TECHNICAL SERVICE INFORMATION

ISSUED BY

KRIESLER AUSTRALASIA PTY. LIMITED

12-30 CAWARRA ROAD, CARINGBAH. P.O. BOX 107, CARINGBAH.

TELEPHONE: 5-2044

DESCRIPTION.

Model 41-31 is a 7 transistor, 2 diode Broadcast Portable Radiogram employing printed wiring construction. It is equipped with the Kriesler Record Playing Unit Type 90-4390. This unit provides all four playing speeds and incorporates a mechanical variable speed adjustment. The pick-up is a stereophonic 'turnover' type so that both Mono or Stereo records may be played (mono sound). A socket for the connection of a car radio aerial is provided on the side of the cabinet.

MODEL No. 41-31 BATTERY OPERATED PORTABLE RADIOGRAM



DIAL SCALES.

Four dial scales are provided to cover all Australian Broadcast stations. Units are supplied fitted with the N.S.W. scale. Scales for the other States are attached to the underside of the battery compartment cover. To change dial scales, refer to the diagram on Page 4.

PICK-UP CARTRIDGE.

REPLACEMENT STYLI.

STYLUS PRESSURE.

B.S.R. Type TC8SM.

TC8RS (L.P.) and TC8G (78). 8 to 10 grams.

AERIAL INFORMATION.

The receiver is equipped with an inbuilt ferrite-rod aerial. An extension Aerial (identified by red washer) and Earth terminal is provided on the base of the cabinet. An earth connection is generally necessary when using a long-wire or extended aerial.

The 'Car Aerial' socket on the side of the cabinet is suitable for use with the Kriesler 'Tough-Rider Whip Aerial' Type 90-4751, which is fitted with the correct plug. If other than this aerial is to be used, the cable should be fitted with a Walbar BT32 plug and the total capacitance of the aerial and cable should not exceed 150 pF. The aerial trimmer may be re-peaked to favour car operation if required.

BATTERIES.

Six 1.5 volt 'D' size cells. (Eveready 1050 or equivalent). Leakproof batteries are preferred.

To replace batteries, remove the battery compartment cover by turning the metal lever (with pick-up arm clip) to the position marked 'Battery Access'.

TUNING RANGE.

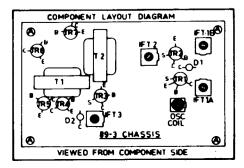
525 to 1635 Kc/s.

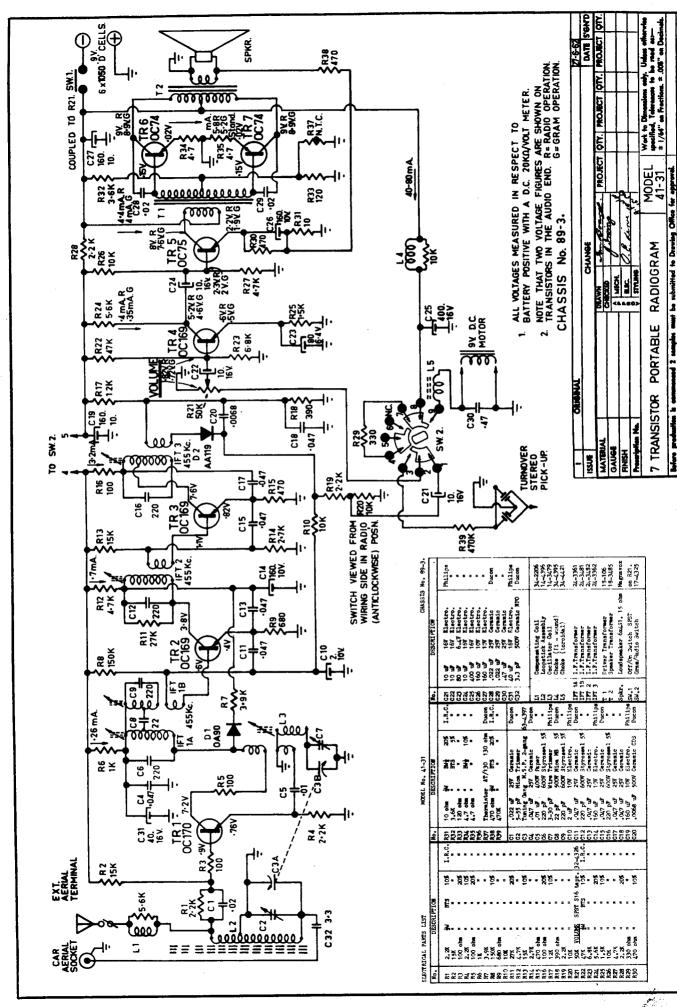
ALIGNMENT PROCEDURE.

