

## BarbLock® Tabletop Pneumatic Assembly Tool



Declaration of Conformance to the Essential Requirements of Applicable Directive 2006/42/EC

# BarbLock® Tabletop Pneumatic Assembly Tool: Operations Manual

## Table of Contents

<b>Declaration of Conformity</b> .....	3
<b>General Description</b> .....	4
<b>General Safety</b> .....	4
<b>Installing the Jaw sets in your Tabletop PAD</b> .....	5
<b>Instructions for Closing a BarbLock® Retainer</b> .....	6
<b>Maintenance and Adjustments</b> .....	7
<b>Appendix I: Air Schematic</b> .....	8

# BarbLock® Tabletop Pneumatic Assembly Tool: Operations Manual

## 1.0 Declaration of Conformity

### Declaration of Conformity to the Essential Requirements of Applicable Directive 2006/42/EC

We, as an authorized representative of saint-Gobain of Williamsburg Michigan, USA certify and declare that the following BarbLock® Pneumatic Assembly Tool::

**Brandname:** BarbLock®

**Series:** BLT-TB-PAD-TT

**Type:** 1e Top

**Serial No.:** \_\_\_\_\_

Fulfills all relevant provisions and all the Essential Health and Safety Requirements of the European Commission Directive on the Safety of Machinery: Directive 2006/42/EC.

A copy of the Technical File for this product can be made available by contacting:

**Customer Name:** Saint-Gobain Performance Plastics

**Customer Address:** 11590 US 31

**Customer Address:** Williamsburg, MI 49690

This declaration was completed at the Saint-Gobain Facility, 11590 US-31 S. - Williamsburg, Michigan 49690 on July 16, 2012

# BarbLock® Tabletop Pneumatic Assembly Tool: Operations Manual

## 2.0 General Description and Intended Use of the Tool

The BarbLock® Tabletop Pneumatic Assembly Tool is a pneumatic device designed to close assemblies of BarbLock® Ultra-Secure Tubing Retainer sleeves and collets. The stainless steel jaws of the device are designed to capture and contain the pre-locked sleeve and collet assembly and, upon activation of the two hand controls, compress the assembly in to closure. If necessary, the sleeve and collet assembly can be inverted in the jaws to achieve closure. Any other use of this device is forbidden.

## 3.0 General Safety Information

- It is mandatory to read and understand all operating and maintenance instructions before using this equipment
- It is mandatory to read and understand all warning labels before using this equipment
- Do not use this equipment if the warning labels are removed or illegible. Contact Saint-Gobain for replacement warning labels
- Ensure all guards are in place and functional before using this equipment
- Do not operate this equipment when impaired in any way
- Always wear safety glasses with side-shields when using this equipment
- Keep fingers and other appendages away from moving parts at all times
- Be aware of all bystanders when using this equipment
- Never involve another person in the closing process
- Only grasp the equipment by the designated handle. It is mandatory to grasp both handles to close or open the guard
- Do not exceed an air supply pressure of 100 PSI (5.5 BAR)
- Do not disable or remove any safety devices. They are there for your protection
- Damage may result if the sleeve and collet of the BarbLock® assembly are not compatible
- Do not attempt repairs to this equipment. BarbLock® Tools are guaranteed against material defects for one year
- In the event of an emergency or malfunction, disconnect the air supply with the guard in the closed position. This should only be performed by personnel trained in this procedure
- Maintenance should never be attempted by personnel that are not certified to repair this equipment

### Take Note of all Pinch Points on the Device

They will be Marked with the Following Label:



**Disclaimer** – Saint-Gobain endorses the proper use of all BarbLock® Tools and products. Improper use of BarbLock® tools products not addressed within the scope of this manual may result in serious injury. Always read, understand, and follow all directions related to the product you are using. Never use tools while impaired.

**Important Note** – The diagrams and pictures in this manual show the Handheld PAD without it guards for the sake of clarity. This tool should never be operated without all guards functional and in place.

## 4.0 Installing the Jaw sets in your Tabletop PAD

Included with your Tabletop are one or more sets of tooling used to close different sizes of BarbLock® Ultra-Secure Tubing Retainers. These tools are machined out of stainless steel, and are held onto the equipment by a 1/4-20 x 3/4 NC stainless steel socket head cap screws. There are two different styles of Jaw sets. Figure shows a typical 360 Jaw used to close AL series retainers. Figure shows a typical standard Jaw set used to close standard, 2-piece retainers.

