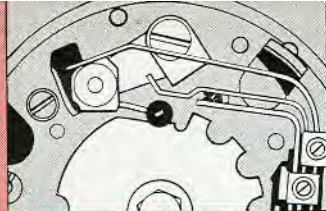


THE ARTICULATED  
**TRIGGER DIAL**

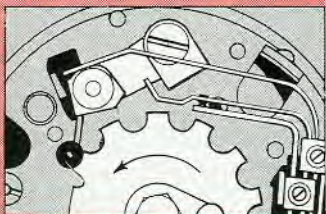


**G.E.C.**

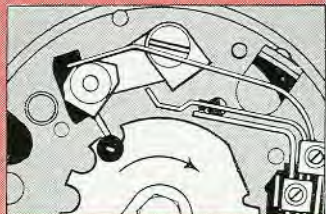




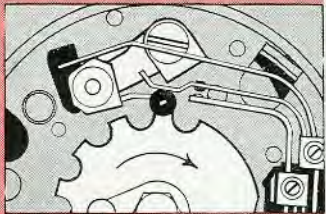
1 Illustrated in Figure 1 are the respective positions of the impulse springs, impulse wheel and trigger assembly whilst the dial is in the normal position.



2 During the forward motion of the finger plate the impulse wheel rotates and transfers the trigger to the impulsive position.



3 When the finger plate is released, the impulse wheel, on the return motion, picks up the trigger and transfers it to the impulsive position (Figures 3 and 4). The time taken for the trigger to move from the impulsive position to the impulsive position provides the pause before impulsing commences.



4 The trigger now rides over the teeth of the impulse wheel to operate the impulse springs (Figure 4), the impulse contacts being broken and re-made a number of times corresponding to the digit dialled.

# THE G.E.C. T

THE ARTICULATED TRIGGER  
PROVIDES A PAUSE BEFORE  
IMPULSING WITHOUT THE USE OF A

This fundamentally simple trigger action, in which a pivoted arm is actuated by the teeth of the impulse wheel, introduces a *completely reliable* method of obtaining a pause before the first digit.

**Other outstanding features of this dial are :-**

- Long pre-digit pause
- Highly efficient governor mechanism.
- Minimum effect of wear on impulse ratio
- No clipped or additional impulses
- Improved dust exclusion
- Wide range of speeds and impulse ratios
- Long and trouble-free service under any climatic conditions
- Completely interchangeable with former B.P.O. standard

## LONG PRE-DIGIT PAUSE

The long pre-digit pause affords a greater safeguard against premature impulsing, and so increases the margin of safety against calls being lost by subscribers who dial without waiting for dial tone.

## HIGHLY EFFICIENT GOVERNOR MECHANISM

The distinctive tooth profile of the worm-wheel produces a true action by the governor mechanism. The tendency to stick which accompanies the wear of normal radial-cut teeth is eliminated by the use of the offset undercut teeth. Wear on the governor and the possibility of sticking are still further reduced by making the worm-wheel of fabric-laminated plastic. This also ensures a quiet action.

## MINIMUM EFFECT OF WEAR ON IMPULSE RATIO

Any wear on the trigger tip, which would tend to increase the gap between the operating bush and the impulse spring, is automatically offset by the lowering of the impulse spring by wear on the impulsing contacts. As a result of this compensating action, G.E.C. trigger dials show no appreciable variation in the impulse ratio after testing to 20 million impulses.

## NO CLIPPED OR ADDITIONAL IMPULSES

The possibility of clipped or additional impulses due to careless dialling is very remote. The trigger will fall into the groove corresponding to the digit dialled even if the finger plate is moved past or short of the finger stop by very nearly half the width of a finger-plate hole.



# TRIGGER DIAL

**R ACTION**  
**THE DIGIT**  
**LIPPING CAM.**

**CATALOGUE NOS.**  
**DL 1100—1200 SERIES**



*G.E.C. Trigger Dial.  
Cat. No. DL 1100 series - Standard.  
Cat. No. DL 1200 series - Tropical.*

## DUST EXCLUSION

The number ring fits closely round the main spindle and prevents dust entering the mechanism from the front. A transparent-plastic cover can be fitted to the rear of a subscriber's dial when required to prevent the ingress of dust. The holes in the plastic cover, through which connexions to the springset terminals are made, are metal bushed to provide a metallic connexion between the ends of the dial cord and the springset terminals in addition to that given by the terminal fixing screws.

## WIDE RANGE OF SPEEDS AND IMPULSE RATIOS

The nominal speed of the dial is 10 impulses per second, but the governor can be adjusted to give speeds between 7 and 14 i.p.s. if required. The impulse ratio of dials supplied to operate G.E.C. automatic telephone equipment is 2 : 1 break to make, but dials can be fitted with impulse wheels giving ratios between 4 : 1 break to make and 1 : 1 when required.

