G.E.C. 4046

Four-valve, two-band, pushbutton superhet operating from 2v. 30 ah., accumulator and 120 v. H.T. battery (Genalex BC230G accumulator and "Super" BB820 battery are recommended.)

to a single circuit feeding an X22 out of slot opposite, clockwise round frequency changer. Aerial and oscillator lower run, through hole in chassis, over circuits are tuned by a two-gang condenser with separate parallel and oscillator pad condensers for each band.

The I.F. valve, a W21, is followed adjustment. by an HD23 for second detection, A.V.C. and L.F. amplification. This is ribbon by releasing tension spring and resistance-capacity coupled to a KT21 fit replacement. output valve.

A.V.C. delay is obtained from R13 in junction of red and yellow sections the negative H.T. lead. Bias for the coincides with the marks just below top output stage is produced across R14 of register aperture and secure drive + R13.

Fuse bulb: Osram G.E.C. 3.5v. GANGING .15 amp. M.E.S. 12mm. diameter.

Total L.T. consumption, .7 amp. H.T. consumption, 10.5 ma.

Wavebands: 192-550, 1,000-2,000 metres. Mechanical push-button tuning is provided.

Provision is made for a 2-4 ohm extension speaker.

Battery connections: H.T.+, red, 120v.; H.T.—, white; L.T.+, red; L.T.—, black.

Replacing drive cord.—Set gang to max. Attach one end of cord to spring, Circuit.—The aerial is loosely coupled slip over hook on face of drum, lead cord four guide pulleys and back round drum half a turn clockwise. Then through remaining slot to tension

Indicator Ribbon.—Detach original

Replace chassis and set gang condenser Standing bias for X22, W21 and to maximum. Adjust ribbon so that cord under clamp provided.

I.F. Circuits.—Switch to L.W., turn tuning and volume to maximum and tone to brilliant.

Inject through .I mfd. condenser to X22 grid and adjust I.F. trimmers for maximum at 456 kc. Reduce input progressively as circuits come into line.

M.W. Band.—Adjust T3 and T1 at 214 metres.

Adjust T6 at 500 metres, rocking gang slightly.

L.W. Band .- Adjust T4 and T2 at 1,000 metres.

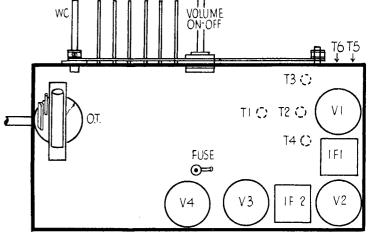
Adjust T5 at 1,818 metres, rocking gang slightly.

BUTTON ADJUSTMENT

Turn pointer fully anti-clockwise. Slacken locking screw by one turn in anti-clockwise direction. Switch to required waveband.

Tune to required station, do not release. Depress station button to full extent. Release both station button and tuning control. Repeat procedure for other buttons.

Turn pointer fully clockwise and tighten locking spindle.



A point to note is that when replacing components similar types to the originals should be used. This applies, for example, to insulated resistors and silver mica condensers.

VALVE VOLTAGES

V	Type	Electrode	Volts	Ma.
1	X22	Anode	106	.55
		Screen	53	1.4
		Osc. anode	53	1.4
2	W21	Anode	103	1.13
		Screen	106	.42
3	HD23	Anode	66	.22
4	KT21	Anode	110	4.5
		Screen	117	.9

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RESISTANCES

R		Ohms	R	Ohms	Ψ
1 2 3 4 5 6 7 8 9 10		9,900 1 meg. 99,000 33,000 33,000 440,000 55,000 440,000 1 meg.	11 12 13 14 15 16 17 18	330,000 99,000 150 100 440,000 33,000 55,000 2 meg. 2,200	tion r
	NDE	NSERS			em.
c_{-}		Mfds.	C	Mfds.	Н
1 2 3 4 5		.005 .003 20 mmfds. 50 mmfds.	10 11 12 13 14	00005 25 02 0003 30	nfo

CONDENSERS

c		Mfds.	C	Mfds.	
1		.005	10	00005	
$\frac{1}{2}$.003	11	25	
3		20 mmfds.	12	02	
4		50 mmfds.	13	0003	
5		.005	14	30	
6		.05	15		
7		,05	16	02	
8		.0003	17	25	
Θ		.02			

WINDINGS

L	Ohms.	J L	Ohms.
1 2 3 4 5 6	2.2 22 3 6 1.3 1.6	Speech coil O.T. primary O.T. secondary 1.F.1 P and S 1.F.2 P and S	2.16 1,530 .38 .7 4

