

MOUNTING PLATES

INTRODUCTION

This is one of a series of Engineering Reference Data Bulletins containing information on apparatus designed by the Bell Telephone Laboratories, Incorporated for other than military applications, and manufactured by the Western Electric Company or by other suppliers in accordance with specifications prepared by the Bell Laboratories. It is intended primarily for use by engineers of the Bell Laboratories and contains information on apparatus which may be rated AT&TCo Standard, A&M Only, Component Part, or Special; codes classified ML; or codes designated for nonassociate use. Codes rated Manufacture Discontinued are not included.

Items designated as PREFERRED are those recommended for use wherever practicable. Items not so designated are NONPREFERRED and should not be specified in new applications unless there is no other way of economically accomplishing the desired results. The NONPREFERRED items include: (a) the older designs which may have been superseded but are still required for maintenance purposes, (b) designs more expensive to manufacture than others which may perform the same functions, and (c) items in such small demand that they are more costly to furnish.

Extra emphasis should be placed on the selection of 2-inch mounting plates, 23 inches long, as pointed out in PEL 4710, dated August 2, 1950. The use of these plates has certain advantages because of their adaptability to surface wiring, improved maintenance of relays, increased versatility, and use of relays equipped with pretensioned springs. Mounting plates, in general, are drilled or perforated to mount particular apparatus. However, they can be furnished equipped with, drilled, or perforated for other apparatus in various positions. The general tendency is to utilize drill-per-order mounting plates having a row or rows of position centers with 1/8-inch incremental spacings. Orders for this type of mounting plate must specify the

position centers of the particular apparatus intended to be mounted. A listing of drill-per-order mounting plates, arranged in order of length and indicating the number of drilling positions, is shown in Section VI, General Design Data.

It is planned to bring this bulletin up to date periodically. However, the information shown herein may not be complete and ratings of the items are not shown. Therefore, the final selection of apparatus should be made on the basis of the usual sources of information such as the Western Electric Apparatus Card Catalog, the manufacturing specifications, and price data. For information regarding the output of apparatus, refer to the Western Electric Report A-822.1.

The bulletin may include some codes of apparatus for which catalog cards will not be found in the Western Electric Apparatus Card Catalog. Such codes are in general rated "Component Part." This rating is applied to apparatus where it is believed that the associated telephone companies will have no need for apparatus card catalog information and orders for the apparatus from the field are not expected.

When apparatus which is not listed on a white card in the Western Electric Apparatus Card Catalog is selected for use in new applications, the Head, Standards and Materials Engineering Department, Department 8251, Bell Telephone Laboratories, Incorporated, Holmdel, New Jersey, should be informed of the new use and probable demand so that consideration can be given to rerating the apparatus. When such new applications are made within the Bell Laboratories, the selection should first be discussed with the department responsible for the design of the apparatus.

Mounting Space: The mounting space required for mounting plates is normally $1/32$ inch greater than the width of the plate as specified in the tables.

Finish: In general, the mounting plates listed herein have a Zinc Plate No. 289A finish.

Mounting the Plates on Framework: Plates are regularly designed for mounting in accordance with the figures shown on page I-9 for channel types and page II-12 for flat types.

Mounting Arrangement of Apparatus on Plate: A mounting plate is regularly designed so that when apparatus is assembled on it, the plate will be suitable for mounting with its length in a horizontal plane, unless otherwise specified.

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SECTION 1
CHANNEL TYPE MOUNTING PLATES





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CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
6	1-31/32	0.090	4	Slots	252A
7-15/16	1-31/32	0.090	6	Holes	196A
8	1-31/32	0.090	5	Slots	186
8	1-31/32	0.090	6	Holes	253
9.68	1.96	0.090	7	Holes	292A
9-3/4	1-31/32	0.090	5	Slots	197A
10	1-31/32	0.090	5	Slots	182
10	1-31/32	0.090	6	Holes	271A
10	3-7/32	0.090	9	Holes	962C & D
10-5/16	1-31/32	0.090	5	Slots	166 (a)
10-7/16	1-31/32	0.090	6	Holes	200A (a)
11.32	6.44	0.090	7A	Holes	389A
11-1/2	1-31/32	0.090	6	Holes	265A
12-3/8	1-31/32	0.090	7	Holes	258A
13	1-31/32	0.090	6	Holes	193A

(a) Arrangement of apparatus requires length of plate to be vertical.

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
13	5	0.090	Spl	Holes	299A
13-3/4	1-31/32	0.090	5	Slots	201A
14.84	1.40	0.050	Spl	Holes	363A
15	1-31/32	0.090	6	Holes	282A
15-1/2	1-31/32	0.090	6	Holes	236A
15.68	1.96	0.090	6	Holes	294A
15.75	1.96	0.090	7	Slots	384A
15.75	3.96	0.090	7	Slots	385A
16-1/2	1-31/32	0.090	5	Slots	910
16-1/2	1-31/32	0.090	6	Holes	251A
16-11/16	1-23/32	0.090	5	Slots	179
17-1/2	1-23/32	0.090	5	Slots	176
17-1/2	1-31/32	0.090	6	Holes	194A
17.9	1.96	0.090	7	Holes	360A
17.9	1.96	0.090	7	Holes	285A

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
17.9	3.96	0.090	7	Holes	286A
18	1-31/32	0.090	5	Slots	217A
18.9	3.96	0.090	7	Holes	368A
19	1-23/32	0.090	9A	Holes	266A
19	1-31/32	0.090	7	Holes	224A
19	1-31/32	0.090	6	Holes	229A
19	1-23/32	0.083	9	Holes	(P) 737
19	2-23/32	0.083	9	Holes	738A
19	1-31/32	0.090	5	Slots	964
19	3-15/32	0.090	9A	Holes	267A
19	3-31/32	0.090	6	Holes	270A
19	5-7/32	0.090	9A	Holes	268A
19	5-7/32	0.090	9A	Holes	263A
20	1.96	0.090	7	Holes	288A
20	6.96	0.090	7	Holes	289A

(P) Preferred code.

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
20	3.96	0.090	7	Holes	367A
20-1/2	1-31/32	0.090	5	Slots	150
20-1/2	1-31/32	0.090	6	Holes	242
20-1/2	1-31/32	0.090	6	Holes	247
20-1/2	1-31/32	0.090	5	Slots	259
20-1/2	5-31/32	0.090	5	Slots	260A
21.25	3.75	0.090	7	Holes	392A
21-3/8	1-23/32	0.090	4	Slot	240
21.375	1.46	0.090	5	Slots	393A
21-5/8	1-23/32	0.083	9	Holes	745
21-5/8	1-23/32	0.083	9	Holes	756B
21-5/8	1-31/32	0.090	6	Holes	269A
23	1-23/32	0.078	9	Holes	257A
23	1-31/32	0.090	8	Slots	(P) 151
23	1-31/32	0.090	5	Slots	(P) 158

(P) Preferred code.

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
23	1-31/32	0.090	6	Holes	(P) 189
23	1-31/32	0.090	7	Holes	(P) 192
23	1-31/32	0.090	6	Holes	(P) 250A
23	5-31/32	0.090	6	Holes	(P) 228A
23	3-31/32	0.090	6	Holes	(P) 233
23	1-31/32	0.090	6	Holes	245
23	2-31/32	0.090	6	Holes	(P) 248A
23	2-15/32	0.090	Sp1	Slots	249
23	1-23/32	0.083	9	Holes	(P) 750
23	1-31/32	0.090	5	Slots	963
23	7-31/32	0.090	6	Holes	(P) 281A
23	3-15/32	0.090	9A	Holes	(P) 283A
23	3.96	0.090	7A	Holes	(P) 295A
23	2.96	0.090	6	Holes	357A
23	3.96	0.090	7	Holes	(P) 356A

(P) Preferred code.

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
23	1.96	0.090	7	Holes	379A
23	7.96	0.090	7A	Holes	362A
23	7.96	0.090	7	Holes	(P) 378
23	5.96	0.090	7	Holes	(P) 388A
25	1-31/32	0.090	5	Slots	180
25	1-23/32	0.080	9	Holes	191A
25	1-31/32	0.090	7	Holes	239A
25	1.96	0.090	7	Holes	390A
25	6.96	0.090	7	Holes	373A
25	1.96	0.090	7	Holes	361A
25	1.96	0.090	7	Holes	290
25	3.96	0.090	7	Holes	291
25	5.96	0.090	7	Holes	350
25	7.96	0.090	7	Holes	353A
25.96	4.72	0.090	7A	Holes	351

(P) Preferred code.

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
26	1-31/32	0.090	5	Slots	153
26	1-31/32	0.090	6	Holes	246A
28	3.75	0.090	6	Holes	365A
29	1-31/32	0.090	6	Holes	255A
30-1/2	1-31/32	0.090	5	Slots	152
30-1/2	1-31/32	0.090	6	Holes	178
30-1/2	1-31/32	0.090	8	Slots	222A
30-1/2	1-31/32	0.090	6	Holes	243
30-1/2	3-31/32	0.090	6	Holes	280A
30.5	1.96	0.090	7	Holes	386A
30.5	1.96	0.090	7	Holes	374A
30.5	3.96	0.090	7	Holes	375A
30.5	5.96	0.090	7	Holes	376A
30.5	7.96	0.090	7	Holes	377A
30.5	3.96	0.090	7	Holes	387A

CHANNEL-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page I-9	Mounting	Code Type
34-5/8	1-31/32	0.090	6	Holes	231A
34-5/8	1-31/32	0.090	6	Holes	244
34.62	1.96	0.090	7A	Holes	366A
35-13/16	1-31/32	0.090	6	Holes	256

NOVEMBER 30, 1966

MOUNTING PLATES

(File as Card No. 1A on Mounting Plates)

For additional dimensions and type numbers, see following cards (No. 1B through 1G).

