

TYRE CHANGER

TC-712A



INSTRUCTION & MAINTENANCE MANUAL



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.

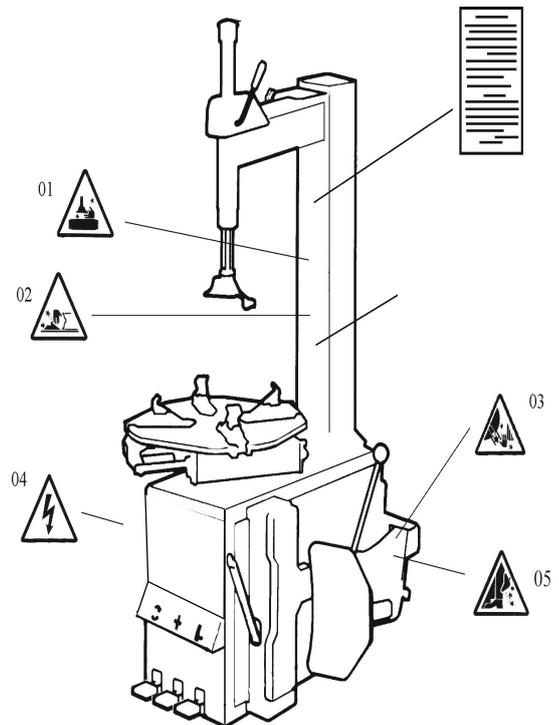
1. Introduction:

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.

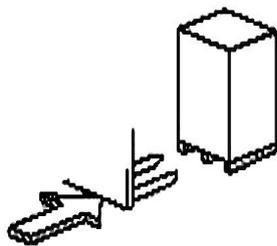


Fig 1

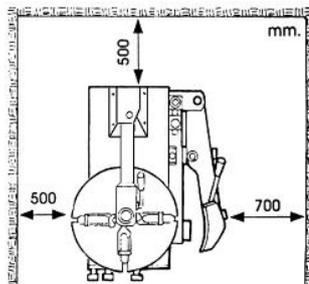


Fig 2

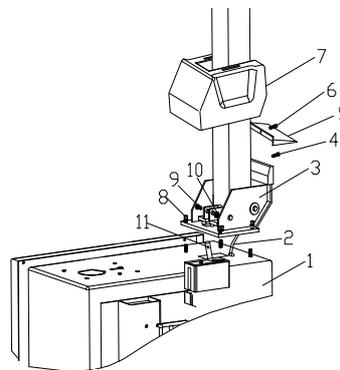


Fig 3

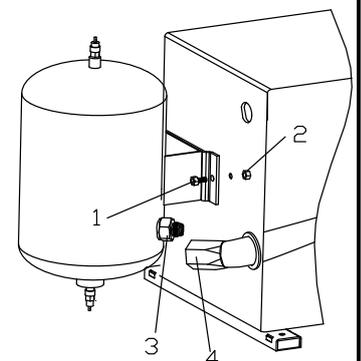


Fig 4

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**)

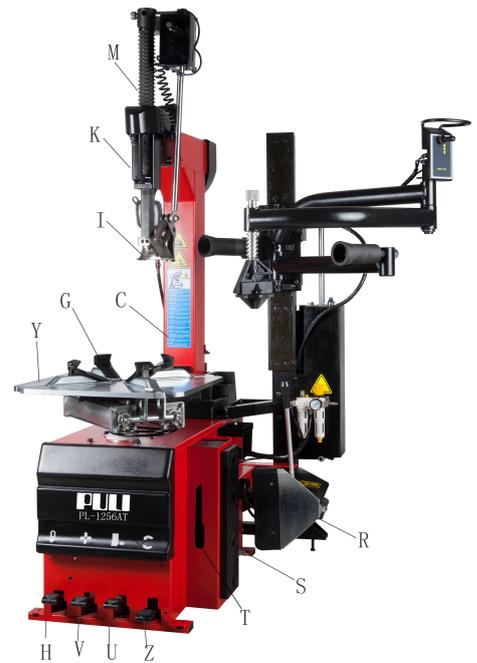


Fig E

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:



Inflation pedal (B)



Turntable rotating pedal (Z)



Jaws open and close pedal (V)



Bead breaker pedal(U)



Tilting pedal (H)

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

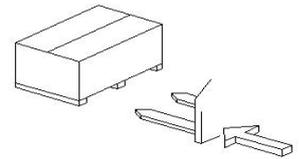


Fig 5

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.

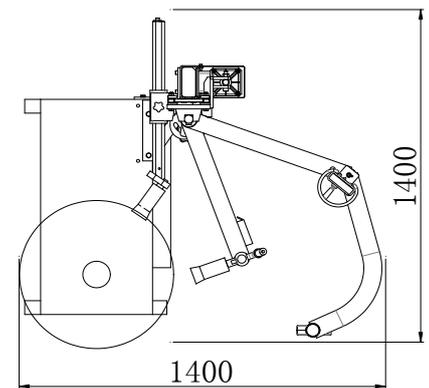


Fig 6

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.

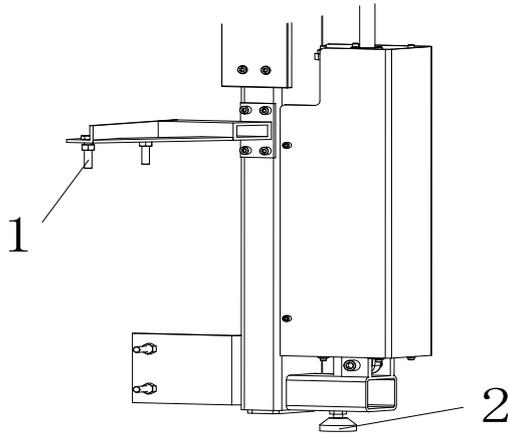


Fig 7

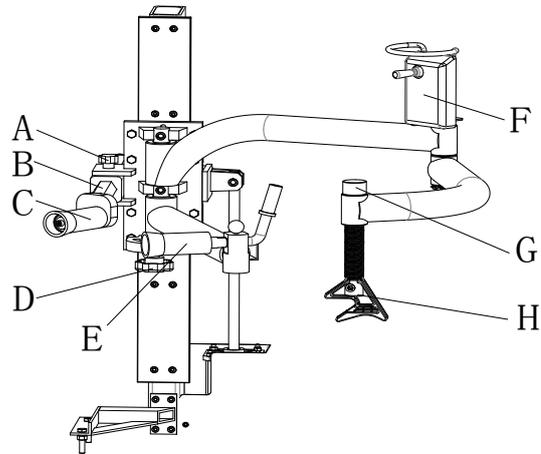


Fig 8

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 | |

10.5. Operations

The operation of the help arm with the use of **Automatic mount/demount head(T-shape)**, please refer to the details below in the operation of chapter 11.6

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

Automatic Mount/demount head (T-shape) is an auxiliary device for tyre changer. Lifting lever will not be used to mount/demount tyres after using this device which can reduce man-power for operators furthest and the risk of scratching the tyre beads and the tyre rims. Correct and skilled operation can get the twice result with half the effort.

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.

11. 1. Technical data

Work Pressure	8~10 bar
Weight	8kg
Package dimension	750*200*250mm
Noise Level	LpA<75dB

11.2. 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



11.3. Transport and 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.

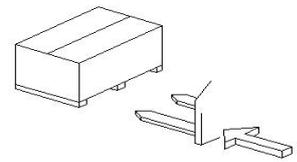


Fig 9

11.3.1. Transport

Move the device with a forklift truck/ appropriate tool as illustrated in Fig 9.

11.3.2. 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.

11.3.3. Position of installation

Fig 10 shows the position of installation. Please choose the right place to install it to the vertical arm rod of tyre changer.

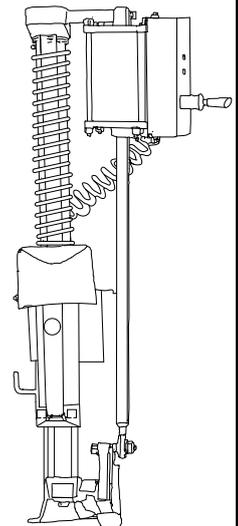


Fig 10

11.3.4 Assembly (shown as Fig 11)

- 1) Disconnect the tire changer from power supply and air source.
- 2) Put the vertical arm rod into the slide arm sleeve. Fix the automatic mount/demount head hook 4 on the vertical arm rod with the hex socket head screw 1, hexl head socket bolt 2 and flat washer 3.
- 3) Rip the spring 16 into the upper end of vertical arm rod. Install the vertical arm rod cover plate to the vertical arm rod with the inner hex socket head screw 5.
- 4) Connect the air pipe 17-1, 17-2 to the air outlet of push valve 7.
- 5) Connect the spiral air pipe 8 to the air inlet of push valve 7.
- 6) Install the push valve support on the cylinder of automatic mount/demount head 10 with the nut 9.
- 7) Fix the cylinder 10 on the vertical arm rod cover 6 with inner hex socket head screw 11 and rip the spiral air pipe 8 into the locking cap 12.
- 8) Snip the air pipe 13, install the 1/8 quick union 14 in situ and connect the spiral pipe 8.
- 9) Fix the piston rod of cylinder on the automatic mount/demount head hook 4 with the nut 15.

