

SUBSCRIBER SETS—634YD  
LOCAL BATTERY  
USED WITH COIN COLLECTORS  
CONNECTIONS

1.00 INTRODUCTION

This section covers the combination of apparatus, circuit diagram, and connections for the 634YD subscriber set when associated with coin collectors for local battery talking — common battery signaling service.

2.00 GENERAL

2.01 These sets come equipped with either a 104A or 113D induction coil, but the coils are not interchangeable in the field. The corresponding terminals of the two coils are given below:

104A — L1	RBK	C	A	BL	SL
113D — S	S1	S2	S3	P	P

2.02 Means are provided in the sets whereby any one of four different network connections, A to D, may be made in the induction coil balancing circuit to obtain a satisfactory sidetone balance when sets are used on the different types of subscriber loops employed in the plant.

2.03 Unless otherwise specified, sets are furnished with A network as shown in the circuit diagrams herein. Necessary changes in the set to obtain the other networks are shown as follows:

Sets Equipped with 104A Induction Coils

**Network B:** Connect a KS-8058, 400-ohm, or KS-13490, List 2, 390-ohm resistor between A on induction coil and BK. Connect black lead from capacitor to wood screw (see Note 1).

**Network C:** Connect yellow lead from capacitor to C on induction coil, and connect one end of black strap on C to wood screw.

**Network D:** Connect black lead from capacitor to wood screw, and connect one end of black strap on C to BK.

Sets Equipped with 113D Induction Coils

**Network B:** Connect a 63FD or KS-8058, 280-ohm, or KS-13490, List 2, 300-ohm resistor between S3 on induction coil and BK (see Notes 1 and 2).

**Network C:** Connect white lead from S3 on induction coil to wood screw and connect black lead from capacitor to BK.

**Network D:** Connect black strap from S2 on induction coil to BK.

**Note 1:** The 63FD, KS-8058, 280-ohm, or KS-13490, List 2, 300-ohm resistor is not furnished as part of the set and must be obtained separately.

**Note 2:** To make this connection, the white lead from S3 on induction coil should be connected to any unused terminal on the set, and the resistor should be connected between that terminal and BK. If there is no unused terminal, an extra terminal should be added to the set.

2.04 When dry cells are employed for transmitter battery supply, they shall be connected in series with the battery terminals of the subscriber set, using the number of cells specified in the section which covers transmission zoning.

2.05 When stations receive transmitter battery supply from a common source, a filter is necessary in each transmitter circuit. This filter and its connections are covered in the section which deals with battery supply filters.

\*\*Reprinted to comply with modified final judgment.

**3.00 CONNECTIONS**

**3.01** To connect the subscriber set to its associated coin collector, the appropriate circuit diagram herein should be matched with the circuit diagram on the foldout page in the section covering the connections for the coin collector. It should be noted that changes in the wiring of the subscriber set are required in some cases; therefore, circuit diagrams should be followed closely.

**3.02** Connections in table form are also given for each type of subscriber set connection. Tables C, E, G, and J cover the connections when used with coin collectors.

**TABLE A**  
**COMBINATION OF APPARATUS**

Sub. Set Code	Components		
	Induction Coil	Capacitor	Ringer
634YD	104 and 101A or 113D and 46B	2 — 149B, 1149B, 449B, or 449H and 1 — 147A, 147AB, or 447A <i>or</i>	6J, 6JA, 8J, 8JA, 68J, 68JA, or B1AL
		1 — 149B, 1149B, 449B, or 449H and 1 — 149D or 449D and 1 — 147A, 147AB, or 447A <i>or</i>	
		1 — 387A	

3.03 Circuit diagram of 634YD subscriber set when used with coin collector type 150, 152, 158, 162, 164, 168, 177, 178, or 182:

INSIDE WIRE FROM PROTECTOR OR LINE

RINGING CIRCUIT

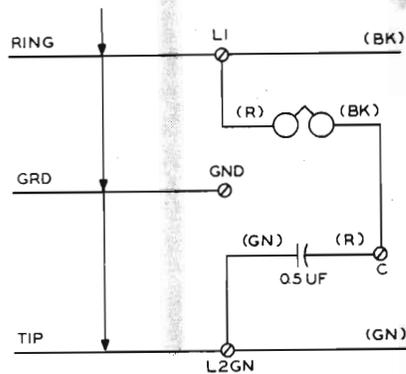


TABLE B  
ASSOCIATED APPARATUS

Type of Service	Coin Collector	
	Hand Set	Rvtr, Xmtr
Postpay—CDO 10-Cent Operation	177GL, HL	158GL, HL
	178GL, HL	168GL, HL
Postpayment—Manual	152C, D	150K, L
	164C, D	162A, B
	182C, D	162C, D

