-120-260000-0	Guide pulley	221-184	S-000-005200-0	O seal Ø5.6X2
131	B-010-060161-0	Hex socket head bolt M6×16	185	B-010-060551-0	Hex socket head bolt M6×55
132	S-017-010806-2	T-union 1/8-2*Ø6	221-186	CX-221-090200-0	Locking cylinder cover Ø60
221-133	CX-221-160000-0	Vertical arm	221-187	S-000-052200-0	O seal Ø52X2
221-134	C-228-520000-0	Vertical arm spring vibration pad	190	C-221-210100-0	Pneumatic handle switch plate
142	CW-119-021100-0	Complete Pneumatic locking switch	191	C-221-210200-0	Pneumatic handle valve rod
143	B-010-060161-0	Hex socket head bolt M6×16	192	C-221-210500-0	Pneumatic valve rod cap
145	S-000-068353-0	O seal Ø68.26*3.53	193	C-221-210300-0	Pneumatic handle cover
221-146	C-221-350900-0	Tilting cylinder threaded	194	C-221-210400-0	Pneumatic handle spacer
221-147	C-221-350200-0	Tilting cylinder piston rod	195	S-000-007265-0	O seal 7.5*2.65
148	B-001-080001-0	Self-locking nut M8	196	B-055-080001-0	Snap ring Ø8
221-149	C-221-350100-0	Tilting cylinder cover without handle	197	S-010-010806-0	Straight union
221-101	S-000-011180-0	O-seal φ 11*1.8	221-198	C-221-400000-0	Hex locking board spring
221-102	S-005-065075-0	Y-seal φ 65*75*6	221-103	S-000-068353-0	O-seal φ 68*3.53
			221-104	S-000-065053-0	O-seal φ 65*5.3



T02-1	C-T02-011100-0	Plastic handle	T02-22	C-2592-150500-0	mount/demount head surface protection pad
T03-2	CX-T03-011000-0	Cylinder cover	T03-23	C-T03-010400-0	Short connecting rod
T02-3	S-030-010414-2	Two position three way hand operated valve	T02-24	C-200-150400-0	Hex socket cylindrical pin
T03-4	C-T03-011200-0	Cylinder of automatic tyre mount/demount head	T03-25	C-T03-010200-0	Automatic mount/demount hook
T02-5	B-004-040001-1	Hex nut (white) M4	T02-26	B-014-100251-0	Hex screw M10*25
T02-6	S-035-060040-1	φ6Air hose	T02-27	CX-200-170000-0	Flat washer
T02-7	S-012-010806-0	Quick elbow connector 1/8-φ6	T02-28	C-2592-150300-0	Protection pad
T02-8	S-012-010406-0	Quick elbow connector 1/4-φ6	T03-29	CX-T03-010600-0	Gudgeon pin
T02-9	S-023-010801-6	Silencer (copper)	T02-30	B-055-100001-0	Circlip φ10
T03-10	CX-T03-011300-0	Cylinder support bracket special for T03 ?	T03-31	B-007-050051-0	Hex socket set screw with flat end M5x5
T02-11	CX-T02-010900-0	Sleeve	T03-32	CX-T03-010700-0	Gudgeon pin
T02-12	B-040-122520-1	Flat washer φ12*24*2	T02-33	C-T02-010100-0	Hex socket set screw with flat end M12*16
T02-13	B-014-120161-0	Hex screw M12*16	T03-34	CX-T03-010500-0	Sliding pin
T02-14	C-T01-100000-0	Hexagonal compressed spring	T02-35	CX-T02-010800-0	Sliding sleeve
T03-15	C-T03-010100-0	Automatic tyre mount/demount head body	T03-36	CX-T03-010900-0	Pull rod
T02-16	B-001-080001-1	Self-locking nut M10	T02-37	S-012-010806-0	Quick elbow connector1/8-φ6
T02-17	B-040-082220-1	Flat washer φ8*22*2	T02-38	B-017-040301-0	Cross recessed countersunk head screw M4x30
T02-18	B-007-120121-0	Hex socket set screw with flat end M12*12	T02-39	B-025-080101-0	Hexagon socket flat head screw M8x10
T02-19	B-007-050051-0	Hex socket set screw with flat end M5x5	T02-40	C-T01-120000-0	Extension spiral tube φ6
T03-20	C-T03-010300-0	Long connecting rod	T02-41	S-015-000006-6	Tee connector (mini)1/8-φ6
T03-21	CX-T03-010600-0	Gudgeon pin			

