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HOT SALE!

EDDYSTONE "750"

ALIGNMENT INSTRUCTIONS

It is assumed that test instruments are available — in particular, a Signal Generator covering 85 kc/s. to 32 Mc/s. and provided with internal modulation (30%) and a calibrated attenuator; and an audio output meter, calibrated in milliwatts and decibels and adjustable to match an impedance of 2.5 ohms. Trimming should be carried out with a non-metallic tool such as the Eddystone Cat. No. 122T.

IF STAGES.

The controls should be set as follows:

RF Gain minimum	Band Selector Range 1.
IF Gain maximum	BFO Off.
AF Gain maximum	Noise Limiter Off.
Selectivity maximum.	

A 30% modulated input, at 85 kc/s., is applied between chassis and the grid of V4* (the second frequency changer), and the four cores in the IF transformers marked "2nd" and "3rd" in Fig. 1 adjusted to give maximum output, as indicated on the output meter. The attenuator of the S.G. should be adjusted as necessary to prevent the needle of the output meter going off the scale. An input of about 280 microvolts will normally be required to give 50 milliwatts at the speaker terminals.

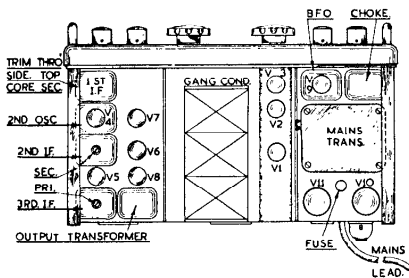


Fig. 1

Leaving the controls and connections undisturbed, the input frequency should be changed to 1620 kc/s. and the second oscillator adjusted, by moving the core in the V4 screening can (see Fig. 3), until output is maximum. Because of the slight loss in conversion, a greater input (by some 2 or 3 db) will be required to give 50 milliwatts output. The change to 85 kc/s. can be obtained with the oscillator on either the high or the low side of 1620 kc/s. and two positions of oscillator core will give output — the lower frequency position, with the core furthest in, is the correct one.

The band selector switch should now be moved to "G" and the 1620 kc/s. input applied between chassis and the stator of the centre section of the gang condenser. The primary and secondary cores in the first IF transformer (see Fig. 1) are then adjusted to give maximum output and a further very slight and very careful adjustment of the V4 oscillator core may give an improvement. The final IF sensitivity should be such that 50 milliwatts output is produced for an input (at 1620 kc/s.) of between 5 and 10 microvolts.

BFO ADJUSTMENT.

With the BFO switch at "off," a modulated signal should be applied and tuned in accurately on the receiver. The modulation is switched off, the BFO switched on and, with the pitch control at half-mesh (white spot at top), the core in the BFO unit (see Fig. 3) is set to give zero beat.

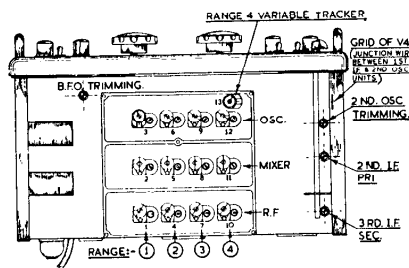


Fig. 3

RF ALIGNMENT.

The controls remain as before but with the RF gain also turned to maximum. Should it be found necessary to correct discrepancies in the scale calibration, the output from a Crystal Frequency Standard should be applied to the aerial terminals (the calibration of most Signal Generators is not accurate enough). Adjustment is then made to the cores and trimmers appropriate to each range, in the oscillator section of the coil box (see Fig. 3). Checks and adjustments should be made at the frequencies given below, using the TRIMMER CONDENSER at the higher frequency end of the scale and the CORE at the lower frequency end. The BFO should be switched on for these tests, with the pitch control at "12 o'clock." The

ceramic tracker condenser shown in Fig. 3 has been very carefully adjusted for proper tracking on Range 4 and it is not advisable to touch it.

Range 1.	13 Mc/s. and 31 Mc/s.
Range 2.	5 Mc/s. and 11 Mc/s.
Range 3.	2 Mc/s. and 4 Mc/s.
Range 4.	500 kc/s. and 1400 kc/s.

