

## CHAPTER VI INSTALLATION & OPERATION OF THE ASSISTANT ARM

### 6.1 INSTALL THE LEFT ASSISTANT

6.1.1 PL330 left assistant can be equipped on the tire changer which can handle the tire with the diameter of 20" to help complete the demounting the stiff and low profile tire. We can use it to handle the work which is difficult and impossible to do only by the operators.



Before installation, the power and air source must be cut off !

6.1.1 The left and right side of the base plate of body of the tire changer which can handle the tire with the diameter of more than 20" all have the installation hole for the left assistant prepared. Before installation, you can remove the side panel and take off the installation rubber plug. If there being the tool box, you should detach the tool box.

6.1.2 Detach the package of the PL330assistant. Check the accessory according to the pack list. After confirmation, take out the base assembly (FIG 29) and install the screw and washer on it.

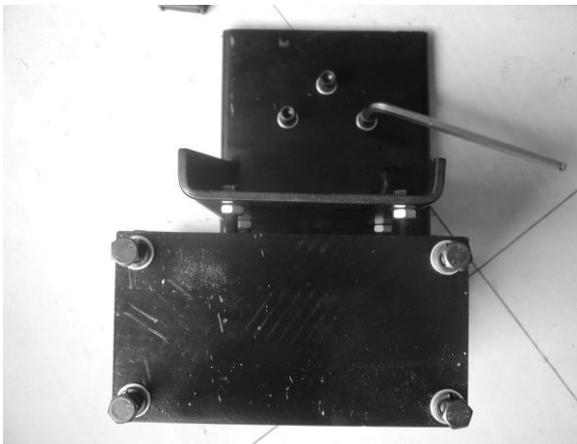


FIG 29



FIG 30

6.1.3 Push the platform of the base plate of the base assembly into the body through base plate on the left-back side of the body. Align the thread hole to the reinforce hole and use the bolt and washer to fix. (FIG 30) .

6.1.4 Install the body bracket (FIG 31-1) on the seat assembly. Align. Use the screw removed before to fix and not tighten

6.1.5 Use the fix supporting bracket (FIG 32) to connect the body bracket and the body and insert the screw to fix.

6.1.6 Connect the air source hose (FIG -2) and use Y Tee to connect the outlet hose and the other end connect with the inlet of the assistant pressure adjusting valve.

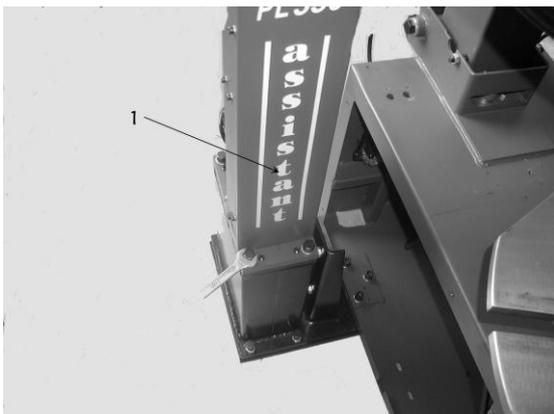


FIG 31

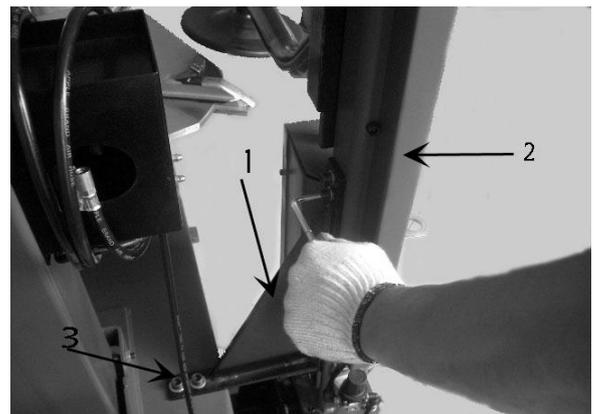


FIG 32

6.1.7 The press block includes the taper block (FIG34-1) and upper press block (FIG34-2) and the taper block can twist into the upper block. When press the rim center (FIG35), need to use the taper block and just need the upper block when do the common operation and put the taper one onto the bracket(FIG37).

