

# PHILIPS

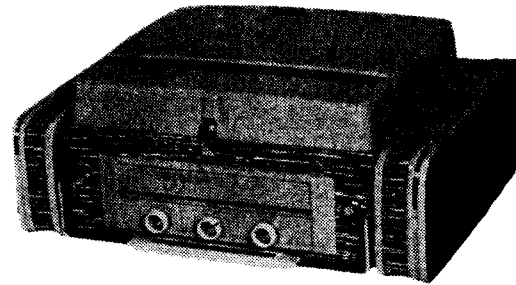
## PHONOGRAM - Model NG 1029

## RADIO PHONOGRAM - Model NG 1030

### SPECIFICATIONS

(Subject to alteration without notice.)

Power Supply	.....	.....	200/250V, 40-50 c/s
Tuning Range (NG1030)	.....	.....	530-1620 Kc/s
Intermediate Frequency (NG1030)	.....	.....	455 Kc/s
Cabinet	.....	.....	Wood, Vinyl Covered with Plastic Lid
Record Player (4-speed Stereo)	.....	.....	NG1009
Pick-up Head (Stereo-Micro, 78 r.p.m.)	.....	.....	AG3301
Counterweight for Pick-up Arm	.....	.....	NG1033
Power Consumption (Total), NG 1029	.....	.....	35W approx.
			NG 1030 43W approx.



MODEL NG 1029



MODEL NG 1030

### VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts	Cathode Volts
Frequency Converter	(1030) V1	6AN7	208	45	65	
I.F. Amplifier A.V.C. & Demodulator	(1030) V2	6N8	208	45		
Audio Amplifier	(1029) V3A (1030)	6DX8	102 92			
Power Amplifier	(1029) V3B (1030)		231 217	229 208	3.6 3.2	
Audio Amplifier	(1029) V4A (1030)	6DX8	102 92			
Power Amplifier	(1029) V4B (1030)		231 217	229 208	3.6 3.2	
Rectifier	(1029) V5 (1030)	6V4	230/230 A.C.			
Dial Lamps (2)	(1030) V11, 12	8008D.	6.3V. 0.15A Tubular screw.			
Voltage across C22:		(1029) 238V. (1030) 226V.	Filament Volts, 6.3V.			

NOTE: Voltages are "20,000Ω per volt" meter readings and may vary ± 10% from the figures quoted. They are measured from the socket points indicated to chassis or across the condenser listed. The receiver should be in a "no signal" condition.

#### MAINS VOLTAGE ADJUSTMENT.

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

#### TO REMOVE CHASSIS FROM CABINET.

Remove lid from cabinet. Remove turntable from record player and unscrew four plastic screws securing motor board to mounting springs. Initially move motor

board forward sufficiently to enable the rear end to be released, finally withdraw board from cabinet.

