

ENGINEERING REFERENCE DATA

**JACKS**  
**JACK MOUNTINGS**  
**AND PLUGS**

( PRINTED IN U.S.A. )

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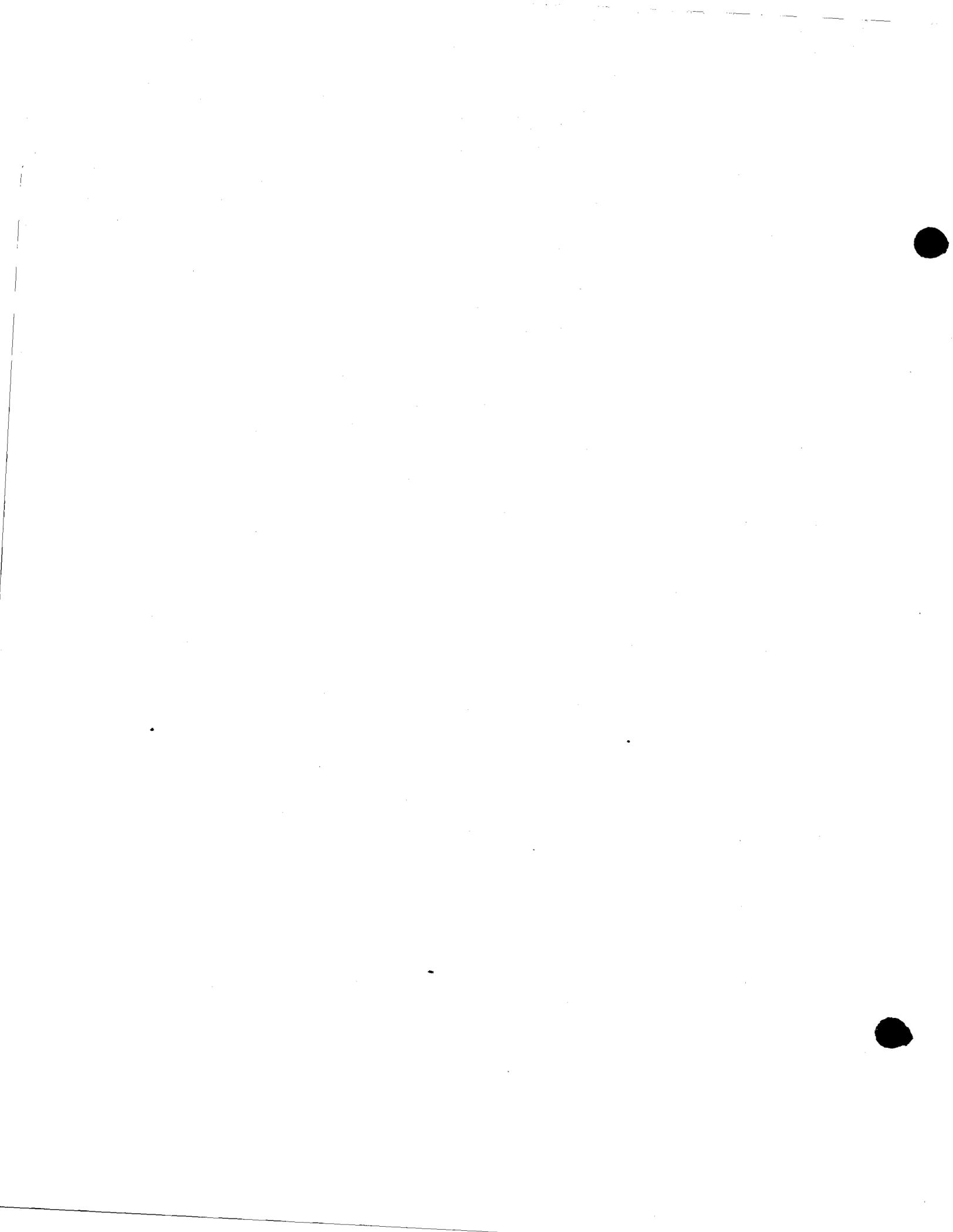
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(P)189C	VI	8	(P)231A	VII	4
(P)190A	VI	2	(P)231B	VII	4
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(P)199D	VIII	2	(P)241A	VI	4
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235	XII	16	(P)274A	XII	18
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(P)240B	XII	5	(P)283B	XII	10
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## INTRODUCTION

### GENERAL

This Engineering Reference Data Bulletin contains information on Jacks, Jack Mountings and Plugs 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 Laboratories, and contains information on apparatus of all ratings and classifications except that rated Manufacture Discontinued. Apparatus codes rated A T & T Co. Standard, A & M Only, Component Part, Non-Associate, and codes classified ML are included.

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 The NON-PREFERRED items include (a) the older designs which may have been superseded but are still required for Maintenance purposes; (b) designs more expensive to manufacture than others which may perform the same functions; and (c) items in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

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 Standards Engineer, Department 5241, Bell Telephone Laboratories, Incorporated, 463 West Street, New York 14, N.Y., 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 Laboratories, the selection should first be discussed with the department responsible for the design of the apparatus.

### JACKS

The jacks listed in Sections I and II are classified according to the plugs with which they can be used. The jacks for use with a particular plug are further grouped according to the number of contact springs. Therefore, when the plug to be used

## JACKS (Contd.)

is known, the jacks in the appropriate group should then be studied with reference to the other characteristics listed. The plugs listed for use with the various jacks are intended to be typical examples.

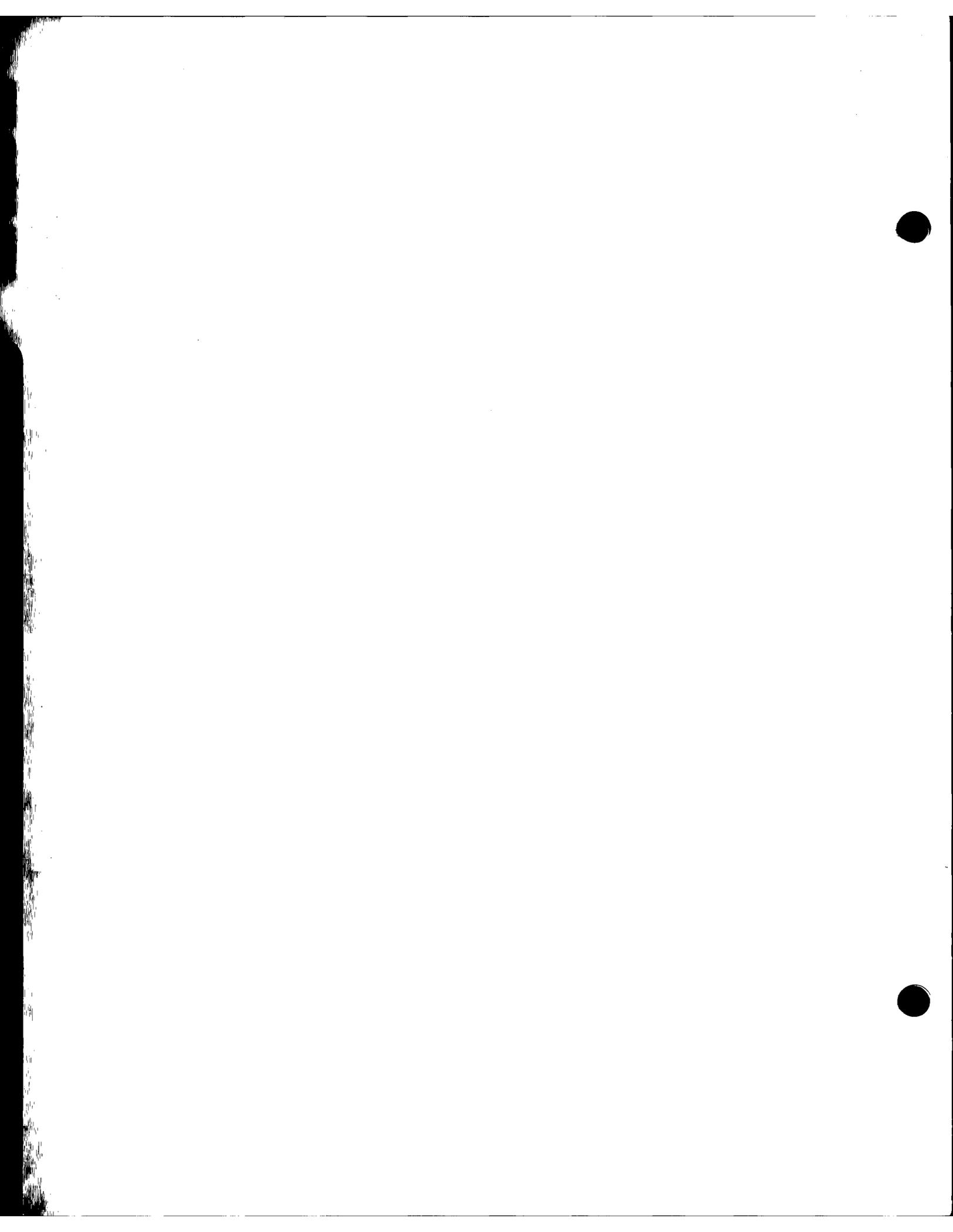
In cases where the desired spring combination is known, the pages at the end of Sections I and II should first be consulted, and any codes using these combinations can be found from the index.

It is expected that, in the singly and strip mounted jacks in Sections I and II, bimetal bar-type contacts of No. 2 contact metal will shortly replace present No. 1 and No. 2 contact metal disc and point-type contacts. Therefore, it has not been noted in the list which of these are now used for the various jacks.

Items designated as connectors have been listed in the general category of jacks in cases where it appeared that they should be included. For other connectors manufactured by outside suppliers, see sections on plugs.

For singly mounted jacks grouped to mounting centers, see pages I-11 and I-12.





# SECTION I

## SINGLY MOUNTED JACKS

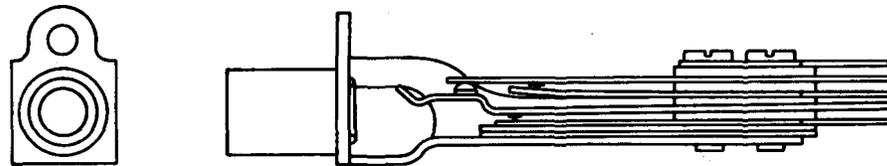
### General

The jacks listed in this section are singly mounted, heavily insulated jacks. They have welded frames except where otherwise noted.

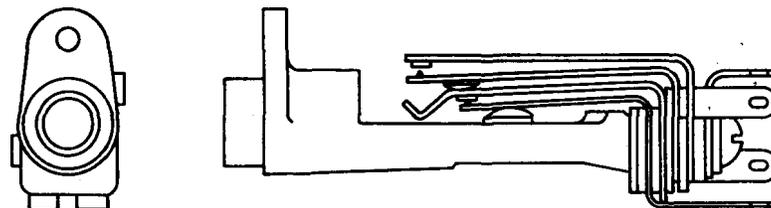
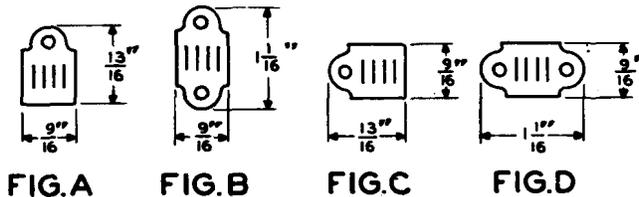
The spring combinations referred to in the tables are shown at the end of this section. On these figures, the numbers shown for the terminals are assigned for use with wiring diagram drawings. These numbers are assigned as follows:

When the jack is viewed from the wiring side in a normal position as defined on each figure, the terminals of each pileup are numbered from bottom to top or from left to right. The terminals shall always retain the same number as assigned for the normal position, regardless of the position in which the jack may be mounted.

The welded frame jacks are intended to be mounted with the springs in a vertical plane as indicated in the Figures A, B, C, and D shown below. The letters A, B, C, and D shown in the column under mounting arrangements refer to these figures.



Typical Welded Frame Jack per Fig. C  
(Viewed from bottom)



Typical Cast Frame Jack

SINGLY MOUNTED JACKS

JACKS ARRANGED FOR USE WITH 309- TYPE PLUGS					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
TWO SPRINGS					
(P)246A	3-5/16	5/8	(a)	14	A
246E	3-5/16	5/8	(a)	14	A
The 246E is the same as the 246A except that it has a nickel-silver sleeve.					
FOUR SPRINGS					
(P)248A	3-5/16	5/8	(a)	61	A
248D	3-5/16	1-1/8	5/8	61	D
248E	3-5/16	5/8	(a)	61	A
The 248E is the same as the 248A except that it has a nickel-silver sleeve.					
(P)249A	3-5/16	5/8	(a)	63	A
(P)445A	3-5/16	3/4	(a)	60	A
FIVE SPRINGS					
(P)483C	3-5/16	7/8	5/8	90	C
SIX SPRINGS					
(P)323C	3-5/16	7/8	5/8	127	C

Notes:

(a) 7/8 inch when mounted with lugs in same direction;  
5/8 inch when mounted with lugs in opposite direction.

(P) Preferred codes.

SINGLY MOUNTED JACKS

JACKS ARRANGED FOR USE WITH 310- TYPE PLUGS					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
TWO SPRINGS					
(P)238A	3-23/64	5/8	(a)	14	A
238B	3-23/64	5/8	1-1/8	14	B
238E	3-23/64	5/8	1-1/8	14	B
The 238E is the same as the 238B except that it has a nickel-silver sleeve.					
THREE SPRINGS					
300A	3-23/64	5/8	(a)	34	A
FOUR SPRINGS					
122	3-11/32	-	-	69	-
(P)239A	3-23/64	5/8	(a)	61	A
239B	3-23/64	5/8	1-1/8	61	B
(P)239C	3-23/64	7/8	5/8	61	C
239E	3-23/64	5/8	(a)	61	A
The 239E is the same as the 239A except that it has a nickel-silver sleeve.					
(P)241A	3-23/64	3/4	(a)	62	A
241B	3-23/64	3/4	1-1/8	62	B
(P)241C	3-23/64	7/8	5/8	62	C
(P)482A	3-3/8	5/8	1-3/4	67	-
The 482A is a twin jack, for use with two 310-type plugs or one 338-type plug.					

Notes:

(a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.

(P) Preferred codes.

**SINGLY MOUNTED JACKS**

JACKS ARRANGED FOR USE WITH 310-TYPE PLUGS (CONT'D)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
<b>FIVE SPRINGS</b>					
(P) 326A	3-23/64	13/16	(a)	84	A
(P) 326C	3-23/64	7/8	5/8	84	C
326D	3-23/64	1-1/8	5/8	84	D
(P) 360A	3-23/64	23/32	(a)	85	A
360C	3-23/64	7/8	5/8	85	C
(P) 363A	3-23/64	23/32	(a)	87	A
(P) 363C	3-23/64	7/8	5/8	87	C
(P) 387A	3-23/64	13/16	(a)	88	A
387B	3-23/64	13/16	1-1/8	88	B
(P) 387C	3-23/64	7/8	5/8	88	C
387D	3-23/64	1-1/8	5/8	88	D
<b>SIX SPRINGS</b>					
(P) 240A	3-23/64	3/4	(a)	121	A
240B	3-23/64	3/4	1-1/8	121	B
(P) 240C	3-23/64	7/8	5/8	121	C
(P) 242A	3-23/64	3/4	(a)	122	A
242B	3-23/64	3/4	1-1/8	122	B
(P) 242C	3-23/64	7/8	5/8	122	C
(P) 242CK (b)	3-23/64	7/8	5/8	122	C
(P) 243A	3-23/64	3/4	(a)	123	A
243B	3-23/64	3/4	1-1/8	123	B
(P) 243C	3-23/64	7/8	5/8	123	C
(P) 267A	3-23/64	5/8	(a)	135	A
267C	3-23/64	7/8	5/8	135	C
(P) 285A	3-23/64	13/16	(a)	124	A
285B	3-23/64	13/16	1-1/8	124	B
(P) 285C	3-23/64	7/8	5/8	124	C
293A	3-23/64	7/8	(a)	125	A
293B	3-23/64	7/8	1-1/8	125	B
(P) 324C	3-23/64	7/8	5/8	127	C
(P) 456D	3-23/64	1-1/8	5/8	133	D

**Notes:**

(a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.

(b) Equipped with No. 2 metal contacts.

(P) Preferred Codes

JACKS ARRANGED FOR USE WITH 310-TYPE PLUGS (CONTD)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
SEVEN SPRINGS					
(P)280A	3-23/64	7/8	(a)	141	A
280B	3-23/64	7/8	1-1/8	141	B
(P)280C	3-23/64	7/8	5/8	141	C
(P)446B	3-3/8	1	1-1/8	143	B
(P)446C	3-3/8	1	(c)	143	C
(P)449C	3-23/64	7/8	5/8	144	C
(P)458A	3-23/64	1	(a)	145	A
(P)458C	3-23/64	1	(c)	145	C
EIGHT SPRINGS					
(P)244A	3-23/64	7/8	(a)	161	A
(P)245A	3-23/64	29/32	(a)	162	A
245B	3-23/64	29/32	1-1/8	162	B
(P)245C	3-23/64	29/32	5/8	162	C
(P)289A	3-23/64	15/16	(a)	163	A
289B	3-23/64	15/16	1-1/8	163	B
(P)289C	3-23/64	15/16	(c)	163	C
(P)290B	3-23/64	15/16	1-1/8	164	B
(P)291B	3-23/64	1	1-1/8	165	B
(P)372B	3-23/64	15/16	1-1/8	166	B
(P)454B	3-23/64	1	1-1/8	167	B
(P)454C	3-23/64	1	(c)	167	C
NINE SPRINGS					
(P)284A	3-23/64	1	(a)	181	A
284B	3-23/64	1	1-1/8	181	B
(P)284C	3-23/64	1	(c)	181	C
(P)469B	3-23/64	1	1-1/8	182	B

Notes:

- (a) 7/8 inch when mounted with lugs in same direction;  
5/8 inch when mounted with lugs in opposite direction.
- (c) Intended to mount with springs horizontal in Jack Mounting only.
- (P) Preferred codes.

SINGLY MOUNTED JACKS

JACKS ARRANGED FOR USE WITH 347-TYPE PLUGS					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
ONE SPRING					
99(f)	3-13/32	5/8	15/16	2	-
Arranged to mount on Nos. 30, 78 and 80 jack mountings or singly mounted.					
(P)221E	3-15/32	5/8	(a)	1	A
The 221E jack has a nickel-silver sleeve.					
(P)223A	3-13/32	5/8	(a)	1	A
(b)					
(P)364(f)	3-1/32	5/8	1	2	-
The 364 jack is arranged to mount on Nos. 198-,199-,200-, or similar type jack mountings.					
TWO SPRINGS					
200(n)	4-1/2	15/16	1	12	-
(P)218A(c)	3-15/32	5/8	(a)	11	A
(P)218C(c)	3-15/32	7/8	5/8	11	C
(P)218E(c)	3-15/32	5/8	(a)	11	A
218J(c)	3-15/32	5/8	(a)	11	A
The 218J is the same as the 218A except that it has a nickel-silver sleeve. The 218E is the same as the 218A except that it is equipped with No. 2 metal contacts.					

Notes:

- (a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.
- (b) Tip spring terminal accomodates two No. 16 B&S gauge wires.
- (c) Tip spring terminal and spring terminal which makes contact with it accomodates two No. 16 B&S gauge wires.
- (f) Cast frame.
- (n) Cast frame, mounted by means of nut.
- (P) Preferred codes.

JACKS ARRANGED FOR USE WITH 347-TYPE PLUGS (CONTD)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
TWO SPRINGS (CONTD)					
(P)232A	3-15/32	5/8	(a)	15	A
(P)232C	3-15/32	7/8	5/8	15	C
232E	3-15/32	5/8	(a)	15	A
(P)233A	3-15/32	5/8	(a)	13	A
233B	3-15/32	5/8	1-1/8	13	B
(P)233C	3-15/32	7/8	5/8	13	C
233D	3-15/32	1-1/8	5/8	13	D
(P)410A	3-31/64	5/8	1-3/4	16	-
410B	3-31/64	5/8	1-3/4	16	-
(P)410C(g)	3-31/64	5/8	1-3/4	17	-
410D(g)	3-31/64	5/8	1-3/4	16	-
The 410-type is a twin jack for use with two 347-type plugs, or one 350A or 312-type plug.					
THREE SPRINGS					
208(n)	4-3/8	15/16	1-1/8	31	-
(P)215A(b)	3-15/32	5/8	(a)	32	A
(P)215C(b)	3-15/32	7/8	5/8	32	C
(P)237A	3-15/32	5/8	(a)	33	A
(P)237C	3-15/32	7/8	5/8	33	C
(P)303A	3-15/32	5/8	(a)	35	A
460A(f)	2-7/8	5/8	1	37	-
The 460A jack is arranged to mount on Nos. 198-,199-, or 200-type jack mountings.					

**Notes:**

- (a) 7/8 inch when mounted with lugs in same direction;  
5/8 inch when mounted with lugs in opposite direction.
- (b) Tip spring terminal accomodates two No. 16 B&S gauge wires.
- (f) Cast frame.
- (g) Tip springs have gold-plated surface for contacting plug.
- (n) Cast frame, mounted by means of nut.
- (P) Preferred Codes.

SINGLY MOUNTED JACKS

JACKS ARRANGED FOR USE WITH 347-TYPE PLUGS (CONT'D)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
FOUR SPRINGS					
202(n)	4-3/8	15/16	1-1/8	53	-
203(n)	4-3/8	15/16	1-1/4	54	-
(P)216A(c)	3-15/32	5/8	(a)	51	A
(P)216C(c)	3-15/32	7/8	5/8	51	C
(P)216F (c,g)	3-15/32	5/8	(a)	51	A
(P)217A(c)	3-15/32	5/8	(a)	55	A
(P)217C(c)	3-15/32	7/8	5/8	55	C
217E(c)	3-15/32	5/8	(a)	55	A
The 217E is the same as the 217A except that it has a nickel-silver sleeve.					
(P)225A(d)	3-15/32	5/8	(a)	56	A
(P)225C(d)	3-15/32	7/8	5/8	56	C
225CE(d)	3-15/32	7/8	5/8	56	C
The 225CE is the same as the 225C except that it has a nickel-silver sleeve.					
(P)226A(b)	3-15/32	5/8	(a)	57	A
(P)226C(b)	3-15/32	7/8	5/8	57	C

Notes:

- (a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.
- (b) Tip spring terminal accomodates two No. 16 B&S gauge wires.
- (c) Tip spring terminal and spring terminal which makes contact with it accomodate two No. 16 B&S gauge wires.
- (d) All spring terminals accomodate two No. 16 B&S gauge wires.
- (g) Tip springs have gold-plated surface for contacting plug.
- (n) Cast frame, mounted by means of nut.
- (P) Preferred Codes.

JACKS ARRANGED FOR USE WITH 347-TYPE PLUGS (CONT'D)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
FOUR SPRINGS (CONT'D)					
234A	3-15/32	5/8	(a)	59	A
234C	3-15/32	7/8	5/8	59	C
Normally closed contacts of the 234 jacks are not designed for use in talking circuits.					
(P)297A	3-15/32	5/8	(a)	64	A
(P)297C	3-15/32	5/8	(a,g)	64	C
396(f)	2-7/8	5/8	1	68	-
The 396 jack is arranged to mount on Nos. 198-,199-,200-, or similar type mountings.					
(P)484C	3-15/32	7/8	5/8	52	C
FIVE SPRINGS					
224(n)	4-1/2	15/16	1-15/32	81	-
(P)227A (e)	3-23/64	5/8	(a)	93	A
(P)236A	3-15/32	23/32	(a)	82	A
(P)236C	3-15/32	7/8	5/8	82	C
(P)361C	3-15/32	7/8	5/8	86	C
(P)440A	3-15/32	5/8	1-3/4	92	-
The 440A jack is a twin jack for use with two 347-type plugs or one 305-type plug.					
(P)462A	3-15/32	7/8	(a)	89	A
(P)485C	3-15/32	7/8	5/8	91	C

**Notes:**

- (a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.
- (e) Tip and ring spring terminals accommodate two No. 16  
gauge wires.
- (f) Cast frame.
- (g) Intended to mount in jack mounting.
- (n) Cast frame, mounted by means of nut.
- (P) Preferred Codes.

SINGLY MOUNTED PLUGS

JACKS ARRANGED FOR USE WITH 347-TYPE PLUGS (CONT'D)					
Code No.	Length	Mtg Hor	Mtg Vert	Spg Comb Fig. No.	Mtg Arr
SIX SPRINGS					
(P)309C	3-15/32	7/8	5/8	126	C
(P)309E	3-15/32	7/8	5/8	126	C
The 309E is the same as the 309C except that the crimp of the tip spring is gold-plated.					
(P)327C	3-15/32	7/8	5/8	128	C
327D	3-15/32	1-1/8	5/8	128	D
394C	3-31/64	7/8	5/8	129	C
(P)411C	3-31/64	7/8	5/8	130	C
(P)438C	3-15/32	7/8	5/8	131	C
440B	3-15/32	7/8	1-3/4	134	-
The 440B jack is a twin jack for use with two 347-type plugs or one 305-type plug.					
443C	3-15/32	7/8	5/8	94	C
SEVEN SPRINGS					
(P)355C	3-15/32	7/8	5/8	142	C
(P)476A	3-15/32	29/32	(a)	146	A

Notes:

(a) 7/8 inch when mounted with lugs in the same direction;  
5/8 inch when mounted with lugs in opposite direction.

(P) Preferred cpdes

## MOUNTING CENTERS IN SINGLY MOUNTED JACKS IN JACK MOUNTINGS

In cases where singly mounted jacks are specified as used in a jack mounting, any other singly mounted jack may be used, which has the same mounting arrangement (that is-A, B, C, or D) and the same or closer mounting centers as shown in the table.

Mtg Hor	Arrangement A Vert Centers (a)	Arrangement B Vert Centers 1-1/8	Arrangement C Vert Centers 5/8	Arrangement D Vert Centers 5/8
5/8	215A; 216A, F; 217A, E; 218A, E, J; 221E; 223A; 225A; 226A; 227A; 232A, E; 233A; 234A; 237A; 238A; 239A, E; 246A, E; 248A, E; 249A; 267A; 297A; 300A; 303A	233B; 238B, E; 239B		
23/32	236A; 360A; 363A			
3/4	240A; 241A; 242A; 243A; 445A	240B; 241B; 242B; 243B		
13/16	285A; 326A; 387A	285B; 387B		
7/8	244A; 293A; 280A; 462A	280B; 293B	215C; 216C; 217C; 218C; 225C, CE; 226C; 232C; 233C; 234C; 236C; 237C; 239C; 240C; 241C; 242C, CK; 243C; 267C; 280C; 285C; 309C, E; 323C; 324C; 326C; 327C; 355C; 360C; 361C; 363C; 387C; 394C; 411C; 438C; 443C; 449C; 483C; 484C; 485C	
29/32	245A; 476A	245B	245C	

Note:

- (a) 7/8 inch when mounted with lugs in same direction;  
5/8 inch when mounted with lugs in opposite direction.

SINGLY MOUNTED JACKS

MOUNTING CENTERS IN SINGLY MOUNTED JACKS IN JACK MOUNTINGS (CONTD)				
Mtg Hor	Arrangement A Vert Centers (a)	Arrangement B Vert Centers 1-1/8	Arrangement C Vert Centers 5/8	Arrangement D Vert Centers 5/8
15/16	289A	289B; 290B; 372B		
1	284A; 458A	284B; 291B; 446B; 454B; 469B		
1-1/8				233D; 248D; 326D; 327D; 387D; 456D

MOUNTING CENTERS FOR CAST FRAME JACKS		
Mtg Hor	Mtg Vert	Codes
5/8	15/16	99
5/8	1	364, 396, 460
15/16	1	200
15/16	1-1/8	202, 208
15/16	1-1/4	203
15/16	1-15/32	224

Do not mount in jack mountings

Note:

- (a) 7/8 inch when mounted with lugs in same direction;  
5/8 inch when mounted with lugs in opposite direction.

ONE SPRING

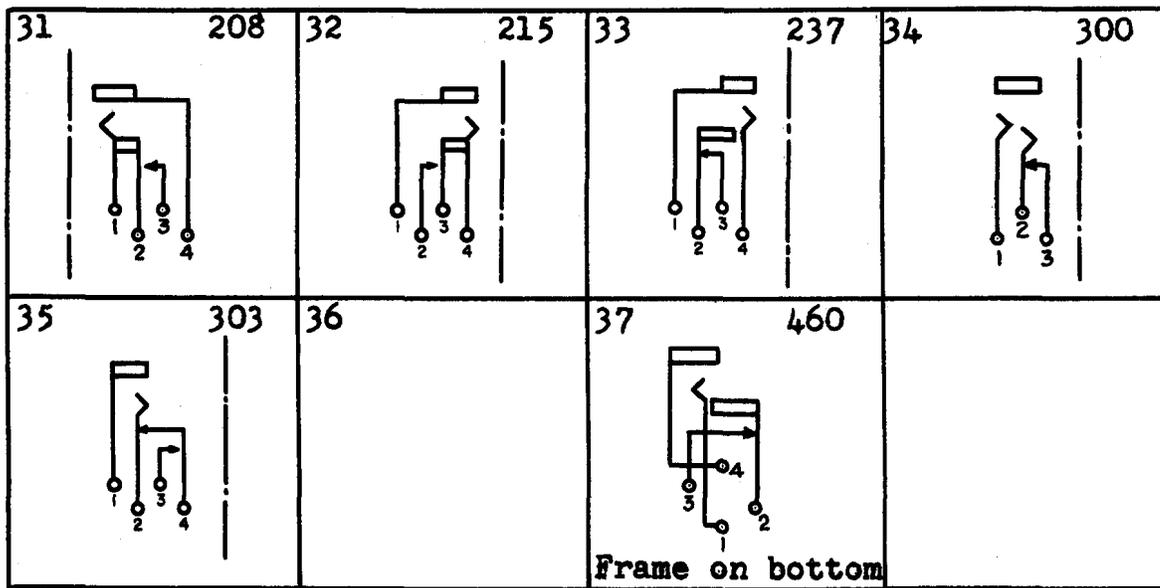
1	221 223	2	99 364		
Frame on bottom					

TWO SPRINGS

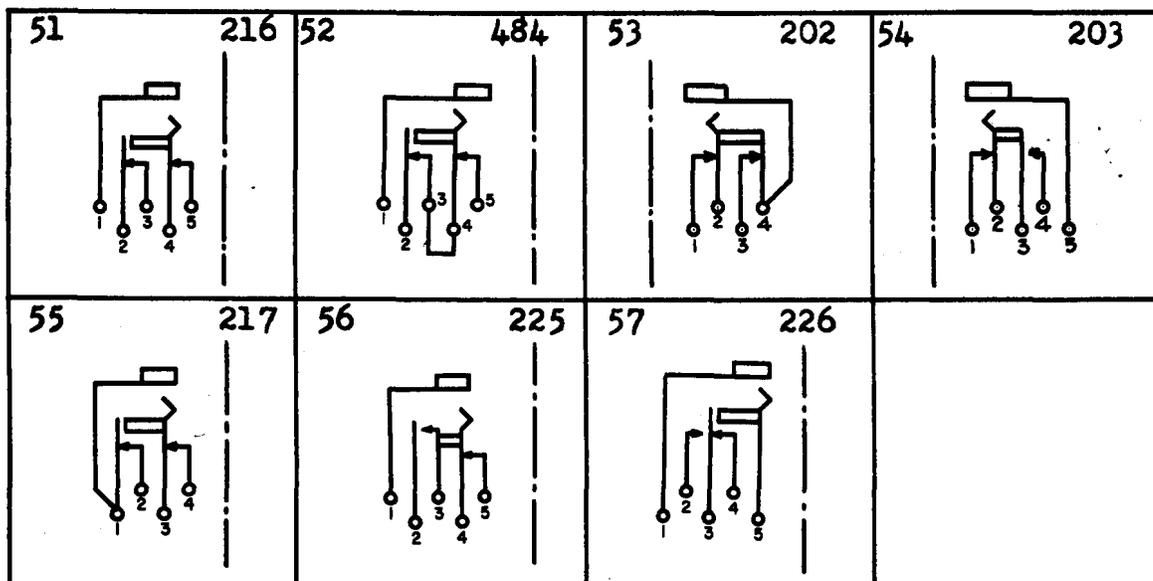
11	218	12	200	13	233	14	238 246
15	232	16	410A 410B 410D	17	410C		

Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for  
 pileup screws.

THREE SPRINGS

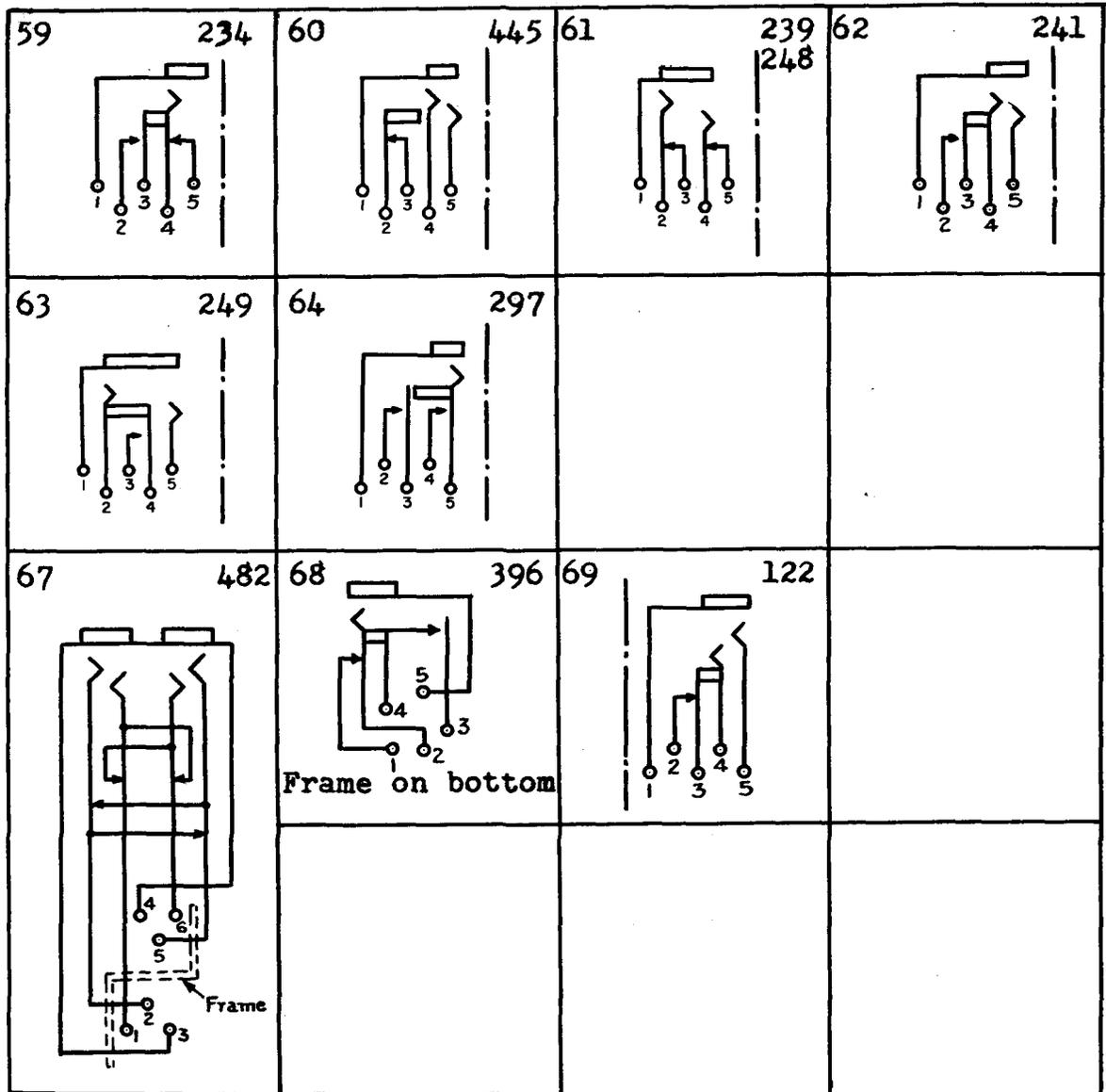


FOUR SPRINGS



Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 - - - - - indicates frame side having tapped holes for pileup screws.

FOUR SPRINGS (CON'TD)



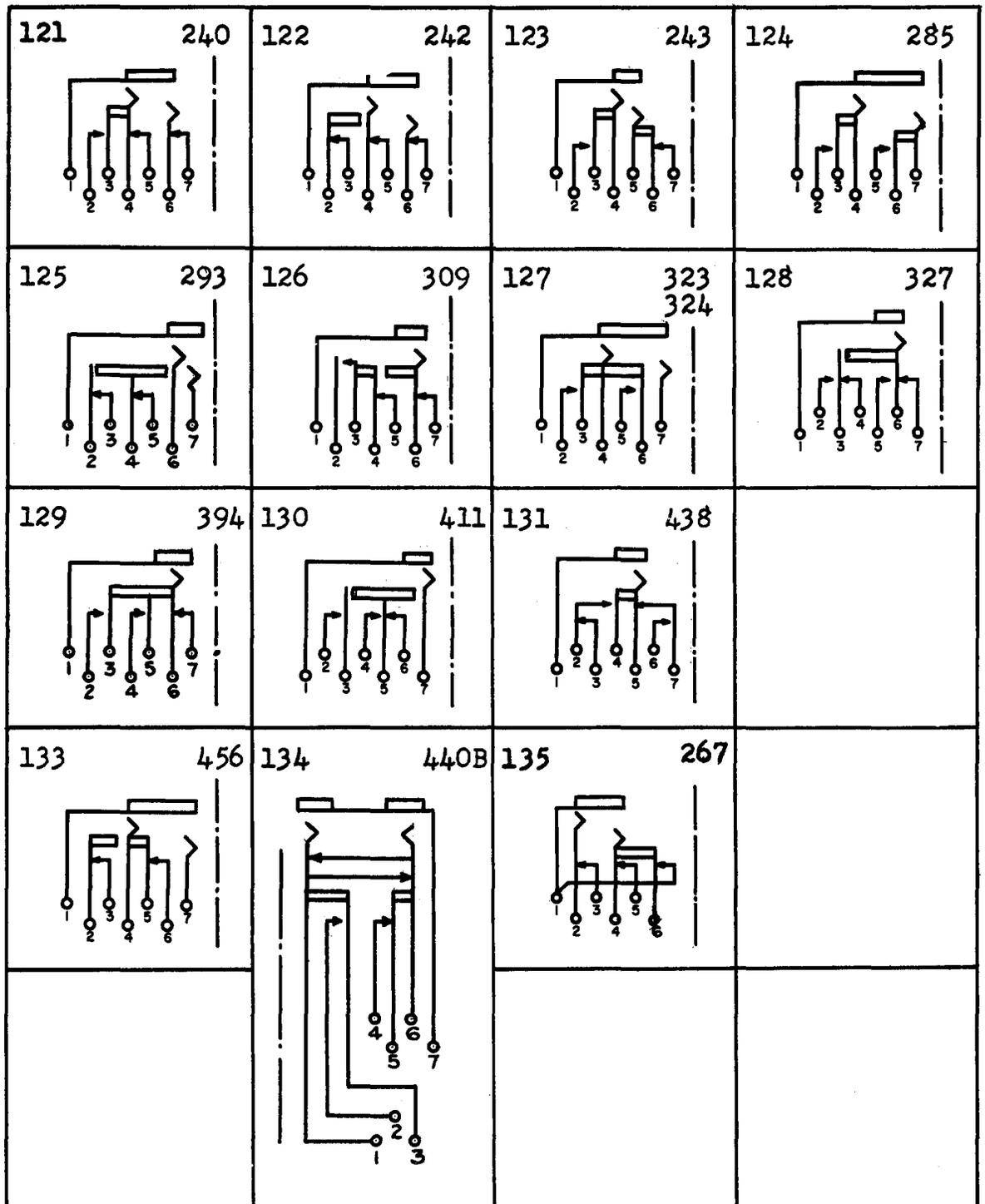
Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for pileup screws.

FIVE SPRINGS

<p>81 224</p>	<p>82 236</p>		<p>84 326</p>
<p>85 360</p>	<p>86 361</p>	<p>87 363</p>	<p>88 387</p>
<p>89 462</p>	<p>90 483</p>	<p>91 485</p>	<p>92 440A</p>
<p>93 227</p>	<p>94 443</p>		

Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for pileup screws.

SIX SPRINGS



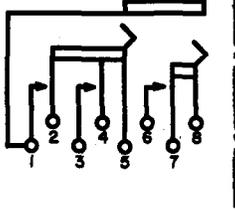
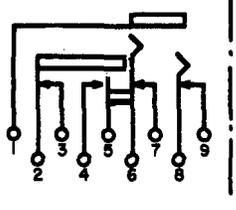
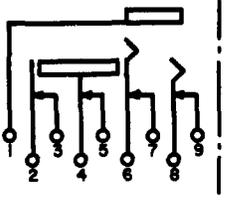
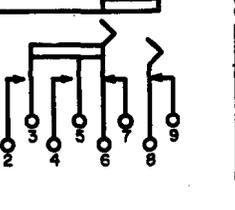
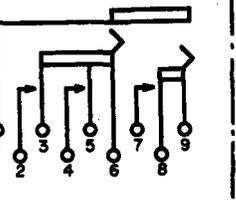
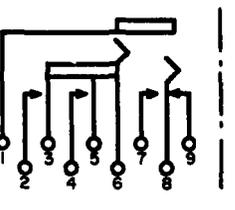
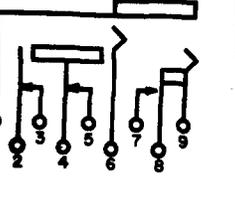
Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for pileup screws.

SEVEN SPRINGS

<p>141                      280</p>	<p>142                      355</p>	<p>143                      446</p>	<p>144                      449</p>
<p>145                      458</p>	<p>146                      476</p>		

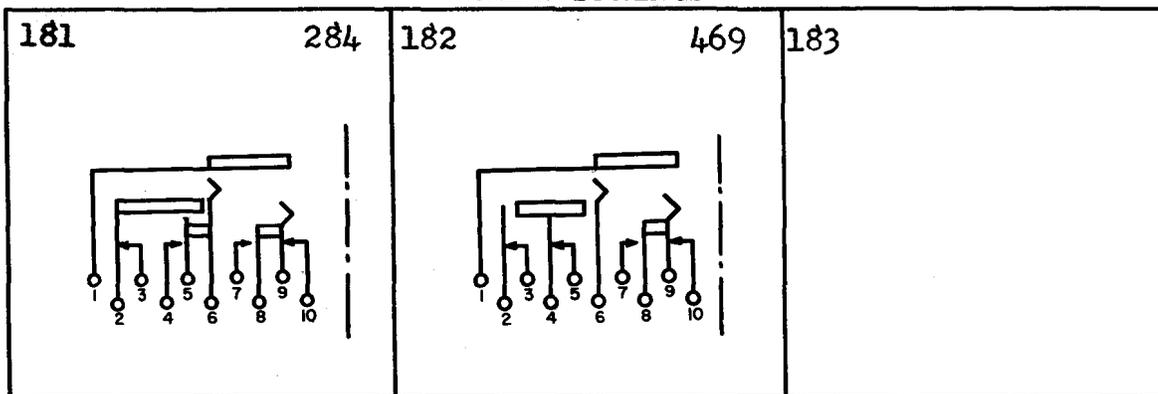
Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ———— indicates frame side having tapped holes for pileup screws.

EIGHT SPRINGS

<p>161 <span style="float: right;">244</span></p> 	<p>162 <span style="float: right;">245</span></p> 	<p>163 <span style="float: right;">289</span></p> 
<p>164 <span style="float: right;">290</span></p> 	<p>165 <span style="float: right;">291</span></p> 	<p>166 <span style="float: right;">372</span></p> 
<p>167 <span style="float: right;">454</span></p> 		

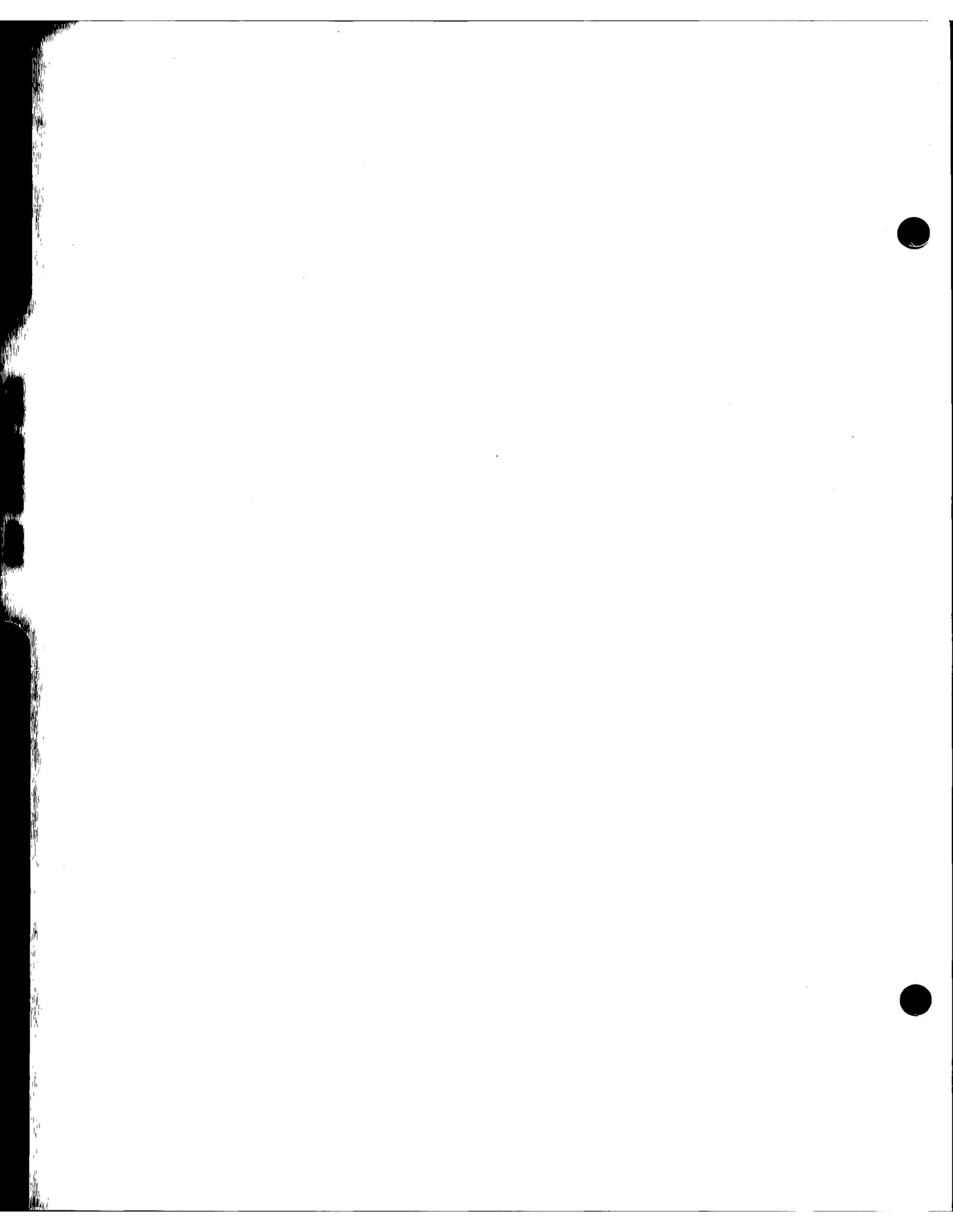
Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for pileup  
 screws.

NINE SPRINGS



Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- indicates frame side having tapped holes for pileup screws.





## SECTION II

### STRIP MOUNTED JACKS

#### General

The jacks listed in this section are strip mounted jacks. These jacks are assembled in the associated jack mounting and are not furnished separately.

In the column "Jack Mountings", listed in this section, the number in parenthesis following the code number indicates the number of jacks per mounting.

The spring combinations referred to in the tables are shown at the end of this section. On these figures, the numbers shown for the terminals are assigned for use with wiring diagram drawings. These numbers are assigned as follows:

When the jack is viewed from the wiring side in a normal position as defined on each figure, the terminals of each pileup are numbered from bottom to top or from left to right. The terminals shall always retain the same number as assigned for the normal position, regardless of the position in which the jack may be mounted.

**STRIP MOUNTED JACKS**

<b>JACKS ARRANGED FOR USE WITH 309-TYPE PLUGS</b>			
<b>Code No.</b>	<b>Length</b>	<b>Spg. Comb. Fig. No.</b>	<b>Used with Jack Mtgs.</b>
<b>TWO SPRINGS</b>			
(P) 92	3-1/8	211	113(20), 138(10), 139(10), 228(20), 234(40), 235(20), 247(20)
292	3-5/32	211	113(20), 138(10), 139(10), 234(40), 235(20), 247(20)
<p>The 292 jack is the same as the 92 jack except that terminals of the tip and ring springs will accomodate two No. 19 B&amp;S gauge wires instead of two No.22 B&amp;S gauge wires.</p>			
<b>FOUR SPRINGS</b>			
408	3-3/32	236	145(10)
<b>SIX SPRINGS</b>			
229	3-3/32	261	145(10)

**NOTE:** (P) Preferred Code

JACKS ARRANGED FOR USE WITH 310-TYPE PLUGS			
Code No.	Length	Spg. Comb. Fig. No.	Used with Jack Mtgs.
<b>TWO SPRINGS</b>			
(P) 49	3-5/32	212	77(5), 79(2), 114(20), 141(10), 142(10), 167(10), 168(20), 176(40)
193	3-11/64	211	118(20), 120(20), 122(20), 123(10), 127(10)
<b>THREE SPRINGS</b>			
(P) 378	3-31/64	221	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 232(17), 241(14), 250(10)
<b>FOUR SPRINGS</b>			
50	3-5/32	232	77(5), 114(20), 141(10), 142(10)
(P) 138	3-31/64	233	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 237(2), 241(14), 250(10)
(P) 141	3-31/64	234	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 232(17), 241(14), 250(10)
(P) 295	3-31/64	235	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 232(17), 241(14), 250(10)
<b>FIVE SPRINGS</b>			
347	3-1/2	254	116(10), 136(10), 137(10), 250(10)
The 347 jack is equipped with heavy contacts on tip combination.			
(P) 365	3-1/2	253	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 232(17), 241(14), 250(10)

**NOTE:**

(P) Preferred Code

**STRIP MOUNTED JACKS**

<b>JACKS ARRANGED FOR USE WITH 310-TYPE PLUGS</b>			
<b>Code No.</b>	<b>Length</b>	<b>Spg. Comb. Fig. No.</b>	<b>Used with jack mtgs.</b>
<b>FIVE SPRINGS (Cont'd)</b>			
(P) 499A	3-31/64	254	116(10), 136(10), 137(10), 250(10)
<b>SIX SPRINGS</b>			
(P) 275	3-31/64	262	112(20), 115(20), 116(10), 136(10), 137(10), 217(20), 241(14), 250(10), 232(17)
(P) 308	3-31/64	263	116(10), 136(10), 137(10), 250(10)
(P) 494A	3-31/64	264	116(10), 136(10), 137(10), 250(10)
<b>SEVEN SPRINGS</b>			
70	3-9/64	271	6(10), 21(10)
362	3-31/64	273	116(10), 136(10), 137(10), 250(10)
<b>EIGHT SPRINGS</b>			
(P) 500A	3-31/64	281	116(10), 136(10), 137(10), 250(10)

**NOTE:**  
(P) Preferred Code

STRIP MOUNTED JACKS

JACKS ARRANGED FOR USE WITH 378-TYPE PLUGS			
Code No.	Length	Spg. Comb. Fig. No.	Used with Jack Mtgs.
FOUR SPRINGS			
15	2-31/32	231	6(10), 9(10), 10(20), 15(10), 21(10)
Local contacts of the No. 15 jack not suitable for talking circuits.			
112	2-31/32	231	6(10), 9(10), 10(20), 21(10)
FIVE SPRINGS			
66	3-5/16	251	15(10)
SEVEN SPRINGS			
100	3-5/16	272	15(10)

NOTE: (P) Preferred Code

ONE SPRING

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TWO SPRINGS

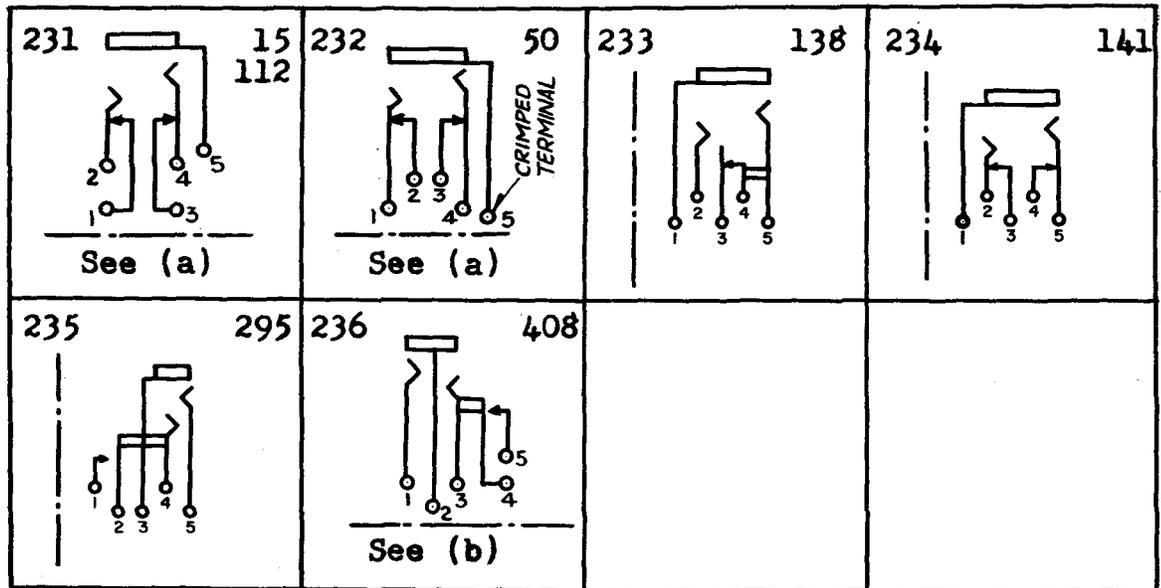
<p>211</p> <p>92 193 292</p>	<p>212</p> <p>49</p>		
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THREE SPRINGS

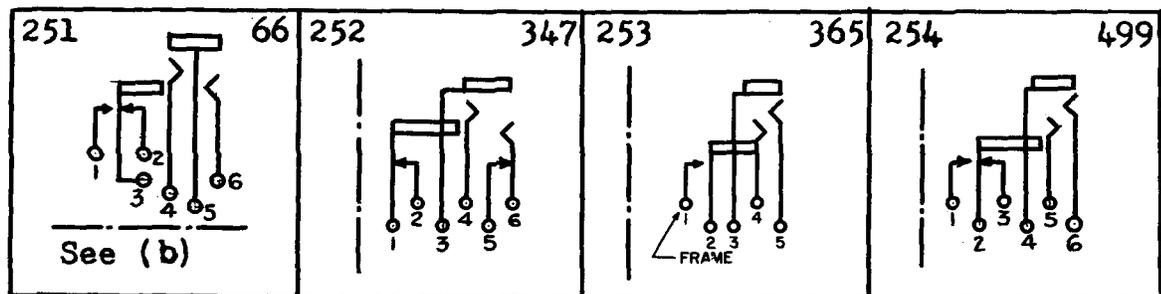
<p>221</p> <p>378</p>			
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Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 -----side having tapped holes for pileup screws.

FOUR SPRINGS



FIVE SPRINGS

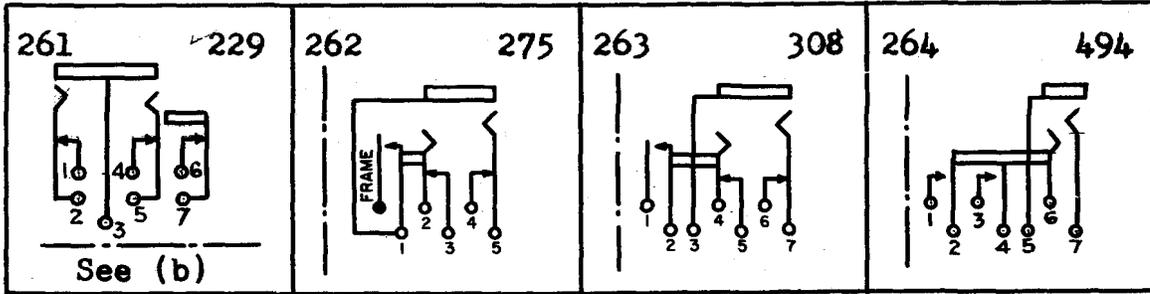


Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 ----- Side having tapped holes for pileup screws or side with terminals on outer surfaces of jack mountings as specified below:

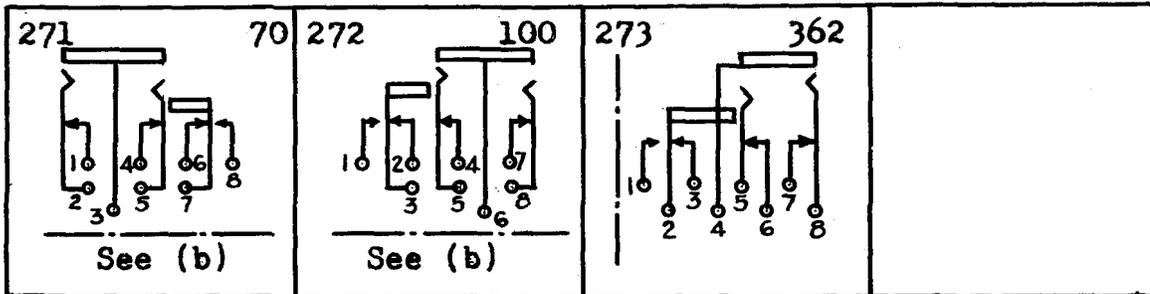
(a) Side with external terminals.

(b) Side with heavy external terminals.

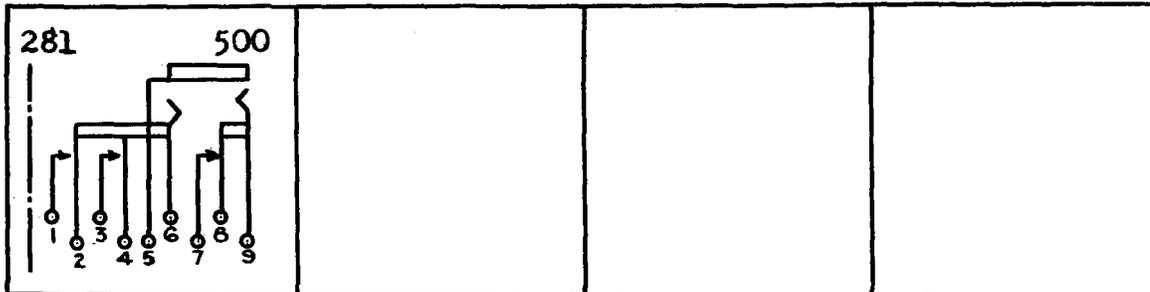
SIX SPRINGS



SEVEN SPRINGS

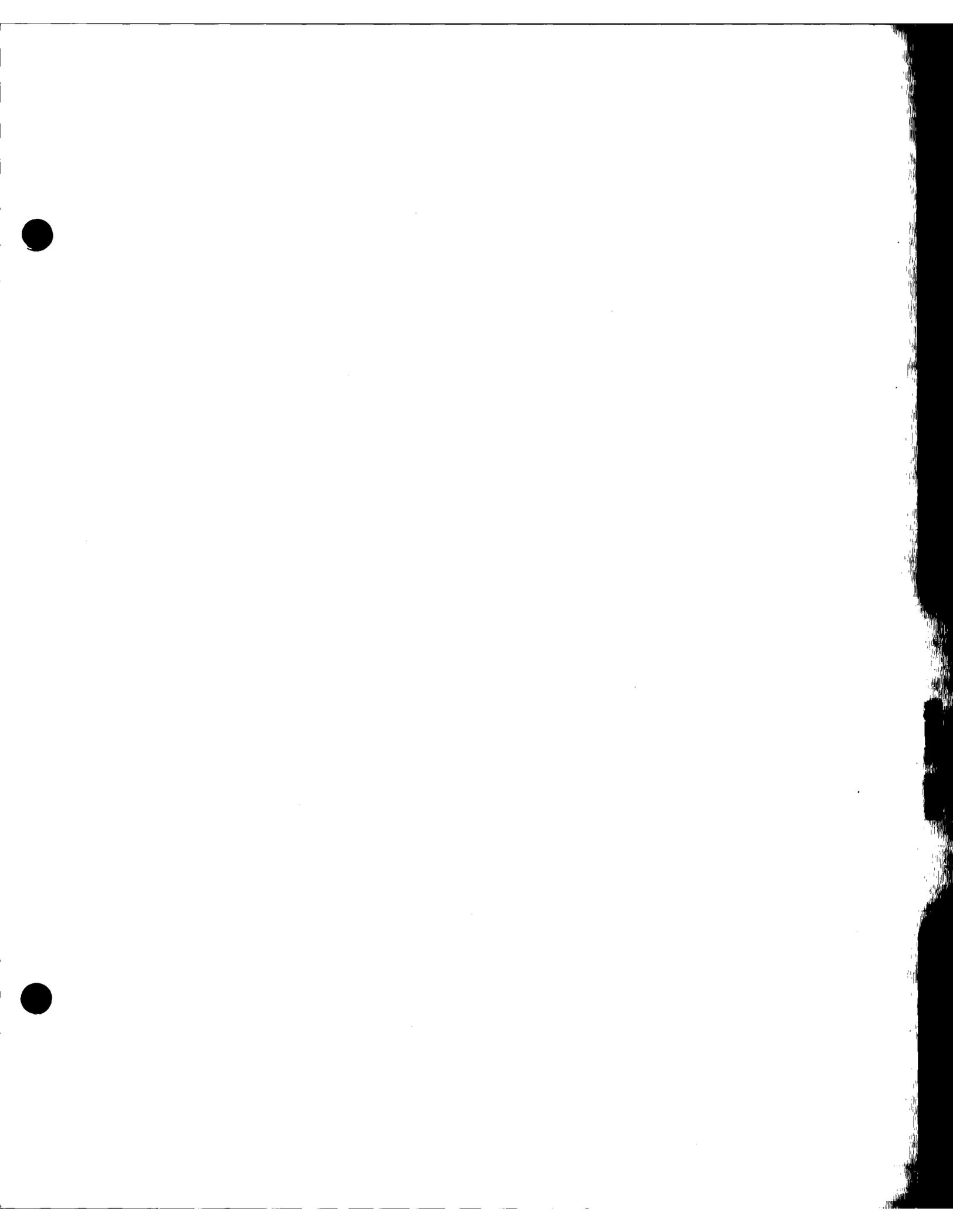


EIGHT SPRINGS



Number in upper left-hand corner indicates figure number.  
 Numbers in upper right-hand corner indicate code numbers.  
 -----Side having tapped holes for pileup screws or side with terminals on outer surfaces of jack mountings as specified below:

(b) Side with heavy external terminals.





X-75500

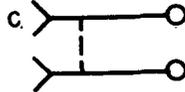
SECTION III  
COAXIAL JACKS

7-15-52

III-1

COAXIAL JACKS AND ADAPTERSGeneral

Unless otherwise specified, all coaxial jacks described herein have one inner contact surface and one outer contact surface coaxially arranged, and are designed for use with No. 724 or KS8086 cable (or similar cables of the same diameters). Their use with cables of other diameters is described on ED92524-01. The schematic symbol for such jacks is shown below. Symbols for jacks having different schematics are given adjacent to the illustrations.



All single Western Electric Company coded coaxial plugs will mate with single jacks. All twin plugs will mate with all twin jacks except for the No. 370A plug which has 1-3/4 inch centers instead of the customary 5/8 inch. Twin plugs will also mate with any two single jacks which are mounted on the same centers as the plug members.

The contact surfaces of all Western Electric Company coded coaxial jacks are gold-plated.

Western Electric Company coded plugs and jacks designed for minimum impedance mismatch at 75 ohms up to at least 100 megacycles are identified by means of an external chromium finish.

Where solderless connections are specified for the shield, the sleeve for making the connection is furnished as a loose part.

Information regarding methods of terminating cables in certain coaxial jacks is shown on ED92524-01.

For jack mountings which will accommodate coaxial jacks, see section on jack mountings.

A number of adapters for various coaxial jacks, plugs and cables are listed at the end of this section.

The following hoods (not manufactured by Western Electric Company) permit connection of coaxial cables to KS13740 jacks and KS14414 receptacles.

<u>Hoods</u>	<u>Used with</u>
MX-195/U hood	RG-55/U, -58/U, -58A/U cables
MX-367/U hood	RG-59/U, -62/U, -71/U cables

COAXIAL JACKS AND ADAPTERS (Continued)Jacks For Use With 337-type Plug

These jacks are intended for use with the following types of plugs. Single Plugs 337, 339, 340, 342, and 343, Twin Plugs 341, 345, and 379.

They may be used with other coaxial plugs but when so used, the combination will not have the minimum impedance mismatch of which 358-type plugs, for instance are capable.

Jacks For Use With 358-type Plugs

These jacks are intended for use with the following types of plugs: Single Plugs 358, 368, 369, 374, and 208 connectors, Twin Plugs, 370 and 372.

AN Type Jacks

AN Type jacks may be used with plugs of the same AN Type.

X-75500

COAXIAL JACKS

JACK INTENDED FOR USE WITH THE 337-TYPE PLUG

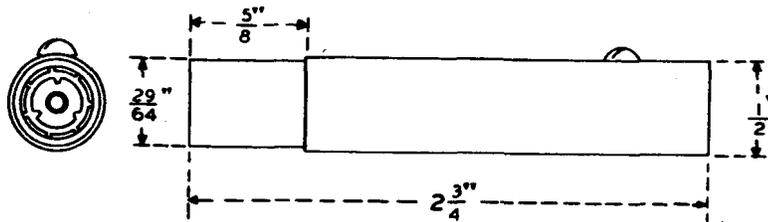
SINGLE JACKS

(P) No. 466B Jack

Test Voltage

2,000 ac

The No. 466B jack is for use with patching cord. It has no mounting lug.



No. 466B

Note:

(P) Preferred Code.

JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Continued)

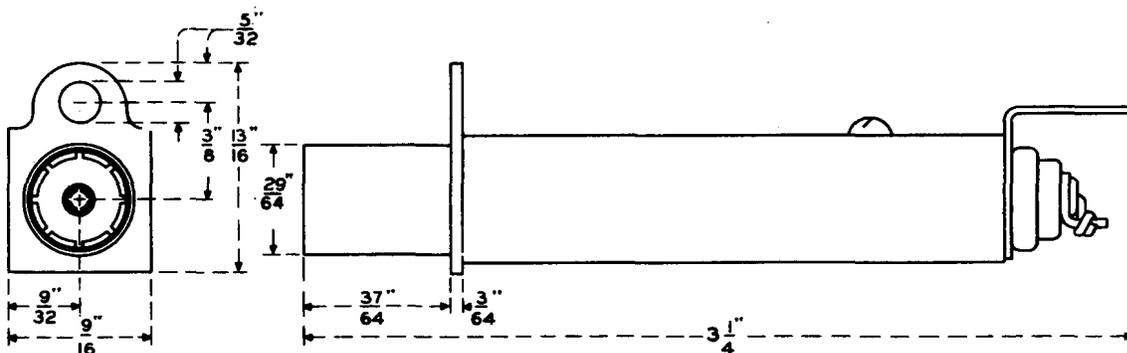
SINGLE JACKS

(P) No. 468B Jack

Test Voltage

2,000 a-c

The No. 468B jack has terminals for connecting wires (instead of coaxial cable) to inner and outer conductors. It has no swivel joint, otherwise it is the same as the No. 464C jack.



No. 468B

X-75500

Note:

(P) Preferred Code.

COAXIAL JACKS

JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Contd)

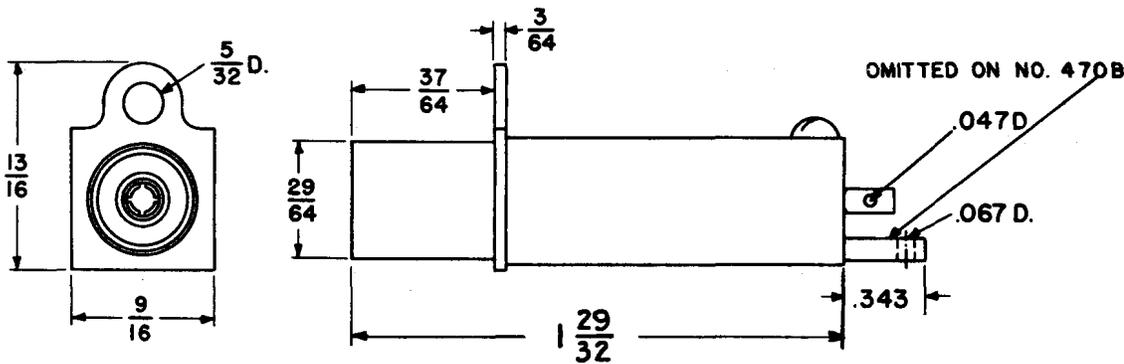
SINGLE JACKS

(P) No. 470B Jack  
 (P) No. 470C Jack

Test Voltage

2,000 a-c

The Nos. 470B and 470C jacks are arranged for wire connections at the terminal end and are not intended for connection to a coaxial cable. The 470B jack is provided with a hole in the frame to permit connection to the outer contact. The 470C jack has an extension to the body for ground connection.



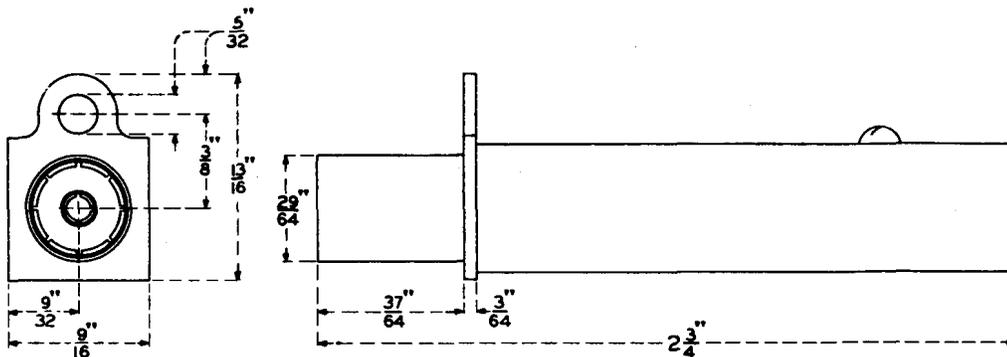
No. 470 Type

(P) No. 472B Jack

Test Voltage

2,000 a-c

The No. 472B jack is used with KS-13679 (RG 59/U) coaxial cable.



No. 472B

Note:

(P) Preferred Code.

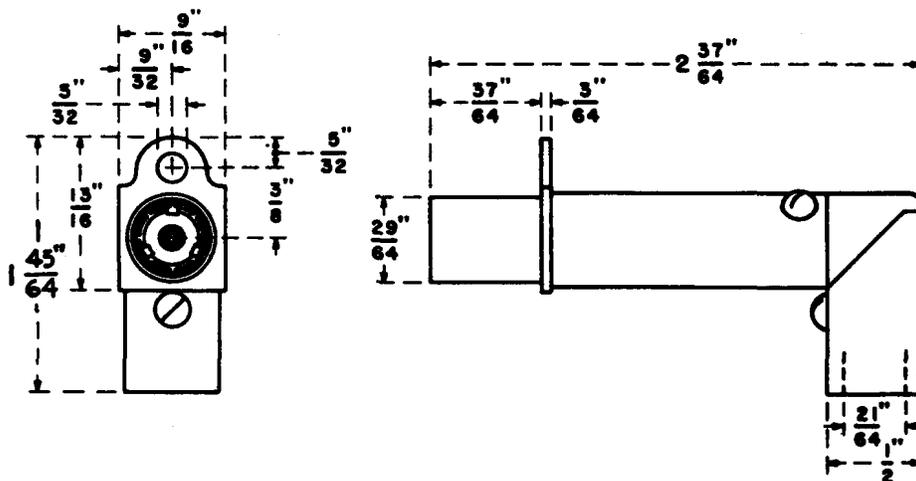
## JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Contd)

## SINGLE JACKS

(P) No. 474B JackTest Voltage

2,000 ac

The No. 474B jack is for use where right-angle coaxial connections are required. It has swivel elbow; mounting space depends on position of swivel. The cable end is equipped for solderless shield connection.



No. 474B

Note:

(P) Preferred Code.

X-75500

**COAXIAL JACKS**

JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Continued)

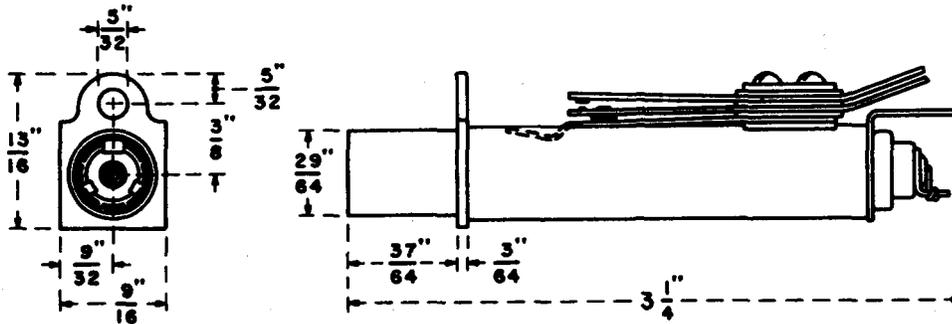
SINGLE JACKS

(P) No. 475A Jack

Test Voltage

500 ac

The No. 475A jack has an auxiliary pair of normally open contacts mounted on the outside of the frame, rated at 1/2-ampere noninductive 50-volt circuit. When a plug is inserted in the jack these contacts are closed. The jack is provided with terminals for connecting wires instead of coaxial cable.



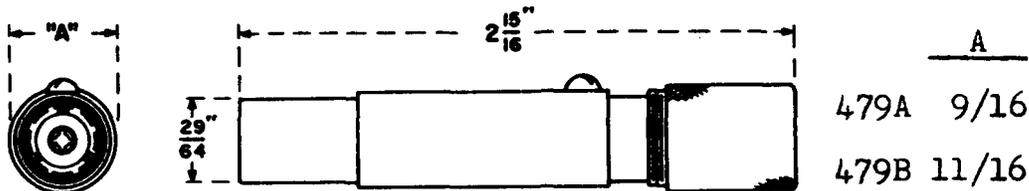
No. 475A

(P) Nos. 479A and B Jacks

Test Voltage

2,000 ac

The right end as viewed in the illustration has an inner contact for spring connection to a 0.270-inch (No. 479A jack) and a 0.375-inch (No. 479B jack) outside plant type cable, respectively, and a gland nut for clamping to the outer conductor of the cable. It is used for attaching patching cord to cable for emergency repairs.



Nos. 479A and B

Note:

(P) Preferred Code.

JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Continued)

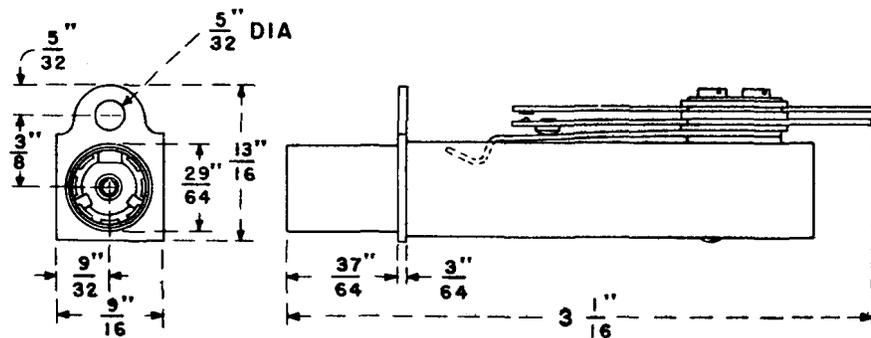
SINGLE JACKS

(P) No. 480B Jack

Test Voltage

500 ac

The No. 480B jack has an auxiliary pair of normally open contacts mounted on outside of frame, rated at 1/2-ampere noninductive 50-volt circuit. When a plug is inserted, the contacts are closed. The No. 480B jack is similar to the No. 475A jack except that it is arranged for solderless shield connection to coaxial cable.



No. 480B

X-75500

Note:

(P) Preferred Code.

**COAXIAL JACKS**

**JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Continued)**

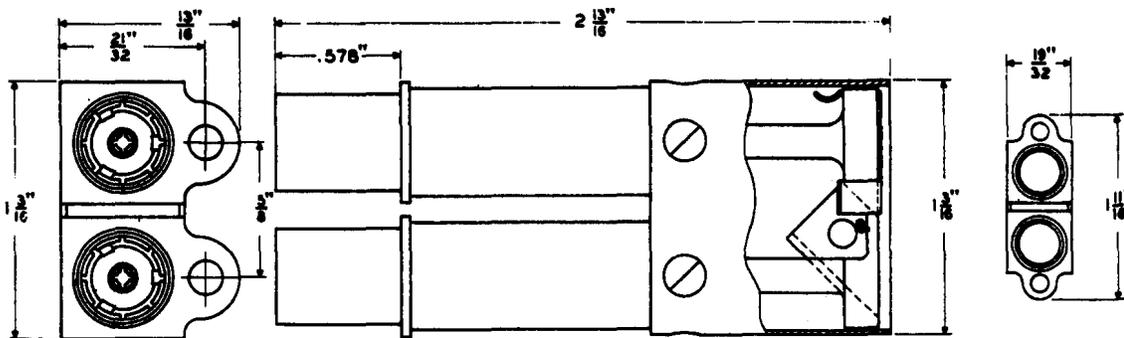
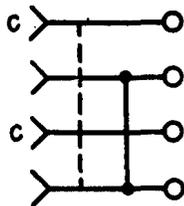
**TWIN JACKS**

**No. 465B Jack**

**Test Voltage**

2,000 ac

In the No. 465B jack one cable may be brought in at 45 degrees to permit use in a restricted area. It is used with the 146F filter and the 53A, C, and D equalizers. The mounting lugs on the two individual jacks may be positioned for mounting so as to extend in opposite directions, back-to-back, or in the same direction, side-by-side. Connections can be made at rear of either or both individual jacks of the pair. The outer contacts are not insulated from the metal cover.



**No. 465B**

JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Contd)

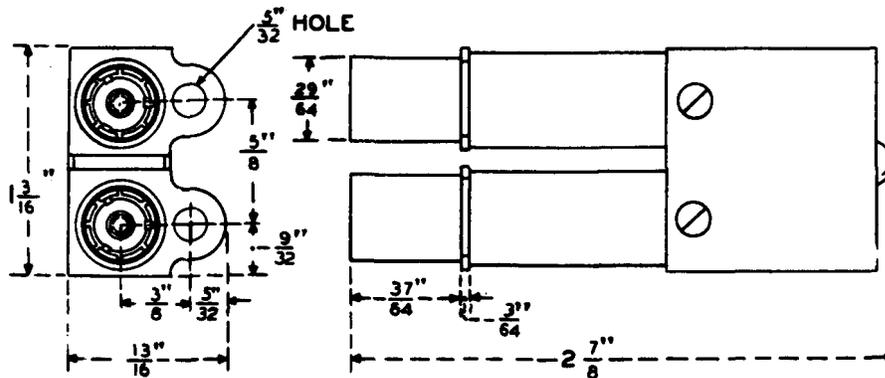
TWIN JACKS

(P) No. 465C Jack

Test Voltage

2,000 ac

Cable entrance holes are on the same axis as the individual jack fingers. Outer contacts are not insulated from the metal cover. The mounting lugs on the two individual jacks are normally positioned mounting in opposite directions, back-to-back; can be obtained as shown.



X-75500

No. 465C

Note:

(P) Preferred Code.

# COAXIAL JACKS

## JACKS INTENDED FOR USE WITH THE 337-TYPE PLUG (Contd.)

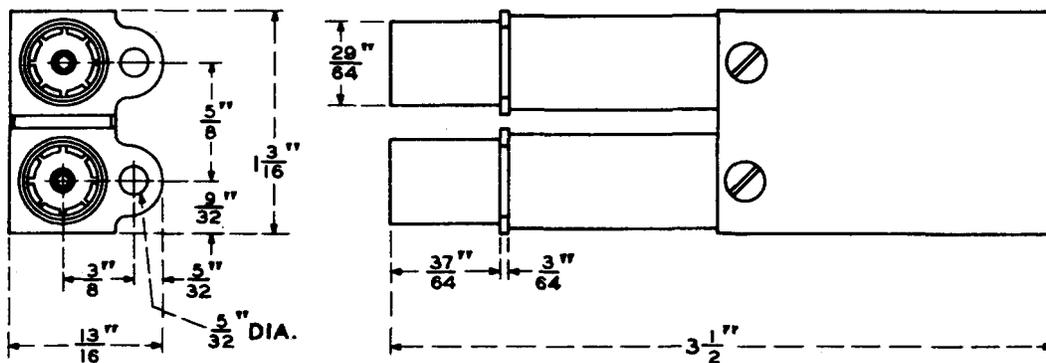
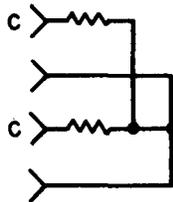
### TWIN JACKS

(P) No. 489A Jack

Test Voltage

2,000 ac

The mounting lugs on the two individual jacks may be positioned for mounting so as to extend in opposite directions, back-to-back, or in the same direction, side-by-side. The inner contacts of the two jacks are interconnected by two 55 ohm resistors in series. The outer contacts are connected together and to the mid-point between the resistors. Not for cable connection.



No. 489A

Note:

(P) Preferred Codes

COAXIAL JACKS

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUGS

SINGLE JACKS

(P) NO. 477A, B, and C Jack  
 NO. 503A Jack

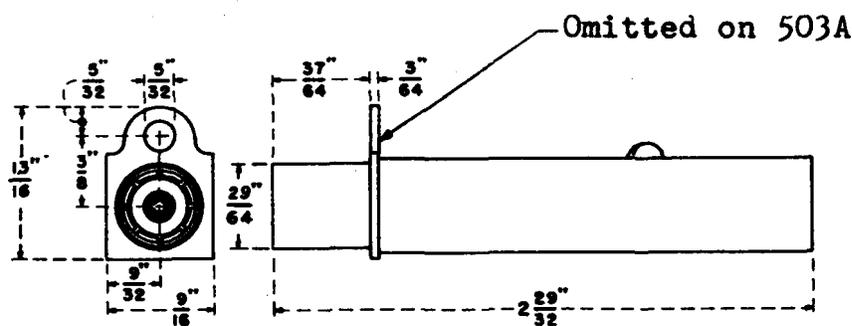
Test Voltage

2,000 ac

The 477 type jack has solderless sleeve connections to cable. Chromium finish. When used with No. 358-type plug and 724 cable, the 477A jack will provide 75-ohm impedance up to at least 100 megacycles. The 477A jack is intended for use in the TD-2 radio systems. Body is in a fixed position in the frame. The 477B jack is intended for use in the L3 carrier telephone system. Body rotates freely in the frame thus facilitating alignment of cable. The 477C jack is intended for use in the L1 carrier telephone system. Body rotates freely in the frame thus facilitating alignment of cable.

The 503A jack is arranged for solderless shield connection to 724 cable by means of a sleeve, KS15712,L5, which is furnished as a loose part. It is intended for use as a part of the 11B attenuator in the L3 carrier telephone system. Its body rotates freely in the sleeve to facilitate alignment of the cable.

<u>Code No.</u>	<u>Dimension "A"</u> <u>(Inches)</u>
477A	2-29/32
477B	3.131
477C	2-9/16
503A	3.131



Nos. 477A, B and C  
 No. 503A

NOTE:  
 (P) Preferred Code

COAXIAL JACKS

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUGS (Continued)

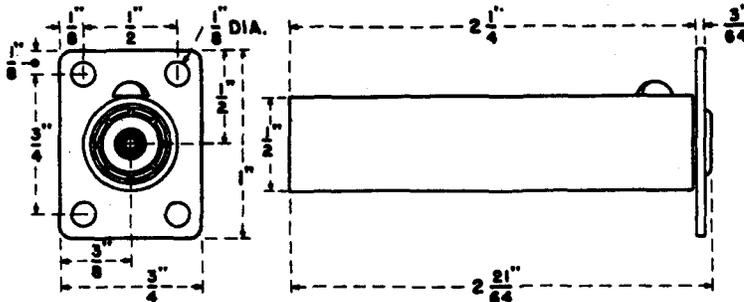
SINGLE JACKS

(P) No. 478A Jack

Test Voltage

2,000 ac

The No. 478A jack is arranged for soldered wire connection to the inner contact terminal at the mounting end. Not for coaxial cable connection. Connection to the body is made through the mounting plate. Chromium finish. Designed for minimum impedance mismatch.



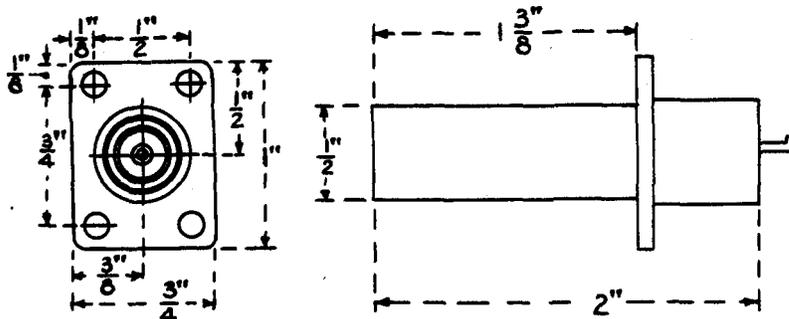
No. 478A

(P) No. 505A Jack

Test Voltage

2,000 ac

The No. 505A jack is arranged for soldered connection to the inner conductor. Not intended for use with coaxial cable. Intended for use with the TJ radio relay system.



Note:

(P) Preferred Code.

No. 505A

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUGS (Continued)

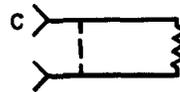
SINGLE JACKS

(P) No. 486A Jack

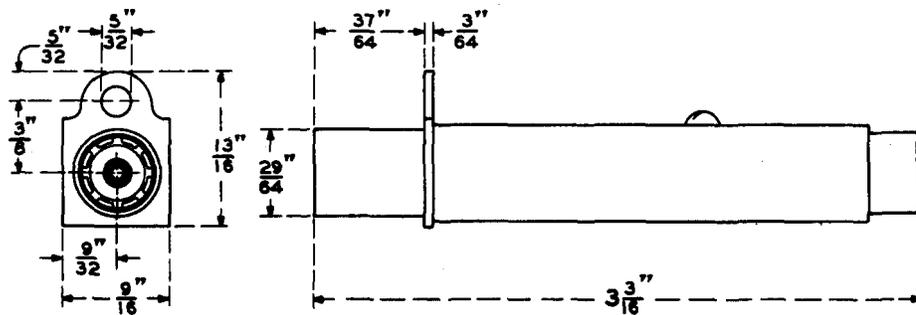
Test Voltage

2,000 a-c

The No. 486A jack contains 75-ohm deposited carbon rod resistance mounted coaxially with the outer housing and connected across coaxial members. It is intended for use as a termination jack in coaxial circuits. Maximum continuous dissipation is 0.1 watt. The return loss of an ideal 75-ohm transmission line when terminated in this jack is greater than 45 decibels at frequencies up to 80 megacycles.



X-75500



No. 486A

Note:

(P) Preferred Code.

**COAXIAL JACKS**

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUGS (Continued)

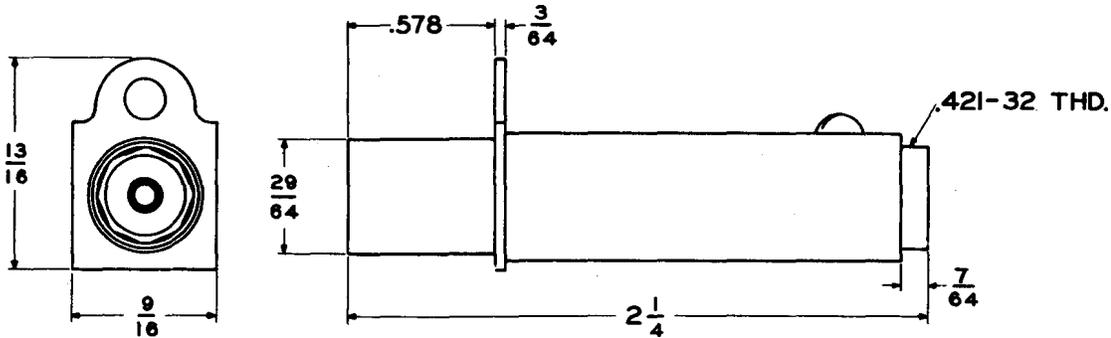
SINGLE JACKS

(P) No. 487A Jack

Test Voltage

2,000 a-c

The No. 487A jack is part of 9A attenuator. It is chromium finished. Not for connection to cable. Designed for minimum impedance mismatch.



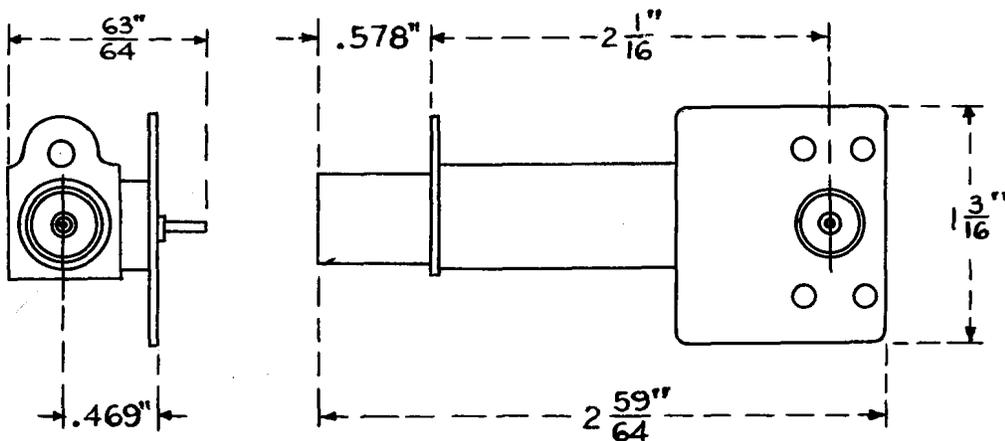
No. 487A

No. 504A Jack

Test Voltage

2,000 ac

The 504A jack is arranged for soldered connection to the inner conductor on the 90° offset end. Not intended for use with coaxial cable. Intended for use with the TE radio system.



Note:

(P) Preferred Code.

No. 504A

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUG (Continued)

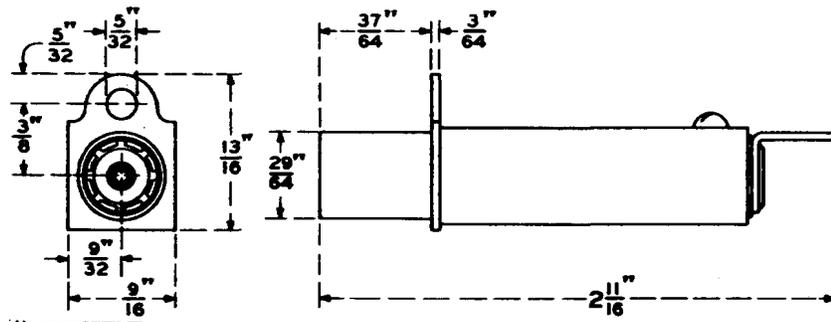
SINGLE JACKS

(P) No. 488A Jack

Test Voltage

2,000 ac

The No. 488A jack is arranged for soldered wire connections to inner and outer contacts. Not for cable connection. It is chromium finished. Designed for minimum impedance mismatch.



No. 488A

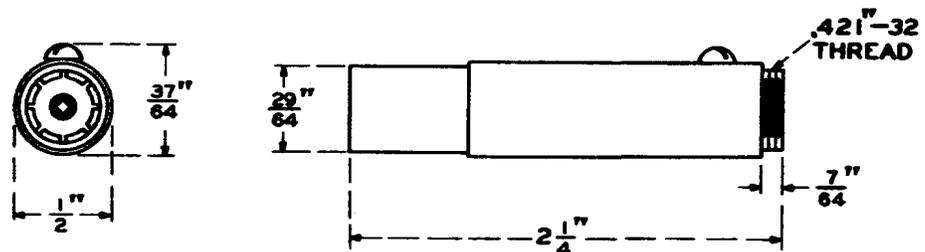
X-75500

(P) No. 490A Jack

Test Voltage

2,000 ac

The No. 490A jack is not for connection to a coaxial cable. At threaded end, the inner contact terminal is arranged for soldered wire connection. The jack is chromium finished. It is similar to No. 487A jack except that it has no mounting lug. Designed for minimum impedance mismatch.



No. 490A

Note:

(P) Preferred Code.

**COAXIAL JACKS**

**JACKS INTENDED FOR USE WITH THE 358-TYPE PLUG (Continued)**

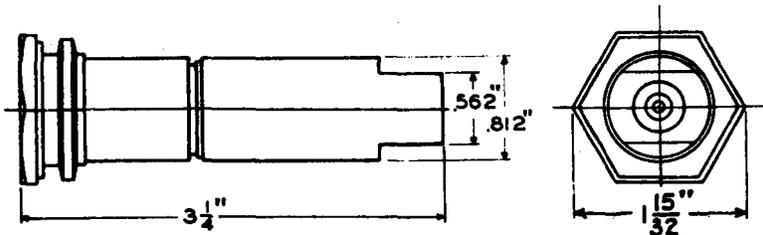
**SINGLE JACKS**

**(P) No. 492A Jack**

**Test Voltage**

1,000 ac

The No. 492A jack is provided with a solderless sleeve connection to cable. It is a sealed jack designed for use with equipments which must be hermetically sealed. The jack is chromium plated. Designed for minimum impedance mismatch.