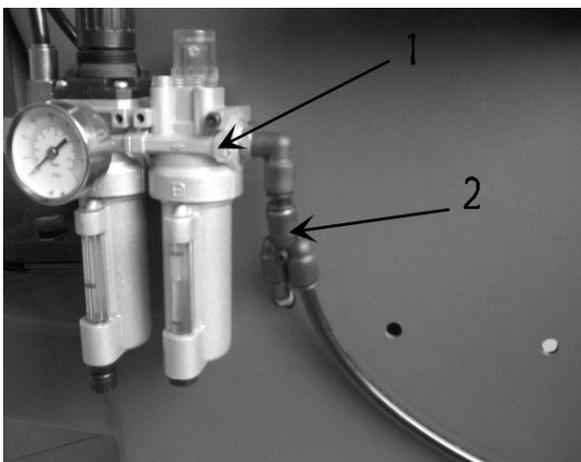


FIG 33

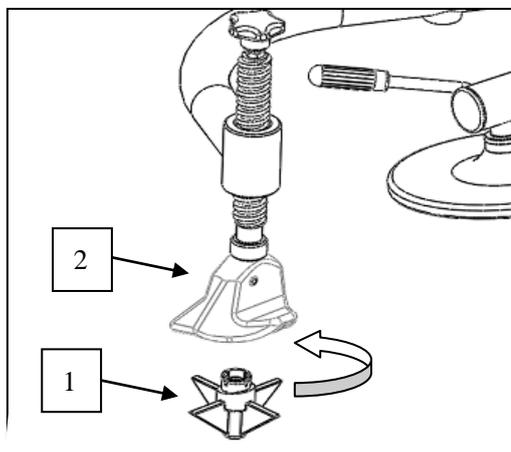


FIG 34

6.1.8 According to the FIG36, fix the fix bracket on the body and fixes the tool box on the fix bracket and then use the lock nut to tight.

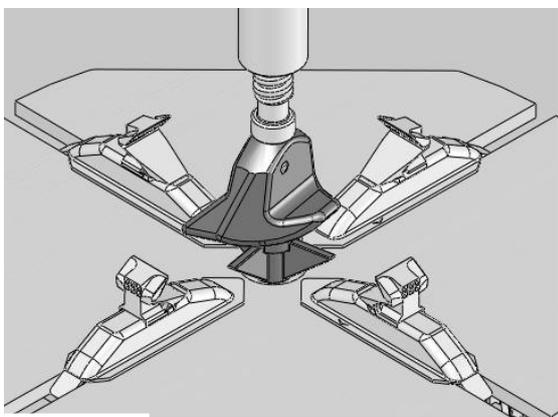


FIG 35



FIG 36

6.1.9 Loose the nut below the base and turn the screw clockwise until it against the ground and tight (FIG38) and install The side panel and tool box removed in the 6.1.1. At this moment, the installation of the left assistant completed.

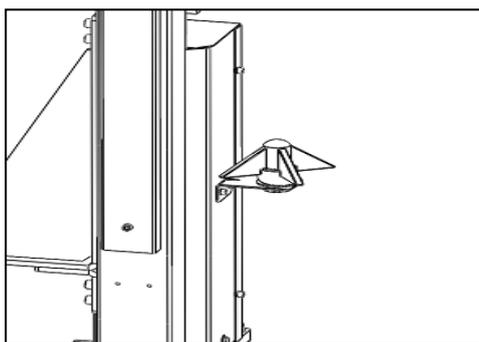


FIG 37

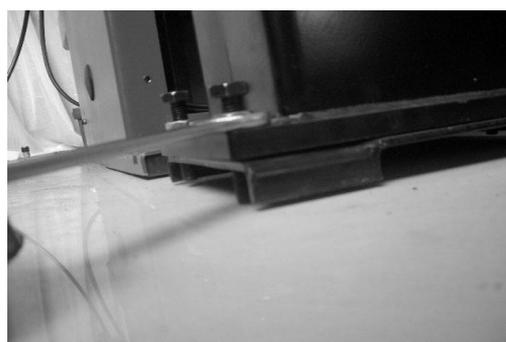


FIG 38

## 6.2 USE THE LEFT ASSISTANT

6.2.1 After detach the tire from the rim according to the instruction of the chapter IV, we can execute the following operations.

