

Comdial Corporation Business Communications Division

February 2, 1984

Subject: Comdial Wiring Diagrams

Comdial is proud to announce the availability of our new Wiring Diagrams Manual IMI 10-001. This manual contains wiring diagrams of telephones manufactured under the Stromberg-Carlson and Stromberg brand name up to December 1982.

A complimentary copy of this manual is enclosed along with other recently released information on Comdial products. This information includes:

|            |                                     |
|------------|-------------------------------------|
| GCA 36-004 | Repair Parts, Maxcom Series         |
| CSL 134    | Data Sheet, 2564/2565 Telephone     |
| CSL 153    | End User Sheet, 2564/2565 Telephone |
| CSL 128    | Data Sheet, Voice Express           |
| CSL 119    | End User Sheet, Voice Express       |
| CSL 126    | Data Sheet, Maxplus Series          |
| CSL 143    | End User Sheet, Maxplus Series      |

We also have available the following information on Comdial products:

IMI 10-002 - Contains wiring diagrams of telephones manufactured after December, 1982 and will be re-issued from time to time to include new models.

GCA 36-003 - Contains piece parts breakdown for telephones listed in the IMI 10-001 wiring diagrams manual.

This and other Comdial literature may be requested by calling us at 800-446-7661 (804-978-2288 in Virginia).

We hope your business is successful in 1984 and that you will allow Comdial to participate in that success with you.

Sincerely,

  
Geoffrey A. McCarron  
Vice President, Marketing

Enclosures

# COMDIAL

Business Communications Division

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## Single and Multiline Telephones and Components

(Manufactured Through 1982  
By Stromberg-Carlson Corporation)



Wiring Diagrams  
IMI 10-001  
December, 1983

## PUBLICATION INDEX

| <u>SUBJECT</u>                          | <u>PAGE NO.</u> |
|-----------------------------------------|-----------------|
| Introduction.....                       | 1               |
| General Information.....                | 1               |
| Contents Organization.....              | 2               |
| Using The General Drawing Index.....    | 2               |
| Using The Matrix Indexes.....           | 2               |
| General Drawing Index.....              | 3               |
| Drawing Index, Image I Telephones.....  | 5               |
| Drawing Index, Image II Telephones..... | 7               |

## INTRODUCTION

The purpose of this publication is to present wiring diagrams for field service use. Covered herein is the Slenderet, Miniwall, 500 and 2500 Series, Image I, and Image II models of telephones currently being produced by Comdial Business Communications Division (formerly Stromberg-Carlson Corporation).

Additional technical literature and in depth service support are available by calling (800) 446-7661, or in Virginia: (804) 978-2288.

## GENERAL INFORMATION

The equipment covered in this publication is cataloged in three indexes. These are: The General Drawing Index, The Image I Telephone Drawing Index, and the Image II Telephone Drawing Index. The General Drawing Index references wiring diagrams for telephone accessories and all above listed telephones except the Image I and II models. The latter two indexes are special matrix indexes which detail the Image I and Image II telephone wiring diagrams.

## CONTENTS ORGANIZATION

## USING THE GENERAL DRAWING INDEX

The left column of the General Drawing Index lists the equipment by model number and/or by name in an ascending alpha-numeric sequence. The right column lists the drawing number assigned to the wiring diagram of that model of equipment. Locate the desired model in the left column and follow the line to the right column to find the drawing number of the wiring diagram.

## NOTE

Wiring diagrams are placed together at the back of this book. They are placed there in an ascending numerical order based on the drawing number assigned to them.

The pages containing the numbered drawings are preceded by several pages containing special purpose drawings. these drawings have been assigned figure numbers (Figure 1 through Figure 11).

## USING THE MATRIX DRAWING INDEXES

The similarity of many of the wiring diagrams associated with the Image I and II telephones makes a particular drawing applicable to more than one model of the Image telephone. Use the special matrix indexes in the following manner to locate the wiring diagrams of the telephone being serviced:

1. In the chart, locate the verbal description which describes the telephone in question.
2. Note the drawing number referenced in the chart.
3. Follow any directive arrows leading from the located equipment description to any additional information. Note the drawing numbers or figure numbers found there as well.
4. Refer to the actual drawings noted in Steps 2 and 3. These are the wiring diagrams or special purpose figures applicable to the model and configuration in question. The following note explains how to locate the actual drawings and figures found in the back of this publication.

## NOTE

Wiring diagrams are placed together at the back of this book. They are placed there in an ascending numerical order based on the drawing number assigned to them.

The pages containing the numbered drawings are preceded by several pages containing special purpose drawings. these drawings have been assigned figure numbers (Figure 1 through Figure 11).

## GENERAL DRAWING INDEX

| <u>SUBJECT</u><br><u>TELEPHONE MODEL NO.</u> | <u>DRAWING</u><br><u>NUMBER</u> |
|----------------------------------------------|---------------------------------|
| CENTURYPHONE.....                            | 703507-000, Page 1              |
| CENTURYPHONE WITH SPEAKERPHONE CONN.....     | 703508-839, Page 1              |
| CENTURYPHONE WITH HANDSFREE OPTION.....      | 703508-000, Page 1              |
| G 2842.....                                  | 703201-540, Pages 1,2           |
| G 2843.....                                  | 703201-550, Pages 1,2           |
| G 2844.....                                  | 703201-500, Page 1              |
| HRA 500B CONNECTIONS.....                    | 703030-066, Page 1              |
| IMAGE I TELEPHONES.....                      | See Text Page 5                 |
| IMAGE II TELEPHONES.....                     | See Text Page 7                 |
| POLARITY GUARD.....                          | 300980-291, Page 1              |
| PRIVACY MODULE.....                          | CS705961, Page 1                |
| R 2507Y.....                                 | 703801-112, Page 1              |
| STATIC SHIELD CONNECTIONS.....               | 703800-000, Page 1              |
| 220A QM SLENDERET.....                       | 703140-200, Page 1              |
| 220A SLENDERET.....                          | 703088-000, Page 1              |
| 500 MANUAL (NO DIAL).....                    | 703010-616, Page 1              |
| 500 "A" LEAD CONTROL.....                    | 703100-000, Pages 1,2           |
| 500D.....                                    | 703033-182, Page 1              |
| 500F.....                                    | 720210-000, Page 1              |
| 500R,S.....                                  | 703069-400, Page 1              |
| 500R,S WITH SPEAKERPHONE CORD.....           | 703053-900, Page 1              |
| 500Y.....                                    | 720110-000, Page 1              |
| 501D.....                                    | 200843-100, Page 1              |
| 502B.....                                    | 720310-000, Page 1              |
| 508B.....                                    | 720410-000, Page 1              |
| 510B.....                                    | 206073-100, Page 1              |
| 550B.....                                    | 720610-000, Page 1              |
| 551B.....                                    | 720410-000, Page 1              |
| 552B.....                                    | 720310-000, Page 1              |
| 553B.....                                    | 206073-100, Page 1              |
| 554 MANUAL (NO DIAL).....                    | 703010-616, Page 1              |
| 554B "A" LEAD CONTROL.....                   | 703100-000, Pages 1,2           |
| 554B.....                                    | 703033-182, Page 1              |
| 554 BTD.....                                 | 720070-000, Pages 1,2           |
| 554F.....                                    | 720210-000, Page 1              |
| 554Y.....                                    | 720110-000, Page 1              |
| 575B.....                                    | 720610-000, Page 1              |
| 842.....                                     | 703087-500, Pages 1,3           |
| 843.....                                     | 703087-700, Pages 1,3           |
| 844.....                                     | 703087-300, Pages 1             |
| 1650B.....                                   | 722610-000, Page 1              |
| 1651B.....                                   | 722410-000, Page 1              |
| 1652B.....                                   | 703013-393, Pages 1,2           |
| 1653B.....                                   | 703013-394, Page 1              |

Continued

## GENERAL DRAWING INDEX-Continued

| <u>SUBJECT</u><br><u>TELEPHONE MODEL NO.</u> | <u>DRAWING</u><br><u>NUMBER</u> |              |
|----------------------------------------------|---------------------------------|--------------|
| 1654B.....                                   | 722010-000,                     | Page 1       |
| 1654B A-LEAD.....                            | 703014-373,                     | Page 1       |
| 1654F.....                                   | 722210-000,                     | Page 1       |
| 1654Y.....                                   | 722110-000,                     | Page 1       |
| 1656B.....                                   | 703013-387,                     | Page 1,2     |
| 2220B QM SLENDERET.....                      | 703140-100,                     | Page 1       |
| 2220B SLENDERET.....                         | 703088-100,                     | Page 1       |
| 2220M MANUAL SLENDERET (NO DIAL).....        | 703020-198,                     | Page 1       |
| 2500D.....                                   | 720070-000,                     | Pages 1,2    |
| 2500D MANUAL (NO DIAL).....                  | 703010-616,                     | Page 1       |
| 2500F.....                                   | 720270-000,                     | Pages 1,2    |
| 2500S.....                                   | 703800-900,                     | Pages 1,2    |
| 2500S WITH SPEAKERPHONE CORD.....            | 703053-800,                     | Pages 1,2    |
| 2500Y.....                                   | 720170-000,                     | Pages 1,2    |
| 2500Y1.....                                  | 720800-000,                     | Page 1       |
| 2501D.....                                   | 703033-183,                     | Page 1       |
| 2502B.....                                   | 720370-000,                     | Pages 1,2    |
| 2507A.....                                   | 703802-200,                     | Page 1       |
| 2507SY.....                                  | 703811-000,                     | Page 1       |
| 2507Y.....                                   | 703802-000,                     | Page 1       |
| 2508B.....                                   | 720470-000,                     | Pages 1,2    |
| 2508B.....                                   | 703033-183,                     | Page 1       |
| 2510F.....                                   | 720570-000,                     | Pages 1,2    |
| 2550B.....                                   | 722670-000,                     | Pages 1,2    |
| 2551B.....                                   | 722470-000,                     | Pages 1,2    |
| 2551B.....                                   | 703014-548,                     | Page 1       |
| 2552B.....                                   | 722370-000,                     | Pages 1,2    |
| 2553B.....                                   | 722570-000,                     | Pages 1,2    |
| 2554B.....                                   | 722070-000,                     | Pages 1,2    |
| 2554F.....                                   | 722270-000,                     | Pages 1,2    |
| 2554Y.....                                   | 722170-000,                     | Pages 1,2    |
| 2556.....                                    | 703014-548,                     | Page 1       |
| 2575B.....                                   | 720670-000,                     | Pages 1,2    |
| 2802-5A1.....                                | 703081-400,                     | Page 1       |
| 2802-5B5.....                                | 703066-800,                     | Pages 1-4    |
| 2842.....                                    | 703087-500,                     | Pages 2,2A,3 |
| 2843.....                                    | 703087-700,                     | Pages 2,2B,3 |
| 2844.....                                    | 703087-300,                     | Pages 2,2A   |
| 6220B-6AD2.....                              | 703021-321,                     | Page 1       |
| 6350-11 KEY BOX.....                         | 703071-000,                     | Pages 1,2    |
| 6350-3 KEY BOX.....                          | 703068-200,                     | Page 1       |
| 6350-5 KEY BOX.....                          | 703067-200,                     | Page 1       |
| 6350-9 KEY BOX.....                          | 703067-000,                     | Pages 1,2    |
| 6500D.....                                   | 720091-100,                     | Page 1       |

**MATRIX DRAWING INDEX  
(IMAGE I TELEPHONES)**

MODELS 1800/2800, 5-LINE CONFIGURATION

| Rotary Dial            |                    |
|------------------------|--------------------|
| Desk                   | 703504-051, Page 1 |
| Desk with Headset Jack | 703070-700, Page 2 |
| Wall                   | 703070-000, Page 1 |

| Tone Dial                   |                    |
|-----------------------------|--------------------|
| Desk/ Old* Dial             | Figure 8           |
| Desk/ 35A11 Dial            | Figure 9           |
| Desk/ 35C15 Dial            | 703504-051, Page 2 |
| Desk with Headset Jack      | 703070-800, Page 2 |
| Wall/ Old* Dial             | Figure 8           |
| Wall/ 35C15 Dial            | 703070-000, Page 2 |
| *Manufactured prior to 1981 |                    |

Keystrip  
703504-051  
Page 3

MODELS 1800/2800, 9-LINE CONFIGURATION

|             |                    |
|-------------|--------------------|
| Rotary Dial | 703080-600, Page 1 |
| Tone Dial   | 703080-600, Page 2 |

First Keystrip  
703080-600  
Page 3

Second Keystrip  
703080-600  
Page 4

MODELS 1800/2800, 11-LINE CONFIGURATION

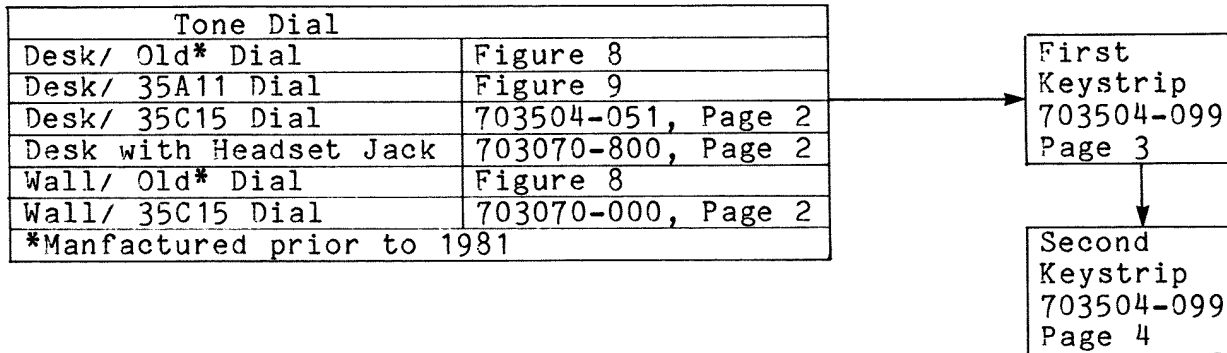
| Rotary Dial            |                    |
|------------------------|--------------------|
| Desk                   | 703504-051, Page 1 |
| Desk with Headset Jack | 703070-700, Page 2 |
| Wall                   | 703070-000, Page 1 |

First Keystrip  
703504-099  
Page 3

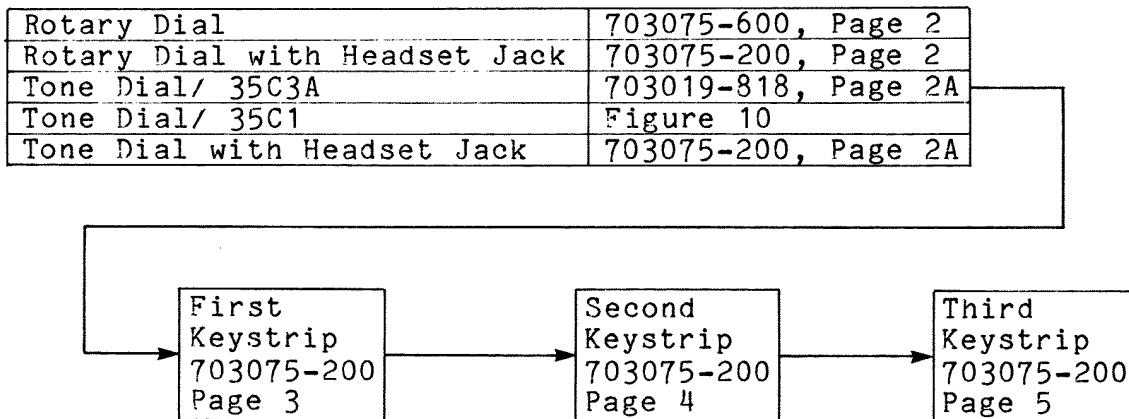
Second Keystrip  
703504-099  
Page 4

Continued

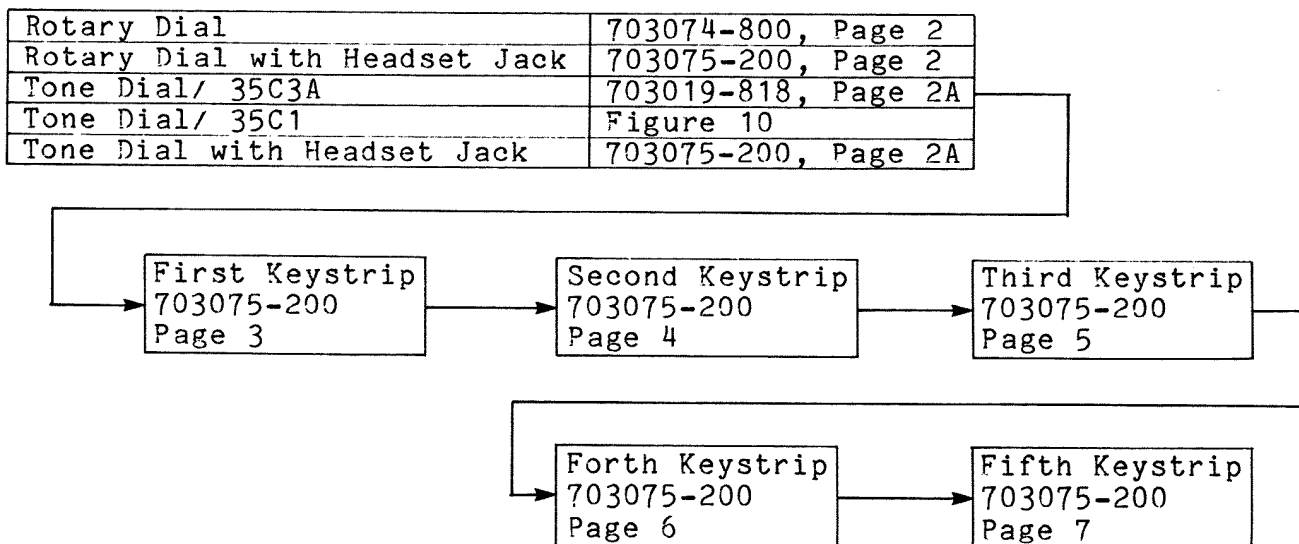
## Image I Matrix Index-Continued

11-Line Configuration-Continued

## MODELS 1800/2800, 17-LINE CONFIGURATION



## MODELS 1800/2800, 29-LINE CONFIGURATION



**MATRIX DRAWING INDEX  
(IMAGE II TELEPHONES)**

5-LINE (6-BUTTON) CONFIGURATION

|                                    |            |  |
|------------------------------------|------------|--|
| Rotary and Tone Dial (w/o) Privacy |            |  |
| Desk 864, 2864-42/46               | 703084-100 |  |
| Wall 851, 2851-42/46               | Pages 1-4  |  |

|                                     |            |  |
|-------------------------------------|------------|--|
| Rotary and Tone Dial (with) Privacy |            |  |
| Desk 864, 2864-76                   | 703089-400 |  |
| Wall 851, 2851-76                   | Pages 1-4  |  |

5-LINE (6-BUTTON) CONFIGURATION WITH TAP BUTTON

|                    |            |  |
|--------------------|------------|--|
| Tone Dial with TAP |            |  |
| Desk 2864-42B      | 724170-000 |  |
| Wall 2851-42B      | Pages 1,2  |  |

9-LINE (10-BUTTON) CONFIGURATION

|                                    |                                                                      |  |
|------------------------------------|----------------------------------------------------------------------|--|
| Rotary and Tone Dial (w/o) Privacy |                                                                      |  |
| Desk 830, 2830-42/46               | 703083-300, Pages 1-4                                                |  |
| Wall 854, 2854-42/46               | For keystrips with individual lamp grounds, also refer to Figure 2A. |  |

|                                     |                                                                      |  |
|-------------------------------------|----------------------------------------------------------------------|--|
| Rotary and Tone Dial (with) Privacy |                                                                      |  |
| Desk 830, 854-76                    | 703089-600, Pages 1-4                                                |  |
| Wall 2830, 2854-76                  | For keystrips with individual lamp grounds, also refer to Figure 2B. |  |

9-LINE (10-BUTTON) CONFIGURATION WITH TAP BUTTON

|                    |            |  |
|--------------------|------------|--|
| Tone Dial with TAP |            |  |
| Desk 2830-42B      | 724370-000 |  |
| Wall 2854-42B      | Pages 1,2  |  |

Continued

## Image II Matrix Index-Continued

## 9-LINE (10-BUTTON) CONFIGURATION WITH BUSY LAMP FIELD (BLF)

|                                        |                                                                                                     |  |                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|--|-----------------------------------|
| Rotary and Tone Dial<br>(w/o) Privacy  |                                                                                                     |  |                                   |
| 835, 2835-46                           | 703083-300, Pages 1-4<br>For keystrips with individual<br>lamp grounds, also refer to<br>Figure 2A. |  |                                   |
| Rotary and Tone Dial<br>(with) Privacy |                                                                                                     |  | Busy<br>Lamp<br>Field<br>Figure 1 |
| 835, 2835-76                           | 703083-000, Pages 1-3<br>For keystrips with individual<br>lamp grounds, also refer to<br>Figure 2B  |  |                                   |
| Tone Dial 35C1                         | Figure 11                                                                                           |  |                                   |

## 19-LINE (20-BUTTON) CONFIGURATION

|                                     |                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------|
| Rotary and Tone Dial (w/o) Privacy  |                                                                                                 |
| Desk 831-42/46<br>2831-42/46        | 703083-700, Pages 1-4<br>For keystrips with individual lamp<br>grounds, also refer to Figure 3. |
| Rotary and Tone Dial (with) Privacy |                                                                                                 |
| Desk 831-76<br>2831-76              | 703089-800, Pages 1-4<br>For keystrips with individual lamp<br>grounds, also refer to Figure 4. |

Continued

## Image II Matrix Index-Continued

19-Line (20-Button) Configuration-Continued

## 19-LINE (20-BUTTON) CONFIGURATION WITH BUSY LAMP FIELD (BLF)

|                                                               |                                                                                                      |  |                                   |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--|-----------------------------------|
| Rotary and Tone Dial<br>(w/o) Privacy and (with) Headset Jack |                                                                                                      |  |                                   |
| Desk 862-56<br>Wall 2862-56                                   | 703201-069 Pages 1-3, 5<br>For keystrips with individual<br>lamp grounds, also refer to<br>Figure 5. |  |                                   |
| Rotary and Tone Dial<br>(with) Privacy and (w/o) Headset Jack |                                                                                                      |  | Busy<br>Lamp<br>Field<br>Figure 1 |
| Desk 862-76<br>2862-76                                        | 703083-100 Pages 1-3<br>For keystrips with individual<br>lamp grounds, also refer to<br>Figure 6.    |  |                                   |
| Tone Dial 35C1                                                | Figure 11                                                                                            |  |                                   |

## 19-LINE (20-BUTTON) CONFIGURATION WITH TAP BUTTON

|                                    |                         |
|------------------------------------|-------------------------|
| Rotary and Tone Dial (w/o) Privacy |                         |
| 2831-42B                           | 724770-000<br>Pages 1,2 |

## 29-LINE (30-BUTTON) CONFIGURATION

|                                          |                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------|
| Rotary and Tone Dial (with) Headset Jack |                                                                                                      |
| 861, 2861-56                             | 703085-200<br>Pages 1-5<br>For keystrips with individual<br>lamp grounds, also refer<br>to Figure 7. |

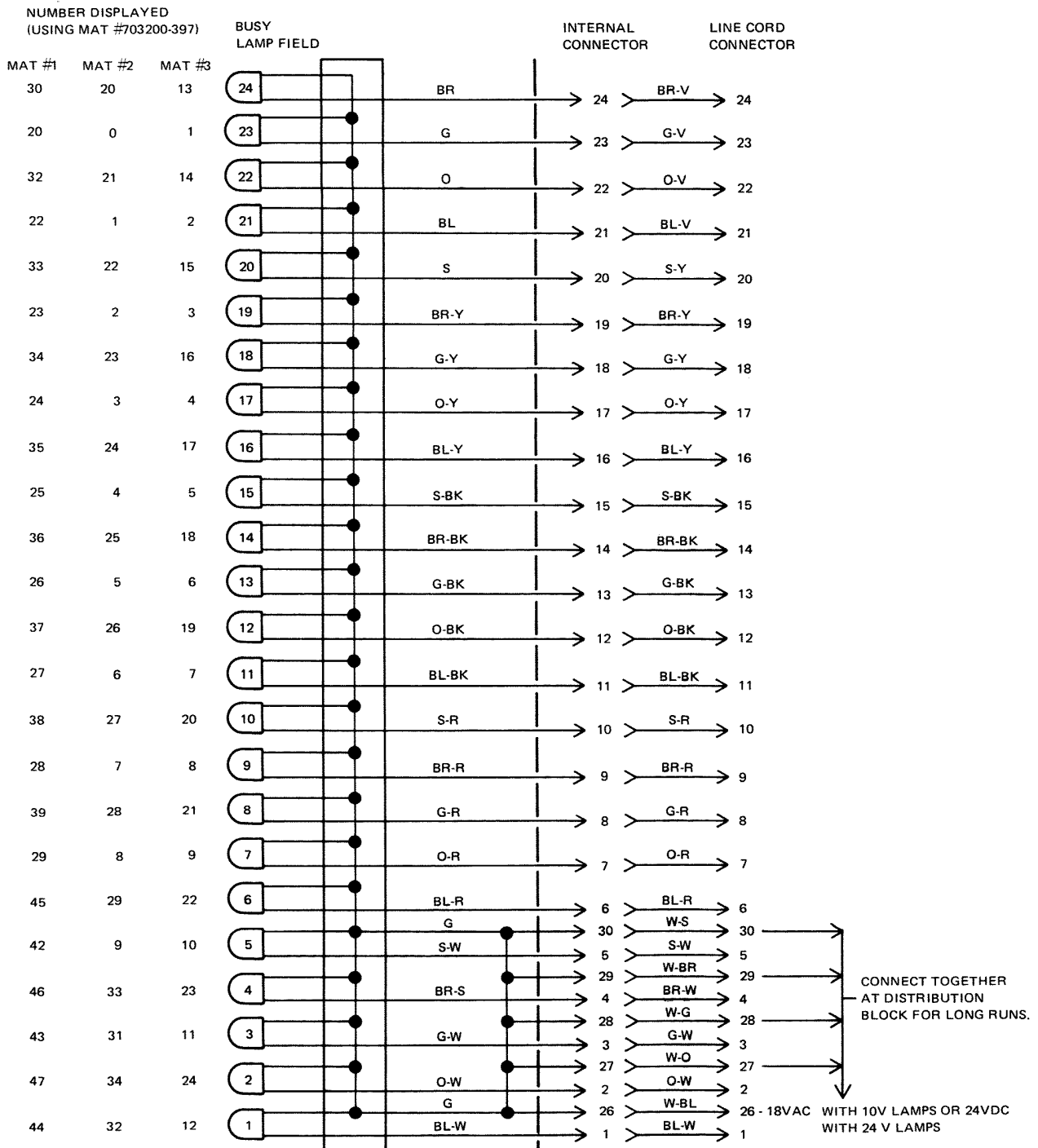
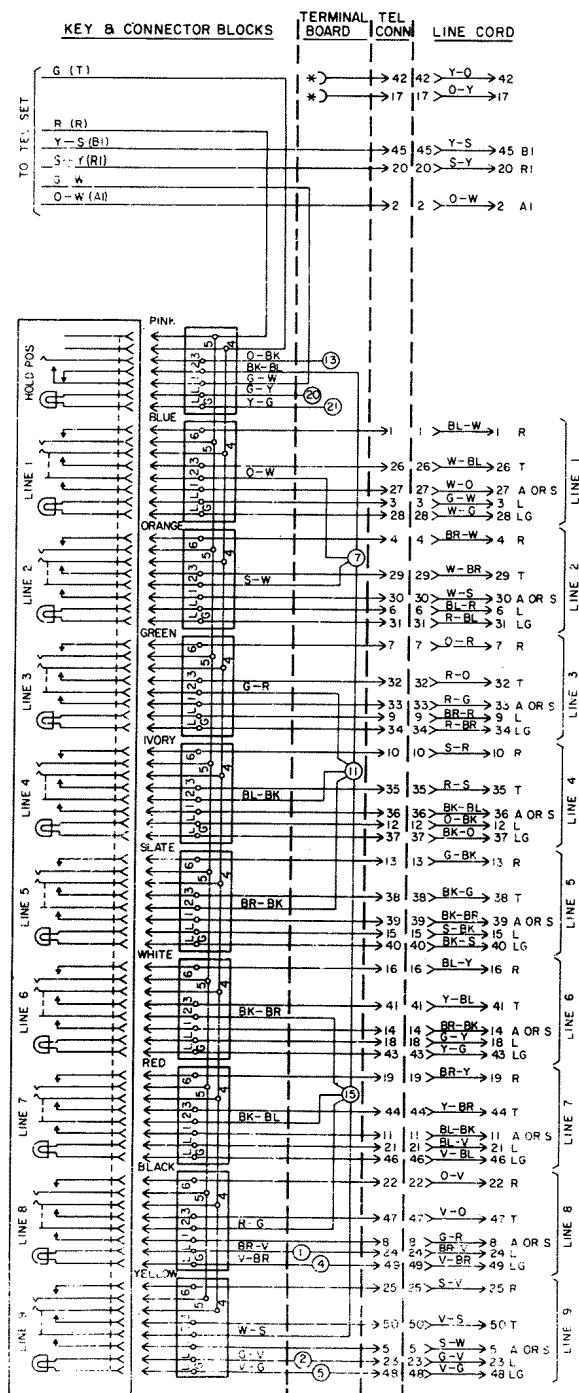
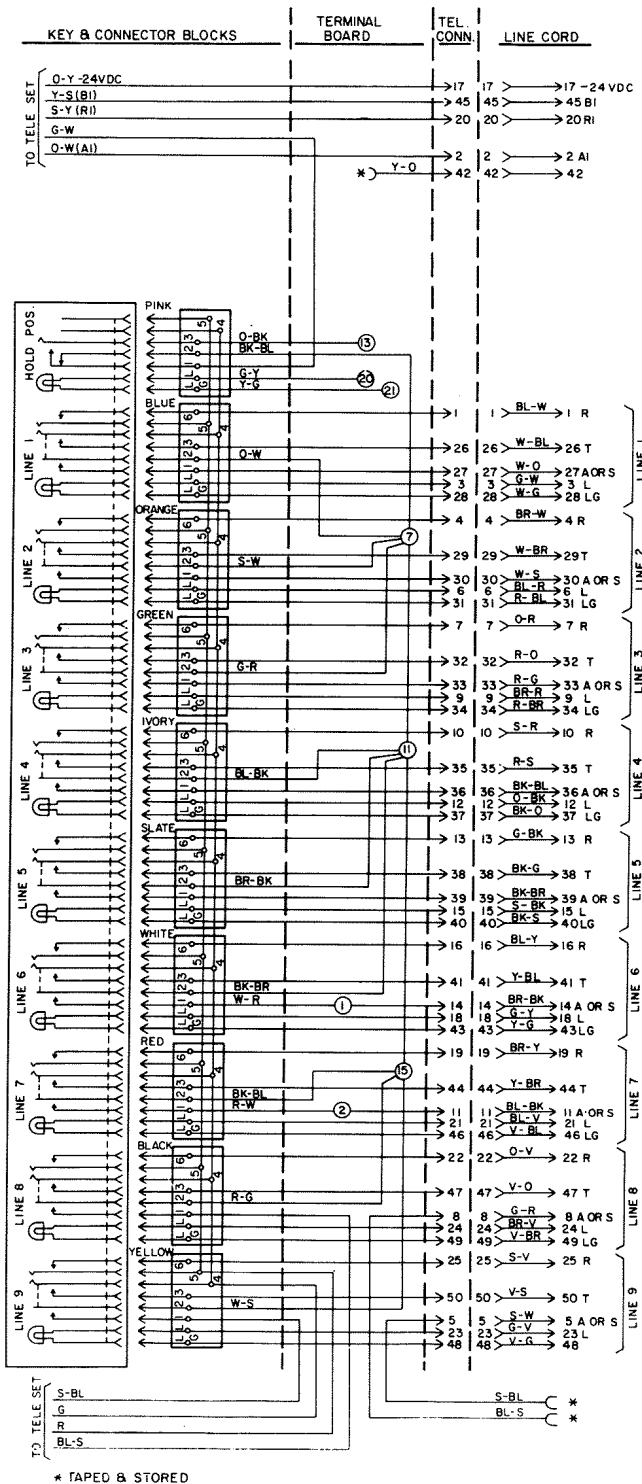


Figure 1. Busy Lamp Field (BLF)

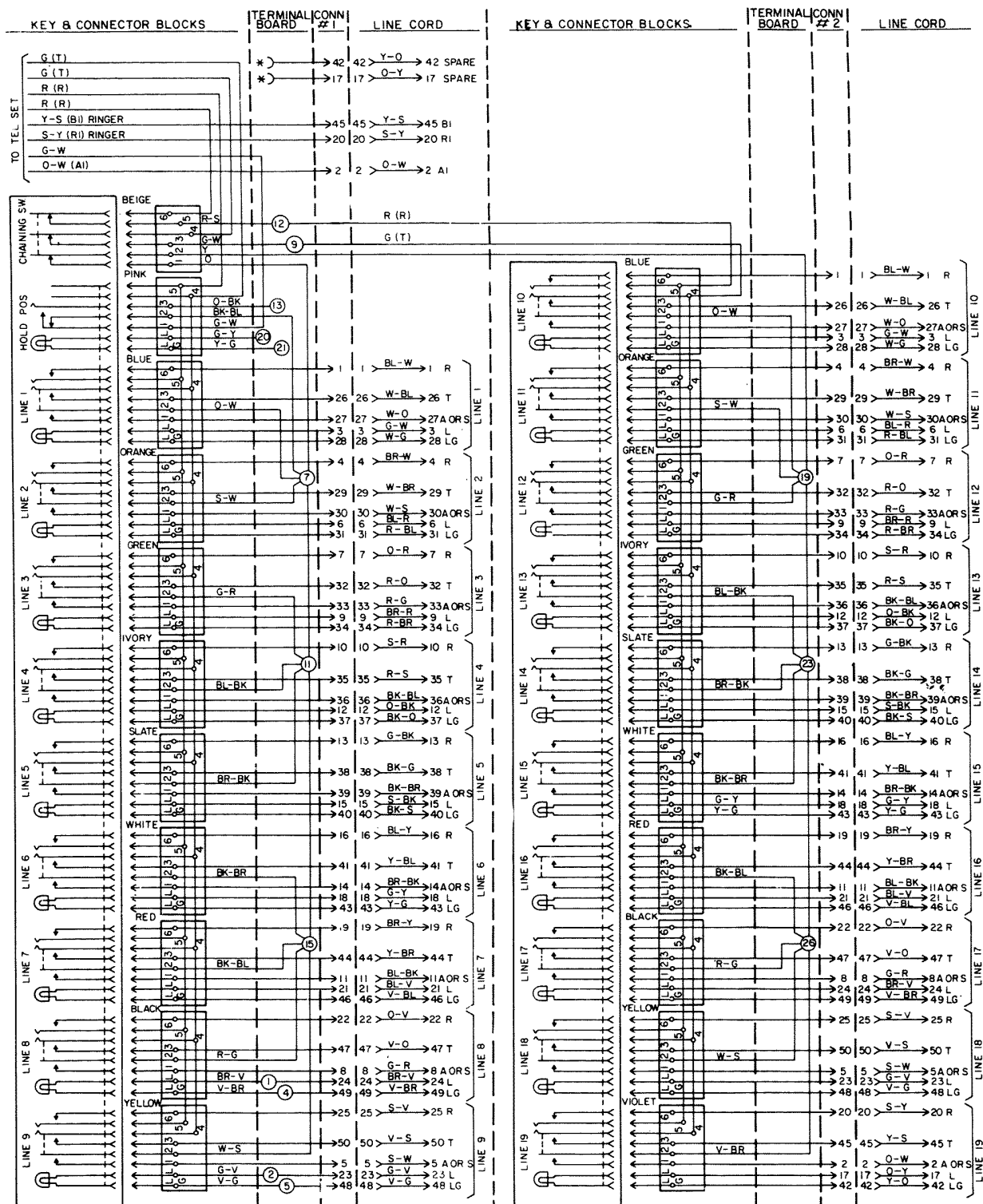


Ⓐ Without Privacy



Ⓑ With Privacy

Figure 2. 10-Button Keystrip with Individual Lamp Grounds



\* TAPED AND STORED

Figure 3. 20-Button Keystrip with Individual Lamp Ground

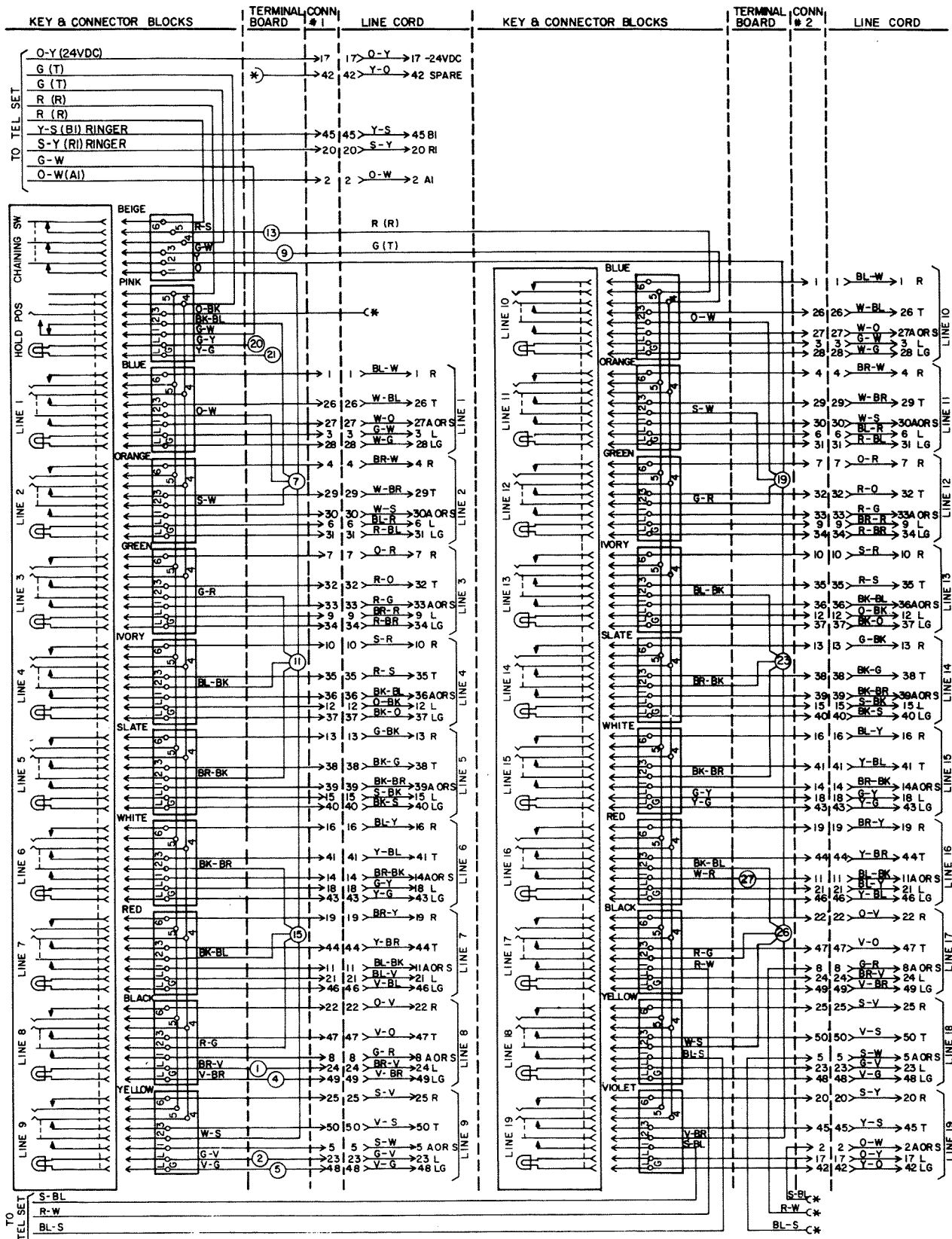
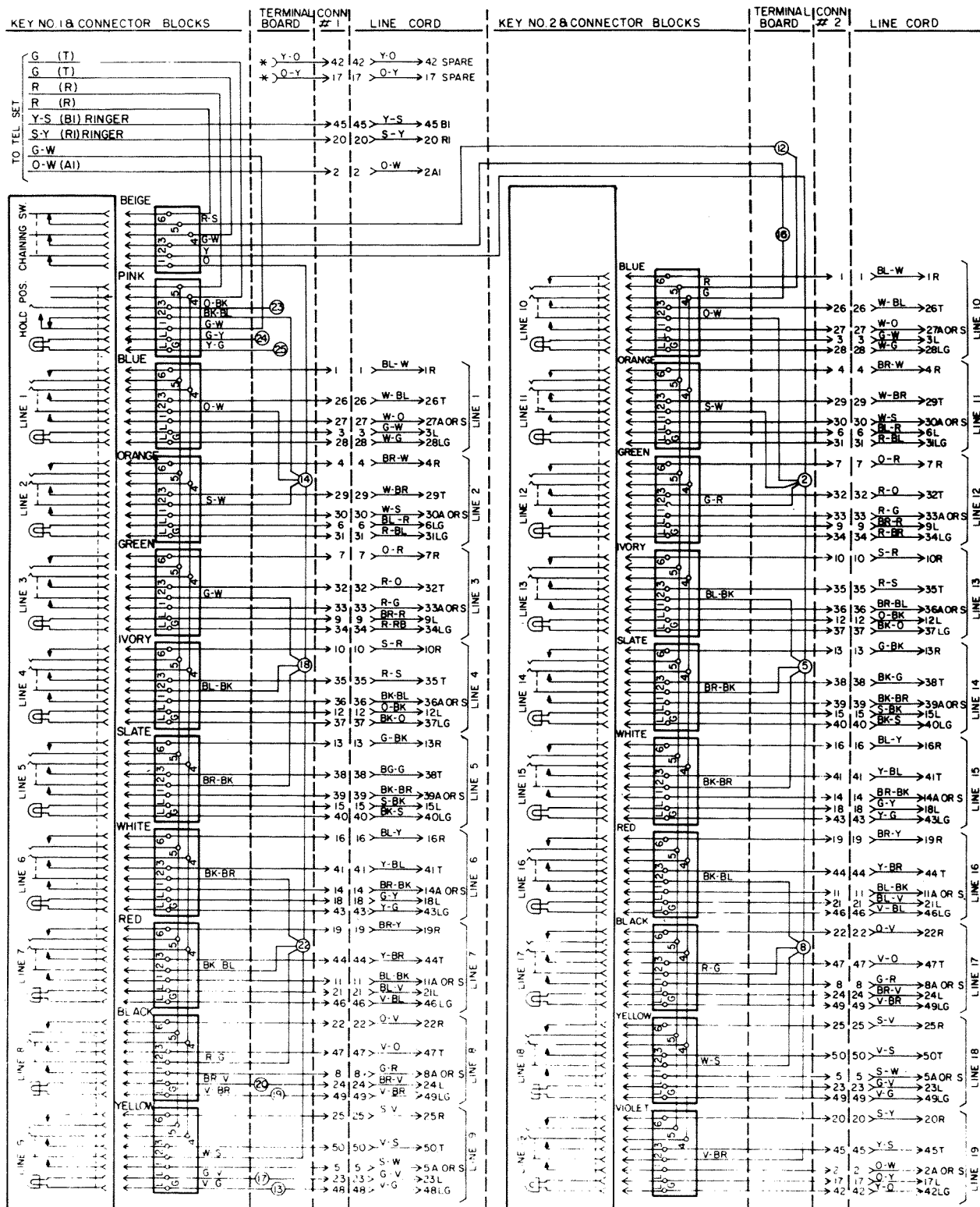


Figure 4. 20-Button Keystrip with Individual Lamp Ground and Privacy



\* TAPED & STORED

Figure 5. 20-Button Keystrip with Individual Lamp Ground (Busy Lamp Field Telephones Only)

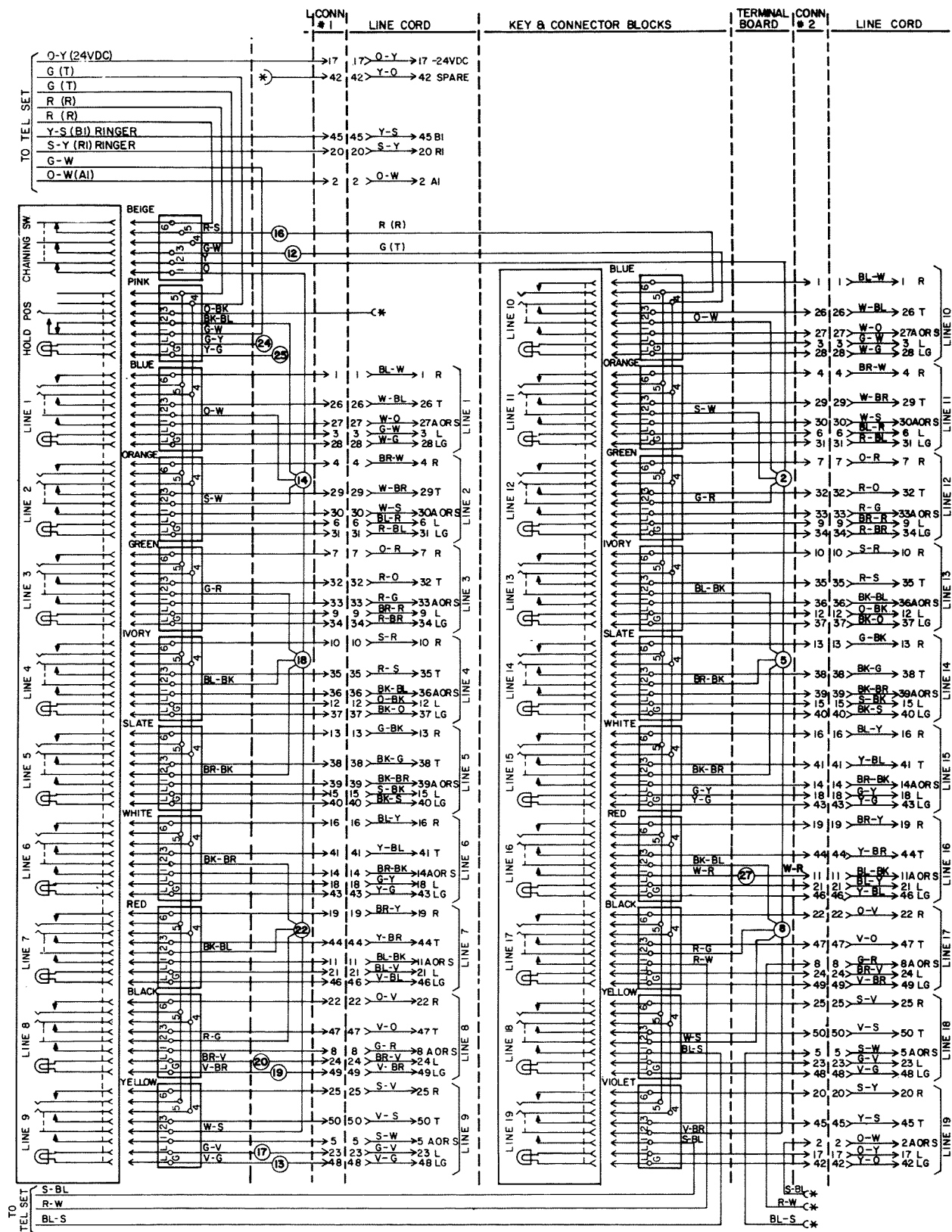
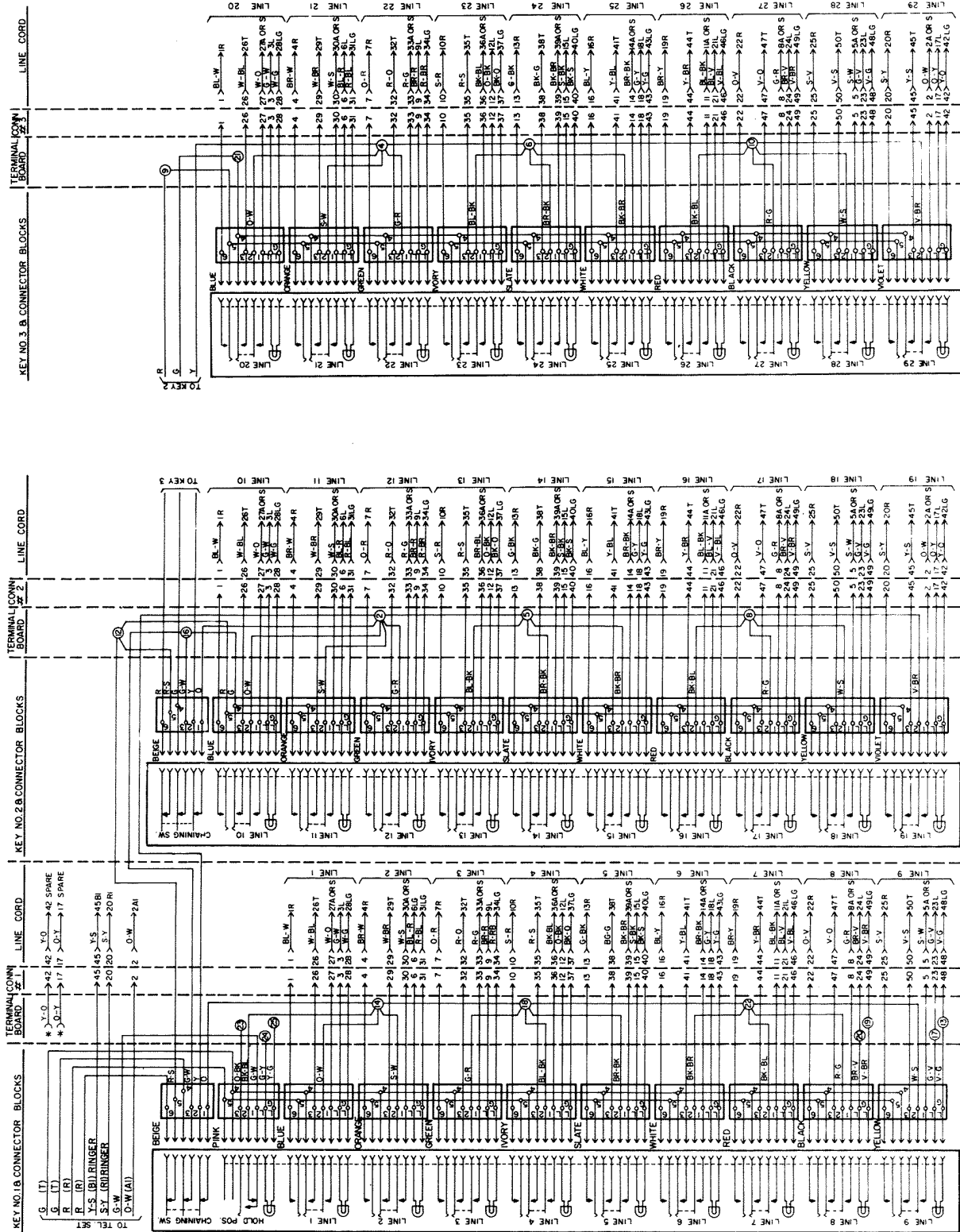


Figure 6. 20-Button Keystrip with Individual Lamp Ground and Privacy (Busy Lamp Field Telephones Only)



\* TAPED B STORED

Figure 7. 30-Button Keystrip with Individual Lamp Grounds

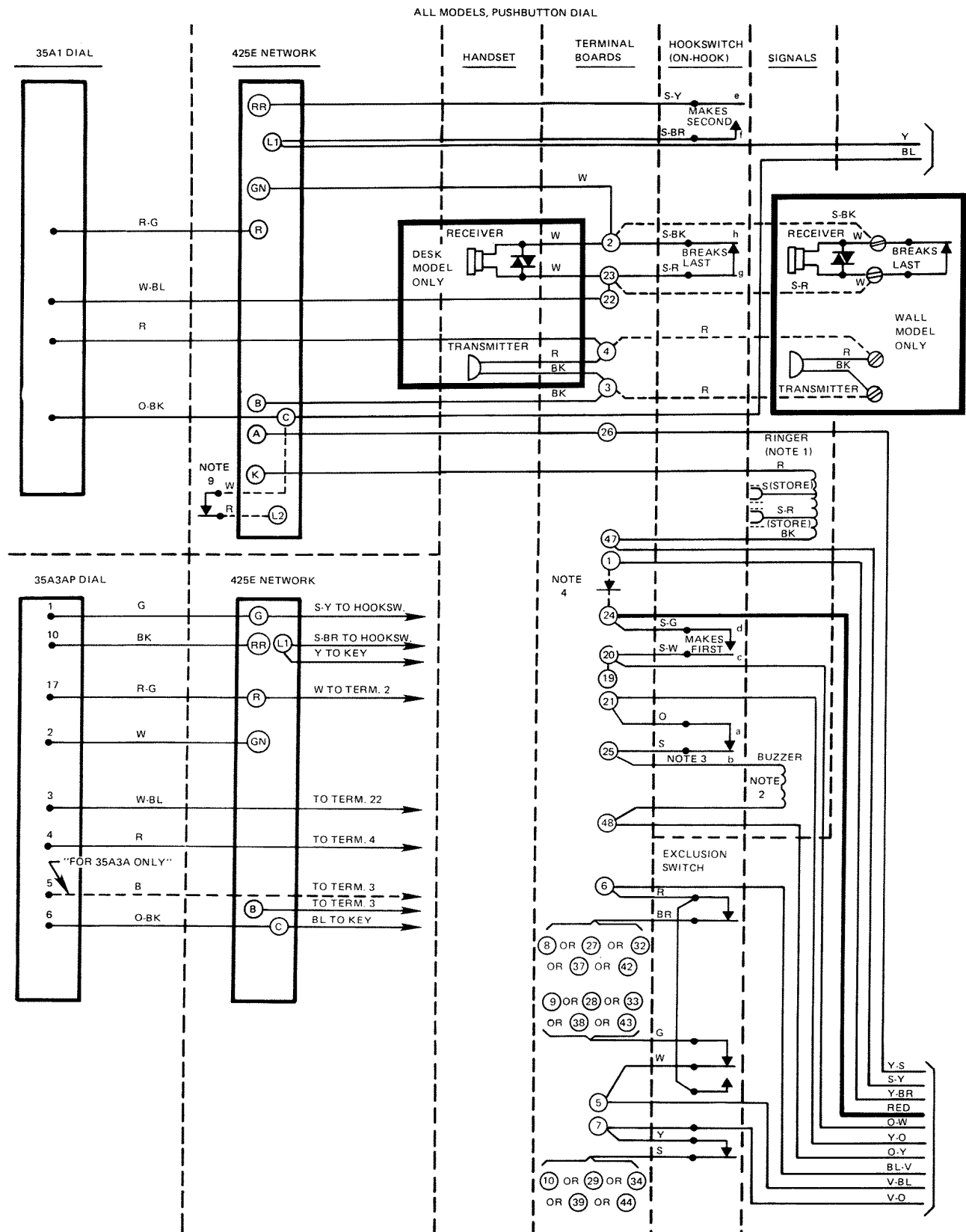


Figure 8. Wiring Diagram For Tone Dials Manufactured Prior To 1981

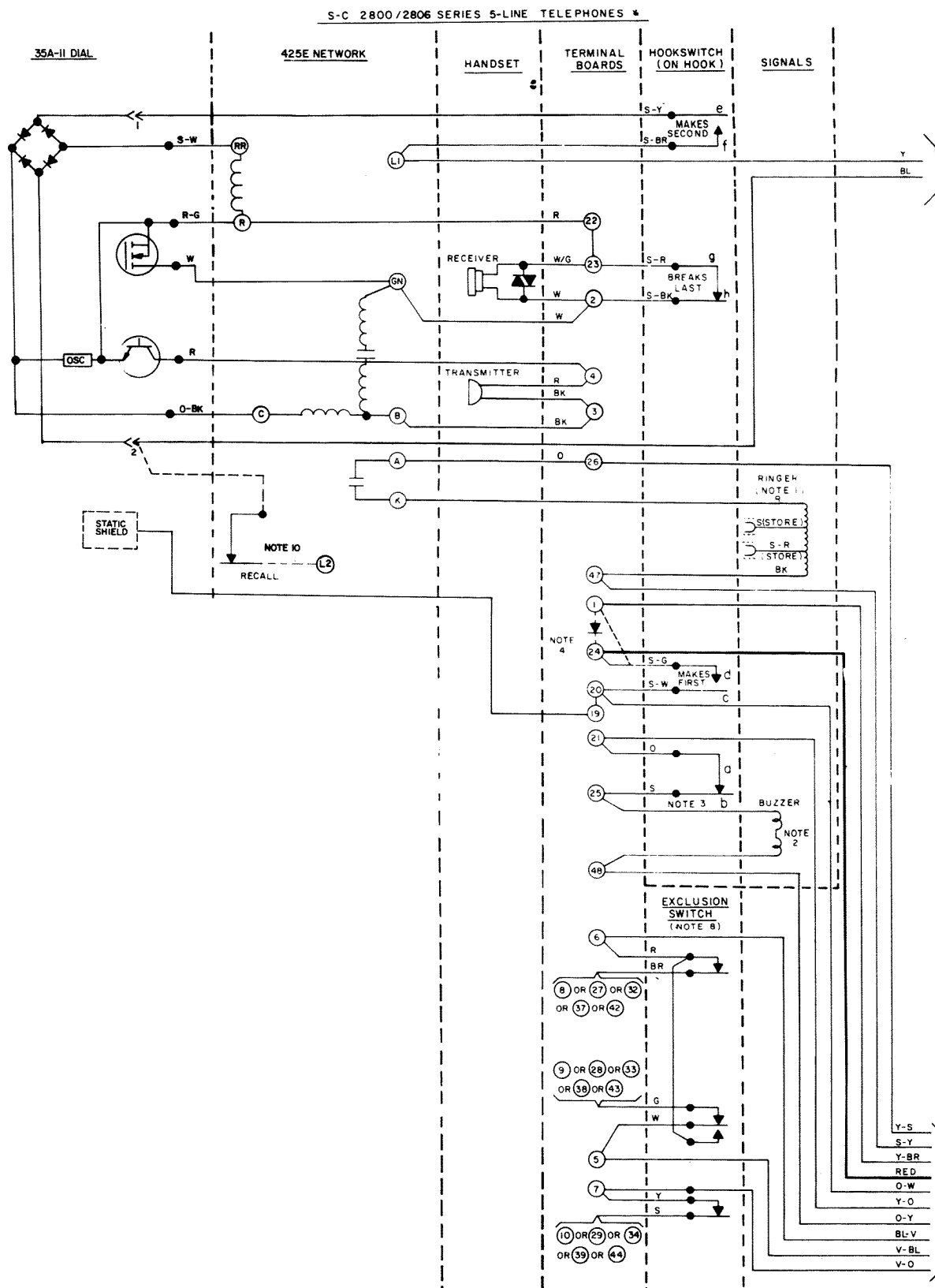


Figure 9. Type 35A11 Dial for Image I Telephones

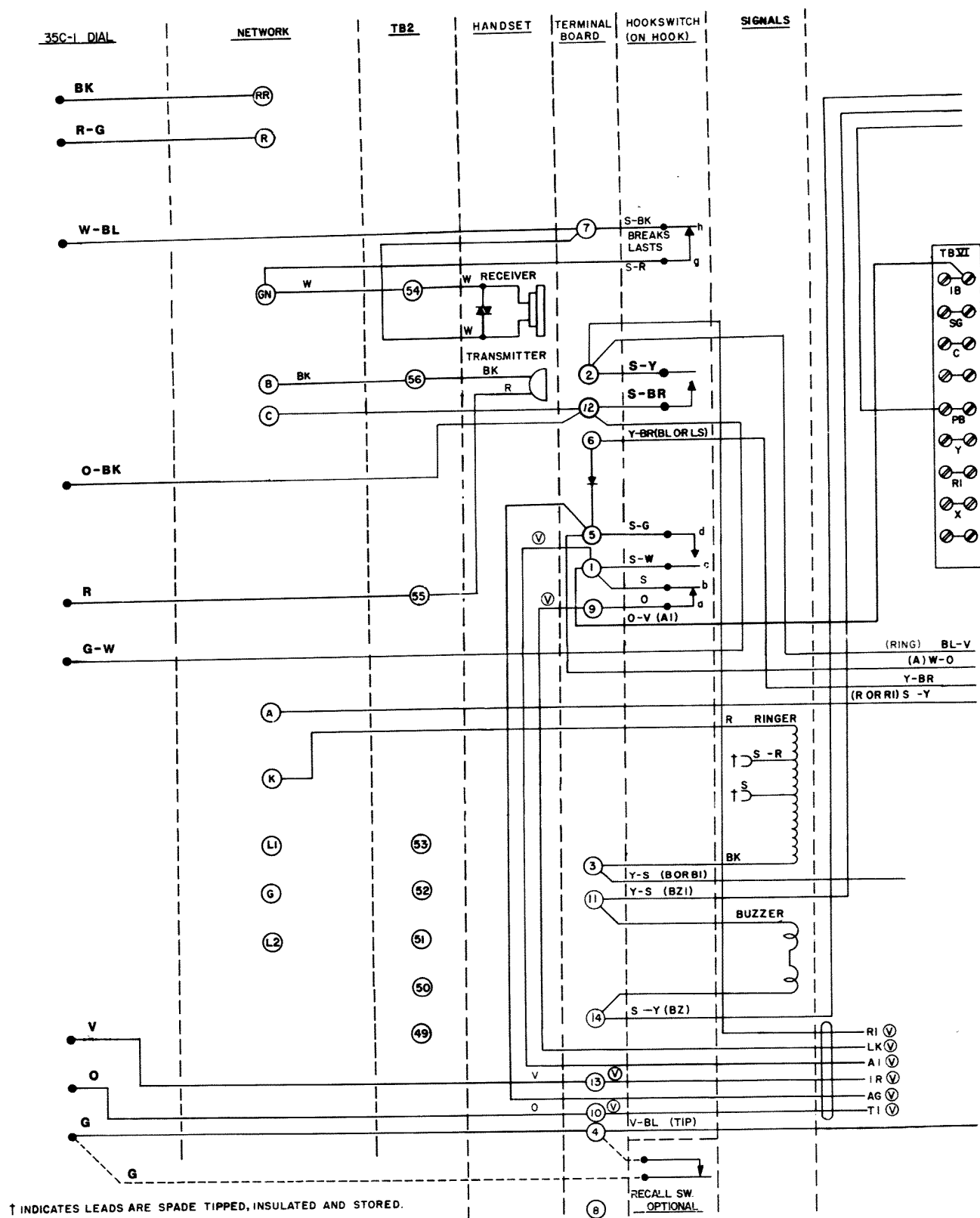


Figure 10. Type 35C1 Dial for Image I Telephones

## 20-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY &amp; B.L.F.

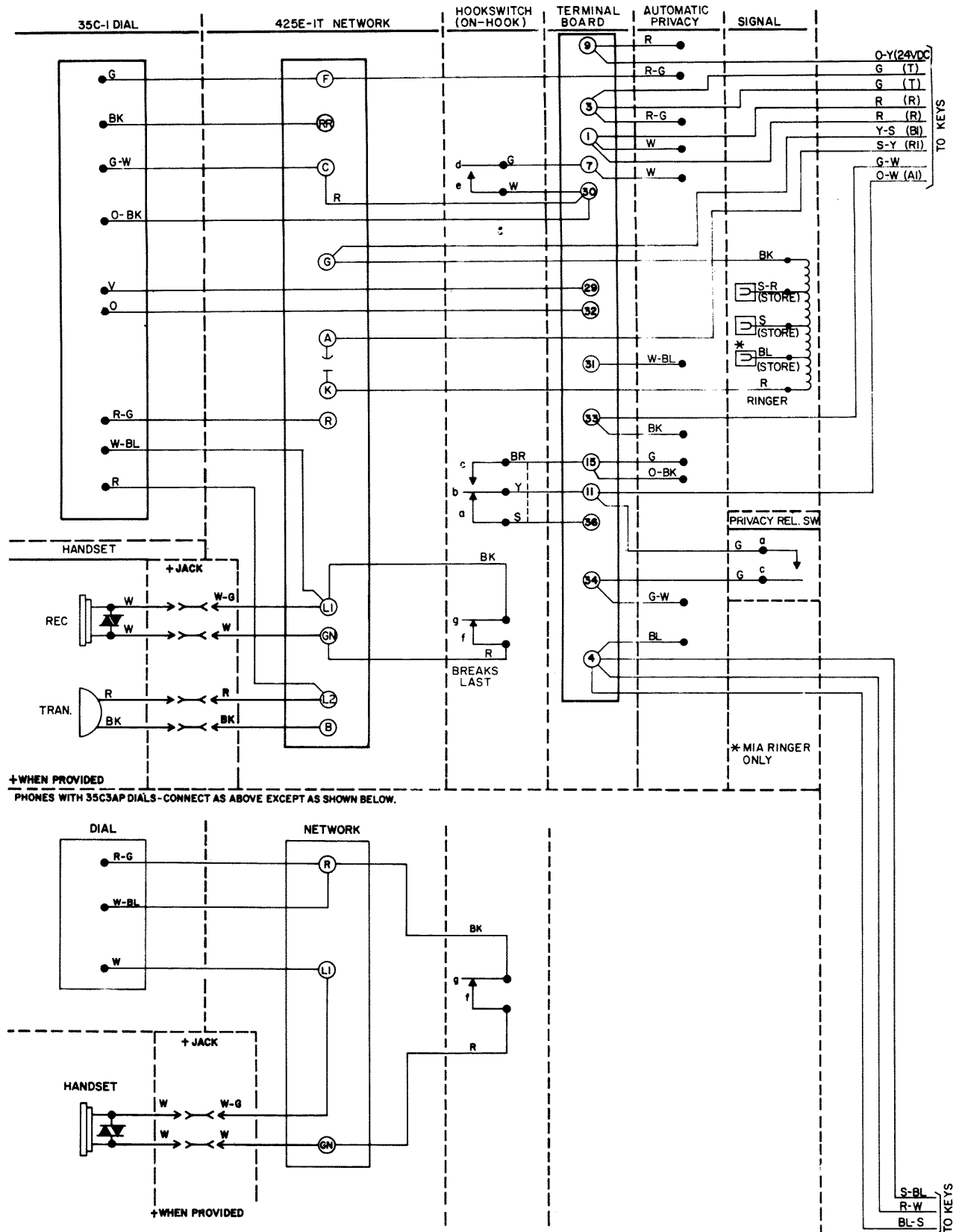
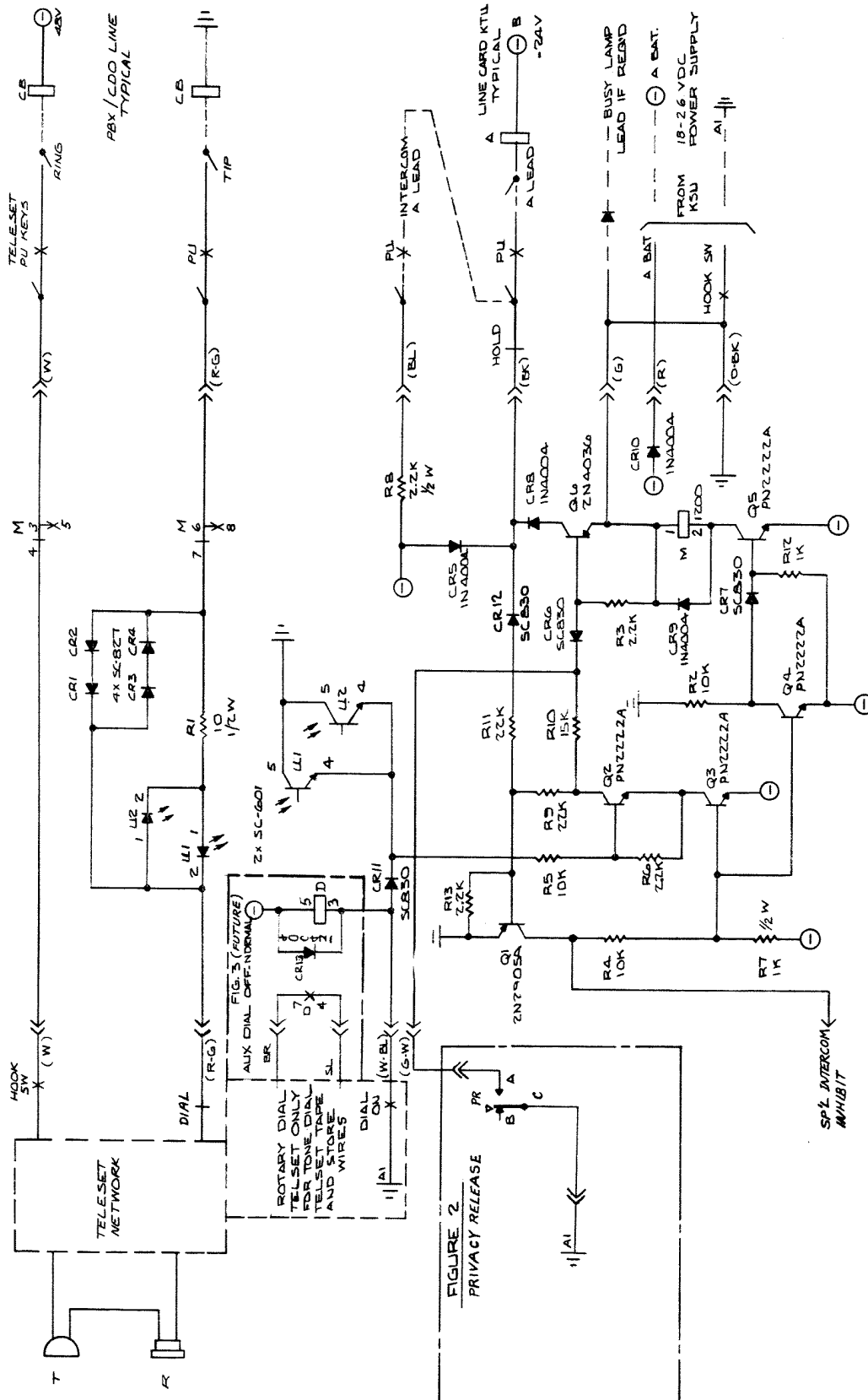


Figure 11. Type 35C1 Dial for Image II Telephones

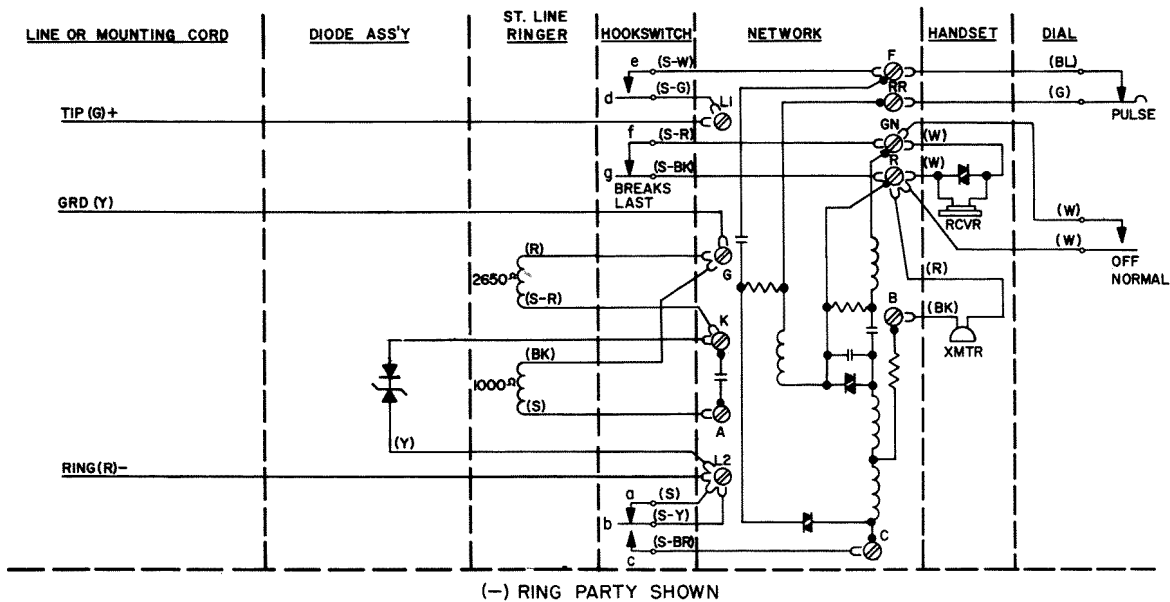
FIGURE 1  
PRIVACY



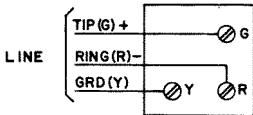
NOTES:  
1- ALL RESISTORS 1/4W ± 5% UNLESS OTHERWISE INDICATED.  
2- CURRENT DRAIN:  
IDLE CIRCUIT - 0  
BUSY CIRCUIT - 5.0MA  
MAXIMUM - 14.0MA

| FEATURE                                                                   | FIG.  | OFT      |
|---------------------------------------------------------------------------|-------|----------|
| EACH KEY TELEPHONE REQ. PRIVACY FEATURE AND EXTRA DIAL OFF-NORMAL CONTACT | 1,2,3 | (FUTURE) |
| EACH KEY TELEPHONE REQUIRING PRIVACY FEATURE                              | 1,2   |          |

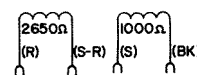
# 501D / 556B TELEPHONE WIRING DIAGRAM



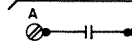
STANDARD CONNECTOR  
BLOCK WIRING



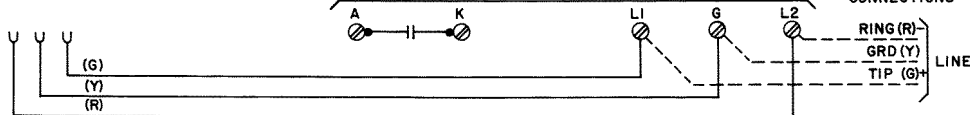
C4A1 ST. LINE RINGER



NETWORK TERMINALS



WALL PHONE  
CONNECTIONS



| LINE AND RINGER CONNECTIONS                     |        |                      |     |                      |     |
|-------------------------------------------------|--------|----------------------|-----|----------------------|-----|
| WIRE OR LEAD                                    | COLOR  | NEGATIVE (-) PARTIES |     | POSITIVE (+) PARTIES |     |
|                                                 |        | RING                 | TIP | RING                 | TIP |
| RINGER LEADS                                    | R      | G                    | G   | L2                   | L2  |
|                                                 | BK     | G                    | G   | L2                   | L2  |
|                                                 | S      | A                    | A   | A                    | A   |
|                                                 | S-R    | K                    | K   | K                    | K   |
| 426A TUBE<br>(3 ELEMENT)                        | R      | G                    | G   | L2                   | L2  |
|                                                 | BK     | K                    | K   | K                    | K   |
|                                                 | Y      | L2                   | L2  | G                    | G   |
|                                                 | R      | L1                   | L1  | L2                   | L2  |
| 425A TUBE<br>(4 ELEMENT)                        | G      | L2                   | L2  | L1                   | L1  |
|                                                 | BK     | K                    | K   | K                    | K   |
|                                                 | Y      | L2                   | L2  | G                    | G   |
|                                                 | R      | R                    | G   | R                    | G   |
| DESK<br>MOUNTING CORD<br>AT<br>CONNECTING BLOCK | G      | G                    | R   | G                    | R   |
|                                                 | Y      | Y                    | Y   | Y                    | Y   |
|                                                 | R      | L2                   | L1  | L2                   | L1  |
| WALL<br>LINE WIRE<br>AT NETWORK                 | TIP +  | G                    | L1  | L2                   | L1  |
|                                                 | GRD    | Y                    | G   | G                    | G   |
|                                                 | RING - | R                    | L2  | L2                   | G   |
| DIODE ASSEMBLY                                  |        | Y                    | L2  | L2                   | G   |
|                                                 |        | -                    | K   | K                    | K   |

NOTES:

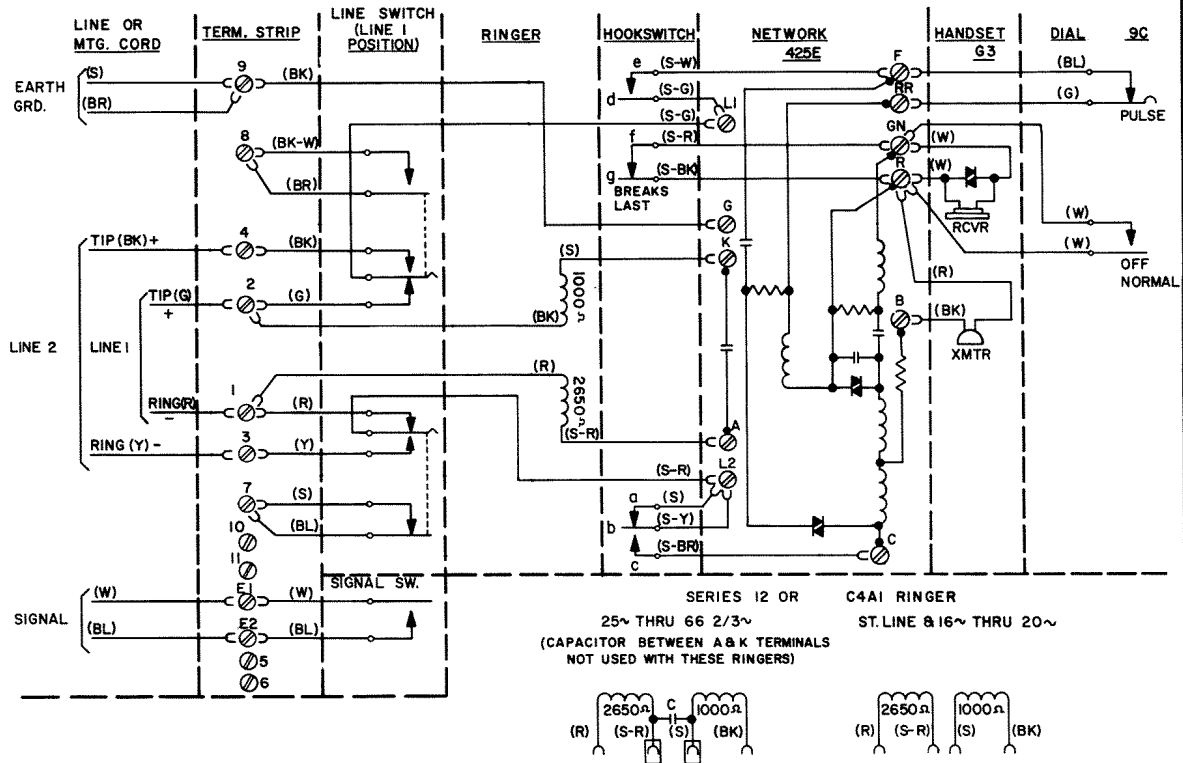
1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTOR AND TRANSFER (S-W) SWITCH LEAD FROM TERMINAL RR ON NETWORK.
2. FOR NO LINE INDUCTION SERVICE, USE 426A TUBE OR DIODE PACKAGE ASSEMBLY 703025-298.
3. FOR SEVERE LINE INDUCTION SERVICE USE 425A TUBE.
4. FOR AVERAGE LINE INDUCTION SERVICE ON POSITIVE TIP AND RING PARTIES, USE 425A TUBE.
- 5.
6. FOR ADDITIONAL INSTRUCTIONS REFER TO TECHNICAL MANUAL.

200843-100 ISSUE NO. 6

# 510 B. / 553B TELEPHONE

## WIRING DIAGRAM

### BRIDGED RINGING SHOWN



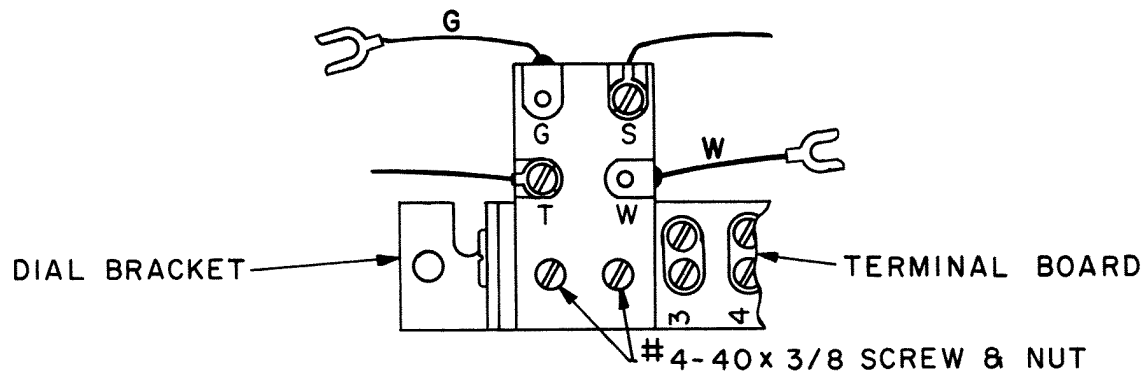
| LINE AND RINGER CONNECTIONS              |                                                              |           |                             |               |                           |    |  |                              |
|------------------------------------------|--------------------------------------------------------------|-----------|-----------------------------|---------------|---------------------------|----|--|------------------------------|
| WIRE OR LEAD                             |                                                              | COLOR     | INDIVIDUAL<br>OR<br>BRIDGED | RING<br>PARTY | TIP PARTY<br>(SEE NOTE 4) |    |  | CALL<br>TRANSFER<br>(NOTE 6) |
|                                          |                                                              |           |                             |               |                           |    |  |                              |
| STR LINE,<br>16 THRU 20~<br>RINGER LEADS |                                                              | R         | 1                           | 1             | 2                         |    |  | L2                           |
|                                          |                                                              | BK        | 2                           | G             | G                         |    |  | L1                           |
|                                          |                                                              | S         | K                           | K             | K                         |    |  | K                            |
|                                          |                                                              | S-R       | A                           | A             | A                         |    |  | A                            |
| 25 THRU 66 2/3~<br>RINGER LEADS          |                                                              | R         | 1                           | 1             | 2                         |    |  | L2                           |
|                                          |                                                              | BK        | 2                           | G             | G                         |    |  | L1                           |
|                                          |                                                              | S         | STORE                       | STORE         | STORE                     |    |  | STORE                        |
|                                          |                                                              | S-R       | STORE                       | STORE         | STORE                     |    |  | STORE                        |
| HOOKSWITCH LEAD                          |                                                              | S         | L2                          | L2            | L2                        |    |  | L2                           |
| DESK                                     | MOUNTING<br>CORD<br>AT<br>NETWORK<br>OR<br>TERMINAL<br>STRIP | RING 1    | R                           | 1             | 1                         | 1  |  | L2                           |
|                                          |                                                              | TIP 1     | G                           | 2             | 2                         | 2  |  | L1                           |
|                                          |                                                              | RING 2    | Y                           | 3             | 3                         | 3  |  | 3                            |
|                                          |                                                              | TIP 2     | BK                          | 4             | 4                         | 4  |  | STORE                        |
|                                          |                                                              | SIGNAL 1  | BL                          | E2            | E2                        | E2 |  | STORE                        |
|                                          |                                                              | SIGNAL 2  | W                           | E1            | E1                        | E1 |  | STORE                        |
|                                          |                                                              | GRD       | S                           | -             | 9                         | 9  |  | STORE                        |
|                                          |                                                              | GRD       | BR                          | -             | 9                         | 9  |  | STORE                        |
| WALL                                     | LINE<br>WIRE<br>AT<br>NETWORK<br>OR<br>TERMINAL<br>STRIP     | RING 1    |                             | 1             | 1                         | 1  |  | L2                           |
|                                          |                                                              | TIP 1     |                             | 2             | 2                         | 2  |  | L1                           |
|                                          |                                                              | RING 2    |                             | 3             | 3                         | 3  |  | -                            |
|                                          |                                                              | TIP 2     |                             | 4             | 4                         | 4  |  | -                            |
|                                          |                                                              | SIGNAL 1  |                             | E2            | E2                        | E2 |  | -                            |
|                                          |                                                              | SIGNAL 2  |                             | E1            | E1                        | E1 |  | -                            |
|                                          |                                                              | EARTH GRD |                             | -             | 9                         | 9  |  | 3                            |

#### NOTES:

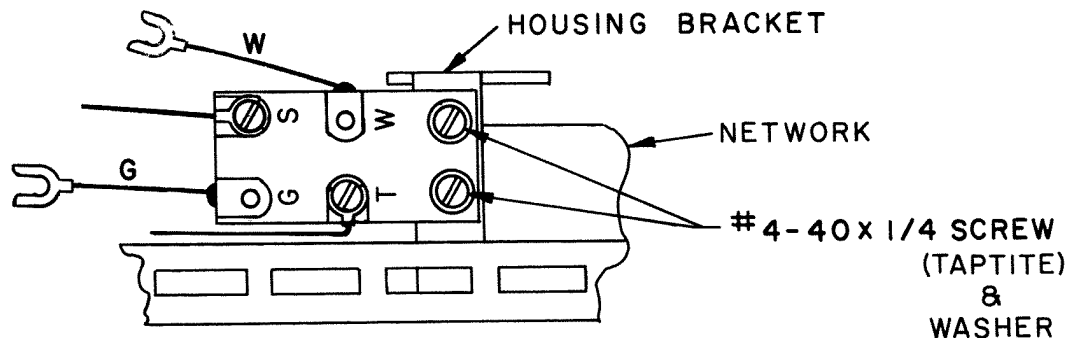
- FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTOR AND TRANSFER (S-W) SWITCH LEAD FROM TERMINAL F TO TERMINAL RR ON NETWORK.
- TELEPHONE NORMALLY FURNISHED WITH A SIX CONDUCTOR MOUNTING CORD AND WIRED FOR BRIDGED CONDITION. WHEN OTHER CLASSES OF SERVICE ARE DESIRED, REQUEST EIGHT CONDUCTOR MOUNTING CORD.
- FOR SUPERIMPOSED RINGING WITH 426A OR 425A TUBES OR 703025-298 DIODE ASSEMBLY, SEE WIRING DIAGRAM 200843-100.
- WHEN TIP PARTY IDENTIFICATION TO GROUND IS REQUIRED, WIRE TELEPHONE PER THIS COLUMN & ORDER PACKAGE ASSEMBLY AS FOLLOWS:
  - TIP PARTY - 1000Ω IDENTIFICATION TO GROUND-- 206012-523.
  - TIP PARTY - 2650Ω IDENTIFICATION TO GROUND-- 206012-543.
- TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER, CONNECT (W) MTG CORD OR (W) SIGNAL SWITCH TO EARTH GROUND AND MOVE (BL) SIGNAL SWITCH WIRE TO TERMINAL C ON NETWORK.
- WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT TIP (+) OF LINE OR (G) MOUNTING CORD TO L1, RING (-) OF LINE OR (R) MOUNTING CORD TO L2 AND EARTH GROUND TO 3 OR (Y) MOUNTING CORD. INSULATE AND STORE (S), (BR), (BK), (W) AND (BL) LEADS. TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.
- FOR ADDITIONAL INSTRUCTIONS REFER TO TECHNICAL MANUAL.

206073-100 ISSUE NO. 10

## INSTRUCTIONS FOR MOUNTING POLARITY GUARD



500 TD, 554 TD, 2500



2554

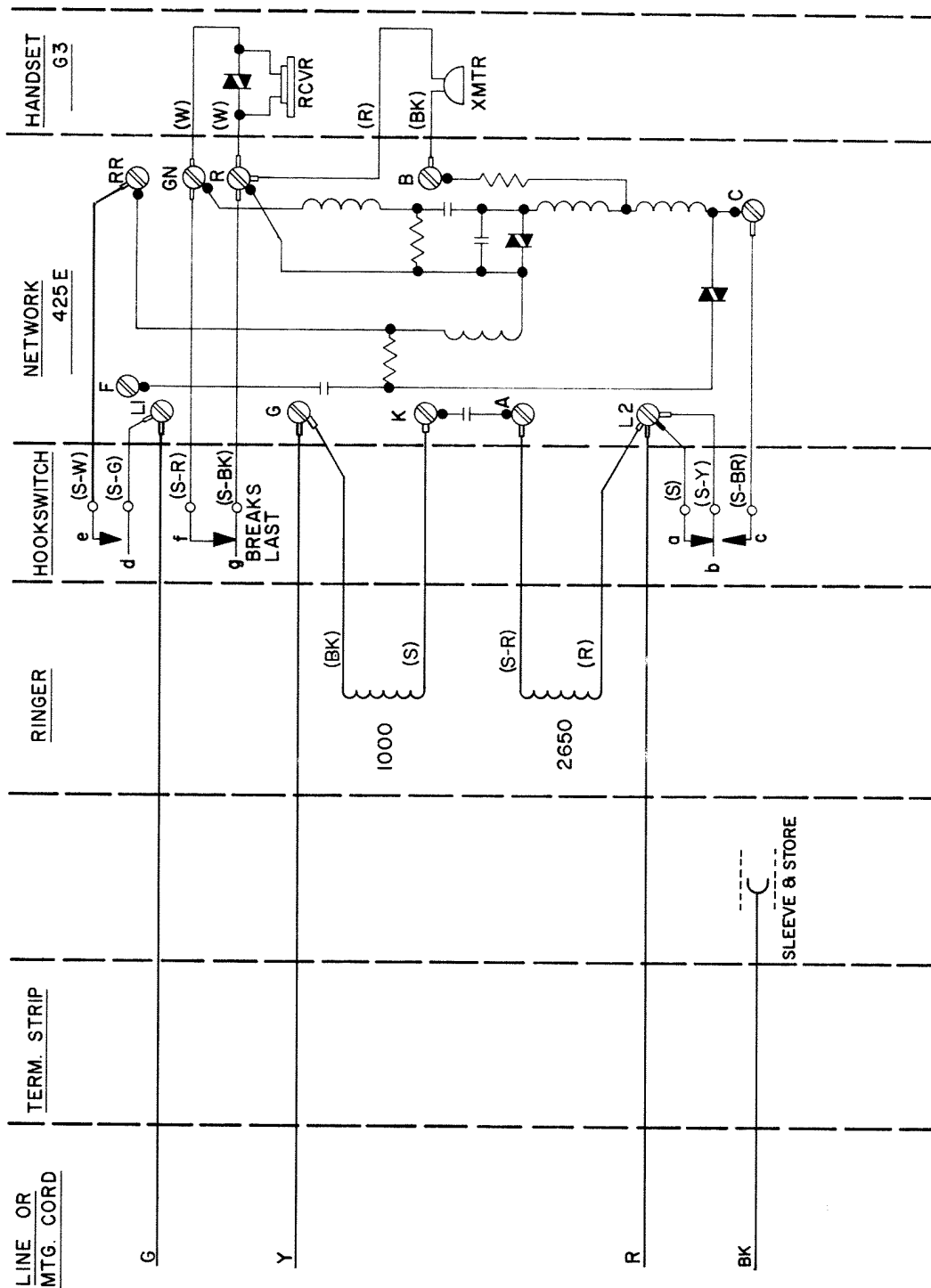
| CONNECTIONS    |                     |             |                   |
|----------------|---------------------|-------------|-------------------|
| WIRE OR LEAD   |                     | REMOVE FROM | CONNECT TO        |
| DIAL           | BK                  | RR (NET)    | T OF GUARD ASSEM. |
| HOOKSWITCH     | S-BR <i>OR</i> BR * | C (NET)     | S OF GUARD ASSEM. |
| POLARITY GUARD | G                   |             | RR (NET)          |
|                | W                   |             | C (NET)           |

NOTE: ON EARLY GUARD ASSEMBLIES, G LEAD WAS BK, W LEAD WAS BR

\* 2554 WIRED FOR "A" LEAD CONTROL, MAY HAVE A BLU HOOK-SWITCH WIRE OR A STRAP ON "C". MOVE TO "S" OF GUARD ASSEMBLY.  
300980-291 ISSUE NO. 5

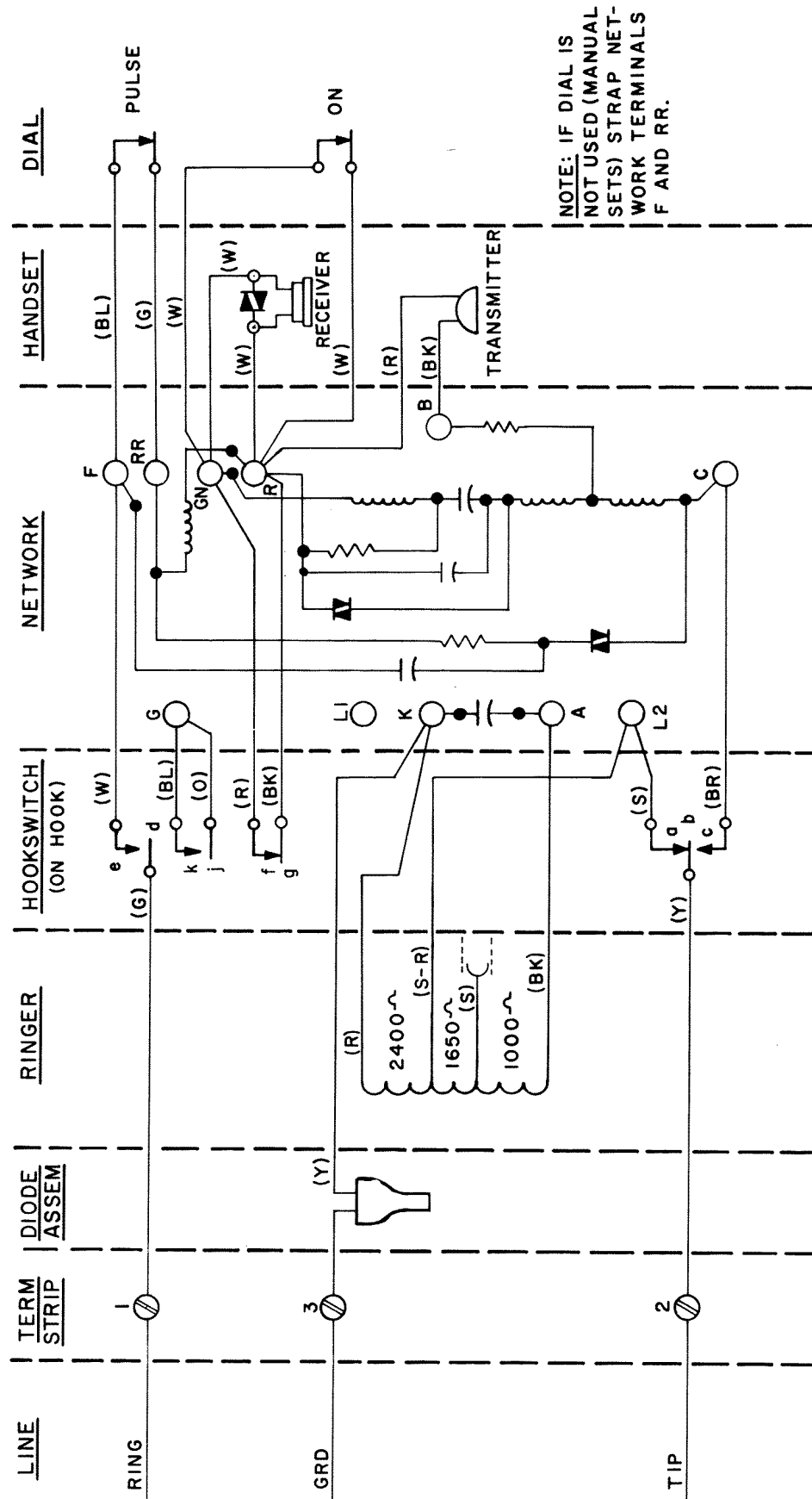
# 2500D / 500 MANUAL

## WIRING DIAGRAM



# 1656 B TELEPHONE

## WIRING DIAGRAM



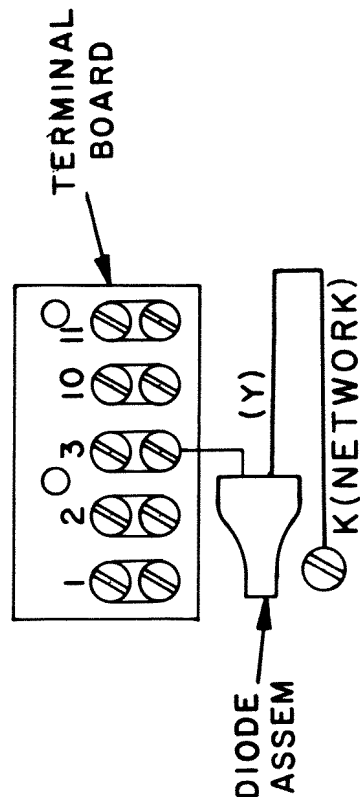
NOTE: IF DIAL IS NOT USED (MANUAL SETS) STRAP NETWORK TERMINALS F AND RR.

TIP PARTY (-) SHOWN

# TABLE OF CONNECTIONS

| CLASS OF SERVICE<br>SUPERIMPOSED | HKSW<br>LEAD<br>S | LINE<br>RING TIP GRD | STRAIGHT LINE<br>RINGER LEADS<br>R S-R S BK | DIODE ASSEMBLY<br>LEADS<br>Y * NOTE 1 |
|----------------------------------|-------------------|----------------------|---------------------------------------------|---------------------------------------|
| TIP PARTY (+)                    | K                 | 1 2 3                | K L1 STORE A                                | 3 L1                                  |
| TIP PARTY (-)                    | L2                | 1 2 3                | K L2 STORE A                                | K 3                                   |
| RING PARTY (+)                   | K                 | 2 1 3                | K L1 STORE A                                | 3 L1                                  |
| RING PARTY (-)                   | L2                | 2 1 3                | K L2 STORE A                                | K 3                                   |

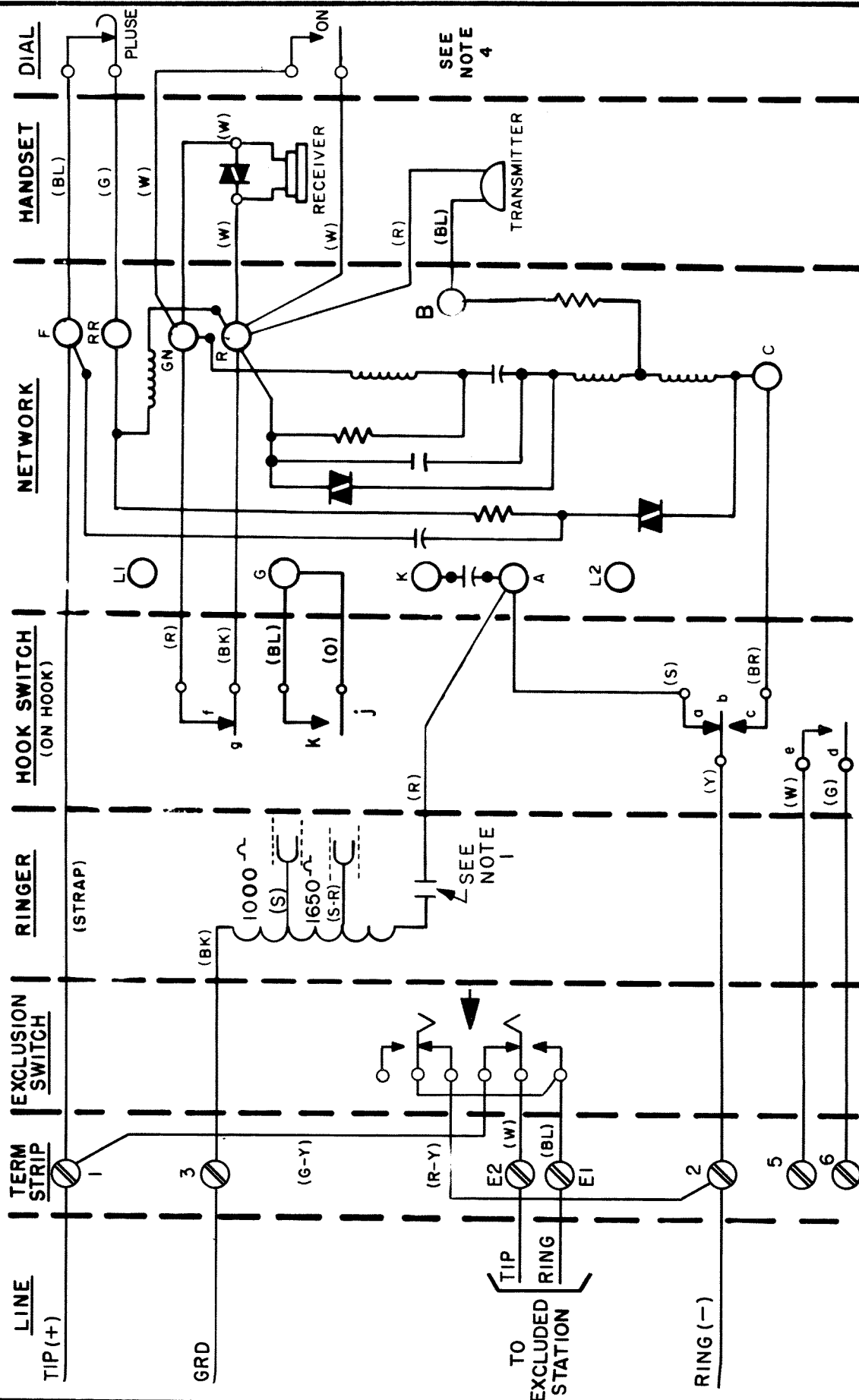
1- LEAD OPPOSITE YELLOW MARK ON DIODE ASSEMBLY 202912-738 IS UNMARKED.



