

TIRE CHANGER



INSTRUCTION BOOKLET (English)



WARNING

- This manual is a necessary part of the product. Please read carefully.
- Keep the manual for later use when maintaining the machine.
- This machine can only be used for the designated purposes. Never use it for any other purpose.
- The manufacturer is not responsible for the damage incurred by improper use or use other than the intended purpose.

Precautions

- The equipment can only be operated by qualified personnel with special training. Modification to any components or parts, or use the machine for other purpose without either obtaining the agreement from the producer, or observing the requirement of the instructions may lead to direct or indirect damage to the equipment.
- The equipment should be installed on the stable ground.
- Keep the back panel 0.5M away from the wall for good ventilation. Enough room should be left on both sides for convenient operation.
- Do not put the equipment a place with high temperature or moisture, or near the heating system, water tap, air-humidifier or chimney.
- Avoid lots of dust, ammonia, alcohol, thinner or spraying binder.
- People who are no operating the machines should be kept away when it is used.
- Use appropriate equipment and tools, protective and safety equipment, including eyeglasses, earplugs and working boots.
- Pay special attention to the marks on the machine.
- Do not touch or approach the moving parts by hand during operating.
- Do not remove the safety device or keep it from working properly.
- Before moving the tire changer, contact maintenance personnel.

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1. General Information

1.1 Usage

The Machine is used for demounting, mounting and inflating tires of small vehicles. It features simple operation and high reliability. In addition, it can also be a great help in car repair garage and tire dealers.

1.2 Features

- The equipment can be used for different purposes of demounting, mounting and inflating tires.
- The steel mount/demount head is cast from excellent alloy material with special shape and durable performance. The optional plastic mount/demount head is made from special engineering plastic that has enough intensity and not damage the tire and rim.
- The two clamping cylinder ensures accurate central alignment, so that the tires can be held tightly.
- The layout of the pedals gives convenience to the operating personnel.
- The distance of bead breaker is large enough for big tire.
- Tire lever and lubrication box are easy to reach.

1.3 Specifications

Dimensions

Maximum height: 1650 mm

Length: 880 mm

Width: 850 mm

Noise

Working noise: ≤70dB(A)

Air supply

Working pressure: 8—10 bar

Bead breaker force: 14000 N

Electric specifications

Voltage to choose

| NO. | Voltage | Power | Phase |
|-----|---------------------|--------|--------|
| 1 | AC110V/60Hz | 1.1kW | Single |
| 2 | AC220V/50Hz or 60Hz | 1.1kW | Single |
| 3 | AC380V/50Hz | 0.75kW | Three |
| 4 | AC200V/50/60HZ | 1.1kw | Three |

RPM of turntable: 6~8 n / min

1.4 Applicable Range

Max. wheel diameter: 38"(960mm)

Max. rim width: 13"(330mm)

External Locking Rim diameter: 10"~18"

Internal Locking Rim diameter: 12"~22"

1.5 Working Conditions

Working temperature: -40°C—45°C

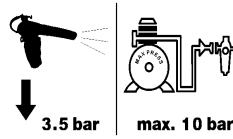
Transport/store temperature: -40°C—55°C

Humidity: 30—95%

1.6 Description of Safety Signs



- To prevent accidents from occurring, make sure to keep hands and other body parts away when fastening the mount/demount head or when the turntable is running.



- The pressure of the compressed air should not exceed 10bar. When inflating the tire, The inflating gun pressure value should be 3.5 bar.

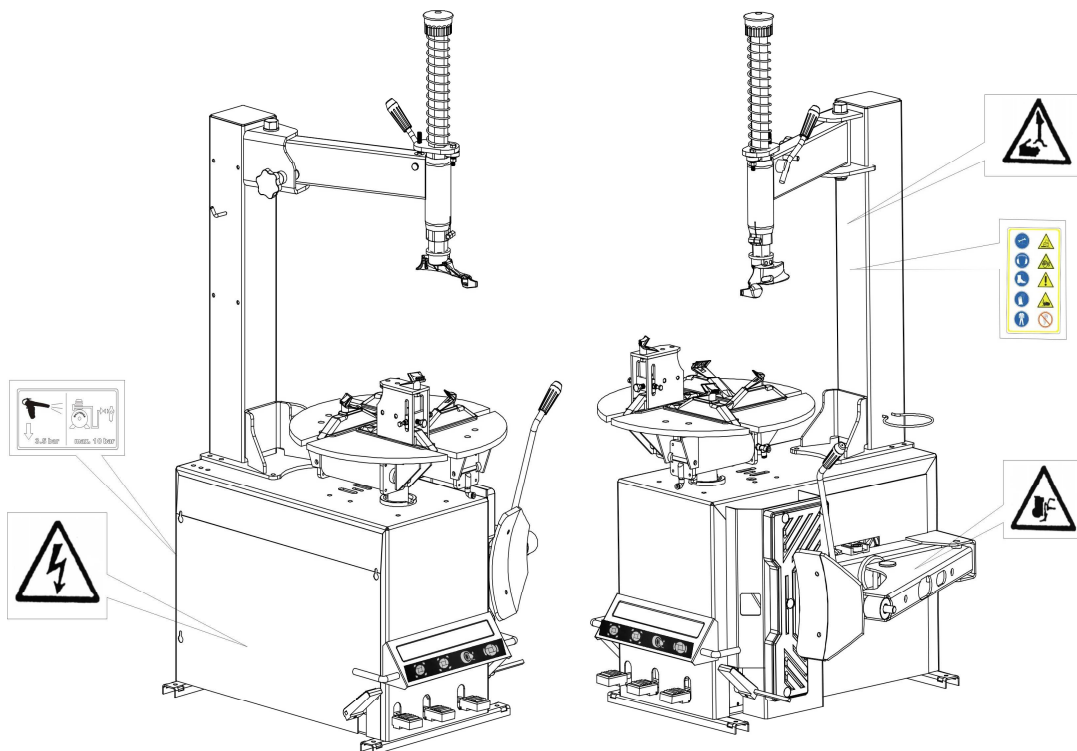


- Caution should be taken when separating the tire from rim. The bead breaker shoe will move rapidly and forcefully when the pedal is depressed. Keep body and materials away from the work area.



- High voltage power! Dangerous!

1.7 Position of Safety Signs



- Please change the safety signs if it gets blurred or lost.
- When one or more safety signs get lost, don't operate the machine.
- The safety signs must be kept within the sight of the operator.

2. Main Structure

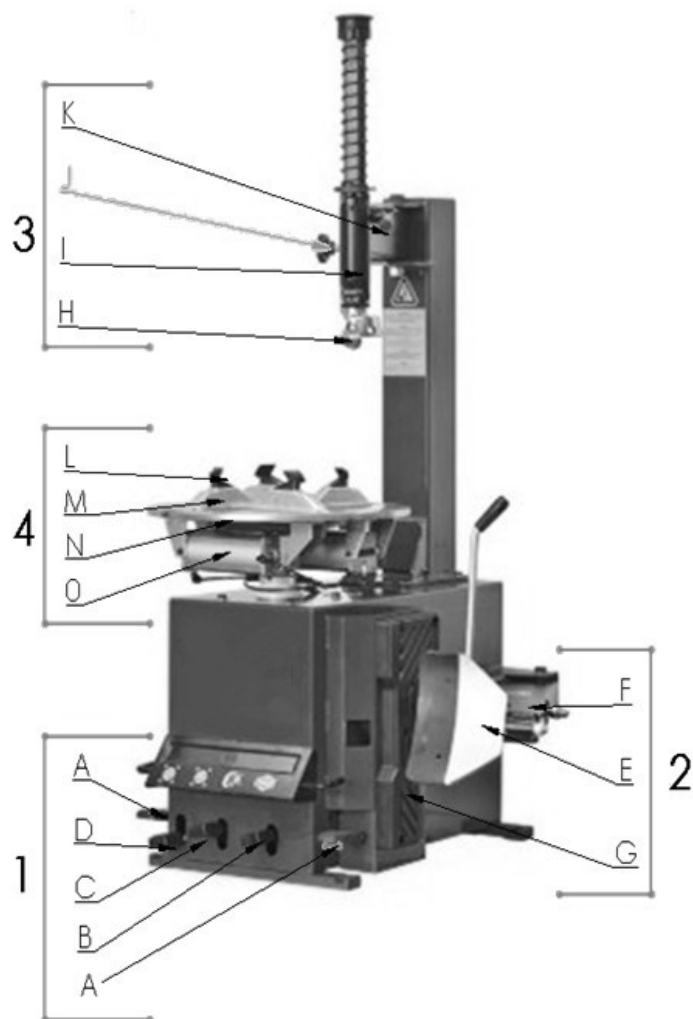


Fig.1

The main operating parts are shown in Fig.1

| 1 | Item | 2 | Item | 3 | Item | 4 | Item |
|---|--------------------------|---|---------------------|---|--------------------|---|-------------------|
| A | Turn table control pedal | E | Bead breaker shovel | H | Mount/demount head | L | Clamping jaw |
| B | Bead breaker pedal | F | Bead breaker arm | I | Swing arm | M | Slide |
| C | Jaw open pedal | G | Rubber buffer | J | Adjusting handle | N | Turntable |
| D | Jaw close pedal | | | K | Locking lever | O | Clamping cylinder |

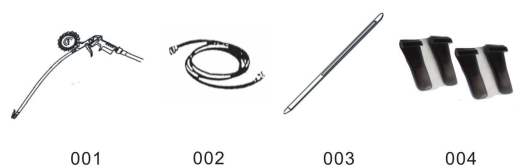


Fig.2

Accessories provided are shown in Fig.2:

- 001- Inflating gun
- 002- Inflator tube
- 003- Tire lever
- 004- Jaw protector

3. Installation and adjusting

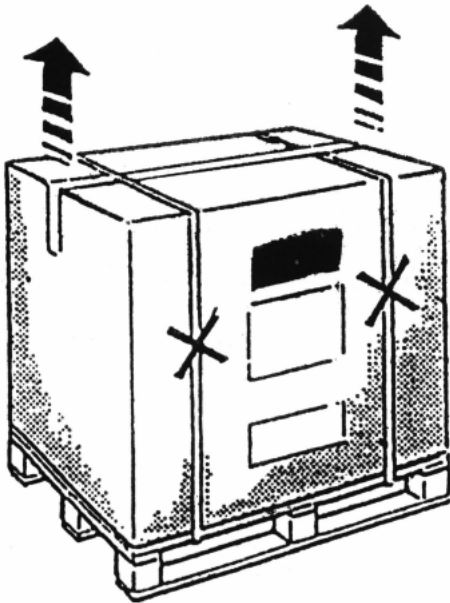


Fig.3

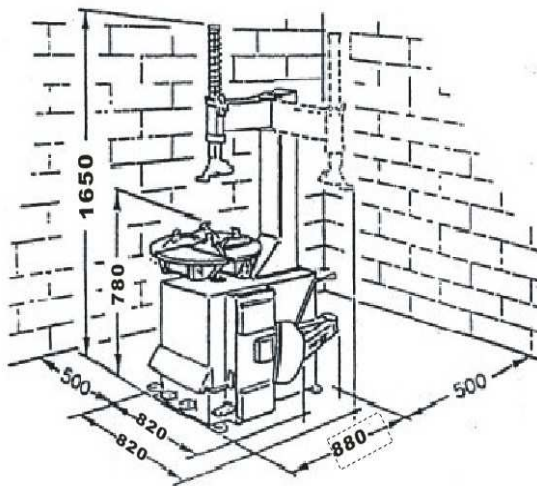


Fig.4

3.1 Unpacking

- Unpack according to the instructions on the package. Remove the packing materials and inspect the machine for possible damage or loss of accessories during transportation. In case of doubt do not use the machine and refer to professionally qualified personnel and/or to the seller.
- Keep the packing materials out of the reach of children. Handle in an appropriate way if the packing material is likely to cause pollution.
- Remove the cabinet, column, swing arm and accessory box fitted on the bottom plate and keep them in safety place.