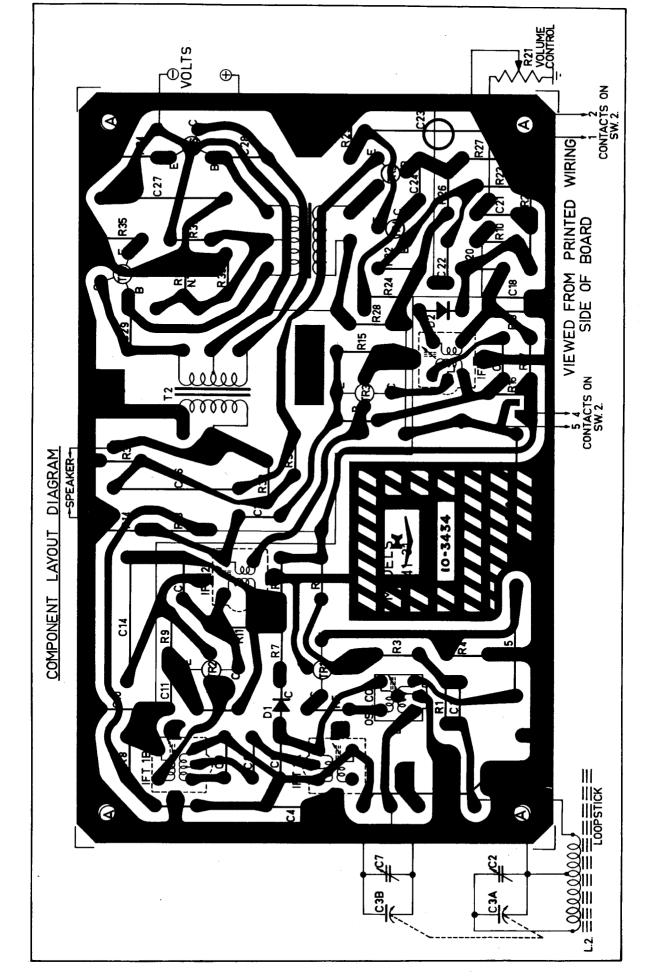
See Page 5.

CHASSIS REMOVAL.

See diagram on Page 4.







TO REMOVE CHASSIS ROTATE TURNTABLE LOOSEN REMOVE PLAYER SCREW IN RETAINING UNTIL ONE HOLE IS 10 DECK. AT THIS POINT. THE LIFT RUBBER MAT TO BRACKET. RETAINING BRACKET REVEAL ONE OF THE FOUR HOLES IN THE SCREW IS BELOW. REMOVE TURNTABLE. ALTERNATE DIAL SCALES 5 COVER AND BATTERIES. LIFT OFF TURNTABLE REMOVE 11 THIS SCREW BY PULLING ON SPINDLE REPLACE INSERT SCALE THIS WAY UP AND ROTATING. COVER AND q NSW/ SECURE P.U. TO CHANGE ARM. SCALES 1. REMOVE LENS BY LEVERING $O \bullet O$ **SWING** UP HERE. SLOT- \circ RETAINING REMOVE 2. CHANGE SCALES. BRACKET 3. REPLACE LENS. 8 THESE 5 SCREW OUT OF NSW P.K. SCREWS. SLOT 10 REMOVE SIX SCREWS FROM BASE OF CABINET 6 PULL OFF KNOBS. THE CHASSIS MAY NOW BE REMOVED. 21 TURNS(TIE ON TUNING START WITH APPROX 44" DIAL CORD. <u>(O</u> SPINDLE START P SEAL POINTER TO CORD 6

DIAL SCALE BACKING PRISM

GANG CLOSED

TUNING SPINDLE

O

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 of IFT 3.
2.	11 11	11 11 11	tt	n n lfT 2.
3.	11 11	11 11 11	11	" " IFT 1B.
4.	11 11	11 11 11	11	" " IFT 1A.
5.	11 11	Radiated	11	Adjust all I.F.'s for
				maximum gain.
6.			Closed	Set dial pointer to 'Pointer-set' (P.S.) mark on scale backing prism at low frequency end.
7.	550 Kc/s.	Base of TR 1.	at 550 Kc/s.	Peak Oscillator core.
8.	1.5 Mo/s.		at 1.5 Mc/s.	Peak Oscillator trimmer.
9.			***************************************	Repeat until the calib- ration is correct at both ends of scale and at all intermediate points.
0.	1.5 Mc/s.	Radiate into Aerial	at 1.5 Mo/s.	Peak Aerial trimmer.
11.	550 Kc/s.	Radiate into Aerial	at 550 Kc/s.	Peak Aerial coil by sliding coil along ferrite-rod.
12.				Repeat until no further gain is obtainable.

HINTS ON THE HANDLING OF THE CARRYGRAM.

The lid should not be closed when there is a record on the turntable.

After playing records, it is advisable to set the speed selector to the 'Radio' position. Not only does this lift the idler wheel from the motor pulley, but in the event of the receiver being accidentally switched on, some indication would probably be heard from the loudspeaker.

When selecting or changing motor speeds, do so with the set switched on.

The turntable is carefully balanced and runs in precision bearings of very low friction; hence, it may continue to revolve for some time after the unit is switched off but may be stopped by hand.

Observe caution when adjusting the turntable speed with the adjusting screw. Small discrepancies may be readily corrected with this adjustment, but if large discrepancies occur, it would indicate that a fault exists in the unit. Adjust only when the batteries are fresh. Adjust on '33 1/3'. '45' and '78' should then be correct. If one or both of these latter speeds is incorrect, then a fault does exist in the unit and should be corrected. Adjustment of '16 2/3' R.P.M. is separate and independent, and is internal.

*16 2/3 R.P.M. is separate and independent, and is internal.
FOR SERVICE DATA ON THE RECORD PLAYING UNIT, REFER TO THE SERVICE HANDBOOK
FOR THIS UNIT (PUBLISHED SEPARATELY).