



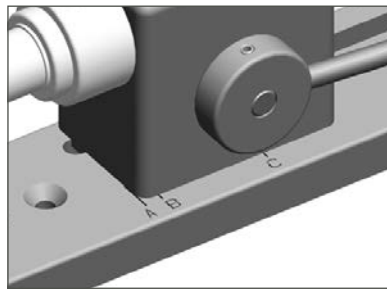
**PRIMELOCK® FITTING
BENCH TOP INSERTION TOOL**

*Insert installation instructions
for 1/4," 3/8," 1/2," 3/4," 1" sizes*

INSTRUCTIONS FOR

PrimeLock® Fitting

1. Verify the tool is properly set up. Lift the black knob and move to position "A". Release the knob.

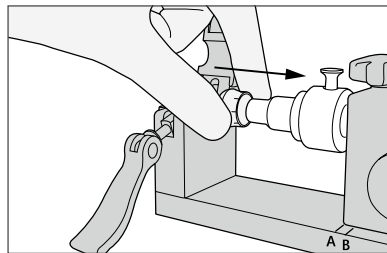


- A. The nut resides on the outside of the clamp
- B. The nut resides between the clamp and the mandrel
- C. Minimum tube unions used to install insert in second side

2. Verify the correct size mandrel and clamp inserts are installed for the desired tube size. Refer to the table on page 4.

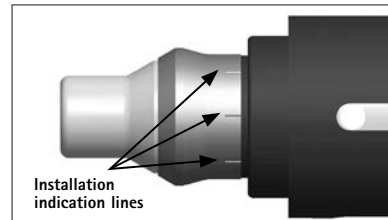
Note: The mandrel is removed by pulling the retaining pin and sliding it off the tool. Clamp inserts are removed by pulling them out of the clamp assembly.

3. Slide the insert onto the mandrel as shown.

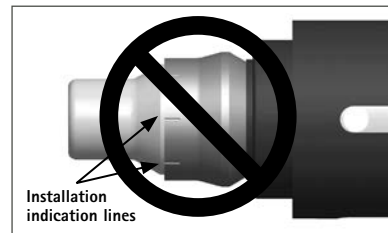


4. Verify the insert has been properly placed onto the mandrel. The installation indication lines on the insert are closest to the shoulder of the mandrel.

For 1/4" insert installation, the insert does not have installation indications lines and can be installed in either direction.

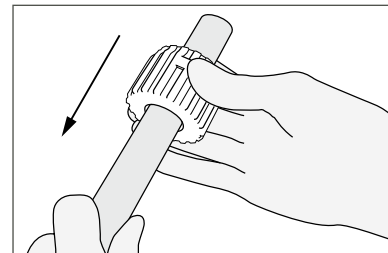


Correct installation of insert

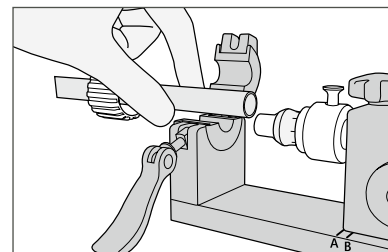


Incorrect installation of insert

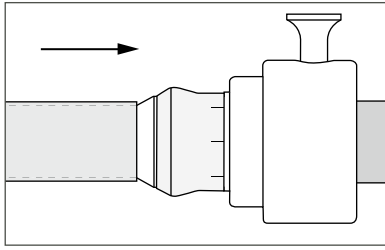
5. Insert the cut end of the tubing through the PrimeLock nut.



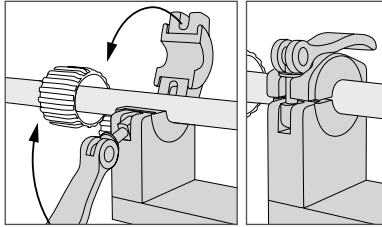
6. Insert the tubing assembly into the clamp.



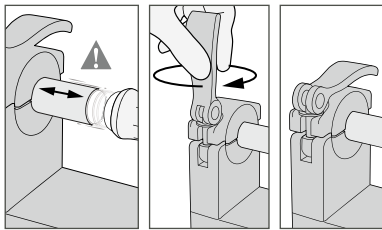
7. Slide the tube onto the mandrel until it stops.



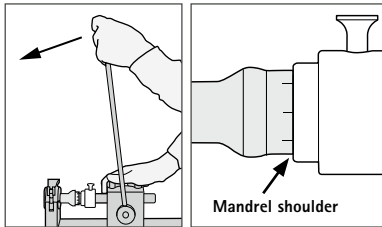
8. Clamp the tube in place.



