Backboard, 165A

BACKBOARDS

IDENTIFICATION AND INSTALLATION

1. GENERAL		Backboard, 166A	10
		Backboard, 168D*	11
1.01 This section provides information	on common	Backboard, 168E*	12
use backboards and related device	ces. Refer	Backboard, 168F*	13
to Division 506 for information on back	boards for	Backboard, 169A (MD)	14
coin collectors and coin telephone sets.		Backboard, 171A	15
		Backboard, 172C* (MD)	16
1.02 This section is reissued to:		Backboard, 173A	17
		Backboard, 173B	18
 Add 198A backboard (Fig. 37) 		Backboard, 176A	19
		Backboard, 177A	20
• Rate the 191C-59, -61, and -64 l	backboards	Backboard, 180A	21
MD (Table A).		Backboard, 181A	22
		Cover, Screen, D-180313	22
2. IDENTIFICATION		Backboard, 182B*	23,24
		Backboard, 183A1, A2,	25
2.01 The purpose of these backboards is	to provide	A4, or A5†	
adequate mounting surfaces for the		Backboard, 183B1, B2,	26
of telephone sets, connecting blocks, as		B3, B4, or B5†	
other apparatus.		Backboard, 184A1†	27
		Backboard, 184B1†	28
2.02 When terminating and cross-connection	cting cables	Backboard, 184B2†	29
on customer premises, especially		Backboard, 185A1†	30
buildings, it is recommended that the		Backboard, 186A†	31
installed in these locations be standardiz		Backboard, 187B1†	32
backboards are now available in several		Backboard, 188A1 (MD)	33
colors and should follow the color scl		Backboard, 188B1	34
outlined in Section 518-010-101.	nome prom	Backboard, 191C*	35
		Backboard, 197A	36
2.03 Ordering Guide:		Backboard, 198A	37♠
		Backboard, KS-5796, L1 or L7	38
CODE NO.	FIG. NO.	Backboard, KS-5796, L2 or L8	39
	110.100.	Backboard, KS-5796, L3 or L9	40
Backboard, 79	1	Assembly, Backboard, ED-69368-50,	41
Backboard, 81	2	Group 1	
Backboard, 147A	3	Trough, Wiring, 840348288	42
Backboard, 154A	4		
Backboard, 155A (MD)	5		
Backboard, 156A (MD)	6		
Backboard, 163A	7	* Add desired color code selected from Table .	A.
Backboard, 164A	8		

NOTICE

Not for use or disclosure outside the Bell System except under written agreement

† Refer to appropriate figures for size and color information.

2.04 Color:

PTABLE A

COLOR ORDERING GUIDE

		1	BACKE	BOARD	
CODE	COLOR	168D, 168E, 168F	172C*	182B	191C
-03	Black		•	•	•
-49	Light Olive Gray				
-50	Ivory		0	•	•
-51	Green		•		•
-53	Red	-	•		•
-56	Yellow			•	•
-58	White		•	•	•
-59	Rose Pink		•	•	*
-60	Light Beige		•	•	•
-61	Light Gray		•	•	*
-62	Aqua Blue	4	4-14	•	•
-64	Turquoise			•	*

^{*} MD

3. INSTALLATION

- 3.01 Use colored backboards on customer premises where installations are to be standardized according to the color plan. In other applications, employ backboards for mounting apparatus or equipment only when one or more of the following conditions exist:
 - Mounting surface is uneven.
 - · Mounting surface is damp.
 - A secure mounting could not be obtained otherwise.
 - It is necessary to insulate special apparatus from current-conducting surfaces.

- It is necessary to avoid drilling too many holes.
- 3.02 Backboards used on customer premises where standardization is important should follow the color scheme plan in Section 518-010-101 where all central office cables terminate on the same color backboards, key equipment on same color, etc, regardless of terminating area terminal room, apparatus closet, etc.
- **3.03** Locating: Location of a backboard is dependent upon apparatus to be mounted thereon; however, select a location which will not expose craft personnel or equipment to injury or damage.

3.04 Installing:

- (a) Refer to Table B for proper fastening device and quantity to be used for each backboard dependent upon:
 - Type of surface
 - · Strength and rigidity of base material
 - · Weight to be supported.
- (b) Refer to appropriate section on attachments and fasteners in 080 Division for method of installing fasteners.

Note: When fasteners extend into or through a surface, avoid damaging existing equipment and wiring.

- (c) When a particular backboard is not listed in Table B, refer to backboard most similar for mounting information.
- (d) If existing mounting holes in backboards do not align when securing mounting, drill additional holes with proper tools.
- (e) If backboards are located on an uneven surface, shim to obtain a firm mounting. Use fasteners 1/2-inch longer than specified in Table B.
- (f) Backboards located outdoors should be secured with rust-proof fasteners such as galvanized screws or bolts.
- (g) If backboard must be mounted on a finely finished surface, such as glazed tile or marble which would be expensive to repair, consult supervisor and obtain instructions before proceeding.
- (h) When backboard is mounted on plaster on wood lath, all screws must enter laths or studding (see Fig. 3).
- When mounting buzzer on wooden backboards, countersink backboard mounting screws to prevent screwheads from contacting buzzer base (see Fig. 8).
- (j) The B beam clip and the B insulator support can be installed on I beams and angle irons 1/8- to 1/2-inch thick to fasten backboards at

indoor locations. The B beam clip will accept a 10-24 or a 1/4-20 size screw. The B insulator support will accept a 10-24 screw. (See Fig. 43, 44, and 45.)

