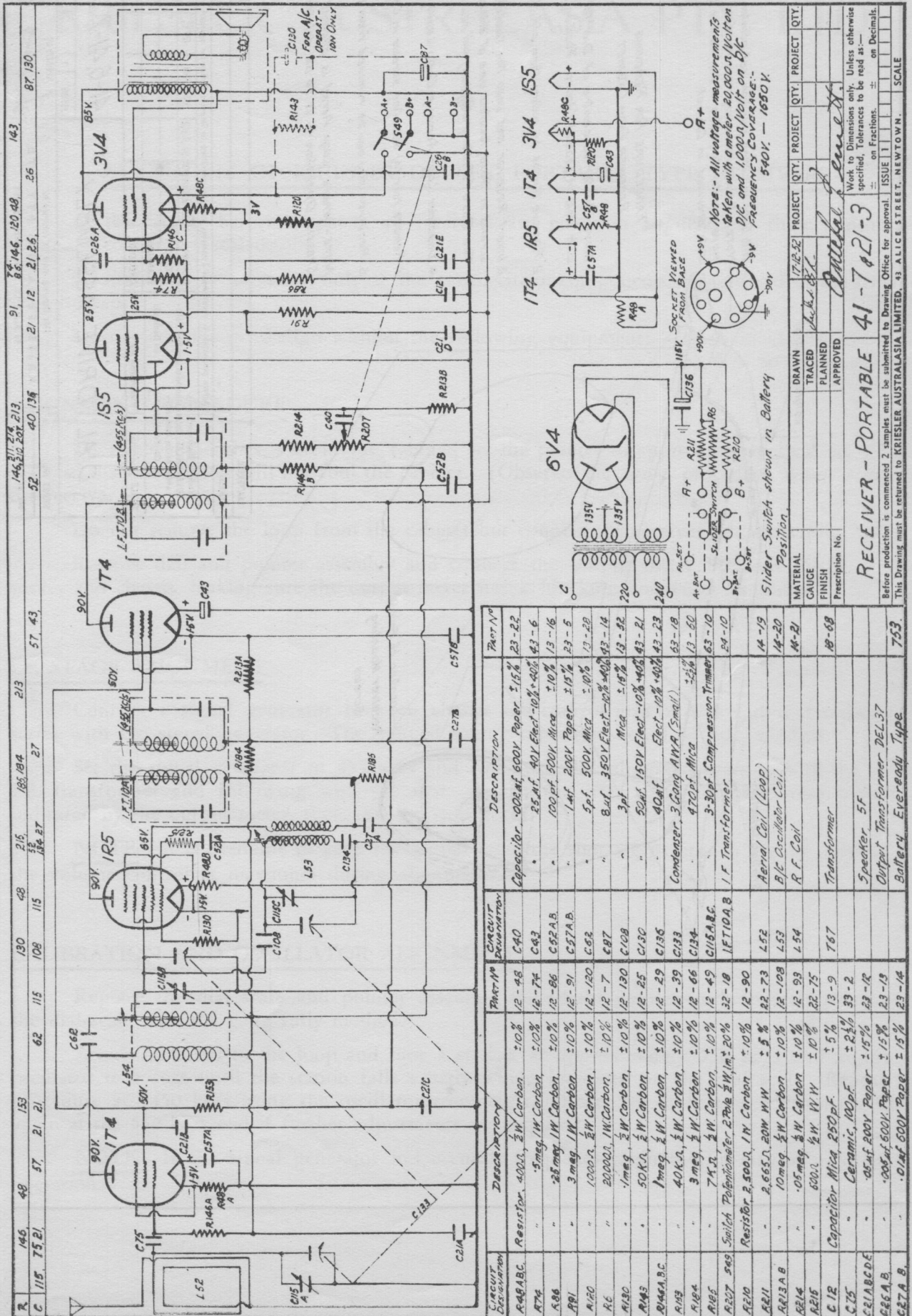


TECHNICAL SERVICE INSTRUCTIONS

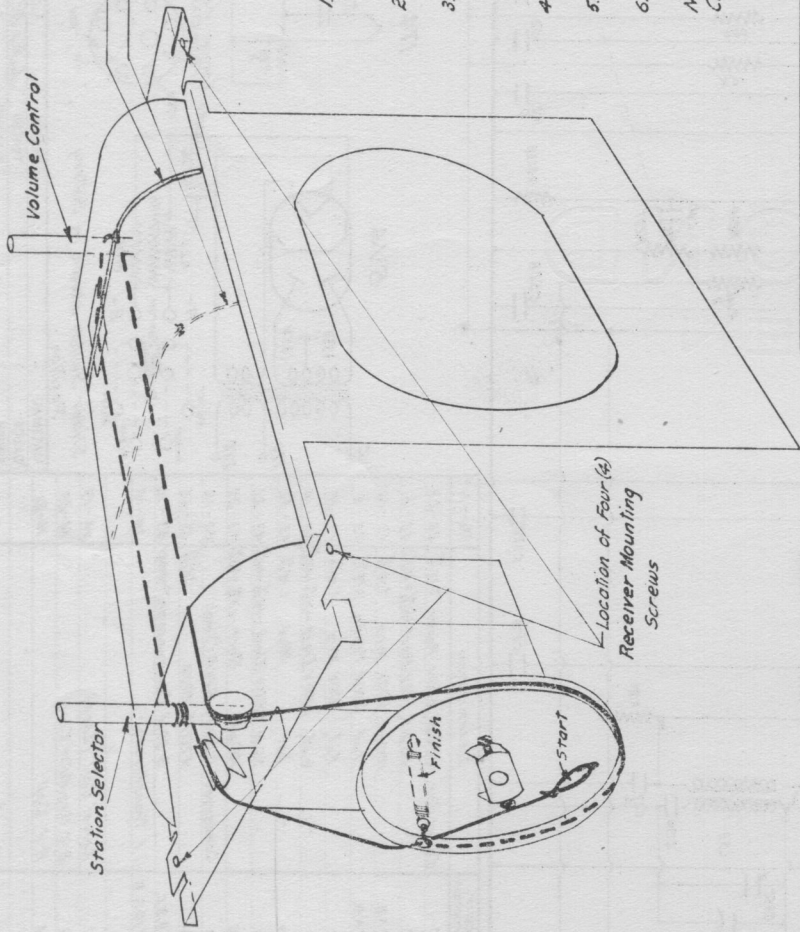
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KRIESLER AUSTRALASIA PTY. LTD.

41-7 RECEIVER PORTABLE, BATTERY OPERATION
21-3 RECEIVER PORTABLE, BATTERY A.C. OPERATION



CIRCUIT DESIGNATION	DESCRIPTION	PART NO.	CIRCUIT DESIGNATION	DESCRIPTION	PART NO.
R40A,B,C	Resistor, 400Ω, ½W Carbon	12-48	C40	Capacitor, 100μF, 600V Paper	23-22
R7A	" 5meg ½W Carbon	12-74	C43	" 25μF, 40V Elect-10%+40% 43-6	
R8B	" 25meg ½W Carbon	12-86	C52A,B	" 100μF, 500V Mica	13-16
R9I	" 3meg ½W Carbon	12-91	C57A,B	" 1μF, 200V Paper	23-5
R120	" 1000Ω, ½W Carbon	12-120	C62	" 5μF, 500V Mica	13-20
R6	" 2000Ω, ½W Carbon	12-7	C87	" 8μF, 350V Elect-10%+40% 43-14	
R130	" 1meg, ½W Carbon	12-120	C108	" 3μF, 150V Elect-10%+40% 43-21	
