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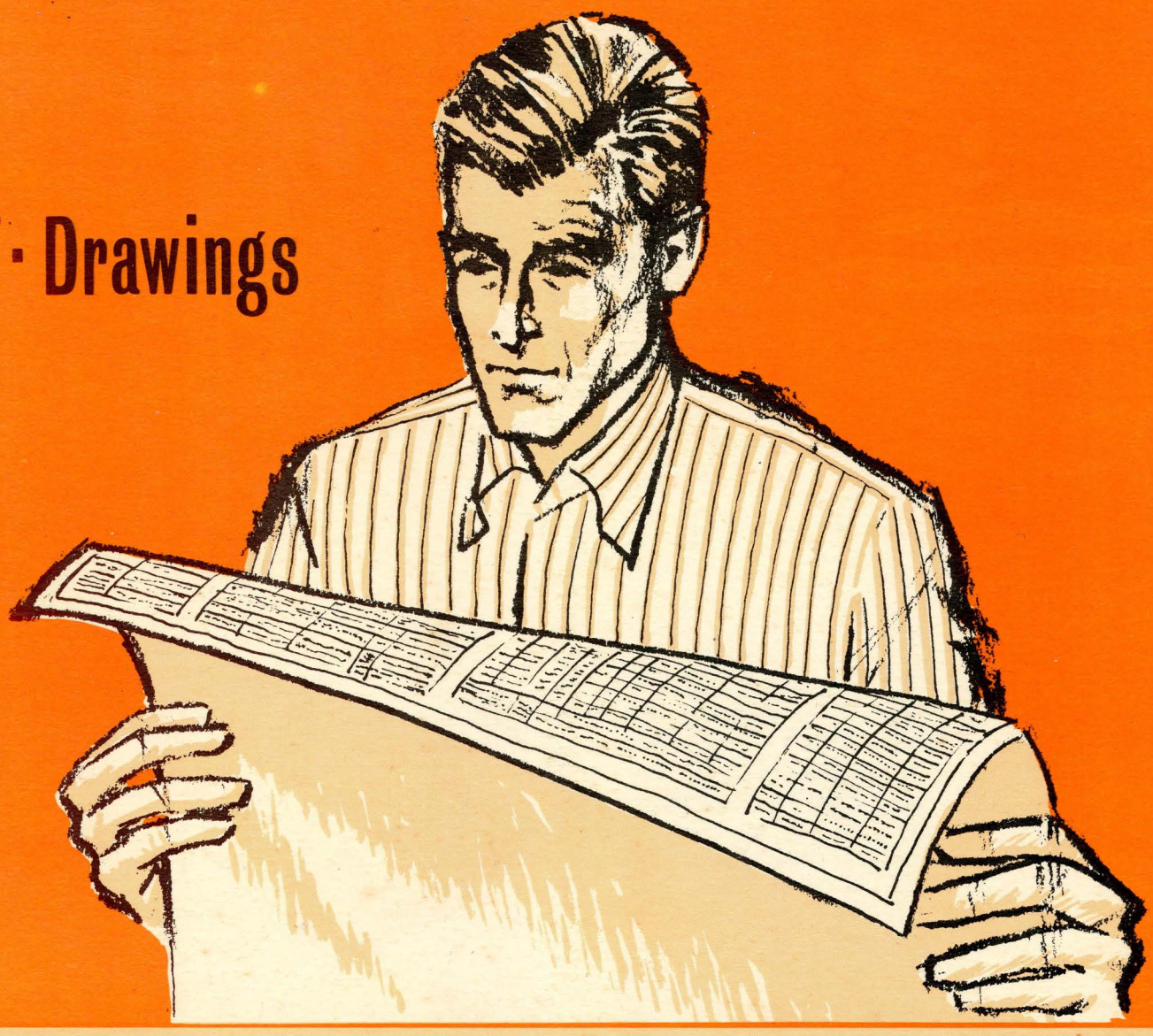
Section 2

T · Drawings



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First Edition

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Training Manual · 1000
Section 2
T Drawings

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Section 2

"T" DRAWINGS

LESSON NUMBER	SUBJECT
1	"T" DRAWINGS - Title Block & Issue Notes
2	"T" DRAWINGS - Manufacturing & Engineering Notes - Sheet Index
3	"T" DRAWINGS - Tables
4	"T" DRAWINGS - Point-to-Point Method
5	"T" DRAWINGS - Highway Method
6	"T" DRAWINGS - Airline & Simplified Airline Method
7	"T" DRAWINGS - Wiring Symbols, Wiring Abbreviations Definitions of Wiring and Cabling.
8	"T" DRAWINGS - Tabular "T" Method.
	Drawing T-3D007-11 (Attachments A, B, C, and D)
	Drawing T*65752-16 (Attachments E, F, G, H, and J)

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LESSON NO. 1

"T" DRAWINGS

TITLE BLOCK & ISSUE NOTES

Objectives :

At the conclusion of the lesson you will be able to :

Identify the items which appear in the Title Block of a Western Electric Company Wiring Diagram or "T" Drawings.

Identify the Issue Notes and interpret the information contained in the notes.

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The Title Block similar to that shown in Figure 1 will generally contain the following information :

Drawing Title	See A, Fig. 1
Drawing Number	See B, Fig. 1
Sheet Number	See C, Fig. 1
Number of Sheets	See D, Fig. 1
Drawing Rating	See E, Fig. 1
Issue Number	See F, Fig. 1

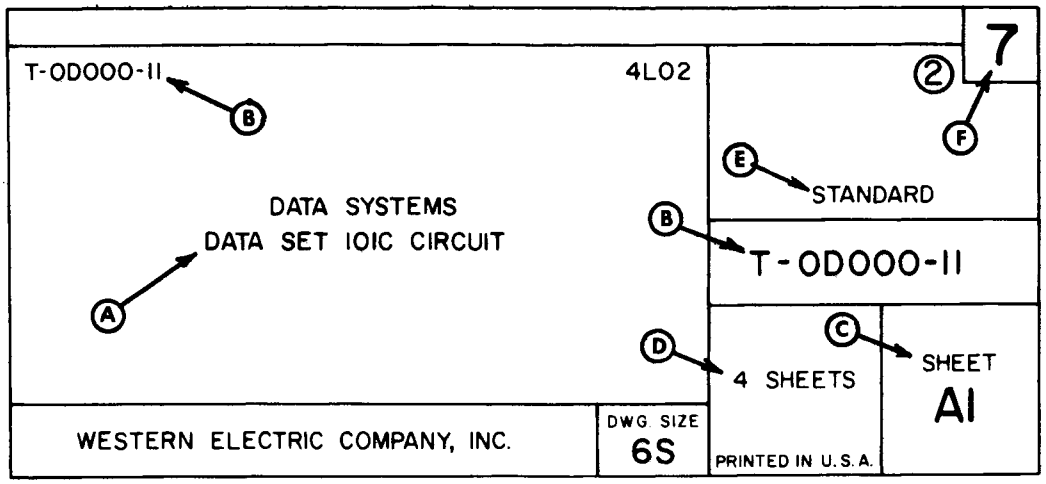

FIG. 1

Base numbers of "T" drawings will be the same as base number of S.D. drawings when prepared from Bell Telephone Laboratories Drawings.

Figure 2 is an illustration of actual S.D. and T drawing numbers.

Schematic Diagram	Wiring Diagram
SD-3D007-01	T-3D007-11

Fig. 2

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The sheet issue number will generally be found in a block at the upper right hand corner of the title block.

It is important that the latest issue of a drawing be used in the repair, modification or conversion of the equipment covered by the drawing.

The sheet number and number of sheet contained in a wiring diagram appear in the lower right hand corner of the Title Block.

Generally the first sheet will be the only sheet to indicate the total number of sheets in a drawing.

All drawings used throughout the Bell System must be rated.

Two ratings will concern users of T drawings Standard and Manufacture Discontinued.

Manufacture Discontinued indicates that equipment is no longer manufactured at the factory; however, it is still in use in the field.

Standard indicates that the drawing agrees with any material published by AT & T on the equipment.

Issue notes indicate, in most cases, all the changes that have been incorporated in a drawing since the original drawing was issued.

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LESSON NO. 2

"T" DRAWINGS

MANUFACTURING AND ENGINEERING NOTES

SHEET INDEX AND ISSUE TABLE

SHEET INDEX NOTES

Objectives :

At the conclusion of this lesson you will be able to :

Locate Manufacturing and Engineering Notes on the wiring diagram.

Identify symbols used in conjunction with Manufacturing Notes.

Determine if the manufacturing note relates to the Shop or Installation.

Identify the Sheet Index and Issue Table and Sheet Index Notes. Interpret the information contained in the table and its use.

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Manufacturing Notes are found on first sheet of the drawing or the first or second sheet if required.

They are numbered in sequence beginning with Note 1.

Manufacturing Notes may contain information which will apply to the Shop or Installation or it will be general information.

To indicate if a note applies to the Shop or to Installation an "X" is placed in either of two columns, which run vertically alongside the notes.

Figures 1 and 2 are examples of Manufacturing Notes.

SHOP	INST	MANUFACTURING NOTES
X		1. WIRES NOT OTHERWISE SPECIFIED TO BE 24BU.
X		2. "SWI" WIRING TO BE 24BW COLORED GREEN UNLESS OTHERWISE SPECIFIED AND RUN AS SURFACE WIRING.
X		3. "P" DENOTES PAIR.
X		4. "PT" DENOTES LEADS PART OF APPARATUS.
	X	5. NO LEADS ON THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT LEADS DESIGNATED ∅ AT TERMINAL STRIP.

A

Fig. 1

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SHOP	INST	MANUFACTURING NOTES
X		1. WIRES NOT OTHERWISE SPECIFIED TO BE 24BU.
		2. "SWI" WIRING TO BE 24BW COLORED GREEN UNLESS OTHERWISE SPECIFIED AND RUN AS SURFACE WIRING. (A)
X		3. "P" DENOTES PAIR.
X		4. "PT" DENOTES LEADS PART OF APPARATUS.
	X	5. NO LEADS ON THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT LEADS DESIGNATED ∅ AT TERMINAL STRIP.
X	X	6. SHOP SHALL FURNISH "S","Y" & "Z" WIRING IN ALL CASES. (B)
		(A) INSTALLER SHALL REMOVE "S" WIRING AND ADD "R" WIRING WHEN CO NOMINAL VOLTAGE IS 39V OR LESS.
		(B) INSTALLER SHALL REMOVE "S" WIRING AND ADD "X" WIRING FOR ATTENDENT RESTRICTED.

Fig. 2

When no "X" is placed in either column this indicates that the note is general information. See A Figure 2.

In some instances an "X" will be in both columns, this indicates that the note is for both Shop and Installation. See B, Figure 2.

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SHOP	INST	MANUFACTURING NOTES
		DENOTES SHIELD CONNECTION
		DENOTES SPLICE
		DENOTES CABLE
		1. ALL WIRING TO BE 24BW COLORED GREEN UNLESS OTHERWISE SPECIFIED.
		2. "F" "F1" BRING FROM CABLE AT SEPARATE STITCH.
X	X	3. LEADS SHOWN TERMINATED IN COMPONENTS WITHOUT TERMINALS ARE FURNISHED WITH COMPONENTS.
		4. SHIELDED WIRE TO BE #120 TX17-VL TENSULITE INSULATE WIRE, JUFLON CO.
		5. "D2" WIRE TO BE 24BW COLORED GREEN AND RUN AND DRESSED IN PATHS AS SHOWN ON J1D101B-1.
X		6. THE SHIELD TERMINATIONS AT THE FILTERS & 210A TERM WILL BE LEFT UNCONNECTED.
X		7. SLEEVE BOTH ENDS OF THE SHIELDED WIRE CONNECTIONS WITH SLEEVING PER KS17831.

FIG. 3

Whenever any symbols are shown as in Figure 3, generally no note number will be assigned.

However if a symbol is shown in the Manufacturing Notes there will always be a definition given with the symbol.

If a student should encounter a symbol without the definition, the definition can be found in Bell System Practice Section 005-15C-101.

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Engineering Notes can include the following :

List of connecting drawings.
Reference to associated equipment drawings.
Reference to tables found on the drawing Wiring Options.

Engineering Notes are intended for the use of the Engineer but can be useful to the Shop or Installation.

Eng neering Notes begin with the number 51 and certain notes have been assigned a specific function.

They are as follows :

Note 51 shall be reserved for Western Electric Co. use.

Note 52 shall be reserved for listing connecting drawings.

Note 53 shall be reserved for listing equipment drawings.

Note 76 shall be reserved for explaining a deviation when the Sheet Index Table shows the designation MOD.

Note 77 shall be reserved for explaining an omission when it appears in the Sheet Index Table.

The Sheet Index Table (Table A) is a chart which lists all the sheets that have been issued under a specific drawing number.

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It will also indicate the latest issue number of each sheet and the equivalent issue between the Bell Telephone Laboratories Schematic and the wiring diagram.

An example of a typical Sheet Index and Issue Table is shown on T-3D007-11.

This table indicates that Sheet A1 has been revised seven times and that the schematic diagram equivalent is Issue 2 MOD.

The designation MOD is shown only when there is a deviation between a wiring diagram and the schematic.

As was previously stated earlier in this lesson whenever the designation MOD is used, the Engineering Note 76 is used to explain what the deviation is.

Generally the same Sheet Index Notes which are shown on T-3D007-11 appear on all Wiring Diagrams or "T" Drawings.

They can, for all practicable purposes, be considered a set of rules which govern the sheets contained in a drawing and the sheet Index. They do not generally apply to the user of the drawing but primarily to the Engineer responsible for reissuing the individual sheets or the complete drawing.

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LESSON NO. 3
"T" DRAWINGS
TABLES

Objectives :

At the conclusion of this lesson you will be able to :

Identify the tables and interpret the information contained in the tables.

Determine the relationship between these tables.

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The following are a list of tables that will be found on a wiring diagram :

Record of Figure, Apparatus and Wiring Changes.

Wiring Diagram - Schematic Cross Reference.

Sheet Location of Figures and Options.

Feature Table.

Fuse Requirements.

Cabling Table.

Distributing Frame Requirements.

Interrupter Requirements.

Tables are sometimes referred to as Table B, Table C, etc. Since inconsistancies exist in identifying these tables, they are referred to by their titles.

The code letters which are more commonly used, will be shown in parentheses.

Using the T-3D007-11 wiring diagram provided with this manual, the Record of Figures, Apparatus, and Wiring Changes Table (Table B) indicates the following :

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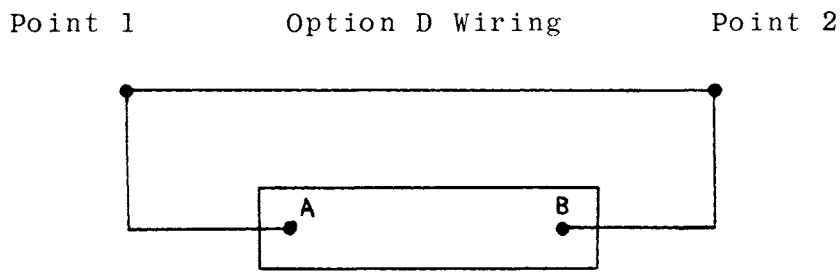
A. Options which affect "T" Drawing and necessitate the reissue of the drawing.

