

DESIGNATION CARDS FOR SELECTOR MULTIPLE METHOD OF USING STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section covers the method of using the selector multiple designation cards per E-2139, P-30B490 and P-30B492 in step-by-step and community dial offices.

1.02 This section is reissued to show the use of the P-30B490 and P-30B492 multiple designation cards. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The selector multiple designation card (Form E-2139) is made of cellulose acetate. The ruling and common information are printed on the back in order that erasures made on the front of the card in connection with trunking changes will not affect this ruling. A white card for use as a background and a transparent cellulose acetate face-plate are supplied with the designation card. Black India ink should be used for the lettering on the face to show the trunking arrangements.

1.04 The P-30B490 and P-30B492 cards are made of laminated vinylite and the format is printed on an opaque white base bonded to a clear mat surface overlay on which the tracing entries are placed. These cards are designed for typewritten entries, but hand lettering, using black India ink may be employed if local conditions indicate this departure to be desirable.

1.05 The typewritten and hand lettered entries can be erased by means of a suitable eraser and the hand lettered entries may also be removed by means of a damp cloth. When removing a small portion of the entries an erasing shield may be desirable.

2. USE OF FORM E-2139

2.01 The dimensions of the form, the white background card and the transparent face-plate are such that they fit without modification in the standard two-unit card holders on selector frames arranged to accommodate 10 switches per shelf on universal selector frames or 20 switches per shelf on DTA type selector frames. (See Fig. 1.)

2.02 For use in single-unit card holders on certain other frames with selector shelves arranged to accommodate 10 switches, cut the form in two at the mark designated B (see Fig. 1) and use the left-hand portion. Also cut the white card and the transparent face-plate to the same size.

2.03 In those installations of step-by-step equipment where the trunking arrangements require triple-unit card holders, two Forms E-2139 can be combined for use in place of the paper designation card D-53112. This can be done by cutting one card at the marks A and D, and by cutting a second card in two at the mark C and trimming this portion of the form at D. This

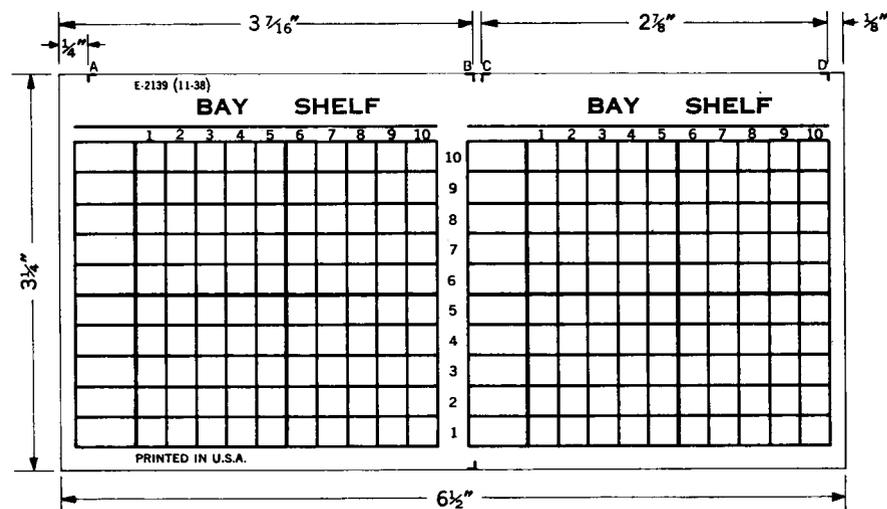


Fig. 1

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portion of the second form can then be combined with the first form to make up the triple-unit designation card, as illustrated in Fig. 2. The white cards and face-plates should be cut so that their seams will not coincide with that formed by the two portions of Form E-2139.

3. USE OF FORMS P-30B490 AND P-30B492

3.01 Figs. 3 through 8 cover typical examples of the methods of filling out the selector multiple designation card per P-30B492, and P-30B490 which is intended for use on distributing terminal assembly type selector frames. It provides for the tabulation of forward tracing information by selector levels. Each card provides forward tracing information from the banks of all half shelves on a selector frame for the indicated level. Columns 1 through 10 on the designation card represents bank terminal 1 through 10 for the 32 half shelves indicated by the letters at the sides, the letters at the left being for the left half shelves in the odd numbered left bay and those at the right for the right half shelves in the even numbered right bay. The intersections of the horizontal half shelf spaces and the vertical columns form the reference points for the forward tracing information. However, as will be noted, forward tracing entries are placed only in horizontal spaces corresponding with the uppermost half shelves before which outgoing trunks are multiplied without a reversal. Therefore, if at a given intersection of a half shelf space and a terminal column there is no entry, the procedure is to follow upward in that terminal column to the first entry, which is the desired forward tracing information.

