

TYRE CHANGER

INSTRUCTION & MAINTENANCE MANUAL

We follow the way that wheel moves!



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

1. Introduction:

The full-automatic tyre changer is especially designed for demounting / mounting tyres from wheel rims with providing good solutions for all kinds of special structured tyres. This type of machine can demount/mount bigger and heavier tyres, dimension of tire rims from 260mm to 760mm. Fixing the rims with center flange which provides good solutions for different structure tyres and does less harm for tyres with high adaption, is more efficient and different with the traditional turntable. With the tire lifting device rise-fall the tires automatically this can save labor force of manual handling. The center flange positions rims with the self-locking safety device. The multifunctional help arms operate with automatic special structured mount/demount head.

2. Safety Regulations:

This device cannot be used for other purpose. One must have read this instruction manual carefully and understand it completely before operation. The company shall not be liable for any damage or injury caused by failure to comply with the instruction manual or use it for other purpose.

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.

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.

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). The company shall not be liable for any change of the device without permission. (Especially the electrical parts)

3. Technical data:

Rim Dimension	10"-30"
Max. Wheel Width	16 "
Max. Wheel Diameter	1250mm (45 ")
Working Pressure	8-10bar
Hydraulic Pump Pressure	80-120bar
Power Supply	220V (1ph)/ 380V (3ph)
Motor Power	1.1 kW
Max. Rotating Torque (Turntable)	1078 Nm(110Kg.m)
Overall Dimension	1130*1500*1900mm
Noise Level	<75 dB
Net Weight	500kg

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 is shown as **Fig 1**.

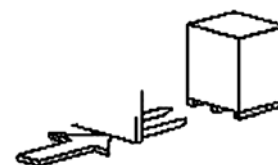


Fig 1

5. Unpacking & Inspection::

Pull out the nail which is nailed on the plate with tip jaw, unpack the carton and plastic cover. Check to make sure all parts shown on the spare parts list are included. If any parts are missing or broken, please contact the manufacturer or dealer ASAP.

6. Workplace requirements:

Choose workplace in compliance with safety regulations. The ground should be flat without rugged situation. The needed work space of the machine is 2.9x2.1m and the min. height is 2.4m. 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 0.5m clear space from each wall shown as **Fig 2**. If installing it outdoor, it must be protected by roof against rain and sunshine.

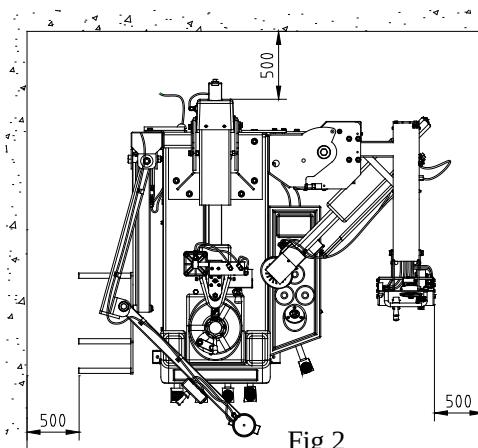


Fig 2

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

Connect the gas and the electrical system. Connect the compressed air connector which is on the right side of the machine 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.

7. Electric and Pneumatic connections:

Caution: 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 back 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. Set leakage current at 30mA.

8. Adjusting operation:

The effect picture of the machine is shown as Fig 3.

Notice: Demount the part marked D when mounting/demounting the thicker tyres.

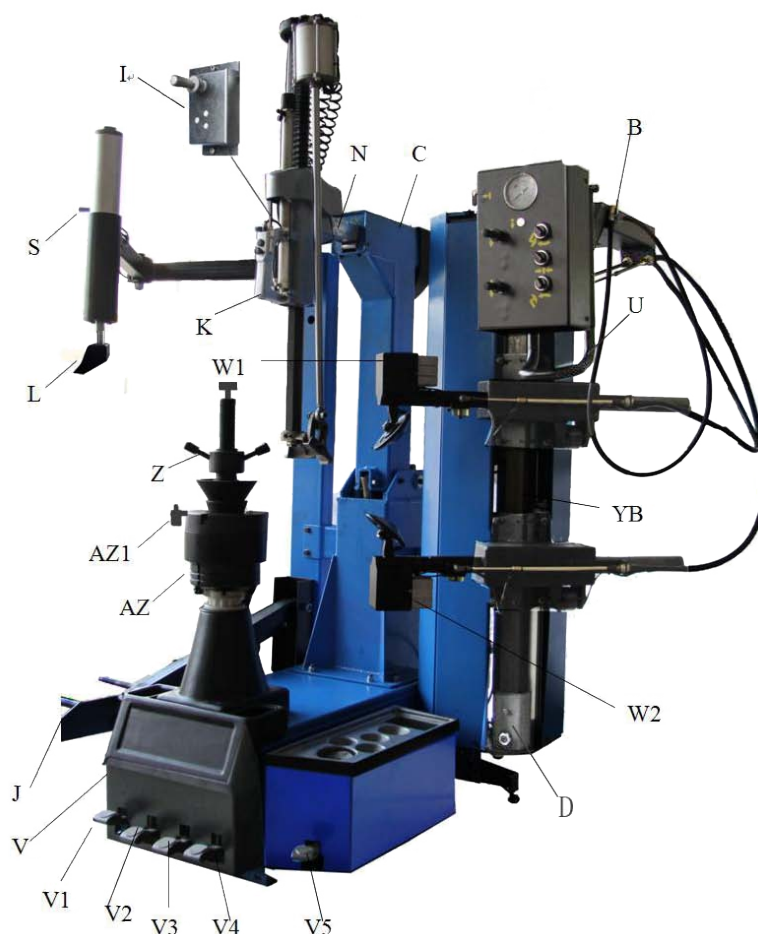


Fig 3

V1: Tilting pedal	V2: Center shaft clamping pedal	V3: Tyre lifting pedal
V4: Rotating pedal	V5: Inflation pedal	U: Pneumatic control box
I: Pneumatic control valve of demount hook	K: Locking handle	S: Control valve
AZ: Installation base	Z: Center shaft and cone sleeve	W1: Tyre pressing roller/rod (up)
W2: Tyre pressing roller/rod (down)	D: Located block	

Caution: Keep hands and body far away from the rotate parts of the equipment during operation. Wear tight sleeve clothing and don't wear necklace, bracelet and loose clothing.

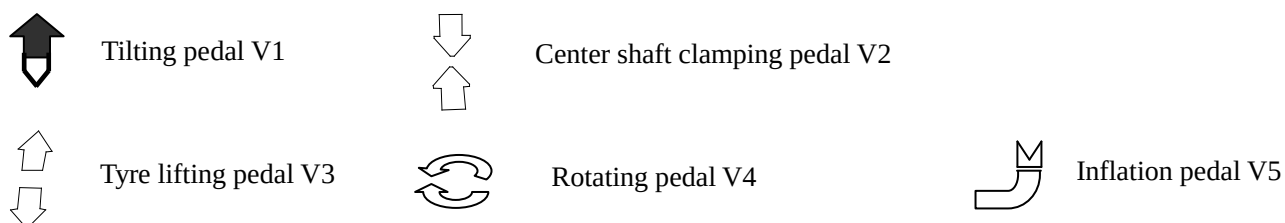


Fig 4

Caution: Before any operations, don't wear loose clothing and wear protective hat, gloves, and skid-proof shoes. Ensure to exhaust the air in the tyre completely, and remove all the balancing weights from the rim.

Operation of pedal (V):

Pedal marks are shown as **Fig 4**

Tread downward the rotation pedal (V4), Installation base (AZ) rotates, Lift up the turntable rotation pedal (V4), Installation base (AZ) anticlockwise rotates.

Tread tyre lifting pedal (V3), Tyre lifting device rises, Tread again, Tyre lifting device move to the original position.

Tread center shaft clamping pedal (V2), The center shaft (Z) is locked tightly, Tread again, The center shaft (Z) is in free state.

Tread the tilting pedal (V1), The column falls backwards, Tread again, The column move to the original position.

Tread the inflation pedal (V5), The inflation hose (B) sprays high pressure gas, Release the pedal to stop inflation, The operation of locking handle(K) is shown as Fig 5

The position K1 uses to unlock the hexagonal rod and sliding arm; The position K2 of hexagonal rod (M) rises;

The position K3 locks the hexagonal rod (M) and sliding arm (N)

The position K4 of hexagonal rod (M) falls.

Operation of tyre changer hook cylinder control valve (I):

Swing the handle of tyre changer hook (F) upward to life it up,

Swing the handle of tyre changer hook (F) downward to make it down.

Operation of the push valve (S):

Swing the handle of cylinder rod (L) upward to retract, Swing the handle of cylinder rod (L) downward to extend.

Operation of the pneumatic control box (U) is shown as Fig 6:

Press U1 to exhaust the gas of tyres, Release U1 to stop exhausting gas.

Wring U3 ,the tyre pressing rod W1/W2 lock.

Wring U2 and U4 to swing the tyre pressing roller W1/W2 after wringing U3.

Wring U2 and U4 back to swing the tyre pressing roller in the opposite direction.

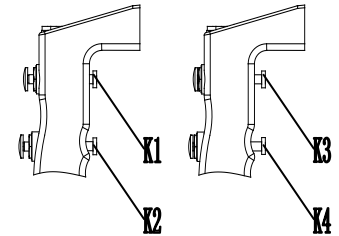


Fig 5

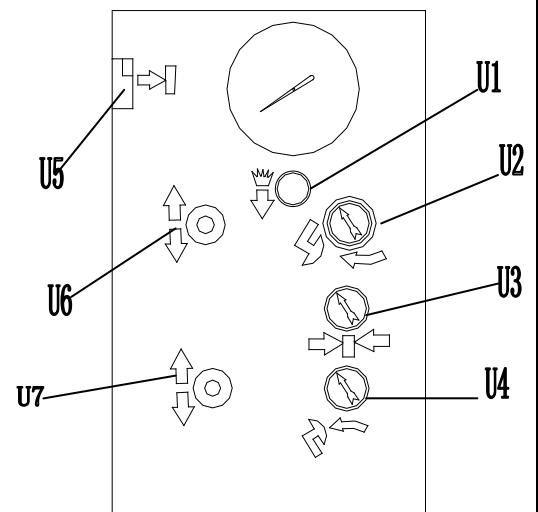


Fig 6

Pull the pneumatic box (U) to retract/extend the tyre pressing rod W1/W2.

When press U5, the right arm (YB) can swing from side to side. Release U5, it swings to the work position and be locked automatically.

Press U6 upward /downward to lift /lower the tyre pressing rod (W1)

Press U6 upward /downward to lift /lower the tyre pressing rod (W2)

Remark: The position of rotary knob shown as picture is acquiescent.

8.1 Demounting the tyres

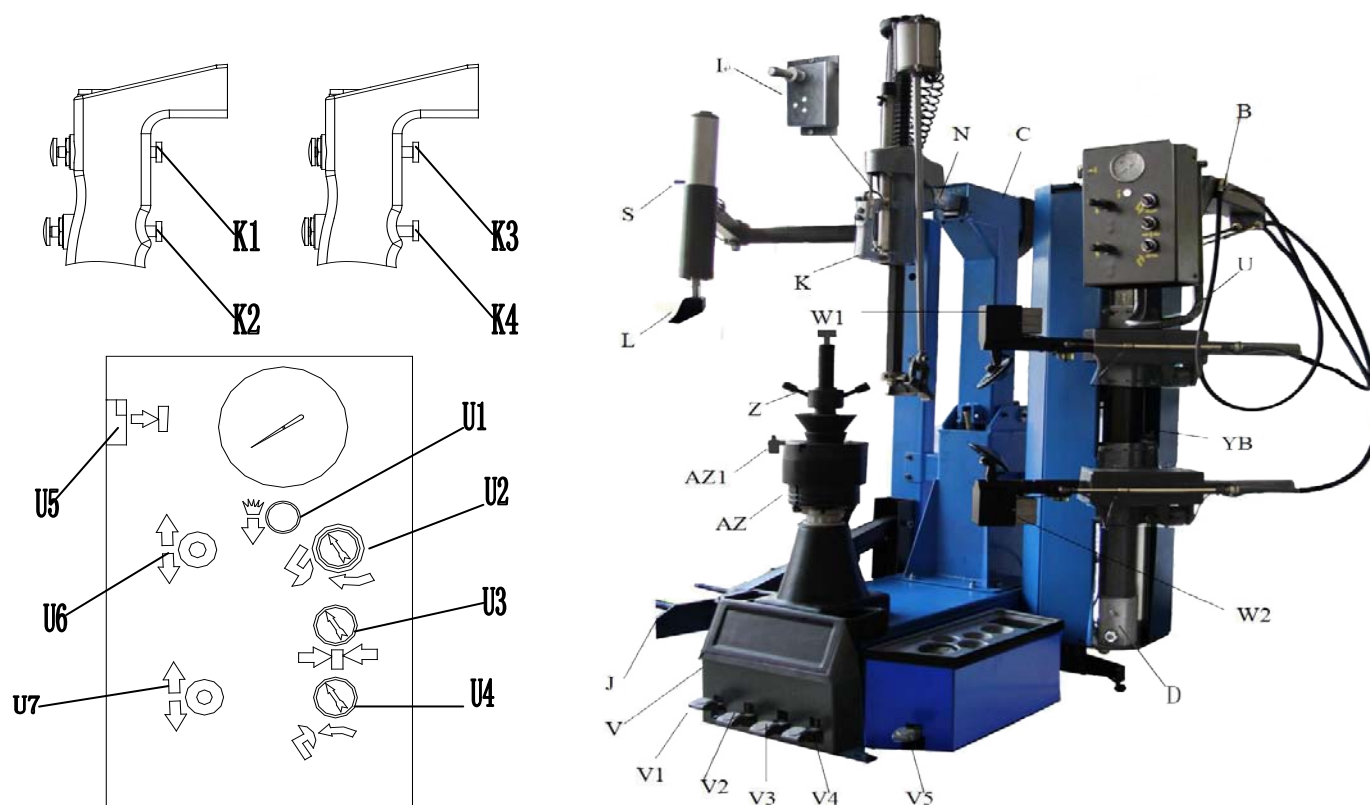
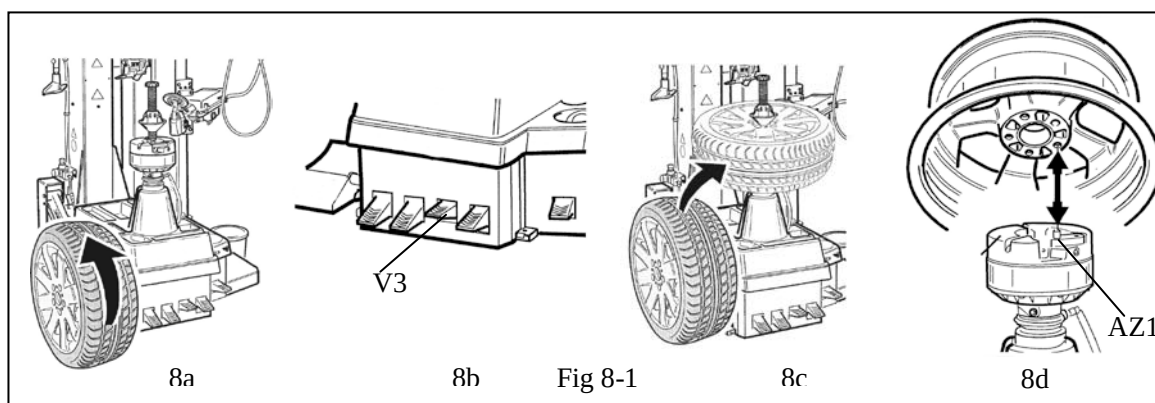


Fig7

1. Install and fix tyre:

- 1) Exhaust the air in the tyre completely. Take down the valve cap and put the tyre on the tyre lifting support (Fig 8a). Tread the tyre lifting pedal V3 (Fig 8b) while the tyre lifting support J lift the tyre to the top, and lay the tyre flatly towards the direction of the installation base (Fig 8c)
- 2) Adjust the auxiliary rolling stopper pin (AZ1) of the installation to aim at the rim to fix the hole (Fig 8d)
- 3) Use the center shaft and taper sleeve (Z) to align with the center, hold the handle of half nuts (Z1) and press down the sleeve of half nut by thumb to adjust the distance from the taper sleeve upper surface in 5-10mm (Fig 8e)
- 4) Tread the center shaft clamping pedal (V2), the center shaft falls and fixes the tyre (Fig 8d)



