Helper arm
OK-08.3113

Distributor:

Auto Partner SA
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Contents

10. General Information of help arm

10.1 Usage

The right help arm has been designed as a tire changer accessory to help the operator to mount or demount tires, especially when mounting or demounting very low-profile and run- flat wheels of car and light commercial vehicles.

Before any operation of this machine, the operator is requested to read the manual carefully. Do not attempt any operations that are not stated in it. Manufacturer shall not be liable for any injury or damage caused by improper operation.

10.2 Technical data

Working pressure：8～10bar； Noise level：≤70dB(A);

Net weight：81kg①; 69kg②

10.3 Safety regulations

- This device is especially reserved to trained professional personnel or somebody who have experiences on mechanical operation and read this manual carefully.
- This device must be used together with the tire changer appointed by manufacturer.
- Manufacturer won't be responsible for any unauthorized modifications.

11. Structure

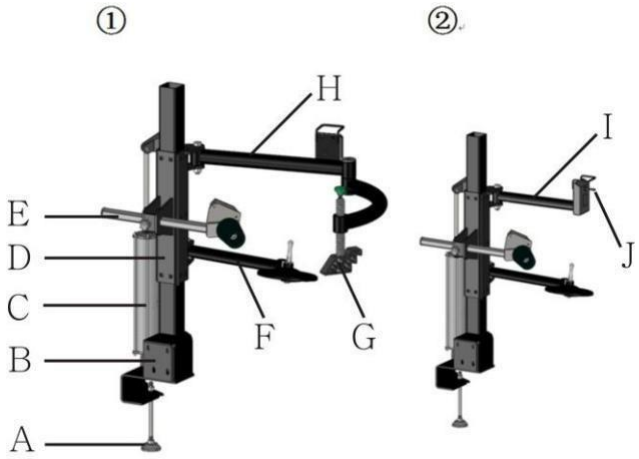

Fig.1

Help arm structure as Fig. 1 shows

No.	Item	No.	Item	No.	Item
A	Support foot	E	Tire pressing arm	I	Tire pressing arm
B	Body support	F	Tire lifting arm	J	Switch Handle
C	Up & down cylinder assemble	G	Tire pressing head		
D	Sliding device	H	head Moveable arm		

Remark：**Part ①is separately installed on the right side; Part ②should be installed together with a left help arm, to make double help arm.**

12. Installation and adjusting

12.1 Installation

NOTE !

- The installation of this auxiliary device should be done by professional personnel.
- Before assembly, disconnect the device from power supply and air source.

12.2 Transport

Move the device with a forklift truck as illustrated in **Fig.2**

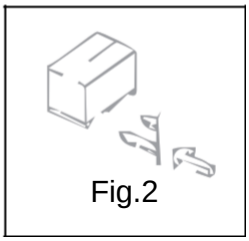

Fig.2

12.3 Workplace requirements

Fig.3 shows maximum space requirements and minimum distance of 500mm from walls.

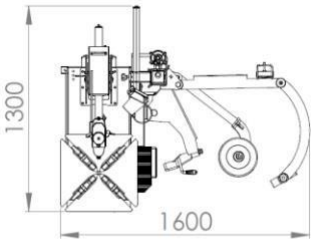

Fig.3

12.4 Assembly

12.4.1 Support foot connection

As Fig.4, Install Support foot C into screw M16 (B), screw C into A completely, keep screw B loose till A is installed onto the main body.

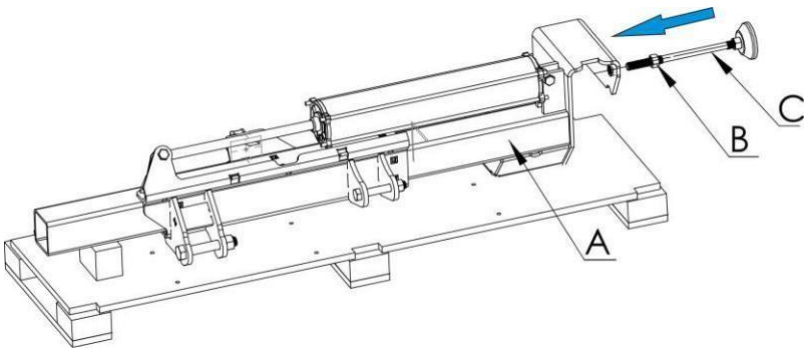

Fig.4

12.4.2 Connect with main body

- Disconnect tire changer from power supply and air source. Open side cover of tire changer.
- As Fig.5, Put arm A onto frame M. Find and match installing holes. Install screw F(M10*35), washer E and flat washer D downward; The same way, as the direction show in Fig. 5, install screw G(M10*35), washer H and flat washer I into frame M, keep screw loose, put plate J on (Plate J is placed between arm and frame), tight six pieces screw with wrench.
- As Fig.5 Adjust support foot, keep it well touched with ground, tighten B (M16) upward.