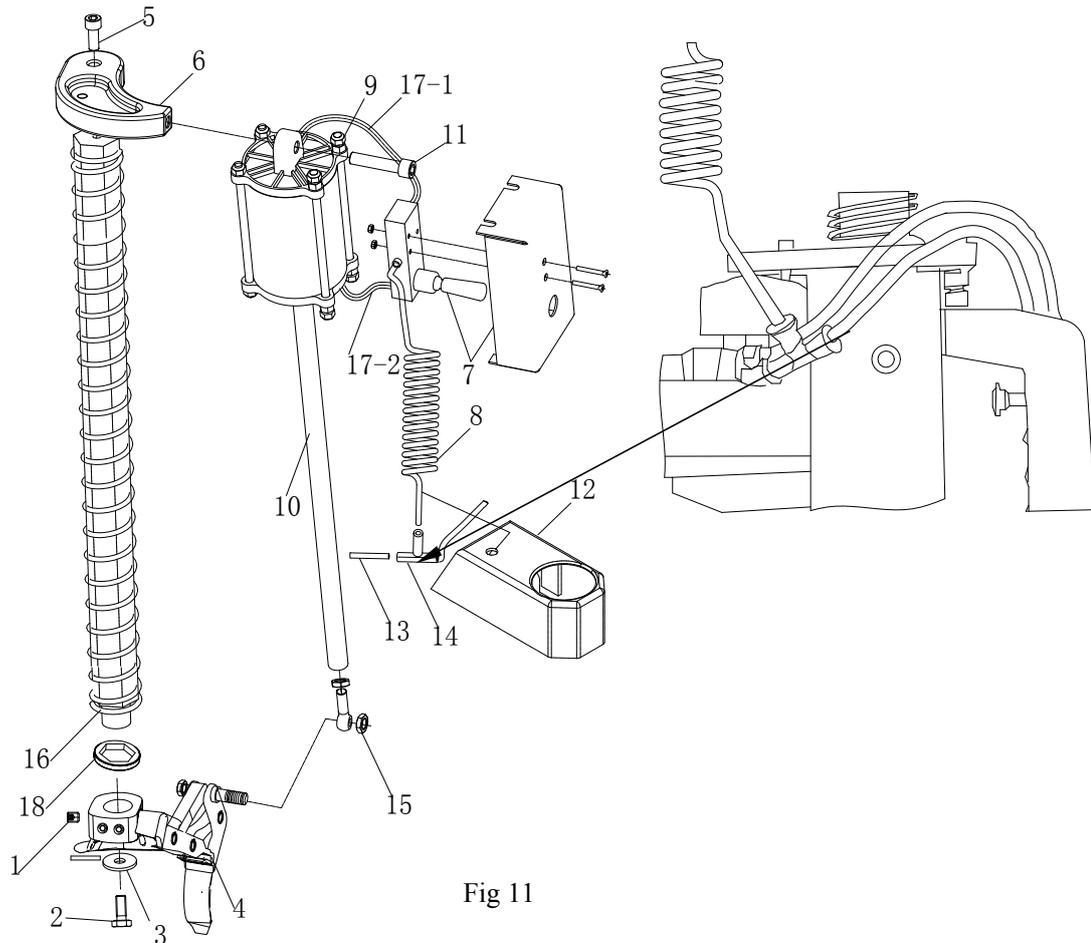


Fig 11

11.4. Essential condition for adjusting operation

Connect the Automatic Mount/demount head (T-shape) well with the air compressor and insure to input steady pressure 8~10 bar when operating it.

11.5. Operation

Automatic Mount/demount head (T-shape) system is an auxiliary device to help the operators to mount and demount tyres much more conveniently.

11.5.1. Fixing the tire

Deflate the tyre completely, put the tyre hub on the turntable and lock the tyre rim. Loosen the bead with the bead breaker shovel according to the manual of general tyre changer when the tyre is tight.

11.5.2. Demounting the tire

Caution: Lubricate the tire head (upper and bottom) before the operation

1. Loosen the tyre

- 1) The flat tyre will be tight, loosen it with the bead breaker and fix the tyre later.
- 2) Pull out the tyre pressing rod to make the tyre pressing roller above the tyre (**Fig 12-a**) without touching the tyre rim.
- 3) Lower the tyre pressing roller by switch handle to press the tyre. Tread the pedal to rotate the turntable. Loosen the bead during this procedure and wipe the lubricants

2. Demounting the upper bead

- 1) Adjust the slide arm, make the mount/demount head close to the tyre rim(**Fig 12-b**) and lock the hexagonal lever.
- 2) Lower the push valve of automatic mount/demount head hook cylinder(**Fig 12-c**), make the active parts of automatic mount/demount head hook go deep into the inside tyre from the tyre hob edge(**Fig 12-d**). Pull the lifting roller up to lift the help arm(**Fig 12-e**). Return the tyre pressing rod and pull the push valve of automatic mount/demount head hook to let the active parts of automatic mount/demount head hook lift the tyre rim
- 3) Mounting and demounting big flat anti-explosive tyres need to use the help arm. Rotate the tyre pressing arm to the opposite of mount/demount head in a position of six o'clock. Adjust the threaded rod(**Fig 12-g**), pull the lifting roller(**Fig 12-e**) down, press the tyre at the min position of the tyre rim in order to make the automatic mount/demount head hook hike the tyre edge(**Fig 12-f**), and then rise the help arm to move the tyre to its non-working position
- 4) Tread the rotated pedal to rotate the turntable. With the help of the tire pressing head, the upper tire bead is detached

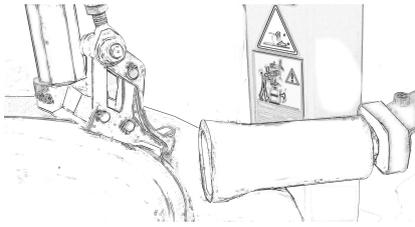


Fig 12-a

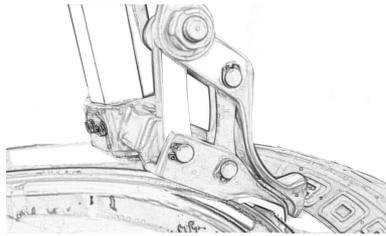


Fig 12-b

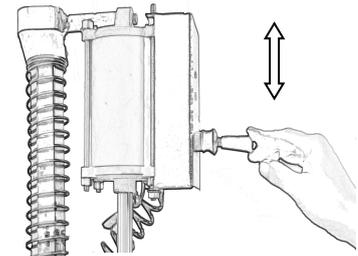


Fig 12-c

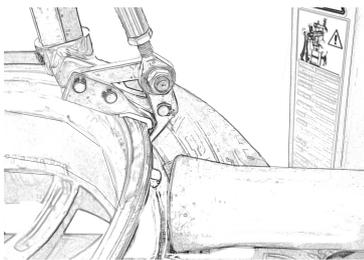


Fig 12-d

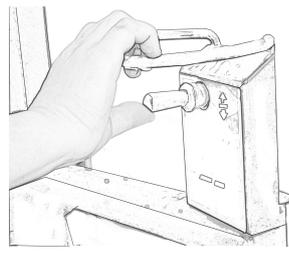


Fig 12-e

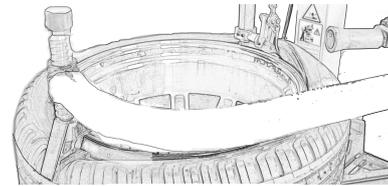


Fig 12-f



Fig 12-g

3. Demounting the bottom bead

- 1) Pull out the tyre pressing rod to make the tyre pressing roller below the tyre (**Fig 13-a**) without touching the tyre rim.
- 2) Pull the lifting roller up to lift the bottom tyre bead to the upper edge of the tyre rim.
- 3) Lower the push valve of automatic mount/demount head hook cylinder, make the active parts of automatic mount/demount head hook go deep into the inside tyre from the tyre hob edge(**Fig 13-b**). Pull the push valve of automatic mount/demount head hook to let the active parts of automatic mount/demount head hook lift the tyre rim.
- 4) Tread the rotated pedal and rotate the turntable to demount the tyre bottom bead from the tyre rim.
- 5) Return the tyre pressing rod to move the tyre pressing roller to its non-working position

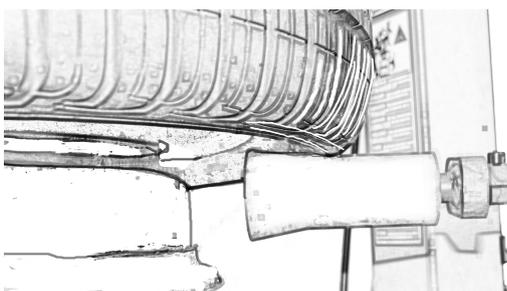


Fig 13-a



Fig 13-b

11.5. 3. Mounting the tyre

Caution: Lubricate the tire head before the operation

1. Mounting the bottom bead

Operate the push valve of automatic mount/demount head hook cylinder to let the automatic mount/demount head hook return to its home position (**Fig 14**). Put the tyre on the rim slantly, put the one side of the bottom bead above the tail of mount/demount head and the other side below head of mount/demount head. Press the tyre with hand or the tyre pressing roller of help arm, rotate the turntable to mount the bottom tyre bead

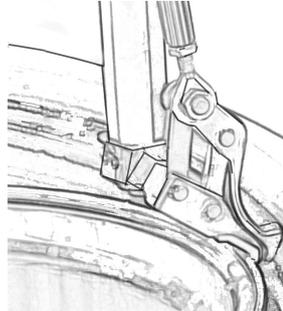


Fig 14

2. Mounting the upper bead

- 1) Adjust the screw rod (**Fig 12-g**), pull out the tyre pressing rod and adjust the tyre lifting rod, make both of the tyre pressing rollers press above the tyre. (**Fig 15-a**)
- 2) Rotate the swing arm, move the tyre pressing block above the tyre (**Fig 15-a**) and lower the lifting roller to let the tyre pressing block press the tyre at the min position of the tyre rim.
- 3) Tread the rotated pedal and rotate the turntable, the tyre pressing block moves accordingly (**Fig 15-b**). Mount the upper bead with the mount/demount head.
- 4) Pull up the lifting roller to move the tyre pressing roller and tyre pressing block to their non-working position.

