

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C65.106
Issue 2, 3-10-47
AT&T Co Standard

6030A KEY FOR SUBSCRIBERS WITH IMPAIRED HEARING CONNECTIONS—COMMON BATTERY

1. GENERAL

1.01 This section covers the common battery station connections for the 6030A key which is used principally to provide increased receiver volume for subscribers with impaired hearing in those cases where the 332 and 334 type telephone sets are not applicable. It is reissued to delete connections for L.B.T., C.B.S. stations which are now included in another section and to add connections for the 653CE subscriber set.

1.02 Typical connections for wall set, telephone set, hand telephone set and desk stand stations are shown in this section. However, the 6030A key may be used with practically all types of anti-sidetone common battery station sets by bridging the amplifier input across the R and GN terminals of the 101A induction coil or across equivalent terminals of other common battery anti-sidetone coils and inserting the amplifier output in the receiver circuit. (See Figs. 1 **SEE ADDENDUM**)

1.03 The lever type key has three positions which provide the following:

- (a) Key in one operated position—Receiving volume high.
- (b) Key in normal position (center)—Receiving volume low.
- (c) Key in second operated position—Amplifier disconnected from the receiver circuit.

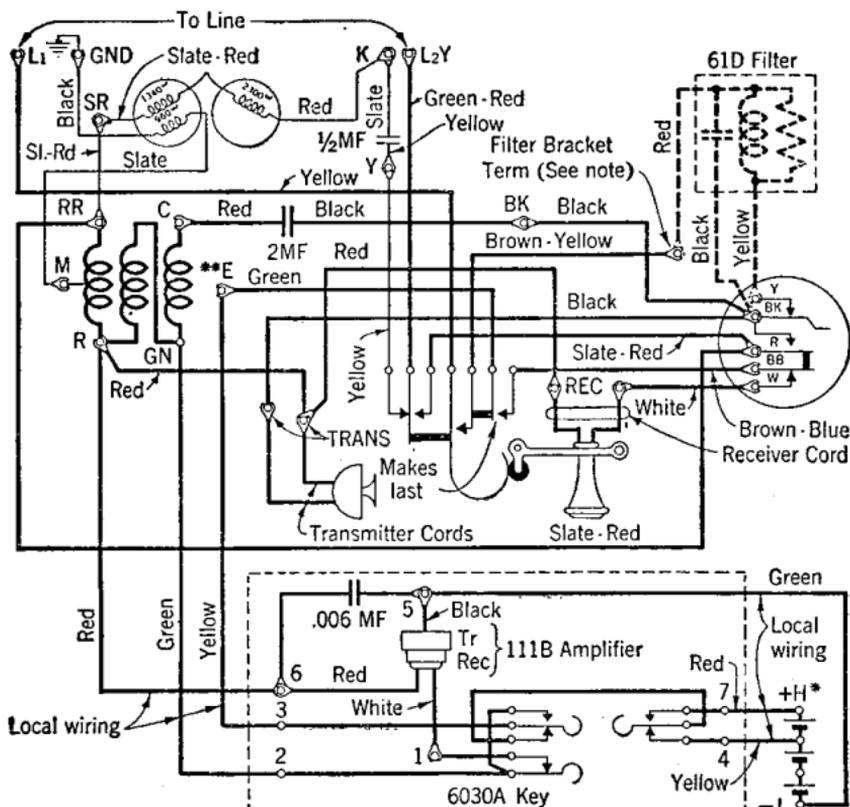
With the key set for high volume, howling may result. Use of the amplifier at low volume setting for more satisfactory results and method of preventing howling should be explained to the subscriber as covered in Section C54.114 for the 332 and 334 type telephone sets.

1.04 In general three dry cells, such as the KS-6542 Blue Bell Dry Cells are used for the amplifier battery supply. In Figs. 1 to 5 two cells are connected with the key set at low volume amplification and three cells connected for high volume output. Battery connections may be rearranged so that only one cell is connected for the low volume setting and three cells for high volume, if lower amplifier gain in the normal key setting is desired. Where the full gain obtained by three cells is not required only two cells may be provided and arranged so that one cell is connected in the low volume setting and two cells in the high volume setting. In any case the sum of batteries "L" and "H" shall not exceed 4.5 volts.

