

CIRCUIT NOTES:

| DESIG | AMP | POTENTIAL FUSED | ONE PER |
|-------|-----|-----------------|---|
| 1-1/3 | | -48V SIG | BAT. FOR FIG. 1 SHALL BE TAKEN FROM ASSOC POS CKT |
| 1-1/3 | | -48V SIG | 2 FIG. 2 |
| 1-1/3 | | -24V SIG | BAT. FOR FIG. 1 SHALL BE TAKEN FROM ASSOC POS CKT |

| BATTERY SYMBOL | VOLTAGE RANGE |
|----------------|---------------|
| -48 | 40-56V |
| -24 | 20-28V |

102. WHEN FEATURE OR OPTION IS NOT PROVIDED LOOP SIMILARLY DESIGNATED LEADS.

| FEATURE OR OPTION | FIG. | PROVIDE | | |
|---|-------------------------------|----------------------------|--------------------|---|
| | | APP OR WRG | QUANTITY | |
| NO. 3C, 3CL OR 3CF | 1,3,Z | H | 1 PER CKT | |
| SWITCH-BOARD | DIALING OR | FRONT CORD | G | |
| | | REAR CORD | H | |
| | DIAL MONITORING | | S,W | |
| | | AUTO START CONTROL RINGING | REQ | WITH CONTROL KEY B E,B Y,U WITHOUT CONTROL KEY B,Y,U NOT REQUIRED X |
| TOLL TEST BOARD | NO. 17B | 1 | G,H, M,X 1 PER CKT | |
| | NO. 18B | 1 | G,H, L,X 1 PER CKT | |
| | INTERTOLL TRUNK PULSE TESTING | REQUIRED | 2 | 2 PER POS AS REQD |
| | | NOT REQUIRED | Z | |
| WHEN CONN TO DIALING AND SUPV CKT, SIG TEST CKT OR SSI TEL ORDER WIRE CKT IS NOT REQUIRED | 3 | | 1 PER CKT | |

103. THIS KEY UNIT IS PART OF THE ASSOCIATED POSITION CIRCUIT.

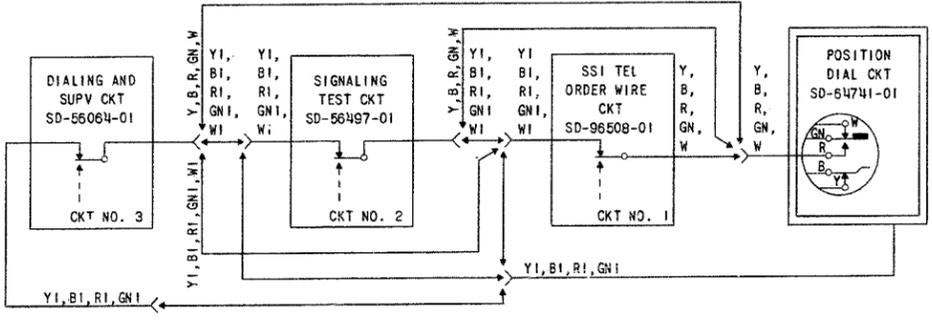
CIRCUIT NOTES: (CONT)

| RECORD OF 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 | PROV |
| 2D | FIG. 2 | NONE | 102 | | | | FIG. 2 |
| 2D | FIG. W | FIG. Z | 102 | FIG. Z | | | FIG. W |
| 4D | | | 102 | FIG. 2,W | | | A |
| | | | | 5L DIAL | 5E DIAL | | |
| 5B | Y OR Z | Z OR NONE | 105 | Y | | | Z |
| 6B | W | F OR NONE | 102 | W | | | F |
| 9D | U OR V | Y OR NONE | 107 | U | | | V |
| 9D | S OR T | T OR NONE | 107 | S | | | T |
| 13D | R OR P | R | | P | | | R |
| 13D | FIG. A OR B | FIG. A | 102 | FIG. B | | | FIG. A |
| 15D | ZA & ZB | ZA | | ZB | | | ZA |
| 16D | DIALS | | | 6E | | | 5L |
| 16D | | | | | | | A |
| 16D | | | 108 | FIG. 3 | | | |

- 105. PRIOR TO ISSUE 5B Z WAS PART OF B OPTION.
- 106. PRIOR TO ISSUE 10D V OPTION WAS PART OF B OPTION AND T OPTION WAS PART OF W OR F OPTIONS.
- 106. FIG. 3 WAS FORMERLY SHOWN IN FIG. 1 AS DOTTED WIRING THRU THE DIALING AND SUPERVISORY CIRCUIT.