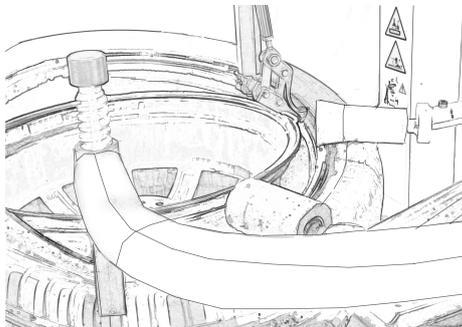


Fig 15-a

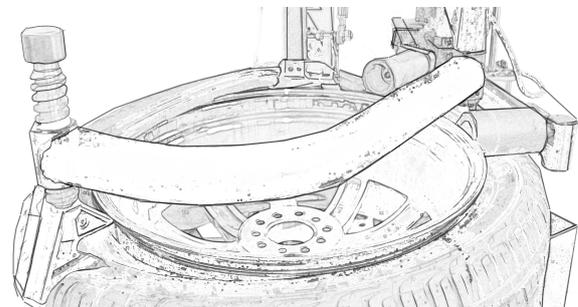


Fig 15-b

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 tyre 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;

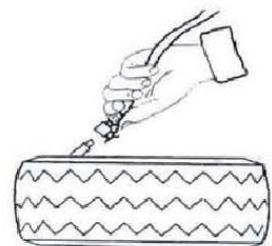


Fig 16

Please operate as follows: (Fig 16)

- 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.

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.

- 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 17)

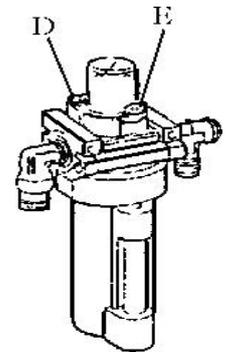


Fig 17

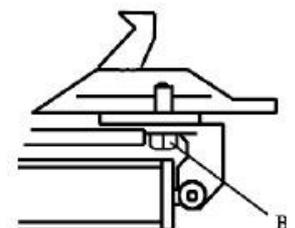


Fig 18

Note: After the first 20 days of use, retighten the jaws with tightening screws (B) on the Turntable (Fig 18)

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 19)

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 20 and 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. **(Fig 21)**

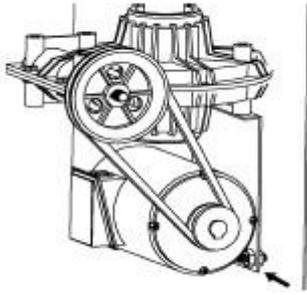


Fig 19

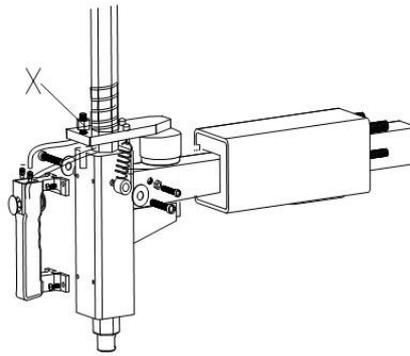


Fig 20

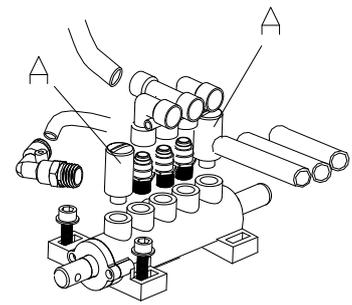


Fig 21

15. Rapid tyre inflation system

1). Rapid Tire Inflation Device:

2). Note: before inflating operation, please make sure the pneumatic power supply connect well.

3) Before operation, must check the devices perform well as follow:

- a. Press Rapid Tire Inflation Pedal to the middle position (**Fig 22**, position 1), the inflating head should give air.
- b. Press Rapid Tire Inflation Pedal all the way down (**Fig 22**, position 2), a strong air blast should come from the holes in the four jaws' locking sliders. (**Fig 23**)

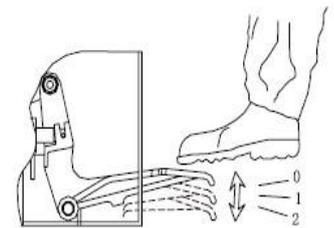


Fig 22

15.1. Wheel rim lock and Tire inflation:

Note: A wheel can explode if:

- 1). the diameter of the rim is not exactly the same at the tyre's.
- 2). the rim or tyre are defective.
- 3). the tyre is inflated to a pressure higher than the maximum recommended by the manufacturer.
- 4). the operator does not observe the requisite safety regulations

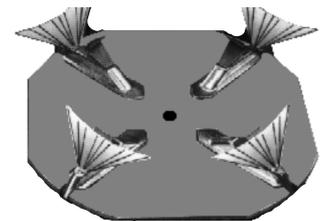


Fig 23

15.2. Inflation for tire with inner tube:

- 1). Remove the valve stem.
- 2). Check to be certain that tyre and rim diameter correspond.
- 3). Check to be certain that rim and beads are sufficiently lubricated.
- 4). Press the pedal down to the middle position to start inflation.
- 5). Release frequently the inflating pedal to check pressure on the manometer. If the air pressure is too high, press the button under the manometer for release the rest air until the correct pressure is reached.

15.3. Inflation for tubeless tire:

Note: When inflating tubeless tire using a strong jet of air, the wheel must be clamped from the inside of the rim.

- 1). Remove the valve stem.
- 2). Check to be certain that tire and rim diameter correspond.
- 3). Check to be certain that rim and beads are sufficiently lubricated.
- 4). Press the pedal down to the middle position to start inflation.
- 5). If the bead of the tyre is not well seated, due to a strong bead, lift tyre manually until the upper bead seals against the rim, then press the pedal all the way down. A strong jet of air will be released through the nozzles in the slides and this will help the bead seal.
- 6). Release the tyre, set the pedal back to the middle position and continue to inflate the tyre to the required pressure.

If the air pressure is too high, press the button under the manometer for release the rest air until the correct pressure is reached.

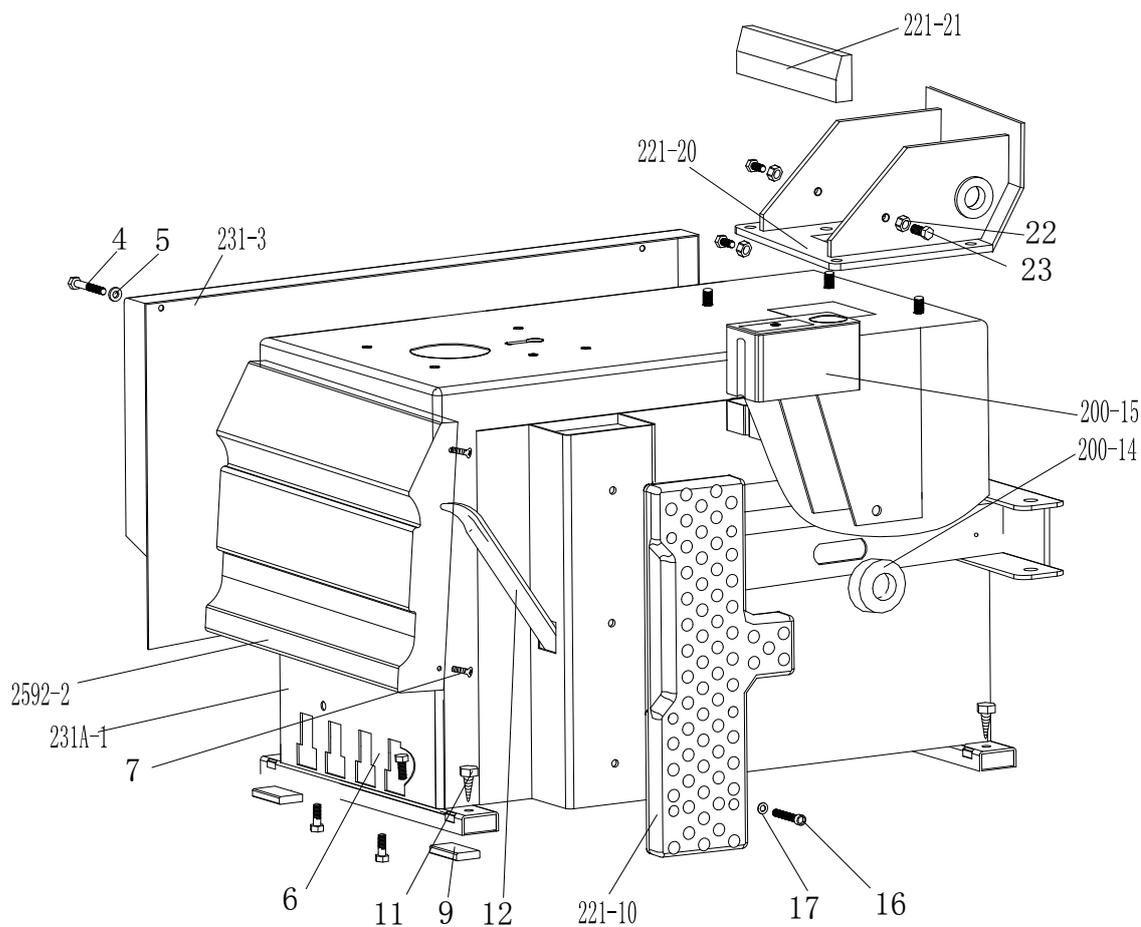
Note:

- 1). **Failure to follow all warnings and instructions may lead to serious personal injury or death to operator or bystander. NEVER exceed 3.5 bar (50 psi) when seating beads or inflating tyres.**
- 2). **If a higher tire inflation pressure is required, remove the wheel from the tyre changer and continue the inflation procedure with the wheel inside a special protection cage. NEVER exceed the maximum inflation pressure given by the tyre manufacturer.**
- 3). **Only specially trained persons are allowed to perform these operations. Do not allow others to operate or be near to the tyre changer**

16. Trouble shooting table:

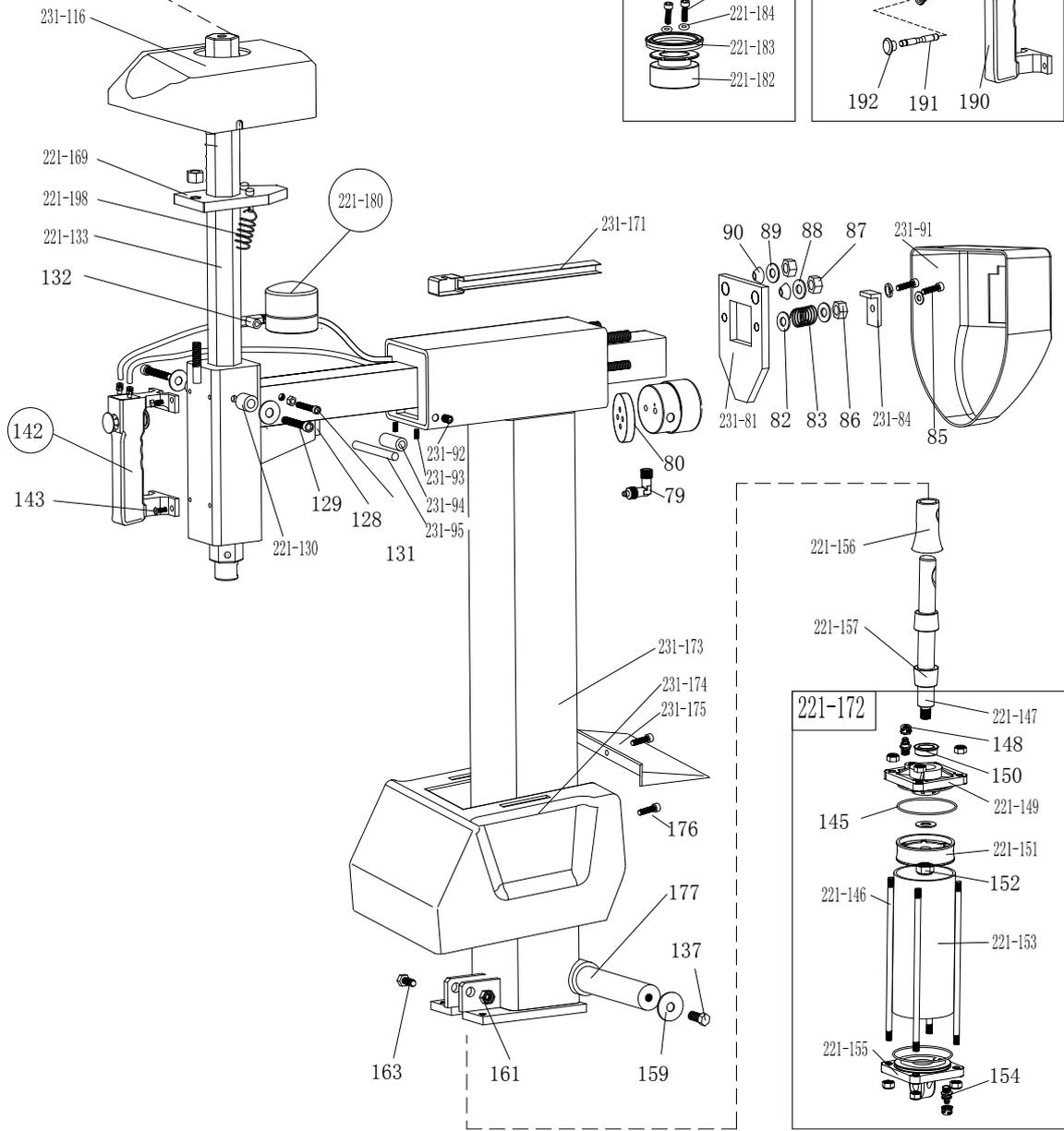
Problem	Reason	Solution
The turntable rotate just in one direction or can't rotate.	Reverse Switch broken	Replace the Reverse Switch
	Belt broken	Replace the belt
	The Motor's malfunction	Check the motor cable or terminal block wire; Replace the motor if it was broken.
Demount or fix the wheel, the turntable 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 difficulty.	Jammed silencer	Clean it or replace it.
	The washer on the Bead Breaker cylinder is broken.	Replace it.

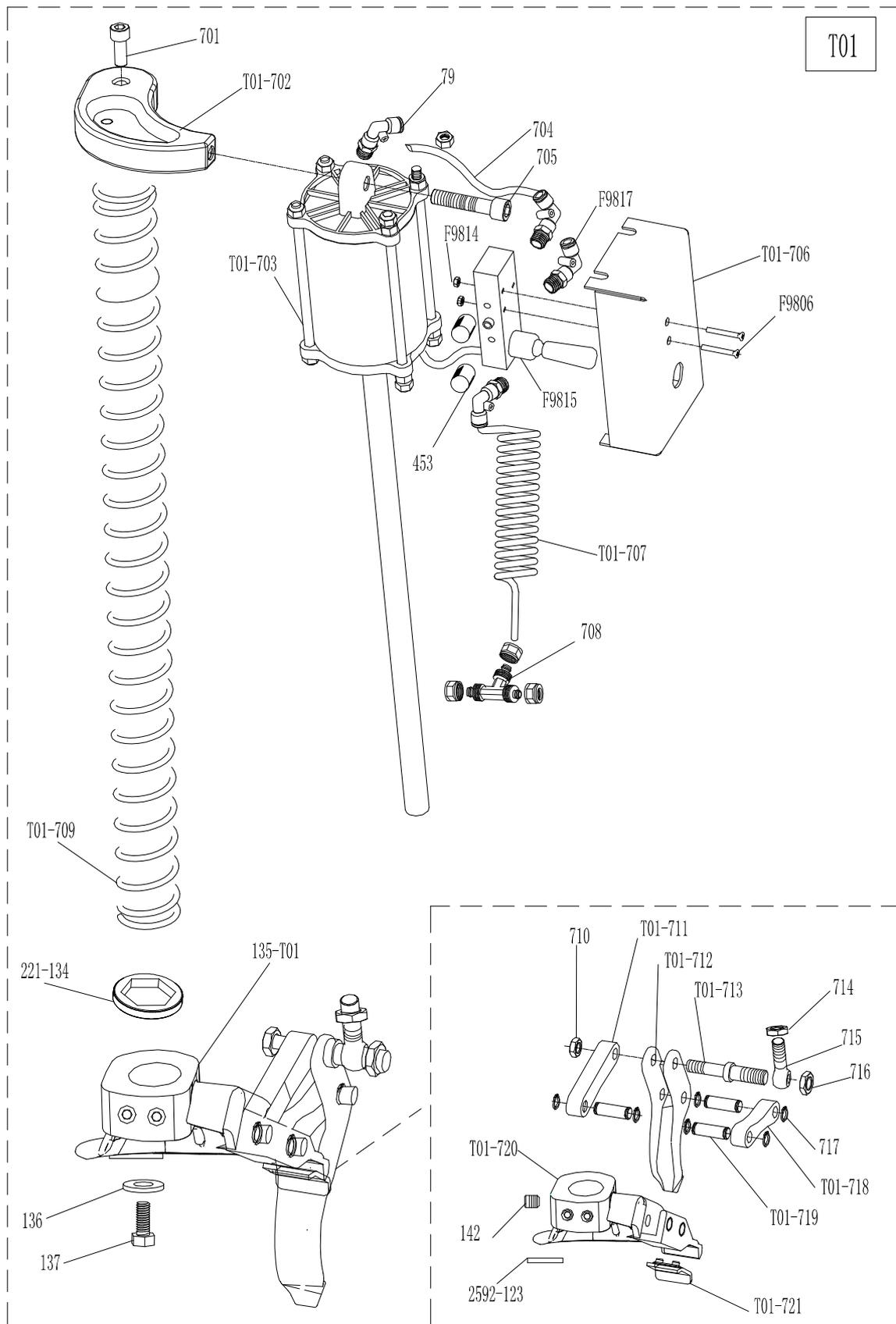
17. Exploded drawing:



231A-1	CX-231-010000-0	Machine body
2592-2	C-2592-080000-0	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-024-050101-1	Hex socket head bolt M5×10
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

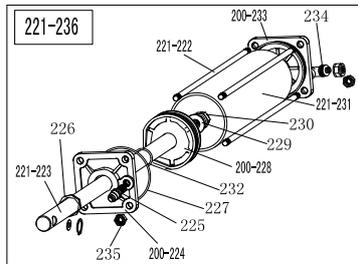
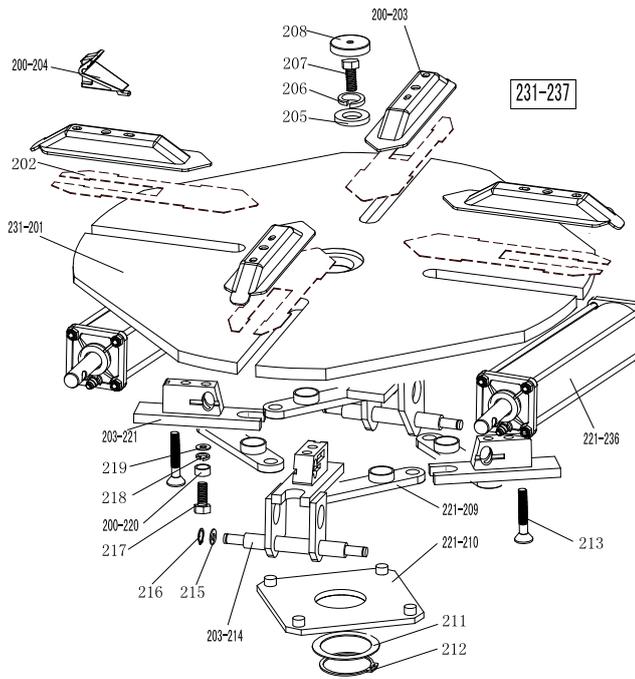
Link to T01, finding on next page



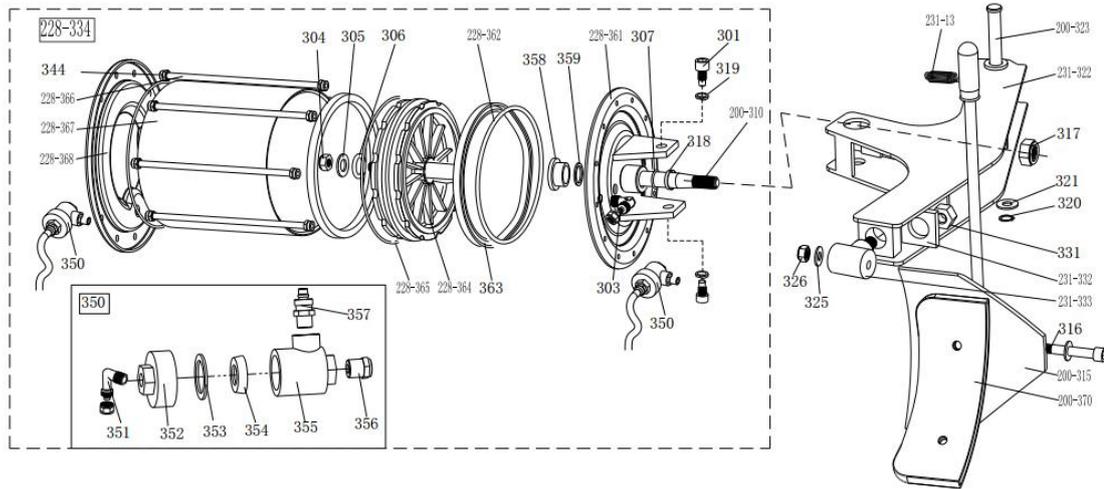


79	S-012-010806-0	Quick union 1/8-Ø6	152	B-004-120071-0	Nut (silver) M12*1.5*7
80	C-221-250600-0	Locking cylinder plate	221-153	C-221-350500-0	Tilting cylinder barrel
81	CX-231-190000-0	Horizontal arm locking plate	154	S-010-010806-0	Straight union 1/8-Ø6
82	B-040-081715-1	Flat washer Φ8*17*1.5	221-155	C-221-350300-0	Titling cylinder cover with handle
83	C-221-410000-0	Horizontal arm locking spring	221-156	CX-221-351000-0	Tilting cylinder piston rod cover
231-84	CX-231-240000-0	Horizontal arm block	221-157	C-221-350700-0	Titling cylinder rubber sheath 1
85	B-014-080201-0	Outer hex bolt M8*20	159	B-040-104030-1	Flat washer 10*40*3
86	B-001-080001-0	Self-locking nut M8	161	B-001-120001-0	Self-locking nut M12
87	B-001-120001-0	Self-locking nut M12	163	B-014-120651-0	Outer hex bolt M12*65
88	B-040-122520-1	Flat washer Φ 12*25*2	221-169	CX-221-220000-0	Hex locking board 221
89	B-040-122520-1	Flat washer Φ 12*25*2	231-171	C-231-790000-0	Hose guide
90	C-221-230000-0	Locking spacer	221-172	CW-105-021102-0	Complete titling cylinder
231-91	C-231-780000-0	Horizontal arm protection back cover	231-173	CX-231-250000-A	Column
231-92	B-007-100161-0	Hex socket head bolt M10*16	231-175	C-231-460000-0	Titling Column back cover
231-93	B-007-080161-0	Hex socket head bolt M8*16	231-174	C-231-450000-0	Column protection cover
231-94	CX-231-251300-0	Column side pulley	176	B-024-050161-1	Cross head screw 5*16
231-95	C-231-251400-0	Column side pulley pin	177	CX-221-260000-0	Column shaft
231-116	C-231-480000-0	Horizontal arm protection front cover	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-005-050065-0	V seal Ø60*50*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
142	CW-119-021100-0	Complete Pneumatic locking switch	190	C-221-210100-0	Pneumatic handle switch plate
143	B-010-060161-0	Hex socket head bolt M6*16	191	C-221-210200-0	Pneumatic handle valve rod
145	S-000-068353-0	O seal Ø68.26*3.53	192	C-221-210500-0	Pneumatic valve rod cap
221-146	C-221-350900-0	Tilting cylinder threaded	193	C-221-210300-0	Pneumatic handle cover
221-147	C-221-350200-0	Tilting cylinder piston rod	194	C-221-210400-0	Pneumatic handle spacer
148	B-001-080001-0	Self-locking nut M8	195	S-000-007265-0	O seal 7.5*2.65
221-149	C-221-350100-0	Tilting cylinder cover without handle	196	B-055-080001-0	Snap ring Ø8
150	S-005-020075-0	V seal Ø20*28*7.5	197	S-010-010806-0	Stright union
221-151	C-221-550000-0	Tilting cylinder piston	221-198	C-221-400000-0	Hex locking board spring

T01	CW-113-0T0000-0	Complete automatic mount/demount head (T-shape)
701	B-010-100301-0	Hex round column head screw M10*30
T01-702	C-T01-110000-0	Vertical arm cap
T01-703	C-T01-090000-0	Automatic mount/demount head (T-shape) cylinder
79	S-012-010806-0	Quick union 1/8-Ø6
704	S-035-060040-1	Air hose φ6
705	B-010-120451-0	Hex round column head screw M12*45
F9817	S-112-010406-0	Quick union 1/4-Ø6
T01-706	C-T01-080000-0	Control valve protection cover T0108
F9806	B-017-040301-0	Cross head screw M4*30
F9815	S-030-010818-0	Handle valve
453	S-023-010801-0	Muffler(metal)1/8
F9814	B-004-040001-0	Hex nut M4
T01-707	C-T01-120000-0	Telescopic spiral hose φ6
708	S-015-000006-6	T-union(small) 1/8-φ6
T01-709	C-T01-100000-0	Vertical arm spring T0110
T01-710	B-001-100001-0	Hex locking nut M10
T01-711	C-T01-030000-0	Connecting rod 1
T01-712	C-T01-020000-0	T01-active hook
T01-713	C-T01-060000-0	Connecting rod pin
T01-714	B-004-120071-1	Thin Nut M12
T01-715	S-040-000012-0	Joint bearing GB/T9161-2001
T01-716	B-001-120001-0	Locking nut M12
T01-717	B-055-100001-0	Snap ring for shaft φ10
T01-718	C-T01-040000-0	Connecting rod 2
T01-719	C-T01-050000-0	Pin
T01-720	C-T01-010000-0	T01-active hook base
T01-721	C-T01-070000-0	T01-protector
142	B-007-120161-0	Hex socket head bolt M10*16
2592-123	C-2592-150300-0	T01-flat protector
221-134	C-228-520000-0	Vertical arm washer
135-T01		Automatic mount/demount head (T-shape)-T01