To proceed with the alignment of the RF and Mixer stages, the BFO is switched off, the crystal oscillator removed and the modulated output from the Signal Generator connected to the aerial and earth terminals, via the dummy aerial. The attenuator is set to give an output of between 10 and 20 microvolts.

A signal on 13 Mc/s. should be injected and tuned in on Range 1 of the receiver. The CORES in the RF and Mixer stages are then adjusted for maximum output as indicated by the output meter. Next, the S.G. is set to 30 Mc/s. and the output peaked by adjustment of the TRIMMER CONDENSERS. Adjustment is again made at 13 Mc/s. and the procedure repeated until no further improvement is possible.

The other ranges are aligned in the same way, using the following high and low frequency alignment points on each range:

Range	Trimmer Frequency	Core Frequency	RF Coil	Mixer Coil
1	30 Mc/s.	13 Mc/s.	1	2
2	11 Mc/s.	4.7 Mc/s.	4	5
3	4.2 Mc/s.	2 Mc/s.	7	8
4	1350 kc/s.	550 kc/s.	10	11

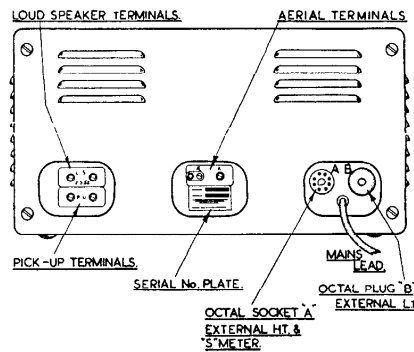


Fig. 2

VOLTAGE VALUES

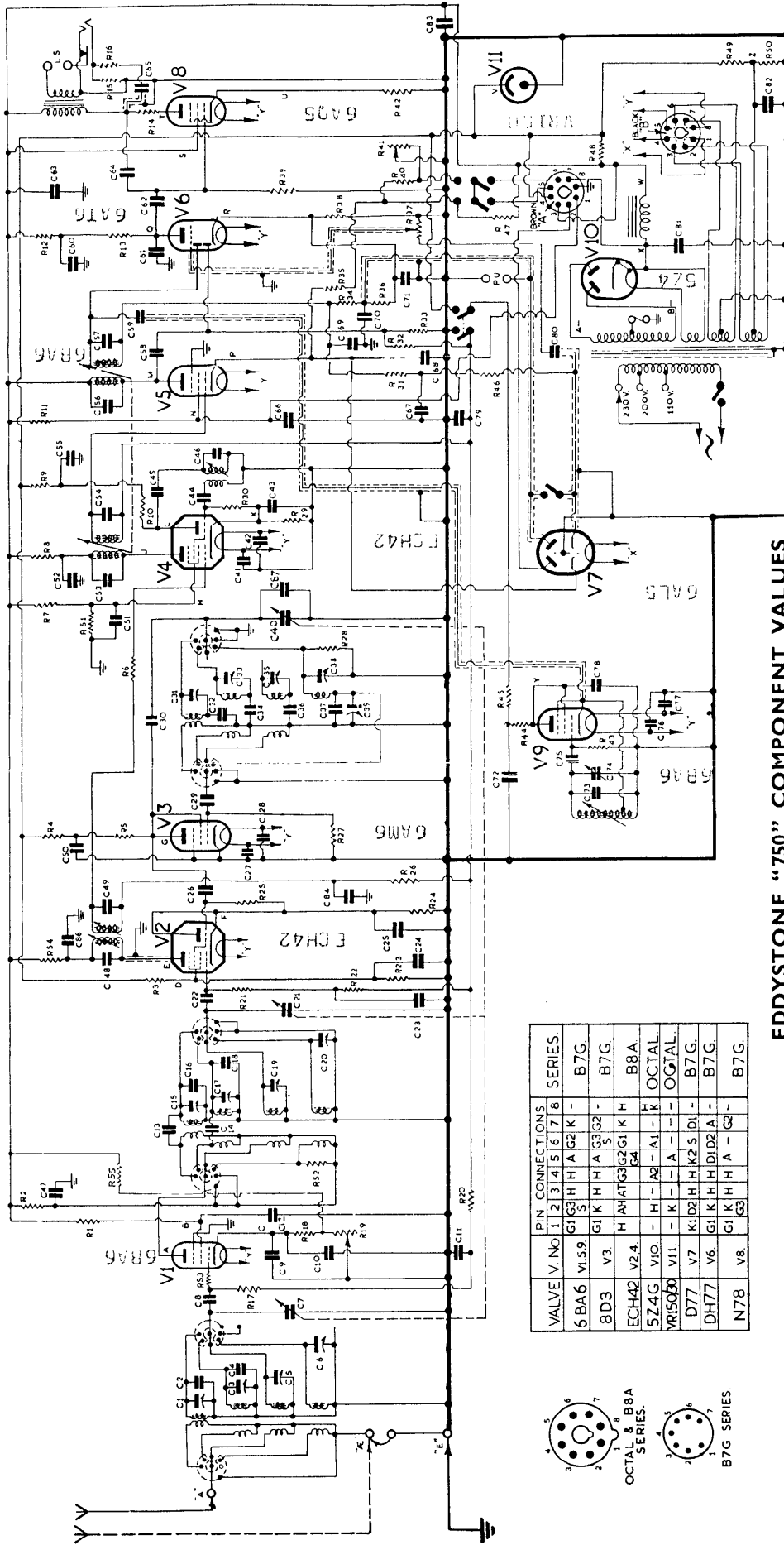
The voltages are between the point indicated and the chassis. Set the receiver at 28 Mc/s. on Range 1 with the aerial shorted out, IF and RF controls set at maximum. AF gain control set at minimum with BFO on. Two sets of values are given using different meters as shown. It will be evident that the actual voltage indicated depends on the meter employed. A tolerance of plus or minus 5% should be allowed on the values given.

