TECHNICAL SERVICE INFORMATION

ISSUED BY

KRIESLER AUSTRALASIA PTY. LIMITED

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

Dual-Wave Portable Receiver
Model 41-34

Description. Model 41-34 is an 8 transistor dual-wave portable receiver designed for Broadcast Band reception from 525 to 1635 Kc/s and Short Wave reception from 4.8 to 12 Mc/s.

Dial Scales. Four separate Broadcast Band dial scales are provided, the N.S.W. scale being fitted upon delivery. To change scales remove the cabinet back (see 'chassis access') and slide out the dial lens. The scale may now be changed.

Aerial. The inbuilt ferrite-rod aerial operates on both Broadcast and Short-Wave. The whip aerial is capacitively coupled to the ferrite-rod aerial and may be used to partly offset the inherent directivity of this aerial. To obtain improved performance, the chassis may be earthed at the screw on the cabinet back.

External or Car Aerial. These may be connected by the plug provided to the larger of the two sockets on the right-hand end of the cabinet. Connect external aerial to the red lead and earth to the black lead on the plug. The earth side of this socket is not internally connected to the chassis earth terminal on the cabinet back. For car radio operation, the Kriesler 'Tough-Rider Whip Aerial' (Part No. 90-4866) is recommended. It is already fitted with the correct plug and its capacitance does not exceed the allowable limit of 150 pF.

Batteries. Six 1.5 volt 'C' size cells (Eveready 935 or equivalent). For battery access, slide the catch on the compartment cover to the right and hinge back the cover.

Chassis Access. To detach the cabinet back, open the battery compartment, take out the batteries and remove the screw inside. Unscrew the screw in the centre of the cabinet back and detach back. This screw is captive and need not be removed. The chassis is now accessible for most servicing operations. For complete removal, detach the volume control bracket and unsolder the various leads to the board and loudspeaker.

Note. If a replacement speaker is fitted, ensure that the paint is scraped off where connections are required.

Dimensions. Length 10", Height 5", Depth 4".

Weight. 3 lbs 4 oz with batteries.

Replacement Parts.

Tuning knob	20-4596	Cabinet rear	20-4592
Whip aerial	90-4610	Cabinet front	20-4590
Ext. aerial plug	90-4867 with leads	Front panel insert	20-4591
	90-4868 without leads	Battery cover	20-4593
Speaker grille	16-4576	Dial lens	20-4597

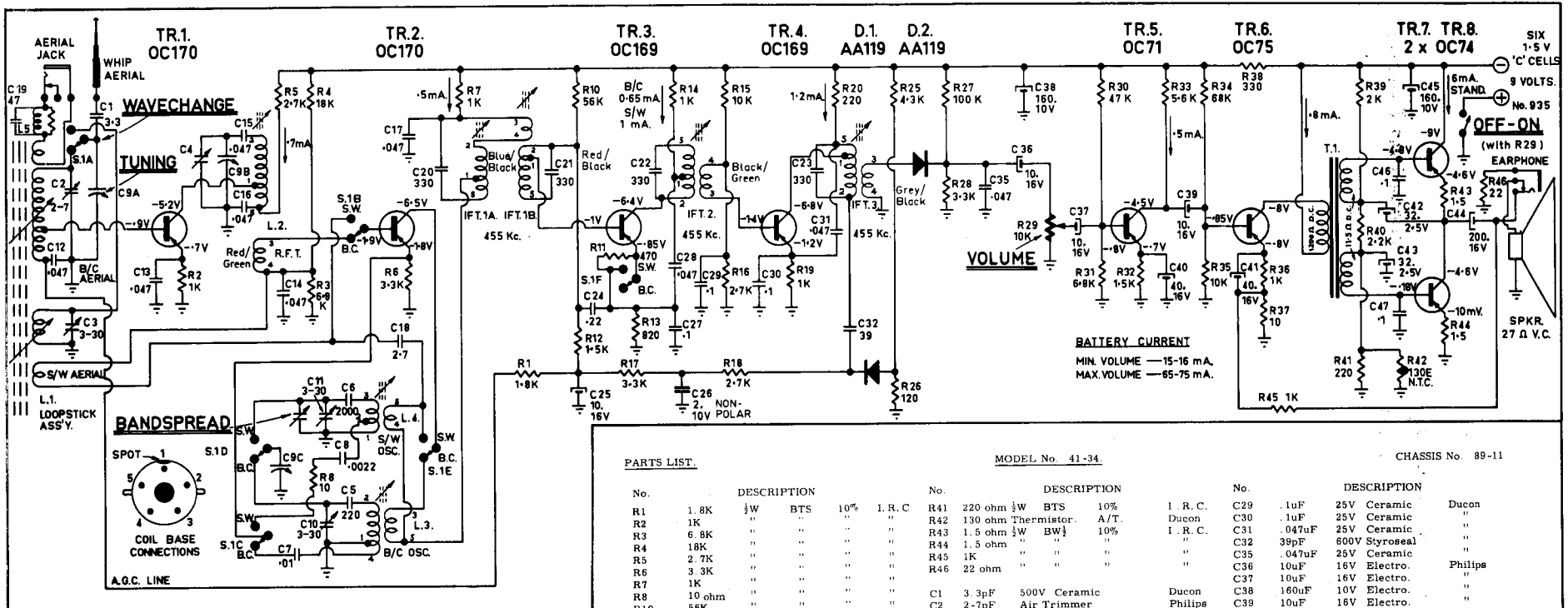
Important Note. The material used in the wavechange switch does not permit the use of conventional cleaning solvents.

