

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C64.241
Issue 3, 9-10-52
AT&T Co Standard

PREPAYMENT COIN COLLECTORS

55, 74, 155, 166, 174, 176, 191, 195 TYPES

D-178457, D-178875, D-178940, D-178942,

D-179432, D-179433

COMMON BATTERY—CONNECTIONS

1. GENERAL

1.01 This section covers the connections of 55, 74, 155, 166, 174, 176, 191, and 195-type, D-178457, D-178875, D-178940, D-178942, D-179432, and D-179433 coin collectors for use at common battery antisidetone stations on a 10¢ initial charge basis. It is reissued to include the D-179432 and D-179433 (dial shorting) coin collector, now shown in added Fig. 15, to include the 195-type (pull bucket) coin collector covered in Figs. 9, 15, and 20, to modify the long loop circuits to prevent fraudulent operation, and to bring the color designations and notes of various circuit diagrams into agreement and up to date. The revisions in the circuits are of such a nature that the use of arrows to indicate changes is not practicable.

1.02 In some cases due to limiting loop conditions, when stations are converted from 5¢ to 10¢ operation, it may be necessary to provide local battery talking connections. Such a change should only be made when called for on the order. Local battery talking, common battery signaling connections are covered in Section C64.242.

1.03 The line wires need not terminate in the coin collectors, as shown in the connection diagrams herein, but may terminate at the associated terminals in the subscriber sets when desired by the Telephone Company.

2. STANDARD CONNECTIONS—COMMON BATTERY

2.01 Except for 191 and 195-type coin collectors, the 634A or 634BA, or the 684A or 684BA subscriber set is used with the standard coin collector. An extension ringer or a loud ringing bell is used with the 191 and 195-type coin collector. ←

