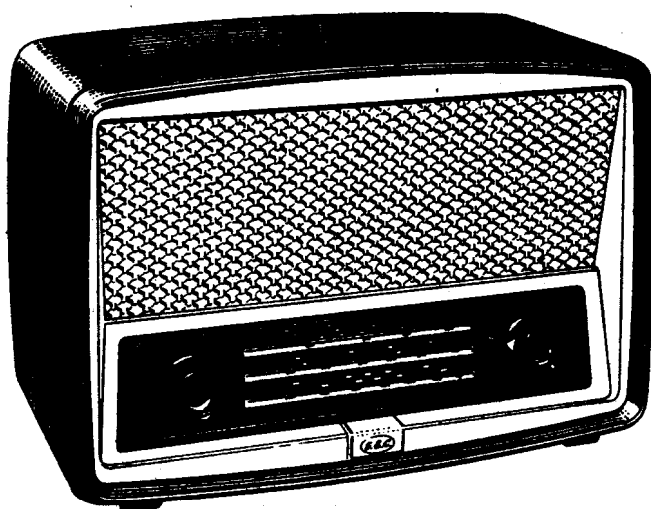


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BC5645 V.H.F./F.M. RADIO RECEIVER

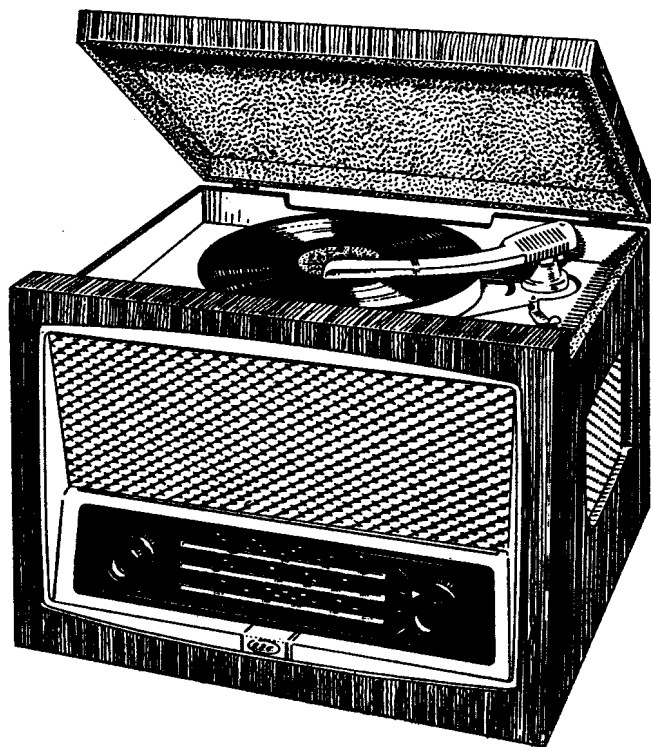
BC7445 V.H.F./F.M. TABLE RADIOGRAMPHONE

(Home models)



BC5645

7 valves, A.C. mains, F.M./A.M. superheterodyne receiver. Gramophone pick-up terminals. Internal F.M., M.W. and L.W. aerials.



BC7445

7 valves, A.C. mains, F.M./A.M. superheterodyne table radiogramophone, fitted with Collaro 4/564 four speed player and crystal turnover pick-up.

Internal F.M., M.W. and L.W. aerials.

SPECIFICATION

| | | |
|---|--|---|
| POWER SUPPLIES | 200—250 volts, 40—100 c/s, A.C. mains | |
| POWER CONSUMPTION (approximate) | BC5645 | 50 watts |
| | BC7445 | 64 watts |
| WAVEBANDS | V.H.F. (F.M.) | 87.5—100 Mc/s |
| | Medium | 187 — 545 metres (1.60—0.55 Mc/s) |
| | Long | 1100 —1900 metres (0.27—0.16 Mc/s) |
| V.H.F. AERIAL INPUT | Impedance 75 ohms, unbalanced | |
| INTERMEDIATE FREQUENCY | A.M.—470 kc/s | F.M.—10.7 Mc/s |
| G.E.C. VALVES | V1 | V.H.F. (F.M.) amplifier Z719 |
| | V2 | V.H.F. (F.M.) frequency changer Z719 |
| | V3 | A.M. frequency changer X719 |
| | V4 | I.F. amplifier W719 |
| | V5 | { Signal detector } DH77 |
| | | { A.G.C. rectifier } |
| | | { A.F. amplifier } |
| | V6 | Output pentode N709 |
| | V7 | H.T. rectifier U78 |
| RATIO DETECTOR | 2—GEX34 Germanium diodes | |
| LOUDSPEAKERS (permanent magnet) | BC5645 | BC7445 |
| | 8 in. × 5 in. elliptical | 1—8 in. × 5 in. elliptical |
| | | 2—5 in. diameter |
| | Speech coil impedance, 3 ohms at 400 c/s | |
| | Extension loudspeaker terminals | |
| NETT WEIGHT | 18 lb. | 32 lb. |
| DIMENSIONS | height 11½ in. | 12¼ in. |
| | width 17½ in. | 17½ in. |
| | depth 8½ in. | 15½ in. |

