

Daytona

AUTOMOTIVE EQUIPMENT



CANADIAN OWNED AND OPERATED
SINCE 1999

C-880 TIRE CHANGER 23"

USER MANUAL

PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION/OPERATION OF THIS EQUIPMENT



Model # C 880 Serial #

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IMPORTANT SAFETY INSTRUCTIONS

Read these safety instructions entirely!

Read and understand all safety instructions before operating machine

Preface

Thanks for choosing this tire changer. This machine is designed and made specially for changing the tires of automobile and motorcycle with the principle of best quality and highest working efficiency. For ensuring correct and safe operation, and prolonging the work life of the machine, please read this manual carefully.

Information

Information about tire changer, such as type, specifications and related data, are helpful for service technician to provide technical service and parts replacement.

For convenient understanding, this manual contains the relevant information about the machine. Should there be any difference between the data in this manual and that on the nameplate, take the data on nameplate as correct one.

Carefully keep this manual for use at any time.

Brief Introduction

Scope of Application

This tire changer is specially designed for removing tire from rim and installing tire onto rim.

Note: This machine can only be used for the purpose designed by the manufacturer. Do not use it for any other purpose.

Any damage caused by incorrect use will not be covered under warranty.

Safety Regulations

Only the trained and qualified operators can be allowed to operate the machine. Unauthorized change of parts or nonobservance of instruction may cause machine damage.

1. Technical Data

Applicable Range

Max.wheel width:330mm

Max.wheel diameter:920mm

Outside locking(RIM):(10" —18") (10" —20")

Inside locking(RIM): (12" —21") (12" —23")

motor

Power supply 110V / 220V/380V 50/60HZ

Electric motor: 1.1kw/0.75kw

Weight

Net weight:185kg

Air device

Operating pressure: 8-10bar

Moving grip inside(RIM):8" —20"

Moving grip outside(RIM):10" —22"

RPM of turntable:7rpm

Phase: Single/Three

working conditions

working temperature:0-45℃

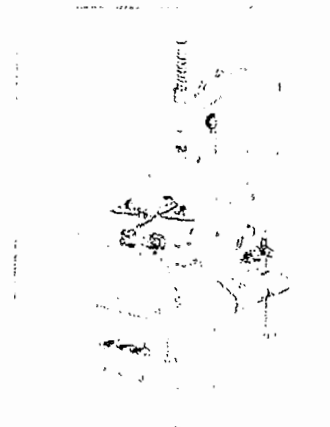
2. Structure

Operation parts of semi-automatic, single- locking machine(Fig.1)

- 1、 Single- locking handle
- 2、 Mount/demount head
- 3、 Bead lifting tool
- 4、 Front logo
- 5、 Gun inflator
- 6、 Turntable
- 7、 Cylinder
- 8、 Turntable control pedal (clockwise or counter clockwise)
- 9、 Clamp control pedal
- 10、 Tire control pedal
- 11、 Bead breaker shoe

Operation parts of semi-automatic, dual- locking machine(Fig.2)

- 1、 Dual- locking handle
- 2、 Mount/demount head
- 3、 Bead lifting tool
- 4、 Front logo
- 5、 Gun inflator
- 6、 Turntable
- 7、 Cylinder
- 8、 Turntable control pedal (clockwise or counter clockwise)
- 9、 Clamp control pedal
- 10、 Tire control pedal
- 11、 Bead breaker shoe



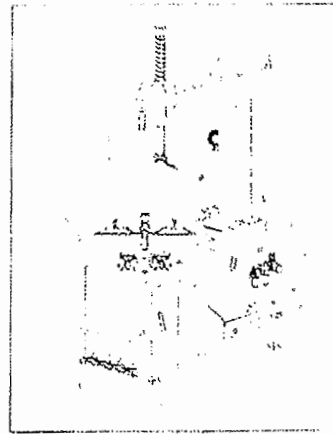
(Fig.1)



(Fig.2)








Operation parts for completely automatic machine (Fig.3)

1. Pedal for tilting the mounting column
2. Pedal for rotating the clamping chuck
3. Pedal for pressing the tire
4. Tool box
5. Pedal for expanding the jaws
6. Tire crowbar
7. Clamping chuck
8. Jaw
9. Mount/demount head
10. Vertical shaft
11. Lock lever
12. Horizontal arm
13. Air pressure gauge
14. Air valve
15. Bead breaker shoe
16. Rubber pad



(Fig 3)

Warning stickers and instruction of the machine

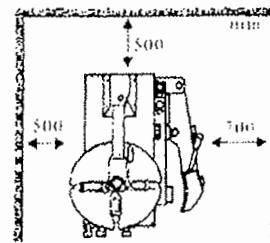
-  Never place leg between the bead breaker shoe and bead breaker rubber, avoid stepping the wrong pedal and cause injury of the operator.
-  Never place hand on the tire when the demount head is on the working position, avoid the injury of the operator.
-  Never place your hand between the tire and gripping device when operate the rim, avoid the injury of the operator.
-  The jaws should in closed position but not in open position when do the bead break, avoid the injury of the operator.
-  The operator should wear the protection glasses when inflate the tires with the machine with GT system avoid something blow into eyes.
-  Never put hand between the rim and tire when inflate the tire, avoid the injury of the operator.
-  There should be nobody behind the tilting pole, when the machine is on the working position.

Installation for semi-automatic machine (Fig.4)

SPACE REQUIRED

When choose the place for installation be sure that it complies with current safety regulations.

