# Tyre Changer JMP Fix Moto

(Translation of original operating instructions)
Revision 2: As of serial number 2018-01-2061




(D) Reifenmontiermaschine JMP Fix Moto
(DK) Montermaskine JMP Fix Moto
(PL) Zmieniarki do opon JMP Fix Moto
(E) Desmontadora neumáticos JMP Fix Moto
(I) Smontagomme JMP Fix Moto

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CE

JM-No. 677 03 08

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# Operating and Maintenance Manual

## Warning

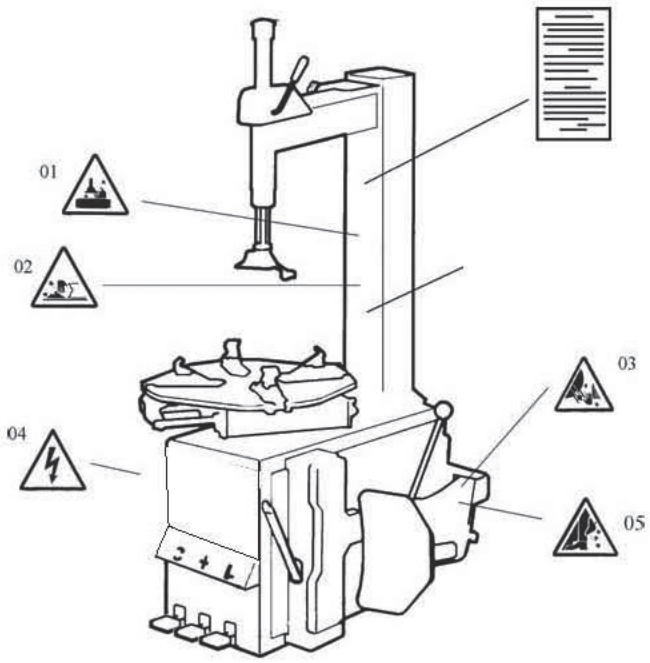
This operating manual is very important for operation of the machine. Please read it carefully before you install and use the machine. This manual also serves to ensure safe use and maintenance of the machine. Please keep this manual so that you will also have it on hand later for maintenance of the machine..

## 1. Introduction

Application: The semi-automatic tyre changer has been developed specially for mounting and removing motorcycle tyres.

**Caution:**
Please use the machine only for the purpose intended.
The manufacturer assumes no liability for any damage or personal injury caused by improper use or a failure to comply with these stipulations and instructions.

**Safety instructions:**
This machine may only be used by trained and qualified personnel who have already thoroughly familiarised themselves with the operating manual or by persons who already have corresponding experience in the use of similar machines. Any modifications not permitted by the manufacturer or not realised in accordance with the instructions for use and which go beyond the scope of this machine may lead to malfunctions and damage to the machine. The manufacturer may then be relieved of its warranty obligation and coverage for the machine. If, for whatever reason, machine parts are damaged, please replace them in accordance with the spare parts list. (Caution: there is a warranty of one year on this machine, calculated from the date of delivery by the manufacturer. Parts that can be easily damaged are excluded from the warranty).




## 2. Warning labels and danger spots

| | |
|---|---|
|  | 01 Do not put your hands under the mounting head while the machine is in operation! |
|  | 02 Do not put your hands between the jaws during machine operation! |
|  | 03 Do not reach into the inner side of the tyre bead with your hands during mounting and removal! |
|  | 04 Ensure that the system is also equipped with a reliable earthing circuit! |
|  | 05 Ensure that your feet are not in the area of the tyre lever and housing during machine operation! |

Safety warning signs

**Caution:**
If the safety warning signs are folded down or have become detached, please replace them immediately with new ones! Do not operate the machine if safety warning signs are missing or insufficiently visible. Always ensure that the safety warning signs are clearly visible at all times and not covered by objects.

## 3. Technical data

| | |
|---|---|
| Dimensions of clamping ring: | 6-24“ |
| Max. wheel diameter: | 1,040 mm (41“) |
| Max. wheel width: | 355 mm (14“) |
| Working pressure: | 8-10 bar |
| Power supply: | 110 V (1ph) / 220 V (1ph) / 380 V (3ph) |
| Motor cable for connection: | 0.75/0.55/1.1 kW |
| Max. torque (turntable): | 1,078 Nm |
| Overall dimensions: | 96 x 76 x 93 cm |
| Operating noise: | 75 dB |
| Working environment humidity: | ≤ 90 % |
| Working environment operating temperature: | 5 - 50 °C |

**Note:**
The above clamping ring dimensions are based on iron wheel rims. Aluminium rims are thicker than iron rims, so the clamping ring sizes mentioned here are only a reference.

## 4. Transportation

When transporting the machine, use the original packaging and place the machine on the markings in the packaging provided for this purpose. The already packed machine should only be loaded and unloaded with a sufficiently powerful forklift. Fig. 1 shows the exact position at which the forks should be inserted.

## 5. Unpack & checking for completeness and damage

Pull out the nail attaching the plate with the top jaw. Remove the cardboard and plastic cover. Ensure that all parts listed on the spare parts list (see item 14 of this manual) are also complete. The machine should not be operated if anything is missing or damaged. Contact the Matthies workshop service immediately.

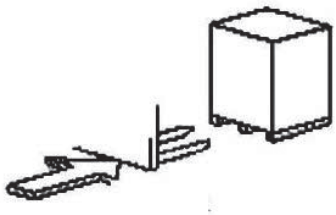


Fig. 1

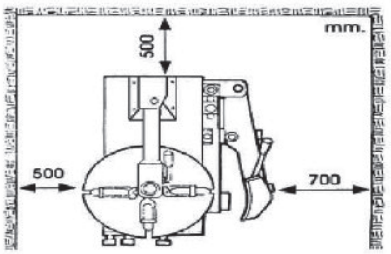



Fig. 2

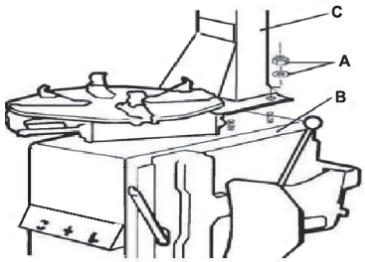



Fig. 3

## 6. Workplace requirements

The workplace provided for this purpose must fulfil all safety regulations. The electrical and pneumatic connections depicted in item 8 must be available. Ensure that the workplace is adequately ventilated and cooled. In order to ensure smooth operation of the machine, it should be set up in the designated workplace with sufficient clearance between it and the walls (as shown in Fig. 2). If the machine is to be set up outdoors, it must be adequately protected with a roof against weather influences such as rain and sunlight.

**Warning:**
Since the machine is operated with a motor, it should not be operated in an environment in which explosive materials are located.

## 7. Position and installation

1. Remove the ground screws, set up the machine and align it with a spirit level. Then secure the machine with all the screws and ensure that it is standing stably on the ground. Ensure that the machine also has an adequate earthing circuit to prevent short circuiting. Ensure that the machine is secured against slipping.
2. Remove the nut on the machine housing B as illustrated in Fig. 3. Lift the column C. Attach it to the machine housing B by securing the bolt on the machine housing B with the nut A. Should the column become loose after a certain period of operation, it should be tightened again immediately, as the tyre could otherwise be damaged.

## 8. Electric and pneumatic connections

**Caution:**
Prior to installation and connection, ensure that the intended power supply also matches the technical data of the machine. Electrical and pneumatic equipment may only be installed by an authorised electrician.

Connect the compressed air connection on the right-hand side of the machine to the compressed air system. The power network to which the machine is to be connected must have appropriate fuses and reliable grounding on the outer housing. Install the automatic pressure release switch on the main power supply. The bleed current is set at 30 mA.

**Caution:**
The scope of delivery for this machine does not include a mains plug, meaning the user must connect a mains plug with at least 16A which should also correspond to the machine voltage. Alternatively, you can connect the machine directly to the power supply in accordance with the above specifications.

## 9. Operating settings

| | | | |
|---|---|---|---|
|  | Jaw closing pedal (H) |  | Jaw opening pedal (V) |
|  | Turntable rotating pedal (Z) |  | Levering pedal (U) |

1. Press the turntable rotating pedal (Z). The turntable (Y) rotates in a clockwise direction. Lift the turntable rotating pedal (Z). The turntable (Y) rotates in a anticlockwise direction.
2. Press the levering pedal (U). The bead breaker blade (R) closes inwards. Release the pedal (U). The bead breaker blade (R) returns to its original position.
3. Press the jaw opening pedal (V). The four clamping jaws (G) on the turntable open. Release the pedal stops the movement of the jaws. Press the pedal again and the jaws open up to the edge of the turntable.
4. Press the jaw closing pedal (H). The four clamping jaws (G) on the turntable close. Press the pedal again and the four jaws stop. Stepping on the pedal again causes the jaws to close again centred relative to the turntable.