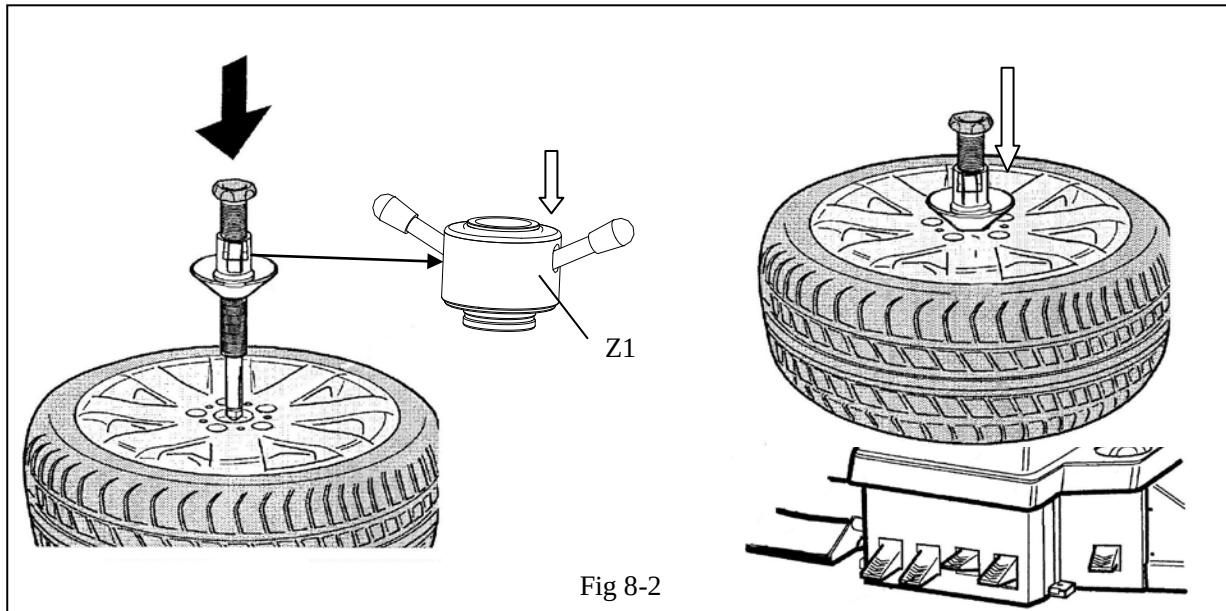


Fig 8-2

2. Locating the tyre pressing roller:

- Deep press the button U5, release the right arm (YB), pull the handle of the control box (YB1) to turn the right arm towards the rim direction and release the button U5 to lock the right arm (YB) when it reaches at a given position (**Fig 9a**)
- Pull the handle U6 downward, the tyre pressing roller W1 falls to the surface of the upper tyre bead. Keep the button U3 (pneumatic control box) in the original state (the tyre pressing rod is not locked) and pull the handle (YB1) of the control box to adjust the extended length that keep the distance in 2-3mm between the edge of tyre pressing roller and rim. Then wring the button U3 to lock the tyre pressing rod W1 in locked position (**Fig 9b**)

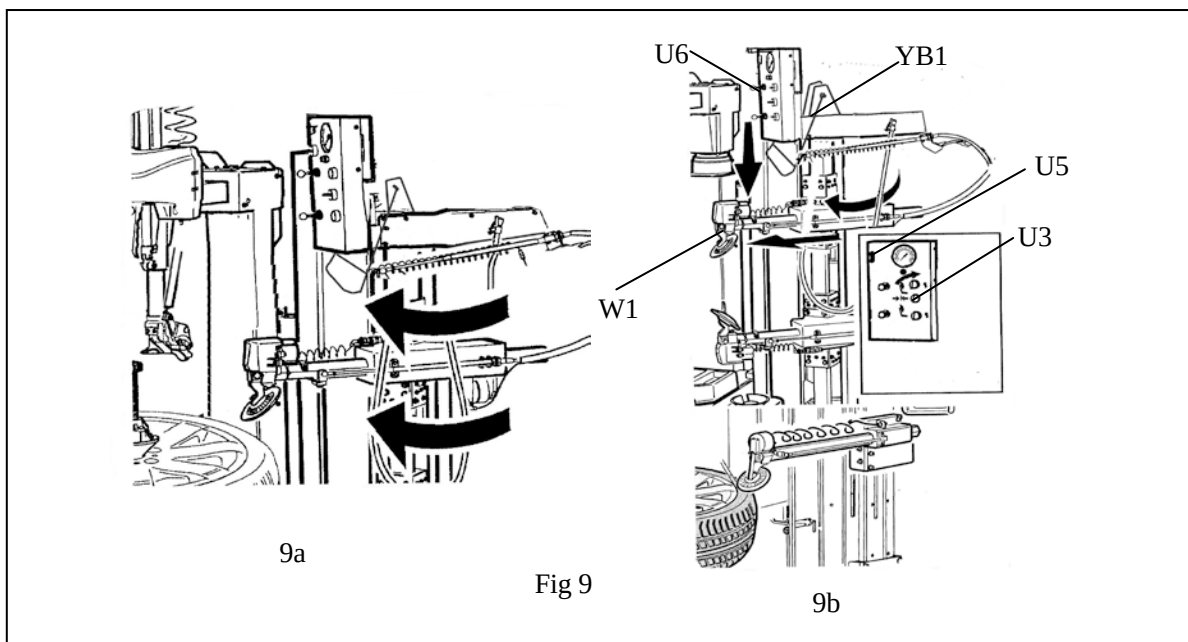
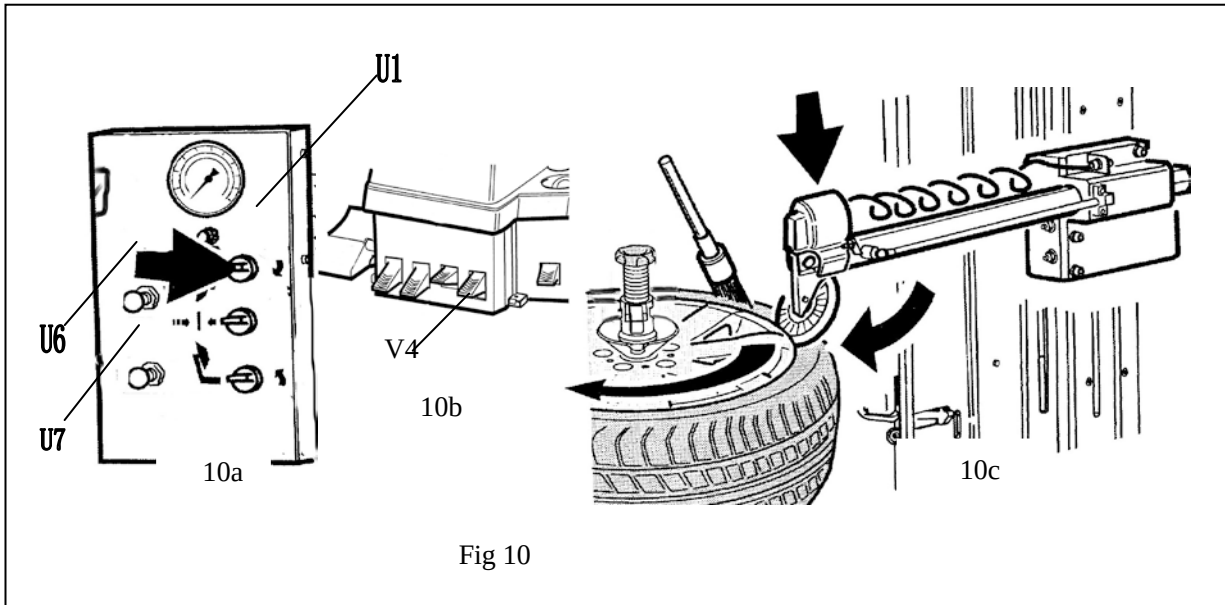


Fig 9

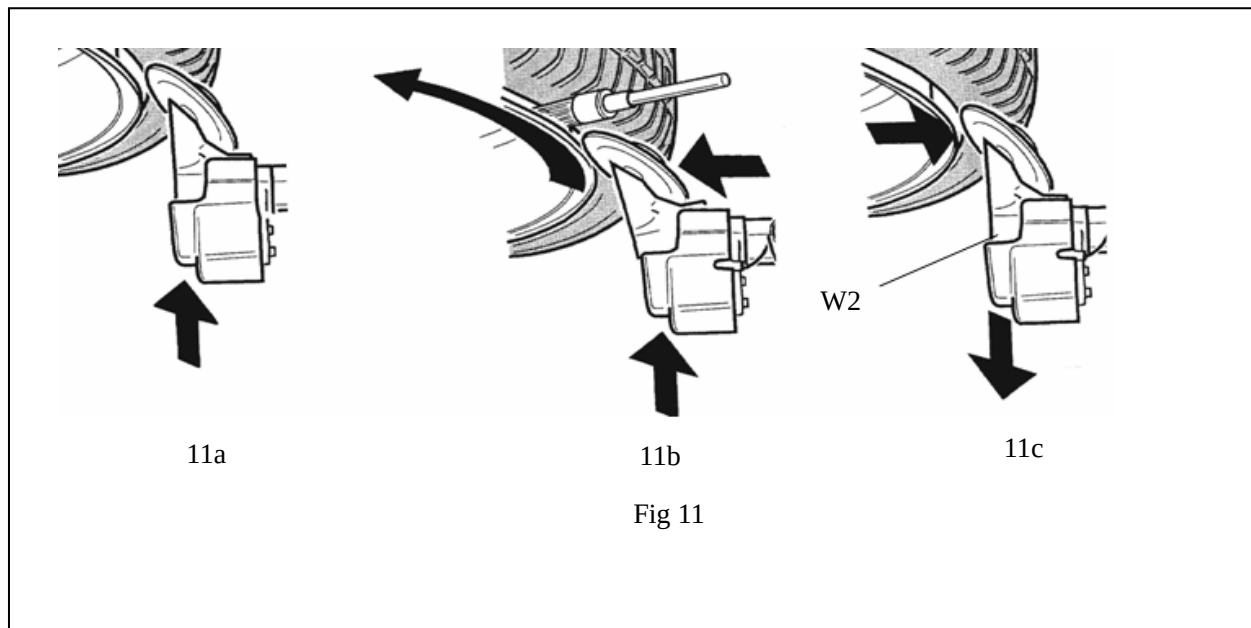
3. Loose the upper tyre bead:

Swing the handle (U6) downward (**Fig 10a**), and the tyre pressing roller W1 lower 10mm on the upper space of tyre. Turn on the control switch of the tyre pressing roller (U2) to rotate its angle and press into the inboard rim to bead. Tread the turntable rotating pedal V4 (**Fig 10b**) at the same time. Lubricate the tyre bead and rim while it is rotating until the tyre separates from the rim (**Fig 10c**). Wring the switch U2 to return the tyre pressing roller. Swing the handle U6 upward to lift the tyre pressing roller.



4. Loose the down tyre bead:

Swing the handle (U7) upward (**Fig 10a**), and the tyre pressing roller W2 lower 10mm on the upper space of tyre. Turn on the control switch of the tyre pressing roller (U4) to rotate its angle and press into the inboard rim to bead. Tread the turntable rotating pedal V4(**Fig 10b**) at the same time. Lubricate the tyre bead and rim while it is rotating until the tyre separates from the rim (**Fig 11b**). Wring the switch U4 to return the tyre pressing roller. Swing the handle U7 downward to lower the tyre pressing roller (**Fig 11c**).



5. Locate the active tyre changer hook:

- 1) Keep the locking handle in the position shown as **Fig 12c**. Tread the tilting pedal (V1) to keep the column in vertical state (**Fig 12a**).
- 2) Keep the locking handle (K) in K1/K2 state (**Fig 12b**). Pull the sliding arm (N) with left hand and hold the cylinder rod of tyre changer hook (F) with right hand. Adjust them to the rim edge that close to the protective washer of the tyre changer hook and make the hexagonal rod below approach to the rim edge. Then pull the sliding arm (N) again to make the protective washer of tyre changer hook be close to the rim edge (**Fig 12e**).
- 3) Keep the locking handle (K) in K2/K3 state (**Fig 12d**) and lock the hexagonal rod (M) and sliding arm (N) tightly

Caution: Lift up the active part of the tyre changer hook by operating the pneumatic control valve(I) if the tyre changer hook is not in the default position (**Fig 12g**).

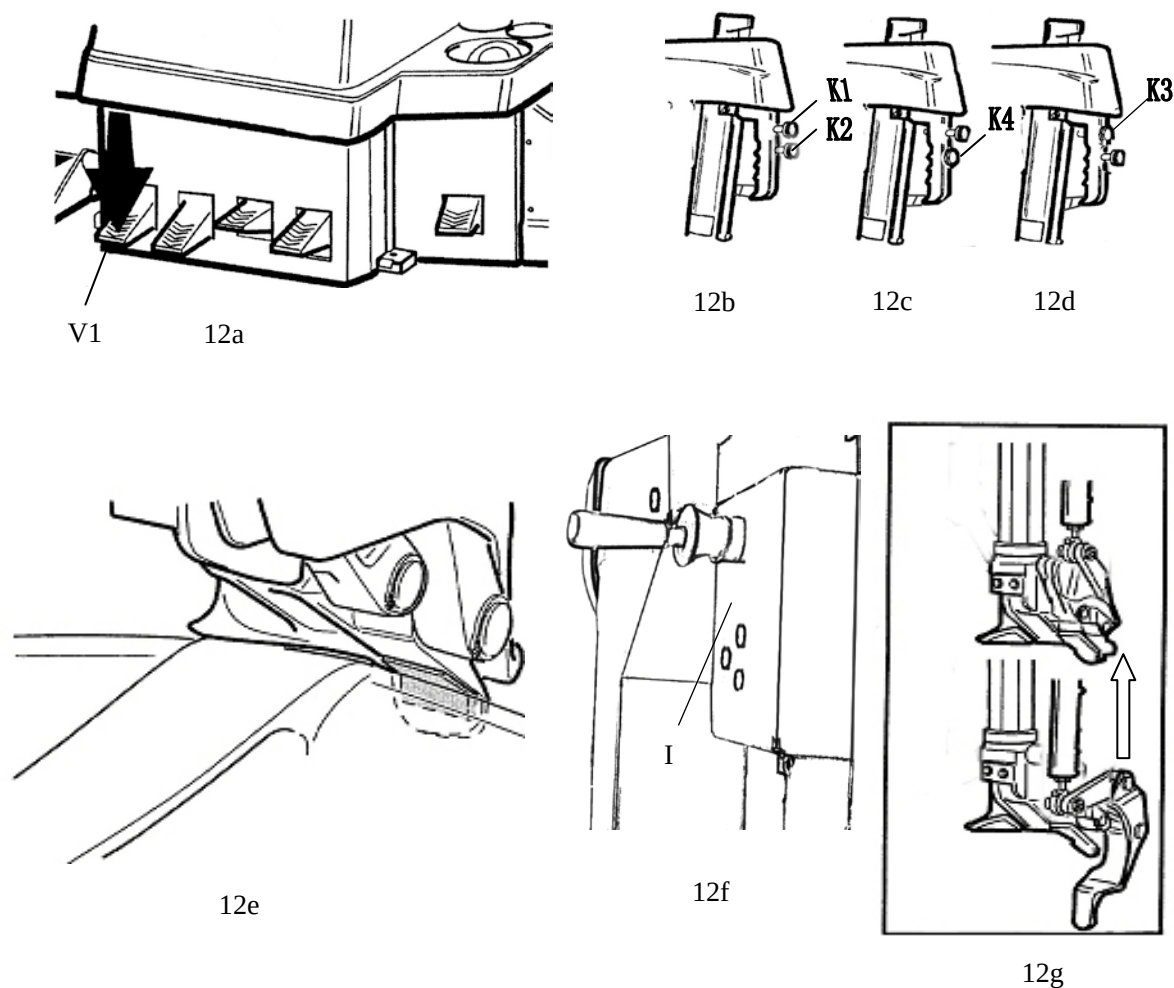
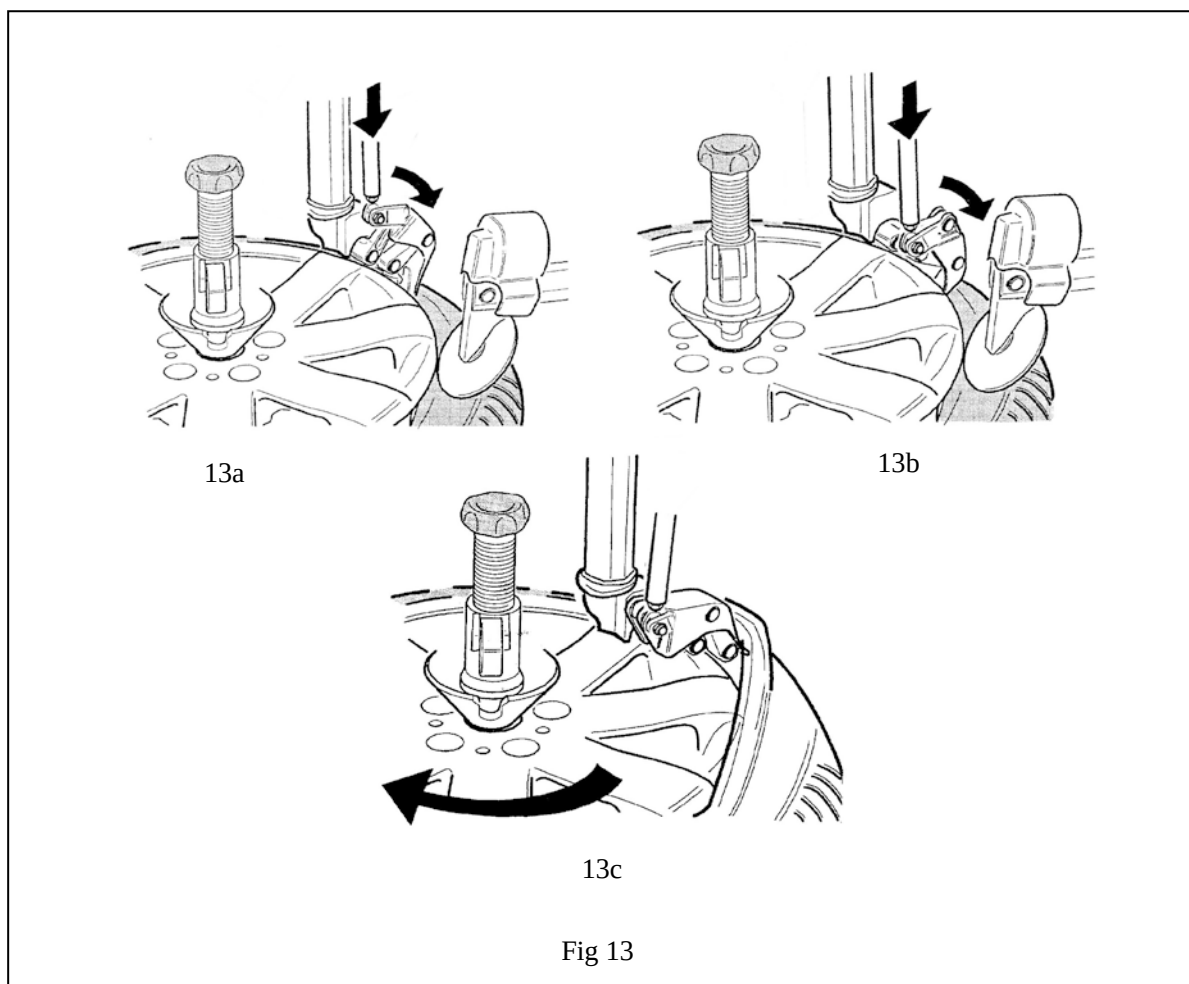


Fig 12

6. Breaking the upper tyre bead:

- 1) Swing the pneumatic control valve (I) of the tyre changer hook downward (**Fig 13a**), the active part of tyre changer hook will go deep into the gap between the tyre and the rim (**Fig 13b**)
- 2) Swing the pneumatic control valve (I) of the tyre changer hook upward, the tyre bead is pulled by the active part of tyre changer hook (**Fig 13c**)
- 3) Tread the turntable rotating pedal V4, the rim starts to rotate and the upper tyre bead is demounted after rotating a cycle (**Fig 13c**)



7. Breaking the down tyre bead:

- 1) Swing the pneumatic control button (U6) upward after demounting the upper tyre bead, the tyre pressing roller (**W1**) moves upward and stop moving until the distance between the tyre pressing roller and the upper tyre bead is more than thickness of a tyre.
- 2) Swing the pneumatic control button (U7) upward, the tyre pressing roller drives the upper tyre bead to move upward until the down tyre bead lies on upper rim edge (**Fig 14a**).
- 3) Swing the pneumatic control valve (I) of the tyre changer hook, the active part of tyre changer hook will go deep into the gap between the tyre and the rim (**Fig 14b**). And then swing the pneumatic control valve (I) of the tyre changer hook upward, the tyre bead is pulled by the active part of tyre changer hook (**Fig 14c**).
- 4) Tread the turntable rotating pedal V4, the rim starts to rotate and the upper tyre bead is demounted after rotating a cycle (**Fig 14d**).