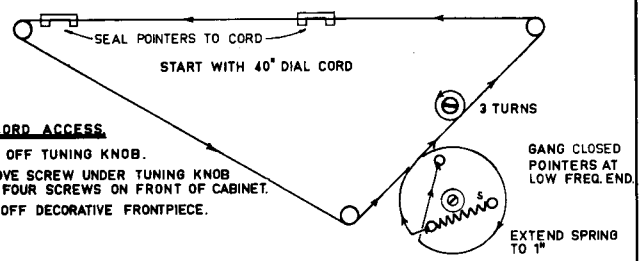
Alignment Procedure.

	Step	Signal Gen. Frequency	Connect Signal Generator To-	With Tuning Gang-	Proceed As Follows-
I.F.	1.	455 Kc/s	Base of TR 2	Closed	Peak core of IFT 3
	2.	" "	" "	"	" " " IFT 2
	3.	" "	" "	"	" " " IFT 1B
	4.	" "	" "	"	" " " IFT 1A
	5.	———	———	———	Repeat until no further gain is obtainable.
Broadcast R.F.	6.	———	———	———	Turn Wavechange switch to B/C position.
	7.	455 Kc/s	Radiate into Aerial	Closed	Check alignment of IFT 1A.
	8.	———	———	———	Adjust R. F. trimmer on gang to maximum capacitance.
	9.	525 Kc/s	Radiate into Aerial	Closed	Adjust B/C osc. coil for max. output.
	10.	1635 Kc/s	"	Open	Peak B/C osc. trimmer.
	11.	600 Kc/s	"	at 600 Kc/s	Peak R. F. transformer.
	12.	600 Kc/s	"	at 600 Kc/s	Peak B/C aerial coil.
	13.	1500 Kc/S	"	at 1500Kc/s	Peak B/C aerial trimmer.
	14.	1500 Kc/s	"	at 1500Kc/s	Peak R. F. trimmer.
	15.	———	———	———	Using weak station signal calibrate low end of scale at B/C osc. coil.
	16.	———	———	———	Using weak station signal calibrate high end of scale at B/C osc. trimmer.
	17.	———	———	———	Repeat 11, 12, 13 and 14.
Short-Wave R.F.	18.	———	———	———	Turn Wavechange switch to S/W position and Bandspread control to centre ('5' above notch in Wavechange lever).
	19.	4.8 Mc/s	Radiate into Aerial	Closed	Peak S/W osc. coil.
	20.	12 Mc/s	"	Open	Peak S/W osc. trimmer.
	21.	———	———	———	Repeat 19 and 20.
	22.	5 Mc/s	Radiate into Aerial	at 5 Mc/s	Peak S/W aerial coil by adjusting first two turns.
	23.	Not used	———	at approx. 11 Mc/s	Peak S/W aerial trimmer on random noise. Use peak obtainable with trimmer capacitance nearer max.
	24.	———	———	———	Repeat 22 and 23.

Notes.

1. Inject 455 Kc/s to base of TR 2 via a .22uF coupling capacitor.
2. When adjusting B/C aerial trimmer, the whip aerial must be connected and fully extended.
3. The proximity of the whip aerial to the aerial coils will affect its alignment; therefore, final adjustment of the aerial coils must be done by alternately placing the cabinet back and adjusting the coils until maximum output is obtained with the whip aerial fully extended and in its normal position.





DIAL CORD ACCESS.

1. PULL OFF TUNING KNOB.
2. REMOVE SCREW UNDER TUNING KNOB AND FOUR SCREWS ON FRONT OF CABINET.
3. LIFT OFF DECORATIVE FRONTPIECE.

