## TABLE A

### SHEET INDEX

SD DWG & T DWG SHEET ISSUES ARE IN AGREEMENT AS FOLLOWS

| SCHEMATIC | | | | | ISSUE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SD-97093-01 | | | | | 2MOD | 2MOD | 2MOD | 2MOD | 2MOD | 2MOD | 2MOD | 2MOD | 2MOD | | | | | | | | | | | | | | | | | | |
| WIRING DIAGRAM | | | | | ISSUE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUTO CHG | | | | SH NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 | U6 | | | A1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | |
| | | | | B2 | 1 | 2 | 2 | 2 | 2 | 6 | 6 | 8 | 9 | | | | | | | | | | | | | | | | | | |
| S1 | U6 | | | B1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | |
| | | | | B2 | 1 | 2 | 3 | 3 | 5 | 6 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | |
| | | | | B3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | |
| | | | | B4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 9 | | | | | | | | | | | | | | | | | | |
| | | | | B5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 8 | | | | | | | | | | | | | | | | | | |
| | | | | B6 | - | - | - | - | - | - | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | |

| | | | | | | ENG SK |
|---|---|---|---|---|---|---|
| | —— | | 29 | | | |
| | (CAD 1) | | 28 | | | |
| | (CAD 1) | R | 27 | | | |
| | | Z | | Z | | ~ |
| 35 | | Y | | Y | | |
| | | X | | X | | |
| | | W | | W | | |
| | | V | | V | | |
| | | T | | T | | |
| 30 | | S | | S | | |
| | | K | | K | | |
| | | J | | J | | |
| | | | 26 | | | |
| | | | 25 | | | |
| 25 | | | 24 | | | |
| | | | 23 | | | |
| | | | 22 | | | |
| | | | 21 | | | |
| | (CAD 2) | | 20 | | | |
| 20 | | | 19 | | | |
| | | | 18 | | | |
| | | | 17 | | | |
| | | | 16 | | | |
| | | | 15 | | | |
| 15 | (CAD 1) | | 14 | | | MFR DISC |
| | (CAG 12) | | 13 | | | |
| | (CAD 12) | | 12 | | | |
| | (CAD 3) | | 11 | | | |
| | (CAD 4) | | 10 | | | |
| 10 | (CAD 9) | | 9 | | | |
| | (CAD 10) | | 8 | | | |
| | | | 7 | | | |
| | | | 6 | | | |
| | (CAD 2) | | 5 | | | |
| | | | 4 | | | |
| 5 | | | 3 | | | |
| | 1 (CAD 12) | A,B, F,G | 2 | | | |
| | (CAD 1) | R | 1 | | | |
| COL | A | B | C | D | E | F |
| LINE | FIG | OPT | FIG | WRG | APP | REMARKS |
| | SD-97093-01 | | T-97093-31 | | | |

SCHEMATIC FIGURES AND OPTIONS AGREE WITH SIMILARLY DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS EXCEPT AS SHOWN ABOVE. W E CO ASSIGNED FIGURES AND OPTIONS ARE PREFIXED WITH LETTER H AND MAY OR MAY NOT HAVE SCHEMATIC EQUIVALENT. ITEMS IN ( ) PARENTHESES ARE FOR INFORMATION ONLY AND ARE NOT TO BE RECORDED ON JOB WIRING LIST DRAWINGS.

SD- T DWG CROSS REFERENCE TABLE

| | | |
|---|---|---|
| 29 | | B4 |
| 28 | | B5 |
| 27 | | B6 |
| | Z | B1 |
| | Y | B1 |
| | X | B1 |
| | W | B1 |
| | V | B1 |
| | T | B1 |
| | S | B1 |
| | K | B2 |
| | J | B2 |
| 26 | | B5 |
| 25 | | B5 |
| 24 | | B5 |
| 23 | | B5 |
| 22 | | B5 |
| 21 | | B5 |
| 20 | | B5 |
| 19 | | B5 |
| 18 | | B5 |
| 17 | | B5 |
| 16 | | B5 |
| 15 | | B4 |
| 14 | | B5 |
| 13 | | B4 |
| 12 | | B4 |
| 11 | | B4 |
| 10 | | B4 |
| 9 | | B4 |
| 8 | | B4 |
| 7 | | B4 |
| 6 | | B4 |
| 5 | | B4 |
| 4 | | B4 |
| 3 | | B4 |
| 2 | | B2,B3 |
| 1 | | B1 |
| FIG | OPT | SHEET |

SHEET LOCATION OF FIGURES & OPTIONS

TABLE D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 8 | | FIG 28 | FIG 14 | | 28 | | | 14 |
| CHANGE ON ISSUE | SPECIFY | DO NOT SPECIFY IF OFFICE RECORDS | THIS OPTION WAS FURNISHED | SEE NOTE | STD | A & M | MD | RATING |

RECORD OF FIGURES COMPONENTS AND WIRING CHANGE

TABLE B

### SHEET INDEX NOTES

1- WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.

2- THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.

3- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR A NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.

4- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER

5- THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

1-7-66

| | | | | |
|---|---|---|---|---|
| E.E. Spa | DM | | | 1 |

IN FIG 1, AT TERM BLOCK ASSY, LEAD FROM TERM 15 (CKTS 6,12,18 OR 24) & LEAD FROM TERM 15 (CKTS 1,7,13 OR 19) TO BRKTS DESIG "TO PREC FIG 1" & "FROM SUCC FIG 1" INTERCHANGED AND "24 GAUGE STRAP" WAS SHOWN AS A "BK" LC LEAD. IN FIG 2, AT 227A TS, LEAD FROM TERM 2 WAS DESIG AS "01W" AND AT AJ12 REL, TERM 1M WAS DESIG AS "BL1R" AND AT AJ205 REL, LEAD FROM TERM "U" WAS DESIG AS "01W". NOTE 10 OF MANUFACTURING NOTES READ "ALL WIRES IN THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT WIRES IN FIGS 1 & 2.

3-16-66 CLASS "A"

| | | | | |
|---|---|---|---|---|
| CN CBJ | RFI/RAF | WCC | | 2 |

COLOR CHGS MADE PRIOR TO INITIAL PRODUCTION.

4-22-66 CLASS "A"

| | | | | |
|---|---|---|---|---|
| DJM FAB | RFI/RAF | WCC | | 3 |

CANCELLED.