Circuit Reference	Weston		Avo	
	1,000 ohms/Volt		Model 40	
A	225	volts	225	volts
B	98	"	90	"
C	1.0	"	.95	"
D	82	"	80	"
E	235	"	236	"
F	1.6	"	1.5	"
G	98	"	73	"
H	78	"	75	"
J	232	"	230	"
K	1.4	"	1.2	"
L	85	"	80	"
M	235	"	235	"
N	85	"	80	"
P	0.9	"	0.9	"
Q	65	"	13	"
R	1.0	"	0.7	"
S	235	"	235	"
T	227	"	225	"
U	4.2	"	4.1	"
V	150	"	150	"
W	235	"	235	"
X	275	"	272	"
Y	75	"	70	"
Z	2.0	"	0.9	"
A—	250	" A.C.	250	" A.C.
B—	250	" A.C.	250	" A.C.

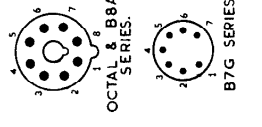
H.T. Consumption: 96 mA.

Power Consumption: 75 volt-amps.

* Accessible under the chassis (see Fig. 3).



VALVE	V. NO	1	2	3	4	5	6	7	8	SERIES
6BA6	V1,5,9	G1	G3	H	A	G2	K	-	-	B7G.
8D3	V3	G1	K	H	A	G3	G2	-	-	B7G.
ECHA2	V2,4	H	A	A1	G3	G1	K	H	-	B8A.
5Z4G	V10	-	H	-	A2	-	A1	-	K	OCTAL
VR5070	V11	-	K	-	-	-	-	-	-	OCTAL
D77	V7	K1	D2	H	K2	S	D1	-	-	B7G.
N78	V8	G1	K	H	A	-	G2	-	-	B7G.



