

Transmitter Pulse Amplitude

At ambient ~~temperut~~temperature, remove the top cover of the unit.

With an ATCRBS Mode A interrogation rate of 500 messages per second, the capacitors C136 and C223 should be adjusted until maximum transmit amplitude is achieved.

Note: It is acceptable to use a different interrogation and a different interrogation rate. Any pulse can be measured for this calibration.

Transmitter Pulse Width

With an ATCRBS interrogation rate of 500 messages per second, the pulse width setting in software should be adjusted to get the pulse width as close as possible to 450ns.

Note: The adjustment is a ~~count~~value with a range ~~from~~of 0-F (hex).

Transmitter PA Bias

With an ATCRBS interrogation rate of 500 messages per second, potentiometer R206 is adjusted manually.

Turn R206 all the way down (counterclockwise) to start,

Slowly adjusted R206 upward (clockwise) until the power supply current into the unit has increased by 3-6mA.

Note: The power supply shall be set to 27.5V during this process.