TALKING CIRCUIT

LOCAL WIRING

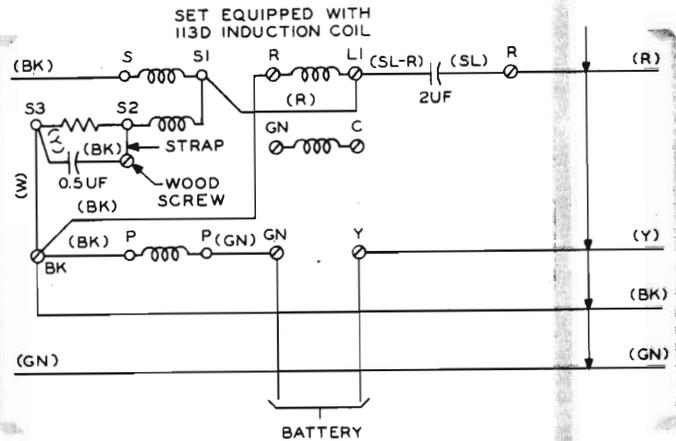
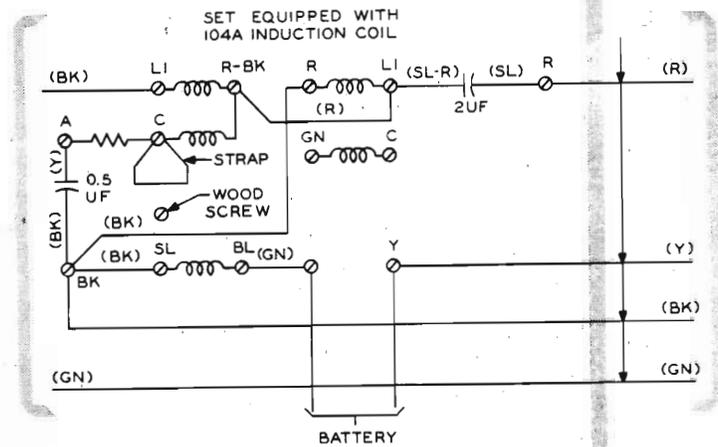


TABLE C  
CONNECTIONS

Wire or Lead	Terminals on Sub. Set Used with Coin Collector, Type 150, 152, 158, 162, 164, 168, 177, 178, or 182	
	Hand Set	Rvtr, Xmtr
Inside Wire from Protector or Line	Ring	L1
	Tip	L2GN
	GND	GND
Ringer Lead	R	L1
	BK	C
Ringer Capacitor Lead	R	C
	GN	L2GN
Local Wiring to Coin Collector	R	R
	Y	Y
	BK	BK
	GN	L2GN



