



**TECHNICAL SERVICE INFORMATION**

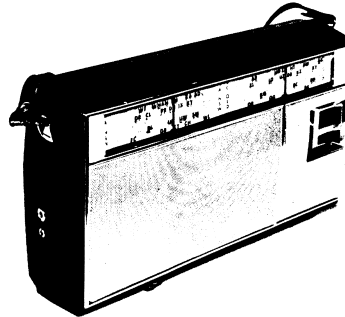
ISSUED BY

**KRIESLER AUSTRALASIA PTY. LIMITED**

12-30 Cawarra Road, Caringbah. P.O. Box 107, Caringbah. Telephone 5-2044

**DESCRIPTION.**

Model 41-45 is an 8 transistor portable receiver designed for Broadcast Band reception from 525 to 1635 Kc/s. It is housed in a moulded plastic cabinet and is fitted with an adjustable carrying strap. Sockets are provided for the connection of an extension or car radio aerial and an earpiece.



**AERIAL.**

Inbuilt ferrite-rod. An external aerial may be connected to the large socket on the left-hand end of the cabinet using a Kriesler 90-4867 plug.

**CAR AERIAL.**

For car radio operation, the Kriesler whip aerial type 90-4866 is recommended. It is already fitted with the correct plug and its capacitance does not exceed the allowable limit of 150 pF.

**EARPIECE.**

A dynamic earpiece of 7 to 15 ohms impedance may be plugged into the smaller of the two sockets on the left-hand end of the cabinet.

**BATTERIES.**

Four 1.5V 'c' cells, Eveready 1035, or equivalent Manganese Alkaline cells may be used for longer life. For battery access, remove the centre screw and cabinet back by twisting a coin in the slot on the base of the cabinet.

**CHASSIS ACCESS AND REMOVAL.**

For access, remove the cabinet back (see above). For complete removal, remove the three self-tapping screws securing the metal chassis to the cabinet front. The chassis may now be lifted out to the limit of the speaker and battery leads.

**DIMENSIONS.**

Length 9", Height 5½", Depth 2¾".

