

## 10-BUTTON, PUSHBUTTON DIAL, DESK TELEPHONES

### CIRCUIT LABELS

**1. GENERAL**

**1.01** This document covers the 10-button, pushbutton dial, desk telephones. (See Figure 1.) Circuit labels for 10-button, pushbutton dial, desk telephones are included. (See Table A.)



AW 86-346

**Figure 1: 10-Button, Pushbutton Dial, Desk Telephone**

**1.02** This section is reissued to provide the latest issue of circuit labels for the following 10-button, pushbutton dial, desk telephones:

- (a) Model 2830, Types 42 and 46
- (b) Model 2830, Type 76

**1.03** For additional information on description and installation of the telephones, refer to Section 50-830-103. A replacement parts list and an exploded-view drawing for the telephones are contained in Section 50-830-104. Related documents of the ITT Telephone Apparatus Practices Manual provide information on components.

**1.04** The Model 2830 desk telephones are identified by a code number stamped in ink on the bottom of the base plate. Refer to Section 50-830-103 of the ITT Telephone Apparatus Practices Manual for ordering information and for an explanation of each code number.

**1.05** The Model 2830 desk telephones are 10-button, pushbutton dial, anti-sidetone type units that operate efficiently over a wide range of loop resistances and line impedances. These telephones are designed for use with key telephone systems, such as the ITT 1A2 System, where several telephones have access to the same lines, CO trunks, or intercom lines.

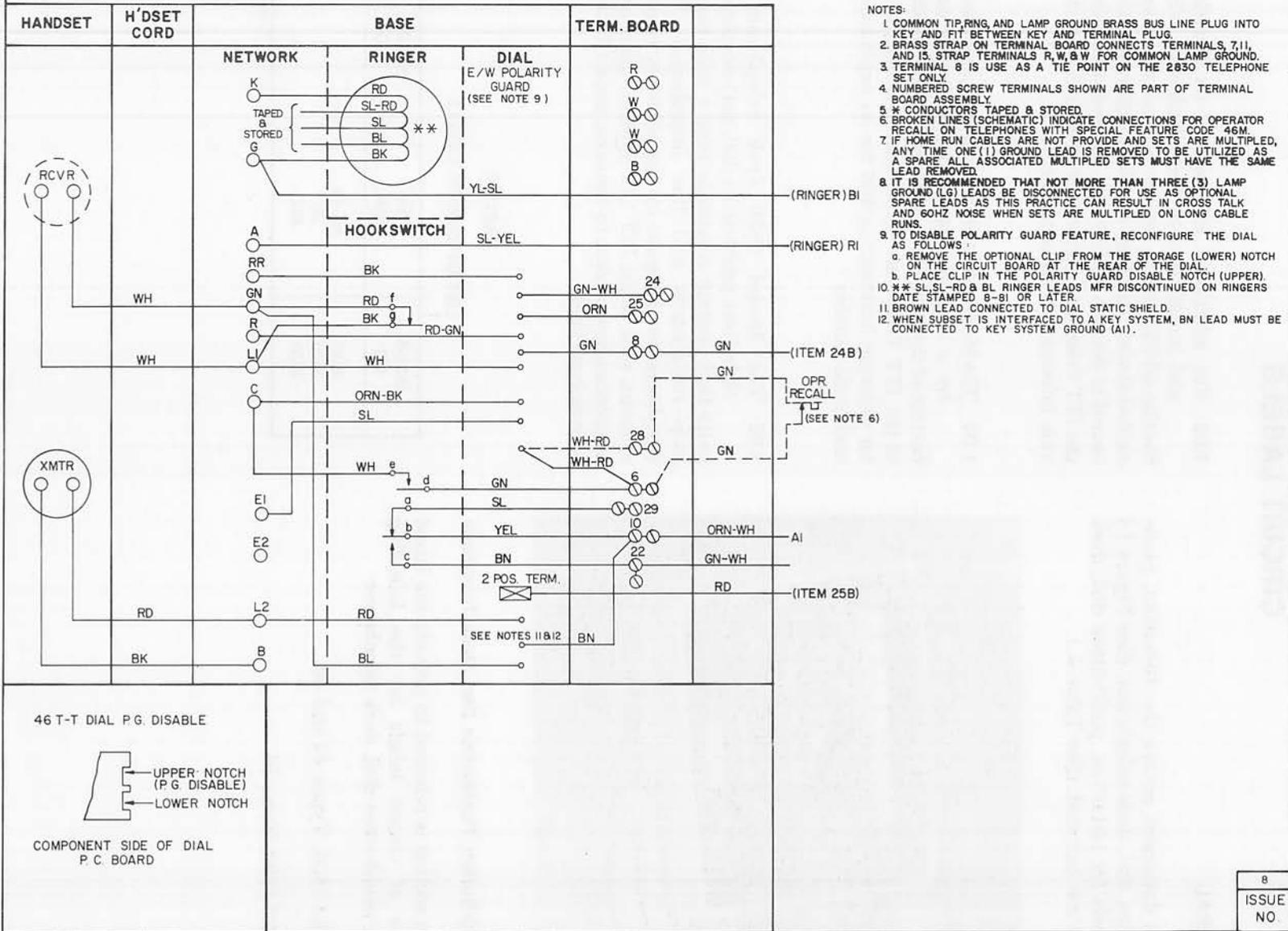
**TABLE A**  
**LIST OF CIRCUIT LABELS**

