

# TECHNICAL SERVICE INFORMATION

ISSUED BY

## KRIESLER AUSTRALASIA PTY. LTD.

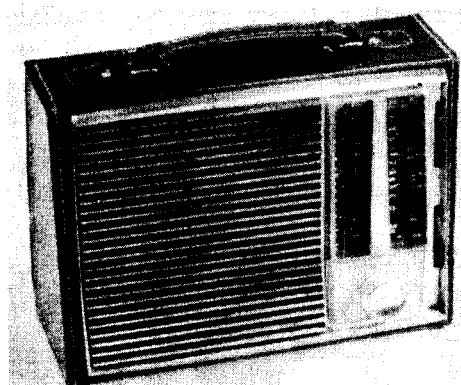
43 ALICE ST. NEWTOWN. Phone: LA 0400

### Series 'A' Radio Handbook.

#### DESCRIPTION.

Model 41-27 is a seven transistor, two diode, Broadcast Band, battery-operated portable receiver housed in a leather cabinet with a chrome-plated diecast frontpiece. The large vertical dial scale caters for all Australian stations. A dial light (switched on by pressing the tuning knob) is provided and this may be used to check the condition of the battery. (see notes on Page 4).

#### MODEL 41-27 TRANSISTOR PORTABLE RECEIVER



#### NETT WEIGHT.

6 lbs. 4 ozs. plus battery.

#### BATTERY REPLACEMENT.

Switch off receiver. Loosen two captive extension Aerial and Earth Terminal screws at the rear of the cabinet until the lower flap of the rear cover can be raised. Lift out battery and disconnect.

#### BATTERY TYPES.

Eveready Type 286 (9 volt) or equivalent. Types 2761 or 276-P may also be used but with a shorter life expectancy.

#### BATTERY CONSUMPTION.

Min. Volume ( no signal ) ..... 17 mA.  
Max. Volume ..... 250 mA.

#### AERIALS.

Inbuilt ferrite-rod with coupling winding for extension Aerial and Earth, and capacitive coupling to a socket for a Car Aerial. Note that to obtain the full advantage of an extension Aerial, an Earth should also be connected.

#### TUNING RANGE.

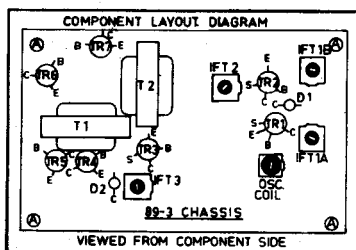
535 to 1650 Kc/s.

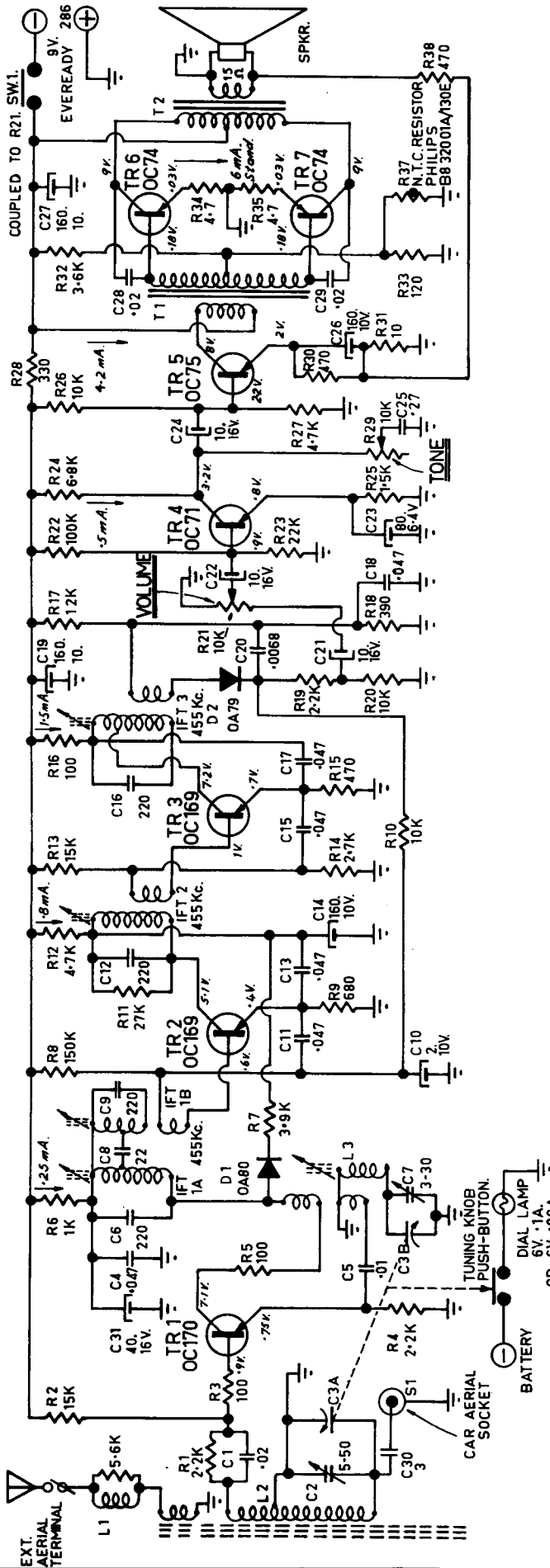
#### ALIGNMENT PROCEDURE.

