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## AV-590 COM's Receive Combiner-Transmit Switch

### Note this product must be used in conjunction with an Aircraft Audio Panel

The AV-590 is an electronic switch allowing two COM radios to share the same COM antenna. In receive mode it acts as a signal splitter allowing both COM radios reception across the entire COM band (118-137 MHz). In transmit mode, which ever COM radio (COM 1 or 2) is selected through the audio panel, a control signal is sent to the AV-590, switching the active COM radio to the COM antenna and isolating the remaining COM radio from the COM antenna. Once no longer transmitting the control signal is removed and the AV-590 reverts back to the receive mode as described above.

### Install Instructions

- 1) Locate mounting position behind the panel.
  - 2) Using the mounting template provided, drill (4) mounting holes and mount the AV-590 switch.
  - 3) Connect the WHITE wire from the AV-590 to the audio panel XMT control COM #1. (reference wiring instructions for audio panel also)
  - 4) Connect the GREEN wire from the AV-590 to the audio panel XMT control COM #2. (reference wiring instructions for audio panel also)
  - 5) Connect the RED wire from the AV-590 to the aircrafts 12-15 VDC B+ buss.
- NOTE:** If installing in an aircraft with a 24-28 volt electrical system, place a 5% 2,000 ohm, ¼ watt resistor in series with the B+ RED wire.
- 6) Connect the BLACK wire from the AV-590 to the aircraft airframe ground or ground buss.