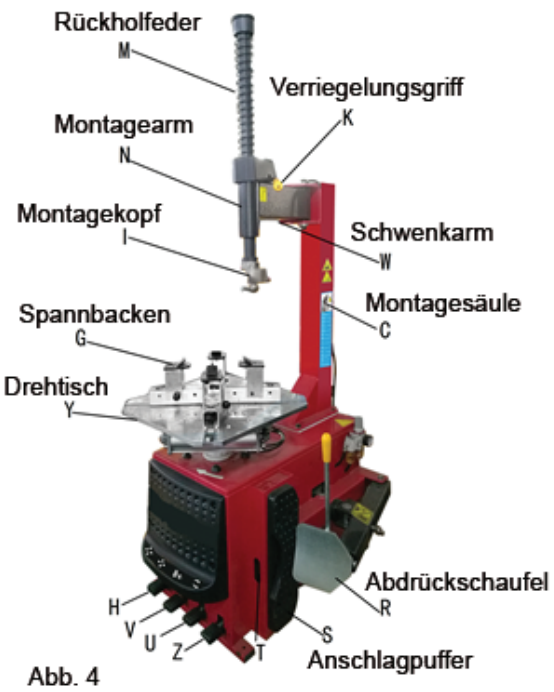


Abb. 4

**Note:**
The clamping jaws can be opened and closed in any position on the turntable using the jaw opening pedal, allowing the wheel to be clamped easily and quickly in position or speedily released. This makes working more efficient.

The work consists of three parts:
1. Levering the tyre bead
2. Removing the tyre
3. Mounting the tyre

**Caution:**
Before each use of the machine, ensure that you are not wearing any loose clothing and wear headgear, gloves and non-slip shoes for protection. Ensure that you let the air out of the tyre completely and also remove all wheel balancing weights from the rim.

## 9.1. Levering the tyre bead

Ensure that the tyre is completely deflated and position the tyre against the stop buffer (S). Now hold the bead breaker blade (R) approx. 10 mm away from the edge against the bead as shown in Fig. 5. Press the levering pedal (U) to lever off the tyre. Repeat this procedure at different positions around the tyre and on both sides until the tyre bead has been completely loosened.

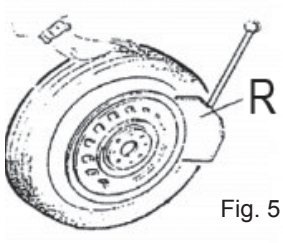
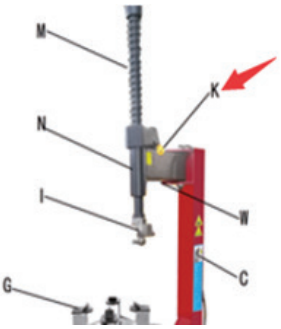


Fig. 5

## 9.2. Removing the tyre

Ensure that all the weights on the wheel rim have been removed and allow all the air to escape out of the tyre before you start working. Lubricate the tyre bead all around with tyre mounting paste. Not using mounting paste can lead to heavy wear on the tyre. Clamp the wheel in the manner shown below corresponding to the wheel diameter.

To open the wheel from the outside:
Press the jaw opening pedal (V) halfway to the middle and position the four jaws (G) on the turntable (Y) using the reference scale. Place the tyre on the turntable, hold the edge firmly and press the jaw closing pedal (H) until the wheel is securely fixed in the jaws.




To open the wheel from the inside:
Position the four clamping jaws (G) and keep them all closed. Place the tyre on the turntable and press the jaw opening pedal (V) to open the clamps and fix the wheel securely in position.

**Caution:**
Ensure that the wheel is firmly anchored by the four jaws before realising the next step. Lower the vertical mounting arm (M) manually until the mounting head (I) rests next to the edge, then flip the locking handle (K) so that the vertical arm and rocker arm engage in their position. Adjust the rocker so that the mounting head is about 2-3 mm from the edge of the rim. Now insert the tyre iron (T) between the tyre bead and the front of the mounting head (I) and move the tyre over the mounting head as shown in Fig. 6.

**Caution:**
There should not be any chains, buckles, loose clothing or other objects near turned parts because they pose an increased risk of injury to the operator.

While holding the tyre iron in place, press the turntable rotating pedal (Z) and rotate the turntable (Y) in a clockwise direction until the tyre has completely detached from the wheel rim.
To remove the tyre on the other side, use the tyre iron again to lift the tyre. This detaches the other side of the tyre from the wheel rim.

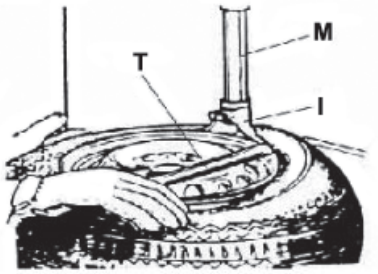
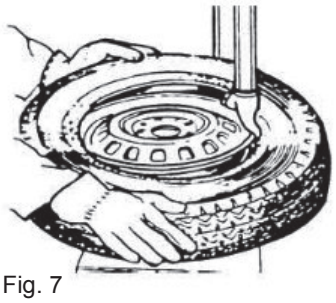


Fig. 6

## 9.3. Mounting the tyre

**Caution:**
Ensure that the tyre and wheel rim are the same size before mounting the tyre.
To avoid any damage to the tyre, lubricate the tyre bead and wheel rim with a suitable mounting paste. Now pull on the tyre and check its fit.

**Caution:**
When tightening the wheel rim, ensure that you avoid placing your hand on the wheel rim to avoid any injuries during this process.


Fig. 7

Lower the vertical mounting arm (M) manually until the mounting head (I) rests next to the edge, then flip the locking handle so that the vertical arm and rocker arm engage in their position. Adjust the rocker so that the mounting head is about 2-3 mm from the edge of the rim. Position the tyre at the edge and allow the tyre iron to return to the same position as when removing the tyre. Lower one side of the tyre bead slightly until above the rear of the mounting head and the other side to below the front of the mounting head. Press the tyre down with your hands or arm, then turn the turntable to push the tyre down on the bead. Repeat the above procedure to fit the tyre to the upper bead (Fig. 7).

## 10. Inflating the tyre

**Important:**

There is an increased risk of injury during the inflating process! Please be especially careful and follow the instructions precisely. It can be very dangerous during inflating if problems are encountered with the tyre or rim. If the tyre bursts or is destroyed due to inadequate pressure or overpressure, the tyre parts are flung out in all directions by the pressure and, due to the enormous force which develops, there is definite risk to the life and limb of persons in the vicinity.

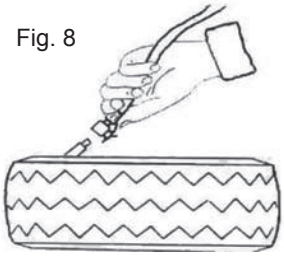
Tyres may burst due to the following circumstances:

1. The wheel rim and tyre are not the same size.
2. The tyre or wheel rim is damaged.
3. The tyre has been inflated beyond the maximum tyre pressure recommended by the manufacturer.
4. The operator has not observed the safety instructions.

Proceed as follows in this case:

1. Remove the valve cap from the valve.
2. Ensure that the valve connection is pressed completely over the valve thread.
3. Ensure that the tyre and wheel rim are the same size.
4. Lubricate both the tyre bead and wheel rim with tyre mounting paste, relubricating if necessary.
5. While inflating the tyre, interrupt the procedure occasionally to check the tyre pressure on the pressure gauge. Check also that the tyre bead is firmly positioned. Repeat the above procedure until the tyre bead is securely positioned.
6. Continue the inflating procedure and repeatedly check the air pressure at short intervals until the required air pressure is reached.

Fig. 8



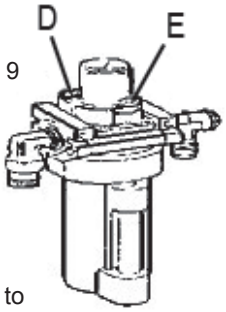
**Note:**

Never exceed the maximum tyre pressure specified by the tyre manufacturer! Keep your distance from tyres that are being filled. This activity may only be performed by specially trained personnel. Keep any persons away from the tyre changer who are not directly involved in the procedure.

## 11. Transporting/relocating the machine

Please use a forklift or pallet truck to move the machine. Disconnect the tyre changer from the power supply and the pneumatic connections, raise the baseplate and insert the forklift/pallet truck forks underneath. Then anchor the tyre changer to its new location and fix it there.

Fig. 9




**Note:**

The new location of the tyre changer should also meet safety requirements.