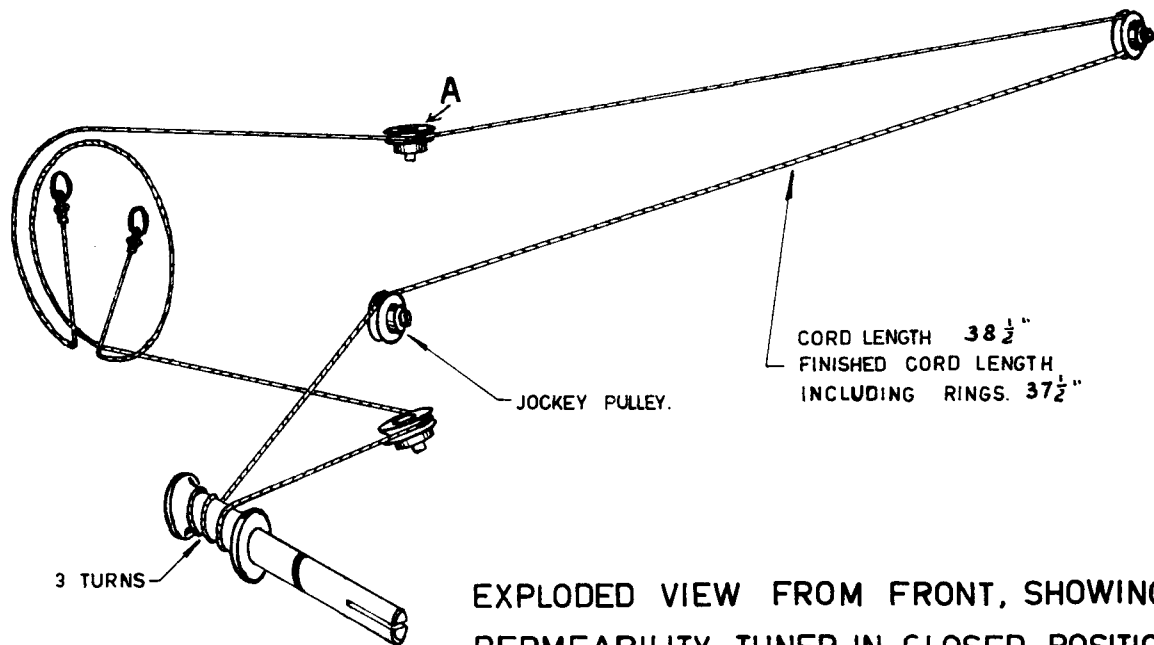
Detach pick-up and power leads to record player, speaker leads and aerial/earth leads from their respective terminating lug strips. The four screws securing the rubber buffers to cabinet base also retain the chassis in position. Removal of screws facilitates withdrawal of chassis complete with dial, escutcheon, knobs, etc. During chassis withdrawal, feed the power lead through entry hole in cabinet.

NOTE: Reference to dial and aerial/earth leads applies to NG1030 only.

**MISCELLANEOUS COMPONENTS**

Description	Type or Code No.	Description	Type or Code No.
Assy., baffle, R.H. beige (inc. baffle, silk, shock trim)	CR.005.808	Assy., spring motor board mtg.	49.946.94
Assy., baffle, R.H. grey (inc. baffle, silk, shock trim)	CR.005.809	(NG1030) Assy., tuning spindle	CR.571.108
Assy., baffle, L.H. beige (inc. baffle, silk, shock trim)	CR.005.810	Bracket, handle securing x2	CS.233.637
Assy., baffle L.H. grey (inc. baffle, silk, shock trim)	CR.005.811	Buffer, rubber x8, beige	CS.423.032
Assy., cabinet, beige (Less Speaker Box & Lid)	CR.574.011	Buffer, rubber, x8 grey	CS.423.033
Assy., cabinet, grey (Less Speaker Box & Lid)	CR.574.012	(NG1030) Cord, dial (bulk)	06.606.28
Assy., cab. lid, beige	CR.577.065	(NG1030) Drum, dial	CS.360.015
Assy., cab. lid, grey	CR.577.066	(NG1029) Escutcheon, front panel, grey	CS.430.995
(NG1030) Assy., cursor	CR.480.676	(NG1029) Escutcheon, front panel, fawn	CS.430.994
(NG1029) Assy., handle	CR.523.212	(NG1030) Escutcheon, front panel	CS.430.077
(NG1030) Assy., handle	CR.523.211	(NG1030) Knob x4	CR.523.779
Assy., speaker cover R.H., beige (Plastic)	CR.571.839	(NG1029) Knob x3	CR.523.779
Assy., speaker cover, R.H. grey (Plastic)	CR.571.840	(NG1029) Name, PHILIPS, grey	CS.436.485
Assy., speaker cover, L.H., beige (Plastic)	CR.571.841	(NG1029) Name, PHILIPS, fawn	CS.436.486
Assy., speaker cover, L.H., grey (Plastic)	CR.571.842	Pad, turntable pressure	CS.424.246
		Rivet, special x2 (handle securing)	CS.275.013
		(NG1030) Scale, dial	CS.412.442
		(NG1030) Socket, lamp x2	C/F733-8-7
		(NG1030) Spring, dial cord	CS.210.045
		(NG1029) Strip, decorative escutcheon	CS.430.701
		(NG1030) Switch, push button	A3.298.48

