

## MURPHY RECEIVERS

---

### INTRODUCTORY NOTES

DETAILED technical information on the servicing of Murphy receivers is supplied only to accredited agents, and purchasers of this Company's products are advised, at the time of purchase, to have their receivers serviced only by such dealers. In the following pages, however, will be found diagrams of typical circuits which have been used in the main classes of post-war models manufactured by this Company and which illustrate the circuit features employed in this range of broadcast receivers.

It should be noted that several of the chassis have been modified at various times in production, so that the exact circuit details and component values found in any particular model may differ slightly from those shown.

The check voltages indicated on the circuit diagrams were normally measured with a 20,000- or 500-ohms/volt meter (as indicated) while the receiver was operating on the medium-wave band under no-signal conditions.

### MODEL A188C

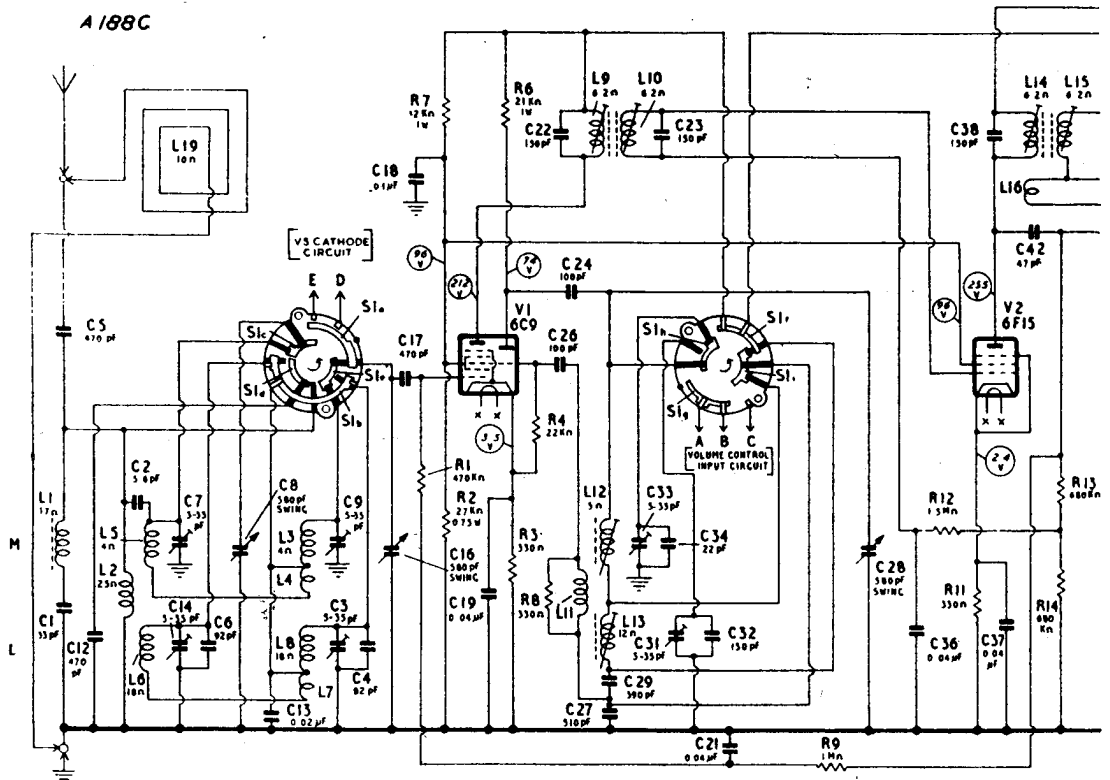
**General Notes :** Eight-valve (including rectifier and tuning indicator), two-waveband superheterodyne receiver using floor-type baffle construction for operation from A.C. mains.