1.05 The connections require three wires or a three-conductor cord between the 6030A key and the station set and an extra terminal in the set. If a spare terminal is not available in the set a D-161488 connector may be used. This terminal when wired and covered with the tubing provided with the connector (or taped if tubing is not available) can be stowed away in most any set. Other screw terminals which may be readily added to a set may also be used.

1.06 Where connecting block termination of set cords, etc., are desired a 44 or equivalent type connecting block arranged similarly to that shown in Fig. 5 may also be provided.

1.07 Stations arranged for operator's telephone sets have varistors connected in the receiver circuit. At such stations connections for the varistor should be made in accordance with information given in the section covering varistor connections as it may be necessary to modify existing connections to prevent amplifier battery voltage from being applied to the varistor.



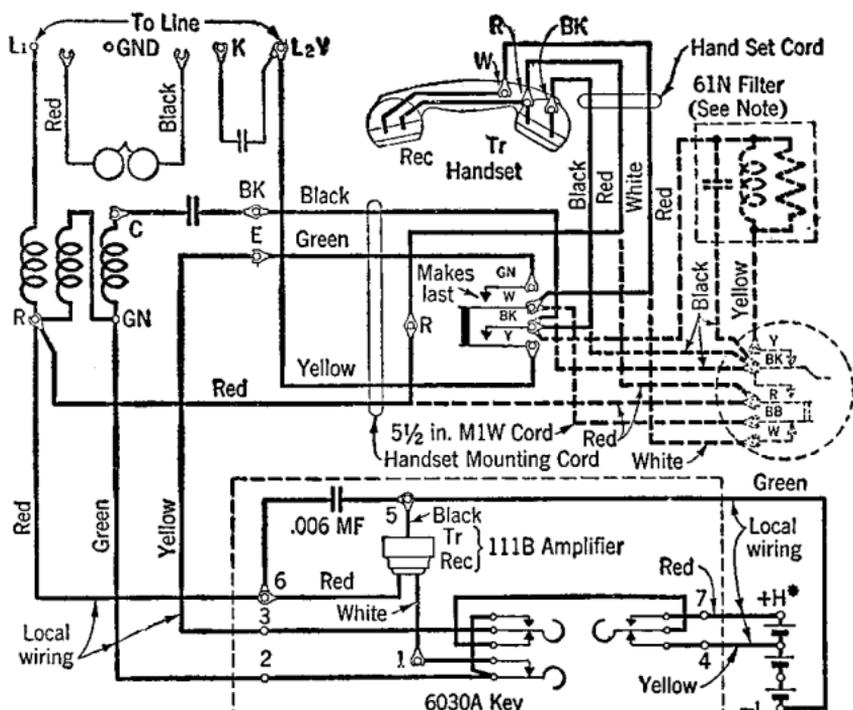
*The sum of Batteries "L" and "H" shall not exceed 4.5 volts (See Paragraph 1.04).

**Terminal E or Connector D161488.

Note: - If filter is not provided connect Brown-Yellow lead from switchhook to Y of dial instead of to filter bracket terminal.

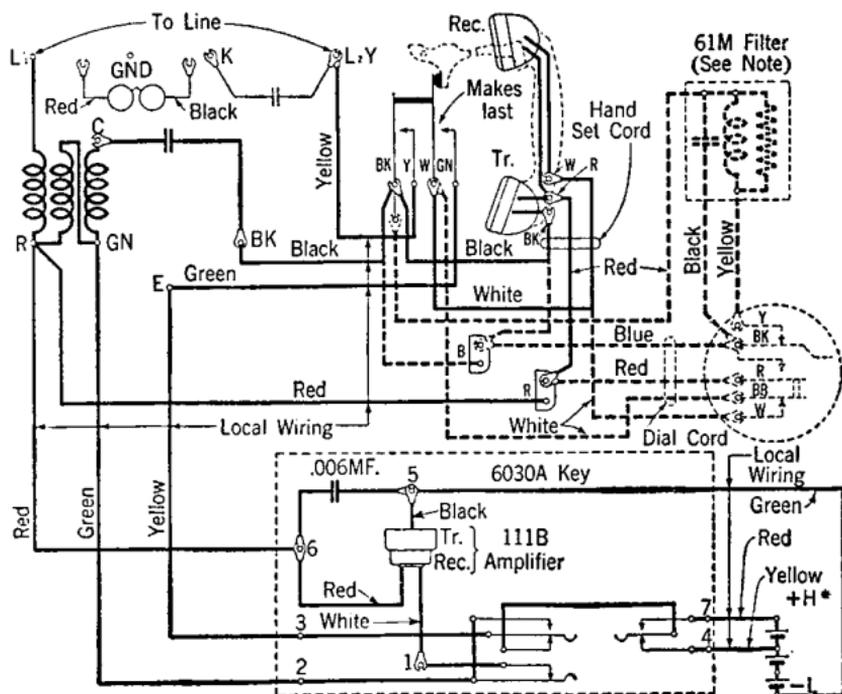
Fig. 1—6030A Key and 653CE Subscriber Set (Rewired)

