ASSIST ATM

240/241 ASSIST ARM INSTALLATION AND OPERATION MANUAL

VERSION: A01

Dear customers,

Very pleased that you will purchase and use the tire changer produced by our company.

We are the company with reputation of quality. We sincerely wish to produce quality goods under the ISO9001Quaality system and get the EU CE certificate to help you promote your business.

Please read carefully this user manual before installation and use of the machine and keep the manual well for check at any time.

WARNING

- This instruction manual is the important part of the product. Please read it carefully.

- The manufacturer will not be responsible for the damage or injury caused for the operation not properly and out of the range.

- The 240 is the assist device for 890 series machine and 241 is for 870. The assist arm can be better to assist the tire changer to mount and demount the flat and hard tire.

Must cut off the power supply and air supply of the main machine before installation.

1. Basic structure

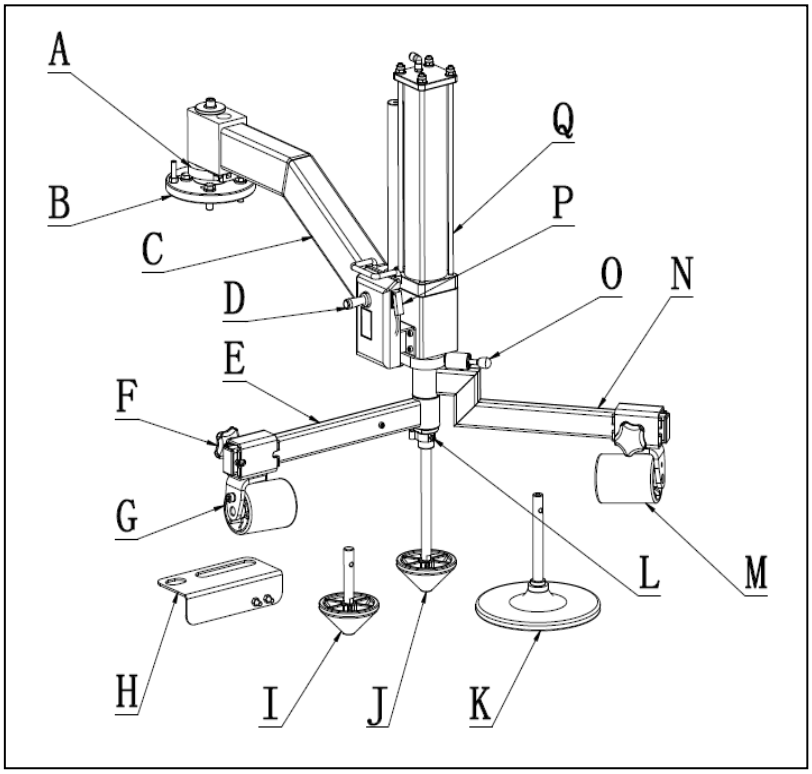

FIG1

A. locking block B. fixed base C. main rotation arm D. control valve E. rotation pressing arm F. locking rotary knob G. press roller H. accessary bracket I. short centering pestle J. long centering pestle K. lifting plate L. quick-changing latch M. fixed press roller N. fixed press arm O. conversion pin roller P. control valve Q. lifting cylinder

2. Installation

2.1 open the package and install the fixed base (FIG2-1) onto the top of column(FIG2-4); install the fixed base limit jackscrew (FIG2-2)like the picture showing the direction; install the 4 pieces of M12*40 screw and flat washers (FIG2-3).

Note: do not tighten the 4* screws totally.

