

TECHNICAL SERVICE INFORMATION

ISSUED BY

KRIESLER AUSTRALASIA PTY. LIMITED

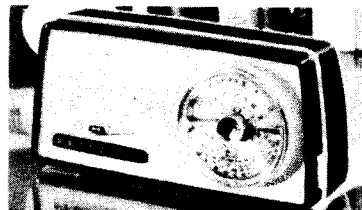
43 ALICE ST. NEWTOWN.

Phone: LA 0400

Series 'A' Radio Handbook

DESCRIPTION. Six Transistor Battery portable receiver for Broadcast Band reception. A socket for a hearing-aid type earpiece (Goldring MR13 or equivalent) or extension loudspeaker, is fitted. The reversible dial scale caters for all Australian States.

41-23 Transistor Battery Portable



REVERSIBLE DIAL SCALE. N.S.W. and QLD. are on one side of the dial scale and W.A., VIC., S.A., and TAS., are on the reverse side. To reverse Dial Scale.

1. Remove knurled screw in centre of dial cover and lift off dial cover.
2. Release dial scale from securing tabs.
3. Reverse scale and re-insert, ensuring that the scale is correctly aligned. When in the correct position, the notch in the edge of the dial scale will engage in the raised locating pip near the 7 o'clock position.
4. Replace dial cover and tighten knurled screw, making sure that when the dial cover is in the fully clockwise position, the pointer line is on pointer-set (P.S.) mark. Check calibration on a local station.

NET WEIGHT. 2 lbs. plus battery.

BATTERY. Eveready type 2362 (9V) or equivalent.

CHASSIS REMOVAL INSTRUCTIONS. Switch receiver OFF, close Tuning Gang by turning dial to P.S. mark and remove cabinet back. Disconnect battery and remove three screws marked 'A' and nut marked 'B' on the printed board layout diagram. Release board from slots in bracket on speaker end of receiver. Lift board from cabinet to the limit of the leads.

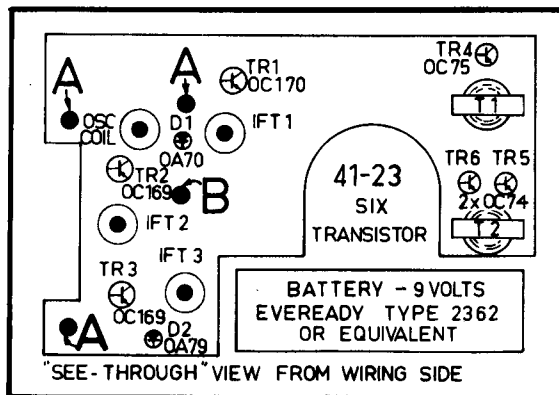
TUNING RANGE. 535 to 1650 Kc/s.

ALIGNMENT PROCEDURE. Conventional.
I.F. Frequency 455 Kc/s.

BATTERY CONSUMPTION.
Min. Volume (no signal) 10 mA.
Max. Volume 60 mA.

TRANSISTOR COMPLEMENT.

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



GERMANIUM DIODES

D1 OA80 A.G.C. Limiter

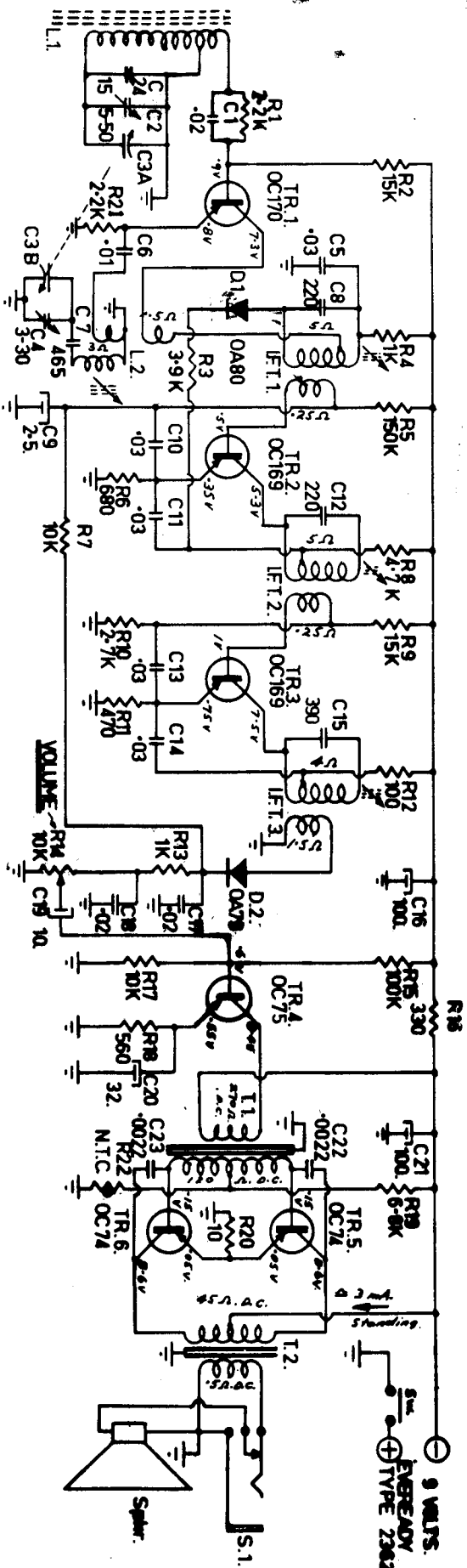
D2 OA79 Detector / A.G.C.

