



HIS MASTER'S VOICE

Service Sheet

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CLYDE *and HOVE*

526D/RG

A six valve superheterodyne receiver in a console cabinet, the gramophone unit being either a B.S.R. type GU4 3 speed single player, or a Plessey multi-speed automatic record changer.

In the receiver chassis local tubes are used throughout, and inverse feedback is provided over the output stage.

Changeover from radio to gram. is on the third position of the wave-band switch.

CONTROLS. Tuning and wave-change at right hand end of cabinet. Volume and Tone control—ON-OFF at left-hand end of cabinet.

VALVE COMPLEMENT: RF, 7B7; Mixer, 7S7; IF, 7B7; Det. Audio, 7C6; Power Output, 7C5; Rectifier, 7Y4.

VALVE SOCKET VOLTAGES: Measured to chassis.

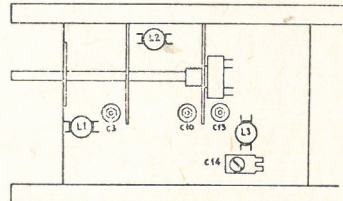
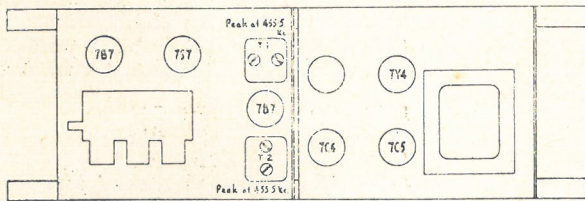
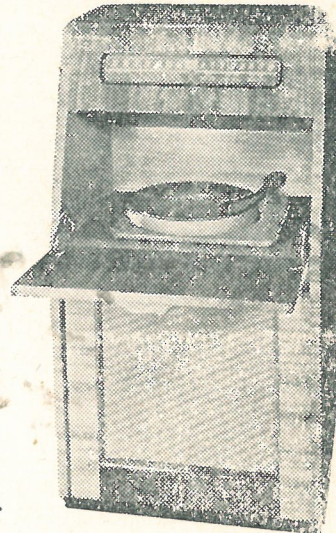
| | | | | | | |
|-----|---------------|-------|-------|-----------------------------|-----|-----|
| 7B7 | RF. Amplifier | ..... | ..... | 230 | 60 | 1.2 |
| 7S7 | Mixer | ..... | ..... | 230 | 60 | — |
| 7B7 | IF. Amplifier | ..... | ..... | 230 | 60 | 1.2 |
| 7C6 | Det. Audio | ..... | ..... | 80 | — | — |
| 7C5 | Output | ..... | ..... | 230 | 230 | 13 |
| 7Y4 | Rectifier | ..... | ..... | — | — | 295 |
| 7S7 | Triode Plate | ..... | ..... | 115 Volts (Non Oscillatory) | — | — |

Voltmeter 1000 ohms per volt. Volume control off. No signal. On gram. the 7C5 plate and screen voltages rise approximately 5%.

FREQUENCY RANGE: Broadcast 530 Kc/s — 1700 Kc/s
Short Wave 5.92 Mc/s — 19 Mc/s

POWER SUPPLY: 230 Volts AC 50 cycles
Consumption: Receiver .23 amp.
B.S.R. Single Player .12 amp.
Plessey Auto-Changer .16 amp.

CABINET DIMENSIONS: Height: 2ft. 11 1/2 in.; Width: 20 in.; Depth: 16 1/2 in.



ALIGNMENT INSTRUCTIONS

To align the RF circuits speedily, the use of the H.M.V. alignment scale is recommended.

Slip the scale between the pointers and dial back plate, securing with small clamps or adhesive tape.

When the chassis is replaced in the cabinet, any small discrepancy in the relative positions of the pointers and the dial markings may be corrected by slacking off the dial drum set screws and rotating the drum on the gang shaft.