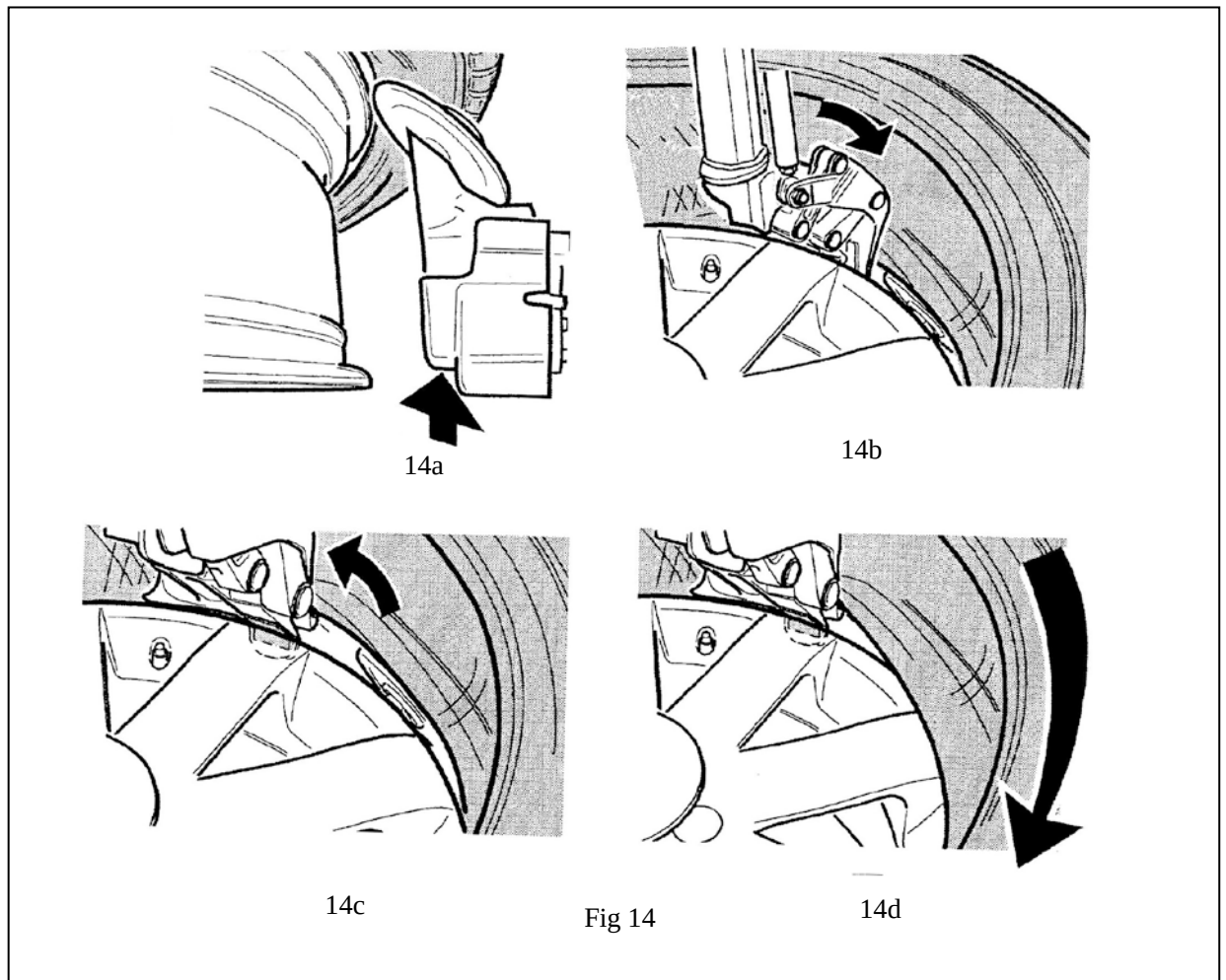


Fig 14

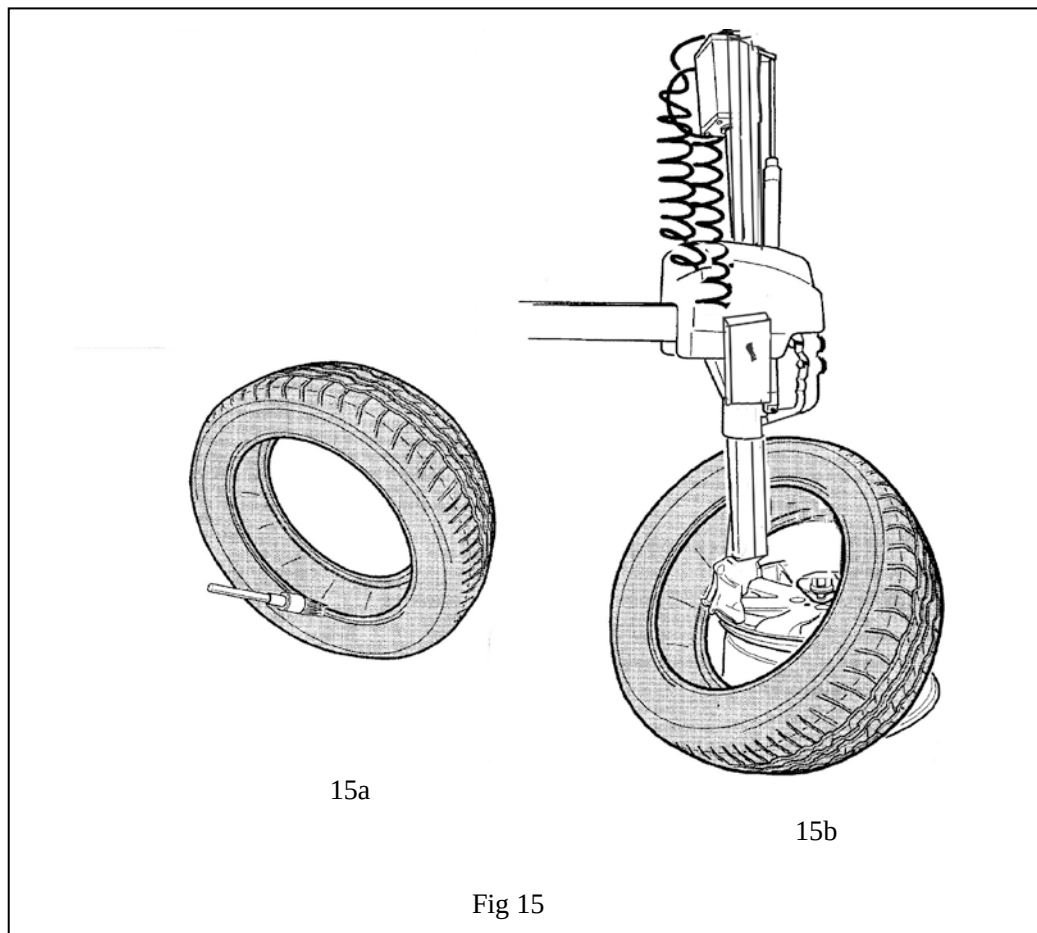
8.2 Mounting the tyres

1. Check the tyre and the rim.

Caution: Please check the tyre and the rim before installation, it is important to prevent the tyres from cracking during the inflation and installation of rim. Do not install the tyre when there is any damage found on the tyre and curtain fabric. The tyre rim has dents and upheaval, which may cause internal micro cracks invisible to the naked eye and damage the rim. Also it can bring dangers during inflation.

Caution: Make sure the rim diameter and tyre diameter are the same. The rim diameter is marked on the tyre rim, also the tyre diameter is marked on the side wall of tyre. Do not install tyre when uncertain.

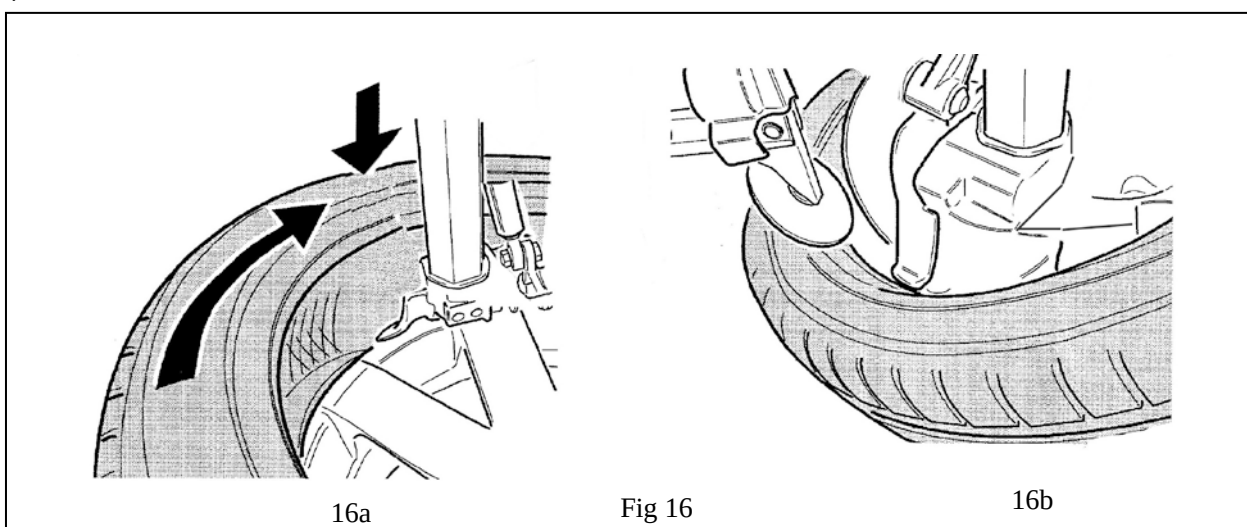
2. Lubricate the tyre bead and rim with lubricants recommended by the manufacturer (**Fig 15a**).
3. Put the tyre on the rim (**Fig 15b**).



4. Installing the down tyre bead.

1) Swing the pneumatic control valve (I) of tyre changer hook upward to make the active part of tyre changer hook back to the original state. Operate the combined control valve (K), make the protective washer of tyre changer hook close to the rim and the down tyre bead lay under the fixed end of tyre changer hook. (**Fig 16a**).

2) Press the tyre a little. Tread the turntable pedal (V4), the tyre rim rotates a cycle and the down tyre bead is installed (**Fig 16b**).



5. Installing the up tyre bead.

1) Keep the height of tyre pressing rod as same as the tyre rim by operating the rotary knob U6/U3. Lock the tyre pressing roller W1 tightly. Operate the rotary knob U2 to make the tyre pressing roller W1 press the tyre (**Fig 17a**).

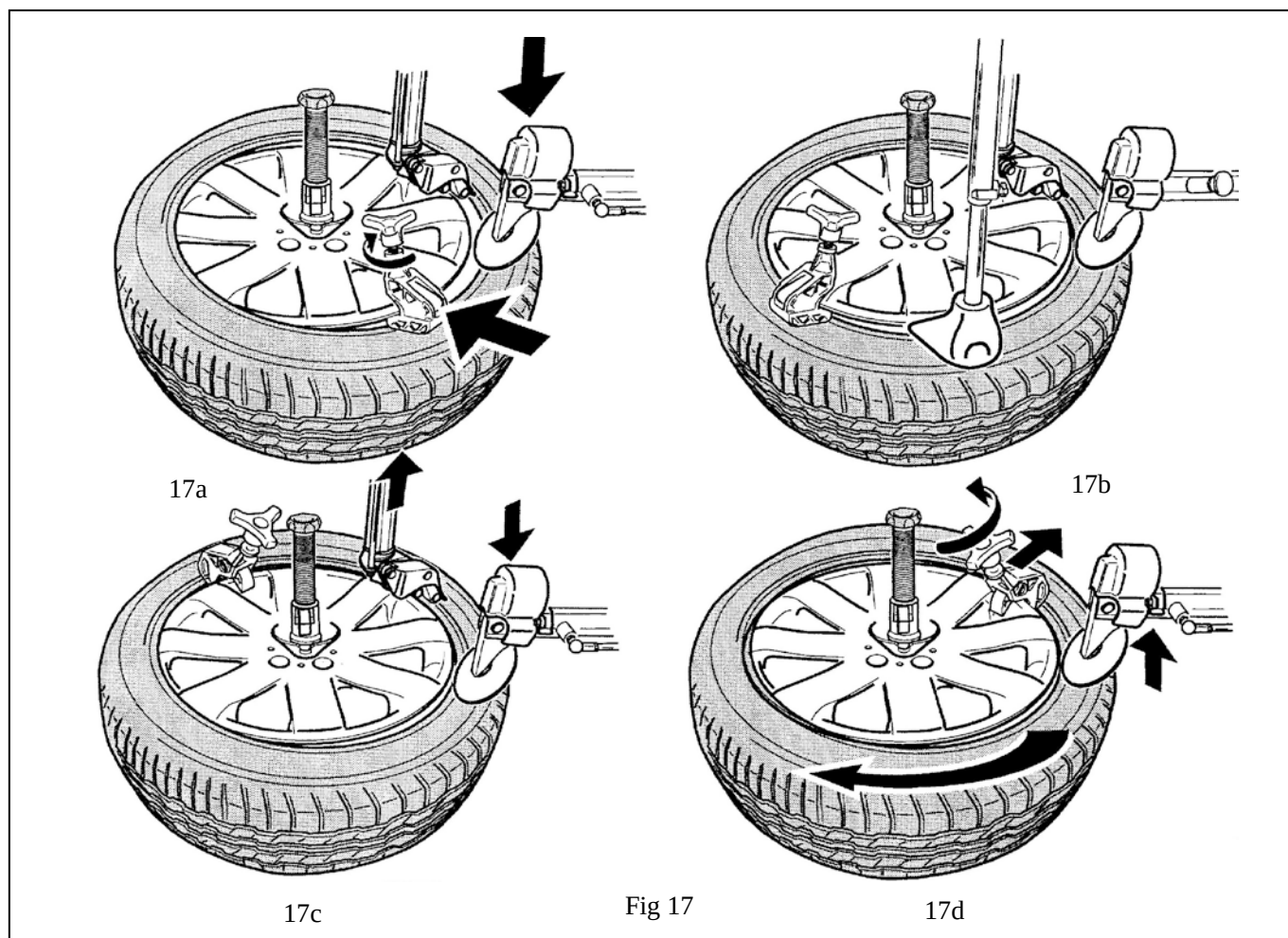
2) Install the tyre pressing device manually and make distance about 3-4cm from the tyre pressing roller. Lock it tightly on the rim edge (**Fig 17a**).

3) Tread the pedal (V4) to rotate the rim, and the tyre is pulled into the rim gradually. Release the pedal V4 when the rim turns half of a cycle. Swing the help arm push valve (S) to lower the tyre pressing head. Press the tyre with 4-6cm downward and notice not to press the rim (**Fig 17b**).

4) Tread the pedal (V4) to rotate the rim. Release the pedal V4 when the manual tyre pressing head keep 10-15cm from the tyre changer hook, then the tyre is installed on the rim. Operate the combined control valve (K) to keep itself in K3 state. The hexagonal rod rises and the mount/demount head leaves the tyre surface (**Fig 17c**).

5) Swing the help arm push valve (S) to lift up the tyre pressing head (L). Pull the help arm back to its original position, tread the turntable rotating pedal (V4) and demount the manual tyre pressing device when it rotates to a suitable place for demounting (**Fig 17d**).

Caution: The installation base always rotates clockwise when demounting and installation. It is only used for correcting the operation mistake when anticlockwise rotation.



8.3 Inflating the tyres

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 can make the tire go upward and outward, and the big power may cause injury or death to 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 fails to comply with the safety regulation;

Please operate as follows (Fig 18):

- 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) Check if the tyre bead and wheel rim are well lubricated, 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 it reaches to the required pressure.

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

Keep hands and 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.

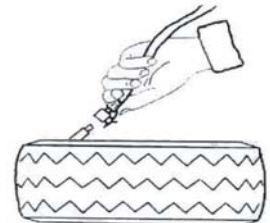


Fig 18

8.4 Tripping out the tyre and the center shaft

Tread the center shaft clamping pedal (V2), the center shaft is released. (Fig 19a);

Take down the center shaft (Fig 19b);

Take down the cone block.