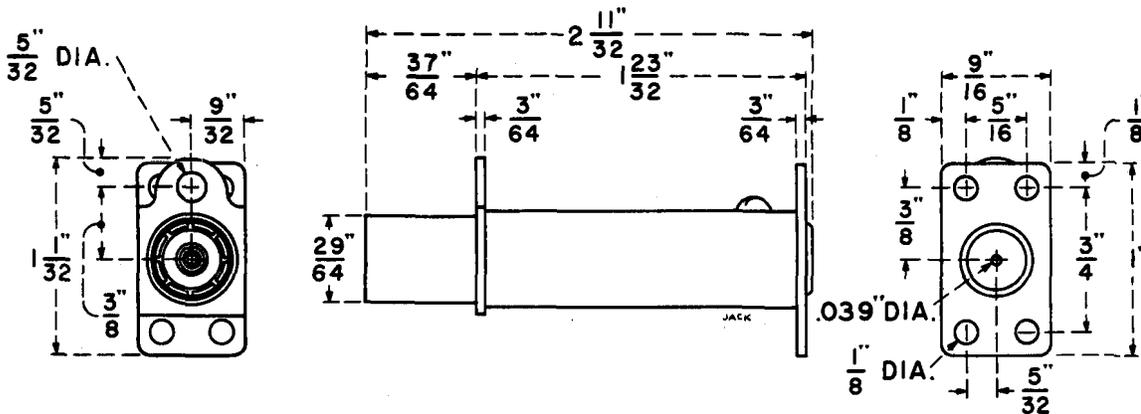
No. 492A

**(P) No. 498A Jack**

**Test Voltage**

2,000 ac

The 498A Jack is arranged for soldered wire connection to the inner contact terminal at the mounting end. The outer conductor is electrically common with the mounting plates.



**Note:**

No. 498A

(P) Preferred Code.

JACKS INTENDED FOR USE WITH THE 358-TYPE PLUG (Continued)

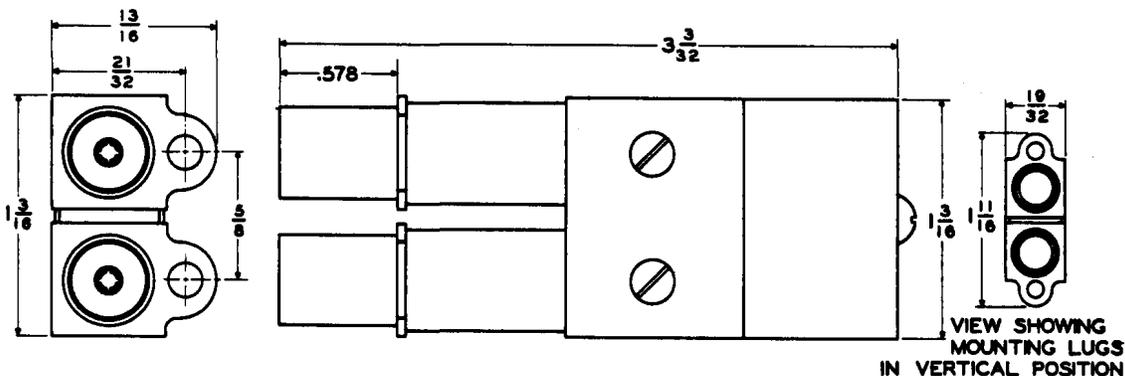
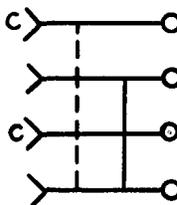
TWIN JACKS

(P) No. 491A Jack

Test Voltage

2,000 a-c

The No. 491A jack is provided with a solderless sleeve connection to cable. Outer contacts are not insulated from metal cover. Chromium finish. Designed for minimum impedance mismatch. The mounting lugs on the two individual jacks may be positioned for mounting so as to extend in opposite directions, back-to-back; or in the same direction, side-by-side.



No. 491A

Note:

(P) Preferred Code.

X-75500

COAXIAL JACKS

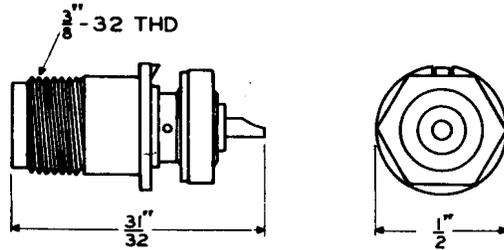
"AN" TYPE

SINGLE JACKS

KS-13716 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13717	500 a-c	250 a-c	not constant	BN	UG-206/U Receptacle	RG-55/U, -58/U, -59/U, -62/U, -71/U.

Gold-plate finish.

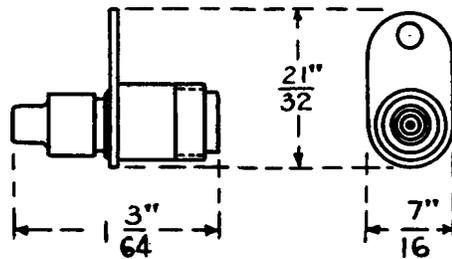


KS-13716

KS 16417 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS16416	---	250 ac	50 ohm	BN	UG 246/U	RG 58/U, RG 59/U

Silver-plate finish.



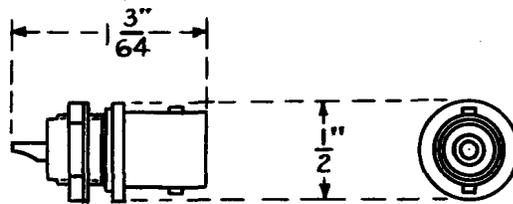
KS 16417

"AN" TYPE  
SINGLE JACKS

KS 16419 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS13737	--	500 ac	50 ohm	BNC	UG 625/U	RG 58/U, -59/U

Silver-plate finish.



KS 16419



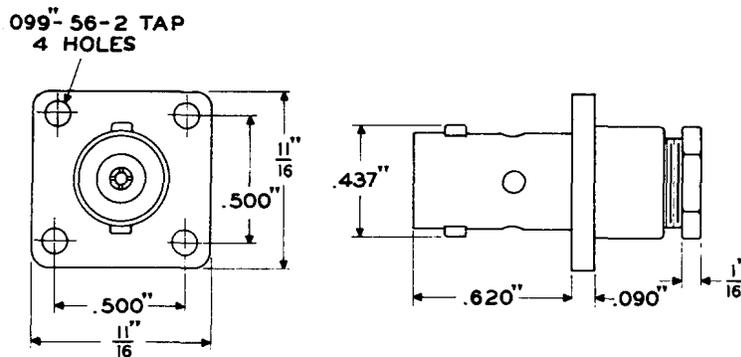
"AN" TYPE

SINGLE JACKS

(P) KS-13738 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13737	--	500 ac	not constant	BNC	UG-262/U	RG-59/U, -62/U, -71/U.

Silver-plate finish.



KS-13738

X-75500

Note:

(P) Preferred code.

COAXIAL JACKS

"AN" TYPE

SINGLE JACKS

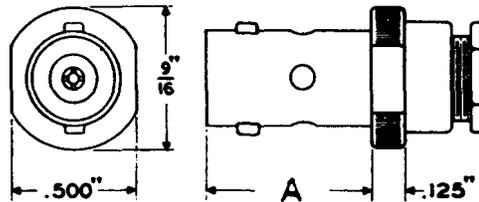
(P) KS13739 Jack  
KS16418 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
(For KS13739) KS13737	--	500 ac	not constant	BNC	UG 261/U	RG 59/U, -62/U, -71/U
(For KS16418) KS13737	--	500 ac	50 ohm	BNC	UG 89/U	RG 58/U

Silver-plate finish. KS 13739 jack used with P2BA cord.

Dim. "A"

KS13739 .554"  
KS16418 .662"



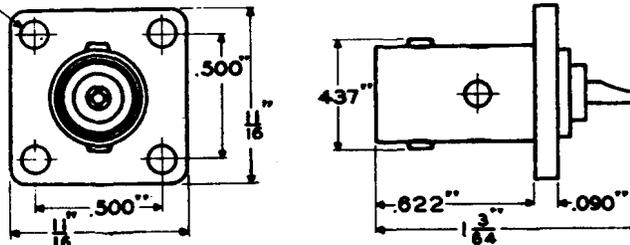
(P) KS13740 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS13737	500 ac	500 ac	not constant	BNC	UG 290/U Receptacle	RG 58/U, -59/U, -62/U, -71/U.

See page III-2

Silver-plate finish.

.099"-56-2 TAP  
4 HOLES



NOTE:

(P) Preferred code.

"AN" TYPE

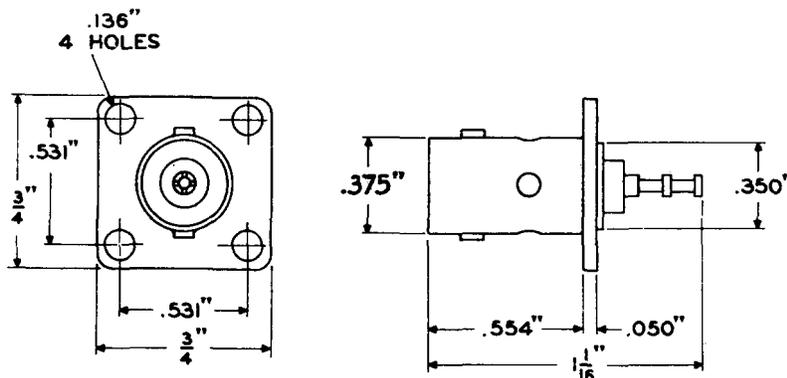
SINGLE JACKS

(P) KS-14184 Receptacle

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13737	500 a-c	500 a-c	not constant	BNC	UG-185/U Receptacle	RG-58/U, -59/U, -62/U, -71/U.

Similar to KS-13740 except mounting plate.  
Silver-plate finish.

I-75500



KS-14184

Note:

(P) Preferred Code.

COAXIAL JACKS

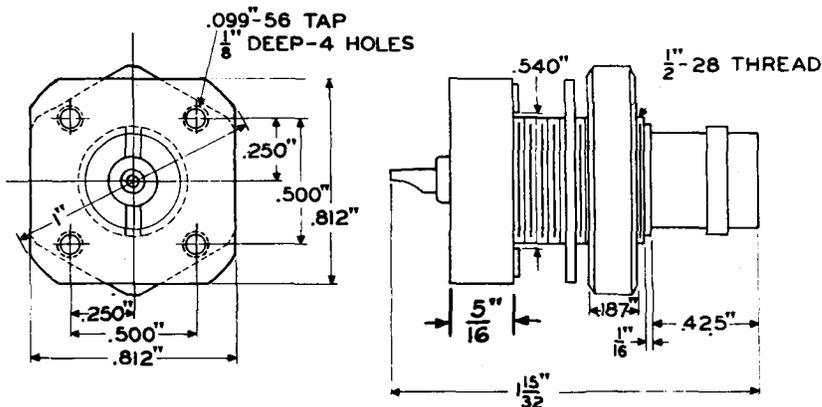
"AN" TYPE

SINGLE JACKS

(P) KS-14414 Receptacle

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13737	500 a-c	500 a-c	not constant	BNC	UG-254A/U Receptacle	RG-58/U, 59/U,62/U, 71/U. See page III-2

Pressurized construction. Silver-plate finish.



KS-14414

Note:

(P) Preferred Code.

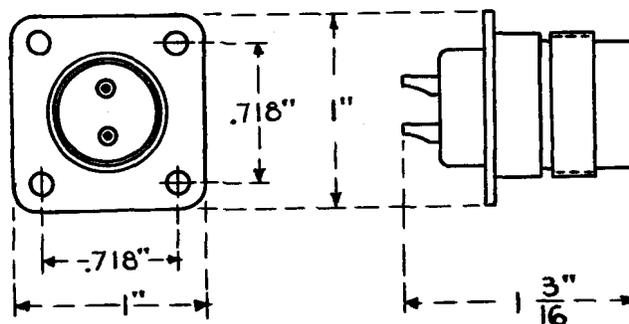
"AN" TYPE

TWIN JACK

KS 16149 Rectacle

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS 14323					UG 422/U	

Twin jack. Silver-plate finish.



KS 16149

COAXIAL JACKS

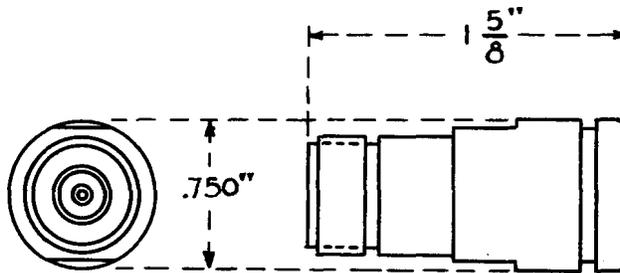
"AN" TYPE

SINGLE JACKS

KS16289 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS16290	500 ac	500 ac	50 ohms	N	UG 23D/U	724

Silver-plate finish. Modified for use with 724 cable. Shield connection is made by means of a KS15712, L5 Outer Sleeve, not furnished with jack.



KS16289

"AN" TYPE

TWIN JACK

KS 14324 Jack

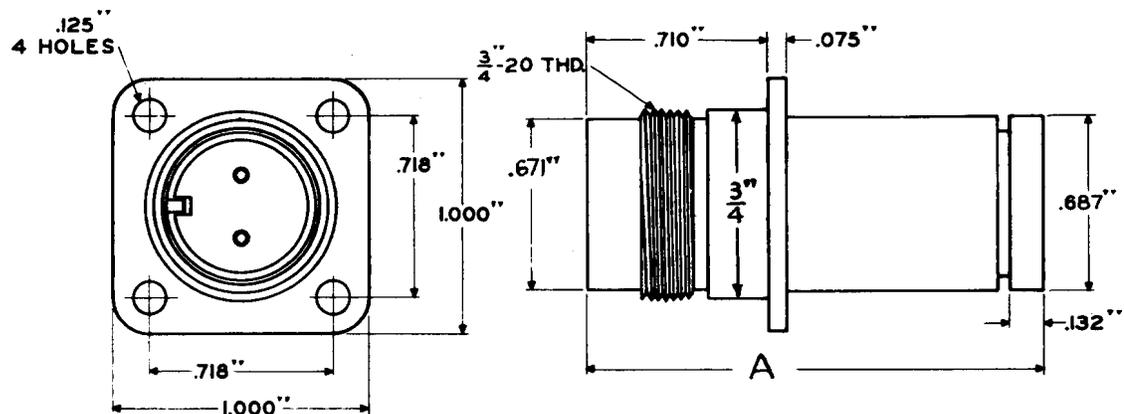
<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14323	500 ac	500 ac	not constant	Twin	UG 423/U	RG 22/U, -22A/U

Twin jack. Silver-plate finish.

KS16287, L1 and L2 Jack

KS16288 or KS14323	500 ac	500 ac	not constant	Twin	UG 423/U	720 or 754
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Twin jack. Silver-plate finish. KS16287, L1 is same as KS16287, L2 (illustrated) except that mounting plate is omitted. Shield connection, KS15712, L6 for use with the 720 or 754 cable, is not furnished with the jack.



Dim. "A"

KS14324	1-3/4
KS16287	1-7/8

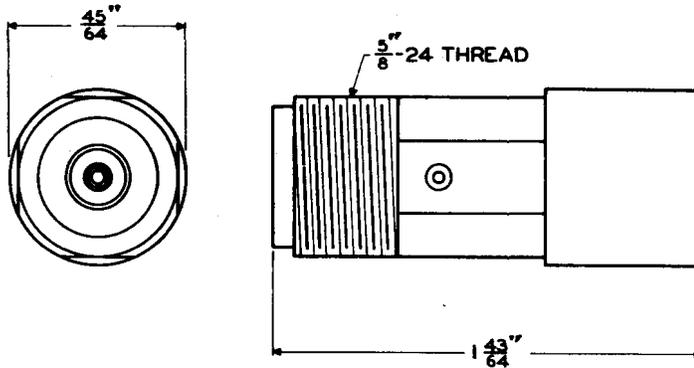
COAXIAL JACKS

MISCELLANEOUS GOVERNMENT TYPES

KS-14318 Jack

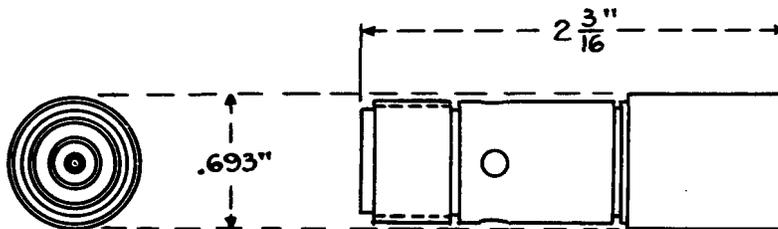
<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-14317	3,000 a-c	3,000 a-c		none		

KS-14318 is used for operation up to a 3,000-volt peak at an altitude of 9,000 feet and in ambient temperatures between -40F and +125F. Silver-plate finish. It is used for modification of 30- and 35-type cable terminals for high-voltage applications.



KS14983 Jack  
KS16163 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
(For KS14983) KS14317	3000 ac	3000 ac	--	none	----	Coaxial
(For KS16163) KS14317	2000 ac	2000 ac	--	none	----	.270 Diam. Coaxial

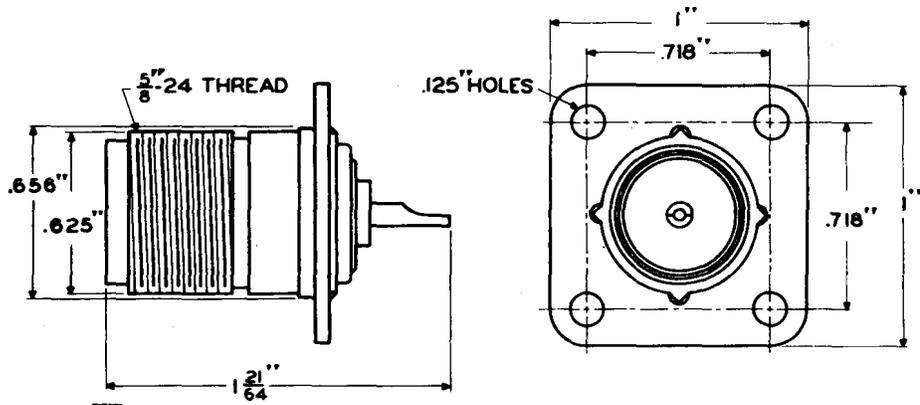


MISCELLANEOUS GOVERNMENT TYPES (Continued)

KS-14319 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-14317	3,000 a-c	3,000 a-c		none		

KS-14319 is for use with open wiring. It is used for operation up to a 3,000-volt peak at an altitude of 9,000 feet and in ambient temperatures between -40F and +125F. Silver-plate finish.

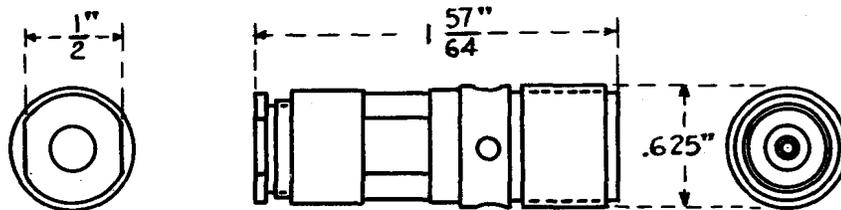


KS-14319

KS14982 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14317	3000 ac	3000 ac		none		724

Silver-plate finish.



KS14982

X-75500

COAXIAL JACKS

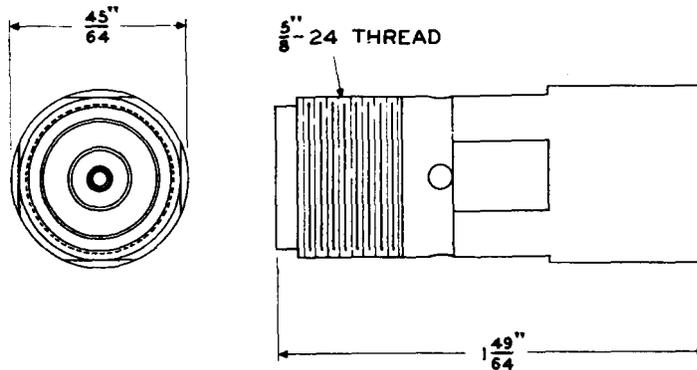
MISCELLANEOUS GOVERNMENT TYPES (Contd)

KS14405 Jack

KS16193 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14317	3,000 ac	3000 ac				

These jacks are used for operation up to a 3,000 volt peak up to an altitude of 9,000 feet above sea level and in ambient temperatures between -40° F and +125° F. They are used for connection to 41- and 42-type cable terminals and No. 209A connector. The KS16193 jack is the same as the KS14405 jack except the cable end of the center contact has a smaller hole for the center conductor of the coaxial cable.

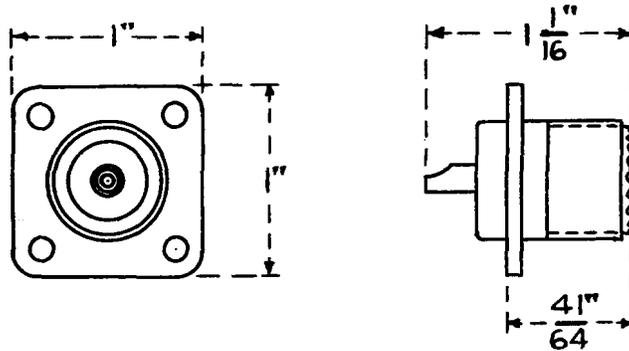


MISCELLANEOUS GOVERNMENT TYPES(Contd)

KS14615 Receptacle

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14207	2000 ac	2000 ac		none		

Silver-plate finish. Used with open form wiring.

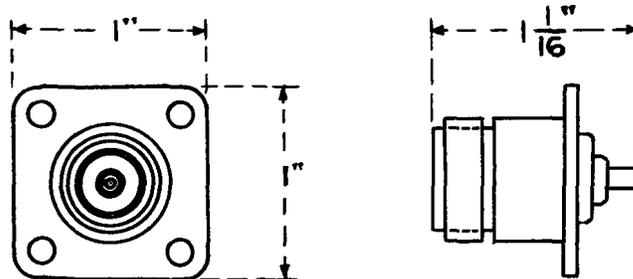


KS14615

KS14718 Jack

<u>Associated Plug</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>

Silver-plate finish. Used with open form wiring.



KS14718



X-75500

COAXIAL ADAPTERS AND CONNECTORS

7-15-52

III-31

# COAXIAL ADAPTERS AND CONNECTORS

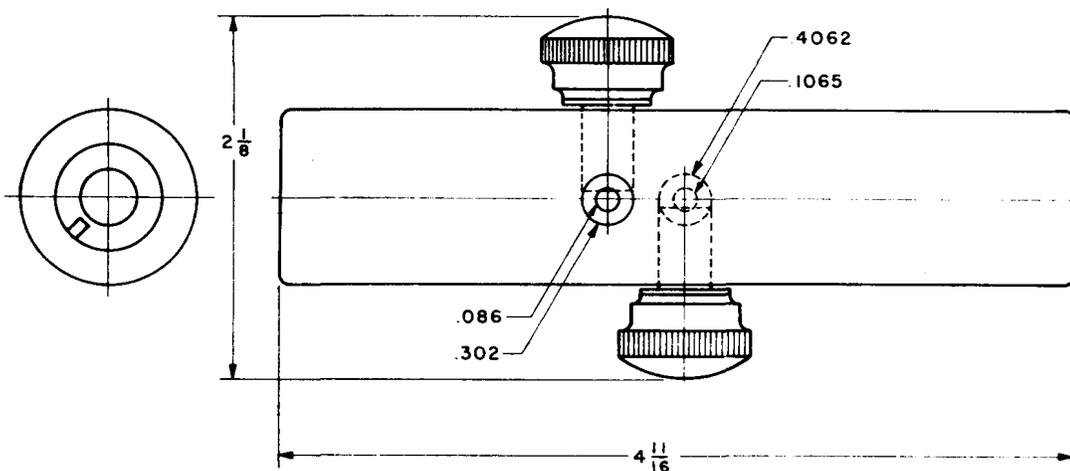
## Nos. 206A, B, and C Connectors

These connectors consist of a shell of insulating material with a hole at one end for a No. 337 or similar type plug. Electrical connection is made to the center conductor of the plug but not to the outer conductor. A bushing is provided at the other end, for connecting a cord to the center coaxial contact as follows:

<u>Code</u>	<u>Material of Bushing</u>	<u>Used In</u>
206A	brass	W2DD Cord
206C	insulating material	W1AJ Cord

Holes and associated thumbscrews are provided for attaching center conductors of 0.375 or 0.0270 disc-insulated coaxial cable or connecting 30-, 31-, or 35-type cable terminals.

The 206B is the same as the No. 206A except it has a red band around the shell.



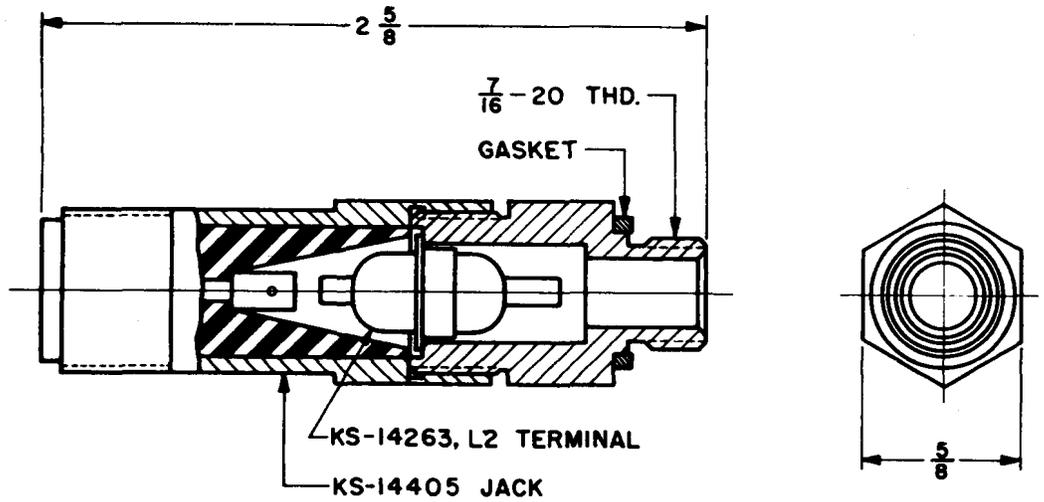
No. 206A, B, and C

No. 209A Connector

This is intended primarily for use in converting L1 Coaxial Systems to L3 Coaxial Systems.

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>
30C and 35C Cable Terminals	5,000 ac

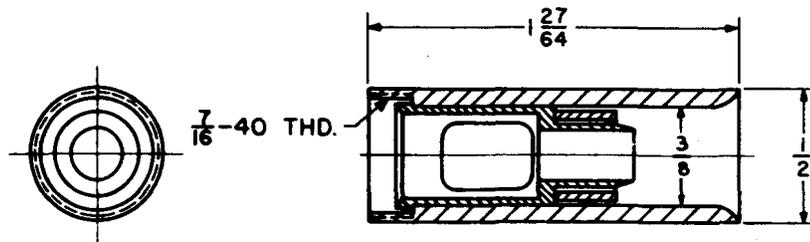
Will withstand without leakage an internal gas pressure of 25 pounds per square inch.



No. 209A

No. 210A Connectors

Metal connector for connecting a No. 724 cable to a No. 207A Terminal. (The terminal mounts in a 0.448 hole in a panel.) The connector is arranged for solderless connection to the shield of the cable. A nut is provided for locking the connector to the terminal.



No. 210A

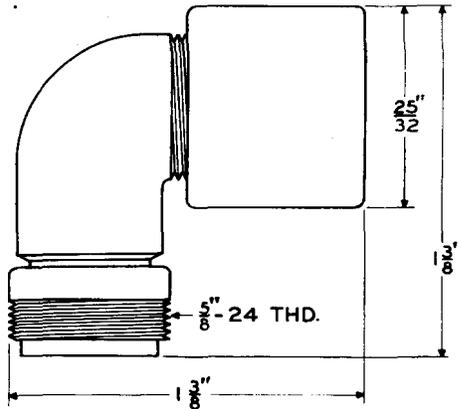
X-75500

COAXIAL ADAPTERS AND CONNECTORS

KS-13734 Adapter

<u>Associated Apparatus</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>
KS-13733 Jack	1,000 a-c	500 a-c	50 ohms	N	UG-27A/U
KS-13732 Plug					

KS-13734 is a 90-degree adapter, connecting at one end to 50-ohm plug and at the other end to a 50-ohm jack. Silver-plate finish.

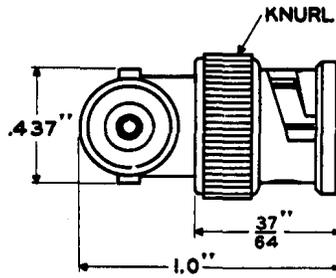
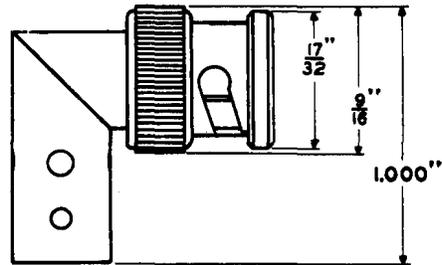


KS-13734

KS-13900 Adapter

<u>Associated Apparatus</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>
KS-13739 Jack KS-13737 Plug	--	500 a-c	not constant	BNC	UG-306/U

KS-13900 is a 90-degree adapter connecting to a plug at one end and a jack at the other end. Silver-plate finish.



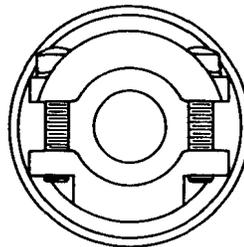
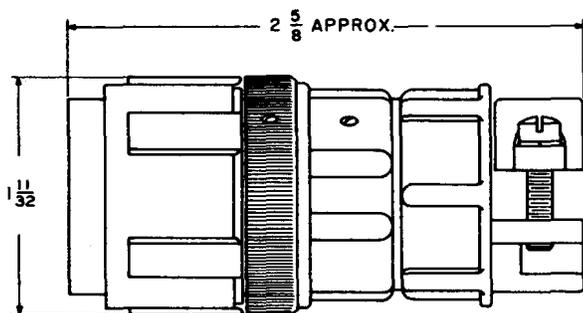
KS-13900

I-75500

# COAXIAL ADAPTERS AND CONNECTORS

## KS-13836 Connectors

The KS-13836 List 1 and List 2 connectors are used as component parts of the W2DF and W2DG Cords in the "L" Carrier System. These are single contact coaxial plugs. List 1 and List 2 are the same except List 1 has a red lacquer band around the plug shell. Coupling end will engage one 0.081 contact, coupling has 1-1/8-18 (internal) thread. Clamp end will take 5/8-inch maximum cable.

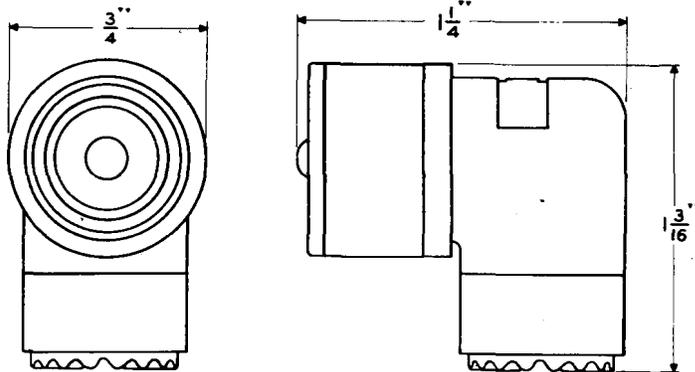


KS-13836

KS-14206 Adapter

<u>Associated Apparatus</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>
KS-14207 UG-223/U	2,000 a-c	500 a-c	not constant	UHF	

KS-14206 is a 90-degree adapter connecting to a plug at one end and to a jack at the other. Silver-plate finish.

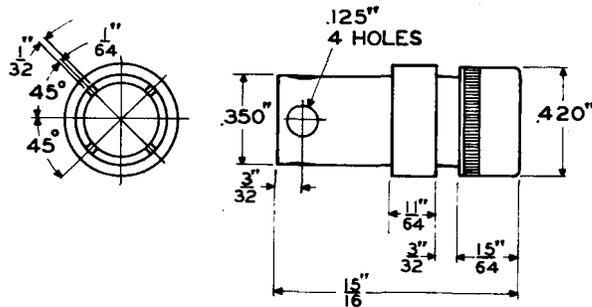


KS-14206

KS-14432 Adapter

<u>Associated Apparatus</u>	<u>Test Voltage</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>
724 Cable KS-14207 Plug	--	--	--	--	UG-173/U

This is a straight adapter for connecting No. 724 cable to a KS-14207 plug. Silver-plate finish.



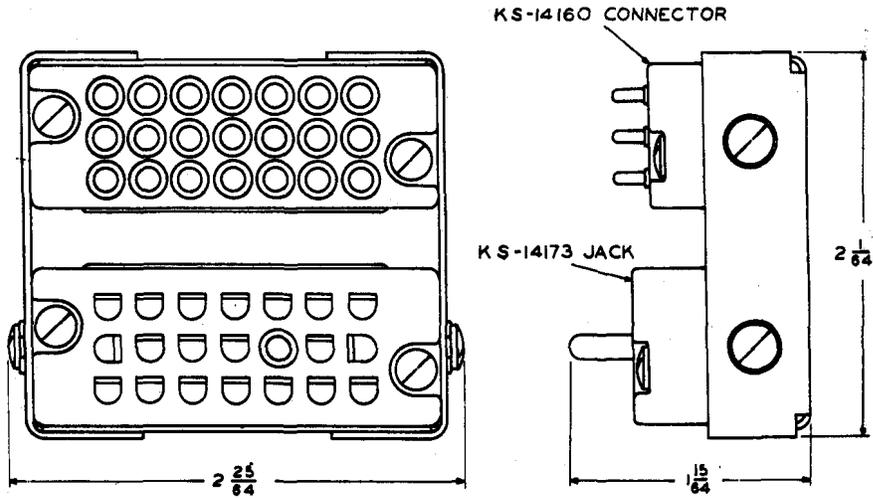
KS-14432

X-75500

# COAXIAL ADAPTERS AND CONNECTORS

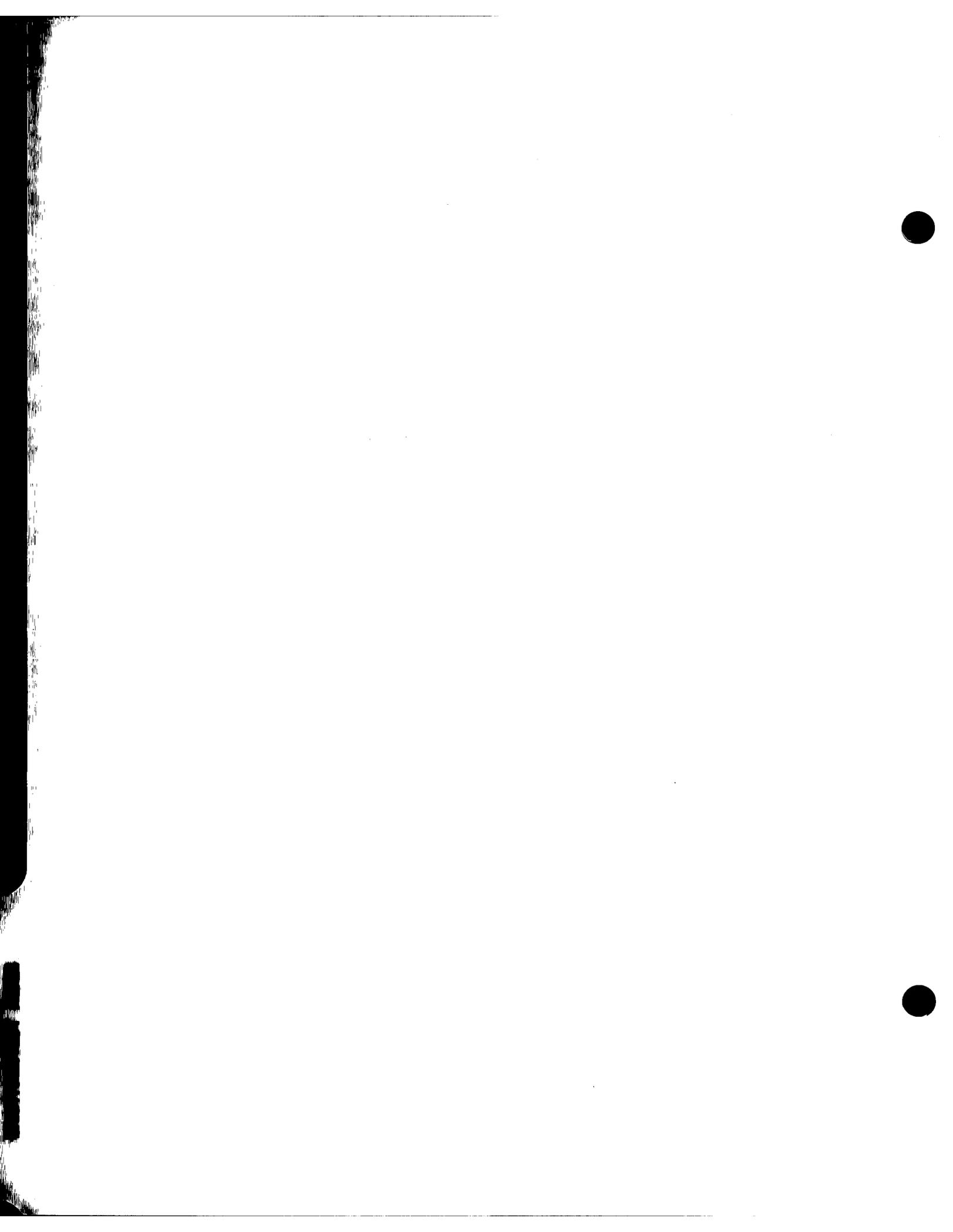
## KS-14467 Adapter

The KS-14467 adapter consists of the KS-14160 connector and a KS-14173 jack mounted on a common mounting plate and covered on the rear by a common cover.



KS-14467





SECTION IV

MULTICONTACT JACKS

X-75500

7-15-52

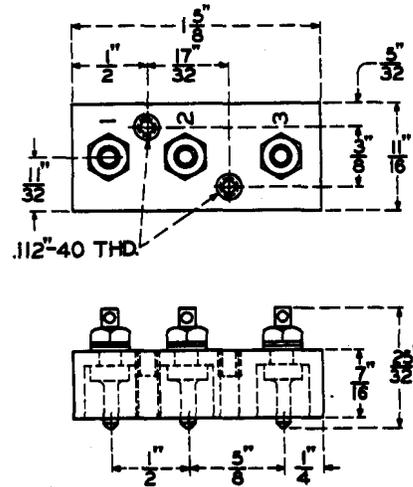
IV-1

# MULTICONTACT JACKS

## Three Contacts

### (P) No. 451A Jack

The No. 451A jack is used with the No. 306-type plug. It consists of an insulating block provided with three prongs, each having one end used as a terminal.



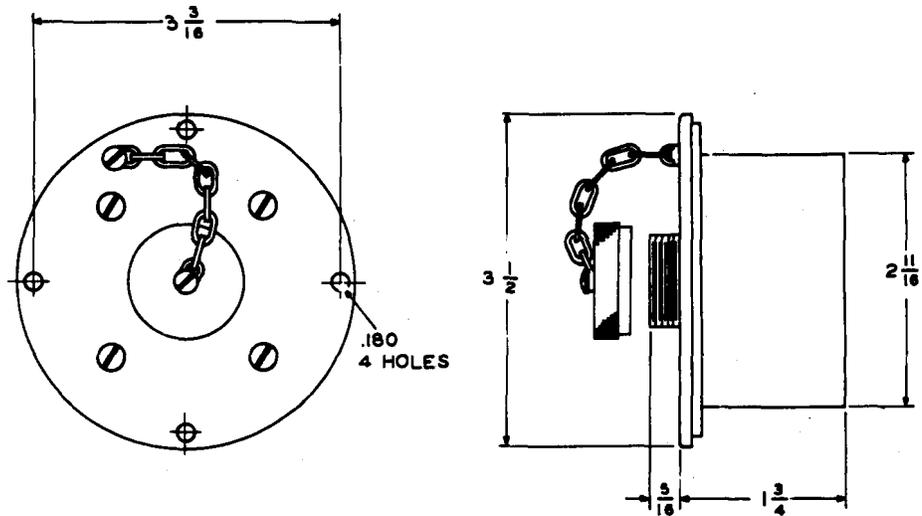
No. 451A

### Note:

(P) Preferred Code.

Three Contacts (Continued)KS-8420 Jack

The KS-8420 Jack is a flush-type 3-conductor jack used as an outlet for central office lines or for telephone sets installed on boats or auto-trailers. A hole for wiring is provided in the bottom. It is for use with KS-8419 plugs.



KS-8420

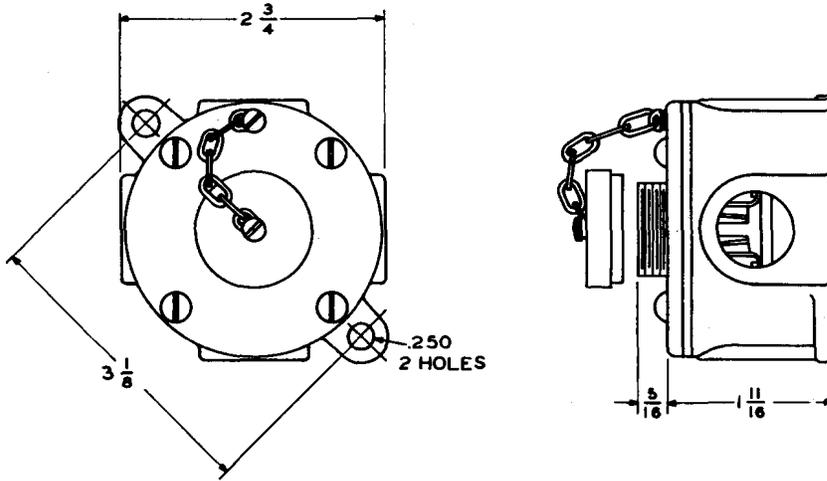
X-75500

MULTICONTACT JACKS

Three Contacts (Continued)

KS-8421 Jack

The KS-8421 jack is a surface-type 3-conductor jack used as outlet for central office lines or for telephone sets installed on boats or auto-trailers. It is used with KS-8419 plugs.

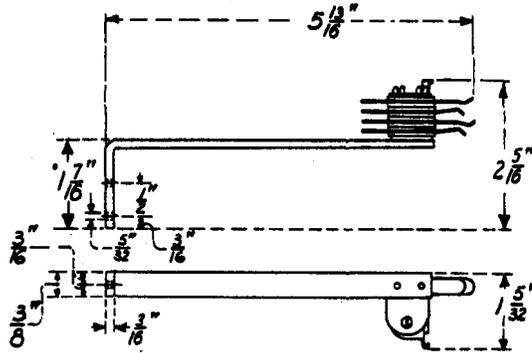


KS-8421

Four Contacts

(P) No. 328 Jack

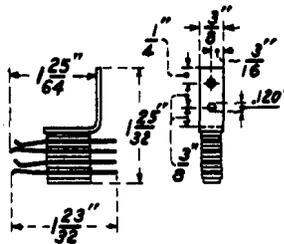
The No. 328 jack is intended primarily for use on the No. 931 mounting plate in connection with repeaters in step-by-step machine switching systems. It is arranged for use with No. 240-type plug.



No. 328

(P) No. 348 Jack

The No. 348 jack consists of a metal bracket on which are mounted two pairs of contact springs insulated from each other. It is used with No. 240-type plug. This jack is designed to mount apparatus pawl used on No. 933C or similar type mounting plates. Intended primarily for terminating test or switchman's talking lines in step-by-step machine switching systems.



No. 348

Note:

(P) Preferred Code.

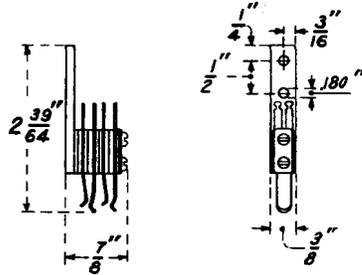
X-75500

# MULTICONTACT JACKS

## Four Contacts (Continued)

### (P) No. 349A Jack

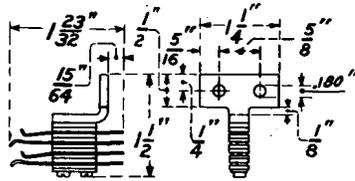
The No. 349A jack is designed to mount on the framework of line switchboards. It consists of a metal bracket in which are mounted two pairs of contact springs insulated from each other. It is intended primarily for terminating test or switchman's talking lines in step-by-step machine switching systems. This jack is used with No. 240-type plug.



No. 349A

### (P) No. 350A Jack

The No. 350A jack is designed to mount on shelf framework used for mounting wired assemblies. It consists of a metal bracket on which are mounted two pairs of contact springs insulated from each other. This jack is intended primarily for terminating test or switchman's talking lines in step-by-step machine switching systems. The No. 350A jack is used with No. 240-type plug.



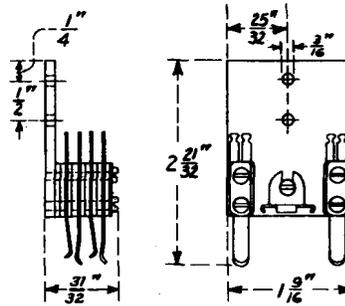
No. 350A

### Note:

(P) Preferred code.

Four Contacts (Continued)No. 356A Jack

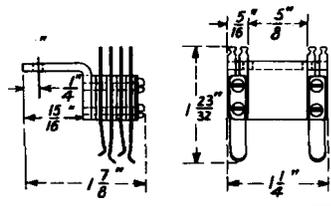
The No. 356A jack is intended for use with No. 240-type plugs in connection with switchman's talking line circuit in step-by-step systems. It is provided with number plate holder



No. 356A

(P) No. 357A Jack

The No. 357A jack is used with No. 240-type plug-in connection with switchman's talking line circuit in step-by-step systems.



No. 357A

Note:

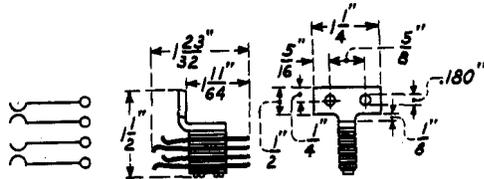
(P) Preferred code.

# MULTICONTACT JACKS

## Four Contacts (Continued)

### (P) No. 366 Jack

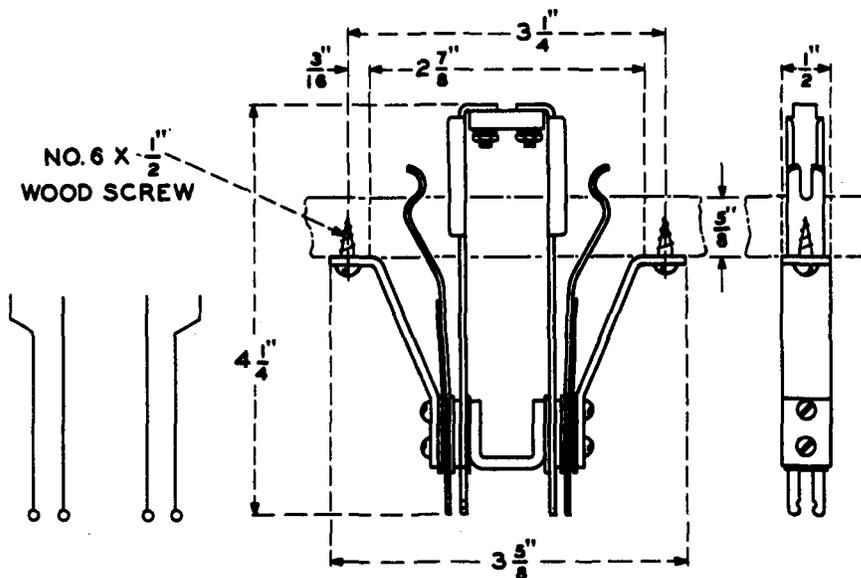
The No. 366 jack is for use on the No. 202A jack mounting in repeater circuits in step-by-step dial systems. It is used with No. 240-type plug.



No. 366

### (P) No. 401A Jack

The No. 401A jack is intended for use in patching cord test set. It is used with No. 252 or similar type plug.



No. 401A

### Note:

(P) Preferred code.

Four Contacts (Continued)

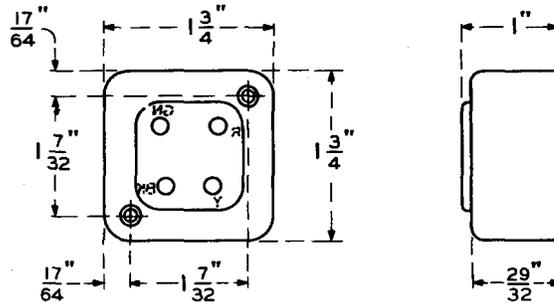
No. 404B Jack

The No. 404B jack is a nonflush type jack for use with portable tele-  
phones at subscriber stations for 2-, 3-, or 4-wire service. It is used  
with No. 283-type plug.

The dash number indicates color of jack.

404B-4 - Ivory

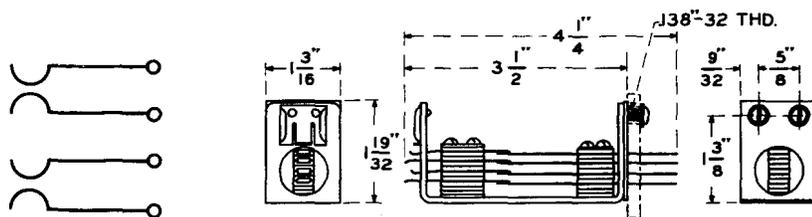
404B-9 - Brown



No. 404B

No. 439A Jack

The No. 439A jack is used with No. 240-type plug. It is intended for  
mounting on No. 600-type mounting plate. This jack is equipped with a  
number plate holder and will mount on 7/8" horizontal and 5/8" vertical  
centers.



No. 439A

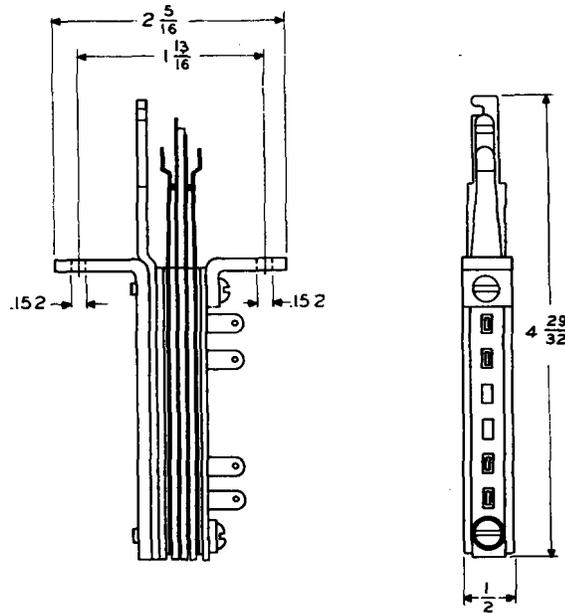
X-75500

# MULTICONTACT JACKS

## Four Contacts (Continued)

### No. 452A Jack

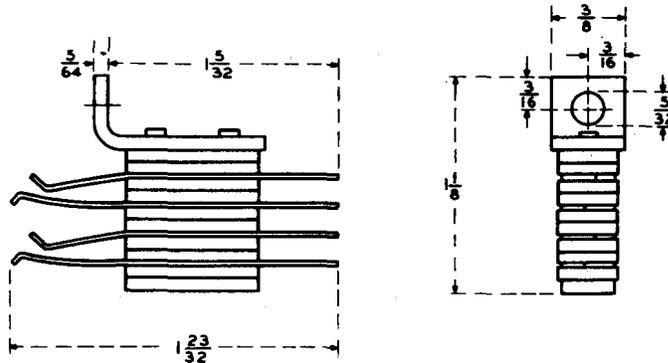
The No. 452A jack is a singly mounted jack used in the panel of the patching cord test set. It has four contact springs arranged in pairs. The springs in each pair are in contact with each other until a plug is introduced. It is used with the Nos. 301- and 319-type plugs.



No. 452A

Four Contacts (Continued)(P) No. 467A Jack

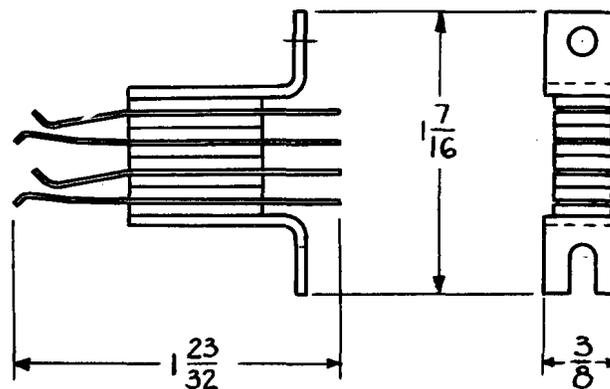
The No. 467A is used with No. 240-type plug on universal switch shelves in step-by-step dial telephone systems. It is mounted on Nos. 229-type or 230A terminal strip.



No. 467A

(P) No. 506A Jack

The No. 506A jack is used with No. 240-type plugs on selector and connector shelf equipment in step-by-step telephone systems.

**Note:**

506A

(P) Preferred code.

# MULTICONTACT JACKS

## Four Contacts (Continued)

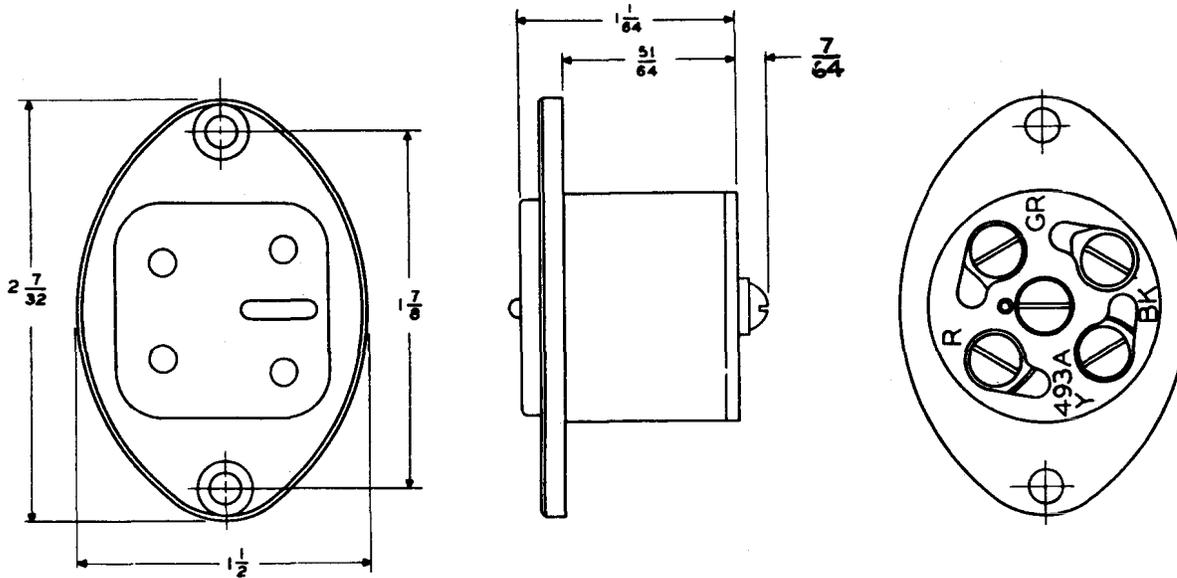
### No. 493A Jack

The No. 493A jack is a four contact, flush-mounted jack. It is used with the No. 283-type plug in connection with portable telephone sets having two, three, or four conductor mounting cords.

The dash number indicates color of jacks.

493A-4 - Ivory

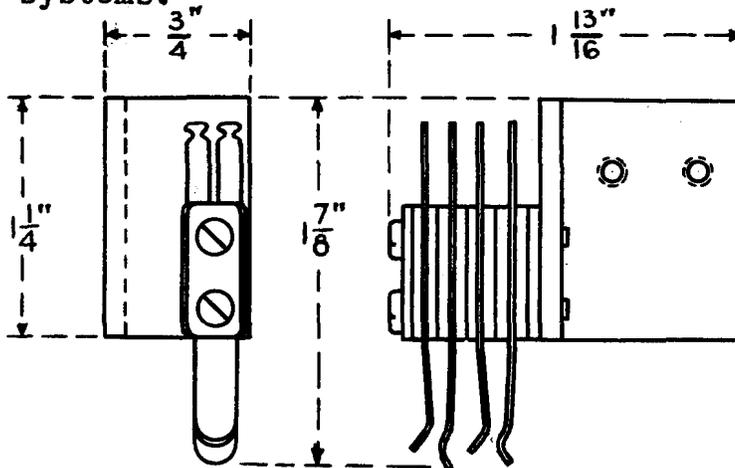
493A-9 - Brown



No. 493A

### (P) No. 502A Jack

The No. 502A jack is used with the No. 240-type plugs in step-by-step systems.



502A

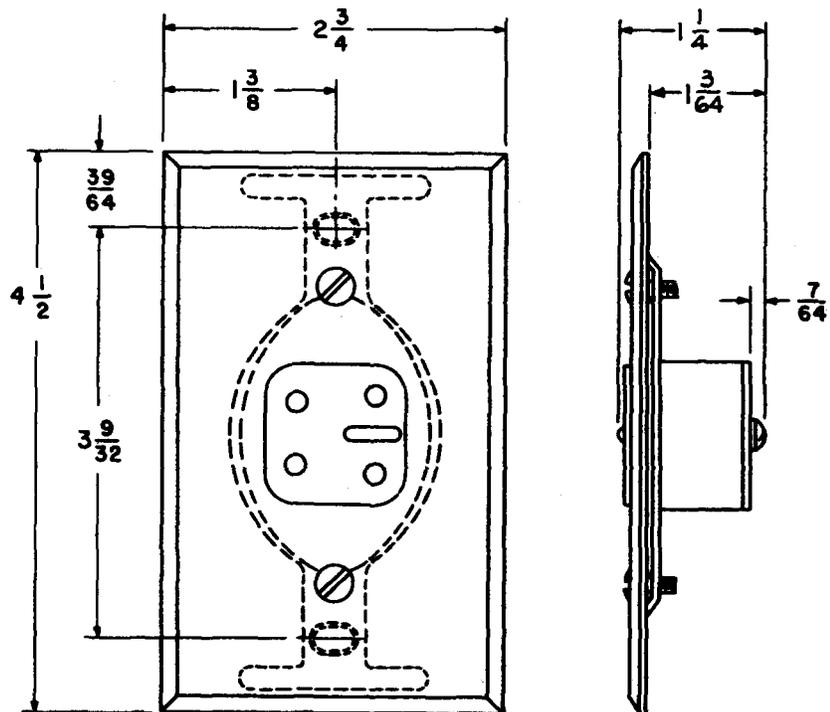
Four Contacts (Continued)No. 497A Jack

This is a flush-type jack arranged for mounting in standard outlet boxes having  $3\frac{9}{32}$ -inch mounting centers. It is intended for use in connection with portable telephones on subscriber premises and takes care of 2-, 3-, or 4-wire service requirements. Each jack consists of a No. 493A Jack, a No. 43A Bracket and a colored mounting plate, furnished as loose parts. It is used with the No. 283-type plug.

The dash number indicates color of jack

497A-4 - Ivory

497A-9 - Brown



No. 497A

X-75500

MULTICONTACT JACKS

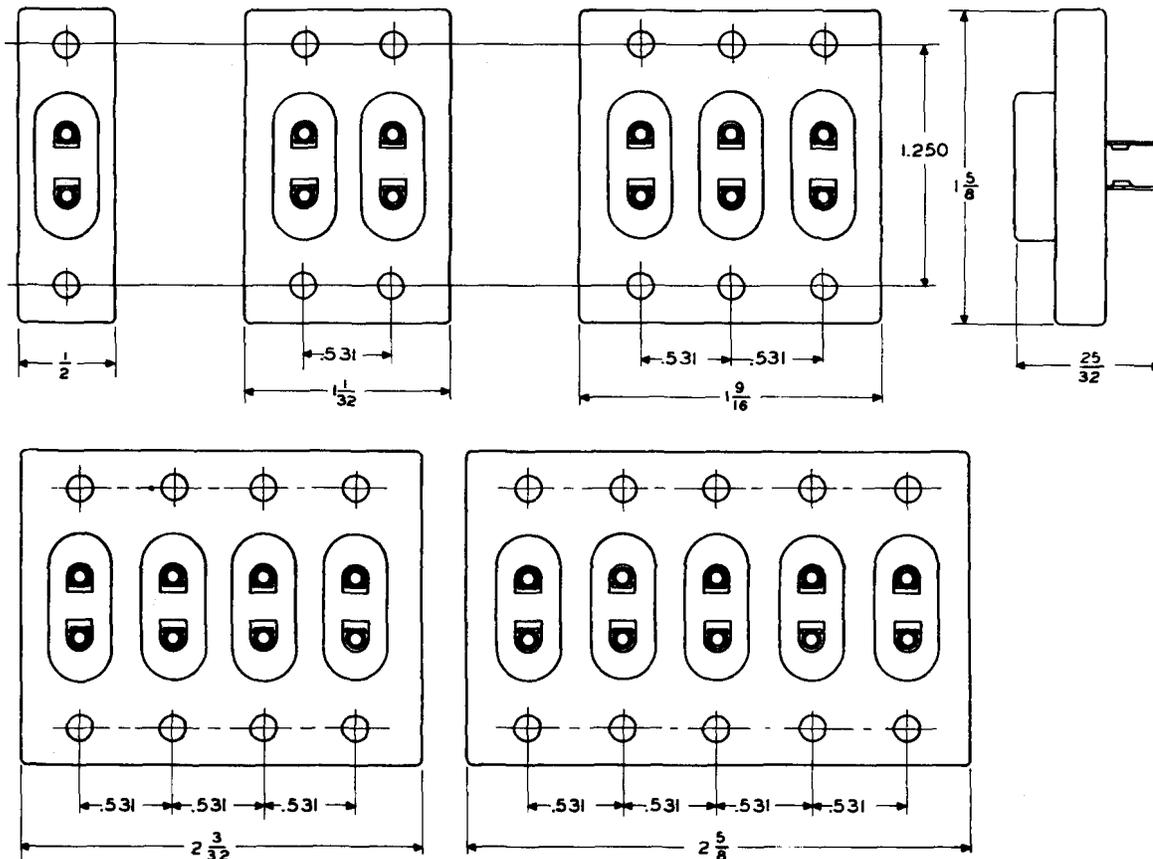
Four Contacts (Continued)

KS-14519 Jack

The KS-14519 jacks, Lists 1 to 5 inclusive, are used with the KS-14520 plug.

<u>List No.</u>	<u>Contacts</u>	<u>Dimension A</u>
1	2	1/2
2	4	1-1/32
3	6	1-9/16
4	8	2-3/32
5	10	2-5/8

The test voltage is 500 volts alternating current. The jacks have gold-plated female contacts.



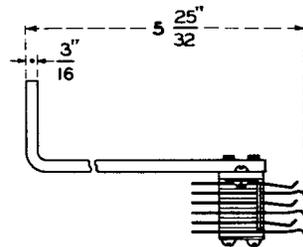
KS-14519

Six Contacts

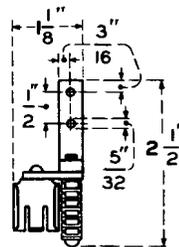
Nos. 384A, B, and C Jacks

Each spring pile-up for the Nos. 384A, B, and C jacks is arranged for a No. 240-type plug, intended for use in Nos. 161-, 931-, 961-, and 986-types and similar mounting plates in dial systems. Springs are insulated from each other and arranged in pairs.

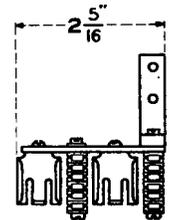
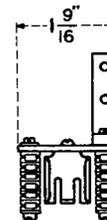
	<u>Number of Spring Pile-up</u>	<u>Number of Number Plate Holders</u>	<u>Number of Contact Springs</u>
(P) No. 384A	1	1	6
384B	2	1	12
(P) 384C	2	2	12



No. 384A



No. 384B



No. 384C

Also General Design and Dimensions  
of 384 Type

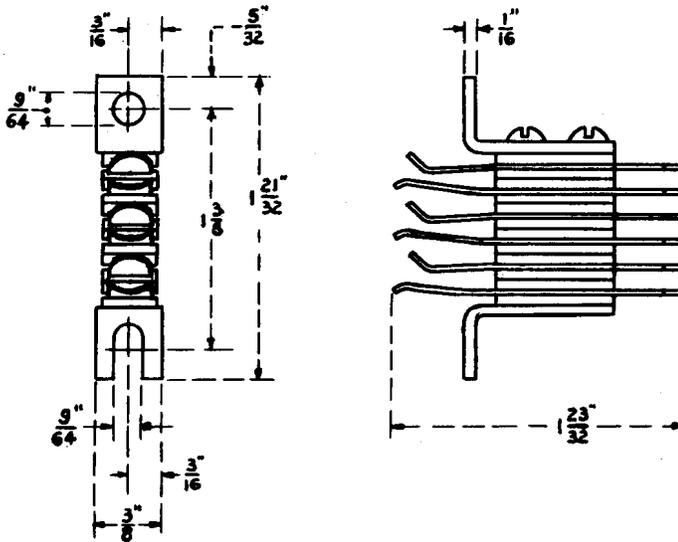
X-75500

MULTICONTACT JACKS

Six Contacts (Continued)

(P) No. 395A Jack

The No. 395A jack has three pairs of contact springs insulated from each other. It is for use in repeater circuits in dial systems. It is used with No. 240-type plug and mounts on 1-1/2-inch horizontal centers.



No. 395A

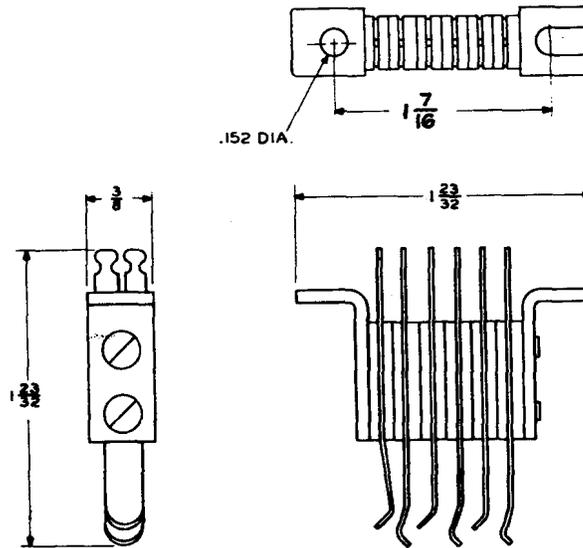
Note:

(P) Preferred code.

Six Contacts (Continued)

No. 395B Jack

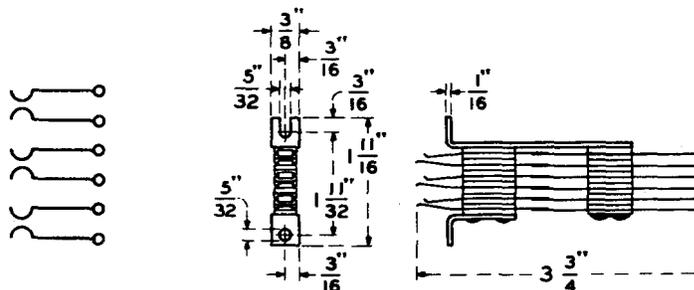
The No. 395B jack has three pairs of contact springs insulated from each other. It is used with No. 240-type plug.



No. 395B

No. 447A Jack

The No. 447A jack will mount on 1-1/2-inch horizontal and 1-3/4-inch vertical centers. It is used with No. 240-type plug.



No. 447A

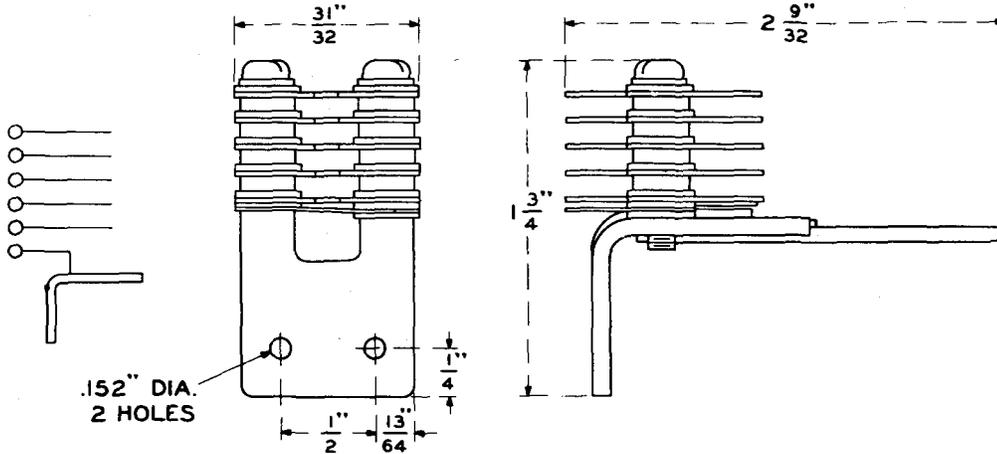
X-75500

# MULTICONTACT JACKS

## Six Contacts (Continued)

### No. 455A Jack

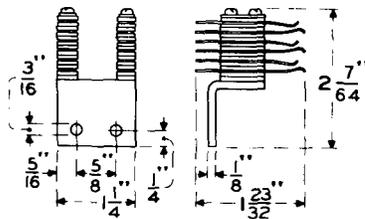
The No. 455A jack is used in patching cord test set for testing cords equipped with No. 351-type plug in crossbar dial systems.



No. 455A

### No. 459A Jack

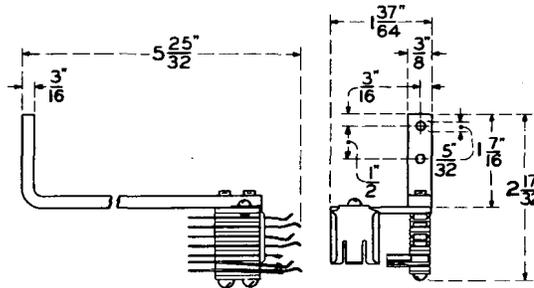
The 459A jack is used on equipment frames of step-by-step dial systems. It is for use with No. 240-type plug. It consists of a metal bracket on which are mounted six pairs of contact springs insulated for each other and arranged in two pile-ups of three pairs each.



No. 459A

Six Contacts (Continued)(P) No. 463A Jack

The No. 463A jack is intended to mount on mounting plates in step-by-step systems. Equipped with three pairs of contact springs, one pair of which when the plug is inserted operates a make and break contact. The springs are insulated from each other. It is used with No. 240-type plug.



No. 463A

X-75500

Note:

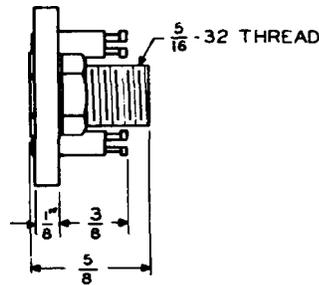
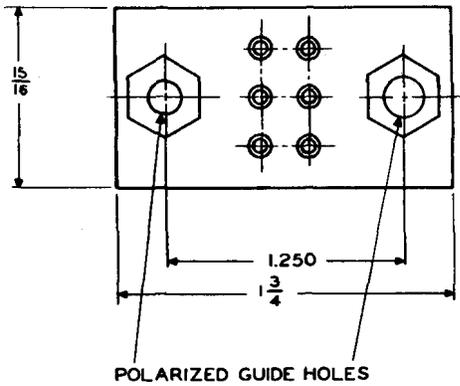
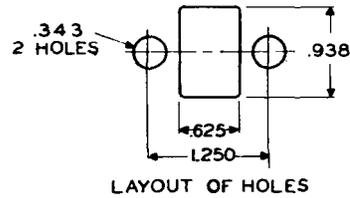
(P) Preferred Code.

MULTICONTACT JACKS

Six Contacts (Continued)

KS-14298 Connector

The KS-14298 connector is used with the KS-14297 connector. It has six silver-plated beryllium-copper female contacts, rated at 5 amperes each. It mounts on panel by means of two 5/16-32 studs.



KS-14298

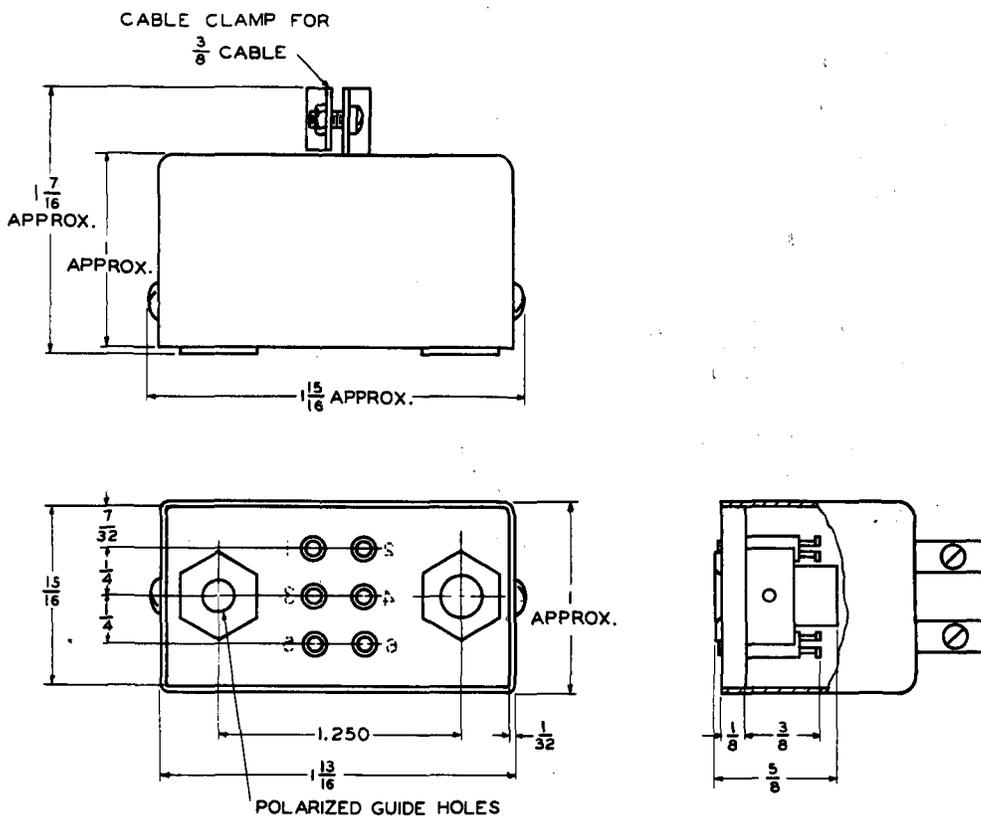
Note:

(P) Preferred Code.

Six Contacts (Continued)

KS-14340 Connector

The KS-14340 connector is used with the KS-14297 connector. It has six silver-plated beryllium-copper female contacts, rated at 5 amperes each. It is similar to the KS-14298 connector except it has a cover. The KS-14340 connector is intended for use on patching cords.



KS-14340

KS-14519, L3 Jack

For information, see page 14.

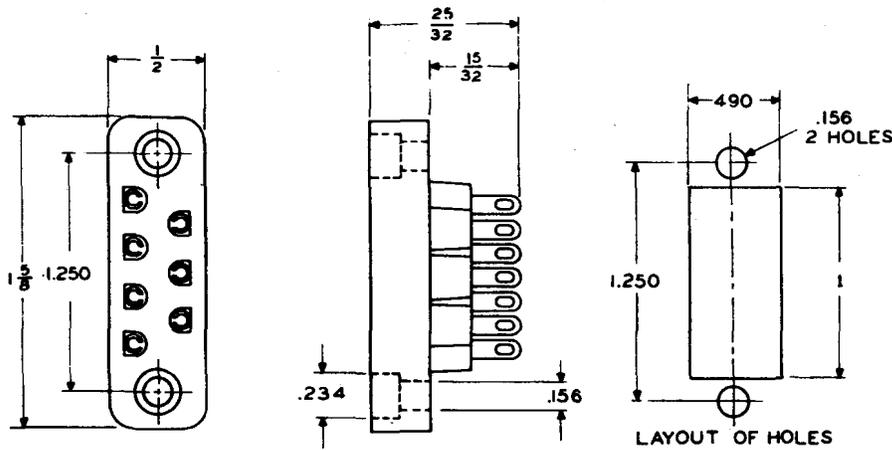
X-75500

# MULTICONTACT JACKS

## Seven Contacts

### KS-14528 Connector

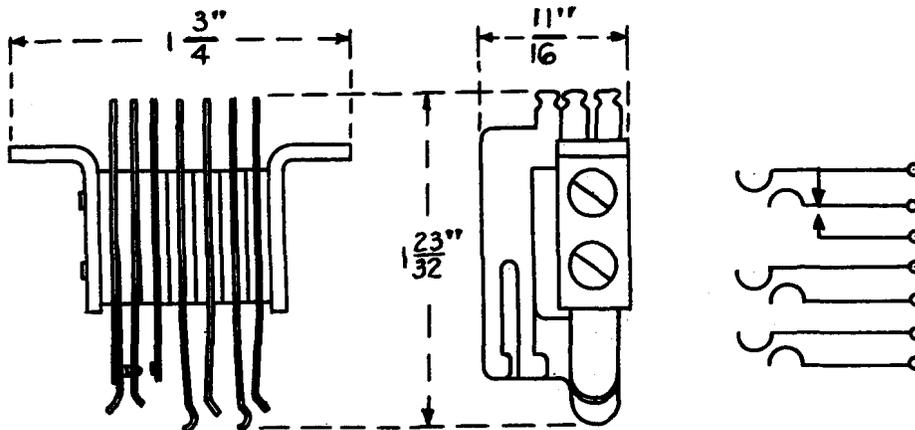
The KS-14528 connector, List 1 is used with the KS-14527 connector, List 1. It has seven gold-plated phosphor-bronze floating female contacts. The test voltage is 500 volts after rating current.



KS-14528

### (P) 501A Jack

The 501A jack is intended for use as a rotary out trunk switch test jack in step-by-step telephone systems. It is used with 240-type plugs and will mount on one inch centers.



501A

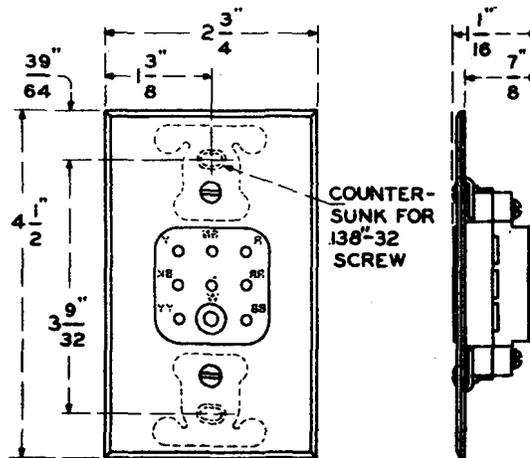
Eight Contacts

No. 391A Jack

The No. 391A jack is an eight contact jack for use in 755A PBX subscriber stations for terminating telephone circuits. It is used with No. 274-type plug. The dash number indicates the color of the jacks.

391A-4 - Ivory

391A-9 - Brown



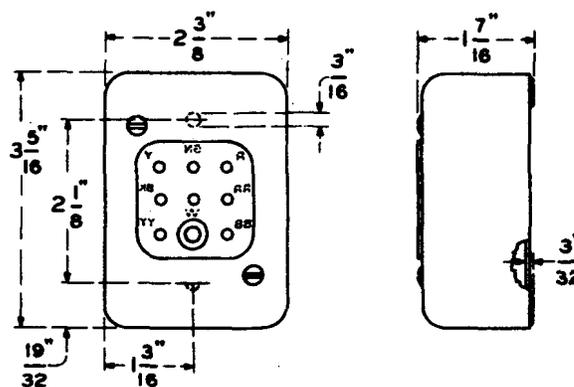
No. 391A

No. 392A Jack

The No. 392A jack is an eight contact jack for use in 755A PBX subscriber stations for terminating telephone circuits. It is used with No. 274-type plug. The dash number indicates the color of the jacks.

392A-4 - Ivory

392A-9 - Brown



No. 392A

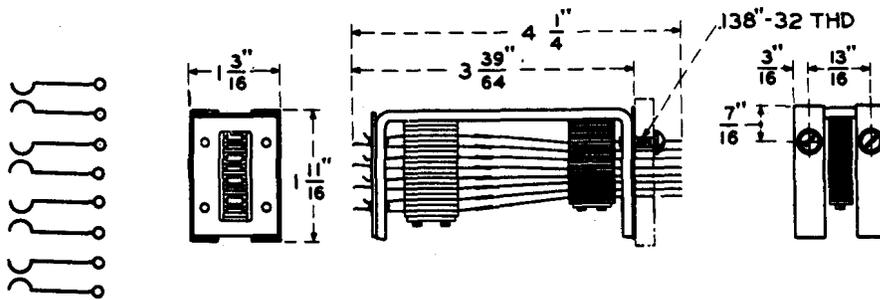
X-75500

# MULTICONTACT JACKS

## Eight Contacts (Continued)

### No. 448A Jack

The No. 448A jack will mount on 1-1/4-inch horizontal and 1-3/4-inch vertical centers. It is used with No. 240-type plug. The contact springs are arranged in pairs and are insulated from each other.



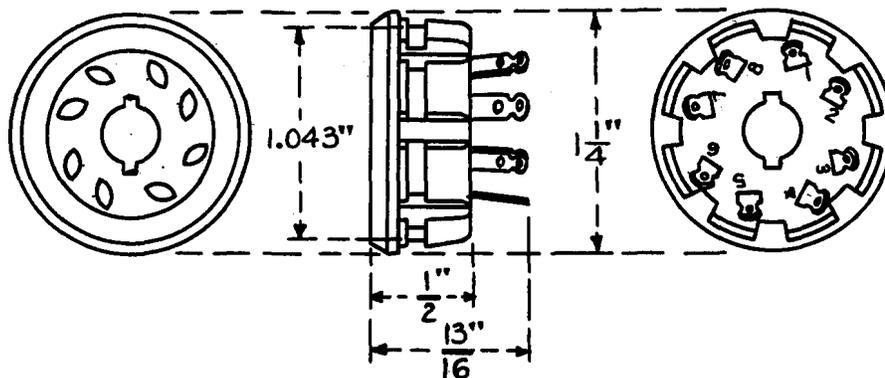
No. 448A

### KS-14519, 14 Jack

For information, see page 14.

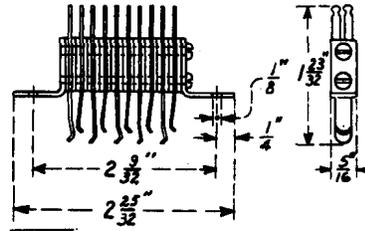
### KS14533 Socket

The KS14533 socket is primarily intended to mount the 529-type filter. It has eight silver-plated phosphor bronze wrap-around-type contacts equally spaced on an 11/16-inch diam. circle. It is not intended to accommodate an electron tube but is to be used with a standard octal-type tube base which may be inserted in one of two positions. One position is standard and the other is diametrically opposite. Arranged to mount on a 3/64 inch or 1/16 inch thick plate and held in place by means of a steel mounting ring.



Ten ContactsNo. 354 Jack

The No. 354 jack is intended for use with the No. 240-type plug in the test set of the rotary test circuit of step-by-step dial systems. The contact springs are arranged in pairs and are insulated from each other.



No. 354

KS-14519 L5 Jack

For information, see page 14.

X-75500



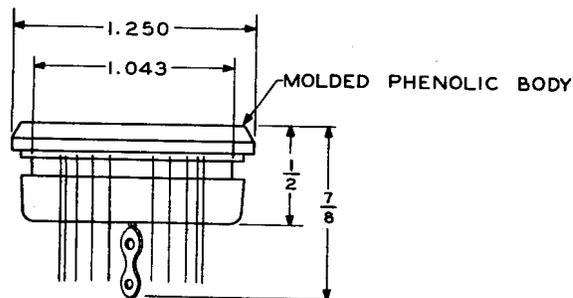
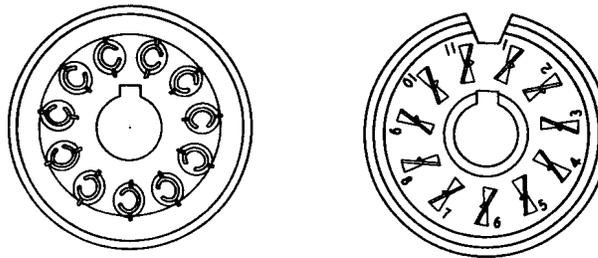
Eleven Contacts

KS-13930 Socket

The KS-13930 sockets are primarily intended to mate with the KS-13915 and 360-type plugs and, when assembled on a 218A, 219A, or 220A mounting plate, to mate with the plugs of the J68647A voice frequency amplifiers. They have eleven silver-plated wrap-around-type contacts equally spaced on a 3/4-inch diameter circle. The terminal ends of the contacts are tinned. The body has a cylindrical hold and keyway which will accommodate a pilot the same as used on octal vacuum tube bases and a groove which engages a spring steel retainer ring for mounting the socket. The socket is arranged to mount in the following thicknesses:

List No.	Thickness of Plates or chassis (Inches)
L1	0.025 to 0.040
L2	0.041 to 0.062
L3	0.080 to 0.102
L4	0.063 to 0.078
L5	0.112 to 0.125

X-75500



KS-13930

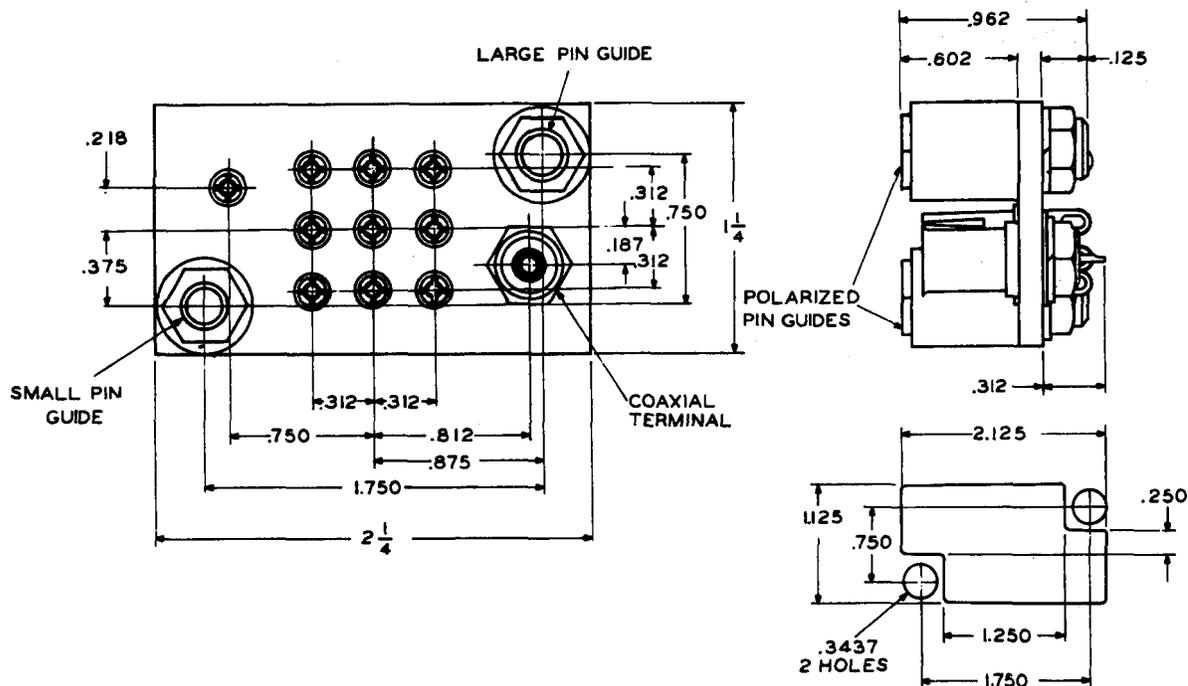
# MULTICONTACT JACKS

## Eleven Contacts

### KS-14516 Connector

The KS-14516 connector is used with the KS-14515 connector. It has ten gold-plated female contacts and one coaxial terminal. The connector mounts on 1/16-inch panel.

The test voltage is 500 volts alternating current.

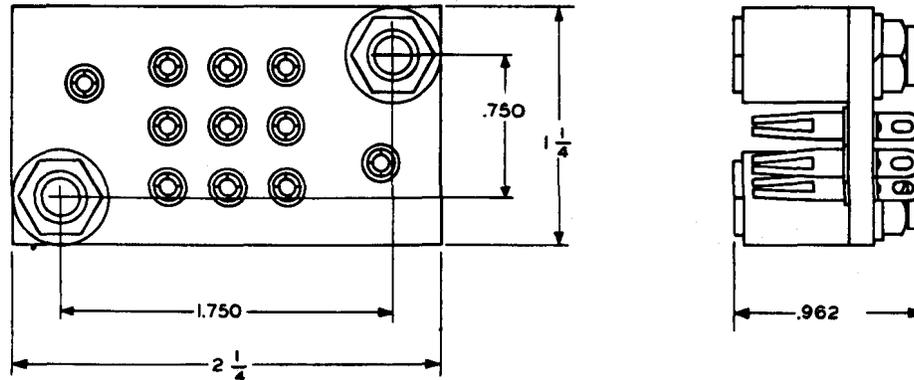


KS-14516

Eleven Contacts (Contd.)

KS-14518 Connector

The KS-14518 connector is used with the KS-14517 connector. It has eleven gold-plated female contacts and mounts on a 1/16 inch panel. The test voltage is 500 volts ac.



KS-14518

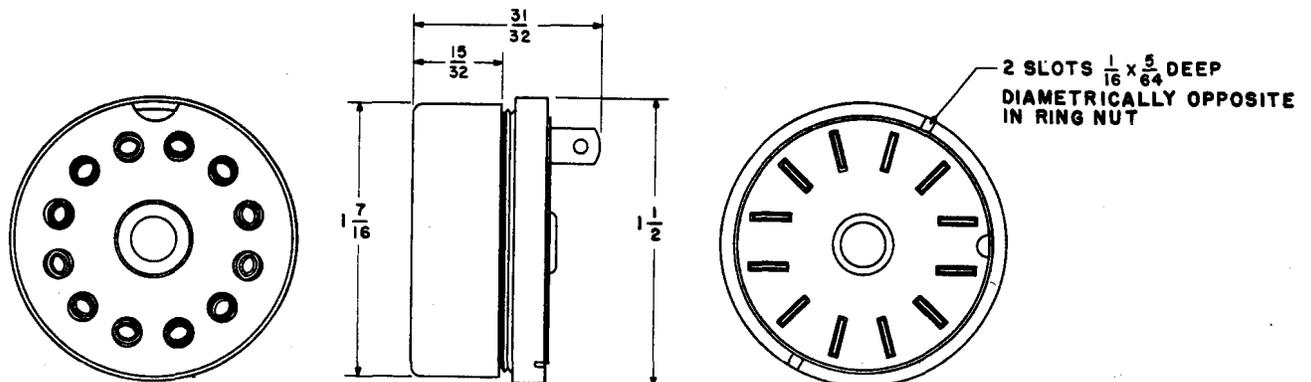
Twelve Contacts

No. 384B and 384C

For information, see page 15.

KS-8895 Plug Receptacle

The KS-8895 plug receptacle is primarily intended for use in type "J" carrier telephone line amplifiers J68748A and J68748B. It is arranged for mounting on mounting plates or panels which are not over 1/16 inch thick.



KS-8895

MULTICONTACT JACKS

Fourteen Contacts

(to 75 Contacts)

KS16409 Connectors

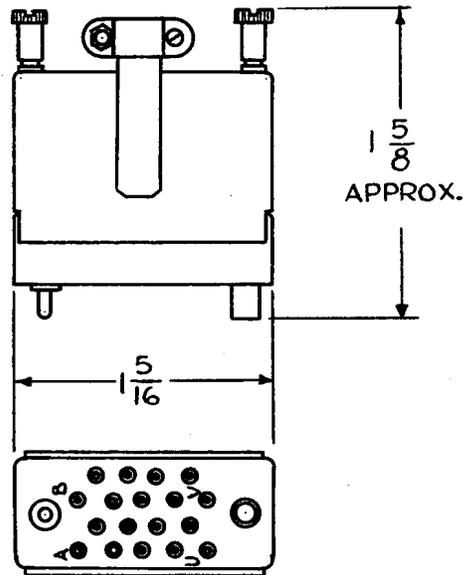
These connectors consist of a molded block of insulating material equipped with gold-plated phosphor bronze free floating female contacts. They are multi-contact (See Table A) miniature type female connectors, polarized by means of guide pins and guide pin sockets. Hoods, having screwlock mechanisms for clamping purposes and cable clamps at top or side, are supplied with List Numbers in accordance with Table A.

These connectors, primarily intended for use in the Sage System, are designed to withstand a maximum of 400 insertions. They will mate with the KS16370 connectors.

<u>List No.</u>	<u>No. of Contacts</u>	<u>Hoods</u>	<u>Screw Lock</u>	<u>Cable Clamp</u>	<u>Mtg. Plate Thickness</u>
1	14	---	---	---	1/8
2	18	---	---	---	1/8
3	18	---	---	---	1/8
4	18	Yes	Yes	Top	---
5	20	---	---	---	1/8
6	20	---	---	---	1/8
7	20	Yes	Yes	Top	---
8	21	Yes	Yes	Top	---
9	21	Yes	Yes	Side	---
10	34	Yes	Yes	Side	---
11	50	Yes	Yes	Top	---
12	50	Yes	Yes	Side	---
13	50	Yes	Yes	Side	---
14	50	---	---	---	3/32
15	75	Yes	No	Top	---
16	75	Yes	Yes	Top	---
17	75	Yes	Yes	Side	---
18	75	Yes	Yes	Top	---
19	75	---	---	---	3/32

KS16409 Connectors

(Contd.)



General Arrangement of  
KS16409 Connectors

KS16409, L3 Illustrated

# MULTICONTACT JACKS

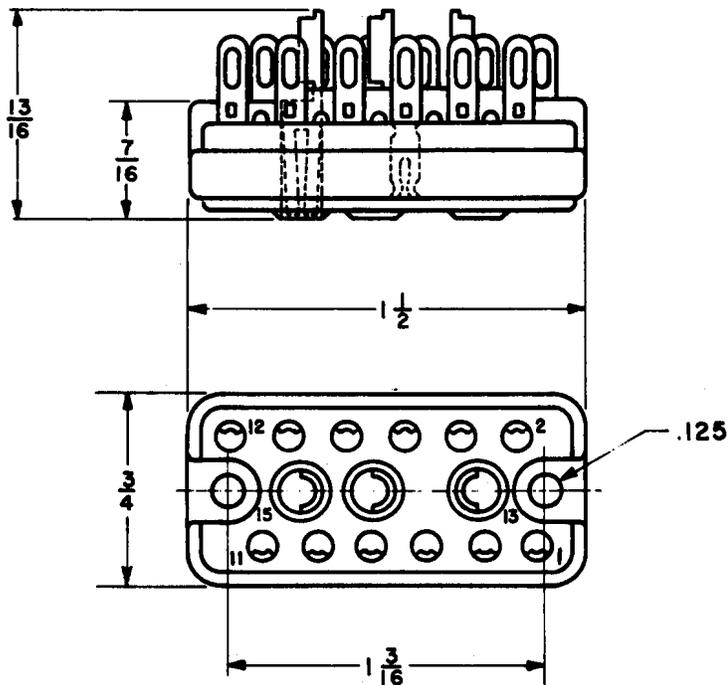
## Fifteen Contacts

### KS14525 Connector

The KS14525 connector (female) is used with the KS14524 connector (male). It is a fifteen contact miniature connector consisting of a molded block of thermosetting plastic, having gold-plated contact parts.

