# DESIGNATION CARDS FOR SELECTOR MULTIPLE METHOD OF USING

# STEP-BY-STEP SYSTEMS

#### 1. GENERAL

- 1.01 This section covers the method of using P-30B490, P-30B492, P-40G182 through P-40G196, and E-2139 selector multiple designation cards in step-by-step and community dial offices.
- 1.02 This section is reissued to include the use of P-40G182 through P-40G196 cards (Fig. 1 through 10) and to revise the figures showing examples of the methods for filling out the cards. Since this reissue covers a general revision, arows ordinarily used to indicate changes have been omitted.
- through P-40G196 cards are made of laminated vinylite. 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 or handlettered entries. Hand lettering is preferred and, when employed, a Dixon 368 ultramarine pencil should be used. Black India ink may also be used. The cards should first be rubbed with draftsman pounce if India ink is to be used. This treatment will assure better adherence of the ink to the plastic surface.
- 1.04 The E-2139 selector multiple designation card (Fig. 11 and 12) is made of cellulose acetate. The ruling and common information are printed on the back so 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 faceplate are supplied with the designation card. Black India ink should be used for the lettering on the face to show the trunking arrangements.

- 1.05 The typewritten and hand-lettered entries can be erased. The hand-lettered India ink entries can also be removed with a damp cloth. When removing a small portion of the entries, an erasing shield may be desirable.
- 1.06 Where P-30B490 and P-30B492 cards (Fig. 13 and 14) are still in use, the method of making entries is the same as for making entries on P-40G182 through P-40G196 cards.

### 2. USE OF P-40G182 THROUGH P-40G196 CARDS

Fig. 1 through 8 cover typical examples of the methods of filling out P-40G187 through P-40G196 selector multiple designation cards which are used on distributing terminal assembly-type selector frames. These cards provide for the tabulation of forward tracing information from the banks of all half-shelves on a selector level. Columns 1 through 10 on the designation card represent 1 through 10 bank terminals for the 32 halves indicated by the letters at the sides. The letters on the left side of the card are for the left half-shelves in the odd numbered left bay, and those at the right are 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, forward tracing entries are placed only in horizontal spaces corresponding with the uppermost half-shelves where outgoing trunks are multipled 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.

The entries in the "Misc" column for suc-2.02 ceeding bay numbers, position numbers, type of equipment, class of service, etc are entered in spaces for first and last equipped halfshelves 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; 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. 6. If such entries per horizontal space exceed these numbers, the additional frame numbers only are dispersed horizontally among the terminal columns as indicated in Fig. 3 for connector bays. Those numbers in excess of three succeeding selectors or two connector frames are placed on the first line in the terminal column as can be seen in Fig. 3 on half-shelf A in selector frame 543, terminal column 9. This number in excess is connector frame number C110. The connector shelf and switch number, E5, is placed under the frame number. Connector frame numbers C108 and C109 filled the "Misc" column and made it necessary to place C110 in the terminal column. Fig. 4 gives the same information with all the connector frames placed in the terminal columns and none in the "Misc" columns. If there is no frame number entry in the terminal column, the frame numbers in the "Misc" column apply.

2.03 The forward tracing information for trunks to desks and switchboards in Fig. 6,7, and 8 is set up by 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 is considered as optional standard.

2.04 Fig. 3, 4, and 5 representing selector level trunks to connector shelves are on the basis of multi-shelf hundreds groups and show different methods of indicating forward tracing information on the card. In the case of single shelf groups, the shelf letter prefixes are omitted, and the connector frame number in the "Misc" column and the connector numbers in columns 1 through 10 are placed on the center in the horizontal spaces as for selectors in Fig. 1.

2.05 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 Fig. 1 and 2. If there are no such entries in any of the horizontal shelf spaces, all selectors trunk hunt on the level represented. To avoid repeating these entries in all half-shelf spaces on a frame having these requirements, but at the same time providing information as to which shelves are involved, the symbol specified at the lower right of the card is adopted (Fig. 2). This symbol indicates that all shelves between the upper and lower entries in the "C" column are the same. In the same of four or less consecutive halfshelves, the digit absorbing or blocking symbols are entered for each half-shelf as in Fig. 1. The entries "A2" and "B2" for absorb or block on the second digit apply to the "2 digit" absorbing and blocking features. Entries in the "C" column for a particular horizontal shelf space are placed in the same relative position as shown on the bottom of the card.

