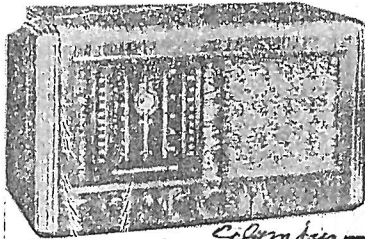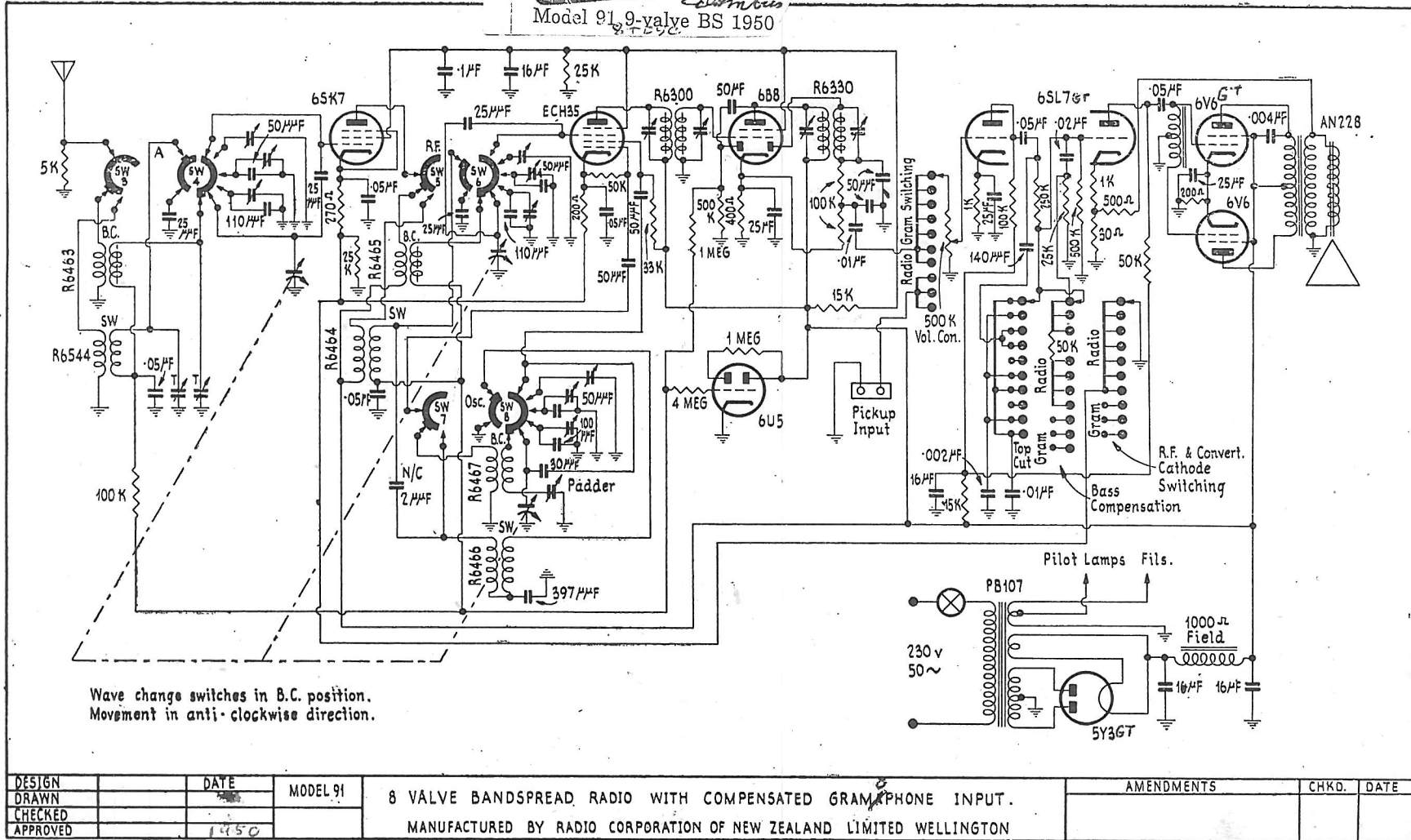Wave change switches in B.C. position.
Movement in anti-clockwise direction.

DESIGN		DATE	MODEL 91	8 VALVE BANDSPREAD RADIO WITH COMPENSATED GRAMAPHONE INPUT.	AMENDMENTS	CHKD.	DATE
DRAWN							
CHECKED				MANUFACTURED BY RADIO CORPORATION OF NEW ZEALAND LIMITED WELLINGTON			
APPROVED							

MODEL 91 (1950)

Model 91 9-valve BS 1950

Columbus

8 VALVE BANDSPREAD RADIO WITH COMPENSATED GRAMOPHONE INPUT.
MANUFACTURED BY RADIO CORPORATION OF NEW ZEALAND LIMITED WELLINGTON

Wave change switches in B.C. position.
Movement in anti-clockwise direction.

