FL5000A FL5000A/01-/02

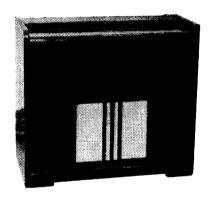
FLEETWOOD RADIO MODEL FL5000A FL5000A/01-/02

NOTE: Models FL5000A, FL5000A/01-/02 differ in respect of record changer type only. Refer to "Specifications."

SPECIFICATIONS

(Subject to alteration without notice)

	(Subject to alteration	on with	iout notice)
Power Supply			200-250V, 40-50 c/s.
Tuning Range	·		530-1620 kc/s.
J			4.7-9.2 Mc/s.
			9.1-18.4 Mc/s.
Intermediate	Frequency		455 kc/s.
Cabinet			Radiogram
Record Chang	ger FL5000A	******	Philips type AG1003
,, ,,	FL5000A/01	*****	,, ,, NG1011
"	FL5000A/02		" AG1014



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts	Cathode Volts
Frequency Converter	VI	6AN7	240 55 68 —			
I.F. Amplifier	V2	6BH5	240 55 — —			
Demodulator, A.V.C. and 1st Audio	V3	6BD7	75			_
Phase Splitter	V4	6BD7	128 — — 23		23	
Push-Pull Power Amplifier	V5	6M5	280 240 — 7.		7.6	
Push-Pull Power Amplifier	V6	6M5	280	240		7.6
Rectifier	V 7	6V4	6V4 Cathode — L18 C.T., 285V.			
Dial Lamps (2), Bezel Lamp	V11, 12, 13	6.3V, 0.32A tubular screw				
Voltage across R2	26, -2.1V.					

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary ± 10% from the figures quoted. They are measured from the socket points indicated to chassis or across the resistors listed. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the mains outlet socket. Remove the four control knobs (a firm pull is all that is necessary). Remove the cabinet back. Remove the aerial and earth terminal panel and unclip the leads from the cabinet.

Remove the pick-up, speaker, gramo. unit power and bezel lamp plugs from their respective sockets. Remove the two screws at the top of the dial back plate and the two screws at the rear of the chassis. The chassis may now be withdrawn from the cabinet.

The replacement of the chassis is a reversal of the above procedure. Care should be taken to see that the front edge of the side chassis flange engages under the lip of the front mounting bracket.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two mains voltage tappings on the primary winding—200/230 volts and 240/250 volts—for adjustment to the supply voltage at the point of installation. The receiver is adjusted at the factory to the 240/250 volts tapping.

DIAL CALIBRATION.

In the event of an equal calibration error over the entire dial scale, the dial cursor can easily be moved on the dial drive cord to correct the error.

ALIGNMENT.

During alignment, set volume control at maximum and tone control at central position. With the tuning capacitor fully closed, set the dial cursor on the 120 mark of the relocation scale.

I.F. channel alignment is carried out in the following sequence:—

Screw out iron core of 2nd I.F.T. primary (nearer 6BH5) as far as possible. Adjust iron cores for maximum output in the following sequence—Peak secondary of 2nd I.F.T. (nearer 6BD7). Peak secondary of 1st I.F.T. (nearer 6BH5). Peak primary of 1st I.F.T. (nearer 6BH5).

Do not repeat any adjustments.

The trimmer layout drawing is shown as an inset on the circuit diagram drawing.

B/c band alignment frequencies are: 1,420 kc/s, 3XY (oscillator and aerial trimmers), and 600 kc/s, 7ZL (slug padding with gang rocking).

On the short wave bands the oscillator operates on a frequency above signal frequency so that of the two signals tunable on the receiver, the high frequency one is correct. In short wave alignment, SW2 band (4.7-9.2 Mc/s) should be done first before attempting alignment of SW1 band.