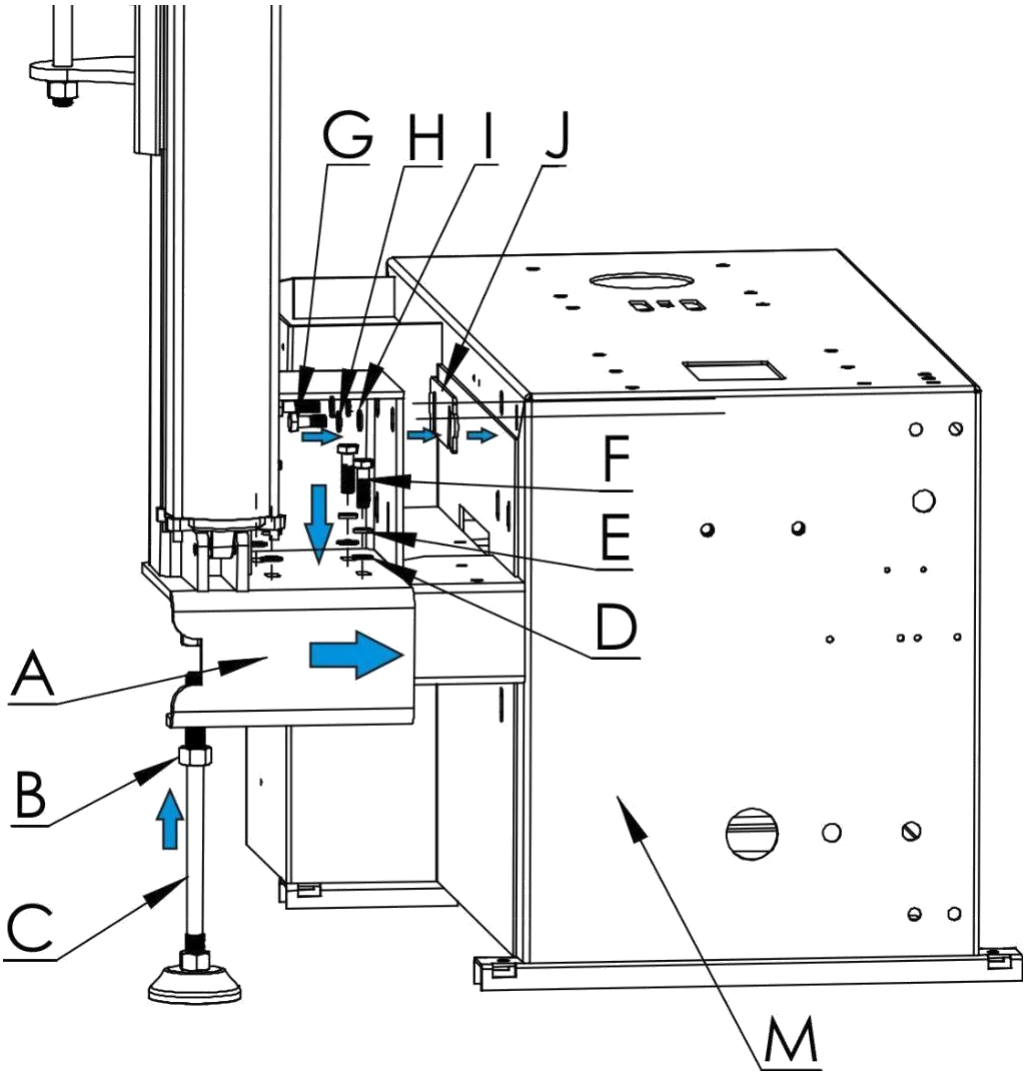

Fig.5

12.4.3 Functional parts assemble

- As Fig.6, Install part B, part C, part E with wrench, screws and flat washers, make sure screws are fastened.

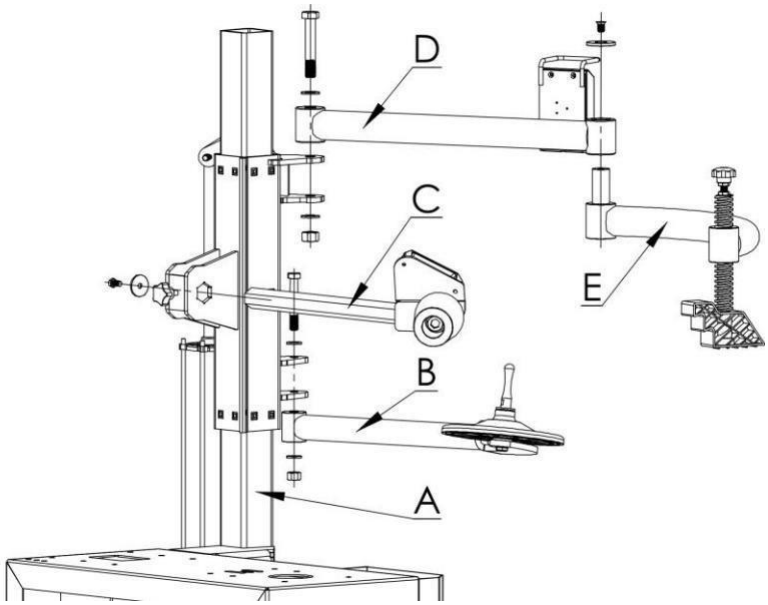

Fig.6

12.4.4 Air connection

- As Fig. 7, Connect air hose Q to four way connection Z through the rear hole of the body.
- Install back side cover of body.

