

PHILCO MODEL 522 PHILCO MODEL 502

SPECIFICATIONS

A five tube receiver with semi band spread on one S.W. band; a heptode converter followed by high gain I.F. stage and diode/triode detector amplifier with a beam-power output tube.

Model 502 covers B/C frequencies only
" 522 " B/C + two S.W. Bands

CABINET: Bakelite moulded.

Speaker: - P.M.

TUBES:

757	- Heptode Converter
7B7	- I.F.
6AV6	- Diode/triode
6AQ5	- Output
6X4	- Rectifier

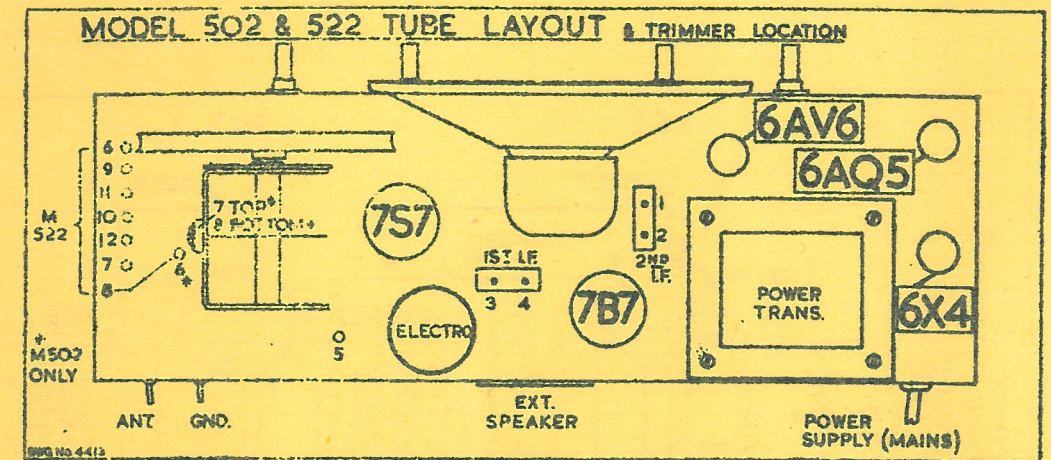
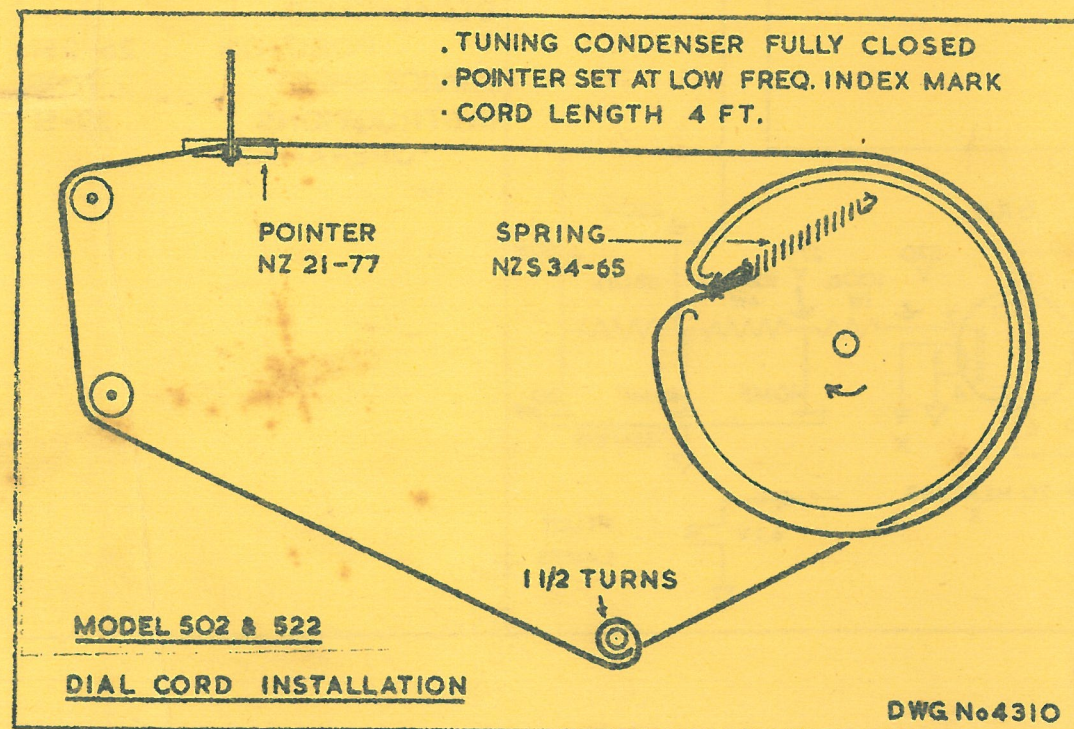
BAND COVERAGE:

BC - 535 KC/s - 1600 KC/s
S.W.1 2 MC/s - 6 MC/s
S.W.2 9.4 - 15.5 M/cs

INTERMEDIATE FREQUENCY: 455 KC/s

POWER SUPPLY: 230 V A/C 50 Cycles

POWER CONSUMPTION: 40 W.



