

**BELL SYSTEM PRACTICES**  
**Station Installation and Maintenance**

**SECTION C64.230**  
**Issue 2, May, 1956**  
**AT&T Co Standard**

## **COIN COLLECTORS**

### **COMMON BATTERY—CONNECTIONS**

### **WITH 685-TYPE SUBSCRIBER SET**

#### **1. GENERAL**

1.01 This section covers connections for coin collectors arranged for use with 685-type (network) subsets. It is reissued to change the instructions for field conversions and delete connections for S-type collectors. Due to extensive changes, marginal arrows have been omitted.

1.02 Coin collectors converted by the Western Electric Company are identified by the addition of the letter N to the regular code number, e.g., 191G is coded 191GN, etc.

1.03 The N-coded coin collector and the 685-type subset provide the characteristics of the 500 series telephone set.

1.04 For this purpose the 685A subset is normally used.

1.05 A 685B subset (685A equipped with an S36 relay) should be installed where the loop resistance or ground potential causes faulty coin relay operation. This set is used in lieu of the 634CG and 634CH subsets.

1.06 Installations beyond the transmission limits of the 500-type set should be equipped with a local battery talking subset and an appropriate coin collector.

1.07 Long-loop and LBT-CBS connections should not be used without proper authorization.

#### **2. CONNECTIONS**

2.01 For manual service, transfer gong transmitter lead from terminal BK to Y in the upper housing. At the switchhook terminals on the backplate, strap W and BBX in place of BB and BBX terminals.

2.02 When filter is provided, connect yellow dial lead to filter bracket terminals. Connect red to Y and black to BK at upper housing terminals.

2.03 Only the 191-, 195-, 196-, and 197-type coin collectors which are equipped with lightweight switchhook springs for the G-type handset, as indicated by an auxiliary helical spring at the location shown in Fig. 1, may be converted in the field for use with the 695-type subset as follows:

- (a) Remove the induction coil, capacitor, varistor, and F-type handset from the backplate. Remove the green conductor from GN of the switchhook and the red conductor from R of the transfer spring.
- (b) Install the P-10C724 terminal plate assembly at the former location of the induction coil (see Fig. 1). Install the G1B handset.
- (c) In the upper housing, move the red-white lead from BKX to R. Move the capacitor lead from E to X. Connect the KS-13490, List 2, 10-ohm resistor between E and X. Shape and cut the leads to locate the resistor approximately 1/2 inch below terminal E. Hold the lead at the resistor with the tip of longnose pliers to avoid damaging the resistor.
- (d) Place necessary additional local wiring between the coin collector and the subset, and make connections as shown in Fig. 5 and in Section C63.223, Subscriber Sets, Connections, Common Battery.

2.04 Conversions of older type coin collectors is not recommended.

#### 2.05 **Converted Coin Collectors**

Type	Feature	Fig.
181EN, GN	5¢ Prepay	2
182CN	5¢ Postpay, Manual	3
183EN, GN	5¢ Postpay, Dial (CDO)	4
191, 195, 196, 197EN, GN	10¢ Prepay	5
193, 198EN, GN	10¢ Postpay Dial (CDO)	6

### **Adjustment of Relay**

2.06 The S36 relay in the 685B subset operates to connect the tip and ring of the line together at the station whenever coin collect or refund current is applied to the line.

2.07 This relay should not require adjustment at the time of installation. However, in some cases, this adjustment changes, especially when the set must be mounted under a booth shelf. If the relay fails to operate satisfactorily, it should be re-adjusted or the subset should be replaced. A 35C test set or the equivalent may be used to readjust the relay in accordance with the following data:

### **Test Set Preparation**

Battery and Ground.

### **Test Clip Data**

Connect battery to M, connect ground to E.

### **DC Flow Requirements**

Operate—Test 47.0 ma, readjust 44.5 ma.

Nonoperate—Test 37.5 ma, readjust 39.5 ma.