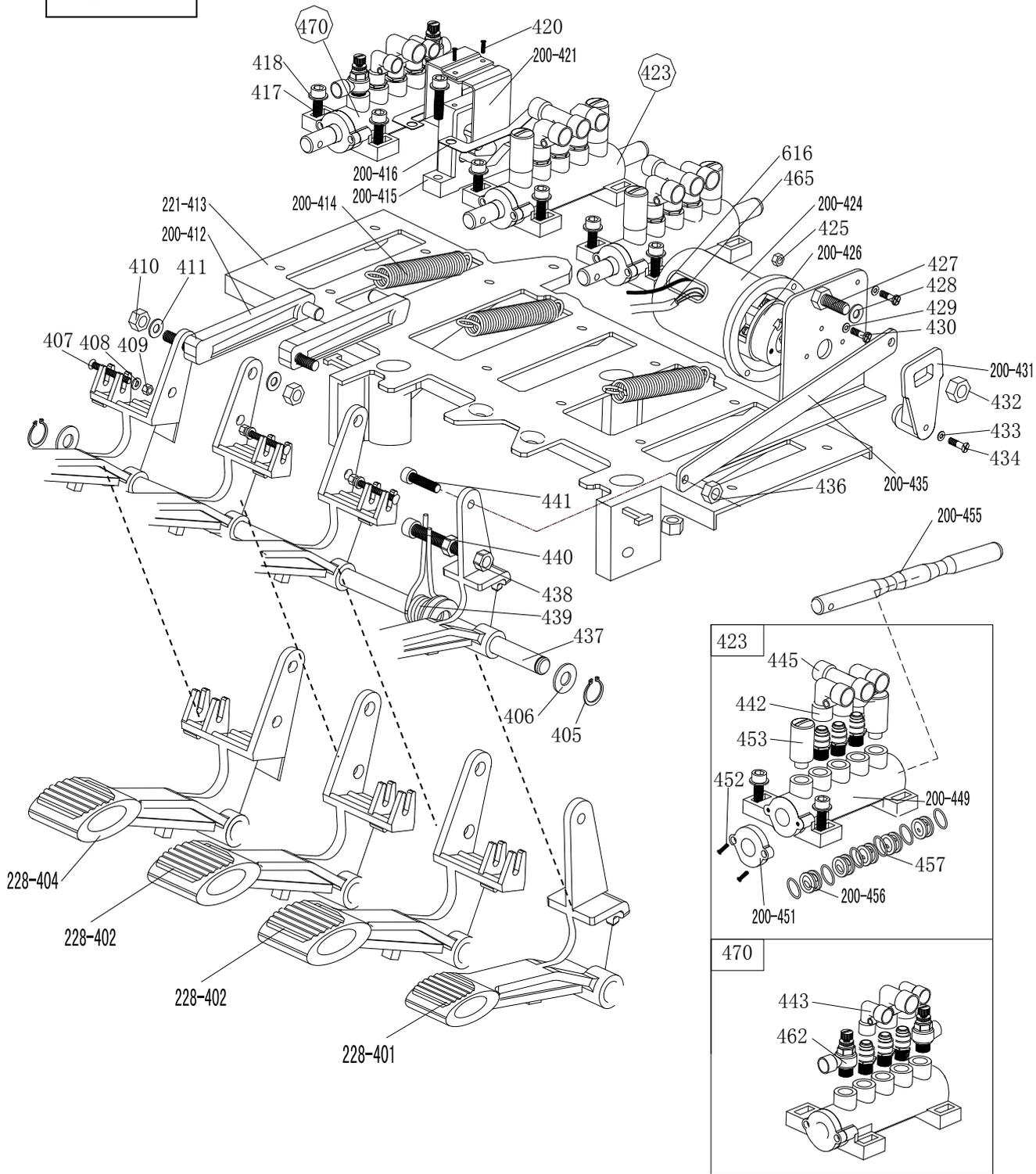


231-201	CX-231-130000-0	Turntable 650
202	CX-221-120300-0	Jaw sliding plate(optional)
200-203	CX-200-120000-0	Jaw cap assembly
200-204	C-200-570000-0	Jaw
205	CX-200-140000-0	Big washer
206	B-050-160000-0	Spring washer Ø16
207	B-014-160401-0	Outer hex bolt M16×40x1.5
208	C-200-440000-0	Turntable cap
221-209	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	Quick 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



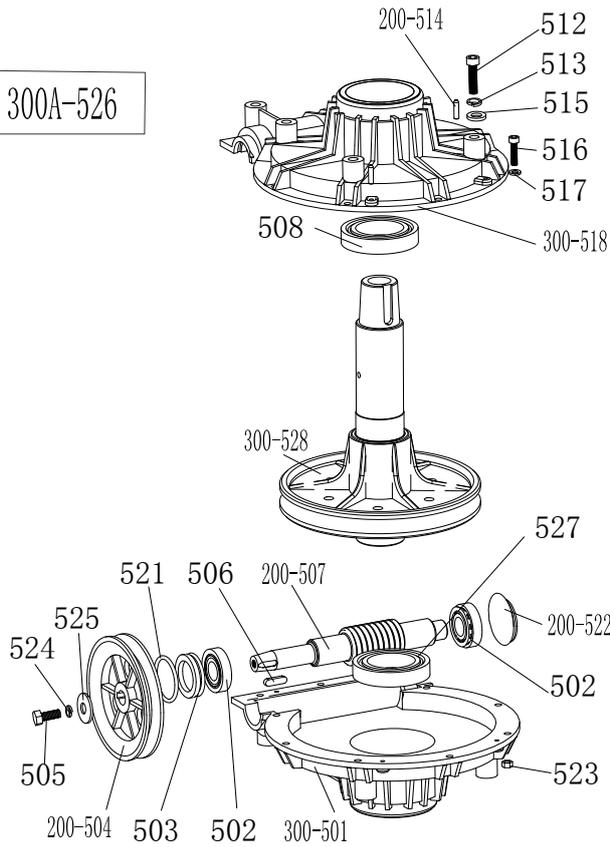
231-13	C-231-360000-0	Bead breaker arm spring	231-332	CX-231-030900-0	Enlarge bead breaker arm rotating washer
301	B-010-140301-0	Hex socket head boltM14×30	231-333	CX-231-030800-0	Enlarge bead breaker arm rotating shaft
303	S-018-010408-0	Union (90°) 1/4-Ø8	228-334		Complete bead breaker cylinder D200
304	B-004-160001-1	Nut M16*1.5	344	B-001-080001-0	Self-locking nut
305	B-040-162820-1	Flat washer Ø16*28*2	350	CW-112-209800-0	Bead breaker cylinder exhaust valve
306	S-000-016265-0	O-seal Ø 16*2.65	351	S-012-010808-0	Union 1/8-Ø8
307	S-000-019262-0	O- seal Ø20X2.65	352	C-098-600200-0	Bead breaker cylinder exhaust valve cover
200-310	C-200-050100-0	Bead breaker cylinder piston rod	353	C-098-600400-0	Seal washer
200-315	CX-200-070000-0	Bead breaker shovel assembly	354	C-098-600300-0	Bidirectional seal
316	B-010-120901-0	Hex socket head bolt M12×90	355	C-098-600100-0	Bead breaker cylinder exhaust valve barrel
317	B-004-160001-1	Self-locking nut M16*1.5	356	S-023-010401-6	Muffler
318	U-006-000001-1	Guide belt	357	S-010-010408-0	Straight union 1/4- Ø8
319	B-050-140000-0	Spring washer Ø14	358	CZ-298-050900-0	Nylon sleeve
320	B-055-160001-0	Snap ring Ø16	359	S-005-0200075-0	V-steal 20*28*7.5
321		Flat washer	228-361	CX-298-050500-0	Bead breaker cylinder cover assembly
231-322	CX-231-030000-0	Enlarge bead breaker arm 231	228-362	S-000-195265-0	O-seal Ø198*3.1
200-323	CX-200-040000-0	Bead breaker pin	363	S-005-200184-0	Y-seal D200*184*12
325	B-040-122520-1	Flat washer Ø12*24*2	228-364	C-298-050200-0	Bead breaker cylinder piston D200
326	B-001-120001-0	Self-locking M12	228-365	S-000-180500-0	O-seal Ø180*5
331	B-001-160001-0	Self-locking nut M16*1.75	228-366	C-298-051000-0	Threaded connection rod
			228-367	C-298-050300-0	Bead breaker cylinder barrel D200
			228-368	C-298-051100-0	Bead breaker cylinder rear cover
			200-370	C-200-070600-0	Bead breaker shovel protection cover(optional)

231-480

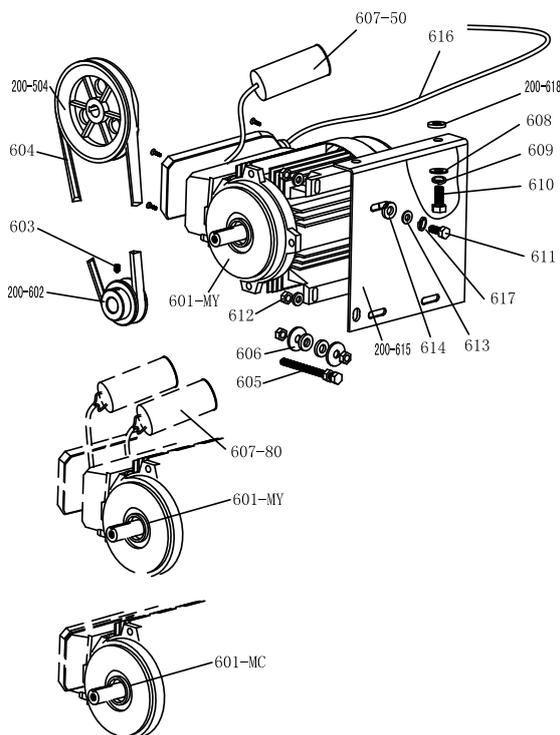


228-401	C-228-060400-0	Reverse switch pedal	430	B-024-040161-0	Cross head screw M4*16
228-402	C-228-060300-0	5-way valve pedal(right)	200-431	C-200-530000-0	Reverse switch handle
228-404	C-228-060200-0	5-way valve pedal(left)	432	B-001-060001-0	Self-locking nut M6
405	B-055-120001-0	Snap ring Ø12	433	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 suport 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			