METHOD OF CONNECTING 202912-738 DIODE ASSEMBLY (TIP PARTY (-) SHOWN).

# 1652 B TELEPHONE

## WIRING DIAGRAM



# TABLE OF CONNECTIONS

| CLASS<br>OF<br>SERVICE        | CONNECTIONS AT NETWORK OR TERMINAL BD |                                |   |    |       |
|-------------------------------|---------------------------------------|--------------------------------|---|----|-------|
|                               | LINE                                  | RINGER LEADS<br>(SEE NOTES 1 ) |   |    |       |
|                               |                                       | RING(-) TIP(+) GRD             | R | BK | S-R S |
| BRIDGED                       | 2                                     | 1 3                            | A | 1  | - -   |
| RING PARTY                    | 2                                     | 1 3                            | A | 3  | - -   |
| TIP PARTY ( NO IDENT )        | 1                                     | 2 3                            | A | 3  | - -   |
| TIP PARTY (1000 IDENT TO GRD) | 1                                     | 2 3                            | A | 3  | - B   |
| TIP PARTY (2650 IDENT TO GRD) | 1                                     | 2 3                            | A | 3  | B     |

## NOTES:

1-STRAIGHT LINE RINGERS AND 16, 16<sup>2</sup>/<sub>3</sub>, 20 CPS TUNED RINGERS HAVE NO CAPACITOR IN SERIES WITH (R) RINGER LEAD. WHEN THESE RINGERS ARE USED, CONNECT (R) RINGER LEAD TO TERMINAL K ON NETWORK.

2- TO SILENCE RINGER PERMANENTLY, DISCONNECT THE (R) RINGER LEAD FROM THE A OR K TERMINAL ON THE NETWORK, INSULATE AND STORE.  
(S) RINGER LEAD MUST REMAIN CONNECTED TO THE B TERMINAL ON THE NETWORK FOR PARTY IDENTIFICATION.

3-FOR FOUR-PARTY IDENTIFICATION SERVICE, CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL B AND RINGER IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.

4-IF DIAL IS NOT USED (MANUAL SETS), STRAP NETWORK TERMINALS F AND RR.

# 1653B TELEPHONE

## WIRING DIAGRAM

BRIDGED RINGING SHOWN

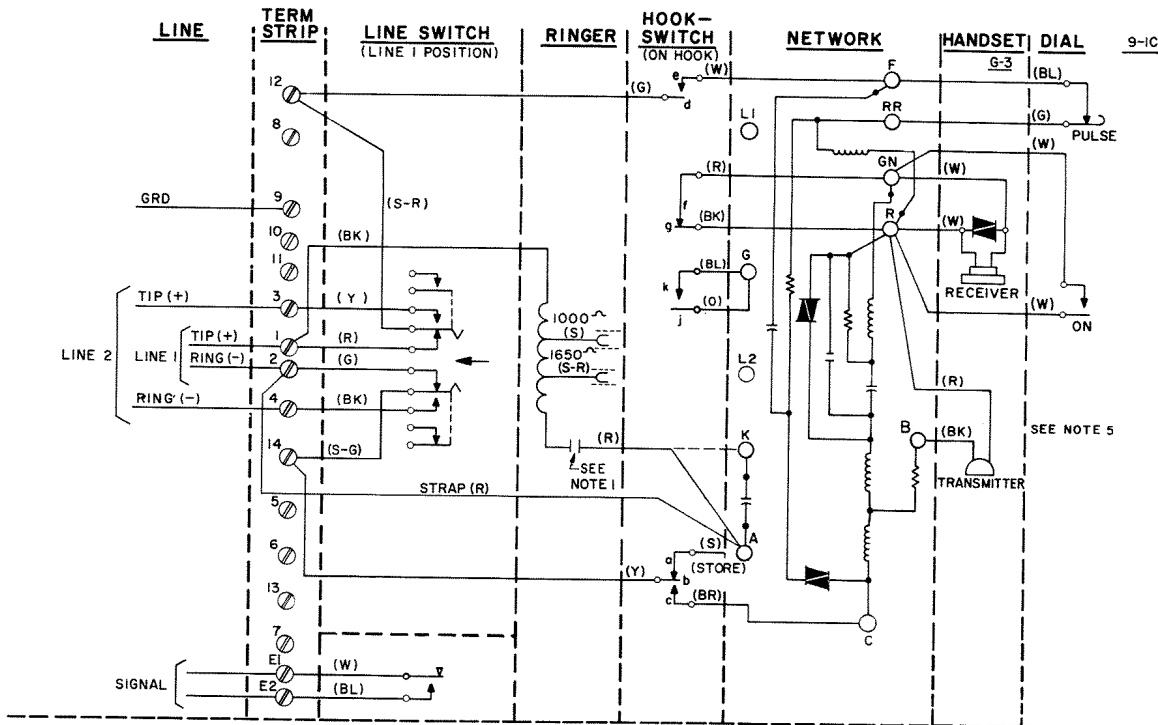


TABLE OF CONNECTIONS

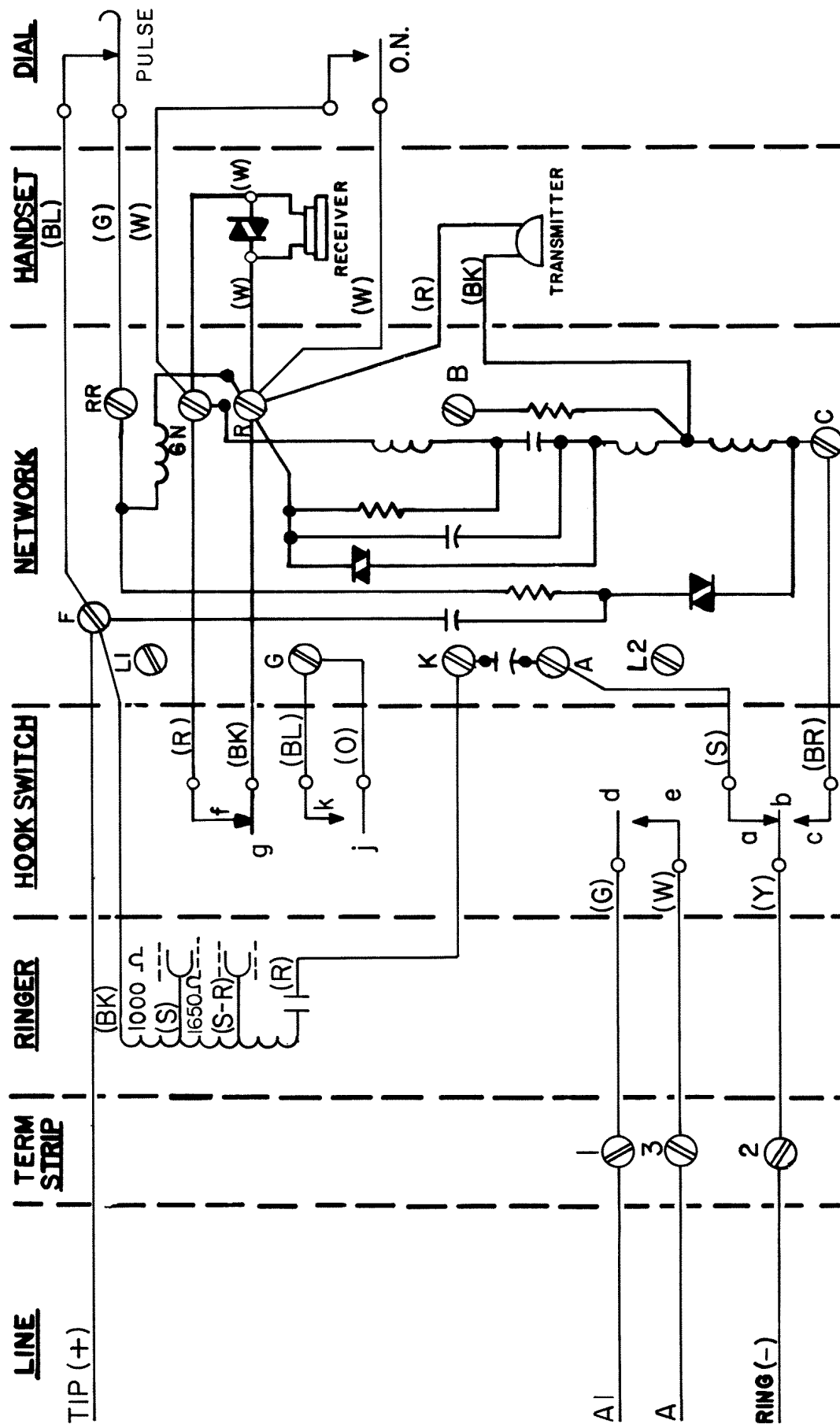
| CLASS OF SERVICE | CONNECTIONS AT NETWORK OR TERMINAL BD |        |     |                            |    |     |         |
|------------------|---------------------------------------|--------|-----|----------------------------|----|-----|---------|
|                  | LINE                                  |        |     | RINGER LEADS (SEE NOTES 1) |    |     | REMARKS |
|                  | RING(-)                               | TIP(+) | GRD | R                          | BK | S-R |         |
| BRIDGED          | 2                                     | 1      | 9   | A                          | 1  | -   |         |
| RING PARTY       | 2                                     | 1      | 9   | A                          | 9  | -   |         |
| TIP PARTY        | 1                                     | 2      | 9   | A                          | 9  | -   |         |
| CALL TRANSFER    | 14                                    | 12     | 4   | NOTE 4                     | 12 | -   |         |

### NOTES:

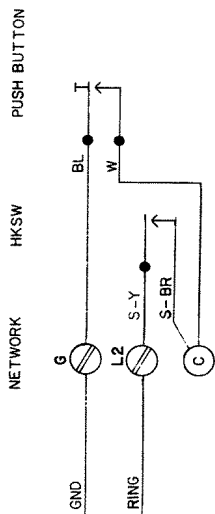
- 1-STRAIGHT LINE RINGERS AND 16,16<sup>2</sup>/<sub>3</sub>, 20 CPS TUNED RINGERS HAVE NO CAPACITOR IN SERIES WITH (R) RINGER LEAD. WHEN THESE RINGERS ARE USED, CONNECT (R) RINGER LEAD TO TERMINAL K ON NETWORK.
- 2- TO SILENCE RINGER PERMANENTLY, DISCONNECT THE (R) RINGER LEAD FROM THE A OR K TERMINAL ON THE NETWORK. INSULATE AND STORE.
- 3- TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER, CONNECT (W) SIGNAL SWITCH LEAD TO EARTH GROUND (TERMINAL 9) AND MOVE (BL) SIGNAL SWITCH LEAD TO C TERMINAL ON NETWORK.
- 4- WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT AS INDICATED IN TABLE AND MOVE (R) STRAP FROM 2 TO 14. TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.
- 5- IF DIAL IS NOT USED (MANUAL SETS), STRAP NETWORK TERMINALS F AND RR.

703013-394 ISSUE NO. 3

# WIRING DIAGRAM



# 2551B PUSH BUTTON FOR GND. TRANSFER



## 2556 SUPER IMPOSED RINGING

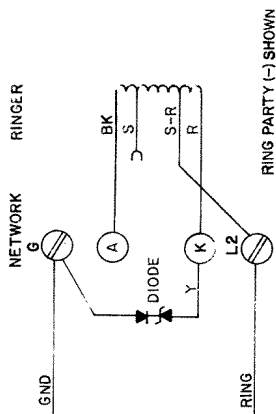
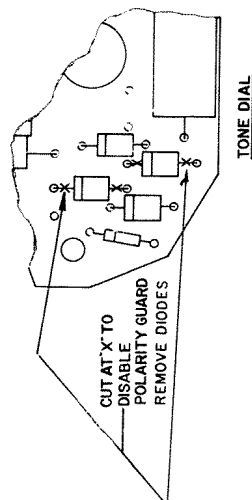


TABLE OF CONNECTIONS

| CLASS OF SERVICE | LINE | TIP | GRD | R | S-R | S     | BK | S-W | S-BR | S  | DIODE ASSEMBLY LEADS |
|------------------|------|-----|-----|---|-----|-------|----|-----|------|----|----------------------|
| TIP PARTY (+)    | L1   | L2  | G   | K | L1  | STORE | A  | C   | F    | K  | Y                    |
| TIP PARTY (-)    | L1   | L2  | G   | K | L2  | STORE | A  | C   | F    | K  | G                    |
| RING PARTY (+)   | L2   | L1  | G   | K | L1  | STORE | A  | F   | C    | K  | G                    |
| RING PARTY (-)   | L2   | L1  | G   | K | L2  | STORE | A  | F   | C    | L2 | K                    |

I- LEAD OPPOSITE YELLOW MARK ON DIODE ASSEMBLY 202912-738 IS UNMARKED.

IF POLARITY GUARD IS NOT DESIRED, DISABLE AS SHOWN:



NOTE: TO SILENCE RINGER PERMANENTLY, DISCONNECT THE (R) RINGER LEAD FROM THE A OR K TERMINAL ON THE NETWORK, INSULATE AND STORE. (S OR SR) RINGER LEAD MUST REMAIN CONNECTED TO THE B TERMINAL ON THE NETWORK FOR PARTY IDENTIFICATION.

# 2554B TELEPHONE WIRING DIAGRAM

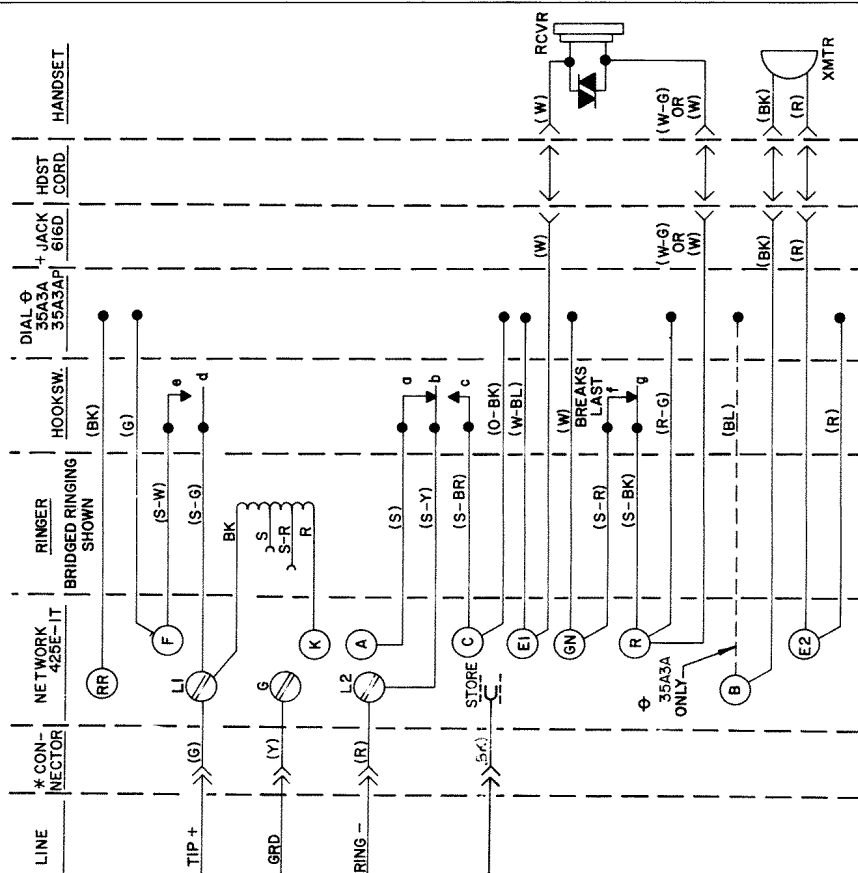


TABLE OF CONNECTIONS

| LEAD COLOR | INDIVIDUAL OR BRIDGED | RING PARTY | TIP PARTY NO IDENT. | TIP PARTY IDENT. TO GRD. |
|------------|-----------------------|------------|---------------------|--------------------------|
| R          | K                     | K          | K                   | 1000 OHM                 |
| BK         | LI                    | G          | G                   | 2650 OHM                 |
| S          | STORE                 | STORE      | STORE               | K                        |
| S-R        | STORE                 | STORE      | STORE               | G                        |
| R          | A                     | A          | A                   | STORE                    |
| BK         | LI                    | G          | G                   | B                        |
| S          | STORE                 | STORE      | STORE               | A                        |
| S-R        | STORE                 | STORE      | STORE               | STORE                    |
| S          | A                     | A          | A                   | STORE                    |
| S-W        | F                     | F          | F                   | STORE                    |
| S-BR       | C                     | C          | C                   | STORE                    |
| R          | L2                    | L2         | L2                  | LI                       |
| GRD        | LI                    | LI         | LI                  | L2                       |
| Y/BK       | G                     | G          | G                   | G                        |

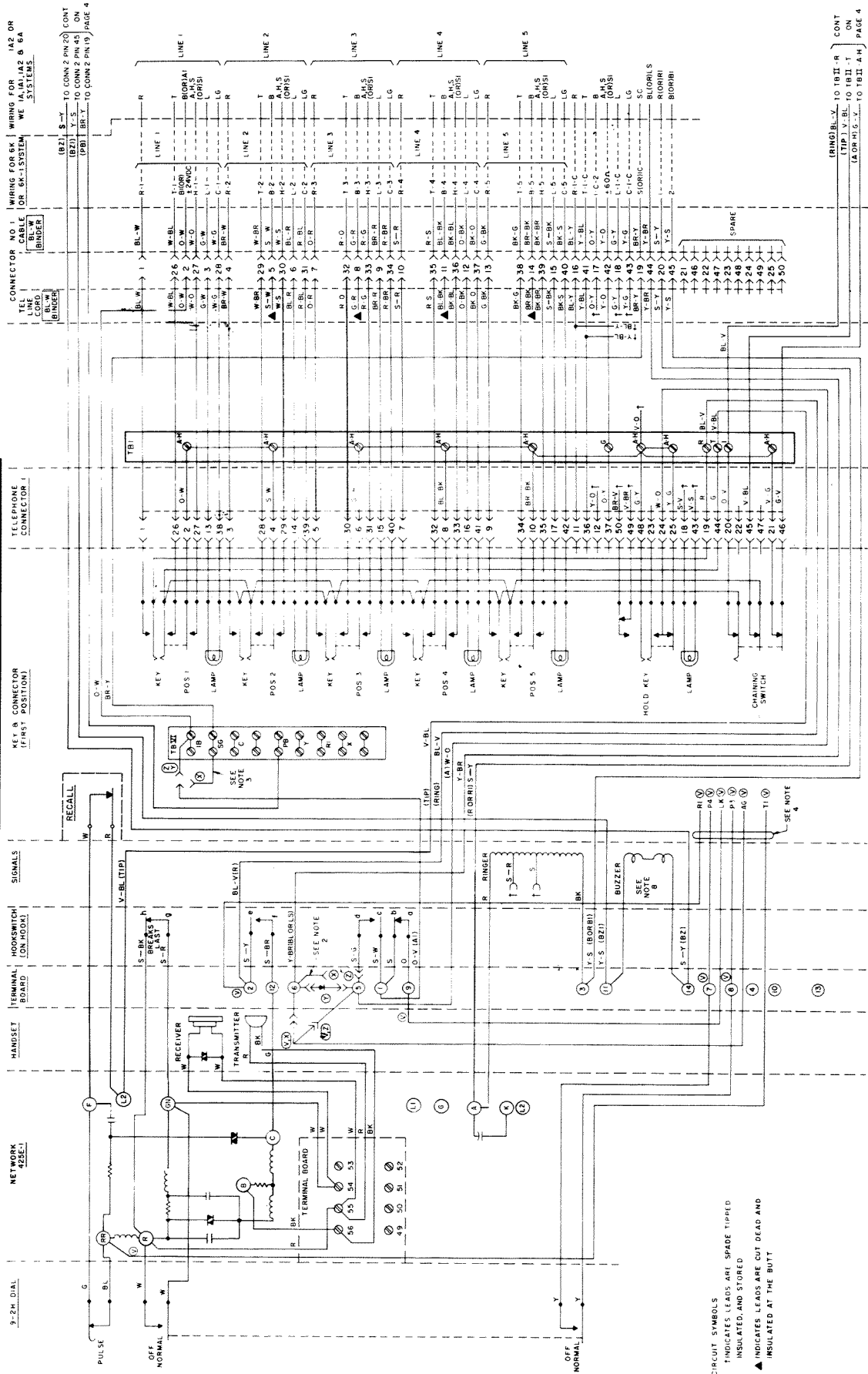
\* + CONNECTOR AND JACK USED ON MODULAR PHONES ONLY.

## COMDIAL 1800/2800-29B29( ) II TELEPHONE WIRING DIAGRAM ROTARY/TONE W/ LINE RESTORATION

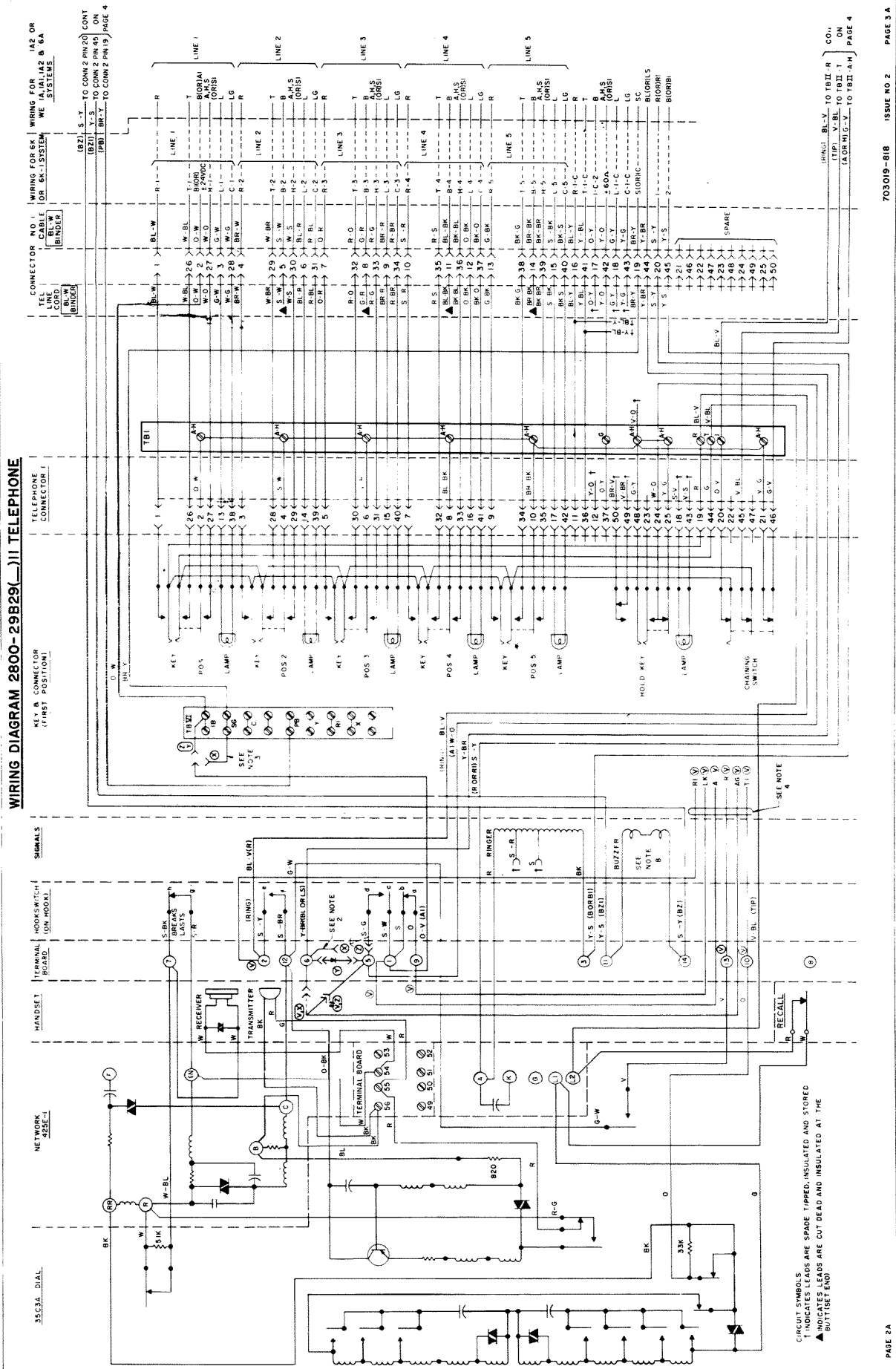
### NOTES:

1. SETS ARE FACTORY WIRED WITH "Z" WIRING FOR USE WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEMS WITHOUT STATION BUSY LAMPS.
2. FOR 1A1 OR 1A2 KEY TELEPHONE SYSTEMS WITH W.E. STATION BUSY LAMPS USE "X" AND "Y" WIRING AND ADD 1 1N1694 DIODE ( PART NO. 202852-138) AS SHOWN. FOR USE WITH 1A2 BUSY STATION NUMBER DISPLAY, ORDER PACKAGE ASSEMBLY 206286-451 AND CHANGE WIRING PER INSTRUCTION SHEET IN PACKAGE.
3. FOR 1A KEY TELEPHONE SYSTEMS, WITH OR WITHOUT STATION BUSY LAMP USE "X" WIRING AND CONNECT Y-G KEY LEAD TO "X" (TB-V1), BR-V KEY LEAD TO R-1 (TB-V1), V-BR KEY LEAD TO R (TB-1) AND MOVE BL-V LEAD FROM R (TB-1) TO R-1 (TB-V1).
4. FOR SPEAKERPHONE, USE "V" WIRING AND CONNECT PER INSTRUCTIONS WITH SPEAKERPHONE EQUIPMENT.
5. WITH 635-5B KEY IN FIRST MODULE , THE FOLLOWING LEADS ARE INSULATED AND STORED: (G-Y), (S-V), (Y-G), (V-S), (Y-O), (BL-Y), (Y-BL), AND (O-Y).
6. TO CONVERT KEYS FROM "PICKUP" TO "SIGNAL" FUNCTION, REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS FROM A-H TO THE SG TERMINAL OF TB-V1. IF ADDITIONAL TERMINALS ARE REQUIRED, PROVIDE A STRAP BETWEEN THE C TERMINAL AND THE SG TERMINAL OF TB-V1.
7. WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE.
  - A. SERIES 20 STRAIGHT LINE RINGER. ORDER PACKAGE ASSEMBLY 702100-244 AND WIRE AS SHOWN. IF CAPACITOR IS REQUIRED TO BLOCK D.C. FROM RINGER, CONNECT RED RINGER WIRE TO NETWORK TERMINAL K.
  - B. SERIES 20 RINGER FOR 60 Hz. ORDER PACKAGE ASSEMBLY 702100-260. CONNECT BLACK WIRE TO TERMINAL 3 AND RED WIRE TO TERMINAL A. DO NOT WIRE IN CAPACITOR A-K.
  - C. TONE RINGER. ORDER PACKAGE ASSEMBLY 202100-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY USING TERMINALS A AND 3.
8. WHEN AN INTERCOM BUZZER IS REQUIRED, THE FOLLOWING OPTION IS AVAILABLE.
  - A. "Q" BUZZER (AC) MAY BE MOUNTED TO CRADLE SWITCH BRACKET. CONNECT Y-S (BZ1) AND S-Y (BZ) LEADS (ORANGE BINDER) TO BUZZER LEADS USING TERMINALS 11 AND 14.
9. THE PB LEAD IS FOR ADD-ON CONFERENCE CONTROL OF THE 6A KEY TELEPHONE SYSTEM.
10. EACH SET IS SUPPLIED WITH (2)703017-162 BLOCKING RINGS TO PREVENT OPERATION OF UNUSED KEY BUTTONS.
11. WHEN POLARITY GUARD IS REQUIRED FOR TONE DIAL SIGNALLING UNDER REVERSE BATTERY CONDITIONS ORDER PACKAGE ASSEMBLY 703016-852

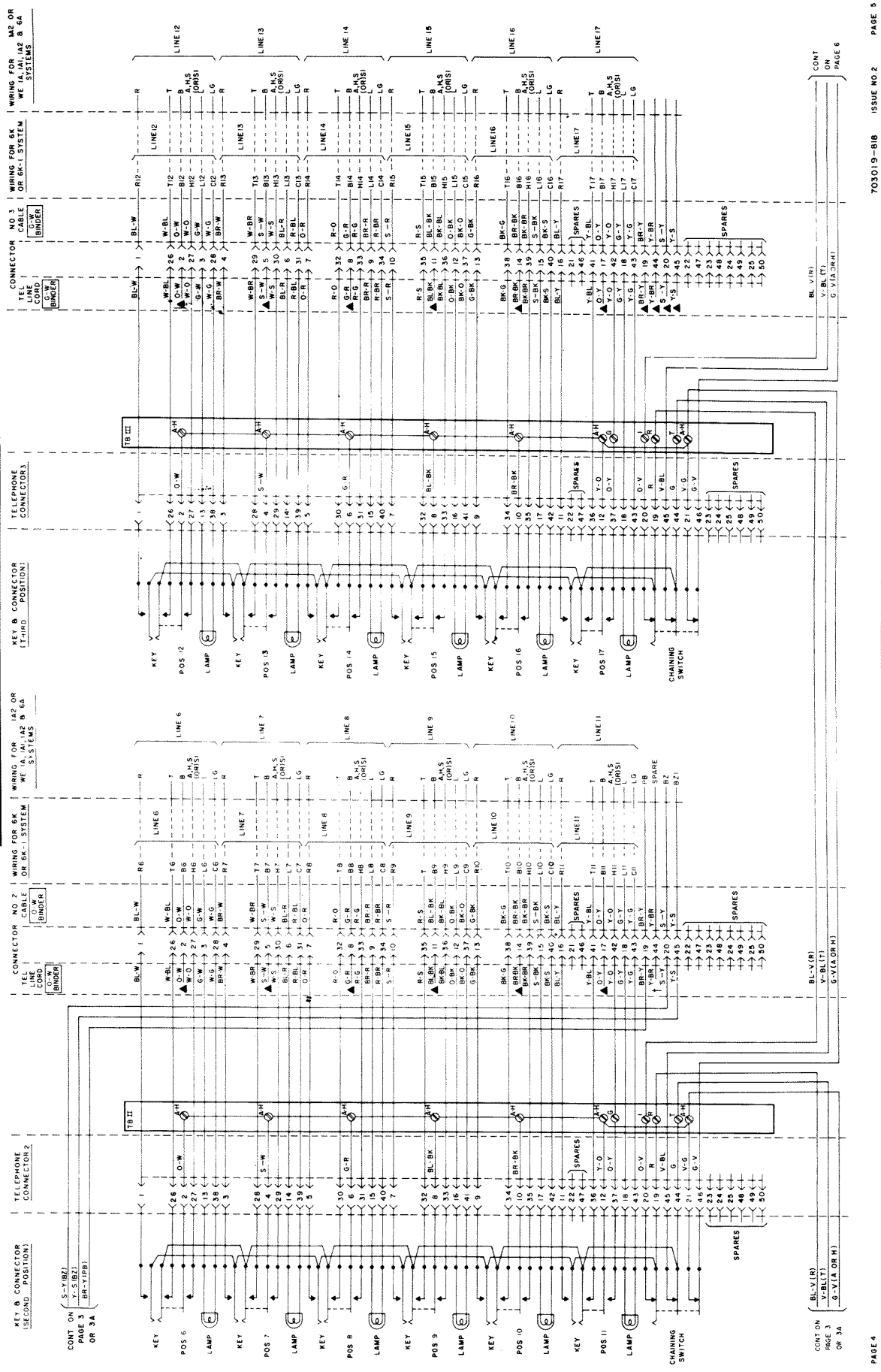
# WIRING DIAGRAM 1800-29829(1) TELEPHONE



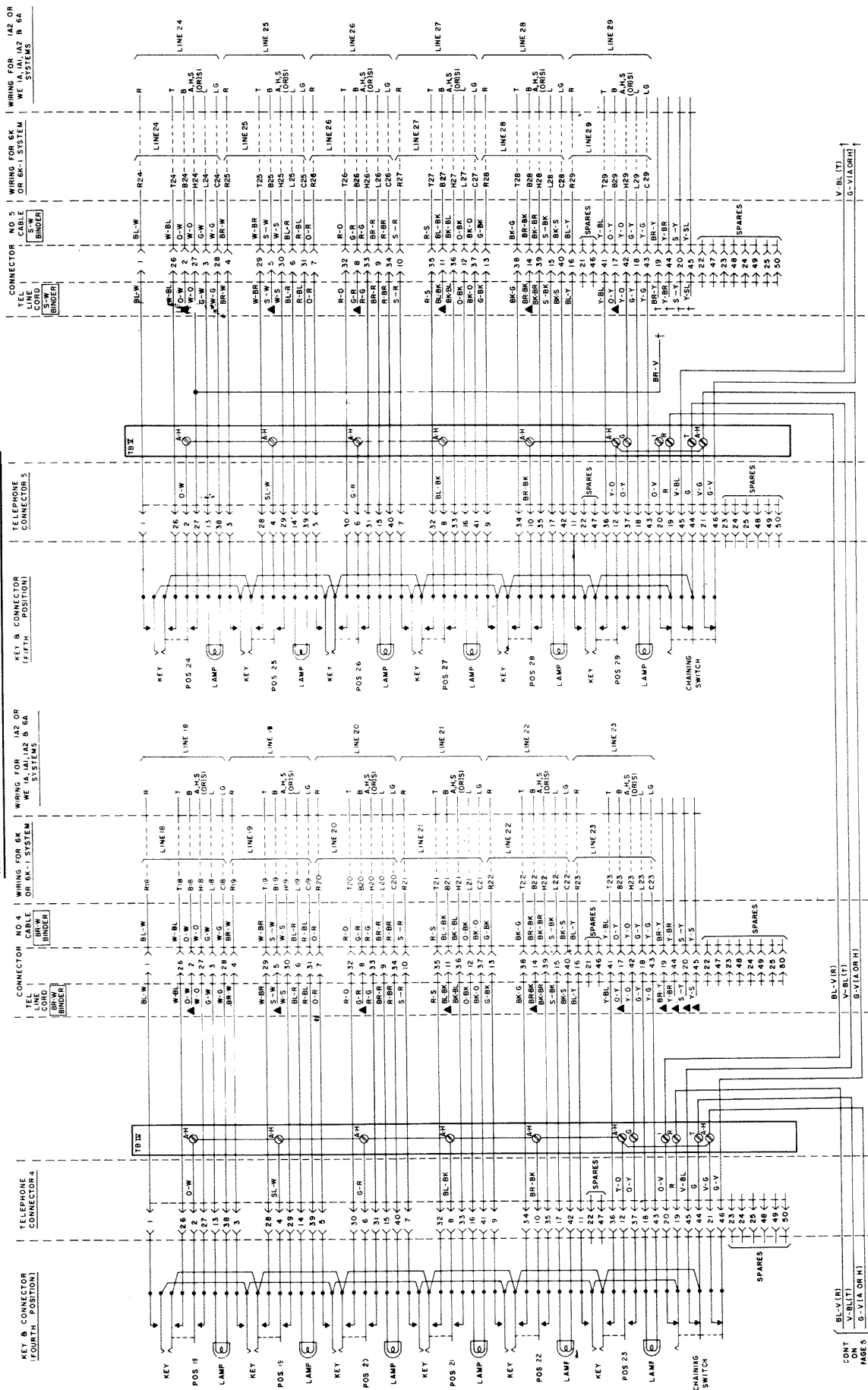
# WIRING DIAGRAM 2800-29B29(—) TELEPHONE



# WIRING DIAGRAM 1800/2800-29B29( ) II TELEPHONE



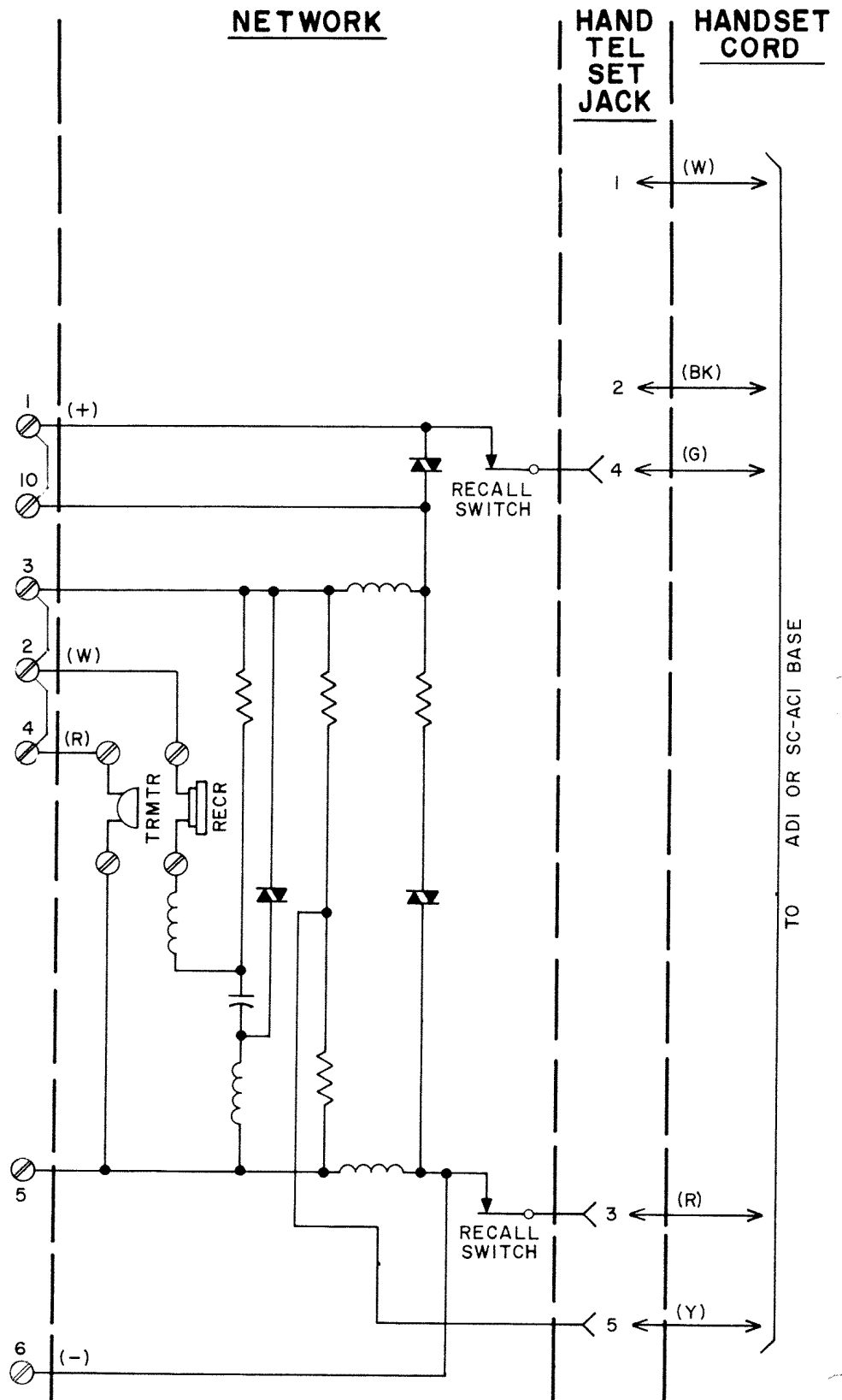
WIRING DIAGRAM 1800/2800-29B29( ) II TELEPHONE



# COMDIAL TELEPHONE SYSTEMS

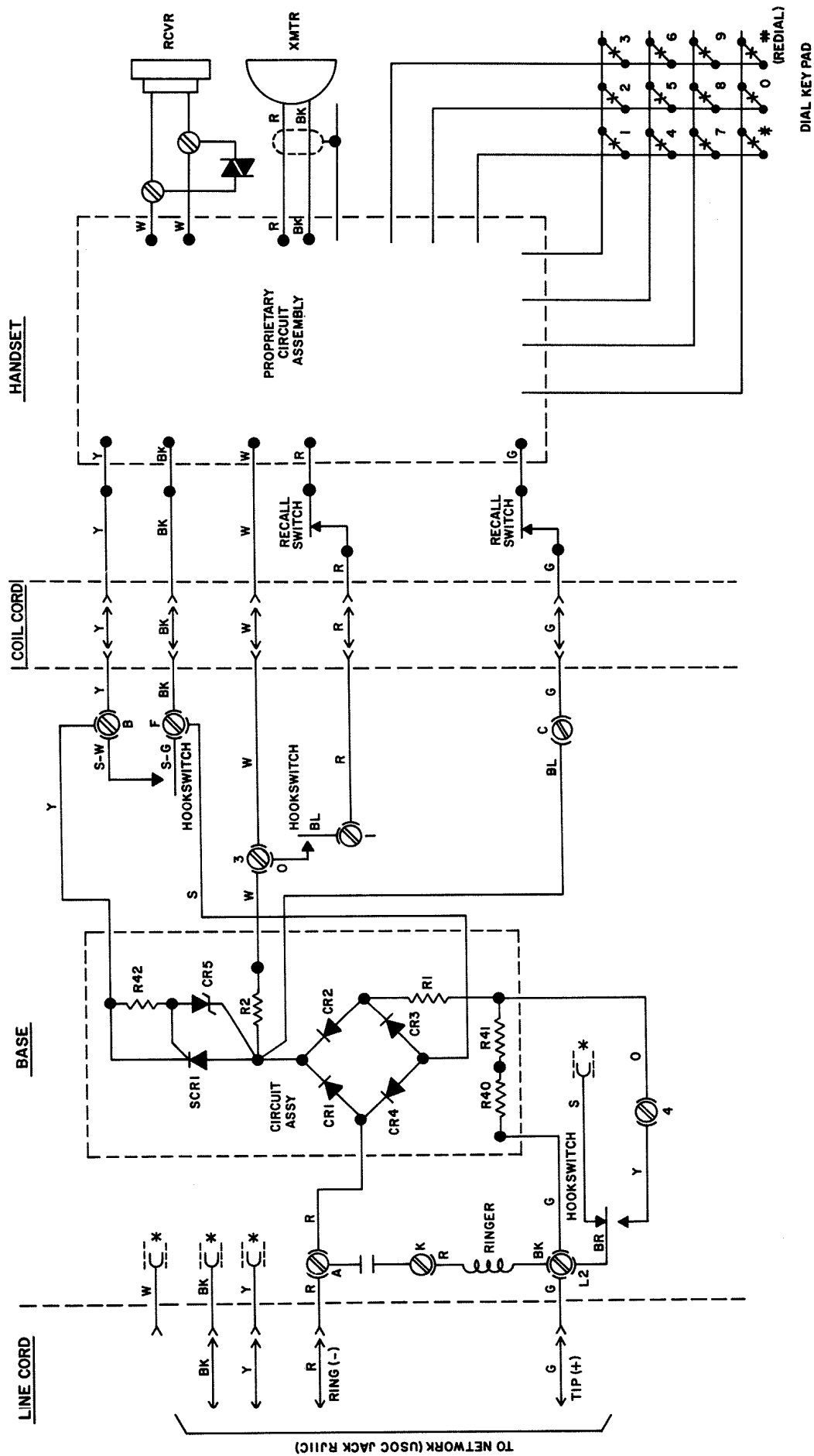
## 2220M CONNECTING DIAGRAM

(MANUAL)



703020-198 ISSUE NO. 2

ELECTRONIC SLENDERET  
PUSH-PULSE DIAL W/LAST NO. REDIAL



\* INSULATE AND STORE

703021-321 ISSUE NO. 2

**HRA 500B HANDSET  
SCHEDULE OF CONNECTIONS**

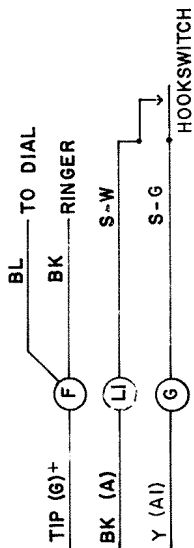
| Telephone Type              | Connect<br>Per<br>Group |
|-----------------------------|-------------------------|
| 500 & 1650 Series           | I                       |
| 2500 Series W/Term. Bd.     | II                      |
| 2500 Miniwall W/Term. Bd.   | II                      |
| 1704-3 1800-3               | III                     |
| 1704-3T 2800-3              | IV                      |
| 1714-3 1810-3               | I                       |
| 1714-3T 2810-3              | V                       |
| 1704-6 1800-5B5             | III                     |
| 1704-6T 2800-5B5            | IV                      |
| 1714-6 1800-5B5             | VI                      |
| 1714-6T 2800-5B5            | VII                     |
| 1706-6 1806-5B5             | III                     |
| 1706-6T 2806-5B5            | IV                      |
| 1716-6 1816-5B5             | VI                      |
| 1716-6T 2816-5B5            | VII                     |
| 0843                        | XII                     |
| 2843                        | XIII                    |
| 0842                        | XII                     |
| 2842                        | XIII                    |
| 0844                        | XII                     |
| 2844                        | XIII                    |
| 554 TD                      | 554                     |
| W/Term. Bd.                 | W/Term. Bd.             |
| 0864-42-46                  | I                       |
| 2864-42-46                  | IX                      |
| 0864-76                     | I                       |
| 2864-76                     | X                       |
| 0830-42-46                  | I                       |
| 2830-42-46                  | IX                      |
| 2854-42-46                  | IX                      |
| 0830-76                     | I                       |
| 2830-76                     | X                       |
| 0835                        | I                       |
| 2835                        | IX                      |
| 0831-42-46                  | I                       |
| 0831-76                     | I                       |
| 2831-76                     | X                       |
| 0862                        | XI                      |
| 2862                        | XI                      |
| 0861                        | XI                      |
| 2861                        | XI                      |
| 2831-42-46                  | IX                      |
| 554                         | I                       |
| 554 TD                      | II                      |
| 1704-12 (R) 1801-9B9        | III                     |
| 1704-12T (R) 2801-9B9       | IV                      |
| 1714-12 (R) 1811-9B9        | VI                      |
| 1714-12T (R) 2811-9B9       | VII                     |
| 1800-9B9                    | III                     |
| 2800-9B9                    | IV                      |
| 1810-9B9                    | I                       |
| 2810-9B9                    | VIII                    |
| 1800-11B11                  | III                     |
| 2800-11B11                  | IV                      |
| 1810-11B11                  | V                       |
| 2810-11B11                  | VII                     |
| 1800-17B17                  | I                       |
| 2800-17B17                  | VIII                    |
| 1800-29B29                  | I                       |
| 1802-5B5                    | III                     |
| 2802-5B5                    | IV                      |
| 554TD W/O Term. Bd.         | XIV                     |
| 2500 Series W/O Term. Bd.   | XIV                     |
| 2500 Miniwall W/O Term. Bd. | XIV                     |

|     | I                   | II                   | III                  | IV                   | V                    | VI                    | VII                   | VIII                | IX                  | X                   | XI                                                        | XII                             | XIII                           | XIV                 |
|-----|---------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|-----------------------------------------------------------|---------------------------------|--------------------------------|---------------------|
| HRA |                     |                      |                      |                      |                      |                       |                       |                     |                     |                     |                                                           |                                 |                                |                     |
| Y   | Network<br>Term. R  | Network<br>Term. R   | Term. Bd<br>Term. 23 | Term. Bd<br>Term. 2  | Network<br>Term. R   | Cradle Bd.<br>Term. 5 | Cradle Bd.<br>Term. 4 | Network<br>Term. L2 | Network<br>Term. R  | Network<br>Term. L1 | TERM. BD.<br>TERM.W(WITH<br>W STRAP<br>TO ROF<br>NETWORK) | Printed<br>Cct. Bd.<br>Term. R  | Printed<br>Cct. Bd.<br>Term. R | Network<br>Term. R  |
| G   | Network<br>Term. GN | Term. Bd<br>Term. 10 | Term. Bd<br>Term. 2  | Term. Bd<br>Term. 23 | Term. Bd<br>Term. 52 | Cradle Bd.<br>Term. 4 | Cradle Bd.<br>Term. 5 | Network<br>Term. GN | Network<br>Term. L1 | Network<br>Term. GN | TERM. BD.<br>TERM W<br>(WITH R<br>HOOKSWITCH<br>LEAD)     | Printed<br>Cct. Bd.<br>Term. GN | Term. Bd.<br>Term. 1           | Network<br>Term. E1 |
| R   | Network<br>Term. R  | Term. Bd<br>Term. 11 | Term. Bd<br>Term. 22 | Term. Bd<br>Term. 4  | Term. Bd<br>Term. 50 | Cradle Bd.<br>Term. 3 | Cradle Bd.<br>Term. 3 | Network<br>Term. L1 | Network<br>Term. L2 | Network<br>Term. L2 | Term. Bd.<br>Term. R                                      | Printed<br>Cct. Bd.<br>Term. R  | Term. Bd.<br>Term. 21          | Network<br>Term. E2 |
| B   | Network<br>Term. B  | Network<br>Term. B   | Term. Bd<br>Term. 3  | Term. Bd<br>Term. 3  | Network<br>Term. B   | Cradle Bd.<br>Term. 2 | Cradle Bd.<br>Term. 2 | Network<br>Term. B  | Network<br>Term. B  | Network<br>Term. B  | Term. Bd.<br>Term. B                                      | Printed<br>Cct. Bd.<br>Term. B  | Printed<br>Cct. Bd.<br>Term. B | Network<br>Term. B  |

**Note:**

In group VI and VII the cradle terminal board numbers refer to count from left hand side.

TELEPHONES WITH "A" LEAD CONTROL



501D SUPERIMPOSED RINGING  
RING PARTY (-) SHOWN

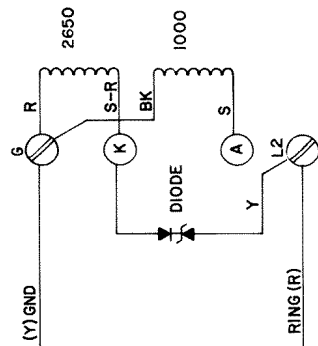


TABLE OF CONNECTIONS

| CLASS OF SERVICE | LINE |     | RING |    | DIOLE |   | HOOKSWITCH |      |
|------------------|------|-----|------|----|-------|---|------------|------|
|                  | RING | TIP | R    | S  | R     | S | S-W        | S-BR |
| TIP PARTY (+)    | L1   | L2  | G    | L2 | A     | K | L2         | G    |
| TIP PARTY (-)    | L1   | L2  | G    | L2 | A     | K | L2         | G    |
| RING PARTY (+)   | L2   | L1  | G    | L2 | A     | K | L2         | G    |
| RING PARTY (-)   | L2   | L1  | G    | L2 | A     | K | L2         | G    |

\* - LEAD OPPOSITE YELLOW MARK ON DIODE ASSEMBLY IS UNMARKED.

NOTE: TO SILENCE RINGER PERMANENTLY:

A. FOR ALL SERVICE EXCEPT 2650-Ω TIP PARTY IDENTIFICATION, DISCONNECT (R) RINGER LEAD, INSULATE AND STORE.

B. FOR 2650-Ω TIP PARTY IDENTIFICATION ONLY, DISCONNECT (BK) RINGER LEAD, INSULATE AND STORE.

NON MODULAR DESK PHONES HAVE BLACK LINE CORD LEAD STORED ON G.

NOTE: FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTER, TRANSFER (S-W) SWITCH LEAD FROM F TO RR ON NETWORK.

TABLE OF CONNECTIONS

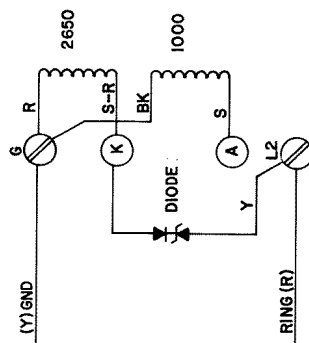
|                                  | LEAD COLOR | INDIVIDUAL OR BRIDGED | RING PARTY | TIP PARTY NO IDENT. | TIP PARTY IDENT. TO GRD. |          |
|----------------------------------|------------|-----------------------|------------|---------------------|--------------------------|----------|
|                                  |            |                       |            |                     | 1000 OHM                 | 2650 OHM |
| STRAIGHT LINE AND 16 THRU 20 CPS | R          | L2                    | L2         | L2                  | K                        | B        |
|                                  | BK         | L1                    | G          | G                   | G                        | B        |
|                                  | S          | K                     | K          | K                   | B                        | K        |
|                                  | S-R        | A                     | A          | A                   | B                        | G        |
| 25 THRU 66 2/3 CPS               | R          | L2                    | L2         | L2                  | A                        | G        |
|                                  | BK         | L1                    | G          | G                   | G                        | A        |
|                                  | S          | STORE                 | STORE      | STORE               | B                        | STORE    |
|                                  | S-R        | STORE                 | STORE      | STORE               | STORE                    | B        |
| HOOKSWITCH                       | S          | L2                    | L2         | L2                  | A                        | A        |
|                                  | S-W        | F                     | F          | F                   | C                        | C        |
|                                  | S-BR       | C                     | C          | C                   | F                        | F        |
|                                  | R          | L2                    | L2         | L2                  | L1                       | L1       |
| LINE                             | RING -     | G                     | L1         | L1                  | L2                       | L2       |
|                                  | TIP +      | Y BK                  | G          | G                   | G                        | G        |
|                                  | GRD        |                       |            |                     |                          |          |

\* + CONNECTOR AND JACK USED ON MODULAR PHONES ONLY.

**2508B PUSH BUTTON FOR GND. TRANSFER**



## RING PARTY (-) SHOWN



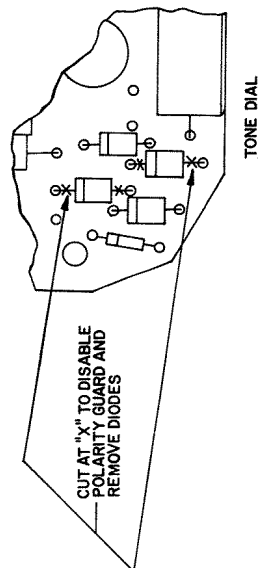
## TABLE OF CONNECTIONS

| CLASS OF SERVICE<br>SUPERIMPOSED | LINE |     |     | RINGER |   |     | DIODE |    | HOOKSWITCH + |      |   |
|----------------------------------|------|-----|-----|--------|---|-----|-------|----|--------------|------|---|
|                                  | RING | TIP | GRD | R      | S | S-R | Y     | *  | S-W          | S-BR |   |
| TIP PARTY (+)                    | L1   | L2  | G   | L2     | A | K   | L2    | G  | K            | C    | F |
| TIP PARTY (-)                    | L1   | L2  | G   | G      | A | K   | G     | L2 | K            | C    | F |
| RING PARTY (+)                   | L2   | L1  | G   | L2     | A | K   | L2    | G  | K            | F    | C |
| RING PARTY (-)                   | L2   | L1  | G   | G      | A | K   | G     | L2 | K            | F    | C |

\* -- LEAD OPPOSITE YELLOW MARK ON DIODE ASSEMBLY

†† - IF 35A3AP DIAL IS USED IT IS NOT NECESSARY TO CHANGE HOOKSWITCH LEADS.

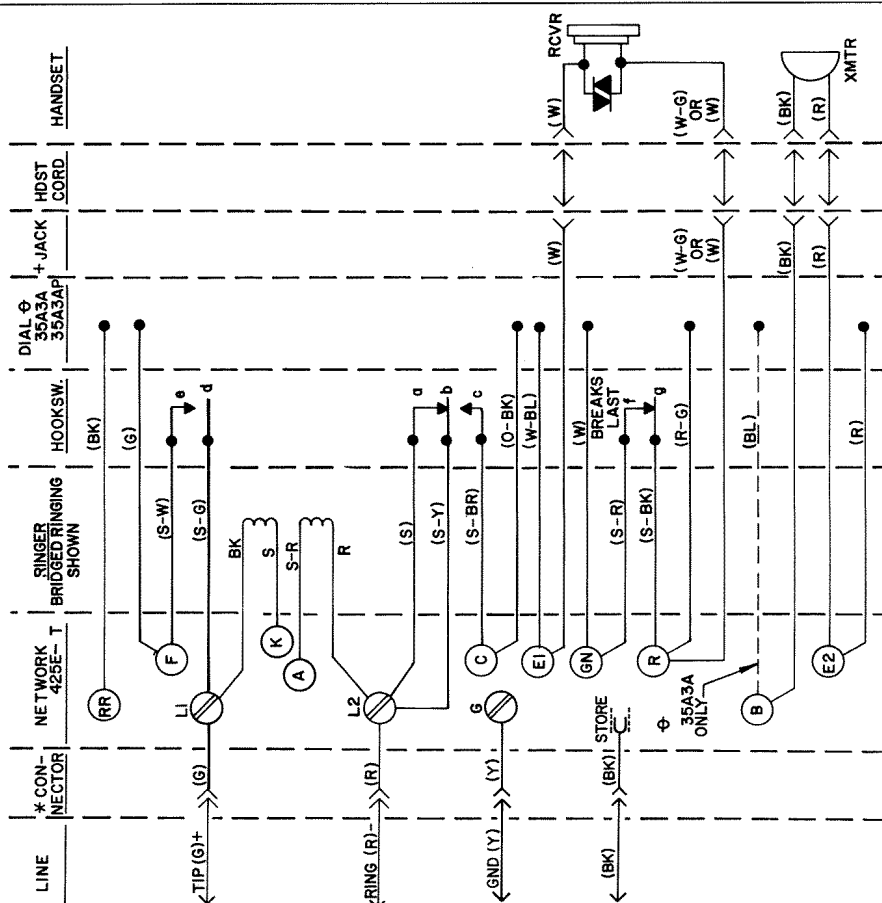
IF POLARITY GUARD IS NOT DESIRED, DISABLE AS SHOWN:



**NOTE: TO SILENCE RINGER PERMANENTLY:**

A. FOR ALL SERVICE EXCEPT 2S50Ω TIP PARTY IDENTIFICATION, DISCONNECT (R) RINGER LEAD, INSULATE AND STORE.

**B. FOR 2650 Ω TIP PARTY IDENTIFICATION ONLY, DISCONNECT (BK) RINGER LEAD, INSULATE AND STORE.**

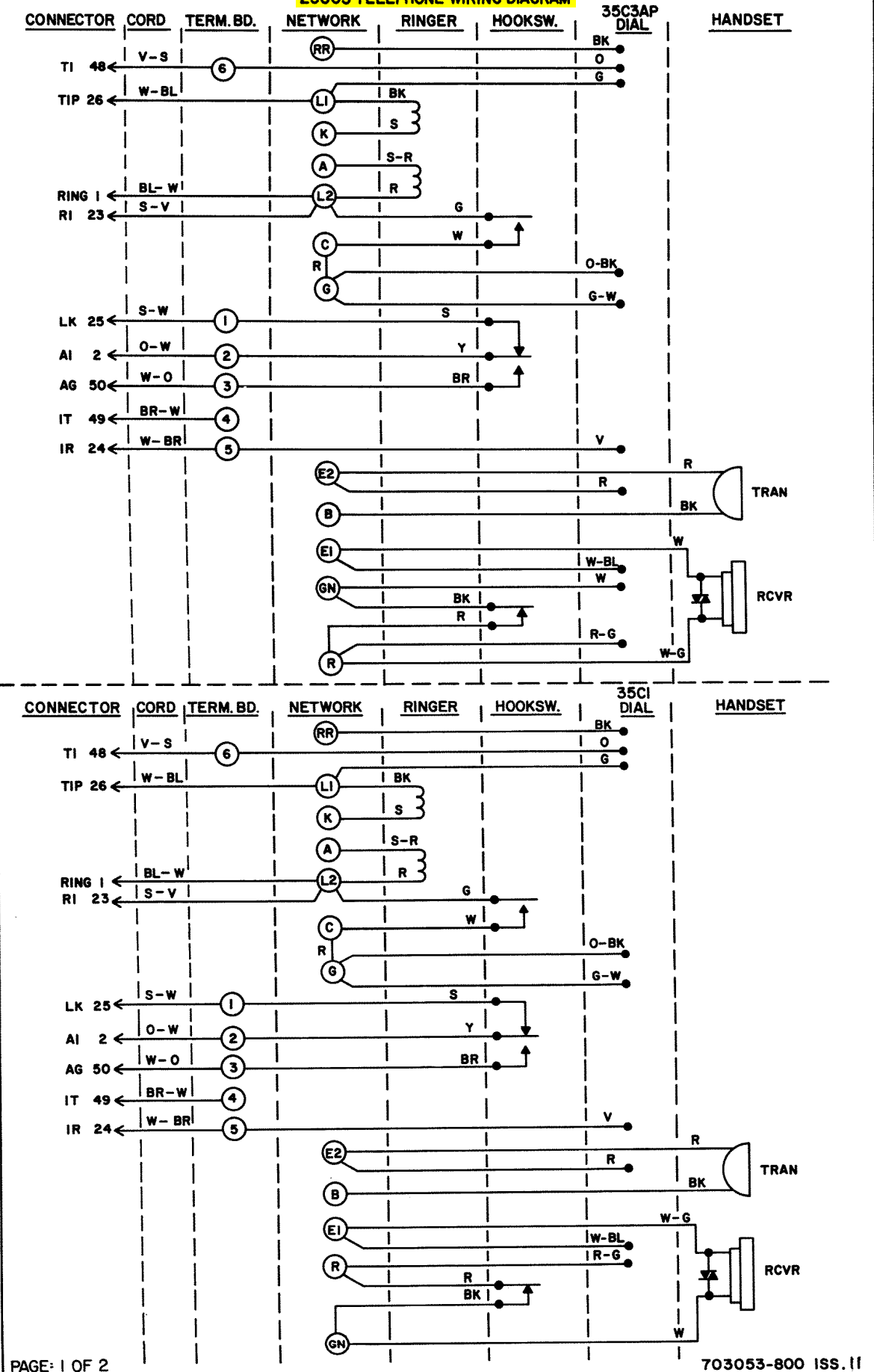


## TABLE OF CONNECTIONS

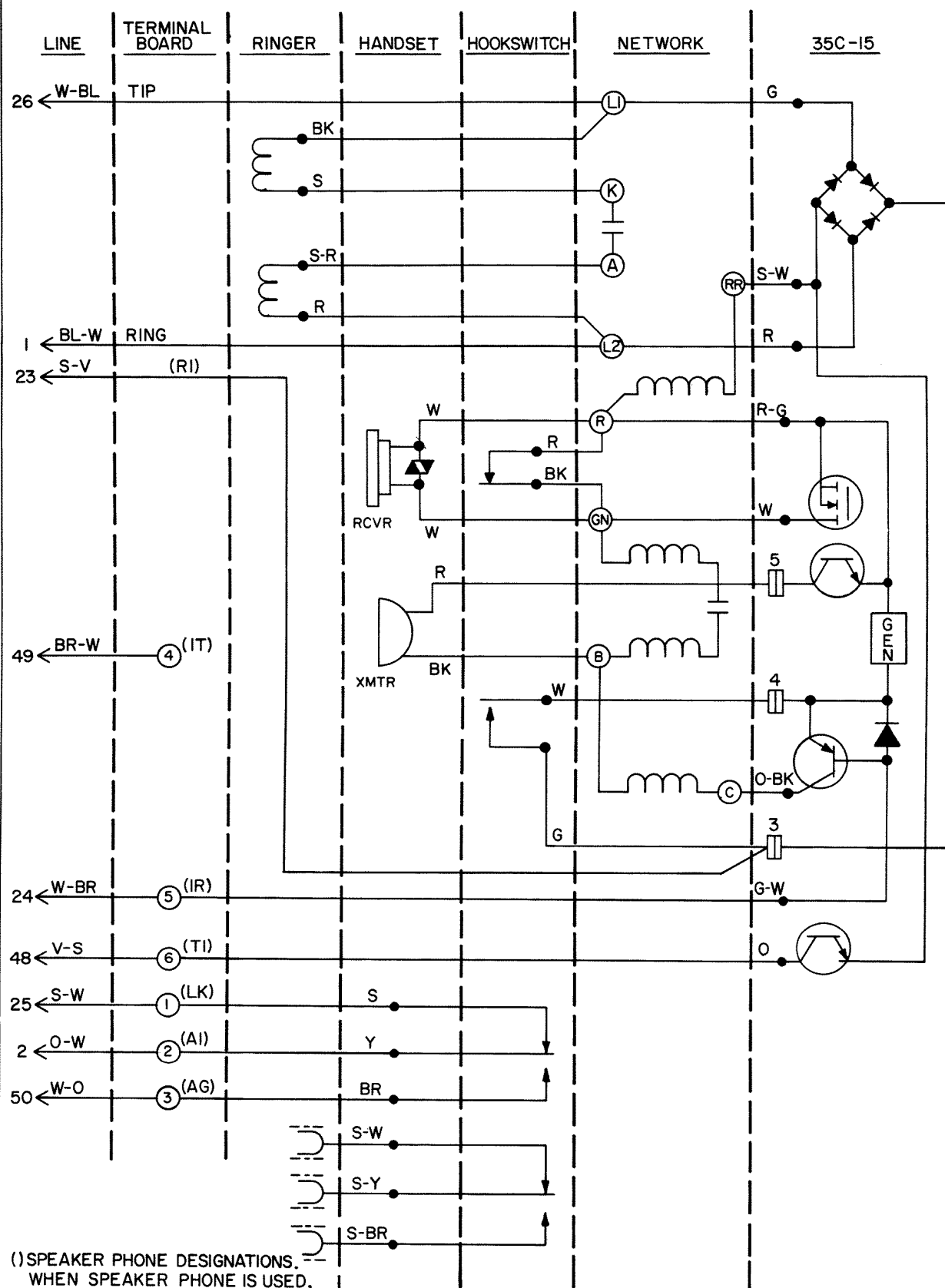
| LINE                                   | LEAD<br>COLOR | INDIVIDUAL<br>OR<br>BRIDGED | RING<br>PARTY | TIP PARTY<br>NO IDENT. | TIP PARTY IDENT. TO GRD. |          |
|----------------------------------------|---------------|-----------------------------|---------------|------------------------|--------------------------|----------|
|                                        |               |                             |               |                        | 1000 OHM                 | 2650 OHM |
| STRAIGHT LINE<br>AND<br>16 THRU 20 CPS | R             | L2                          | L2            | L2                     | K                        | B        |
|                                        | BK            | LI                          | G             | G                      | G                        | B        |
|                                        | S             | K                           | K             | K                      | B                        | K        |
|                                        | S-R           | A                           | A             | A                      | B                        | G        |
|                                        | R             | L2                          | L2            | L2                     | A                        | G        |
| 25 THRU 68 $\frac{2}{3}$ CPS           | BK            | LI                          | G             | G                      | G                        | A        |
|                                        | S             | STORE                       | STORE         | STORE                  | B                        | STORE    |
|                                        | S-R           | STORE                       | STORE         | STORE                  | STORE                    | B        |
|                                        | S             | L2                          | L2            | L2                     | A                        | A        |
|                                        | S-W           | F                           | F             | C                      | C                        | C        |
| HOOKSWITCH                             | S-BR          | C                           | C             | F                      | F                        | F        |
|                                        | R             | L2                          | L2            | LI                     | LI                       | LI       |
|                                        | G             | LI                          | LI            | L2                     | L2                       | L2       |
|                                        | TIP +         | G                           | G             | G                      | G                        | G        |
|                                        | GRD           | Y F BK                      |               |                        |                          |          |

\* + CONNECTOR AND JACK USED ON MODULAR PHONES ONLY.

# 2500S TELEPHONE WIRING DIAGRAM

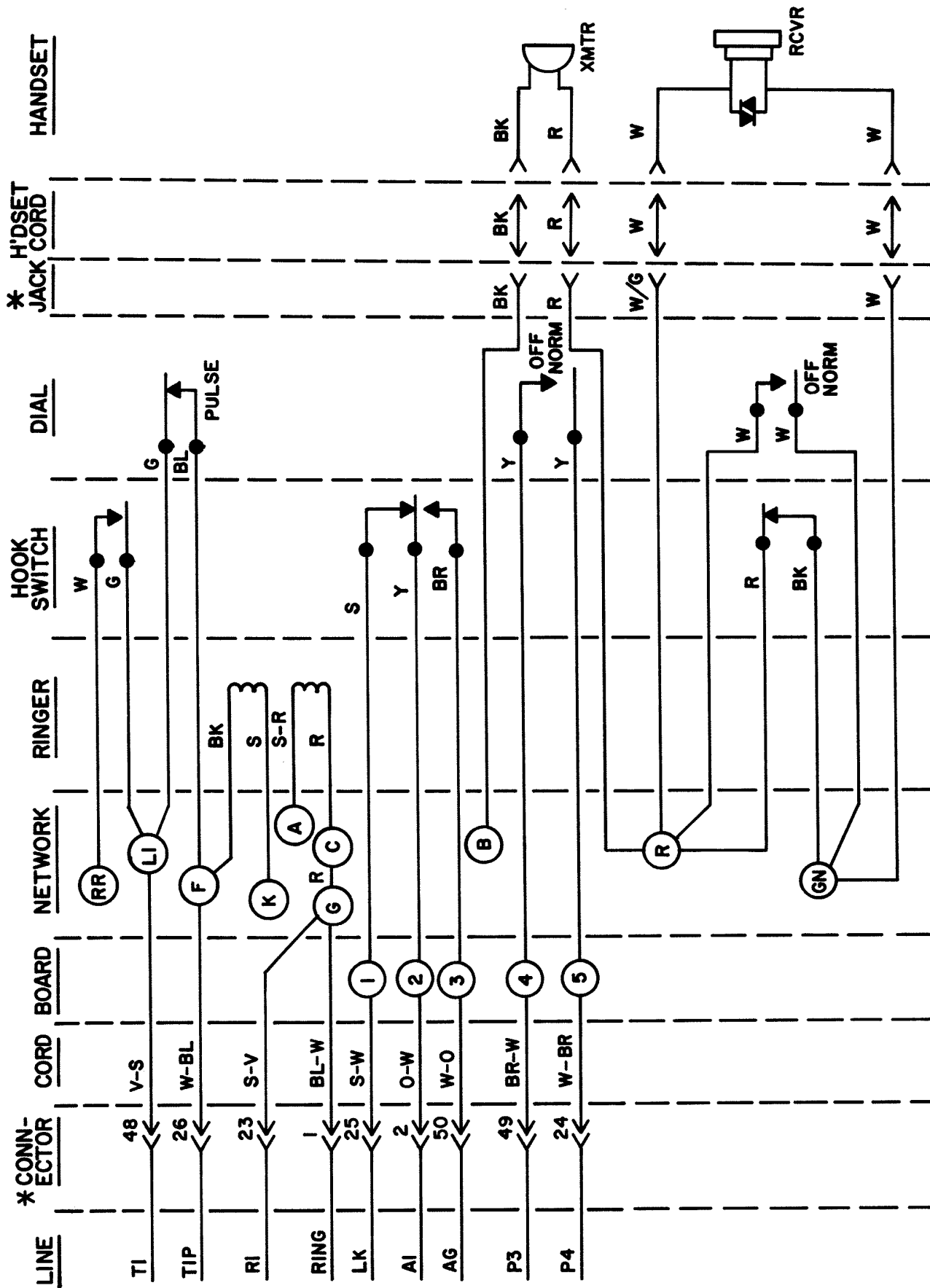


# 2500S TELEPHONE WIRING DIAGRAM



( ) SPEAKER PHONE DESIGNATIONS.  
WHEN SPEAKER PHONE IS USED,  
CONNECT STATIC SHIELD TO TERMINAL # 2.

# 500R,S TELEPHONE WIRING DIAGRAM



\*USED ONLY ON MODULAR SETS

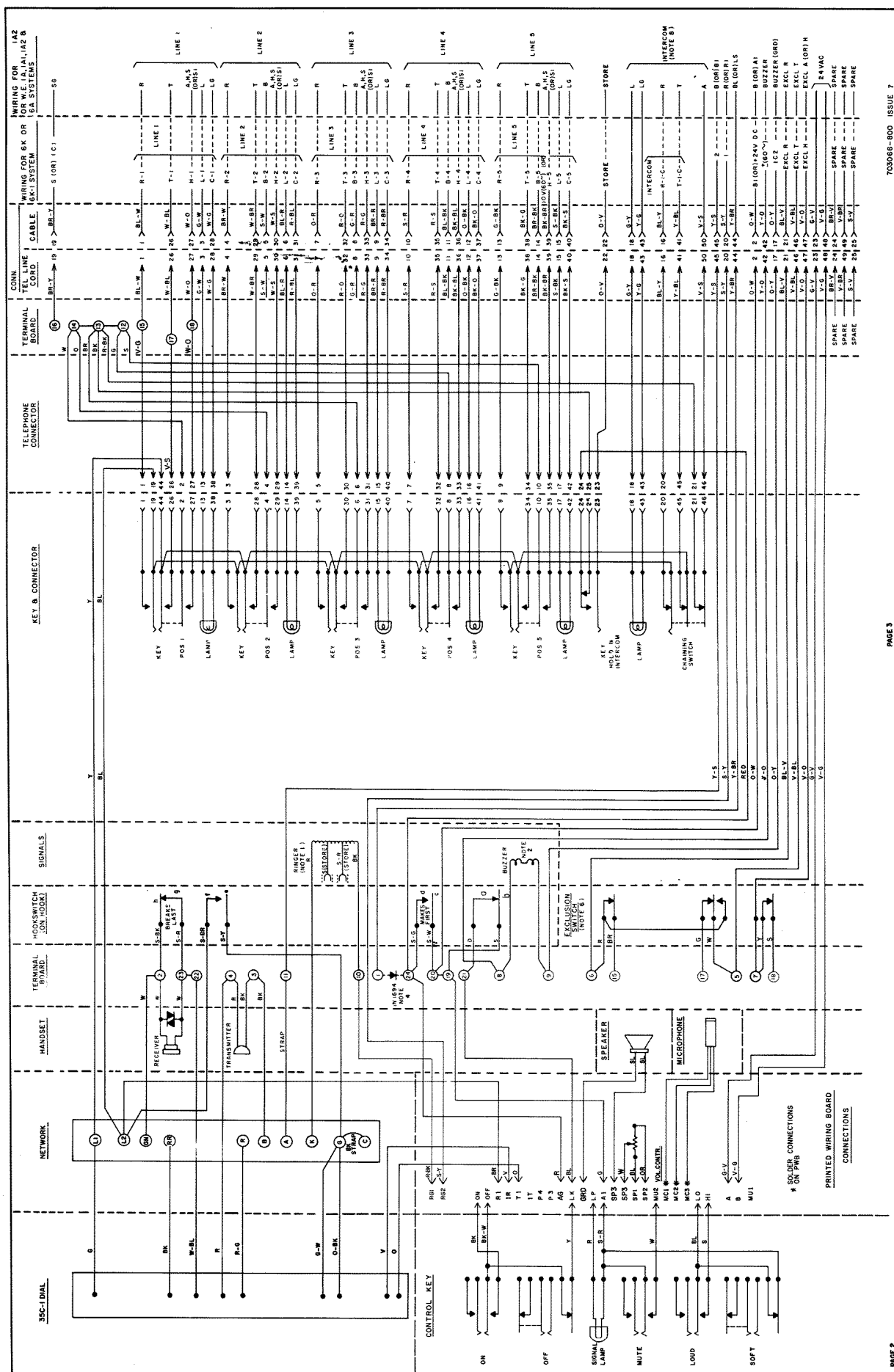
703053-900 ISSUE NO. 7

## COMDIAL 2802-5B5 TELEPHONE WIRING DIAGRAM

### NOTES:

1. When a COMMON SIGNAL is required using standard ringing voltage, the following options are available.
  - A. Series 20 straight line ringer. Order package assembly 702100-244 and wire as shown.
  - B. Series 20 ringer for 60 Hz. Order package assembly 702100-260. Connect black to terminal IO and red to terminal II. Do not wire in capacitor A-K.
  - C. Tone ringer. Order package assembly 202100-488 and wire per instruction sheet in package assembly using terminals IO and II.
2. When an INTERCOM BUZZER is required, the following options may be used.

"Q" buzzer. Mounted per instruction sheet 300981-191.
- 3.
4. When telephone is used with W.E. BUSY LAMP FIELD, move slate-green hookswitch wire from terminal 24 to 1 and add 1N1694 diode (part no. 202852-138) as shown.
5. When telephone is used with 1A2 BUSY STATION NUMBER DISPLAY, order diode package assembly 206286-451 and change wiring per instruction sheet in package assembly.
6. When MANUAL EXCLUSION feature is desired, order package assembly 703017-122 and wire as shown. Connect BL-V, V-BL and V-O conductors of cable to excluded line excluded stations.
7. When a KEY POSITION is used as a SIGNALING POSITION, remove screw from key plunger to make key position non-locking and make the following wiring change.
  - A. Position 1 - move white wire from terminal 14 to 16
  - B. Position 2 - move orange wire from terminal 14 to 16
  - C. Position 3 - move brown wire from terminal 13 to 16
  - D. Position 4 - move green wire from terminal 12 to 16
  - E. Position 5 - move slate wire from terminal 12 to 16
8. In 1A2 or W.E. 1A2 SYSTEM to provide intercom with all buttons released, connect T, R, A, L and LG to dial or manual intercom circuit as shown. 247B KTU is required when using telephone with dial intercom.
10. IF RINGER OPERATION IS DESIRED DURING LOUD SPEAKING TELEPHONE MODE, REMOVE S-Y LEAD FROM RG-2 TERMINAL AND CONNECT TO IO OF TERMINAL BOARD.



## INSTRUCTIONS FOR CONNECTING 24V AC TRANSFORMER

COMBIAL LOUD SPEAKING TELEPHONE REQUIRES AN EXTERNAL SOURCE OF 24 VOLT POWER TO OPERATE THE ELECTRONIC SECTION.

### CONNECTION OPTIONS:

#### 1. AT THE LINE CORD PLUG

THE 24 VOLTS A.C. MAY BE CONNECTED TO THE GREEN-VIOLET, VIOLET-GREEN LINE CORD ON TERMINALS 23 AND 48 OF THE TELEPHONE LINE CORD PLUG BY MEANS OF A 66E TERMINAL BLOCK.

#### 2. AT THE KEY SYSTEM

IF A PLUG ENDED HOUSE CABLE IS USED, MOUNT THE 24 A.C. VOLT TRANSFORMER NEAR THE KEY EQUIPMENT AND CONNECT TO THE GREEN-VIOLET, VIOLET-GREEN PAIR AT THE DISTRIBUTION PANEL.

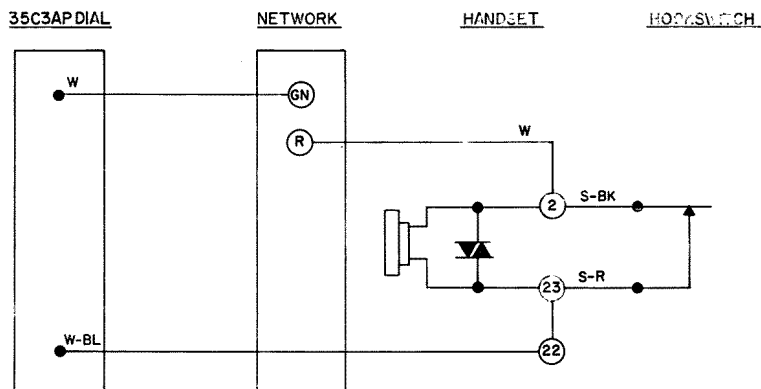
#### 3. AUXILIARY LINE CORD

IF THE KEY SYSTEM IS NOT ACCESSABLE, THE POWER MAY BE BROUGHT TO TERMINALS A AND B OF THE TELEPHONE PRINTED WIRING BOARD (LOCATED AT THE RIGHT REAR OF THE BOARD) USING AN AUXILIARY LINE CORD. DO NOT REMOVE THE WIRES ALREADY ON TERMINALS A AND B. TAPE THE AUXILIARY LINE CORD TO THE EXISTING CORD OR OTHERWISE PROVIDE STRAIN RELIEF.

THE 24 VOLT TRANSFORMER MAY BE SECURED BY PLACING ITS MOUNTING TAB UNDER THE CENTER SCREW OF A STANDARD DUPLEX OUTLET. TAKE CARE NOT TO SHORT CIRCUIT THE 24 VOLT OUTPUT AFTER THE TRANSFORMER IS PLUGGED IN.

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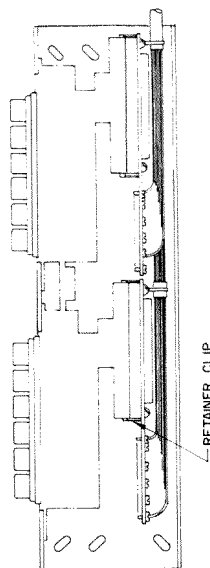
TELEPHONES EQUIPPED WITH 35C3AP DIALS CONNECT AS SHOWN ON PAGE 2 EXCEPT AS SHOWN BELOW.



## MOUNTING INSTRUCTIONS

### NOTES:

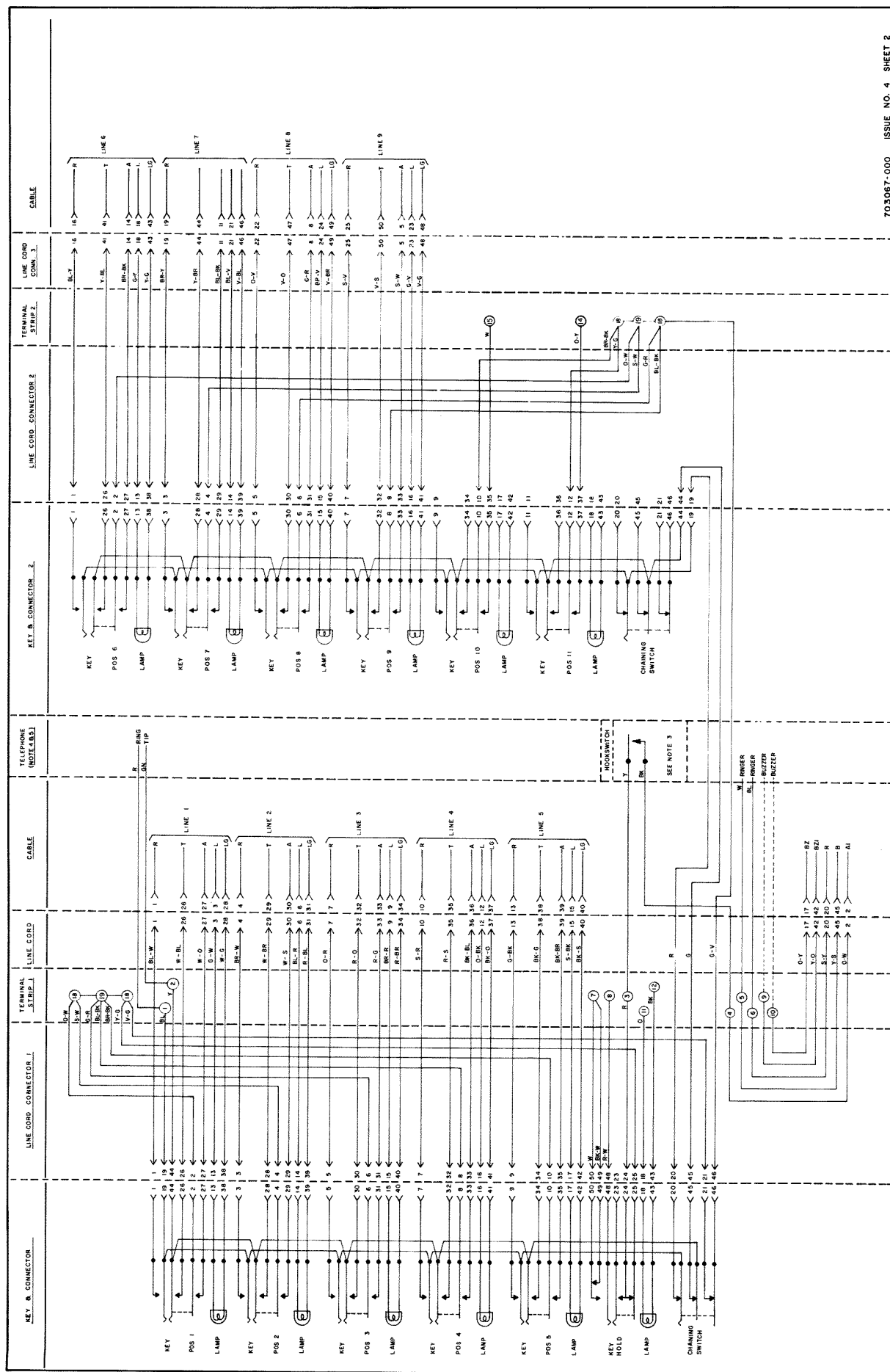
1. REMOVE COVER AND KEY ASSEMBLIES FROM FRAME, MOUNT FRAME IN DESIRED LOCATION.
2. ASSEMBLY LINE CORD CONNECTOR/TERMINAL BOARD TO KEY ASSEMBLY CONNECTOR, BE SURE THAT THE RETAINER CLIPS CLAMP OVER THE KEY ASSEMBLY CONNECTOR FRAME.
3. MOUNT KEYS AND LINE CORD ASSEMBLY INTO FRAME (KEYS MAY MOUNT EITHER WAY IN FRAME).
4. REMOVE DESIRED LINE CORD KNOCKOUT FROM HOUSING AND ASSEMBLE HOUSING TO KEY FRAME.



## COMDIAL TELEPHONE WIRING DIAGRAM FOR 10 BUTTON KEYSET ACCESSORY BOX

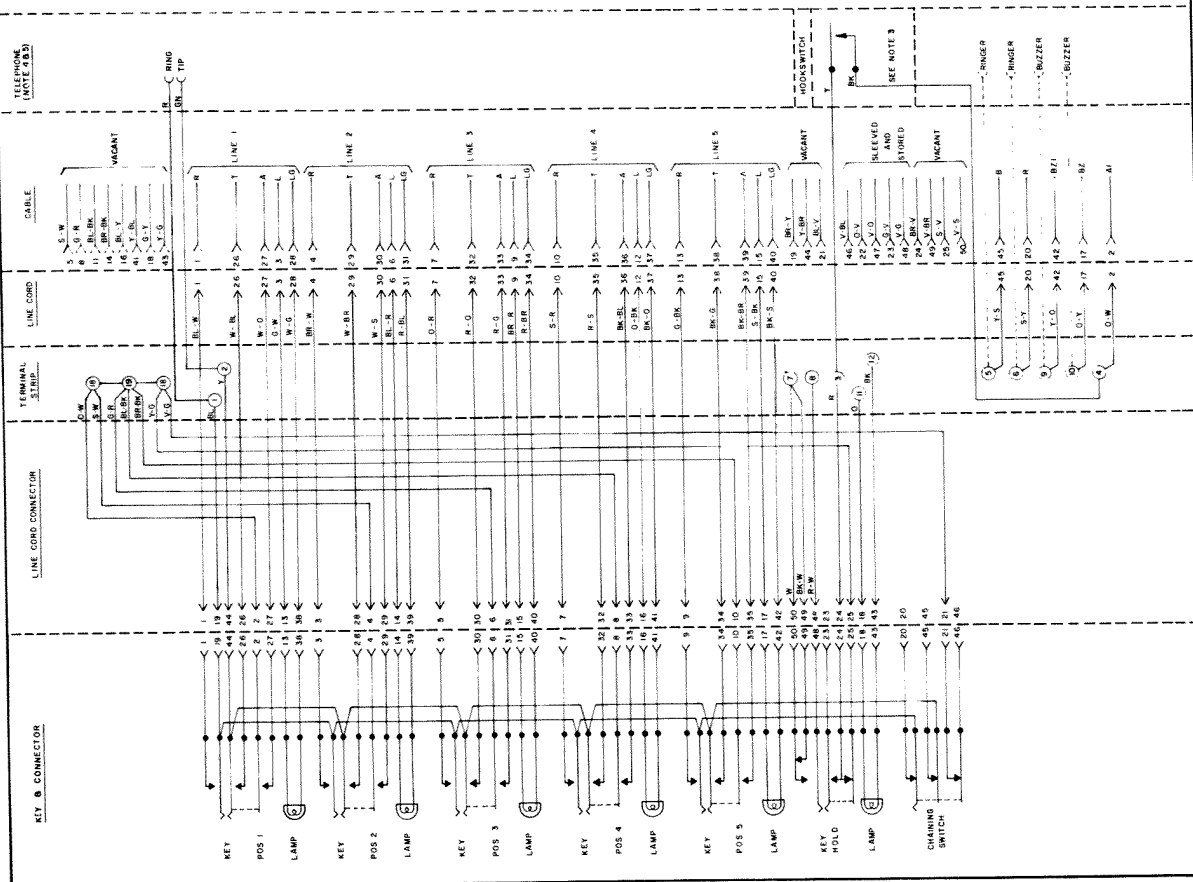
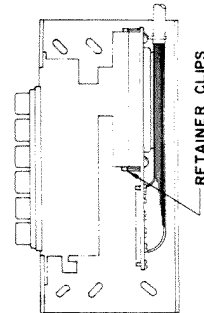
### NOTES:

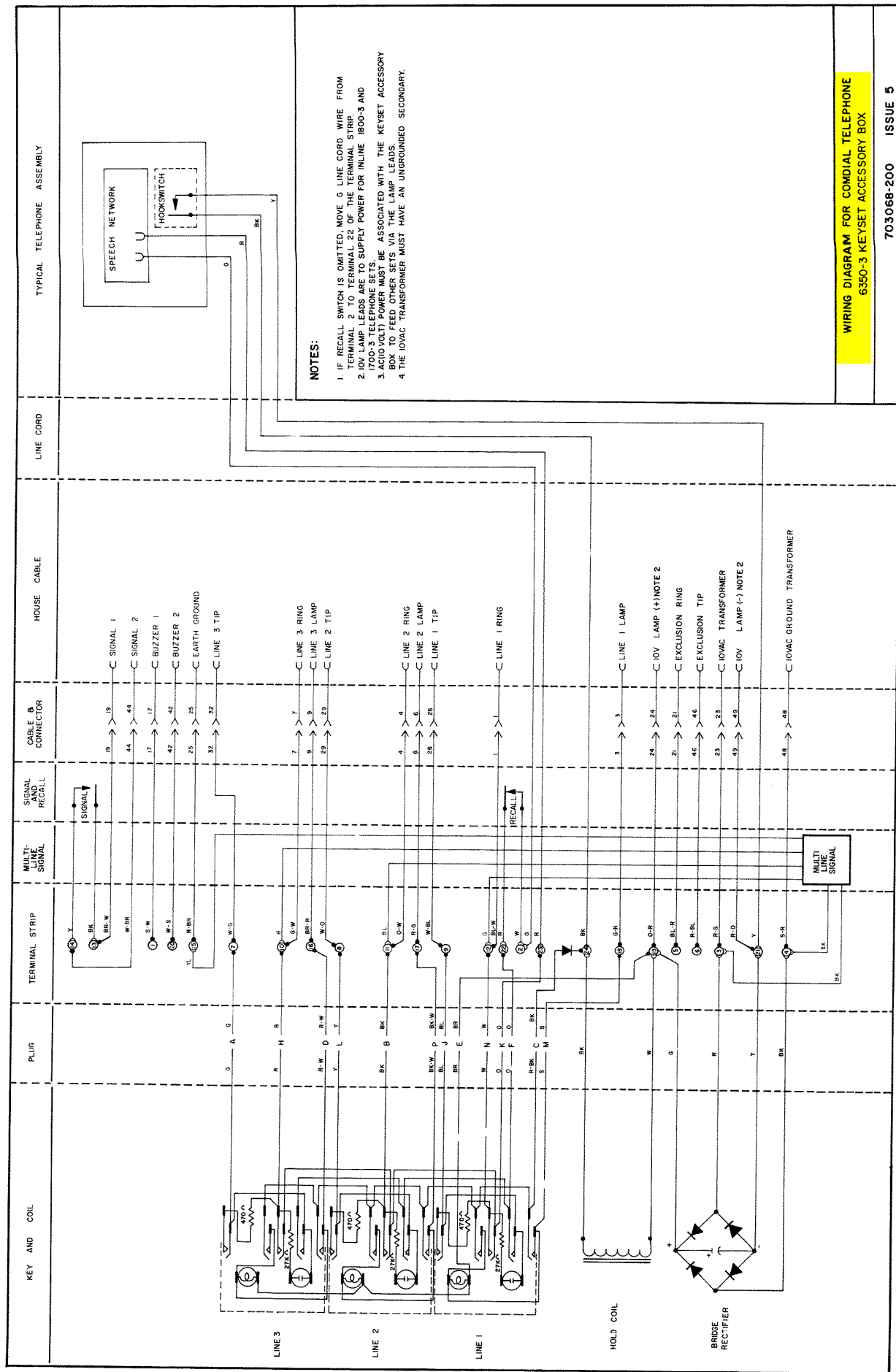
1. DUE TO LIMITED NUMBER OF LINE CORD CONDUCTORS THESE TELEPHONE SETS DO NOT FOLLOW STANDARD WIRING ARRANGEMENT. MOST OPTIONS ARE AVAILABLE ONLY BY USING THE LINE CORD LEADS PRESENTLY DESIGNATED AS BZ AND BZ1. IF BOTH BUZZER AND RINGER ARE DESIRED, GROUNDS MAY BE COMMON USING SLATE YELLOW LINE CORD LEAD.
2. OPTIONS AVAILABLE:
  - A. TO PROVIDE LINE CORD LEADS FOR ILLUMINATING THE HOLD BUTTON THE BZ AND BZ1 LEADS MAY BE MOVED TO TERMINALS 11 AND 12 OF TERMINAL STRIP 1.
  - B. TO CONVERT KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS TO TERMINAL 3 ON TERMINAL STRIP.
  - C. KEY POSITION 10 OR 11 MAY BE USED FOR SIGNALING OR GROUND TRANSFER FOR SIGNALING PROCEED AS IN "B" ABOVE FOR GROUND TRANSFER MOVE "A" LEAD FROM TERMINAL 14 OR 15 TO TERMINAL 1.
  - D. EACH SET IS PROVIDED WITH 2 BLOCKING RINGS TO PREVENT OPERATION OF UNUSED KEY BUTTONS.
3. FREE ONE SET OF MAKE CONTACTS ON THE HOOKSWITCH, AND CONNECT TO (BLACK) A1 LEAD AND (YELLOW) HOLD KEY A LEAD. MAKE SURE THAT THIS SET OF CONTACTS MAKE BEFORE LINE CONTACTS MAKE WHEN GOING OFF HOOK.
4. IF MORE TIE POINTS ARE REQUIRED IN THE TELEPHONE SET ORDER APPROPRIATE TERMINAL BOARD PACKAGE ASSEMBLY.
5. IF SIX CONDUCTOR TELEPHONE SET LINE CORD IS REQUIRED, ORDER APPROPRIATE PACKAGE ASSEMBLY.



# COMDIAL TELEPHONE WIRING DIAGRAM FOR 6 BUTTON KEYSET ACCESSORY BOX

- NOTES:
1. DUE TO LIMITED NUMBER OF LINE CORD CONDUCTORS THESE TELEPHONE SETS DO NOT FOLLOW STANDARD WIRING ARRANGEMENT. MOST OPTIONS ARE AVAILABLE ONLY BY USING THE LINE CORD LEADS PRESENTLY DESIGNATED AS BZ AND BZ1. IF BOTH BUZZER AND RINGER ARE DESIRED, GROUNDS MAY BE COMMON USING SLATE YELLOW LINE CORD LEAD.
  2. OPTIONS AVAILABLE:
    - A. TO PROVIDE LINE CORD LEADS FOR ILLUMINATING THE HOLD BUTTON THE BZ AND BZ1 LEADS MAY BE MOVED TO TERMINALS 9 AND 12.
    - B. TO CONVERT KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS TO TERMINAL 3 ON TERMINAL STRIP.
  3. FREE ONE SET OF MAKE CONTACTS ON THE HOOKSWITCH, AND CONNECT TO (BLACK) AI LEAD AND (YELLOW) HOLD KEY A LEAD. MAKE SURE THAT THIS SET OF CONTACTS MAKE BEFORE LINE CONTACTS MAKE WHEN GOING OFF HOOK.
  4. IF MORE TIE POINTS ARE REQUIRED IN THE TELEPHONE SET ORDER APPROPRIATE TERMINAL BOARD PACKAGE ASSEMBLY.
  5. IF FOUR CONDUCTOR TELEPHONE SET LINE CORD IS REQUIRED, ORDER APPROPRIATE PACKAGE ASSEMBLY.
- ## MOUNTING INSTRUCTIONS
- NOTES:
1. REMOVE COVER AND KEY ASSEMBLY FROM FRAME, MOUNT FRAME IN DESIRED LOCATION.
  2. ASSEMBLY LINE CORD CONNECTOR/TERMINAL BOARD TO KEY ASSEMBLY CONNECTOR, BE SURE THAT THE RETAINER CLIPS CLAMP OVER THE KEY ASSEMBLY CONNECTOR FRAME.
  3. MOUNT KEY AND LINE CORD ASSEMBLY INTO FRAME (KEY MAY MOUNT EITHER WAY IN FRAME).
  4. REMOVE DESIRED LINE CORD KNOCKOUT FROM HOUSING AND ASSEMBLE HOUSING TO KEY FRAME.