4-22-66 CLASS "A"

| | | | | |
|---|---|---|---|---|
| DJM FAB | RFI/RAF | WCC | | 4 |

IN FIG 2 AT (CPS2) BL & RTY LEADS DESIG 56 & 12 READ 57 & 11 RESP AND AT (D3) REL BL LEAD FROM TERM 2L WAS SHOWN CONN TO TERM 3F.

4-22-66 CLASS "A"

| | | | | |
|---|---|---|---|---|
| DJM FAB | RFI/RAF | WCC | | 5 |

IN FIG 2 AT (CPS 2) PWB ASSY (R15) RES ADDED. BET TERM 1 & 5. IN NOTE 76 "AND OF FS2 --- (R15) RES" ADDED. NOTE 13 ADDED.

5-12-66 CLASS "AC"

| | | | | |
|---|---|---|---|---|
| ASSD RAS | KAF | WCC | | 6 |

FIG 27 ADDED

7-7-66 CLASS "B"

| | | | | |
|---|---|---|---|---|
| DISCO KAF | RFP | WCC | | 7 |

FIG 28 ADDED. FIG 14 WAS SHOWN RATED STANDARD.

5-9-67 CLASS "B"

| | | | | |
|---|---|---|---|---|
| RFR CKT | KAF | WCC | | 8 |

IN TABLE F, APP OPTIONS Y & Z LINED OUT. ADDED FX TRKS DIAL LONG LINES, J & K WRG & S,Y,Z APP. FIG. 29 ADDED.

6-7-67 CLASS "B"

| | | | | |
|---|---|---|---|---|
| ALD CKT | KAF | WCC | | 9 |

② 9

T-97093-31 SHEET AI

T-97093-31 ANDZ

COMMON SYSTEMS
T1 CARRIER
CARRIER GROUP ALARM
CIRCUIT

(CARR GRP ALM)

STANDARD

T-97093-31

8 SHEETS

SHEET AI

PRINTED IN U.S.A.

WESTERN ELECTRIC COMPANY, INC.

DWG SIZE 6S

| TABLE E | | | |
|---|---|---|---|
| FIG | SPECIFY | CONNECTING TO | REMARKS |
| 3,4 5,6 & 15 OR 7 | 24 PER PANEL | CARR GRP ALM PANEL; DIST FRAME & D1 CHANNEL BANK BAY. | PROVIDE FIG 7 ONLY, UNLESS OTHERWISE SPECIFIED. (SEE NOTES 55,61 & 62) |
| 10 | 24 PER PANEL | CARR GRP ALM PANEL AND DIST FRAME. | USE THIS FIG WHEN A DIST FRAME CONN IS REQ'D BETWEEN THE CARR GRP ALM PANEL & D1 CHAN BANK BAY (SEE NOTE 55). |
| 11 | 24 PER PANEL | D1 CHAN BANK BAY; CARR GRP ALM PANEL & DIST FRAME. | |
| 9 | 1 PER UNIT | CARR GRP ALM PANEL | DIST FRAME CONN FOR FIRST E & M LEAD TYPE CHANNEL UNIT (SEE NOTES 55,61 & 62) |
| 12 | 1 PER UNIT | D1 CHAN BANK BAY; NO. 1 ESS APPLIQUE CKT; 48V SUP & SIG GRD. | |
| 8 | 24 PER UNIT | | DO NOT SPECIFY FOR CIRCUIT EQUIPPED FOR SERVICE RESTORAL. |
| 1,2 | 1 PER UNIT | | PANEL WRG |
| 13 | 1 PER UNIT | CARR GRP ALM PANEL | 45V PWR SUP & SIG GRD. |
| ~~14~~ 28 | 24 PER PANEL | D1 CHAN BANK BAY AND DIST FRAME. | IF 1 OR 2 BANKS ON J98711A AND J98711C OR 1 BANK ON J98711B ARE NOT EQUIPPED, SPECIFY THE BANK TO WHICH THE CONNECTION IS MADE. (SEE NOTES 54 & 55). |
| 16 THRU 26 | INFORMATION ONLY | | JUMPER INFORMATION ON CROSS CONNECTIONS FOR FIG 7 OR FIG 3,4 AND 15. |
| 27 | 12 PER UNIT | | PANEL WRG |

| TABLE F | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FEATURE OR OPTION | | | | PROVIDE | | | | | | REMARKS |
| | | | | T-DWG FIG | WRG | APP (SCREW CONN) | LEADS TL1 | LEADS TL2 | TYPE D1 BANK CHAN UNIT | |
| SUPV | | TYPE | CH | | | | | | | |
| E & M | INTER OFFICE | 2 WAY OR 1 WAY OUTGOING | 1-24 | 1 & 2 | J,K | T,Y,Z | E | | J98711L-( ) | SEE NOTE 61 |
| | | NO. 1 ESS | | | J,K | ~~T,Z~~ | E | | | |
| | | 1 WAY INCOMING | | | J,K | Y,Z | E | | | |
| | FX TRK | DIAL LONG LINES | | | J,K | S,Y,Z | E | | | |
| LOOP | 1 WAY OUTGOING OR SELECTOR UNIT | SXS | 1-24 | 1 & 2 | J,K | V,X,Y | S | S | J98711J-( ) | |
| | | NO. 1 ESS | | | J,K | ~~Y,Z~~ | | | | |
| | | PANEL NO. 1 CROSSBAR OR CROSSBAR TANDEM | | | J,K | S,Y | S,S1 | | J98711G-( ) | |
| | | NO. 5 CROSSBAR | | | J,K | W,Y | B1 | B2 | J98711J-( ) | |
| | | NO. 1 ESS | | | J,K | ~~Y,Z~~ | | | J98711K-( ) | |
| REVERSE BATTERY | 1 WAY INCOMING TRUNK OR SELECTOR | BATTERY ON TIP FOR OFF-HOOK SUPERVISION | 1-24 | 1 & 2 | J,K | Y | | | J98711K-( ) | |
| | | BATTERY ON TIP FOR ON-HOOK SUPERVISION | | | J,K | Y | | | J98711H-( ) | |
| SPECIAL SERVICES | FOREIGN EXCHANGE TRUNK | SUBSCRIBER END LOOP OR GROUND START | 1-24 | 2 | J,K | | | | J98711S-( ) | |
| | | OFFICE END LOOP OR GROUND START | | | J,K | | | | J98711U-( ) | |

OFC EQPT ... DIST Z-Y

J98711-AE1L1
J98711-AE1L1

| TABLE G | | | | |
|---|---|---|---|---|
| DETAILS OF PIGTAIL COMPONENTS | | | | |
| DESIG | TYPE | VALUE | LOC | SHEET |
| C2 | KS-16390,L5 CAP | 40UF | 55 | B2 |
| C3 | KS-16390,L2 CAP | 8UF | 52 | B2 |
| C4 | KS-16390,L2 CAP | 8UF | 50 | B2 |
| CR6 | 458A DIODE | | 55 | B2 |
| Z1 | 185A NET | | 28 | B3 |
| Z2 | 185A NET | | 22 | B3 |
| Z3 | 185A NET | | 11 | B3 |
| Z4 | 185A NET | | 18 | B3 |
| Z5 | 185A NET | | 14 | B3 |
| R14 | KS-13490,L1 RES | 82000 | 59 | B2 |

## ENGINEERING NOTES

51- SEE SHEET INDEX FOR DRAWING FROM WHICH THIS DRAWING IS MADE.