MODEL NO	TYPE NO	FIGURE NO
2830	42, 46	2
2830	76	3
2830	40T	4

AW 86-365

183157-101

2830 ( ) 42,46 TYPE TELEPHONE CIRCUIT



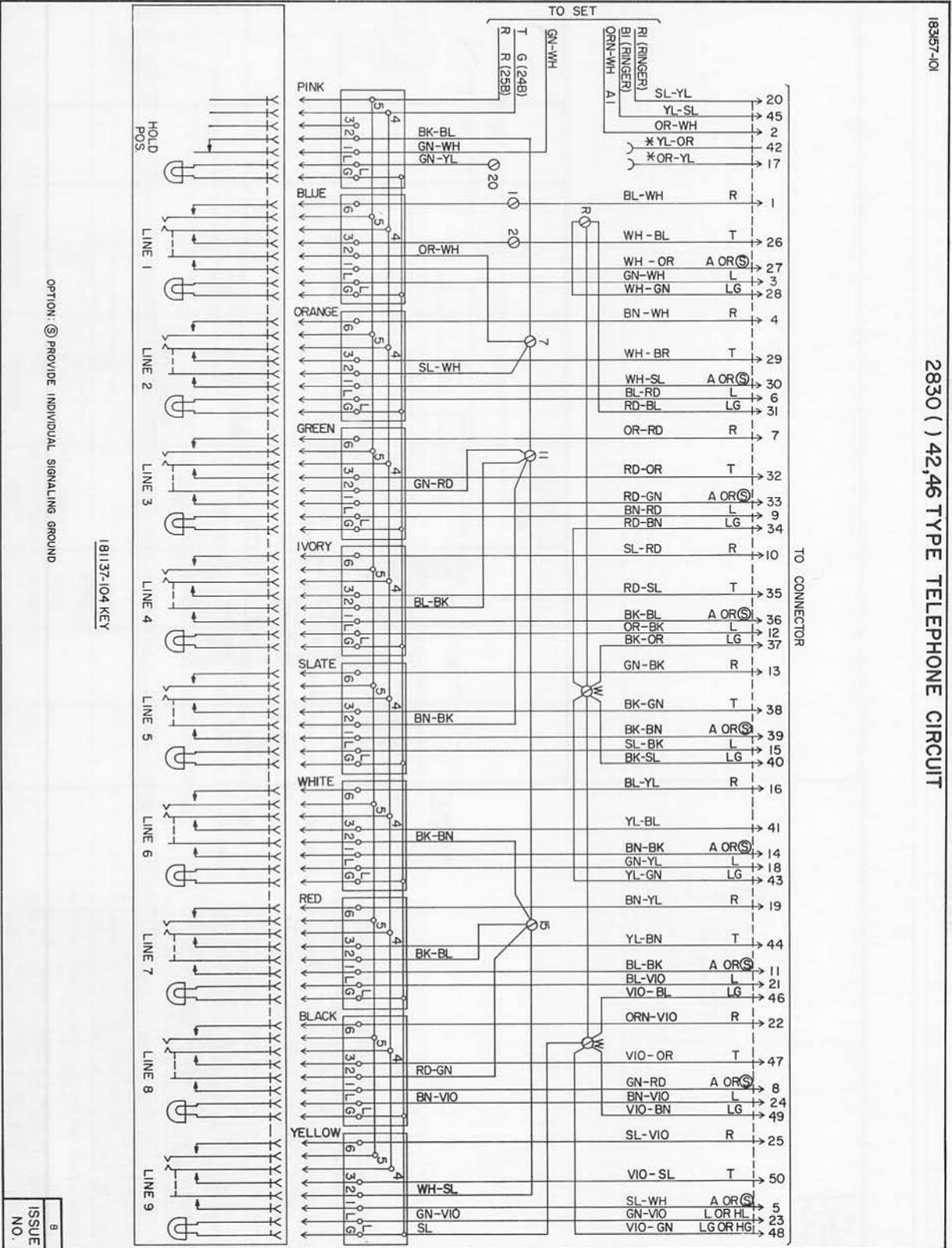
- NOTES:
- COMMON TIP, RING, AND LAMP GROUND BRASS BUS LINE PLUG INTO KEY AND FIT BETWEEN KEY AND TERMINAL PLUG.
  - BRASS STRAP ON TERMINAL BOARD CONNECTS TERMINALS, 7, 11, AND 15. STRAP TERMINALS R, W, & W FOR COMMON LAMP GROUND.
  - TERMINAL 8 IS USED AS A TIE POINT ON THE 2830 TELEPHONE SET ONLY.
  - NUMBERED SCREW TERMINALS SHOWN ARE PART OF TERMINAL BOARD ASSEMBLY.
  - \*\* CONDUCTORS TAPED & STORED.
  - BROKEN LINES (SCHEMATIC) INDICATE CONNECTIONS FOR OPERATOR RECALL ON TELEPHONES WITH SPECIAL FEATURE CODE 46M.
  - IF HOME RUN CABLES ARE NOT PROVIDED AND SETS ARE MULTIPLIED, ANY TIME ONE (1) GROUND LEAD IS REMOVED TO BE UTILIZED AS A SPARE ALL ASSOCIATED MULTIPLIED SETS MUST HAVE THE SAME LEAD REMOVED.
  - IT IS RECOMMENDED THAT NOT MORE THAN THREE (3) LAMP GROUND (LG) LEADS BE DISCONNECTED FOR USE AS OPTIONAL SPARE LEADS AS THIS PRACTICE CAN RESULT IN CROSS TALK AND 60HZ NOISE WHEN SETS ARE MULTIPLIED ON LONG CABLE RUNS.
  - TO DISABLE POLARITY GUARD FEATURE, RECONFIGURE THE DIAL AS FOLLOWS:
    - REMOVE THE OPTIONAL CLIP FROM THE STORAGE (LOWER) NOTCH ON THE CIRCUIT BOARD AT THE REAR OF THE DIAL.
    - PLACE CLIP IN THE POLARITY GUARD DISABLE NOTCH (UPPER).
  - \*\* SL, SL-RD & BL RINGER LEADS MFR DISCONTINUED ON RINGERS DATE STAMPED 8-81 OR LATER.
  - BROWN LEAD CONNECTED TO DIAL STATIC SHIELD.
  - WHEN SUBSET IS INTERFACED TO A KEY SYSTEM, BN LEAD MUST BE CONNECTED TO KEY SYSTEM GROUND (AI).

8  
ISSUE NO.

Figure 2: Circuit Label, Model 2830 Types 42, 46 (Sheet 1 of 2)