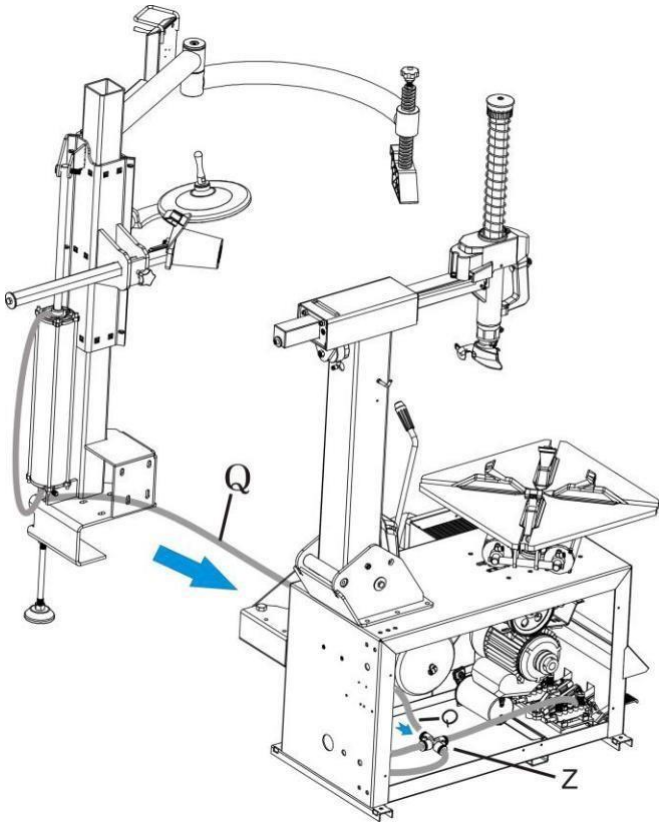

Fig.7

12.5 Test

- The device must connect with power supply and air compressor, and the air pressure from 8 bar to 10 bar is desirable.
- After power and air connected, pull handle switch J, double check if all parts on the help arm working well.
- Safety and Warning sign

Warning :

- **Please change the safety signs if it gets blurred or lost**.
- **Do not operate the machine when safety sign gets lost.**
- **The safety signs must be kept within the sight of the operator.**
- **If necessary, you can place warning sign on the machine as picture on the right.**

13. Operation

This help arm has been designed to facilitate the operations of wheel locking and mounting/demounting. In any case, this device would make these jobs easier on any type of wheel.

13.1 Clamping the tire

- Release the beads both sides of tire as tire changer manual stated, clamp the tire from outside (Fig.8). Depress the corresponding pedal to open the jaws till big enough for rim

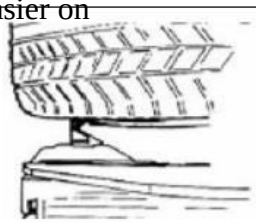

Fig.8

clamping; Put the tire on the turntable, depress the corresponding pedal to close the jaws for clamping the tire.

⚠**NOTE: When using right help arm, outside clamping is strongly suggested, inside clamping is not as safe as outside clamping.**

13.2 Demounting the tire

1） Put tire on the turntable and clamp it, if necessary, loose tire bead as Fig.9.

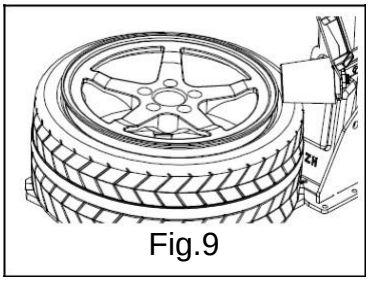

Fig.9

- Pull pressing arm out to make sure tire pressing roller is above tire edge, do not touch with the rim.
- Turn switch handle downward, the roller press the tire. Depress the pedal to turn the turntable to loosen the bead.

⚠**NOTE**：**Lubricate the bead before operation** 2） Demounting the upper bead

- Close mounting head A to upper bead. Pull out pressing arm C and Pressing roller is placed on the tire. Turn switch handle D downward, Insert lifting lever B into clearance between the rim and bead as Fig.10.
- Raise pressing arm C and pull it back. Turn pressing head E to the opposite side of the mounting head, press tire by turning switch handle D downward, pull lever B on the mounting head and make it parallel with the surface of rim as Fig.11.
- Rise help arm， push tire pressing head to its non-working position.
- Depress pedal Z to turn the turntable, with the help of mounting head, the upper bead will be detached off as Fig. 11.