REPLACEMENT PARTS

Identity	Part No.	Identity	Part No.
Tuning knob.....	20-2014	Tuning knob ret. screw	36-2020
Volume OFF/ON Knob	20-2015	Cabinet Back ret. screw ...	36-2030
Dial Scale Assembly	90-2039	Chassis ret. screws	3/8" No.4 S.T.
Kriesler VK Badge	36-0557	Cabinet Front assembly	90-2038
		Cabinet Rear assembly	90-2041

IMPORTANT:

The speaker used in this receiver is fitted with a 1/16" thick cardboard pad ring. Since this dimension is critical, please specify thickness in your order if a replacement speaker is required.



NOTES

1. Voltages shown are measured in respect to battery positive with a 20000 ohm/volt meter.
2. An earphone with an impedance between 3 and 10 ohms or extension loudspeaker with a 2 to 4 ohm voice coil may be connected to S.1 via a suitable jack.

ALIGNMENT PROCEDURE

Step	Signal Gen. Frequency.	Connect Signal Generator to -	With Tuning Gang -	Proceed as follows -
1.	455 Kc/s.	Base of TR.1	Closed	Peak core IFT.3
2.	"	"	"	" IFT.2
3.	"	"	"	" IFT.1
4.	"	"	"	Repeat until no further gain is obtainable.
5.	"	"	Closed	Set dial pointer to 'Pointer-set' (P.S.) mark at 3 o'clock on dial scale.
6.	550 Kc/s.	Radiate into aerial	at 550 Kc/s.	Peak oscillator core.
7.	1500 Kc/s.	"	at 1500 Kc/s.	Peak oscillator trimmer.
8.	"	"	"	Repeat until calibration is correct at both ends of scale and intermediate points.
9.	1500 Kc/s.	Radiate into aerial.	at 1500 Kc/s.	Peak aerial trimmer.

NOTES:

1. During alignment, the core 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 adjustment unless installed as a replacement part.
3. Whilst aligning transistor receivers, it is a good procedure to 'rock' the tuning gang when adjusting the aerial trimmer.

No.	DESCRIPTION	Part No.	DESCRIPTION	Part No.
R1	2.2K	W	B.T.S. 2 10%	L.R.C.
R2	15K	"	"	"
R3	3.9K	"	2.20%	"
R4	1K	"	"	"
R5	150K	"	± 10%	"
R6	680 ohm	"	"	"
R7	10K	"	"	"
R8	4.7K	"	"	"
R9	15K	"	"	"
R10	2.7K	"	"	"
R11	470 ohm	"	"	"
R12	100 ohm	"	± 20%	"
R13	1K	"	"	"
R14	10K Potentiometer	"	C. 1 standard.	32-2034
R15	500K	"	"	"
R16	100K	"	"	"
R17	10K	"	"	"
R18	500 ohm	"	"	"
R19	1.5K	"	"	"
R20	10 ohm	"	3.1.5	"
R21	2.2K	"	B.T.S. ± 20%	"
R22	N.T.C.	"	8/8 32001A.30E	"
C1	500pF	"	33W 42000 CRT. Y	"
C2	100pF	"	"	"
C3	100pF	"	"	"
C4	100pF	"	"	"
C5	0.03uF	"	33W 45000 CRT. Y	"
C6	0.01uF	"	200 Styrofoam ± 10%	"

ISSUE	CHANGE	DATE	SIGNATURE
1	ORIGINAL		
MATERIAL	PLANNED		
GAIN	DRAWN		
FRSH	CHECKED		
Preparation No.	APPROVED		

6 TRANSISTOR PORTABLE 41-23

Work to Dimensions only. Unless otherwise specified. Tolerances to be read as: ± on Fractions, ± on Decimals.

SCALE

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

This drawing shall be returned to **EMERSON AUSTRALIA PTY. LTD.** 4 ALICE STREET, NEWTOWN.