18347-101

2830 ( ) 42,46 TYPE TELEPHONE CIRCUIT

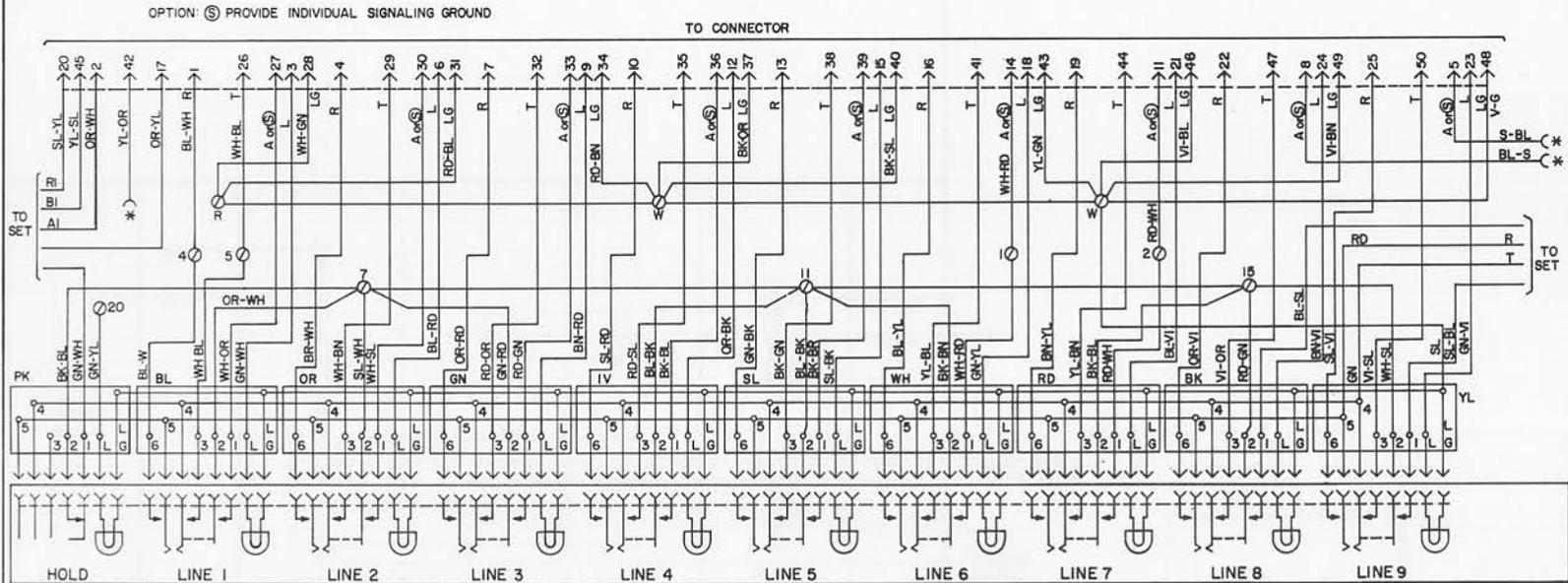


ISSUE NO. 8

Figure 2: Circuit Label, Model 2830 Types 42, 46 (Sheet 2 of 2)



### 2830\*\*\*(BA/LR) 76M TYPE TELEPHONE CIRCUIT



9  
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Figure 3: Circuit Label, Model 2830 Type 76 (Sheet 2 of 2)