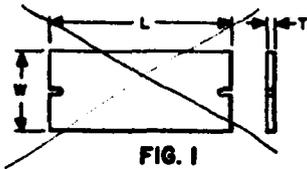


FIG. 1

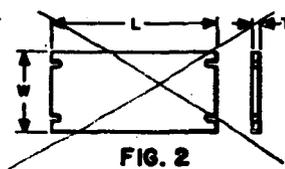


FIG. 2

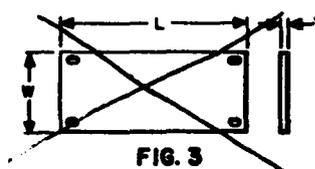


FIG. 3



FIG. 4

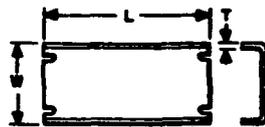


FIG. 5

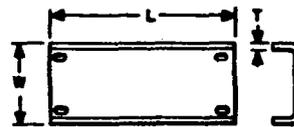


FIG. 6

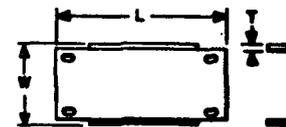


FIG. 7

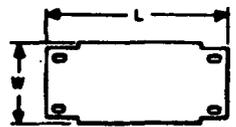


FIG. 7A

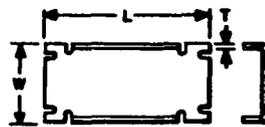


FIG. 8

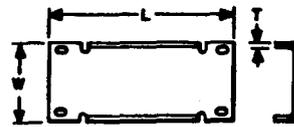


FIG. 9

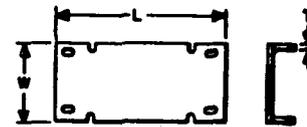


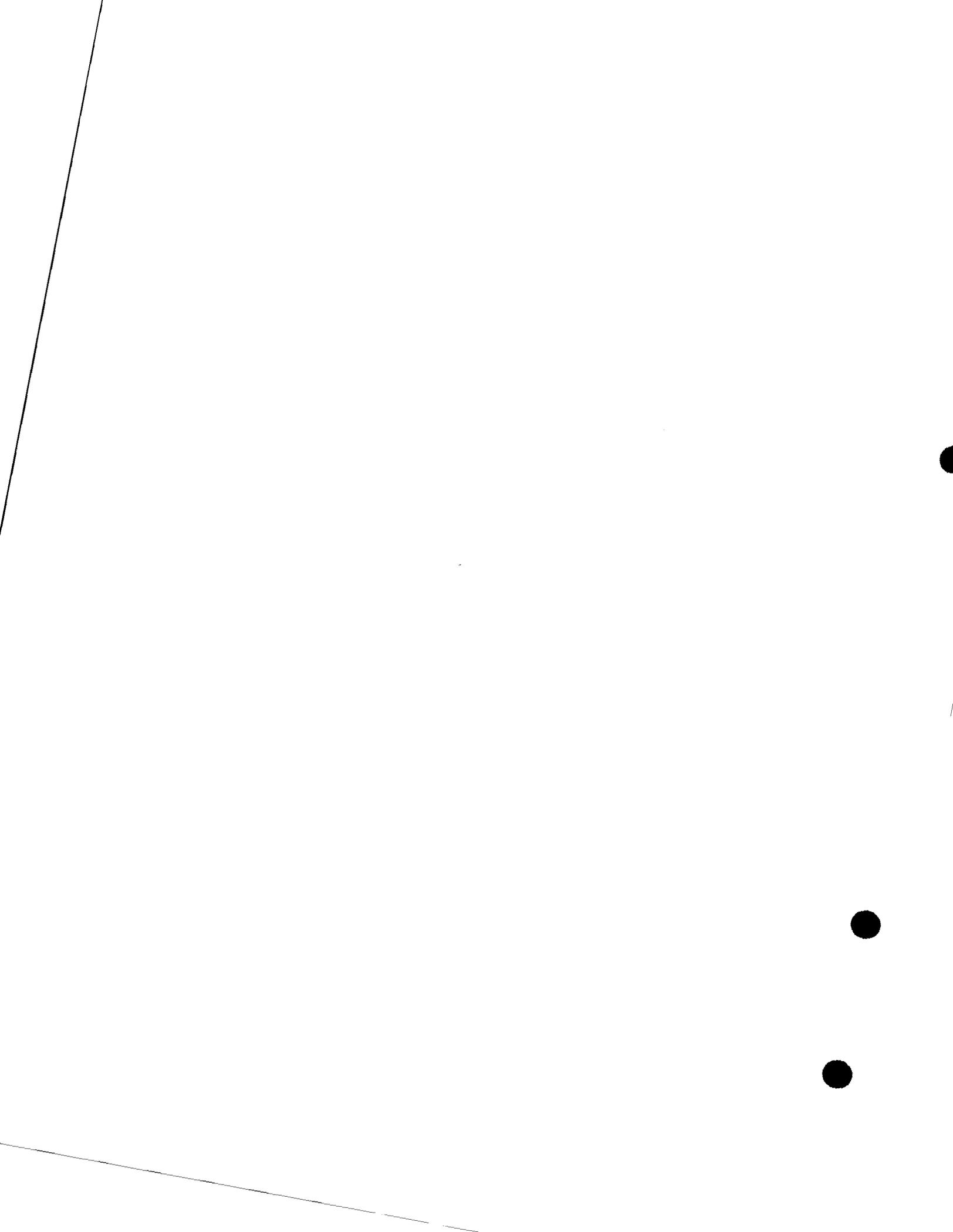
FIG. 9A

NOTE:

THESE FIGURES INDICATE BASIC DESIGN FEATURES ONLY. FOR DETAILED INFORMATION, SEE CATALOG CARDS ON INDIVIDUAL MOUNTING PLATES.

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SECTION II
FLAT TYPE MOUNTING PLATES



**SECTION II
FLAT-TYPE MOUNTING PLATES**



FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
4-1/4	2-23/32	7/32	3	Holes	823 (a)
4-1/2	1-23/32	7/32	3	Holes	881A (d)
4-13/16	2	7/32	1	Slot	759A
6	1-23/32	7/32	2	Slots	650A
6-1/4	1-7/8	7/32	2	Slots	642A
6-1/2	4	7/32	3	Holes	978A
7	1-23/32	1/8	2	Slots	640A
7-1/8	1-23/32	7/32	2	Slots	803
7-1/4	1-23/32	7/32	2	Slots	924A
7-1/2	4	.095	3	Holes	185A (a)
7-3/4	1-23/32	7/32	2	Slots	902
8-1/8	3-3/4	7/32	3	Holes	815B (a)
8-1/4	1-23/32	7/32	2	Slots	918A
8-3/4	3-15/32	7/32	2	Slots	235A
8-3/4	1-23/32	7/32	2	Slots	661

(a) Arrangement of apparatus requires that length of plate be vertical.

(d) Mounting holes at one end only.

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
9-1/4	1-1/4	3/8	2	Slots	914A
9-9/16	3-7/32	7/32	2	Slots	867
9-9/16	1-31/32	7/64	2	Slots	913A
10	1-23/32	7/32	2	Slots	657
10	1-31/32	7/32	2	Slots	922
10	3-7/32	7/32	2	Slots	962A & B
10-3/16	1-23/32	7/32	2	Slots	885
10-3/16	1-23/32	7/64	2	Slots	885D
10-5/16	3-7/32	7/32	2	Slots	181A (a)
10-5/16	1-23/32	1/8	2	Slots	198A
10-5/16	2-23/32	7/32	2	Slots	901A
10-1/2	1-23/32	1/8	3	Holes	199A (a)
10-3/4	1-23/32	7/32	2	Slots	632
10-3/4	1-23/32	1/8	2	Slots	644
11	1-23/32	7/32	2	Slots	955B

(a) Arrangement of apparatus requires that length of plate be vertical.

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
11-1/4	1-23/32	7/32	2	Slots	635
11-1/4	1-1/4	3/8	2	Slots	949
11-1/2	1-31/32	7/32	2	Slots	167A
11-1/2	1-23/32	7/32	2	Slots	752
11-1/2	1-23/32	1/8	2	Slots	753A
11-5/8	1-23/32	1/8	2	Slots	643A
11-5/8	5-1/2	7/32	3	Holes	898A (a)
12	1-31/32	7/32	3	Holes	947A (a)
12-1/8	1-23/32	7/32	2	Slots	766A
12-3/16	3-7/32	7/32	2	Slots	820A
13	1-23/32	7/32	2	Slots	877
13	1-23/32	1/8	2	Slots	877C
13-1/8	3-7/32	7/32	2	Slots	827
14	1-23/32	7/32	2	Slots	888
14	1-23/32	7/64	2	Slots	888B

(a) Arrangement of apparatus requires that length of plate be vertical.

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
14	3-31/32	7/64	2	Slots	911B
14	1-31/32	7/32	2	Slots	912
14	31/32	7/32	1	Slot	275A
14-1/8	1-23/32	7/32	2	Slots	829
14-1/8	1-7/32	7/32	2	Slots	844A
14-1/8	3-15/32	7/32	2	Slots	953A
14-1/8	1-23/32	7/32	3	Holes	975
14-1/2	3-31/32	7/64	2	Slots	941C
14-1/2	1-31/32	7/32	2	Slots	942
14-9/16	3-7/32	7/32	2	Slots	805A
15	1-23/32	7/32	2	Slots	875
15	1-23/32	7/64	2	Slots	875C
15-1/8	1-23/32	7/32	2	Slots	861B
15-1/2	1-31/32	7/32	2	Slots	915A
15.96	5.68	188	Spl	Holes	354A

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
16	1-23/32	7/32	2	Slots	652A
16	1-23/32	1/8	2	Slots	653A
16-1/2	31/32	7/32	1	Slot	154
16-1/2	3-31/32	7/32	2	Slots	909
16-1/2	6-31/32	5/32	2	Slots	969A
16-3/4	3-7/32	7/32	2	Slots	807A
16-3/4	2-23/32	7/32	2	Slots	811A
16-7/8	2-23/32	7/32	2	Slots	771C
16-7/8	2-23/32	7/32	Spl	Holes	940A (a)
17-1/8	3-7/32	7/32	2	Slots	804
17-1/8	1-23/32	7/32	2	Slots	891A
17-3/16	1-23/32	7/32	2	Slots	667
17-3/16	1-23/32	1/8	2	Slots	668A
17-1/2	1-23/32	7/32	2	Slots	810
17-1/2	1-23/32	1/8	2	Slots	812A

(a) Arrangement of apparatus requires that length of plate be vertical.

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
17-1/2	1-23/32	7/32	1	Slot	276A
17-7/8	2	3/16	3	Holes	718A
18	1-23/32	7/32	2	Slots	858B
18	1-31/32	7/32	2	Slots	921B
18	3-31/32	7/64	2	Slots	923B
19	31/32	7/32	1	Slot	155A
19	1-1/4	3/16	2	Slots	232
19	1-3/8	3/16	2	Slots	237A
19	2-7/32	7/32	2	Slots	261
19	1-23/32	7/32	2	Slots	600
19	1-23/32	1/8	2	Slots	601
19	2-23/32	7/32	2	Slots	603A
19	3-15/32	7/32	2	Slots	604A
19	1-1/4	3/8	2	Slots	671
19	1-19/32	7/32	2	Slots	711A

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
19	2-23/32	7/32	2	Slots	748 (e)
19	1-1/4	1/8	2	Slots	834A (c)
19	5-7/32	7/32	2	Slots	845
19	3-15/32	7/32	2	Slots	884
19	27/32	7/16	2	Slots	943 (f)
19	3-15/32	7/32	2	Slots	960
19	3-31/32	7/32	2	Slots	965C
20	1-23/32	7/32	2	Slots	799
20-1/2	1-31/32	1/8	2	Slots	169A (c)
20-1/2	1-23/32	7/32	2	Slots	226
21	3-31/32	7/32	2	Slots	903A
21	1-31/32	7/32	2	Slots	904
21	31/32	7/32	1	Slot	274A
21-5/8	4-11/32	7/32	2	Slots	605B
21-5/8	1-23/32	7/32	2	Slots	606

- (c) Used as a dummy mounting plate and not arranged to mount apparatus.
- (e) Standard slots not centrally located.
- (f) (P) 943K, M, and U mounting plates are 7/32 inch thick.

