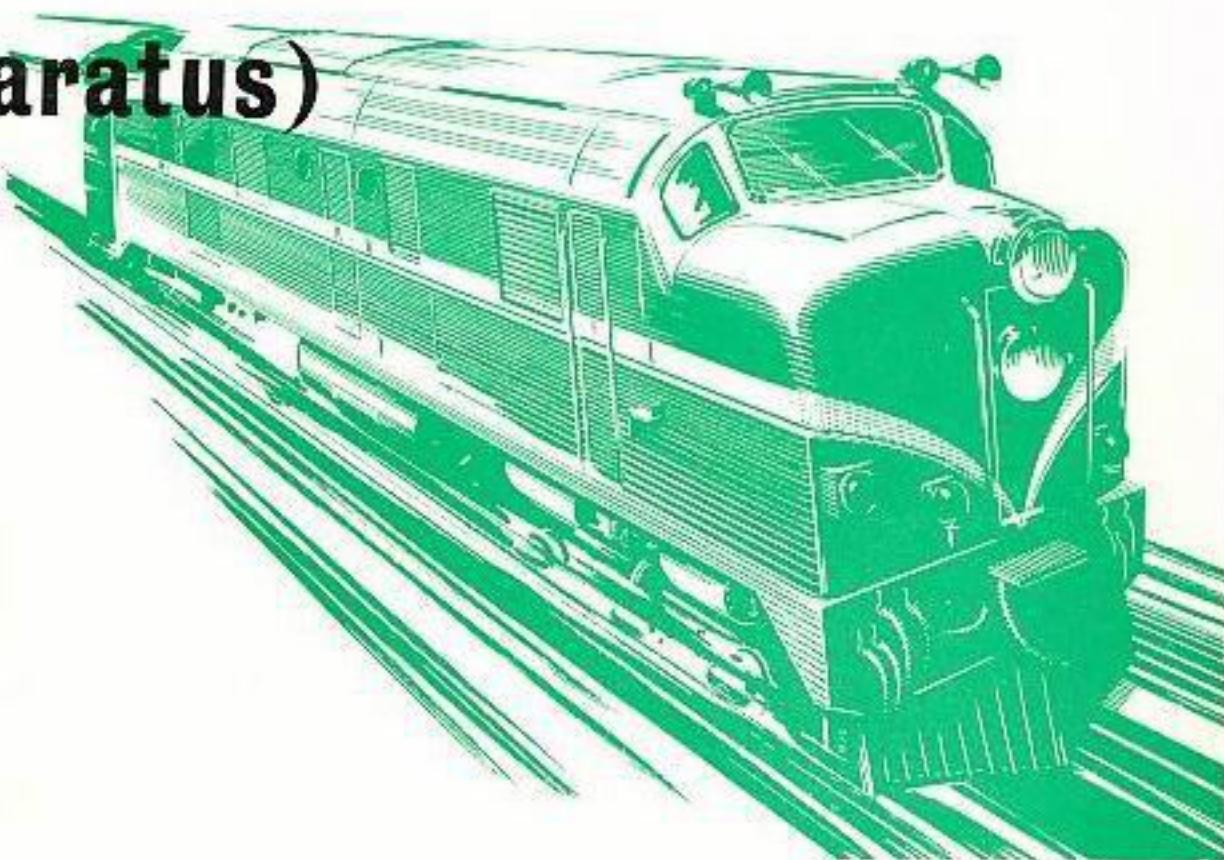


TELEPHONE CATALOGUE

**Railway Systems
(Apparatus)**



Railway Systems (Apparatus)



Standard Telephones and Cables Limited

TELEPHONE DIVISION

OAKLEIGH ROAD, NEW SOUTHGATE, LONDON, N.11

Telephone: Enterprise 1234

Telegrams: Essteecee, Telex London

CIRCUIT BREAKERS

4001-A CIRCUIT BREAKER

The 4001-A Circuit Breaker is an overload circuit breaker intended for use in the main battery circuit of traffic control systems to protect the relays and associated apparatus from excess currents due to short circuits. It is of the hand set type held in by a toggle mechanism and tripped by an over-current coil. The mechanism is gravity released and for that reason the circuit breaker must be used in a vertical position.

The 4001-A Circuit Breaker is normally set to carry 0.5 ampere and trip on a maximum current value of 1 ampere. The mechanism is completely enclosed in a black moulded bakelite case through which the reset knob projects and is arranged for front or back connection.

Code No.	Used in	Dimensions	Weight
4001-A	4031-A Selector Apparatus Case, superseding Nos. 2-A and 2-B Circuit Breakers.	4 in. \times 1½ in. \times 4 in. (10.16 \times 4.76 \times 10.16 cm.)	13 oz. (368.6 g.)

In addition to the above, other ratings are available to meet specific requirements.

Method of ordering . . . 4001-A Circuit Breaker.



4001-A Circuit Breaker.

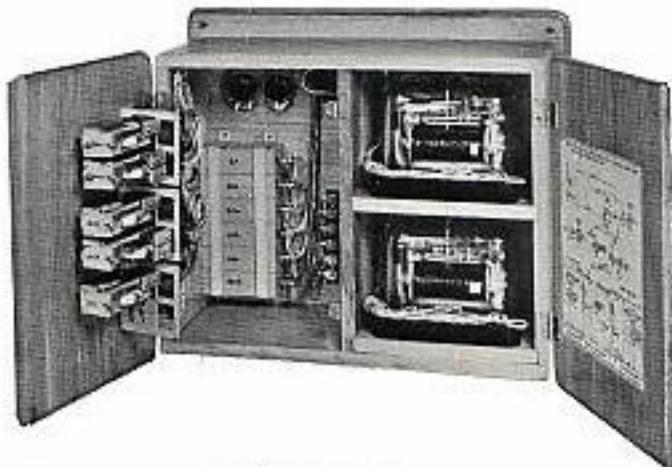
COUPLING UNITS

LU.3408 COUPLING UNIT

This unit is designed for connecting together two selective traffic control lines so that they may be used for communication between control offices, either controller can effect the coupling and clear the connection at the end of the conversation.

