TECHNICAL SERVICE INFORMATION

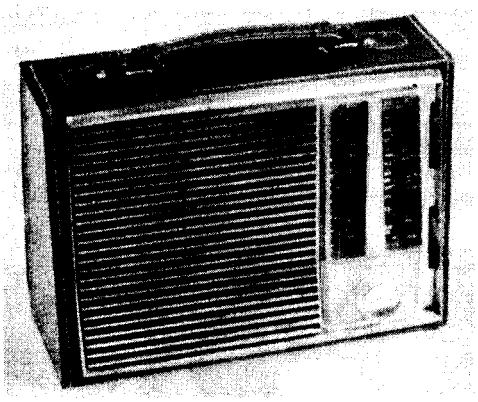
ISSUED BY

KRIESLER AUSTRALASIA PTY. LTD.

43 ALICE ST. NEWTOWN. Phone: LA 0400

Series 'A' Radio Handbook.

MODEL 41-27 TRANSISTOR PORTABLE RECEIVER



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).

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.

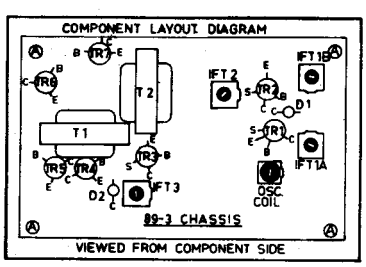
Inbuilt ferrite-rod with coupling winding for extension Aerial and Earth, and capacitive coupling to a socket for a Car Aerial. Note that to obtain the full advantage of an extension Aerial, an Earth should also be connected.

TUNING RANGE.

535 to 1650 Kc/s.

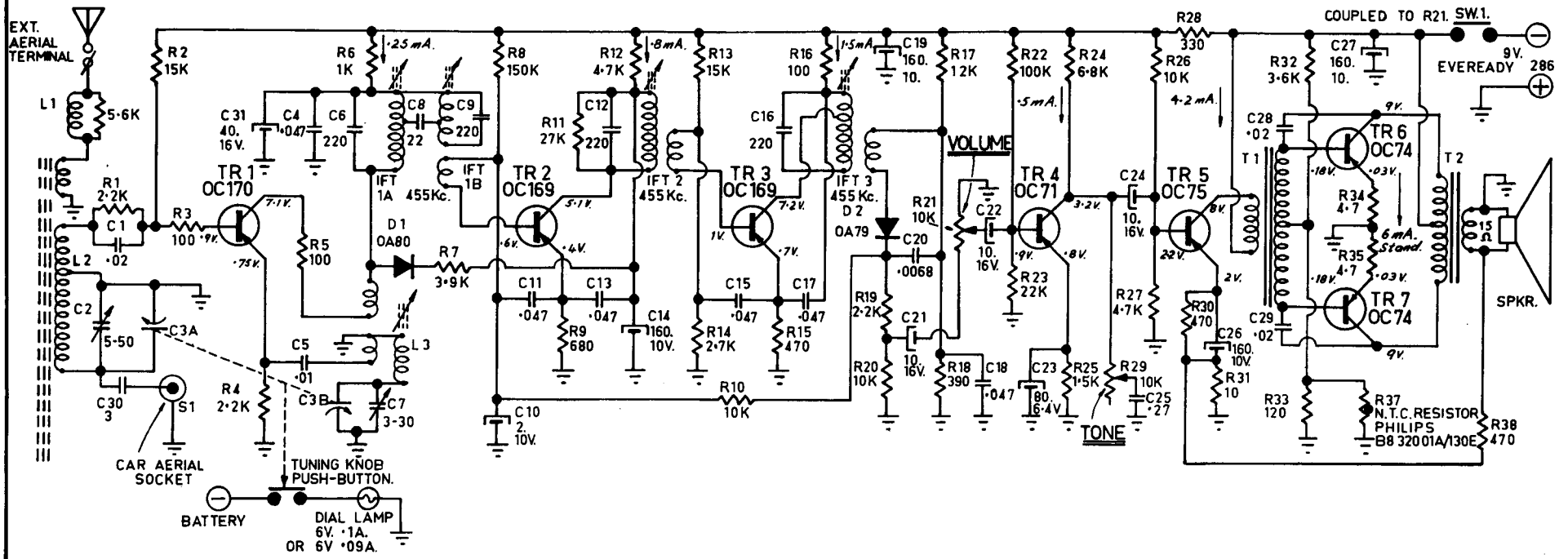
ALIGNMENT PROCEDURE.

