

# RADIO KEYLINE MODIFICATION

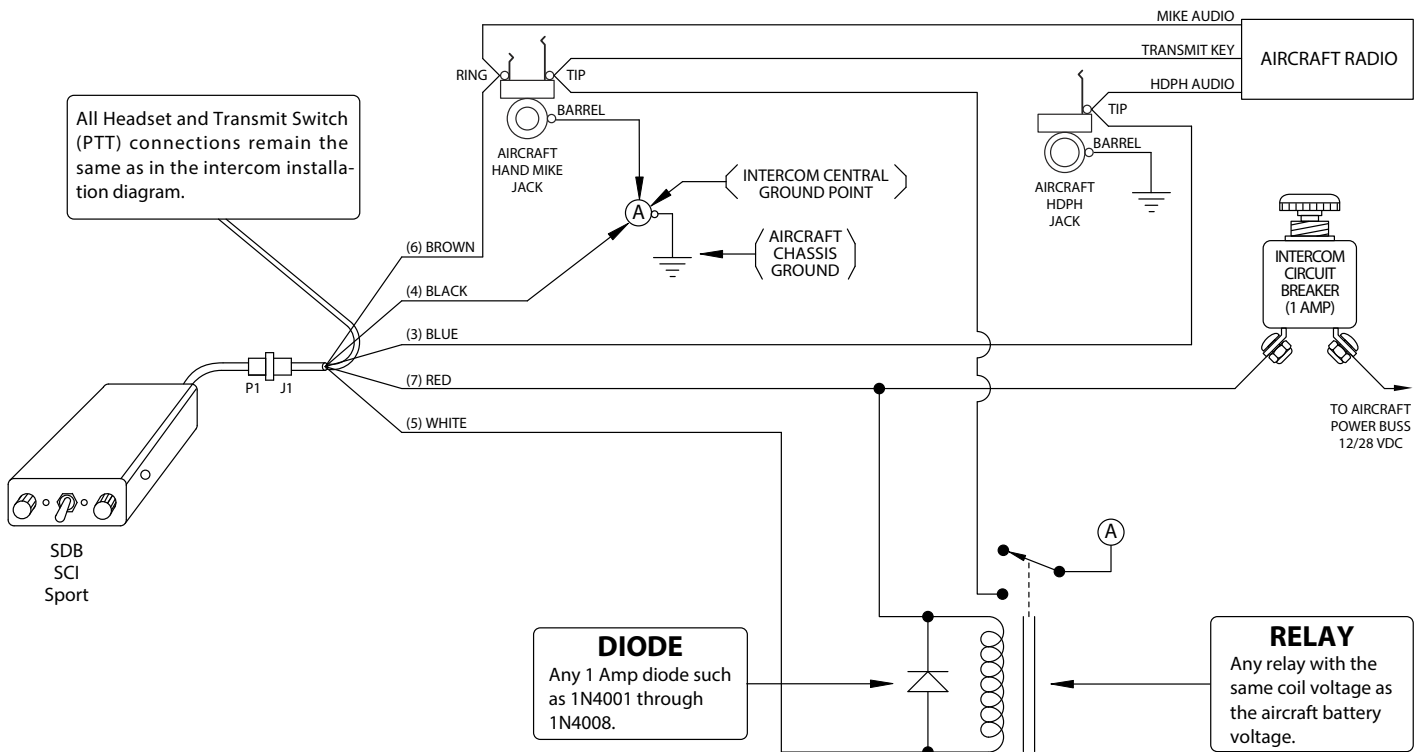
**SCOPE:** This modification applies to all Sigtronics intercom (SPA-, SDB-, SCI-, Sport-) installations that will utilize both pilot and co-pilot transmit positions. See alternate solution if using pilot only transmit position.

**PROBLEM:** The radio will not key up when either pilot or co-pilot PTT is pressed. This is due to the 0.7 volt diode drop within the intercom. Common installations affected usually involve KMA-20 audio panels or ICOM A220 radios.

**VERIFICATION:** Check to make sure all wiring and terminal connections are correct and unbroken. The radio will key up from the aircraft hand mike. Shorting the white wire (pin 5) to ground will key up the aircraft radio. The radio will not key from either PTT position. Shorting the white / red (pin 2) or the white / blue (pin 10) will not key the aircraft radio.

**SOLUTION:** A relay can be added to the installation that will eliminate the 0.7 volt diode drop. Follow the wiring diagram below.

**Alternate Solution:** For pilot only transmit installations. The pilot's PTT switch can be directly tied to the tip terminal of the aircraft hand mike jack. The PTT switch will still be connected to the white / red (pin 2) wire. The white (pin 5) wire will still be connected to the tip terminal of the hand mike jack.



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