

MODELS 617, 617-B, 627,
627-B, 927, 1127

Alignment

NOBLITT SPARKS INDUSTRIES

MODELS 617, 617B, 627, 627B, and 927.

BALANCING INSTRUCTIONS

1. Connect the balancing oscillator (456 K. C.) to grid cap of the 1st Det. Connect an output meter or cathode ray oscillograph to speaker output transformer or across speaker voice coil.
2. Adjust padder condensers 1, 2, 3, 4, 5 and 6 for maximum output in the order designated by their numbering.
3. Recheck the adjustment of each padder beginning with number 1 to prevent interlocking of circuits.
4. Disconnect oscillator from Det. grid cap and replace grid clip.
5. Connect oscillator to terminal on rear of set marked "A." Ground oscillator cable shield to terminals marked "D" and "G."
6. Set the wave band switch to broadcast position. Rotate the condenser fully out of mesh and adjust padder number 7 for resonance at 1650 K. C.
7. Rotate the dial pointer until it is opposite 140 on the broadcast band and adjust padders 8 and 9 for maximum output.
8. Reset the balancing oscillator to 600 K. C. and rotate the tuning condenser until this signal is received. Adjust padder number 10 for maximum output while rotating the tuning condenser slightly to follow the drift in frequency caused by the change in padder adjustment.
9. Reset the wave switch to the mid band position (5500-1750 K. C. range). Readjust the balancing oscillator to 4800 K. C. and set the dial pointer to 4.8 on the center dial calibration.
10. Adjust padder number 11 for resonance.
11. Adjust padders 12 and 13 for maximum output.
12. Reset balancing oscillator to 1800 K. C. Set the dial point to 1.8 on the center dial calibration.
13. Adjust padder number 14 for maximum output while rotating tuning condenser slightly to follow drift in frequency caused by the change in padder adjustment.
14. Reset the band switch to the short wave position (5.5-18.5 megacycles). Readjust the balancing oscillator to 16 megacycles and set the dial pointer opposite 16 on the short wave band.
15. Unscrew screw in padder number 15 until padder condenser plates are wide open. Then tighten selecting the first resonance point reached. (The short wave band will not function unless this precaution is taken.)
16. Adjust padders 16 and 17 until maximum output is obtained.

MODEL 1127

BALANCING INSTRUCTIONS

1. Connect the balancing oscillator (456 K. C.) to grid cap of the 6A8C tube. Connect an output meter or cathode ray oscillograph to speaker output transformer or plate of 6N6G tube.
2. Adjust padder condensers 1, 2, 3, 4, 5, 6, 7, 8, and 9 for maximum output in the order designated by their numbering until oscillograph trace shown in Fig. A is obtained.
3. Recheck the adjustment of each padder beginning with number 1 to prevent interlocking of circuits.
4. Disconnect oscillator from 6A8C grid cap and replace grid clip.
5. Connect oscillator to terminal on rear of set marked "A." Ground oscillator cable shield to terminals marked "D" and "G."
6. Set the wave band switch to broadcast position. Rotate the condenser fully out of mesh and adjust padder number 10 for resonance at 1650 K. C.
7. Rotate the dial pointer until it is opposite 140 on the broadcast band and adjust padders 11 and 12 for maximum output.
8. Reset the balancing oscillator to 600 K. C. and rotate the tuning condenser until this signal is received. Adjust padder number 13 for maximum output while rotating the tuning condenser slightly to follow the drift in frequency caused by the change in padder adjustment.
9. Reset the wave switch to the mid band position (5500-1750 K. C. range). Readjust the balancing oscillator to 4800 K. C. and set the dial pointer to 4.8 on the center dial calibration.
10. Adjust padder number 14 for resonance.
11. Adjust padders 15 and 16 for maximum output.
12. Reset balancing oscillator to 1800 K. C. Set the dial point to 1.8 on the center dial calibration.
13. Adjust padder number 17 for maximum output while rotating tuning condenser slightly to follow drift in frequency caused by the change in padder adjustment.
14. Reset the band switch to the short wave position (5.5-18.5 megacycles). Readjust the balancing oscillator to 16 megacycles and set the dial pointer opposite 16 on the short wave band.
15. Unscrew screw in padder number 18 until padder condenser plates are wide open. Then tighten selecting the first resonance point reached. (The short wave band will not function unless this precaution is taken).
16. Adjust padders 19 and 20 until maximum output is obtained.

©John F. Rider, Publisher