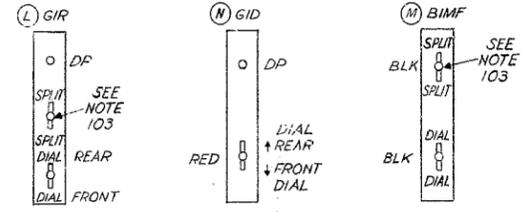
INFORMATION NOTES:

- 301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.
- 302. CONNECTIONS TO THE VARIOUS CIRCUITS WHICH MAY USE THE DIAL OF THIS CIRCUIT SHALL BE MADE IN THE ORDER GIVEN AT THE BRACKET INFORMATION. THE TYPICAL CONNECTIONS ARE SHOWN IN THE DIAGRAM BELOW WITH THE SEQUENCE OF CONNECTIONS STARTING FROM CIRCUIT NO. 1.



| FIG. | APP OR WIRING |
|------|---------------|
| 1 | A Z ZA |
| 2 | B Y ZB |
| 3 | X |
| | W |
| | V |
| | U |
| | T |
| | S |
| | R |
| | P |
| | N |
| | M |
| | L |
| | H |
| | G |
| | F |
| | E |
| | D |
| | C |
| | B |
| | A |

- J63516E-()
 - J63516M-()
 - J61528B-()
 - ED-92115-01
 - ED-92114-01
 - ED-92106-01
 - J61528C-()
 - J63518M
 - ED-63250-01
 - ED-62227-01
 - ED-61928-01
 - ED-61772-01
 - ED-92105-01
 - ED-61703-01
- EQUIPMENT INFO



REPLACES SD-64615-01

SD-64741-01

TOLL SYSTEMS

TOLL SWITCHBOARD NO. 3C, 3CL OR 3CF
TOLL TESTBOARD NO. 17B OR 18B
POSITION DIAL CIRCUIT

FOR REPEATED DIALING
ARRANGED FOR REASSOCIATION OF DIAL CIRCUIT
AND FOR AUTOMATIC START OF RINGING

(POS D) (DIAL)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-64741-011
4 SHEETS