6030A KEY
CONNECTIONS—
COMMON
BATTERY



* The sums of Batteries "L" and "H" shall not exceed 4.5 volts (See Paragraph 1.04)
 Note - If filter is not provided connect BK of mounting contacts to Y of dial with 5 1/2 in. M1W cord.

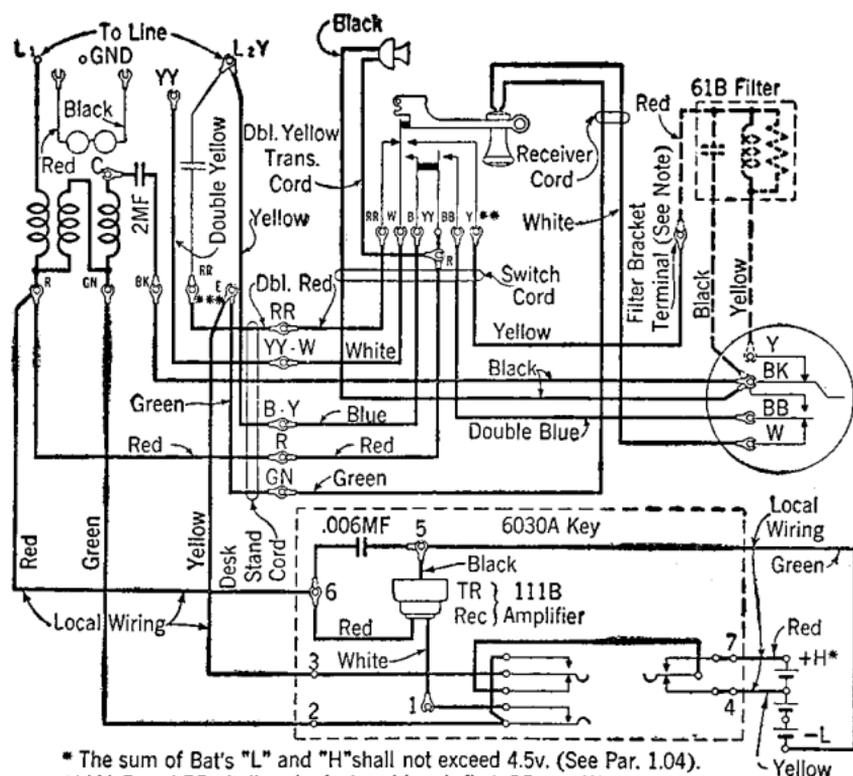
Fig. 2—6030A Key and 202 Type Anti-Sidetone Hand Telephone Set



*The sum of Bat's "L" and "H" shall not exceed 4.5 volts (See Par. 1.04).

Note: If filter is omitted, connect Y of dial to BK mounting contact with 5½ inch M1W cord.

Fig. 3—6030A Key and 211 Type Anti-Sidetone Hand Telephone Set



* The sum of Bat's "L" and "H" shall not exceed 4.5v. (See Par. 1.04).

**YY-R and BB shall make fast and break first; RR and W shall break before W and Y makes.

***Terminal E or Connector D-161488.

Note: If filter is omitted connect yellow lead from switch hook to Y of dial instead of to filter bracket terminal.

Fig. 4—6030A Key and 151C Desk Stand