The semi-automatic tire changer must be connected to the main electric power supply and air compressed system. It is therefore advisable to install the machine near these power sources



(Fig.4)

The place of installation must provide at least the space shown in figure 4, so as to allow all parts of the machine to be operated correctly and without any restriction.

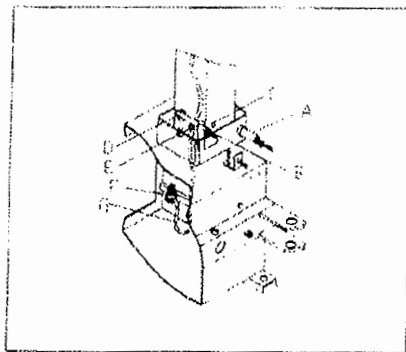
If the machine is installed outside, it must be protected by a lean-to.

→ The tire changer with electric motor can't be used in explosive atmospheres, unless it is a proper version.

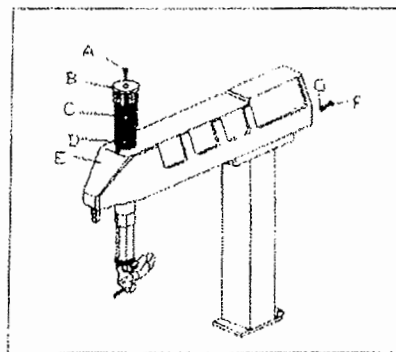
Installation for the completely automatic machine

Place the machine on the chosen place, then fix it to the ground by fixing screw. Lift the tilting arm, and insert the PU hose (G) into the hole (Fig.5). (Do not bend the hose) Then take out the part A (shown in Fig.5) from the accessory box, unscrew the cap on the top of part A, insert the part A into the hole that go through the main box of the machine and the bottom of the tilting arm, then tighten the bolt. Take out the part B (shown in Fig.5) from the accessory box, unscrew the spring on one side of part B, then insert part B into the hole that go through the part D, E, then screw the spring. Dismount the protection plate on the side of the machine. Connect the PU hose (G) that go through the main box of the machine with the part F.

After the above operation is finished, mount the part E on the arm (Fig.6), then mount parts D, C, B, A, G, F in sequence. During the operation, pay attention to the PU hose and other parts.



(Fig.5)



(Fig.6)

→ Insert the expansion bolt into the hole at the bottom of the machine to fix the machine, or if it is not steady, it may cause noise and other problems.

Maintenance

The following maintenance must be done at least once every month.

→ Only the specialized technician can do the maintenance.

→ Before doing any maintenance, shut off power supply and air source.

*Check the oil level in the air-compressed cup periodically. If it needs to be filled, you must shut off air source, then fill the SAE30 oil.

*Clean and lubricate all the moving parts of the turntable. (Fig.7)

*Check all connecting parts and bolts periodically and tighten them if necessary.

*Keep the hexagonal vertical axle clean and lubricate it periodically. (Fig.8)

*Check and adjust the tension of the driving belt. (Fig.9)

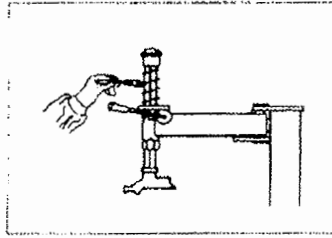
*Keep the machine and the working area clean to avoid the dust entering the moving parts.

*Lubricate all the moving side of the machine weekly.

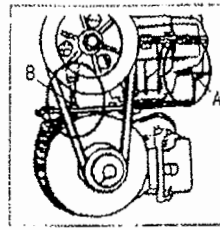


(Fig.7)

*Prepare a water segregator near the air-compressor, to reduce the amount of the water in the air that go through the machine.



(Fig.8)



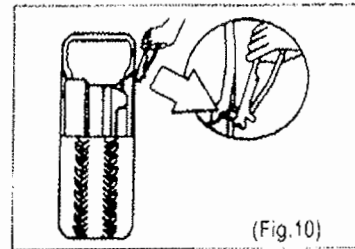
(Fig.9)

Instructions for the operation

→ Only the trained person can do the operation of the machine.

Demounting

1. Release all the air inside the tire.
2. Remove the balance block from the external side of the rim. (Fig.10)



(Fig.10)

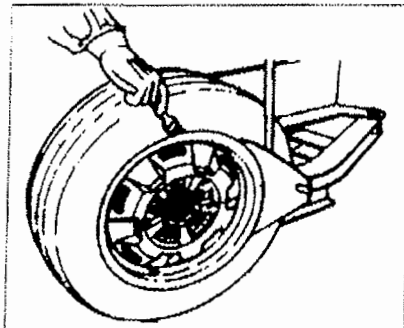
Do the operation as follow:

1. Place the tire between the bead breaker shoe and rubber pad, and make the shoe between the bead and the tire, step on the tire control pedal (10), (in Fig2 step the pedal 10, and in Fig3 step the pedal 3) to separate the bead from the rim. (Fig.11)

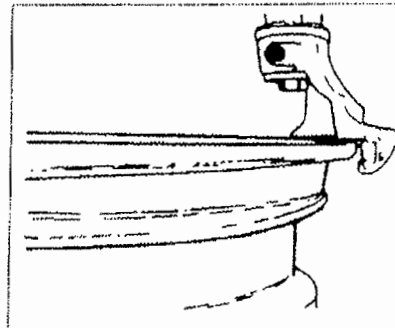
→ Lubricate the bead with thick soap solution before demounting the tire, avoid the damage and facilitating the operation.