**Valves :** (V1) 6C9, frequency changer; (V2) 6F15, I.F. amplifier; (V3) 6LD20, demodulator, A.V.C. and phase reverser; (V4) 6M1, tuning indicator; (V5) 6F15, A.F. amplifier; (V6 and V7) 6P25, push-pull power amplifier; (V8) UU6, full-wave rectifier.

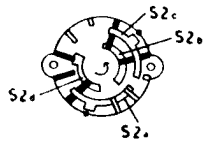
**Pilot Lamps :** Two 6.5 volts, 0.3 amp.

**Circuit Notes :** The four-position tone-control switching arrangement includes variation of the I.F. selectivity to increase top response on powerful stations. An internal frame aerial is provided for local station reception. The receiver is accommodated on two separate chassis, the push-pull output stage and power supply being connected to the main receiver chassis by two multi-cored cables. A negative feedback loop derives from a separate winding on the output transformer. L1-C1 form a series-tuned I.F. filter.

**Intermediate Frequency :** 470 kc/s.



TONE/SELECTIVITY SWITCH (S2 - S2c)



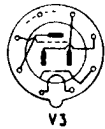
6C9 (BBA)



6F15 (BBA)



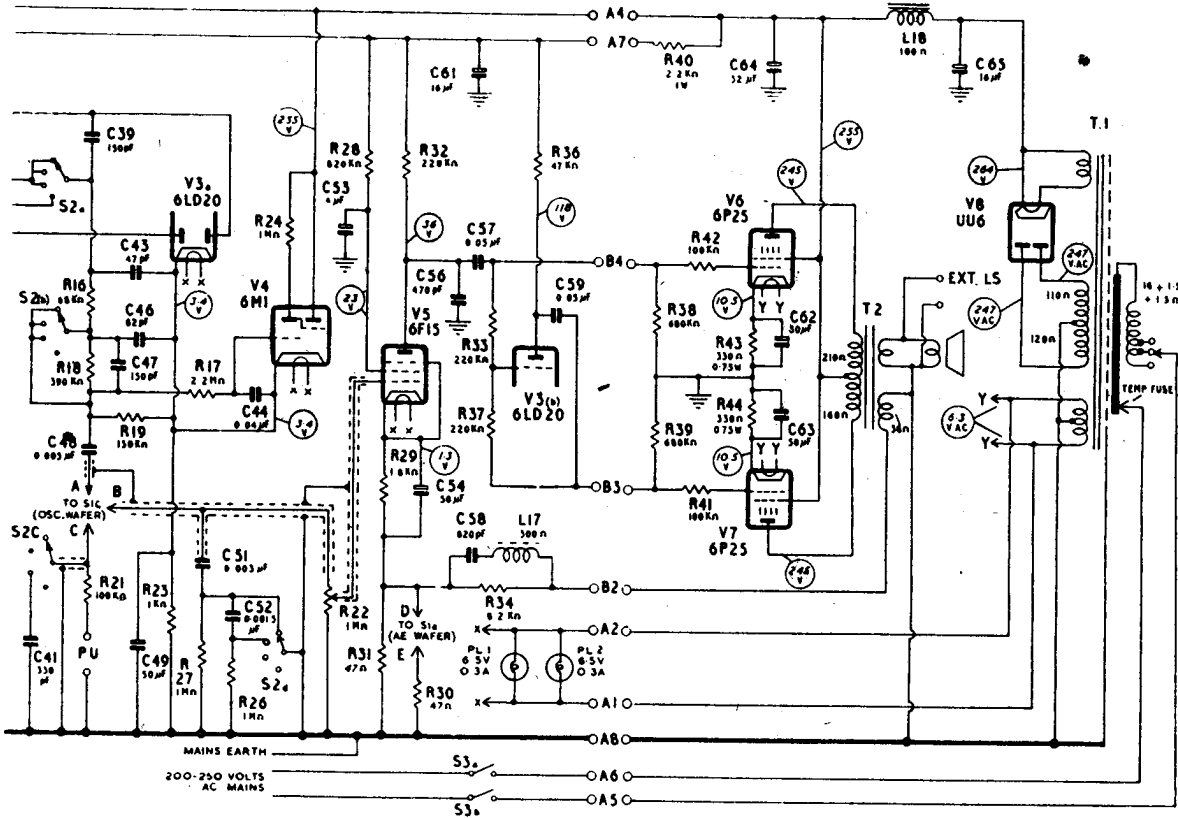
6LD20 (BBA)