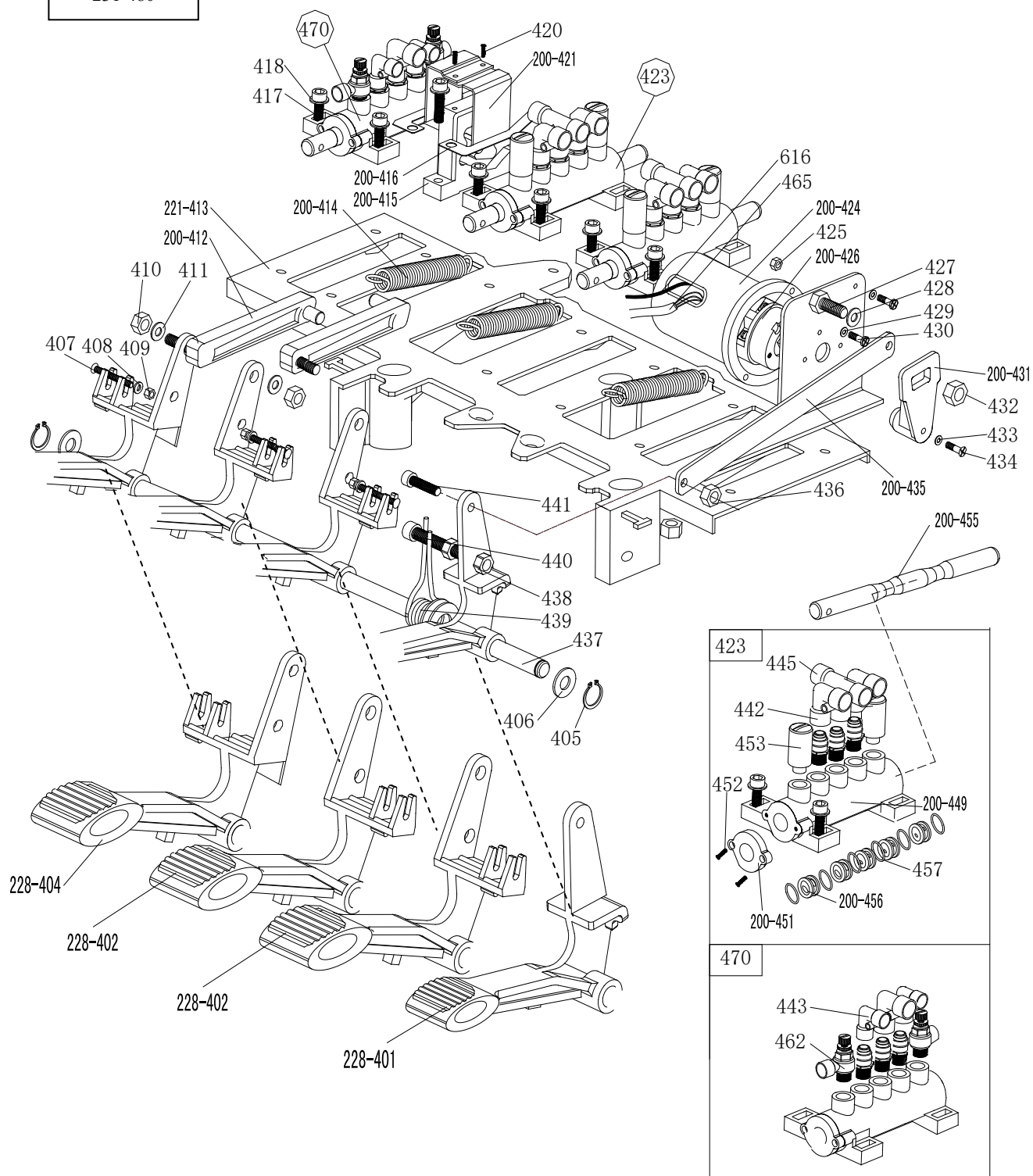


231-201	CX-231-130000-0	Turntable 650
202	CX-221-120300-0	Jaw sliding plate(optional)
200-203	CX-200-120000-0	Jaw cap assembly
200-204	C-200-570000-0	Jaw
205	CX-200-140000-0	Big washer
206	B-050-160000-0	Spring washer Ø16
207	B-014-160401-0	Outer hex bolt M16×40x1.5
208	C-200-440000-0	Turntable cap
221-209	CX-221-310000-0	Connection rod assembly 615
221-210	CX-221-280000-0	Square turntable 615
211	CX-200-290000-0	Square turntable washer
212	B-055-650001-0	Snap ring Ø65(shaft)
213	B-012-120631-0	Hex socket head bolt
203-214	CX-203-110000-0	Jaw slide guide with pin double holes
215	B-040-122520-1	Flat washer Ø12X25X2
216	B-055-120001-0	Snap ring Ø12(shaft)
217	B-014-120801-0	Hex socket head bolt M12×40
218	B-046-122050-1	Teeth locking washer Ø12×20.5×1
219	B-040-123030-1	Flat washer Ø12X30X3
200-220	CX-200-300000-0	Connection rod nut
203-221	CX-203-110100-0	Jaw slide guide without pin double holes
221-222	C-221-100400-0	Threaded connection rod 393
221-223	C-221-100200-0	Clamping cylinder piston rod 400
200-224	C-200-100100-0	Clamping cylinder cover without handle
225	S-011-010808-0	Straight union 1/8"-Ø8
226	S-005-020075-0	V- seal 20*28*7.5
227	S-000-063265-0	O- seal 63*2.65
200-228	C-200-540000-0	Clamping cylinder piston Ø70
229	B-040-122520-1	Flat washer Ø12X25X2
230	B-004-120071-1	Nut M12X7X1.75
221-231	C-221-100500-0	Clamping cylinder barrel 360
232	S-000-019262-0	O- seal Ø19.6X2.62
200-233	C-200-100300-0	Clamping cylinder cover with handle
234	S-018-010808-0	Union 1/8"-Ø8
235	B-001-080001-0	Self-locking nut M8
221-236	CW-105-021100-0	Complete clamping cylinder
231-237	CW-104-023100-0	Complete square turntable 650



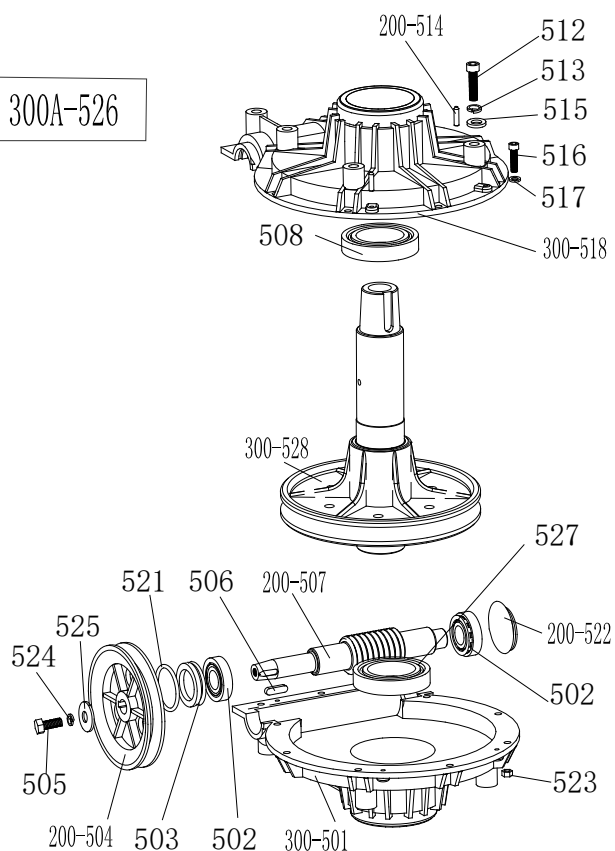
301	B-010-140301-0	Hex socket head boltM14×30	231-13	C-231-360000-0	Bead breaker arm spring