### KS13596 Connector

The KS13596 connector (female) is used with the KS13594 connector (male). It is a fifteen contact miniature connector consisting of a block of molded low loss phenol plastic, having gold-plated contacting parts.

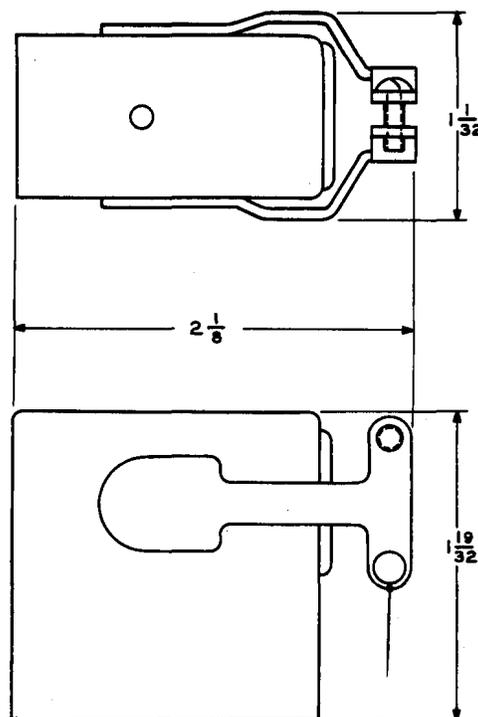


Fifteen Contacts (Contd)KS14742 Connector

The KS14742 connector is intended for use in the submaster and master group panel equipments J68829C, E,F, and G used in the L3 carrier terminal. This connector consists of a KS 14525 connector in a metal cover equipped with a cable clamp which permits the cable to enter the connector from the side. This connector mates with the KS14524,L1 connector.

KS13595 Connector

The KS13595 connector (female) consists of a KS13596 connector (female) in a metal cover equipped with a cable clamp which permits the cable to enter the connector from the side. This connector mates with the KS13594 connector (male)

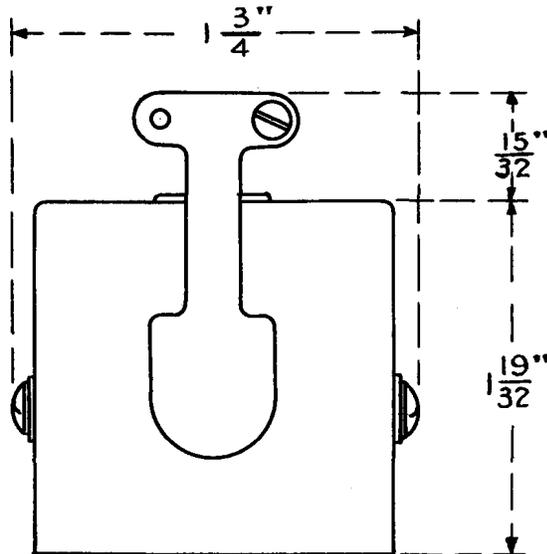


# MULTICONTACT JACKS

## Fifteen Contacts (Contd)

### KS13598 Connector

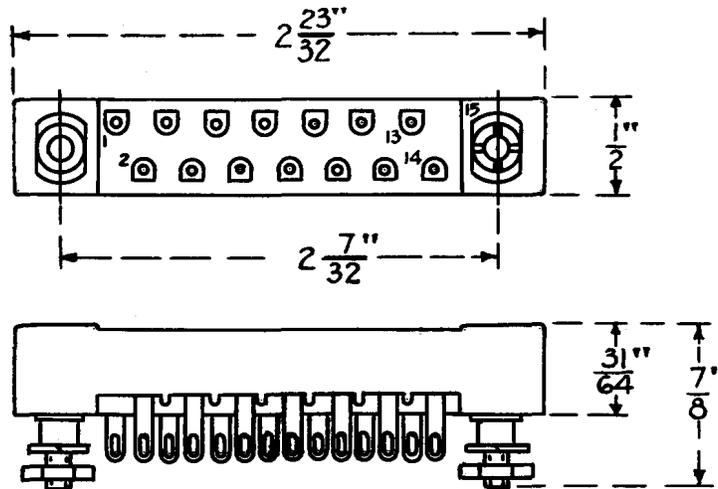
The KS 13598 connector (female) is primarily intended for use with the KS13594 connector (male). It is a 15 contact miniature connector similar to the KS13596 connector with a metal cover having a cable clamp located so as to permit the associated cable to enter the connector from the top.

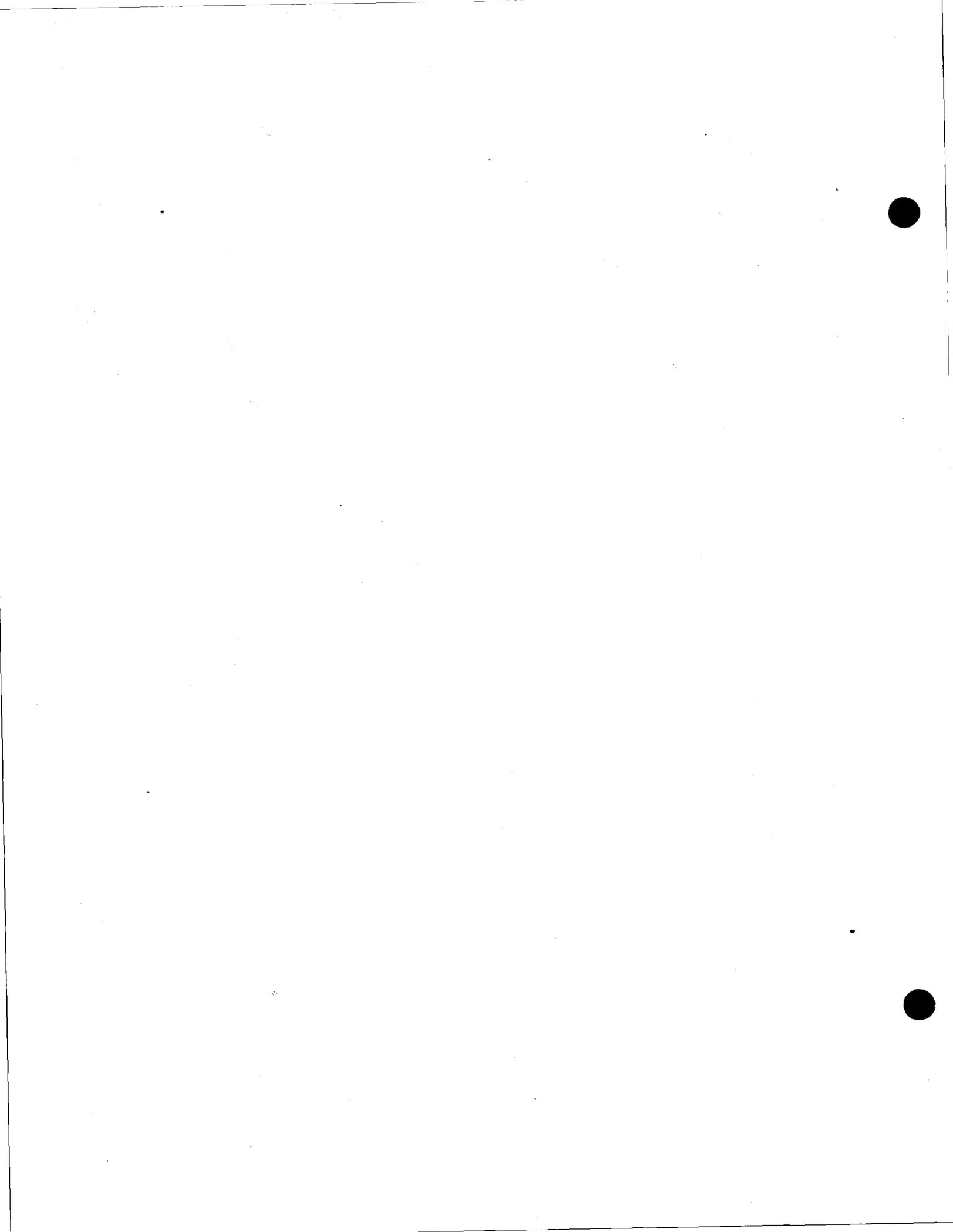


Fifteen Contacts (Contd)

KS13593 Connector

The KS13593 connector (female) is primarily intended for use with the KS13592 connector (male). It is a 15 contact miniature connector consisting of a molded low loss phenolic plastic block having gold-plated contacting parts.



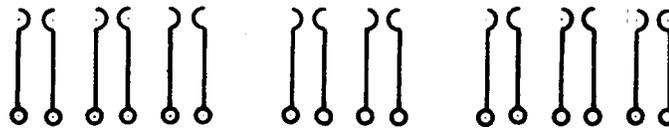
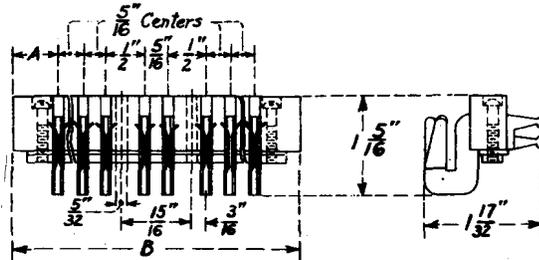


Sixteen Contacts

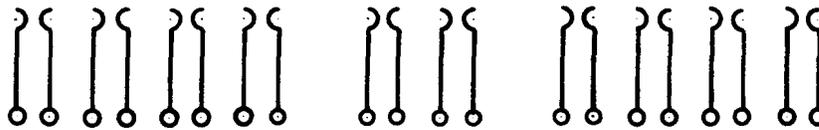
Nos. 344, 345, and 346 Jacks

These jacks are used for connecting wire assemblies of step-by-step machine switching systems. The jacks consist of wooden strips on which are mounted several pairs of contact springs which are insulated from each other. They are furnished with springs adjusted as shown in the schematics, but can be adjusted, when assembled in equipment units, so that the two springs in any or all sets of springs will make contact with each other when plug is removed.

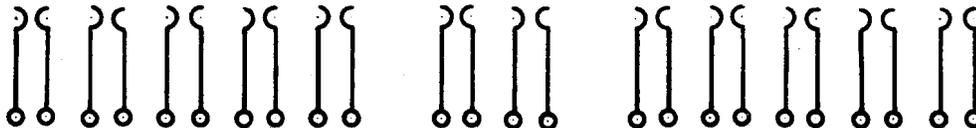
Code No.	Dimensions (Inches)		Pairs of Contacts	Used with Plug No.
	A	B		
(P)344(a)	19/32	3-3/4	8	242A
344E(b)	19/32	3-3/4	8	242A
(P)345(a)	19/32	4-3/8	10	242B
345E(b)	19/32	4-3/8	10	242B
(P)346(a)	21/64	4-15/32	12	242C
346E(b)	21/64	4-15/32	12	242C



No. 344



No. 345



No. 346

Note:

- (a) These codes have phenol fiber insulators.
- (b) These codes have hard rubber insulators.
- (P) Preferred codes.

Eighteen Contacts

KS16409 Connector, L2, 3, and 4

For information, see page 27A

# MULTICONTACT JACKS

## Twenty Contacts

(For table on Twenty Contact Plugs, See Pages XII-31 to XII-40 in Multicontact Plug Section)

### (P) Nos. 345 and 345E Jacks

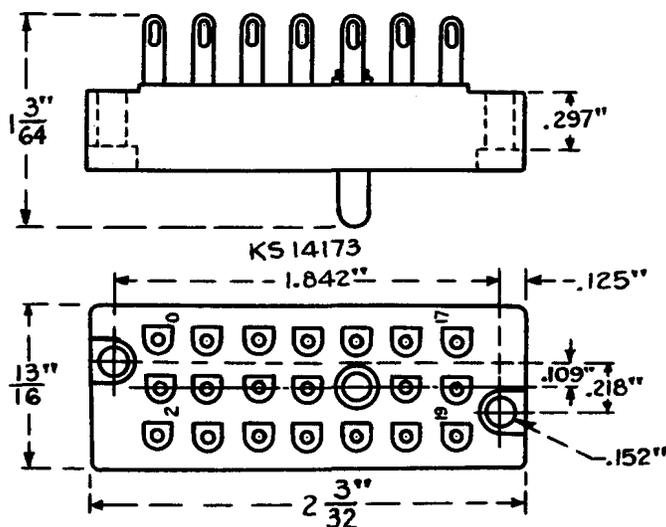
For information, see Page 29

### KS14173 Jack

The KS14173 jack is used with KS14160 connector for plug-in assemblies. It has twenty gold-plated phosphor bronze terminals. The test voltage is 500 volts ac.

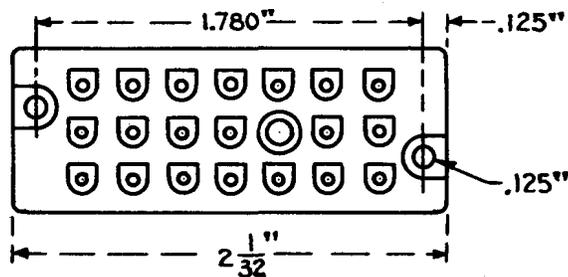
### KS16344 Jack

The KS16344 jack is intended for use with the KS14160 connector (male) in the 756A PBX. It consists of the KS14173 jack and a cable clamp located so as to permit the associated cable to enter the jack from the top. Overall height, not including the guide pin, is 1-7/8 in.



### KS14095 Jack

The KS14095 jack is used with the KS13876 connector (male) for plug-in assemblies. On all new apparatus, it is recommended that the KS14173 jack shall be used instead of the KS14095 jack.



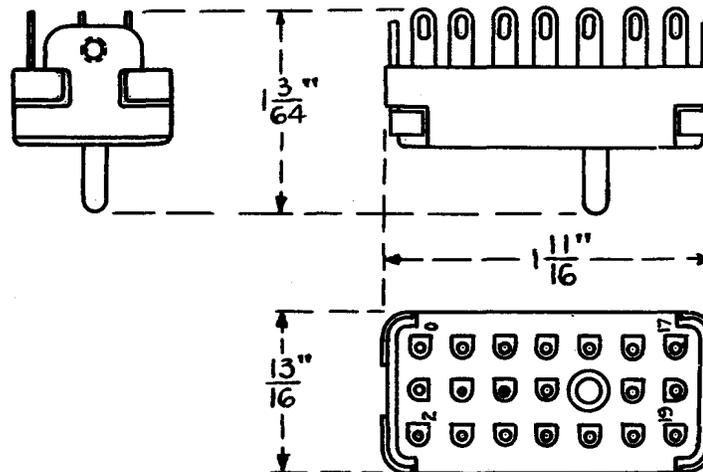
Note:

(P) Preferred code

(Otherwise same as KS14173)

Twenty Contacts (Contd)KS16080 Jack

The KS16080 jack is primarily intended for use as a part of the 124-type adapters used with the 5U test set, J98705. This jack will mate with the KS16081 plug. It consists of a molded block of insulating material equipped with twenty gold-plated phosphor bronze terminals and a mounting bracket at each end. These brackets are shipped loose.



KS16080 Jack

KS16409 Connector, L5, 6, and 7

For information, see page 27A

Twenty-one ContactsKS 16409 Connector, L8 and 9

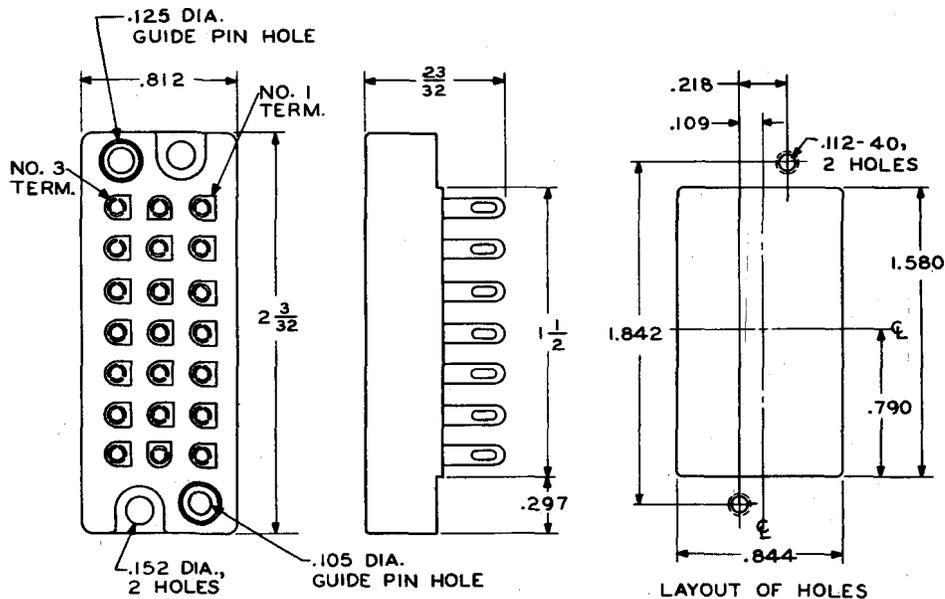
For information, see page 27A

# MULTICONTACT JACKS

## Twenty-one Contacts

### KS14672 Connector (Female)

The KS14672 connector is intended for use with the J64037B transmission measuring set per J64037 in toll systems and will mate with the KS14671 connector (male). It consists of a molded rectangular block equipped with twenty-one gold-plated phosphor bronze terminals.



## Twenty-four Contacts

### (P) Nos. 346 and 346E Jacks

For information, see page 29.

## Thirty-four Contacts

### KS16409 Connector, L10

For information, see page 27A

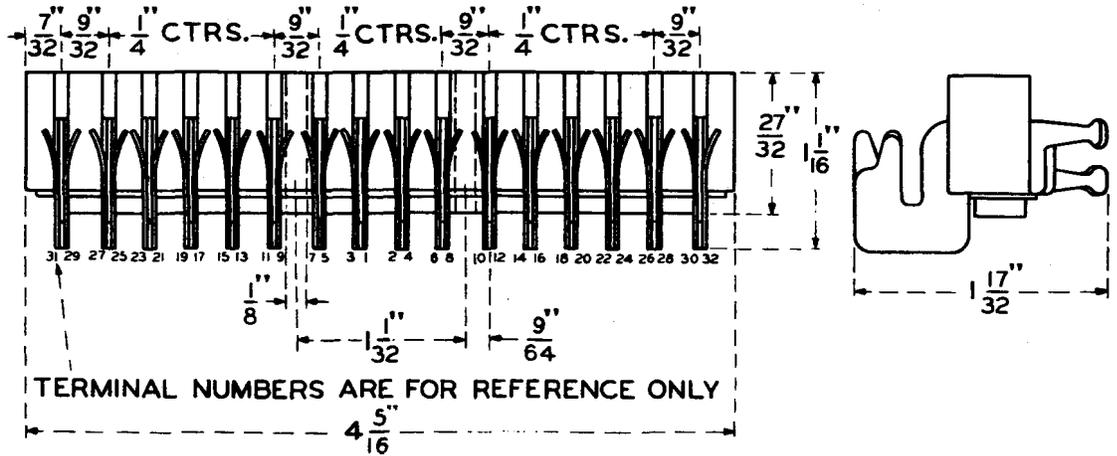
#### Note:

(P) Preferred code

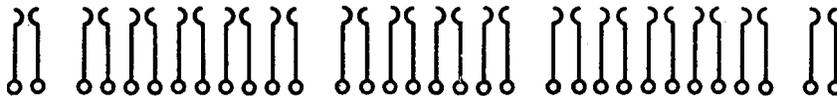
Thirty-two Contacts

(P) No. 461A Jack

The No. 461A jack is used with the No. 333-type plug in connectors and connector shelves in the No. 355A dial office. It consists of a wooden strip in which are mounted 32 contact springs insulated from each other.



X-75500



No. 461A

Note:

(P) Preferred Code.

# MULTICONTACT JACKS

## Thirty-five Contacts

### KS14555 Connectors

These polarized connectors consist of a molded rectangular block of insulating material equipped with 35 floating gold-plated phosphor bronze female contacts.

The L1 connector has two mounting holes on each end.

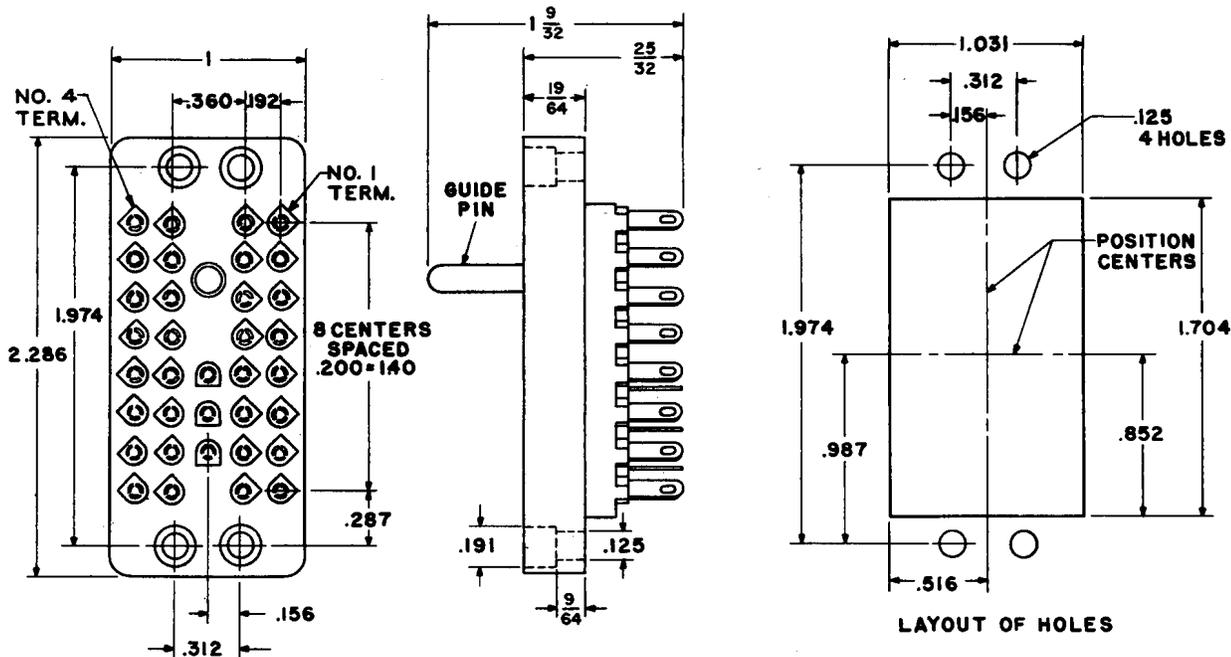
The L2 connector is an L1 connector equipped with a gray cover which has a combination handle and cable clamp at the top, suitable for clamping a 1/2 inch cable.

The L3 connector is the same as the L2 except that the cable clamp and hole are at the end of the cover, and the cable clamp closes to 3/8 inch.

The L4 connector is an L1 connector equipped with a cover which has a cable clamp at the top suitable for clamping a 3/8 inch cable.

The L5 connector is an L1 connector equipped with a cover with a handle similar to the L3 connector and with a cable clamp located above the no. 1 terminal on the side. The cable clamp is suitable for clamping a 1/2 inch cable.

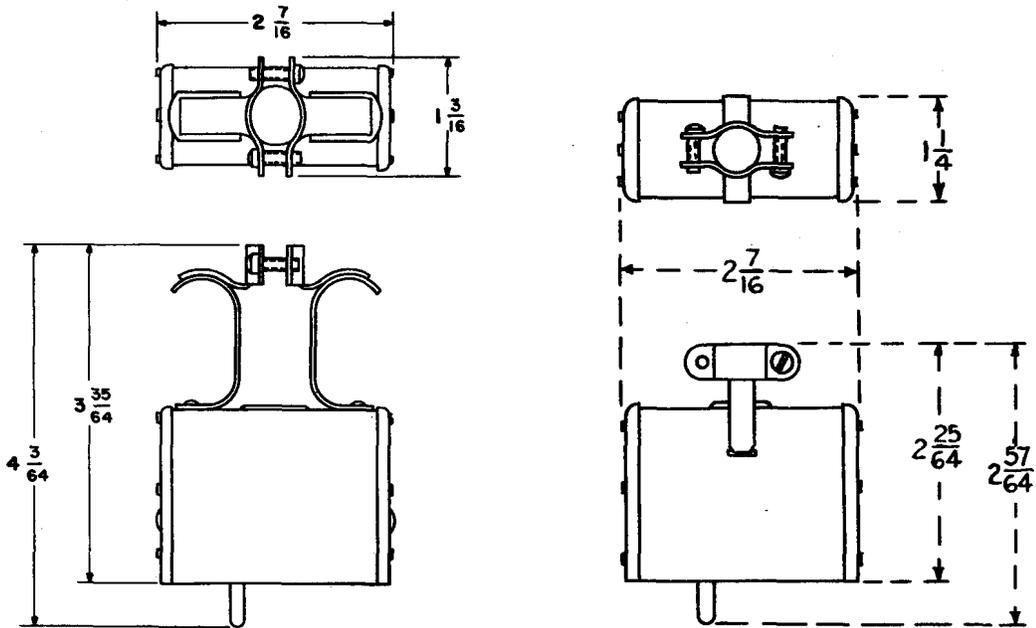
The KS14555 connectors will mate with KS14554 connectors.



KS-14555, L1

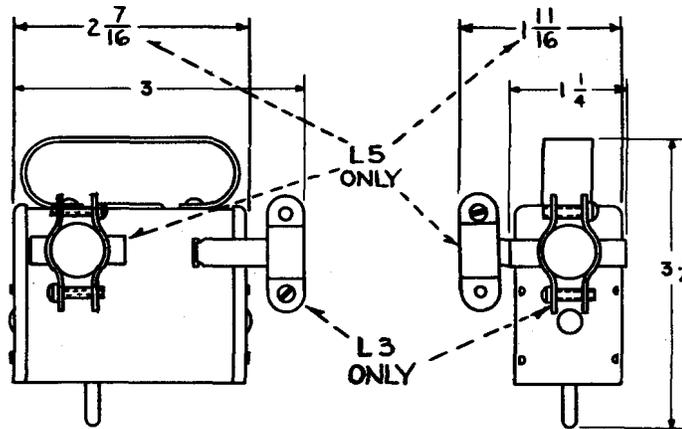
Thirty-five Contacts (Contd)

KS14555 Connectors



KS14555, L2

KS14555, L4



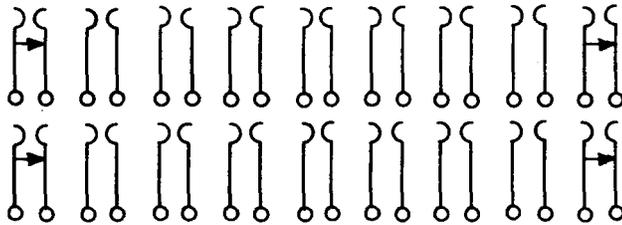
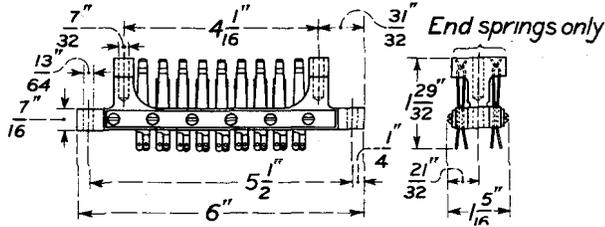
KS14555, L3 & L5

# MULTICONTACT JACKS

## Thirty-six Contacts

### No. 312 Jack

The No. 312 jack is used in switching or patching in emergency switching and patching plug and jack equipment of dial offices. It is arranged for use with No. 231-type plug (h). The contact springs are arranged in pairs and insulated from each other.



No. 312

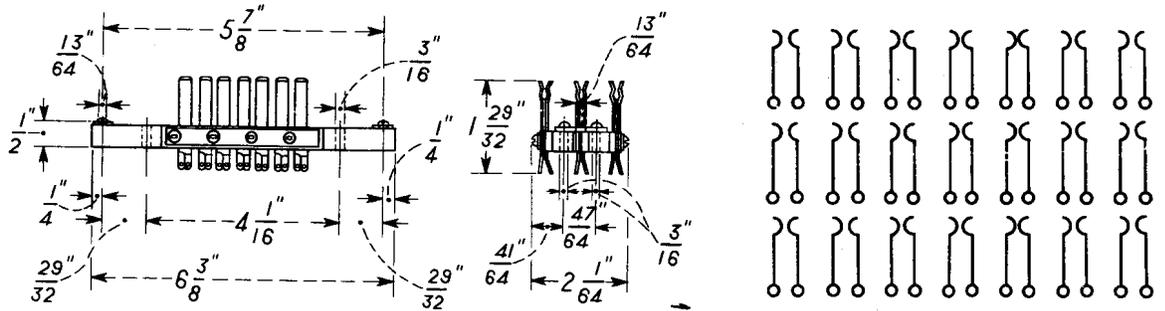
### Notes:

(h) In either of two positions.

Forty-two Contacts

No. 283 Jack

The No. 283 jack is used in machine switching emergency equipment of line finder frames for switching purposes. It is arranged for No. 187-type plug (h). The contact springs are arranged in pairs and are insulated from each other



No. 283

X-75500

Note:

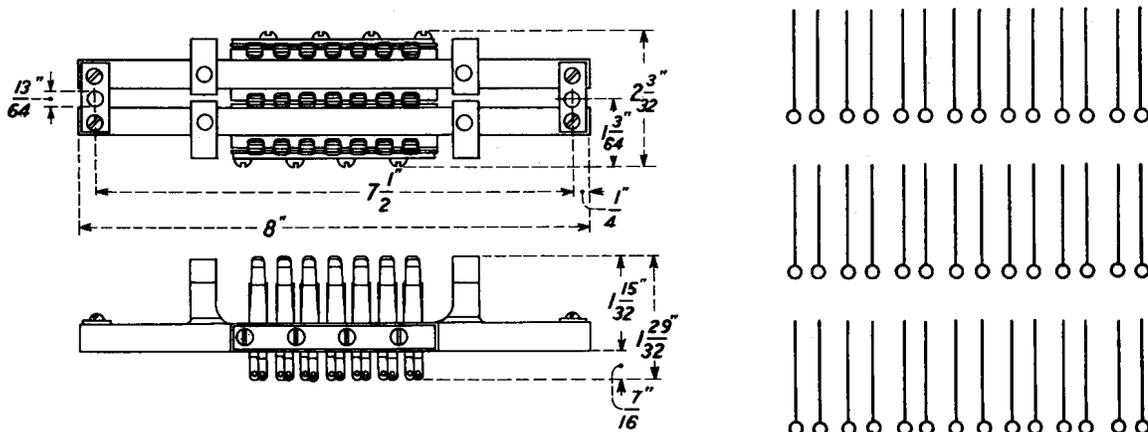
(h) In either of two positions.

# MULTICONTACT JACKS

## Forty-two Contacts (Continued)

### No. 310 Jack

The No. 310 jack is used with 400-point line finder as an emergency switching jack in conjunction with the No. 226 plug which engages with the jack on either of two positions. No. 211B switch is recommended in place of the No. 310 jack and No. 226 plug. The contact springs are arranged in pairs and are insulated from each other.



No. 310

Forty-four Contacts

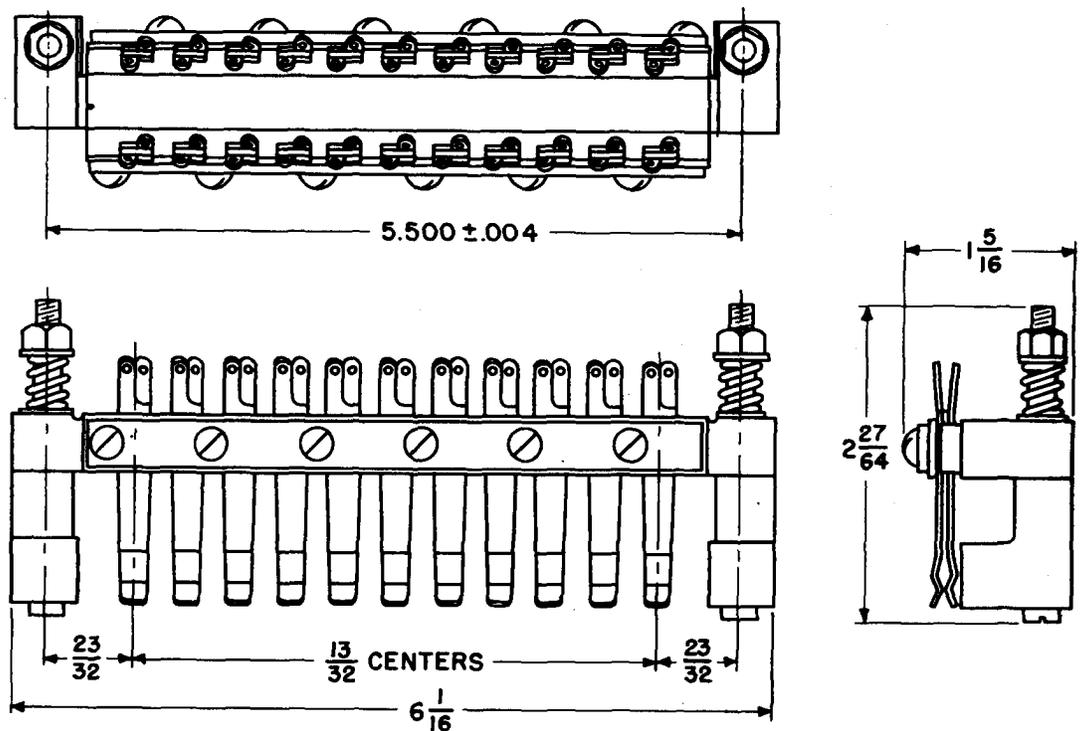
No. 481B Jack

For information, see page 43.

(P) No. 495 Jack

This jack has 44 contact springs arranged in pairs and insulated from each other. It is used with the No. 216B plug in connection with perforators in the AMA System.

X-75500



No. 495A

Note:

(P) Preferred Code.

MULTICONCONTACT JACKS

Fifty Contacts

KS14453 Sockets

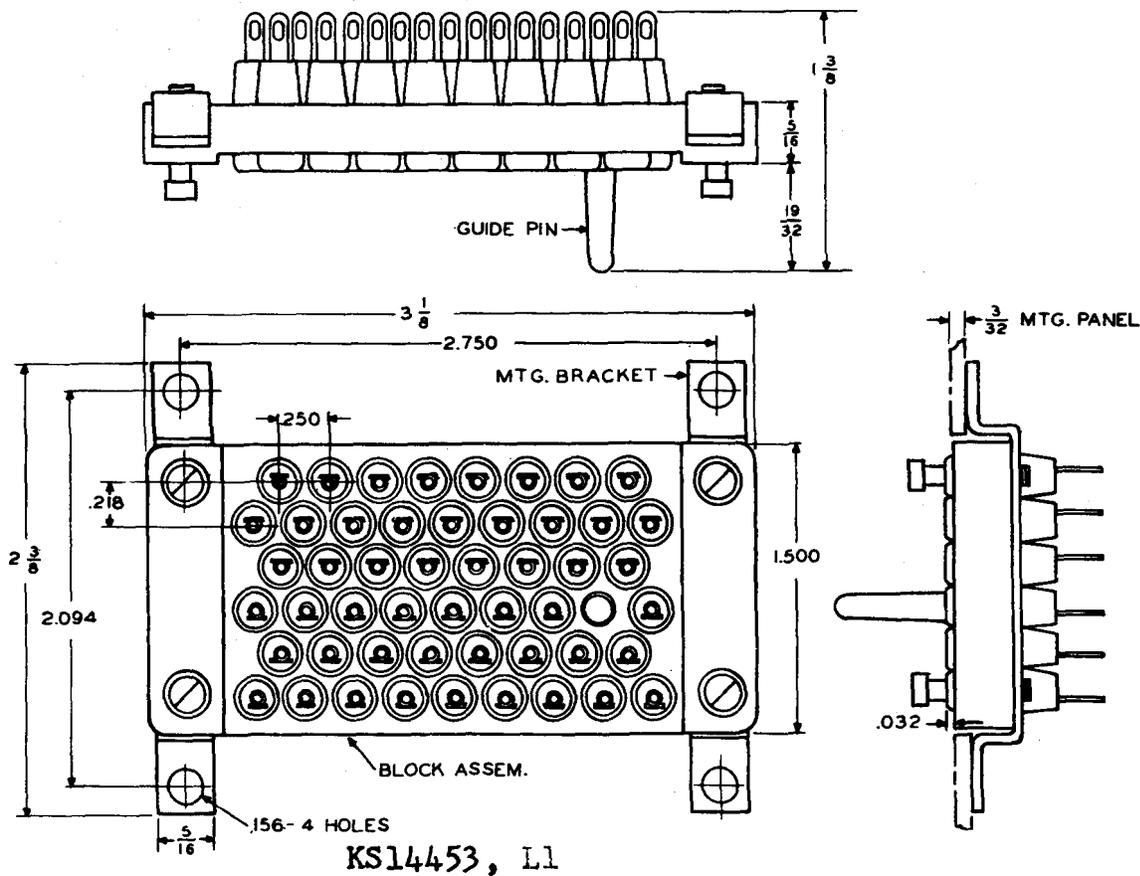
The KS14453 sockets are multicontact polarized sockets intended for use in the 81D1 TTY switching system for patching purposes. These sockets have fifty gold-plated phosphor bronze floating female contacts.

The L1 socket has two mounting brackets used to mount the socket on a 3/32 inch panel.

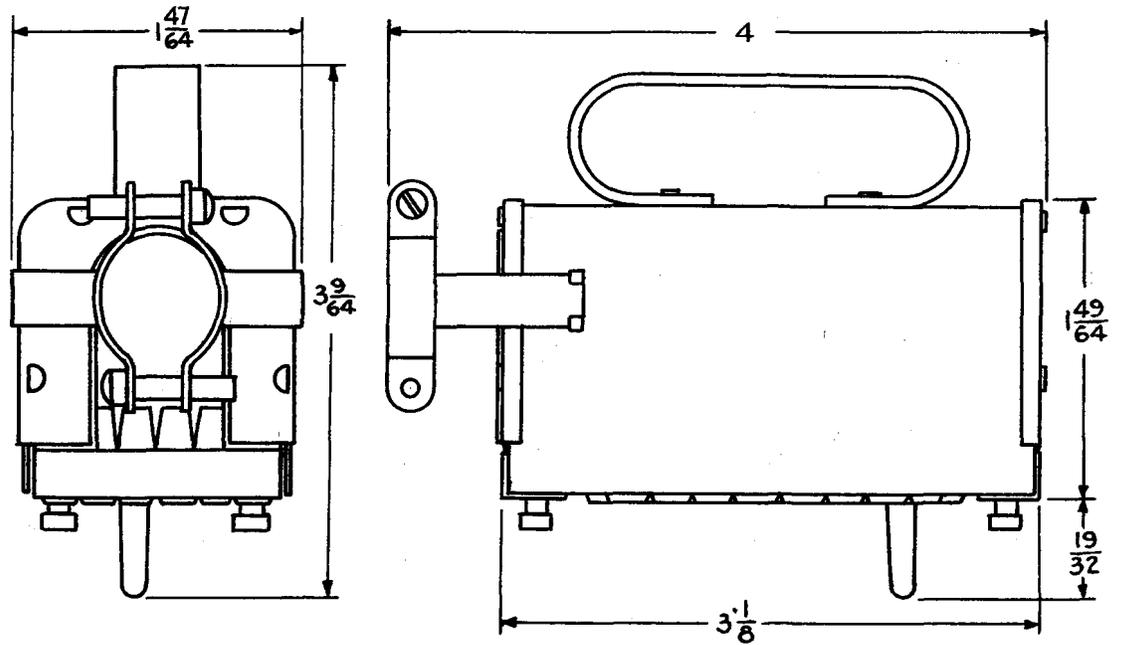
The L2 socket is equipped with a cover with a handle on top and a cable clamp suitable for clamping a 3/4 inch cable at one end.

The L3 socket is equipped with a cover which has a combination cable clamp and handle riveted on the top. The cable clamp is suitable for clamping a 3/4 inch cable.

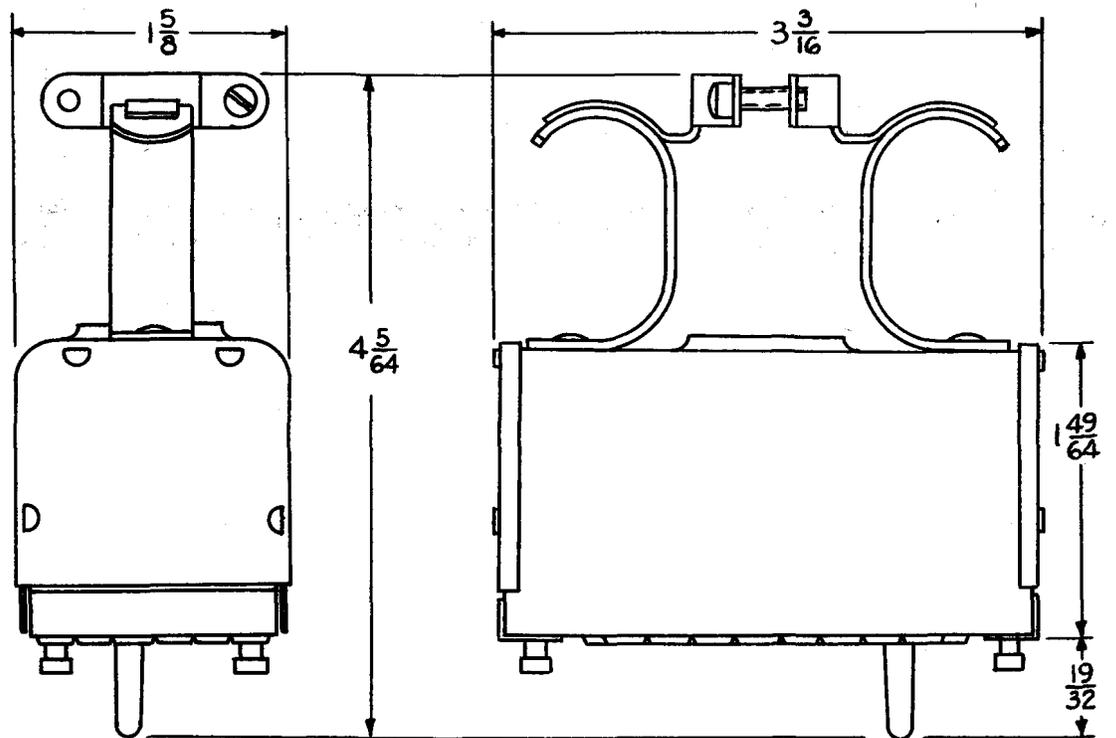
The KS14453 sockets will mate with the KS14452 plugs.



Fifty Contacts (Contd)



KS14453, L2



KS14453, L3

MULTICONTACT JACKS

Fifty Contacts (Contd.)

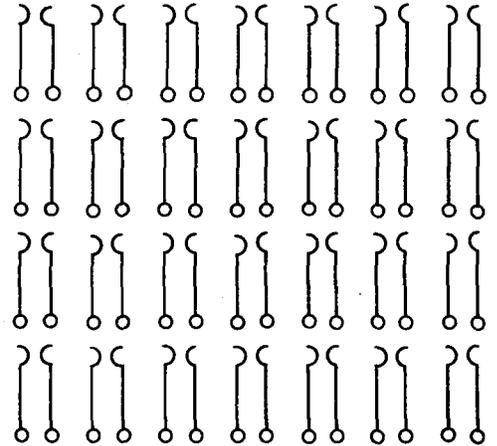
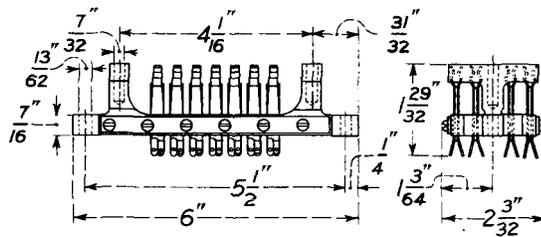
KS16409 Connector, L11, 12, 13, and 14

For information, see page 27A

Fifty-six Contacts (Continued)

(P) No. 311 Jack

The No. 311 jack is used in switching or patching in emergency switching and patching plug and jack equipment of dial offices. It is also used with the portable answering time recorder in conjunction with the No. 300A plug. The contact springs are arranged in pairs and are insulated from each other.



No. 311

Note:

(P) Preferred Code.

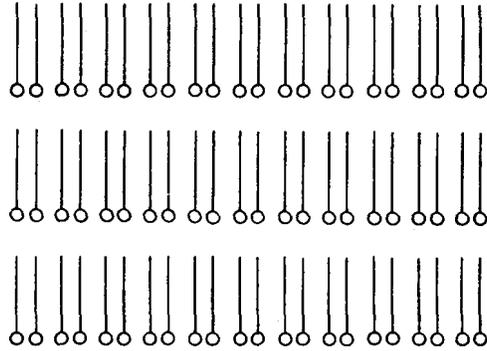
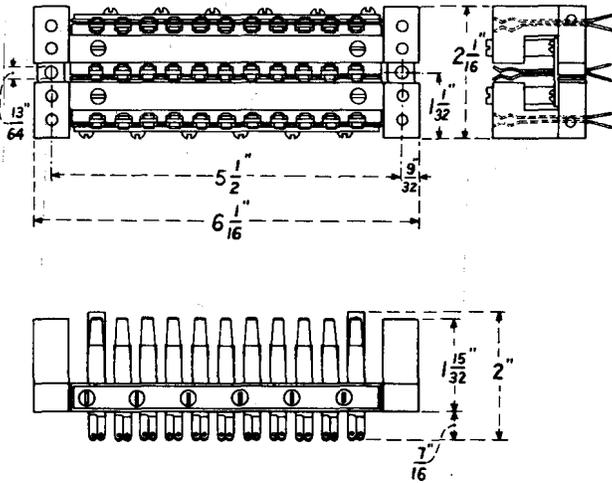
X-75500

# MULTICONTACT JACKS

## Sixty-six Contacts

### No. 298 Jack

The No. 298 jack is used in panel message register connector frame as an emergency switching jack. It is arranged for use with Nos. 214- or 216-type plug. The No. 216 plug engages with the center and either of the outer rows of contact springs of the jack and the No. 214 plug engages with the unoccupied outer rows of contact springs. The contact springs are insulated from each other and are arranged in pairs.

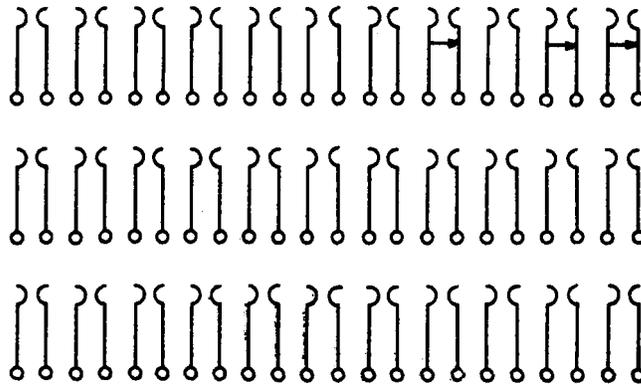
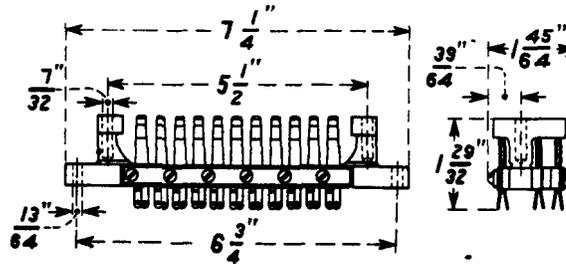


No. 298

Sixty-six Contacts (Contd)

No. 315 Jack

The No. 315 jack is intended for switching in emergency switching and patching plug and jack equipment in dial offices. It is arranged for No. 233-type plug. The contact springs are insulated from each other and are arranged in pairs.



No. 315

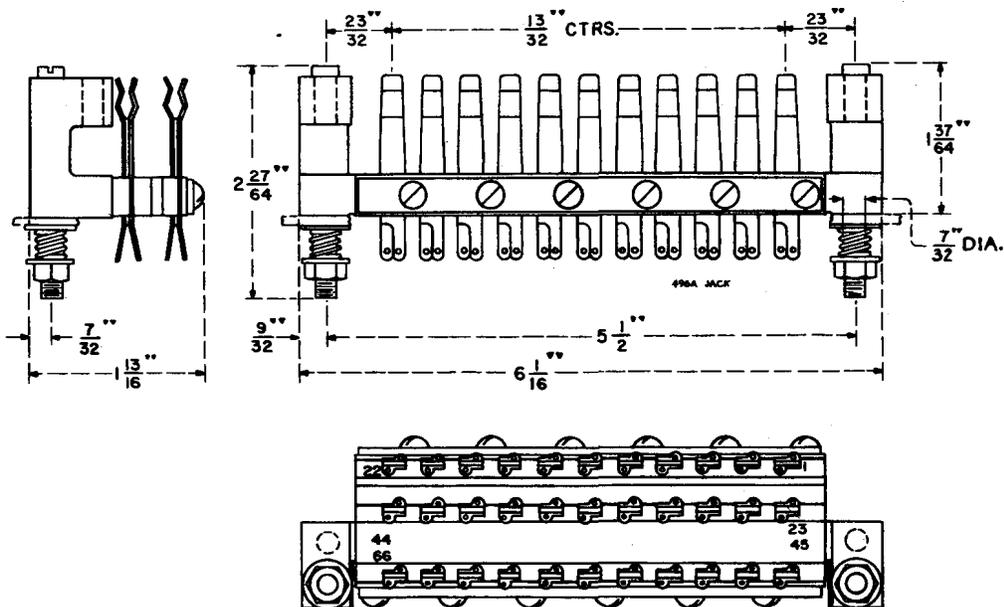
X-75500

# MULTICONCONTACT JACKS

## Sixty-six Contacts (Contd.)

### (P) No. 496A Jack

The No. 496A jack is intended for use with the plug assembly of the KS13882, L3 perforator of the accounting center for the automatic message accounting system. It is provided with guide holes for locating the pins on the plug assembly of the KS13882, L3 perforator in order to line up the contact springs of the jack with the contacts of the plug. The contact springs are insulated from each other and are arranged in pairs.



No. 496A Jack

## Seventy-five Contacts

### KS16409 Connector, L15, 16, 17, 18, and 19

For information, see page 27A

#### Note:

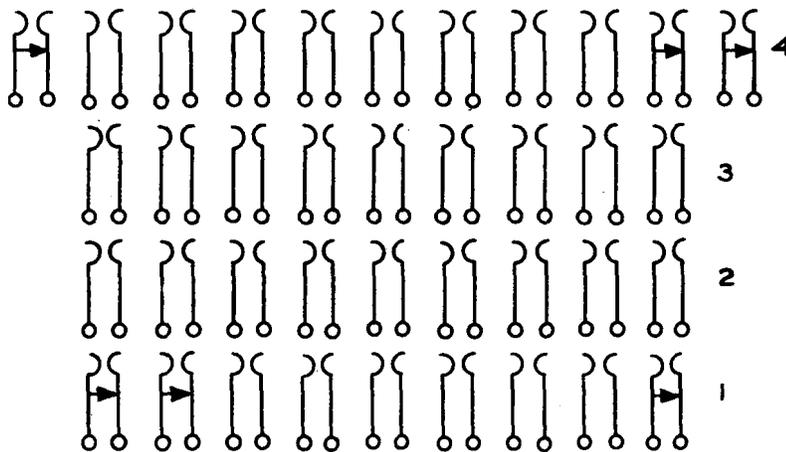
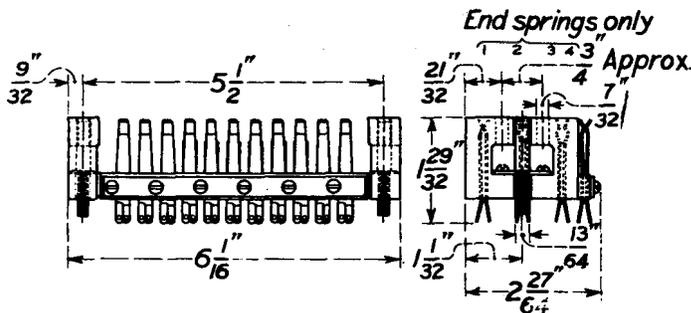
(P) Preferred Codes.

MULTICONTACT JACKS

Seventy-six Contacts

No. 313 Jack

The No. 313 jack is intended for switching only in emergency switching and patching plugs and jack equipment of dial offices. It is arranged for the No. 232-type plug (h). The contact springs are insulated from each other and are arranged in pairs.



X-75500

No. 313

Note:

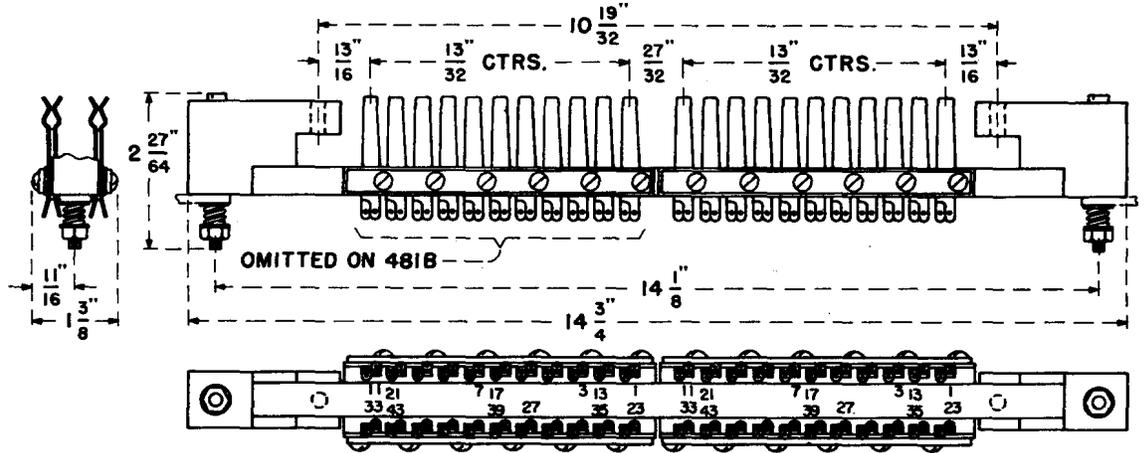
(h) In either of two positions.



Eighty-eight Contacts

Nos. 481A and B Jacks

The Nos. 481A and B jacks are arranged for flexible mounting. No. 481A has 44 pairs of contact springs and No. 481B has 22 pairs of contact springs. The contact springs are insulated from each other. Both are used in the reader for the automatic message accounting system and accounting center No. 1.



Nos. 481A and B

X-75500

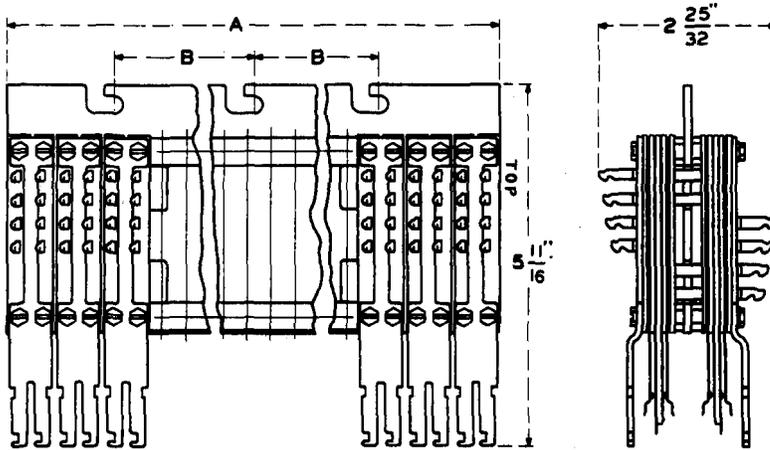
# MULTICONTACT JACKS

## Four Hundred and Four Hundred Sixteen Contacts

### (P) Nos. 444A and B Jacks

The Nos. 444A and B jacks are used in central offices located in areas where incoming circuits are in underground cables and do not require heat coil protection. These are used with Nos. 301- and 319-type plugs. There are two pairs of normally contacting springs for each cable pair.

<u>Code No.</u>	<u>Dimensions</u>		<u>Capacity Cable Pairs</u>	<u>Spring Assemblies</u>
	<u>A</u>	<u>B</u>		
(P) 444A	18-23/32	7-1/2	100	400
(P) 444B	19-15/32	7-7/8	104	416

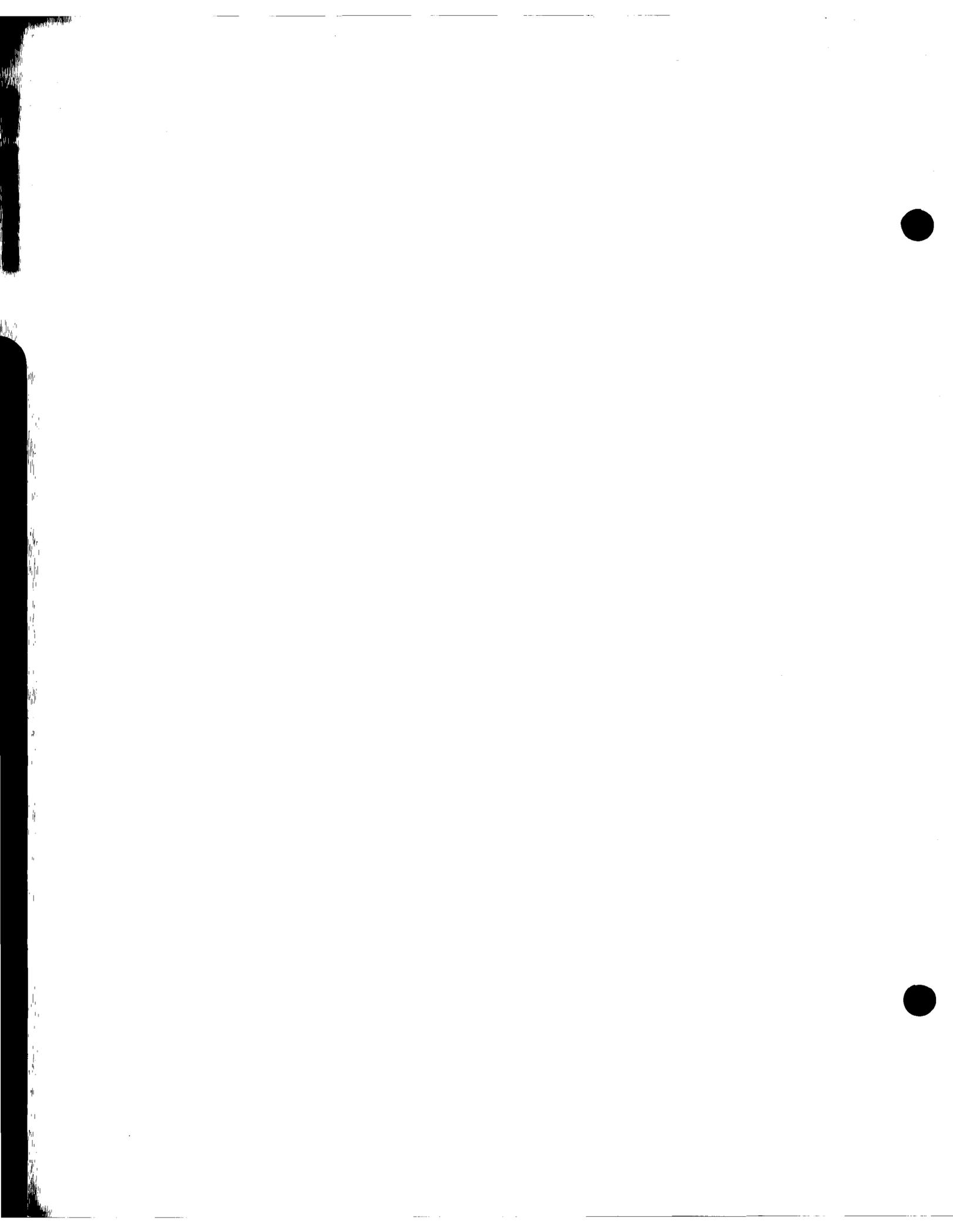


Nos. 444A and B

### Note:

(P) Preferred Code.





SECTION V  
MISCELLANEOUS JACKS

X-75500

7-15-52

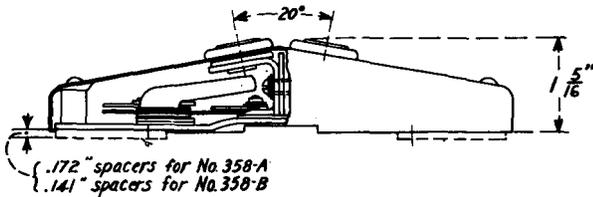
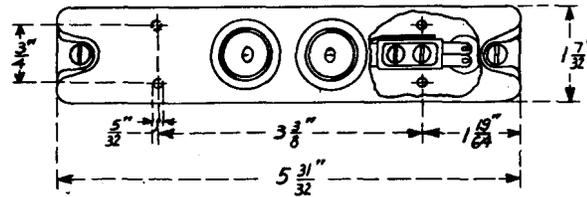
V-1

MISCELLANEOUS JACKS

(P) No. 358A and B Jacks

The Nos. 358A and B jacks are intended for use in straightforward trunking installations to enable the "B" operator to connect manually a headset to the called incoming trunk. These jacks mount on the face of the switchboard across the stile strip, between alternate pairs of "B" operators' positions.

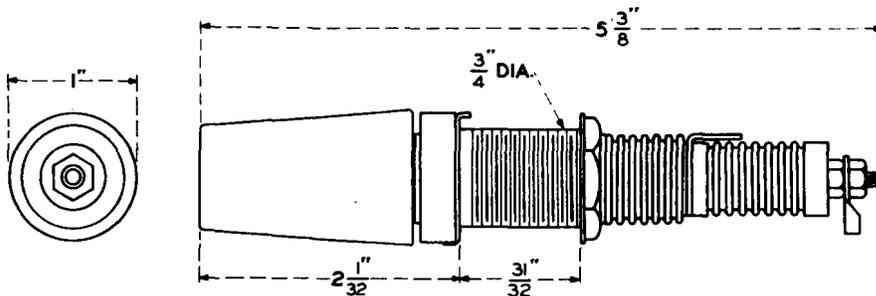
<u>Jack</u>	<u>Associated Plug</u>
(P) 358A	309
358B	310



Nos. 358A and B

No. 399 Jack

The No. 399 jack is a single-conductor highly-insulated jack for use on the No. 5 toll test board. It is used with the No. 278-type plug.

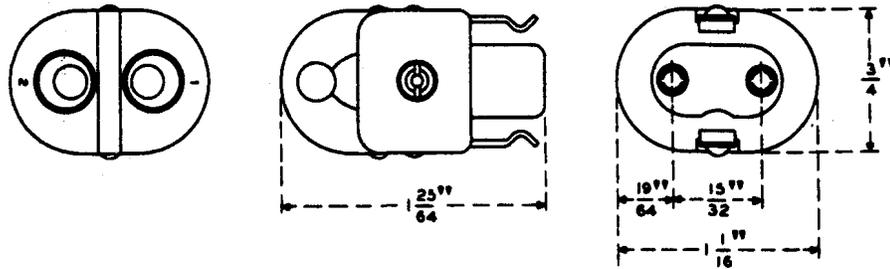


No. 399

Note:  
(P) Preferred Code.

No. 471A Jack

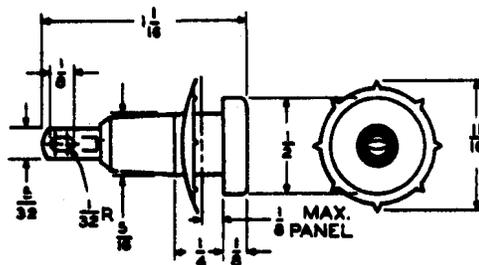
The No. 471A jack is a polarized jack having a black molded body equipped with two socket-type contacts and two springs for partial locking to the No. 346-type plug. Used with the following cords W2CJ, W2CK, W2CL, W2DB, W3AA, W3AH, and W4AY.



No. 471A

KS-14171 Jack

The KS-14171 jack is a pin-type jack designed to accommodate a 0.080 inch diameter pin and consists of a contact element inserted in a cylindrical body. It is for use with No. 26 cords and requires a  $\frac{21}{64}$  inch diameter hole for mounting. List 1 is red and List 2 is black.



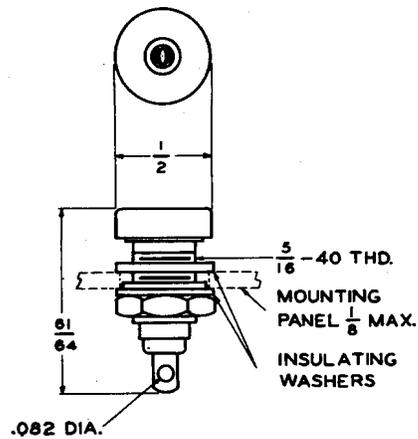
KS-14171

X-75500

## MISCELLANEOUS JACKS

### KS-14172 Jack

The KS-14172 jack is a telephone tip-type jack. List 1 has a black cap, List 2 has a red cap. It is not recommended for high frequency. It mounts on a panel of  $\frac{1}{8}$  inch maximum thickness.



KS-14172 Jack

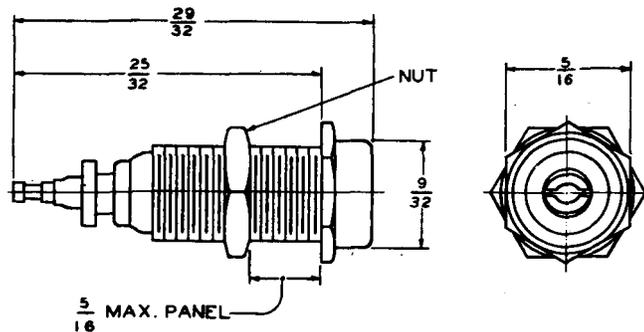
KS-14519L1 Jack

For information see page 14, Multicontact Jack Section.

KS14523 Connector

KS14523 connectors, Lists 1 to 7 inclusive, are used with pin-type plugs. They mount on  $\frac{5}{16}$  inch maximum panels. These connectors are designed to accomodate a .080 inch diameter pin. The use of larger pins is not recommended. They are equipped with silver-plate phosphor bronze contacts and a nylon insulator.

<u>List No.</u>	<u>Color</u>
1	White
2	Red
3	Black
4	Brown
5	Green
6	Orange
7	Marine Blue



KS-14523

X-75500

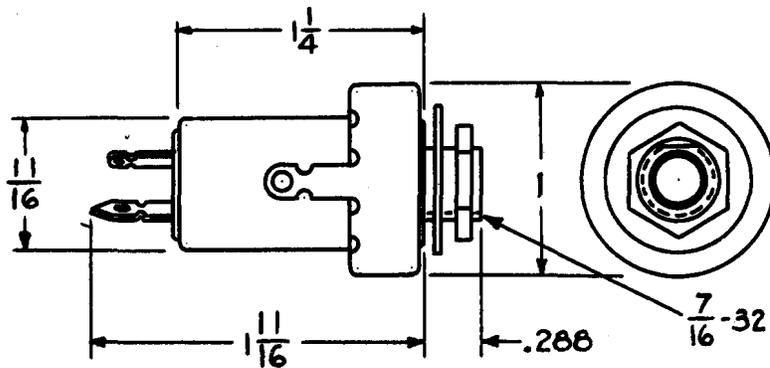
## MISCELLANEOUS JACKS

### KS16310 Jack

The KS16310 jack is primarily intended for use in the 107-type test sets. It will mate with a No. 310 or similar type plug having the same profile dimensions as specified for new apparatus.

The jack consists of a body of insulating material having nickel silver tip and ring springs. External connections are made to these springs by means of the two terminals which project through one end. The other end of the body is covered with a metal cap which is provided with a jack sleeve and sleeve terminal. A neoprene ring, a washer, and a hexagon nut are furnished for mounting.

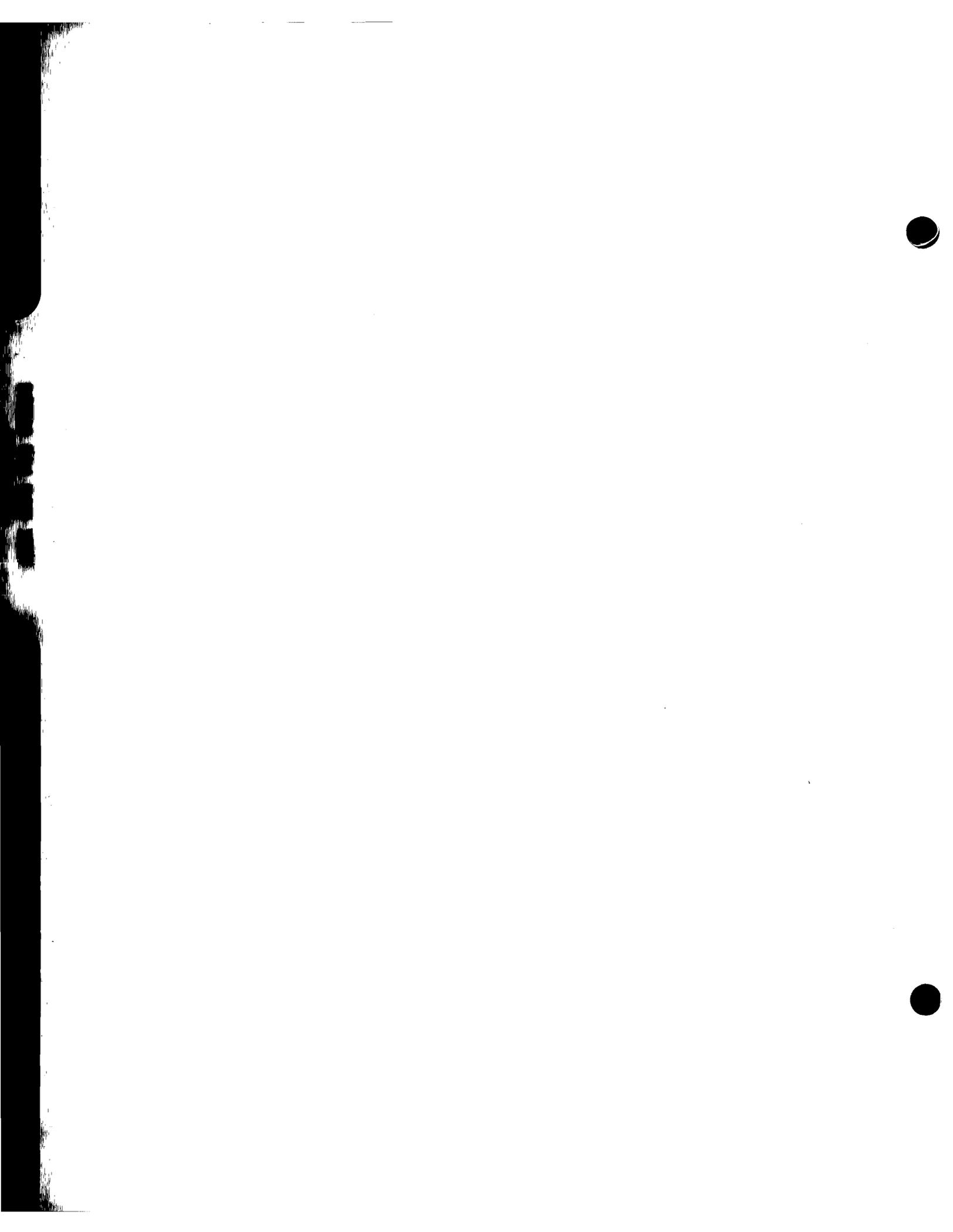
This jack is intended for outdoor use where a rainproof seal is required between the jack shell and the mounting. There is no provision made to prevent water from entering the jack sleeve. All insulated metal parts are tested to withstand 1000 volts ac.



KS16310



1  
2  
3  
4



## SECTION VI

### JACK MOUNTINGS FOR SWITCHBOARDS

To select jack mountings and associated apparatus for a given application for switchboards or relay racks, turn to the data for the face length required. The corresponding lamp socket mountings, designation strips, and jack spaces will be found listed adjacent to the various jack mountings.

A general list of lamp socket mountings is given on page VI-12 to facilitate selecting mountings for special purposes. Additional apparatus which will mount in jack mountings is listed on page VI-15

X-75500

JACK MOUNTINGS FOR SWITCHBOARDS

Face Length 6-21/32 Inches

Jacks Per Mtg	Jack Mtgs	Jacks* Used	Notes (Page VI-3)	Lamp** Socket Mtg	Desig. Strip	Jack Spaces	Illustrations (Page)
10	128	218A	m	143	59	160	VI-24
	130	218A	c				VI-25
	147	218A	n				VI-27
20	129	218A	c,m	-	-		VI-24
	146	218A	n				VI-27

Face Length 7-23/32 Inches

10	(P)138	92,292	a,b,c,f	111	6	12 112	VI-26
	(P)139	92,292	a,b,f,ax,ay	134	13		VI-26
	(P)145	229,408	b,c	294	54		VI-27
	243B	Singly Mounted on 23/32 Centers	c,j	295A	60 61		VI-40
20	(P)113	92,292	a,b,c,d,f	265	6		VI-20
	(P)228A	92	b,c,e,f	278B	13		VI-35
	(P)235A	92,292	a,b,c,f,g	283A	14		VI-37
				283C	54		
	(P)236A	223A 238A 239A 303A		300A	60 61		VI-37
(P)247A	92,292	a,b,c,h			VI-41		
5	(P)190B	323C	f		13 54 60 61		VI-31
8	(P)190A	323C	f	-			VI-31
	(P)238A	293A	c,f				VI-38
	(P)241B	141	c,f				VI-39

\*For additional singly mounted jacks, see Introduction.  
 For apparatus which can be mounted in place of jacks, see page VI-15.

\*\*For additional lamp socket mountings, see page VI-12.

## JACK MOUNTINGS FOR SWITCHBOARDS

### NOTES

- a - Lower edge of face is grooved.
- b - These jack mountings are equipped with the jacks specified and cannot be furnished separately.
- c - Numbered as per order.
- d - Spotted unless otherwise specified.
- e - The jack sleeves are grounded to the mounting lugs by the clamping strips, and the sleeve terminals are strapped.
- f - Equipped with a holly strip when specified.
- g - Figure number and numbering must be specified (see figure page VI-37)
- h - Mounts twenty jacks having a metal strip mounted on the top of the face strip. The sleeve of any jack can be grounded through the metal strip by means of a No. 367A (twin) plug.
- j - Arranged for mounting with jack fasteners at each end.
- m - Arranged to mount No. 8K designation strip.
- n - Arranged to mount No. 130A number plate.
- ax - Arranged for Nos. 30 and 60 number plates.
- ay - Equipped with ten 490A keys when specified in the order.
- (P) - Preferred codes.

X-75500

JACK MOUNTINGS FOR SWITCHBOARDS

Face Length 7-23/32 Inches (Contd)

Jacks Per Mtg	Jack Mtgs	Jacks* Used	Notes (Page VI-3)	Lamp** Socket Mtg	Desig. Strip	Jack Spaces	Illustrations (Page)
2	(P)254A	238A, 246A	ar	-			VI-42
12	(P)242A	410C	j, aq	-	6	12	VI-39
	(P)243A	215A	c, j		13	112	VI-40
					54		
					60		
14	(P)241A	138, 275, 295, 141, 365, 378	b, c, f, z	-	61		VI-39
40	(P)234A	92, 292	a, b, c, f, g	-			VI-36

Face Length 9-3/16 Inches

10	(P)21	15, 70 112	b, c	101	1	1	VI-18
				122	7	101	
		127	193	b, u, f	259	56	VI-24
		(P)141	49, 50	a, b, c		62	VI-26
		(P)142	49, 50	a, b, c, s			VI-27
		(P)143	238A	c			VI-27
		(P)191A	324C	c			VI-32
20	(P)250A	138, 141, 275, 295, 308, 347, 362, 365, 378, 494A	a, b, c, f				VI-41
	(P)114	49	a, b, c, d	102	1		VI-20
		118	193	b	263	2	VI-22
		120	193	a, b, f	281A	7	VI-22
		(P)218A	285C	am	290A	56	VI-34
		(P)218B	216C	an		57	
						62	

\*For additional singly mounted jacks, see Introduction.

For apparatus which can be mounted in place of jacks, see Page VI-15.

\*\*For additional lamp socket mountings, see Page VI-12.

NOTES

- a - Lower edge of face is grooved.
- b - These jack mountings are equipped with jacks specified and cannot be furnished separately.
- c - Numbered as per order.
- d - Spotted unless otherwise specified.
- f - Equipped with a holly strip when specified.
- g - Figure number and numbering must be specified (see Illustration VI-36)
- j - Arranged for mounting with jack fasteners at each end.
- s - Arranged to mount Nos. 31A, 32A, 59B number plates.
- u - Same as the No. 117 jack mounting except not arranged for number plates.
  
- z - Face strip of insulating material is mounted on the frame.
- am - Dimensions A and B are 11/16 and 7/16 respectively (see illustration VI-34).
- an - Dimensions A and B are 5/8 and 15/32 respectively (see illustration VI-34)
- aq - Arranged to mount the No. 106A designation strip.
- ar - Arranged to mount 5, No. 12B number plates and 3, No. 1A test posts.

X-75500

JACK MOUNTINGS FOR SWITCHBOARDS

Face Length 9-3/16 Inches (Contd)

<u>Jacks Per Mtg</u>	<u>Jack Mtgs</u>	<u>Jacks* Used</u>	<u>Notes (Page VI-7)</u>	<u>Lamp** Socket Mtg</u>	<u>Desig Strip</u>	<u>Jack Spaces</u>	<u>Illustrations (Page)</u>
5	77	49,50	b,c	-	1,7, 56, 62		VI-19 VI-33
	(P)204A	223A 238A,B					
8	(P)144	238A, 239A 240A, 241A, 242A	c,w				VI-27
12	(P)205A	239A,B	x		1,7, 56, 62	1,101	VI-33
17	(P)232A	138,141, 275,295, 365,378	a,b,c,f	297A, 298A			VI-35
40	176	49	a,b,y,d,f	-			VI-29

Face Length 10 Inches

12	(P)239A	238A	r	-	-	-	VI-38
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Face Length 10-1/2 Inches

10	(P)116	138,141, 275,295, 308,347, 362,365, 378, 494A	b,c,f				VI-21
	6	15,70, 112	b,c	125	10, 24	27	VI-17

\*For additional singly mounted jacks, see Introduction  
For apparatus which can be mounted in the place of jacks, see page VI-15.

\*\*For additional lamp socket mountings, see page VI-13.

## JACK MOUNTINGS FOR SWITCHBOARDS

### NOTES

- a - Lower edge of face is grooved.
- b - These jack mountings are equipped with jacks specified and cannot be furnished separately.
- c - Numbered as per order.
- d - Spotted unless otherwise specified.
- f - Equipped with a holly strip when specified.
- r - When equipped with jacks each pair of jacks will accommodate a No. 289B plug.
- w - Arranged to mount two No. 424 keys.
- x - Arranged to mount No. 479 or similar type key.
- y - Numbered as per order with the same numbering appearing on both the upper and lower strip.

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JACK MOUNTINGS FOR SWITCHBOARDS

Face Length 10-1/2 Inches (Contd)

<u>Jacks Per Mtg</u>	<u>Jack Mtgs</u>	<u>Jacks* Used</u>	<u>Notes (Page VI-9)</u>	<u>Lamp** Socket Mtg</u>	<u>Desig Strip</u>	<u>Jack Spaces</u>	<u>Illustrations (Page)</u>
10	(P)169	215A,	-	125	10	27	VI-28
	196A	324C	c	132	24	127	VI-32
20	(P)115	141,138, 275,295, 365,378	a,b,c,d				VI-21

Face Length 11-3/16 Inches

10	123	193	a,b,s,f	136, 282B	51,55	59,159	VI-23
	(P)136	138,141, 275,295, 308,347, 362,365, 378,494A	a,b,c				VI-26
	(P)137	138,141, 275,295, 308,347, 362,365, 378,494A	a,b,t,f				VI-26
	149	240A	c				VI-27
	(P)167	49	a,b,c				VI-28
	(P)189A	240A	c,av				VI-30
	(P)189C	284B					VI-31
	(P)197A	324C	c				VI-32
	(P)207A	284A,B,	c				VI-34
	(P)244A	360A	c,l				VI-41

\*For additional singly mounted jacks, see Introduction

For apparatus which can be mounted in the place of jacks, see page VI-15.

\*\*For additional lamp socket mountings, see page VI-13.

NOTES

- a - Lower edge of face is grooved.
- b - These jack mountings are equipped with jacks specified and cannot be furnished separately.
- c - Numbered as per order.
- d - Spotted unless otherwise specified.
- k - Arranged to mount ten jacks (A or B mounting arrangement) on 1.1 inch centers on the horizontal center line, the first and tenth jack being .643 inch from its respective end. The distance between the right-hand end position (position 10) and the bracket is such that this end position will accommodate a jack whose pile-up does not exceed  $5/8$  inch or which is arranged to mount on horizontal centers of  $23/32$  inch or less.
- l - Furnished engraved (in white) as shown in the illustration (Page VI-41) unless otherwise specified.
- s - Arranged to mount Nos. 31A, 32A, and 59B number plates.
- t - Arranged to mount No. 5B number plate.
- av - Also mounts ten lamp sockets.

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JACK MOUNTINGS FOR SWITCHBOARDS

Face Length 11-3/16"

Jacks Per Mtg.	Jack Mtg.	Jacks* Used	Notes (Page VI-11)	Lamp** Socket Mtgs.	Desig. Strip	Jack Spaces	Illustrations (Page)
20	(P)112	138,141 275,295 365,378	a,b,c,d,f	137B, 144 282A	50,51, 55		VI-20
	122	193	a,b,f				VI-23
	(P)168	49	a,b,c,d				VI-28
	(P)217A	138,141 275,295 365,378	a,b,c,d				VI-34

Face Length 11-1/2"

10	9	15,112	b,c	103	29,46, 49 105A		VI-17
	15	15,66, 100	b,c				VI-18
20	10	15,112	b,c,d,	104			VI-18

Face Length 11-3/4"

10	96	122	b,v		31	43	VI-20
20	90	122	b,v,f	130			VI-19
100	91	122	b,f	-			VI-19

Face Length 21-3/4"

15	(P)134	234C	c,aw	-	-	164	VI-25
30	(P)133	218C	c				VI-25
	(P)135	236C	c,aw				VI-25

\*For additional singly mounted jacks see Introduction  
 For apparatus which can be mounted in the place of jacks see page VI-15

\*\*For additional lamp socket mountings see page VI-13

NOTES

- a - Lower edge of face is grooved.
- b - These jack mountings are equipped with the jacks specified and cannot be furnished separately.
- c - Numbered as per order.
- d - Spotted unless otherwise specified.
- f - Equipped with a holly strip when specified.
- v - Arranged to mount No. 33A number plate.
- aw - Arranged to mount No. 21B number plate.

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LAMP SOCKET MOUNTINGS

Lamp Socket Mountings

(According to Face Length)

<u>Code No.</u>	<u>Lamp Sockets Per Mounting</u>	<u>Arranged for Lamp Sockets Nos.</u>	<u>Also Mounts</u>
		<u>6-21/32 Inch Face</u>	
143	10	49A	--
		<u>7-21/32 Inch Face</u>	
(P)264	10	43A	No. 8 lamp caps
		<u>7-23/32 Inch Face</u>	
(P)111	10	12 & 30	
(P)134	10	12	
141	1	53A	
142	2	53A	
149	3	53A	
150	4	53A	
(P)257	4	30	
(P)265	20	43A	No. 8 lamp caps
(P)271	3	53A	
(P)272	3	53A	
(P)275 type miscellaneous			
(P)278B	20	43A	No. 8 lamp caps
(P)283A	20	43A	
283B	4	43A	
(P)283C	20	43A	Has light shield
285A	2	53A	92 & 498AD keys
286A	6	53A	92 type keys
292A	2	51A & 53A	
(P)294A	10	30	No. 8 lamp caps
(P)295A	10	43A	
(P)296A	2	51B & 53A	
(P)299A	7	49A	
(P)300A	20	43A	

LAMP SOCKET MOUNTINGS

<u>Code No.</u>	<u>Lamp Sockets per Mounting</u>	<u>Arranged for Lamp Sockets Nos.</u>	<u>Also Mounts</u>
		<u>9-3/16 Inch Face</u>	
(P)101	10	12 & 30	
(P)102	20	12 & 30	
(P)122	10	12	
146	2	53A	
147	1	"	
(P)258	4	30	
(P)259	10	12	
263	20	43A	No. 8 lamp caps
279 type	miscellaneous		
(P)281A	20	43A	
284A	2	53A	No. 498AD key
(P)290A	20	43A	
293A	2	51A & 53A	
(P)297A	17	12	
(P)298A	17	43A	
		<u>10-1/2 Inch Face</u>	
(P)123	20	12 & 30	
(P)125	10	12 & 30	
132	10	12	
		<u>11-3/16 Inch Face</u>	
(P)136	10	12	
(P)137B	20	12B	
144	20	12	
(P)282A	20	43A	
(P)282B	10	43A	
(P)289A	1	53A	
		<u>11-1/2 Inch Face</u>	
103	10	12 & 30	
104	20	12 & 30	
		<u>11-3/4 Inch Face</u>	
130	20	12 & 30	

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LAMP SOCKET MOUNTINGS

For Relay Rack Mounting etc.

<u>Code No.</u>	<u>Lamp Sockets per Mounting</u>	<u>Arranged for Lamp Sockets Nos.</u>	<u>Also Mounts</u>
(P)262	24	<u>17-13/16 Inch Length</u> 49A	No. 464 type keys
(P)280A	24	<u>17-15/16 Inch Length</u> 49A	
(P)267	10	<u>19 Inch Length</u> 50A	
(P)274A	20	<u>23 Inch Length</u> 50A	
<u>Miscellaneous Types</u>			
(P)287A	1	49A	
(P)288B	1	53A	
(P)291A	5	12	lamp caps
(P)301A	5	49	No. 498 type key

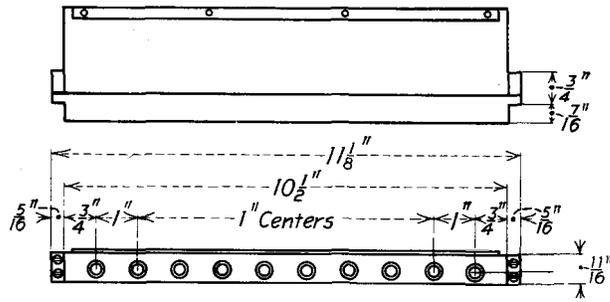
The apparatus listed below will mount in jack mountings in place of singly mounted jacks, on mounting centers as listed.

<u>Codes</u>	<u>Mtg</u>	<u>Centers</u>	<u>Arrangement of</u>
	<u>Hor.</u>	<u>Vert.</u>	<u>Mtg. Lug</u>
547A key	5/8	(a)	A
547B key	5/8	(a)	A
552A,E,G key	5/8	(a)	A
552B,D,H key	3/4	(a)	A
552C key	1	(a)	A
576A key	13/16	(a)	A
585A key	5/8	(a)	A
47B lamp socket	5/8	(a)	A

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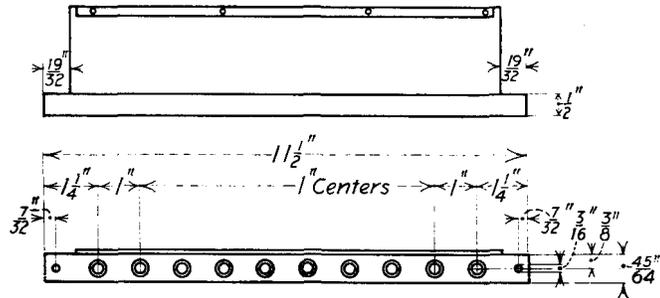
(a) 7/8 when mounted with lugs in same direction.  
 5/8 when mounted with lugs in opposite directions.



