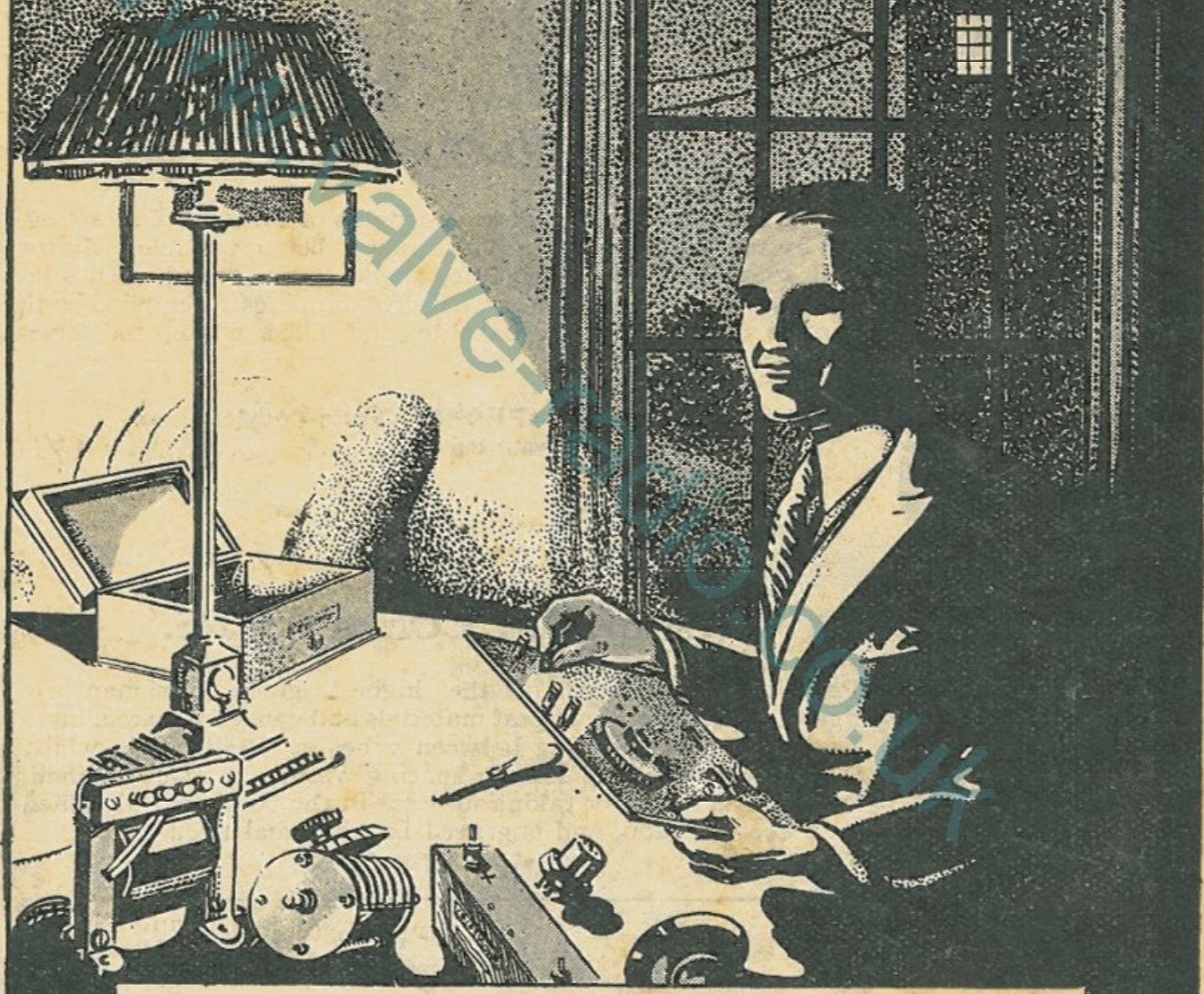
GECoPHONE

(REGD. TRADE MARK)

WIRELESS COMPONENTS



T. B. WATSON & SON Ltd.,
Electrical Engineers,
Central Buildings, STOCKTON-ON-TEES.
Telephone : Stockton 196.
Telegrams : Watson, Plum, Stockton.

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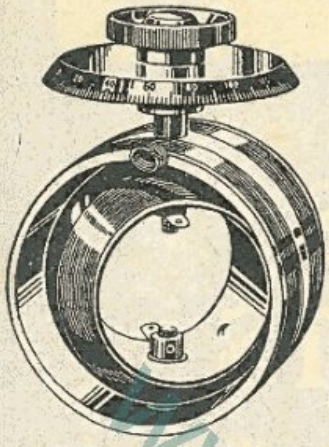


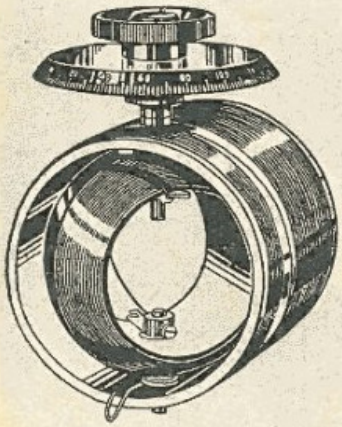
Cat. No. **B.C. 845.**

VARIOMETERS.

Wave-length range from 300–750 metres when used with standard P.O. Aerial. Stator and rotor of moulded ebonite, single layer wound with silk-covered wire. Supplied with ebonite knob, engraved bakelite dial filled white, and brass bush for one hole filling.

Cat. No. **B.C. 845.** **GECoPHONE Variometer,** 300–750 metres **10/6**

Cat. No. **B.C. 849.** Do., mounted in polished mahogany box **25/–**



Cat. No. **B.C. 847.**

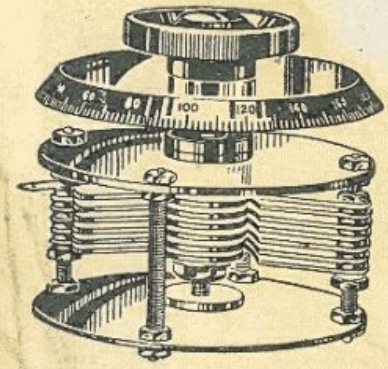
VARIO-COUPLERS.

To cover the whole band of wave-lengths of British Broadcasting, an extremely fine degree of coupling being possible. Stator and rotor of moulded ebonite, single layer wound with silk-covered wire. The primary has five tappings. Supplied with ebonite knob, engraved bakelite dial filled white, and brass bush for one hole filling.

Cat. No. **B.C. 847.** **GECoPHONE Vario-Coupler, unmounted** **17/–**

VARIABLE CONDENSERS.