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
21-5/8	1-23/32	1/8	2	Slots	607B
21-5/8	2-23/32	7/32	2	Slots	608D
21-5/8	2-13/32	7/32	2	Slots	859A
21-5/8	1-23/32	3/8	2	Slots	890A
21-5/8	1-23/32	7/32	3	Holes	974
22-1/2	1-23/32	7/32	2	Slots	664B
23	31/32	7/32	1	Slot	156A
23	1-1/4	3/16	2	Slots	225
23	1-23/32	1/8	2	Slots	602
23	1-23/32	7/32	2	Slots	609
23	4-11/32	7/32	2	Slots	610
23	2-23/32	7/32	2	Slots	660
23	3-15/32	7/32	2	Slots	663
23	1-7/32	7/32	2	Slots	709B
23	2-13/32	7/32	2	Slots	725A

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
23	1-1/4	3/8	2	Slots	848
23	5-7/32	7/32	2	Slots	852
23	27/32	7/16	2	Slots	954
23	3-31/32	7/32	2	Slots	966C
23-1/2	1-23/32	1/8	2	Slots	615D
23-5/8	3-7/32	7/32	2	Slots	828C
24	3-31/32	7/32	2	Slots	905A
24	3-31/32	7/64	2	Slots	905B
24	1-31/32	7/32	2	Slots	906
24	31/32	7/32	1	Slots	273A
24-1/4	1-23/32	1/8	2	Slots	656A
24-1/2	2-23/32	7/32	2	Slots	696
24-7/8	1-23/32	7/32	2	Slots	616A
25	1-23/32	7/32	2	Slots	617
25	1-23/32	1/8	2	Slots	618C

FLAT-TYPE MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Thickness T (Inches)	Fig.No. Page II-12	Mounting	Code Type
25	1-31/32	7/32	2	Slots	919C
26	4-11/32	7/32	2	Slots	625A
26	1-23/32	1/8	2	Slots	626B
26	1-23/32	7/32	2	Slots	627
26	3-15/32	7/32	2	Slots	639A
26-1/4	1-23/32	7/32	2	Slots	666
26-11/16	5/8	5/16	1	Slot	825B
27	1-23/32	1/8	2	Slots	676B
27	1-23/32	7/32	2	Slots	677
27	1-11/32	7/32	2	Slots	706B
27	3-15/32	7/32	2	Slots	715A
27	1-1/4	3/8	2	Slots	785A
28	1-27/32	7/32	2	Slots	959
28-1/4	1-23/32	7/32	2	Slots	680A
30-1/4	1-23/32	7/32	2	Slots	620

NOVEMBER 30, 1966

MOUNTING PLATES

(File as Card No. 1A on Mounting Plates)

FLAT-TYPE MOUNTING PLATES

For additional dimensions and type numbers, see following cards (No. 1B through 1G).

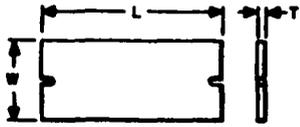


FIG. 1

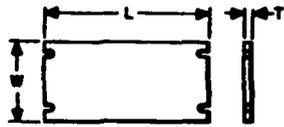


FIG. 2

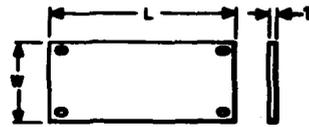


FIG. 3

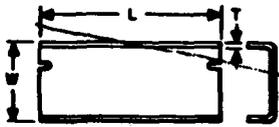


FIG. 4

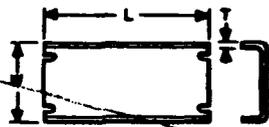


FIG. 5

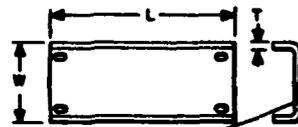


FIG. 6

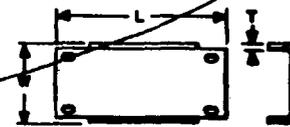


FIG. 7

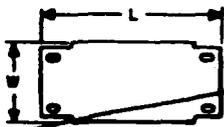


FIG. 7A

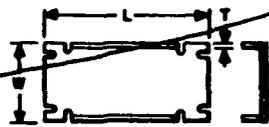


FIG. 8

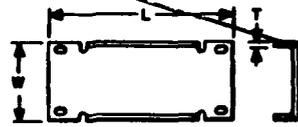


FIG. 9

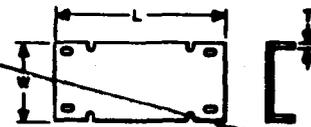


FIG. 9A

NOTE:

THESE FIGURES INDICATE BASIC DESIGN FEATURES ONLY. FOR DETAILED INFORMATION, SEE CATALOG CARDS ON INDIVIDUAL MOUNTING PLATES.

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II-12 June, 1971



ANGLE-TYPE MOUNTING PLATES



ANGLE-TYPE MOUNTING PLATES

The codes marked * are assigned to special purpose plates for mounting specified apparatus. The other codes are for drill-per-order mounting plates which may be used for general purposes.

Code Type	Fig. No.	Available in Item No.	Dimensions (Inches)			
			A	B	C	D
628A	1	All	2-5/8	1-11/16	1-23/32	1/8
628B	1	All	2-5/8	1-11/16	1-23/32	1/8
628C	1	All	2-5/8	1-11/16	1-23/32	1/8
628D	1	All	2-5/8	1-11/16	1-23/32	1/8
628E	1	All	3-17/64	1-51/64	1-23/32	1/8
628F	2	All	4-1/32	3-9/32	1-23/32	1/8
628G	2	4	4-1/32	3-9/32	1-23/32	1/8
629A	1	All	2-23/32	1-11/16	1-23/32	1/8
629C	1	1	2-23/32	1-1/8	1-23/32	1/8
629D*	1	1	3-3/8	1-5/8	1-23/32	1/8
638A	1	All	1-29/32	1-5/8	1-23/32	1/8
638B	1	1	2-5/16	1-23/32	1-23/32	1/8
682A	1	All	1-1/8	1-1/8	1-23/32	1/8
688A*	1	2 & 4	2	1-1/4	1/2	1/8
690A	1	All	3-11/64	1-45/64	1-23/32	1/8
690B	1	All	3-1/16	1-11/16	1-23/32	1/8
690C	1	1 & 3	2-13/32	1-11/16	2-13/32	1/8
690D	1	1 & 3	2-9/16	1-11/16	2-13/32	1/8
690E	1	1 & 3	3-11/64	1-19/32	1-23/32	1/8
690F	1	All	4-1/64	1-45/64	1-23/32	1/8
701A	1	All	3/4	3/4	1-7/8	1/8
746A*	1	4	1-21/32	1-1/2	1-5/16	1/8
747A*	1	4	1-11/32	1-1/4	3/4	1/8

ANGLE-TYPE MOUNTING PLATES

The codes marked * are assigned to special purpose plates for mounting specified apparatus. The other codes are for drill-per-order mounting plates which may be used for general purposes.

Code Type	Fig. No.	Available in Item No.	Dimensions (Inches)			
			A	B	C	D
814A	1	All	2-1/4	1-3/4	5-1/4	1/8
850B*	1	1	2-63/64	1-63/64	1-23/32	1/8
896A	2	1	3-29/32	2	4	1/8
929A	1	All	5-31/64	1-11/16	1-23/32	1/8
958A	2	3	4-25/32	2-1/8	4-5/8	1/8
967A*	1	1 & 3	4-1/2	1-5/8	1-9/16	.090
967B*	1	1 & 3	4-3/4	1-5/8	1-9/16	.090
981A*	1	1	2	1-5/8	3-1/8	1/8
981B*	1	1	2	1-5/8	3-1/8	1/8
991A	2	4	5-25/32	3-9/32	1-31/32	1/8
277A*	2	1	3-1/2	1-1/16	1	3/32

ANGLE-TYPE MOUNTING PLATES

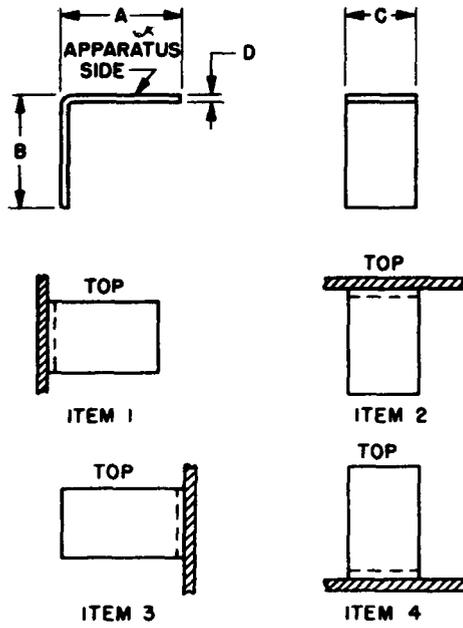


Fig. 1

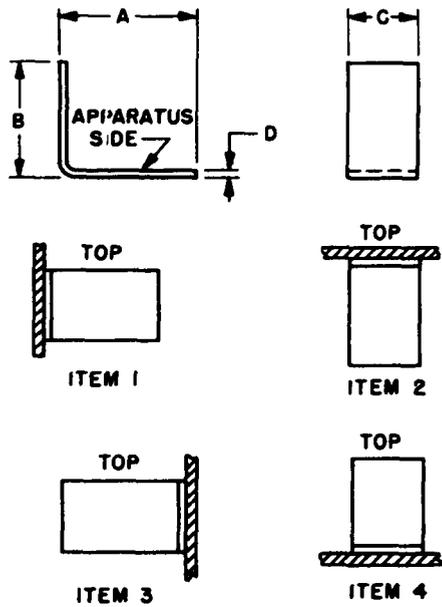


Fig. 2



2







MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
1-23/32	1-23/32	One KS-13930 L4 Socket*	218A	Angle Type- Hole Mounting
4-25/32	1-15/16	218B Relay and Cover 26B Connector Block	874A	Tray Type-Hole Mounting
7	2	Two Capacitors; 1 Relay, 1 Resistor	899A	Bracket Type- Hole Mount- ing (a)
10	1-31/32	Drilled for Nine Hart and Hegeman 20994 Switches	183A	Bracket Type- Slot Mount- ing
10	1-31/32	Drilled for Four Cutler- Hammer 7140 Switches and Seven 18- or 19-Type Resis- tors	188A	Bracket Type- Slot Mount- ing
11-1/4	1-1/4	Drilled for Four 5-Type Message Regis- ters	982A	Bracket Type- Slot Mount- ing

(a) Can be mounted interchangeably with 10-type banks.

* The mounting plate is equipped with this apparatus.

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
11-3/4	7-3/8	441-Type Capacitor, 18- and 19-Type Resistors, 2-Type Timers, U- and Y-Type Relays	165A	Bracket Type-Hole Mounting. Has cover over relays only.
12-5/8	6	Resistors	689A 689B	643A Mounting Plate on wooden panel. For use with old duplex tables.
12-15/16	1/2	Five 201A Jack Mountings	956D	Strip-Hole Mounting-Two required.
13-5/8	1/2	Five 201A Jack Mountings	956C	Strip-Hole Mounting-Two required.
16-11/16	1/2	Seven 201A Jack Mountings	956E	Strip-Hole Mounting-Two required.
17-1/8	1/2	Five 151 Jack Mountings	755C	Strip-Hole Mounting-Two required.
17.90	5.96	Drilled for eleven KS-13364 L3 Sockets	287A	Bent Type-Hole Mounting.