⚠ NOTE:

A special anti-rust oil applied on the delicate parts may attract dust. Clean it when necessary.

3.2 Location

The place to install the machine should be in accordance with safety regulations:

- The machine should be installed in a place close to the main power source and compressed air system.
- Install the machine on smooth concrete ground or other ground with hard flooring. 4 sets of anchor bolts can be used to fasten the machine onto the ground to avoid vibration and noise.
- Leave enough space for the operation and maintenance of the machine. The space should be no less than 1M in front and on the two sides of the machine, 0.5M behind it so that operation on different parts shall not be hindered.
- If the machine has to be installed outdoors, a protective shelter should be built.
- Never operate the machine in a place with flammable gas.

⚠ NOTE:

For safety and proper operation, keep the machine at least 0.5M away from any wall ((As fig.4)

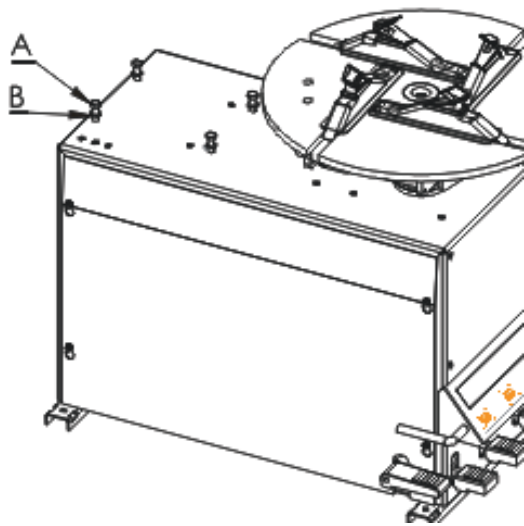


Fig.5-a

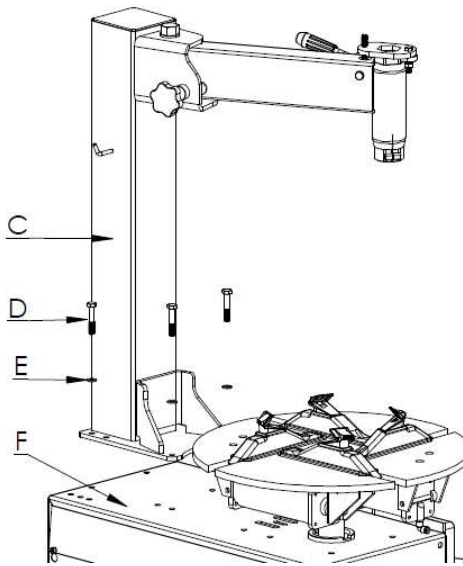


Fig.5-b

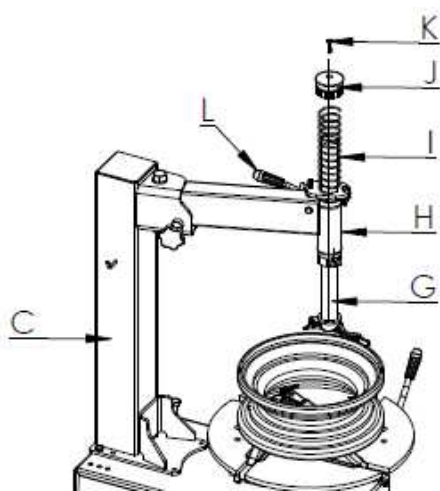


Fig.5-c

3.3 Installation

3.3.1 Column installation

- Screw off bolts from side cover, take off side cover, take off connecting bolts as fig. 5-a..
- As fig. 5-b put column on the frame, locked into mounting holes with M10X55 hexagonal bolts (flat washer included). Fasten with connecting screws.



NOTE:

When column installation, keep column vertical, prevent it from tilted, avoid injury!

3.3.2 Hexagonal column installation

Install hexagonal column G into column hole from downside to upside, lock vertical column with lock lever L. (note: About mounting head installation direction. Place a rim on turntable for reference when installing mounting head; then install return spring I, knob J, screw M10X30. as fig.5-c.



NOTE:

When hexagonal column installation, please lock vertical column with lock lever as it will fall down automatically, take care!

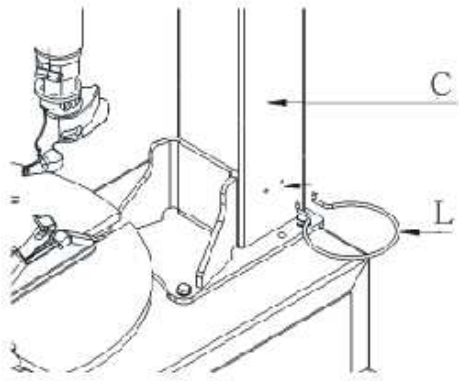


Fig.5-d

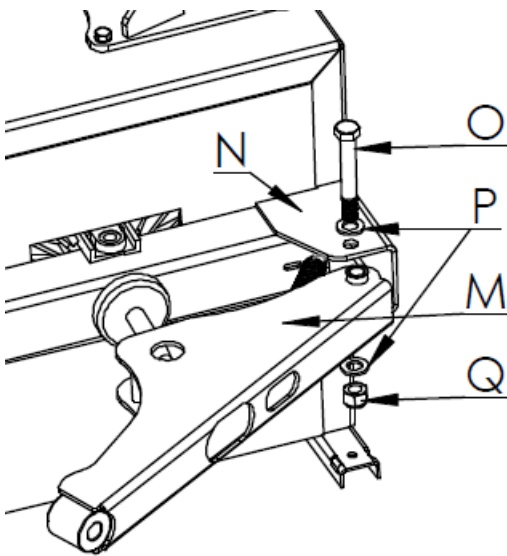


Fig.6-a

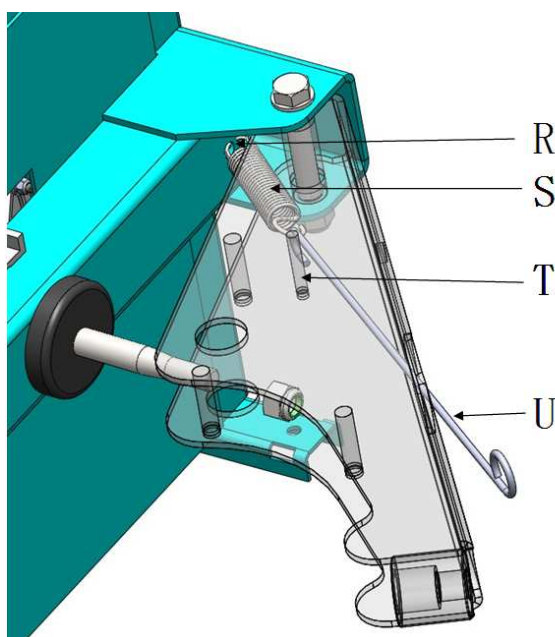


Fig.6-b

3.3.3 Support ring installation

- As fig.5-d, put ring L terminals into $\phi 5$ holes on the right of the post C.

3.3.4 Bead breaker arm installation

- Step 1, Arm installation. As fig.6-a, put arm M into fixed seat on the frame N, install bolt O and washer P, tighten with connecting nuts.
- Step 2, Arm spring installation. As fig.6-b, Hang one end of spring S into the hole, hook another end of spring with U type hook, pull U hook, fix it to T spring pin, take out spring hook U.

 **NOTE:**

When arm installation, take care, avoid hands injured!

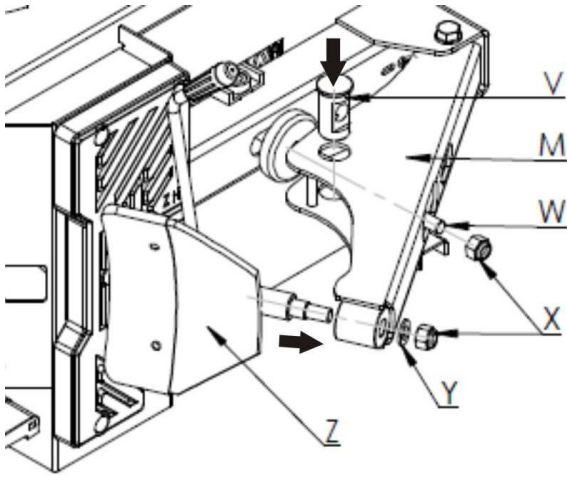


Fig.6-c

- Step 3, Bead breaker cylinder rod casing installation. Pull out breaker arm M till rod casing V can be put into the breaker arm hole (**note:** Make sure the slot side of bead breaker cylinder rod casing V is on outer side. Let arm go back after bead breaker cylinder rod casing installed. (**note:** Insert Piston rod W through rod casing hole) , Fasten screw when arm lay back as fig.6-c.
- Step 4, Shovel installation. As Fig.6- c. Install shovel Z from inner side to outer side, go through the hole on the arm M, then install washer Y, tighten screw X.
- Installation is over.

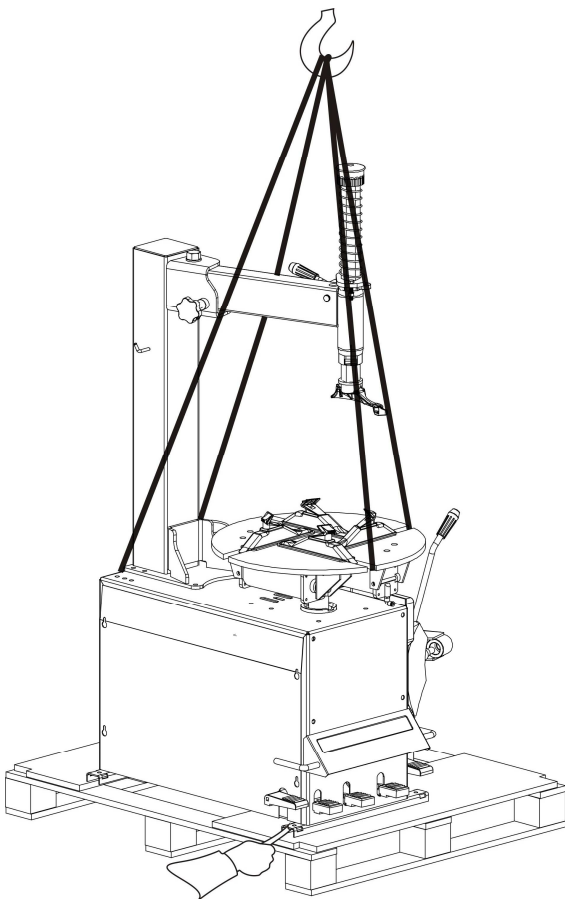


Fig.7

3.3.5 Lifting and installation

Take off screws by spanner (Fig. 7). Use hoist to lift the machine, move pallet, locate the machine.