Dimensions 16 $\frac{1}{4}$ in. \times 14 in. \times 6 $\frac{1}{2}$ in.

Method of ordering No. LU.3408 Coupling Unit.



LU.3408 Coupling Unit

FOOT SWITCHES

The No. 4001-A Foot Switch is used normally for making the necessary connections between the local battery, transmitter, and telephone set and to change from the receiving to the sending position at the Controller's Station or Way Station. The foot switch contains two spring pile ups controlled by the operation of the foot pedal and is enclosed in a black metal case. It replaces the 2001-A and 1-B Foot Switches.

Method of ordering . . . No. 4001-A Foot Switch.



4001-A Foot Switch

Code No.	Springs	Used	Weight	Dimensions
4001-A	Change over and Break Double Make	For Controllers and Way Station Telephone Sets	2 lb. 5 oz. (1.05 kg.)	5 $\frac{1}{2}$ in. \times 3 $\frac{1}{2}$ in. \times 3 in. (14.28 \times 9.2 \times 7.62 cm.)

FOOT SWITCH ATTACHMENTS

The Nos. 4001-A and 4001-B Foot Switch Attachments are steel bars pivoted at each end and operate against the pedal of the foot switch. They are equivalent to the Nos. 1-A and 1-B Foot Switch Attachments.

Code No.	Length	Used
4001-A	12 in. (30.48 cm.)	With 4001-A Foot Switch
4001-B	24 in. (60.96 cm.)	With 4001-A Foot Switch

Method of ordering . . . 4001-A Foot Switch Attachments.



4001-A Foot Switch Attachment.

JACK BOXES

4002-A TYPE JACK BOX

The 4002-A Jack Box is designed for use in the Controller's telephone circuit on Traffic Control Systems.

It is arranged so that two operators can connect their instruments to line at the same time and consists of a wood box containing the required Jacks, terminals and necessary wiring. It is used in conjunction with the 4052-A Plug.



4002-A
Jack Box.

4003-A TYPE JACK BOX

The 4003-A Jack Box consists of a wooden box containing three Jacks and a Plug attached by a dummy cord. One telephone line can be terminated in each jack and connection from any of the lines to a telephone set can be made by inserting the plug into the appropriate jack. It is designed for use in way stations on traffic control systems.

Code No.	Used in	Weight	Dimensions
4002-A	Controllers Office.	20 oz. (567 g.)	5½ in. × 4½ in. × 1⅞ in. (13·97×12·07×4·9 cm.)
4003-A	Way Stations.	22 oz. (625 g.)	6½ in. × 4½ in. × 2½ in. (16·56×11·76×6·99 cm.)

Method of ordering . . . 4002-A Jack Box,

KEY BOXES

4001 KEY BOX

The use of a No. 4001 Key Box is strongly recommended in preference to the more complicated forms of lever switch.

It consists of a polished oak box equipped with a No. 4600 or 4630 type Key and the requisite terminals. Any key of these types may be fitted.



4001. Key Box.

Code No.	Dimensions	Weight
4001	4 $\frac{1}{2}$ in. \times 3 $\frac{1}{2}$ in. \times 2 in. (11.43 \times 9.52 \times 5.08 cm.)	8 oz. (209 g.)

Quote code number
or schematic of key
required.

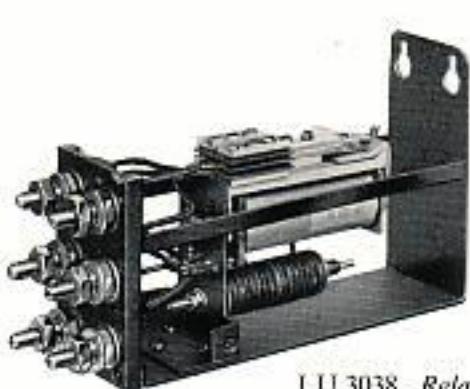
Method of ordering . . . No. 4001 Key box.

RELAYS

LU.3038 TYPE RELAY UNIT

This unit comprises a standard 4600 Type Relay (and Rectifier if required) mounted on a metal bracket under a steel cover. Connections are brought out to 0 B.A. terminals and the whole can be mounted on two screws; designs can be supplied to meet most circuit requirements.

Method of ordering . . . LU.3038 type Relay Unit.
(specify requirements).



LU.3038. Relay Unit.



RELAYS BLOCK

4001 TYPE BLOCK RELAY

This consists of a 4600 Type Relay mounted under a sheet steel cover on a wood base connection being brought out to a 4095 Type Terminal Strip.

<i>Code No.</i>	<i>Using Relay</i>	<i>Resistance</i>	<i>Contacts</i>	<i>Operate Current</i>	<i>Non Operate Current</i>	<i>Weight</i>
4001-A	4602ANT	1000	2M	5	—	19 oz. (537 g.)
4001-B	4601ASA	200	C/O	9	—	"
4001-C	4601AET	3000	C/O	2.6	—	"
4001-D	4601AMN	1000	C/O	4.4	—	"
4001-E	4601AYC	5000	C/O	1.7	1.0	"
4001-F	4662MAP	2000	2M	7	—	"
4001-G	4601AKM	5000	1M	2.5	—	"
4001-H	4602PEF	600	2M	7	—	"

Dimensions 5½ in. × 3½ in. × 2½ in. (13.97×8.26×6.35 cm.)