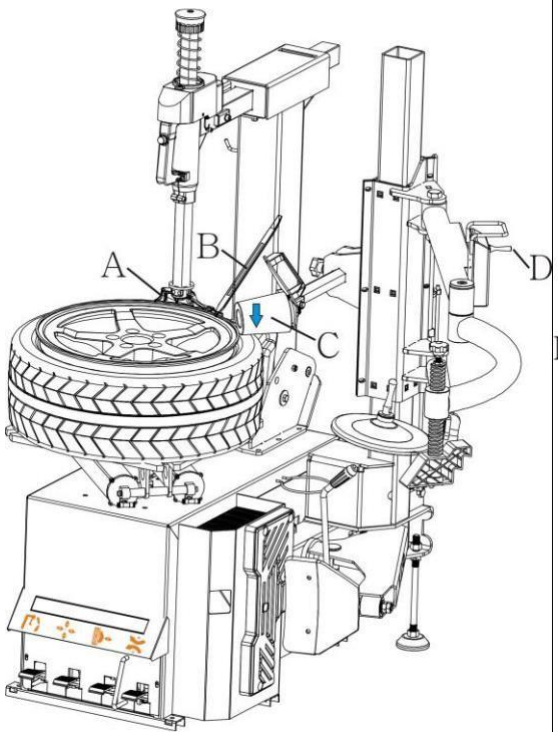

Fig.10

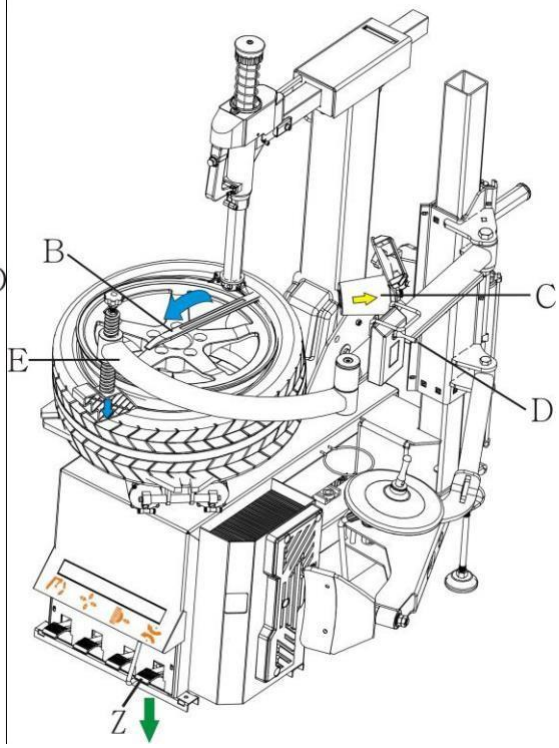

Fig.11

3）Demounting the bottom bead

□ Rotate roller arm F to make tire lifting roller under tire, and make sure it is close to the tire other than touch rim as Fig.12.

□ Depress the pedal Z to turn the turntable, meanwhile turn switch handle upward to rise slowly to detach the bottom bead with the tire lifting roller F as Fig.12.

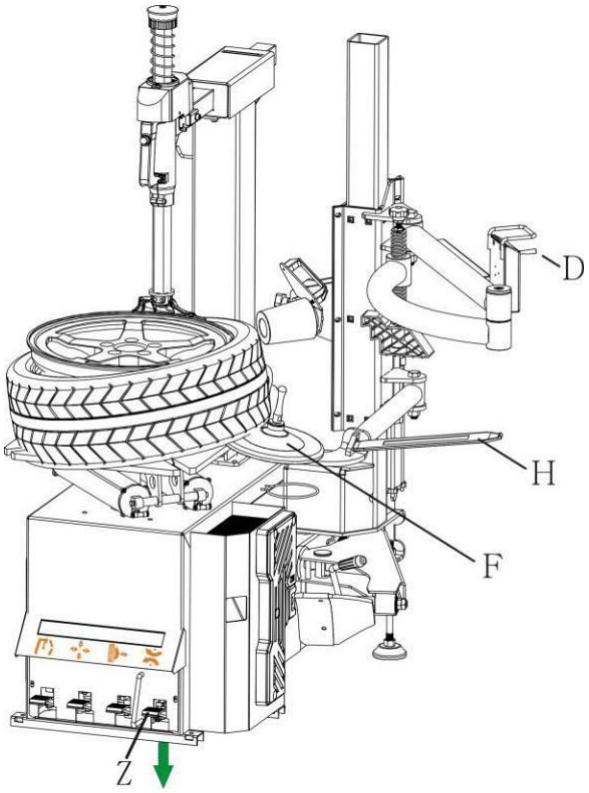

Fig.12

13.3 Mounting tire

□ Lubricate tire bead, let rim wear tire, hang tire on the rim, move mounting head to the edge of rim and closely touched, depress the pedal to turn the turntable and mount bottom bead.