9. If the tubing is not held firmly, readjust the clamping mechanisms to increase the tube clamping force.



10. Rotate the handle, driving the insert into the tube until the tube contacts the mandrel shoulder.



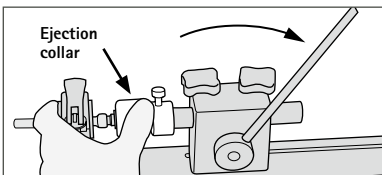
11. For 3/8" to 1" sizes, retract the handle when the insert is installed into the tube. Unclamp the tube.

1/4" INSTALLATION ONLY:

⚠ CAUTION: Failure to follow 1/4" insert instructions may result in the insert remaining on the mandrel after installation.

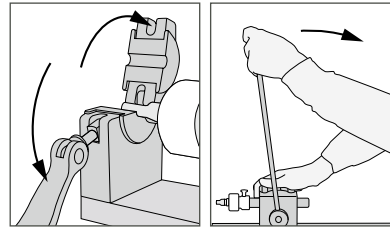
12. For 1/4" insert installation, there are two methods to properly eject the mandrel from the tube assembly. See steps 12a or 12b and 12c.

12a. Hold the ejection collar as you retract the handle until the mandrel is free from the tube assembly.

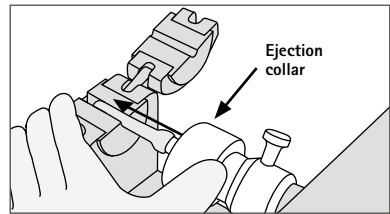


OR

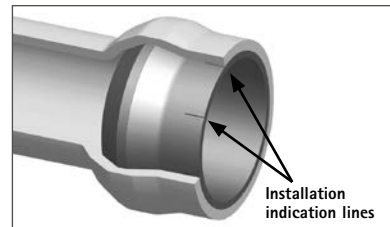
12b. Unclamp the tube, then retract the handle.



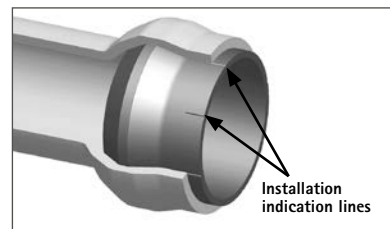
12c. Push the ejection collar forward until the tube assembly is ejected from the mandrel.



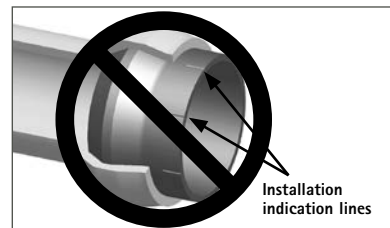
13. Verify the insert has been properly installed into the end of the tube. The insert has molded indication lines for gauging proper installation in the tube. For correct installation, the tubing will cover all or at least a portion of the indication lines. The insert does not need to be pushed fully into the tube.



Correct installation of insert

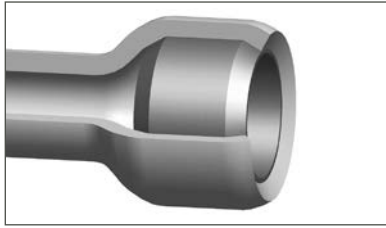


Correct installation of insert

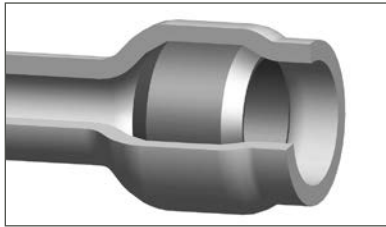


Incorrect installation of insert

For 1/4" insert installation, the insert must be pressed entirely into the tube, at a minimum flush with the end of the tube or until the tube contacts the mandrel shoulder.



