

# Operation Manual



## TC201AIT TC201BIT Tire Changer



Read these instructions before placing unit in service. Keep these and other materials with the unit in a binder near the machine for easy reference by supervisors and operators

## Installation, Operation, Maintenance

## 1. TECHNICAL DATA

Max. Wheel Diameter — 39" (990mm)  
Max. Wheel Width — 13" (330mm)  
External Locking Rim Dimensions — 10"~18"  
Internal Locking Rim Dimensions — 12"~20"  
Max. Bead Breaker Opening — 13" (330mm)  
Max. Working Pressure — 116PSI (8 bar)  
Bead Breaker Force — 5500Lbs. (2500kgs)  
Max. Rotating Torque (Turntable) — 795 ft•lbs (1078N•m)  
Noise Level < 70dB  
Overall dimension 38.2"×30.1"×37"  
Shipping Weight 471 Lbs. (214kgs)

## 2. GENERAL SAFETY WARNINGS AND PRECAUTIONS

You will need the manual for the information of the machine, such as safety warnings and precautions, assembly, operating, maintenance and parts lists/assembly diagrams. Keep your invoice with this manual for future reference. Manufacturer shall not be liable for any injury to persons on damage to things caused by failure to comply with these regulations and can cancel warranty coverage.

1. KEEP WORK AREA CLEAN AND DRY. Cluttered, damp or wet work areas invite injuries.
2. KEEP CHILDREN AWAY FROM WORK AREA. Do not allow children to handle this machine.
3. STORE IDLE EQUIPMENT. When not in use, tools and equipments should be stored in a dry location to inhibit rust. If the machine has to be stored for a long time, disconnect it from all power sources.
4. DRESS SAFELY. Do not wear loose clothing or jewelry as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts.
5. STAY ALERT. Watch what you are doing at all times. Use common sense. Do not use this tool when you are tired or distracted from the job at hand.
6. CHECK FOR DAMAGED PARTS. Before operation, carefully check that this tool will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this machine. Replace or repair damaged or worn parts immediately.
7. REPLACEMENT PARTS AND ACCESSORIES. When servicing use only identical replacement parts. Only use accessories intended for use with this machine. Approved accessories are available from DISTRIBUTOR.
8. MAINTAIN THE MACHINE WITH CARE. Keep the machine clean and dry for better and safer performance.
9. MAINTENANCE. Service and maintenance should be performed regularly by qualified technicians.
10. USE THE RIGHT PRODUCT FOR THE RIGHT JOB. There are certain applications for which this product was designed. Do not use this product for a purpose for which it was not intended.

## 3. SPECIFIC PRODUCT WARNINGS AND PRECAUTIONS

1. BEFORE PERFORMING ANY SERVICES OR MAINTENANCE, ALWAYS DISCONNECT THE MACHINE FROM ITS AIR SUPPLY SOURCE. PUMP THE BEAD BREAKER PEDAL SEVERAL TIMES TO EVACUATE ALL COMPRESSED AIR FROM THE MACHINE, AND DISCONNECT THE UNIT FROM ITS ELECTRICAL SUPPLY SOURCE.

2. USE CLEAN, DRY, REGULATED COMPRESSED AIR AT UP TO 8 BAR (110 PSI).

3. Do not exceed the recommended maximum of 8bar.

If an automatic oiler is not used, add two drops of oil into the Quick Connector of the Pressure Regulator.

3. DO NOT INFLATE A TIRE ABOVE OR BELOW THE AIR PRESSURE RECOMMENDED BY THE TIRE MANUFACTURER.

4. ALWAYS DISPOSE OF OLD TIRES ACCORDING TO CORRELATED LAWS.

5. TO AVOID PERSONAL INJURY AND/DR MACHINE DAMAGE, ALWAYS MAKE SURE THE TIRE RIM IS FIRMLY SECURED ON THE TIRE CHANGER WITH THE JAWS.

NEVER PLACE YOUR HANDS BETWEEN THE VEHICLE WHEEL RIM AND THE JAWS DURING THE LOCKING/CLAMPING STAGE.

