

CUSTOMIZED WIRING INSTRUCTIONS (CWI)
DATA FILE INPUT REQUIREMENTS

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2.1 Purpose	
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1. GENERAL	3.22 DCS/CRI - Detail Change Sheet or (A-9) Circuit Revision Instruction number will be placed in this column for each wire. Field characters 1-9 digits.
1.1 Scope of Section	(a) Maximum length - 9 digits. e.g., 25872-56A
1.11 This section explains the information contained in the Customized Wiring Instruction Data File Input Requirements Form.	NOTE: The dash (-) is counted as a digit.
2. PURPOSE OF DATA FILE INPUT REQUIREMENT FOR CWI'S	(A-9) - "A" stands for alpha and numeric, and number (9) specifies the maximum length for that particular column. This will be true for each column.
2.1 Purpose	
2.11 Information contained in the Data File Input is provided for Computer Input Data Base. This will provide information for Customized Computer Outputs to relieve the need to analyze DCS or CRI's.	
3. INSTRUCTIONS FOR COLUMN DETAILS OF DATA FILE INPUT REQUIREMENT FOR CWI'S	3.23 Feature - Field Characters 10-22 (A-13)
3.1 Header	a. Maximum length - 13 digits.
3.11 Location: City and State	b. Place feature(s) associated with each wire.
3.12 Equipment: Frame Name and Unit	c. Combination feature nomenclature
3.13 Name and Telephone Number	(&) = and
3.14 Date	(-) = without
3.15 Page Number	(/) = or, either
3.2 Column Headings (Development Instructions for Computer Input Form SD-48-1000)	e.g., A & A2 & A3 - B1
3.21 Line - Consecutive Numbering of each line from Line 1 up, for each input.	i.e., A and A2 and A3 without B1 for input purposes.

- 3.24 A/R - Indicate add or remove,
(A-2) Field Characters 23-24
- Maximum length - 2 digits
 - Identifies whether the wire is to be removed or added
 - Permissible entries
 - A = added wire
 - R = removed wire
 - R* = disconnected wire - from end only
 - RS = Remove and spare (disconnected wire to be spared)
 - A* = reconnected wire - from end only
 - C = preliminary connect - establish on wiring that can be considered as preop to basic modification, i.e., new relays
 - D = preliminary remove, i.e., - removed wiring associated with replaced relays determined to be a preop condition
 - D* = preliminary disconnect - from side only
 - C* = preliminary reconnect - from side only
 - N: = a colon (:) after the letter A, R, C, or D indicates the line information will not be reversed; that is (for local cable only), the "TO" side information will not be generated elsewhere in the printout on the "FROM" side. This would be used where the analyst wants to indicate that both ends of the local cable can be connected or disconnected as a preop function. The "TO" side information would be shown on the "FROM" side on another line entry by the analyst in this case with a (C:) or (D:). When

a C or D is used without a (:) or (*), the program will reverse the "TO" to the "FROM" side and generate a line as a regular "ADD" or "REMOVE" for the other end of the local cable.

3.25 Lead Color - Field characters 25-32 (A-8)

- Maximum length - 8 digits
- Identifies lead color
- Typical entries - colors

R = Red	V = Violet
BL = Blue	G = Green
BK = Black	S = Slate
Y = Yellow	W = White
Ø = Orange	N = Novelty
BR = Brown	

Multi-colored leads are shown as: BL3W, etc.

- Permissible entries - apparatus

PT = Pigtail Apparatus

A corresponding note will be placed in the note column in reference to specific apparatus information, i.e., KS-14964 L-2 200 ohm resistor.

- Permissible entry - outside cable SWBD CA = Switchboard Cable This will normally be associated with a removal operation or connection of existing SWBD CA. Added switchboard cable would be picked up in the cabling spec (CCD sheets).

The local cable column would have a "Z" entry for this SWBD CA. Although this "Z" entry normally indicates pigtail, it is used here in order to eliminate the normal second time printout program associated with local cable and to sort in proper sequence.

3.26 From/To
 3.261 UN - Unit identifier, Field
 (A-3) characters 33-35 (From
 side) and 66-68 (To side)

- a. Maximum length - 3 digits
- b. Identify the "J" unit for respective side.
- c. e.g., on J-25882 BC-1 the only entry would be "BC."