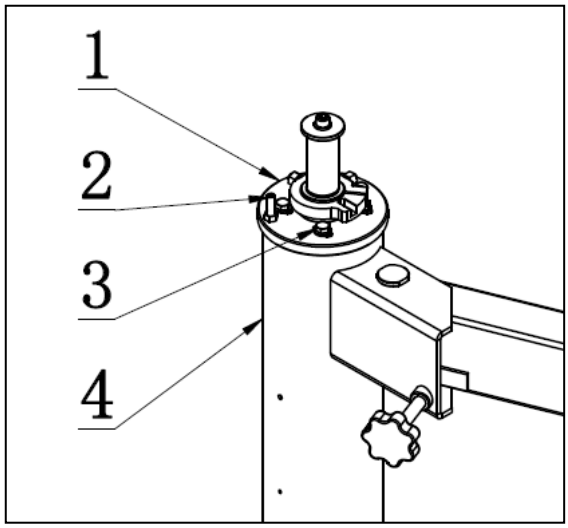

FIG2

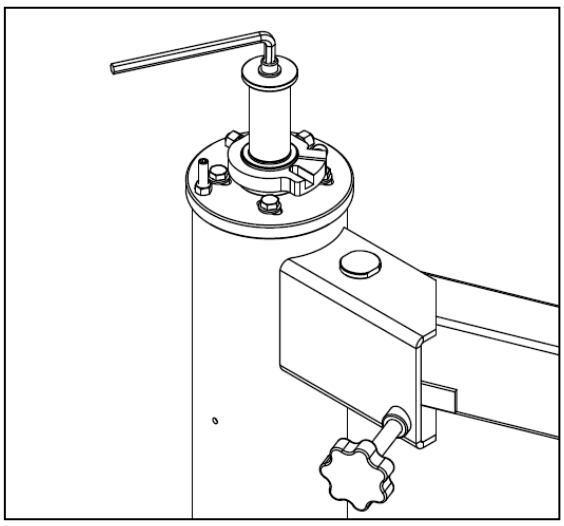

FIG3

2.2 remove the big washer from the fixed base top using the 10# Allen key like FIG3.

2.3 install the assist arm (FIG4-1) onto the fixed base (FIG4-2) and swing it slightly till the assist arm slides to the bottom then install the big washer and tighten it using the 10# Allen key(FIG5).

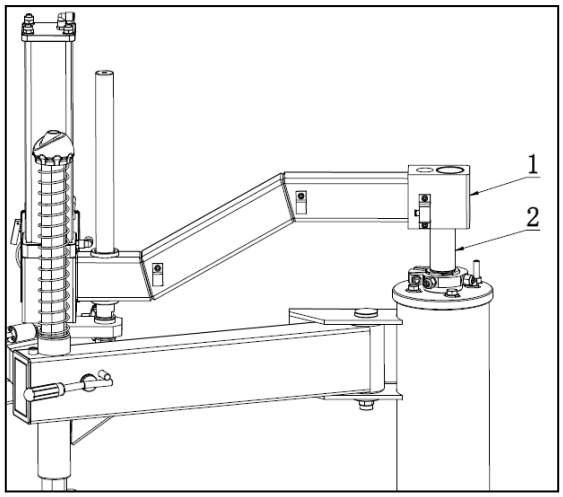

FIG4

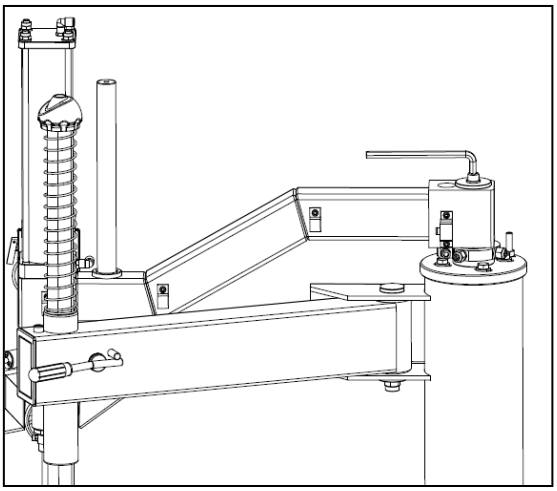

FIG5

2.4 remove the press arm rotation shaft using monkey wrench (FIG6-1).

Note: when remove the press arm rotation shaft, must hold the connect plate (FIG6-2) and guide rod (FIG6-3) to avoid the injury and damage.