Method of ordering 4001 (Inserting Code Letter) Block Relay.

SELECTORS

4304 TYPE SELECTOR

The function of the Selectors used in Traffic Control Systems is to provide a quick and reliable means of calling selectively one of a large number of way stations on the same telephone line without producing a signal at the other stations.

The 4304 and 4305 type Selectors are of the step-by-step type and are operated by a definite code or sequence of alternating or reverse current impulses. Each selector consists of a mechanism unit mounted on a magnet unit with a bakelite base and a glass cover.

The following electrical constants of the No. 4304 and 4305 type selectors may be useful in laying out equipments:—

Operating frequency 3½ cycles per second
Ohmic resistance 21,000 ohms

Impedance of Selector and
1.25 mf. Selector Set Con-
denser in series at 3½ cycles
per second 35,000 ohms
Impedance at 800 cycles per
second Well over 1 megohm
Inductance at 8,000 cycles per
second 160 henries

The 4304-A Selector is set for a total of 17 steps, giving a total of 78 code settings. Each selector is capable of being set for any code number given in Code Tables No. 1 and 2, pages 25 and 26 of Bulletin R.S. 6 which can be supplied on request, without any change other than the location of two code pins in the code wheel.

The 4305-B Selector is a multiple contact selector and differs from the 4304-A Selector in that it is equipped with four selective ringing terminals instead of one so that any one of four local circuits can be closed by the same selector independently. Also this selector is not equipped with a terminal for receiving time signals. A total of 46 code settings is available, each setting allowing for 4 local circuits.



4304-A Selector (cover and code wheel removed)

Code No.	Description	Used	Dimensions	Weight
4304-A	Operates on 17 impulses which give a total of 78 code settings. Is equipped for receiving time signals.	In Selector sets at Way Stations	5½ in. × 4½ in. × 4½ in. (13.97×12.07×10.8 cm.)	4½ lb. (1.9 kg.)
4305-B	Multiple contact selector operating on a total of 17 to 25 impulses.	In Selector sets at Way Stations		

Method of ordering . . . 4304-A Selector

SELECTOR APPARATUS CASES

4001C SELECTOR APPARATUS CASE

The 4001-C Selector Apparatus Case replaces the 4001-A and B also the 44080 Selector Apparatus Cases previously listed. It is a wooden case containing all the calling apparatus, with the exception of the selector keys, required at a controller's station.

The functions of the main items of apparatus mounted in the Selector Apparatus Case are as follows:

SR Relay—For reversing the polarity of the line battery under the control of the selector key, thus sending out the necessary train of reverse current impulses to the selectors.

BR Relay—For connecting the sending circuit to the line at the beginning of a call and to disconnect it at the end of the calling period. It is only energised during the period of operation of the selector key.

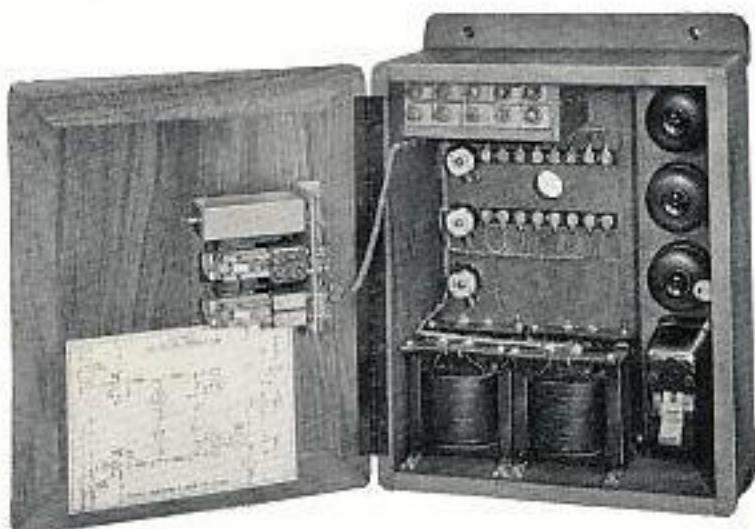
Retard Coils and Condensers—These are for smoothing out the impulses made by the SR relay, so that loud and objectionable clicks shall not be heard in the telephone receivers.

Circuit Breaker—This is connected in the line battery supply leads to prevent the selector apparatus case equipment from excess currents due to short circuits on the line or in the sending circuit.

Code No.	Used on	Dimensions	Weight
4001-C	Controllers Station.	16½ in. × 12½ in. × 7½ in. 41.59 × 31.75 × 20.0 cm.	22 lb. app. (10 kg. app.)