3.04 Circuit diagram of 634YD subscriber set when used with coin collector type 155, 166, 174, or 176:

INSIDE WIRE FROM PROTECTOR OR LINE

RINGING CIRCUIT

TALKING CIRCUIT

LOCAL WIRING

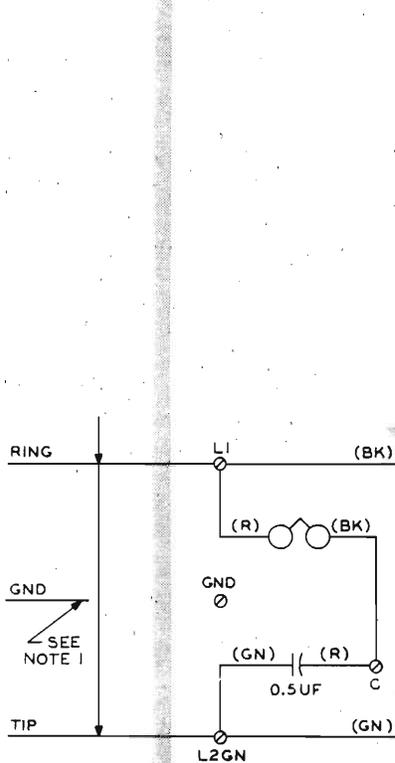
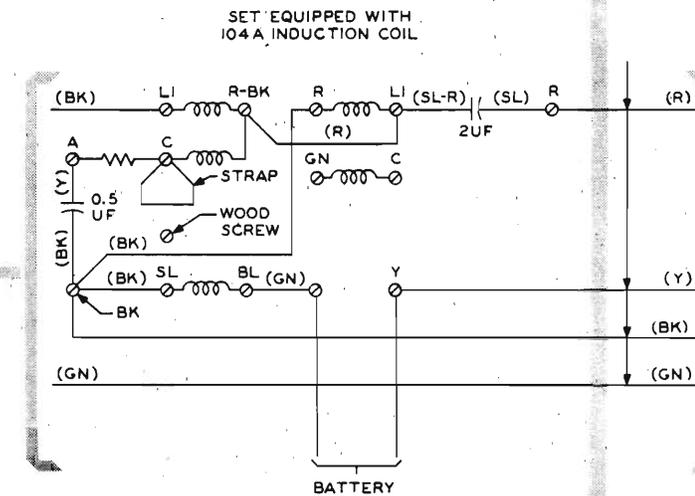


TABLE D  
ASSOCIATED APPARATUS

Type of Service	Coin Collector	
	Hand Set	Rcvr, Xmtr
Prepay — Dial or Manual 10-Cent Operation	174CL, DL, GL, or HL	155CL, DL, GL, or HL
	176CL, DL, GL, or HL	166CL, DL, GL, or HL
	176CL, DL, GL, or HL	174CL, DL, GL, or HL



Note 1: Terminate on GND terminal of coin relay.

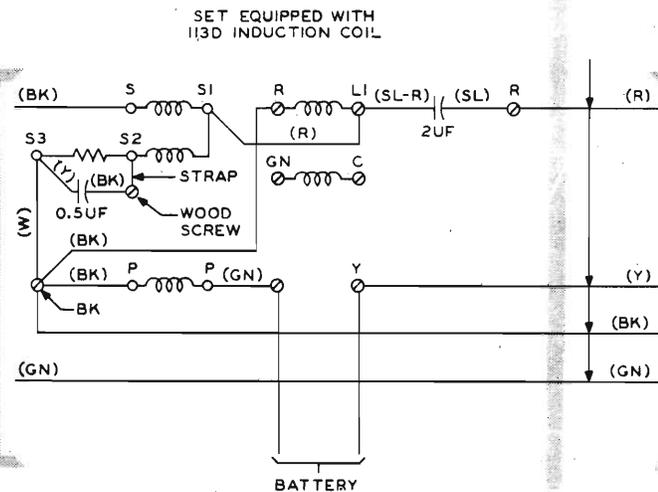


TABLE E  
CONNECTIONS

Wire or Lead	Terminals on Sub. Set Used with Coin Collector, Type 155, 166, 174, or 176	
Inside Wire from Protector or Line	Ring	L1
	Tip	L2GN
	GND	*
Ringer Lead	R	L1
	BK	C
Ringing Capacitor Lead	R	C
	GN	L2GN
Local Wiring to Coin Collector	R	R
	Y	Y
	BK	BK
	GN	L2GN

Note: The line wires need not terminate in the subscriber set as shown in the circuit diagram and table, but may terminate at the associated terminals in the coin collector when desired by the telephone company. However, in the coin collector types 166 and 176, no terminal is available to terminate the ring conductor of the line wire.

\* Terminate on GND terminal of coin relay.