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
19.00	1.25	Four 177-Type Networks, Six KS-16493 Magnetic Counters	296A	Bracket Type-Slot Mounting
19.00	1.376	Eight KS-14171 Jacks, Seven KS-19798 L1 Magnetic Counters	371A	Bracket Type-Slot Mounting
19	1-23/32	Ten KS-13930 L4 Sockets*	219A	Angle Type-Hole Mounting
19	1-23/32	Ten 447A Capacitors	741A	Bracket Type-Hole Mounting
19	1-23/32	Ten 441H or 449A Capacitors	741B	Bracket Type-Hole Mounting
19	3-15/32	C-Type Keys; 40A Lamp Sockets	831C	Flat Type-Slot Mounting; has cover and designation strips.
19	8-11/16	Seven 10-Type Banks	950A	Frame Type-Hole Mounting

* The mounting plate is equipped with this apparatus.

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
19	1-1/4	Four 177-Type Networks, Six KS-16493 Magnetic Counters	278A	Bent Type-Slot Mounting
19	1-3/8	Six KS-14171 Jacks; Four 177-Type Networks, Five KS-16493 Magnetic Counters	279A	Bent Type-Slot Mounting
19-7/8	1/2	Ten 201A Jack Mountings	956B	Strip-Hole Mounting-Two Required
21-7/16	1/2	Six 151 Jack Mountings	755G	Strip-Hole Mounting-Two Required
21-5/8	1-23/32	Ten 441A or 447-Type Capacitors	854A	Tray Type-Slot Mounting
22-15/16	1/2	139A or 140A Terminal Strip	870A	Strip-Hole Mounting-Two Required
23	2-31/32	Drilled for 15 KS-13364 L3 Sockets	215A	Bent Type-Hole Mounting
23	4-31/32	Drilled for 30 KS-13364 L3 Sockets	216	Bent Type-Hole Mounting

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
23	1-23/32	Twelve KS-13930 L4 Sockets*	220A	Angle Type- Hole Mounting
23	1-23/32	Twelve 441-Type Capacitors	871A	Bracket Type- Hole Mounting
23	1-13/32	Eight KS-14171 Jacks; Four 177-Type Net- works; Six KS-16493 Mag- netic Counters	262A	Bent Type-Slot Mounting
23	1-31/32	Drilled for Nine KS-14160 Connectors	272A	Bent Type-Hole Mounting
23.00	1.25	Ten KS-14171 Jacks, Nine KS-19798 L2 Magnetic Counters	372	Bracket Type- Slot Mounting
23.00	1.25	One 330A Ter- minal Strip, Eight KS-16493 L1 Magnetic Counters	372B	Bracket Type- Slot Mounting
23.00	1.25	One 330A Ter- minal Strip, Ten KS-19948 L1 Magnetic Counters	372C	Bracket Type- Slot Mounting

* The mounting plate is equipped with this apparatus.

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
23.00	3.875	Four 177-Type Networks, Six KS-16493 Mag- netic Counters	297A	Bracket Type- Slot Mounting
23.00	5.062	Four 177-Type Networks, Six KS-16493 Mag- netic Counters	298A	Bracket Type- Slot Mounting
23-5/16	8-11/16	Drilled for Ten Banks	869A	Frame Type- Hole Mounting
23-13/16	1/2	Twelve 201A Jack Mountings	956A	Strip-Hole Mounting; Two Required
26-7/16	8-11/16	Drilled for Ten 10-Type Banks	868A	Frame Type- Hole Mounting
29.62	4.46	241A and 242- Type Switches	293A	Plate Mounts Vertically
30-1/2	2-31/32	Drilled for Twenty KS-13364 L3 Sockets	230A	Bent Type-Hole Mounting
30.50	1.25	Six 177-Type Networks; Eleven KS-16493 Mag- netic Counters	383A	Bracket Type- Slot Mounting

MISCELLANEOUS MOUNTING PLATES

Length L (Inches)	Width W (Inches)	Arranged For	Code	Remarks
30.50	3.97	Terminal Strips Twenty KS-13364 Sockets	369A	Bent Type-Hole Mounting
34.625	2.969	Twenty-Two KS-14226 Sockets	358A	Bent Type-Hole Mounting
(b)	2-3/4	Drilled for 20 to 243 Protec- tors	736A	Strip

(b) Lengths available from 11-1/2 inches to 10 feet 1-1/2 inches. The mounting plate consists of a supporting bar for protectors equipped with angle brackets for mounting to a wall.

MISCELLANEOUS MOUNTING PLATES

STEP-BY-STEP MOUNTING PLATES

The Step-by-Step System mounting plates are listed in this section for reference only.

These plates are drilled to mount the apparatus required for the specific application for which each coded mounting plate has been designed.

All Step-by-Step System mounting plates are the responsibility of the Apparatus Applications Department, Mechanical Apparatus Group. An engineer requiring a new mounting plate for use in a Step-by-Step application must contact this department and outline his requirements. The mounting plate is then designed by the Mechanical Apparatus Group.

MISCELLANEOUS MOUNTING PLATES

Code	Length (Inches)	Width (Inches)	No. of Mounting Positions
161A	16-3/4	4-9/16	26
161C	16-3/4	4-9/16	18
161D	16-3/4	4-9/16	30
161E	16-3/4	4-9/16	23
161F	16-3/4	4-9/16	23
161G	16-3/4	4-9/16	26
161H	16-3/4	4-9/16	18
161J	16-3/4	4-9/16	30
161K	16-3/4	4-9/16	26
163C	15-1/2	4-9/16	16
163D	15-1/2	4-9/16	15
171B	16-11/32	4-9/16	17
172B	16-1/8	4-9/16	18
172C	16-1/8	4-9/16	19
173B	15-9/16	4-9/16	21
174B	18-27/32	4-9/16	21
175B	20-1/8	4-9/16	23
223A	21-1/4	4-9/16	26
234A	17-19/32	4-9/16	19
264A	20-1/2	4-11/16	23
352A	11	4.54	21
933D	13-17/32	4-9/16	7
933H	13-17/32	4-9/16	16
933J	13-17/32	4-9/16	18
933K	13-1/2	4-9/16	16
933L	13-17/32	4-9/16	21
933M	13-17/32	4-9/16	23
934B	17-9/16	3	21
934C	17-9/16	3	22
935D	26-7/16	4-9/16	32

MISCELLANEOUS MOUNTING PLATES

Code	Length (Inches)	Width (Inches)	No. of Mounting Positions
935E	26-7/16	4-9/16	33
935G	26-7/16	4-9/16	29
935H	26-7/16	4-9/16	37
935J	26-7/16	4-9/16	31
935K	26-7/16	4-9/16	32
935L	26-7/16	4-9/16	33
948B	10-5/8	4-9/16	15
952B	13-17/32	4-9/16	18
952D	13-17/32	4-9/16	19
952E	13-17/32	4-9/16	20
961A	17-17/32	4-9/16	18
961C	17-17/32	4-9/16	21
961E	17-17/32	4-9/16	10
985D	11-3/32	4-9/16	10
985F	11	4-9/16	10
986E	7-27/32	4-9/16	12
986F	7-27/32	4-9/16	13
986G	7-27/32	4-9/16	12
987G	13-19/32	4-9/16	13
987H	13-19/32	4-9/16	14
987J	13-17/32	4-9/16	12
989A	14-1/4	3	9

**SECTION V
MOUNTING PLATE COVERS**



**SECTION V
MOUNTING PLATE COVERS**



MOUNTING PLATE COVERS

MOUNTING PLATE COVERS

50-TYPE MOUNTING PLATE COVERS

The coded metal covers listed below are provided with two end cover guides and intermediate cover guides as indicated in the table, together with the necessary insulators, bushings, washers, and screws for mounting the cover guides on the mounting plate.

Orders for mounting plates to be equipped with these covers must specify the mounting positions for the cover guides. Unless otherwise specified in the order, the intermediate cover guides will be mounted in the same manner as the right-hand cover guide.

These covers may be used with mounting plates such as the No. 178A, 189A, and similar-type plates.

MOUNTING PLATE COVERS

TABLE A

Code No.	Dimensions (Inches)		Number of Intermediate Cover Guides
	A	B	
50A	8-1/16	7-1/2	-
50B	11-9/16	11	-
50C	15-9/16	15	1
50D	21-9/16	21	2
50E	17-9/16	17	1
50F	21-5/16	20-3/4	2
50G	6-1/16	5-1/2	-
50H	18-15/16	18-3/8	1
50J	13-13/16	13-1/4	1
50K	9-9/16	9	-
50L	13-1/16	12-1/2	-
50M	22-1/16	21-1/2	2
50N	16-11/16	16-1/8	1
50P	4-3/16	3-5/8	-
50R	5-3/16	4-5/8	-
50S	32-1/16	31-1/2	3
50T	33-3/16	32-5/8	3
50U	8-5/8	8-1/16	-

MOUNTING PLATE COVERS

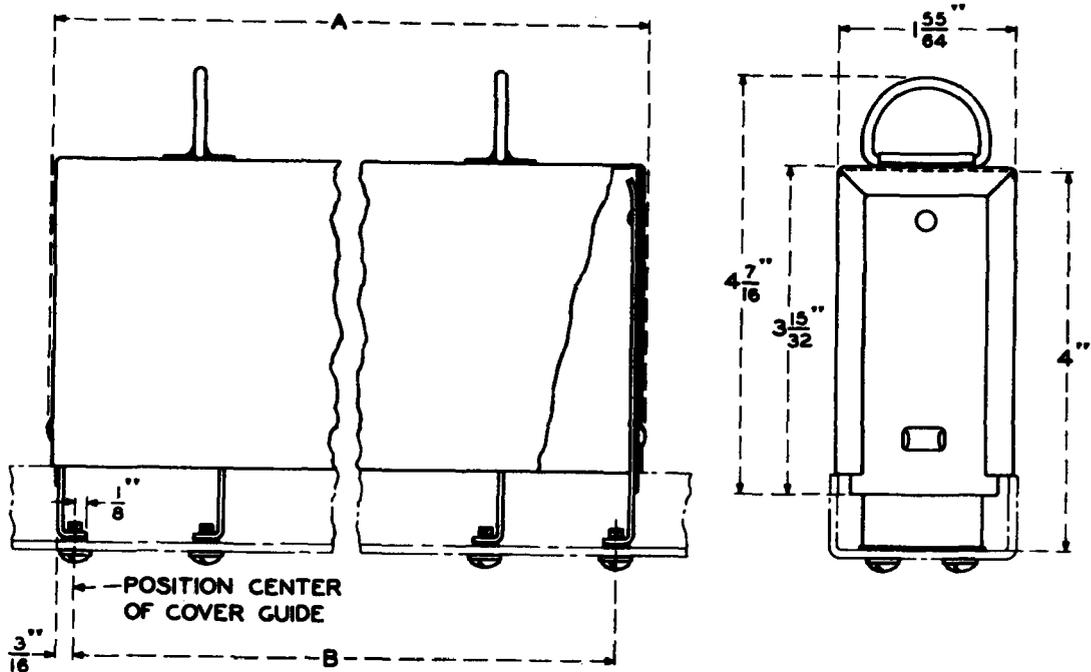


Fig. 1

51A MOUNTING PLATE COVER

The No. 51A metal cover has five windows with two end cover guides and one intermediate cover guide, together with the necessary insulators, bushings, washers, and screws for mounting. The windows in the cover are spaced so that they are directly above positions 21, 47, 78, 104, and 130 of a No. 229A mounting plate when the cover is mounted on this plate.