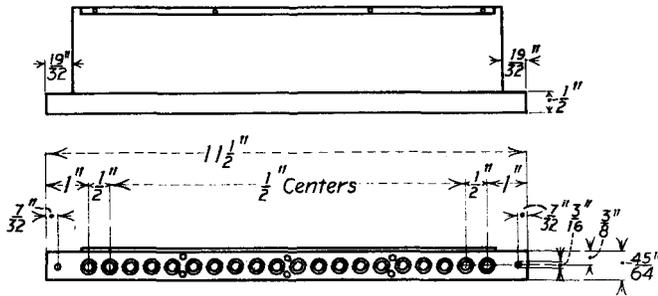


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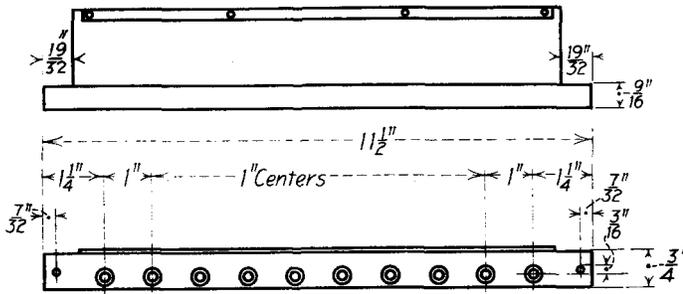
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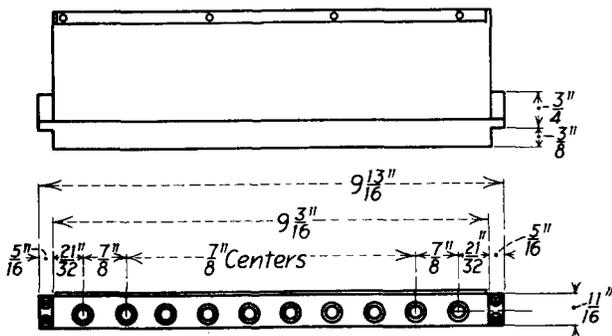
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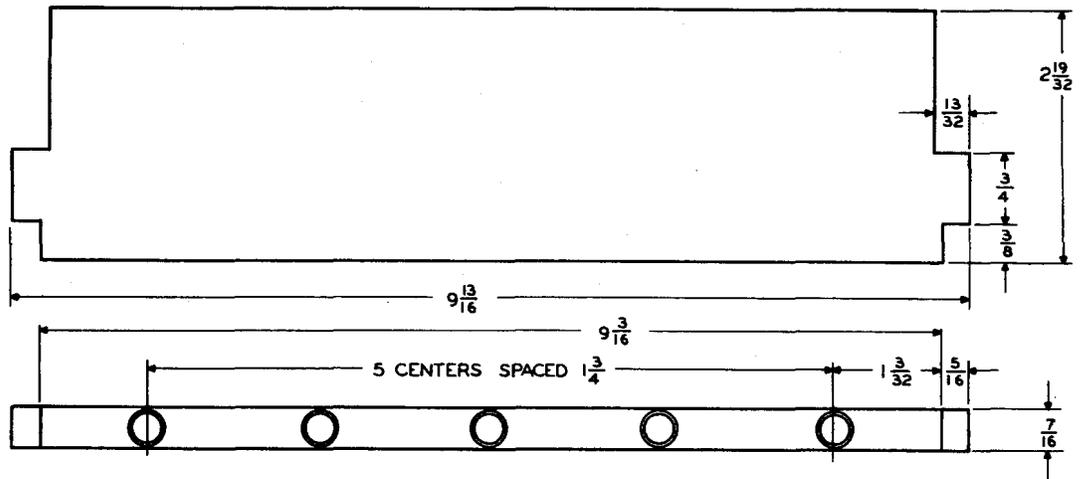
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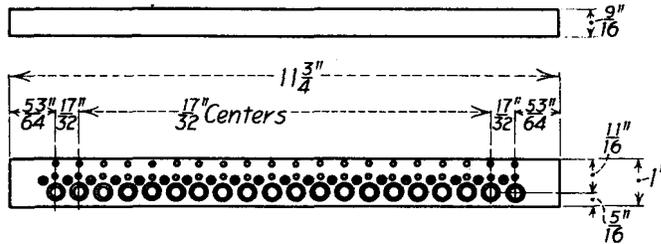


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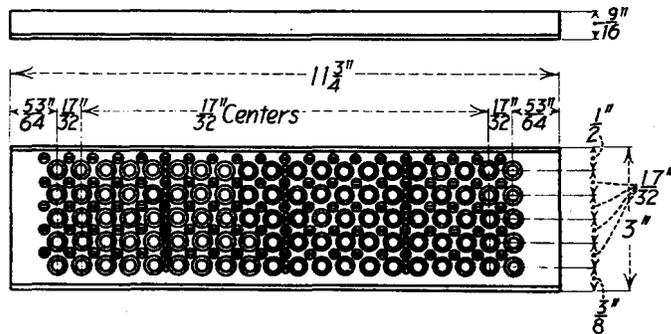


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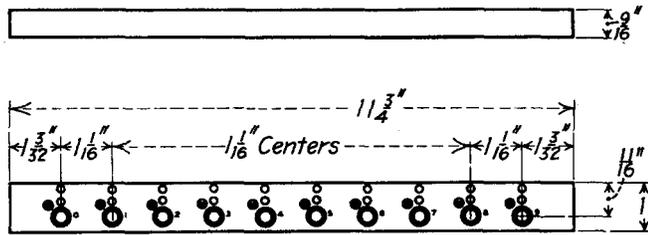
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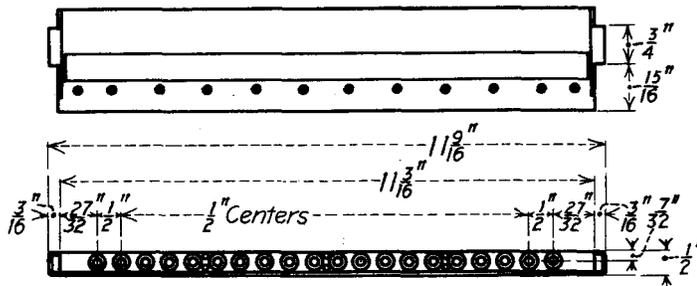
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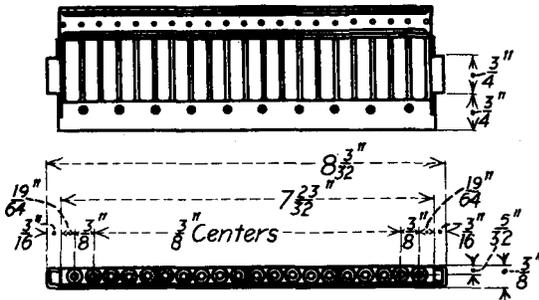
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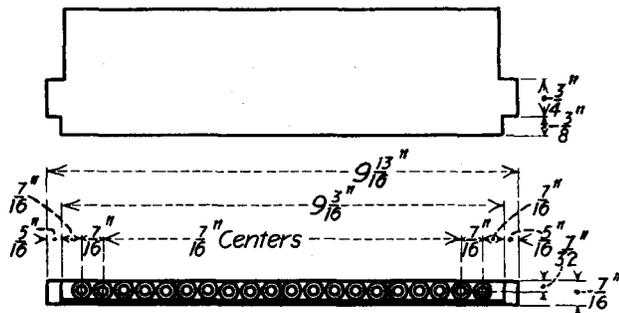
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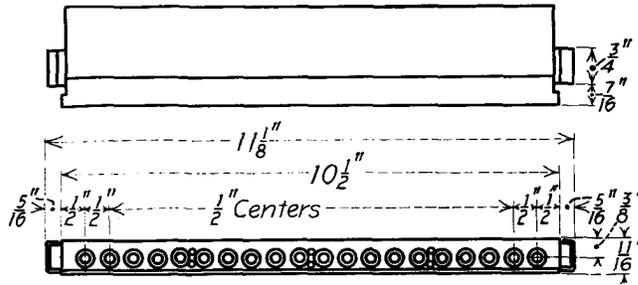
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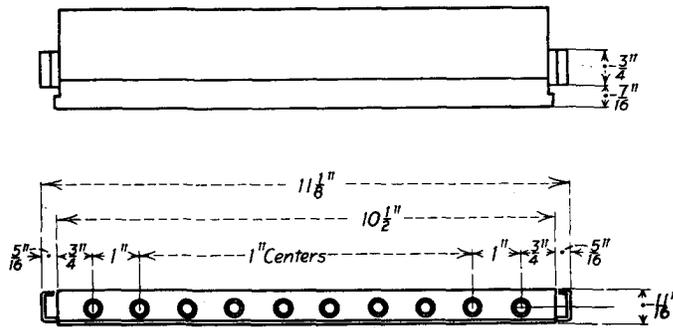
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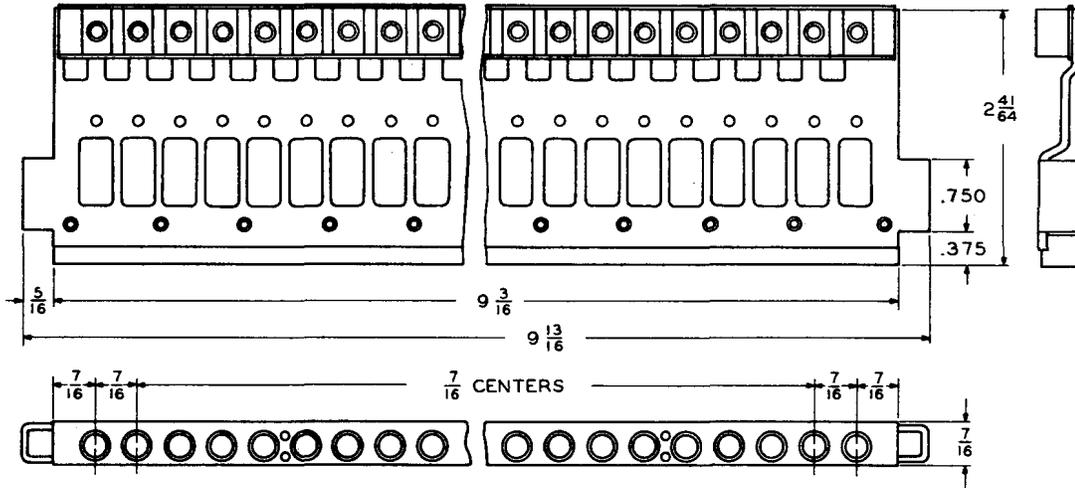


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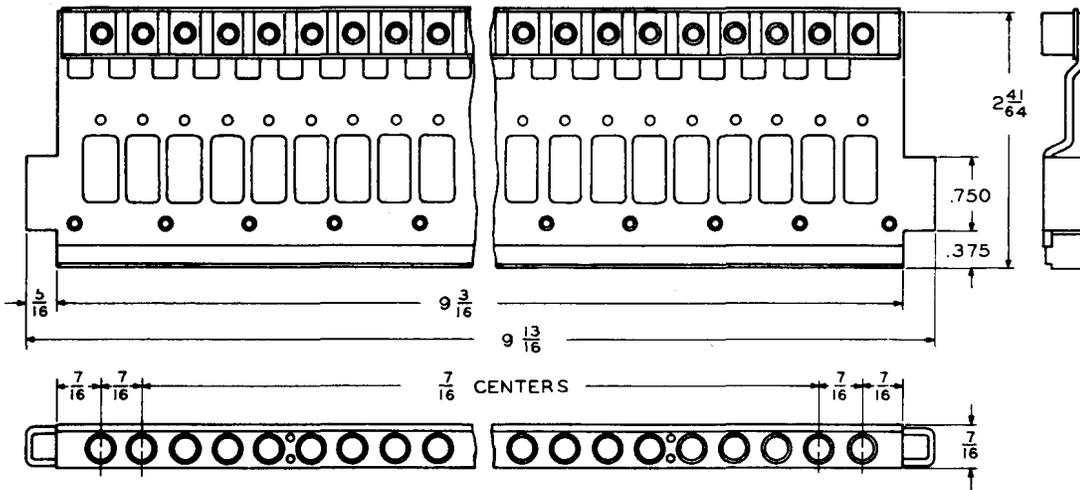


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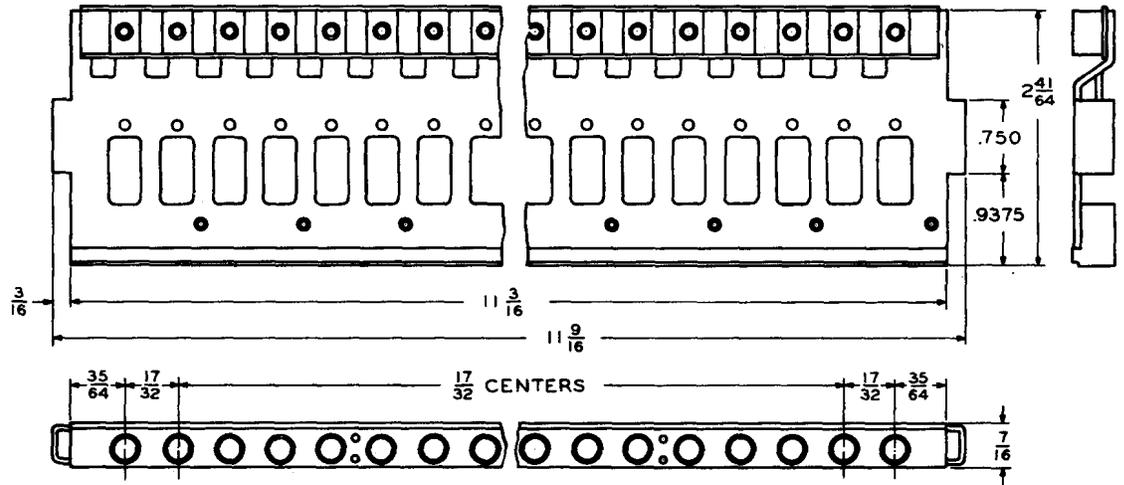
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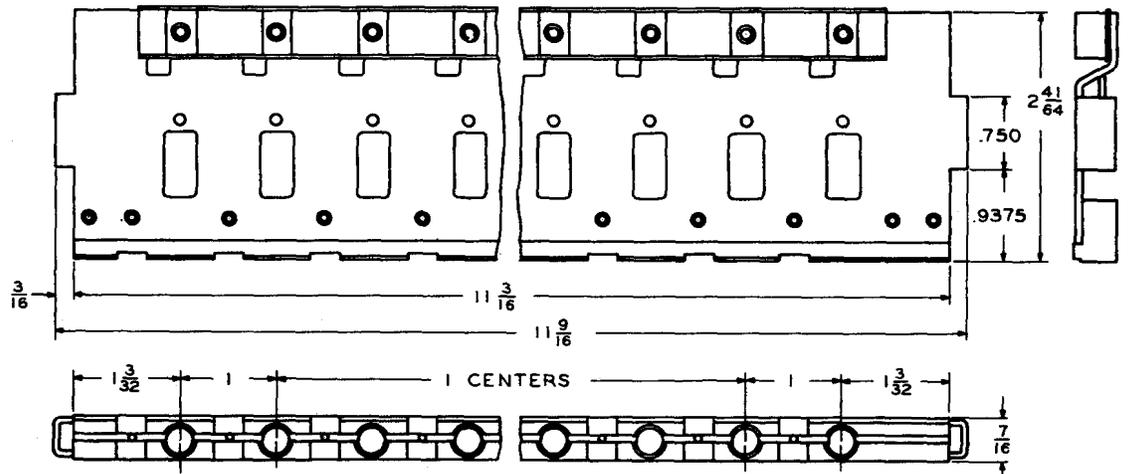


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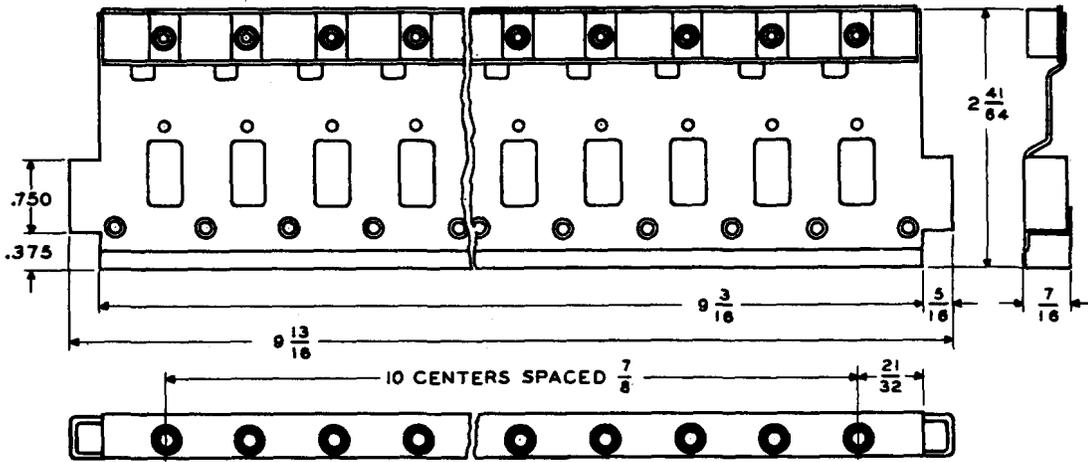


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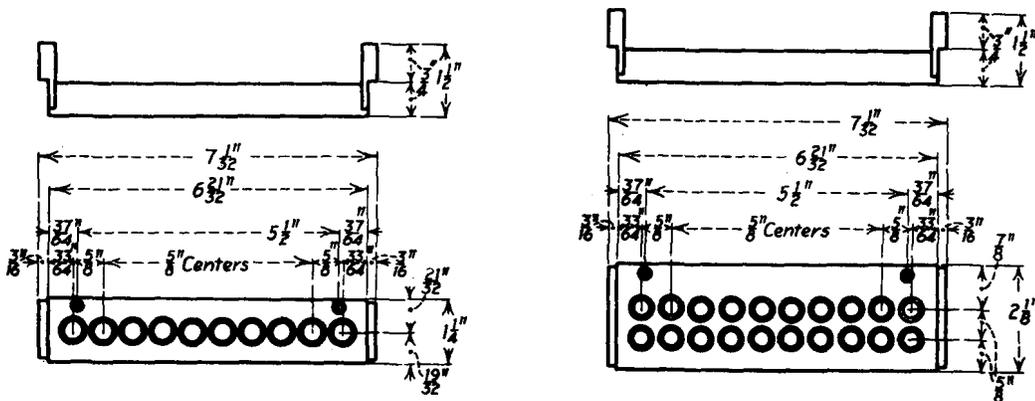
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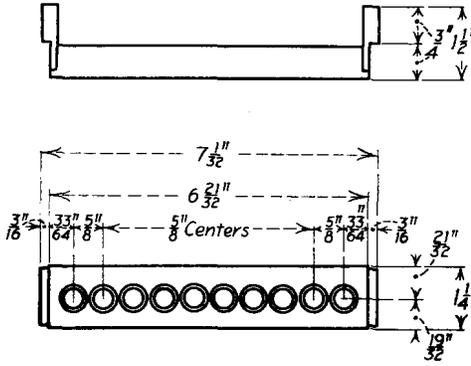


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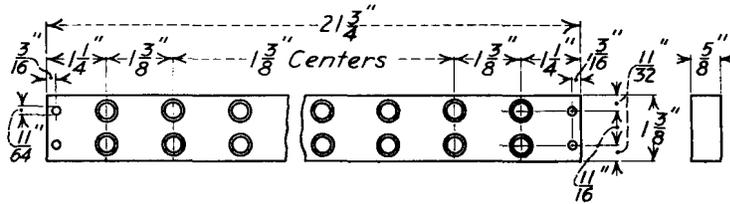
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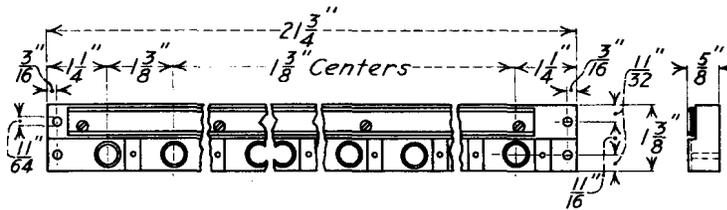


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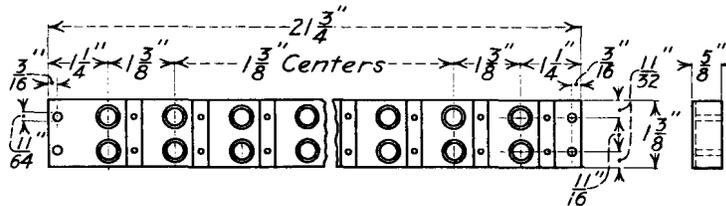
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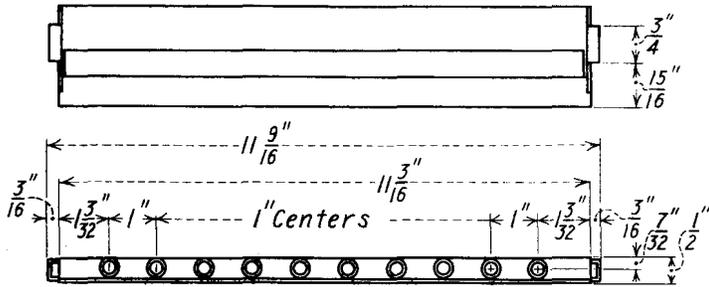
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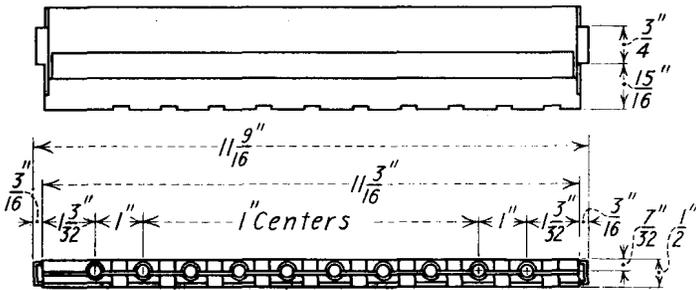
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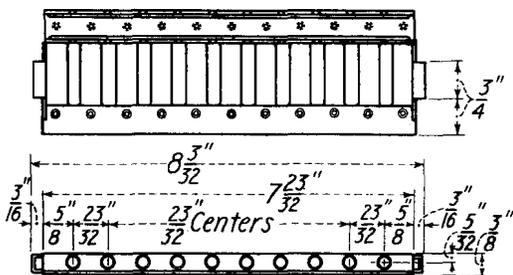
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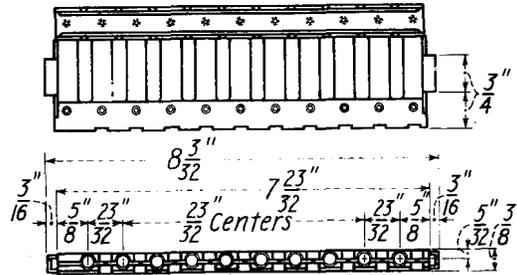
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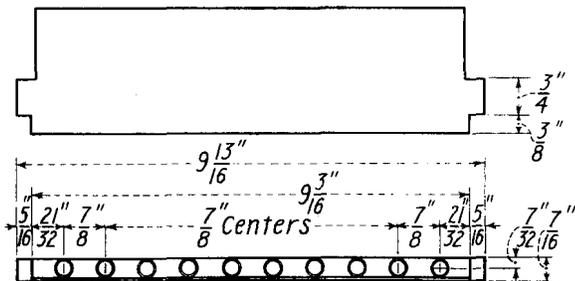
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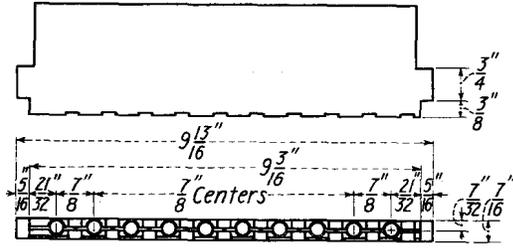
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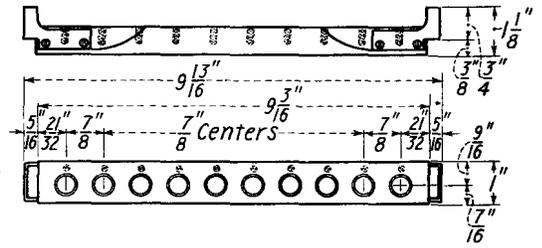
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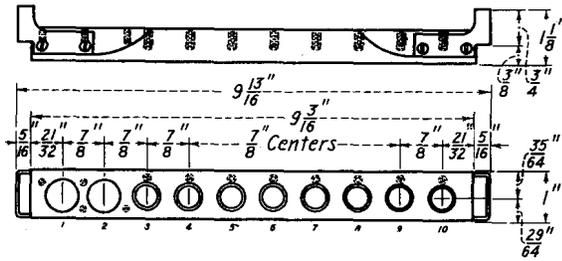
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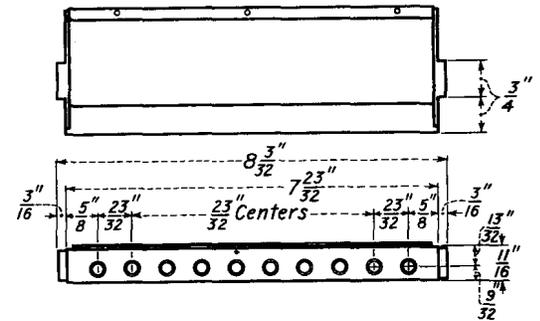
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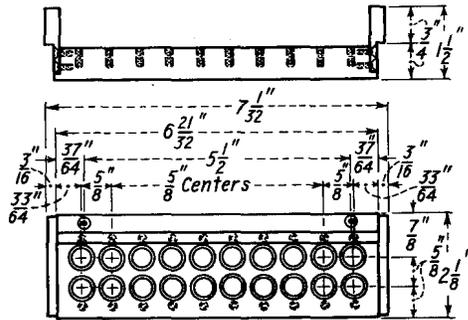
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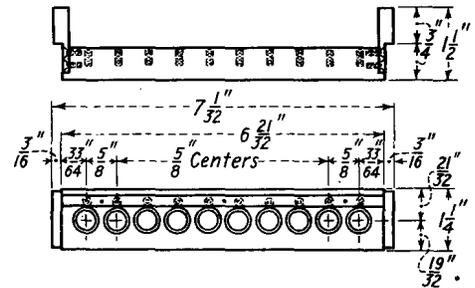
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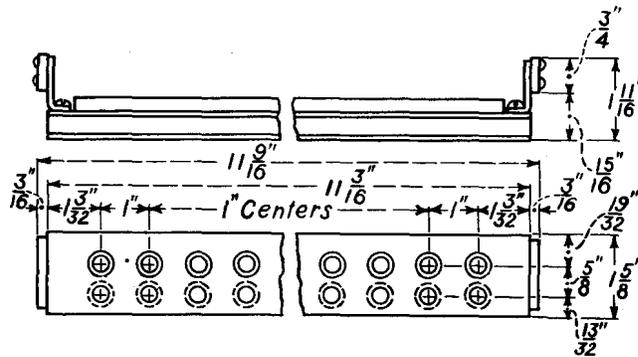
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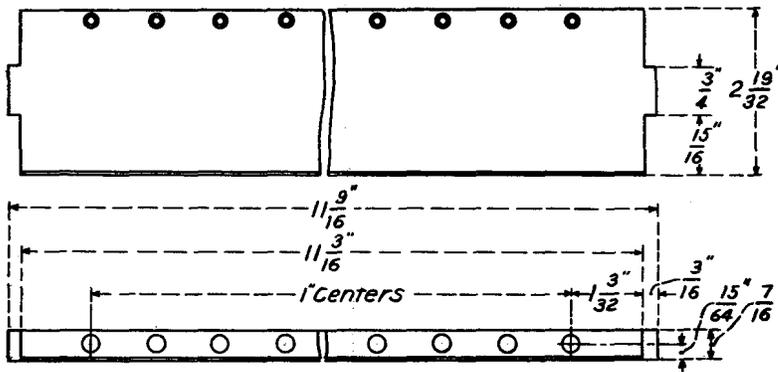


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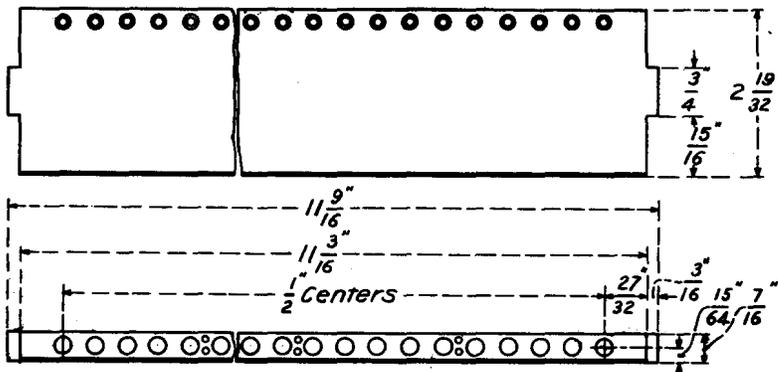


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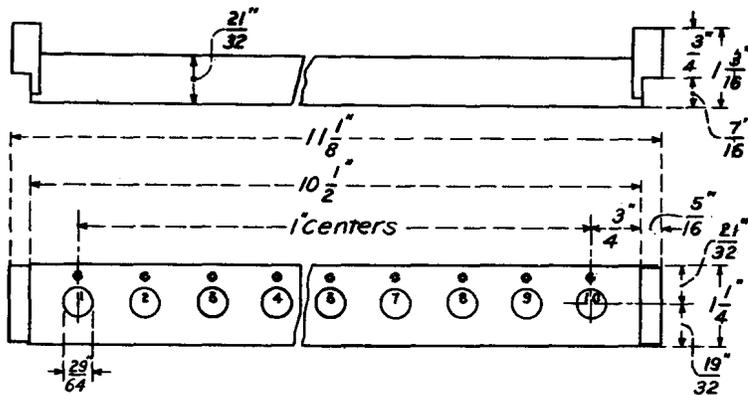
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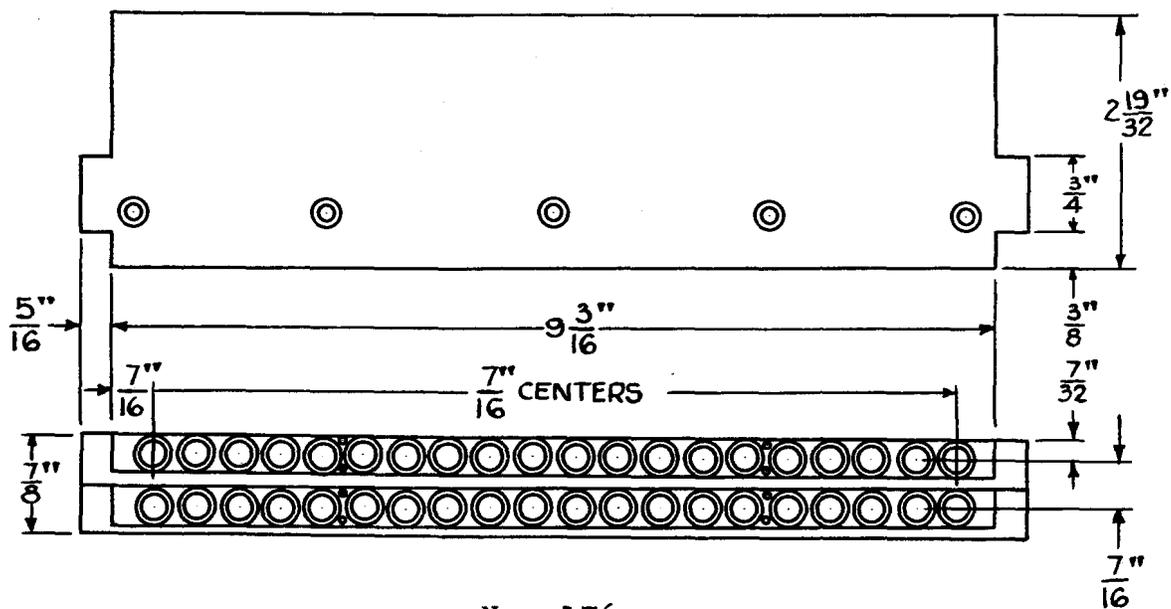
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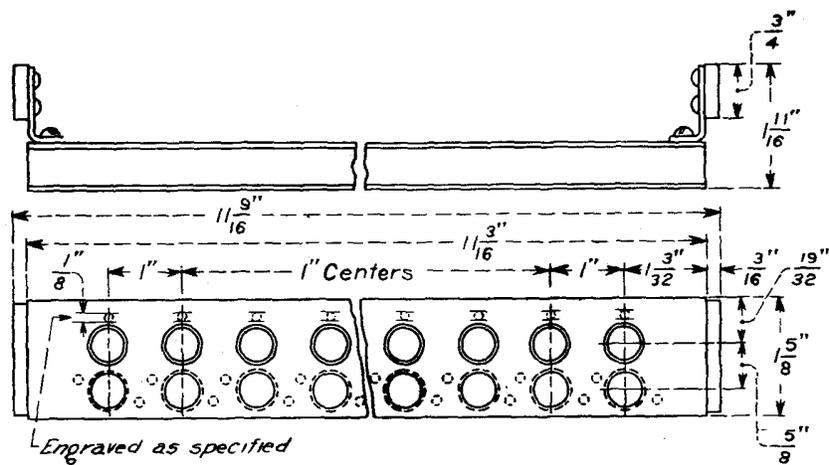
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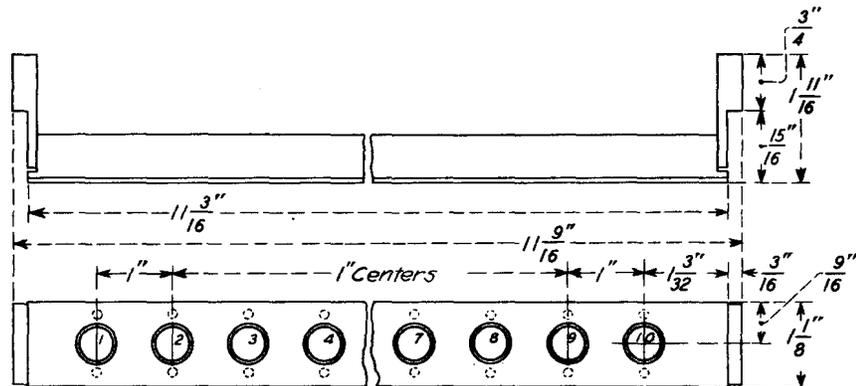
ILLUSTRATIONS

JACK MOUNTINGS FOR SWITCHBOARDS

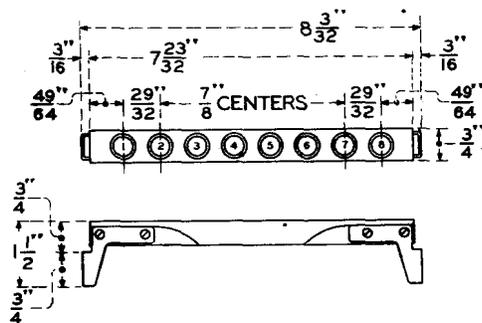


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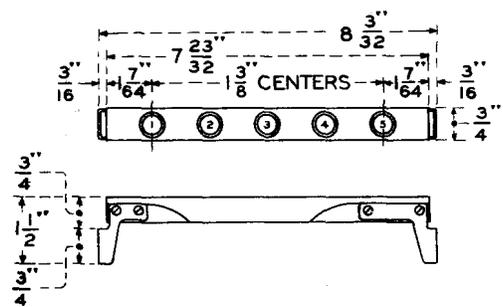
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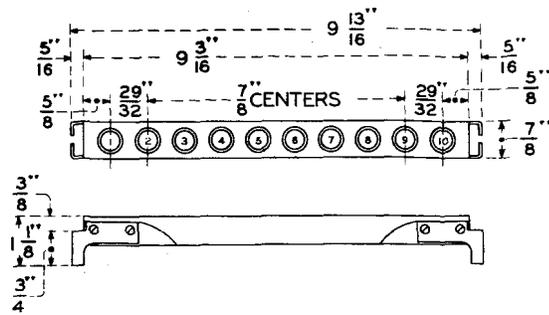
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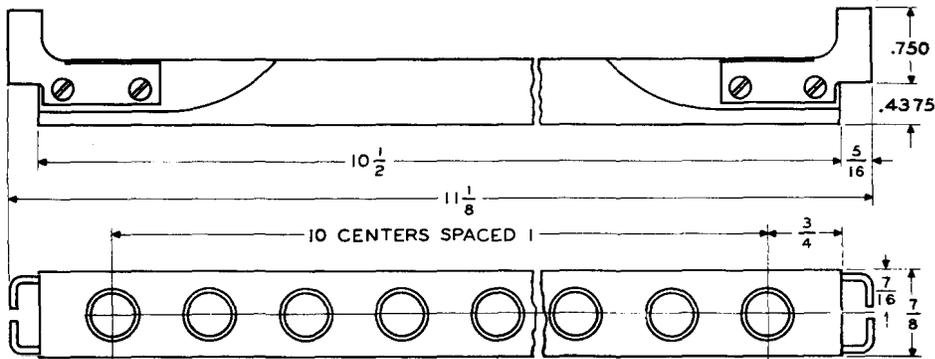
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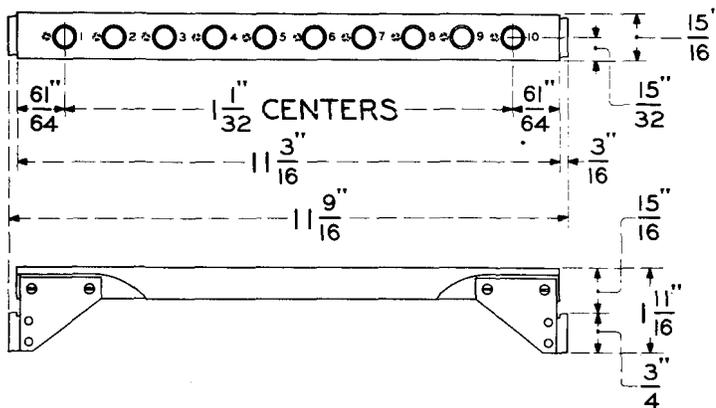
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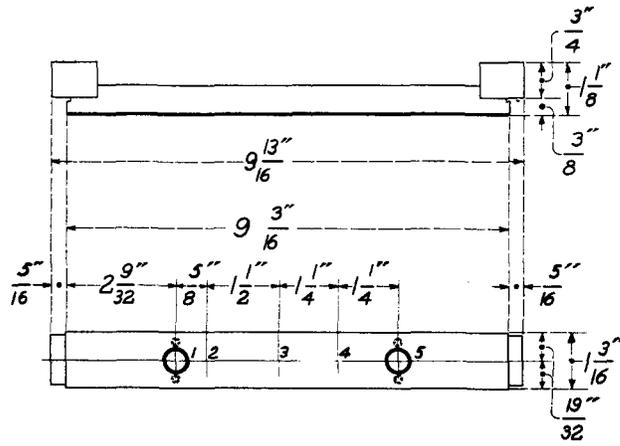
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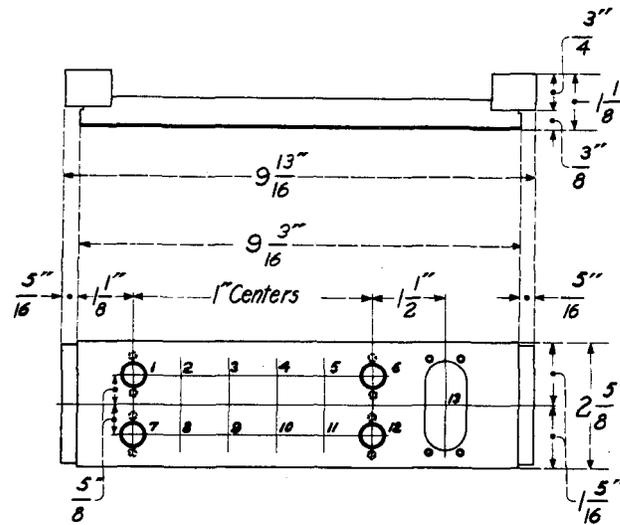


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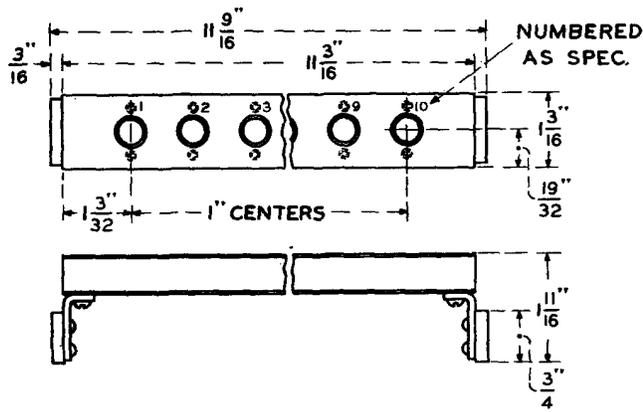


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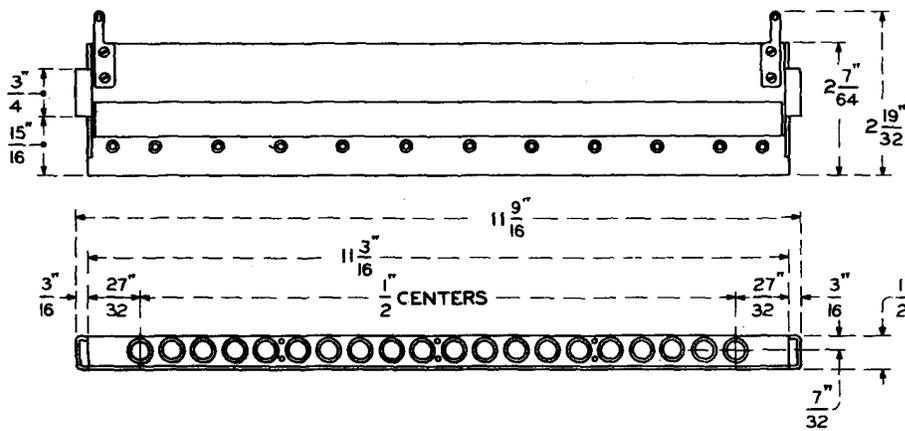
X-75500



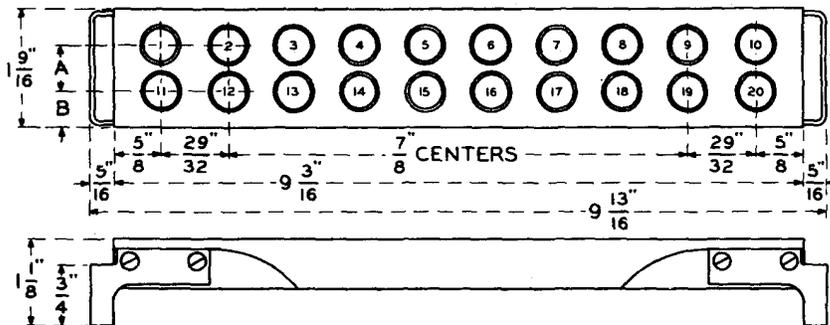
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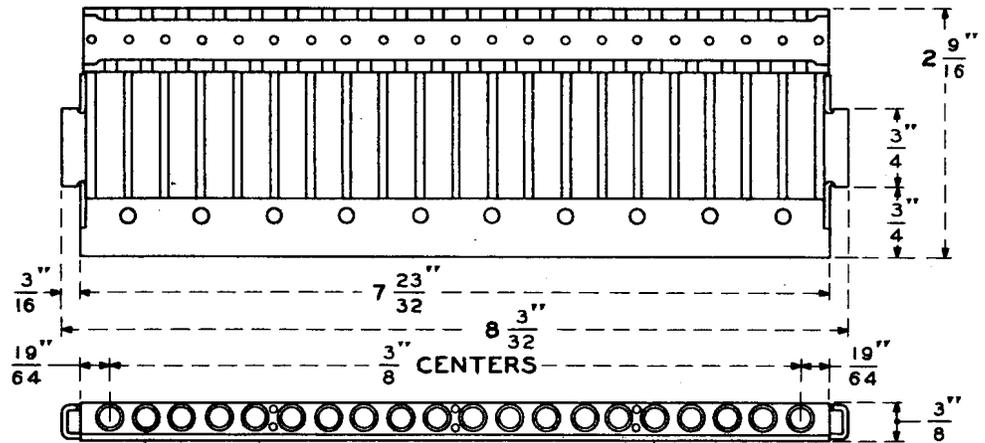
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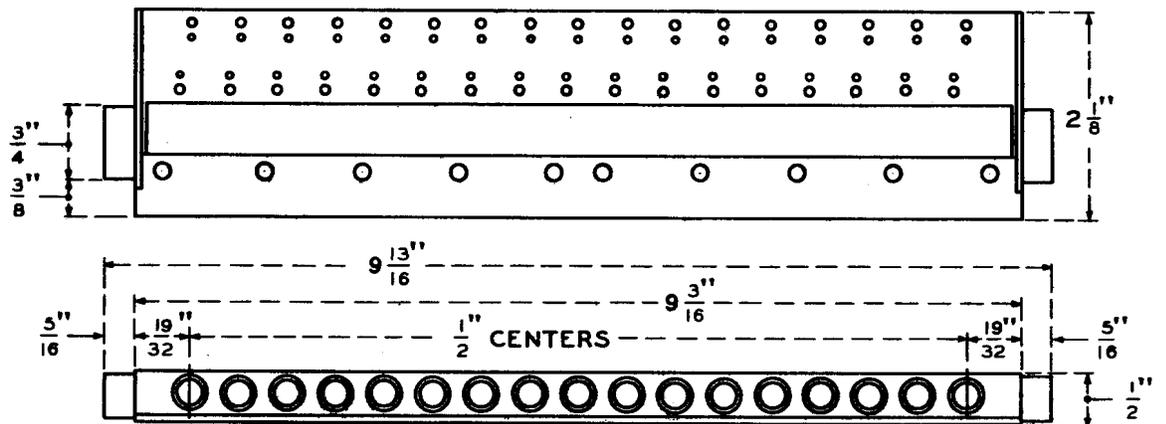
No. 217A



Nos. 218 A and B



No. 228A



No. 232A

X-75500

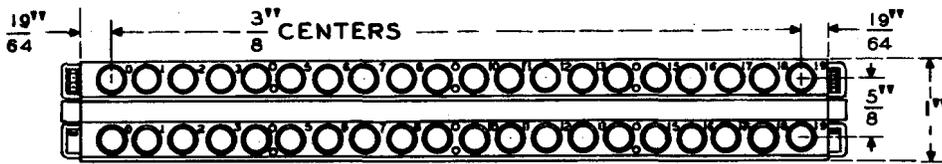
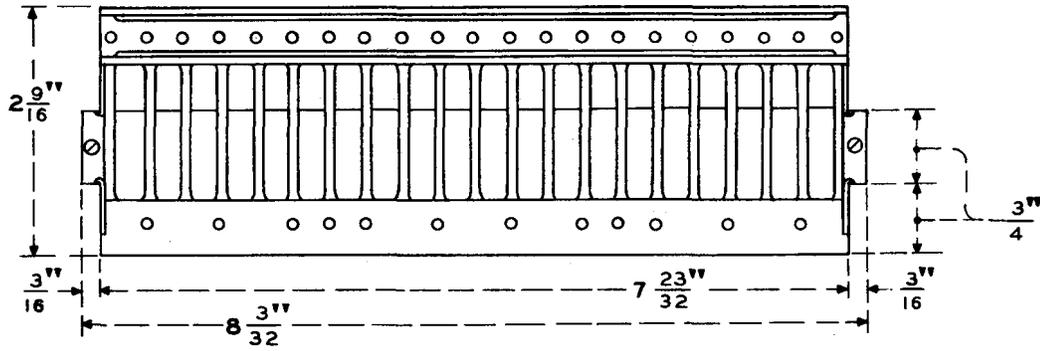


Fig. 1

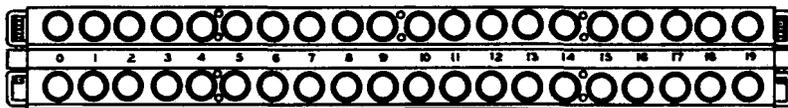


Fig. 2

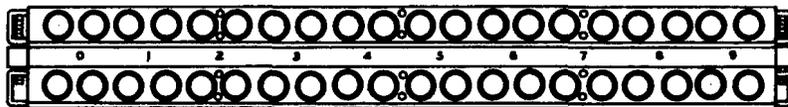


Fig. 3

No. 234A

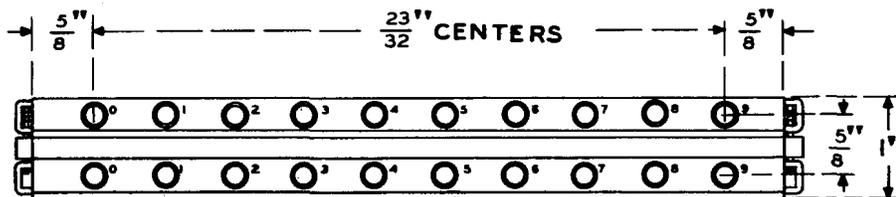
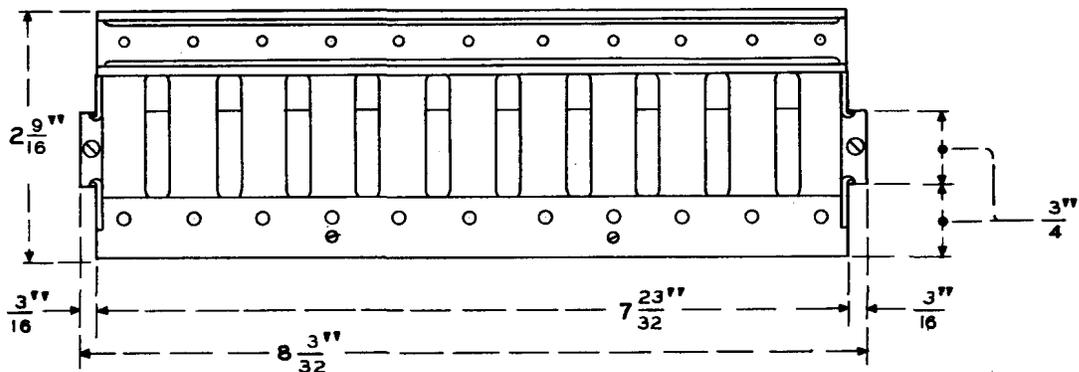


Fig. 1

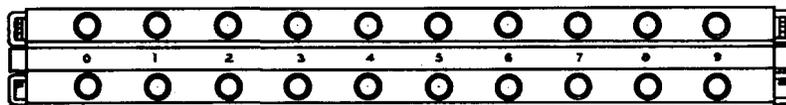
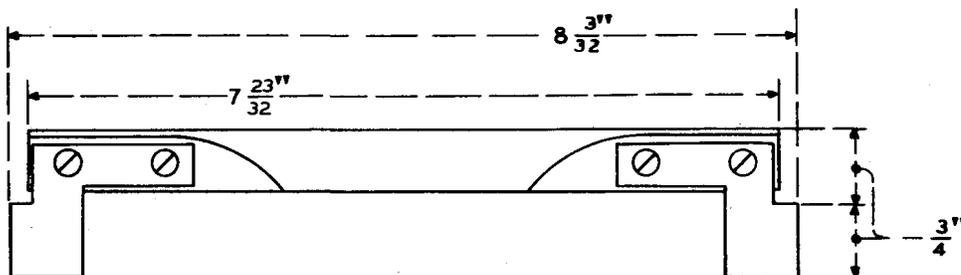
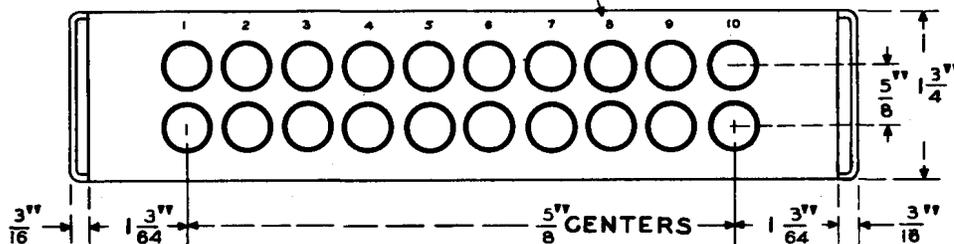


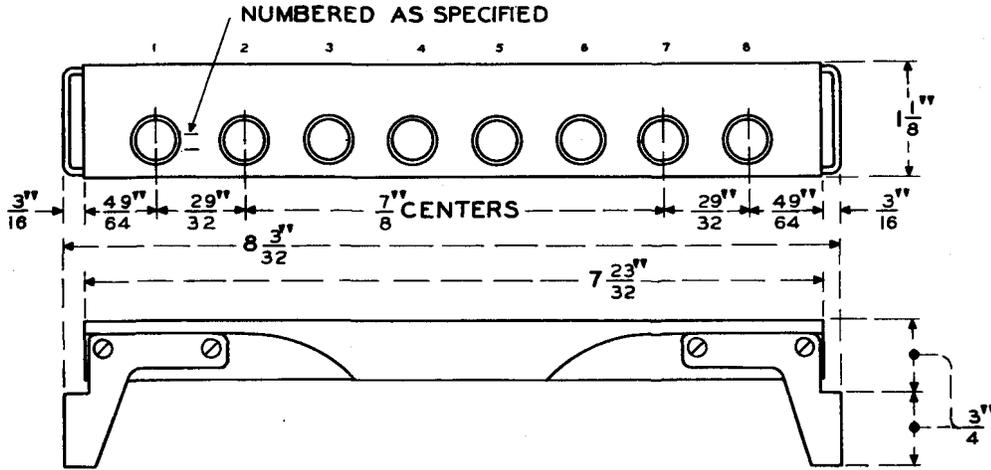
Fig. 2  
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POSITION NUMBERS ARE FOR REFERENCE ONLY

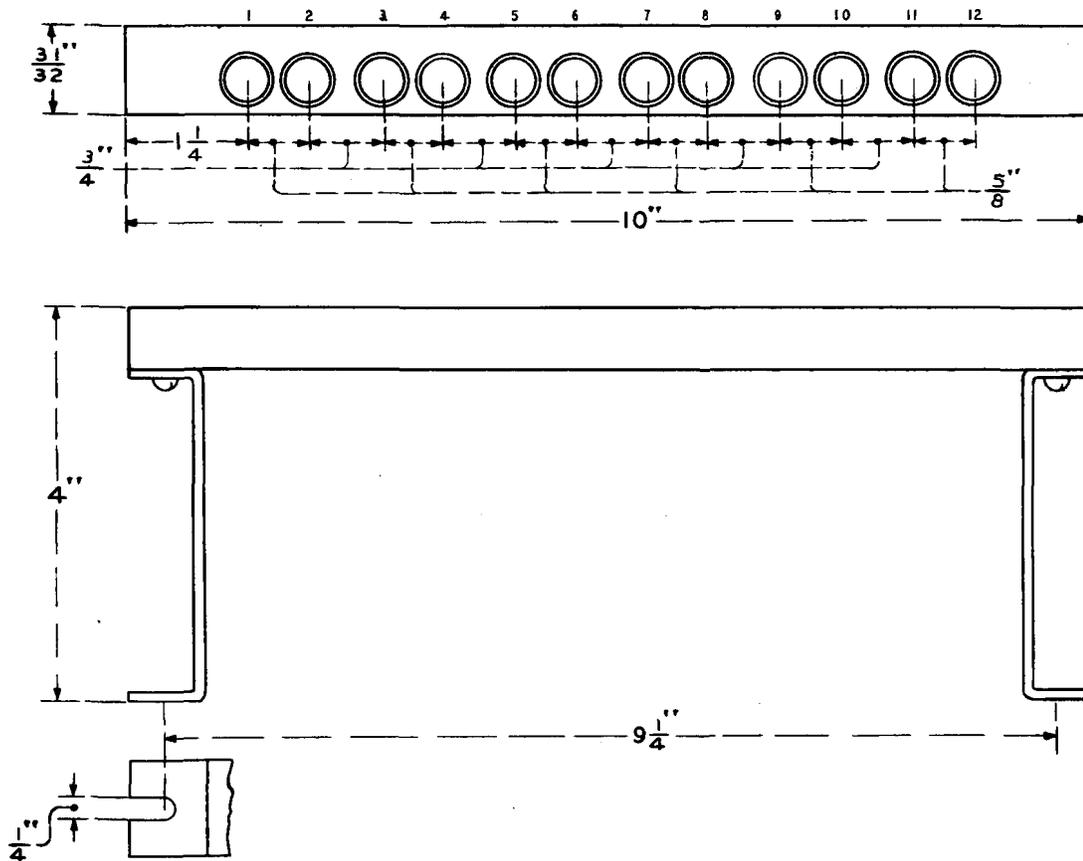


No. 236A

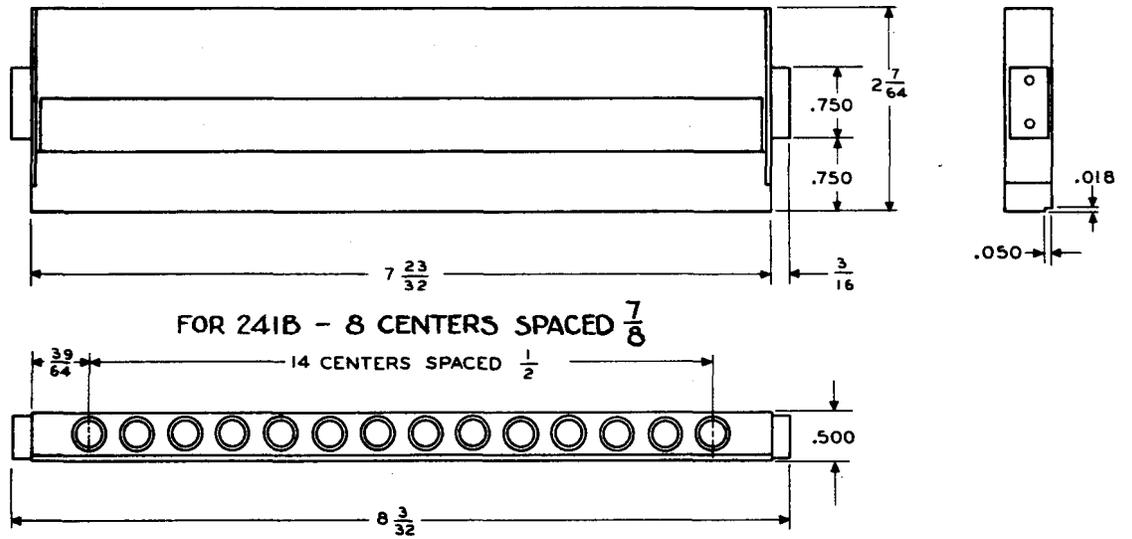
X-75500



No. 238A

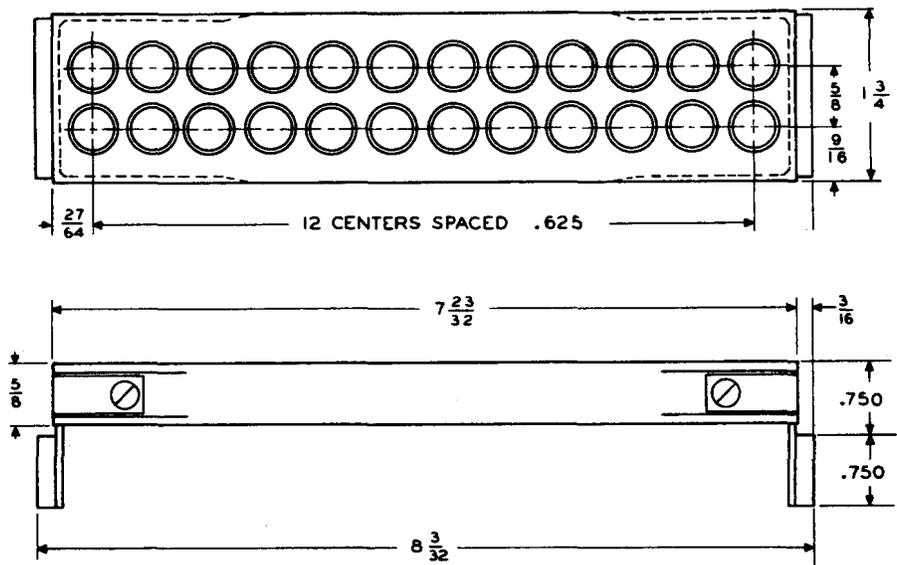


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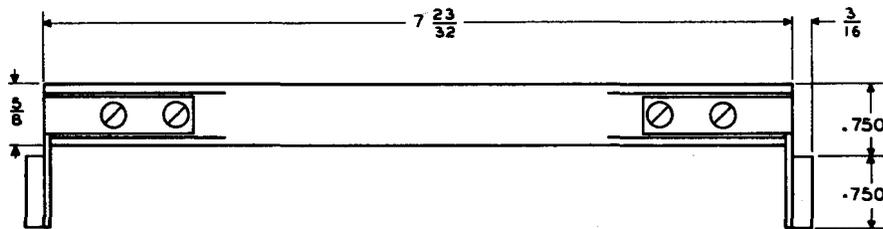
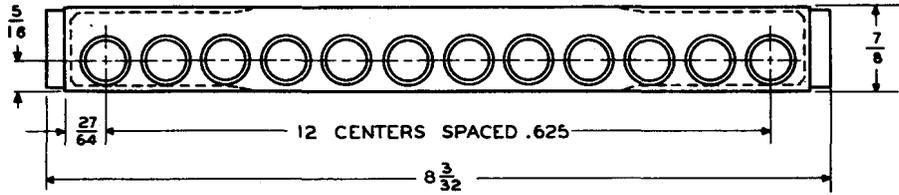


No. 241A & B

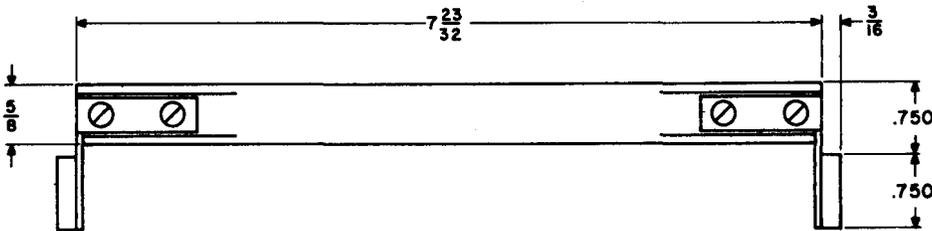
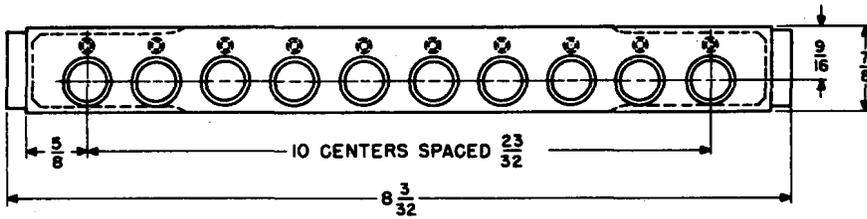
X-75500



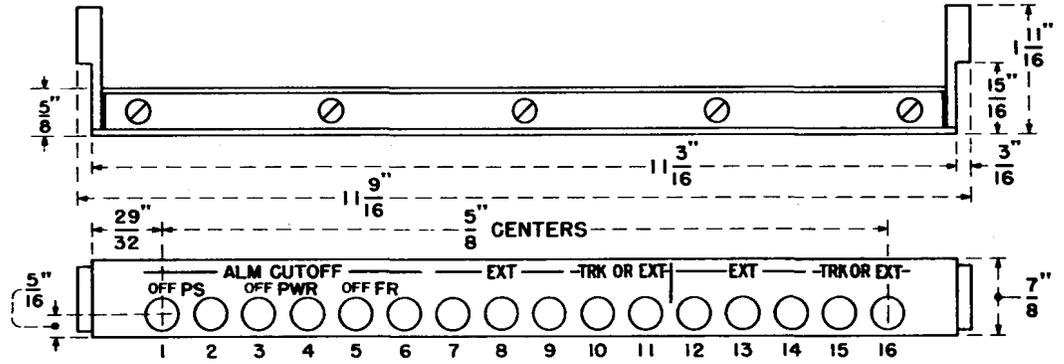
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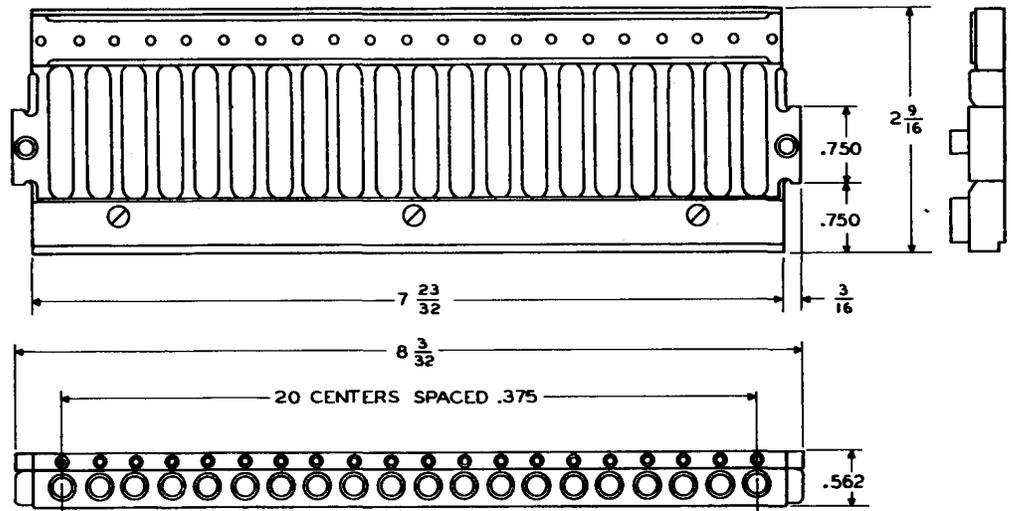
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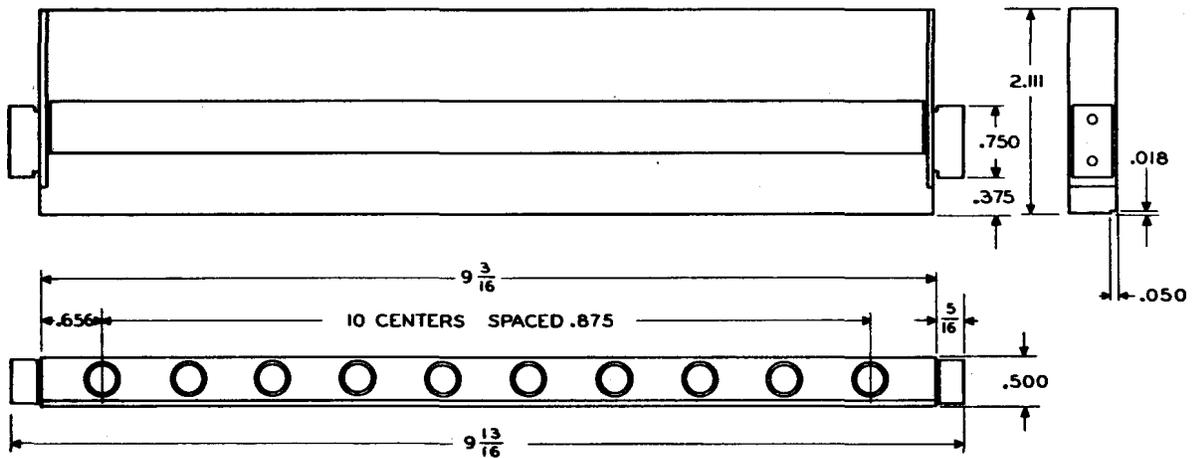
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No. 244A

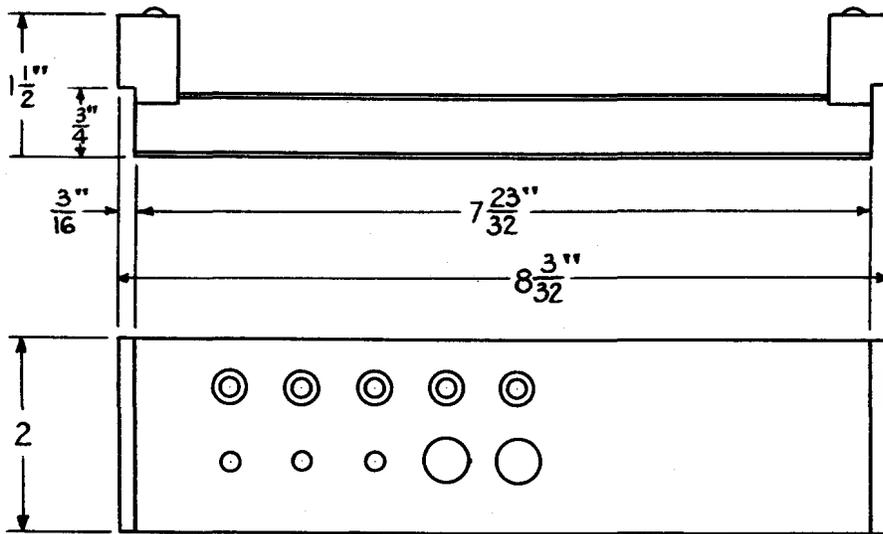


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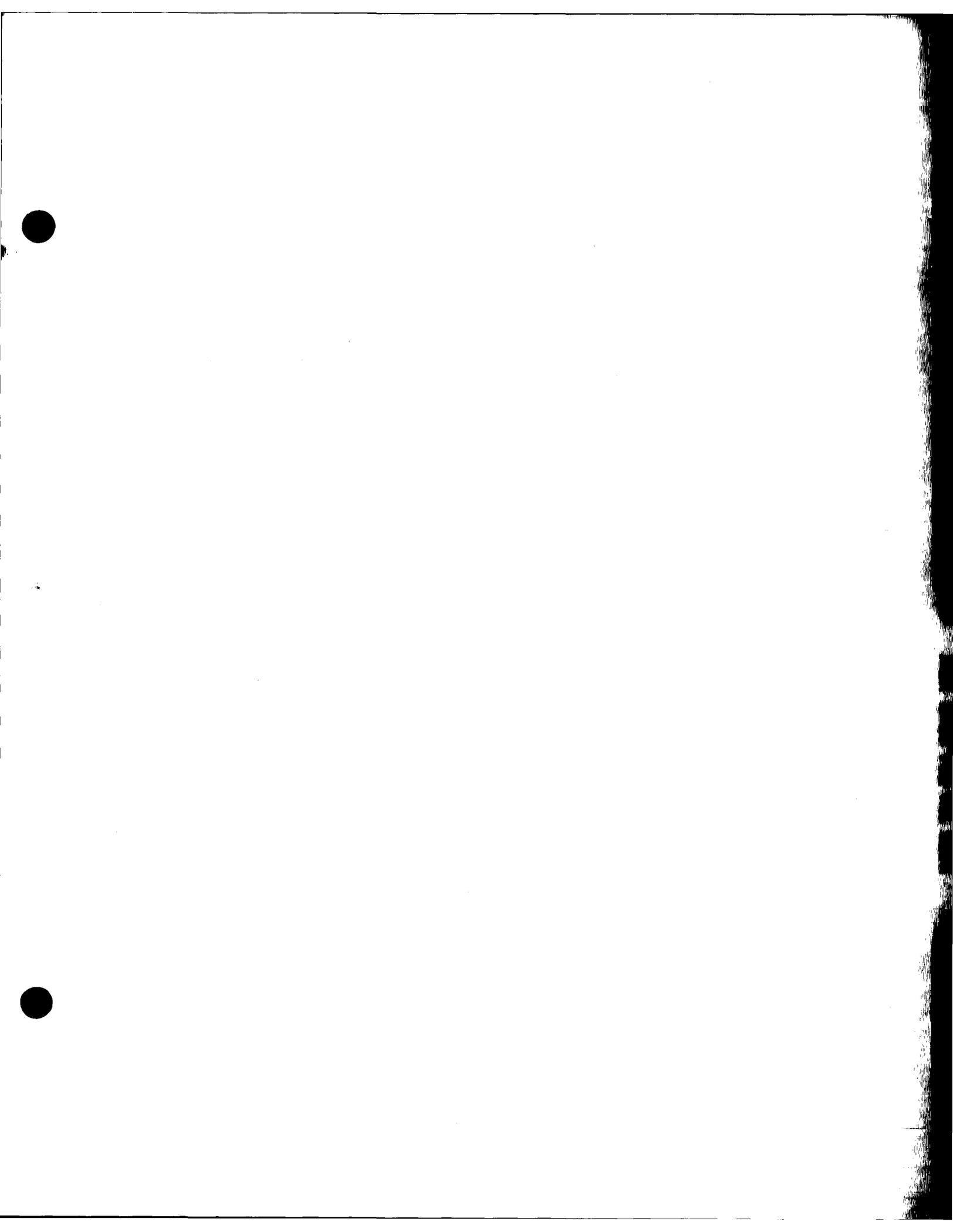


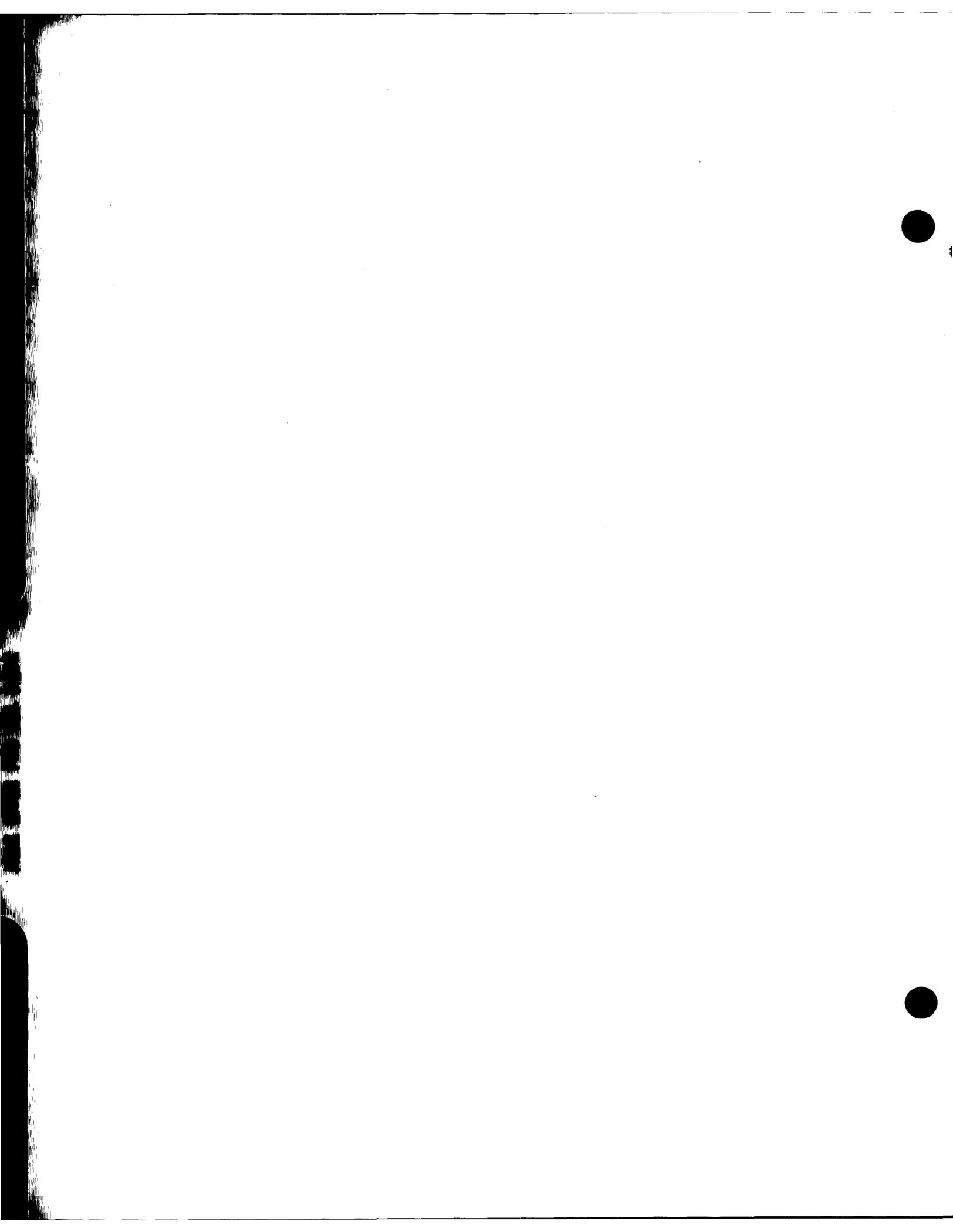
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X-75500



No. 254A





SECTION VII

JACK MOUNTINGS FOR RELAY RACKS

X-75500

1-15-52

VII-1

JACK MOUNTINGS FOR RELAY RACKS

Length 17-15/16"

<u>Jacks Per Mtg</u>	<u>Jack Mtg.</u>	<u>Jacks* Used</u>	<u>Notes (See VII-3)</u>	<u>Lamp** Socket Mtgs</u>	<u>Desig. Strip</u>	<u>Jack Spaces</u>	<u>Illustrations (Page)</u>
24	184 227A	218A 218A	c,ab,ad aa,ab,ac	262	-	62,63	VII-7 VII-10
48	185	218A	c,aa,ab				VII-7

Length 19"

10	(P)210A	245A,B	an	267A	-	-	VII-9
20	(P)210B	239B	an	-	-	-	VII-10
26	(P)230B	218A	ak,ay	-	-	168A	VII-11
40	(P)230E	218A	ak,al,ay				VII-12
52	(P)230A	218A	ak,ay				VII-11
	(P)230C	218A	ak,at,ay				VII-12
	(P)230D	218A	ak,at,ay				VII-11
	(P)240A	218A	am,ay				VII-14
	(P)256A	477	bb		99A,B		VII-16

Length 21-15/16"

60	206A	239A	ab,ap	-	-	-	VII-8
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\*For additional singly mounted jacks, see Introduction.  
For apparatus which can be mounted in place of jacks, see Page VI-15.

\*\* For additional lamp socket mountings, see Page VI-14.

NOTES

- c - Numbered as per order.
- aa - Arranged to mount two No. 127A number plates and a No. 89B or 90A designation strip.
- ab - Arranged to mount with No. 25 or 27A jack fasteners.
- ac - Arranged to mount No. 315 plug.
- ad - Arranged to mount two No. 23D number plates and a No. 89B or 90A designation strip.
- ak - Arranged to mount two No. 153 type number plates and Nos. 99 type and 103 type designation strips.
- al - Arranged to mount six pin-type jacks also.
- am - Arranged to mount two No. 155 number plates, and No. 99 type designation strips.
- an - Arranged to mount No. 8L designation strip.
- ap - Arranged to mount two No. 127A number plates a a No. 90C designation strip.
- at - No. 230C is equipped with locking strip to engage brackets on Nos. 327B, C, and D plugs. No. 230D is provided with guide-pin holes for polarizing a 4-finger plug such as the No. 315A plug.
- ay - May be mounted on relay racks by means of P451037, -8, or -9, when desired.
- bb - Also arranged to mount 26, 465-type Jacks in place of 52, 477-type Jacks.

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JACK MOUNTINGS FOR RELAY RACKS

Length 23"

<u>Jacks Per Mtg</u>	<u>Jack Mtg.</u>	<u>Jacks* Used</u>	<u>Notes (See VII-5)</u>	<u>Lamp** Socket Mtgs</u>	<u>Desig. Strip</u>	<u>Jack Spaces</u>	<u>Illustrations (Page)</u>
10	(P)202A	366	ar	-	-	-	VII-8 VII-8
	(P)202B	366, 395A, 242A	as				
	(P)208A	241A,B	ah,az				VII-9 VII-9
	(P)208C	241A,B	ah,az				
20	(P)208B	241A,B	ah,az	47B	-	-	VII-9 VII-14 VII-15
	(P)245A	241A,B					
	(P)249A	241A,B	ay				
19	(P)192A	241A,B	aj	-	-	-	VII-7
40	(P)231B	218A	ae,ay	-	100C	-	VII-13
42	(P)246A	238A, 284A	af	-	-	-	VII-14
52	(P) 253A	218A	ae,ba	-	100B	-	VII-16
64	(P)231A	218A	ae,ay	-	100A,B	169A	VII-13
	(P)248A	218A	ag	-	100D,E	-	VII-15

\*For additional singly mounted jacks, see Introduction.  
For apparatus which can be mounted in place of jacks, see Page VI-15.

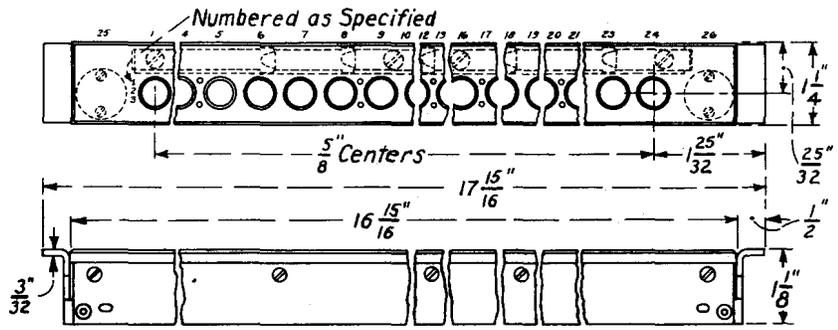
\*\*For additional lamp socket mountings, see Page VI-14.

NOTES

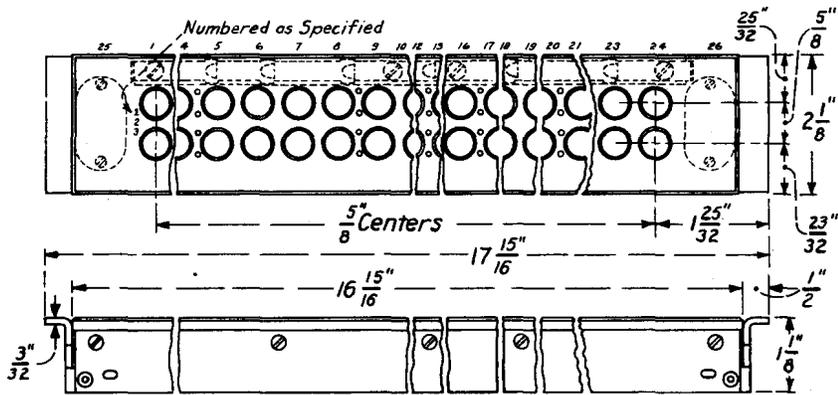
- ae - Arranged to mount No. 153 type number plates and No. 100 type designation strip.
- af - The even numbered positions in the upper row will also accommodate No. 284A jacks.
- ag - Arranged to mount No. 100 type designation strip.
- ah - Arranged to mount No. 50A lamp sockets or No. 498F keys in positions 2, 4, 6, etc.
- aj - Also mounts two No. 223 type jacks with C or D mounting arrangement
- ar - Has designation strip
- as - Has number plate holder. Arranged to mount five No. 366 jacks and five No. 242A jacks, or five No. 395A jacks and five No. 242A jacks, as specified in the order.
- az - Dimension A (see P. VII-9 ) is 2-27/32 for 208A; 2-27/32 for 208B and 3-23/32 for 208C
- ay - May be mounted on relay rack by means of P-451037, -8, or -9, when desired.
- ba - Arranged to mount 4, 501-type keys on right end also.

X-75500

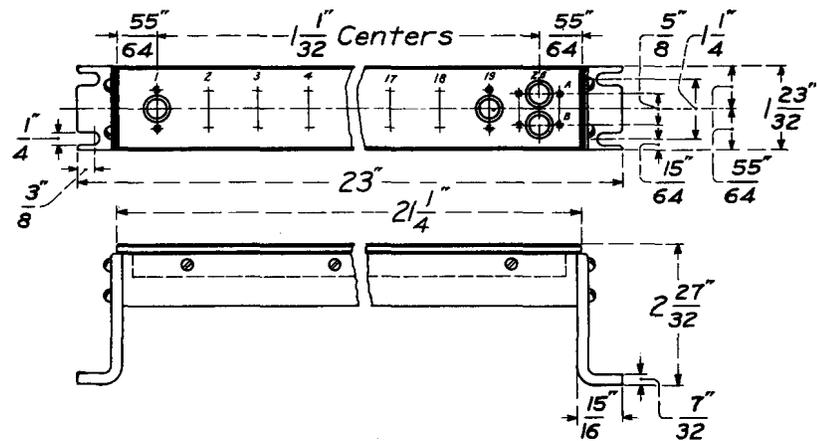




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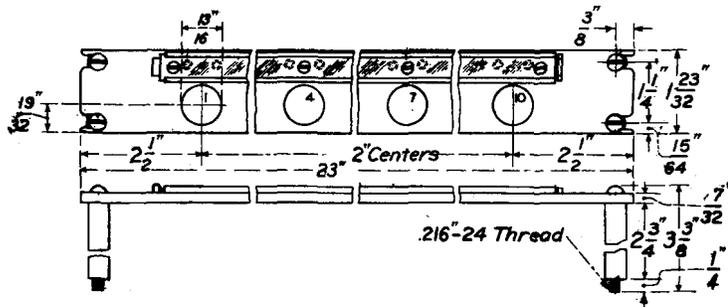


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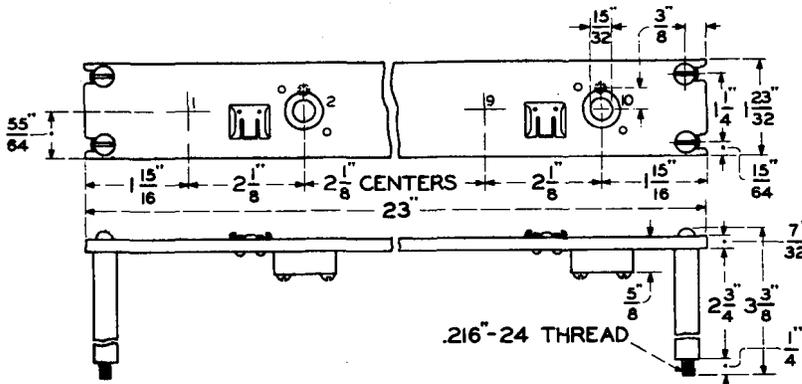


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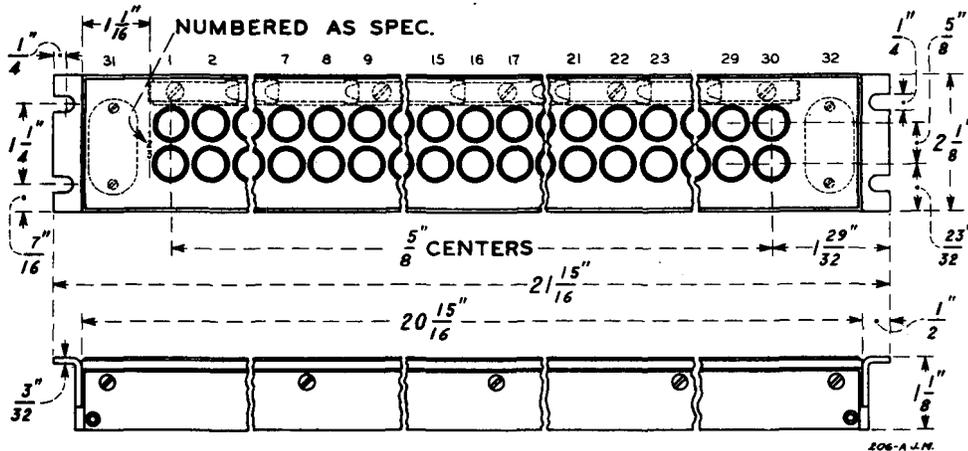
X-75500



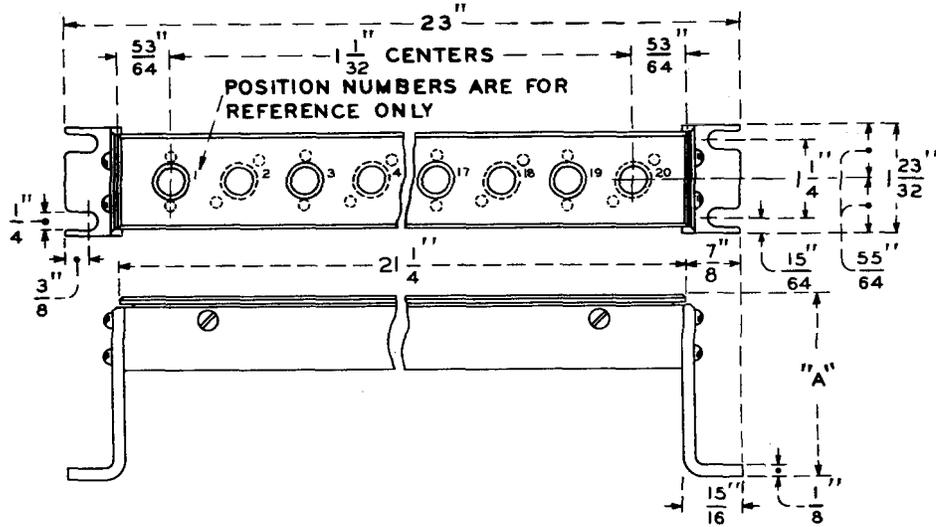
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No. 202B

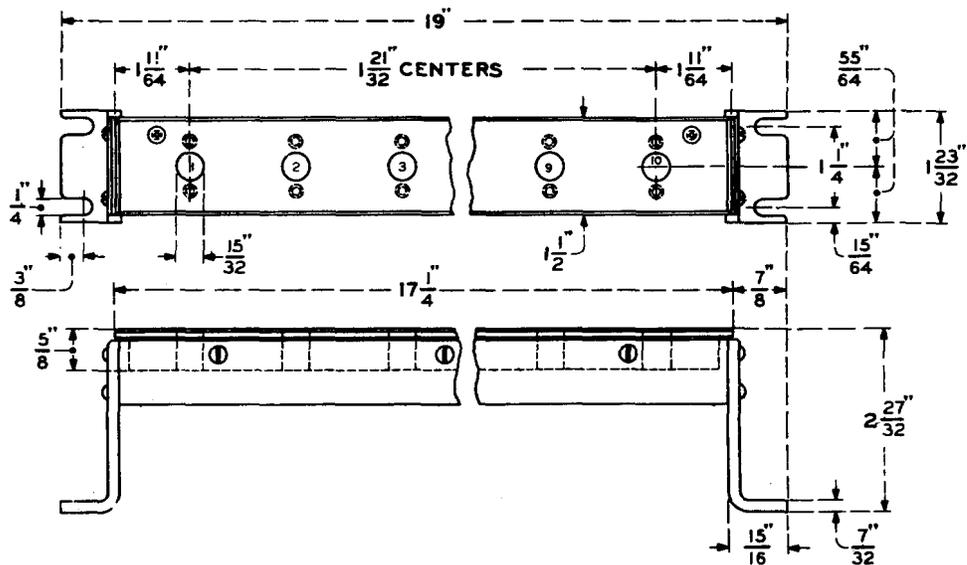


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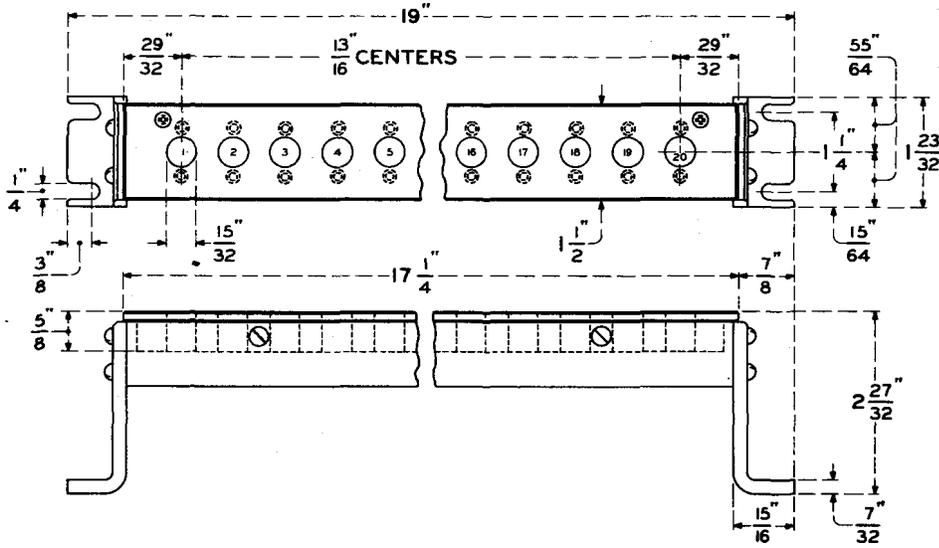


No. 208A and C  
Also General Design and Dimensions of No. 208B

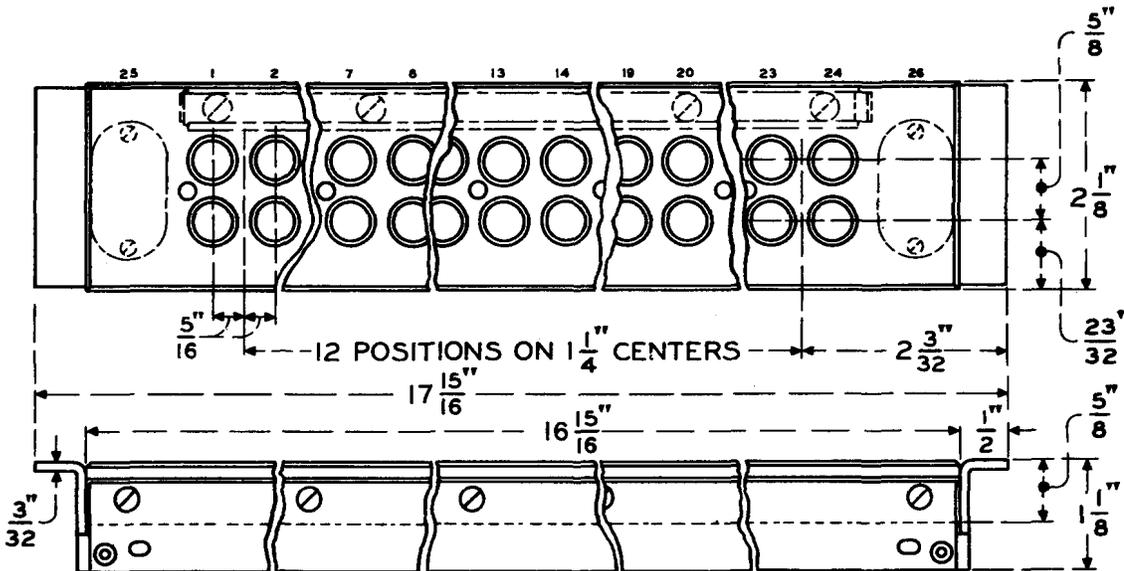
X-75500



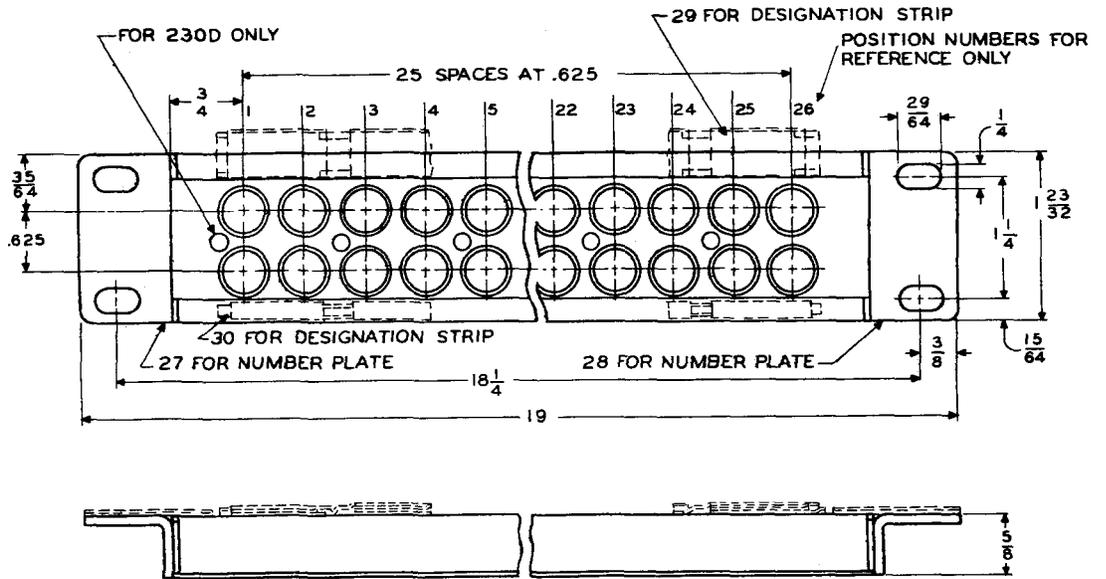
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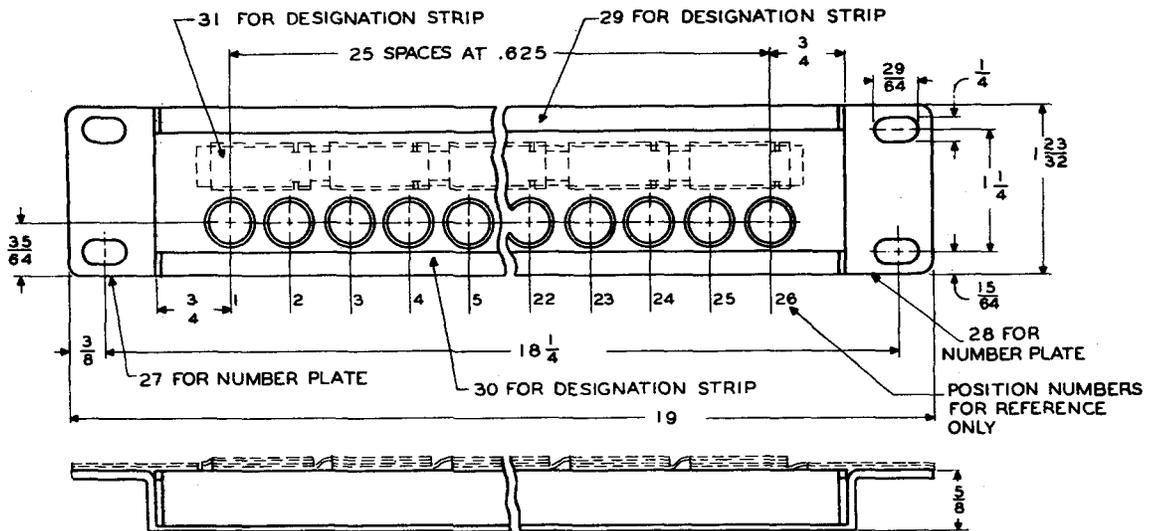
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No. 227A