2. Repeat above steps on the other parts of the tire to get the tire separated thoroughly from the rim.
3. Set the vertical shaft in the working position, so that the mount/demount head is near the rim. The roller in the mount/demount head should be 2 mm from the rim to prevent scratching the rim. (Fig.12) Turn the lock lever to lock (automatic machine use locking handle 11 to lock the Fig.3)

→ Note: the angle of the mount/demount head is already calibrated according to the standard rim before delivery. The user can re-calibrate it with hexangular spanner for the overlarge or over small rim so as not to damage the tire.



(Fig.11)

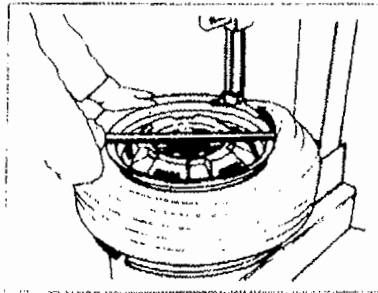


(Fig.12)

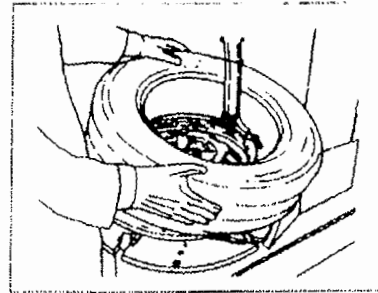
4 Lift the bead onto the mount/demount head with the bead lifting tool, and step on the turntable control pedal 8 (in Fig 2 step on the pedal 8 and in Fig 3 step on the pedal 2) to turn the turntable clockwise till the bead is completely separated (Fig.13). It is suggested to place the mount/demount head about 10mm to the right side of the air valve if the wheel has a tube, so as not to damage the tube.

→ If the demounting is blocked, stop the machine at once, and pull up the pedal 8 (in Fig 2 pull up the pedal 8 and in Fig3 pull up the pedal 2) to turn the turntable counter-clockwise, so as to clear up the block.

5 Take out the tube if there is. Turn over the wheel to let the other side toward the mount/demount head, and repeat the above steps to demount the other side of the bead. (Fig 14)



(Fig.13)



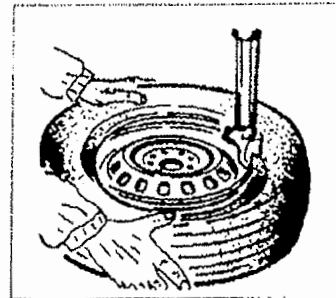
(Fig.14)

→ Keep your hand and body away from the moving parts during the operation. It is very dangerous to wear necklace, bracelet or loose blouse for the operators.

Mounting (Fig15)

→ Make sure that the size of the rim and tire is same before mounting.

- 1 Clamp the rim on the turntable
- 2 Lubricate the bead with soap solution.
- 3 Put the bead on the machine with the left side upward and press down the tire simultaneously, and turn the turntable clockwise to let the bead enter the bead seat.
- 4 Cover the tube onto the rim if there is, and repeat the above steps to mount the upper side of the tire.



(Fig.15)

→ It is not necessary to move the locking handle every time, if the size of the rims is the same, just move the horizontal swing arm.

→ Do not put your hand between the tire and swing arm during locking, so as to avoid body injury.

Inflating (Fig16)

This machine is equipped with a gauge for pressure reading during inflation.

1. Loose the tire from the turntable.
2. Connect the inflator with the air valve on the tire.
3. Press the gun inflator slowly for several times. Make sure the reading on the gauge does not exceed the manufacturer's limit

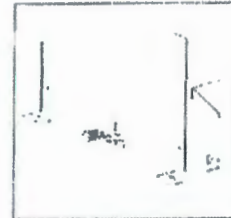


(Fig.16)

Inflate tires with IT system

1. There is a pedal on the side of the machine. This pedal has two positions. The first position is for the inflation for the tire with tube. Step the pedal lightly for several times during the inflation. Make sure the reading on the gauge does not exceed the manufacturer's limit (Fig. 17)

2. The second position is for the inflation for the tubeless tire, step the pedal down fully to the bottom, and then make the pedal to the first position to continue the inflation. Make sure that the reading on gauge doesn't exceed the manufacturer's limit.

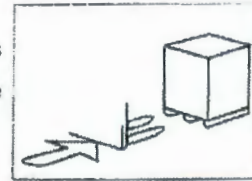


(Fig.17)

→ Keep your hand and body away from the moving parts during the operation, avoid the injury. Make sure the tire is not damaged before the inflation, and the pressure in the tire does not exceed 3.5 bar.