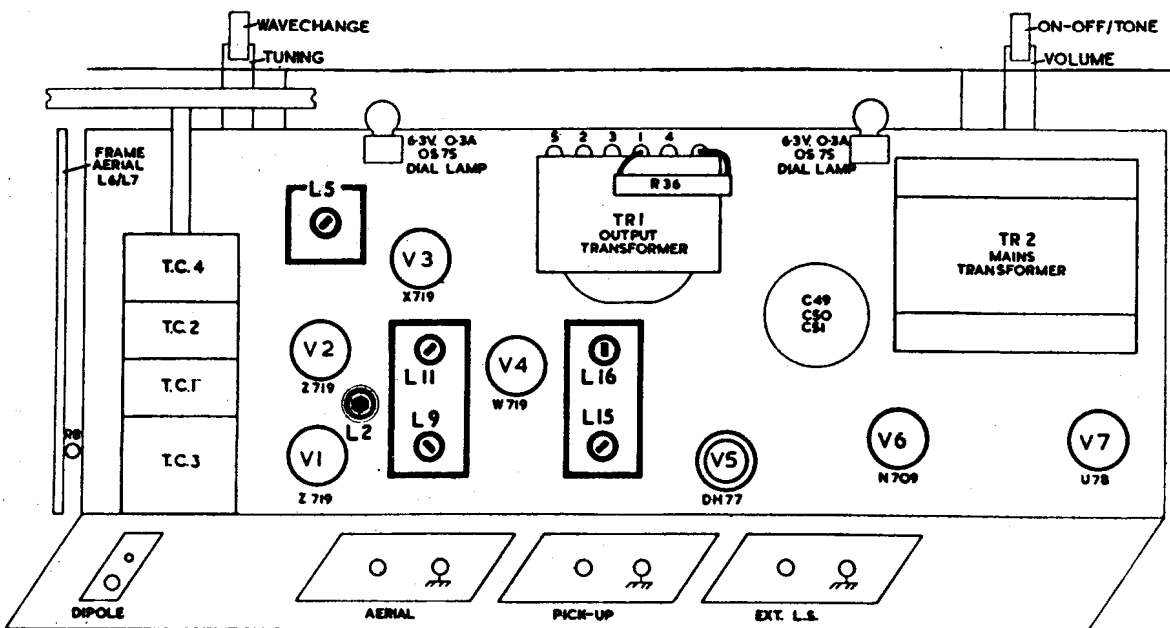


FIG. 1. UPPER VIEW OF CHASSIS

DISMANTLING

BC5645

- (a) Remove the back panel. This is held by four screws.
- (b) Remove the four control knobs (push fit).
NOTE :—There is a felt washer between the tuning and wavechange knobs.
- (c) Remove the two chassis fixing screws and spacers at the rear.
- (d) Withdraw the chassis to the limits of the loudspeaker leads.

BC7445

When the base cover is removed there is ready access to the receiver components under the chassis.

RECEIVER

- (a) Remove the back panel. This is held by three screws.
- (b) Remove the four control knobs (push fit).
NOTE :—There is a felt washer between the tuning and wavechange knobs.
- (c) Remove the two chassis fixing screws and spacers at the rear.
- (d) Release the two 5 in. loudspeakers on the side panels. Each loudspeaker is held by two wingnuts and brass spacers. Place the loudspeakers face down behind the cabinet as far as the leads permit.
- (e) *Very carefully withdraw the receiver chassis, taking extreme care not to damage the frame aerial on the L.S. fixing bolts. Viewed from the rear these are on the left hand panel. At the same time ease the two loudspeakers over the chassis so that the speakers rest face down on the floor of the cabinet with the chassis outside.*

RECORD PLAYER

- (a) Unsolder the player mains-leads (from the mains transformer on the receiver chassis), the pick up leads (from the p.u. terminals which are accessible on removing the base cover), and the player chassis earthing lead (from the tag on top of the 32+32+32 μ F capacitor C49, C50, C51).
- (b) Remove the turntable.
- (c) Undo the three pairs of nuts, below the motor board, to release the record player, this may then be withdrawn from the cabinet. (When replacing the player, note that the heavy copper springs should be placed above the motor board and the plated springs below the motor board).

WIRING COLOUR CODE

A colour code is employed for wiring to distinguish between circuit functions. The chart gives details of wire covering colours and the circuits in which they are used.

| Colour | Use |
|--------|-----------------------------|
| ORANGE | Unsmoothed H.T. positive |
| RED | Smoothed H.T. positive |
| BLUE | Screen grids and mains |
| GREEN | Grids and oscillator coils |
| WHITE | Aerial and loudspeaker |
| BROWN | Heaters and dial lamps |
| BLACK | Points at chassis potential |
| YELLOW | Anodes and general purposes |
| | All sleeving is yellow |

COLLARO 4/564 4 SPEED RECORD PLAYER

The instrument will play records at any one of four speeds of 78, 45, $33\frac{1}{3}$ and $16\frac{2}{3}$ r.p.m. The $16\frac{2}{3}$ r.p.m. records should be of the "talking book" type.

The turnover pick-up head plugs into the pick-up arm. It is fitted with a type "O" crystal insert with type 5304/L long playing stylus for 45, $33\frac{1}{3}$ and $16\frac{2}{3}$ r.p.m. records and type 5304/N standard stylus for 78 r.p.m. records. The stylus may be removed by undoing the small screw which holds it to the cartridge.

THE MOTOR is an induction constant speed type (model A.C.53) with a resistance of approximately 700 ohms.

A standard motor pulley for 50 c/s is fitted. For different supply frequencies a replacement pulley to suit the changed frequency must be substituted.

TURNTABLE REMOVAL. Place the fingers under the rim of the turntable and lift.

LUBRICATION should not normally be required as the motor is fitted with self-oiling bearings. Should lubrication of the motor bearings appear to be necessary after a very long period of service, it is recommended that the complete motor unit be returned to the manufacturers for overhaul or replacement. Dismantling the motor assembly is not recommended as it is difficult to reassemble the motor satisfactorily without special equipment, and noisy running and uneven speed may result.