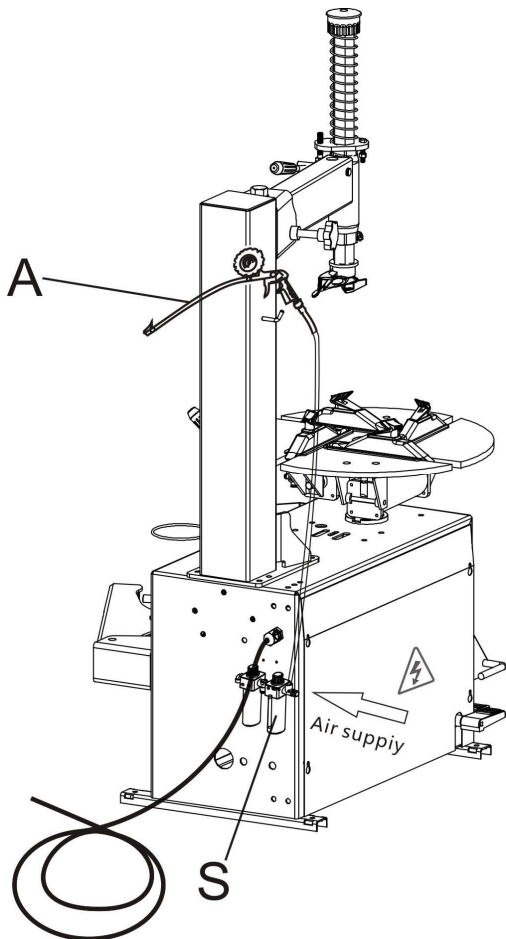


Fig.8

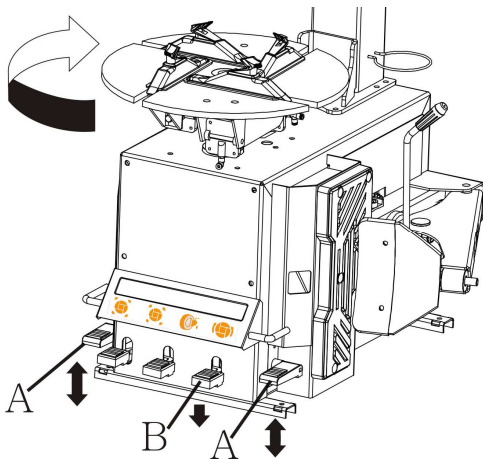


Fig.9

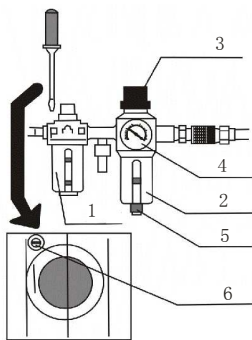


Fig.10

3.4 Power and Air Connections

- All work on the electrical system, including minor operation, must be carried out by professional qualified personnel! Check that the electrical supply voltage is the same as that indicated on the plate of the machine.
- The power socket should be at a place within the sight of the operator. The height should be between 0.6~1.7 meters.
- The machine needs grounding protection.
- Air connection: Connect the inflation gun A to the coupling located to the up of the air filter S; put inflating gun to the hook, on the column(as Fig.8) ; Connect the compressed air supply to the coupling located between the lubricator and the air filter (as Fig.8).



NOTE:

The tire changer is not equipped with overload protection. Please connect power according to the electric diagram included in the User's manual. Otherwise, the manufacturer will not be responsible for any accidents

- Operation test: After power connected, press pedal A (Fig.9), turntable will turn clockwise. This test is very important.
- FRL :Filter, Regulator, Lubricator Assembly(optional)
 - See Fig.10: 1- Lubricator; 2- Filter; 3- Regulator
 - Adjust pressure: There is a button for the regulator 3. When pulled up, the pressure can be increased or decreased by turn it clockwise or counter-clockwise (check the 4-Gauge). After adjusting the operation pressure, press the button down to lock it..
 - The Filter 2 works to filter the water and impurity in the compressed air. When water and impurities run beyond the red line, turn open the ejection valve 5 to release them.
 - The lubricator 1 is used to add a certain amount of lubricant into gas for the moving parts in the cylinder and regulator. Depress pedal B(as fig.9),3~5 times, a drop of lubricant will drop into the cup in the regulator. If it doesn't happen, the adjusting screw 6 can be adjusted.

4. Operation

NOTE:

- *Do not operate the machine before having completing training and qualified for operating the tire changer. Use appropriate equipment, tools and personal protective equipment, such as eye-glasses, ear-plugs and working boots.*
- *When operating the tire changer. Make sure that the power, air sources and the oil level in the oil cup are in accordance with the requirements.*

4.1 Principles

- To avoid damage when mounting and demounting tire, especially the alloy ones, use the special tire lever.
- For easier demounting and better protection of the tire and rim, lubricate the area between the rim and tire bead, where the bead breaker shoe goes in, with industrial lubricant or thick soap solution.
- Pay special attention to rotary direction marked on some flanges or tires.
- Fit the tire on the rim of matched size.
- Check for damages (distortions, surface damages, excessive run out, erosion or overall wear) before demounting.
- Never ignore the mounting and demounting requirements of the special wheel.
- When inflating the tire, make sure the pressure increases in an even way. Check the rim as often as possible.

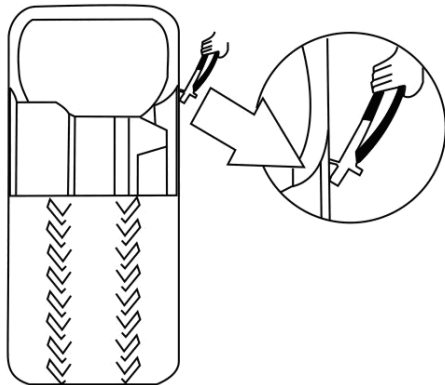


Fig.11

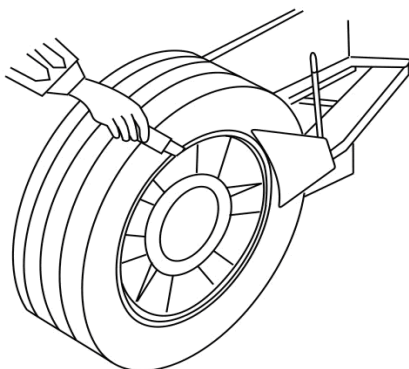


Fig.12

4.2 Demounting Tire

Preparing

- Deflate the tire thoroughly.
- Remove all the substance and weights from the rim (Fig. 11).

Demounting

NOTE:

Lubricate the bead with a brush with lubricant before the shovel touches the bead. Otherwise the tire bead will be worn (Fig.12).

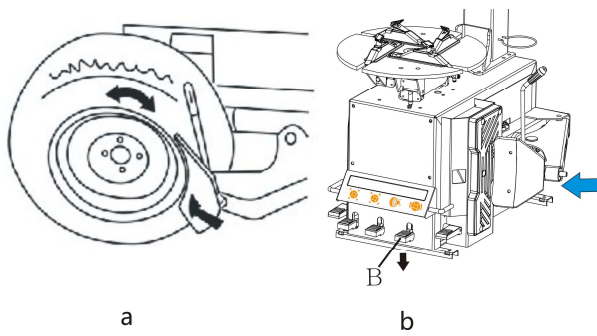


Fig.13

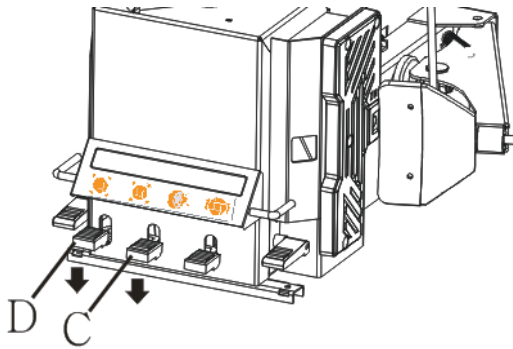


Fig.14

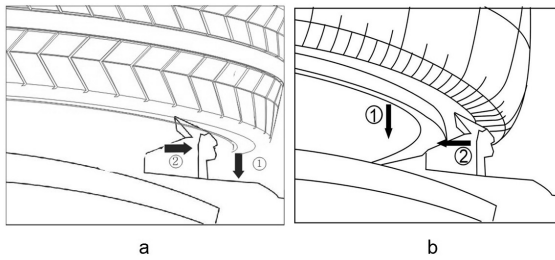


Fig.15

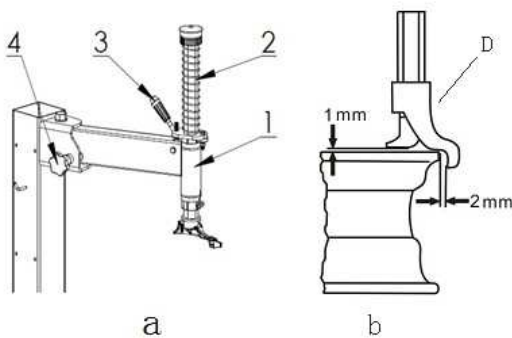


Fig.16

- Place the tire between the bead breaker shovel and rubber pad and keep the shovel between the bead and rim, about 1cm to the bead (Fig.13-a). Depress pedal B (Fig.13-b) to separate the tire from rim.
- Repeat the above steps on other part of the tire to get the tire separated thoroughly from the rim

!NOTE:

When using the bead breaking arm, do not put arms and hands between the tire and the bead breaker

- Press the open control pedal C to prepare the chuck jaws or press D to lock the rim externally (fig.14) .

!NOTE:

Different types of clamping can be chosen in accordance with different rims

- In case of inside clamping, (fig.15-a) , depress pedal D, shrink the jaws together, place the wheel on the turntable and depress pedal C to clamp.
- In case of outside clamping, (fig.15-b) , enlarge the jaws outward(2-3cm away from edge of the rim), and place the wheel on the turntable, press the rim close to the jaws, depress pedal D to clamp it..
- Pull back swing arm and adjust swing arm 1, (as fig.16-a) and hex column (2) , make mounting head against rim, adjust handle 4 ,lock swing arm ,lock hex column by handle 3.Make sure mounting head keep a distance of 1-2mm from outer edge of rim to avoid mounting head scratch rim (as fig.16-b) .

