

CONNECTING REGISTER CIRCUITS  
FOR OBTAINING OVERFLOW DATA  
ON LINES SERVED BY HUNTING CONNECTORS  
STEP-BY-STEP OFFICES

1. GENERAL

1.01 This section describes methods of connecting register circuits for obtaining overflow data on lines served by rotary or level hunting connectors in step-by-step (SXS) offices.

1.02 It is reissued to conform with the latest section format.

*Note:* Marginal arrows used to denote changes are omitted.

1.03 Overflow registrations ordinarily will not be made concurrently on two or more groups of lines in the same hundred. However, it is feasible to make such registrations in the case of lines served by rotary hunting connectors, and occasionally, this may be required when the requests for overflow data are originated by the subscribers.

1.04 Arrangements specified herein for use in connection with rotary hunting connectors supersede those shown on the circuit drawings.

1.05 The designations of leads and terminals in this section agree with latest standard circuits. In particular installations of similar circuits, other designations may have been used.

1.06 It should be noted that the register circuits used in connection with rotary hunting connectors and those used with level hunting connectors are not interchangeable.

1.07 Following any rearrangement of the connections, tests of the register circuits affected should be made as described in the section covering connector traffic register circuit tests.

2. APPARATUS

2.01 (*For rotary hunting connectors only.*) W1M cords, 2 ft., modified locally to have a KS-6780 cord tip and a No. 108 cord tip at each end. (Quantity as required.)

2.02 Tools and materials as required for strapping and cross-connecting operations.

3. METHOD

A. Rotary Hunting Connectors

3.01 *Permanent Connections (for First or Only Register in a Hundred):* At the distributing frame, cross-connect the OS, T, or R1 terminal of the No. 99 line in the hundred, and the TM or R terminal of the register circuit to the R terminal of the No. 99 line, using paired distributing frame wire. These connections should be left in place permanently unless the register circuit is subsequently required for use in another hundred.

3.02 *Arrangements to Provide for Additional Registers in Same Hundred:*

(a) Obtain from the operator services department the temporary release of two consecutive unassigned lines on the same level in the hundred. Strap together the S and H terminals of the first of these two lines at the outgoing terminal strip in each shelf of the hundred, and in the "A" shelf connect the S terminal of this line to the S terminal of the No. 99 line by means of a modified W1M cord.

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(b) Cross-connect this line to the register circuit to be used (in most cases this will be a temporarily idle register circuit used normally with another hundred), making the connections as indicated in 3.01, except that the unassigned line is used in place of line No. 99.

(c) The connections to the second of the two unassigned lines are assumed to be in accordance with the usual treatment of idle terminals in the particular office and should not be changed.

(d) If there are to be more than two registers in the hundred, repeat the operations of (a), (b), and (c) for each additional register.

**3.03 Connections at the Connector Shelves:**

(a) At the outgoing terminal strip of the "A" shelf of the hundred, connect the S terminal of the last choice line in the group for which overflow data are to be obtained to the T terminal of line No. 99, or, if registrations are to be made on more than one group in the hundred, to the T terminal of the line cross-connected to the particular register circuit to be used. Make the connection with a modified W1M cord.

(b) At the outgoing terminal strip of each shelf of the hundred, connect the H terminal of the last choice line in the group for which overflow data are to be obtained to the R terminal of line No. 99, or, if registrations are to be made on more than one group in the hundred, to the R terminal of the line cross-connected to the particular register circuit to be used. Make the connections with modified W1M cords.

**B. Level Hunting Connectors**

**3.04 Permanent Connections:** The distributing frame cross-connections required to associate the leads from the level hunting connector shelves with the overflow register circuits are normally provided at the time of installation, and are shown on the drawings for the traffic register circuits. The R or OF terminal of a register circuit is cross-connected to the OF leads from the connector shelves which it serves.

**3.05 Strapping of Connectors:** At the release bank (No. 1 arc) terminal strip of each connector serving the lines for which overflow data are to be obtained, strap terminal B or 12 to the highest numbered terminal associated with that group of lines.