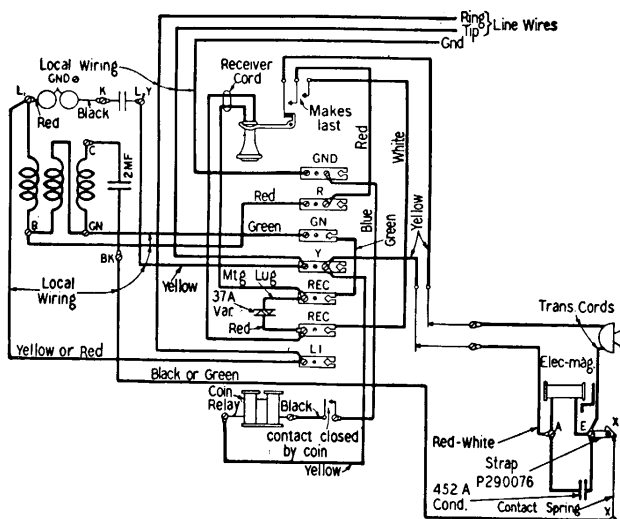


Fig. 1—55AC Coin Collector

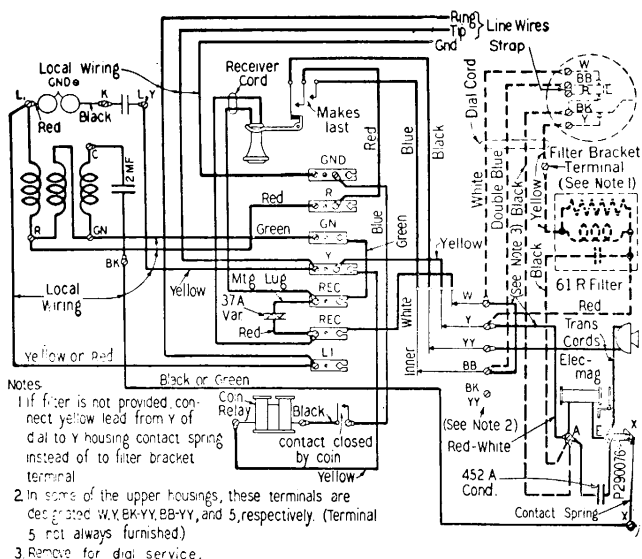


Fig. 2—55C, E, or G Coin Collector

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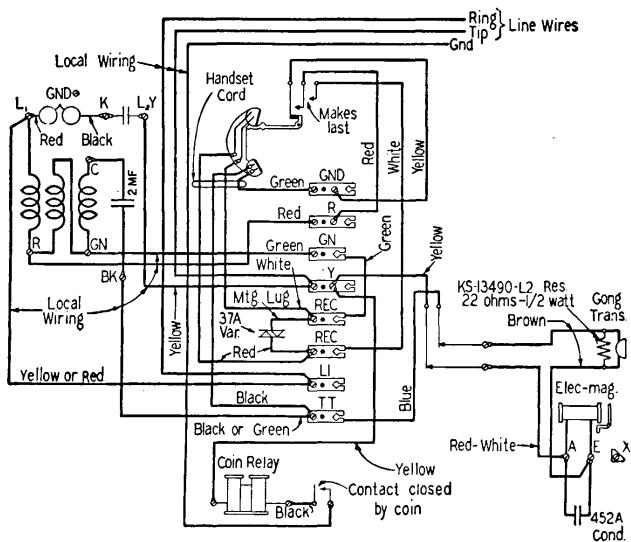
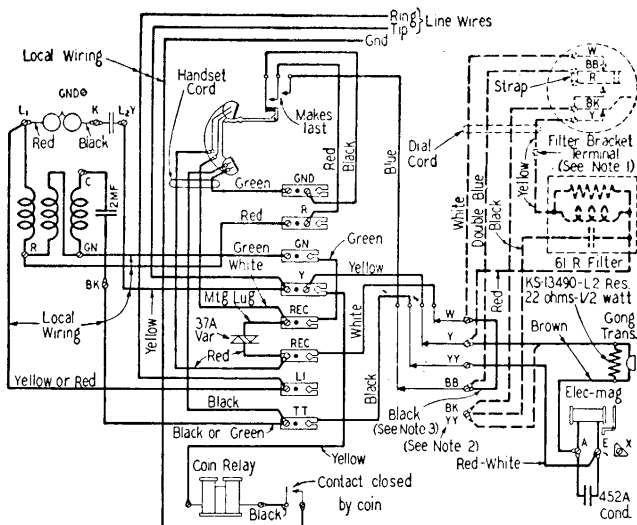


Fig. 3—74AC Coin Collector



Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y of housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, BK-YY, BB-YY, and 5, respectively (Terminal 5 always furnished)
3. Remove for dial service.

Fig. 4-74C, E, or G Coin Collector

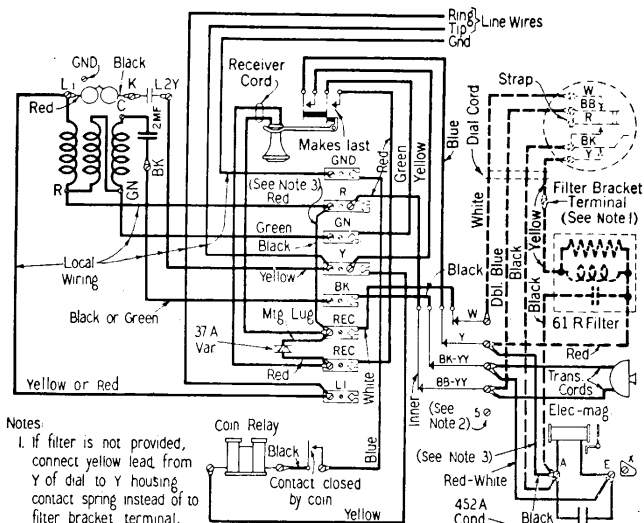
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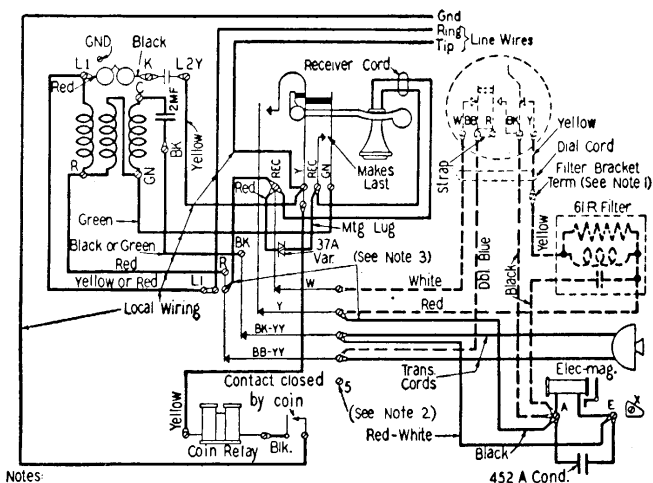
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**Fig. 5—155C, E, or G Coin Collector**

