

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C63.418
Issue 2, May, 1953
AT&T Co Standard

TELEPHONE SETS

309 TYPE

CONNECTIONS

1. GENERAL

1.01 This section covers the connections for the 309 type telephone sets used at local battery talking, common battery signaling stations on polarized ringing lines of the following classes of service.

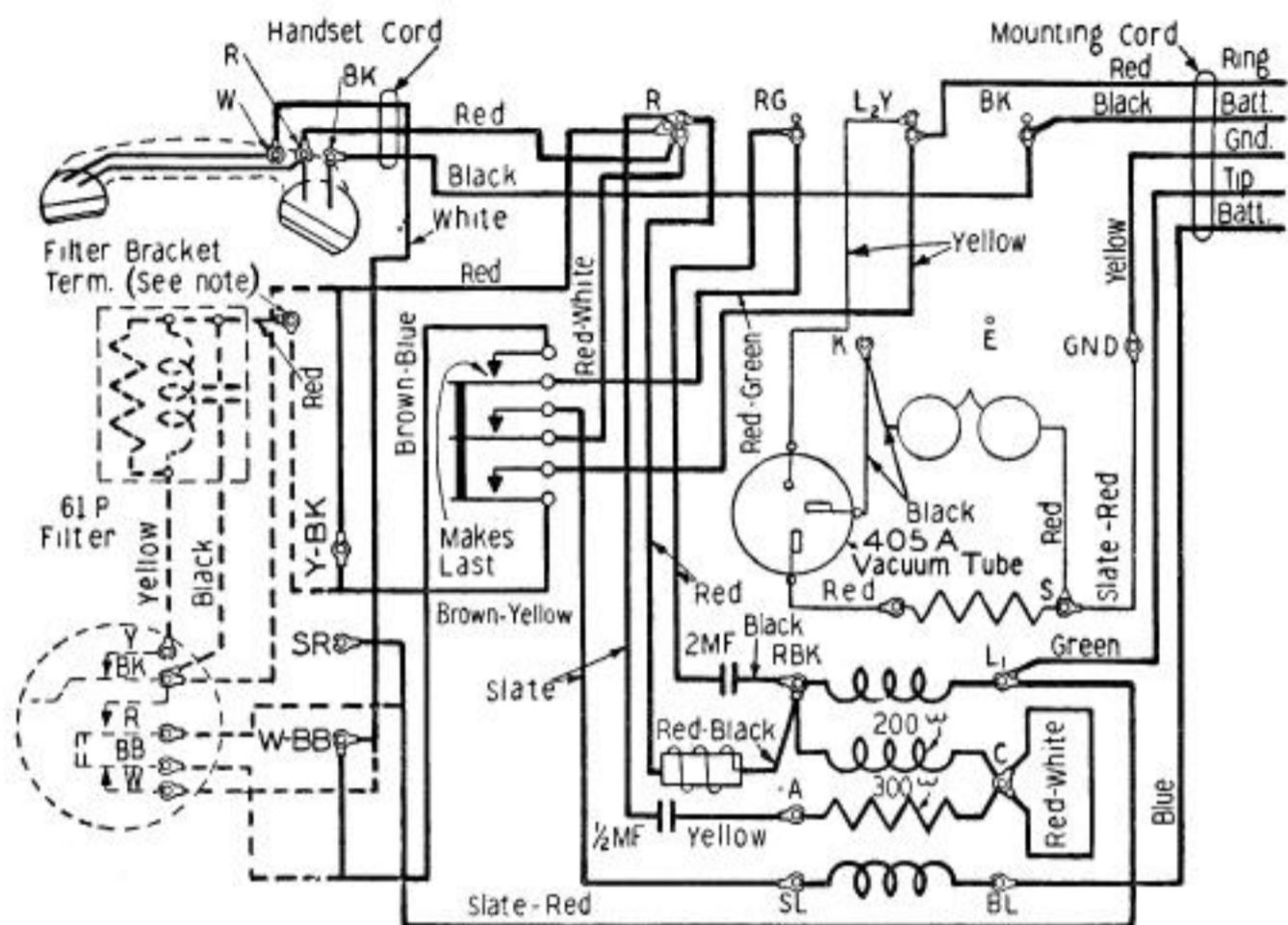
Four-Party Selective (Manual and Dial)

Eight-Party Semi-Selective (Manual and Dial)

1.02 This section is reissued to include information for sets equipped with a 426A vacuum tube and to make other minor changes.

