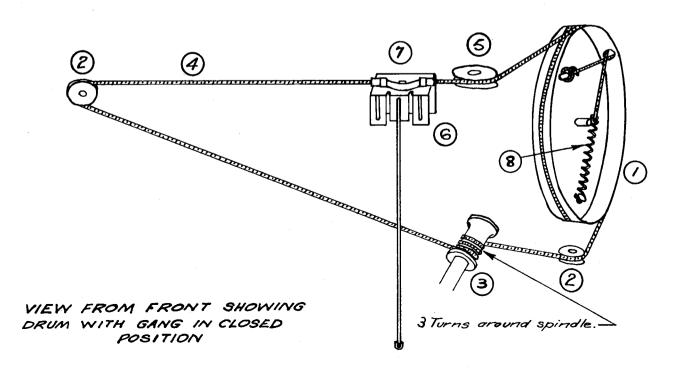
MISCELLANEOUS COMPONENTS

	Dial Cord				Dial Cord	.
Layout	Drawing	Description	Code No.	Layout	Drawing Description	Code No.
6	Assembly,	cursor	CR.480.664		Plug, male (gramo. unit power	CZ.365.115
<u>.</u>	Assembly,	lampholder, 2x	C/F733-5-4		Plug, 2 pin polarised (speake	r
3	Assembly,	tuning spindle	CR.371.223		and pick-up)	C/F691-5-1
_	Badge, Fle	eetwood	CR.531.421	5	Pulley, dial (large)	CS.359.613
	Bank, W/	C switch (aeri	al) CZ.200.060	. <u>.</u>	Pulley, dial (small), 2x	CS.359.612
	Bank, W/	C switch (osc.)	CZ.200.061		Scale, dial	CS.412.395
_	Clip, sprin	ıg (knob), 4x	CS.281.832		Socket, female (gramo. unit power)	CZ.365.116
	Clip, sprir	ng (I.F.T. mtg.), 2x A3.652.58	_	Socket, 2-pin polarised (speal	/or
_	Cloth, baf	ffle	CE.081.14		and pick-up)	C/F733-16-1
4	Cord, dial	drive	69" of cord required		Socket, valve (noval), 6x	C/F733-2-14
1	Drum, dia	il	CS.360.006	7	Spring, cursor	CS.212.016
	Knob, cor	ntrol, 4x	CR.523.714	8	Spring, dial cord	CS.210.043

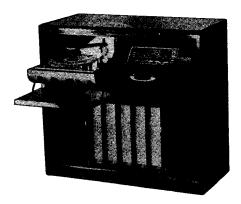


FLEETWOOD RADIO

MODEL 1158 SPECIFICATIONS

(Subject to alteration without notice)

	Coubject	to altera	HOH WILL	out notice/	
Power Supply				200-250V, 40-50 c/	's.
Tuning Ranges				530-1620 kc/s.	
•				4.7-9.2 Mc/s.	
				9.1-18.4 Mc/s.	
Intermediate F	requen	СУ		455 kc/s.	
Cabinet		•		Radiogram	
Gramo Unit				Type AG1000.	



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Voits	Osc. P. Volts
Frequency Converter	VI	6AN7	205	5 7	48
I.F. Amplifier	V2	6BH5	205	57	_
Demodulator, A.V.C. & Audio Amplifier	V3	6BD7	62		_
Push-Pull Power Amplifier	V4	6M5	260	205	\ —
Push-Pull Power Amplifier	V5	6M5	260	205	
Rectifier	V6	6V4 Cathode — L18 C.T., 271V		., 271V.	
Dial Lamps	VII, VI2	6.3V, 0.32A. tubular screw			
	Voltage across	R18, -6.4	V.		

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary \pm 10% from the figures quoted. They are measured from the socket points indicated to chassis or across the resistor 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 and gramo. unit power plugs from their respective sockets. Remove the two screws at the top of the dial back plate and the two screws at the back 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—

Connect 100 pF capacitor from plate of 6BH5 to chassis and peak secondary of 2nd I.F.T. (screw nearer 6BD7).

Transfer 100 pF capacitor to 6BD7 diode to chassis position and peak primary of 2nd 1.F.T. (screw nearer 6BH5).

Remove the detuning capacitor and peak secondary of 1st I.F.T. (screw nearer 6BH5).

Peak primary of 1st 1.F.T. (screw nearer 6AN7). Repeat operations on 1st 1.F.T. ONLY.

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.

RESISTORS

specified.