Precision instruments of the highest grade workmanship, rigidly constructed from best materials and gauged to exceedingly fine limits. The spacing between vanes is 1/100th inch, whilst the tolerance allowed for the spacing washers is 1/2000th inch. Provision is made for taking up wear in the bearings. Supplied with ebonite knob, and engraved bakelite dial filled white.



Cat. No. **B.C. 833/9.**

Description.	For Panel Mounting.		Mounted in Polished Mahogany Box.	
	Cat. No.	Price each.	Cat. No.	Price each.
GECoPHONE Variable Condenser, ·0002 M.F.	**B.C. 833**	**11/–**	**B.C. 853**	**22/6**
Do. do. ·0003 M.F.	**B.C. 835**	**12/–**	**B.C. 855**	**23/–**
Do. do. ·0005 M.F.	**B.C. 837**	**14/–**	**B.C. 857**	**25/–**
Do. do. ·001 M.F.	**B.C. 839**	**20/–**	**B.C. 859**	**30/–**

B.C. 831 Condenser Vanes, per pair, **3d.**

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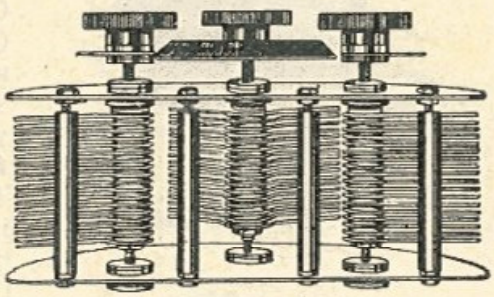
3-E.V.C. VARIABLE CONDENSER.

(Autoveyors Patents, No. 201720.)

The 3-E.V.C. Variable Condenser is an extremely efficient precision controller of oscillations in wireless circuits. It comprises three sections, each consisting of a tier of rotary or semi-rotary plates. Whilst providing all the essentials of the ordinary 2-electrode condenser the third electrode enables it to be used for many other purposes, such as for Rejector Circuits, or for Bridge or Balance Methods of Tuning. A fully descriptive booklet is available on application.



Cat. No. **B.C. 841.**

Cat. No. **B.C. 841.** **GECoPHONE 3-E.V.C. Variable Condenser,** ·001mf. for panel mounting **37/6**

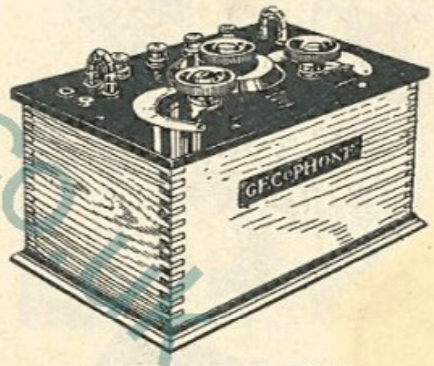
Cat. No. **B.C. 843.** Do. do. mounted in polished mahogany box **45/-**

REJECTOR UNIT

(INCORPORATING THE 3-E.V.C. CONDENSER).

(Autoveyors Patents, No. 201720.)

The GECoPHONE Rejector Unit which incorporates the 3-E.V.C. Variable Condenser, employs the most scientific method for the rejection of unwanted signals and interferences, such as spark, ship's morse, etc., known to wireless science. Its operation is extremely simple, and its efficiency has been demonstrated under the most severe conditions known. It is possible to eliminate any station within a range of one mile from a broadcasting centre. A descriptive booklet is available on application.



Cat. No. **B.C. 1341.**

Cat. No. **B.C. 1341.** **GECoPHONE Rejector Unit** (incorporating 3-E.V.C. Condenser) **60/-**

Loading Coils for above:

Cat. No. **B.C. 1342.**	To eliminate	140– 385 metres	**7/6**
Cat. No. **B.C. 1343.**	Do.	180– 515 metres	**7/6**
Cat. No. **B.C. 1344.**	Do.	260– 740 metres	**7/6**
Cat. No. **B.C. 1345.**	Do.	400–1030 metres	**7/6**
Cat. No. **B.C. 1346.**	Do.	530–1400 metres	**7/6**
Cat. No. **B.C. 1347.**	Do.	820–2150 metres	**7/6**
Cat. No. **B.C. 1348.**	Do.	1050–2950 metres	**7/6**
Cat. No. **B.C. 1349.**	Do.	1550–4250 metres	**7/6**

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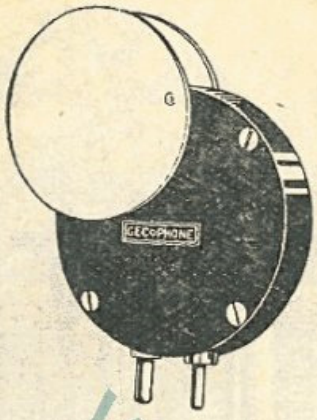


Cat. No. **B.C. 900/8.**

LOADING COILS.

Specially designed for use with **GECoPHONE CRYSTAL AND VALVE SETS.**

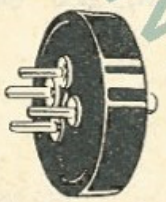
Multi-layer coils enclosed in flat ebonite cases, fitted with 2-pin plugs for insertion in the sockets provided on the Gecophone Receiving Sets.

Circular adjustable aluminium vanes hinged on each side at the top of the coil are provided for tuning.

The wave-lengths covered with the various loading coils with Crystal Set No. 1 and Valve Sets are given in **column A** in table below.

The wave-lengths covered with Crystal Set No. 2 are given in **column B.**

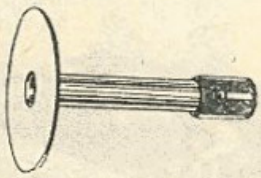
Cat. No.	Wave-lengths covered.		Price each
	A	B	
	Metres		s. d.
B.C. **900**	1800-2700	2150-3800	**9 0**
B.C. **904**	800-1150	1100-1750	**8 0**
B.C. **908**	1350-2000	1600-3000	**8 0**
B.C. **912**	3700-5000	4100-6700	**9 0**



Cat. No. **B.C. 890/950.**
REACTANCE COIL.

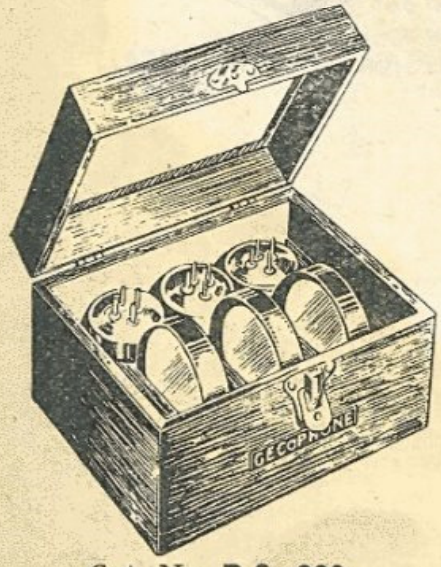
REACTANCE COILS.

