



# FS 2

601A PANEL

DRAWING  
ISSUE

1  
2D  
3A

DR  
A

A

B

C

D

E

F

G

H

B

C

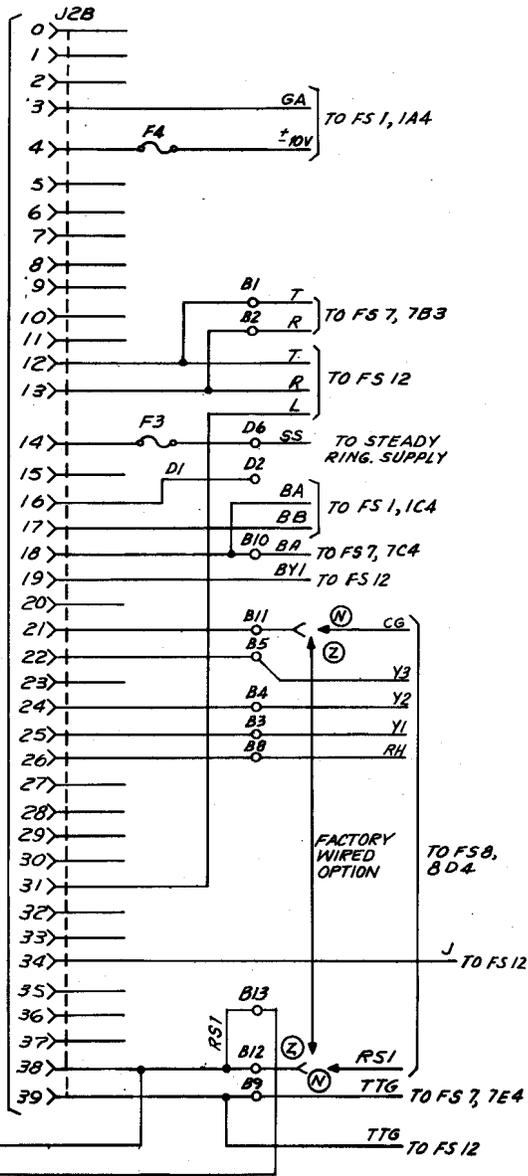
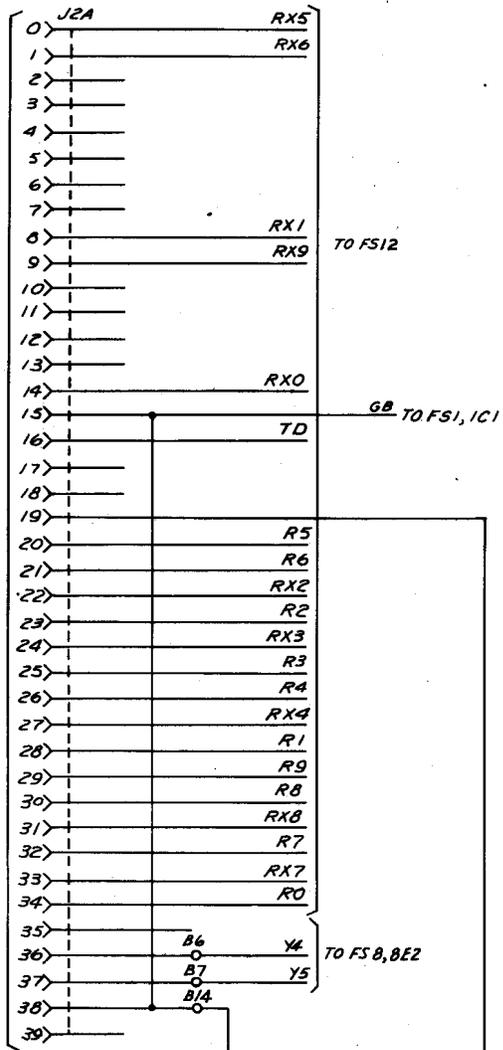
D

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H



DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

SD-69608-01-B2

BELL TELEPHONE LABORATORIES  
INCORPORATED

DWG SIZE  
35

PRINTED IN U.S.A.

0

1

2

3

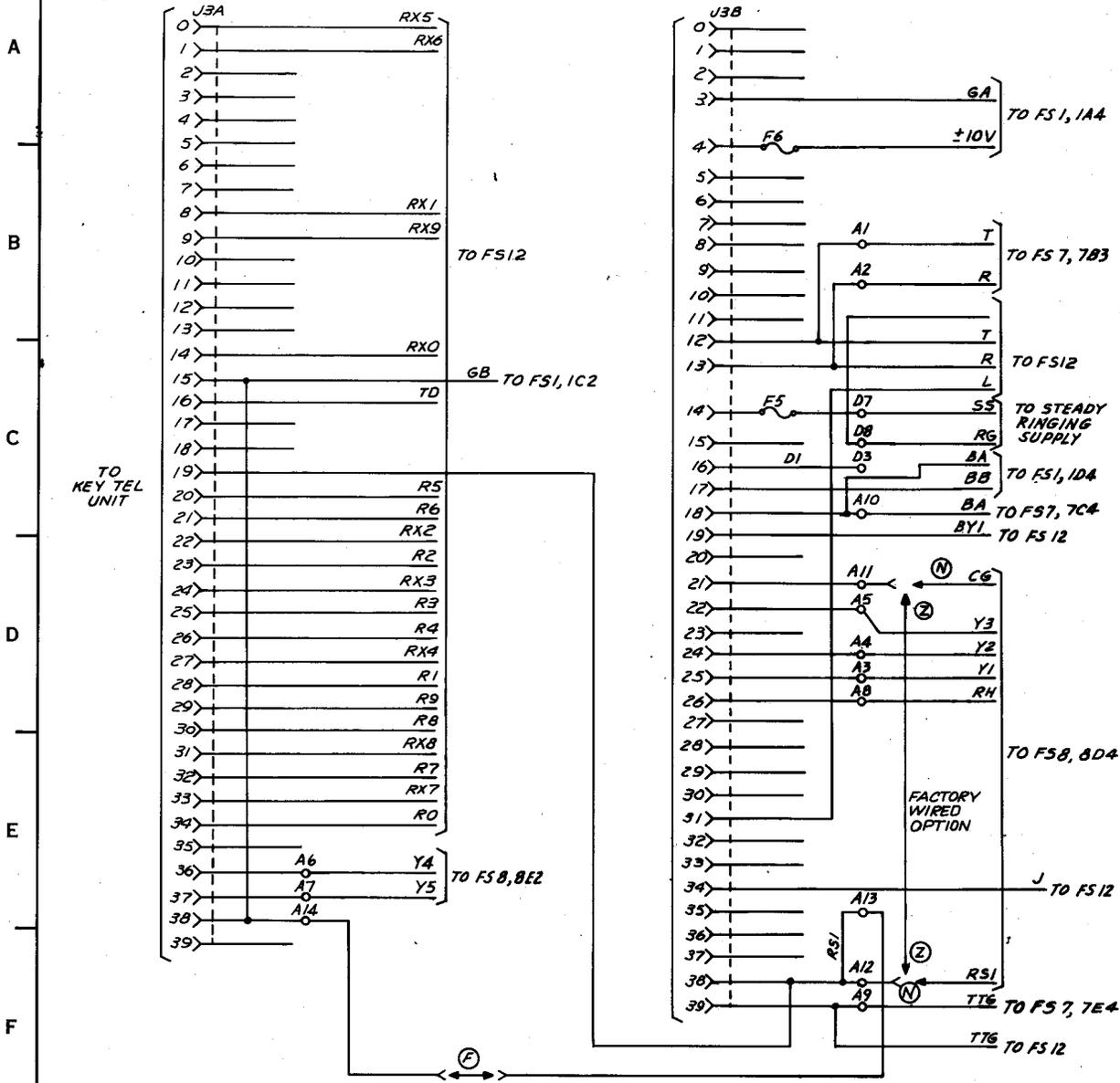
4

# FS 3

601A PANEL

DRAWING  
ISSUE

|    |
|----|
| 1  |
| 2D |
| 3A |



TO KEY TEL UNIT

FACTORY WIRED OPTION

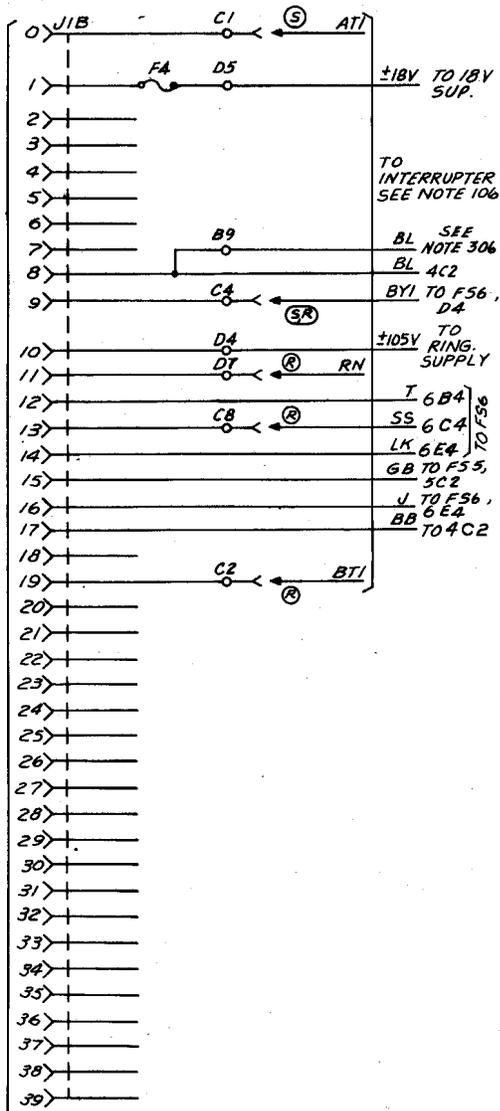
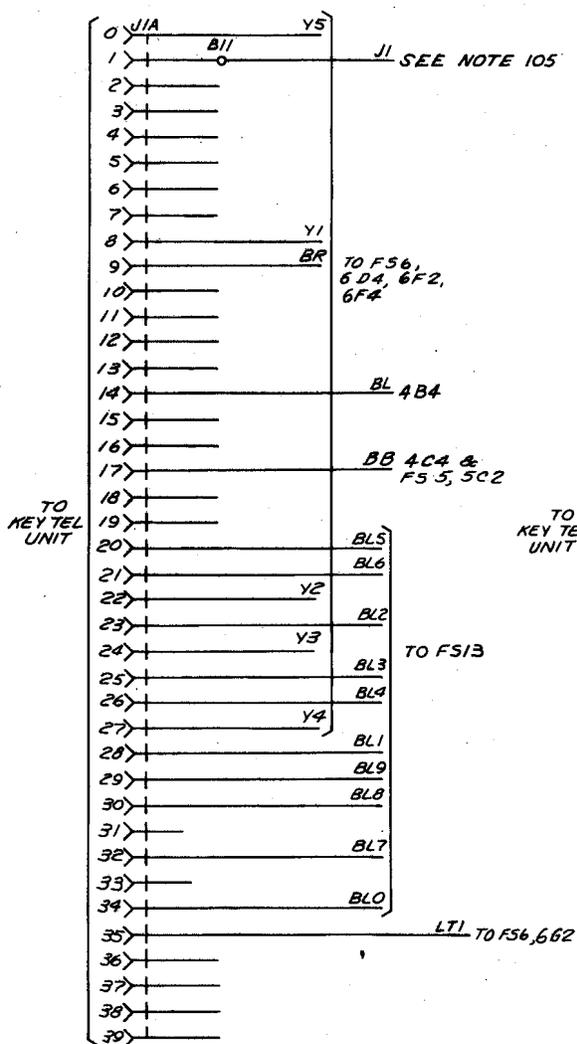
|  |                                     |
|--|-------------------------------------|
| DIAL INTERCOMMUNICATING<br>AND MISCELLANEOUS PANELS        | <b>SD-69608-01-B3</b>               |
| BELL TELEPHONE LABORATORIES<br><small>INCORPORATED</small> | <small>3S</small> PRINTED IN U.S.A. |

# FS 4

602A PANEL

DRAWING  
ISSUE

|    |
|----|
| 1  |
| 2D |
| 3A |



DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

SD-69608-01-B4

BELL TELEPHONE LABORATORIES  
INCORPORATED

3S

PRINTED IN U.S.A.

