

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

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Replacing all previous issues.
Issue 2 - BT-431528.
July 6, 1921.

METHOD OF OPERATION
SIGNAL CIRCUIT

Selector Time Alarm - Arranged For One-Half To Four Minute Periods - Full
Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is used with final and district selector circuit to give an audible and visual alarm whenever the calling subscriber in an automatic Step by Step office fails to replace the receiver on the switchhook within a specified time after the calling party does so, or in cases where the district or final selector stops in a selecting position for an abnormal length of time.

DETAILED DESCRIPTION

2. When a final or district selector circuit stops in a position an abnormal length of time or when the receiver at the calling station in an automatic Step by Step office is not replaced on the switchhook at the end of conversation, the permanent signal relay (not shown) operates, connecting ground to lead C, operating the STP relay. The STP relay operated, connects one side of the winding of the STP magnet to the contact of the 152-B or 152-J interrupter. When the 152-B or 152-J interrupter contacts close, the STP magnet operates. When the circuit through the STP magnet is opened at the interrupter contact, the magnet releases, thus stepping the switch one step on its back stroke. The STP magnet continues to operate under control of the interrupter, until the PU brush makes contact with the terminals to which lead B is connected. The closing of a circuit through lead B operates a relay in the associated alarm circuit, lighting the pilot lamp and releasing the STP relay. The STP relay released, closes a circuit from the ground through the interrupter armature and break contact of the STP relay, terminals of the off-normal (ON) alarm bank, on brush, armature and winding of the STP magnet, to battery, operating the STP magnet which returns the switch to normal.

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CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

STP
E535

Test .013 amp.
Readj. .0055 amp.

Test .0035 amp.
Readj. .0037 amp.

STP
E1308

Test .015 amp.
Readj. .0083 amp.

Test .0053 amp.
Readj. .0056 amp.

ENG.--RAF-ML.
10/25/21.

CHK'D.-WCD-CWP.

APPROVED-C.L.SLUYTER, C.M.L.