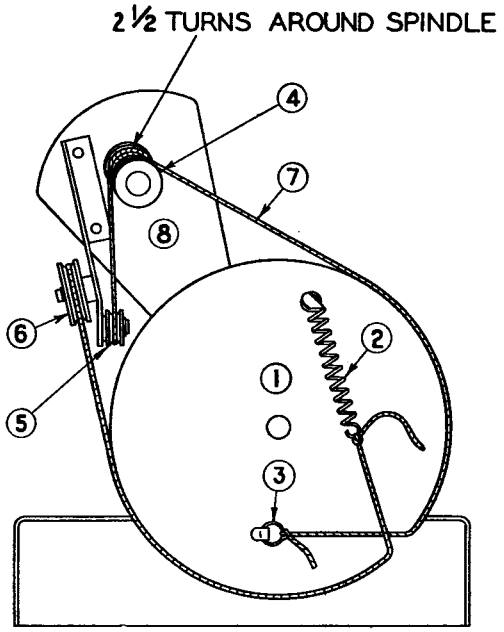
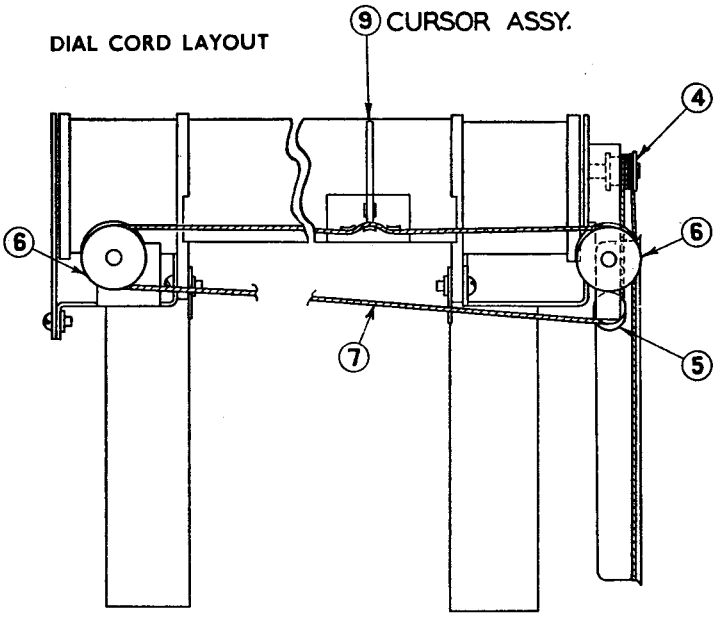
MISCELLANEOUS COMPONENTS

No. on Dial Parts Diagram	Description	Code No.
—	Assembly, carrying handle	CR.523.405
—	Assembly, case end, L.H.	CR.248.017
—	Assembly, case end, R.H.	CR.248.018
—	Assembly, chassis shield	CR.500.407
—	Assembly, clicker (A.C./batt. switch)	CR.450.044
—	Assembly, contact pin	CZ.365.109
9	Assembly, cursor	CR.480.652
—	Assembly, front cover	CR.572.092
—	Assembly, rear cover	CR.572.093
—	Assembly, power plug (blue)	CZ.365.113
—	Assembly, rear cover fastening	CR.115.608
—	Assembly, shutter	CR.572.282
—	Assembly, switch (A.C./batt.)	CZ.200.052
—	Assembly, switch arm	CR.526.005
—	Assembly, switch lever	CR.526.006
—	Assembly, switch sleeve	CR.431.604
4	Assembly, tuning spindle	CR.371.216
—	Badge, Fleetwood, 2x	CR.531.420
—	Baffle	CS.008.246
—	Bank, A.C./batt. switch	CZ.200.514
—	Clip, coil can mtg., 6x	CS.235.833
—	Clip, tuning roller	CH.777.371
—	Clip, volume roller	CH.777.370
—	Cloth, grille	CE.081.92
7	Cord, dial drive	42" of cord required
1	Drum, dial	CS.360.008