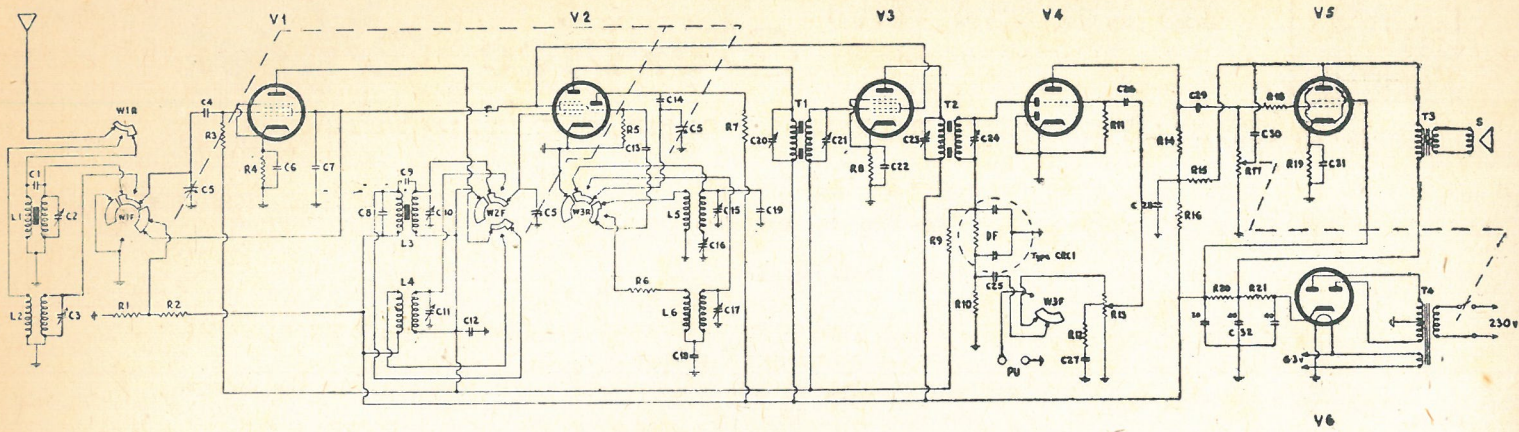
Rotate the tuning control until the gang rotor is full in, then set the dial pointers on their respective arrow marks at the left hand end of each scale. Set output meter range selector to 50 milliwatts and connect to speaker voice coil. Turn receiver volume control on full, then, as successive adjustments to the trimmers increase receiving output reduce signal generator output to give approximately half scale deflection on the output meter..

For IF alignment use a .1 mfd condenser on the generator cable, for RF use a standard dummy antenna.

| Feed Sig. Gen To | Set Sig. Gen To | Radio Dial Setting | Adjust | Adjust For |
|----------------------------|-----------------|-----------------------|------------------------|-------------|
| 1. C5 (Centre Gang Stator) | 455 Kc | 1500 Kc | C24, C23, C21, C20 | Max. Output |
| 2. Aerial Lead | 600 Kc | 600 Kc 'Rock Gang' | C16 | Max. Output |
| 3. Aerial Lead | 1400 Kc | 14 Kc | C15 first then C10, C2 | Max. Output |
| 4. Aerial Lead | 18 Mc | 18 Mc | C17 first then C11, C3 | Max. Output |

Repeat 2 and 3

526D RG

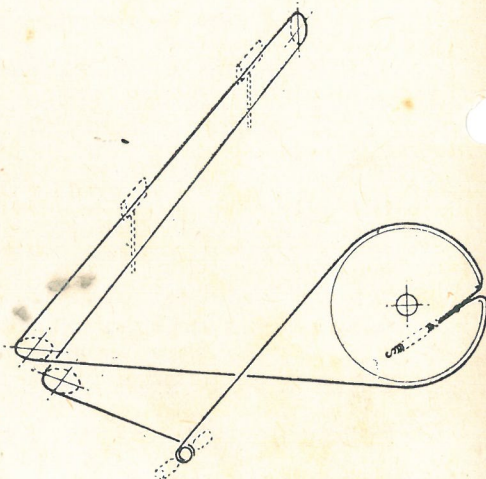


SWITCH WAFERS SHOWN WITH CONTACT GROUPS SEPARATED, ACCORDING TO FUNCTION.
 WAJERS SHOWN IN POSITION 1, EXTREME COUNTER-CLOCKWISE VIEWED FROM CLICKER END OF SHAFT.
 POSITION 1 : B.C.
 POSITION 2 : S.W.
 POSITION 3 : GRAM
 W1F : FRONT CONTACTS OF WAFER NEXT TO CLICKER
 W1R : REAR CONTACTS OF THE SAME WAFER CONTINUED IN THE SAME WAY TO W3R.

CIRCUIT DIAGRAM

52 - B - 42

DUAL WAVE.