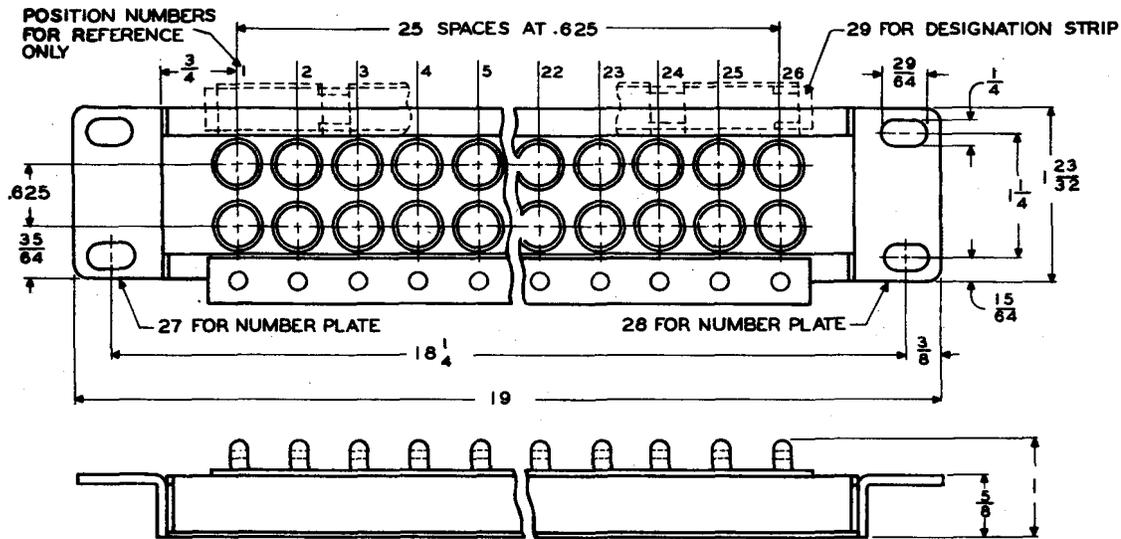


No. 230A and D

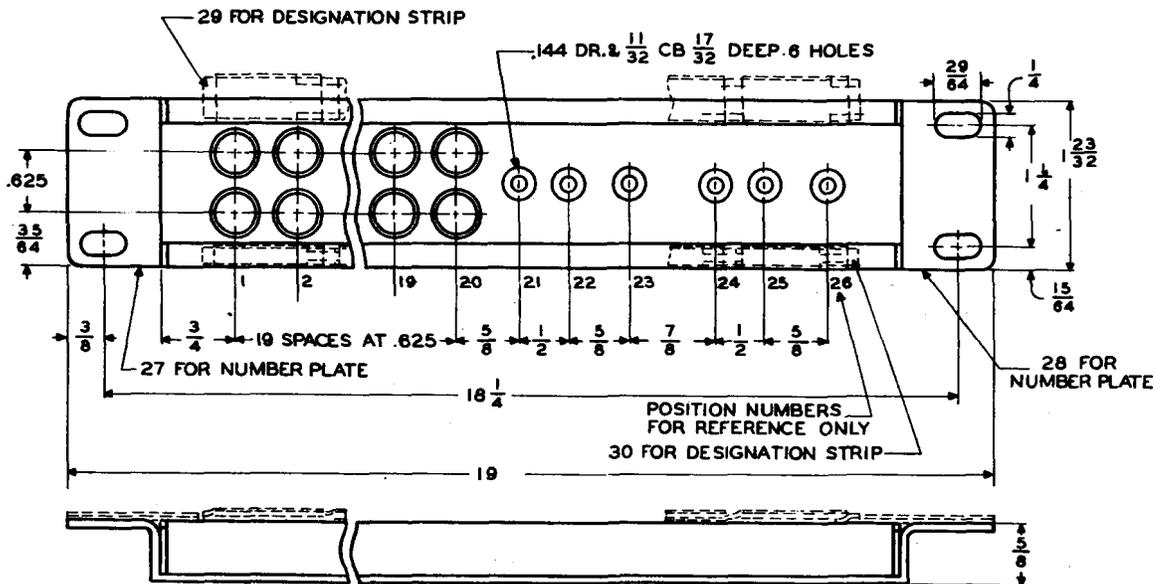


No. 230B

X-75500

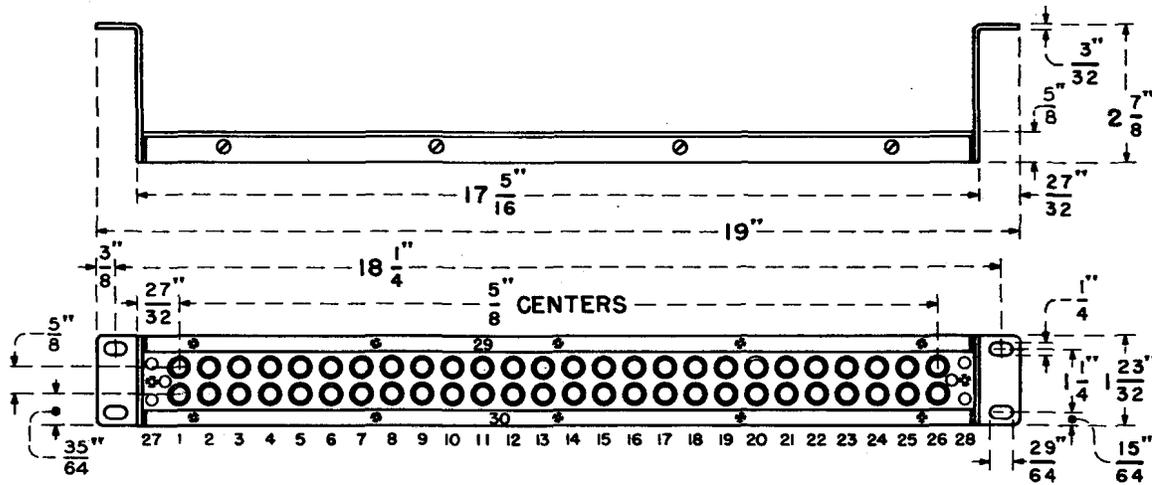


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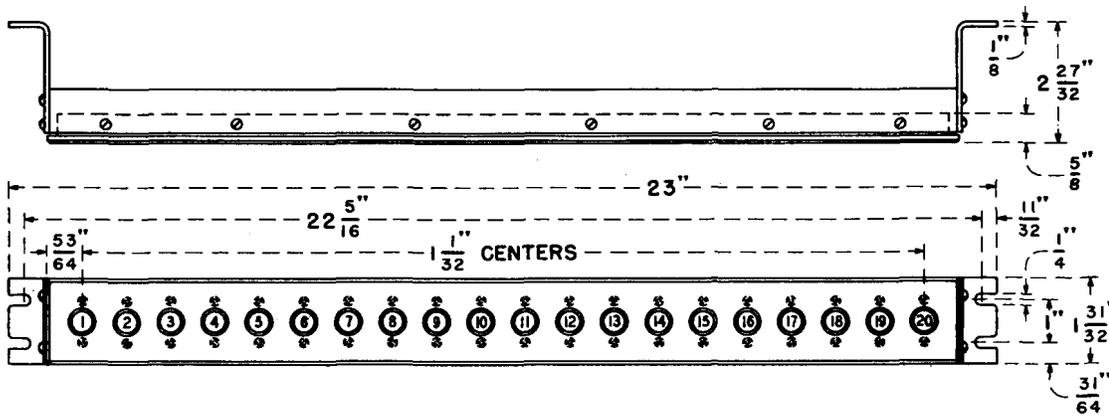


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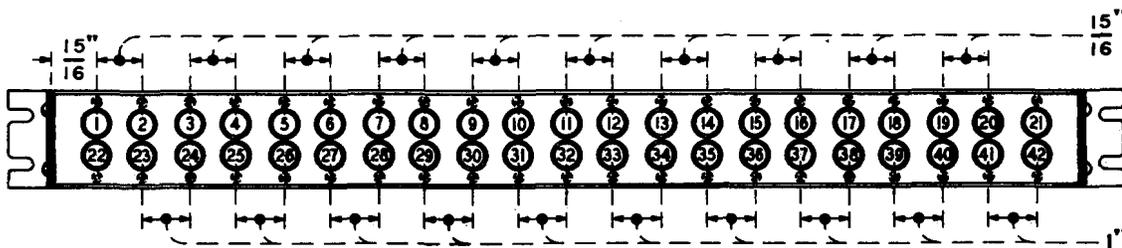


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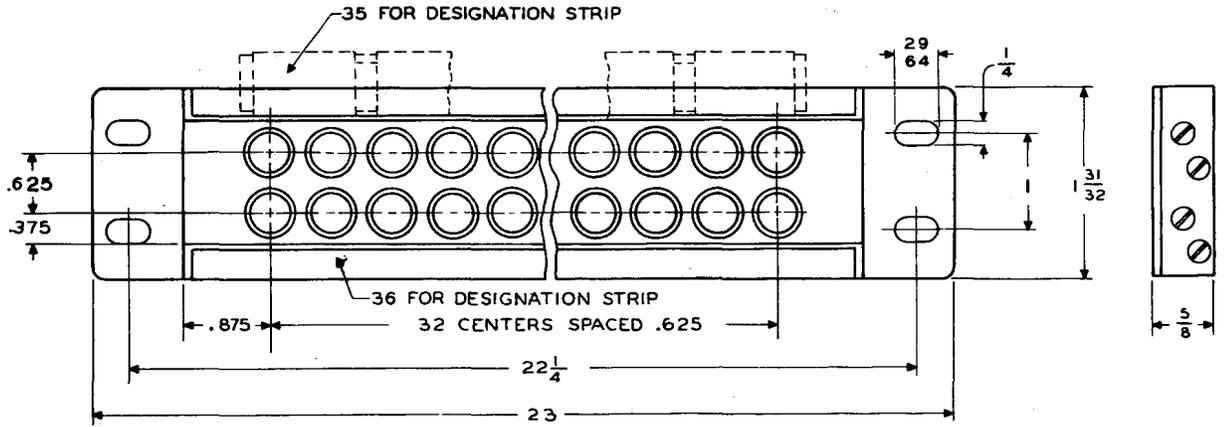


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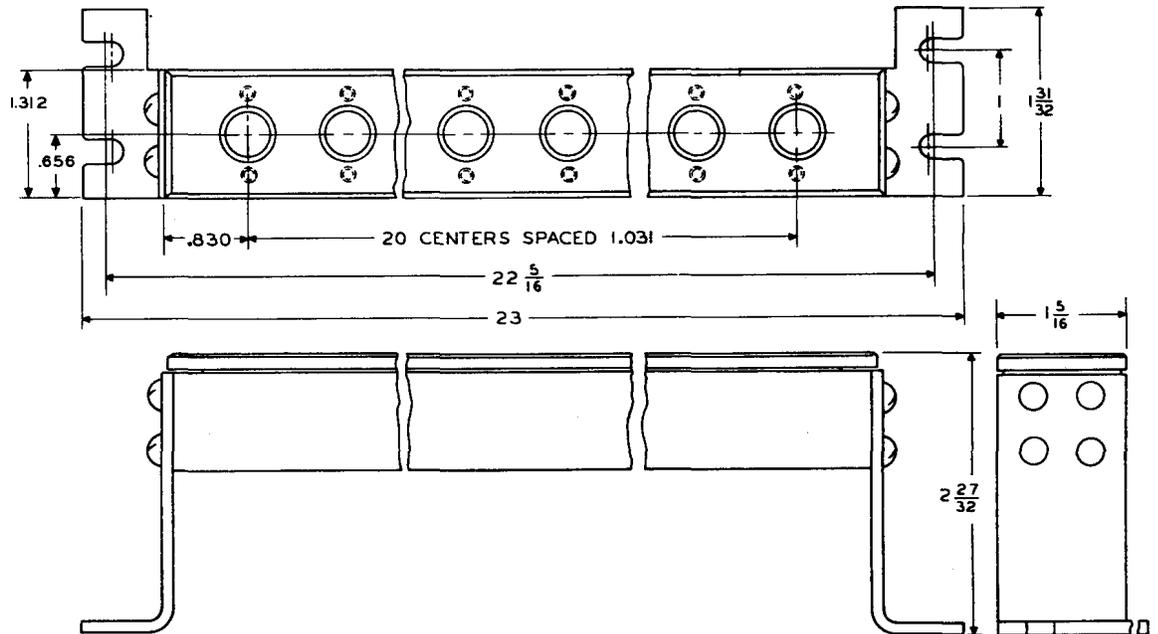


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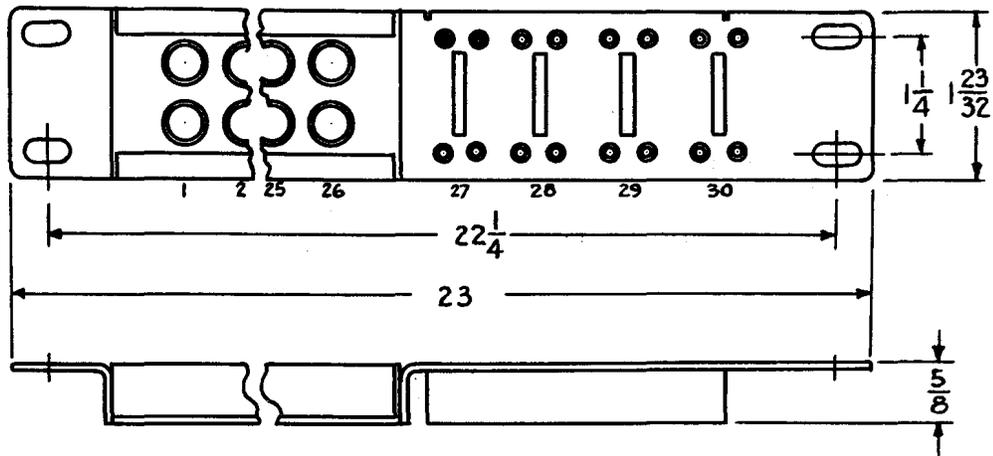


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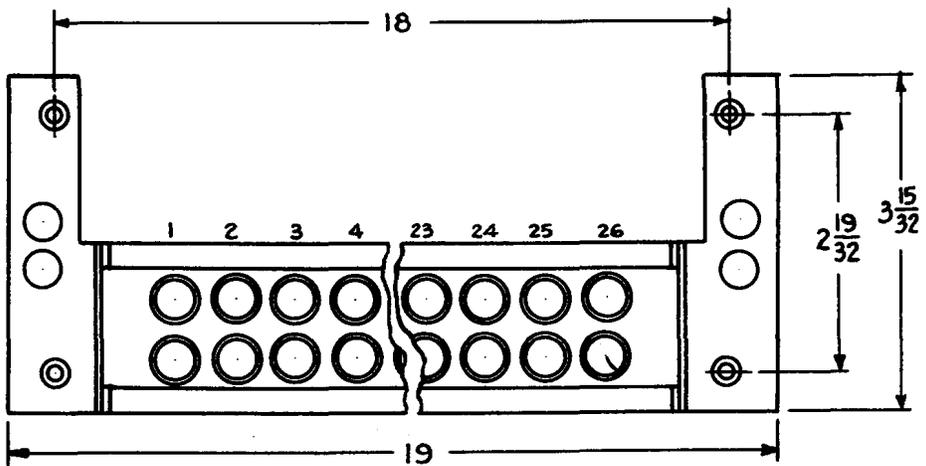
X-75500



No. 249A

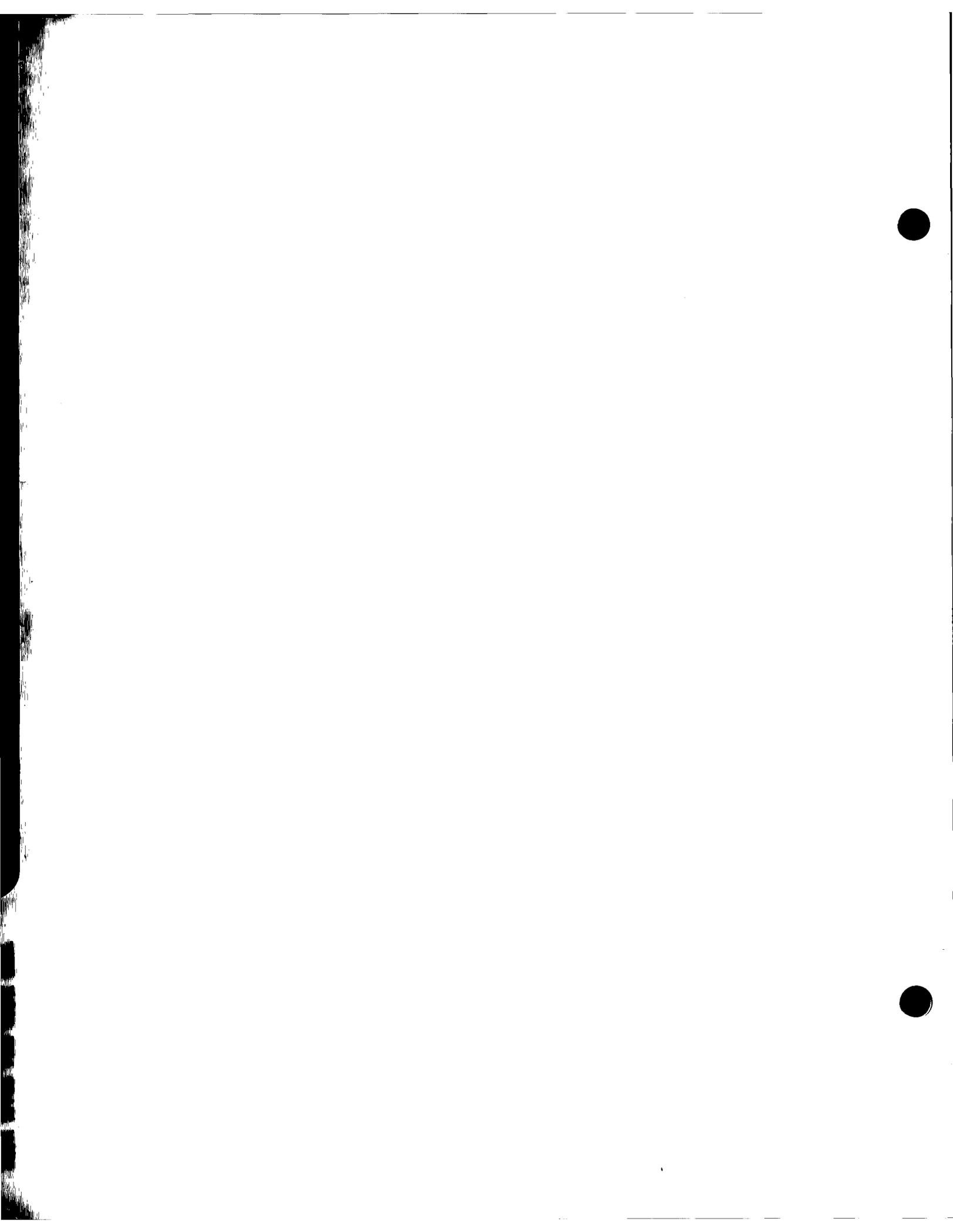


No. 253A



No. 256A





SECTION VIII

JACK MOUNTINGS FOR SWITCHBOARD LOCK RAIL

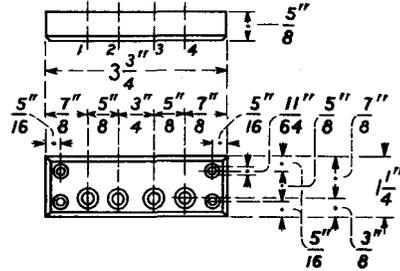
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JACK MOUNTINGS FOR SWITCHBOARD LOCK RAIL

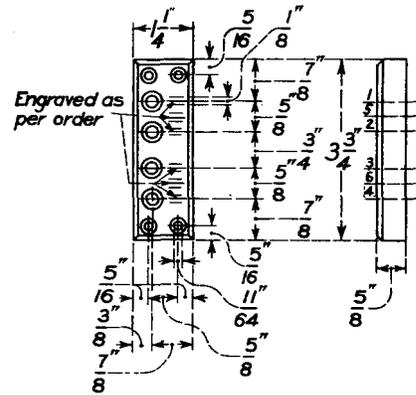
<u>Code</u>	<u>Jacks Used*</u>	<u>Jacks Per Mtg</u>	<u>Length</u>	<u>Thickness</u>	<u>Notes</u>
30	234	4	3-3/4	5/8	
(P)30B	234	4	3-3/4	5/8	a
(P)30C	234	4	3-3/4	5/8	a
78	99	6	5-1/8	5/8	h
(P)78B	223A	6	5-1/8	5/8	a,h
(P)78C	221C	6	5-1/8	5/8	b,h
(P)80	99,234	2	2-3/8	5/8	a
158		4	3-3/4	5/8	c
182	221C	2	2-3/8	5/8	a,f
(P)198A	364,396,460A	6	5-1/8	1/4	d
(P)198B	396,460A	4	5-1/8	1/4	d,j
(P)199A	364,396,460A	4	3-3/4	1/4	d,c
(P)199C	364,396,460A	4	3-3/4	1/4	d,e
(P)199D	364,396,460A	2	3-3/4	1/4	d,g
(P)200A	364,396,460A	2	2-3/8	1/4	d

- a - Engraved as per order.
- b - Designations engraved as specified in the order in positions shown on page VIII-4.
- c - Provided with flat head machine screws and screw bushings for mounting.
- d - Furnished unengraved.
- e - Same as No. 199A except for mounting screws.
- f - Similar to No. 80, except arranged to mount by machine screws and screw bushings.
- g - Drilled for one No. 92A or similar key.
- h - May be mounted on frame in rear of No. 1 switchboard or No. 1 toll switchboard by means of two No. 26 jack fasteners.
- j - Drilled for one Hart & Hegeman No. 1561 Roto-Lock Switch.
- (P) - Preferred Code.

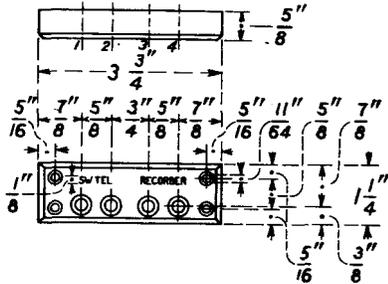
\*For additional singly mounted jacks, see Introduction.  
 For apparatus which can be mounted in the place of jacks, see Page VI-15.



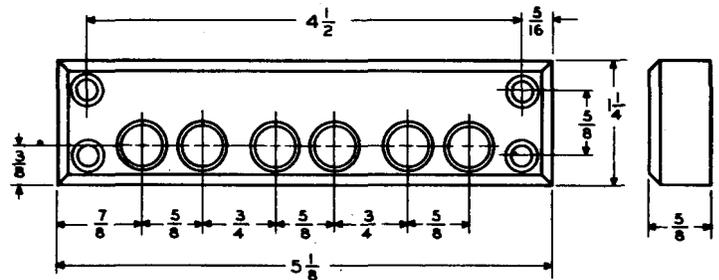
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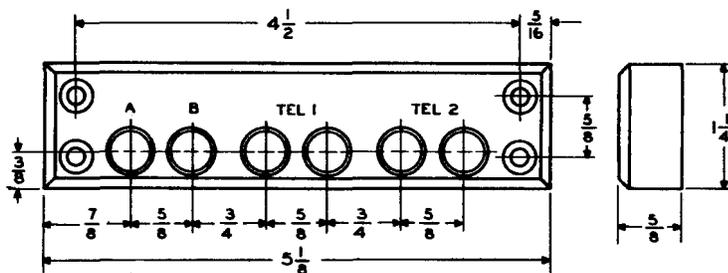
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No. 30C

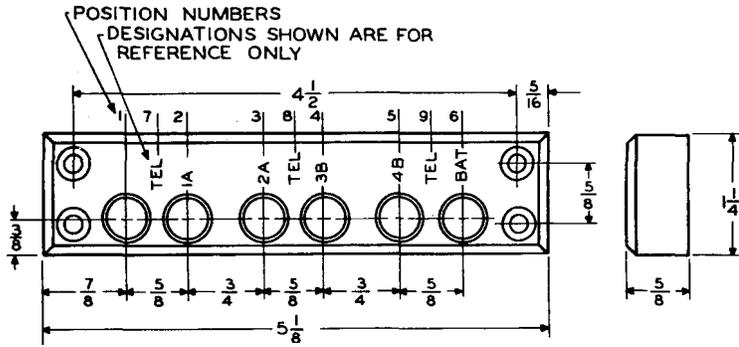


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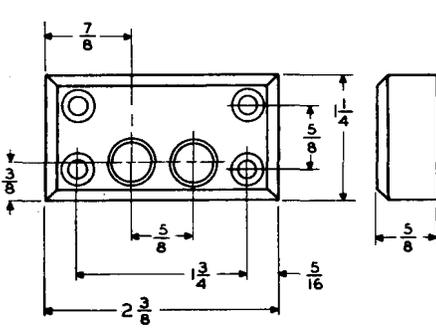


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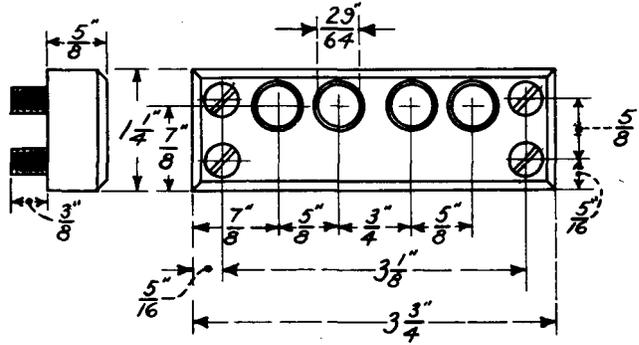
X-75500



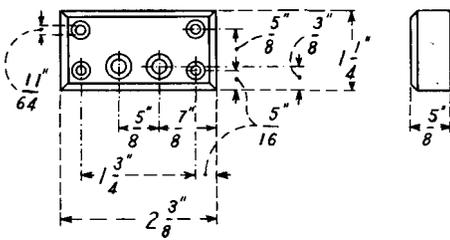
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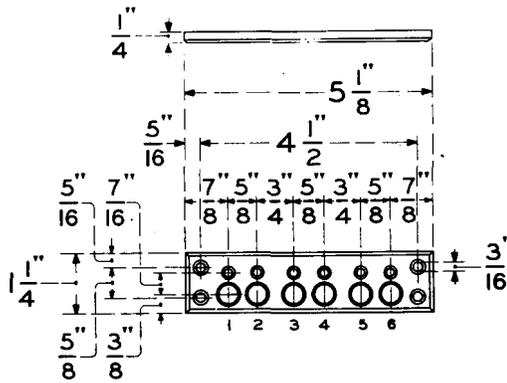
No. 80



No. 158

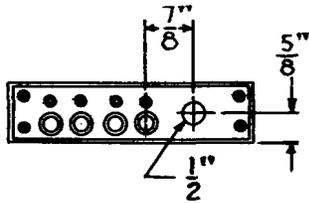


No. 182

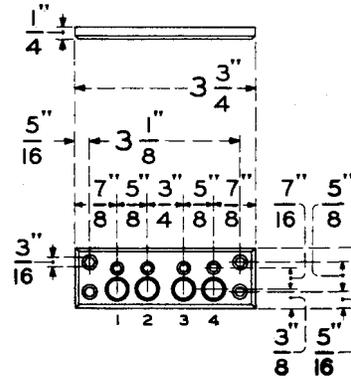


No. 198A

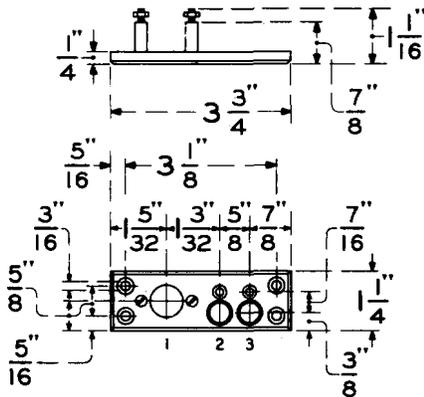
(Otherwise same as  
No. 198A)



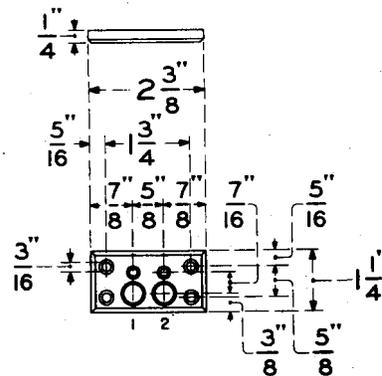
No. 198B



Nos. 199A and C



No. 199D



No. 200A







## SECTION IX

### JACK MOUNTINGS - MISCELLANEOUS

For use of singly mounted jacks other than those listed under the various jack mountings, see Introduction.

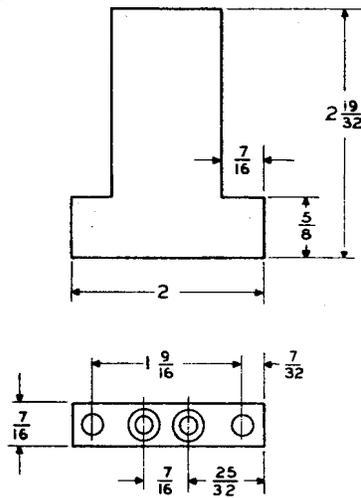
For apparatus which can be mounted in place of jacks, see page VI-15.

Information regarding jack mountings for coaxial jacks is given on page IX-17.

JACK MOUNTINGS - MISCELLANEOUS

NO. 79

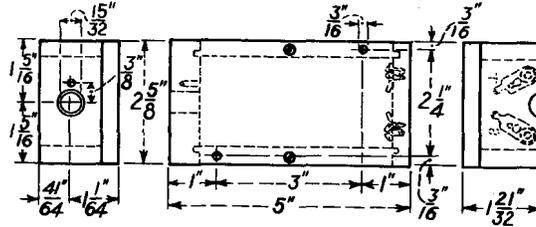
The No. 79 jack mounting is arranged to mount two No. 49 jacks. It is equipped with these jacks and cannot be furnished separately.



No. 79

(P) NO. 148

The No. 148 jack mounting consists of an ebony finished wood box arranged to mount one 218A jack on the side of a desk. It has two terminals for tip and sleeve connections of the jack.

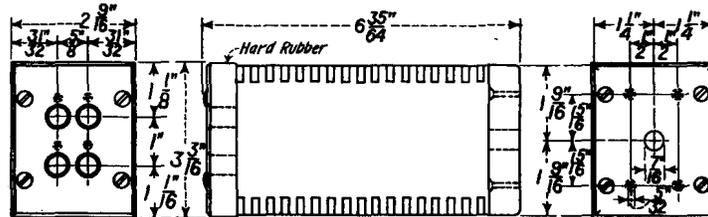


No. 148

NO. 151

The No. 151 jack mounting consists of an oak box with a hard rubber top, arranged to mount four No. 223A jacks. It is used in connection with No. 755 type mounting plates. No. 201A is recommended instead.

X-75500



No. 151

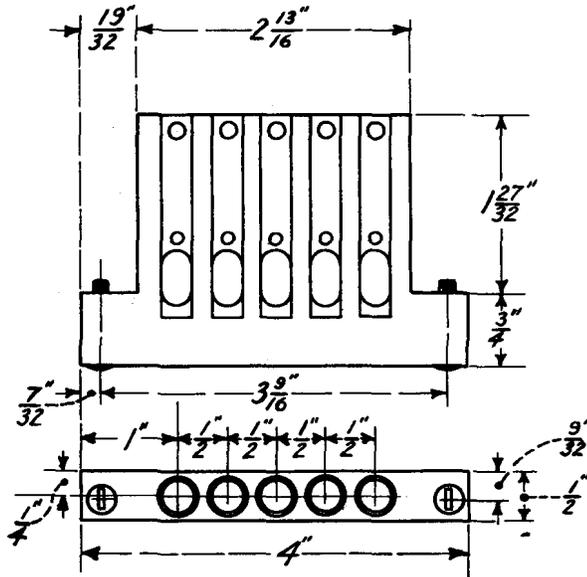
(F) Preferred Code

1-15-52

JACK MOUNTINGS - MISCELLANEOUS

(P) NO. 159

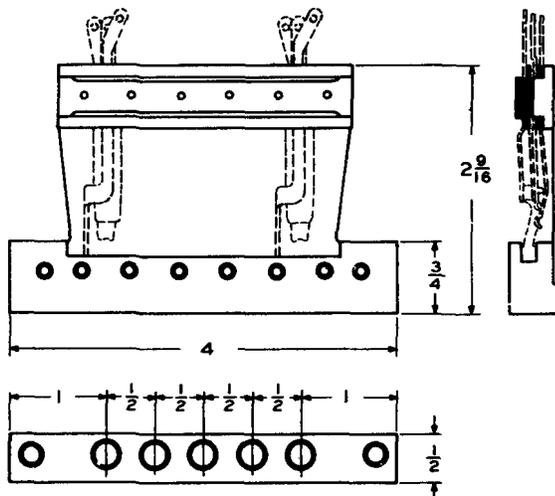
The No. 159 jack mounting is arranged to mount five No. 49 jacks. It is used in the call indicator test box. This jack mounting is equipped with these jacks and cannot be furnished separately.



No. 159

(P) NO. 160

The No. 160 jack mounting is arranged to mount five No. 92 jacks. It is used in the call indicator test box. This jack mounting is equipped with these jacks and cannot be furnished separately.

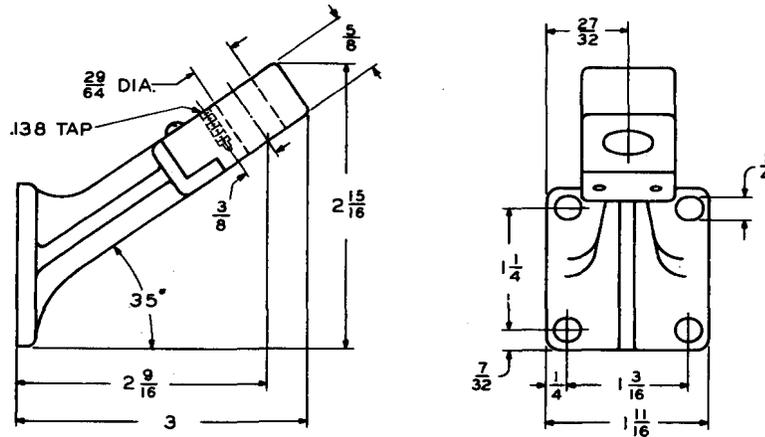


No. 160

(P) Preferred code

(P) NO. 162

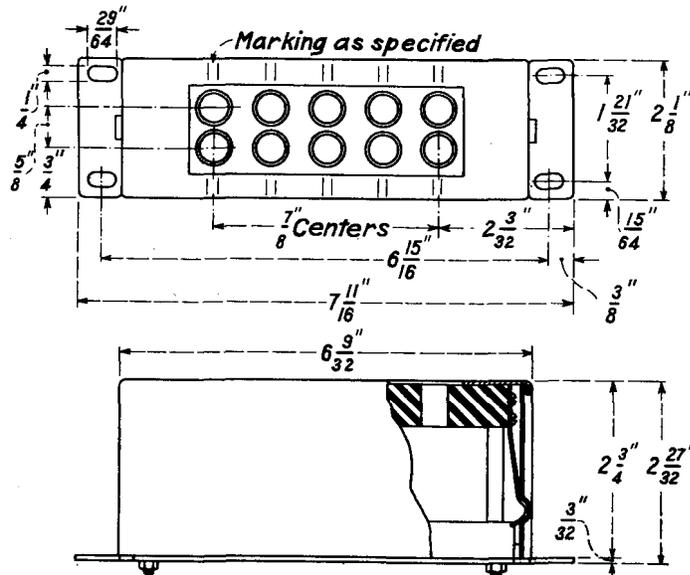
The No. 162 jack mounting is arranged to mount one jack of any of the following: Nos. 238A, 239A, 240A, 241A, or 242A. It is provided with machine screws for mounting direct to the I-beam of relay rack between the end relays of adjacent mounting plates.



No. 162

(P) NO. 172

The No. 172 jack mounting consists of a strip of black insulating material, drilled for jacks and mounted on a metal mounting plate. It has a dust cover; and mounts ten No. 215 jacks.



No. 172

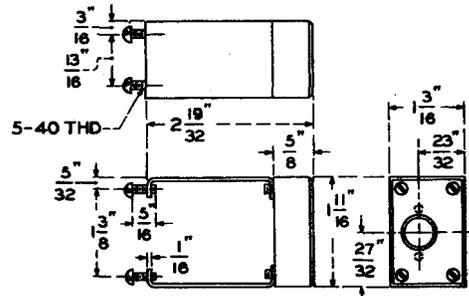
(P) Preferred code

X-75500

JACK MOUNTINGS - MISCELLANEOUS

No. 188A

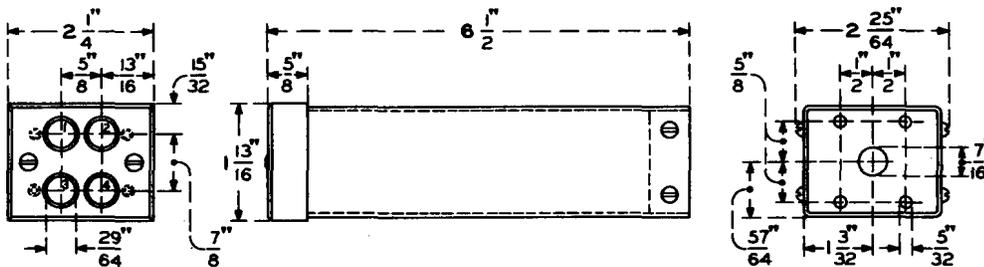
The No. 188A jack mounting consists of a block of black insulating material mounted on two metal supports. It is used on mounting plates in panel dial systems and mounts one No. 289B jack.



No. 188A

(P) NO. 201A

The No. 201A jack mounting consists of a metal box with a face of insulating material. It is used in connection with No. 956 type mounting plates, and mounts four No. 221C jacks.

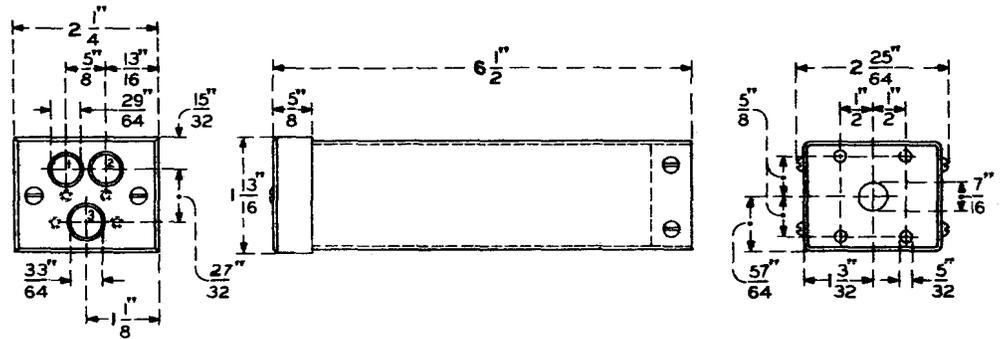


No. 201A

(P) Preferred code

(P) NO. 201B

The No. 201B jack mounting is the same as the No. 201A except that it mounts two No. 215A jacks and one No. 41A lamp socket.



No. 201B

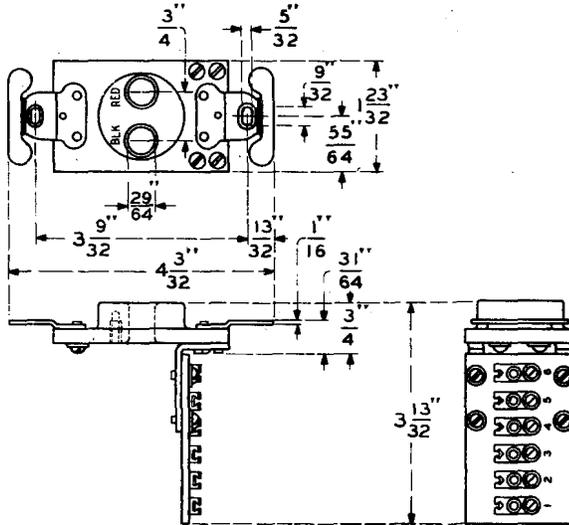
X-75500

(P) Preferred code

JACK MOUNTINGS - MISCELLANEOUS

(P) NO. 211A

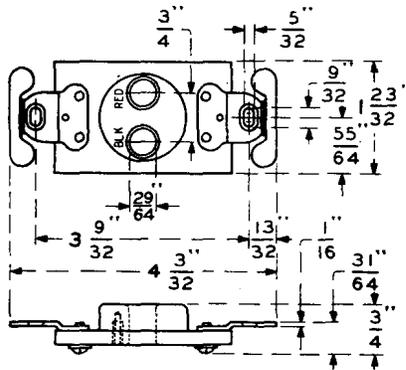
The No. 211A jack mounting consists of a plate of insulating material provided with brackets for mounting in a standard 3-1/2 inch deep switchbox. It mounts two singly mounted "A" or "C" frame jacks and is provided with a terminal strip.



No. 211A

(P) NO. 211C

The No. 211C jack mounting is the same as the 211A except that it has no terminal strip.

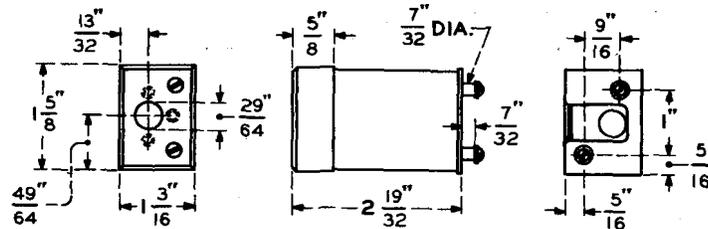


No. 211C

(P) Preferred code

(P) NO. 212A

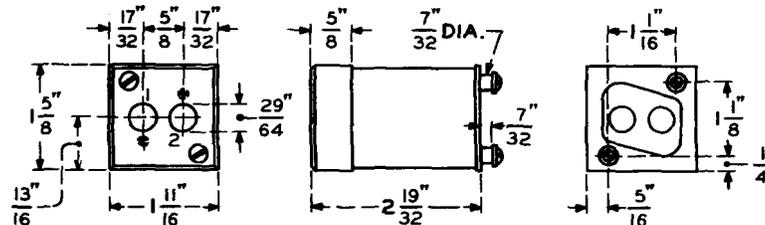
The No. 212A jack mounting consists of a metal box with a face of insulating material. It is used on relay mounting plates and is insulated from the mounting plate. This jack mounting was normally intended to mount on 1-1/4-inch horizontal centers, however, where space is required above or below the jack mounting for the adjustment of relays, the jack mounting should be rotated 90 degrees clockwise when viewed from the apparatus side and in this case 1-3/4-inch horizontal and vertical mounting centers are required. When ordering mounting plates for the latter arrangement, "Drill per Arrangement A" should be specified. It is arranged for mounting one No. 242C or 284B jack.



No. 212A

(P) NO. 213A

The No. 213A jack mounting consists of a metal box with a face of insulating material. It is used on relay mounting plates and is insulated from the mounting plate. It is arranged to mount two No. 242C or 360C jacks.



No. 213A

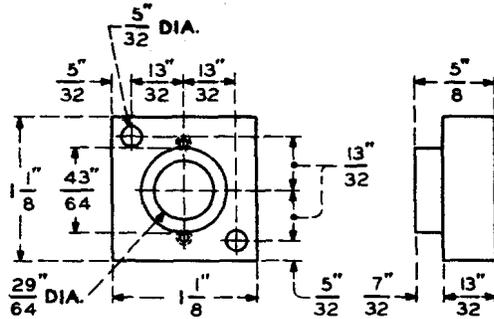
(P) Preferred code

X-75550

JACK MOUNTINGS - MISCELLANEOUS

(P) NO. 214A

The No. 214A jack mounting is made of insulating material. It is arranged to mount on back of  $7/32$ -inch thick mounting plate or panel and uses one No. 223A or 223B jack.



No. 214A

(P) NO. 214B

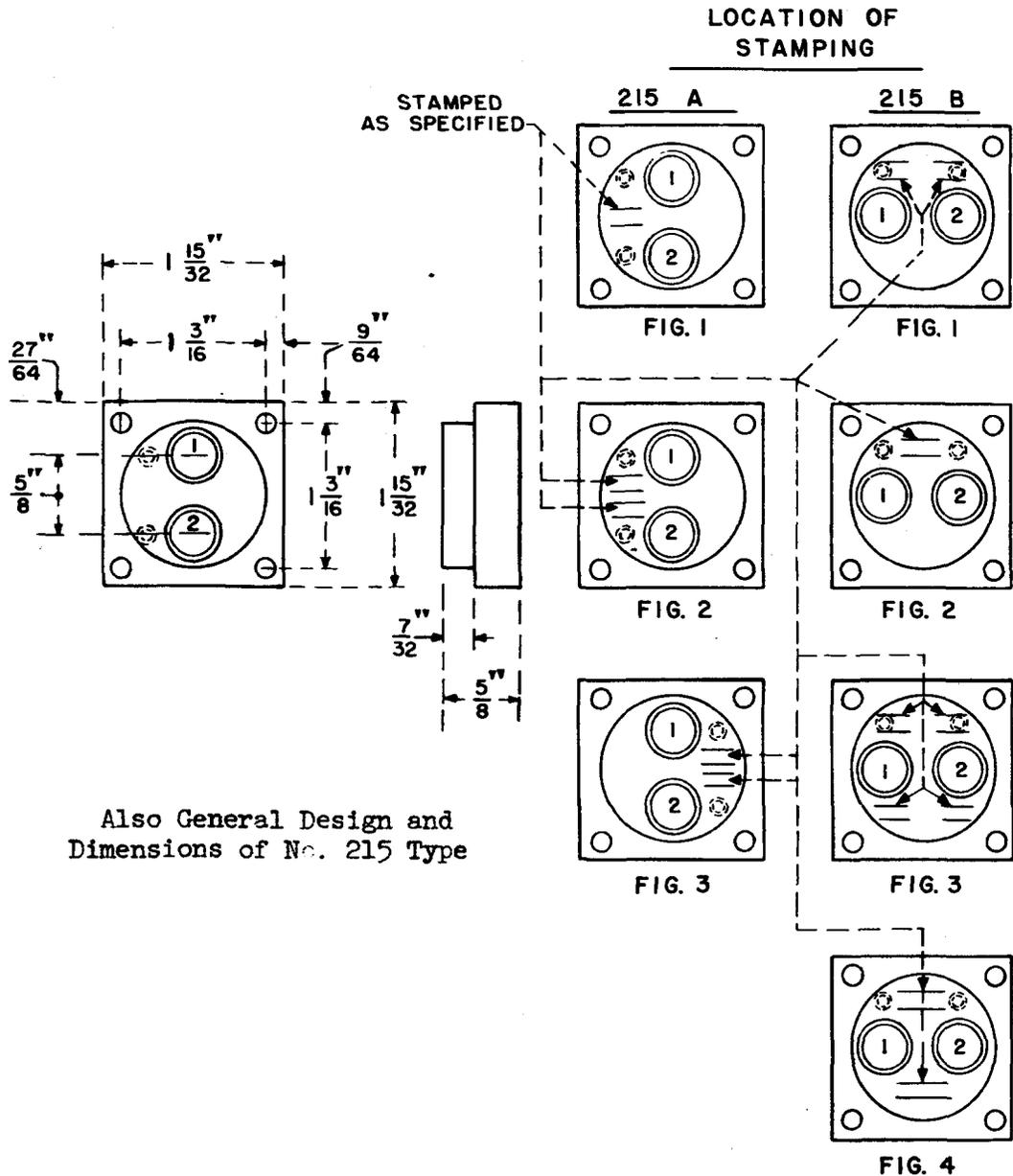
The No. 214B jack mounting is the same as the No. 214A except that the overall thickness is  $1/2$  inch. It is intended to mount one 249 or similar type jack.

(P) Preferred code

(P) NOS. 215A and B

The Nos. 215A and B jack mountings are made of insulating material for mounting on rear of panel. They are arranged to mount two jacks; the No. 215A mounts No. 215C or similar-type jacks, and the No. 215B mounts No. 223A or similar-type jacks.

X-75500



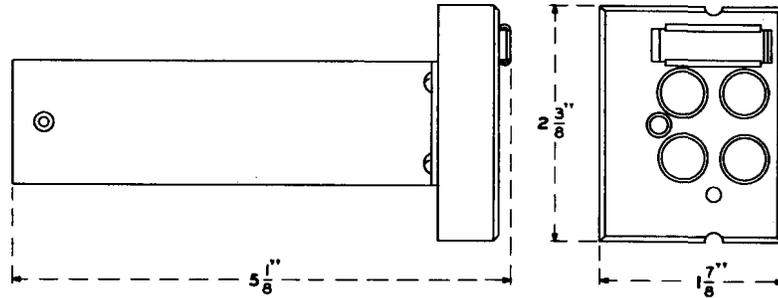
No. 215A and B

(P) Preferred code



(P) NO. 226A

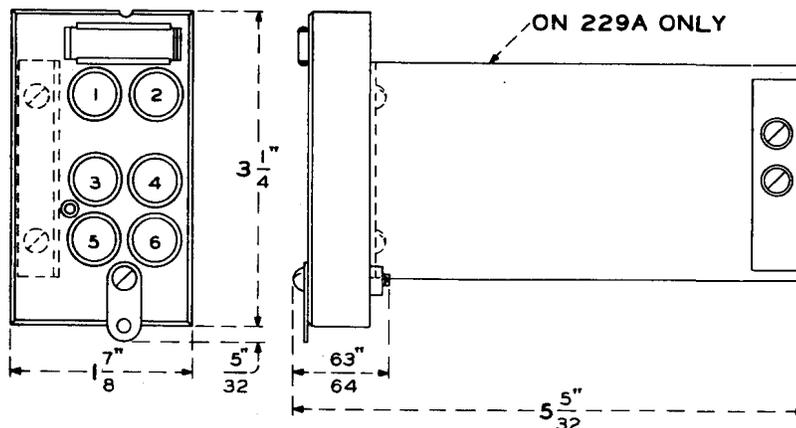
The No. 226A jack mounting is arranged to mount two No. 410C or similar-type jacks. It is equipped with a designation strip and a bracket for supporting two No. 720 cables. Connecting strap, screw, and ground strap for mounting the block and grounding the jacks are furnished. This jack mounting is intended for mounting high-frequency patching jacks.



No. 226A

NOS. 229A and (P) 229B

The No. 229A jack mounting consists of a block of insulating material, cable bracket and clamp, designation strip, connecting strap, and ground strap. It is intended for use in mounting high-frequency patching jacks in carrier telephone systems. The 229B jack mounting is the same as the No. 229A except that it has no cable bracket and clamp. These jack mountings are arranged to mount two No. 410 type jacks and two No. 216 type jacks.



Nos 229A and B

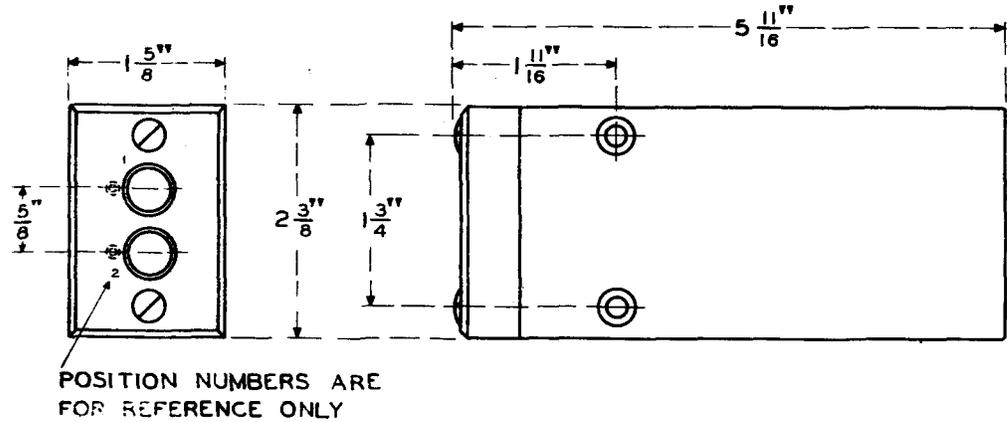
(P) Preferred code

X-75500



(P) NO. 237A

The No. 237A jack mounting consists of a black metal box with face of insulating material. It is intended to mount on side of desk. This jack mounting is arranged to mount two Nos. 233A, 238A, 239A, or 303A jacks.

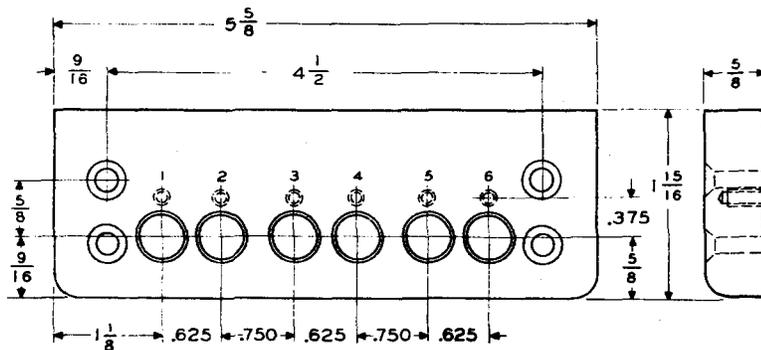


No. 237A

X-75500

(P) NO. 251A

The No. 251A jack mounting consists of a sheet of hard rubber, drilled for six jacks of types which mount in a .453 hole. It is primarily intended for use on operating room desks.



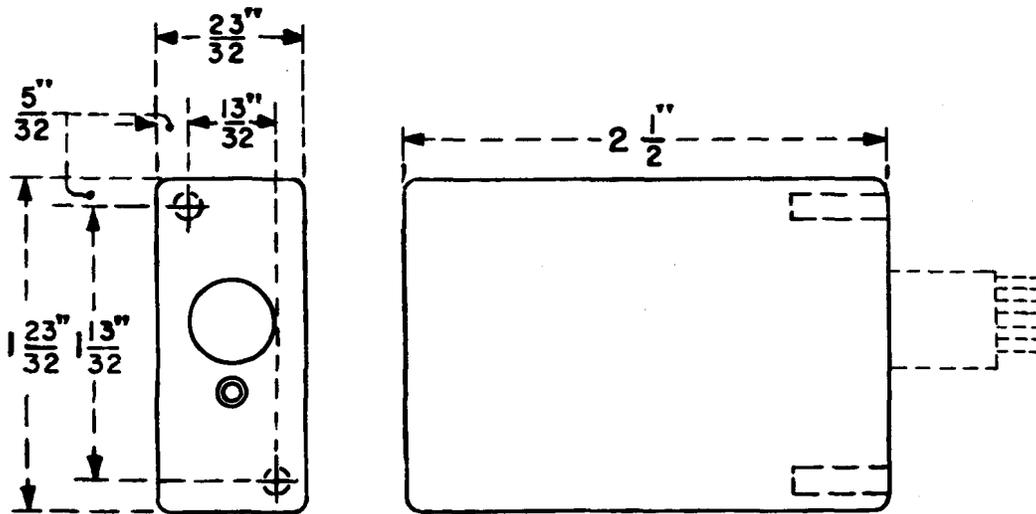
No. 251A

(P) Preferred code

JACK MOUNTINGS - MISCELLANEOUS

(P) No. 252A Jack Mounting

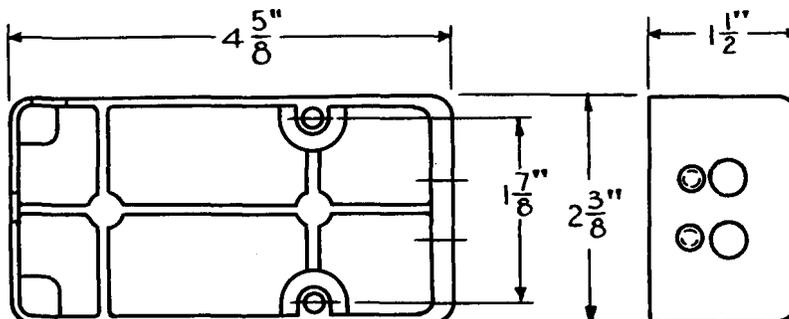
The No. 252A Jack Mounting is molded from black insulating material and intended for use on relay mounting plates. This jack mounting is not intended for use on channel-type mounting plates with openings between flanges of less than 1.516 inch. It is arranged for one singly mounted C-type jack.



No. 252A Jack Mounting

(P) No. 255A Jack Mounting

The No. 255A jack mounting is molded from black insulating material and is arranged to mount two No. 223A or similar type jacks. When so equipped, it will accommodate a No. 289B or similar type plug. Mounting screws and bushings are furnished.



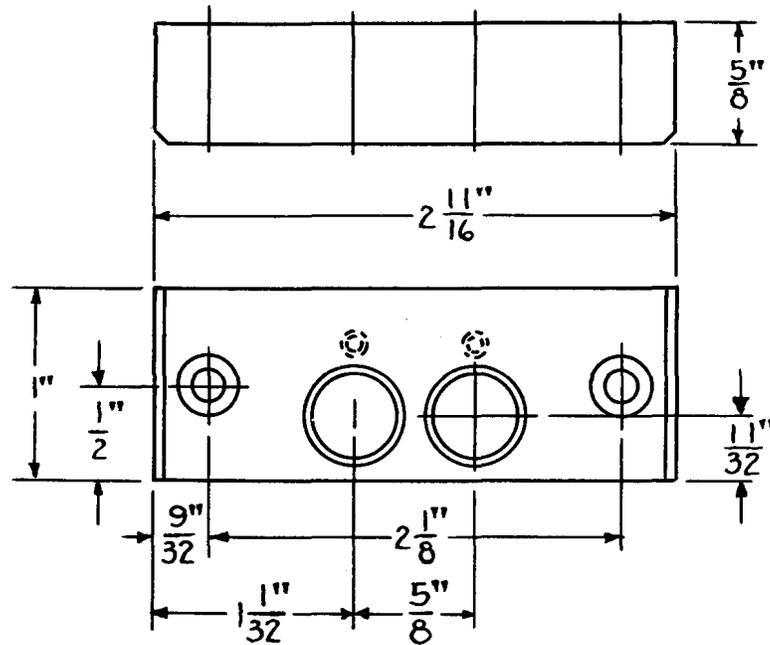
No. 255A Jack Mounting

Note:

(P) Preferred Code.

(P) No. 257A Jack Mounting

The No. 257A jack mounting is made from hard rubber and is arranged to mount two No. 218A or similar type jacks. Mounting screws are furnished.



No. 257A Jack Mounting



JACK MOUNTINGS WHICH WILL MOUNT CODED  
COAXIAL JACKS

The types of jack mountings listed below will accommodate Western Electric Co. coded coaxial jacks, provided the center spacing of the jack mounting holes and the rear clearance are satisfactory, except jacks which have no mounting lugs or which are not of standard outside diameter ( such as Nos. 466B, 478A, 480B, 490A, 492A jacks).

Jack Mountings for Switchboards

<u>Face Length</u>	<u>Code</u>
6-21/32	128, 130, 147, 129, 146
7-23/32	236, 190A, 190B, 238A, 242A, 243A, 243B
9-3/16	143, 191A, 218A, 218B, 204A, 144, 205A,
10	239A
10-1/2	169, 196A
11-3/16	149, 189A, 189B, 189C, 197A, 207A, 244A
11-1/2	---
11-3/4	---
21-3/4	133, 134, 135

Jack Mountings Used on Relay Racks

17-15/16	184, 227A, 185
19	210A, 210B, 230A, 230B, 230C, 230D, 230E, 240A
21-15/16	206A
23	202A, 202B, 208A, 208B, 208C, 245A, 249A, 192A, 231A, 231B, 246A, 248A, 253A

Jack Mountings for Switchboard Lock Rail

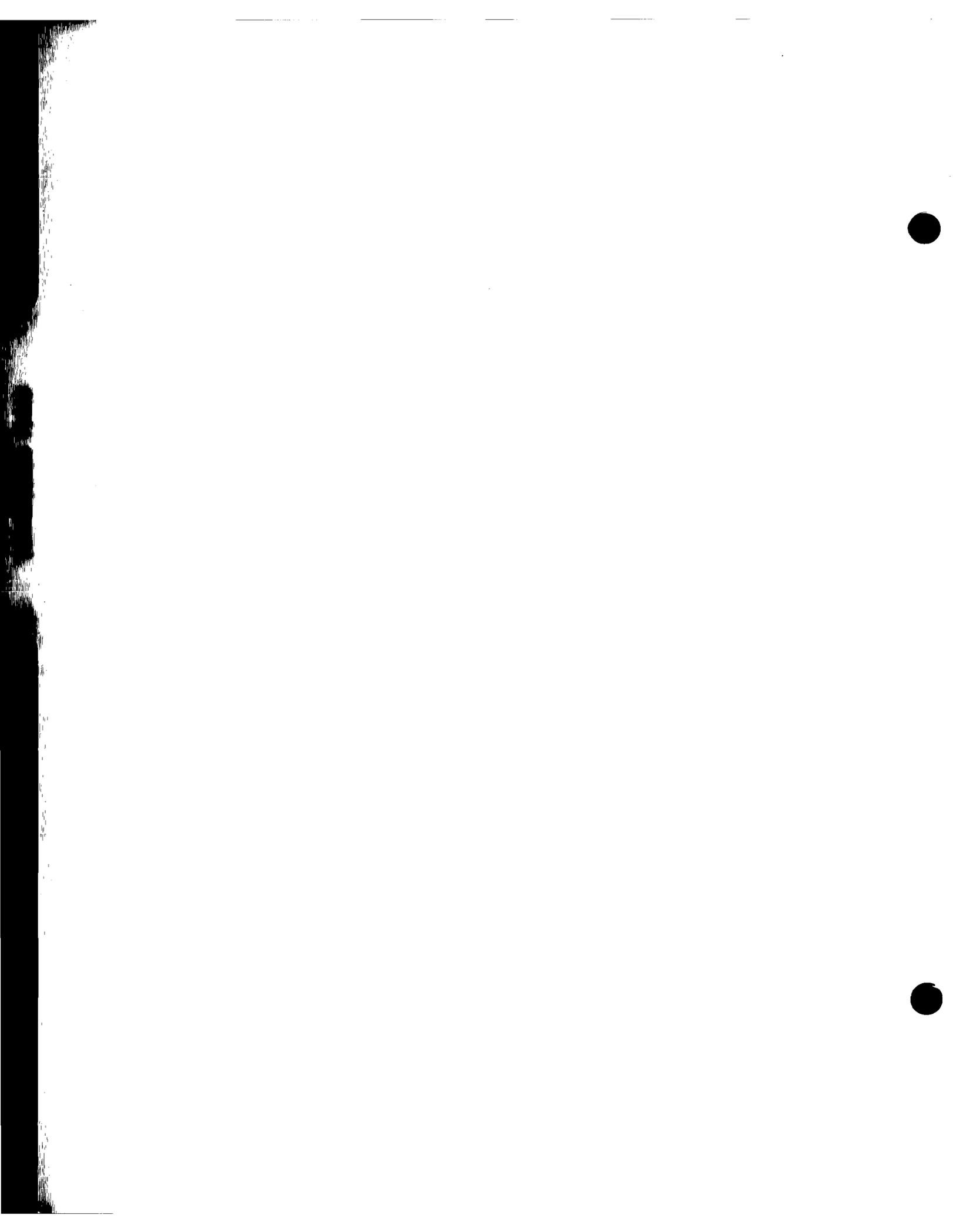
30, 30B, 30C, 78, 78B, 78C, 80, 158,  
182, 198A, 198B, 199A, 199C, 199D,  
200A

Miscellaneous Jack Mountings

148, 151, 162, 188, 201A, 201B, 211A,  
211C, 212A, 213A, 214A, 214B, 215A,  
215B, 224A, 225A, 226A, 229A, 229B,  
233A, 237A, 251A







X-75500

SECTION X  
SWITCHBOARD PLUGS

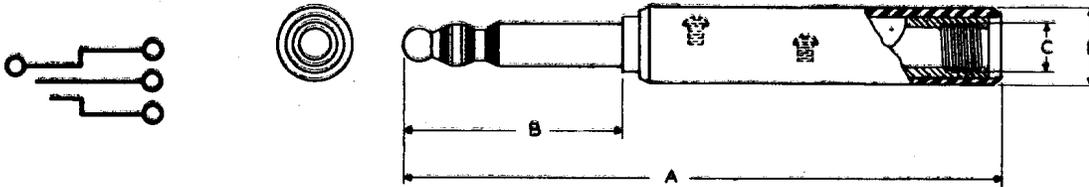
7-15-52

X-1

**SWITCHBOARD PLUGS**

PLUGS OF THE NO. 309 PROFILE TYPE

0.207 NOMINAL DIAMETER OF FINGER

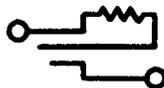


For Use with The Following Jacks

92	292
229	323
246	408
248	445
249	483

SINGLE SWITCHBOARD PLUGS

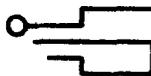
<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 309	General purpose plug.	A - 3-1/16 B - 1-3/32 C - 9/32 D - 3/8	Red, gray or black	See list at end end of this Section.



(P) 277B	Has a 600 ohm $\pm 5\%$ resistor connected across the tip and ring. Intended for sleeve cord connection only.	A - 3-1/16 B - 1-3/32 C - -- D - 3/8	Red, gray, or black	642
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Note:

(P) Preferred Code.

SINGLE SWITCHBOARD PLUGS

<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 322A	Ring and sleeve are connected together.	A - 3-9/64	322A-Red	Not arranged for cord connection.
(P) 322B		B - 1-3/32	322B-Black	
(P) 322C		C - -- D - 3/8	322C-Gray	

X-75500

Note:

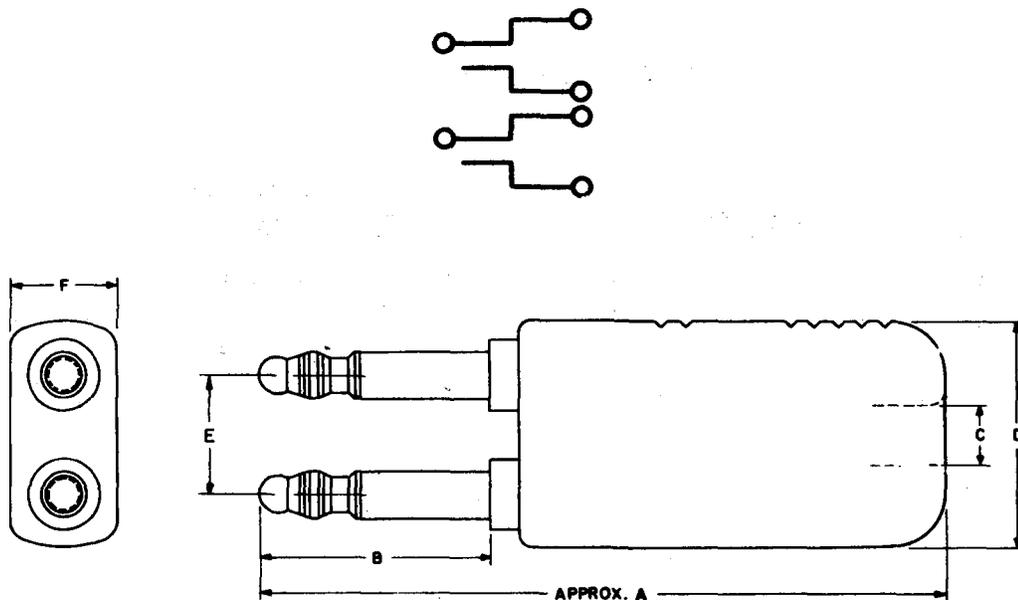
(P) Preferred Code.

7-15-52

X-3

SWITCHBOARD PLUGS

TWIN FINGER PLUGS HAVING 309-TYPE PROFILE

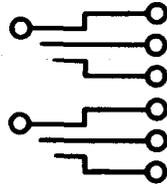


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 353A	General purpose twin plug.	A - 3-1/2 B - 1-3/32 C - (2)9/32 D - 1-3/16 E - 5/8 F - 9/16	Black	P2AF, P4AB, W2BN

Note:

(P) Preferred Code.

TWIN FINGER PLUGS HAVING 309-TYPE PROFILE (Contd)

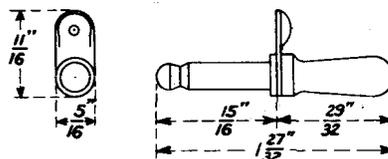


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
371A	Fingers and free ends of conductors are molded in a plug body of neoprene. Obtainable only attached to cord.	A - 3 B - 1-3/32 C - --- D - 31/32 E - 5/8 F - 21/64	Black	P6D, S6A, W4AN, W4AR
(P) 371B	Not arranged for cord connection.	"	Black	---

SOLID FINGER MAKE-BUSY PLUGS HAVING 309-TYPE PROFILE

(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 245	Solid metal finger plug, in a handle of black insulating material. Modified 309 finger short circuits jack, ring, spring, and sleeve only. Has a small shield which obscures light from the associated switchboard lamp.



No. 245

Note:

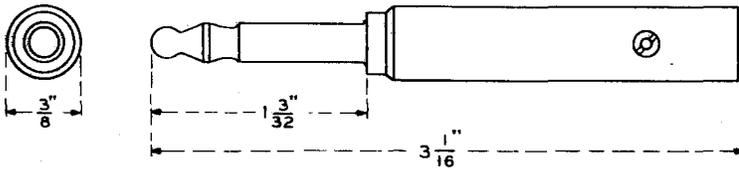
(P) Preferred Code.

SWITCHBOARD PLUGS

SOLID FINGER MAKE-BUSY PLUGS HAVING 309-TYPE PROFILE (Contd.)

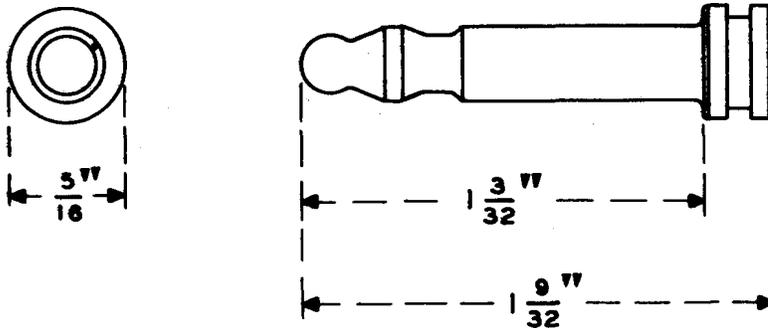
(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 329A	Solid metal finger plug, equipped with red shell covering plug body. Short-circuits tip, ring, and sleeve springs of jacks.



No. 329A

<u>Code No.</u>	<u>Description</u>
(P) 350A	Solid metal finger plug, short-circuits tip, ring, and sleeve springs of jacks. Body is grooved to accommodate the No. 274 tool.



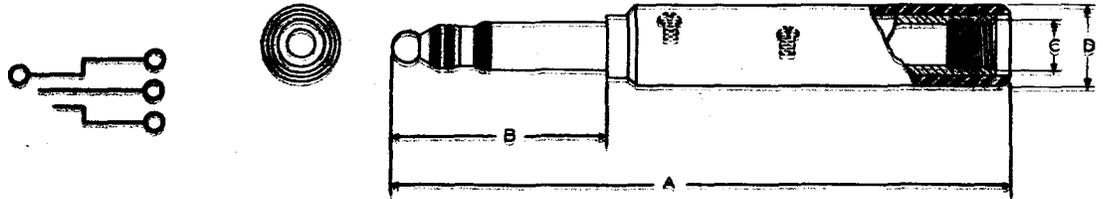
No. 350A

Note:

(P) Preferred Code.

PLUGS OF NO. 310 PROFILE TYPE

0.250 NOMINAL DIAMETER OF FINGER



For Use with The Following Jacks

49	240	280	308	378
50	241	284	324	387
70	242	285	326	446
122	247	289	347	449
138	244	290	359	454
141	245	291	360	456
193		293	362	458
238	267	295	363	469
239	275	300	365	482
			372	494

X-75300

SINGLE PLUGS

<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 310	General purpose plug.	A - 3-1/4 B - 1-9/64 C - 5/16 D - 27/64	Red, gray, black, or green	See List at end of this section.

Note:

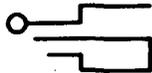
(P) Preferred Code.

SWITCHBOARD PLUGS

SINGLE PLUGS (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 150	Not insulated between the ring and the dead collar.	A - 3-7/32 B - 1-9/64 C - -- D - 27/64	Red	Not arranged for cord connection.



(P) 184B	Ring and sleeve are connected together.	A - 3-3/8 B - 1-9/64 C - -- D - 27/64	Red, gray, or black	Not arranged for cord connection.
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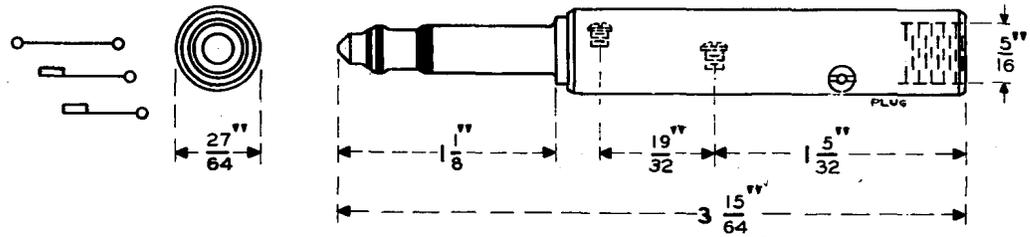


(P) 262B	Has 600 ±5% ohms resistor connected across the tip and ring. Intended for sleeve cord connection only.	A - 3-7/32 B - 1-9/64 C - 5/16 D - 27/64	Red, gray, or black	643
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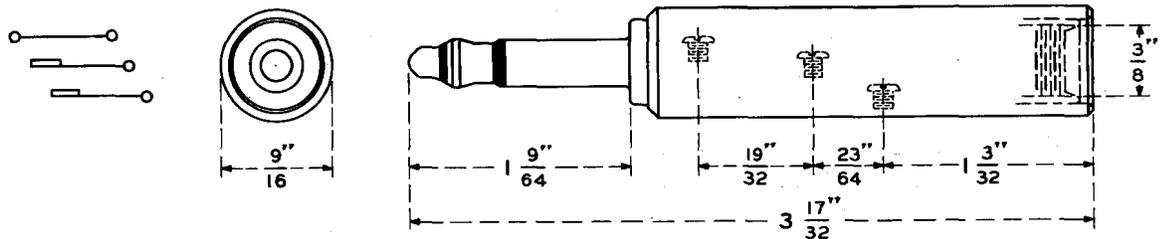
Note:

(P) Preferred Code.

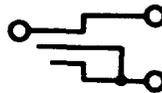
SINGLE PLUGS (Contd)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 291B	Ring spring of jack will make contact with ring of plug before the normally closed contact on the tip spring is opened. Not recommended for general use and not satisfactory for repaired jacks.	A - 3-15/65 B - 1-1/8 C - 5/16 D - 27/64	Black	P3E S2B



(P) 304A	Dead collar is omitted, finger structure has been modified, and plug body has been made larger.	A - 3-17/32 B - 1-9/64 C - 3/8 D - 9/16	Black	M3AL S3K W2BC
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(P) 320B	Ring and sleeve are connected together. Arranged for tip and sleeve cord connection only	A - 3-7/32 B - 1-9/64 C - 5/16 D - 7/16	Gray	P2B
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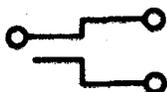
**Note:**

(P) Preferred Code.

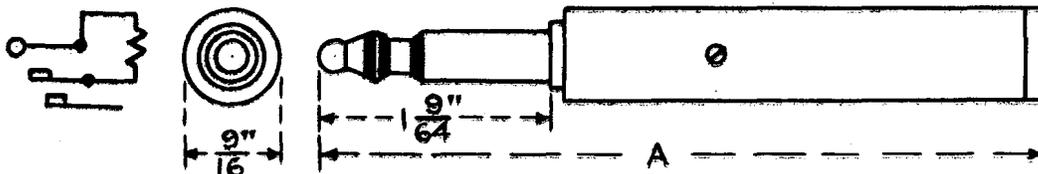
X-75500

SWITCHBOARD PLUGS

SINGLE PLUGS (Contd)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 359A	Two-conductor plug with modified 310 profile, arranged so that the sleeve makes contact with the sleeve of the jack and the tip makes contact with the tip spring. No contact is made with the tip spring of the jack. Arranged for ring and sleeve connection only.	A - 3 B - 29/64 C - 5/16 D - 27/64	Red	S2B

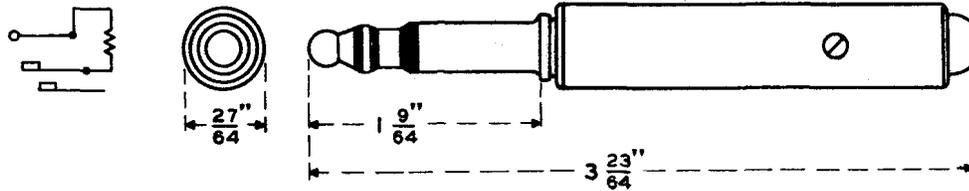


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 386A	Similar to No. 310 plug except that a 600 ohm $\pm$ 1 percent, 1/4 watt, resistor is connected across the tip and ring. Used in the E repeater test sets.	A - 4-19/32 B - 1-9/64 C - --- D - 9/16	Black	Not arranged for cord connection
(P) 386C	Similar to No. 310 plug except that a 75 ohm $\pm$ (1 percent + .01), 1/2 watt, resistor is connected across the tip and ring. Used in the L3 Carrier System.	A - 3-31/32 B - 1-9/64 C - --- D - 9/16	Black	Not arranged for cord connection

Note:

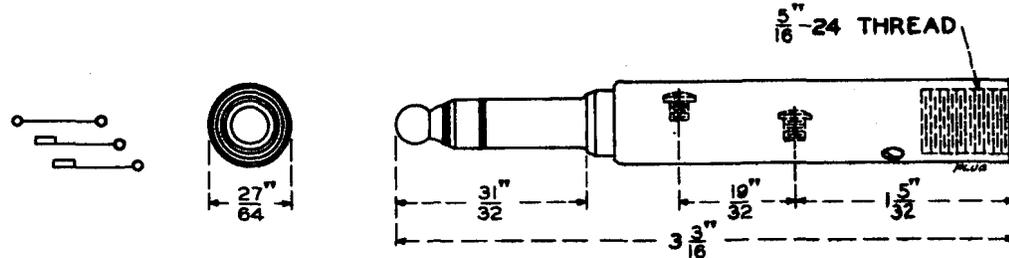
(P) Preferred Code.

SINGLE PLUGS (Contd)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 386B	Similar to No. 310 plug except a 135 ohm $\pm 1$ percent, 1/4 watt, resistor is connected across the tip and ring. Used in testing and maintenance of the type "O" carrier telephone installations	A - 3-23/64 B - 1-9/64 C - --- D - 27/64	Red	Not arranged for cord connection

FOR USE WITH STRIP-MOUNTED JACKS



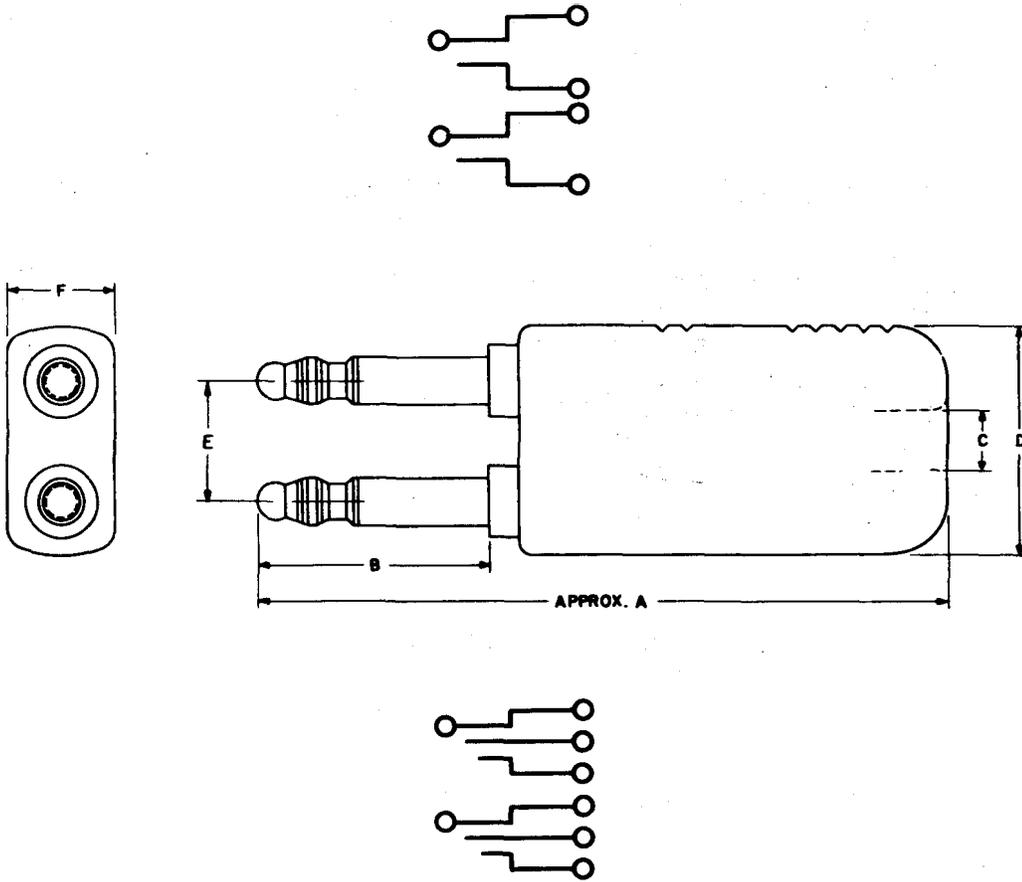
(P) 378A	Used with 15, 66, 100, and 112 strip-mounted jacks	A - 3-3/16 B - 3-1/32 C - 5/16 D - 27/64	Red, or Black if requested	S3B
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Note:

(P) Preferred Code.

SWITCHBOARD PLUGS

TWIN FINGER PLUGS HAVING 310-TYPE PROFILE

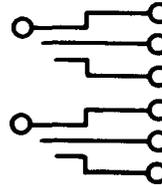


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 211	General purpose. For light service.	A - 3-7/32 B - 1-9/64 C - (2)5/16 D - 15/16 E - 7/16 F - 27/64	Black	Same as for the No. 310 Plug.

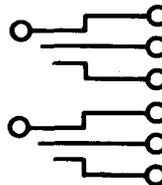
Note:

(P) Preferred Code.

TWIN FINGER PLUGS HAVING 310-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
212	General purpose. For light service.	A - 3-7/32 B - 1-9/64 C - (2)5/16 D - 1 E - 1/2 F - 27/64	Black	Same as for the No. 310 Plug.



(P) 213	General purpose. For light service.	A - 3-7/32 B - 1-9/64 C - (2)5/16 D - 1-3/16 E - 11/16 F - 27/64	Black	Same as for the No. 310 Plug.
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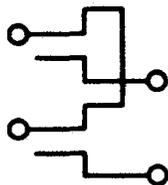
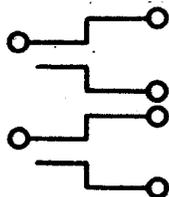
Note:

(P) Preferred Code.

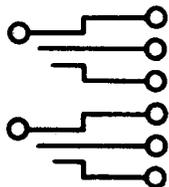
X-75500

SWITCHBOARD PLUGS

TWIN FINGER PLUGS HAVING 310-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 288A	Modified 310 profiles arranged so sleeve of each finger makes contact with both the sleeve and ring spring of associated jack. Arranged for tip and sleeve cord connection.	A - 3-17/32 B - 1-9/64 C - (2)5/16 D - 1-3/16 E - 5/8 F - 9/16	Black	P4H, P4AE, W2AP
(P) 288B	Same as 288A except tips are connected. Arranged for sleeve cord connection only.			

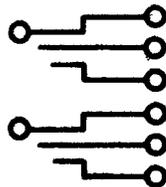


(P) 338A	General purpose plug.	A - 3-7/32 B - 1-9/64 C - (2)5/16 D - 1-3/16 E - 5/8 F - 19/32	Black	P6C, P6E
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Note:

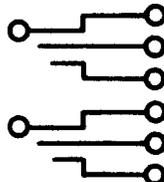
(P) Preferred Code.

TWIN FINGER PLUGS HAVING 310-TYPE PROFILE (Contd.)



<u>Code. No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 361A	Modified 310 profiles, arranged so the tips of fingers will not even momentarily short-circuit the tip and ring springs of the jack when inserted in the jack except under remotely extreme conditions.	A - 3-13/64 B - 1-3/32 C - (2)5/16 D - 1-3/16 E - 5/8 F - 19/32	Black	

X-75300



(P) 380A	Each finger provides tip, ring and sleeve connections. Tested at 1000 volts alternating current. For light service only.	A - 3-3/16 B - 1-7/64 C - (2)11/64 D - 15/16 E - 7/16 F - 27/64	Black	W6D
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Note:

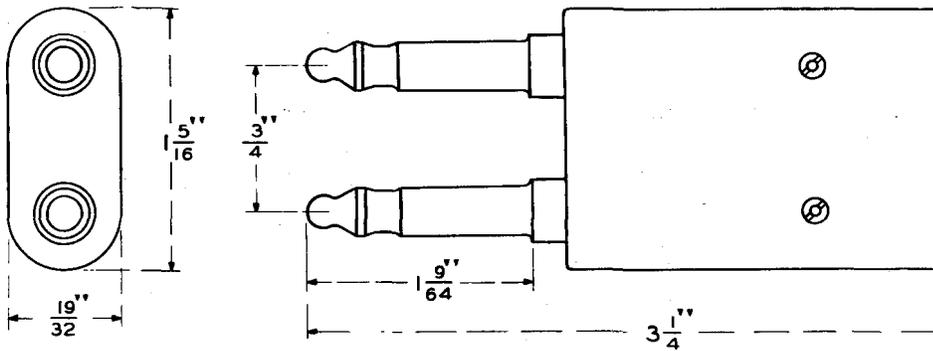
(P) Preferred Code.

SWITCHBOARD PLUGS

SOLID FINGER MAKE-BUSY PLUGS HAVING 310-TYPE PROFILE

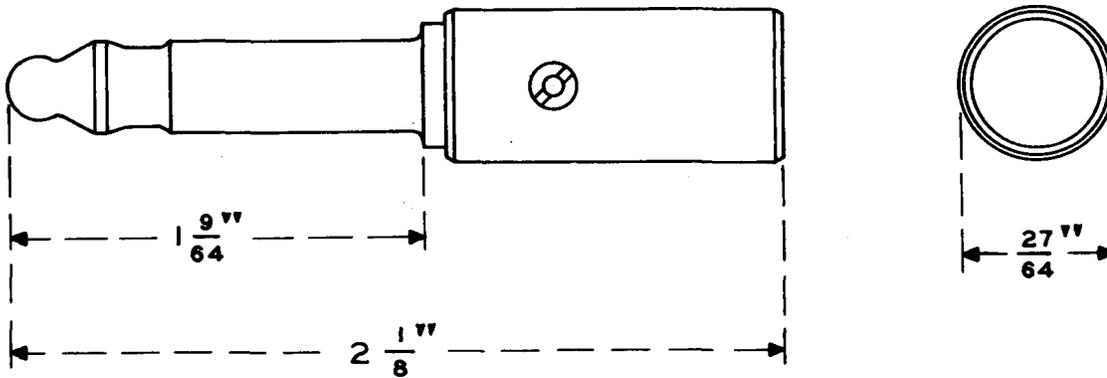
(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 331A	Solid metal fingers and a shell of black insulating material. Short-circuits tip, ring, and sleeve of jacks. Recommended for light service.



No. 331A

(P) 349A	Solid metal finger plug equipped with a red shell. Can also be obtained with a green shell when so specified. Short-circuits tip, ring, and sleeve of jacks.
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No. 349A

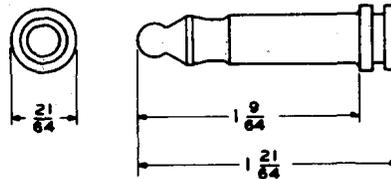
Note:

(P) Preferred Code.

SOLID FINGER MAKE-BUSY PLUGS HAVING 310-TYPE PROFILE (Contd.)

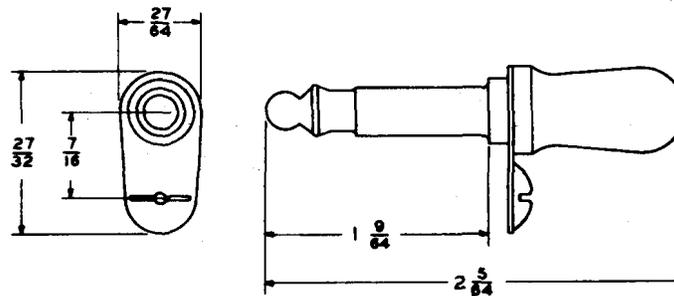
(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 375A	Solid metal finger plug. Short-circuits tip, ring, and sleeve of jacks. Body is grooved to accommodate the No. 274 tool.



No. 375A

(P) 376A	Solid metal finger plug in a handle of black insulating material. Has a small shield which obscures the light from the associated switchboard lamp.
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No. 376A

Note:

(P) Preferred Code.

X-75500

SWITCHBOARD PLUGS

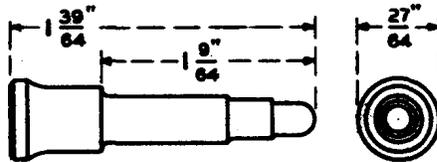
DUMMY PLUGS HAVING 310-TYPE PROFILE

(Not Arranged for Cord Connection)

Code No.

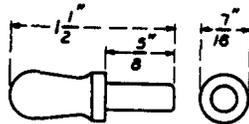
Description

- (P) 258C These plugs are made of insulating material  
(P) 258D and have the following colors:  
(P) 258E 258C - Black  
258D - Red  
258E - Black with White Handle



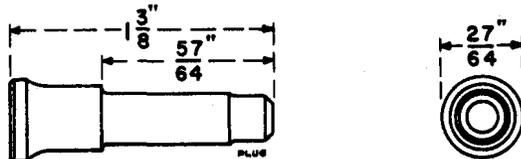
Nos. 258C, D, and E

- (P) 261A Wooden plug for use in operator's multiple practice drills.



No. 261A

- (P) 394A Dummy plug of black insulating material intended for line load control in the No. 12 switchboard. Similar to the 258C plug except that tip section has been removed.

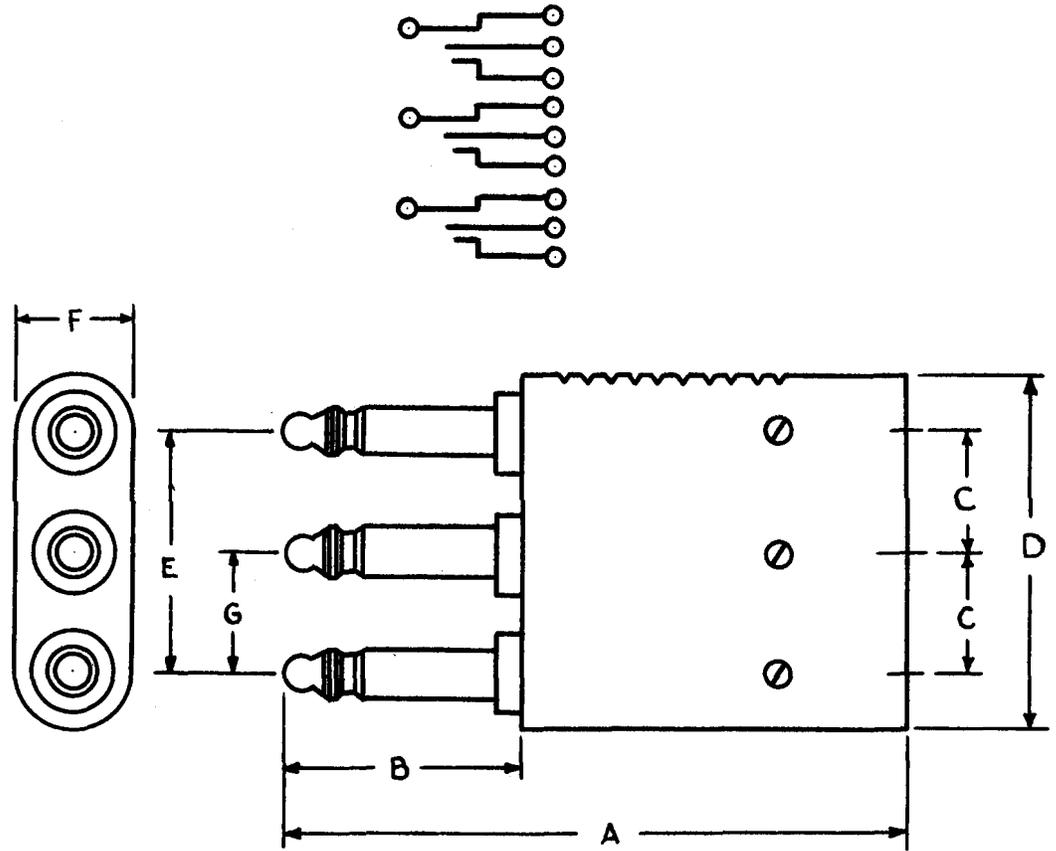


No. 394A

Note:

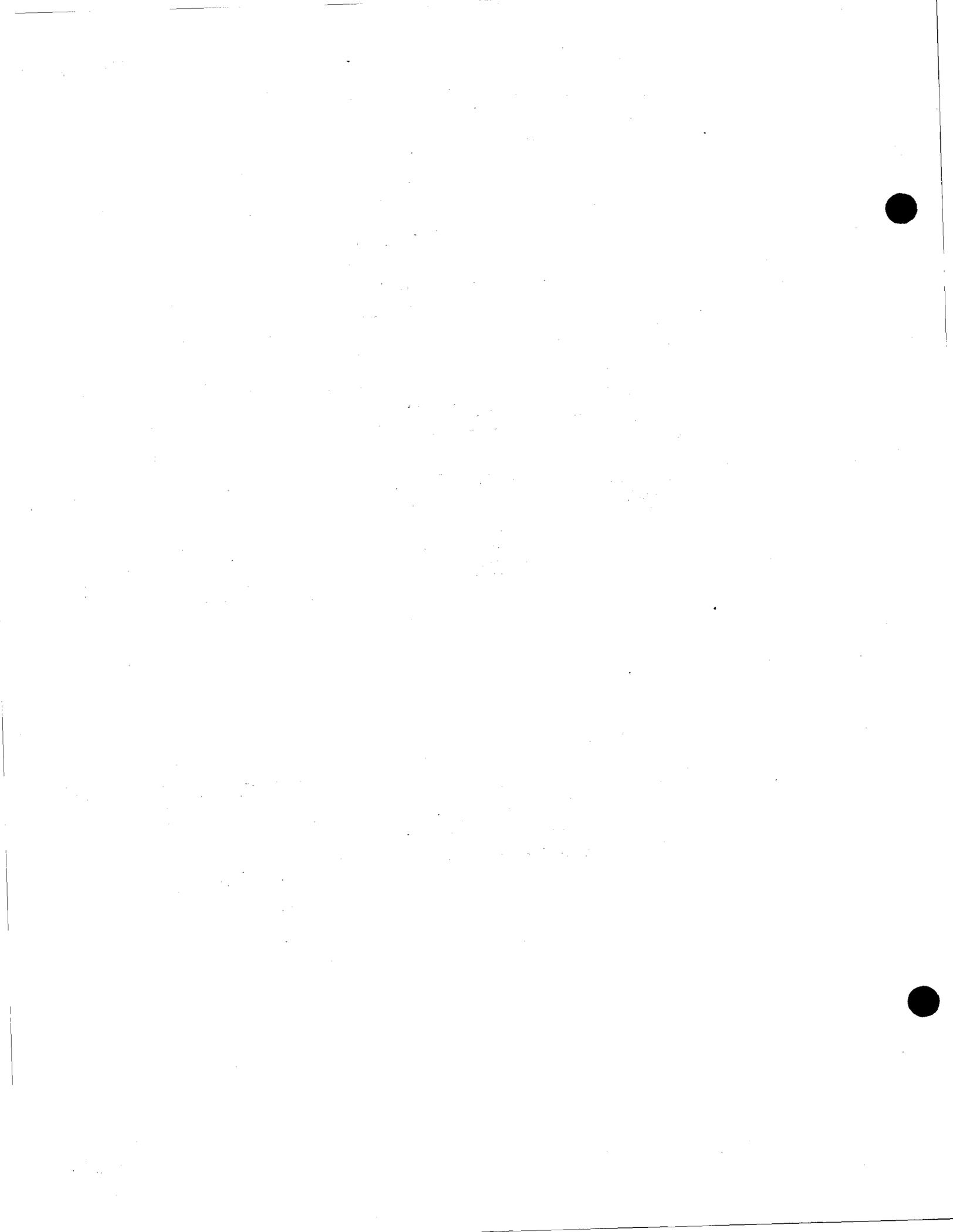
(P) Preferred Code.

