

TECHNICAL SERVICE INFORMATION

ISSUED BY

KRIESLER AUSTRALASIA PTY. LIMITED

43 ALICE ST. NEWTOWN.

Phone: LA. 0400

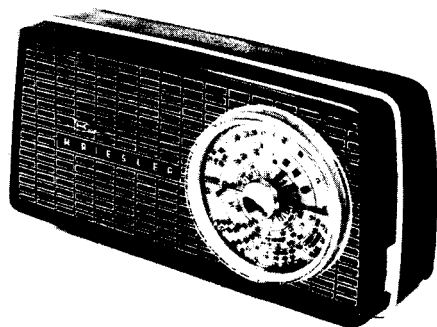
Series 'A' Radio Handbook

DESCRIPTION. Six transistor battery portable receiver for Broadcast Band reception. A socket is provided for a hearing aid type earpiece or extension speaker of 3 to 10 ohms impedance.

MODEL 41-32

TRANSISTOR PORTABLE

REVERSIBLE DIAL SCALE. The dial scale is made reversible to cater for all Australian States without undue cluttering. N.S.W. and Q'LD. are on one side of the dial with W.A., VIC., S.A. and TAS. on the other.



To reverse the dial scale:-

1. Remove knurled screw in centre of tuning knob and remove knob.
2. Release dial scale from securing tabs.
3. Reverse scale and re-insert, ensuring that the scale is correctly aligned. In the correct position, the notch in the edge of the scale will engage with the raised pip near the 7 o'clock position.
4. Replace dial knob and screw, set pointer correctly, and tighten centre screw.

NETT WEIGHT. 2 lbs. plus battery.

CHASSIS REMOVAL INSTRUCTIONS. Switch off receiver and remove tuning knob as described above. Remove cabinet back. With a suitable spintite, remove the three nuts securing the aluminium gang bracket to the front escutcheon. Release the board from the bracket on the speaker end on the receiver. The board, complete with gang, volume control, loopstick, etc. may now be lifted clear to the limit of the speaker leads.

TUNING RANGE. 525 to 1635 Kc/s. **ALIGNMENT PROCEDURE.** See circuit diagram.

TRANSISTOR COMPLEMENT.

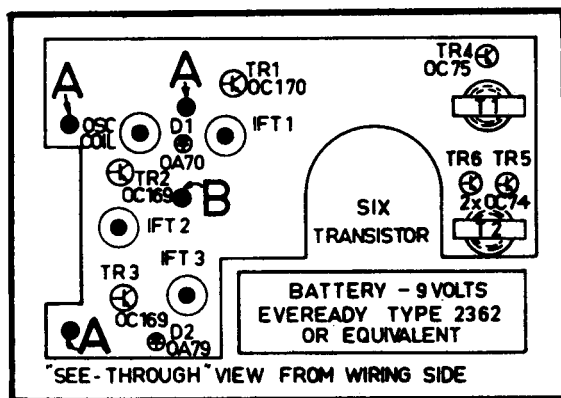
TR1	OC170	Mixer-Oscillator.
TR2	OC169	1st. I.F. Amp.
TR3	OC169	2nd. I.F. Amp.
TR4	OC75	Audio Amp.
TR5)		
TR6)	OC74	Audio Output.

GERMANIUM DIODES.

D1	OA80	A.G.C. Limiter.
D2	OA79	Detector/A.G.C.

REPLACEMENT PARTS.