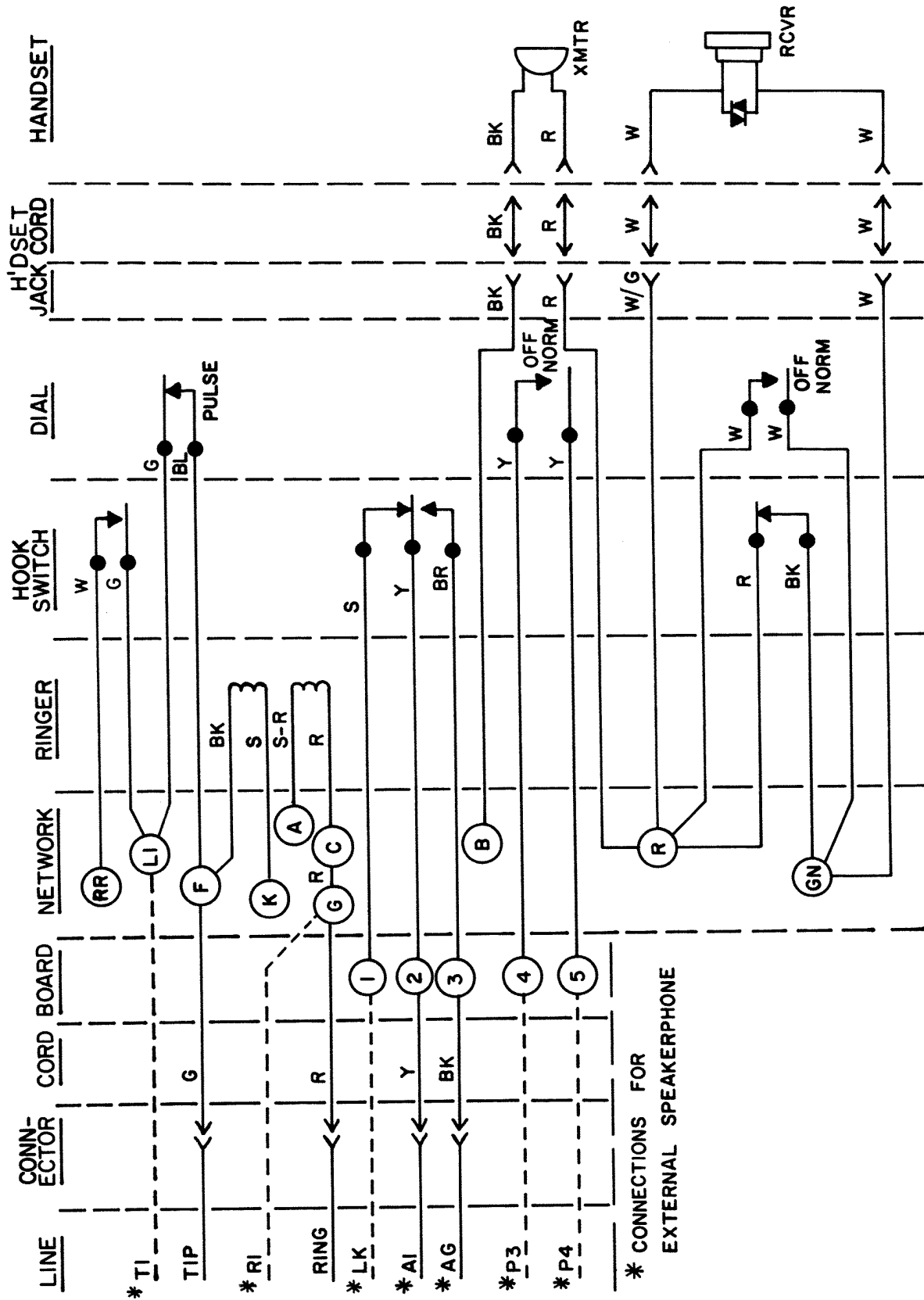




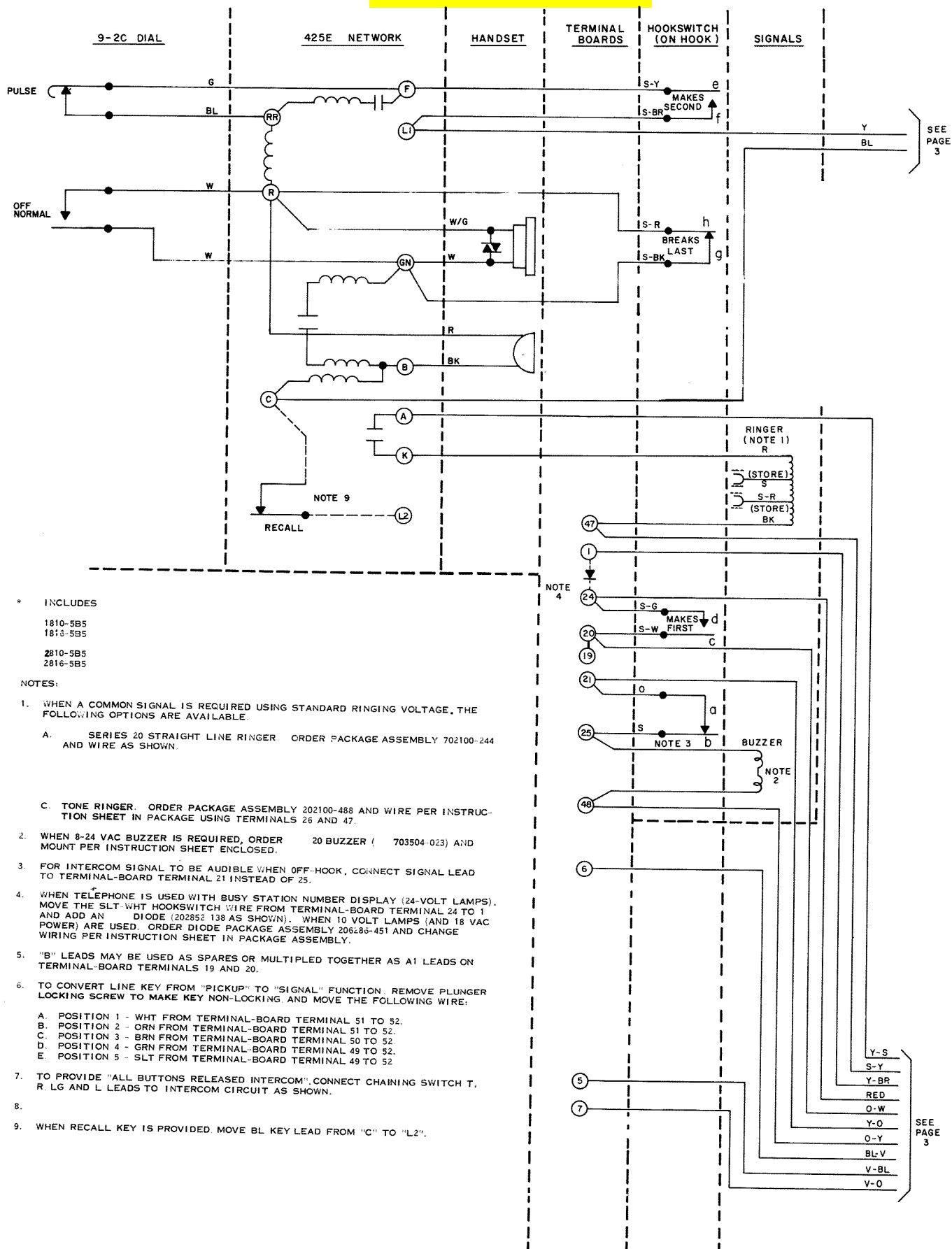
WIRING DIAGRAM FOR COMDIAL TELEPHONE  
6350-3 KEYSET ACCESSORY BOX

703068-200 ISSUE 5

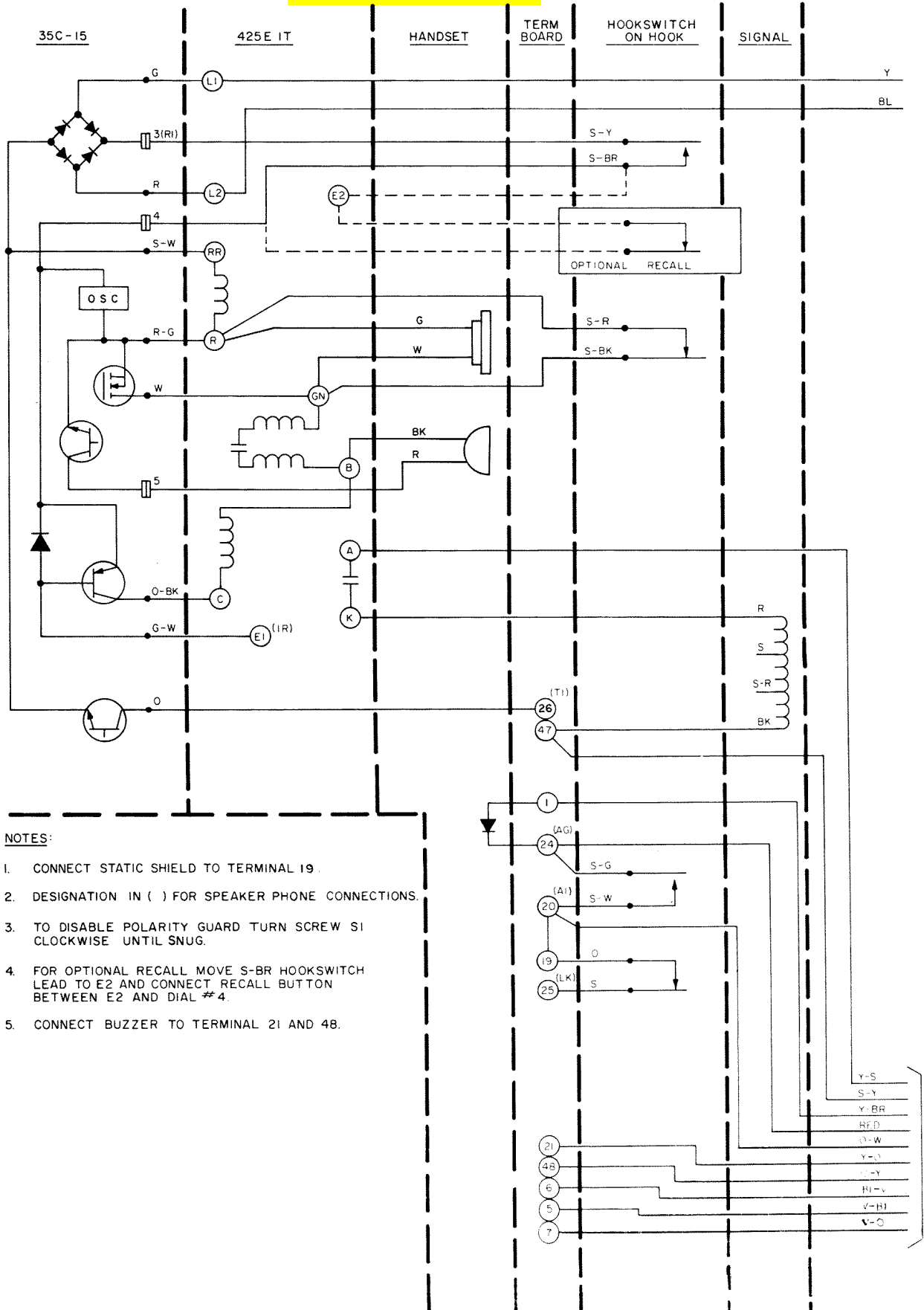
# 500R, S TELEPHONE WIRING DIAGRAM



\* CONNECTIONS FOR  
EXTERNAL SPEAKERPHONE

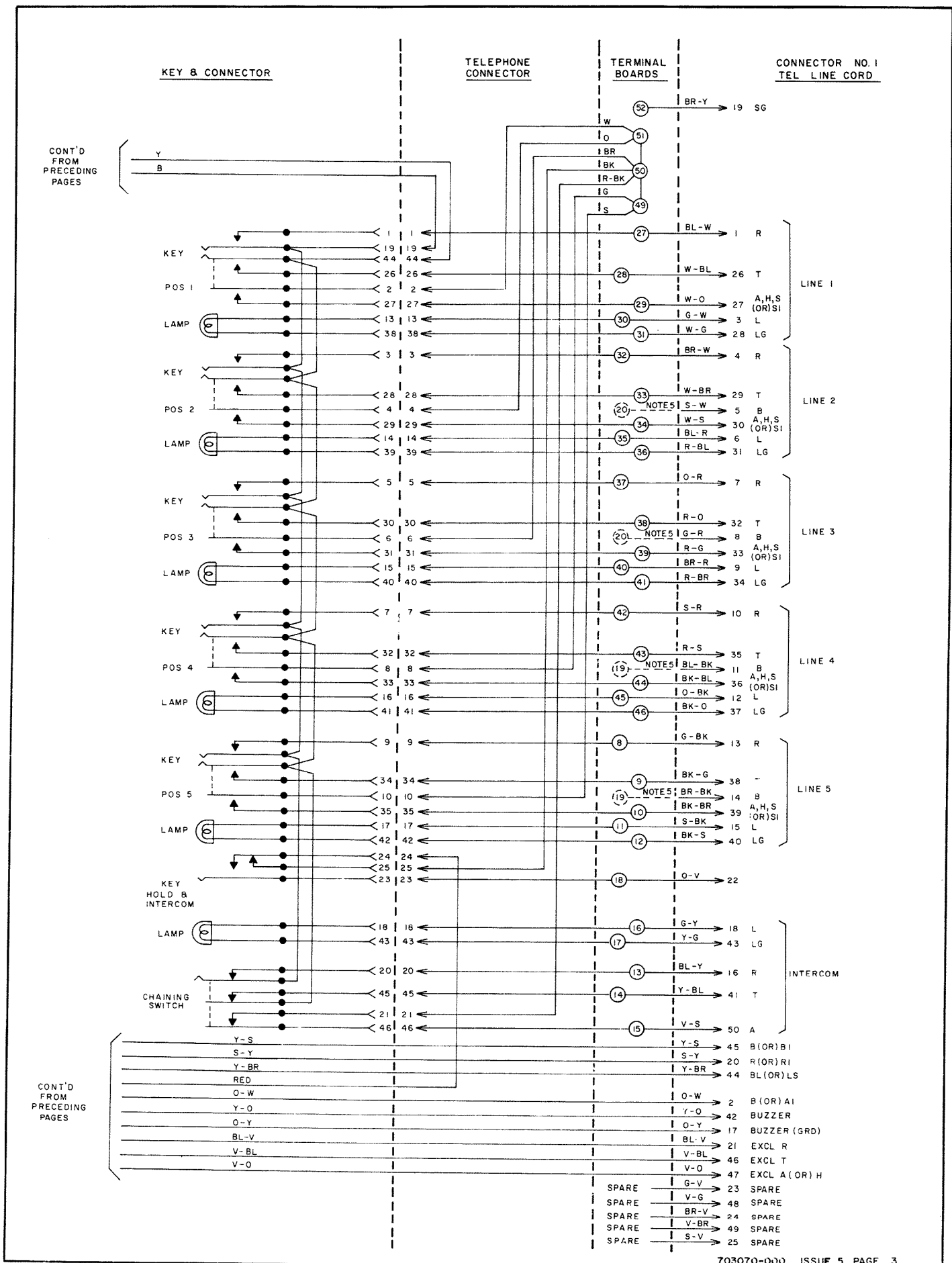


# 2810 SERIES TELEPHONE



## NOTES:

1. CONNECT STATIC SHIELD TO TERMINAL 19.
2. DESIGNATION IN ( ) FOR SPEAKER PHONE CONNECTIONS.
3. TO DISABLE POLARITY GUARD TURN SCREW S1 CLOCKWISE UNTIL SNUG.
4. FOR OPTIONAL RECALL MOVE S-BR HOOKSWITCH LEAD TO E2 AND CONNECT RECALL BUTTON BETWEEN E2 AND DIAL #4.
5. CONNECT BUZZER TO TERMINAL 21 AND 48.

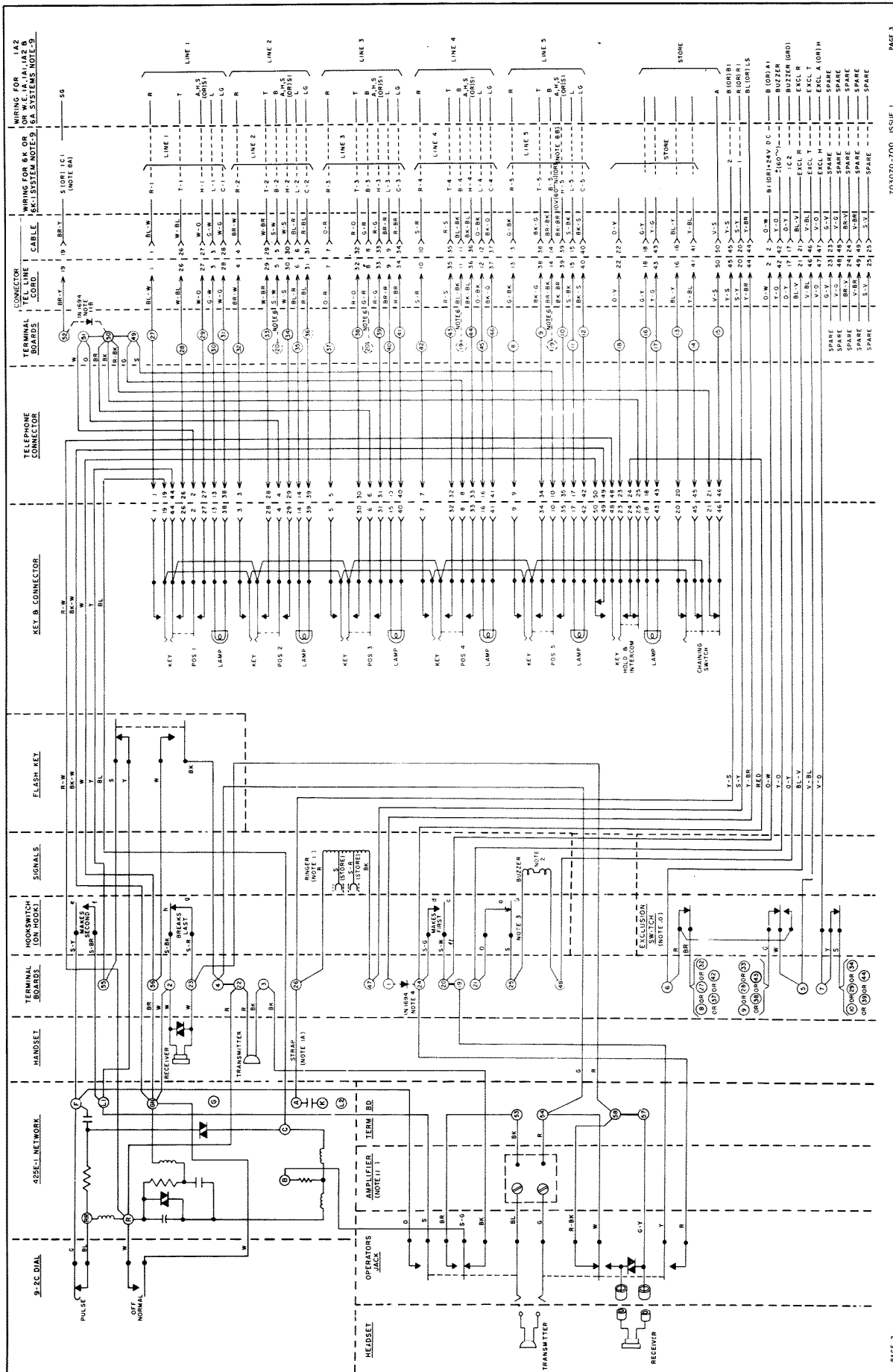


## COMDIAL 1807-5B5 TELEPHONE WIRING DIAGRAM

### NOTES:

1. When a COMMON SIGNAL is required using standard ringing voltage, the following options are available.
  - A. Series 20 straight line ringer. Order package assembly 702100-244, and wire as shown. Exception-when capacitor is required to block D.C. from ringer, connect red ringer wire to network terminal K and strap terminal 26 to network terminal A.
  - B. Series 20 ringer for 60 Hz. Order package assembly 702100-260. Connect black wire to terminal 47 and red wire to terminal 26. Do not wire in capacitor A-K.
  - C. Tone ringer. Order package assembly 202100-621 and wire per instruction sheet in package assembly using terminals 26 and 47.
  - D. 2 A buzzer. Order package assembly 206014-621. Connect red wire to terminal 47 and brown wire to terminal 26.
2. When an INTERCOM BUZZER is required, the following options may be used.
  - A. Type 7 (A.C. or D.C.) buzzer. Requires mounting plate package assembly 206289-671.
  - B. "Q" buzzer. Mounted per instruction sheet 300981-191.
3. For INTERCOM BUZZER to be audible when off-hook, move buzzer lead from terminal 25 to 21.
4. When telephone is used with W.E. BUSY LAMP FIELD, move slate-green hookswitch wire from terminal 24 to 1 and add 1 IN1694 diode part no. 202852-138 as shown.
5. When telephone is used with 1A2 BUSY STATION NUMBER DISPLAY, order diode package assembly 206286-451 and change wiring per instruction sheet in package assembly.
6. When "B" LEADS are NOT REQUIRED, "B" lead wires may be used as spares or multiplied together as A1 leads on terminals 19 and 20.
7. When a KEY POSITION is used as a SIGNALING POSITION, remove screw from key plunger to make key position non-locking and make the following wiring change.
  - A. Position 1 - move white wire from terminal 51 to 52.
  - B. Position 2 - move orange wire from terminal 51 to 52.
  - C. Position 3 - move brown wire from terminal 50 to 52.
  - D. Position 4 - move green wire from terminal 49 to 52.
  - E. Position 5 - move slate wire from terminal 49 to 52.
8. To use telephone with 6K-1 SYSTEM.
  - A. Strap terminals IC1 and IC2.
  - B. When position 5 is used as line 5 connect BK-BR to H5. When position 5 is used as a signaling position connect to 10V (60 ~ NI) and remove screw from key plunger to make key position non-locking.
9. To convert telephone for use with 6K or W.E. 1A SYSTEMS, the following changes are required. (No changes are required for 6K-1 or W.E. 1A1 Systems).

|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>A. Remove all wires except yellow from terminals 19 and 20 and store.</li><li>B. Move slate-yellow hookswitch wire from terminal F to 19.</li><li>C. Move white key wire from terminal GN to 20.</li><li>D. Move black-white key wire from terminal GN to F.</li></ol> | <ol style="list-style-type: none"><li>E. Remove black key wire from terminal 50 and store.</li><li>F. Move red-white key wire from terminal R to 50.</li><li>G. Remove orange wire from terminal F, slate wire from terminal L1 and store. Move red operators jack wire from terminal 24 to L1.</li></ol> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
10. When MANUAL EXCLUSION feature is desired, order package assembly 206289-781 and wire as shown. Use terminals 27, 28 and 29 for exclusion on line 1; 32, 33 and 34 for exclusion on line 2; 37, 38 and 39 for exclusion on line 3; 42, 43 and 44 for exclusion on line 4; or 8, 9 and 10 for exclusion on line 5. Connect BL-V, V-BL and V-O conductors of cable to excluded line of excluded stations.
11. AMPLIFIER is required when headset is used. Order package assembly 206290-761.

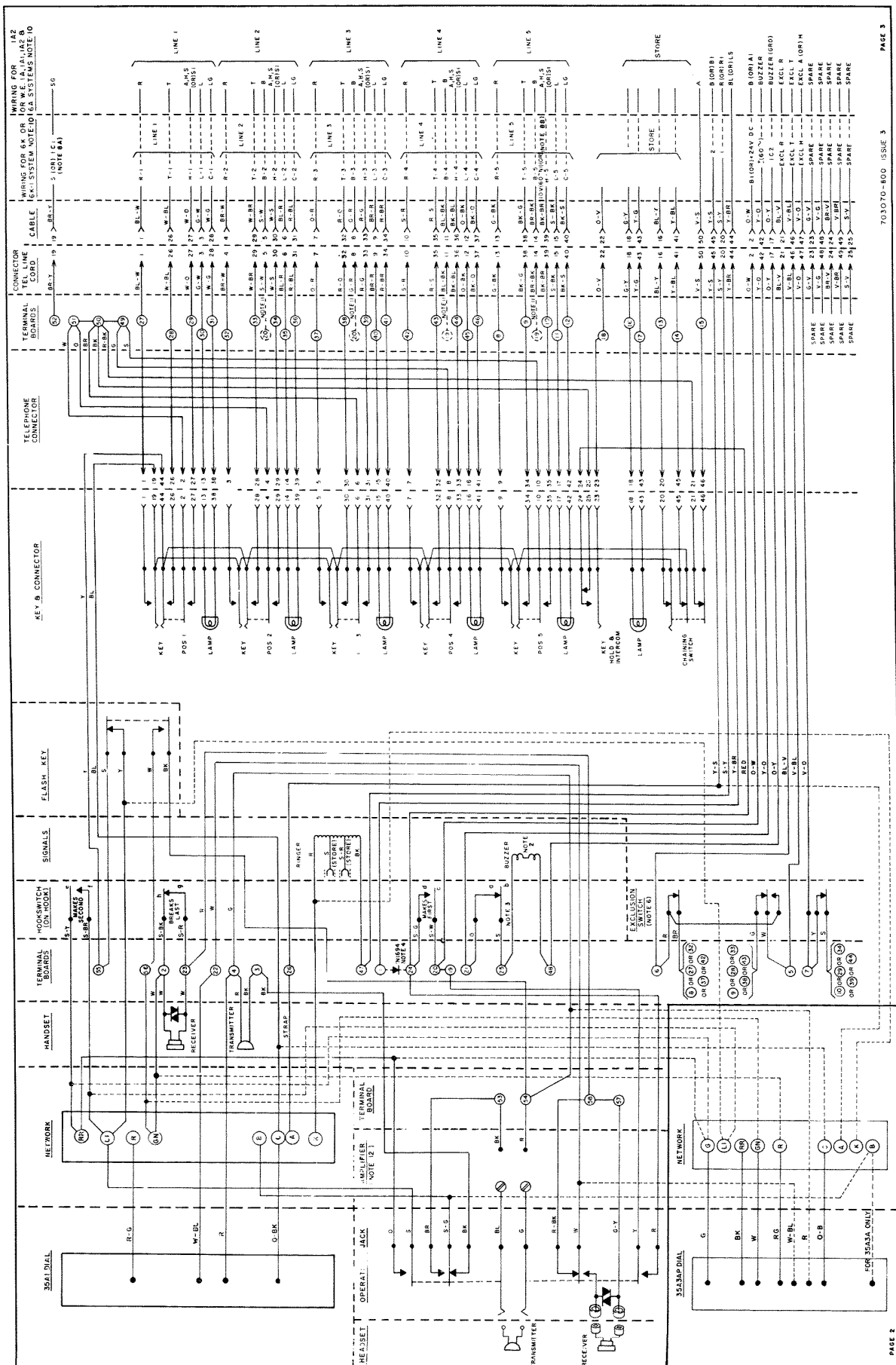


## COMDIAL 2807-5B5 TELEPHONE WIRING DIAGRAM

### NOTES:

1. When a COMMON SIGNAL is required using standard ringing voltage, the following options are available.
  - A. Series 20 straight line ringer. Order package assembly 702100-244 and wire as shown
  - B. Series 20 ringer for 60 Hz. Order package assembly 702100-260. Connect black to terminal 47 and red to terminal 26. Do not wire in capacitor A-K.
  - C. Tone ringer. Order package assembly 202100-488 and wire per instruction sheet in package assembly using terminals 26 and 47.
  - D. #2-A buzzer. Order package assembly 206014-621. Connect red wire to terminal 47 and brown wire to terminal 26.
2. When an INTERCOM BUZZER is required, the following options may be used.
  - A. Type 7 (A.C. or D.C.) buzzer. Requires mounting plate package assembly 206289-671.
  - B. "Q" buzzer. Mounted per instruction sheet 300981-191.
3. For INTERCOM BUZZER to be audible when off-hook, move buzzer lead from terminal 25 to 21.
4. When telephone is used with W.E. BUSY LAMP FIELD, move slate-green hookswitch wire from terminal 24 to 1 and add 1N1694 diode (part no. 202852-138) as shown.
5. When telephone is used with 1A2 BUSY STATION NUMBER DISPLAY, order diode package assembly 206286-451 and change wiring per instruction sheet in package assembly.
6. When MANUAL EXCLUSION feature is desired, order package assembly 206289-781 and wire as shown. Use terminals 27, 28 and 29 for exclusion on line 1; 32, 33 and 34 for exclusion on line 2; 37, 38 and 39 for exclusion on line 3; 42, 43 and 44 for exclusion on line 4; or 8, 9 and 10 for exclusion on line 5. Connect BL-V, V-BL and V-O conductors of cable to excluded line of excluded stations.
7. When a KEY POSITION is used as a SIGNALING POSITION, remove screw from key plunger to make key position non-locking and make the following wiring change.
  - A. Position 1 - move white wire from terminal 51 to 52.
  - B. Position 2 - move orange wire from terminal 51 to 52.
  - C. Position 3 - move brown wire from terminal 50 to 52.
  - D. Position 4 - move green wire from terminal 49 to 52.
  - E. Position 5 - move slate wire from terminal 49 to 52.
8. To use telephone with 6K-1 SYSTEM
  - A. Strap terminals IC1 and IC2.
  - B. When position 5 is used as line 5 connect BK-BR to H5. When position 5 is used as a signaling position, connect to 10V (60~NI) and remove screw from key plunger to make key position non-locking.
- 9.
10. To convert telephone for use with 6K or W.E. 1A SYSTEMS, the following changes are required. (No changes are required for 6K-1 or W.E. 1A1 Systems).
  - A. Remove all wires except yellow from terminals 19 and 20 and store.
  - B. Move slate-yellow hookswitch wire from terminal G to terminal 19.
  - C. Move white key wire from terminal GN to terminal 20.
  - D. Move black-white key wire from terminal GN to terminal G.
  - E. Move black key wire from terminal 50 and store.
  - F. Move red-white key wire from terminal R to terminal 50.
  - G. Remove orange wire from terminal G, slate wire from terminal L1 and store. Move red operators jack wire from terminal 24 to L1.
11. When "B" leads are NOT REQUIRED, "B" lead wires may be used as spares or multiplied together as A1 leads on terminals 19 and 20.
12. When AMPLIFIER is required, order package assembly 206290-761 and wire as shown. When AMPLIFIER is not required, connect BL operator's jack wire to terminal 53 and G operator's jack wire to terminal 54.

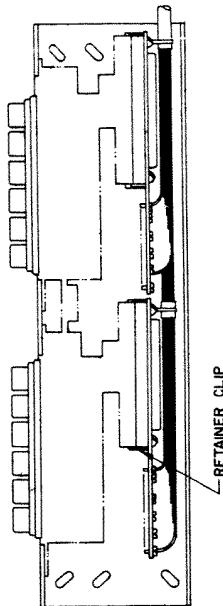
When POLARITY GUARD is REQUIRED for TONE DIAL SIGNALING under reverse battery conditions order package assembly 703016-852.



## MOUNTING INSTRUCTIONS

### NOTES:

1. REMOVE COVER AND KEY ASSEMBLIES FROM FRAME. MOUNT FRAME IN DESIRED LOCATION.
2. ASSEMBLY LINE CORD CONNECTOR TERMINAL BOARD TO KEY ASSEMBLY CONNECTOR BE SURE THE RETAINER CLIPS CLAMP OVER THE KEY ASSEMBLY CONNECTOR FRAME.
3. MOUNT KEYS AND LINE CORD ASSEMBLY INTO FRAME (KEY MAY MOUNT EITHER WAY IN FRAME).
4. REMOVE DESIRED LINE CORD KNOCKOUT FROM HOUSING AND ASSEMBLY HOUSING TO FRAME.



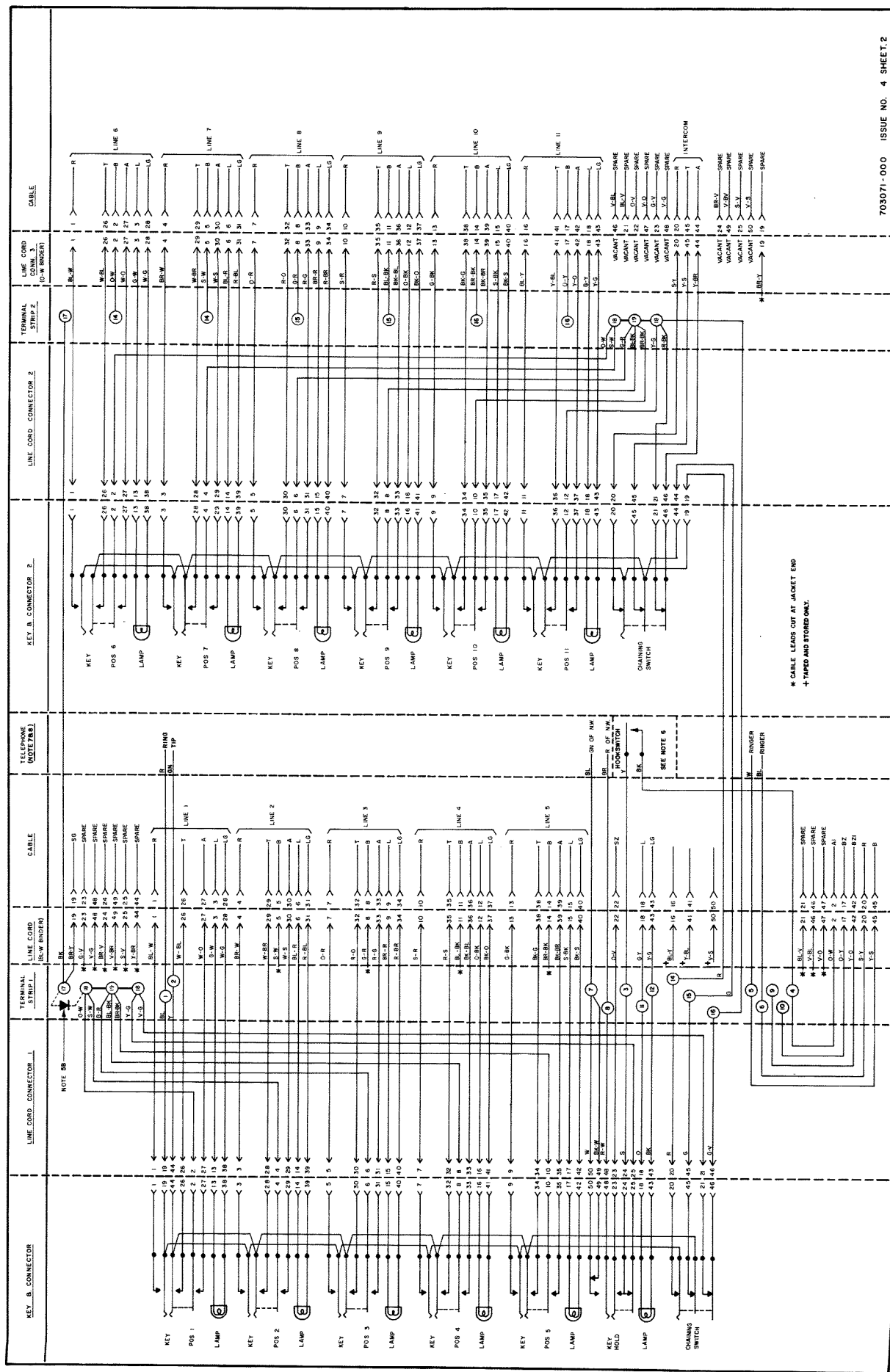
## COMDIAL 12 BUTTON KEYSET ACCESSORY BOX

### NOTES:

1. WHEN ACCESSORY BOX IS USED WITH C-T 1A2 BUSY STATION NUMBER DISPLAY ORDER DIODE PACKAGE ASSEMBLY 206286 451 AND CHANGE WIRING PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY.
2. WHEN A KEY POSITION IS USED AS A SIGNALING POSITION REMOVE SCREW FROM KEY PLUNGER TO MAKE KEY POSITION NON-LOCKING AND MAKE THE FOLLOWING WIRING CHANGE.
  - A. POSITION 1 - MOVE O-W WIRE FROM TERMINAL 18 TO 17.
  - B. POSITION 2 - MOVE S-W WIRE FROM TERMINAL 18 TO 17.
  - C. POSITION 3 - MOVE G-R WIRE FROM TERMINAL 19 TO 17.
  - D. POSITION 4 - MOVE BL-BK WIRE FROM TERMINAL 19 TO 17.
  - E. POSITION 5 - MOVE BR-BK WIRE FROM TERMINAL 19 TO 17.
  - F. POSITION 6 - MOVE O-W WIRE FROM TERMINAL 18 TO 17.
  - G. POSITION 7 - MOVE S-W WIRE FROM TERMINAL 18 TO 17.
  - H. POSITION 8 - MOVE G-R WIRE FROM TERMINAL 19 TO 17.
  - I. POSITION 9 - MOVE BL-BK WIRE FROM TERMINAL 19 TO 17.
  - J. POSITION 10 - MOVE BR-BK WIRE FROM TERMINAL 19 TO 17.
  - K. POSITION 11 - MOVE Y-G WIRE FROM TERMINAL 18 TO 17.
3. TO USE TELEPHONE WITH 6K-1 SYSTEM.
  - A. STRAP TERMINALS 1C1 AND 1C2.
  - B. WHEN POSITION 5 IS USED AS LINE 5 CONNECT BK-BR TO H5. WHEN POSITION 5 IS USED AS A SIGNALING POSITION CONNECT TO 10V (60 N1) AND REMOVE SCREW FROM KEY PLUNGER TO MAKE KEY POSITION NON-LOCKING.
  - C. TO PROVIDE INTERCOM WITH ALL BUTTONS RELEASED. CONNECT T-1-C AND R-1-C TO T AND R RESPECTIVELY OF THE LINE INTERCOM CIRCUIT FOR MANUAL INTERCOM. CONNECT T-1-C, R-1-C, C-1-C AND L-1-C TO T, R, C, AND L RESPECTIVELY OF DIAL INTERCOM CIRCUIT FOR DIAL INTERCOM. BL-Y AND Y-BL LINE CORD WIRES IN BLUE-WHITE BINDER MUST BE DISCONNECTED FROM TERMINALS 9 AND 10.
4. IN C-T 1A2 OR W. E. 1A2 SYSTEM TO PROVIDE INTERCOM WITH ALL BUTTONS RELEASED. CONNECT T, R, A, L AND LG TO DIAL OR MANUAL INTERCOM CIRCUIT AS SHOWN. BL-Y, Y-BL AND V-S LINE CORD WIRES IN BLUE-WHITE BINDER MUST BE DISCONNECTED FROM TERMINALS 9, 10 AND 11.
5. TO USE TELEPHONE WITH C-T 4-20 DIAL INTERCOM SYSTEM.
  - A. MOVE YELLOW-GREEN WIRE FROM TERMINAL 19 TO 17.
  - B. ADD IN1694 DIODE BETWEEN TERMINALS AS SHOWN.
  - C. CONNECT BROWN-YELLOW CABLE WIRE TO "S" OF THE 4-20 SYSTEM.
  - D. CONNECT T-1-C AND R-1-C TO TIP AND RING RESPECTIVELY OF THE 4-20 SYSTEM.
  - E. CONNECT SZ CABLE WIRE TO R-1-C.
6. FREE ONE SET OF MAKE CONTACTS ON THE HOOKSWITCH AND CONNECT TO (BLACK) A1 LEAD AND (YELLOW) HOLD KEY A LEAD. MAKE SURE THAT THIS SET OF CONTACTS MAKE BEFORE LINE CONTACTS MAKE GOING OFF-HOOK.
7. IF MORE TIE POINTS ARE REQUIRED IN THE TELEPHONE SET ORDER APPROPRIATE TERMINAL BOARD PACKAGE ASSEMBLY.
8. IF EIGHT CONDUCTOR TELEPHONE SET LINE CORD IS REQUIRED ORDER APPROPRIATE PACKAGE ASSEMBLY.

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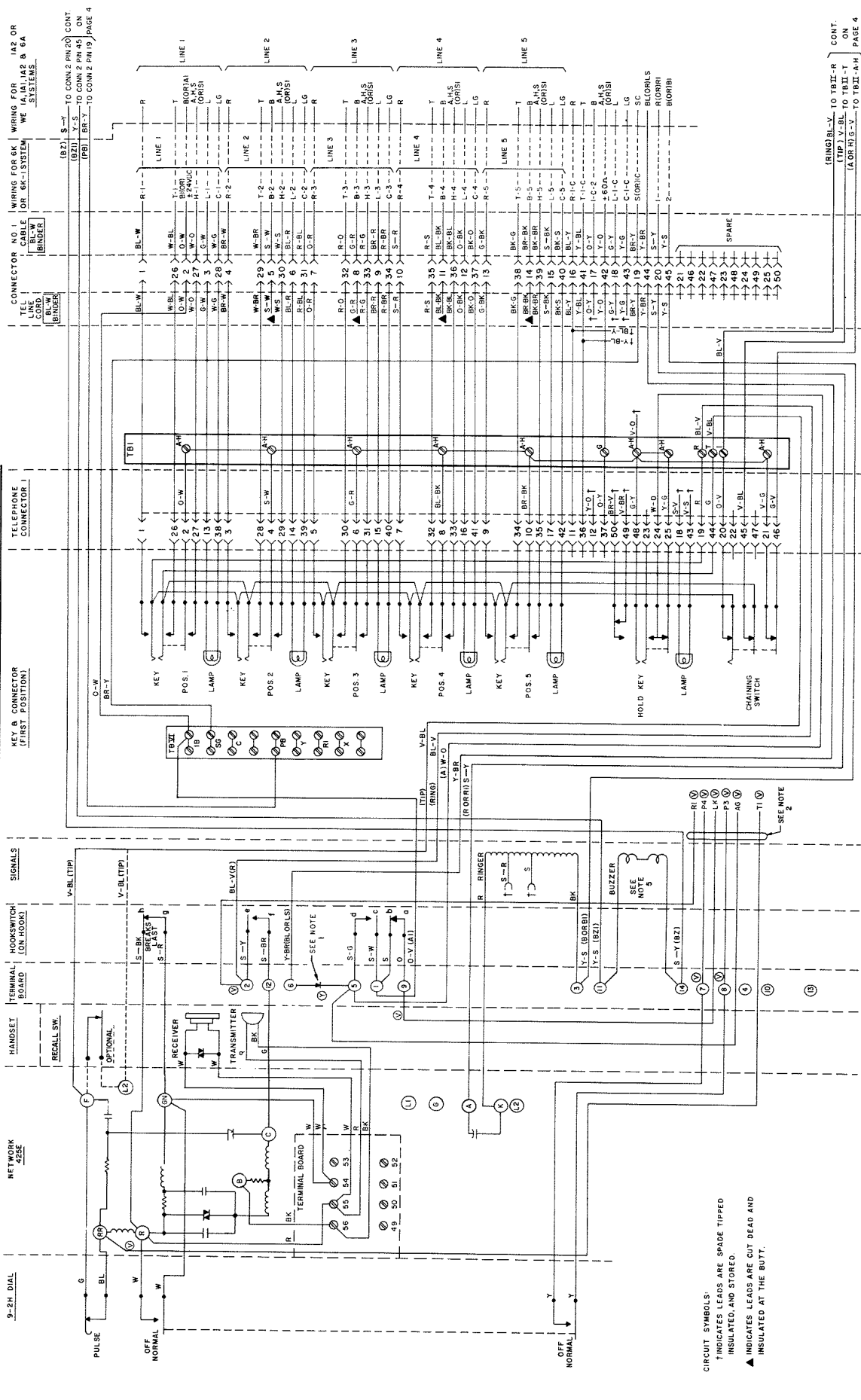
SHEET. 1



## NOTES:

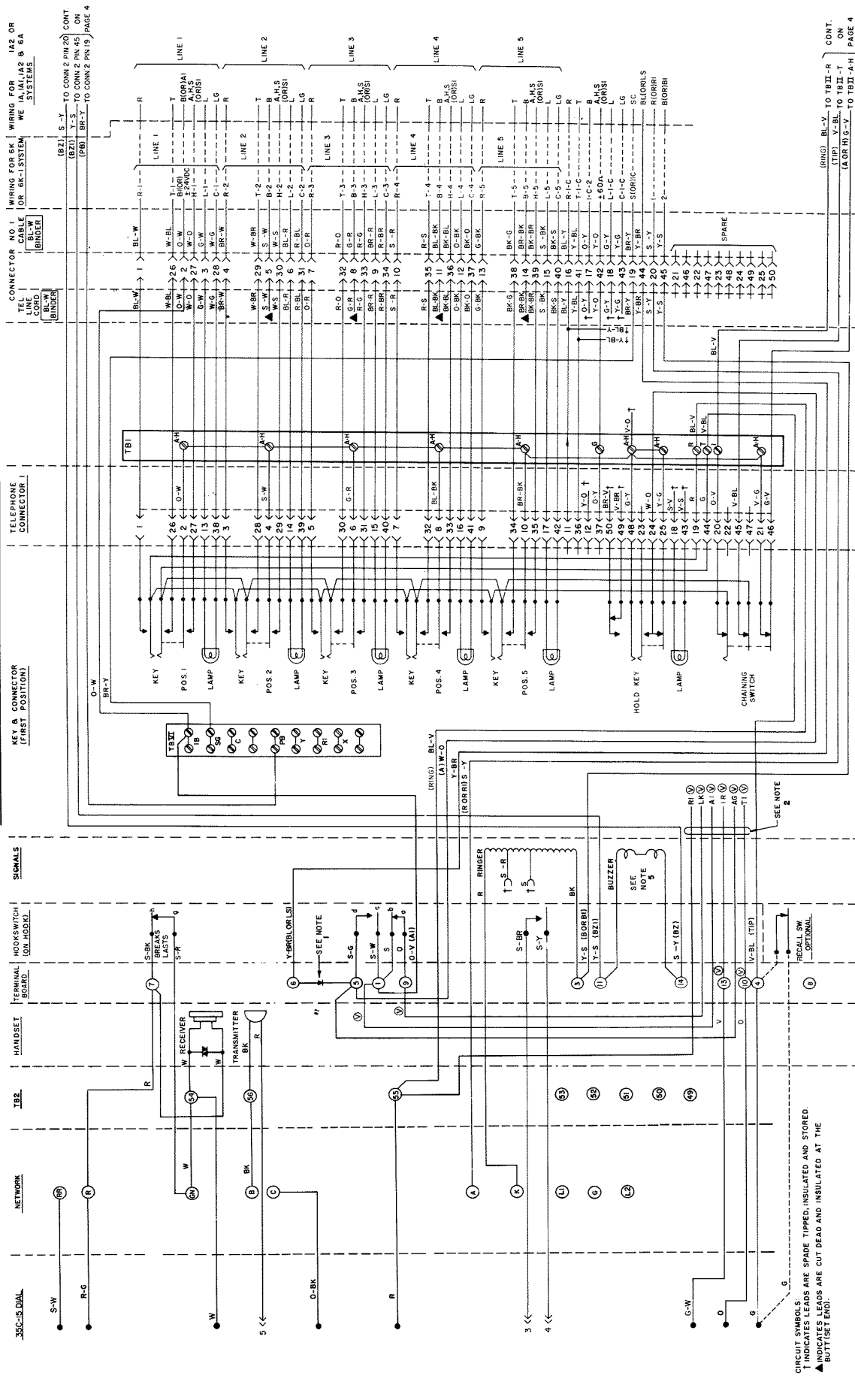
1. **WHEN TELEPHONE IS USED WITH BUSY STATION NUMBER DISPLAY (24V LAMP) MOVE THE SLATE-GREEN HOOKSWITCH LEAD FROM TERMINAL 5 TO 1. ADD AN S-C 827 DIODE (202852-138) AS SHOWN. WHEN 10 VOLT LAMPS (AND 18 VAC POWER) ARE USED, ORDER DIODE PACKAGE ASSEMBLY 206296-451 AND CHANGE WIRING PER INSTRUCTION SHEET INCLUDED.**
2. **FOR SPEAKERPHONE, CONNECT PER INSTRUCTIONS WITH SPEAKERPHONE EQUIPMENT.**
3. TO CONVERT KEYS FROM "PICKUP" TO "SIGNAL" FUNCTION, REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS FROM A-H TO THE SG TERMINAL OF TB-V1. IF ADDITIONAL TERMINALS ARE REQUIRED, PROVIDE A STRAP BETWEEN THE C TERMINAL AND THE SG TERMINAL OF TB-V1.
4. WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE.
  - A. SERIES 20 STRAIGHT LINE RINGER. ORDER PACKAGE ASSEMBLY 702100-244 AND WIRE AS SHOWN. IF CAPACITOR IS REQUIRED TO BLOCK D.C. FROM RINGER, CONNECT RED RINGER WIRE TO NETWORK TERMINAL K.
  - B. SERIES 20 RINGER FOR 60 Hz. ORDER PACKAGE ASSEMBLY 702100-260. CONNECT BLACK WIRE TO TERMINAL 3 AND RED WIRE TO TERMINAL A. DO NOT WIRE IN CAPACITOR A-K.
  - C. TONE RINGER. ORDER PACKAGE ASSEMBLY 202100-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY USING TERMINALS A AND 3.
5. WHEN AN INTERCOM BUZZER IS REQUIRED, THE FOLLOWING OPTION IS AVAILABLE.
  - A. "Q" BUZZER (AC) MAY BE MOUNTED TO CRADLE SWITCH BRACKET. CONNECT Y-S (BZ1) AND S-Y (BZ) LEADS (ORANGE BINDER) TO BUZZER LEADS USING TERMINALS 11 AND 14.
6. EACH SET IS SUPPLIED WITH (2)703017-162 BLOCKING RINGS TO PREVENT OPERATION OF UNUSED KEY BUTTONS.

# WIRING DIAGRAM 1800/2800-29B29 TELEPHONE

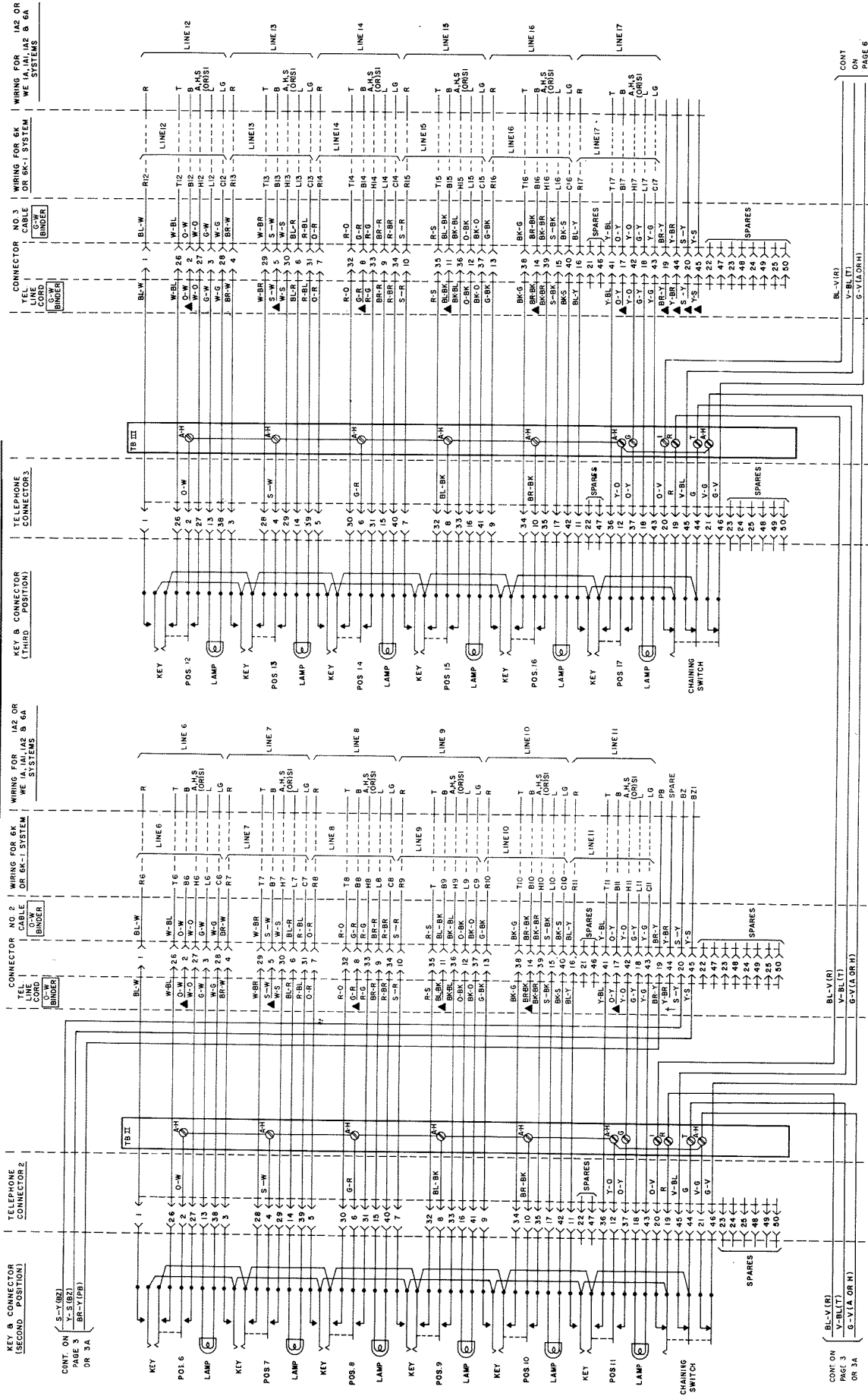


CIRCUIT SYMBOLS:  
 INDICATES LEADS ARE SPARE TIPPED  
 INSULATED, AND STORED.  
 INDICATES LEADS ARE CUT DEAD AND  
 INSULATED AT THE BUTT.

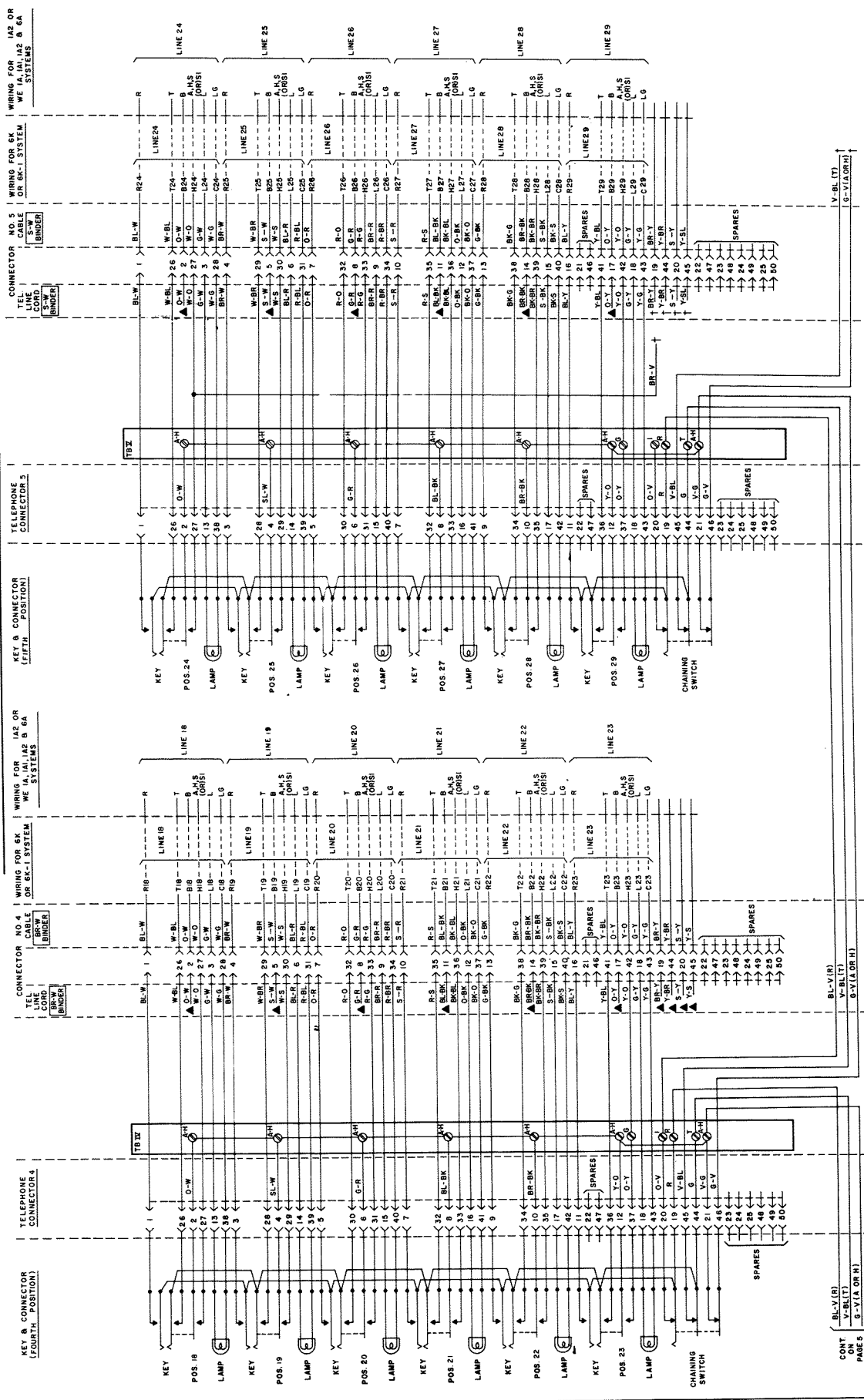
# WIRING DIAGRAM 2800-29B29 TELEPHONE



# WIRING DIAGRAM 1800/2800-29B29 TELEPHONE



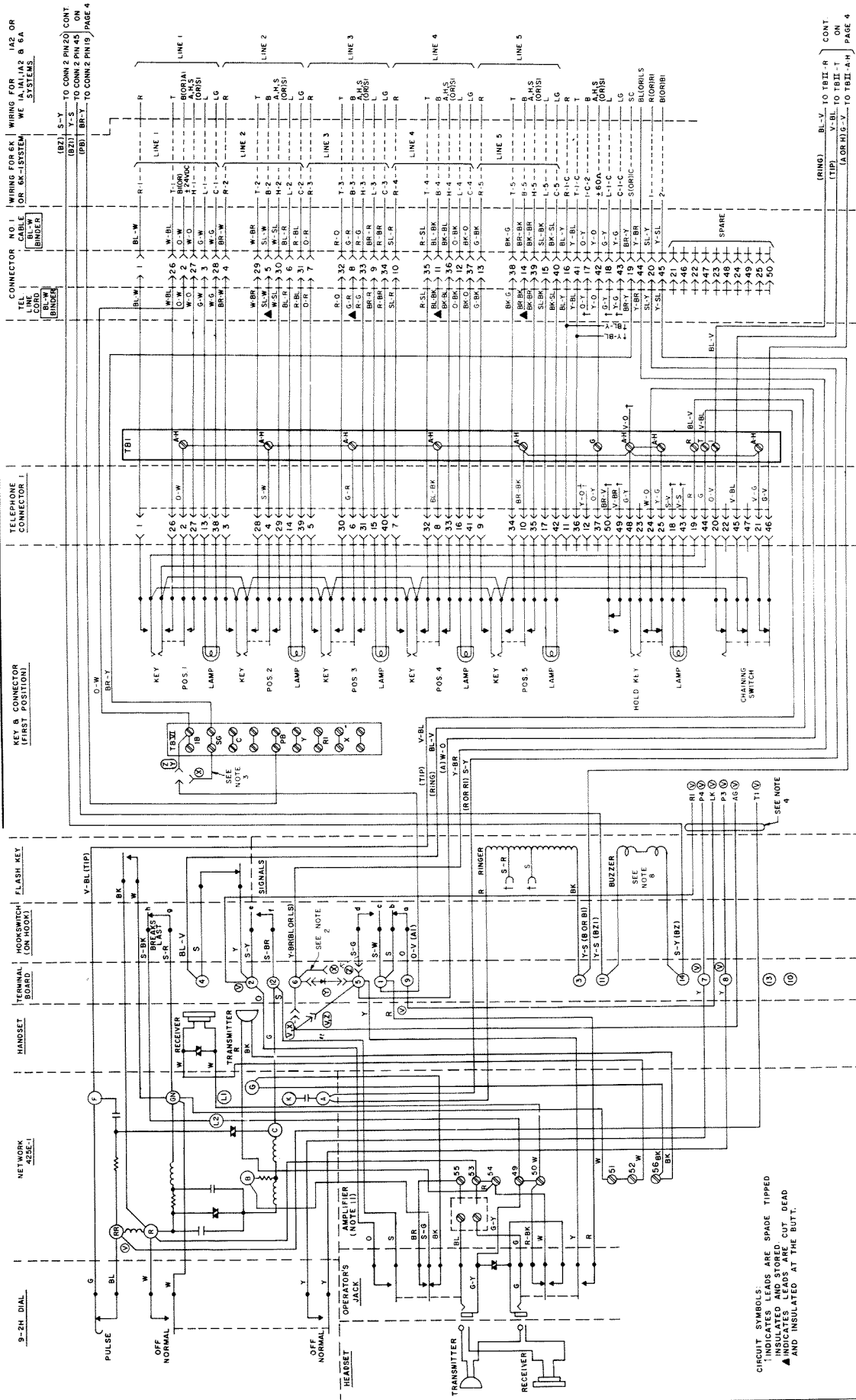
# WIRING DIAGRAM 1800/2800-29B29 TELEPHONE



## NOTES:

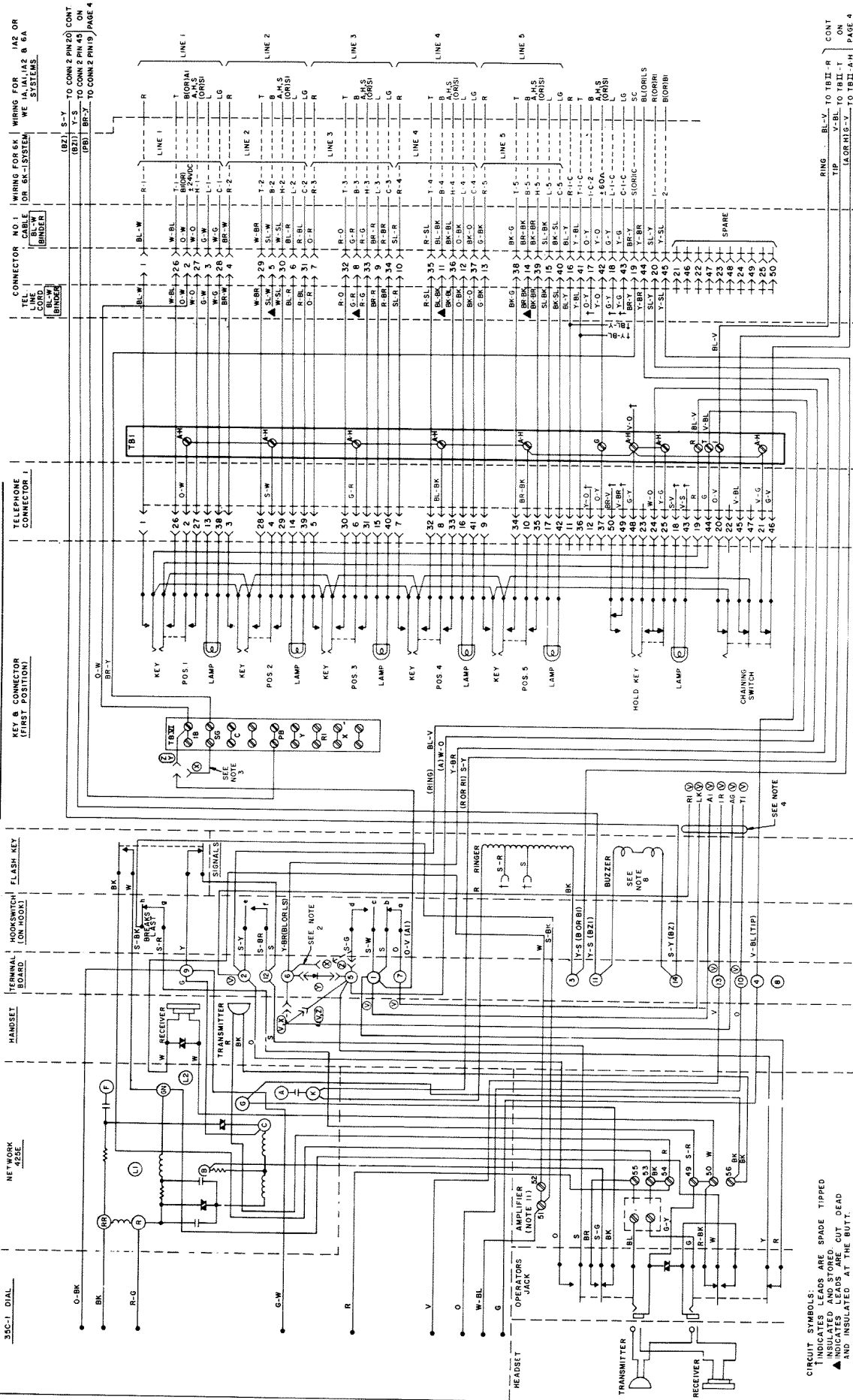
1. SETS ARE FACTORY WIRED WITH "Z" WIRING FOR USE WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEMS WITHOUT STATION BUSY LAMPS.
2. FOR 1A1 OR 1A2 KEY TELEPHONE SYSTEMS WITH W. E. STATION BUSY LAMPS USE "X" AND "Y" WIRING AND ADD 1 IN1694 DIODE ( PART NO. 202852-138) AS SHOWN. FOR USE WITH 1A2 BUSY STATION NUMBER DISPLAY, ORDER PACKAGE ASSEMBLY 206286-451 AND CHANGE WIRING PER INSTRUCTION SHEET IN PACKAGE.
3. FOR 1A KEY TELEPHONE SYSTEMS, WITH OR WITHOUT STATION BUSY LAMP, USE "X" WIRING AND CONNECT Y-G KEY LEAD TO "X" (TB-V1), BR-V KEY LEAD TO R-1 (TB-V1), V-BR KEY LEAD TO R (TB-1) AND MOVE BL-V LEAD FROM R (TB-1) TO R-1 (TB-V1).
4. FOR SPEAKERPHONE, USE "V" WIRING AND CONNECT PER INSTRUCTIONS WITH SPEAKERPHONE EQUIPMENT.
5. WITH 397A KEY IN FIRST MODULE, THE FOLLOWING LEADS ARE INSULATED AND STORED: (G-Y), (S-V), (Y-G), (V-S), (Y-O), (BL-Y), (Y-BL), AND (O-Y).
6. TO CONVERT KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS FROM A-H TO THE SG TERMINAL OF TB-V1. IF ADDITIONAL TERMINALS ARE REQUIRED, PROVIDE A STRAP BETWEEN THE C TERMINAL AND THE SG TERMINAL ON TB-V1.
7. WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE.
  - A. SERIES 20 STRAIGHT LINE RINGER. ORDER PACKAGE ASSEMBLY 702100-244, AND WIRE AS SHOWN. IF CAPACITOR IS REQUIRED TO BLOCK D.C. FROM RINGER, CONNECT RED RINGER WIRE TO NETWORK TERMINAL K.
  - B. SERIES 20 RINGER FOR 60 Hz. ORDER PACKAGE ASSEMBLY 702100-260. CONNECT BLACK WIRE TO TERMINAL 3 AND RED WIRE TO TERMINAL A. DO NOT WIRE IN CAPACITOR A-K.
  - C. TONE RINGER. ORDER PACKAGE ASSEMBLY 202100-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY USING TERMINALS A AND 3.
8. WHEN AN INTERCOM BUZZER IS REQUIRED, THE FOLLOWING OPTION IS AVAILABLE.
  - A. "Q" BUZZER (AC) MAY BE MOUNTED TO CRADLE SWITCH BRACKET. CONNECT Y-S (BZ1) AND S-Y (BZ) LEADS (ORANGE BINDER) TO BUZZER LEADS USING TERMINALS 11 AND 14.
9. THE PB LEAD IS FOR ADD-ON CONFERENCE CONTROL OF THE 6A KEY TELEPHONE SYSTEM.
10. EACH SET IS SUPPLIED WITH (2) 703017-162 BLOCKING RINGS TO PREVENT OPERATION OF UNUSED KEY BUTTONS.
11. WHEN TRANSMITTER AMPLIFIER IS REQUIRED FOR OPERATOR'S SET, ORDER PACKAGE ASSEMBLY 206290-761. IF AMPLIFIER IS NOT REQUIRED, CONNECT BL JACK WIRE TO 55, AND G JACK WIRE TO 53.
12. WHEN POLARITY GUARD IS REQUIRED FOR TONE DIAL SIGNALLING UNDER REVERSE BATTERY CONDITIONS ORDER PACKAGE ASSEMBLY 703016-852.

# WIRING DIAGRAM 1807-29B29 TELEPHONE



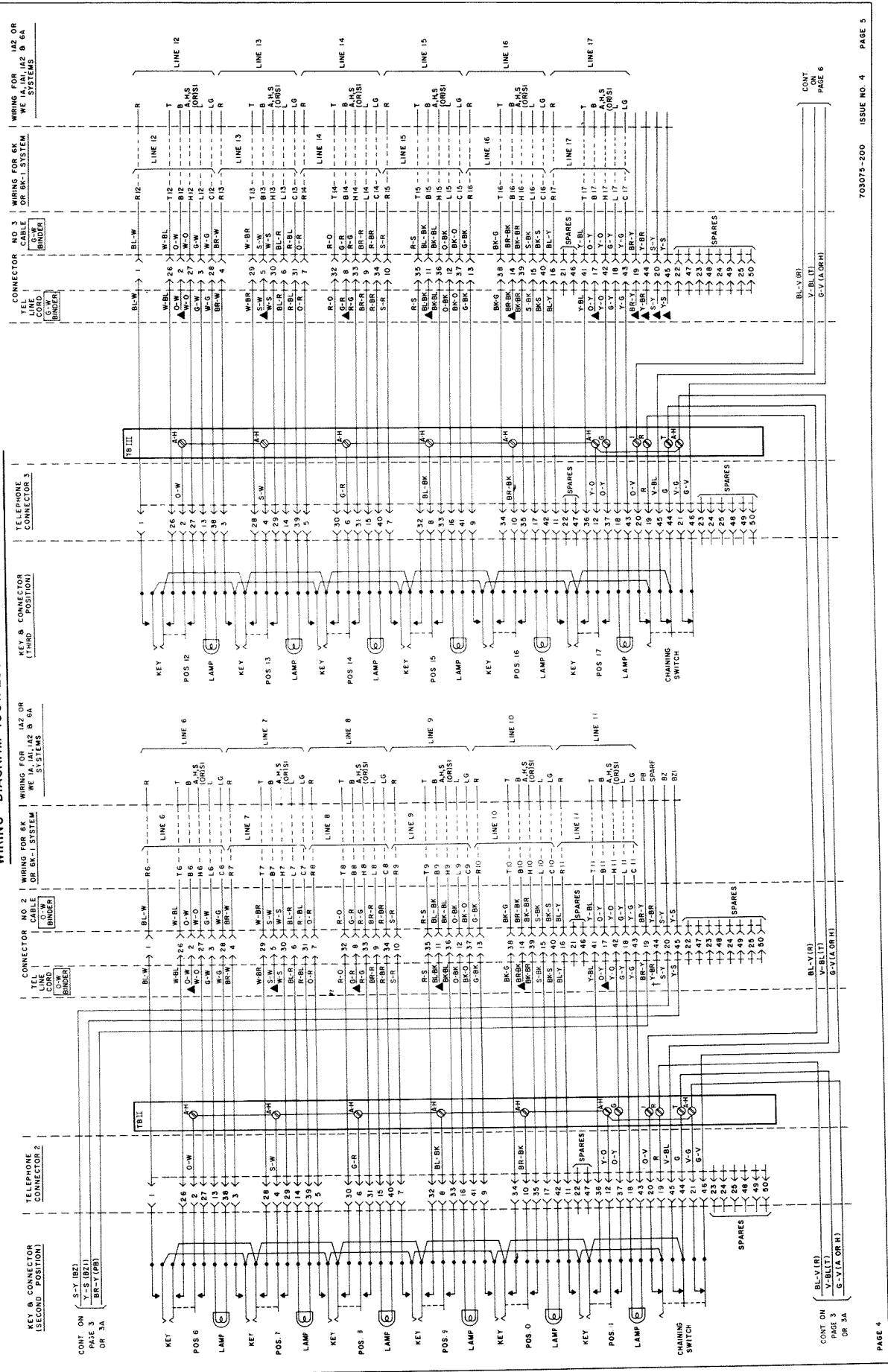
CIRCUIT SYMBOLS:  
 1 INDICATES LEADS ARE SPADE TIPPED  
 2 INDICATES LEADS ARE STORED CUT DEAD  
 3 INDICATES LEADS ARE CUT DEAD  
 4 AND INSULATED AT THE BUTT.

# WIRING DIAGRAM 2807-29B29 TELEPHONE

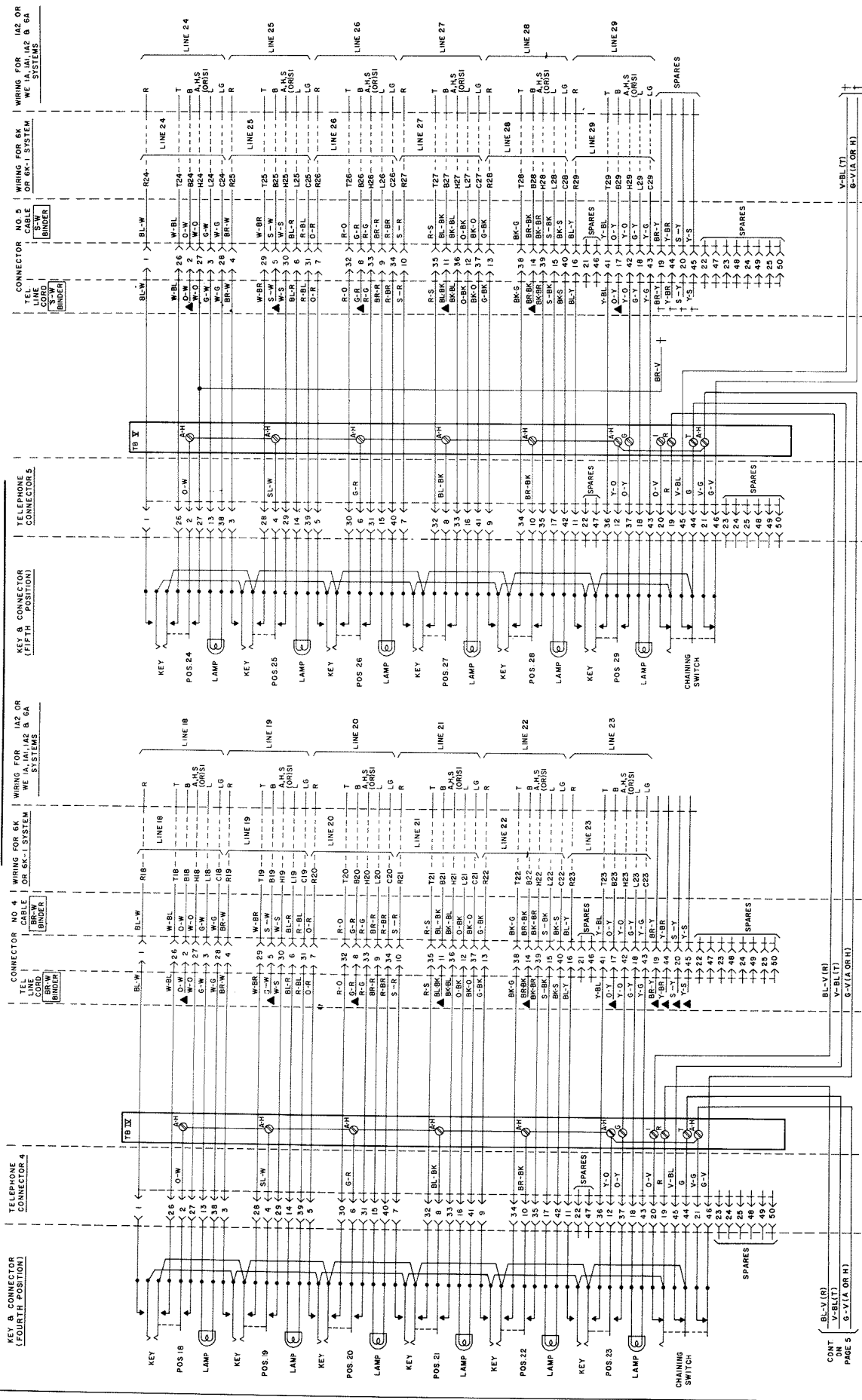


CIRCUIT SYMBOLS:  
 INDICATED LEADS ARE SPARE TIPPED  
 INDICATED AND STORED  
 INDICATED LEADS ARE CUT DEAD  
 AND INSULATED AT THE BOOT.

# WIRING DIAGRAM 1807/2807-29B29 TELEPHONE



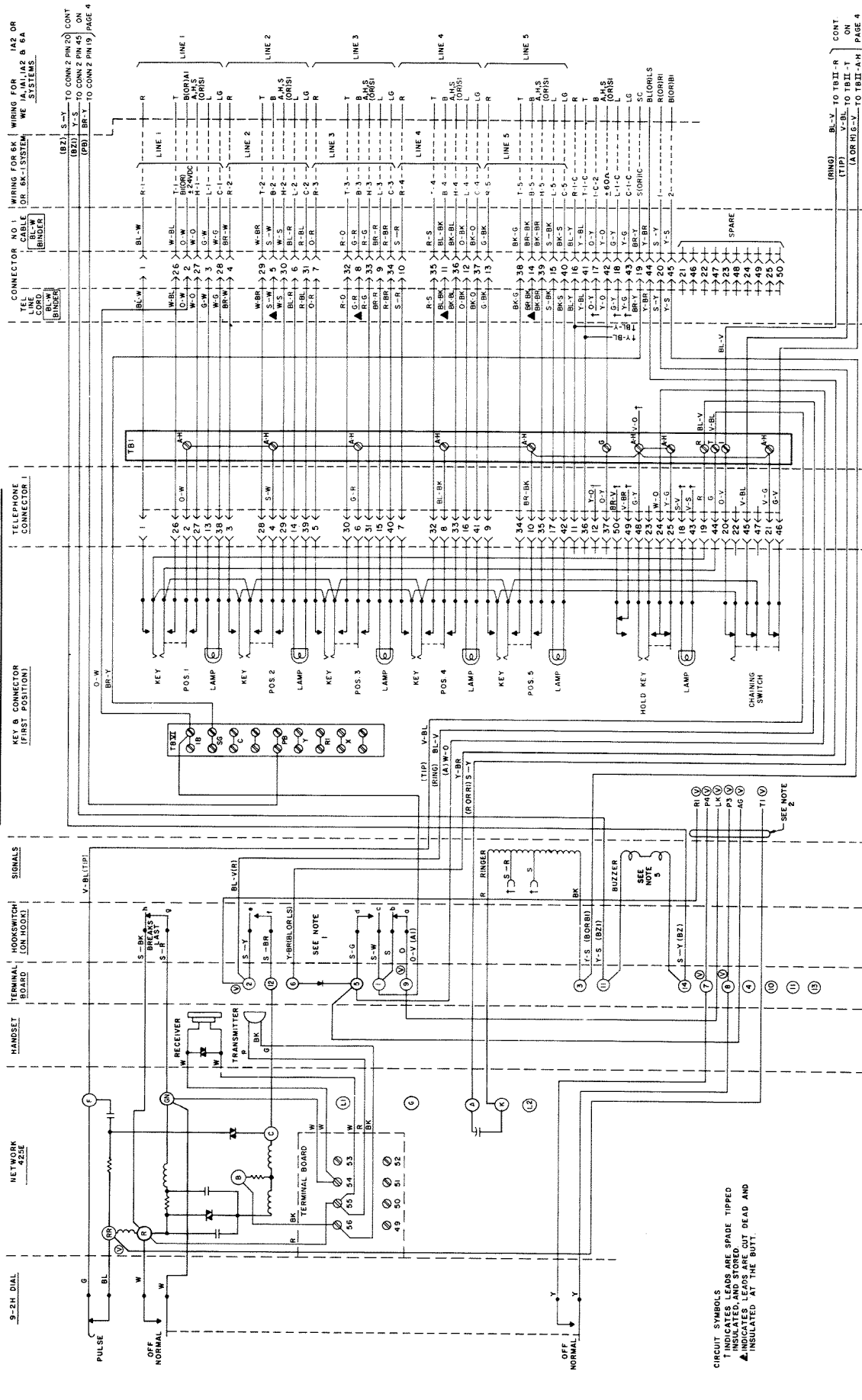
# WIRING DIAGRAM 1807/2807-29B29 TELEPHONE



**NOTES:**

- 1. WHEN TELEPHONE IS USED WITH BUSY STATION NUMBER DISPLAY (24V LAMP) MOVE THE SLATE-GREEN HOOKSWITCH LEAD FROM TERMINAL 5 TO 1. ADD AN S-C 827 DIODE (202852-138) AS SHOWN. WHEN 10 VOLT LAMPS (AND 18VAC POWER) ARE USED, ORDER DIODE PACKAGE ASSEMBLY 206286-451 AND CHANGE WIRING PER INSTRUCTION SHEET.**
- 2. FOR SPEAKERPHONE, CONNECT PER INSTRUCTIONS WITH SPEAKERPHONE EQUIPMENT.**
- 3. TO CONVERT KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE THE PLUNGER LOCKING SCREW AND MOVE THE ASSOCIATED SPADE TIPPED LEADS FROM A-H TO THE SG TERMINAL OF TB-V1. IF ADDITIONAL TERMINALS ARE REQUIRED, PROVIDE A STRAP BETWEEN THE C TERMINAL AND THE SG TERMINAL ON TB-V1.**
- 4. WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE.**
  - A. SERIES 20 STRAIGHT LINE RINGER ORDER PACKAGE ASSEMBLY 702100-244. AND WIRE AS SHOWN.**
  - B. SERIES 20 RINGER FOR 60 Hz. ORDER PACKAGE ASSEMBLY 702100-260. CONNECT BLACK WIRE TO TERMINAL 3 AND RED WIRE TO TERMINAL A. DO NOT WIRE IN CAPACITOR A-K.**
  - C. TONE RINGER. ORDER PACKAGE ASSEMBLY 202100-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY USING TERMINALS A AND 3.**
- 5. WHEN AN INTERCOM BUZZER IS REQUIRED, THE FOLLOWING OPTION IS AVAILABLE.**
  - A. "Q" BUZZER (AC) MAY BE MOUNTED TO CRADLE SWITCH BRACKET. CONNECT Y-S (BZ1) AND S-Y (BZ) LEADS (ORANGE BINDER) TO BUZZER LEADS USING TERMINALS 11 AND 14.**
- 6. EACH SET IS SUPPLIED WITH (2) 703017-162 BLOCKING RINGS TO PREVENT OPERATION OF UNUSED KEY BUTTONS.**

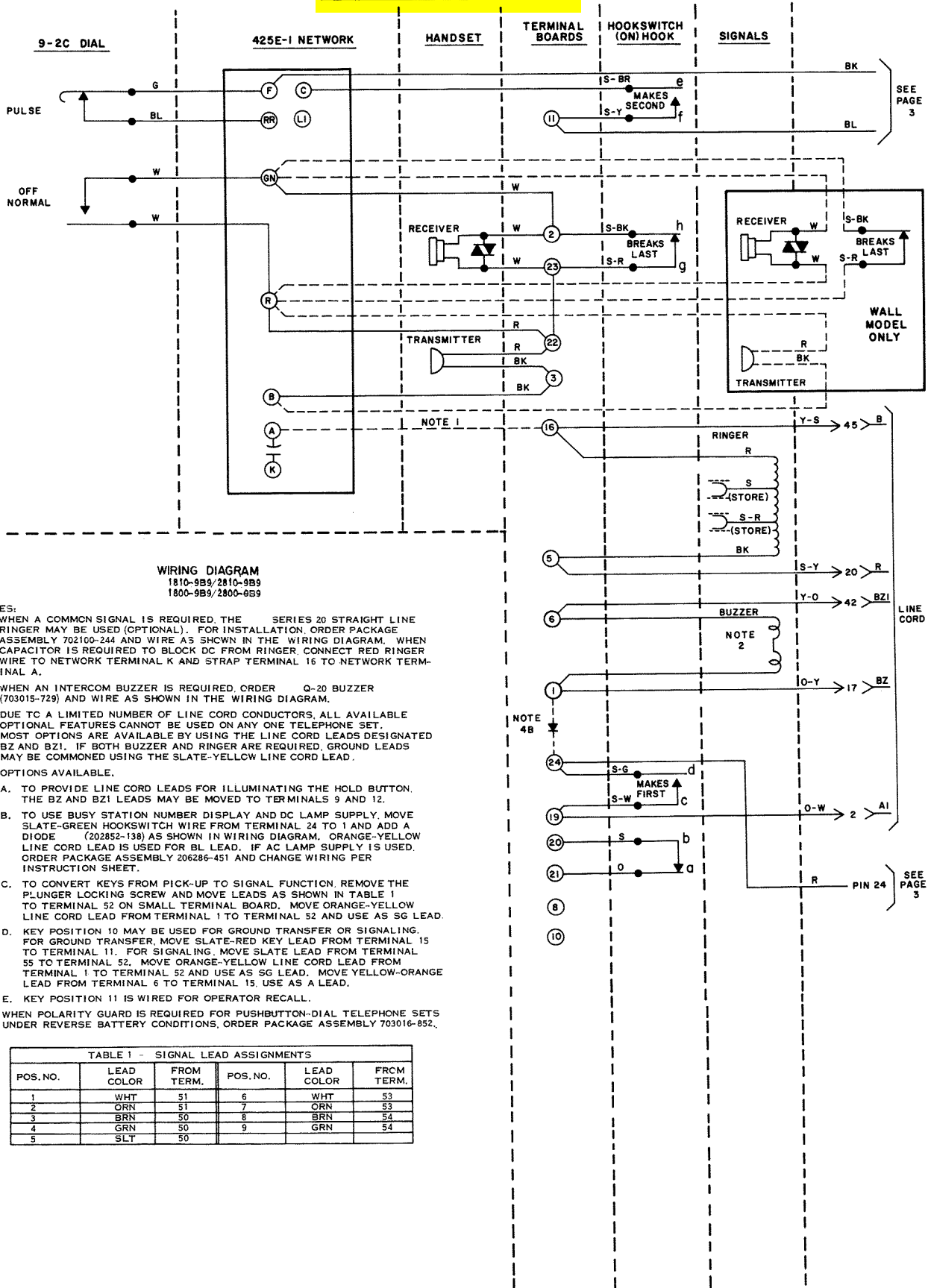
# WIRING DIAGRAM 1800-17B17 TELEPHONE

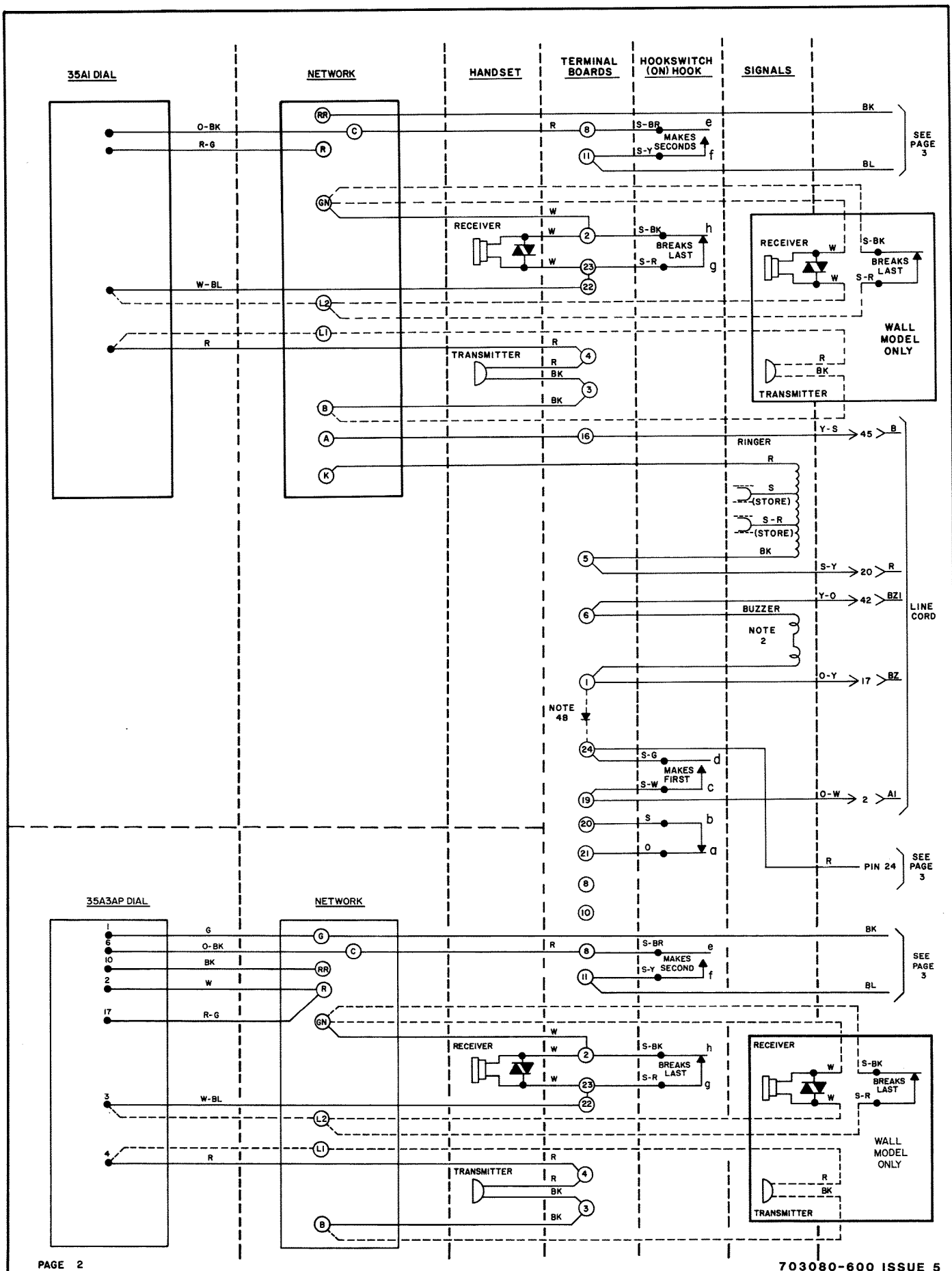


CIRCUIT SYMBOLS  
 T INDICATES LEADS ARE SPARE TIPPED  
 I INDICATES AND STORED  
 INSULATED AND STORED  
 INSULATED AND STORED  
 INSULATED AT THE BUTT



[illegible]





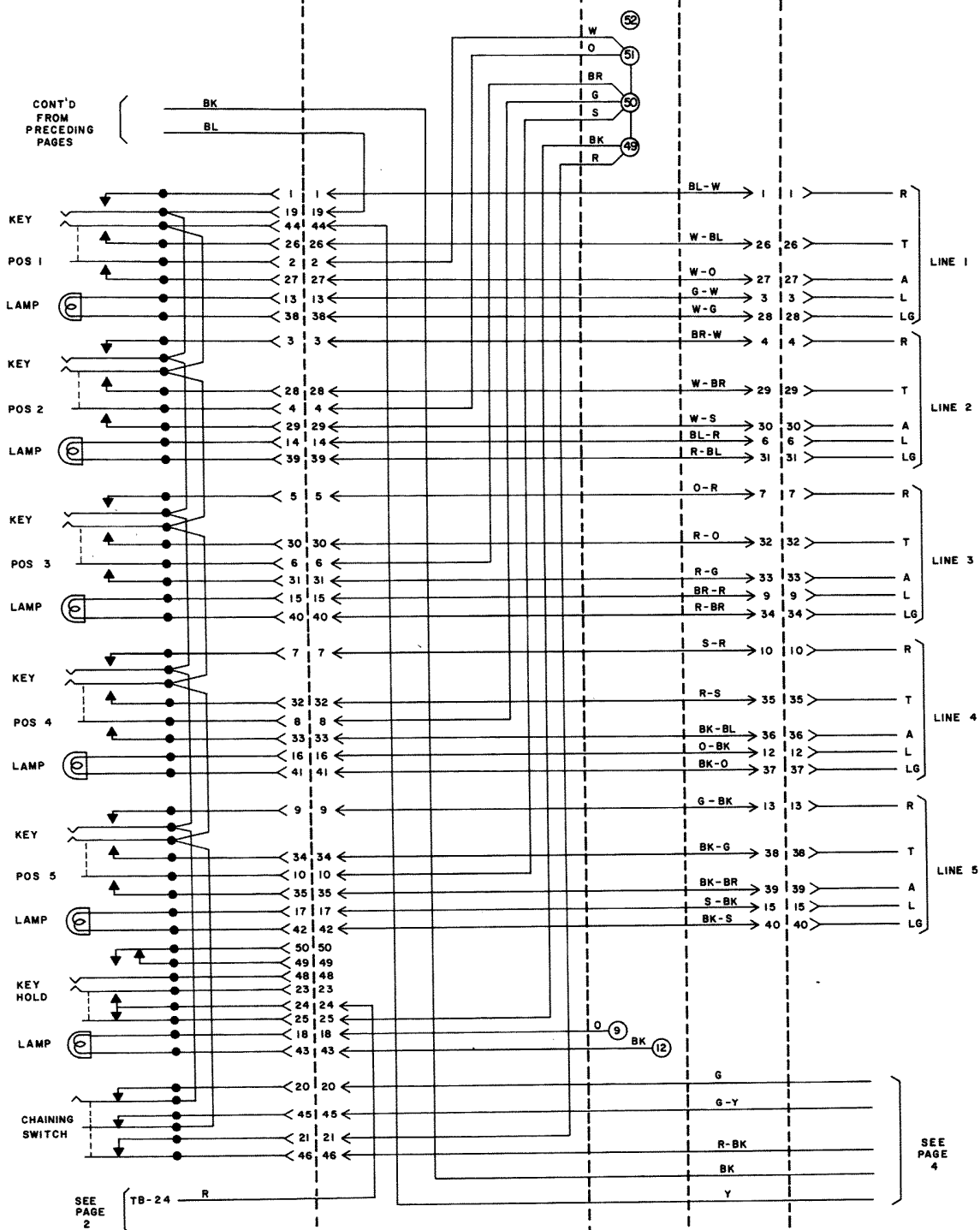
# KEY & CONNECTOR I

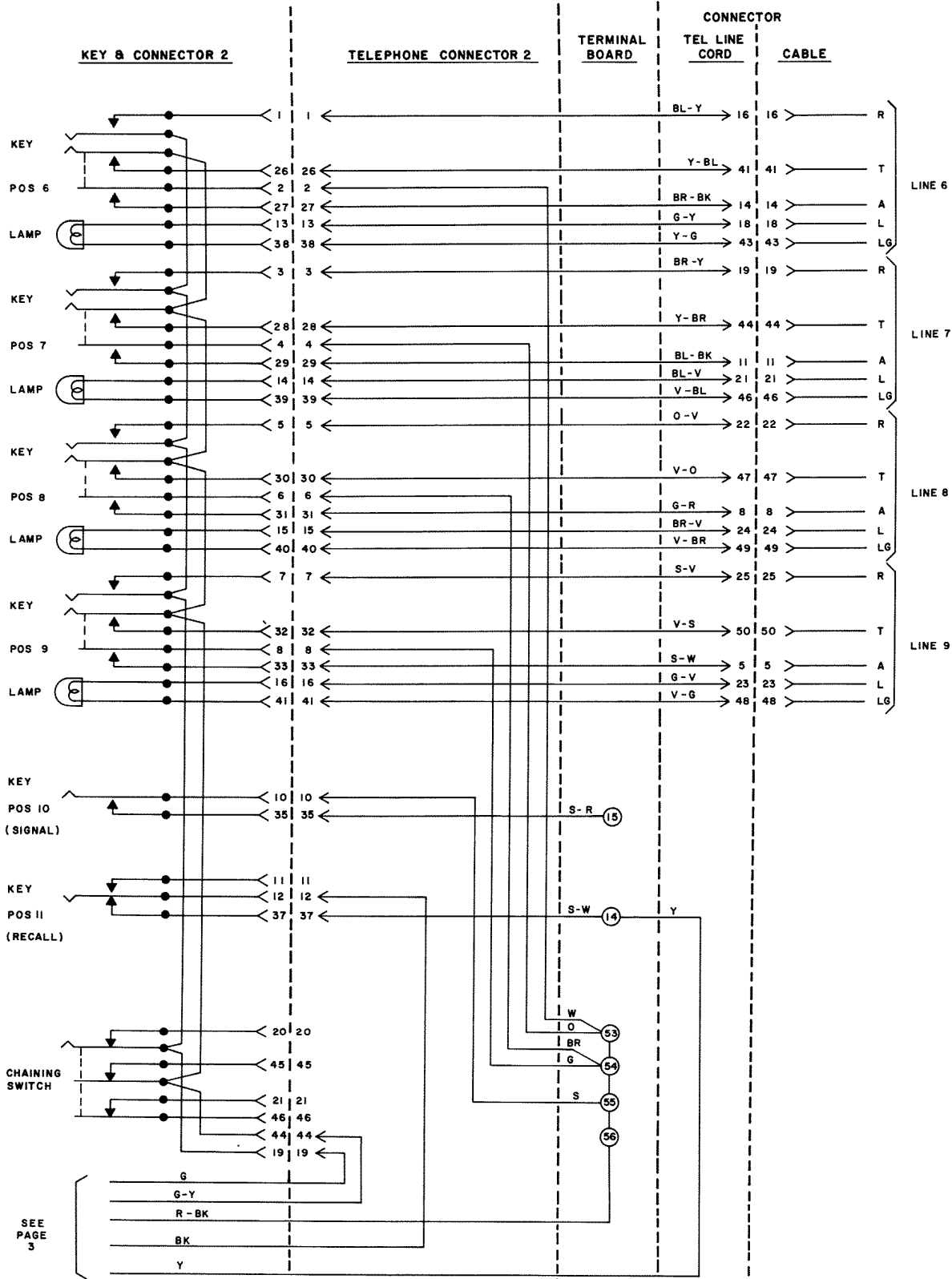
# TELEPHONE CONNECTOR I

# TERMINAL BOARD

# CONNECTOR TEL LINE CORD

# CABLE





# COMDIAL 2802-5A1 TELEPHONE WIRING DIAGRAM

## NOTES:

1. WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE.
  - (A) SERIES 20 STRAIGHT LINE RINGER ORDER PACKAGE ASSEMBLY 70200-244 AND WIRE AS SHOWN.
  - (B) SERIES 20 RINGER FOR 60HZ. ORDER PACKAGE ASSEMBLY 70200-260 CONNECT BLACK TO TERMINAL L2 AND RED TO TERMINAL F. DO NOT WIRE IN CAPACITOR A-K.
  - (C) TONE RINGER ORDER PACKAGE ASSEMBLY 20200-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY USING TERMINALS F AND L2.
  - (D) 2A BUZZER ORDER PACKAGE ASSEMBLY 20604-821 CONNECT RED WIRE TO TERMINAL L2 AND BROWN WIRE TO TERMINAL F.
2. FOR "X" LEAD CONTROL, ORDER 6 CONDUCTOR LINE CORD AND WIRE AS SHOWN (NON-MODULAR ONLY). OTHERWISE, SPECIFY USOC RJ13C STANDARD JACK.
3. TO CONVERT TO FIVE LINE TELEPHONE, ORDER PACKAGE ASSEMBLY 703081-509/523 AND WIRE PER WIRING DIAGRAM 703066-800.