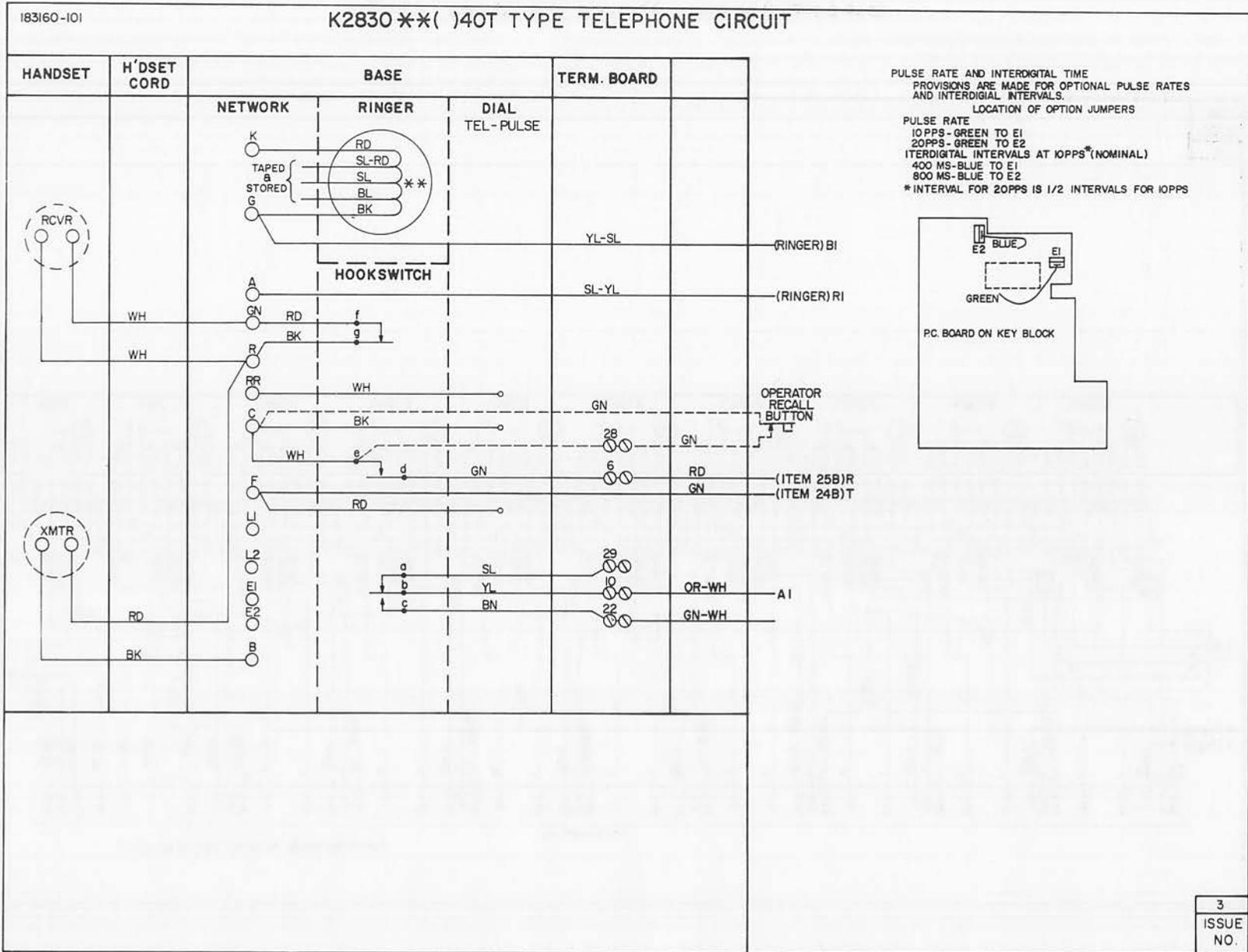
