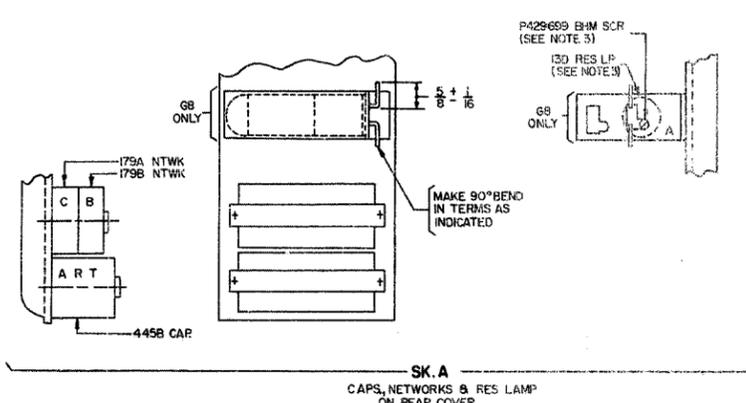
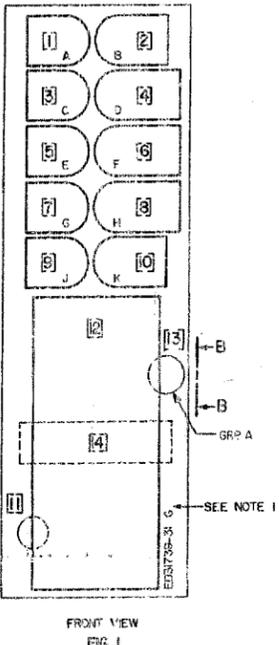
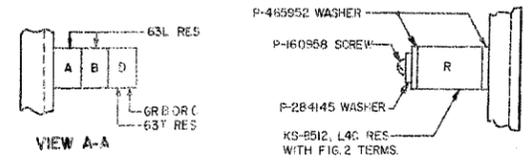


| GRP | QUAN PER GRP | CODE | DESCRIPTION | NOTE | LINE |
|---------|--------------|---------|------------------------|--------|------|
| | | | MTG PLY E/W | FIG. 1 | 1 |
| 1,3,5,8 | 1 | 987H | COVER - SK. A | | |
| 1,3,5 | 1 | 111A | COVER | | |
| 8 | 1 | 111F | COVER | | |
| 1,3,5,8 | 1 | 221HD | RELAY POS 1 | | 5 |
| 1,3,5,8 | 1 | 248E | RELAY 2 | | |
| 1,3,5,8 | 1 | 221CK | RELAY 3 | | |
| 1,3,5,8 | 1 | 222KN | RELAY 4 | | |
| 1,3,5,8 | 1 | 221DT | RELAY 5 | | 10 |
| 1,6,8 | 1 | 222T | RELAY 6 | | |
| 3,7 | 1 | 222DP | RELAY 6 | | |
| 1,3,5,8 | 1 | 221W | RELAY 7 | | |
| 1,3,5,8 | 1 | 222JJ | RELAY 8 | | 15 |
| 1,3,5,8 | 1 | 223A | RELAY 9 | | |
| 1,3,5,8 | 1 | 222E | RELAY 10 | | |
| 1,3,5,8 | 2 | 63L | RES 11A, 11B | | |
| 1,3,5,8 | 1 | 197E | SWITCH E/W 12 | | 20 |
| 1,3,5,8 | 1 | MIR | CORD 4" LONG | | |
| 1,3,5,8 | 2 | MIR | CORD 4 3/4" LONG | | |
| 1,3,5,8 | 1 | 242C | PLUG 14R | | 25 |
| 1,3,5,8 | 1 | 179A | NETWORK | | |
| 1,3,5,8 | 1 | 179B | NETWORK | | |
| 1,3,5,8 | 1 | 445B | CAP. SK. A | | |
| 8 | 1 | 13D | RES LAMP | | 3 |
| 8 | 1 | P429699 | BHM SCR .138-32 X 5/16 | | 3 |
| | | | | | 30 |
| | | | | | 35 |
| | | | | | 40 |
| | | | | | 45 |
| | | | | | 50 |
| | | | | | 55 |
| | | | | | 60 |
| | | | | | 65 |
| | | | | | 70 |
| | | | | | 75 |