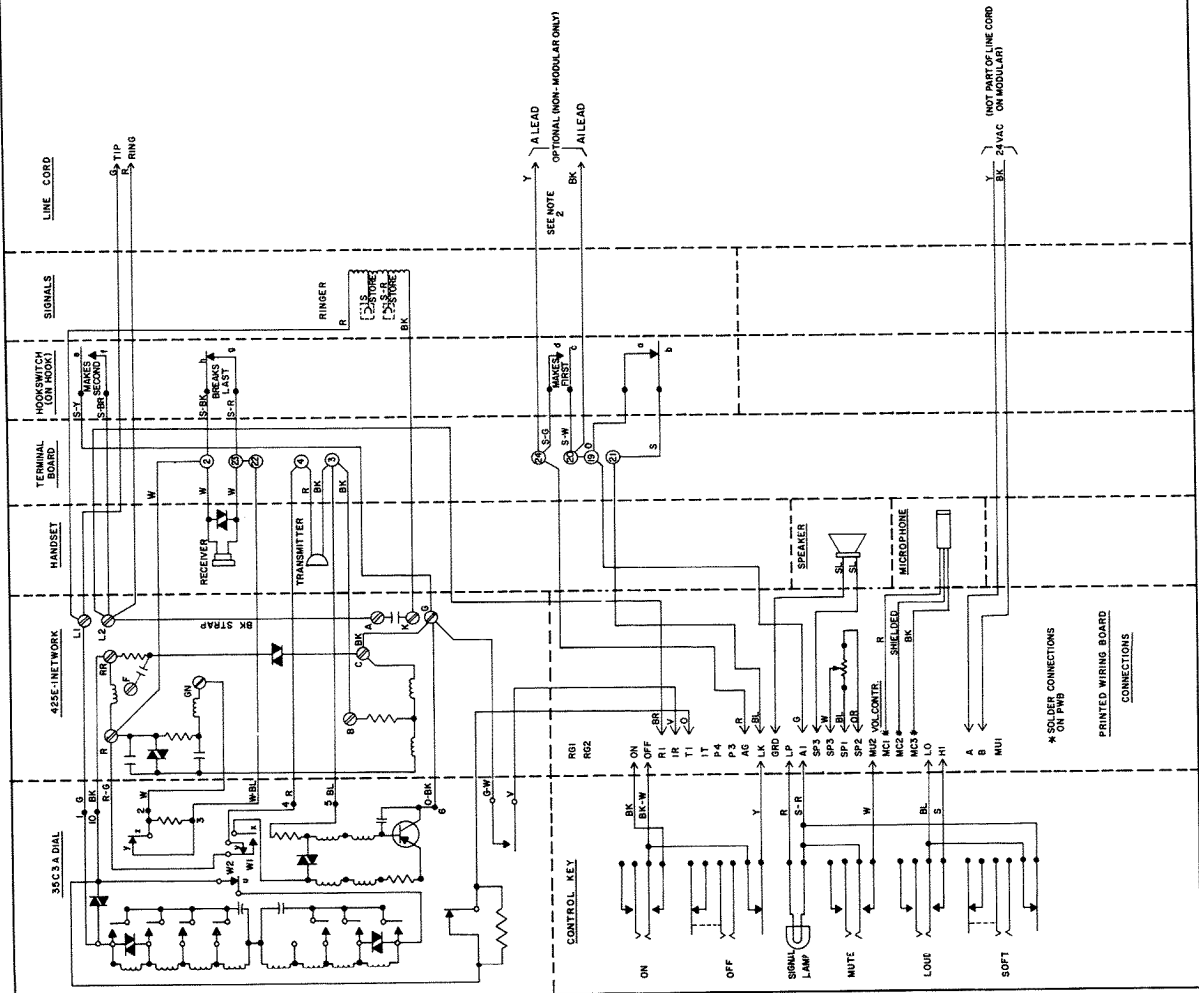
## INSTRUCTIONS FOR CONNECTING 24V TRANSFORMER

THE LOUD SPEAKING TELEPHONE REQUIRES AN EXTERNAL SOURCE OF 24 VOLT POWER TO OPERATE THE ELECTRONIC SECTION.

## CONNECTION OPTIONS:

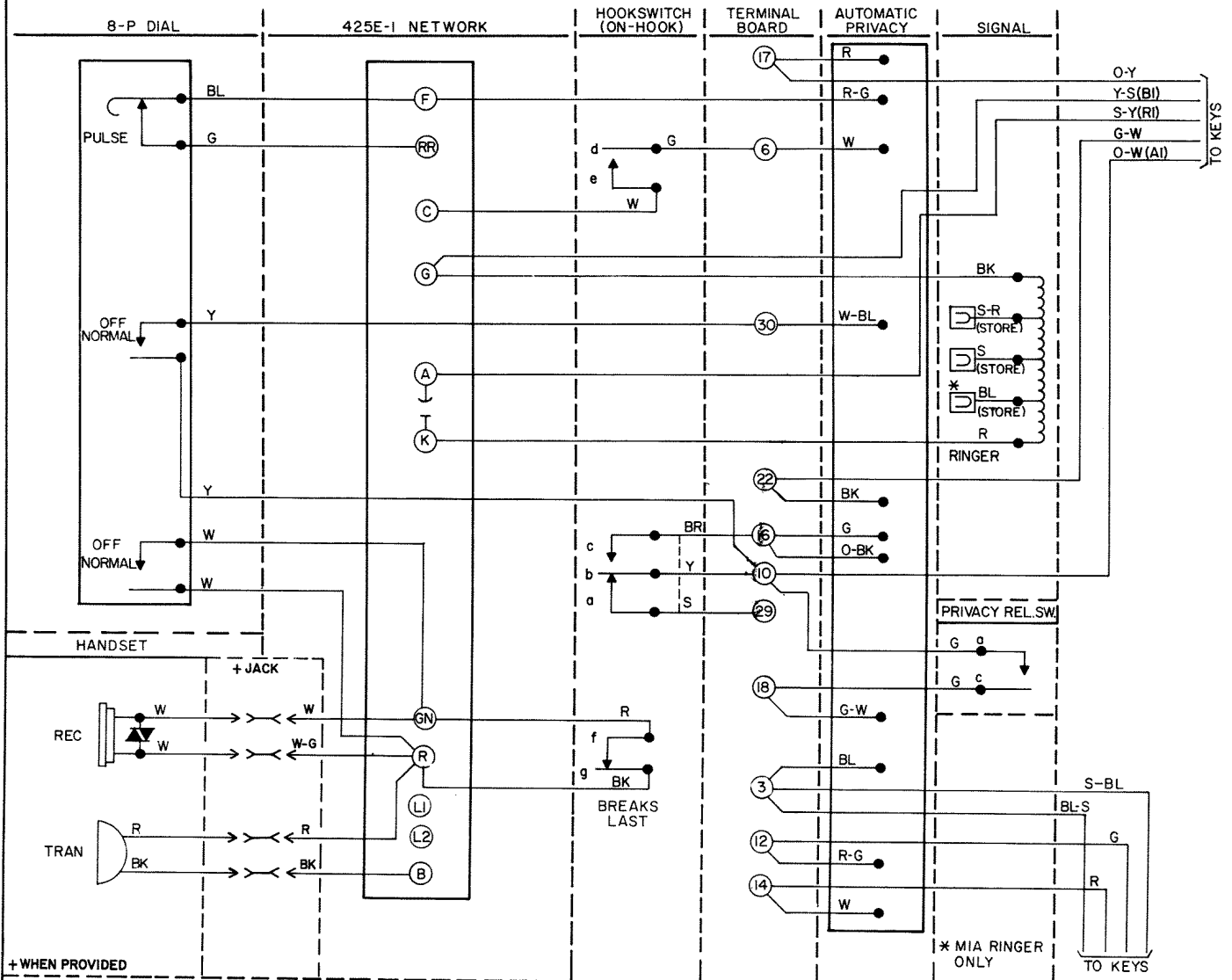
1. AT THE LINE PLUG  
THE 24 VOLTS A.C. MAY BE CONNECTED TO THE YELLOW AND BLACK LEADS OF THE TELEPHONE LINE CORD BY MEANS OF A 66E TERMINAL BLOCK (NON-MODULAR ONLY).

THE 24 VOLT TRANSFORMER MAY BE SECURED BY PLACING ITS MOUNTING TAB UNDER THE CENTER SCREW OF A STANDARD DUPLEX OUTLET. TAKE CARE NOT TO SHORT CIRCUIT THE 24 VOLT OUTPUT AFTER THE TRANSFORMER IS PLUGGED IN.



\* SOLDER CONNECTIONS ON PWBs  
PRINTED WIRING BOARD CONNECTIONS

# 10-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY & B.L.F.



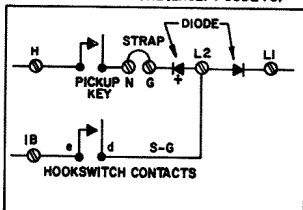
10-BUTTON SERIES TELEPHONE (W/PRIVACY) & B.L.F.  
INCLUDES 0835/76 AND 2835/76

## NOTES:

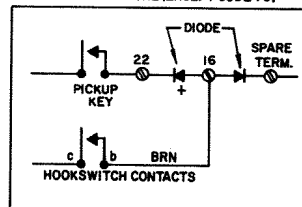
- CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).
- OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS. IF A RINGER IS USED WITH A BUZZER, CONNECT THE BUZZER TO THE SPARE Y-O LEAD AND THE B1 RINGER LEAD.
- TO CONVERT LINE KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED KEY LEAD (O-W, S-W, G-R, BL-BK, BR-BK, BK-BL, R-G, OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 28. CONNECT SPARE Y-O LEAD TO TERMINAL 28.
- THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONES ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
- TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
- FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 81-287-72.

TELEPHONES CONNECTED TO B.L.F.: ADD DIODES AS SHOWN.  
+ TELEPHONES WITH CODE 76 DO NOT NEED THIS DIODE

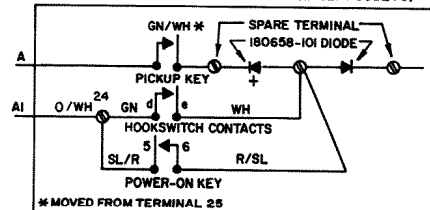
### 6 BUTTON TELEPHONE (EXCEPT CODE 76)



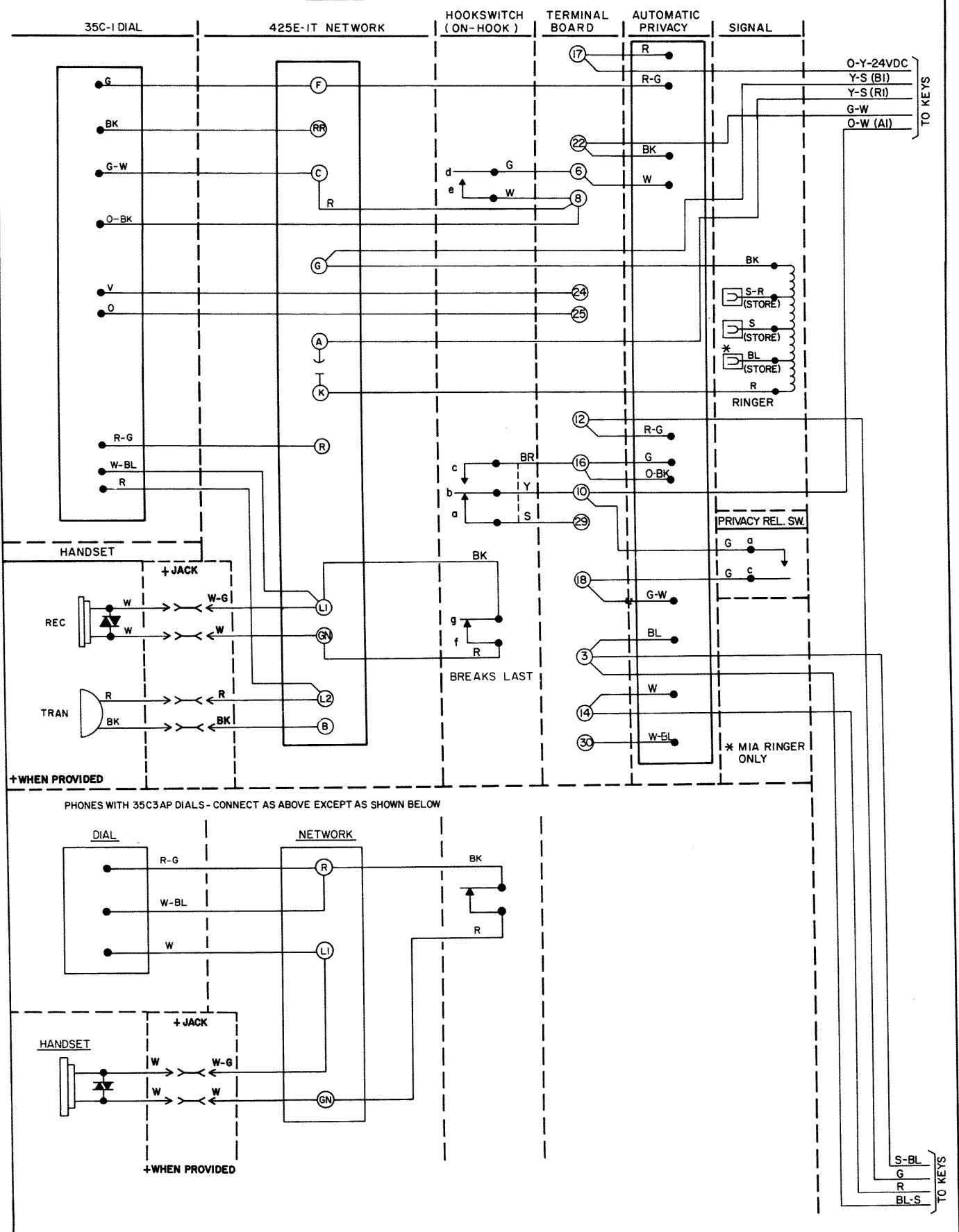
### 10/20TYPE TELEPHONE (EXCEPT CODE 76)

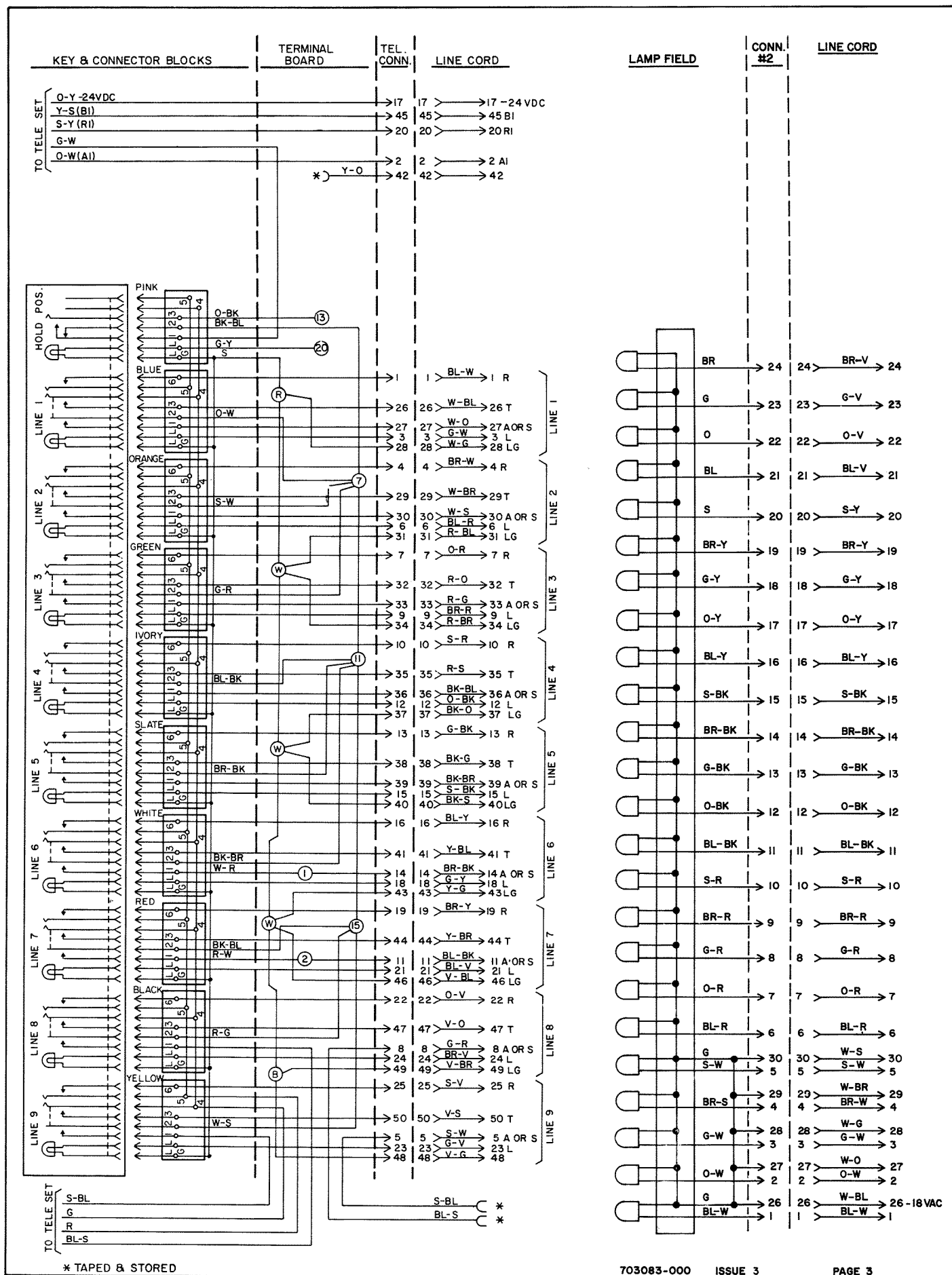


### HANDSFREE TELEPHONE (EXCEPT CODE 76)

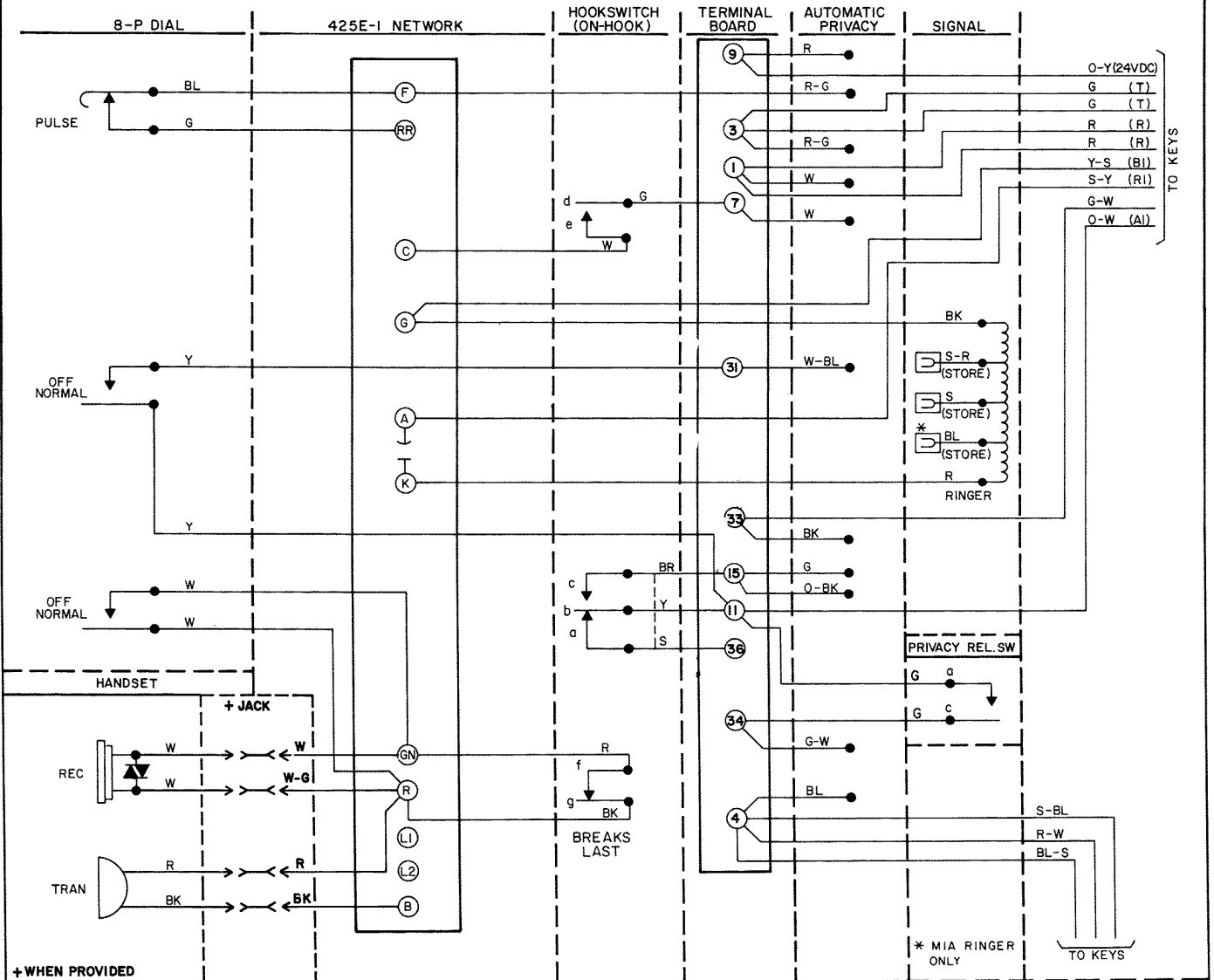


10-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY & B.L.F.





# 20-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY & B.L.F.



## 20-BUTTON SERIES TELEPHONE (W/PRIVACY) & B.L.F. INCLUDES 0862/76 AND 2862/76

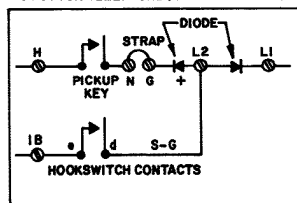
### NOTES:

1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).
2. OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - (A) AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS. IF A RINGER IS USED WITH A BUZZER, CONNECT THE BUZZER TO THE SPARE Y-O LEAD AND THE B1 RINGER LEAD.

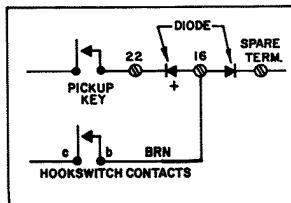
- (B) TO CONVERT LINE KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED KEY LEAD (O-W, S-W, G-R, BL-BK, BR-BK, BK-BR, BK-BL, R-G OR W-S) FROM FACTORY WIRING TERMINALS TO TERMINAL 28. CONNECT SPARE Y-O LEAD TO TERMINAL 28.
- (C) THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONES ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
3. TO DISABLE BUTTON RESTORATION. TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
4. FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO 81-287-72.

TELEPHONES CONNECTED TO B.L.F: ADD DIODES AS SHOWN.  
+ TELEPHONES WITH CODE 76 DO NOT NEED THIS DIODE

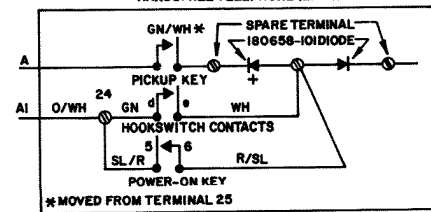
### 6 BUTTON TELEPHONE (EXCEPT CODE 76)



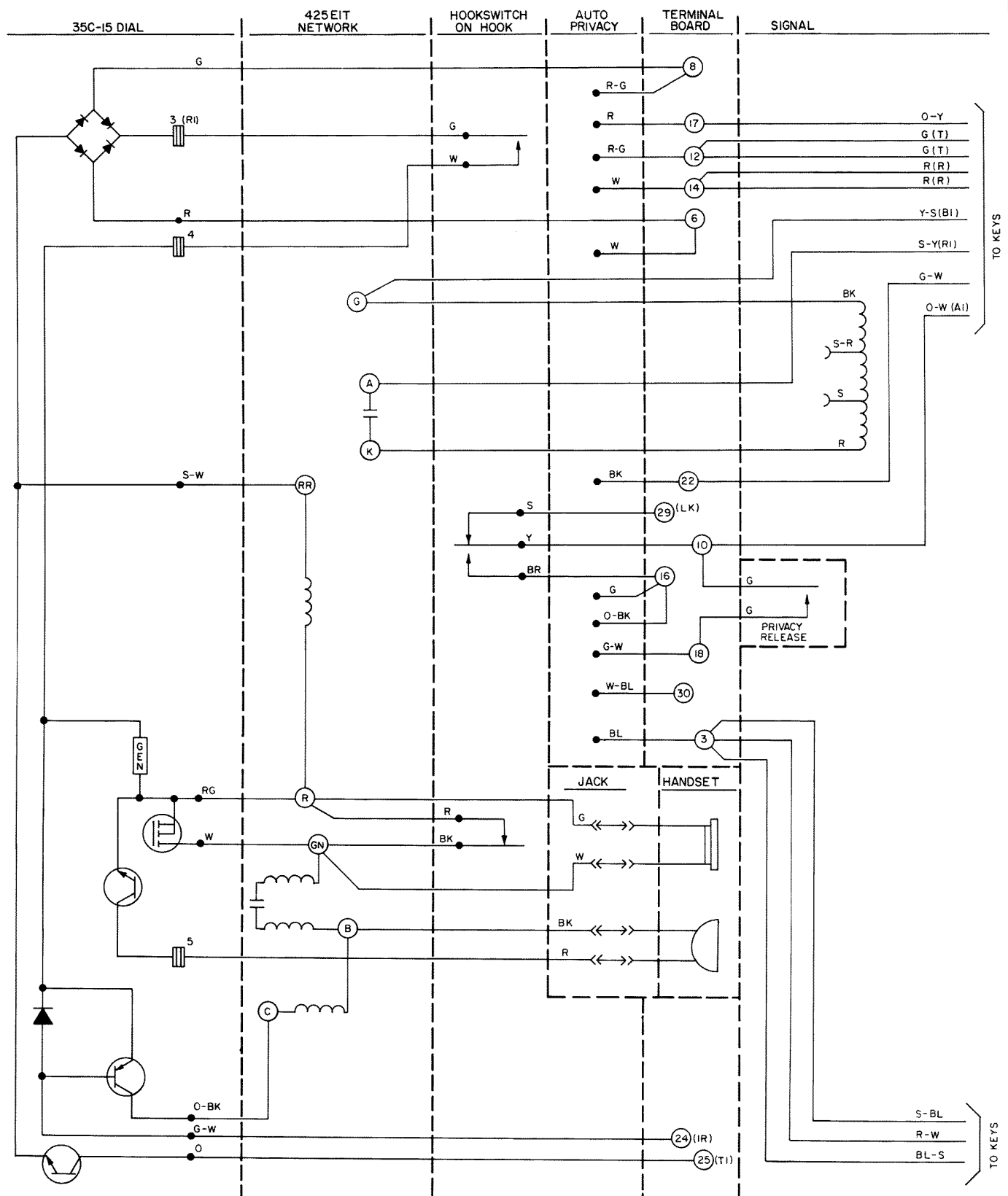
### 10/20 TYPE TELEPHONE (EXCEPT CODE 76)



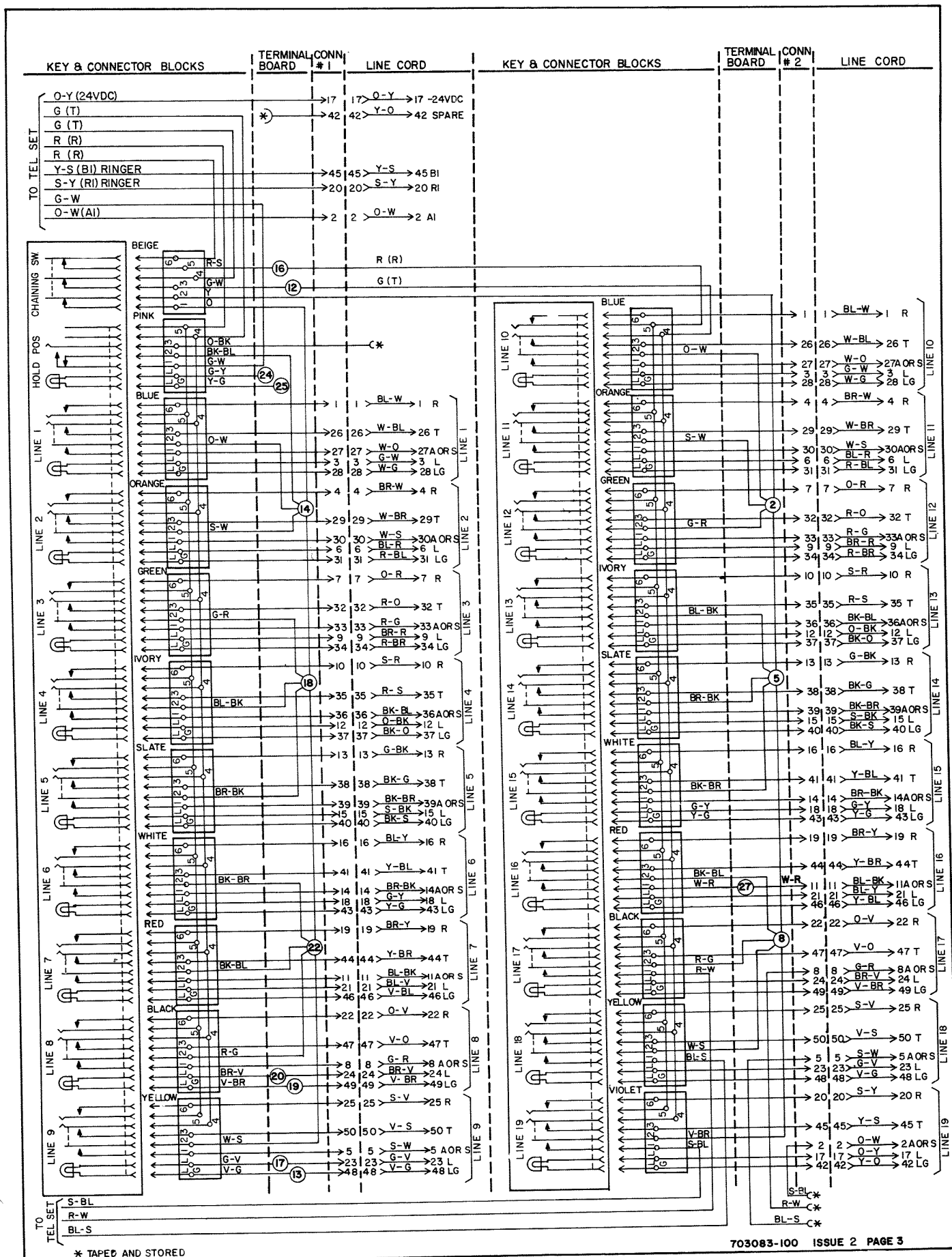
### HANDSFREE TELEPHONE (EXCEPT CODE 76)



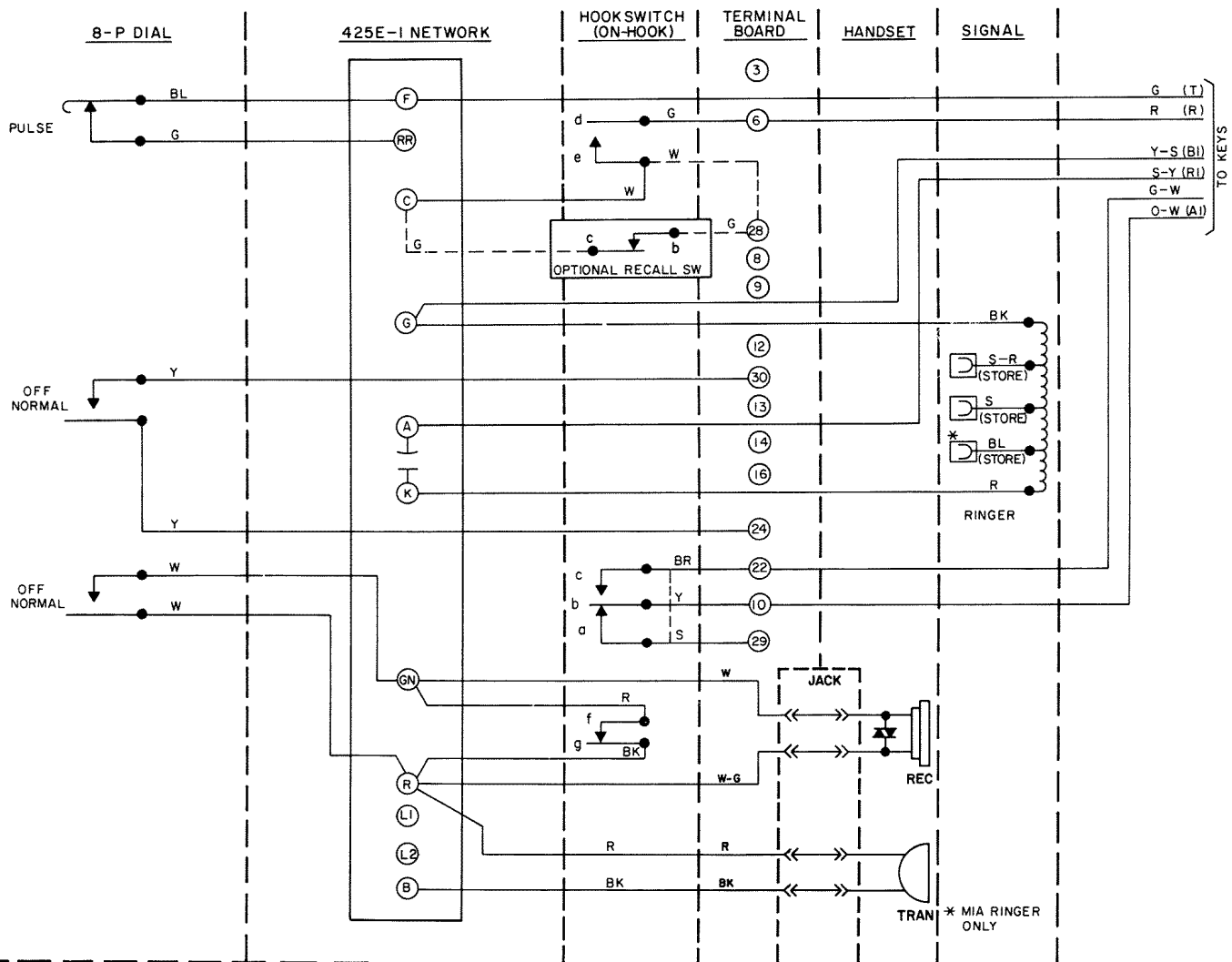
# 20-BUTTON SERIES TELEPHONE W/AUTO PRIVACY



- NOTES:
1. CONNECT STATIC SHIELD TO TERMINAL 10.
  2. DESIGNATIONS IN ( ) FOR SPEAKERPHONE CONNECTIONS.
  3. TO DEFEAT POLARITY GUARD, TURN SCREW CLOCKWISE UNTIL SNUG.



# 10-BUTTON SERIES TELEPHONE



## 10-BUTTON SERIES TELEPHONE (LESS PRIVACY) INCLUDES 0830-/2830-/2854- 42 - 46

### NOTES:

1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTIONS: WHEN CAPACITOR IS NOT REQUIRED. WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K" (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 BUZZERS).
2. OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - (A) AN 8-24 VAC BUZZER (Q-20, 703015-729 CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPARE (Y-O AND O-Y) PAIR AS REQUIRED.
  - (B) WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY.
 

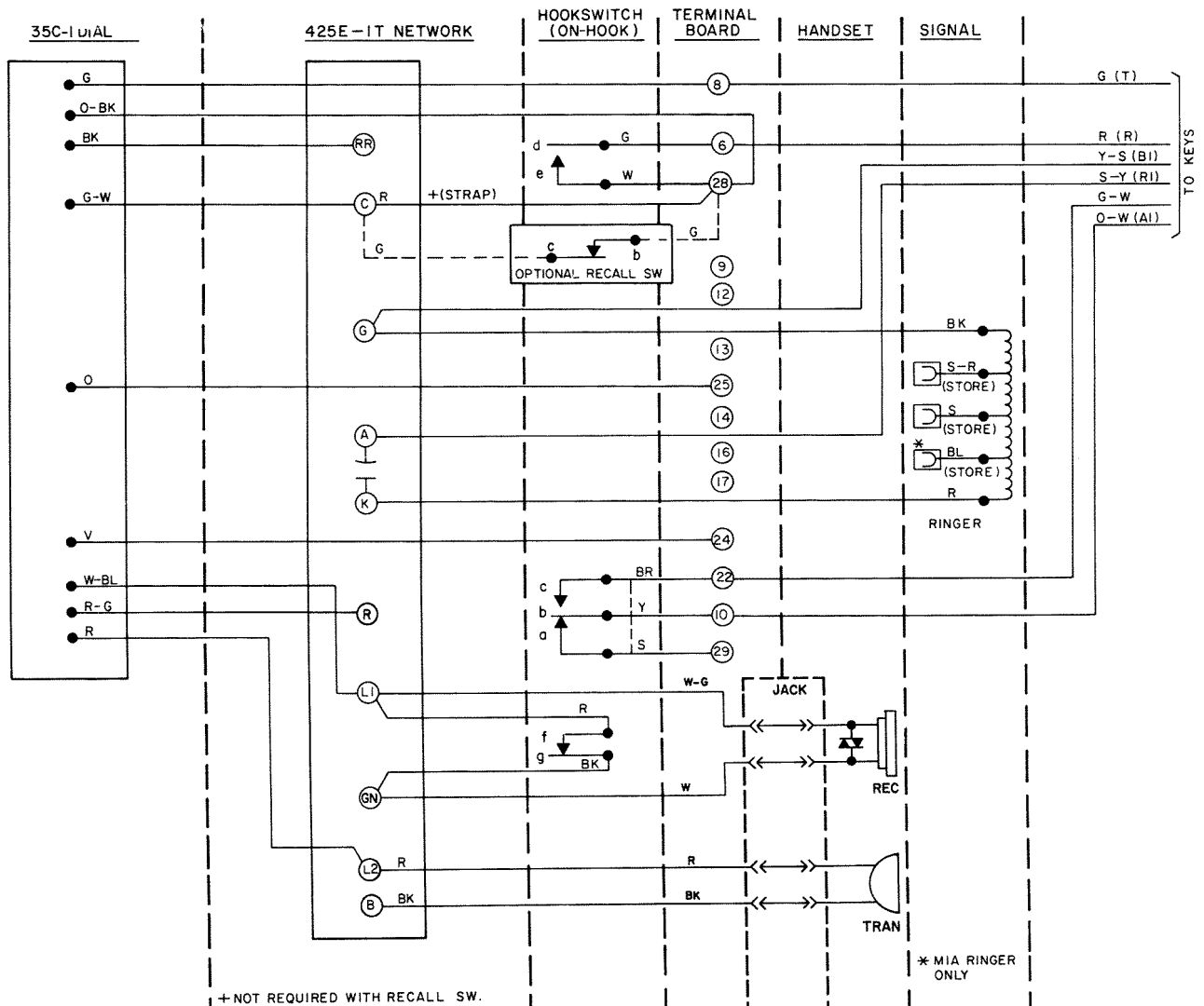
24 V LAMPS (24 VDC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-O LINE CORD LEAD TO 16 AND ADD DIODE 202852-138 AS SHOWN:

PIN 42 Y-O 16 22 G-W KEY  
BR HOOKSWITCH

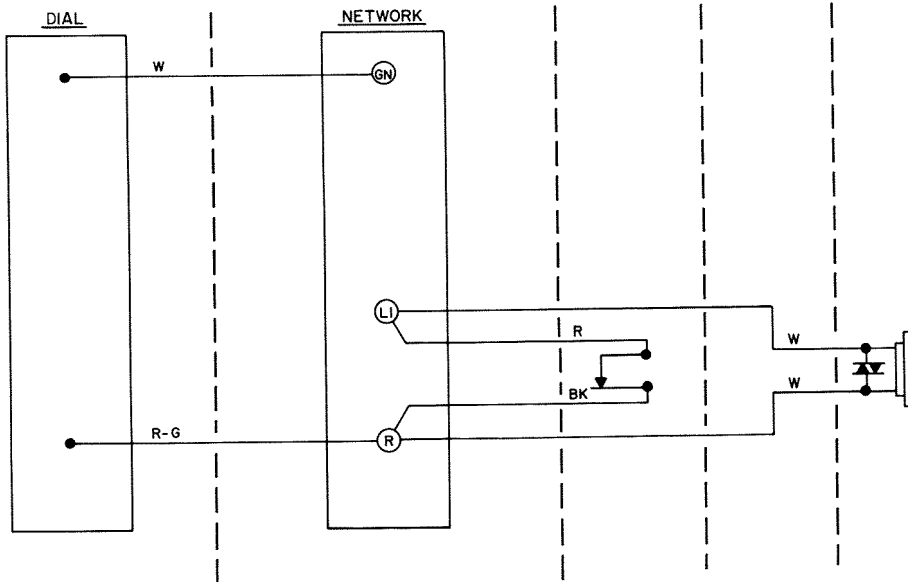
10 V LAMPS (18 VAC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-O LINE CORD LEAD TO 17 AND ADD DIODE ASSEMBLY 206012-254 AS SHOWN:

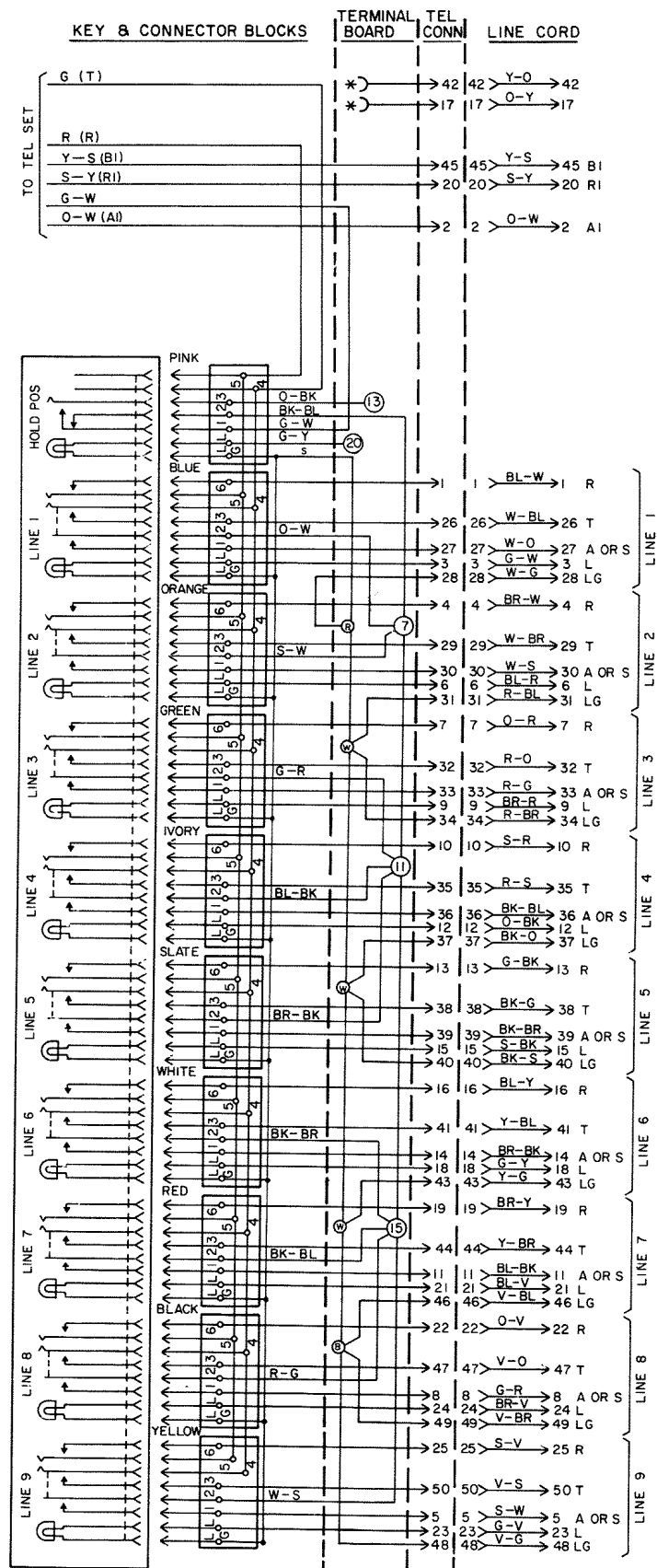
PIN 42 Y-O 17 22 G-W KEY  
BR HOOKSWITCH
3. TO CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION, MOVE ASSOCIATED SIGNAL LEAD (O-W, S-W, G-R, BL-BK, BK-BR, BR-BK, BK-BL, R-G OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 26. CONNECT O-Y LINE CORD LEAD TO TERMINAL 26.
4. THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONE, ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
5. TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESS-ED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
6. FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 81-269-72.

# 10-BUTTON SERIES TELEPHONE



PHONES EQUIPPED WITH 35C3AP DIALS-CONNECT AS ABOVE EXCEPT AS SHOWN BELOW

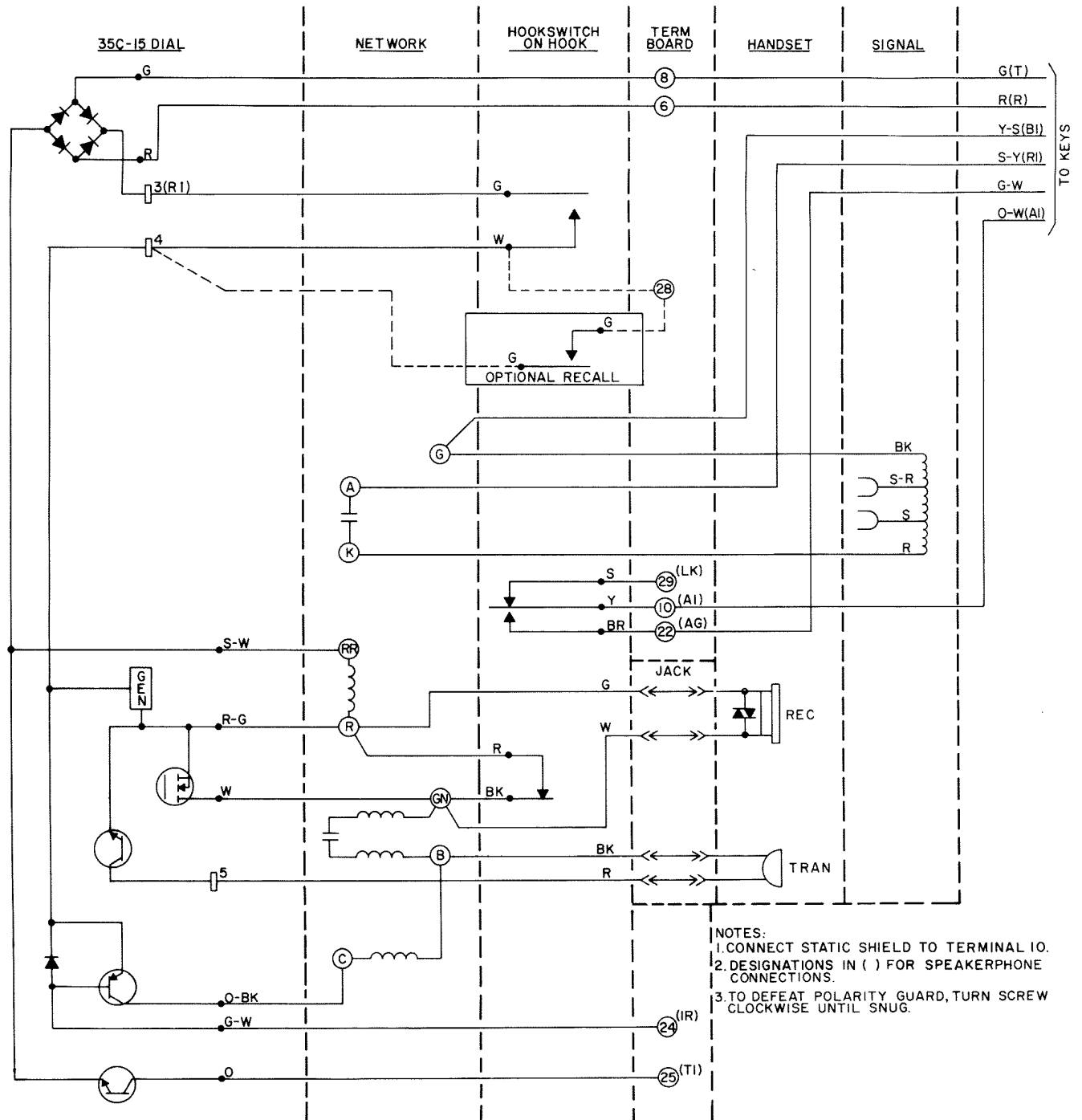




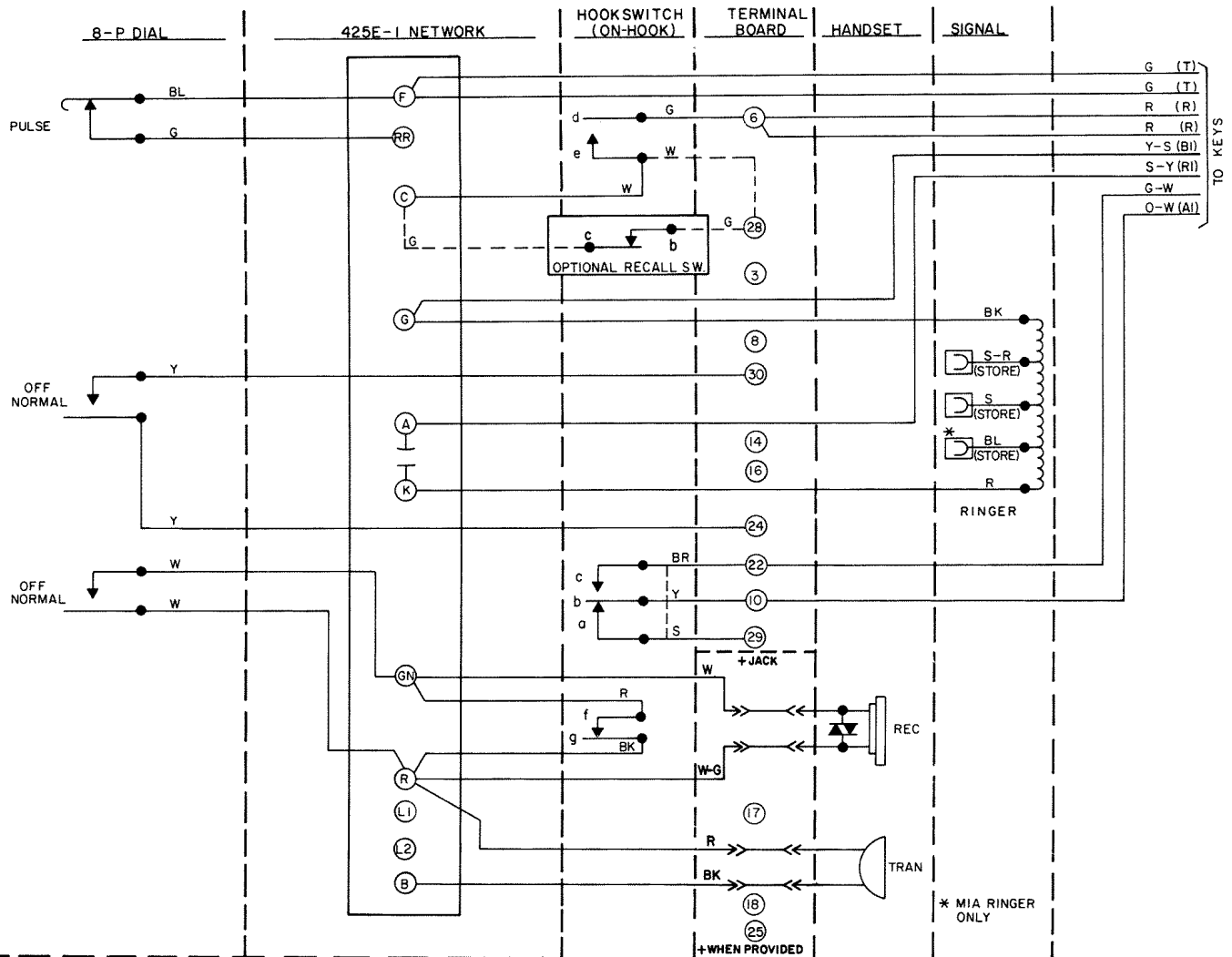
\* TAPED AND STORED

703083-300 ISSUE 10 PAGE 3

# 10 BUTTON SERIES TELEPHONE



# 20-BUTTON SERIES TELEPHONE



## 20-BUTTON SERIES TELEPHONE (LESS PRIVACY) INCLUDES 0831/2831-42-46

### NOTES:

- CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTIONS: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).
- OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPARE (Y-O AND O-Y) PAIR AS REQUIRED.
  - WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY.
 

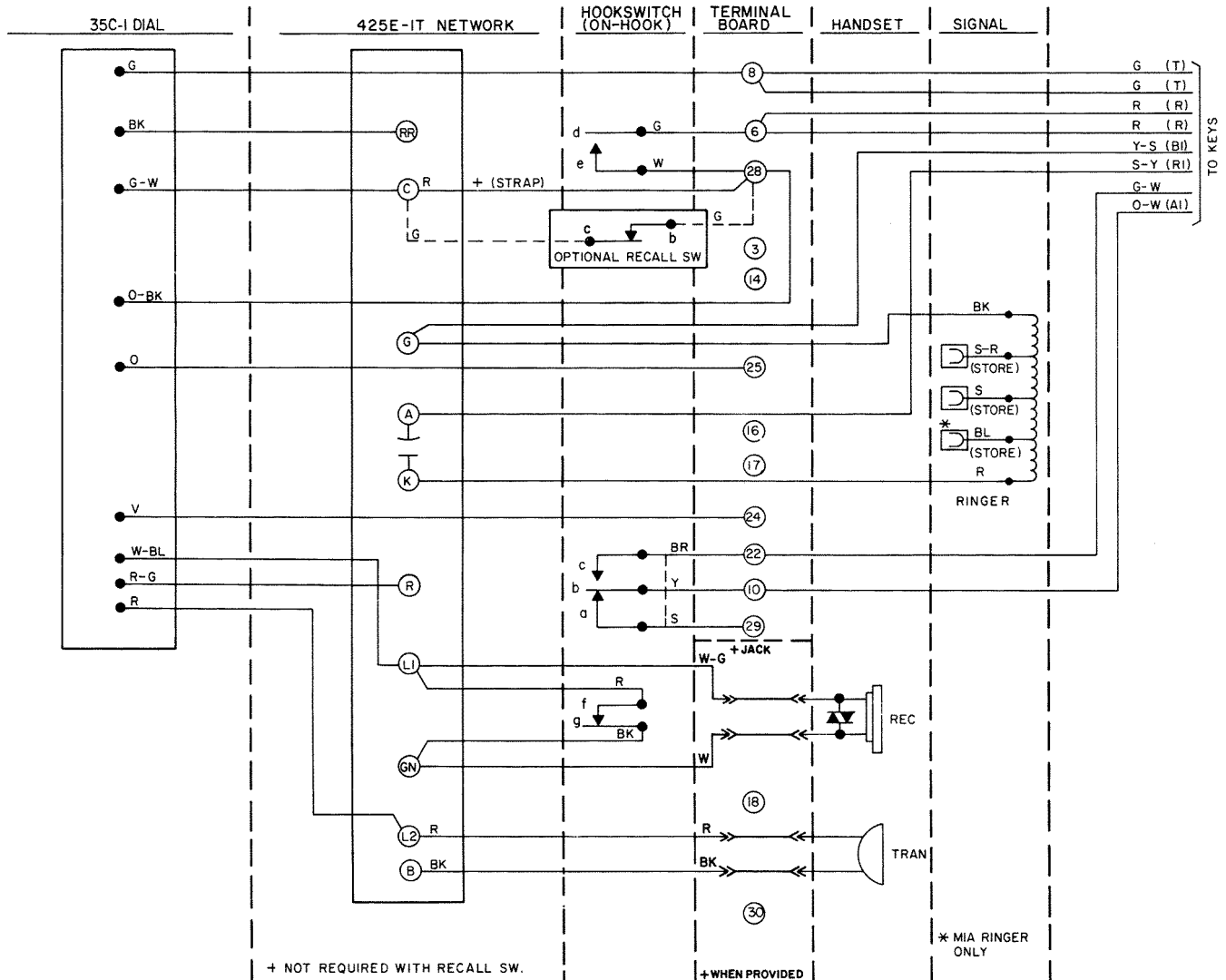
24 V LAMPS (24 VDC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-O LINE CORD LEAD TO 16 AND ADD DIODE 202852-138 AS SHOWN:

PIN 42 Y-O 16 22 G-W KEY  
BR HOOKSWITCH

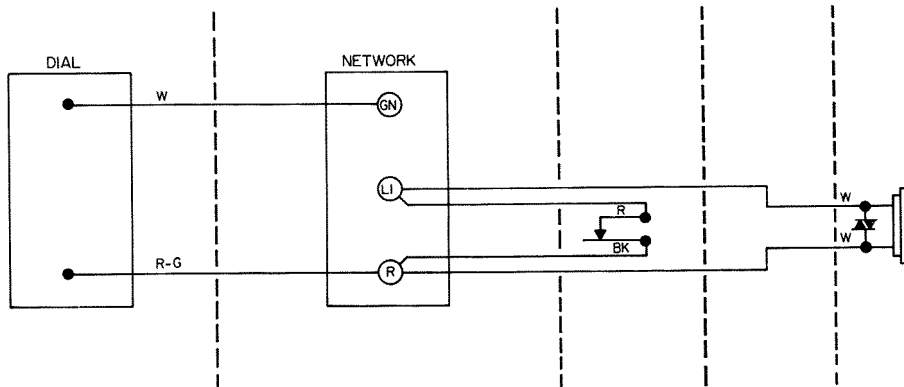
10 V LAMPS (18 VAC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-O LINE CORD LEAD TO 17 AND ADD DIODE ASSEMBLY 206012-254 AS SHOWN:

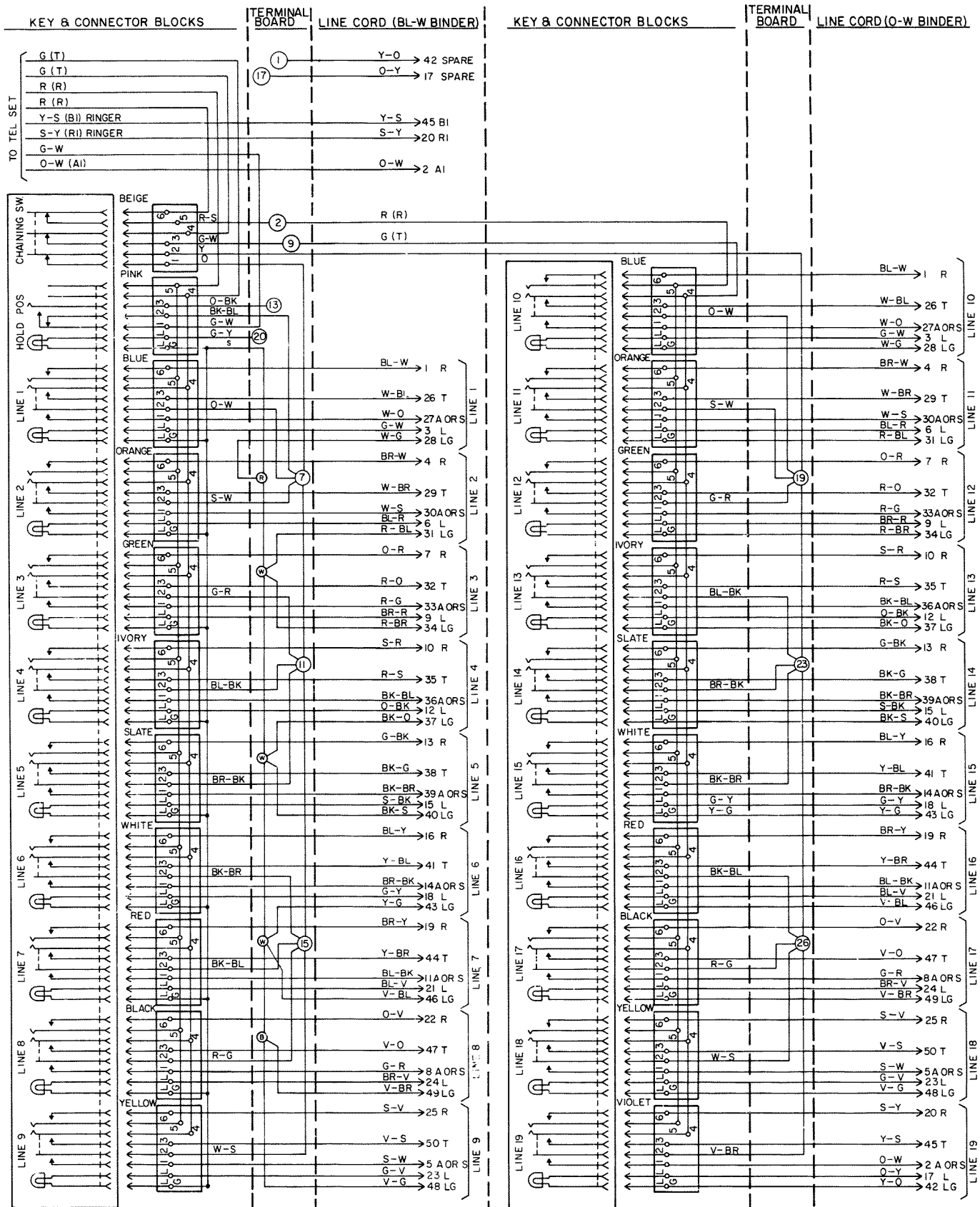
PIN 42 Y-O 17 S 22 G-W KEY  
BK 16 BR HOOKSWITCH
  - TO CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED SIGNAL LEAD (O-W, S-W, G-R, BL-BK, BK-BR, BR-BK, BK-BL, R-G OR W-S FROM FACTORY WIRED TERMINALS TO TERMINAL 27. CONNECT O-Y LINE CORD LEAD TO TERMINAL 27.
  - THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONE, ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
  - TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
  - FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 81-269-72.

# 20-BUTTON SERIES TELEPHONE



PHONES WITH 35A3AP DIALS-CONNECT AS ABOVE EXCEPT AS SHOWN BELOW.

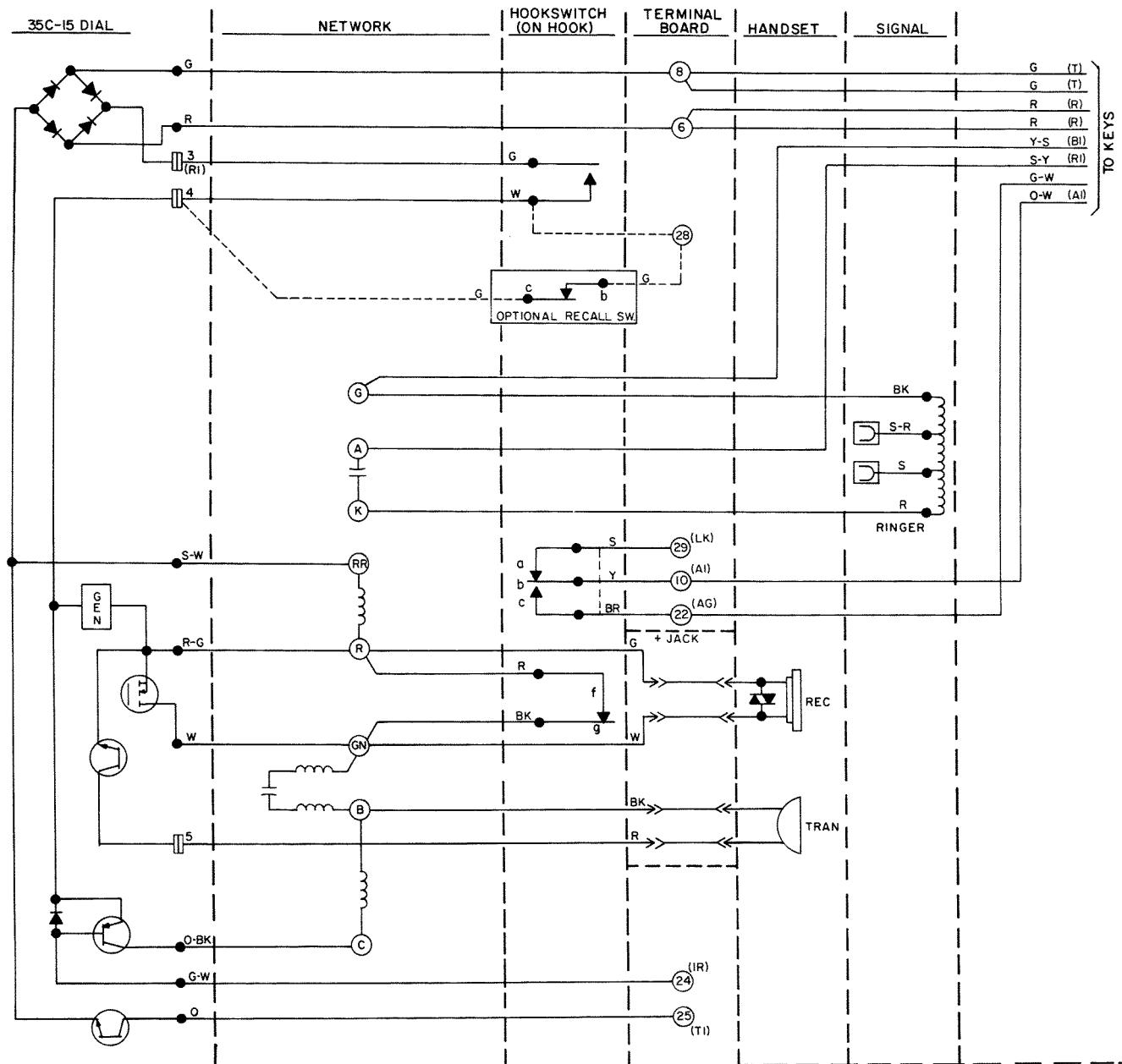




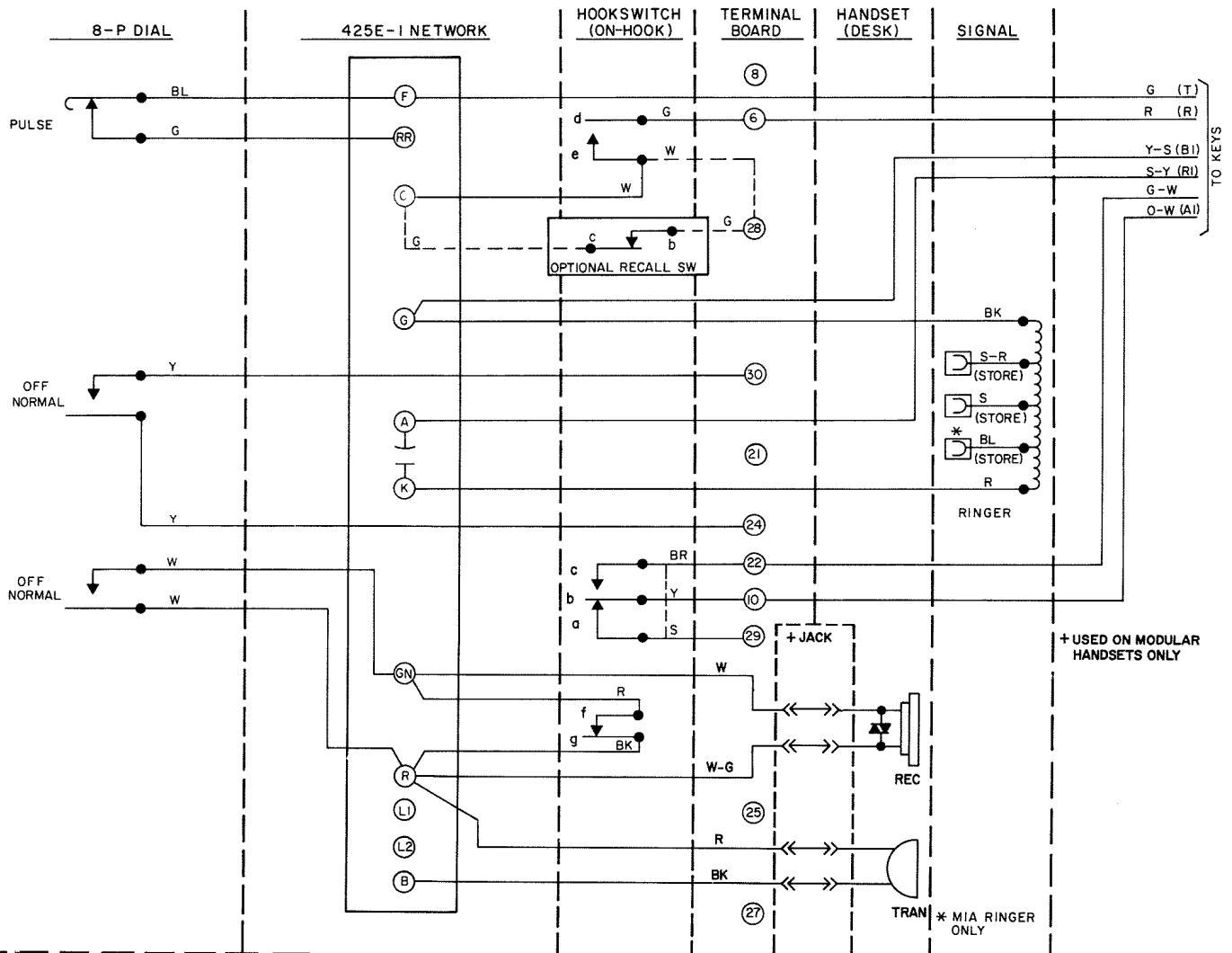
\* TAPED AND STORED

703083-700 ISSUE 9 PAGE 3

# 20-BUTTON SERIES TELEPHONE



# 6-BUTTON SERIES TELEPHONE



6-BUTTON SERIES TELEPHONE (LESS PRIVACY)  
INCLUDES 0864/2864-42-46

## NOTES:

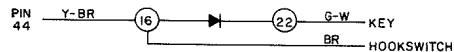
1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTIONS: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 BUZZERS).

## 2. OPTIONS

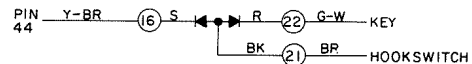
- (A). AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPADE (Y-0 AND O-Y) PAIR AS REQUIRED.

- (B). WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY.

24 V LAMPS (24 VDC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-BR LINE CORD LEAD TO 16 AND ADD DIODE 202852-138 AS SHOWN:



10 V LAMPS (18 VAC POWER): MOVE BRN HOOKSWITCH LEAD FROM 22 TO 21. CONNECT Y-BR LINE CORD LEAD TO 16 AND ADD DIODE 206012-254 AS SHOWN:

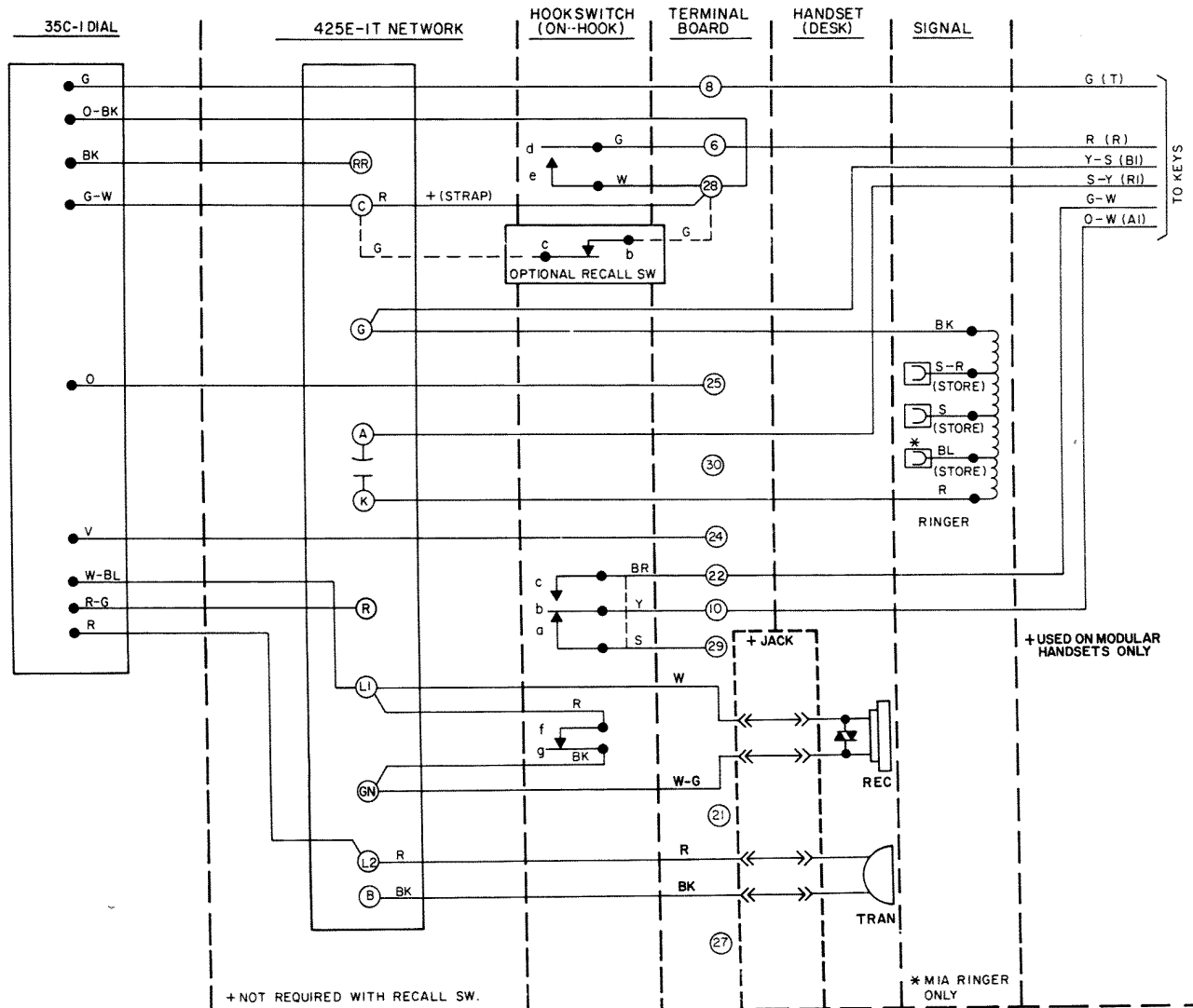


- (C). CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION MOVE ASSOCIATED SIGNAL LEAD (O-W, W-S, G-R, BL-BK, BR-BK) FROM FACTORY WIRED TERMINALS TO TERMINAL 18.

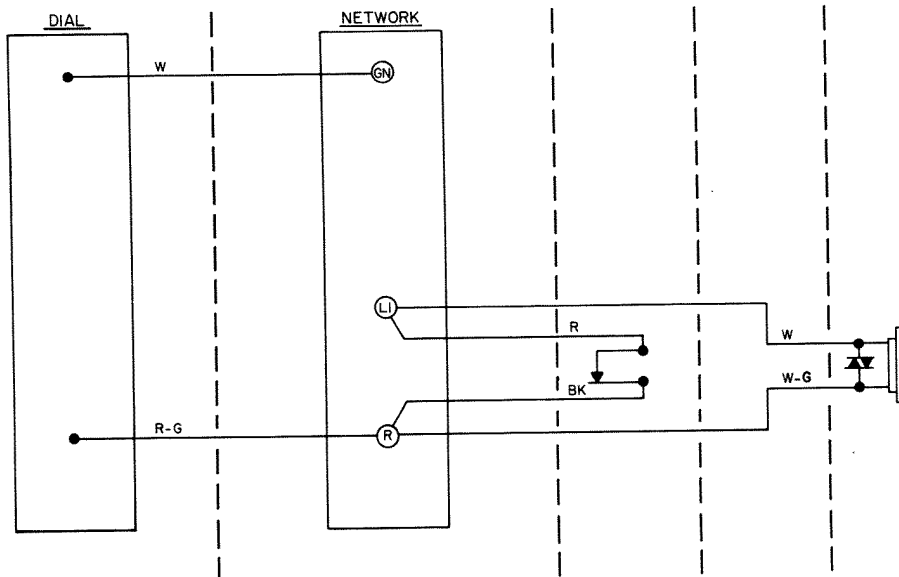
3. TO DISABLE BUTTON RESTORATION TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.

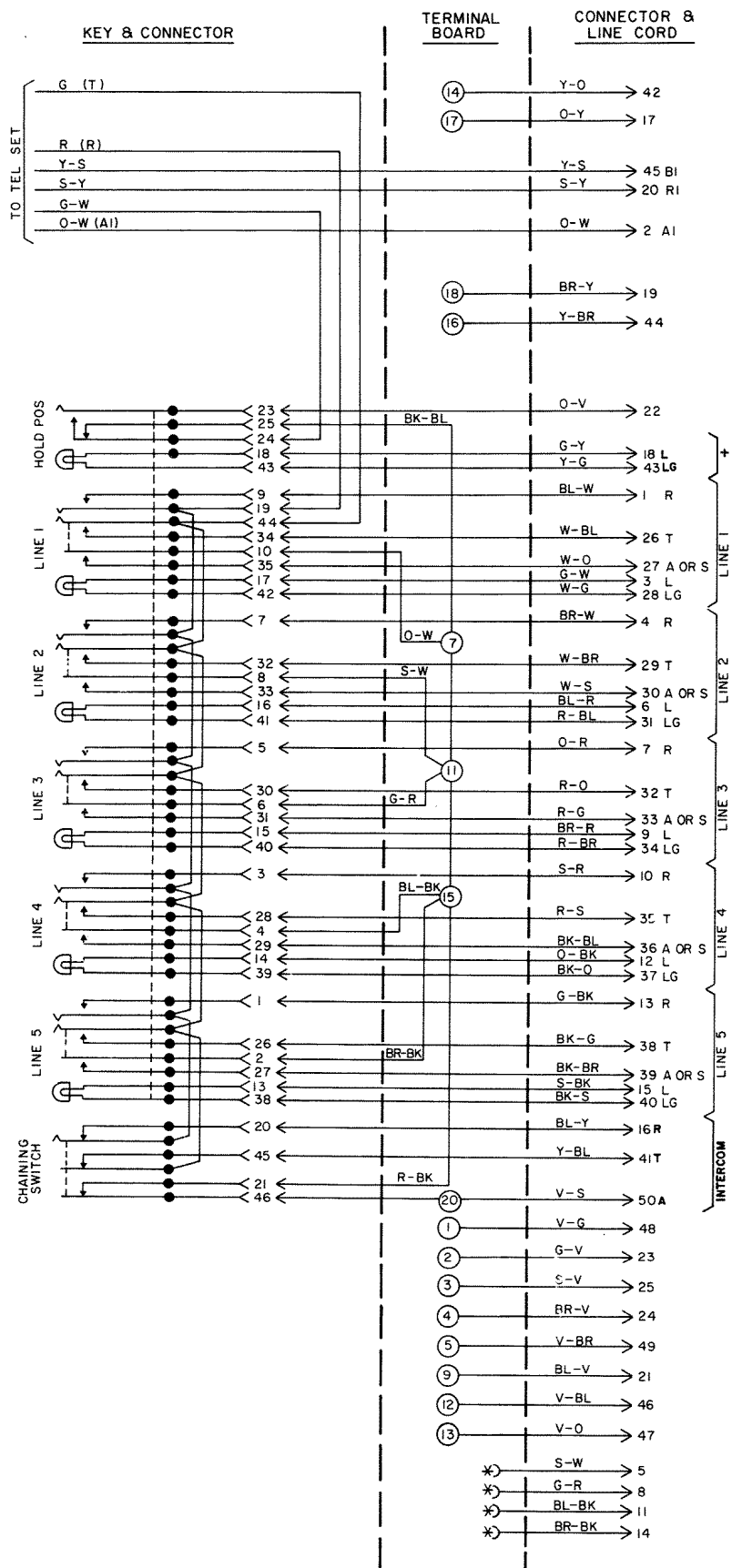
4. FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 81-067-72.

# 6-BUTTON SERIES TELEPHONE



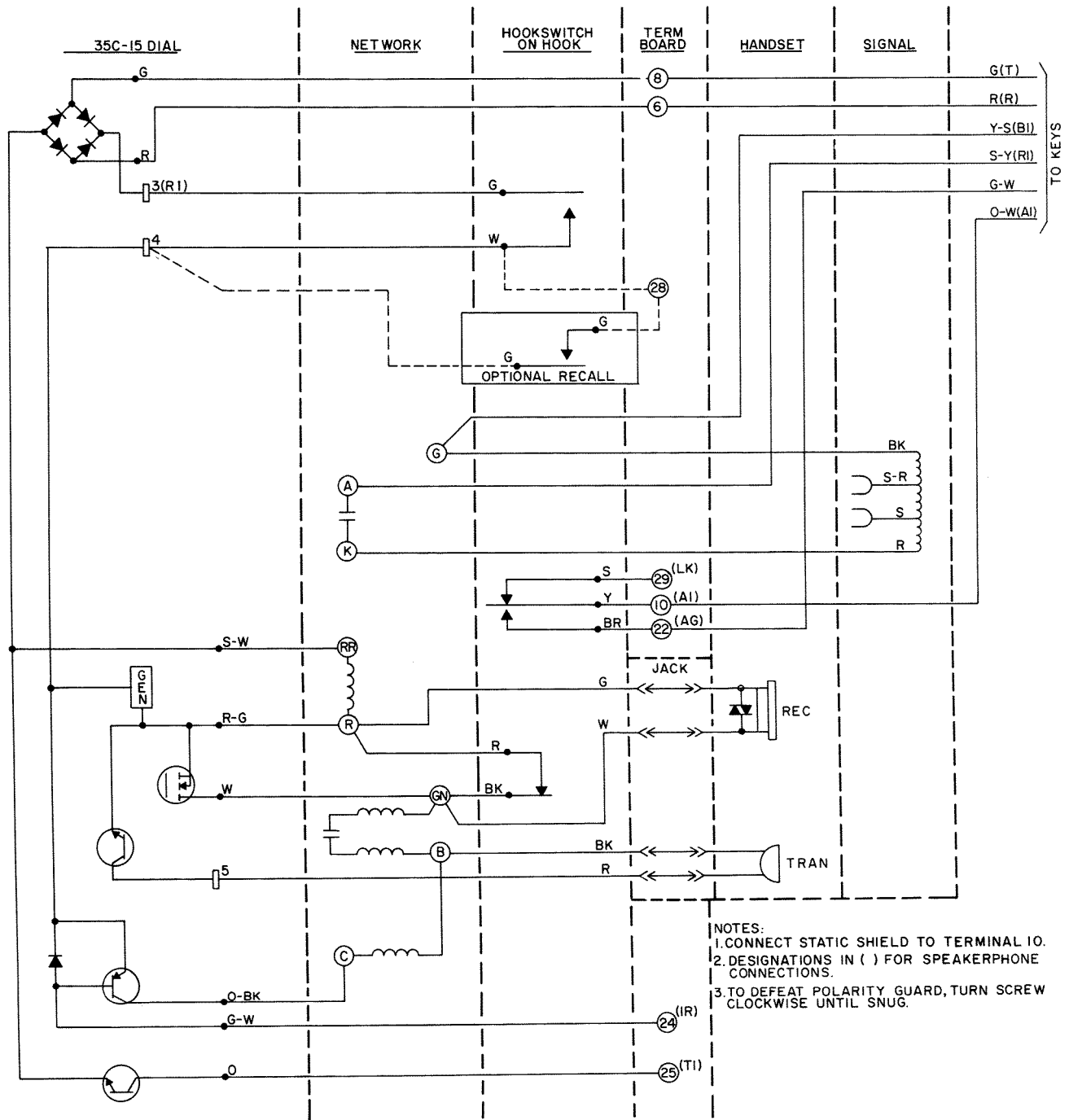
PHONES EQUIPPED WITH 35C3AP DIALS-CONNECT AS ABOVE EXCEPT AS SHOWN BELOW





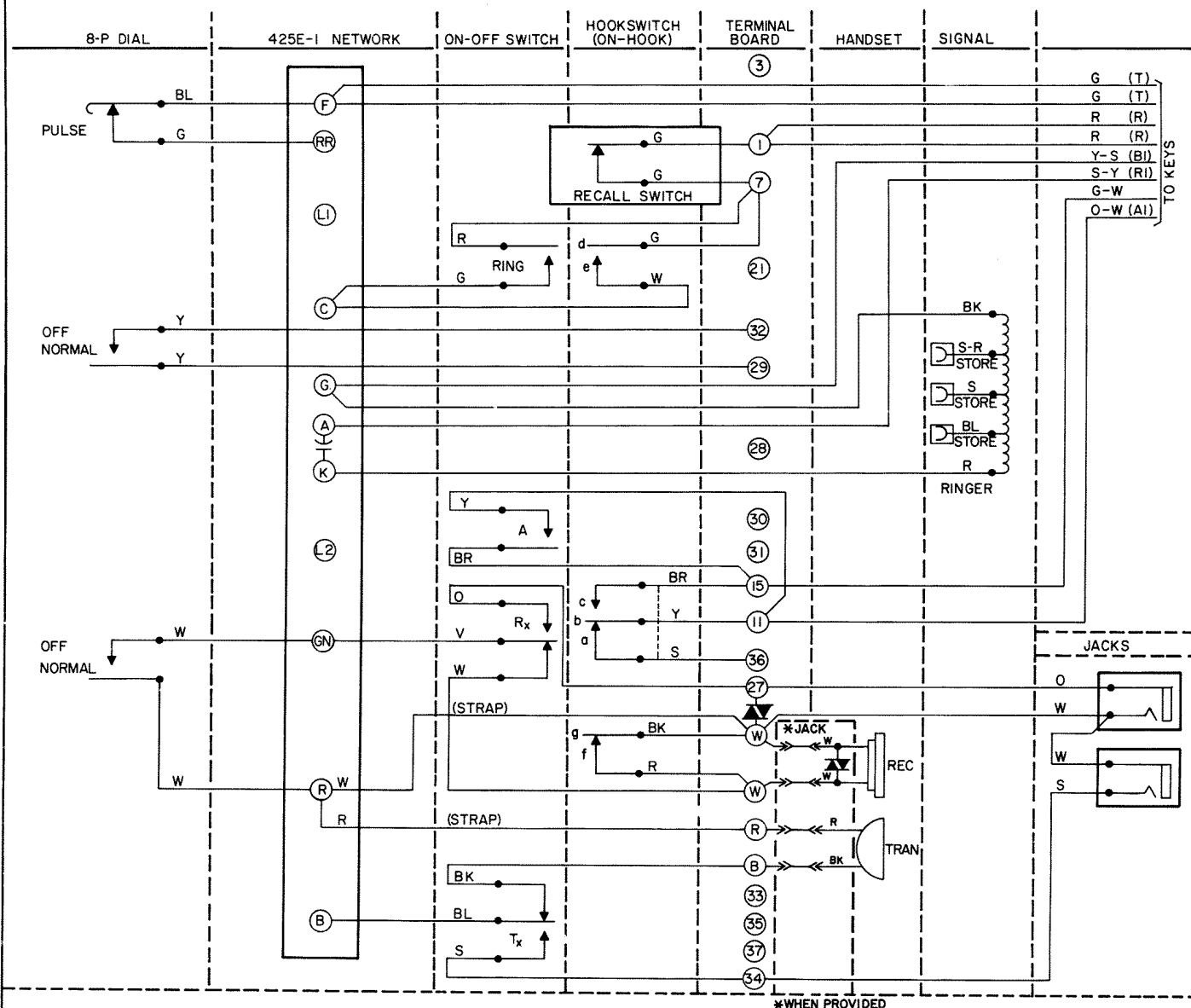
\* TAPED AND STORED  
+ USE IF INTERCOM LAMP IS NEEDED

# 6 BUTTON SERIES TELEPHONE



- NOTES:
1. CONNECT STATIC SHIELD TO TERMINAL 10.
  2. DESIGNATIONS IN ( ) FOR SPEAKERPHONE CONNECTIONS.
  3. TO DEFEAT POLARITY GUARD, TURN SCREW CLOCKWISE UNTIL SNUG.

### 30-BUTTON SERIES TELEPHONE



30 - BUTTON SERIES TELEPHONE (LESS PRIVACY) INCLUDES 0861/2861

## NOTES:

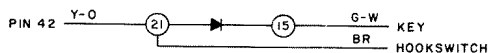
1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED. WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).

2. OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.

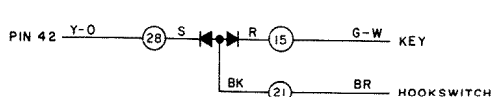
- (A). AN 8-24 VAC BUZZER ( Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPARE (Y-O AND O-Y) PAIR AS REQUIRED.

- (B). WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY.

24 V LAMPS (24 VDC POWER): MOVE BRN HOOKSWITCH LEAD FROM 15 TO 21. CONNECT Y-O LINE CORD LEAD TO 21 AND ADD DIODE 202852-138 AS SHOWN:



10 V LAMPS (18 VAC POWER): MOVE BRN HOOKSWITCH LEAD FROM 15 TO 21  
CONNECT Y-O LINE CORD LEAD TO 28 AND ADD DIODE ASSEMBLY 206012-254  
AS SHOWN.



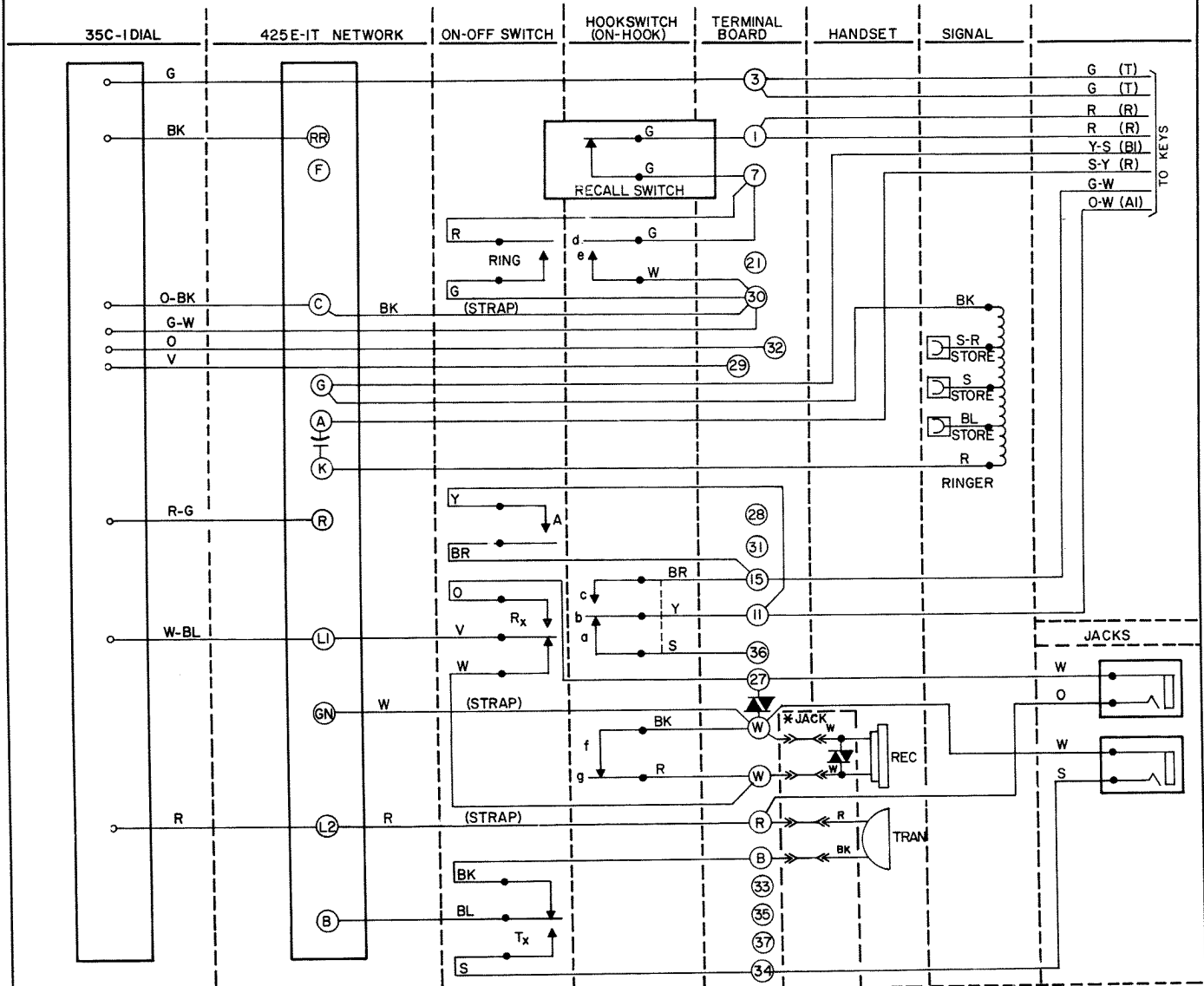
- (C). TO CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED SIGNAL LEAD (P-W, S-W, G-R, BL-BK, BK-BR, BR-BK, BK-BL, R-G, OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 37. CONNECT O-Y LINE CORD LEAD TO TERMINAL 37.

- (D). THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONE, ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.

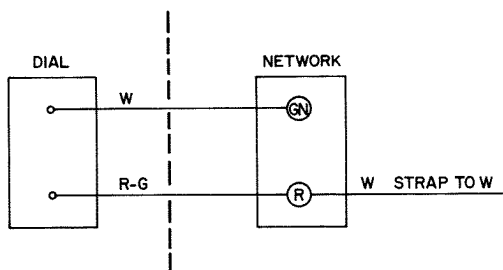
3. TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.

4. FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 21-269-72.

# 30-BUTTON SERIES TELEPHONE



PHONES WITH 35C3AP DIALS - CONNECT AS ABOVE EXCEPT AS SHOWN BELOW.