			231-332	CX-231-030900-0	Bead breaker arm rotating shaft spacer
303	S-018-010408-0	Union (90°) 1/4-Ø8	231-333	CX-231-030800-0	Bead breaker arm rotating shaft
304	B-001-160001-1	Nut M16*1.5	228-334	CW-108-209800-0	Complete bead breaker cylinder
305	B-040-162820-1	Flat washer Ø16*28*2	344	B-001-080001-0	Self-locking nut
306	S-000-016265-0	O-seal Ø 16*2.65	350	CW-112-209800-0	Bead breaker cylinder exhaust valve
307	S-000-019262-0	O-seal Ø 19.6*2.62	351	S-012-010808-0	Union 1/8-Ø8
200-310	C-200-050100-0	Bead breaker cylinder piston rod	352	C-098-600200-0	Bead breaker cylinder exhaust valve cover
200-315	CX-200-070000-0	Bead breaker shovel assembly	353	C-098-600400-0	Seal washer
316	B-010-120901-0	Hex socket head bolt M12×90	354	C-098-600300-0	Bidirectional seal
317	B-001-160001-1	Self-locking nut M16*1.5	355	C-098-600100-0	Bead breaker cylinder exhaust valve barrel
318	U-006-000001-1	Guide belt	356	S-023-010401-6	Muffler
319	B-050-140000-0	Spring washer Ø14	357	S-010-010408-0	Straight union 1/4- Ø8
320	B-055-160001-0	Snap ring Ø16	358	CZ-298-050900-0	Nylon cover
321		Flat washer	359	S-005-0200075-0	V-seal20*28*7.5
231-322	CX-231-030000-0	Enlarge bead breaker arm 231	228-361	CX-298-050500-0	Bead breaker cylinder cover assembly
200-323	CX-200-040000-0	Bead breaker pin	228-362	S-000-195265-0	O-sealØ198*3.1
325	B-040-122520-1	Flat washer Ø12*24*2	363	S-005-200184-0	Y-sealD200*184*12
326	B-001-120001-0	Self-locking M12	228-364	C-298-050200-0	Bead breaker cylinder piston D200
331	B-001-160001-0	Self-locking nut M16*1.75	228-365	S-000-180500-0	O-seal 180x5
			228-366	C-298-051000-0	Bead breaker cylinder barrel
			228-367	C-298-050300-0	Bead breaker cylinder back cover
			228-368	C-298-051100-0	Tire pressing shovel protector
			200-370	C-200-070600-0	Bead breaker shovel protection cover