B. Issue of the drawing these options became Standard.

Table B on T-3D007-11 indicates that Option B and C Wiring became Standard on Issue 3 of the drawing (See A, T-3D007-11). It also indicates that Option D was Manufacture Discontinued (MD) on the same issue.

Prior to Issue 3, Option D did not exist as an option, however, it did exist as part of the circuit. The introduction of Option B and C Wiring formulated Option D.



Option B, C Wiring

Fig. 1

To explain this briefly, using Figure 1. A wire which runs between points 1 and 2 of a circuit is an original part of the circuit. As an improvement of this circuit a change is introduced. This change will be called Option B and C. The change will now have a wire running from point 1 to point A and from point B to point 2.

With this, the wire running between point 1 and point 2 became option D.

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The table mentions Office Records. To Service Center personnel, Office Records are actually "J" Drawing Lists. This being the case the table reads as follows :

> If the "J" Drawing Lists do not specify Option B, C Wiring then Option D Wiring was furnished. This change was initiated on Issue 3 of the drawing when Option B, C Wiring was made Standard and Option D was Manufacture Discontinued (MD). MD meaning that units received new from the factory will no longer be furnished with Option D Wiring.

Again using the T-3D007-11 wiring diagram, the Schematic-Wiring Diagram Cross reference Table (Table C) indicates the relationship between sheets of a schematic diagram and a wiring diagram.

As an example :

> Figure 1 of the schematic diagram is found on sheets B1, B2 and B3. The corresponding information on the wiring diagram is also in Figure 1 and is found on Sheets 30, 31 and 32. (See B, T-3D007-11).
>
> Option B which is shown on Line 11, is found in Figure 1 on Sheet B3 of the schematic diagram. This same Option B is found on Sheets 30 and 31 of the wiring diagram. (See C, T-3D007-11).

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SHEET LOCATION OF FIG. AND OPT.					
FIG.	APPEARS ON SHEET	OPT	APPEARS ON SHEET	OPT	APPEARS ON SHEET
1	3,4,5	A	3,5	ZD	5
		E	3,4,5	ZH	4
		F	3,4,5	ZJ	3,4,5
		G	3,5	ZL	3,4
		H	3,5	ZN	3
		R	3	ZP	3,5

FIG. 2

The Sheet Location of Figures and Options Table (Table D) will simply relate on what sheet of a "T" Drawing the Figures and Options appear.

As an example :

Option ZN appears on Sheet 3 of the drawing.

The Feature Table (Table D) will generally provide the following information : (See D, T-3D007-11)

A. An option will be assigned an item number.

B. It will indicate on what issue of the SD the option was applied.

C. It will give a brief description of what the option will provide.

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D. It will indicate the Figure on the drawing affected by the option and if the option is wiring, apparatus or both.

E. It will indicate quantity required.

The Fuse Requirements Table (Table F) will provide all fuse requirements for the circuits covered by the "T" Drawing. (See Figure 3)

TABLE F									
FUSE REQUIREMENTS									
ITEM	FIG	OPT	FUSE		POTENTIAL	DESIG	QUAN	LOCATION	REMARKS
			AMP	CODE					
COL	A	B	C	D	E	F	G	H	J

Fig. 3

The Cable Table (Table G) shown on T-3D007-11 is a typical cable table used on wiring diagrams.

The cable table can vary slightly as shown in Figure 4. In this table more information is given. The cable designation is given for each cable.

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TABLE G													
CABLING													
ITEM	FIG	OPT	LEADS PER FIG	CABLES PER UNIT	CODE	FROM	CA DESIG	EQUIP LOC		TO	CA DESIG	EQUIP LOC	REMARKS
COL	A	B	C	D	E	F	G	H		J	K	L	M
1	HB		12	1/FR	811A	JSF	SC-1	(OC)(1C) T.S.		MS			CA IN SHIELD 2
	HA		2					(MISC) T.S.					PART OF T*1A129-53
3	HB		8	1/FR	811A	JSF	SC-3	(OC) T.S.		CIDF		TS	CA IN SHIELD 3
4	HD	HA				TN()JS()	SC-4	SW 10-17	GRID 0 & GRID 1	JGF		FILE TN ()	SEE NOTE 55 CA IN SHIELD 3 MFR DIS PER ISS 12 OF THIS DWG
							SC-5		GRID 2 & GRID 3				
5	HD					TN()JS()	SC-6 SC-8	SW 10-17	GRID 0 & GRID 1	JGF		FILE TN ()	SEE NOTE 55 CA IN SHIELD 3
							SC-7 SC-9		GRID 2 & GRID 3				
6	HD	HB				TN()JS()	SC-10 SC-12	SW 10-17	GRID 0 & GRID 1	JGF		FILE TN ()	SEE NOTE 55 CA IN SHIELD 3
							SC-11 SC-13		GRID 2 & GRID 3				

This may also be classified as a typical cable table.

The Distributing Frame Requirements Table (Table H) is generally used when the "T" Drawing covers PBX Equipment. It will provide information regarding the equipment required on this frame when used in various applications.

There are other tables which occasionally will be used on wiring diagrams. These tables may be assigned any number of titles and code letters. To go into detail in explaining these various tables would serve no useful purpose. The object of this lesson has been to expose the learner to those tables which are more commonly used.

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LESSON NO. 4

"T" DRAWINGS

POINT-TO-POINT (FULL LINE) METHOD

Objectives :

At the conclusion of this lesson you will be able to :

Identify and use a wiring diagram that employs the Point-to-Point or Full Line method of preparation.

Identify the various shaped figures that represent components.

Trace any number of wire leads found on this type wiring diagram.

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The Point-to-Point or Full Line method derives its name from its basic method of tracing a connection between two points by the use of a separate and continuous line for each wire.

Generally a series of notes are associated with a Point-to-Point wiring diagram. These notes will relate to the figure and provide information regarding soldering methods, splicing, cabling, etc. References to these notes will generally be found somewhere on the drawing.

The notes were the forerunner to the Manufacturing Notes covered in Lesson 2.

By examining Typical Wiring Diagram #1, one can readily see that the full line wiring diagram could very easily become burdensome as the apparatus was made more complex. To determine the path of any lead it is necessary to start at a given terminal of any component and physically trace this lead to its terminating point on another component. The more complex the apparatus became the more leads were involved and the more confusing the wiring diagram was to use. As a result of this complex apparatus the Highway System Methods was introduced in preparing wiring diagrams.

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Ⓐ Components are represented by either a circle or rectangle.

Ⓑ Each component will indicate terminal numbers. These numbers should agree with those shown on schematic drawing or component itself.

Ⓒ All components will be identified by a functional designation.

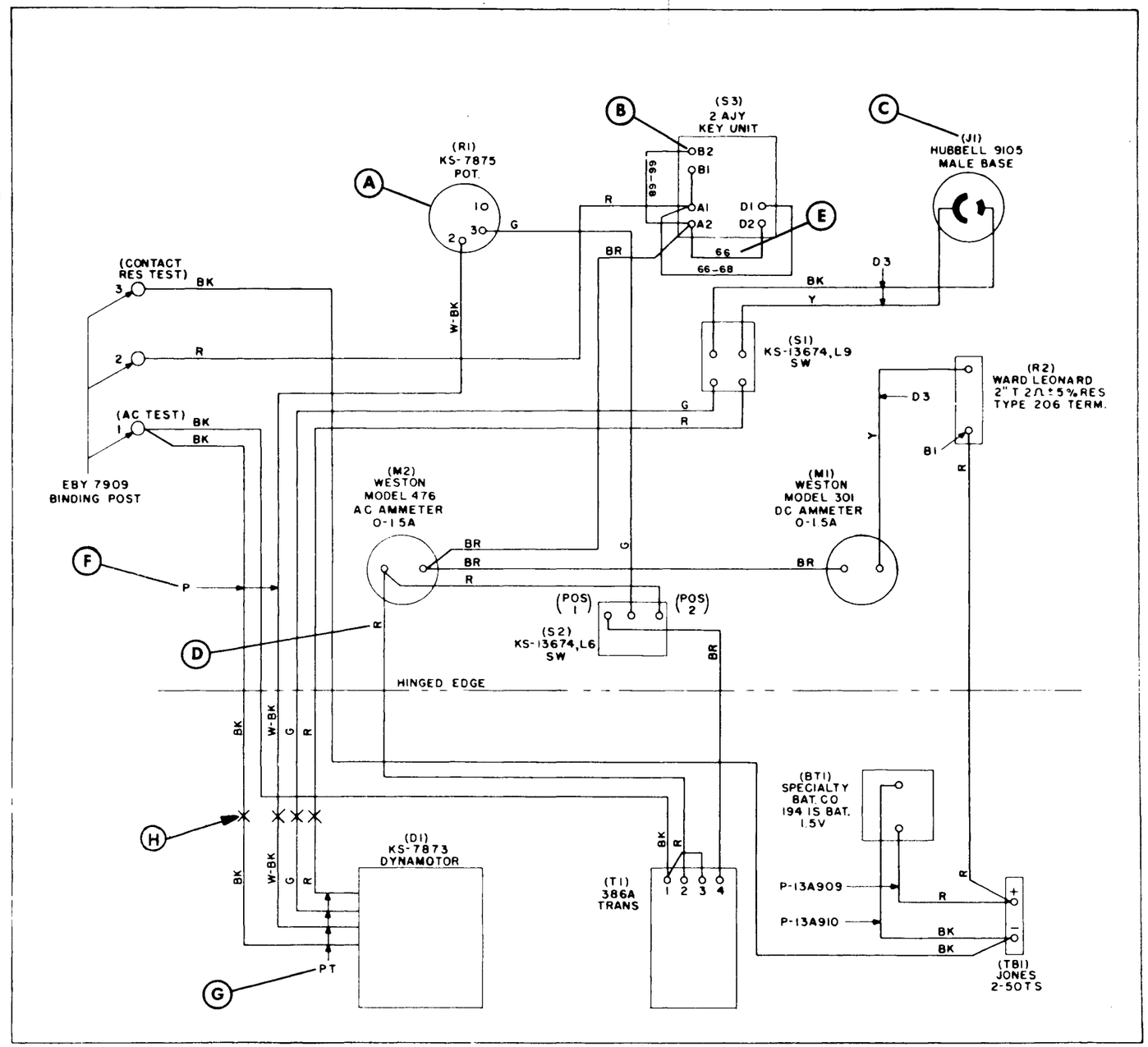
Ⓓ All leads will be color designated.

Ⓔ When no color designation is given, but another number is shown this indicates an item number. Item numbers can represent strapping, sleeving or other items.

Ⓕ Letter "P" indicates paired wires.

Ⓖ Letter "PT" indicates that these wires are furnished with component. Also known as pigtail leads.

Ⓗ X indicates splice



Typical Point-to-Point (Full Line) Method Wiring Diagram

TYPICAL WIRING DIAGRAM # 1

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LESSON NO. 5
"T" DRAWINGS
HIGHWAY METHOD

Objectives :

At the conclusion of this lesson you will be able to :

Identify and use a wiring diagram that employs the Highway Method of preparation.

Identify the various shaped figures that represent components.

Trace any number of wire leads found on this type wiring diagram.

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Generally, components symbols are shown as rectangles drawn with a heavy line. The windings, filaments, contacts and spring combinations are shown within these rectangles.

A functional designation is used to identify the components.

The components and wiring generally are arranged in one or more designated figures. Usually the size of the circuit determines the number of figures required.

All lines representing wire leads in a Highway Method drawing will be classified either Feed Lines or Highway Lines.

Feed Lines are individual wires coming from each component. Usually these lines are a short distance and then merged into a Highway line.

Feed Lines merge into a Highway at an angle of 60° and in such a manner as to indicate the direction of travel through the Highway.

All Feed Lines are arbitrarily numbered beginning with number one. This number is generally referred to as an identification number.

The same identification number will appear at the two Feed Lines representing the originating and terminating ends of a connection.

Generally there will not be more than (99) Feed Lines merged into the same Highway.

More than one Highway may be used on a wiring diagram. If a drawing employs two or more highways they are prominently designated A, B, C, etc.

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Most Highway drawings will include a table which is generally located above the title block that will indicate the highest numbered Feed Line in each Highway.

Each wire lead will be color designated at both the originating and terminating ends.

Straps between terminals of the same or adjacent components are not run into a highway, but instead are run direct.

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(A) Windings, filaments, contacts and spring combinations are shown within components.

(B) Functional designation, same type used in point-to-point drawing.

(C) Feed Lines.

(D) Angle feed line merges into highway.

(E) Feed Line Identification Number. Originating and Terminating ends.

(F) Feed Line Table.

(G) Highway designations.

(H) Highway bracket and designated when highway is common to two figures.

(I) Wire lead color designation.

(J) Straps not run into highway on the same or adjacent components.

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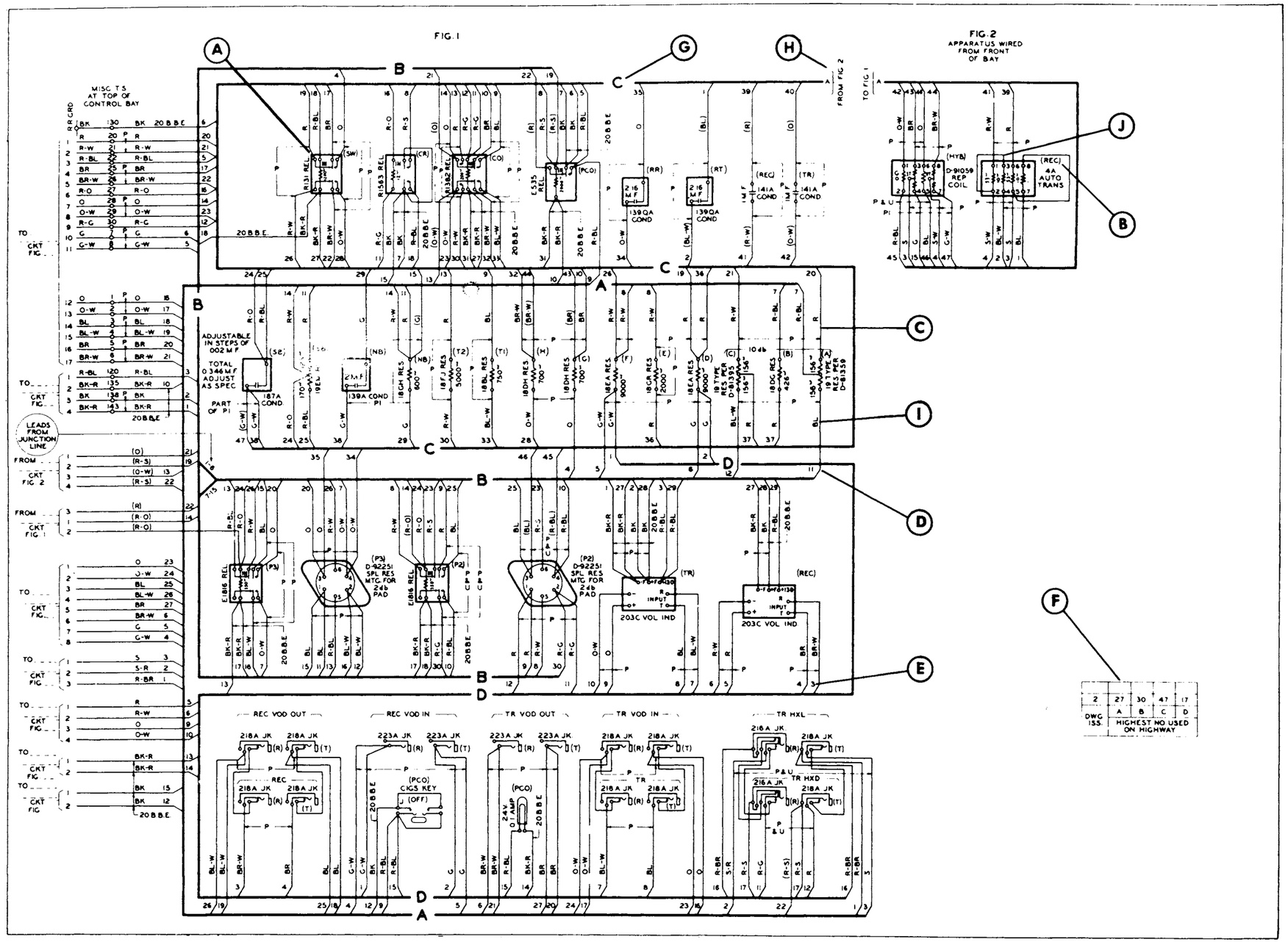

Typical Highway Method Wiring Diagram

TYPICAL WIRING DIAGRAM # 2

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LESSON NO. 6

"T" DRAWINGS

AIRLINE AND SIMPLIFIED AIRLINE

METHOD

Objectives :

At the conclusion of this lesson you will be able to :

Identify and use a wiring diagram that employs the Airline or Simplified Airline Method.