## 4.ASSEMBLY INSTRUCTION

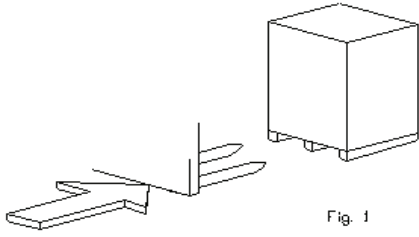


Fig. 1

Fig.1

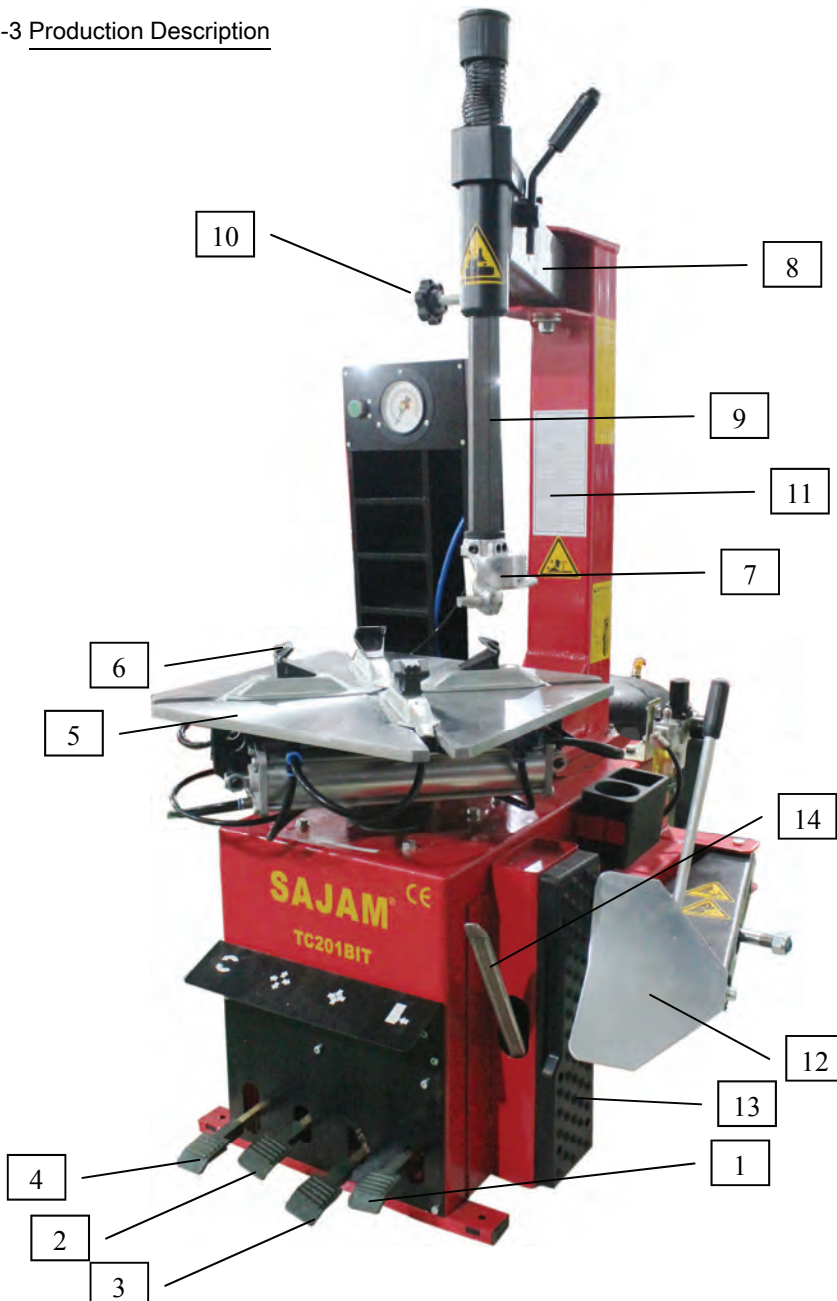
### 4-1 Transport

When transporting the machine it must be handle with a forklift truck with the forks Positioned as show as in the Fig.1.

### 4-2 Unpacking

When unpacking, check to make sure all parts shown on the spare parts List/Assembly. Diagrams are included. If any parts are missing or broken, please call the manufacturer or the dealer as soon as possible.

### 4-3 Production Description



1	Bead Breaker Pedal
2	Jaw clamp Pedal (open)
3	Jaw clamp pedal (closed)
4	Reverse Pedal
5	Turntable
6	Jaw
7	Mounting Head
8	Swing arm
9	Hexagonal vertical arm
10	Column adjusting screw
11	Column
12	Shovel
13	Rubber wheel support
14	Lever

#### 4-4 Workplace Requirements

1. The machine's workplace requires 1400(width)×1685(depth) with at least 500 mm of clear space from each wall. Place the tire changer on a firm, smooth and unbroken floor. Drill four holes in the floor corresponding to the holes pre-drilled in the base of the machine. Holes should be 80mm deep. Its diameter is 10mm. Then insert the expansion Plugs and lighten with the 10mm spanner.

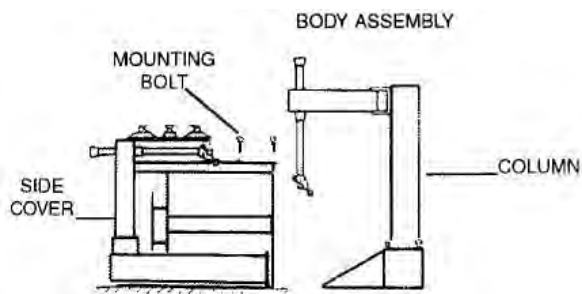


Fig.3

#### 4-5 Assembly Procedure

1. Temporarily remove the four mounting bolts, washers, and Nuts located at the top / rear of the body assembly.
2. With assistance, set the column on the body assembly, and align the four mounting holes in which the bolts, washers, and nuts were moved.
3. Firmly wrench tightens the column with the four mounting bolt, washers, and nuts mentioned in step 1 above.