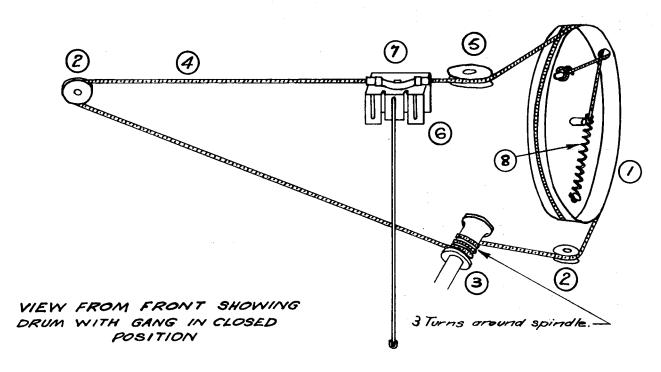
On SW2 band (4.7-9.2 Mc/s) alignment frequencies are: 4.825 Mc/s (114 on relocation scale), (oscillator coil slug) and 8.9 Mc/s (16 on relocation scale), (oscillator and aerial trimmers). Rock the tuning gang while adjusting the aerial trimmer.

SW1 band (9.1-18.4 Mc/s) alignment frequency is 17.8 Mc/s (small green triangle), (oscillator and aerial trimmers, rock gang while adjusting aerial trimmer). Calibration should be checked at 9.65 Mc/s (small green triangle).

Do not attempt to adjust the iron cores of the aerial coils.

MISCELLANEOUS COMPONENTS

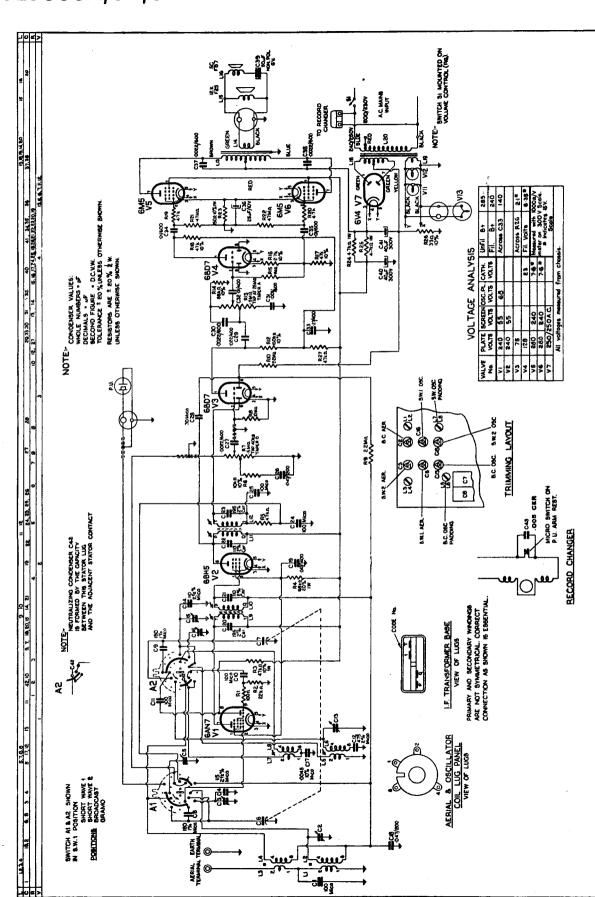
	Dial Cord Drawing	Description	Code No.	No. on D Layout (Description	Code No.
6	Assembly,	cursor	CR.480.664	_	Plug, male	(gramo, unit power)	CZ.365.115
	Assembly,	lampholder, 2x	C/F733-5-4		Plug, 2-pin	polarised (speaker, and bezel lamp)	C/F691-5-1
_	Assembly,	lampholder bezel	CZ.367.920		pick-up a		
3	Assembly,	tuning spindle	CR.371.223	5	Pulley, dial	(large)	CS.359.618
_	Badge, Fle	etwood	CR.531.421	2	Pulley, dial	(small), 2x	CS.359.617
_	Bank, W/	C switch (aerial)	CZ.200.060		Scale, dial		CS.412.395
	Bank, W/	C switch (osc.)	CZ.200.061	•	Socket for	nale (gramo, unit	
	Bezel		CS.430.023		power)	ale (gramo, unit	CZ.365.116
	Clip, sprin	g (knob), 4x	CS.281.832	-		oin polarised (speake and bezel lamp)	r, C/F733-16-1
	Clip, sprin	g (I.F.T. mtg.), 2x	A3.652.58				
4	Cord, dial	drive 69" of	cord required		Socket, val	ve (noval), 7x	C/F733-2-14
1	Drum, dia	1 '	CS.360.006	7	Spring, cur	rsor	CS.212.016
	Knob, con	trol, 4x	CR.523.714	8	Spring, dia	l cord	CS.210.043