Care should be taken to keep oil and grease from the inner rim of the turntable, the driving surfaces of the motor pulley and rubber idler wheel (fig. 2). Occasionally wipe these surfaces with a clean rag moistened with petrol or carbon tetrachloride.

PICK-UP STYLUS PRESSURE is not adjustable. A fixed stylus pressure suitable for $16\frac{2}{3}$, $33\frac{1}{3}$, 45 and 78 r.p.m. records is given by the spring under the pick-up arm.

Never use a record which is warped, cracked, chipped or has an enlarged or otherwise damaged centre hole. Destruction of the stylus may result.

AUTO TRIP ADJUSTMENT. No adjustment is provided. Failure may be caused by rough surfaces on the levers that are associated with the trip lever (fig. 2). Do not use oil or grease on these levers.

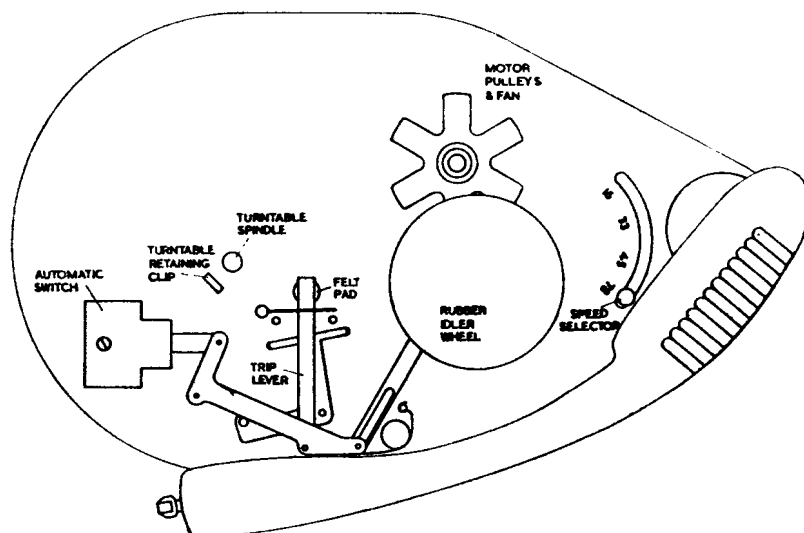


Fig. 2. UPPER VIEW OF COLLARO 4/564 RECORD PLAYER

| | | | | |
|---|------------------------|---|---|---|
| R | 32, 20, 31, 33, 34, 35 | 19, 38, 37, 27, 28, 26, 24, 30, 39, 23, 24, 21, 25, 29, 40, 17, 18, 15, 16, 14, 6, 9, 11, 13, 12, 10, 2, 3, 4, 1, 7 | 8 | R |
| C | 47 | 48, 39, 45, 46, 49, 50, 51, 40, 41, 44, 45, 38, 36, 52, 42, 37, 17, 29, 30, 28, 35, 25, 23, 15, 26, 19, 18, 11, 3, 4, 24, 7, 6, 8, 1, 27, 14, 5, 16, 10, 9, 2 | | C |

L12/13. DUST CORE RP124800.
L2. DUST CORE RP124764.