## 12. Maintenance

**Caution:**

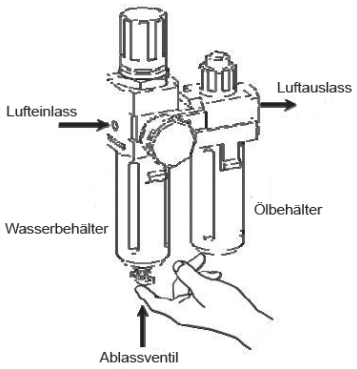
Maintenance work can only be carried out by appropriately trained personnel. In order to extend the service life of the machine, it should be serviced in good time in accordance with the manual. A failure to do so will adversely affect the reliable operation of the machine and may even increase the risk of injury to operators and other bystanders. The average service life expectancy of the machine is about 15 years, depending on the usage. Following this, the machine must be disposed of properly. Disconnect the unit from the terminals if the machine is not used for a longer period of time.

**Caution:**

Disconnect the tyre changer from the power supply and the pneumatic connections before commencing maintenance. Actuate the jaw opening and closing pedal and the turntable rotating pedal 3~4 times so that all the compressed air still in the machine can escape. Damaged parts must be replaced by suitably trained personnel using spare parts provided by the manufacturer.

Clean the machine once a day after use. Remove any dirt on the turntable once a week and grease the jaws.

The following maintenance operations must be carried out at least once a month: Check the oil level in the oiler, topping up with SAE30 oil if necessary.
Screw on with a hexagonal wrench (E). Depending on the connection to the compressed air, first press the jaw opening/closing pedal or turntable rotating pedal 5-6 times, then check if oil in the oiler is dripping down. A drop of oil should drip down every two rotations during continuous operation, otherwise turn the screw (D) that control the oil inlet (Fig. 9) using a flat screwdriver.



**Note:**
Press the drain valve to allow the water in the water container to drain.

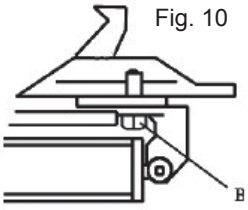


Fig. 10

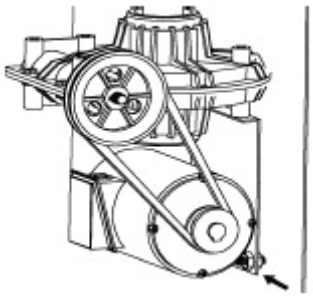
**Note:**
After 20 days of operation, tighten the clamping jaws on the turntable (Fig. 10) with fastening screws (B).

**Note:**
If the turntable does not work with full force, please check that the belt is tightly fitted and observe the following steps:
Remove the right-hand housing by unscrewing the screws. Tighten the two screws under the motor support firmly, maintaining a sufficient distance between the motor support and motor block. Tighten the screws to tension the strap adequately (Fig. 11).

**Caution:**
Please disconnect the machine from the power supply and the pneumatic connections.

**Note:**
Adjust the locking plate if the mounting arm cannot be secured or if it does not meet the requirement of being a distance of 2-3 mm from the edge of the rim. Refer to Fig. 12 in this respect and realise the adjustment (X).

**Note:**
To ensure the reliability of the jaws and the bead breaker blade, please proceed as follows to keep the valves of these components clean:
1. Remove the left-hand cover of the housing by unscrewing the two screws.
2. Loosen the valves (A) belonging to the jaw opening/closing pedal and bead breaker blade (Fig. 13).
3. Clean the silencers with compressed air and replace if damaged with components from the spare parts list (Fig. 13).


Fig. 11

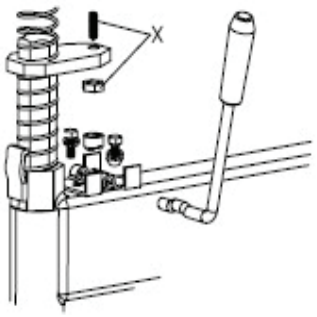


Fig. 12

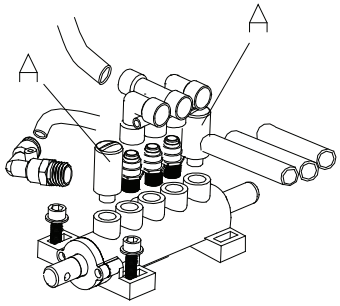
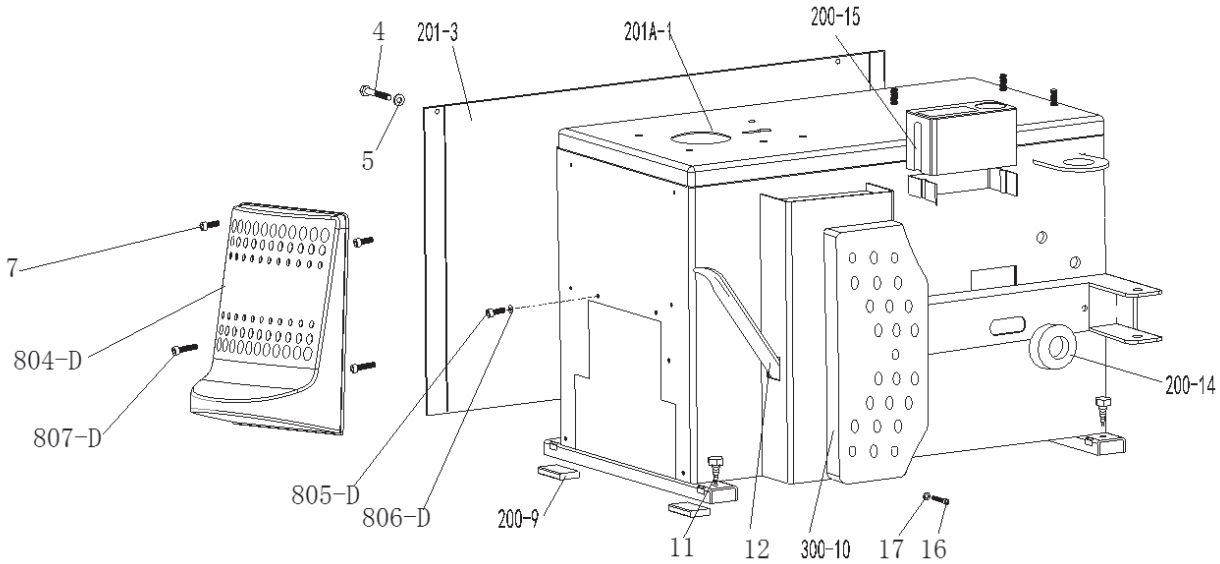