These **Coils** are for use with the Gecophone Valve Sets when it is desired to increase the wave-length range. These coils are interchangeable with the standard reactance coils supplied with the set. The Control Disc allows the coupling between the coils comprising the Reactance Coil to be varied.



Cat. No. **B.C. 895.**
CONTROL DISC.

Cat. No.	Description.	Price each
		s. d.
B.C. **890**	**GECoPHONE Reactance Coil** for wave-lengths 300–500 metres (recommended for use with short aerials)	**6 6**
B.C. **892**	**GECoPHONE Reactance Coil** for wave-lengths 300–500 metres (recommended for use with long aerials)	**7 6**
B.C. **950**	**GECoPHONE Reactance Coil** for wave-lengths 1850–2850	**7 6**
B.C. **906**	**GECoPHONE Reactance Coil** for wave-lengths 775–1200	**7 6**
B.C. **910**	**GECoPHONE Reactance Coil** for wave-lengths 1200–1850	**7 6**
B.C. **914**	**GECoPHONE Reactance Coil** for 4000 metres	**7 6**
B.C. **895**	**GECoPHONE Control Disc** for Reactance Coils	**2 0**



Cat. No. **B.C. 920.**

COMPLETE SET LOADING AND REACTANCE COILS.

Comprises a complete set of Loading Coils and Reactance Coils for use with the Gecophone Valve Sets. Contained in handsome leatherette covered box with snap fastener.

Cat. No. **B.C. 920. GECoPHONE Set of Loading and Reactance Coils,** comprising :—
Three Loading Coils, **B.C. 900, B.C. 904, B.C. 908,** Reactance Coils, **B.C. 950, B.C. 906, B.C. 910** .. Price complete **55/-**

47/6

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GECOPHONE

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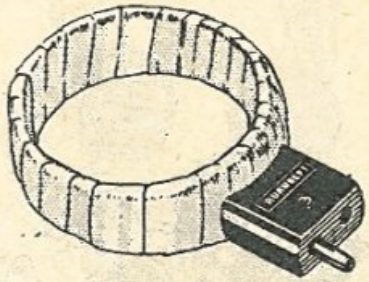
BURNDEPT COILS.

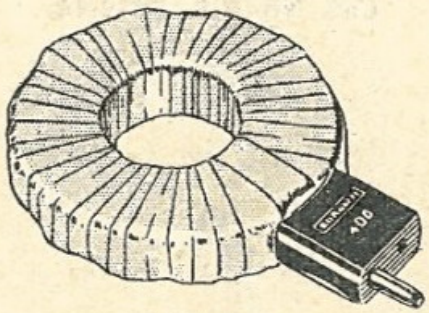
(Patent No. 168249.)

One of the most efficient types of multi-layer coil now on the market. Their construction provides for ample air space between each layer, thus reducing the distributed capacity to about one-half that of other types of multi-layer coil. Coils S1 to S4 are single layer coils, wound on ebonite, and specially designed for the reception of BROADCASTING and AMATEUR TELEPHONY, as they cover a wave-length range of 150 to about 800 metres on an average P.O. aerial. Coils 75 to 1000 are Patent Multi-layer Coils, and cover all wave-lengths from about 750 to 20,000 metres.



Cat. No. **B.C. 2121/4.**

Cat. No. **B.C. 2121.**	**Burndept Coil.**	No. S. 1	..	**4/3**
Cat. No. **B.C. 2122.**	Do.	do. No. S. 2	..	**4/3**
Cat. No. **B.C. 2135.**	Do.	do. No. S. 2½	..	**4/3**
Cat. No. **B.C. 2123.**	Do.	do. No. S. 3	..	**4/3**
Cat. No. **B.C. 2124.**	Do.	do. No. S. 4	..	**4/3**
Cat. No. **B.C. 2125.**	Do.	do. No. 75	..	**4/6**
Cat. No. **B.C. 2126.**	Do.	do. No. 100	..	**5/–**
Cat. No. **B.C. 2127.**	Do.	do. No. 150	..	**6/–**
Cat. No. **B.C. 2128.**	Do.	do. No. 200	..	**7/–**
Cat. No. **B.C. 2129.**	Do.	do. No. 300	..	**8/–**
Cat. No. **B.C. 2130.**	Do.	do. No. 400	..	**9/–**
Cat. No. **B.C. 2131.**	Do.	do. No. 500	..	**10/–**
Cat. No. **B.C. 2132.**	Do.	do. No. 750	..	**12/–**
Cat. No. **B.C. 2133.**	Do.	do. No. 1000	..	**15/–**



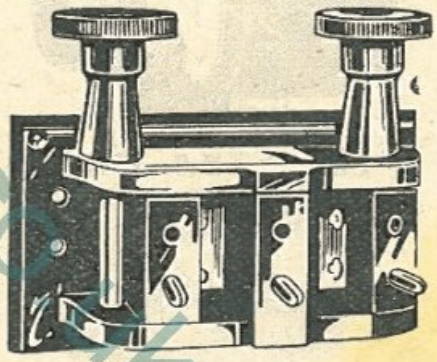
Cat. No. **B.C. 2125/33.**

COILS FOR SHORT WAVE-LENGTHS. 80–150 metres.

Cat. No. **B.C. 2120.** Set of four coils to cover wave-lengths 80–150 metres **16/–** per set of 4 coils.

Table of Inductance Values and Wave-Lengths.

Cat. No	Burndept Coil No.	Inductance in Micro-Henries.	Primary Tuning with Average P.M.G. Aerial and ·001 Variable Condenser.				Secondary Tuning with ·005 Variable Condenser in Parallel.	
			Condenser in Series.		Condenser in Parallel.			
			Min.	Max.	Min.	Max.	Min.	Max.
B.C. 2121	S. 1	35	160	270	310	395	135	274
B.C. 2122	S. 2	50	175	301	350	489	170	336
B.C. 2135	S. 2½	84	180	362	400	580	185	406
B.C. 2123	S. 3	100	210	374	430	665	230	460
B.C. 2124	S. 4	200	270	489	600	936	340	648
B.C. 2125	75	350	350	593	700	1144	450	800
B.C. 2126	100	600	450	780	950	1508	600	1072
B.C. 2127	150	1250	650	1092	1300	2184	830	1520
B.C. 2128	200	2400	900	1508	1900	3120	1200	2160
B.C. 2129	300	5000	1250	2080	2600	4264	1600	3072
B.C. 2130	400	10500	1750	3016	3700	6032	2300	4320
B.C. 2131	500	22000	2600	4472	5500	9360	3500	6480
B.C. 2132	750	52300	4000	6864	8500	14040	5400	10000
B.C. 2133	1000	109000	6000	10400	12500	21840	7900	14400

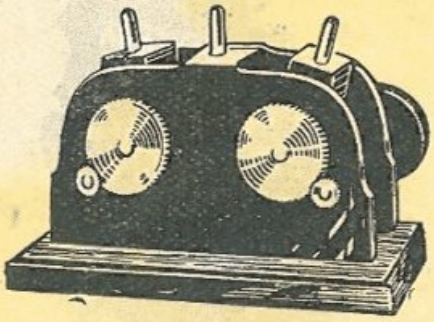


Cat. No. **B.C. 2091.**
(Front View.)