#### 4-6 Pneumatic Link Up

1. Push the clamping pedal down completely to ensure that the clamping jaws do not open unexpectedly.
2. Connect the air hose to the union on bottom of the vertical column, which is as a tanker.
3. Connect the inflation gun, if it is to be installed, to its connector.
4. Connect the tire changer to a compressed air network. (Suggested working pressure is 8 bar) using the connector which is on the air-water separator located right side of the base assembly.

#### 4-7 Electric Link up

1. Before making any electric link up, check to be certain that the main voltage corresponds to what is stamped on the voltage tag.
2. It is absolutely essential that the system is equipped with a good grounding circuit.
3. The machine must be connected to a power supply line circuit bracket set for 30mA.

### 5. OPERATING INSTRUCTION

#### 5-1 To Preliminary Operating Tests

1. Connect the tire changer to its air and electrical supply sources, and allow adequate time for the compressed air system to reach the recommended 110-PSI.
2. Depress the Reverse Pedal (3, Fig.2) down, the turntable should turn in a clockwise direction. Pull the pedal up and the turntable should turn anticlockwise.
3. Press the bead breaker pedal (1, Fig.2) to activate the paddle. When the pedal is released. The pedal should return to its original position.
4. Press the jaw clamp pedal (2, Fig.2) once to open the four jaws. Press the pedal again to close the jaws.

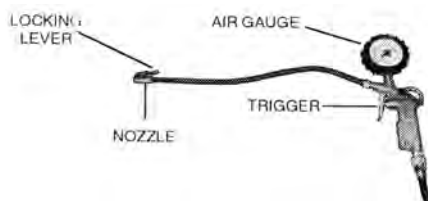


Fig.4

Press the trigger on the air gauge to release air from the nozzle. (Fig.4)

#### 5-2 To Break Tire Bead

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel.
2. Close the turntable clamping jaws completely.
3. Open the bead breaker arm by hand by pushing it towards the outside. Place the wheel up against the Rubber Buffer. Bring the Paddle against the bead about 10mm from the edge of the rim. (see Fig.5)
4. Depress the bead breaker pedal fully to activate the paddle. Release pressure on the bead breaker pedal. When the blade has reached the end of its travel and / or when the tire bead is broken.
5. Rotate the tire slightly, and repeat the procedure around the entire circumference of the wheel rim until the bead is completely detached from the rim. (Fig.5)
6. Repeat the above steps for the other side of the wheel / tire.

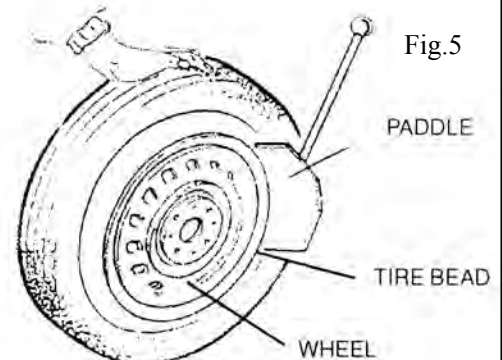


Fig.5



### 5-3 To Remove The Tire From The Wheel

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel weights.
2. Spread tire grease (or a similar lubricant) liberally on the complete circumference of the broken tire bead.

NOTE: Failure to lubricate the tire bead may cause serious damage to the bead.

3. Place the wheel / tire evenly on the turntable.(4, Fig.2)
4. To lock the wheel on the turntable, proceed as follows according to the wheel size:

RIM from 10" to 18":

Position the four jaws (5, Fig.2) according to the reference mark located on the turntable by depressing the jaw clamp pedal (2, Fig.2) halfway down.

Place the wheel on the four jaws and, while keeping the wheel rim pressed down, depress the jaw clamp pedal as far as it will go.

Check to make sure the wheel firmly secured by the jaws.

Rim from 12" to 20":

Position the four jaws so that they are completely closed.

Place the wheel on the four jaws and depress the jaw clamp pedal to open the jaws, thereby locking the wheel rim in place.

Check to make sure the wheel is firmly secured by the jaws.

5. Lower the tools shaft (7, Fig.2) until the mounting head (6, Fig.2) rests next to the wheel rim and on top of the tire. Then, lock the tools shaft in position, using the block support.
6. Insert the lever between the tire bead and the front section of the mounting head. (Fig.6)

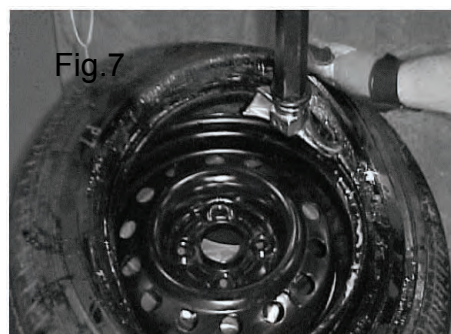


Fig.6

7. Move the tire bead over the mounting head by pulling upward on the reverse pedal.(3, Fig.2)
8. NOTE: To avoid damaging the inner tube (if there is one), it is recommended to perform this step with the inner tube valve stem positioned about 1" to the right of the mounting head.
9. With the lever (14, Fig.2) held in position, rotate the turntable in a clockwise direction by fully depressing the reverse pedal. Continue until the tire is completely separated from the wheel rim.
10. Remove the inner tube (if there is one), and repeat the above steps for the other side of the wheel / tire.