| TABLE A-DESCRIPTION OF GROUPS | | | | | GRP | INST |
|--|-----------------------|----|---|---|-----|------|
| A | B | C | D | E | | |
| EQUIPMENT | | | | | | |
| ASSEM, WRG & EQPT FOR 1 COMB 1 RING CONN FOR USE WITH IND. 2 PTY SEL, 4 PTY SEMI-SEL OR 4 PTY FULL SEL LINES (SEE TABLE B) | A&M ONLY | 1 | | SD-31739-01 FIG. 1 M, R, S, V, W WRG D, W, Y APP | X | |
| ASSEM, WRG & EQPT FOR 1 COMB 1 RING CONN FOR USE WITH IND. 2 PTY SEL, 4 PTY SEMI-SEL OR 4 PTY FULL SEL LINES (SEE TABLE B) | A&M ONLY | 3 | | SD-31739-01 FIG. 1 M, R, S, V, W WRG E, W, Y APP | X | |
| ASSEM, WRG & EQPT FOR 1 COMB 1 RING CONN FOR USE WITH IND. 2 PTY SEL, 4 PTY SEMI-SEL OR 4 PTY FULL SEL LINES (NOT COMPLETE WITHOUT G-6 OR 7) (SEE TABLE B) | | 5 | | SD-31739-01 FIG. 1 M, R, S, V, W WRG Y, W APP | X | |
| EQPT REQ'D IN ADDITION TO G-5 (SEE TABLE B) | | 6 | | SD-31739-01 D APP (FIG. 1) | X | |
| EQPT REQ'D IN ADDITION TO G-5 (SEE TABLE B) | A&M ONLY | 7 | | SD-31739-01 E APP (FIG. 1) | X | |
| ASSEM, WRG & EQPT FOR 1 COMB 1 RING CONN FOR USE WITH IND. 2 PTY SEL, 4 PTY SEMI-SEL OR 4 PTY FULL SEL LINES (SEE NOTE 55) (SEE TABLE B) | | 8 | | SD-31739-01 FIG. 1 M, R, S, V, W WRG D, M, W, Y APP | X | |
| WRG & EQPT REQ'D IN ADD TO GRP 1, 3, 5 OR 8 TO ARR SW FOR AUTO DISC (SEE NOTE 56) | MFR DISC REPL BY GR B | A | 1 | SD-31739-01 J WRG G, J APP (FIG. 1) SD-31739-01 K WRG H APP (FIG. 1) | | |
| WRG REQ'D IN ADDITION TO GRPS 1, 3, 5 OR 8 TO PROVIDE BUSY FLASH TO OPERATORS OVER LOCAL TRAIN IN OFFICES WITHOUT TOLL TRAIN | MFR DISC | WA | | SD-31739-01 "C" WRG (FIG. 1) OMIT "R" WRG | | |
| WRG & EQPT REQ'D IN ADD. TO GR 1, 3, 5 OR 8 TO ARRANGE SW FOR AUTO DISC B TO ELIMINATE THE POSSIBILITY OF ROTARY OVERSTEP (SEE NOTE 57, 58) | MFR DISC | B | 1 | SD-31739-01 J, ZB, ZD WRG J, ZB, ZE APP (FIG. 1) | | |
| WRG & EQPT IN ADD TO GR 1, 3, 5 OR 8 TO ELIMINATE THE POSSIBILITY OF ROTARY OVERSTEP (SEE NOTE 57, 58) | MFR DISC | C | 1 | SD-31739-01 ZB, ZD WRG ZB, ZE APP (FIG. 1) | | |

| TABLE C | | | |
|-----------------|-------------------|-----|--|
| FEATURE | SEE NOTE | QTY | MATERIAL REQUIRED FOR MODIFICATION |
| ROTARY OVERSTEP | 57(A) (B), (C) | 1 | PARTS, KIT OF D-179971 63T RES P-251741 RHM SCR .138-32 X 2 1/8" |
| | 57(A) OR (B) | 1 | P-128224 RLS ARM SPC G CRKT ASSY P-252926 HMM SCR .138-32 X 9/32" P-495112 SPG ARM E/W P-250483 BUSHING |
| AUTO DISC | 57(B) | 1 | KS-8512, L4C RES 352 Ω WITH FIG 2 TERMS |
| | | 2 | P-465952 WASH. |
| | | 1 | P-284145 WASH. P-160358 RHM SCR .138-32 X 1 3/8" |