- (k) Holes designated by bosses (Fig. 24) on the rear of a 182B or 191C backboard must be drilled to permit mounting 500-type wall sets. Use an 11/64-inch drill bit when drilling the bosses.
- A small section of the thin wall at the top or bottom edge of the 182B or 191C backboard may be broken out to allow entry of inside wiring (Fig. 24).
- (m) The telephone set is not fastened to a 182B or 191C backboard; instead, the backboard is held in place by the fasteners which support the telephone set.

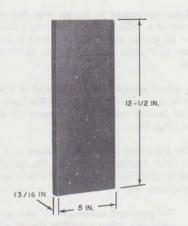


To prevent damage to line switch assembly when installing set on a 182B or 191C backboard:

- Place fasteners through backboard into supporting surface.
- Run up threads until head of fastener is 1/16-inch from backboard.
- Place the telephone set on fasteners using keyhole slots.
- Support screwdriver and tighten fasteners (Fig. 46).

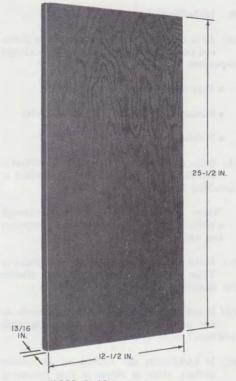
3.05 Removing:

- (a) Carefully remove all wire, screws, bolts, and other fasteners used in mounting backboard.
- (b) In case backboard tends to stick to wall after fasteners have been removed, press palm of one hand tightly against backboard and tap upper end of backboard with a hammer.
- (c) Whenever it is necessary to leave a backboard in place, remove all fasteners which hold the apparatus to the backboard. This prevents the possibility of personnel injury, damage to furniture, etc.



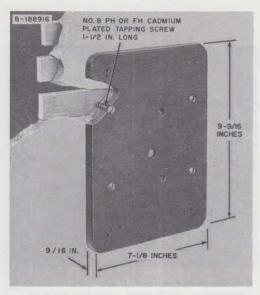
- WOOD, BLACK
- MOUNTS ONE 58-, 98-, OR IO6-TYPE STATION PROTECTOR, OR TWO IIIA STATION PROTECTORS

Fig. 1—79 Backboard



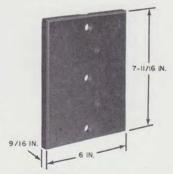
- WOOD, BLACK
- MOUNTS FIVE 58-, 98-, OR IO6-TYPE STATION PROTECTORS

Fig. 2-81 Backboard



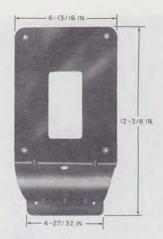
- WOOD, GRAY
- MOUNTS A J86205H RECTIFIER, 634-, OR 653-TYPE SUBSCRIBER SET

Fig. 3—147A Backboard Mounted on Plaster and Lath



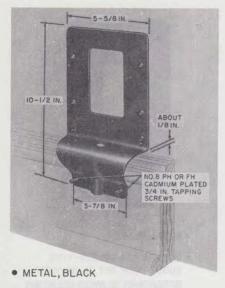
- WOOD, GRAY
- MOUNTS 584-, 684-, 685-, 686-, OR 687-TYPE SUBSCRIBER SET ON WALL OR OVER AN OUTLET

Fig. 4-154A Backboard



- METAL, BLACK
- MOUNTS 534-OR 634-TYPE SUBSCRIBER SET ON WOODEN BASEBOARD TO AVOID MOUNTING ON MASONARY OR TILE
- SCREWS PROVIDED

Fig. 5—155A (MD) Backboard



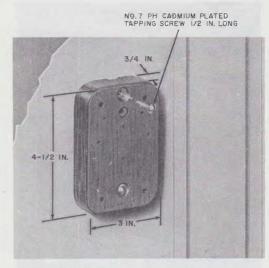
- MOUNTS 584-OR 684-TYPE SUBSCRIBER SET ON WOODEN BASEBOARD TO AVOID MOUNTING ON MASONRY OR TILE
- SCREWS PROVIDED

Fig. 6—Mounting 156A (MD) Backboard on Wooden
Baseboard



- · PHENOL FIBER, GRAY
- MOUNTS 14A- OR 20A-TYPE INDICATOR
- SCREWS PROVIDED FOR MOUNTING INDICATOR AND BACKBOARD

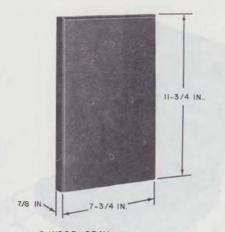
Fig. 7—163A Backboard



- WOOD, BLACK
- MOUNTS C- OR G-TYPE HAND TELEPHONE SET MOUNTINGS, OR 7-TYPE BUZZERS AND BELLS ON OTHER THAN WOOD SURFACES
- REPLACES 157A BACKBOARD

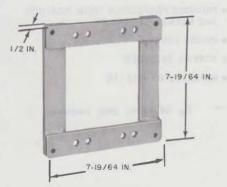
Fig. 8—164A Backboard Mounted on Metal Panel