AT&T CO STANDARD

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| CIRCUIT REQUIREMENTS | | | | | | | | | | | | | | | DRAWING ISSUE | | | |
|-----------------------------|-------|--------|----------|----------|-------------|---------------------|-------------------|----------------|----------|---------------|---------------|--------------------------|----------|------------|---------------|--------|--------|--------------|
| DIAL CIRCUIT (POS D) (DIAL) | | | | | | | | | | | | | | | 16D | P.O.B. | | |
| APPARATUS | | | MECH REQ | | | CIRCUIT PREPARATION | | | TEST SET | | | DIRECT CURRENT FLOW REQT | | | REMARKS | 17D | T.E.B. | |
| DESIG | CODE | OPTION | FIG. | BSP FIG. | CONT PRESS. | ARM. TRVL. | BLOCK OR INSULATE | TEST CLIP DATA | | TEST SET PREP | SEE TEST NOTE | TEST WDG | TEST FOR | AFTER SOAK | | TEST | READJ | 18D |
| | | | | | | | | CONN BAT. | CONN CSD | | | | | | | | | |
| RELAYS | | | | | | | | | | | | | | | | | | |
| A | U320 | | I | 120/111 | H | 35 | | | T(A) | GRD | | 0 | | | 22.5 | 21 | | |
| F | U660 | G | I | 117/145 | H | 47 | | | T(F) | GRD | | 0 | | | 23.5 | 22 | | |
| R | U660 | H | I | 117/145 | H | 47 | | | T(R) | GRD | | 0 | | | 23.5 | 22 | | |
| R1 | U659 | V | I | 144/101 | H | 35 | | | TF(R1) | GRD | 3 | P | U | FS | 62 | 59 | | |
| | | | | | | | | | TF(R1) | GRD | 3 | P | NO | FS | 41 | 43.5 | | |
| | | | | | | | | | TF(R1) | GRD | 3 | P | R | FS | 3.8 | 4.6 | | |
| | | | | | | | | | TR(R1) | GRD | 3 | S | O | FS | 25 | | | |
| R1 | U1266 | U | I | 110/101 | H | 35 | | | TF(R1) | GRD | | P | O | | 59.5 | 55.5 | | |
| | | | | | | | | | TF(R1) | GRD | | P | NO | | 39 | 41.5 | | |
| | | | | | | | | | TR(R1) | GRD | | S | O | | 23 | | | |
| R2 | Y62 | Z | I | 188/115 | H | 35 | | | T(R2) | GRD | 3 | | O | FS | 20.5 | 19.5 | | |
| | | | | | | | | | T(R2) | GRD | 3 | | H | FS | 2.4 | 2.2 | | |
| | | | | | | | | | T(R2) | GRD | 3 | | R | FS | 1 | 1.3 | | |
| R2 | Y203 | Y | I | 188/115 | SPL | SPL | | | T(R2) | GRD | 1/2/3 | | O | FS | 19.5 | 18.5 | | ARM. TRVL 29 |
| | | | | | | | | | T(R2) | GRD | 1/2/3 | | H | FS | 1.9 | 1.8 | | |
| | | | | | | | | | T(R2) | GRD | 1/2/3 | | R | FS | 0.9 | 1.2 | | |
| R3 | Y50 | B | I | 190/115 | H | 29 | | | T(R3) | GRD | 3 | | O | FS | 18 | 17 | | |
| | | | | | | | | | T(R3) | GRD | 3 | | H | FS | 2.5 | 2.3 | | |
| | | | | | | | | | T(R3) | GRD | 3 | | R | FS | 0.9 | 1.2 | | |
| RA | Y105 | A | I | 189/188 | H | 35 | | | T(RA) | GRD | 3 | | O | FS | 25 | 23.5 | | |
| | | | | | | | | | T(RA) | GRD | 3 | | H | FS | 3.2 | 3 | | |
| | | | | | | | | | T(RA) | GRD | 3 | | R | FS | 1.1 | 1.5 | | |
| RA1 | U567 | A | I | 111/106 | H | 44 | | | T(RA1) | GRD | | | O | | 16.5 | 15.5 | | |
| SO | U458 | T | I | 111/101 | H | 29 | | | T(SO) | GRD | 3 | | O | FS | 7.2 | 6.8 | | |
| | | | | | | | | | T(SO) | GRD | 3 | | R | FS | 0.7 | 0.9 | | |
| SO | U1248 | S | I | 111/101 | H | 29 | | | T(SO) | GRD | | | O | | 8.1 | 7.7 | | |

TEST NOTES:

- GAUGING REQUIREMENTS FOR SPRINGS 3T & 4T AND 1B & 2B TEST 4, READJ 6.
- MIN TENSION 1T(R2) TEST 8 GRAMS, READJ 10 GRAMS.
- ADJACENT RELAYS SHALL NOT BE ENERGIZED. SEE BSP.

SD-64741-013

TOLL SWITCHBOARD NO. 3C, 3CL OR 3CF
TOLL TESTBOARD NO. 17B OR 18B
POSITION DIAL CIRCUIT

SD-64741-013

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FIG. K
FOR TOLL SWBD NO. 3C

FIG. 52 (MFR DISC.)
FOR FIG. 2
18B TOLL TEST BD

FIG. L (A&M ONLY)
FOR TOLL TEST BD NO. 17B

FIG. 53
FOR SWBD 3C OR 3CL
WITH 30 INCH KEYSHELF

FIG. 51 (MFR DISC.)
FOR FIGS. 1, Z & W
18B TOLL TEST BD

FIG. 54 (A&M ONLY)
FOR FIGS. 1 & 3
17B TOLL TEST BD

FIG. 51 (MFR DISC.)
FOR FIGS. 1, Z & W
18B TOLL TEST BD

FIG. 54 (A&M ONLY)
FOR FIGS. 1 & 3
17B TOLL TEST BD

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TOLL SWITCHBOARD NO. 3C, 3CL OR 3CF
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