### 5-4 To Mount The Tire Onto The Wheel Rim

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel weights.
2. Spread tire grease (or a similar lubricant) liberally on the complete circumference of the tire bead to avoid damage to the tire bead to avoid damage to the tire and to facilitate the mounting procedure.
3. Lock the wheel rim, using the inner part of the jaws.(5, Fig.2)
4. NOTE: When you are working with wheel rims of the same size, it is not always necessary to lock and unlock the tools shaft. Instead, move the swinging arm (8, Fig.2) sideways with the tools shaft locked.(7, Fig.2)
5. Move the tire so that the bead passes below the front section of the mounting head and is brought up against the edge of the rear section of the mounting head. (Fig.7)



6. Keep the tire bead pressed down into the wheel rim channel with your hands. Then, depress the reverse pedal to rotate the turntable clockwise. Continue this process throughout the entire circumference of the wheel and tire.
7. Insert the inner tube (if there is one).
8. Repeat the steps above the mount the other side of the tire.

#### 5-5 To Inflate The Tire

1. CAUTION: A burst tire can cause serious injury or even death to the operator. Always make sure the wheel rim and the tire are of the same size. Check the condition of the tire, and make sure it has no defects before beginning the inflation process. Keep your hands and body as far away from the tire as possible. Inflate the tire with brief jets of air, checking the air pressure frequently.  
Never inflate a tire above and or below the air pressure recommended by the tire manufacturer.
2. To inflate the tire, attach the air gauge nozzle (See Fig.4) to the tire valve stem with the locking lever in the "UP" position. Check the condition of the tire, and make sure the nozzle is pressed down completely over the threads of the valve stem.
3. When the air gauge nozzle is firmly in place, press the locking lever down to lock onto the valve stem.
4. Remember to inflate the tire with brief jets of air, checking the air pressure frequently. Once the proper air pressure has been reached, disconnect the nozzle from the valve stem and screw a valve cap onto the stem. (Fig.8)

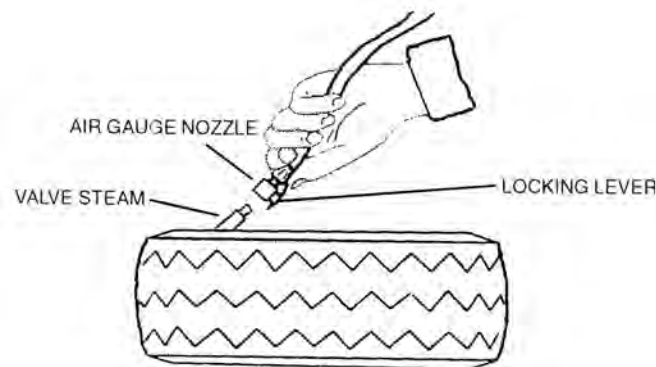


Fig. 8

#### 6. CLEANING AND MAINTAENANCE

1. CAUTION: Always disconnects the tire changer from its air supply source. Pump the bead breaker pedal several times to evacuate all compressed air from the machine, and disconnect the unit from its electrical supply source before performing any services or maintenance.
2. Before each use, inspect the general condition of the tire changer. Check for loose screws, misalignment, binding of moving parts, broken parts, loose or damaged air supply hose / electric power cord, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, disconnect the tire changer from its air and electric supply sources immediately and have the problem corrected before further use. Do not use damaged equipment.
3. At least once per week, clean the turntable with detergent or a nonflammable solvent. Also, grease the jaw guides.
4. At least once per month, check the oil level in the lubricator tank. If necessary, remove the oil cap, fill the tank with SAE 30 oil, and replace the oil cap. Also, make sure that one drop of oil is injected into the tank every 3-4 times the bead breaker pedal is depressed. If necessary, regulate the rate of oil injection with the oil regulator screw.
5. After the first 20 days of use, retighten the jaws tightening screws and the screw located on the turntable slides.
6. In the event of a loss of power, check to see if the belt is tight. To do so, remove the left side of the cover by unscrewing the six screws. Tighten the belt, using the adjusting screw located on the motor support.

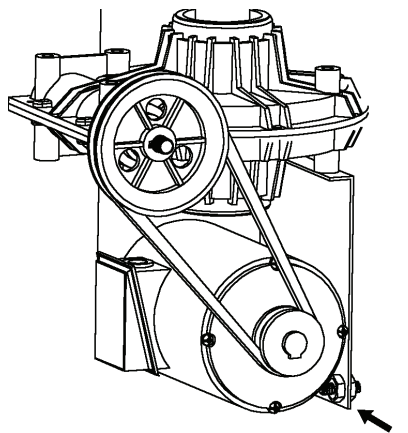


Fig.9

In the event the block support doesn't lock the tools shaft in place, or the mounting head doesn't rise at least 1/8" above the wheel rim which is necessary for working, adjust the nuts as shown in fig.10.