Transport

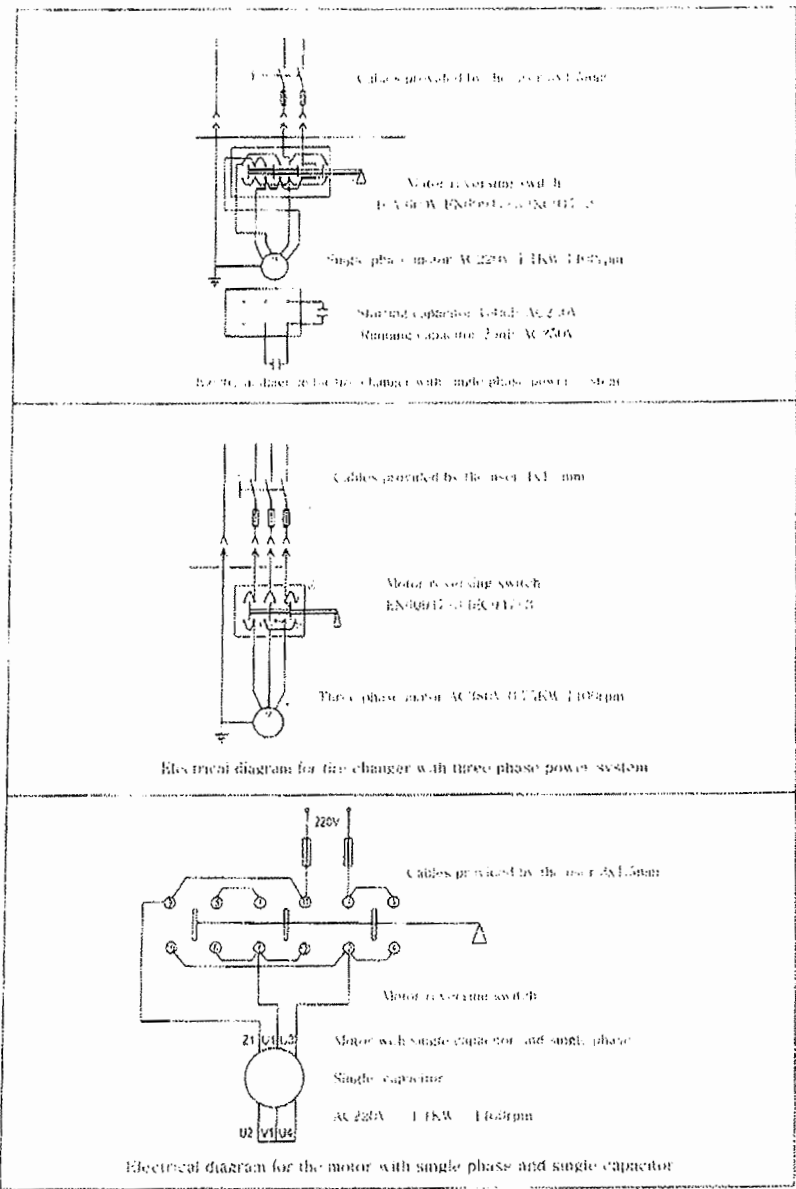
Make sure transport the machine with its original package, and place it according to the marks on the package. The packed machine should be moved by means of a fork lift truck of suitable capacity, insert the forks at the points shown in (Fig.18).



(Fig 18)

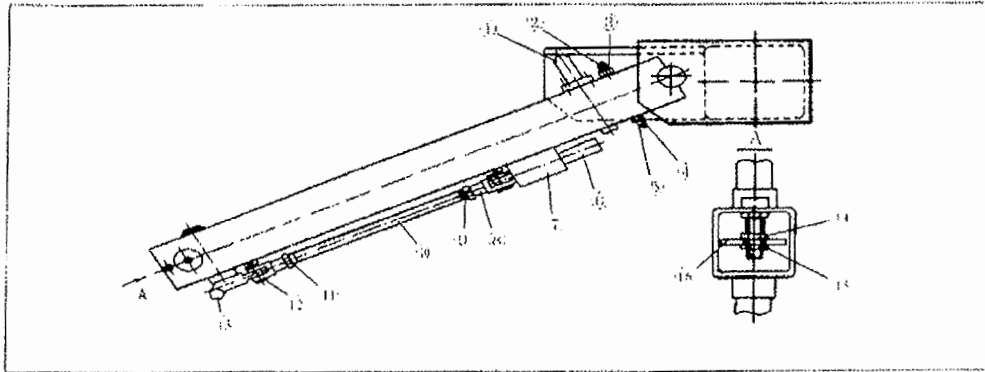
Electrical diagram

→ Make sure the machine is connected with the ground before the operation.
→ The operation of the electricity must be done by the authorized operators.
→ Make sure the steady of the external power supply, if the rated power is 220v, so as to avoid the damage of the electric capacitor.



Adjustment for dual-locking machine (Fig.19)

→ The machines have been calibrated before delivery by trained operator, so don't adjust it at random.
If the horizontal arm does not lock well, do the adjustment as following steps.



(Fig 19)

The adjustment for the hexagonal vertical shaft

Adjust the nut (14) and (15) lightly until it lock well.

The adjustment for the fixing shaft of horizontal arm

*Turn the handle (13) to the position shown as the figure, make the cross adapter (8) reach the fixed plate (7).

*Turn the swing arm to the outside fully, then loose the nut (3), and loose the screw (2) about 20mm.

*Push the fixed shaft (1) by hand to make it slide freely, then rotate the screw (4) out slowly, till the extreme position of fixed shaft (1), then tighten the nut (5)

*Tighten the screw (2) fully, and turn one circle back. then tighten the nut (3)

*If it still does not lock well after the above steps, loose the nuts (11), (9), then rotate the bolt (10) to make it short. then tighten the nuts (11), (9), the fixed shaft (1) will lock well.

The adjustment for the completely automatic machine

Do the adjustment as follow steps, if the vertical shaft does not lock well.

Shut off the pneumatic supply, demount the vertical shaft cover, then adjust the nut near the thread rod by spanner, or lock the screw in front of the plate. then connect the pneumatic supply and observe the locked position.

Do the adjustment as follow steps, if the horizontal arm does not move smoothly, or not lock well.