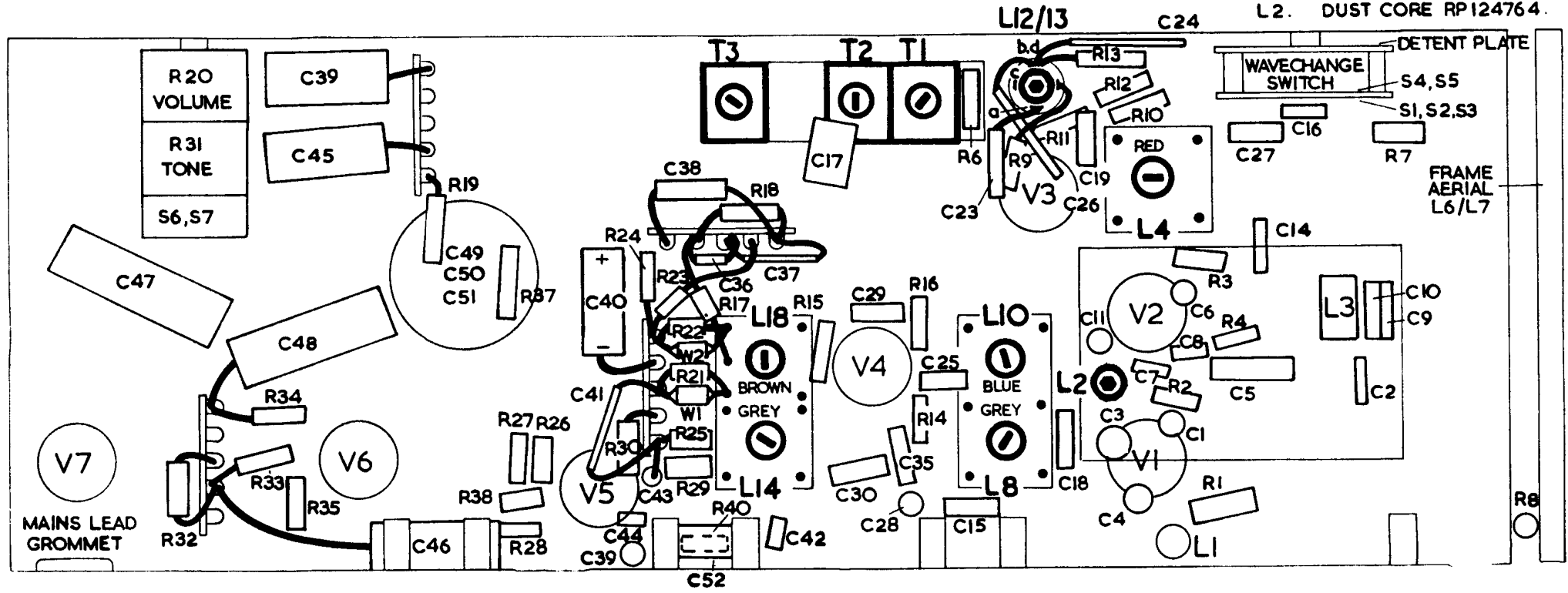


Fig. 3. UNDER VIEW OF CHASSIS

CIRCUIT NOTES

The V.H.F. (F.M.) circuits are shown on the top section of the diagram to separate, as far as possible, the F.M. and A.M. functions of the receiver. X719 (V3) operates as a frequency changer on A.M. and as an I.F. amplifier on F.M., the A.M. oscillator tuned circuit is made ineffective by connecting across it a 150 ohm resistor (R7) in series with C15. This is accomplished by means of S3.

The coil assembly L6/L7 acts as an internal aerial for M.W. and L.W. reception and the tinfoil on the back panel forms an internal V.H.F. aerial. Provision is made for the use of an external dipole aerial with unbalanced feeder.

Mains switches S6 and S7 are incorporated in the tone control, R31, which is combined with the volume control R20. S1-3 are on the back and S4-5 are on the front (spindle end) of the wavechange switch wafer, which is combined with the tuning control. The circuit diagram shows the switches as viewed from the front of the receiver with the control turned fully anti-clockwise for V.H.F. (F.M.) reception. A rear view of the switch is given in fig. 6. V.H.F. and A.M. tuning capacitors TC1 to TC4 are ganged.

The tag connections for the oscillator coil L12/13 may be identified by the corresponding letters in the circuit and under-chassis diagrams.

Details of the resistors and capacitors may be found in the replacement parts list on pages 12 and 13.

DIAL LAMPS. *Two Osram 6.3V 0.3A, m.e.s. OS75 lamps are fitted. Other types should not be used as they may give an unduly short life or fail to provide sufficient illumination.*

NOTE : *The receiver is designed to employ the specified Valves and any replacements that may be necessary must be of these types. G.E.C. or Osram Valves may be fitted and are identical except for the Trade Marks. The alternative branding is in no way associated with any difference in quality or manufacture.*

F.M. SERVICE NOTES

INSTABILITY

In some early models it may be found that there is a tendency for instability to occur on the V.H.F./F.M. range, when using the internal plate aerial. If instability is experienced connect a lead from the tag of valveholder V2 pin 6 to the chassis at a point immediately below the tag. Check that (a) the white lead from the aerial section of the ganged tuning capacitor is kept clear of the tuning capacitor tags, (b) the H.T. yellow lead to V1 screen, pin 8, is placed in close proximity to the chassis, (c) the lead from the 47 pF capacitor C8 to the grid of V2 (pin 2) is kept as short as possible.

MULTIPATH DISTORTION

It has been found that in a few localities severe reflections arriving at the receiving aerial, out of phase with the direct signal, have caused objectionable distortion. This may manifest itself on one or more of the three programmes and vary in magnitude over a period of time. Experience has shown that increasing the aerial efficiency and in extreme cases, improving the aerial directivity and altering its position, clears this "multipath" distortion.

If the difficulty arises it is recommended that the following procedure is adopted :—

- (a) When using the internal aerial move the receiver to different positions in an attempt to find a place where there is no distortion.
- (b) Check with a simple dipole in the immediate vicinity of the receiver, e.g. picture rail fixing.
- (c) Check with an outdoor or loft aerial.
- (d) In very severe cases it will be advisable to instal an efficient directional external aerial.

CIRCUIT ALIGNMENT NOTES

After switching on, allow five minutes for the valves to reach their normal operating temperature. With the tuning capacitor plates fully meshed the right hand edge of the pointer carriage should coincide with the "90" mark on the carriage guide.

The adjustable dust cores in L2 and L12/13 have hexagonal holes and a special insulated trimming tool, manufactured by The General Electric Co. Ltd., is required. The dust cores in the I.F. transformers have screwdriver slots and should be adjusted with a non-metallic screwdriver.

For A.M. alignment at I.F., inject the signal via an isolating capacitor of 0.001 μ F minimum, into the signal grid of V3 (pin 2) and, for the signal frequency circuits feed the signal via a suitable dummy aerial to the aerial and earth sockets. Modulation should be 30% at 400 c/s.

For F.M. alignment at I.F., inject an unmodulated signal via 2000 pF ceramic capacitor with short leads, to the junction of C7 (5.6pF) and L2. The tuning capacitor plates must be fully open. For the V.H.F. circuits feed the signal via an unbalanced 75 ohm network into the dipole socket. A suitable output indicator is a D.C. voltmeter with a F.S.D. of 10 volts and resistance of at least 200k ohms. The meter reading should not be allowed to exceed 4 volts during the alignment procedure.

If difficulty is experienced in achieving complete V.H.F. coverage alter the position of the oscillator fixed-tuning capacitors relative to the coil and the position of the grid coupling capacitor.

A.M. sensitivity figures indicate the required signal level in microvolts, under the given alignment conditions, to produce 50 mW output (0.387 volts r.m.s. across a 3 ohm resistive load connected to the secondary of the output transformer). Sensitivity variations of up to +100% or -50% may be tolerated.