# KEY NO.1 & CONNECTOR BLOCKS

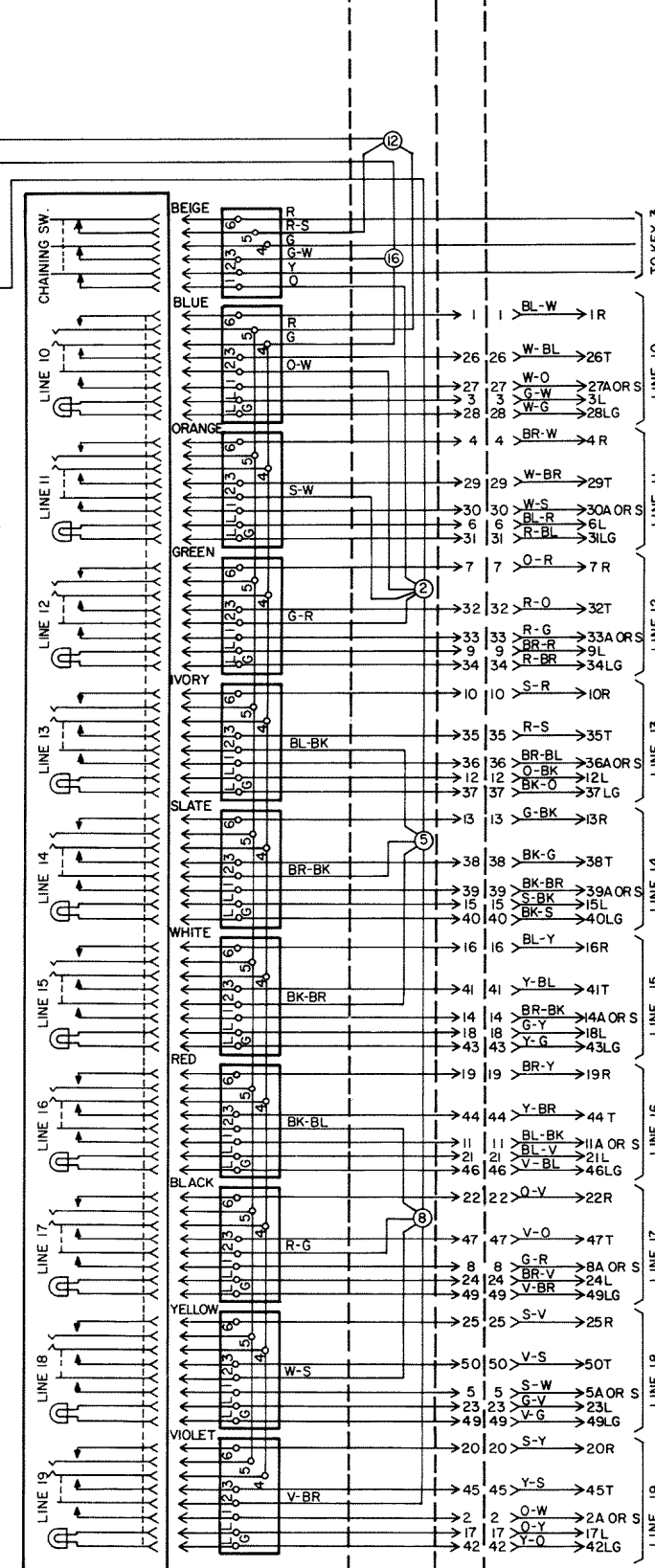
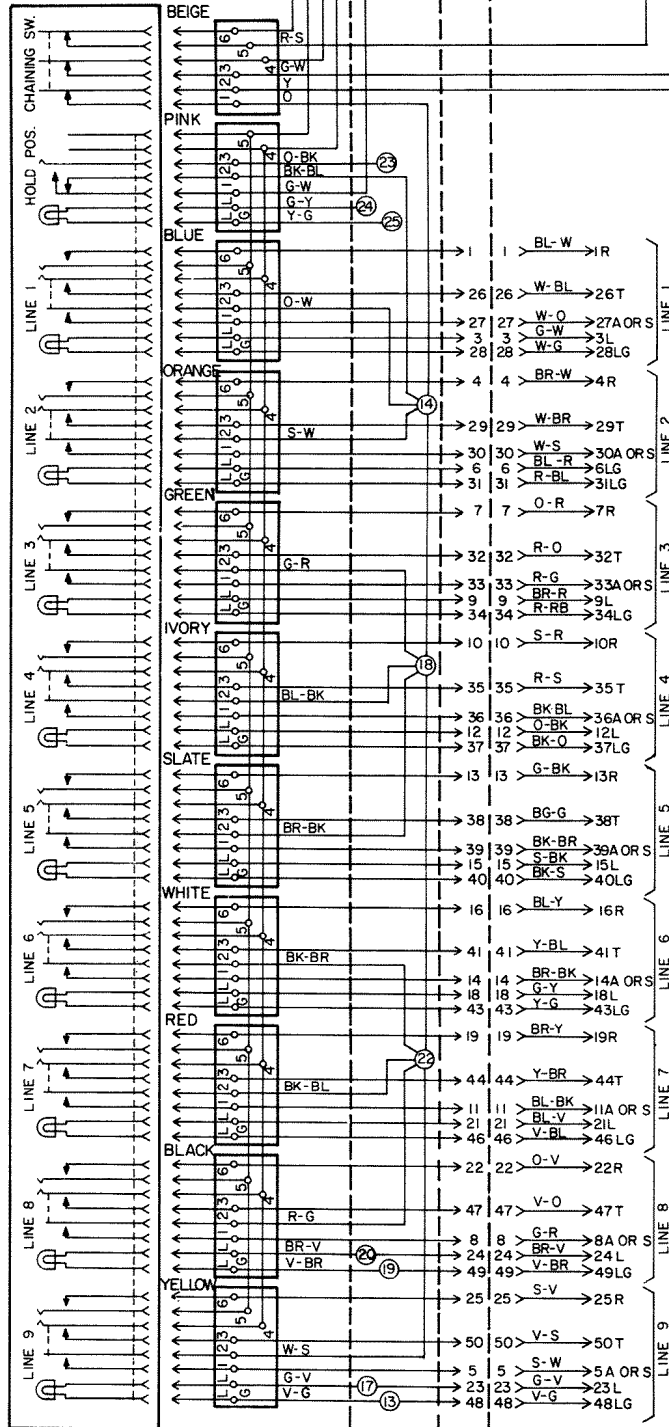
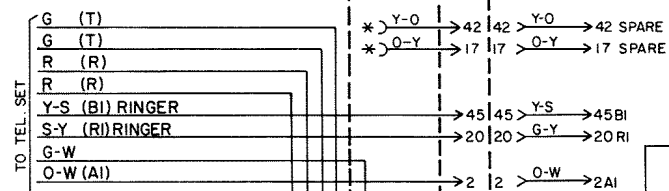
## TERMINAL BOARD #1

### LINE CORD

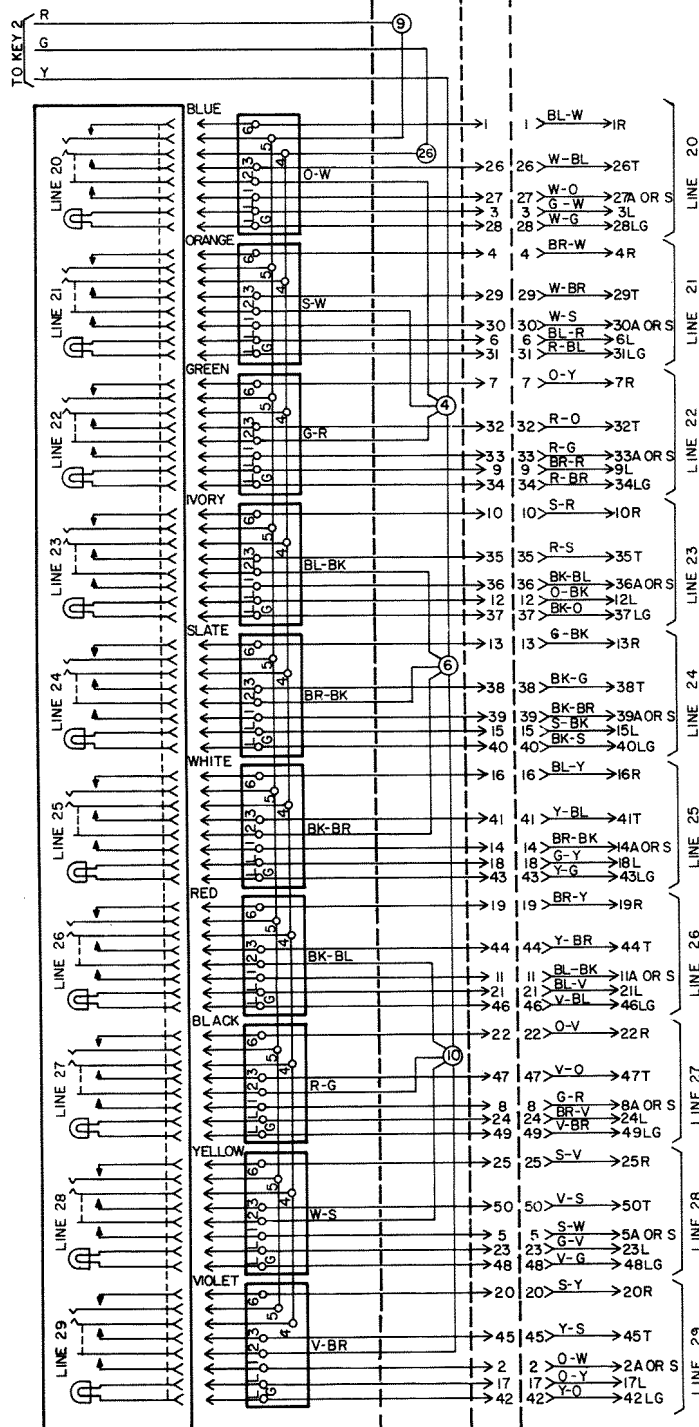
# KEY NO.2 & CONNECTOR BLOCKS

## TERMINAL BOARD #2

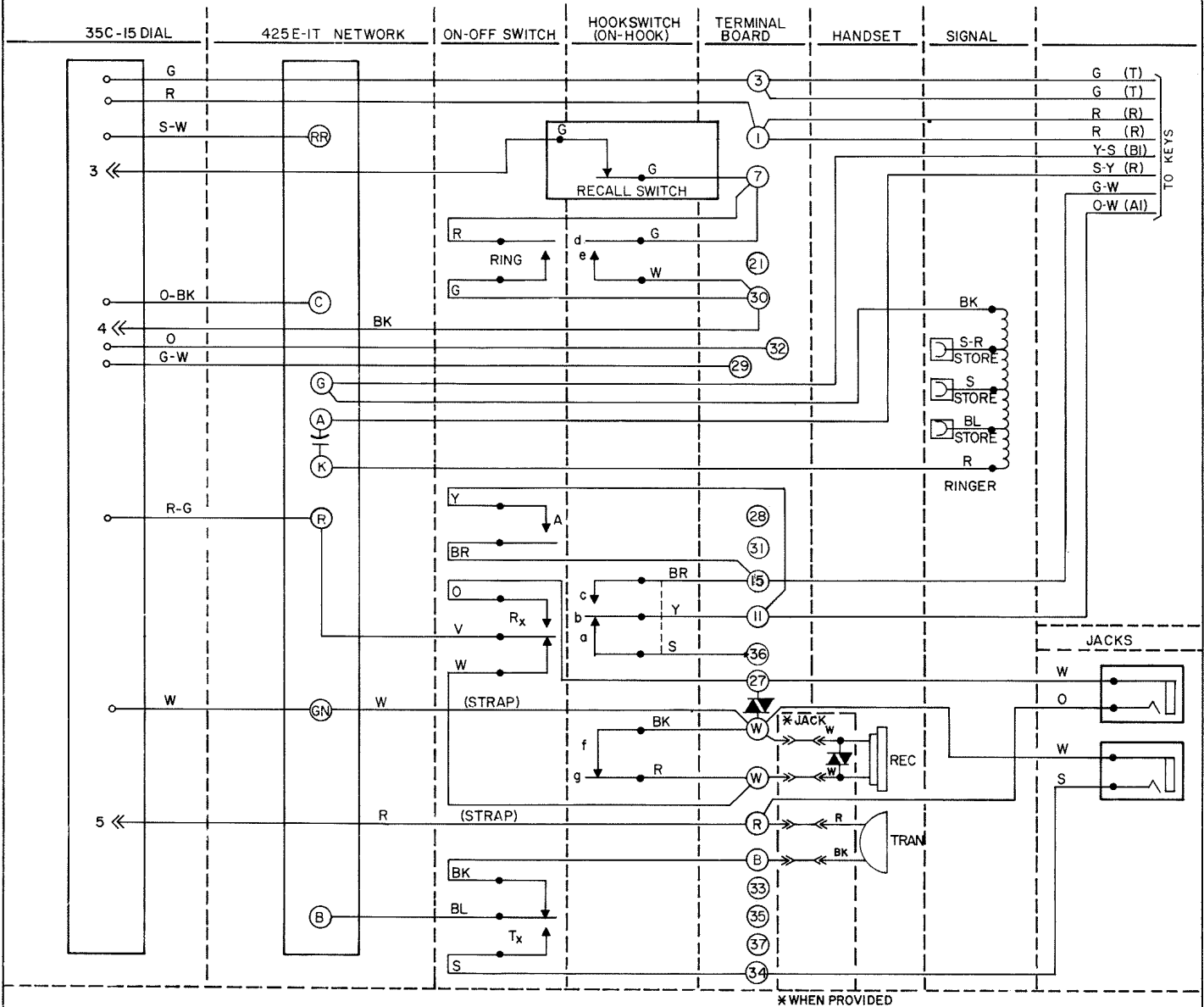
### LINE CORD



KEY NO.3 & CONNECTOR BLOCKS      TERMINAL BOARD      LINE CORD

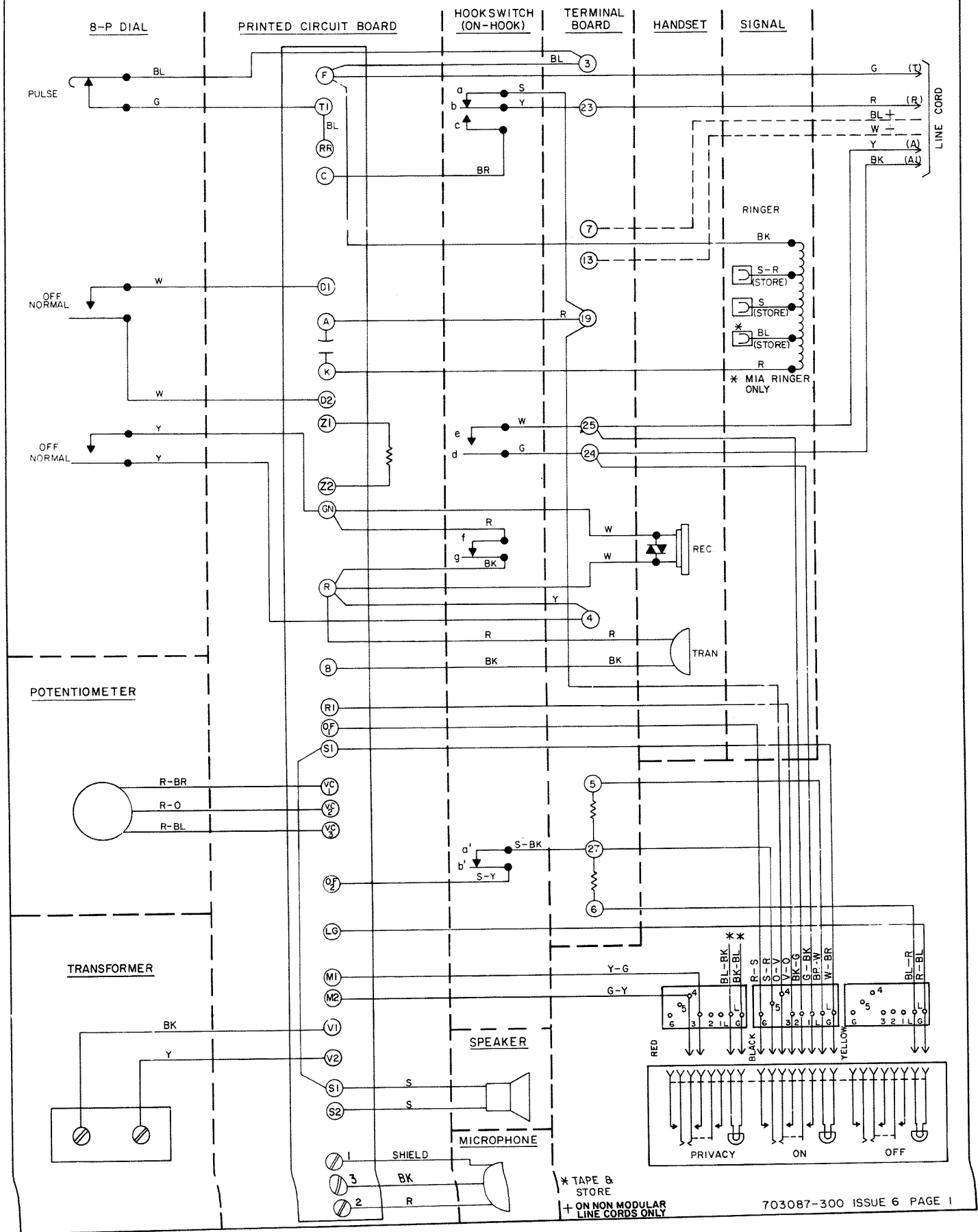


# 30-BUTTON SERIES TELEPHONE

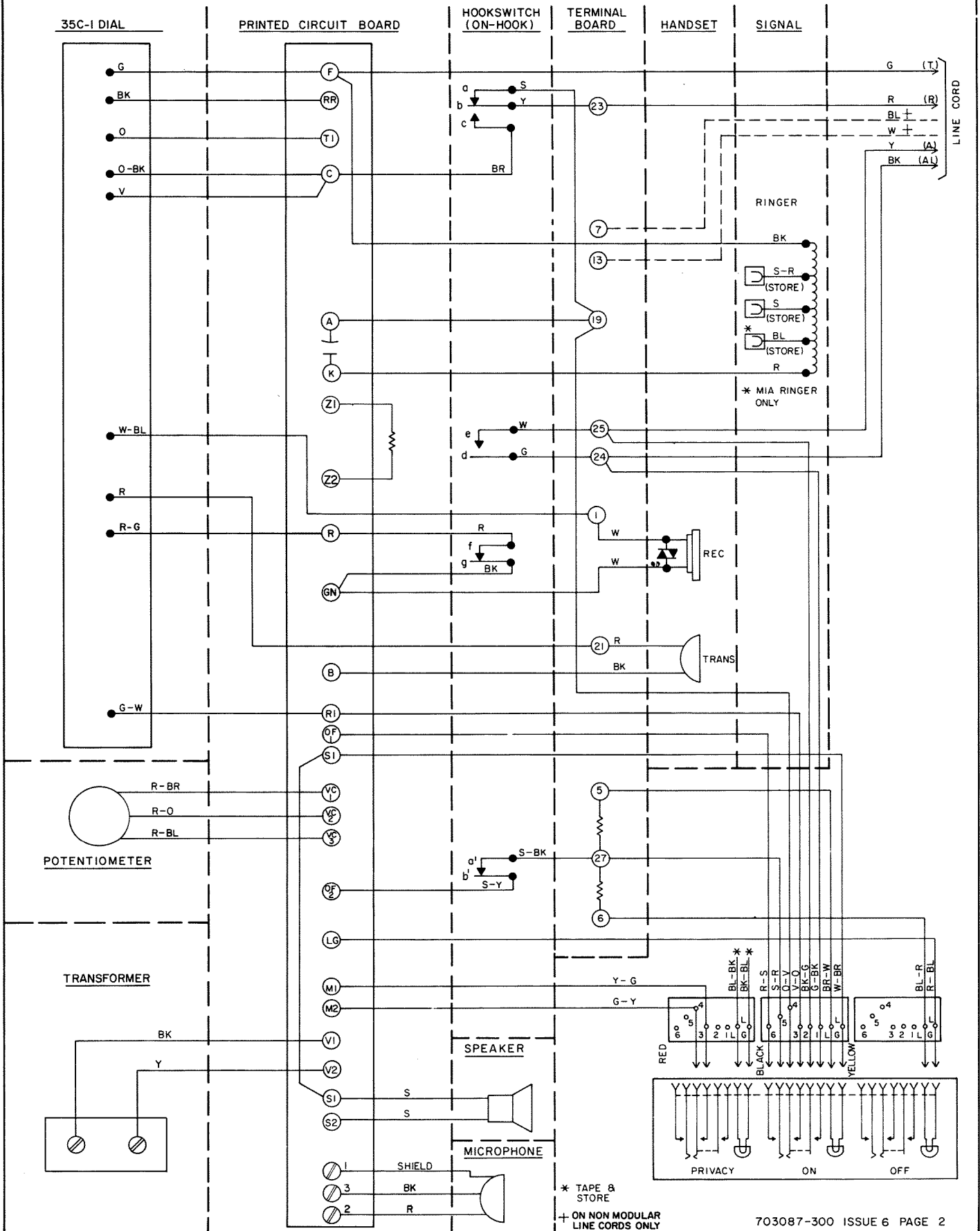


1. CONNECT STATIC SHIELD TO TERMINAL 11.
2. TO DEFEAT POLARITY GUARD TURN SCREW CLOCK WISE UNTILL SNUG.

# 0844 - HANDS FREE TELEPHONE

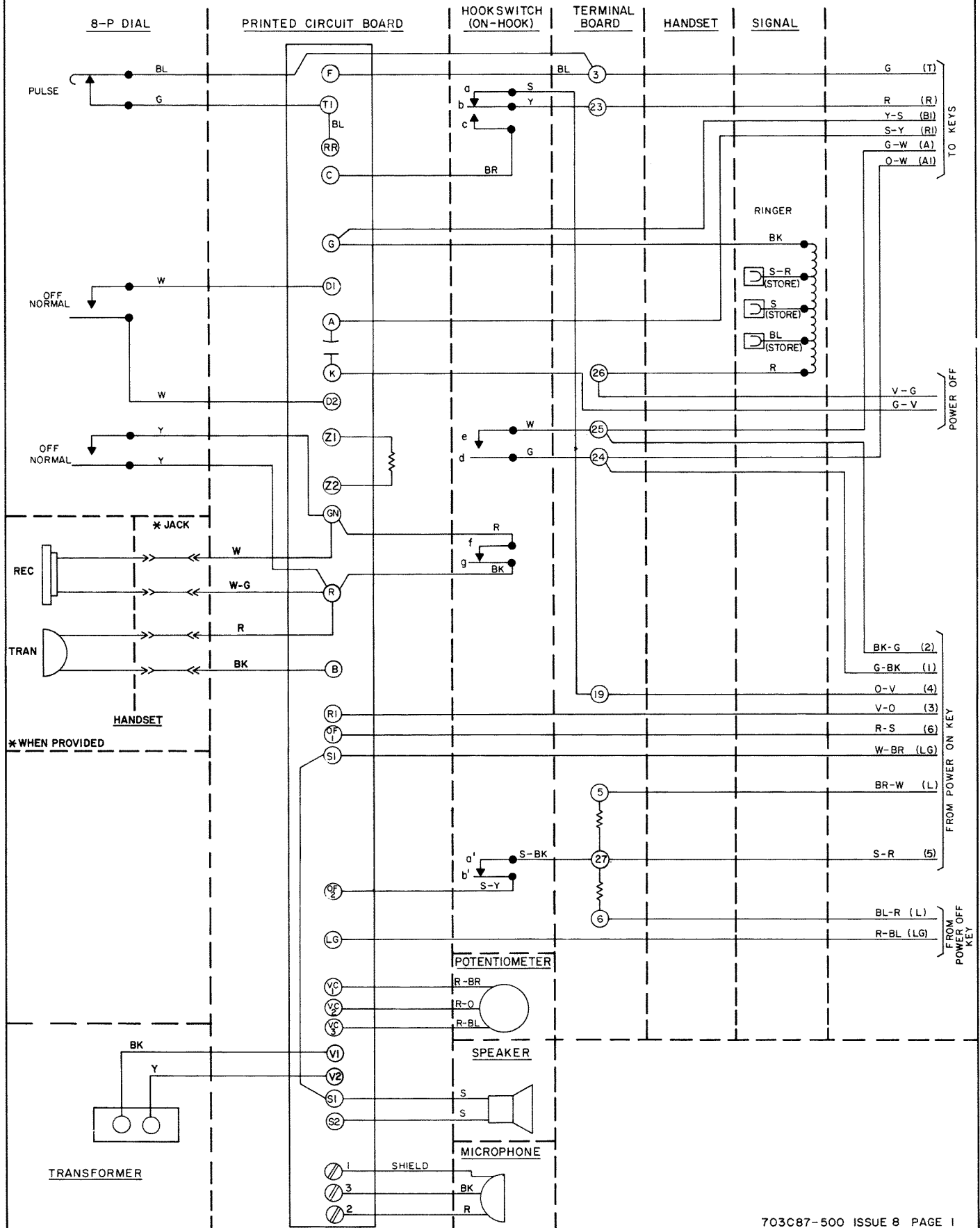


703087-300 ISSUE 6 PAGE 1



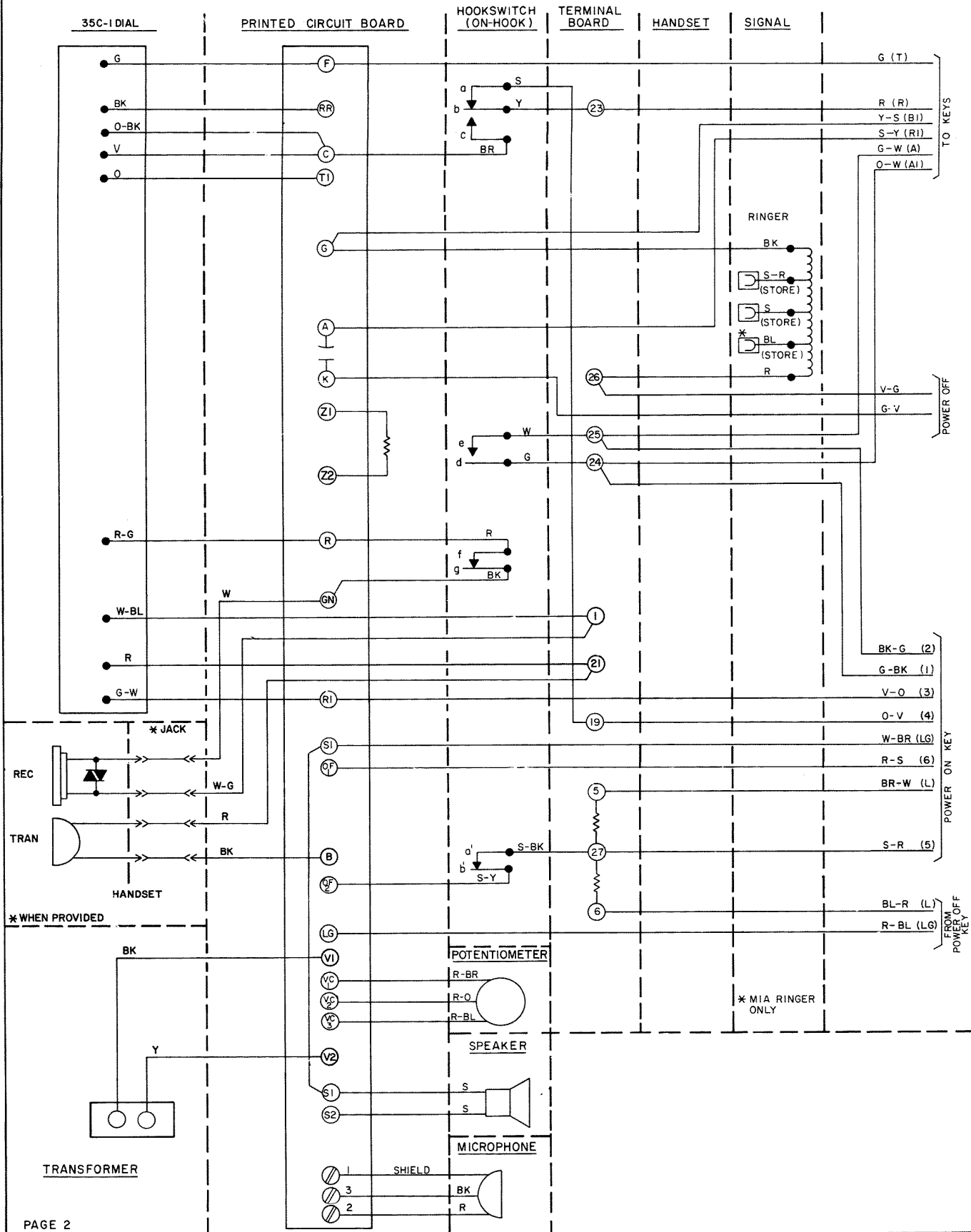


# 0842 - HANDS FREE TELEPHONE



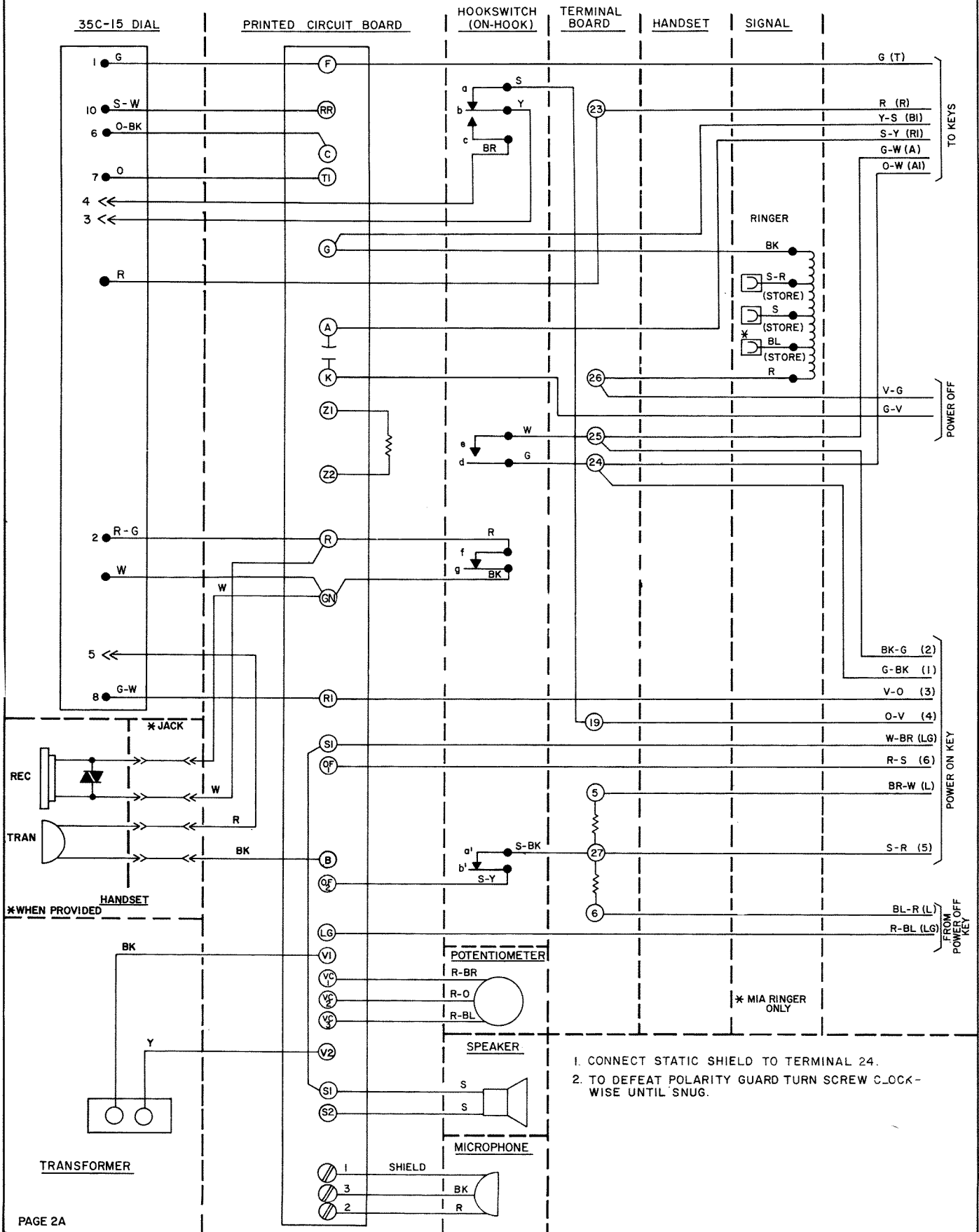
703087-500 ISSUE 8 PAGE 1

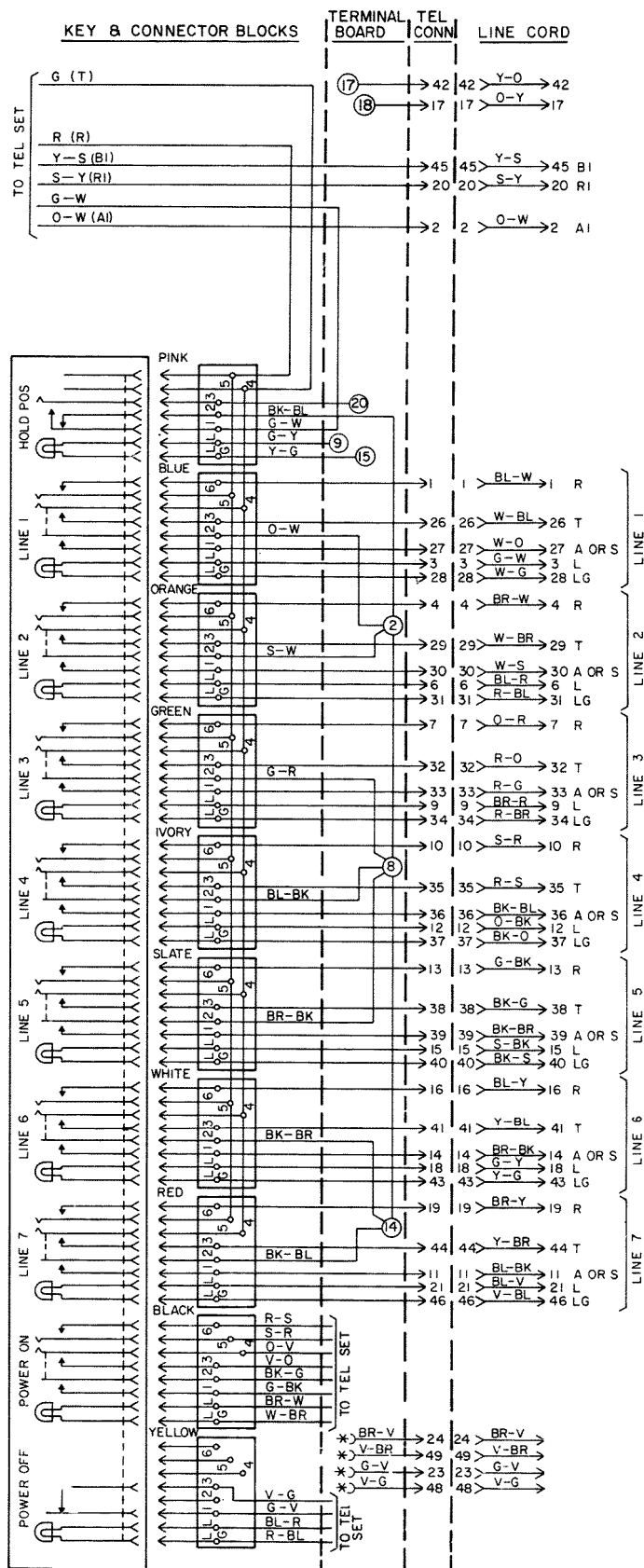
2842-HANDS FREE TELEPHONE



PAGE 2

2842 - HANDS FREE TELEPHONE



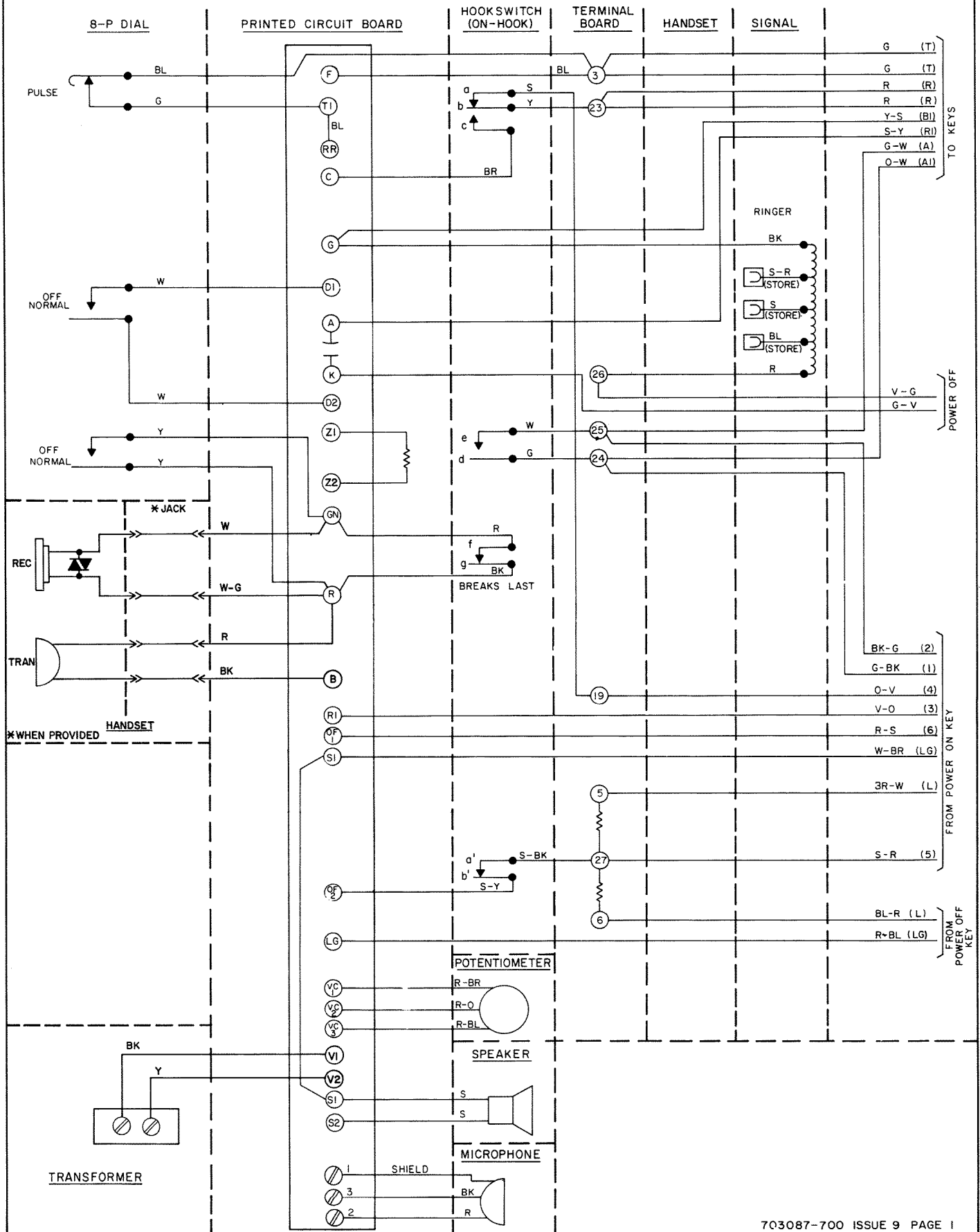


IF Q-20 BUZZER IS USED CONNECT TO TERMINALS 17 & 18.

\* TAPED AND STORED

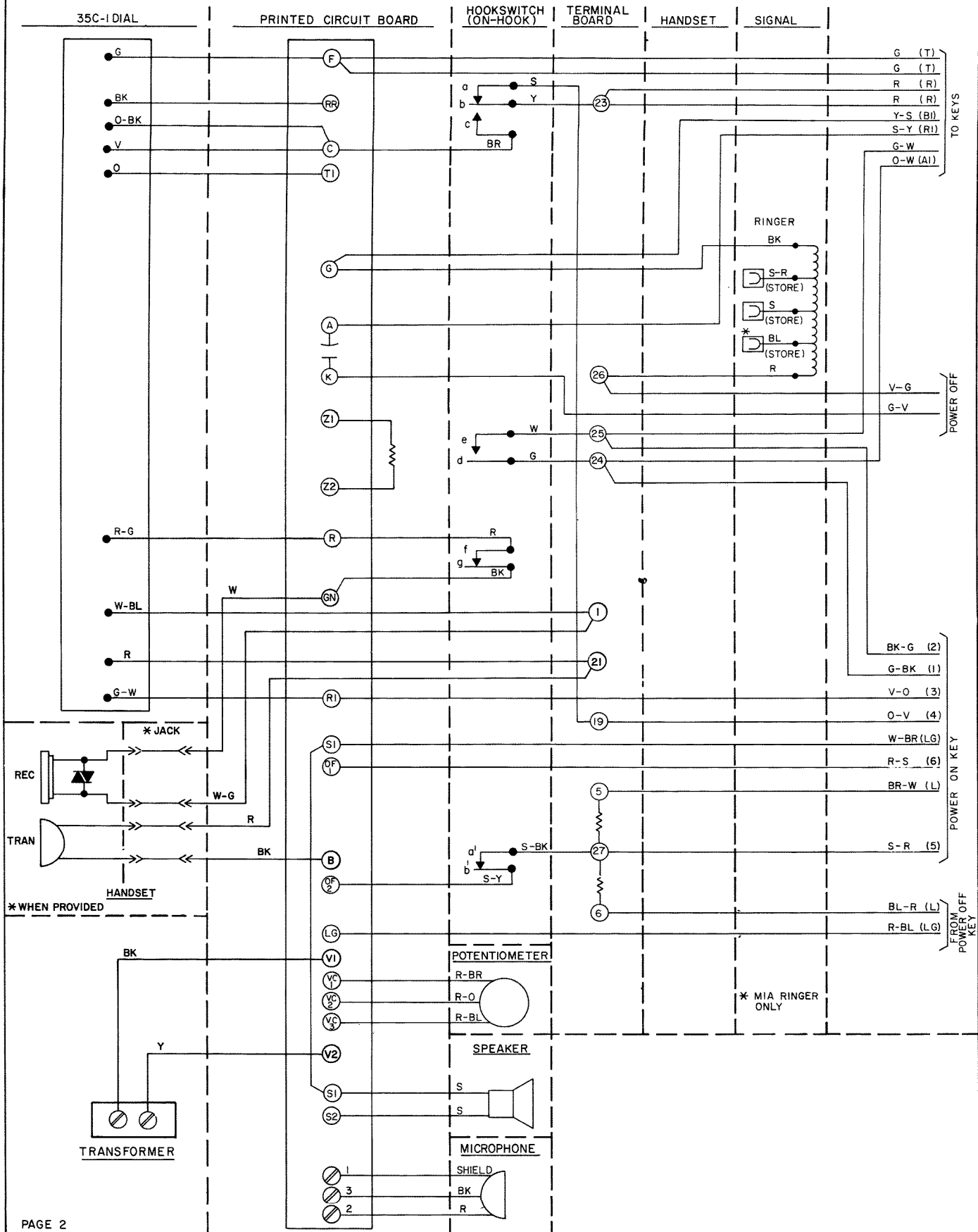
703087-500 ISSUE 8 PAGE 3

# 0843 - HANDS FREE TELEPHONE

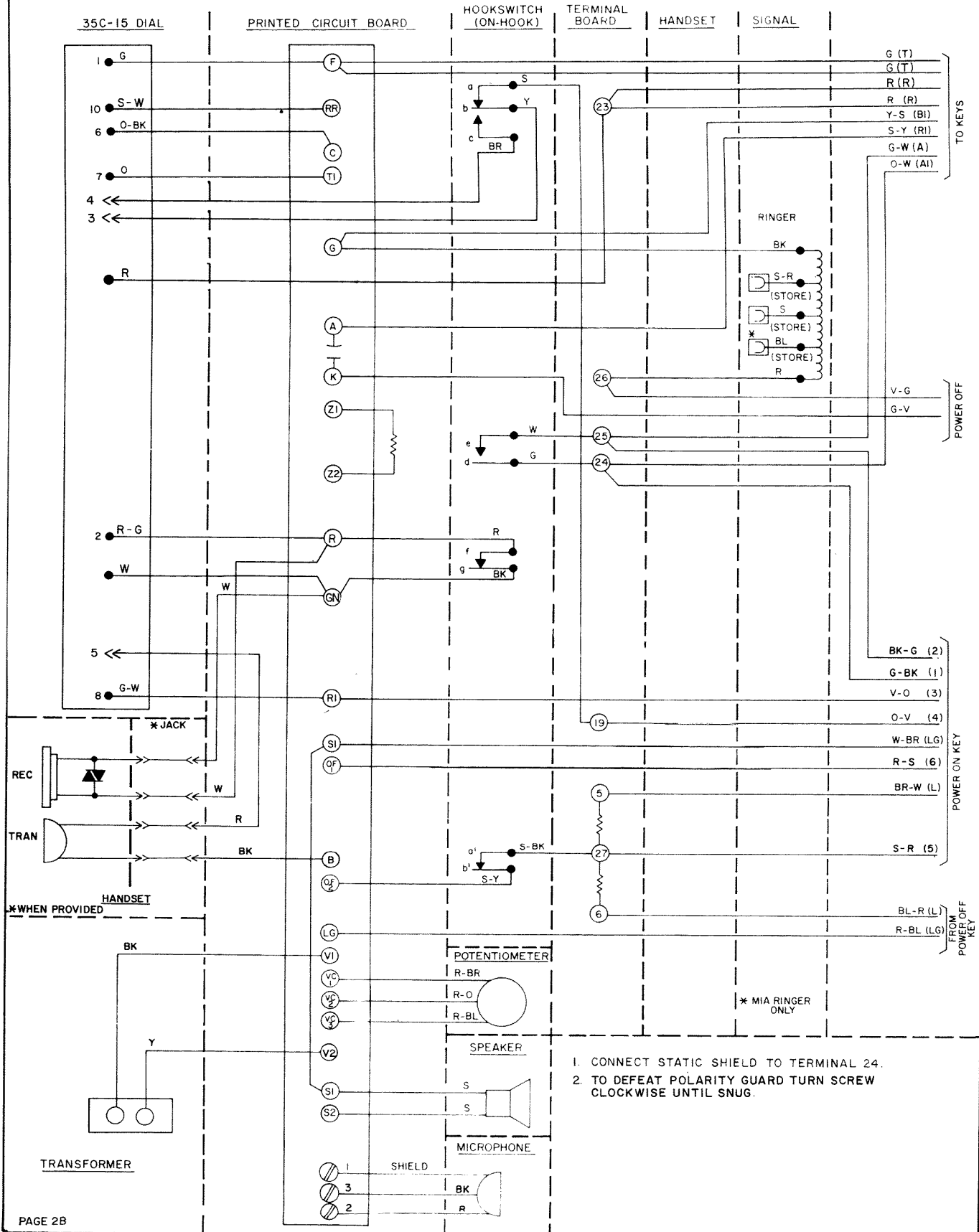


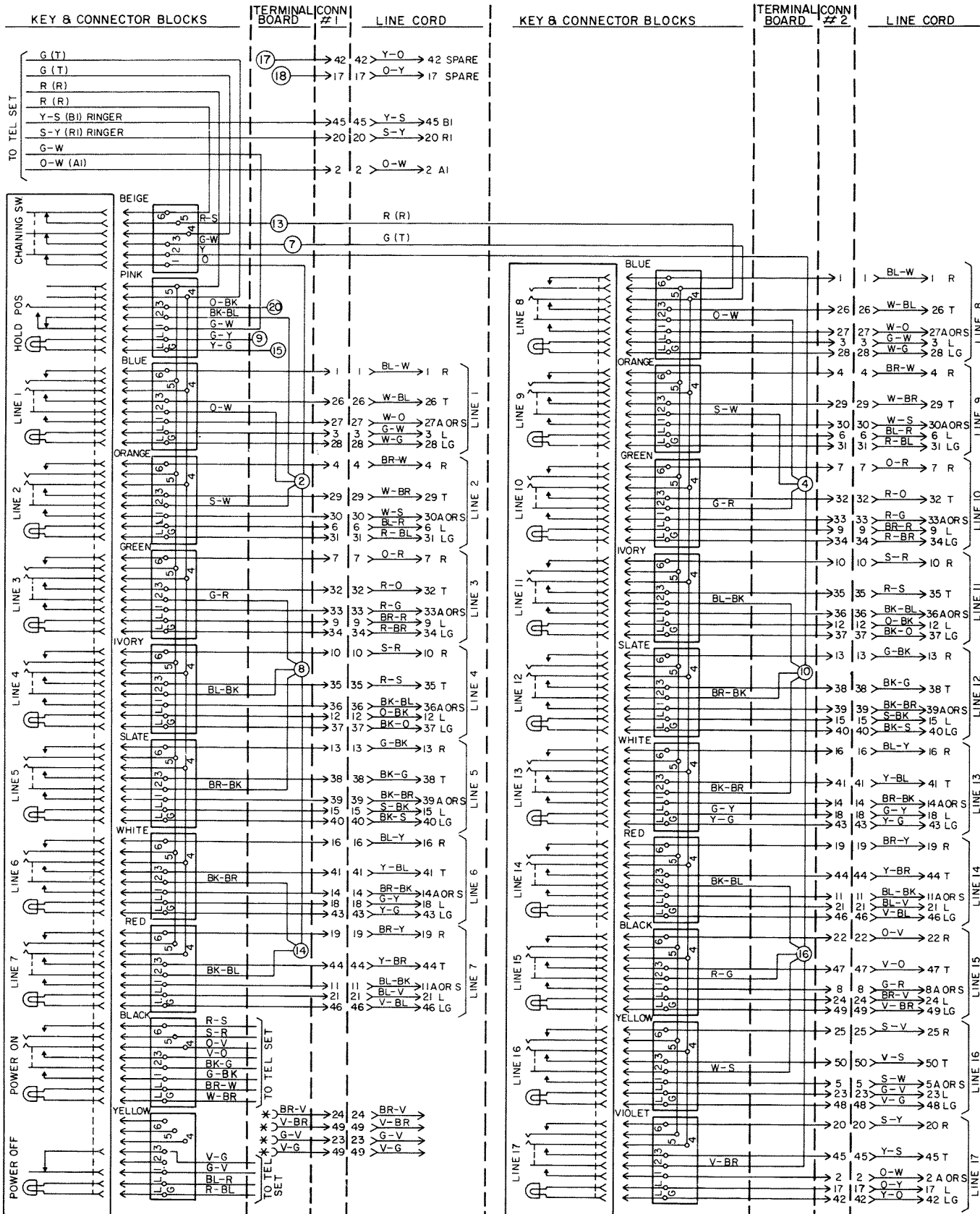
703087-700 ISSUE 9 PAGE 1

2843-HANDS FREE TELEPHONE

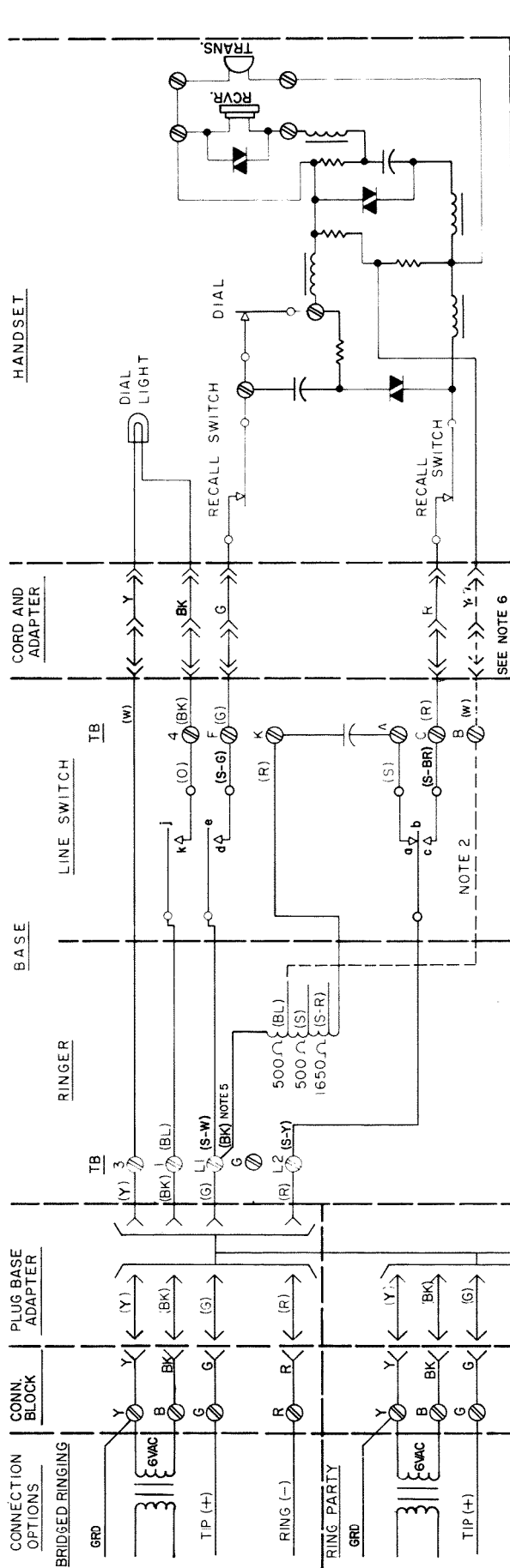


2843-HANDS FREE TELEPHONE





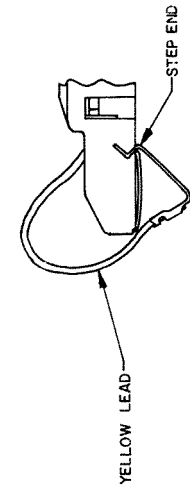
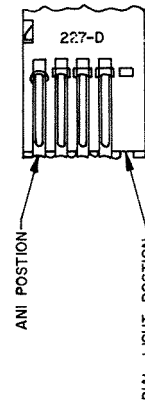
IF Q-20 BUZZER IS USED CONNECT TO TERMINALS 17 & 18.  
 \* TAPED AND STORED



HANDSET

CONNECTIONS FOR 4 PARTY SELECTIVE OR 8 PARTY SEMISELECTIVE RINGING

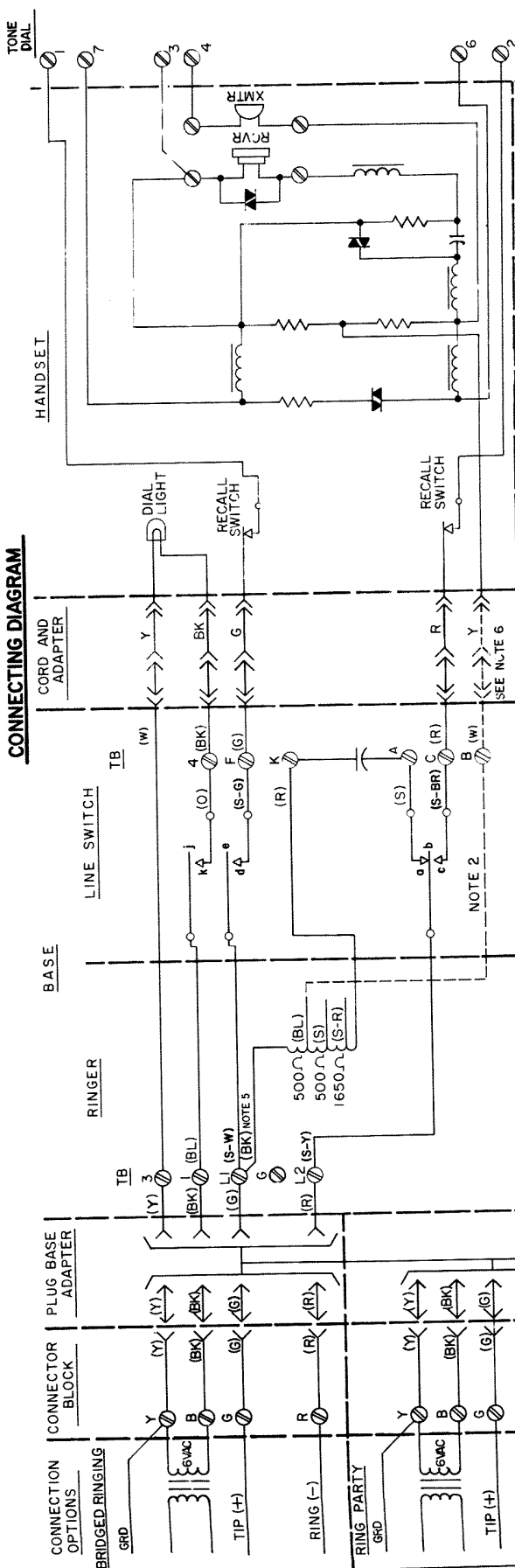
| PARTY      | LEADS | MOUNTING CORD AT TERMINAL BOARD | 703025-288 | DIODE | RINGER | STRAP FROM A | LINE SWITCH      |
|------------|-------|---------------------------------|------------|-------|--------|--------------|------------------|
| RING PARTY | GRD   | YEL                             | W          | 3     | G      | BK           | S                |
|            | TIP   | L1                              | L2         | 3     | G      | 3            | INSULATE & STORE |
|            | RING  | L1                              | L2         | 3     | G      | 3            | INSULATE & STORE |
| TIP PARTY  | GRD   | YEL                             | W          | 3     | G      | BK           | S                |
|            | TIP   | L1                              | L2         | 3     | G      | 3            | INSULATE & STORE |
|            | RING  | L1                              | L2         | 3     | G      | 3            | INSULATE & STORE |



- NOTES:
- GROUND MAY BE OMITTED IF NOT REQUIRED FOR SERVICE.
  - FOR TIP PARTY IDENTIFICATION, 1000Ω OR 2650Ω, CONNECT TO PERMANENTLY SUPPLIED RINGER, REMOVE RINGER LEAD FROM K, INSULATE AND STORE.
  - FOR RING PARTY IDENTIFICATION, 1000Ω OR 2650Ω, CONNECT TO PERMANENTLY SUPPLIED RINGER, REMOVE RINGER LEAD FROM K, INSULATE AND STORE.
  - FOR DIVIDED RINGING, CONNECT RINGER (BK) TO 3.
  - FOR DIVIDED RINGING, CONNECT RINGER (BK) TO 3.
  - IN BASE, MOVE WHITE LEAD OF HANDSET JACK FROM TERMINAL 3 TO TERMINAL B.
  - REMOVE SHELL FROM HANDSET.
  - REMOVE ADAPTER - SEPARATE YELLOW LEAD FROM BASE.
  - PULL UP ON YELLOW LEAD TILL SPRING IS BENT UP APPROXIMATELY 90°.
  - FREE STEP END OF SPRING FROM BASE.
  - REPLACE SPRING IN ANI POSITION.
  - USING A BLUNT INSTRUMENT, REFORM THE CRIMPED END TO FIT THE TROUGH.

# COMDIAL TELEPHONE SYSTEM'S SLENDERET TONE DIAL TELEPHONE (2220 SERIES)

## CONNECTING DIAGRAM

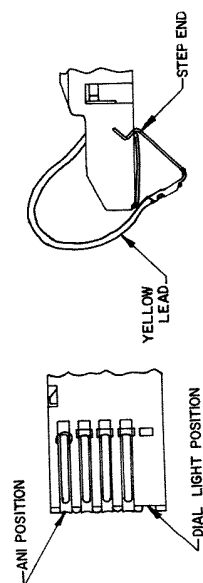


CONNECTIONS FOR 4 PARTY SELECTIVE OR 8 PARTY SEMISELECTIVE RINGING

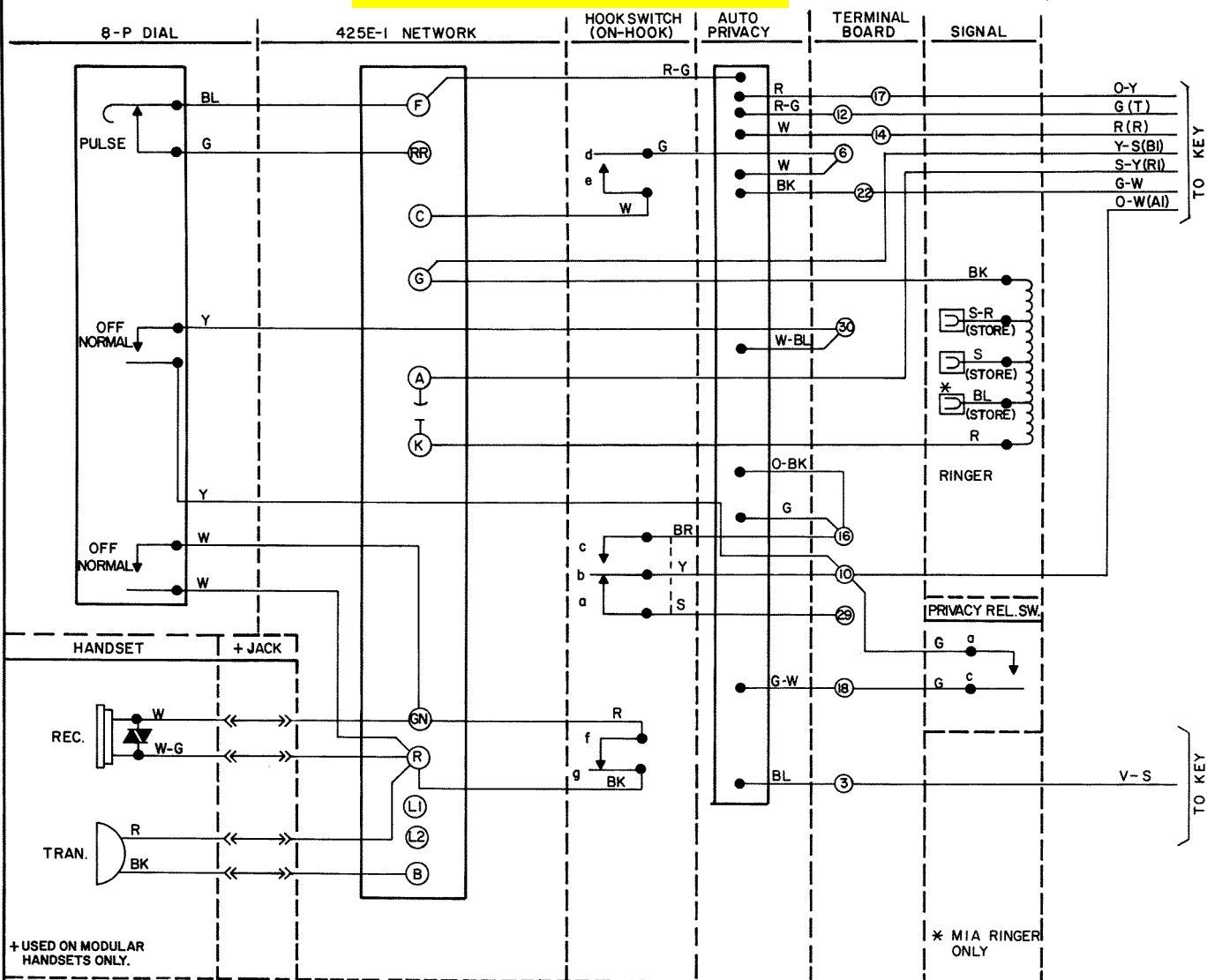
| PARTY | MOUNTING CORD AT TERMINAL BOARD | 703025-288 DIODE | RINGER | STRAP FROM A | LINE SWITCH | HANDSET CORD AT TERMINAL BOARD |
|-------|---------------------------------|------------------|--------|--------------|-------------|--------------------------------|
| LEADS | RING L1 L2                      | TIP L1 L2        | GRD W  | YEL          | BK          | R G                            |
| -RING | L1 L2                           | L1 L2            | 3      | L2           | G           | 3                              |
| -TIP  | L1 L2                           | L1 L2            | 3      | L2           | G           | 3                              |
| +RING | L1 L2                           | L1 L2            | 3      | L2           | G           | 3                              |
| +TIP  | L1 L2                           | L1 L2            | 3      | L2           | G           | 3                              |

### NOTES:

1. GROUND MAY BE OMITTED IF NOT REQUIRED FOR SERVICE
- 2.
3. TO PERMANENTLY SILENCE RINGER, REMOVE RINGER LEAD FROM K, INSULATE AND STORE.
4. MOUNT CAPACITOR SUPPLIED WITH RINGER BETWEEN A AND K TERMINALS. BE SURE THE CAPACITOR DOES NOT INTERFERE WITH RINGER GONG.
5. FOR DIVIDED RINGING, CONNECT RINGER (BK) TO 3.
6. IF PARTY IDENTIFICATION IS REQUIRED (TIP PARTY):
  - A. IN BASE, MOVE WHITE LEAD OF HANDSET JACK FROM TERMINAL 3 TO B.
  - B. CONNECT (BL) RINGER LEAD TO B.
7. REMOVE SHELL FROM HANDSET
  1. REMOVE ADAPTER-SEPARATE YELLOW LEAD FROM BUNDLE.
  2. PULL UP ON YELLOW LEAD TILL SPRING BENT UP APPROXIMATELY 90°.
  3. FREE STEP END OF SPRING FROM PAINE.
  4. REPLACE SPRING IN ANI POSITION.
  5. USING A BLUNT INSTRUMENT, REFORM THE CRIMPED END TO FIT THE TROUGH.



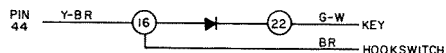
# 6-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY



## 6-BUTTON SERIES TELEPHONE (WITH PRIVACY) INCLUDES 0864 / 2864 76

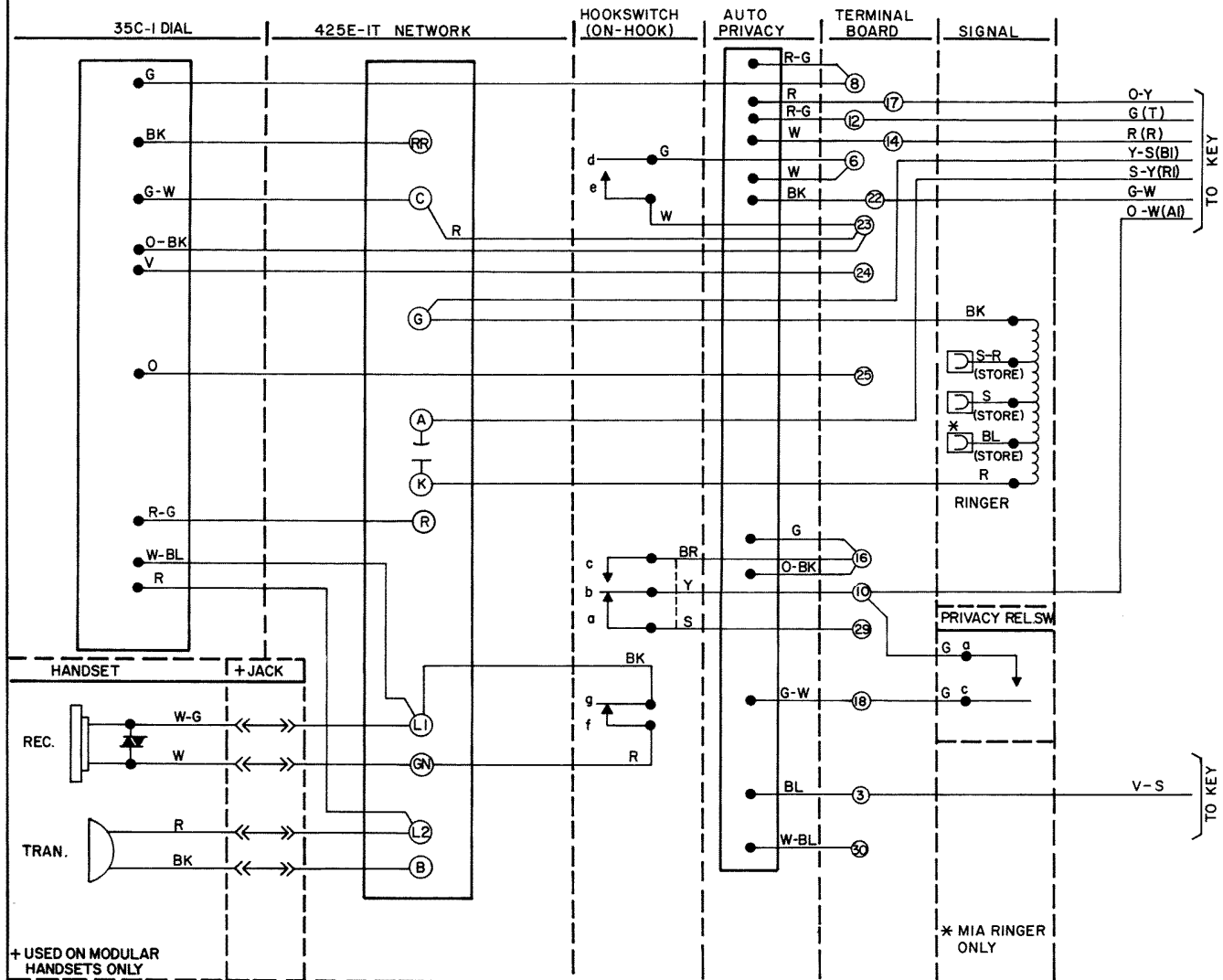
### NOTES:

1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTIONS: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 BUZZERS).
2. OPTIONS
  - (A) AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPADE (Y-O AND O-Y) PAIR AS REQUIRED.
  - (B) WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY.  
 10 V LAMPS (18 VAC POWER AND 24 V LAMPS (24 VDC POWER LAMPS (24 VDC POWER))  
 MOVE BRN HOOKSWITCH LEAD FROM 22 TO 16. CONNECT Y-BR LINE CORD LEAD TO 16 AND ADD DIODE 202852-138 AS SHOWN:

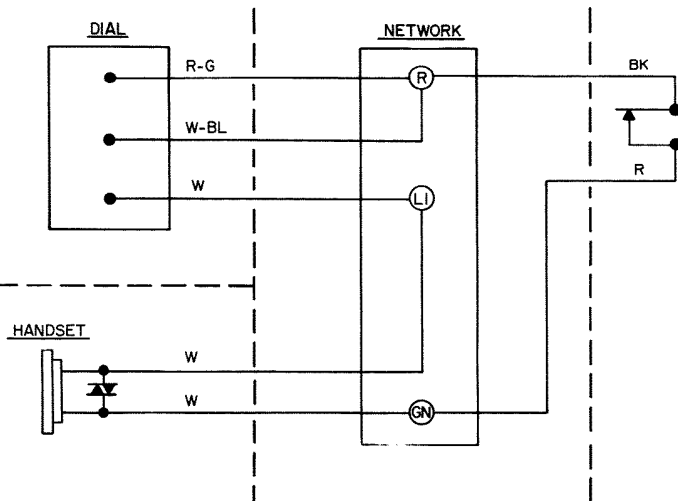


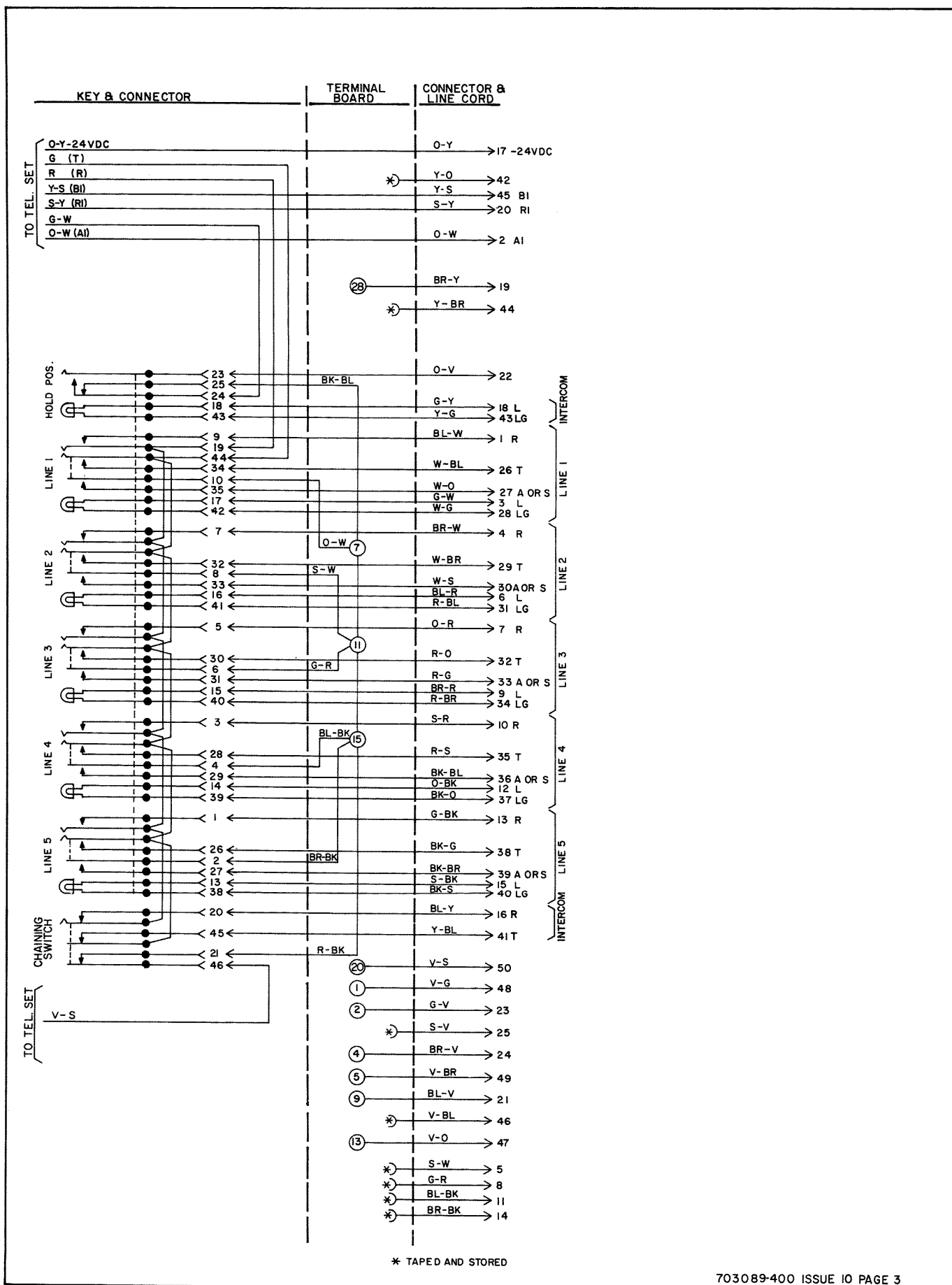
- (C) TO CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION MOVE ASSOCIATED SIGNAL LEAD (O-W, S-W, G-R, BL-BK, OR BR-BK) FROM FACTORY WIRED TERMINALS TO TERMINAL 28.
3. TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
4. THIS TELEPHONE PROVIDES FOR ALL-BUTTONS-RELEASED INTERCOM. TO CONVERT LINE 5 PICKUP KEY TO INTERCOM: ON A SPARE QUICK-CONNECT TERMINAL AT THE KSU, CONNECT TOGETHER THE BLK-BRN AND SLT-VIO LINE CORD LEADS. EIRE T, R, L, LG LEADS AT INTERCOM AS REQUIRED.
5. FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP- 81-067-72.

# 6-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY

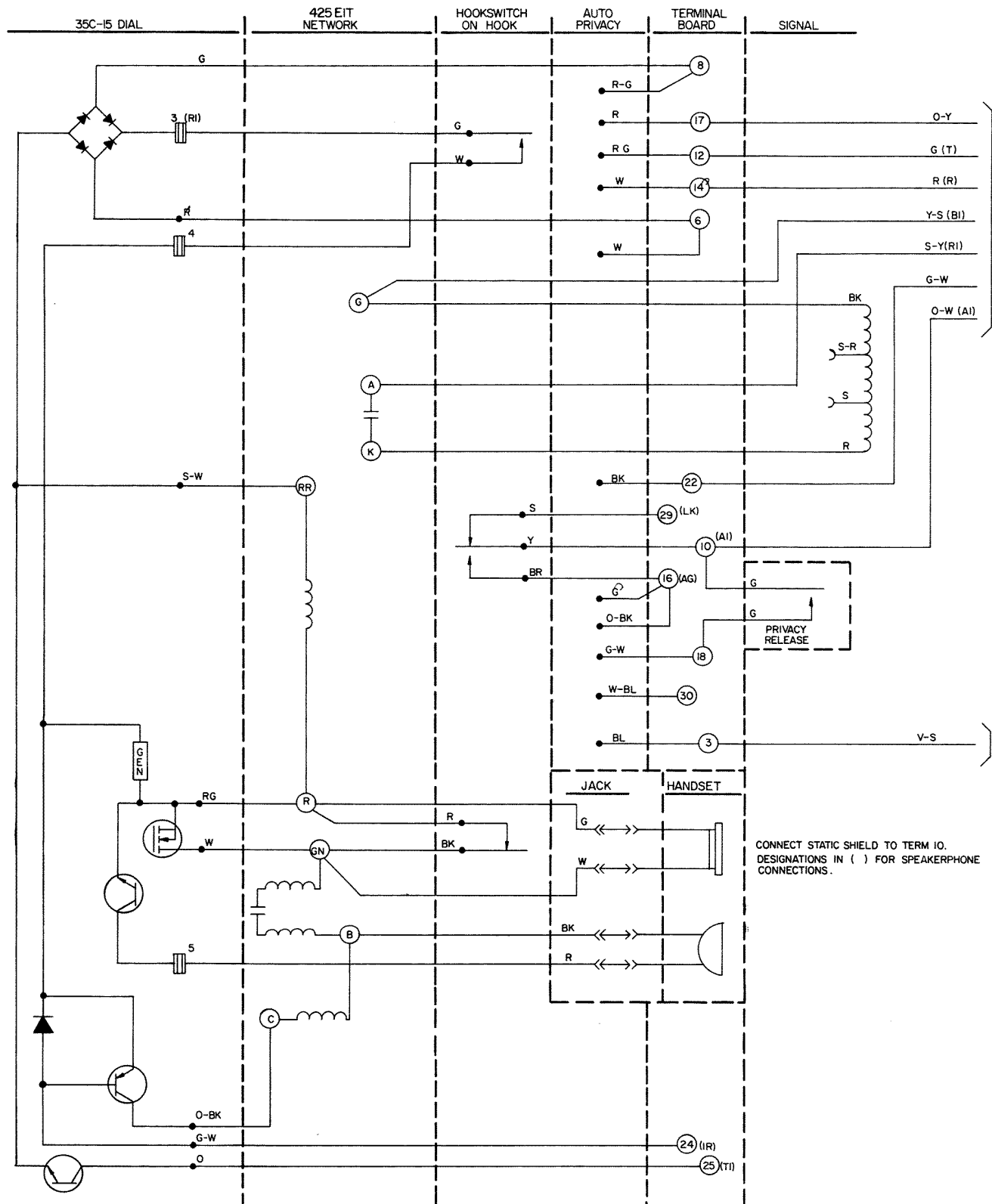


PHONES WITH 35C3AP DIALS - CONNECT AS ABOVE EXCEPT AS SHOWN BELOW

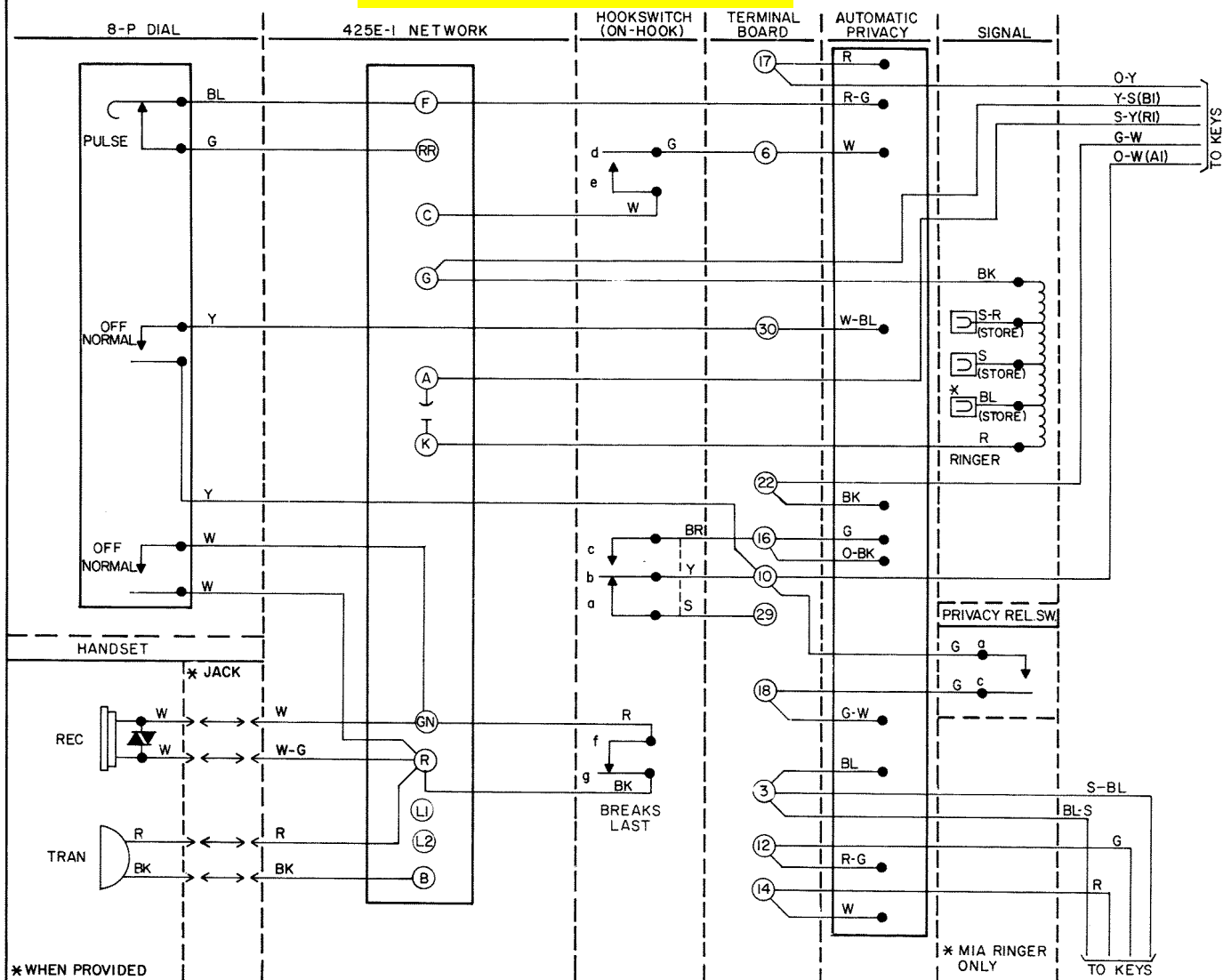




# 6 BUTTON SERIES TELEPHONE W/AUTO PRIVACY



# 10-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY

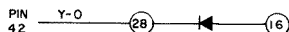


10-BUTTON SERIES TELEPHONE (W/PRIVACY)  
INCLUDES 0830/76 AND 2830/76

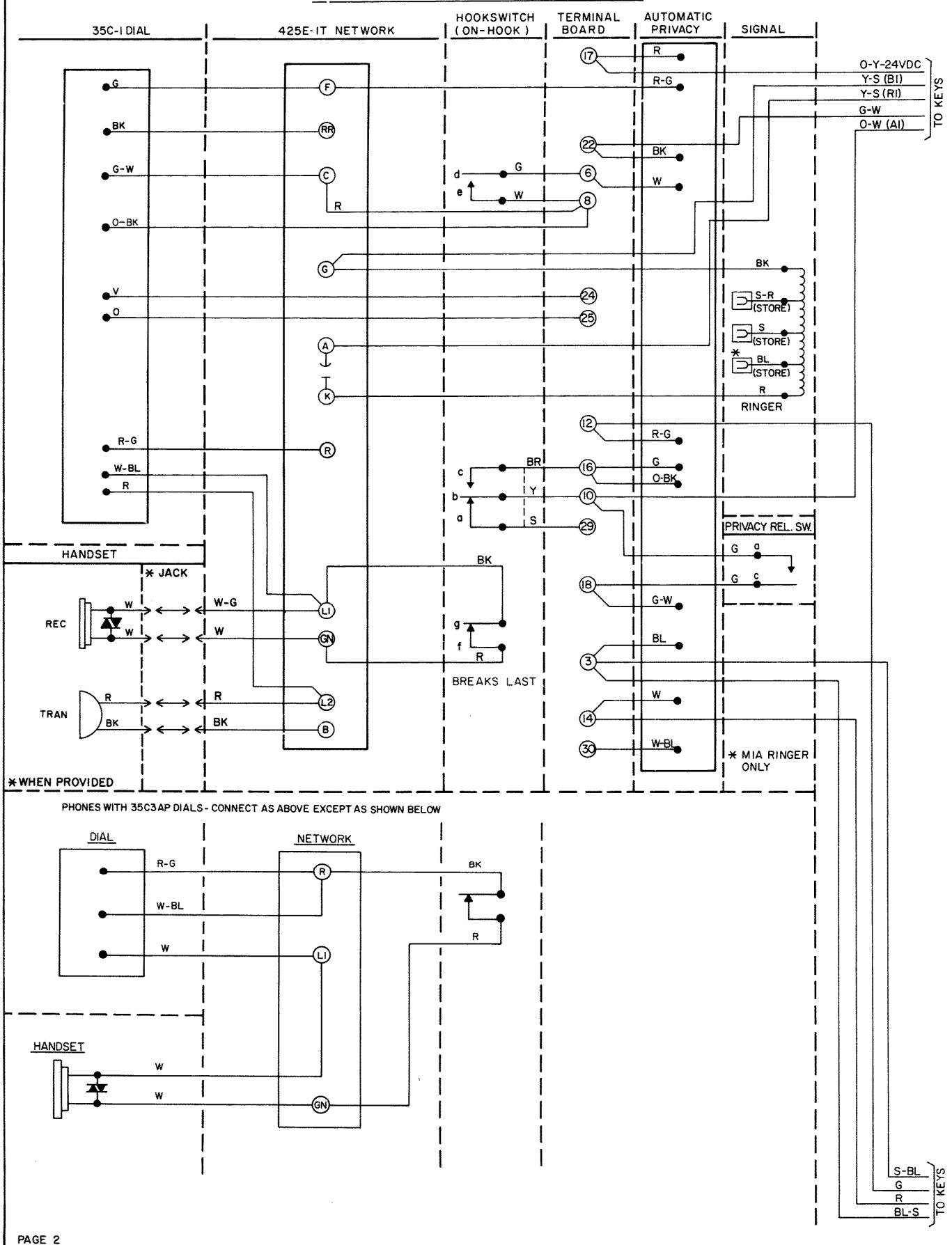
## NOTES:

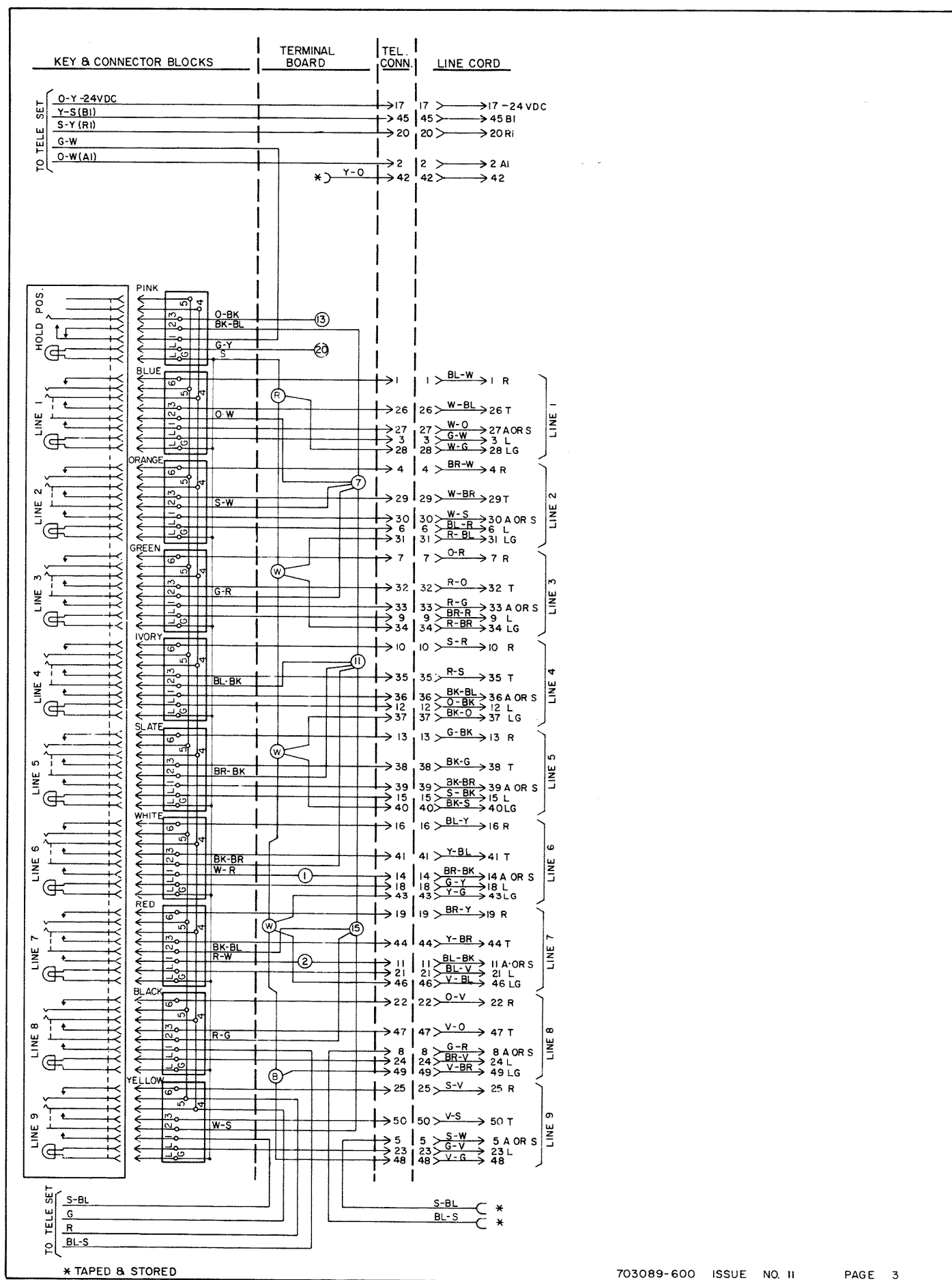
- CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).
- OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS. IF A RINGER IS USED WITH A BUZZER, CONNECT THE BUZZER TO THE SPARE Y-O LEAD AND THE B1 RINGER LEAD.
  - WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY (24 VDC). ADD DIODE 202892-138 AS SHOWN. USE SPARE Y-O LEAD AS "BUSY LAMP" LEAD.
  - TO CONVERT LINE KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON LOCKING. MOVE ASSOCIATED KEY LEAD (O-W, S-W, G-R, BL-BK, BR-BK, BK-BL, R-G, OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 28. CONNECT SPARE Y-O LEAD TO TERMINAL 28.
  - THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONES ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
  - TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.

FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO SCP 81-287-72.

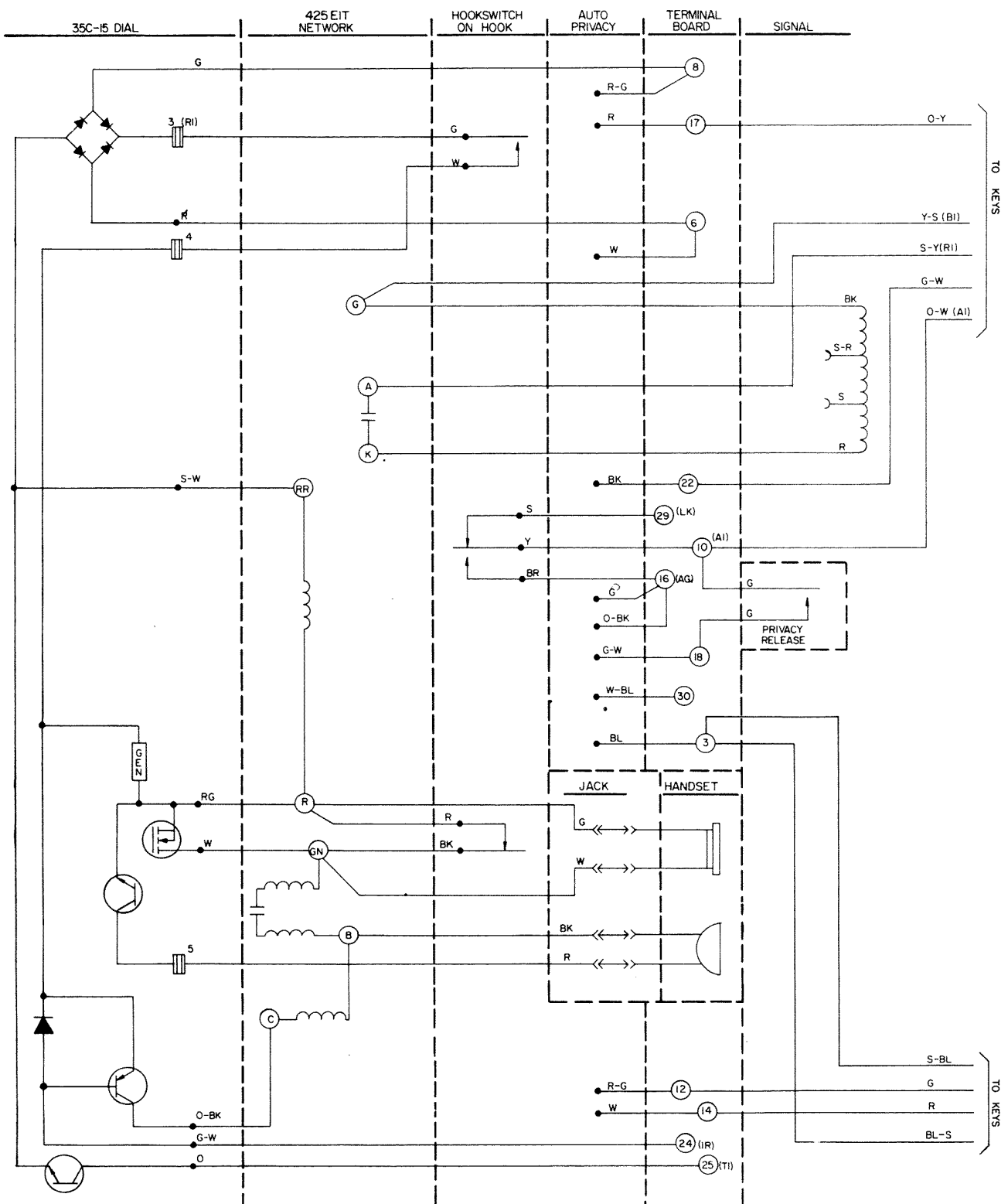


# 10-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY

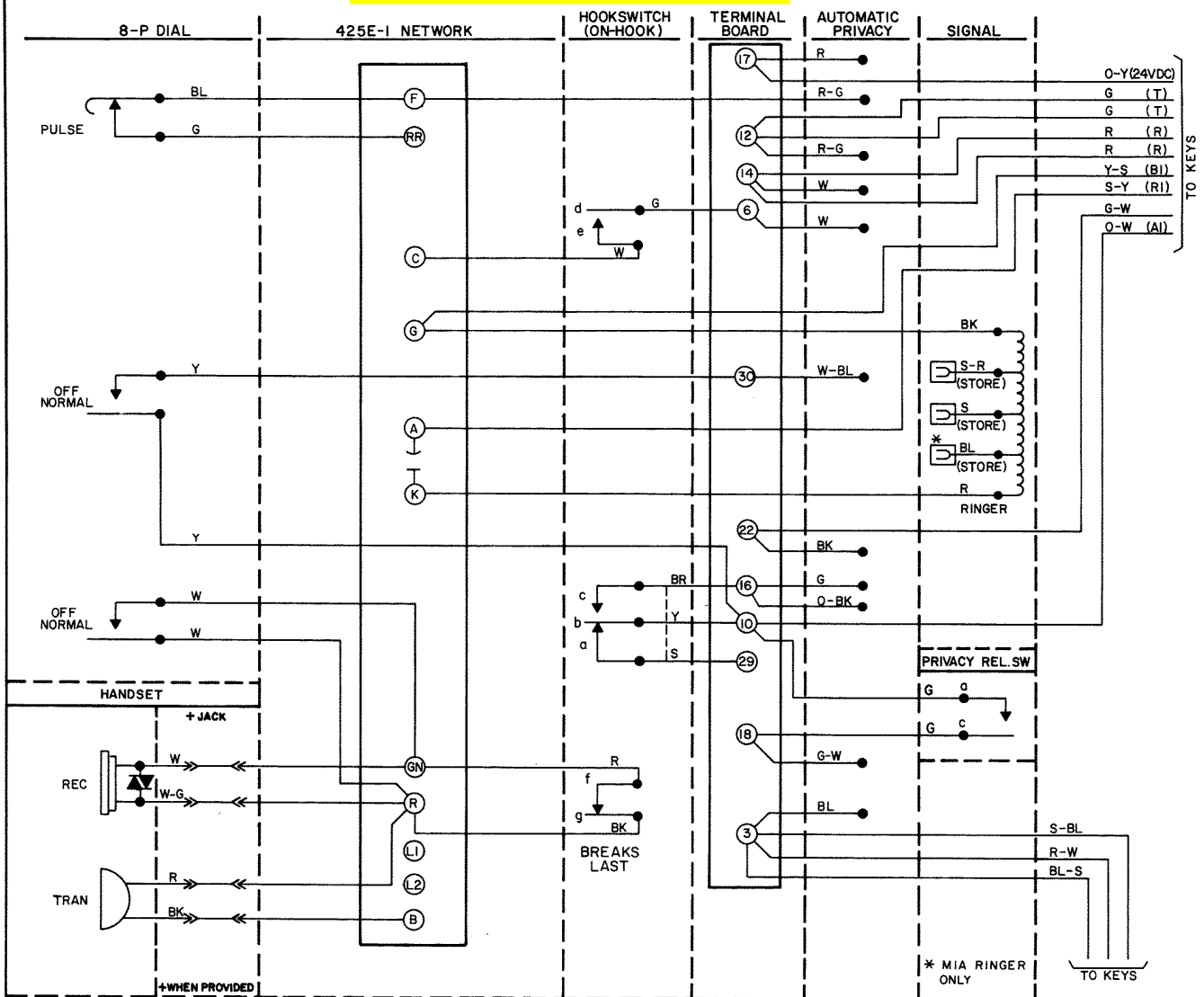




10 BUTTON SERIES TELEPHONE W/AUTO PRIVACY



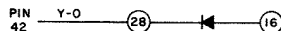
# 20-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY



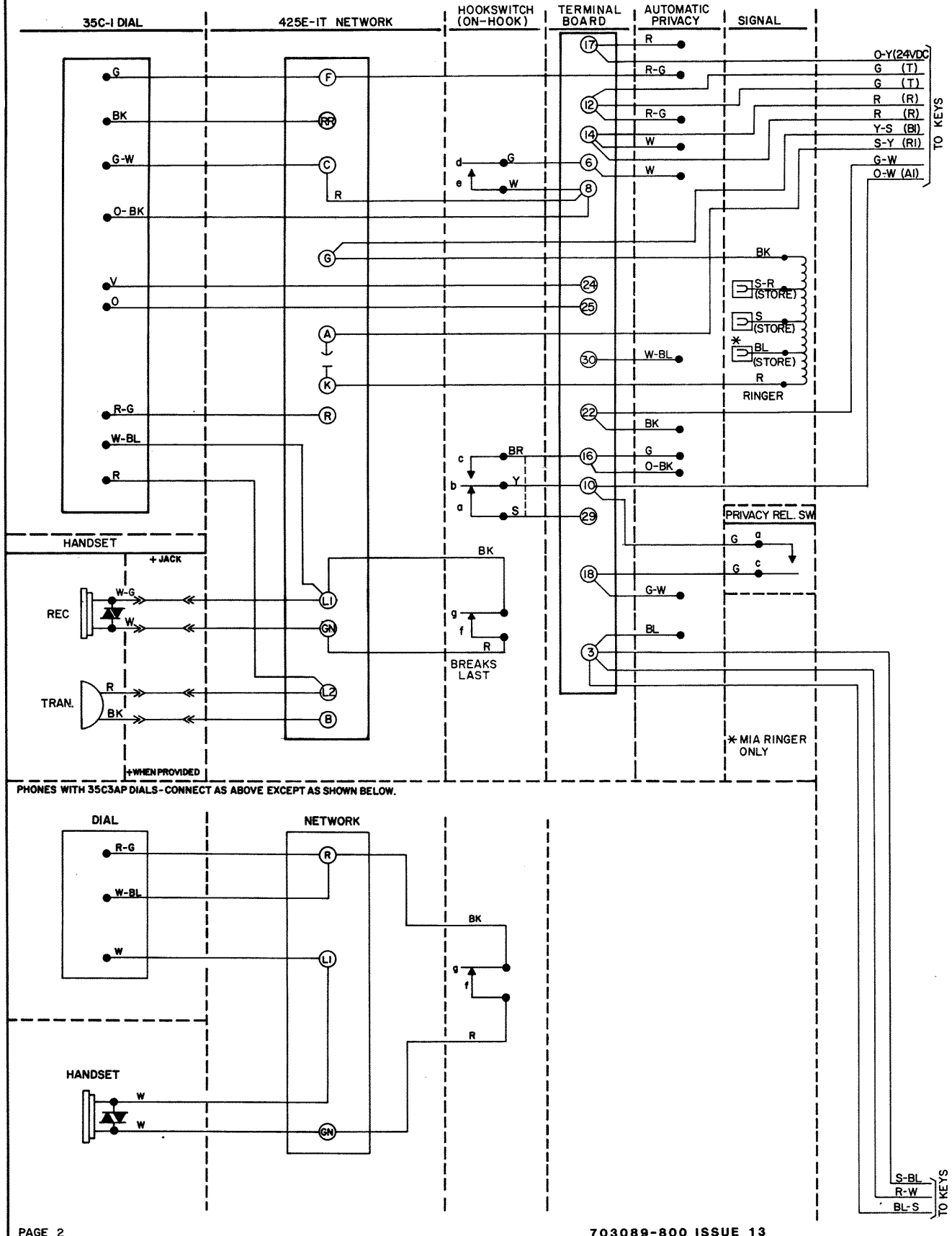
20-BUTTON SERIES TELEPHONE (W/PRIVACY)  
INCLUDES 0831/76 AND 2831/76

## NOTES:

- CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q-20 HV BUZZERS).
- OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.
  - AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS. IF A RINGER IS USED WITH A BUZZER, CONNECT THE BUZZER TO THE SPARE Y-O LEAD AND THE B1 RINGER LEAD.
  - WIRING FOR USE WITH BUSY STATION NUMBER DISPLAY (24 VDC). ADD DIODE 202852-138 AS SHOWN. USE SPARE Y-O LEAD AS 'BUSY LAMP' LEAD.
- TO CONVERT LINE KEYS FROM "PICK UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED KEY LEAD (O-W, S-W, G-R, BL-BK, BR-BK, BK-BL, R-G OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 28. CONNECT SPARE Y-O LEAD TO TERMINAL 28.
- TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.
- FOR ADDITIONAL INSTALLATION AND CONNECTION INFORMATION ON THIS TELEPHONE SET, REFER TO IMI 81-067.