TRIPLE PLUG HAVING 310-TYPE PROFILE



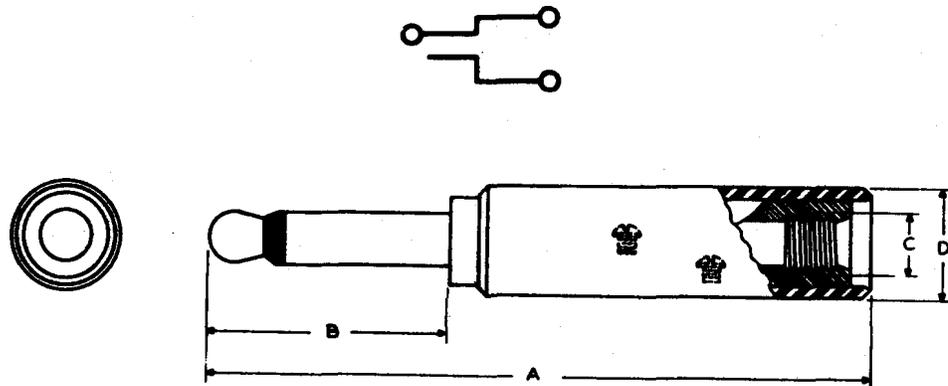
No. 406A

<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 406A	A flexible plug intended for use with J10001G Test Boards.	A - 3-7/32 B - 1-9/64 C - 5/8 D - 1-13/16 E - 1-1/4 F - 19/32 G - 5/8	Black	P9B



TWO-CONDUCTOR PLUGS OF NO. 347 PROFILE TYPE

0.250 NOMINAL DIAMETER OF FINGER



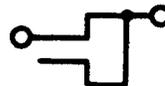
For Use With The Following Jacks

99	215	223	232	281		394	443
200	216	224	233	297	355	396	460
202	217	225	234	303	361	410	462
203	218	226	236	309	364	411	476
208	221	230	237	327		438	484
						440	485

X-75500

SINGLE PLUGS

<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 347A	General purpose plugs.	A - 3-13/32	Red	See List at end of this section.
(P) 347B		B - 1-7/32	(347A)	
	C - 5/16	Black		
	D - 9/16	(347B)		



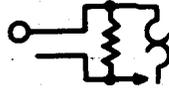
(P) 1B	Intended for connecting single conductor cord to tip, spring, and sleeve of jack.	A - 3-13/32	1B-Black	815, P1A, 1A1A, W1C, W1P
(P) 1C		B - 1-7/32	1C-Red	
		C - 5/16		
		D - 9/16		

Note:

(P) Preferred Code.

SWITCHBOARD PLUGS

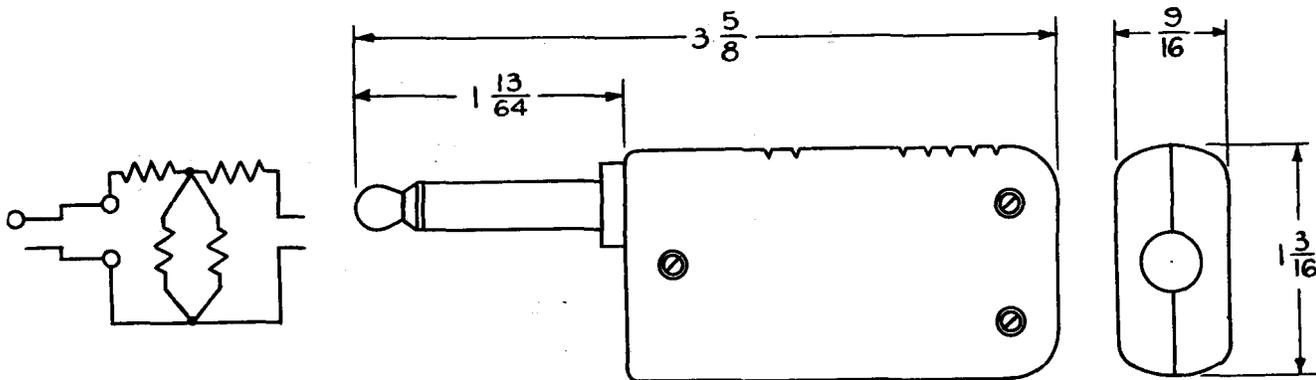
SINGLE PLUGS (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
153D	Provided with resistors which bridge across the tip and sleeve. Butt ends are colored to identify the resistance values as listed below: 153D-400 ohms±20%-red 153E-600 ohms±30%-white 153F-800 ohms±40%-blue Equipped with a thermostatic device which short circuits the tip and sleeve if the current becomes too great, thus operating the protective device in the circuit.	A- 5-9/64	Red	Not arranged for cord connection
153E		B- 1-3/16		
153F		C- --		
		D- 37/64		

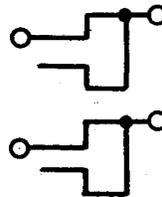
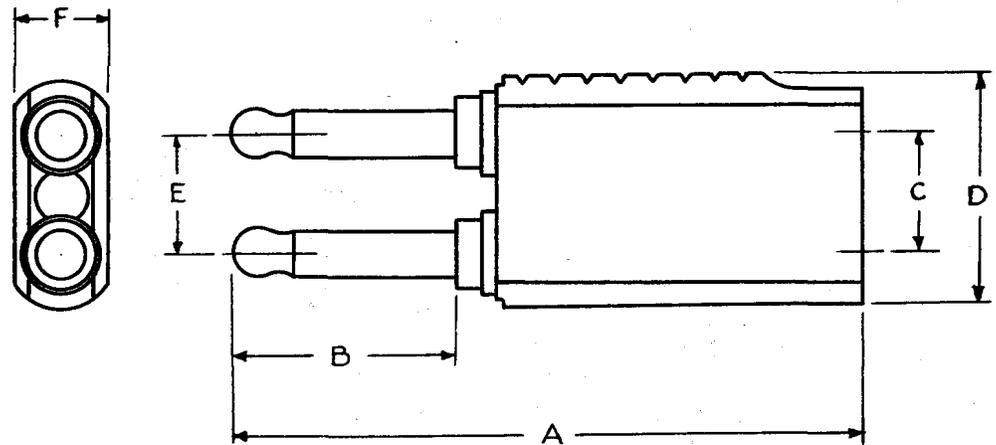
(P) No. 397A Plug

This plug has a shell of black insulating material. A pad having an attenuation of 50 db is connected across the conductors internally. Has terminal leads within the shell for connection to a P2CC cord. It is intended for use with the J98705U test set.



No. 397A Plug

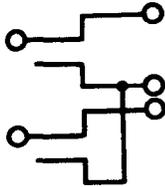
TWIN PLUGS HAVING 347-TYPE PROFILE



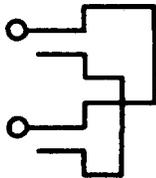
<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
209	Solid metal fingers which connect to both tip spring and sleeve of jack.	A - 3-7/32 B - 1-11/64 C - 5/16 D - 1-3/16 E - 5/8 F - 1/2	Black	S2F

SWITCHBOARD PLUGS

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 241A	Fingers mounted in brass frame which serves as common connection for plug sleeves. Arranged for tip and sleeve cord connections.	A - 3-17/32	241A-Black	P1H,
(P) 241B		B - 1-13/64	241B-Red	R2ET, P2T, S3F, P2AA, W2S, W2BP, P3J, P3N, P4AD
		C - 9/32		
		D - 1-3/16		
		E - 5/8		
		F - 1/2		

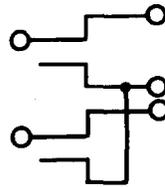


(P) 241C	Same as the No. 241A, except tip terminals are strapped together is not arranged for cord connections.		Black	Not arranged for cord connection.
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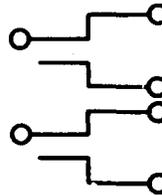
Note:

(P) Preferred Code.

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
241D	Same as the No. 241A, except that plug fingers have silver tips for use where contact resistance is important.		Black	Same as for the No. 241A Plug.



(P) 289B	Intended for use with operators' telephone sets. Equipped with bracket for cord stay.	A - 2-7/16 B - 1-13/64 C - (2)23/64 D - 1-1/4 E - 5/8 F - 5/8	Black	See List at end of this section.
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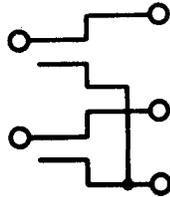
Note:

(P) Preferred Code.

X-75500

SWITCHBOARD PLUGS

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)

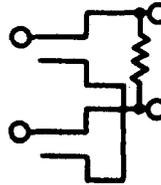


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 305A	Shielded plug with sleeve connections common. Arranged so that a No. 308A plug (see section covering Miscellaneous Plugs) may be connected to the tips at the cord end for monitoring or bridging purposes when the No. 305A plug is being used with its associated cord for patching.	A - 4 B - 1-13/64 C - 17/64 D - 1-13/64 E - 5/8 F - 21/32	Nickel Plate (cover)	M3AN, P3P, W3R W3U
305B	Same as No. 305A, except equipped with silver tips.		Nickel Plate (cover)	Same as for the No. 305A Plug.

Note:

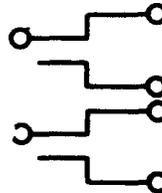
(P) Preferred Code.

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
323A	Sleeves and shell are connected together and form a shield for the tip conductors. Provided with a 135 ±1.5 ohm resistor connected across the tips of the plug fingers. Not designed for cord connections, but is arranged for the No. 308A plug through rear of the shell (see section covering Miscellaneous Plugs).	A - 4 B - 1-7/32 C - -- D - 1-3/16 E - 5/8 F - 41/64	Nickel Plate (cover)	Not arranged for cord connection.

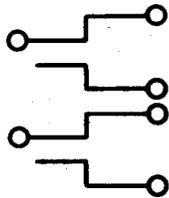
X-75500



324B	Similar to No. 289B plug but arranged to use a pin on the associated jack panel as a locking device.	A - 2-7/16 B - 1-13/64 C - 25/64 D - 1-1/4 E - 5/8 F - 5/8	Black	P3AC, P4AA, P4AC
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SWITCHBOARD PLUGS

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)

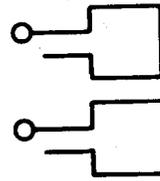


<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 327A	Fingers are insulated from each other and each provides tip and sleeve connection.	A - 3-37/64 B - 1-13/64 C - 5/16 D - 1-3/16 E - 5/8 F - 9/16	Black	P2AL, P2AM, P2BL, P4H, S4B, W2CA
(P) 327B	Same as the No. 327A plug except that it is equipped with a bracket by which the plug may be locked to the projecting pins of the No. 320C jack mounting by a wire and lead seal.		Black	Same as for the No. 327A Plug.

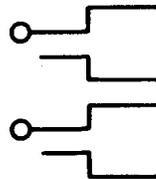
Note:

(P) Preferred Code.

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 327C	Fingers are insulated from each other and the finger nearest the grooved side of shell is solid metal. The tip and sleeve connections of the other finger are insulated from each other. Equipped with a bracket which enables the plug to be locked to the projecting pins of the No. 230C jack mounting by means of a wire and lead seal. The end bears the marking "T."		Black	Not arranged for cord connection.



(P) 327D	Same as the No. 327C, except that the fingers are interchanged and the end bears the marking "R."		Black	Not arranged for cord connection.
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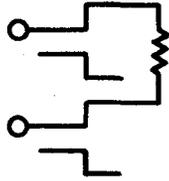
Note:

(P) Preferred Code.

X-75500

SWITCHBOARD PLUGS

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 328A	Have resistors which bridge across the tip springs of a pair of jacks when the plug is inserted. The butt ends of the plugs are engraved with the nominal resistance values.	A - 3-5/8	Black	Not arranged for cord connection.
(P) 328B		B - 1-13/64		
(P) 328C		C - --		
(P) 328D		D - 1-3/16		
(P) 328E		E - 5/8		
		F - 9/16		

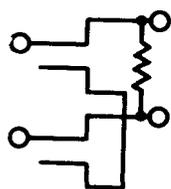
Resistance Values

- 328A - 700 ±1 ohms
- 328B - 1130 ±1.6 ohms
- 328C - 1800 ±2.4 ohms
- 328D - 600 ±0.15 ohms
- 328E - 400 ±1 ohms

Note:

(P) Preferred Code.

TWIN PLUGS HAVING 347-TYPE PROFILE (Contd.)



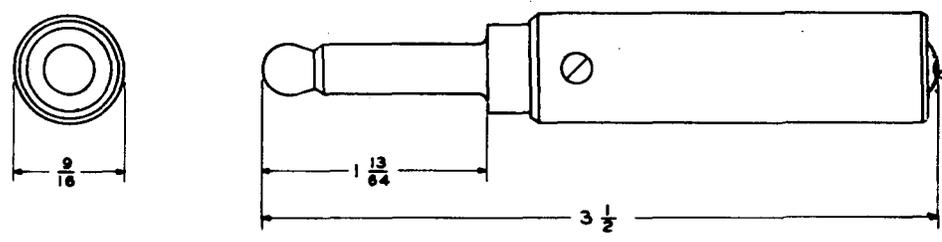
<u>Code No.</u>	<u>Description</u>	<u>Dimensions</u>	<u>Color of Shell</u>	<u>Cord</u>
(P) 381A	Provided with a 125-ohm resistor connected across the tips. Designed to dissipate 6 watts for 30 minutes without incurring fire or personal hazards. Not arranged for card connections, but is arranged for the No. 308 Plug.	A - 5-13/16 B - 1-13/64 C - -- D - 1-13/64 E - 5/8 F - 39/64	Black	

X-75500

SOLID FINGER MAKE-BUSY PLUGS HAVING NO. 347-TYPE PROFILE

(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 373A	Solid metal finger plug, equipped with a red shell. Short-circuits tip spring and sleeve of jack.



No. 373A

Note:

(P) Preferred Code.

SWITCHBOARD PLUGS

SOLID FINGER MAKE-BUSY PLUGS HAVING NO. 347-TYPE PROFILE (Cont'd.)

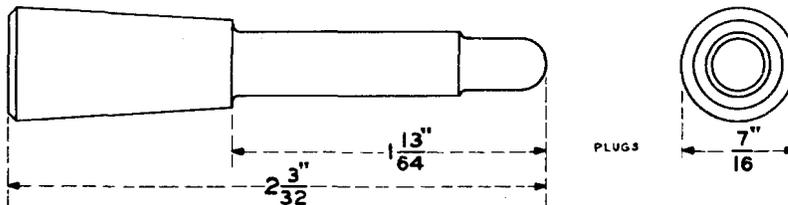
(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 373B	Same as the No. 373A except equipped with a black shell.

DUMMY PLUGS HAVING A 347-TYPE PROFILE

(Not Arranged for Cord Connection)

<u>Code No.</u>	<u>Description</u>
(P) 165C 165D	These plugs are made of insulating material and have the following colors: 165 C - Black 165 D - Red



Nos. 165C and D

Note:

(P) Preferred Code.

CORDS

In addition to the cords listed, there are a number of cases where plugs equipped with cords have been assigned combination code numbers under the classification "Cords" consisting of a number-letter-number-letter. The first character of the code, a number, indicates the number of cord conductors connected through the plug. The second character, a letter, (P or W), indicates the principal use of the cord, P for patching and W for testing. The third character, a number, is arbitrarily assigned in sequence to indicate various combinations of plugs and cords. The fourth character, a letter, is also arbitrarily assigned in sequence to indicate variations of a particular combination such as a different color plug shell, cord covering, length, etc.

If a suitable cord is available for use with the plug chosen, the engineer should consult the Western Electric Card Catalog under the classification "Cords" to determine whether or not a code has been assigned to that particular combination.

289 Plug

H4N	L4R	L4AK	P2AE	W4Y
H4U	L4T	L4AW	P4K	W4AC
H4Y	L4U	L4AY	P4L	W4AD
H4AG	L4AB	L4BA	P4N	W4AE
H4AM	L4AC	L4BB	P4R	W4AF
H4AP	L4AD	L4BG	R2FG	W4AG
H4BK	L4AE	L4BH	W2AR	W4AL
H4BL	L4AF	L4BJ	W2AW	W4AN
L2K	L4AG	L4BK	W2AY	
L2P	L4AH	M2CG	W4G	
L2U	L4AJ	M4S	W4M	

SWITCHBOARD PLUGS

CORDS

309 Plug

H5E	S3A
P1E	S3G
P2G	S3H
P2P	T3G
P2AH	W2L
P2AM	W2BB
P3D	W2BR
P3F	W3K
P3L	W3Y
P3W	642
P4Y	643

310 Plug

H3L	P2CA	P3AJ	W2C	W3C
H3AC	P2CB	P3AL	W2J	W3E
M1N	P2CD	P3AM	W2M	W3F
M2CS	P2CF	P3AN	W2R	W3M
M2CY	P2CG	P4Y	W2T	W3N
M3BL	P2CH	P5B	W2W	W3AB
P1D	P2CL	P6B	643	W3AC
P2B	P3A	R2CF	W2AS	W3AE
P2H	P3B	R2CN	W2BS	W3AJ
P2J	P3E	R2DP	W2CC	W3AL
P2P	P3F	R2EB	W2CF	W4H
P2AD	P3H	S1B	W2CK	W4R
P2AE	P3K	S2B	W2CN	W4AW
P2AH	P3L	S2M	W2CP	W6A
P2BG	P3N	S3B	W2CR	W6C
P2BK	P3R	S3J	W2DJ	W6D
P2BL	P3S	W1B	W2DL	W7A
P2BM	P3U	W1W	W2EJ	
P2BY	P3AA	W1AC	W3A	

CORDS347 Plug

D2G	P2CE	W2BD
H5E	R2DA	W2BJ
M2CN	R2DB	W2BK
M2CR	R2FF	W2BY
P1B	S1C	W2CD
P1G	S2A	W2CG
P1L	S2L	W2CS
P2A	W1H	W2CU
P2R	W2B	W2DR
P2T	W2F	W2EB
P2AK	W2H	W2EH
P2AR	W2N	W3AK
P2AS	W2AA	630
		757







X-75500

SECTION XI  
COAXIAL PLUGS

## COAXIAL PLUGS

### General

Unless otherwise specified, all coaxial plugs described herein have one inner contact surface and one outer contact surface coaxially arranged, and are designed for use with No. 724 cable or KS-8086 cable (or similar cables of the same diameter). Their use with cables of other diameters is described on ED-92524-01. The schematic symbol for such plugs is shown below. Symbols for plugs having different schematics are given adjacent to the illustrations.



All single Western Electric Company coded coaxial plugs will mate with all single jacks. All twin plugs will mate with all twin jacks except for the No. 370A plug which has fingers on 1-3/4-inch centers instead of the customary 5/8-inch. Twin plugs will also mate with any two single jacks which are mounted on the same centers as the plug fingers.

The contact surfaces of all Western Electric Company coded coaxial plugs are gold-plated.

Where solderless connection is specified for the shield, sleeve for making this connection is furnished as a loose part.

Information regarding methods of terminating cables in certain coaxial plugs is shown on ED-92524-01.

For a list of adapters and connectors used with coaxial jacks and plugs, see Section III.

### Impedance Characteristics

Western Electric Company coded plugs and jacks designed for minimum impedance mismatch at 75 ohms up to at least 100 megacycles are identified by means of chromium finish, except the Nos. 370 and 372 type plugs which have an aluminum finish. The No. 374 type plugs have a chromium finish but provide the above minimum impedance mismatch up to 10 megacycles.

Plugs Intended for Use with 464-Type Jacks

These plugs are intended for use with the following types of jacks: Nos. 464, 465, 466, 468, 470, 472, 474, 475, 479, 480, and 489 jacks. They may be used with other Western Electric coaxial jacks but when so used, the combination will not have the minimum impedance mismatch of which the improved No. 477-type jacks, for example, are capable.

Plugs Intended for Use With 477-Type Jacks\*

These plugs are intended for use with the following types of jacks: Nos. 477, 478, 486, 487, 488, 490, 491, and 492 jacks. They may be used with other Western Electric coded coaxial jacks but when so used will not have the minimum impedance mismatch for which they are designed.

AN Type Plugs

AN type plugs may be used with jacks of the same AN type.

\*The 389A Plug will mate with all 477-type jacks other than the 491A and 492A. The 390A, 391A, and 392A plugs will mate with all 477-type jacks other than the 491A.

# COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS (See Page 3)

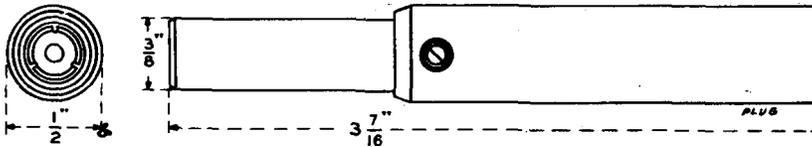
## SINGLE PLUGS

(P) No. 337C Plug

Test Voltage

2,000 ac

This plug is arranged for use with the RG-59/U Coaxial Cables or other cables of the same diameter. Provision is made for housing a No. 106-type resistance to be connected in series between the center contact of the plug and the center conductor of the coaxial cable.



No. 337C

Note:

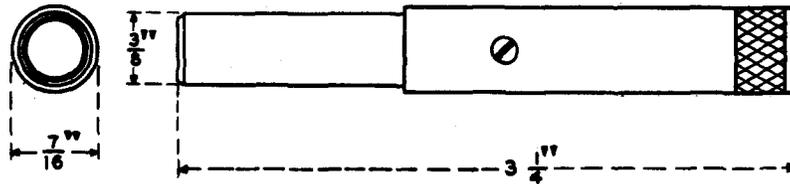
(P) Preferred Code.

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

SINGLE PLUGS (Contd.)

(P) No. 339A Plug

This is a dummy plug. It does not short circuit the coaxial members of the mating jack. Has a black finish to distinguish it from the Nos. 340C and D. May be used also with the No. 477-type jack.



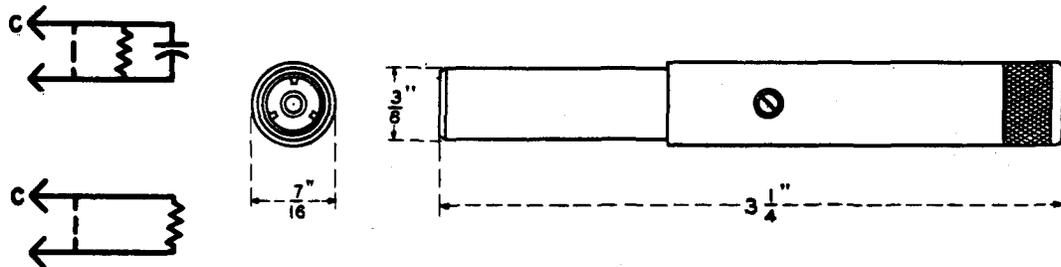
No. 339A

(P) No. 340C and (P) No. 340D Plugs

Test Voltage

2,000 a-c

These plugs are closed at one end and are not arranged for cord or cable connection. The No. 340C contains a  $75 \pm 2$  ohm resistor and a 30 mmf condenser connected in parallel across the coaxial members. The No. 340D contains a 500  $\pm 5$  per cent ohm resistor connected across the coaxial members.



Nos. 340C and D

Note:

(P) Preferred Code.

X-75500

COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

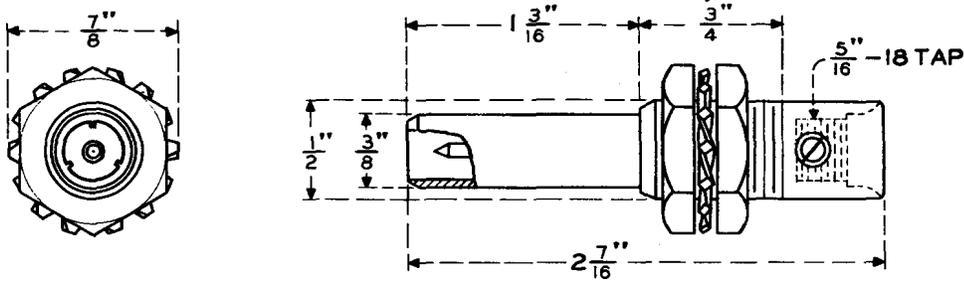
SINGLE PLUGS (Contd.)

(P) No. 342B Plug

Test Voltage

2,000 a-c

For similar plug not intended for use with cables, see No. 343 type.



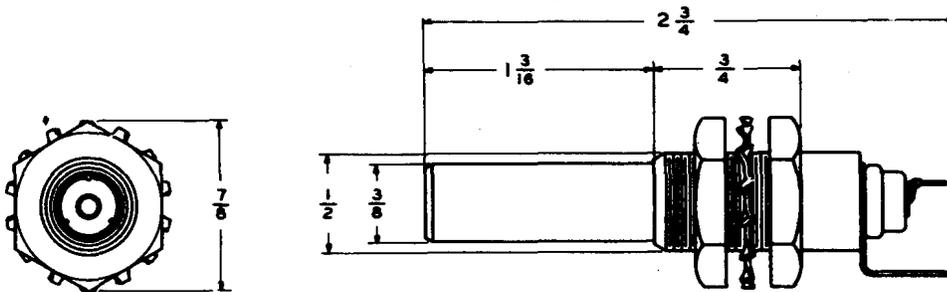
No. 342B

(P) No. 343B Plug

Test Voltage

2,000 a-c

This plug has terminals at the rear for connecting wires (instead of coaxial cable) to inner and outer conductors. For similar plug intended for use with cables see No. 342 type.



No. 343B

Note:

(P) Preferred Code.

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

TWIN PLUGS

(P) Nos. 341E and 341F Plugs

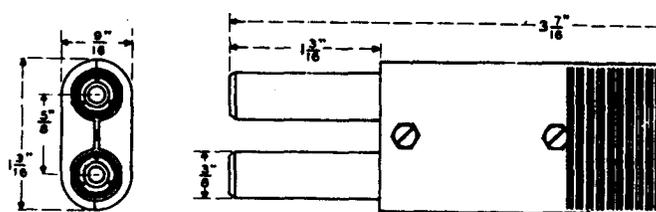
Test Voltage

2,000 ac

These plugs are not intended for cord or cable connection. The outer contacts are not insulated from the metal case. The outer contacts are strapped together and to the midpoint between two resistors.

The 341E plug's inner contacts of the coaxial fingers are interconnected by two 55 ohm resistors in series. It is intended for use in terminating a video line at switching centers in television centers.

The 341F plug's inner contacts of the coaxial fingers are interconnected by two 61.9 ohm resistors in series. It is intended for use in the J44107 television operating center.



341 Type

Note:  
(P) Preferred Code.

COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

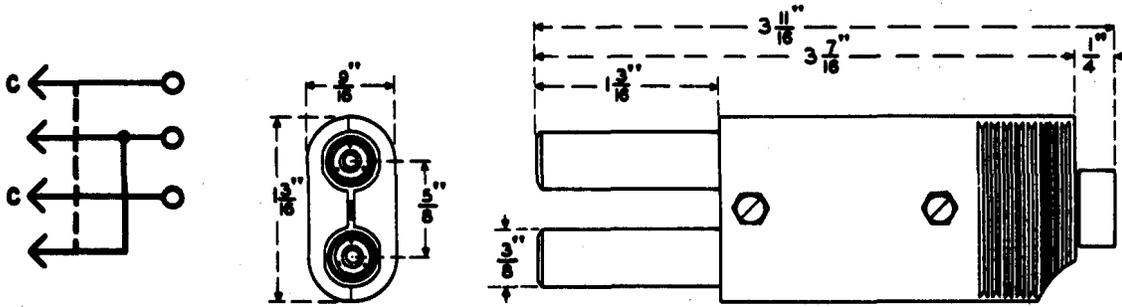
TWIN PLUGS (Contd.)

No. 345B Plug

Test Voltage

2,000 ac

The outer contacts of the fingers are electrically connected together and are not insulated from the case. The two inner contacts are insulated from each other and from the case. The inner contacts are intended to be connected to the two conductors of a No. 720 cable.



No. 345B

PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

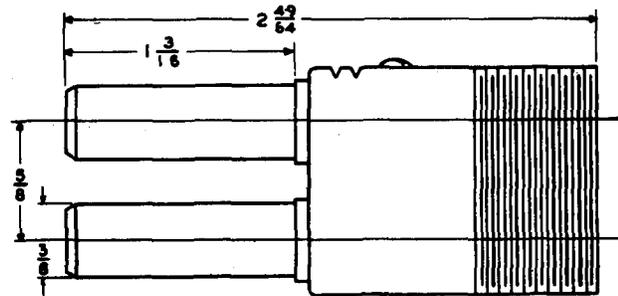
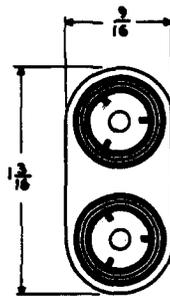
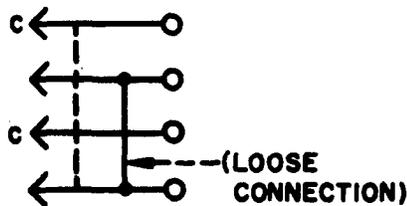
TWIN PLUGS (Contd)

(P) No. 379A Plug

Test Voltage

2,000 ac

Each finger is arranged for connection to a separate cord. Case is notched at one side for polarization purposes. Fingers are on 5/8-inch centers. The outer contacts of the fingers are loosely connected to the metal cover. This plug provides a continuous shield from each of the two fingers to the connecting cord, thereby minimizing leakage to adjacent circuits. It is designed for use with the P3AH cord.



No. 379A

Note:

(P) Preferred Code.



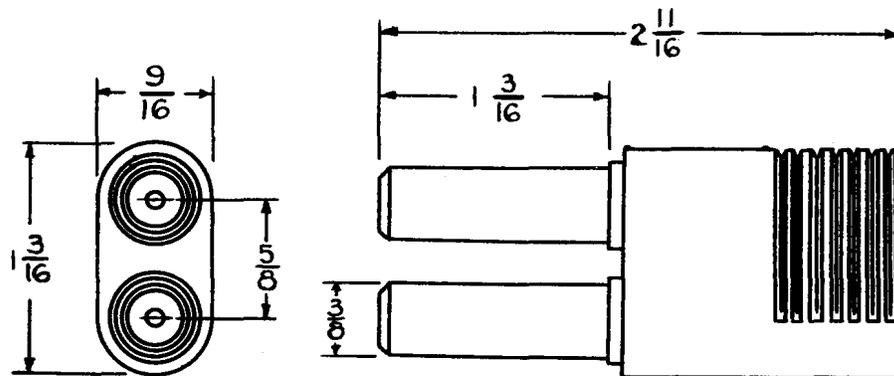
PLUGS INTENDED FOR USE WITH NO. 464-TYPE JACKS  
(See Page 3)

## TWIN PLUGS (Contd.)

(P) No. 408A PlugTest Voltage

2,000 ac

This plug consists of a pair of coaxial plug fingers held flexibly in a metal shell. Each finger has an inner contact held in a tubular body which is the outer contact. Shield connection, from each finger to the cable, is made by means of a KS-15712, List 5 Outer Sleeve, two of which are furnished with the plug. The shell is notched on one edge for identification purposes. It is intended for use with the P3AH and P3AP cords in video transmission circuits of television systems.



No. 408A Plug

## COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 477-TYPE JACKS  
(See Page 3)

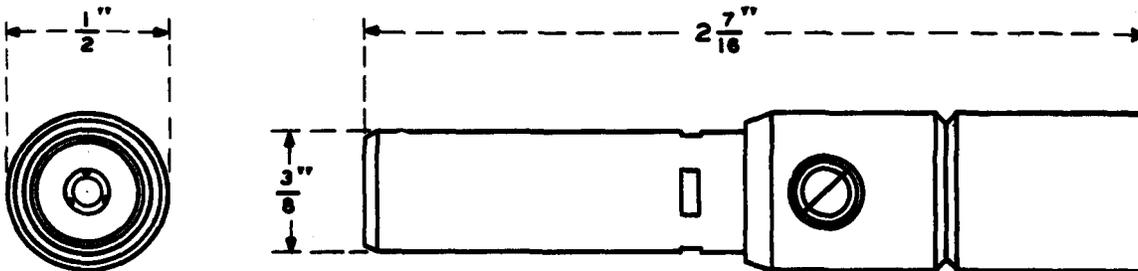
### SINGLE PLUGS

(P) No. 358A Plug

Test Voltage

2,000 a-c

This plug is arranged for solderless shield connection to the connectin cable by means of a sleeve which is furnished as a loose part. It will provide a good impedance match for 75-ohm coaxial cable, such as the No. 724 type, up to at least 100 megacycles. Used on the P2BJ cord. Chromium finish.



No. 358A

(P) No. 368A Plug

Test Voltage

2,000 a-c

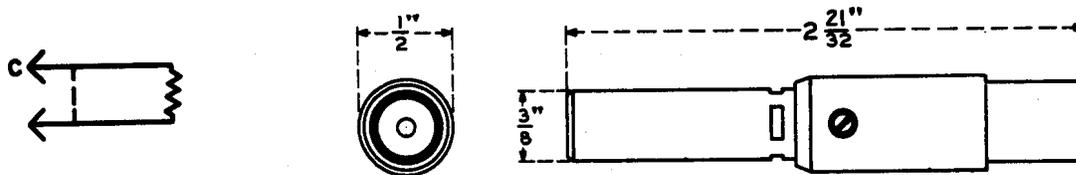
Contains a 75-ohm deposited carbon rod resistor mounted coaxially with the outer housing and connected across the coaxial members. It is not arranged for cord or cable connection. The maximum continuous dissipation is 0.1 watt. The return loss of an ideal 75-ohm transmission line terminated in this plug is greater than 45 db at frequencies up to 80 megacycles. Chromium finish.

Note:

(P) Preferred Code.

PLUGS INTENDED FOR USE WITH NO. 447-TYPE JACKS  
(See Page 3)

SINGLE PLUGS (Contd)



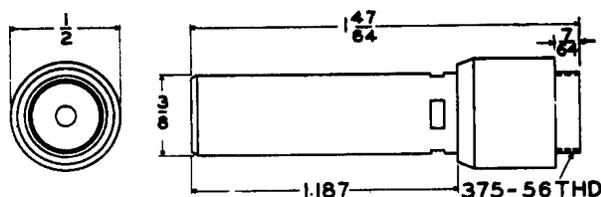
No. 368A

No. 369A Plug

Test Voltage

2,000 ac

This plug is chromium finished for identification purposes. Not for cable connection. When used with the No. 477 or similar type jacks, it will provide a minimum mismatch at 75 ohms up to at least 100 megacycles. The rear end of the body is threaded for assembly to associated apparatus. The rear end of the center contact is arranged for soldered wire connection.



No. 369A

Note:

(P) Preferred Code.

COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 477-TYPE JACKS  
(See Page 3)

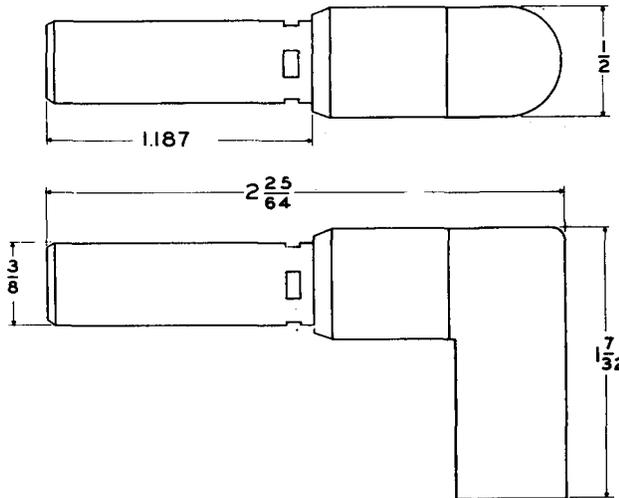
SINGLE PLUGS (Contd.)

(P) No. 374A Plug

Test Voltage

2,000 a-c

This is a single finger plug arranged for solderless shield connection to the connecting cable. When used with the No. 477 type or similar jacks it will provide a good impedance match for 75-ohm coaxial cable such as the No. 724 type, up to at least 10 megacycles. The shell over the body and the sleeve of the elbow section are chromium-plated for identification purposes.



No. 374A

Note:

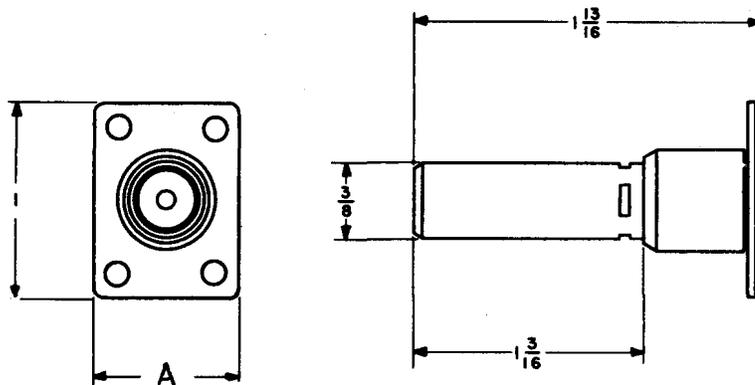
(P) Preferred Code.

INTENDED FOR USE WITH NO. 477-TYPE JACKS  
(See Page 3)

## SINGLE PLUGS (Contd.)

<u>No. 208A Connector</u>	<u>Test Voltage</u>
<u>(P) No. 801A Connector</u>	2,000 ac

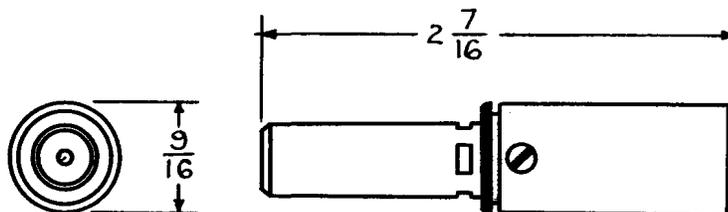
These connectors are arranged for soldered wire connection to the inner contact terminal at the mounting end, not for coaxial cable connection. Connection to the body is made through the mounting plate. Chromium finish. They are designed for minimum impedance mismatch at 75 ohms up to at least 100 megacycles. Dimension A is  $3/4$  for 208A and  $9/16$  for 801A.



Nos. 208 and 801

<u>(P) No. 802A Connector</u>	<u>Test Voltage</u>
	2,000 ac

The 802A connector is arranged at one end for solderless shield connection to a No. 724 or similar type cable by means of a sleeve which is furnished as a loose part. The shell has an annular groove to accommodate a special mounting bracket (not furnished). When mounted, connection to the body is made through this mounting bracket. Intended for use on J44105J equalizer panel in the A2A video system.



No. 802

Note:  
(P) Preferred Code.

# COAXIAL PLUGS

PLUGS INTENDED FOR USE WITH NO. 477-TYPE JACKS  
(See Page 3)

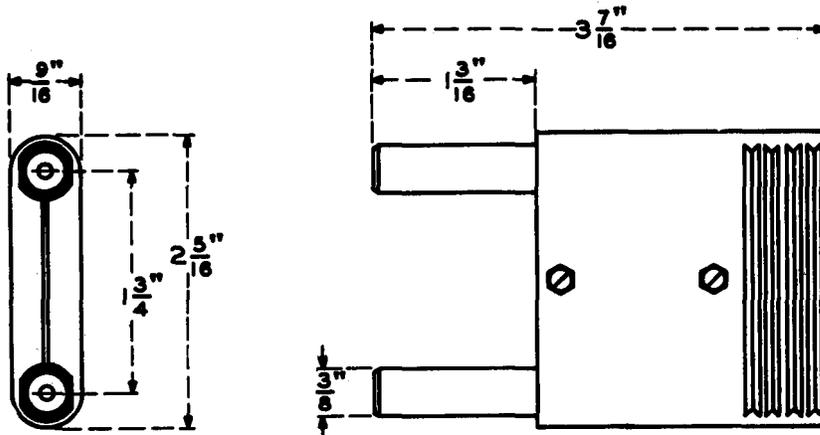
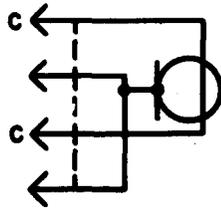
## TWIN PLUGS

(P) No. 370A Plug

Test Voltage

2,000 a-c

This is a twin plug intended for mating with two jacks on 1-3/4-inch centers. The inner and outer contacts of one finger are connected to the corresponding contacts of the other finger. The outer contacts are not insulated from the metal shell. It is not arranged for cord or cable connections. When used with the No. 477 or similar type jacks, it will provide a good impedance match for 75-ohm coaxial cable such as the No. 724 type, up to at least 100 megacycles. Aluminum case.



No. 370A

Note:

(P) Preferred Code.

PLUGS INTENDED FOR USE WITH NO. 477-TYPE JACKS  
(See Page 3)

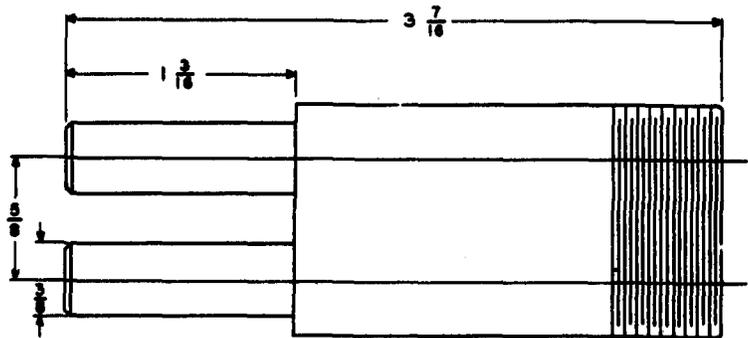
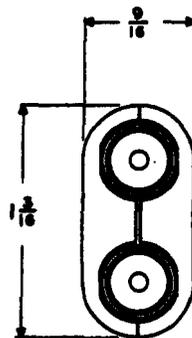
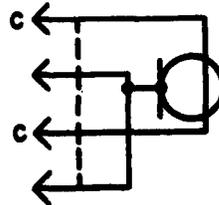
TWIN PLUGS (Contd.)

(P) No. 372A Plug

Test Voltage

2,000 ac

This plug is the same as No. 370A except fingers on 5/8-inch centers. Not for cord or cable connection. When used with the No. 477 or similar type jacks, it will provide a good impedance match for 75-ohm coaxial cable such as the No. 724 type, up to at least 100 megacycles. Inner and outer contacts of one finger are connected to the inner and outer contacts respectively of the other finger. Outer contacts are not insulated from the shell. Aluminum case.



No. 372A

Note:  
(P) Preferred Code.

X-75500



PLUGS INTENDED FOR USE WITH NO. 477-TYPE JACKS (See Page 3)

Twin Plugs (Contd)

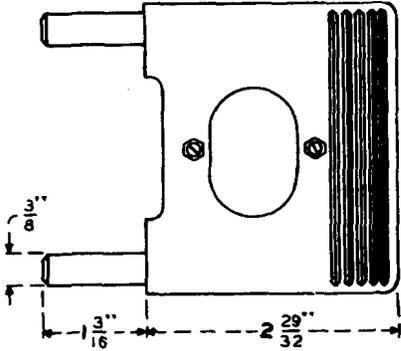
Nos. 389A, 390A, 391A, and 392A Plugs

Test Voltage

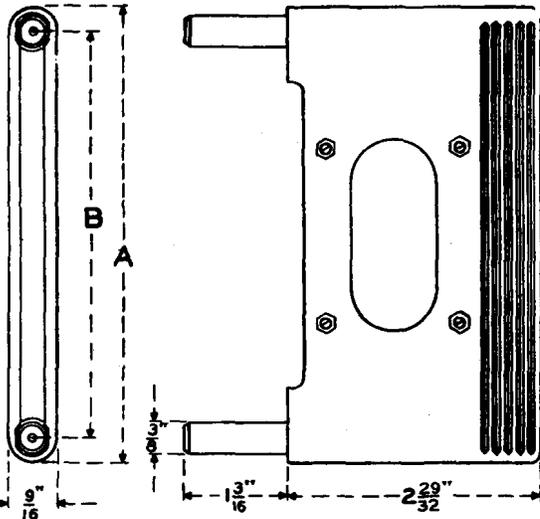
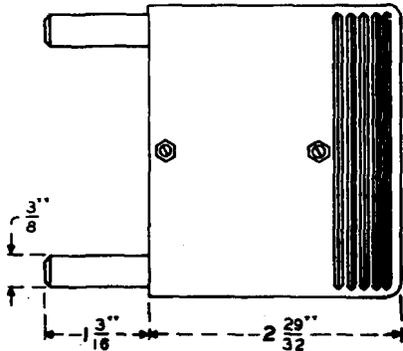
2,000 ac

Twin plugs intended for mating with two adjacent jacks mounted on various centers. Each coaxial plug member consists of a brass cylindrical body having a brass contact finger assembled concentrically within the body by means of an insulator. The center contact finger and the body of one member are connected by a coaxial cable within the case to the corresponding parts of the other member. Used with the automatic switching equipment in the TD-2 radio system. Held in a gray plastic case by a gray plastic core. Not arranged for cable or cord connection.

Code No.	Dimensions (Inches)	
	A	B
389A	1-13/16	1-1/4
390A	3-5/16	2-3/4
391A	5-3/16	4-5/8
392A	5-7/16	4-7/8



390A



391A and 392A

3-57

XI-15A

X-75500

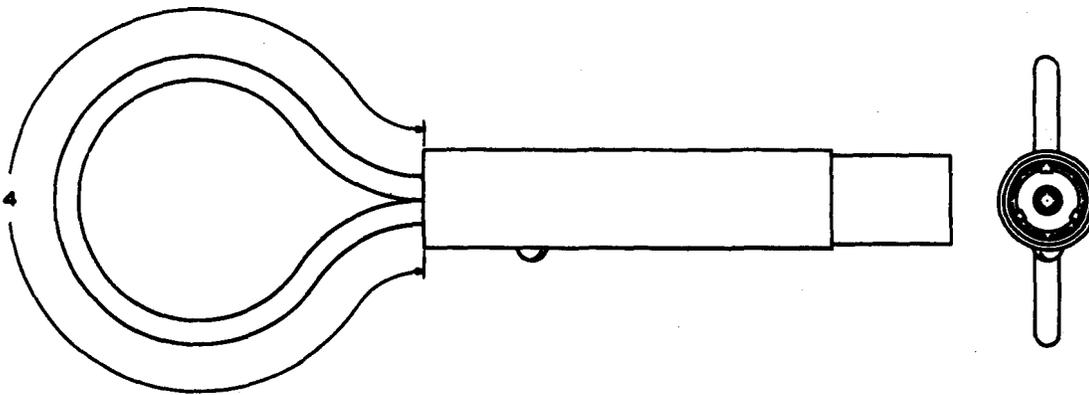
# COAXIAL PLUGS

PLUG INTENDED FOR USE WITH NO. 337-TYPE PLUGS

## SINGLE PLUGS

### (P) No. 365A Plug

This plug consists of a No. 466B jack, the center contact of which is connected to the body of the jack by means of a copper wire having a waterproof insulation and formed into a loop as shown. Intended for verifying the presence of power in a coaxial cable circuit.



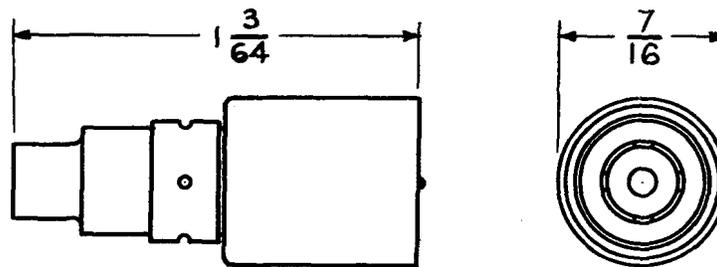
No. 365A

Note:

(P) Preferred Code.

"AN" TYPESINGLE PLUGKS16416 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS16417 Jack	---	50 ohm	BN	UG-245/U	RG-59/U, 62/U



KS16416

COAXIAL PLUGS

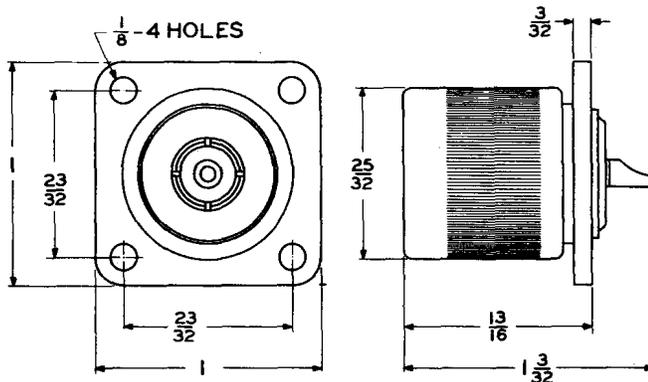
"AN" TYPE

SINGLE PLUGS (Contd.)

KS-13727 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13735 or other similar jacks	500 a-c	50 ohm	N	—	none

Silver-plate finish. Similar to UG-21A/U except the plate for panel mounting. Arranged for open-wire connections.



KS-13727

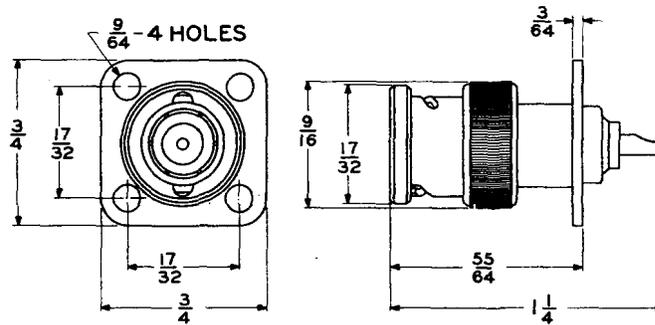
"AN" TYPE

SINGLE PLUGS

KS-13723 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13739 or other similar jacks	500 a-c	not constant	BNC	--	none

Silver-plate finish. For open-wire connections. Similar to UG-260/U except plate for panel.



KS-13728

X-75500

COAXIAL PLUGS

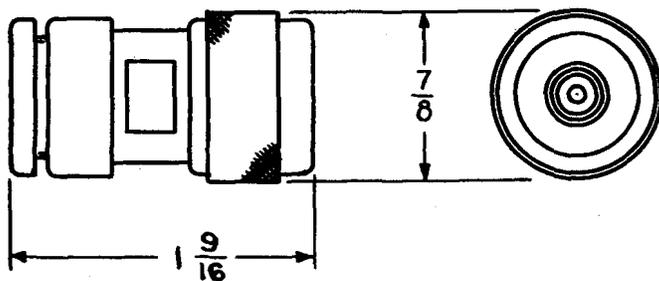
"AN" TYPE

SINGLE PLUGS (Contd.)

KS16290 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS16289 Jack	500 ac	50 ohm	N	UG-21D/U	724

Silver-plate finish. Shield connection to the 724 cable is by means of a KS15712 Outer Sleeve (List 5), not furnished with plug.

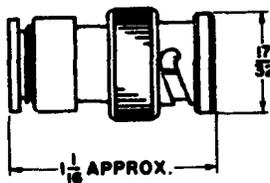


KS16290

"AN" TYPESINGLE PLUGS (Contd.)KS-13737 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13738 or other similar jacks	500 a-c	not constant	BNC	UG-260/U	RG-59/U, 62/U, 71/U

Weatherproof plug. Silver-plate finish.  
Used with P2BB and P2BC cords.

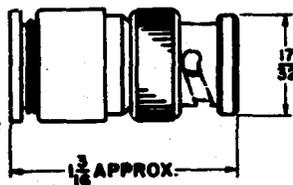


## KS-13737

KS-13819 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-13740 or other similar jacks	500 a-c	not constant	BNC	--	RG-6/U

Silver-plate finish. Similar to KS-13737 except takes RG-6/U cable.



## KS-13819

A-12200

COAXIAL PLUGS

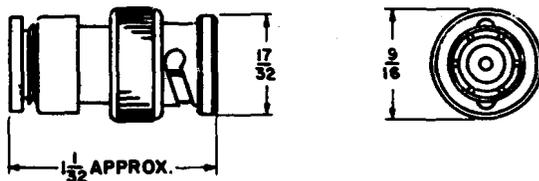
"AN" TYPE

SINGLE PLUGS (Contd.)

KS-14183 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-14184 Receptacle or similar jacks	500 a-c	not constant	BNC	UG-88/U	RG-58/U

Weatherproof plug. Silver-plate finish.

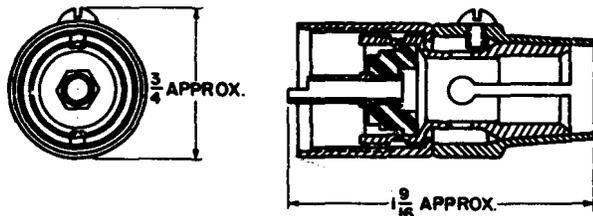


KS-14183

KS-14207 Plug

<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS-14206 Adapter or UHF jacks	500 a-c	not constant	UHF	Army-PI-259A Navy-C-49195	RG-8/U, 9, 10, 11, 12, 13, 63, 65

Silver-plate finish.



KS-14207

"AN" TYPETWIN PLUGSKS14323 Plug

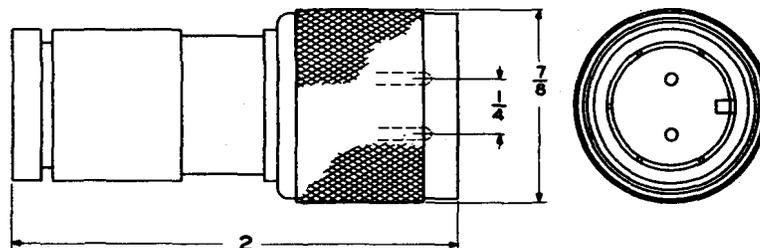
<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14324 Jack	500 ac	95 Ohms	UHF Twin	---	RG-22/U, RG-22A/U

Weather-proof plug. Silver-plate finish. Twin plug same as the UG-421/U plug, except that it is modified to accommodate and clamp the above cables. Used with the P3AG cord.

KS16288 Plug

KS16287, KS14324 Jacks	500 ac	95 ohms	UHF Twin	---	720,724
------------------------------	--------	---------	-------------	-----	---------

Silver-plate finish. Twin plug similar to UG-421/U plug except that it is modified for use with the above cables. Shield connection to these cables is made by means of KS15712, List 6 Outer Sleeve, not furnished as part of plug.



KS14323 and KS16288

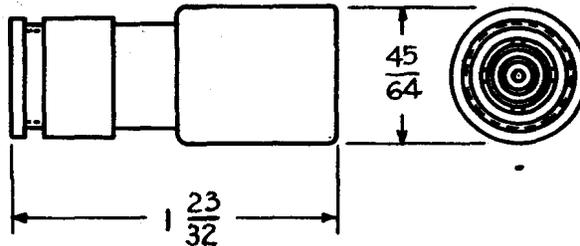
COAXIAL PLUGS

MISCELLANEOUS PLUGS, GOVERNMENT TYPE

KS14317 Plug

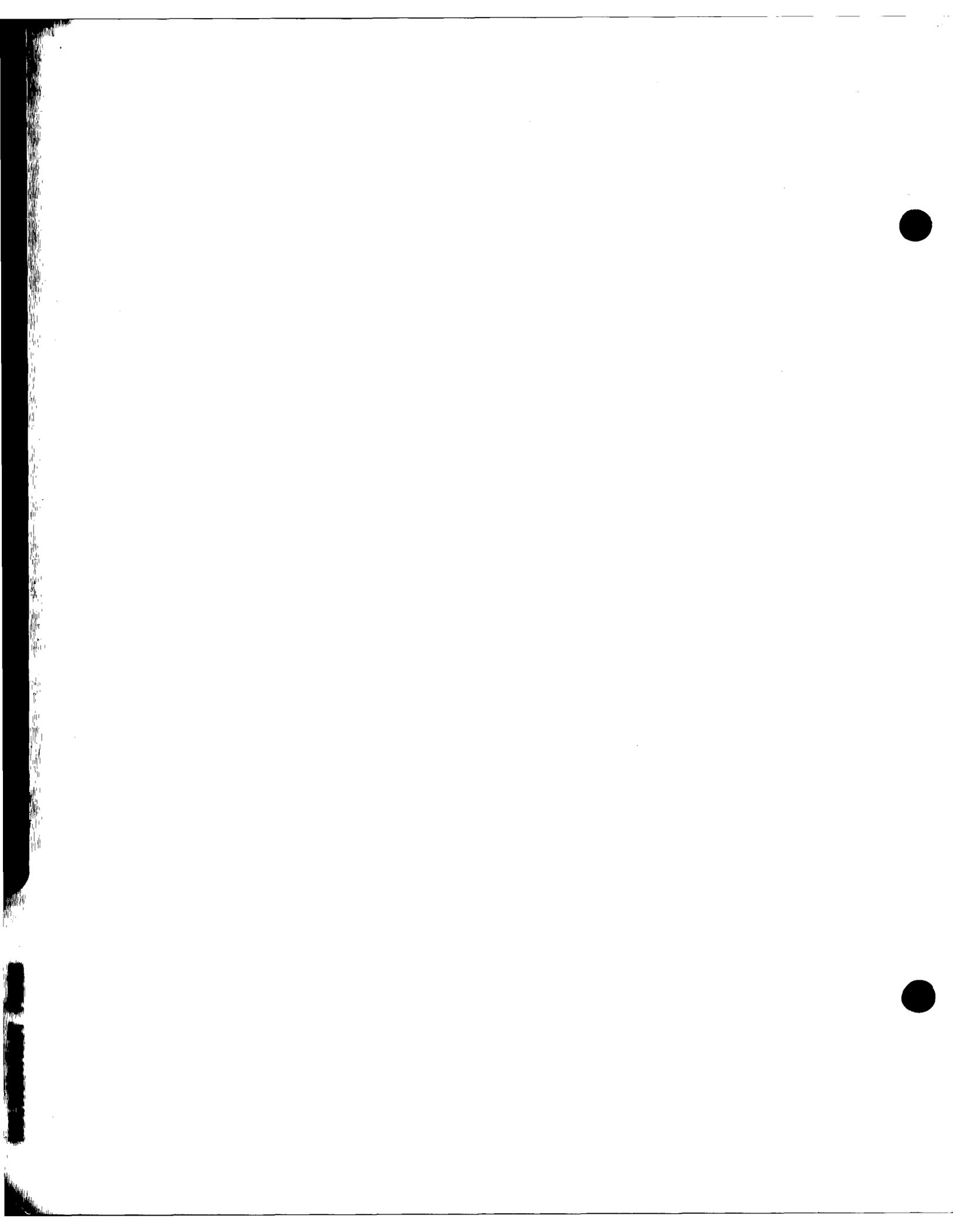
<u>Associated Apparatus</u>	<u>Rated Peak Voltage</u>	<u>Rated Impedance</u>	<u>AN Type</u>	<u>Government Designation</u>	<u>Connecting Cables</u>
KS14318, KS14319, KS14405 Jacks	See note	---	---	---	724

Silver-plate finish. For operating up to 3,000 volts peak at an altitude of 9,000 feet above sea level and in ambient temperatures between -40°F and +125°F. KS14391 Tool required for tapering cable insulation. Used with the following cords; P2BT and P2BU.



KS14317





X-75500

SECTION XII  
MULTICONTACT PLUGS

7-15-52

xii-1

## MULTICONTACT PLUGS

### MULTICONTACT PLUGS

This section contains information on multicontact plugs. These are defined as follows:

- (a) Plugs having more than two fingers.
- (b) Plugs having three or more contact springs.

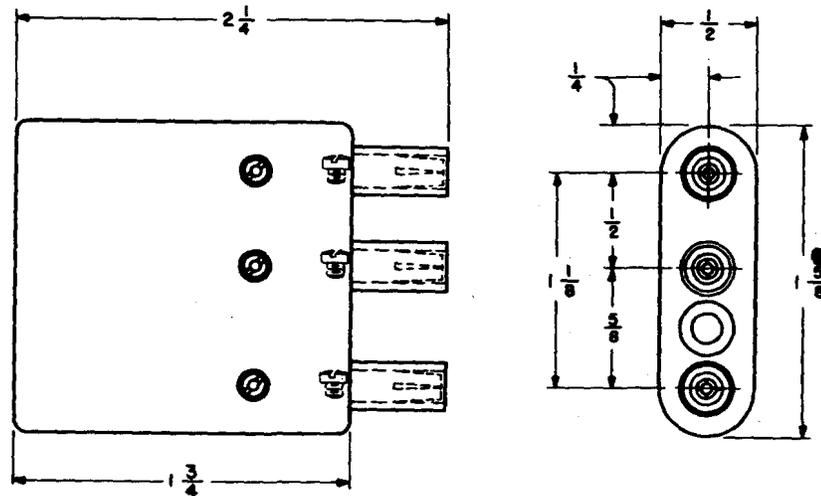
The information is arranged in accordance with the number of contact springs or fingers of the respective plugs.

Connectors having male contacts, similar to plugs, have been included in this section.

In cases where there are a number of plugs of the same code number (i.e. 240A, 240B, 240C, etc.) having various numbers of contacts, all the plugs are listed together and cross referenced as required.

Three Contacts(P) No. 306A Plug

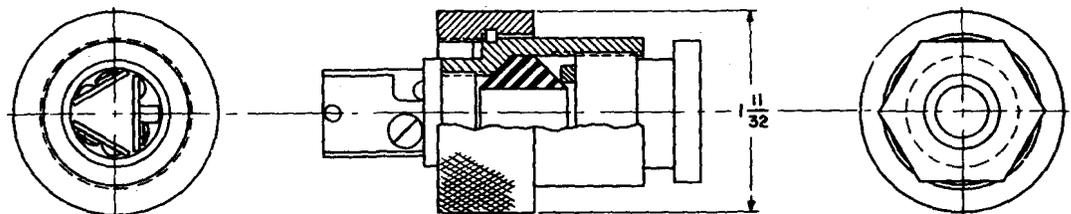
Used with the No. 451A jack in carrier toll systems.  
Used with the M4T and W2DM cords. Has a black finish.



No. 306A

KS8419 Plug

This is a polarized plug intended for use at both ends of a length of flexible cordage for connecting telephone sets which are installed on boats or auto trailers to the outlets of central office lines. It is used with either the KS8420 or KS8421 jacks. When this plug is used with Tirez cable per KS15141 it makes a waterproof connection. See BSP C-36.250.



KS8419

Note:

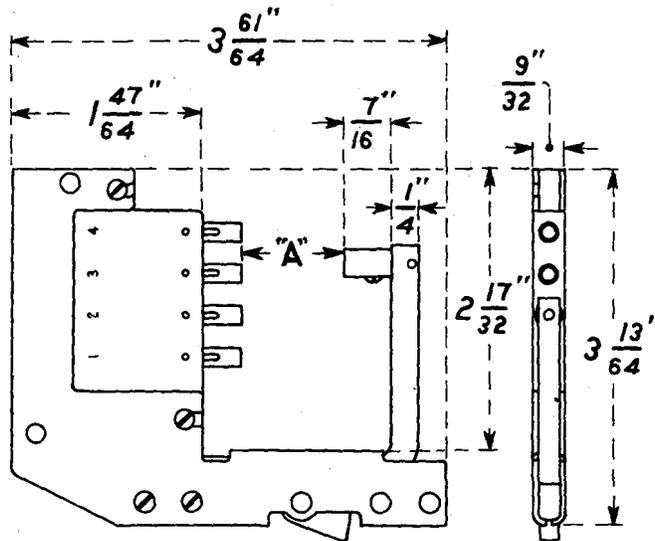
(P) Preferred Codes.

# MULTICONTACT PLUGS

## Four Contacts

### (P) No. 234 Plug

Intended for making connections with No. 36 or similar type terminal strips on intermediate distributing frames. Arranged to clamp on the punchings of the terminal strips by means of an adjustable sliding arm. Dimension "A" is variable to accommodate terminals not greater than 2-1/8 inches or less than 1-3/16 inches in length. For similar plug with five terminals see No. 235. Used with the following cords; P2R, P3R, P3S, P4L, P4R, and W4J.



No.234

### Note:

(P) Preferred Codes.

Four Contacts (Contd.)No. 240-type Plugs

Consist of conductor springs insulated from each other and arranged in pairs. The outer springs are equipped with flanges for centering the plug in its associated jack.

Code No.	Cords	No. of Contacts	Used with Jacks Nos.
(P) 240A	P3H, P3AA, W4AE, W4AY, W2A	4	328, 348, 349A, 350A, 356A, and 357A (Note A)
(P) 240B	P3A, P4K, P6B	6	384A and 395A
(P) 240C	P3A, P4K	8	Note A
(P) 240D	W10A	10	354
(P) 240F (Note B)		4	328, 348, 349A, 350A, 356A, and 357A (Note A)
(P) 240G (Note C)	P3H	6	384A and 395A (Note A)
(P) 240H (Note D)	P3H, W2CL,	4	Note A
(P) 240J		2	346
(P) 240K (Note E)	P4K	6	447A and 448A

Notes:

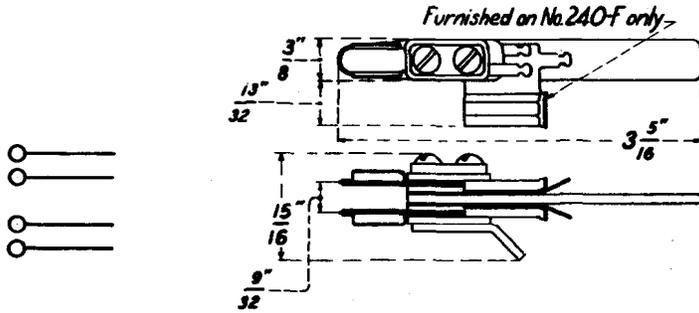
- A - Used with test jacks on Nos. 197- and 198-type switches having a corresponding number of springs.
  - B - Equipped with a socket at one side for a No. 2-type lamp.
  - C - Same as No. 240B except middle pair of springs are different.
  - D - Equipped with an adjustable spring for making contact with the sleeve wiper terminal of a local or a toll selector.
  - E - Equipped with a socket on each side for No. 2-type lamps.
- (P) Preferred Code.

X-75500

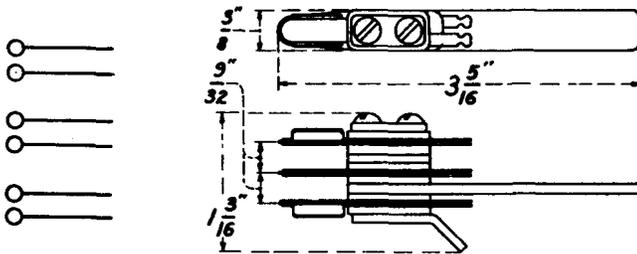
MULTICONTACT PLUGS

Four Contacts (Contd.)

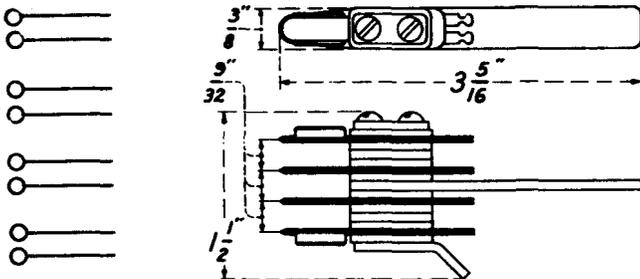
No. 240-type Plugs



Nos. 240A and F

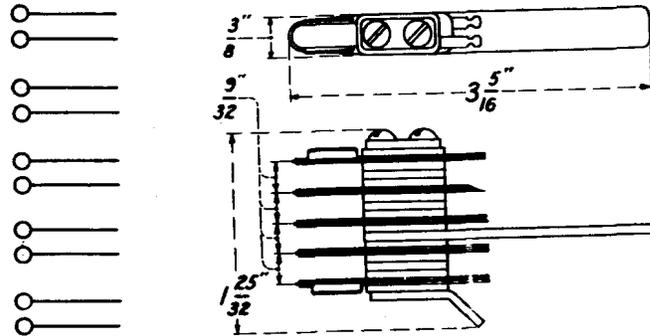


No. 240B

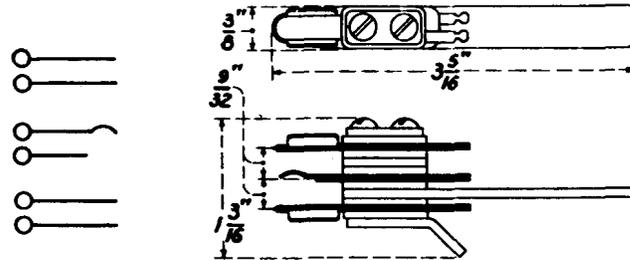


No. 240C

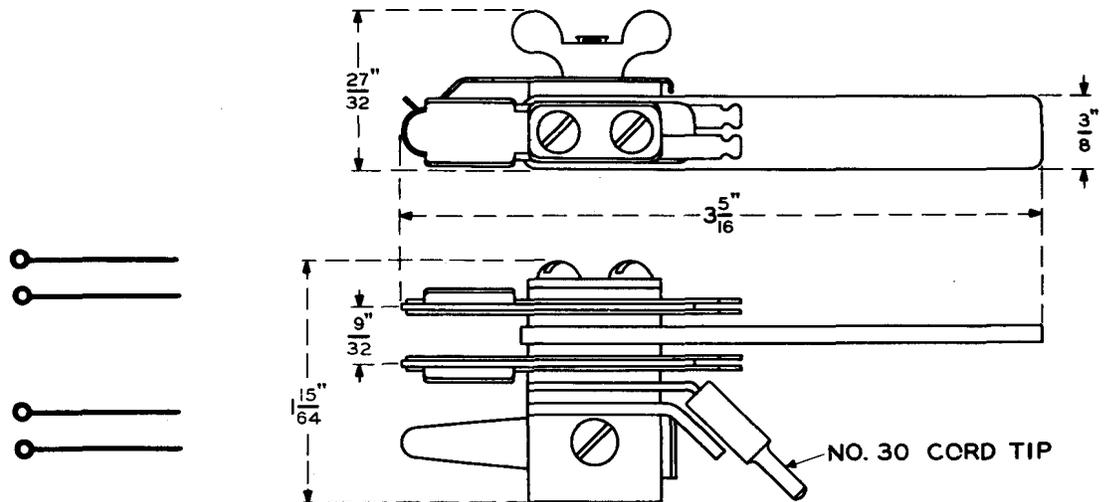
Four Contacts (Contd.)  
No. 240-type Plugs (Contd.)



No. 240D



No. 240G



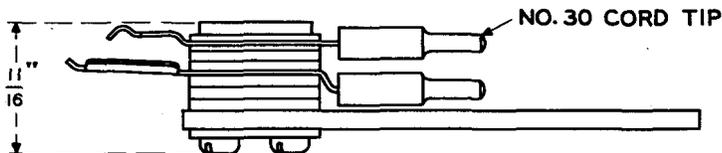
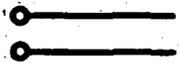
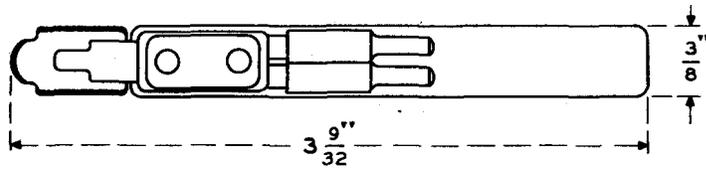
No. 240H

X-75500

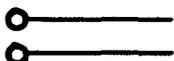
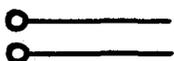
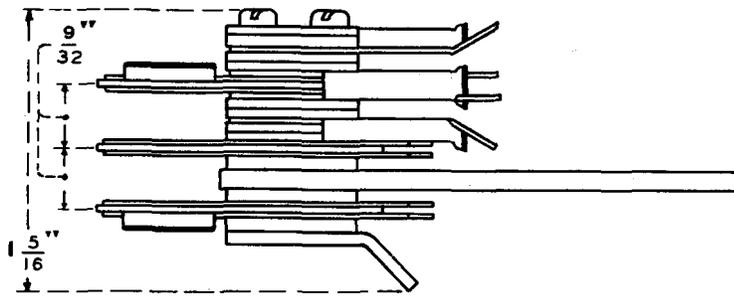
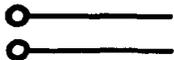
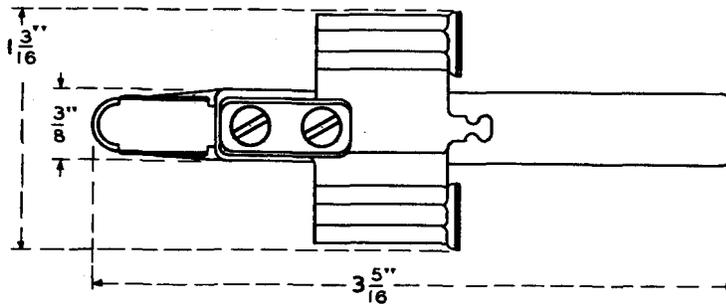
MULTICONTACT PLUGS

Four Contacts (Contd.)

No. 240-type Plugs (Contd.)



No. 240J

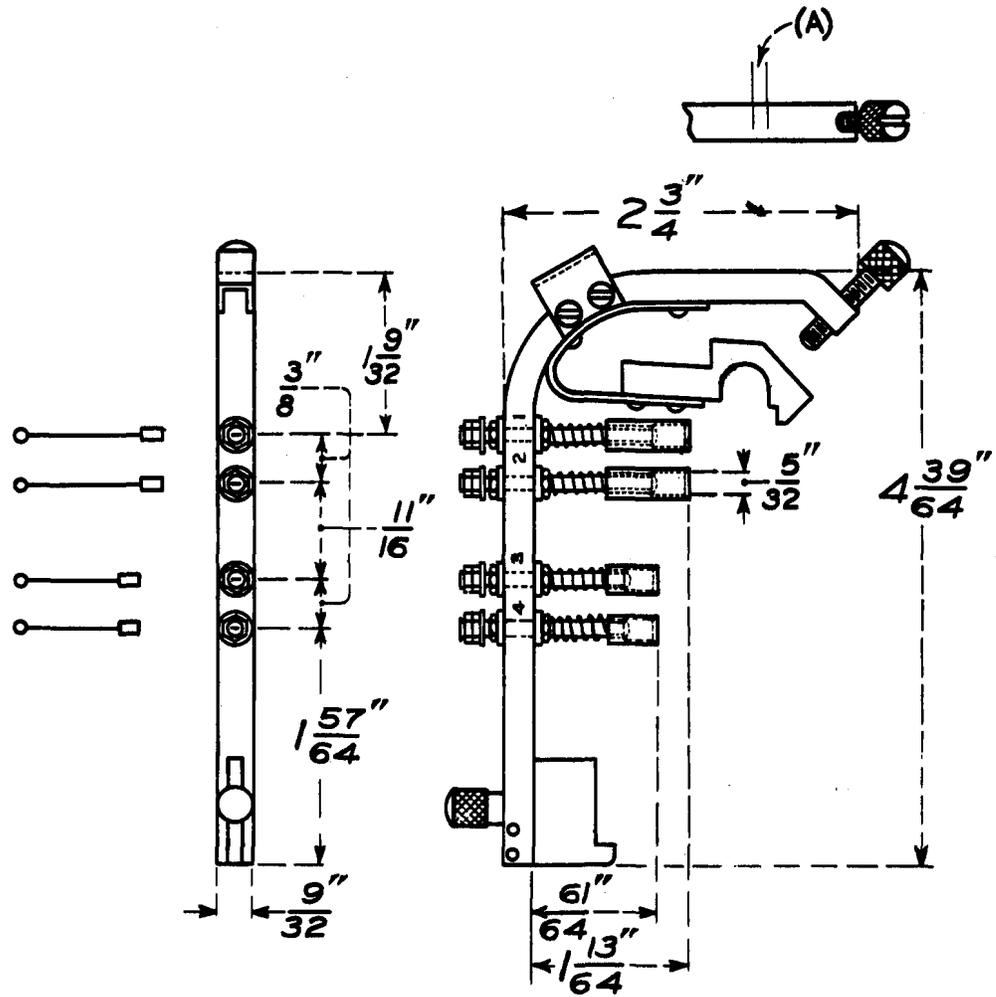


No. 240K

Four Contacts (Contd.)

No. 243 Plug

Used with No. 60-type terminal strip. Numbering at (A) to be specified in the order.



No. 243

X-75500

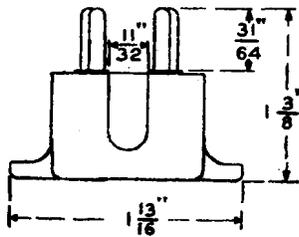
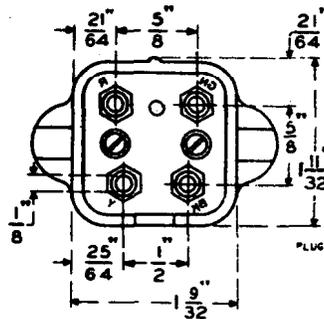
MULTICONTRACT PLUGS

Four Contacts (Contd)

(P) Nos. 283B-4 and -9 Plugs

Used with portable telephones at subscriber stations for 2-, 3-, or 4-wire service. Engages with the 404-, 493-, and 497-type jacks. Used with the following cords: D3AM, D3AY, D3BA, D3BB, D3BC, D3BD, D4W, D4AR, D4AS, D4AT, D4AU, L2W, M4R, and R2EE. The dash number indicates the color:

<u>Code No.</u>	<u>Color</u>
283B-4	Ivory
283B-9	Brown



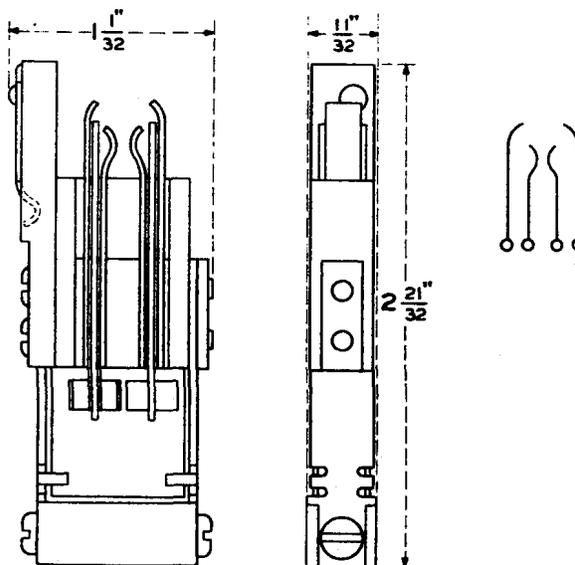
No. 283B

Note:

(P) Preferred Codes.

Four Contacts (Contd)(P) Nos. 301A and 301B Plugs

The 301A is a test plug. Contacts are insulated from each other. Provided with sleeve and spring for holding the plug in position in the jacks. Can be used on either the right or left side of the jack. Engages with the No. 444-type or No. 452-type jacks. The 301A Plug is used with W4AL and P2BK cords. The 301B is the same as the 301A except that the alternate terminals are strapped. It is primarily used in reversing the tip and ring sides of a line at the 444-type jack on main distributing frames.



Nos. 301A and 301B

Note:

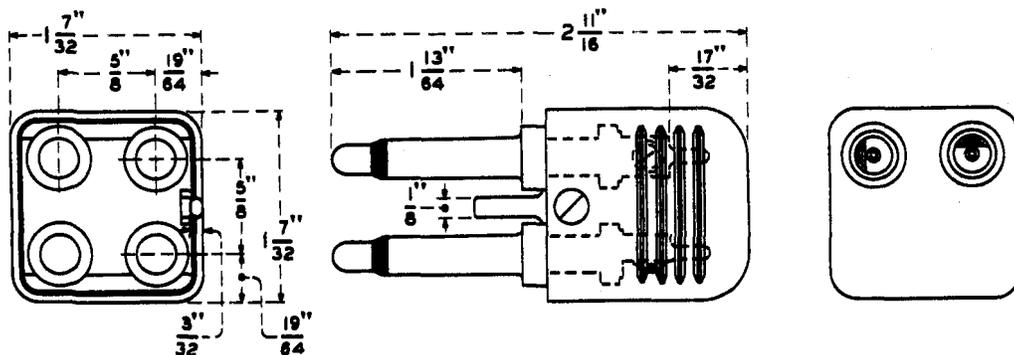
(P) Preferred Code.

# MULTICONTACT PLUGS

## Four Contacts (Contd.)

### (P) No. 312A Plug

For use in the 42A transmission measuring system. Not designed for a cord connection but is arranged for the No. 308A plug to engage through two holes in the rear of the shell. Used with two No. 410C jacks when mounted on 5/8-inch centers. Sleeves and cover are connected together and form a shield for the tip conductors. The tips of the two fingers at the guide pin side are strapped and the tips of the two fingers at the far side are strapped.



No. 312A

### (P) Nos. 315A and (P) 315B Plugs

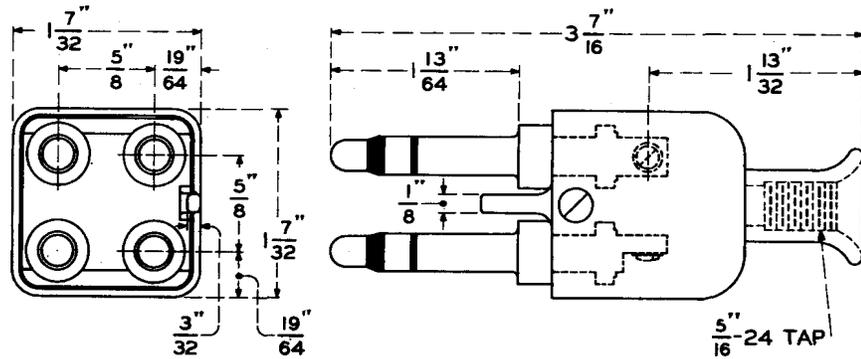
For use with the P4S and W3W cords in program transmission systems. Used with four No. 218A or similar type jacks, or two No. 410-type jacks mounted on 5/8-inch centers on No. 320D or similar type jack mounting. The sleeves and the cover are connected together and form a shield for the tip conductors. Each finger is equipped with a dead collar.

The No. 315B is the same as the No. 315A except the polarizing pin is omitted and the shell is grooved on one side to mark the proper way of inserting the plug in the jack.

#### Note:

(P) Preferred Code.

Four Contacts (Contd.)

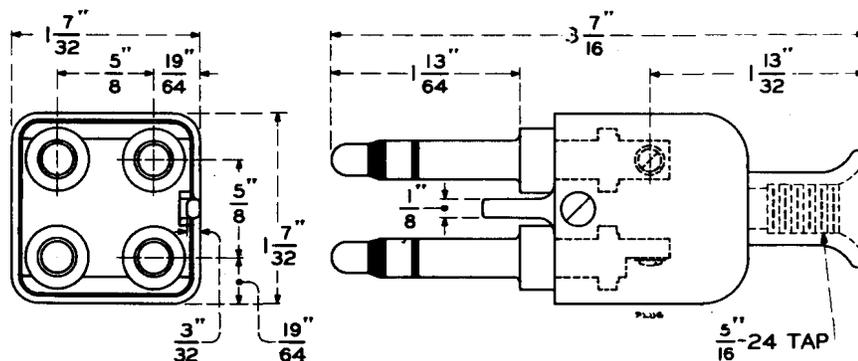


Nos. 315A and B

(P) No. 316A Plug

Used for patching purposes in the "K" carrier telephone line and amplifier switching equipment and the "J" carrier telephone line and repeater switching equipments. Used with two No. 410-type jacks mounted on  $\frac{5}{8}$ -inch centers. Sleeves and cover are connected together and form a shield for the tip conductors. A shield is also provided inside the shell between the two pairs of tip conductors. Used with M5F, P5D, and W4AS cords.

X-75500



No. 316A

Note:

(P) Preferred Code.

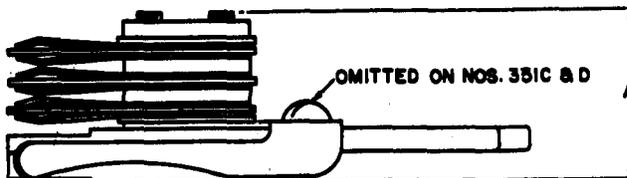
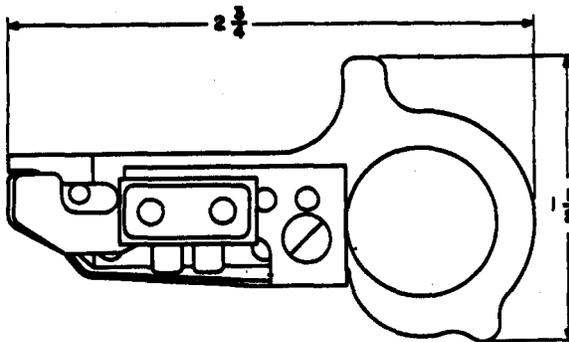
MULTICONTACT PLUGS

Four Contacts(Contd.)

Nos. 351A,B,E, and F Plugs

Equipped with contact spring pile-up, grounding spring, and guide. Intended for use on Nos. 304 to 308 and similar type crossbar switches in crossbar dial telephone systems, for use with service observing or line testing cords for making contact with contact multiples.

<u>Code No.</u>	<u>Dim.A</u>	<u>No. of Contact Springs</u>	<u>Makes Contact With</u>	<u>Note</u>	<u>Cords</u>
351A	27/32	6	4 contact multiples	-	3P27A, 3P27B, P3U, P3AC, P4Y, P4AA, W3AA
351B	31/32	8	5 contact multiples	-	P3U, P4AA, P5B
351E	45/64	4	3 contact multiples	A	P4AC
351F	17/32	2	inside contact multiple	-	- - -



Nos. 351A, B, E, & F

Note:

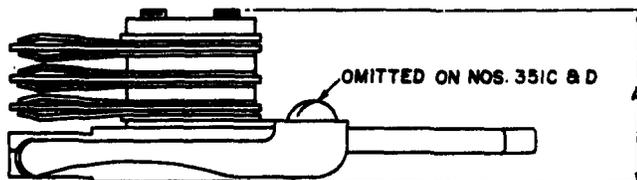
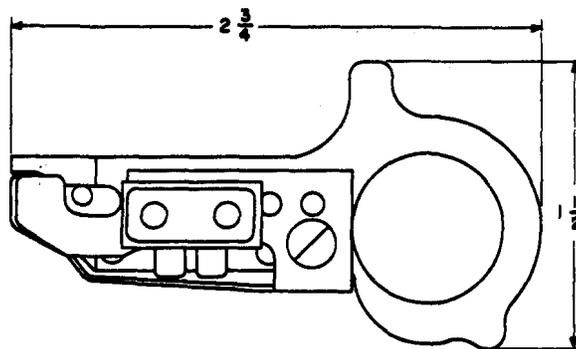
A. Also arranged for connecting a fourth cord lead to ground.

Four Contacts (Contd.)

Nos. 351C and D Plugs

Intended for use on Nos. 304 to 308 and similar type crossbar switches in crossbar dial telephone systems. These plugs are for use in grounding contact multiples.

<u>Code No.</u>	<u>Dimension "A"</u>	<u>Number of Contact Springs</u>
351C	17/32	2
351D	21/32	2



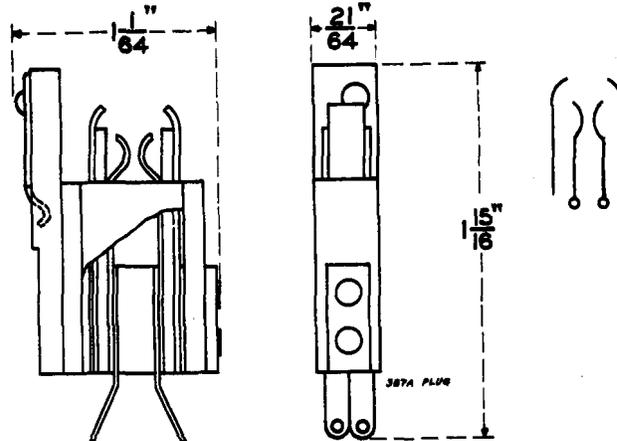
Nos. 351C and D

X-75500



Four Contacts (Contd)(P) No. 387A Plug

Test Plug. Provided with sleeve and spring for holding the plug in position in the jack. Can be used on either the right or the left side of the jack. Used with the No. 444-type jacks.



No. 387A Plug

X-75500

Note:

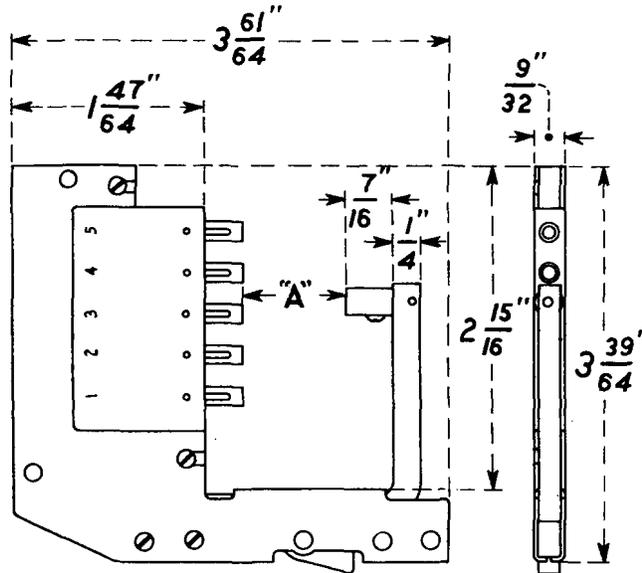
(P) Preferred Code.

## MULTICONTACT PLUGS

### Five Contacts

#### No. 235 Plug

Intended for making connection with No. 37 or similar type terminal strip on intermediate distributing frames. Arranged to clamp on the punchings of the terminal strips by means of an adjustable sliding arm. Dimension "A" may be varied to accommodate terminals not greater than 2-1/8 inch or less than 1-3/16 inch length. Used with the P4L and P4R cords. For similar plug with four terminals, see No. 234.



No. 235

### Six Contacts

#### Nos. 24OB, G, and K Plugs

For information, see pages 6, 7, and 8.

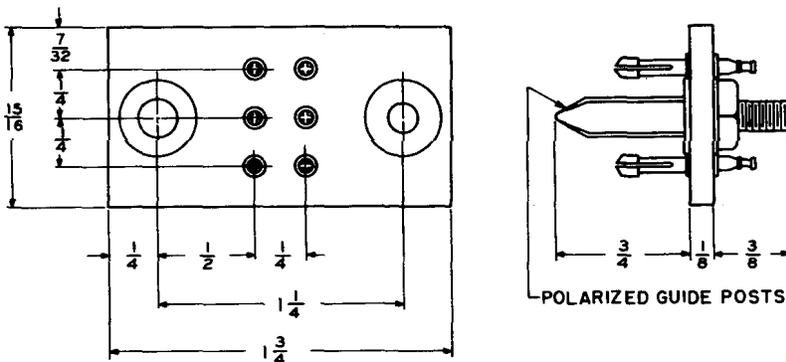
#### No. 351A Plug

For information, see page 14.

Six Contacts (Contd.)

KS-14297 Connector

The KS-14297 connector is used with the KS-14298 connector in the TD2 Radio Relay System. It is arranged for panel mounting and has six silver-plated beryllium copper terminals rated at 5 amperes and two polarized guide pins. Maximum panel thickness is 15/64-inches.

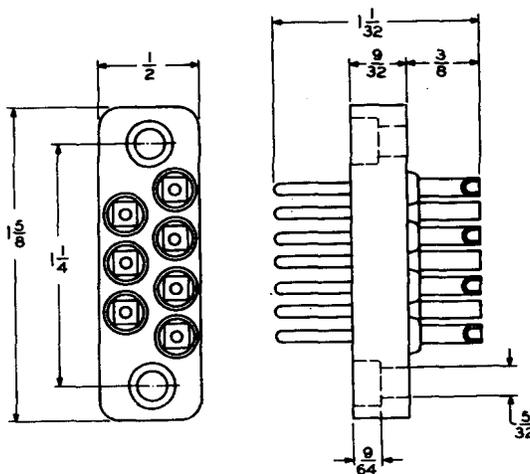


KS-14297

X-75500

KS-14527, L1 Connector

This connector consists of a molded block of insulating material with seven gold-plated 0.064-inch diameter floating terminals. It is used with the KS-14528, L1 connector.



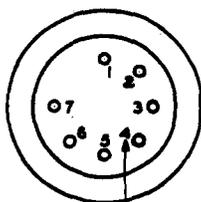
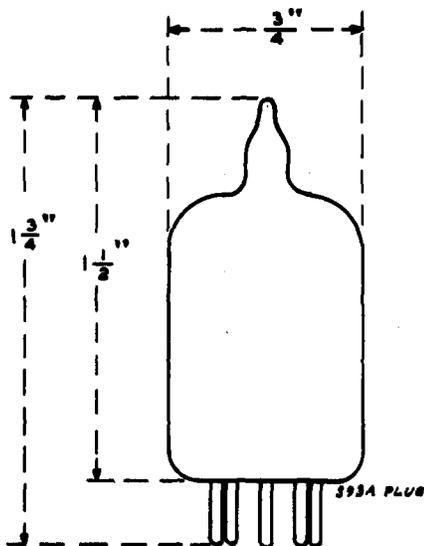
KS-14527, L1

# MULTICONTACT PLUGS

## Seven Contacts

### (P) No. 393A Plug

Consists essentially of a glass bulb fused to an E7-1 small-button 7-pin vacuum tube base. Pins 3 and 4 are strapped internally. There are no internal connections to pins 1, 2, 5, 6, and 7. Intended for use as a shorting plug to be used instead of the No. 408A vacuum tube, when the tube is not required, in the ON junction equipment



NUMBERS ARE FOR  
REFERENCE ONLY

### No. 393A Plug

#### Note:

(P) Preferred Code.

Eight Contacts

No. 240C Plug

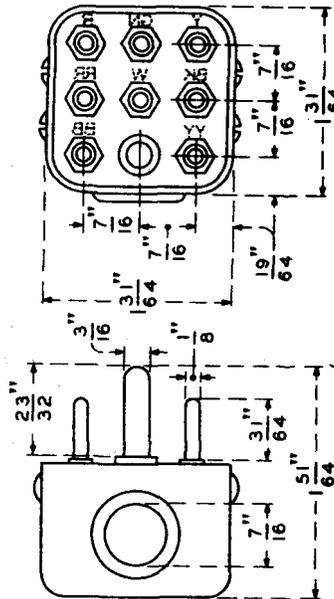
For information see page 6.