### 4.1 The steps necessary to install a jaw set in your Handheld PAD are as follows:

1. Confirm that the air supply line is disconnected. If not, disconnect the line.
2. Depress the both sides of the two hand no-tie-down to confirm that there is no excess pressure still in the system.
3. If there is a jaw set already installed, remove it by removing the two Allen Head screws with the Allen wrench included with your tool, and pulling each jaw straight upward.
4. Before installing the new jaw set, confirm that there are two pins on the jaw seat on either side of the bolt hole. These pins aid in holding the jaw set. If they are missing, contact Saint-Gobain.
5. Slide the new jaw set over the dowel pins in the orientation shown in Figure 3. Replace the Allen Screws, taking care not to over tighten them.
6. Reattach the air supply. The tool is now ready to use.

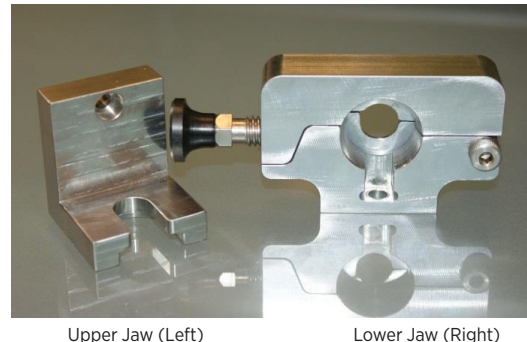


Figure 1: Typical 360 Jaw set for AL Series

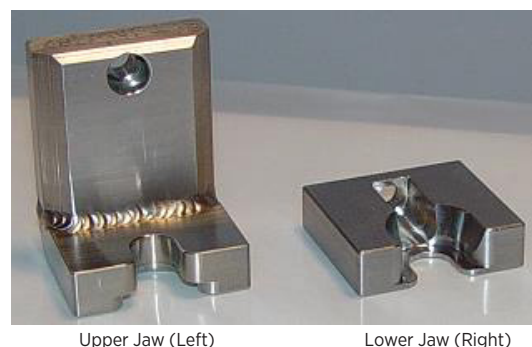
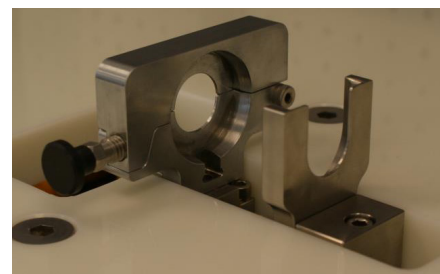
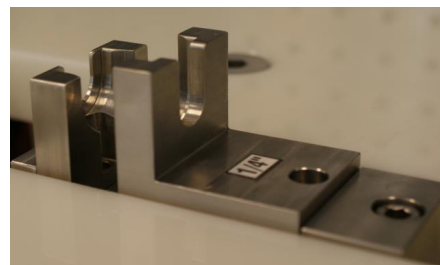


Figure2: Typical Standard Jaw Set for 2 Piece Series



Upper Jaw (Left)



Lower Jaw (Right)

Figure3: Correct JAW Orientation

## 5.0 Instructions for Closing a BarbLock® Retainer

After complying with all the safety regulations, and installing the specific jaw set for your BarbLock® Retainer application, and attaching a source of pressurized air not exceeding 100 PSI, the device can be used to close a BarbLock® Retainer. The procedure to close a BarbLock® Retainer is as follows:

### 5.1 The steps necessary to closing a BarbLock® Retainer:

1. Build an assembly with BarbLock® sleeve, collet, tubing and fitting and place the assembly in the jaws of the device. It is important to note that the proper installation process is required for the machinery to work properly. Figure 5 shows the proper assembly procedure. First, there must be a small gap between the tube stops and tubing. The BarbLock® can then be installed with approximately a 0.1" gap between the edge of the fitting and the edge of the BarbLock® retainer. Proper assembly will ensure that the fitting is secured properly in the JAWs (Figure 4).
2. Ensure the tubing and retainer lie flat in the JAWs of the device.
3. Close the 360 JAW around the assembly and ensure that the locking mechanism has been engaged if you are closing an AL series BarbLock®.
4. Figure 5 and Figure 6 show proper orientation of BarbLock for closure.
5. Depress both buttons on the two hand no-tie-down simultaneously, and hold until closure is complete.
6. Release the two hand no-tie-down, and remove your closed tubing, fitting and BarbLock® assembly.
7. If an emergency stop is required, simply release the two hand controls.