**NG 1030 MODEL ONLY**



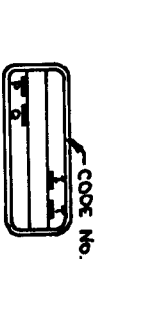
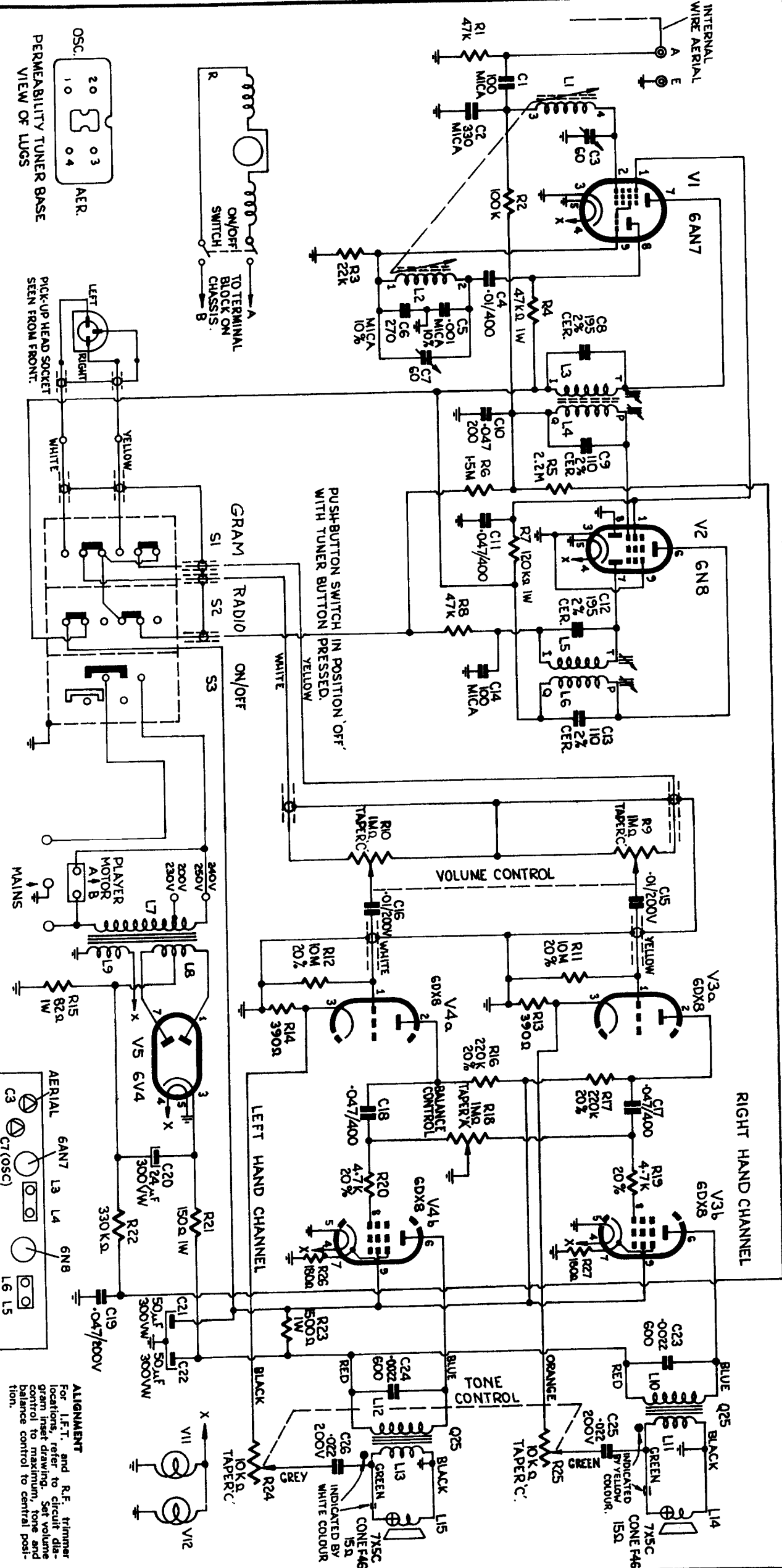
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MODEL NG 1030