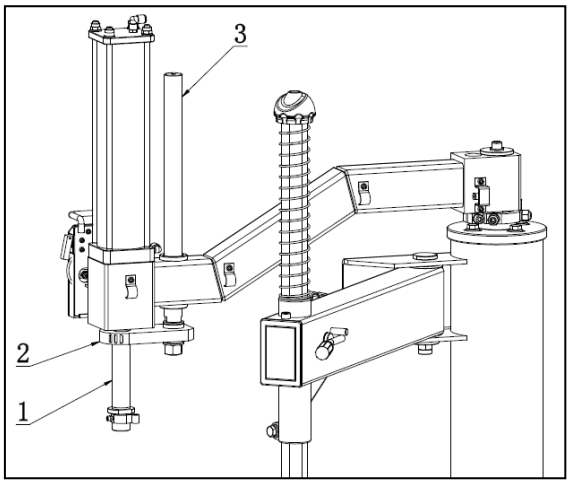

FIG6

2.5 connect the rotation arm (FIG7-1) and fixed arm (FIG7-2) using the press arm rotation shaft which removes in the step 2.4. Pay attention to the position of the two arms. Then insert the shaft to the hole at the bottom of the cylinder and fix it like FIG8.

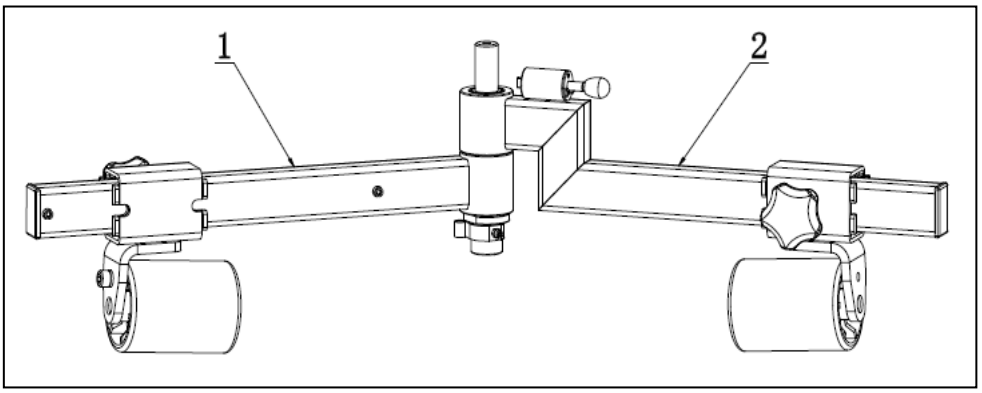

FIG7

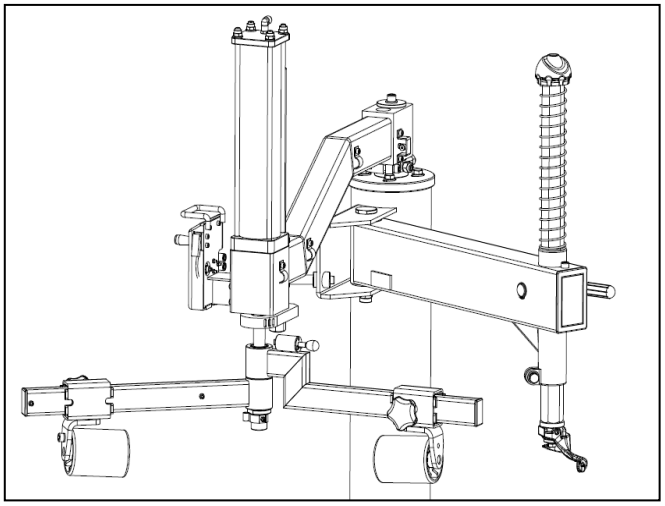

FIG8

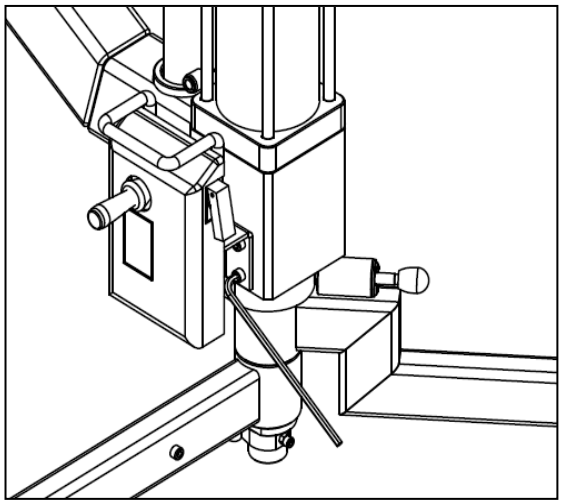

FIG9

2.6 fix the handle control box to the main rotation arm side with 4*M6X10 screws by 5#Allenkey like FIG9.