Orders for mounting plates to be equipped with this cover must specify the mounting positions for the cover guides. Unless otherwise specified in the order, the intermediate cover guide will be mounted in the same manner as the right-hand end cover guide.

MOUNTING PLATE COVERS

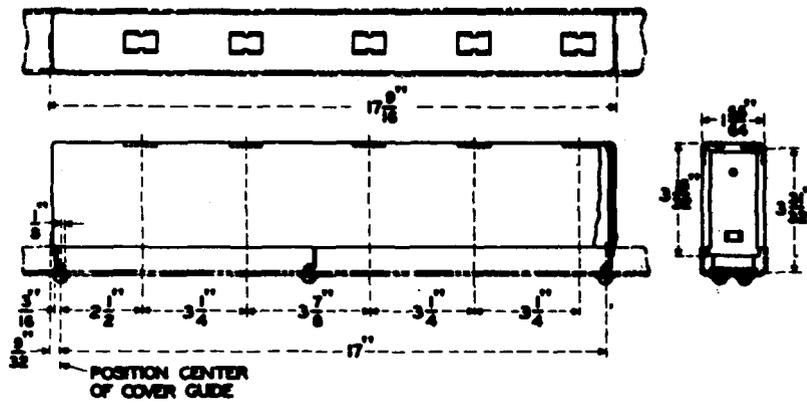


Fig. 2

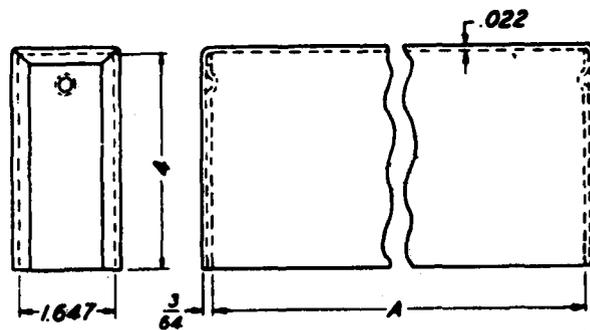


Fig. 3

MOUNTING PLATE COVERS

TABLE B

Length (Inches) A	Code or Part No.
3-13/16	P-478077
5	P-478078
5-3/4	P-478126
7	P-478083
7-1/2	P-478085
7-13/16	P-478086
8	P-478087
8-1/4	P-478089
8-13/16	P-478090
8-15/16	P-478091
9-1/2	P-478093
9-3/4	P-478094
10	P-478095
10-1/2	P-478097
10-13/16	P-478100
10-13/16	P-478150
11	P-478101
11-1/2	P-478103
12	P-478105
12-11/16	P-478151
13-1/2	P-478107
15-1/2	P-478109
15-13/16	P-478111
17-1/16	P-478112
17-1/4	P-478113

MOUNTING PLATE COVERS

TABLE B (Cont)

Length (Inches) A	Code or Part No.
17-7/16	P-478114
17-1/2	P-478115
18-3/4	P-478116
19-3/4	P-478117
19-15/16	P-478128
20-1/16	P-478118
20-1/4	P-478119
21-1/4	P-478120
21-7/16	P-478121
21-3/4	P-478123
24	P-478124
25-1/16	54A (a)
25-9/16	P-478125

(a) Inside height is
5 inches.

MOUNTING PLATE COVERS

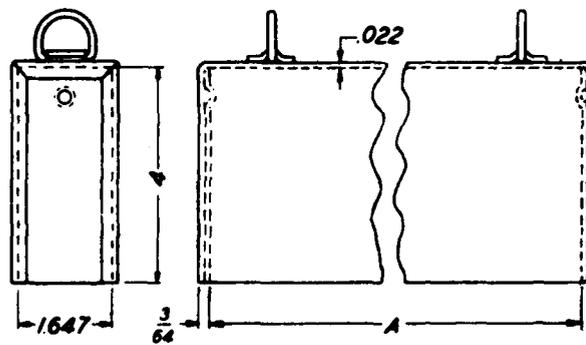


Fig. 4

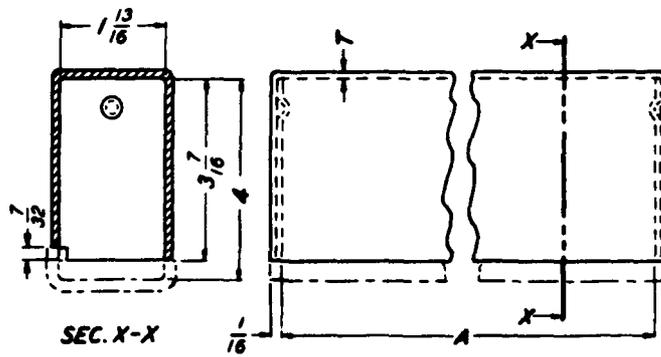
MCOUNTING PLATE COVERS

TABLE C

Length (Inches) A	Code or Part No.
5	53F (d)
5	P-478079 (d)
5-3/8	P-478080 (d)
6	P-478082 (d)
7	P-478084
7-1/2	P-478132
8	P-478088
9	P-478092
10	P-478096
10-1/2	P-478098
10-15/32	56A (b)
10-11/16	P-478099
11	P-478102
11-9/16	53E
11-27/32	P-478104
13	53A
13-1/2	P-478134
13-3/4	P-478133
14-3/4	P-478108
15-1/2	P-478110
14	53D
15-13/16	53C
17-7/16	53B
18-31/32	P-459516
21-7/16	P-478122
26-3/16	58A (c)

- (b) Inside height is 4.384 inches.
- (c) Inside width is 1.844 inches.
- (d) Has one handle centrally located.

MOUNTING PLATE COVERS



T = 0.022 inch unless otherwise specified.

Fig. 5

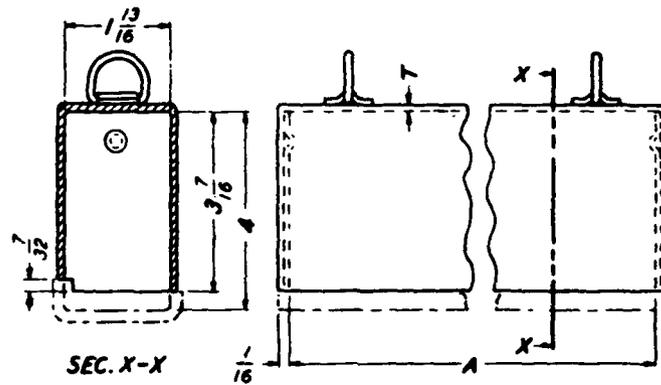
MOUNTING PLATE COVERS

TABLE D

Length (Inches) A	Code or Part No.
5	P-478189
6-3/4	P-478152
7	P-478190
7-1/2	P-478154
8-1/8	P-478155
8-1/4	P-478157
8-13/16	P-478159
11	P-478163
13-7/8	P-478168
14-1/2	P-478169
14-3/4	P-478170
16-7/16	P-478202
16-7/16	55A
17-1/4	P-478172
18-31/32	P-478175
21-7/32	P-478180
23-13/64	P-478201
24-15/32	P-478183 (a)
28-31/32	P-478184 (a)

(a) T = 0.031 inch.

MOUNTING PLATE COVERS



T = 0.022 inch unless otherwise specified.

Fig. 6

MOUNTING PLATE COVERS

TABLE E

Length (Inches) A	Code or Part No.
5	P-478193 (a)
7	P-478194 (a)
7-1/4	P-478153 (a)
7-1/2	P-478196 (a)
8-1/8	P-478156
8-1/2	P-478158
8-13/16	P-478197
9	P-478160
9-11/32	P-478161
10-1/4	P-478195
11	P-478199
11-7/16	P-478164
11-7/16	55B
11-3/4	P-478191
12	P-478186
12-1/2	P-478165
12-3/4	P-478166
13-3/4	P-478167
14-1/4	P-478192
17-13/32	P-478173
18-9/32	P-478174
18-31/32	P-478176
19-5/16	P-478177
19-23/32	P-478178
21-3/32	P-478179
24	P-478182 (b)
28-31/32	P-478185 (b)

(a) Has one handle centrally located.

(b) T = 0.031 inch.

MOUNTING PLATE COVERS

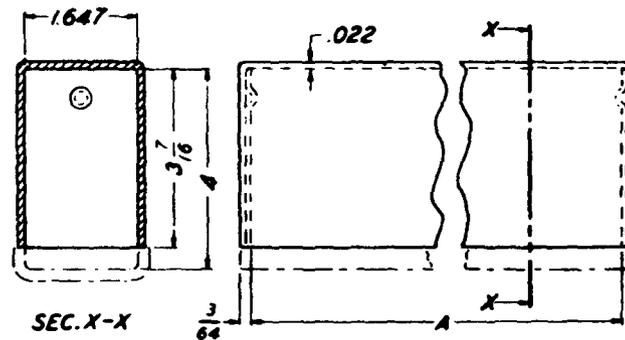


Fig. 7

TABLE F

Length (Inches) A	Code or Part No.
15-13/16	P-458739
16-1/2	P-475489
19-11/16	57A
20-7/16	P-475491





GENERAL

This section contains information for cover guides, the number required for given cover lengths, their related parts for fastening to flat- and channel-style plates; clearances between apparatus mounted on the plate and the framework, and framework mounting screw information, design information on covers equipped with windows, and the method of determining the space available for apparatus for any length of mounting plate (see Fig. 9 and 10).

The information in this section is subject to change without notice and shall be used for general reference purposes only in conjunction with the latest applicable drawings and specifications.

Drill-Per-Order or Drilled-Per-Given Arrangement: These plates are drilled either as specified in the order or for a given arrangement of apparatus. In general, it is more economical from a manufacturing standpoint to drill plates for a given arrangement of apparatus. However, drilling per order may be preferable, inasmuch as the various positions may be drilled for any apparatus which will mount in the available space.

Handles: Handles are required where, due to the proximity of adjacent apparatus, equipment, or cabling, ready access for removal of covers is not available.

Use one handle when required for covers up to and including 7 inches long.

Use two handles, ordinarily located 1-1/2 inches from each end, when required for covers over 7 inches long.

Clearance of Covers: The inside length of a mounting plate cover is normally 1/16 inch greater than the distance between flat-upright portions of end cover guides.

For mounting plate covers, refer to Fig. 1. Dimension B equals 1/4 inch in cases where the apparatus

DESIGN DATA

mounted adjacent to the outside of the cover has exposed current-carrying parts, such as B-, G-, or J-type relays, flat-type resistors, or when the plate is drilled to order. Dimension B equals $5/32$ inch when the plate is drilled per given arrangement and the apparatus adjacent to the outside of the cover is other than that listed above.

DESIGN DATA

Cover Guides at End of Plate: For information concerning clearances for cover guides located at end of mounting plate, refer to Fig. 3 and 5.

Intermediate Cover Guides: Intermediate cover guides need not be evenly spaced. Where two or more guides are unevenly spaced, the closer spacing should be toward the center of the cover. Table A lists the number of intermediate cover guides recommended for all types of covers, and the available space for apparatus under cover.