DESIGN	DATE	MODEL 91		AMENDMENTS	CHKD.	DATE
DRAWN						
CHECKED						
APPROVED	1950					

Clough couple R.F. Primaries,

distortion: some shorted turns on driver choke   check S/B 700Ω or
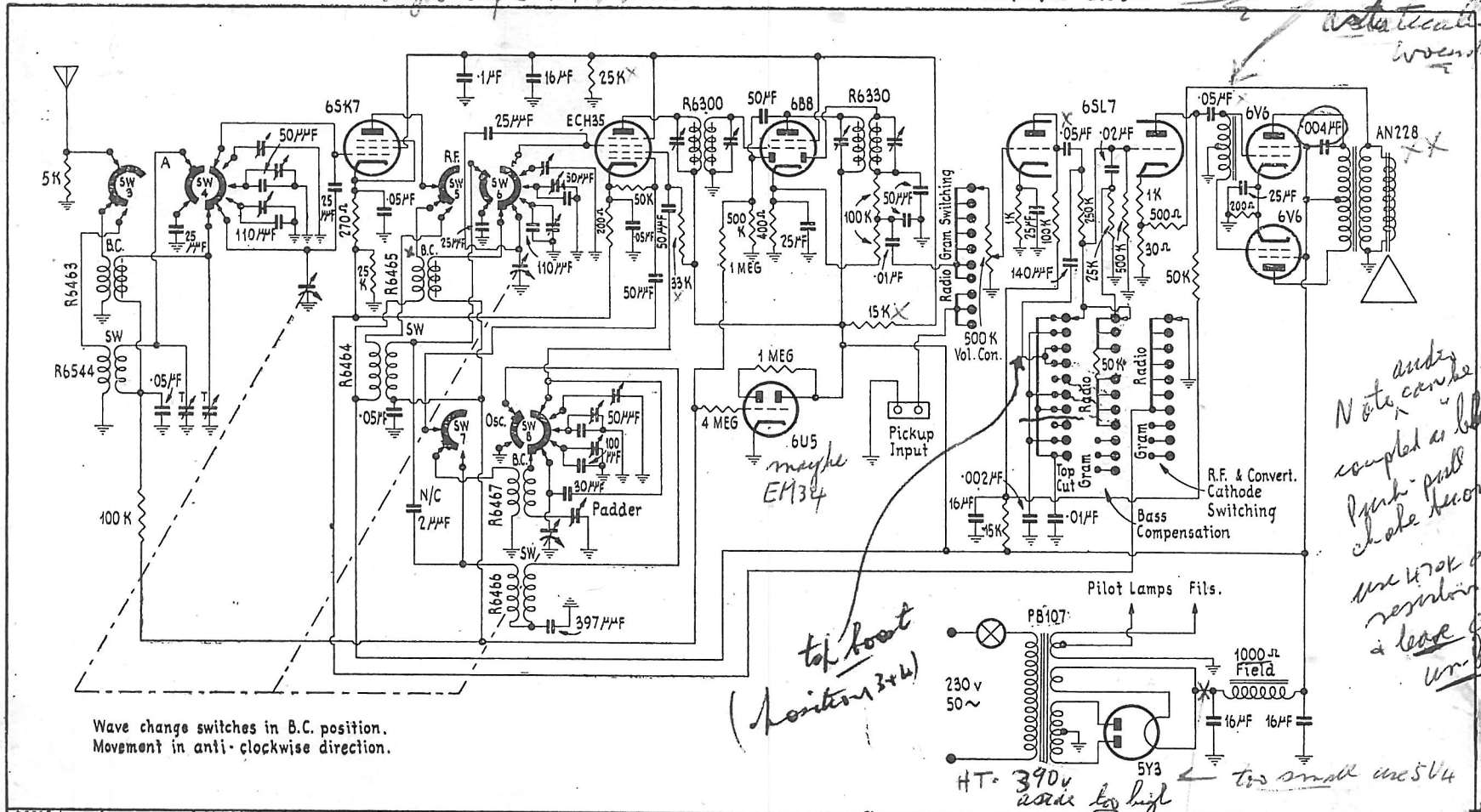
asterically wound