Fig. 13

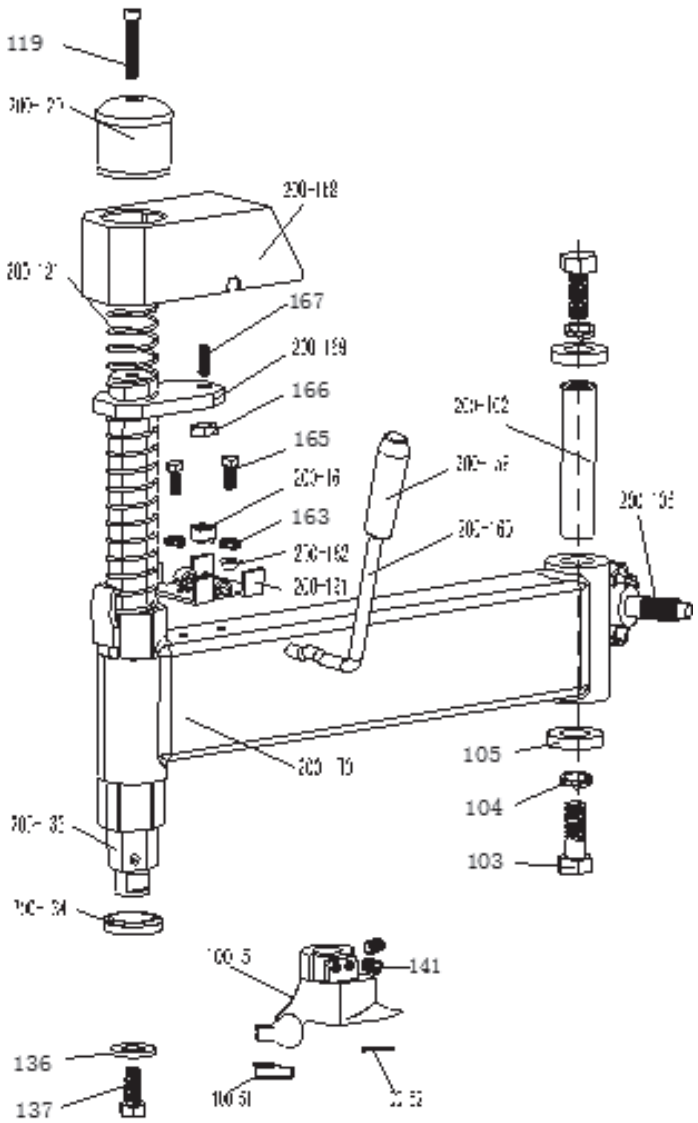
## 13. Troubleshooting table

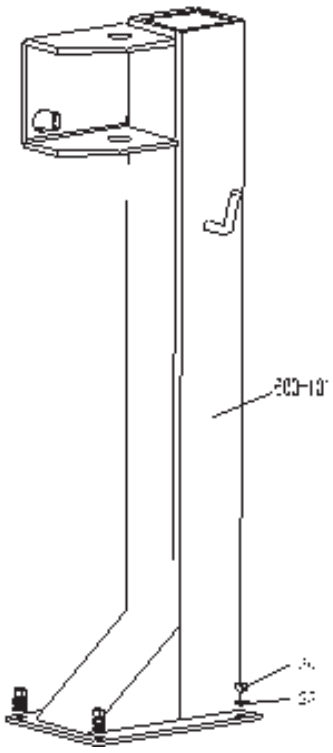
| Problem | Cause | Solution |
|---|---|---|
| Turntable only rotates in one direction or does not turn at all | Reversing switch does not work | Replace reversing switch (page 11, part 200-426) |
| | Belt defective | Replace belt |
| | Motor is malfunctioning | Check motor cable or connection on motor terminal box. Replace motor if it has malfunctioned |
| When mounting/dismounting: The clamping jaws do not hold; The jaws open/close too late | Leakage in compressed air system | Check all parts of compressed air system |
| | Clamping cylinder does not function | Replace cylinder piston |
| | Worn jaws | Replace jaws |
| | Damaged clamping cylinder discs | Replace discs |
| Mounting head continually strikes rim during operation | Locking plate is not correctly adjusted or is unsuitable | Replace or adjust locking plate |
| | Loose screws on chuck. Vertical mounting arm cannot be engaged by locking plate | Tighten screws, replace locking plate |
| Bead breaker blade and jaws opening/closing pedals cannot be turned back to their original position | Pedal spring damaged | Replace pedal spring |
| Bead breaker blade is difficult to handle | Damper jammed | Clean or replace |
| | Disc on bead breaker blade cylinder damaged | Replace disc |

## 14. Exploded view

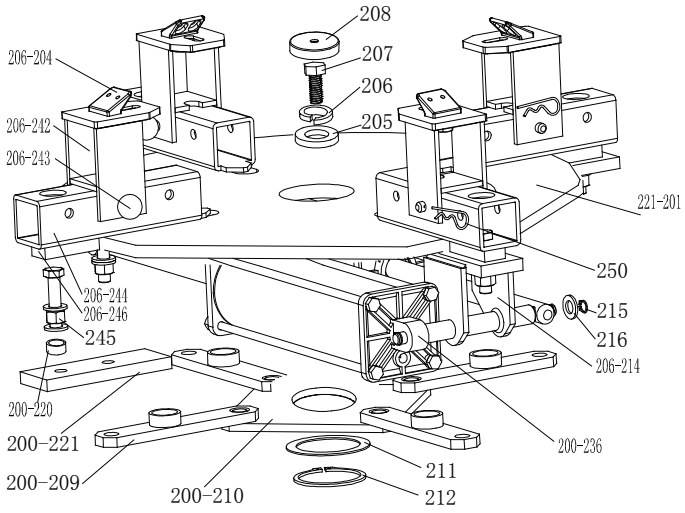


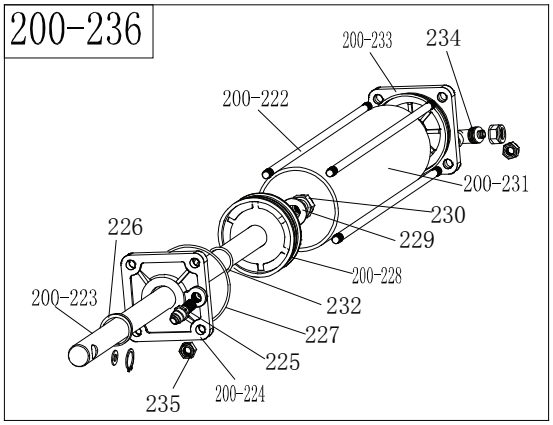

| | | | | | |
|---|---|---|---|---|---|
| 201A-1 | CX-201-010000-A | Machine housing | 300-10 | C-300-500000-0 | Tyre lever buffer |
| 804-D | C-206-080400-D | Pedal front casing | 11 | B-027-060401-0 | Grounding screw M6x40 |
| 201-3 | CX-201-020000-0 | Left-hand casing | 12 | C-200-580000-0 | Lifting lever |
| 4 | B-010-060101-0 | Hex. socket screw M6x10 | 200-14 | C-200-510000-0 | Tyre lever arm rubber |
| 5 | B-040-061412-1 | Washer Ø6*14*1.2 | 200-15 | C-200-470000-0 | Oil/water container |
| 7 | B-010-060161-0 | Hex. socket screw M6x16 | 16 | B-010-080201-0 | Hex. socket screw M8x20 |
| 200-9 | C-000-001020-0 | Rubber buffer | 17 | B-040-081715-1 | Washer Ø8*17*1.5 |
| 805-D | B-025-080161-0 | Hex. socket screw M8x16 | 806-D | B-040-081715-1 | Washer Ø8*17*1.5 |
| 807-D | B-010-060401-0 | Hex. socket screw M6x40 | | | |



