

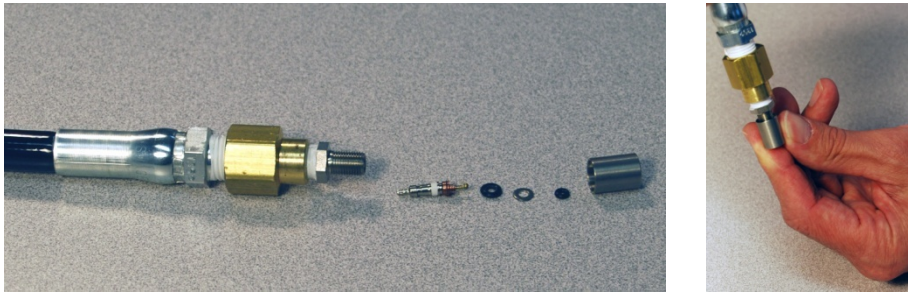
## **Maintenance -- CO<sup>2</sup> Charge Hose**

The charge hose that is used to charge the CO<sup>2</sup> bottle may need a replacement internal valve core, if the hose leaks air during a charge.

To determine if there is a leak in the charge hose, first, make sure the hose contains a Teflon washer in the large end connector, and that the large end connector is tightened securely to the CO<sup>2</sup> bottle with an adjustable wrench.

Next, insert the charge hose in the gun. When the charge hose stabs into the fill valve, some gas will blow back from the insertion point. This is normal and helps keep the charge area free of debris. However, if after removing the charge hose from the gun, gas continues to exit from the charge hose tip, the valve core needs to be changed. Use one of the valve cores in the gun repair O-ring kit supplied at the time of purchase, or call Sage Technologies to order a Charge Hose Tip Kit.

Carefully remove the charge hose tip from the charge hose, with the tip pointing downward, as shown below. Inside the tip, there will be a large o-ring, a flat washer, and a small o-ring. Save these to be re-installed later. (If they are missing or damaged, you will need to order a Charge Hose Tip Kit.)



With the gun maintenance tool, unscrew the internal valve core from the end of the charge hose, and replace it with a new valve core. Hand tighten securely. Then, rebuild the charge hose tip, as shown above, first placing the small o-ring in the bottom of the tip, followed by the flatwasher and then the larger o-ring. Insert the end of the charge hose into the tip and hand tighten securely.

## **CO<sup>2</sup> Bottle Set-up**

Many operators fit the compressed gas bottle with the charge hose in the shop, and transport it to the field with the hose attached. For set up, first make sure the bottle contains CO<sup>2</sup>. A simple rule of thumb when filling the 2.5 pound bottle supplied with the Acoustic Fluid Logger IV is to weigh the empty bottle, then fill it with compressed CO<sup>2</sup> gas until it weighs 2.5 pounds more than the original weight.

When attaching the charge hose, first place the Teflon O-ring (attached to the charge hose at time of sale) inside the charge hose connection on the large end of the black fill hose. Then, tighten the hose connection onto CO<sup>2</sup> bottle with an adjustable wrench.