2.06 These cards are contained in a bin-type P-30B493 card holder. One such card holder holds all of the cards for the ten levels and is mounted in the same way as the present left card holder on the front of the distributing terminal assembly bay.

2.07 Fig. 9 and 10 illustrate P-40G182 through P-40G186 cards for use on universal switch frames with ten capacity selector shelves to be mounted in card holder P-30B491 (similar to P-30B493 but shorter). The shelf letters for the eight shelves of an 11-foot 6-inch frame are indicated at the left of the card. The same principles apply to filling out these cards as for the P-40G187 through P-40G196 cards, but since each card contains information for two levels, additional individual level entries are required as indicated in Fig. 9.

## 3. USE OF E-2139 CARD

3.01 The dimensions of the form, the white background card, and the transparent face-plate 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. 11).

3.02 For use in single-unit card holders on certain other frames with selector shelves arranged to accommodate ten switches, cut the

form in half at the mark designated B (Fig. 11) and use the left portion. Also cut the white card and the transparent faceplate to the same size.

3.03 In those installations of step-by-step equipment where the trunking arrangements require triple-unit card holders, two E-2139 cards can be combined for use in place of the paper designation D-53112 card. This can be done by

cutting one card at marks A and D, and by cutting a second card in half at mark C and trimming this portion of the card at D. This portion of the second card can then be combined with the first card to make the triple-unit designation card, as illustrated in Fig. 12. The white cards and faceplates should be cut so that their seams will not coincide with that formed by the two portions of E-2139 card.

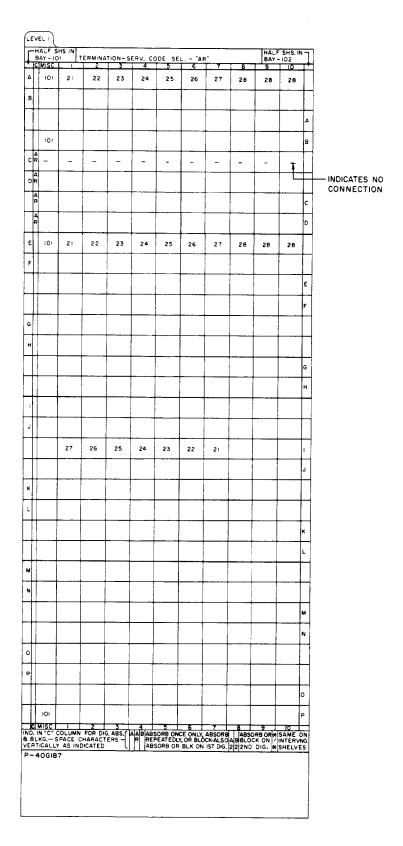


Fig. 1 — Example of First Selector Frame 101-102 — Level 1, Shelves A Left to B Right — FR 1st Selectors, Shelves C Left to D Right — Digit Absorbing Serv Code Selectors, Shelves E Left to O Left — CB 1st Selectors, Shelves P Left to R Right — MR 1st Selectors

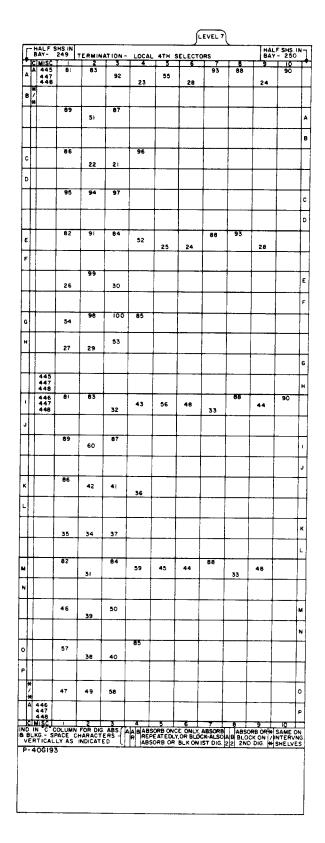


Fig. 2 — Example of Digit Absorbing 2nd Selector Frame 249-250 — Level 7 to Local 4th Selectors