Remove the cover on the tilt column, adjust the screw M6 on two sides by spanner, meanwhile push the horizontal arm till it can move smoothly, then lighten the nut and adjust the screw in the middle by spanner, lock the horizontal arm and observe the change, till it can only move in the range of 2mm, then lock the nut.

→ Read the user's manual and technical data according to the type of the machine. The users will not be informed, if this manual has some changes.

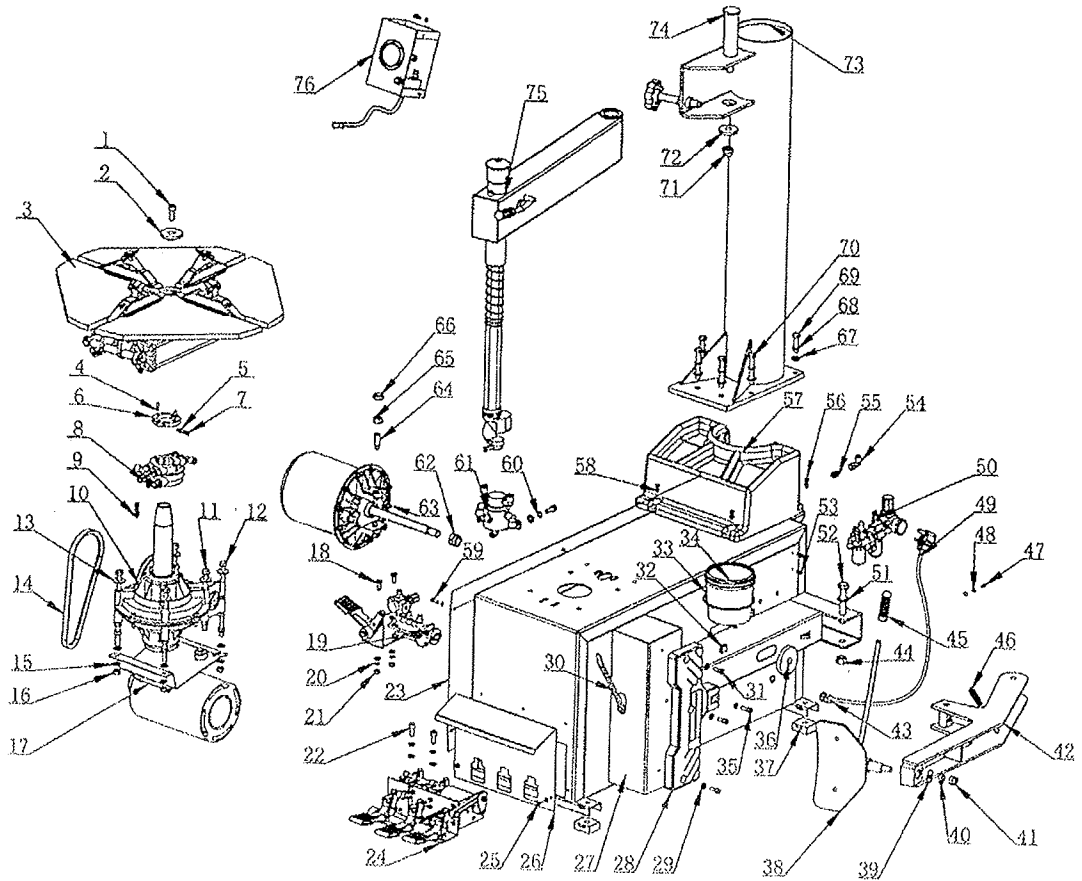




**DAYTONA
AUTOMOTIVE
EQUIPMENT**

**C880
PARTS LIST**

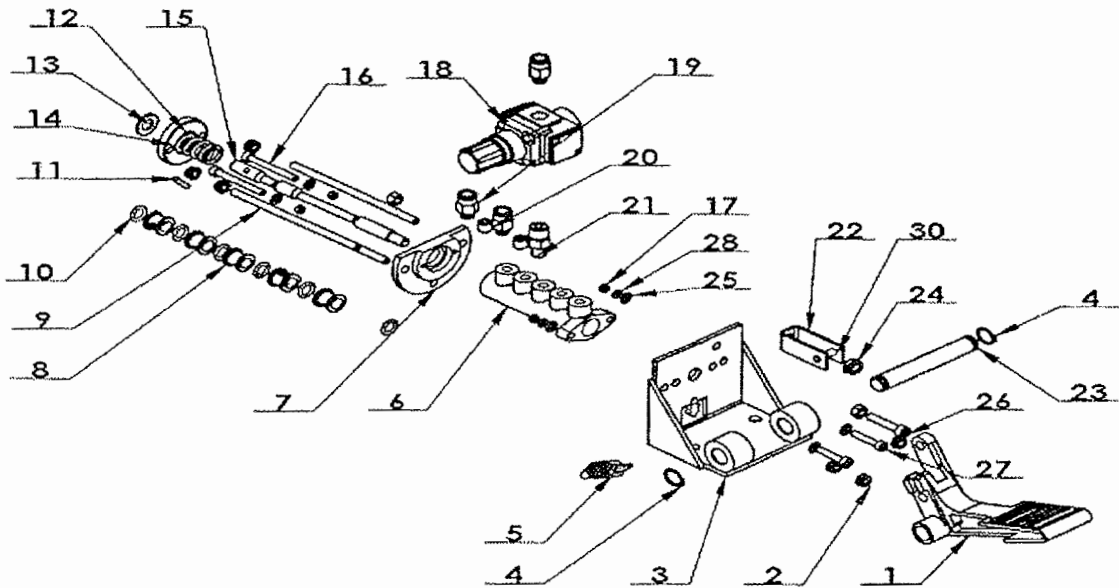
C-880 Tire Changer Parts Breakdown



Reference #	Qty	Description	Reference #	Qty	Description
1	1	Screw M12 x 30-N	39	1	Washer
2	1	Press Cover	40	1	Washer 14
3	1	Turntable Assembly	41	1	Nut M14
4	2	Screw M8 x 20	42	1	Bead Breaker
5	2	Plain Washers 6	43	1	Cable Connector
6	1	Clamp Ring	44	1	Nut M16-N