COIL HOLDERS.

Moving holders operated through a 5 : 1 gearing, permitting very fine adjustment.

Cat. No. **B.C. 2091. Three-Coil Holder,** as above **25/–**



Cat. No. **B.C. 2091.**
(Back View.)

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GECOPHONE

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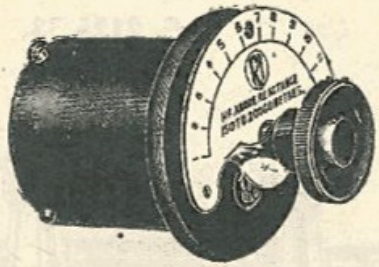
RADIO FREQUENCY TRANSFORMERS.

Cat. No. **B.C. 2812/14.**

This **High Frequency Amplifying Unit** is supplied in two patterns to cover (A) 150–4,000 metres, (B) 150–30,000 metres. Both primary and secondary windings are wound side by side on grooved ebonite formers. The coupling is extremely tight and the transformer is so designed that the self capacity of the winding is of the correct value, so that a separate tuning condenser is not required. In type A the primary has 9 tappings; in type B, 12 tappings. These Transformers are supplied with self-contained tapping switch.

Cat. No. **B.C. 2812.** **Radio Frequency Transformer,** 150 to 4,000 metres, $1\frac{15}{16} \times 2\frac{5}{16} \times 2\frac{1}{2}$ in. **35/-**

Cat. No. **B.C. 2814.** **Radio Frequency Transformer,** 150 to 30,000 metres, $3\frac{3}{4} \times 2\frac{5}{8} \times 2\frac{7}{8}$ in. **55/-**



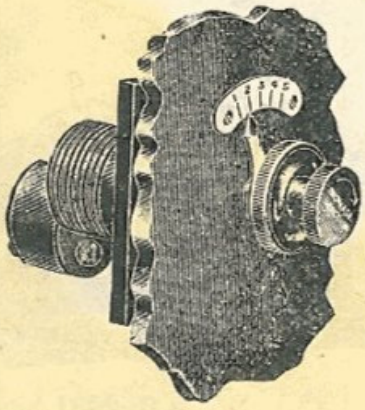
Cat. No. **B.C. 2816.**

ADJUSTABLE H.F. ANODE REACTANCE COIL.

(Self-tuned.)

Wound on grooved ebonite cylinder. Twelve tapping points with self-contained tapping switch; impedance value of each tapping calculated to keep reactance value approximately equal for all wave-lengths; range 150 to 20,000 metres; no tuning condenser required, capacity of winding rendering the coil self-tuned.

Cat. No. **B.C. 2816.** **Adjustable H.F. Anode Reactance Coil,** without Tapping Switch, $2\frac{1}{8} \times 1\frac{5}{8} \times 2\frac{1}{2}$ in. .. **35/-**



Cat. No. **B.C. 2818.**

COMBINED VARIABLE REACTION AND ANODE REACTANCE (200–4000 metres).

Adjustable anode reactance as above with six tappings to which is attached a reaction coil controlled by a knob. Designed for use with a variable ·0001 condenser.

Cat. No. **B.C. 2818.** **Adjustable Combined Inter-valve Reaction and Anode Reactance** **45/-**

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GECoPHONE

(Registered Trade Mark)

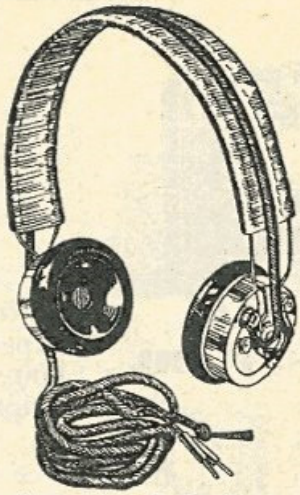
HEADPHONES.

The two Receivers, which are contained in aluminium cases, are connected together with a leather band made of the finest pigskin. The band is made readily adjustable to any sized head by means of two steel wires, which slide inside the leather strap and which are connected to the Receivers themselves by ball joints. The pressure on the ears may be increased or decreased by bending the earpieces together or apart as required.

Cat. No. **B.C. 80. GECoPHONE DoubleHeadphone,** with 6ft. flexible cord and tags, 120 ohm **22/6**
Cat. No. **B.C. 82.** Do., 2,000 ohm **24/–**
Cat. No. **B.C. 83.** Do., 4,000 ohm **25/–**
Cat. No. **B.C. 84.** Do., 6,000 ohm **35/–**
Cat. No. **B.C. 99. GECoPHONE Lorgnette Type Single Headphone,** with 6ft. flexible cord and tags, 2,000 ohm **15/6**
Cat. No. **B.C. 107.** Do., 4,000 ohm **16/–**
Cat. No. **B.C. 100. GECoPHONE Lorgnette Type Single Headphone,** with coloured handle in royal blue, or amber, 2,000 ohm .. **17/6**
Cat. No. **B.C. 108.** Do., 4,000 ohm **18/–**
Cat. No. **B.C. 91. Mahogany Box** to hold two Gecophone Receivers **17/6**
Cat. No. **B.C. 95. Spare Ear Cap.** Composition .. **6d.**
Cat. No. **B.C. 96.** Do., Ebonite **1/3**
Cat. No. **B.C. 97. Headphone Cord only,** 6 feet .. **4/–**
Cat. No. **B.C. 111. Tag Ends** for Headphone Cord **1d.**
Cat. No. **B.C. 93. Stalley Diaphragm** .. .. **6d.**

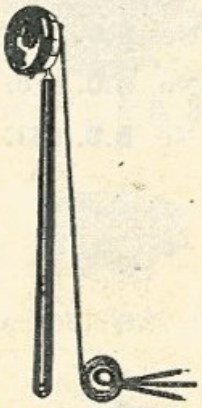
When used in connection with Gecophone Receiving Sets, a special 2-pin plug (Cat. No. B.C. 493) is required.

Cat. No. **B.C. 493. 2-pin plug** for Headgear Receiver **1/8**



Cat. No. **B.C. 80/4.**

Cat. No. **B.C. 493.**

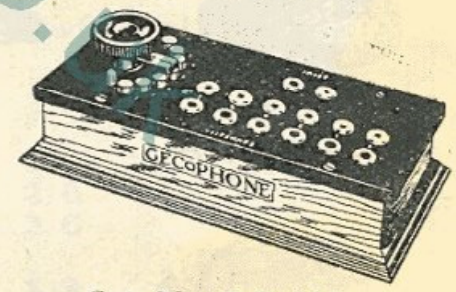


Cat. No. **B.C. 99.**
(Lorgnette type.)