F.M. sensitivity figures are the input levels in microvolts required to produce 4V across R24 in the discriminator circuit.

TUNED CIRCUIT ALIGNMENT

| Range | Frequency Mc/s | Scale Setting | Adjust in sequence | Notes | Average Sensitivity μ V |
|------------------|----------------|---------------|--------------------------|--|------------------------------|
| A.M. I.F. | 0.470 | 90 | L15, L14 L9, L8 | Input to V3 grid (pin 2). Switch to L.W. Tuning capacitor at maximum. Repeat adjustments. | 110 |
| M.W. | 0.60 | 78 | L12/13 | | 75 |
| | 1.50 | 10 | T1 | Repeat adjustments. L12/L13, T1 in sequence. | |
| | 1.50 | — | T3 | Tuning control set for maximum output. | 50 |
| L.W. | 0.23 | — | T2 | | 175 |
| F.M. I.F. | 10.70 | 0 | L16, L11, L10, L5, L4 | Input between C7/L2 junction and chassis. Tuning capacitor at minimum. 0—10 voltmeter across R24. Adjust for maximum output.* Finally adjust input for meter reading of 4 volts. | |
| | | | L18 | Transfer meter across C36. Adjust L18 for reading of 2 volts. | |
| | | | L16, L11, L10, L5, L4 | Meter across R24. Adjust for maximum output.* | |
| | | | L18 | Transfer meter across C36. Adjusting L18 note max. and min. readings. Add these figures, divide by 2 and set L18 to give a meter reading equal to the result. | 2000 for 4V across R24 |
| V.H.F. (F.M.) | 94 | 46.5 | L3, L2 | Meter across R24. Input to dipole sockets. Adjust for maximum output.* To adjust L3 space-off or close-in end turn next to C8. Rock tuning capacitor whilst adjusting L2 for maximum meter reading. If pointer calibration is appreciably affected, readjust L3. | 2.5 |

*Adjust the input to maintain the meter reading at or just below 4 volts.