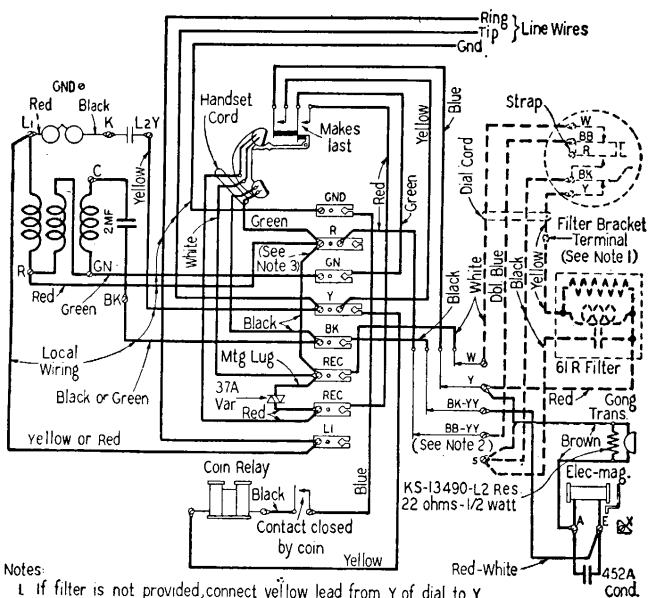


Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively. (Terminal 5 not always furnished)
3. Remove for dial service.

Fig. 6—166C, E, or G Coin Collector

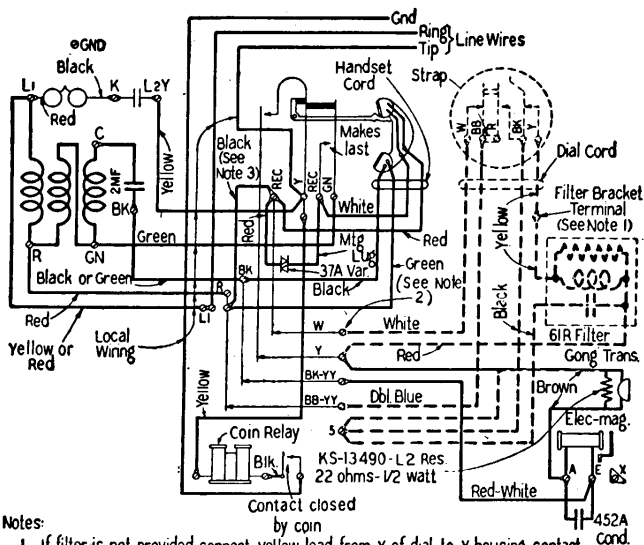
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Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively (Terminal 5 always furnished.)
3. Remove for dial service.

Fig. 7—174C, E, or G Coin Collector



Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively. (Terminal 5 always furnished.)
3. Remove for dial service.