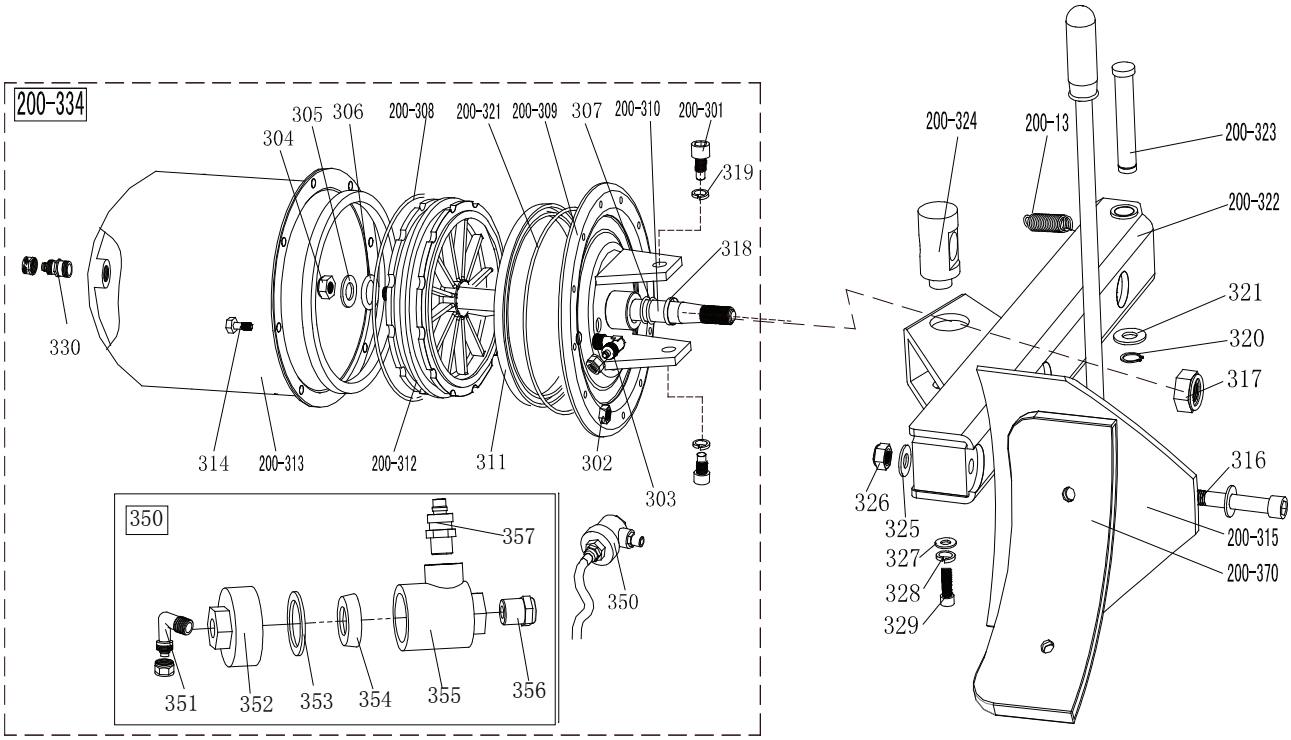



| | | |
|---|---|---|
| 600-101 | CX-204-250000-0 | Square column |
| 200-102 | CX-200-190000-0 | Pivot arm pin |
| 103 | B-014-140301-0 | Hex. screw M14x30 |
| 104 | B-050-140000-0 | Spring washer Ø14 |
| 105 | CX-200-140000-0 | Large washer |
| 200-106D | C-206-350000-D | Column adjusting handle |
| 119 | B-010-100501-0 | Hex. socket screw M10x50 |
| 200-120D | C-206-490000-D | Valve arm cover 200-D |
| 200-121 | C-200-390000-0 | Valve arm spring |
| 128 | B-040-102020-1 | Flat washer Ø 10x2 |
| 130 | B-001-100001-0 | Self-locking nut M10 |
| 200-133 | CX-200-160000-0 | Valve arm 200 |
| 200-134 | C-200-520000-0 | Valve arm washer |
| 136 | CX-200-170000-0 | Flat washer mounting/ dismounting head |
| 137 | B-014-100251-0 | Hex. screw M10x25 |
| 100-50 | C-200-150100-5 | Description mounting/ dismounting head |
| 100-51 | C-200-150300-1 | Mounting/dismounting head |
| 100-52 | C-200-150300-0 | Front washer mounting/ dismounting head |
| 141 | B-007-120161-1 | Hex. socket screw M12x16 |
| 200-158D | C-206-230200-D | Cover locking handle D |
| 200-160 | CX-200-230000-0 | Locking handle |
| 200-161 | CX-200-200000-0 | Locking plat |
| 200-162 | C-200-240000-0 | Cover locking block |
| 163 | B-050-080000-0 | Spring washer Ø8 |
| 200-164 | C-200-210000-0 | Eccentric shank nut |
| 165 | B-014-080251-0 | Hex. screw M8x25 |
| 166 | B-004-120071-1 | Nut M12x1.75x7 |
| 167 | B-007-120301-0 | Hex. socket screw M12x30 |
| 200-168D | C-200-480000-D | Cover locking plate D |
| 200-169 | CX-200-220000-0 | Hex. socket plate 200 |
| 200-170 | CX-200-180000-0 | Pivot arm 470 |

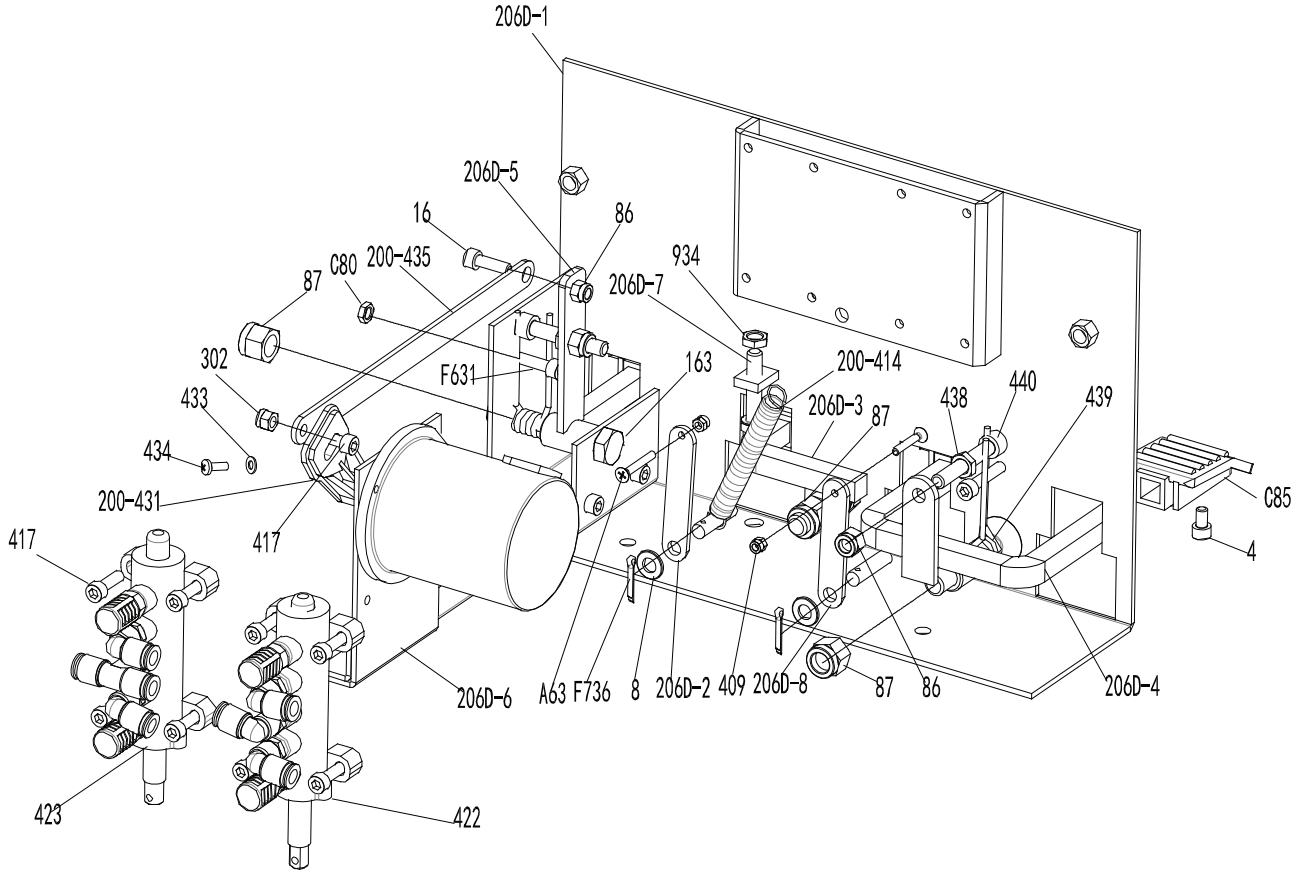


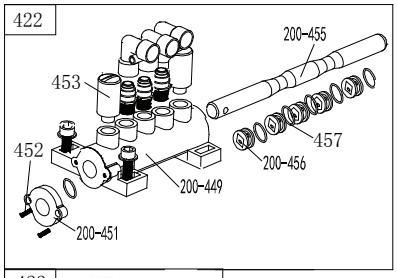



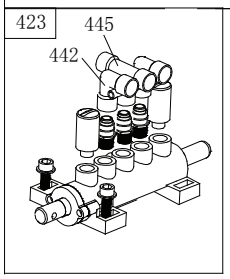

| | | |
|---|---|---|
| 221-201 | CX-221-130000-0 | Turntable 630 |
| 206-204 | C-206-570000-0 | Clamping jaw 206 |
| 205 | CX-200-140000-0 | Large washer |
| 206 | B-050-160000-0 | Spring washer Ø16 |
| 207 | B-014-160401-0 | Hex. screw M16x40 |
| 208 | C-200-440000-0 | Cover turntable |
| 200-209 | CX-200-310000-0 | Structure connecting rod 540 |
| 200-210 | CX-200-280000-0 | Square turntable 540 |
| 211 | CX-200-290000-0 | Washer square turntable |
| 212 | B-055-650001-0 | Locking ring Ø65 (shaft) |
| 206-214 | CX-206-110100-0 | Jaw slide with contact |
| 215 | B-040-122520-1 | Flat washer Ø12x2 |
| 216 | B-055-120001-0 | Locking ring Ø12 (shaft) |
| 200-220 | CX-200-300000-0 | Nut connecting rod |
| 206-221 | CX-206-110100-0 | Clamping slide without pin |
| 200-222 | C-200-100400-0 | Threaded connecting rod 310 |
| 200-223 | C-200-100200-0 | Piston rod of clamping cylinder 320 |
| 224 | C-200-100100-0 | Clamping cylinder cover without handle |
| 225 | S-011-010808-0 | Straight union 1/8“-Ø8 |
| 226 | S-005-020075-0 | V-seal 20*28*7.5 |
| 227 | S-000-063265-0 | O-ring seal 63*2.65 |
| 228 | C-200-540000-0 | Piston with seal ring |
| 229 | B-040-122520-1 | Flat washer Ø 12x24x2 |
| 230 | B-004-120071-1 | Nut M12x7x1.75 |
| 200-231 | C-200-100500-0 | Clamping cylinder tube 279 |
| 232 | S-000-019262-0 | O-ring seal 19.6x2.65 |
| 233 | C-200-100300-0 | Clamping cylinder cover with handle |
| 234 | S-018-010808-0 | Screw connection 1/8-Ø8 |
| 235 | B-001-080001-0 | Self-locking nut M8 |
| 200-236 | CW-105-020001-0 | Complete clamping cylinder 200 |
| 206-242 | CX-206-120300-0 | Slide |
| 206-244 | CX-206-120000-0 | Slide plate |
| 245 | B-014-120651-0 | Bolt M12 |
| 206-246 | CX-206-120500-0 | Slide block |
| 250 | C-238-031400-0 | Fixing pin spring |
| 206-243 | C-206-120800-0<br>CX-206-120700-0 | Handle + connector |