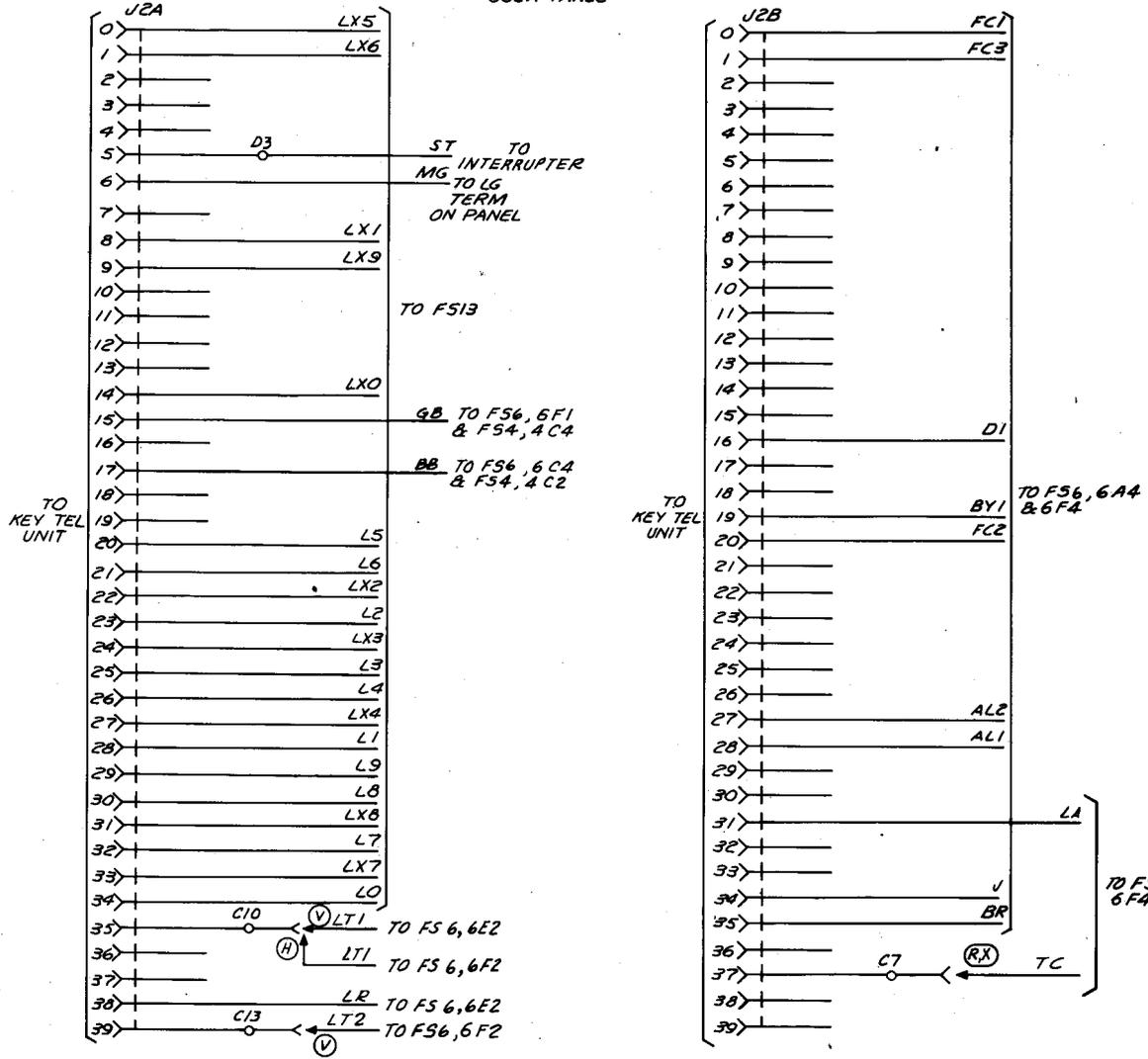
0 1 2 3 4

# FS 5

602A PANEL

|         |
|---------|
| DRAWING |
| ISSUE   |
| 1       |
| 2D      |
| 3A      |

A  
B  
C  
D  
E  
F  
G  
H



|   |  |                |                   |
|---|--|----------------|-------------------|
| DIAL INTERCOMMUNICATING<br>AND MISCELLANEOUS PANELS |  | SD-69608-01-B5 |                   |
| BELL TELEPHONE LABORATORIES<br>INCORPORATED         |  | 3S             | PRINTED IN U.S.A. |

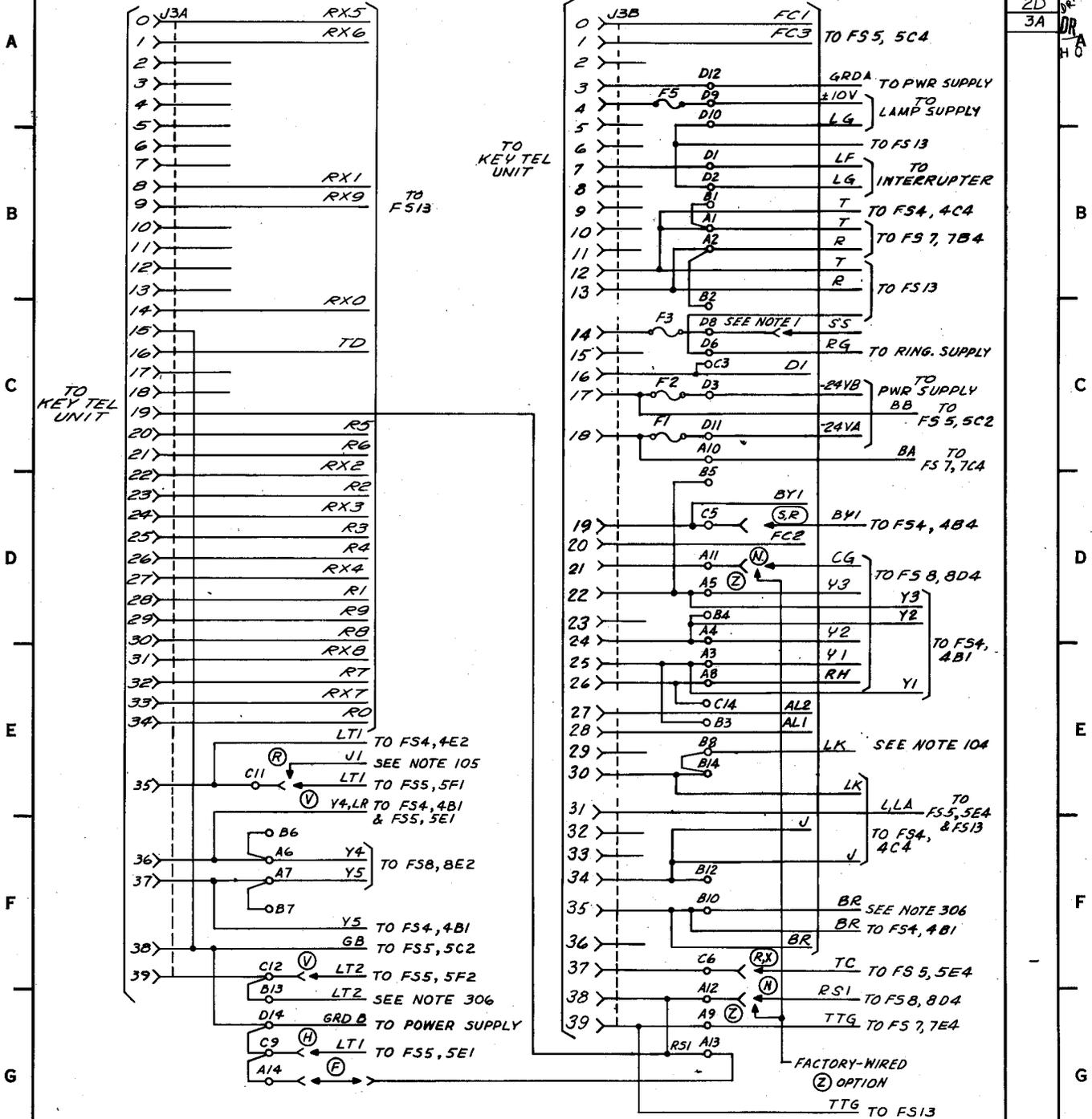
0 1 2 3 4

# FS 6

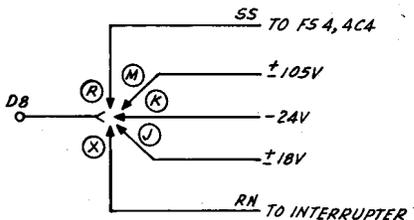
602A PANEL

DRAWING  
ISSUE

1  
2D  
3A



NOTE:  
1. THE OPTIONS THAT MAY BE CONNECTED TO TERMINAL DB  
ARE AS FOLLOWS:



|   |                   |                |
|---|-------------------|----------------|
| DIAL INTERCOMMUNICATING<br>AND MISCELLANEOUS PANELS |                   | SD-69608-01-B6 |
| BELL TELEPHONE LABORATORIES<br>INCORPORATED         |                   |                |
| DWG. SIZE<br>3S                                     | PRINTED IN U.S.A. |                |

A  
B  
C  
D  
E  
F  
G  
H

0 1 2 3 4

TO KEY TEL UNIT

TO FS 5, 5C4

TO PWR SUPPLY

TO LAMP SUPPLY

TO FS 13

TO INTERRUPTER

TO FS 4, 4C4

TO FS 7, 7B4

TO FS 13

TO RING. SUPPLY

TO PWR SUPPLY

TO FS 5, 5C2

TO FS 7, 7CA

TO FS 4, 4B4

TO FS 8, 8D4

TO FS 4, 4B1

SEE NOTE 104

TO FS 5, 5E4

TO FS 4, 4C4

SEE NOTE 306

TO FS 5, 5E4

TO FS 8, 8D4

TO FS 7, 7E4

FACTORY-WIRED  
OPTION

TTG TO FS 13

0 1 2 3 4

# FS 7

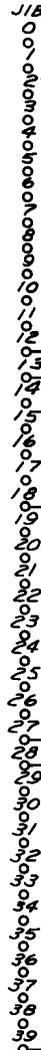
603 PANEL  
426A KTU POSITION

DRAWING  
ISSUE

1

3A

A  
B  
C  
D  
E  
F  
G  
H



T } TO FS 1, 1B4, FS 2,  
R } 2B4; FS 3, 3B4;  
OR FS 6, 6B4

BA } TO FS 1, 1CA  
FS 2, 2CA; FS 3, 3CA  
OR FS 6, 6CA



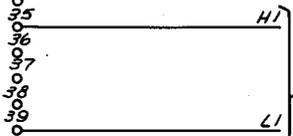
BA

LB

HB

TTG

TTG } TO FS 1, 1F4; FS 2, 2F4;  
FS 3, 3F4 OR FS 6, 6F4



HI

LI

TO NEXT  
SHEET

NOTE:  
1. THE CABLE TAIL SHALL BE COLOR-CODED AS SHOWN  
ON NOTE 304.

|   |  |                |                   |
|---|--|----------------|-------------------|
| DIAL INTERCOMMUNICATING<br>AND MISCELLANEOUS PANELS |  | SD-69608-01-B7 |                   |
| BELL TELEPHONE LABORATORIES<br>INCORPORATED         |  | 3S             | PRINTED IN U.S.A. |

0 1 2 3 4

0 1 2 3 4

# FS 8

603 PANEL

427A KTU POSITION

DRAWING  
ISSUE

1

3A

OR  
A

A

B

C

D

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G

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B

C

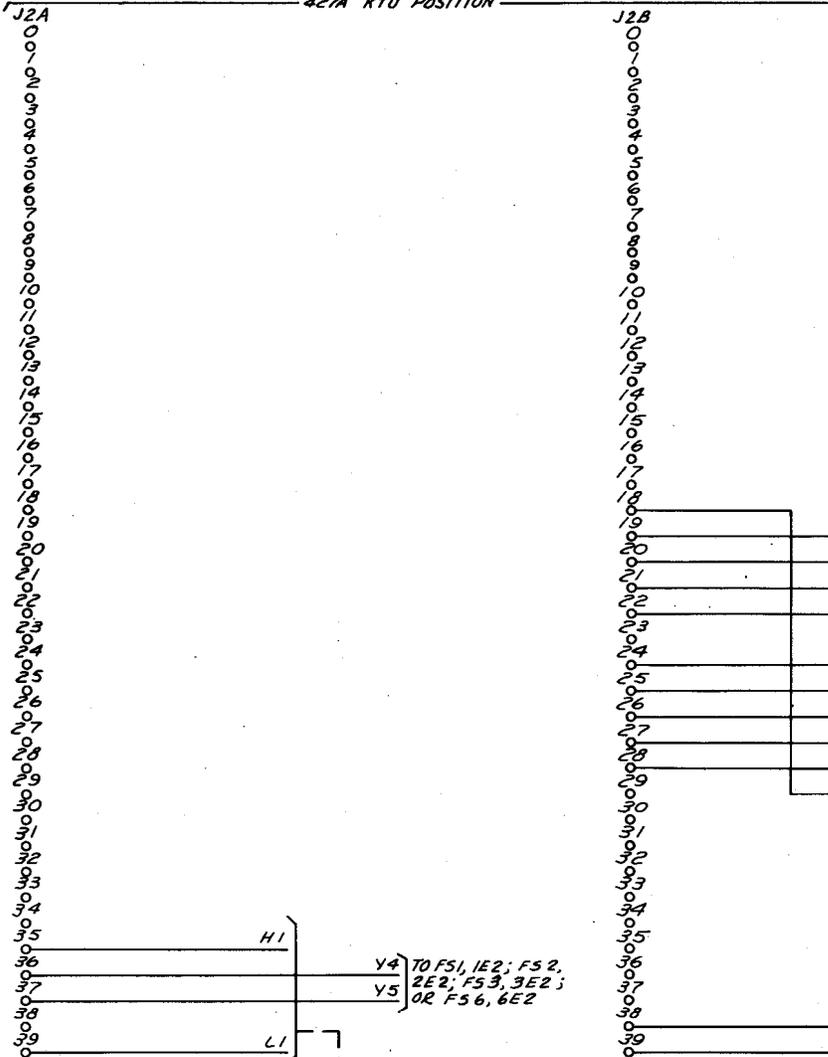
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G

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TO PREV SHEET

\*CONNECT AS REQUIRED:  
XY-11TH KEY  
PP-12TH KEY

NOTE:  
1. THE CABLE TAIL SHALL BE COLOR-CODED AS SHOWN  
ON NOTE 304.

DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

SD-69608-01-B8

BELL TELEPHONE LABORATORIES  
INCORPORATED

DWG SIZE  
3S

PRINTED IN U.S.A.