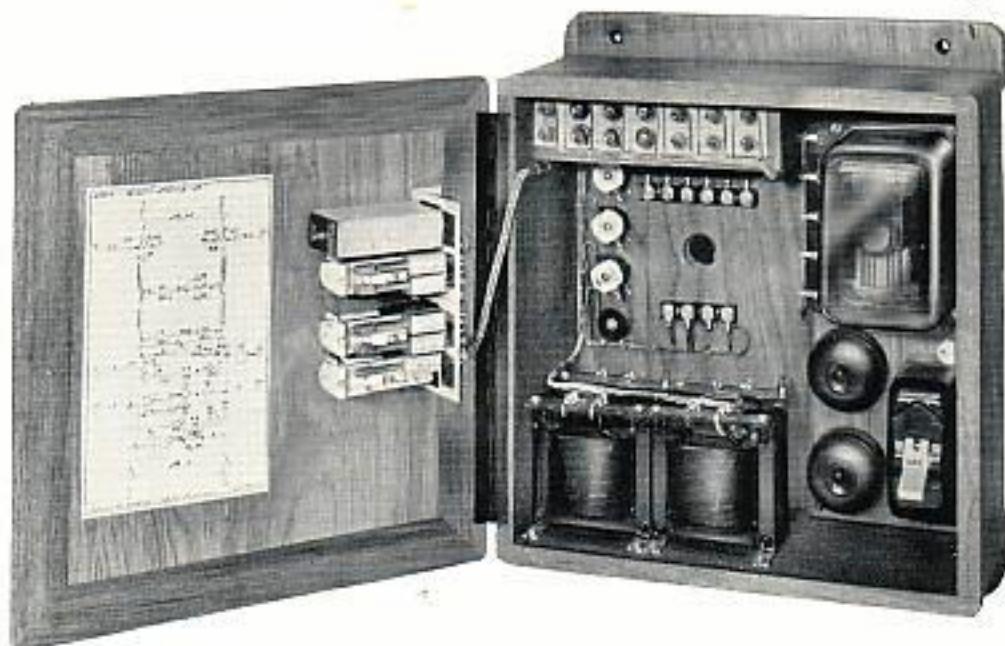
Method of ordering . . . No. 4001-C Selector Apparatus Case.

4001-C Selector Apparatus Case.



SELECTOR APPARATUS CASES

4002-B SELECTOR APPARATUS CASE



4002-B *Selector Apparatus Case.*

This Set is a $3\frac{1}{2}$ cycle impulse repeater for Traffic Control systems.

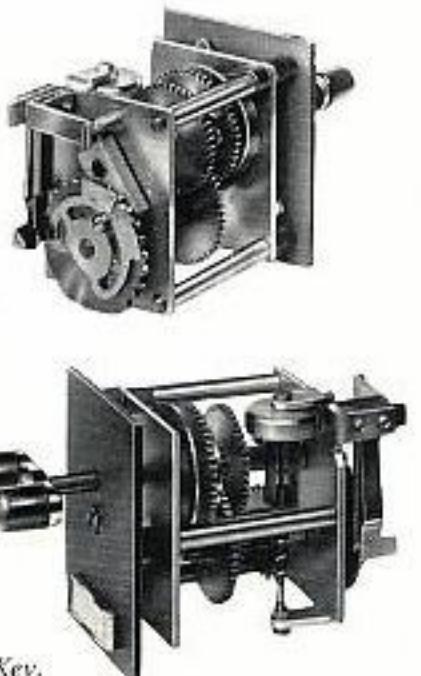
<i>Dimensions</i>	$16\frac{1}{2}$ in. $\times 14\frac{1}{2}$ in. $\times 7\frac{1}{2}$ in. ($41\cdot59 \times 36\cdot83 \times 20\cdot0$ cm.)
<i>Weight</i>	28 lb. approx. (13 kg.) approx.
<i>Method of ordering</i>	..		No. 4002-B Selector Apparatus Case.

SELECTOR KEYS

The function of the selector key is to control the operation of the battery relay and the pole changing relay (fitted in the Controller's Selector Apparatus Case) so that the correct impulses may be sent to the line to operate the selector at the desired Way Station.

The Key is operated by turning the handle one-quarter turn and releasing. It restores itself automatically to its normal position, sending impulses on its return, the speed of return being controlled by a governor.

The 4001 type Keys can be supplied either already set for sending a specified code or with the necessary code segments for setting the code on installation.



Two views of the 4001-A Selector Key.

Code No.	Description	Used in	Dimensions	Weight
4001-A	Individual Key. Can be adjusted to select any Station from 1 to 78 and for advancing all selectors to the time receiving position.	Selector Key cases at Controllers Office, Operate the 4304-A Selector.	2½ in. x 2 in. x 4½ in. (6.35 x 2.54 x 11.11 cm.)	12 oz. (340 g.)

Method of ordering . . . No. 4001-A Selector Key.

SELECTOR KEY BLANK

Code No.	Description	Used in
4001-C	Key Space, black finish to match 4001 type selector keys.	No. 4002-A and B selector key cases in spaces not equipped with keys.

Method of ordering . . . No. 4001-C Selector Key Space.

SELECTOR KEY CASES

The Selector Key Case is for use at the Controller's Station and is arranged to accommodate 4001 type selector keys which latch into position to allow easy removal for maintenance purposes. The key cases are fitted with contact springs so that the electrical connections between the selector key and the terminals mounted on the rear of the key case are made automatically when the selector key is latched into position.

The unit principle has been adopted and the key cases are designed to accommodate 20 keys in two rows of ten. The units are assembled one above the other allowing cases to be built for key capacities from 20 to 80.

Code No.	Capacity	Description	Dimensions	Weight
4002-A	20 No. 4001 type Selector Keys.	Provided with a base board and is first unit to be installed. Two rows of 10 keys per row.	22½ in. × 6½ in. × 5½ in. (57·15 × 15·88 × 13·34 cm.)	6½ lb. (3·06 kg.)
4002-B	20 No. 4001 type Selector Keys.	Extension unit. Not fitted with a base board and is arranged for mounting on top of 4002-A or other 4002-B Selector Key Cases. Fixing details for assembling securely to other units are included.	21 in. × 6 in. × 3½ in. (53·34 × 15·24 × 9·2 cm.)	5½ lb. (2·57 kg.)

Method of ordering . . . No. 4002-A Selector Key Case.

Selector Key Case (capacity 40 Keys) comprising 4002-A Base Unit and 4002-B Extension Unit.



