

# Winter Instruments 101

Let me begin by saying that instrument repairs are only allowed by “certified repair shops” that have “approvals” for each and every instrument type they repair... That being said, should you decide to do this work yourself you know of course the instrument has not been recalibrated and does not have the proper legal documentation.....nuff said!

## Bezel for McCready Speed Rings

Many older Winter Variometers do not have the proper bezel for mounting McCready rings. The bezel is easily changed and can be supplied with new McCready rings.

### Removing to old (smooth) bezel



The bezel on Winter variometers and also on Winter airspeed indicators is



screwed on and has 2 small slots on the perimeter.

If you don't have the Winter tool for the bezel you can easily make one by cutting an old hacksaw blade with tin snips to the exact size of the bezel.

Old hacksaw blades work well for this since they are hardened steel and won't



easily bend and slip off damaging the instrument, but also they are easily cut to the right length with standard tin snips, and of course they are cheap!



So as to not have these bend and slip when removing or replacing the bezel, mount the hacksaw blade, teeth down away from the instrument in a vice..



doing it this way you can easily turn the instrument and not the tool and not have it slip and damage the instrument. Simply turn counter clockwise until it's loose and then remove the bezel by hand.



If you need to remove the glass face just use a thin metal blade like an Exacto knife or razor blade and apply “light” pressure to the glass along the edge



..... be careful not to chip the glass with too much pressure. There is an “O” ring below the glass to seal the instrument and these can be a little sticky so light pressure until it is free is necessary, once loose the glass will fall away.

Simply reverse these procedures for re-installing the new bezel, tighten the new



bezel but don't over-tighten .....snug is good enough. The McCready ring has small ball bearings the snap into the new bezel and allow it to easily turn.