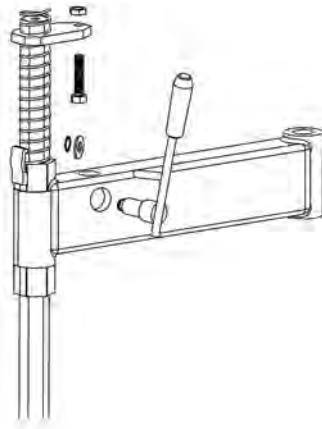


Fig 10

To clean or replace the center chuck valve, remove the side cover, which is located on the left side of the body assembly, by unscrewing the six screws.

Remove the air hoses from the center chuck valve.

Clean the center chuck valve, using a jet of compressed air. Or if necessary, replace the unit.

For cleaning or replacing the bead breaker valve, follow steps 8, 9 and 10 above.(Fig.11)

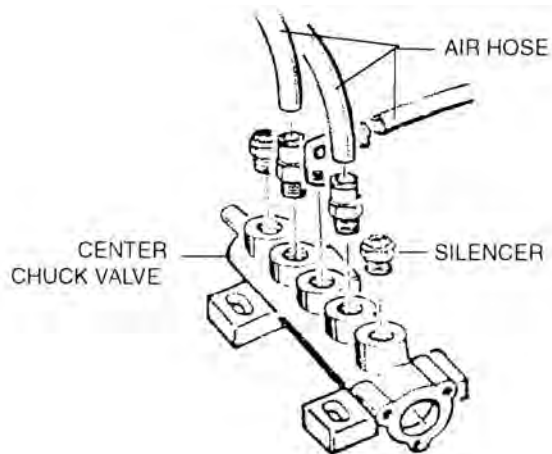


Fig.11

## 7.TROUBLE SHOOTING

1. Problem) Turntable does not rotate.  
Cause by
  - A. The power plug didn't inserted or no power from the mains electric supply.
  - B. The Problem with motor or reverse switch
  - C. Reverse pedal broken
  - D. Belt loose or brokenSolution
  - A. Inset the plug correctly and reset the mains electric supply.
  - B. Check for loose wired in the motor or reverse switch.
  - C. Check and repair reverse assembly.
  - D. Reset or replace the belt.
2. Problem) Turntable locks while mounting / demounting tire.  
Cause by
  - A. Belt loose.Solution
  - A. Adjust belt tension.
  - B. Apply more lubricated oil on tire and rim before mounting or demounting.
  - C. Apply additional force on other side on tire during mounting or demounting.
3. Problem) Jaws slow to open/close.  
Cause by
  - A. Silencer clogged.
  - B. bolt on slide guide was too lose or too tight
  - C. Air pressure under 6 bar
  - D. FRL didn't provide lubricated oil
  - E. Air leak from clamping cylinder / 5 ways valve / rotation union.Solution)
  - A. Clean or replace silencer.
  - B. re-adjust the bolt.
  - C. check air pressure on FRL or supplier
  - D. Check FRL oil drop.
  - E. Replacement.
4. Problem) Turntable does not lock the wheel rim correctly.  
Cause by
  - A. Jaws worn.
  - B. Defective piston
  - C. Air leak from Rotation unionSolution)
  - A. Replace jaws.
  - B. Replace plate cylinder gaskets.
  - C. Replace the rotation union or v-seal in rotation union.
5. Problem) Tool touches the wheel rim during tire mounting/demounting process.  
Cause by
  - A. Locking slide incorrectly adjusted or defective.
  - B. Locking slide screw loose.
  - C. Mounting head didn't adjusted right position.Solution)
  - A. Adjust or replace locking slide.
  - B. Tighten screw.
  - C. Adjust the mounting head position.
6. Problem) Bead Breaker Pedal and Jaw clamp pedal lock out of position.  
Cause by
  - A. Return spring of the pedal broken.
  - B. 5 ways valve out of functionSolution
  - A. Replace spring
  - B. replace the 5 way valve.
7. Problem) Bead breaking operation difficult.  
Cause by
  - A. Silencer clogged.
  - B. Value shaft O-ring broken.
  - C. Cylinder piston V-seal or O-ring broken.Solution
  - A. Clean or replace silencer.
  - B. Replace O-ring.
  - C. Replace V-seal or O-ring



