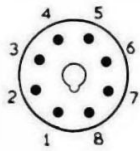
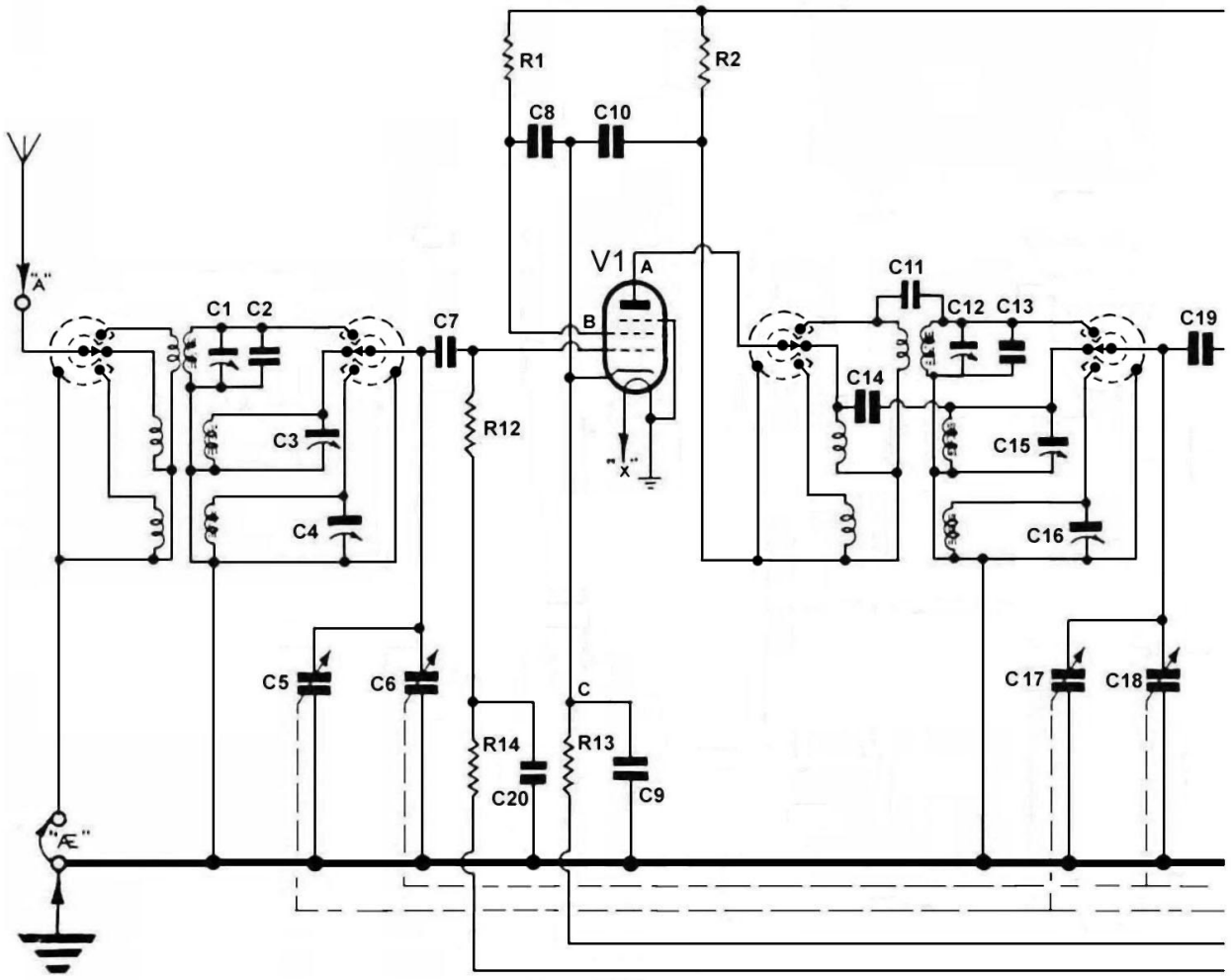


CIRCUIT DIAGRAM—EDDYSTONE MODEL 640

VALVE	CONNECTIONS							
	1	2	3	4	5	6	7	8
EF 39	M	H	A	G	2	G	3	G
6K8T	-	H	A	G	2	G	1	A
6Q7GT	-	H	A	D	1	D	-	G
6V6GT	-	H	A	G	2	G	-	K
6X5GT	-	H	A	-	A	-	-	K
EB34	M	H	D	K	I	D	-	K

