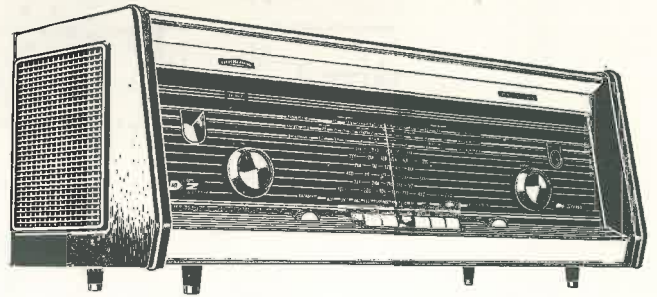


**PHILIPS***Service***NOTES**

September, 1962

**Hilversum Conbrío  
Model B5Z17A**WAVE RANGE

BC517-1630 KC/S  
SW1 3.16-10 MC/S  
SW2 12.6-26.8 MC/S  
BS 9.4-12.4 MC/S

I. F. 455 KC

597

VALVES

ECH81, EBF89, ECC83  
2 x ECL86, 2 x EL86, EM80, EZ81

LOUDSPEAKERS

2 x AD3700.AM (800 ohm)

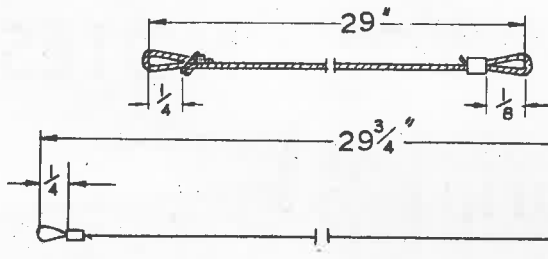
ALIGNMENT INSTRUCTIONS

Refer to trimmer location diagram

Volume control maximum, gang minimum, O. P. meter to L. H. channel, dummy load (800 ohms) to R. H. channel, bass and treble to minimum.

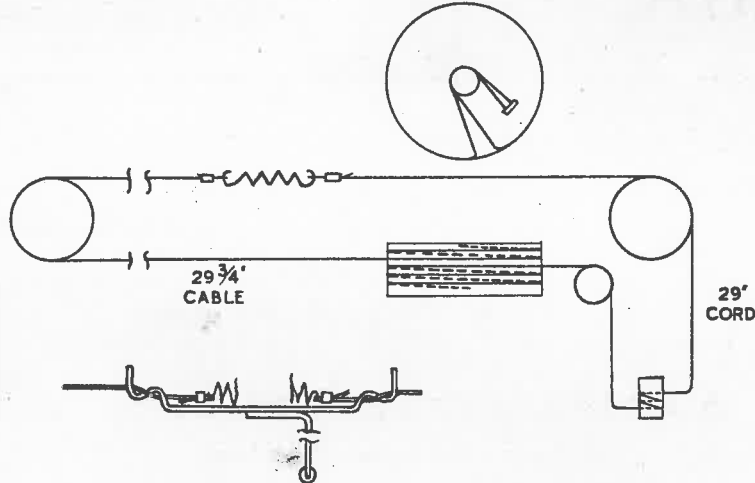
Trimming Frequency	Push Button	Adjust core and condensers for maximum output
455KC Thru 10K pfd To grid ECH81	Broadcast	Unscrew cores of EBF89 plate and EBF89 grid then (1) diode L25, (2) EBF89 plate coil L24 (3) ECH81 plate coil L22 (4) EBF89 grid coil L23
550KC	Broadcast	BC osc. coil core L15-L16, BC aerial coil on rod L10
1500KC	Broadcast	BC osc. trimmer C27, BC AE trimmer C10
3.4 MC	SW1	SW1 osc. coil core L17, L18, SW AE core L13, L14
9.4 MC	SW1	SW1 osc. trimmer C28, SW1 AE trimmer L11, L12
13 MC	SW2	SW2 osc. coil core L19, 20, 21
25 MC	SW2	SW2, AE coil core SW2 osc. trimmer C29, SW2 AE trimmer C20
12 MC	BS	BS osc. trimmer C30, AE trimmer C8

Repeat all above alignment procedures except I. F. alignment.