See Page 4.

#### CHASSIS REMOVAL DETAILS.

Pull off Tuning knob. Loosen the three captive screws on back of cabinet and raise back. Loosen the four captive brass screws securing chassis mounting brackets to diecast frontpiece. Do not completely remove these screws. Chassis may now be removed to the limit of the speaker and Car Aerial socket leads. Reverse this procedure to re-assemble.





PARTS LIST

Part No.	DESCRIPTION	Part No.	DESCRIPTION	Part No.	DESCRIPTION
R1	2.2K	R29	10K	TR6	OC74
R2	15K	R30	470ohm	TR7	OC74
R3	100ohm	R31	10 ohm	TR5	OC75
R4	2.2K	R32	3.6K	TR4	OC71
R5	100ohm	R33	120ohm	TR3	OC169
R6	1K	R34	120ohm	TR2	OC169
R7	100 ohm	R35	4.7ohm	TR1	OC170
R8	150K	R36	1.5K	TR	
R9	150K	R37	1.5K	TR	
R10	10K	R38	470ohm	TR	
R11	27K	C1	.02uf	C1	40.0
R12	4.7K	C2	.01uf	C2	220
R13	15K	C3	.01uf	C3	220
R14	15K	C4	.01uf	C4	220
R15	2.2K	C5	.01uf	C5	220
R16	100	C6	.01uf	C6	220
R17	12K	C7	.01uf	C7	220
R18	390	C8	.01uf	C8	220
R19	10K	C9	.01uf	C9	220
R20	10K	C10	10V	C10	10V
R21	10K	C11	.047	C11	.047
R22	100K	C12	220	C12	220
R23	6.8K	C13	.047	C13	.047
R24	6.8K	C14	10V	C14	10V
R25	15K	C15	.047	C15	.047
R26	10K	C16	220	C16	220
R27	4.7K	C17	.047	C17	.047
R28	330	C18	390	C18	390
R29	10K	C19	16V	C19	16V
R30	470	C20	.0068	C20	.0068
R31	10V	C21	10V	C21	10V
R32	3.6K	C22	10	C22	10
R33	120	C23	80V	C23	80V
R34	120ohm	C24	10V	C24	10V
R35	4.7ohm	C25	10K	C25	10K
R36	1.5K	C26	.02	C26	.02
R37	1.5K	C27	10	C27	10
R38	470ohm	C28	.02	C28	.02
C1	.02uf	IFT1	455Kc.	IFT1	455Kc.
C2	.01uf	IFT2	455Kc.	IFT2	455Kc.
C3	.01uf	IFT3	455Kc.	IFT3	455Kc.
C4	.01uf	IFT4	455Kc.	IFT4	455Kc.
C5	.01uf	IFT5	455Kc.	IFT5	455Kc.
C6	.01uf	IFT6	455Kc.	IFT6	455Kc.
C7	.01uf	IFT7	455Kc.	IFT7	455Kc.
C8	.01uf	IFT8	455Kc.	IFT8	455Kc.
C9	.01uf	IFT9	455Kc.	IFT9	455Kc.