3.05 Circuit diagram of 634YD subscriber sets when used with coin collector type 193:

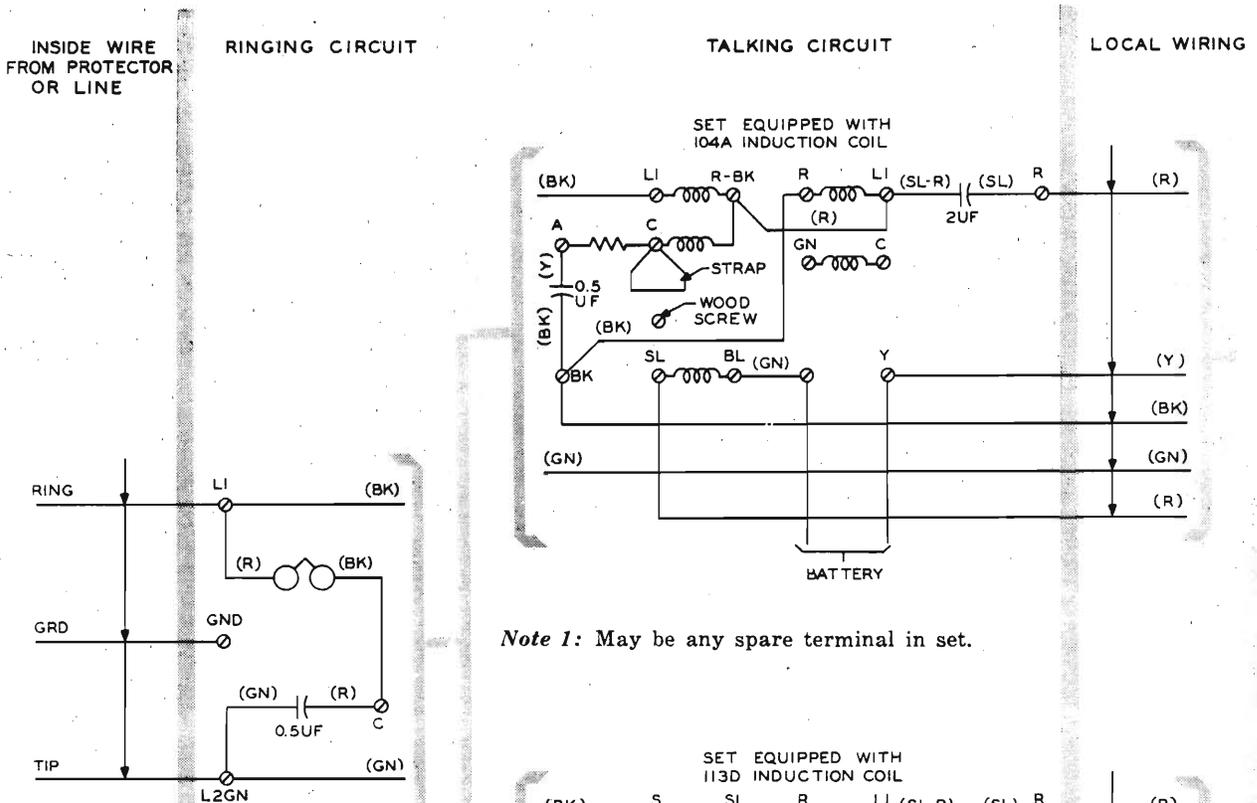


TABLE F  
ASSOCIATED APPARATUS

Type of Service	Coin Collector Hand Set
Postpay — CDO 10-Cent Operation	193GL and HL