231-480

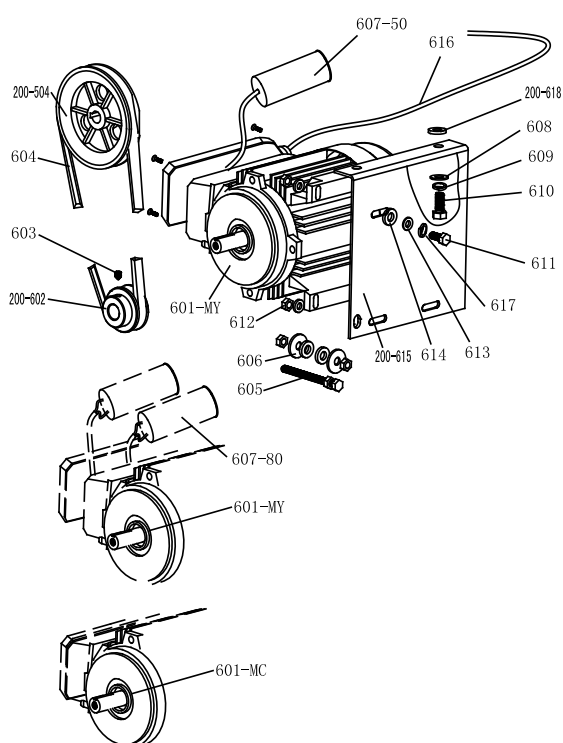


228-401	C-228-060400-0	Reverse switch pedal	430	B-024-040161-0	Cross head screw M4*16
228-402	C-228-060300-0	5-way valve pedal(right)	200-431	C-200-530000-0	Reverse switch handle
228-404	C-228-060200-0	5-way valve pedal(left)	432	B-001-060001-0	Self-locking nut M6
405	B-055-120001-0	Snap ring Ø12	433	B-040-030000-1	Flat washer Ø3
406	B-040-122520-1	Flat washer Ø12*24*2	434	B-017-030161-0	Cross head screw M3X18
407	B-024-040301-0	Cross head screw M4X30	200-435	CX-200-060600-0	Pedal connection rod
408	B-040-040000-1	Flat washer Ø 4	436	B-001-080001-0	Self-locking nut M8
409	B-001-040001-0	Self-locking nut M4	437	CX-200-060700-0	Pedal front shaft
410	B-001-080001-0	Self-locking nut M8	438	B-004-080001-0	Nut M8
411	B-040-081715-1	Flat washer Ø8*17*1.5	439	C-200-370000-0	Pedal twist spring
200-412	C-200-061300-0	Cam connection rod	440	B-010-080501-0	Hex socket head bolt M8×50
221-413	C-221-060100-0	Pedal support board	441	B-010-080201-0	Hex socket head bolt M8×20
200-414	C-200-380000-0	Pedal Spring	442	S-012-010808-0	Quick union1/8- Ø 8
200-415	C-200-061500-0	Cam	443	S-012-010806-0	Quick union1/8- Ø 6
200-416	C-200-810000-0	Cam washer	445	S-016-010808-2	Quick T-union1/8-2* Ø 8
417	B-010-060201-0	Hex socket head bolt M6×20	200-449	C-200-060901-0	5-way valve barrel (right)
418	B-040-061210-1	Flat washer Ø6	200-451	C-200-061100-0	5-way valve cover
420	B-019-290121-0	Cross head self tapping screw 2.9*12	452	B-024-290-121-0	Cross head ST2.9*14
200-421	CX-200-060500-0	Cam cover	453	S-023-010801-0	Muffler 1/8"
423	CW-110-020001-0	Complete 5-way valve(T-union),without valve rod	200-455	CX-200-061200-0	5-way valve rod
200-424	C-200-061400-0	Reverse switch cover	200-456	C-200-061000-0	5-way valve rod spacer
425	B-004-040001-0	Nut M4	457	S-000-012400-0	O seal 12*20*4
200-426	S-060-016000-1	Reverse switch	462	S-030-010806-0	Throttle valve
427	B-010-060201-0	Hex socket head bolt M6×20	470	CW-110-021102-0	Complete 5-way valve(tilting),without valve rod
428	B-040-061210-1	Flat washer Ø 6X12X1	465	CZ-000-103150-0	Power supply cable
231-480	CW-109-023100-0	Complete 4-pedals assembly 231	616	CZ-000-205150-0	Motor cable
429	B-040-040000-1	Flat washer Ø 4			