Correct installation of insert

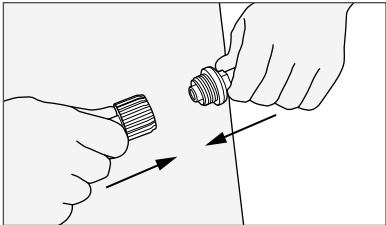


Correct installation of insert

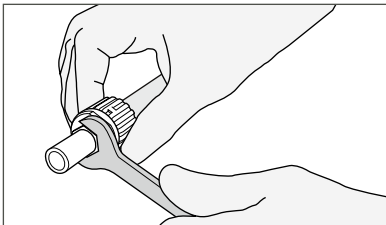


Incorrect installation of insert

14. Slide the tubing assembly onto the fitting.

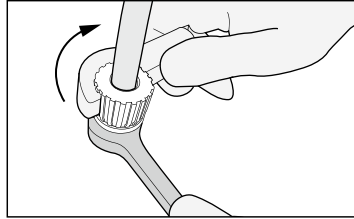


15. Start by hand-tightening the nut.

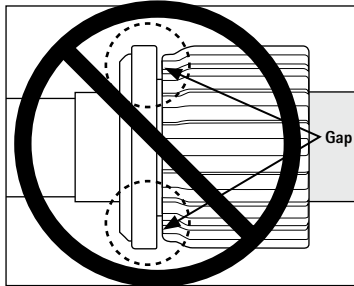


16. Place the PrimeLock wrench over the ribs of the fitting nut and rotate clockwise. Tighten the nut until the connection verification ring creates an audible click or the leading edge of the nut travels under the connection verification ring.

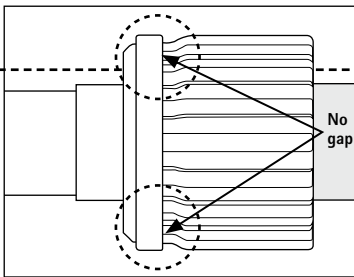
Note: Do not overtighten to the point where the nut bottoms out on the fitting body.



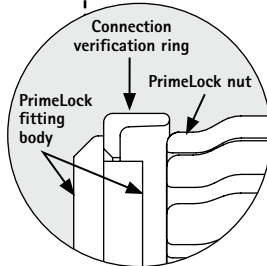
17. If there is excessive background noise, the connection can be verified by looking at the position of the connection verification ring relative to the nut.



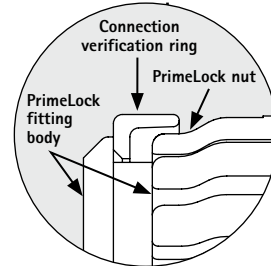
Incorrect tightening of the fitting – additional tightening required



Correct tightening of the fitting



Initial tightening of the fitting – nut travels underneath connection verification ring



Maximum tightening limit – nut bottoms out on the fitting body

CAUTION: Do not retighten the fitting while the fitting assembly is above 30°C (86°F) or in a pressurized condition.

When reassembling the fitting, tighten the nut beyond the initial tightening position.

PRIMELOCK INSERT INSTALLATION TOOLS

Part Number	Description	Tubing Size
PBNCH-TOOL	Bench top tool	1/4"– 1"
PMND-4	Mandrel	1/4"
PMND-6	Mandrel	3/8"
PMND-8	Mandrel	1/2"
PMND-12	Mandrel	3/4"
PMND-16	Mandrel	1"
PMND-KIT	Mandrel – set*	1/4"– 1"
PMND-6-B	Mandrel – directional sleeve**	3/8"
PMND-8-B	Mandrel – directional sleeve**	1/2"
PMND-12-B	Mandrel – directional sleeve**	3/4"
PMND-16-B	Mandrel – directional sleeve**	1"
PMND-KIT-B	Mandrel – directional sleeve** – set*	3/8"– 1"
PMTMND-4	Minimum tube union mandrel	1/4"
PMTMND-6	Minimum tube union mandrel	3/8"
PMTMND-8	Minimum tube union mandrel	1/2"
PMTMND-12	Minimum tube union mandrel	3/4"
PMTMND-16	Minimum tube union mandrel	1"
PMTMND-KIT	Minimum tube union mandrel set*	1/4"– 1"

* Kit does not include 1/4" size, part number sold separately.

** Prevents backwards installation of insert.

*** Eliminates clamp marks on tubing.

Part Number	Description	Tubing Size
PCLMP-4	Clamp insert	1/4"
PCLMP-6	Clamp insert	3/8"
PCLMP-8	Clamp insert	1/2"
PCLMP-12	Clamp insert	3/4"
PCLMP-16	Clamp insert	1"
PCLMP-KIT	Clamp insert – set*	1/4"– 1"
PCLMP-4-R	Clamp insert – EPDM-lined***	1/4"
PCLMP-6-R	Clamp insert – EPDM-lined***	3/8"
PCLMP-8-R	Clamp insert – EPDM-lined***	1/2"
PCLMP-12-R	Clamp insert – EPDM-lined***	3/4"
PCLMP-16-R	Clamp insert – EPDM-lined***	1"
PCLMP-R-KIT	Clamp insert – EPDM-lined*** – set*	1/4"– 1"
PWR-4	Wrench	1/4"
PWR-6	Wrench	3/8"
PWR-8	Wrench	1/2"
PWR-12	Wrench	3/4"
PWR-16	Wrench	1"
PWR-KIT	Wrench – set	1/4"– 1"

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