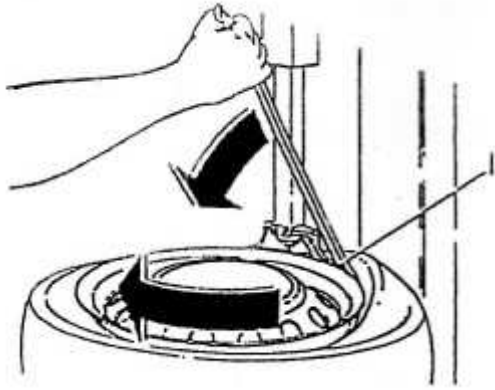


Fig.17

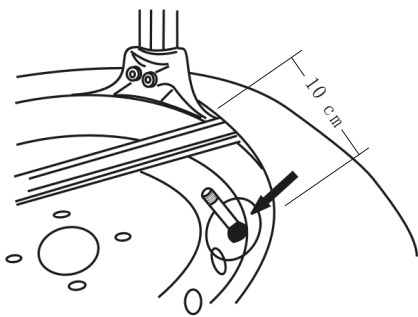


Fig.18

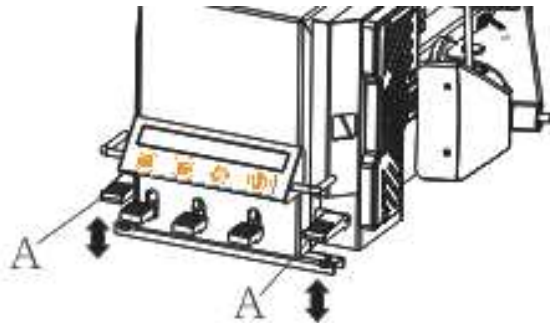


Fig.19

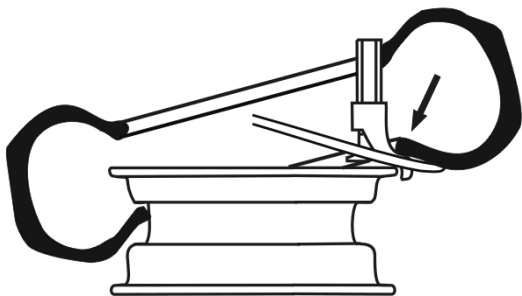


Fig.20

- Before demounting, lubricate tire bead and rim.
- Raise the bead with special lever and hook it onto the tongue of the bead (as fig.17 18) .

⚠NOTE:

If inner tube, to avoid damage of inner tube, keep the position of air valve and mounting head at 10cm distance (as fig.18) .

- Press pedal A (as fig.19) , turntable turn clockwise, until edge of wheel fall off

⚠NOTE:

- *For very tough and low profile wheel, wheel edge is easy to slip off, to avoid this, before turn clockwise of the turntable, may turn anti-clockwise a little to make the turntable back 1-2mm.*
- *If the demounting process is prevented, stop the turntable from turning around, lift pedal A (fig. 19), let the turntable turn anti-clockwise.*

- If there is tube in the tire, remove it.
- Lift wheel, make the bottom edge of wheel as fig.20
- Press pedal A until bottom edge of wheel fall off.
- Push away swing arm, take off wheel, and finish demounting

⚠NOTE:

Keep hands and the rest of human body away from the moving parts of the machine. Never wear necklace, bracelet or loose clothes when operating the machine as it may cause danger

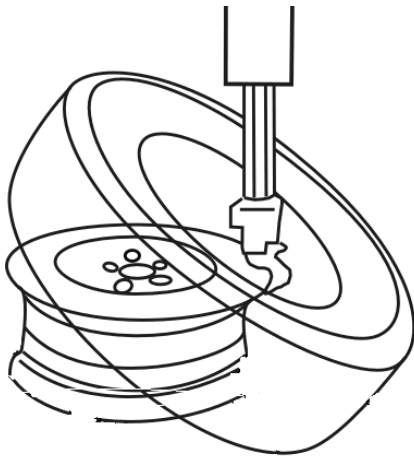


Fig.21

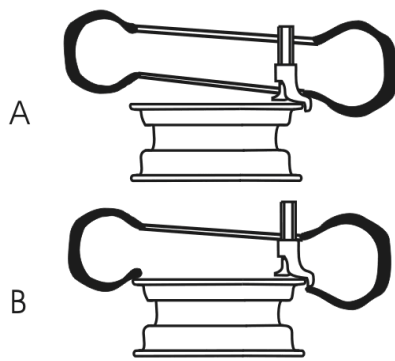


Fig. 22

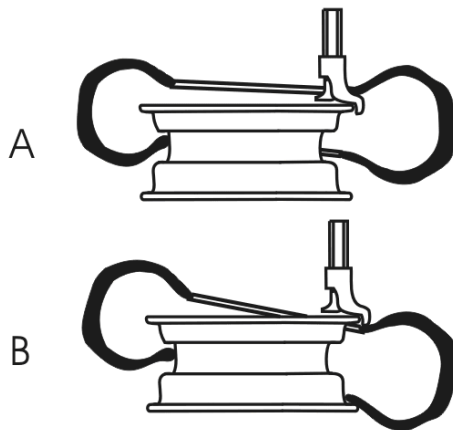


Fig.23

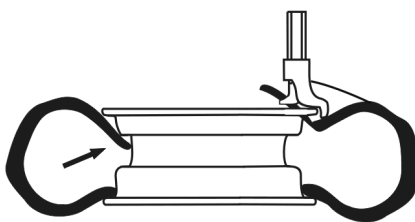


Fig.24

4.3 Mounting Tire



NOTE:

Check the size of tire and rim to see if they match each other.

- Clamp the rim tightly in the same way as demounting tire.
- Use lubricant such as thick soap solution on the tire and the rim.
- Put the bead on the rim with the left side upward, pull back swing arm and place it on its working position. (as fig.21)
- Check the coordination of mount/demount head and rim. Readjust if necessary.
- Adjust relative position between the tire and the mount/demount head to make the tire bead cross the mount/demount head. At the end of the mount/demount head, the tire bead should be placed on the mount/demount head as fig. 22-A; At the beginning of the mount/demount head, the tire bead should be placed under the ball protuberance of the mount/demount head (as fig.22-B) .
- Press down the central part of the tire. Depress the pedal L to turn the turntable clockwise, making the lower tire bead fall into the rim groove completely (as fig.23-A) .
- If a tube needs to be installed in the tire, check first for the possible damages. Round it onto the rim. Make sure to keep the air inlet valve on the tube in the right position throughout the mounting process(as fig.24) .
- Depress the pedal A, to turn the turntable while keeping pressing on the tire. When only 10~15cm is left, slow down to avoid damage of the tire bead. Stop the motor if there is any indication for damage. Lift the pedal A and turn the turntable counter-clockwise. Try again when the tire is back to the original shape.



NOTE:

It is extremely important, for the correct functioning of the machine, that when pedal A is pressed, the chuck rotates in a clockwise direction.

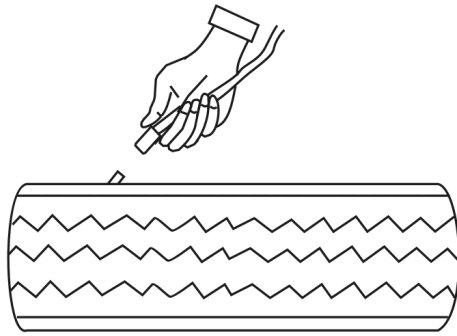


Fig.25

4.4 Inflating Tire

⚠ Danger! !

Inflating can be highly dangerous. Take precautions and pay close attention to the procedures. Check if the compressed air is well connected before inflating!

Inflating procedures are shown in Fig.25. The machine is equipped with a gauge to read the pressure in the tire.

- Connect the outlet of the gun to the air inflation valve.
- Slowly press the switch on the inflating gun for several times during inflation to make sure that the reading on pressure gauge meets the manufacturer's specifications. The pressure should not exceed 3.5 bar.
- If the pressure exceeds the limit, press the button on the gun inflator so that the pressure goes down to what is required.

5. Trouble Shooting

| Malfunction | Cause | Solution |
|---|---|--|
| The chuck does not rotate in any direction. | <ol style="list-style-type: none"> 1. Power plug not inserted 2. Incorrect connection in the plug 3. Electrical supply not suitable | Check correct plugging and its connection.(see cause 2 and 3) |
| Pressing the inverter pedal down causes the chuck to turn in an anti-clockwise direction. | Polarity inverted | Invert the connections in the power plug |
| The chuck turns with insufficient power. | <ol style="list-style-type: none"> 1. Supply voltage wrong 2. Driving belt loosen | <ol style="list-style-type: none"> 1. Check the correspondence between the supply voltage and that on the maker's plate. 2. Tighten the belt |
| The bead breaker does not have sufficient power to break the tire bead. | <ol style="list-style-type: none"> 1. The pneumatic supply is not connected to the machine. 2. Insufficient pressure in the pneumatic system. 3. Pressure reducer is closed or badly adjusted (for versions with this device). | <ol style="list-style-type: none"> 1. Connect the pneumatic supply. 2. Correct the supply pressure. 3. Open or correctly adjust the pressure reducer. |

Other malfunctions should be checked and fixed by Professionally Qualified Personnel.

6. Maintenance



Note:

Only the specialized technician can do the maintenance. Before any maintenance is performed, disconnect the power and keep the plug within the sight of the maintenance personnel. and shut off compressed air, push the air valve switch to “Off” position and depress pedal 16 for 3 or 4 times to bleed the residual compressed air in the machine

To keep the tire change in good condition and to prolong the work life, it is necessary to do regular maintenance according to the instructions on the user’s manual. Otherwise, the normal operation and reliability of the machine will be affected, or personal injury would be caused.

- Keep the machine and working area clean and prevent dust or foreign matter from entering the moving parts.
- Keep the hexagonal column and the moving parts clean and lubricate (clean with diesel as Fig.26) .
- Keep the swing arm clean and lubricate it periodically so that it can move expectably.
- Check the oil level in the sprayer regularly. If the oil level does not reach the second line, fill SAE20 (Fig.27) .
- Clear away the condensed material in the water separator around the sprayer regularly.
- Regularly check and adjust the tension of the belt.
- Check all connecting parts and bolts regularly and tighten them if necessary.
- Check and adjust locker handle periodically, to make sure after locking, mount head and rim keep 2-3m distance.



Fig.26

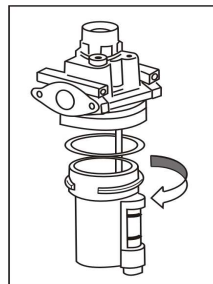


Fig.27

7. Storing and Scrapping

7.1 Storing

When the equipment needs to be stored for a long time.

- Disconnect the power and compressed air.
- Lubricate all the parts: slide block and groove.
- Empty all the oil/liquid cups.
- Cover the equipment with plastic shield.

7.2 Scrapping

When the equipment can no longer be used, disconnect the power and compressed air and dispose in accordance with the local regulations.

8. Spare parts list

This list is only for the reference of the maintenance personnel. The manufacturer will not be held responsible for any use other than the designed purpose.