## Part List

No	Part code	QTY	Part Name	BarCode
1	C2010101	1	Body	4892442102291
2	C2010615	1	Front cover	4892442102307
3	GB/T 70	12	Bolt M6 x 15	4892442102987
4	GB/T 93	6	Washer $\phi 6 \times 12 \times 1.5$	4892442119077
5	C2010143	1	Left cover	4892442104363
6	GB/T 70	6	Bolt M8 $\times$ 20	4892442102901
7	GB/T 93	6	Washer $\phi 8 \times 17$	4892442119091
8	C2110113	1	Bead breaker pads	4892442115987
9	C211010105	4	Rubbber foot	4892442118131
10	C2110158	1	Bead lifting lever	4892422110074
11	C201001203	1	Pedal bracket	4892442115451
12	C211011213	1	Pedal Spring	4892442110883
13	C201011210	1	Pedal Shaft	4892442115499
14	GB/T 95	2	Washer $\phi 12$	4892442119152
15	GB/T 894.1	1	Retaining Ring $\phi 12$	4892442121438
16	C201011208	1	Pedal big Bracket	4892442115475
17	GB/T 70	2	Bolt M6 $\times$ 25	4892442102963
18	GB/T 1337	2	Nut M8	4892442108217
19	C211011207	1	Pedal swtich handle	4892442118216
20	GB/T 70	2	Bolt M8 x 25	4892442108064
21	C201011209	1	Pedal swtich connection rod	4892442107456
22	C2010111	1	Pedal switch assembly	
101	C2110138	1	Vertical column	4892442102031
102	C2110135	1	Column pin	4892442118406
103	GB/T 95	1	Nut M16	4892442108170
104	GB/T41	1	washer $\phi 16 \times 47 \times 7$	4892442120783
105	C2110137	1	Column adjusting screw	
106	C2010133	1	Locking block handle bar	4892442118377
107	GB/T 93	1	Washer $\phi 16$	4892442121261
108	GB/T 894.1	1	Retaining Ring $\phi 16$	4892442121452
112	GB/T 41	1	Nut M12	4892442108194
113	GB/T 78	1	Bolt M12 x 80	4892442105742
114	GB/T 70	1	Bolt M8 x 50	4892442102871
115	C2110132	1	Knob	4892442118278
116	C2110129	1	Plastic cover	4892442118322
117	C2110131	1	Spring	4892442110913
118	C2110130	1	Locking Plate	4892442118308
119	C2110126	1	Horizontal arm	4892442102314
120	C2110125	1	Hexagonal vertical arm	4892442118643
121	C2110124	1	buffer bush	4892442118162
122	C211012302	1	Mounting head plastic protector	4892442118247
123	C2110124	1	Mounting head	4892442118445
124	GB/T 119	1	Pin	4892442110647
125	GB/T 78	1	Bolt M10 x 25	4892442107968
126	GB/T 95	1	Washer $\phi 10$	4892442118414
127	GB/T 78	4	Bolt M12 $\times$ 15	4892442103182
128	GB/T 41	4	Nut M10	4892442108316
129	GB/T 95	4	Washer $\phi 10$	4892442119121
130	GB/T 73	5	Spring washer $\phi 10$	4892442121346

131	C2110123	1	Mounting head assembly	4892442120967
202	C2110145	4	Slide	4892442120868
203	C2110144	4	Jaw	4892442120783
204	C2110120	1	Turntable washer	4892442105711
205	GB/T 5781	1	Bolt M16 x 40	4892442118261
206	C2110163	1	Cap	4892442121025
208	C21101201	1	Washer	4892442121537
209	GB/T 894	1	Retaining Ring $\phi 65$	4892442120929
211	C2110121	2	Slide guide	4892442119121
212	GB/T 95	4	Washer $\phi 12$	4892442121438
213	GB/T 894.1	4	Retaining Ring $\phi 12$	4892442105735
214	GB/T 80	4	Bolt M12 x 80	4892442119121
215	GB/T 95	4	Washer $\phi 12$	4892442120806
217	C2110148	4	Flat spacer for chuck	
218	C211011904	8	Tightener	
219	C211011902	2	Cylinder rod	
220	C211011901	2	Front flange	4892442106312
221	PC08-01	2	Union 1/8- $\phi 8$	
222	JB/T 6997-BC	2	V-seal	
223	JB1092-BC	4	O-ring	
224	C211011906	2	Piston	
225	GB/T 95	2	Washer $\phi 12$	
226	GB/T 1337	2	Nut M12	
227	C211011905	2	Cylinder casing	
228				
229	GB/T 95	16	Nut M8	
230	C211011903	2	Front flange with pin	
231	PL08-01	2	L-Union 1/8- $\phi 8$	4892442108569
233		1	Completed Self-centering chuck	
234				
235	GB/T 70.1-2000	8	Bolt M10*20	4892442102840
236	C211.01.22.02	1	Shaft sleeve	4892442121018
237				
301	C2110353	1	Union 8-M12	
302				
303	C211010603A	1	Beadbreaker cylinder casing	
304	GB/T 1337	1	Nut M16	
305				
306				
307				
308	JB1092	2	O-ring $\phi 180$	
309	C211010606	1	Bead breaker cylinder lid (front)	
310	C211010601	1	Bead breaker cylinder rod	
311	JB/T 1091	2	Bead breaker V-seal	
312	C211010602	1	Bead breaker piston	
313	GB/T 41	12	Nut M6	
314				
315	C2110114	1	Shovel	4892442102338
316	C2110111	1	Bolt M12x100	4892442121612
317	GB/T 1337	1	Nut M20	4892442108156
318				
319	GB/T 894.1	1	Retaining Ring $\phi 16$	4892442121452