HEADPHONE DISTRIBUTION BOX.

Where more than two sets of headphones are desired to be used, the **GECoPHONE 6-WAY HEADGEAR DISTRIBUTION BOX,** here illustrated, should be used. A switch enables any number of phones up to six to be used in series.

Cat. No. **B.C. 103. GECoPHONE 6-way Headgear Distribution Box with Switch** **17/–**
Cat. No. **B.C. 105. 12 feet FLEXIBLE CORD** fitted with 2-pin Plugs at each end for connecting above to Receiving Sets **6/–**



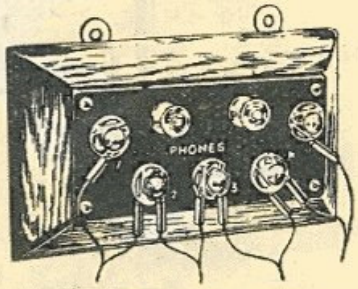
Cat. No. **B.C. 103.**

HEADPHONE AUTO-SERIES DISTRIBUTION BOARD.

(Patent applied for.)

In order to meet the requirements of headphones fitted with tag ends to the connecting cord, the distribution board here illustrated has been introduced. The action of placing the telephone tags under the spring terminals automatically places the headphones in series.

Cat. No. **B.C. 320. GECoPHONE AUTO-SERIES Headphone Distribution Board for four headphones** **8/6**



Cat. No. **B.C. 320.**

www.wireless.co.uk

GECoPHONE

(Registered Trade Mark)

Cat. No. **B.C. 869.**

INTERVALVE and TELEPHONE TRANSFORMERS.

The Gecophone Intervalve Transformer gives maximum amplification with freedom from distortion and extraneous noises. The core consists of specially stamped laminations, whilst the windings are tested to 1,000 volts between winding and between windings and frame. Connections are brought out to telephone type terminals.

Ratio, 1 : 4. Inductance limits : Primary, 65 henries ; Secondary, 60 henries.

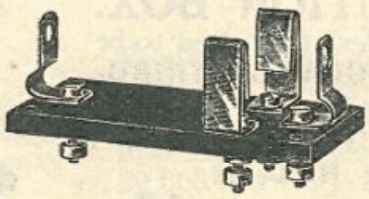
The Gecophone Telephone Transformer is constructed on similar lines to the Gecophone Intervalve Transformer, the impedance of the windings being correctly designed to give best results. Inductance limits : Primary, 7 henries ; Secondary, 3 henries.

In the manufacture of these transformers, the windings are tested on A.C. frequencies as used in wireless, to give a specified inductance. They are similar to those supplied in large quantities to H.M. Government.

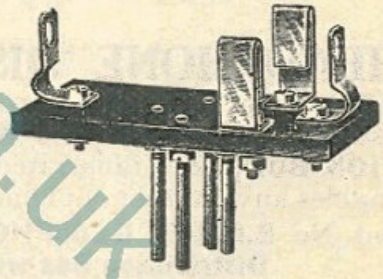
Cat. No. **B.C. 869.**	**GECoPHONE Intervalve Transformer** (Ratio, 1 : 4) ..	**25/-**
Cat. No. **B.C. 870.**	**GECoPHONE Intervalve Transformer** (Ratio, 1 : 2) ..	**22/6**
Cat. No. **B.C. 861.**	**GECoPHONE Telephone Transformer**	**25/-**

VALVE HOLDERS.

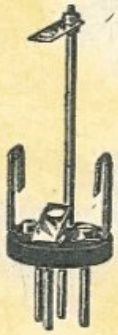
Cat. No. **B.C. 821.**



Cat. No. **B.C. 824.**



Cat. No. **B.C. 825.**



Cat. No. **B.C. 826.**

Cat. No. **B.C. 821.**	" A " Type Valve Holder, best moulded ebonite, tinned pins for soldering, for panel mounting ..	**7d.**
Cat. No. **B.C. 824.**	Valve Holder for V-24 valves, horizontal pattern, screwed pins and nuts	**2/-**
Cat. No. **B.C. 825.**	Do. with 4 pins to fit into any four-pin socket	**3/6**
Cat. No. **B.C. 826.**	Do., upright pattern ..	**4/-**

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GECoPHONE

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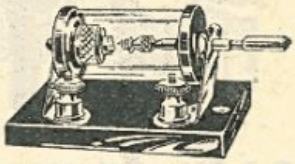
CRYSTAL DETECTOR.

The enclosed type Detector, **B.C. 46,** has an interchangeable crystal cup requiring no screws, and the metal parts are of lacquered brass.



Cat. No. **B.C. 46.**

Cat. No. **B.C. 46.** **GECoPHONE Enclosed Type Crystal Detector,** including "Gecosite" Crystal **3/3**
Cat. No. **B.C. 48.** Do., unmounted and without crystal .. **2/6**

GECOSITE CRYSTALS.

Cat. No. **B.C. 42.**

THE GECOSITE CRYSTAL has been developed as the result of much research work, and is one of the most sensitive crystals yet produced. Supplied mounted in nickel-plated cups or unmounted.

Cat. No. **B.C. 40.** **Gecosite Crystal,** unmounted **1/3**
Cat. No. **B.C. 42.** Do., mounted in nickel-plated Cup .. **1/9**

BAKELITE DIALS AND KNOBS.

Cat. No. **B.C. 863.**

Best quality Bakelite dials and knobs. The dials are engraved 0–180° and filled white. The knobs have a metal nut in centre of knob tapped 2 B.A.

Cat. No. **B.C. 865.**

Cat. No. **B.C. 863.** **BAKELITE DIAL,** engraved 0–180°, with ⅜-in. hole .. .. **10d.**
Cat. No. **B.C. 864.** Do., with 2 B.A. clearance hole .. **10d.**
Cat. No. **B.C. 865.** Do. **KNOB** .. .. **4d.**

FIXED CONDENSERS.

Constructed from best quality tinfoil with mica dielectric. Enclosed in ebonite case, with metal tags for soldering.
A tubular type condenser is also supplied, as illustrated.

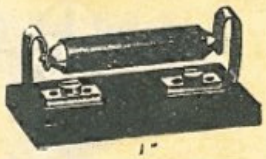
Cat. No. **B.C. 799.**

Cat. No. **B.C. 805.** **GECoPHONE Fixed Condenser,** ·001 M.F. **2/6**
Cat. No. **B.C. 807.** Do., ·002 M.F. **2/6**
Cat. No. **B.C. 808.** Do., ·003 M.F. **2/6**
Cat. No. **B.C. 799.** **GECoPHONE Tubular Condenser,** ·0002 M.F.D. **1/3**

Cat. No. **B.C. 805/8.**

GRID LEAKS.

