

PHILIPS

SERVICE

NOTES



Model L3Z73T

WAVERANGE

517—1622 kc/s

I.F.

455 kc/s

LOUDSPEAKER

AD3460Z

TRANSISTORS

OC44, OC45, OA79 Diode,
OC71, 2xOC72

BATTERIES

Eveready Type 744/6V
Current Consumption: 11-14 Ma

VOLTAGE TABLE

All measurements taken with 20K ohms per volt meter

Plus/Minus 5% Tolerance

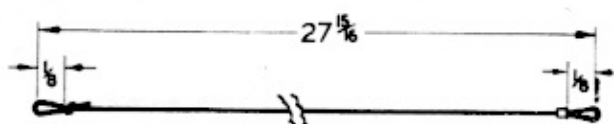
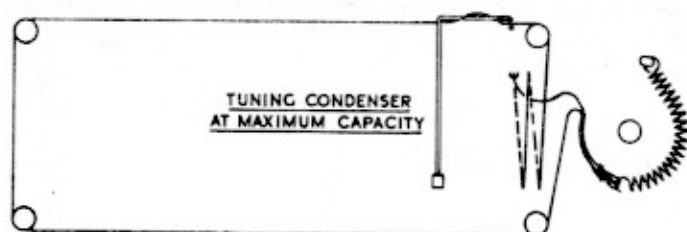
Transistors	Function	Collector	Base
OC44	Frequency Converter and Oscillator	4.8V	1.14V
OC45	I.F. Amplifier	4.8V	0.53V
OC45	I.F. Amplifier	5.3V	0.66V
OC71	1st Audio	2.5V	0.8V
OC71	2nd Audio	5.4V	1.2V
2xOC72	Matched Pair Output Transistors	6V each	0.2V each

ALIGNMENT OF RECEIVER

I.F. ALIGNMENT

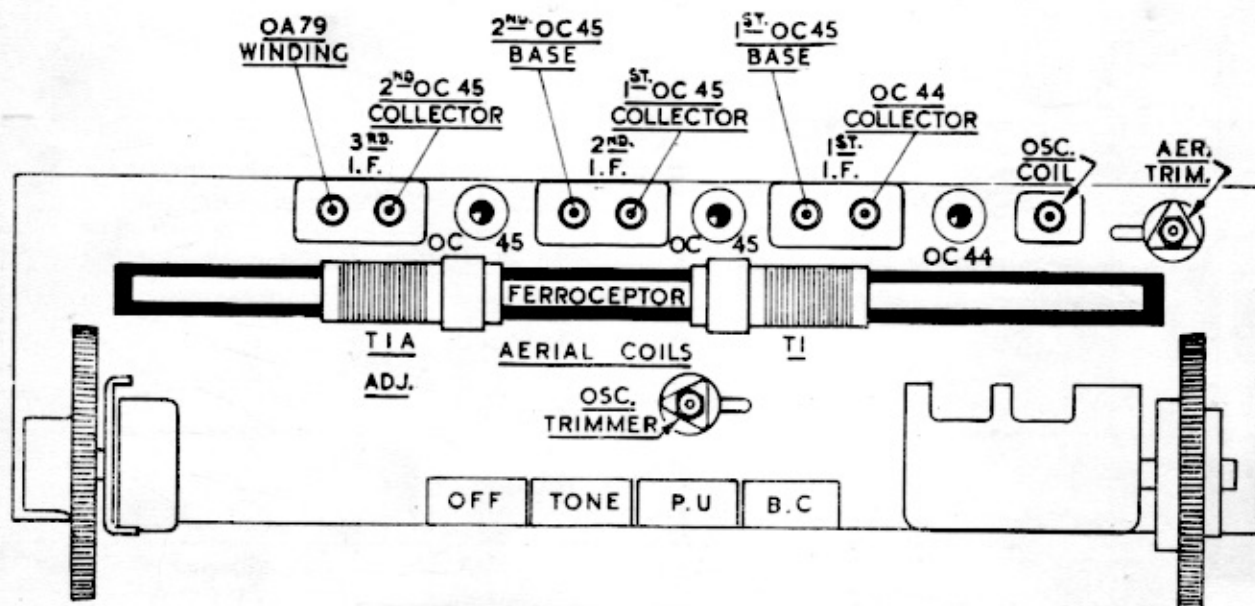
Connect Sig. Gen.	Trimming Frequency	Adjust to Maximum Output
Via 33000 pf to base 2nd OC45	455 K.C.	3rd I.F. OC79 Winding, 2nd OC45 Collector Winding
Via 33000 pf to base 1st OC45	455 K.C.	2nd I.F. 2nd OC45 Base Winding, 1st OC45 Collector Winding
Via 33K ohm top of 1st I.F. (OC44 Col- lector Plate)	455 K.C.	1st I.F. OC44 Collector Winding, 1st OC45 Base Winding
Waverange	R.F. Alignment, Connect Signal Generator to Ferroceptor by means of Coupling Winding	
BC Damp with 10K ohm across T1 and T1A	Trimming Frequency	Adjust to Maximum Output
	1500 K.C.	Osc Trimmer
	550 K.C.	Osc, Coil, Slug
Remove Damping	1500 K.C.	Ae. Trimmer
	550 K.C.	T1A (Slide along Rod)