In case any damage occurs, please contact your dealer or factory with the corresponding codes in the list

| SPARE PARTS LIST | | | | | | | |
|--|---------|----------------------------|------|-----|---------|-----------------------------------|------|
| No. | Code | Description | Qty. | No. | Code | Description | Qty. |
| 2065561 Parts of Column & Arm (Fig. 34) | | | | | | | |
| 101 | 2065562 | Vertical Column | 1 | 119 | 2037801 | Locking block Handle | 1 |
| 102 | 6000146 | Self locknut M20 | 1 | 120 | 6000163 | Retainer ringΦ16 | 1 |
| 103 | 6000141 | Washer Φ20 | 2 | 121 | 6000148 | Lock nut M8 | 1 |
| 104 | 2065641 | Hook | 1 | 122 | 6000121 | Hex nut M8*30 | 1 |
| 105 | 6000126 | Hex nut M6 | 1 | 123 | 2065572 | Hexagonal column | 1 |
| 106 | 3005271 | Adjust Handle | 1 | 124 | 3005188 | Hexagonal column washer | 1 |
| 107 | 2065567 | Swing arm | 1 | 125 | 2052501 | Washer 34*10*5 | 1 |
| 108 | 2005601 | Connect Screw | 1 | 126 | 6000184 | Hex nut M10*25 | 1 |
| 109 | 6000387 | Hex screw M10*30 | 1 | 127 | 2045001 | Supporting ring | 2 |
| 110 | 3005190 | Knob | 1 | 128 | 6000290 | Hex nut M10*60(black half thread) | 4 |
| 111 | 2005401 | Spring | 1 | 129 | 6000134 | Washer Φ10 | 8 |
| 112 | 6000296 | Hex screw M8*45 | 1 | 130 | 6000143 | Lock nut M10 | 4 |
| 113 | 6000139 | Washer Φ8 | 1 | 150 | 2004501 | Complete mounting head | 1 |
| 114 | 6000143 | Self locknut M10 | 1 | 151 | 2004601 | Mounting head | 1 |
| 115 | 6000134 | Washer 10 | 1 | 152 | 2004701 | Contact roller | 1 |
| 116 | 2065573 | Locking plate | 1 | 153 | 2004801 | Contact roller screw | 1 |
| 117 | 6000187 | Hex screw M10*55 | 1 | 154 | 6000225 | Hex nut M10*16 | 2 |
| 118 | 3000501 | Locking block Handle cover | 1 | | | | |
| 2005801 Parts of Turning Table Assembly (Fig. 35) | | | | | | | |
| 201 | 2005901 | Turn table | 1 | 233 | 2007301 | Connecting rod | 4 |
| 202 | 6000129 | Hex nut M16*40 | 1 | 234 | 2007101 | Spacer ring | 1 |
| 203 | 2065256 | Washer | 1 | 235 | 2007001 | Control plate | 1 |
| 204 | 2007501 | Jaw | 4 | 236 | 6000127 | Hex nut M8 | 4 |
| 205 | 2006601 | Big slide | 2 | 250 | 2011701 | Complete clamping cylinder | 2 |
| 206 | 2051801 | Washer 16*30*10 | 2 | 251 | 6000145 | lock nut M16*1.5 | 1 |
| 207 | 6000134 | Washer Φ10 | 4 | 252 | 2012001 | piston rod | 1 |
| 208 | 6000247 | Screw M10*90 | 4 | 253 | 3005157 | Y type seal ring | 1 |
| 209 | 2007401 | brushing | 4 | 254 | 3005074 | T-union IPL6-01 | 2 |
| 210 | 2007601 | Washer 80*70*3 | 1 | 255 | 3004701 | O seal 68.3*3.5 | 2 |
| 211 | 6000196 | RetainingringΦ70 | 1 | 256 | 2012001 | Piston | 1 |
| 212 | 6000148 | Nut M8 | 4 | 257 | 3005250 | O seal 75*5.7 | 2 |

| | | | | | | | | |
|---|---------|---|---|--|-----|---------|-----------------------|---|
| 213 | 6000139 | Flat washer8*22*2 | 4 | | 258 | 6000144 | Self lock nut M12 | 1 |
| 214 | 2012301 | Cylinder pin | 2 | | 259 | 2011801 | Cylinder | 1 |
| 215 | 6000180 | Pin 2*20 | 4 | | 260 | 2012201 | Cylinder rear cover | 1 |
| 216 | 2007701 | Slide support | 2 | | 261 | 6000308 | Screw M5 | 8 |
| 217 | 2006201 | Small slide | 2 | | 262 | 6000194 | Washer Φ5 | 4 |
| 218 | 6000102 | Screw M8*20 | 4 | | 263 | 2012401 | rod | 4 |
| 230 | 2006801 | Turn plate assemble | 1 | | 264 | 2012101 | Cylinder front cover | 1 |
| 231 | 2064227 | Turn plate | 1 | | 265 | 2064398 | Brushing | 1 |
| 232 | 6000128 | Hex nutM8*25 | 4 | | 266 | 3005249 | O seal 16*24 | 1 |
| 2010801 Parts of Rotating Valve Assembly (Fig.36) | | | | | | | | |
| 300 | 2010801 | Complete rotating valve | 1 | | 304 | 2011001 | Rotating valve casing | 1 |
| 301 | 2010901 | Rotating valve core | 1 | | 305 | 6000356 | Union M3*5 | 4 |
| 302 | 3005085 | T-union IPD6-01 | 2 | | 306 | 3005004 | T-union IPC6-01 | 2 |
| 303 | 3004601 | O seal 59.5*3.1 | 3 | | | | | |
| 2064938 Gearbox assemble (Fig.36) | | | | | | | | |
| 307 | 3000801 | Oil ruler | 1 | | 321 | 2064158 | Oil seal cover | 1 |
| 308 | 3000901 | Oil ruler casing | 1 | | 322 | 3004501 | O seal 35*3.1 | 1 |
| 309 | 6000121 | Screw M8x30 | 5 | | 323 | 6000168 | Bearing 30205 | 2 |
| 310 | 2009201 | Upper cover | 1 | | 324 | 2009601 | Worm screw | 1 |
| 311 | 6000166 | Bearing 6010 | 1 | | 325 | 6000337 | Key 6*6*20 | 1 |
| 312 | 2009401 | Gearbox shaft | 1 | | 326 | 3005127 | Seal 25*40*8 | 1 |
| 313 | 6000102 | Screw M8x20 | 1 | | 327 | 6000170 | Key 12*8*50 | 1 |
| 314 | 6000199 | Washer 8 | 1 | | 328 | 6000112 | Screw M6*12 | 1 |
| 315 | 2037201 | Flat washer | 1 | | 329 | 6000101 | Key 12*8*40 | 1 |
| 316 | 2009701 | pulley | 1 | | 330 | 6000204 | Pin 8*16 | 1 |
| 317 | 2009501 | Worm gear | 1 | | 331 | 6000200 | Flat washer 10*30*2 | 6 |
| 318 | 6000167 | Bearing 6208 | 1 | | 332 | 6000181 | Screw M10*160 | 6 |
| 319 | 2009301 | Bottom cover | 1 | | 333 | 2064938 | Complete gearbox | 1 |
| 320 | 6000148 | Lock nut M8 | 5 | | | | | |
| 2012501 Parts of motor assembly (Fig.36) | | | | | | | | |
| 400 | 2012501 | Motor assemble | 1 | | 406 | 6000192 | Screw M8x35 | 4 |
| 401 | 4003101 | Motor 220V 1.2KW 50HZ (standard) | 1 | | 407 | 6000139 | Flat washer 8x22x2 | 8 |
| | 4002801 | Motor 380V 0.75KW 50HZ (optional) | | | 408 | 6000134 | Flat washer 10x20x2 | 3 |
| | 4003201 | Motor 110V 1.2KW 60HZ (optional) | | | 409 | 6000336 | Screw M10 | 4 |
| 402 | 2012701 | Motor pulley | 1 | | 410 | 3003601 | Washer | 6 |
| 403 | 6000130 | Screw M6*10 | 2 | | 411 | 6000199 | Washer Φ8 | 4 |
| 404 | 6000237 | Belt A660 | 1 | | 412 | 6000127 | Screw M8 | 4 |
| 405 | 2012601 | Motor support | 1 | | 413 | 4004444 | Capacitor | 1 |
| 2065595 Part of body assembly (Fig.37) | | | | | | | | |
| 501 | 2065543 | Frame | 1 | | 524 | 6000325 | Flat washer 6*16*2 | 2 |

| | | | | | | | |
|---|---------|--------------------------------|----|------|---------|----------------------------------|----|
| 502 | 2065776 | Foot space frame | 1 | 525 | 6000180 | Pin 2*20 | 2 |
| 503 | 2065580 | Side cover | 1 | 526 | 3005025 | Silencer PSL-1/4 | 4 |
| 504 | 6000431 | Screw M6*16 | 4 | 527 | 3005005 | L union IPC8-01 | 2 |
| 505 | 6000198 | WasherΦ6 | 4 | 528 | 3005066 | L union IPL8-01 | 1 |
| 506 | 6000138 | Flat washerΦ6 | 4 | 529 | 2010701 | Spring | 1 |
| 507 | | | | 530 | 4000201 | Switch | 1 |
| 508 | 3001201 | Five way valve | 2 | 531 | 3005031 | Switch cover | 1 |
| 509 | 3001301 | Spacer | 10 | 532 | 6000125 | Screw M5 | 2 |
| 510 | 3005012 | O seal 7.9*4.0 | 12 | 533 | 3001501 | Rod casing | 2 |
| 511 | 3005004 | L union IPC6-01 | 2 | 534 | 2010501 | Long pedal | 2 |
| 512 | 3005067 | T union IPB8-01 | 1 | 535 | 6000119 | Screw M5*12 | 2 |
| 513 | 6000112 | Screw M6*12 | 4 | 536 | 2037501 | Switch plate | 1 |
| 514 | 2013001 | Rod | 2 | 537 | | | 1 |
| 515 | 6000175 | Screw M8 | 2 | 538 | 6000253 | Screw M6*16 | 5 |
| 516 | 2013101 | Adjust rod | 2 | 539 | 6000325 | Flat washer6*18*1.6 | 5 |
| 517 | 6000232 | Pin 4*18 | 2 | 540 | 3005273 | Rubber buffer | 1 |
| 518 | 2013001 | Bar | 2 | 541 | 3005276 | Small rubber buffer | 1 |
| 519 | 6000143 | Lock nut M10 | 2 | 542 | 3000101 | Rubber buffer piece | 4 |
| 520 | 6000134 | Washer 10*22*2 | 2 | 543 | 4001001 | F.L.R. QYWC-L8 0.05-1.2MPA | 1 |
| 521 | 2009901 | U support | 1 | 544 | 3005074 | L union IPL6-01 | 1 |
| 522 | 2010601 | Short pedal | 3 | 545 | 3005026 | Copper Coupling (F.L.R) | 1 |
| 523 | 2010301 | L support | 1 | | | | |
| 2065790 Parts of bead breaker cylinder (Fig.38) | | | | | | | |
| 600 | 2065792 | Complete bead breaker cylinder | 1 | 609 | 3004401 | O seal 185*5.7 | 1 |
| 601 | 2011201 | Bead breaker cylinder | 1 | 610 | 2011301 | Cover | 1 |
| 602 | 3005066 | T union IPL8-01 | 1 | 611 | 2011601 | Screw | 2 |
| 603 | 6000114 | Screw M6*20 | 12 | 612 | 3005027 | Bearing | 1 |
| 604 | 3005029 | Y seal 170*185*11 | 2 | 613 | 3003401 | Y seal 20*30*7 | 1 |
| 605 | 3005028 | Piston ring | 1 | 614 | 6000140 | Washer 22*29*0.5 | 1 |
| 606 | 2011401 | Piston | 1 | 615 | 6000178 | Retainer ring 30 | 1 |
| 607 | 3004301 | O seal 20*2.4 | 1 | 616 | 3005010 | L union IPL8-02 | 1 |
| 608 | 2011501 | Piston rod | 1 | 617 | 6000233 | Lock nut M6 | 12 |
| 2065574 Parts of bead breaker arm (Fig.38) | | | | | | | |
| 631 | 2038401 | Bead breaker ring | 1 | 636 | 3000701 | Hand cover | 1 |
| 632 | 6000136 | Washer 16*30*2 | 3 | 637 | 2065654 | Shovel cover | 1 |
| 633 | 6000318 | Lock nut M16 | 3 | 638 | 3005134 | Pin | 1 |
| 634 | 2065575 | Bead breaker arm | 1 | 639 | 2065654 | Washer | 1 |
| 635 | 2065652 | 分离铲组焊件 | 1 | 640 | 2064378 | Screw M16*110 | 1 |
| 1002113 Simple help arm (optional) (Fig.39) | | | | | | | |
| F701 | 6000110 | Screw M10*40 | 4 | F716 | 6000128 | Screw M8*25 | 4 |