(P) Nos. 274A-4 and -9 Plugs

Used with portable telephones at subscriber stations. For use with the No. 391- and No. 392-type jacks. The dash number indicates the color. Used with D&J, D&P, and M&C cords.

<u>Code No.</u>	<u>Color</u>
274A-4	Ivory
274A-9	Brown

X-75500



Nos. 274A-4, and -9

Note:

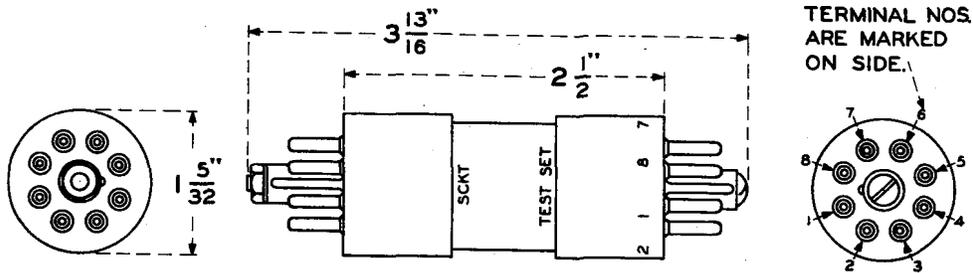
(P) Preferred Code.

# MULTICONTACT PLUGS

## Eight Contacts (Contd.)

### (P) No. 332A Plug

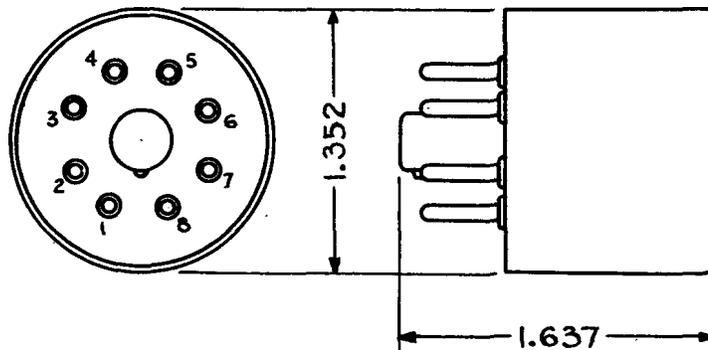
Consists of a double-ended plug having each pin strapped to the corresponding pin at the opposite end of the plug. For insertion in the KS-7862 type 39-1-E vacuum tube socket. Used with the No. 360 tool connected to a No. 35-type test set for testing No. 239-type relays in PBX dial long line circuits.



No. 332A Plug

### (P) No. 404A Plug

Consists of a medium shell octal type electron tube base having nickel-plated pins. Pins numbered 3 and 5 are strapped together. Intended for use as a shorting plug in Nos. 804A and 804B networks of the P1 carrier system.



No. 404A Plug

### Note:

(P) Preferred Codes.

Eight Contacts (Contd.)Nos. 344A, (P) 344B, and (P) 344C Plugs

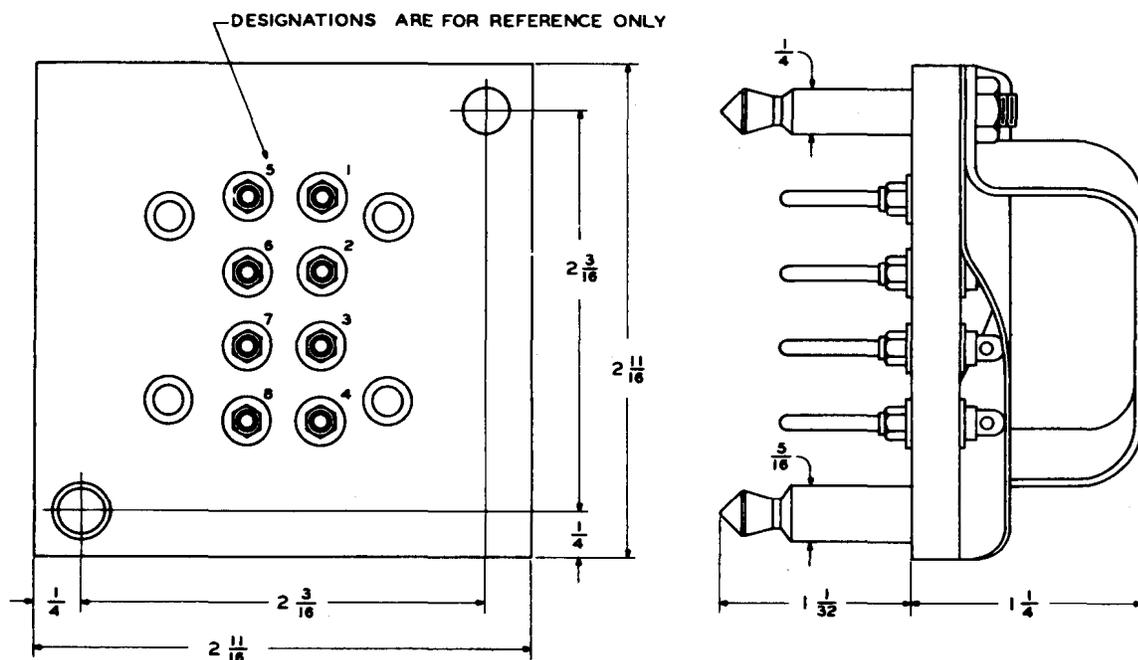
Plug for use in the 90A2 loop repeater, associated with the No. 1 service board to replace one telegraph relay when the repeater is used for one-way operation only. The Nos. 344B and C plugs are intended for use in the J70047B channel terminal panel to replace the break relay.

344A: Terminals 1 and 4 are strapped; terminals 3 and 6 are strapped.

344B: The following terminals are strapped; 1 and 4; 2 and 7;  
3 and 6.

344C: The following terminals are strapped; 1 and 4; 2 and 3;  
6 and 7.

X-75500



Nos. 344A, B, and C

No. 351B Plug

For information see page 14.

Note:

(P) Preferred Code.

# MULTICONTACT PLUGS

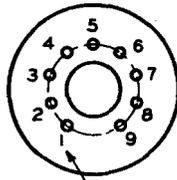
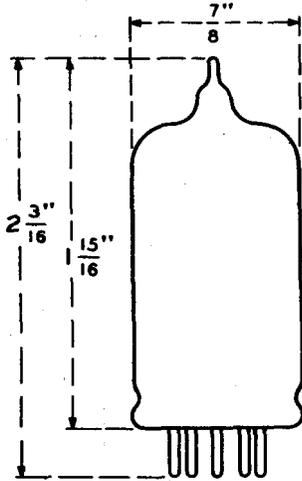
## Nine Contacts

### No. 377A Plug

Consists essentially of a glass bulb fused to nine-pin vacuum tube base. The pins are strapped internally as follows:

- 1 to 5
- 3 to 4 to 6
- 2)
- 7) no connections
- 8)
- 9)

Intended for use as a shorting plug to be used instead of the 427A vacuum tube when the tube is not required.

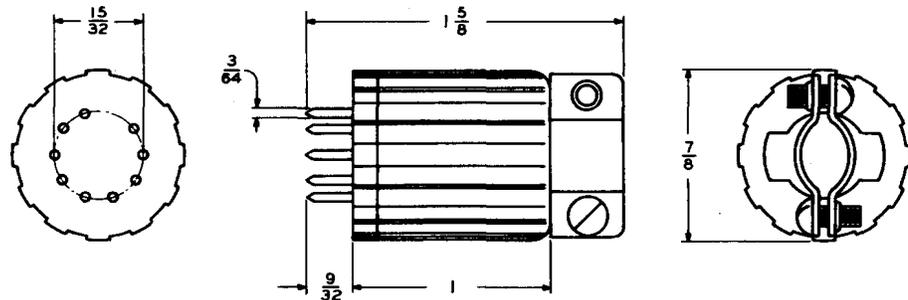


NUMBERS ARE FOR  
REFERENCE ONLY

No. 377A

Nine Contacts (Contd.)KS-14362 Plug

This is a test plug equipped with nine pins, 0.040-inch diameter silver-plated, intended for use with miniature vacuum tube sockets. Equipped with cable clamp capable of accommodating cables up to 1/2-inch diameter.



KS-14362

X-75500

Ten ContactsNo. 240D Plug

For information see page 7.



Eleven Contacts

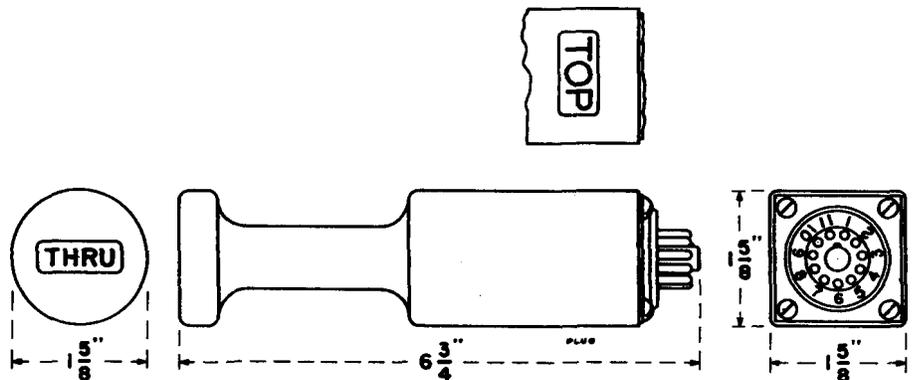
No. 360-type Plug

These each consist of an eleven-pin plug mounted on a handle. Each has the designation "Top" on one side of the handle.

Code No.	Cord Hole in End of Handle	Marking on End of Handle	Resistances Between		Used
			Ohms	Pins	
(P) 360A	3/8 dia.	None	--	--	Testing E2 Repeater
(P) 360B*	None	"THRU"	390	8,9	J68649 V2 Telephone Repeater
(P) 360C	None	"TERM"	390	8,9	J68649 V2 Telephone Repeater
			600	1,2	
			600	3,4	
(P) 360D	3/8 dia.	None	390	8,9	Part of 4P22A cord in J68649 V2 Telephone Repeater Used with P4AE cord

\* Has pin 1 strapped to 3, and pin 2 strapped to 4.

X-75500



No. 360B. Also General Design and Dimensions of No. 360 Type.

Nos. 360A, B, C, and D

Note:

(P) Preferred Code.

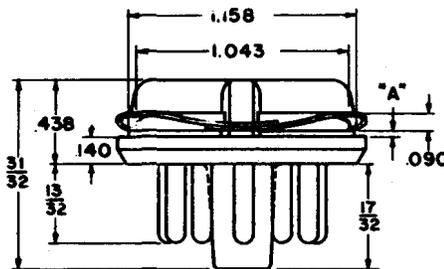
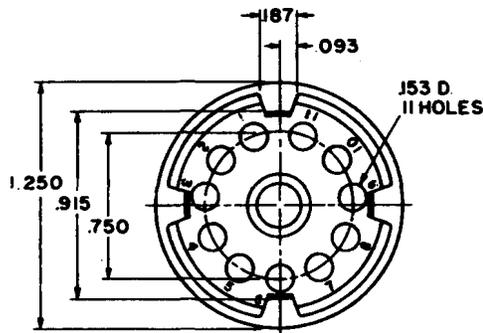
MULTICONTACT PLUGS

Eleven Contacts (Contd.)

KS-13915 Plug

The KS-13915,L1 plug is intended for use as a component of the No. 360A plug. The KS-13915,L3 plug is intended for use with the KS-14316 socket. The KS-1395,L2 and L4 plugs are intended for general use. Any of these plugs may be used with the KS-13930 socket. These plugs consist of a round molded body equipped with eleven solder-coated and lined tubular pins, 0.093-inch outside diameter with an 0.045-inch hole in the end.

<u>List No.</u>	<u>Intended to mount on plates or chassis</u>
L1	0.025- to 0.040-inch thick
L2	0.041- to 0.062-inch thick
L3	0.080- to 0.102-inch thick
L4	0.063- to 0.078-inch thick



LIST NO	DIM "A"
L1	.025
L2	.040
L3	.079
L4	.062

KS-13915

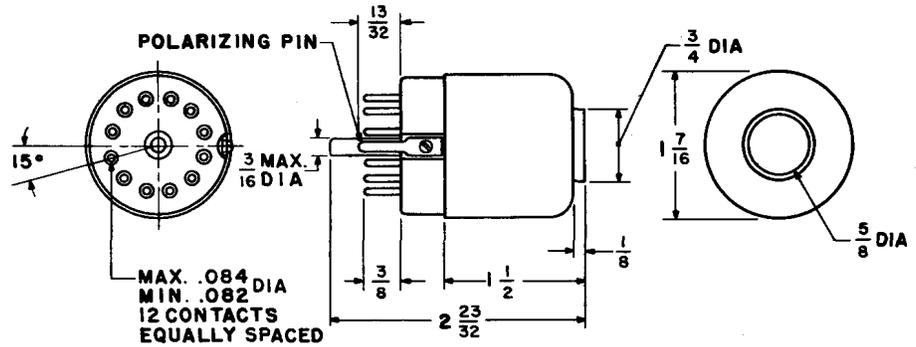




Twelve Contacts

(P) KS-14769 Plug, Connector

The KS-14769 plug, connector will mate with the KS-3895 plug, receptacle and is intended for use with the M8E, M11D, M12E, M12F, and M12G cords. It is finished in black.



KS-14769

X-75500

Note:

(P) Preferred Code.

MULTICONTACT PLUGS

Fourteen Contacts  
(to 75 Contacts)

KS16370 Connectors

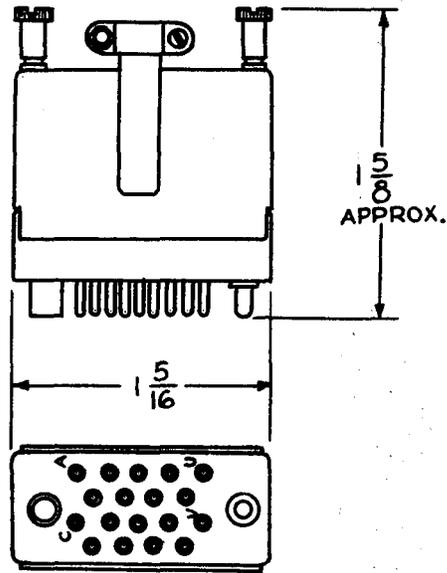
These connectors consist of a molded block of insulating material equipped with gold-plated phosphor bronze free floating male contacts. They are multi-contact (See Table A) miniature type connectors polarized by means of guide pins and guide pin sockets. Hoods, having screwlock mechanisms for clamping purposes and cable clamps at top or side, are supplied with List Numbers in accordance with Table A.

These connectors, primarily intended for use in the Sage System, are designed to withstand a maximum of 400 insertions. They will mate with KS16409 connectors.

<u>List No.</u>	<u>No. of Contacts</u>	<u>Hoods</u>	<u>Screw Lock</u>	<u>Cable Clamp</u>	<u>Mtg. Plate Thickness</u>
1	14	---	---	---	1/8
2	14	Yes	No	Top	---
3	18	---	---	---	1/8
4	18	---	---	---	1/8
5	18	Yes	Yes	Top	---
6	20	---	---	---	1/8
7	20	---	---	---	1/8
8	20	Yes	Yes	Top	---
20	20	Yes	Yes	Side	---
9	21	---	---	---	1/8
10	34	---	---	---	1/8
11	50	Yes	No	Side	---
12	50	Yes	Yes	Top	---
13	50	Yes	Yes	Side	---
14	50	---	---	---	3/32
15	75	---	---	---	1/8
16	75	Yes	No	Side	---
17	75	Yes	Yes	Top	---
18	75	Yes	Yes	Top	---
19	75	---	---	---	3/32

TABLE A

KS16370 Connectors  
(Contd.)



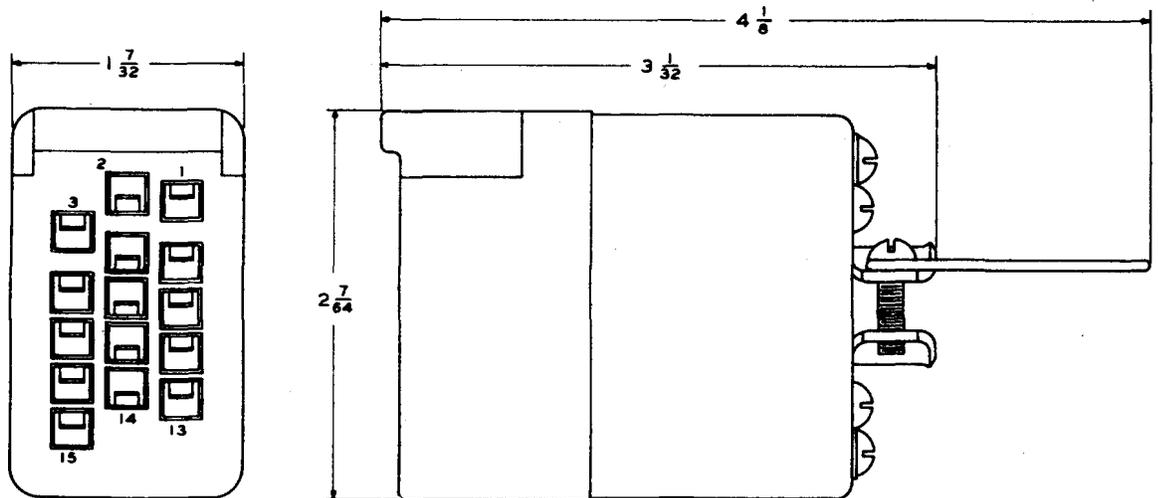
General Arrangement of  
KS16370 Connectors

KS16370, L5 Illustrated



Fifteen Contacts (Contd.)(P) No. 348A Plug

Polarized plug. Used with the No. 204-type connector in the cord, telephone, and dial circuit in the Nos. 555 and 556A PBX switchboards. Has cord clamp.



No. 348A

X-75500

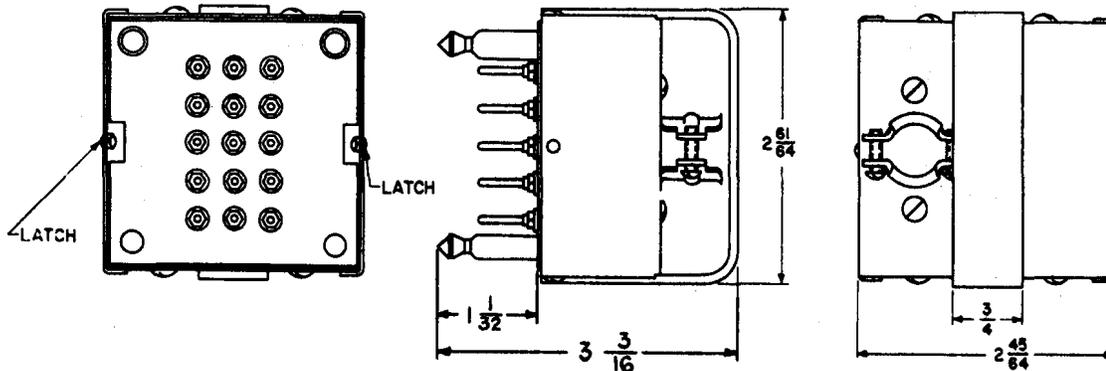
Note:  
(P) Preferred Code.

# MULTICONTACT PLUGS

## Fifteen Contacts (Contd.)

### (P) No. 385A Plug

This plug consists of a base having fifteen terminals and four guide posts so that it may be mounted in place of a 209-type relay on an 18-type connecting block. It has a combination handle and dust-proof cover. The cover is provided with a cable clamp, and also with two catches to provide means for locking the 119A adapter to this plug when used with 215-type relays.



No. 385A

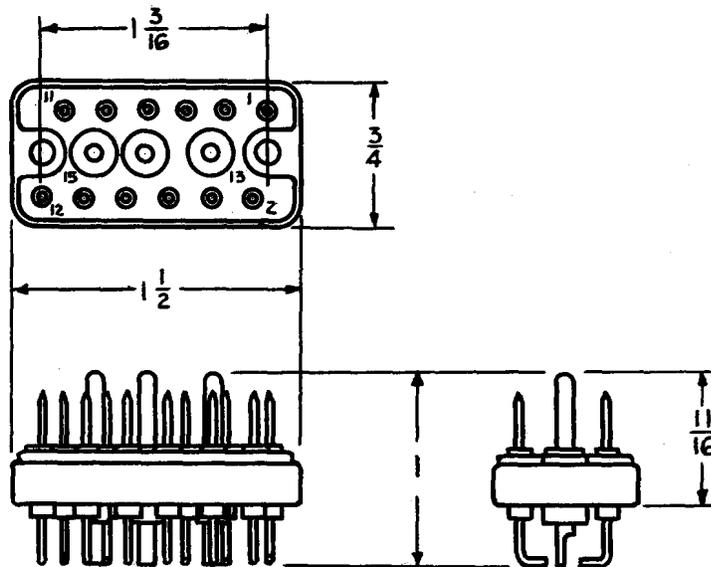
### Note:

(P) Preferred Code.

## Fifteen Contacts (Contd.)

KS13594 Connector

This connector is a miniature connector consisting of a molded block of thermosetting plastic with fifteen gold-plated contacts. It is primarily intended for use with the KS13595, KS13596, or KS13598 connectors.



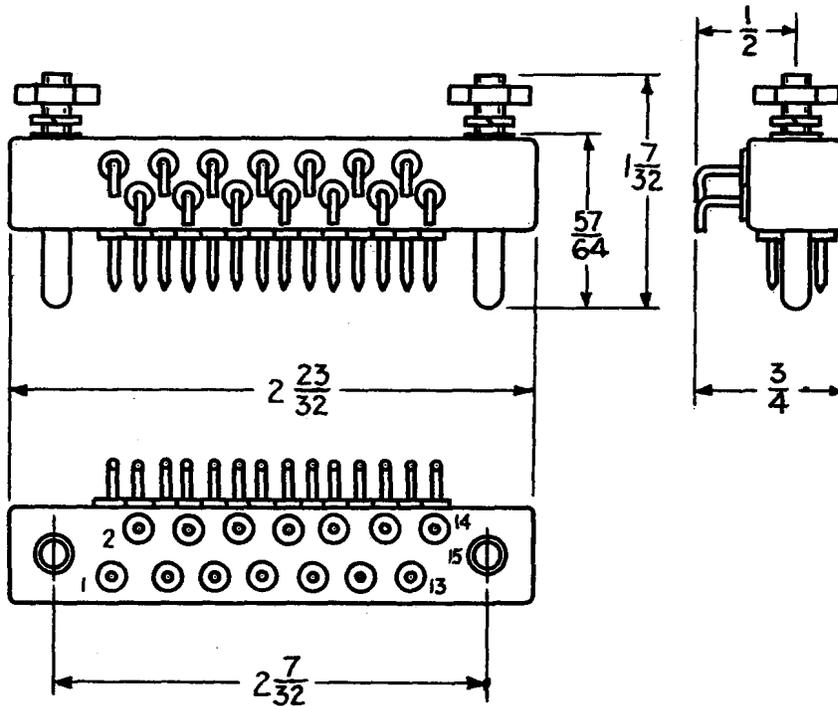
KS13594

# MULTICONTACT PLUGS

## Fifteen Contacts (Contd.)

### KS13592 Connector

This connector is a miniature connector consisting of a molded block of thermosetting plastic with fifteen gold-plated contacts. It is primarily intended for use with the KS13593 connector.

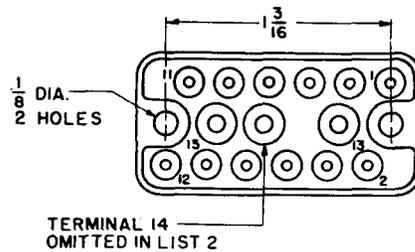
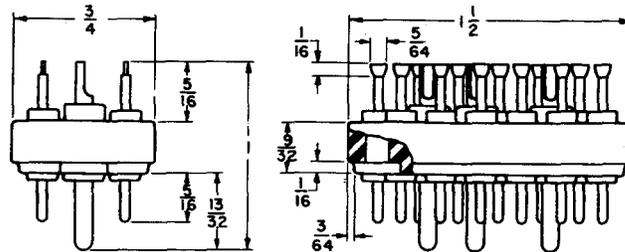


KS13592

Fifteen Contacts (Contd.)

KS-14524 Connector

These connectors are intended for use with the KS-14525 connector in reversible filters for type OB carrier telephone systems. KS-14524,L1 is a miniature connector consisting of a molded block of thermosetting plastic with fifteen gold-plated contacts. KS-14524,L2 is the same as list 1 except that terminal fourteen is omitted.



KS-14524

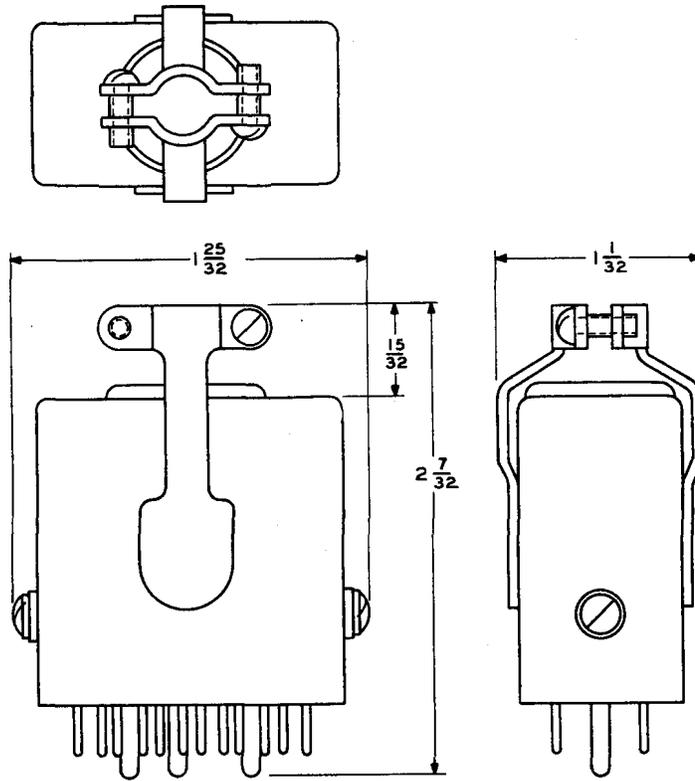
X-75500

MULTICONTACT PLUGS

Fifteen Contacts (Contd)

KS-14596 Connector (Male)

The KS-14596 connector (Male) is intended primarily for use with the W8D and W16B cords in the TD2 radio relay system. It is a miniature male connector consisting of a molded block of low-loss phenol plastic provided with gold-plated pin contacts. This assembly is mounted in an aluminum housing which is provided with a cable bracket.

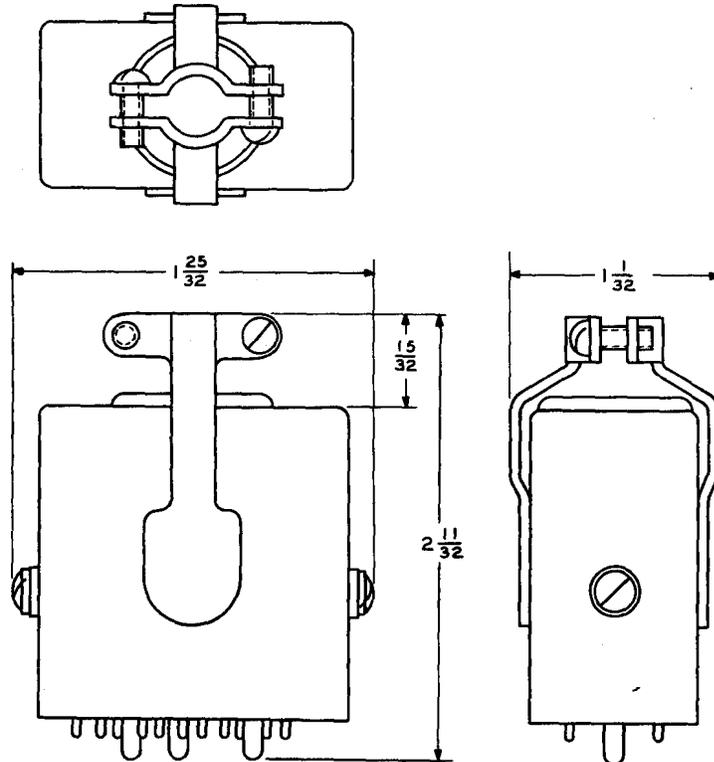


KS-14596

## Fifteen Contacts (Contd)

KS-14676 Connector (Male)

The KS-14676 connector (male) is intended for use with the O carrier group receiving unit J98705G on the ON carrier system. It is a miniature male connector consisting of a molded block with gold-plated pin contacts. This assembly is mounted in an aluminum housing which is provided with a cable clamp.



KS-14676

X-75500

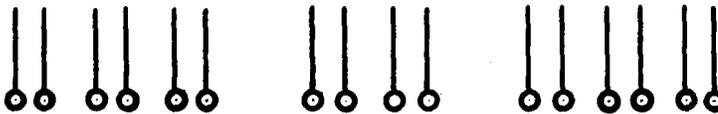
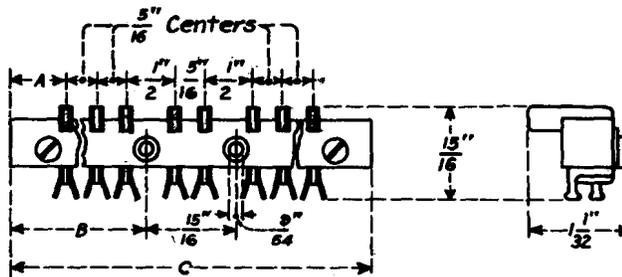
MULTICONTACT PLUGS

Sixteen Contacts

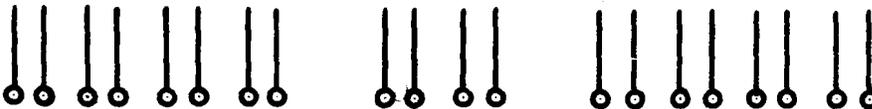
No. 242-type Plug

Consists of a wooden strip on which are mounted several pairs of contacts insulated from each other. Intended to mount on rear of No. 931-, 933-, 935-, and 985-type mounting plates. For similar type plug, see No. 333A plug. Page 45.

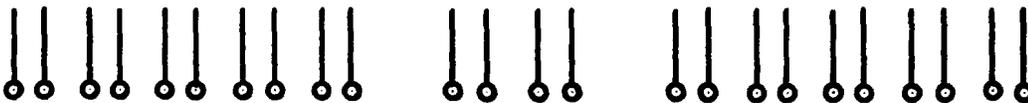
Code No.	A	Dimensions		Contacts	Used with Jacks
		B	C		
(P) 242A	19/32	1-13/32	3-3/4	16	344
(P) 242B	15/32	1-19/32	4-1/8	20	345
(P) 242C	1/4	1-11/16	4-5/16	24	346



No. 242A



No. 242B



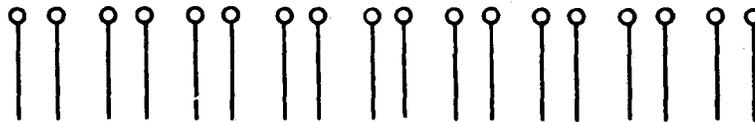
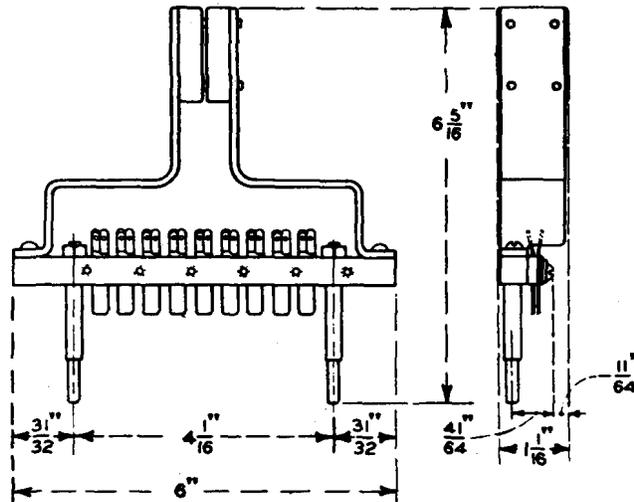
No. 242C

Note:

(P) Preferred Code.

Eighteen ContactsNo. 180 Plug

Used in dial equipment of the "B" sender selector frame for patching purposes. Contacts are insulated from each other and are arranged in pairs. For use with the No. 271 jack in either of two positions. Handle of plug serves as cable clamp. Provided with two guide posts.



No. 180

KS16370 Connector, L3, 4, and 5

For information, see Page 25B

Twenty ContactsNo. 242B Plug

For information, see Page 30

KS16370 Connector, L6, 7, 8, and 20

For information, see Page 25B

MULTICONTRACT PLUGS

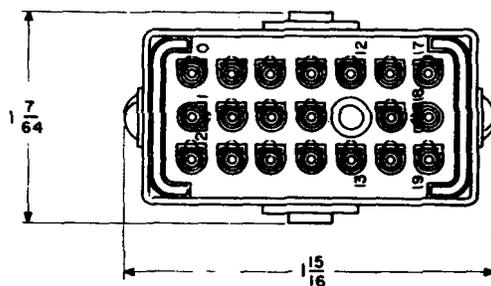
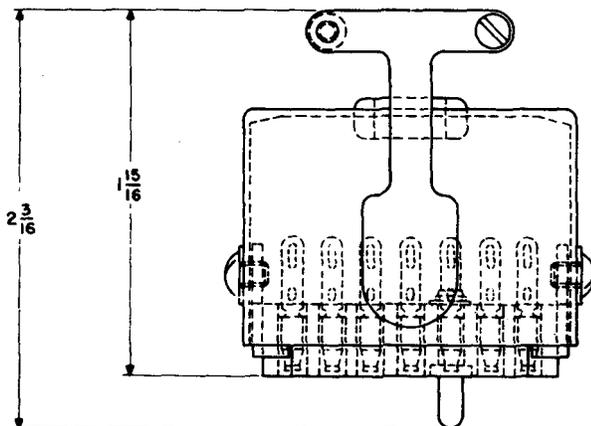
Twenty Contacts (Contd.)

The table below shows which of the following twenty contact plugs, etc. have male contacts and which have female contacts. Any item listed in the list having male contacts will engage with any item having female contacts.

<u>Male</u>	<u>Female</u>
KS13876 Connector	KS13875 Plug
KS13895 Plug	KS14173 Jack
KS14159 Connector	KS14460, L1 Plug
KS14160 Connector	KS14460, L2 Plug
KS14288 Plug	KS14482 Plug
KS14380 Connector	
KS14461, L1 Plug	
KS14461, L2 Plug	
KS14958 Plug	
KS16081, L1 Plug	
KS16081, L2 Plug	

KS13875 Plug

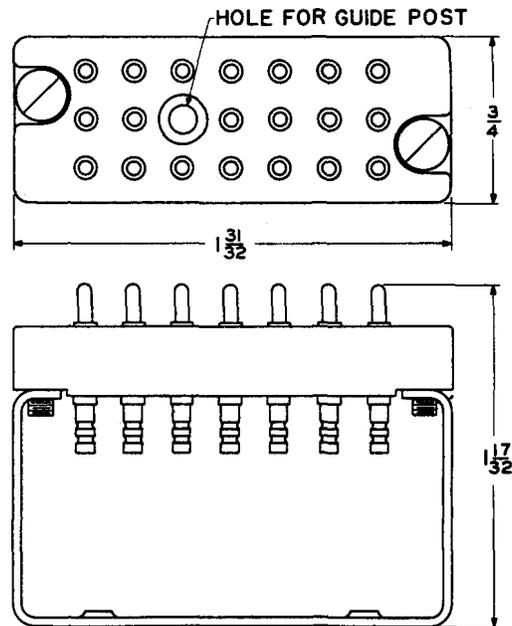
This plug consists of a molded block with twenty gold-plated female terminals, assembled in a cover. This plug is intended primarily for use with the KS13876 connector in the KS13834 perforator in the No. 5 crossbar system or with the KS14159 connector. Used with the following cords; P14A, P20A, W4BA, W13A, W18B, W20A, W20C, W20D, and W20E.



KS13875

Twenty Contacts (Contd.)KS-13876 Connector

The KS-13876 connector is used with the KS-13875 plug on the KS-13834 perforator in the No. 5 crossbar system. It has twenty gold-plated 0.064-inch diameter terminals.



KS-13876

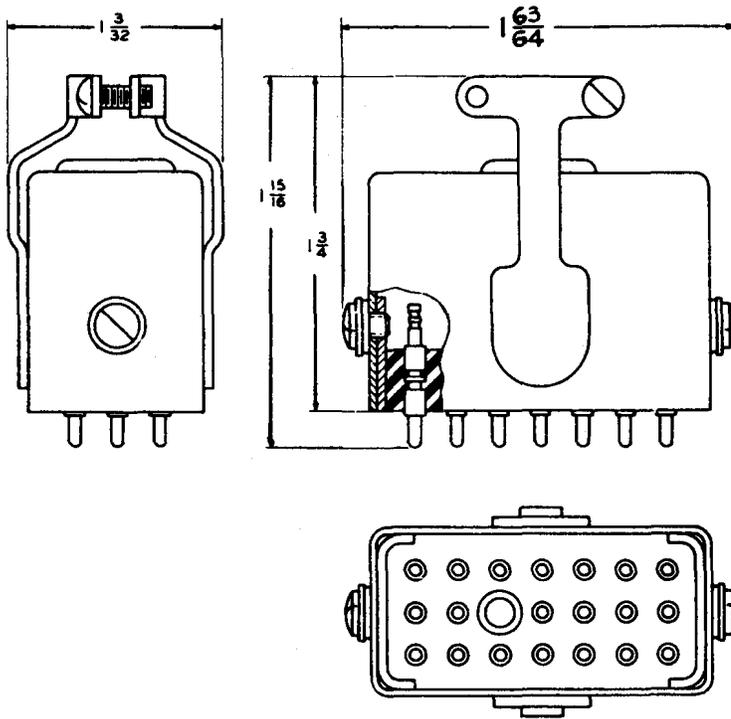
X-75500

# MULTICONTACT PLUGS

## Twenty Contacts (Contd.)

### KS13895 Plug

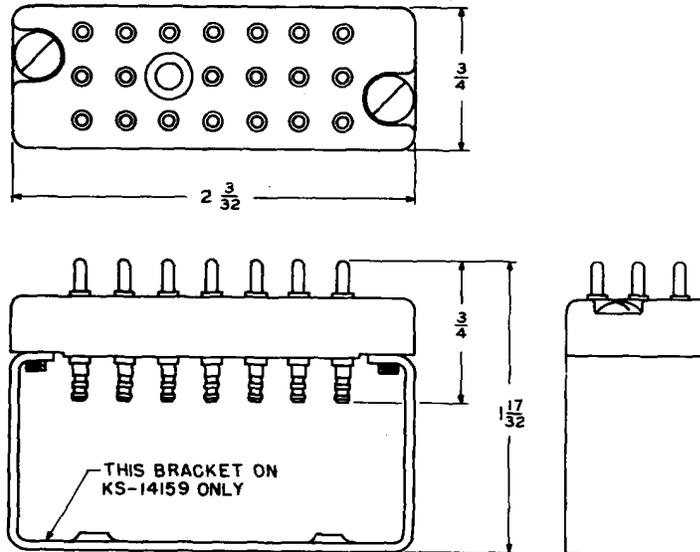
This plug consists of a molded block equipped with twenty gold-plated 0.064 inch diameter terminals, assembled in a cover. It is intended primarily for use with the P20A cord in the No. 5 crossbar system. Used with the following cords; W8E, W12B, W13A, W18B, W20A, W20C, and W20D.



KS13895

Twenty Contacts (Contd.)KS-14159 Connector

The KS-14159 connector is used with the KS-13875 plug on the KS-13834 perforator in the No. 5 crossbar system. It has twenty gold-plated 0.064-inch diameter terminals.



KS-14159

KS-14160 Connector

The KS-14160 connector is the same as the KS-14159 connector except it is not equipped with a mounting bracket.

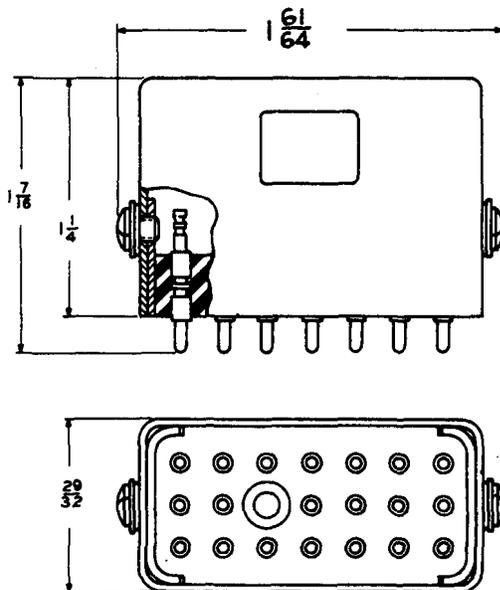
X-75500

# MULTICONTACT PLUGS

## Twenty Contacts (Contd.)

### KS14288 Plug

This plug is intended for use at terminal and repeater locations in making connections between the N1 equipment and the cable pairs in the N1 carrier telephone systems. These plugs have twenty gold-plated 0.064 inch diameter terminals and are equipped with a cover. List 2 plug differs from List 1 in that it has a lug riveted to one of the brackets for grounding purposes.

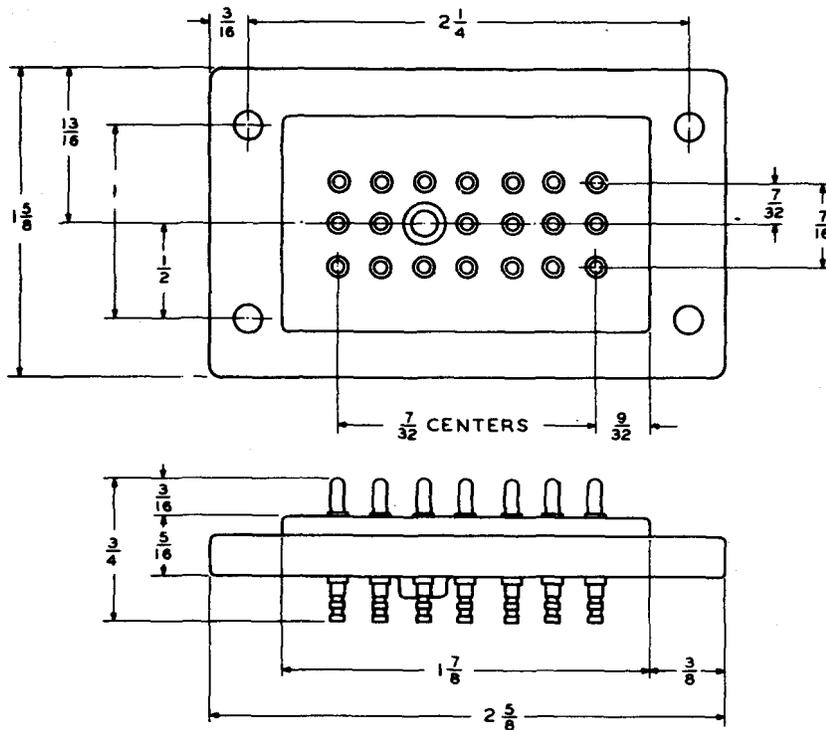


KS14288

Twenty Contacts (Contd.)

KS-14380 Connector

The KS-14380 connector has twenty gold-plated 0.064-inch diameter terminals. It is arranged for panel mounting behind a gasket to permit pressure sealing.



X-75500

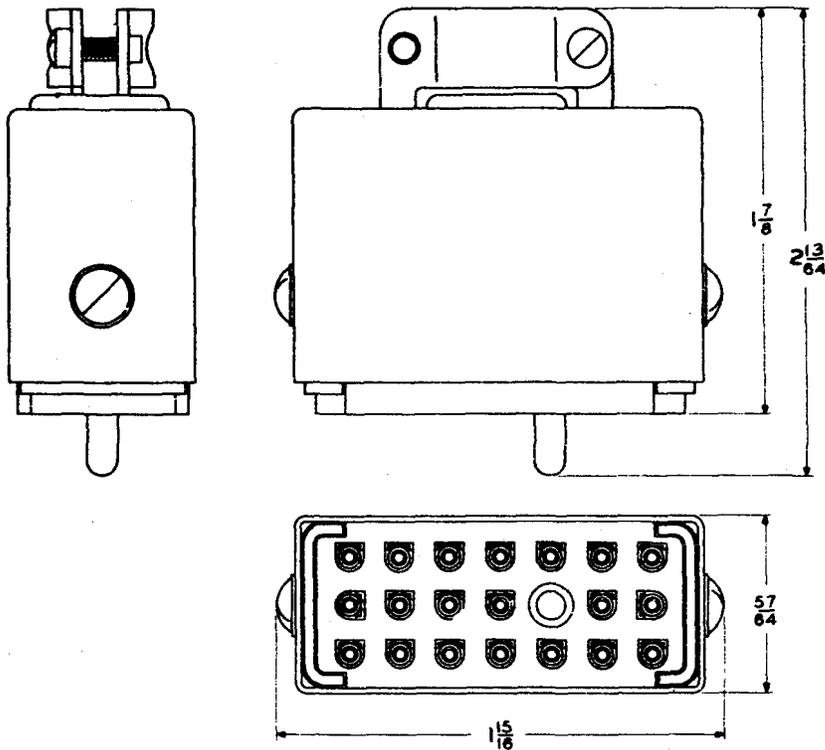
KS-14380

MULTICONTACT PLUGS

Twenty Contacts (Contd)

KS-14460 Plug

This plug consists of a molded block of insulating material having twenty gold-plated female terminals assembled in a cover. KS-14460, L1 is intended to be used with the P20 cord. KS-14460, L2 plug is intended to be used as a part of the L3 carrier power test set. The L1 has a 1/2-inch hole in the cover for the cable. It is used with the P19A cord. The L2 plug is equipped with a 5/16-inch diameter soft rubber grommet in the top of the cover. It is used with the P20C, P20D, and W8E cords.

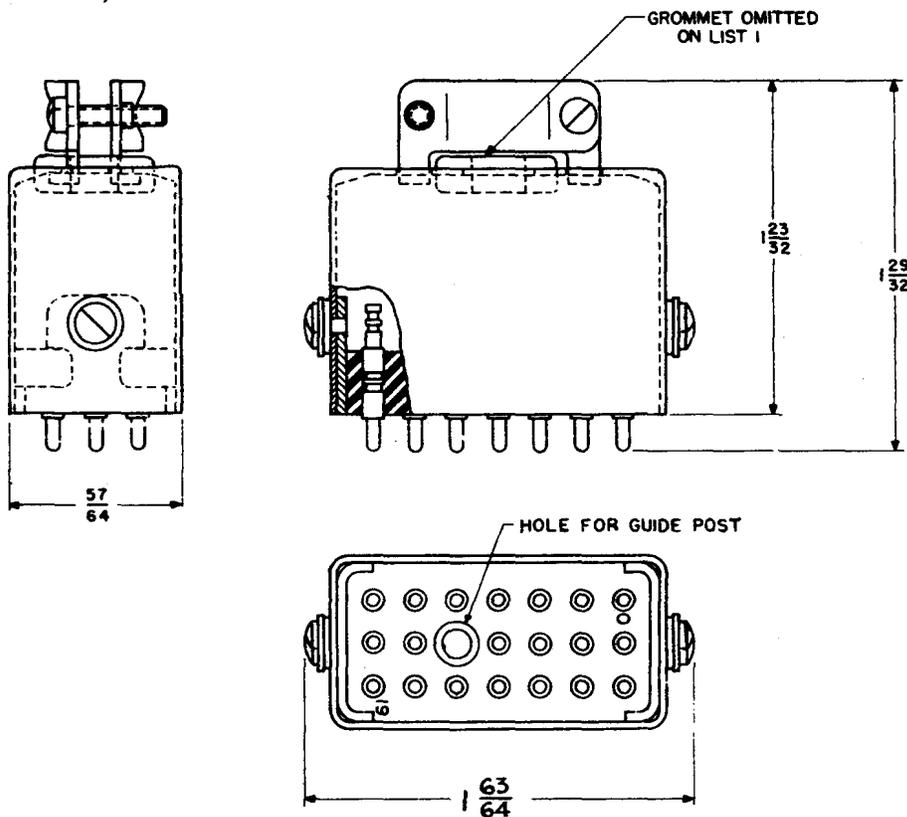


KS-14460

## Twenty Contacts (Contd.)

KS14461 Plug

This plug consists of a molded block having twenty gold-plated 0.064 inch diameter terminals. KS14461, L1 plug is intended for use with the P19A, P20C, P20D, and P20E cords. KS14461, L2 plug is intended for use as a part of the W10B cord used with the L3 carrier power test set.



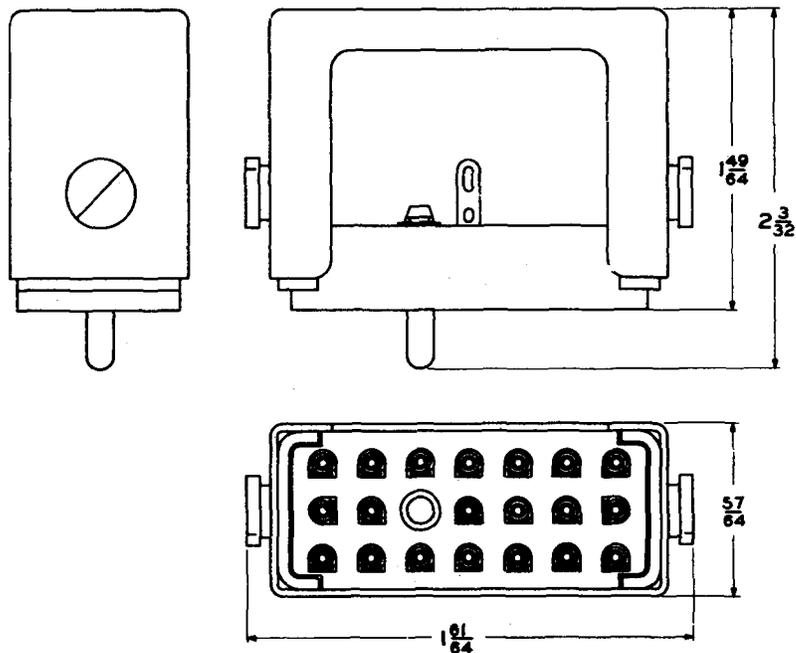
KS14461

# MULTICONTACT PLUGS

## Twenty Contacts (Contd,)

### KS14482 Plug

This plug consists of a molded block with twenty gold-plated female terminals assembled in a cover which is open at one side. This plug is intended for use with the transmission panel on the L3 carrier telephone system.

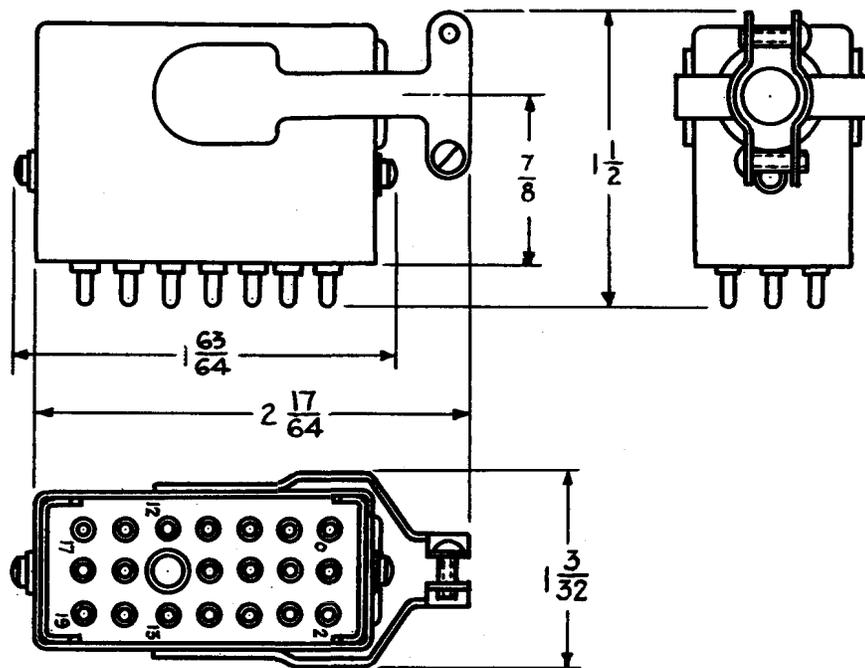


KS14482

## Twenty Contacts (Contd.)

KS14958 Plug

This plug consists of a molded block with twenty gold-plated 0.064 inch diameter terminals, assembled in an aluminum cover which is equipped with a cable clamp. It will mate with the KS14173 Jack. This plug is intended for use in the J64047B Sending Unit associated with the J64047A Transmission Measuring Set.



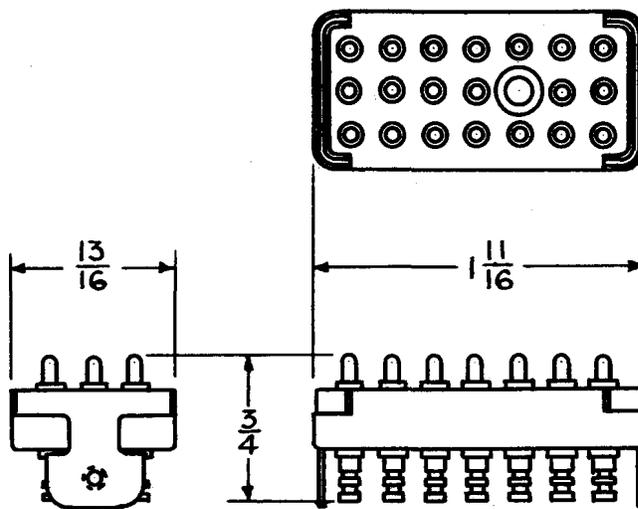
KS14958

# MULTICONTACT PLUGS

## Twenty Contacts (Contd.)

### KS16081 Plug

These plugs consist of a molded block of insulating material having twenty gold-plated terminals and a mounting bracket at each end. These brackets are shipped loose. The plugs will mate with the KS16080 Jack. KS16081, L1 plug is primarily intended for use as a part of the No. 126A Adapter and KS16081, L2 plug is primarily intended for use in the No. 124A, B, and C Adapters.

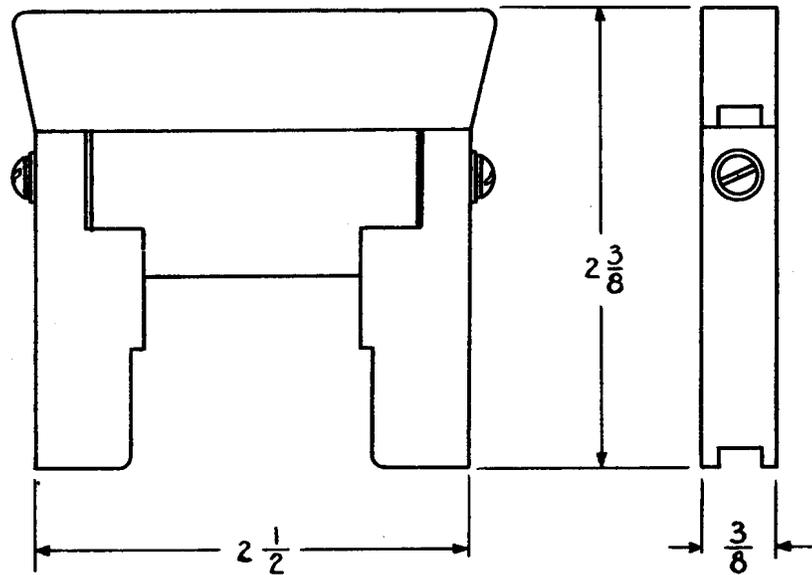


KS16081, L1

## Twenty Contacts (Contd.)

(P) No. 398A Plug

Consists of twenty contact springs assembled in a body of insulating material. It is equipped with a cover of insulating material. The plug is arranged to make contact with cable pairs on main distributing frames equipped with Nos. 1177A, 1177B, C50A, or C52A protectors. This plug forms part of the P20G cord.



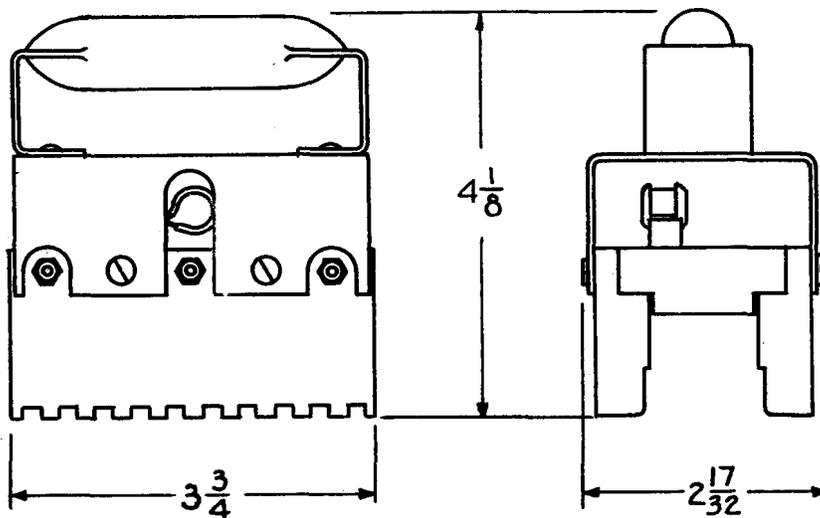
No. 398A Plug

MULTICONTACT PLUGS

Twenty Contacts (Contd.)

(P) No. 399A Plug

Consists of twenty contact springs assembled in a body of insulating material. The plug is arranged to make contact with cable pairs on main distributing frames equipped with Nos. 1177A, 1177B, C50A, or C52A protectors. This plug forms a part of the P20F cord.

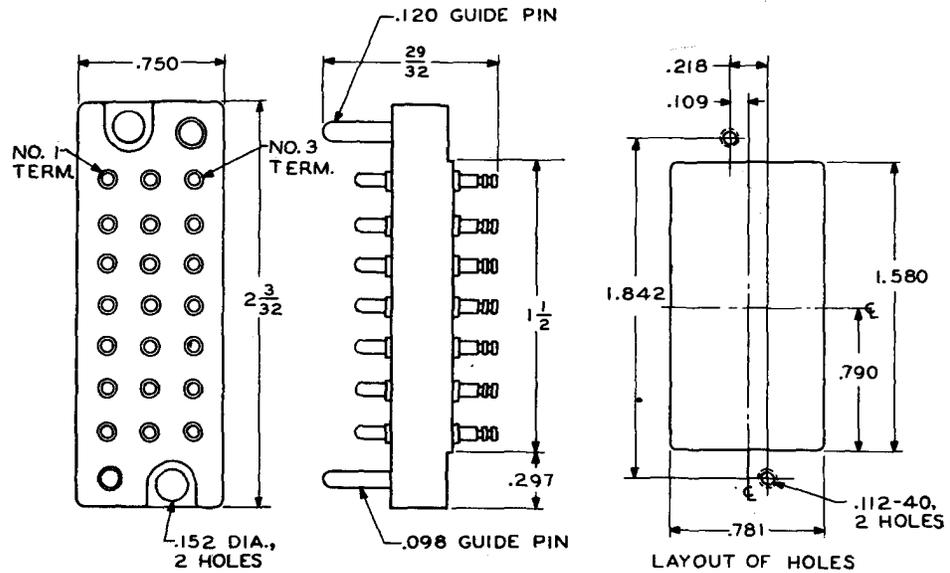


No. 399A Plug

Twenty-one Contacts

KS14671 Connector (Male)

The KS14671 connector is intended for use with the J64037B transmission measuring set per J64037 in toll systems and will mate with the KS14672 connector (female). It consists of a molded rectangular block equipped with 21 gold-plated brass terminals.



KS14671

KS16370 Connector, L9

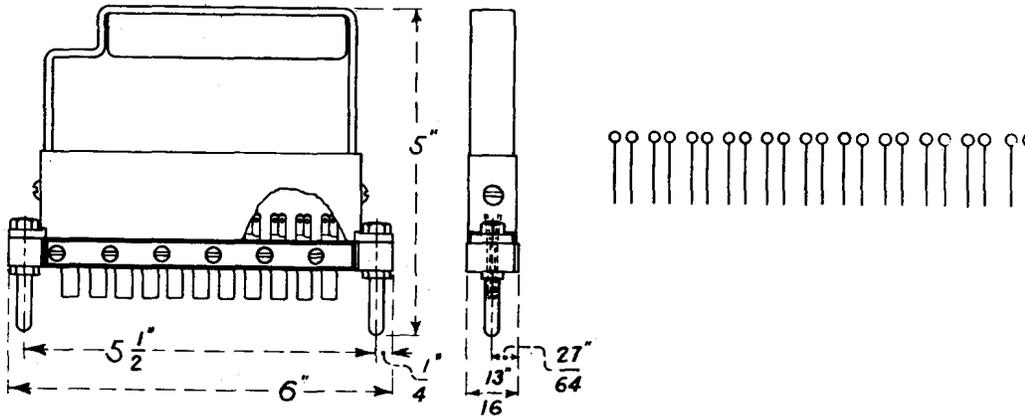
For information, see Page 25B

# MULTICONTACT PLUGS

## Twenty-two Contacts

### No. 214 Plug

Used on panel message register connector frame for testing purposes. May be used with the No. 298 jack. It is recommended that the Nos. 211A and D switches be used in place of the No. 298 jack and Nos. 214 and 216 plugs. Has cord clamp. Engages the unoccupied outer row of contact springs of the No. 298 jack. Used with the 742 cord.



No. 214

## Twenty-four Contacts

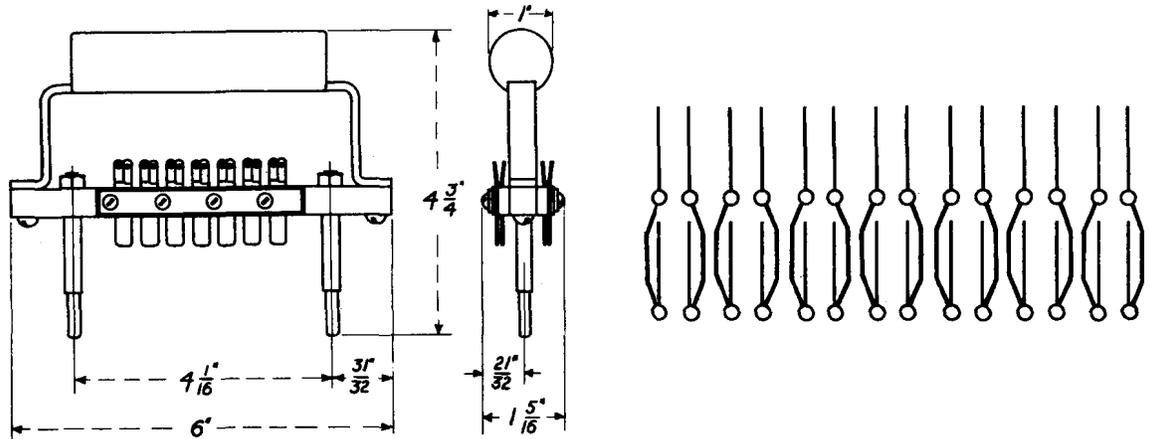
### No. 242C Plug

For information see page 30.

Twenty-eight Contacts (Contd.)

No. 187 Plug

Used in panel dial finder equipment as an emergency switching plug for patching purposes. Contacts are insulated from each other. For use with the No. 283 jack in either of two positions. Provided with guide posts.



X-75500

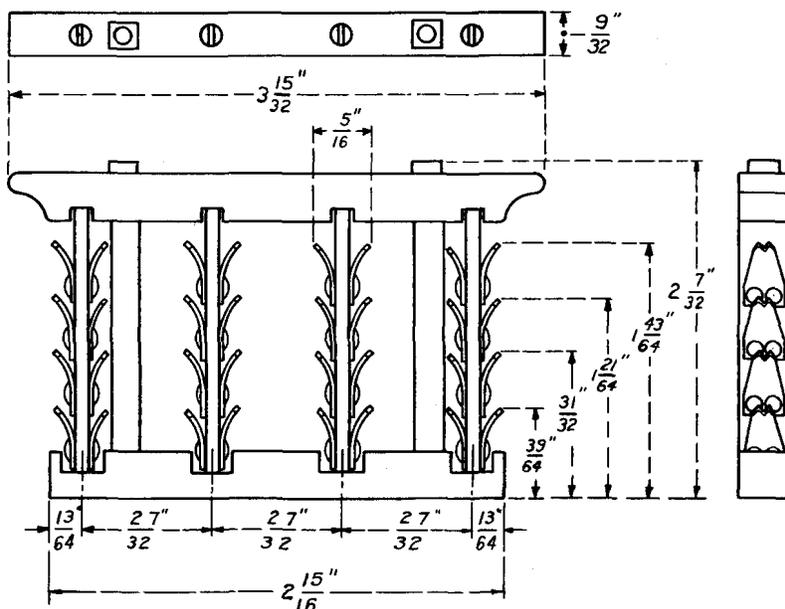
No. 187

MULTICONTACT PLUGS

Thirty-two Contacts

(P) No. 224 Plug

Used as a switching plug for making quick conversion from call circuit to call indicator operation or vice versa in panel call indicator installations. Each pair of springs is connected electrically by means of the mounting rivets. For use with the No. 153A terminal strip. For similar plug with twenty pairs of contacts see No. 239 plug, Page 48.



No. 224

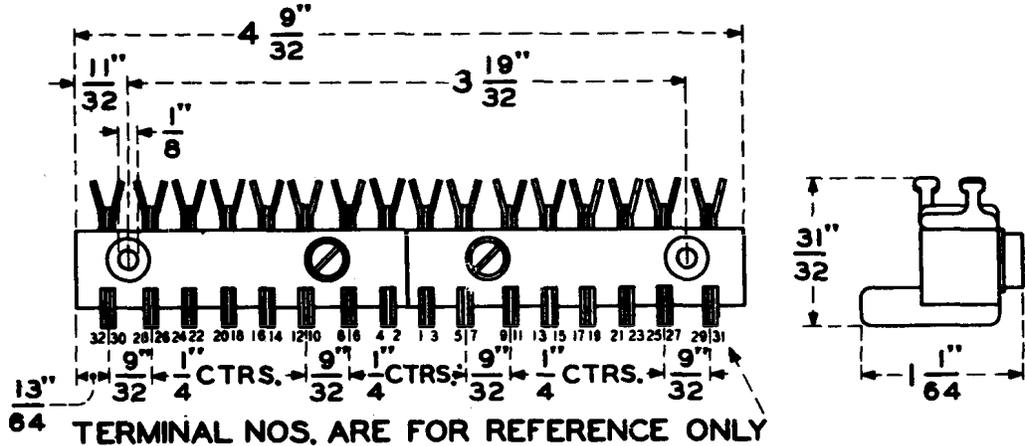
Note:

(P) Preferred Code.

Thirty-two Contacts (Contd.)

No. 333A Plug

Used in connectors and connector shelves in the No. 355A dial offices. For use with No. 461A jack. Consists of a wooden strip on which are mounted sixteen pairs of contact springs insulated from each other. For similar type plug, see 242-type plugs, page 30.



No. 333A

Thirty-four Contacts

KS16370 Connector, L10

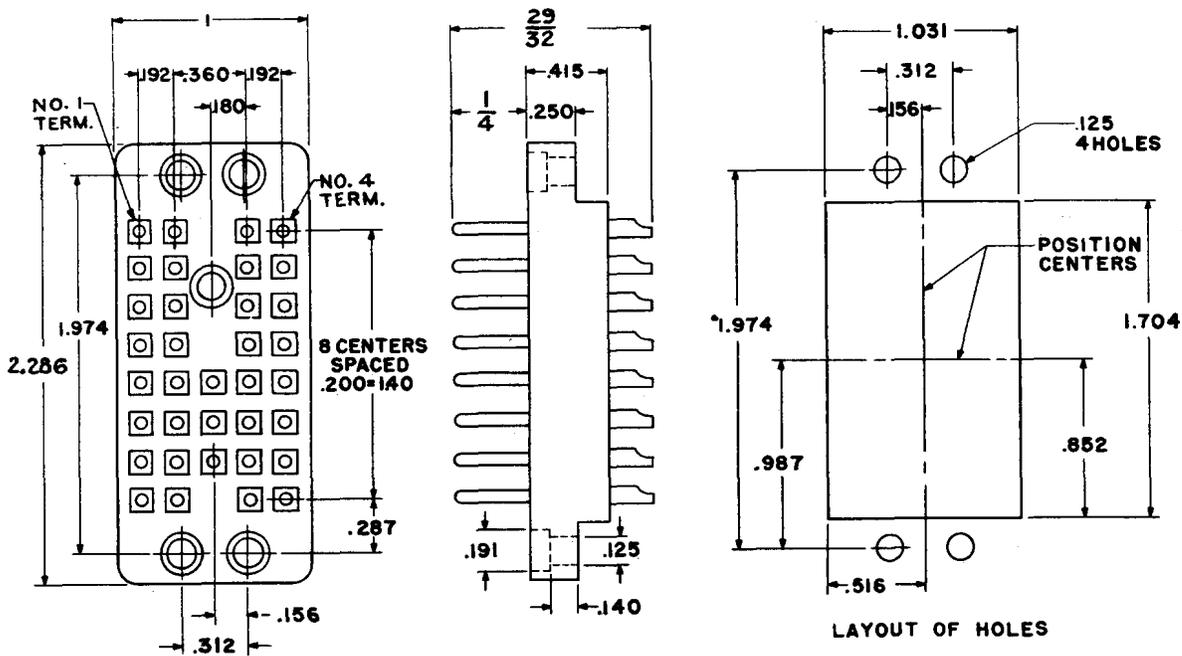
For information, see Page 25B

# MULTICONTRACT PLUGS

## Thirty-five Contacts

### KS14554 Connectors (Male)

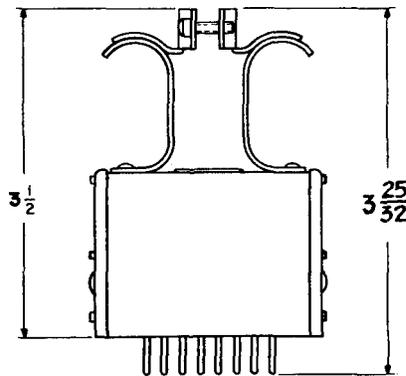
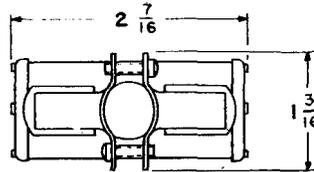
These polarized connectors consist of a molded rectangular block of insulating material equipped with 35 gold-plated brass floating male contacts. The L1 connector has two mounting holes on each end. The L2 connector is an L1 connector equipped with a grey cover with a combination handle and cable clamp at the top. The L1 and L2 connectors are intended for use with networks in the amplifiers of the A2 video equipment and also in the T3 and R3 television terminals to provide connections for the vacuum tube test set J44104R. The L3 and L4 connectors consist of an L1 connector equipped with a grey cover with a handle on top and a cable clamp. The cable clamp is located on the wide side of the cover, opposite the No. 1 terminal on the L3 connector and opposite the No. 4 terminal on the L4 connector. All cable clamps are suitable for clamping a 1/2 inch diameter cable. The L3 and L4 connectors are intended for use with the 557A PBX. All KS14554 connectors are used with the P35A cord.



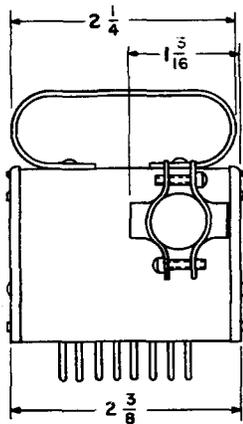
KS14554, L1

Thirty-five Contacts (Contd.)

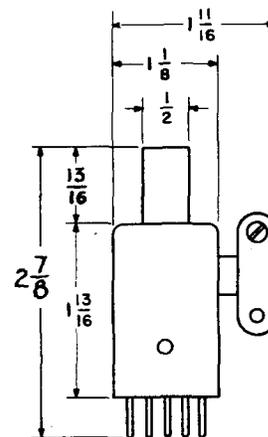
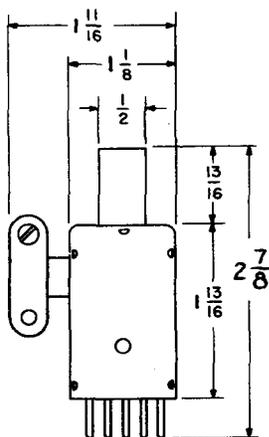
KS14554 Connectors (Contd.)



KS-14554, L2



KS14554, L3



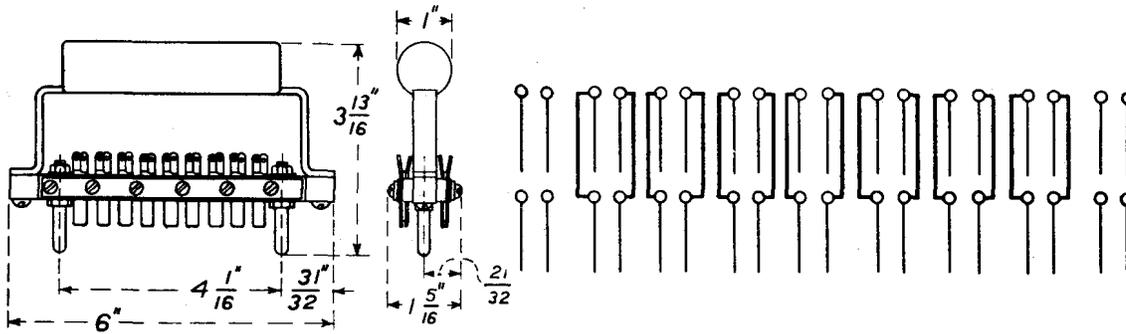
L4

# MULTICONCONTACT PLUGS

## Thirty-six Contacts

### No. 226 Plug

Used on 400-point line-finder frame as an emergency switching plug in conjunction with the No. 310 jack. Contacts are insulated from each other and are arranged in pairs. It is recommended that the No. 211B switch be used in place of the No. 226 plug and No. 310 jack.



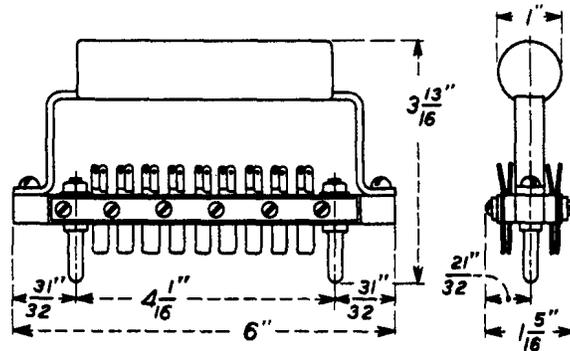
No. 226

Thirty-six Contacts (Contd)

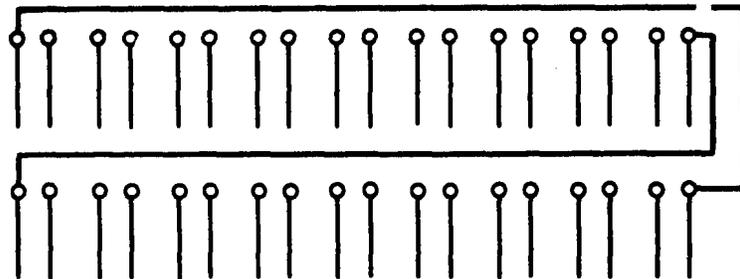
No. 231 Plug

Intended for switching in emergency switching and patching plug and jack equipment of dial offices. Contacts are insulated from each other and are arranged in pairs. For use with No. 312 jack in either of two positions.

\* Diagonally opposite terminals are strapped together.



(\*)



No. 231

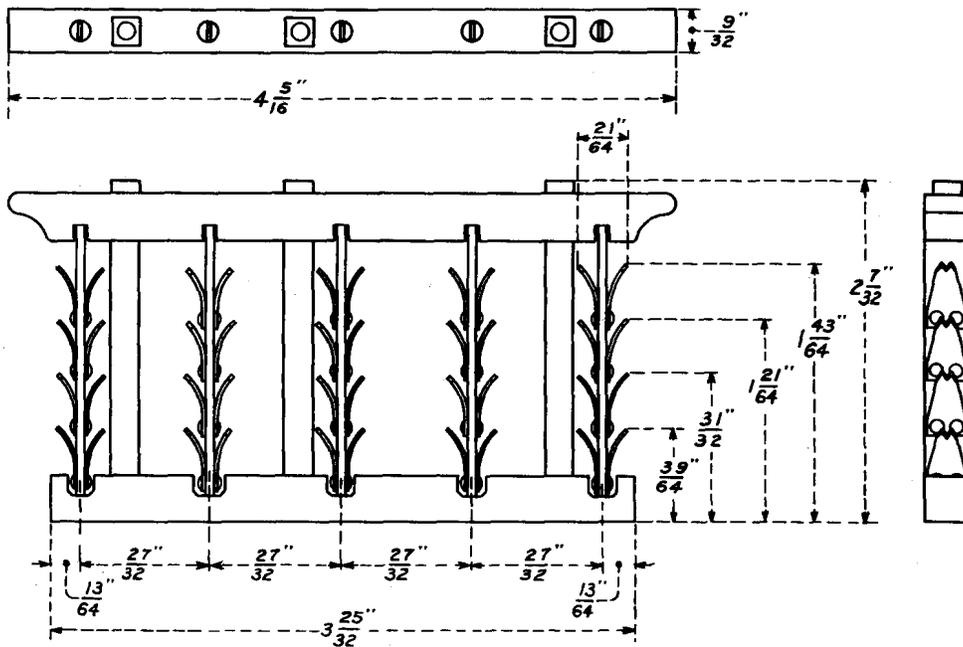
X-75500

# MULTICONTACT PLUGS

## Forty Contacts

### (P) No. 239 Plug

Used as a switching plug for making quick conversion from cable circuit to call indicator operation or vice versa in step-by-step call indicator installations. Used on the No. 153A terminal strip. Equipped with twenty pairs of contact springs, each pair being connected electrically by means of the mounting rivets. For similar plug with sixteen pairs of contacts see No. 224 plug, page 44.



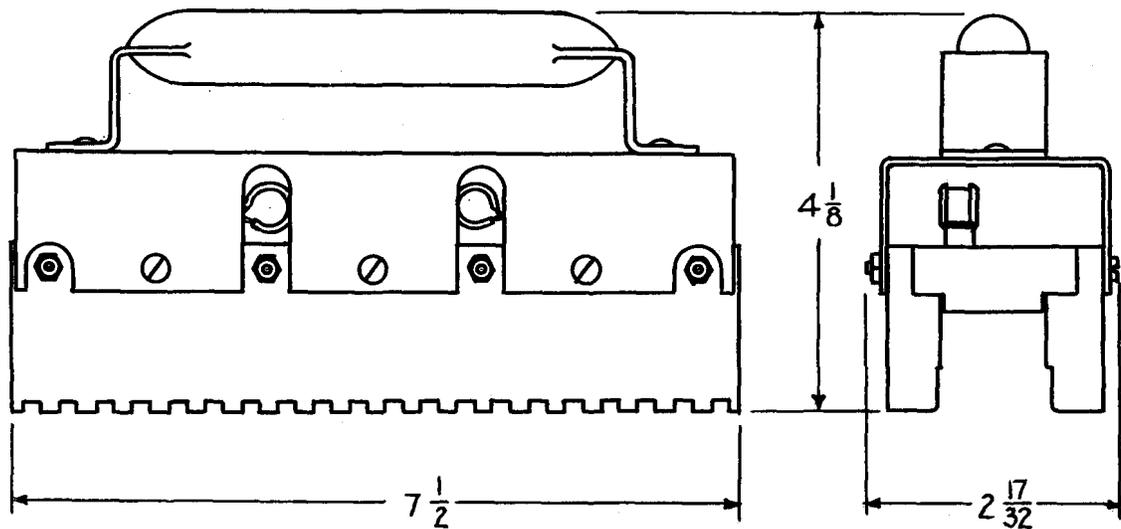
No. 239

### Note:

(P) Preferred Code.

Forty Contacts (Contd.)(P) No. 400A Plug

Consists of forty contact springs assembled in a body of insulating material. The plug is arranged to make contact with cable pairs on main distributing frames equipped with Nos. 1177A, 1177B, C50A, or C52A protectors. This plug forms a part of the P40A cord.

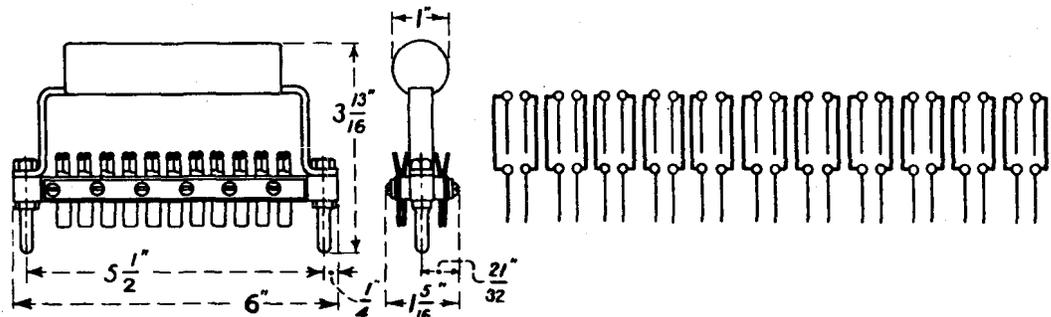


No. 400A Plug



Forty-four Contacts(P) Nos. 216 and 216B Plug

No. 216 plug is used in panel message register connector frames for emergency switching purposes. Contacts are insulated from each other and are arranged in pairs. It is for use with the No. 298 jack. This plug engages with the center and either of the outer rows of contact springs of the No. 298 jack. The 216B is the same as the 216 except bracket and handle are omitted and terminals are not strapped. It is for use with the 495A jack and is intended for use with perforators of the accounting center of the AMA system



No. 216 Type

Fifty Contacts

KS16370 Connector, L11, 12, 13, and 14

For information, see Page 25B

Note:

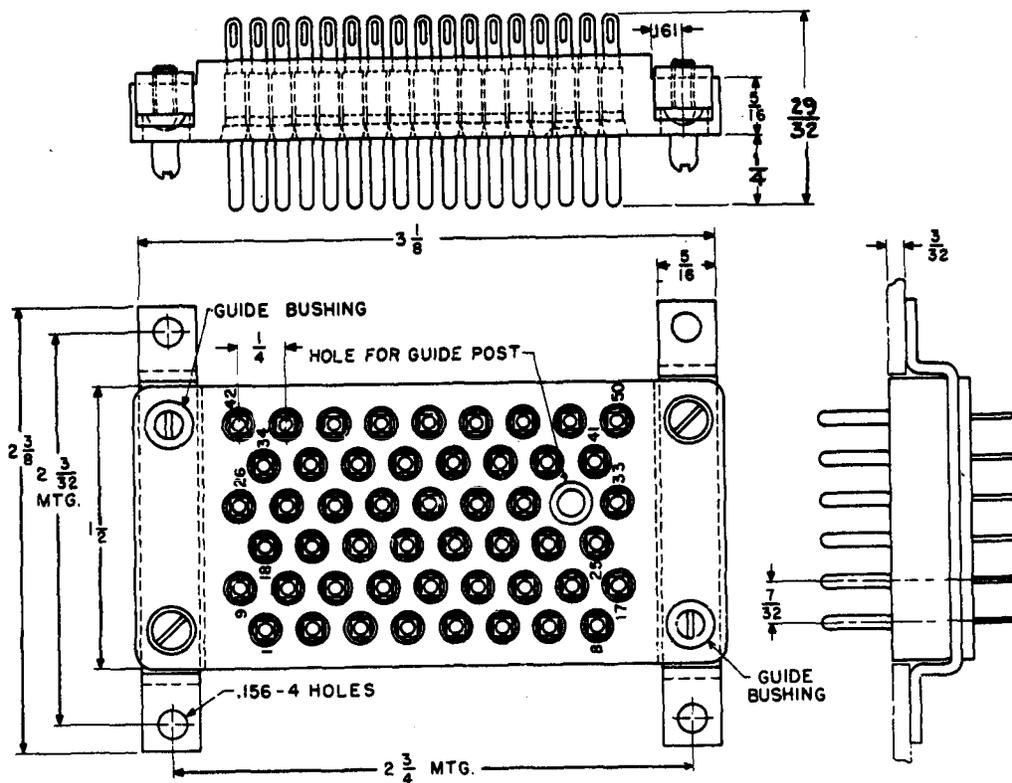
(P) Preferred Codes.

# MULTICONTACT PLUGS

## Fifty Contacts

### KS14452 Plug

These are polarized plugs having 50 gold-plated 0.064 inch diameter floating contacts. They are intended for use for patching purposes. The L1 plug is equipped with two "U" shaped brackets for 3/32 inch thick panel mounting which are located so that the face of the block will be approximately flush with the face of the panel. The L2 is equipped with a grey enamel cover which has a handle on top and a cable clamp at one end. The L3 is equipped with a grey enamel cover which has a combination cable clamp and handle riveted to its top. The L2 and L3 cable clamps are suitable for a 3/4 inch diameter cable. These plugs will mate with the KS14453 sockets.

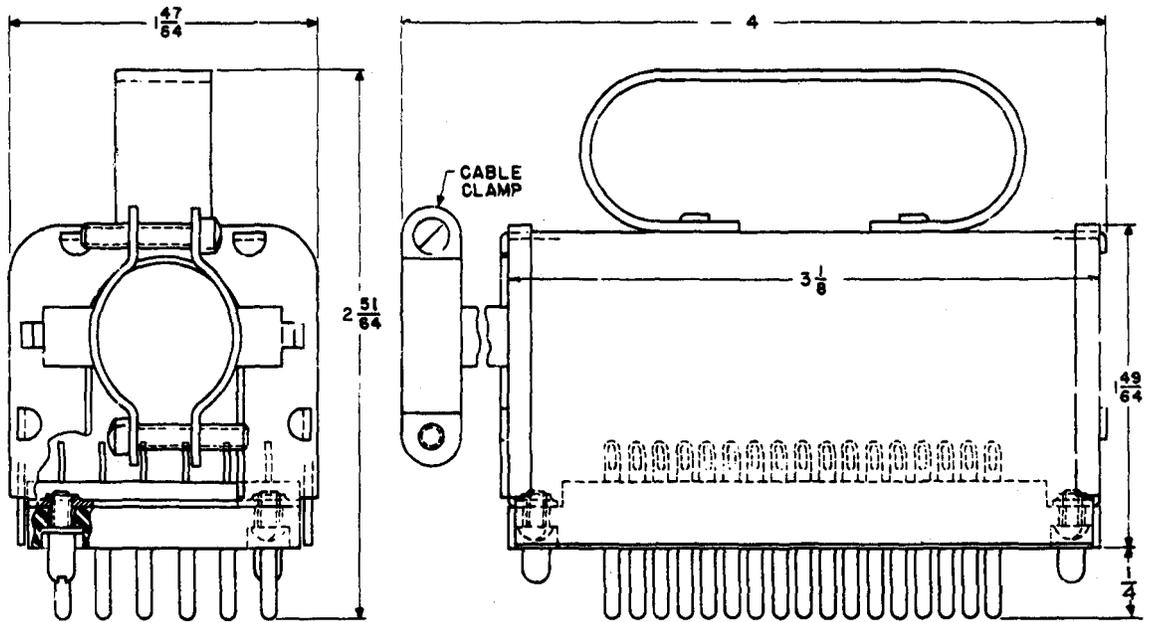


KS14452, L1

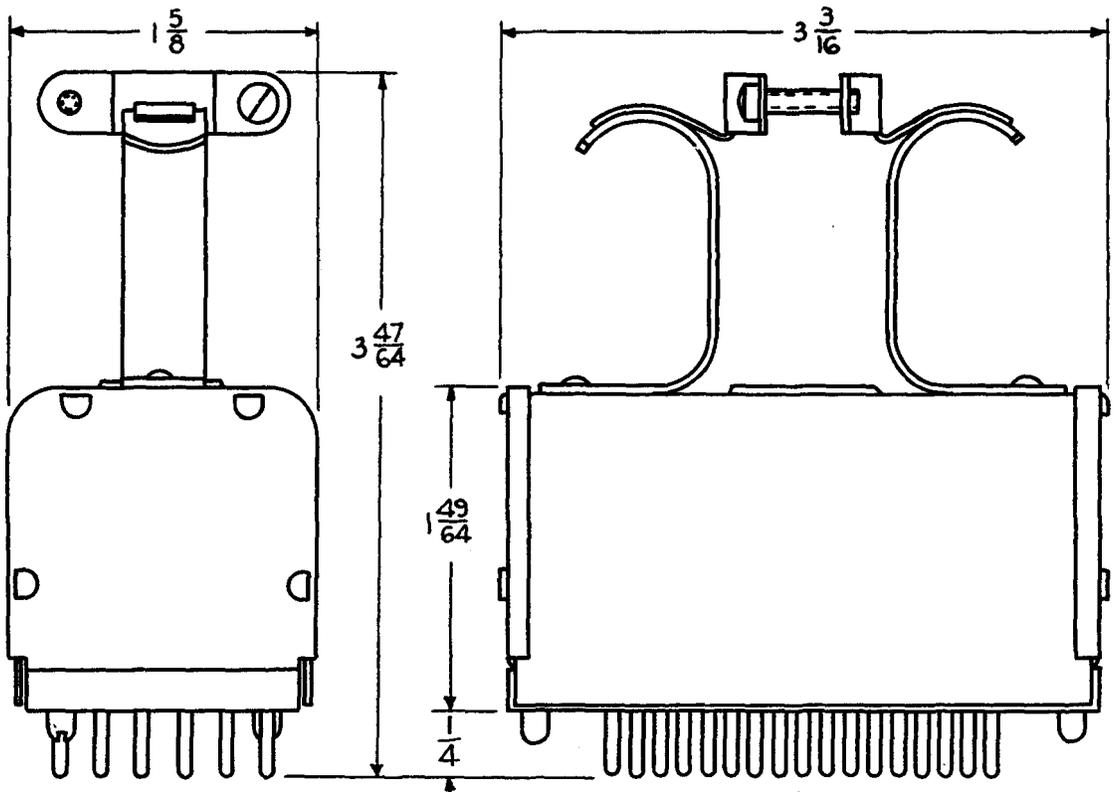
MULTICONTACT PLUGS

Fifty Contacts (Contd.)

KS14452 Plug (Contd.)



KS14452, L2



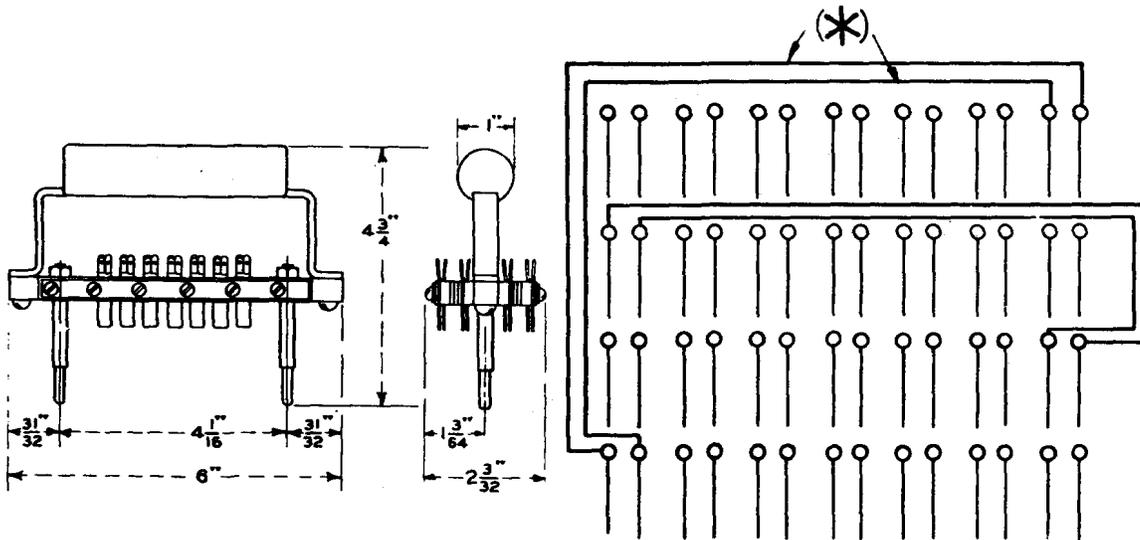
KS14452, L3

MULTICONTACT PLUGS

Fifty-six Contacts

No. 175 Plug

For use in dial equipment of the "B" sender selector frame for patching purposes. Contacts are insulated from each other and are arranged in pairs. Used with the No. 270 jack. Diagonally opposite terminals of inner rows are strapped together, diagonally opposite terminals of outer rows are strapped together. Provided with two guide posts. Strapping for two pairs is shown.

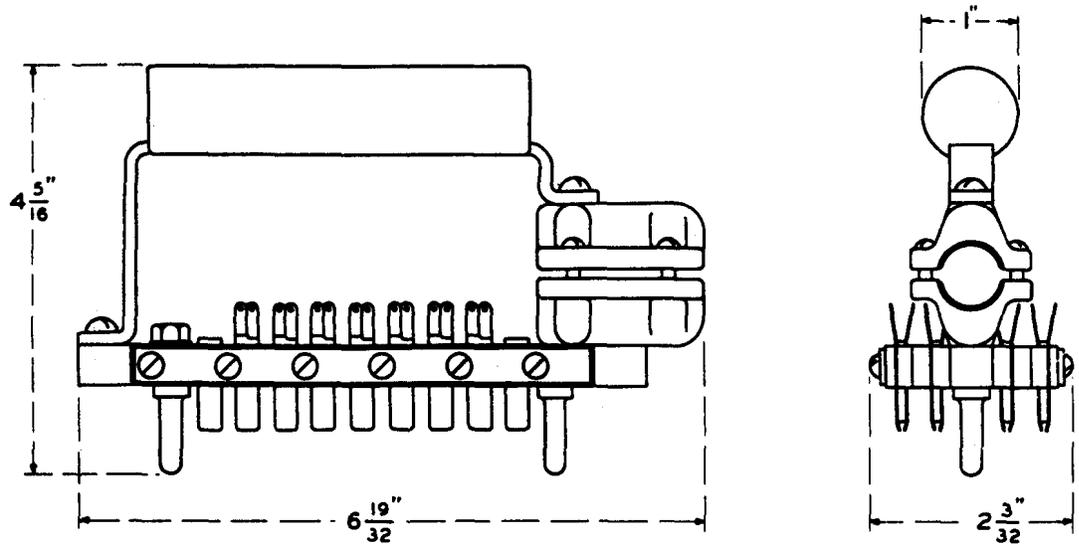


No. 175

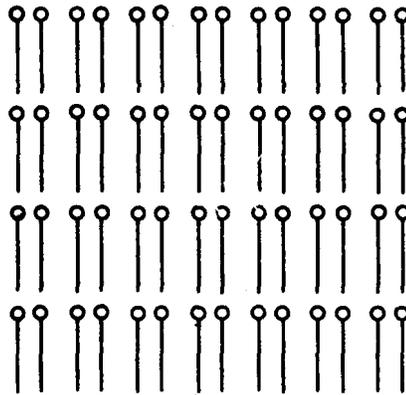
Fifty-six Contacts (Contd.)

