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*"World Class Quality"*

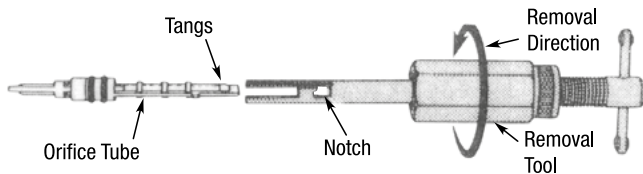
**92311**  
**DELUXE ORIFICE**  
**TUBE SERVICE KIT**

[www.mastercool.com](http://www.mastercool.com)

# ORIFICE TUBE REMOVER / INSTALLER SET

## ORIFICE TUBE REMOVAL

1. Recover any refrigerant from system.
2. Disconnect refrigerant line at the evaporator inlet and pour a small amount of refrigeration oil into the inlet for lubrication.
3. Screw the brass extension onto the arbor.
4. Screw the correct end (GM / Ford) onto the extension.
5. Back off the outer nut portion of the orifice tube remover / installer to the handle and insert the tip of the tool into the evaporator inlet.
6. While exerting a slight downward pressure on the tool, rotate its handle until the tool drops down and locks onto the tangs on the orifice tube (see sketch below).
7. Tighten the outer nut portion of the tool against the end of the evaporator inlet to remove the orifice tube.



## **ORIFICE TUBE INSTALLATION**

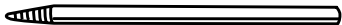
1. Pour a small amount of refrigerant oil into the evaporator inlet.
2. Lubricate the o-rings on the new orifice tube.
3. Attach the new orifice tube to the orifice tube remover / installer, insert the assembly into the evaporator inlet, and push downward until the orifice tube is stopped by the dimples in the evaporator inlet line.
4. Turn the tool handle 1/8 turn to release it, withdraw it from the inlet and reinstall the refrigerant line.

## **BROKEN ORIFICE TUBE REMOVAL**

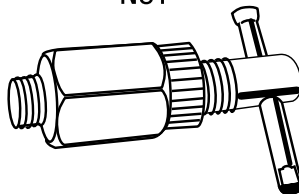
1. If a portion of the orifice tube has broken off, use the auger point shaft to remove the assembly that remains in the evaporator inlet.
2. Thread the screw tip portion of the tool into the metal tube in the center of the assembly and pull outward with a clockwise twisting motion.
3. If this fails, a special repair kit is available for some systems.

 **WARNING:** Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**1310-002**  
AUGER POINT SHAFT



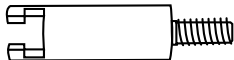
**1002-002**  
NUT



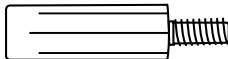
**1310-001**  
ARBOR



**1310-005**  
GM PULLER



**1310-004**  
EXTENSION



**1310-003**  
PULLER

