

# TECHNICAL SERVICE INFORMATION

ISSUED BY

## KRIESLER AUSTRALASIA PTY. LIMITED

43 ALICE ST. NEWTOWN.

Phone: LA. 0400

Series 'A' Radio Handbook.

### MODEL 41-29 TRANSISTOR MANTEL RECEIVER.

#### DESCRIPTION.

Model 41-29 is a seven transistor, two diode, Broadcast Band, battery-operated all transistor mantel receiver housed in a moulded plastic cabinet. The large horizontal dial scale caters for all Australian Broadcast stations. Dial lights (switched on by pressing the button on the left-hand side of the cabinet) are provided and these may be used to check the condition of the battery. (See notes at bottom of Page 4).



#### NETT WEIGHT

5 lbs. 10 oz. plus battery (1 lb. 10 oz.)

#### DIMENSIONS.

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

#### BATTERY REPLACEMENT.

Switch off receiver. Remove the two extension aerial and earth terminal screws at the rear of the cabinet and remove rear cover. Lift out battery and disconnect.

#### BATTERY TYPES.

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

#### BATTERY CONSUMPTION.

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

Max. Volume ..... 250 mA.

#### AERIAL.

Inbuilt ferrite-rod with provision for extension aerial and earth. Note that to obtain the full benefit of an extension aerial, an earth should also be connected.

#### TUNING RANGE.

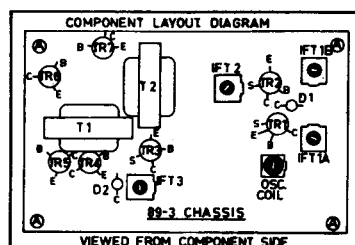
525 to 1635 Kc/s.

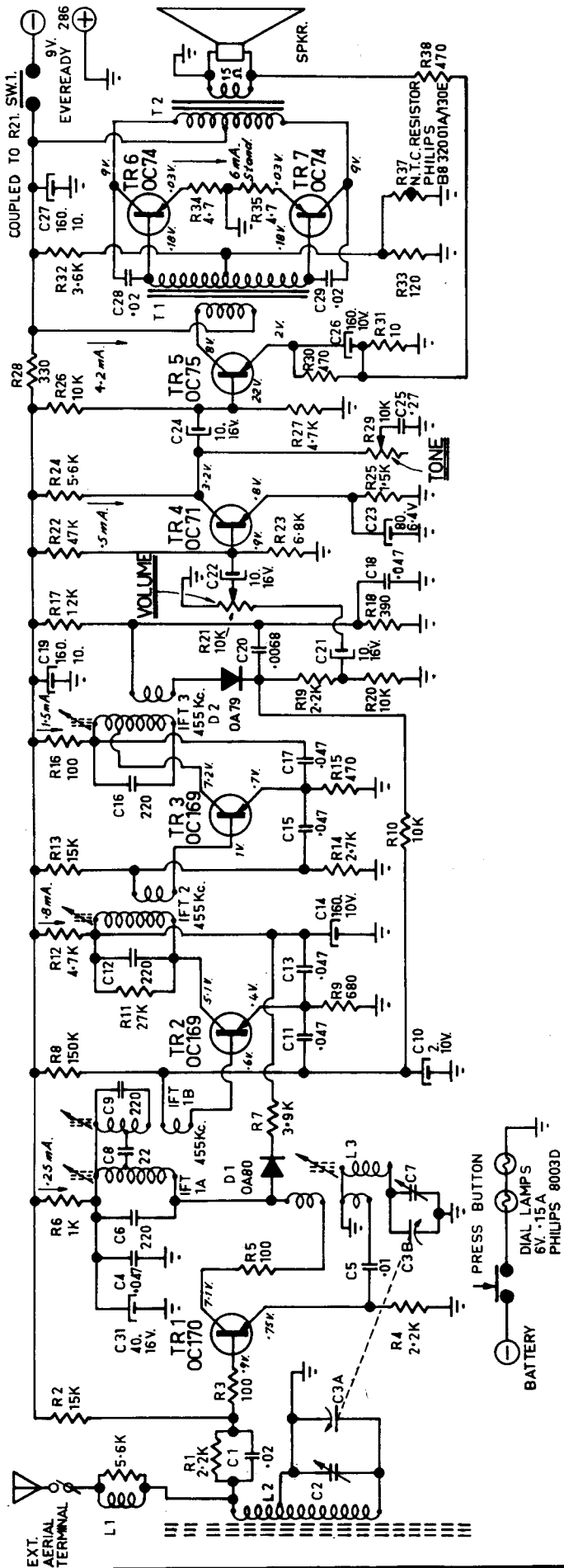
#### ALIGNMENT PROCEDURE.

See Page 4.

#### CHASSIS REMOVAL.

Switch off receiver. Remove two extension aerial and earth terminal screws and remove rear cover. Remove knobs and four screws on front of cabinet. Chassis may now be removed. Reverse this procedure to re-assemble.