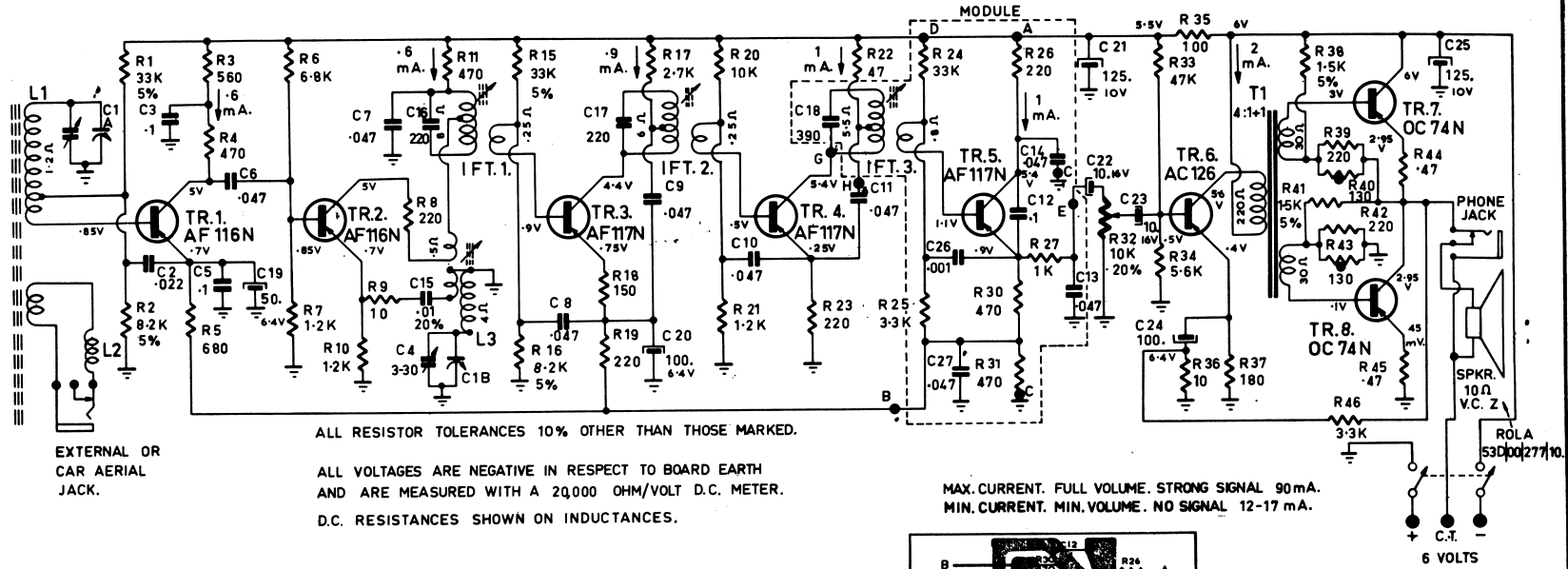
**WEIGHT.**

2 lbs. 5½" oz. including batteries.

**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 of IFT 3
2. ....	455 Kc/s	Base of TR 1	Closed	Peak core of IFT 2
3. ....	455 Kc/s	Base of TR 1	Closed	Peak core of IFT 1
4. ....	—	—	—	Repeat until no further gain is obtainable.
5. ....	455 Kc/s	Radiate into Aerial	Closed	Check alignment of IFT 1.
6. ....	525 Kc/s	Radiate into Aerial	Closed	Adjust oscillator coil until signal is heard.
7. ....	1635 Kc/s	Radiate into Aerial	Open	Tune oscillator trimmer until signal is heard.
8. ....	600 Kc/s	Radiate into Aerial	at 600 Kc/s	Peak aerial coil.
9. ....	1500 Kc/s	Radiate into Aerial	at 1500 Kc/s	Peak aerial trmr.
10. ....	—	—	—	Using weak station signal, calibrate low end of scale at oscillator coil.
11. ....	—	—	—	Using weak station signal, calibrate high end of scale at oscillator trimmer.
12. ....	—	—	—	Repeat 8 and 9 until no further gain is obtainable.

**NOTE:** Inject 455 Kc/s signal to base of TR 1 via a 0.22 uF capacitor.

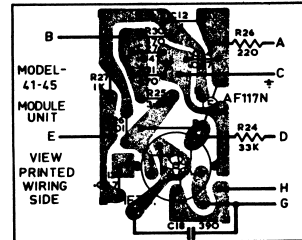


ELECTRICAL PARTS LIST.