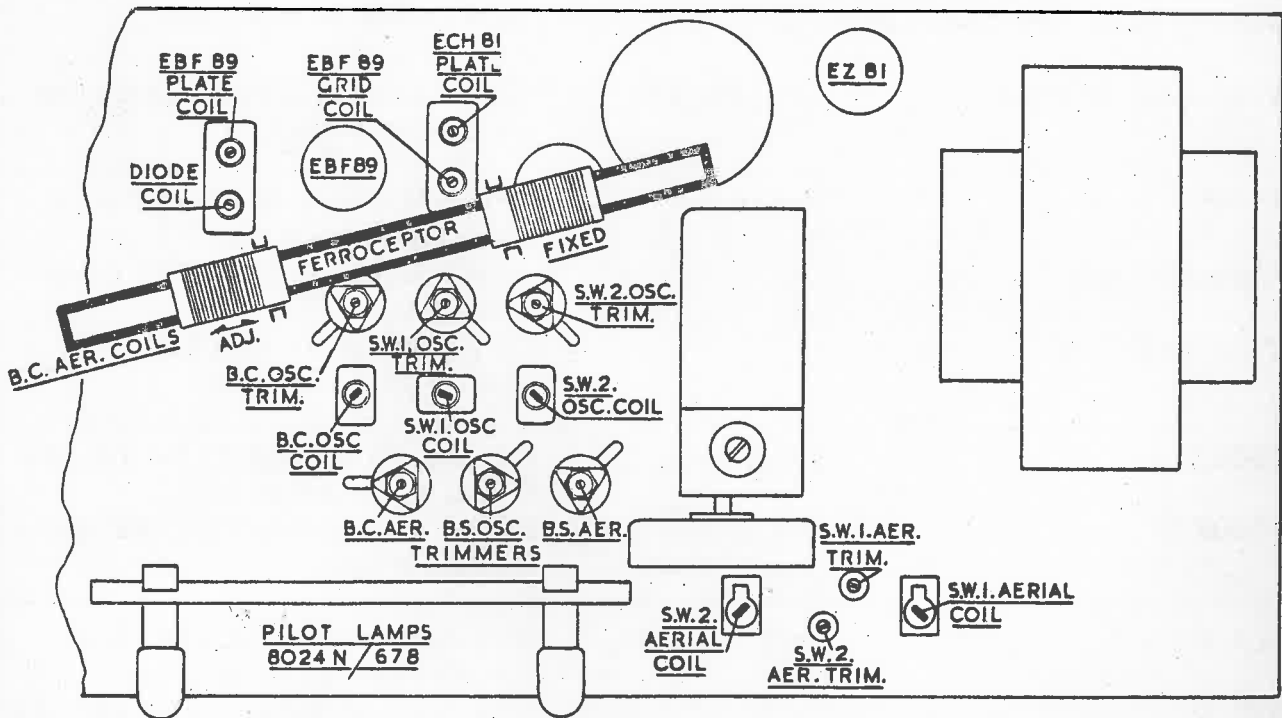


DRIVE CORD ASSEMBLY EN 448 30  
 CORD K 415JB1  
 EYELET WE 497 22

DRIVE CABLE ASSEMBLY EN 448 29  
 CABLE N 449 KA/21  
 BRASS TUBE 2B 11857  
 SPRING A3 646 82



**DIAL CORD DIAGRAM**



**TRIMMER LOCATION DIAGRAM**

MODELS B5Z17A  
 F7Z18A  
 TRIMMER LOCATION DIAGRAM

Published by  
 PRODUCT MAINTENANCE DIVISION, PHILIPS ELECTRICAL INDUSTRIES (N.Z.) LTD.  
 P.O. BOX 2097, WELLINGTON



## PARTS LIST

### COILS

L1, L2, L3	Mains transformer	EN63123
L9, L10	Rod AE assmb. BC	A3.116.92
L11, L12	Aerial coil SW1	A3.802.52
L13, L14	Aerial coil SW2 and BS	A3.118.40
L15, L16	Oscillator coil BC	A3.125.72.1
L17, L18	Oscillator coils SW1	EN.471.71
L19, L20, L22	Oscillator coil SW2 and BS	A3.125.50
L22, L23	1st I. F. coil	A3.127.72
L24, L25	2nd I. F. coil	A3.126.84
L26	Coupling coil	A3.803.61

### CONDENSERS

C6, C7	Gang condenser	49.001.94
C1, C2, C3	Electrolytic condenser	AC5480/50+50+50 mfd
C4, C5	" "	AC5307/32+32 mfd
C59	" " 40v	C425 ALG 6.4 mfd
C60	" " 40v	C425 ALG 6.4 mfd
C61	" " 16v	C425 AL/E40 mfd
C62	" " 16v	C425 AL/E40 mfd
C63	" " 300v	AC5127/8 mfd
C64	" " 300v	AC5127/8 mfd
C65	" " 200v	AC8125/12.5 mfd
C66	" " 200v	AC8125/12.5 mfd
C45	" " 40v	C425 ALG6.4 mfd
C46	" " 40v	C425 ALG 6.4 mfd

### RESISTORS

R19	Balance control	E098CG/00B15
R34, 35	Bass control	E091CG/00B15
R38, 39	Treble control	E091CG/00B12
R20, 25	Volume control	E091CG/00B23
R66, 25	Wire wound resistor 5.5w	83540B/330E

### MISCELLANEOUS

Push button unit	A3.298.22
Dial	EN.852.94
Knob, balance control	A3.783.74
Knob, volume and tuning assemb.	A3.782.68
Aerial/earth	{ Plug aerial F041AA/02