CONDENSERS

| Part No. | Store | Description |
|---------------|----------|--------------------------|
| C1, 9 | 1500—P1 | 2 pfd ceramicon |
| C2, 3, 10, 11 | 1500—F5 | 3/30 pfd Philips trimmer |
| C 15, 17 | 1500—F5 | 3/30 pfd Philips trimmer |
| C4, 14, 30 | 1500—E | .00005 mfd mica |
| C5 | 1500—R5 | 3-gang 'Polar' C1043 |
| C6, 12 | 1500—A7) | .05 mfd 350v |
| C22 29 | 1500—A7) | .1 mfd 350 v |
| C7 | 1500—J1 | 10 pfd ceramicon |
| C8 | 1500—H | .0001 mfd mica |
| C13 | 1500—Q | Padder TPSD |
| C16 | 1500—O8 | .006 mfd S. mica |
| C18 | 1500—S | Dual trimmer base |
| C20, 21 | 1500—I2) | 10 mmf ceramicon |
| C23, 24 | 1500—I2) | .02 mfd 350v |
| C19 | 1500—H | .001 mfd mica |
| C25 | 1500—K2 | .01 mfd 350v |
| C26, 33 | 1500—A4 | .25 mfd 750 w.v. |
| C27 | 1500—B5 | 25 mfd 25v |
| C28 | 1500—B8 | 40-40-20 electro |
| C31 | 1500—O5 | |
| C32 | 1500—N4 | |

RESISTORS

| Part No. | Store | Description |
|----------------|---------|------------------|
| R1, 2 | 1300—L1 | 25k 1 watt |
| R3 | 1300—I5 | 1 meg 1/4 watt |
| R4, 8 | 1300—S | 220 ohm 1/2 watt |
| R5, 12, 16, 18 | 1300—G2 | 50k 1/2 watt |
| R6 | 1300—D | 45 ohm 1/2 watt |
| R7 | 1300—L7 | 27k 1 watt |
| R9 | 1300—J1 | 2 meg 1/2 watt |
| R10, 14, 15 | 1300—K4 | 250k 1/2 watt |
| R11 | 1300—J9 | 5 meg. 1/2 watt |

Store

| Part No. | Description |
|----------|----------------------------|
| PO 223 | 1 meg. tapped pot |
| PO 213 | 1/2 meg. pot. with switch |
| 1300—A5 | 330 ohm 1 watt |
| 1300—L6 | 1000 ohm 1 watt |
| 1300—B8 | 750 ohm 4 watt w.w. |
| 1400—Q9 | 7B7 RF |
| 1400—R2 | 7S7 Mixer |
| 1400—Q9 | 7B7 IF |
| 1400—R1 | 7C6 Det. Audio |
| 1400—R | 7C5 Output |
| 1400—R3 | 7Y4 Rectifier |
| CO 384 | Aerial coil BC |
| CO 387 | Aerial coil SW |
| CO 385 | R.F. Coil BC |
| CO 388 | R.F. Coil SW |
| CO 386 | Osc. Coil BC |
| CO 389 | Osc. Coil SW |
| TR28 | 1st IF transformer |
| TR 29 | 2nd IF transformer |
| SP 595 | Output xfmr + M.M.V. ellip |
| TR 613 | Power |
| WA 191 | Wafer Oak Sect. 1 |
| WA 192 | Wafer Oak Sect. 2 |
| WA 193 | Wafer Oak Sect. 3 |
| FI 1310 | Diode Filter—Dubilier |

| Part No. | Description |
|----------|---------------------------|
| R13 | 1 meg. tapped pot |
| R17 | 1/2 meg. pot. with switch |
| R19 | 330 ohm 1 watt |
| R20 | 1000 ohm 1 watt |
| R21 | 750 ohm 4 watt w.w. |
| VALVES | |
| V1 | 1400—Q9 |
| V2 | 1400—R2 |
| V3 | 1400—Q9 |
| V4 | 1400—R1 |
| V5 | 1400—R |
| V6 | 1400—R3 |
| L1 | CO 384 |
| L2 | CO 387 |
| L3 | CO 385 |
| L4 | CO 388 |
| L5 | CO 386 |
| L6 | CO 389 |
| T1 | TR28 |
| T2 | TR 29 |
| T3 | SP 595 |
| T4 | TR 613 |
| W1F | WA 191 |
| W2F | WA 192 |
| W3F | WA 193 |
| DF | FI 1310 |