**Note:** For Operate Requirements, slowly increase current to the above values using a battery supply of not less than 3 volts.



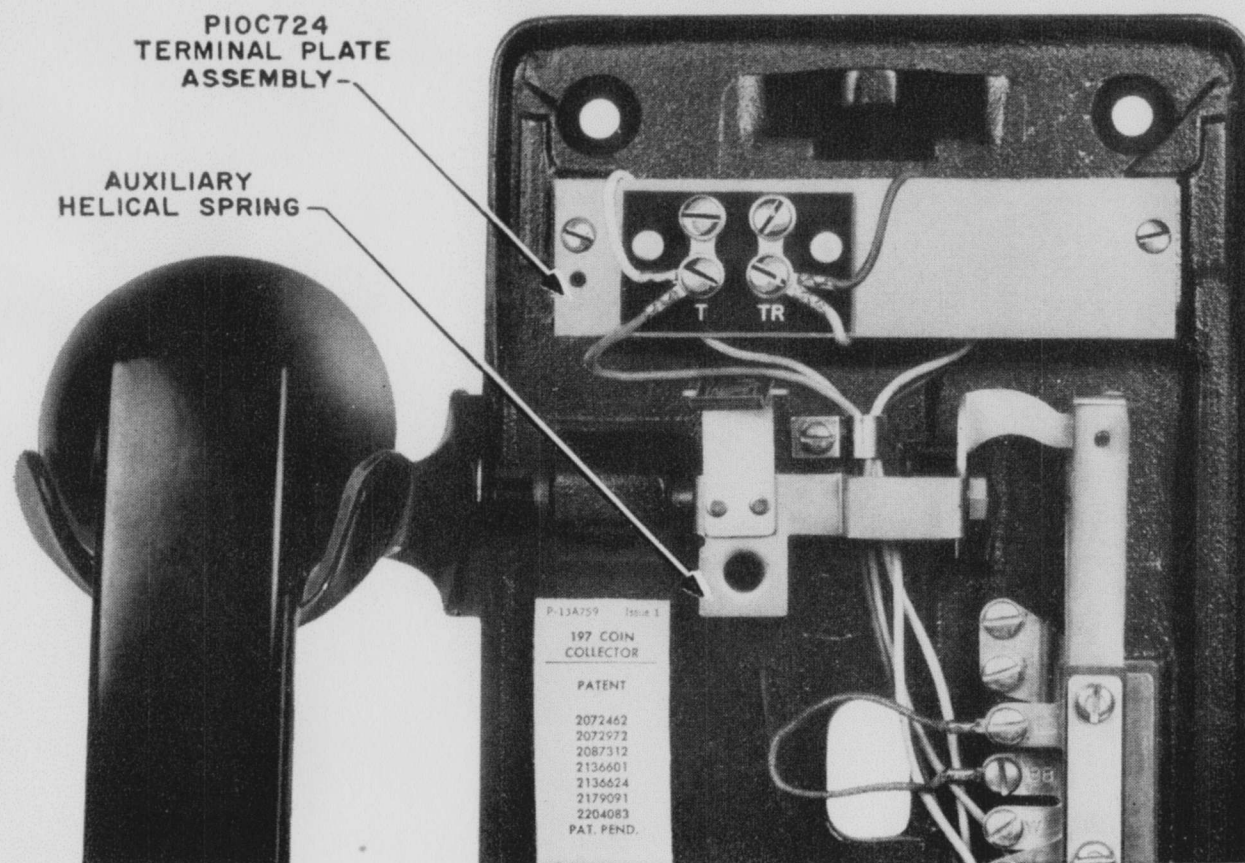


Fig. 1—Terminal Plate Assembly

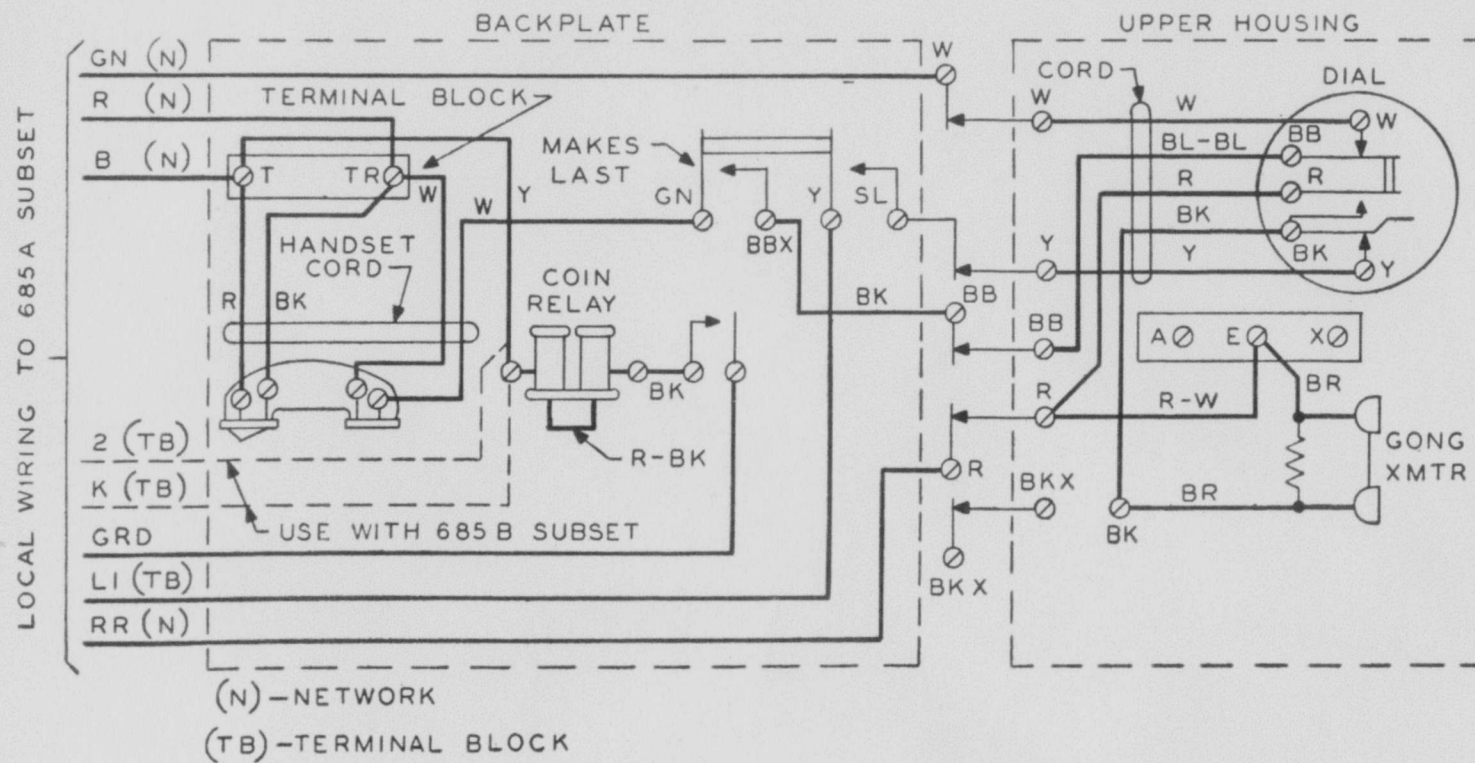