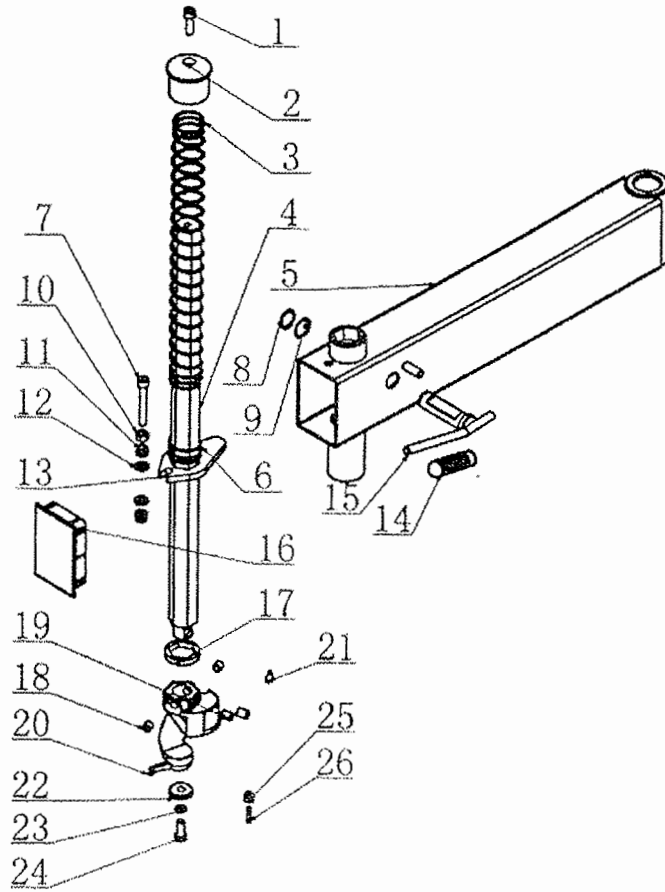
7	2	BPLT M6 x 35 -35-N	45	1	Rubber Cover
8	1	Air Guider Assembly	46	1	Spring
9	1	Straight Key 12 x 45	47	1	Bolt M5 x 10-N
10	1	Gearbox Assembly	48	2	Washer 5
11	2	Bolt M10 x 160	49	1	Cable
12	4	Bolt M10 x 200	50	1	Air Regulator Assy.
13	6	Washer 10	51	1	Washer 16
14	1	Belt A26	52	1	Bolt M16 x 100
15	18	Washer 10	53	2	Screw M5 x 12
16	14	Nut M10	54	1	Tee 08-U02
17	1	Motor Assembly	55	1	Insert Fitting $\phi 8$, R1/4"
18	2	Bolt M8 x 20	56	2	Screw M6 x 20-N
19	1	Quick Inflation Pedal Assy	57	1	Tool Box
20	2	Washer 8	58	16	Washer 6
21	2	Nut M8	59	7	Screw M6 x 16-N
22	4	Screw M10 x 25	60	4	Washer 10
23	1	Side Panel	61	1	Quick Exhaust Valve Assy
24	1	Pedal Assy.	62	1	Nut M18-N
25	7	Screw M6 x 12-N	63	1	Bead Breaker Cylinder Assy.
26	1	Protective Cover	64	2	Screw M14 x 42
27	1	Body	65	2	Nut M14
28	1	Rubber Pad Plate	66	1	Sealed Cover
29	6	Washer 8	67	6	Washer 12
30	1	Crowbar	68	6	Washer 12
31	3	Screw M8 x 20	69	2	Bolt M12 x 45
32	1	Rubber Block	70	4	Bolt M12 x 80
33	1	Bracket	71	1	Nut M16
34	1	Grease Container	72	1	Shaft Washer
35	1	Screw M8 x 25	73	1	Vertical Column
36	1	Rubber Plate	74	1	Vertical Shaft
37	4	Rubber Foot	75	1	Swing Arm
38	1	Bead Breaker Blade	76	1	Inflator Cover Assembly

