

AC1 OPERATOR MANUAL

*****TURN OFF AIRCRAFT TRANSPONDER BEFORE CONNECTING AC1*****

1. Turn AC1 over to view inside. There are 2 plastic clamp plates inside. The thicker one is fixed. Turn the two thumb screws so that the thinner plastic plate is wide open. Note that if one thumb screw is turned much more than the other, it will bind. Turn left and right thumb screws as equally as reasonable.
2. Place AC1 over the aircraft antenna. If an open $\frac{1}{4}$ wave type then, holding from thumb screw side, gently push and slide the AC1 left and right to find the center indent. Turn left and right thumb screws evenly to hold AC1 to the aircraft antenna.
3. If not already connected, install SMA-BNC coax cable with its 20db attenuator between AC1 output and ramp tester BNC input. The signal to the ramp tester will be about 54 db attenuated from aircraft or 0dbm. 30db from AC1, 20db due to attenuator and around 4db due to coax.

*****MAY NOW TURN ON AIRCRAFT TRANSPONDER*****

4. Now with transponder running, perform required tests. When doing MTL-POWER testing, the path loss setting will be around 54db. See on sunavionics web site, under support tab, AV15/17 commands used for FAR xponder tests for general testing information.

*****TURN OFF AIRCRAFT TRANSPONDER BEFORE REMOVING AC1 COUPLER*****