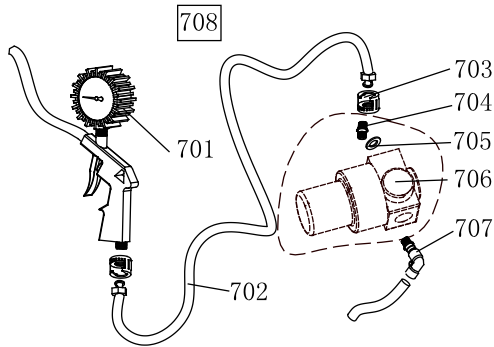
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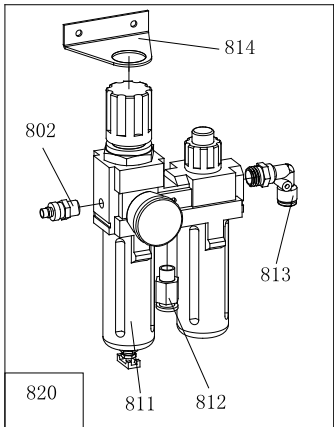
200-501	C-300-320302-0	Gear box lower cover
502	S-040-030204-0	Bearing 30204
503	S-005-020080-1	Gear box seal $\phi 20 \times 35 \times 8$
200-504	C-200-320500-0	Gear Belt pulley
505	B-014-080251-0	Outer hex bolt M8 \times 25
506	B-065-006020-0	Key washer 6 \times 20
200-507	C-200-320400-0	Worm rod
508	S-040-006010-0	Bearing 6010
200-509	C-200-320200-0	Worm gear shaft
200-510	C-200-320100-0	Worm gear
200-511	CZ-200-320600-0	Worm gear shaft sleeve
512	B-014-100551-0	Outer hex bolt M10 \times 55
513	B-050-100000-0	Spring washer $\phi 10$
200-514	B-060-006020-0	Pin 6X20
515	B-040-102020-1	Flat washer $\phi 10 \times 20 \times 2$
516	B-010-060201-0	Hex socket head bolt M6 \times 20
517	B-040-061412-1	Flat washer $\phi 6 \times 14 \times 1.2$
200-518	C-300-320301-0	Gear box upper cover
519	B-065-010040-0	Flat key 10 \times 40
520	B-065-014040-0	Flat key 14 \times 40
521	S-000-030355-0	O-seal $\phi 30 \times 3.55$
200-522	C-200-320700-0	Oil resistant seal
523	B-001-060001-0	Self-locking nut M6
524	B-050-080000-0	Spring washer $\phi 8$
525	B-040-083030-1	Flat washer $\phi 8 \times 30 \times 3$
200-526	CW-107-020001-A	Complete gear box