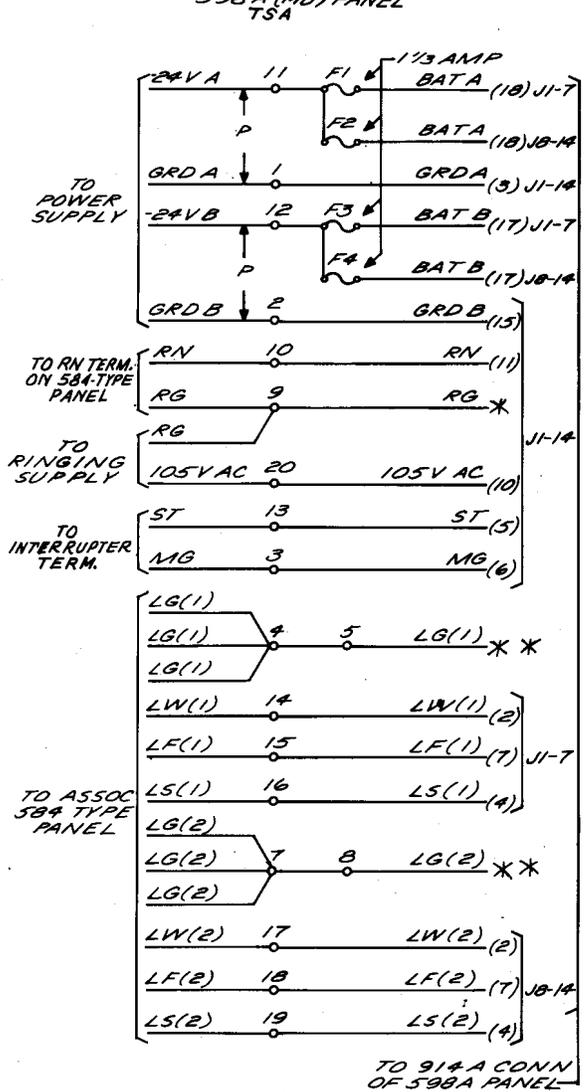
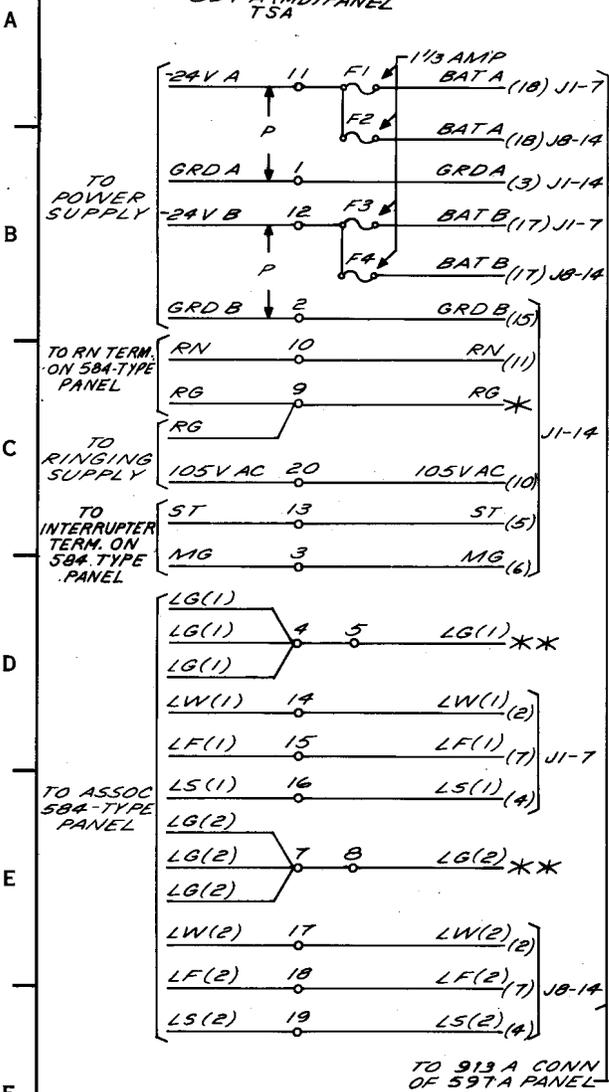
0 1 2 3 4

### FS 9

SIGNALING AND POWER CKT FOR  
597 A (MD) PANEL  
TSA

### FS 10

SIGNALING AND POWER CKT FOR  
598 A (MD) PANEL  
TSA



\* TO RG MULTIPLE  
\*\* TO LG MULTIPLE

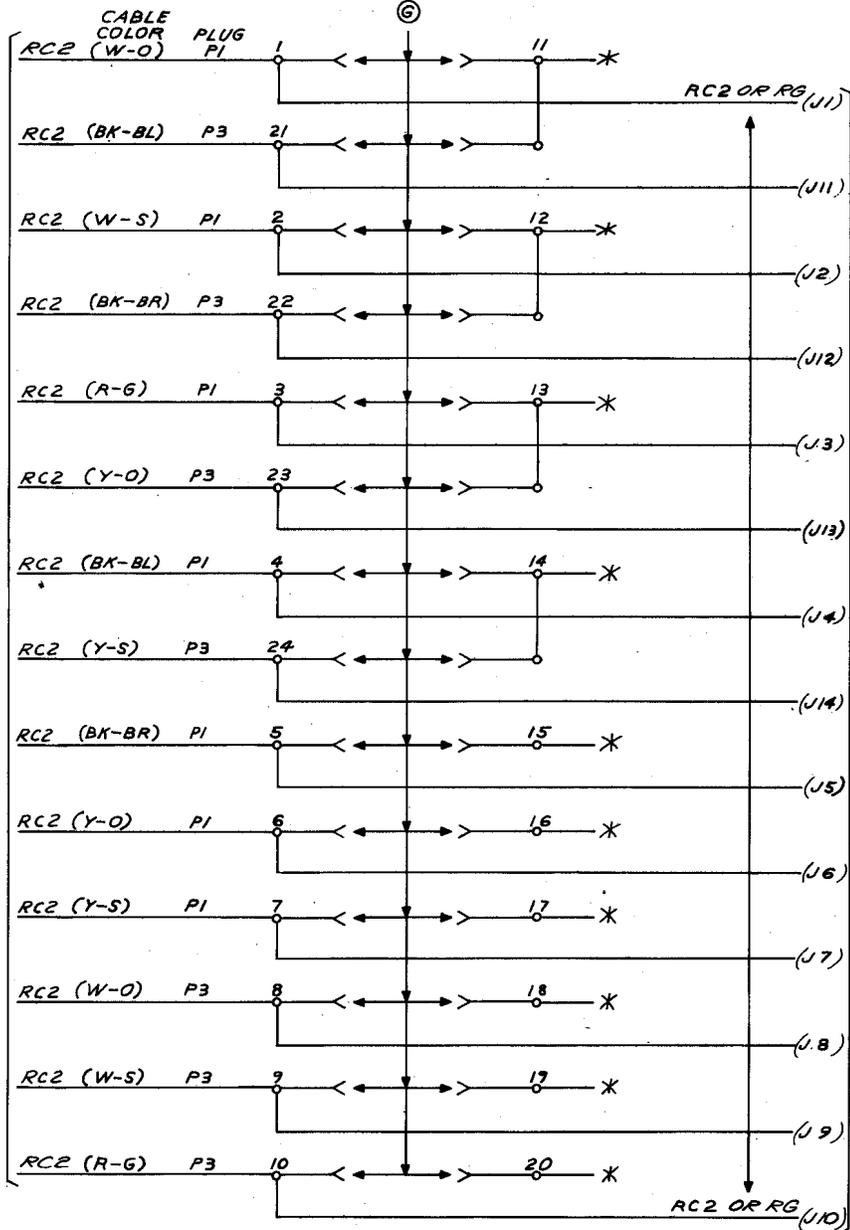
0 1 2 3 4

DRAWING  
ISSUE

1

# FSII

FIELD OPTION  
597A (MD) AND 597B PANELS  
TBS



TO FSII

TO CONN  
PIN 0

\* TO RINGING GRD MULTIPLE  
TERM. 25-30 ARE SPARE

ISSUE

DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

SD-69608-01-B10

BELL TELEPHONE LABORATORIES  
INCORPORATED

DWG SIZE  
35

PRINTED IN U.S.A.

0 1 2 3 4

# FS 12

CABLE DIAGRAM  
601A PANEL

DRAWING  
ISSUE

3A

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

| COLOR | LEAD<br>DESIG | KS-<br>16671,L1<br>CONN | PIN<br>NO. | 914A<br>J<br>CONN | 914A<br>TERM. |
|-------|---------------|-------------------------|------------|-------------------|---------------|
| W-BL  | RG            |                         | 26         |                   | RG            |
| BL-W  | R1            |                         | 1          | 1A                | 28            |
| W-O   | RG            |                         | 27         |                   | RG            |
| O-W   | R2            |                         | 2          | 1A                | 23            |
| W-G   | RG            |                         | 28         |                   | RG            |
| G-W   | R3            |                         | 3          | 1A                | 25            |
| W-BR  | RG            |                         | 29         |                   | RG            |
| BR-W  | R4            |                         | 4          | 1A                | 26            |
| W-S   | RG            |                         | 30         |                   | RG            |
| S-W   | R5            |                         | 5          | 1A                | 20            |
| R-BL  | RG            |                         | 31         |                   | RG            |
| BL-R  | R6            |                         | 6          | 1A                | 21            |
| R-O   | RG            |                         | 32         |                   | RG            |
| O-R   | R7            |                         | 7          | 1A                | 32            |
| R-G   | RG            |                         | 33         |                   | RG            |
| G-R   | R8            |                         | 8          | 1A                | 30            |
| R-BR  | RG            |                         | 34         |                   | RG            |
| BR-R  | R9            |                         | 9          | 1A                | 29            |
| R-S   | RG            |                         | 35         |                   | RG            |
| S-R   | RG            |                         | 10         | 1A                | 34            |
| BK-BL | RG            |                         | 36         |                   | RG            |
| BL-BK | RX1           |                         | 11         | 1A                | 8             |
| BK-O  | RG            |                         | 37         |                   | RG            |
| O-BK  | RX2           |                         | 12         | 1A                | 22            |
| BK-G  | RG            |                         | 38         |                   | RG            |
| G-BK  | RX3           |                         | 13         | 1A                | 24            |
| BK-BR | RG            |                         | 39         |                   | RG            |
| BR-BK | RX4           |                         | 14         | 1A                | 27            |
| BK-S  | RG            |                         | 40         |                   | RG            |
| S-BK  | RX5           |                         | 15         | 1A                | 0             |
| Y-BL  | RG            |                         | 41         |                   | RG            |
| BL-Y  | RX6           |                         | 16         | 1A                | 1             |
| Y-O   | RG            |                         | 42         |                   | RG            |
| O-Y   | RX7           |                         | 17         | 1A                | 33            |
| Y-G   | RG            |                         | 43         |                   | RG            |
| G-Y   | RX8           |                         | 18         | 1A                | 31            |
| Y-BR  | RG            |                         | 44         |                   | RG            |
| BR-Y  | RX9           |                         | 19         | 1A                | 9             |
| Y-S   | RG            |                         | 45         |                   | RG            |
| S-Y   | RX0           |                         | 20         | 1A                | 14            |
| V-BL  | T             |                         | 46         | 1B                | 12            |
| BL-V  | R             |                         | 21         | 1B                | 13            |
| V-O   | LG            |                         | 47         |                   | LG            |
| O-V   | L             |                         | 22         | 1B                | 31            |
| V-G   | TD            |                         | 48         | 1A                | 16            |
| G-V   | J             |                         | 23         | 1B                | 34            |
| V-BR  | BY1           |                         | 49         | 1B                | 19            |
| BR-V  | TTG           |                         | 24         | 1B                | 39            |
| V-S   |               |                         | 50         |                   |               |
| S-V   |               |                         | 25         |                   |               |

| COLOR | LEAD<br>DESIG | KS-<br>16671,L1<br>CONN | PIN<br>NO. | 914A<br>J<br>CONN | 914A<br>TERM. |
|-------|---------------|-------------------------|------------|-------------------|---------------|
| W-BL  | RG            |                         | 26         |                   | RG            |
| BL-W  | R1            |                         | 1          | 2A                | 28            |
| W-O   | RG            |                         | 27         |                   | RG            |
| O-W   | R2            |                         | 2          | 2A                | 23            |
| W-G   | RG            |                         | 28         |                   | RG            |
| G-W   | R3            |                         | 3          | 2A                | 25            |
| W-BR  | RG            |                         | 29         |                   | RG            |
| BR-W  | R4            |                         | 4          | 2A                | 26            |
| W-S   | RG            |                         | 30         |                   | RG            |
| S-W   | R5            |                         | 5          | 2A                | 20            |
| R-BL  | RG            |                         | 31         |                   | RG            |
| BL-R  | R6            |                         | 6          | 2A                | 21            |
| R-O   | RG            |                         | 32         |                   | RG            |
| O-R   | R7            |                         | 7          | 2A                | 32            |
| R-G   | RG            |                         | 33         |                   | RG            |
| G-R   | R8            |                         | 8          | 2A                | 30            |
| R-BR  | RG            |                         | 34         |                   | RG            |
| BR-R  | R9            |                         | 9          | 2A                | 29            |
| R-S   | RG            |                         | 35         |                   | RG            |
| S-R   | RG            |                         | 10         | 2A                | 34            |
| BK-BL | RG            |                         | 36         |                   | RG            |
| BL-BK | RX1           |                         | 11         | 2A                | 8             |
| BK-O  | RG            |                         | 37         |                   | RG            |
| O-BK  | RX2           |                         | 12         | 2A                | 22            |
| BK-G  | RG            |                         | 38         |                   | RG            |
| G-BK  | RX3           |                         | 13         | 2A                | 24            |
| BK-BR | RG            |                         | 39         |                   | RG            |
| BR-BK | RX4           |                         | 14         | 2A                | 27            |
| BK-S  | RG            |                         | 40         |                   | RG            |
| S-BK  | RX5           |                         | 15         | 2A                | 0             |
| Y-BL  | RG            |                         | 41         |                   | RG            |
| BL-Y  | RX6           |                         | 16         | 2A                | 1             |
| Y-O   | RG            |                         | 42         |                   | RG            |
| O-Y   | RX7           |                         | 17         | 2A                | 33            |
| Y-G   | RG            |                         | 43         |                   | RG            |
| G-Y   | RX8           |                         | 18         | 2A                | 31            |
| Y-BR  | RG            |                         | 44         |                   | RG            |
| BR-Y  | RX9           |                         | 19         | 2A                | 9             |
| Y-S   | RG            |                         | 45         |                   | RG            |
| S-Y   | RX0           |                         | 20         | 2A                | 14            |
| V-BL  | T             |                         | 46         | 2B                | 12            |
| BL-V  | R             |                         | 21         | 2B                | 13            |
| V-O   | LG            |                         | 47         |                   | LG            |
| O-V   | L             |                         | 22         | 2B                | 31            |
| V-G   | TD            |                         | 48         | 2A                | 16            |
| G-V   | J             |                         | 23         | 2B                | 34            |
| V-BR  | BY1           |                         | 49         | 2B                | 19            |
| BR-V  | TTG           |                         | 24         | 2B                | 39            |
| V-S   |               |                         | 50         |                   |               |
| S-V   |               |                         | 25         |                   |               |