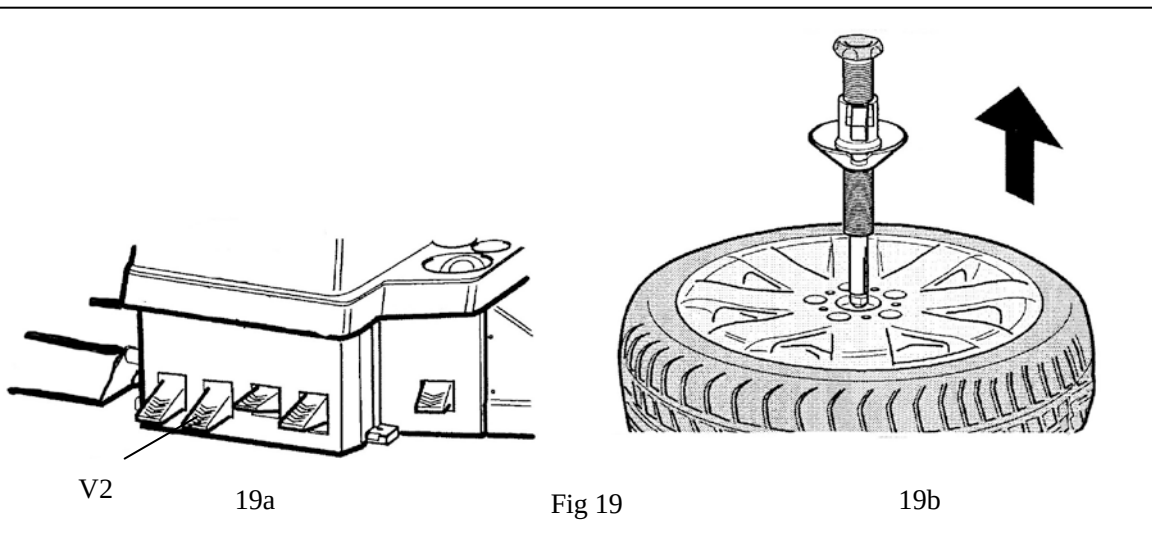
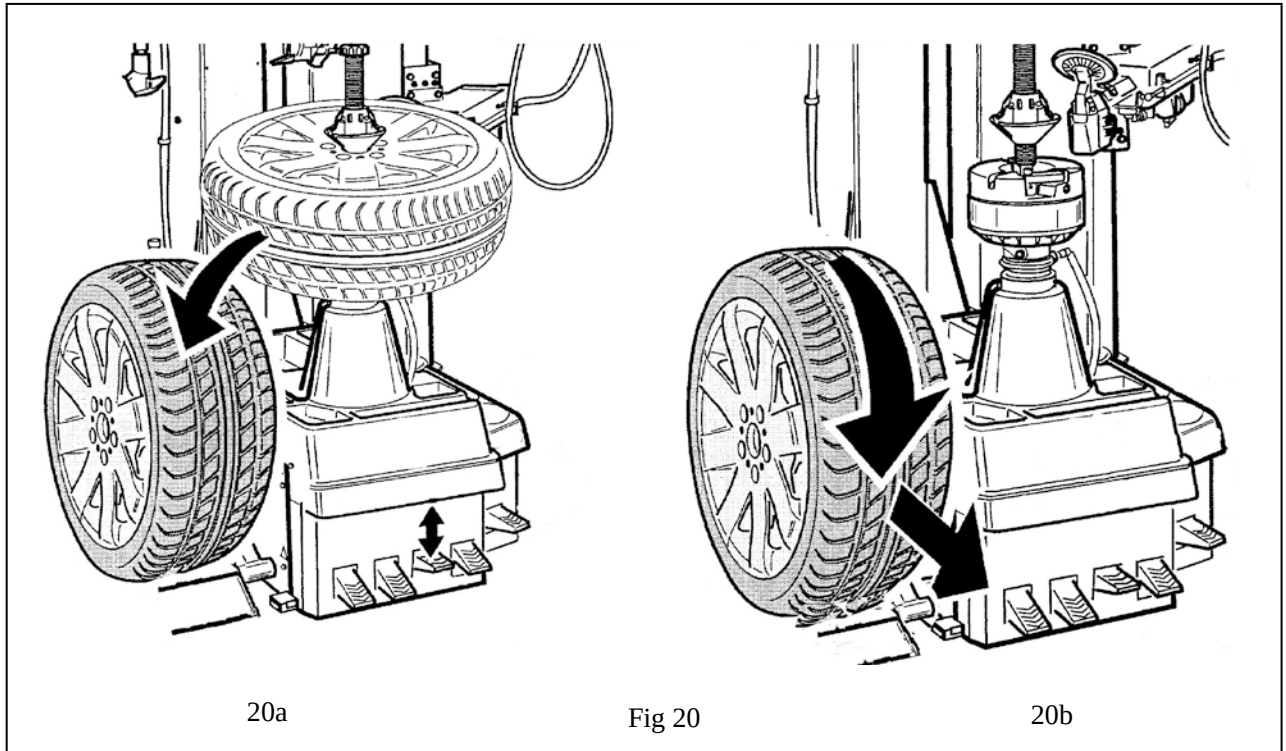


Fig 19

8.5 Take down the tyre

Tread the tyre lifting pedal (V3) to lift up the tyre lifting device (J). Put the tyre on the tyre lifting device (**Fig 20a**);

Tread the tyre lifting pedal (V3) to lower the tyre lifting device (J). Remove the tyre from the tyre lifting device (**Fig 20b**).



20a

Fig 20

20b

9. 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.

10. 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.

- 1) If hexagonal pressing rod 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 21a** and adjust the (X).
- 2) In the event of installation base 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 (**Fig 21b**), keep a suitable distance between motor support and motor base; tight the screws for the belt tension.
- 3) Keep the control valve of the tread pedal clean if the tread pedal is delaying. Open the left side cover and remove the part connected with the valve (**Fig 21c**). Use the compressed air to clean the muffler (release valve). Replace it if it is broken.

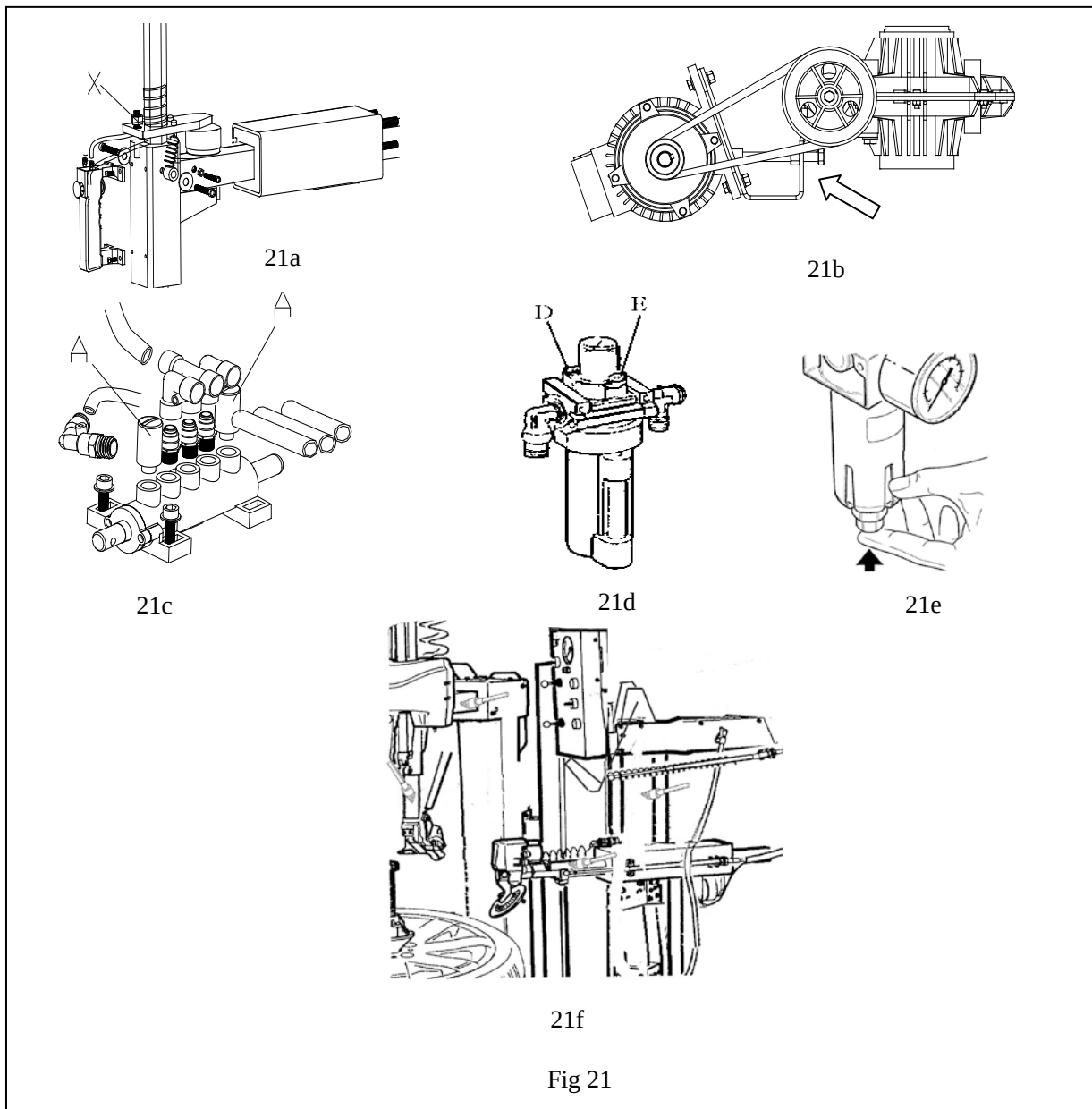
Following maintenance must be done at least once per month:

(1) 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 21d**).

(2) Release the water in the air inlet pressure regulating valve. Press (H) manually and the water is ejected (**Fig 21e**).

(3) Lubricate the lifting guide, tyre pressing rod, hexagonal pressing rod and all the active parts (**Fig 21f**).

(4) Use the dry cloth to clean the machine body and the organic solvent is prohibited.



11. Trouble shooting table

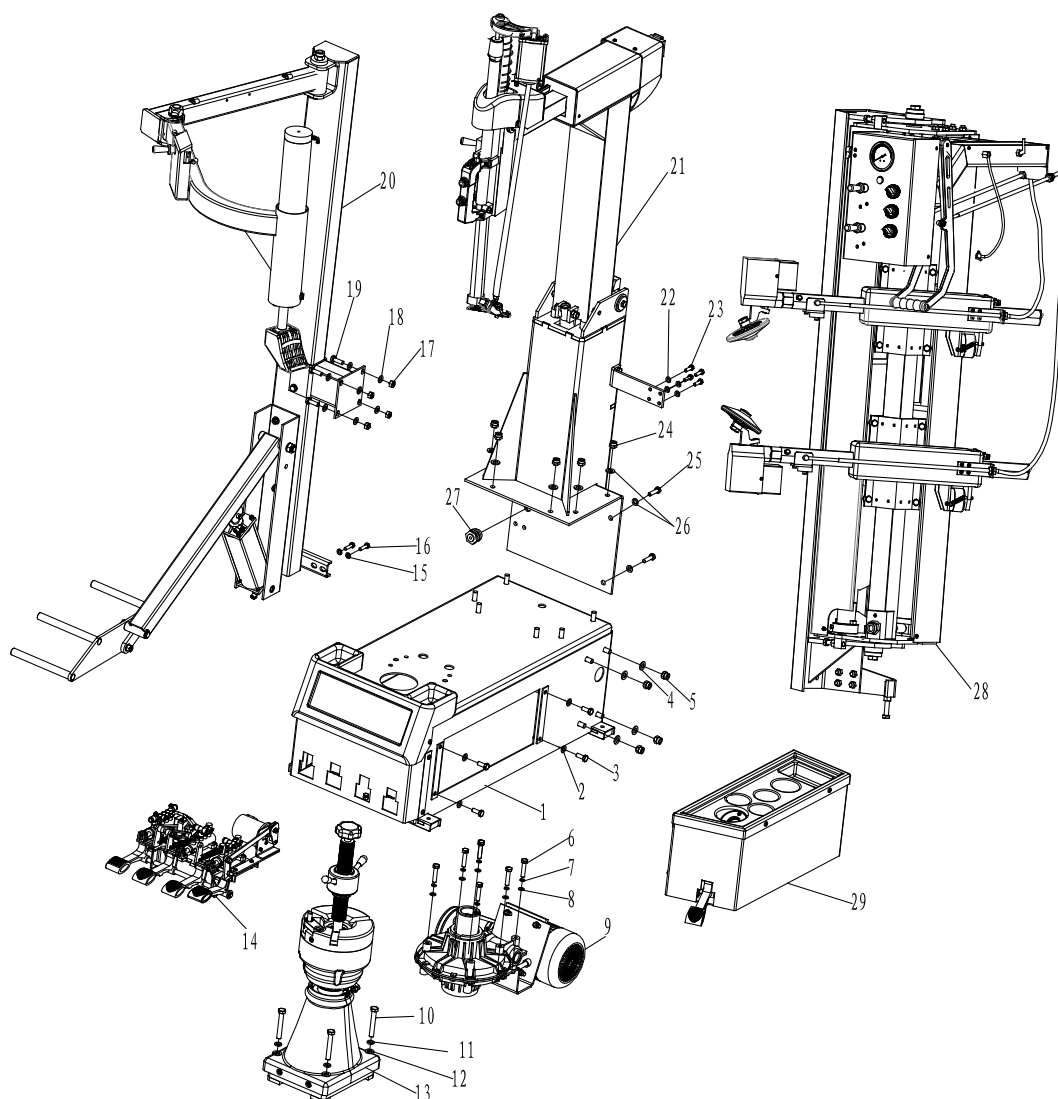
Problem	Reason	Solution
The installation base rotate just in one direction or can't rotate.	Reverse Switch broken	Replace the Reverse Switch
	Belt broken	Replace the belt
	The Motor's malfunction	Replace the motor
Demount or fix the wheel, the center shaft can't lock (spin with wheel);or it delays to work	Leakage of Air network	Check all the parts on the air network.
	The installation base cylinder can't work.	Replace the cylinder piston.
	The low air pressure	Adjust the air source
The demount/mount head always touch the rim during operation.	The locking plate incorrectly adjusting.	Replace or adjust it.
	Screws on the chuck loose; the Hexagonal Vertical Arm can't be locked by Locking Plate	Tighten the screws; replace the Locking Plate.
The tyre lifting support can't work	No air source or air pressure in not enough	Adjust the air source

If the inspection cannot solve the problems above, please contact our technical person.

12. Storage

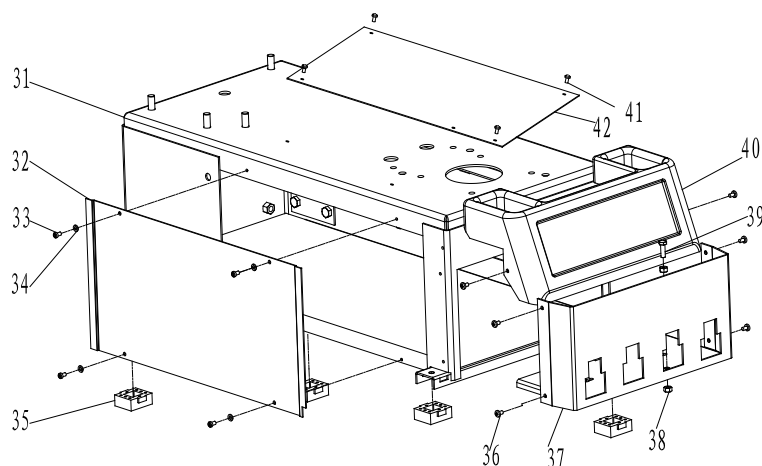
If the equipment needs to be moved to other place and arranged new working place because of other reasons, please cut off the power supply and air source, use forklifts and lifting system to move the equipment to a new place and place it as required.(The process must be under the condition of technical person on the scene) Spray the anti-dust oil on each moving guide rail and eject the oil in the oil pump if the equipment is not used over three months. Twine the equipment outside with protective film and cover the packing box.