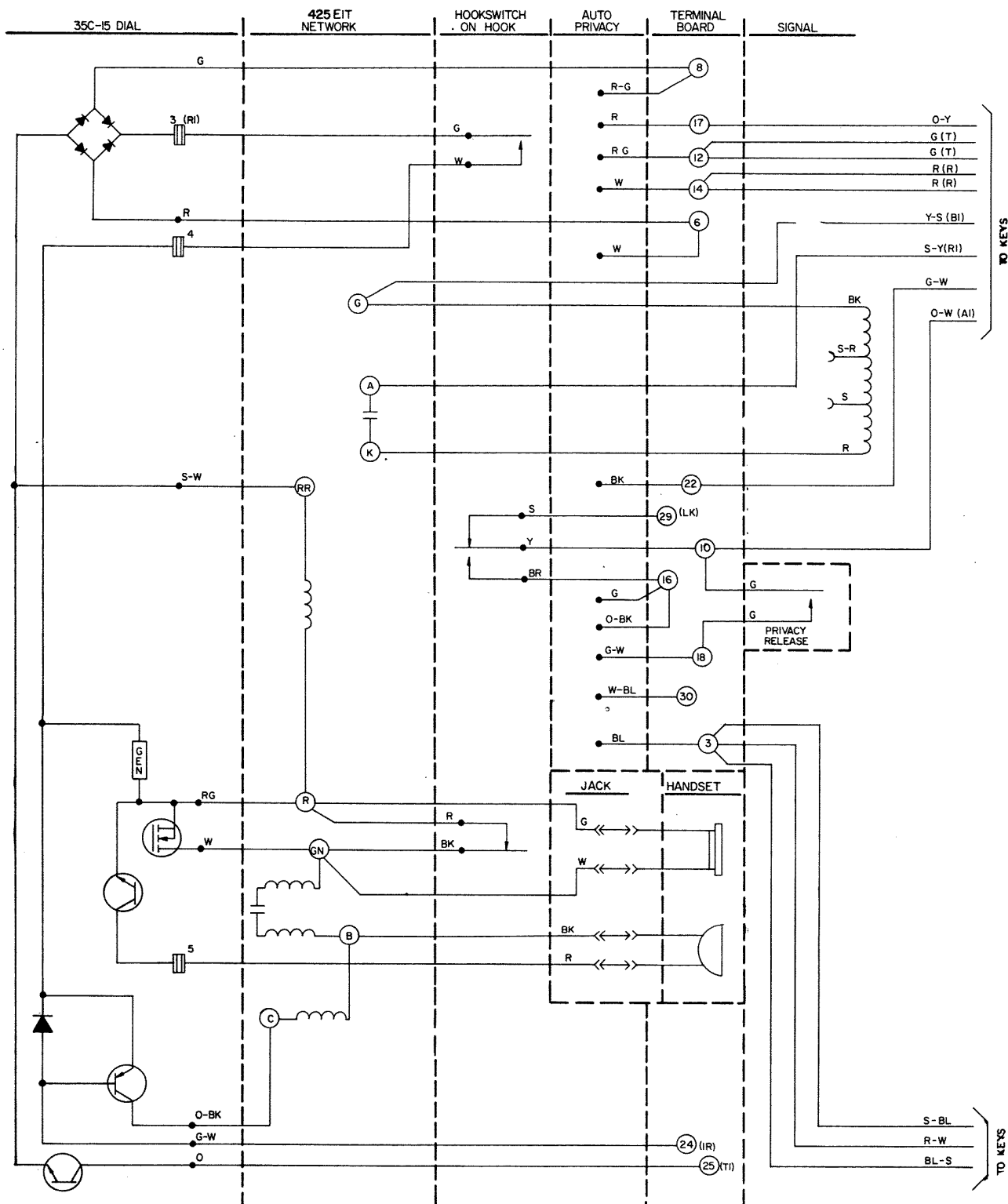


20-BUTTON SERIES TELEPHONE WITH AUTO PRIVACY



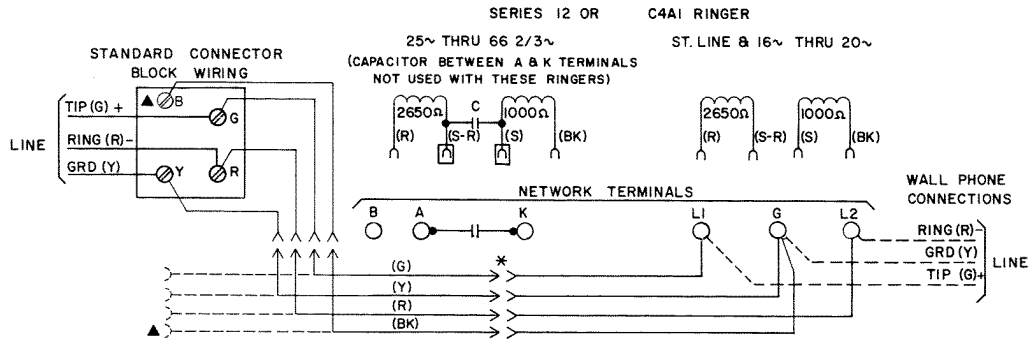
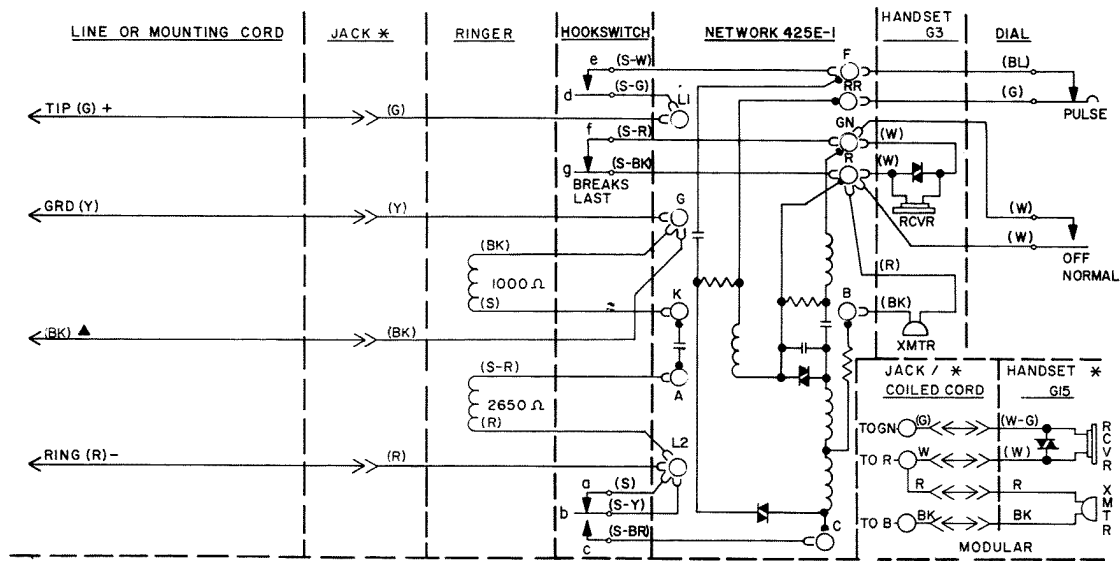


# 20-BUTTON SERIES TELEPHONE W/AUTO PRIVACY



NOTES:  
 1. CONNECT STATIC SHIELD TO TERMINAL 10.  
 2. DESIGNATIONS IN ( ) FOR SPEAKERPHONE CONNECTIONS.  
 3. TO DEFEAT POLARITY GUARD, TURN SCREW CLOCKWISE UNTIL SNUG.

# 500D/554B TELEPHONE WIRING DIAGRAM



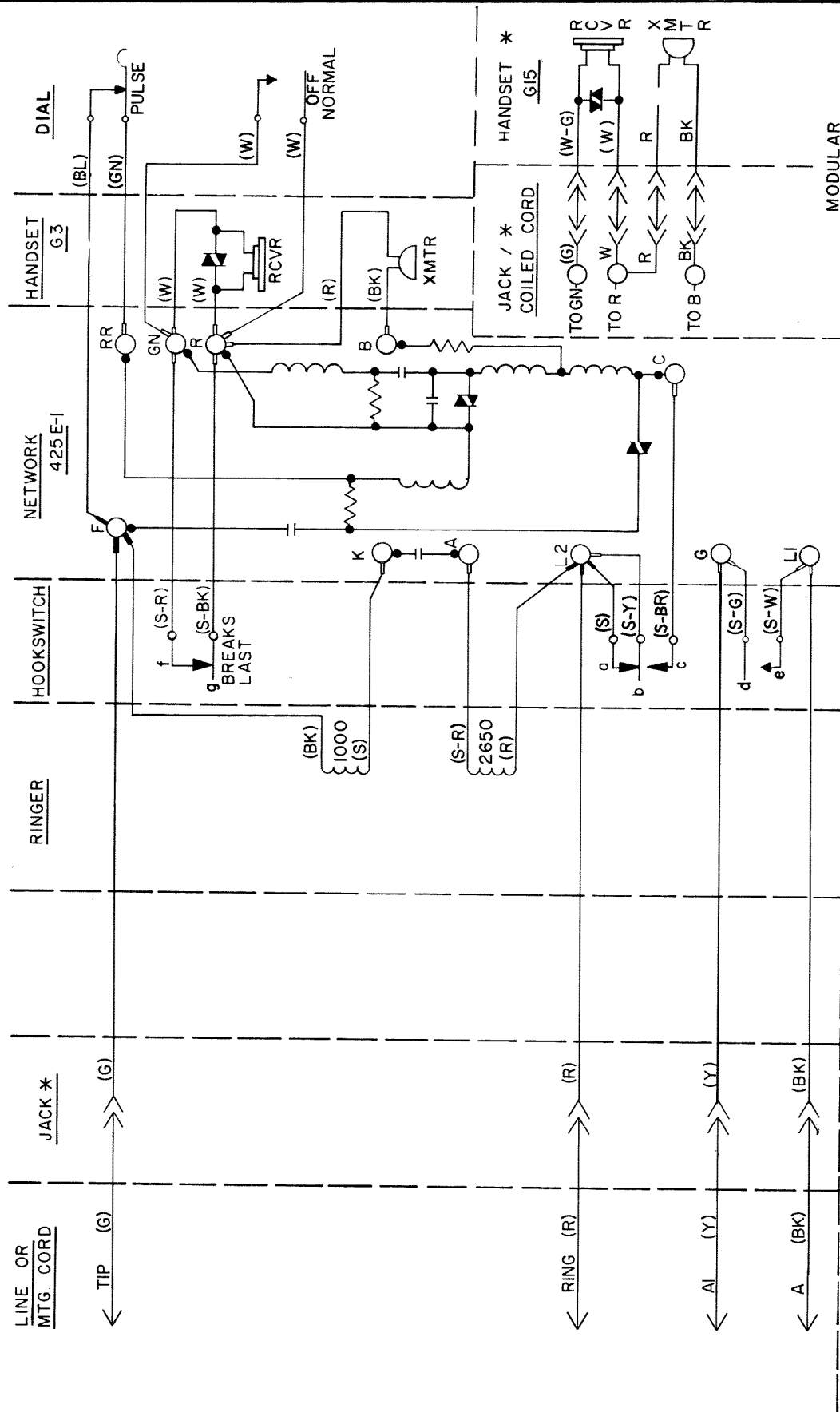
| LINE AND RINGER CONNECTIONS       |                              |       |                       |            |                           |                        |       |
|-----------------------------------|------------------------------|-------|-----------------------|------------|---------------------------|------------------------|-------|
| WIRE OR LEAD                      |                              | COLOR | INDIVIDUAL OR BRIDGED | RING PARTY | TIP PARTY NO IDENT TO GRD | TIP PARTY IDENT TO GRD |       |
| ST LINE, 16 THRU 20~ RINGER LEADS |                              | R     | L2                    | L2         | L2                        | K                      | B     |
|                                   |                              | BK    | L1                    | G          | G                         | G                      | B     |
|                                   |                              | S     | K                     | K          | K                         | B                      | K     |
|                                   |                              | S-R   | A                     | A          | A                         | B                      | G     |
| 25 THRU 66 2/3~ RINGER LEADS      |                              | R     | L2                    | L2         | L2                        | A                      | G     |
|                                   |                              | BK    | L1                    | G          | G                         | G                      | A     |
|                                   |                              | S     | STORE                 | STORE      | STORE                     | B                      | STORE |
|                                   |                              | S-R   | STORE                 | STORE      | STORE                     | STORE                  | B     |
| HOOKSWITCH LEAD                   |                              | S     | L2                    | L2         | L2                        | A                      | A     |
| DESK                              | MTG CORD AT CONNECTING BLOCK | R     | R                     | R          | G                         | G                      | G     |
|                                   |                              | G     | G                     | G          | R                         | R                      | R     |
|                                   |                              | Y     | G                     | Y          | Y                         | Y                      | Y     |
|                                   |                              | BK    | B                     | B          | B                         | B                      | B     |
| WALL                              | LINE WIRE AT NETWORK         | RING- | R                     | L2         | L1                        | L1                     | L1    |
|                                   |                              | TIP+  | G                     | L1         | L2                        | L2                     | L2    |
|                                   |                              | GRD   | Y                     | G          | G                         | G                      | G     |

## NOTES:

- FOR MANUAL SER. ICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTOR AND TRANSFER (S-W) SWITCH LEAD FROM TERMINAL F TO TERMINAL RR ON NETWORK.
- FOR SUPERIMPOSED RINGING WITH 426A OR 425A TUBES OR 703025-298 DIODE ASSEMBLY, SEE DRAWING 206070-400.
- 
- TO PERMANENTLY SILENCE RINGERS:
  - FOR ALL SERVICES EXCEPT 2650<sup>A</sup> TIP PARTY IDENTIFICATION, DISCONNECT (R) RINGER LEAD, INSULATE AND STORE.
  - FOR 2650<sup>A</sup> TIP PARTY IDENTIFICATION ONLY, DISCONNECT (S) RINGER LEAD, INSULATE AND STORE.
- FOR ADDITIONAL INSTRUCTIONS REFER TO IMI 80-001.
- \* - PROVIDED ON MODULAR TELEPHONE
- ▲ - NOT PROVIDED WHEN TELEPHONE IS EQUIPPED WITH 3 CONDUCTOR LINE CORD.

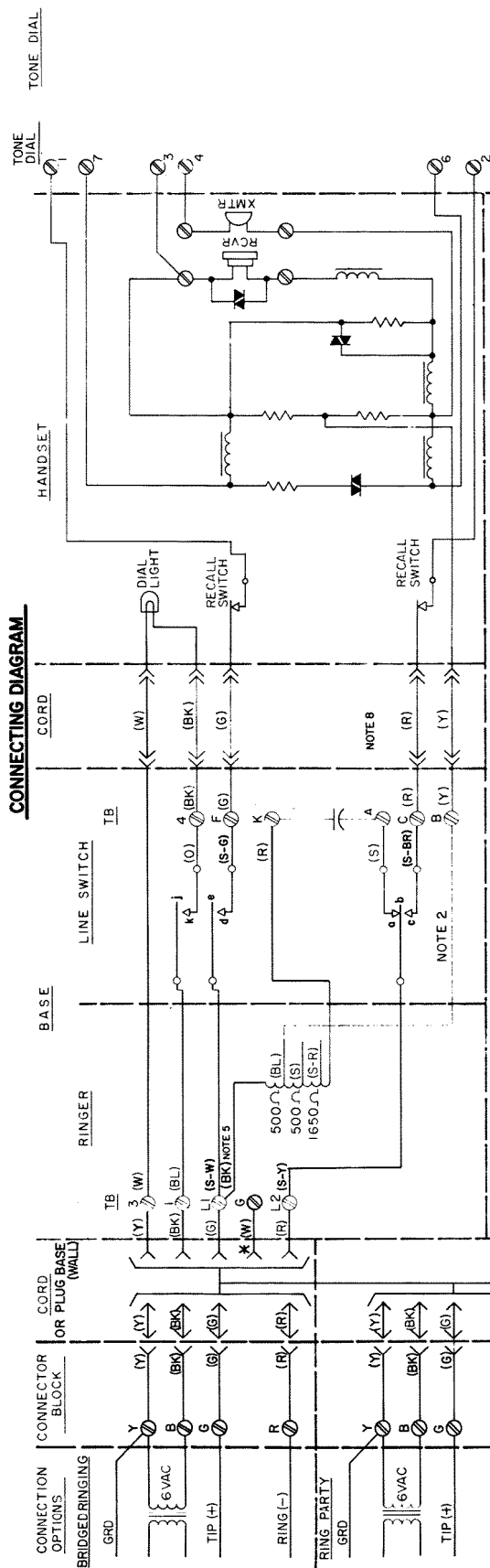
# 500D/554B WITH "A" LEAD CONTROL

## WIRING DIAGRAM



**COMDIAL TELEPHONE SYSTEMS  
SLENDERET TONE DIAL TELEPHONE  
(2220 SERIES)**

**CONNECTING DIAGRAM**



CONNECTIONS FOR 4 PARTY SELECTIVE OR 8 PARTY SEMISELECTIVE RINGING

| PARTY | MOUNTING CORD AT TERMINAL BOARD | 703025-288 DIODE | RINGER | STRAP FROM A | LINE SWITCH | HANDSET CORD AT TERMINAL BOARD |
|-------|---------------------------------|------------------|--------|--------------|-------------|--------------------------------|
| LEADS | RING R                          | TIP G            | GRD W  | YEL          | BK          | S                              |
| -RING | L2                              | L1               | 3      | L2           | G           | K                              |
| -TIP  | L1                              | L2               | 3      | L2           | G           | K                              |
| +RING | L2                              | L1               | 3      | L2           | G           | K                              |
| +TIP  | L1                              | L2               | 3      | L2           | G           | K                              |

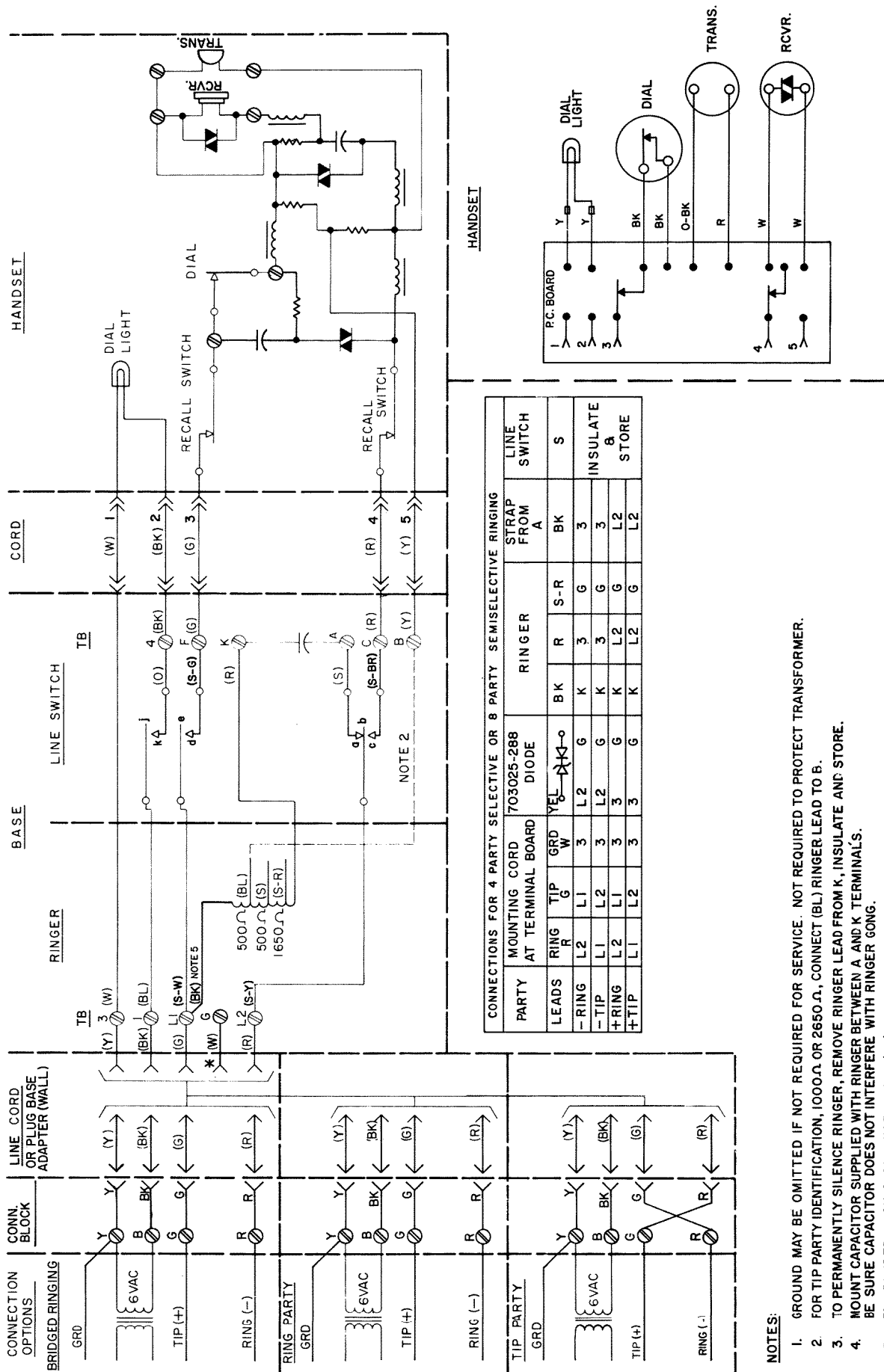
**NOTES:**

1. GROUND MAY BE OMITTED IF NOT REQUIRED FOR SERVICE. NOT REQUIRED TO PROTECT TRANSFORMER.
2. FOR TIP PARTY IDENTIFICATION, 1000Ω OR 2650Ω, CONNECT (BL) RINGER LEAD TO B
3. TO PERMANENTLY SILENCE RINGER, REMOVE RINGER LEAD FROM K, INSULATE AND STORE.
4. MOUNT CAPACITOR SUPPLIED WITH RINGER BETWEEN A AND K TERMINALS. BE SURE THE CAPACITOR DOES NOT INTERFERE WITH RINGER GONG.
5. FOR DIVIDED RINGING, CONNECT RINGER (BK) TO 3.
6. FOR DIAL LAMP, USE TRANSFORMER 897537-000.
7. \* WHEN PROVIDED.
8. FOR TIP PARTY, REVERSE HANDSET (R) AND (G) ON C AND F OF BASE TERMINAL BOARD.

# COMDIAL TELEPHONE SYSTEMS

## 220A-AD2 & 220A-AC2 TELEPHONE

### CONNECTING DIAGRAM

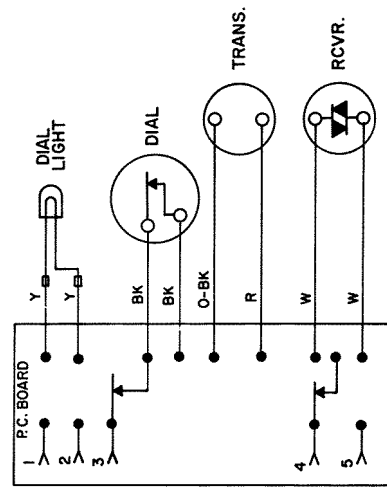


| CONNECTIONS FOR 4 PARTY SELECTIVE OR 8 PARTY SEMISELECTIVE RINGING |                                    |          |          |                     |        |   |                    |                |
|--------------------------------------------------------------------|------------------------------------|----------|----------|---------------------|--------|---|--------------------|----------------|
| PARTY                                                              | MOUNTING CORD<br>AT TERMINAL BOARD |          |          | 703025-288<br>DIODE | RINGER |   | STRAP<br>FROM<br>A | LINE<br>SWITCH |
| LEADS                                                              | RING<br>R                          | TIP<br>T | GRD<br>W | REL<br>Y            | BK     | R | S-R                | BK             |
| -RING                                                              | L2                                 | L1       | 3        | L2                  | G      | 3 | G                  | 3              |
| -TIP                                                               | L1                                 | L2       | 3        | L2                  | G      | 3 | G                  | 3              |
| +RING                                                              | L2                                 | L1       | 3        | 3                   | G      | K | L2                 | G              |
| +TIP                                                               | L1                                 | L2       | 3        | 3                   | G      | K | L2                 | G              |
|                                                                    |                                    |          |          |                     |        |   |                    |                |
|                                                                    |                                    |          |          |                     |        |   |                    |                |
|                                                                    |                                    |          |          |                     |        |   |                    |                |
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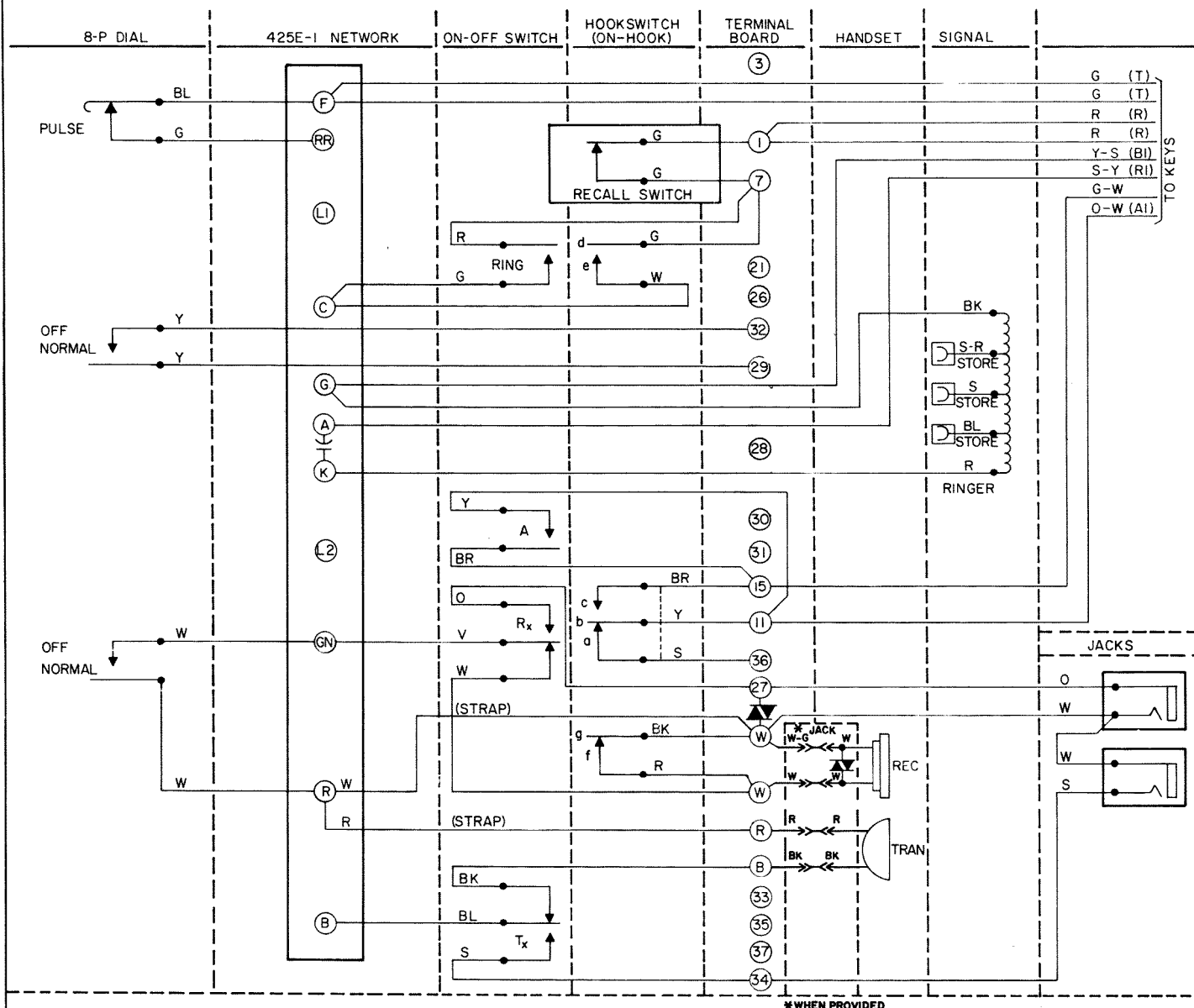
#### NOTES:

1. GROUND MAY BE OMITTED IF NOT REQUIRED FOR SERVICE. NOT REQUIRED TO PROTECT TRANSFORMER.
2. FOR TIP PARTY IDENTIFICATION, 1000Ω OR 2650Ω. CONNECT (BL) RINGER LEAD TO B.
3. FOR PERMANENTLY SILENCE RINGER, REMOVE RINGER LEAD FROM K, INSULATE AND STORE.
4. MOUNT CAPACITOR SUPPLIED WITH RINGER BETWEEN A AND K TERMINALS. BE SURE CAPACITOR DOES NOT INTERFERE WITH RINGER GONG.
5. FOR DIVIDED RINGING, CONNECT RINGER (BK) TO 3.
6. FOR DIAL LAMP, USE TRANSFORMER 897537-000. \* WHEN PROVIDED.

#### HANDSET



# 20 BUTTON SERIES TELEPHONE WITH BLF



## 20 BUTTON SERIES W/BLF 0862/2862

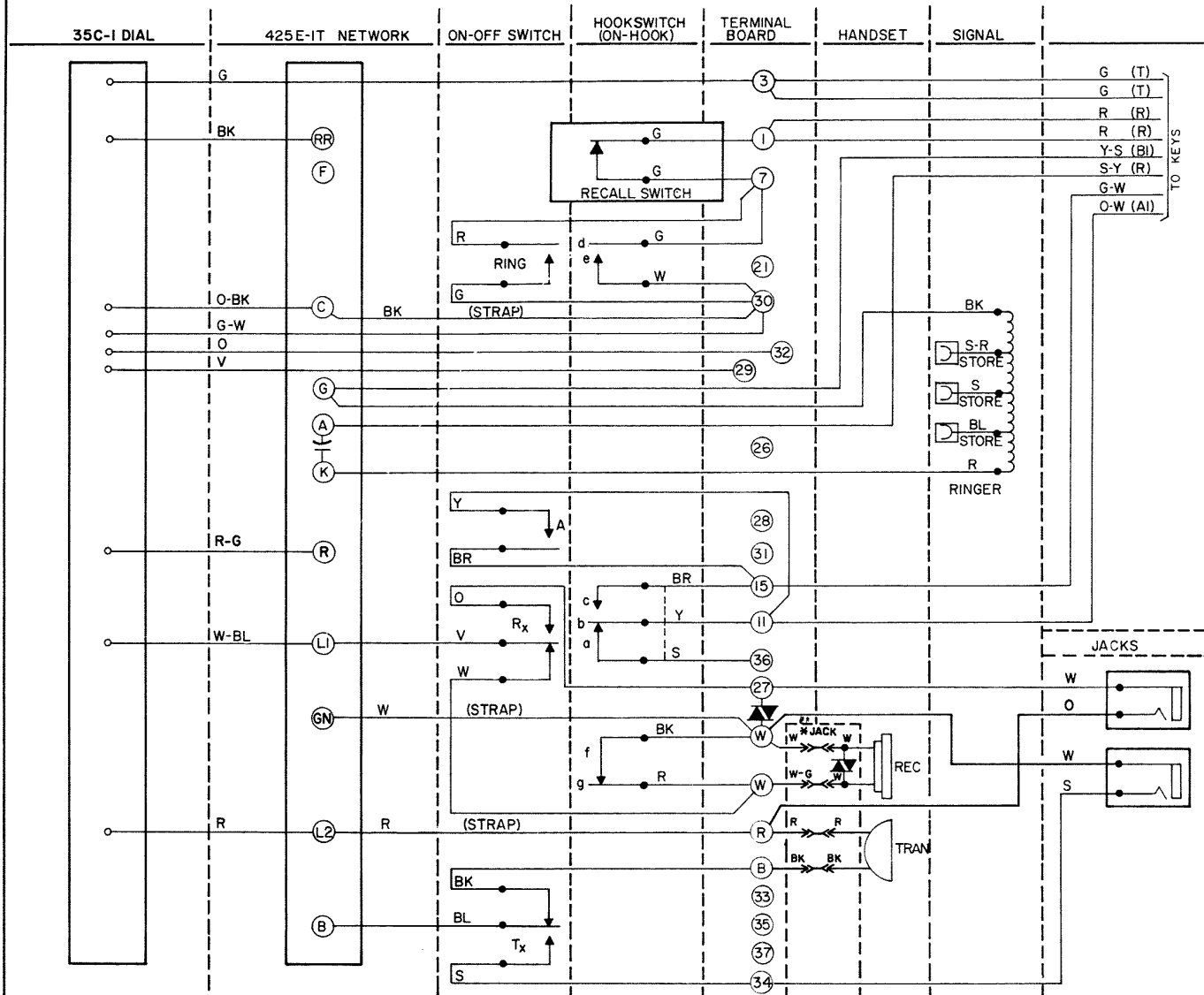
### NOTES:

1. CONNECT AUDIBLE SIGNAL (USING STANDARD RINGING VOLTAGE) AS SHOWN IN WIRING DIAGRAM. EXCEPTION: WHEN CAPACITOR IS NOT REQUIRED, WIRE ONE SIDE OF AUDIBLE SIGNAL TO TERMINAL "A" INSTEAD OF TERMINAL "K". (EXAMPLES: FREQUENCY RINGERS, TONE RINGERS, Q 20 HV BUZZERS).
2. OPTIONS: DUE TO A LIMITED NUMBER OF LINE CORD LEADS, ALL OPTIONAL FEATURES CANNOT BE USED ON ANY ONE SET.

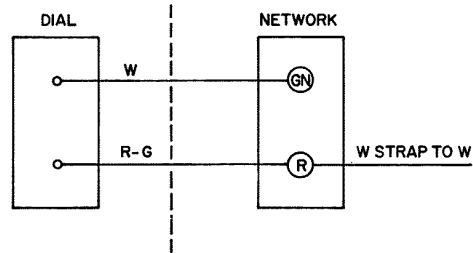
(A). AN 8-24 VAC BUZZER (Q-20, 703015-729) CAN BE MOUNTED INTERNALLY AND CONNECTED TO RINGER LEADS OR TO SPARE (Y-O AND O-Y) PAIR AS REQUIRED.

- (B) TO CONVERT LINE KEYS FROM "PICK-UP" TO "SIGNAL" FUNCTION, REMOVE SCREW FROM PLUNGER TO MAKE IT NON-LOCKING. MOVE ASSOCIATED SIGNAL LEAD (O-W, S-W, G-R, BL-BK, BK-BR, BR-BK, BK-BL, R-G, OR W-S) FROM FACTORY WIRED TERMINALS TO TERMINAL 27. CONNECT O-Y LINE CORD LEAD TO TERMINAL 27.
- (C) THE USE OF FEATURES SUCH AS EXTERNAL SPEAKERPHONE, ETC., WILL REQUIRE AN EXTERNAL ADAPTER CABLE OR SACRIFICING LINE KEYS FOR SPARE LEADS.
3. TO DISABLE BUTTON RESTORATION, TURN SCREW IN HOOKSWITCH LINKAGE APPROXIMATELY FIVE (5) TURNS IN A COUNTER-CLOCKWISE DIRECTION. READJUST SPRING TENSION ON HOOKSWITCH (IF REQUIRED) SO THAT CRADLE IS FULLY DEPRESSED BY WEIGHT OF HANDSET AND RETURNS TO FULL UP POSITION WHEN HANDSET IS REMOVED.

20 BUTTON SERIES TELEPHONE WITH BLF



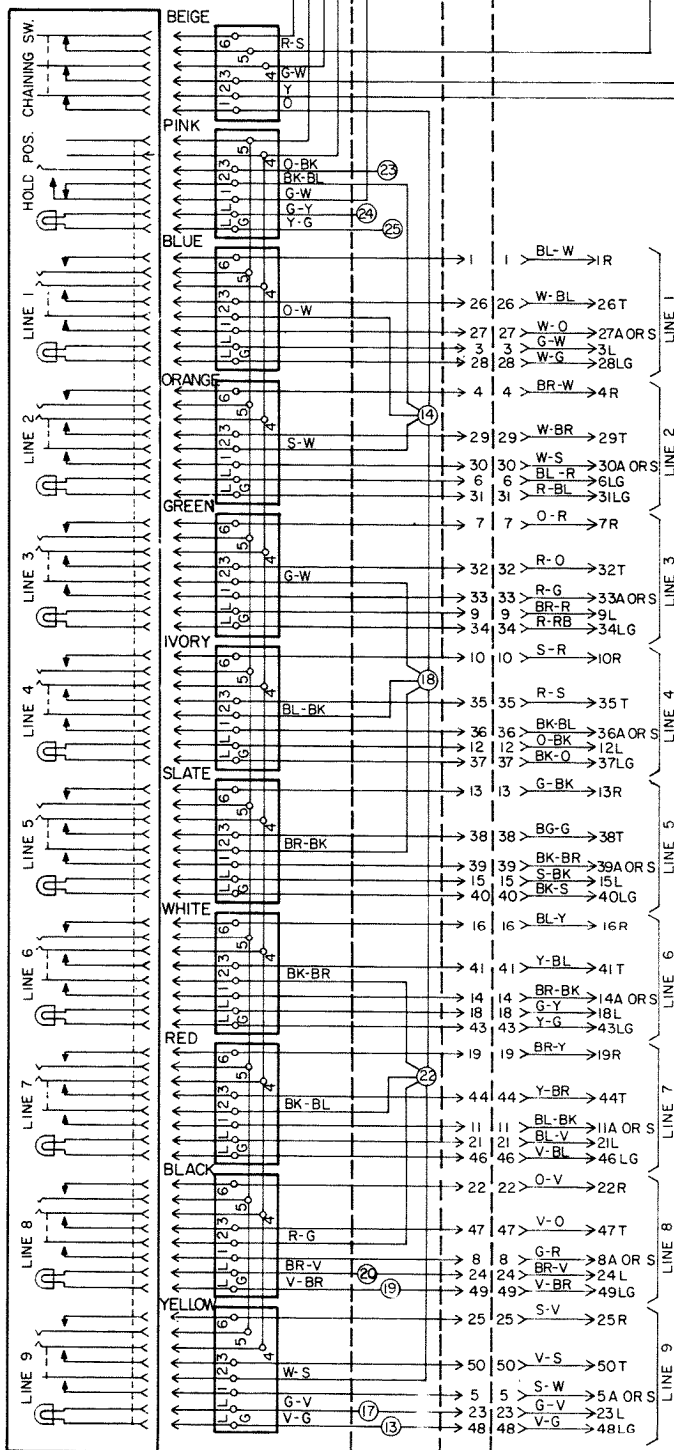
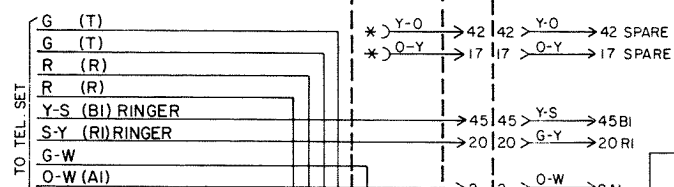
PHONES WITH 35C3AP DIALS: CONNECT AS ABOVE EXCEPT AS SHOWN BELOW.



## KEY NO.1 &amp; CONNECTOR BLOCKS

## TERMINAL BOARD #1

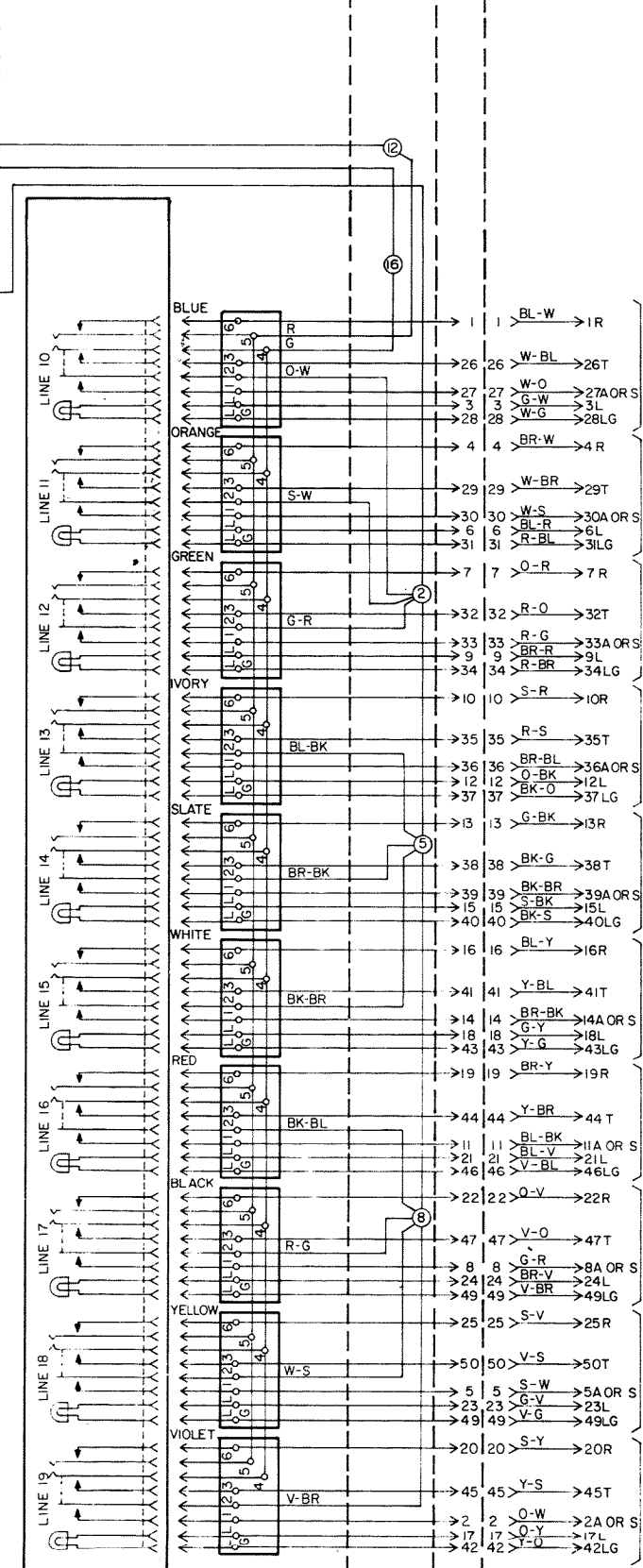
## LINE CORD



## KEY NO.2 &amp; CONNECTOR BLOCKS

## TERMINAL BOARD #2

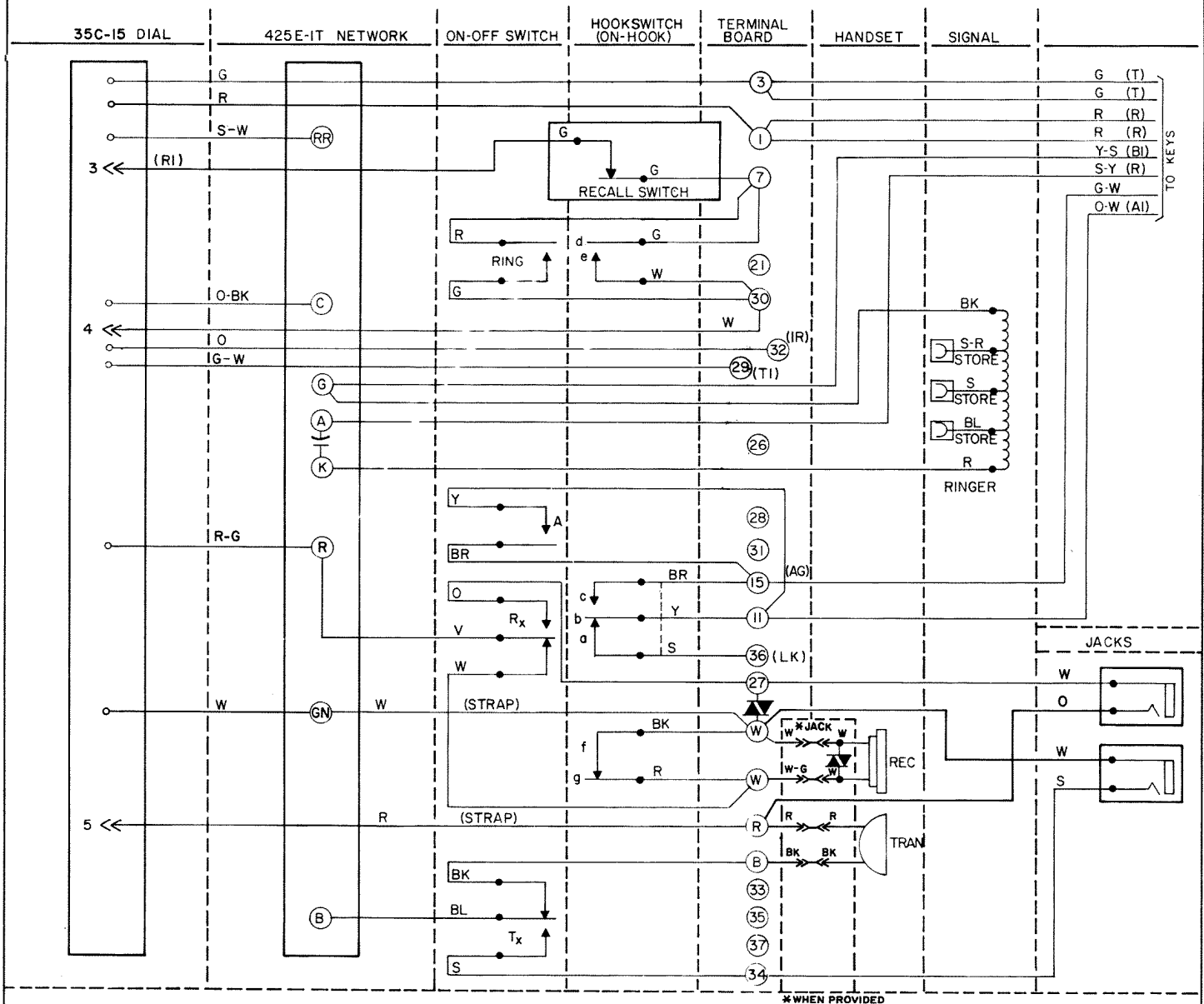
## LINE CORD



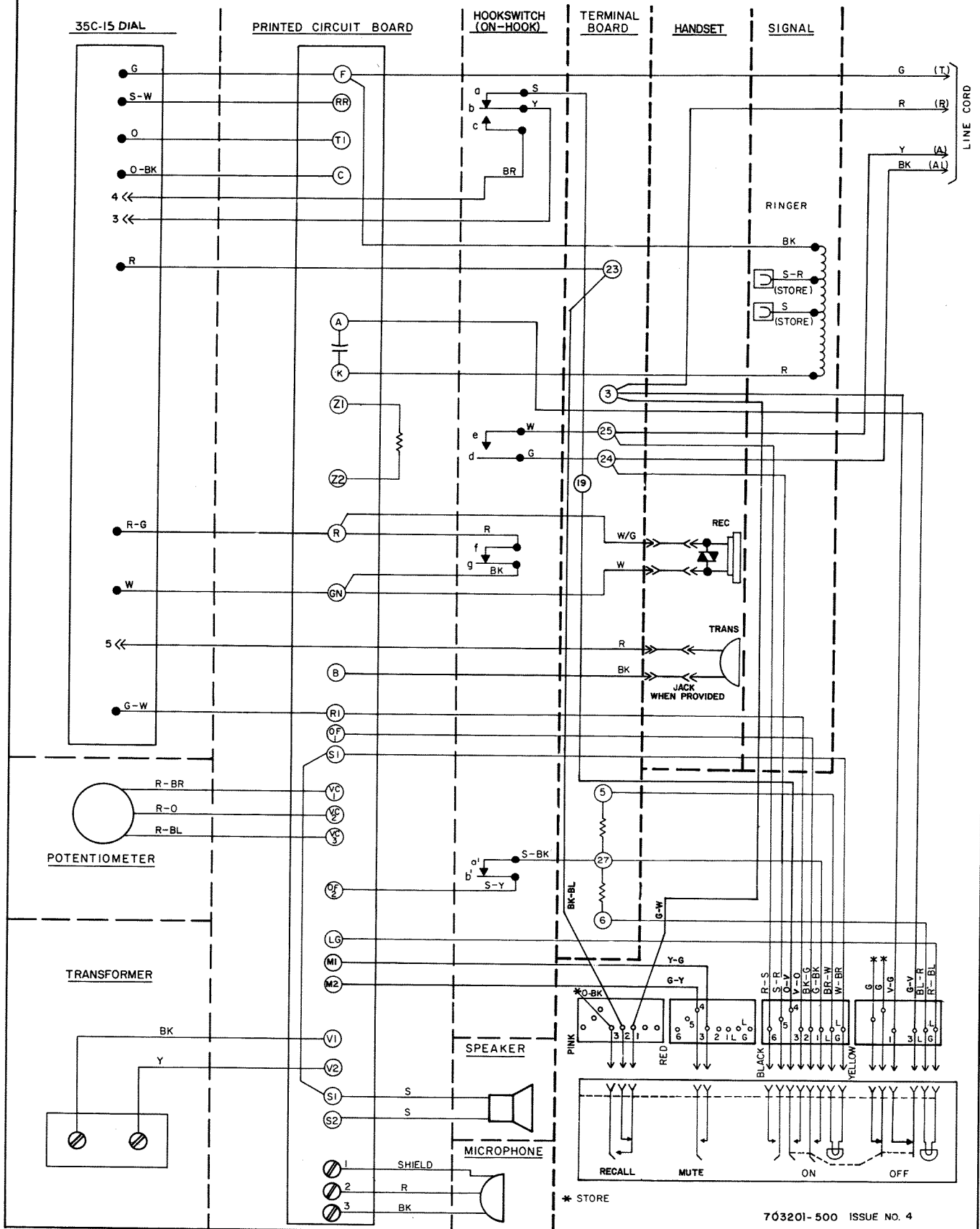
\* TAPED &amp; STORED

703201-069 ISSUE 4 PAGE 3

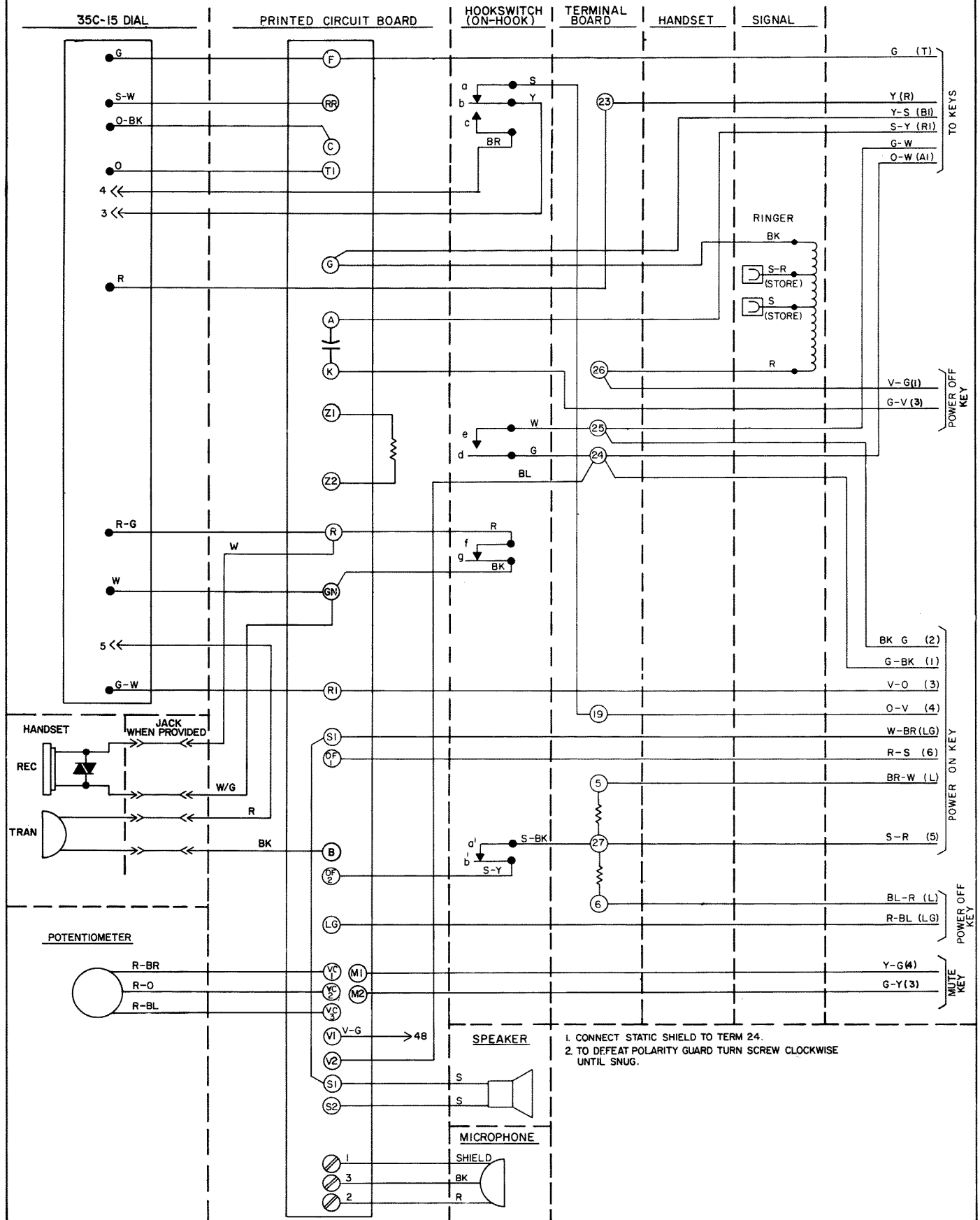
20 BUTTON SERIES TELEPHONE WITH BLF



1. CONNECT STATIC SHIELD TO TERMINAL II.
2. TO DEFEAT POLARITY GUARD TURN SCREW CLOCKWISE UNTIL SNUG.

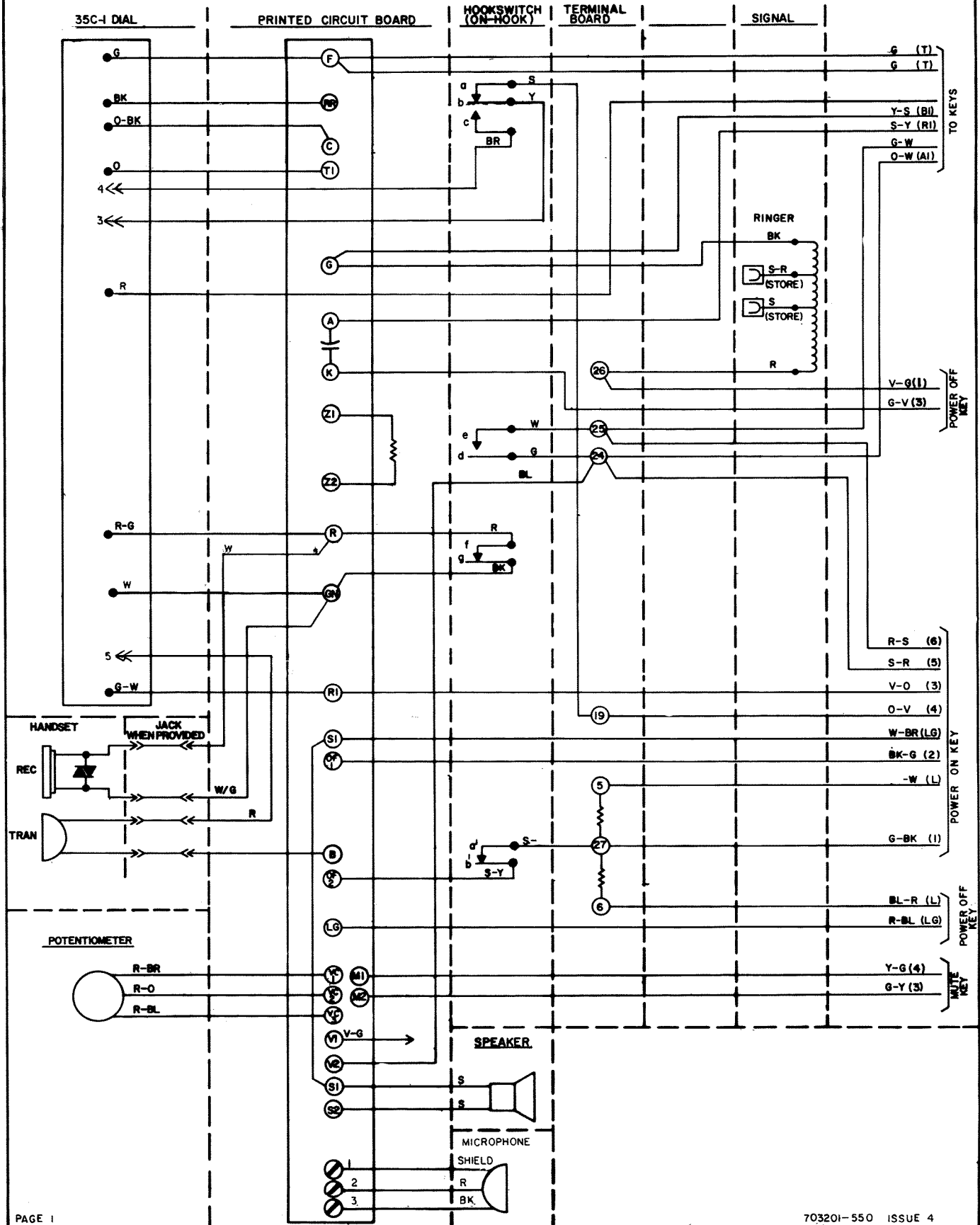


G-2842-HANDS FREE TELEPHONE

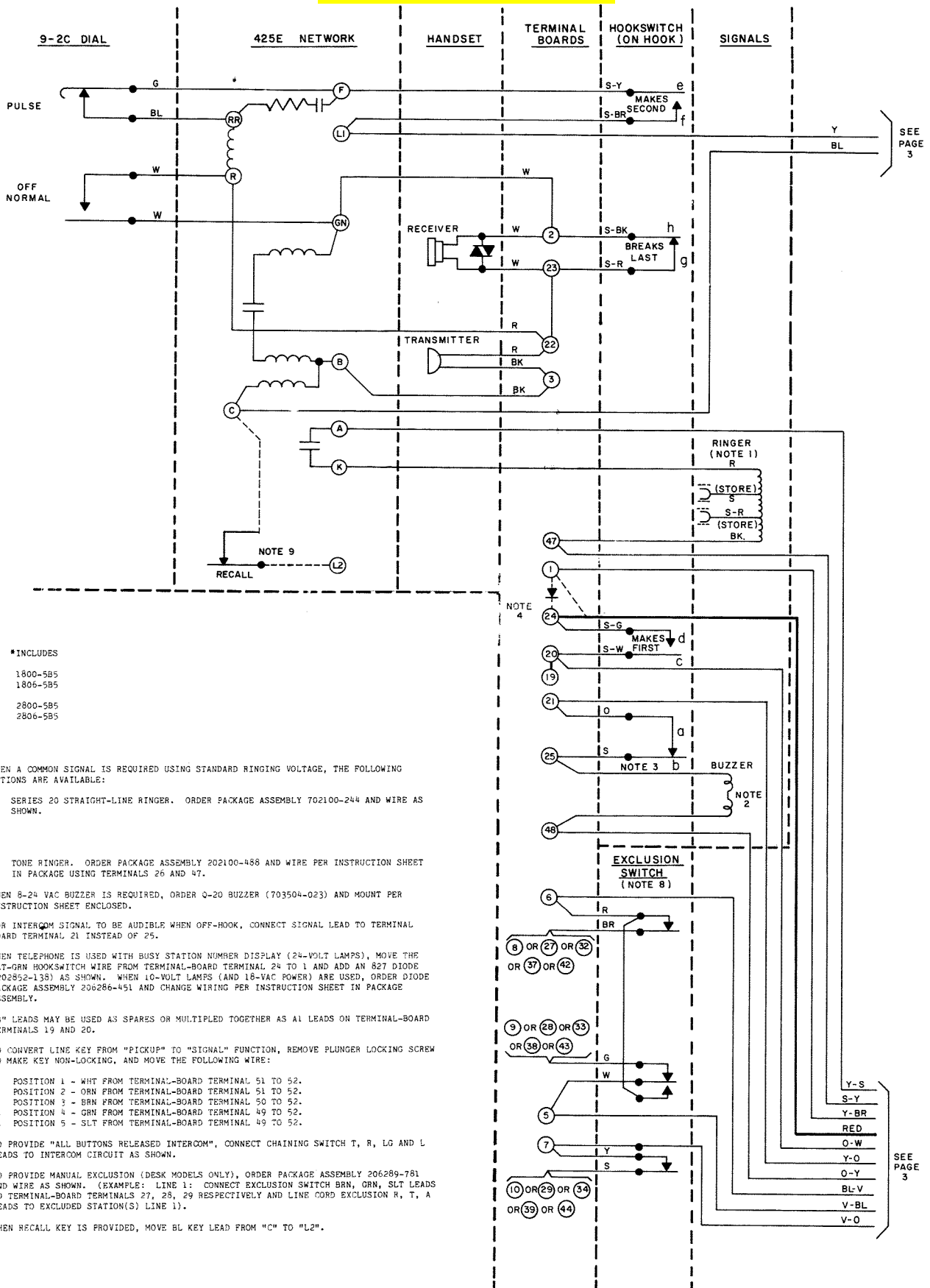




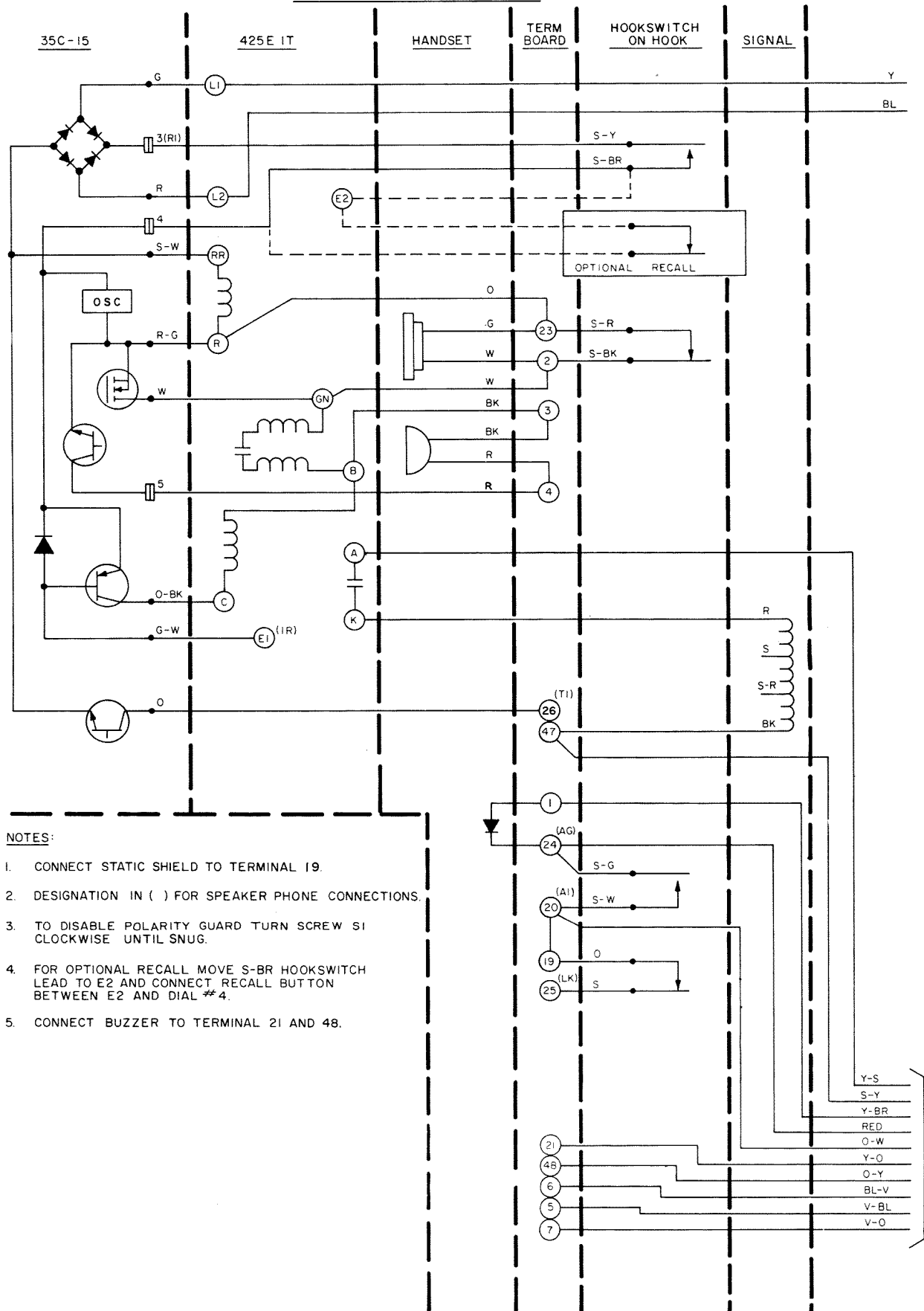
# G-2843-HANDS FREE TELEPHONE







# 2800 SERIES TELEPHONE

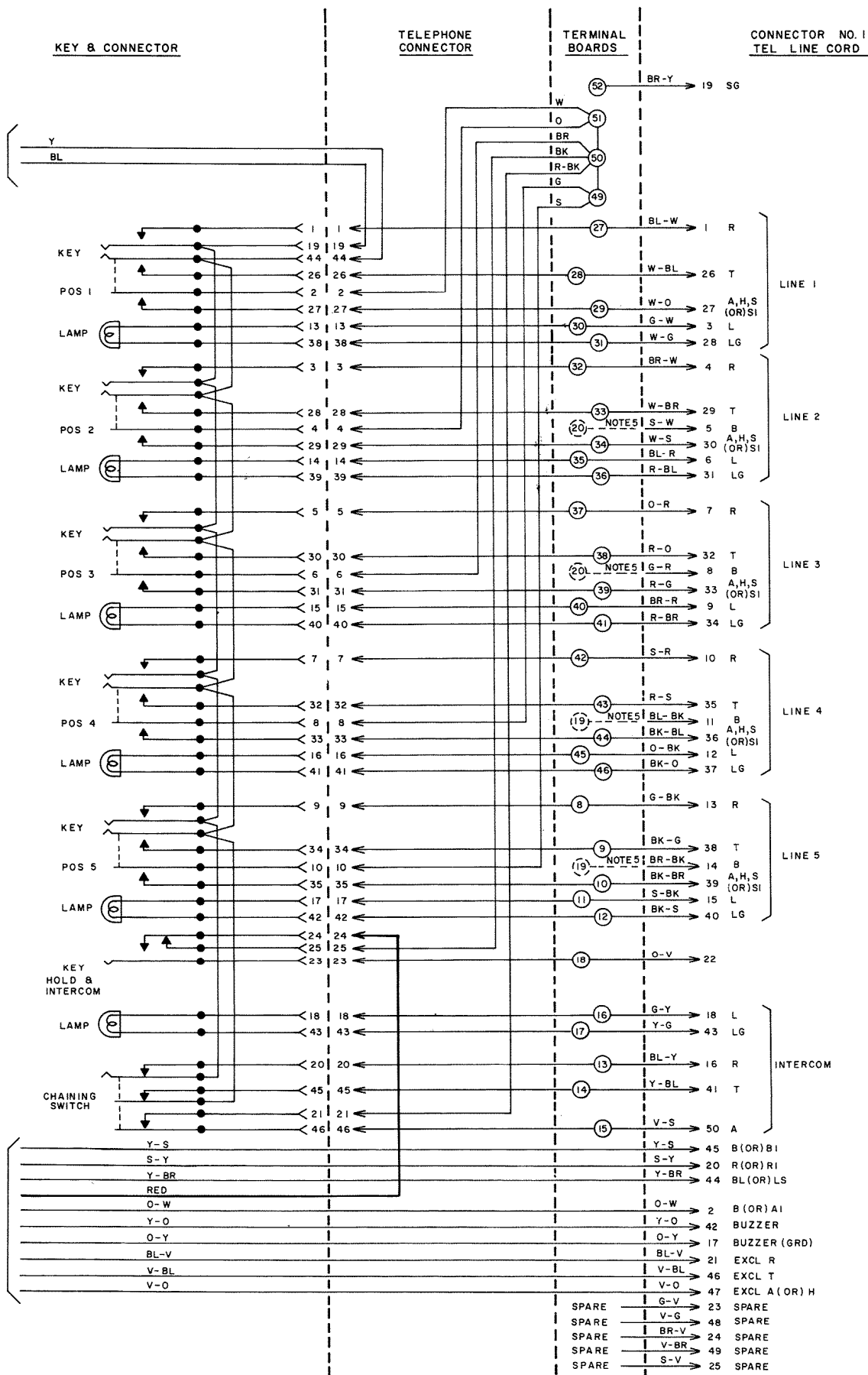


## NOTES:

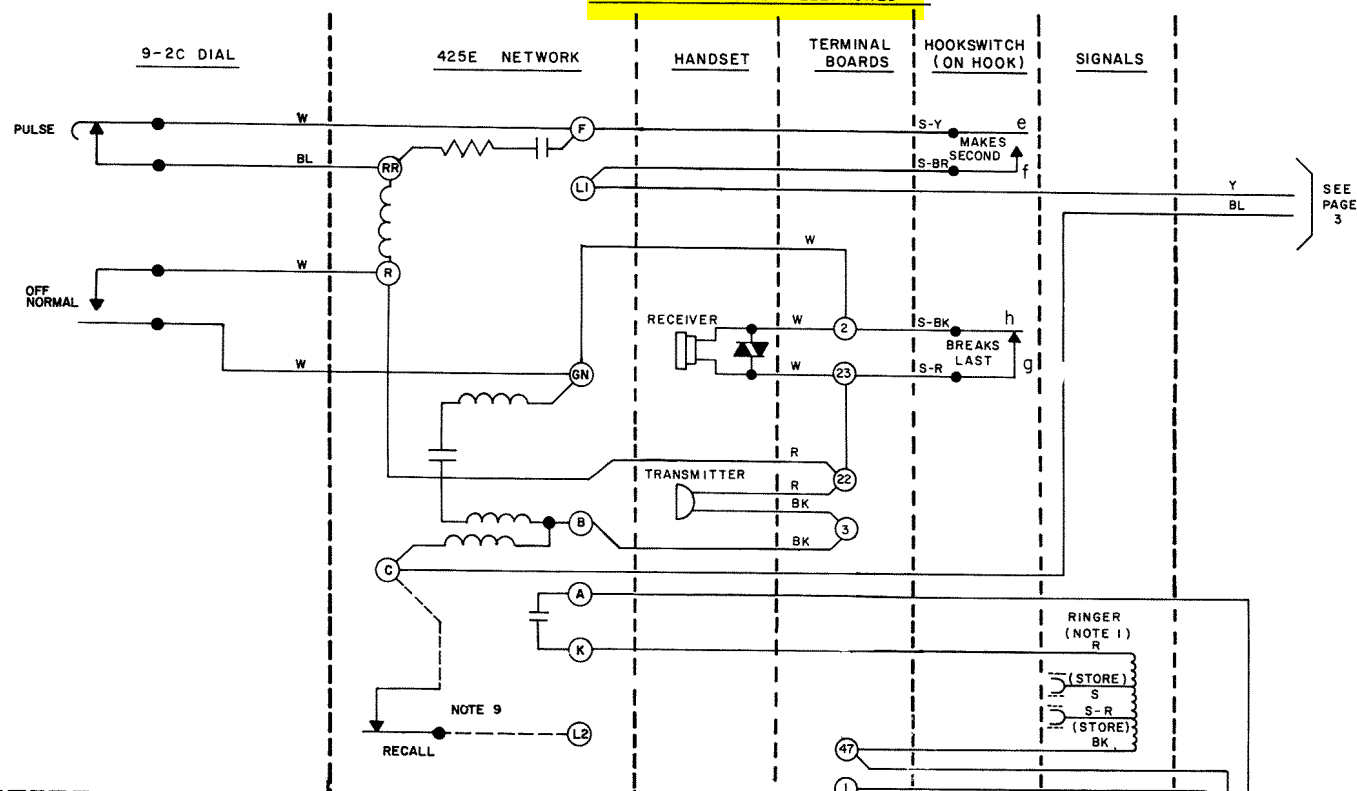
1. CONNECT STATIC SHIELD TO TERMINAL 19.
2. DESIGNATION IN ( ) FOR SPEAKER PHONE CONNECTIONS.
3. TO DISABLE POLARITY GUARD TURN SCREW S1 CLOCKWISE UNTIL SNUG.
4. FOR OPTIONAL RECALL MOVE S-BR HOOKSWITCH LEAD TO E2 AND CONNECT RECALL BUTTON BETWEEN E2 AND DIAL #4.
5. CONNECT BUZZER TO TERMINAL 21 AND 48.

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# 1800 SERIES II-LINE TELEPHONES \*

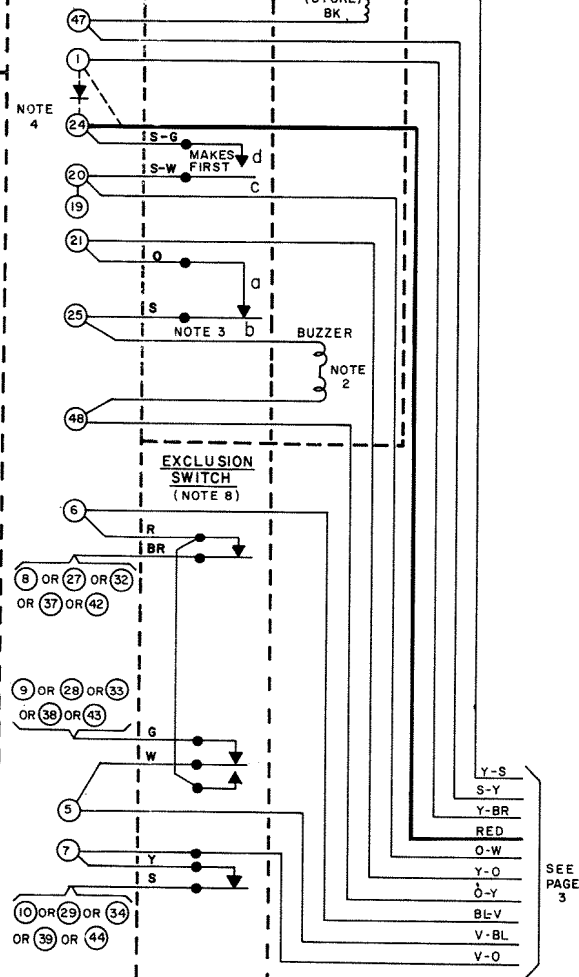


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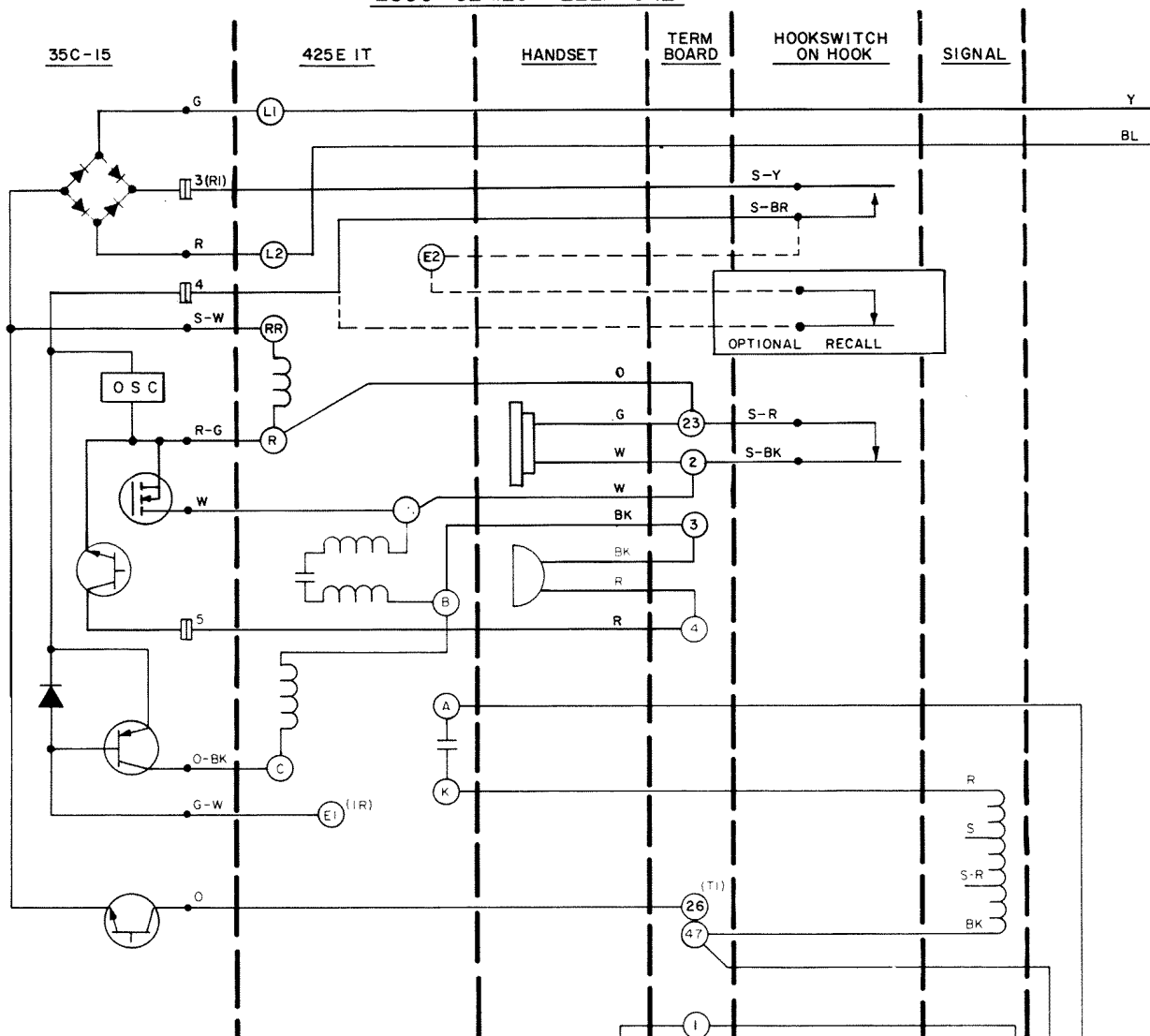
1800-11B5  
1800-11B11  
  
2800-11B5  
2800-11B11

## NOTES:

- WHEN A COMMON SIGNAL IS REQUIRED USING STANDARD RINGING VOLTAGE, THE FOLLOWING OPTIONS ARE AVAILABLE:
  - SERIES 20 STRAIGHT-LINE RINGER, ORDER PACKAGE ASSEMBLY 702100-244, AND WIRE AS SHOWN.
  - TONE RINGER, ORDER PACKAGE ASSEMBLY 202100-488 AND WIRE PER INSTRUCTION SHEET IN PACKAGE USING TERMINALS 26 AND 47.
- WHEN 8-24 VAC BUZZER IS REQUIRED, ORDER Q-20 BUZZER ( 703504-023)
- FOR INTERCOM SIGNAL TO BE AUDIBLE WHEN OFF-HOOK, CONNECT SIGNAL LEAD TO TERMINAL-BOARD TERMINAL 21 INSTEAD OF 25.
- WHEN TELEPHONE IS USED WITH BUSY STATION NUMBER DISPLAY (24-VOLT LAMPS), MOVE THE SLT-GRN HOOKSWITCH WIRE FROM TERMINAL-BOARD TERMINAL 24 TO 1 AND ADD AN 827 DIODE (202852-138) AS SHOWN. WHEN 10-VOLT LAMPS (AND 18-VAC POWER) ARE USED, ORDER DIODE PACKAGE ASSEMBLY 206286-451 AND CHANGE WIRING PER INSTRUCTION SHEET IN PACKAGE ASSEMBLY.
- "B" LEADS MAY BE USED AS SPARES OR MULTIPLE TOGETHER AS A1 LEADS ON TERMINAL-BOARD TERMINALS 19 AND 20.
- TO CONVERT LINE KEY FROM "PICKUP" TO "SIGNAL" FUNCTION, REMOVE PLUNGER LOCKING SCREW TO MAKE KEY NON-LOCKING, AND MOVE THE FOLLOWING WIRE.
  - POSITION 1 - WHT FROM TERMINAL-BOARD TERMINAL 51 TO 52.
  - POSITION 2 - ORN FROM TERMINAL-BOARD TERMINAL 51 TO 52.
  - POSITION 3 - BRN FROM TERMINAL-BOARD TERMINAL 50 TO 52.
  - POSITION 4 - GRN FROM TERMINAL-BOARD TERMINAL 49 TO 52.
  - POSITION 5 - SLT FROM TERMINAL-BOARD TERMINAL 53 TO 52.
  - POSITION 6 - WHT FROM TERMINAL-BOARD TERMINAL 53 TO 52.
  - POSITION 7 - ORN FROM TERMINAL-BOARD TERMINAL 53 TO 52.
  - POSITION 8 - BRN FROM TERMINAL-BOARD TERMINAL 54 TO 52.
  - POSITION 9 - BLK FROM TERMINAL-BOARD TERMINAL 54 TO 52.
  - POSITION 10 - GRN FROM TERMINAL-BOARD TERMINAL 55 TO 52.
  - POSITION 11 - SLT FROM TERMINAL-BOARD TERMINAL 55 TO 52.
- TO PROVIDE "ALL BUTTONS RELEASED INTERCOM" ON TELEPHONES EQUIPPED WITH ONE KEY STRIP CONNECT BLU-YEL (R), YEL-BLU (T), YEL-GRN (LG), AND GRN-YEL (L) (ALL IN BLU-WHT BINDER) TO INTERCOM CIRCUIT. ON TELEPHONES EQUIPPED WITH TWO KEY STRIPS CONNECT SLT-YEL (R), YEL-SLT (T) (ALL IN ORN-WHT BINDER), AND YEL-GRN (LG), GRN-YEL (L) (ALL IN BLU-WHT BINDER) TO INTERCOM CIRCUIT. ALSO DISCONNECT BLU-YEL, YEL-BLU, AND VIO-SLT LINE CORD LEADS FROM TERMINAL-BOARD TERMINALS 13, 14, AND 15.
- TO PROVIDE MANUAL EXCLUSION (DESK MODELS ONLY), ORDER PACKAGE ASSEMBLY 205289-781 AND WIRE AS SHOWN. (EXAMPLE: LINE 1: CONNECT EXCLUSION SWITCH BRN, GRN SLT LEADS TO TERMINAL-BOARD TERMINALS 27, 28, 29 RESPECTIVELY AND LINE CORD EXCLUSION R, T, A LEADS TO EXCLUDED STATION (S) LINE 1).
- WHEN RECALL KEY IS PROVIDED, MOVE BL KEY LEAD FROM "C" TO "L2"

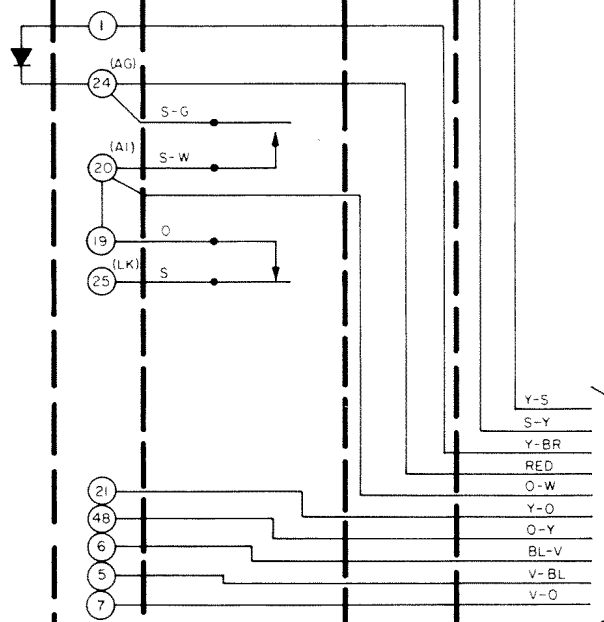


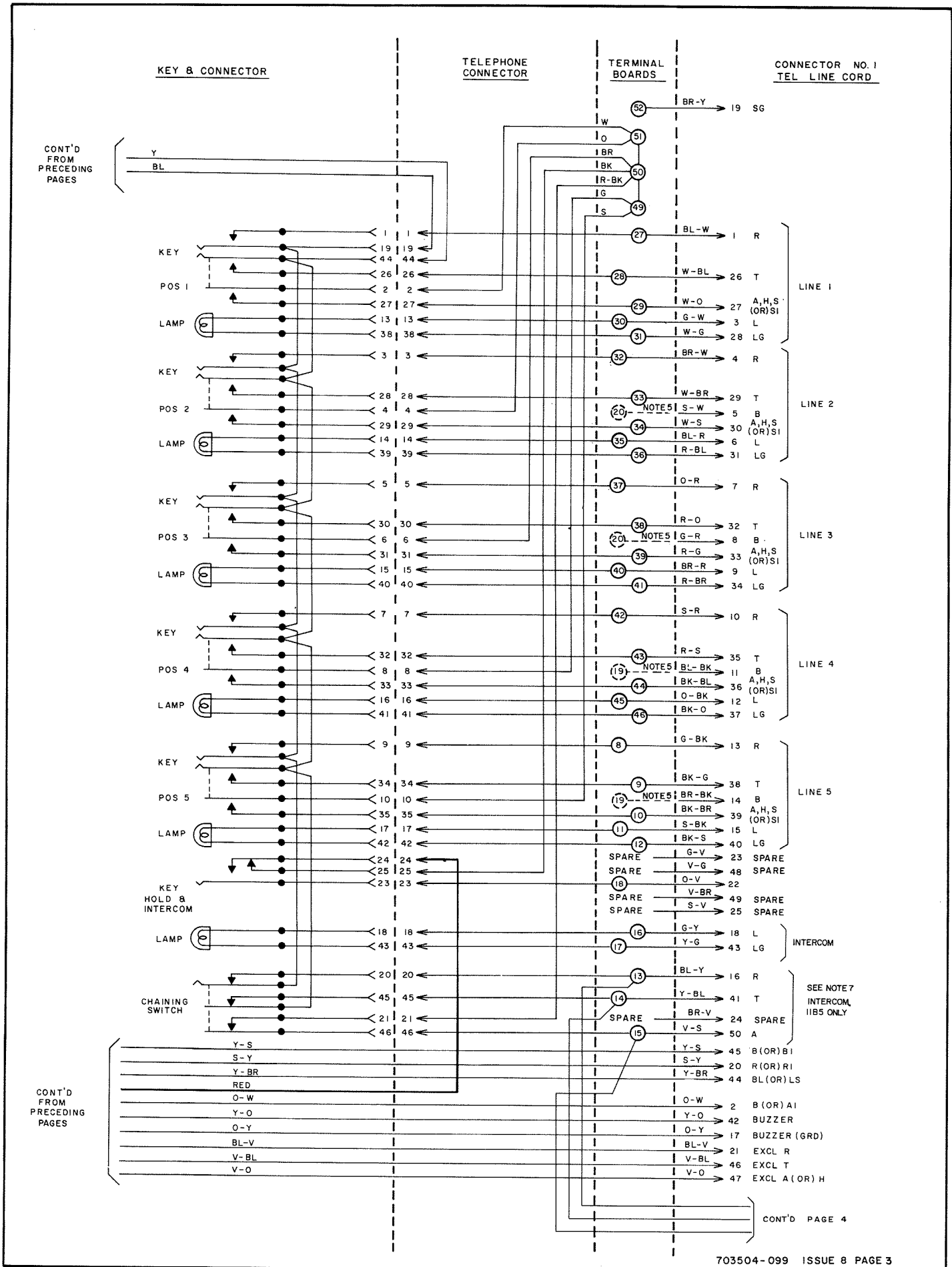
# 2800 SERIES TELEPHONE

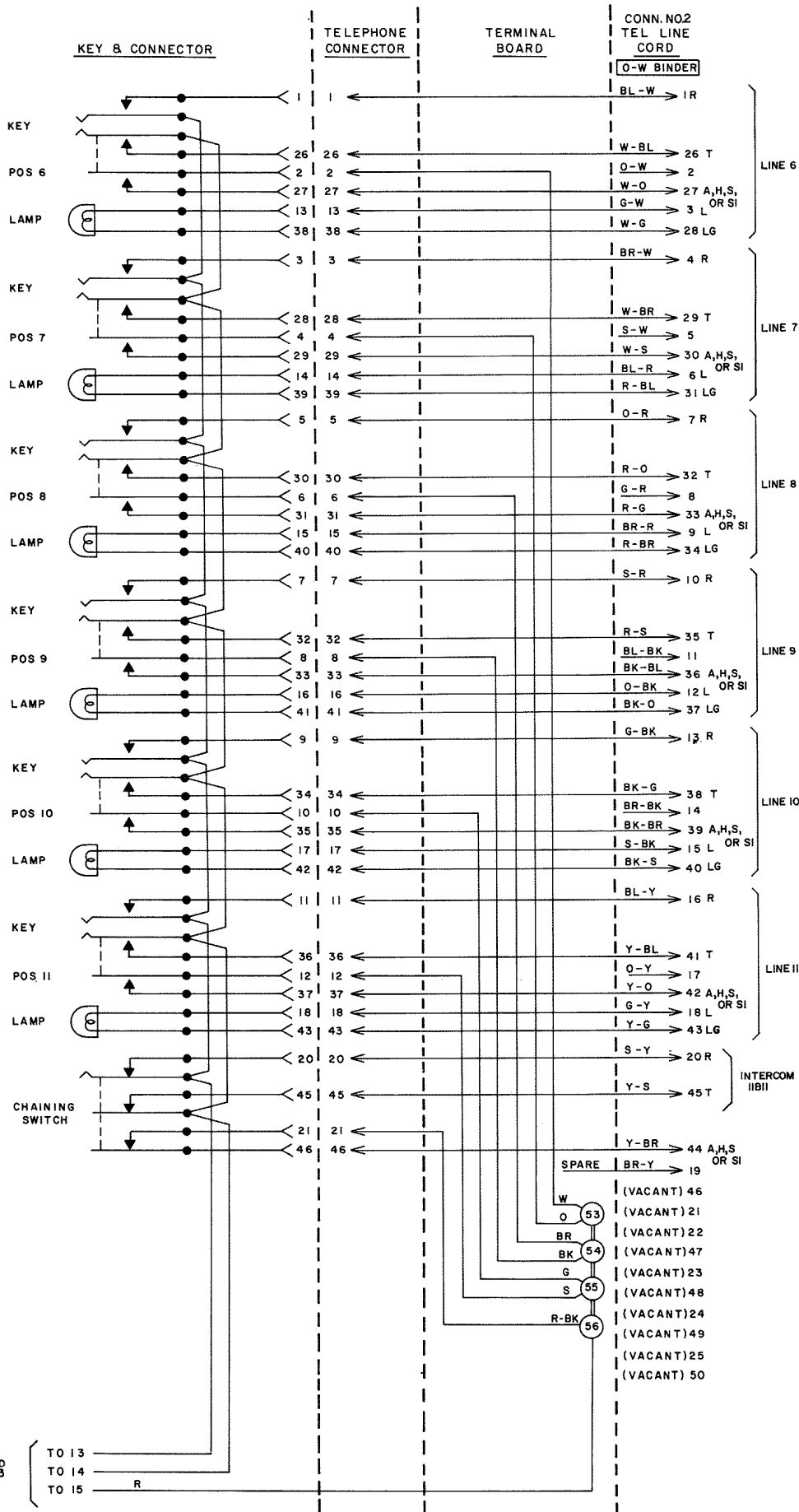


## NOTES:

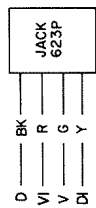
1. CONNECT STATIC SHIELD TO TERMINAL 19
2. DESIGNATION IN ( ) FOR SPEAKER PHONE CONNECTIONS.
3. TO DISABLE POLARITY GUARD TURN SCREW S1 CLOCKWISE UNTIL SNUG.
4. FOR OPTIONAL RECALL MOVE S-BR HOOKSWITCH LEAD TO E2 AND CONNECT RECALL BUTTON BETWEEN E2 AND DIAL #4.
5. CONNECT BUZZER TO TERMINAL 21 AND 48.



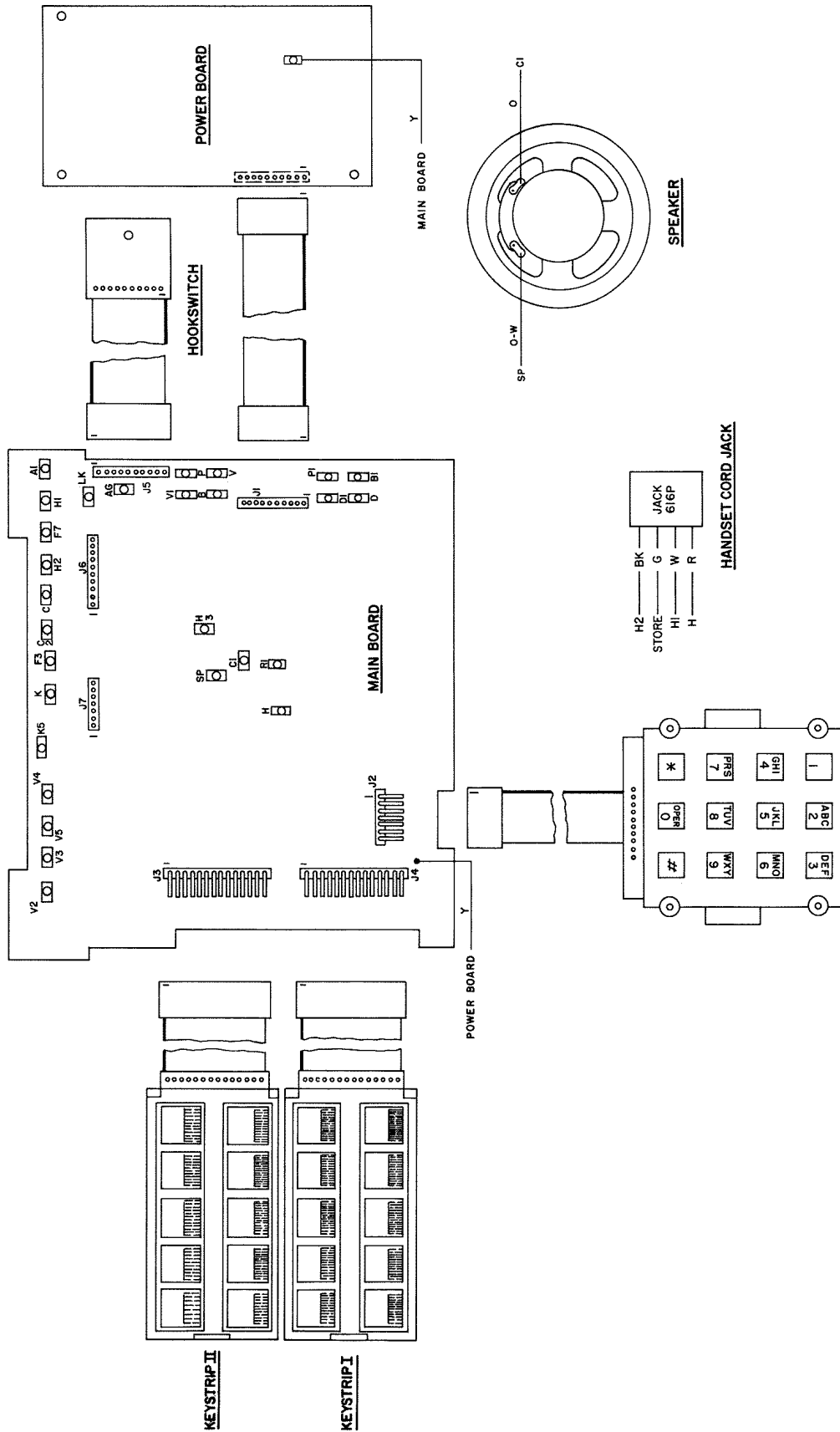




| STRAPS |    |        |
|--------|----|--------|
| FROM   | TO | COLOR  |
| P      | B  | RED    |
| P1     | B1 | GREEN  |
| H1     | F7 | SLATE  |
| V2     | H2 | WHITE  |
| V3     | V4 | BROWN  |
| V5     | H3 | ORANGE |



LINE CORD JACK



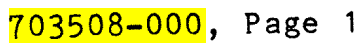
NOTE:

1. FOR SCHEMATIC SEE: S-435040-MAIN BOARD
2. HEAVY LINE INDICATES TRACER ON RIBBON CABLES. OBSERVE POLARITY AS SHOWN.

CS705997 MAIN BOARD  
CS705996 POWER BOARD  
CS706057 HANDSFREE BOARD  
CS703508 HANDSFREE SWITCH BOARD  
CS706051 CALL ANNOUNCE MIC BOARD

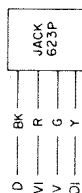
2. HEAVY LINE INDICATES TRACER ON RIBBON CABLES ASSOCIATED WITH PIN 1  
OBSERVE POLARITY AS SHOWN.

3. REMOVE STRAPS S1 & S2 ON POWER BOARD IF POWER TRANSFORMER IS USED.
4. REMOVE CALL ANNOUNCE MIC BOARD IF HANDSFREE BOARD PROVIDED.

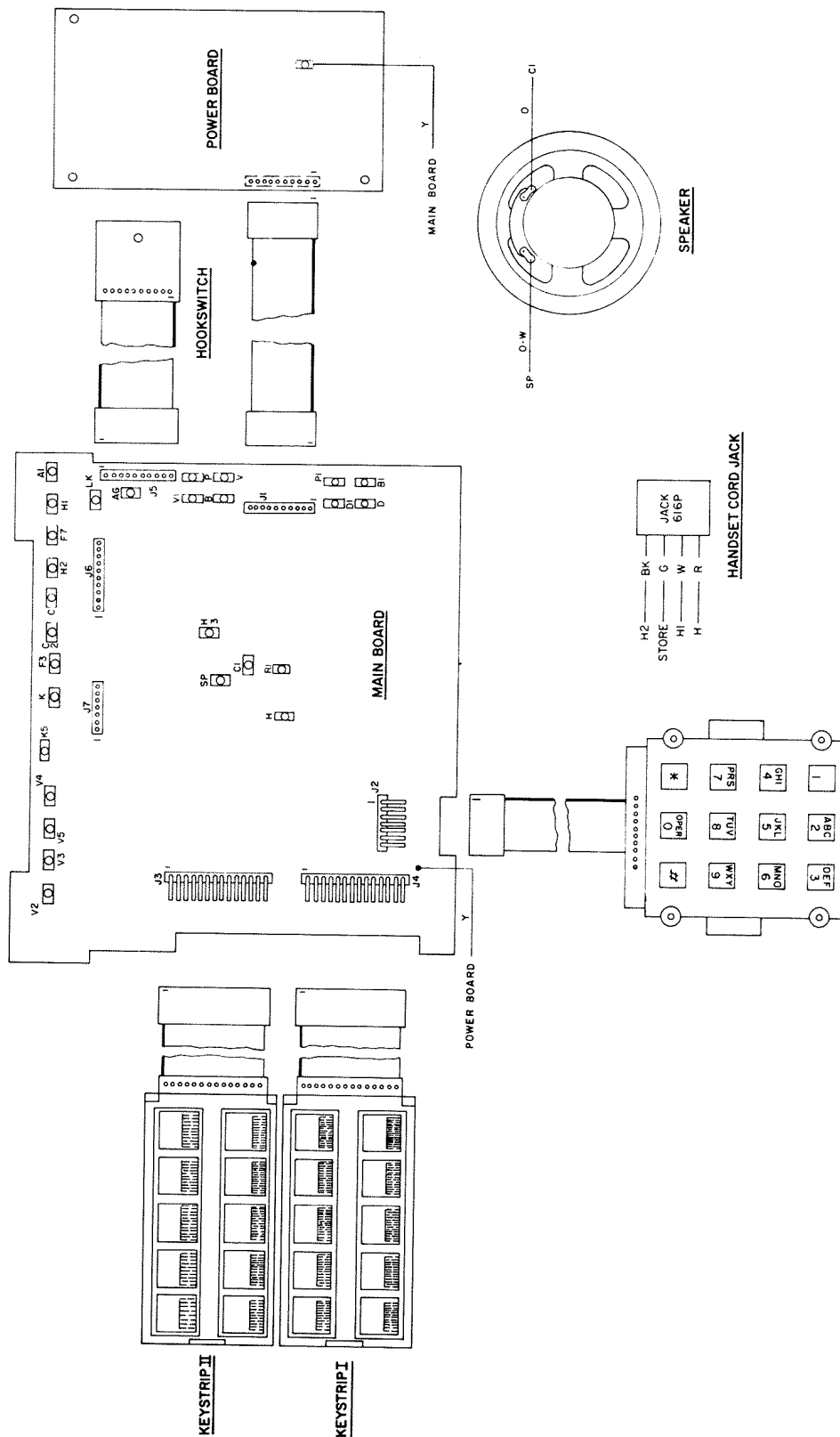


| ADAPTER CABLE<br>TO 4A SPEAKERPHONE |       |       |  |
|-------------------------------------|-------|-------|--|
| C, PHONE                            | CABLE | 4A    |  |
| TERMINAL                            | COLOR | DET'S |  |
| Lr                                  | Y     | LK    |  |
| A3                                  | R     | AG    |  |
| A1                                  | W     | AI    |  |
| H2                                  | BK    | TI    |  |
| R1                                  | BL    | RI    |  |
| K5                                  | G     | KB    |  |
| K                                   | BN    | KC    |  |
| C2                                  | S     | KM    |  |

| ADAPTER CABLE<br>TO 4A SPEAKERPHONE |       |       |  |
|-------------------------------------|-------|-------|--|
| C, PHONE                            | CABLE | 4A    |  |
| TERMINAL                            | COLOR | DET'S |  |
| Lr                                  | Y     | LK    |  |
| A3                                  | R     | AG    |  |
| A1                                  | W     | AI    |  |
| H2                                  | BK    | TI    |  |
| R1                                  | BL    | RI    |  |
| K5                                  | G     | KB    |  |
| K                                   | BN    | KC    |  |
| C2                                  | S     | KM    |  |



LINE CORD JACK



**NOTE:**

1. FOR SCHEMATIC SEE CS-706049 - MAIN BOARD  
'S-435039 - POWER BOARD
2. HEAVY LINE INDICATES TRACER ON RIBBON CABLES.  
OBSERVE POLARITY AS SHOWN.