C10	10V	IFT10	455Kc.	IFT10	455Kc.
C11	.047	IFT11	455Kc.	IFT11	455Kc.
C12	220	IFT12	455Kc.	IFT12	455Kc.
C13	.047	IFT13	455Kc.	IFT13	455Kc.
C14	10V	IFT14	455Kc.	IFT14	455Kc.
C15	.047	IFT15	455Kc.	IFT15	455Kc.
C16	220	IFT16	455Kc.	IFT16	455Kc.
C17	.047	IFT17	455Kc.	IFT17	455Kc.
C18	390	IFT18	455Kc.	IFT18	455Kc.
C19	16V	IFT19	455Kc.	IFT19	455Kc.
C20	.0068	IFT20	455Kc.	IFT20	455Kc.
C21	10V	IFT21	455Kc.	IFT21	455Kc.
C22	10	IFT22	455Kc.	IFT22	455Kc.
C23	80V	IFT23	455Kc.	IFT23	455Kc.
C24	10V	IFT24	455Kc.	IFT24	455Kc.
C25	10K	IFT25	455Kc.	IFT25	455Kc.
C26	.02	IFT26	455Kc.	IFT26	455Kc.
C27	10	IFT27	455Kc.	IFT27	455Kc.
C28	.02	IFT28	455Kc.	IFT28	455Kc.
D1	0A80	IFT29	455Kc.	IFT29	455Kc.
D2	455Kc.	IFT30	455Kc.	IFT30	455Kc.
L1	5.6K	IFT31	455Kc.	IFT31	455Kc.
L2	5.50	IFT32	455Kc.	IFT32	455Kc.
L3	3-30	IFT33	455Kc.	IFT33	455Kc.
S1	3	IFT34	455Kc.	IFT34	455Kc.
S2	3	IFT35	455Kc.	IFT35	455Kc.
S3	3	IFT36	455Kc.	IFT36	455Kc.
S4	3	IFT37	455Kc.	IFT37	455Kc.
S5	3	IFT38	455Kc.	IFT38	455Kc.
S6	3	IFT39	455Kc.	IFT39	455Kc.
S7	3	IFT40	455Kc.	IFT40	455Kc.
S8	3	IFT41	455Kc.	IFT41	455Kc.
S9	3	IFT42	455Kc.	IFT42	455Kc.
S10	3	IFT43	455Kc.	IFT43	455Kc.
S11	3	IFT44	455Kc.	IFT44	455Kc.
S12	3	IFT45	455Kc.	IFT45	455Kc.
S13	3	IFT46	455Kc.	IFT46	455Kc.
S14	3	IFT47	455Kc.	IFT47	455Kc.
S15	3	IFT48	455Kc.	IFT48	455Kc.
S16	3	IFT49	455Kc.	IFT49	455Kc.
S17	3	IFT50	455Kc.	IFT50	455Kc.
S18	3	IFT51	455Kc.	IFT51	455Kc.
S19	3	IFT52	455Kc.	IFT52	455Kc.
S20	3	IFT53	455Kc.	IFT53	455Kc.
S21	3	IFT54	455Kc.	IFT54	455Kc.
S22	3	IFT55	455Kc.	IFT55	455Kc.
S23	3	IFT56	455Kc.	IFT56	455Kc.
S24	3	IFT57	455Kc.	IFT57	455Kc.
S25	3	IFT58	455Kc.	IFT58	455Kc.
S26	3	IFT59	455Kc.	IFT59	455Kc.
S27	3	IFT60	455Kc.	IFT60	455Kc.
S28	3	IFT61	455Kc.	IFT61	455Kc.