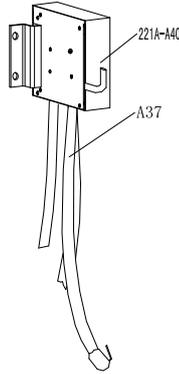
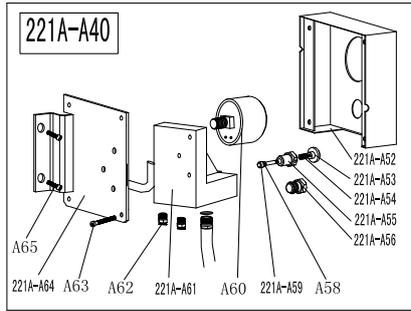
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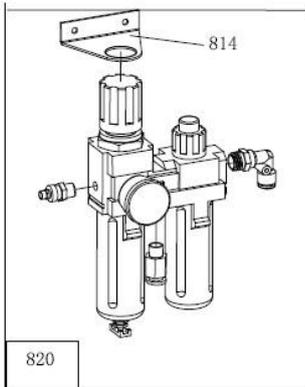
200-501	C-300-320302-0	Gear box lower cover
502	S-040-030204-0	Bearing 30204
503	S-005-020080-1	Gear box seal φ20*35*8
200-504	C-200-320500-0	Gear Belt pulley
505	B-014-080251-0	Outer hex bolt M8×25
506	B-065-006020-0	Key washer 6×20
200-507	C-200-320400-0	Worm rod
508	S-040-006010-0	Bearing 6010
512	B-014-100551-0	Outer hex bolt M10×55
513	B-050-100000-0	Spring washer Ø10
200-514	B-060-006020-0	Pin 6X20
515	B-040-102020-1	Flat washer Ø10*20*2
516	B-010-060201-0	Hex socket head bolt M6×20
517	B-040-061412-1	Flat washer Ø 6*14*1.2
200-518	C-300-320301-0	Gear box upper cover
521	S-000-027310-0	O-seal Ø 27.8*3.1
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 Ø 8
525	B-040-083030-1	Flat washer Ø 8*30*3
300A-526	CW-107-030001-A	Complete gear box
527	S-040-006028-0	Bearing 6208
300A-528	C-300-320100-0	Worm gear



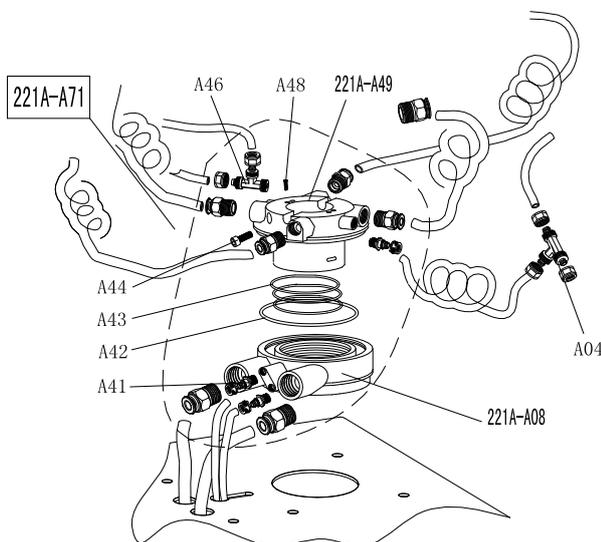
200-504	C-200-320500-0	Gear Belt pulley
601-MC	S-050-220110-5	Motor 220V/50HZ
601-MY	S-050-230075-0	Motor 220v
200-602	CX-200-330000-0	Motor Belt pulley
603	B-007-080121-0	Hex socket head bolt M8×12
604	S-042-000686-0	Tyre changer belt A-28
605	B-014-080651-0	Outer hex bolt M8X65
606	B-040-083030-1	Flat washer Ø8X30X3
607-80	S-063-008000-0	Capacitor 80µf,110V
607-50	S-063-005000-0	Capacitor 50µf,220V
608	B-040-102020-1	Flat washer Ø10X20X2
609	B-050-100000-0	Spring washer Ø10
610	B-014-100251-0	Outer hex bolt M10X25
611	B-014-080351-0	Outer hex bolt M8X35
612	B-004-080001-0	Nut M8
613	B-040-082220-1	Flat washer φ8X22X2
614	C-200-560000-0	Motor rubber washer
200-615	CX-200-340000-2	Motor support
616	CZ-000-205150-0	Motor cable 5×1.0
617	B-050-080000-0	Spring washer φ8
200-618	C-200-560000-0	Motor rubber buffer



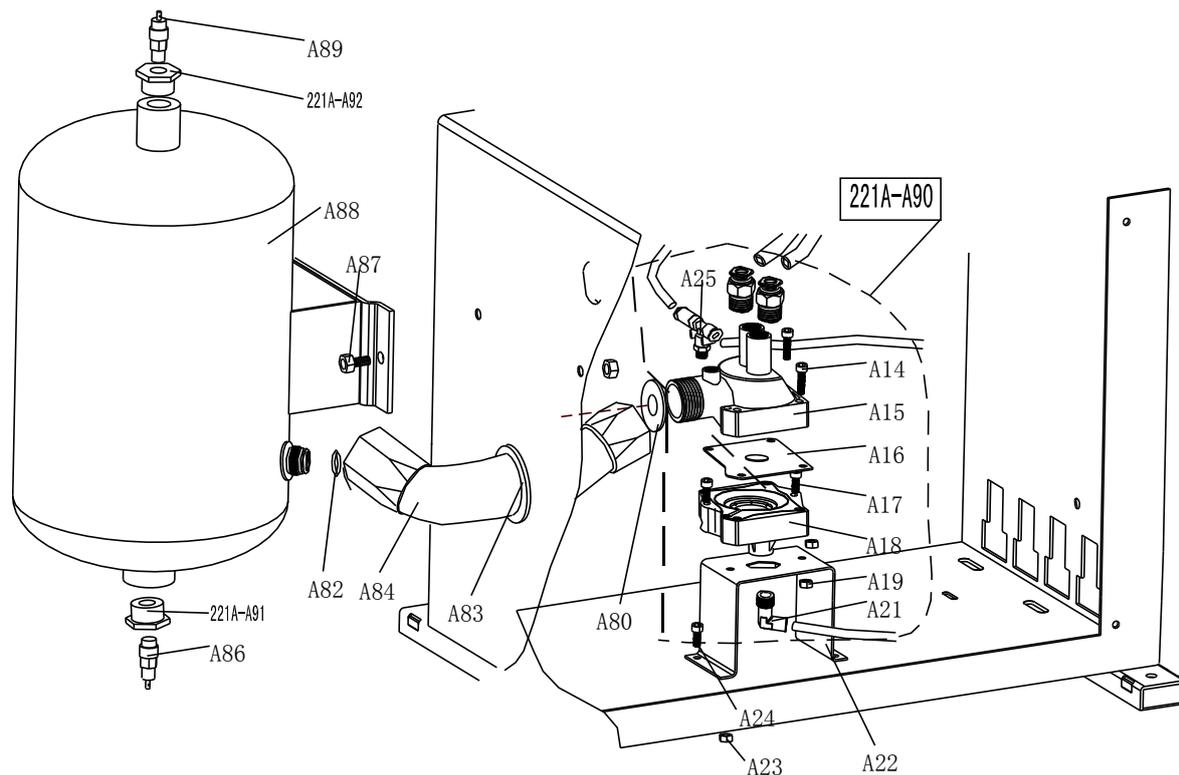
221A-A52	C-221-700000-A	Pressure gauge box Φ60
221A-A53	C-221-690300-A	Button
221A-A54	C-221-690400-A	Button spring
221A-A55	C-221-690100-A	Button valve
221A-A56	B-007-180081-R	Hex socket head bolt 1/8*8
A58	S-000-004200-0	O-seal 4*2
221A-A59	C-221-690200-A	Button rod
A60	S-038-000020-0	Pressure gauge 10kg
221A-A61	C-221-680000-A	Seat with holes
A62	S-010-010808-0	Quick straight union 1/8-Ø8
A63	B-017-040301-0	cross head screw M4*30
221A-A64	CX-221-710000-A	Pressure gauge box support
A65	B-010-060161-0	Hex socket head bolt M6*16
A37	S-035-014150-0	Rubber hose 1.5 with clip
A38		Air hose 12*8
A39		Air hose 12*8
221A-A40	CW-118-022100-0	Complete pressure gauge box