R43	" 50KΩ, ½W Carbon	12-25	C130	" 50μF, 150V Elect-10%+40% 43-21	
R14A,B,C	" 1meg, ½W Carbon	12-29	C136	" 40μF, Elect-10%+40% 43-23	
R19	" 40KΩ, ½W Carbon	12-39	C133	Condenser, 3 Gang AWR (Small)	63-18
R184	" 3meg, ½W Carbon	12-66	C134	" 470pF, Mica	13-60
R185	" 7KΩ, ½W Carbon	12-49	C16A,B,C	" 3-30pF Compression Trimmer	63-10
R207	Switch Potentiometer 20kΩ ½W 1m±20%	32-18	LFT10A,B	" 1 F Transformer	64-10
R210	Resistor, 2,500Ω, ½W Carbon	12-90			
R211	" 2,665Ω, 20W W W	5-5			
R213A,B	" 10meg, ½W Carbon	12-108	L52	Aerial Coil (Loop)	14-19
R214	" 0.05meg, ½W Carbon	12-93	L53	B/C Oscillator Coil	14-20
R215	" 600Ω, ½W W W	22-75	L54	R F Coil	14-21
C12	Capacitor Mica 250pF	13-9			
C15	" Ceramic, 100pF	33-2			
C21A,B,C,D,E	" 0.05μF 200V Paper	23-12			
C26A,B	" 100μF 600V Paper	23-13			
C27A,B	" 0.01μF 600V Paper	23-14			