3.262 PLT No. - i.e., Plate number, Field
 (I-4) characters 36-39 (From
 side) and 68-71 (To side)

- a. Maximum length - 4 digits
- b. Restrictions - Integer values only

NOTE: Positive number will be used between 0 and 9999. Negative (-) numbers will be used to indicate out of bay and miscellaneous locations, i.e., -1 to -999.

Plate numbers will be sorted in the computer (higher numbers to lower numbers); therefore, the plate numbers will be assigned as follows to sequence the work operations from top down.

The plate number used in the computerized DCS for a single frame circuit is arrived at by numbering the mounting plates on the frame from the bottom up, correlating with actual plate numbering as shown on "J" drawing stocklist. (See Figure 1.)

The plate number, used in the computerized DCS for circuits which have more than one frame, is arrived at by numbering the frames from left to right, "0," "100," "200," etc., and numbering the mounting plates of each frame from the bottom up. The first frame mounting plate will be "0" and up; the second frame mounting plate will be "100" and up; the third frame mounting plate will be "200" and up; etc. (See Figure 2.)

The plate number, used in the computerized DCS for out of bay and miscellaneous locations which are on

a single "J" unit, is arrived at by numbering the mounting plates on the "J" unit from the top down starting with the number "-1." (See Figure 3.)

The plate number used in the computerized DCS for circuits which are mounted in the frame in multiples (such as senders, registers, recorders, etc.) is determined by numbering the mounting plates on the "J" unit from the bottom up starting with the number "1." (See Figure 3A.)

NOTE: "I" stands for Integer. This will be true for each column having (I-).

3.263 Type CPNT - Type of component, Field
 (A-6) characters 40-45 (From
 side) and 72-77 (To
 side)

- a. Maximum length - 6 digits
 - b. Enter general component nomenclature
- i.e., Relay = Rel; Resistor = RES; Electronic Tube Socket = ETS; Socket = SKT; etc.

3.264 DESIG. - Specifies component designation Field characters
 (A-8) 46-53 (From side) and 78-85
 (To side)

- a. Maximum length - 8 digits
- b. Specific component designation to be listed (Alpha or numeric or both)

TERM - Terminal number of
 (A-5) component entered, Field
 characters 54-58 (From
 side) and 86-90 (To side)

- a. Maximum length - 5 digits
- b. The letter "F" preceding the terminal number designates the wire to be connected on the front of the respective terminal strip.
- c. The letter "F" with a dash (-) preceding it when placed behind the terminal number designates "F" stitch wiring.

3.267 "Y" LOC - Indicates Y locations.
 (I-3) Field characters 62-64
 (From side) and 94-96
 (To side)

- a. Maximum length - 3 digits
- b. Restrictions - integer value only between 1 and 999, "Y" coordinate information will be sorted from high numbers to lower for adds, and in reverse for removes; therefore, to sequence the work operations for the most efficient manner, the "Y" location will be assigned as follows:

The "Y" location on most apparatus with horizontal rows of terminals will be arrived at by counting the terminals of the top row starting from the right-hand side with number 1 and then going to the next horizontal row and continuing the count (see Figure 5). (Wiring side shown in typical example.)

The "Y" location on most apparatus with vertical rows of terminals will be arrived at by counting the right-hand row, starting from the top down with Number 1 and then going to the next vertical row and continuing the count (see Figure 5).

3.27 LOC CA - Indicates local cable,
 (A-1) Field character 97

- a. Maximum length - 1 digit
- b. Identifies the type of connector between the terminal points
- c. Permissible entries

- Y = Local cable (LC) ←
- N = Surface wire (SW) ←
- Z = Pigtail apparatus (PT) ←
- W = Loose wire (LW) ←

If "Z" is indicated, a reference to the note number which lists the pigtail apparatus is made in column NOTE.