SELECTOR SETS

4001-A SELECTOR SET

The 4001-A Selector Set replaces the 44078 Selector Set formerly listed. The Selector Set is used at way stations in conjunction with 4308-B and C Telephone Sets. It consists of a wooden box arranged to house a 4304 type Selector and contains a bell and associated apparatus.

The selector is not included with the selector set, but must be ordered separately.

Weight 7 lb. (3.18 kg.)

Dimensions 10½ in. × 9 in. × 7 in. (26.67 × 22.86 × 17.78 cm.)

Method of ordering 4001-A Selector Set.

4001-B SELECTOR SET

The 4001-B Selector Set is the same as the 4001-A except that it is wired so that the ring-back tone is removed from the line when the hand-microtelephone is lifted from the switch hook of the 4311-D Telephone Set.

Weight 7 lb. (3.18 kg.)

Dimensions 10½ in. × 9 in. × 7 in. (26.67 × 22.86 × 17.78 cm.)

Method of ordering 4001-B Selector Set.

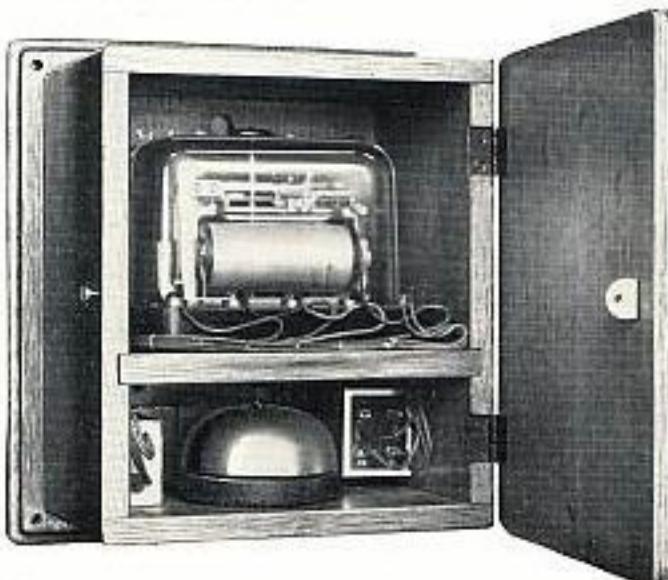
4001-C SELECTOR SET

The 4001-C Selector Set is the same as the 4001-A except that a 4305-B Selector is used instead of 4304-A, thus providing three extra ringing positions for extension bells.

Weight 7 lb. (3.18 kg.)

Dimensions 10½ in. × 9 in. × 7 in. (26.67 × 22.86 × 17.78 cm.)

Method of ordering 4001-C Selector Set.



4001-A Selector Set.

SELECTOR SETS

4002-A SELECTOR SET

This is a combined Selector and Telephone Set designed for use as a way station on continuously manned traffic control lines. It houses 1-4304-A Selector (which must be ordered separately).

Weight 8½ lb. (3.97 kg.)

Dimensions 9 in. × 11½ in. × 7 in. (22.86 × 28.89 × 17.78 cm.)

Method of ordering No. 4002-A Selector Set.

4002-B SELECTOR SET

This set is similar to the 4002-A but is provided with a protector and line looping key for calling control. It houses 1-4304-A Selector (which must be ordered separately).

Weight 8 lb. 14 oz. (4 kg.)

Dimensions 9 in. × 11½ in. × 7 in. (22.86 × 28.89 × 17.78 cm.)

Method of ordering No. 4002-B Selector Set.

4002-C SELECTOR SET

This is similar to the 4002-B except that no protector is fitted and the ring-back tone is removed from the line when the microtelephone is lifted from the switch hook.

The terminal strip for making external connection is fitted outside the case and may be provided with an insulated cover if ordered separately. It houses 1-4304-A Selector (which must be ordered separately).

Weight 8 lb. 14 oz. (4 kg.)

Dimensions 9 in. × 11½ in. × 7 in. (22.86 × 28.89 × 17.78 cm.)

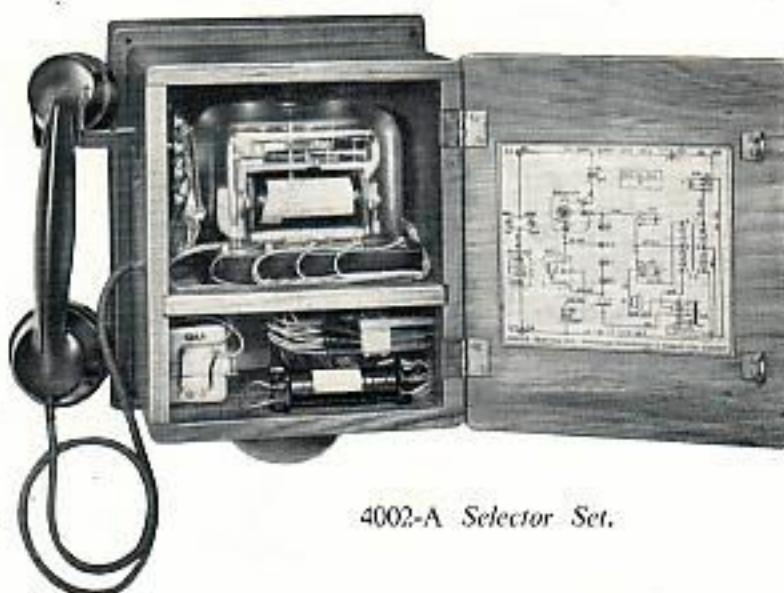
Method of ordering No. 4002-C Selector Set.