Trace any wire lead found on these type wiring diagram.

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Basically the components or apparatus on an Airline drawing are arranged in the same manner as on the Highway method.

Each component or portion of a component in the Airline Method is designated with a Location Number. (See (A) on typical wiring diagram #3.)
These Location numbers are assigned consecutively for the entire drawing, from left to right, and top down for each figure.

When more than one sheet per drawing is used, the connections between components on different sheets can be shown direct by the use of these Location numbers. This is accomplished by assigning Location numbers 1 to 99 for the first sheet, 100-199 for the second sheet, 200-299 for the third sheet, etc.

This is only one of the systems used in assigning Location numbers. T-3D007-11 employs the systems where the page number precedes the location number.

Generally when a multisheeted drawing is used which assigns location numbers as described above, a table will be shown depicting these assignments.

Drawing No.	Location No.
T-65752-11	1-99
-12	100-199
-13	200-299
-14	300-399
-15	400-499

Fig. 1

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Figure 1 represents a typical table used to show Location Number assignments.

Feed lines which represent wire leads are basically the same in the Airline Method as in the Highway Method. They do differ in that they merge into a Base Line instead of a Highway line and at a 90° angle instead of a 60° angle. (See (C) on typical wiring diagram #3.)

All Feed Lines will have a color designation unless it is SW1 surface wire. The gauge of the surface wire will be indicated in the Manufacturing Note. (See (C) on typical wiring diagram #3.)

All the miscellaneous apparatus, such as cord fasteners, terminal punchings, etc., are not assigned individual Location numbers, but, instead, are arranged in groups. The extent of each group is indicated by a bracket, and then each bracket is given one location number. (See (B) on typical wiring diagram #3.)

With a few minor exceptions the Simplified Airline Method is essentially the same as the Airline Method.

These minor exceptions are as follows :

1. Windings, spring and contact symbols are omitted from the component symbols.

2. One Feed Line will generally represent all wires, both surface and local cable wiring.

3. Pairing of wires may be shown in a table instead of using the symbol directly on the drawing.

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4. All relay terminals will be numbered as on an SD Drawing. These numbers of course do not appear on the actual relay.

The Typical Simplified Airline Wiring Diagram shows these minor differences.

The guide that is also included in the section will aid the student in reading both the Airline and Simplified Airline Wiring Diagram.

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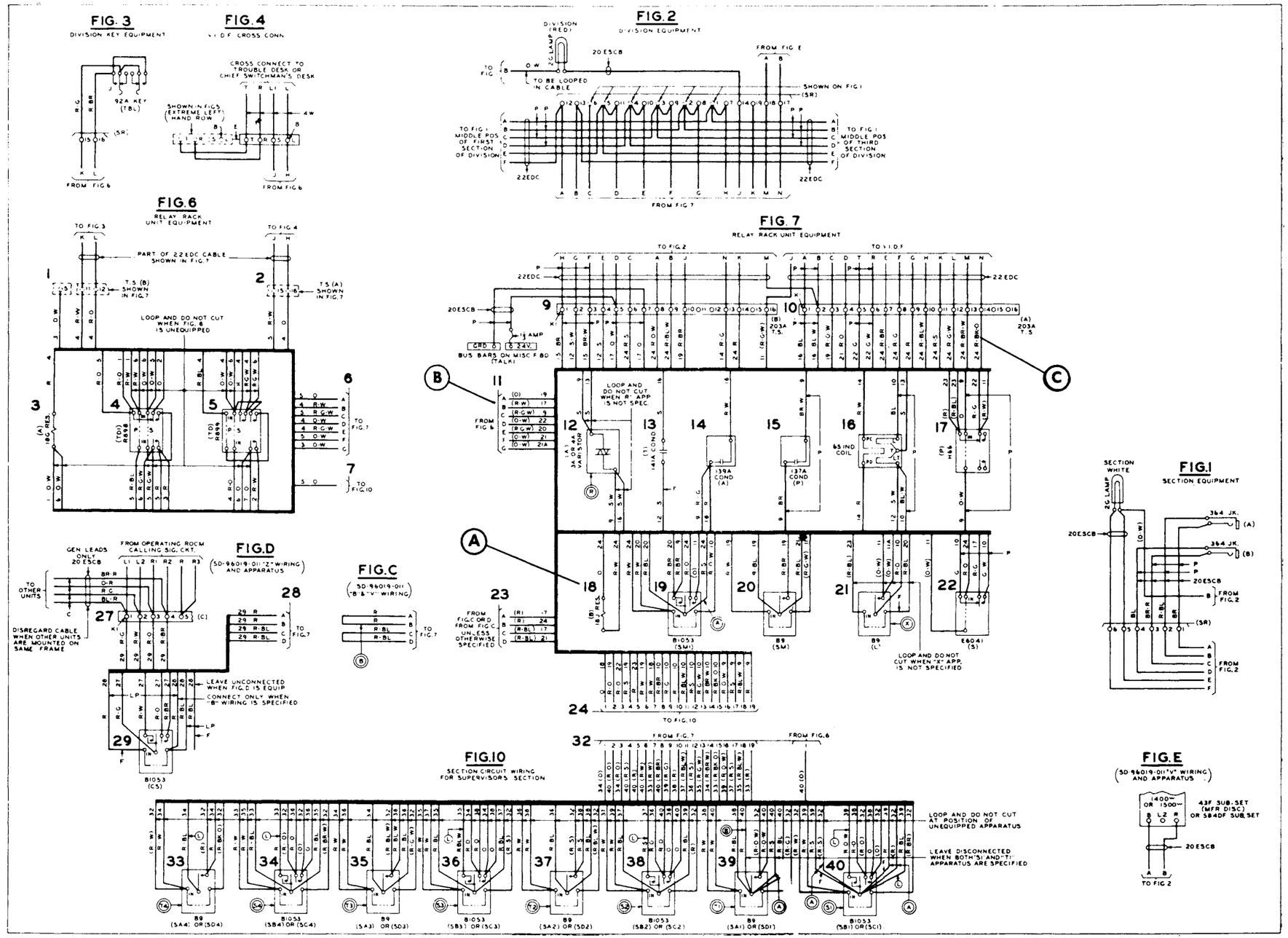
Ⓐ Component location number

Ⓑ Connections between figures utilizing bracket method

Ⓒ Feed line



Typical Airline Method Wiring Diagram

TYPICAL WIRING DIAGRAM # 3

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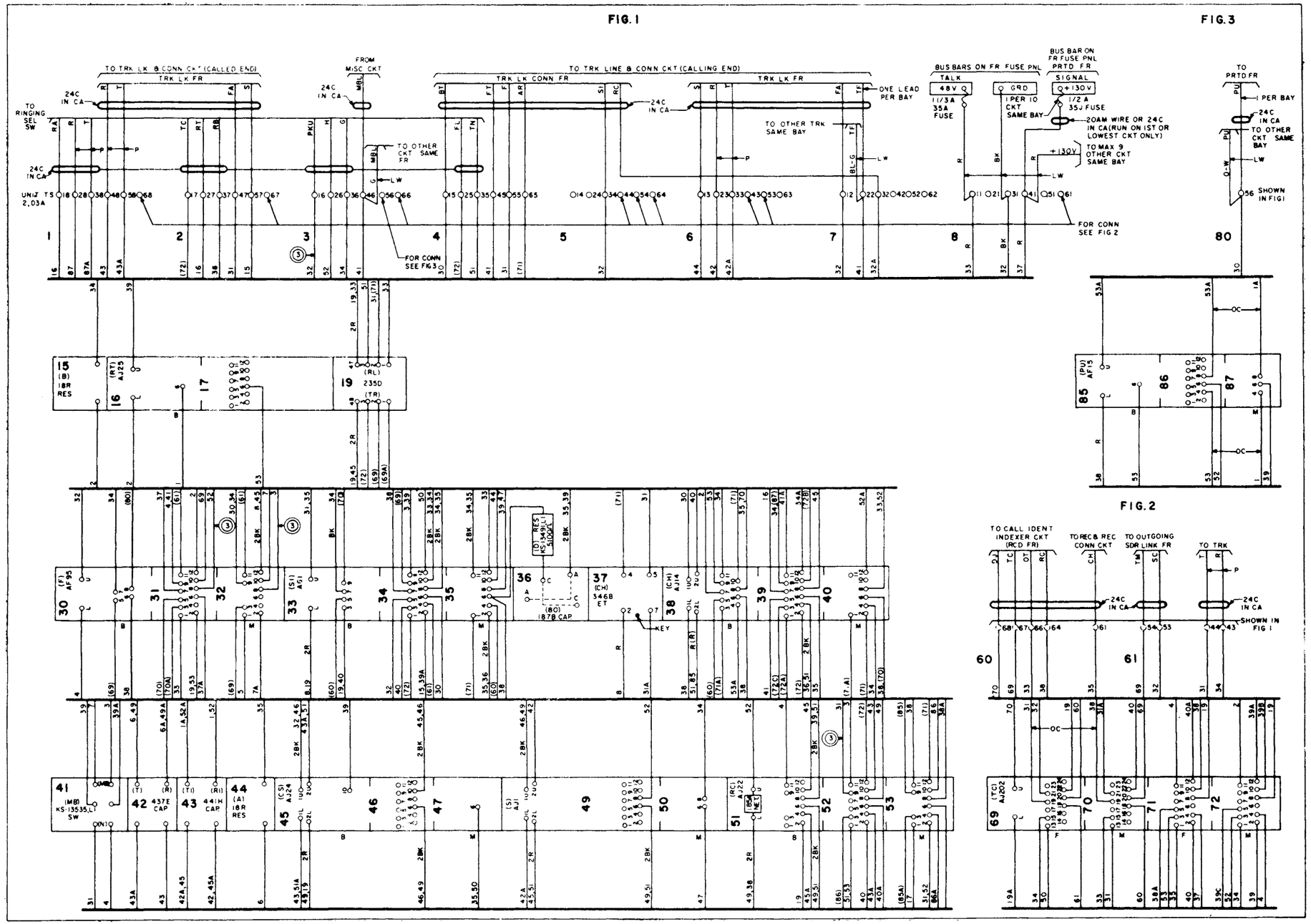

Typical Simplified Airline Method Wiring Diagram

TYPICAL WIRING DIAGRAM # 4

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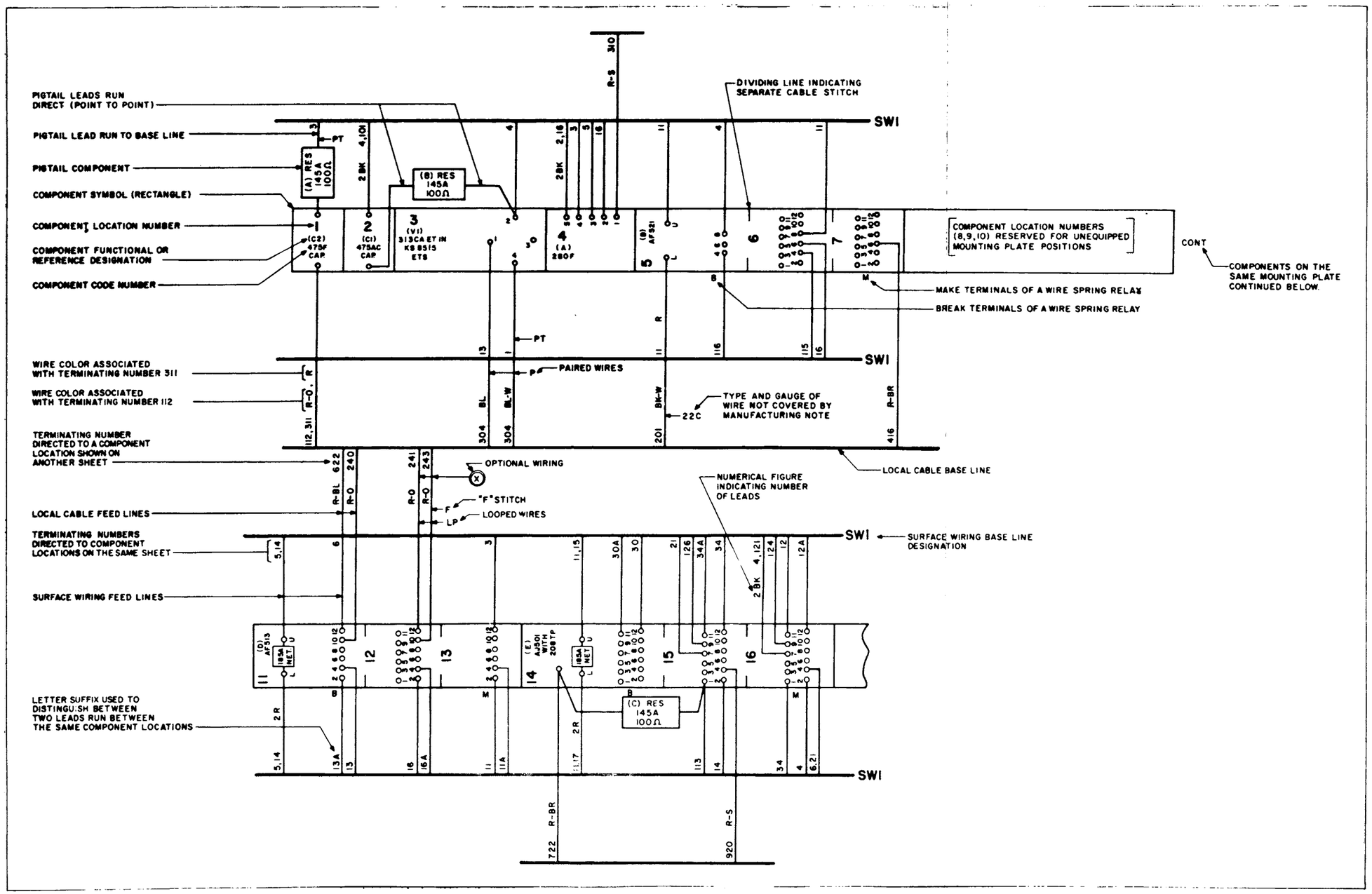

Guide to Terminology Used With the Simplified Airline Method

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LESSON NO. 7

"T" DRAWINGS

WIRING SYMBOLS, WIRING ABBREVIATIONS

DEFINITIONS OF WIRING AND CABLING

Objectives :

At the conclusion of this lesson you will be able to :

Identify the more commonly used wiring symbols on all type wiring diagrams.