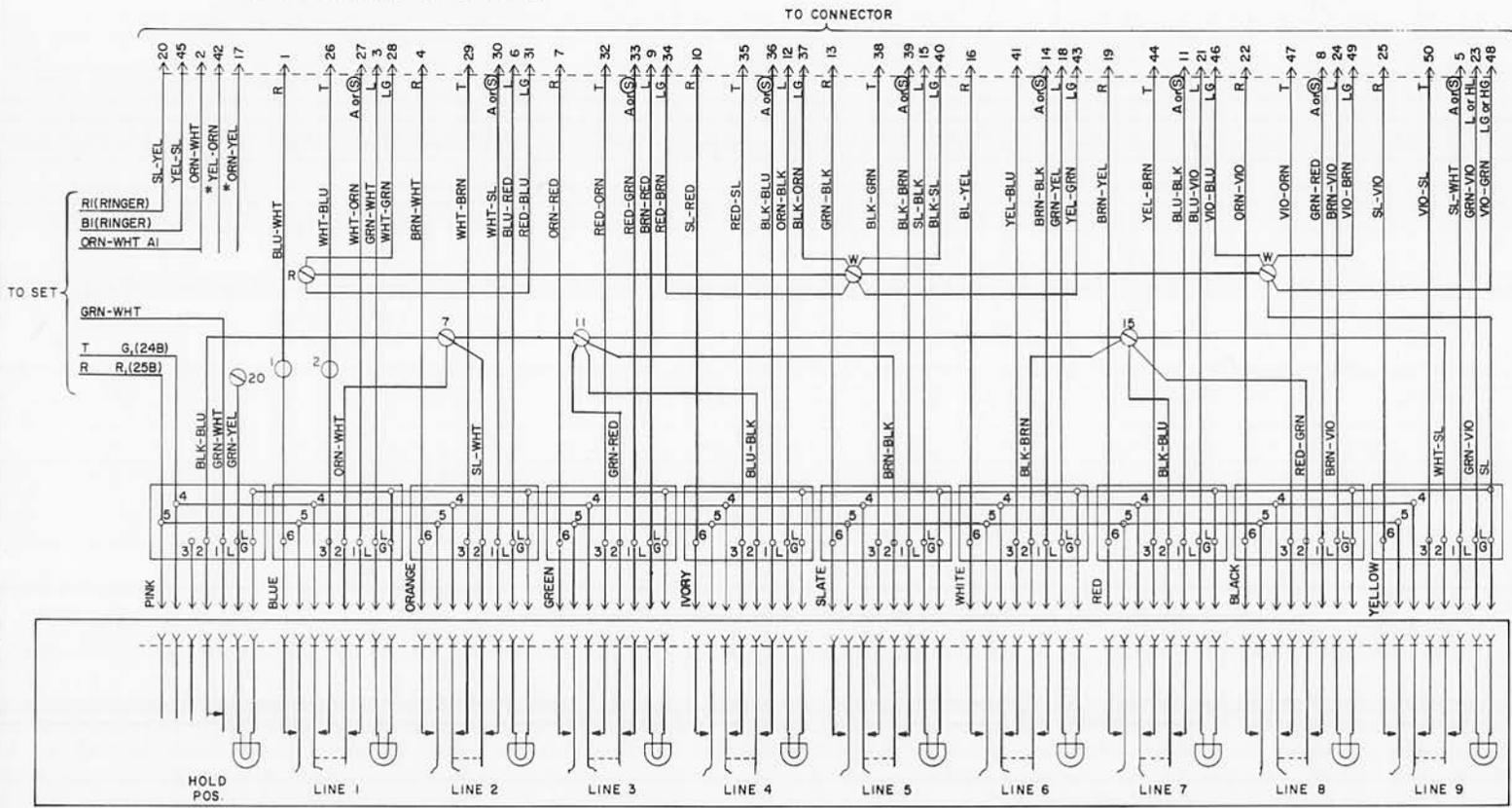