No. on Dial Parts Diagram	Description	Code No.
—	Foot, mounting (front), 2x	CS.240.021
—	Foot, mounting (rear), 2x	CS.240.019
—	Link, carrying handle, 4x	CS.365.252
—	Nut, rear foot mtg., 2x	CH.629.201
—	Plug, 5-pin battery	C/F691-6-2
5	Pulley, brass	CS.360.205
6	Pulley, plastic, 2x	CS.359.602
—	Roller, tuning control	CS.381.409
—	Roller, volume control	CS.381.410
—	Scale, dial	CS.412.363
—	Screw, chassis support to case, 2x	CS.258.847
—	Screw, c/sunk (front cover fixing), 2x	CS.259.818
—	Screw, rear cover fastening, 2x	CS.258.834
—	Screw, shutter spring anchor	CS.250.010
—	Socket, valve (7 pin min.), 5x	ST27G
—	Socket, valve (noval)	C/F733-2-13
—	Spacer, link (carrying handle), 4x	CS.213.600
—	Spring, carrying handle, 2x	CS.104.010
2	Spring, dial drum	CS.210.029
—	Spring, shutter	CS.210.024
—	Spring, valve retaining	CS.210.602
—	Support, dial L.H.	CS.217.206
—	Support, dial R.H.	CS.217.205
—	Switch, on/off (battery)	CZ.210.107
—	Switch, on/off (mains)	CZ.210.108
—	Washer, c/sunk (chassis support)	CS.467.055
—	Window, dial	CS.030.008





H&J 6555

FLEETWOOD RADIO

MODEL 1052 C

SPECIFICATIONS

(Subject to alteration without notice)

Tuning Range .... 530-1620 kc/s.

Intermediate Frequency 455 kc/s.

Power Supply—

Batteries .... Types 753, 3753 or 5753 pack; A, 9V; B, 90V.

Mains .... 200-250V 40-50 c/s.

Battery Consumption ..... 14 mA.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts		Screen Volts	
			Batt.	Mains	Batt.	Mains
R.F. Amplifier	V1	1T4	90	97	30	30
Frequency Converter	V2	1R5	90	97	34	35
I.F. Amplifier	V3	1T4	90	97	30	30
Demodulator, A.V.C. and 1st Audio	V4	1S5	20	20	26	26
Power Amplifier	V5	3V4	87	93	90	97
Rectifier	V6	6V4	Cathode to L16 C.T.,-125V			
Voltage across C23 to be within 7.5-8.4 volts — adjustable by selecting R24 from 47,000, 33,000 or 22,000 ohms one watt, or deleting it altogether.						

NOTE: These voltages are measured with an 1,000 ohms per volt meter, except 1S5 plate and screen, which are measured with a V.T.V.M., and may vary ± 10% from the quoted figures. Measurements are made between the socket points indicated and chassis. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CASE.

Remove the power cord from the mains outlet and the receiver. Close the shutter, open the rear cover of the case (the fastening screws are captive and the holes in the cover are slotted) and remove the battery pack. Unsolder the two connections from the chassis to the aerial loop on the tuning control side. Disengage the on/off switch actuating arm from the shutter.

Lay the receiver face downwards on some protective material and from outside the case remove the two top securing screws. Remove the two securing screws and nut plates at the bottom of the chassis. The chassis may now be lifted from the case, but in doing so the power transformer end should be cleared first.

Refitting the chassis to the case is a reversal of the removal procedure. Care should be taken to see that the on/off switch actuating arm is engaged with the shutter before any mounting screws are put into position. The top mounting holes are slotted to allow the chassis to be adjusted to bring the control rollers into correct fitting in the dial cut-out. The screws at the bottom of the chassis should be tightened last.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with three primary winding tappings—200/210 volts, 230/240 volts and 250 volts—for the adjustment of the receiver to the supply voltage at the point of installation. The receiver is adjusted at the factory to the 230/240 volts tapping.

DIAL CALIBRATION ADJUSTMENT.

If dial calibrations are incorrect by an equal amount of error over the band, the condition may be corrected by moving the cursor on the dial driving cord. This may be done through a specially provided slot in the rear of the dial assembly.

ALIGNMENT.

Alignment should be carried out with the receiver operating from the battery pack. The chassis should be removed from the case and the bottom cover shield should be in position.