## LONG AND TROUBLE-FREE SERVICE UNDER ANY CLIMATIC CONDITIONS

The dial has been tested and has worked satisfactorily over a prolonged period under the most adverse conditions in both temperate and tropical areas.

## COMPLETELY INTERCHANGEABLE WITH FORMER B.P.O. STANDARD

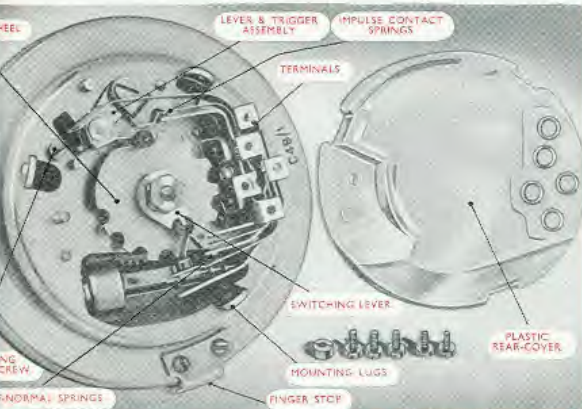
The dial, which is standardised by the British Post Office and many Overseas Administrations, is immediately interchangeable in any instrument or system using former B.P.O. standard dials, and can be adapted to fit many other types of mounting.

## FINGER PLATE

The normal finger plate used on black telephones is made of stainless steel. The dial finger plates on G.E.C. two-tone telephones are made of black plastic. A matt-black finish is given to finger plates on operators positions to eliminate reflections.



*Rear View - assembled dial with transparent plastic cover.*



*Rear view of dial - with components identified.*



*Driving and governor mechanism*





Number ring for director areas.



Number ring with Arabic numerals.



Number ring for rotary systems.

#### NUMBER RING

The illustrations above show some of the wide variety of number rings regularly supplied. Special printing can be carried out to meet a customer's specification.

#### INSTRUCTION LABEL

The labels shown on the dials illustrated in this leaflet are typical examples of the wide variety produced. Special labels can be supplied to meet a customer's specification.

#### PREVENTION OF FRAUDULENT CALLS

The coin-box, or paystation, trigger-type dial incorporates means which render ineffective all known methods of making unauthorised free calls by dial manipulation.

#### TEST DIALS

A range of test dials for exchange testing and maintenance use can be supplied. These dials have their speeds and impulse ratios adjusted to produce impulses within the limits of satisfactory operation of the exchange equipment.

## ENQUIRIES AND ORDERS

- When these are cabled, catalogue numbers will suffice, but in written confirmation please quote catalogue number and full description, stating whether standard or tropical finish is required.
- For the component parts, please refer to the item by name and quote the catalogue number of complete dial.
- The Company reserves the right to change any detail of design.

#### CATALOGUE NUMBERS

| Catalogue No. |               | Type                         | Dimensions |      |       |     | Weight |       |
|---------------|---------------|------------------------------|------------|------|-------|-----|--------|-------|
| Standard      | Tropical      |                              | Diameter   |      | Depth |     | oz     | grams |
|               |               |                              | ins        | cms  | ins   | cms |        |       |
| DL1100 Series | DL1200 Series | Subscriber's ... ..          | 1½         | 3.81 | 8½    | 215 |        |       |
|               |               | Subscriber's with rear cover | 1½         | 4.13 | 8½    | 250 |        |       |
|               |               | Coin Box ... ..              | 1½         | 4.77 | 9     | 256 |        |       |
|               |               | Operator's ... ..            | 1½         | 3.81 | 8½    | 250 |        |       |
|               |               | Test, Subscriber's ... ..    | 1½         | 3.81 | 8½    | 250 |        |       |
|               |               | Test, Coin Box ... ..        | 1½         | 4.77 | 9     | 256 |        |       |

#### PACKING INFORMATION

- In individual boxes 3½ ins diameter by 2½ ins deep (8.89 cms × 6.04 cms)
- 10 boxes in carton 12½ ins × 7½ ins × 3½ ins (30.8 cms × 18.1 cms × 9.05 cms)
- Approximate Weight 7 lb (3.175 kg)
- 20 boxes in carton 12½ ins × 7½ ins × 7½ ins (30.8 cms × 18.1 cms × 18.1 cms)
- Approximate Weight 14 lb (6.35 kg)

For further information and for all details of other telecommunication equipment consult

**THE GENERAL ELECTRIC COMPANY LTD. OF ENGLAND**  
**TELEPHONE WORKS** **COVENTRY** **ENGLAND**

Telephone Coventry 62611 (12 Lines)

Telegrams & Cables "Springjack, Coventry"

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