PARTS LIST. MODEL No. 41-34. CHASSIS No. 89-11

No.	DESCRIPTION				
R1	1.8K	½W	BTS	10%	I.R.C
R2	1K	"	"	"	"
R3	6.8K	"	"	"	"
R4	18K	"	"	"	"
R5	2.7K	"	"	"	"
R6	3.3K	"	"	"	"
R7	1K	"	"	"	"
R8	10 ohm	"	"	"	"
R10	56K	"	"	"	"
R11	470 ohm	"	"	"	"
R12	1.5K	"	"	"	"
R13	820 ohm	"	"	"	"
R14	1K	"	"	"	"
R15	10K	"	"	"	"
R16	2.7K	"	"	"	"
R17	3.3K	"	"	"	"
R18	2.7K	"	"	"	"
R19	1K	"	"	"	"
R20	220 ohm	"	"	"	"
R25	4.3K	"	"	5%	"
R26	120 ohm	"	"	10%	"
R27	100K	"	"	"	"
R28	3.3K	"	"	"	"
R29	10K VOLUME	CONTROL		20%	C.T.S.
R30	47K	½W	BTS	10%	I.R.C.
R31	6.8K	"	"	"	"
R32	1.5K	"	"	"	"
R33	5.6K	"	"	"	"
R34	68K	"	"	"	"
R35	10K	"	"	"	"
R36	1K	"	"	"	"
R37	10 ohm	"	"	"	"
R38	330 ohm	"	"	"	"
R39	2K	"	"	5%	"
R40	2.2K	"	"	10%	"

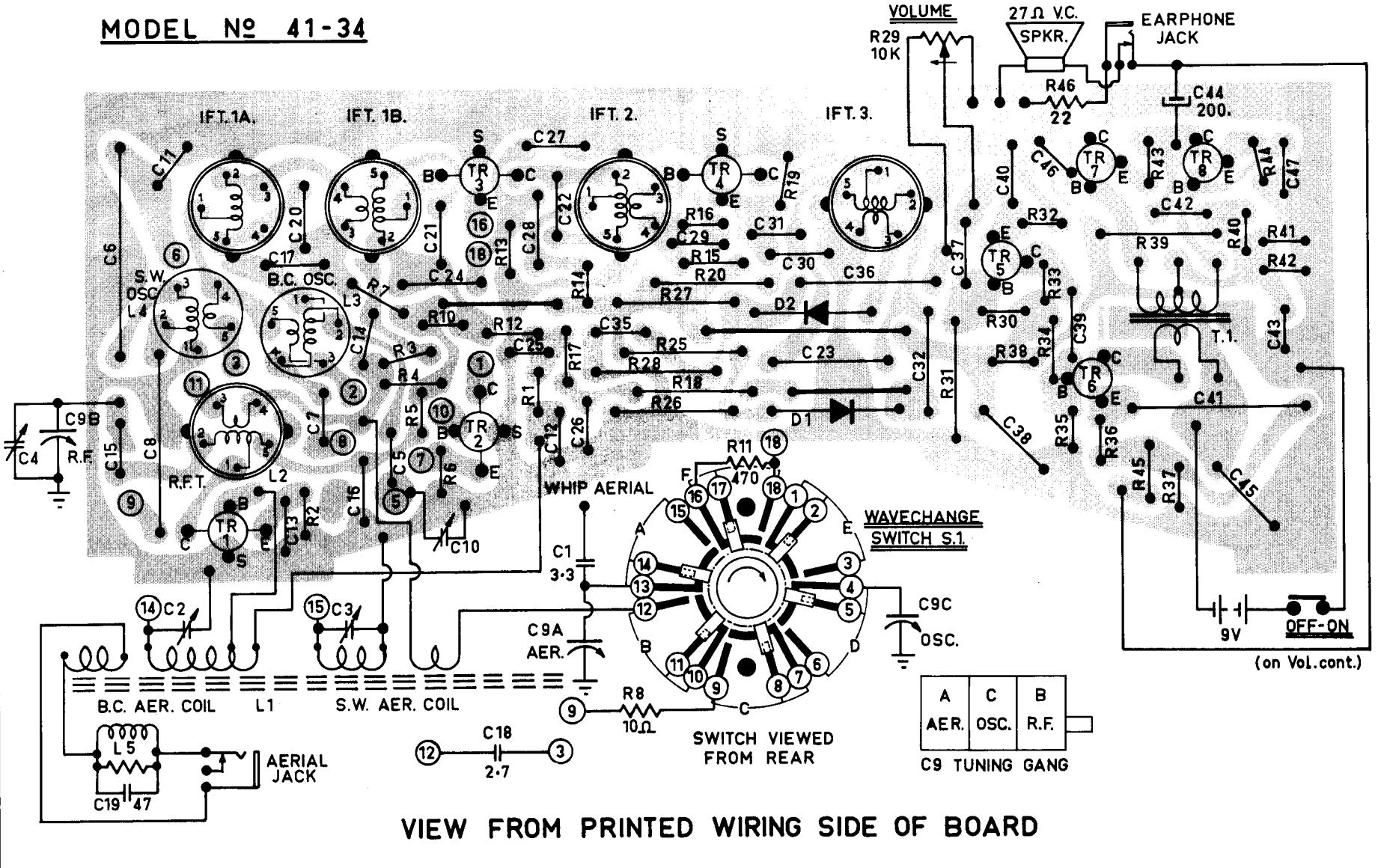
No.	DESCRIPTION				
R41	220 ohm	½W	BTS	10%	I.R.C.
R42	130 ohm	Thermistor.		A/T.	Ducon
R43	1.5 ohm	½W	BW½	10%	I.R.C.
R44	1.5 ohm	"	"	"	"
R45	1K	"	"	"	"
R46	22 ohm	"	"	"	"
C1	3.3pF	500V	Ceramic		Ducon
C2	2-7pF	Air Trimmer			Philips
C3	3-30pF	Air Trimmer			Philips
C4	3-10pF	Trimmer (on gang)			
C5	220 pF	500V	Mica MS		Ducon
C6	2000pF	500V	Mica SM		"
C7	.01uF	25V	Ceramic		"
C8	.0022uF	400V	Polyester		Philips
C9	Tuning Gang.	63-4623			M.S.P.
C10	3-30pF	Wire Trimmer			Ducon
C11	3-30pF	Wire Trimmer			"
C12	.047uF	25V	Ceramic		"
C13	.047uF	"	"		"
C14	.047uF	"	"		"
C15	.047uF	"	"		"
C16	.047uF	"	"		"
C17	.047uF	"	"		"
C18	2.7pF	500V	Ceramic		"
C19	47pF	500V	Ceramic		"
C20	330pF	600V	Styroseal		"
C21	330pF	600V	Styroseal		"
C22	330pF	600V	Styroseal		"
C23	330pF	600V	Styroseal		"
C24	.22uF	25V	Ceramic		"
C25	10uF	16V	Electro.		Philips
C26	2uF	3V	Electro.	N.P.U.C.C.	
C27	.1uF	25V	Ceramic		Ducon
C28	.047uF	25V	Ceramic		"