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 — MODEL No. 41-27 — CHASSIS No. 89-3.

No.	DESCRIPTION	Part No.
R1	2.2K ¼W BTS 10%	I.R.C.
R2	15K " " "	"
R3	100ohm " " 20%	"
R4	2.2K " " 10%	"
R5	100ohm " " 20%	"
R6	1K " " "	"
R7	3.9K " " "	"
R8	150K " " 10%	"
R9	680ohm " " "	"
R10	10K " " "	"
R11	27K " " 20%	"
R12	4.7K " " "	"
R13	15K " " 10%	"
R14	2.7K " " "	"
R15	470ohm " " "	"
R16	100ohm " " 20%	"
R17	12K " " 10%	"
R18	390ohm " " "	"
R19	2.2K " " "	"
R20	10K " " "	"
R21	10K VOLUME Q type.CX tapr.	"
R22	100K ¼W BTS 10%	I.R.C.
R23	22K " " "	"
R24	6.8K " " 20%	"
R25	1.5K " " 10%	"
R26	10K " " "	"
R27	4.7K " " "	"
R28	330ohm " " 20%	"

No.	DESCRIPTION	Part No.
R29	10K TONE and OFF/ON switch	Ducon
R30	470ohm ¼W BTS 10%	I.R.C.
R31	10 ohm " BW½ 20%	"
R32	3.6K " BTS 5%	"
R33	120ohm " " "	"
R34	4.7ohm " BW½ 10%	"
R35	4.7ohm " " "	"
R36		
R37	Thermistor B8 320 01 A/130E	Philips
R38	470ohm ¼W BTS 20%	I.R.C.
R39		
C1	.022uF. 33V +80-25% Redcap	Ducon
C2	3-30pF. Air trimmer.	Philips
C3	Tuning Gang D796 2-gang.	M.S.P.
C4	.047uF. 33V +80-25% Redcap	Ducon
C5	.01uF. 400V 20% Paper	"
C6	220pF. 600V 5% Styroseal	"
C7	3-30pF. Wire trimmer	Philips
C8	22pF. 500V 5% Mica MS	Ducon
C9	220pF. 600V 5% Styroseal	"
C10	2uF. 10V +50-10% Electro	Philips
C11	.047uF. 33V +80-25% Redcap	Ducon
C12	220pF. 600V 5% Styroseal	"
C13	.047uF. 33V +80-25% Redcap	"
C14	160uF. 10V +50-10% Electro	Philips
C15	.047uF. 33V +80-25% Redcap	Ducon
C16	220pF. 600V 5% Styroseal	"

No.	DESCRIPTION	Part No.
C17	.047uF. 33V +80-25% Redcap	Ducon
C18	.047uF. 33V +80-25% Redcap	"
C19	160uF. 10V +50-10% Electro	Philips
C20	.0068uF. 500V Ceramic CDS	Ducon
C21	10uF. 16V +50-10% Electro	Philips
C22	10uF. 16V +50-10% Electro	"
C23	80uF. 6.4V +50-10% Electro	"
C24	10uF. 16V +50-10% Electro	"
C25	.22uF. 100V 20% Redcap	Ducon
C26	160uF. 10V +50-10% Electro	Philips
C27	160uF. 10V +50-10% Electro	"
C28	.047uF. 33V +80-25% Redcap	Ducon
C29	.047uF. 33V +80-25% Redcap	"
C30	3 nF. 500V ~1pF. Mica MS	"
C31	40uF. 16V +50-10% Electro	Philips
L1	Compensating Coil.	Kriesler 34-2206
L2	Loopstick Assy.	Kriesler 14-3744
L3	Oscillator Coil.	Kriesler 14-3479
IFT1A	I.F.Transformer.	Kriesler 24-3361
IFT1B	I.F.Transformer.	Kriesler 24-3481
IFT2	I.F.Transformer.	Kriesler 24-3482
IFT3	I.F.Transformer.	Kriesler 24-3362
T1	Driver Trans. 1.3 to 1+1. Ra	18-106
T2	Speaker Trans.200 to 15ohm.	18-3485
S1	Car Aerial Socket.Carr Fast.	733-23-4
Spkr.	Loudspeaker. 6 H. F8 Elcage.	Rola
VOLUME CONTROL. CX taper.		Kriesler 32-3464
TONE CONTROL. E taper.		Kriesler 32-3465

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

CHASSIS No. 89-3.

