Procedure:

1. With AF generator at 1500 cps, increase MIC GAIN to result in 100 ma reading on cathode meter.
2. Readjust Z801 for maximum output meter or cathode current reading.
3. Adjust bottom slug on Z1301 for maximum output, then top slug for maximum output.
4. Adjust MIC GAIN for cathode current of 200 ma and note output meter reading.
5. Reduce AF input to zero and rotate CAR BAL for greatest deflection on meter, then adjust C1402 for meter null, then rotate capacitor to decrease capacity until meter reads 200 ma. Minimum capacity of C1402 is when silver quadrant is opposite the mounting screws.

PA NEUTRALIZATION

Procedure:

Tune transmitter to maximum output on any band, then remove all loading. Insert carrier to approximately 200 ma and peak PA GRID for maximum cathode current. Rotate PA TUNE control through range. Proper neutralization is indicated by a smooth, single dip in cathode current, with no erratic or excessive high current indication. The adjustment of neutralizing capacitors C315 and C413 must be accomplished in small increments on an adjust and try basis. C315 must be adjusted on 10 meters.

ADJUSTMENT OF L601

With transceiver tuned to 28.8 mc, and RF and AF gain at maximum, adjust L601 for maximum background noise.

S-METER ADJUSTMENT

With antenna disconnected and with RF gain fully clockwise, set R605, located on rear panel to read zero. Make sure no local signals are being received. Set RF GAIN fully CCW, meter should read 70 db over S9.

VFO ALIGNMENT

Alignment of the Model 350 VFO requires only the use of a general coverage receiver tuning the frequency ranges between 8 mc and 24 mc. Calibration of the receiver is not critical if the optional crystal calibrator in the transceiver is used for final adjustment, but the receiver must be accurate within 50 kc to permit selection of the proper 100 kc harmonic. Vernier dial set alignment may be made with the dial set knob provided with the calibrator kit. FOR MINOR FREQUENCY ADJUSTMENTS, which may be required after the initial aging period, simply turn the cabinet over and very carefully adjust the coil slug marked for the specific range.

FOR MAJOR FREQUENCY ADJUSTMENTS

Tune VFO to low end of frequency range, and locate heterodyne with general coverage receiver at frequency indicated in following table, adjust coil slug for zero beat with calibrator. Move tuning to high end of tuning range and adjust top slug for zero beat. Repeat high and low end adjustments until calibration is correct at both ends. Coil and capacitor locations are marked in the unit. On 80 meters, if calibration is exact at 3.8 and 4.0 mc, the dial will be a few kc off at 3.5 mc. If calibration is exact at 3.5 and 4.0 kc, tracking through the range will be slightly inaccurate.

Dial Frequency	Oscillator Frequency	Adjust Coil
3.5 mc	8673 kc	L1701
3.8 mc	8973 kc	L1701
4.0 mc	9173 kc	L1701
7.0 mc	12,173 kc	L1702
7.2 mc	12,373 kc	L1702
7.3 mc	12,473 kc	L1702
21.0 mc	15,827 kc	L1703
21.25 mc	16,077 kc	L1703
21.45 mc	16,277 kc	L1703
28.5 mc	23,327 kc	L1704
29.0 mc	23,827 kc	L1704