Become familiar with the Bell System Practice which covers all symbols wiring abbreviations and wiring and cabling definitions.

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If the symbol "AT" is shown on a drawing this indicates that the wire is not to be connected until after the shop tests are completed.

Generally all symbols will be shown on the drawing close to the Feed Line or Lines and then an arrow will be drawn coming from the symbol pointing to the wire affected.

An example of this is shown in Figure 1.

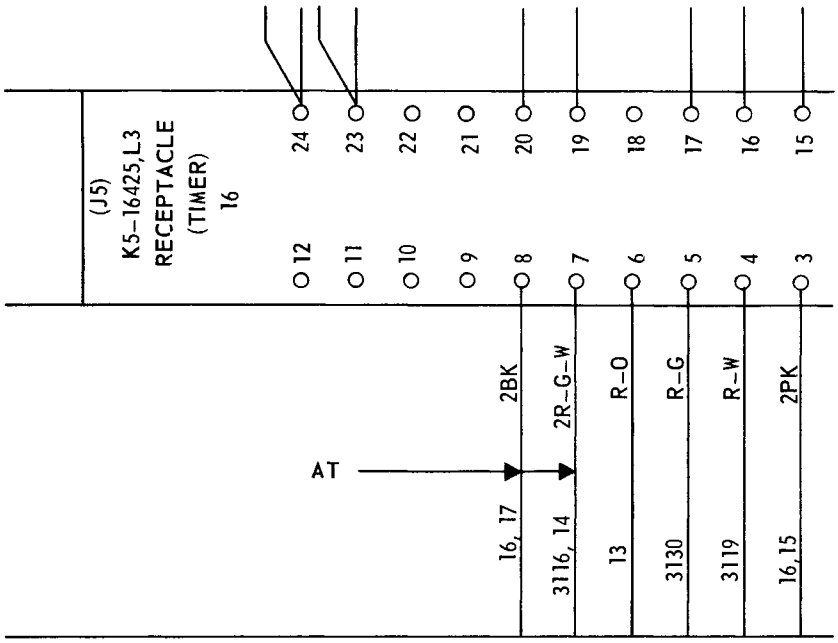

Fig. 1

Figure 1 is used to give an example of how many will be shown on a wiring diagram. This could apply to the "PT" symbol or "P" symbol or any of the other symbols.

Since the student package contains the Bell System Practice covering all symbols, they are not listed here.

The same will hold true for the wiring terms that are used on wiring diagrams.

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LESSON NO. 8
"T" DRAWINGS
TABULAR "T" METHOD

Objectives :

At the conclusion of this lesson you will be able to :

Identify and use a wiring diagram that employs the Tabular "T" Method of preparation.

Trace any number of wire leads found on this type wiring diagram.

Locate components using the Coordinate Locating Numbers.

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There are three sections in a Tabular "T" wiring Diagram. Sections A, B and C.

Section A consists of essentially the same information contained in the pictorial type wiring diagram "A" Sheets.

A pictorial type wiring diagram is the type drawing covered in the previous lessons. Point-to-Point, Highway, Airline and Simplified Airline.

Section B contains a complete list of all internally wired components in alphabetical and numerical order per Functional Designation.

The list serves as an index to the appearance of each component terminal that is used.

Section C contains detailed wire run information arranged numerically from Run Number 1 and up.

The definition of a run is as follows :

> " All points connected together with zero resistance without going through a set of contacts."

The easiest method for identifying a Tabular T drawing is to look at the drawing number. If an asterisk (*) replaces the dash (-) between the T and the base number this indicates a Tabular T drawing.

A typical "T" drawing number is shown below :

T*12345-11

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The Title Block on the Tabular "T" drawing is identical to the title blocks found on other wiring diagrams.

As was stated previously Section B contains a complete list, among other things, of all wired components. Figure 1, shows a typical portion of the B Section.

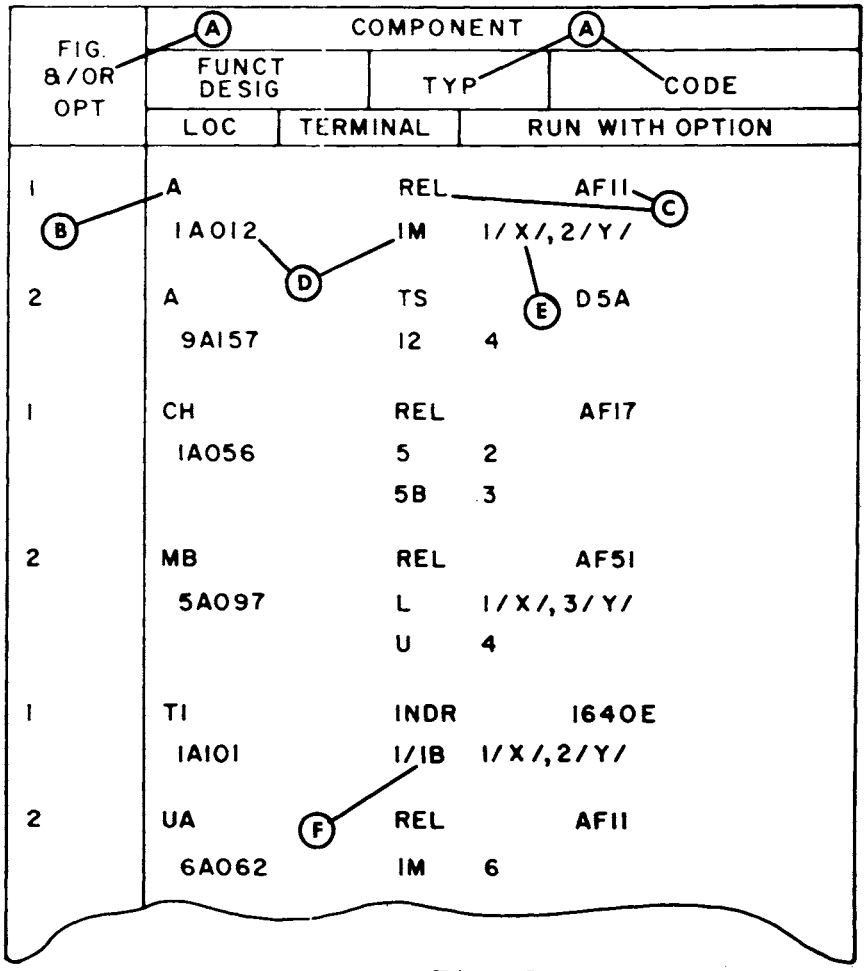

Fig. 1

A Indicates the figure, option, type and code.

B Indicates functional designation in alphabetical - numerical order.

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C Indicates type and code - Example : A is a AF11 Relay.

D Indicates the component coordinate number. Used to describe the components relative position to a local cable.

Also indicates the terminal number used on the component.

E Indicates the run number and option when required.

F Indicates the schematic number and identifying number. If only one number is shown this represent the schematic number.

Figure 2 shows the use of Coordinate Location Numbers as used on a double bay frame.

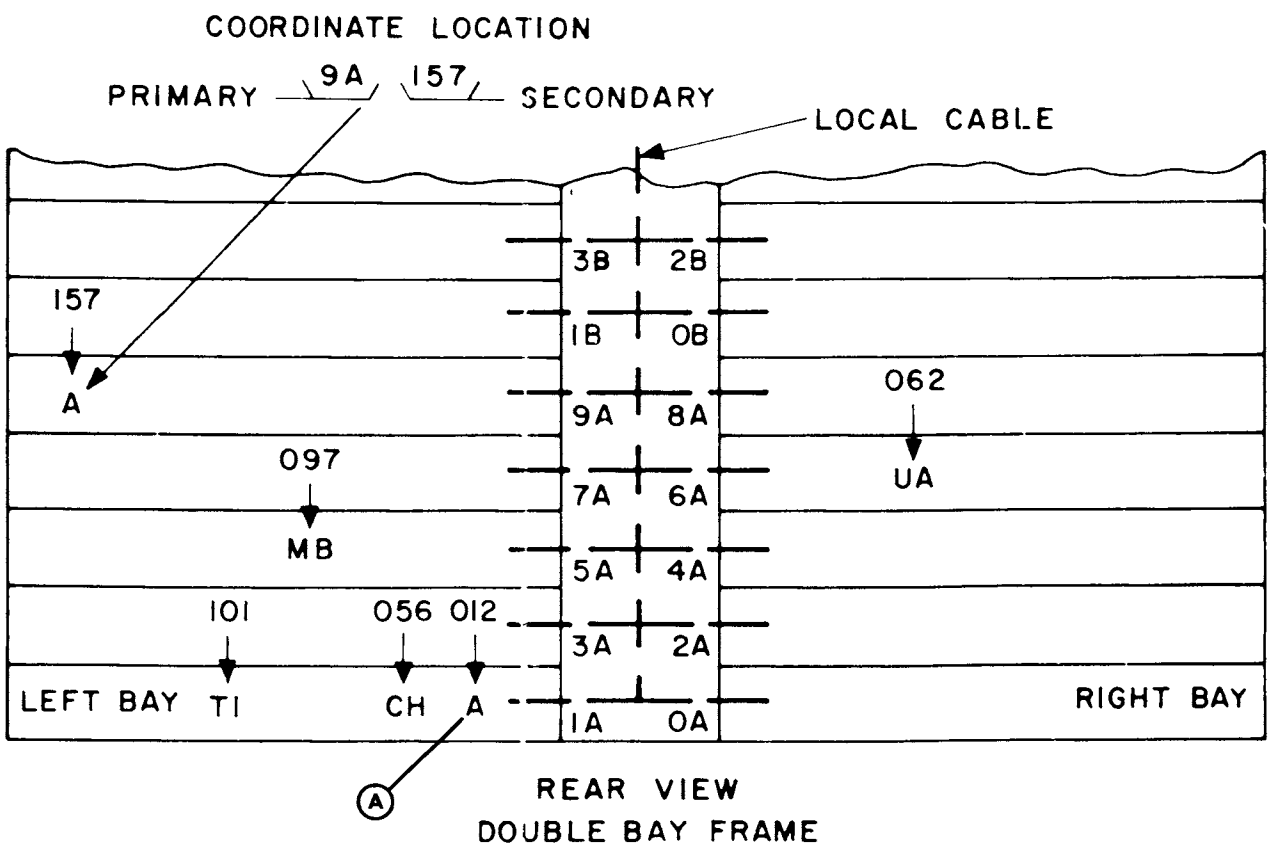

Fig. 2

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A Indicates the location of component A with the coordinate number 1AC12.

1A is the Primary Ordinate and (012) is the Secondary Ordinate.

Using the Primary and Secondary Ordinates any component on a frame can be located.

Using the first Coordinate Location number shown in Figure 1, which is 1AC12. It indicates that this component, the AF11 Relay, is located in relation to the local cable as follows :

The 1 which is an odd number indicates the left bay, where a two bay configuration is used. The A indicates the first series of odd numbers ie: 1A, 3A, 5A, 7A & 9A. Together these indicate the first horizontal leg of the cable, one inch up from the bottom. Each subsequent odd number indicates an additional two inches upward. The 012 indicates that the component is 12 1/8 inch increments over to the left or (12 x 1/8) 1 1/2 inches to the left of the butt end of the leg. (See A, Figure 2)

The above explanation of coordinate location numbers applies to a double bay with the cable being fed into the center. This is only applicable to the double bay configuration.

When a single bay is used then the component locating is simplified. Generally the cable will be on the left side with the horizontal legs feeding to the right. The primary ordinate in this case will always be even, however it would be easier for the student to just remember that the secondary ordinates indicates that the component is so many increments from the butt end of the cable leg, regardless which side, left or right, the cable is on.

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On the same line with the coordinate location in Figure 1, is the terminal number. This indicates one terminal of the component one wire of a run is connected to. (See D, Figure 1)

When two numbers are shown separated by a slash (/), the number on the left indicates the schematic number the number to the right is the identifying number. (See F, Figure 1) Generally a note will appear on the tabular wiring diagram explaining the identifying number.

This note will read as follows :

A slash line (/) in the terminal column separates the schematic number on the left from the identifying number shown to the right of the slash. Identifying numbers locate :

A. Terminals in horizontal rows. Number 1 and up, left to right - suffix T, M, or B indicates top, middle or bottom row.

B. Terminals in vertical rows. Number 1 and up, bottom to top - suffix L or R indicates left or right row.

It should be noted that in general, identifying numbers are assigned for each individual usage and the relationship between the schematic numbering and identifying numbers may vary according to mounting arrangement. An example of the use of identifying numbers is shown in Figure 3.

Identifying numbers are used to locate terminal numbers on keys, inductors, potentiometers, lamp sockets, transformers etc.

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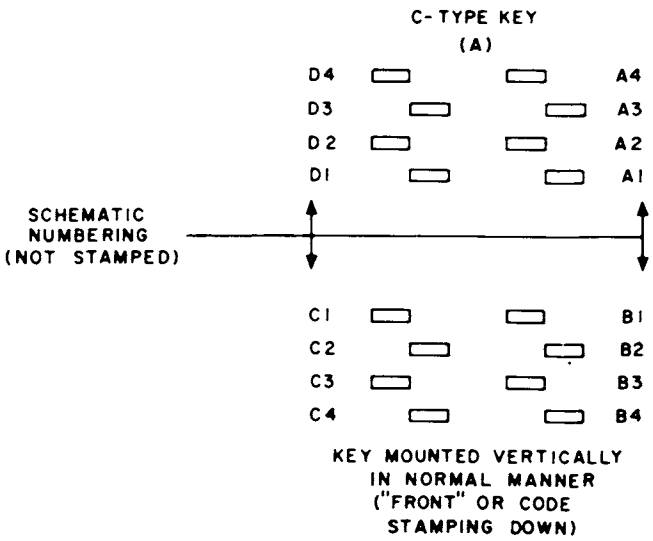
Figure 3 is an example of the use of identifying numbers on a C-Type Key.



COMPONENT		
TYPE	FUNCT DESIG	TERM NO.
KEY	A	C4/1L
		C3/2L
		C2/3L
		C1/4L
		D1/5L
		D2/6L
		D3/7L
		D4/8L
		B4/1R
		B3/2R
		B2/3R
		B1/4R
		A1/5R
		A2/6R
		A3/7R
		A4/8R

MANNER IN WHICH DOUBLE TERMINAL NUMBERS APPEAR IN SECTIONS B AND C OF TABULAR WIRING DIAGRAM (PARTIAL SECTION C SHOWN)

Fig. 3

When it is required to identify a terminal on a terminal strip a coordinate numbering system is used. Since the coordinate numbering systems vary, the best method for determining which system is used is to check the card catalog.