320	GB/T 96	1	Washer $\phi$ 16×29×2	4892442121261
321	C2110105	1	Bead breaker arm	4892442102185
322	C2110142	1	Bead breaker arm pin (rear)	4892442102345
323	C2110168	1	Rotating Pin	4892442102352
324	GB/T 1337	1	Nut M12	4892442108194
325	GB/T 95	2	Washer $\phi$ 12×24×2	4892442121216
326	GB/T 5287	1	Washer $\phi$ 8×30×2	4892442119114
327	GB/T93	1	Sping washer $\phi$ 8	4892442121339
328	GB/T 5783	1	Bolt M8 x 20	4892442108071
329	C2110108	1	Cushion	4892442118148
330	C2110104	1	Spring	4892442110845
331	C2110109	2	Bolt M14*30	4892442121599
332				
333				
334	GB/T5781	12	Bolt M6 x 12	
335	JSM-L-Z6	1	L-Union 8-M12	
336	C2110106A	1	Completed bead breaker cylinder	4892442115932
337	GB/T93	1	Sping washer $\phi$ 14	4892442121360
401	C211011208	1	Pedal bracker	4892442115437
402	C2110361	1	Hose	
403	C2110361	1	Hose	
404	PC08-01	5	L-Union 8-1/8"	4892442103809
405	C21101122001	2	5-ways-valve	4892442118506
406	C2110361	1	Hose	
407	QXS-L8	4	Silencer 1/8"	4892442105988
408	PT08-01	1	T-Union 8-8-1/8"	4892442105926
409	C2110361	1	Hose	
410	C2110361	1	Hose	4892442119237
411	C2110361	1	Hose	
412	C211011211	1	Spring	4892442110821
413	GB/T 70	2	Split pin	4892442110586
414	C211011206	2	Pedal connection rod	4892442107456
415	C201011207	2	Split pin 1	4892442115482
416	C202001201	4	Pedal plastic cover	4892442118230
417	GB/T 41	1	Retaining Ring $\phi$ 8	
418	C211011201	1	Pedal for breaker	4892442115420
419	C211011201	1	Pedal for clamping	4892442115444
420	GB/T 41	4	Retaining Ring $\phi$ 10	
421	GB/T 95	2	Washer $\phi$ 8	
422	GB/70-85	8	Bolt M6x15	
423	GB/T889.1-2000	8	Nut M8	
424	C211011220	1	completed Pedal assembly	
501	C211015203	1	Gear box bottom cover	
502	GB/T 297	2	Bearing 30204	
503	GB/T 10708	1	V-seal	
504	C211015207	1	Gear box pully	
505	GB/T 41	1	Nut M10	
506	GB/T 1096	1	Key 6×20	
507	C211015206	1	Gear box shaft	
508	GB/T 292	2	Bearing 7010	
509	C211015202	1	Gear Box shaft	
510	C211015201	1	Gear	

511	C211015208	1	Round Pin	
512	GB/T 70	10	Bolt M6 x 20	
513	GB/T 95	10	Washer φ6	
514	C211015203	1	Gear box top cover	
515	GB/T 1096	1	Key 10×40	
516	GB/T 1096	1	Key 14×40	
517	JB1092	2	O Ring φ34	
518	C211015205	1	Shaft shopper	
519	GB/T 1337	10	Nut M8	
520	C2110152	1	Completed Gear Box assembly	4892442115949
601	C2110201	1	Motor	
602	GB/T 1096	1	Key 6×20	
603	C2110141	1	Motor Pully	4892442114584
604	GB/T 71	1	Bolt M8×12	4892442103250
605	GB/T 11544	1	Belt A25	4892442113488
606	C2110211	1	Cable (switch to motor)	
607	C2110212	1	Cable (switch to capactor)	
608	C2110202110	2	Capacitor 80μF ( 110V )	
		1	Capacitor 60μF ( 220V )	
609	C2110202220	1	Cable	
610	C2110213	1	Switch plastic cover	4892442118223
611	C202011217	1	Washer φ8×24×2	4892442119107
612	C2110154	12	Bolt M10 x 160	4892442105803
613	GB/T 70	4	Reverse switch	4892442113020
614	IEC947-3	1	absorber washer φ10*30*4	4892442118186
615	C2110154	8	Washer φ10×20×2	4892442119121
616	GB/T95	8	Sping washer φ10	4892442121346
617	GB/T 93	8	Bolt M10×25	4892442107968
618	GB/T 70	2	Bolt M8×30	4892442108057
619	GB/T 70	4	Nut M8	4892442108323
620	C2110110	1	Motor support bracket (380V)	4892442112443
			Motor support bracket (220V)	4892442112450
801	JSM-3T	1	T-Union	4892442106091
802				
803	JSM-L-Z6	1	L-Union 8-3/8"	4892442108590
804				
805				
806	C2110333	1	Pressure gauge	
807	200-03-03	1	Completed FRL	4892442111132
809	GB/T 70.1-2000	2	Bolt M6 X 20	4892442103021
810				
811				
812				
813				
814	CU14-38	1	Bushing connector 1/4"-3/8"	
815	CU14-14	1	Union 1/4"-1/4"	
816	PC08-14	1	Quick union	
817	AL3000-03	1	FRL (oil container unit)	
201A	C2010122	1	Turntable A size	4892442120882
201B	C2010122	1	Turntable B size	4892442125191
207A	C2110147	1	Control Plate A size	4892442120943
207B	C2110147	1	Control Plate B size	4892442126433