Fig. 8—176C, E, or G Coin Collector

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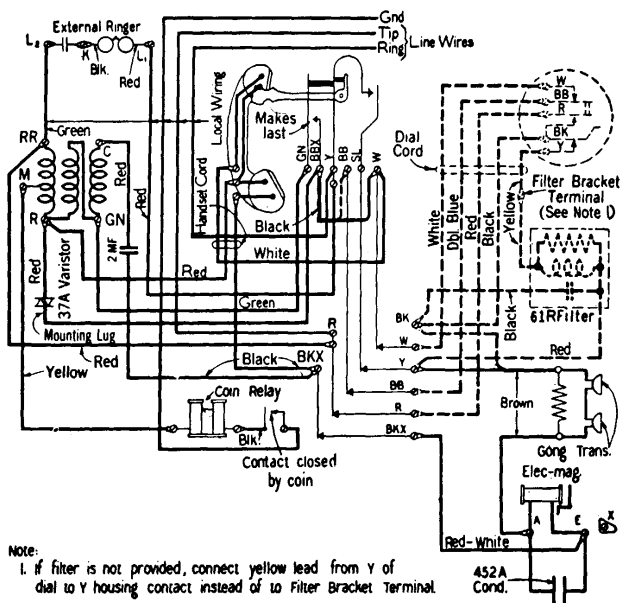


Fig. 9—191C, E, or G Coin Collector with 101B Ind. Coil

3. DIAL SHORTING CONNECTIONS— COMMON BATTERY

3.01 The 634A or 634BA, or the 684A or 684BA subscriber set is used with the D-178457, D-178875, D-178940, or D-178942 coin collector. Extension ringer or loud ringing bell is used with the D-179432 and D-179433 coin collectors. The collector is equipped with the D-96590 (3-spring type) coin relay which short-circuits the pulsing contacts of the dial until a coin reaches the hopper.