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	L
C	1	2	3	4	5	6	7	8	9,10	11,12,13,14	15,16	17,18	19,20	21	22,23	24	25,26										C
R	1	2	3	4	5	6	7	8	9,10	11,12,13,14	15,16	17,18	19	20	21,22	23	24,25									R	
V	1	2	3	4	5	6	7	8	9,10	11,12,13,14	15,16	17,18	19	20	21,22	23	24,25									V	

NG 1029  
NG 1030



CODE No.

1. CAPACITOR VALUES:  
WHOLE NUMBERS - pF  
DECIMALS -  $\mu$ F  
SECOND FIGURE - D.C.V.M.  
TOLERANCE  $\pm$ 20% UNLESS  
OTHERWISE SHOWN.

2. RESISTORS ARE  $\pm$ W 10%  
UNLESS OTHERWISE SHOWN.

VALVE No	PLATE VOLTS	SCREEN VOLTS	OSC. PLATE VOLTS	CATH. VOLTS
V1 6AN7	208	45	65	
V2 6N8	208	45		
V3a TRIODE 6DX8	92	208		3-2
V3b PENTODE 6DX8	217	208		
V4a TRIODE 6DX8	92			3-2
V4b PENTODE 6DX8	217	208		
V5 6V4	230/230 AC			238

ACROSS C22 = 226 VOLTS ACROSS R15 = 3.6 VOLTS  
MEASURED WITH 20,000 $\Omega$ /V VOLT METER. POS. RADIO 240V A.C. MAINS

**TRIMMER LAYOUT**  
TOP VIEW OF TUNER CHASSIS

**R.F. ALIGNMENT**  
Set tuner to fully in position and adjust the cursor to position between two vertical white lines situated top extreme right-hand side of calibrated scale.  
Use a standard dummy aerial and apply a modulated R.F. signal to receiver aerial and earth leads.  
Alignment frequencies are as follows, commencing with tuner fully in 530 Kc/s peak oscillator trimmer (C7).  
1,500 Kc/s (3AK) peak aerial trimmer (C3).

**ALIGNMENT**  
For I.F.T. and R.F. trimmer locations, refer to circuit diagram inset drawing. Set volume control to maximum, tone and balance control to central position.

**I.F. ALIGNMENT**  
Set permeability tuner fully out. Apply a modulated 455 Kc/s signal via an 0.01  $\mu$ F capacitor to control grid (pin 2) of V1 and peak I.F. coils in the following sequence:-

PARTS LIST

CAPACITORS

No.	Description	Code No.
C1	(NG1030) 100pF mica	
C2	" 330pF mica	49.005.58
C3	" 60pF trimmer	
C4	" 0.01μF 400V paper	
C5	" 0.001μF ± 10% mica	
C6	" 270pF ± 10% mica	
C7	" 60pF air trimmer	49.005.58
C8, 9	" Part of 1st I.F. transformer	
C10	" 0.047μF 200V paper	
C11	" 0.047μF 400V paper	
C12, 13	" Part of 2nd I.F. transformer	
C14	" 100pF mica	
C15	(NG1029/30) 0.01μF 200V paper	
C16	" 0.01μF 200V paper	
C17	" 0.047μF 400V paper	
C18	" 0.047μF 400V paper	
C19	(NG1030) 0.047μF 200V paper	
C20	(NG1029/30) 24μF 300VW electrolytic	Ducon E05C
C21 } }	50μF 300VW electrolytic	Ducon ECD404
C22 } }	50μF 300VW electrolytic	
C23	" 0.0022μF 600V paper	
C24	" 0.0022μF 600V paper	
C25	" 0.022μF 200V paper	
C26	" 0.022μF 200V paper	

All tolerances are ± 20% unless otherwise specified.