These **GRID LEAKS** are cylindrical in form. Moulded base and terminals for holding these grid leaks are supplied separately.



Cat. No. **B.C. 801/3.**

Cat. No. **B.C. 801.** **GECoPHONE Grid Leak,** 2 megohm .. **1/6**
Cat. No. **B.C. 802.** Do. 1 meoghm **1/6**
Cat. No. **B.C. 803.** **Base** and terminals for above **2/6**

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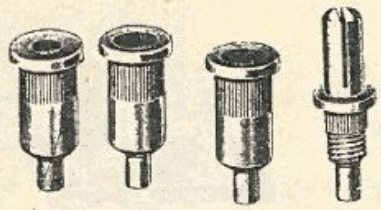
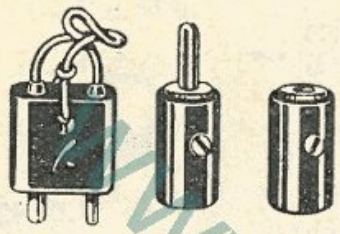


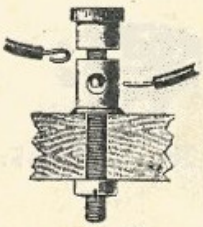
B.C. 503. B.C. 490. B.C. 505.



B.C. 493. B.C. 491. B.C. 495.

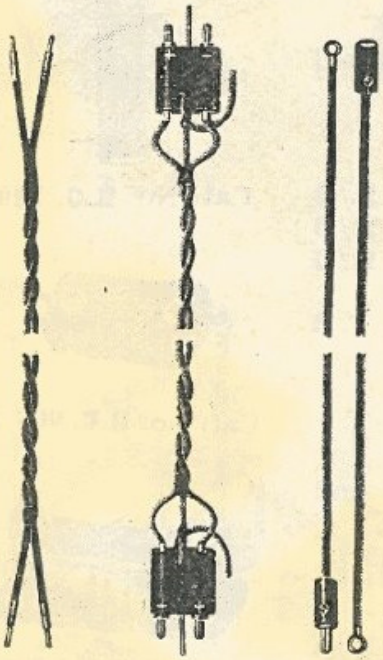
L. 5420.

L. 5408.



L. 5452.

L. 5470.



Cat. No. B.C.101. Cat. No. B.C. 115. Cat. No. B.C. 487.

PLUGS AND SOCKETS.

Cat. No. **B.C. 503.** Nickel-plated Telephone Plug Sockets, per dozen pairs **6/–**; per gross pairs **66/–**

Cat. No. **B.C. 490.** Nickel-plated Aerial Socket, large hole, per dozen **3/–**; per gross.. **33/–**

Cat. No. **B.C. 505.** Nickel-plated Pin do., per dozen **3/–**; per gross **33/–**

Cat. No. **B.C. 493.** 2-Pin Plug, non-reversible, each **1/8**

Cat. No. **B.C. 494.** Extension Plug for use with **B.C. 493** Plug, each **2/6**

Cat. No. **B.C. 497.** 2-Pin Plug for High Tension Sockets on Gecophone 2-Valve Set, each **1/9**

Cat. No. **B.C. 491.** Aerial Plug, for connecting Lead-in to set, each **1/3**

Cat. No. **B.C. 495.** Earth Socket, for connecting set to earth, each **1/3**

Cat. No. **B.C. 499.** 3-Pin L.T. Plug, each .. **2/–**

TERMINALS.

Cat. No. **L. 5420.** Nickel-plated Terminal with Cross Saw Cut for clamping connecting wires, complete with Black Nut and Soldering Tag, per dozen **7/6**; per gross **85/–**

Cat. No. **L. 5408.** Brass Terminal, as illustrated, per dozen **2/6**; per gross **28/6**

Cat. No. **L. 5452.** Special Terminal, suitable for the reception of Hook, Wire or Pin End, per dozen **2/6**; per gross **28/6**

Cat. No. **L. 5470.** Spring Clip Terminal, per dozen **1/6**; per gross **16/6**

CONNECTING CORDS.

Cat. No. **B.C. 97.** Headgear Receiver Cord with Tags, 6 feet, each **4/–**

Cat. No. **B.C. 101.** Two Conductor Cord with tinned Copper Tag Ends, Cotton Braided red and black, 3 feet, each .. **2/6**

Cat. No. **B.C. 115.** Two Conductor Cord for L.T. supply, etc., Cotton Braided with 3-pin non-reversible Plug each end, 5 feet 6 ins. **6/–**

Cat. No. **B.C. 487.** Aerial Connecting Lead, Cotton Braided, Wire Loop one end, Plug at other end, 10 feet. and Earth Connecting Lead, Cotton Braided, Wire Loop one end, Socket at other, 10 feet **6/8**

EBONITE PANELS.

Best quality ebonite panels, undrilled. Special matt finish to prevent surface leakage.

Cat. No. **B.C. 300.** Ebonite Panel, $7\frac{1}{2}'' \times 4\frac{1}{2}'' \times \frac{1}{4}''$ **2/6**

Cat. No. **B.C. 301.** Do., $11'' \times 7\frac{1}{2}'' \times \frac{1}{4}''$ **5/3**

Cat. No. **B.C. 302.** Do., $9\frac{3}{4}'' \times 8\frac{1}{16}'' \times \frac{1}{4}''$ **5/3**

Cat. No. **B.C. 303.** Do., $10'' \times 6\frac{3}{8}'' \times \frac{1}{4}''$ **4/9**

Cat. No. **B.C. 304.** Do., $7'' \times 6\frac{3}{8}'' \times \frac{1}{4}''$ **3/6**

Cat. No. **B.C. 305.** Do., $12\frac{3}{4}'' \times 9\frac{1}{4}'' \times \frac{1}{4}''$ **7/6**

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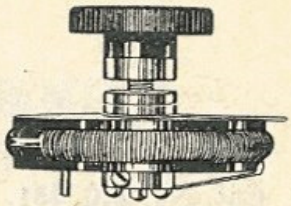
GECoPHONE

(Registered Trade Mark)

FILAMENT RESISTANCES.



Cat. No. **B.C. 867/871.**

Particularly smooth in action and enable very fine adjustments to be made. The resistance wire is wound on a former of heat-resisting material. This resistance has a maximum value of either 4–4·5 ohms or 2·5–2·75 ohms.

Cat. No. **B.C. 867.** **GECoPHONE Filament Resistance** 4–4·5 ohms (for one valve) .. **4/6**

Cat. No. **B.C. 871.** Do., 2·5–2·75 ohms (for two valves) **4/6**

Cat. No. **B.C. 877.**

FOR USE WITH D.E.3. OR VALVES OF SIMILAR TYPE.