The figures shown on the next page are some of the typical Coordinate Numbering Systems used for various terminal strips.

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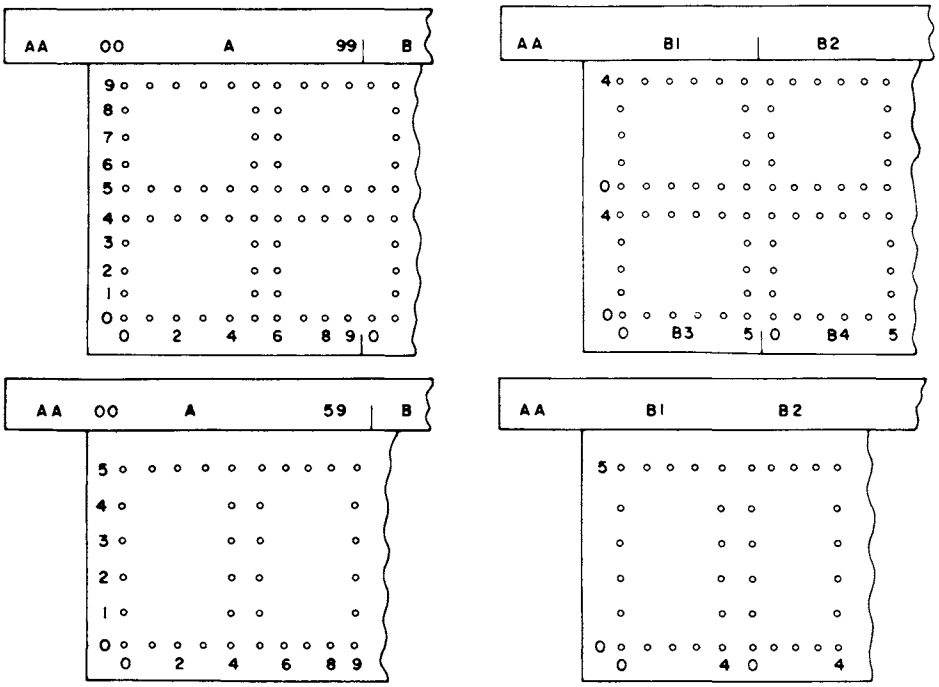
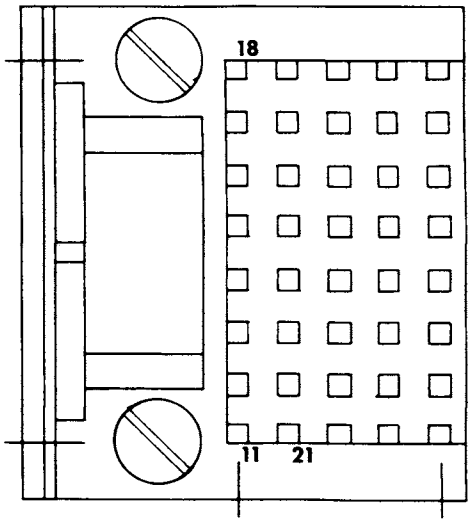
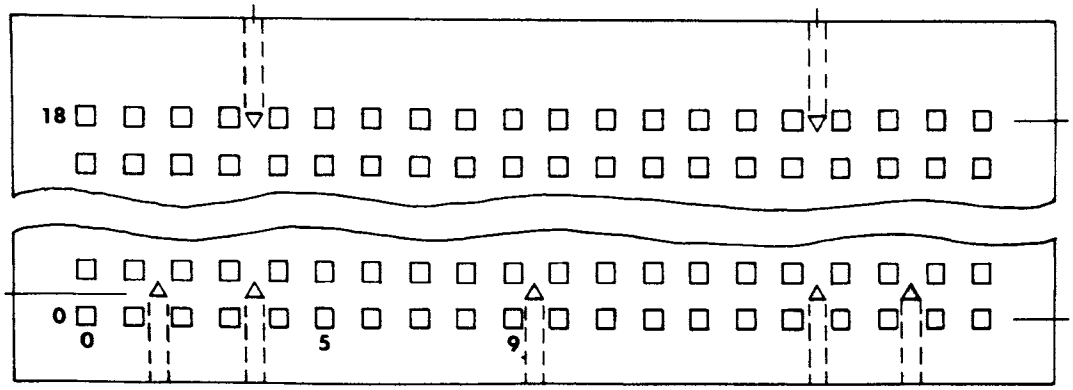


bn Fig. 4



D TYPE

Fig. 5



251 TYPE

Fig.66

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The last item found on the same line with coordinate location number and terminal number is the run number or numbers along with an associated option (See E, Figure 1)

The run number shown in this typical portion of B Section list, indicates what terminal of the component is associated with a particular run. If the run number is shown next to a slash (/) then it will also show the option associated with the run.

Looking at "E" Figure 1, it indicates that the 1M terminal of the A relay has a wire from Run 1 with "X" option, and a wire from Run 2 with "Y" option, connected to it.

Following the complete list of components found in Section B, is another list. This is a complete list of all pigtail component used in the wiring diagram. A typical pigtail component list is shown in Figure 7.

SYM PT	FIG OR OPT	FUNCT DESIG CODE PT COMPONENT TYPE VALUE COLOR CODE									MFR NOTE
		PRI COOR	FROM TYPE	FROM FUNCT DESIG	FROM TERM NBR	PRI COOR	TO TYPE	TO FUNCT DESIG	TO TERM NBR		
		OL		185A	NET						
AA	2,X	OA	REL	OF	2M	OA	REL	OF	2		
		R22		KS-19152,L2	RES	3900 OHMS		0-W-R-SLVR			
AB			POT	R21	2		TERM	TM	4		3
		R20		145A	RES	0.1 MEG					
AC			ETS	TM	1		TERM	TM	4		

Fig. 7

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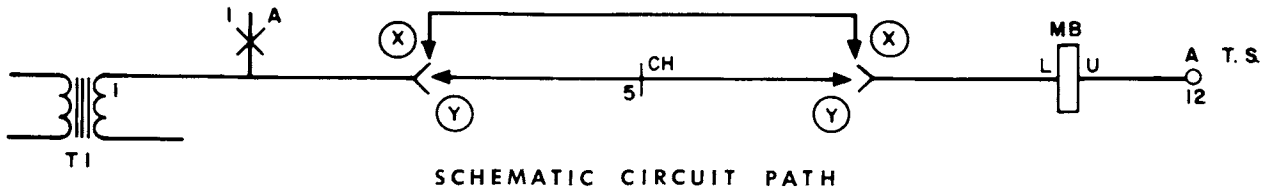
This list indicates the Functional Designation, Code, Type, Value and Color Code of the pigtail component. It also indicates the "From" and "To" connections. Using the first pigtail component shown in Figure 7 as an example : this component is connected from terminal 2M of the OF relay to terminal 2 of the OF relay. It is a 185A Network.

The second pigtail component shown in Figure 7 is connected to terminal 2 of the R21 Potentiometer and terminal 4 of the TM terminal strip. It is a KS-19152, L2 Resistor 3900 ohms.

The final section to be covered is Section C. This section provides a list of all the Runs associated with a wiring diagram. These runs are presented in numerical order.

Figure 8 illustrates a typical portion of Section C.



RUN NO. (A)	WITH OPTION	COMPONENT TYPE	COMPONENT FUNCT DESIG	COMPONENT TERM NO	WRG OPT	MFR NOTE	WIRE METH	WIRE COLOR	WIRE PATH	WRG CONV SYM
1	X	INDR	TI	1/1B			SWI			
		REL	A	IM	X	6	LC	BL		
		REL	MB	L						
2	Y	REL	A	IM			SWI			
		INDR	TI	1/1B	Y		SWI			
		REL	CH	5						
3	Y	REL	CH	5B	Y		LC	BL		
		REL	MB	L						
4		TS	A	12			SWI			
		REL	MB	U						

Fig. 8

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The first column on the left indicates the Run Number. (See A, Figure 8)

The second column "With Option", indicates that the option is required to furnish or provide a given run. If no option is shown, the run is furnished all the time.

Run Number 1 in Figure 8 is read as follows :

Terminal 1/1B of the T1 inductor is connected to terminal 1M of the A relay by a green surface-wire SW1 lead: terminal 1M of the A relay is connected to terminal L of the MB relay by a blue local cable wire. ("X" wiring option)

Run Number 2 consists of the following :

Terminal 1M of the A relay is connected to terminal 1/1B of the T1 inductor by a green surface-wire SW1 lead: terminal 1/1B of the T1 inductor is connected to terminal 5 of the CH relay by a green surface-wire SW1 lead. ("Y" wiring option)

Run Number 3 consists of the following :

Terminal 5B of the CH relay is connected to the lower relay winding terminal of the MB relay by a blue local cable wire ("Y" wiring option)

Run Number 4 consists of the following :

Terminal 12 of the A terminal strip is connected to the upper relay winding terminal of the MB relay by a green surface-wire SW1 lead.

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Schematic Circuit Path illustrated in Figure 8 represents the four runs just previously covered.

With the Schematic Circuit Path as an illustration it can readily be seen how any given lead can be traced using Section C and the correct run as a reference.

The Section C list contains additional information in other columns, there is the Wire Column, which will indicate the method, color and path of a lead used in a run. The path column will be filled in only when an actual path of a wire is required.

The last column shown on the list is a Wiring Convention Symbol Column. Symbols shown in this column are described in Section A under Manufacturing Notes. Anytime a wiring convention symbol is used the manufacturing notes will give an explanation or description of the symbol. Once again it becomes apparent that it is necessary for a user of any type wiring diagram to read all Manufacturing Notes.

Included in this package are a Typical Tabular T Wiring Diagram and a Typical Simplified Airline Wiring Diagram.

These typical wiring diagrams represent only two of the five types of wiring diagrams in existance. However the Simplified Wiring Diagram can be classified presently as the most widely used method and the Tabular T Wiring Diagram will soon become the most widely used method. This is the reason why these diagrams are included in this package.

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TABLE A — SHEET INDEX & ISSUE TABLE

SD & T DRAWING SHEETS ARE IN AGREEMENT AS FOLLOWS-

REPL BY	WIRING DIAGRAM RT'G	WIRING DIAGRAM SHEET NO	SD ISS	ISSUE 2	2	2 2MOD	2MOD	2MOD	2MOD	2MOD	2MOD
		A1	WIRING DIAGRAM SHEET ISSUE	1	2	3	4	5	6	7	
		30		1	2	3	3	5	4	4	
		31		1	2	3	4	5	6	7	
		32		1	2	2	4	5	6	6	

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 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.

TABLE B — RECORD OF FIGURES, APPARATUS AND WIRING CHANGES

CHANGED ON ISSUE	IF OFFICE RECORDS: SPECIFY	DO NOT SPECIFY	THIS OPTION WAS FURNISHED	ITEM NBR	RATING: STD	A & M	MD	SPL
3		B,C WRG	D WRG	4	B,C		D	
6		R,Q WRG	Q WRG	5	R		Q	
6		V APP	NONE	6	V			

MANUFACTURING NOTES

SHOP / INST

- DENOTES SHIELD CONNECTION
- DENOTES SPLICE
- DENOTES CABLE

1. ALL WIRING TO BE 24BW COLORED GREEN UNLESS OTHERWISE SPECIFIED.
2. "F1", "F1" BRING FROM CABLE AT SEPARATE STITCH.
3. (X X) LEADS SHOWN TERMINATED IN COMPONENTS WITHOUT TERMINALS ARE FURNISHED WITH COMPONENTS.
4. SHIELDED WIRE TO BE #120 TX17-VL TENSULITE INSULATED WIRE. JEFLON CO.
5. "D2" WIRING TO BE 24BW COLORED GREEN AND RUN AND DRESSED IN PATHS AS SHOWN ON J1D101B-1.
6. (X) THE SHIELD TERMINATIONS AT THE FILTERS & 210A TERM WILL BE LEFT UNCONNECTED.
7. (X) SLEEVE BOTH ENDS OF ALL SHIELDED WIRE CONNECTIONS WITH SLEEVING PER KS-7851.
8. (X) CONNECTING INFORMATION FOR SHIELDED WIRE SHOWN ON SRJ1D101-1.
9. (X) "SH" DENOTES SHARK CONNECTION.
10. P-PAIR
11. (X) ⌀ LEADS TO BE RUN BY THE INSTALLER
12. (X) WHEN OPTION "5" IS REQUIRED INST WILL REMOVE STRAP AT TERM 53-54 &, RELOC TO TERM 51-52.
13. (X) SLEEVE ALL 165A NETS WITH KS-7851 (18GA) SLEEVING OR EQUIV.

SHEET ISSUE: 1 2 3 4 5 6 7

TABLE D — FEATURE TABLE

ITEM	SD ISS & DATE APPLIED		SPECIFY T- 30007-11: FIG	QUAN	WRG	APP	AUTOMATIC	REMARKS
1	1 8-1-62	DATA SET 101C CIRCUIT FOR USE WITH TTY EQUIPMENT ARRANGED FOR FULL DUPLEX OPERATION.	1	1	G			SEE NOTES 55 & 56
2	1 8-1-62	PROVIDES FOR CONNECTION REQUIRED WHEN CONNECTING CIRCUIT IS ARRANGED TO TRIP RINGING BOTH DURING THE SILENT AND RINGING INTERVAL.	[1]	1	I			
3	1 8-1-62	PROVIDES HALF DUPLEX CONNECTION	[1]	1	X			
4	3	PROVIDES FOR USE WITH FUTURE AUXILIARY DATA SETS	[1]	1	C,D			
5	3	ALWAYS PROVIDED ON NEW DATA SETS ARRANGES FOR DATA PHONE SERVICE	[1]	1	R			SEE NOTE 57
6	3	PROVIDES APPARATUS FOR DATA PHONE SERVICE	[1]	1		V		
17 *	1 8-1-62	PROVIDES FOR CONNECTION REQUIRED WHEN CONNECTING CIRCUIT IS ARRANGED TO TRIP RINGING ONLY DURING THE SILENT INTERVAL.	[1]	1	S			

COMMON / OPTIONAL

TABLE C

SD-T DWG CROSS REFERENCE & SHEET LOCATION TABLE

W.E. CO. ASSIGNED WIRING DIAGRAM FIGURES AND OPTIONS ARE PREFIXED WITH LETTER H AND MAY OR MAY NOT HAVE A SCHEMATIC EQUIVALENT. ITEMS IN ( ) PARENTHESES ARE FOR INFORMATION ONLY AND ARE NOT TO BE RECORDED ON JOB WIRING LIST.