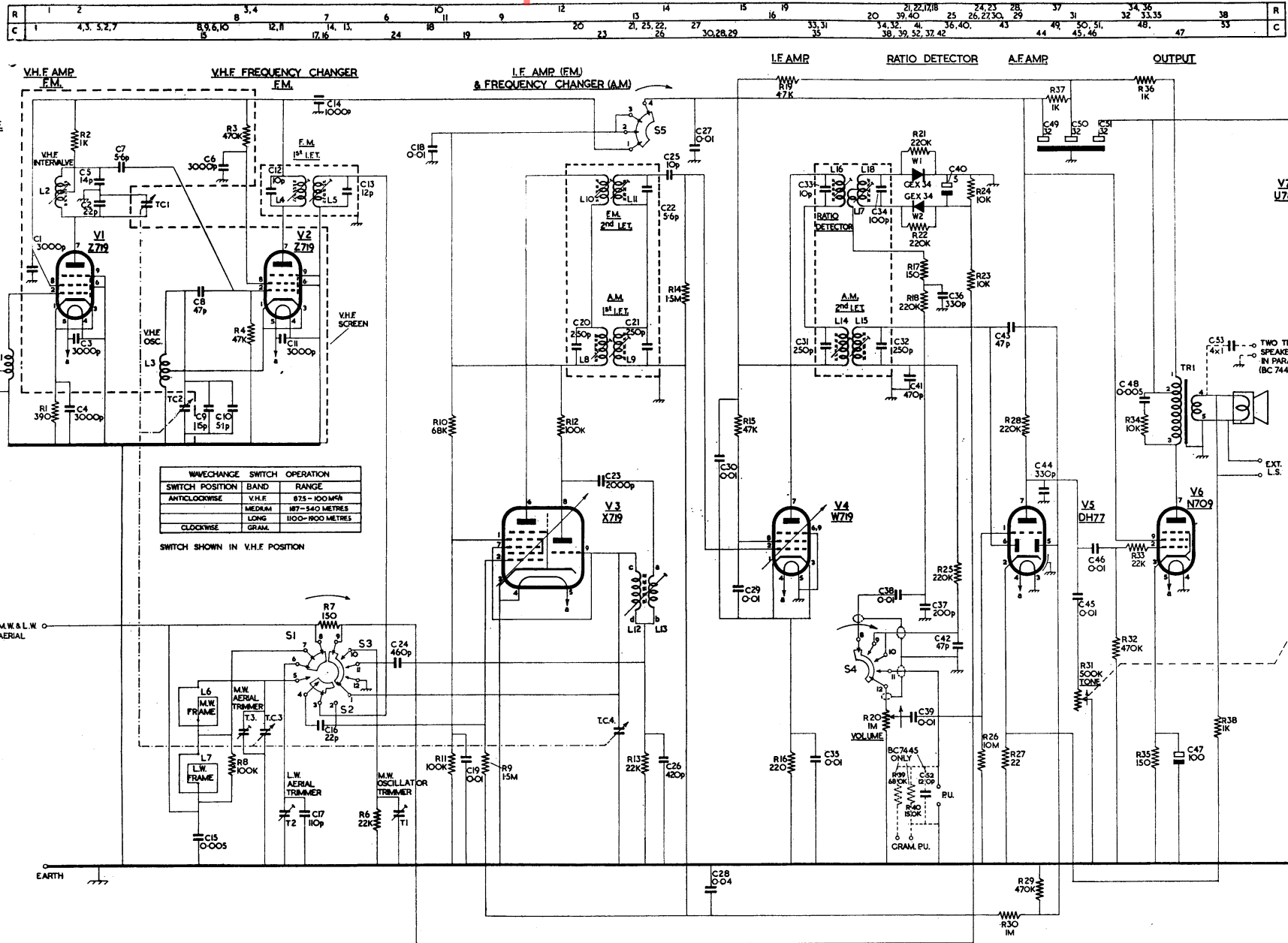


Fig. 4. CIRCUIT DIAGRAM FOR BC5645 V.H.F./F.M. RADIO RECEIVER AND BC7445 V.H.F./F.M. RADIOGRAMOPHONE

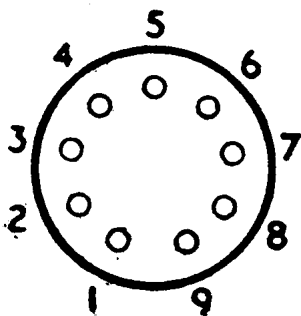
POTENTIAL READINGS

230 Volts 50 c/s mains at 230V tap.

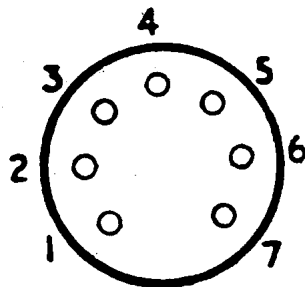
Measurements with 20,000 ohm/volt meter.

No signal input and receiver tuned to 94 Mc/s on V.H.F./F.M. and 1.5 Mc/s on M.W.

| Valve No. | Condition | Anode Volts | Screen Volts | Cathode Volts |
|-------------------------------|-----------|-------------|--------------|---------------|
| 1 | V.H.F. | 205 | 210 | 3.3 |
| | A.M. | — | — | — |
| | Gram. | — | — | — |
| 2 | V.H.F. | 210 | 45 | 0 |
| | A.M. | — | — | — |
| | Gram. | — | — | — |
| 3 (hexode) (triode) | V.H.F. | 210 | 50 | 0 |
| | A.M. | 240 | 46 | 0 |
| | Gram. | — | — | — |
| | V.H.F. | 25 | — | 0 |
| | A.M. | 40 | — | 0 |
| | Gram. | — | — | — |
| 4 | V.H.F. | 190 | 100 | 2.1 |
| | A.M. | 200 | 110 | 2.2 |
| | Gram. | 210 | 110 | 2.2 |
| 5 | V.H.F. | 80 | — | 0 |
| | A.M. | 85 | — | 0 |
| | Gram. | 85 | — | 0 |
| 6 | V.H.F. | 250 | 210 | 6.0 |
| | A.M. | 250 | 240 | 6.9 |
| | Gram. | 250 | 255 | 7.4 |
| 7 | V.H.F. | — | — | 265 |
| | A.M. | — | — | 270 |
| | Gram. | — | — | 275 |



Z719, X719,
W719, N709



DH77, U78

UNDERVIEW OF VALVE BASES

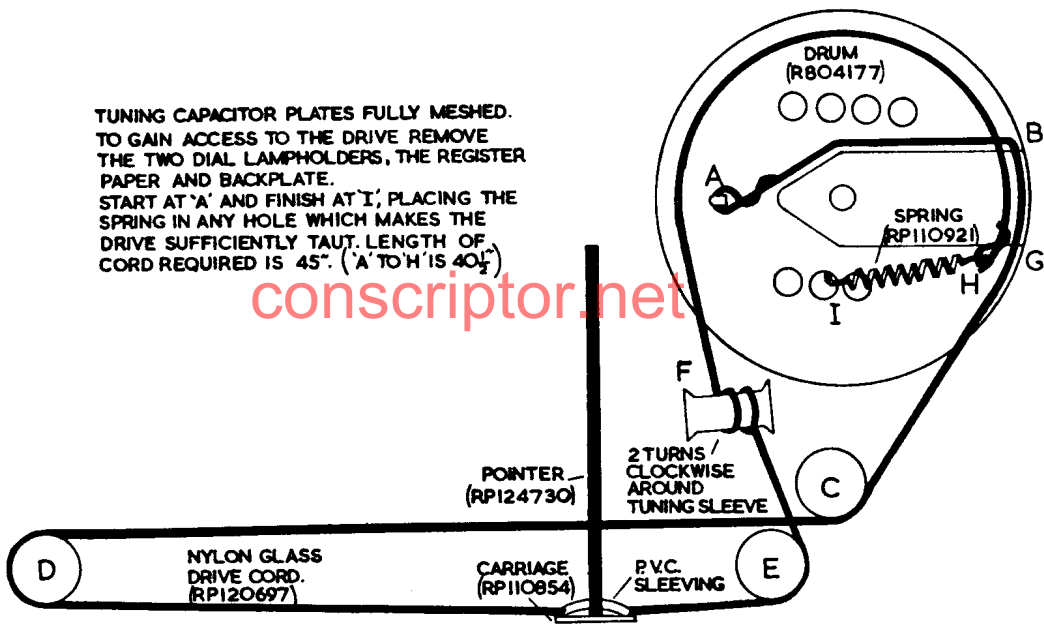


Fig. 5. TUNING DRIVE

DRIVE CORD BRACKET

In early models damage to the drive cord may occur on removing the tuning control knob, due to the tuning control sleeve being free to move. A special bracket, part No. RP124889 can be fitted over the collar of the sleeve and the control securing locknut, to hold the sleeve in position. The bracket is fitted in later models.

