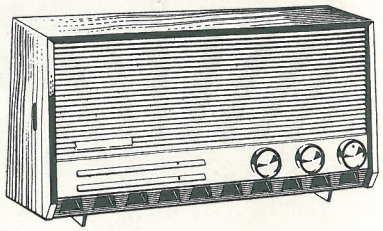
PHILIPS Service

PHILIPS ELECTRICAL INDUSTRIES OF NEW ZEALAND LIMITED
143A HOBSON STREET, AUCKLAND P.O. BOX 5124 PHONE 34-410
77 FERRY ROAD, CHRISTCHURCH P.O. BOX 1488 PHONE 65-244
181-195 WAKEFIELD STREET, WELLINGTON G.P.O. BOX 2097 PHONE 57-250



B2Z56U.

ALIGNMENT INSTRUCTIONS.

Wave Range
512 - 1635 KHZ

Valves
UCH81 : UBF89
UCL82 : UY85

Loudspeaker
AD 2400W
3 ohms

I.F. Frequency
455 KHZ

ALIGNMENT OF RECEIVER

Connect earth of Signal Generator via .05 mfd Capacitor to metal frame of tuning capacitor.
Before commencing any alignment adjustments, refer to TRIMMER LOCATION DIAGRAM

INTERMEDIATE FREQUENCY ALIGNMENT INSTRUCTIONS

Turn tuning capcitor to minimum capcity (higher frequency) and the volume control to maximum. Keep the audio output level constant at approximately 50 M.W. during alignment operations.

Trimming Frequency	Connect Signal Generator	Adjust for Max. Output
455 KHZ Modulated. 30%	Via 10K pfd capacitor to Grid (Pin 2) of V1 UCH81.	Cores L8-L7-L6-L5 in this order

R.F. CIRCUIT ALIGNMENT

The local oscillator is at a higher frequency than the signal frequency.
Coverage = 512 - 1635 KHZ.
Connect signal generator via Standard Dummy Aerial to Aerial socket of receiver.

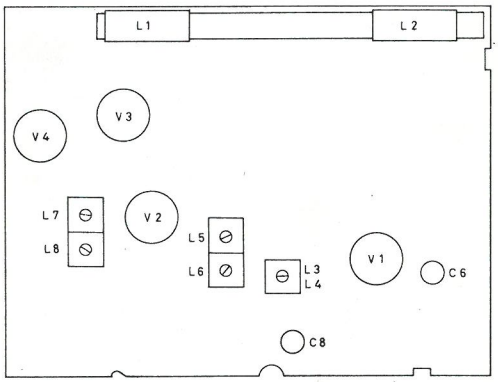
Trimming Frequency	Gang. Position	Trim for Max. Output
512 KHZ Modulated 30%	Fully closed Maximum capacity	L3 L4 Oscillator coil core. L1 Aerial coil on rod.
1635 KHZ Modulated 30%	Fully open Minimum capacity	C8 Oscillator Trimmer C6 Aerial trimmer

Repeat the above procedure of RF Alignment, then seal trimmers and aerial coil on ferrox-cube rod.

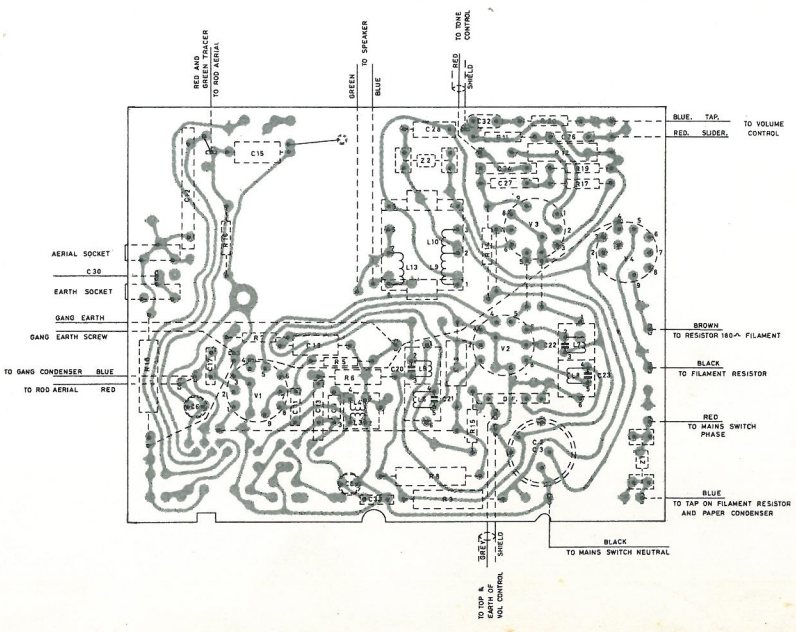
With the tuning knob close the gang tuning capacitor, and adjust the pointer to the low frequency end of the dial scale (left hand end). A hole is provided in the left hand floor section of the cabinet in order to provide some adjustment of the pointer after the receiver has been assembled.