LINE	SD- 30007-01 SHEET	FIG	OPT	T- 30007-11 FIG	WRG	APP	SHEET	REMARKS
COL	A	B	C	D	E	F	G	H
1	B1,2,3	1		1			30	
	B1,2,3	1		1			31	
	B1,2,3	1		1			32	
5	B1,2,3	(1)	G	(1)	G			
	B1,2,3	(1)	H	(1)	H			
	B1	(1)	X	(1)	X		30	
	B1	(1)	S	(1)	S		30	
	B1	(1)	T	(1)	T		30	
10	C1	-		(1)			30	CONNECTING CORD
	B3	(1)	B	(1)	B		30,31	
	B3	(1)	C	(1)	C		31	
	B3	(1)	D	(1)	D		31	
	B1,B3, B4,G1	(1)	R	(1)	R		30,31, 32	
15	G1	(1)	Q	(1)	Q		30	

TABLE G — CABLING

ITEM NO	FIG	LEADS PER FIG	CABLES PER UNIT	SD DESIG	CODE	FROM	EQPT LOC	TO	EQPT LOC	REMARKS

ISSUE NOTES

8-1-62 RWB — 1

ON SH 30, LOC 14 LOST 49T LEAD 3150 READ 3137 LOC 13 TERM 29, BL LEAD TO 3012 RMV LOC 13 TERM GERMISON 610 & E7 ADDED ON SH 31 LOC 37 TERM 1 LEAD 1010 2BK, 32, 2012 LOC 02 LEAD 3012 G1 TERM 11 READ 37 ON SH 32 LOC 12 TERM 11 BL LEAD TO 3013 RMV LOC 17 TERM 8 BK LEAD FROM 3137 ADDED 11-5-63 CL D

RWB — 2

TO WIRING WAS NOT DESIG B & C WIRING ADDED. 2-5-65 CL B

RWB — 3

SH 31, LOC 14, TERM. 9LD TO LOC "25" & "3211B", LOC 25, TERM. 7B LD TO LOC 14 DESIG "H" OPT. SH 32, LOC 1, TERM. 7 READ "3114" & DESIG "H" OPT. TERM 13 "3114A" READ "3114". 6-23-65 CL AD

RWB — 4

ON SH A1, FEATURE TABLE, ITEM 1 "G" WRG ADDED SH 31 LEAD BETWEEN 7B (M) RELC BOT OF 210A TERM 6 LEAD BETWEEN TOP OF 210A TERM 4 LOC 14 & TERM 7 OF (J3) RECPT ON SH 32 WERE NOT DESIG "G" WRG NOTE 56 ADDED. 8-20-65 CL A

RWB — 5

ON SH A1 FEATURE TABLE, ITEM 5 & NOTES 57 & 74 ADDED ON SH 31 AT LOC 20 & 21, "R" WRG WAS NOT DESIG. ON SH 33 AT LOC 14 & 15 "R" WRG ADDED AT LOC 11 TERM 13 F3 RMVD TERM 7 F ADDED TERM 6 F RMVD TERM 3 F1 RMVD F2 ADDED TERM 2 F2 RMVD F3 ADDED. ON SH 30 AT LOC 12 "R" WRG WAS NOT DESIG. AT LOC 11 & 12 "V" APP ADDED AT LOC 11 "Q" WRG WAS NOT DESIG & "Q" WRG APP ADDED. 7-11-67 CL B

ISSUE NOTES (CONT)

SH SH 31 LOC 27 TERM "2M" LEAD "3213" READ "3213A". 3-14-69 CL AD

JDA — 7

(ENGINEERING NOTES CONT'D)

76 MOD OF SD-3D007-01 CONSISTS OF ADDING CHANGES PER SDC 2A,2B,2C & 2E TO BE APPLIED ON ISSUE 3.

ENGINEERING NOTES

51. FOR APPLICATION OF FIGURES & OPTIONS SEE FEATURE TABLE.
52. ORIGINAL CONNECTING DRAWINGS: PWR SUPPLY CKT T-81536-11
53. EQUIPMENT ARRANGEMENT: J1D101C-1, J1D101B-1 MOD *

* UNITS MODIFIED FROM SD-3D006-01 TO SD-3D007-01

54. ITEMS DESIGNATED WITH AN ASTERISK CONTAIN FIGURES OR OPTIONS REQUIRED BUT NOT COVERED ON J1D101C-1.
55. "H" WRG & APP OF FIG 1 IS NOT A FUNCTIONAL PART OF SD 3D007-01 BUT CONSISTS OF WIRING AND APPARATUS FURNISHED IN THE 1013 DATA SET J1D101B-1 PER SD-3D006-01 AND RETAINED WHEN THE 1013 SET IS CONVERTED TO A 101C SET PER SD-3D007-01.
56. "G" WRG OF FIG 1 IS PROVIDED IN THE 101B DATA SET PER SD-3D006-01.
57. WHEN R WRG IS ADDED AND H WRG IS IN PLACE, DISCONNECT THIS LEAD (PART OF H WRG).

APPARATUS ENGINEERING INFORMATION

T-3D007-11 4L02

DATA SYSTEMS
DATA SET 101C CIRCUIT

WESTERN ELECTRIC COMPANY, INC

6S

STANDARD

T-3D007-11

4 SHEETS

SHEET A1

T-3D007-11 A1

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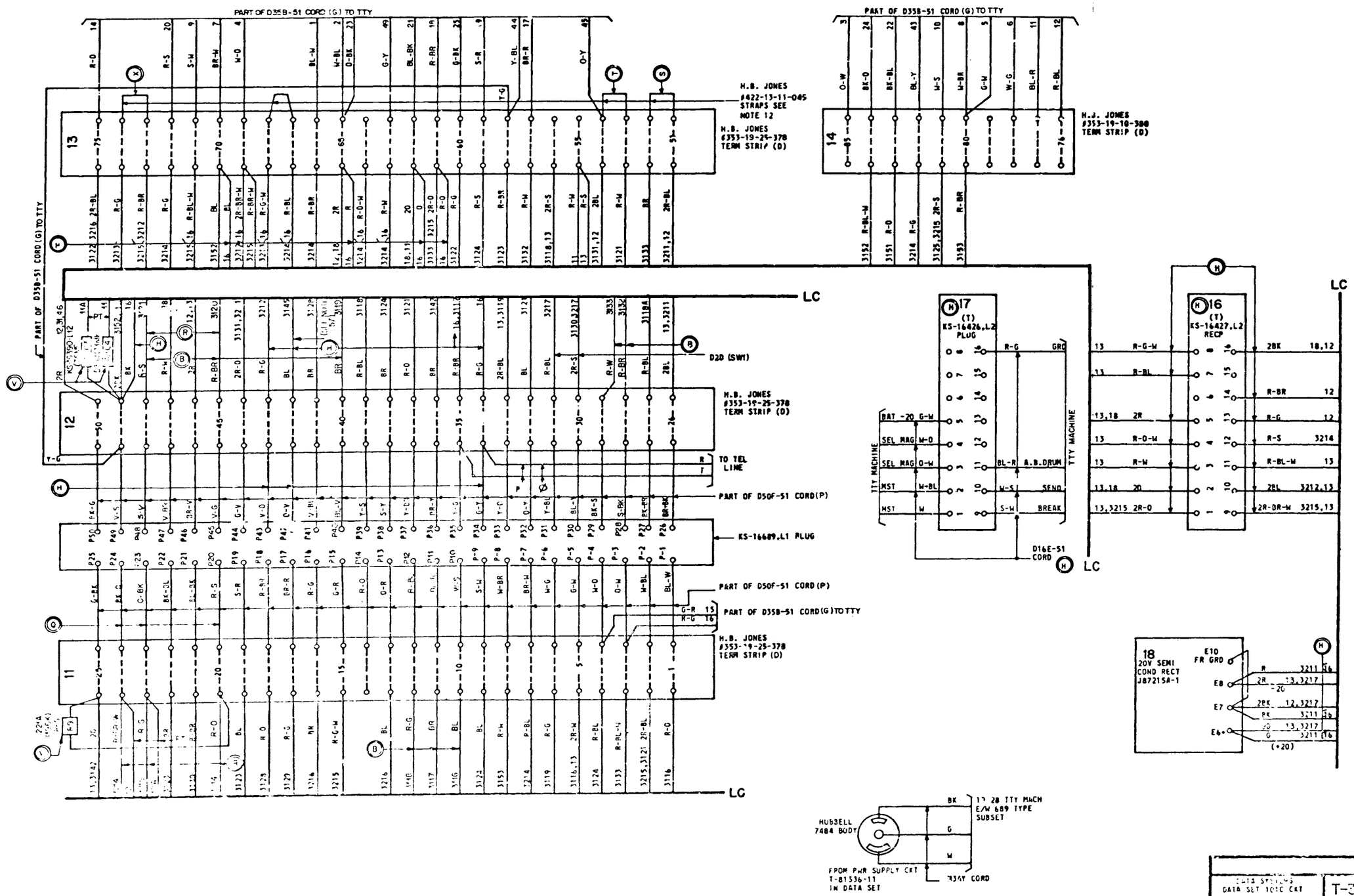
FIG. 1



SHEET ISSUE 1 2 3 4

T-3D007-11

30

DATA SYSTEMS DATA SET 101C CKT	T-3D007-11	SHEET 30
WESTERN ELECTRIC COMPANY, INC.	65	

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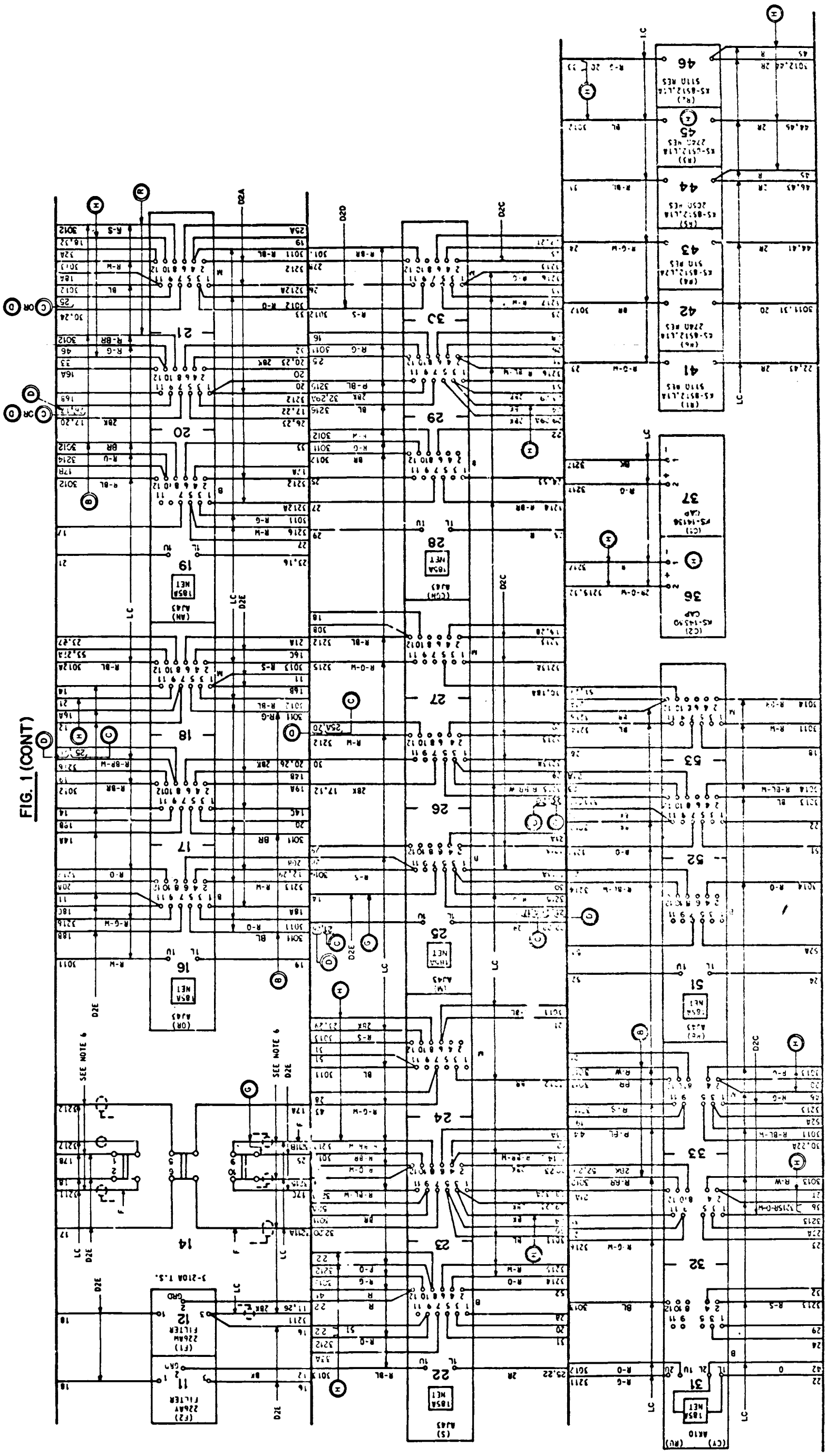

(CY) (RU) AK10 185A NET 31
32
33
(HC) AJ43 185A NET 51
52
53
(C2) KS-14330 CAP 36
(C1) KS-14136 CAP 37
(R1) KS-8512,L1A 511Ω RES 41
(R6) KS-8512,L1A 2740 RES 42
(R4) KS-8512,L2A 510 RES 43
(R5) KS-8512,L1A 2050 RES 44
(R3) KS-8512,L1A 2740 RES 45
(R2) KS-8512,L1A 511Ω RES 46
(S) AJ43 185A NET 22
23
24
(M) AJ43 185A NET 25
26
27
(CGH) AJ43 185A NET 28
29
30
(F2) 226AY FILTER 11
(F1) 226AW FILTER 12
3-210A T.S.
14
SEE NOTE 6
(OR) AJ43 185A NET 16
17
18
(AN) AJ43 185A NET 19
20
21
C OR D
LC
D2C
D2E
D2A

FIG. 1 (CONT)

DATA SYSTEMS
DATA SET 101C CAT

WESTERN ELECTRIC COMPANY, INC.