| COLOR | LEAD<br>DESIG | KS-<br>16671,L1<br>CONN | PIN<br>NO. | 914A<br>J<br>CONN | 914A<br>TERM. |
|-------|---------------|-------------------------|------------|-------------------|---------------|
| W-BL  | RG            |                         | 26         |                   | RG            |
| BL-W  | R1            |                         | 1          | 3A                | 28            |
| W-O   | RG            |                         | 27         |                   | RG            |
| O-W   | R2            |                         | 2          | 3A                | 23            |
| W-G   | RG            |                         | 28         |                   | RG            |
| G-W   | R3            |                         | 3          | 3A                | 25            |
| W-BR  | RG            |                         | 29         |                   | RG            |
| BR-W  | R4            |                         | 4          | 3A                | 26            |
| W-S   | RG            |                         | 30         |                   | RG            |
| S-W   | R5            |                         | 5          | 3A                | 20            |
| R-BL  | RG            |                         | 31         |                   | RG            |
| BL-R  | R6            |                         | 6          | 3A                | 21            |
| R-O   | RG            |                         | 32         |                   | RG            |
| O-R   | R7            |                         | 7          | 3A                | 32            |
| R-G   | RG            |                         | 33         |                   | RG            |
| G-R   | R8            |                         | 8          | 3A                | 30            |
| R-BR  | RG            |                         | 34         |                   | RG            |
| BR-R  | R9            |                         | 9          | 3A                | 29            |
| R-S   | RG            |                         | 35         |                   | RG            |
| S-R   | RG            |                         | 10         | 3A                | 34            |
| BK-BL | RG            |                         | 36         |                   | RG            |
| BL-BK | RX1           |                         | 11         | 3A                | 8             |
| BK-O  | RG            |                         | 37         |                   | RG            |
| O-BK  | RX2           |                         | 12         | 3A                | 22            |
| BK-G  | RG            |                         | 38         |                   | RG            |
| G-BK  | RX3           |                         | 13         | 3A                | 24            |
| BK-BR | RG            |                         | 39         |                   | RG            |
| BR-BK | RX4           |                         | 14         | 3A                | 27            |
| BK-S  | RG            |                         | 40         |                   | RG            |
| S-BK  | RX5           |                         | 15         | 3A                | 0             |
| Y-BL  | RG            |                         | 41         |                   | RG            |
| BL-Y  | RX6           |                         | 16         | 3A                | 1             |
| Y-O   | RG            |                         | 42         |                   | RG            |
| O-Y   | RX7           |                         | 17         | 3A                | 33            |
| Y-G   | RG            |                         | 43         |                   | RG            |
| G-Y   | RX8           |                         | 18         | 3A                | 31            |
| Y-BR  | RG            |                         | 44         |                   | RG            |
| BR-Y  | RX9           |                         | 19         | 3A                | 9             |
| Y-S   | RG            |                         | 45         |                   | RG            |
| S-Y   | RX0           |                         | 20         | 3A                | 14            |
| V-BL  | T             |                         | 46         | 3B                | 12            |
| BL-V  | R             |                         | 21         | 3B                | 13            |
| V-O   | LG            |                         | 47         |                   | LG            |
| O-V   | L             |                         | 22         | 3B                | 31            |
| V-G   | TD            |                         | 48         | 3A                | 16            |
| G-V   | J             |                         | 23         | 3B                | 34            |
| V-BR  | BY1           |                         | 49         | 3B                | 19            |
| BR-V  | TTG           |                         | 24         | 3B                | 39            |
| V-S   |               |                         | 50         |                   |               |
| S-V   |               |                         | 25         |                   |               |

DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

**SD-69608-01-B11**

**BELL TELEPHONE LABORATORIES**  
INCORPORATED

DWG SIZE  
**3S**  
PRINTED IN U.S.A.

0 1 2 3 4

0 1 2 3 4

**FS 13**  
CABLE DIAGRAM  
602A PANEL

DRAWING  
ISSUE

|    |
|----|
| 1  |
| 2D |
| 3A |

A

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| COLOR | LEAD<br>DESIG | KS-<br>16671,L1<br>CONN | PIN<br>NO. | 914A<br>J<br>CONN | 914A<br>TERM. | COLOR | LEAD<br>DESIG | KS-<br>16671,L1<br>CONN | PIN<br>NO. | 914A<br>J<br>CONN | 914A<br>TERM. |
|-------|---------------|-------------------------|------------|-------------------|---------------|-------|---------------|-------------------------|------------|-------------------|---------------|
| W-BL  | RG            |                         | 26         |                   | RG            | W-BL  | RG            |                         | 26         |                   | RG            |
| BL-W  | R1            |                         | 1          | 3A                | 28            | BL-W  | RX1           |                         | 1          | 3A                | 8             |
| W-O   | LG            |                         | 27         |                   | LG            | W-O   | LG            |                         | 27         |                   | LG            |
| O-W   | L1            |                         | 2          | 2A                | 28            | O-W   | LX1           |                         | 2          | 2A                | 8             |
| W-G   | RG            |                         | 28         |                   | RG            | W-G   | RG            |                         | 28         |                   | RG            |
| G-W   | R2            |                         | 3          | 3A                | 23            | G-W   | RX2           |                         | 3          | 3A                | 22            |
| W-BR  | LG            |                         | 29         |                   | LG            | W-BR  | LG            |                         | 29         |                   | LG            |
| BR-W  | L2            |                         | 4          | 2A                | 23            | BR-W  | LX2           |                         | 4          | 2A                | 22            |
| W-S   | RG            |                         | 30         |                   | RG            | W-S   | RG            |                         | 30         |                   | RG            |
| S-W   | R3            |                         | 5          | 3A                | 25            | S-W   | RX3           |                         | 5          | 3A                | 24            |
| R-BL  | LG            |                         | 31         |                   | LG            | R-BL  | LG            |                         | 31         |                   | LG            |
| BL-R  | L3            |                         | 6          | 2A                | 25            | BL-R  | LX3           |                         | 6          | 2A                | 24            |
| R-O   | RG            |                         | 32         |                   | RG            | R-O   | RG            |                         | 32         |                   | RG            |
| O-R   | R4            |                         | 7          | 3A                | 26            | O-R   | RX4           |                         | 7          | 3A                | 27            |
| R-G   | LG            |                         | 33         |                   | LG            | R-G   | LG            |                         | 33         |                   | LG            |
| G-R   | L4            |                         | 8          | 2A                | 26            | G-R   | LX4           |                         | 8          | 2A                | 27            |
| R-BR  | RG            |                         | 34         |                   | RG            | R-BR  | RG            |                         | 34         |                   | RG            |
| BR-R  | R5            |                         | 9          | 3A                | 20            | BR-R  | RX5           |                         | 9          | 3A                | 0             |
| R-S   | LG            |                         | 35         |                   | LG            | R-S   | LG            |                         | 35         |                   | LG            |
| S-R   | L5            |                         | 10         | 2A                | 20            | S-R   | LX5           |                         | 10         | 2A                | 0             |
| BK-BL | RG            |                         | 36         |                   | RG            | BK-BL | RG            |                         | 36         |                   | RG            |
| BL-BK | R6            |                         | 11         | 3A                | 21            | BL-BK | RX6           |                         | 11         | 3A                | 1             |
| BK-O  | LG            |                         | 37         |                   | LG            | BK-O  | LG            |                         | 37         |                   | LG            |
| O-BK  | L6            |                         | 12         | 2A                | 21            | O-BK  | LX6           |                         | 12         | 2A                | 1             |
| BK-G  | RG            |                         | 38         |                   | RG            | BK-G  | RG            |                         | 38         |                   | RG            |
| G-BK  | R7            |                         | 13         | 3A                | 32            | G-BK  | RX7           |                         | 13         | 3A                | 33            |
| BK-BR | LG            |                         | 39         |                   | LG            | BK-BR | LG            |                         | 39         |                   | LG            |
| BR-BK | L7            |                         | 14         | 2A                | 32            | BR-BK | LX7           |                         | 14         | 2A                | 33            |
| BK-S  | RG            |                         | 40         |                   | RG            | BK-S  | RG            |                         | 40         |                   | RG            |
| S-BK  | R8            |                         | 15         | 3A                | 30            | S-BK  | RX8           |                         | 15         | 3A                | 31            |
| Y-BL  | LG            |                         | 41         |                   | LG            | Y-BL  | LG            |                         | 41         |                   | LG            |
| BL-Y  | L8            |                         | 16         | 2A                | 30            | BL-Y  | LX8           |                         | 16         | 2A                | 31            |
| Y-O   | RG            |                         | 42         |                   | RG            | Y-O   | RG            |                         | 42         |                   | RG            |
| O-Y   | R9            |                         | 17         | 3A                | 29            | O-Y   | RX9           |                         | 17         | 3A                | 9             |
| Y-G   | LG            |                         | 43         |                   | LG            | Y-G   | LG            |                         | 43         |                   | LG            |
| G-Y   | L9            |                         | 18         | 2A                | 29            | G-Y   | LX9           |                         | 18         | 2A                | 9             |
| Y-BR  | RG            |                         | 44         |                   | RG            | Y-BR  | RG            |                         | 44         |                   | RG            |
| BR-Y  | R0            |                         | 19         | 3A                | 34            | BR-Y  | RX0           |                         | 19         | 3A                | 14            |
| Y-S   | LG            |                         | 45         |                   | LG            | Y-S   | LG            |                         | 45         |                   | LG            |
| S-Y   | L0            |                         | 20         | 2A                | 34            | S-Y   | LX0           |                         | 20         | 2A                | 14            |
| V-BL  | T             |                         | 46         | 3B                | 12            | V-BL  | BL1           |                         | 46         | 1A                | 28            |
| BL-V  | R             |                         | 21         | 3B                | 13            | BL-V  | BL2           |                         | 21         | 1A                | 23            |
| V-O   | LG            |                         | 47         |                   | LG            | V-O   | BL3           |                         | 47         | 1A                | 25            |
| O-V   | L,LA          |                         | 22         | 3B                | 31            | O-V   | BL4           |                         | 22         | 1A                | 26            |
| V-G   | TD            |                         | 48         | 3A                | 16            | V-G   | BL5           |                         | 48         | 1A                | 20            |
| G-V   | TTG           |                         | 23         | 3B                | 39            | G-V   | BL6           |                         | 23         | 1A                | 21            |
| V-BR  |               |                         | 49         |                   |               | V-BR  | BL7           |                         | 49         | 1A                | 32            |
| BR-V  |               |                         | 24         |                   |               | BR-V  | BL8           |                         | 24         | 1A                | 30            |
| V-S   |               |                         | 50         |                   |               | V-S   | BL9           |                         | 50         | 1A                | 29            |
| S-V   |               |                         | 25         |                   |               | S-V   | BL0           |                         | 25         | 1A                | 34            |

DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

BELL TELEPHONE LABORATORIES  
INCORPORATED

SD-69608-01-B12

DWG SIZE  
3S

PRINTED IN U.S.A.

