PRESELECTOR FLYING

Grab your schematic and figure 17 in the factory manual and follow along.

The preselector control tunes the RX RF AMP, the TX mixer plate and the driver grid. Also, there are the band coils. L1 -L5 tune the RX amp V1 grid, L7 – L11 tune the RX amp plate V1 and the driver grid, V16. L37 – L41 tunes the driver plate V16.

First problem, there are an infinite possibility of positions of the preselector and the coils to reach resonance on each band. The factory alignment procedure does not address this characteristic.

Second problem, L7 – L11 tune both the receiver and the transmitter. This one is easy. Tune the transmitter first and then tune the receiver coils L1 – L5. Do not readjust L7 – L11 for the receiver.

Now to first problem. Over time and repeated tune and align operations the peak for the preselector shifts. A common error when aligning is to peak the preselector and then adjust the coils. Over time the peak will drift the preselector off its mechanical design point. This ends up causing the driver/mixer to oscillate.

To correct for this condition, we set the preselector to it intended mechanical position and then adjust the coils. Sometimes the preselector is so far off you have to creep it back. That is, move the preselector a small amount in the direction of its intended position, peak the coils and do it again until you walk the preselector and the coils back to their correct position. The photo below shows the proper position for the pointer for each band center.