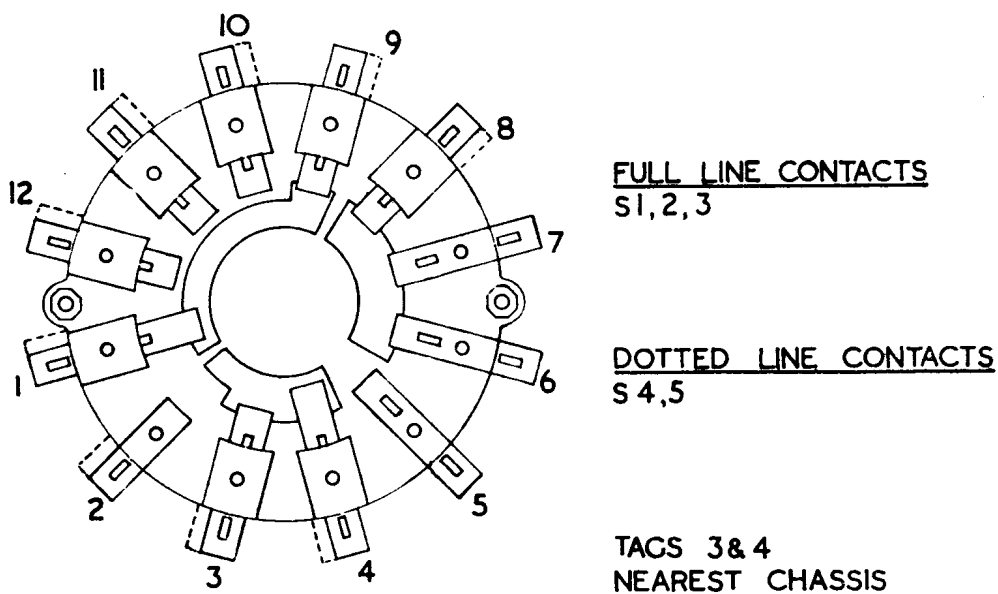


Fig. 6. WAVECHANGE SWITCH (REAR VIEW)

REPLACEMENT PARTS—ORDER REFERENCE NUMBERS

| | | | |
|---------------------------------|----------|-------------------------------------|----------|
| Cabinet (BC5645) | R811832 | Drum | R804177 |
| Cabinet assy. (BC7445) | R811876 | Screen | R811863 |
| Front panel | R811837 | Trimmer unit (triple, 3-5—30pF) ... | RP119517 |
| Baffle (BC5645) | R811855 | Iron dust core (L12/13) | RP124800 |
| Baffle (BC7445) | R811959 | Iron dust core (L2) | RP124764 |
| Gram. unit (BC7445) | R811922 | Wavechange switch | R811868 |
| Pick-up cartridge | RP124047 | Potentiometer, combined | R811869 |
| Std. stylus (5304/N) | RP124296 | Volume 1M, log | |
| L.P. stylus (5304/L) | RP124297 | Tone 500k, linear | |
| Base cover (BC7445) | R811923 | Tag boards | RP123704 |
| Back assembly (BC5645) | R811861 | Terminal plates | RP107765 |
| Back assembly (BC7445) | R811924 | Mains cord | R803259 |
| Register | R811856 | Grommet | RP117766 |
| Knob (on/off, Tone) | R811857 | Backplate | R811871 |
| Knob (volume or tuning) | R811858 | Lampholders | RK200461 |
| Knob (wavechange) | R811920 | Sleeve | RP124729 |
| Plug (aerial/earth) | RK203680 | Pulleys | RP111654 |
| Plug (2 pin) | RK202429 | Bushes... .. | RP117767 |
| Shell (for 2 pin plug) | RP124728 | Rod (tension)... .. | RP124732 |
| Socket (2 pin) | RP124726 | Springs | RP101401 |
| Valveholders (B9A) | R808714 | Screen (diffusion) | R811874 |
| Valveholders (B7G) | RK204216 | Carriage guide | R811875 |
| Valveholders (B7G) | RP123806 | Carriage | RP110854 |
| Valve screen | RP123807 | Pointer | RP124730 |
| Tuning capacitor | R811839 | Spring (drum) | RP110921 |
| TC1/2 Min. 9pF (max.), swing | | Nylon glass drive cord | RP120697 |
| 17.4pF (min.) | | Drive cord bracket (page 11) ... | RP124889 |
| TC3/4 Min. 13.5pF (max.), swing | | | |
| 528pF (min.) | | | |