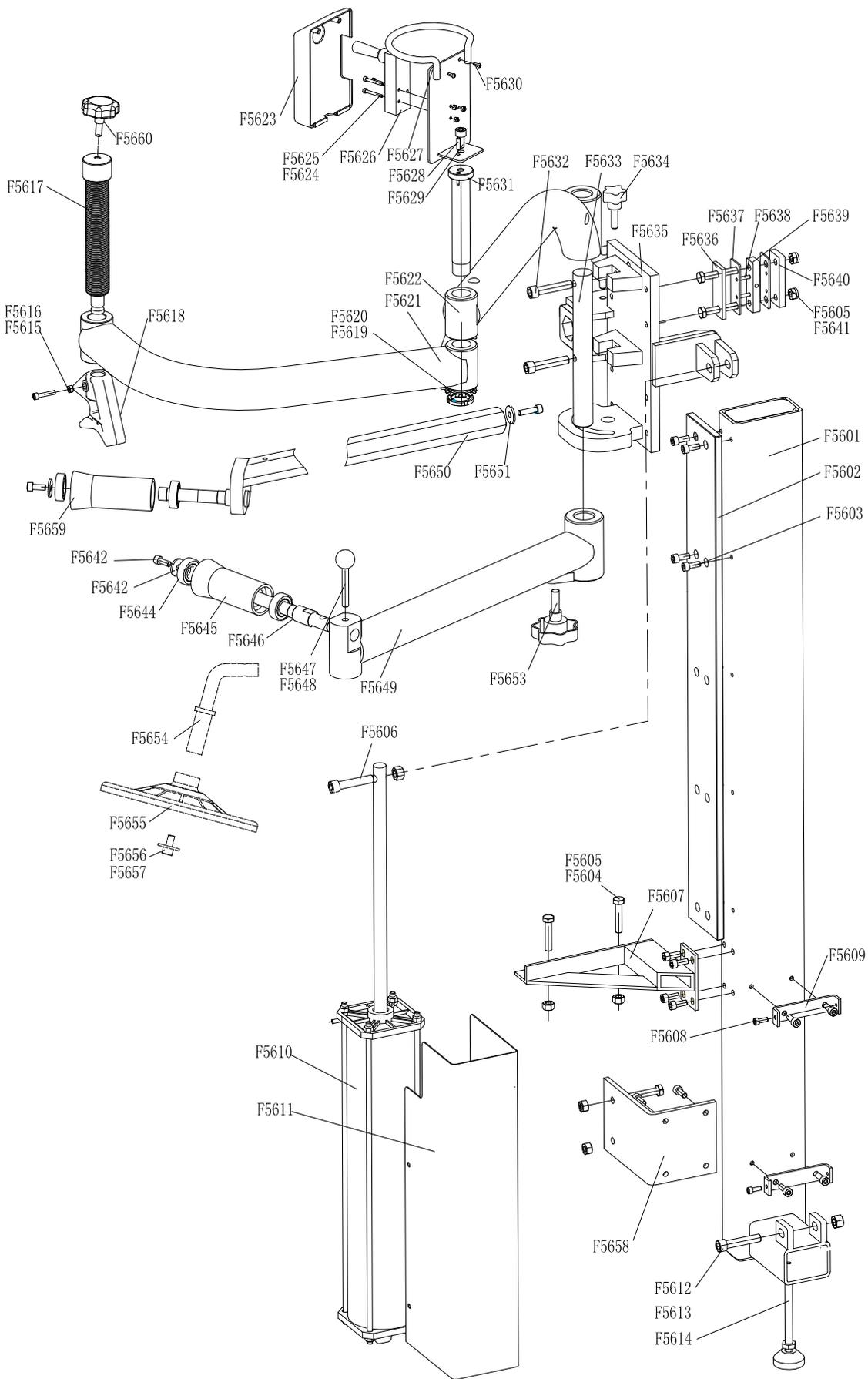
814	C-200-011200-0	Oil fog maker surport
820	CW-114-035000-0	Complete oil fog maker 3500



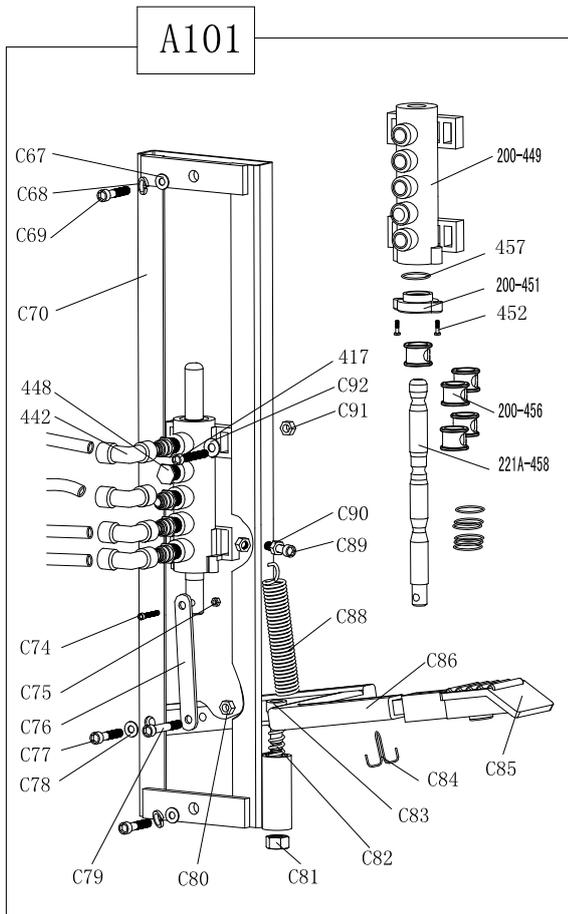
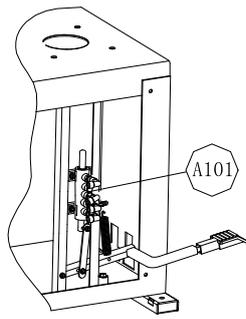
221A-A08	CX-221-430100-A	Rotating valve casing (A)
A04	S-015-000008-3	T-union 3* Ø 8
A41	S-011-010808-0	Straight union 1/8-Ø8
A42	S-000-089200-0	O-seal Ø89*2
A43	S-000-062280-2	O-seal Ø62*2.8
A44	B-010-060201-0	Hex socket head bolt M6X20
A46	S-015-010808-2	T-union 1/8-2*Ø8
A48	B-007-040061-0	Hex socket head bolt M4*6
221A-A49	CX-221-430200-A	Rotating valve mandrel (A)
221A-A71	CW-106-022102-A	Complete Rotating valve (A)



A14	B-010-060301-0	Hex socket head bolt M6*30
A15	C-221-600500-A	Exhaust valve barrel
A16	C-221-600700-A	Exhaust valve rubber washer
A17	B-010-060301-0	Hex socket head bolt M6*30
A18	C-221-600600-A	Exhaust valve cover
A19	B-001-060001-0	Self-locking nut M6
A21	S-012-010408-0	Quick union 1/4-Ø8
A22	CX-221-600800-A	Exhaust valve support
A23	B-001-060001-0	Self-locking nut M6
A24	B-010-060161-0	Hex socket head bolt M6*16
A25	S-030-010450-0	One way valve (EPCVB 8-01)1/8-2*Ø8
A80	C-221-601000-A	Rubber washer Ø18*34*2
A82	S-000-01625-0	O-seal Ø16*2.65
A83	C-221-720000-A	Hose protector
A84	C-221-601100-A	Metal hose
A86	S-030-010400-0	Water discharge valve
A87	B-014-100251-0	Outer hex bolt M10*25
A88	CX-221-610000-A	Air-tank assembly
A89	S-030-030800-0	Safety valve
221A-A90	CW-112-022101-0	Complete exhaust valve
221A-A91	CX-221-61050-A	Air-tank down union
221A-A92	CX-221-610600-A	Air-tank up union



F5601	CX056-010000-0	Column assembly	F5631	CX-056-080000-0	Connecting pin
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	F5659	CZ-056-180000-0	Tire pressing roller 2
F5629	B-010-100251-0	Hex socket head screw M10*25	F5660	C-238-201501-0	Adjustable bolt
F5630	B-024-040161-0	Cross head screw M4*16			



C67	B-040-081715-1	Flat washer Ø8X17X1.2
C68	B-050-080000-0	Spring washer Ø8
C69	B-010-080251-0	Hex socket head bolt M8*25
C70	CX-221-620000-A	5th IT inflating pedal suport assembly
448	B-007-180081-R	Hex socket head bolt 1/8*8
442	S-012-010808-0	Quick union 1/8-Ø8
C74	B-010-050201-0	Hex socket head bolt M5*20
C75	B-001-050001-0	Self-locking nut M5
C76	CX-221-660000-A	Inflating 5-way valve rod
C77	B-010-060251-0	Hex socket head bolt M6*25
C78	B-040-061210-1	Flat washer Ø6*12*1
C79	B-010-060251-0	Hex socket head bolt M6*25
C80	B-004-060001-1	Nut(black) M6
C81	B-001-100001-0	Self-locking nut M10
C82	C-221-670000-A	Limit spring
C83	CX-221-620400-A	Positioning bolt M10X55
C84	B-070-040040-0	Split pin 4X40
C85	C-221-640000-A	Pedal rubber
C86	CX-221-630000-A	Inflating pedal rod
C88	C-200-380000-0	Pedal Spring
C89	B-010-060251-0	Hex socket head bolt M6*25
C90	B-004-060001-1	Nuta(silver) M6
417	B-010-060201-0	Hex socket head bolt M6*20
C91	B-001-060001-0	Self-locking nut M6
C92	B-040-061210-1	Flat washer Ø6X12X1
200-449	C-200-060901-0	5-way valve barrel
200-451	C-200-061100-0	5-way valve cover
452	B-024-290121-0	cross head screw ST2.9*16
200-456	C-200-061000-0	5-way valve rod spacer
457	S-000-012400-0	O-seal 12X20X4
221A-458	CX-221-650000-A	5-way valve rod A
A101	CW-109-021110-A	Complete 5-way valve(inflating),without valve rod