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

CHASSIS No. 89-3.

Part No.	DESCRIPTION	Part No.	DESCRIPTION	Part No.	DESCRIPTION
R1	2.2K	C1	0.02	R28	330
R2	15K	C2	0.01	R26	10K
R3	100	C3	40	R24	5.6K
R4	2.2K	C4	0.047	R22	47K
R5	100	C5	0.01	R20	10K
R6	1K	C6	220	R18	390
R7	3.9K	C7	220	R16	100
R8	150K	C8	22	R14	2.7K
R9	680	C9	220	R12	4.7K
R10	10K	C10	10V	R10	10K
R11	27K	C11	0.47	R8	15K
R12	4.7K	C12	220	R6	15K
R13	15K	C13	0.47	R4	2.2K
R14	2.7K	C14	10V	R2	15K
R15	470	C15	0.47	R1	2.2K
R16	100	C16	220	R3	100
R17	12K	C17	0.47	R5	100
R18	390	C18	0.47	R7	3.9K
R19	2.2K	C19	10	R9	680
R20	10K	C20	0.0068	R11	27K
R21	10K	C21	10	R12	4.7K
R22	47K	C22	10	R13	15K
R23	6.8K	C23	0.47	R14	2.7K
R24	5.6K	C24	10	R15	470
R25	15K	C25	10	R16	100
R26	10K	C26	0.2	R17	12K
R27	4.7K	C27	10	R18	390
R28	330	C28	0.02	R19	2.2K
R29	10K	C29	0.02	R20	10K
R30	470	C30	10V	R21	10K
R31	10	C31	40	R22	47K
R32	3.6K	C32	160	R23	6.8K
R33	120	C33	10	R24	5.6K
R34	4.7	C34	10	R25	15K
R35	15	C35	10	R26	10K
R36	15	C36	10	R27	4.7K
R37	15	C37	10	R28	330
R38	15	C38	10	R29	10K
R39	15	C39	10	R30	470
R40	15	C40	10	R31	10
R41	15	C41	10	R32	3.6K
R42	15	C42	10	R33	120
R43	15	C43	10	R34	4.7
R44	15	C44	10	R35	15
R45	15	C45	10	R36	15
R46	15	C46	10	R37	15
R47	15	C47	10	R38	15
R48	15	C48	10	R39	15
R49	15	C49	10	R40	15
R50	15	C50	10	R41	15
R51	15	C51	10	R42	15
R52	15	C52	10	R43	15
R53	15	C53	10	R44	15
R54	15	C54	10	R45	15
R55	15	C55	10	R46	15
R56	15	C56	10	R47	15
R57	15	C57	10	R48	15
R58	15	C58	10	R49	15
R59	15	C59	10	R50	15
R60	15	C60	10	R51	15
R61	15	C61	10	R52	15
R62	15	C62	10	R53	15
R63	15	C63	10	R54	15
R64	15	C64	10	R55	15
R65	15	C65	10	R56	15
R66	15	C66	10	R57	15
R67	15	C67	10	R58	15
R68	15	C68	10	R59	15
R69	15	C69	10	R60	15
R70	15	C70	10	R61	15
R71	15	C71	10	R62	15
R72	15	C72	10	R63	15
R73	15	C73	10	R64	15
R74	15	C74	10	R65	15
R75	15	C75	10	R66	15
R76	15	C76	10	R67	15
R77	15	C77	10	R68	15
R78	15	C78	10	R69	15
R79	15	C79	10	R70	15
R80	15	C80	10	R71	15
R81	15	C81	10	R72	15
R82	15	C82	10	R73	15
R83	15	C83	10	R74	15
R84	15	C84	10	R75	15
R85	15	C85	10	R76	15
R86	15	C86	10	R77	15
R87	15	C87	10	R78	15
R88	15	C88	10	R79	15
R89	15	C89	10	R80	15
R90	15	C90	10	R81	15
R91	15	C91	10	R82	15
R92	15	C92	10	R83	15
R93	15	C93	10	R84	15
R94	15	C94	10	R85	15
R95	15	C95	10	R86	15
R96	15	C96	10	R87	15
R97	15	C97	10	R88	15
R98	15	C98	10	R89	15
R99	15	C99	10	R90	15
R100	15	C100	10	R91	15

