## †ECHNICAL SERVICE INFORMATION

ISSUED BY

## KRIESLER AUSTRALASIA PTY. LIMITED

43 ALICE ST. NEWTOWN.
Phone: LA 0400

SERIES 'A' RADIO HANDBOOK

DESCRIPTION. Bight transistor battery operated portable receiver for $B / C$ reception.

WEIGHT. Packed: 7 lbs. Nett: 4 $1 / 2 \mathrm{lbs}$.
BATTERY. Eveready type 2364 ( 9 volt) or equivalent.

AERIAL. Inbuilt ferrite-rod with provision for external aerial and earth on rear of cabinet. A - Aerial. E Earth. Connecting leads are provided (On detachable base plate.).

CHASSIS REMOVAL. To gain access to the component side of the chassis, switch receiver OFF, pull off tuning
knob and remove four gold-plated screws on front of cabinet. The cabinet front, complete with loudspeaker is now removable to the limit of the speaker leads.

To remove the rear shell of the cabinet. remove the two screws marked ' X ' on the layout diagram. The chassis can now be withdrawn from the rear shell to the limit of the extension aerial and earth leads.

TUNING RANGE. $535-1650 \mathrm{Kc} / \mathrm{s}$. $\quad$ INTERMEDIATE FREQUENCY. $455 \mathrm{Kc} / \mathrm{s}$.

BATTERY CONSUMPTION. Min. Volume (no signal) ...... 12 mA.) these will vary from set to set.

TRANSISTOR COMPLEMENT.
TR. 1 OC 170 . R.F. Amplifier. $\quad$ TR. 5 OC 71. 1st. A.F. Amplifier.
TR. 2 OC 44 mixer-oscillator.
TR. 3 OC 45 ist. I.F. Amplifier.
TR. 4 OC 45 2nd. I.F.Amplifier.

TR. 6 OC 75. 2nd. A.F. Amplifier.
TR. 7 OC 74.)
TR. $B$ OC 74.) A.F. Output Push/Pull.

NOTE. In sone sets, $2 N 218$ transistors may be used in lieu of type $0 C 45$.

GERMANIUM DIODE COMPLEHENT.
D.1. OA 70 or OA 80. A.G.C. Limiter. D.2. OA 79. Detector/A.G.C.

REPLACEMENT PARTS



ALIGNMENT INSTRUCTIONS.

|  | Step. | Signal Gen. <br> Frequency - | Connect Signal Generator to - | With Tuning Gang - | Proceed as follows - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\dot{B}}{\dot{i}}$ | 1. <br> 2. <br> 3. <br> 4. <br> 5. | $455 \mathrm{Kc} / \mathrm{s} .$ | Base of TR. 2 | Closed | $\begin{aligned} & \text { Peak core IFT. } 3 \\ & " \quad " \quad \text { IFT. } 2 \end{aligned}$ |
|  | 6. <br> 7. <br> 8. <br> 9. | $550 \mathrm{Kc} / \mathrm{s}$. <br> $15500 \mathrm{Kc} / \mathrm{S}$. | Bese of TR. 2 <br> $*$ $\qquad$ | Closed <br> at $550 \mathrm{Kc} / \mathrm{s}$. <br> " $1500 \mathrm{Kc} / \mathrm{s}$. | Set dial pointer to correspond to mark on top of dial scale near ' $D$ ' of QLD. <br> Peak Oscillator core. <br> Peak oscillator trimmer. <br> Repeat until calibration is correct at both ends of scale and intermediate points. |
|  | $\begin{aligned} & 10 . \\ & 11 . \\ & 12 . \end{aligned}$ | $\begin{aligned} & 1500 \mathrm{Kc} / \mathrm{s} . \\ & 600 \mathrm{Kc} / \mathrm{s} . \end{aligned}$ | $\text { Base of TR. } 1$ | $\begin{aligned} & \text { at } 1500 \mathrm{Kc} / \mathrm{s} . \\ & " \quad 600 \mathrm{Kc} / \mathrm{s} . \end{aligned}$ | Peak R.f. trimmer. <br> Peak R.F. core. <br> Repeat until no further gain is obtainable. |
|  | 13. | $1500 \mathrm{Kc} / \mathrm{s} .$ $550 \mathrm{Kc} / \mathrm{s} .$ | Radiate into <br> Aerial. <br> Radiate into Aerial. | at $1500 \mathrm{Kc} / \mathrm{s}$. <br> " $550 \mathrm{Kc} / \mathrm{s}$. | Peak aerial trimmer. <br> Peak aerial coil by sliding <br> coil along ferrite-rod. <br> Repeat until no further <br> gain is obtainable. Re-check <br> R.F. alignment. |

NOTE. 1. During alignment, the cores should be set to the peak which occurrs with the cores nearest the printed board.
2. Whilst aligning transistor receivers, it is a good procedure to rock' the tuning gang when adjusting the Aerial and R.F. trimmers.
MODEL 41-22 LAYOUT DIAGRAM

VIEWED FROM COMPONENT SIDE