No.	DESCRIPTION			
C29	.1uF	25V	Ceramic	Ducon
C30	.1uF	25V	Ceramic	"
C31	.047uF	25V	Ceramic	"
C32	39pF	600V	Styroseal	"
C35	.047uF	25V	Ceramic	"
C36	10uF	16V	Electro.	Philips
C37	10uF	16V	Electro.	"
C38	160uF	10V	Electro.	"
C39	10uF	16V	Electro.	"
C40	40uF	16V	Electro.	"
C41	40uF	16V	Electro.	"
C42	32uF	2.5V	Electro.	"
C43	32uF	2.5V	Electro.	"
C44	200uF	16V	Electro.	"
C45	160uF	10V	Electro.	"
C46	.1uF	25V	Ceramic	Ducon
C47	.1uF	25V	Ceramic	"
L1	Loopstick Assembly.		Kriesler	14-4618.9
L2	R.F. Transformer.		"	24-4616
L3	S.W. Oscillator Coil.		"	14-4617
L4	B.C. Oscillator Coil.		"	14-4660
L5	Compensating Coil.		"	34-4657
IFT1A	I.F. Transformer.		"	24-4539
IFT1B	I.F. Transformer.		"	24-4540
IFT2	I.F. Transformer.		"	24-4541
IFT3	I.F. Transformer.		"	24-4542
T1	Driver Transformer.		"	18-4671
S1	Wavechange Switch.		"	17-4620
Spkr.	5" x 3". CQ. 27 ohm V.C.			Rola.
Aerial	10 Section Telescopic.			90-4610
Jack	Carr-Fastener.			733-12-1
Volume Control. SPST.			Kriesler	32-4622

NOTE: C26 is a non-polar type SME. (U.C.C.).

ISSUE: 1	DATE: 26-4-63.	CHASSIS No: 89-11.		
DUAL-WAVE TRANSISTOR PORTABLE	41-34	DRAWN		
		CHECKED		
		APPROVED		4/5/63

MODEL Nº 41-34



VIEW FROM PRINTED WIRING SIDE OF BOARD