- d. Lead association ←

In order to maintain uniform lead association by all users of CWI instructions - it should be noted that the first lead connected to a wire wrapped terminal would be the "SW" lead. Next lead would be the "LW" lead. Next would be the "LC" lead. The last lead would be the "PT" lead. ←

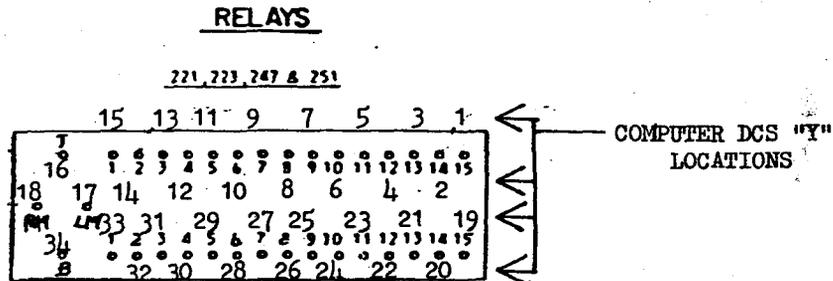


FIG. 5
 (PAR. 3.267)

WIRE SPRING RELAYS
(TYPICAL)

COMPUTERIZED DCS "Y" LOCATIONS

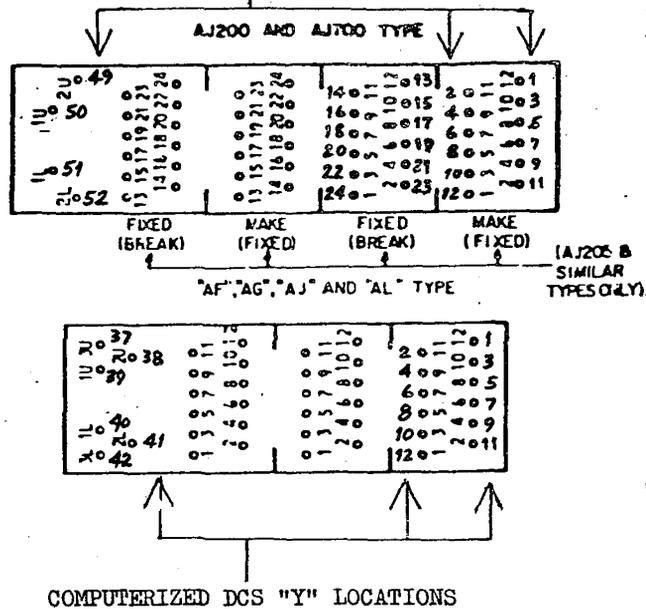


FIG. 6
(PAR. 3.267)

3.28 NOTE - Field characters 98-102

- a. Maximum length - 5 digits
- b. References the number of the note in the "note-file" which applies to that line.

A note file containing job information notes and description of pig-tail apparatus will be originated for each data file. When updating a

file or adding another DCS to an existing file, the analyst will reference the present note file and add any applicable notes.

Note 0 will be used to list DCS/CRIs in the data file with the issue number. This note must be updated when the file is updated with new issue or additional DCS/CRIs.

→Indicates new or changed information.

Engineering Planning Manager
(Installation)

ATTACHMENT
Form SD-48-1000, Page 9

Reason for Reissue:
"RS" and clarification of plate NBRG added.



LOCATION: _____
EQUIPMENT: _____
DCS ISS: _____

Customized Wiring Instruction (CWI) Input Form

NAME: _____
PHONE NO: _____
DATE: _____

SD-48-1000 (6-78)

PAGE NO. _____

LINE	FROM														TO					
	DCS/CRI (A-9)	FEATURE (A-13)	A/R (A-2)	LEAD COLOR (A-8)	UN (A-3)	PLT NO (E-3)	TYPE CPNT (A-6)	DESIG (A-8)	TERM (A-5)	"X" LOC (E-4)	"Y" LOC (E-4)	UN (A-3)	PLT NO (E-3)	TYPE CPNT (A-6)	DESIG (A-8)	TERM (A-5)	"X" LOC (E-4)	"Y" LOC (E-4)	LOC CA (A-1)	NOTE (A-4)
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1-9 10-22 23,24 25-32 33-35 36-39 40-45 46-53 54-58 59-61 62-64 65-67 68-71 72-77 78-85 86-90 91-93 94-96 97 98-102

FIELD CHARACTERS