2.7 install the accessary bracket (FIG1-H) to the tire changer back side using 2*M8X25 screws and nuts like FIG10. After installation, put the short centering pestle (FIG1-I) and long centering pestle (FIG1-J) and lifting plate (FIG1-K) on the bracket for using like FIG11.

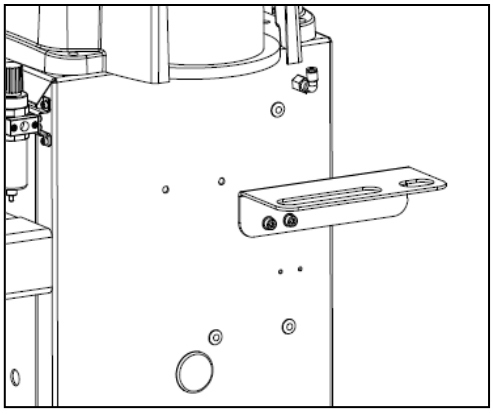

FIG10

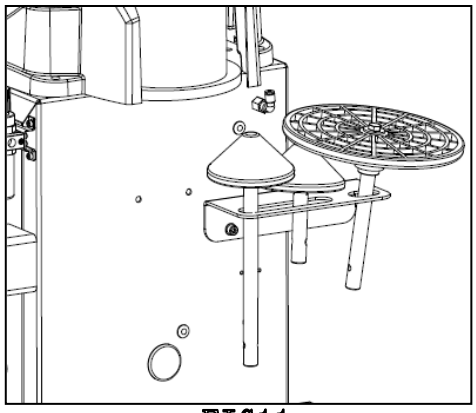

FIG11

2.8 adjusting the centering: like FIG12, install the centering pestle and put it over the center of turntable then tighten the locking block screw (FIG13-1) using 8# Allen key. And tighten the four pieces of fixed base screws (FIG13-2) and two pieces locking block screws (FIG13-3) using 18# spanner.

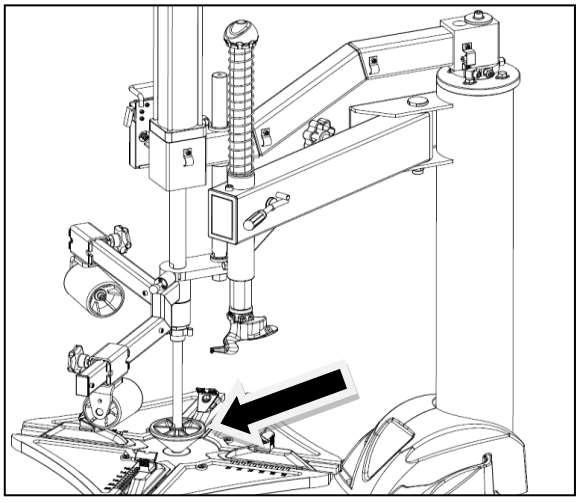

FIG12

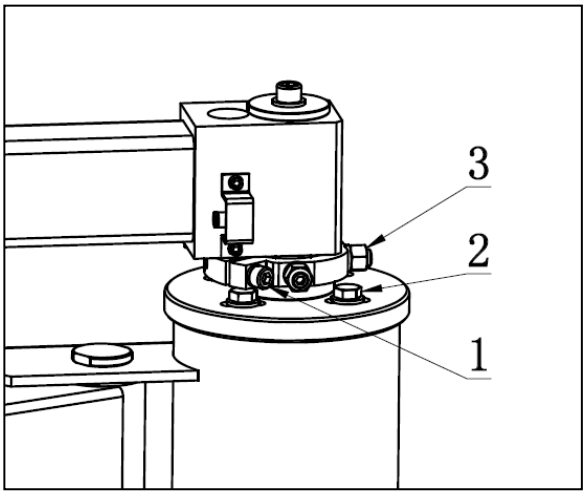

FIG13

2.9 connect the Y-TEE and air regulator then connect all the PU hose like FIG14.