3.02 The entries in the "Misc" column for succeeding bay numbers, position numbers, type of equipment, class of service, etc, shall be entered in spaces for first and last equipped half shelves to which a given entry applies. A maximum of three succeeding selector bay numbers or two connector frame numbers may be entered in this column in the same horizontal shelf space, and in cases of more than one bay number the succeeding circuit numbers are placed in the same horizontal line as the associated bay number. The same is true of a maximum of two lines of position numbers as illustrated in Fig. 4. If such entries per horizontal space exceeds these numbers, however, they shall be dispersed horizontally among the terminal columns as indicated in Fig. 5 for connector bays.

3.03 It will be noted that the forward tracing information for trunks to desks and switchboards in Figs. 4 and 6 is set up in terms of positions and trunk numbers in the positions, or panel and jack numbers. If it is preferred to put information in the form of relay rack bay and trunk circuit numbers it shall be considered as optional standard.

3.04 Fig. 5 representing selector level trunks to connector shelves are on the basis of multishelf hundreds groups. In the case of single shelf groups the shelf letter prefixes are of course omitted and the connector frame number in the "Misc" column and the connector numbers in columns 1 through 10 shall be placed on the center typewriter line in the horizontal spaces as for selectors in Fig. 3.

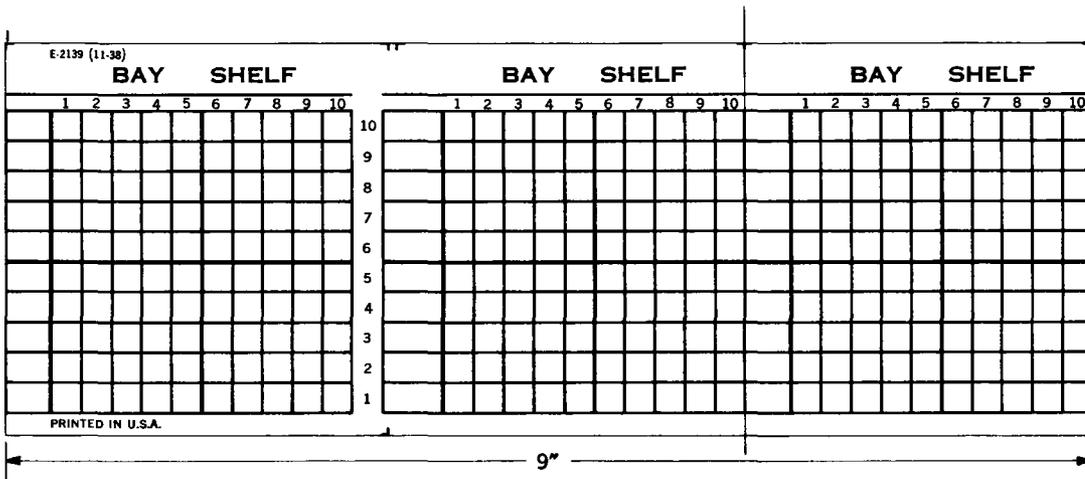


Fig. 2

3.05 The types of digit absorbing and blocking information to be entered in the "C" column are indicated at the bottom of each card and examples of such entries are illustrated in Figs. 3 and 8. It is intended that if there are no such entries in any horizontal shelf space, all selectors trunk hunt on the level represented. However, in order to avoid the necessity of having to repeat these entries in all half shelf space on a frame having these requirements, but at the same time providing some form of positive information as to which shelves are involved, the symbol specified at the lower right of the card and illustrated in use in Fig. 8 is adopted to indicate that all shelves intervening between the upper and lower digit absorbing or blocking entries are the same. In the case of four or less consecutive half shelves, the digit absorbing or blocking symbols should be entered for each half shelf as in Fig. 3. The entries "A2" and "B2" for absorb or block on the second digit apply to the "two-digit" absorbing and blocking features. Entries in the "C" column for a particular horizontal shelf space should be placed in the same relative position as shown on the bottom of the card.

3.06 These cards are to be contained in a bin type card holder per P-30B493. One such card holder will hold all of the cards for the 10 levels, and shall be mounted in the space of and in the same manner as the present left card holder on the front of the distributing terminal assembly bay. In order that the cards for different levels will come to different heights in the holder for ready selection, cutting lines are provided at the bottom of the cards with instructions for cutting the cards to length in accordance with the level covered, as illustrated in Figs. 7 and 8. Retaining slots are provided on the front of the card holder for placing a card being used in full view for ready observation.

3.07 Fig. 7 illustrates the card per P-30B490 for use on universal switch frames with 10-capacity selector shelves, to be mounted in card holder P-30B491 similar to P-30B493 but shorter. The shelf letters for the 8 shelves of an 11'-6" frame are indicated at the left of the card. The same principles apply to filling out these cards as for the P-30B492 cards, but since each card contains information for two levels, additional individual level entries are required as indicated in Fig. 7.