	ALF SH		TERMINATION - CONNECTORS								HALF SHS. IN BAY-544		
10	MISC		2	. 3	. 4	5	6	7.	. 8	1 9	10	Ι	
A	SP731 CI08 CI09	AIO	B9	се	D7	C6	B5	C5	D5	E5	A4	I	
9												Ī	
		ВІО	C9	DB								Ī	
					CIIO E7	D6							
c		CIO	09	E8									
a												Ī	
		DIO	CIIO E9	Α7	A6	C110 E6	CIIO E5	D5	C5	<b>B</b> 5		1	
												Ī	
E		CIIO	A8	B7								1	
F					86 86	A5							
		А9	E.8	C7									
T	SP731		1 -			1	1			1		1	
Ţ	C108									L	L		
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-						1						1	
+	MISC			3	4	5	6	7	8	9	10	1	
INC	). IN "C	" COL	JMN FOR	DIG.	AABA	BSORB OF	VCE ONLY,	ABSORE	ABS	ORB OR	SAME	ċ	
			NDICATED	ACTERS	RR	EPEATER	DLY, OR BLO R BLK ON	OCK-ALSO	DABBLO	DOK ON	/ INTER		
Ρ-	- 40G18	37										_	

Fig. 3 — Example of Fifth Selector Frame 543-544 —
Level 1 to Connectors on More Than Two
Connector Frames, 2 Frame Numbers in
Misc Column — Remaining Frame Numbers
Dispersed Through Terminal Columns

HALF SHS. IN BAY - 543 TERMINATION - CONNECTORS										HALF SHS. IN -		
	MISC	1 1	2	1 3	4	5	6	7 7	8	1 9	1 10	۲
Α	SP731	C108 A10	C109 B9	C8	D7	C 6	85	C5	C109 D5	CIIO E5	C109	
В												
		C 109 B10	С9	.C 109 D 0								4
1					CIIO E7	C109						В
С		C 108	C 108	C109 E8								Ī
٥												I
		C 109 D10	C110 E9	C108 A7	C 108	CIIO E6	C110 E 5	C109 D5	C5	C109 B5		c
												C
Ε		E10	CIOB A8	C109 B7								
F					C109 B6	C108 A5						
1		C108 A9	C109 88	C109 C7								Ε
1	SP731											F
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	40GI8				41115						<u> </u>	

Fig. 4 — Example of Fifth Selector Frame 543-544 —
Level 1 to Connectors on More Than Two
Connector Frames — All Frame Numbers
Entered in Terminal Columns

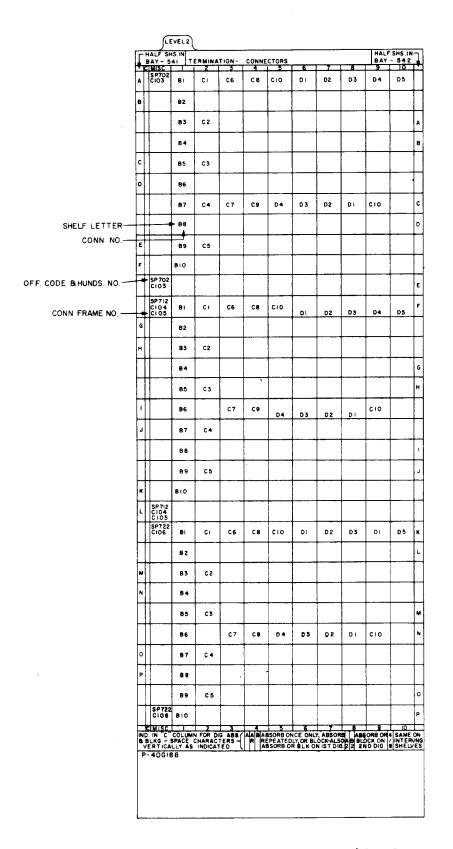


Fig. 5 — Example of Fifth Selector Frame 541-542 — Level 2 to Connectors on One or Two Connector Frames