- Capacitors.**  
 3/20 pF. (air)  
 3/20 pF. (ceramic)  
 3 pF.  
 6 pF.  
 10 pF.  
 20 pF.  
 40 pF.  
 100 pF.  
 200 pF.  
 2100 pF.  
 950 pF.  
 380 pF.
- Bandspread capacitor** (C5, C17, C32) 12-366.5 pF.  
**Bandspread capacitor** (C6, C18, C33) 9-46.2 pF.
- Resistors.**  
 2.6 (wire)  
 12  
 100  
 270  
 330  
 400  
 560 (or 500)  
 3.7k  
 4.7k (or 5000)  
 15k  
 20k  
 22k (or 25k)  
 All 1/2-watt except R3, R4, R15, R33 (1-watt).
- Resistors.**  
 R41  
 R20  
 R21  
 R33  
 R18, R25  
 R13, R24  
 R22  
 R39  
 R2, R5, R7, R9, R29  
 R3  
 R15  
 K38  
 R4, R10  
 R40  
 R19, R23, R37  
 R1, R6, R8, R11, R32  
 R12, R14, R16, R17, R28, R30, R31  
 R34  
 R35  
 R26  
 R36
- Resistors.**  
 27k (or 30k)  
 33k  
 47k  
 100k  
 0.27M  
 0.47M  
 1M  
 2.2M  
 10k pot.  
 0.5M pot.
- Capacitors.**  
 C57, C62, C65, C70, C71  
 C48, C60  
 C51  
 C50  
 C56  
 C64  
 C72  
 C61, C63  
 C73  
 Crystal phasing capacitor C38  
 B.F.O. pitch capacitor C68
- Arbitrary Scale**  
 (based on 6 db. change per S unit)  
 S1 7.5  $\mu$ A. S6 77  $\mu$ A.  
 S2 16  $\mu$ A. S7 100  $\mu$ A.  
 S3 27  $\mu$ A. S8 125.5  $\mu$ A.  
 S4 41  $\mu$ A. S9 157  $\mu$ A.  
 S5 58.5  $\mu$ A.
- "S" - METER**