FLEET WOOD

Division of Philips Electrical Industries Pty. Limited

FL5000A FL5000A/01-/02



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PARTS LISTS

CAPACITORS			RESISTORS		
No.	Description	Code No.	No.	Description	Code No.
C1, 10, 11, 24, 25	100 pF mica		RI	100 ohms ⅓W carbo	on
C2, 3, 5, 15, 16 C4	30 pF air trimmer	CZ.113.700 CZ.066.138	R2 R3	22,000 ohms ½W carl	oon 10%
C6, 7 C8, 9	2 gang tuning 180 pF mica 1%	CZ.107.755 CZ.065.722	R4 R5, 27	68,000 ohms 1W car 47,000 ohms ½W car	
C12 C13	475 pF mica 2% 60 pF air trimmer	CZ.066.119 49.005.58	R6 R7	10,000 ohms ½W cart	oon 10%
C14 C17	110 pF mica 2½% 0.0045 mF mica 10	CZ.066.140 %		0.5 megohm carbon potentiometer tapp 40,000 ohms with SPST switch	ed at (volume) CZ.032.016
C18, 26	0.047 mF 200V pag		R8	10 megohm ½W carb	on
C19	0.047 mF 400V pag	ber	R9, 10	2.2 megohm ½W carb	on
C20, 21, 22, 23	Part of I.F. transfor	mer	R12	150,000 ohms ½W ca	rbon 10%
C27, 30, 37, 38 C28	0.0022 mF 600V pa	aper	R13	0.5 megohm carbon potentiometer tappe at 0.25 megohm	
C29	0.022 mF 400V pa	per	R14	68,000 ohms ½W carl	oon 10%
C31	0.001 mF 600V pa	per	R15	l megohm ½W carbo	n
C32 C33	0.01 mF 400V pap 0.27 mF 400V pap		R16	2,700 ohms ½W carbo	on 10%
C34, 35	0.01 mF 600V pap	er	R17, 18	47,000 ohms ½W carl	oon 10%
C36	25 mF 10V electrol	<i>'</i>	R19, 20	4,700 ohms ½W carb	on
C39	50 mF 6V non-polar electrolytic	ized CZ.099.870	R21, 22	0.47 megohm ½W ca	rbon
C40, 41	40 mF 350V electro	lytic	R23	150 ohms IW W/V	V 10%
C42	Inbuilt neutralising of refer circuit diagr		R24, 25	4,700 ohms 1W car	bon
C43	0.005 mF ceramic		R26	33 ohms ½W carbon	10%
All tolerances are \pm 20% unless otherwise specified.		All tolerances are ± 20% unless otherwise specified.			

CO	ı	15
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No.	Ohms		Description	Code No.
Ll	19.6-26.4	1	B/C aerial coil CZ.	CZ.323.026
L2	1.5-2.0	•	b/C aeriai con	CZ.323.020
L3	1.2-1.7	,	S/W aerial coil	CZ.323.027
L4	<0.5	3	3/ TY acrial Cuit CZ.323.	
L5	0.8-1.2	į	B/C oscillator coil	CZ.330.613
L6	2.7-3.7	Š	B/C oscinator con	C2.330.013
L7	<0.5	Į	S/W oscillator coil CZ.	CZ.330.614
L8	<0.5	1	37 VV OSCINETOI COII	CZ. 330.07 1
L9	4.7-5.2	į	1st I.F. transformer	A3.126.84
, L10	8.0-9.0	•	13t I.I., transformer	7.5.120.01
LII	8.3-9.2	}	2nd 1.F. transformer	·CZ.320.444
L12	4.7-5.2	•	Ziid III. Wallardiiii.	,0=.0=0.111
L13		}	Output transformer	type KOL53
L14		١	10,000 Ω p-p	CZ.345.043
L15	•		Speaker	type 12K F25
L16			Speaker	type 5C F87
L18	26-36)		
L19	315.425	{	Power transformer	CZ.344.089
L20	<0.5	J		

IMPORTANT! When ordering spare parts, quote CODE NUMBER of part and MODEL NUMBER of Receiver. In claiming free replacement under GUARANTEE, return defective part PROMPTLY and quote MODEL and SERIAL NUMBER of Receiver and DATE OF PURCHASE.