RAPID INFLATION CHASSIS ASSEMBLY



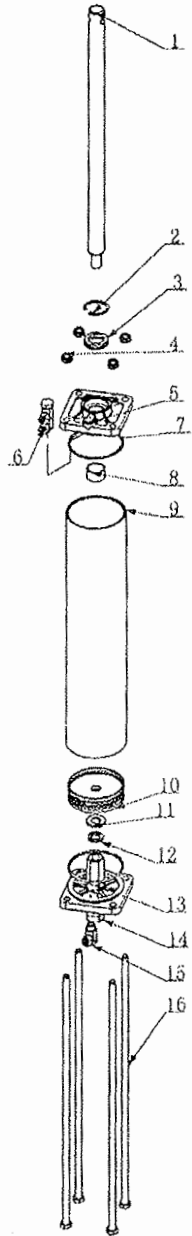
Item	Qty.	Description	Item	Qty	Description
1	1	Pedal	16	2	Screw M5 x 45
2	6	Torque Nut M6	17	4	Nut M5
3	1	Bracket - Valve Switch	18	1	Pressure reducing valve
4	2	Circlip 14	19	3	Insert Fitting $\Phi 8$ R1/8"
5	1	Ext. Spring Pedal	20	2	Screws Plug R1/8" x 10
6	1	Valve - 3	21	1	Fitting
7	1	Tray	22	1	Connect Rod Support
8	5	Spacer	23	1	Shaft
9	3	Bolt	24	1	Torque Nut M8
10	6	O-rings 9.5 x 4	25	6	Washer 5
11	1	Spring Pins 4 x 20	26	1	Screw M6 x 30-N
12	1	Spring	27	2	Screw M5 x 25-N
13	1	Washer SMWC 10	28	2	Washer 5
14	1	Top	29	2	Nut M6
15	1	Valve Axis	30	1	Pin Shaft

ROCKER ASSEMBLY



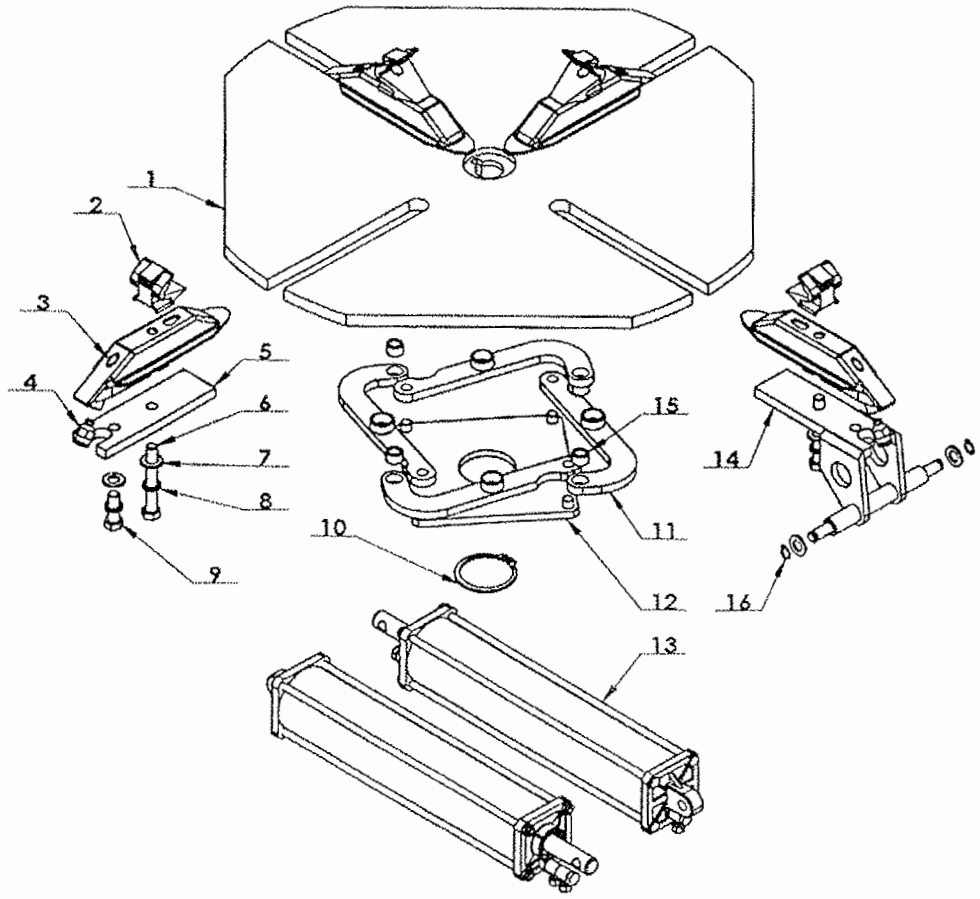
Item	Qty	Description	Item	Qty	Description
1	1	Screw M10 x 30	14	1	Rubber Cover
2	1	Vertical Shaft Cover	15	1	Lock Handle
3	1	Vertical Shaft Spring	16	1	Decorating Cover
4	1	Hexagon Shaft	17	1	Shock Absorber Washer
5	1	Swing Arm	18	2	Screw M12 x 12-N
6	1	Vertical Shaft Spring	19	2	Screw M12 x 16-N
7	1	Screw M10 x 10-N	20	1	Demounting Head
8	1	Circlip 25	21	1	Plastic Cover
9	1	Adjusting Washer	22	1	Press Washer
10	1	Nut M10	23	1	Washer 10
11	2	Nut M10	24	1	Bolt M10 x 25
12	2	Washer 10	25	1	Roller
13	1	Hexagon Lock Plate	26	1	Roller Bolt