With Gang in closed position, set pointer this end.
 NOTE:- Before removing receiver from Cabinet, move pointer to centre of Dial, to line up with slots provided in Cabinet.

PROCEDURE FOR REMOVING
 RECEIVER FROM CABINET

1. Move Pointer to centre of Dial, to line up with slots in Cabinet (Approx. Position ERY)
2. Remove Knobs by pulling them off Spindles.
3. Invert Receiver and undo the Two (2) captive screws in Base, located one at either end. The Base (Battery attached) will now lift off.
4. Unsolder Loop Aerial & Earth Leads.
5. Remove four (4) mounting screws in Chassis.
6. Receiver may now be removed from Cabinet.

NOTE:- Where Loop Aerial is attached To Chassis Operation 4 is to be deleted.

MATERIAL		Before production is commenced 2 samples must be submitted to Drawing Office for approval.									
FINISH		DRAWN		M. FERNANDEZ		D. 3.53		USED ON		QTY.	
Work to Dimensions only. TOLERANCES: Unless otherwise specified Tolerances to be read as:—		CODING		CHECKED		USED ON		QTY.		USED ON	
+ On Fractions. + on Decimals.		PLANNING		CHECKED		USED ON		QTY.		USED ON	
SCALE		Prescription No.		CHECKED		USED ON		QTY.		USED ON	
DIAL DRIVE ASSEMBLY											
41-6,41-7,21-2,21-3											
SHEET No.		This Drawing must be returned to								APPROVED	
No. of Sheets.		KRIESLER (A'SIA) PTY. LTD.								Card No.	
		43 ALICE ST., NEWTOWN, SYDNEY.								File No.	

TECHNICAL SERVICE INSTRUCTIONS

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KRIESLER AUSTRALASIA PTY. LTD.

ALIGNMENT OF KRIESLER DUPLEX PORTABLE TYPE RECEIVERS

At the factory before despatch, all receivers are precision aligned and their appropriate trimming condensers sealed.

Re-alignment is necessary only if the tuned circuit components are replaced or the trimmer seals broken.

Do not attempt to re-align without the following equipment:—(a) A modulated oscillator
(b) 0 to 50V output meter.

ALIGNMENT PROCEDURE

To remove the chassis from the cabinet, set the pointer to approximately 2KY on the dial scale, so that the pointer will not foul the cabinet. (Observe the same procedure when replacing the receiver.)

Do not remove the loop from the cabinet but connect the receiver with extension leads.

Remove dial and pointer assembly and connect the output meter between Pin 2 of 3V4 socket and chassis, making sure the output meter has a blocking condenser in series.

I.F. STAGE ALIGNMENT

Connect a signal generator between chassis and control grid of 1R5 with a .1 capacitor in series with the signal generator. The ganged tuning capacitor should be fully meshed.

Set the signal generator to 455 k/cs and commence I.F. alignment starting with the second I.F. transformer and following with the first. Adjust the iron cores for maximum output as indicated by the output meter, then seal the iron cores.

NOTE.—It is desirable to keep the output from the signal generator as low as possible and the volume control at maximum during alignment.