(P) No. 300A Plug

Intended for use with the portable answering time recorder in conjunction with the No. 311 jack. Has 56 springs arranged in pairs and insulated from each other.



X-75500



No. 300A

Note:

(P) Preferred Code.



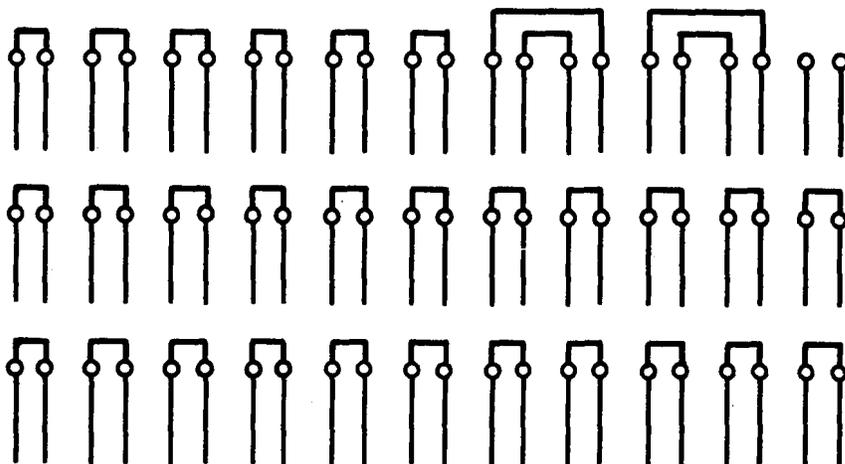
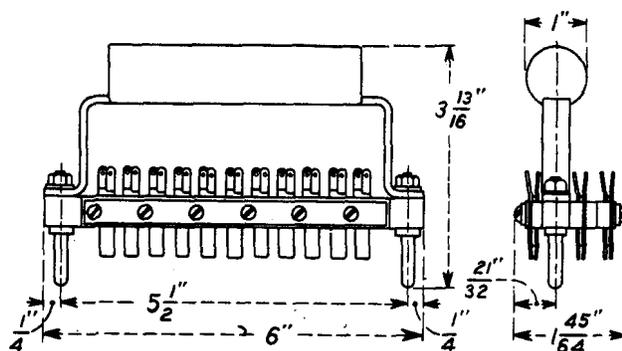


MULTICONTACT PLUGS

Sixty-six Contacts (Contd)

No. 233 Plug

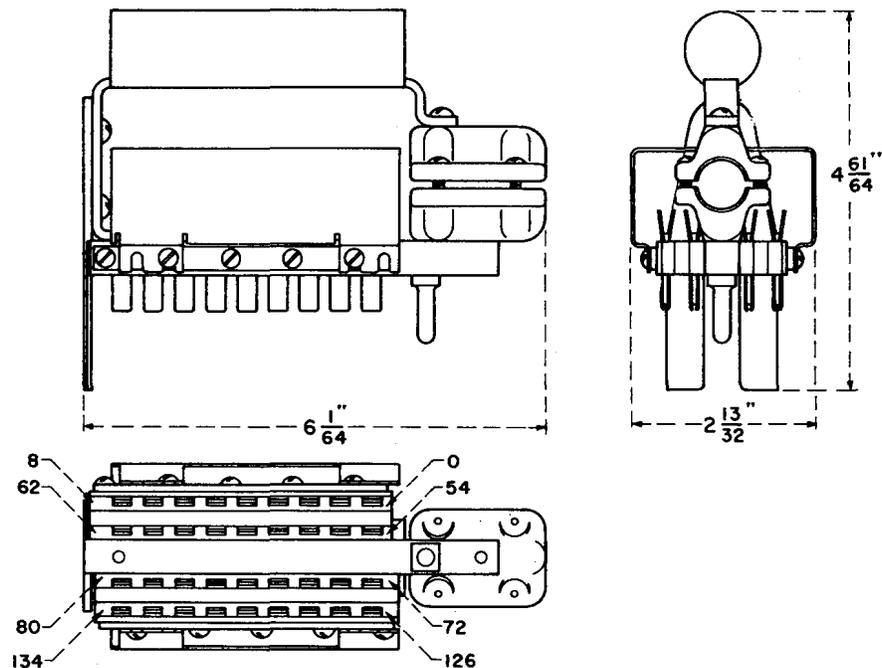
Intended for switching in emergency switching and patching and jack equipment of dial offices. Contacts are insulated from each other and are arranged in pairs. It is arranged for use with the No. 315 jack.



No. 233 Plug

Seventy-two Contacts(P) Nos. 388A and 388B Plugs

Used in connection with the 214A selector of the 1A translator test set. They are equipped with a cover and handle on top and a cable clamp at one end. The 388A plug will mate with the left half of the jack assembly of the 214A selector. The 388B plug will mate with the right half of the jack assembly of the 214A selector. Used with the P14A cord. The 388A is used with the P59A cord.



Nos. 388A and 388B Plugs

Seventy-five Contacts

KS16370 Connector, L15, 16, 17, 18, and 19

For information, see Page 25B

Note:

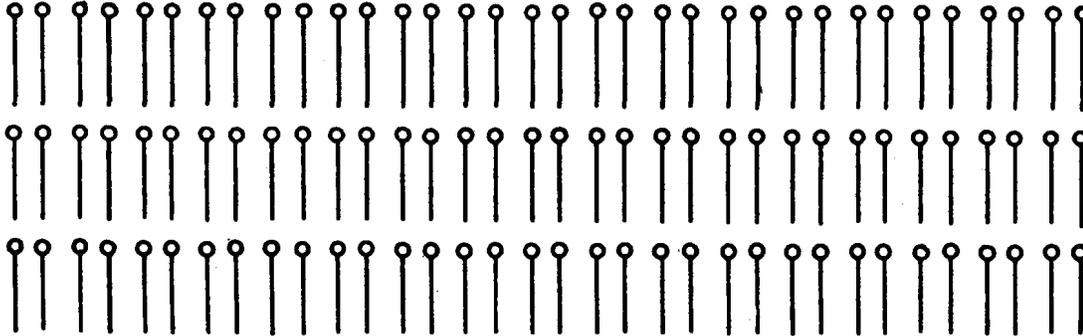
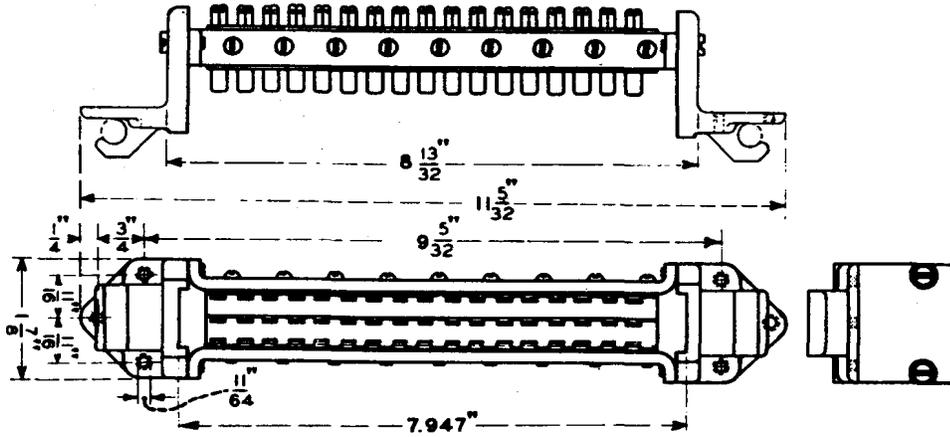
(P) Preferred Codes.

MULTICONTACT PLUGS

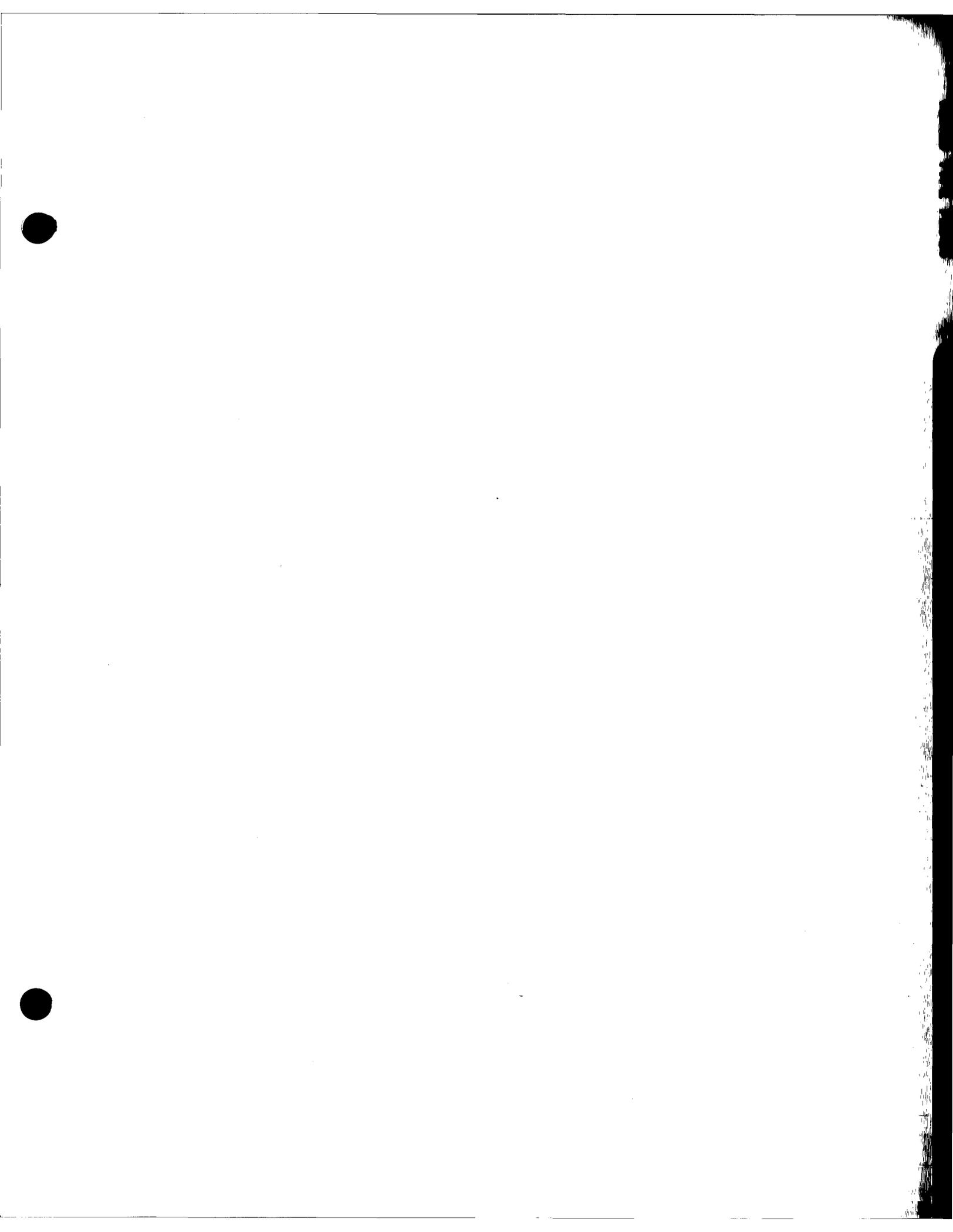
One Hundred and Two Contacts

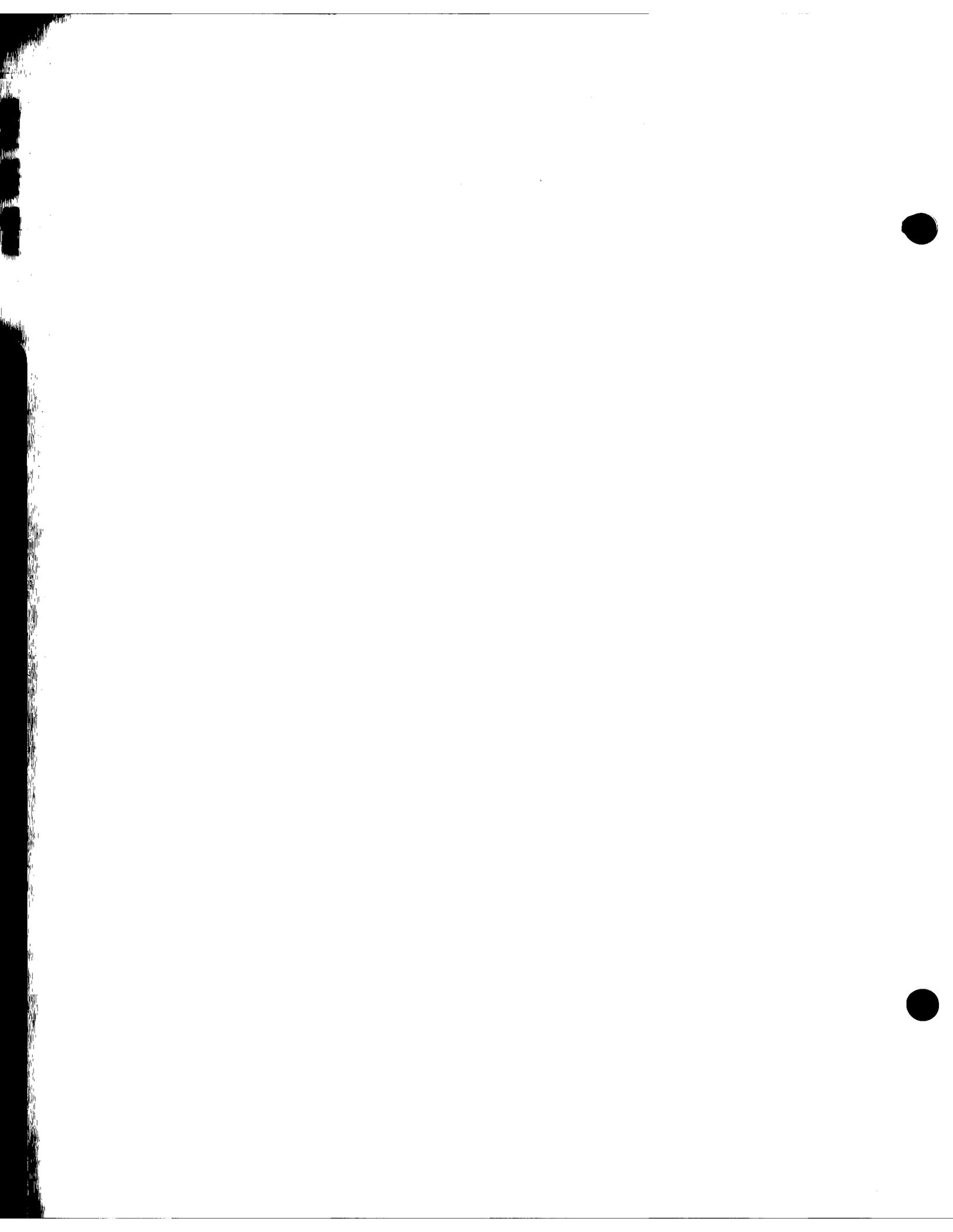
No. 174 Plug

Used in dial equipment and arranged to mount in keyshelf lock rails in a position to accommodate the jack of the No. 4-type indicator. The contacts are insulated from each other.



No. 174





SECTION XIII

JONES TYPE PLUGS AND SOCKETS

X-75500

7-15-52

XIII-1

JONES TYPE PLUGS AND SOCKETS

SOCKETS PER KS-8586 and KS-14099

PLUGS PER KS-8585, KS-9769, AND KS-14098

ELECTRICAL RATINGS

(Rated Voltage is 1/3 voltage breakdown)

<u>Series</u>	<u>Rated Voltage</u> (rms)	<u>Current Capacity</u> (amperes) per prong)	<u>Average Contact Resistance</u> (ohms)	<u>Dimensions of Prongs</u>
300	730	10	.002	5/32 x 3/64
400	1100	15	.001	1/4 x 1/16
2400	1700	15	.001	1/4 x 1/16

Interchangeability

All plugs and sockets are polarized. The 300-series plugs will not fit sockets intended for 400- or 2400-series plugs. However, 400-series plugs will fit the corresponding 2400-series sockets, and 2400-series plugs will fit the corresponding 400-series sockets.

The following plugs and sockets are interchangeable:

<u>Plug Type</u>	<u>Used with Socket Types</u>
AB (Angle Brackets)	(
FP (Flush Plate)	(
EB (End Bracket)	( FP, FHT, CCT, CCE, EB, SB,
SB (Shallow Bracket)	( and AB
RP (Recessed Plate)	( FHT, CCT and CCE
DB (Deep Bracket)	(
FHT (Cap with flared hole at top)	(
CCT (Cap with cable clamp at top)	( AB, FP, RP, DB, FHT, CCT,
CCE (Cap with cable clamp at end)	( EB, SB, and CCE

### Finishes

The following parts have black crystal finish except where otherwise specified:

Caps, flush plates, recessed plates, shallow brackets, deep brackets. In KS-8585 plugs and KS-8586 sockets the black finish is applied over the zinc plate on these parts.

Caps are of formed metal, lined with fiber, except as follows: The fiber lining is omitted in the KS-8586, L1 socket.

### KS-8585 Plugs and KS-8586 Sockets

All metallic parts except the contact members are zinc plated. All contact members have silver-plate finish. These plugs and sockets are suitable for use in the tropics.

### KS-9769 Plugs, KS-14098 Plugs, and KS-14099 Sockets

All contact members have silver-plate finish.

### Numbering of Contacts

#### 300 Series and 2400 Series (per all KS- Specifications)

The prongs of the plugs are numbered consecutively beginning with one. The corresponding contacts of the sockets have the same numbers.

#### 400 Series (per KS-8585 and KS-8586)

No. 404 plugs of any type have the prongs numbered consecutively beginning with 13.

Nos. 408 and 412 plugs of any type have the prongs numbered beginning with one.

The corresponding contacts of the sockets in all cases are numbered the same as the sockets.

### All Series

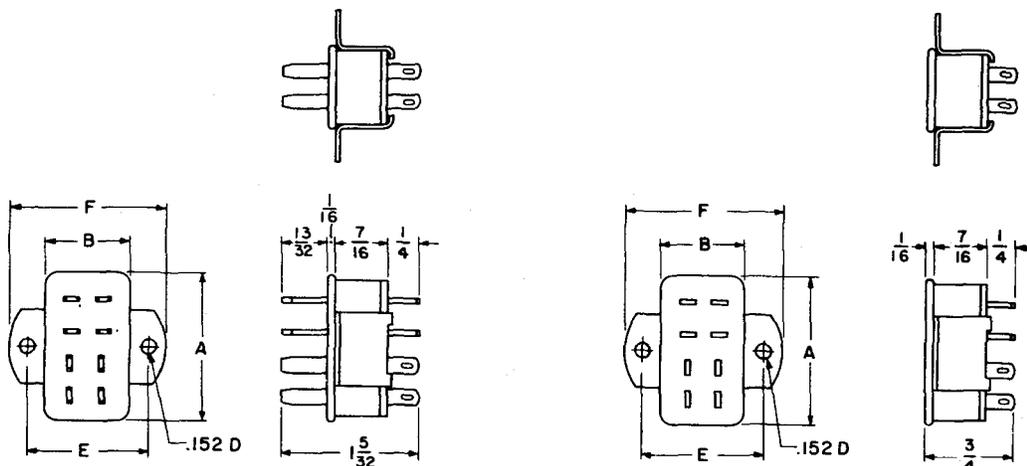
The last two digits of any type number indicate the number of prongs or socket contacts in the plug or socket.

JONES TYPE PLUGS AND SOCKETS

Angle Bracket Type (2 to 12 contacts)

KS-8585 Plugs

KS-8586 Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>E</u>	<u>F</u>	<u>Notes</u>
12	P-302-AB	21/32	21/32	31/32	1-9/32	17
8	P-304-AB	3/4	11/16	1"	1-5/16	
16	P-306-AB	1"	11/16	1"	1-5/16	
20	P-306-AB	1"	11/16	1"	1-5/16	9, 24
13	P-308-AB	1-1/4	11/16	1"	1-5/16	
18	P-310-AB	1-9/16	11/16	1"	1-5/16	
33	P-312-AB	1-1/4	15/16	1-1/4	1-9/16	

KS-8586 Sockets

18	S-302-AB	21/32	21/32	31/32	1-9/32	17
5	S-304-AB	3/4	11/16	1"	1-5/16	
12	S-306-AB	1"	11/16	1"	1-5/16	24
10	S-308-AB	1-1/4	11/16	1"	1-5/16	
17	S-310-AB	1-9/16	11/16	1"	1-5/16	
40	S-312-AB	1-1/4	15/16	1-1/4	1-9/16	

Notes:

9 - Same as P-306-AB except angle brackets are omitted and it has a special mounting bracket and a special Howard B. Jones plate. See page 23.

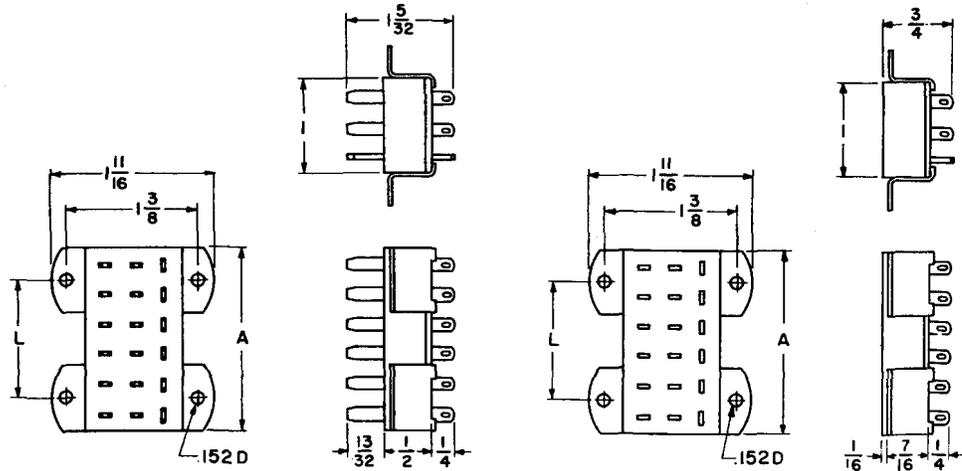
17 - Circular face instead of rectangular.

24 - KS-8585, list 20 and KS-8586, list 12 mounted in a combination bracket and cover are known as KS-14675 - See XIII-24.

Angle Bracket Type (15 to 33 contacts)

KS-8585 Plugs

KS-3586 Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>L</u>	<u>Notes</u>
22	P-315-AB	1-5/8		20
11	P-318-AB	1-15/16	1-1/4	
2	P-324-AB	2-9/16	1-1/4	
5	P-324-AB	2-9/16	1-1/4	5
23	P-333-AB	3-1/2	2-3/16	

KS-8586 Sockets

47	S-315-AB	1-5/8	—	20
42	S-318-AB	1-15/16	1-1/4	
32	S-321-AB	2-1/4	15/16	
33	S-324-AB	2-9/16	1-1/4	12
34	S-327-AB	2-7/8	1-9/16	
48	S-333-AB	3-1/2	2-3/16	

Notes:

- 5 - Same as list 2, except without angle brackets and bracket pins. Holes for bracket pins are provided.
- 12 - The polarizing pin or contact is replaced by a plug or socket contact the same as the other contacts.
- 20 - Two mounting holes only.

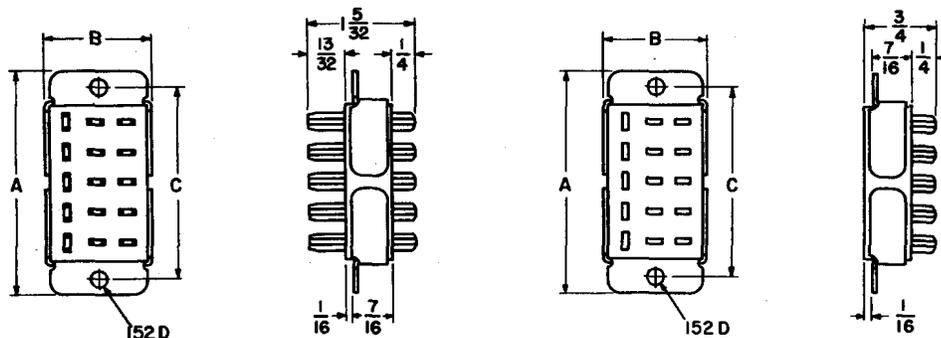
X-75500

JONES TYPE PLUGS AND SOCKETS

End Bracket Type

KS-8585 Plugs

KS-8586 Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>
21	P-315-EB	2-5/16	1.072	2

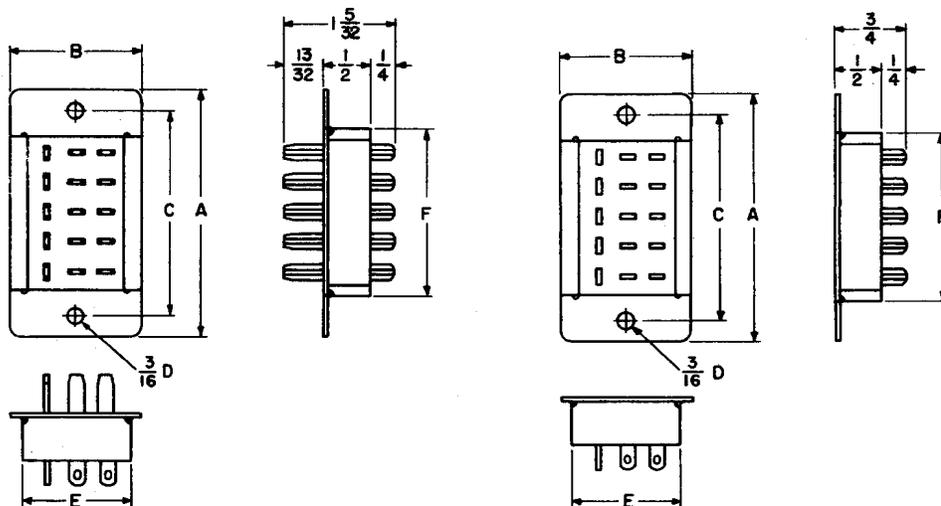
KS-8586 Sockets

35	S-333-EB	4-3/16	1.072	3-7/8
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Shallow Bracket Type

KS-8585 Plugs

KS-8586 Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>E</u>	<u>Notes</u>
29	P-315-SB	2-35/64	1-3/8	2-1/8	1-3/4	1-5/32	11
35	P-318-SB	2-55/64	1-3/8	2-7/16	2-1/16	1-5/32	11

KS-8586 Sockets

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>E</u>	<u>Notes</u>
19	S-315-SB	2-35/64	1-3/8	2-1/8	1-3/4	1-5/32	
37	S-318-SB	2-55/64	1-3/8	2-7/16	2-1/16	1-5/32	11
43	S-318-SB	2-55/64	1-3/8	2-7/16	2-1/16	1-5/32	
20	S-321-SB	3-11/64	1-3/8	2-3/4	2-3/8	1-5/32	
21	S-333-SB	4-27/64	1-3/8	4"	3-5/8	1-5/32	

Notes

11 - The bracket has a baked gray enamel finish.

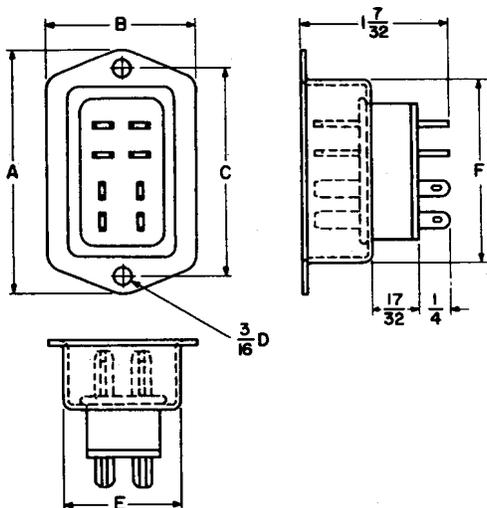
X-75500

# JONES TYPE PLUGS AND SOCKETS

## Deep Bracket Type

### KS8585 Plugs

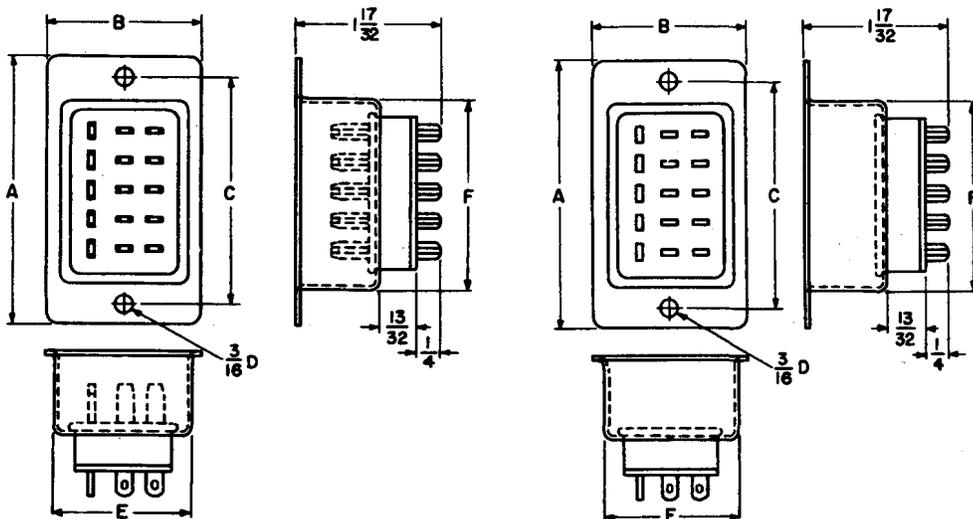
### KS8586 Sockets



### KS8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>E</u>	<u>Notes</u>
44	P-308-DB	2-7/64	1-7/32	1-3/4	1-3/8	1-1/16	--
46	P-312-DB	2-7/64	1-7/32	1-3/4	1-3/8	1/1/16	11

### Deep Bracket Type



#### Note:

11-The bracket has a baked grey enamel finish.

Deep Bracket Type (Contd.)

KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>E</u>
7	P-324-DB	3-3/4	1-5/8	3-5/16	2-29/32	1-23/64
47	P-321-DB	3-3/4	1-5/8	3-5/16	2-29/32	1-23/64

KS-8586 Sockets

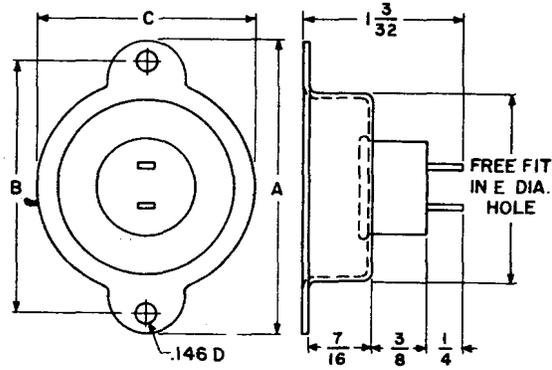
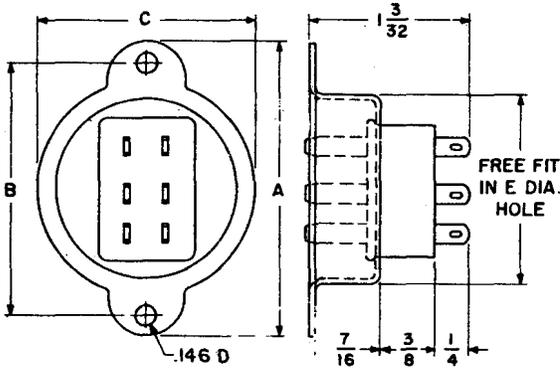
46	S-333-DB	4-11/16	1-5/8	4-1/4	3-7/8	1-7/16
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JONES TYPE PLUGS AND SOCKETS

Recessed Plate Type

KS-8585 Plugs

KS-8586 Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>Notes</u>
14	P-304-RP	2-1/16	1-3/4	1-1/2	1-5/16	-
6	P-306-RP	2-1/16	1-3/4	1-1/2	1-5/16	-
1	P-324-RP	2-1/16	1-3/4	1/2	1-5/16	31

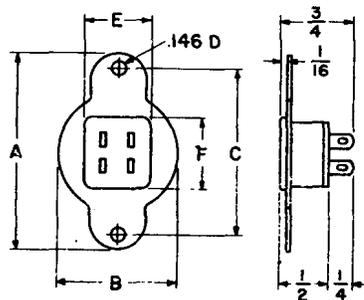
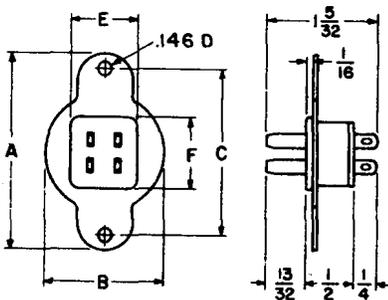
KS-8586 Sockets

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>
11	S-302-RP	2-1/16	1-3/4	1-1/2	1-5/16

Flush Type Plate

KS-8585 Plugs

KS-8586 Sockets



Note:

31- Arranged to mount on flush wall plate furnished as part of plug.

Flush Plate Type (contd.)

KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>F</u>	<u>E</u>
24	P-304-FP	2-1/16	1-1/4	1-3/4	3/4	11/16

KS-8586 Sockets

22	S-304-FP	2-1/16	1-1/4	1-3/4	3/4	11/16
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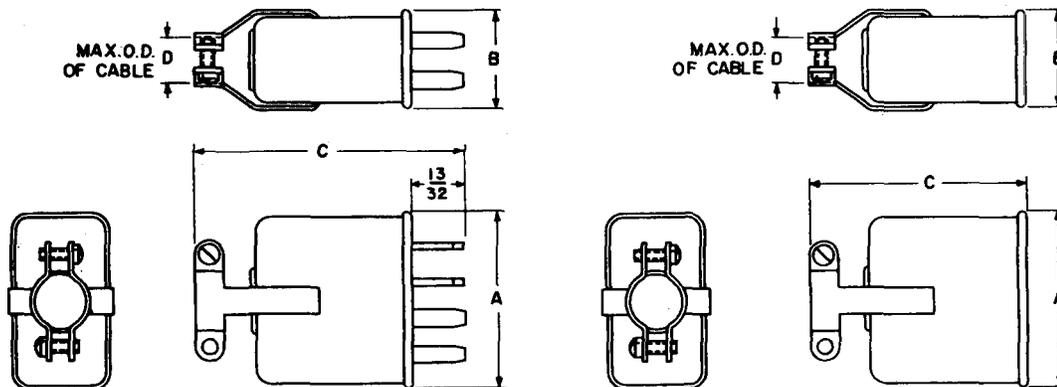
X-75500

# JONES TYPE PLUGS AND SOCKETS

## Cap Type with Cable Clamp at Top (2 to 12 Contacts)

### KS8585 Plugs

### KS8586 Sockets



### KS8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>Notes</u>
15	P-302-CCT	21/32	21/32	1-23/32	3/8	17
9	P-304-CCT	3/4	11/16	1-3/4	3/8	
17	P-306-CCT	1	11/16	1-7/8	7/16	
10	P-308-CCT	1-1/4	11/16	1-29/32	1/2	
19	P-310-CCT	1-9/16	11/16	2-1/32	1/2	
37	P-310-CCT	1-9/16	11/16	2-1/32	1/2	11
38	P-312-CCT	1-1/4	15/16	2-1/32	9/16	11
40	P-312-CCT	1-1/4	15/16	2-1/32	9/16	
45	P-306-CCT	1	11/16	1-7/8	7/16	11, 29
48	P-304-CCT	3/4	11/16	1-3/4	3/8	29

### Used with Cords

9	M4AD, W4AU, W14B, and W20B
10	P8A and P8B
15	W5C
17	P5F, W14B, and W20B
40	P12A

### Notes:

- 11 - The cover has a baked grey enamel finish.
- 17 - Circular face instead of rectangular.
- 29 - Has latches.

JONES TYPE PLUGS AND SOCKETS

Cap Type with Cable Clamp on Top (2 to 12 Contacts)(Contd.)

KS8586 Sockets

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>Notes</u>
9	S-302-CCT	21/32	21/32	1-3/8	3/8	17
6	S-304-CCT	3/4	11/16	1-11/32	3/8	
26	S-306-CCT	1	11/16	1-15/32	7/16	11
4	S-306-CCT	1	11/16	1-15/32	7/16	7
28	S-306-CCT	1	11/16	1-15/32	7/16	13
7	S-308-CCT	1-1/4	11/16	1-1/2	1/2	
13	S-310-CCT	1-9/16	11/16	1-5/8	1/2	
31	S-310-CCT	1-9/16	11/16	1-5/8	1/2	14
39	S-310-CCT	1-9/16	11/16	1-5/8	1/2	11
36	S-312-CCT	1-1/4	15/16	1-5/8	9/16	11
50	S-306-CCT	1	11/16	1-15/32	7/16	11,29
52	S-304-CCT	3/4	11/16	1-11/32	3/8	30

Used with Cords

9	M2EH
6	W4AU
4	P5F
7	P8B and W8D
36	P12B

Notes:

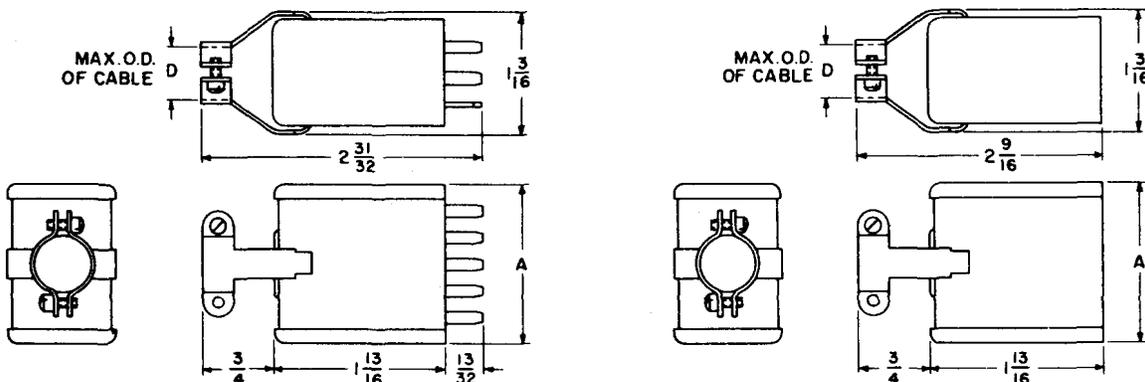
- 7 - The pull required to withdraw the socket from an associated plug is not less than three pounds.
- 11 - The cover has a baked grey enamel finish.
- 13 - Has smaller cable clamp than normally supplied. The screws furnished with this clamp are 5/16 inch long.
- 14 - The clamp screws are 5/16 inch long.
- 17 - Circular face instead of rectangular.
- 29 - Has latches.
- 30 - Has keeper.

# JONES TYPE PLUGS AND SOCKETS

## Cap Type with Cable Clamp at Top (15 to 33 Contacts)

### KS8585 Plugs

### KS8586 Sockets



### KS8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>D</u>	<u>Notes</u>
25	P-315-CCT	1-11/16	9/16	18,25
36	P-318-CCT	2	9/16	11
43	P-333-CCT	3-9/16	3/4	

### KS8586 Sockets

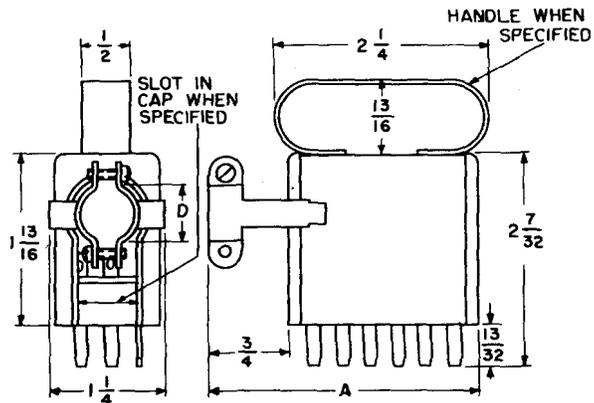
27	S-315-CCT	1-11/16	9/16	11
29	S-315-CCT	1-11/16	9/16	13
24	S-315-CCT	1-11/16	9/16	18
15	S-315-CCT	1-11/16	9/16	
8	S-318-CCT	2	9/16	
38	S-318-CCT	2	9/16	11
51	S-321-CCT	2-5/16	5/8	

### Notes:

- 11 - The cover has a baked grey enamel finish.
- 13 - Smaller cable clamps than normally supplied. The screws furnished are 5-16 inch long.
- 18 - Has rubber bushing in cable hole.
- 25 - Use with M8F cord.

Cap Type with Cable Clamp at End

KS-8585 Plugs



X-75500

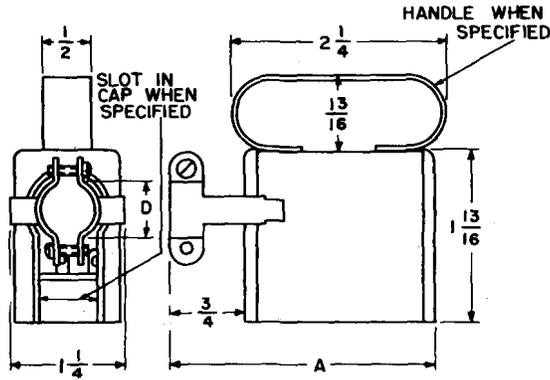
<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>D</u>	<u>Notes</u>
34	P-318-CCE	2-3/4	9/16	8, 11, 26
41	P-318-CCE	2-3/4	9/16	16
30	P-321-CCE	3-1/16	5/8	8, 11
31	P-324-CCE	3-3/8	5/8	8, 11, 12
32	P-327-CCE	3-11/16	5/8	8, 11
26	P-333-CCE	4-5/16	3/4	8, 15, 27

Notes:

- 8 - Has a handle on top and a slot below the cable clamp on the end.
- 11 - The cover has a baked gray enamel finish.
- 12 - The polarizing pin or contact is replaced by a plug or socket contact the same as the other contacts.
- 15 - The side of the case to which the handle is attached has the following marking "Caution - To Disengage Do Not Tilt - Pull Straight."
- 16 - Has a handle on top.
- 26 - Used with W66 cord.
- 27 - Used with P33A cord.

Cap Type with Cable Clamp at End

KS-8586 Sockets



<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>D</u>	<u>Notes</u>
14	S-315-CCE	2-7/16	9/16	
30	S-315-CCE	2-7/16	9/16	13
41	S-318-CCE	2-3/4	9/16	8, 11
49	S-318-CCE	2-3/4	9/16	
16	S-333-CCE	4-5/16	3/4	8, 27

Notes:

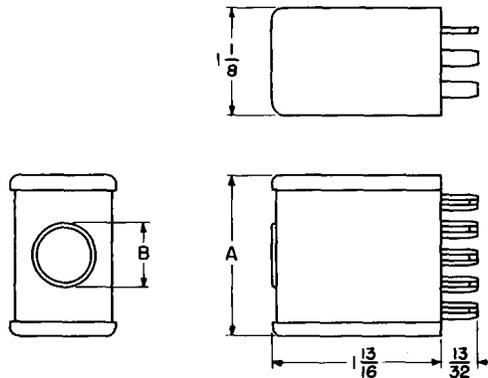
8 - Has a handle on top and a slot below the cable clamp on the end.

11 - The cover has a baked gray enamel finish.

13 - Has smaller cable clamp than normally supplied. The screws furnished with this clamp are 5/16-inch long.

27 - Used with P33A cord.

Cap Type Flared Hole in Top



X-75500

KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>Notes</u>
39	P-318-FHT	2	9/16	21

KS-8586 Sockets

1	S-324-FHT	2-5/8	5/8	23
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KS-9769 Plugs

2	P-318-FHT	2		22
1	P-324-FHT	2-5/8		22
3	P-327-FHT	2-15/16		22

Notes:

21 - Has handle Fig. 2 Page 23.

22 - Has handle Fig. 1 Page 23 Has no cable hole.

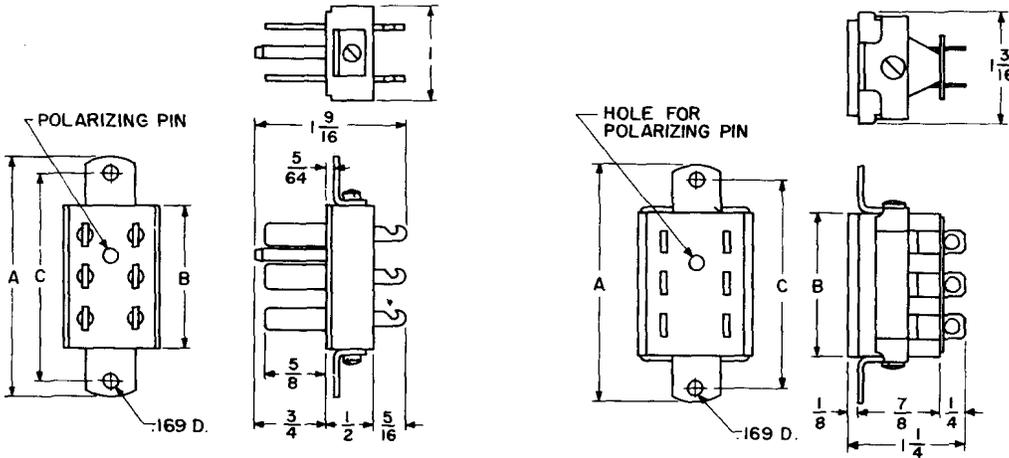
23 - Has handle Fig. 3 Page 23, and rubber sleeve in cable hole.

JONES TYPE PLUGS AND SOCKETS

Angle Bracket Type

Plugs

Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>
3	P-404-AB	2-1/16	1	1-5/8

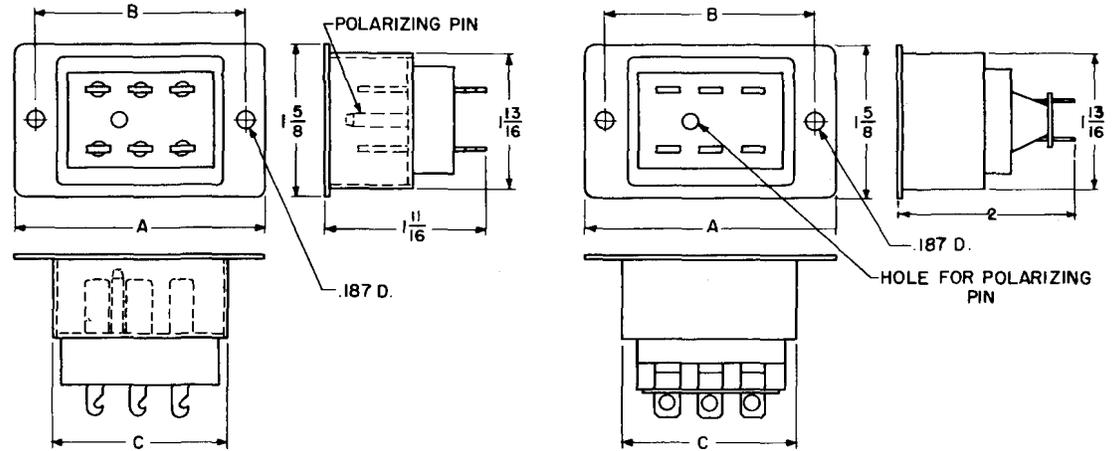
KS-8586 Sockets

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>
2	S-404-AB	2-1/16	1	1-5/8
23	S-412-AB	3-13/16	2-3/4	3-3/8

Deep Bracket Type

Plugs

Sockets



KS-8586 Sockets

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>Notes</u>
44	S-408-DB	3-1/16	2-5/8	2-1/4	11

KS-14098 Plugs (A)

6	P-2406-DB	2-5/8	2-3/16	1-13/16	11
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Notes:

(A) - Plugs in the 2400 series are slightly different in design but have approximately the same over-all dimensions as the 400 series. They have a higher voltage rating.

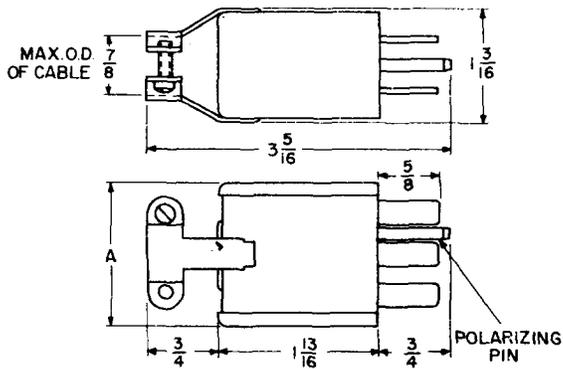
11 - The bracket has a baked gray enamel finish.

X-75500

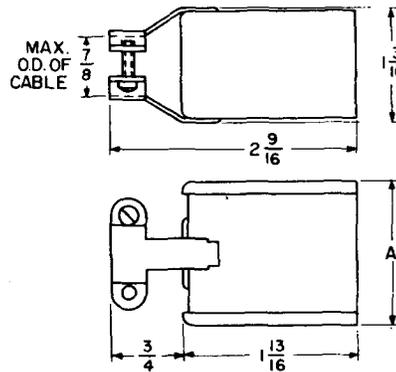
JONES TYPE PLUGS AND SOCKETS

Cap Type with Cable Clamp at Top

Plugs



Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>Std. Size Hole in Cap</u>	<u>Max. Size Hole in Cap</u>	<u>Notes</u>
4	P-404-CCT	1-1/16	7/16	3/4	
27	P-412-CCT	2-13/16	5/8	7/8	28

KS-8586 Sockets

3	S-404-CCT	1-1/16	7/16	3/4	
25	S-412-CCT	2-13/16	5/8	7/8	

KS-14099 Sockets (A)

7	S-2406-CCT	1-1/2	7/16	7/8	11
6	S-2410-CCT	2-3/8	9/16	7/8	11

Notes:

(A) - Sockets in the 2400 series are slightly different in design but have the same over-all dimensions as the 400 series. They have a higher voltage rating.

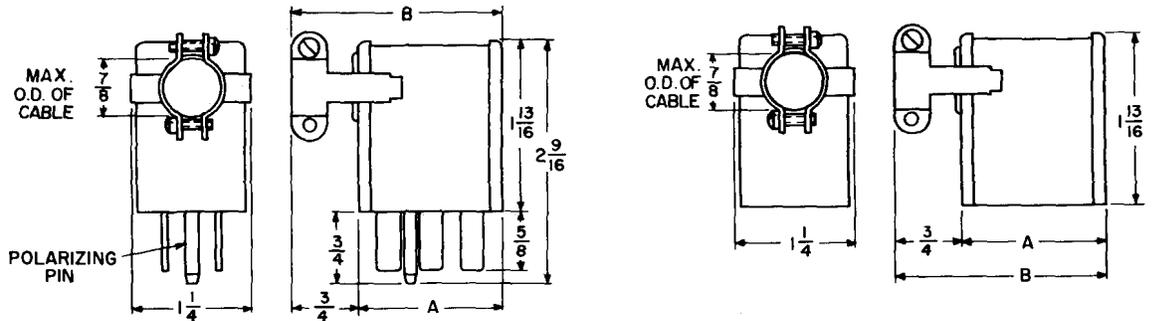
11 - The cover has a baked gray enamel finish.

28 - Used with M12H cord.

Cap Type with Cable Clamp at End

Plugs

Sockets



KS-8585 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>Std. Size Hole in Cap</u>	<u>Notes</u>
42	P-408-CCE	1-15/16	2-11/16	9/16	11, 19

KS-8586 Sockets

45	S-408-CCE	1-15/16	2-11/16	9/16	11, 19
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KS-14098 Plugs (A)

4	P-2410-CCE	2-3/8	3-1/8	9/16	6, 11
2	P-2412-CCE	2-13/16	3-9/16	5/8	6, 11

KS-14099 Sockets (A)

3	S-2410-CCE	2-3/8	3-1/8	9/16	6, 11
1	S-2412-CCE	2-13/16	3-9/16	5/8	6, 11

Notes:

(A) - Plugs and sockets in the 2400 series are slightly different in design but have approximately the same over-all dimensions as the 400 series. They have a higher voltage rating.

6 - Provided with a handle per Fig. 1, Page 23.

11 - The cover has a baked gray enamel finish.

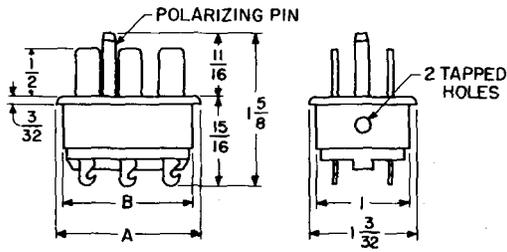
19 - Has cable clamp for 3/8-inch cable.

X-75500

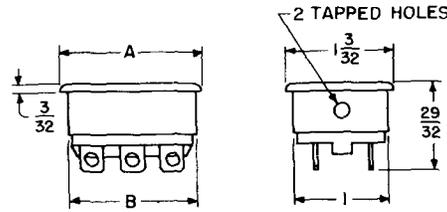
JONES TYPE PLUGS AND SOCKETS

2400-type  
(Less Bracket)

Plugs



Sockets



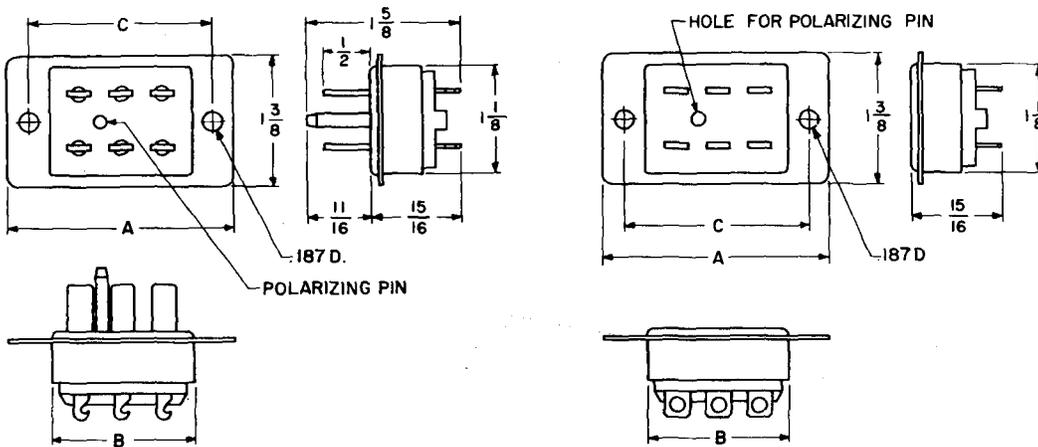
KS-14098 Plugs

<u>List No.</u>	<u>Type</u>	<u>A</u>	<u>B</u>	<u>C</u>
5	P-2410	2-13/32	2-5/16	

KS-14099 Sockets

5	S-2410	2-13/32	2-5/16	
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Shallow Bracket

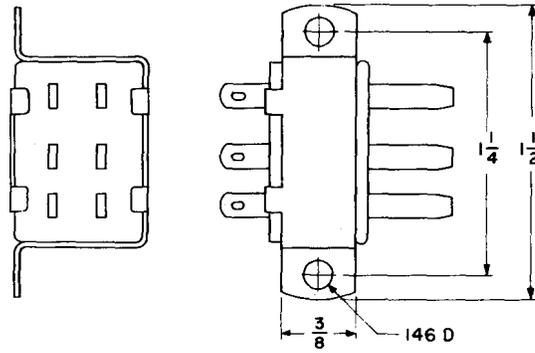


KS-14098 Plugs

3	P-2410-SB	3-1/4	2-9/16	2-13/16
1	P-2412-SB	3-11/16	3"	3-1/4

KS-14099 Sockets

4	S-2410-SB	3-1/4	2-9/16	2-13/16
2	S-2412-SB	3-11/16	3"	3-1/4



KS-8585, L20 Plug

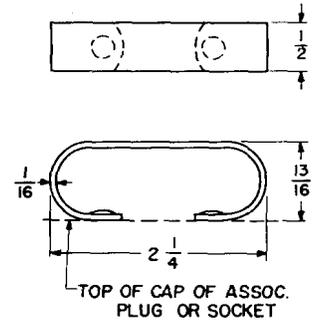
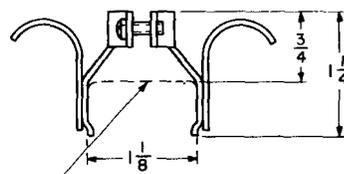
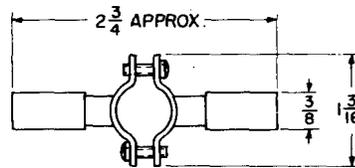


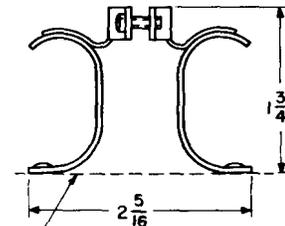
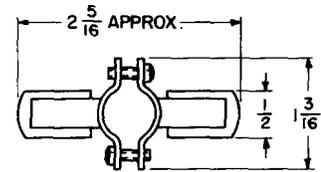
Fig. 1

X-75500



TOP OF CAP OF ASSOC.  
PLUG OR SOCKET

Fig. 2



TOP OF CAP OF ASSOC.  
PLUG OR SOCKET

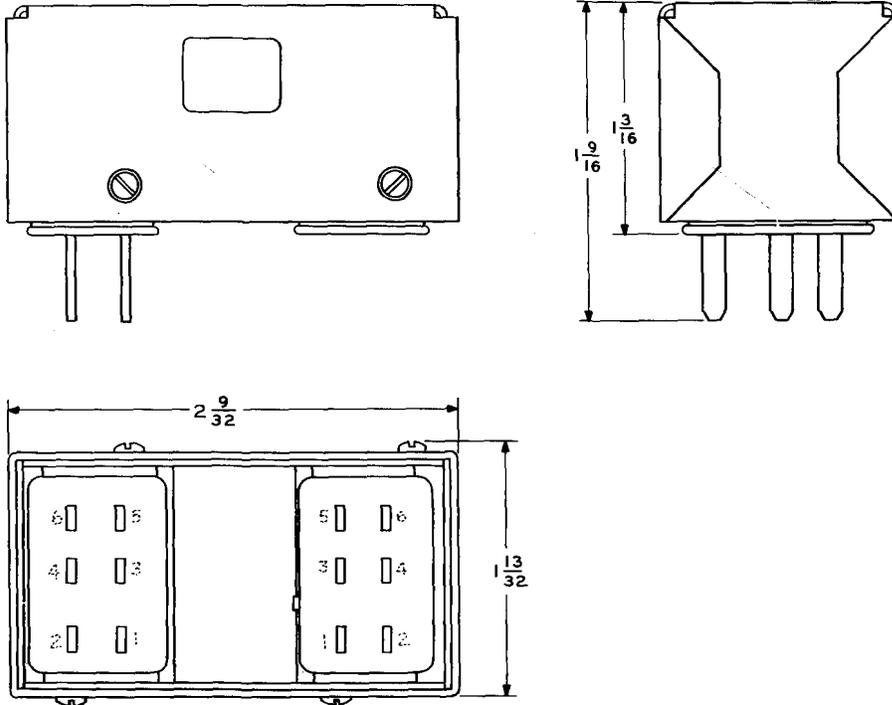
Fig. 3

JONES-TYPE PLUGS AND SOCKETS

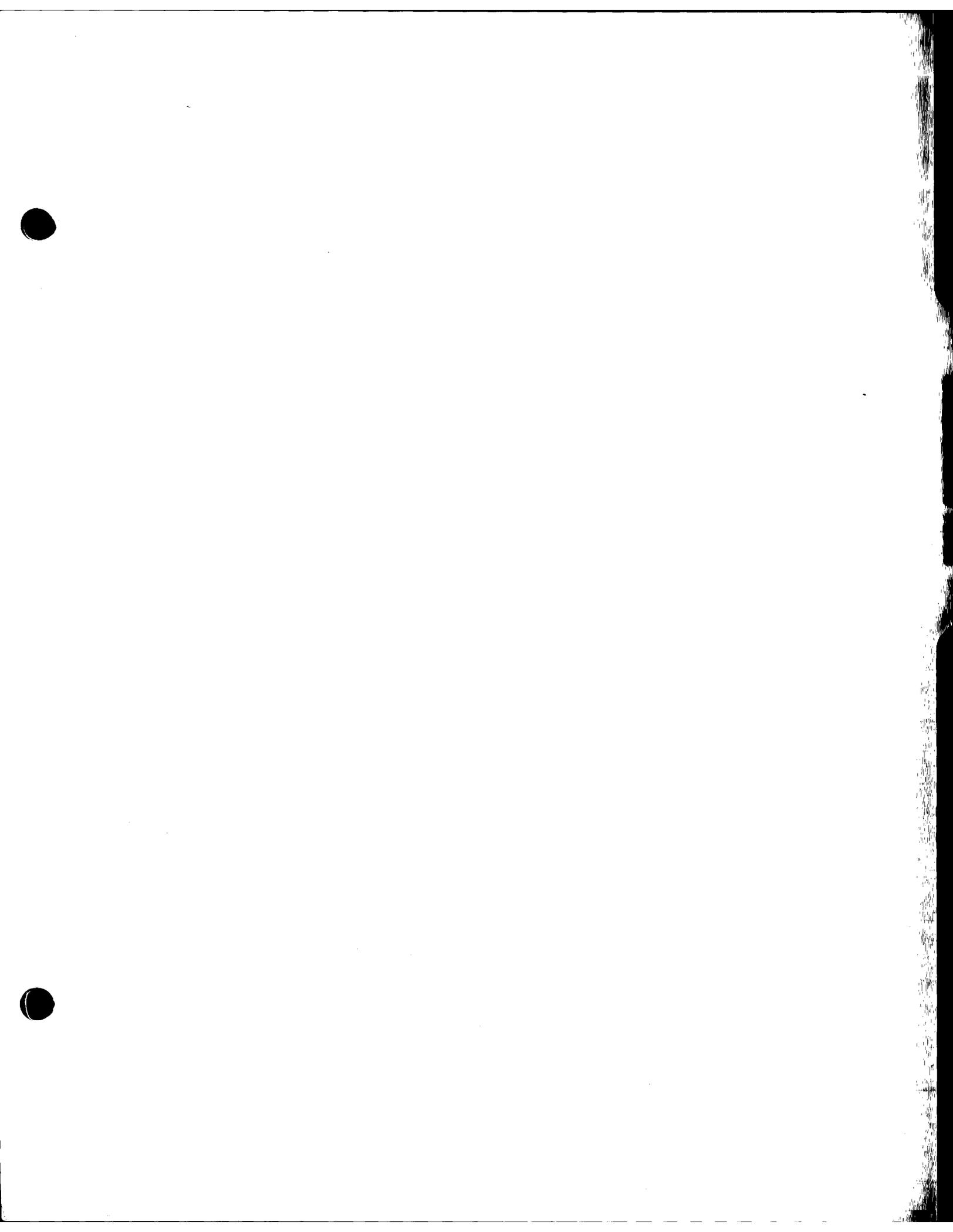
Paired Plug and Socket

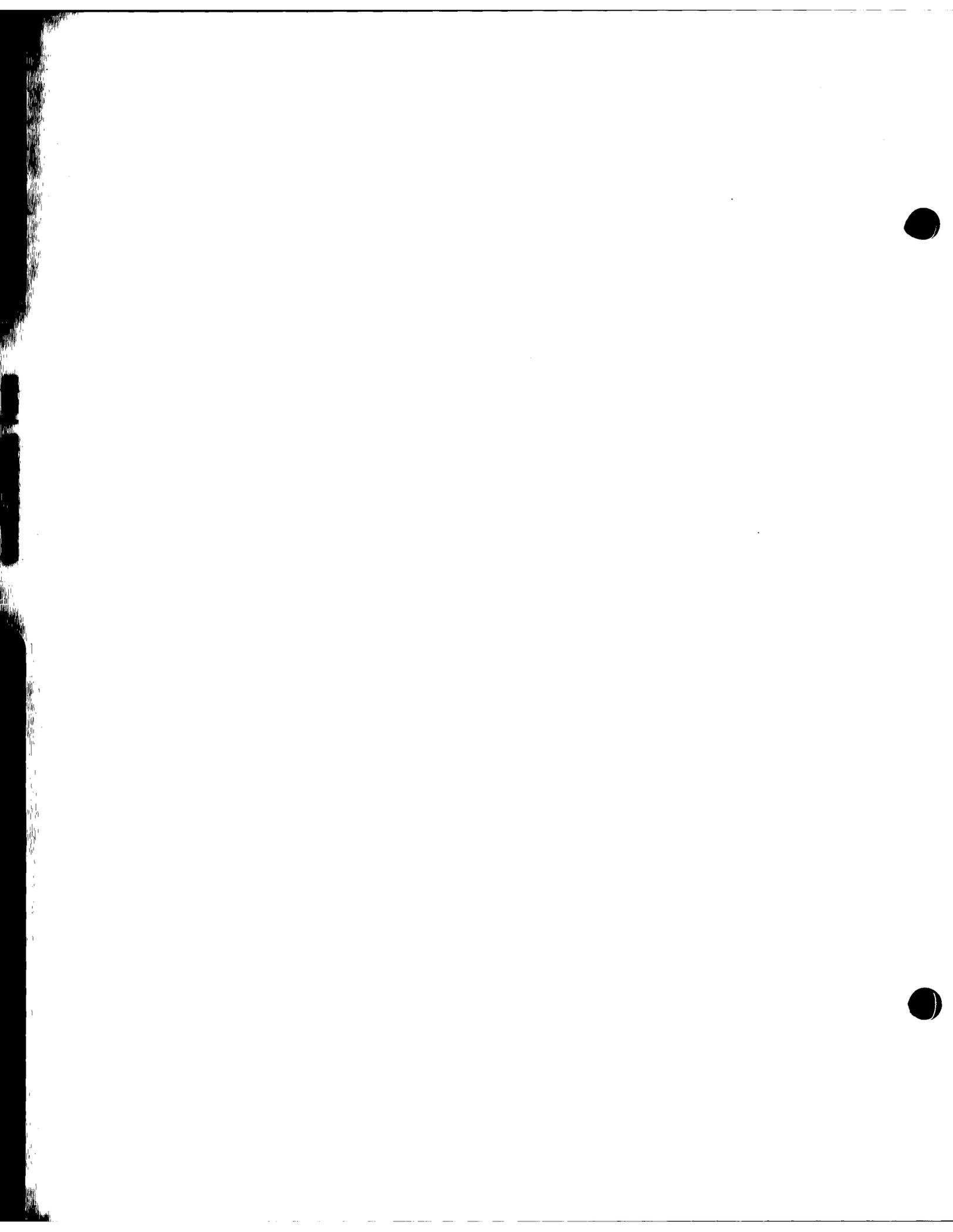
KS-14675 Connector

KS-14675 connector is primarily intended for use as part of the patching jack field of the J68349G initiator bay of automatic switching for the TD2 radio system. It consists of a KS-8585, L20 plug and a KS-8586 L12, socket mounted in a combination bracket and cover.



KS-14675





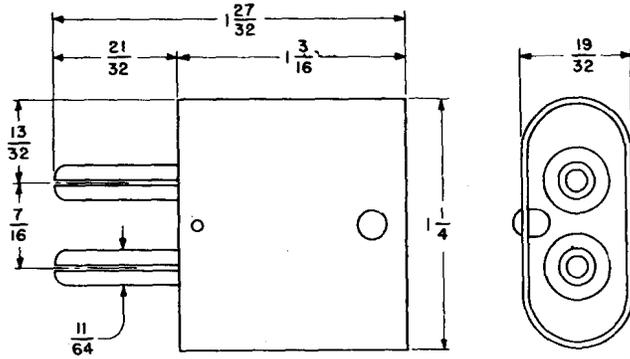
SECTION XIV  
MISCELLANEOUS PLUGS

X-75500

MISCELLANEOUS PLUGS

(P) No. 186 Plug

Twin plug consisting of two separately insulated plugs encased in a nickel-finished shell. Engages with jack of the No. 19C test set.



No. 186

Note:

(P) Preferred Code.

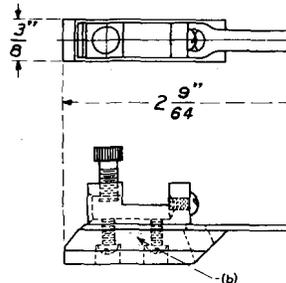
No. 24OJ Plug

For information see section on Multicontact Plugs.

(P) Nos. 251B, C, D, and E Plug

Used as a test connector for engaging the block ends of the tip and ring protector block springs on main frame protectors. Used with W4AC cord.

251B is stamped "TB"  
 251C is stamped "TG"  
 251D is stamped "RB"  
 251E is stamped "RG"



Nos. 251B, C, D, and E

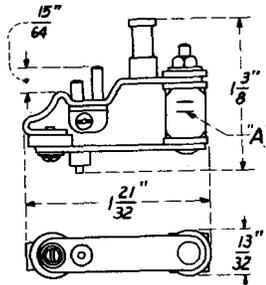
Note:  
 (P) Preferred Code.

X-75500

## MISCELLANEOUS PLUGS

### (P) Nos. 252A and (P) 252B Plugs

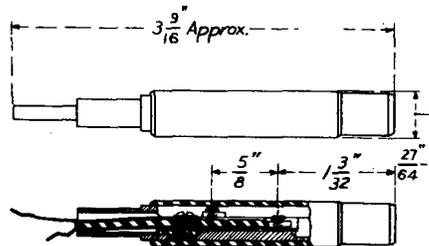
Used with the W4P, W4AG, and P4T cords as test plugs in connection with the protectors of main distributing frames for manual and dial offices. No. 252A has "T" and No. 252B has "R" stamped on both sides and located at "A" as indicated on the illustration.



Nos. 252A and B

### (P) Nos. 257A and (P) 257B Plugs

For use as test plugs to function with No. 141 jacks. A white line on the shell indicates side of plug to be uppermost when making tests. No. 257A is used in connection with those jacks having tip springs to the right. No. 257B is used when the tip springs are located on the left. Used with W2C cord.



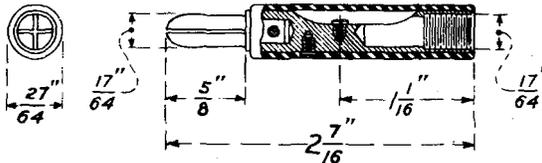
Nos. 257A and B

### Note:

(P) Preferred Codes.

(P) No. 263A Plug

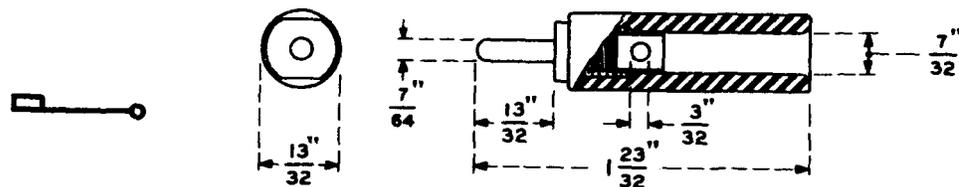
Used with holding time recorder. For use with No. 240A jack and MLP and S3A cords.



No. 263A

(P) No. 278A Plug

Intended for use in connection with the No. 5 toll test board. Used with the No. 399 jack. Equipped with a black knurled shell which unscrews, permitting soldered connections to a core. Used with the PIG and WLN cords.



No. 278A

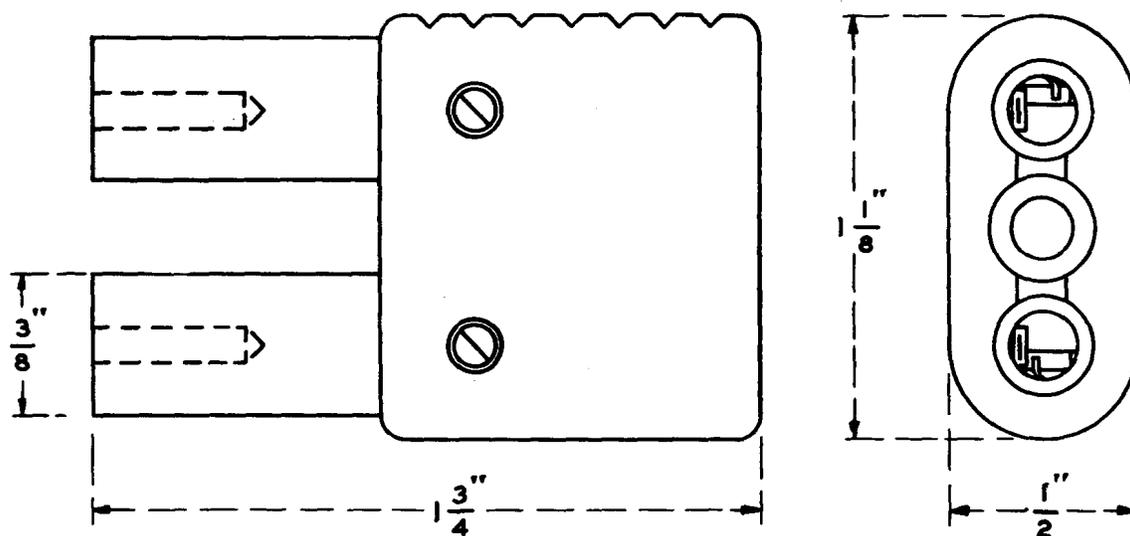
Note:

(P) Preferred Codes.

## MISCELLANEOUS PLUGS

### (P) No. 308A Plug

Twin plug for monitoring and testing in "K" type carrier telephone systems. Arranged to be inserted into the cord end of the No. 305A plug (See Section X) or pin end of the No. 312 plug (See Section XIII) for monitoring or bridging purposes. Used with the W3R and W3AB cords.



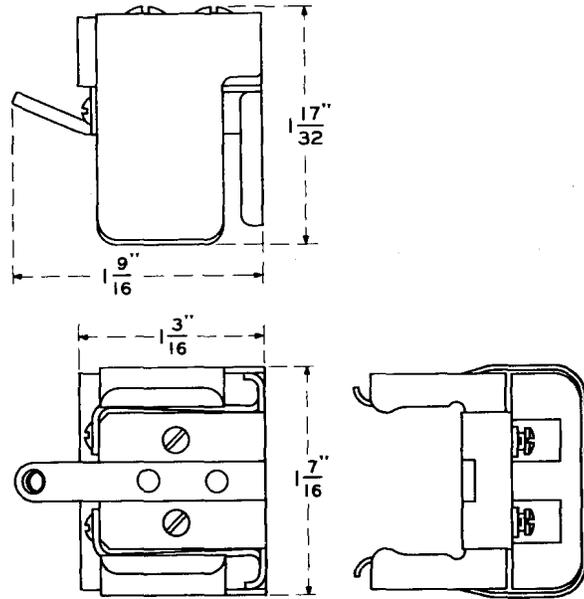
No. 308A

### (P) No. 314A Plug

Intended for use as a monitoring plug to bridge an instructor's telephone receiver on the receiver circuit of an attendant at a non-multiple PBX switchboard. Used with the L2K cord. Consists of two contact springs mounted on a block of insulating material. The springs make contact with the sleeve shoulders of attendant's plug. A spring clip is provided for attachment to the No. 289B plug.

#### Note:

(P) Preferred Codes.

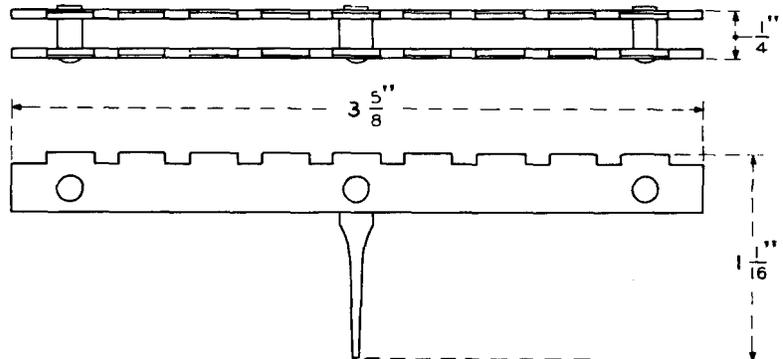


No. 314A

X-75500

(P) No. 318A Plug

Dummy plug of insulating material used with the 444-type jack.



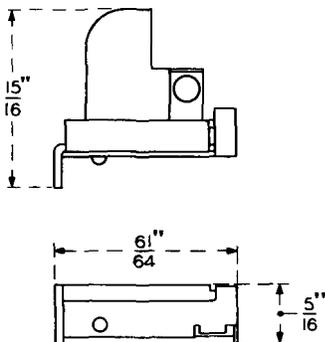
No. 318A

Note:  
(P) Preferred Code.

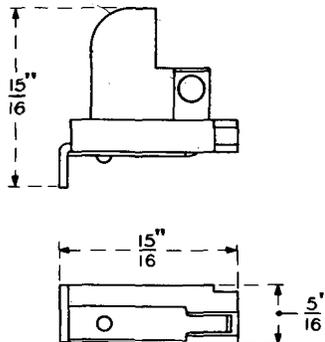
MISCELLANEOUS PLUGS

(P) Nos. 319C and (P) 319D Plugs

Dummy plugs of insulating material. Used in opening subscribers' lines to be temporarily disconnected from service. Provided with a spring for locking the plug in place. Designed so the jack springs may be tested with a test pick while the plug is in place. For use with the 444-type jack. The No. 319D plug is the same as the No. 319C except that it is nonlocking and the plug body is black.



No. 319C



No. 319D

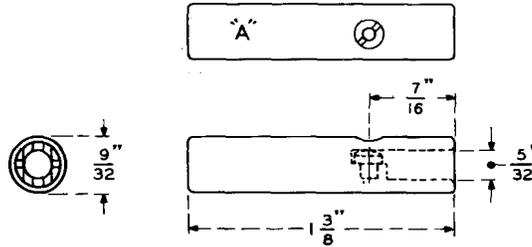
No. 330-type Plugs

Metal clip with a shell of black insulating material. Used with the W5B cord for connecting to the unwired ends of the terminals on No. 100 or similar type terminal strips.

Code No.	Engraved at "A"
(P) 330A	"+"
330B	"G"
(P) 330C	"S1"
(P) 330D	"S2"
(P) 330E	"S3"

Note:

(P) Preferred Code.

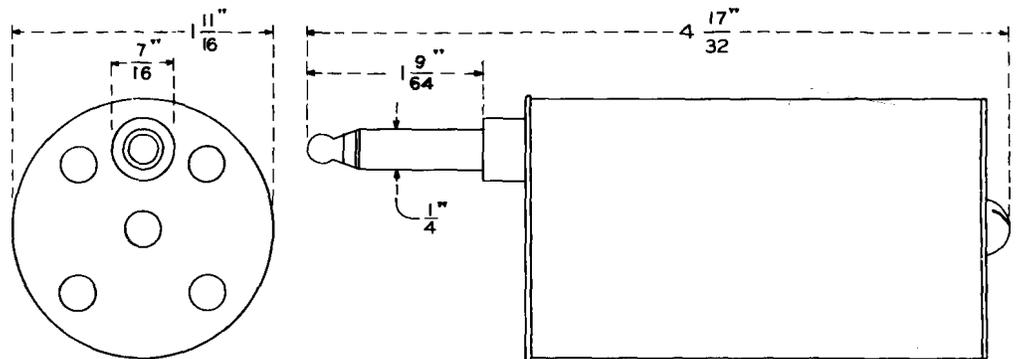


No. 330

(P) No. 336A Plug

Contains a KS-84770 resistance ( $90 \pm 3$  ohms) having one terminal connected to the tip of the plug. The other terminal is arranged for connection to a WLAE cord. The sleeve of the plug is not arranged for cord connection. Used with No. 40C test set and the No. 238 or similar type jack.

X-75500



No. 336A

Nos. 351C and D Plugs

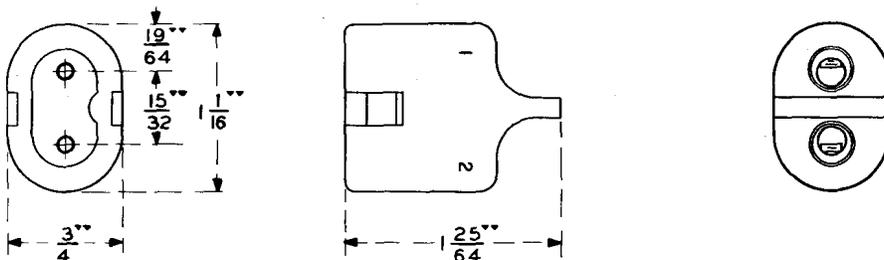
For information see section on Multicontact Plugs.

Note:  
(P) Preferred Code.

## MISCELLANEOUS PLUGS

### (P) No. 346A Plug

Polarized plug. Consisting of a black molded body equipped with two pin-type contacts. Each contact is designed to accommodate a 130 or similar cord tip secured by set screws. Used with No. 471A jack and H2A cord.



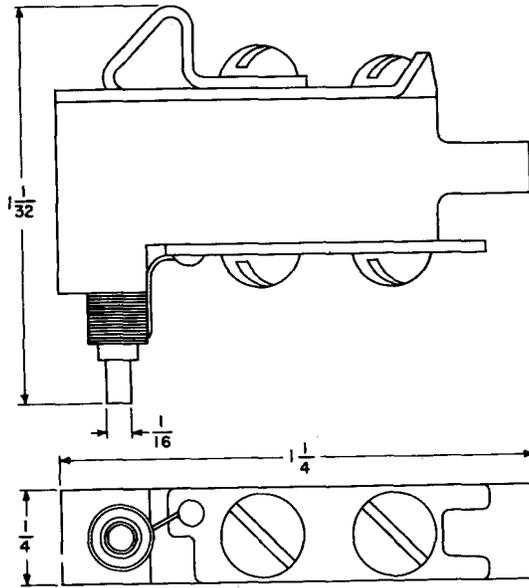
No. 346A

### (P) No. 352A Plug

Forms a part of the No. 356A plug. Consists of a block of insulating material containing a heat coil and equipped with terminals for making connections to the protector block spring and heat coil spring of No. C50 and similar type protector mountings. The heat coil unit when required for maintenance may be ordered as "P-226846" inner unit. Used with P2AY cord.

#### Note:

(P) Preferred Code.

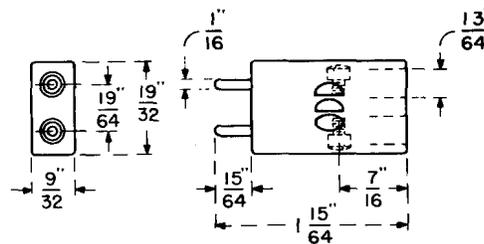


No. 352A

(P) Nos. 354A and (P) 354B

For use in connection with the voice-frequency amplifier in toll systems. Forms a part of the 4P21A cord. Each consists essentially of a block of black insulating material provided with two pin terminals at one end and arranged for a P4AD cord at the other end. No. 354B is the same as No. 354A except that it bears the marking "Even" instead of "Odd."

X-7550



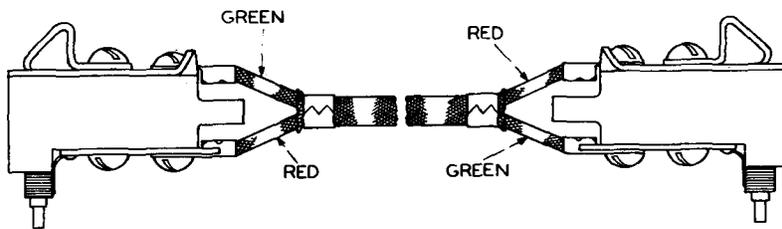
Nos. 354A and B

Note:  
(P) Preferred Code.

## MISCELLANEOUS PLUGS

### (P) No. 356A Plug

Used on central office protector mountings of the No. C50 or similar types to reverse the incoming lines of a cable pair in order to give temporary service when the ring side of the circuit has been accidentally grounded. Consists of a P2AY cord equipped with a No. 352A plug at each end.



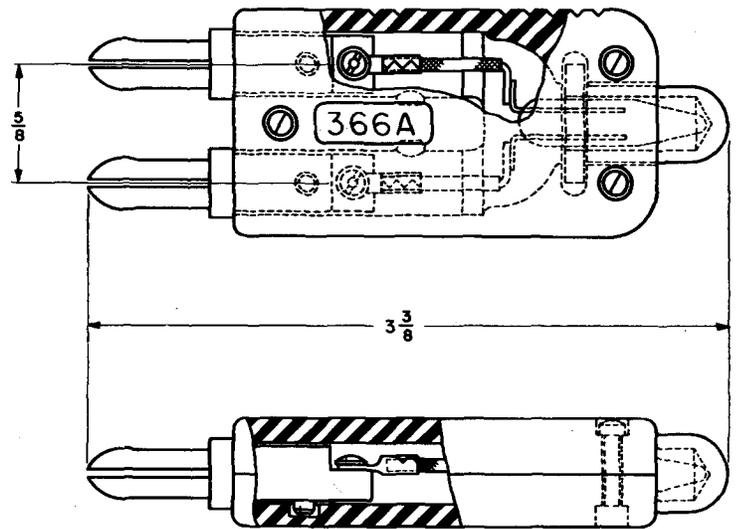
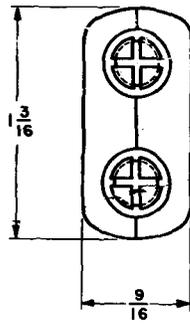
No. 356A

### (P) No. 366A Plug

Twin plug consisting of two metal fingers mounted in a molded shell of insulating material. The shell is notched along one edge for identification purposes. Each finger provides sleeve contact only and a neon lamp is connected across the plug fingers. This lamp is in a recess provided for it at the heel of the plug and is protected by a transparent cap. Arranged to function with No. 218 or similar type jacks mounted on 5/8 inch centers. Intended for use in the 9B telegraph service board as a means of detecting "hits" in the circuit.

#### Note:

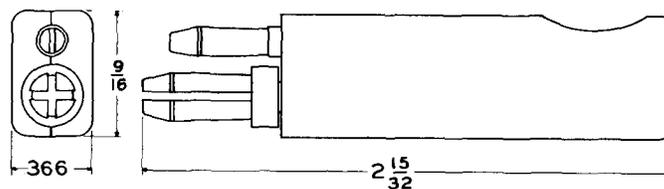
(P) Preferred Code.



No. 366A

(P) No. 367A Plug

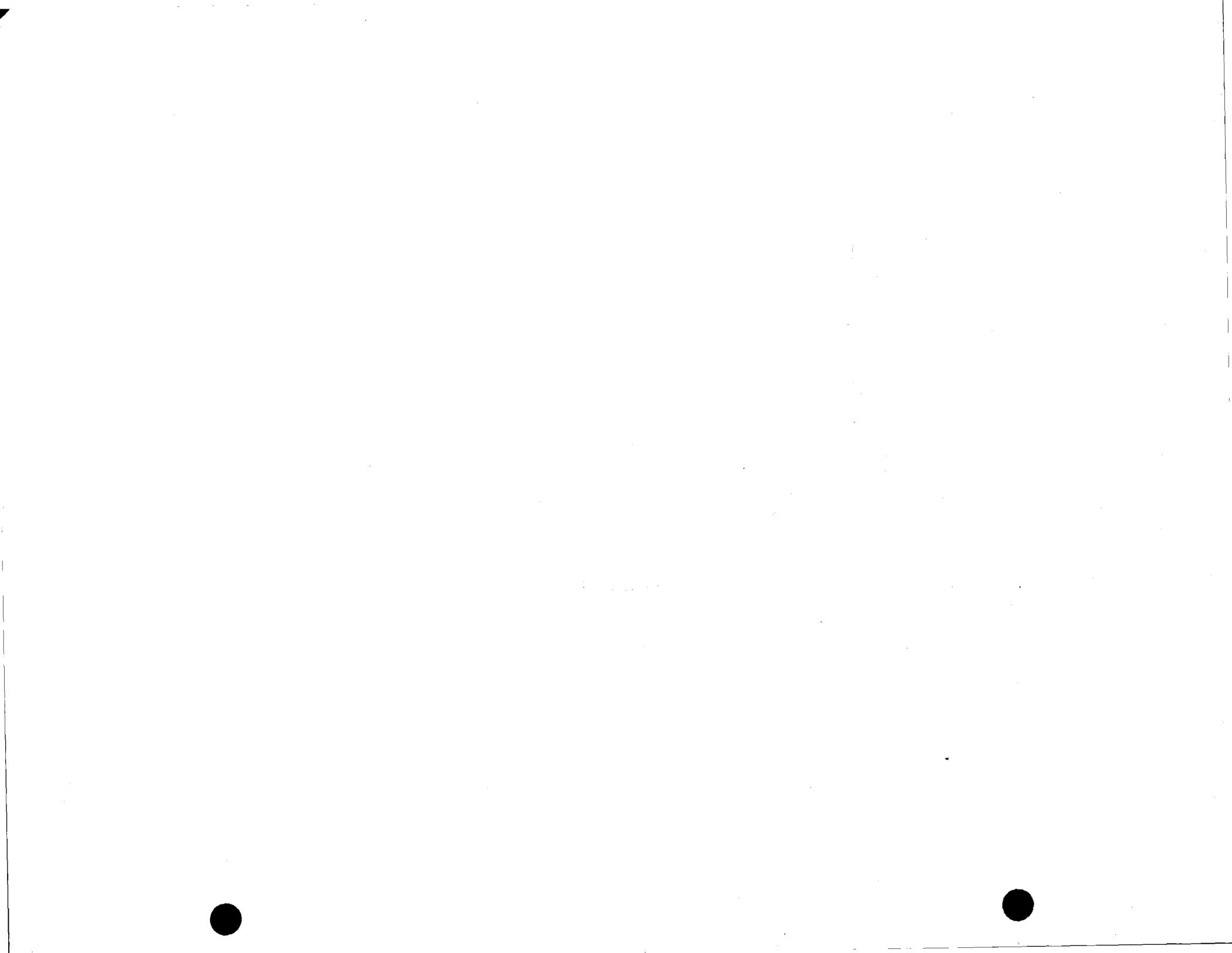
For use with the No. 247A jack mounting in the No. 2 telegraph service board to take a line out of service. Not arranged for cord connection. One finger is designed to make contact with the sleeve only of a No. 92 jack, while the other which is shorter is designed to make contact with the grounding strip of the No. 247A jack mounting. The fingers are strapped together internally.



No. 367A

Note: (P) Preferred Code.

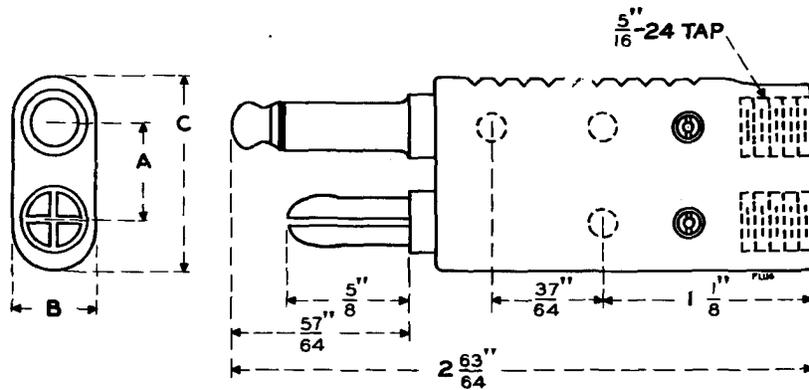
X-75500



Nos. 382A and 383A Plugs

Twin plugs each having a black shell of insulating material. The long finger is arranged for ring and sleeve connections to a No. 141-type jack and the short finger is arranged for sleeve connection to a No. 240A jack. No. 382A is used on No. 2 telegraph service board. No. 383A is used on No. 9B telegraph service board. They are used with S2B and S3A cords.

Code No.	Dimensions (Inches)		
	A	B	C
382A	1/2	27/64	1
383A	5/8	19/32	1-3/16



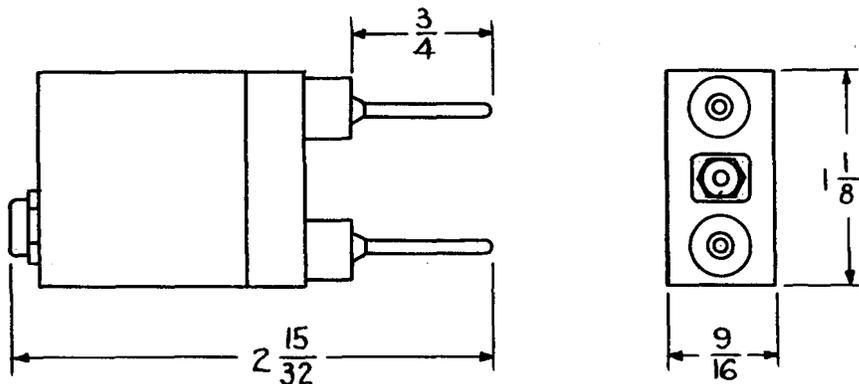
Nos. 382A and 383A Plugs

X-75500

# MISCELLANEOUS PLUGS

## (P) No. 395A Plug

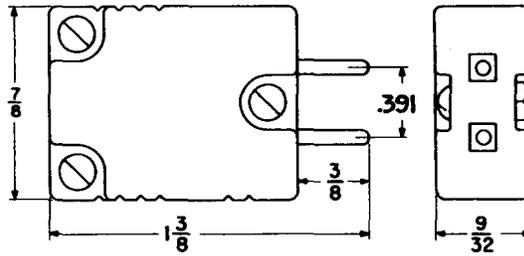
Twin plug having a base and cover of insulating material. Base has two pin terminals arranged to be inserted into a pair of KS-14523 connectors mounted on  $\frac{3}{4}$  inch centers. Cover is provided with a KS-14523, L2 connector. Intended for use in aligning and checking circuits of J44105 amplifiers of the A2A and A2B video transmission systems.



No. 395A Plug

KS14520 Plug

This plug has two gold-plated terminals 0.090 inch in diameter. It is intended for use in a 2600 cycle single-frequency signaling system in toll systems. This plug will mate with any of the KS14519 jacks. It is used with the P2BM, P2BN, W2DS, and W2DY cords.



KS14520