- WOOD, GRAY
- MOUNTS KS-5250, J86205A OR B RECTIFIERS, OR 50-TYPE RECORDER CONNECTOR

Fig. 9—165A Backboard



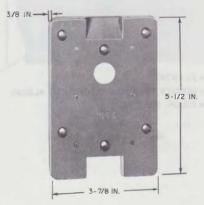
- METAL, GALVANIZED
- MOUNTS 320-TYPE TELEPHONE SET
- BOLTS PROVIDED

Fig. 10-166A Backboard



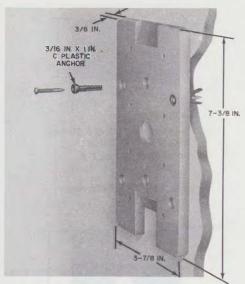
- PLASTIC
- MOUNTING ONE 42 A OR 44A CONNECTING BLOCK
- COLOR, SEE TABLE A

Fig. 11—168D Backboard



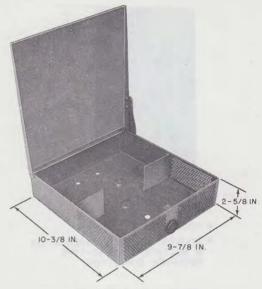
- PLASTIC
- MOUNTS TWO OR THREE 44A CONNECTING BLOCKS
- . COLOR, SEE TABLE A

Fig. 12-168E Backboard



- PLASTIC
- MOUNTS FOUR 44A CONNECTING BLOCKS
- · COLOR, SEE TABLE A

Fig. 13-168F Backboard



- METAL, STEEL GRAY
- . MOUNTS 592-TYPE SUBSCRIBER SET
- PROVIDES PROTECTION FROM WEATHER AND MECHANICAL INJURY
- . HINGED COVER
- SCREWS PROVIDED
- REPLACED BY 181A-49

Fig. 14—169A (MD) Backboard

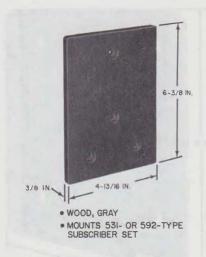
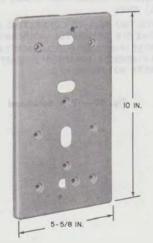


Fig. 15-171A Backboard



- PLASTIC
- MOUNTS 354-, 356-, 357-, 554-, 556-, OR 558-TYPE WALL TELEPHONE SET
- SCREWS PROVIDED
- COLOR, SEE TABLE A

Fig. 16—172C (MD) Backboard

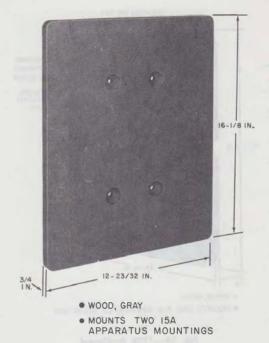
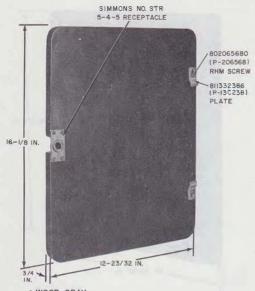
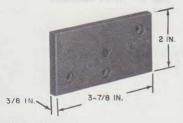


Fig. 17-173A Backboard



- WOOD, GRAY
- MOUNTS ONE 31A APPARATUS MOUNTING

Fig. 18—173B Backboard



- WOOD, GRAY
- MOUNTS SMALL MISCELLANEOUS APPARATUS SUCH AS JACKS, BUZZERS, INDICATORS, AND KEYS

Fig. 19-176A Backboard



- METAL, (EARLY MODEL) FIBER GLASS (CURRENT MODEL) GRAY
- MOUNTS TWO 66BI-25 CONNECTING BLOCKS, AND ONE 31B APPARATUS MOUNTING USING A 8II333095 (P-I5C309) HINGED BRACKET ASSEMBLY AND A 8I4863056 (P-48F305) BRACKET ASSEMBLY. BRACKETS NOT FURNISHED.

Fig. 20-177A Backboard

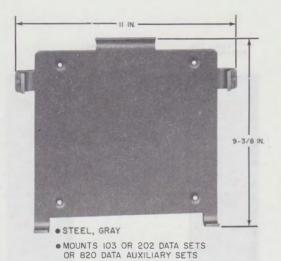
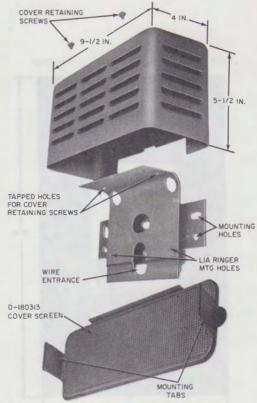
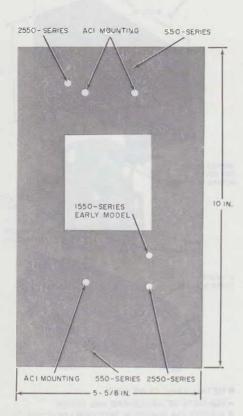


Fig. 21—180A Backboard



- METAL, LIGHT OLIVE GRAY
- . CONSISTS OF BACKBOARD AND COVER
- MOUNTS LIA RINGER IN OUTDOOR LOCATIONS
- OPTIONAL EQUIPMENT-COVER SCREEN FOR PROTECTION AGAINST BIRDS AND INSECTS, ORDER SEPARATELY

Fig. 22—181A Backboard, Exploded View



- PLASTIC 9/32 -IN. THICK
- MOUNTS 550-2550-SERIES WALL SET, OR ACI TELEPHONE BASE
- MAY BE USED TO MASK UNSIGHTLY WALL CONDITIONS EXITING WHEN LARGER WALL SETS ARE REPLACED BY SMALLER SETS

Fig. 23—182B Backboard

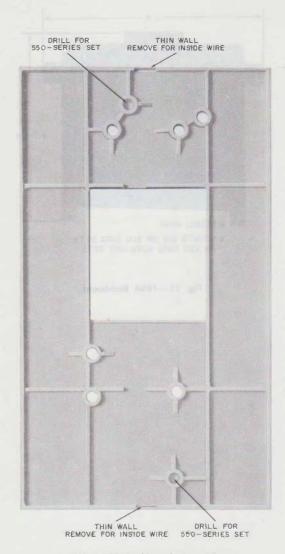
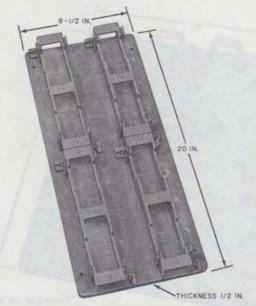
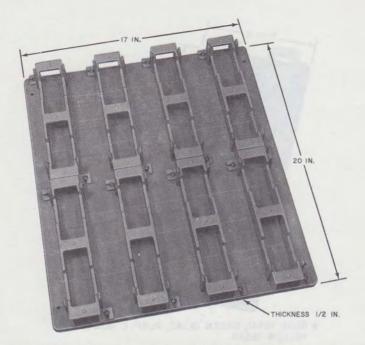