Fig. 2—181EN and GN Coin Collector

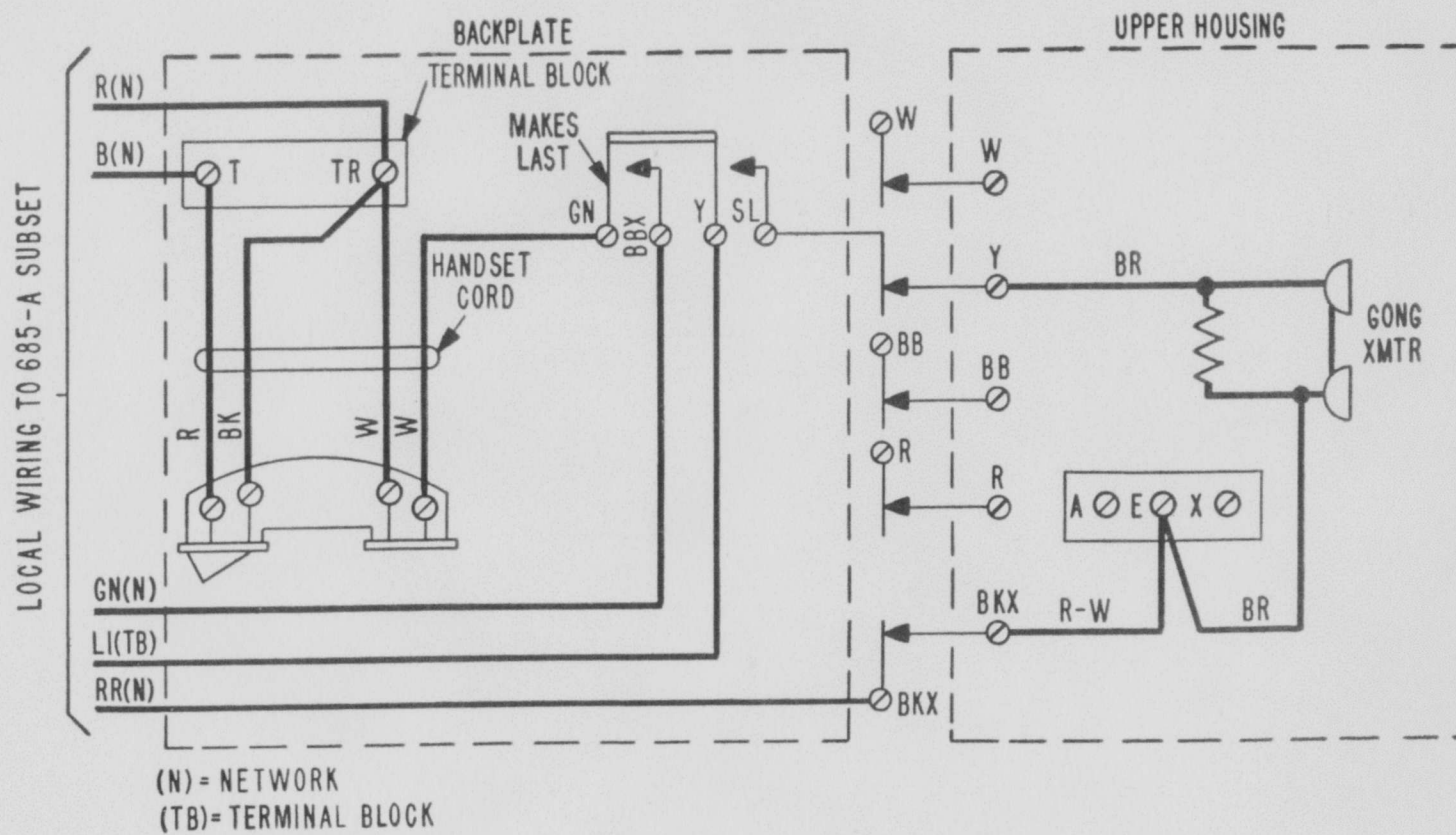


Fig. 3—182CN Coin Collector