| TABLE B - APPLICATION OF GROUPS | | | | |
|--|--|---------------------------|--------|----------|
| | 4BY TRIP BAT | 6OV TRIP BAT | RATING | |
| OFFICES WHICH HAVE 806E OR 806F RINGING PLANT | 4 - PTY FULL SEL RINGING - EXCEPT PREPAY COIN HDR GRP AC-DC RINGING PREPAY COIN HDR GRP 4 - PTY FULL SEL OR AC-DC RINGING | G-8 | | STD. |
| OFFICES WHICH HAVE RINGING & ALARM SHELF OR 806D RINGING PLANT | JK WRG UNIV SH J32311E JK WRG FOR SHELVES PRIOR TO J32311E | G-5 & 6 G-5 & 6 G-1 | G-3 | A&M ONLY |

| LINE | NAME | SCHEMATIC | DWG NO | FIG | OPT WIRING | WIRED | NOTES | REMARKS |
|-------------------------|----------------------------------|---------------|-------------|------|------------|-------|----------------------|---------|
| 1 | COMB CONN - IR | SE-31739-01 | SD-31739-01 | | | | AS SPEC'D IN TABLE A | |
| CIRCUITS | | | | | | | | |
| SURFACE WIRING PROVIDED | | | | | | | | |
| 4 | | | | | | | | |
| 3 | | | | | | | | |
| 2 | MIR CORDS - DRESSING & ATTACHING | =ED-30278-01 | 6 | | | | | |
| 1 | SURF WRG RUNNING LIST | =SWD-31739-31 | 5 | | | | | |
| LINE | NAME | NUMBER | LINE | NAME | NUMBER | | | |
| COL | P | R | COL | P | R | | | |

MANUFACTURING NOTES

- THE GROUP NUMBER OF THE SWITCH ORDERED SHALL BE STAMPED ON THE APPARATUS MOUNTING PLATE.
- WHEN G3 OR 7 IS SPECIFIED THE SHOP SHALL ADJUST THE 222DP (F) RELAY PER ADJUSTMENT "B". IN OFFICES WHICH EMPLOY RELAY TYPE SUBSETS OR OFFICES WHICH ARE NOT ARRANGED FOR 1500 GRM SUBSCRIBERS LINES THE INSTALLER SHALL READJUST THIS RELAY TO ADJUSTMENT "A".
- WHEN GROUP 8 IS SPECIFIED REPLACE THE MOUNTING SCREW FURNISHED WITH THE 13D RESISTANCE LAMP WITH A P429699 BHM SCREW AND BEND RESISTANCE LAMP TERMINALS IN ACCORDANCE WITH SK. A.
- THE NUMBERS IN () ARE MOUNTING PLATE POSITION NUMBERS ONLY AND SHALL NOT BE STAMPED.
- WHEN SWITCH IS MODIFIED FOR PREVENTION OF CONNECTOR ROTARY OVERSTEP WITH OR WITHOUT AUTO DISC INSTALLER SHALL RESTAMP CODE OF SWITCH AS FOLLOWS:

| FROM | TO | FROM SWITCH | TO SWITCH |
|------------------------------|---------------|-------------|-----------|
| GR 1, 3, 5 OR 8 WITHOUT GR A | ADD GR B OR C | 197E | 197HR |
| GR 1, 3, 5 OR 8 WITH GR A | ADD GR B OR C | 197GP | 197HR |

