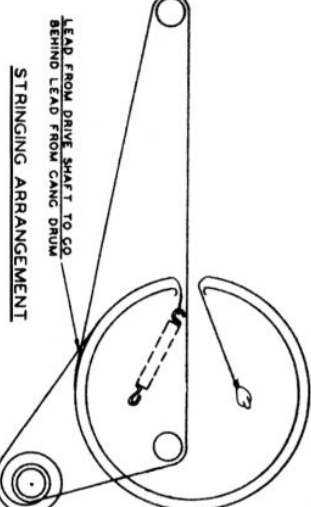
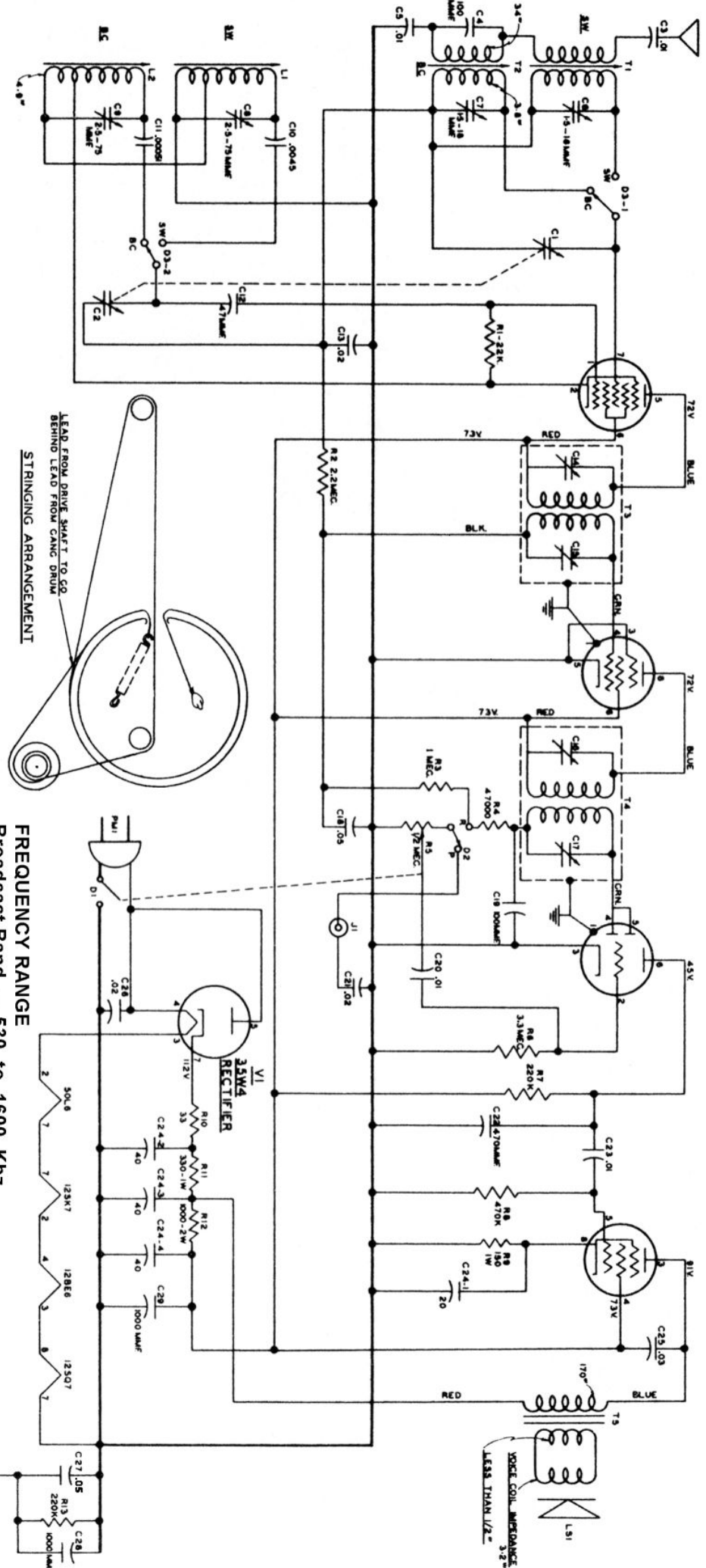