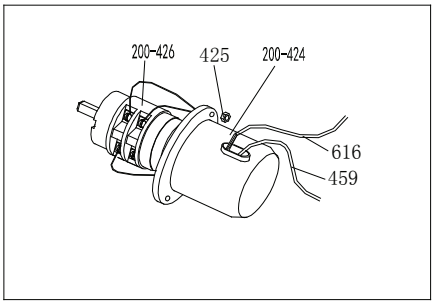



| | | | | | |
|---|---|---|---|---|---|
| 200-301 | B-010-140301-0 | Hex. socket screw M14x30 | 321 | B-040-162820-1 | Flat washer |
| 302 | B-001-060001-0 | Self-locking nut M6 | 702-D | C-206-070200-D | Cover handle bead breaker blade |
| 303 | S-018-010408-0 | Screw connection (90°)1/4-Ø8 | 200-322 | CX-200-030000-0 | Tyre lever arm 200 |
| 304 | B-004-160001-1 | Nut M16*1.5 | 200-323 | CX-200-040000-0 | Tyre lever connector |
| 305 | B-040-162820-1 | Flat washer Ø 16*28*2 | 200-324 | CX-200-050600-0 | Tyre lever cylinder turning connector |
| 306 | S-000-016265-0 | O-ring seal Ø 16*2.65 | 325 | B-040-122520-1 | Flat washer Ø12*24*2 |
| 307 | S-000-020265-0 | O-ring seal Ø 20*2.65 | 326 | B-001-120001-0 | Self-locking washer M12 |
| 200-308 | S-000-180500-0 | O-ring seal 180x5 | 327 | B-040-083030-1 | Flat washer Ø8*30*3 |
| 200-309 | CX-200-050500-0 | Tyre lever cylinder housing | 328 | B-050-080000-0 | Spring washer Ø8 |
| 200-310 | C-200-050100-0 | Tyre lever cylinder piston rod | 329 | B-014-080201-0 | Hex. screw M8x20 |
| 311 | S-005-168115-0 | V-seal 185x168x11.5 | 330 | S-011-010808-0 | Straight union 1/8-Ø8 |
| 200-312 | C-200-050200-0 | Tyre lever cylinder piston | 331 | S-000-019262-0 | O-ring seal Ø 19.6 x 2.62 |
| 200-313 | CX-200-050300-0 | Tyre lever cylinder tube | 350 | CW-112-209800-0 | Tyre lever cylinder drain valve |
| 314 | B-010-060161-0 | Hex. socket screw M6x16 | 351 | S-012-010808-0 | Screw connection (90°)1/8-Ø8 |
| 200-315 | CX-200-070000-0 | Tyre lever blade structure | 331 | S-000-019262-0 | O-ring seal Ø 19.6*2.62 |
| 316 | B-010-120901-0 | Hex. socket screw M12x90 | 353 | C-098-600400-0 | Sealing washer |
| 317 | B-004-160001-1 | Self-locking nut M16x1.5 | 354 | C-098-600300-0 | Bidirectional seal |
| 318 | U-006-000001-1 | Bronze strips (large iron cylinder with bronze strips) | 355 | C-098-600100-0 | Tyre lever cylinder drain valve tube |
| 200-370 | C--200-070600-0 | Tyre lever blade guard (optional) | 356 | S-023-010401-6 | Damper |
| 319 | B-050-140000-0 | Spring washer Ø14 | 357 | S-010-010408-0 | Straight union 1/4-Ø8 |
| 702-D | C-206-070200-D | Cover handle bead breaker blade | 358 | C-2098-600500-0 | Compression spring |
| 320 | B-055-160001-0 | Circlip Ø16 | | | |

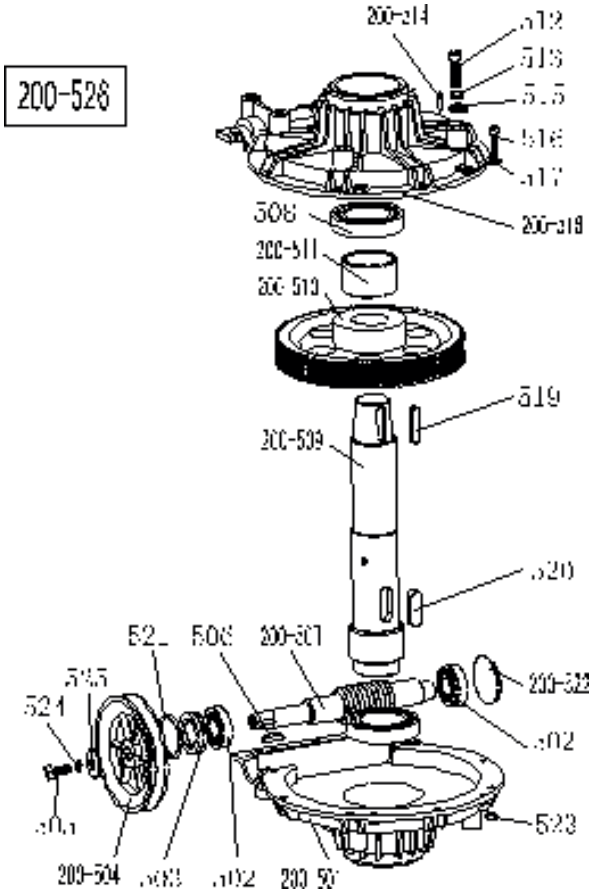

206D-1
206D-5
16
86
C80
200-435
87
934
206D-7
302
F631
163
200-414
433
206D-3
87
438
440
439
434
200-431
417
417
C85
4
206D-6
A63
F736
8
206D-2
409
206D-8
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86
206D-4
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422