□ Turn switch handle D upward to raise help arm, pull pressing roller C on the tire; turn pressing head E to the position as Fig.13. Turn switch handle D downward and help arm goes down, press roller press tire under mounting head, to protect tire bead, mounting head at the same time press tire bead below the rim as Fig.13.

⚠**NOTE**：**Rim can not be pressed by pressing head and roller during operating, it is very dangerous;**

□ Press pedal Z to turn the turntable together with tire pressing head, mount upper bead with the help of mounting head as Fig.13.

⚠**NOTE**：**Stop operation if stuck occurred, to protect tire, lift pedal Z, turntable will go backward. Adjust pressing roller and pressing head, operate as Fig.13 again.**

⚠**NOTE**：**People except the operator must stay away from the machine during its operation.**

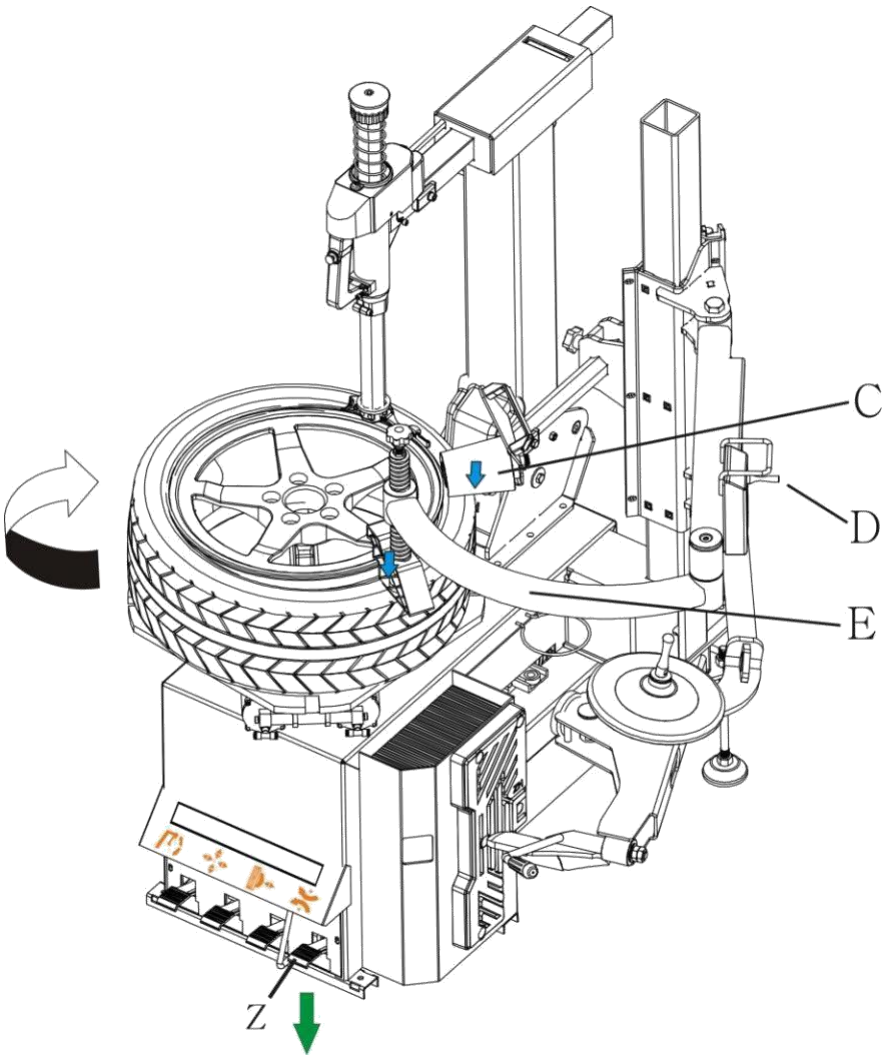

Fig.13

14. SPARE PARTS LIST

This list is only for the reference of the maintenance personnel. The manufacturer will not be held responsible for any use other than the designed purpose.In case any damage occurs, please contact your dealer or factory with the corresponding codes in the list

SPARE PARTS LIST								
No.	**code**	**Description**	**Qty.**		**No.**	**code**	**Description**	**Qty.**
1011812 主机①（图 **14**）								
R801	2065669	column	1		R830	6000426	Washer 12*37*3	1
R802	2065675	Main slide	1		R831	3002101	Lifting roller	1
R803	2065681	Slide	1		R832	2065705	Pin of Lifting roller	1
R804	2065716	Adjust handleM12*35	1		R833	6000135	Flat washer12*20*2	1
R805	6000106	Screw M8*25	6		R834	6000212	Screw M12*30	1
R806	3005267	Slide	10		R835	2065709	pressing roller rod	1
R807	6000148	Nut M8	6		R836	6000103	Screw M8*16	2
R808	2065687	Arm	1		R837	2065714	Handle	1
R809	2065697	Screw M20*120	1		R838	6000428	Nut M20	1