2. CONNECTIONS

2.01 The 309 type telephone sets as furnished may have either a 405A or a 426A vacuum tube and are connected for use on the (—) ring party as shown in Fig. 1. Tables 1 and 2 show the ringer and mounting cord connections in the set for all parties.



Note:
 If filter is not provided connect brown yellow lead from switch contacts to Y of dial instead of to filter bracket terminal. Terminals Y-BK, SR and W-BB are on the manual set apparatus blank.

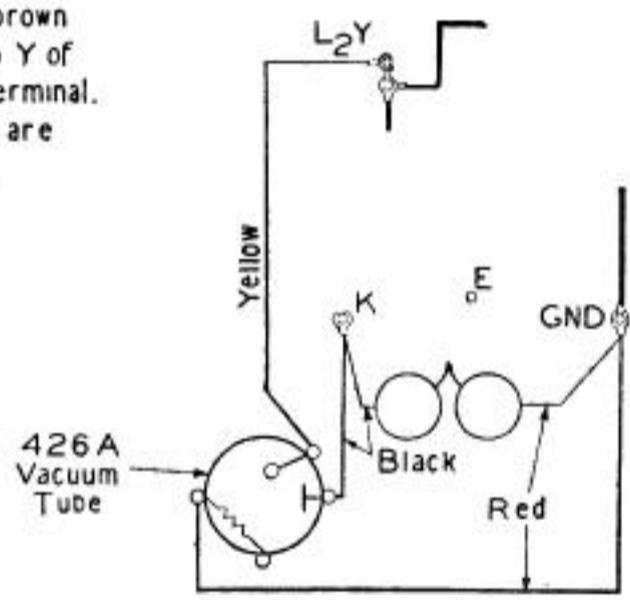


Fig. 1—309 Type Telephone Sets—Connections

TABLE 1 (With 405A Vacuum Tube)

Connections in Set

Parties	Tube Leads			Lead from Terminal S	Ringer Leads		Mtg. Cord Conductors				
	Y	R	BK	SL-R	BK	R	R	GN	Y	BK	BL
(-) Ring	L2Y	*	K	GND	K	S	L2Y	L1	GND	BK	BL
(+) Ring	GND	*	K	L2Y	K	S	L2Y	L1	GND	BK	BL
(-) Tip	L2Y	*	K	GND	K	S	L1	L2Y	GND	BK	BL
(+) Tip	GND	*	K	L2Y	K	S	L1	L2Y	GND	BK	BL

* Red vacuum tube lead is connected to undesignated end of resistance.

NOTE 1: Bold face type indicates connections that must be changed in the set as furnished.

NOTE 2: The black and blue mounting cord conductors are the local battery supply leads.

TABLE 2 (With 426A Vacuum Tube)

Connections in Set

Parties	Tube Leads			Ringer Leads		Mtg. Cord Conductors				
	Y	R	BK	BK	R	R	GN	Y	BK	BL
(-) Ring	L2Y	GND	K	K	GND	L2Y	L1	GND	BK	BL
(+) Ring	GND	L2Y	K	K	L2Y	L2Y	L1	GND	BK	BL
(-) Tip	L2Y	GND	K	K	GND	L1	L2Y	GND	BK	BL
(+) Tip	GND	L2Y	K	K	L2Y	L1	L2Y	GND	BK	BL

NOTE 1: Bold face type indicates connections that must be changed in the set as furnished.

NOTE 2: The black and blue mounting cord conductors are the local battery supply leads.

2.02 Where inductive noise is encountered at tip party stations, connect the Red lead from the 266A retard coil to RBK and the Red-Black lead to R.

2.03 For balancing network and battery supply filter connections see section entitled "L.B.T., C.B.S. Anti-Sidetone Stations, Balancing Network and Battery Supply Filter Connections."

2.04 Set ringer biasing spring on B3A ringer in the notch which gives the most satisfactory ring.

2.05 The ringing bridge is equivalent high impedance and the limitations given in the section entitled "Ringer Connection Limitations—Polarized Ringing Lines" should be observed in connecting this set.

2.06 Where the transmitter battery for more than one 309 type telephone set is obtained from a common source of supply such as a battery feed from the central office the following changes in Fig. 1 must be made.

Replace the F1A handset with an F2B.

Connect the green conductor of the F2B handset to terminal E.

Remove the red-white lead from terminal R and connect it to terminal E.

Connect the white, red and black conductors of the F2B handset cord the same as shown in Fig. 1 for the F1A handset.