

PHILIPS**CAR RADIO****Model N4G93VT**

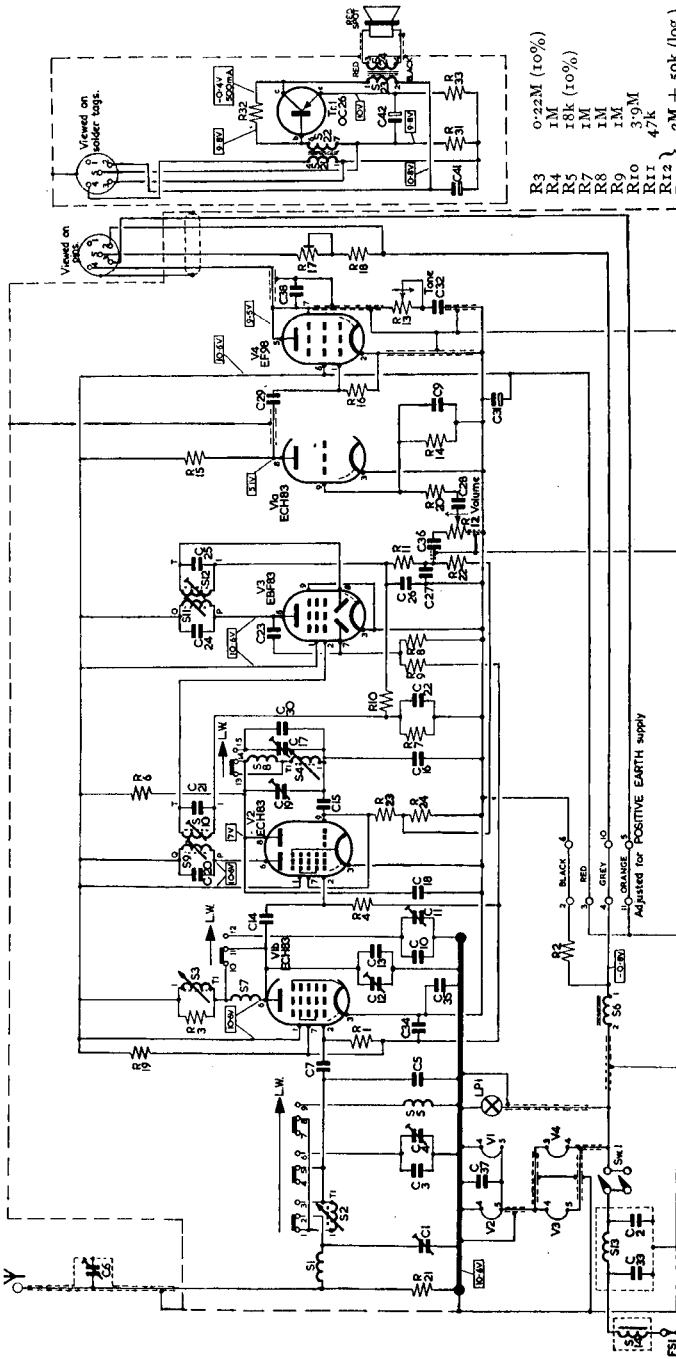
General Description: Four-valve (plus output transistor), two-waveband, "hybrid"-type car radio with 12-volt "H.T." line, with push-button station selection and wave-change and with continuously variable tone control. Also known as Model 493VT.

Power Supply: 12-volt car battery. Shown for positive-earth systems on circuit diagram but with instructions for modifying for negative-earth systems. Consumption approximately 1.5 amps.

Wavebands: M.W. 192-580 m.; L.W. 1050-2000 m.

Valves: (V₁) ECH83; (V₂) ECH83; (V₃) EBF83; (V₄) EF98. Transistor (Tr1) OC26.

Notes: Fuse FS₁ 3 amp.; pilot lamp, L₁, 12 volts, 3-watts (Type 12842). Typical voltages shown on circuit diagram, taken with respect to the negative size of C₃₁ using a 20,000-ohms/volt meter. Receiver switched to M.W. under no-signal conditions with input of 12 volts, 1.5 amps. The arrows on the potentiometers indicate movement of wiper when knob is turned in a clockwise direction. S₂, S₃ and S₄ are ganged together, Sw₁ is ganged to R₁₂.



For NEGATIVE EARTH:
 Remove the BLACK lead from tag 2 and connect to tag 3
 Remove the RED lead from tag 4 and connect to tag 5
 Remove the GREY lead from tag 6 and connect to tag 5
 Remove the ORANGE lead from tag 5 and connect to tag 10

CIRCUIT DIAGRAM—PHILIPS MODEL N4G93VT

- Capacitors:
 C1 50 pF.
 C2 0.47
 C3 220 pF.
 C4 275 pF.
 C5 100 pF.
 C7 100 pF.
 C8 4700 pF.
 C9 47 pF.
 C10 480 pF.
 C11 400 pF.
 C12 30 pF.
 C13 27 pF.
 C14 22 pF. (10%)
 C15 100 pF.
 C16 220 pF. (5%)
 C17 30 pF.
 C18 220 pF. (5%)
 C19 30 pF.
 C20 195 pF.
 C21 195 pF.
 C22 4700 pF.
 C23 33 pF.
 C24 195 pF.
 C25 195 pF.
 C26 100 pF.
 C27 100 pF.
 C28 4700 pF.
 C29 4700 pF.
 C30 12 pF. (10%)
 C31 100 (12 v.)
 C32 0.22
 C33 0.47
 C34 0.47
 C35 0.47
 C36 4700 pF.
 C37 0.1
 C38 0.1 (10%)
 C39 1000 (15 v.)
 C40 2000 (6 v.)
 C41 2000 (6 v.)
 C42 2000 (6 v.)

- Resistors:
 R1 1M
 R2 100

- R3 0.22M (10%)
 R4 1M
 R5 18k (10%)
 R6 1M
 R7 1M
 R8 1M
 R9 1M
 R10 3.9M
 R11 4.7k
 R12 2M + 50k (log.)
 R13 10M
 R14 0.18M
 R15 10M
 R16 100 (W.W.)
 R17 56 (5.5 W., W.W.)
 R18 20M
 R19 47k
 R20 47k
 R21 0.33M (10%)
 R22 0.39M (10%)
 R23 15k
 R24 3k
 R25 470 (10%, I.W.)
 R26 470 (10%, I.W.)
 R27 470 (10%, I.W.)
 R28 470 (10%, I.W.)
 R29 470 (10%, I.W.)
 R30 470 (10%, I.W.)
 R31 470 (10%, I.W.)
 R32 470 (10%, I.W.)
 R33 470 (10%, I.W.)

Viewed on solder tags.

Viewed on pins.