0 1 2 3 4

# FS 14

CABLE DIAGRAM  
597A (MD) AND 597B PANELS

| JK | PIN NO. | PLUG | PIN NO. | COLOR | SEE NOTE | JK  | PIN NO. | PLUG | PIN NO. | COLOR | SEE NOTE | JK  | PIN NO. | PLUG | PIN NO. | COLOR | SEE NOTE | JK  | PIN NO. | PLUG | PIN NO. | COLOR | SEE NOTE |    |    |       |   |
|----|---------|------|---------|-------|----------|-----|---------|------|---------|-------|----------|-----|---------|------|---------|-------|----------|-----|---------|------|---------|-------|----------|----|----|-------|---|
| A  | 12      | P2   | 26      | W-BL  |          | J1  | 12      | P2   | 41      | Y-BL  |          | J9  | 12      | P4   | 29      | W-BR  |          | J13 | 12      | P4   | 41      | Y-BL  |          |    |    |       |   |
|    | 13      |      | 1       | BL-W  |          |     | 13      |      | 16      | BL-Y  |          |     | 13      |      | 4       | BR-W  |          |     | 13      |      | 16      | 42    | Y-O      |    |    |       |   |
|    | 16      |      | 27      | W-O   |          |     | 16      |      | 42      | Y-O   |          |     | 16      |      | 30      | W-S   |          |     | 16      |      | 17      | O-Y   | 1        | 16 | 43 | Y-G   | 2 |
|    |         |      | 2       | O-2   | 1        |     |         |      | 17      | O-Y   | 1        |     |         |      | 5       | S-W   | 1        |     |         |      | 18      | G-Y   |          |    | 18 | G-Y   |   |
| B  | 8       | P1   | 3       | G-W   |          | J6  | 8       | P1   | 18      | G-Y   |          | J9  | 8       | P3   | 6       | BL-R  |          | J13 | 8       | P3   | 18      | G-Y   |          |    |    |       |   |
|    | 14      |      | 26      | W-BL  |          |     | 14      |      | 41      | Y-BL  |          |     | 14      |      | 29      | W-BR  |          |     | 14      |      | 41      | Y-BL  |          | 14 | 16 | BL-Y  |   |
|    | 9       |      | 1       | BL-W  |          |     | 9       |      | 16      | BL-Y  |          |     | 9       |      | 4       | BR-R  |          |     | 9       |      | 42      | Y-O   | 3        | 9  | 17 | O-Y   | 4 |
|    |         |      | 27      | W-O   | 3        |     |         |      | 42      | Y-O   | 3        |     |         |      | 30      | W-S   | 3        |     |         |      | 43      | Y-G   | 4        |    | 43 | Y-G   | 4 |
| C  |         | P2   | 2       | O-W   | 4        | J2  |         | P2   | 43      | Y-G   | 4        | J7  |         | P4   | 31      | R-BL  | 4        | J10 |         | P4   | 46      | V-BL  | 2        |    |    |       |   |
|    |         |      | 28      | W-G   | 4        |     |         |      | 43      | Y-G   | 4        |     |         |      | 8       | G-R   | 1        |     |         |      | 20      | S-Y   | 1        |    | 20 | S-Y   | 1 |
|    | 1       |      | 3       | G-W   |          |     | 1       |      | 18      | G-Y   |          |     | 1       |      | 6       | BL-R  |          |     | 1       |      | 44      | Y-BR  |          | 1  | 46 | V-BL  | 2 |
|    |         |      | 31      | R-BL  | 2        |     |         |      | 46      | V-BL  | 2        |     |         |      | 9       | BR-R  | 2        |     |         |      | 44      | Y-BR  |          |    | 21 | BL-V  |   |
| D  | 14      | P1   | 29      | W-BR  |          | J3  | 14      | P1   | 44      | Y-BR  |          | J10 | 14      | P3   | 32      | R-O   |          | J14 | 14      | P3   | 44      | Y-BR  |          |    |    |       |   |
|    | 9       |      | 4       | BR-W  |          |     | 9       |      | 19      | BR-Y  |          |     | 9       |      | 7       | O-R   |          |     | 9       |      | 19      | BR-Y  |          | 9  | 19 | BR-Y  |   |
|    |         |      | 30      | W-S   | 3        |     |         |      | 45      | Y-S   | 3        |     |         |      | 33      | R-G   |          |     |         |      | 45      | Y-S   | 3        |    | 45 | Y-S   | 3 |
|    |         |      | 5       | S-W   | 4        |     |         |      | 20      | S-Y   | 4        |     |         |      | 8       | G-R   | 4        |     |         |      | 20      | S-Y   | 4        |    | 20 | S-Y   | 4 |
| E  |         | P2   | 31      | R-BL  | 4        | J4  |         | P2   | 46      | V-BL  | 4        | J11 |         | P4   | 34      | R-BR  | 4        | J14 |         | P4   | 46      | V-BL  | 4        |    |    |       |   |
|    | 1       |      | 6       | BL-R  |          |     | 1       |      | 21      | BL-V  |          |     | 1       |      | 9       | BR-R  |          |     | 1       |      | 21      | BL-V  |          | 1  | 21 | BL-V  |   |
|    | 12      |      | 32      | R-O   |          |     | 12      |      | 47      | V-O   |          |     | 12      |      | 35      | R-S   |          |     | 12      |      | 47      | V-O   |          | 12 | 47 | V-O   |   |
|    | 13      |      | 7       | O-R   |          |     | 13      |      | 22      | O-V   | 2        |     | 13      |      | 10      | S-R   |          |     | 13      |      | 22      | O-V   | 2        | 13 | 22 | O-V   | 2 |
| F  | 16      | P1   | 33      | R-G   | 1        | J5  | 16      | P1   | 48      | V-G   |          | J12 | 16      | P3   | 36      | BK-BL |          | J15 | 16      | P3   | 48      | V-G   |          |    |    |       |   |
|    |         |      | 8       | G-R   | 1        |     |         |      | 23      | G-V   | 2        |     |         |      | 11      | BL-BK | 1        |     |         |      | 23      | G-V   | 2        |    | 23 | G-V   | 2 |
|    | 8       |      | 9       | BR-R  |          |     | 8       |      | 49      | V-BR  |          |     | 8       |      | 37      | BK-O  | 2        |     | 8       |      | 49      | V-BR  |          | 8  | 49 | V-BR  |   |
|    | 14      |      | 7       | O-R   |          |     | 14      |      | 50      | V-S   |          |     | 14      |      | 12      | O-BK  |          |     | 14      |      | 50      | V-S   |          | 14 | 50 | V-S   |   |
| G  | 9       | P2   | 32      | R-O   |          | J6  | 9       | P2   | 25      | S-V   | 2        | J13 | 9       | P4   | 10      | S-R   |          | J16 | 9       | P4   | 25      | S-V   | 2        |    |    |       |   |
|    |         |      | 33      | R-G   | 3        |     |         |      | 47      | V-O   |          |     |         |      | 36      | BK-BL | 3        |     |         |      | 47      | V-O   |          |    | 47 | V-O   |   |
|    |         |      | 8       | G-R   | 4        |     |         |      | 22      | O-V   | 2        |     |         |      | 11      | BL-BK | 4        |     |         |      | 22      | O-V   | 2        |    | 22 | O-V   | 2 |
|    |         |      | 39      | R-BR  | 4        |     |         |      | 48      | V-G   |          |     |         |      | 37      | BK-O  | 4        |     |         |      | 48      | V-G   |          |    | 48 | V-G   |   |
| H  | 1       | P1   | 9       | BR-R  |          | J7  | 1       | P1   | 23      | G-V   | 2        | J14 | 1       | P3   | 12      | O-BK  |          | J17 | 1       | P3   | 23      | G-V   | 2        |    |    |       |   |
|    | 12      |      | 35      | R-S   |          |     | 12      |      | 49      | V-BR  |          |     | 12      |      | 12      | O-BK  |          |     | 12      |      | 23      | G-V   | 2        | 12 | 23 | G-V   | 2 |
|    | 13      |      | 10      | S-R   |          |     | 13      |      | 24      | BR-V  | 2        |     | 13      |      | 38      | BK-G  |          |     | 13      |      | 23      | G-V   | 2        | 13 | 49 | V-BR  |   |
|    | 16      |      | 36      | BK-BL |          |     | 16      |      | 26      | W-BL  |          |     | 16      |      | 13      | G-BK  |          |     | 16      |      | 49      | V-BR  |          | 16 | 24 | BR-V  | 2 |
| A  |         | P2   | 11      | BL-BK | 1        | J8  |         | P2   | 26      | W-BL  |          | J12 |         | P4   | 39      | BK-BR |          | J18 |         | P4   | 39      | BK-BR |          |    |    |       |   |
|    |         |      | 37      | BR-O  | 2        |     |         |      | 1       | BL-W  |          |     |         |      | 14      | BR-BK | 1        |     |         |      | 14      | BR-BK | 1        |    | 14 | BR-BK | 1 |
|    | 8       |      | 12      | O-BR  |          |     | 8       |      | 27      | W-O   |          |     | 8       |      | 40      | BK-S  | 2        |     | 8       |      | 15      | S-BK  |          | 8  | 40 | BK-S  | 2 |
|    | 14      |      | 35      | R-S   |          |     | 14      |      | 2       | O-W   | 1        |     | 14      |      | 38      | BK-G  |          |     | 14      |      | 13      | G-BK  |          | 14 | 38 | BK-G  |   |
| B  | 9       | P1   | 10      | S-R   |          | J9  | 9       | P1   | 3       | G-W   |          | J15 | 9       | P3   | 13      | G-BK  |          | J19 | 9       | P3   | 13      | G-BK  |          |    |    |       |   |
|    |         |      | 36      | BK-BL | 3        |     |         |      | 26      | W-BL  |          |     |         |      | 39      | BK-BR | 3        |     |         |      | 39      | BK-BR | 3        |    | 39 | BK-BR | 3 |
|    |         |      | 11      | BL-BK | 4        |     |         |      | 1       | BL-W  |          |     |         |      | 14      | BR-BK | 4        |     |         |      | 14      | BR-BK | 4        |    | 14 | BR-BK | 4 |
|    |         |      | 37      | BK-O  | 4        |     |         |      | 27      | W-O   | 3        |     |         |      | 40      | BR-S  | 4        |     |         |      | 40      | BR-S  | 4        |    | 40 | BR-S  | 4 |
| C  | 1       | P2   | 12      | O-BK  |          | J10 | 1       | P2   | 2       | O-W   | 4        | J16 | 1       | P4   | 15      | S-BK  |          | J20 | 1       | P4   | 15      | S-BK  |          |    |    |       |   |
|    |         |      | 38      | BK-G  |          |     |         |      | 28      | W-G   | 4        |     |         |      | 14      | BR-BK | 4        |     |         |      | 14      | BR-BK | 4        |    | 14 | BR-BK | 4 |
|    |         |      | 13      | G-BK  |          |     |         |      | 3       | G-W   |          |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |
|    |         |      | 39      | BK-BR |          |     |         |      | 3       | G-W   |          |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |
| D  | 14      | P1   | 14      | BR-BK | 1        | J11 | 14      | P1   | 27      | W-O   | 3        | J17 | 14      | P3   | 14      | BR-BK | 4        | J21 | 14      | P3   | 14      | BR-BK | 4        |    |    |       |   |
|    | 9       |      | 13      | G-BK  |          |     |         |      | 2       | O-W   | 4        |     |         |      | 14      | BR-S  | 4        |     |         |      | 14      | BR-S  | 4        |    | 14 | BR-S  | 4 |
|    |         |      | 39      | BK-BR | 3        |     |         |      | 28      | W-G   | 4        |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |
|    |         |      | 40      | BK-S  | 2        |     |         |      | 3       | G-W   |          |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |
| E  | 8       | P2   | 15      | S-BK  |          | J12 | 8       | P2   | 3       | G-W   |          | J18 | 8       | P4   | 38      | BK-G  |          | J22 | 8       | P4   | 38      | BK-G  |          |    |    |       |   |
|    | 14      |      | 38      | BK-G  |          |     |         |      | 26      | W-BL  |          |     |         |      | 39      | BK-BR | 3        |     |         |      | 39      | BK-BR | 3        |    | 39 | BK-BR | 3 |
|    | 9       |      | 13      | G-BK  |          |     |         |      | 1       | BL-W  |          |     |         |      | 14      | BR-BK | 4        |     |         |      | 14      | BR-BK | 4        |    | 14 | BR-BK | 4 |
|    |         |      | 39      | BK-BR | 3        |     |         |      | 27      | W-O   | 3        |     |         |      | 40      | BR-S  | 4        |     |         |      | 40      | BR-S  | 4        |    | 40 | BR-S  | 4 |
| F  | 1       | P1   | 15      | S-BK  |          | J13 | 1       | P1   | 2       | O-W   | 4        | J19 | 1       | P3   | 15      | S-BK  |          | J23 | 1       | P3   | 15      | S-BK  |          |    |    |       |   |
|    |         |      | 40      | BK-S  | 4        |     |         |      | 28      | W-G   | 4        |     |         |      | 14      | BR-S  | 4        |     |         |      | 14      | BR-S  | 4        |    | 14 | BR-S  | 4 |
|    |         |      | 15      | S-BK  |          |     |         |      | 3       | G-W   |          |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |
|    |         |      | 40      | BK-S  | 4        |     |         |      | 3       | G-W   |          |     |         |      | 15      | S-BK  |          |     |         |      | 15      | S-BK  |          |    | 15 | S-BK  |   |

- NOTES:
1. CONNECT TO (A1) MULTIPLE.
  2. CONNECT TO (LG) MULTIPLE.
  3. CONNECT TO TERMINAL OF OPTION FIELD (FS11) ON ROW CORRESPONDING TO NUMBER OF ASSOCIATED JACKS.
  4. CONNECT TO (RG) MULTIPLE.

DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

**SD-69608-01-B13**

**BELL TELEPHONE LABORATORIES**  
INCORPORATED

35

DRAWING ISSUE

ISSUE

# FS 15

CABLE DIAGRAM  
598A (MD) AND 598B PANELS

DRAWING  
ISSUE

| COLOR | LEAD DESIG | KS-16671, L1 CONN | PIN NO. | 914A CONN   | 914A TERM. | COLOR | LEAD DESIG | KS-16671, L1 CONN | PIN NO. | 914A CONN   | 914A TERM. |
|-------|------------|-------------------|---------|-------------|------------|-------|------------|-------------------|---------|-------------|------------|
| BL-W  | R          |                   | 1       |             | 9          | BL-W  |            |                   | 1       |             | 13         |
| W-BL  | T          |                   | 26      |             | 14         | W-BL  |            |                   | 26      |             | 12         |
| O-W   |            |                   | 2       |             | 19         | O-W   | A1         |                   | 2       |             | XXX        |
| W-O   |            |                   | 27      |             | 0          | W-O   |            |                   | 27      |             | 16         |
| G-W   |            |                   | 3       |             | 1          | G-W   |            |                   | 3       |             | 8          |
| W-G   | RG         |                   | 28      |             | XX         | W-G   | LG         |                   | 28      |             | X          |
| BR-W  |            |                   | 4       |             | 21         | BR-W  |            |                   | 4       |             | 36         |
| W-BR  |            |                   | 29      | 1,4,7,10,13 | 20         | W-BR  |            |                   | 29      | 1,4,7,10,13 | 35         |
| S-W   |            |                   | 5       |             | 23         | S-W   |            |                   | 5       |             | 39         |
| W-S   |            |                   | 30      |             | 22         | W-S   |            |                   | 30      |             | 37         |
| BL-R  |            |                   | 6       |             | 27         | BL-R  |            |                   | 6       |             | 26         |
| R-BL  |            |                   | 31      |             | 25         | R-BL  |            |                   | 31      |             | 24         |
| O-R   |            |                   | 7       |             | 31         | O-R   |            |                   | 7       |             | 30         |
| R-O   |            |                   | 32      |             | 29         | R-O   |            |                   | 32      |             | 28         |
| G-R   |            |                   | 8       |             | 38         | G-R   |            |                   | 8       |             | 34         |
| R-G   |            |                   | 33      |             | 33         | R-G   |            |                   | 33      |             | 32         |
| BR-R  |            |                   | 9       |             | 9          | BR-R  |            |                   | 9       |             | 13         |
| R-BR  |            |                   | 34      |             | 14         | R-BR  |            |                   | 34      |             | 12         |
| S-R   |            |                   | 10      |             | 19         | S-R   | A1         |                   | 10      |             | XXX        |
| R-S   |            |                   | 35      |             | 0          | R-S   |            |                   | 35      |             | 16         |
| BL-BK |            |                   | 11      |             | 1          | BL-BK |            |                   | 11      |             | 8          |
| BK-BL | RG         |                   | 36      |             | XX         | BK-BL | LG         |                   | 36      |             | X          |
| O-BK  |            | 1,3,5,7,9         | 12      |             | 21         | O-BK  |            | 2,4,6,8,10        | 12      |             | 36         |
| BK-O  |            |                   | 37      | 2,5,8,11,14 | 20         | BK-O  |            |                   | 37      | 2,5,8,11,14 | 35         |
| G-BK  |            |                   | 13      |             | 23         | G-BK  |            |                   | 13      |             | 39         |
| BK-G  |            |                   | 38      |             | 22         | BK-G  |            |                   | 38      |             | 37         |
| BR-BK |            |                   | 14      |             | 27         | BR-BK |            |                   | 14      |             | 26         |
| BK-BR |            |                   | 39      |             | 25         | BK-BR |            |                   | 39      |             | 24         |
| S-BK  |            |                   | 15      |             | 31         | S-BK  |            |                   | 15      |             | 30         |
| BK-S  |            |                   | 40      |             | 29         | BK-S  |            |                   | 40      |             | 28         |
| BL-Y  |            |                   | 16      |             | 38         | BL-Y  |            |                   | 16      |             | 34         |
| Y-BL  |            |                   | 41      |             | 33         | Y-BL  |            |                   | 41      |             | 32         |
| O-Y   |            |                   | 17      |             | 9          | O-Y   |            |                   | 17      |             | 13         |
| Y-O   |            |                   | 42      |             | 14         | Y-O   |            |                   | 42      |             | 12         |
| G-Y   |            |                   | 18      |             | 19         | G-Y   | A1         |                   | 18      |             | XXX        |
| Y-G   |            |                   | 43      |             | 0          | Y-G   |            |                   | 43      |             | 16         |
| BR-Y  |            |                   | 19      |             | 1          | BR-Y  |            |                   | 19      |             | 8          |
| Y-BR  | RG         |                   | 44      |             | XX         | Y-BR  | LG         |                   | 44      |             | X          |
| S-Y   |            |                   | 20      |             | 21         | S-Y   |            |                   | 20      |             | 36         |
| Y-S   |            |                   | 45      |             | 20         | Y-S   |            |                   | 45      |             | 35         |
| BL-V  |            |                   | 21      | 3,6,9,12,t  | 23         | BL-V  |            |                   | 21      | 3,6,9,12,t  | 39         |
| V-BL  |            |                   | 46      |             | 22         | V-BL  |            |                   | 46      |             | 37         |
| O-V   |            |                   | 22      |             | 27         | O-V   |            |                   | 22      |             | 26         |
| V-O   |            |                   | 47      |             | 25         | V-O   |            |                   | 47      |             | 24         |
| G-V   |            |                   | 23      |             | 31         | G-V   |            |                   | 23      |             | 30         |
| V-G   |            |                   | 48      |             | 29         | V-G   |            |                   | 48      |             | 28         |
| BR-V  |            |                   | 24      |             | 38         | BR-V  |            |                   | 24      |             | 34         |
| V-BR  |            |                   | 49      |             | 33         | V-BR  |            |                   | 49      |             | 32         |
| S-V   |            |                   | 25      |             | XXXX       | S-V   |            |                   | 25      |             | XXXX       |
| V-S   |            |                   | 50      |             | XXXX       | V-S   |            |                   | 50      |             | XXXX       |

\* LG MULTIPLE  
 \*\* RG MULTIPLE  
 \*\*\* A1 MULTIPLE  
 \*\*\*\* SPARE  
 † THIS GROUP OF LEADS IS SPARE FOR AMPHENOL CONNECTORS 9 & 10.