52- CONNECTING DRAWINGS-
D1 CHAN BK INTERCONN CKT — T-97060-40, T-97060-36
NO. 1 ESS REMOTE MASTER SCANNER APPLIQUE CKT — UNAVAILABLE

53- EQUIPMENT ARRANGEMENT- J98711P-3

54- THE J98711P CARRIER GROUP ALARM PANEL IS USED IN CONJUNCTION WITH THE J98711A, J98711B AND J98711C D1 CHANNEL BANK BAYS. IT IS RECOMMENDED THAT THE BAYS BE CABLED FOR THE ULTIMATE CONDITION EVEN IF THEY ARE NOT INITIALLY FULLY EQUIPPED. ONE J98711P PANEL IS REQUIRED PER D1 CHANNEL BANK AND IF ALL OF THE BANKS ARE NOT EQUIPPED THE ALARM PANEL IS NOT REQUIRED FOR THE UNEQUIPPED BANKS. HOWEVER, A SPACE SHOULD BE ASSIGNED FOR THESE PANELS AND THE UNUSED LEADS IN THE CABLE SHOULD BE STORED IN THIS ASSIGNED SPACE UNTIL THE D1 BANK IS EQUIPPED AND THE ALARM PANEL ADDED. ALL CABLES SHOWN ON THIS DRAWING ARE THOSE NEEDED FOR THE ULTIMATE CONDITION AND WILL ACCOMODATE EITHER TWO OR THREE J98711P PANELS.

55- TERMINAL STRIPS ASSOCIATED WITH FIGURES 3,4,5,6,7,9,10 SHOULD BE LOCATED ADJACENT TO EACH OTHER ON THE SAME DIST FRAME. IF ALL OF THE FIGURES ARE NOT INITIALLY USED IT IS RECOMMENDED THAT THE ADJACENT TERMINAL STRIPS BE RESERVED FOR USE AT A LATER DATE.

56- FOR 3554 SXS SWITCHING OFFICES WHERE SELECTOR BANK MULTIPLE IS WIRED DIRECTLY TO OUTGOING DIAL PULSE REPEATER THROUGH AUXILIARY TERMINAL STRIP AT SELECTOR SHELF, PROVIDE ADDITIONAL TERMINAL STRIP AT SELECTOR SHELF AND INSTALL CABLE TO IDF FOR CROSS CONNECTION PURPOSE.

57- "SM","TR","VM","LM","PX","MX" AND "ZM" ARE SCREW TYPE OPTIONS AND OFFICE WIRING LIST RECORDS NEED NOT BE MAINTAINED. THE ADJUSTING OF THE OPTION SCREWS SHOULD BE DONE PER TABLE F. WIRING OPTIONS "M" AND "K" ARE SHOP WIRED AT (A) TERMINAL STRIP.

58- FIGURE 7 SHOULD BE USED WHEN A UNIVERSAL WIRING ARRANGEMENT IS DESIRED AT THE DIST FRAME.

59- FIGURE 10 SHOULD BE USED WHEN A DIST FRAME CONNECTION IS DESIRED BETWEEN THE CARRIER GROUP ALARM PANEL AND THE D1 CHANNEL BANK BAY.

60- FIGURES 16 THRU 26 ARE FOR INFORMATION ONLY TO SHOW JUMPER ARRANGEMENT FOR VARIOUS TYPES OF CROSS CONNECTIONS.

61- IN CHANNEL ASSOCIATED WITH E AND M SIGNAL LEAD CHANNEL UNIT ASSIGNED TO SERVICE RESTORAL CIRCUIT, ALWAYS USE "X" OPTION IN ADDITION TO OPTIONS MENTIONED. (SEE NOTE 62).

62- FOR T1 CARRIER, CONNECT THE FIRST E AND M SIGNALING LEAD CHANNEL UNIT OF EACH SYSTEM ASSIGNED TO A 2-WAY TRUNK TO THE SERVICE RESTORAL CIRCUIT PER FIGURE 9. SPECIAL SERVICE, PRIVATE LINE AND OTHER NONSWITCHED CIRCUITS MUST NOT BE USED FOR SERVICE RESTORAL CIRCUITS.

## ENGINEERING NOTES (CONTINUATION)

63- LARGER GAUGE WIRE THAN THAT INDICATED IN THE CABLING FIGURES MAY BE SPECIFIED ON A JOB BASIS WHEN REQUIRED TO MEET OPERATING REQUIREMENTS OF ASSOCIATED SWITCHING SYSTEM.

76- MODIFICATION OF SD-97093-01 FS1 CONSISTS OF REMOVING NUMBER 1 AT MULT POINT BETWEEN 56 OF (C) REL. 12M OF (D) REL & TERM 2 OF (CPS2). AND OF FS2 CONSISTS OF ADDING (R15) RESISTOR.