PHILIPS TRANSISTOR ACE"—MODEL L3Z73T



CORD ASSEMBLY	A3 801 47
CORD	K 030 JB/1
EYELET	B 002 AF/3X4
SPRING	A3 646 80

DIAL CORD DIAGRAM



TRIMMER LOCATION DIAGRAM

WARNING

When repairing equipment using Transistors and Germanium Diodes, care must be taken to see that they are not damaged by excessive heat or voltage.

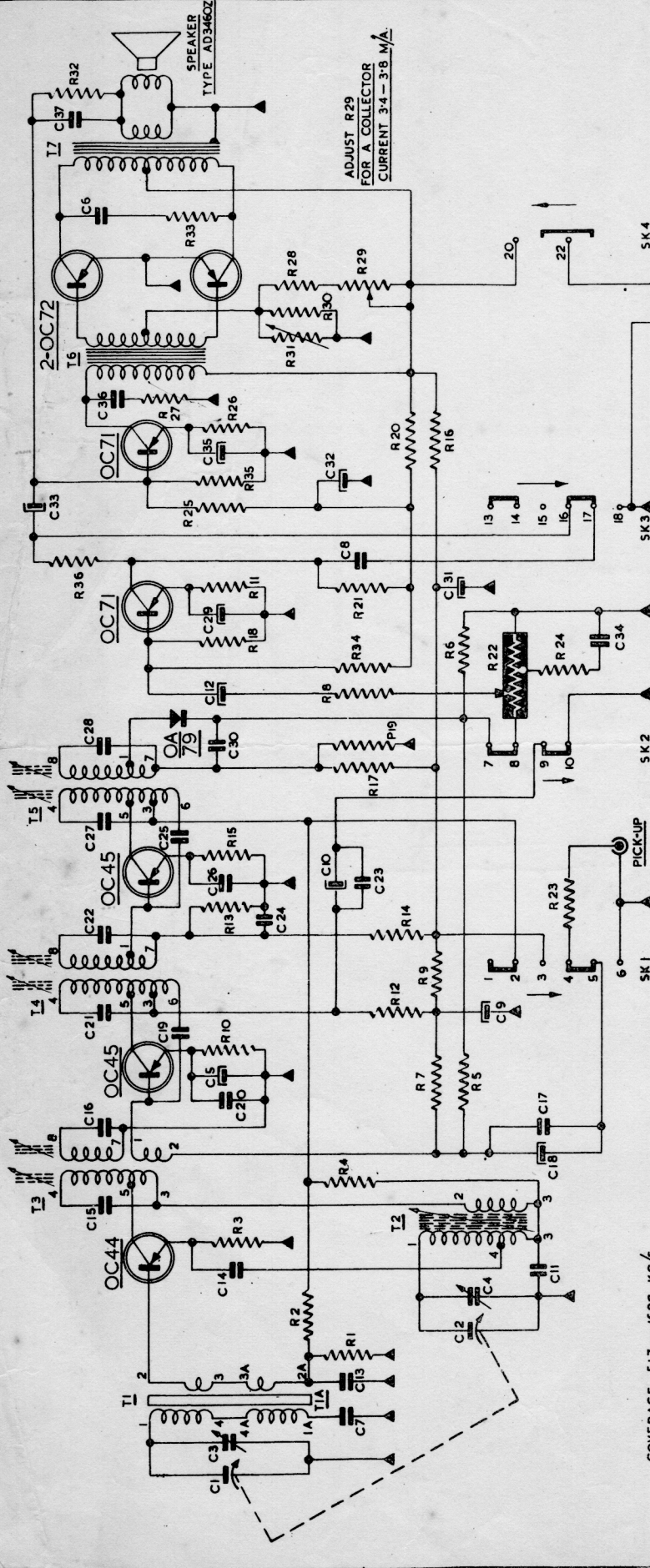
SOLDERING.—Use a pair of pliers, or tweezers with wide points to grip the wire between the Transistors and the joint to be soldered, so conducting the heat away.

Be careful to connect the batteries to the correct Polarity.