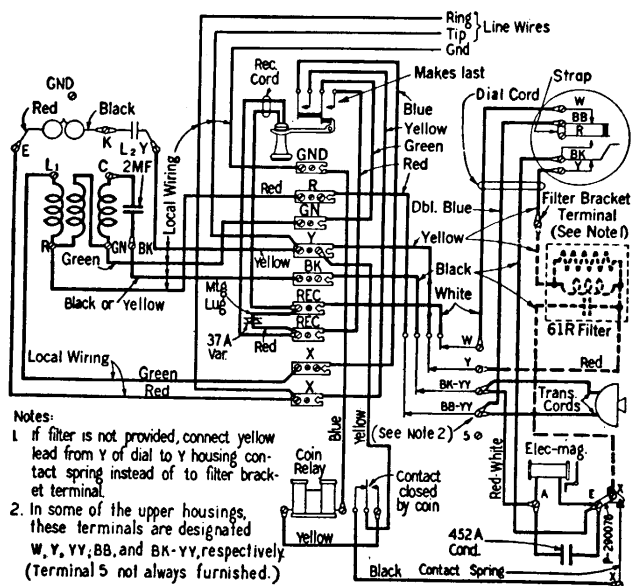


Fig. 11—D-178457 Coin Collector

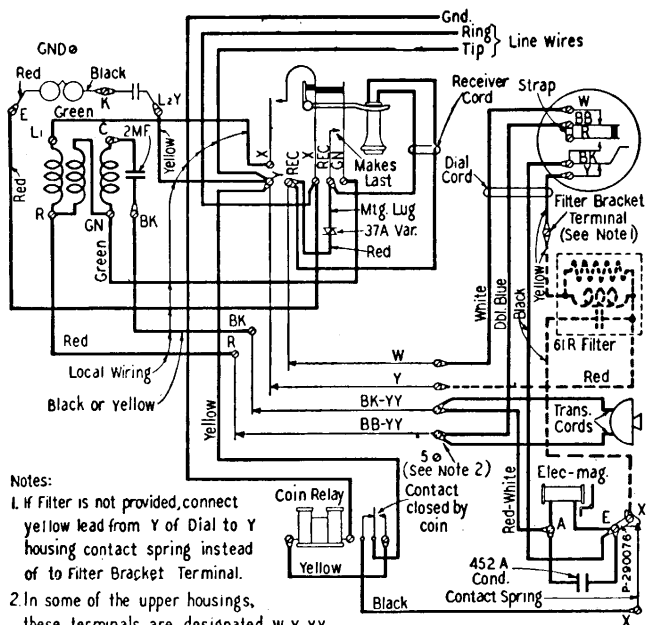


Fig. 12—D-178875 Coin Collector

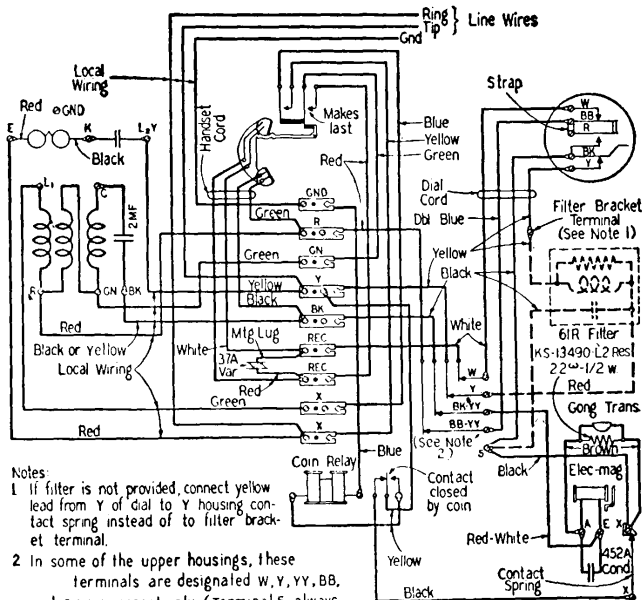
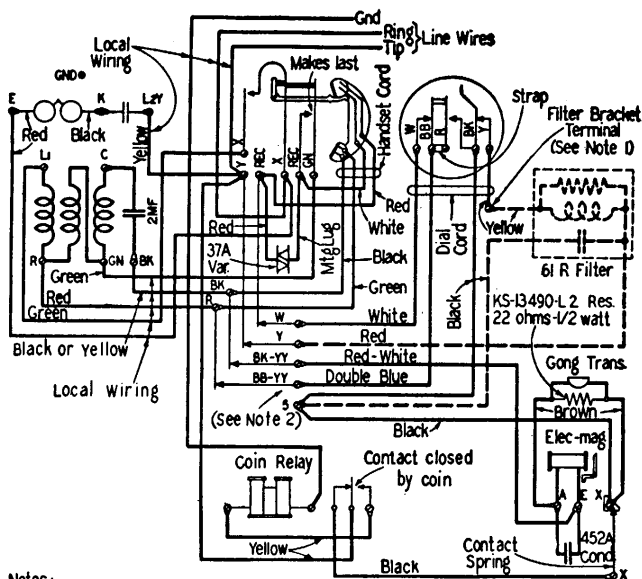


Fig. 13—D-178940 Coin Collector



Notes:

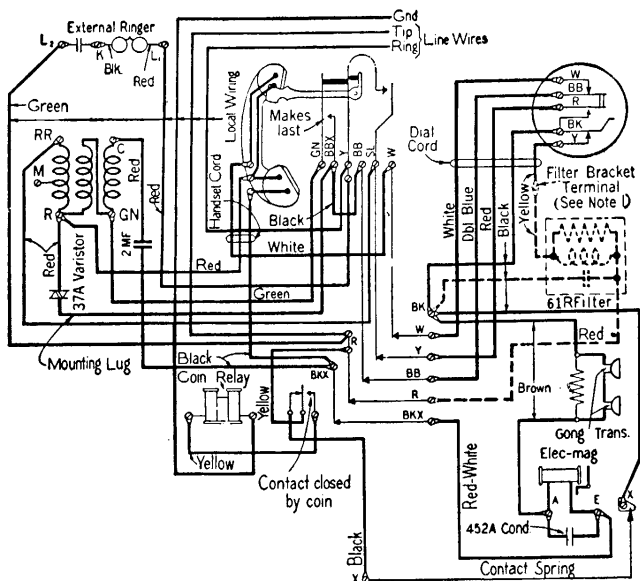
1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to Filter Bracket Terminal.
2. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively (Terminal 5 always furnished.)