# LOCAL WIRING TO 685A-SUBSET

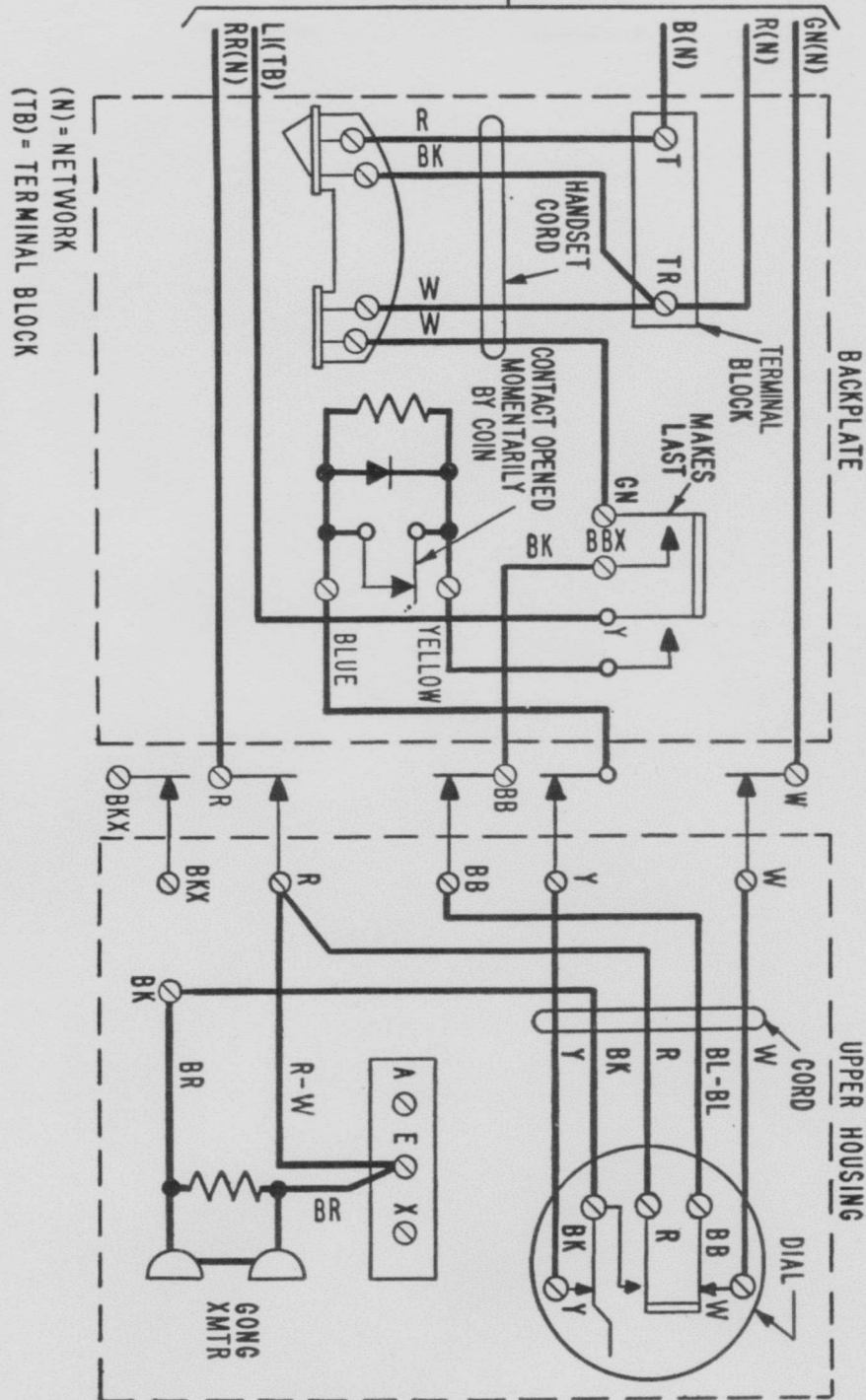


Fig. 4—183EN and GN Coin Collector

COIN COLLECTORS  