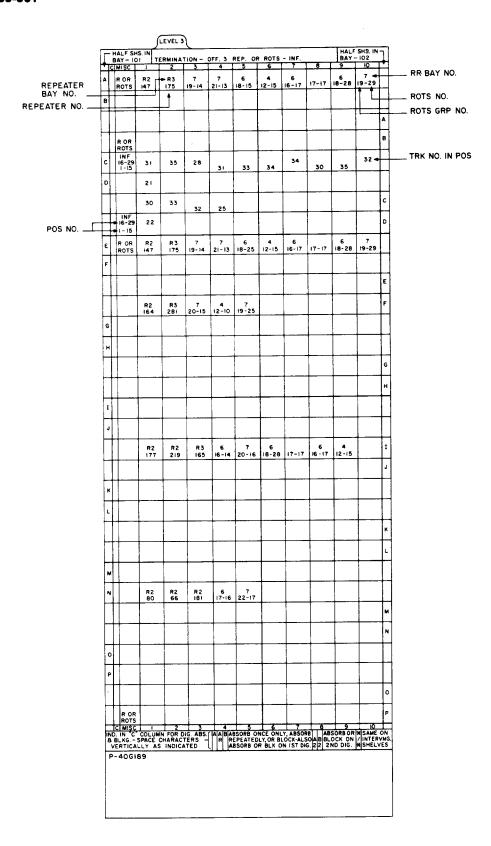


Fig. 6 — Example of First Selector Frame 101-102 — Level 3 to Interoffice Repeaters and Rotary Out Trunk Switches and Trunks to Information Desk — Same Selector as in Fig. 1

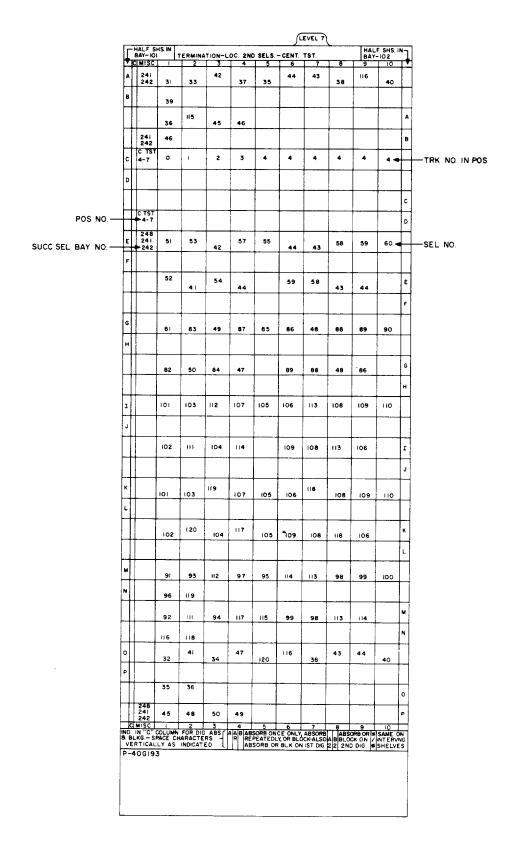


Fig. 7 — Example of First Selector Frame 101-102 — Level 7 to Local 2nd Selectors and Trunks to Central Test Desk — Same Shelves as in Fig. 1

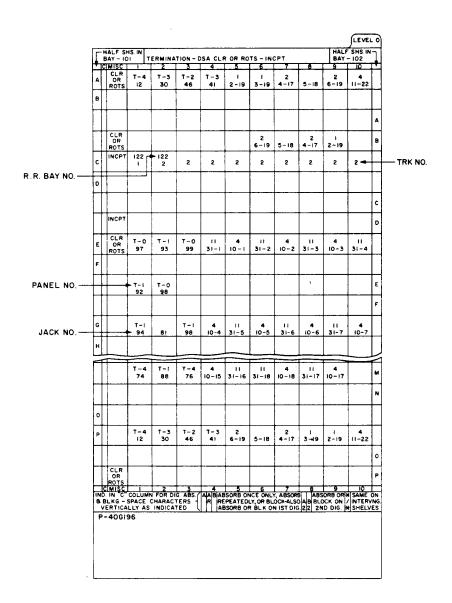


Fig. 8 — Example of First Selector Frame 101-102 — Level 0 to DSA CLR Trunks, Rotary Out Trunk Switches, and Intercepting Trunks — Same Shelves as in Fig. 1