| | | | | | | | |
|------|---------|-------------------------|---|------|---------|-------------------|---|
| F702 | 6000134 | Washer 10*22*2 | 4 | F717 | 2064204 | Support | 2 |
| F703 | 3003201 | Valve cover | 1 | F718 | 2064221 | Pin for main arm | 1 |
| F704 | 4000301 | Rise fall control valve | 1 | F719 | 2064213 | Complete cylinder | 1 |
| F705 | 6000344 | Screw M16*30 | 2 | F720 | 2064219 | Connecting plate | 2 |
| F706 | 2064210 | Main arm | 1 | F721 | 2039601 | Cylinder cover | 2 |
| F707 | 2064205 | Secondary arm | 1 | F722 | 2064220 | Screw | 4 |
| F708 | 2037401 | Washer 38*10*4 | 1 | F723 | 2064214 | Y seal(90*140) | 1 |
| F709 | 6000226 | Screw M10*16 | 1 | F724 | 3005132 | Y seal 90*75*8.5 | 2 |
| F710 | 6000235 | Adjust handle | 1 | F725 | 2064216 | Piston | 1 |
| F711 | 6000295 | Screw M8*20 | 6 | F726 | 2064215 | Piston rod | 1 |
| F712 | 3005146 | Tire pressing head | 1 | F727 | 6000148 | Self lock nut M8 | 8 |
| F713 | 3005063 | Cover | 1 | F728 | 3005074 | Union IPL 6-01 | 4 |
| F714 | 2064222 | Locking block | 1 | F729 | 6000234 | Hand knob M12*S40 | 1 |
| F715 | 2064203 | Fixing plate | 1 | F730 | 2064215 | Piston rod | 1 |