Sensitivity: 16 microvolts at aerial terminal for 50 milliwatts output.

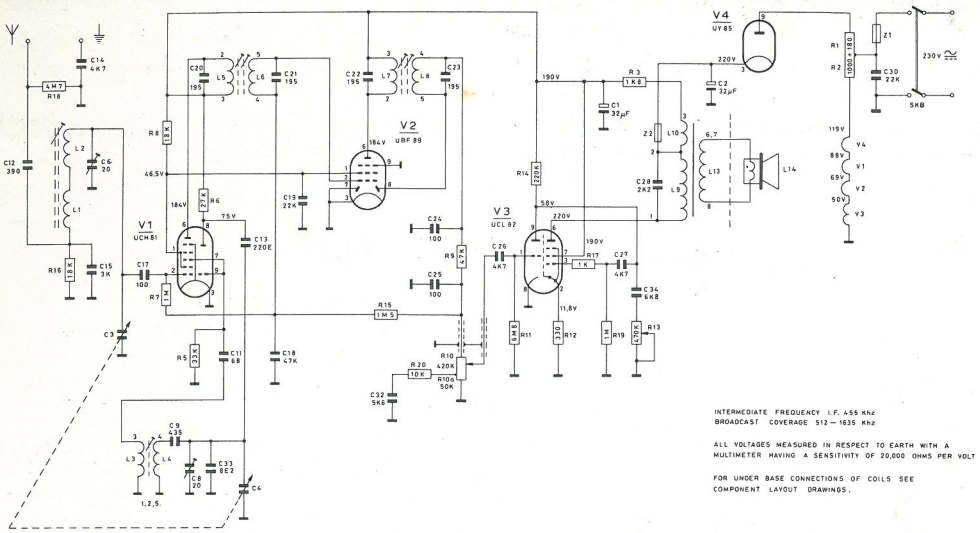
TRIMMER LOCATION DIAGRAM.



BOTTOM VIEW OF PRINT BOARD.

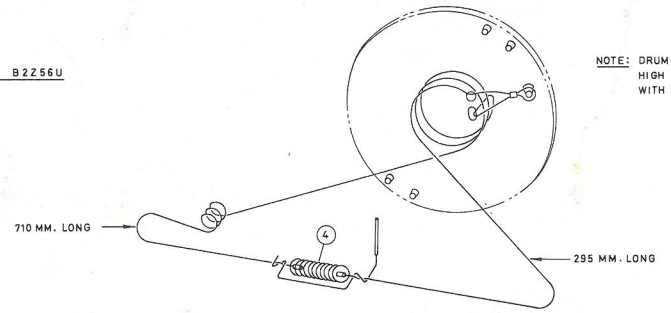


CIRCUIT DIAGRAM.

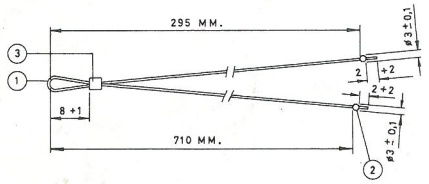


DRIVE CORD ASSEMBLY.