Fig. 24-182B Backboard, Rear View



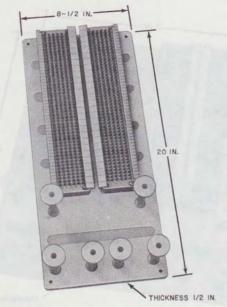
- BLUE 183AI, GREEN 183A2, PURPLE 183A4, YELLOW 183A5.
- CONSISTS OF METAL BOARD AND FOUR
 PLASTIC 89B BRACKETS SECURED BY
 TWO SCREWS EACH.
- MOUNTS FOUR 66-TYPE CONNECTING BLOCKS ORDERED SEPARATELY.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 518-010-101.

Fig. 25—183A1, A2, A4, or A5 Backboard



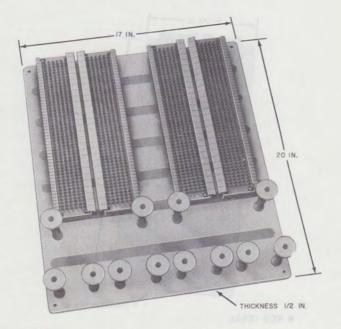
- BLUE 183BI, GREEN 183B2, RED 183B3, PURPLE 183B4, YELLOW 183B5.
- CONSISTS OF METAL BOARD AND EIGHT PLASTIC 89B BRACKETS SECURED BY TWO SCREWS EACH.
- MOUNTS EIGHT 66-TYPE CONNECTING BLOCKS, ORDERED SEPARATELY.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 518-010-101.

Fig. 26-183B1, B2, B3, B4, or B5 Backboard



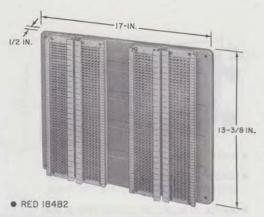
- RED 184AI.
- CONSISTS OF METAL BOARD, TWO 66B4-25 CONNECTING BLOCKS, AND SIX 834372377 (P-43X237) DISTRIBUTING RINGS.
- USEFUL IN MODULAR CONNECTING BLOCK
 ARRANGEMENT FOR TERMINATING AND
 CROSS CONNECTING ON CUSTOMER'S
 PREMISES, REFER TO SECTION 518-010-101.

Fig. 27—184A1 Backboard



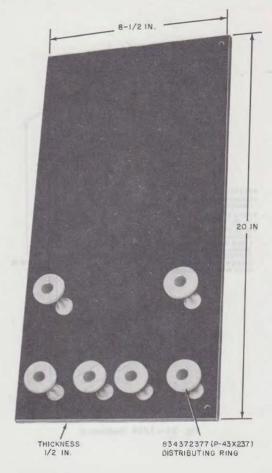
- RED 184BI.
- CONSISTS OF METAL BOARD, FOUR 6684-25 CONNECTING BLOCKS, AND TWELVE 834372377 (P-43 X237) DISTRIBUTING RINGS.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 518-010-101.

Fig. 28-184B1 Backboard



- CONSISTS OF METAL BOARD AND FOUR 66B4-25 CONNECTING BLOCKS.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 518-010-101.

Fig. 29-184B2 Backboard



- WOOD, YELLOW
- CONSISTS OF A BOARD AND SIX DISTRIBUTING RING ASSEMBLIES SECURED BY ONE SCREW EACH
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES REFER TO SECTION 518-010-101

Fig. 30-185A1 Backboard

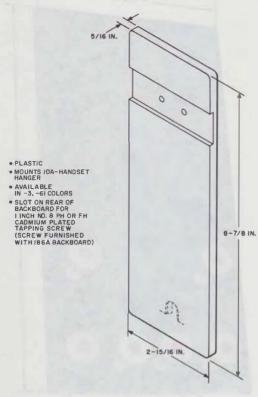
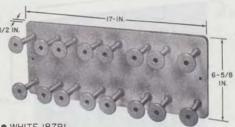
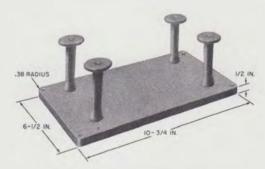


Fig. 31-186A Backboard



- WHITE 187BI
- CONSISTS OF WOOD BOARD AND SIXTEEN 834372377 (P-43 X 237) DISTRIBUTING RINGS
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 518-010-101.

Fig. 32-187B1 Backboard



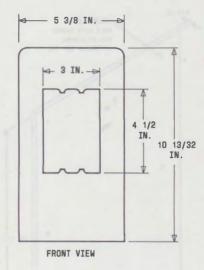
- . WHITE STAMPED METAL PANEL WITH FOUR 834372377 (P-43 X 237) DISTRIBUTING RINGS
- USED WITH 88-TYPE MODULAR CONNECTING BLOCKS TO RETAIN CROSS-CONNECT WIRES

Fig. 33-188A1 (MD) Backboard



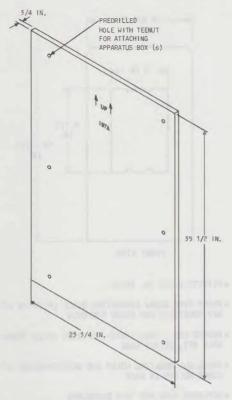
- WHITE STAMPED METAL PANEL WITH TWO 842139248 (COMCODE) DISTRIBUTION RINGS
- USED WITH 88 TYPE MODULAR CONNECTING BLOCKS TO RETAIN CROSS-CONNECTING WIRES.