R810	6000141	Washer 20	2		R839	6000191	Screw M8*30	1
R811	6000146	Nut M20	1		R840	6000139	Flat washer 8*22*2	1
R812	4000301	Risefall control valve	1		R841	3005105	Washer 32*10*10	1
R813	3003201	Valve cover	1		R842	2065712	Fix plate	1
R814	3005074	IPL 6-01	2		R843	3005270	Pressing roller	1
R815	3005066	IPL 8-01	1		R844	6000141	Washer 20	1
R816	2065716	Knob M12*35	1		R845	2065715	Screw M20*95	1
R817	6000381	Nut M12	1		R846	2065713	Washer	1
R818	2065692	Rotating arm	1		R847	6000116	Screw M10*15	1
R819	2065696	Rod	1		R848	6000184	Screw M10*35	6
R820	3005200	Pressing head	1		R849	6000197	Washer 10	6
R821	6000134	Washer 10*22*2	1		R850	6000134	Flat washer10*22*2	6
R822	6000116	Screw M10*15	1		R851	2065720	Base plate	1
R823	6000425	Screw M12*20	1		R852	6000396	Screw M16	3
R824	2065698	Washer	1		R853	6000420	Screw M16*285	1
R825	2065700	Lifting plate	1		R854	2065719	Support foot	1
R826	2065707	Screw M16*105	1		R855	6000143	Nut M10	2
R827	6000136	Flat washer 16	2		R856	6000134	Washer 10*22*2	4
R828	6000145	Nut M16	1		R857	6000290	Screw M10*60	2
R829	2065541	Handle	1					

2065717 Rise and fall cylinder assemble（Fig.14）								
R860	**2065717**	**Rise and fall cylinder assemble**	1		868	6000135	Flat washer 12	1
861	2065536	Piston rod	1		869	6000242	Screw M12	1
862	2039601	Front cover	1		870	2065538	Rod	4
863	3005043	O seal 82*2.6	2		871	2065539	Cylinder	1
864	3005027	Seal	2		872	2039701	Rear cover	1
865	3001001	Y seal 20*36*8	1		873	6000148	Screw M8	8
866	3001101	Gland	1		874	3005074	IPL 6-01	2
867	2039801	Piston	1					
1011814 main body②（Fig.15）								
S908	**2065822**	**Arm**	**1**					

Remark：Other spare parts in Fig. 15, please refer to 《①spare part list》.