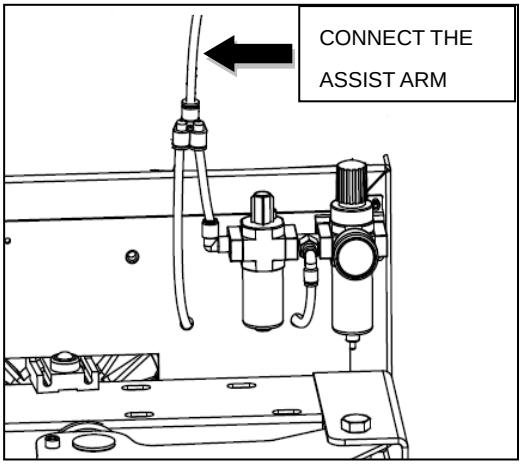

FIG14

3. operation

The main rotation arm (FIG1-C) has the automatic centering function. The main rotation arm can lock automatically when it moves to the center of turntable. Press the control valve (FIG1-P) to release the lock.
The assist arm must use with the suitable tire changer.

3.1 demounting operation

- When choose clamp outside method: open the clamps till the size bigger than rim diameter 2-3mm then put the tire on turntable. Choose the suitable centering pestle (FIG1-I or FIG1-J) according to the width of tire and rotate the arm over the center of the rim like FIG16. Operate the lifting cylinder move downward to make the rim close the clamps then step the pedal to clamp the rim (FIG17). Remove the centering pestle.

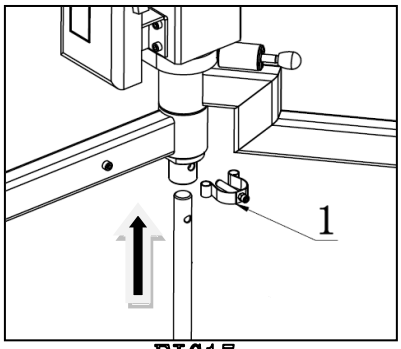

FIG15

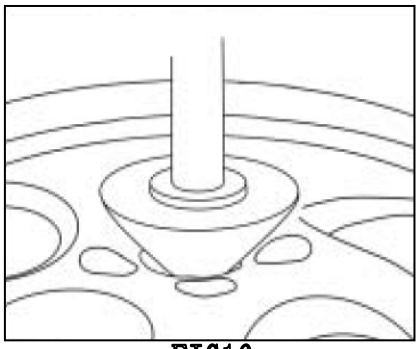

FIG16

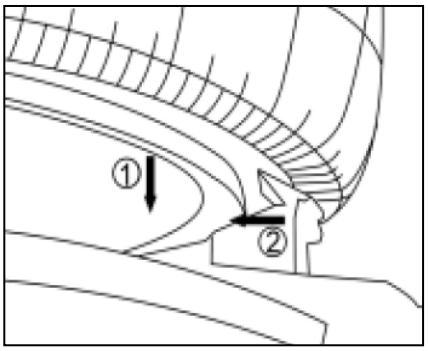

FIG17

- Lock the demounting head at proper position.
- On the basis of rim size, choose the proper groove in the connect plate (FIG18-2) and insert the shift pin (FIG18-1) to lock. Put the fixed press roller (FIG1-M) on the edge of demounting head then move the cylinder downward to press the tire down to 3-5cm. insert the crowbar into the gap between the demounting head and tire lip (FIG19). Lift the cylinder.