RESISTORS

No.	Description	Code No.
R1	(NG1030) 47kΩ ½W carbon	
R2	" 100kΩ ½W carbon	
R3	" 22kΩ ½W carbon	
R4	" 47kΩ 1W carbon	
R5	" 2.2MΩ ½W carbon	
R6	" 1.5MΩ ½W carbon	
R7	" 120kΩ 1W carbon	
R8	" 47kΩ ½W carbon	
R9 } }	Ganged potentiometer, 2 x 1MΩ taper 'C' (volume)	CZ.032.603
R10 } }		
R11	" 10MΩ ± 20% ½W carbon	
R12	" 10MΩ ± 20% ½W carbon	
R13	" 390Ω ½W carbon	
R14	" 390Ω ½W carbon	
R15	(NG1030) 82Ω 1W carbon	
R16	(NG1029/30) 220kΩ ± 20% ½W carbon	
R17	" 220kΩ ± 20% ½W carbon	
R18	" 1MΩ potentiometer taper 'A'	
R19	" 4.7kΩ ± 20% ½W carbon	
R20	" 4.7kΩ ± 20% ½W carbon	
R21	" 150Ω 1W carbon	
R22	(NG1030) 330kΩ ½W carbon	
R23	(NG1029/30) 1.5kΩ 1W carbon	
R24 } }	Ganged potentiometer,	CZ.029.341
R25 } }	2 x 10kΩ taper 'C' (tone)	
R26	" 180Ω ½W carbon	
R27	" 180Ω ½W carbon	

All tolerances are ± 10% unless otherwise specified.

INDUCTORS

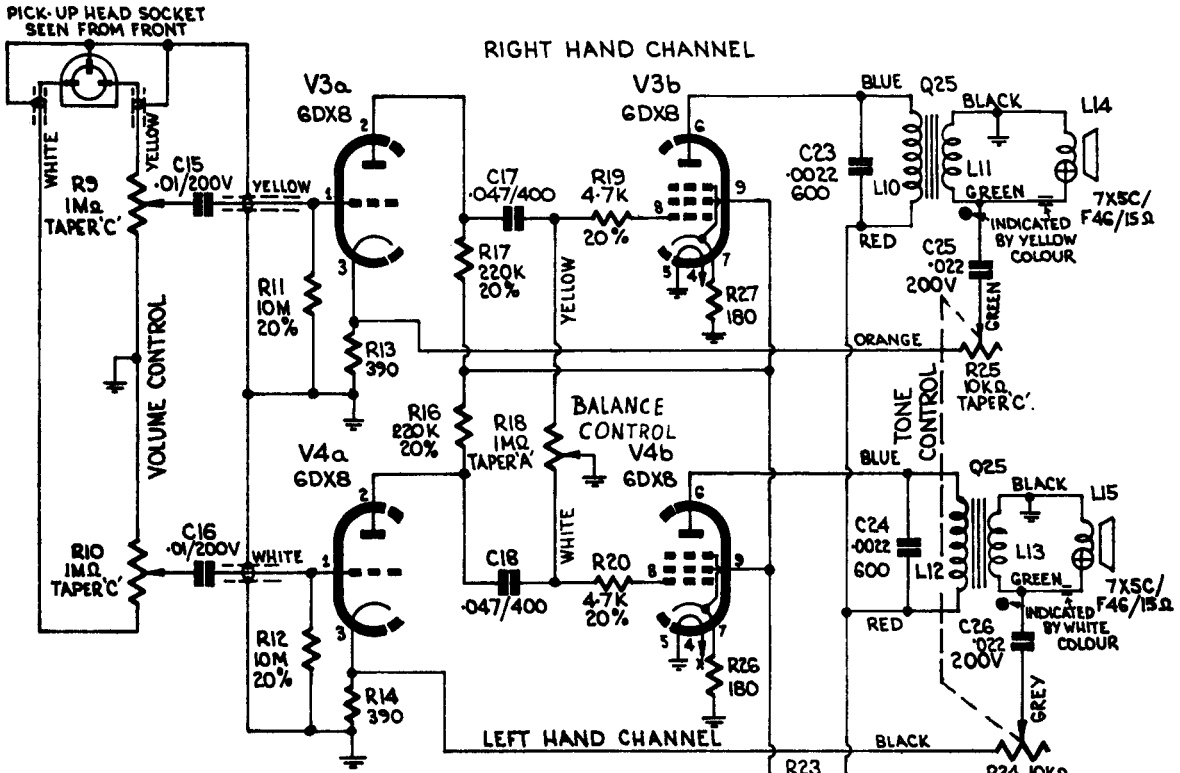
No.	D.C. Resistance Ohms	Description	Type or Code No.
L1	(NG1030) 15-16	Permeability tuner	CZ.109.002
L2	5.8-6.2		
L3	(NG1030) 4.7-5.2	1st I.F. transformer	A3.126.84
L4	8.0-9.0		
L5	(NG1030) 4.7-5.2	2nd I.F. transformer	A3.126.84
L6	8.0-9.0		
L7	59-72	Power transformer	CZ.344.133
L8	(NG1029/30) 650-800		
L9	<0.5		
L10	(NG1029/30)	Output transformer	Rola type Q25 CZ.345.073
L11			