Fig. 34-188B1 Backboard



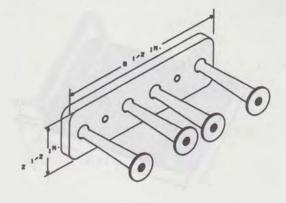
- PLASTIC 0.235 IN. THICK
- SNAPS OVER 630A4 CONNECTING BLOCK (PLUG-IN WALL SET MOUNTING) FOR DECOR PURPOSES
- MOUNTS 550-, EARLY 1550-, DR 2550-SERIES MODULAR WALL SET, DR AC1 BASE
- KNOCK-OUT MOUNTING HOLES AND CORRESPONDING SET CODES MOLDED IN BACK
- REPLACES 182B AND 191B BACKBOARD
- COLOR, SEE TABLE A

Fig. 35-191C Backboard



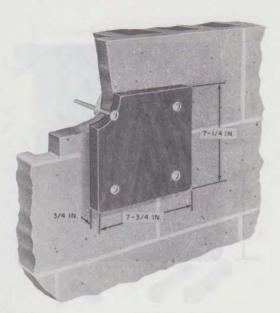
- . WOOD, LIGHT OLIVE GRAY
- INTENDED FOR WALL MOUNTING OF 121-TYPE
 APPARATUS BOX
- INCLUDES SIX SCREWS FOR ATTACHING APPARATUS
 BOX TO BACKBOARD
- WALL MOUNTING HOLES MUST BE DRILLED AND COUNTERSUNK BY INSTALLER
- . MOUNT ON WALL WITH AT LEAST SIX FLATHEAD SCREWS

Fig. 36-197A Backboard



- · STEEL PANEL, WHITE FINISH
- FOR CROSS-CONNECT WIRE WHERE MODULAR PANELS ARE STACKED VERTICALLY

Fig. 37-\$198A Backboard\$



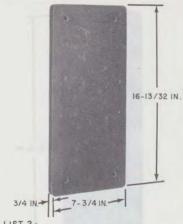
LIST I

- · WOOD, BLACK
- . MOUNTS ONE 105A APPARATUS BOX
- REPLACES 160A

LIST 7

- WOOD, BEIGE GRAY
- MOUNTS ONE 105B APPARATUS BOX

Fig. 38—KS-5796, List 1 or List 7 Backboard Mounted on Cinder Block



LIST 2:

- . WOOD, BLACK
- . MOUNTS TWO 105A APPARATUS BOXES
- REPLACES IGIA

LIST 8:

- . WOOD, BEIGE-GRAY
- . MOUNT TWO 105B APPRATUS BOXES

Fig. 39—KS-5796, List 2 or List 8 Backboard

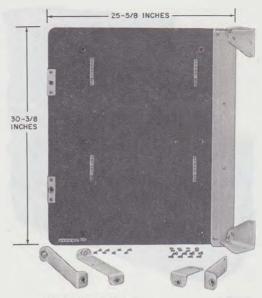


- WOOD, BLACK
 - MOUNTS THREE 105A APPARATUS BOXES
 - REPLACES 162A

LIST 9

- . WOOD, BEIGE-GRAY
- MOUNTS THREE 105B APPARATUS BOXES
- REPLACES A-2857

Fig. 40—KS-5796, List 3 or List 9 Backboard



- . WOOD, LIGHT OLIVE GRAY
- MOUNT ONE 26A APPARATUS MOUNTING AND ONE ED - 69366 - 50, G3 TERMINAL PLATE ASSEMBLY
- CAN BE EQUIPPED WITH ED-69368-50, G2 COVER

Fig. 41—ED-69368-50, Group 1 Backboard Assembly

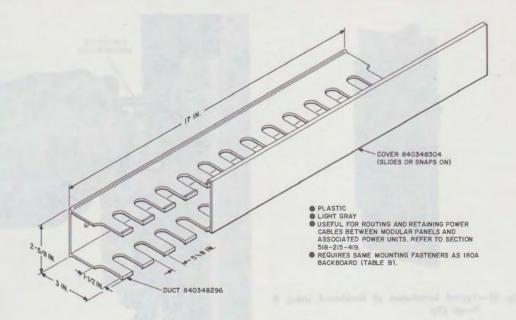


Fig. 42-Wiring Trough, 840348288

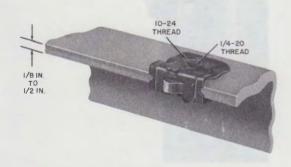


Fig. 43—B Beam Clip Mounted on Angle Iron



Fig. 44—B Insulator Support



Fig. 45—Typical Installation of Backboard Using B Beam Clip

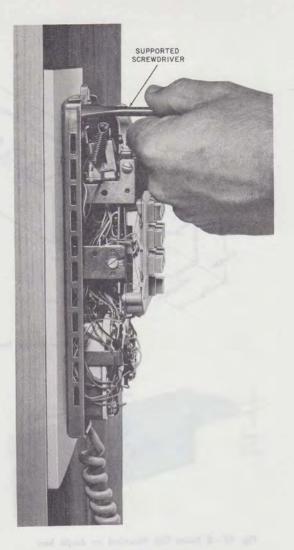


Fig. 46—Tightening Fasteners Which Support Telephone Set and 182B or 191C Backboard