CALIBRATION AND OSCILLATOR ALIGNMENT

Replace the dial scale and pointer assembly and set the pointer to the pointer set mark on the dial scale with the gang fully meshed.

Attach an aerial to the loop and tune a station at approximately 550 kc/s and adjust the oscillator iron core until the station falls exactly where indicated on the dial scale. Repeat this procedure at 1450 kc/s using the oscillator trimming condenser for calibration adjustment. Check again at the 550 kc/s end if further adjustments are required.

NOTE.—If the signal generator has accurate frequency calibration, it may be used for this operation.

R.F. STAGE ALIGNMENT (Where applicable)

Connect the signal generator between chassis and control grid of R.F. stage with a .1 uf capacitor in series with the grid lead.

Set the signal generator and receiver to 600 kc/s and adjust the iron core of the R.F. coil for maximum output.

Repeat this procedure at 1450 kc/s using the R.F. coil trimming condenser for adjustment.

Repeat both adjustments to obtain maximum sensitivity, then seal the trimmers and R.F. coil iron core.

LOOP AERIAL ALIGNMENT

Fit the receiver to cabinet and re-connect loop aerial.

NOTE.—The battery must be in position for correct loop alignment.

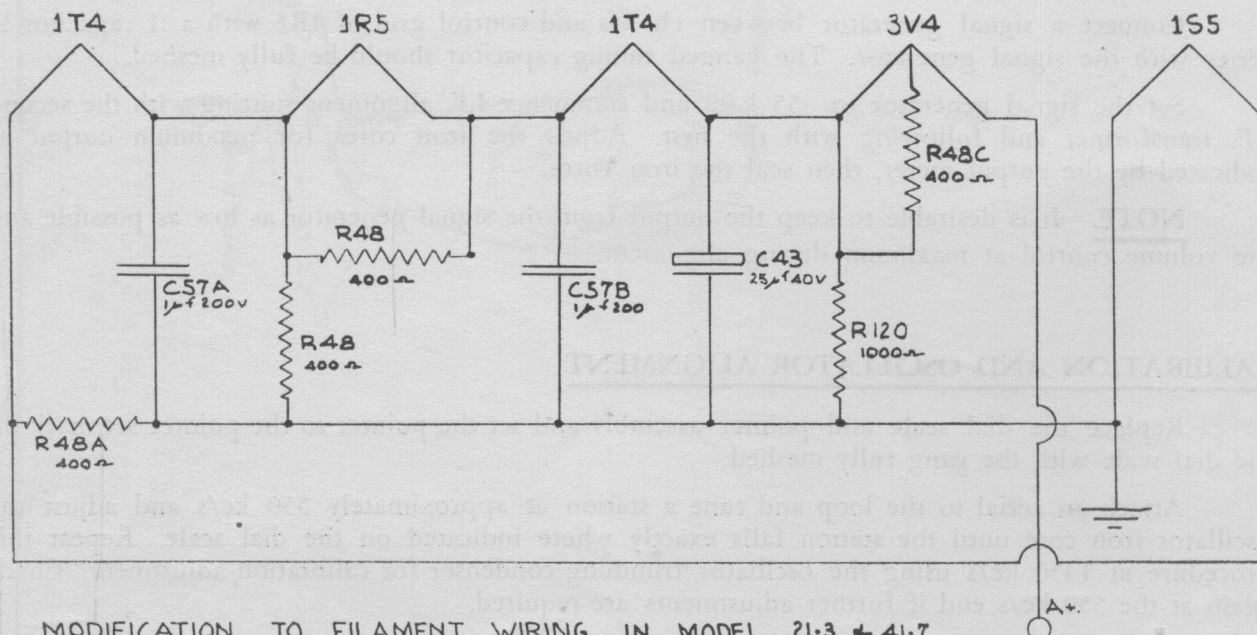
Tune a distant station at approximately 1450 kc/s and adjust the loop trimming condenser for maximum output.

Then tune a distant station at approx. 600 kc/s and check the loop alignment by means of the loop trimming condenser. Should loop need adjusting, the inductance may be varied by means of adjusting turns in the centre of the loop.