Published by

PRODUCT MAINTENANCE DIVISION, PHILIPS ELECTRICAL INDUSTRIES (N.Z.) LTD.

P.O. BOX 2097, WELLINGTON



COVERAGE 517-1622 KC/S.

I.F. 455 KC/S.

TRANSISTOR CONNECTIONS

RED SPOT

PUSH BUTTON SWITCH SHOWN IN DIAGRAM AFTER THE 'OFF' BUTTON HAS BEEN DEPRESSED. BUTTON SK3 IN MAXIMUM HIGH NOTE POSITION.

SK4 SK3 SK2 SK1

OFF TONE PICKUP B.C.

PICK-UP

SK1 SK2 SK3 SK4

6V DC

EVEREADY TYPE 744

ADJUST R29 FOR A COLLECTOR CURRENT 3.4-3.8 M/A

SPEAKER TYPE AD3460Z

MODEL L3Z73T

PORTABLE RECEIVER

TRANSISTOR ACE

MAIN COMPONENTS																					
C1	9-498 MFD	TUNING	C18	3-2	MFD	70V	ELECTROLYTIC	C35	100 MFD	3V	ELECTROLYTIC	R13	3900Ω	±5%	1/4W	CARBON	R30	82Ω	±5%	1/4W	MFA 8-58
C2	8-168 MFD	CONDENSER	C19	22	MFD	±1% WIRE TRIMMER (ADJ.)	C36	1500 MFD	CERAMIC	R14	22K	±5%	1/4W	"	"	"	R31	N.T.C. RESISTOR	B832001A/130E	"	
C3	3-30 MFD	AIR TRIMMER	C20	0.1	MFD	125V	MYLAR	C37	330 MFD	"	R15	560Ω	±10%	1/4W	"	"	R32	33K	±10%	1/4W	CARBON
C4	3-30 MFD	"	C21	195	MFD	"	"	"	"	"	R16	220Ω	±10%	1/4W	"	"	R33	330Ω	±10%	1/4W	"
C5	100 MFD	3V	C22	195	MFD	"	"	"	"	"	R17	12K	±5%	1/4W	"	"	R34	82Ω	±10%	1/4W	"
C6	0.1 MFD	125V	C23	0.1	MFD	125V	MYLAR	"	"	"	R18	15K	±10%	1/4W	"	"	R35	27K	±10%	1/4W	"
C7	3000 MFD	125V	C24	0.1	MFD	125V	MYLAR	"	"	"	R19	390Ω	±5%	1/4W	"	"	R36	4700Ω	±10%	1/4W	"
C8	0.047 MFD	125V	C25	22	MFD	±1% WIRE TRIMMER (ADJ.)	MYLAR	"	"	"	R20	1000Ω	±10%	1/4W	"	"	"	"	"	"	"
C9	100 MFD	125V	C26	0.1	MFD	125V	MYLAR	"	"	"	R21	6800Ω	±10%	1/4W	"	"	"	"	"	"	"
C10	3-2 MFD	TON	C27	195	MFD	"	"	"	"	"	R22	4K	±16K	CARBON	POTENTIOMETER	T1	FERROCORE RAD AERIAL COILS	A3380330	A3380330	"	
C11	0.1 MFD	125V	C28	195	MFD	"	"	"	"	"	R23	470K	±10%	1/4W	"	"	T1A	OSCILLATOR COIL	A3128-39	A3128-39	"
C12	3-2 MFD	TON	C29	100	MFD	"	"	"	"	"	R24	1500Ω	±10%	1/4W	"	"	T2	1ST. FILTER	A3128-40	A3128-40	"
C13	0.047 MFD	125V	C30	2350	MFD	±2% STYROFLEX	"	"	"	"	R25	22K	±10%	1/4W	"	"	T3	2ND. FILTER	A3128-41	A3128-41	"
C14	0.01 MFD	350V	C31	100	MFD	125V	ELECTROLYTIC	"	"	"	R26	680Ω	±10%	1/4W	"	"	T4	3RD. FILTER	A3128-42	A3128-42	"
C15	195 MFD	"	C32	50	MFD	125V	"	"	"	"	R27	560Ω	±10%	1/4W	"	"	T5	INLET TRANSFORMER	A3161-76	A3161-76	"
C16	195 MFD	"	C33	3-2	MFD	TON	"	"	"	"	R28	1000Ω	±10%	1/4W	"	"	T6	OUTPUT TRANSFORMER	A3193-25	A3193-25	"
C17	47000 MFD	125V	C34	0.1	MFD	125V	MYLAR	"	"	"	R29	2200Ω	±10%	1/4W	"	"	"	WIRE WOUND (ADJ.)	"	"	"