MODEL B2Z56U



NOTE: DRUM IS SHOWN IN THE HIGH FREQUENCY POSITION WITH GANG CONDENSER OPEN



DRIVE CORD ASSY. EN 448 52

1. DRIVE CORD K 415 JB/1
2. BRASS TUBES 28 118 57
3. BUSH WE 497 22 (ALTERNATIVELY TIE A SUITABLE KNOT).
4. SPRING 3122 101 00491

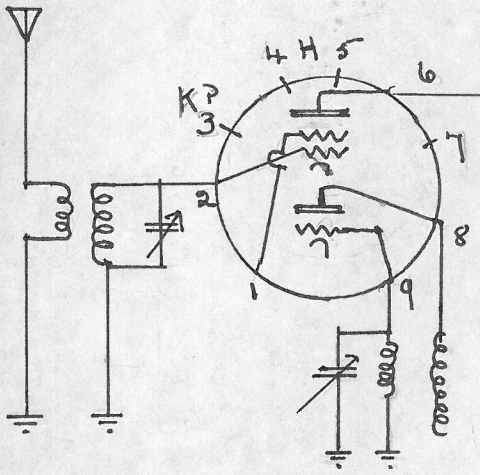
PARTS LIST.

Valves

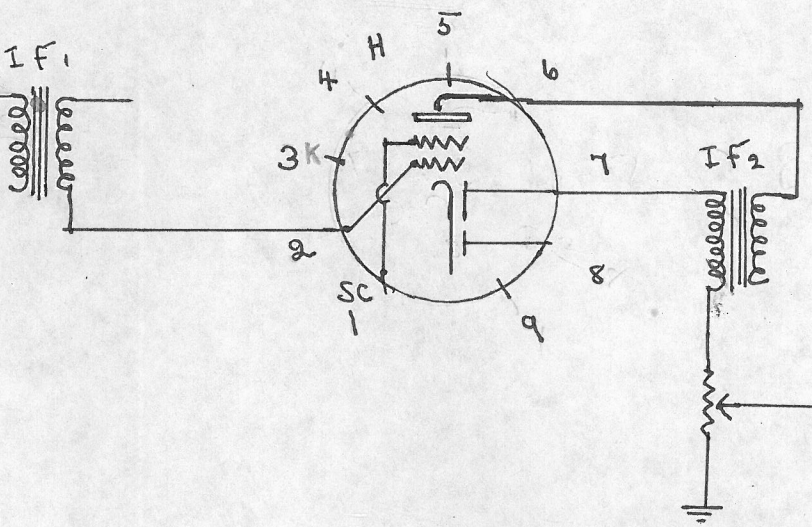
UCH81	Mixer - Oscillator
UBF89	IF amplifier - detector
UCL82	Audio amp - output
UY85	Rectifier
Loudspeaker	AD2400W
Knobs (Vol. & Tuning)	3122.108.00400
Volume Control (with mains switch)	R10 EO98CD/OOB14
Tone Control	R13 EO98CG/OOB13

Aerial Coil	L1 - L2	3122.108.21230
Osc. Coil	L3 - L4	A3.129.75
1st I.F. coil	L5 - L6	A3.129.23
2nd I.F. Coil	L7 - L8	A3.129.23
Output transformer	L9 - L10	3122.108.30370
Tuning Gang	49.002.67	49.002.67
Mains dropping resistor	R1 R2	B1.635.76
Fuse 315 m/a		4823.253.27311
Fuse 63 m/a		4823.253.27639