This resistance is wound to a maximum of approx. 55 ohms, and is particularly suitable for use with D.E.3. Valves or valves of similar type. The gauge of wire used will permit of four D.E.3 Valves being used from one resistance, the carrying capacity of the wire being approximately ·25 amps. It is fitted with a dial and pointer calibrated in ohms, which shows the actual amount of resistance in circuit.

Cat. No. **B.C. 877.** **GECoPHONE** 55 ohm **Variable Filament Resistance** **7/6**

Cat. No. **B.C. 875.**

REGULATING RESISTANCE ADAPTER.

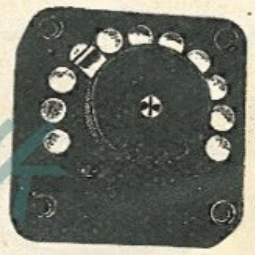
The **GECoPHONE Regulating Resistance Adapter** is an external resistance variable up to 35 ohms which enables sets with ordinary filament resistances to be used with D.E.3. Valves. Two types are provided, one for use with Gecophone Plugs and Sockets, and the other for terminal connections.

Cat. No. **B.C. 880.**

Cat. No. **B.C. 875.** **GECoPHONE Regulating Resistance Adapter,** with plug and sockets **12/6**

Cat. No. **B.C. 880.** Do., for terminal connections **12/6**

STUD SWITCHES.



Cat. No. **B.C. 809/813.**

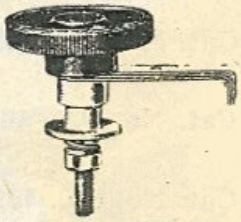
Supplied in 5, 11, and 15-way, moulded ebonite base and knob.

Cat. No. **B.C. 809.** **GECoPHONE Stud Switch** on moulded ebonite base, 5-way .. **10/–**

Cat. No. **B.C. 811.** Do., 11-way **10/6**

Cat. No. **B.C. 813.** Do., 15-way **11/–**

SWITCH ARMS and CONTACT STUDS.



Cat. No. **B.C. 818.**

Switch arm consists of ebonite knob with 4-leaf laminated switch arm, brass spindle spring washer, bush and two nuts. Contact studs are of brass, 6 B.A. thread, and hexagonal nut.

Cat. No. **B.C. 818.** **GECoPHONE Switch Arm,** each **2/–**

Cat. No. **B.C. 819.** **Contact Studs** complete with nut, brass, per dozen **1/6**; per gross .. **17/6**

Cat. No. **B.C. 819.**

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AERIAL EQUIPMENT.

Cat. No. **B.C. 451.**	**GECoPHONE Aerial Wire.** 70-ft. coil of enamelled copper wire, complete with down-lead locator and two galvanised end shackles	**8/-**
Cat. No. **B.C. 453.**	Ditto ditto 100-ft. coil	**9/-**
Cat. No. **B.C. 455.**	**GECoPHONE Aerial Insulator.** Moulded Bakelite, with galvanised fixing eyes ..	**2/2**
Cat. No. **B.C. 483.**	**GECoPHONE Aerial Insulator**	**1/-**
Cat. No. **B.C. 457.**	**GECoPHONE Spreader** (for twin-wire aerial) made of pitch-pine, coated with preservative compound, with two galvanised end fittings for attachment to bridle and aerial insulators	**6/-**
Cat. No. **B.C. 459.**	**GECoPHONE Bridle.** Best white manilla rope, tarred, fitted with three galvanised thimbles for attaching to spreader and aerial halyard	**2/-**
Cat. No. **B.C. 461.**	**GECoPHONE Halyard.** Length 20 yards. Best white manilla rope, tarred, fitted with twin hooks for attachment to bridle	**5/6**
Cat. No. **B.C. 463.**	**GECoPHONE Pulley Block,** galvanised, with hooks	**1/-**
Cat. No. **B.C. 465.**	**GECoPHONE Fixing Eye.** Galvanised iron	**1/-**
Cat. No. **B.C. 449.**	**Galvanised Wall Spike**	**4d.**
Cat. No. **B.C. 467.**	**GECoPHONE Earth Clip**	**1/3**
Cat. No. **B.C. 469.**	**GECoPHONE Leading-in Terminal.** Terminal at each end. Connector enclosed in ebonite tube for fixing through window frame	**1/-**
Cat. No. **B.C. 498.**	**GECoPHONE Earthing Switch**	**2/-**

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GECoPHONE

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COMPLETE AERIAL EQUIPMENT.

SINGLE POST OFFICE AERIAL EQUIPMENT.

Cat. No. **B.C. 501.**

This equipment is supplied as a complete outfit, and consists of the following accessories :—

One No. **B.C. 453** 100-ft. coil of 7/22 enamelled copper aerial wire, fitted with down-lead locator and end shackles ; Two No. **B.C. 455** Aerial Insulators ; One No. **B.C. 461** 20-yard Halyard ; One No. **B.C. 463** Pulley Block ; One No. **B.C. 465** Fixing Eye ; One No. **B.C. 467** Earth Clip ; One No. **B.C. 469** Leading-in Terminal ; One No. **B.C. 471** Aerial Earthing Switch.

Complete Outfit **25/-**

TWIN POST OFFICE AERIAL EQUIPMENT.

Cat. No. **B.C. 550.**

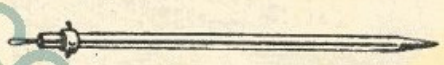
This equipment is supplied as a complete outfit, and consists of the following accessories :—

Two No. **B.C. 451** 70-ft. coils of 7/22 enamelled copper wire, fitted with down-lead locators and end shackles ; Four No. **B.C. 455** Aerial Insulators ; Two No. **B.C. 457** Spreaders, with end fittings ; Two No. **B.C. 459** Bridles, with thimbles ; Two No. **B.C. 461** 20-yard Halyards ; Two No. **B.C. 463** Pulley Blocks ; Two No. **B.C. 465** Fixing Eyes ; One No. **B.C. 467** Earth Clip ; One No. **B.C. 469** Leading-in Terminal ; One No. **B.C. 471** Aerial Earthing Switch.

Complete Outfit **60/-**

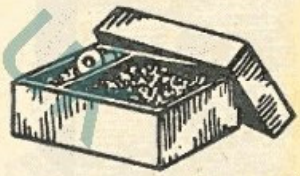
When complete outfits as scheduled above are not required, separate component accessories can be supplied to meet requirements.

TUBULAR EARTH FOR WIRELESS.



(KILLINGWORTH HEDGES PATENT.)

The **GECoPHONE** (Hedges Patent) Tubular Earth consists of a specially pointed tube fitted with and complete with 15-feet earth connecting wire. By its use an extremely efficient earth connection can be made with a minimum of trouble.