Repeat the above procedure for maximum sensitivity, then re-set loop trimming condenser at the high frequency end and seal all trimming condensers.

The loop alignment procedure is the same for the 4 valve receiver, except omitting the R.F. stage alignment.

IMPORTANT.—When operating set on A.C. mains. Always turn off at power point.



MODIFICATION TO FILAMENT WIRING IN MODEL 21-3 & 41-7

TECHNICAL SERVICE INSTRUCTIONS

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KRIESLER AUSTRALASIA PTY. LTD.

ALIGNMENT OF KRIESLER DUPLEX PORTABLE TYPE RECEIVERS

At the factory before despatch, all receivers are precision aligned and their appropriate trimming condensers sealed.

Re-alignment is necessary only if the tuned circuit components are replaced or the trimmer seals broken.

Do not attempt to re-align without the following equipment:—(a) A modulated oscillator
(b) 0 to 50V output meter.

ALIGNMENT PROCEDURE

To remove the chassis from the cabinet, set the pointer to approximately 2KY on the dial scale, so that the pointer will not foul the cabinet. (Observe the same procedure when replacing the receiver.)

Do not remove the loop from the cabinet but connect the receiver with extension leads.

Remove dial and pointer assembly and connect the output meter between Pin 2 of 3V4 socket and chassis, making sure the output meter has a blocking condenser in series.

I.F. STAGE ALIGNMENT

Connect a signal generator between chassis and control grid of 1R5 with a .1 capacitor in series with the signal generator. The ganged tuning capacitor should be fully meshed.

Set the signal generator to 455 k/cs and commence I.F. alignment starting with the second I.F. transformer and following with the first. Adjust the iron cores for maximum output as indicated by the output meter, then seal the iron cores.

NOTE.—It is desirable to keep the output from the signal generator as low as possible and the volume control at maximum during alignment.

CALIBRATION AND OSCILLATOR ALIGNMENT

Replace the dial scale and pointer assembly and set the pointer to the pointer set mark on the dial scale with the gang fully meshed.

Attach an aerial to the loop and tune a station at approximately 550 kc/s and adjust the oscillator iron core until the station falls exactly where indicated on the dial scale. Repeat this procedure at 1450 kc/s using the oscillator trimming condenser for calibration adjustment. Check again at the 550 kc/s end if further adjustments are required.

NOTE.—If the signal generator has accurate frequency calibration, it may be used for this operation.

R.F. STAGE ALIGNMENT (Where applicable)

Connect the signal generator between chassis and control grid of R.F. stage with a .1 uf capacitor in series with the grid lead.

Set the signal generator and receiver to 600 kc/s and adjust the iron core of the R.F. coil for maximum output.

Repeat this procedure at 1450 kc/s using the R.F. coil trimming condenser for adjustment.

Repeat both adjustments to obtain maximum sensitivity, then seal the trimmers and R.F. coil iron core.

LOOP AERIAL ALIGNMENT

Fit the receiver to cabinet and re-connect loop aerial.

NOTE.—The battery must be in position for correct loop alignment.

Tune a distant station at approximately 1450 kc/s and adjust the loop trimming condenser for maximum output.

Then tune a distant station at approx. 600 kc/s and check the loop alignment by means of the loop trimming condenser. Should loop need adjusting, the inductance may be varied by means of adjusting turns in the centre of the loop.

Repeat the above procedure for maximum sensitivity, then re-set loop trimming condenser at the high frequency end and seal all trimming condensers.

The loop alignment procedure is the same for the 4 valve receiver, except omitting the R.F. stage alignment.