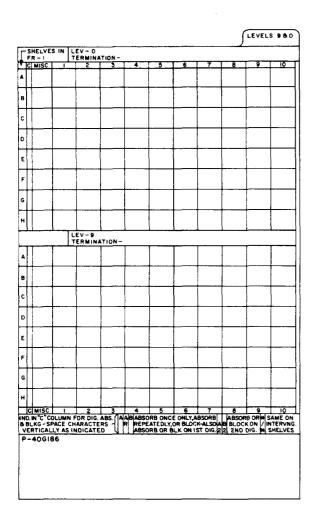


Fig. 9 — Designation Card for Universal Switch Frames — Indication of Frame and Level Numbers — Otherwise Same Principles as in Fig. 1, 2, and 3

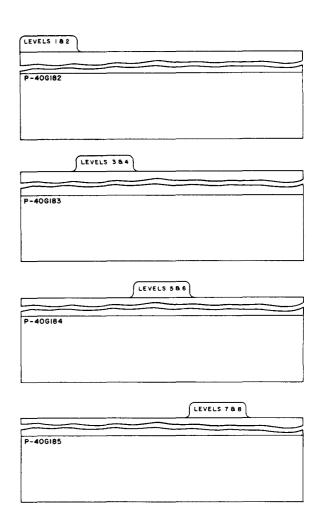


Fig. 10 — Cards Same as P-40G186 Except for Number Tabs

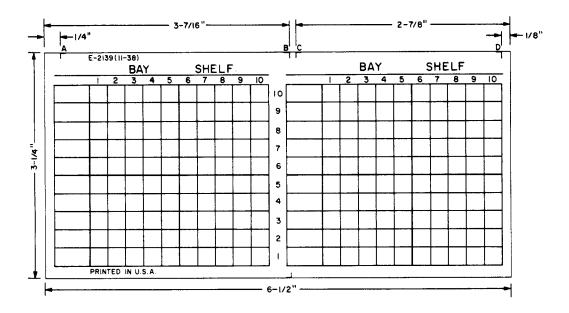


Fig. 11 — Two-Unit E-2139 Card

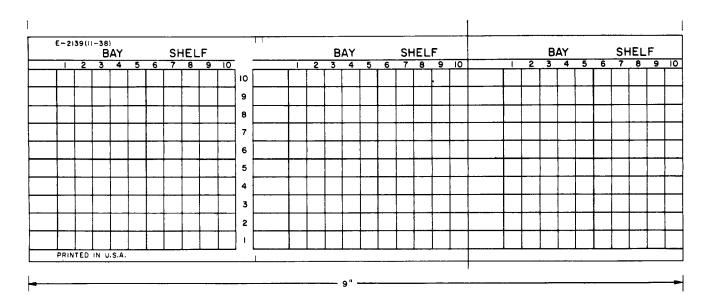


Fig. 12 — Triple-Unit E-2139 Card

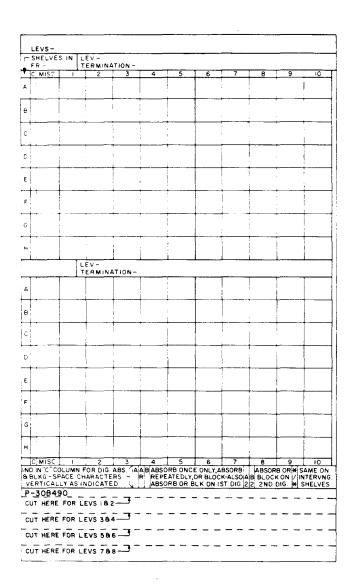


Fig. 13 — P-30B490 Selector Multiple Designation Card for Universal Switch Frames

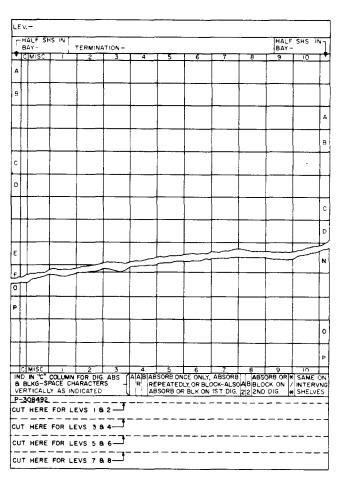


Fig. 14 — P-30B492 Selector Multiple Designation Card for Distributing Terminal Assembly Frames