Fig. 14—D-178942 Coin Collector

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Note:

1. If filter is not provided, connect yellow lead from Y of dial to R housing contact instead of to Filter Bracket Terminal.

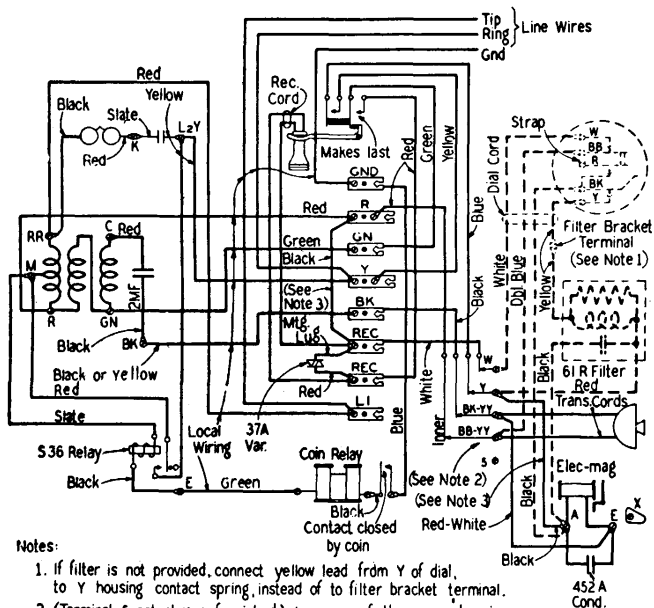
Fig. 15—D-179432 or D-179433 Coin Collector

4. LONG LOOP CONNECTIONS—COMMON BATTERY

4.01 The 634CG or 634CH subscriber set is used with the standard coin collector. This station arrangement is used on long loops where loop resistance or ground potential makes it impractical to employ the standard station connections. The subscriber set will require some wiring changes when used with the 191 and 195-type coin collector, since the induction coil and the 2-mf condenser in the subscriber set are not employed.

4.02 As the coin range of these coin collectors is dependent upon the type and arrangement of the central office equipment to which they are connected, these coin collectors should not be used without proper authorization in the form of a service order or other local instruction.

4.03 The connections for this service require some wiring changes, in the coin collector and possibly in the subscriber set, and in the local wiring between the collector and subscriber set, from those of a standard station.



Notes:

1. If filter is not provided, connect yellow lead from Y of dial, to Y housing contact spring, instead of to filter bracket terminal.
2. (Terminal 5 not always furnished.) In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY.
3. Remove for dial service.
4. Yellow lead between relay and Y terminal on connecting block, furnished on common battery coin collectors, is removed for long loop service. This lead may be connected to Y terminal and taped at other end.

