Cannon 910T transmitter encoder alignment

OK, I figured it out by screwing around and looking at an Ace Silver Seven Tx schematic and alignment procedure. There is a Vr/2 test point on the bottom of the board; it is approximately 1/2 of Vreg which is 5 volts. Here is the procedure I came up with that works, and no neutral shift when reversing the servos:

1. Center the five channel throw pots (50K) Place your voltmeter negative on Vr/2 and then got to each of the channel test points on the bottom of the board and adjust each stick pot for zero volts. On single stick versions for channel 4, rudder, you have to remove the round aluminum cover of the end of the rudder knob to get to the pot adjustment.

2. Near the NE-5044 there are two pots, a 10K (master neutral) and a 50K (frame rate) Adjust the frame rate 50K pot for 22msec. Adjust the Master neutral for 1.5msec on the 1st channel. all the other channels except retracts should be at 1.5 msec. If not, you need to go back and check that they are set to Vr/2 (zero volts).

3. Check for approximately 2 msec total pulse width movement as you move channel one control stick from one extreme to the other. Use each channel's 50K pot to adjust each channel for 2msec of pulse travel. On channel 5 (retracts), use it's throw pot to set the throw for 2 msec.

That is the encoder alignment procedure for Cannons with the NE-5044 encoder and servo reversing switches. My Cannon 910T SS was made in 1987 and is in a white plastic case, it is a super-micro system with the micro servos and postage stamp receiver. It is on 50.800MHz

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April 2020