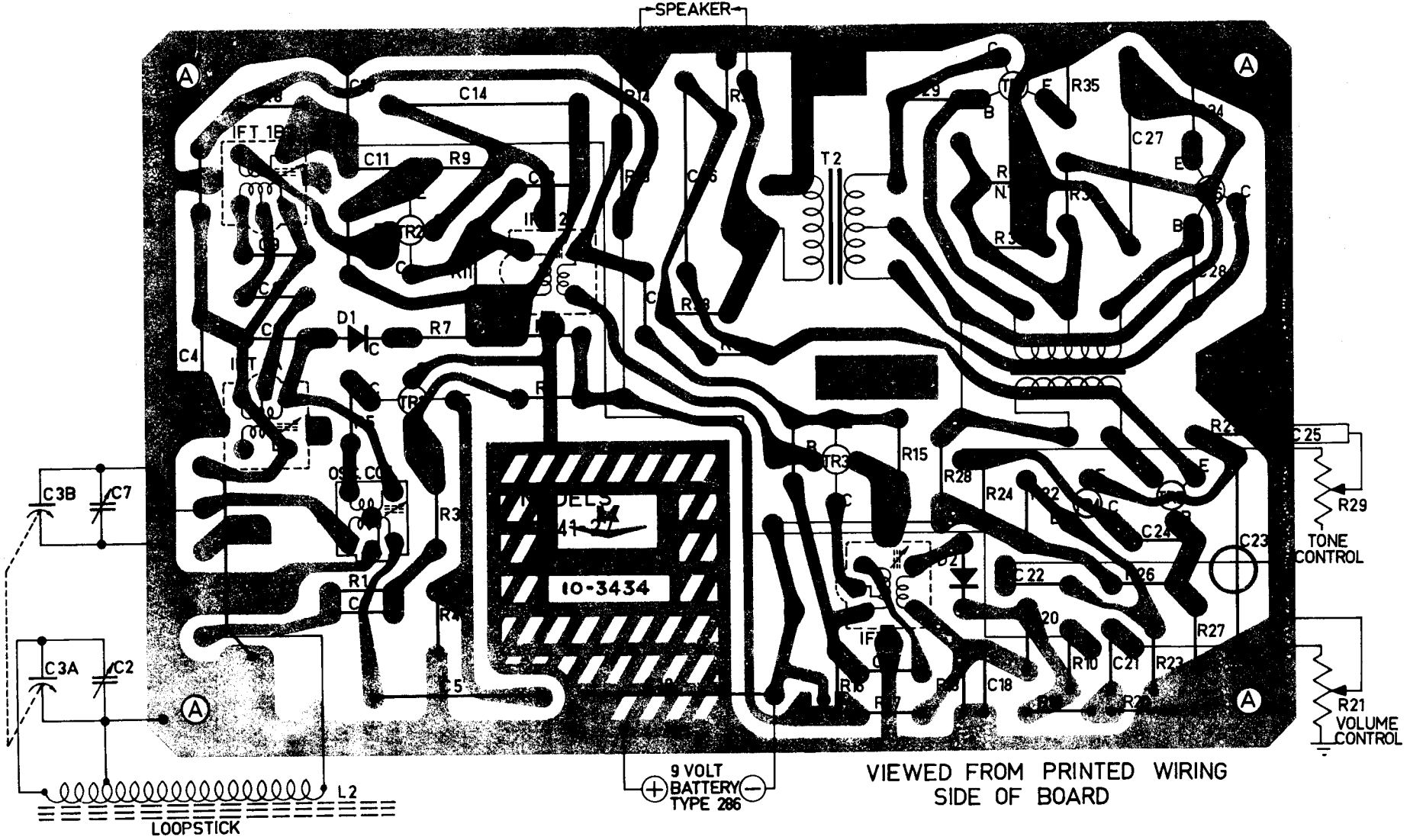
I	ORIGINAL							27-6-61	
ISSUE	CHANGE							DATE	S'GN'D
MATERIAL		DRAWN		PROJECT	QTY.	PROJECT	QTY.	PROJECT	QTY.
GAUGE		CHECKED							
FINISH		APPROV	MECH.						
Prescription No.			ELEC.						
			STYLING						

7 TRANSISTOR PORTABLE — MODEL 41-27.

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

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

COMPONENT LAYOUT DIAGRAM



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.