No.	Description	Code No.	No.	Description	Code No.
C1, 10, 11, 35, 37, 38	100 pF mica		RI	100 ohms ⅓W carbon	
	•		R2	22,000 ohms ½W car	bon
C2, 3, 5, 15, 16	30 pF air trimmer	CZ.113.700	22	47.000 -1 114/ 1	100/
C4	115 pF mica 2½%	CZ.066.138	R3	47,000 ohms 1W carb	on 10%
C6-7	2 gang tuning	CZ.107.746	R4	47,000 ohms 1W carb	oon
C8, 9	180 pF mica 1%	CZ.065.722	R5, 13, 14	47,000 ohms ½W car	bon
C12	475 pF mica 2%	CZ.066.119	(13, 13, 1	, 2	
C13	60 pF air trimmer	49.005.58	R6	0.5 megohm carbon potentiometer, tapp	ed
C14	110 pF mica 2½%	CZ.066.140		at 0.25 megohm, w	
C17	0.0045 mF mica 109	6			
C18, 40	0.05 mF 200V pape	r	R7	12,000 ohms ½W carb	on 10%
C19	0.05 mF 400V paper	•	R8	10 megohms ½W car	bon
C20, 21, 22 23	, Part of I.F. transforn	ners	R9, 21	0.22 megohm ½W ca	arbon
C24	0.03 mF 200V pape	r	R10	I megohm carbon potentiometer	CZ.029.149
C25	0.01 mF 400V pape	r	RII	0.47 megohm ½W ca	rbo n
C26, 28	0.005 mF 600V pap	er			
C27	0.1 mF 400V paper		R12	4,700 ohms ½W carb	on
C29, 30	0.002 mF 600V pa	per	R15, 16	5,600 ohms 1W carb	on 10%
C31, 32	40 mF 350V electro	lytic	R17	470 ohms ½W carbo	n
C33	100 mF 10V electro	lytic	R18	100 ohms 1W W/W	V 10%
C34	500 pF mica				
C36 In-built neutralising capacitor—		R19	4.7 megohms ½W carbon		
	refer circuit diagram drawing		R20	1 megohm ½W carbon	
C39	0.01 mF 600V pape	er .	All toler	ances are ± 20% unles	s otherwise
All tolorar	ces are + 20% unle	se otherwise	1 ,		

CAPACITORS

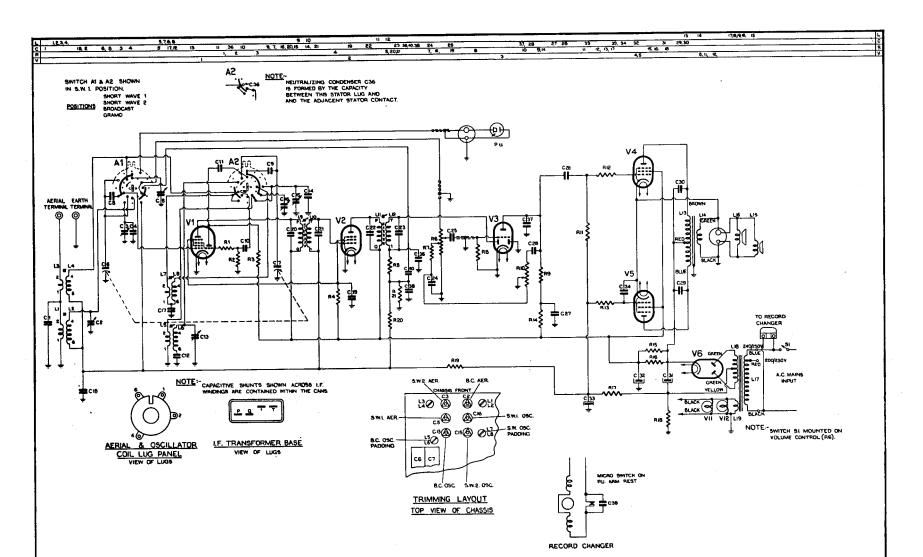
All tolerances are ± 20% unless otherwise

specified.

COI	LS
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No.	Ohms	Description	Code No.
L1 L2	19.6-26.4	B/C aerial coil S/W aerial coil	CZ.323.026
L3 L4	1.2-1.7 <0.5	S/W aerial coil	CZ.323.027
L5 L6	2.7-3.7	B/C oscillator coil	CZ.330.613
L7 L8	<0.5 <0.5	S/W oscillator coil	CZ.330.614
L9 L10		1st I.F. transformer	
L11 L12	11.5-15.5	2nd I.F. transformer	CZ.320.434
L13	,	Output transformer 15,000 ohms p-p	type KOL33
L15		Speaker	type 5C, F87
L16		Speaker	type 12K, F25
L17 L18 L19	26-36 315-425 <0.5	Power transformer	CZ.344.089

IMPORTANT! In 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.



MODIFICATION SHEET

FLEETWOOD RADIO

MODELS 1158A-C-D

NOTE: This sheet should be read in conjunction with the service data sheet for Model 1158.

MODEL 1158A.

This version is the same as Model 1158 except for the use of a Collaro type R.C.54 record changer and the omission of capacitor C39.

MODEL 1158C.

Model 1158C (no Model 1158B was produced) is the same as Model 1158A except for a change in I.F. transformers. Details are—

L9 L10	4.7-5.2 ohms 8.0-9.0 ohms	lst I.F.T.	A3.126.84
L11 L12	8.3-9.2 ohms 4.7-5.2 ohms	2nd I.F.T.	CZ.320.444

Alignment procedure of the I.F. channel is as under-

- Screw out the slug of the primary of the 2nd I.F.T. as far as possible.
- Peak slugs in the following order— Secondary 2nd I.F.T. (nearer V3).
 Secondary 1st I.F.T. (nearer V2).
 Primary 1st I.F.T. (nearer V1).
 Primary 2nd I.F.T. (nearer V2).
- 3. Do not re-adjust any slugs.

Circuit diagram is published overleaf.

MODEL 1158D.

This version is identical with Model 1158C except for the use of a Garrard type R.C.110 record changer and the inclusion of a 0.1 μ F capacitor C.39 across record changer on/off micro switch.