Cat. No. **B.C. 508.**

Cat. No. **B.C. 508.** **GECoPHONE Hedges Tubular Earth,** 2 feet 6 inches .. **10/-**

LIGHTNING ARRESTER.

The **GECoPHONE** Lightning Arrester gives full protection to both the set and the building in which it is installed. It should be fitted near the lead-in, the upper terminal being connected to the aerial and the lower to earth. The cover is a Bakelite Moulding.

Cat. No. **B.C. 509.**

Cat. No. **B.C. 509.** **GECoPHONE Lightning Arrester** **5/6**

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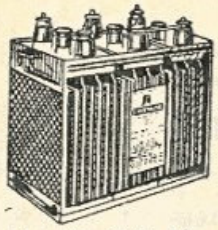
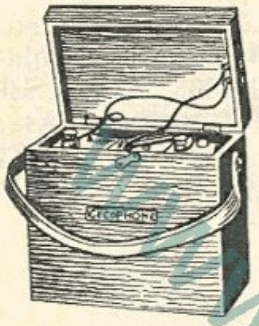


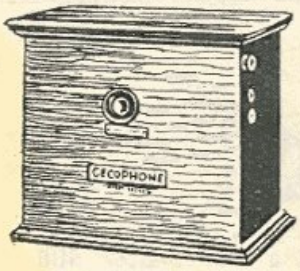
Cat. No. **B.C. 50.**



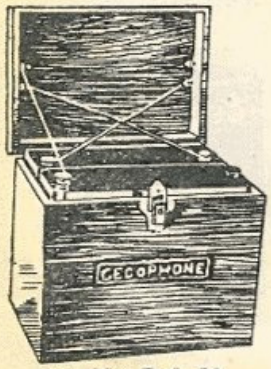
Cat. No. **B.C. 55.**

Cat. No. **L. 4918.**

Cat. No. **L. 4919.**



Cat. No. **B.C. 63.**



Cat. No. **B.C. 59.**

ACCUMULATORS.

Capacities quoted are actual, and the accumulators are well able to stand up to the heavy discharge rate required in wireless work. Cat. No. **B.C. 50** is arranged in three 2-volt units, each unit being connected together by detachable straps so that the cells can be arranged to give either (a) 6 volt 30 amp., or (b) 2 volt 90 amp., thus rendering the accumulator suitable for either "R" or "D.E.R." Type Valves.

All sizes can be supplied in teak acid-resisting cases, with leather strap handle, and fitted with sockets and special non-reversible 2-pin plug, as illustrated on page 10, and 6ft. flexible connecting cord.

Cat. No. **B.C. 50.** **GECoPHONE Accumulator,** 6 volt 30 amp. (or 2 volt 90 amp.) **48/6**

Cat. No. **B.C. 51.** Do., 6 volt 105 amp. (or 2 volt 315 amp.) **175/–**

Cat. No. **B.C. 55.** **GECoPHONE Accumulator, B.C. 50,** in teak case, complete with Flexible Cord and Plugs **72/–**

Cat. No. **B.C. 57.** Do., **B.C. 51,** do. **240/–**

LOW TENSION DRY BATTERIES.

Specially designed for use with the Marconi Osram D.E.3 Valve or similar type. Of ample capacity, permitting over 800 hours' use to be obtained for one valve. Two valves can be supplied from one battery. As the voltage of these batteries is 4½ volts a variable resistance, with a maximum value of 25 ohms, must be used with them.

Cat. No. **L. 4918.** **GECoPHONE 4½-volt Dry Battery** with Sockets .. **9/–**

Cat. No. **L. 4919.** Do., with Terminals.. .. **9/–**

B.C. 63 consists of two **L. 4919** Batteries enclosed in a box, with leads taken to sockets at each end. This is specially suitable for use with four D.E.3 Valves when separate current supply can be arranged to the valves. The **B.C. 875** adapter can be inserted at each end.

B.C. 59 consists of a polished mahogany box containing one **L. 4919** Battery and fitted with a variable resistance of 20 ohms. Supplied complete with cord and plug.

Cat. No. **B.C. 59.** **Primary Battery,** in mahogany box **42/6**

Cat. No. **B.C. 63.** **Box** with two **L. 4919** Batteries **30/–**

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Registered Trade Mark)

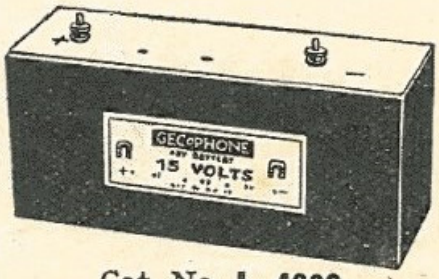
HIGH TENSION BATTERIES.

Supplied with tappings to give 4½, 6, 9 or 15 volts. Cat. No. **L. 4908** is constructed with small cells and is of light weight. Cat. No. **L. 4909** has larger cells, and is of greater capacity, and is particularly recommended when loud speakers are used. The life of the **L. 4909** cell is three times that of the **L. 4908** cell.

Cat. No. **L. 4908.** **GECoPHONE 15-volt High Tension Dry Battery** (Small), 9⅛″ × 2⅞″ × ⅞″ **3/6**

Cat. No. **L. 4909.** Do. do. (Large), 6¾″ × 3⅝″ × 2⅝″ **6/–**

Cat. No. **L. 4908.**



Cat. No. **L. 4909.**

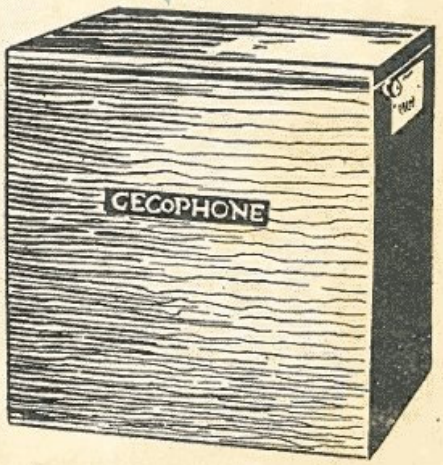
HIGH TENSION BATTERY UNITS.

The Gecophone High Tension Battery Unit, here illustrated, forms the best and most convenient method of housing the H.T. Battery. The boxes are of polished mahogany. Sockets are provided at the side for the connecting lead. Supplied in two sizes, 60 volts and 120 volts, the batteries being of the large **L. 4909** type illustrated above, which are particularly suitable for use with multi-valve sets, amplifiers, etc., requiring a large amount of current. Complete with plugs and 3 feet flexible connecting leads.

Cat. No. **B.C. 65.** **GECoPHONE 60-volt H.T. Battery Unit,** complete with 3ft. flexible cords and plug **60/–**

Cat. No. **B.C. 71.** Do., do. **120-volt Unit .. 100/–**

Cat. No. **B.C. 65.**



Cat. No. **B.C. 71.**

www.valve-radio.co.uk