Fig. 16—155C, E, or G Coin Collector with 634CG or CH Sub. Set

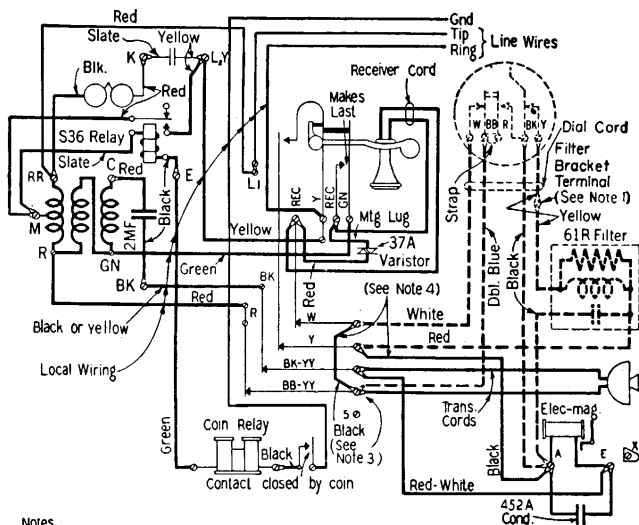
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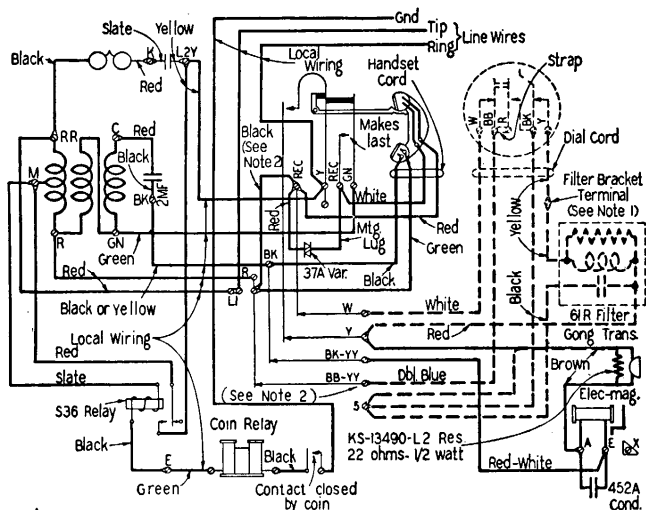
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Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y of housing contact spring instead of to filter bracket terminal.
2. Yellow lead between relay and Y terminal on switchhook pile-up, furnished on common battery coin collectors, is removed for long loop service. If this lead is connected to Y terminal and taped at other end, it should be removed.
3. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively (Terminal 5 not always furnished.)
4. Remove for dial service.

Fig. 17—166C, E, or G with 634CG or 634CH Sub. Set



Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, YY, BB, and BK-YY, respectively. (Terminal 5 always furnished.)
3. Remove for dial service.

Fig. 19—176C, E, or G Coin Collector with 634CG or CH Sub. Set

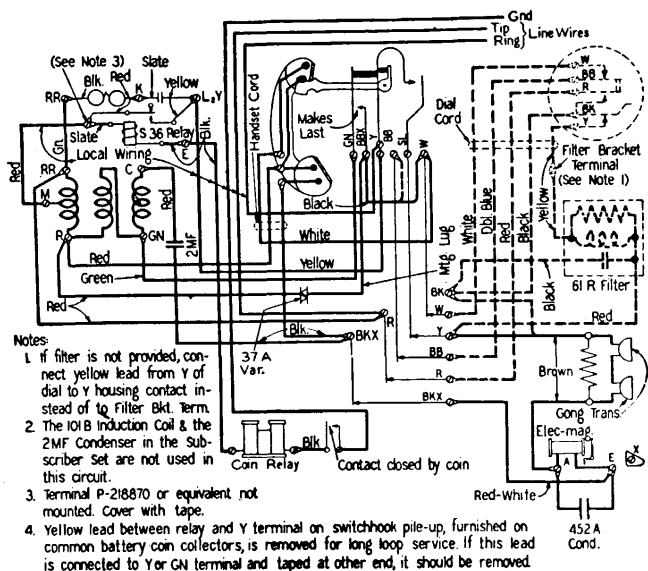


Fig. 20—191C, E, or G Coin Collector with 634CG or CH Sub. Set

Adjustment of Relay

4.04 The subscriber set contains an S36 relay that operates to connect the tip and ring of the line together at the station whenever coin current is applied to the line.

4.05 These subscriber sets are furnished with the S36 relay properly adjusted and it should not ordinarily require adjustment at the time of installation. However, in some cases, this adjustment changes somewhat. If the relay fails to operate satisfactorily, it should be readjusted or the subscriber set

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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

Direct Current Flow Requirements

Operate—Test 47.0 M.A. Readjust 44.5 M.A.

Non-operate—Test 37.5 M.A. Readjust 39.6 M.A.