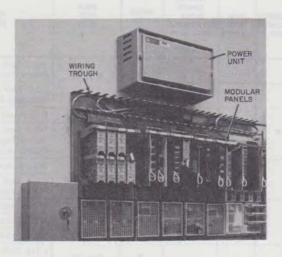


Fig. 47—Typical Installation of 840348288 Wiring Trough (Cover Removed)

TABLE B
FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD	71-		MOUN	ITING SUR	ACES			FASTENERS	
TYPE	SOFT- WOOD	HARD- WOOD	MASONRY * (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQD	SIZE AND TYPE (NOTE 2 AND 3)	QTY INOT
	•						3/32 or	1-1/2 Inch No. 8 FH Cadmium Plated Tapping Screw	
		•		-			No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 6	
79,			•				3/16	1-1/2 Inch No. 8 FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
81							1/4	Wall Screw Anchor, 1/4 Inch	4
				•			3/32 or No. 33	1-1/2 Inch No. 8 FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 8	
					•		1/4	Wall Screw Anchor, 1/4 Inch	
							1/2	1/8- by 4-Inch BH Toggle Bolt	
						•	No. 33	1-1/4 Inch No. 8 Self-Tapping Screw	
	•						3/32 or	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•					No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 5	4
			•				3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
147							1/4	Wall Screw Anchor, 1/4 Inch	
154				•			3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 6	
					•		1/4	Wall Screw Anchor, 1/4 Inch	3
							1/2	1/8- by 4-Inch BH Toggle Bolt	
						•	No. 33	1-Inch No. 8 RH Self-Tapping Screw	
155, 156	•							3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	2
		•					3/32 or	Cadmium Flated Tapping Screw	
	•						No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
163		•			1			1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4

TABLE B (Contd)

BACK- BOARD			MOUN	ITING SURF	ACES		197	FASTENERS		
TYPE	SOFT- WOOD	HARD- WOOD	MASONRY * (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT	
							None	B Masonry Fastener, Size 5		
	abil.				100		3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4	
			•	100			1/4	Wall Screw Anchor, 1/4 Inch		
163	1		BWA	•			3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw		
		-	tin at .				None	B Masonry Fastener, Size 6	8- 1	
					•		1/4	Wall Screw Anchor, 1/4 Inch	3	
			the same				1/2	1/8- by 4-Inch BH Toggle Bolt		
			-			•	No. 33	1-Inch No. 8 RH Self-Tapping Screw		
	•				THE STATE OF	and a	3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw		
		•			C III		No. 33	1-Inch No. 8 RH Blued Wood Screw		
							None	B Masonry Fastener, Size 6		
		- ST	•		157		3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor		
164		0-0					1/4	Wall Screw Anchor, 1/4 Inch	4	
113		MA A	tot dies of marks				3/32 or No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw		
							None	B Masonry Fastener, Size 8		
		III m	The same	DATE SELE	•		1/4	Wall Screw Anchor, 1/4 Inch		
		11111		41 41 4			1/2	1/8- by 4-Inch BH Toggle Bolt		
) mu	•	No. 33	5/8-Inch No. 8 RH Self-Tapping Screw		
	•	d ki			Total .		3/32 or	2-1/2 Inch No. 8 RH Galvanized Wood Screw	H	
		•					No. 33	2-1/2 Inch No. 8 RH Galvanized Wood Screw		
					HE TO Y		None	B Masonry Fastener, Size 8		
165	Die Gwil		•		T.I		3/16	2-1/2 Inch No. 8 RH Galvanized Wood Screw in No. 10 Plastic Anchor	4	
	min-t		TOT S	1			7/16	Wall Screw Anchor, 7/16 Inch		
		and the	4.00	•	411		3/32 or No. 33	2-1/2 Inch No. 8 RH Galvanized Wood Screw		

TABLE B (Contd)

BACK- BOARD			MOUN	ITING SURF	ACES			FASTENERS	
ТУРЕ	SOFT- WOOD	HARD- WOOD	MASONRY* (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NO)
					-		None	B Masonry Fastener, Size 10	
					•		7/16	Wall Screw Anchor, 7/16 Inch	
165	1				419		5/8	3/16- by 4-Inch BH Toggle Bolt	4
						•	No. 33	1-1/4 Inch No. 8 RH Self- Tapping Screw	
	•		Y I S		1 98 m		3/32 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw	1
		•			141		No. 33	1-Inch No. 14 RH Galvanized Wood Screw	
166			•				5/16	1-1/4 Inch No. 14 RH Galvanized Wood Screw in No. 16 Plastic Anchor	4
							7/16	Wall Screw Anchor, 7/16 Inch	
				•	4.0		1/8 or No. 30	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
				-			7/16	Wall Screw Anchor, 7/16 Inch	
					•		3/4	1/4- by 4-Inch RH Toggle Bolt	
						•	1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw	
h	•						3/32 or	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•				en uj	No. 33	3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 4	
			•		W 1		3/16	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
			1000				0./10	C Plastic Anchor, /16 by 1 Inch	
1.00							3/16	C Plastic Anchor, /16 by 1 Inch	
168	79-0						1/4	Wall Screw Anchor, 1/4 Inch	4
			1111				3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 5	
			- ATTIVE I				1/4	Wall Screw Anchor, 1/4 Inch	
					1 17		1/2	1/8- by 4-Inch BH Toggle Bolt	
							3/16	C Plastic Anchor, 3/16 by 1 Inch	7
			-				No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
					1 7 11 1		3/16	C Plastic Anchor, 3/16 by 1 Inch	