V2 12BE6
CONVERTER

V3 12SK7
IF AMPLIFIER

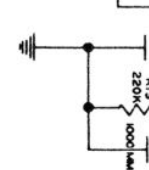
V4 12SQ2
DETECTOR - AVC & 1ST AUDIO AMP

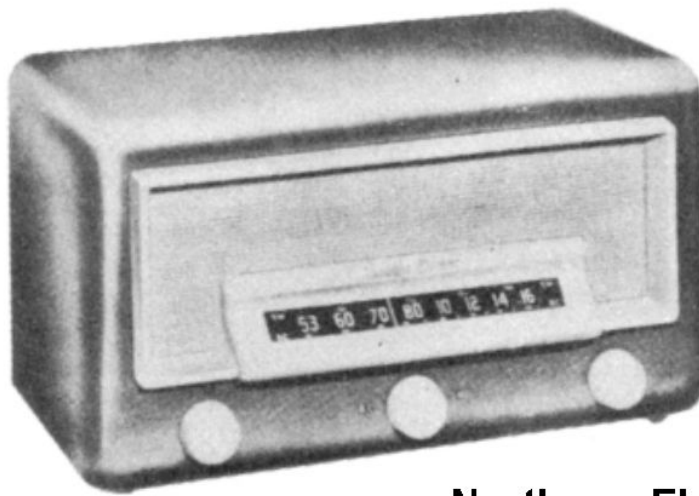
V5 50L6CT
OUTPUT AMPLIFIER



Northern Electric 5412

FREQUENCY RANGE
 Broadcast Band - 530 to 1600 KHz
 Short Wave - 5.3 to 16 Mhz





ALIGNMENT

Northern Electric 5412

Alignment procedure should be carried out according to the following table and in the order shown.

Generator Frequency	Dummy Antenna	Receiver Connection	Control Setting	Item to be adjusted for maximum audio output.
1. 455 Kc	.1 Mfd	Pin No. 7 12BE6	BC-Gang Open	I.F. Trimmers C14, C15, C16, C17
2. 525 Kc	100 Mmf	Antenna	BC-Gang Closed	Iron Core on BC Oscillator Coil L2
3. 600 Kc	100 Mmf	Antenna	BC-Tune to Signal	Iron Core on BC Antenna Coil T2
4. 1625 Kc	100 Mmf	Antenna	BC-Gang Open	Trimmer C9 on BC Oscillator Coil L2
5. 1400 Kc	100 Mmf	Antenna	BC-Tune to Signal	Trimmer C7 on BC Antenna Coil T2
6. Repeat items 2 to 5 in specified order until no further adjustments are necessary.				
7. 5.25 Mc	400 Ohm (carbon)	Antenna	SW - Gang Closed	Iron Core on SW Oscillator Coil L1
8. 6.0 Mc	400 Ohm (carbon)	Antenna	SW - Tune to Signal	Iron Core on SW Antenna Coil T1
9. 16.25 Mc	400 Ohm (carbon)	Antenna	SW - Gang Open	Trimmer C8 on SW Oscillator Coil L1
10. 14.0 Mc	400 Ohm (carbon)	Antenna	SW - Tune to Signal	Trimmer C6 on SW Antenna Coil T1
11. Repeat items 7 to 11 in specified order until no further adjustments are necessary.				

NOTE: In making alignment adjustments on the SW band, it is essential that a check be made each time the receiver or generator is tuned to ensure that the proper signal is tuned in, instead of the image. When the receiver and generator are correctly tuned, the image may be heard by moving the generator 910 KC higher in frequency or tuning the receiver 910 KC lower in frequency.