(CONTINUED)

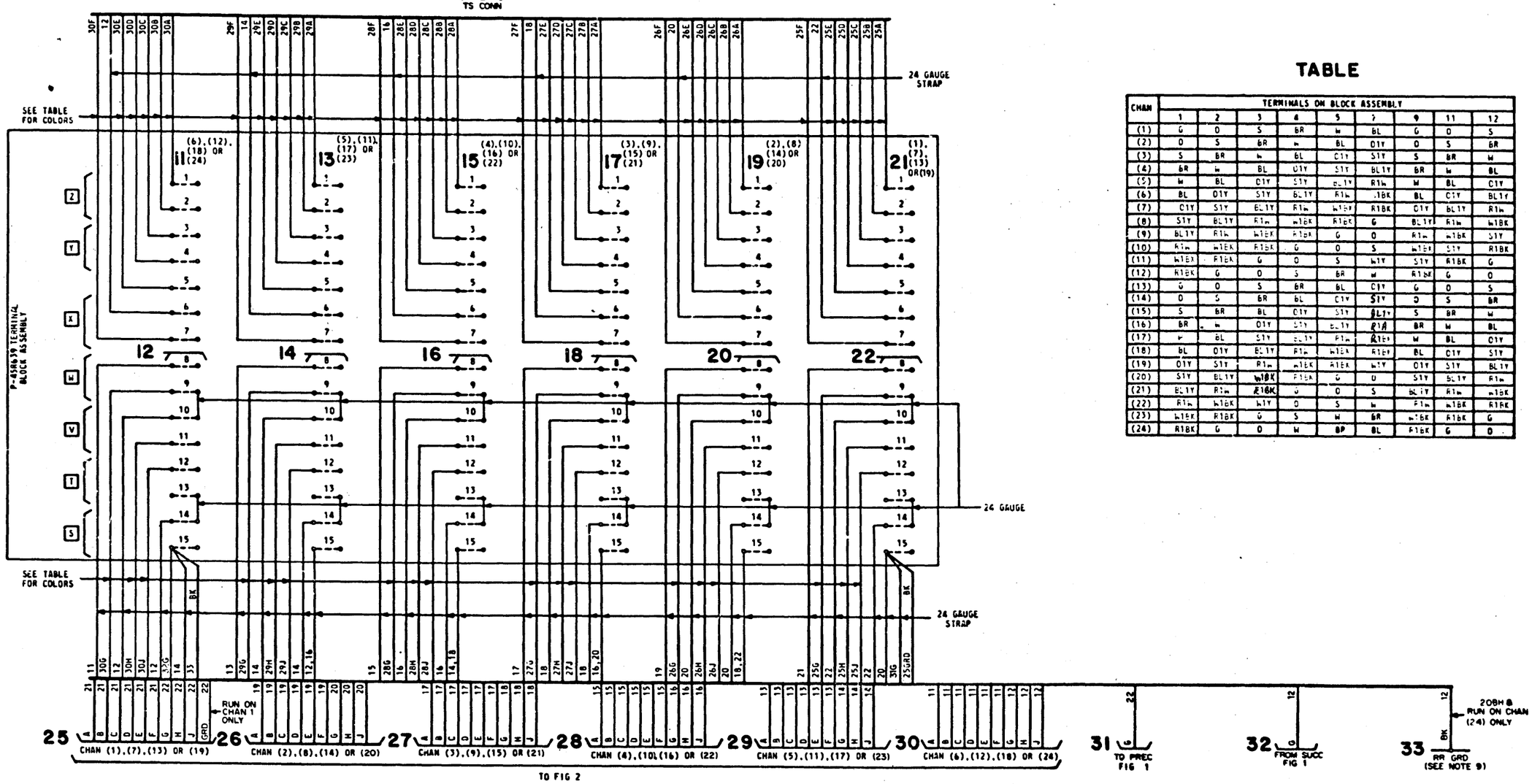
## MANUFACTURING NOTES CONVENTIONS

CABLE.

CONNECTION FURNISHED AS PART OF COMPONENT.

| SHOP | INST. | |
|---|---|---|
| | | 1- WIRES NOT OTHERWISE SPECIFIED TO BE 24BU. |
| | | 2- P - PAIR. |
| | | 3- 61 - TERMINAL NEAREST PANEL. |
| | | 4- 1W,2W,3W OR 4W - CONDUCTOR JUMPER WIRE. |
| | | 5- K1 - TOP OR LEFT TERMINAL ON STRIP. |
| | | 6- PT - LEADS FURNISHED WITH COMPONENT. |
| | | 7- LEADS SHOWN TERMINATED IN COMPONENTS WITHOUT TERMINALS ARE FURNISHED WITH COMPONENTS. |
| X | X | 8- SHOP TO EXTEND WIRE 12 INCHES PAST LEFT END OF MOUNTING PLATE, LOOKING AT REAR FOR CONNECTION TO NO. 6 BAY GROUND WIRE AS FOLLOWS: A) BY THE SHOP WHEN UNIT IS SHOP MOUNTED. B) BY THE INSTALLER WHEN UNIT IS FIELD MOUNTED. |
| X | X | 9- UNLESS OTHERWISE SHOWN, PIGTAIL LEADS OF RELAY WINDING NETWORKS SHALL CONNECT TO "U" & "L" RELAY WINDING TERMINALS. |
| X | X | 10- ALL WIRES IN FIGURES 3 THRU 26,28 AND LEADS e IN FIGURES 1 AND 2 ARE TO BE RUN BY THE INSTALLER. |
| | X | 11- INSTALLER SHALL ADJUST OPTION SCREWS S,T,V,W,X,Y & Z AS SPECIFIED BY THE TELEPHONE COMPANY. |
| | | 12- B - TERMINAL NEAREST BASE OF TERMINAL STRIP. |
| | X | 13- TO MAKE A TIMING CYCLE FROM 8 TO 15 SECONDS LONG, CONNECT EITHER 61 AND 62 OR 61 AND 63 OF CONNECTOR DURING CUSTOMER TEST IF THE FOLLOWING TIME CONSTANT IS IN EXCESS OF 15 SECONDS: |