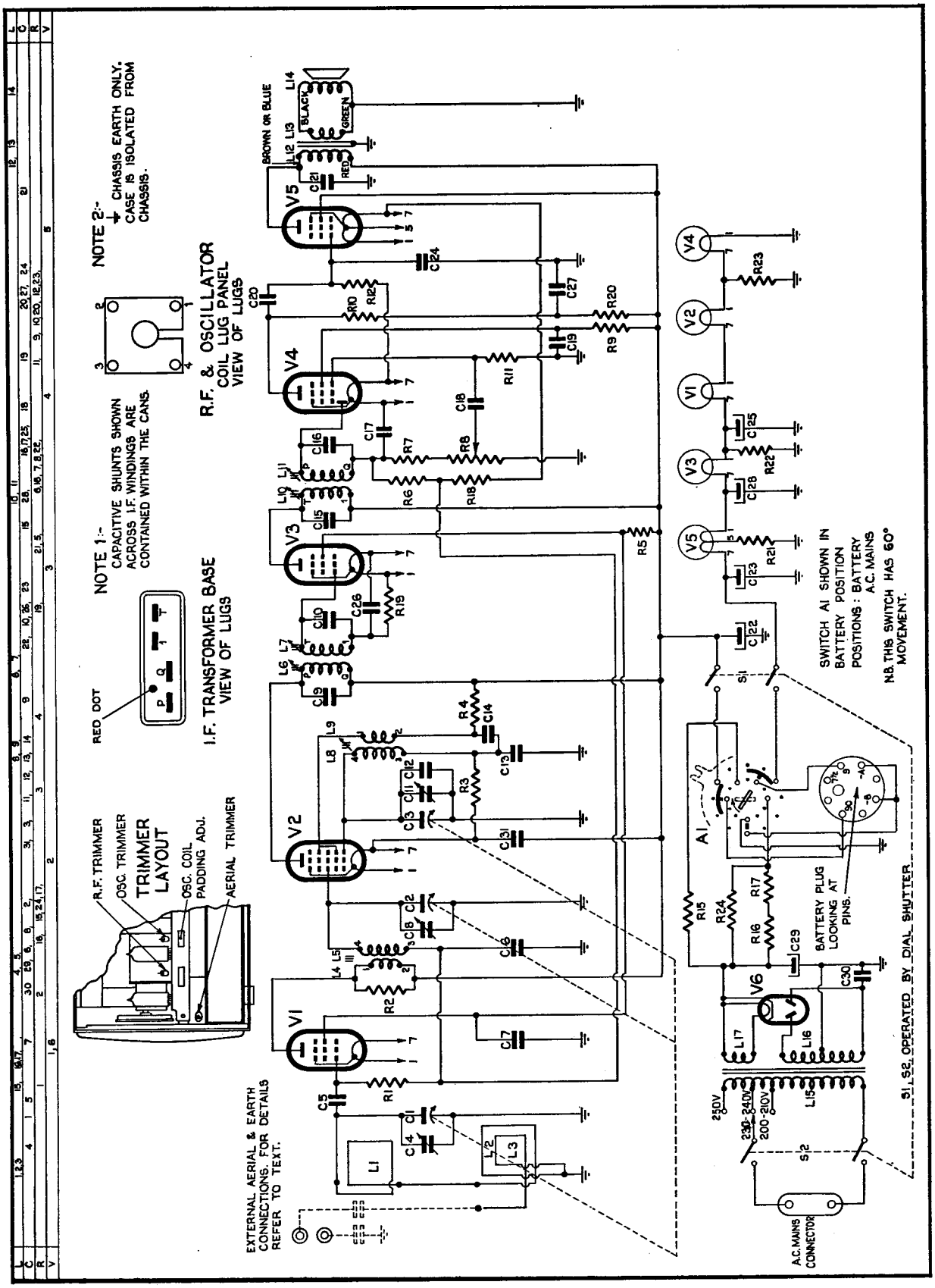
The adjusting screws of the I.F. transformers are located at the tops of the cans. They are adjusted in the order:—

1. Secondary 2nd I.F.T. (screw nearer 1S5).
2. Primary 2nd I.F.T. (screw nearer 1T4).
3. Secondary 1st I.F.T. (screw nearer 1T4).
4. Primary 1st I.F.T. (screw nearer 1R5).

For R.F. alignment use the I.F. dummy. The trimmer layout is shown as an inset to the circuit diagram. Before commencing alignment, set the dial cursor, with the tuning gang fully closed, to the right-hand edge of the state designation numerals. Alignment frequencies are: 600 kc/s (7ZL), adjust oscillator coil core; and 1,420 kc/s (3XY), adjust oscillator and R.F. capacitive trimmers. Signal generator should be applied between V1 signal grid and chassis. **No attempt should be made to adjust the core of the R.F. coil.**

The loop should be adjusted with the chassis fitted to the case, the battery pack in position and the rear cover closed. The signal generator (1,420 kc/s) should be applied through the I.F. dummy in series with a 500 ohms resistor, to the lug strip in the left-hand case end—the lug near the rear cover is aerial. For the purposes of better control the receiver can be desensitised by connecting a 5,000 ohms carbon resistor and a 0.1 mF capacitor in series between V2 signal grid and chassis.

Continued on Page Three.