210A	C2110150	4	Connection rod A size	4892442120790
210B	C2110150	4	Connection rod B size	4892442128420
216A	C211012101	2	Slide guide A size	4892442120899
216B	C211012101	2	Slide guide B size	4892442120905
232A	C2110019	2	Clamping cylinder A size	4892442115697
232B	C2110019	2	Clamping cylinder B size	4892442115703
IT_01	I2110301	1	Tank	4892442116137
IT_02	PQ-L10	1	Safety Valve	4892442108736
IT_03	I2330341	1	Hose	4892442119305
IT_04	I2110312	1	Hose	4892442119299
IT_05	PT08-01	1	T-union 1/8"	4892442108491
IT_06	KP-L25	1	Completed quick exhaust valve	4892442108811
IT_07	C233030104	1	Tie-in	4892442108842
IT_08		1	Plastic Rotating valve casing	4892442132205
IT_09	I2110313	4	Hose	4892442119244
IT_10	PC08-01	4	Union 8-1/8"	4892442106312
IT_11		1	Plastic Rotating union mandrel	4892442132199
IT_12	I211011704	3	O-ring $\Phi 60 \times 2.65$	4892442113327
IT_13	PC12-04	1	Connector 1/2"-12	4892442106374
IT_14	I2110314	1	Hose	4892442119251
IT_15	I2110315	1	Hose	4892442119299
IT_16	C211011220	1	Hose	4892442119299
IT_17	I2110316	1	Completed 5 way valve	
IT_18	I2110317	1	Hose	4892442119299
IT_19	PC08-01	1	L-union 1/8"-8	4892442108569
IT_20	PC-3T-0803	2	T-union	4892442108491
IT_21	C2110327	1	Solenoid hose	4892442119268
IT_22	GB/T41	4	Nut M6	4892442108354
IT_25	GB/T41	2	Nut M10	4892442107968
IT_26	GB/T41	2	Spring washer $\phi 10$	4892442121346
IT_27	GB/T42	2	washer	4892442119121
IT_28	PL12-04	1	L-Union 1/2- $\phi 12$	4892442108651
IT_29	I233030303	1	Tie-in	4892442108859
IT_32	I233030305	1	Union	4892442107432
IT_33	I233030302	1	Union	4892442107425
IT_34	I233030103	1	Union	4892442105360
IT_35	I233030105	1	L-union	4892442108828
IT_36	I233030106	2	Nip	4892442113129
IT_37	GB/T5781	3	Bolt M8	4892442107968
IT_38	C2110167	1	Tools box support	4892442109542
IT_39	C211016504	1	T union	4892442108491
IT_40	I2330340	1	Air manometer	4892442111071
IT_41	GB/T5781	6	Bolt M5	4892442105391
IT_42	C2110165	1	Tools box	4892442127973
IT_43	MOV-03A	1	Exhaust Valve	4892442108804
IT_44	PL08-01	1	L-union 1/8- $\phi 8$	4892442108569
IT_45		1	Connecting Block	4892442120240
IT_46	PC10-02	8	Connector 1/4- $\phi 10$	4892442106343
IT_47	GB/T5781	3	Screw for fixing air manometer	4892442105391
IT_48		2	Hose	4892442119299
IT_49		2	Hose	4892442119299
IT_51	C211033002	1	Air outlet hose	4892442119398



IT_52		1	Hose	4892442119282
IT_53		1	Front cover	4892442109566
IT_60		1	Completed IT Box	4892442109559
IT_61		1		
IT_62		4	T-union 1/8-2*φ10	4892442108507
IT_101		4	Bolt M6*20	4892442102970
IT_102		10	washer φ6*12*1.5	4892442119077
IT_103				
IT_104		1	Nut M5	4892442108231
IT_105				
IT_106		1	Retaining ring	4892442121452
IT_107		1	washer φ16*30*2	4892442121261
IT_108		1	Spring	4892442110821
IT_109		1	Inflation pedal support	4892442132939
IT_110		1	Bolt M6*25	4892442102963
IT_111	GB/T1337	1	Nut M6	4892442108224
IT_112		1	Nut M10	4892442108200
IT_113		1	Spring φ2*15*58	4892442110784
IT_114		1	Bolt M10*65	4892442121681
IT_115		1	Pin	4892442132281
IT_116		1	Bolt M5*16	4892442103045
IT_117		1	Pedal bracket	4892442132922
IT_20		1	5-ways-valve-shaft	4892442107449
IT_20		2	Bolt M3*10	4892442105575
IT_20		1	5-ways-valve-cover	4892442118520
IT_20		6	5-ways-valve-v-seal	4892442113372
IT_20		5	5-ways-valve-spacer bush	4892442118513
IT_20		1	5-ways-valve-body	4892442118506
IT_20		2	Outside hex bulkhead	4892442106183
IT_20		3	Union 1/8-φ8	4892442106312