FIG 1
TS CONN




## TABLE

| CHAN | TERMINALS ON BLOCK ASSEMBLY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 7 | 9 | 11 | 12 |
| (1) | G | O | S | BR | W | BL | G | O | S |
| (2) | O | S | BR | W | BL | O1Y | O | S | BR |
| (3) | S | BR | W | BL | C1Y | S1Y | S | BR | W |
| (4) | BR | W | BL | O1Y | S1Y | BL1Y | BR | W | BL |
| (5) | W | BL | O1Y | S1Y | BL1Y | R1W | W | BL | C1Y |
| (6) | BL | O1Y | S1Y | BL1Y | R1W | W1BK | BL | C1Y | BL1Y |
| (7) | O1Y | S1Y | BL1Y | R1W | W1BK | R1BK | O1Y | BL1Y | R1W |
| (8) | S1Y | BL1Y | R1W | W1BK | R1BK | G | BL1Y | R1W | W1BK |
| (9) | BL1Y | R1W | W1BK | R1BK | G | O | R1W | W1BK | S1Y |
| (10) | R1W | W1BK | R1BK | G | O | S | W1BK | S1Y | R1BK |
| (11) | W1BK | R1BK | G | O | S | W1Y | S1Y | R1BK | G |
| (12) | R1BK | G | O | S | BR | W | R1BK | G | O |
| (13) | G | O | S | BR | BL | O1Y | G | O | S |
| (14) | O | S | BR | BL | C1Y | S1Y | O | S | BR |
| (15) | S | BR | BL | O1Y | S1Y | BL1Y | S | BR | W |
| (16) | BR | W | O1Y | S1Y | BL1Y | R1W | BR | W | BL |
| (17) | W | BL | S1Y | BL1Y | R1W | W1BK | W | BL | O1Y |
| (18) | BL | O1Y | BL1Y | R1W | W1BK | R1BK | BL | O1Y | S1Y |
| (19) | O1Y | S1Y | R1W | W1BK | R1BK | W1Y | O1Y | S1Y | BL1Y |
| (20) | S1Y | BL1Y | W1BK | R1BK | G | O | S1Y | BL1Y | R1W |
| (21) | BL1Y | R1W | W1BK | R1BK | G | O | S | BL1Y | W1BK |
| (22) | R1W | W1BK | W1Y | O | S | W | R1W | W1BK | R1BK |
| (23) | W1BK | R1BK | G | S | W | BR | W1BK | R1BK | G |
| (24) | R1BK | G | O | W | BR | BL | R1BK | G | O |

SHEET / ISSUE
1
2
3

T-97093-31
SHEET 81

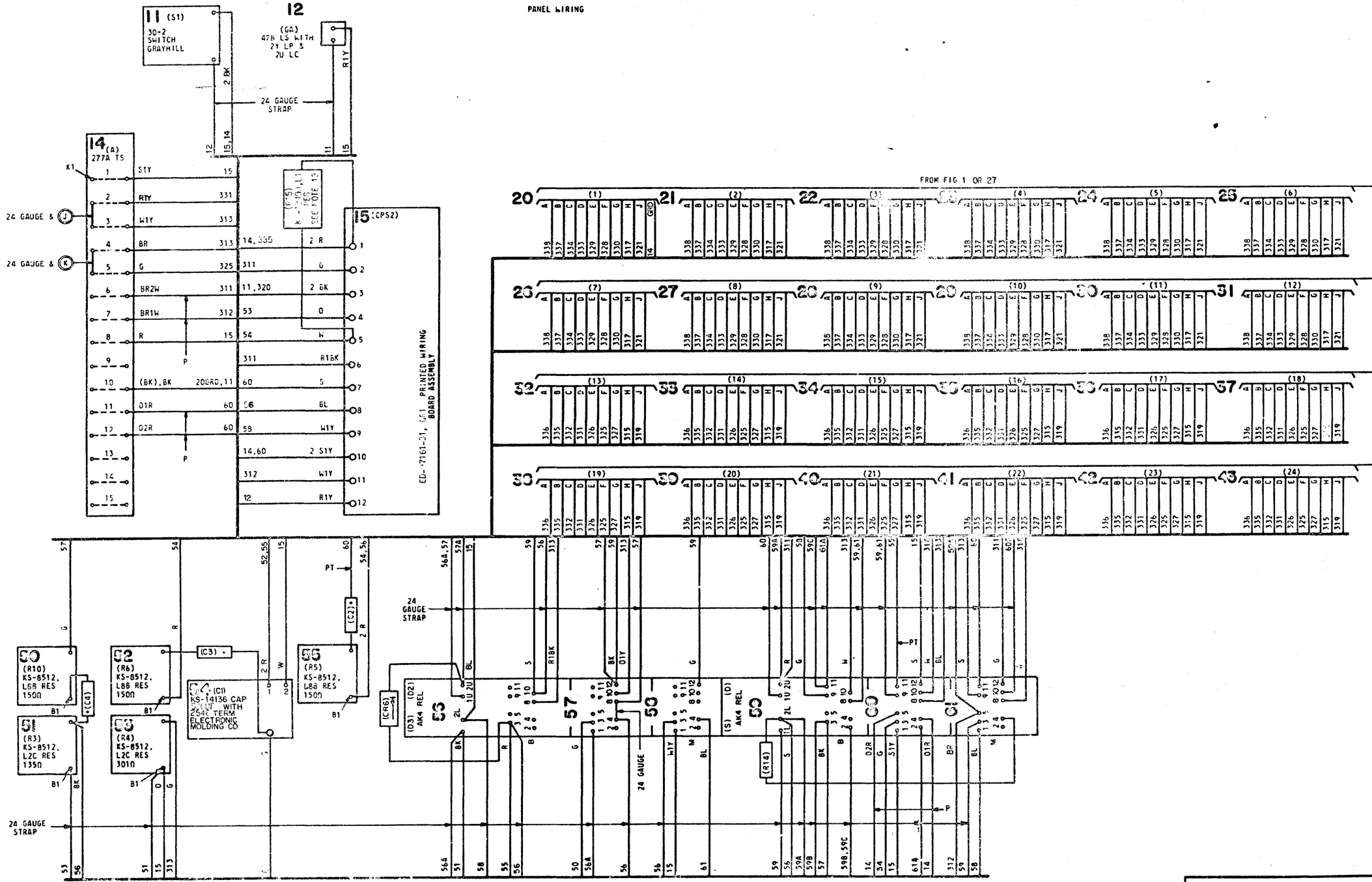
② 3

CARRIER GROUP ALARM CIRCUIT | T-97093-31 PRINTED IN U.S.A. | SHEET 81

WESTERN ELECTRIC COMPANY, INC. | DWG SIZE 6S

# FIG 2 CONTINUED

PANEL WIRING




T-97093-31 SHEET B2

| SHEET | ISSUE |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 5 | |
| 6 | |
| 7 | |

| | |
|---|---|
| CARRIER GROUP ALARM CIRCUIT | T-97093-31 PRINTED IN U.S.A. |
| WESTERN ELECTRIC COMPANY, INC. | DWG SIZE 65 |