4002-D SELECTOR SET

The 4002-D Selector Set is a Traffic Control way station Set designed for use in conjunction with a 4304-A Selector on lines of up to 50 miles in length, having a maximum of 20 Sets bridged across the line. This Set is not suitable for use where General Call or Group Calling is required.

Dimensions 9 in. × 11½ in. × 7 in.
(22.86 × 28.89 × 17.78 cm.)

Method of ordering 4002-D Selector Set.



4002-A Selector Set.

SELECTOR SETS

4002-E SELECTOR SET

The 4002-E Selector Set is similar to the 4002-A Selector Set but is fitted with terminal connections for foot switch (which must be ordered separately).

Method of ordering ... No. 4002-E Selector Set.

4002-F SELECTOR SET

The 4002-F Selector Set is a traffic control way station similar to the 4002-A Selector Set but is fitted with a line looping key across the line terminals.

Method of ordering ... No. 4002-F Selector Set.

4003-A SELECTOR SET

The No. 4003-A Selector Set is a coupling unit for connecting a branch code ringing telephone line to a main selective traffic control line. It houses 1-No. 4304-A Selector (which must be ordered separately).

Coupling can be affected by either branch or main lines, but clearing is always in the hands of the Controller.

Weight ... 13 lb. 8 oz. (6.12 kg.) less selector.

Dimensions ... 9 in. \times 16½ in. \times 7 in. (22.86 \times 41.91 \times 17.78 cm.)

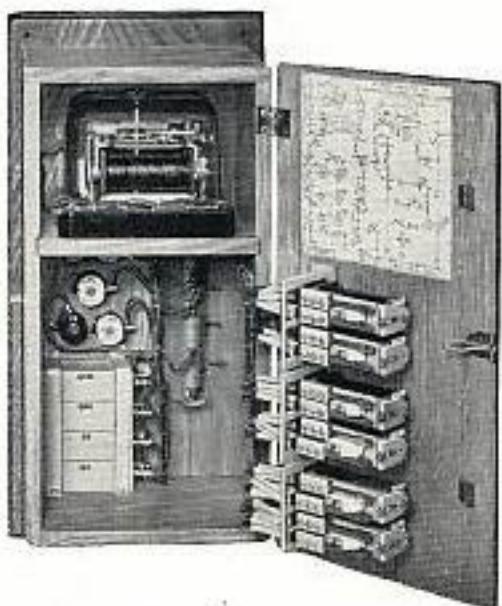
Method of ordering ... No. 4003-A Selector Set.

4005A SELECTOR SET

The 4005-A Selector Set is for use on carrier systems in conjunction with 4311-F telephone set.

Dimensions ... 9 in. \times 17½ in. \times 6½ in.
(22.86 \times 44.13 \times 17.31 cm.)

Method of ordering No. 4005-A Selector Set



4003-A Selector Set.

SELECTOR TEST SETS

4001-B SELECTOR TEST SET

The 4001-B Selector Test Set replaces the 4001-A Selector Test Set previously listed, and is a portable set designed for testing selectors or selector sets for electrical operation. It is fitted with a relay for reversing the current through the selector under test, rheostats and a milliammeter for adjusting and measuring line current values, keys for setting up various test conditions and a selector key for operating the selector to be tested.

Weight ... 27 lb. (12.25 kg.)

Dimensions ... 17 in. \times 13 in. \times 7 in.
(43.18 \times 32.82 \times 17.78 cm.)

Method of ordering ... No. 4001-B Selector Test Set.



4001-B
Selector Test Set

SELECTOR TIME SENDING SET

The 4001-A Selector Time Sending Set is intended for use in conjunction with the 4001-B Selector Apparatus Case for transmitting time impulses over a traffic control system after the way stations have been stepped into the time receiving position. It is equipped with the necessary relays to convert, via the selector apparatus case, the successive closures of the local contact of the time repeating relay at the control office into successive reversals of the line battery so that each pulse of the time signal is repeated at the way stations as a tap on the bell.

The 4001-A Selector Time Sending Set is housed in oak box suitable for wall or desk mounting.

Weight—4 lb. 4 oz. (1.9 kg.)

Dimensions—8 $\frac{1}{2}$ in. \times 8 $\frac{1}{2}$ in. \times 4 $\frac{1}{2}$ in.
(21.51 \times 20.88 \times 11.43 cm.)

Method of ordering ... No. 4001-A Selector Time Sending Set.



4001-A
Selector Time Sending Set.

TELEPHONE SETS

4086-A TELEPHONE SET

Forms part of the telephone equipment at Controller's Stations.

Dimensions ... $8\frac{7}{16}$ in. $\times 7\frac{1}{4}$ in. $\times 3\frac{1}{8}$ in. (21.42 \times 18.46 \times 9.85 cm.)

Weight ... 4 lb. (1.8 kg.)

Note.—*Batteries are not supplied with Telephone Sets and must be ordered separately.*

Method of ordering ... No. 4086-A Telephone Set.

4087-B TELEPHONE SET

The 4087-B Telephone Set forms part of the way station equipment and is used in conjunction with the 4001 type Selector Set.

Dimensions ... $8\frac{1}{2}$ in. $\times 7\frac{1}{2}$ in. $\times 2\frac{7}{8}$ in. (20.95 \times 18.46 \times 7.30 cm.)

Method of ordering ... No. 4087-B Telephone Set.

4308-C TELEPHONE SET

The 4308-C Telephone Set replaces the 4308-B type.

It is an oak wall set for use at way stations, and is equipped with high efficiency transmitting and receiving circuit.

Weight ... 6 lb. (2.72 kg.)

Dimensions ... $8\frac{1}{2}$ in. $\times 7\frac{1}{16}$ in. $\times 5\frac{1}{4}$ in. (21.2 \times 18.25 \times 13.34 cm.)