TABLE B (Contd) FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD			MOUN	ITING SURI	FACES			FASTENERS	-
ТҮРЕ	SOFT- WOOD	HARD- WOOD	MASONRY* (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZB REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT
	•			IK.B			1/8 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
	-	•			141		No. 30	1-Inch No. 14 RH Galvanized Wood Screw	
	hif.		- Janes	men -	- MI -		None	C Masonry Fastener, Size 42	4
					W-E		5/16	1-Inch No. 14 RH Galvanized Wood Screw in No. 16 Plastic Anchor	m
169				No.			1/4	Wall Screw Anchor, 1/4 Inch	
70			dula e	•			1/8 or No. 30	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
	1001511			SHE I			None	C Masonry Fastener, Size 52	
							3/8	Wall Screw Anchor, 3/8 Inch	3
13	THE AREA						5/8	3/16- by 4-Inch BH Toggle Bolt	
	- 550 H	Tr. U	MIT HOYES	a tel	111	•	1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw	
	•		THE	Plants IN all			3/32 or	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
	1 61	•		H 8			No. 33	3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
	U NI P		allegate (alaka	4000		None	B Masonry Fastener, Size 4	
	Pal H)		•	est of the second	NAME OF THE PARTY		3/16	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
100	ueth ()	ETT	10°1 (10'11)	MARKET .			0.41.0	C Plastic Anchor, 3/16 by 1 Inch	
171	12 250		Dell'Ellin	and a	FEL 4015		3/16	C Plastic Anchor, 3/16 by 1 Inch	
171							1/4	Wall Screw Anchor, 1/4 Inch	4
	m(31	-	0.A	new)	0117		3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
			MINISTER DE				None	B Masonry Fastener, Size 5	
					•		1/4	Wall Screw Anchor 1/4 Inch	
100		HW 16	HOLD DE	-147			1/2	1/8- by 4-Inch BH Toggle Bolt	
		11.11	Minute I				3/16	C Plastic Anchor, 3/16 by 1 Inch	
	H	THE RE	4 oll this		III all		3/10	C Plastic Anchor, 3/16 by 1 Inch	
	1 5	-3145	TOTAL PROPERTY.	ul gra	and a	•	No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
172	•	PS I	A'S Itan's	obso -	alth	-	3/32 or	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4
-	21 99	•	national of the		3/12		No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4

TABLE B (Contd)

BACK- BOARD			MOUN	TING SURF	ACES			FASTENERS	_
TYPE	SOFT- WOOD	HARD- WOOD	MASONRY* (CONCRETE, BRICK)	L'ATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT
							None	B Masonry Fastener, Size 5	
		(40 H					3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
							1/4	Wall Screw Anchor, 1/4 Inch	
172				•			3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 6	
					•		1/4	Wall Screw Anchor, 1/4 Inch	3
							1/2	1/8- by 4-Inch BH Toggle Bolt	
						•	No. 33	1-Inch No. 8 RH Self-Tapping Screw	
	•						1/8 or	2-1/2 Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16- by 3/4-Inch Round Washer	
		•					No. 30	1-1/4 Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16- by 3/4-Inch Round Washer	
							None	B Masonry Fastener, Size 6	
173			•				5/16	1-3/4-Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16- by 3/4-Inch Round Washer in No. 16 Plastic Anchor	4
							7/16	Wall Screw Anchor, 7/16 Inch	
				•	April		1/8 or No. 30	1-3/4 Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16- by 3/4-Inch Round Washer	
							None	B Masonry Fastener, Size 8	
							7/16	Wall Screw Anchor, 7/16 Inch	
							3/4	1/4- by 4-Inch RH Toggle Bolt with 5/16- by 3/4-Inch Round Washer	
	•			A ST			3/32 or	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•					No. 33	3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
176							None	B Masonry Fastener, Size 4	4
		in i	•			=	3/16	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
		lat.					3/16	C Plastic Anchor, 3/16 by 1 Inch	

TABLE B (Contd) FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD			MOUN	ITING SURF	ACES		HOLE SIZE REQUIRED	FASTENERS	
ТУРЕ	SOFT- WOOD	HARD- WOOD	MASONRY * (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)		SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT 1)
							3/16	C Plastic Anchor, 3/16 by 1 Inch	
					The same of the		1/4	Wall Screw Anchor, 1/4 Inch	
				matinal.			3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 5	
176				Sec. 27	14 15		1/4	Wall Screw Anchor, 1/4 Inch	4
	-	100	STORE THE	ente i	Horse		1/2	1/8- by 4-Inch BH Toggle Bolt	
	JI III	12 10		luw.		17	3/16	C Plastic Anchor, 3/16 by 1 Inch	
	A Sh	D WE	that the	CEAL	1-9/3		No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
		-			Ind.		3/16	C Plastic Anchor, 3/16 by 1 Inch	
	•	11 17		11			1/8 or	1-1/2 Inch No. 14 FH Cadmium Plated Tapping Screw	
		•	Art som	19			No. 30	1-Inch No. 14 FH Cadmium Plated Tapping Screw	
177	1 1			LOZ M			5/16	1-1/4 Inch No. 14 FH Cadmium Plated Tapping Screw in No. 16 Plastic Anchor	4
		athor/					None	C Masonry Fastener, Size 52	
	plant.		hat make	Laure T	•		3/4	1/4- x 3- or 4-Inch Toggle Bolt	
	•				111		3/32 or	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•		I W II			No. 33	3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
	1 00	HT I					None	B Masonry Fastener, Size 5	
180A	100		of your		and i		3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
							1/4	Wall Screw Anchor, 1/4 Inch	
				•	III III I		3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
	- 11			1			1/4	Wall Screw Anchor, 1/4 Inch	
	1						1/2	1/8- by 4-Inch BH Toggle Bolt	
	-17	T	1.00		The state of	•	No. 33	3/4-Inch No. 8 RH Self-Tapping Screw	
181				-	- 442		1/8 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
181	1111	•		518			No. 30	1-Inch No. 14 RH Galvanized Wood Screw	4

