



F-1960 Cold Expansion Installation Guide



Installation Guide:

F-1960 Cold Expansion Fittings for CB Supplies



Read this Manual BEFORE using this equipment.
Failure to read and follow and use information can results in serious personal injury, property damage, or damage to the equipment.
Keep this Manual for future reference.

Installation Guidelines:

1. Cut tubing using a tubing cutter designed for use with PEX / PE-RT tubing, the tubing should be cut perpendicular to the length of the tubing



Figure 1



Don't use a hack saw, pocket knife, copper tubing cutter, and hatchet or razor knife



Figure 2

2. Slide the expansion ring over the tubing, expansion rings have built in stops, the tubing should be below the edge of the ring by 1/6 of an inch.



Don't push the ring past the end of the tubing

3. Insert the expander head into the tubing
4. Follow the recommended expansion guide for the number of expansion required to make connection



Figure 3



Don't over expand the tubing and ring
Don't make connections in temperatures below 5F (15C)
Don't hold the last expansion

Installation Guidelines:

5. Continue the expansion process until the tubing and ring are flush with expander head shoulder.
6. Remove expander head from tubing and push tubing onto fitting and make sure the fittings bottoms out.
 - a. If the fitting does not insert easily, remove the fitting and make one more expansion
 - b. Do not hold last expansion



Figure 4

7. The successful connection should have the ring and tubing hard up against the shoulder of the fitting, if the ring is more than 1/8" away from the shoulder, the fitting needs to be cut out and replace.



Figure 5

- a. Cut 2" behind the fitting, slide a now expanded ring on the tubing and follow installation guide

Servicing the expansion tool:

- Do follow the manufacturer's suggestions for lubrication of expander cone
- Do keep your expander heads in their designed holders
- Don't use a damaged expander head
- Don't use the expander tool for any other purpose (it's not a hammer)



Troubleshooting F-1960 Connections:

If the connections are not sealing, check the following:

1. Make sure the expander head is screwed on tightly to expander tool head.
2. Check the expander head to see if the segments are bent, if bent replace head.
3. If the segments remain open, check to make sure segments are clean.
4. Is the cone of the expander head bent? If so, the tool needs to be serviced. DO NOT USE
5. Is the fitting sealing barbs damaged? If so, replace fitting
6. Is there too much grease on the expander cone?
 - A-Use a clean cloth to clean expander cone, reapply light coating of grease to lubricate cone.