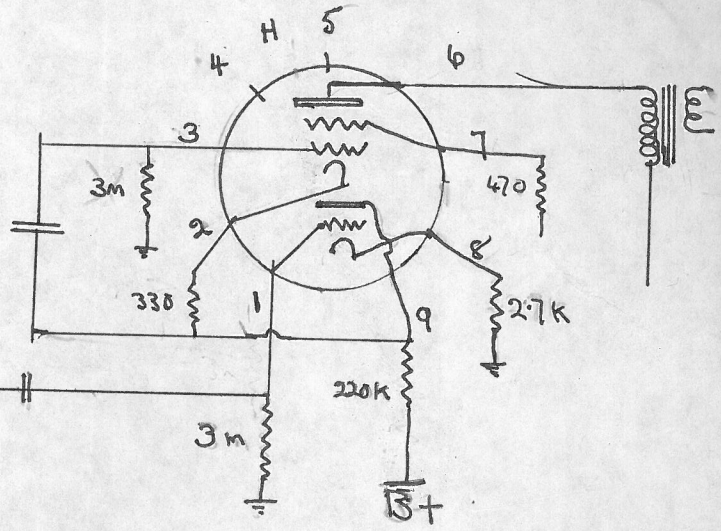
UCH 81 mixer



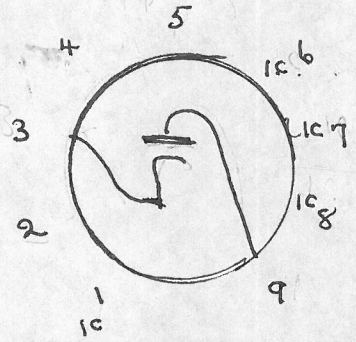
UBF 89 IF - diodedet



UCL 82 Driver - out-put



UY 85 halfwave rectifier



Philips
Model B2z56u

this is not the Philips circuit but the suggested connections for guidance!

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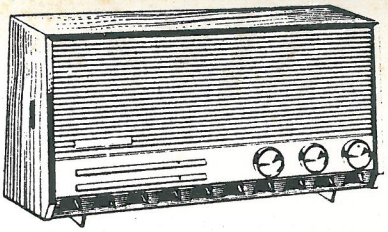

PHILIPS B2Z56U.
FLEETWOOD FL256U.
PHILIPS B2Z55U

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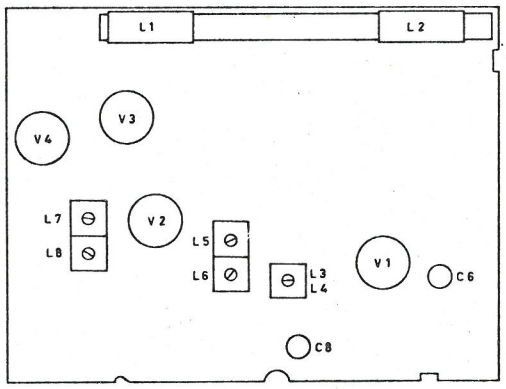
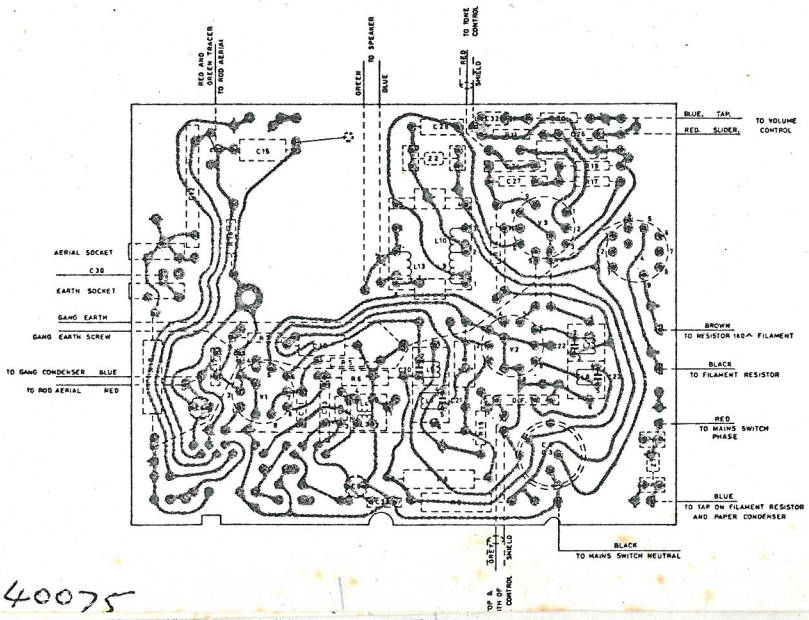


BOTTOM VIEW OF PRINT BOARD.



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