② 7 SHEET B2

T-97093-31 SHEET B3

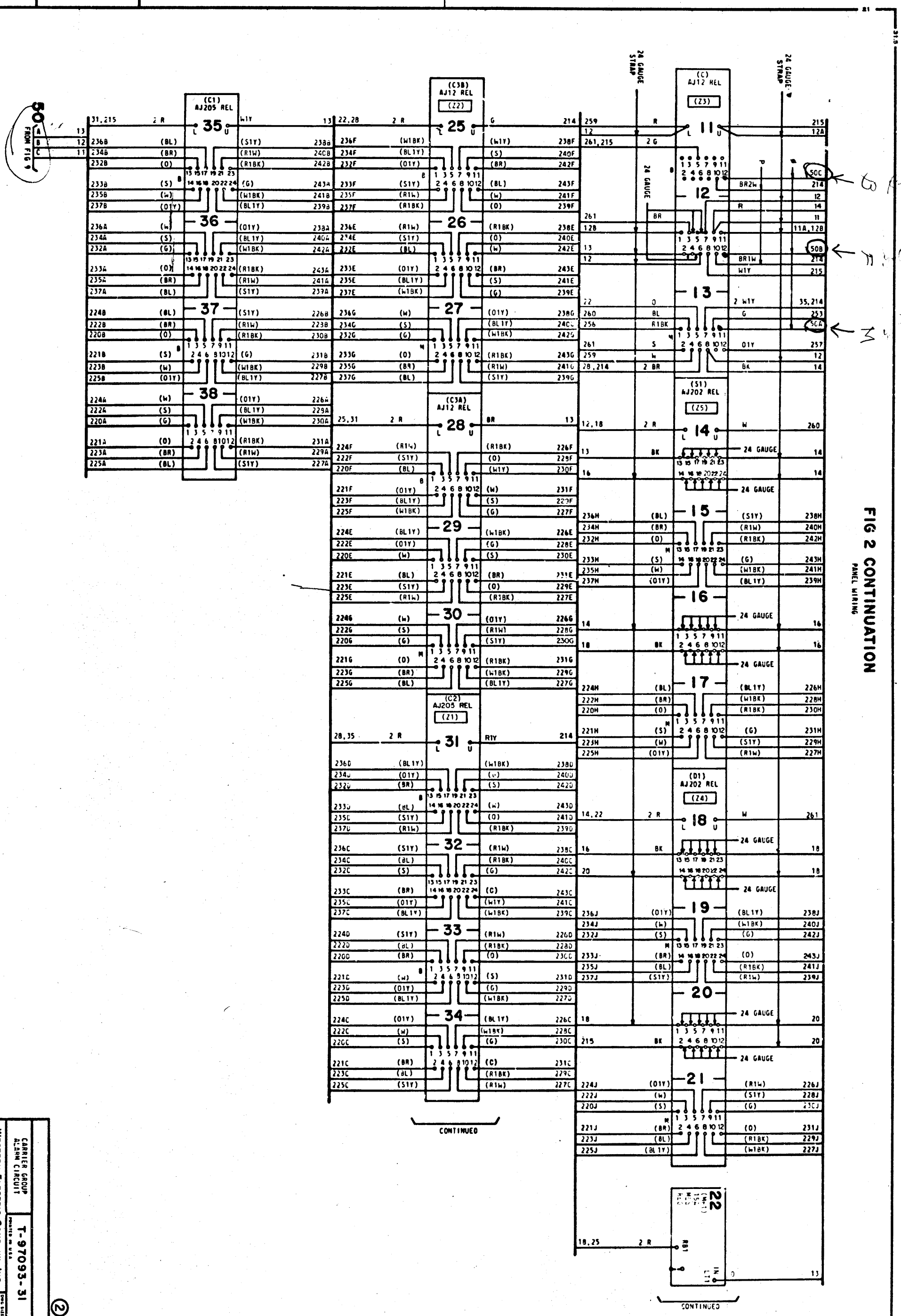
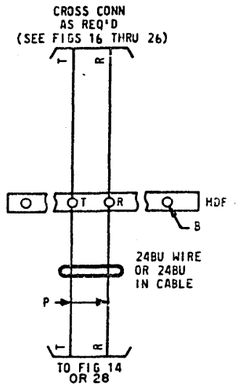



FIG 2 CONTINUATION
PANEL WIRING

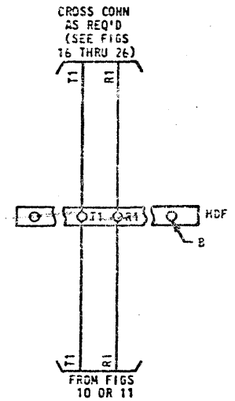
| | | | |
|---|---|---|---|
| WESTERN ELECTRIC COMPANY, INC. | CARRIER GROUP ALARM CIRCUIT | T-97093-31 | 3 |
| DWG SIZE 65 | PRINTED IN U.S.A. | SHEET B3 | ② |