CHASSIS No. 89-3.

MODEL No. 41-27

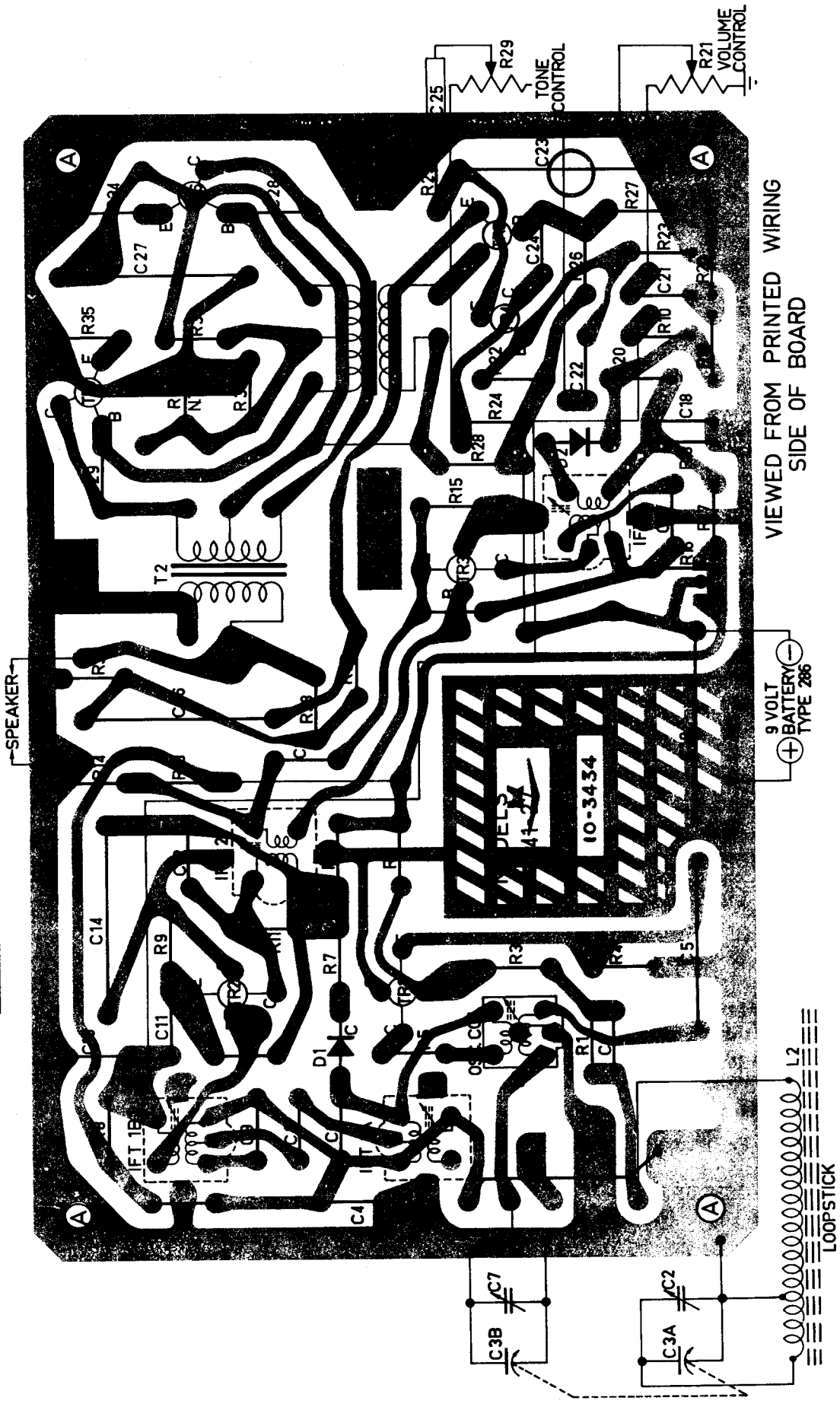
ALL VOLTAGES MEASURED IN RESPECT TO BATTERY POSITIVE WITH A D.C. 20KΩ/VOLT METER.

CHASSIS No. 89-3.

ISSUE	CHANGE	DATE	PROJECT	QTY.
1	ORIGINAL	27-6-61		
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7 TRANSISTOR PORTABLE  
 MODEL 41-27  
 Unless otherwise specified, tolerances to be read as ± 1/4% on Fractions, ± .008" on Decimals.  
 Work to Dimensions only. Unless otherwise specified, tolerances to be read as ± 1/4% on Fractions, ± .008" on Decimals.  
 Before production is commenced 3 samples must be submitted to Design Office for approval.

COMPONENT LAYOUT DIAGRAM



VIEWED FROM PRINTED WIRING SIDE OF BOARD

9 VOLT BATTERY (TYPE 286)

LOOP-STICK

SPEAKER

29  
R29  
TONE CONTROL

21  
R21  
VOLUME CONTROL

DELTA  
41-3M  
10-3434

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A

A

A

## 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.	" "	" " "	"	" " " 2.
3.	" "	" " "	"	" " IFT 1B.
4.	" "	" " "	"	" " IFT 1A.
5.	-----	-----	-----	Repeat until no further gain is obtainable.
6.	-----	-----	Closed	Set dial pointer to 'point-set' (P.S.) mark on scale at L.F. end.
7.	550 Kc/s.	Base of TR 1.	at 550Kc/s.	Peak Oscillator core.
8.	1.5 Mc/s.	" " "	at 1.5Mc/s.	Peak Oscillator trimmer.
9.	-----	-----	-----	Repeat until the calibration is correct at both ends of scale and at intermediate points.
10.	1.5 Mc/s.	Radiate into Aerial	at 1.5Mc/s.	Peak Aerial trimmer.
11.	550 Kc/s.	Radiate into Aerial	at 550Kc/s.	Peak Aerial Coil by sliding coil along ferrite-rod.
12.	-----	-----	-----	Repeat until no further gain is obtainable.

NOTE. Whilst aligning the aerial trimmer it is a good procedure to 'rock' the tuning gang.

## DIAL LAMP / BATTERY CHECK.

The dial lamp may be switched on by pressing in the Tuning knob.

The additional load placed on the battery when the dial lamp is switched on may be used to provide a convenient check on the battery condition. To run a check on the battery by this means, operate the receiver at normal listening volume and then switch on the dial lamp. A slight drop in volume indicates that the battery is in good condition. A considerable drop in volume would indicate that the battery is nearly discharged. If the set stops operating completely but resumes when the dial lamp is switched off, the battery is discharged and should be replaced.