13. Exploded drawing



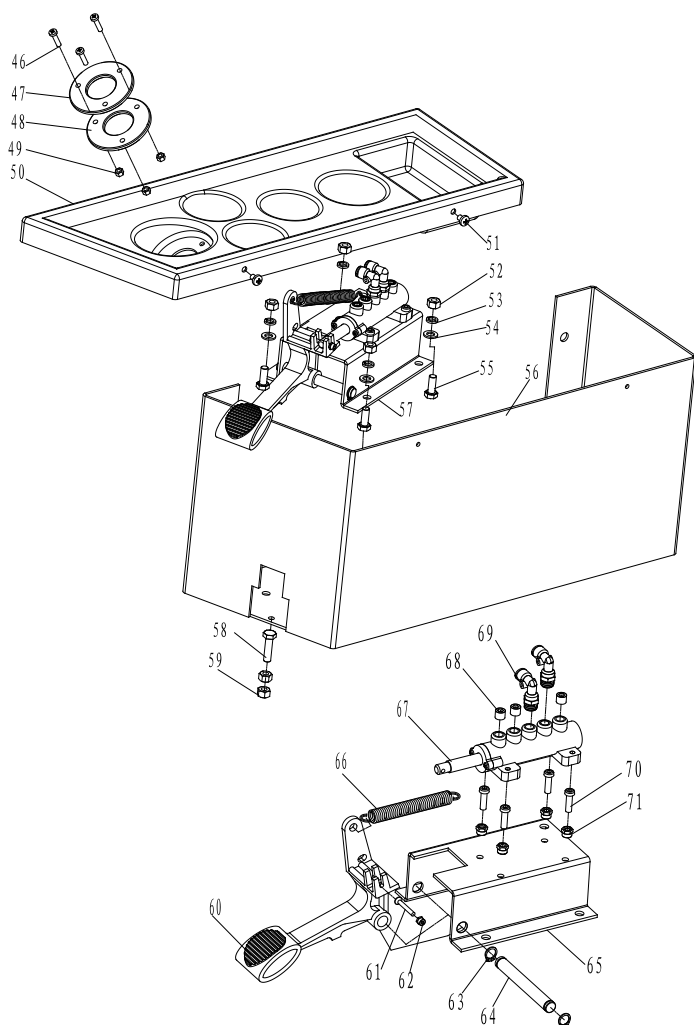
1		Complete Machine body	16	B-010-100301-0	Hex socket head screw M10*30
2	B-040-102020-1	Flat washer M10	17	B-001-100001-0	Hex nut M10
3	B-014-100251-0	Hex socket head bolt M10*25	18	B-040-102020-1	Flat washer M10
4	B-040-122020-1	Flat washer M12	19	B-014-100251-0	Hex socket head bolt M10*25
5	B-001-120001-0	Self-locking nut M12	20		Complete Left help arm
6	B-010-100501-0	Hex socket head screw M10*50	21		Complete Tilting arm
7	B-040-102020-1	Flat washer M10	22	B-040-102020-1	Flat washer M10
8	B-050-100000-0	Spring washer M10	23	B-014-100251-0	Hex socket head bolt M10*25
9		Complete Power input	24	B-001-120001-0	Self-locking nut M12
10	B-014-120701-0	Hex socket head bolt M12*70	25	B-014-100251-0	Hex socket head bolt M10*25
11	B-040-122020-1	Flat washer M12	26	B-040-102020-1	Flat washer M12
12	B-050-100000-0	Spring washer M10	27	S-025-000135-0	Nylon cable gland
13		Complete Installation base	28		Complete Right help arm
14		Complete Pedal Assembly	29		Complete Side box
15	B-040-102020-1	Flat washer M10			

13.1 Complete Machine body



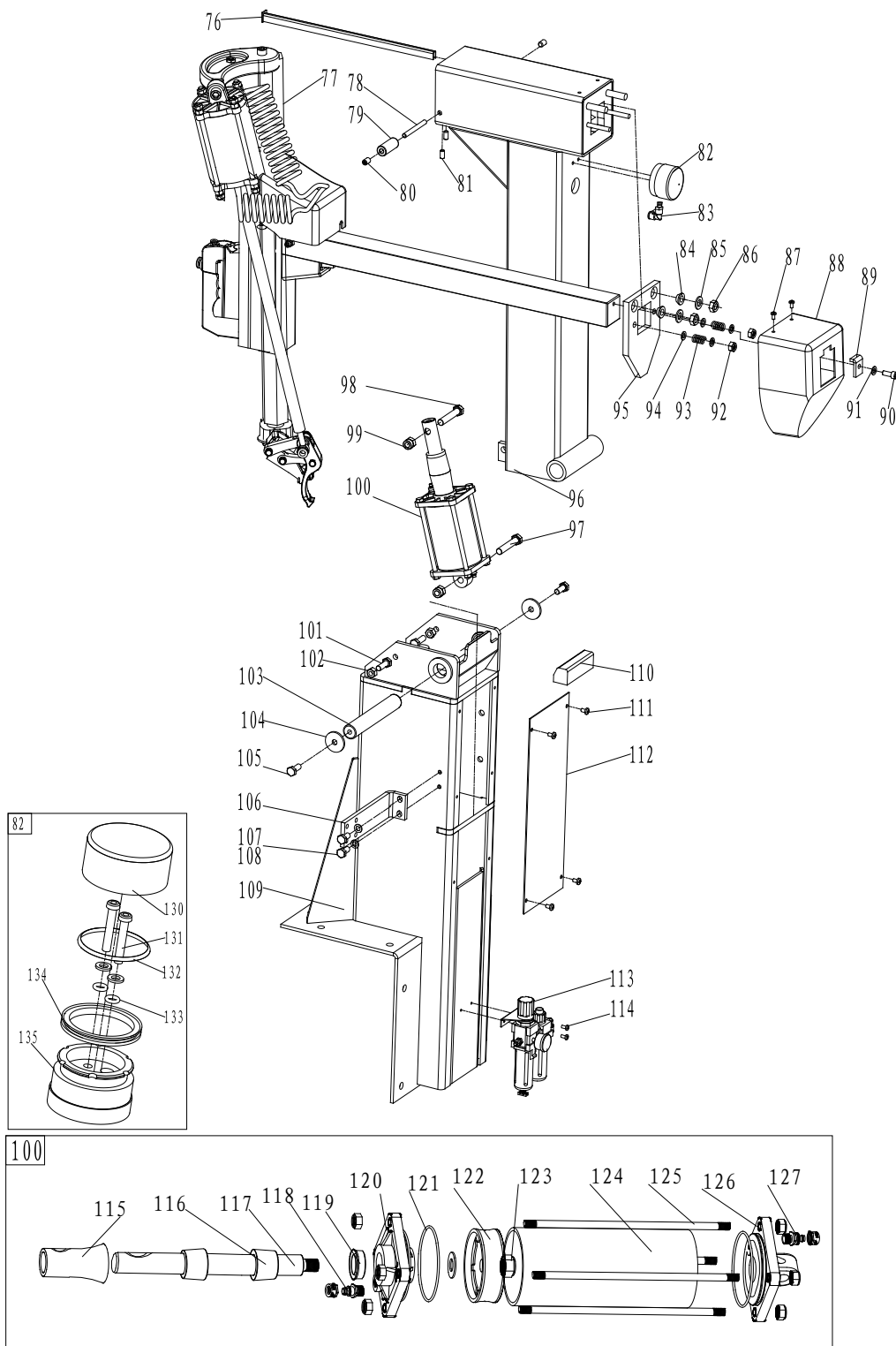
31	CX-259-010000-	Machine body
32	CX-259-010400-	Left cover
33	B-010-060101-0	Hex socket head screw M6*10
34	B-040-061210-1	Flat washer M6
35	C-000-001020-0	Rubber foot buffer
36	B-010-060101-0	Hex socket head screw M6*10
37	CA-026-025900-	Pedal front cover
38	B-001-080001-0	Hex nut M8
39	B-014-080251-0	Hex socket head bolt M8*25
40	C-259-010500-0	Front cover
41	B-024-050101-0	Cross head screw M5*10
42	CZ-256-360000-	Tyre changer mirror

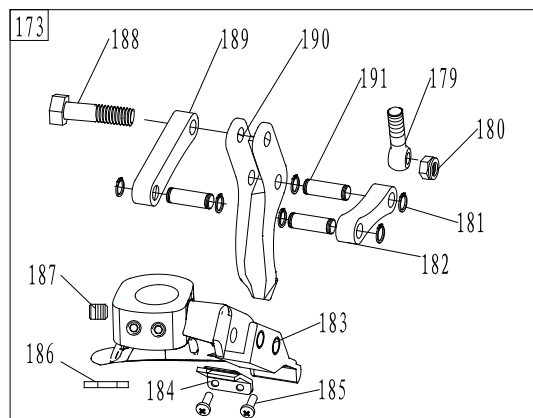
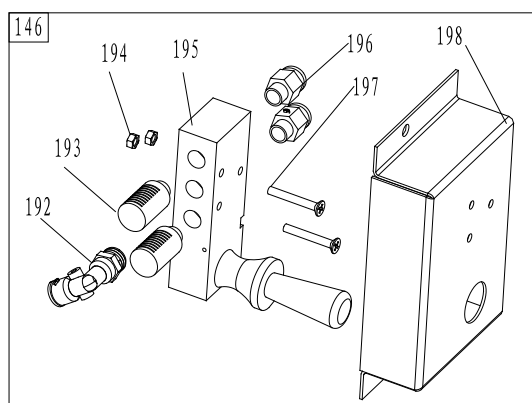
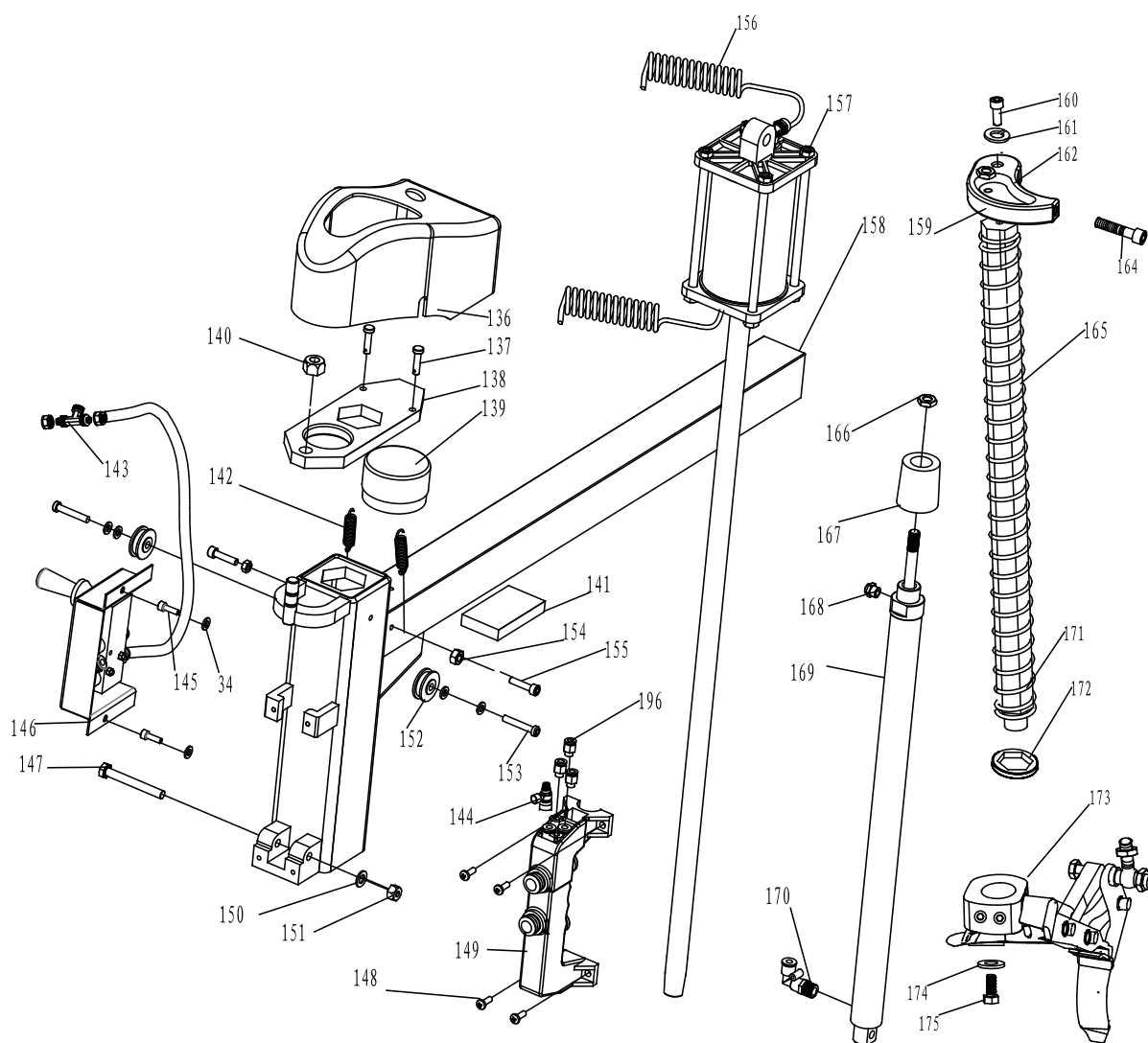
13.2 Complete Side box



46	B-010-050161-0	Hex socket head screw M5*16
47	CZ-259-020400-0	Protection upper cover
48	CZ-259-020500-0	Protection lower cover
49	B-001-050001-0	Hex nut M5
50	C-259-020100-0	side box upper cover
51	B-024-050101-1	Cross head screw M5*10
52	B-001-080001-0	Hex nut M8
53	B-050-080000-0	Spring washer M8
54	B-040-081715-1	Flat washer M8
55	B-014-080251-0	Hex socket head bolt M8*25
56	CX-259-020000-0	Side box
57		Complete Inflating pedal
58	B-014-080251-0	Hex socket head bolt M8*25
59	B-001-080001-0	Hex nut M8
60	C-228-060300-0	5-way valve pedal(right)
61	B-024-040301-0	Cross head screw M4*30
62	B-001-040001-0	Self-locking nut M4
63	B-055-120001-0	Circlip for shaft $\phi 12$
64	CX-228-061700-0	Pedal support shaft 228
65	CX-228-061600-0	Pedal support 228
66	C-200-380000-0	Pedal spring
67		Complete Inflating 5-way valve
68	B-007-180081-R	Hex socket head set screw 1/8*8
69	S-012-010808-0	Quick union 1/8-8
70	B-010-060201-0	Hex socket head screw M6*20
71	B-001-060001-0	Self-locking nut M6