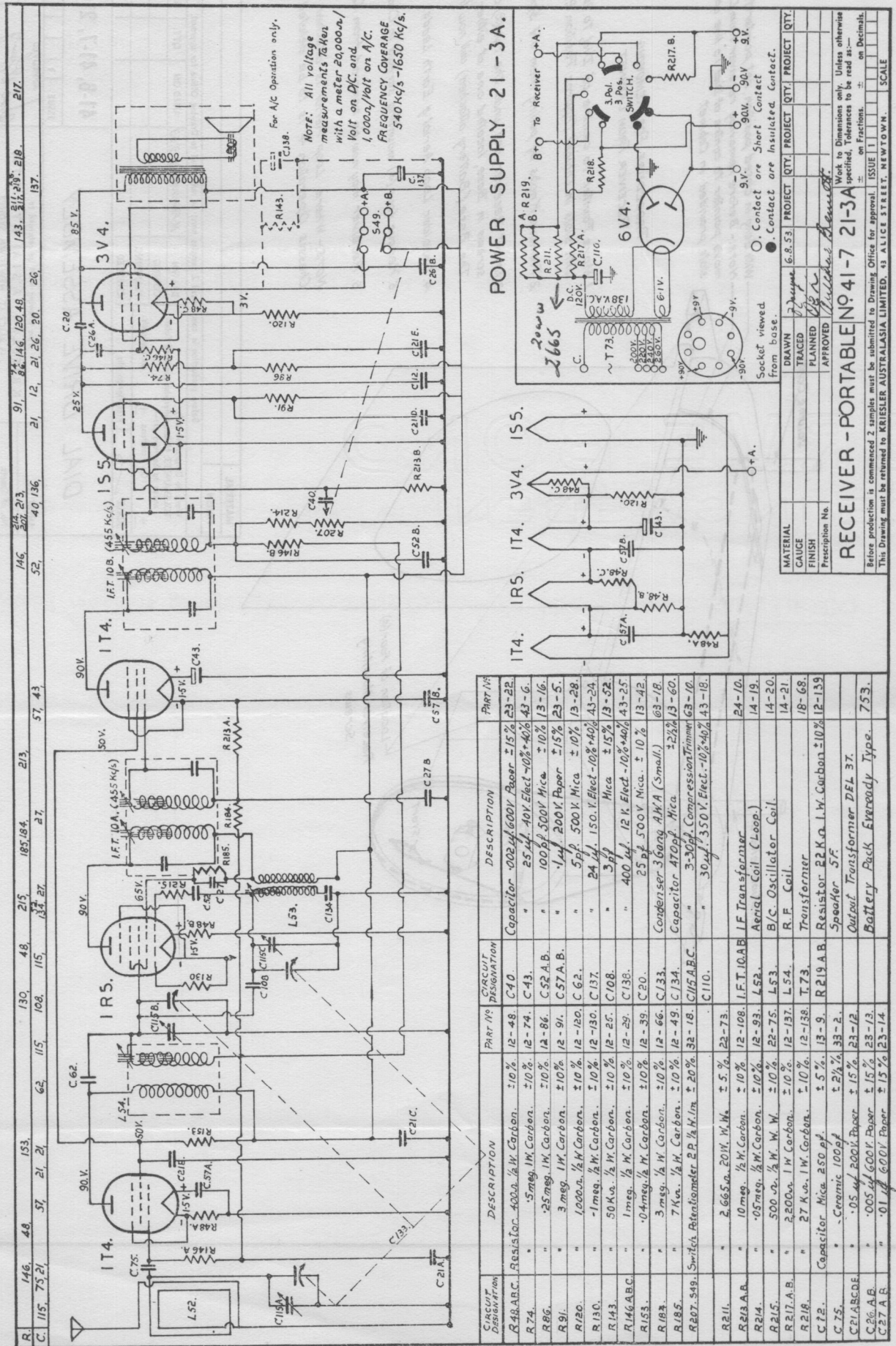
IMPORTANT.—When operating set on A.C. mains. Always turn off at power point.