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DIAL INTERCOMMUNICATING  
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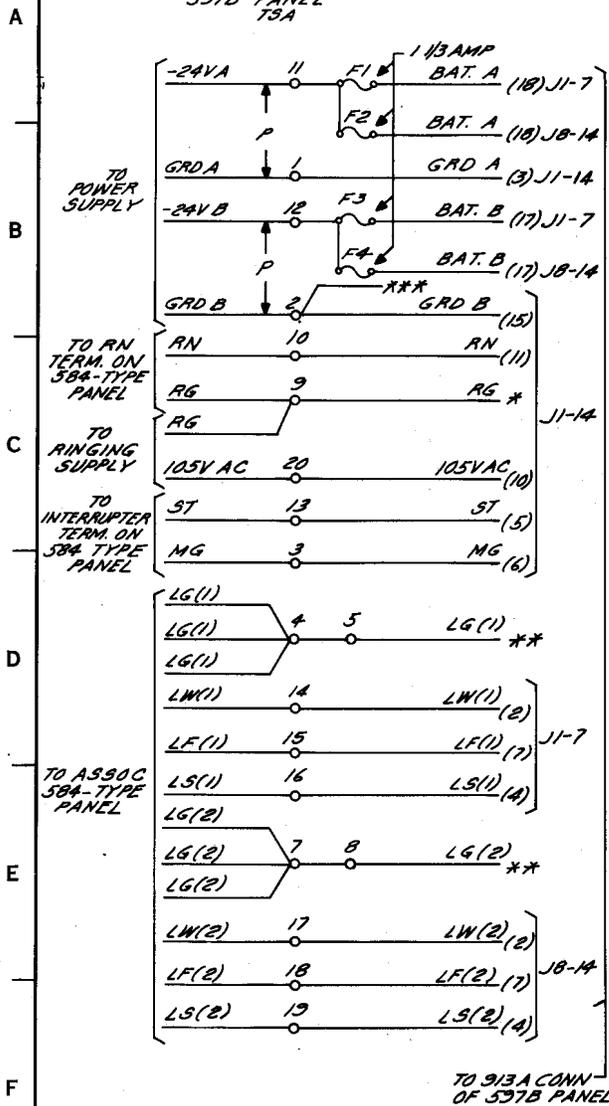
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### FS 16

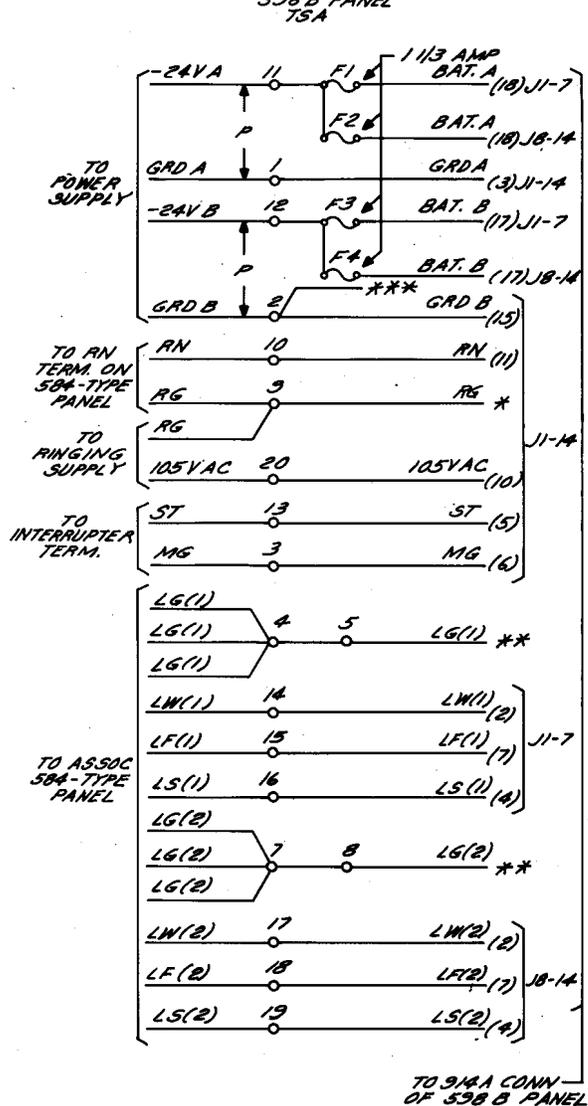
SIGNALING AND POWER CKT FOR  
597B PANEL  
73A

### FS 17

SIGNALING AND POWER CKT FOR  
598B PANEL  
73A



\* TO RG MULTIPLE  
\*\* TO LG MULTIPLE  
\*\*\* TO AI MULTIPLE



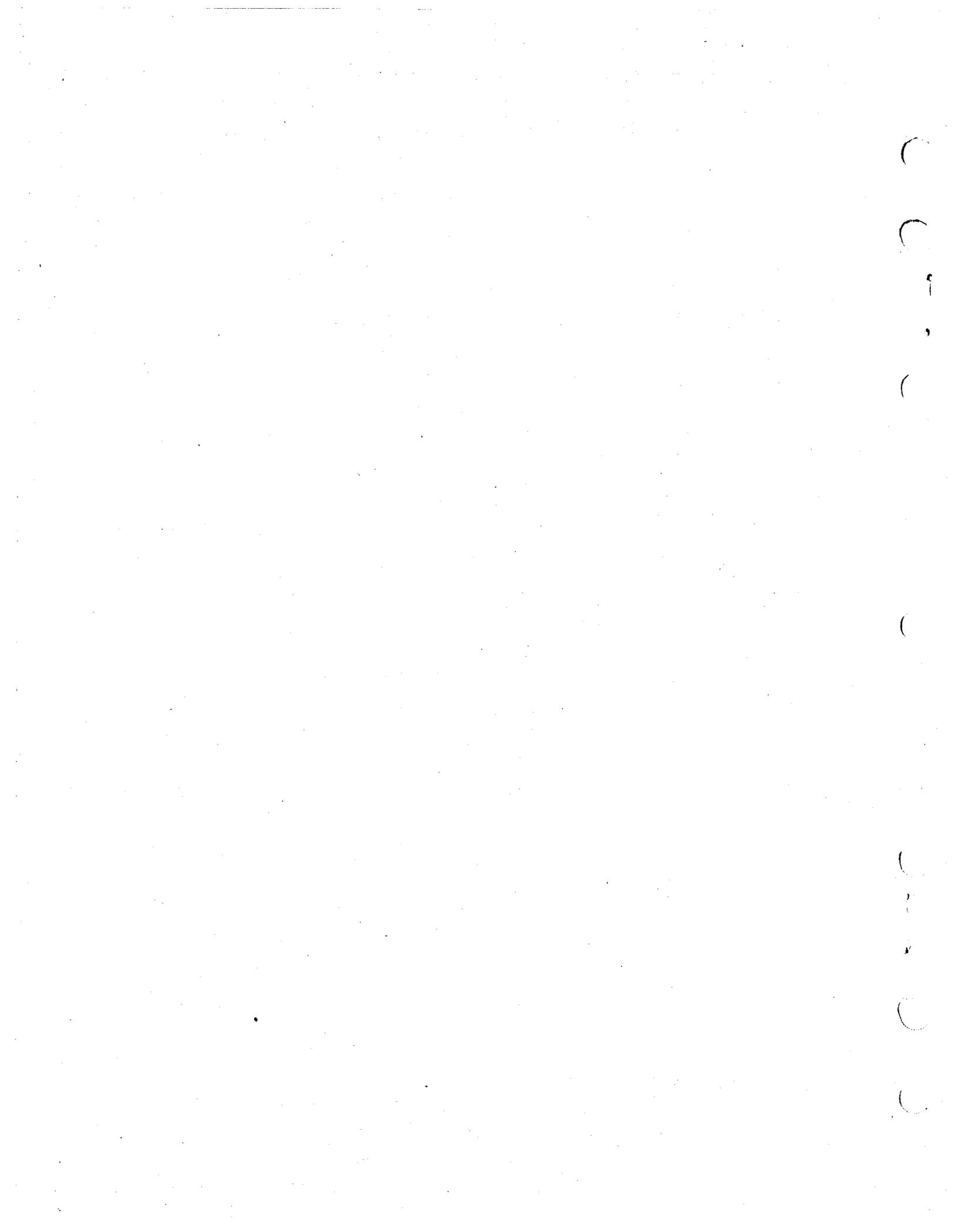
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DIAL INTERCOMMUNICATING AND MISCELLANEOUS PANELS

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**APP FIG. 1**

| <u>CONNECTOR</u> |            |             |
|------------------|------------|-------------|
| <u>DESIG</u>     | <u>LOC</u> | <u>CODE</u> |
| J1A              | 1A0        | 914A        |
| J1B              | 1A3        |             |
| J2A              | 2A0        |             |
| J2B              | 2A2        |             |
| J3A              | 3A0        |             |
| J3B              | 3A2        |             |

| <u>FUSE</u>  |            |             |
|--------------|------------|-------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u> |
| F1           | 1C3        | 24E         |
| F2           | 1A3        | 24C         |
| F3           | 2C3        | 24E         |
| F4           | 2A3        | 24C         |
| F5           | 3C3        | 24E         |
| F6           | 3A3        | 24C         |

| <u>PLUG</u>  |            |              |
|--------------|------------|--------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u>  |
| P1           | 1100       | KS-16671, L1 |
| P2           | 1102       | KS-16671, L1 |
| P3           | 1103       | KS-16671, L1 |

**APP FIG. 2**

| <u>CONNECTOR</u> |            |             |
|------------------|------------|-------------|
| <u>DESIG</u>     | <u>LOC</u> | <u>CODE</u> |
| J1A              | 4A0        | 914A        |
| J1B              | 4A2        |             |
| J2A              | 5A0        |             |
| J2B              | 5A3        |             |
| J3A              | 6A1        |             |
| J3B              | 6A2        |             |

| <u>FUSE</u>  |            |             |
|--------------|------------|-------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u> |
| F1           | 4C3        | 24G         |
| F2           | 4C3        | 24G         |
| F3           | 4A3        | 24E         |
| F4           | 6A3        | 24E         |
| F5           | 6B3        | 24C         |

| <u>PLUG</u>  |            |              |
|--------------|------------|--------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u>  |
| P1           | 1200       | KS-16671, L1 |
| P2           | 1202       | KS-16671, L1 |

**APP FIG. 3**

| <u>CONNECTOR</u> |            |             |
|------------------|------------|-------------|
| <u>DESIG</u>     | <u>LOC</u> | <u>CODE</u> |
| J1A              | 7A0        | 914A        |
| J1B              | 7A2        |             |
| J2A              | 8A0        |             |
| J2B              | 8A2        |             |
|                  |            |             |

**APP FIG. 4**

| <u>CONNECTOR</u> |            |             |
|------------------|------------|-------------|
| <u>DESIG</u>     | <u>LOC</u> | <u>CODE</u> |
| [5] J1-J5        | 13A0-H0    | 913A        |
| [3] J6-J8        | 13B1-F1    |             |
| [4] J9-J12       | 13B2-F2    |             |
| J13, J14         | 13B3, C3   |             |

| <u>FUSE</u>  |            |             |
|--------------|------------|-------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u> |
| F1           | 9A1        | 24G         |
| F2           | 9A1        | 24G         |
| F3           | 9B1        | 24G         |
| F4           | 9B1        | 24G         |

| <u>PLUG</u>  |            |              |
|--------------|------------|--------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u>  |
| P1           | 13B0       | KS-16671, L1 |
| P2           | 13A0       | KS-16671, L1 |
| P3           | 13G1       | KS-16671, L1 |
| P4           | 13F1       | KS-16671, L1 |

**APP FIG. 5**

| <u>CONNECTOR</u> |            |             |
|------------------|------------|-------------|
| <u>DESIG</u>     | <u>LOC</u> | <u>CODE</u> |
| J1, 4, 7, 10, 13 | 14B1       | 914A        |
| J2, 5, 8, 11, 14 | 14D1       | 914A        |
| J3, 6, 9, 12     | 14F1       | 914A        |

| <u>FUSE</u>  |            |             |
|--------------|------------|-------------|
| <u>DESIG</u> | <u>LOC</u> | <u>CODE</u> |
| F1           | 9A3        | 24G         |
| F2           | 9A3        | 24G         |
| F3           | 9B3        | 24G         |
| F4           | 9B3        | 24G         |