422
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200-456
200-449
200-451

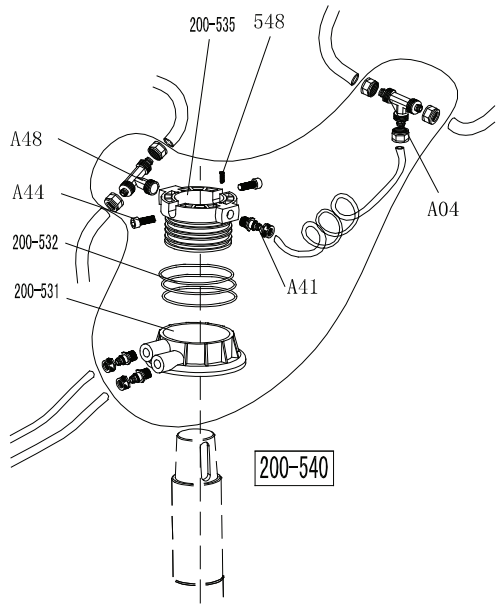

423
445
442


200-426
425
200-424
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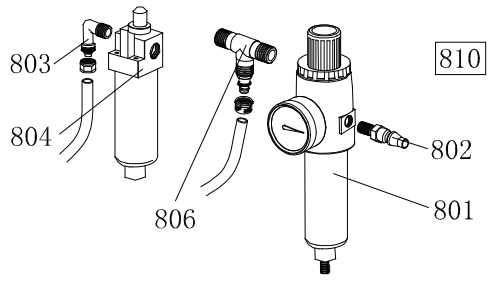
| | | | | | |
|---|---|---|---|---|---|
| 417 | B-010-060201-0 | Hex. socket screw M6x20 | 422 | CW-110-020000-0 | 5-way valve (L-screw connection, without rod) |
| 200-414 | C-200-380000-0 | Pedal spring | 423 | CW-110-020001-0 | 5-way valve (T-screw connection, without rod) |
| 206D-2 | CX-206-110000-D | Connecting rod for tyre lever cylinder | 200-449 | C-200-060901-0 | 5-way valve tube |
| 206D-3 | CX-206-070000-D | Pedal support for tyre lever cylinder | 200-451 | C-200-061100-0 | 5-way valve cover |
| A63 | B-017-040301-0 | Round Phillips screw M4x30 | 452 | B-024-290121-0 | Phillips screw St2.9x14 |
| F736 | B-070-032018-0 | Splint 3x18 | 453 | S-023-010801-0 | Damper 1/8 |
| 8 | B-040-082220-1 | Flat washer 8 x 22 x 2 mm | 200-455 | CX-200-061200-0 | 5-way valve stem |
| 87 | B-001-120001-0 | Self-locking nut M12 | 200-456 | C-200-061000-0 | 5-way valve stem spacer |
| 409 | B-001-040001-0 | Self-locking nut M4 | 457 | S-000-012400-0 | O-ring seal 12x20x4 mm |
| 87 | B-001-120001-0 | Self-locking nut M12 | 442 | S-012-010808-0 | Quick connector 1/8- Ø 8 |
| 86 | B-001-080001-0 | Self-locking nut M8 | 445 | S-016-010808-2 | Quick T-connector 1/8-2* Ø 8 |
| 438 | B-004-080001-0 | Nut M8 | 206D-6 | CX-206-060800-D | Pedal support |
| 439 | C-200-370000-0 | Pedal torsion spring | 206D-1 | CX-206-060000-D | Complete pedal support |
| 440 | B-010-080501-0 | Hex. socket screw M8x50 | 4 | B-010-060101-0 | Hex. socket screw M6x10 |
| 206D-4 | CX-206-090000-D | Pedal support for clamping cylinder | S85 | C-221-640000-S | Pedal cover |
| 433 | B-040-030000-1 | Flat washer Ø3 | 16 | B-010-080201-0 | Hex. socket screw M8x20 |
| 434 | B-024-030161-0 | Round Phillips screw M3x16 | 87 | B-001-120001-0 | Self-locking nut M12 |
| 417 | B-010-060201-0 | Hex. socket screw M6x20 | 206D-7 | B-014-080401-0 | Hex. screw M8x40 |
| 302 | B-001-060001-0 | Self-locking nut M6 | 934 | B-004-080001-1 | Hex. nut M8 |
| 163 | B-014-120651-0 | Hex. socket screw M12x65 | 206D-5 | CX-206-080000-D | Support for switching pedal |
| 200-435 | CX-200-060600-0 | Pedal connecting rod | C80 | B-004-060001-1 | Nut M5 |
| 86 | B-001-080001-0 | Self-locking nut M8 | F631 | B-010-060301-0 | Hex. socket screw M8x25 |
| 206D-8 | CX-206-100000-D | Connecting rod for clamping cylinder | 200-424 | C-200-061400-0 | Reversing switch R+L complete |
| | | | 200-425 | B-004-040001-1 | Nut M4 |
| | | | 200-426 | S-060-016000-1 | Switch single |



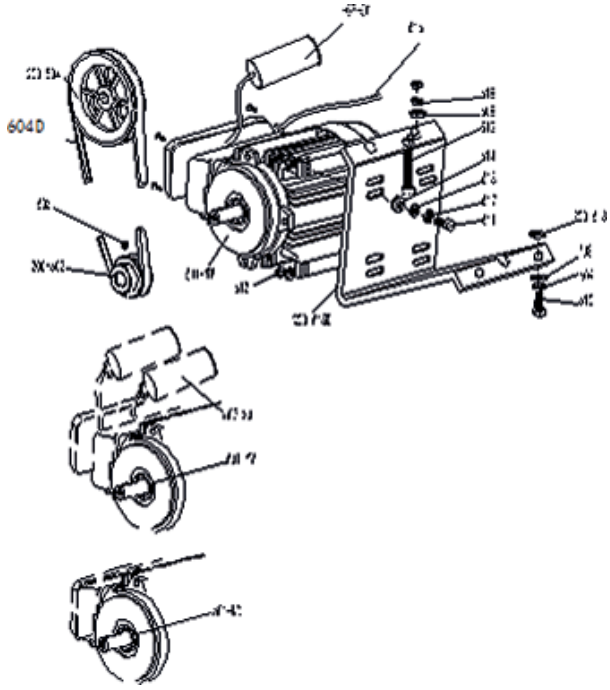

| | | |
|---|---|---|
| 200-501 | C-300-320302-0 | Cover gears bottom |
| 502 | S-040-030204-0 | Bearing 30204 |
| 503 | S-005-020080-1 | Gearbox gasket φ20*35*8 |
| 200-504 | C-200-320500-0 | Gear tensioner |
| 505 | B-014-080251-0 | Hex. screw, outer M8*25 |
| 506 | B-065-006020-0 | Cotter pin washer 6x20 |
| 200-507 | C-200-320400-0 | Worm rod |
| 508 | S-040-006010-0 | Bearing 6010 |
| 200-509 | C-200-320200-0 | Worm shaft |
| 200-510 | C-200-320100-0 | Worm gearbox |
| 200-511 | CZ-200-320600-0 | Spacer |
| 512 | B-014-100551-0 | Hex. screw, outer M10*55 |
| 513 | B-050-100000-0 | Spring washer Ø10 |
| 200-514 | B-060-006020-0 | Taper pin 6X20 |
| 519 | B-065-010040-0 | Cotter pin washer 10x40 |
| 520 | B-065-014040-0 | Cotter pin washer 14x40 |
| 521 | S-000-030355-0 | O-ring seal Ø 30*3.55 |
| 200-522 | C-200-320700-0 | Oil-resistant seal |
| 200-526 | CW-107-020001-0 | Gearbox complete |



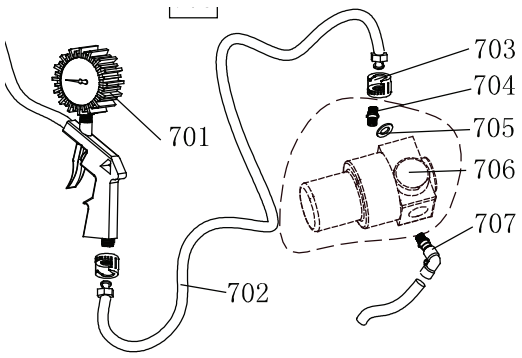

| | | |
|---|---|---|
| A04 | S-015-000008-3 | T-screw connection 3* Ø 8 |
| A44 | B-010-060161-0 | Hex. socket screw M6x16 |
| A48 | S-017-010808-2 | T-screw connection |
| 200-531 | CZ-200-430100-0 | Rotary valve housing |
| 200-532 | S-000-059262-0 | O-ring seal 59.9x2.62 |
| 200-535 | CZ-200-430200-0 | Rotary valve bolt |
| 537 | S-035-055080-0 | Hose 5.5* Ø 8 |
| A41 | S-011-010808-0 | Straight union 1/8-Ø8 |
| 548 | B-007-040061-0 | Hex. socket screw M4x6 |
| 200-540 | CW-016-020000-2 | Complete rotary valve |




| | | |
|---|---|---|
| 801 | S-033-200002-1 | Discharge pressure filter |
| 802 | S-025-000050-0 | Quick-action nozzle |
| 803 | S-018-010408-0 | Screw connection (90°) |
| 804 | S-033-200002-2 | Oil mister |
| 806 | S-015-010408-2 | T-piece 8 mm |
| 810 | CW-114-020005-0 | Complete oil mister |