LEV. - 1													
HALF SHS. IN BAY - 101		TERMINATION - SERV. CODE SEL. - "AR"										HALF SHS. IN BAY - 102	
C	MISC	1	2	3	4	5	6	7	8	9	10		
A	101	21	22	23	24	25	26	27	28	28	28		
B													
												A	
	101											B	
C	A	-	-	-	-	-	-	-	-	-	-		
	R											I	
D	A												
	R												
	A											C	
	R												
	A											D	
	R												
E	101	21	22	23	24	25	26	27	28	28	28		
F													
												E	
												F	
G													
H													
												G	
												H	
I													
J													
		27	26	25	24	23	22	21				I	
												J	
K													
L													
												K	
												L	
M													
N													
												M	
												N	
O													
P													
												O	
	101											P	
C	MISC	1	2	3	4	5	6	7	8	9	10		

INDICATES NO CONNECTION WHATSOEVER

FIG 3 EXAMPLE OF FIRST SELECTOR FRAME 101-102 - LEVEL 1
 SHELVES A LEFT TO B RIGHT - FR 1ST SELECTORS
 SHELVES C LEFT TO D RIGHT - DIGIT ABSORBING REPEATEDLY SERV. CODE SELS.
 SHELVES E LEFT TO O LEFT - CB 1ST SELECTORS
 SHELVES P LEFT TO P RIGHT - MR 1ST SELECTORS

LEV. - 2											
HALF SHS. IN BAY - 541					TERMINATION - CONNECTORS					HALF SHS. IN BAY - 542	
CONN. NO.	1	2	3	4	5	6	7	8	9	10	
A	SF702 C103	B1	C1	C6	C8	C10	D1	D2	D3	D4	D5
B		B2									
		B3	C2								A
		B4									B
C		B5	C3								
D		B6									
		B7	C4	C7	C9	D4	D3	D2	D1	C10	C
		B8									D
E		B9	C5								
F		B10									
	SF702 C103										E
	SF712 C104 C105	B1	C1	C6	C8	C10	D1	D2	D3	D4	D5
G		B2									
H		B3	C2								
		B4									G
		B5	C3								H
I		B6		C7	C9	D4	D3	D2	D1	C10	
J		B7	C4								
		B8									I
		B9	C5								J
K		B10									
L	SF731	C108 A10	C109 B9	C8	D7	C6	B5	C5	C109 D5	C110 E5	C109 A4
		C109 B10	C9	C109 D8							K
				C110 E7	C109 D6						L
M											
N		C108 C10	C108 D9	C109 E8							
											M
		C109 D10	C110 E9	C108 A7	C108 A6	C110 B6	C110 E5	C109 D5	C5	C109 B5	N
O											
P		C110 E10	C108 A8	C109 B7							
					C109 B6	C108 A5					O
	SF731	C108 A9	C109 B8	C109 C7							P

FIG 5 EXAMPLE OF FIFTH SELECTOR FRAME 541-542 - LEVEL 2 TO CONNECTORS ON ONE, TWO OR THREE CONNECTOR FRAMES

LEV. - 7													
HALF SHS. IN BAY - 249	TERMINATION - LOCAL 4TH SELECTORS									HALF SHS. IN BAY - 250			
C	M	S	C	1	2	3	4	5	6	7	8	9	10
A	445 447 448	81	83	92	23	55	28	93	88	24	90		
B		89	51	87									
C		86		96									
D			22	21									
E		95	94	97									
F													
G			99										
H		26	30										
I	445 447 448	54	98	100	85								
J				53									
K		27	29										
L	446 447 448	81	83		43	56	48		88	44	90		
M				32									
N		89	60	87									
O													
P		86	42	41	36								
Q													
R		35	34	37									
S		82		84	59	45	44		88		48		
T			31							33			
U													
V		46	39	50									
W													
X													
Y		57	38	40									
Z													
AA	446 447 448	47	49	58									
AB													

IND. IN "C" COLUMN FOR DIG. ABS. & BLEG. -SPACE CHARACTERS - VERTICALLY AS INDICATED

A ABSORBS ONCE ONLY, ABSORBS REPEATEDLY, OR BLOCK-ALSO ABSORBS OR BLK ON 1ST DIG./2 2ND DIG.

B ABSORBS OR SAME ON INTERV. SHOWN

CUT HERE FOR LEVS 1 & 2

CUT HERE FOR LEVS 3 & 4

CUT HERE FOR LEVS 5 & 6

FIG 8 EXAMPLE OF DIGIT ABSORBING 2ND SELECTORS FRAME 249-250 - LEVEL 7 TO LOCAL 4TH SELECTORS