EDDYSTONE "750" COMPONENT VALUES

- RESISTORS.**
- R1 33,000 ohms. Type 16.
 - R2 1,000 ohms. Type 16.
 - R3 10,000 ohms. Type 16.
 - R4 10,000 ohms. Type 16.
 - R5 10,000 ohms. Type 16.
 - R6 10,000 ohms. Type 16.
 - R7 27,000 ohms. Type 16.
 - R8 1,000 ohms. Type 16.
 - R9 1,000 ohms. Type 16.
 - R10 1,000 ohms. Type 16.
 - R11 33,000 ohms. Type 16.
 - R12 27,000 ohms. Type 16.
 - R13 27,000 ohms. Type 16.
 - R14 47 ohms. Type 16.
 - R15 1,000 ohms. Type 16.
 - R16 470,000 ohms. Type 16.
 - R17 470,000 ohms. Type 16.
 - R18 10,000 ohms. Type 16.
 - R19 10,000 ohms. Type 16.
 - R20 470,000 ohms. Type 16.
 - R21 470,000 ohms. Type 16.
 - R22 47,000 ohms. Type 16.
 - R23 15,000 ohms. Type 16.
 - R24 100 ohms. Type 16.
 - R25 470,000 ohms. Type 16.
 - R26 10,000 ohms. Type 16.
 - R27 22,000 ohms. Type 16.
 - R28 10,000 ohms. Type 16.
 - R29 220 ohms. Type 16.
 - R30 47,000 ohms. Type 16.
 - R31 470,000 ohms. Type 16.
 - R32 470,000 ohms. Type 16.
 - R33 470,000 ohms. Type 16.
 - R34 100,000 ohms. Type 16.
 - R35 68 ohms. Type 16.
 - R36 500,000 ohms. Type 16.
 - R37 10,000 ohms. Type 16.
 - R38 470,000 ohms. Type 16.
 - R39 470,000 ohms. Type 16.
 - R40 51,000 ohms. Type 16.
 - R41 10,000 ohms. Type 16.
 - R42 150 ohms. Type 16.
 - R43 470,000 ohms. Type 16.
 - R44 47,000 ohms. Type 16.
 - R45 2,000 ohms. Type 16.
 - R46 100,000 ohms. Type 16.
 - R47 100,000 ohms. Type 16.
 - R48 100,000 ohms. Type 16.
 - R49 100,000 ohms. Type 16.
 - R50 6,800 ohms. Type 16.
 - R51 27,000 ohms. Type 16.
 - R52 5,900 ohms. Type 16.
 - R53 1,500 ohms. Type 16.
 - R54 1,500 ohms. Type 16.
 - R55 100,000 ohms. Type 16.
 - R56 100,000 ohms. Type 16.
 - R57 100,000 ohms. Type 16.
 - R58 100,000 ohms. Type 16.
 - R59 100,000 ohms. Type 16.
 - R60 100,000 ohms. Type 16.
 - R61 100,000 ohms. Type 16.
 - R62 100,000 ohms. Type 16.
 - R63 100,000 ohms. Type 16.
 - R64 100,000 ohms. Type 16.
 - R65 100,000 ohms. Type 16.
 - R66 100,000 ohms. Type 16.
 - R67 100,000 ohms. Type 16.
 - R68 100,000 ohms. Type 16.
 - R69 100,000 ohms. Type 16.
 - R70 100,000 ohms. Type 16.
 - R71 100,000 ohms. Type 16.
 - R72 100,000 ohms. Type 16.
 - R73 100,000 ohms. Type 16.
 - R74 100,000 ohms. Type 16.
 - R75 100,000 ohms. Type 16.
 - R76 100,000 ohms. Type 16.
 - R77 100,000 ohms. Type 16.
 - R78 100,000 ohms. Type 16.
 - R79 100,000 ohms. Type 16.
 - R80 100,000 ohms. Type 16.
 - R81 100,000 ohms. Type 16.
 - R82 100,000 ohms. Type 16.
 - R83 100,000 ohms. Type 16.
 - R84 100,000 ohms. Type 16.
 - R85 100,000 ohms. Type 16.
 - R86 100,000 ohms. Type 16.
 - R87 100,000 ohms. Type 16.
 - R88 100,000 ohms. Type 16.
 - R89 100,000 ohms. Type 16.
 - R90 100,000 ohms. Type 16.
 - R91 100,000 ohms. Type 16.
 - R92 100,000 ohms. Type 16.
 - R93 100,000 ohms. Type 16.
 - R94 100,000 ohms. Type 16.
 - R95 100,000 ohms. Type 16.