All tolerances are ± 20% unless otherwise specified.

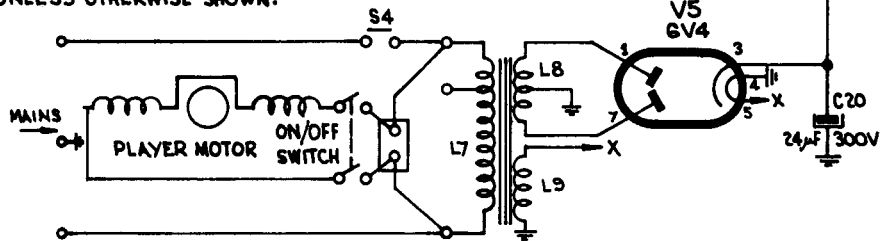
IMPORTANT! When ordering spare parts, quote CODE NUMBER of part and MODEL NUMBER of Receiver. In claiming free replacement under GUARANTEE, return defective part PROMPTLY and quote MODEL and SERIAL NUMBER of Receiver and DATE OF PURCHASE.

MODEL NG 1029

L								7	8,9	10	11,12	13	14	15	L
C		15,16				17,18			21	22,23	24	25	26	20	C
R	9,10		11,12	13	14	16,17	18	19,20	26,27	23		21	25,24		R
V			3a, 4a					36,46				5			V



- NOTES :
- 1 CAPACITOR VALUES  
DECIMALS -  $\mu$ F  
SECOND FIGURE - D.C.V.V.  
TOLERANCE  $\pm 20\%$  UNLESS  
OTHERWISE SHOWN.
  - 2 RESISTORS ARE  $\frac{1}{2}$  W  $10\%$   
UNLESS OTHERWISE SHOWN.



VALVE No.	PLATE VOLTS	SCREEN VOLTS	CATH. VOLTS	ACROSS C20	246
V3a	102	-	-	ACROSS C22	238
V3b	231	229	3.6	ALL VOLTAGES MEASURED FROM CHASSIS. WHERE NOT OTHERWISE STATED $\pm 10\%$	
V4a	102				
V4b	231	229	3.6		
V5	230 / 230	A.C.		MEASURED WITH 20,000 $\Omega$ VOLT METER.	