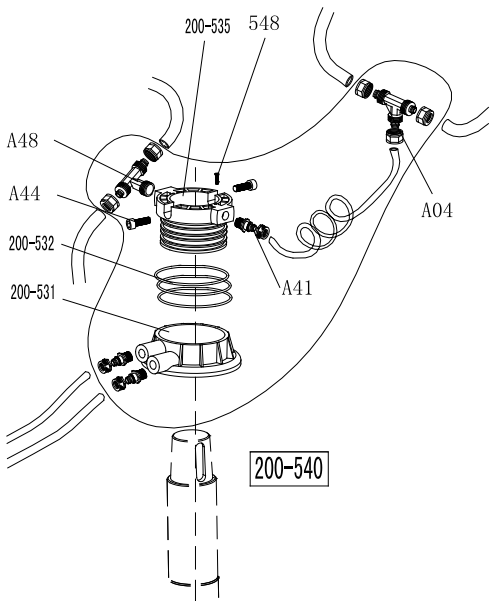
200-504	C-200-320500-0	Gear Belt pulley
601-MC	S-050-220110-5	Motor 220V/50HZ
601-MY	S-050-230075-0	Motor 220v
200-602	CX-200-330000-0	Motor Belt pulley
603	B-007-080121-0	Hex socket head bolt M8 \times 12
604	S-042-000686-0	Tyre changer belt A-28
605	B-014-080651-0	Outer hex bolt M8 \times 65
606	B-040-083030-1	Flat washer $\phi 8 \times 30 \times 3$
607-80	S-063-008000-0	Capacitor 80 μ f, 110V
607-50	S-063-005000-0	Capacitor 50 μ f, 220V
608	B-040-102020-1	Flat washer $\phi 10 \times 20 \times 2$
609	B-050-100000-0	Spring washer $\phi 10$
610	B-014-100251-0	Outer hex bolt M10 \times 25
611	B-014-080351-0	Outer hex bolt M8 \times 35
612	B-004-080001-0	Nut M8
613	B-040-082220-1	Flat washer $\phi 8 \times 22 \times 2$
614	C-200-560000-0	Motor rubber washer
200-615	CX-200-340000-1	Motor support
616	CZ-000-205150-0	Motor cable 5 \times 1.0
617	B-050-080000-0	Spring washer $\phi 8$
200-618	C-200-560000-0	Motor rubber buffer



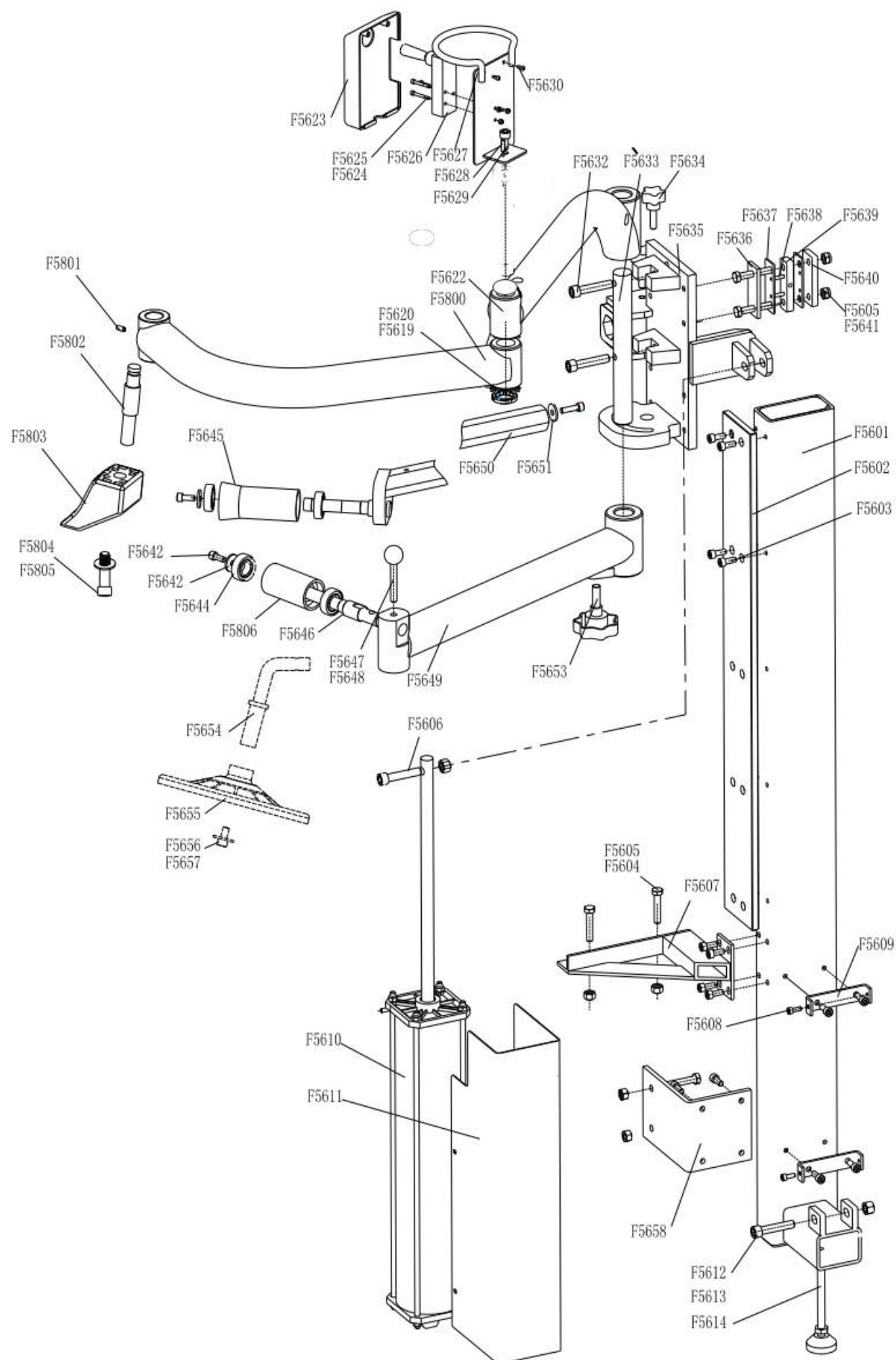
701	S-038-000100-0	Inflating gun indicator
702	S-035-014150-1	Rubber connection hose
703	S-025-104008-0	Notch nut
704	S-011-010414-1	Straight union 1/4-1/4
705	B-040-132420-1	Flat washer Ø13
706	S-030-010400-2	Pressure adjust valve(optional)
707	S-012-010408-0	Quick union 1/4-Ø8
708	CW-090-000201-0	Complete inflating gun