Identity	Part No.
Tuning knob.....	20-2014
Volume OFF/ON knob	20-2015
Dial Scale assembly ...	90-4453
Kriesler VK badge	36-3606
Carrying strap.....	90-4451



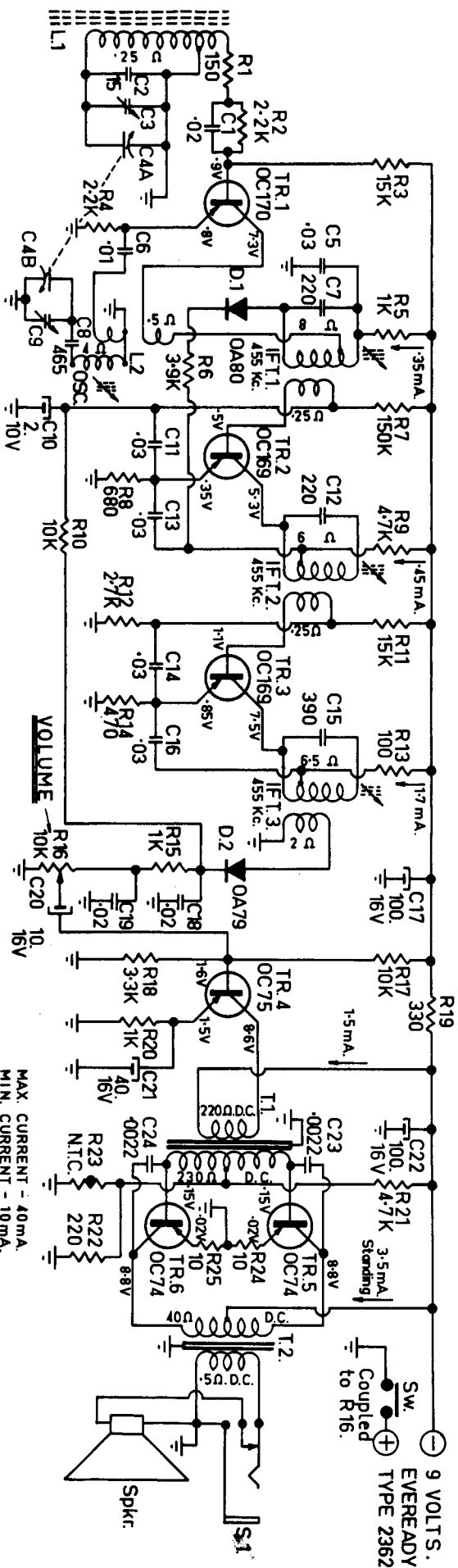
"SEE-THROUGH" VIEW FROM WIRING SIDE

Identity	Part No.
Tuning knob ret. screw...	36-2020.
Cabinet back ret. screw .	36-2030
Chassis ret. screws	$\frac{3}{8}$ " No.4 S
Cabinet front assembly ..	90-4452
Cabinet rear assembly ...	90-2041

ALIGNMENT PROCEDURE

	STEP	SIGNAL GEN. FREQUENCY.	CONNECT SIGNAL GENERATOR TO -	WITH TUNING GANG -	PROCEED AS FOLLOWS
I.F.	1.	455 Kc/s.	Base of TR1	Closed	Peak Core IFT3
	2.	" "	" "	" "	" " IFT2
	3.	" "	" "	" "	" " IFT1
	4.	-----	-----	-----	Repeat until no further gain is obtainable.
OSC.	5.	-----	-----	Closed	Set dial pointer to 'Pointer Set' (P.S.) mark at 3 o'clock on dial scale. Peak Oscillator Core.
	6.	550 Kc/s.	Radiate into Aerial	at 550 Kc/s.	Peak Oscillator Trimmer.
	7.	1.5 Mc/s.	Radiate into Aerial	at 1.5 Mc/s.	Repeat until calibration is correct at both ends of scale and at intermediate points.
	8.	-----	-----	-----	Peak Aerial Trimmer.
AERIAL	9.	1.5 Mc/s.	Radiate into Aerial	at 1.5 Mc/s.	Peak Aerial Trimmer.

- NOTES.
1. During alignment, the cores should be set to the peak which occurs with the cores nearest the printed board.
 2. The aerial coil is pre-aligned and should not require further attention unless installed as a replacement part.