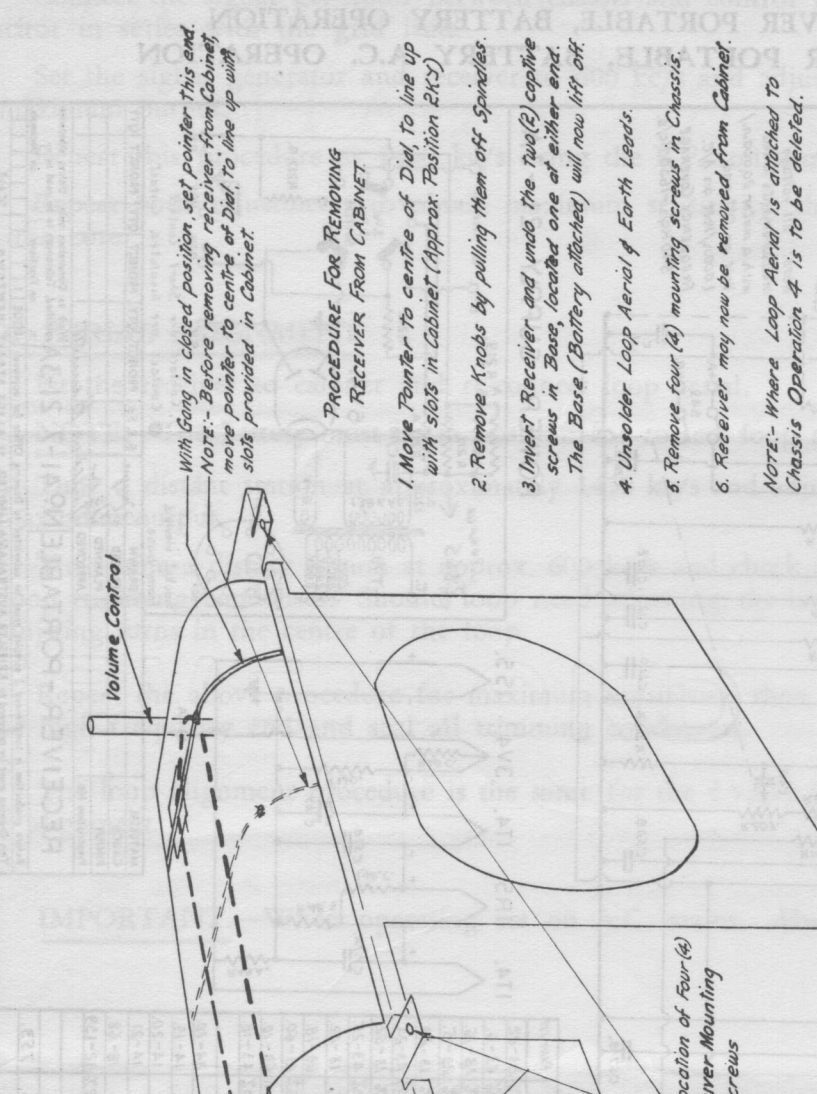
TECHNICAL SERVICE INSTRUCTIONS

ISSUED BY

KRIESLER AUSTRALASIA PTY. LTD.

41-7 RECEIVER PORTABLE, BATTERY OPERATION
21-3A RECEIVER PORTABLE, BATTERY A.C. OPERATION





1. Move Pointer to centre of Dial, to line up with slots in Cabinet (Approx. Position 2K5)
2. Remove Knobs by pulling them off Spindles.
3. Invert Receiver and undo the two (2) captive screws in Base, located one at either end. The Base (Battery attached) will now lift off.
4. Unsolder Loop Aerial & Earth Leads.
5. Remove four (4) mounting screws in Chassis.
6. Receiver may now be removed from Cabinet.

NOTE:- Where Loop Aerial is attached to Chassis Operation 4 is to be deleted.

NOTE:- Where Loop Aerial is attached to Chassis Operation 4 is to be deleted.

MATERIAL	Before production is commenced 2 samples must be submitted to Drawing Office for approval.										
FINISH											
Work to Dimensions only. TOLERANCES: Unless otherwise specified Tolerances to be read as:— + On Fractions. + on Decimals.	DRAWN	CODING	PLANNING	CHECKED	USED ON	QTY.	USED ON	QTY.			
SCALE $\frac{1}{2}$											
DIAL DRIVE ASSEMBLY					41-6, 41-7, 21-2A, 21-3A						
This Drawing must be returned to KRIESLER (A'SIA) PTY. LTD. 43 ALICE ST., NEWTOWN, SYDNEY.					ISSUE		1	APPROVED		Card No.	
SHEET No.					No. of Sheets.						