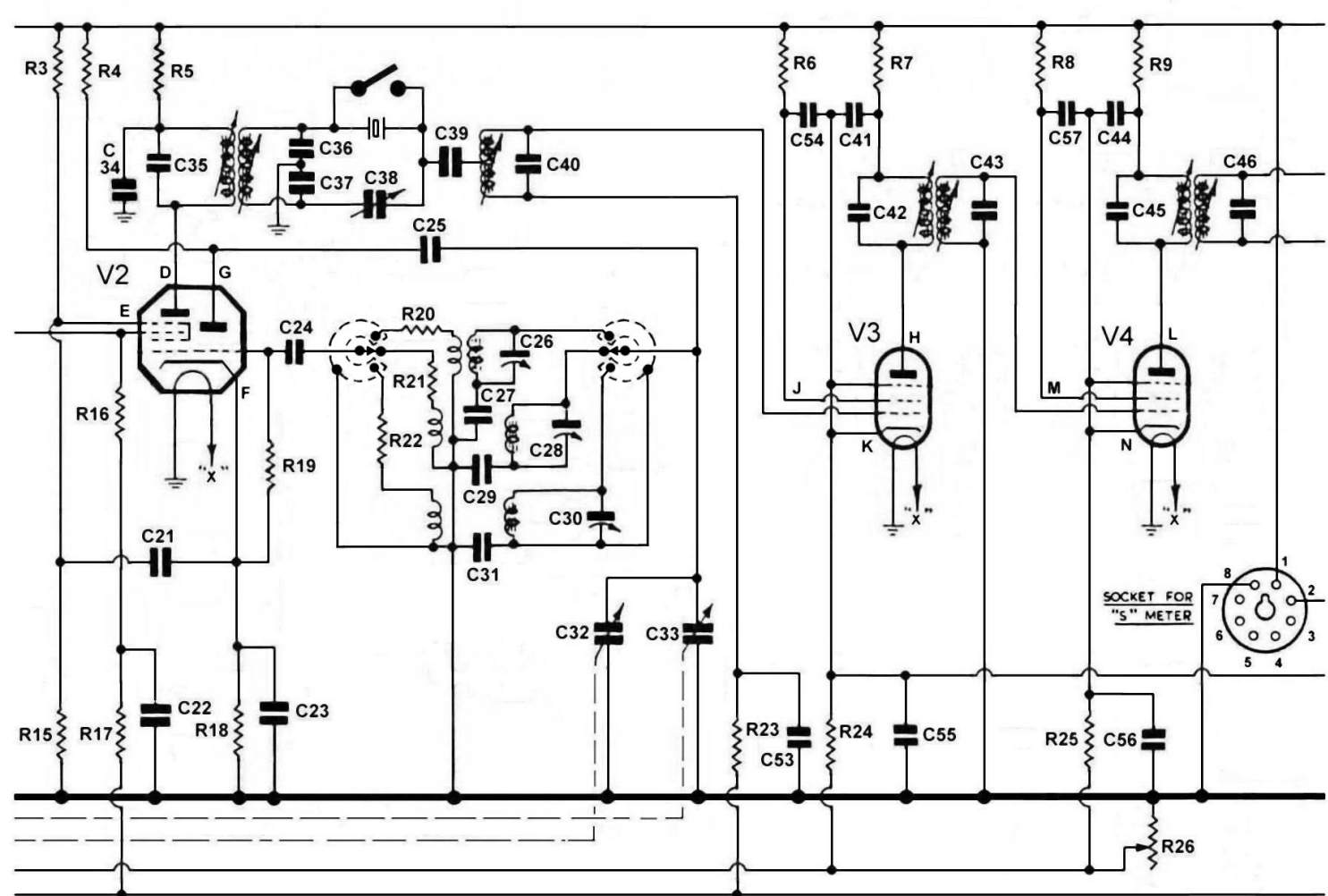


## EDDYSTONE "640"

VALVE	CONNECTIONS								
	1	2	3	4	5	6	7	8	TOP CAP
EF39	M	H	A	G2	G3	-	H	K	G1
6K8GT	-	H	A	G2	G1	AT	H	K	G3
6Q7GT	-	H	A	D1	D2	-	H	K	G
6V6GT	-	H	A	G2	G1	-	H	K	-
6X5GT	-	H	A1	-	A2	-	H	K	-
EB34	M	H	D1	K1	D2	-	H	K2	-

### CONDENSERS

C1 ...	3-20 pf.	Air Trimmer.
C2 ...	20 pf.	Ceramic Cartridge
C3 ...	3-20 pf.	Air Trimmer.
C4 ...	3-20 pf.	Air Trimmer.
C5 ...	12-366 pf.	RF Sect. 3 g.
C6 ...	9-46 pf.	Bandspread
C7 ...	100 pf.	Silvered Mica.
C8 ...	.01 mfd.	Tub. Paper.
C9 ...	.01 mfd.	Tub. Paper.
C10 ...	.01 mfd.	Tub. Paper.
C11 ...	20 pf.	Ceramic Cartridge
C12 ...	3-20 pf.	Air Trimmer.
C13 ...	10 pf.	Ceramic Cartridge
C14 ...	6 pf.	Ceramic Cartridge
C15 ...	3-20 pf.	Air Trimmer.
C16 ...	3-20 pf.	Air Trimmer.
C17 ...	12-366 pf.	FC Sect. 3 g.
C18 ...	9-46 pf.	Bandspread
C19 ...	100 pf.	Silvered Mica.
C20 ...	.01 mfd.	Tub. Paper.
C21 ...	.01 mfd.	Tub. Paper.
C22 ...	.01 mfd.	Tub. Paper.
C23 ...	.01 mfd.	Tub. Paper.
C24 ...	100 pf.	Silvered Mica.
C25 ...	100 pf.	Silvered Mica.