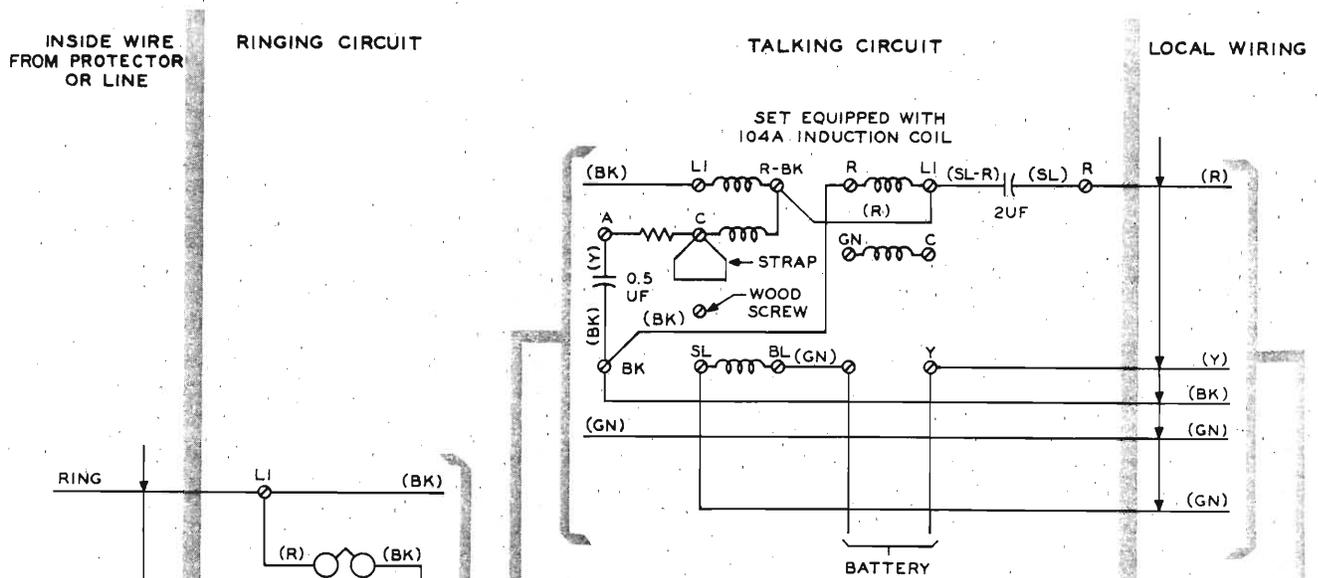
TABLE G  
CONNECTIONS

Wire or Lead	Terminals on Sub. Set Used with Coin Collector, Type 193	
Inside Wire from Protector or Line	Ring	L1
	Tip	L2GN
	GND	GND
Ringer Lead	R	L1
	BK	C
Ringing Capacitor Lead	R	C
	GN	L2GN
	R	R
Local Wiring to Coin Collector	Y	Y
	BK	BK
	GN	L2GN
	R	SL or *

\* Use any spare terminal in set to which wire conductor and the black lead from P on induction coil may be connected together. If there is no unused terminal available, an extra terminal should be added to the set.



3.06 Circuit diagram of 634YD subscriber set when used with coin collector type 191:



Note 1: May be any spare terminal in set.  
 Note 2: Terminate on GND terminal of coin relay.

SEE NOTE 2

TABLE H  
 ASSOCIATED APPARATUS

Type of Service	Coin Collector Hand Set
Prepay — Dial or Manual 10-Cent Operation	191CL, DL, GL, or HL

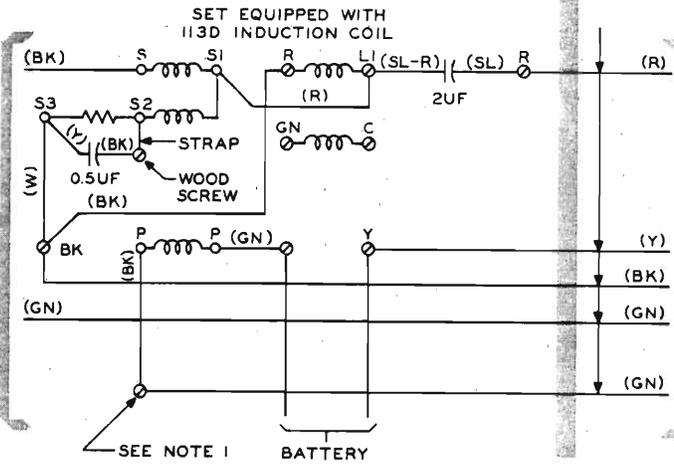


TABLE J  
 CONNECTIONS

Wire or Lead		Terminals on Sub. Set Used with Coin Collector, Type 191
Inside Wire from Protector or Line	Ring	L1
	Tip	L2GN
	GND	*
Ringer Lead	R	L1
	BK	C
Ringing Capacitor Lead	R	C
	GN	L2GN
Local Wiring to Coin Collector	R	R
	Y	Y
	BK	BK
	GN	L2GN
	GN	SL or †

Note: The line wires need not terminate in the subscriber set, as shown in the circuit diagram and table, but may terminate at the associated terminals in the coin collector when desired by the telephone company.  
 \* Terminate on GND terminal of coin relay.  
 † Use any spare terminal in set to which wire conductor and the black lead from P on induction coil may be connected together. If there is no unused terminal available, an extra terminal should be added to the set.