CAPACITORS

| | Capacitance | Volts | Type | Tolerance ±% | |
|--------------------------------|-------------|---------------------------|--------------|--------------|---------------------------|
| C1, 3, 4, 6, 11 | 3000pF | 500 | Disc 831 | +80 -20 | RP194277 |
| C2 | 2.2pF | 750 | 310P100 | ±0.5pF | RP194416 |
| C5 | 14pF | 750 | P100L | ±0.5pF | RK202819 |
| C7 | 5.6pF | 750 | P100AD | 10 | RP194409 |
| C8, 41, 43 | 47pF | 750 | N750A | 2 | RK202641 |
| C9 | 15pF | 350 | P.S.M. | ±0.5pF | RP194418 |
| C10 | 5.1pF | 750 | 310N750 | ±0.5pF | RP194417 |
| C12 | 10pF | } Part of I.F.T. assembly | | | |
| C13 | 12pF | | | | |
| C14 | 1000pF | 500 | Feed through | +80 -20 | RP194289 |
| C15 | 0.005μF | 350 | W99 | 20 | RK204126 |
| C16 | 22pF | 750 | N750AD | ±1pF | RP194379 |
| C17 | 110pF | 350 | P.S.M. | 2 | RK202803 |
| C18, 19, 27, 29, 30, 35, 38 | 0.01μF | 400 | W99 | 20 | RK203856 |
| C20, 21 | 250pF | } Part of I.F.T. assembly | | | |
| C22 | 5.6pF | | | | |
| C23 | 2000pF | 500 | GP2/CD | 20 | RP194001 |
| C24 | 460pF | 350 | P.S.M. | 1 | RK202610 |
| C25 | 10pF | 750 | P100AD | 10 | RP194410 |
| C26 | 420pF | 350 | P.S.M. | 2 | RP194012 |
| C28 | 0.04μF | 150 | W99 | 20 | { RP194398 or RP194060 |
| C31, 32 | 250pF | } Part of I.F.T. assembly | | | |
| C33 | 10pF | | | | |
| C34 | 100pF | | | | |
| C36, 44 | 330pF | 500 | GP2/AD | 20 | RP194412 |
| C37 | 200pF | 350 | P.S.M. | 2 | RK203784 |
| C39, 45, 46 | 0.01μF | 1000 | Paper | 25 | RK200875 |
| C40 | 5μF | 25 | Elect. | 25 | RP194414 |
| C42 | 47pF | 350 | P.S.M. | ±1pF | RK202635 |
| C47 | 100μF | 12 | Elect. | +100 -20 | RP194313 |
| C48 | 0.005μF | 1000 | Paper | 25 | RK201257 |
| C49, 50, 51 | 32+32+32μF | 275 | Elect. | +50 -20 | RP194364 |
| C52 | 120pF | 350 | P.S.M. | 2 | RP194017 |
| C53 | 4 × 1μF | 250 | Paper | 25 | RK202086 |

| RESISTORS | | | | |
|---------------------|------|-------------------|--------------------------|----------|
| | ohms | Watts | Tolerance ±% | |
| R1 | 390 | ½ | 10 | RP190789 |
| R2, 38 | 1k | ½ | 10 | RP190794 |
| R3, 29, 32 | 470k | ½ | 10 | RP190826 |
| R4, 15 | 47k | ½ | 10 | RP190814 |
| R6, 13, 33 | 22k | ½ | 10 | RP190810 |
| R7, 17, 35 | 150 | ½ | 10 | RP190784 |
| R8, 11, 12 | 100k | ½ | 10 | RP190818 |
| R9, 14 | 1.5M | ½ | 10 | RP190832 |
| R10 | 68k | ½ | 10 | RP190816 |
| R16 | 220 | ½ | 10 | RP190786 |
| R18, 21, 22, 25, 28 | 220k | ½ | 10 | RP190822 |
| R19 | 4.7k | ½ | 10 | RP190802 |
| R20 | 1M | Volume pot., log | } combined 1 in. spindle | R811869 |
| R31 | 500k | Tone pot., linear | | |
| R23, 24, 34 | 10k | ½ | 10 | RP190806 |
| R26 | 10M | ½ | 10 | RP190842 |
| R27 | 22 | ½ | 10 | RP190774 |
| R30 | 1M | ½ | 10 | RP190830 |
| R36 | 1k | 1 | 10 | RP191334 |
| R37 | 1k | ½ | 10 | RP191064 |
| R39 | 680k | ½ | 10 | RP190828 |
| R40 | 150k | ½ | 10 | RP190820 |

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| COIL AND TRANSFORMER DATA | | | | |
|------------------------------|---|-------------------|--------------------------|-----------------------|
| (*indicates less than 1 ohm) | | | | |
| Circuit reference | Component | Resistance (ohms) | Inductance μH (or turns) | Part No. for Ordering |
| TR1 | Output transformer | | | RK202705 |
| | primary, tags 1-2 | 20 | | |
| | tags 2-3 | 560 | | |
| | secondary | * | | |
| — | 8 in. × 5 in. elliptical loudspeaker (BC5645) ... | | | R810839 |
| — | 8 in. × 5 in. elliptical loudspeaker (BC7445) ... | | | R811948 |
| — | 5 in. dia. loudspeaker (BC7445) | | | R811949 |
| TR2 | Mains transformer (270-0-270V) | | | R811867 |
| | primary, 0-200V | 22.4 | | |
| | 0-230V | 25.7 | | |
| | 0-250V | 28.3 | | |
| | secondary, total H.T. | 648 | | |
| | rect. fil. | * | | |
| | heaters | * | | |
| L1 | F.M. aerial coil, T | * | 6T tapped at 2½T | RP124723 |
| L2 | F.M. R.F. coil, T | * | 7T tapped at 3T | RP124724 |
| L3 | F.M. osc. coil, T | * | 3T tapped at ¾T | RP124725 |
| L4 | 1st F.M. I.F.T., primary | 1.6 | } | R811864 |
| L5 | secondary | 1.2 | | |
| L6 | Frame aerial, M.W. | * | 178.5μH | R810669 |
| L7 | Frame aerial, L.W. | 14.9 | 1770μH | |
| L8/9 | 1st A.M. I.F.T. (each winding) | 10.5 | } | R811865 |
| L10/11 | 2nd F.M. I.F.T. (each winding) | 1.5 | | |
| L12 | A.M. osc., T | 2.16 | 58.4μH | RP123712 |
| L13 | A.M. osc., C | * | | |
| L14/15 | 2nd A.M. I.F.T. (each winding) | 10.5 | } | R811866 |
| L16 | 3rd F.M. I.F.T., primary | 1.5 | | |
| L18 | secondary | 0.2 | | |
| L17 | tertiary | 0.3 | | |

NOTE:—"C" refers to the coupling winding and "T" to the tuned winding.