Figure 4: Circuit Label, Model 2830 Type 40T (Sheet 1 of 2)

### 2830\*\* ( )40T TYPE TELEPHONE CIRCUIT

**NOTES:**

1. COMMON TIP, RING, AND LAMP GROUND BRASS BUS LINE PLUG INTO KEY AND FIT BETWEEN KEY AND TERMINAL PLUG.
2. BRASS STRAP ON TERMINAL BOARD CONNECTS TERMINALS 7, 11, AND 15. STRAP TERMINALS R, W, & B W FOR COMMON LAMP GROUND.
3. TERMINAL 8 IS USED AS A TIE POINT ON THE 2830 TELEPHONE SET ONLY.
4. NUMBERED SCREW TERMINALS SHOWN ARE PART OF TERMINAL BOARD ASSEMBLY.
- \*5. CONDUCTORS TAPED & STORED.
6. IF HOME RUN CABLES ARE NOT PROVIDED AND SET ARE MULTIPLIED, ANY TIME ONE (1) GROUND LEAD IS REMOVED TO BE UTILIZED AS A SPARE ALL ASSOCIATED MULTIPLIED SET MUST HAVE THE SAME LEAD REMOVED.
7. IT IS RECOMMENDED THAT NOT MORE THAN THREE (3) LAMP GROUND (LG) LEADS BE DISCONNECTED FOR USE AS OPTIONAL SPARE LEAD AS THIS PRACTICE CAN RESULT IN CROSS TALK AND 60HZ NOISE WHEN SETS ARE MULTIPLIED ON LONG CABLE RUNS.
- \*\*8. SL, SL-RD & BL RINGER LEADS MANUFACTURE DISCONTINUED ON RINGERS DATE STAMPED 8-81 OR LATER.



OPTION: (S) PROVIDE INDIVIDUAL SIGNALING GROUND

3  
ISSUE  
NO.

Figure 4: Circuit Label, Model 2830 Type 40T (Sheet 2 of 2)