NOTE 2:-
⏚ CHASSIS EARTH ONLY. CASE IS ISOLATED FROM CHASSIS.
NOTE 1:-
CAPACITIVE SHUNTS SHOWN ACROSS I.F. WINDINGS ARE CONTAINED WITHIN THE CANS.
R.F. & OSCILLATOR COIL LUG PANEL VIEW OF LUGS
I.F. TRANSFORMER BASE VIEW OF LUGS
RED DOT
TRIMMER LAYOUT
R.F. TRIMMER
OSC. TRIMMER
OSC. COIL
PADDING ADJ.
AERIAL TRIMMER
EXTERNAL AERIAL & EARTH CONNECTIONS. FOR DETAILS REFER TO TEXT.
SWITCH A1 SHOWN IN BATTERY POSITION
POSITIONS: BATTERY A.C. MAINS
N.B. THIS SWITCH HAS 60° MOVEMENT.
BATTERY PLUG LOOKING AT PINS.
A.C. MAINS CONNECTOR
S1, S2, OPERATED BY DIAL SHUTTER
BROWN OR BLUE
BLACK
GREEN
RED
V1
V2
V3
V4
V5
V6
A1
S1
S2

CAPACITORS

No.	Description	Code No.
C1, 2, 3	Tuning capacitor	CZ.108.204
C4	50 pF compr. trimmer	
C5	500 pF mica	
C6	0.1 mF 200V paper	
C7, 26,27, 31	0.05 mF 200V paper	
C8, 11	30 pF air trimmer	CZ.113.700
C9, 10	Part of 1st I.F. transformer	
C12	20 pF mica	
C13	525 pF mica 2%	CZ.066.128
C14	0.001 mF mica	
C15, 16	Part of 2nd I.F. transformer	
C17, 24	100 pF mica	
C18, 19, 20	0.01 mF 600V paper	
C21	0.02 mF 400V paper	
C22	24 mF 350V electrolytic	
C23, 28	100 mF 10V electrolytic	
C25	20 mF 10V electrolytic	
C29	50 mF 200V electrolytic	
C30	0.001 mF 600V paper	

All tolerances are 20% unless otherwise specified.

RESISTORS

No.	Description	Code No.
R1, 10, 12	0.47 megohms ½W carbon	
R2, 3, 7	100,000 ohms ½W carbon	
R4	47,000 ohms ½W carbon	
R5	82,000 ohms ½W carbon 10%	
R6, 19	2.2 megohms ½W carbon	
R8	1 megohm carbon potentiometer, reverse taper	CZ.029.305
R9, 18	3.3 megohms ½W carbon	
R11	10 megohms ½W carbon	
R15, 21	2,200 ohms 1W carbon	
R16, 17	1,300 ohms 5W W/W 5%	
R20	220,000 ohms ½W carbon	
R22	1,000 ohms ½W carbon	
R23	470 ohms ½W carbon	
R24	Selected from 1 watt ratings of 47,000, 33,000 and 22,000 ohms to correct filament voltage (refer voltage analysis)	

All tolerances are 20% unless otherwise specified.

COILS

No.	Ohms	Description	Code No.
L1	1.1-1.5	Aerial loop	CZ.333.006
L2	1.1-1.5	Aerial loop	CZ.333.007
L3	<0.5		
L4	9.5-12.5	R.F. coil (1 red and 1 blue spots)	CZ.323.228
L5	2.1-2.9		
L6	11.5-15.5	I.F. transformer (step-up)	CZ.320.433
L7	12.5-16.5		
L8	2.5-3.5	Oscillator coil (1 blue spot)	CZ.330.602
L9	0.8-1.2		
L10	12.5-16.5	I.F. transformer (step-down)	CZ.320.433
L11	11.5-15.5		
L12	410-550	Output transformer	CZ.345.010
L13	<0.5		
L14	3.1-4.1	Speaker	CZ.161.124 or CZ.161.133
L15	150-200	Power transformer	CZ.344.075
L16	380-520		
L17	<0.5		

Continued from Page One.

REPLACEMENT OF TUNING SPINDLE AND/OR ROLLER AND/OR DIAL SUPPORT MOULDING.

It is necessary to remove the dial assembly from the tripod supporting bracket for this operation. To remove the tuning spindle remove the retaining clip and withdraw the spindle. The roller may now be removed. At this stage the dial support moulding may be readily removed.

EXTERNAL AERIAL AND EARTH.

For improved signal pick-up in difficult areas an external aerial and earth may be used. Pin contacts are provided in the left-hand case end for making these connections. It is first necessary though that they be connected to the loop. This should be done through an 0.001 mF 600V paper capacitor in each lead. The lug nearer to the rear cover is the aerial on the lug strip mounted in the case end.

REPLACEMENT OF VOLUME CONTROL ROLLER AND/OR POTENTIOMETER AND/OR SUPPORT MOULDING.

These operations may be performed without the need to remove the dial assembly.

Remove the retaining clip and spring for the on/off switch actuating arm and remove the on/off switches. Unscrew the potentiometer mounting plate and withdraw the plate, potentiometer and roller. The roller is a friction fit on the spindle and may be removed with a firm pull.

The left-hand dial support moulding may now be removed by unscrewing.

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.