CIRCUIT DIAGRAM—MURPHY

Component Values :

<i>Capacitors.</i>			
C1	33 pF.	C31	5-35 pF.
C2	5.6 pF.	C32	150 pF.
C3	5-35 pF.	C33	5-35 pF.
C4	82 pF.	C34	22 pF.
C5	470	C36	0.04
C6	92 pF.	C37	0.04
C7	5-35 pF.	C38	150 pF.
C8	580 pF. Swing	C39	150 pF.
C9	5-35 pF.	C41	330 pF.
C12	470 pF.	C42	47 pF.
C13	0.02	C43	47 pF.
C14	5-35 pF.	C44	0.04
C16	580 pF. Swing	C46	82 pF.
C17	470 pF.	C47	150 pF.
C18	0.1	C48	0.005
C19	0.04	C49	50
C21	0.04	C51	0.003
C22	150 pF.	C52	0.0015
C23	150 pF.	C53	4
C24	100 pF.	C54	50
C26	100 pF.	C56	470 pF.
C27	510 pF.	C57	0.05
C28	580 pF. Swing	C58	820 pF.
C29	390 pF.	C59	0.05
C61	16	C62	50
C63	50	C64	32
C65	16		
<i>Resistors.</i>			
R1	470k	R21	100k
R2	27k (0.75 W.)	R22	1M
R3	330	R23	1k
R4	22k	R24	1M
R6	27k (1 W.)	R26	1M
R7	12k (1 W.)	R27	1M
R8	330	R28	820k
R9	1M	R29	1.8k
R11	330	R30	47
R12	1.5M	R31	47
R13	680k	R32	220k
R14	680k	R33	220k
R16	68k	R34	8.2k
R17	2.2M	R36	47k
R18	390k	R37	220k
R19	150k	R38	680k
		R39	680k
		R40	2.2k (1 W.)
		R41	100k
		R42	100k
		R43	330 (0.75 W.)
		R44	330 (0.75 W.)



SUBJECT TO ALTERATION WITHOUT NOTICE ISSUE D MAY 1951

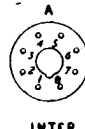
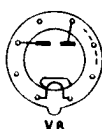
6M1 (10)



6P25 (10)



UU.6 (B 0.)



INTER CHASSIS CONNECTORS (LOOKING AT PINS)

MODEL A188C

D.C. Resistance of Coils (ohms).

Values under 1 ohm omitted.

L1	17	L6	18	L12	5	L17	300
L2	25	L8	18	L13	12	L18	100
L3	4	L9	6.2	L14	6.2	L19	10
L5	4	L10	6.2	L15	6.2		

T1 (primary) 16 + 1.5 + 1.5  
T2 (primary) 210 + 160

T1 (H.T. secondary) 110 + 120  
T2 (neg. feedback winding) 38

The waveband switch (S1a-S1i) is shown in position "M"; rotate anti-clockwise for the "L" and "G" positions. The tone-selectivity switch (S2a-S2d) is shown in position "1"; rotate anti-clockwise for positions "2", "3" and "4". The switch wafers are viewed from the rear, the black contacts and inner rotors being on the hidden side. Blank positions and anchoring tags are indicated by a spot. All voltages were measured with a 500-ohms/volt meter under no-signal conditions on the medium waveband.

Voltages measured to chassis: Main H.T. line (A4) 255 v.

Secondary H.T. line (A7) 212 v.