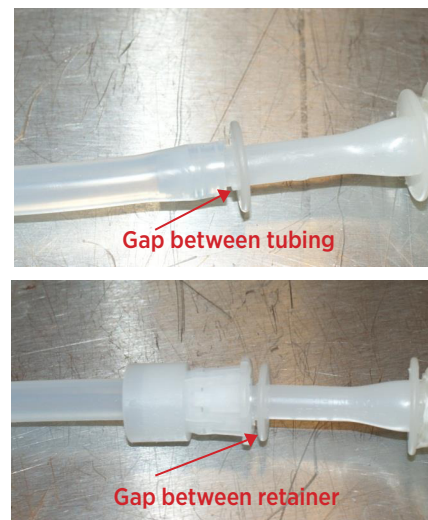


Figure 4: Proper Fitting Assembly

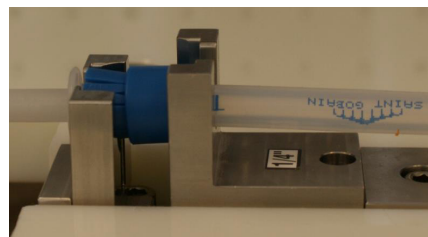


Figure 5: 2 Piece BarbLock® Orientation

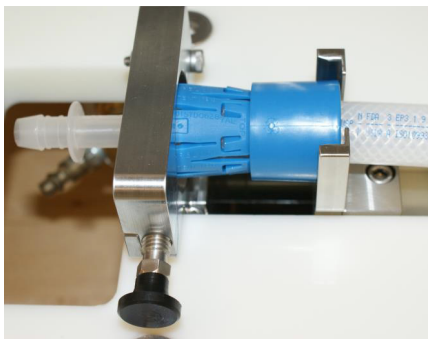
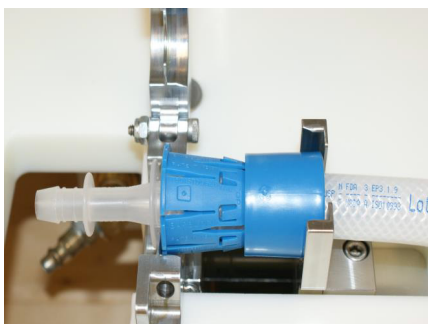


Figure 6: AL Series BarbLock Orientation



## 6.0 Maintenance and Adjustments

Proper maintenance of your Tabletop will lead to a long service life. The following rules are to ensure the longevity of your product:

- Never exceed a supply pressure of 100 PSI (5.5 BAR)
- Make sure clean, dry air is supplied to the PAD
- A moisture trap is recommended in your air system
- NEVER oil the air cylinder. It is designed to be maintenance free

### Adjusting the Pressure

Adjusting the pressure at which your device closes is critical for safe operation. To do so the device is equipped with an inline pressure regulator. A minimum of 40 PSI (2.75 BAR) is necessary to operate this device. Remember to always use the minimum pressure needed to close your BarbLock® Retainer. NEVER exceed 100 psi. Damage will result. The pressure can be adjusted by pulling out the pressure knob (Figure 7) to unlock, and can be adjusted it by turning the knob. If you wish to increase pressure, turn the knob to the right. If you wish to decrease pressure, turn the knob to the left.

*NEVER exceed 100 psi.*

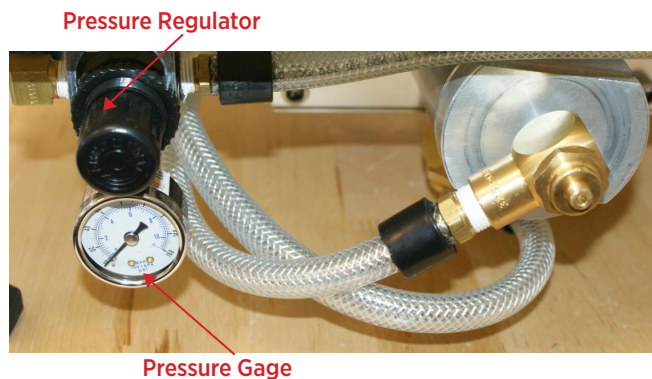
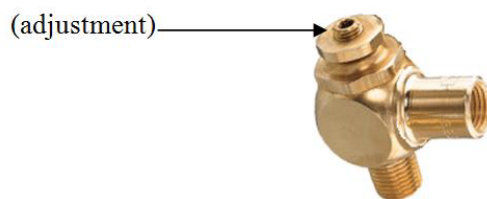


Figure 7: Pressure Adjustment

### Adjusting the Closing Speed of the Jaws

Adjusting the speed at which this device opens and closes is critical to safe operation. To do so, the device is equipped with flow controls at the inlets of the three (3) air cylinders. This device was set at the factory; however, should the need arise, the procedure for adjusting is as follows:

- Disconnect air supply. Depress one green controller button to be sure the air is disconnected
- Loosen the locking nut
- Insert a 1/8 inch Allen wrench (not included)
- Turn wrench clockwise to reduce speed, and counterclockwise to increase speed



This device was set at the factory.

## 7.0 Appendix I: Air Schematic