♦ TABLE B (Contd) ♦

BACK- BOARD			MOUN	ITING SURI	FACES			FASTENERS	
ТҮРЕ	SOFT- WOOD	HARD- WOOD	MASONRY * (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT
							None	C Masonry Fastener, Size 42	
			•				5/16	1-Inch No. 14 RH Galvanized Wood Screw in No. 16 Plastic Anchor	4
							1/4	Wall Screw Anchor, 1/4 Inch	
181		N =		•	31/		1/8 or No. 30	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
	1	0:17-11					None	C Masonry Fastener, Size 52	
					•		3/8	Wall Screw Anchor, 3/8 Inch	3
		Alfael II			10.00		5/8	3/16- by 4-Inch BH Toggle Bolt	
		Tip/				•	1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw	
	•	197			10 111		3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	П
		•			VIII VIII		No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 5	70
				-			3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
182, 191	177				141		1/4	Wall Screw Anchor, 1/4 Inch	2
131				•			3/32 or No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		1	99.05		10.0		None	B Masonry Fastener, Size 6	
							1/4	Wall Screw Anchor, 1/4 Inch	
							1/2	1/8- by 4-Inch BH Toggle Bolt	
					-		No. 33	1-Inch No. 8 RH Self-Tapping Screw	
							3/16	C Plastic Anchor, 3/16 by 1 Inch	
	•						3/32 or	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
183, 184,		•			T as		No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
185,			C manage		2.3		None	B Masonry Fastener, Size 5	
187‡, 188 198‡			•		DE 201	7	3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
			_ werd	Laft	A SHEET	1 2	1/4	Wall Screw Anchor, 1/4 Inch	
			11	•	44		3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	

♦ TABLE B (Contd): 4

BACK- BOARD		-	MOUN	ITING SURI	FACES		THU.	FASTENERS	-907
TYPE	SOFT- WOOD	HARD- WOOD	MASONRY * (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZ8 REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT 1)
183	7,010714		H. IV C				None	B Masonry Fastener, Size 6	
184, 185,					•		1/4	Wall Screw Anchor, 1/4 Inch	
187‡,	1			mh. 97	TO BLE		1/2	1/8- by 4-Inch BH Toggle Bolt	4
188 198‡	The sta	U III			III. and		No. 33	1-Inch No. 8 RH Self-Tapping Screw	
		•		- Carle			3/32 or No. 33	1-Inch No. 8 FH Cadmium Plated Tapping Screw	-OZ
10	dre dr		T TANK	pulse?			None	B Masonry Fastener, Size 5	15
186	or all		•				3/16	1-1/2 Inch No. 8 FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	2
	SELVE MITTER	-		•	8/6		1/4	Wall Screw Anchor, 1/4 Inch 1-Inch No. 8 FH Cadmium Plated Tapping Screw	
				107	CLAIR D		No. 33	1-Inch No. 8 FH Cadmium Plated Tapping Screw	FIL
	•						3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•		a e	synlag of the		No. 33	1-Inch No. 8 RH PH or FH Cadmium Plated Tapping Screw	1172 118
					100 mg 100 mg		None	B Masonry Fastener, Size 4	
		-	in the last		bedme eden		1/4	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
KS-							0/10	C Plastic Anchor, 3/16 by 1 Inch	
5796,							3/16	C Plastic Anchor, 3/16 by 1 Inch	
L1, 2, 3, 7,				•			1/4	Wall Screw Anchor, 1/4 Inch	4
8, 9							3/32 or No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 6	
							1/4	Wall Screw Anchor, 1/4 Inch	
							1/2	1/8- by 4-Inch BH Toggle Bolt	
			- 1				3/16	C Plastic Anchor, 3/16 by 1 Inch	
						•	No. 33	1-1/4 Inch No. 8 RH Self- Tapping Screw	
							3/16	C Plastic Anchor, 3/16 by 1 Inch	

TABLE B (Contd)

FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD		MOUNTING SURFACES		FASTENERS					
ТҮРЕ	SOFT- WOOD	HARD- WOOD	MASONRY* (CONCRETE, BRICK)	LATH AND PLASTER†	PLASTER, CINDER BLOCK, HOLLOW TILE, METAL LATH, PLASTER- BOARD†	METAL (DESK OR PANELING)	HOLE SIZE REQUIRED	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOTE 1)
	•						1/8 or	2-1/2 Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16 x 3/4 and 7/16 x 1-Inch Flat Washers under screwhead	
ED- 69368-		•	PATE A				No. 30	2-1/2-Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16 x 3/4 and 7/16 x 1-Inch Flat Washers under screwhead	6
50, G-1					100		5/16	2-1/2-Inch No. 14 FH Cadmium Plated Tapping Screw with 5/16 x 3/4 and 7/16 x 1-Inch Flat Washers under screwhead in No. 16 Plastic Anchor	6
					•		5/8	3/16 x 3 or 4-Inch BH Toggle Bolt with 5/16 x 3/4 and 7/16 x 1-Inch Flat Washers under bolt head	
197			10 1 1		Ref	er to Sect	ion 518-450	-111	

Notes:

- 1. Additional fasteners may be placed to ensure mounting.
- 2. When using toggle bolts, cut off excess length.
- 3. Size shown for wall screw anchors is diameter only. Length will be determined by wall thickness.
- * When mounting on plastered masonry, use fasteners 1/2-inch longer than specified.
- † When mounting on plasterboard, plaster on lath, etc, fasteners must be embedded in stud at least 1 inch.
- ‡ Requires only 2 fasteners.