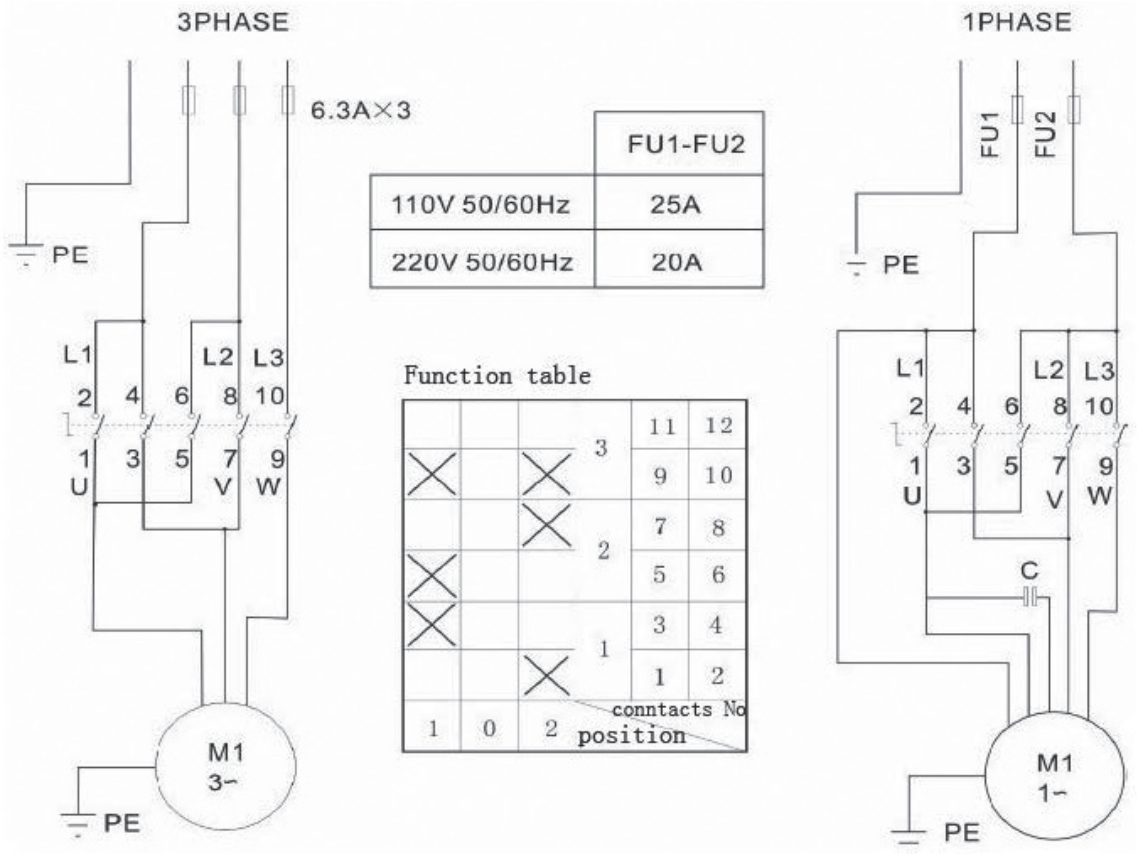



| | | |
|---|---|---|
| 200-504 | C-200-320500-0 | Gear tensioner U200 |
| 601-MY | S-050-230075-0W | Motor, tyre changer 220V-240V/50Hz |
| 200-602 | CX-200-330000-0 | Tensioner motor U200 |
| 603 | B-007-080121-0 | Hex. tensioning screw M8x12 |
| 604D | S-042-000620-0 | Belt, tyre changer |
| 605 | B-014-080651-0 | Hex. screw, outer M8x65 |
| 606 | B-040-083030-1 | Flat washer Ø8*30*3 |
| 607-80 | S-063-008000-0 | Capacitor 80UF,110V |
| 607-50 | S-063-005000-0 | Capacitor 50uf 220V |
| 608 | B-040-102020-1 | Washer φ10*20*2 |
| 609 | B-050-100000-0 | Spring washer Ø10 |
| 610 | B-014-100251-0 | Hex. screw, outer M10x25 |
| 611 | B-014-080351-0 | Hex. screw, outer M8x35 |
| 612 | B-004-080001-0 | Nut M8 |
| 613 | B-040-082220-1 | Flat washer φ8x22x2 |
| 614 | C-200-560000-0 | Motor rubber buffer |
| 200D | CX-206-340000-D | Motor support |
| 616 | CZ-000-205150-0 | Motor cable 220V RVV5*1.0 |
| 617 | B-050-080000-0 | Spring washer Ø8 |
| 200-618 | C-200-560000-0 | Motor rubber buffer |
| 200-504 | C-200-320500-0 | Gear tensioner U200 |
| 618 | B-004-100001-0 | Hex. screw |
| 512 | B-014-100551-0 | Hex. screw, outer M10*55 |

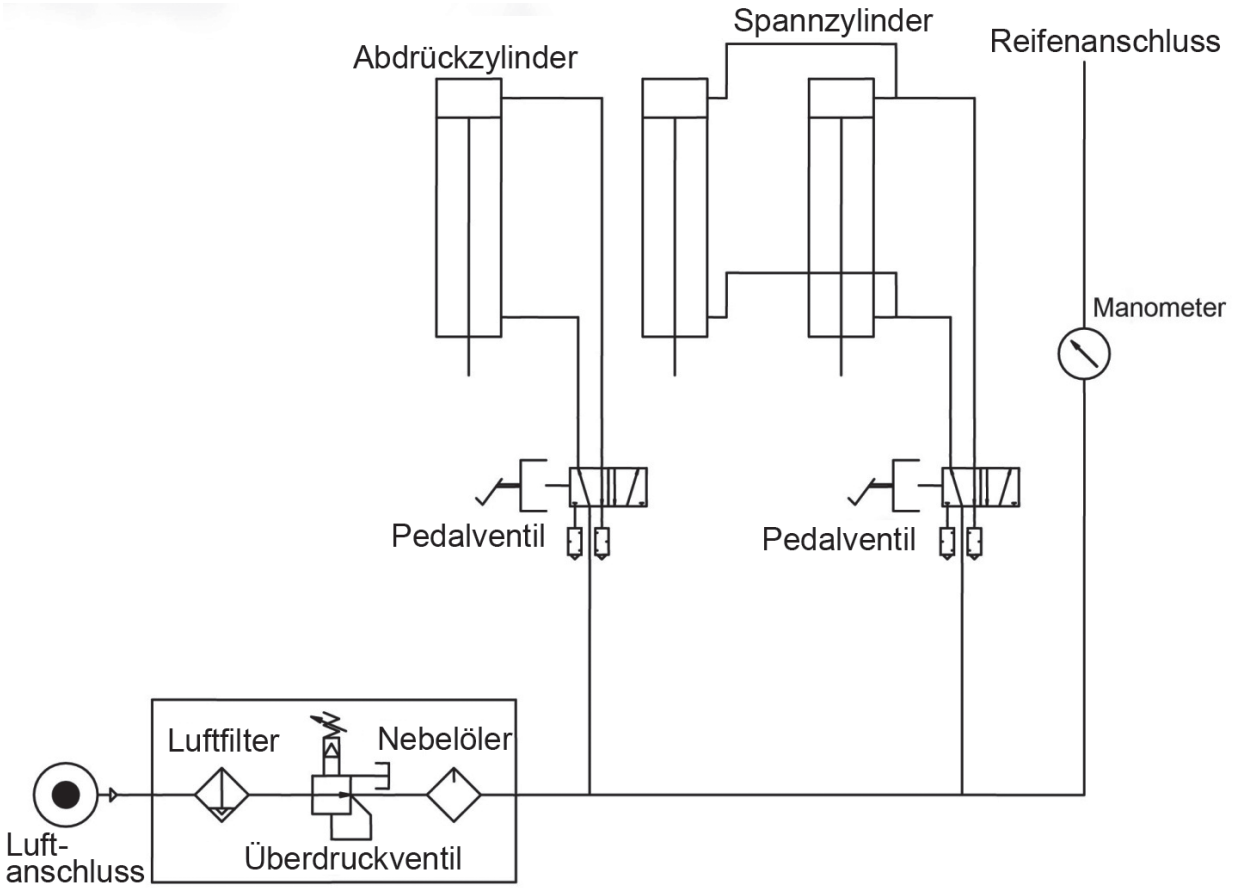



| | | |
|---|---|---|
| 701 | S-038-000100-0 | Pressure gauge manual tyre inflating meter |
| 702 | S-035-014150-1 | Connection rubber hose |
| 703 | S-025-104008-0 | Knurled nut |
| 704 | S-011-010414-1 | Straight union 1/4-1/4 |
| 705 | B-040-132420-1 | Flat washer Ø13 |
| 706 | S-030-010400-2 | Pressure control valve |
| 707 | S-012-010408-0 | Screw connection 1/4-Ø8 |
| 708 | CW-090-000201-0 | Manual tyre inflating meter complete |

## 15. Electrical circuit diagram




## 16. Pneumatic circuit diagram



ZERTIFIKAT ◆ CERTIFICATE ◆ 证书 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

# Declaration of Conformity

**No. N8MA 18 01 84064 017**

**Holder of Certificate:** **Johannes J. Matthies GmbH & Co. KG**
Hammerbrookstr. 97
20097 Hamburg
GERMANY

**Product:** **Vehicles maintenance and testing devices**
**Tyre changer**

**Model(s):** **JMP Fix Moto**

**Parameters:**

| | |
|---|---|
| Rated voltage: | 230VAC |
| Rated frequency: | 50Hz |
| Rated power: | 0.75kW |
| Working pressure: | 8-10 bar |
| Max. Wheel diameter: | 1,040 mm |
| Max. Wheel width: | 355 mm |

**Tested according to:**
EN ISO 12100:2010
EN 60204-1:2006/A1:2009
EN ISO 4414:2010
EN ISO 14120:2015

This Declaration of Conformity confirms that the listed machine complies with the essential electrical safety requirements covered by Directive 2006/42/EC on machinery. These correspond to the essential protection requirements applicable at the time of issuance as set out in Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It is issued on a voluntary basis and refers only to the particular sample submitted for testing and certification. See also notes overleaf.

**Test report no.:** 705201706402-00
**Date,** 2018-01-31 ( Zhisong Chen )

C After preparation of the necessary technical documentation and the EU Declaration of Conformity, the required CE marking can be affixed to the product. The Declaration of Conformity is issued under the sole responsibility of the manufacturer. Other relevant EU directives must be observed.



TÜV SÜD Produ.t SP.rvir.P. r.mhH . 7P.rtifi?tP.r tP.IIP.. RiriiP.r tr::JRP R. Rn nCl Miiarh<>n . r.<>rm.>nu TU