9. Exploded drawings

9.1 Column assembly

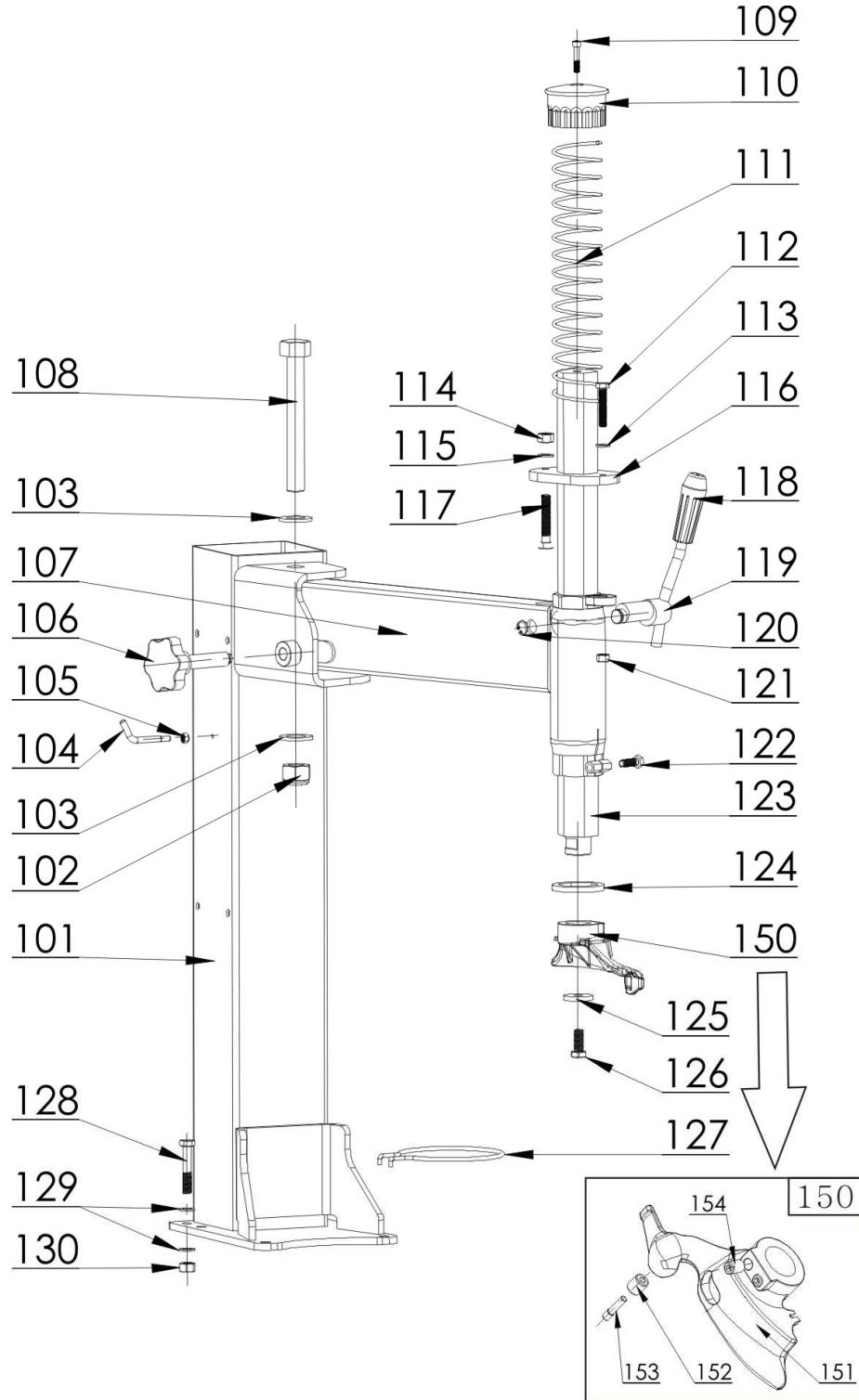


Fig. 34

9.2 Turntable assembly

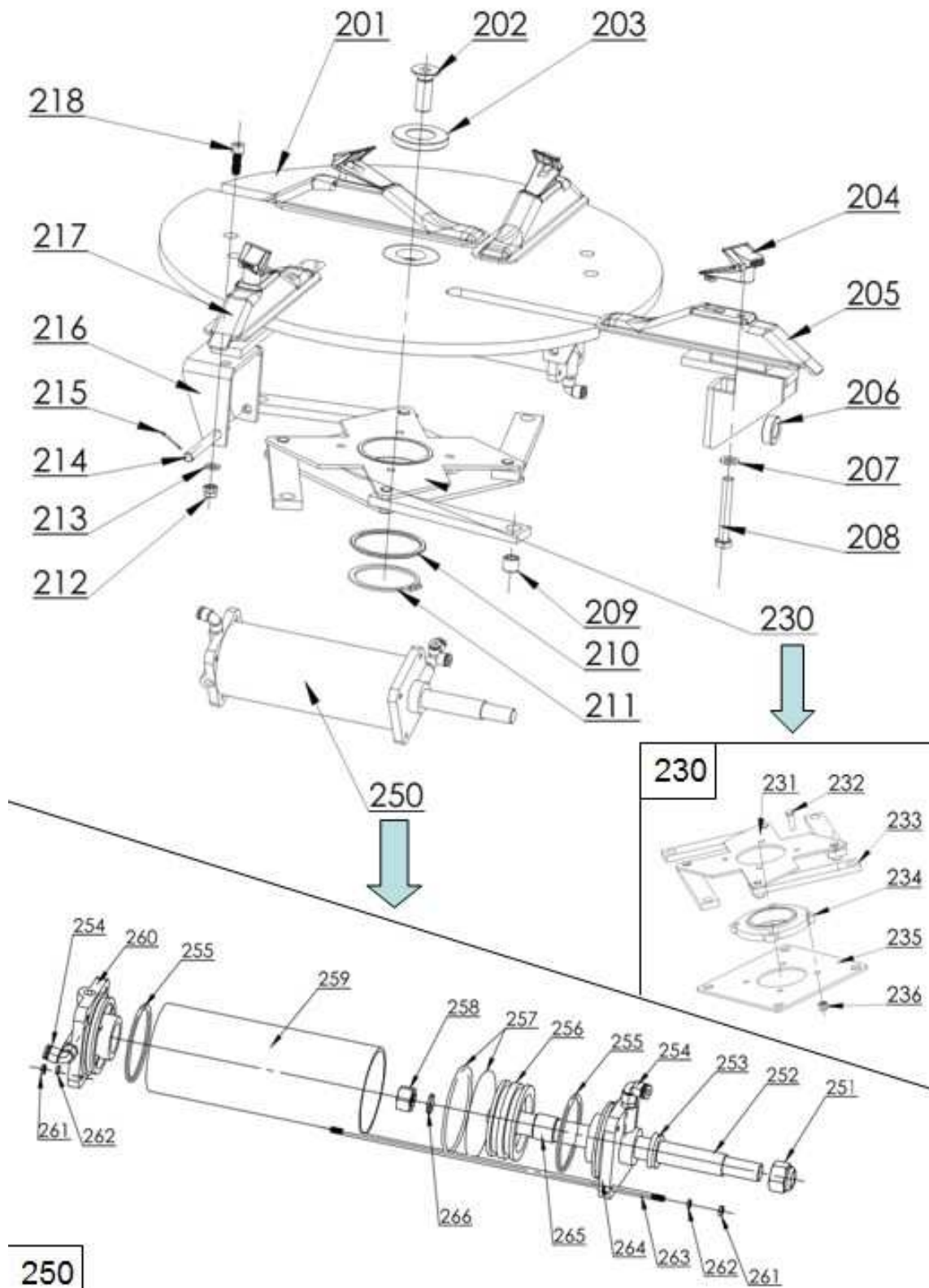


Fig. 35

9.3 Gearbox & motor assembly

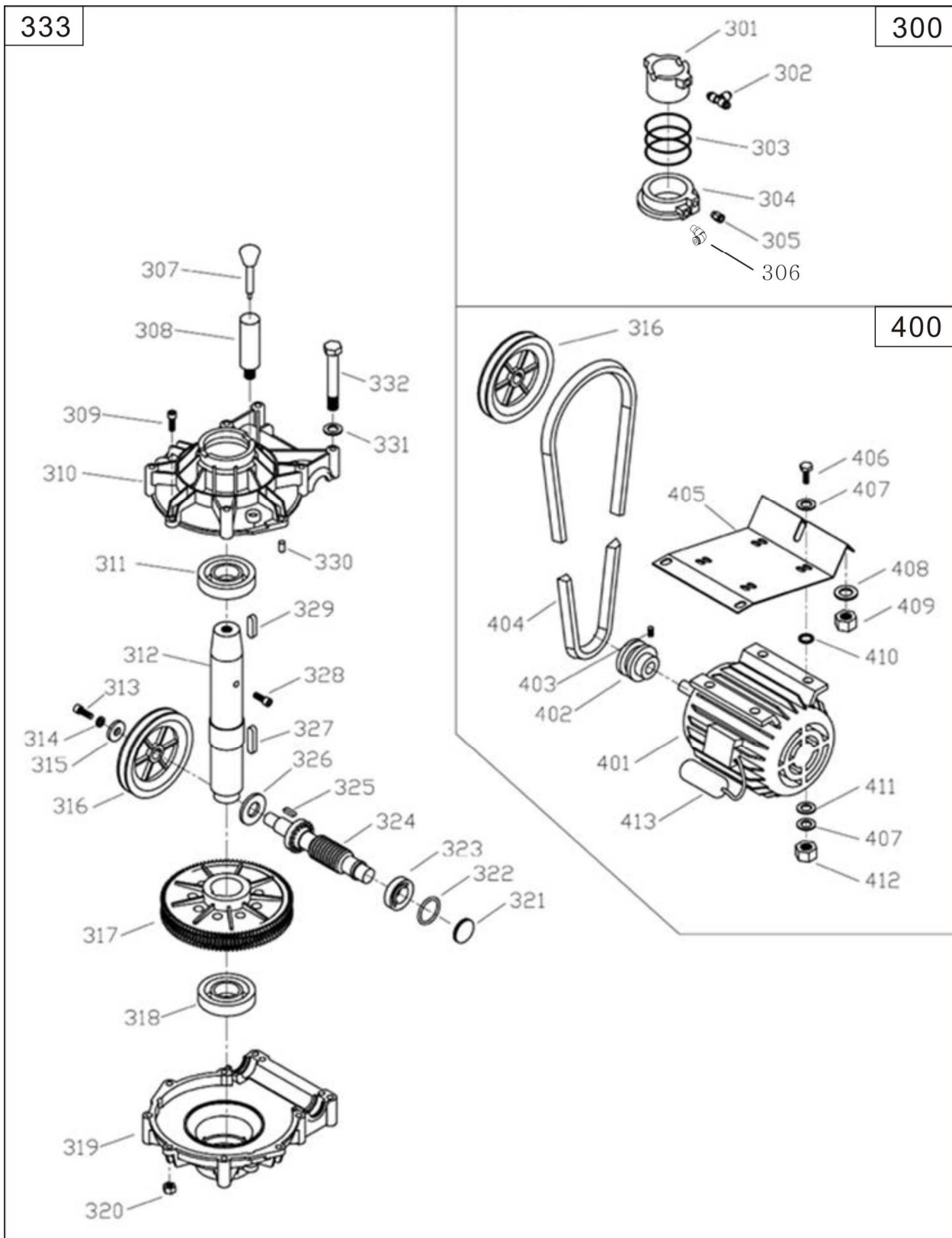


Fig. 36

9.4 Body assembly

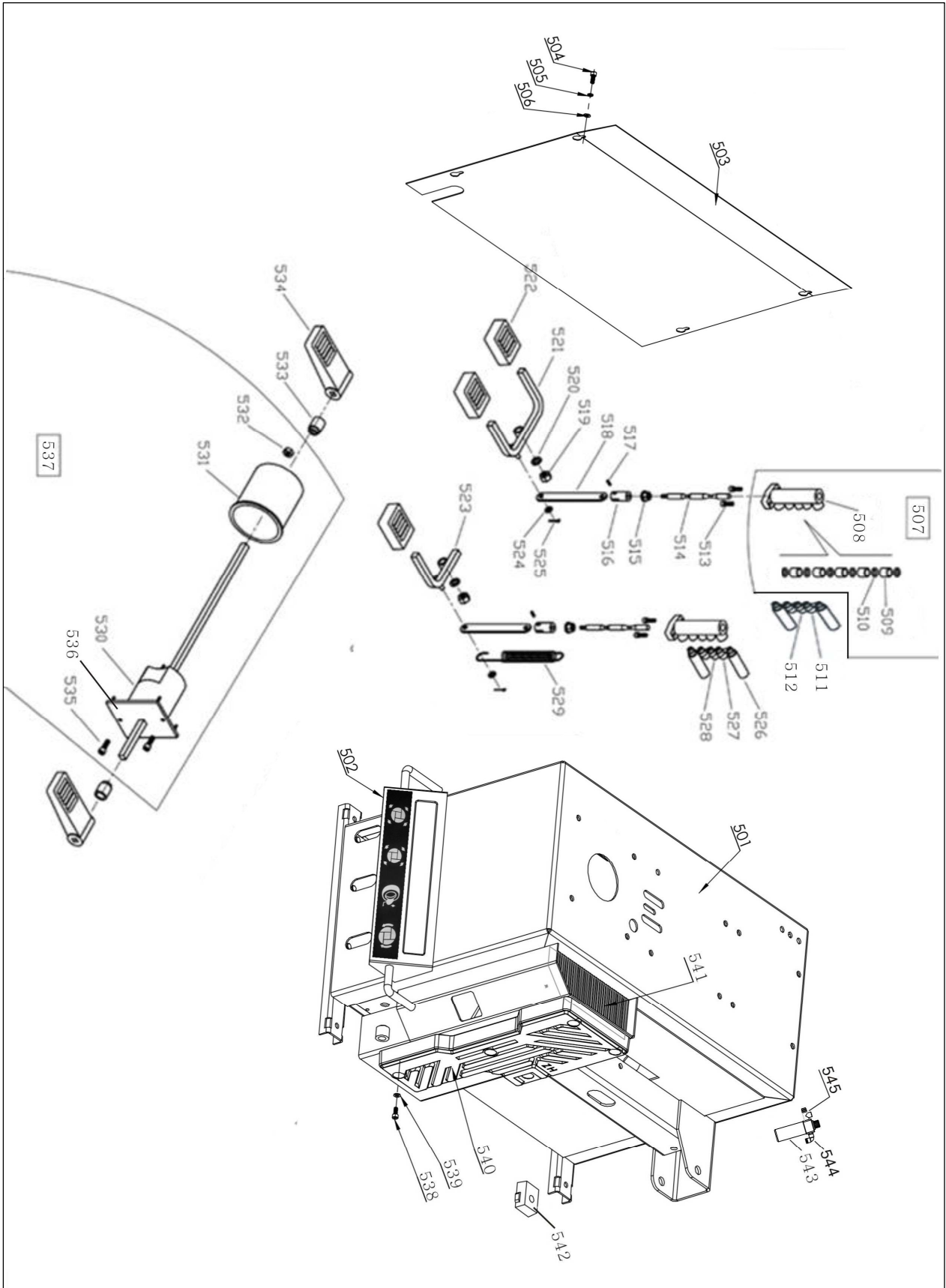


Fig. 37

9.5 Bead Breaker Cylinder & Breaker Arm Assembly

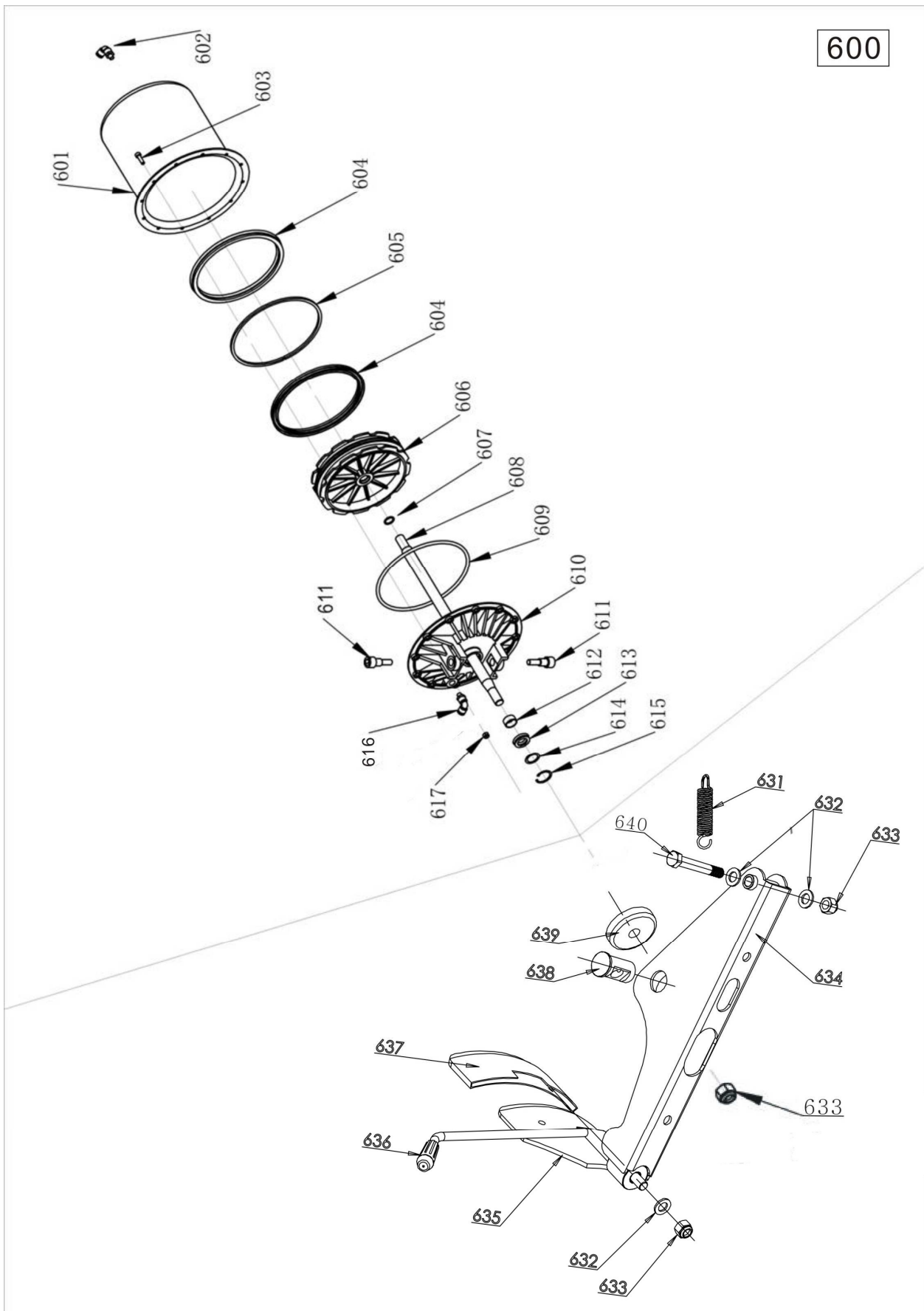


Fig. 38

9.6 Simple help arm (optional)

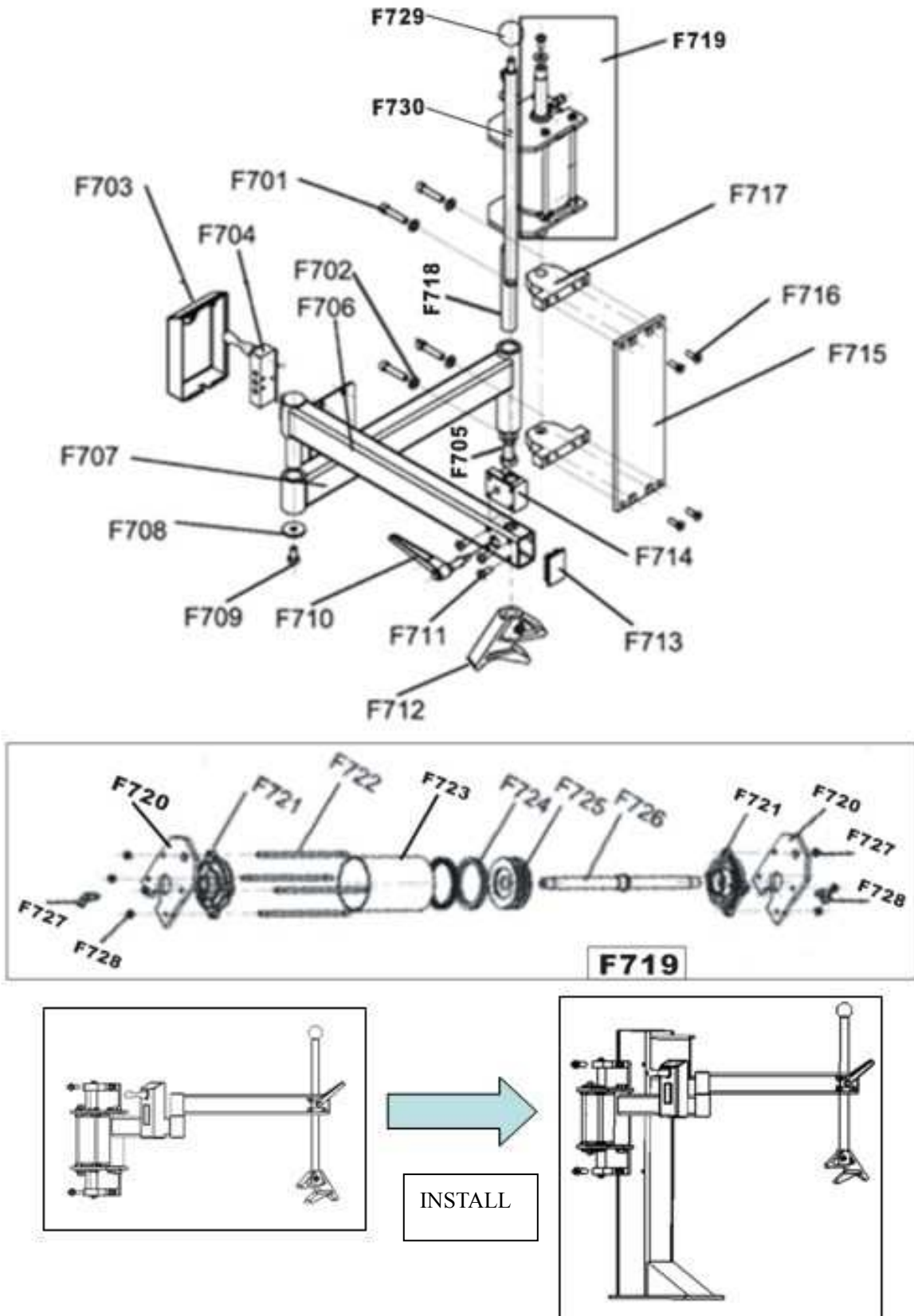


Fig 39

Appendix 1

Electrical Diagram

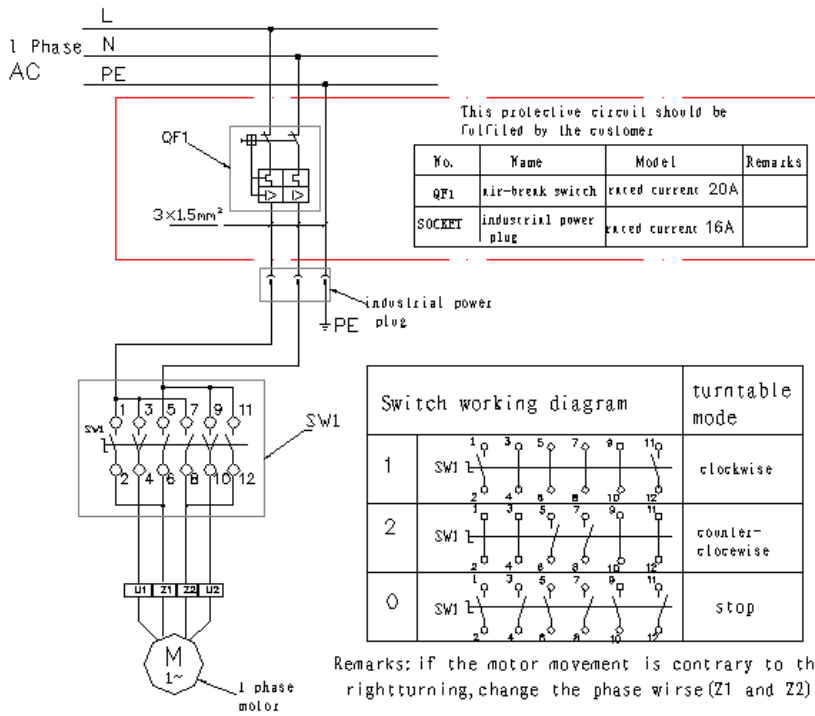


Fig 40

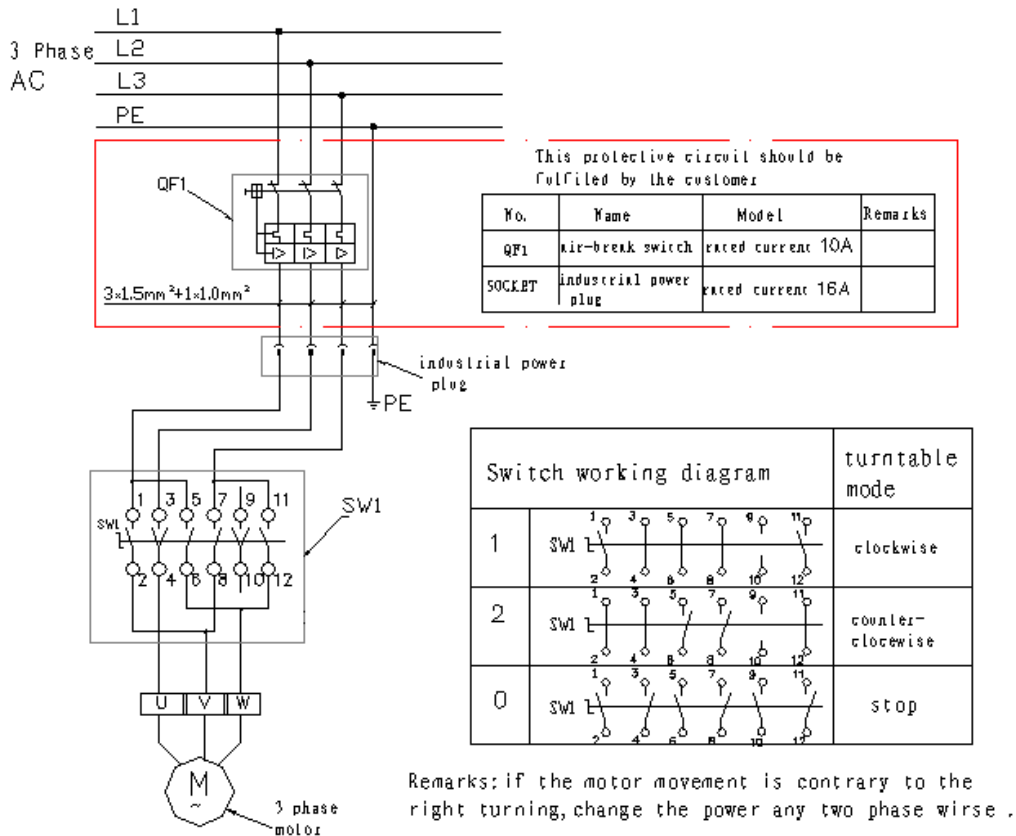


Fig. 41

Appendix 2

