

TECHNICAL SERVICE INFORMATION

ISSUED BY

KRIESLER AUSTRALASIA PTY. LIMITED

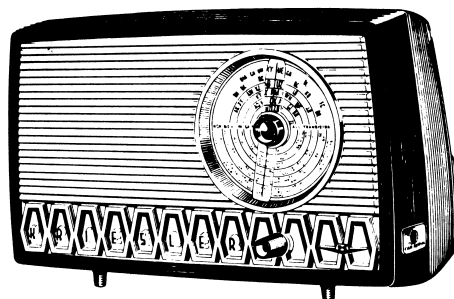
CAWARRA ROAD, CARINGBAH. P.O. BOX 107, CARINGBAH. TELEPHONE: 5-2044

Series 'A' Radio Handbook

DESCRIPTION.

Model 41-36 is a six transistor, two diode mantel receiver of printed wiring construction and is designed for Broadcast Band reception. The moulded plastic cabinet is fitted with a fold-away carrying handle which enables the receiver to be used as a portable. The large circular 'Magnavision' dial scale caters for all Australian Broadcast stations. A socket is provided for the connection of a car radio aerial.

MODEL 41-36 TRANSISTOR MANTEL RECEIVER



AERIAL AND EARTH. CAR AERIAL FACILITY.

Inbuilt ferrite-rod with provision for external aerial and earth (terminals on rear of cabinet). To obtain the full benefit of an external aerial, an earth should also be connected. When using the receiver with a car aerial, ensure that the shielded cable is grounded on the car body. The total capacitance of the aerial and cable should not exceed 150 pF. If the receiver is to be used frequently in the car, it may be advisable to peak the aerial trimmer C3 with the car aerial connected. This will result in improved performance as a car radio but will lower the performance as a portable.

BATTERY TYPE AND ACCESS.

Eveready Type 286 (9 volt) or equivalent. Type 276-P may also be used but with a shorter life expectancy. Access to the battery may be obtained by removing the external aerial and earth terminal screws and detaching the cabinet back.

CHASSIS REMOVAL INSTRUCTIONS.

After removing the cabinet back, refer to the instructions on the label affixed to the inside of the cabinet back.

DIMENSIONS.

Height $6\frac{3}{4}$ " , Width $10\frac{3}{4}$ " , Depth $4\frac{1}{2}$ " .

NETT WEIGHT.

3 lbs 2 oz plus battery (1 lb 12 oz.)

TUNING RANGE.

525 to 1635 Kc/s.

INTERMEDIATE FREQUENCY.

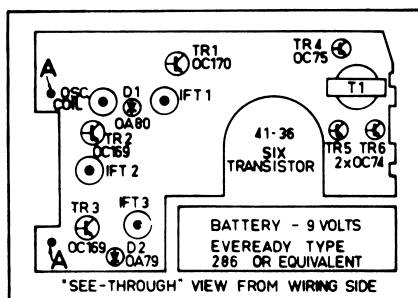
455 Kc/s.

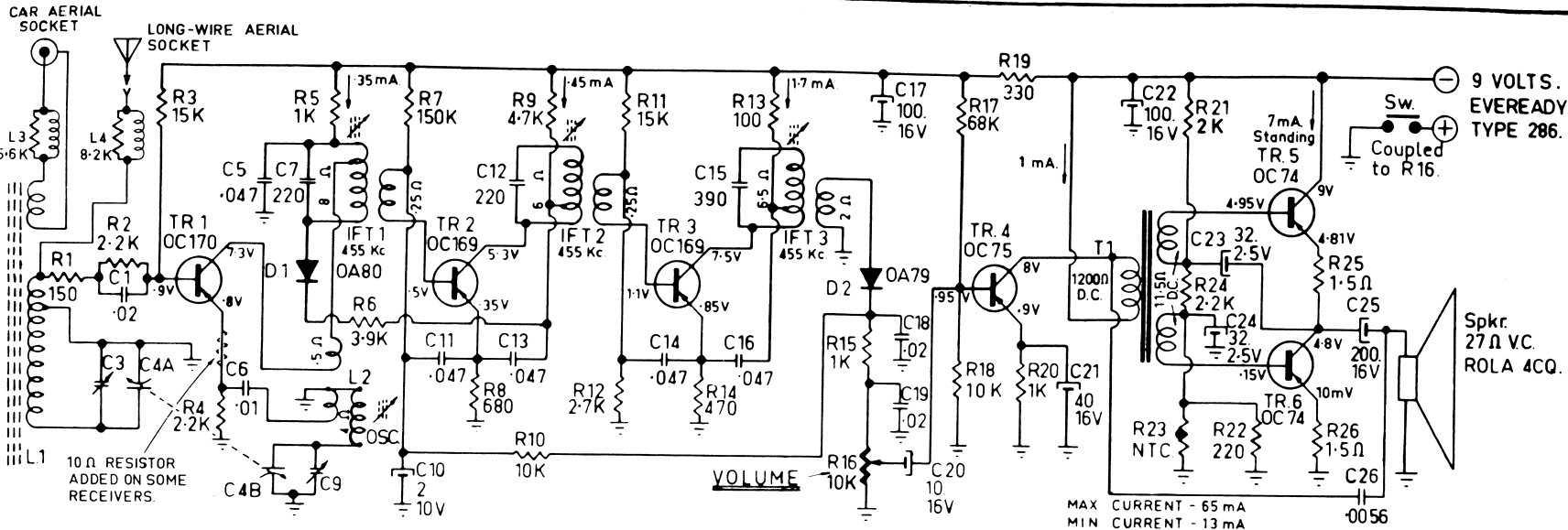
ALIGNMENT PROCEDURE.

