

SSA424 Engineering Advisory

There has been incorrect resistor value installed in some SSA424's which affects the "full duplex sense" circuit causing it not to automatically go into the full duplex mode. R184 and R284 were installed at the factory as 100k ohm instead of 1k.

The problem is the unit will not go into full duplex in a timely manner and the unit doesn't work according to the manual. Normally when only dip switch #1 is on, three seconds after someone starts speaking on the four wire, the unit will move into full duplex. If the conversation on the four wire stops for over 30 seconds, the unit will probably stay in full duplex but is allowed to drop into half duplex. This may happen if the SSA feels it needs to readjust itself due to any changes in the system's line characteristic. When after three seconds of conversation on the 4 wire starts up again, the unit will transition once again into full duplex mode.

The "easy" work around is to turn **ON** both dip switches **1** and **4** which locks the SSA into full duplex. There are two known problems with this temporary solution. One is that the circuit may give a short "tweet" when some TW devices are added or subtracted from the intercom line. Second is the SSA is no longer a truly automatic interface.