13.3 Complete Tilting arm

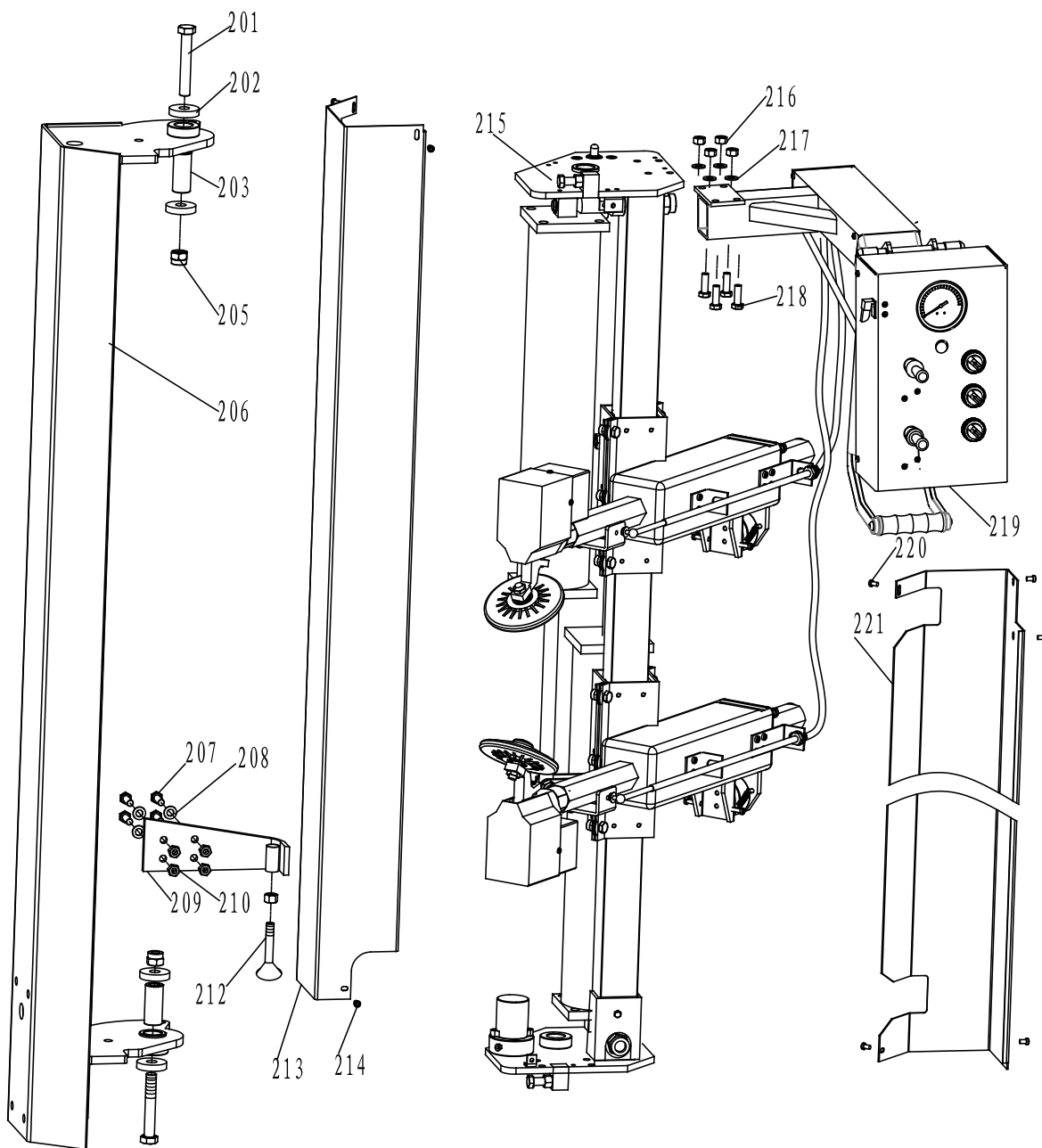


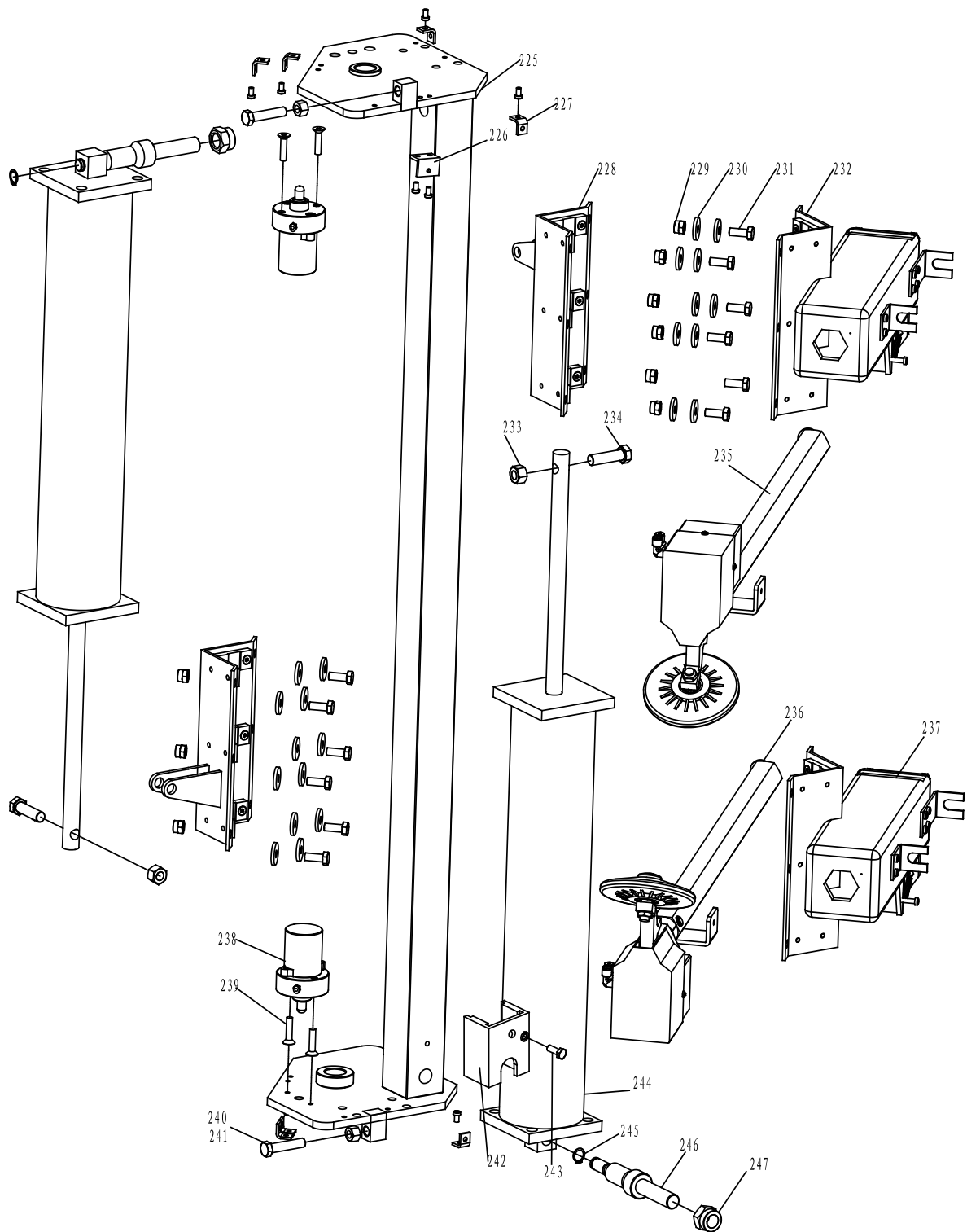


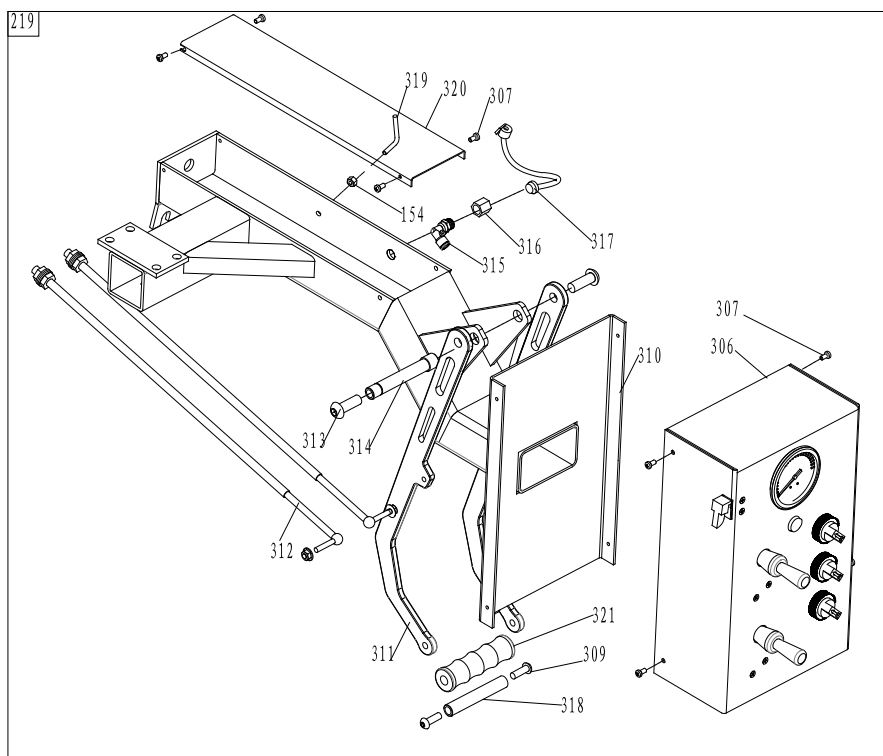
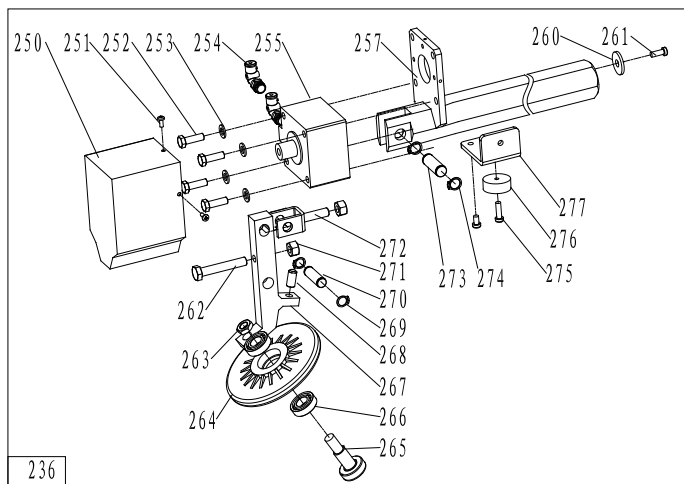
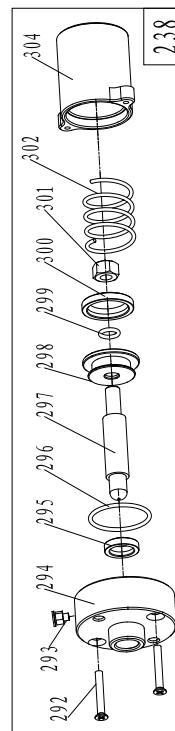
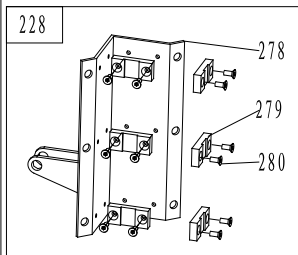
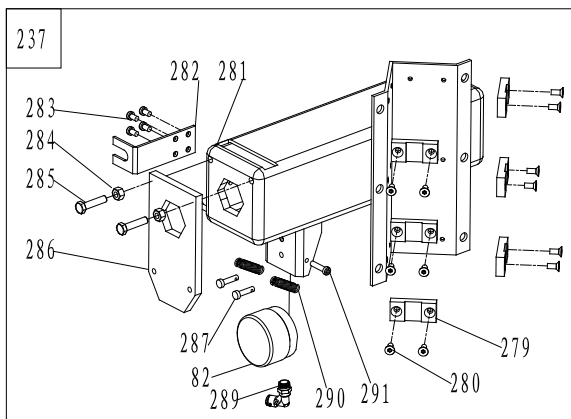
76	C-231-790000-0	Hose guide	124	C-221-350500-0	Tilting cylinder barrel
77		Complete Horizontal arm	125	C-221-350900-0	Tilting cylinder threaded
78	C-231-251400-0	Pulley pin	126	C-221-350300-0	Tilting cylinder cover with handle
79	C-231-251300-0	Column side pulley	127	S-011-010806-0	Quick straight union 1/8-6
80	B-007-100161-0	Hex socket head screw M10*16	130	CX-221-090200-0	Locking cylinder cover Ø60
81	B-007-080161-0	Hex socket head screw M8*16	131	B-010-060551-0	Hex socket head bolt M6×55
82		Complete Locking cylinder	132	S-000-052200-0	O-seal Ø52×2
83	S-012-010806-0	Quick union φ6	133	S-000-006300-0	O-seal Ø6×3
84	C-221-230000-0	Locking spacer	134	S-005-050065-0	V-seal 60*50*6.5
85	B-040-122020-1	Flat washer M12	135	C-221-090100-0	Locking cylinder piston
86	B-001-120001-0	Self-locking nut M12	136	C-231-480000-0	Horizontal arm protection front cover
87	B-024-050101-0	Cross head screw M5*10	137	C-221-220100-0	Spring hook pin
88	C-231-780000-0	Horizontal arm protection back	138	CX-259-220000-0	Hex locking board
89	CX-231-240000-0	Horizontal arm block	139		Referring to 82
90	B-014-080201-0	Hex socket head bolt M8*20	140	B-001-100001-0	Self-locking nut M10
91	B-040-081715-1	Flat washer φ8	141	C-221-200000-0	Shock absorber
92	B-001-080001-0	Self-locking nut M8	142	C-221-400000-0	Hex locking board spring
93	C-221-410000-0	Horizontal arm locking spring	143	S-017-010806-2	T-union 1/8-2*Ø6
94	B-040-081715-1	Flat washer φ8	144	S-030-010806-0	Throttle valveESL6-01
95	CX-221-190000-0	Horizontal arm locking	145	B-010-060101-0	Hex socket head screw M6*10
96	CX-259-260000-0	Complete Tilting rod	146		Handle valve control box complete
97	B-014-120551-0	Hex socket head bolt M12*55	147	B-014-080651-0	Hex socket head screw M8*65
98	B-014-120651-0	Hex socket head bolt M12*65	148	B-024-050161-0	Cross head screw M5*16
99	B-001-120001-0	Self-locking nut M12	149		Pneumatic switch(Metal)
100	CW-105-021102-0	Complete Tilting cylinder	150	B-040-081715-1	Flat washer φ8
101	B-014-080251-0	Hex socket head bolt M8*25	151	B-001-080001-0	Self-locking nut M8
102	B-001-080001-0	Hex nut M8	152	P-822-160700-0	Stick handle rubber
103	CX-221-260000-0	Column shaft	153	B-010-060351-0	Hex socket head bolt M6×35
104	B-040-104030-1	Flat washer 10×40×3	154	B-001-060001-0	Hex nut M6
105	B-014-100251-0	Hex socket head bolt M10*25	155	B-010-060161-0	Hex socket head bolt M6×16
106		Right help arm connection board	156	C-T01-120000-0	Helical hose
107	B-014-080251-0	Hex socket head bolt M8*25	157	CX-T01-090000-0	Tyre changer hook cylinder
108	B-040-081715-1	Flat washer φ8	158	CX-259-180000-0	Complete Horizontal arm
109	CX-259-250000-0	Complete Column	159	CX-T01-110000-0	Vertical arm cap
110	C-221-820000-0	Tilting protect cover	160	B-010-100301-0	Hex socket head screw M10*30
111	B-024-050101-0	Cross head screw M5*10	161	B-050-100000-0	Spring washer M10
112	CX-259-250700-0	Upper seal board	162	B-004-100001-1	Thin nut M10
113	S-033-350000-0	Oil fog maker 3500	164	B-010-120451-0	Hex socket head screw M12*45
114	B-024-050101-0	Cross head screw M5*10	165	CX-259-160100-0	Vertical arm
115	CX-221-351000-0	Tilting cylinder piston rod cover	166	B-004-100001-3	Thin nut M10*1.25
116	C-221-350700-0	Tilting cylinder rubber sheath	167	C-221-350700-0	Tilting cylinder rubber sheath
117	C-221-350200-0	Tilting cylinder piston rod	168	S-023-010801-6	Muffler(Metal)
118		Quick straight union 1/8-6	169	C-259-160200-0	Vertical arm raise-fall cylinder
119	S-005-020075-0	V-seal Ø20*28*7.5	170	S-012-010806-0	Quick union φ6-1/8
120	C-221-350100-0	Tilting cylinder cover without handle	171	C-228-390000-0	Vertical arm spring
121	S-000-068353-0	O-seal Ø68.26*3.53	172	C-228-520000-0	Vertical arm washer
122	C-221-550000-0	Tilting cylinder piston	173		Mount/demount head T01
123	B-004-120071-1	Thin nut M12	174	CX-200-170000-0	Mount/demount head protection

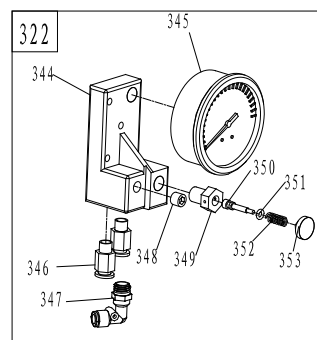
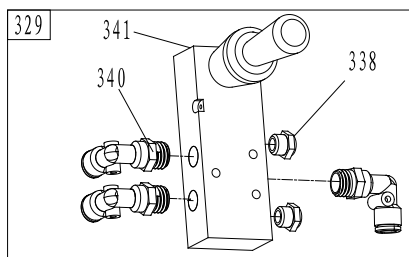
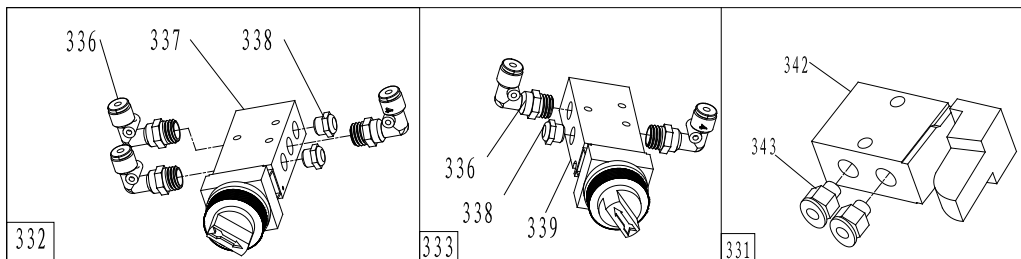
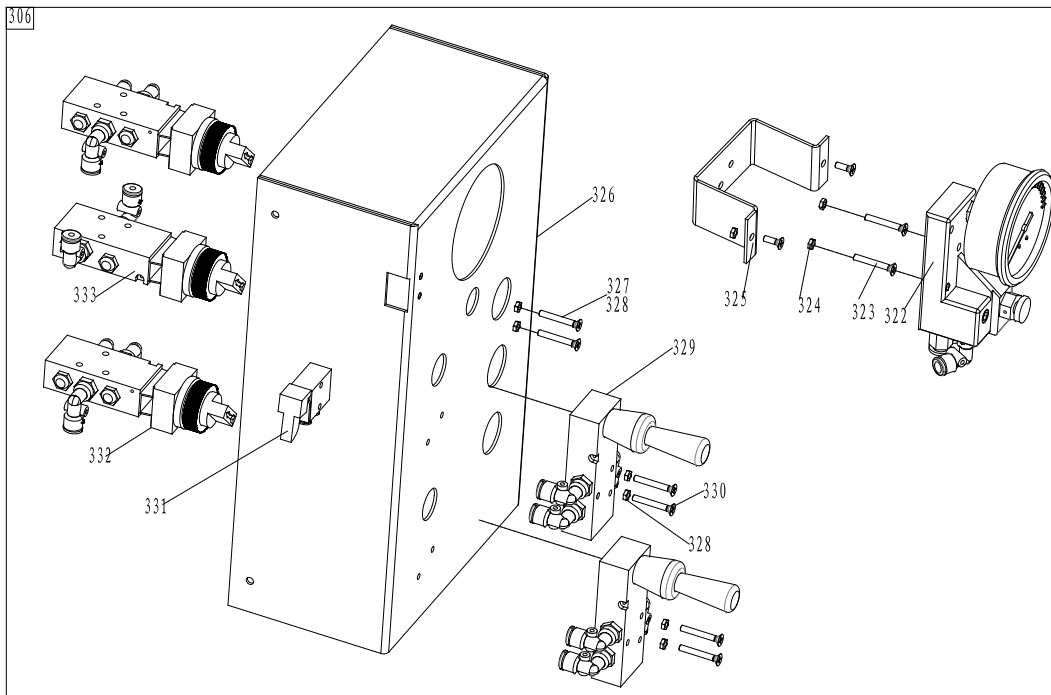
175	B-014-100251-0	Hex socket head screw M10*25	189	C-T01-030000-0	Connection rod 1
179	S-040-000010-0	Knuckle bearingSA10E	190	C-T01-020000-0	Hook
180	B-001-120001-0	Self-locking nut M10	191	CX-T01-050000-0	Pin
181	B-055-100001-0	Circlip for shaft ϕ 10	192	S-012-010806-0	Quick union ϕ 6-1/8
182	C-T01-040000-0	Connection rod 2	193	S-023-010801-0	Muffler(Plastic)
183	C-T01-010000-0	Tyre changer seat	194	B-004-040001-1	Hex nut M4
184	C-T01-070000-0	Washer	195	S-030-010818-0	Handle valve
185	B-017-040081-0	Cross head screw M4*8	196	S-012-010806-0	Quick straight union ϕ 6-1/8
186	C-2592-150300-0	Mount/demount head protector	197	B-017-040301-0	Cross head screw M4*30
187	B-007-100161-0	Hex socket head screw M10*16	198	CX-259-240000-0	Mount/demount head handle protect cover
188	B-014-100551-0	Hex socket head bolt M10*55			