T-3D007-11

SHEET 31

ISSUE 6S

②

7	6	5	4	3	2	1	SHEET ISSUE

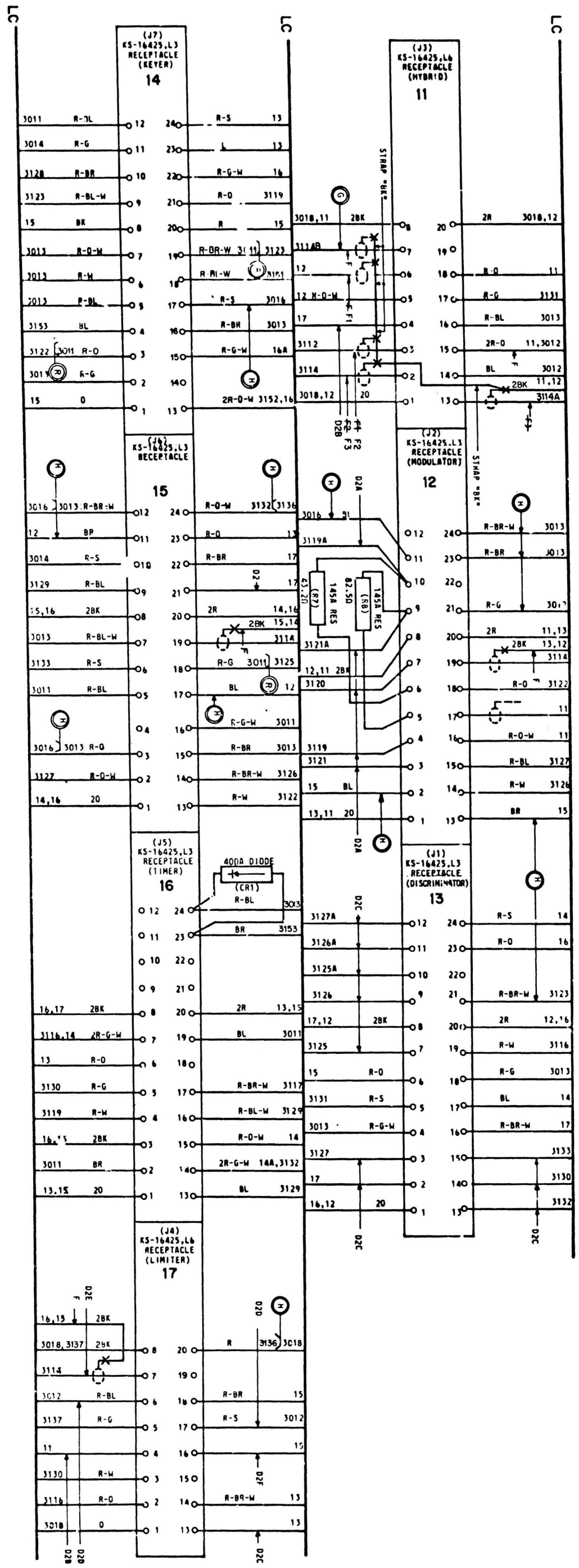

FIG. 1 (CONT)

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TABLE A

SECTION A SHEET INDEX

SD & T DWG SHEET ISSUES ARE IN AGREEMENT AS FOLLOWS

SD-65752-01 ISSUE	17	19											
T#65752-16		OMIT 18											
AUTO DWG SH NO	ISSUE												
A1	1	2											
A2	X	X											
A3													
A4													
A5													
A6													
A7													
A8													
A9													
A10													

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED
2. THE 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 NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX. THE ISSUE NUMBER OF A TRAILER SHEET WILL BE THE SAME AS THE SHEET IT SUPPLEMENTS
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
6. THE NUMBER ASSIGNED TO A TRAILER SHEET WILL AGREE WITH THE NUMBER OF THE SHEET IT SUPPLEMENTS SUFFIXED WITH THE LETTER A, B, C ETC

TABLE C

SD-T DWG CROSS REFERENCE TABLE

SCHEMATIC FIGURES AND OPTIONS AGREE WITH SIMILARLY DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS EXCEPT AS SHOWN BELOW. 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 DRAWING

LINE	SD-65752-01		T#65752-16			REMARKS
	FIG	OPT	FIG	WRG	APP	
COL	A	B	C	D	E	F
1						
5						
10						

MANUFACTURING NOTES

P - PAER

AA, AB ETC CROSS-REFERENCE SYMBOLS IDENTIFY CONNECTION OF PIGTAIL COMPONENTS LISTED IN THE "B" SECTION

@ A CONNECTION POINT OF A BIFURCATE TERMINAL

1 UNLESS OTHERWISE SPECIFIED ALL WRG TO BE 24B AND RUN AS LOCAL CABLE

8-1-65					
"YF" WRG WAS NOT DESIG & "YG" WRG ADDED. 3-16-67					CL D

TABLE A (CONTINUED)

SECTION B SHEET INDEX

SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS
B1	2	B21		B41		B61	
B2	2	B22		B42		B62	
B3	X	B23		B43		B63	
B4		B24		B44		B64	
B5		B25		B45		B65	
B6		B26		B46		B66	
B7		B27		B47		B67	
B8		B28		B48		B68	
B9		B29		B49		B69	
B10		B30		B50		B70	
B11		B31		B51		B71	
B12		B32		B52		B72	
B13		B33		B53		B73	
B14		B34		B54		B74	
B15		B35		B55		B75	
B16		B36		B56		B76	
B17		B37		B57		B77	
B18		B38		B58		B78	
B19		B39		B59		B79	
B20		B40		B60		B80	

SECTION C SHEET INDEX

SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS
C1	2	C21		C41		C61		C81		C101		C121		C141	
C2	2	C22		C42		C62		C82		C102		C122		C142	
C3	X	C23		C43		C63		C83		C103		C123		C143	
C4		C24		C44		C64		C84		C104		C124		C144	
C5		C25		C45		C65		C85		C105		C125		C145	
C6		C26		C46		C66		C86		C106		C126		C146	
C7		C27		C47		C67		C87		C107		C127		C147	
C8		C28		C48		C68		C88		C108		C128		C148	
C9		C29		C49		C69		C89		C109		C129		C149	
C10		C30		C50		C70		C90		C110		C130		C150	
C11		C31		C51		C71		C91		C111		C131		C151	
C12		C32		C52		C72		C92		C112		C132		C152	
C13		C33		C53		C73		C93		C113		C133		C153	
C14		C34		C54		C74		C94		C114		C134		C154	
C15		C35		C55		C75		C95		C115		C135		C155	
C16		C36		C56		C76		C96		C116		C136		C156	
C17		C37		C57		C77		C97		C117		C137		C157	
C18		C38		C58		C78		C98		C118		C138		C158	
C19		C39		C59		C79		C99		C119		C139		C159	
C20		C40		C60		C80		C100		C120		C140		C160	

SECTION D SHEET INDEX

SHEET	ISS
D1	
D2	
D3	
D4	
D5	
D6	
D7	
D8	
D9	
D10	
D11	
D12	
D13	
D14	
D15	
D16	
D17	
D18	
D19	
D20	

ENGINEERING NOTES

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

52 FOR APPLICATION OF FIGURES AND OPTIONS SEE FEATURE TABLE ON T-65752-11 SHEET 1.

2		YF OR YG WRG	YF WRG		YG		YF	
CHANGE ON ISSUE	SPECIFY	DO NOT SPECIFY	THIS OPTION	SEE	STD	A&M	MD	
	IF OFFICE RECORDS		WAS FURNISHED	NOTE	RATING			

RECORD OF FIGURES, COMPONENTS AND WIRING CHANGE

TABLE B

SECTION INDEX

SHEETS	CONTENTS
A	SHEET INDEX, ENGINEERING INFORMATION, EXTERNAL WIRING AND APPARATUS
B	INTERNAL APPARATUS FIGURES, LEAD RUN INDEX AND PIGTAIL COMPONENT CONNECTING INFORMATION
C	LEAD RUN DETAILS OF INTERNAL WIRING
C	WIRING AND CONNECTING INFORMATION FOR COMPONENTS THAT MAY BE EQUIPPED IN THE FIELD BY THE INSTALLER

T#65752-16 4-67

PBX SYSTEMS
NO. 756A
TWO WAY TRUNK CIRCUIT
TO CENTRAL OFFICE

(CO TRK)

WESTERN ELECTRIC COMPANY, INC

T#65752-16

5 SHEETS

SHEET A1

T#65752-16 SHEET A1

2

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FIG &/OR OPT	COMPONENT: FUNCT DESIG LOC	TERMINAL	TYPE	CODE	RUN WITH OPTION
2	A 0A50C		CONN	KS-16786,L4	
		1	60		
		2	58		
		3	56		
		4	54		
		5	52		
		6	40		
		7	38		
		8	36		
		9	34		
		10	32		
		11	30		
		12	28		
		13	26		
		14	24		
		15	22		
		16	20		
		17	18		
		18	16		
		19	14		
		20	12		
		21	10		
		22	8		
		23	6		
		24	4		
		25	2		
		26	59		
		27	57		
		28	55		
		29	53		
		30	51		
		31	39		
		32	37		
		33	35		
		34	33		
		35	31		
		36	29		
		37	27		
		38	25		
		39	23		
		40	21		
		41	19		
		42	17		
		43	15		
		44	13		
		45	11		
		46	9		
		47	[illegible]		
		48	5		
		49	3		
		50	1		
2	B 0A50D		CONN	KS-16786,L4	
		1	60		
		2	58		
		3	56		
		4	54		
		5	52		
		6	50		
		7	88		
		8	86		
		9	84		
		10	82		
		11	80		
		12	78		
		13	76		
		14	74		
		20	72		
		21	70		
		22	68		
		23	66		
		24	64		
		25	62		
		26	59		
		27	57		
		28	55		
		29	53		
		30	51		
		31	89		
		32	87		
B			CONTINUED		

FIG &/OR OPT	COMPONENT: FUNCT DESIG LOC	TERMINAL	TYPE	CODE	RUN WITH OPTION
	B		CONTINUED		
		33	85		
		34	83		
		35	81		
		41	79		
		42	77		
		43	75		
		44	73		
		45	71		
		46	69		
		47	67		
		48	65		
		49	63		
		50	61		
2	C 0A510		CONN	KS-16786,L4	
		1	110/ZQ/		
		2	108/ZQ/		
		3	106/ZQ/		
		4	104/ZQ/		
		5	102/ZQ/		
		6	100/ZQ/		
		7	98/ZQ/		
		8	96/ZQ/		
		9	94/ZQ/		
		10	92/ZQ/		
		16	130/ZQ/		
		17	128/ZQ/		
		18	126/ZQ/		
		19	124/ZQ/		
		20	122/ZQ/		
		21	120/ZQ/		
		22	118/ZQ/		
		23	116/ZQ/		
		24	114/ZQ/		
		25	112/ZQ/		
		26	109/ZQ/		
		27	107/ZQ/		
		28	105/ZQ/		
		29	103/ZQ/		
		30	101/ZQ/		
		31	99/ZQ/		
		32	97/ZQ/		
		33	95/ZQ/		
		34	93/ZQ/		
		35	91/ZQ/		
		41	129/ZE/		
		42	127/ZE/		
		43	125/ZE/		
		44	123/ZE/		
		45	121/ZE/		
		46	119/ZE/		
		47	117/ZE/		
		48	115/ZE/		
		49	113/ZE/		
		50	111/ZE/		
2	Z SL9 0A089		RESLP	15B	
E			L	111/ZE/	
			R	31	
	Z SL8 0A091		RESLP	15B	
E			L	113/ZE/	
			R	32	
2	Z SL7 0A095		RESLP	15B	
E			L	115/ZE/	
			R	33	
2	Z SL6 0A097		RESLP	15B	
E			L	117/ZE/	
			R	34	
2	Z SL5 0A101		RESLP	15B	
E			L	119/ZE/	
			R	35	

FIG &/OR OPT	COMPONENT: FUNCT DESIG LOC	TERMINAL	TYPE	CODE	RUN WITH OPTION
2	Z SL4 0A103		RESLP	15B	
E			L	121/ZE/	
			R	36	
2	Z SL3 0A107		RESLP	15B	
E			L	123/ZE/	
			R	37	
2	Z SL2 0A109		RESLP	15B	
E			L	125/ZE/	
			R	38	
2	Z SL1 0A113		RESLP	15B	
E			L	127/ZE/	
			R	39	
2	Z SL0 0A115		RESLP	15B	
E			L	129/ZE/	
			R	40	
2	SE9 0A118		REL	1/2AK4	
		8	2		
		8M	62		
		9	1		
		9M	61		
		1U	21		
		10	91/ZQ/		
		10B	92/ZQ/		
		10M	112/ZQ/		
		12	31		
		12M	31		
		2U	81		
2	SE8 0A118		REL	1/2AK4	
		1	32		
		1M	32		
		3B	94/ZQ/		
		3M	114/ZQ/		
		4	4		
		4M	64		
		5	3		
		5M	63		
		1L	22		
		2L	82		
		3	93/ZQ/		
2	SE7 0A130		REL	1/2AK4	
		8	6		
		8M	66		
		9	5		
		9M	65		
		1U	23		
		10	95/ZQ/		
		10B	96/ZQ/		
		10M	116/ZQ/		
		12	33		
		12M	33		
		2U	83		
2	SE6 0A130		REL	1/2AK4	
		1	34		
		1M	34		
		3	97/ZQ/		
		3B	98/ZQ/		
		3M	118/ZQ/		
		4	8		
		4M	68		
		5	7		
		5M	67		
		1L	24		
		2L	84		

FIG &/OR OPT	COMPONENT: FUNCT DESIG LOC	TERMINAL	TYPE	CODE	RUN WITH OPTION
2	SE5 0A142		REL	1/2AK4	
		R	10		
		8M	70		
		9	9		
		9M	69		
		1U	25		
		10	99/ZQ/		
		10B	100/ZQ/		
		10M	120/ZQ/		
		12	35		
		12M	35		
		2U	85		
2	SE4 0A142		REL	1/2AK4	
		1	35		
		1M	36		
		3	101/ZQ/		
		3B	102/ZQ/		
		3M	122/ZQ/		
		4	12		
		4M	72		
		5	11		
		5M	71		
		1L	26		
		2L	86		
2	SE3 0A154		REL	1/2AK4	
		8	14		
		8M	74		
		9	13		
		9M	73		
		1U	27		
		10	103/ZQ/		
		10B	104/ZQ/		
		10M	124/ZQ/		
		12	37		
		12M	37		
		2U	87		
2	SE2 0A154		REL	1/2AK4	
		1	38		
		1M	3		
		3	105/ZQ/		
		3B	106/ZQ/		
		3M	126/ZQ/		
		4	16		
		4M	76		
		5	15		
		5M	75		
		1L	28		
		2L	88		
2	SE1 0A166		REL	1/2AK4	
		8	18		
		8M	78		
		9	17		
		9M	77		
		1U	[illegible]		
		10	107/ZQ/		
		10B	[illegible]/ZQ/		
		10M	[illegible]/ZQ/		
		12	37		
		12M	39		
		2U	89		
2	SE0 0A166		REL	1/2AK4	
		1	40		
		1M	40		
		3	109/ZQ/		
		3B	110/ZQ/		
		3M	130/ZQ/		
		4	20		
		4M	80		
		5	19		
		5M	79		
		1L	90		
SE			CONTINUED		

FIG &/OR OPT	COMPONENT: FUNCT DESIG LOC	TERMINAL	TYPE	CODE	RUN WITH OPTION
	SE0		CONTINUED		
		2L	90		
2	Z SE9-U 0A113		TERM	208A	
F		B	31		
		T	31		
2	Z SE8-L 0A118		TERM	208A	
F		B	32		
		T	32		
2	Z SE7-U 0A130		TERM	208A	
F		B	33		
		T	33		
2	Z SE6-L 0A130		TERM	208A	
F		B	34		
		T	34		
2	Z SE5-U 0A142		TERM	208A	
F		B	35		
		T	35		
2	Z SE4-L 0A142		TERM	208A	
F		B	36		
		T	36		
2	Z SE3-U 0A154		TERM	208A	
F		B	37		
		T	37		
2	Z SE2-L 0A154		TERM	208A	
F		B	38		
		T	38		
2	Z SE1-U 0A166		TERM	208A	
F		B	39		
		T	39		
2	Z SE0-L 0A166		TERM	208A	
F		B	40		
		T	40		