 - R96 100,000 ohms. Type 16.
 - R97 100,000 ohms. Type 16.
 - R98 100,000 ohms. Type 16.
 - R99 100,000 ohms. Type 16.
 - R100 100,000 ohms. Type 16.
- CONDENSERS.**
- C1 3-23 pF. Air Trimmer.
 - C2 20 pF. Silvered Mica.
 - C3 3-23 pF. Air Trimmer.
 - C4 100 pF. Silvered Mica.
 - C5 100 pF. Silvered Mica.
 - C6 3-23 pF. Air Trimmer.
 - C7 100 pF. Silvered Mica.
 - C8 100 pF. Silvered Mica.
 - C9 100 pF. Silvered Mica.
 - C10 100 pF. Silvered Mica.
 - C11 100 pF. Silvered Mica.
 - C12 100 pF. Silvered Mica.
 - C13 100 pF. Silvered Mica.
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 - C15 100 pF. Silvered Mica.
 - C16 100 pF. Silvered Mica.
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 - C22 100 pF. Silvered Mica.
 - C23 100 pF. Silvered Mica.
 - C24 100 pF. Silvered Mica.
 - C25 100 pF. Silvered Mica.
 - C26 100 pF. Silvered Mica.
 - C27 100 pF. Silvered Mica.
 - C28 100 pF. Silvered Mica.
 - C29 100 pF. Silvered Mica.
 - C30 100 pF. Silvered Mica.
 - C31 3.5-20 pF. Ceramic Trimmer.
 - C32 100 pF. Silvered Mica.
 - C33 100 pF. Silvered Mica.
 - C34 100 pF. Silvered Mica.
 - C35 100 pF. Silvered Mica.
 - C36 100 pF. Silvered Mica.
 - C37 100 pF. Silvered Mica.
 - C38 100 pF. Silvered Mica.
 - C39 100 pF. Silvered Mica.
 - C40 10-386 pF. (Mixer Sect. Gang Cond.).
 - C41 100 pF. Silvered Mica.
 - C42 20 pF. Silvered Mica.
 - C43 100 pF. Silvered Mica.
 - C44 100 pF. Silvered Mica.
 - C45 100 pF. Silvered Mica.
 - C46 100 pF. Silvered Mica.
 - C47 100 pF. Silvered Mica.
 - C48 100 pF. Silvered Mica.
 - C49 100 pF. Silvered Mica.
 - C50 100 pF. Silvered Mica.
 - C51 100 pF. Silvered Mica.
 - C52 100 pF. Silvered Mica.
 - C53 100 pF. Silvered Mica.
 - C54 100 pF. Silvered Mica.
 - C55 100 pF. Silvered Mica.
 - C56 800 pF. Silvered Mica.
 - C57 800 pF. Silvered Mica.
 - C58 20 pF. Silvered Mica.
 - C59 20 pF. Silvered Mica.
 - C60 8 mfd. Tub. Paper.
 - C61 8 mfd. Tub. Paper.
 - C62 8 mfd. Tub. Paper.
 - C63 8 mfd. Tub. Paper.
 - C64 8 mfd. Tub. Paper.
 - C65 100 pF. Silvered Mica.
 - C66 100 pF. Silvered Mica.
 - C67 100 pF. Silvered Mica.
 - C68 100 pF. Silvered Mica.
 - C69 100 pF. Silvered Mica.
 - C70 100 pF. Silvered Mica.
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 - C96 100 pF. Silvered Mica.
 - C97 100 pF. Silvered Mica.
 - C98 100 pF. Silvered Mica.
 - C99 100 pF. Silvered Mica.
 - C100 100 pF. Silvered Mica.
- Notes:**
- * The 80 pF. may be silvered-mica or a ceramic condenser or a combination of both connected in parallel to obtain the correct temperature co-efficient for drift compensation.
 - † The 100 pF. may be silvered-mica or a ceramic condenser or a combination of both connected in parallel to obtain the correct temperature co-efficient for drift compensation.

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