6.2.2 First, position the claw according to the dimension of the tire and then clamp the rim by the claw and position the tire press cone roller at the center of the rim (FIG 34). Push down the manual valve to press down the rim until the external rim of the rim is lower than the surface of the claw. At this moment, you can immediately lock the rim. Lift up the support arm and place it at the working position and take off the press cone roller and place it on the support.

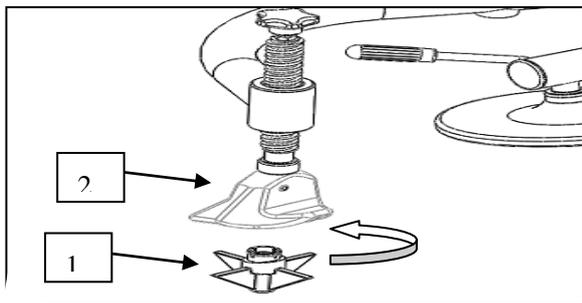


FIG 34

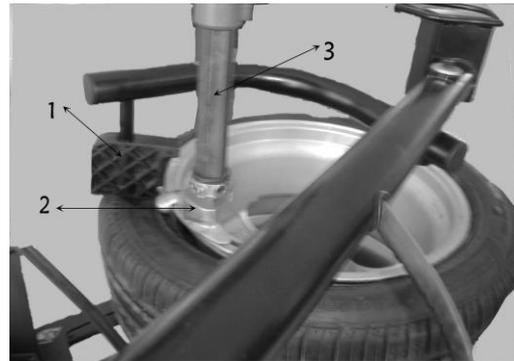


FIG 40

6.2.3 Use the press (FIG 40-1) to press down the tire section by section rim detached from the mouth and use the brush to spread the lubricant on edge of the lip. Position the demount tool (FIG 40-2) in the demount position. Place the press beside of the demount tool to press down the lip and insert the crowbar below the demount tool in between the rim and lip (FIG 41), Lift up the press and move it to the position opposite to the demount tool and press the lip into the tire detach groove and then rotate the crowbar to lift the lip onto the demount tool (FIG 42). Rotate the turntable to detach the upper lip.

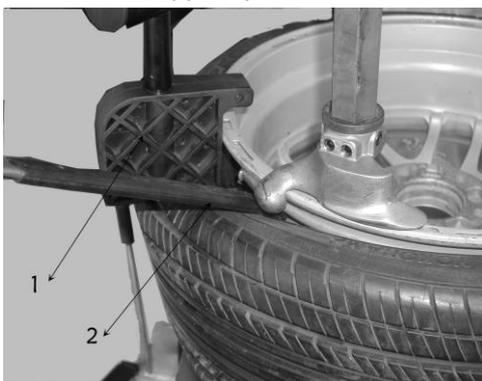


FIG 41



FIG 42

6.2.4 DETACH THE LOWER LIP: Use the disk to lift up the bottom of the tire from the bottom of the mouth (FIG 48) and detach the lower lip (FIG 43) according to the step (4.1.5) .



FIG 43



FIG 44

### 6.2.5 MOUNT TIRE

First, according to the step (4.2.1) ~ (4.2.3) , install the lower lip and use the press to press the lower lip as shown in the FIG 45. Rotate the turntable by about 90°. And then clamp the press in the demount tool (FIG 46) and continually rotate the turntable until the completion of the operation.6.2.5



FIG 45



FIG 46