TABLE A

Length of Cover (Inches) (See Section V) A	Number of Intermediate Cover Guides N	Available Space for Apparatus Under Cover (Inches)
Up to 12	0	A minus 3/4
Over 12 and Up to 18	1	A minus 1-1/8
Over 18 and Up to 28	2	A minus 1-1/2
Over 28	3	A minus 1-7/8

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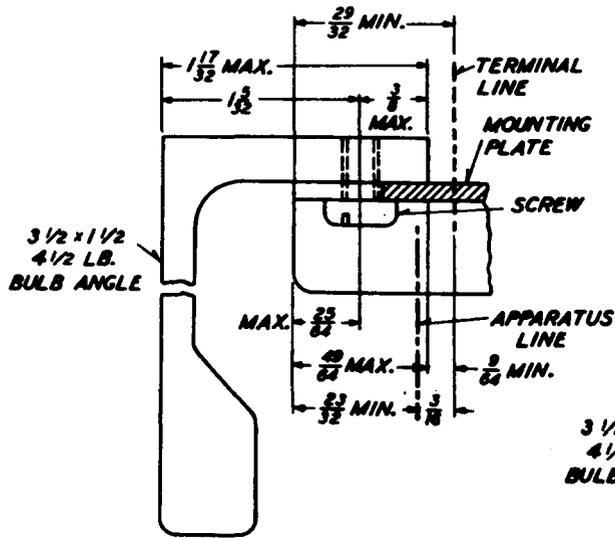


Fig. 2 - Mounting Plate Without Cover

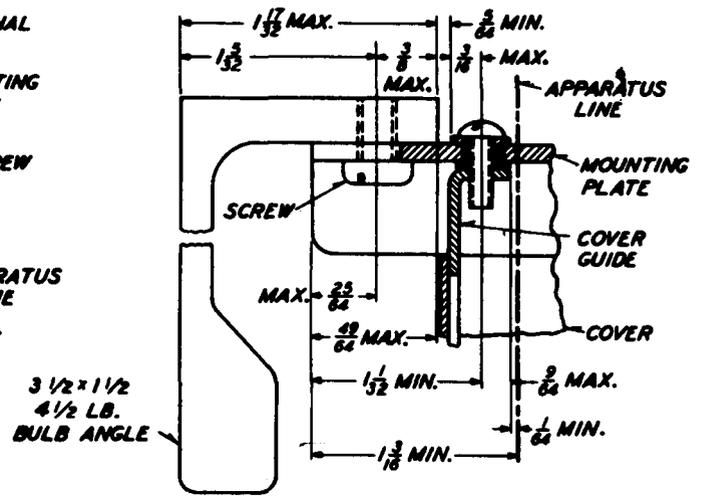


Fig. 3 - Mounting Plate With Cover

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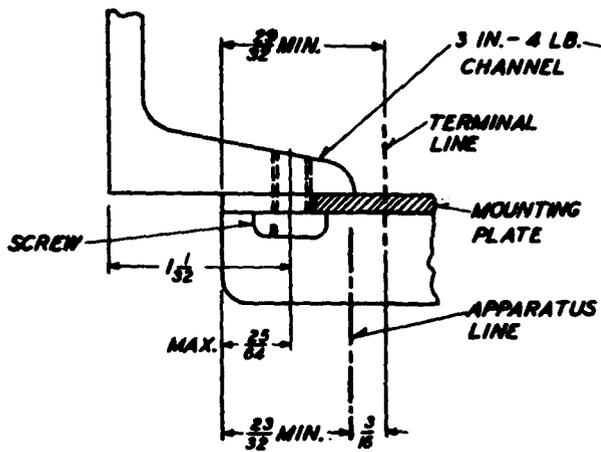


Fig. 4 - Mounting Plate Without Cover

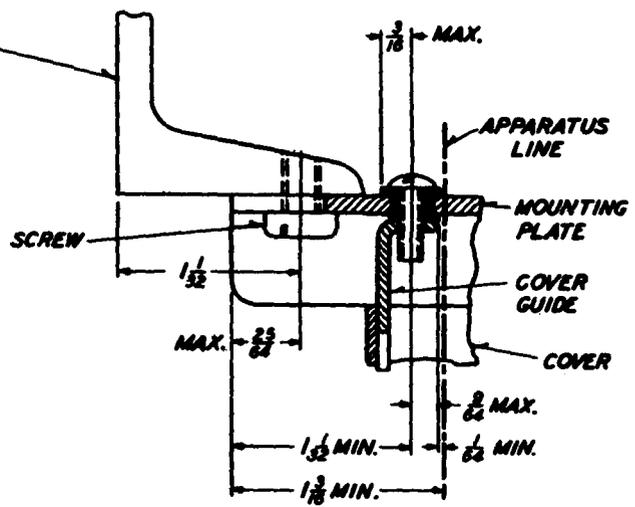


Fig. 5 - Mounting Plate With Cover

MOUNTING SCREWS

Mounting plates do not include screws for fastening them to frames, racks, or mounting units. Screws, if desired, must be ordered separately and of a length to suit local conditions. The following table lists the 0.216 inch -24 special-head machine screws used for this purpose:

<u>Length (Inches)</u>	<u>Piece Part</u>
5/16	P-353501
3/8	P-353446
7/16	P-353500
1/2	P-353447
9/16	P-353502
5/8	P-353448
3/4	P-353449
7/8	P-353503
1	P-353450

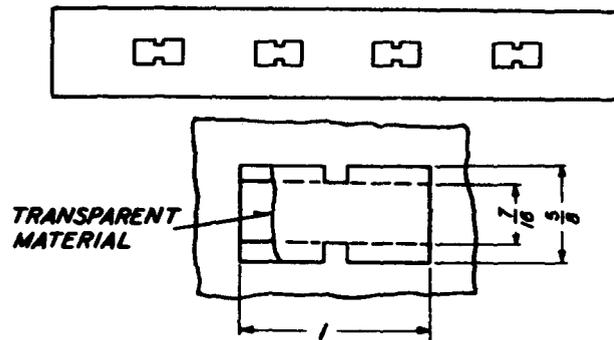
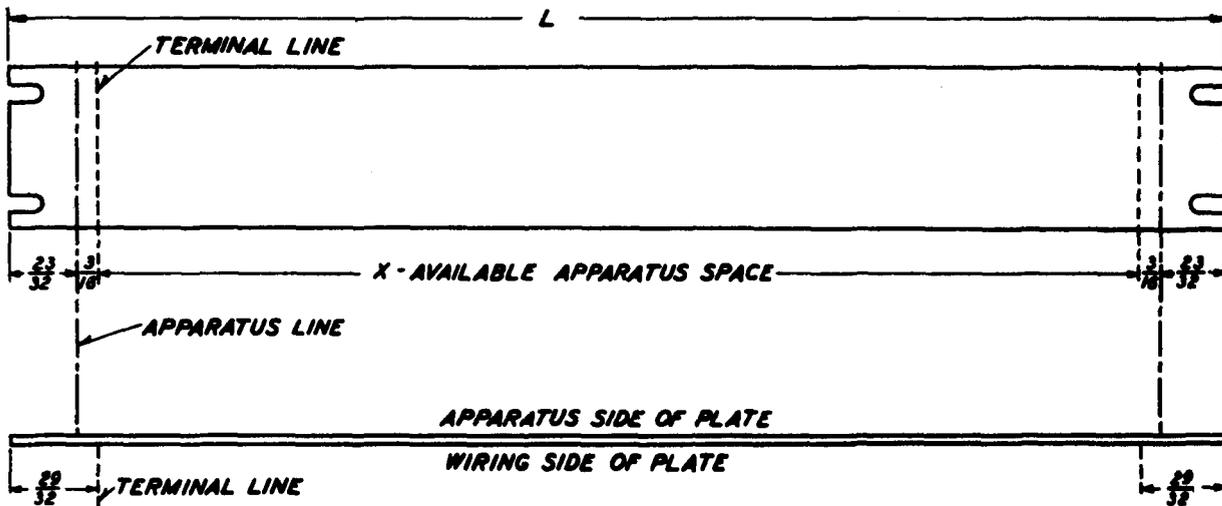


Fig. 6 - Mounting Plate Cover
Equipped With Window

Mounting plate covers equipped with windows permit visual observation of apparatus mounted on a mounting plate with a cover without removing the cover. Openings of the size indicated in Fig. 6 can be provided over the apparatus positions. A strip of transparent

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material, which can be readily replaced, is inserted in these windows as a protection against dust. See the 176C and 179B mounting plates for examples of this type cover.



FORMULAE FOR DETERMINING SPACE
AVAILABLE FOR APPARATUS

PLATES DRILLED PER ORDER

$$X = L - 1\frac{13}{16}$$

PLATES DRILLED PER GIVEN ARRANGEMENT

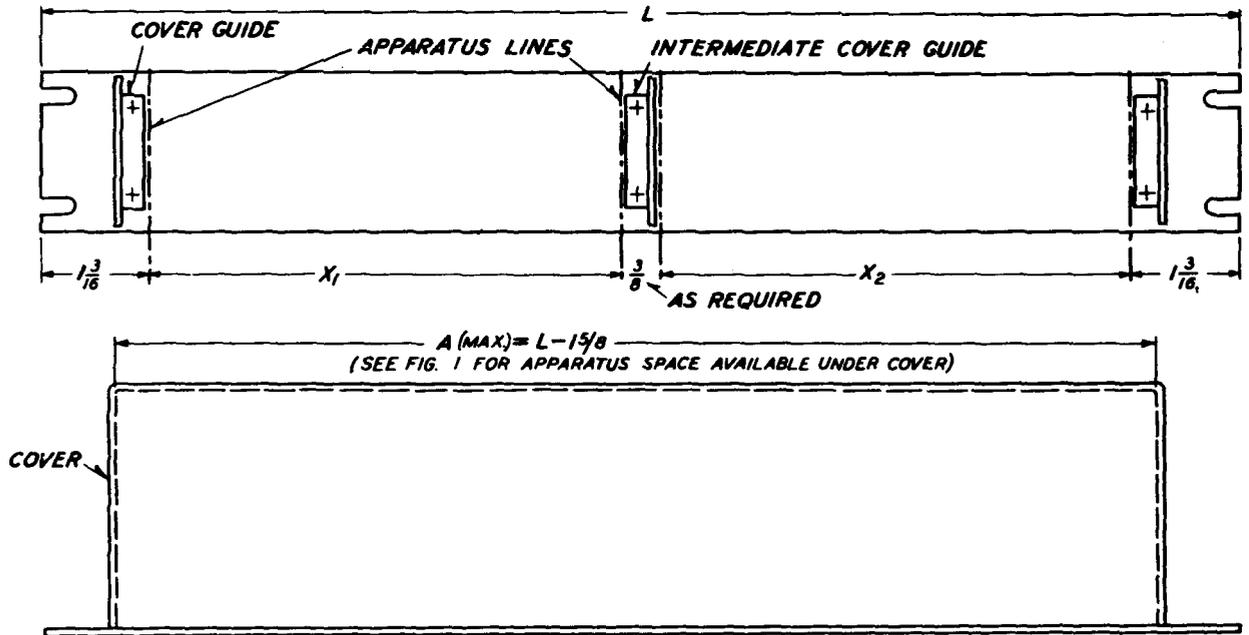
$$X = L - 1\frac{7}{16}$$

Fig. 7 - Available Apparatus Space Plate
Without Cover

TERMINAL AND APPARATUS LINES

On drill-per-order plates, the space available for apparatus is limited to the distance between the terminal lines. On plates drilled per given arrangement, the apparatus may be located up to the apparatus lines providing any parts on the wiring side of the plate are within the terminal lines.