# PRELIMINARY

703508-839 ISSUE NO 1A

## INSTRUCTION

### INSTALLATION OF STATIC SHIELD ON TONE DIALS

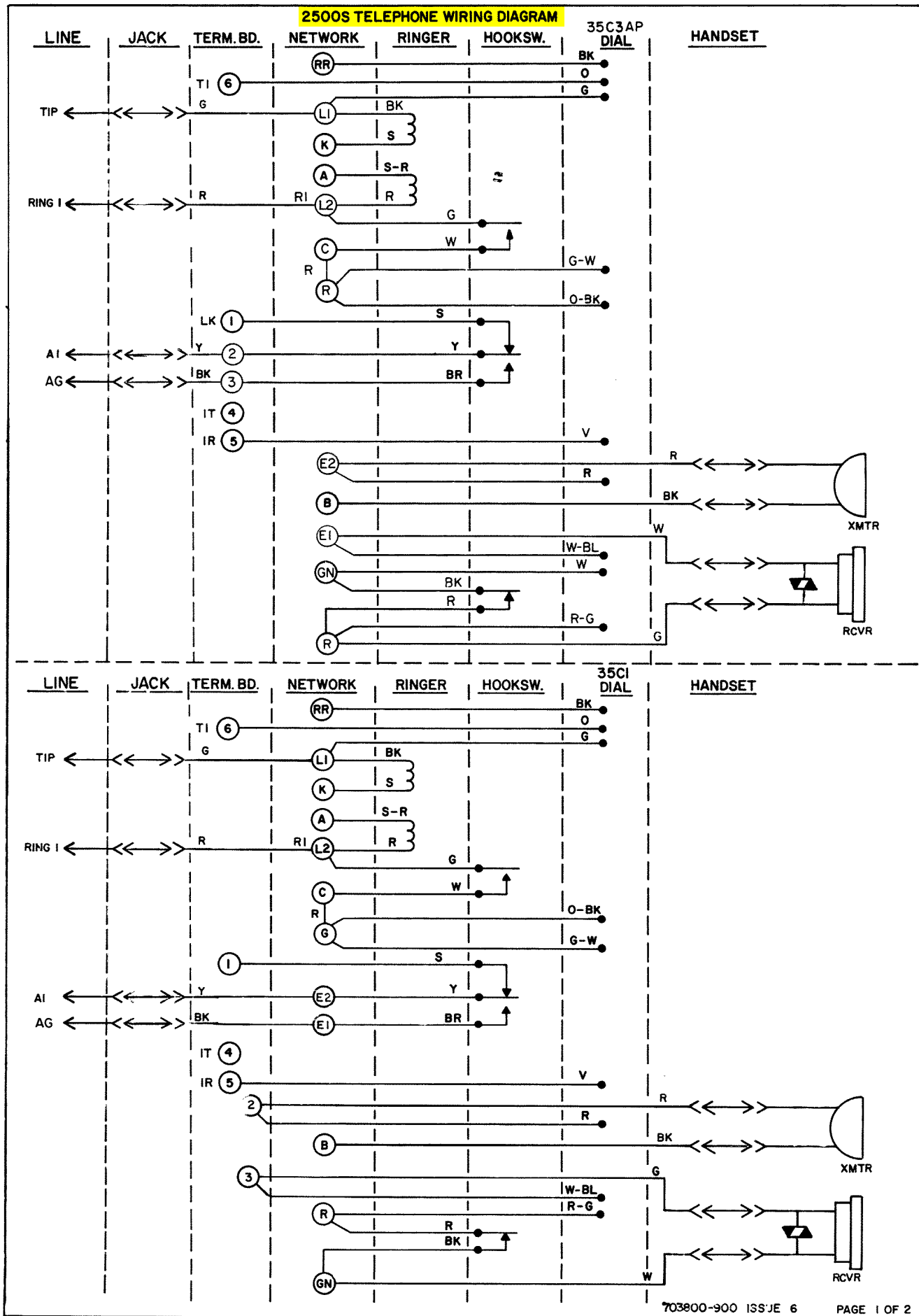
1. REMOVE HOUSING.
2. PLACE SHIELD OVER DIAL BUTTONS, ORIENTED WITH THE WIRE LEAD AT THE BOTTOM OF THE DIAL, NEAR EITHER THE "\*" OR THE "#" BUTTON.
3. THE LEAD OF THE SHIELD SHOULD BE CONNECTED TO THE CLOSEST GROUND. THIS COULD BE THE "TIP" SIDE OF THE LINE (+) OR THE AI LEAD IN A KEY SYSTEM.
4. SEE CHART BELOW FOR DIFFERENT TELEPHONES.

| TELEPHONES             | CONNECT LEAD TO |
|------------------------|-----------------|
| 2500                   | NETWORK LI      |
| 2554 (MINIWALL)        | NETWORK LI      |
| *2800 3 LINE           | TERM 15 *       |
| 2800 5 & 11 LINE       | TERM 19         |
| 2800 17 & 29 LINE      | TERM 1          |
| L.S.T. SINGLE LINE     | NETWORK LI      |
| L.S.T. 5 LINE          | TERM 19         |
| NEW IMAGE 6 BUTTON     | TERM 10         |
| NEW IMAGE 10/20 BUTTON | TERM 10         |
| HANDSFREE SINGLE LINE  | NETWORK F       |
| HANDSFREE MULTILINE    | TERM 25         |

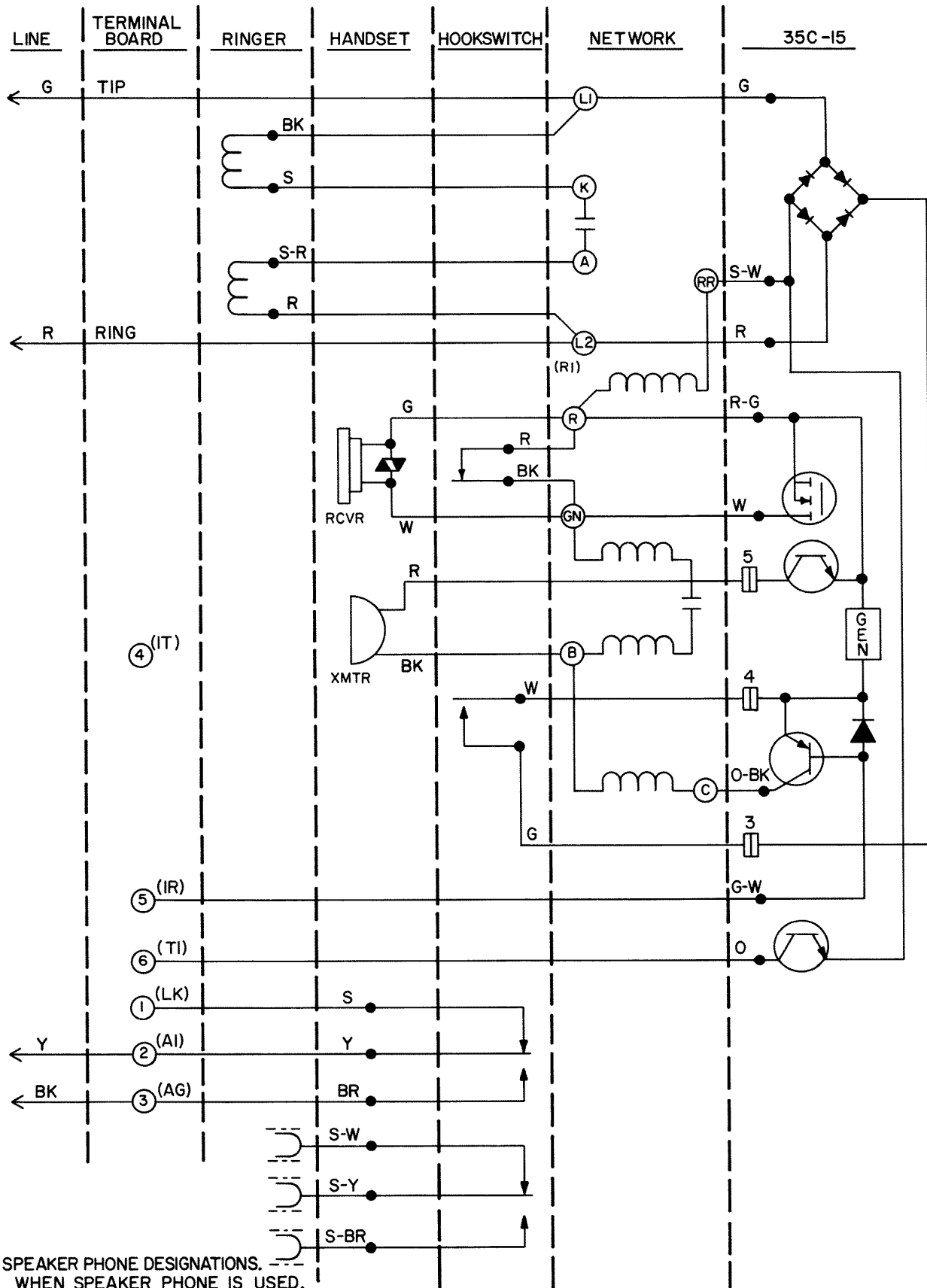
\* NOTE: R-BR LINE CORD LEAD MUST BE CONNECTED TO EARTH GROUND.

703800-000 ISSUE 3

# 2500S TELEPHONE WIRING DIAGRAM

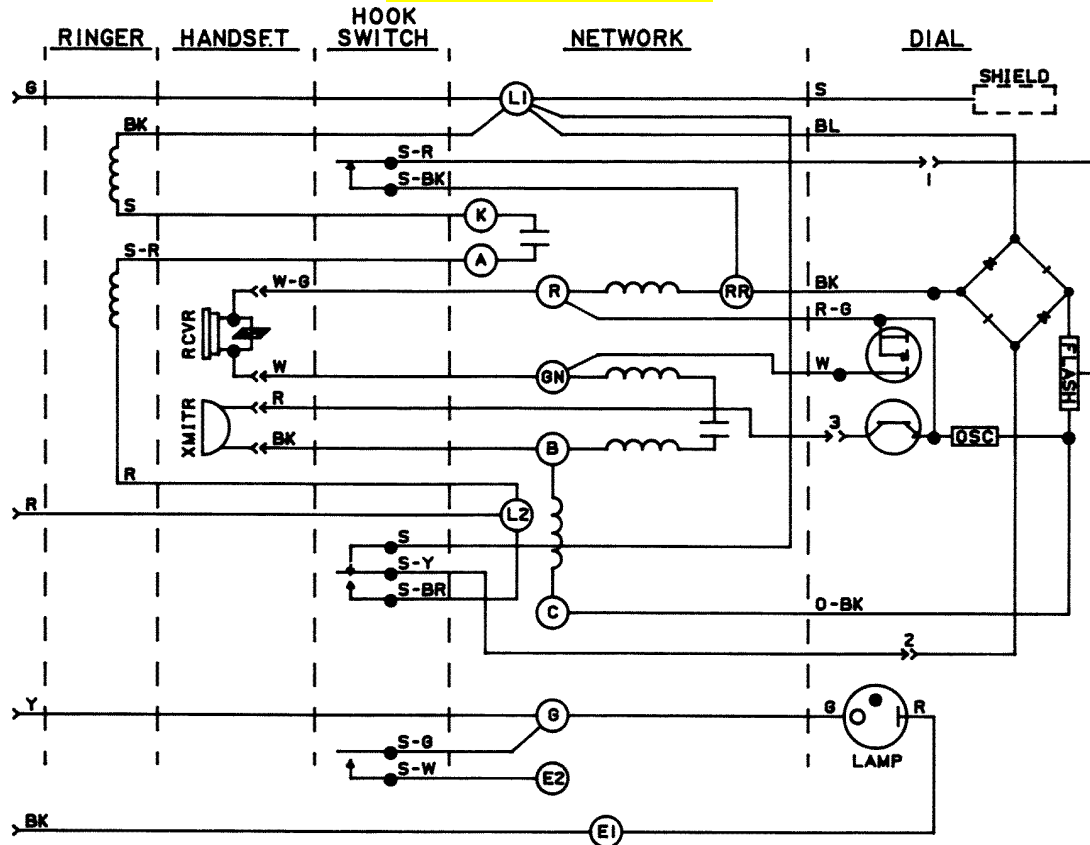


# 2500S TELEPHONE WIRING DIAGRAM



(I) SPEAKER PHONE DESIGNATIONS.  
WHEN SPEAKER PHONE IS USED,  
CONNECT STATIC SHIELD TO TERMINAL # 2.

# ROLM "FLASHPHONE" WIRING DIAGRAM



## WARNING

THIS TELEPHONE TONE-DIAL TM GENERATES AND USES RADIO FREQUENCY ENERGY. IF NOT INSTALLED PROPERLY, IT MAY CAUSE INTERFERENCE TO RADIO OR TELEVISION RECEPTION.

THIS DIAL HAS BEEN TYPE TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS B COMPUTING DEVICE IN ACCORDANCE WITH THE SPECIFICATIONS IN SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE IN A RESIDENTIAL INSTALLATION. HIGHER LEVELS OF INTERFERENCE ARE PERMISSIBLE IN BUSINESS INSTALLATIONS THAN IN RESIDENTIAL INSTALLATIONS.

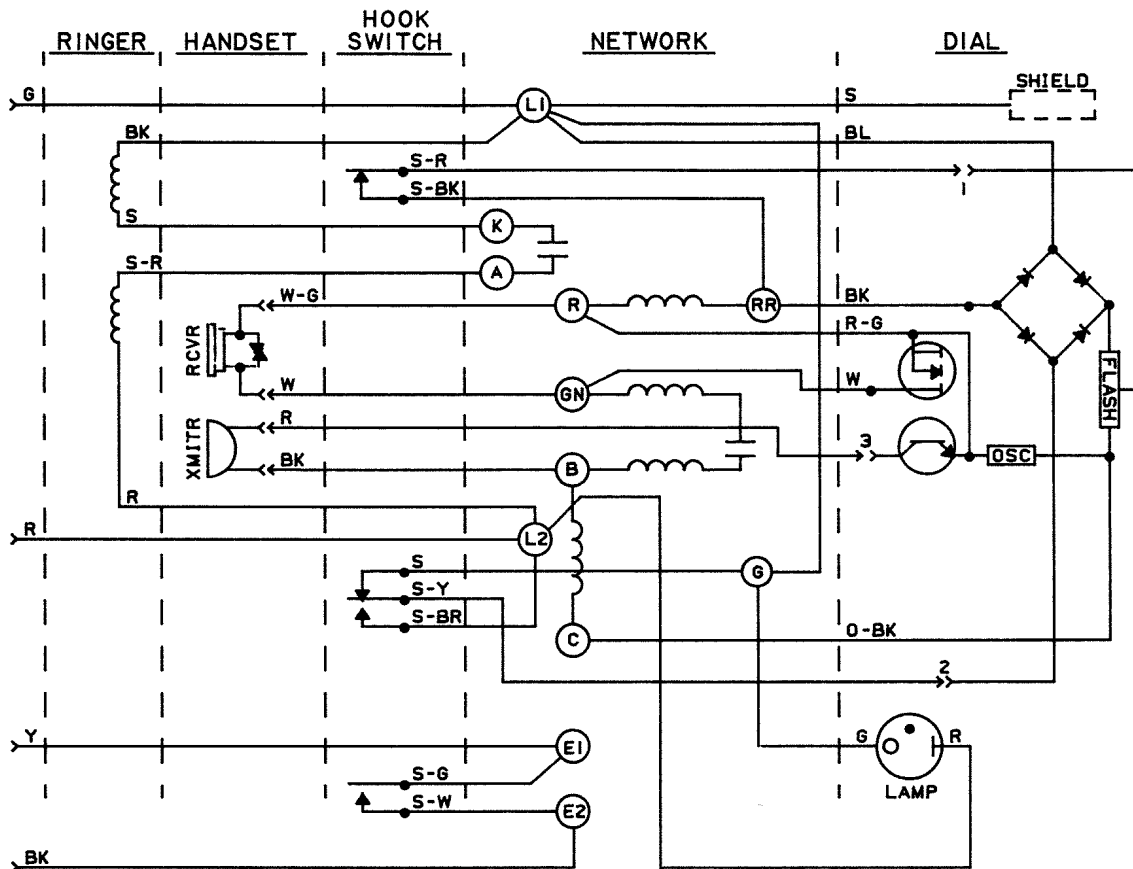
THERE IS NO GUARANTEE THAT INTERFERENCE WILL NOT OCCUR IN A PARTICULAR INSTALLATION. IF THE DIAL SHOULD CAUSE INTERFERENCE TO RADIO OR TELEVISION RECEPTION, INTERFERENCE WILL BE PRESENT ONLY WHILE DIALING IS IN PROGRESS. IF THIS IS DETERMINED TO OCCUR, THE USER IS ENCOURAGED TO TRY TO CORRECT THE INTERFERENCE BY ONE OR MORE OF THE FOLLOWING MEASURES:

- REORIENT THE RECEIVING ANTENNA  
--RELOCATE THE RECEIVER OR THE TELEPHONE  
--USE A DIFFERENT BRANCH POWER CIRCUIT FOR THE RECEIVER

FOR FURTHER ASSISTANCE, CONTACT COMDIAL OR AN EXPERIENCED RADIO/TELEVISION TECHNICIAN.

703801-112 ISS.NO. 5

# TRANSFER ACCESS PHONE WIRING DIAGRAM (TAP) COMDIAL TELEPHONE SYSTEMS



## WARNING

THIS TELEPHONE TONE-DIAL TM GENERATES AND USES RADIO FREQUENCY ENERGY. IF NOT INSTALLED PROPERLY, IT MAY CAUSE INTERFERENCE TO RADIO OR TELEVISION RECEPTION.

THIS DIAL HAS BEEN TYPE TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS B COMPUTING DEVICE IN ACCORDANCE WITH THE SPECIFICATIONS IN SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE IN A RESIDENTIAL INSTALLATION. HIGHER LEVELS OF INTERFERENCE ARE PERMISSIBLE IN BUSINESS INSTALLATIONS THAN IN RESIDENTIAL INSTALLATIONS.

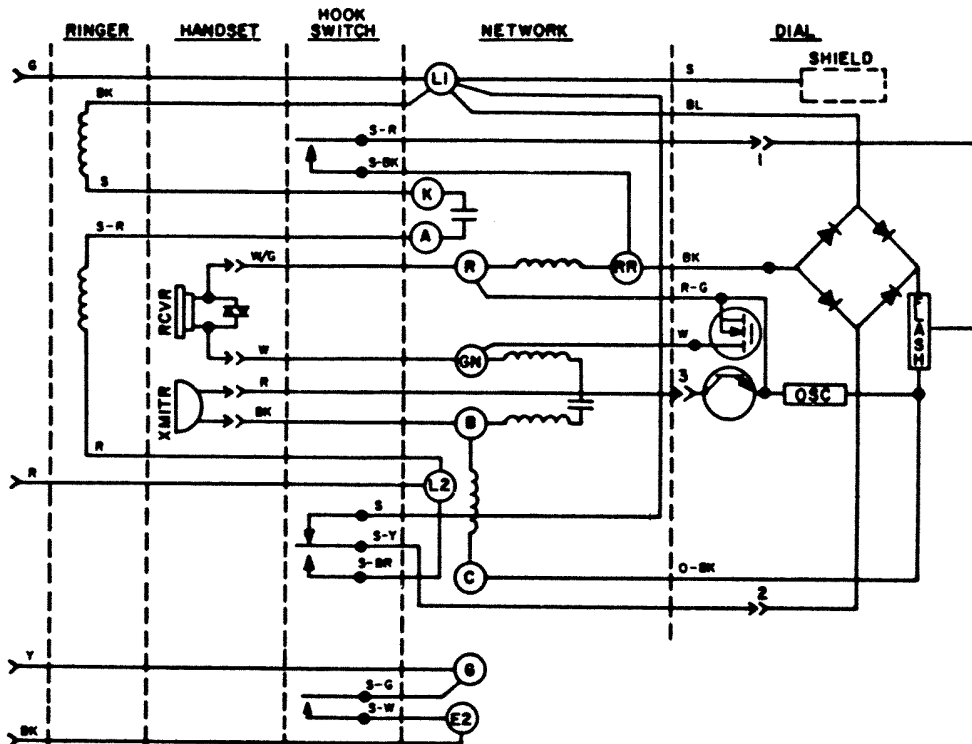
THERE IS NO GUARANTEE THAT INTERFERENCE WILL NOT OCCUR IN A PARTICULAR INSTALLATION. IF THE DIAL SHOULD CAUSE INTERFERENCE TO RADIO OR TELEVISION RECEPTION, INTERFERENCE WILL BE PRESENT ONLY WHILE DIALING IS IN PROGRESS. IF THIS IS DETERMINED TO OCCUR, THE USER IS ENCOURAGED TO TRY TO CORRECT THE INTERFERENCE BY ONE OR MORE OF THE FOLLOWING MEASURES:

- REORIENT THE RECEIVING ANTENNA
- RELOCATE THE RECEIVER OR THE TELEPHONE
- USE A DIFFERENT BRANCH POWER CIRCUIT FOR THE RECEIVER

FOR FURTHER ASSISTANCE, CONTACT COMDIAL OR AN EXPERIENCED RADIO/TELEVISION TECHNICIAN.

# TRANSFER ACCESS PHONE WIRING DIAGRAM (TAP)

## COMDIAL TELEPHONE SYSTEMS



### WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

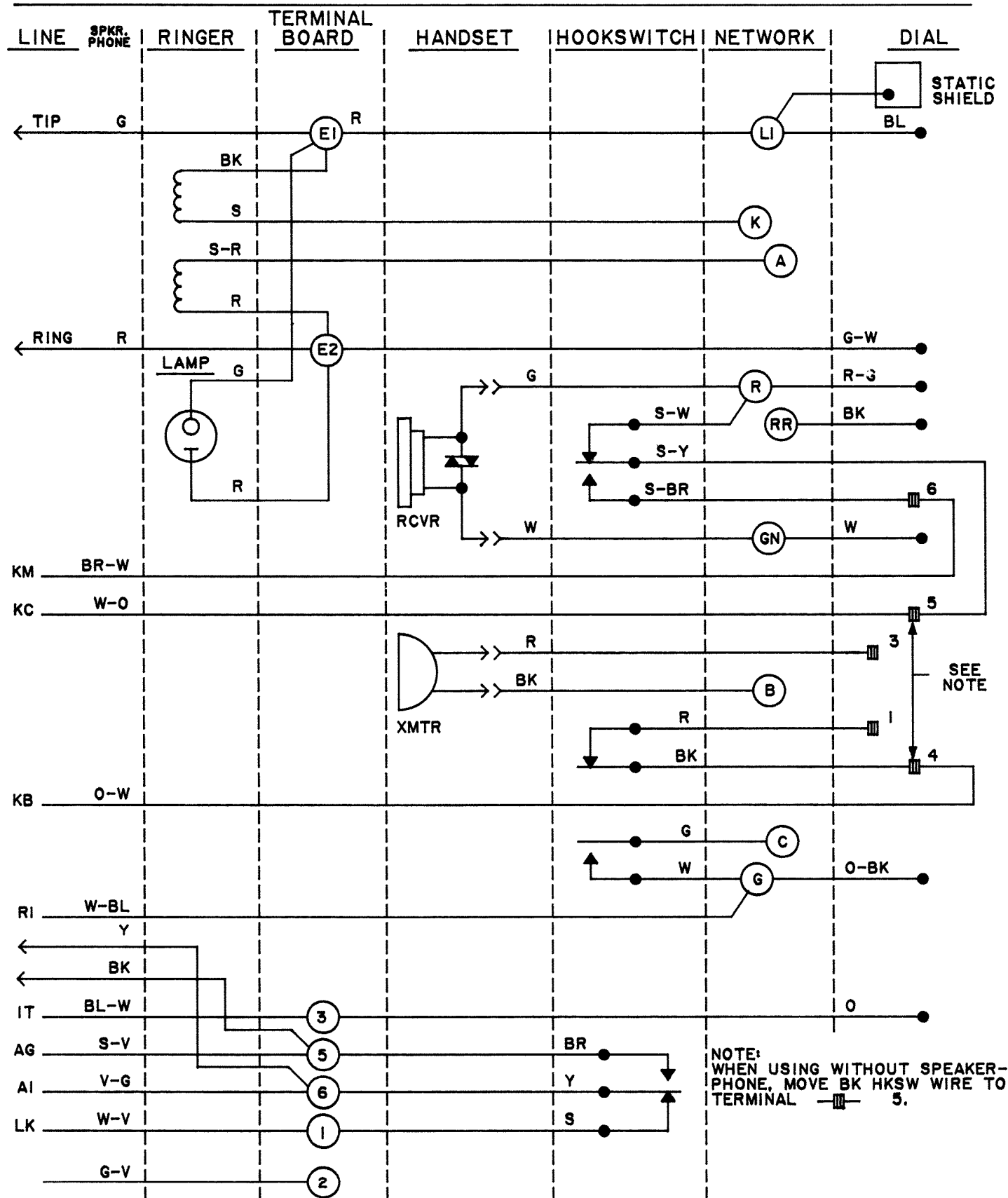
This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

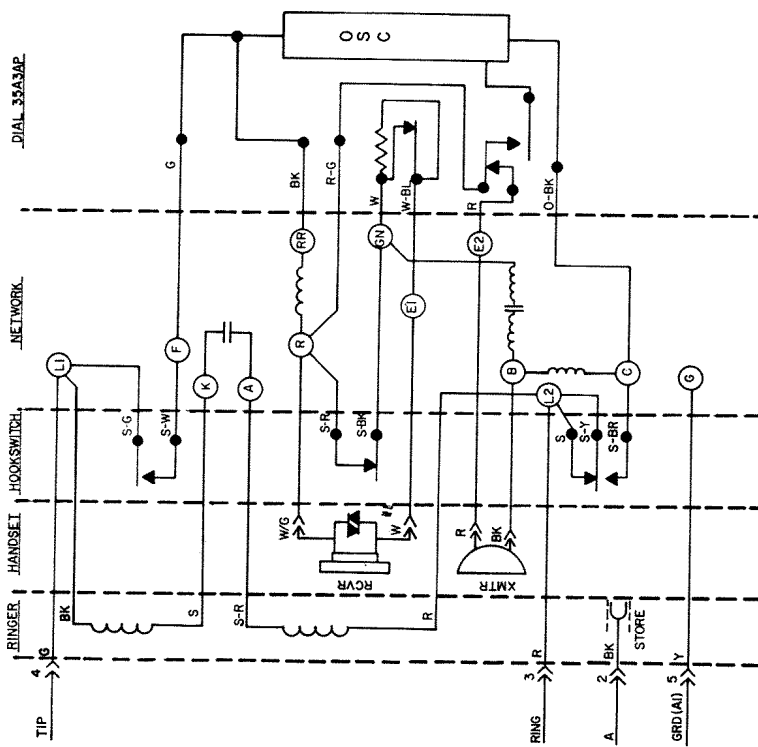
- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

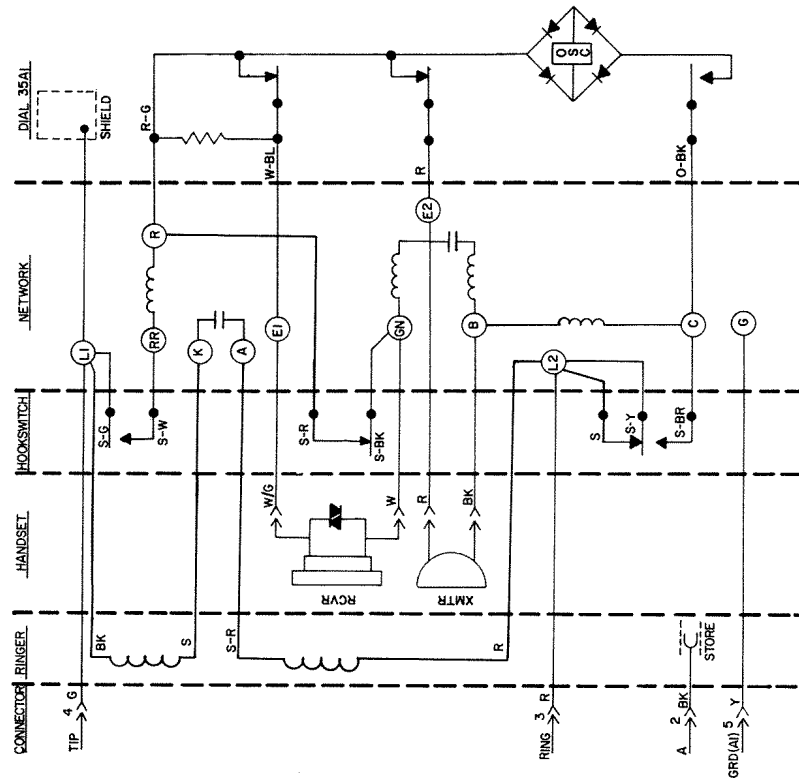
# WIRING DIAGRAM TAP PHONE W/MESSAGE WAITING



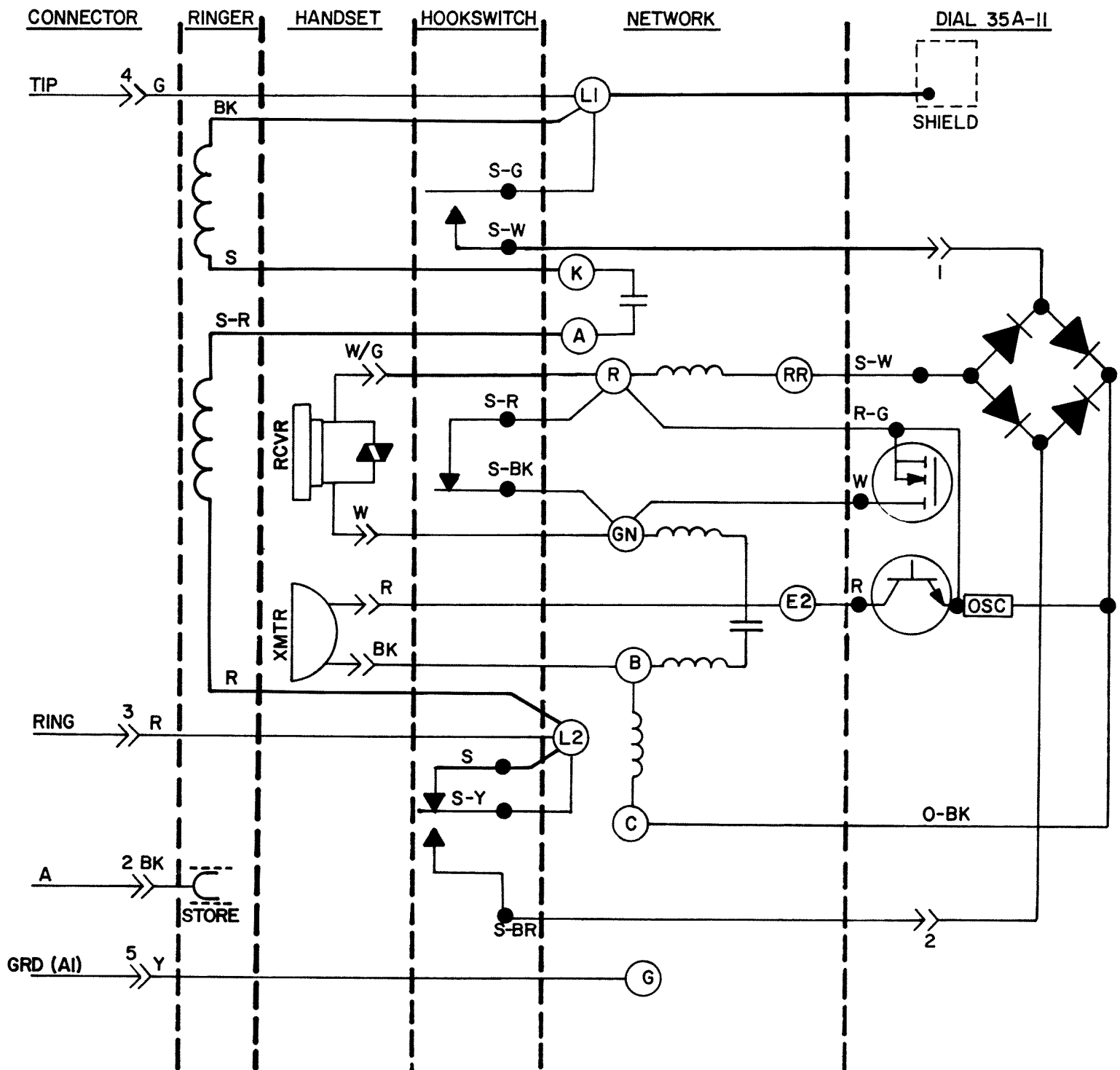
703811-000 ISS. 5



FOR 'X' LEAD CONTROL: CONNECT GREEN LINE LEAD (AND BK RINGER LEAD) TO F,  
BLACK LINE LEAD TO L1, AND SLATE-WHITE HOOKSWITCH LEAD TO G.



FOR 'A' LEAD CONTROL: CONNECT GREEN LINE LEAD (AND BK RINGER LEAD) TO RR, BLACK  
LINE LEAD TO L1, AND SLATE-WHITE HOOKSWITCH LEAD AND SHIELD LEAD TO 'G'.

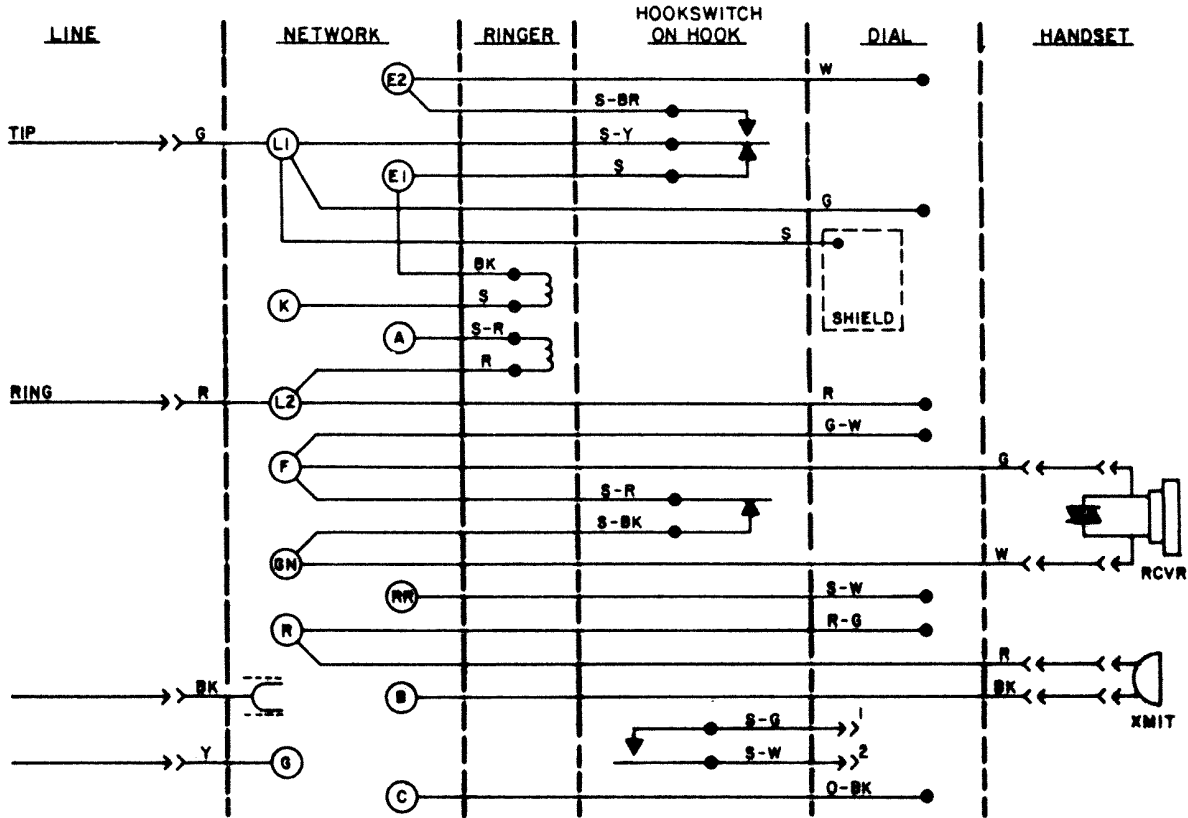


FOR "A" LEAD CONTROL: CONNECT GREEN LINE LEAD (AND BK RINGER LEAD) TO #1 ON TONE DIAL, BLACK LINE LEAD TO LI, AND SLATE-WHITE HOOKSWITCH LEAD AND SHIELD LEAD TO "G".

FIG. 3

720070-000 ISSUE NO 8  
SHT 2 OF 2

# 6500DM TELEPHONE WIRING DIAGRAM



## OPERATING INSTRUCTIONS PUSH-PULSE™ DIAL

### TO ORIGINATE A CALL

1. Lift handset, and wait for dial tone.
2. Press buttons for number being called.

### TO REPEAT CALL ATTEMPT TO SAME NUMBER

1. Lift handset, and wait for dial tone.
2. Press # button. Last number called will be dialed automatically.

### TO ORIGINATE A CALL REQUIRING ACCESS CODES

(Example: Dialing "9" for outside call from a PBX station.)

1. Lift handset, and wait for dial tone.
2. Press buttons for access code number.
3. Press # button to show that access code has been completed.
4. Wait for second dial tone.
5. Press buttons for number being called.

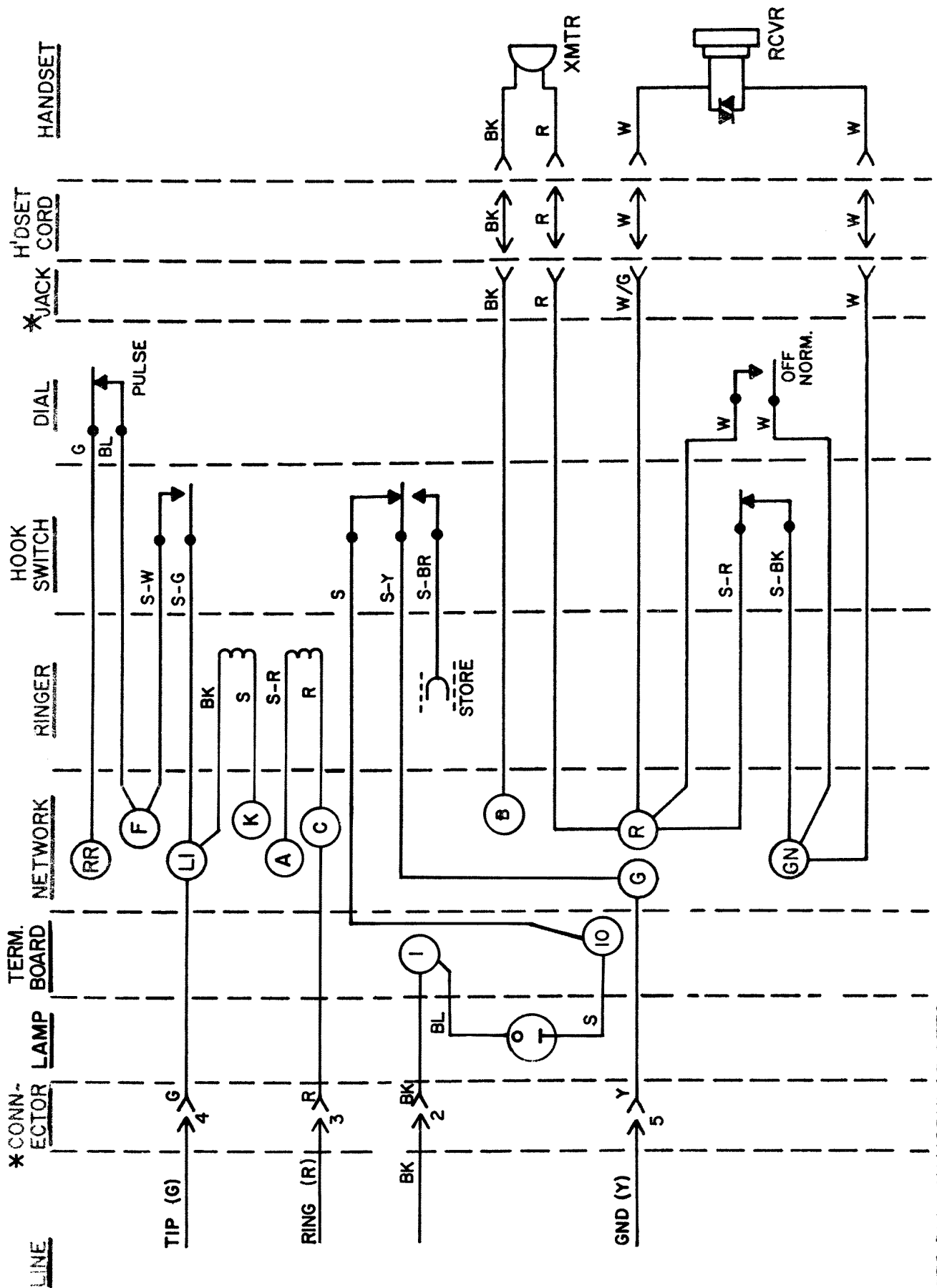
### TO REPEAT CALL ATTEMPT REQUIRING ACCESS CODE TO SAME NUMBER

1. Lift handset, and wait for dial tone.
2. Press # button. Access code will be dialed automatically.
3. Wait for second dial tone.
4. Press # button again. Remainder of last number called will be dialed automatically.

NOTE 1: Access code may have as many digits as needed. However, total number dialed cannot exceed 20 digits. Each operation of # button counts as a digit.

NOTE 2: Dialing via private networks may require an access code followed by another access code, with dial tone being heard after each access code. The # button must be pressed to allow for a wait for each dial tone.

COMDIAL



\* USED ONLY ON MODULAR SETS

2500-Y TELEPHONE WIRING DIAGRAM  
COMBIAL TELEPHONE SYSTEMS

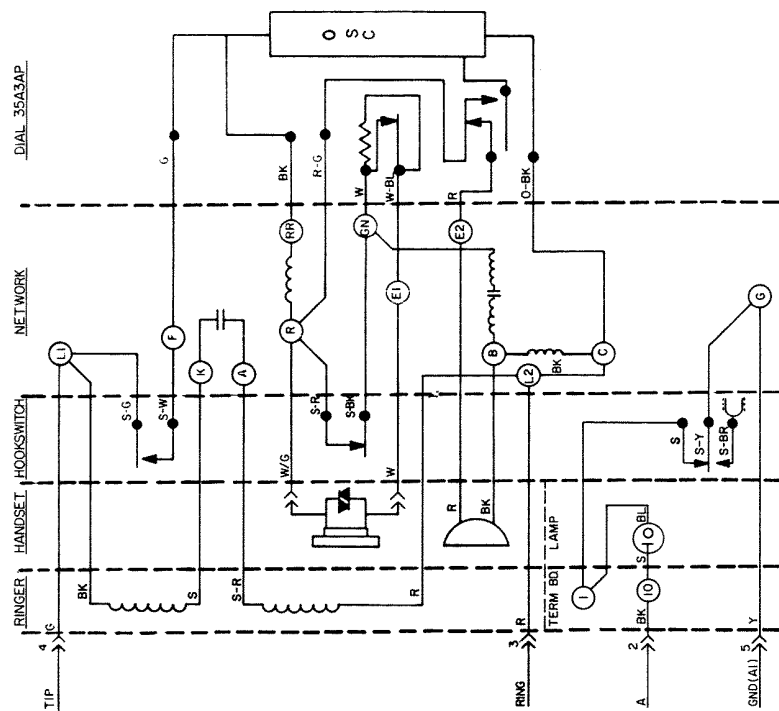


FIG. 1

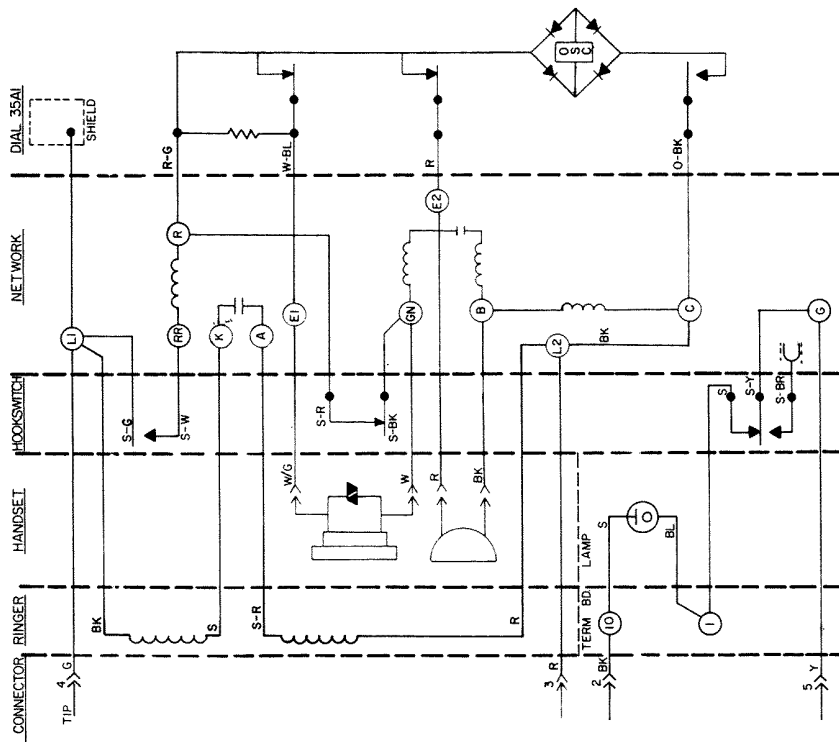


FIG. 2

720170-000 ISSUE 6  
SHT. 1 OF 2

### WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

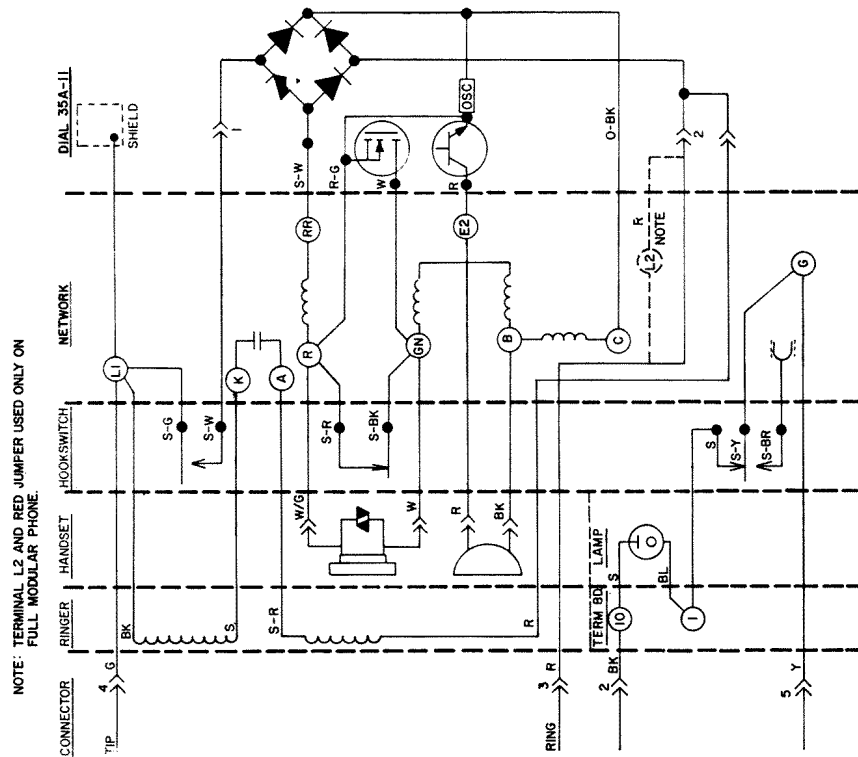
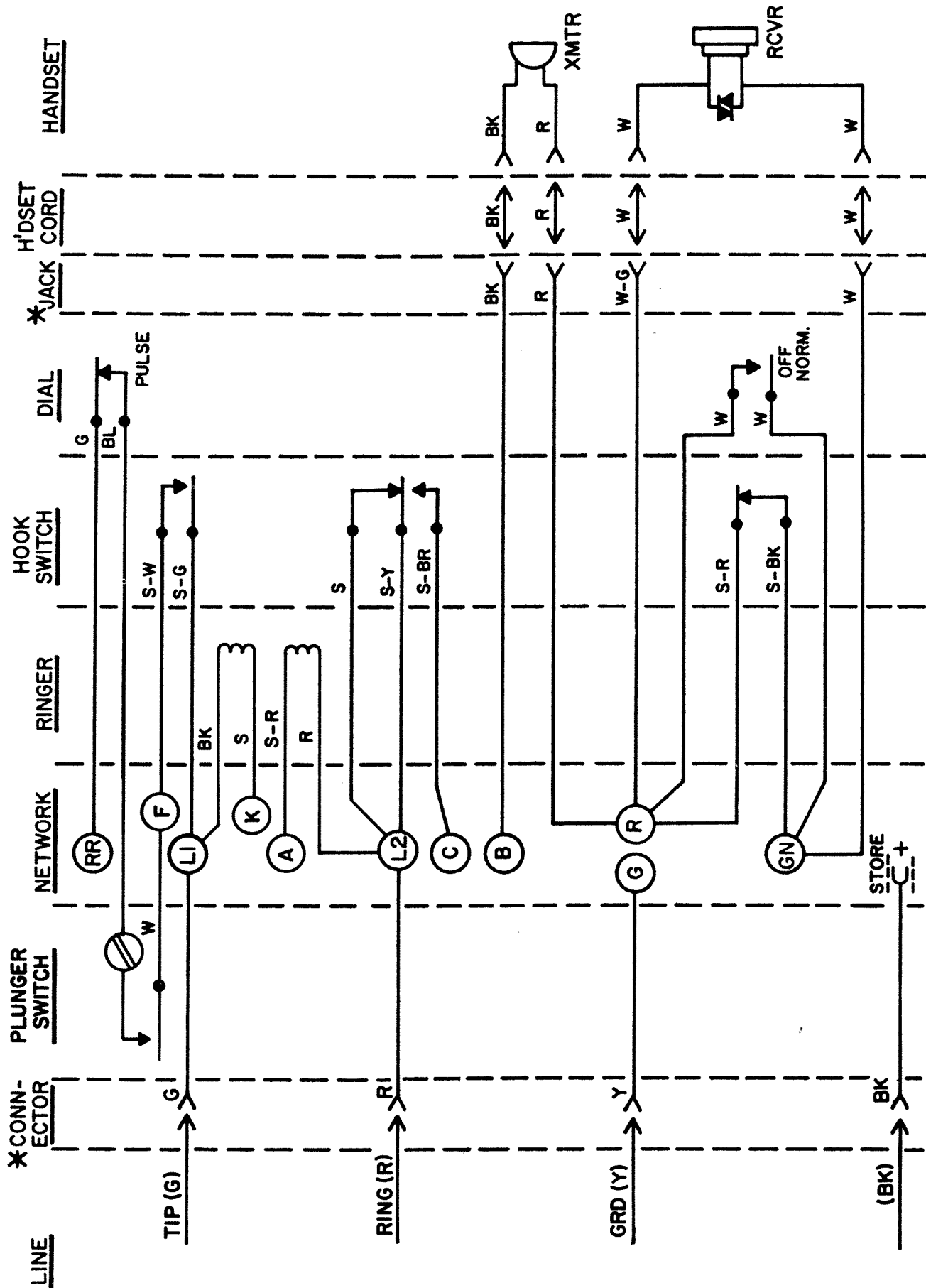


FIG. 3

720170-000 ISSUE 6  
SN 2 OF 2

COMDIAL



\* USED ONLY ON MODULAR SETS + NON MODULAR SETS CONNECT (BK) TO (G)

720210-000 ISSUE NO. 2

2500 F TELEPHONE WIRING DIAGRAM  
CONDIAL TELEPHONE SYSTEMS

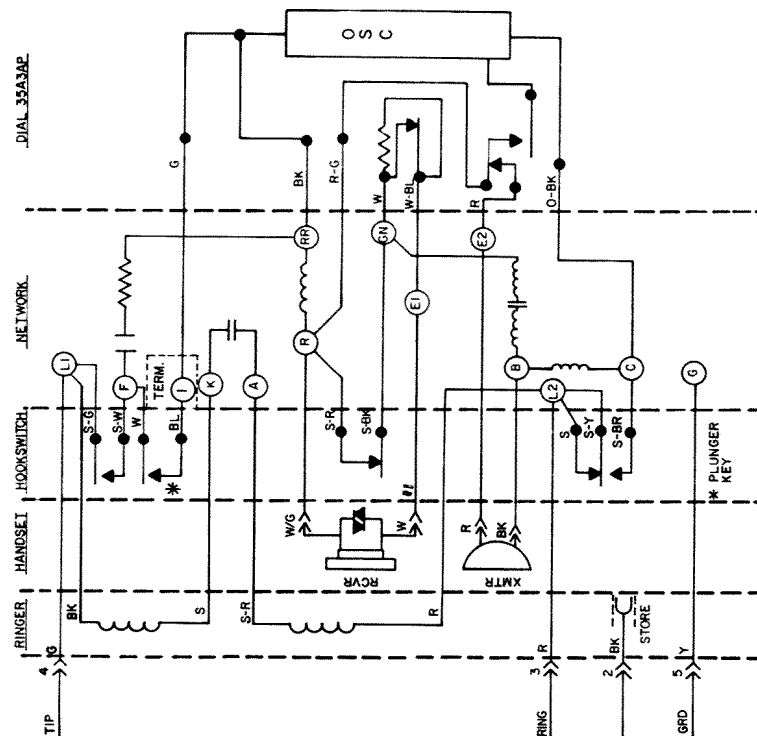


FIG. 1

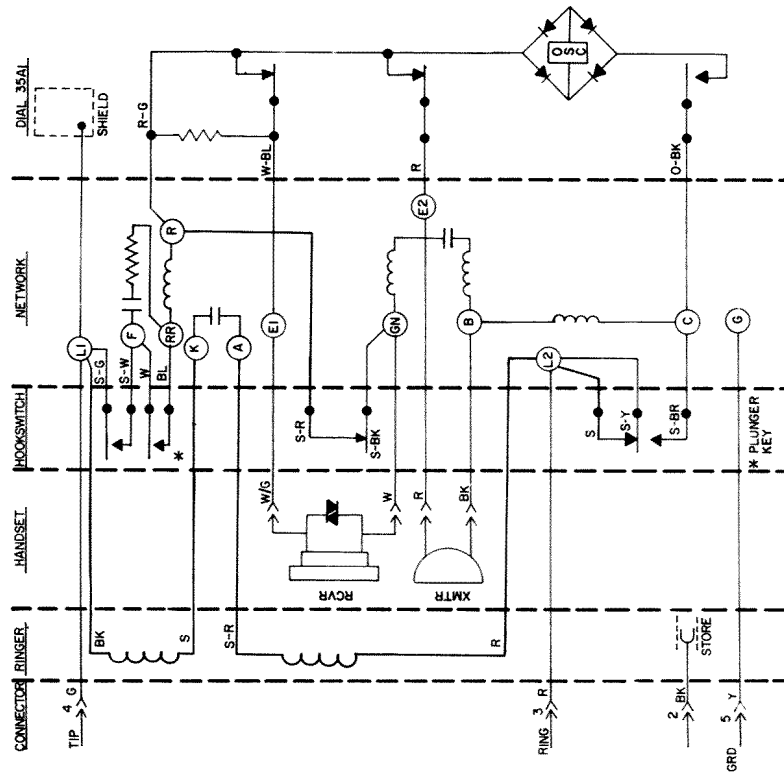


FIG. 2

720270-000 ISSUE: 4  
SHT 1 OF 2

# WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Cordial Telephone Systems Center or an experienced radio/television technician.

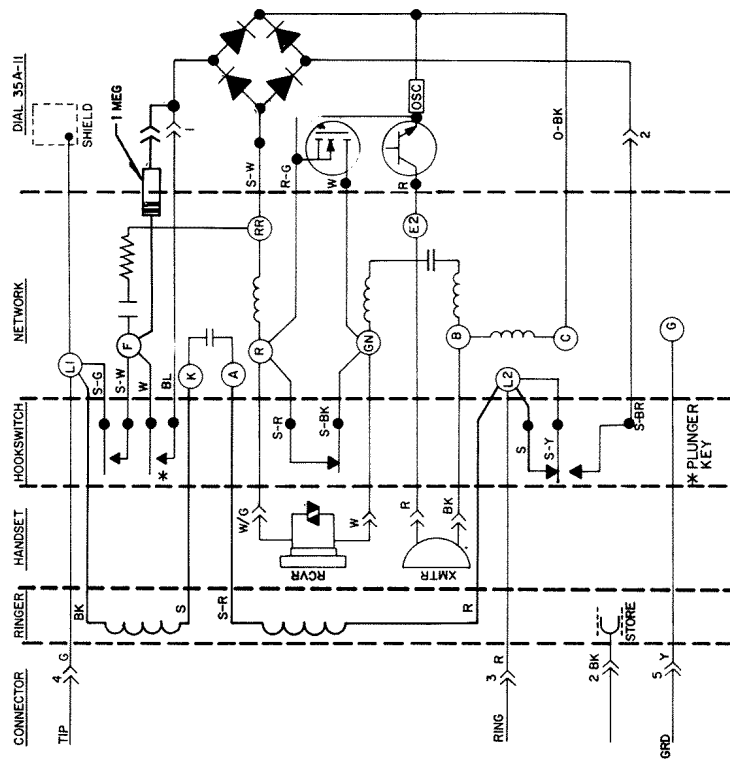
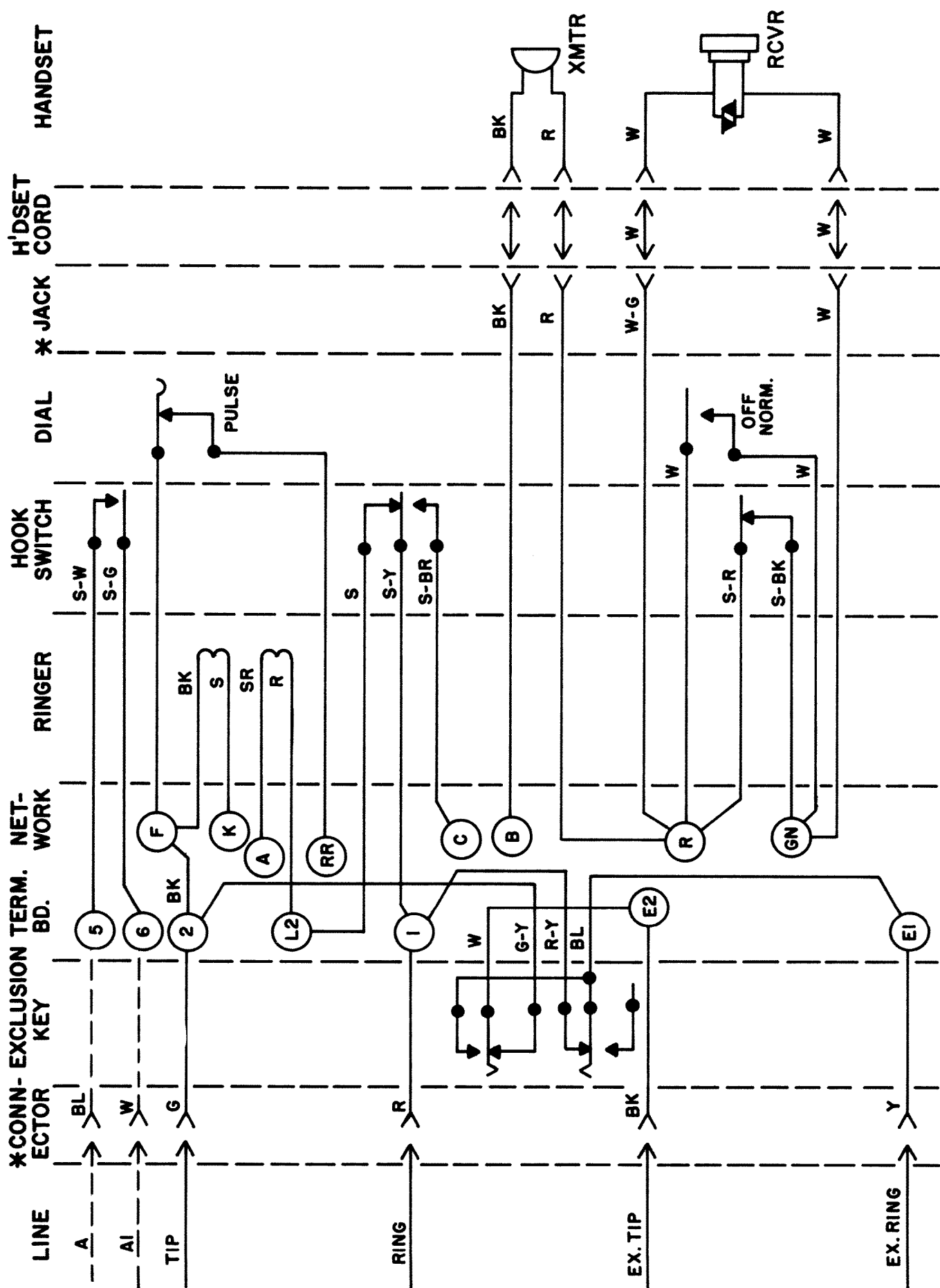


FIG. 3

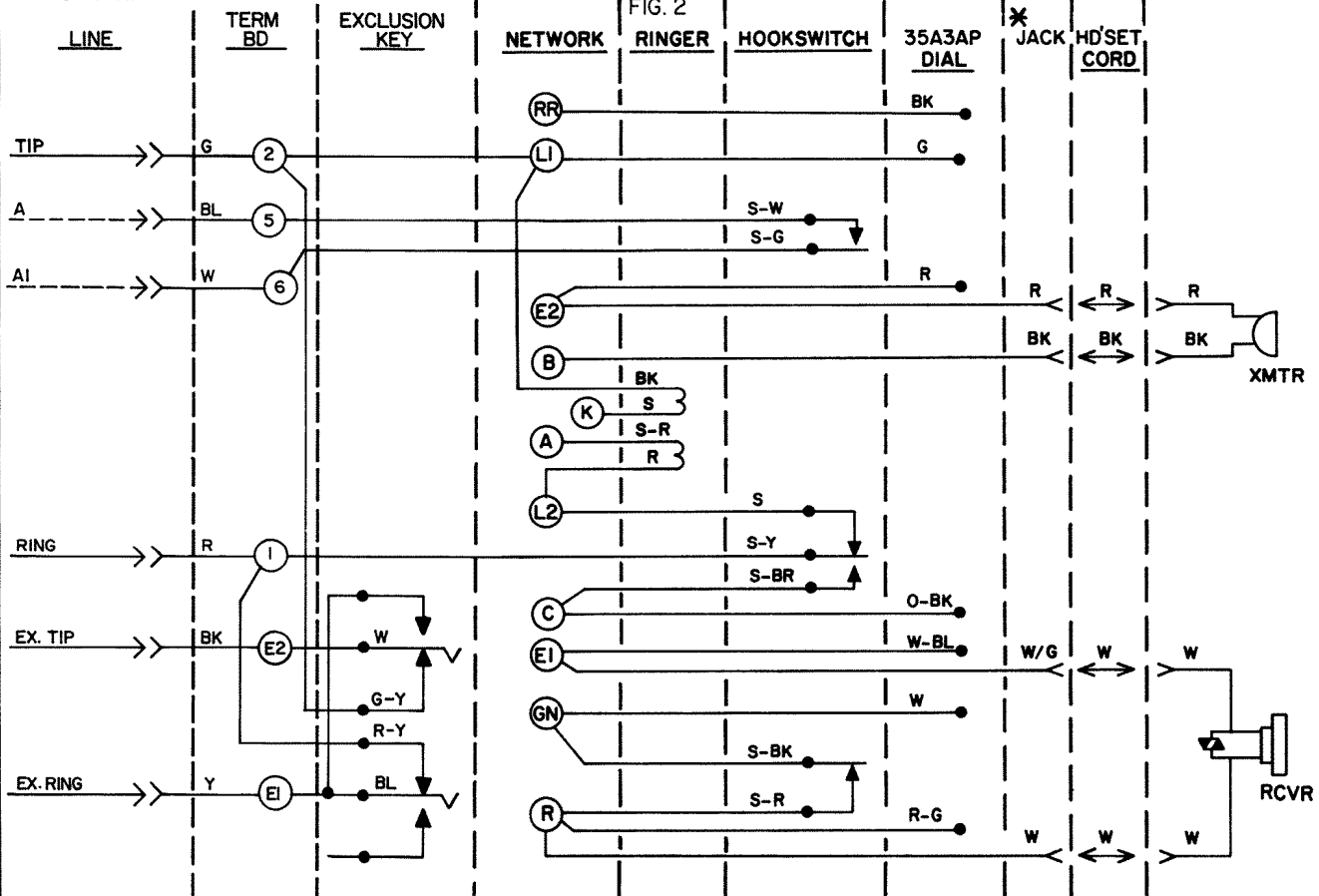
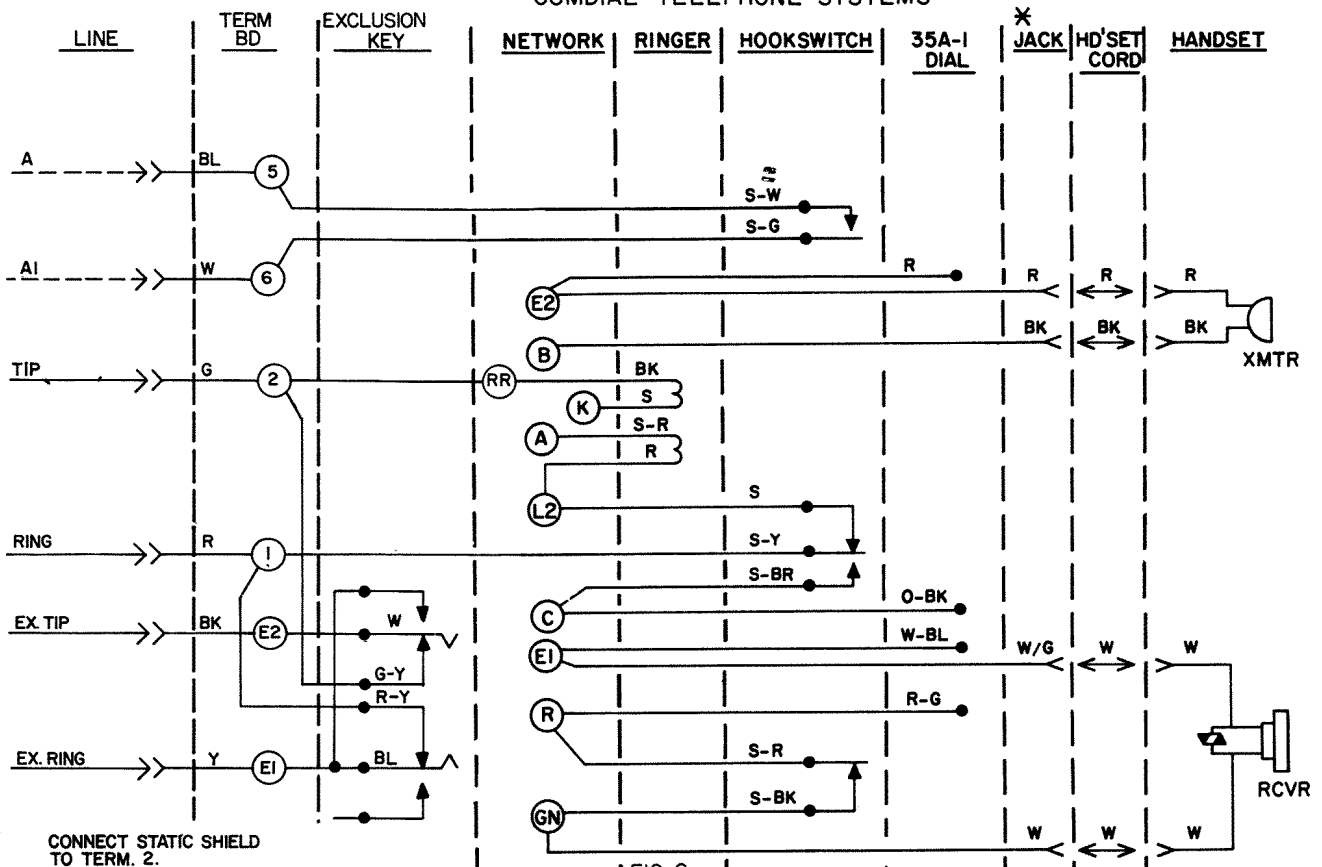
## 720310-000, Page 1



**\*USED ONLY ON MODULAR SETS**

720310-000 ISSUE NO.3

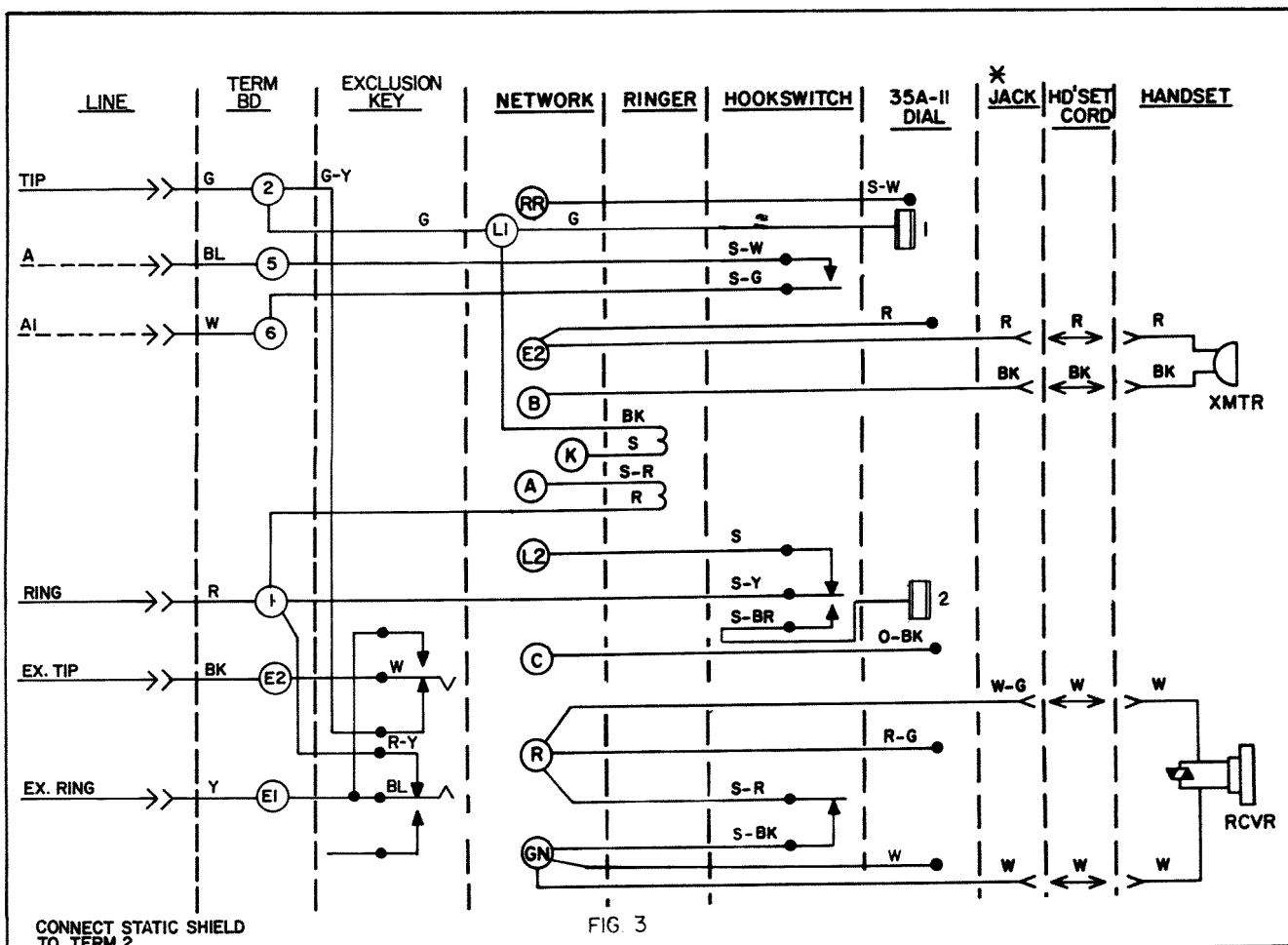
# 2502B TELEPHONE WIRING DIAGRAM COMDIAL TELEPHONE SYSTEMS



\* USED ONLY ON MODULAR SETS

FIG. 1

720370-000 ISSUE NO. 3  
SHT. 1 OF 2



#### WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

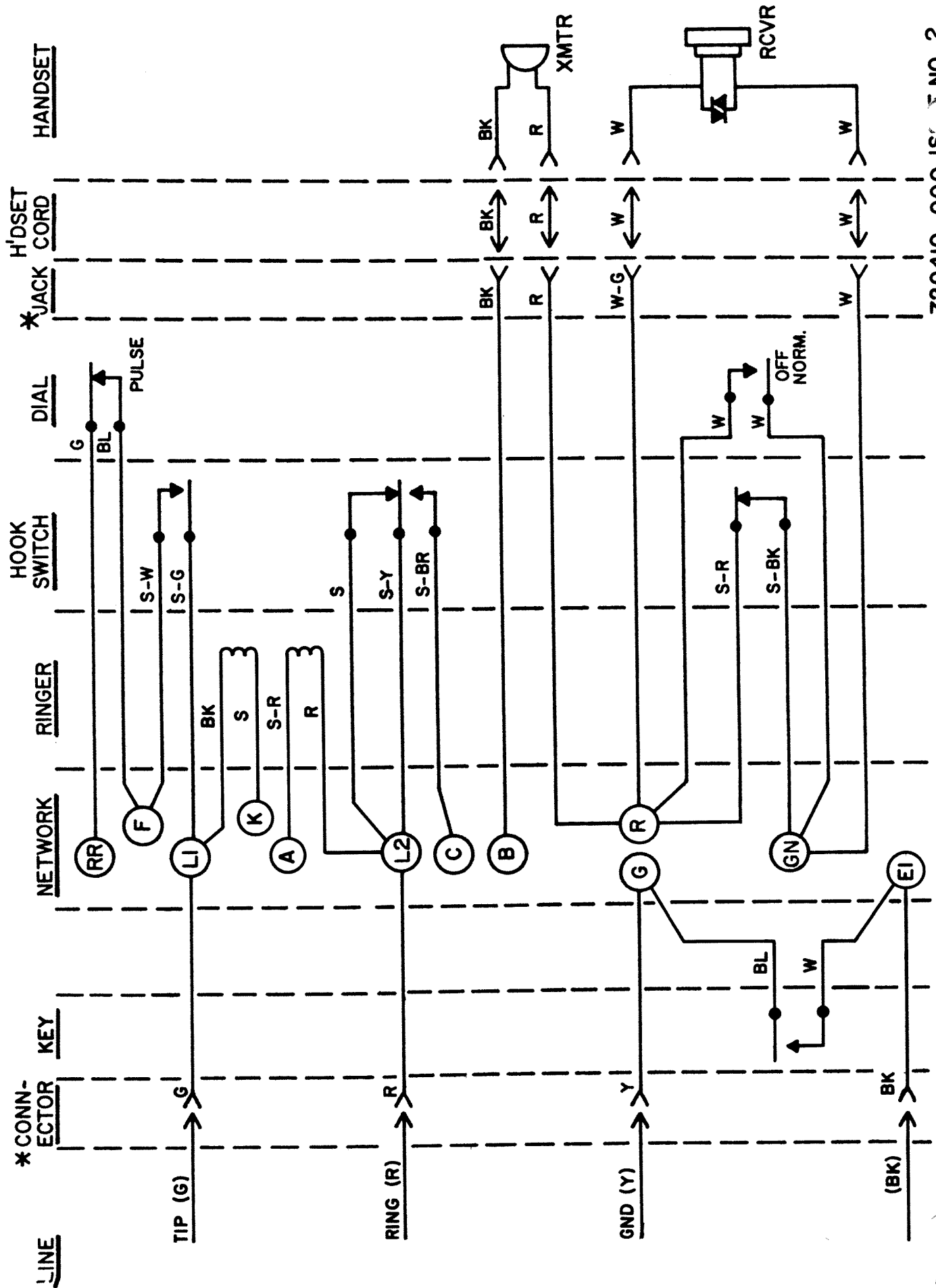
- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

720370-000 ISSUE: 3  
SHT. 2 OF 2

# 508B/551B TELEPHONE WIRING DIAGRAM

COMDIAL



\* USE ONLY ON MODULAR SETS

720410-000 IS NO. 2

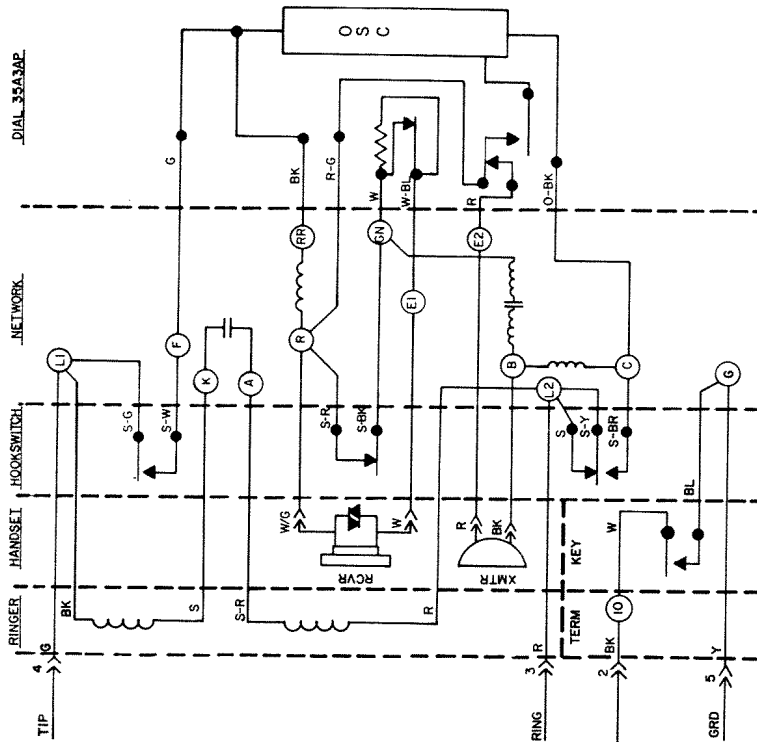


FIG. 1

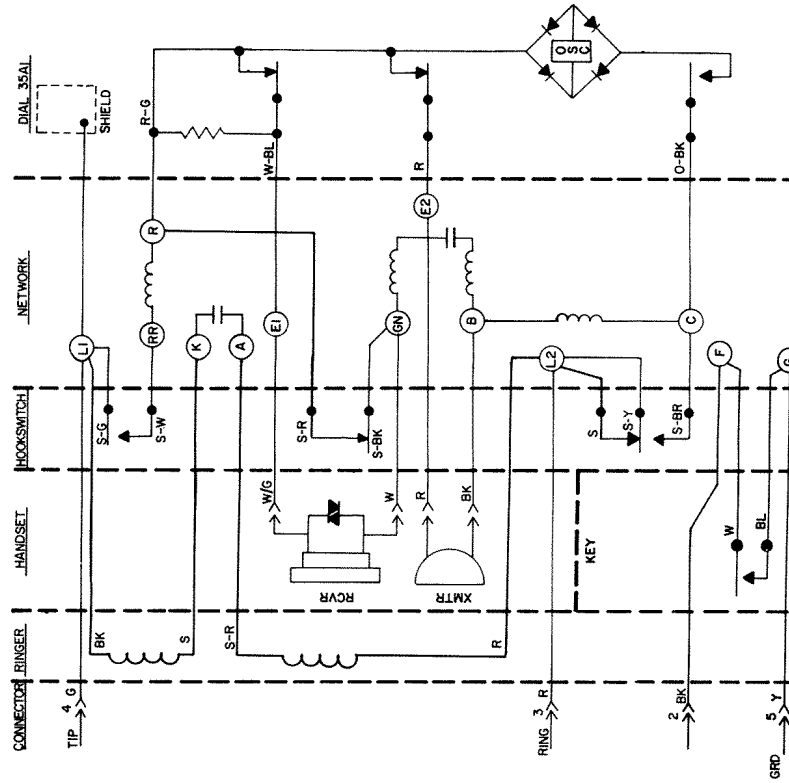


FIG. 2

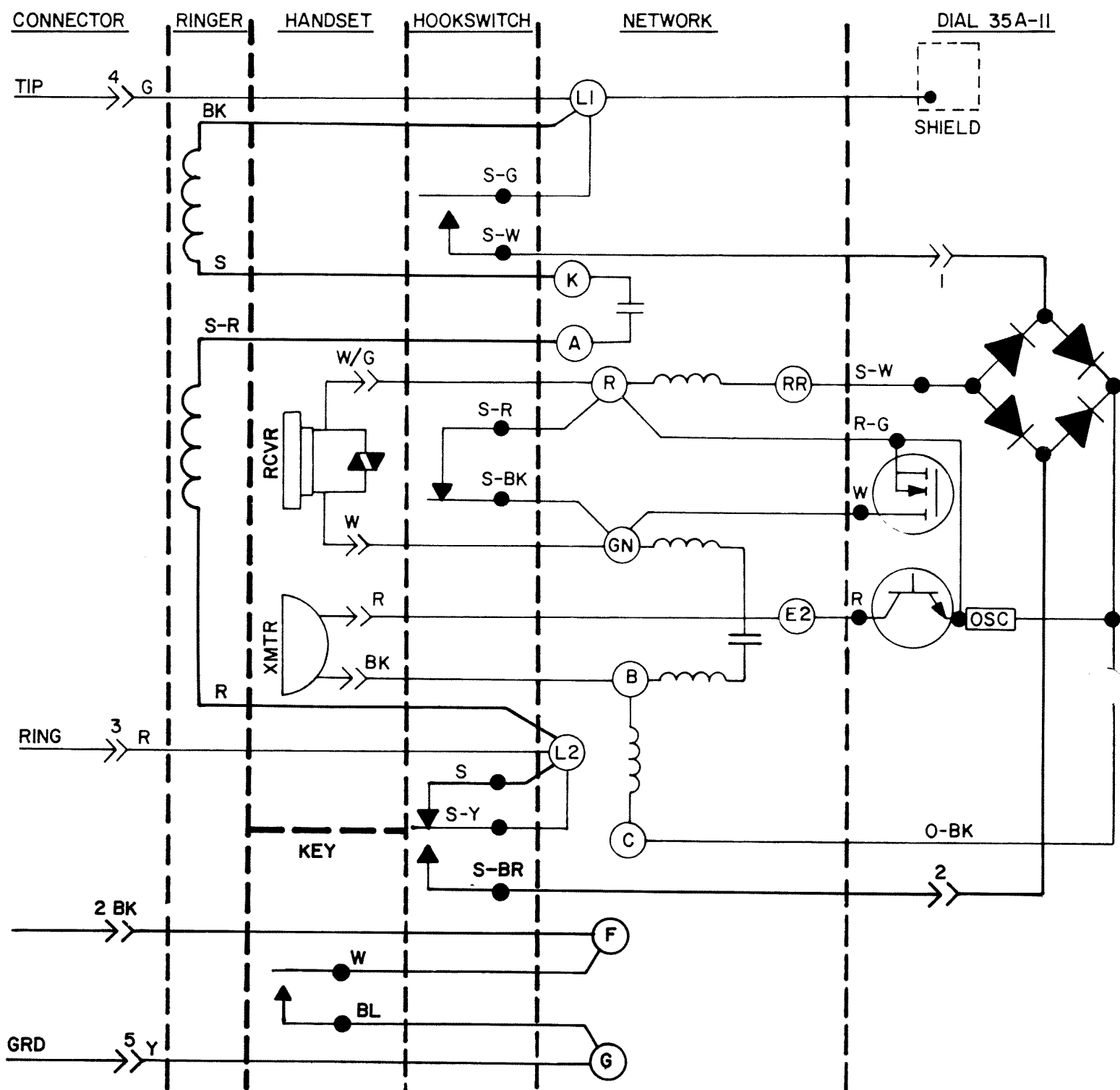
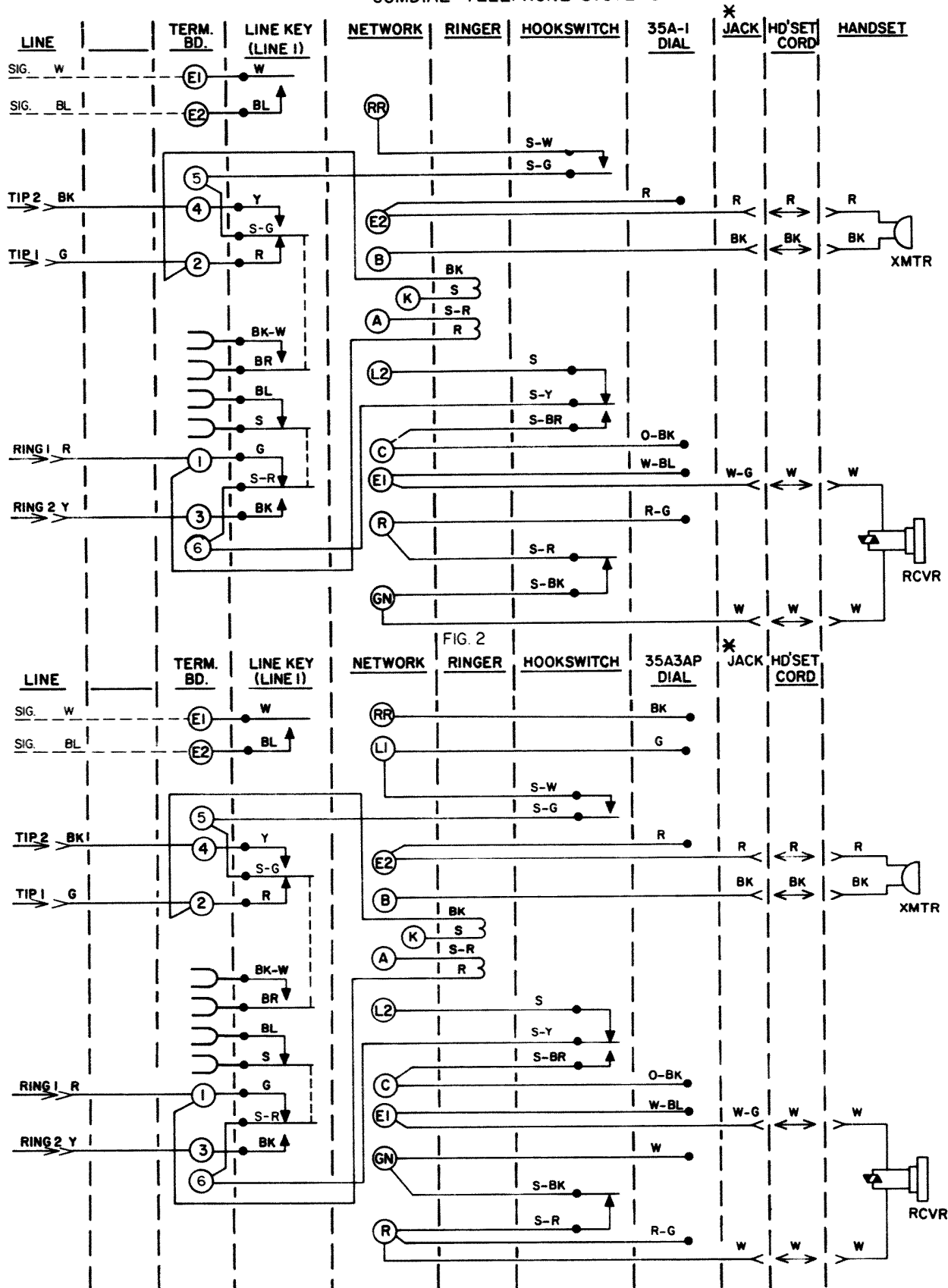


FIG. 3

720470-000 ISSUE NO. 3  
SHT 2 OF 2

# 2510F TELEPHONE WIRING DIAGRAM COMBIAL TELEPHONE SYSTEMS



\* USED ONLY ON MODULAR SETS

FIG. 1

720570-000 ISSUE NO. 5  
SHEET 1 OF 2

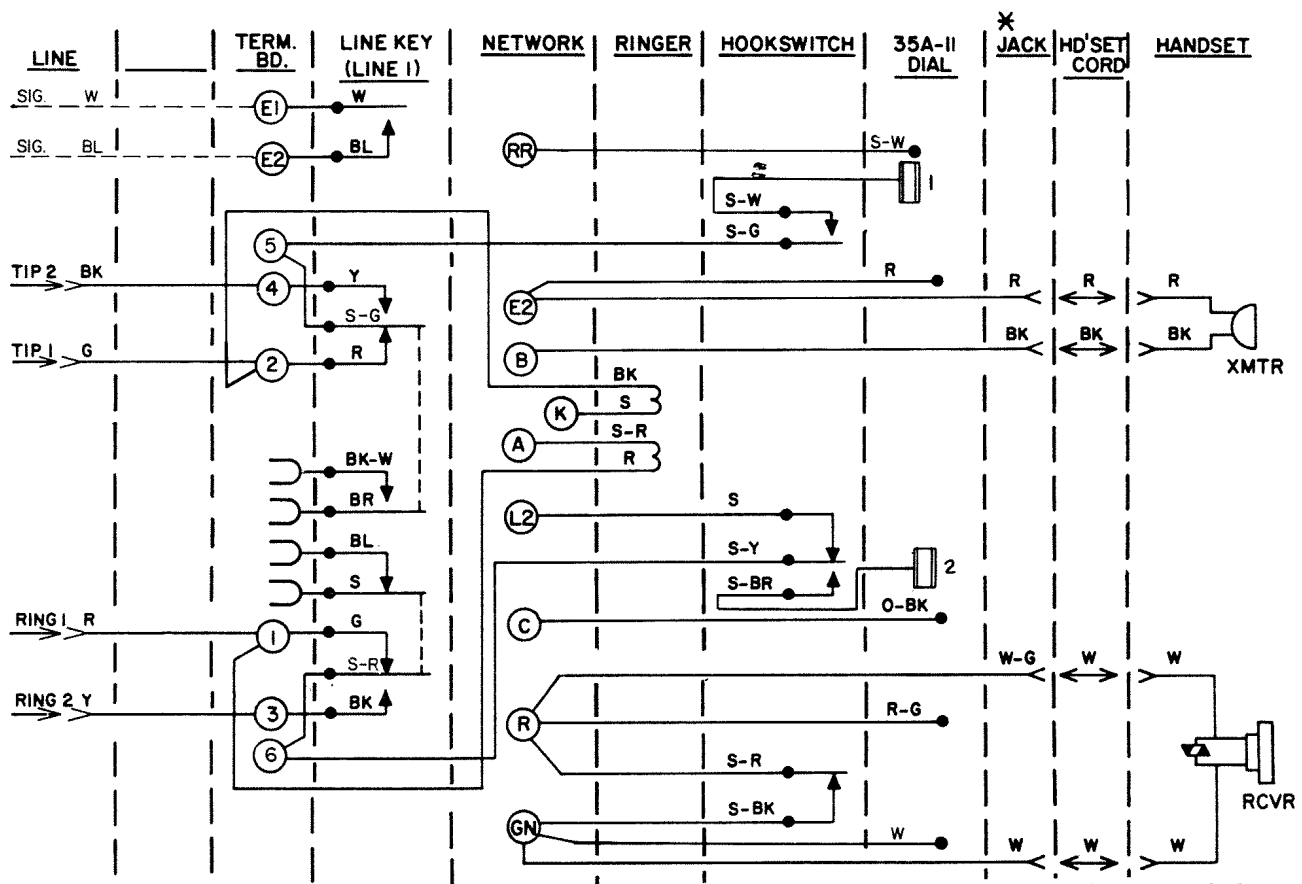
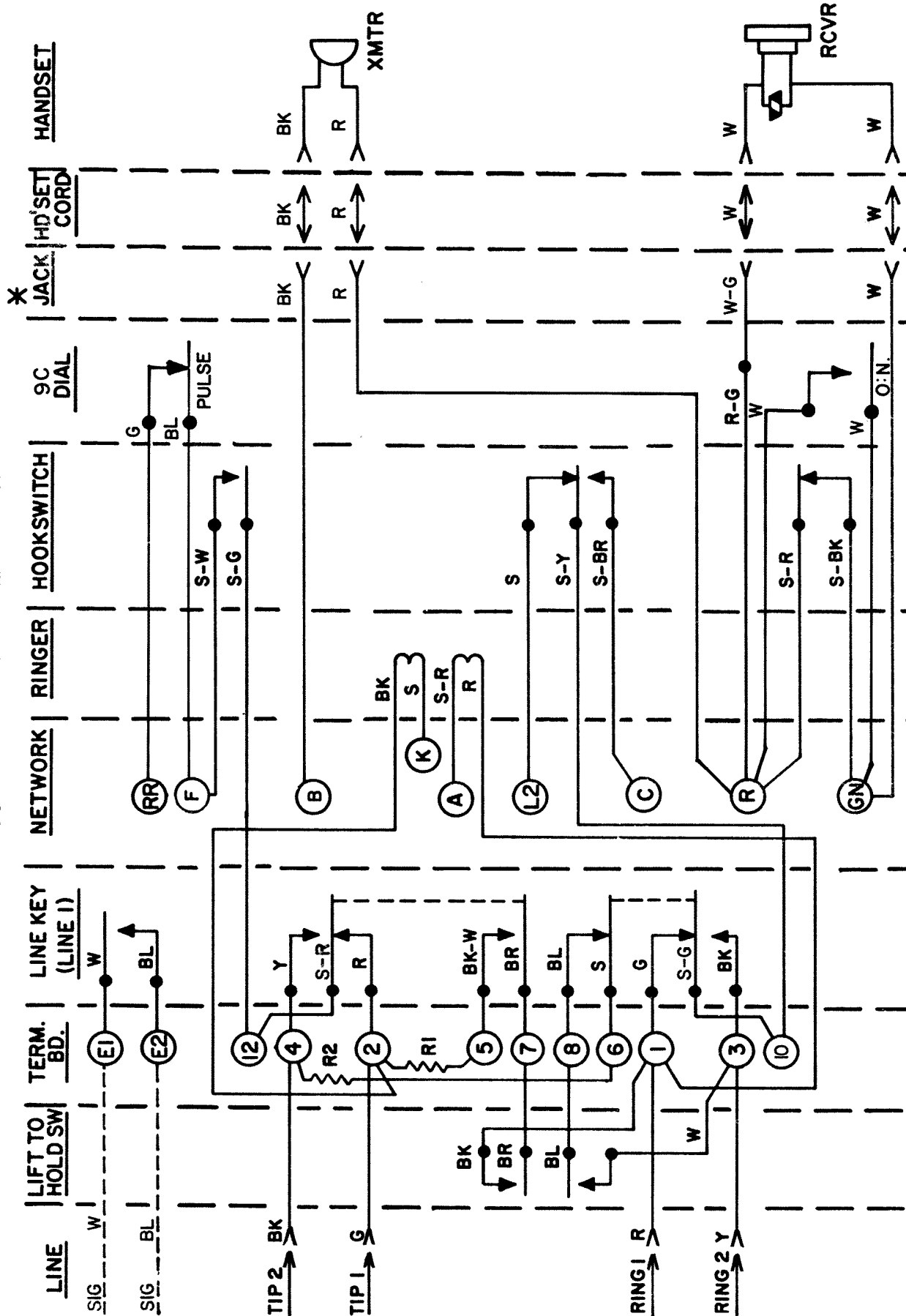