MODEL No. 41-45

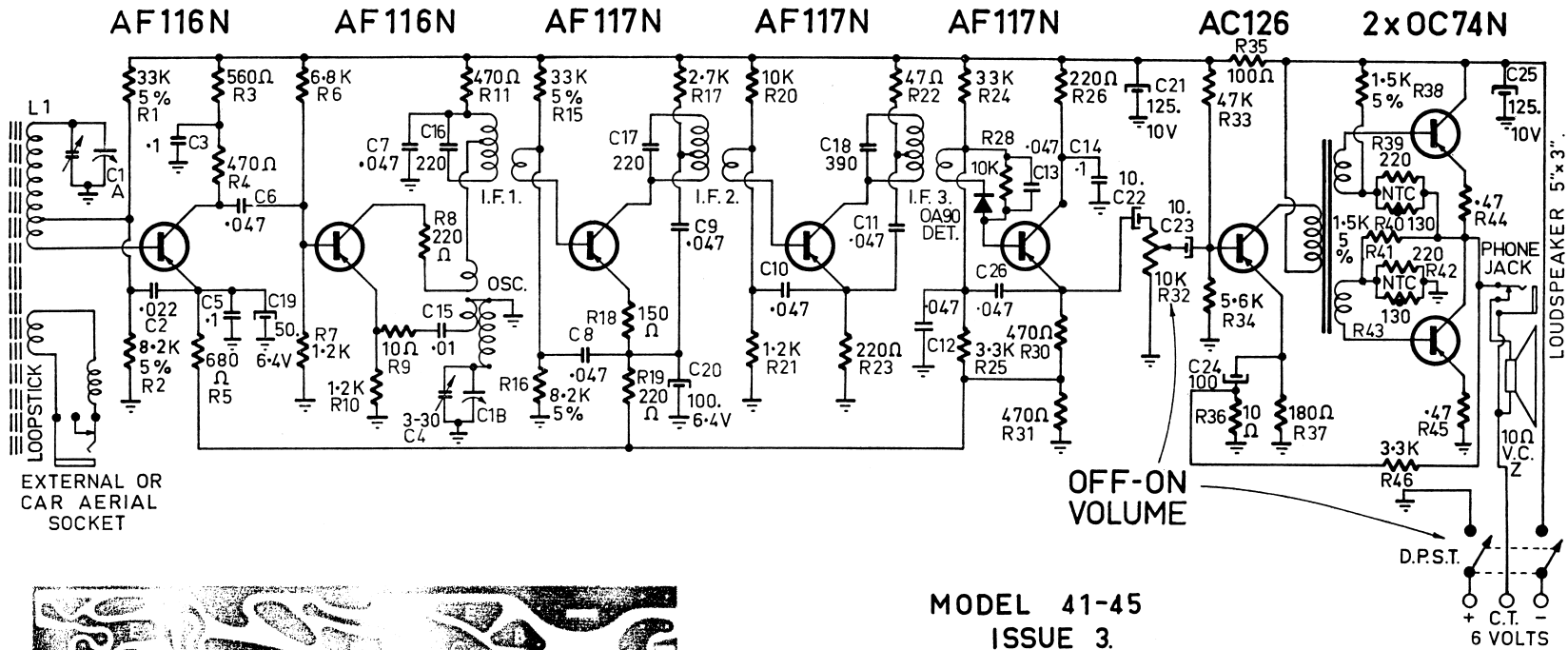
CHASSIS No. 89-24.

R1	33K	5%	BTS	5%	I.R.C.	R26	220Ω	10%	BTS	10%	I.R.C.	C3,12	.1uF	25V	Ceramic.	
R2	8.2K	"	"	"	"	R27	1K	"	"	"	"	C4	3-30pF	Wire	trimmer.	
R3	560Ω	"	"	10%	"	R30	470Ω	"	"	"	"	C5	.1uF	25V	Ceramic.	
R4	470Ω	"	"	"	"	R31	470Ω	"	"	"	"	C6-14	.047uF	25V	Ceramic.	
R5	680Ω	"	"	"	"	R32	10K Pot.	32-5705.	Kriesler	"	"	C15	.01uF	25V	Ceramic.	
R6	6.8K	"	"	"	"	R33	47K	5%	BTS	10%	I.R.C.	C16-7	220pF	125V	Styroseal.	
R7	1.2K	"	"	"	"	R34	5.6K	"	"	"	"	C18	390pF	"	"	
R8	220Ω	"	"	"	"	R35	100Ω	"	"	"	"	C19	50uF	6.4V	Electro.	
R9	10Ω	"	"	"	"	R36	10Ω	"	"	"	"	C20	100uF	6.4V	"	
R10	1.2K	"	"	"	"	R37	180Ω	"	"	"	"	C21	125uF	10V	"	
R11	470Ω	"	"	"	"	R38	1.5K	5%	"	"	"	C22-3	10uF	16V	"	
R15	33K	"	"	5%	"	R39	220Ω	"	"	10%	"	C24	100uF	6.4V	"	
R16	8.2K	"	"	"	"	R40	130Ω	Thermistor	A/T	Ducon	"	C25	125uF	10V	"	
R17	2.7K	"	"	10%	"	R41	1.5K	5%	BTS	5%	I.R.C.	C26	.001uF	200V	Styroseal.	
R18	150Ω	"	"	"	"	R42	220Ω	"	"	"	"	C27	.047uF	25V	Ceramic.	
R19	220Ω	"	"	"	"	R43	130Ω	Thermistor	A/T	Ducon	"	L1	Loopstick.	14-5572	"	
R20	10K	"	"	"	"	R44	47Ω	5%	BTS	10%	I.R.C.	L2	Choke.	34-4657	"	
R21	1.2K	"	"	"	"	R45	.47Ω	"	"	"	"	L3	Osc. Coil.	14-4660	"	
R22	47Ω	"	"	"	"	R46	3.3K	"	"	"	"	IFT1	I.F. Trans.	24-2153	"	
R23	220Ω	"	"	"	"	C1	Gang.	63-3899.	M.S.P.	"	"	IFT2	I.F. Trans.	24-2154	"	
R24	33K	"	"	"	"	C2	.022uF	25V	Ceramic	"	"	IFT3	I.F. Trans.	24-5594	"	
R25	3.3K	"	"	"	"	T1	Driver	Trans.	"	"	"	T1	Driver	Trans.	18-5593	"