802	S-025-000050-0	Quick union PM20
811	S-033-350000-0	oil fog maker 3500
812	S-010-010806-0	Quick straight union 1/8-Ø8
813	S-018-010408-0	Two-way elbow union 1/4- Ø8
814	C-200-011200-0	oil fog maker support
820	CW-114-033000-0	Complete oil fog maker 3300

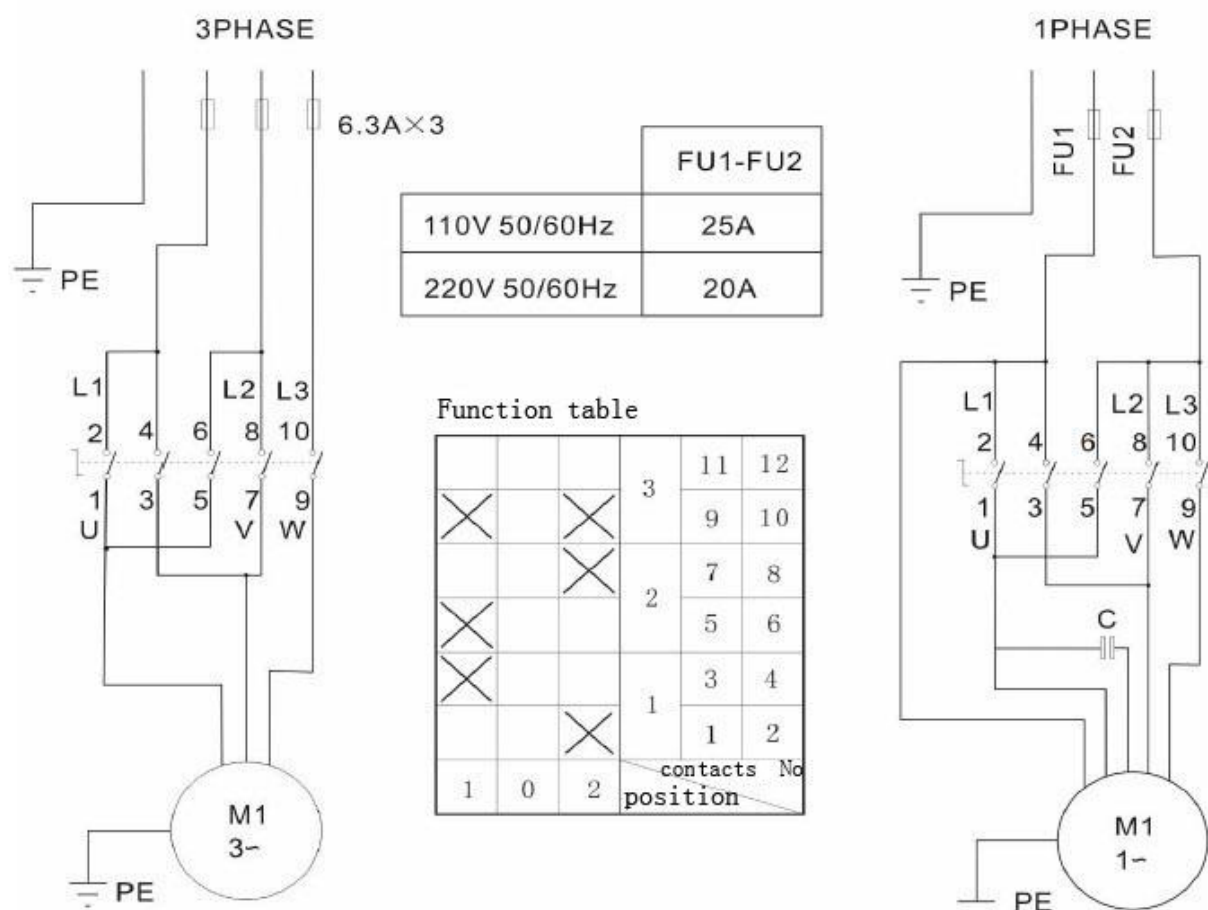


A04	S-015-000008-3	T-union 3* Ø 8
A44	B-010-060161-0	Hex socket head bolt M6×16
A48	S-017-010808-2	Quick T-union
200-531	CZ-200-430100-0	Rotating valve casing
200-532	S-000-059262-0	O-seal 59.9X2.62
200-535	CZ-200-430200-0	Rotating valve mandrel
537	S-035-055080-0	Hose 5.5* Ø 8
A41	S-011-010808-0	Straight union 1/8-Ø8
548	B-007-040061-0	Hex socket head bolt M4X6
200-540	CW-016-020000-2	Complete Rotating valve



F5601	CX056-010000-0	Column assembly			
F5602	CX-007-020000-0	Guide rail	F5632	B-010-120551-0	Hex socket head screw M12*55
F5603	B-010-080251-0	Hex socket head screw M8*25	F5633	C-056-090000-0	Shaft
F5604	B-001-100001-0	Locking nut M10	F5634	C-006-210000-0	Pentagon M10
F5605	B-014-100601-0	Hex socket head bolt M10*60	F5635	CX-056-030000-0	056 help arm base assembly
F5606	B-014-100601-0	Hex socket head bolt M10*60	F5636	CX-007-040000-0	Friction plate inside
F5607	CX-056-010500-0	Support assembly	F5637	CX-007-070000-0	Friction plate' isolation block
F5608	B-024-060121-0	Cross round head screw M6*12	F5638	CZ-007-080000-0	Guide plate positioning pin
F5609	CX-056-010700-0	Connecting board for cylinder cover	F5639	U-006-000001-2	Guide belt
F5610	C-056-150000-0	056 help arm cylinder	F5640	CX-007-050000-0	Friction plate outside
F5611	CX-056-100000-0	056 help arm cylinder cover	F5641	B-001-100001-0	Locking nut M10