13.4 Complete Right help arm





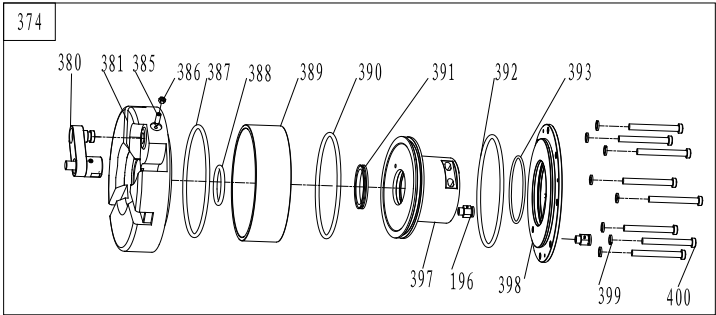
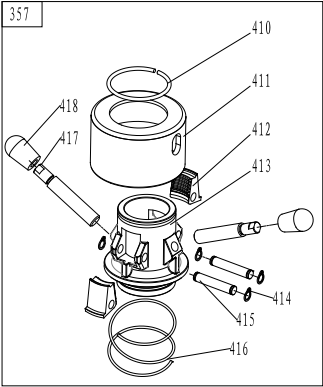
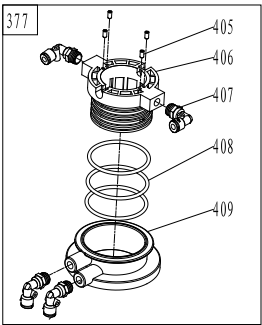
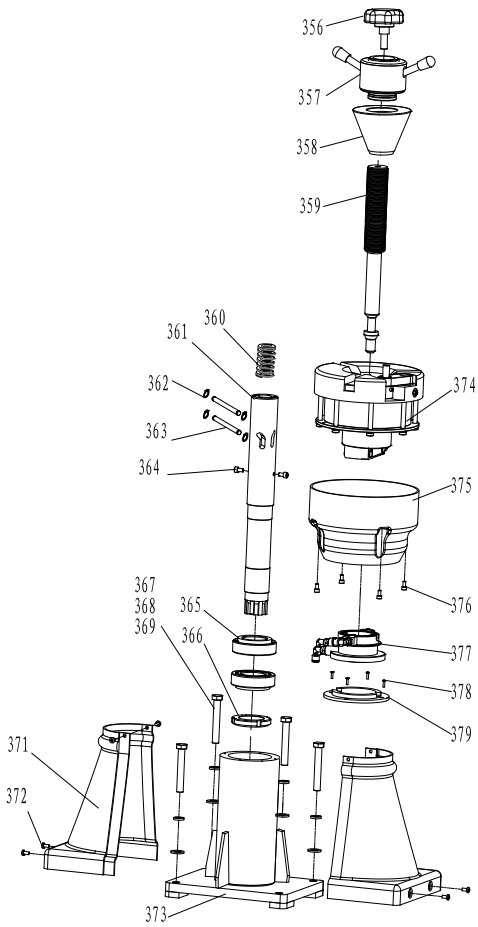




201	B-014-161001-0	Hex socket head screw M16*100	254	S-010-010804-0	Quick unionφ4-1/8
202	CX-200-140000-0	Big washer	255	C-259-191400-0	Tyre pressing cylinder complete
203	CX-259-200500-0	Rotating sleeve			
205	B-001-160001-0	Self-locking nut M16	257	CX-259-190600-0	Tyre pressing rod
206	CX-259-200000-0	Complete Vertical board			
207	B-014-100301-0	Hex socket head bolt M10*30			
208	B-040-102020-1	Flat washer M10	260	B-040-083030-1	Big flat washer M8
209	B-001-100001-0	Self-locking nut M10	261	B-010-060161-0	Hex socket head screw M6*16
210	CX-259-200600-0	Complete Support arm	262	B-014-120551-0	Hex socket head bolt M12*55
			263	B-004-160001-0	Hex thin nut M16
212	C-056-170000-0	Support	264	C-238-200500-0	Pulley 238
213	CX-259-210700-0	Protect cover 2	265	CX-259-191600-0	Pulley pin
214	B-010-060101-0	Hex socket head screw M6*10	266	S-040-061904-2	Bearing 61904-2RZ
215		Complete Right help arm raise-fall	267	C-259-190900-0	Tyre pressing roller support board
216	B-004-100001-1	Hex nut M10	268	B-007-100201-0	Hex socket head screw M10*20
217	B-040-102020-1	Flat washer M10	269	B-055-130001-0	Circlip for shaftφ13
218	B-014-100301-0	Hex socket head bolt M10*30	270	CX-259-191100-0	Support board pin
219		Complete pull arm	271	B-004-120001-1	Hex nut M12
220	B-010-060101-0	Hex socket head screw M6*10	272	CX-259-191000-0	Complete Connection rod
221	CX-259-210600-0	Protect cover 1	273	CX-259-191200-0	Connection rod pin
225	CX-259-210000-0	Complete Guide track	274	B-055-120001-0	Circlip for shaft φ11
226	CX-259-210900-0	Protect cover limit board	275	B-010-060301-0	Hex socket head screw M6*30
227	CX-259-210800-0	Protect cover connection block	276	CZ-259-191500-0	Elastic block
228		Raise-fall sleeve(left)	277	CX-259-190700-0	Tyre pressing arm connection rod board 2
229	B-001-100001-0	Self-locking nut M10	278	CX-259-190100-0	Raise-fall support board complete
230	C-200-560000-0	Motor rubber washer	279	CZ-259-190500-0	Friction block
231	B-014-100251-0	Hex socket head bolt M10*25	280	B-010-060161-0	Hex socket head screw M6*16
232		Raise-fall sleeve(right)	281	CX-259-190200-0	Complete Hex sleeve
233	B-001-140001-0	Self-locking nut M14	282	CX-259-190400-0	Tyre pressing arm connection rod
234	B-014-140501-0	Hex socket head bolt M14*50	283	B-010-060101-0	Hex socket head screw M6*10
235		Complete Tyre pressing rod	284	B-004-080001-1	Hex nut M8
238		Complete locking cylinder	285	B-014-080351-0	Hex socket head screw M8*35
239	B-010-080351-0	Hex socket head screw M8*35	286	CX-259-190300-0	Hex sleeve locking board
240	B-014-120351-0	Hex socket head bolt M12*55	287	C-221-220100-0	pin
241	B-004-120001-1	Hex nut M12	289	S-012-010804-0	Quick unionφ4-1/8
242	CX-259-211100-0	Guide track block	290	B-010-060251-0	Hex socket head screw M6*25
243	B-014-100251-0	Hex socket head bolt M10*25	291	C-221-400000-0	Tension spring
244	C-259-210500-0	Right help arm cylinder complete	292	B-017-050351-0	Hex socket head screw M5*35
245	B-055-150001-0	Circlip for shaft φ15	293	S-010-010804-0	Quick straight union φ4-1/8
246	C-259-211000-0	Cylinder fixed pin	294	CX-259-210401-0	Locking cylinder cover
247	B-001-200001-0	Self-locking nut M20	295	S-005-016055-0	V-seal 24*16*5.5
250	CX-259-191300-0	Cylinder upper cover	296	S-000-038255-0	O-seal 38.7*2.65
251	B-017-040101-0	Cross head screw M4*10	297	CX-259-210401-0	Locking cylinder piston rod
252	B-014-080251-0	Hex socket head screw M8*25	298	C-259-210404-0	Cylinder piston
253	B-040-081715-1	Flat washer M8	299	S-000-010265-0	O-seal 10*2.65

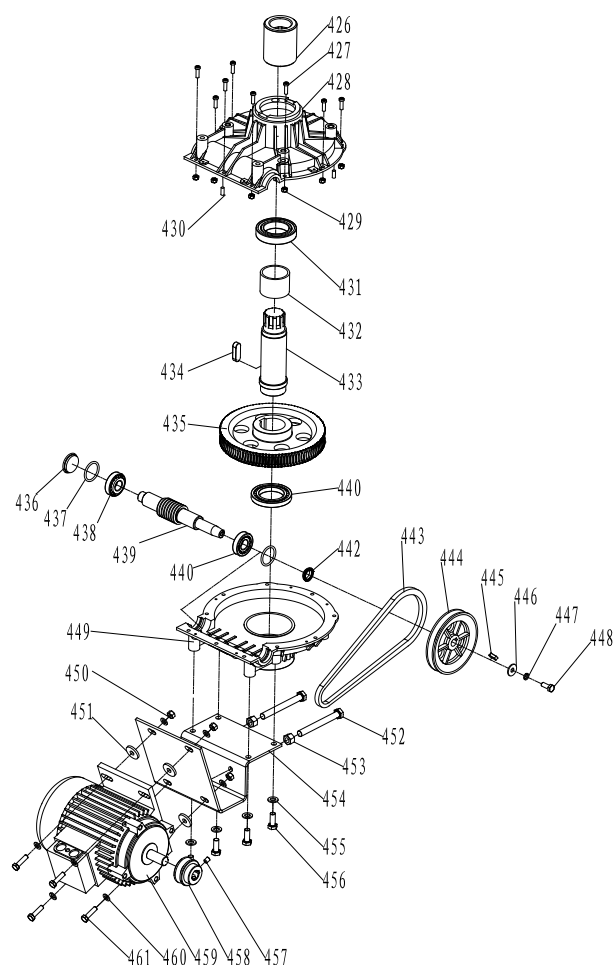
300	S-005-030065-0	V-seal 30*40*6.5	327	B-017-040301-0	Cross head screw M4*30
301	B-001-120001-0	Self-locking nut M12	328		Complete Raise-fall cylinder adjust valve
302	C-259-210405-0	spring	329	B-017-040501-0	Cross head screw M4*50
304	C-259-210402-0	Locking cylinder barrel	330	B-004-040001-1	Hex nut M4
306	CX-259-230100-0	Control box	331		Right help arm locking control
			332		Tyre pressing roller control valve complete
			333		Tyre pressing rod locking control complete
309	B-010-080251-0	Hex socket round head screw M8*25	336	S-012-010804-0	Quick union ϕ 4-1/8
310	CX-259-230300-0	Control valve connection arm	337	S-030-786521-0	2-position 5-way rotary knob valve
311	C-259-230401-0	Connection rod	338	S-023-010801-6	Metal muffler
312	C-259-201014-0	Metal zipper	339	S-030-798321-TB	2-position 3-way rotary knob valve
313	B-010-120351-0	Hex socket round head screw M12*35	340	S-010-010408-0	Quick union ϕ 8-1/8
314	CX-259-230402-0	Connection rod arm shaft	341	S-030-010818-0	Handle valve
315	S-012-010408-0	Quick union ϕ 8-1/4	342	S-030-010414-0	Pneumatic valve
316	S-011-010414-0	Straight female socket union	343	S-010-500004-0	Quick straight union ϕ 4-M5
317	CX-001-000001-	Rubber hose with clip	344	C-221-680000-A	Seat with holes
318	CX-259-230500-0	Connection rod handle rotating shaft	345	S-038-000030-1	Pressure gauge
319	C-203-251100-0	Hose hook	346	S-010-010408-0	Quick straight union ϕ 8-1/8
320	CX-259-230600-0	Connection rod arm cover	347	S-012-010408-0	Quick union ϕ 8-1/4
321	CZ-259-230403-0	Connection handle cover	348	B-007-180081-R	Hex socket plug ϕ 8-1/8
322		Complete Pressure detecting	349	C-221-690100-A	Button valve
323	B-017-040501-0	Cross head screw M4*50	350	C-221-690200-A	Button rod
324	B-004-040001-1	Hex nut M4	351	S-000-040200-0	O-seal ϕ 4*2
325	CX-259-230200-0	Pressure gauge box support	352	C-221-690400-A	Button spring
326	CX-259-230100-0	Control valve panel	353	C-221-690300-A	Button

13.5 Complete Installation base



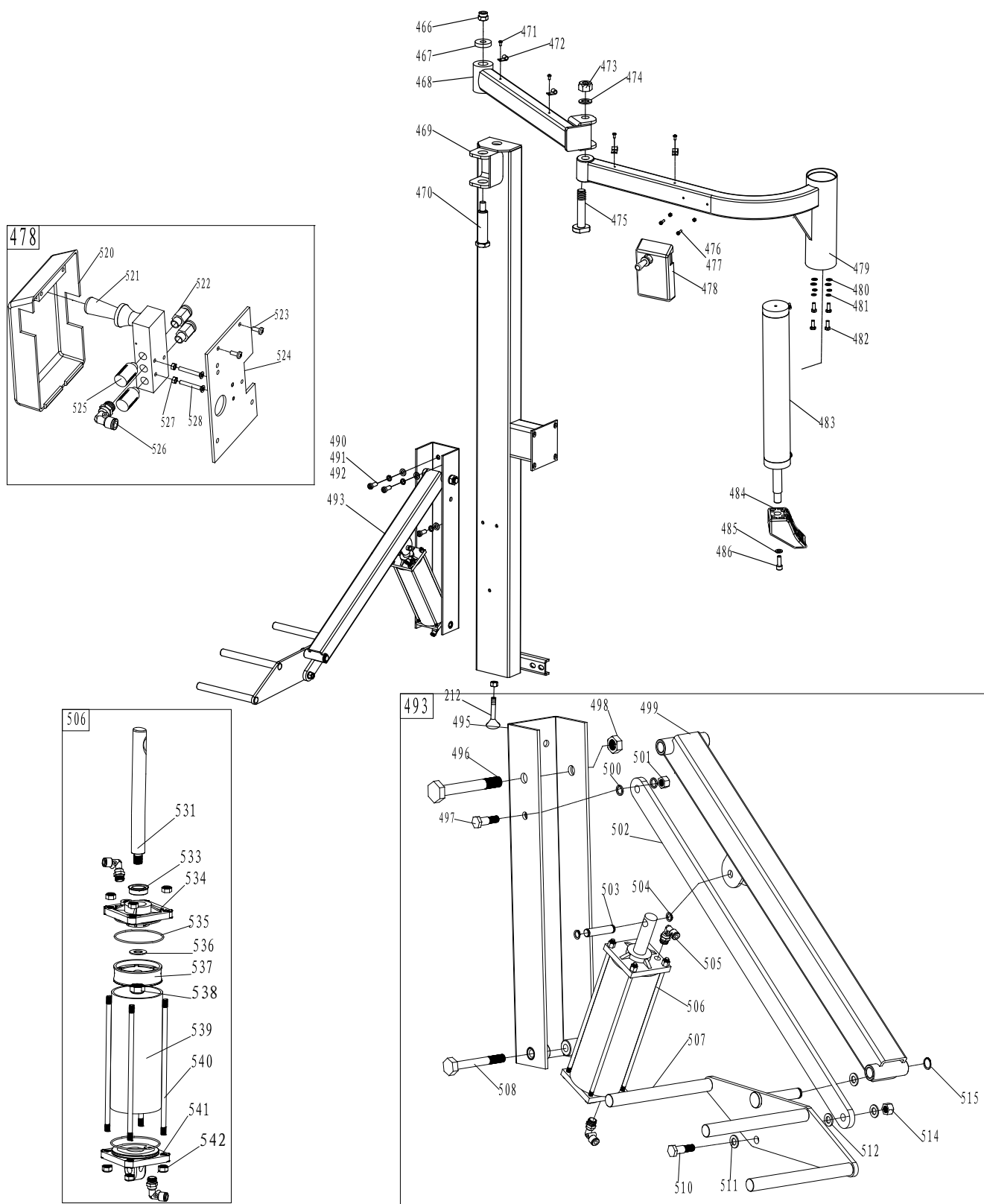
356	C-238-201501-0	Adjust handle	376	B-010-050121-0	Hex socket head screw M5*12
357	CA-060-000239-0	Quick release nut assembly	377		Complete rotating valve
358	C-239-333801-0	No.1 cone block	378	B-017-040141-0	Cross head countersunk screw M4*14
	C-239-333802-0	No.2 cone block	379	CX-259-130900-0	Dust cap
	C-239-333803-0	No.3 cone block	380	CX-259-131900-0	Adjustable assembly
	C-239-333804-0	No.4 cone block	381	CX-259-130100-0	Installation base cover
359	CX-259-130700-0	Locking center shaft	385	B-007-050201-0	Hex socket head bolt M5*20
360	C-259-131905-0	Retainer spring	386	B-004-050001-1	Hex nut M5
361	CX-259-130600-0	Drive shaft	387	S-000-132355-0	O-seal $\phi 132.5 \times 3.55$
362	B-055-080001-0	Retaining ring(shaft) $\phi 8$	388	S-000-048355-0	O-seal $\phi 48.7 \times 3.55$
363	CX-259-130500-0	Fitting pin	389	C-259-130300-0	Installation base cylinder
364	B-010-060161-0	Hex socket head bolt M6*16	391	S-000-059262-0	O-seal 59.99×2.62
365	S-040-033109-0	Bearing 33109	392	S-000-093533-0	O-seal $\phi 90 \times 5.3$
366	B-004-450001-1	Nut M45*1.5	393	S-000-128533-0	O-seal $\phi 128 \times 5.33$
367	B-014-120801-0	Hex socket head screw M12*80	397	C-259-130400-0	Installation base piston
368	B-050-080000-0	Spring washer M8	398	CX-259-130200-0	Installation base cylinder lower cover
369	B-040-081715-1	Flat washer M8	399	B-050-080000-0	Spring washer M8
371	C-259-131800-0	Installation base lower cover	400	B-010-080801-0	Hex socket head screw M8*80
372	B-024-050101-1	Cross head screw M5*10	405	B-007-040101-0	Hex socket head screw M4*10
373	C-259-130800-0	Reinforce base	406	CX-200-430100-0	Rotating valve casing
374		Complete installation base cylinder	407	S-012-010806-0	Quick union 1/8-6
375	C-259-131700-0	Installation base cover	408	S-000-059262-0	O-seal 59.99×2.62
409	CX-200-430200-0	Rotating valve mandrel	414	B-055-080001-0	Circlip for shaft $\phi 8$
410	B-055-500001-0	Steel cable retaining ring (shaft) $\phi 50$	415	CX-239-170600-0	Quick release nut adjusting pin
411	CX-239-170400-0	Quick release nut cover	416	C-239-170500-0	Compression spring
412	CX-239-170300-0	Quick release nut block	417	CX-239-170800-0	Handle rod
413	C-239-170100-0	Quick release nut body	418	C-239-170900-0	Quick release nut rubber

