

# Red Head Brass, LLC

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## REMOVING COPPER EXPANSION RINGS FROM HOSE COUPLINGS

**NOTE: WHEN PERFORMING THESE OPERATIONS, IT IS IMPERATIVE THAT SAFETY GLASSES OR SAFETY MASK BE WORN.**

### Tools Required

- Style 109 Ring Removal Tool
- Hammer
- Center Punch (Optional)



### Ring Removal

1. Cut the hose coupling off of the hose flush with the end of the coupling.
2. Secure the coupling half in a vise with the hose end of the coupling facing up.
3. Place one of the points of the 109 Tool on the end of the hose so that the point is between the inner wall of the coupling bowl and the outer wall of the expanded copper ring. Using a hammer, drive the point down between the ring and the coupling.



If the hose has a thin wall, the points on the 109 Tool may be too big to get started between the coupling and the ring. In that case, drive the point of a center punch in first to provide a large enough gap for the 109's point.



## **REMOVING COPPER EXPANSION RINGS FROM HOSE COUPLINGS (cont'd)**

4. Raise the tools handle up to pull the soft copper ring away from the coupling. It may be necessary to do this in progressive steps of driving the point in deeper and rocking the tool back until the ring can be removed. An alternate method is to drive the point in and rotate the tool to wrap the ring around the points. The idea is to collapse the wall of the expanded ring so that it can be removed. Drive the tool in only as deep as is necessary to remove the ring. Overdriving the point into a small diameter coupling may drive it in too deep and puncture the bottom of the coupling bowl.