Refer Circuit Diagram.

BATTERY CONSUMPTION.

Min. Volume (no signal).. 13mA.
Max. Volume 65mA.





ELECTRICAL PARTS LIST. MODEL No. 41-36. CHASSIS No. 89-13.

No.	DESCRIPTION		No.	DESCRIPTION	
R1	150 ohm $\frac{1}{2}W$ BTS	I.R.C.	C6	.01 uF 400V Paper	Ducon
R2	2.2K " " " "		C7	220 pF 500V Mica MS	"
R3	15K " " " "		C8	" " " "	"
R4	2.2K " " " "		C9	Trimmer on Gang.	"
R5	1K " " " "		C10	2 uF 10V Electro	Philips
R6	3.9K " " " "		C11	.047 uF 25V Ceramic	Ducon
R7	150K " " " "		C12	220 pF 500V Mica MS	"
R8	680 ohm " " " "		C13	.047 uF 25V Ceramic	"
R9	4.7K " " " "		C14	.047 uF 25V Ceramic	"
R10	10K " " " "		C15	390 pF 500V Mica MS	"
R11	15K " " " "		C16	.047 uF 25V Ceramic	"
R12	2.7K " " " "		C17	100 uF 16V Electro	Philips
R13	100 ohm " " " "		C18	.022 uF 25V Ceramic	Ducon
R14	470 ohm " " " "		C19	.022 uF 25V Ceramic	"
R15	1K " " " "		C20	10 uF 16V Electro	Philips
R16	1 OK <u>VOLUME</u> S25 taper		C21	40 uF 16V Electro	"
R17	68K $\frac{1}{2}W$ BTS		C22	100 uF 16V Electro	"
R18	10K " " " "		C23	32 uF 2.5V Electro	"
R19	330 ohm " " " "		C24	32 uF 2.5V Electro	"
R20	1K " " " "		C25	200 uF 16V Electro	"
R21	2K " " " "		C26	.0056 uF 400V Paper	Ducon
R22	220 ohm " " " "		L1	Loostick Assembly	14-4659
R23	Thermistor Type AT/13		L2	Oscillator Coil	14-4660
R24	2.2K $\frac{1}{2}W$ BTS		L3	Compensating Coil	34-2206
R25	1.5 ohm " $BW\frac{1}{2}$		L4	Compensating Coil	34-3648
R26	1.5 ohm " " "		IFT1	I.F. Transformer	24-2153
C1	.022 uF 25V Ceramic	Ducon	IFT2	I.F. Transformer	24-2154
C2	Trimmer on Gang.		IFT3	I.F. Transformer	24-2155
C3	Tuning Gang, Type K2XT	M.S.P.	T1	Driver Transformer	18-4671
C4	.047 uF 25V Ceramic	Ducon	Spkr	Loudspeaker 4CQ, 27 phm	Rola.
			S1	Car Aerial Socket A174	Walbar.

NOTES

1. VOLTAGES SHOWN ARE MEASURED IN RESPECT TO BATTERY POSITIVE WITH A 20,000 Ω/V METER

ALIGNMENT PROCEDURE.

STEP	SIGNAL GEN. FREQUENCY.	CONNECT SIGNAL GENERATOR TO -	WITH TUNING GANG	PROCEED AS FOLLOWS -
I.F.	1. 455 Kc/s.	Base of TR 1	Closed	Peak core of IFT 3.
	2. " " "	" " "	"	" " IFT 2.
	3. " " "	" " "	"	" " IFT 1.
	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 the dial scale.
	6. 550 Kc/s.	Radiate into Aerial	at 550 Kc/s.	Peak Oscillator Core.
	7. 1.5 Mc/s.	Radiate into Aerial	at 1.5 Mc/s.	Peak Oscillator Trimmer.
	8. ---	---	---	Repeat until calibration is correct at both ends of scale and at intermediate points.
AERIAL	9. 550 Kc/s.	Radiate into Aerial	at 550 Kc/s.	Peak aerial coil by sliding coil along loostick.
	10. 1.5 Mc/s.	Radiate into Aerial	at 1.5 Mc/s.	Peak Aerial Trimmer.

ORIGINAL		CHANGE		DATE	S'GND
ISSUE	14-9-1962	DRAWN		PROJECT QTY.	PROJECT QTY.
MATERIAL		CHECKED	<i>[Signature]</i>	PROJECT QTY.	PROJECT QTY.
GAUGE		MECH.			
FINISH		ELEC			
Prescription No.		STYLING			

SIX TRANSISTOR B/C MANTEL MODEL 41-36

Work to Dimensions only. Unless otherwise specified, Tolerances to be read as: $\pm 1/64"$ on Fractions. $\pm .005"$ on Decimals.

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

This Drawing must be returned to KRIBLER AUSTRALASIA PTY. LTD. 43 ALICE STREET, NEWTOWN.

SCALE ~