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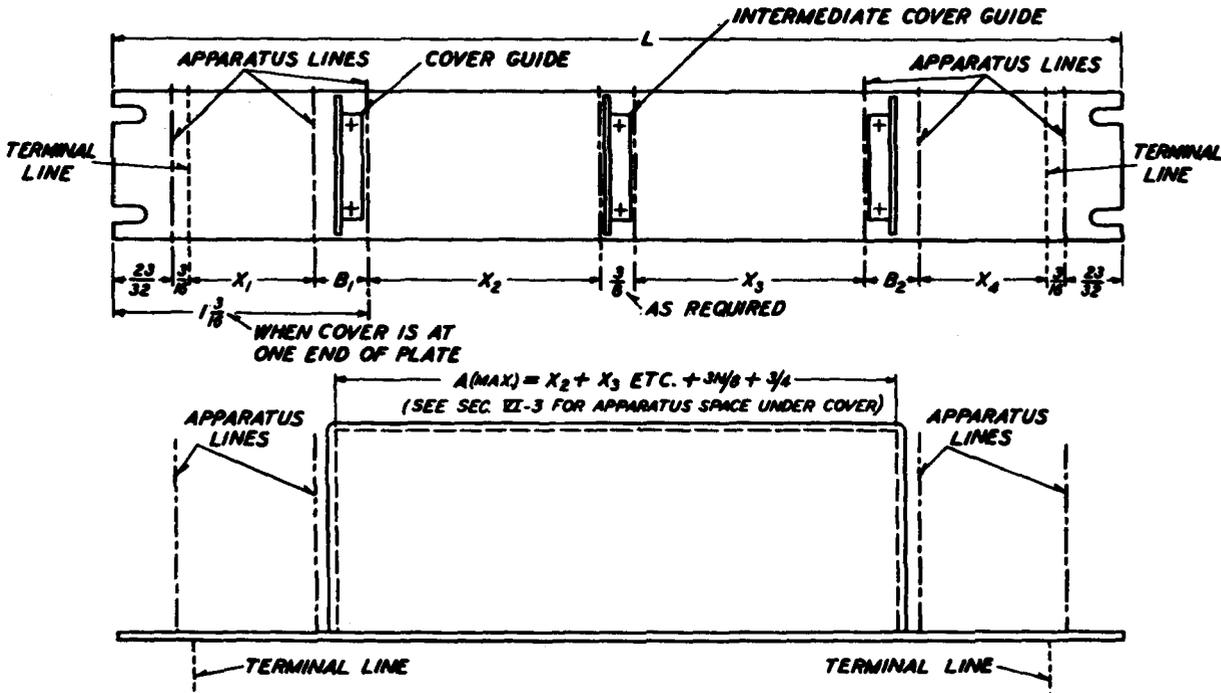
FORMULA FOR DETERMINING SPACE AVAILABLE FOR APPARATUS

$$X = L - (2\frac{3}{8} + \frac{3N}{8})$$

WHERE X = TOTAL AVAILABLE APPARATUS SPACE ($X_1 + X_2$ ETC.)
 N = NUMBER OF INTERMEDIATE COVER GUIDES

Fig. 8 - Available Apparatus Space Plate
 With Full Length Cover

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FORMULAE FOR DETERMINING SPACE AVAILABLE FOR APPARATUS

PLATES DRILLED PER ORDER	PLATES DRILLED PER GIVEN ARRANGEMENT
$X = L - (3\frac{3}{16} + \frac{3}{4})$ OR	$X = L - (1\frac{7}{16} + \frac{3}{4} + B_1 + B_2)$ OR
$X = L - (2\frac{25}{32} + \frac{3}{4})$ WHEN COVER	$X = L - (1\frac{29}{32} + \frac{3}{4} + B_1 + B_2)$ WHEN COVER
IS AT ONE END OF PLATE	IS AT ONE END OF PLATE

WHERE X = TOTAL AVAILABLE APPARATUS SPACE ($X_1 + X_2$ ETC.)
 N = NUMBER OF INTERMEDIATE COVER GUIDES
 B_1 OR $B_2 = 11/16$ OR $19/32$ (SEE SEC. VI-1)

Fig. 9 - Available Apparatus Space Plate With Cover (Not Full Length)

DIMENSION B1 OR B2

For mounting plate covers, dimension B1 or B2 equals 11/16 inch when apparatus mounted in the position adjacent to the outside of the cover has exposed current-carrying parts, such as the B-, G-, or J-type relays, flat-type resistors, or when the plate is drilled per order. Dimension B1 or B2 equals 19/32 inch when the plate is drilled per given arrangement and the apparatus adjacent to the outside of the cover is other than listed above.

GENERAL

Tables B through E list frequently used apparatus which will mount on the 1-23/32 and 1-31/32 inch flat- and channel-type plates. For detailed information regarding the methods of mounting, see the layout of holes of the individual apparatus.

103C Insulator: The 103C insulator should be mounted with the long axis horizontal on 1-23/32 or 1-31/32 inch wide plates.

103D Insulator: The 103D insulator will mount in a position associated with a 224-type terminal strip (see layout of holes, A-526365).

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TABLE B

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted					
Code	Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat		1-23/32 Inch Channel		1-31/32 Inch Channel
				1-23/32 Inch Flat	1-31/32 Inch Flat	737 or 750 Type	176 Type	
114-Type Relay		1-5/8	1-5/8	X	X	0	0	X
*149-Type Relay		1-23/32	1-21/32	X	X	0	0	X
162-Type Relay		1-23/32	1-21/32	X	X	0	0	X
*178-Type Relay		1-23/32	1-21/32	X	X	0	0	X
198-Type Relay		1-5/8	1-5/8	X	X	0	0	X
208-Type Relay		1-3/8	1-9/16	X	X	0	0	X
221-Type Relay		1-3/4 to 2-1/2	1-11/32	X	X	0	0	X
223-Type Relay		1-3/4 to 2-5/8	1-1/2	X	X	0	0	X
235-Type Relay		1-1/4	1-11/16	X	X	0	0	X
266-Type Relay		2-1/8	1-11/16	X	X	0	0	X
267-Type Relay		1-15/16	1-11/16	X	X	0	0	X
271-Type Relay		1-1/4	1-7/16	X	X	0	X	X

* Relay with cover.
 X Apparatus can be mounted.
 0 Apparatus cannot be mounted.

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted						
Code	Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat	1-31/32 Inch Flat	1-23/32 Inch Channel	737 or 750 Type	176 Type	1-31/32 Inch Channel
	280-Type Relay	1-3/4	1-23/32	X	X	0	0		X
	282-Type Relay	1-1/2	1-13/32	X	X	0	X		X
	*B-Type Relay	1-1/4	1-11/16	X	X	0	0		X
	E-Type Relay	3/4 to 1	1-3/8	X	X	X	X		X
	*G-Type Relay	1-1/4	1-11/16	X	X	0	0		X
	*H-Type Relay	1-1/4	1-11/16	X	X	0	0		X
	*J-Type Relay	1-1/4	1-11/16	X	X	0	0		X
	L-Type Relay	1-5/16	1-3/8	X	X	X	X		X
	M-Type Relay	2	1-3/8	X	X	X	X		X
	*N-Type Relay	1-5/8	1-11/16	X	X	0	0		X
	R-Type Relay	1 to 1-1/8	1-3/8	X	X	X	X		X

* Relay with cover.
 X Apparatus can be mounted.
 0 Apparatus cannot be mounted.

DESIGN DATA

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted				
Code Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat		1-23/32 Inch Channel		1-31/32 Inch Channel
			1-23/32 Inch Flat	1-31/32 Inch Flat	737 or 750 Type	176 Type	
*S-Type Relay	1-5/8	1-11/16	X	X	0	0	X
U-Type Relay	1-1/4 to 1-7/8	1-7/16	X	X	X	X	X
Y-Type Relay	1-1/4 to 1-7/8	1-7/16	X	X	X	X	X
AB-Type Relay	3/4	1-5/16	X	X	X	X	X
AF-Type Relay	1-1/2	1-7/8	0	X	0	0	X
AG-Type Relay	1-1/2	1-7/8	0	X	0	0	X
AJ-Type Relay	1-1/2	1-7/8	0	X	0	0	X
#AJ-Type Relay (200 Series)	1-3/4 (a)	1-7/8	0	X	0	0	X
EA-Type Relay	3/4 to 1	1-3/8	X	X	X	X	X

* Relay with cover.

X Apparatus can be mounted.

0 Apparatus cannot be mounted.

Relays equipped with crosstalk shield P-19A146 take 1-3/4 inch horizontal centers.

(a) Where wiring is congested, recommended mounting centers are 2-1/2 inches.

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted				
Code Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat		1-31/32 Inch Flat		1-31/32 Inch Channel
			737	750	176	Type	
UA-Type Relay	1-1/4 to 1-7/8	1-7/16	X	X	X	X	X
UB-Type Relay	1-1/4 to 1-3/4	1-7/16	X	X	X	X	X
E1 Relay Cover	1-1/4	1-11/16	X	X	0	0	X
E2 Relay Cover	1-1/4	1-11/16	X	X	0	0	X
R1 Relay Cover	1-3/8	1-11/16	X	X	0	0	X
R2 Relay Cover	1-3/4	1-11/16	X	X	0	0	X
U3 Relay Cover	1-1/2	1-11/16	#	#	0	0	X
U4 Relay Cover	1-3/4	1-11/16	#	#	0	0	X
U5 Relay Cover	2-1/8	1-11/16	#	#	0	0	X
1A Relay Cover	1-5/8 to 1-3/4	1-23/32	X	X	0	0	X
208 Relay Cover	1-5/8	1-17/32	X	X	0	0	X

Consideration should be given to the effects of vibration.

X Apparatus can be mounted.

0 Apparatus cannot be mounted.

DESIGN DATA

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted					
Code	Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat		1-23/32 Inch Channel		1-31/32 Inch Channel
				1-23/32 Inch Flat	1-31/32 Inch Flat	737 or 750 Type	176 Type	
39A	Lamp Socket	1-1/4	1-11/16	X	X	0	0	X
46A	Lamp Socket	1-1/2	1-7/16	X	X	0	X	X
11	Type Resistance Lamp	1	0.090	X	X	X	X	X
13	Type Resistance Lamp	1	0.090	X	X	X	X	X
18	Type Resistor	7/16	1-11/16	X	X	0	0	X
19	Type Resistor	7/16	1-11/16	X	X	0	0	X
40	Type Resistor	3/4	1-3/8	X	X	X	X	X
44	Type Resistor	1	1-3/8	X	X	X	X	X
59	Type Resistor	7/8	1-13/64	X	X	X	X	X

X Apparatus can be mounted.

0 Apparatus cannot be mounted.

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted					
Code	Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32	1-31/32	1-23/32 Inch Channel		1-31/32
				Inch Flat	Inch Flat	737 or 750 Type	176 Type	Inch Channel
59-Type	Capacitor	3-21/32	1-1/4	X	X	X	X	X
437-Type	Capacitor	1-1/2	1-1/2	X	X	0	X	X
439-Type	Capacitor	7/8	1-1/2	X	X	0	X	X
440-Type	Capacitor	7/8	1-1/2	X	X	0	X	X
441-Type	Capacitor	.576	1-1/2	X	X	0	X	X
442-Type	Capacitor	1/2	1-1/2	X	X	0	X	X
444-Type	Capacitor	7/8	1-13/32	X	X	X	X	X
475-Type	Capacitor	1/2	1-13/32	X	X	X	X	X
476-Type	Capacitor	1/2	1-13/32	X	X	X	X	X
47-Type	Inductor	1-1/32	1	X	X	X	X	X
85-Type	Inductor	1-1/4	1-11/16	X	X	0	0	X
307-Type	Inductor	1-11/16	1-21/32	X	X	0	0	X

X Apparatus can be mounted.
 0 Apparatus cannot be mounted.