COMMON BATTERY—  
CONNECTIONS  
WITH  
C64.230 685-TYPE  
SUBSCRIBER  
SET

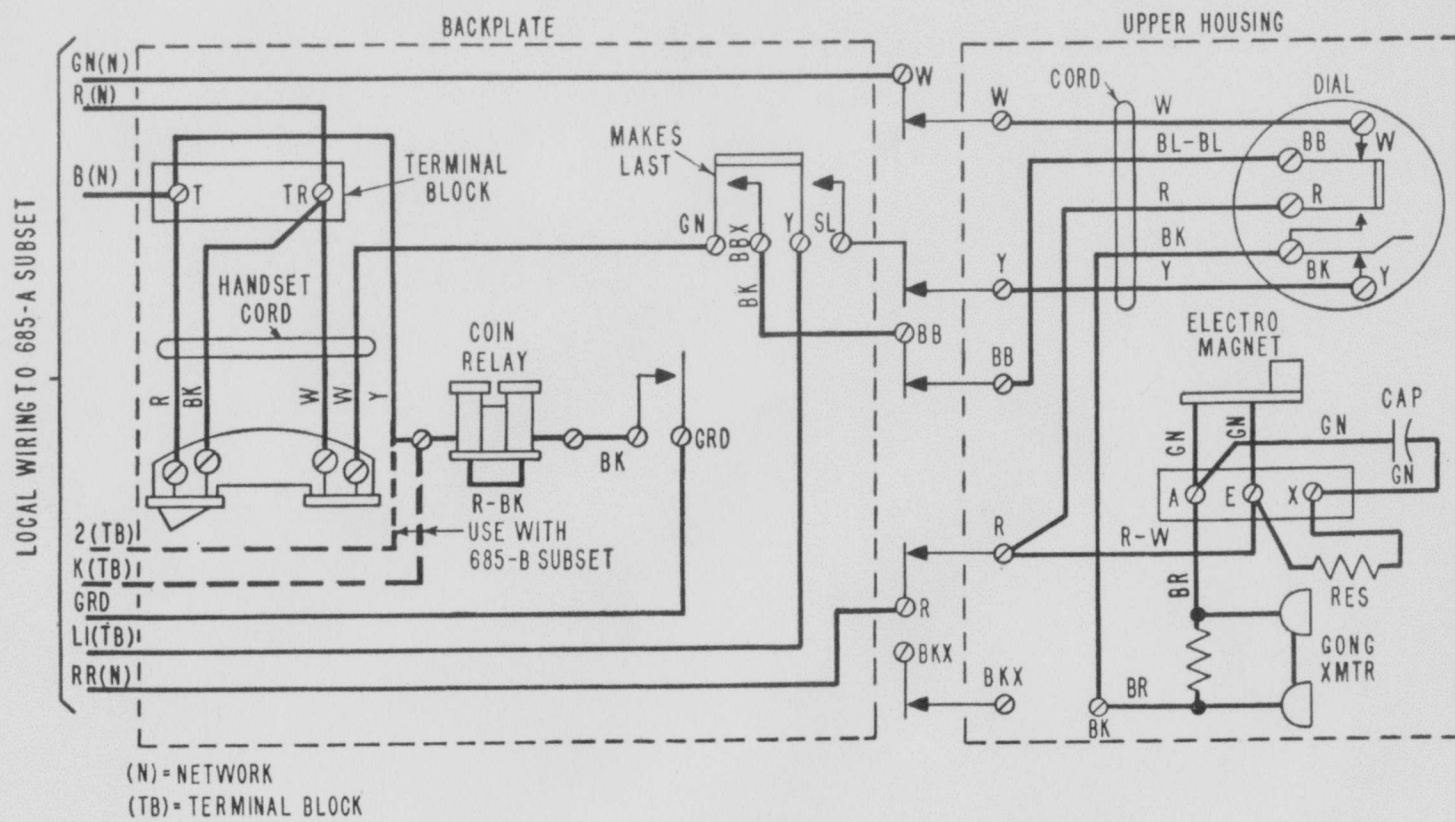