6SK7   ·1µF   16µF   25K×
50µµF   R6300   50µF   6B8   R6330   6SL7   ·05µF   6V6   ·004µF   AN228
25µµF   ECH35   ·05µF ·02µF   ××
R.F.   30µµF   1K   1K   500Ω
5K   SW   SW   SW   25   ·05µF   200Ω   50K   25µF   100K   250K   200Ω   25µF   6V6
3   4   5 6   110µµF   500   400µF   140µF   25K   500K   30Ω
270Ω   33K   K   1MEG   ·01µF   500K
R6463   25   R6465   B.C.   25µµF   50µF   50µµF   Vol. Con.
K   110µµF   15K×   500K
B.C.   R6464   1MEG   Radio Gram Switching
SW   ·05µF   Radio   Radio
R6544   ·05µF   4 MEG   6U5   Pickup   Top   Gram   Gram
·05µF   T   T   SW   Osc.   SW   50µµF   maybe   Cut   R.F. & Convert.
100K   7   B.C. 8   100   EM34   Input   Cathode Switching
N/C   4   ·002µF
2µF   R6467   30µµF   Padder   ·002µF   16µF   ·01µF   Bass
SW   ·15K   Compensation

Note ·004 one short only

Note anode coupled as "buffie" — Push-pull if choke becomes faulty use 470K grid resistor & leave cathode un-bypassed

R6466   397µµF
Top boost (positions 3+4)

Pilot Lamps Fils.
230v   PB107   1000Ω
50~   Field
Wave change switches in B.C. position.   16µF   16µF
Movement in anti-clockwise direction.   5Y3
HT. 390v aside too high   too small use 5V4

DESIGN	DATE		8 VALVE BANDSPREAD RADIO WITH COMPENSATED GRAMAPHONE INPUT.	AMENDMENTS	CHKD.	DATE
DRAWN		MODEL 91				
CHECKED			MANUFACTURED BY RADIO CORPORATION OF NEW ZEALAND LIMITED WELLINGTON			
APPROVED						

The Last of the BIG ONES
another un-annotated copyfield
model 91

Power Trans. PB101
PT378   260 volt aside   200Ω   650v
230v aside   B+

insert 250Ω 10W w/W resistor Anode excessive B+ from 300v to 260v

91P (PM Spkr)
91R (Rola Knowles) does not have drive choke
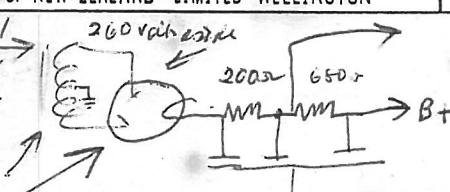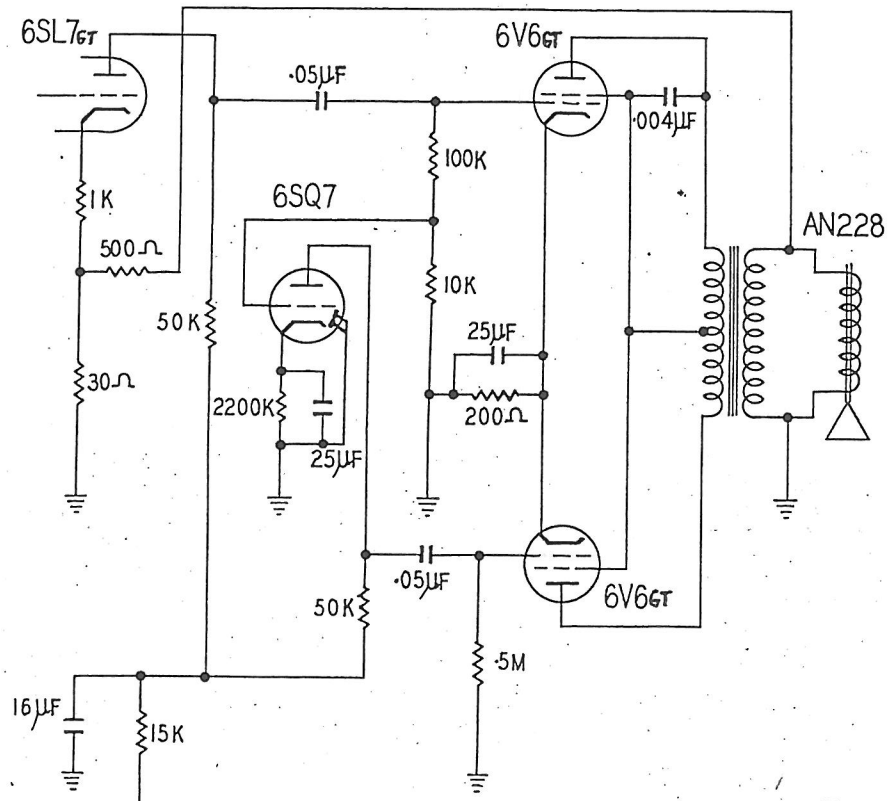
DESIGN	LAB	DATE	MODEL 91	**MODIFICATION TO AUDIO STAGE: SERIAL NOS 52101 TO 52300**
DRAWN	J.J.C.	7-5-56	91R	(AUDIO COUPLING CHOKE HAS BEEN REPLACED WITH A PHASE INVERTER VALVE) 6SQ7
CHECK	BBorb	7-5-56	D.No. 384	MANUFACTURED BY RADIO CORPORATION OF NEW ZEALAND LIMITED
APPROVED		10-5-56		