ISSUE	CHANGE	DATE	BY/NO
1	ORIGINAL	26-1-62	

MATERIAL	QUANTITY	PROJECT	QTY.
MECH			
ELEC			
STYLING			

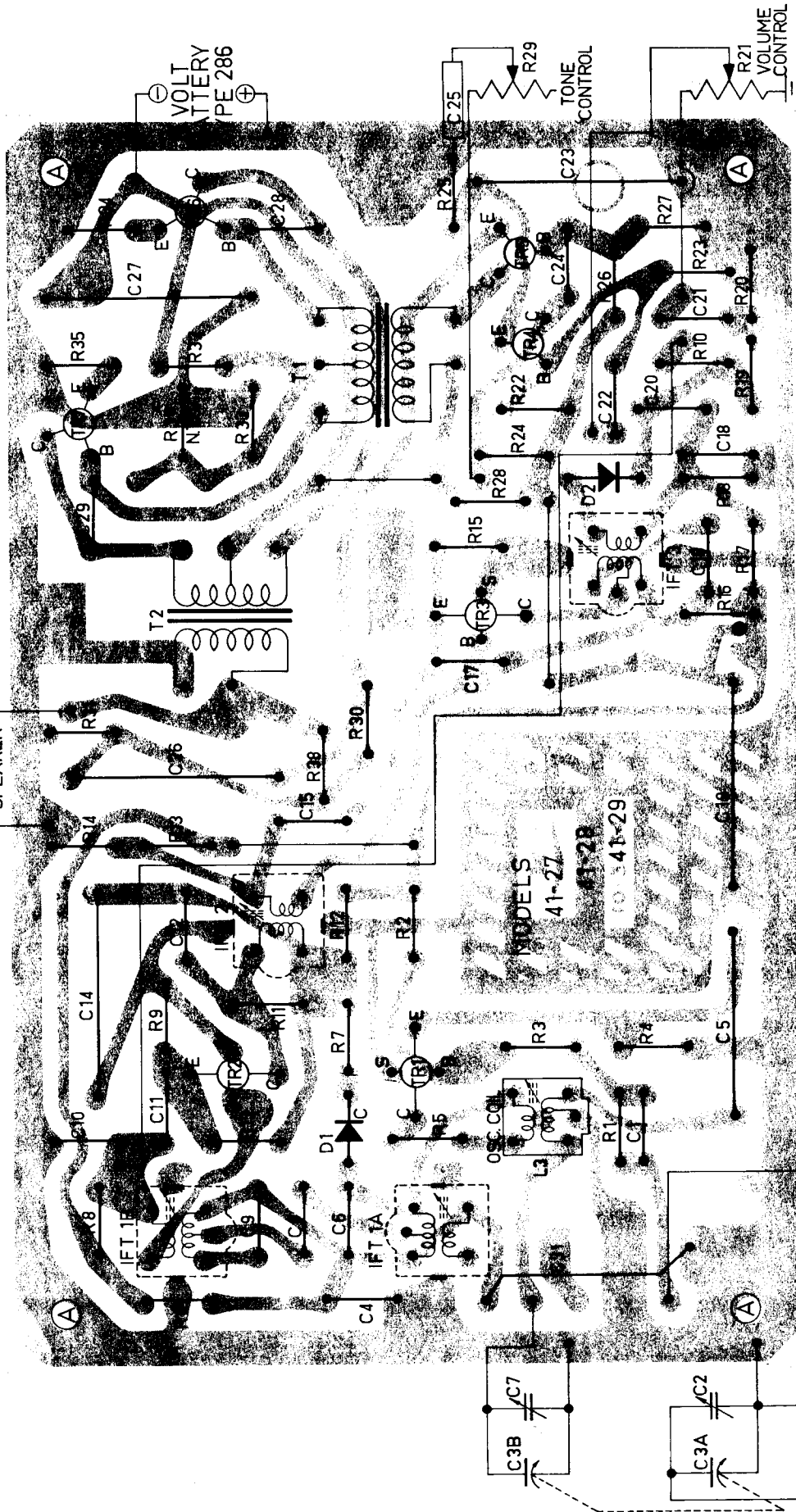
  

MODEL	DATE
7 TRANSISTOR MANTEL RECEIVER	4-1-29

Work to Dimensions only. Unless otherwise specified, tolerances to be read as: ± 1/16" on Fractions, ± .008" on Decimals.

Before production is commenced 2 samples must be submitted to Drawing Office for approval. This Drawing must be returned to ERNSLER AUSTRALIA PTY. LTD. 49 ALICE STREET, NEWTOWN. SCALE

COMPONENT LAYOUT DIAGRAM



VIEWED FROM PRINTED WIRING  
SIDE OF BOARD

L2  
LOOP STICK

# 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.	" "	" " "	"	" " IFT 2.
3.	" "	" " "	"	" " IFT 1B.
4.	" "	" " "	"	" " IFT 1A.
5.	" "	Radiated	"	Adjust all IF's for max. gain.
6.	-----	-----	Closed	Set dial pointer to 'pointer-set' (P.S.) mark on scale at L. Freq. end.
7.	550 Kc/s.	Base of TR 1.	at 550 Kc/s.	Peak Oscillator core.
8.	1.5 Mc/s.	" " "	at 1.5 Mc/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 1.5 Mc/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.

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

## DIAL LAMPS / BATTERY CHECK.

The additional load placed on the battery when the dial lamps are switched on may be used to provide a convenient check on the battery condition. To check the battery by this means, operate the receiver at normal listening volume and then switch on the dial lamps. No change or 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 lamps are switched off, the battery is discharged and should be replaced.