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TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted				
Code Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat		1-23/32 Inch Channel		1-31/32 Inch Channel
			1-23/32 Inch Flat	1-31/32 Inch Flat	737 or 750 Type	176 Type	
94-Type Repeating Coil	3-3/16	1-23/32	0	X	0	0	X
103-Type Repeating Coil	1-1/4	1-11/16	X	X	0	0	X
120-Type Repeating Coil	3-3/16	1-23/32	0	X	0	0	X
126-Type Filter	7/8	1-7/16	X	X	X	X	X
213-Type Jack Mounting	1-3/4	1-5/8	X	X	0	0	X
214-Type Jack Mounting	1-3/16	1-1/8	X	X	X	X	X
374-Type Key Mounting	1-1/4	1-11/16	X	X	0	0	X

X Apparatus can be mounted.
 0 Apparatus cannot be mounted.

TABLE B (Cont)

Typical Apparatus			Type of Mounting Plate on Which Apparatus May Be Mounted					
Code Type	Closest Recommended Horizontal Mounting Centers (Inches)	Vertical Dimension of Apparatus (When Mounted on Plate) (Inches)	1-23/32 Inch Flat	1-31/32 Inch Flat	1-23/32 Inch Channel	737 or 750 Type	176 Type	1-31/32 Inch Channel
14-Type Message Register	1-1/2	1-1/4	X	X	X	X		X
13-Type Fuse Block	1/2	1-5/8	X	X	0	0		X
12-Type Fuse Block	2-1/16	3/4	X	X	X	X		X
224-Type Terminal Strip	1-1/2 to 1-3/4	1-19/32	X	X	X	X		X
103A Insulator	1-5/16	1-3/16	X	X	X	X		X
103B Insulator	1-1/2	1-3/8	0	X	0	0		X
103C Insulator	1-3/4	1-1/4	X	X	X	X		X
103D Insulator	5/8	1/2	X	X	X	X		X

X Apparatus can be mounted.
 0 Apparatus cannot be mounted.

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TABLE C

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
6	1-31/32	1	37	X		252A
7.937	1.968	1	95	X		196A
8	1.969	1	49	X		253A
9.68	1.96	1	53	X		292A
9.75	1.968	1	125	X		197A
10	1.968	1	65	X		271A
10.437	1.968	1	69	X		(e) 200A
11.32	6.44	41	49	X		389A
11-1/2	1-31/32	1	77	X		265A
12-3/8	1-31/32	1	84	X		258A
13	5	5	33	X		299A
13	1.968	1	89	X		193A
13.75	1.968	1	95	X		201A
15	1.96	1	105	X		282A
15-1/2	1-31/32	1	109	X		236A

(e) Intended to be mounted vertically.

TABLE C (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
15.68	1.96	1	109	X		294A
15.75	1.96	13	111	X		384A
15.75	3.96	29	111	X		385A
16-1/2	1-31/32	1	117	X		251A
16-1/2	1-31/32	1	32	(f)		910E
16-1/2	1-31/32	1	30	(g)		910T
16.5	1.969	1	117	X		910U
17.5	1.968	1	125	X		194A
17.9	1.96	1	128	X		285A
17.9	3.96	29	128	X		286A
17.9	1.96	1	128	X		360A
17.9	1.96	1	185	X		361A
18	1-31/32	1	129	X		217A
18.9	3.96	29	137	X		368A
19	1-31/32	1	137	X		224A

(f) 7/16-inch centers.

(g) 1/2-inch centers.

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TABLE C (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
19	1.96	1	137	X		229A
19	5.218	3	137	X		263A
19	1-23/32	1	263	X		266A
19	3-15/32	1	263	X		267A
19	5-7/32	1	263	X		268A
19	3.96	29	137	X		270A
19	1-23/32	1	137	X		737T
20	1.96	1	145	X		288A
20	6.96	53	145	X		289A
20	3.96	29	145	X		367A
21-3/8	1-23/32	1	155	X		240B
20-1/2	1-31/32	1	145	X		(h) 150AA
20-1/2	1-31/32	1	149	X		247B
20.5	2.96	2	149	X		357A
21.25	3.75	27	155	X		392A

(h) No. 150AA equipped with a cover is coded No. 150AC.

TABLE C (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
1/8	1/16					
21.375	1.96	13	156	X		393A
21.625	1.969	1	158	X		269A
23	1.96	1	169	X		(j) 189A
23	1.968	1	169	X		192A
23	5.96	45	169	X		228A
23	3.96	29	169	X		(k) 233A
23	2.96	21	169	X		248A
23	1-31/32	1	169	X		250A
23	7.96	61	169	X		281A
23	3.46	1	169	X		283A
23	3.96	29	169	X		295A
23	3.96	29	169	X		356A
23	7.96	61	169	X		(l) 378A
23	5.96	45	169	X		388A

(j) No. 189A with a gray enamel finish is coded
No. 189C.

(k) No. 233A with a gray enamel finish is coded
No. 233B.

(l) No. 378A flanged toward the wiring side is coded
No. 378B.

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TABLE C (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
23	1-23/32	1	169	X		750AA
23	1.969	1	169	X		963L
23	1-31/32	1	337		X	158G
25	1-31/32	1	185	X		180D
25	1.718	1	169	X		191A
25	1.96	1	185	X		290A
25	1.96	13	185	X		290B
25	3.96	29	185	X		(m) 291A
25	5.96	45	185	X		(n) 350A
25	7.96	61	185	X		353A
25	6.96	53	185	X		373A
25	1.96	13	185	X		390A
26	1-31/32	1	193	X		246A
28	3.75	2	215	X		365A
29	1-31/32	1	217	X		255A

(m) No. 291A with gray enamel finish is coded No. 291F.
 (n) No. 350A with gray enamel finish is coded No. 350B.

TABLE C (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Channel) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
30-1/2	1-31/32	1	225	X		152CE
30-1/2	1-31/32	1	225	X		152CF
30-1/2	1-31/32	1	229	X		178A
30-1/2	1-31/32	1	225	X		222A
30.5	3.96	29	229	X		280A
30.5	1.96	13	229	X		374A
30.5	3.96	29	229	X		375A
30.5	5.96	45	229	X		376A
30.5	7.96	61	229	X		377A
30.5	1.96	13	229	X		386A
30.5	3.96	29	229	X		387A
30.5	1-31/32	1	225	X		152BT
34-5/8	1-31/32	1	262	X		231A
34.62	1.96	1	262	X		366A
35-13/16	1-31/32	1	271	X		256B

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TABLE D

Length L (Inches)	Width W (Inches)	Position Centers				(Flat) Code Number
		Rows	Number of Positions	Centers		
1/8	1/16					
7-3/4	1-23/32	1	47	X		902C
8-3/4	3-15/32	3	109		X	235A
8-3/4	1-23/32	1	109		X	661D
10-5/16	2-23/32	1	16	(a)		198A
10-1/2	1-23/32	1	18	(a)		199A
11-1/2	1-23/32	1	77	X		752J
13	1-23/32	1	177		X	877T
14	31/32	1	97	X		275A
15-1/8	1-23/32	1	211		X	861B
17-1/2	1-23/32	1	125	X		276A
19	3-15/32	3	273		X	(b) 884AN
19	1-23/32	1	273	X		(c) 600ED
20-1/2	1-23/32	1	149	X		226B
21	31/32	1	153	X		274A

(a) 1/2 inch centers; intended to be mounted vertically.

(b) No. 884AN with a gray enamel finish is coded No. 884AP.

(c) No. 600ED with a gray enamel finish is coded No. 660EE.

TABLE D (Cont)

Length L (Inches)	Width W (Inches)	Position Centers				(Flat) Code Number
		Rows	Number of Positions	Centers		
				1/8	1/16	
21-5/8	1-23/32	1	315		X	606CF
23	1-23/32	1	337		X	609DL
23	3-15/32	3	337		X	663AA
23	5-7/32	3	169	X		852D
24	31/32	1	177	X		273A
25	1-23/32	1	185	X		617T
26	1-23/32	1	385		X	627J
27	1-23/32	1	401		X	(d) 667AF
28	1-27/32	1	209	X		959K
30-1/2	1-23/32	1	229	X		227B

(d) No. 667AF equipped with a cover is coded
No. 667AG.

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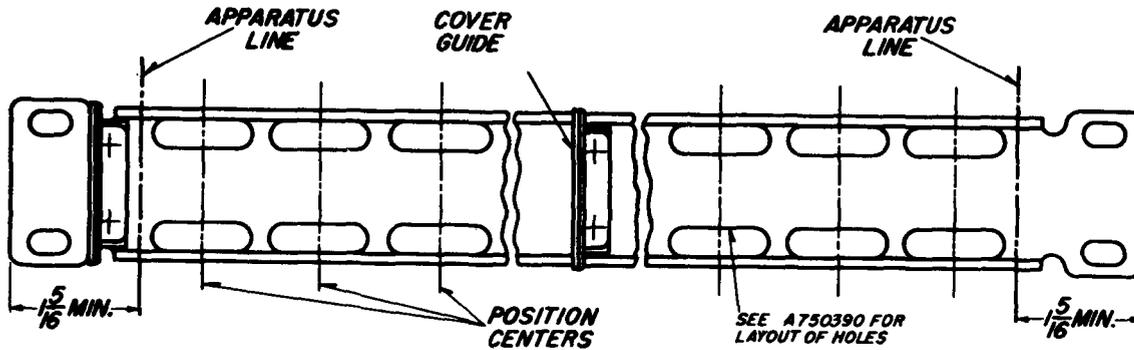


Fig. 10 - Mounting Plates for Typical Relays

TABLE E

Type of Mounting Plate	Closest Recommended Mounting Centers of Relays (See Table B) (Inches)	Number of Positions		Number of Intermediate Cover Guides Required for Cover
		No Cover	Common Cover	
737 (1-23/32 Inch Channel 19 Inches long)	1-1/4	12	11	1
	1-1/2	10	10	1
	1-3/4	8	8	1
	1-7/8	8	8	1
750 (1-23/32 Inch Channel)	1-1/4	15	14	2
	1-1/2	12	12	2
	1-3/4	11	10	2
	1-7/8	10	10	2

End Construction: The 1-1/4 inch minimum dimension must be maintained to prevent structural weakness of the plate.

Mounting U- and Y-Type Relays on 1-23/32 Inch, 737-, and 750-Type Plates: The maximum number of positions

listed in the table above are based on the addition of 1/8 inch to the closest recommended mounting centers of the relays of the same size on a given plate. Where an intermediate cover guide is located between positions, the addition of the 1/8 inch is not required, since the space necessary for the cover guide will provide sufficient material between positions. Where different sizes of relays are located on the same mounting plate, the number will be changed accordingly.

For additional information on cover guides, see Table A.