Method of ordering ... No. 4308-C Telephone Set.

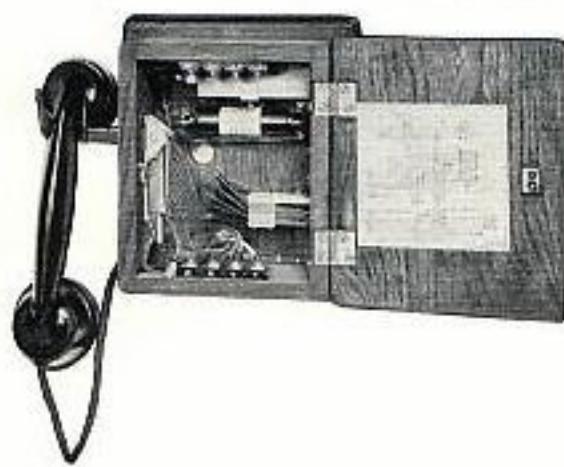
4308-D TELEPHONE SET

This is similar to the 4308-C except that terminals for foot switch connections are fitted instead of the key.

Weight ... 5 lb. 14 oz. (2.67 kg.)

Dimensions ... $8\frac{1}{2}$ in. $\times 7\frac{1}{16}$ in. $\times 5\frac{1}{4}$ in. (21.2 \times 18.25 \times 13.34 cm.)

Method of ordering ... No. 4308-D Telephone Set.



4308-C Telephone Set.



4086-A Telephone Set.

TELEPHONE SETS

4311-A TELEPHONE SET

Moulded hand-microtelephone desk set, similar to the 4509 type, for use at way stations in conjunction with the No. 4001-A Foot Switch. Equipped with high efficiency receiving and talking circuit. It replaces the No. 4506-B Telephone Set.

Method of ordering ... 4311-A Telephone Set.

4311-B TELEPHONE SET

Moulded hand microtelephone type desk set. Used as a replacement for the No. 4209-A desk stand or 4506-C Telephone Set at way stations on existing installations.

Method of ordering ... No. 4311-B Telephone Set.

4311-D TELEPHONE SET

Moulded microtelephone Desk Set for use at way stations in conjunction with the 4001-B Selector Set.

Dimensions ... 9 $\frac{1}{4}$ in. \times 8 in. \times 6 in. (23.5 \times 20.32 \times 15.24 cm.)

Method of ordering ... No. 4311-D Telephone Set.

4311-E TELEPHONE SET

Moulded Microtelephone Desk Set for use at way stations. The Set is fitted with buzzer and used with the 4001-A Selector Set.

Method of ordering ... No. 4311-E Telephone Set.

4311-F TELEPHONE SET

Moulded Microtelephone Desk Set for use at way stations. The Set is fitted with buzzer and is used with the 4005-A Selector Set.

Method of ordering ... No. 4311-F Telephone Set.



4311-A
Telephone Set

4312 TELEPHONE SET

The 4312-A Telephone Set is a battery ringing wall set fitted with two press keys one for code ringing and one for calling the exchange.

The relay employed has a resistance of 5,000 ohms.

The complete set measures 7 $\frac{5}{8}$ in. \times 8 $\frac{1}{4}$ in. \times 5 $\frac{1}{16}$ in. (19.73 \times 20.96 \times 13.49 cm.), weighs 6 $\frac{1}{2}$ lb. (2.95 kg.).

Method of ordering ... No. 4312 Telephone Set

TELEPHONE SETS

MAGNETO

4101AK TELEPHONE SET

The 4101-AK Telephone Set is a local battery wall set used in conjunction with the 4001-A Selector Set.

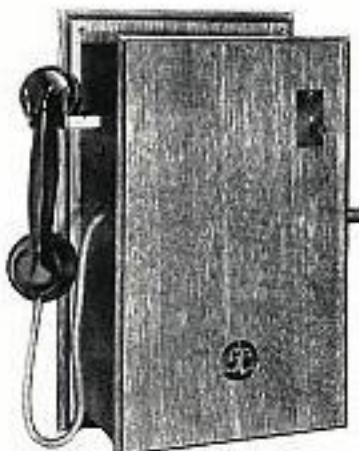
It is designed for maximum efficiency and is equipped with an anti-side tone circuit so that extraneous noises in the vicinity cause minimum interference with reception.

A Hand Generator is provided for calling the Controller.

Dimensions . . . 17 in. \times 10 $\frac{1}{2}$ in. \times 7 $\frac{1}{2}$ in.
(43.18 \times 26.04 \times 18.46 cm.)

Weight . . . 13 lb. 8 oz. (6.1 kg.)

Method of ordering . . . No. 4101-AK Telephone Set and include dry cells, if required.



4101-AK Telephone Set

COMMON BATTERY

4214 TELEPHONE SET

4214-C. This is a battery ringing type Telephone Set equipped with two push buttons, one to call exchange and the other for code ringing. It is fitted with a 5,000 ohm relay and buzzer and 4016-D microtelephone.

4214-D. This set is similar to the 4214-C except that it is fitted with the No. 4017-A microtelephone.

Weight . . . 6 $\frac{1}{2}$ lb. (2.83 kg.)

Dimensions . . . 9 $\frac{1}{2}$ in. \times 8 in. \times 6 in.
(23.5 \times 20.32 \times 15.24 cm.)

Method of ordering . . .
4214-C Telephone Set.



4214 Telephone Set

TELEPHONE SETS- OPERATOR

No. 4403 TYPE

This set is constructed so that the Transmitter remains in position opposite the mouth regardless of the Operator's head movements, thus the operator has greater freedom and gives more uniform transmission.

