

Intercom Adjustments for Mountain Flyers Airplanes

For Garmin GMA 340, PS Engineering PS1000II and HyperVox intercoms.doc jpa 2/11/2012

Some of our pilots are having trouble with the HyperVox intercoms for N7103G and N759GF; PS Engineering 1000II in N58807; and the Garmin GMA 340 audio panel in N1644E. Full operating instructions for the intercoms are on our web page www.mtnflyers.com under "Aircraft Info". The following highlights the setups that allow communication between the pilots and passengers.

Setting up the GMA 340 audio panel for squelch and audio volume in N1644E.

1. Push in the volume control knob on **both the com and nav radios** so the **individual radio suppresses (squelch) static noise**. The Nav 1 and NAV 2 buttons must not be lit on the GMA 340 audio panel. Press the "Crew" button so it is lit. This allows communication between pilot and copilot. When neither "crew", nor "Pilot" are lit, the pilot, copilot, and rear seat passengers can hear all conversations. Start a normal conversation between pilot and copilot and adjust volume level to a comfortable level. The pilot uses the small left knob and the copilot adjusts his volume with the small right knob on the GMA 340. Tune in ATIS on both radios. Select COM1 and set the volume control on the radio to a comfortable level; do the same for the COM2 radio. To adjust passenger volume, the copilot must "pull out" the small knob on the copilot side and turn the knob clockwise to increase volume level.
2. The pilot and copilot have their own noise suppression (squelch) controls for the intercom only...turn the outer ring on the volume control knob clockwise until there is no noise or buzzing from the running engine, alternator etc. The copilot does the same.
3. Avoid using the split Com1/2 unless you want to talk on one frequency and the copilot on another at the same time. Example: You want to talk to Atlanta Center on 132.625 and the copilot wants to talk to AVL approach control on 124.65. One cannot hear the other.

Both N71 03G and N759GF have the Troll Avionics HyperVox HV-1 intercom system which has only one volume and squelch control knob; N58807 has the PS Engineering PS1000II with one squelch and volume control knob for each pilot.

1. For each individual radio "push in" the volume control knob for the COM and NAV so noise suppression (squelch) is active.
2. On the HyperVox intercom there is one volume knob and another separate squelch knob. The PS1000II has combined volume and squelch on one knob (like the GMA 340) for the pilot and one for the copilot. The inner knob adjusts volume and its out ring adjusts squelch. Turn the volume knob up or down to hear each other comfortably. Turn the squelch clockwise until it stops static noise. After engine start, or in flight, another squelch adjustment may be needed caused by background noise from plugs, alternator, etc.
3. If you need to tune in a distant radio station, "pull out" the radios volume adjustment knob (increases reception and static). Afterwards, remember to "push in" the volume control knob to reset noise suppression (squelch).