FIG. 3

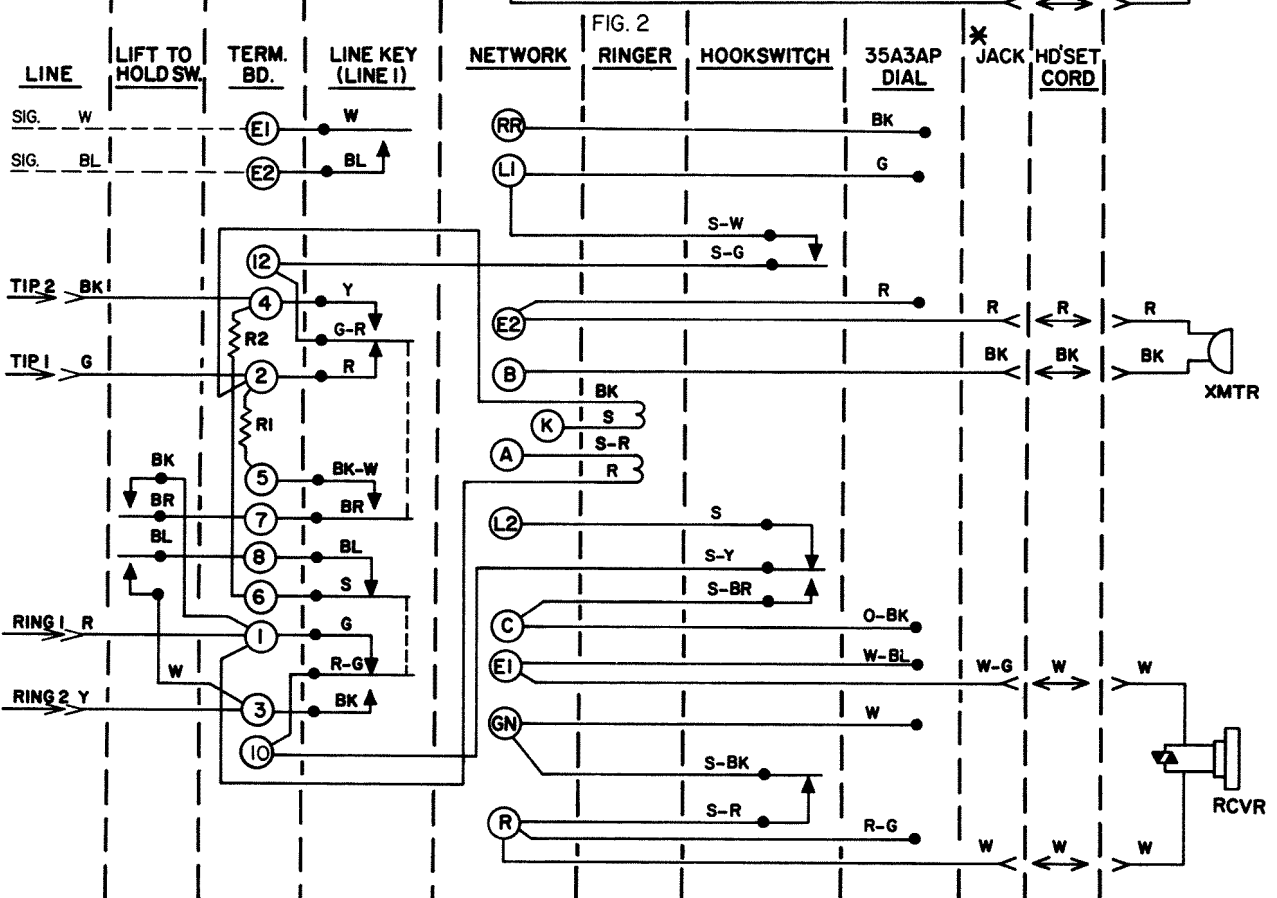
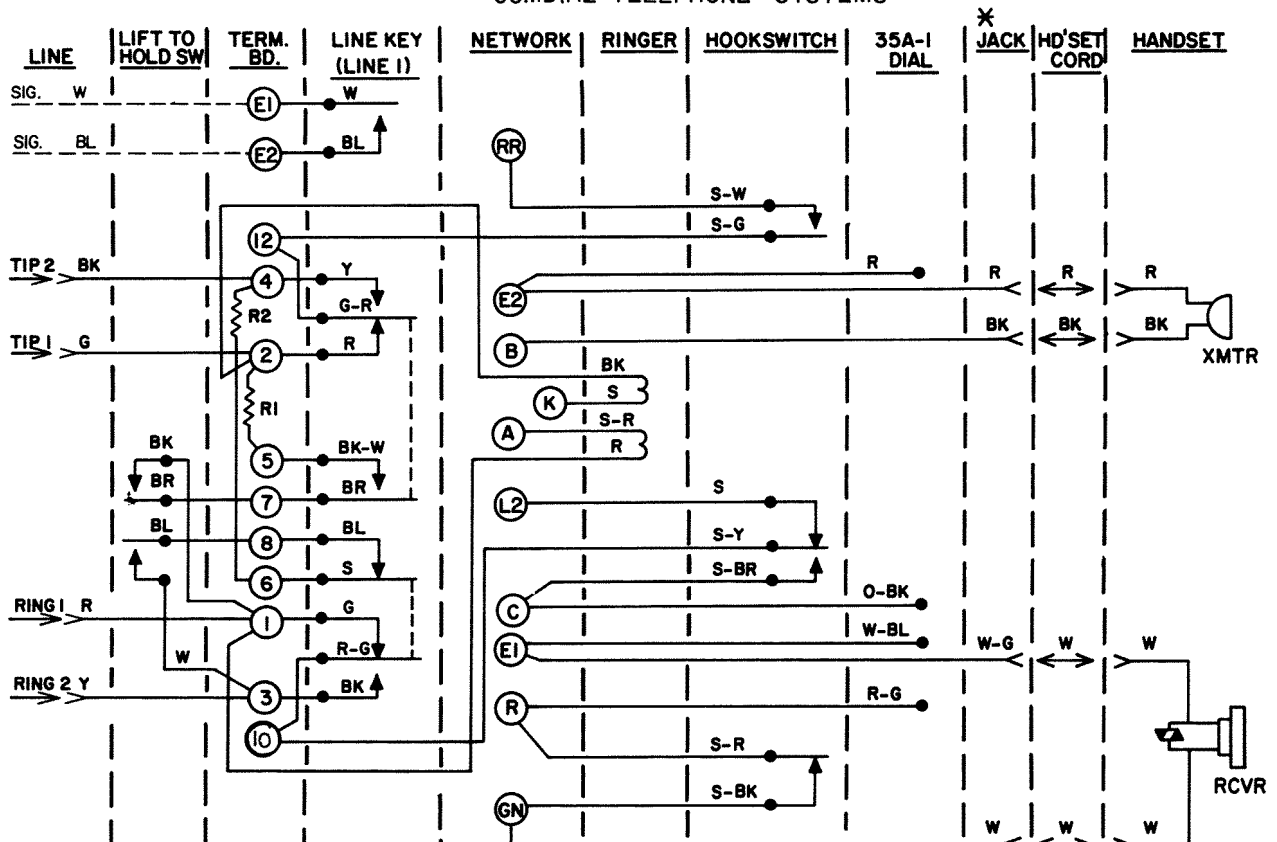
720570-000 ISSUE NO. 5  
SHEET 2 OF 2

# 575B/550 TELEPHONE COMDIAL TELEPHONE SYSTEMS



720610-000 ISSUE 3

**2575BP TELEPHONE WIRING DIAGRAM**  
COMDIAL TELEPHONE SYSTEMS



✱ USED ONLY ON MODULAR SETS

FIG. 1

720670-000 ISSUE NO. 5  
SHT. 1 OF 2

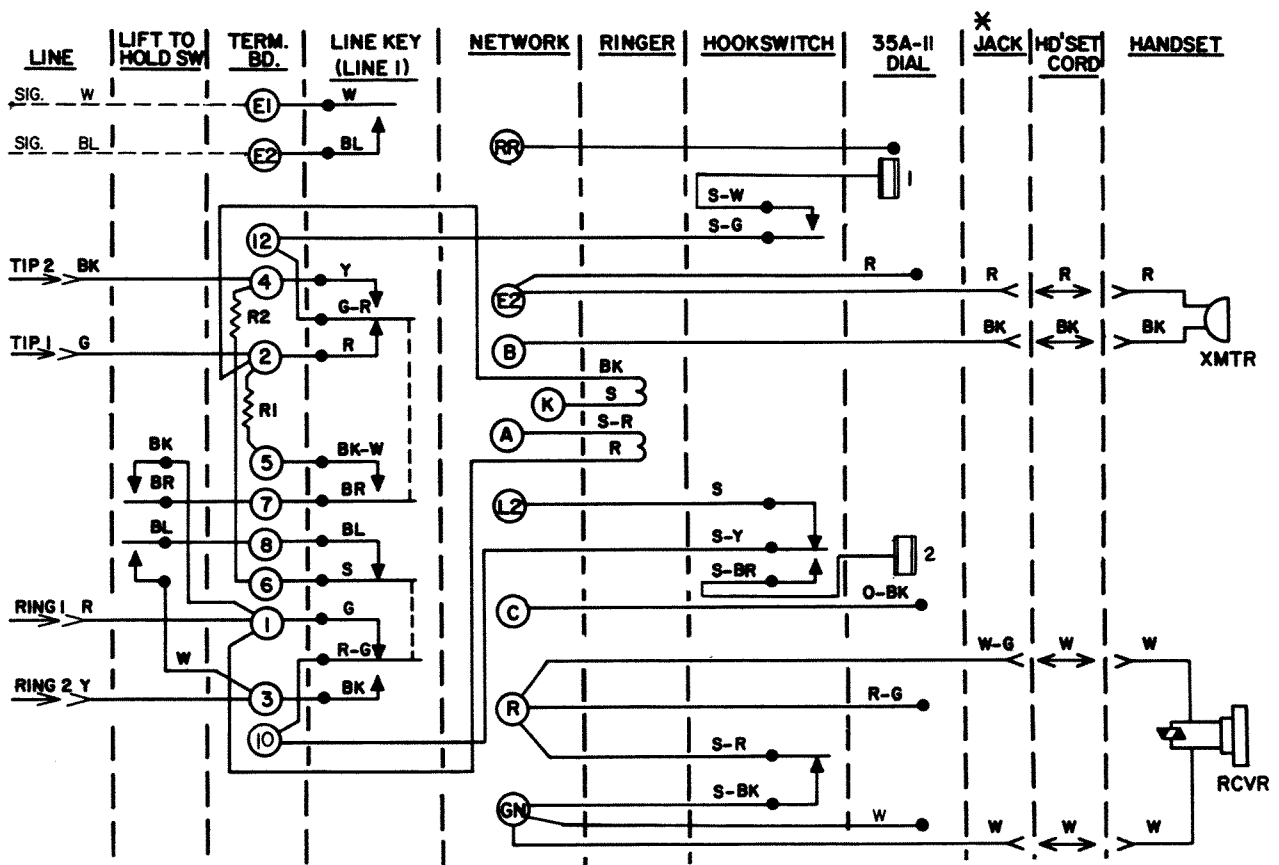
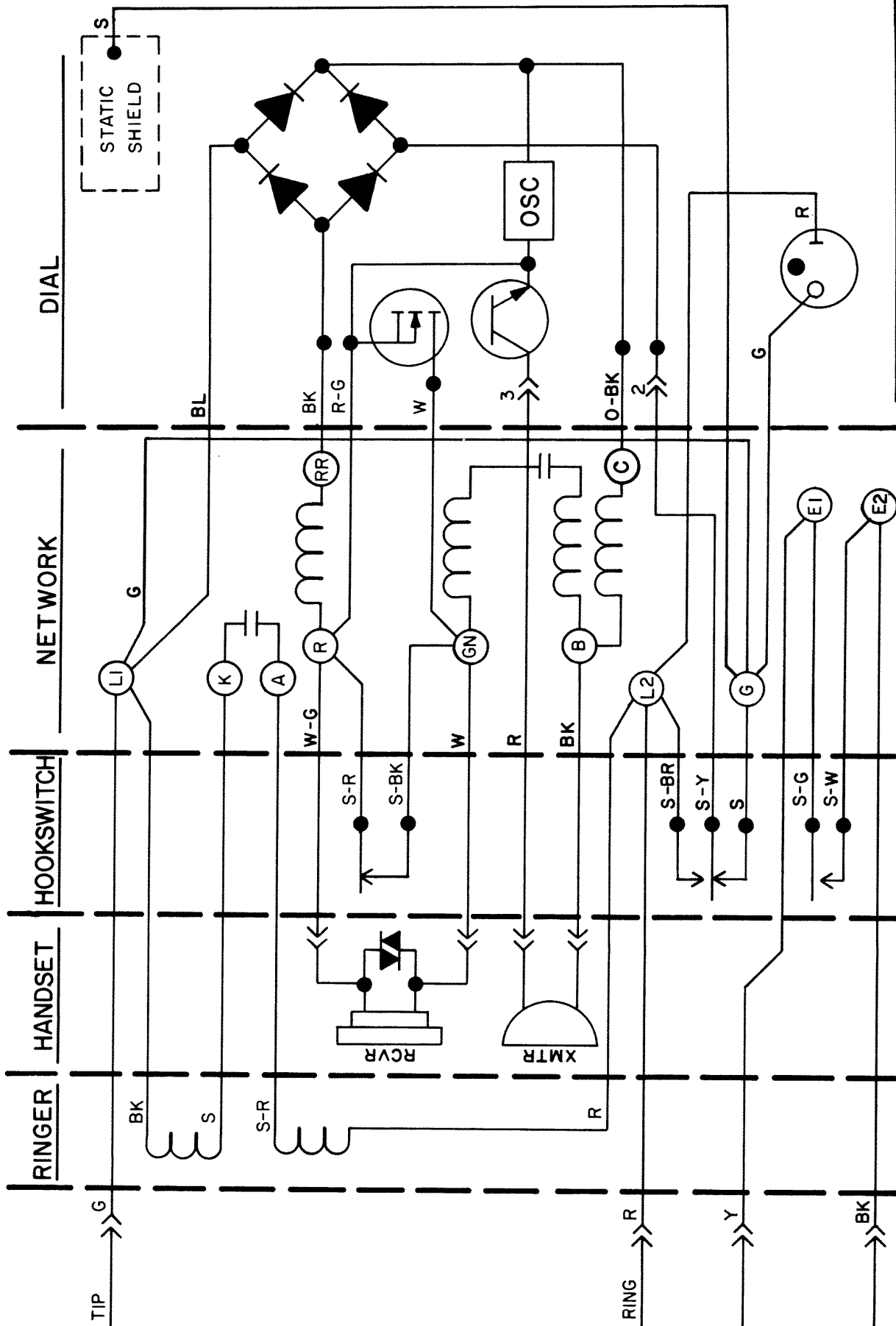


FIG. 3

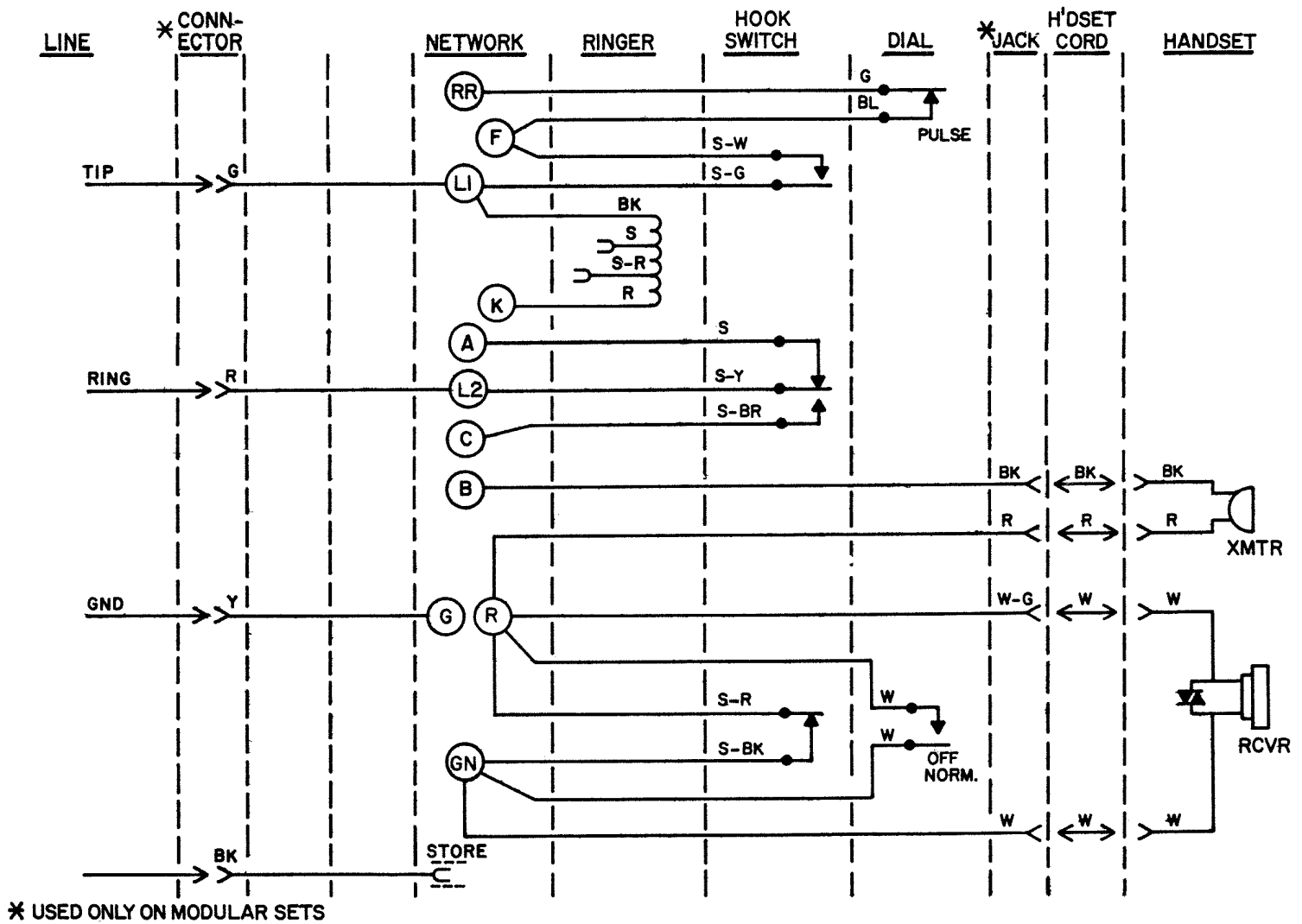
720670-000 ISSUE NO. 5  
SHT. 2 OF 2

## 2500 YI TELEPHONE WIRING DIAGRAM

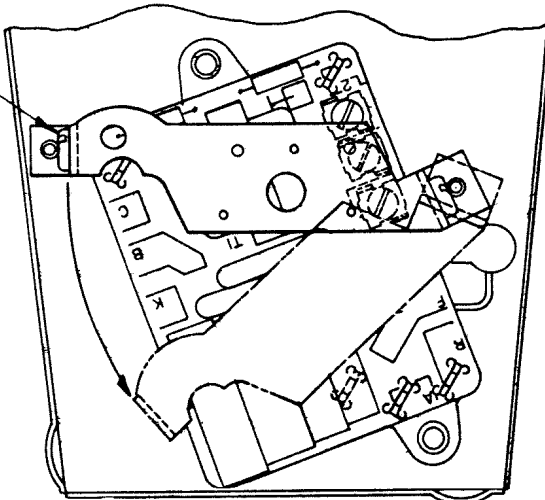


720800-000 ISS. NO. 5

# **I654B TELEPHONE WIRING DIAGRAM** COMDIAL TELEPHONE SYSTEM



For access to screw terminals G, L1 & L2, loosen 6-32 screw and rotate housing mounting bracket as shown.



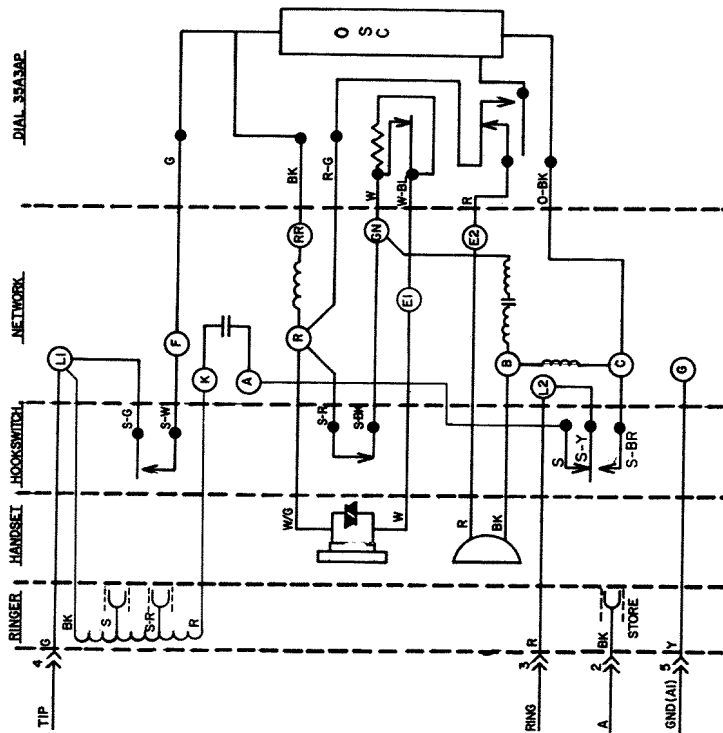


FIG. 1

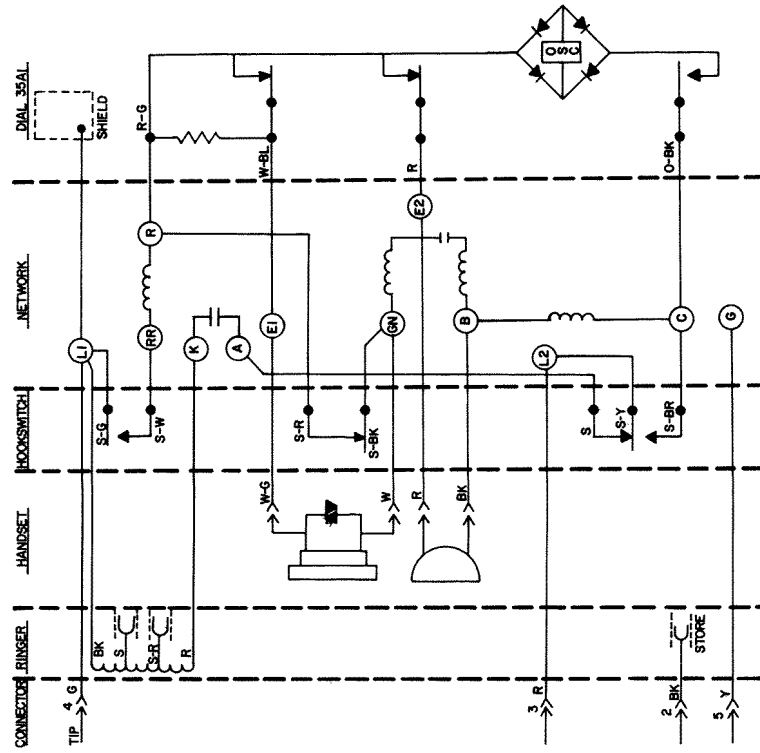


FIG. 2

# WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

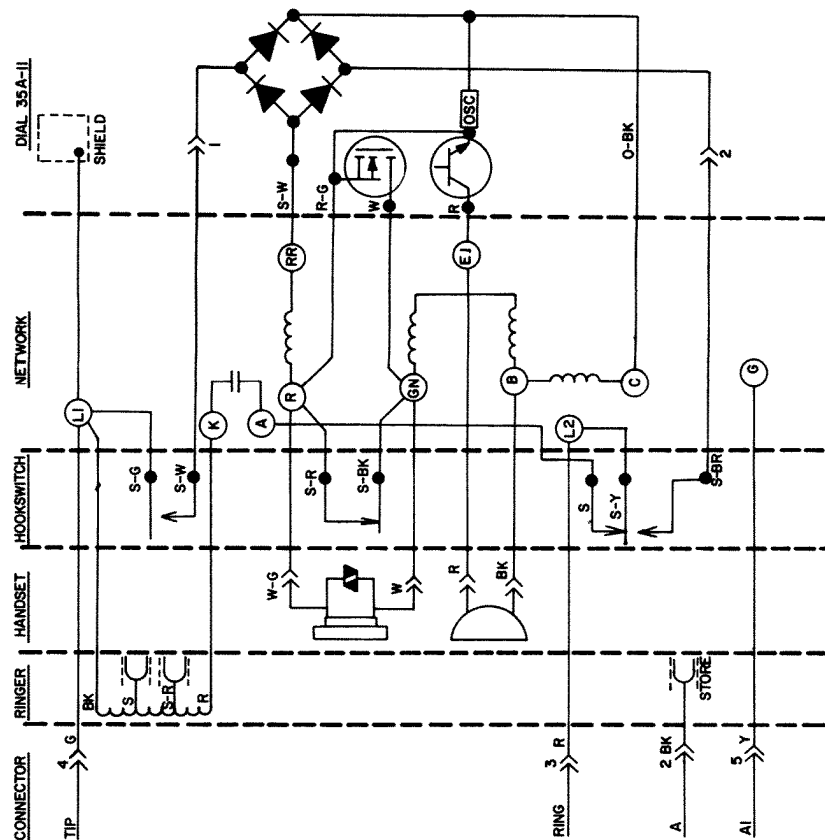
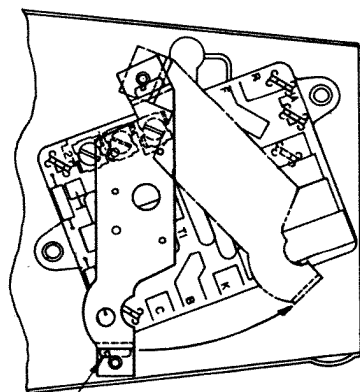
This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate the receiver or the telephone
- use a different branch power circuit for the receiver

For further assistance, contact Comdial or an experienced radio/television technician.

For access to screw terminals G, Ll & L2, loosen 6-32 screw and rotate housing mounting bracket as shown.

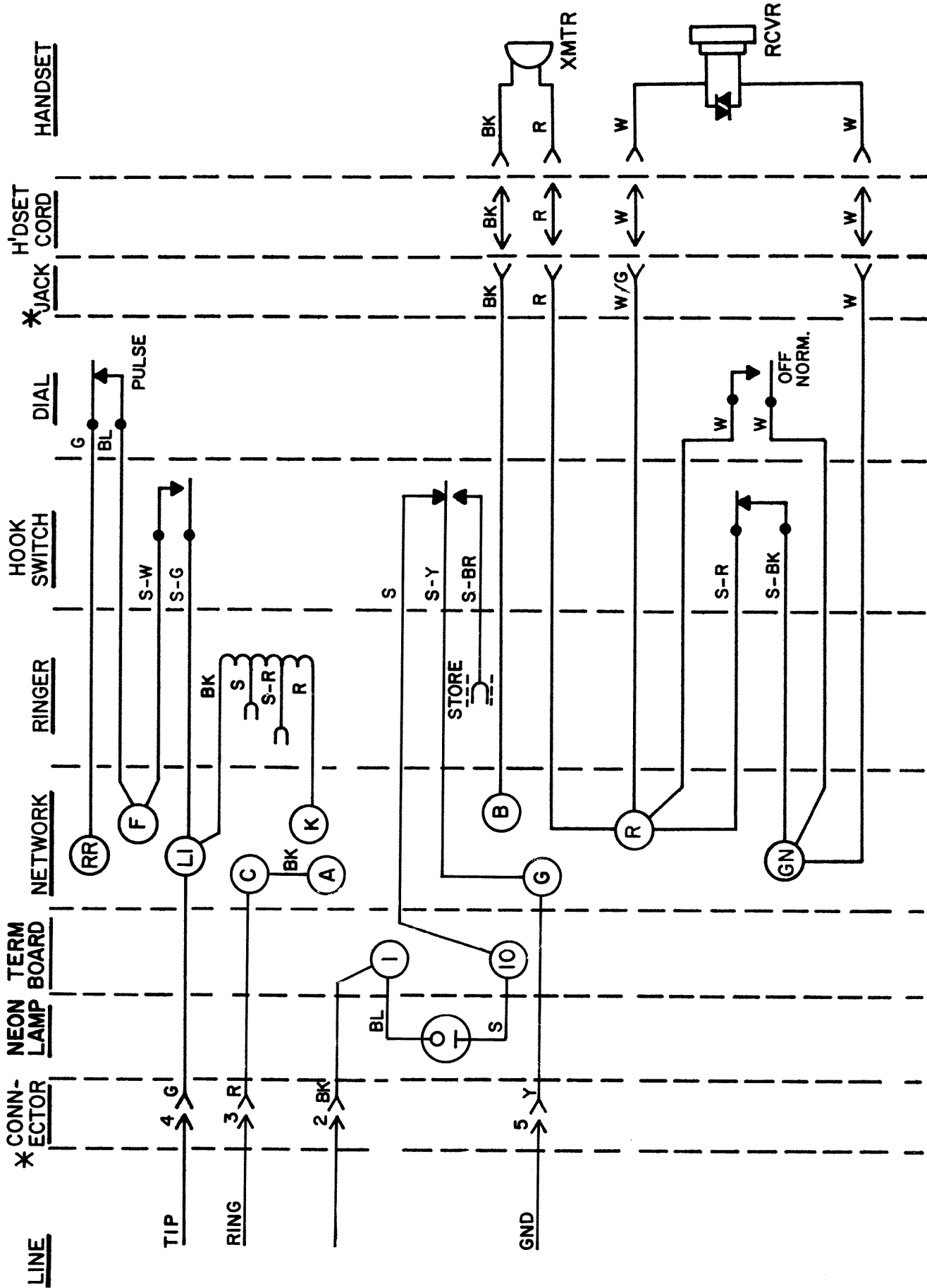


"FOR A LEAD CONTROL: MOVE S-BR HOOKSWITCH LEAD TO G. MOVE MOVE RED LINE LEAD TO #2 ON DIAL. MOVE BK LINE LEAD AND SLATE HOOKSWITCH LEAD TO L2. NOTE: IF RINGER IS REQUIRED, PROVIDE STRAP BETWEEN A ON NETWORK AND #2 ON DIAL."

FIG. 3

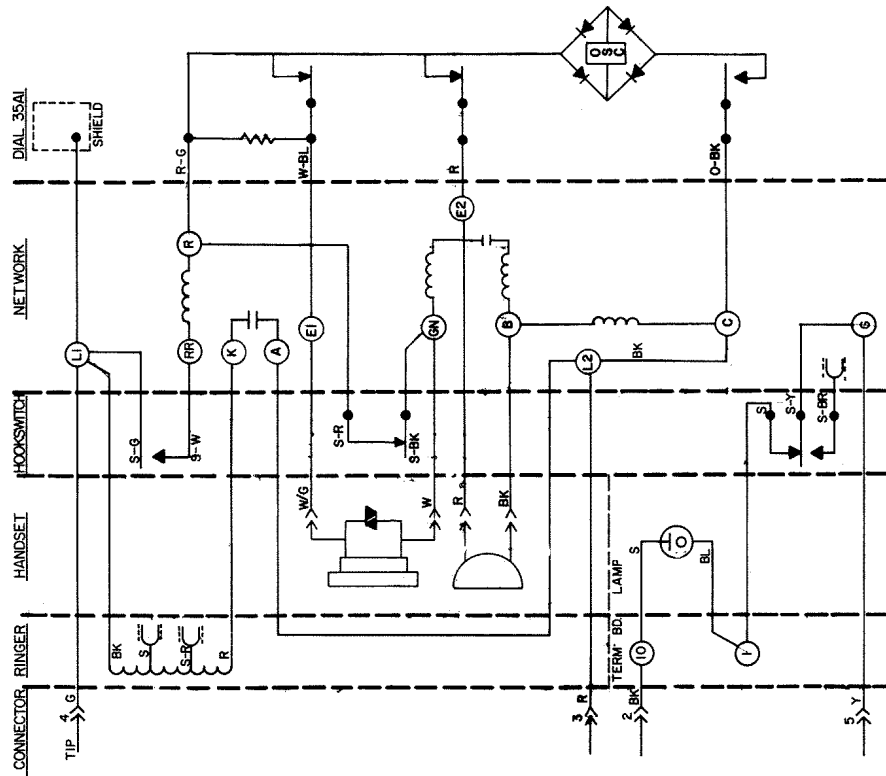
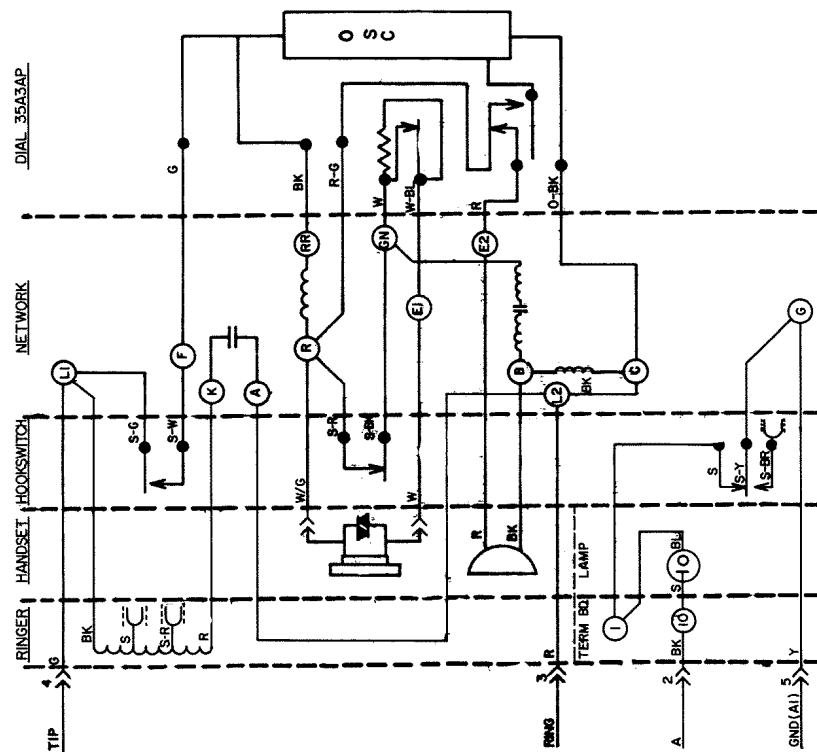
722070-000, ISSUE NO. 8  
SHEET 2 OF 2

# **I654Y TELEPHONE WIRING DIAGRAM** **COMBIAL TELEPHONE SYSTEM**



722110-000 ISSUE NO. 3

2554 Y TELEPHONE WIRING DIAGRAM  
CONDIAL TELEPHONE SYSTEM



# WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

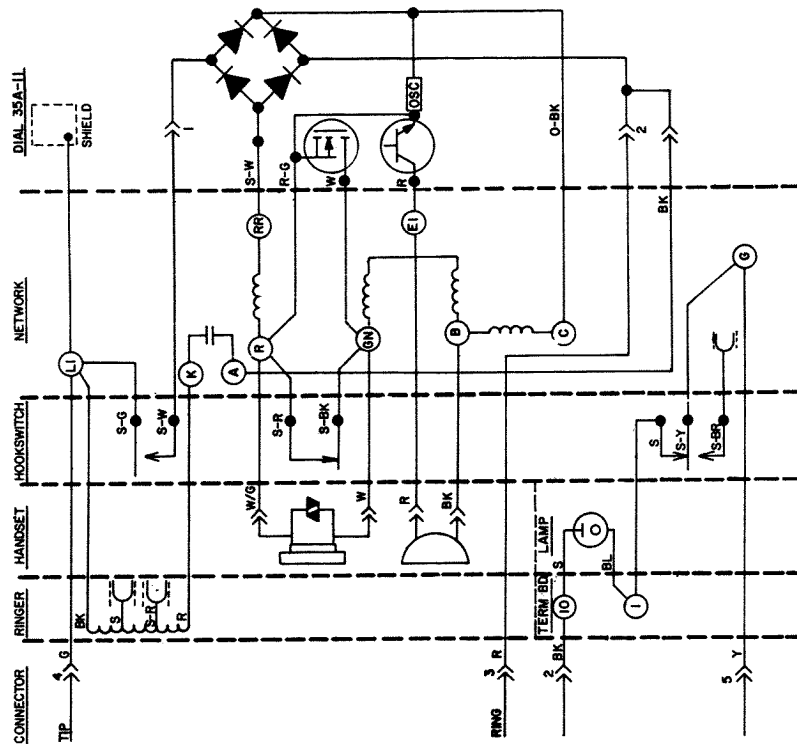
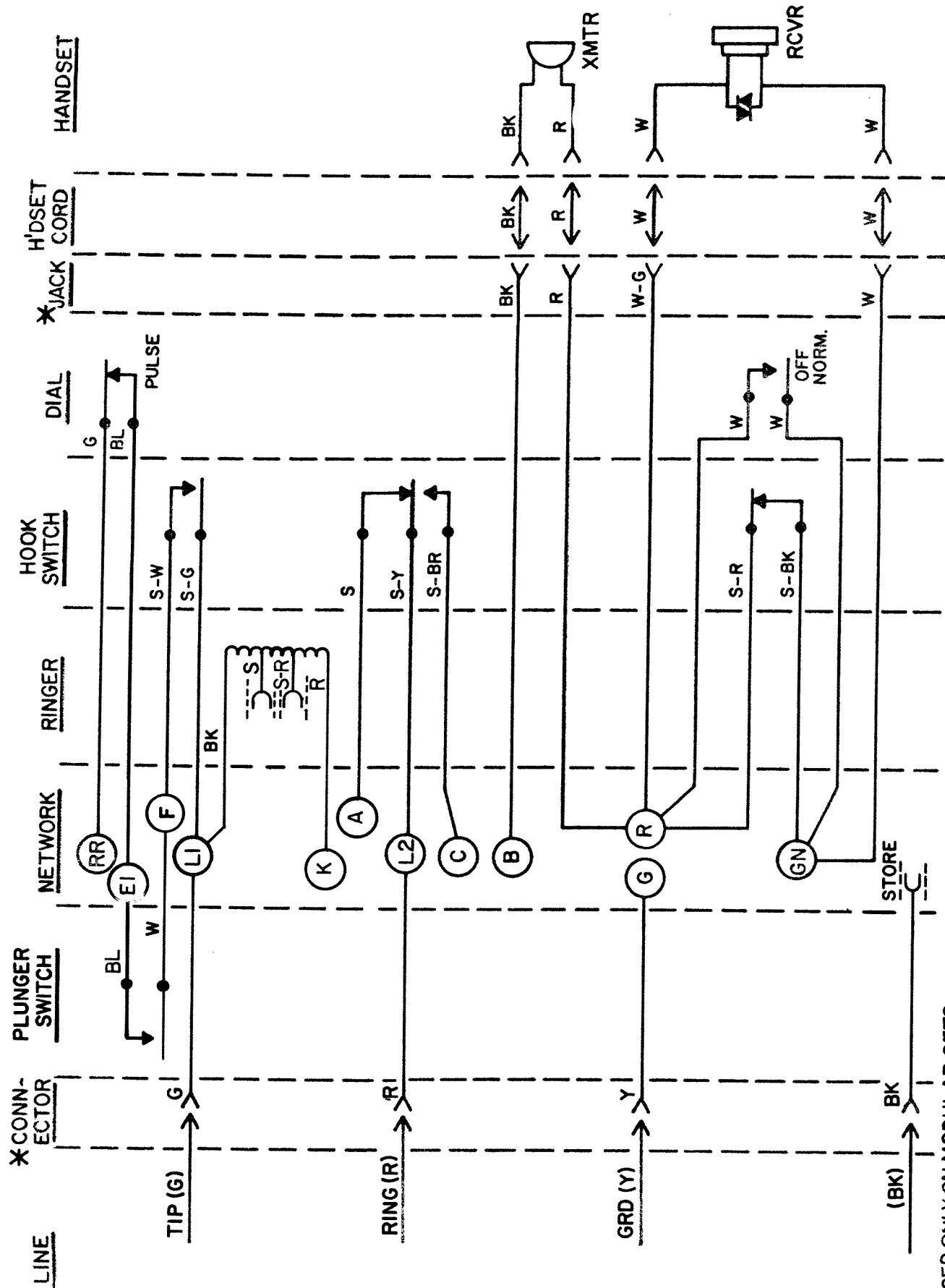


FIG. 3

722170-000 ISSUE 6  
SHV 2 OF 2

# 1654F TELEPHONE WIRING DIAGRAM

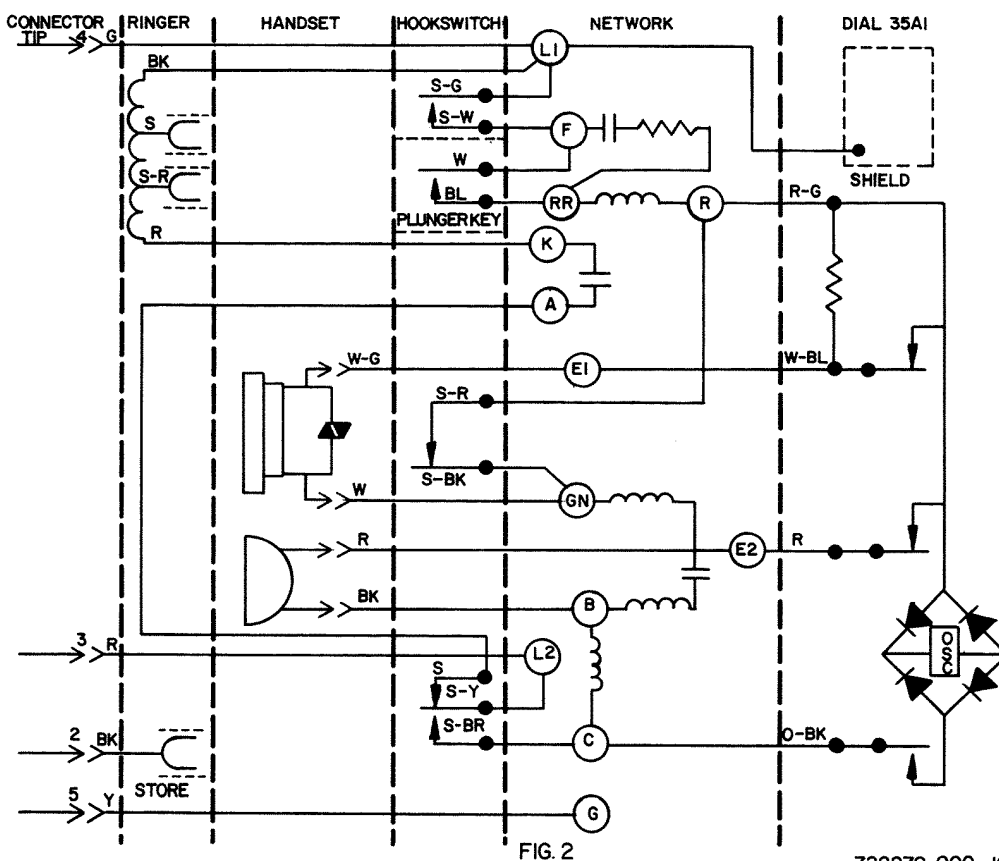
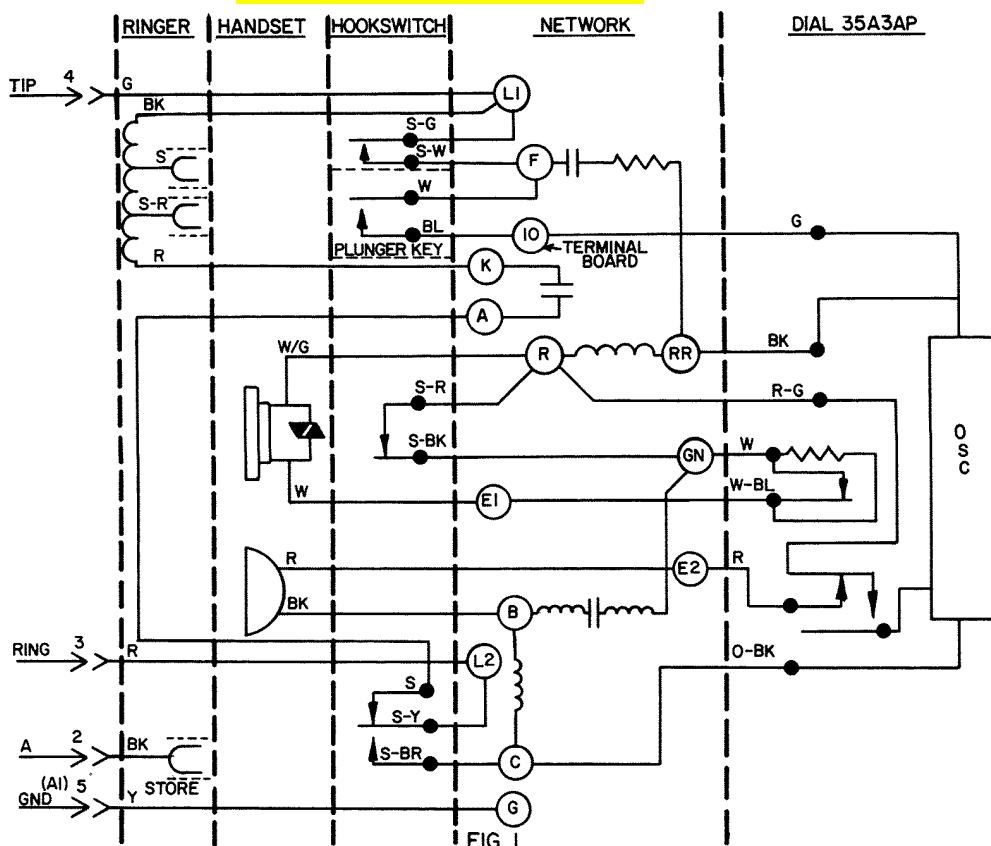


722210-000

ISSUE NO.2

\* USED ONLY ON MODULAR SETS

# 2554F TELEPHONE WIRING DIAGRAM



722270-000 ISSUE NO. 7  
SHT. 1 OF 2

# 2554FP TELEPHONE WIRING DIAGRAM

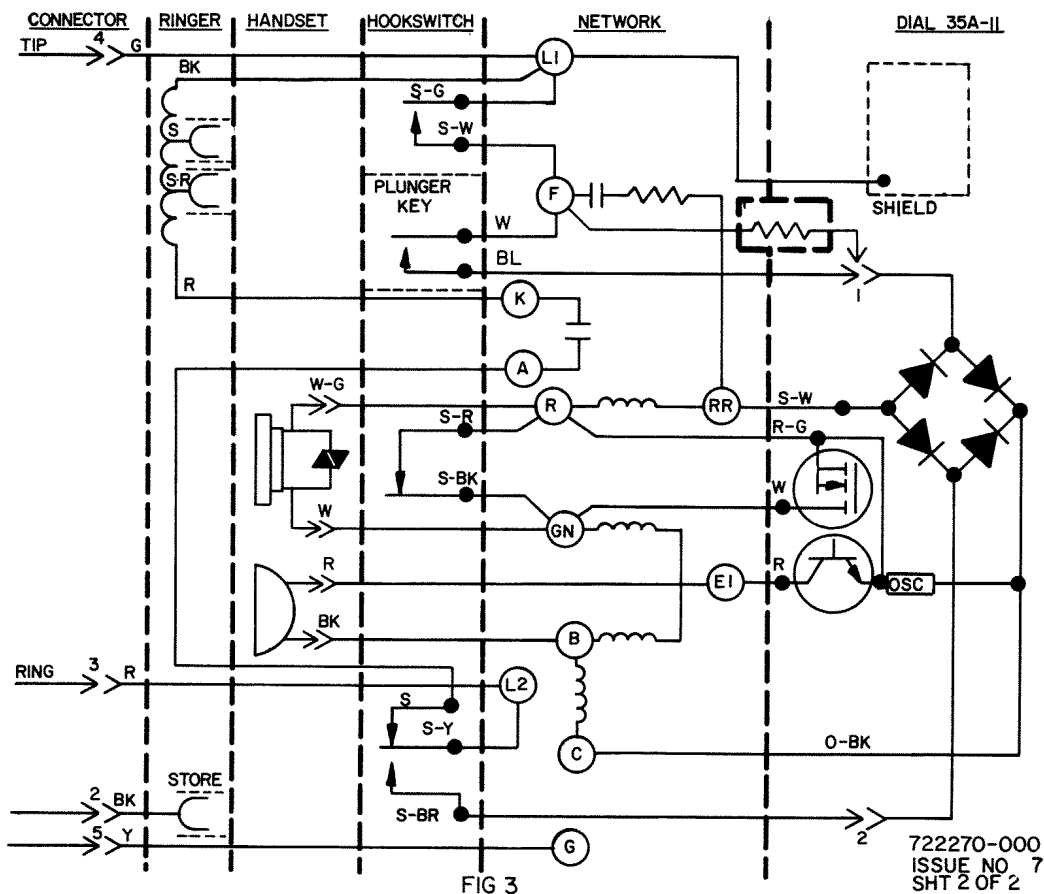


FIG 3

## WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

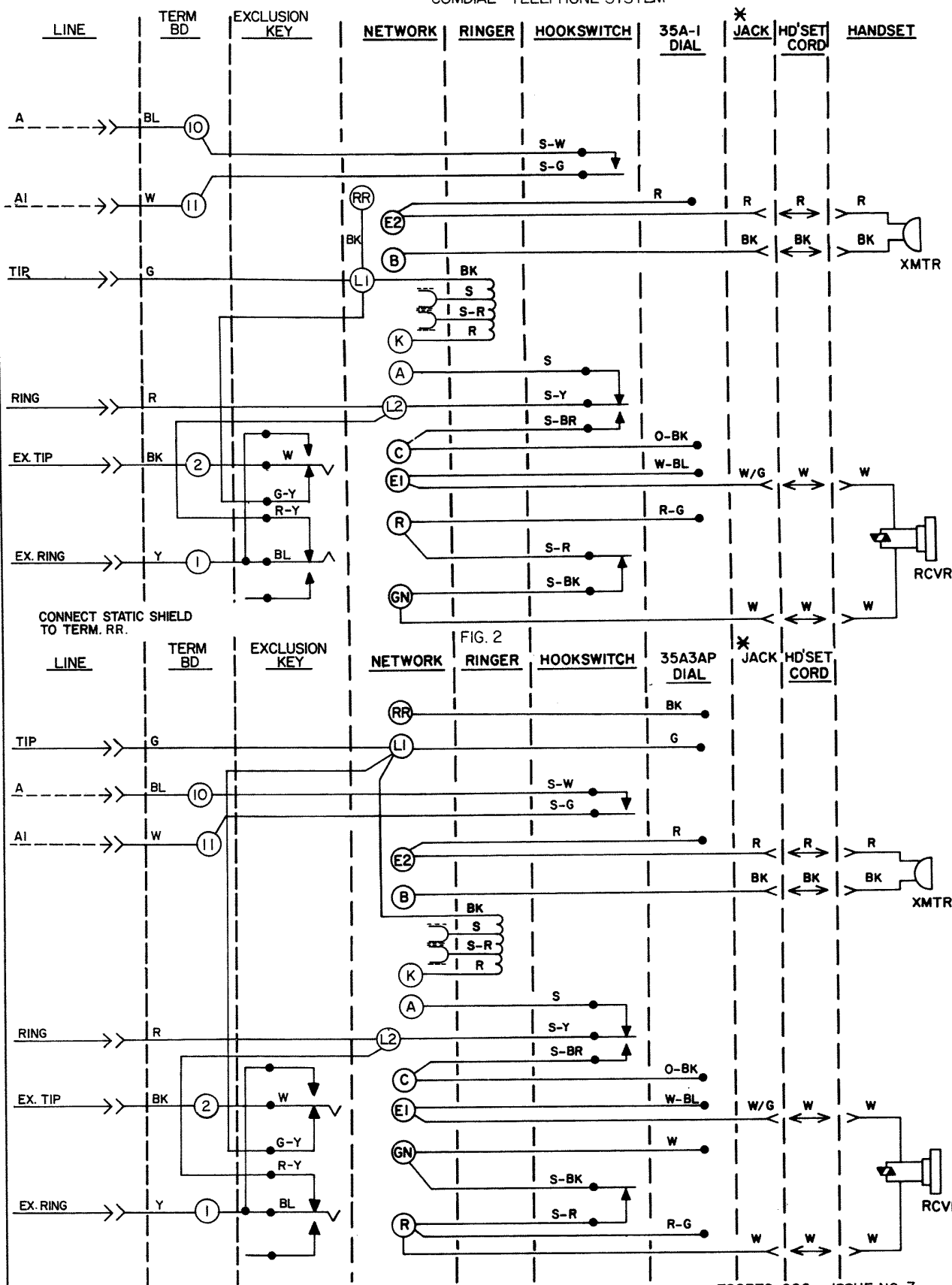
There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate the receiver or the telephone
- use a different branch power circuit for the receiver

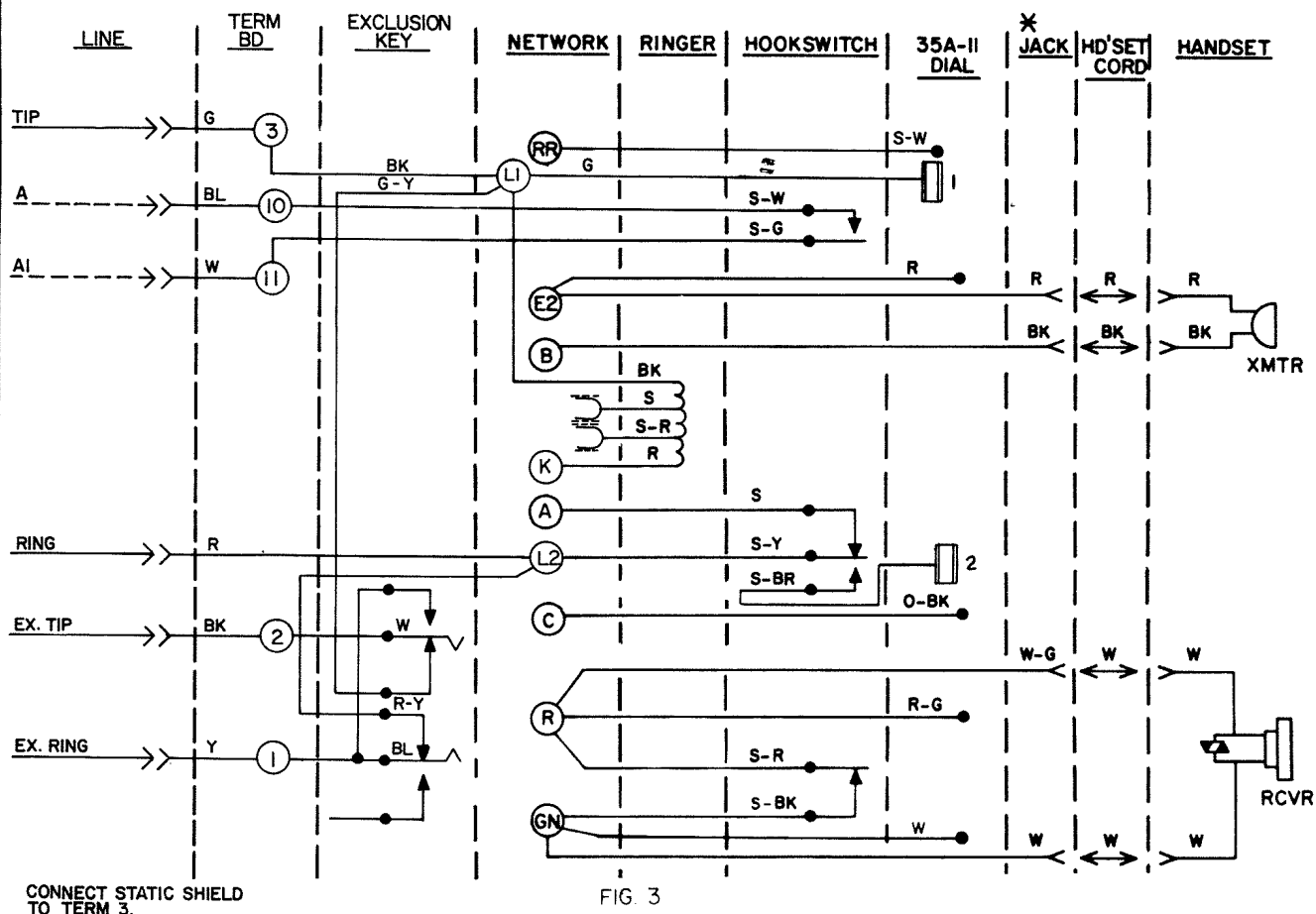
For further assistance, contact Stromberg-Carlson or an experienced radio/television technician.

# 2552B TELEPHONE WIRING DIAGRAM

COMDIAL TELEPHONE SYSTEM



\* USED ONLY ON MODULAR SETS



#### WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

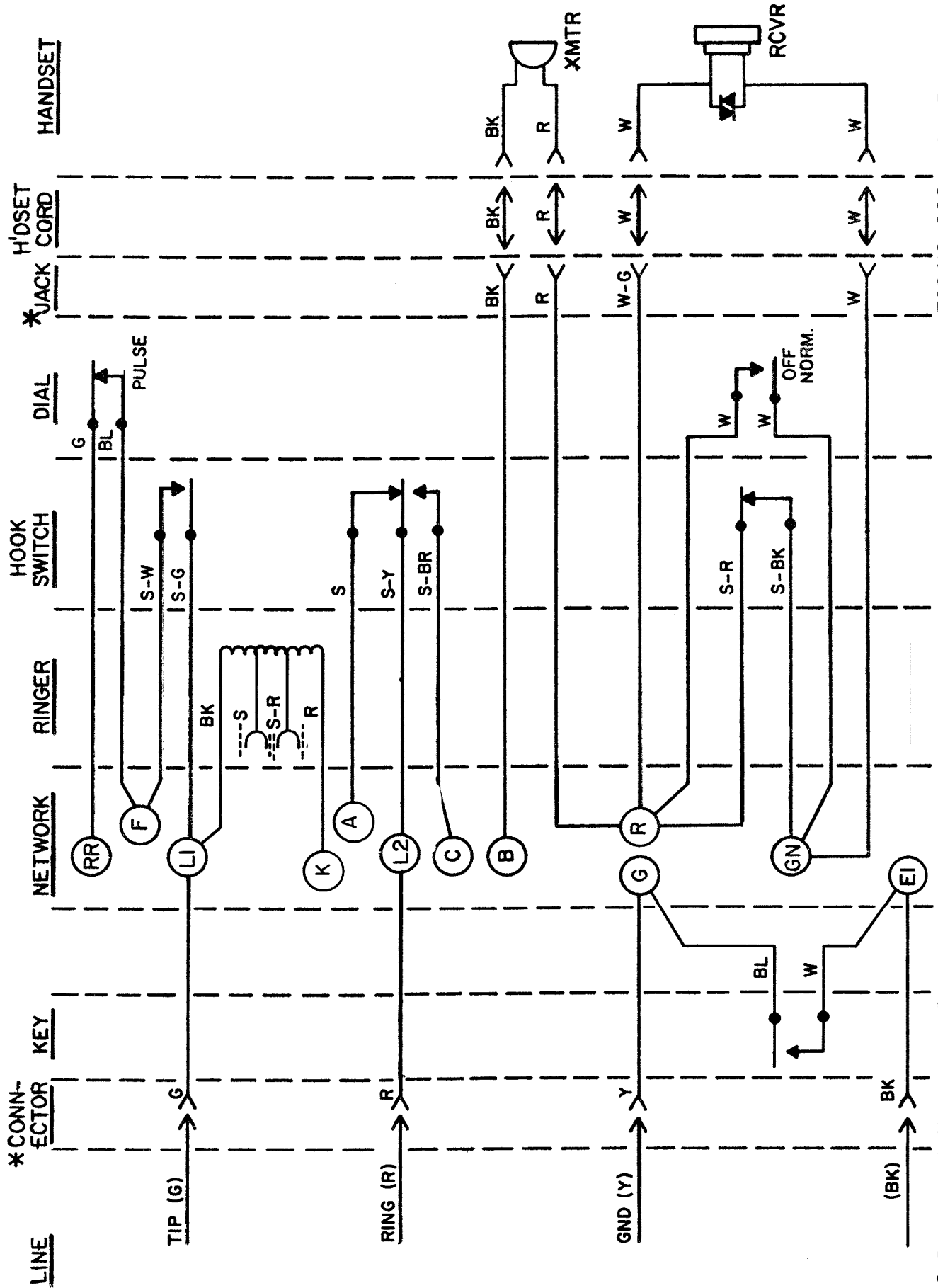
This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

# 1651B TELEPHONE WIRING DIAGRAM



\* USED ONLY ON MODULAR SETS

722410-000

ISSUE NO. 2

2551BP TELEPHONE WIRING DIAGRAM  
COMBIAL TELEPHONE SYSTEM

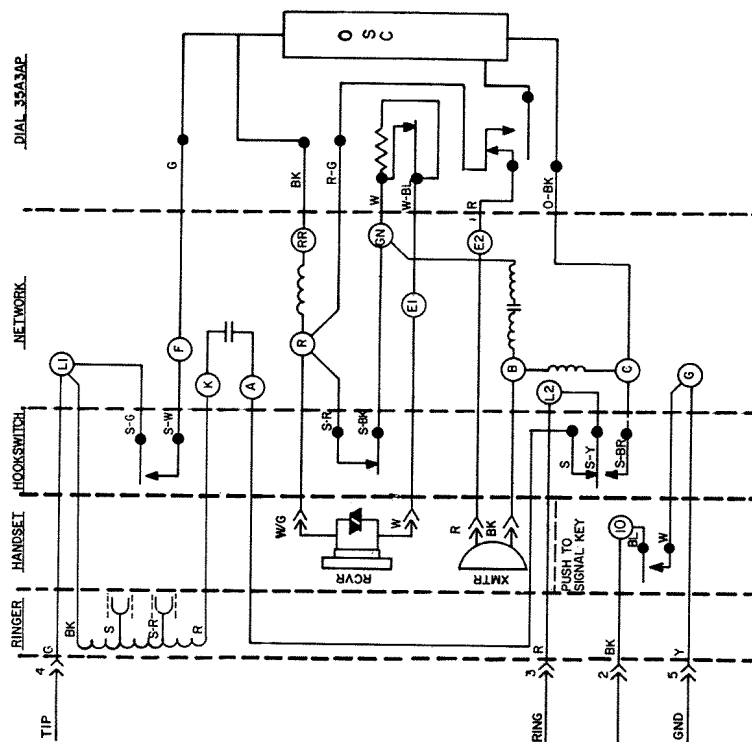


FIG. 1

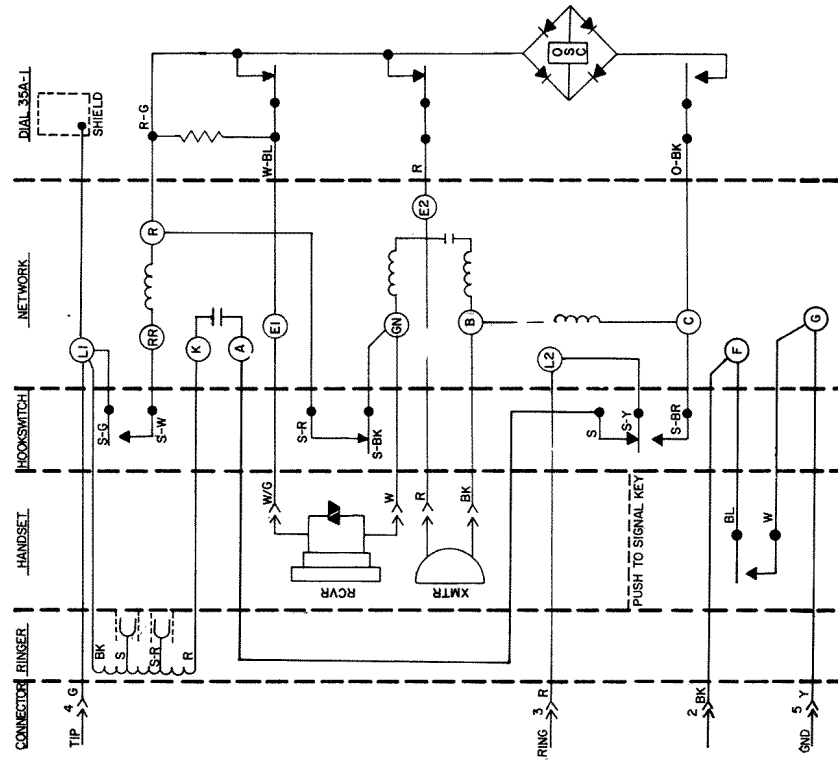


FIG. 2

722470-000, ISSUE 5  
SHT 1 OF 2

# WARNING

This telephone TONE-DIAL™ generates and uses radio frequency energy. If not installed properly, it may cause interference to radio or television reception.

This dial has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. Higher levels of interference are permissible in business installations than in residential installations.

There is no guarantee that interference will not occur in a particular installation. If the dial should cause interference to radio or television reception, interference will be present only while dialing is in progress. If this is determined to occur, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver or the telephone.
- Use a different branch power circuit for the receiver.

For further assistance, contact Comdial Telephone Systems Center or an experienced radio/television technician.

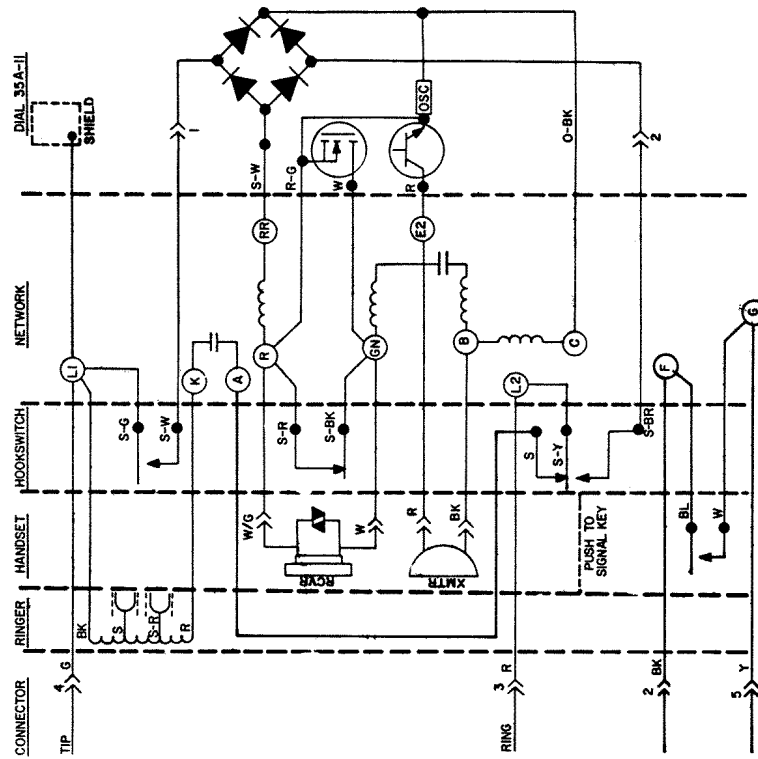
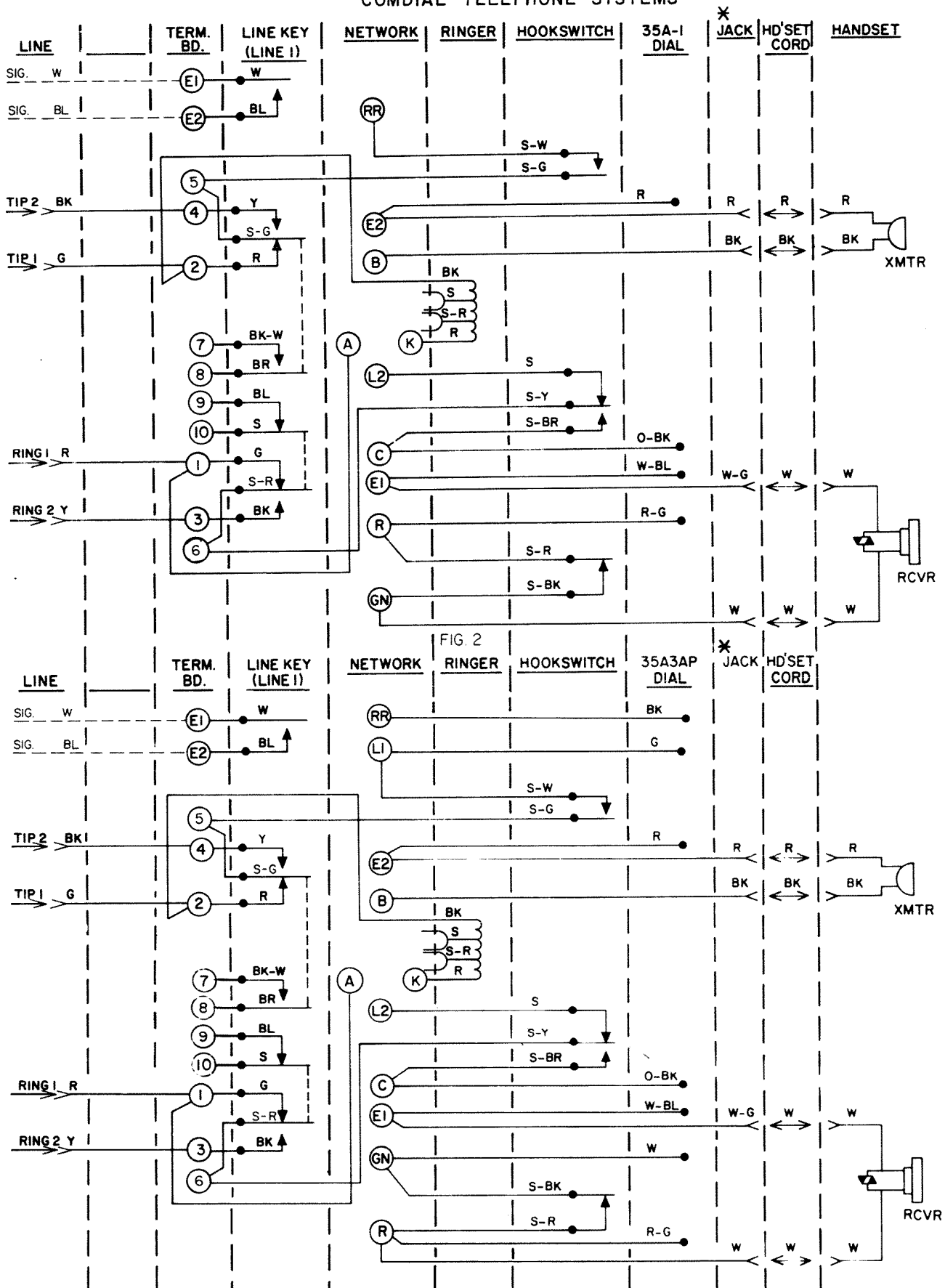


FIG. 3

2553 TELEPHONE WIRING DIAGRAM  
COMDIAL TELEPHONE SYSTEMS



\* USED ONLY ON MODULAR SETS

FIG. 1

722570-000

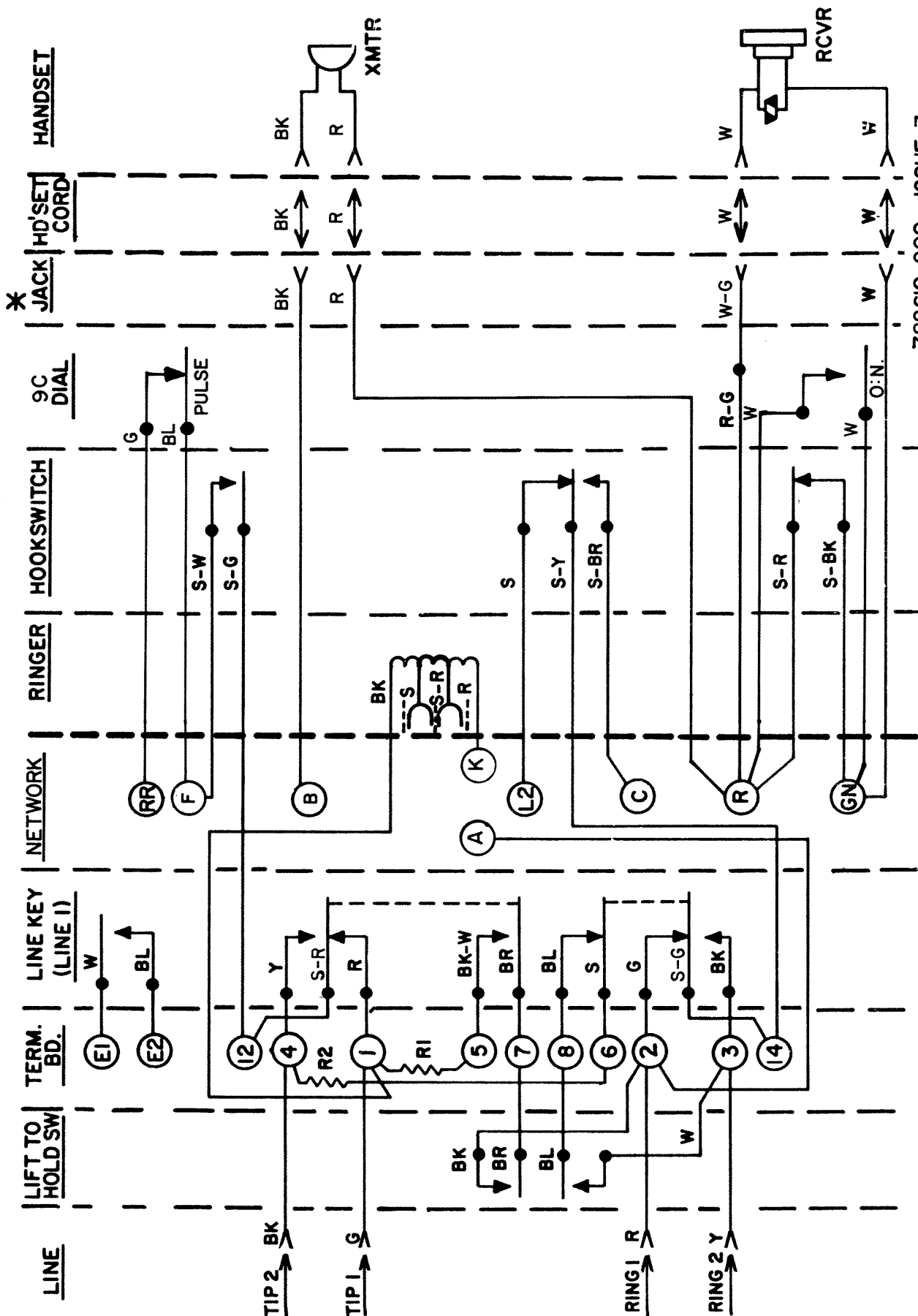
ISSUE NO. 4  
SHEET 1 OF 2



WARNING

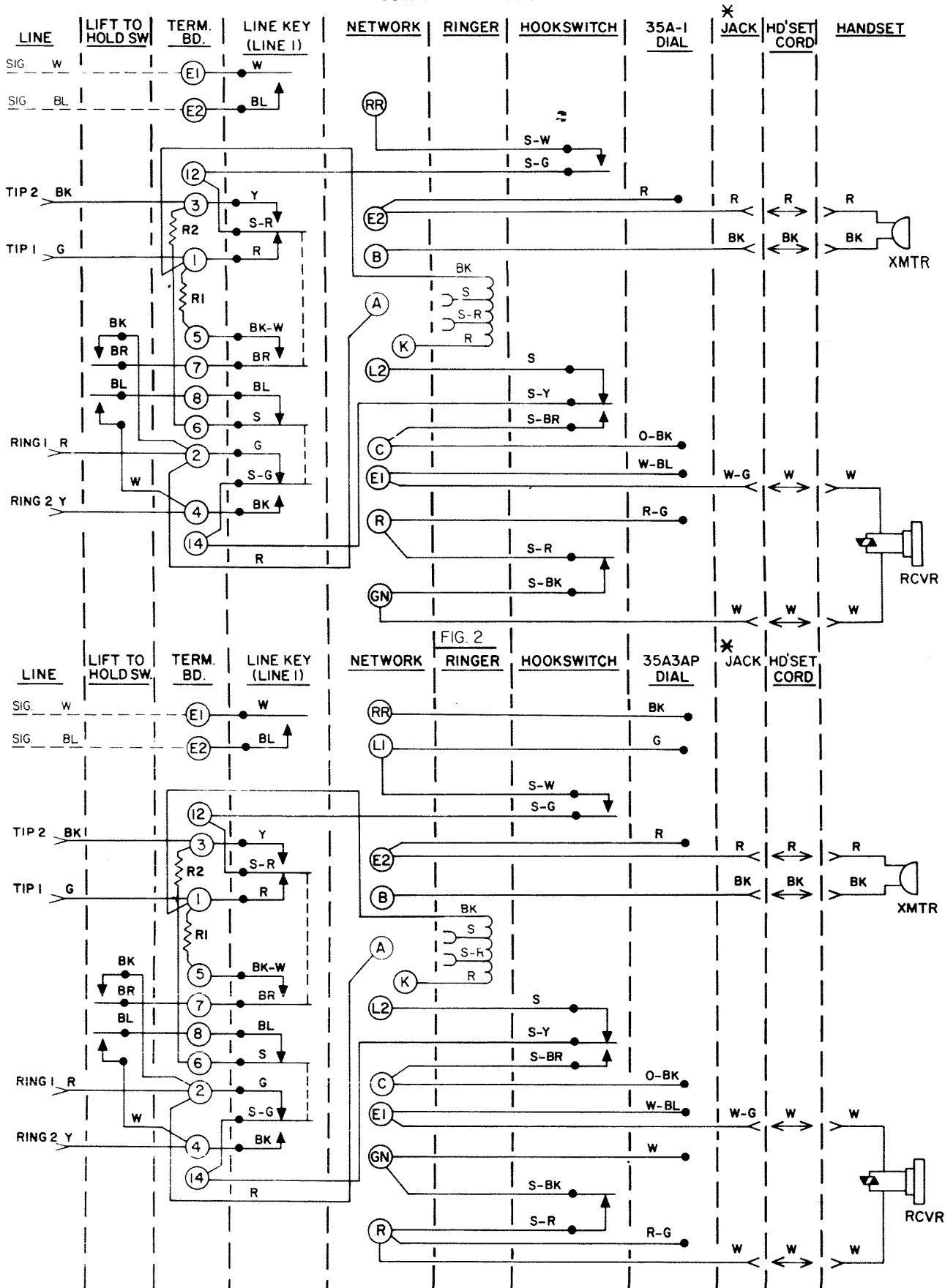
722570-000 ISSUE NO. 4  
SHEET 2 OF 2

# **I650B TELEPHONE** COMDIAL TELEPHONE SYSTEM



722610-000 ISSUE 3

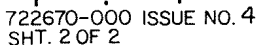
**2550BP TELEPHONE WIRING DIAGRAM**  
COMDIAL TELEPHONE SYSTEM



\* USED ONLY ON MODULAR SETS

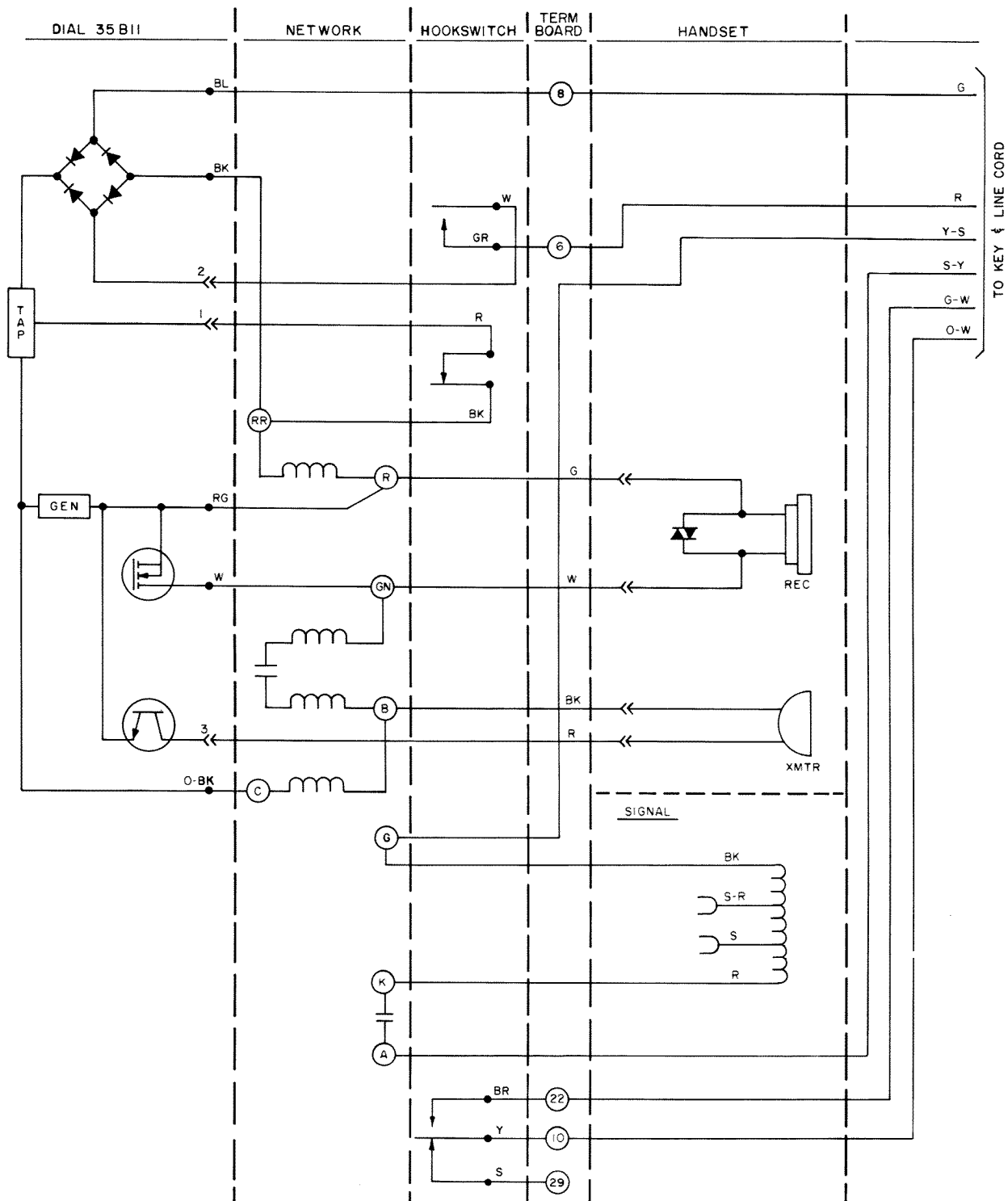
FIG. 1

722670-000 ISSUE NO. 4  
SHT. 1 OF 2



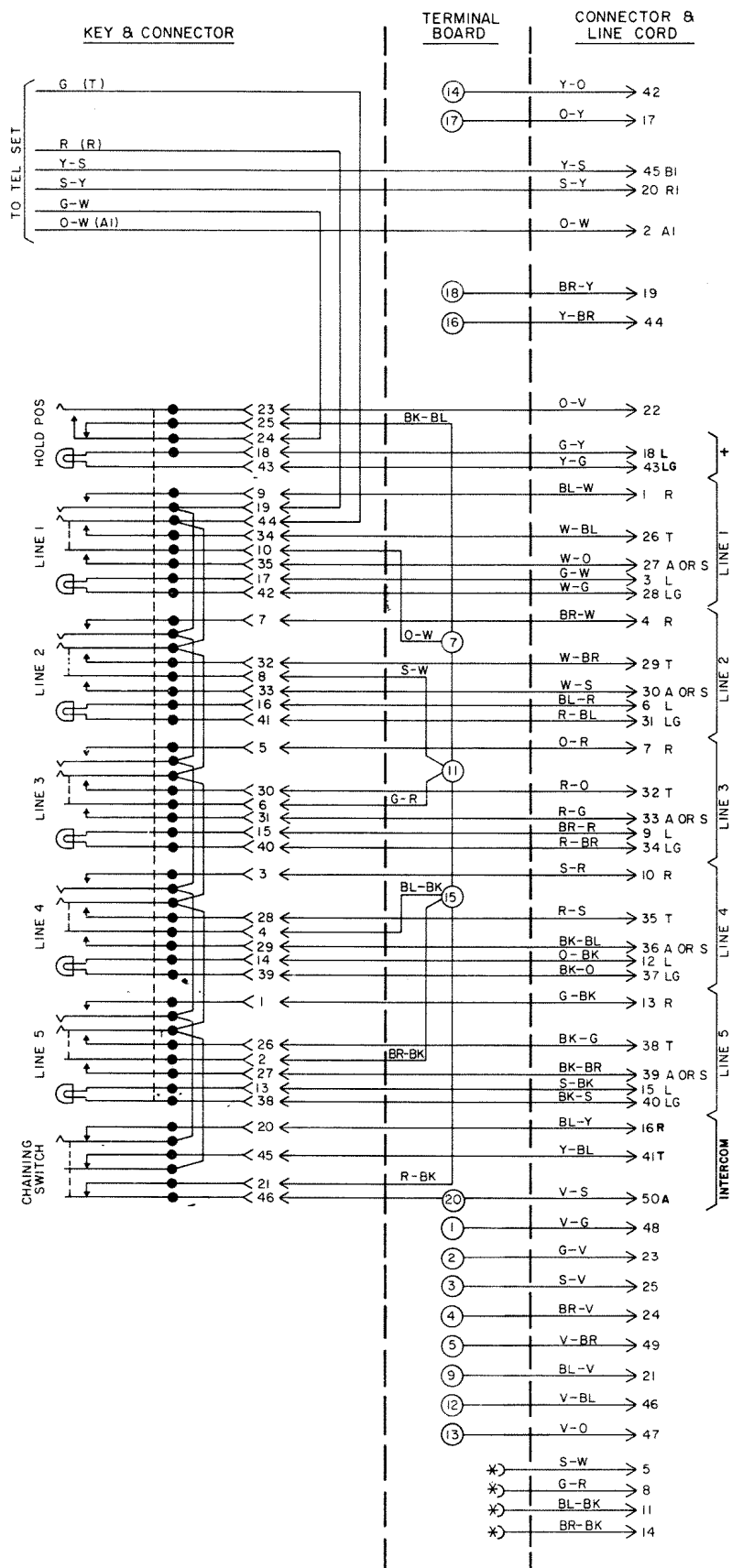
722670-000 ISSUE NO. 4  
SHT. 2 OF 2

# 2864 B / 2851 B TELEPHONE WIRING DIAGRAM



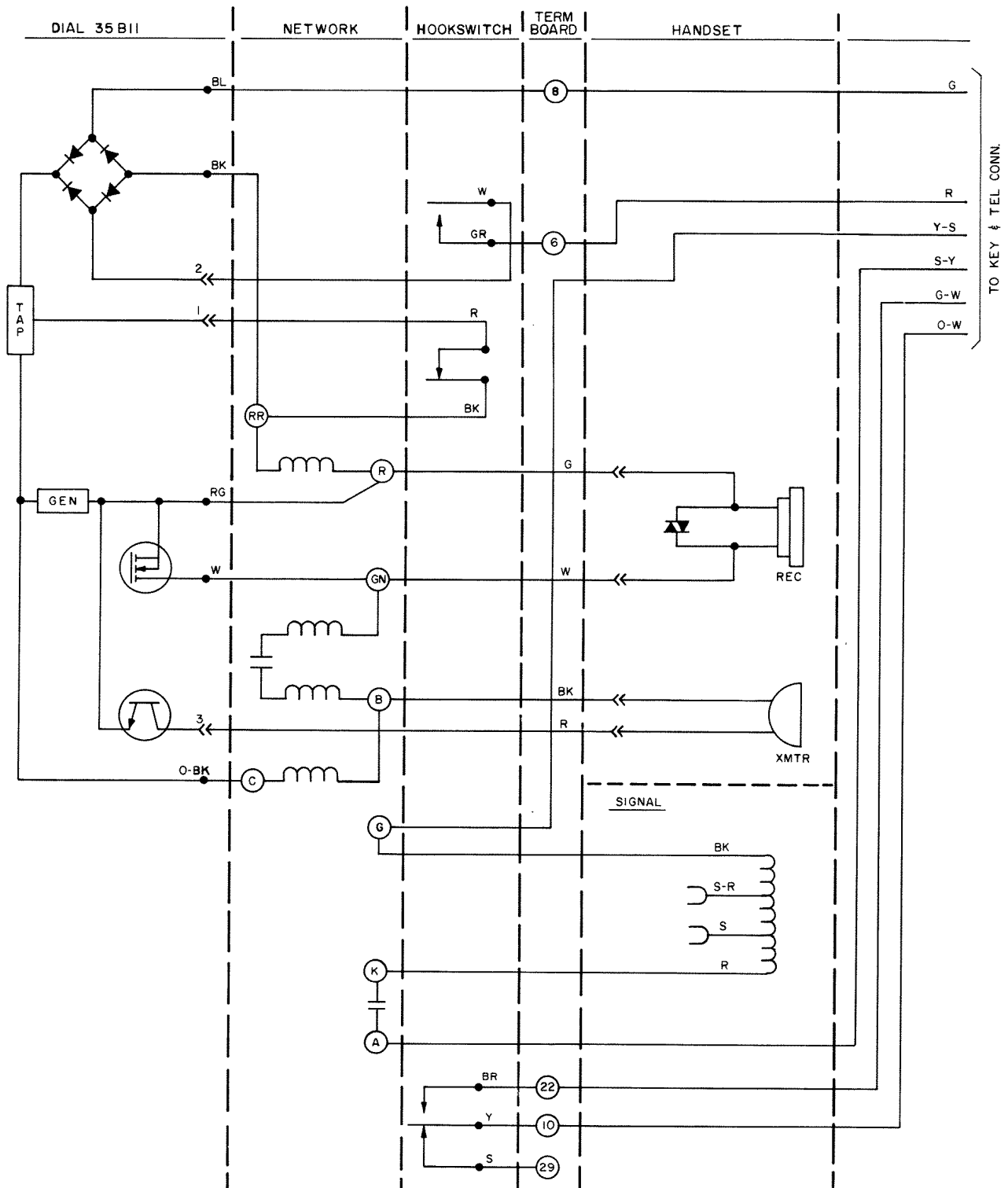
## NOTE:

1. CONNECT STATIC SHIELD TO TERMINAL 10
2. SLEEVE AND STORE RED AND GREEN LEADS FROM DIAL.



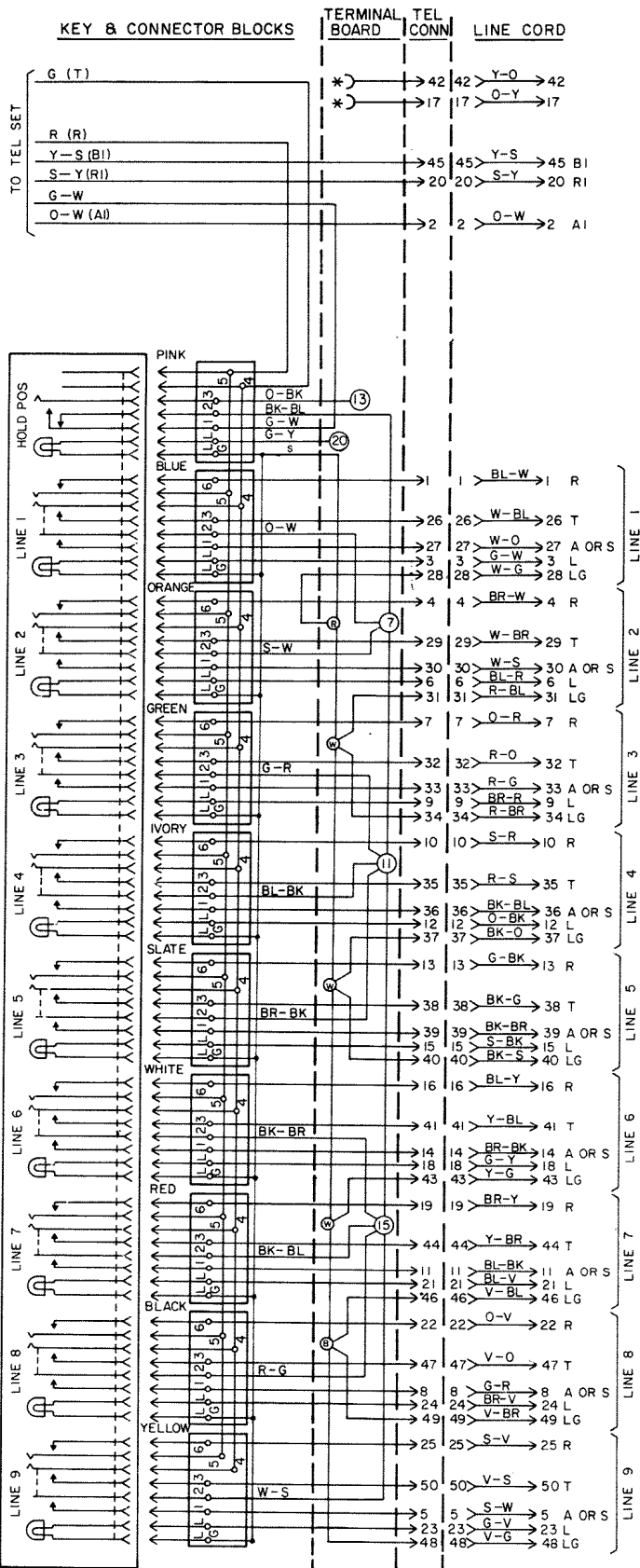
\* TAPED AND STORED  
+ USE IF INTERCOM LAMP IS NEEDED

# 2830B/2854 B TELEPHONE WIRING DIAGRAM



## NOTE:

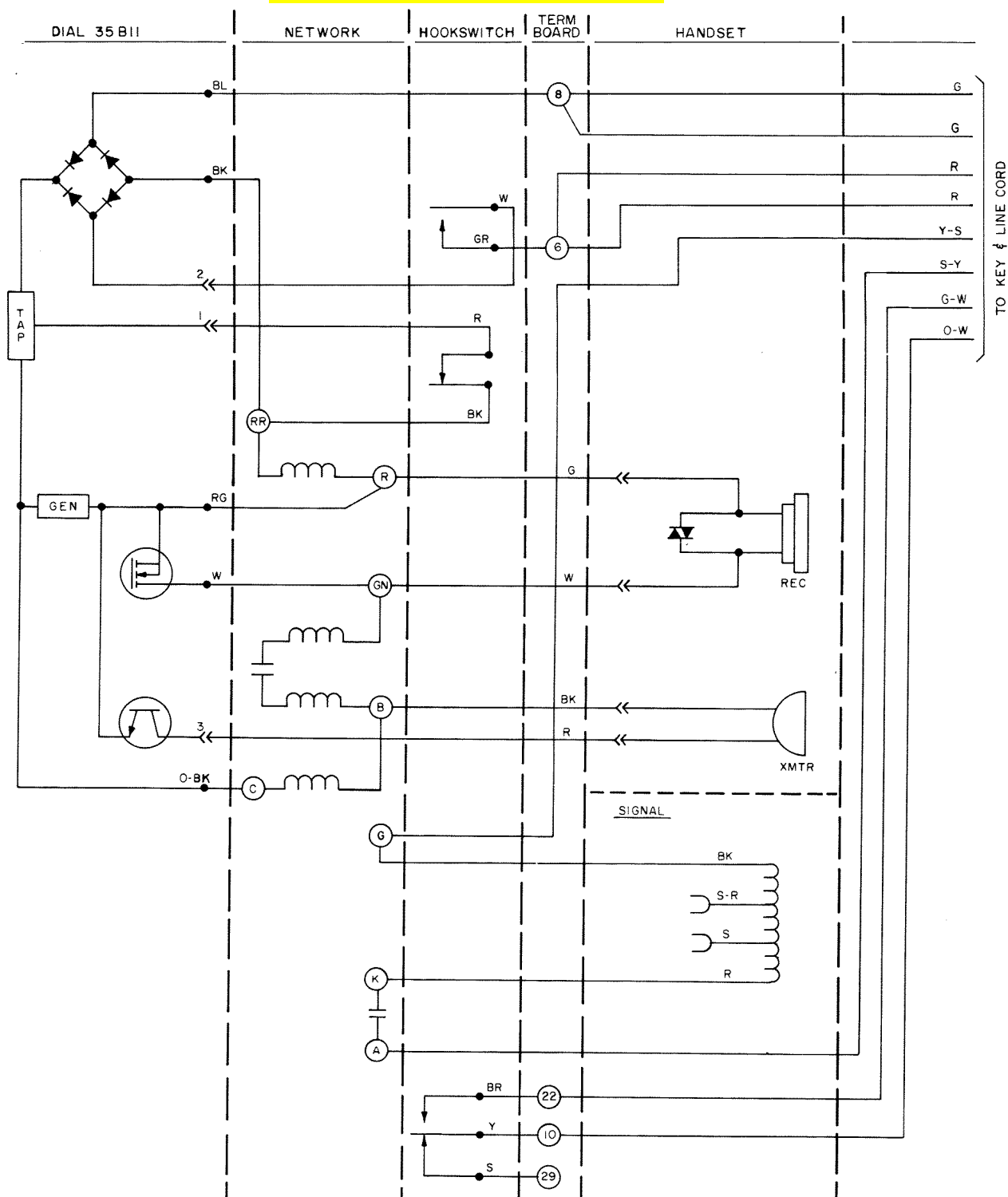
1. CONNECT STATIC SHIELD TO TERMINAL 10.
2. SLEEVE AND STORE RED AND GREEN LEADS FROM DIAL.



\* TAPED AND STORED

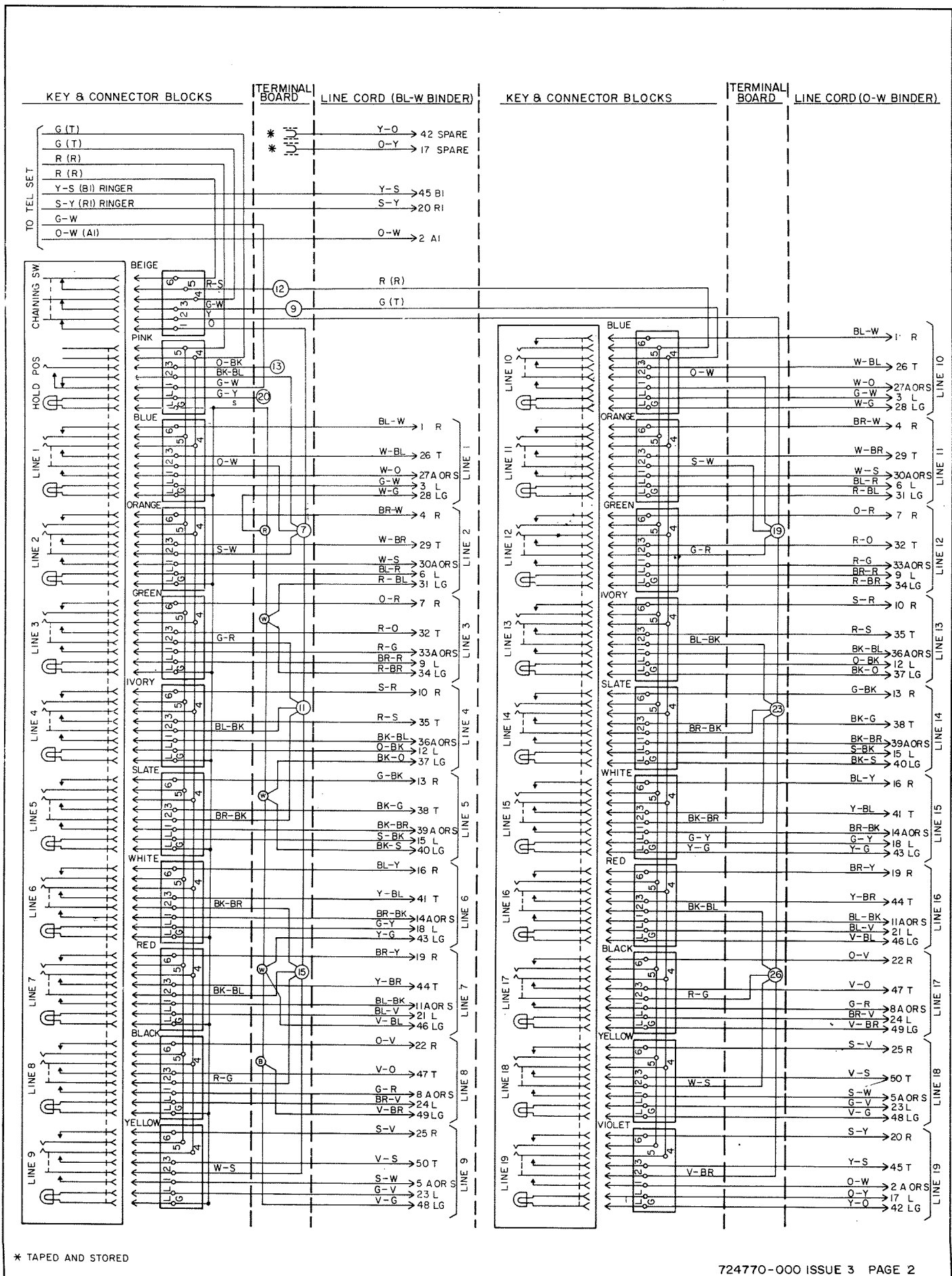
724370-000 ISSUE 3 PAGE 2

# 283I B TELEPHONE WIRING DIAGRAM



## NOTE

1. CONNECT STATIC SHIELD TO TERMINAL 10.
2. SLEEVE AND STORE RED AND GREEN DIAL LEADS.



## TECHNICAL NOTES

## TECHNICAL NOTES