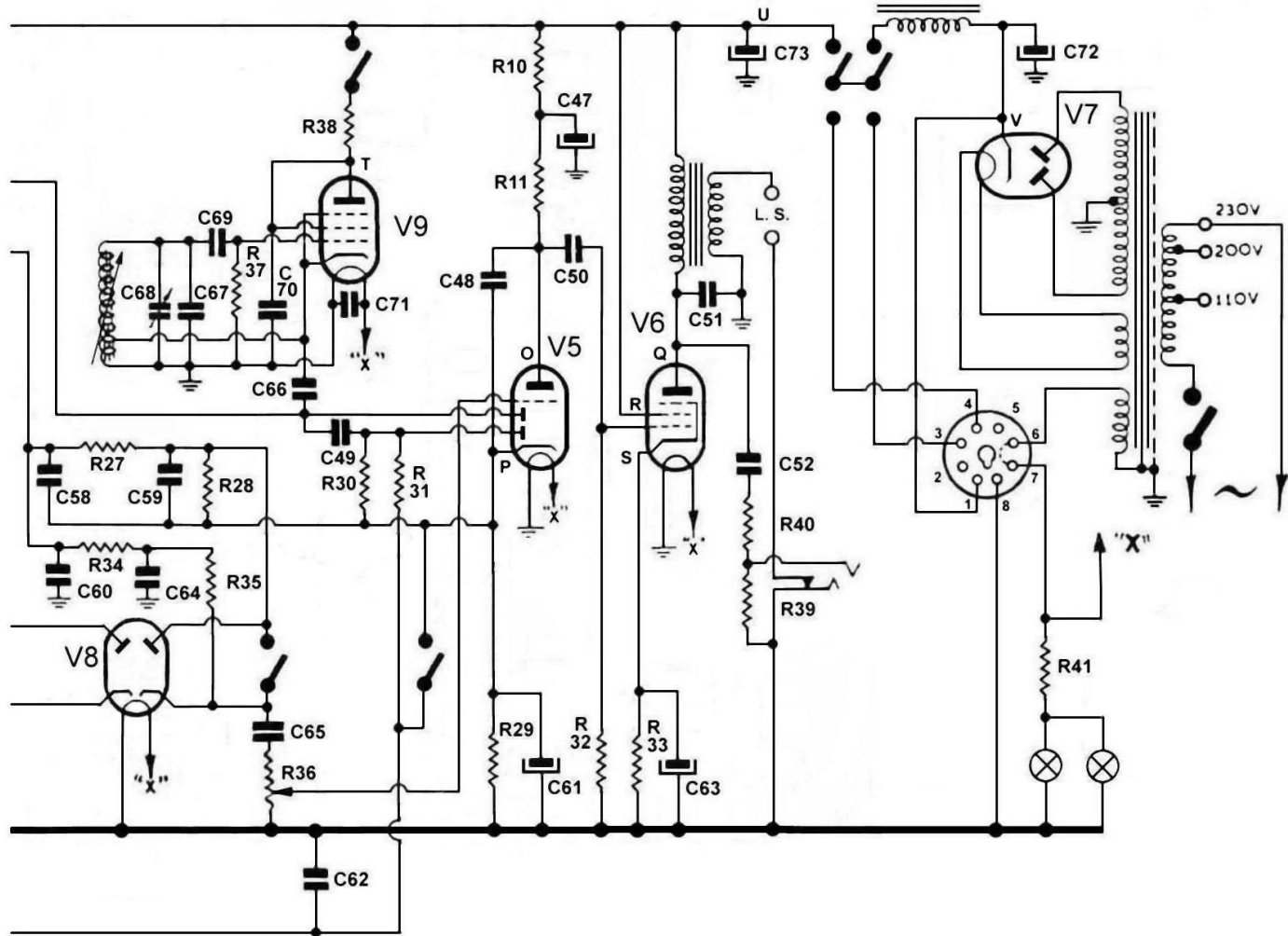
C26 ...	3-20 pf.	Ceramic Trimmer.
C27 ...	2,100 pf.	Silvered Mica.
C28 ...	3-20 pf.	Ceramic Trimmer.
C29 ...	950 pf.	Silvered Mica.
C30 ...	3-20 pf.	Ceramic Trimmer.
C31 ...	380 pf.	Silvered Mica.
C32 ...	12-366 pf.	Osc. Sect. 3 g.
C33 ...	9-46 pf.	Bandsread
C34 ...	.01 mfd.	Tub. Paper.
C35 ...	200 pf.	Silvered Mica.
C36 ...	400 pf.	Silvered Mica.
C37 ...	400 pf.	Silvered Mica.
C38 ...	Crystal	Phasing
C39 ...	20 pf.	Ceramic Cartridge
C40 ...	200 pf.	Silvered Mica.
C41 ...	.01 mfd.	Tub. Paper.
C42 ...	200 pf.	Silvered Mica.
C43 ...	200 pf.	Silvered Mica.
C44 ...	.01 mfd.	Tub. Paper.
C45 ...	200 pf.	Silvered Mica.
C46 ...	200 pf.	Silvered Mica.
C47 ...	8 mfd.	Elect.
C48 ...	.0005 mfd.	Moulded Mica.
C49 ...	40 pf.	Ceramic Cartridge
C50 ...	.01 mfd.	Moulded Mica.