CONNECTION SWITCH GR MODIFIED

NOTE: IN FIG. 1, TABLE A, GRP A IS MODIFIED. VIEW B OF FIG. 1 IS MODIFIED. NOTE 53 OF FIG. 1 IS MODIFIED. NOTE 55 OF FIG. 1 IS MODIFIED. NOTE 57 OF FIG. 1 IS MODIFIED. NOTE 58 OF FIG. 1 IS MODIFIED. NOTE 59 OF FIG. 1 IS MODIFIED. NOTE 60 OF FIG. 1 IS MODIFIED. NOTE 61 OF FIG. 1 IS MODIFIED. NOTE 62 OF FIG. 1 IS MODIFIED. NOTE 63 OF FIG. 1 IS MODIFIED. NOTE 64 OF FIG. 1 IS MODIFIED. NOTE 65 OF FIG. 1 IS MODIFIED. NOTE 66 OF FIG. 1 IS MODIFIED. NOTE 67 OF FIG. 1 IS MODIFIED. NOTE 68 OF FIG. 1 IS MODIFIED. NOTE 69 OF FIG. 1 IS MODIFIED. NOTE 70 OF FIG. 1 IS MODIFIED. NOTE 71 OF FIG. 1 IS MODIFIED. NOTE 72 OF FIG. 1 IS MODIFIED. NOTE 73 OF FIG. 1 IS MODIFIED. NOTE 74 OF FIG. 1 IS MODIFIED. NOTE 75 OF FIG. 1 IS MODIFIED. NOTE 76 OF FIG. 1 IS MODIFIED. NOTE 77 OF FIG. 1 IS MODIFIED. NOTE 78 OF FIG. 1 IS MODIFIED. NOTE 79 OF FIG. 1 IS MODIFIED. NOTE 80 OF FIG. 1 IS MODIFIED. NOTE 81 OF FIG. 1 IS MODIFIED. NOTE 82 OF FIG. 1 IS MODIFIED. NOTE 83 OF FIG. 1 IS MODIFIED. NOTE 84 OF FIG. 1 IS MODIFIED. NOTE 85 OF FIG. 1 IS MODIFIED. NOTE 86 OF FIG. 1 IS MODIFIED. NOTE 87 OF FIG. 1 IS MODIFIED. NOTE 88 OF FIG. 1 IS MODIFIED. NOTE 89 OF FIG. 1 IS MODIFIED. NOTE 90 OF FIG. 1 IS MODIFIED. NOTE 91 OF FIG. 1 IS MODIFIED. NOTE 92 OF FIG. 1 IS MODIFIED. NOTE 93 OF FIG. 1 IS MODIFIED. NOTE 94 OF FIG. 1 IS MODIFIED. NOTE 95 OF FIG. 1 IS MODIFIED. NOTE 96 OF FIG. 1 IS MODIFIED. NOTE 97 OF FIG. 1 IS MODIFIED. NOTE 98 OF FIG. 1 IS MODIFIED. NOTE 99 OF FIG. 1 IS MODIFIED. NOTE 100 OF FIG. 1 IS MODIFIED.

ENGINEERING NOTES

- THIS DRAWING AGREES WITH
- ASSOCIATED JACK WIRING T-532076 OR T-532415.
- WHEN G-8 IS ORDERED AND CONNECTOR INTERCEPTING IS USED THE INTERCEPT CIRCUITS MUST TRIP RINGING EITHER BY A COLD CATHODE TUBE, OR BY A MOMENTARY BATTERY ON ONE SIDE OF THE CIRCUIT. PRESENT STANDARD INTERCEPTING CIRCUITS ARE SO ARRANGED.
- (A) SPECIFY WRG & APP OF GRP A FOR FIELD MODIFICATION TO ARR SW FOR AUTO DISC. GRP A IS FOR STAMPING & RECORD PURPOSES ONLY AND CANNOT BE ORDERED. (B) REFER TO DCS-31739-14B FOR DETAILS OF THIS MODIFICATION.
- (A) TO ARRANGE SWITCHES PER GR 1, 3, 5 OR 8 FOR PREVENTION OF ROTARY OVERSTEP WITHOUT AUTO DISC ADD GR C. (SEE TABLE C)
(B) TO ARRANGE SWITCHES PER GR 1, 3, 5 OR 8 FOR PREVENTION OF ROTARY OVERSTEP WITH AUTO DISC ADD GR B. (SEE TABLE C)
(C) TO ARRANGE SWITCHES PER GR 1, 3, 5 OR 8 FOR PREVENTION OF ROTARY OVERSTEP AND SWITCHES ARE ARRANGED FOR AUTO DISC PER GR A. MODIFY GR A TO AGREE WITH GR B. (SEE TABLE C)
- THE FOLLOWING GROUPS ARE FOR RECORD PURPOSES ONLY AND CANNOT BE ORDERED: GROUPS A, B, C.
- (A) MODIFICATION OF SD-31739-01 CONSISTS OF SHOWING 63T (D) RES ACROSS RONS SPRINGS (ZB OPT) AND OMITTING "ZH" OPTION PER TWX R. J. JAEGER JR. TO J. DASHEN DATED 3-24-65.
(B) MODIFICATION OF ED-31739-01 CONSISTS OF SHOWING 63T (D) RES INSTEAD OF KS-8512 (2A, K) RES IN POS 11C PER TWX A. A. BURGESS TO J. DASHEN DATED 3-26-65.

REPLACED BY ED-31739-32

STEP BY STEP SYSTEMS
NO. 395A
ASSEMBLY, WIRING AND EQUIPMENT FOR
COMBINATION 1 RING CONNECTOR
INDIVIDUAL, 2 PARTY OR 4 PARTY LINES
SURFACE WIRED

WESTERN ELECTRIC COMPANY, INC.

ED-31739-31

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