CHASSIS No. 89-24.

ORIGINAL		CHANGE		7-8-64		DATE		S'GND	
ISSUE									
MATERIAL		DRAWN	A. Shearer 2/24	PROJECT	QTY.	PROJECT	QTY.	PROJECT	QTY.
GAUGE		CHECKED	S. Reed 2-2-64						
FINISH		MECH.							
Prescription No.		SEC.							
		STYLING							
8 - TRANSISTOR B/C PORTABLE				41-45		Work to Dimensions only. Unless otherwise specified, Tolerances to be read as: ± 1/64" on Fractions. ± .006" on Decimals.			
Before production is commenced 2 samples must be submitted to Drawing Office for approval.									
This Drawing must be returned to KRIESLER AUSTRALASIA PTY. LTD. 12-30 CAWARRA RD. CARBORNSHIRE									
SCALE									

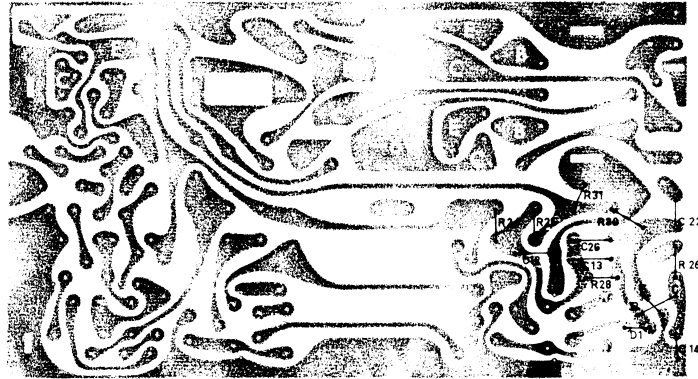


EXTERNAL OR CAR AERIAL SOCKET

OFF-ON VOLUME

D.R.S.T.

6 VOLTS



MODEL 41-45  
ISSUE 3.

CHANGES IN THIS MODEL.  
 DELETIONS: R27, 1K. C12, .1. C27, .047.  
 ADDITIONS: R28, 10K. D1, OA90.  
 CHANGES: C14, FROM .047 TO .1. C26 FROM .001 TO .047.

CORRECTION TO ORIGINAL PARTS LIST. C16-7 SHOULD READ C16,17.

LABEL PART N<sup>o</sup>. 10-6300.

ISSUE 3	24-1-66.	<i>F. Leguitha.</i>
---------	----------	---------------------