F5612	B-010-121201-0	Hex socket head bolt M12*120	F5642	B-010-080201-0	Hex socket head screw M8*20
F5613	B-001-120001-0	Hex nut M12	F5643	B-040-082220-1	Washer Ø8*22*2
F5614	C-056-170000-0	Support feet	F5644	S-040-006004-0	Bearing 6004-Z
F5615	B-001-060001-0	Hex nut M6	F5645	CZ-056-110000-0	Tire pressing roller
F5616	B-010-060301-0	Hex socket head bolt M6*30	F5646	CX-056-130000-0	Tire pressing rotating shaft
F5617	C-056-140000-0	Pin for tire pressing head	F5647	C-206-120800-0	Pin block
F5618	C-008-090100-0	Tire pressing head (Upper)	F5648	CX-206-120700-0	Pin
F5619	B-045-000027-0	Stop washer	F5649	CX-056-050000-0	Tire lifting rod assembly
F5620	B-004-270001-1	Round nut M27	F5650	CX-056-040000-0	Tire pressing rod assembly
F5621	CX-056-070000-0	Rotating arm assembly 2	F5651	B-040-083030-1	Big washer 8*30*3
F5622	CX-056-060000-0	Rotating arm assembly 1	F5653	C-238-201501-0	Adjustable handle
F5623	C-007-181000-0	Handle valve cover	F5654		Tire lifting rotating shaft assembly (optional)
F5624	B-017-040301-0	Cross head screw M4*30	F5655	C-005-100000-0	Tire lifting roller (optional)
F5625	B-004-040001-0	Nut M4	F5656	B-040-102020-1	Flat washer (optional)
F5626	S-030-010818-0	Handle valve	F5657	B-010-100251-0	Hex socket head screw M10*25 (optional)
F5627	CX-056-120000-0	Control board assembly	F5658	CZ-056-010600-0	Connecting board
F5628	B-010-050101-0	Hex socket head screw M5*10			
F5629	B-010-100251-0	Hex socket head screw M10*25	F5660	C-238-201501-0	Adjusting handle
F5630	B-024-040161-0	Cross head screw M4*16	F5806	CZ-056-180000-0	Tire pressing roller 2

17. Circuit diagram:



18. Pneumatic drawing:

