

POST OFFICE ENGINEERING DEPARTMENT.  
TECHNICAL INSTRUCTIONS.  
CIRCULATION F.

TELEGRAPHS.  
GENERAL.  
D.1015.

## PANEL-MOUNTED TELEGRAPH APPARATUS FOR PUBLIC CIRCUITS.

### Panel, Telegraph, No. 5 (Diagrams TG.747, 770).

1. This panel accommodates the equipment necessary for a 2-line Simplex teleprinter circuit (CB. system). The assembly of the equipment mounted on the panel is shown in Drawings 9582 and 9597.

2. The panel carries a series of four switching-keys mounted so that they are operated in pairs. These keys are employed to set up, as required, the following circuit conditions:—

- (a) *With the key-levers horizontal*, the circuits are through.
- (b) *With the key-levers of Keys 1 and 2 operated to TEST SET TO LINE*, the Officer at the Test Bay is able to work Duplex to the Distant Station.
- (c) *With the key-levers of Keys 1 and 2 operated to TEST SET TO LOCAL*, the Officer at the Test Bay is able to work to the local teleprinter position.
- (d) *With the key-levers of Keys 3 and 4 operated to MORSE*, the Officer at the Test Bay is able to work to the distant station.
- (e) *With the key-levers of Keys 3 and 4 operated to RESISTANCE*, a lamp resistance is substituted for the battery normally connected to line.

3. A two-position key—labelled TELEPRINTER OFF—is employed to disconnect the circuit between the tongue of the relay and the local teleprinter, while testing operations are in progress. When the key-lever is horizontal, the circuit is through. When operated to TELEPRINTER OFF, a negative battery is applied to the teleprinter electromagnet to hold its armature in the “rest” position.

4. The panel is equipped with the following apparatus:—

- |                                |                                  |
|--------------------------------|----------------------------------|
| 1 Baseboard No. 26.            | 5 Key-mountings T.               |
| 2 Coils, Retardation, No. 40A. | 2 Labels, No. 11, white.         |
| 1 Condenser, M.C., No. 102.    | 2 Labels No. 175.                |
| 1 Condenser, M.C., No. 103.    | 2 Labels No. 183.                |
| 1 Dust Cover.                  | 1 Resistor, Spool, No. 1, 40Ω.   |
| 2 Handles, Key, No. 7.         | 2 Resistors, Spool, No. 1-2000Ω. |
| 1 Key No. 68, black.           | 2 Strips, Conn., No. 100.        |
| 4 Keys No. 212.                | 2 Milliammeters No. 17.          |

To be requisitioned separately:—

- 1 Relay, Standard, BN.

References:—None.

E N D.