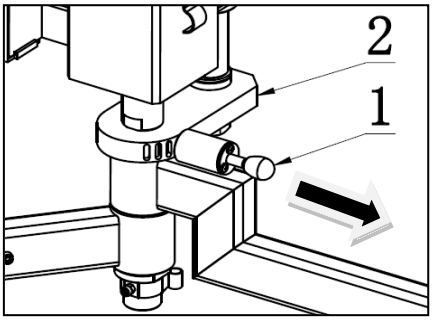

FIG18

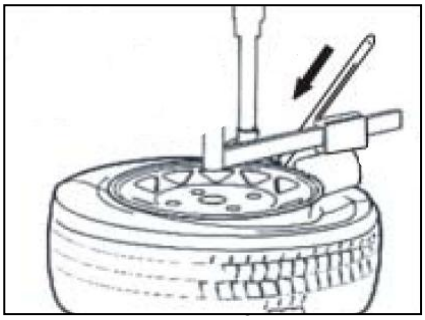

FIG19

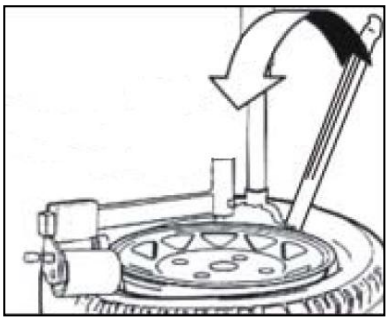

FIG20

- Rotate the rotation arm (FIG1-E) to the tire opposite side and press the roller on the edge of tire then go down the cylinder to 5-6 cm. pull the crowbar like FIG20 to lift the tire lip onto demounting head. Lift the cylinder and step the pedal to rotate the motor to demount the tire.

Note: can use the lifting plate (FIG1-K) to assist lifting the tire when demount the lower tire side like FIG21.

3.2 mounting operation

Need to check the tire size and rim size before mounting the tire to rim.

- Mount the lower tire side as normal operation without using the assist arm.
- Adjust the upper tire side position well and put the two arms at proper position like FIG22. Adjust the two press roller to the edge of rim 1-2cm then go down the cylinder 5-7cm in order that the tire lip is lower than groove. Step the pedal to rotate the turntable. Pay attention to the tire situation when the tire just 10-15cm out; if there has tear sign or the motor blocks, release the pedal at once and lift the pedal to rotate oppositely. Repeat the operation till mount the tire fully.

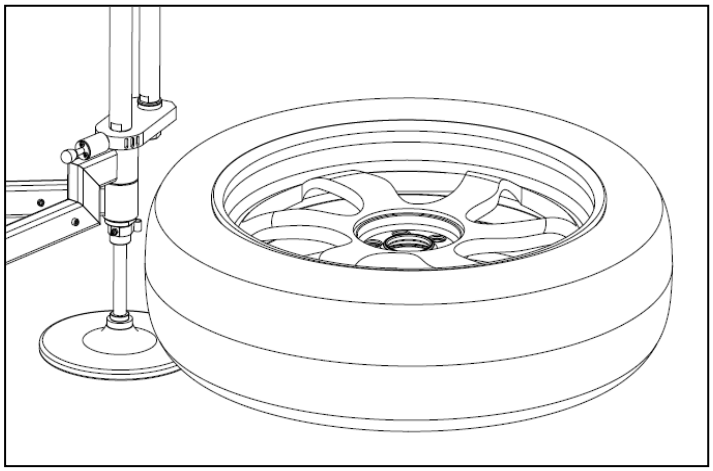

FIG21

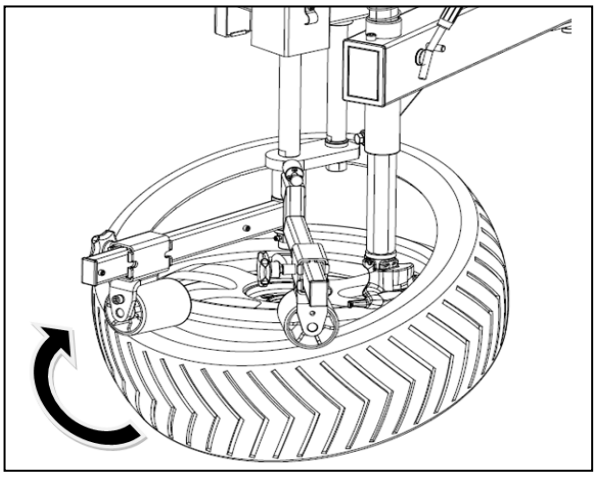

FIG22