

PHILIPS CAR RADIO Model N4G93VT

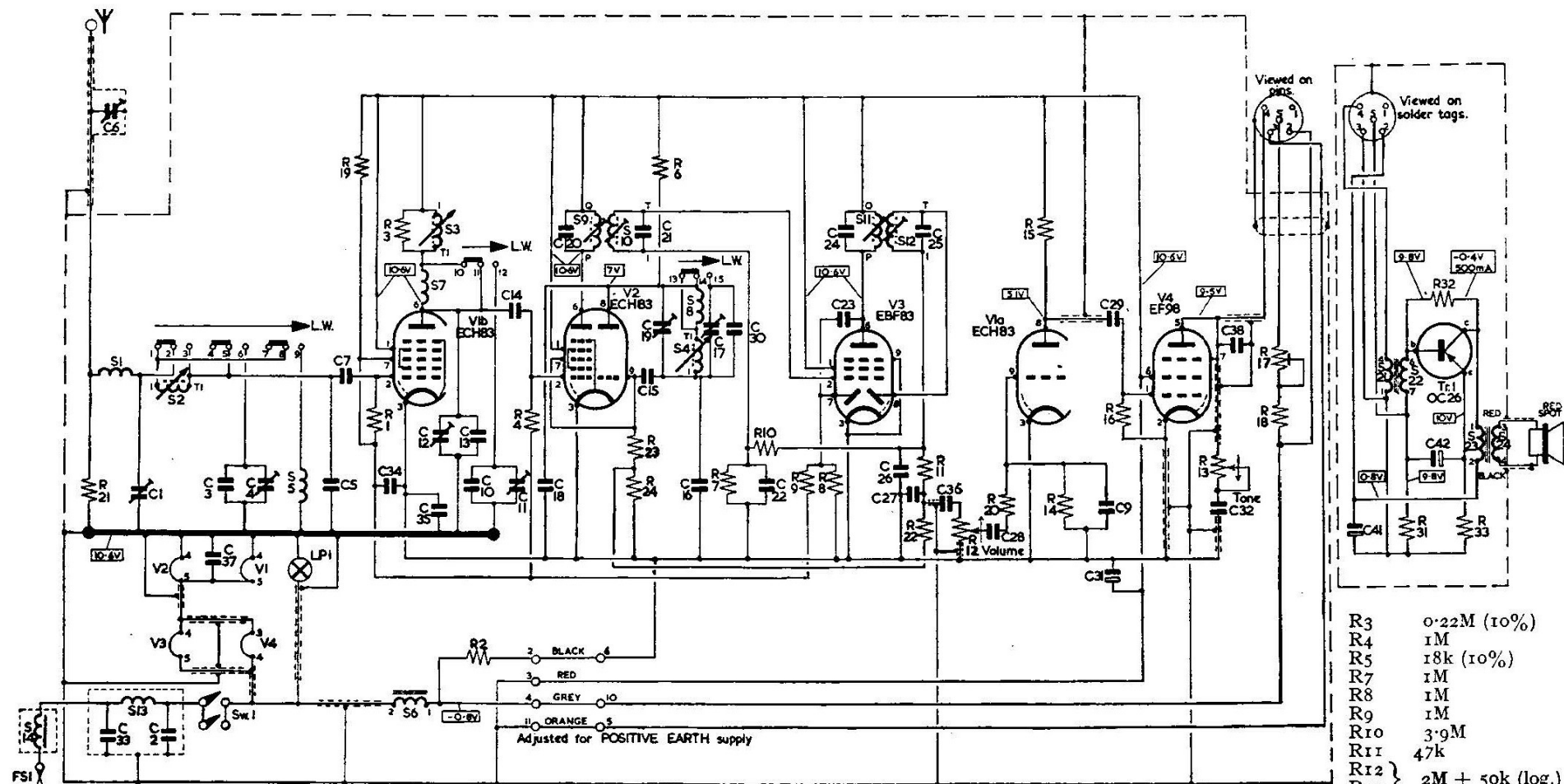
General Description: Four-valve (plus output transistor), two-wave-band, "hybrid"-type car radio with 12-volt "H.T." line, with push-button station selection and wave-change and with continuously variable tone control. Also known as Model 493VT.

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.



CIRCUIT DIAGRAM—PHILIPS MODEL N4G93VT

Capacitors.

C1	50 pF.
C2	0.47
C3	220 pF.
C4	275 pF.
C5	92 pF. (1%)
C7	100 pF.

C8	4700 pF.
C9	47 pF.
C10	180 pF. (10%)
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	0.047
C35	0.47
C36	4700 pF.
C37	0.1
C38	0.01 (10%)
C41	1000 (15 v.)
C42	2000 (6 v.)

Resistors.	
R1	1M
R2	100

R3	0.22M (10%)
R4	1M
R5	18k (10%)
R7	1M
R8	1M
R9	1M
R10	3.9M
R11	47k
R12	2M + 50k (log.)
R13	
R14	10M
R15	0.18M
R16	10M
R17	100 (W.W.)
R18	56 (5.5 W., W.W.)
R19	10M
R20	47k
R21	0.33M (10%)
R22	0.39M (10%)
R23	15k
R24	33k
R31	6.2 (5%, W.W.)
R32	470 (10%, 1 W.)
R33	1 (10%, 1 W.)

For NEGATIVE EARTH:

Remove the BLACK lead from tag 2 and connect to tag 3
Remove the RED lead from tag 3 and connect to tag 2
Remove the GREY lead from tag 10 and connect to tag 5
Remove the ORANGE lead from tag 5 and connect to tag 10

Adjusted for POSITIVE EARTH supply