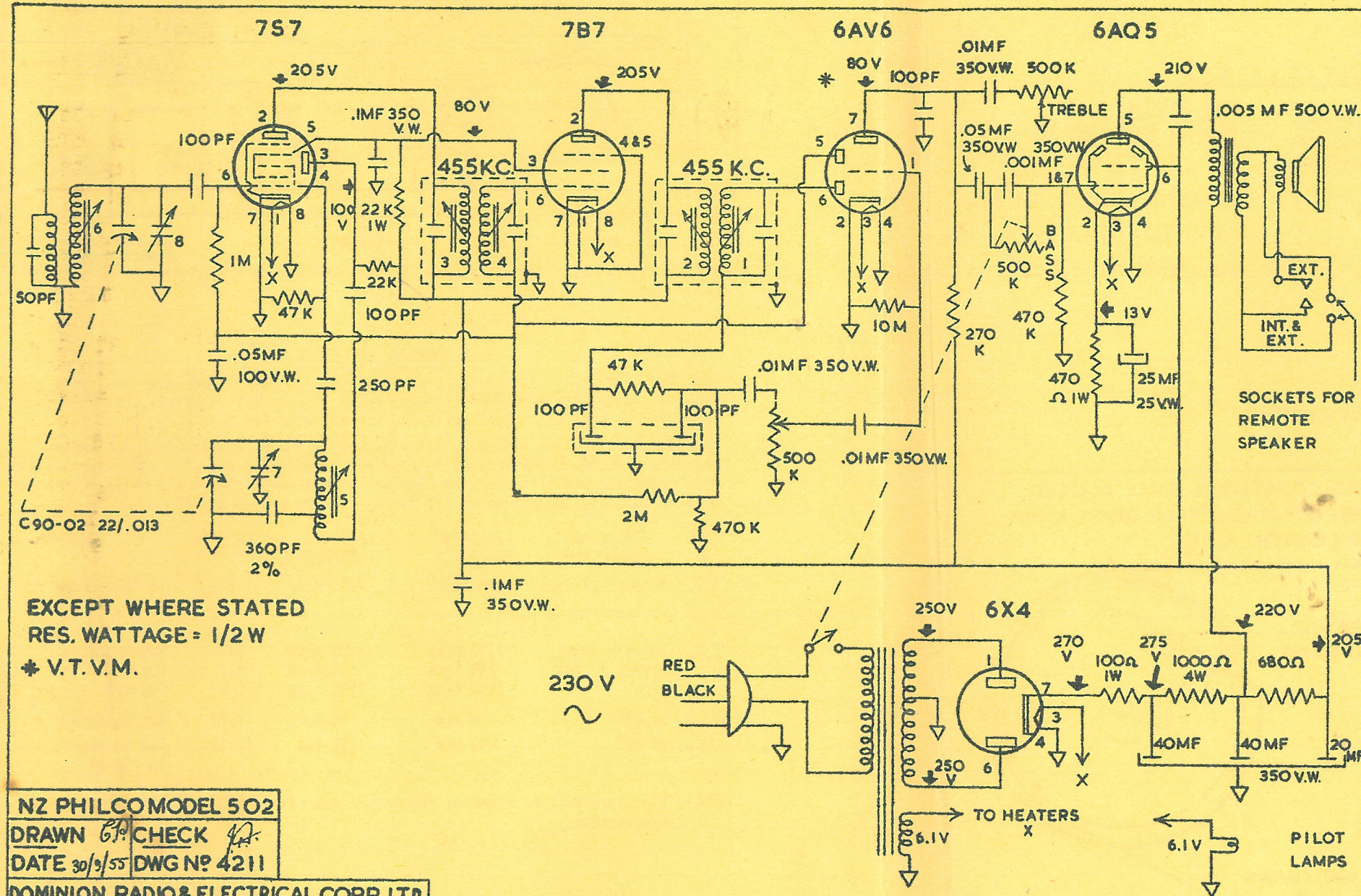
ALIGNMENT PROCEDURE

EQUIPMENT REQUIRED - All wave signal generator and output indicator use dummy aerial in series with generator for alignment or if this is not available, use 200 mmfd. condenser in series for B.C. and a 400 ohm resistor for S.W.

PROCEDURE- Commencing with B.C. set frequency with no. 7 and adjust for maximum response with No. 8 trimmers, with receiver at 600 K/cs adjust 5 and 9 for maximum then recheck 7 and 8 for S.W. Set frequency by means of No. 6 and maximum with No. 10 tune to 10 M/cs. and adjust No. 11 for maximum recheck 6 and 10.

BAND	GENERATOR CONNECTION	GENERATOR FREQUENCY	RECEIVER FREQUENCY	TRIMMERS	REMARKS
I.F.	Through .1 mfd to converter grid	455 K/cs	1600 K/cs	1-2-3-4	In that order for maximum response recheck.
B.C.	Through dummy aerial to Ant wire	1400 K/cs 600 K/cs 1400 K/cs	1400 K/cs 600 K/cs 1400 K/cs	6-7 5-8 6-7	Set frequency Check " Recheck
S.W.1.	as B/C	6 mcs	6 mcs	9-10	Set frequency
S.W.2.	as B/C	12 mcs	12 mcs	11-12	Set frequency check for image

NOTE: The image will be found on the signal generator .91 mcs higher than the fundamental.



REPLACEMENT PARTS LIST

PART	NZ PART No
TRANSFORMER -	
" - POWER	S10-560
" - B.C. ANT.	S16-1501
" - " OSC	13-1502
CABINET	18-502/22
DIAL POINTER	21-77
" SCALE	20-502
CONTROL-TONE W/SW	
BASS	37-101
" -TONE	
TREBLE	37-102
" -VOLUME	37-100
SPEAKER	38-45
SPRING-DIAL CORD	S34-65
TRACK-POINTER	88-101
DECAL-KNOB	
POSITION	26-251
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