J 2 — SHEET ISSUE

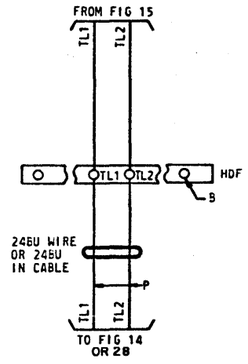
## FIG 3
CROSS CONN



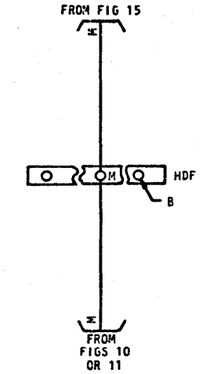

## FIG 4
CROSS CONN



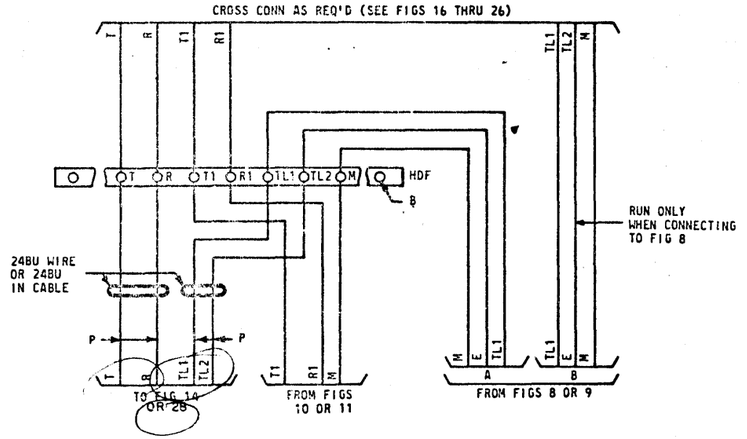

## FIG 5
CROSS CONN



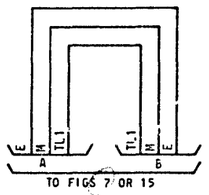

## FIG 6
CROSS CONN



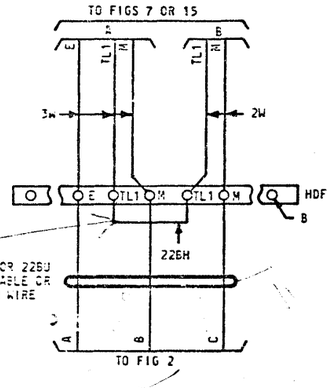

## FIG 7
CROSS CONN



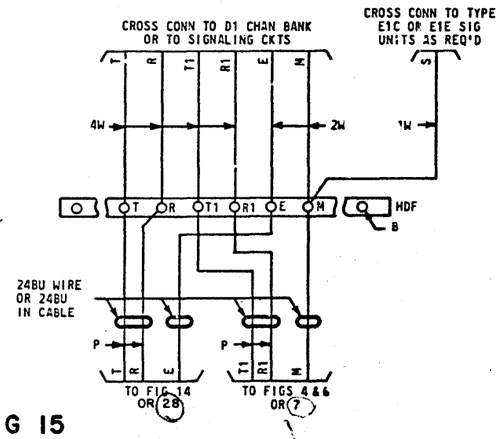

## FIG 8
CROSS CONN



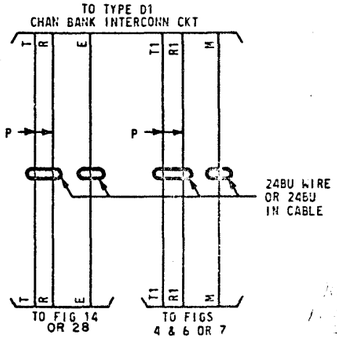

## FIG 9
CROSS CONN



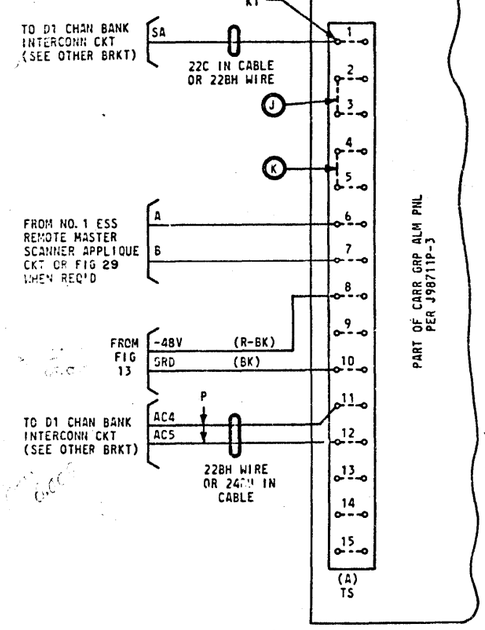

## FIG 10
CROSS CONN



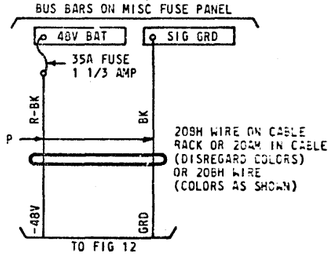

## FIG 11
CROSS CONN



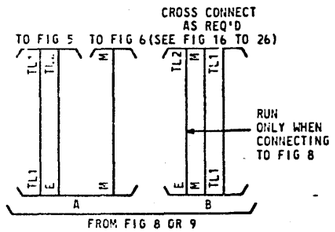

## FIG 12
CROSS CONN



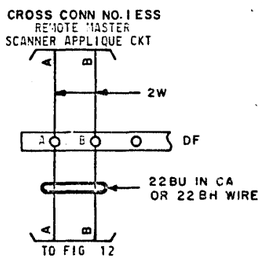

## FIG 13
48V PWR SUP &
SIG GRD




## FIG 15
CROSS CONN




## FIG 29
CROSS CONN

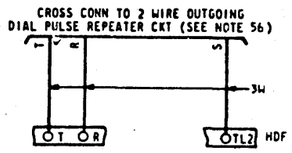




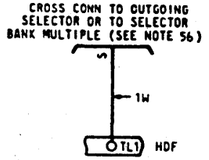

| | | |
|---|---|---|
| CARRIER GROUP ALARM CIRCUIT | T-97093-31 | SHEET B4 |
| WESTERN ELECTRIC COMPANY, INC. | DWG SIZE 6S | PRINTED IN U.S.A. |