Air Passage Diagram

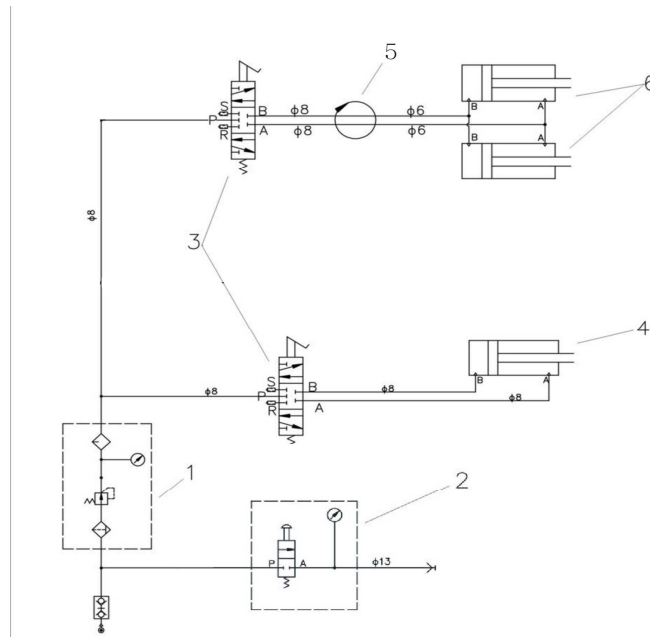


Fig. 42

- | | | |
|---------------------|--------------------------|---------------------------|
| 1. Filter unit FR+L | 3. Five-way valve | 5 Rotating valve assembly |
| 2. Inflation gun | 4. Bead breaker cylinder | 6 Locking cylinder |

Appendix 3

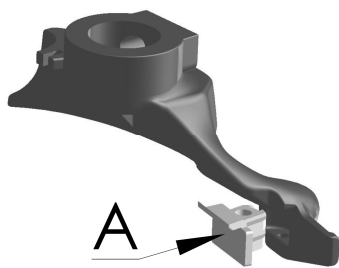


Fig. 43

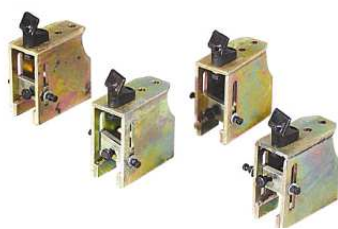


Fig. 44

Optional accessory

Mounting head for alloy rim (Fig.43) (Optional)

These are special plastic protectors designed for use light alloy rims.

Motorcycle adaptor (Fig.44) (Optional)

It can demount and mount 8" --24" motorcycle tire. 4 pcs/set