Fig. 5—191, 195, 196, and 197 EN and GN Coin Collectors



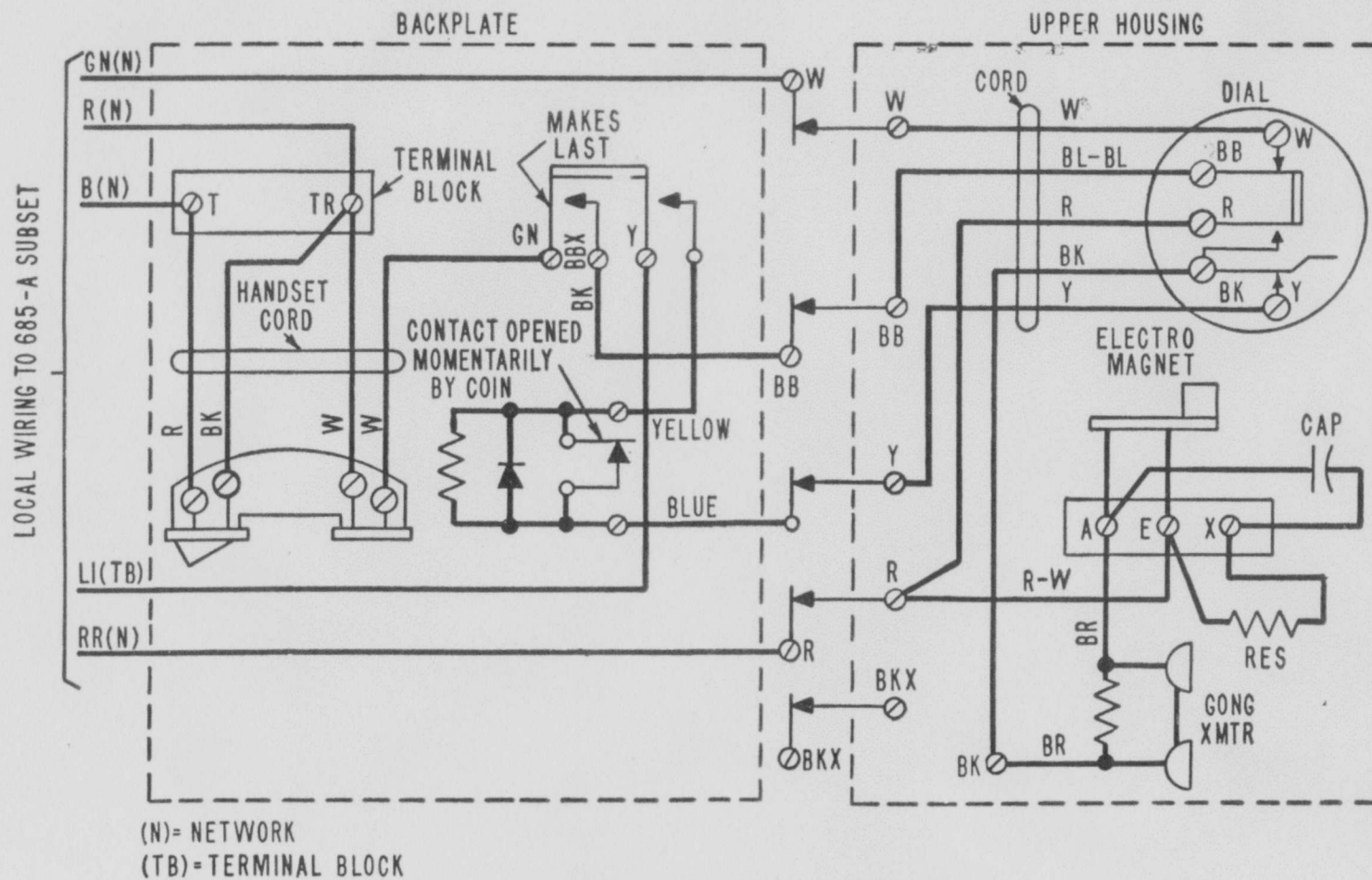


Fig. 6—193EN and GN Coin Collector