C51 ...	.002 mfd.	Moulded Mica.
C52 ...	.01 mfd.	Tub. Paper.
C53 ...	.01 mfd.	Tub. Paper.
C54 ...	.01 mfd.	Tub. Paper.
C55 ...	.01 mfd.	Tub. Paper.
C56 ...	.01 mfd.	Tub. Paper.
C57 ...	.01 mfd.	Tub. Paper.
C58 ...	40 pf.	Ceramic Cartridge
C59 ...	40 pf.	Ceramic Cartridge
C60 ...	.0005 mfd.	Moulded Mica.
C61 ...	25 mfd.	Elect. at 25v.
C62 ...	.01 mfd.	Tub. Paper.
C63 ...	25 mfd.	Elect. at 25v.
C64 ...	.1 mfd.	Tub. Paper.
C65 ...	.01 mfd.	Tub. Paper.
C66 ...	3 pf.	Ceramic Cartridge
C67 ...	200 pf.	Silvered Mica.
C68 ...	BFO	Pitch Control
C69 ...	100 pf.	Silvered Mica.
C70 ...	.01 mfd.	Tub. Paper.
C71 ...	.01 mfd.	Tub. Paper.
C72 ...	8 mfd.	Elect.
C73 ...	16 mfd.	Elect.

#### RESISTORS

R1 ...	100,000 ohms.	½W.
R2 ...	4,700 ohms.	1W.
R3 ...	15,000 ohms.	1W.
R4 ...	27,000 ohms.	½W.
R5 ...	4,700 ohms.	½W.
R6 ...	100,000 ohms.	½W.
R7 ...	4,700 ohms.	½W.
R8 ...	100,000 ohms.	½W.
R9 ...	4,700 ohms.	½W.
R10 ...	27,000 ohms.	½W.
R11 ...	270,000 ohms.	½W.
R12 ...	470,000 ohms.	½W.
R13 ...	400 ohms.	½W.
R14 ...	470,000 ohms.	½W.
R15 ...	22,000 ohms.	½W.
R16 ...	470,000 ohms.	½W.
R17 ...	470,000 ohms.	½W.
R18 ...	330 ohms.	½W.
R19 ...	47,000 ohms.	½W.
R20 ...	12 ohms.	½W.

Some receivers may have resistance values according to the old standard series.



### VOLTAGE VALUES.

Voltages are between the point indicated and chassis. The Receiver should be set at 14 Mc/s on Range I with the aerial shorted out, R.F. and A.F. gain controls at maximum, crystal, noise limiter and B.F.O. switched off. Two sets of values are given, using different meters as shewn. It will be evident that the actual voltage indicated depends upon the particular meter employed. A tolerance of plus or minus 5% should be allowed on the figures given.

R21 ...	100 ohms.	½W.
R22 ...	560 ohms.	½W.
R23 ...	47,000 ohms.	½W.
R24 ...	400 ohms.	½W.
R25 ...	330 ohms.	½W.
R26 ...	10,000 ohms.	Pot.
R27 ...	100,000 ohms.	½W.
R28 ...	470,000 ohms.	½W.
R29 ...	4,700 ohms.	½W.
R30 ...	470,000 ohms.	½W.
R31 ...	470,000 ohms.	½W.
R32 ...	270,000 ohms.	½W.
R33 ...	270 ohms.	½W.
R34 ...	1.0 MΩ.	½W.
R35 ...	2.2 MΩ.	½W.
R36 ...	500,000 ohms.	Pot.
R37 ...	47,000 ohms.	½W.
R38 ...	22,000 ohms.	½W.
R39 ...	3,300 ohms.	½W.
R40 ...	33,000 ohms.	½W.
R41 ...	2.6 ohms approx.	

Circuit Ref.	Weston	Avo.
	1,000 ohms/volt	Model 40
A	200	190
B	70	60
C	3.0	2.75
D	225	200
E	85	85
F	4.1	3.8
G	75	70
H	200	190
J	75	60
K	3.0	2.75
L	200	190
M	85	70
N	2.2	2.1
O	75	40
P	1.4	0.8
Q	217	215
R	225	225
S	10.5	10
T	95	90
U	225	225
V	250	250