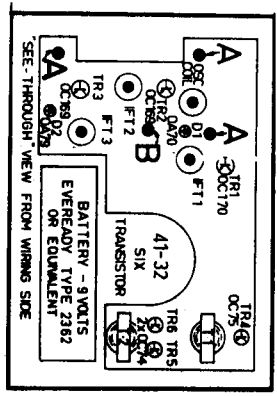
MAX. CURRENT - 40mA.
MIN. CURRENT - 10mA.

NOTES

1. VOLTAGES SHOWN ARE MEASURED IN RESPECT TO BATTERY POSITIVE WITH A 20,000Ω/V METER
2. AN EARPHONE WITH AN IMPEDANCE BETWEEN 3 AND 10Ω OR EXTENSION LOUDSPEAKER WITH A 2 TO 4Ω VOICE COIL MAY BE CONNECTED TO S1, VIA A SUITABLE PHONE JACK.

No.	DESCRIPTION	Part No.	No.	DESCRIPTION	Part No.
R1	150 ohm	"	O6	.07µf.	Ducan
R2	2.2K	"	O7	220pf.	"
R3	15K	"	O8	500V Mica NS	"
R4	2.2K	"	O9	465pf.	Phillips
R5	1K	"	O10	500V Mica SS	"
R6	3.9K	"	O11	3-30pf.	"
R7	150K	"	O12	10V Electro.	Ducan
R8	680 ohm	"	O13	220pf.	"
R9	4.7K	"	O14	500V Mica NS	"
R10	10K	"	O15	.03µf.	"
R11	10K	"	O16	390pf.	"
R12	15K	"	O17	500V Mica NS	"
R13	2.7K	"	O18	.05µf.	Phillips
R14	100 ohm	"	O19	25V Red cap ceramic	"
R15	470 ohm	"	O20	100µf.	Ducan
R16	1K	"	O21	.02µf.	"
R17	10K	"	O22	16V Electro.	Phillips
R18	3.3K	"	O23	16V Electro.	"
R19	1K	"	O24	100µf.	Ducan
R20	330 ohm	"	O25	.0022µf.	"
R21	4.7K	"	O26	400V Electro.	Phillips
R22	220 ohm	"	O27	16V Electro.	"
R23	Thermostat	B8 320 01 A/130E	O28	16V Electro.	"
R24	10 ohm	"	O29	100µf.	Ducan
R25	10 ohm	"	O30	.0022µf.	"

No.	DESCRIPTION	Part No.	No.	DESCRIPTION	Part No.
C1	.02µf.	"	L1	Loopstick assembly	"
C2	15µf.	"	L2	Recoil coil	"
C3	5-.50µf. C.W.O. ceramic	"	IFT1	1st. I.F. Transformer	"
C4	TUNING GAG.	Kristalar Ft. No. 69-4444	IFT2	2nd. I.F. Transformer	"
C5	.03µf.	"	IFT3	3rd. I.F. Transformer	"
C6	.01	"	T1	Driver Transformer	"
C7	.220	"	T2	Output Transformer	"
C8	.5	"	T3	Zapphone Jack	"
C9	.465	"	S1	Carry-assesmer	"
C10	2	"	Spkr	Loudspeaker Type 30, 3.5 ohm	"



ISSUE	CHANGE	DATE	BY	SCALE
16-4-62				

MATERIAL	QUANTITY	PROJECT QTY.	PROJECT QTY.
GAUGE			
FINISH			
PHENOLIC No.			

SIX TRANSISTOR PORTABLE **MODEL 41-32**

Work to Dimensions only. Unless otherwise specified, tolerances to be held as follows: ±1/64" on fractions; ±.005" on Decimals.

Before production is commenced 2 samples must be submitted to Drawing Office for approval.

This Drawing must be returned to **KENNELS AUSTRALASIA PTY. LTD.** 45 ALICE STREET, SYDNEY.

PARTS LIST MODEL 41-32