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PT SYM	FIG OR OPT	PT COMPONENT FROM FUNCT DESIG	FROM CODE TYPE	FROM TERM NO	FROM PRI COLOR	VALUE	TO PRI COLOR	TO TYPE	TO FUNCT DESIG	TO TERM NO	COLOR CODE MFR NOTES
AA	ZF	SL9 OA TERM	SE9-U	145A		RES 3790 OHMS B OA REL			SE9		10M
AB	ZF	SL8 OA TERM	SE8-L	145A		RES 3790 OHMS T OA REL			SE8		3M
AC	ZF	SL7 OA TERM	SE7-U	145A		RES 3790 OHMS B OA REL			SE7		10M
AD	ZF	SL6 OA TERM	SE6-L	145A		RES 3790 OHMS T OA REL			SE6		3M
AE	ZF	SL5 OA TERM	SE5-U	145A		RES 3790 OHMS B OA REL			SE5		10M
AF	ZF	SL4 OA TERM	SE4-L	145A		RES 3790 OHMS T OA REL			SE4		3M
AG	ZF	SL3 OA TERM	SE3-U	145A		RES 3790 OHMS B OA REL			SE3		10M
AH	ZF	SL2 OA TERM	SE2-L	145A		RES 3790 OHMS T OA REL			SE2		3M
AJ	ZF	SL1 OA TERM	SE1-U	145A		RES 3790 OHMS B OA REL			SE1		10M
AK	ZF	SL0 OA TERM	SE0-L	145A		RES 3790 OHMS T OA REL			SE0		3M

PT SYM	FIG OR OPT	PT COMPONENT FROM FUNCT DESIG	FROM CODE TYPE	FROM TERM NO	FROM PRI COLOR	VALUE	TO PRI COLOR	TO TYPE	TO FUNCT DESIG	TO TERM NO	COLOR CODE MFR NOTES

PT SYM	FIG OR OPT	PT COMPONENT FROM FUNCT DESIG	FROM CODE TYPE	FROM TERM NO	FROM PRI COLOR	VALUE	TO PRI COLOR	TO TYPE	TO FUNCT DESIG	TO TERM NO	COLOR CODE MFR NOTES

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RUN NO	WITH OPTION	COMPONENT TYPE	COMPONENT FUNCT DESIG	COMPONENT TERM NO	WRG OPT	MFG NOTE	WIRE METH	WIRE COLOR	WIRE PATH	WRG CONV SYM
1		CONN	A	50			LC	BL1W		P1
		REL	SE9	9						P1
2		CONN	A	25			LC	BL2W		P1
		REL	SE9	8						P1
3		CONN	A	49			LC	O1W		P2
		REL	SE8	5						P2
4		CONN	A	24			LC	O2W		P2
		REL	SE8	4						P2
5		CONN	A	48			LC	G1W		P3
		REL	SE7	9						P3
6		CONN	A	23			LC	G2W		P3
		REL	SE7	8						P3
7		CONN	A	47			LC	BR1W		P4
		REL	SE6	5						P4
8		CONN	A	22			LC	BR2W		P4
		REL	SE6	4						P4
9		CONN	A	46			LC	S1W		P5
		REL	SE5	9						P5
10		CONN	A	21			LC	S2W		P5
		REL	SE5	8						P5
11		CONN	A	45			LC	BL1W		P6
		REL	SE4	5						P6
12		CONN	A	20			LC	BL2W		P6
		REL	SE4	4						P6
13		CONN	A	44			LC	O1W		P7
		REL	SE3	9						P7
14		CONN	A	19			LC	O2W		P7
		REL	SE3	8						P7
15		CONN	A	43			LC	G1W		P8
		REL	SE2	5						P8
16		CONN	A	18			LC	G2W		P8
		REL	SE2	4						P8
17		CONN	A	42			LC	BR1W		P9
		REL	SE1	9						P9
18		CONN	A	17			LC	BR2W		P9
		REL	SE1	8						P9
19		CONN	A	41			LC	S1W		P10
		REL	SE0	5						
20		CONN	A	16			LC	S2W		P10
		REL	SE0	4						
21		CONN	A	40			LC	BL		
		REL	SE9	1U						
22		CONN	A	15			LC	O		
		REL	SE8	1L						
23		CONN	A	39			LC	G		
		REL	SE7	1U						
24		CONN	A	14			LC	BR		
		REL	SE6	1L						
25		CONN	A	38			LC	S		
		REL	SE5	1U						
26		CONN	A	13			LC	W		
		REL	SE4	1L						
27		CONN	A	37			LC	BL3W		
		REL	SE3	1U						
28		CONN	A	12			LC	O3W		
		REL	SE2	1L						
29		CONN	A	36			LC	G3W		
		REL	SE1	1U						
30		CONN	A	11			LC	BR3W		
		REL	SE0	1L						
31		REL	SE9	12M ZE+ZF&YG			LC	G		
		CONN	A	35 #ZE&YF			LC	G		
		RESLP	SL9	R ZE&YG			LC	G		
		REL	SE9	12 ZF&YG			LC	G		
		TERM	SE9-U	T &						
		TERM	SE9-U	B @						AA
		TERM	SE9-U	T ZF&YF			LC	G		
		CONN	A	35						
32		REL	SE8	1M ZE+ZF&YG			LC	BR		
		CONN	A	10 #ZE&YF			LC	BR		
		RESLP	SL8	R ZE&YG			LC	BR		
		REL	SE8	1 ZF&YG			LC	BR		
		TERM	SE8-L	B &						
		TERM	SE8-L	T @						AB
		TERM	SE8-L	B ZF&YF			LC	BR		
		CONN	A	10						
33		REL	SE7	12M ZE+ZF&YG			LC	BL		
		CONN	A	34 #ZE&YF			LC	BL		
		RESLP	SL7	R ZE&YG			LC	S		
		REL	SE7	12 ZF&YG			LC	S		
		TERM	SE7-U	T &						
		TERM	SE7-U	B @						AC
		TERM	SE7-U	T ZF&YF			LC	BL		
		CONN	A	34						
34		REL	SE6	1M ZE+ZF&YG			LC	O		
		CONN	A	9 #ZE&YF			LC	O		
		RESLP	SL6	R ZE&YG			LC	W		
		REL	SE6	1 ZF&YG			LC	W		
		TERM	SE6-L	B &						
		TERM	SE6-L	T @						AD
		TERM	SE6-L	B ZF&YF			LC	O		
		CONN	A	9						
35		REL	SE5	12M ZE+ZF&YG			LC	BR3W		
		CONN	A	33 ZE&YF			LC	BR3W		
		RESLP	SL5	R ZE&YG			LC	BR3W		
		REL	SE5	12 ZF&YG			LC	BR3W		
		TERM	SE5-U	T &						
		TERM	SE5-U	B @						AE
		TERM	SE5-U	T ZF&YF			LC	BR3W		
		CONN	A	33						
36		REL	SE4	1M ZE+ZF&YG			LC	G3W		
		CONN	A	8 #ZE&YF			LC	G3W		
		RESLP	SL4	R ZE&YG			LC	G3W		
		REL	SE4	1 ZF&YG			LC	G3W		
		TERM	SE4-L	B &						
		TERM	SE4-L	T @						AF
		TERM	SE4-L	B ZF&YF			LC	G3W		
		CONN	A	8						
37		REL	SE3	12M ZE+ZF&YG			LC	S		
		CONN	A	32 #ZE&YF			LC	S		
		RESLP	SL3	R ZE&YG			LC	S		
		REL	SE3	12 ZF&YG			LC	S		
		TERM	SE3-U	T &						
		TERM	SE3-U	B @						AG
		TERM	SE3-U	T ZF&YF			LC	S		
		CONN	A	32						
38		REL	SE2	1M ZE+ZF&YG			LC	W		
		CONN	A	7 #ZE&YF			LC	W		
		RESLP	SL2	R ZE&YG			LC	W		
		REL	SE2	1 ZF&YG			LC	W		
		TERM	SE2-L	B &						
		TERM	SE2-L	T @						AH
		TERM	SE2-L	B			LC	W		
		CONN	A	7 ZF&YF						
39		REL	SE1	12M ZE+ZF&YG			LC	BL3W		
		CONN	A	31 #ZE&YF			LC	BL3W		
		RESLP	SL1	R ZE&YG			LC	BL3W		
		REL	SE1	12 ZF&YG			LC	BL3W		
		TERM	SE1-U	T &						
		TERM	SE1-U	B @						AJ
		TERM	SE1-U	T ZF&YF			LC	BL3W		
		CONN	A	31						
40		REL	SE0	1M ZE+ZF&YG			LC	O3W		
		CONN	A	6 #ZE&YF			LC	O3W		
		RESLP	SL0	R ZE&YG			LC	O3W		
		REL	SE0	1 ZF&YG			LC	O3W		
		TERM	SE0-L	B &						
		TERM	SE0-L	T @						AK
		TERM	SE0-L	B ZF&YF			LC	O3W		
		CONN	A	6						
51		CONN	A	30			LC	BL		
		CONN	B	30						
52		CONN	A	5			LC	O		
		CONN	B	5						
53		CONN	A	29			LC	G		
		CONN	B	29						
54		CONN	A	4			LC	BR		
		CONN	B	4						
55		CONN	A	28			LC	S		
		CONN	B	28						
56		CONN	A	3			LC	W		
		CONN	B	3						
57		CONN	A	27			LC	BL3W		
		CONN	B	27						
58		CONN	A	2			LC	O3W		
		CONN	B	2						
59		CONN	A	26			LC	G3W		
		CONN	B	26						
60		CONN	A	1			LC	BR3W		
		CONN	B	1						
61		CONN	B	50			LC	BL1W		P11
		REL	SE9	9M						P11
62		CONN	B	25			LC	BL2W		P11
		REL	SE9	8M						P11
63		CONN	B	49			LC	O1W		P12
		REL	SE8	5M						P12
64		CONN	B	24			LC	O2W		P12
		REL	SE8	4M						P12
65		CONN	B	48			LC	G1W		P13
		REL	SE7	9M						P13
66		CONN	B	23			LC	G2W		P13
		REL	SE7	8M						P13
67		CONN	B	47			LC	BR1W		P14
		REL	SE6	5M						P14
68		CONN	B	22			LC	BR2W		P14
		REL	SE6	4M						P14
69		CONN	B	46			LC	S1W		P15
		REL	SE5	9M						P15
70		CONN	B	21			LC	S2W		P15
		REL	SE5	8M						P15
71		CONN	B	45			LC	BL1W		P16
		REL	SE4	5M						P16

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RUN NO	WITH OPTION	COMPONENT TYPE	COMPONENT FUNCT DESIG	COMPONENT TERM NO	WRG OPT	WRG NOTE	WIRE METH	WIRE COLOR	WIRE PATH	WRG CONV SYM
72		CONN REL	B SE4	20 4M			LC	BL2W		P16 P16
73		CONN REL	B SE3	44 9M			LC	O1W		P17 P17
74		CONN REL	B SE3	19 3M			LC	O2W		P17 P17
75		CONN REL	B SE2	43 5M			LC	G1W		P18 P18
76		CONN REL	B SE2	18 4M			LC	G2W		P18 P18
77		CONN REL	B SE1	42 9M			LC	BR1W		P19 P19
78		CONN REL	B SE1	17 8M			LC	BR2W		P19 P19
79		CONN REL	B SE0	41 5M			LC	S1W		P20 P20
80		CONN REL	B SE0	16 4M			LC	S2W		P20 P20
81		CONN REL	B SE9	35 2U			LC	BR3W		
82		CONN REL	B SE8	10 2L			LC	G3W		
83		CONN REL	B SE7	34 2U			LC	O3W		
84		CONN REL	B SE6	9 2L			LC	BL3W		
85		CONN REL	B SE5	33 2U			LC	BR		
86		CONN REL	B SE4	8 2L			LC	G		
87		CONN REL	B SE3	32 2U			LC	BL		
88		CONN REL	B SE2	7 2L			LC	O		
89		CONN REL	B SE1	31 2U			LC	S		
90		CONN REL	B SE0	6 2L			LC	W		
91	ZQ	CONN REL	C SE9	35 10	ZQ		LC	S		
92	ZQ	CONN REL	C SE9	10 10B	ZQ		LC	W		
93	ZQ	CONN REL	C SE8	34 3	ZQ		LC	BL3W		
94	ZQ	CONN REL	C SE8	9 3B	ZQ		LC	O3W		
95	ZQ	CONN REL	C SE7	33 10	ZQ		LC	BL		
96	ZQ	CONN REL	C SE7	8 10B	ZQ		LC	BR3W		
97	ZQ	CONN REL	C SE6	32 3	ZQ		LC	O		
98	ZQ	CONN REL	C SE6	7 3B	ZQ		LC	G3W		
99	ZQ	CONN REL	C SE5	31 10	ZQ		LC	G		
100	ZQ	CONN REL	C SE5	6 10B	ZQ		LC	S3W		
101	ZQ	CONN REL	C SE4	30 3	ZQ		LC	BL3W		
102	ZQ	CONN REL	C SE4	5 3B	ZQ		LC	BL		
103	ZQ	CONN REL	C SE3	29 10	ZQ		LC	O		
104	ZQ	CONN REL	C SE3	4 10B	ZQ		LC	G		
105	ZQ	CONN REL	C SE2	28 3	ZQ		LC	O3W		
106	ZQ	CONN REL	C SE2	3 3B	ZQ		LC	G3W		
107	ZQ	CONN REL	C SE1	27 10	ZQ		LC	S		
108	ZQ	CONN REL	C SE1	2 10B	ZQ		LC	S3W		
109	ZQ	CONN REL	C SE0	26 3	ZQ		LC	W		
110	ZQ	CONN REL	C SE0	1 3B	ZQ		LC	BR		
111	ZE	CONN RESLP	C SL9	50 L	ZE		LC	R		
112	ZQ	CONN REL	C SE9	25 10M	ZQ		LC	BK		AA
113	ZE	CONN RESLP	C SL8	49 L	ZE		LC	BL2R		
114	ZQ	CONN REL	C SE8	24 3M	ZQ		LC	BL2BK		AB
115	ZE	CONN RESLP	C SL7	46 L	ZE		LC	O2R		
116	ZQ	CONN REL	C SE7	23 10M	ZQ		LC	O2BK		AC
117	ZE	CONN RESLP	C SL6	47 L	ZE		LC	G2R		
118	ZQ	CONN REL	C SE6	22 3M	ZQ		LC	G2BK		AD
119	ZE	CONN RESLP	C SL5	43 L	ZE		LC	BR2R		
120	ZQ	CONN REL	C SE5	21 10M	ZQ		LC	BR2BK		AE
121	ZE	CONN RESLP	C SL4	45 L	ZE		LC	R		
122	ZQ	CONN REL	C SE4	20 3M	ZQ		LC	BK		AF
123	ZE	CONN RESLP	C SL3	44 L	ZE		LC	BL2R		
124	ZQ	CONN REL	C SE3	19 10M	ZQ		LC	BL2BK		AG
125	ZE	CONN RESLP	C SL2	43 L	ZE		LC	O2R		
126	ZQ	CONN REL	C SE2	18 3M	ZQ		LC	O2BK		AH
127	ZE	CONN RESLP	C SL1	42 L	ZE		LC	G2R		
128	ZQ	CONN REL	C SE1	17 10M	ZQ		LC	G2BK		AJ
129	ZE	CONN RESLP	C SL0	41 L	ZE		LC	BR2R		
130	ZQ	CONN REL	C SE0	16 3M	ZQ		LC	BR2BK		AK

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