Code 4403-AA telephone set is fitted with 4052 plug and ECS 1201-F Cord 54 in. (137 cm.) Brown.

Code 4403-J telephone set is fitted with 4013 plug and ECS 1201-J Cord 54 in. (137 cm.) Brown.

Method of ordering . . . No. 4403-J Telephone Set.

4403 Telephone Set



No. 4404/5 TYPE

This operator's set is the latest British Post Office type and includes a breast transmitter having a moulded case and adjustable mouthpiece. The transmitter capsule is similar to the No. 4025-A. The No. 4404 set has a switch in the transmitter circuit, which is operated by raising or lowering the mouthpiece. The No. 4004 transmitter is identical with the No. 4003 with the exception that no switch is fitted.

Code No.	Consists of	Used with	Weight
4404-B	{ 4003-B Breast Transmitter 4028-A Receiver 4013 Plug Cord	C.B. Multiple or L.B. Switchboards with	9½ oz. (268 g.)
4405-D	{ 4004 Breast Transmitter 4028-A Receiver 4013 Plug Cord	do. do.	9½ oz. (268 g.)
4405-C	{ As Code 4405-D, but uses 4052-A Plug	do. do.	9½ oz. (268 g.)

Method of ordering . . . No. 4404 Telephone Set.

The parts that go to make up the complete set can be ordered separately under the descriptions given above.



4003-B
Breast Transmitter.

TELEPHONE SETS- OPERATOR

4406 HEAD TELEPHONE SET

The 4406 OPERATOR'S HEAD TELEPHONE SET is the latest development by *STANDARD* Acoustic Engineers, it combines modern improvements in transmitter and receiver design in an attractive self-contained light-weight nylon moulded instrument case and is available for both temperate and tropical use.

The transmitter is accommodated in a small extension to the receiver housing, the whole being supported on a wire headband having a flexible pad for comfort. Only one instrument cord is required, and care has been taken to ensure a compact design free from projections.

High Quality and Sensitivity

The set is claimed to have a higher quality and sensitivity, both in transmission and reception, than those of any comparable head set available on the market.

Light Weight

The weight of the complete headset, including receiver and transmitter, but excluding cord and plug, does not exceed 4 ozs.

Mechanical Safety Feature

The transmitter horn and elbow system is connected to the main housing by means of a mechanical shock absorber which avoids breakage at the otherwise usually weak point.

Stability

The combination of balance and light weight incorporated in the design, together with a resilient head pad, ensures a stability and comfort unknown in other headsets.

Colour

The set is available in either a black (type 4406A) or ivory (type 4406C) finish.

Method of ordering . . . 4406A Telephone Set.



4406 Telephone Set.

Associated Companies

Particulars of all Standard products may be obtained from the following Associated Companies:—

Argentina ..	Compania Standard Electric Argentina, S.A., Buenos Aires
Australia ..	Standard Telephones and Cables Pty., Limited, Sydney
Austria ..	Standard Telephon and Telegraphen A.G., Vienna
Belgium ..	Bell Telephone Manufacturing Company, Antwerp
Brazil ..	Standard Electrica, S.A., Rio de Janeiro
Canada ..	Standard Telephones and Cables Mfg. Co. (Canada) Limited, Montreal, P.Q.
Chile ..	Compania Standard Electric, S.A.C., Santiago
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Denmark ..	Standard Electric A/S., Copenhagen
Finland ..	Oy Suomen Standard Electric A.B. Helsinki
France ..	{ Compagnie Générale de Constructions Téléphoniques, Paris Le Matériel Téléphonique, Paris
Germany ..	C. Lorenz A.G., Stuttgart Mix and Genest, Abteilung der Standard Elektrizitäts— Gesellschaft Aktiengesellschaft, Stuttgart-Zuffenhausen Suddeutsche Apparate Fabrik, Abteilung der Standard Elektrizitäts-Gesellschaft Aktiengesellschaft, Nurnberg
Holland ..	Nederlandsche Standard Electric Mij. N.V., The Hague
Iran ..	Standard Elektrik Gesellschaft Iran A.G., Teheran
Italy ..	Fabbrica Apparecchiature per Comunicazioni Elettriche, Standard S.p.A. Milan
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New Zealand	Standard Telephones and Cables Pty., Ltd., Wellington
Norway ..	Standard Telefon-og Kabelfabrik A/S., Oslo
Portugal ..	Standard Electrica S.A., Lisbon
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Spain ..	Standard Electrica, S.A., Madrid
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Iran Abolhassan Diba & Co., Tehran.
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Kuwait Mohammed Abdul Rahman Al-Ishaar, Kuwait.
Lebanon Near East Resources, Beirut.
Saudi-Arabia Hay Abdulla Alireza & Co., Jeddah.
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South Indian Export Co. Ltd., Madras.
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Bihar Martin Burn Ltd., Calcutta.
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Kerala Crompton Engineering Co. (Madras) Private Ltd., Madras.
South Indian Export Co. Ltd., Madras.

Madras Crompton Engineering Co. (Madras) Private Ltd., Madras.
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Madhya Pradesh West Jests Engineering Co. Ltd., Bombay.
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Uganda Stephen Ellis & Co. Ltd., Nairobi.
Zanzibar Stephen Ellis & Co. Ltd., Nairobi.

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Accra Paterson Simons & Co. (West Africa) Ltd., Accra.

SUDAN

Sudan Sudan Mercantile Co. (Engineers) Ltd., Khartoum.

MAURITIUS

Mauritius The Electrical & General Engineering Co. Ltd., Port Louis.

SOUTH AMERICA

British Guiana Evan Wong & Son Ltd., Georgetown.

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