CYLINDER ASSEMBLY



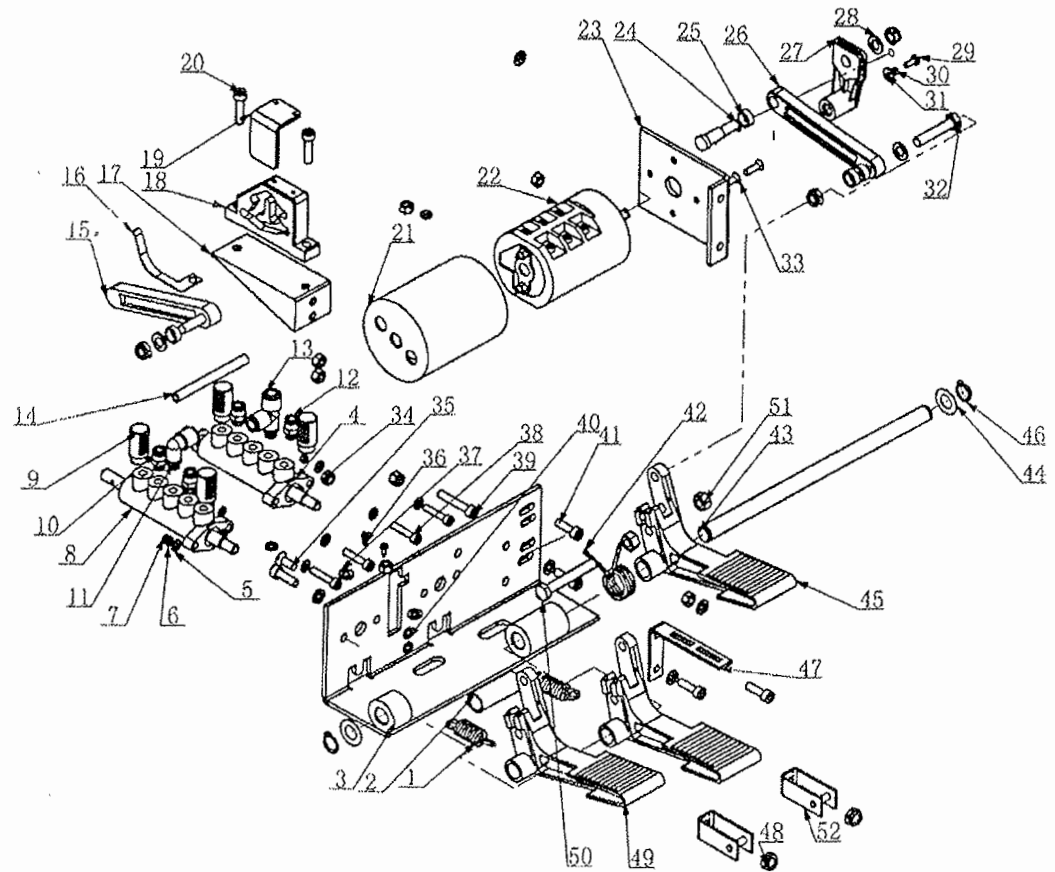
Item	Qty	Description
1	1	Shaft-Cylinder
2	1	Circlip 30
3	1	Seal-Rod, Cylinder
4	4	Nut M8
5	1	Front Cover
6	1	Hinge Tee
7	2	O Ring 65 x 2.65
8	1	Bearing-slide
9	1	Sleeve-cylinder 70
10	1	Piston-W/Wshr, Assy
11	1	Washer 12
12	1	Washer 12
13	1	Nut 12
14	1	Rear Cover
15	1	Hinge Elbow
16	4	Bolt

TABLE TOP ASSEMBLY



Item	Qty	Description	Item	Qty	Description
1	1	Plate-F	9	4	Bolt M12 x 35
2	4	Clamp	10	1	Circlip 65
3	4	Grip Cover Welding	11	4	Connect Plate Assembly
4	4	Insert Fitting D10, R1/8	12	1	Plate-Pivot
5	2	Bottom Chute Pressure Plate	13	2	Cylinder Assembly
6	4	Bolt M12 x 85	14	2	Bracket-cylinder
7	12	Washer 12	15	4	Pull board Sheath
8	8	Washer 12	16	4	Circlip 12 x 1

FOOT PEDAL ASSEMBLY



Item	Qty	Description	Item	Qty	Description
1	2	Spring	27	1	Reverse Lever 8
2	1	Spacer	28	4	Washer 8
3	1	Pedal Support	29	1	Screws M4 x 10
4	1	Valve - A	30	1	Washer 4
5	8	Washer 5	31	1	Washer 4
6	4	Washer 5	32	1	Bolt M8 x 40
7	5	Nut M5	33	4	Screw M5 x 16
8	1	Valve - B	34	10	Nut M6
9	4	Muffler $\Phi 8$	35	1	Screw M6 x 16
10	2	Insert Fitting $\Phi 6$, R1/8"	36	2	Screw ST2.9 x 9.5
11	1	Insert elbow $\Phi 8$, R1/8"	37	7	Washer 6

12	2	Insert Fitting $\Phi 8$, R1/8"	38	4	Screw M5 x 25-N
13	1	Fitting-Tee $\Phi 8$, R1/8"	39	1	Screw M6 x 35
14	1	Hose 8-5mm	40	8	Washer 6
15	1	Valve connecting rod	41	5	Screw M6 x 20-N
16	1	Fork Spring Plate	42	1	Torsion Spring
17	1	Cam Bracket	43	1	Bottom Shaft
18	1	Cam	44	2	Washer - 12 x 0.5
19	1	Cam Plate	45	1	Pedal
20	2	Screw M6 x 25	46	2	Circlip 14
21	1	Switch Cover	47	1	Torsion Spring Bracket
22	1	Switch	48	5	Nut M8
23	1	Switch Support	49	2	Pedal
24	1	Rotation Shaft	50	1	Bolt M8 x 55
25	4	Spacer	51	2	Nut M8
26	1	Connection Rod	52	2	Bracket