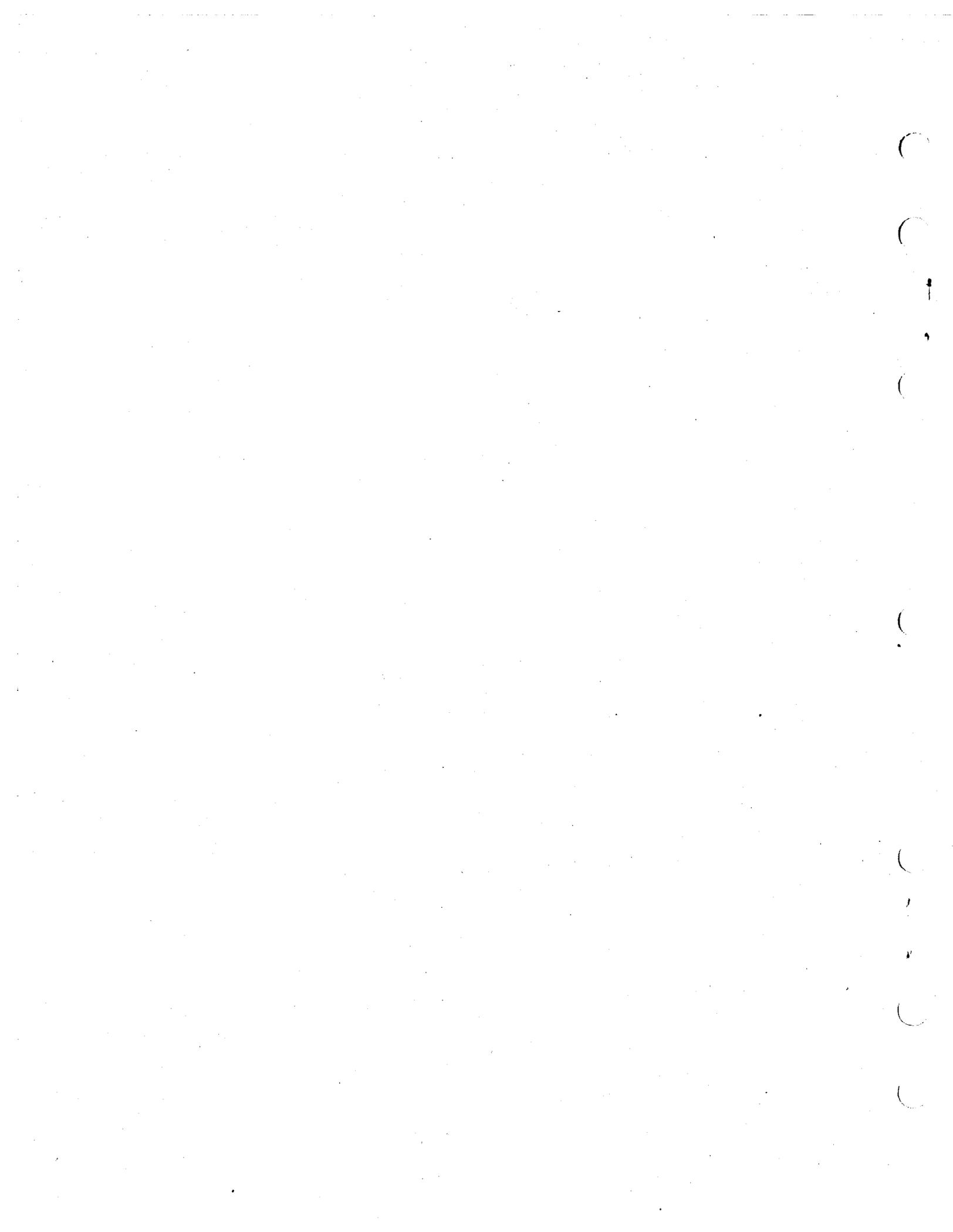
| <u>PLUG</u>     |            |              |
|-----------------|------------|--------------|
| <u>DESIG</u>    | <u>LOC</u> | <u>CODE</u>  |
| J1, 3, 5, 7, 9  | 14B0       | KS-16671, L1 |
| J2, 4, 6, 8, 10 | 14D2       | KS-16671, L1 |

DIAL INTERCOMMUNICATIONS  
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SD-69608-01-C1

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CIRCUIT NOTES:

|                |       |               |           |         |
|----------------|-------|---------------|-----------|---------|
| 101.           | DESIG | FUSE AMP      | POTENTIAL | ONE PER |
|                |       |               |           |         |
| BATTERY SYMBOL |       | VOLTAGE RANGE |           |         |
| -24            |       | 20-26 V       |           |         |

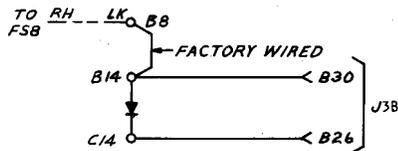
| 102. | FEATURE OR OPTION                                 | PROVIDE              |            |          |
|------|---|----------------------|------------|----------|
|      |   | APP FIG.             | APP OR WRG | QUANTITY |
|      | 601A PANEL  | 1                    |            |          |
|      | 602A PANEL  | 2                    |            |          |
|      | 603 PANEL   | 3                    |            |          |
|      | 597A (MD) AND 597B PANELS                         | 4                    |            |          |
|      | 598A (MD) AND 598B PANELS                         | 5                    |            |          |
|      | TOUCH TONE DIAL STATION                           | WITHOUT              | Z•         |          |
|      |   | WITH                 | N          |          |
|      | LINE-LAMP   | STEADY               | W          |          |
|      |   | FLASHING             | USING 424A | V        |
|      |   |                      | USING 407B | H•       |
|      | DIAL TONE   |                      | T•         |          |
|      | AUDIBLE RINGBACK TONE                             |                      | S•         |          |
|      | STATION BUSY TONE (SEE NOTE 107)                  |                      | R          |          |
|      | * 414A OR 416A KTU                                |                      | G          |          |
|      | TYPE OF AUDIBLE SIGNAL                            | SINGLE SPURT RINGING | RINGER     | M        |
|      |   | DC BUZZER OR BELL    |            | K        |
|      |   | AC BUZZER OR BELL    |            | J        |
|      |   | INTERRUPTED          |            | X•       |
|      | INTERRUPTED WITH STATION BUSY TONE (SEE NOTE 107) |                      | R          |          |
|      | INTERCOM SERVICE PROVIDED BY 407B KTU             |                      | F•         |          |

\* APPLY G OPTION ONLY TO THE O TERMINAL OF THE JACK(S) EQUIPPED WITH A 414A OR 416A KTU IN THE 597A (MD) OR 597B PANEL.  
 • FACTORY WIRED OPTIONS

| 103. RECORD OF APP FIGURES, WIRING, AND APPARATUS CHANGES |                               |                      |          |                |     |    |
|---|-------------------------------|----------------------|----------|----------------|-----|----|
| CHANGED ON ISS  | IF JOB RECORDS DO NOT SPECIFY | THIS OPTION WAS FURN | SEE NOTE | USE IN CIRCUIT |     |    |
|   |                               |                      |          | STD            | A&M | MD |
| 3A  |                               |                      |          | F              |     |    |
|   |                               |                      |          |                |     |    |
|   |                               |                      |          |                |     |    |
|   |                               |                      |          |                |     |    |

CIRCUIT NOTES: (CONT)

104. WHEN ADDING DIAL TONE (T OPTION) TO A SYSTEM EQUIPPED FOR TOUCH-TONE (426A AND 427A KTU'S) A 400J DIODE MUST BE INSERTED BETWEEN THE RH AND LK LEADS ON THE 407B OR 424A KTU. WIRE AS FOLLOWS:



105. CONNECT TERMINALS B11 AND C11 TO TERMINAL B12 WHEN A 407B KTU IS PROVIDED. WHEN A 424A KTU IS PROVIDED, CONNECT J1 LEAD OF 422B KTU ASSOCIATED WITH UNITS GROUP TO J2 LEAD OF 422B KTU ASSOCIATED WITH TENS GROUP.

106. PROVIDE GROUND TO INTERRUPTER FOR AUDIBLE AND BUSY TONES.

107. STATION BUSY TONE IS NOT RECOMMENDED FOR USE WITH SINGLE SPURT RINGING.

DRAWING

ISSUE  
1  
2D  
3A

ISSUE  
4A1(C)

|   |  |                |                   |
|---|--|----------------|-------------------|
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0 1 2 3 4

DRAWING  
ISSUE

1

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:  
RESISTANCE VALUES ARE IN OHMS,  
CAPACITANCE VALUES ARE IN MICROFARADS,  
VALUES PRECEDED BY THE SYMBOL + (PLUS)  
OR - (MINUS) ARE IN VOLTS.

A

A

B

B

C

C

D

D

E

E

F

F

G

G

H

H

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0 1 2 3 4

INFORMATION NOTES. (CONT)

302.

LEAD DESIGNATIONS OF 4 INCH KTU'S USED IN PANELS

|    | 400D    | 401A | 404A     | 413A  | 414A    | 415A    | 416A    | 417A  | 418A    | 420A     | 421A     | 422B | 423A (HD) | 423B* | 428A  | 429A (MD) | 429B  | 430A | 448A     | 449A       | 461A    |       |
|----|---------|------|----------|-------|---------|---------|---------|-------|---------|----------|----------|------|-----------|-------|-------|-----------|-------|------|----------|------------|---------|-------|
| 0  |         |      |          |       | RG      |         | RG      | T(1)  | RC2     |          |          |      |           |       |       |           |       |      |          |            |         |       |
| 1  | RC      | SP3  | CA       | PC    | RC      | RC      | RC      |       | RC1     | TTG      | GB       | J1   | ±18V      | RH    | S     | FL        | FL    |      | L1       | +B         | RC      |       |
| 2  | LW      |      |          |       |         | LW      |         |       |         |          |          |      |           |       |       |           |       |      |          |            |         |       |
| 3  |         | +A   |          |       | +A      | +A      | +A      |       | +A      | +A       |          |      |           |       |       |           |       |      |          |            | +A      |       |
| 4  | ±10V    | ±10V |          |       | ±10V    | ±10V    | ±10V    | ±10V  | ±10V    |          |          |      |           |       | ±10V  |           |       | ±10V | ±10V     | ±10V       | ±10V    |       |
| 5  | ST      |      |          |       | ST      | ST      | ST      |       | ST      |          |          |      |           |       |       |           |       |      |          |            | ST      |       |
| 6  | MG      |      |          |       | MC      | MG      | MG      |       | MG      |          |          |      |           |       |       |           |       |      |          |            | LGMG    |       |
| 7  | LF      |      |          |       | LF      | LF      | LF      |       | LF      |          |          |      |           |       | LF    |           |       |      |          |            | LF      |       |
| 8  | L       | L    | R1 OR BZ | SP4   | L       | L       | L       | L     | LP1     | RG       | RC(1)    | Y1   | BL        | BL    | EL    | A(2)      | A(2)  | LG   |          |            | L       |       |
| 9  | R(CO)   | SP2  | R1 OR BZ | R     | R(CO)   | R(CO)   | R(CO)   | R(CO) | R(CO)   | R(CO)    | R(1)     | BR   | BY1       | BY1   | R(1)  | LS(1)     | LS(1) |      |          |            | L(P2)   | R     |
| 10 | ±105V   |      |          | ±105V | ±105V   | ±105V   | ±105V   |       | ±105V   | ±105V    |          |      | ±105V     |       |       |           |       |      |          | ±105V      |         | ±105V |
| 11 | RN      |      |          | RN    | RN      | RN      | RN      |       | RN      |          |          |      | RN        | RN    |       |           |       |      |          |            | RN      | RN    |
| 12 | T (STA) | T    | R1 OR BZ | SP1   | T (STA) | T (STA) | T (STA) | T (2) | T (STA) | T (STA)  | B-B1 (1) |      | T         | T     | ET(1) | A(1)      | A(1)  | FLST | B(P2)    | B-RG (P2)  | T (STA) |       |
| 13 | R (STA) | R    | R1 OR BZ | SP2   | R (STA) | R (STA) | R (STA) | R (2) | R (STA) | R (STA)  | R-R1 (1) |      | SS        | SS    | ER(1) | L(1)      | L(1)  |      | R(P2)    | R-RC (P2)  | R (STA) |       |
| 14 | T(CO)   | SP1  | CA       | T     | T(CO)   | T(CO)   | T(CO)   | T(CO) | T(CO)   | T(CO)    | T(1)     | BL   | LK        | LK    | T(1)  | A(1)      | A(1)  |      | C(2)     | S(P2)      | T       |       |
| 15 | +B      |      |          | +B    | +B      | +B      | +B      | +B    | +B      | +B       |          |      | +B        | +B    | +B    | +B        | +B    |      | +R       | +B         | +B      | +B    |
| 16 | A       | A    | CA       | SP3   | -A      | A       | S       | A2    | S       | R (1-XO) | RG (1)   |      | J         | J     | EA(1) |           |       | SP   | L (AT1)  | C1         | S       |       |
| 17 | -B      | -B   |          |       | -B      | -B      | -B      | -B    | -B      | -B       | -B       | -B   | -B        | -B    | -B    | -B        | -B    | -B   | -B       | -B         | -B      | -B    |
| 18 |         | -A   |          |       | -A      | -A      | -A      | -A    | -A      | -A       |          |      |           |       |       |           |       |      |          |            |         | -A    |
| 19 |         |      |          |       | X       | X       | R1      | LP2   |         |          |          |      | BT1       | BT1   | CA1   | A(2)      | A(2)  | FL2  | R(1)     | R-RC       |         |       |
| 20 |         |      |          |       |         |         |         |       |         | T(2)     | BL5      |      |           |       | T(2)  | LS(2)     | LS(2) |      | B (AT1)  | B-RG (AT1) |         |       |
| 21 |         |      |          |       |         |         |         |       |         | R(2)     | BL6      |      |           |       | R(2)  | PC(1)     | PC(1) |      | R (AT1)  | R-RC (AT1) |         |       |
| 22 |         |      |          |       |         |         |         |       |         | RC(2)    | Y2       |      |           |       | A(2)  | PC(2)     | PC(2) |      | RC (AT2) |            |         |       |
| 23 |         |      |          |       |         |         |         |       |         | RG(2)    | BL2      |      |           |       | CA2   |           |       |      | R (AT2)  | R-RC (AT2) |         |       |
| 24 |         |      |          |       |         |         |         | T(2)  |         | R(3)     | Y3       |      |           |       |       |           |       |      | B (P1)   | B-RG (P1)  |         |       |
| 25 |         |      |          |       |         |         |         | R(2)  |         | RC(3)    | BL3      |      |           |       |       |           |       |      | R (P1)   | R-RC (P1)  |         |       |
| 26 |         |      |          |       |         |         |         | A(2)  |         | T(3)     | BL4      |      |           |       |       |           |       |      | RC (AT1) | L (AT1)    |         |       |
| 27 |         |      |          |       |         |         |         | B(2)  |         | RG(3)    | Y4       |      |           |       |       |           |       |      | L(AT2)   | C(2)       |         |       |
| 28 |         |      |          |       |         |         |         | T(1)  |         |          | BL1      |      |           |       |       |           |       |      | RC(P1)   |            |         |       |
| 29 |         |      |          |       |         |         |         | R(1)  |         |          | BL9      |      |           |       |       |           |       |      | RC (PA1) |            |         |       |
| 30 |         |      |          |       |         |         |         | A(1)  |         |          | BL8      |      |           |       |       |           |       |      |          | L(P1)      |         |       |
| 31 |         |      |          |       |         |         |         |       |         |          | J3       |      |           |       |       |           |       |      | RC(1)    | L(1)       |         |       |
| 32 |         |      |          |       |         |         |         | BL(1) |         |          | BL7      |      |           |       |       |           |       |      | B (AT2)  | B-RG (AT2) |         |       |
| 33 |         |      |          |       |         |         |         | BL(2) |         |          | J2       |      |           |       |       |           |       |      | RC(2)    | L(2)       |         |       |
| 34 |         |      |          |       |         |         |         |       |         |          | BLO      |      |           |       |       |           |       |      | R(2)     | R(2)-RC(2) |         |       |
| 35 |         |      |          |       |         |         |         |       |         |          |          |      |           |       |       |           |       |      | RC (P2)  | L (AT2)    |         |       |
| 36 |         |      |          |       |         |         |         |       |         |          |          |      |           |       |       |           |       |      | RC (PA2) |            |         |       |
| 37 |         |      |          |       |         |         |         | B(1)  |         |          |          |      |           |       |       |           |       |      | L(P2)    | LC(2)      | +B      |       |
| 38 |         |      |          |       |         |         |         |       |         |          |          |      |           |       |       |           |       |      |          | T(2)-RG    |         |       |
| 39 |         |      |          |       |         |         |         | B(2)  |         |          |          |      |           |       |       |           |       |      |          | C1         | S(P1)   |       |

