

Western Electric Co., Incorporated,
Engineering Dept.,
New York.

228190-99

(1 Page) Page #1.
Appendix 1
Issue 2 - ET-431468
June 30, 1922.

METHOD OF OPERATION
FRAME LINE CIRCUIT

For Talking Between Trouble Desk - And District Sender and Translator Frames -
Trouble Desk - Full Mechanical Power Driven System.

Omit the phrase:- "one primary winding of the 23 induction coil" in sentence
2 of paragraph 2.

Under "Circuit Requirements" the requirements for the H44 shall be changed to
read as follows:-

CIRCUIT REQUIREMENTS

THE READJUST REQUIREMENTS SHOWN BELOW ARE FOR MAINTENANCE USE ONLY

| | <u>OPERATE</u> | <u>NON-OPERATE</u> | <u>RELEASE</u> |
|---------------------------------|------------------|-----------------------------------------------------------------|----------------|
| H44 | Readj. .043 amp. | All contacts shall be tensioned to a minimum of 15 grams. | |
| (T) | Test .061 amp. | | |
| Wdgs. in series aiding | | | |

ENG.--WIK-DB.
12/2/22.

CHK'D.--WCD-CWP.

APPROVED - C. L. SHUYTER, G.M.L.

METHOD OF OPERATION
FRAME LINE CIRCUIT

For Talking Between Trouble Desk - And District Sender and Translator Frames -
Trouble Desk - Full Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is used for communicating between the district, sender and translator frames, and both the trouble desk and switchman's desk.

DETAILED DESCRIPTION

2. A call is made to the trouble desk by inserting the twin plug of a telephone set in a jack located at the frame. The insertion of the twin plug in the jack, closes a circuit from battery through the primary winding of the T relay, the transmitter, one primary winding of the 23 induction coil, secondary winding of the T relay to ground operating the T relay. The T relay operated closes a circuit from battery through an interrupter break contacts of the CO relay to ground through the lamps, causing them to flash, and also closes a circuit to operate the auxiliary signal. The call is answered at the trouble desk by operating the talking key which closes a circuit from ground through the contacts of the key, to battery through the winding of the CO relay which operates. The CO relay operated, (a) locks to ground under control of the T relay, (b) opens the auxiliary signal circuit and (c) changes the lamps from flashing to steady as a busy signal.

3. At the conclusion of the conversation, the twin plug is withdrawn from the frame jack, releasing the T relay. When the key is released, the CO relay releases extinguishing the line lamps and restoring the circuit to normal.

(2 Pages) Page #2.
Issue 2 - BT-431468.
Replacing all previous issues.
May 17, 1922.

CIRCUIT REQUIREMENTS

THE READJUST REQUIREMENTS SHOWN BELOW ARE FOR MAINTENANCE USE ONLY

| | <u>OPERATE</u> | <u>NON-OPERATE</u> | <u>RELEASE</u> |
|-------------|------------------------------------|-----------------------------------------------------------------|----------------|
| E34 (CO) | Readj. .020 amp. Test .030 amp. | All contacts shall be tensioned to a minimum of 15 grams. | |
| H44 (T) | Readj. .043 amp. Test .061 amp. | All contacts shall be tensioned to a minimum of 15 grams. | |

ENG.-VLLK-KX.
12/2/22.

CHK'D.--WCD-CWP.

APPROVED - C. L. SIUYTER, G.M.L.