13.6 Complete power input



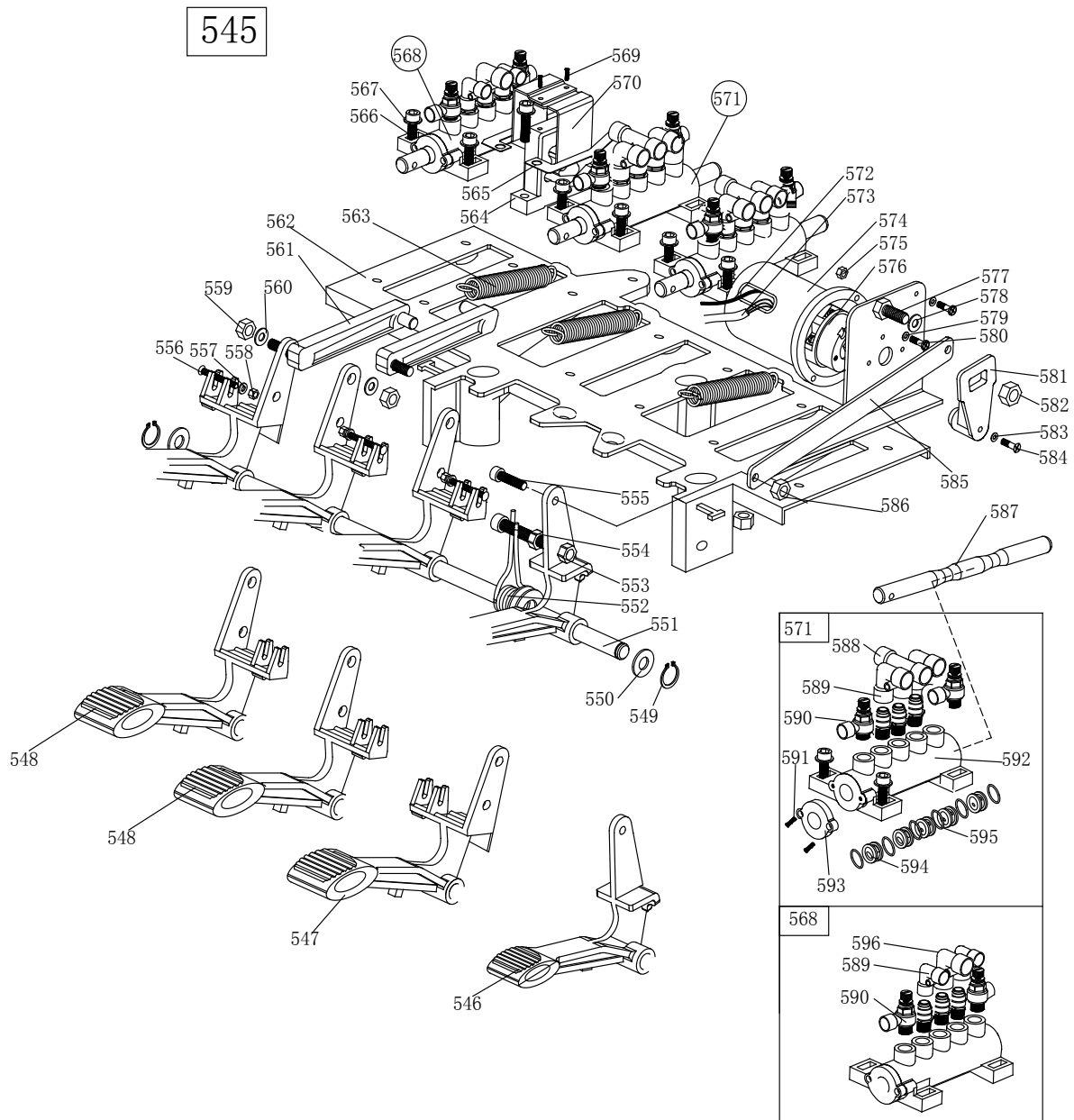
426	CX-259-131000-0	Coupling
427	B-010-080801-0	Hex socket head screw M6*20
428	C-300-320301-0	Gearbox upper cover
429	B-001-060001-0	Self-locking nut M6
430	B-060-006020-0	Taper pin 6×20
431	S-040-006010-0	Bearing 6010
432	CZ-200-320600-0	Worm gear shaft spacer
433	C-259-320200-0	Worm gear shaft
434	B-065-014040-0	Flat key14*40
435	C-200-320100-0	Worm gear
436	C-200-320700-0	Oil resistant seal
437	S-000-030355-0	O-seal 30*55
438	S-040-030204-0	Bearing 30204
439	C-200-320400-0	Worm rod
440	S-040-006028-0	Bearing 6208
442	S-005-020080-0	Gearbox seal 20*35*8
443	S-042-000710-0	Tyre changer belt 710
444	C-200-320500-0	Gear belt pulley
446	B-040-083030-1	Big washer
447	B-050-080000-0	Spring washer M8
448	B-014-080251-0	Hex socket head bolt M8*25
449	C-300-320301-0	Gearbox lower cover
450	B-004-080001-1	Hex nut M8
451	C-200-560000-0	Motor rubber washer
452	B-014-121001-0	Hex socket head bolt M12*100
453	B-004-120001-0	Hex nut M12
454	CA-025-025900-0	Complete motor support 259
455	B-040-102020-1	Flat washer M10
456	B-014-100251-0	Hex socket head bolt M10*25
457	B-007-080121-0	Hex socket head bolt M8*10
458	CX-200-330000-0	Motor belt pulley
459	CA-028-380110-5	Tyre changer motor
460	B-040-081715-1	Flat washer M8
461	B-014-080351-0	Hex socket head bolt M8*35

13.7 Complete Left help arm



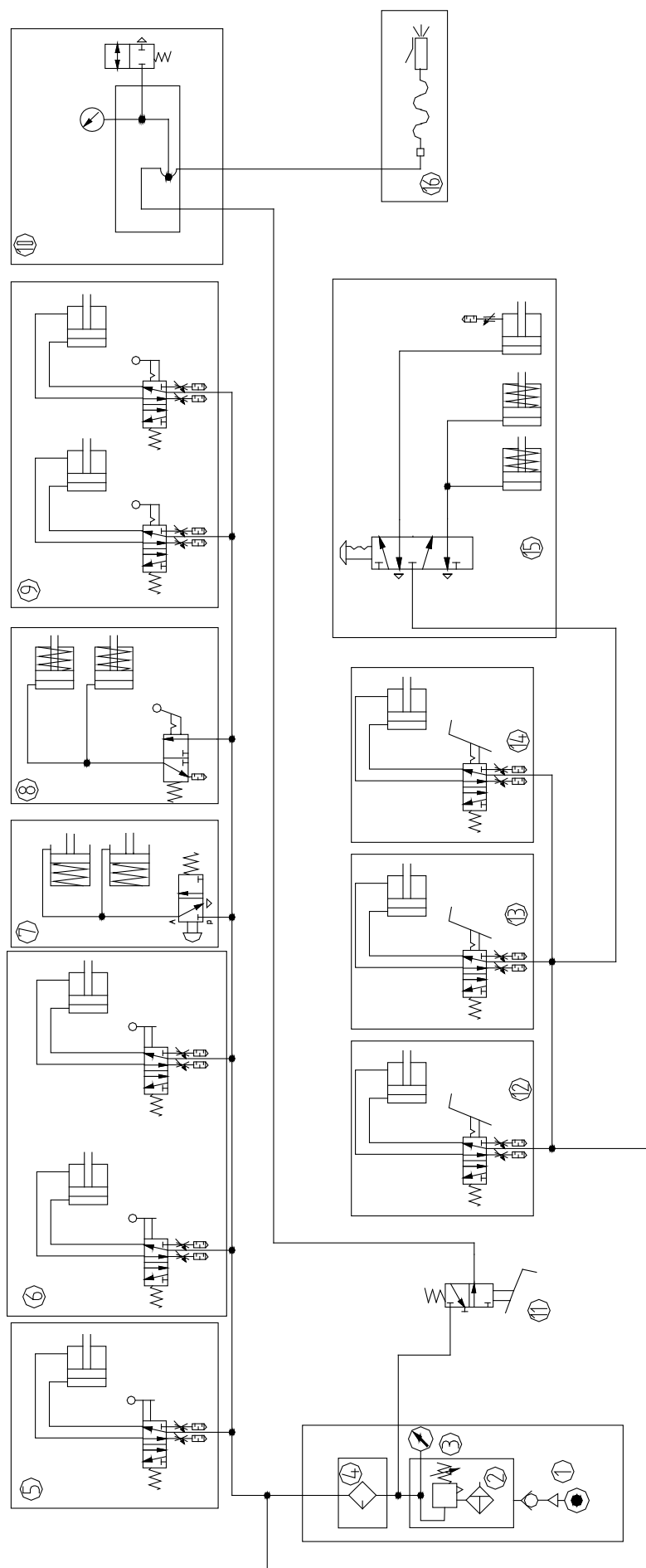
466	B-001-160001-1	Self-locking nut M16	501	B-004-100001-1	Hex nut M10
467	CX-200-140000-0	Big washer	502	CX-OLD-010500-0	Support rod
468	CX-009-020000-0	Pressing arm	503	CX-OLD-010405-0	Rise-fall pin
469	CX-259-270000-0	Complete Arm column	504	B-055-120001-0	Circlip for shaft 12
470	CX-098-030000-0	Pressing arm pin (right)	505	S-012-010806-0	Quick union 1/8-6
471	B-024-050101-1	Cross head screw M5*10	506	CW-105-000001-D	Raise-fall cylinder complete
472	S-038-120406-0	Adjustable wiring fixed button $\phi 6$	507	CX-OLD-010600-0	Tyre lifting board
473	B-001-220001-1	Self-locking nut M22	508	B-014-121001-0	Hex socket head bolt M12*100
474	B-040-223040-1	Flat washer M22	510	CX-OLD-010406-0	Connection bolt
475	CX-036-050000-0	Connection bolt	511	B-040-122020-1	Flat washer M12
476	B-010-050161-0	Hex socket head bolt M5*16	512	B-040-102020-1	Flat washer M10
477	B-004-050001-1	Hex nut M5	514	B-001-100001-1	Self-locking nut M10
478		Complete Handle valve	515	B-055-160001-0	Circlip for shaft 16
479	CX-009-020000-0	Pressing arm	520	C-007-181000-0	Control valve protection cover
480	B-040-081715-1	Flat washer M8	521	S-030-010818-0	Handle valve 4H230L-08
481	B-050-080000-0	Spring washer M8	522	S-011-010806-0	Quick straight union 1/8-6
482	B-014-080201-0	Hex bolt M8*20	523	B-024-040101-0	Cross head screw M4*10
483	CA-005-025900-0	Complete Cylinder (left) 259	524	CX-005-200000-0	Raise-fall switch plate
484	C-056-090100-0	Square tyre pressing block	525	S-023-010801-0	Muffler 1/8
485	B-040-102020-1	Flat washer M10	526	S-012-010806-0	Quick union 1/8-6
486	B-010-100301-0	Hex socket head screw M10*30	527	B-004-040001-1	Hex nut M4
			528	B-017-040301-0	Cross head screw M4*30
488	B-040-102020-1	Flat washer M10	531	CX-OLD-010702-0	Clamping cylinder piston rod 296
489	B-014-100251-0	Hex bolt M10*25	533	S-005-020075-0	V-seal $\phi 20 \times 28 \times 7.5$
490	B-040-102020-1	Flat washer M10	534	C-221-350100-0	Tilting cylinder cover without handle
491	B-050-100000-0	Spring washer M10	535	S-000-063265-0	O-seal $\phi 63 \times 2.65$
492	B-010-100251-0	Hex socket head screw M10*25	536	B-040-122020-1	Flat washer M12
493		Complete Tyre lifting	537	C-221-550000-0	Tilting cylinder piston
495	CX-OLD-010100-0	Tyre lifting support	538	B-004-120071-0	Thin nut M12
496	B-014-161201-0	Hex socket head bolt M16*120	539	CX-OLD-010902-0	Tilting cylinder barrel 233
497	CX-OLD-010406-0	Connection bolt	540	CX-OLD-010703-0	Connection rod bolt 260
498	B-004-160001-1	Hex nut M16	541	C-221-350300-0	Tilting cylinder cover with handle
499	CX-OLD-010400-0	Lifting arm	542	B-001-080001-1	Self-locking nut M8
500	B-040-122020-1	Flat washer M12			

13.8 Complete Pedal



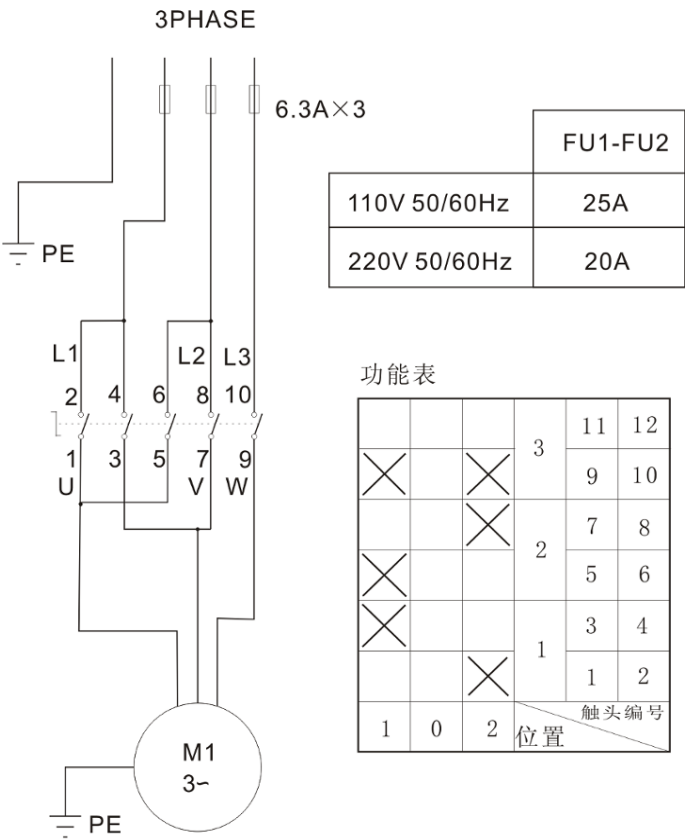
545		Complete 4-pedals assembly 259	572	CZ-000-103150-0	Power supply cable
546	C-228-060400-0	Reverse switch pedal	573	CZ-000-205150-0	Motor cable
547	C-228-060300-0	5-way valve pedal(right)	574	C-200-061400-0	Reverse switch cover
548	C-228-060200-0	5-way valve pedal(left)	575	B-004-040001-0	Nut M4
549	B-055-120001-0	Snap ring Ø12	576	S-060-016000-1	Reverse switch
550	B-040-122520-1	Flat washer Ø12*24*2	577	B-010-060201-0	Hex socket head bolt M6*20
551	CX-200-060700-0	Pedal front shaft	578	B-040-061210-1	Flat washer Ø 6*12*1
552	B-004-080001-0	Nut M8	579	B-040-040000-1	Flat washer Ø 4
553	C-200-370000-0	Pedal twist spring	580	B-024-040161-0	Cross head screw M4*16
554	B-010-080501-0	Hex socket head screw M8*50	581	C-200-530000-0	Reverse switch handle
555	B-010-080201-0	Hex socket head screw M8*20	582	B-001-060001-0	Self-locking nut M6
556	B-024-040301-0	Cross head screw M4*30	583	B-040-030000-1	Flat washer Ø3
557	B-040-040000-1	Flat washer Ø 4	584	B-017-030161-0	Cross head countersunk screw M3*18
558	B-001-040001-0	Self-locking nut M4	585	CX-200-060600-0	Pedal connection rod
559	B-001-080001-0	Self-locking nut M8	586	B-001-080001-0	Self-locking nut M8
560	B-040-081715-1	Flat washer Ø8*17*1.5	587	CX-200-061200-0	5-way valve rod
561	C-200-061300-0	Cam connection rod	588	S-016-010808-2	T-union1/8-2* Ø 8
562	C-221-060100-0	Pedal support board	589	S-012-010806-0	Quick union 1/8- Ø 6
563	C-200-380000-0	Pedal spring	590	S-030-010806-0	Throttle valve
564	C-200-061500-0	Cam	591	B-024-290-121-0	Cross head screw ST2.9*14
565	C-200-810000-0	Cam washer	592	C-200-060901-0	5-way valve(right)
566	B-010-060201-0	Hex socket head screw M6*20	593	C-200-061100-0	5-way valve cover
567	B-040-061210-1	Flat washer Ø6	594	C-200-061000-0	5-way valve rod spacer
568	CW-110-021102-0	Complete 5-way valve(tilting)	595	S-000-012400-0	O-seal 12*20*4
569	B-019-290121-0	Cross head self tapping screw 2.9*12	596	S-012-010808-0	Quick union 1/8- Ø 8
570	CX-200-060500-0	Cam cover			
571	CW-110-020001-0	Complete 5-way valve for bead breaker cylinder			

14. Pneumatic diagram



- | | | | |
|----------------------|--|---|---------------------------------|
| (1) Air supply | (5) Left help arm cylinder | (9) Tyre pressing rod raise-fall cylinder | (13) Center shaft locking pedal |
| (2) Filter | (6) Tyre pressing roller cylinder | (10) Tyre pressure control valve | (14) Tilting arm cylinder pedal |
| (3) Pressure reducer | (7) Right help arm cylinder | (11) Inflating pedal | (15) Horizontal arm handle |
| (4) Oil fog maker | (8) Tyre pressing rod locking cylinder | (12) Tyre lift pedal | (16) Inflating hose |

15. Circuit drawing



Motor circuit drawing