COLUMBUS 91

6B8

6V6

CHOKE

6V6

543

CAP

ECH
35

6SL7
ECC35

6SK7

6U5
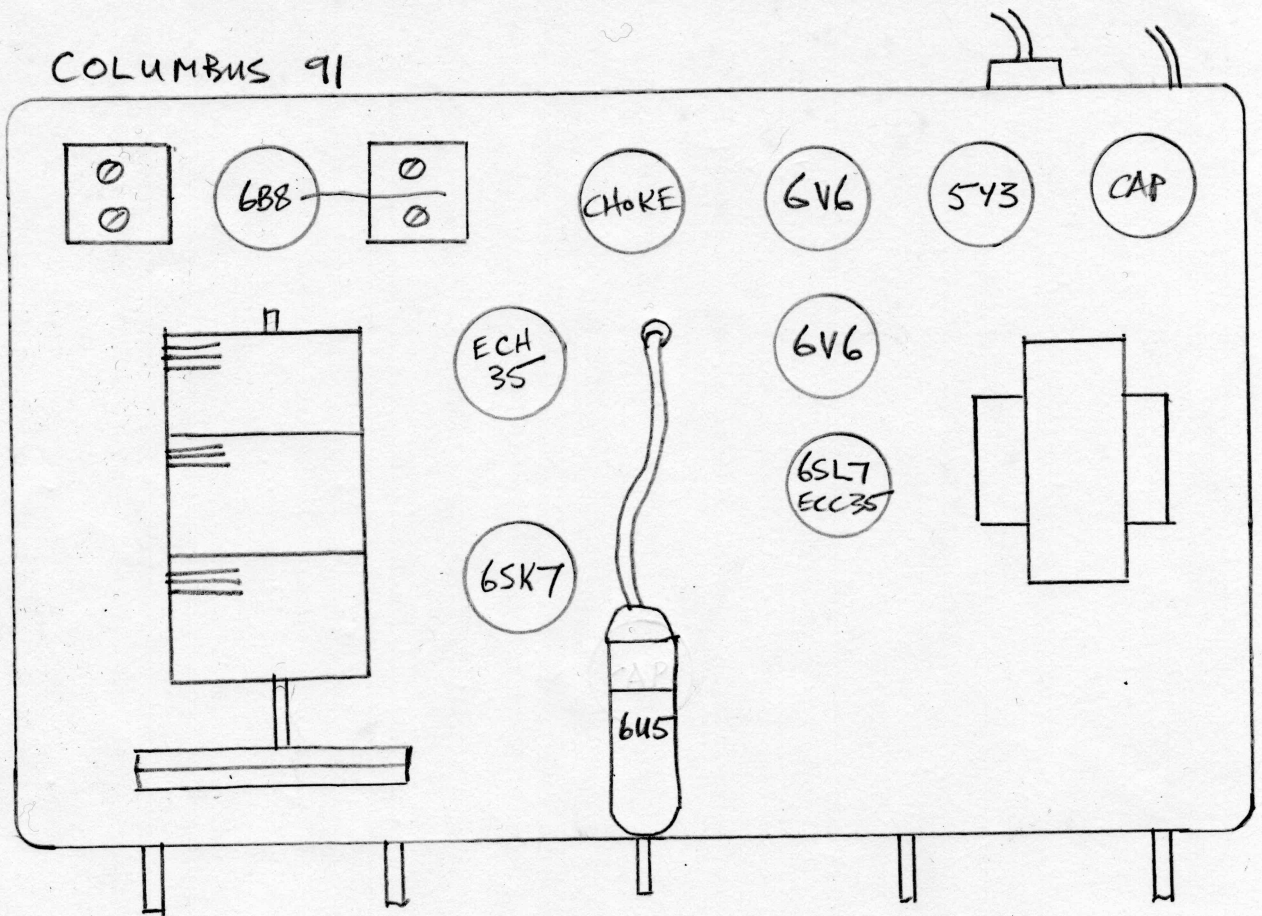
Drawn by J Davidson

COLUMBUS 91
VIEW UNDER CABINET
LOCATION OF
TRIMMERS

ANT   OSC   RF

19m
25m
31m

MW
SW

↑
PADDER