	{ " earth F041AA/01
	{ Socket A3.382.13
Extension speaker	{ Plug 978/3x7
	{ Socket A3.410.65
Tape recorder	{ Plug AE505.92
	{ Socket A3.788.88
Record player	{ Plug A3.814.05
	{ Socket A3.788.77

### MODIFICATION SERIAL NO. 77550 ONWARDS

Resistors R56 and R57 changed from 1800 ohms to 1200 ohms



# PHILIPS ELECTRICAL INDUSTRIES OF NEW ZEALAND LIMITED

HEAD OFFICE: 181-195 WAKEFIELD STREET, WELLINGTON. G.P.O. BOX 2097  
TELEPHONE 57-250 (12 lines)  
TELEGRAMS "ARGENTA"

May, 1963

TO ALL SERVICE DEALERS:

Model B5Z17A

Reports have been received from the field regarding distortion in this model.

Investigation shows this to be Envelope Distortion and may be eliminated by two possible methods :


- (a) Remove 10K coupling Condenser C40. This however will allow diode current to flow through the volume control and may give rise to noise in the control.
- (b) Replace R10 (220K) resistor by 100K resistor or shunt R10 with another 220K resistor.  
This method gives a reasonable compromise and the distortion virtually disappears. Although the A. V. C. voltage is reduced, signals up to 1 volt may still be handled by the receiver without overload taking place.

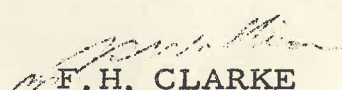
It is recommended that method (b) is the one to use.

Replacement of speakers for complaints of distortion is not recommended before trial of the above suggestions.

To prevent 70 Kc/s instability C56 should be separated from R25 in the physical arrangement of components.

Yours faithfully,  
PHILIPS ELECTRICAL INDUSTRIES OF N. Z. LTD.

  
H. J. MAXWELL  
R. G. T. & Appliances Division T. C.

  
F. H. CLARKE  
Sales Manager