15. Exploded Drawings ①

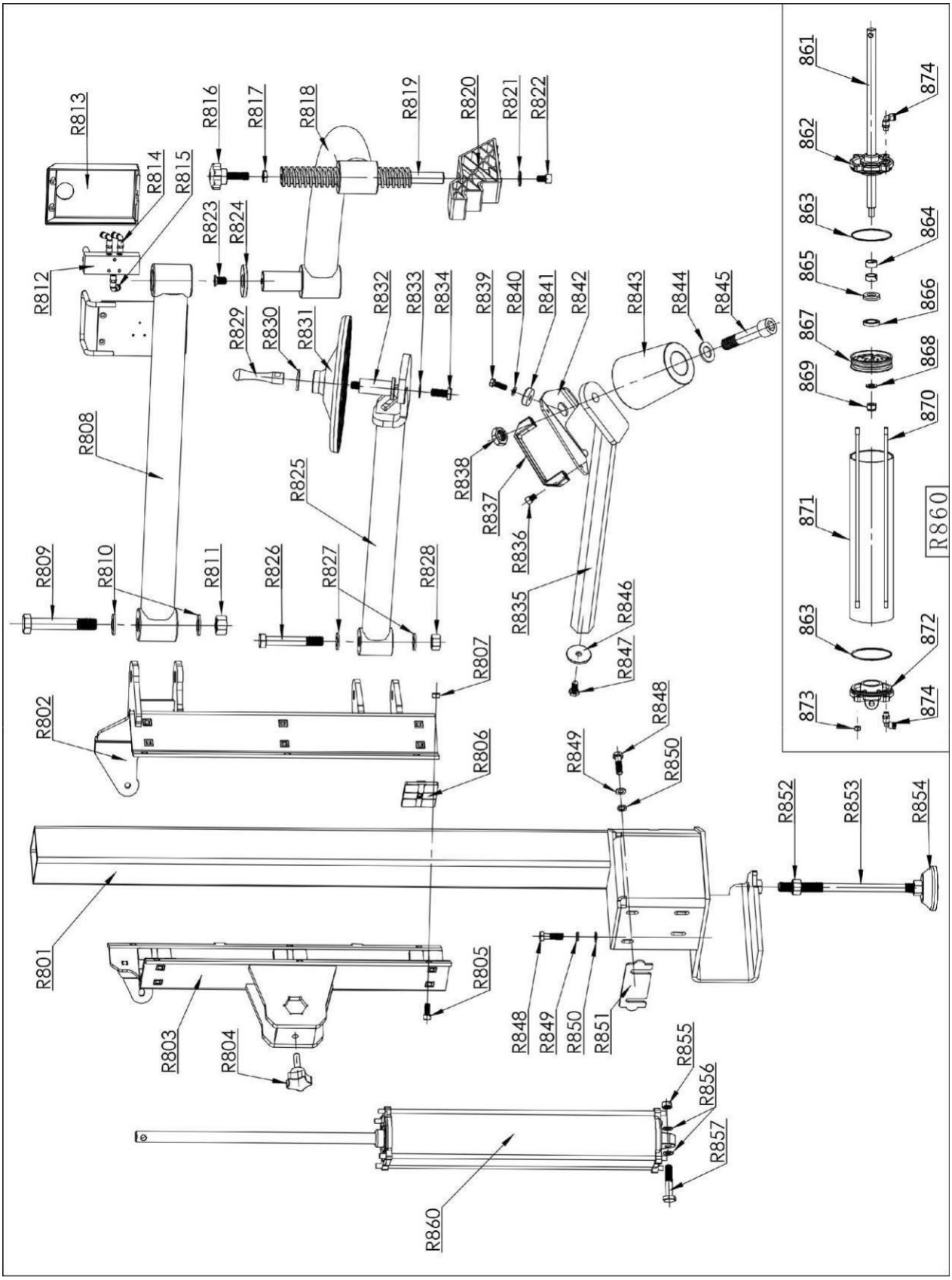

Fig.14

16. Exploded Drawings ②