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

**5. INDUCTION REDUCTION CONNECTIONS—
COMMON BATTERY**

5.01 The 634CK or 634CL, or the 684CK or 684CL subscriber set is used with the receiver-type and converted handset-type coin collector to reduce noise induction from power lines. These subscriber sets contain a 101B induction coil with connections to center tap (terminal M) to alleviate the large shunt unbalance inherent in the older subscriber sets.

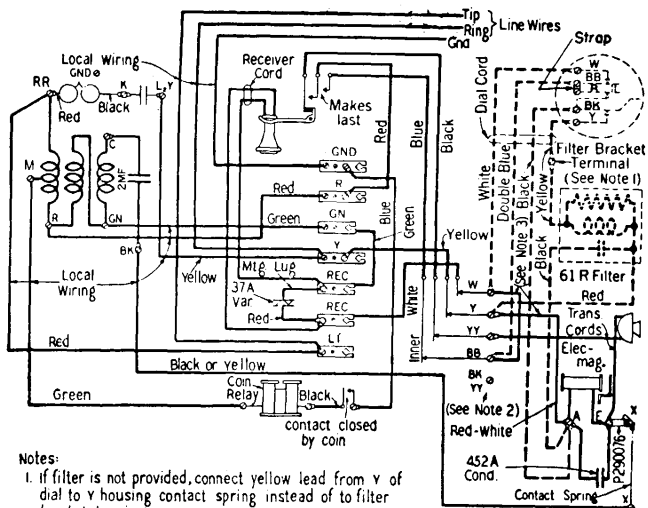
Note: The standard connections for 191 and 195-type (handset) coin collector having a 101B induction coil are wired for induction reduction noted above.

5.02 Where noise reduction afforded by the station arrangements covered above is not adequate, it may also be necessary to replace the 452A condenser (4 mf) in the coin collector by a KS-14505 condenser (25 mf electrolytic) to keep noise within acceptable limits.

Note: The above condensers mount interchangeably.

5.03 Station arrangements employing these subscriber sets or the KS-14505 condenser in the coin collector should be used only when specifically covered on the service order or other local instructions.

5.04 The connections for this service require some wiring changes, in the coin collector and in the local wiring between the collector and subscriber set, from those of a standard station.



Notes:

1. If filter is not provided, connect yellow lead from Y of dial to Y housing contact spring instead of to filter bracket terminal.
2. In some of the upper housings, these terminals are designated W, Y, BK-YY, BB-YY, and 5, respectively (Terminal 5 not always furnished.)
3. Remove for dial service

Fig. 21—55C, E, or G Coin Collector with 634CK or CL Sub. Set

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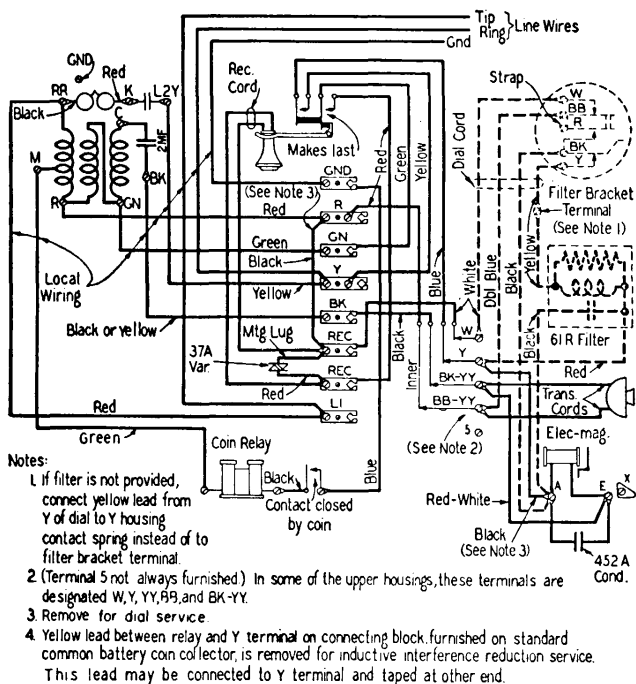


Fig. 22—155C, E, or G Coin Collector with 634CK or CL Sub. Set

