

SSQ-2F v3.10 Instruction Manual Addendum

12 April 2010

MARKING ERROR ON THE v3.10 CIRCUIT BOARD

The identification marking of the RF output connections on the bottom (solder side) of the SSQ-2F v3.10 circuit board is reversed. The markings on the top (parts side) of the board are correct.)

The connection labeled RF OUT is the GROUND connection, and the connection labeled GND is the RF OUT connection. Please be aware of this error when connect your coaxial cable to the SSQ-2F v3.10.

POWER SUPPLY CONSIDERATIONS

Two power supplies are required for operating the SSQ-2F.

The logic circuits of the SSQ-2F require a power supply voltage of between +15 and +32 volts DC, at a maximum current of 150 mA. This voltage must be filtered, but it does not need to be regulated. This power supply is connected to the PWR terminal block.

The power supply for the RF amplifier section of the SSQ-2F must be both filtered and regulated. The voltage requirements are between +15 to +80 volts DC, at a maximum current of 1800 mA. This power supply is connected to the PA PWR terminal block.

It is recommended that you connect a 1000 uF electrolytic capacitor directly across the connections of the PA PWR terminal block. This will prevent waveform distortion that is caused by the inductance of the DC power wires between the SSQ-2F RF amplifier and the power supply.

The power output from the RF amplifier is adjusted by changing the DC voltage from the power supply.

It is strongly recommended that you use a current-limited power supply for the RF amplifier section of the SSQ-2F.

The maximum current should be limited to no more than 2 Amperes.

This is to prevent the accidental destruction of the IRF730 MOSFET should there be a problem with your equipment, such as a bad coaxial cable, shorted wires, or severe mistuning of the coupling system.