MW-D TF294207

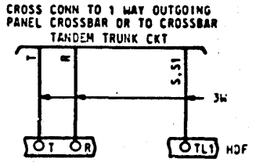
## FIG 16
CROSS CONN



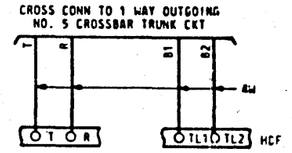

## FIG 17
CROSS CONN



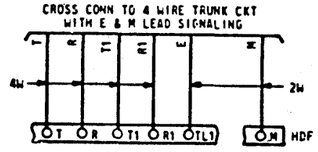

## FIG 18
CROSS CONN



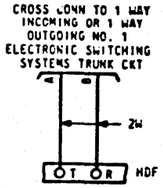

## FIG 19
CROSS CONN



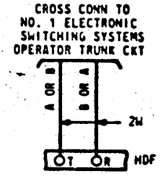

## FIG 20
CROSS CONN



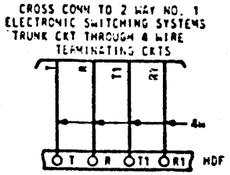

## FIG 21
CROSS CONN



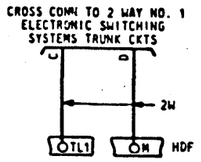

## FIG 22
CROSS CONN



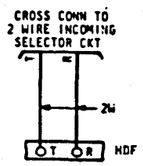

## FIG 23
CROSS CONN



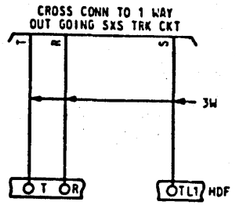

## FIG 24
CROSS CONN



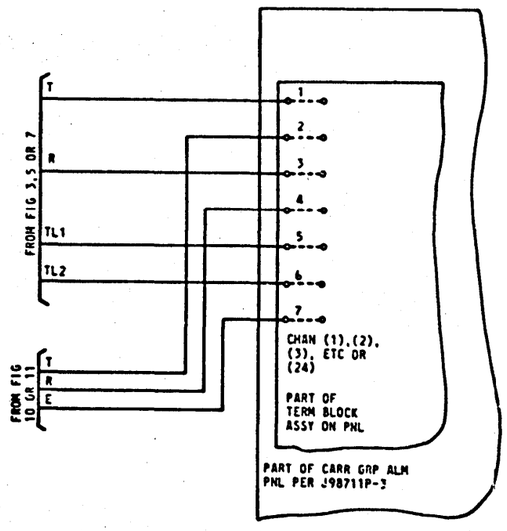

## FIG 25
CROSS CONN



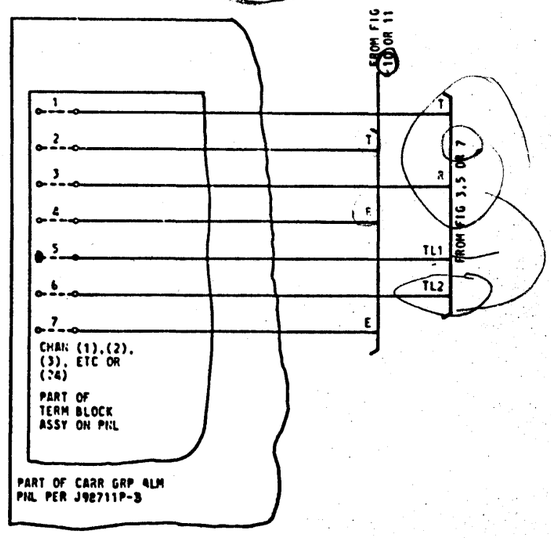

## FIG 26
CROSS CONN




## FIG 14 (WFR DISC)
CROSS CONN



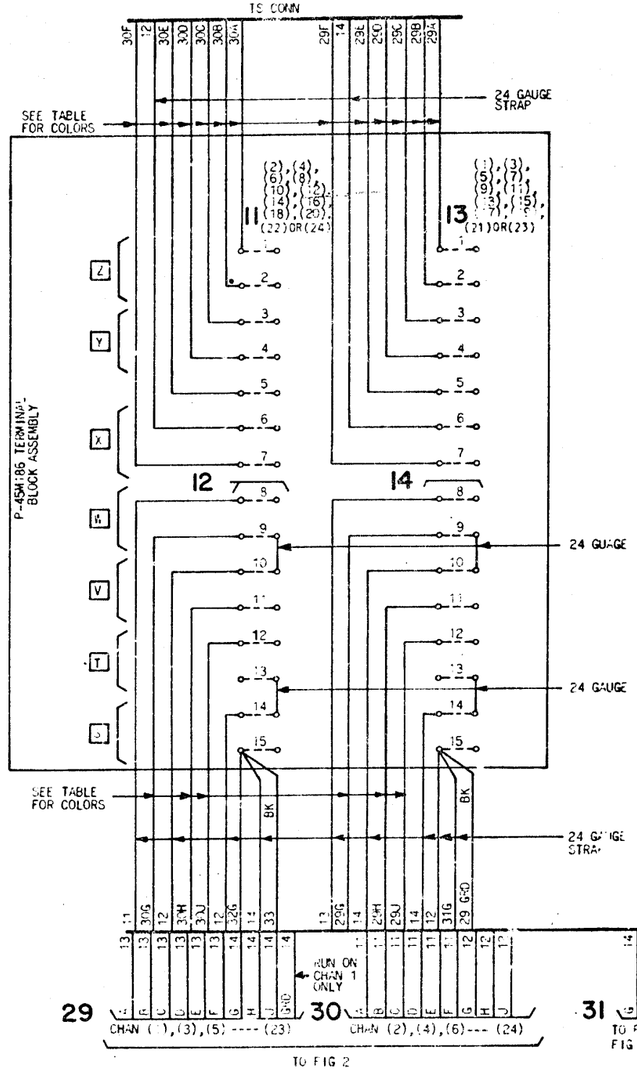

## FIG 28
CROSS CONN




T-97093-31
SHEET B5

| | | |
|---|---|---|
| CARRIER GROUP ALARM CIRCUIT | T-97093-31 PRINTED IN U.S.A. | ② 8 SHEET B5 |
| WESTERN ELECTRIC COMPANY, INC. | DWG SIZE 65 | |

# FIG 27




## TABLE

| CHAN | TERMINALS ON BLOCK ASSEMBLY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 7 | 9 | 11 | 12 |
| (1) | G | O | S | BR | W | BL | G | O | S |
| (2) | O | S | BR | W | BL | O1Y | O | S | BR |
| (3) | S | BR | W | BL | O1Y | S1Y | S | BR | W |
| (4) | BR | W | BL | O1Y | S1Y | BL1Y | BR | W | BL |
| (5) | W | BL | O1Y | S1Y | BL1Y | R1W | W | BL | O1Y |
| (6) | BL | O1Y | S1Y | BL1Y | R1W | W1BK | BL | O1Y | BL1Y |
| (7) | O1Y | S1Y | BL1Y | R1W | W1BK | R1BK | O1Y | BL1Y | R1W |
| (8) | S1Y | BL1Y | R1W | W1BK | R1BK | G | BL1Y | R1W | W1BK |
| (9) | BL1Y | R1W | W1BK | R1BK | G | O | R1W | W1BK | S1Y |
| (10) | R1W | W1BK | R1BK | G | O | S | W1BK | S1Y | R1BK |
| (11) | W1BK | R1BK | G | O | S | W16 | S1Y | R1BK | G |
| (12) | R1BK | G | O | S | BR | W | R1BK | G | O |
| (13) | G | O | S | BR | BL | O1Y | G | O | S |
| (14) | O | S | BR | BL | O1Y | S1Y | O | S | BR |
| (15) | S | BR | BL | O1Y | S1Y | BL1Y | S | BR | W |
| (16) | BR | W | O1Y | S1Y | BL1Y | R1W | BR | W | BL |
| (17) | W | BL | S1Y | BL1Y | R1W | W1BK | W | BL | O1Y |
| (18) | BL | O1Y | BL1Y | R1W | W1BK | R1BK | BL | O1Y | S1Y |
| (19) | O1Y | S1W | R1W | W1BK | R1BK | W1Y | O1Y | S1Y | BL1Y |
| (20) | S1Y | BL1Y | W1BK | R1BK | G | O | S1Y | BL1Y | R1W |
| (21) | BL1Y | R1W | R1BK | G | O | S | BL1Y | R1W | W1BK |
| (22) | R1W | W1BK | W1Y | O | S | W | R1W | W1BK | R1BK |
| (23) | W1BK | R1BK | O | S | W | BR | W1BK | R1BK | O |
| (24) | R1BK | O | O | W | BR | BL | R1BK | O | O |