\* THE 423B CAN BE CONTROLLED BY EITHER NEGATIVE VOLTAGE POTENTIALS OR BY GROUND SIGNALS, BUT NOT BOTH AT THE SAME TIME. TO REPLACE A 423A KTU, REMOVE FACTORY PROVIDED STRAPPING ON 423B KTU. THEN STRAP TERMINALS E1 TO E3 AND ADD REQUIRED OPTION STRAPPING.

DIAL INTERCOMMUNICATING  
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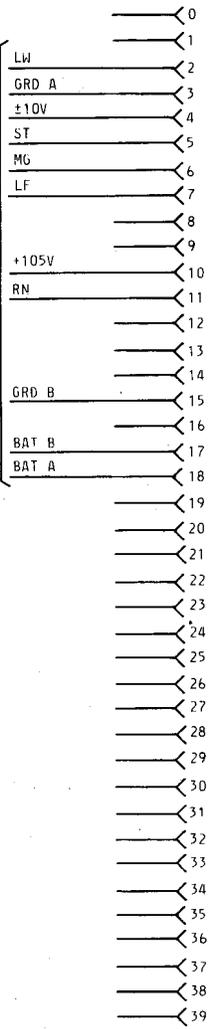
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INFORMATION NOTES: (CONT)

303.

LEAD DESIGNATIONS OF 8 INCH KTU'S USED IN PANELS

| POSITION A |       |       |      |      | POSITION B |      |      |      |      |
|------------|-------|-------|------|------|------------|------|------|------|------|
| 407A       | 424A  | 425A  | 426A | 427A | 407A       | 424A | 425A | 426A | 427A |
|            | RX5   | LX5   |      |      | FC1        | FC1  | FC1  |      |      |
|            | RX6   | LX6   |      |      | FC3        | FC3  | FC3  |      |      |
|            |       |       |      |      |            |      |      |      |      |
|            |       |       |      |      | +A         | +A   |      |      |      |
|            |       |       |      |      | ±10V       | ±10V |      |      |      |
|            |       | ST    |      |      |            |      |      |      |      |
|            |       | MG    |      |      |            |      |      |      |      |
|            |       |       |      |      | LF         | LF   |      |      |      |
|            |       |       |      |      |            |      |      |      |      |
|            | RX1   | LX1   |      |      |            |      |      |      |      |
|            | RX9   | LX9   |      |      |            |      |      |      |      |
|            |       |       |      |      |            |      |      |      |      |
|            |       |       |      |      | T          | T    |      | T    |      |
|            |       |       |      |      | R          | R    |      | R    |      |
|            |       |       |      |      | SS         | SS   |      |      |      |
|            |       |       |      |      |            |      |      |      |      |
|            |       |       |      |      | D1         | D1   | D1   |      |      |
|            |       |       |      |      | -B         | -B   |      |      |      |
|            |       |       |      |      | -A         | -A   |      | -A   | A    |
|            | PS1   | RS2   |      |      | BY1        | BY1  | BY1  |      | XY   |
|            | R5    | R5    | L5   |      | FC2        | FC2  | FC2  |      | PP   |
|            | R6    | R6    | L6   |      | CG         | CG   |      |      | CG   |
|            |       | RX2   | LX2  |      | Y3         | Y3   | LC3  |      | Y3   |
|            | R7    | R2    | L2   |      |            |      |      |      |      |
|            |       | RX3   | LX3  |      | Y2         | Y2   | LC2  |      | Y2   |
|            | R3    | R3    | L3   |      | Y1         | Y1   | LC1  |      | Y1   |
|            | R4    | R4    | L4   |      | RH         | RH   |      |      | RH   |
|            |       | RX4   | LX4  |      | AL2        | AL2  | AL2  | LB   | LB   |
|            | R1    | R1    | L1   |      | AL1        | AL1  | AL1  | HB   | HB   |
|            | R9    | R9    | L9   |      |            |      |      |      |      |
|            | R8    | R8    | L8   |      | LK         | LK   |      |      |      |
|            |       | RX8   | LX8  |      | L,LA       | L,LA | LA   |      |      |
|            | R7    | R7    | L7   |      |            |      |      |      |      |
|            |       | RX7   | LX7  |      |            |      |      |      |      |
|            | R0    | R0    | L0   | H1   | H1         |      |      |      |      |
|            |       | LT1   | LT1  |      | Y4         |      |      |      |      |
|            | Y4,LR | Y4,LR | LC4  |      | Y5         |      |      |      |      |
|            | Y5    | Y5    | LC5  |      |            |      |      |      |      |
|            |       | TG    | LR   |      |            |      |      |      | RS1  |
|            |       | LT2   | LT2  | L1   | L1         |      |      |      |      |
|            |       |       |      |      |            | TTG  | TTG  | LC6  | TTG  |



A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

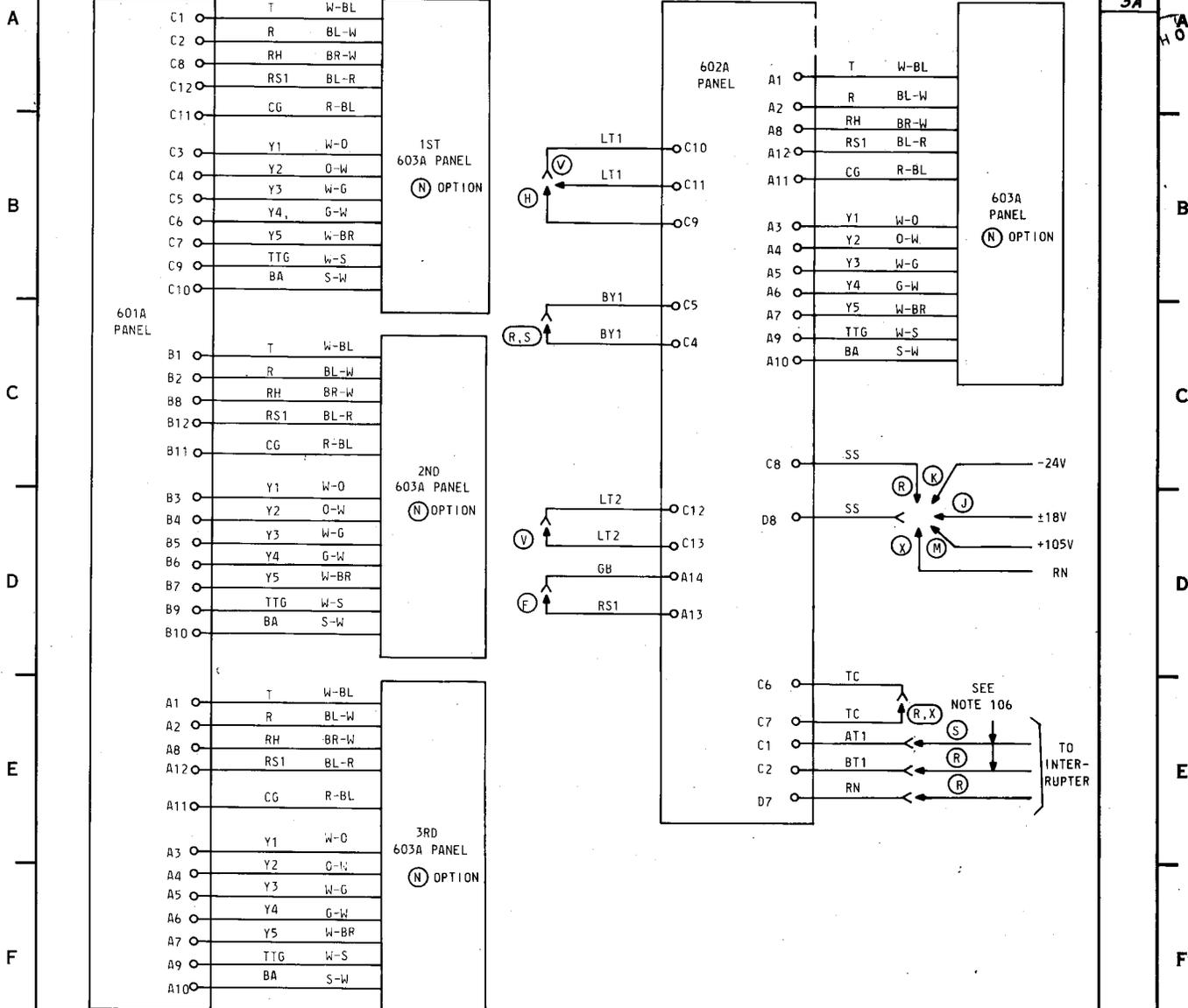
DIAL INTERCOMMUNICATING  
AND MISCELLANEOUS PANELS

**SD-69608-OI-D4**

**BELL TELEPHONE LABORATORIES** INCORPORATED 3S DWG SIZE PRINTED IN U.S.A.

INFORMATION NOTES: (CONT)

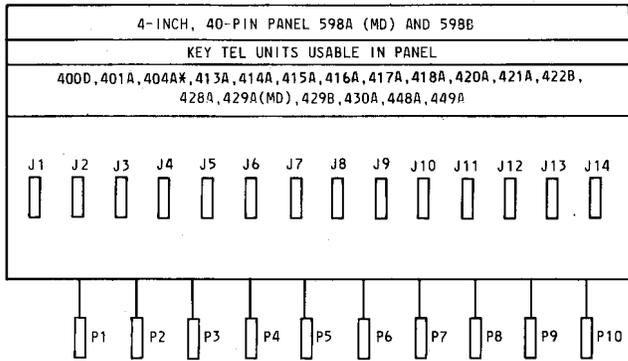
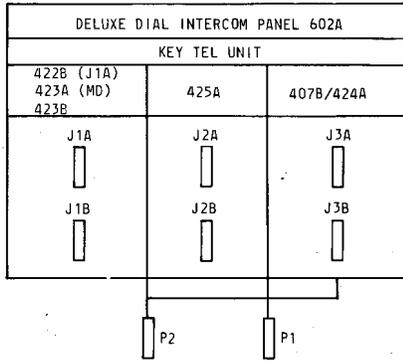
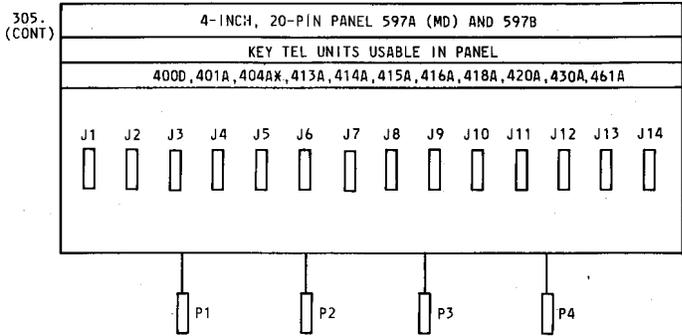
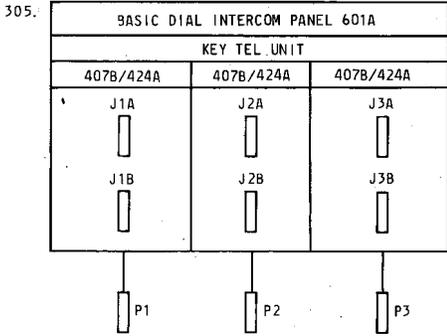
304. INSTALLER WIRING SHOWING DIAL INTERCOM OPTIONS AND CONNECTIONS WHEN TOUCH-TONE IS REQUIRED.



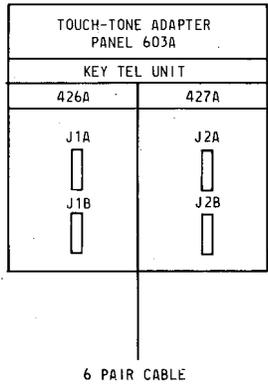
DRAWING  
ISSUE  
/ |  
2D  
3A

INFORMATION NOTES: (CONT)

INFORMATION NOTES: (CONT)



\* PARTIAL USE



306. INSTALLER WIRING SHOWING DIAL INTERCOM CONNECTIONS FOR ADDING TENS GROUP (422B KTU, X1-X0, STATION BUSY CIRCUIT) TO THE 602A PANEL.