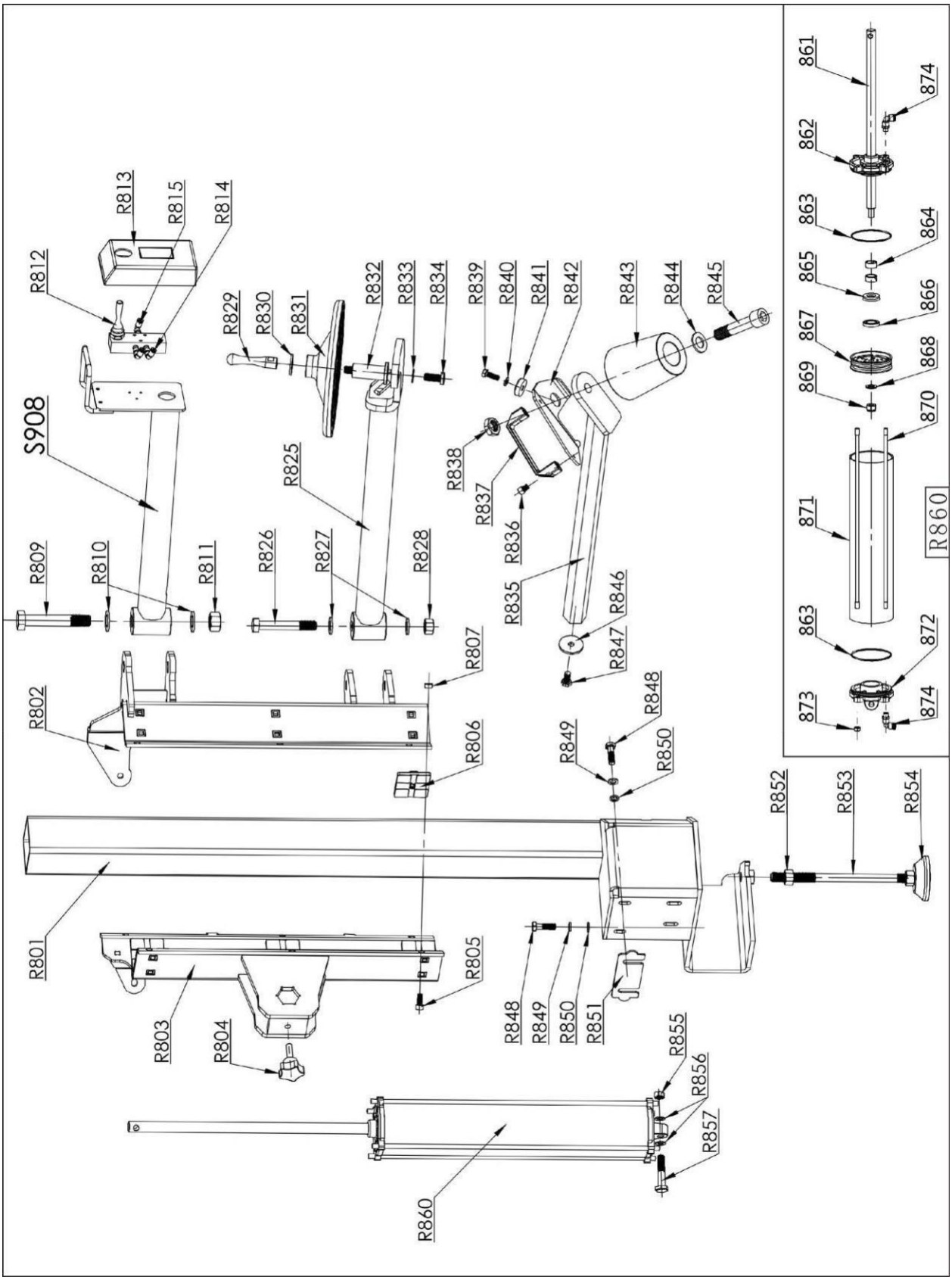

Fig.15

Appendix 1：**Air passage diagram**

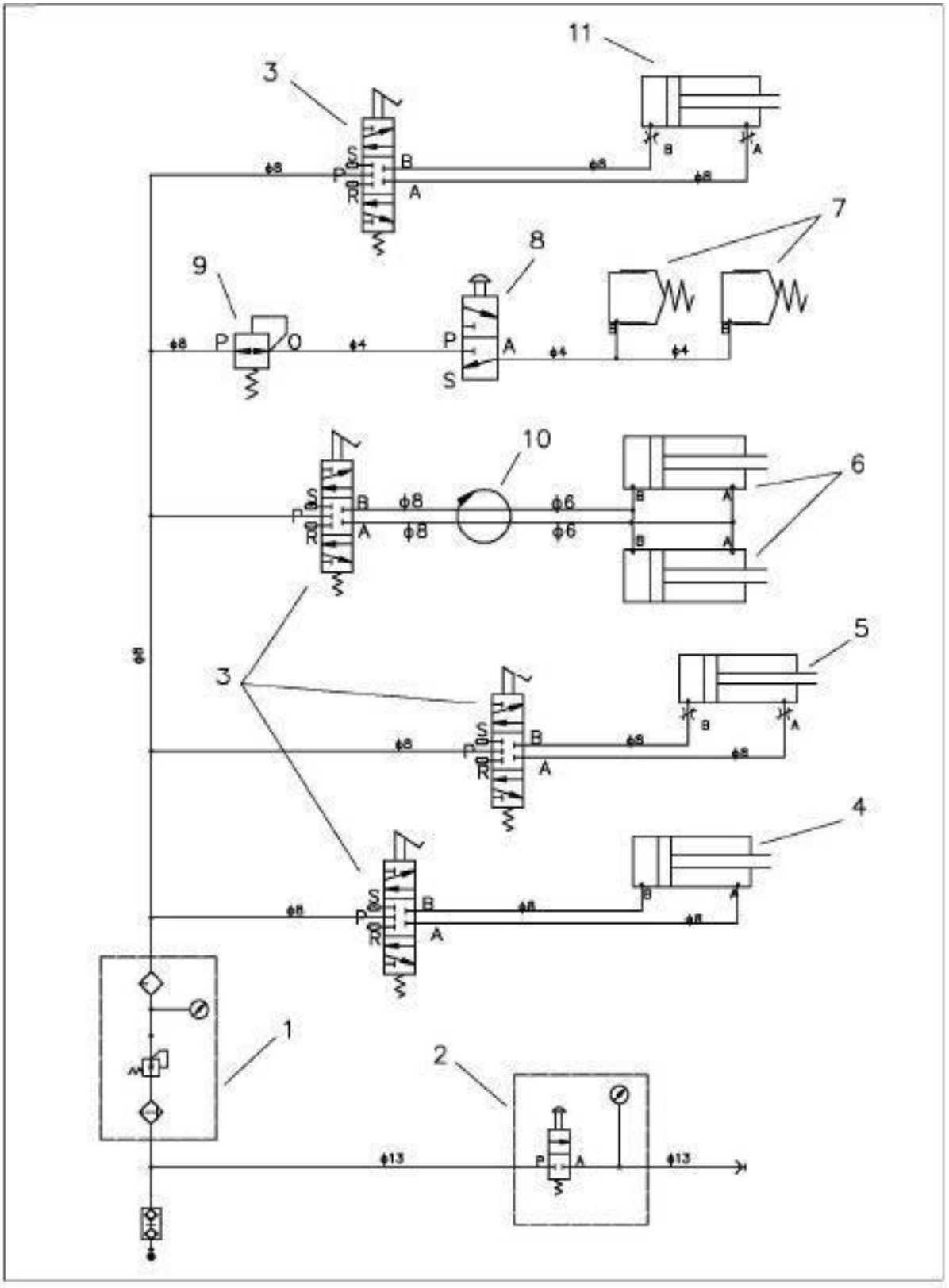

Fig.16