BACKBOARDS

IDENTIFICATION AND INSTALLATION

1. GENERAL

1.01 This section provides information on common use backboards. Refer to Division 506 for information on backboards for coin collectors and coin telephone sets.

1.02 This section is reissued to:

- Add new code 183-, 184-, 186-, and 187-type backboards
- Show blued and bright finished wood screws replaced by cadmium plated tapping screws.

2. IDENTIFICATION

2.01 The purpose of these backboards is to provide adequate mounting surfaces for the installation of telephone sets, connecting blocks, and various other apparatus.

2.02 When terminating and cross-connecting cables on the customer's premises, especially in large buildings, it is recommended that the backboards installed in these locations be standardized. These backboards are now available in several sizes and colors, and should follow the color scheme plan outlined in Section 461-100-101.

2.03 Ordering Guide:

CODE NO.	FIG. NO.
Backboard, 79	1
Backboard, 81	2
Backboard, 147A	3
Backboard, 154A	4
Backboard, 155A (MD)	5
Backboard, 156A (MD)	6

Backboard, 163A	7
Backboard, 164A	8
Backboard, 165A	9
Backboard, 166A	10
Backboard, 168D*	11
Backboard, 168E*	12
Backboard, 168F*	13
Backboard, 169A (MD)	14
Backboard, 171A	15
Backboard, 172C* (MD)	16
Backboard, 173A	17
Backboard, 173B	18
Backboard, 176A	19
Backboard, 177A	20
Backboard, 180A	21
Backboard, 181A	22
Cover, Screen, D-180313	22
Backboard, 182B*	23
▶Backboard, 183A1, A2,	
A4, or A5†	24
♦Backboard, 183B1, B2,	
B3, B4, or B5†	25
▶Backboard, 184A1†	26
▶Backboard, 184B1†	27
▶Backboard, 184B2†	28
Backboard, 185A1†	29
▶Backboard, 186A	30
▶Backboard, 187B1†	31
Backboard, KS-5796L1 or	
L7	32
Backboard, KS-5796L2 or	
L8	33
Backboard, KS-5796L3 or	
L9	34
Backboard Assembly,	
ED-69368-50,G-1	35

^{*}Add desired color code selected from Table A.
†Refer to appropriate figures for size and color
information.

TABLE A

COLOR ORDERING GUIDE

			BACKBOAR	D
CODE	COLOR	168D, 168E, 168F	172C*	1828
-3	Black		•	•
- 49	Light Olive Gray	•		
-50	Ivory	•	•	•
-51	Green		•	•
-53	Red		•	•
-56	Yellow		•	•
-58	White	insti	•	•
-59	Rose Pink		•	•
-60	Light Beige		•	•
-61	Light Gray		•	•
-62	Aqua Blue			•
-64	Turquoise		•	•

^{*} MD

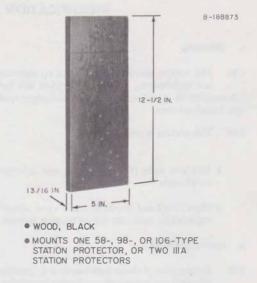
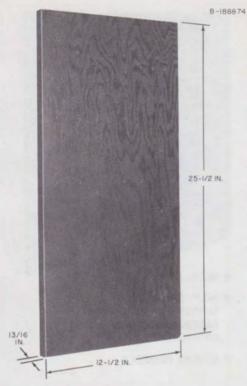
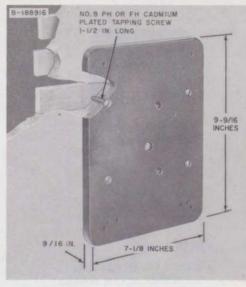


Fig. 1—79 Backboard



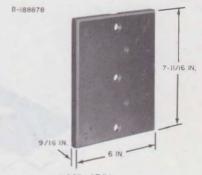
- · WOOD, BLACK
- MOUNTS FIVE 58-, 98-, OR IO6-TYPE STATION PROTECTORS

Fig. 2-81 Backboard



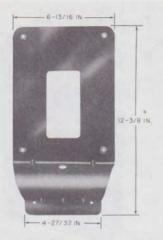
- WOOD, GRAY
- MOUNTS A J86205H RECTIFIER,
 634-, OR 653-TYPE SUBSCRIBER SET

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

B-188879

ABOUT I/8 IN.

NO.8 PH OR FH CADMIUM PLATED 3/4 IN. TAPPING SCREWS

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

B-925452

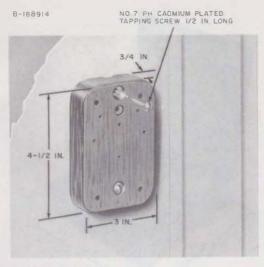
Fig. 5—155A (MD) Backboard

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



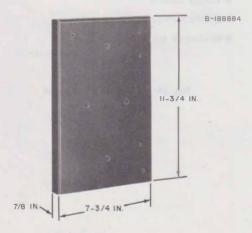
- PHENOL FIBER, GRAY
- MOUNTS 14A OR 20A-TYPE INDICATOR
- SCREWS PROVIDED FOR MOUNTING INDICATOR AND BACKBOARD

Fig. 7—163A Backboard



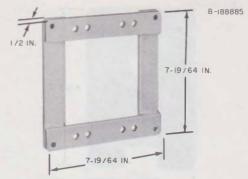
- WOOD, BLACK
- MOUNTS C- OR G-TYPE HAND TELEPHONE SET MOUNTINGS, OR 7-TYPE BUZZERS AND BELLS ON OTHER THAN WOOD SURFACES
- REPLACES 157A BACKBOARD

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

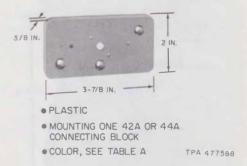
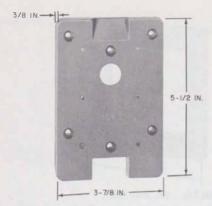
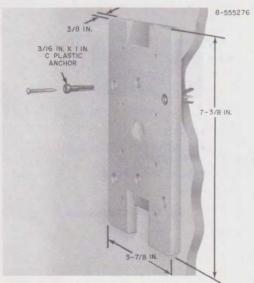


Fig. 11—168D Backboard



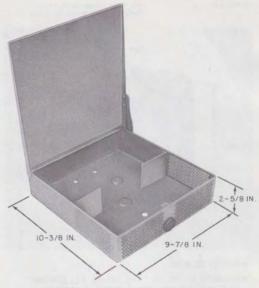
- PLASTIC
- MOUNTS TWO OR THREE 44A
 CONNECTING BLOCKS
- COLOR, SEE TABLE A

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

8-188891

Fig. 14—169A (MD) Backboard

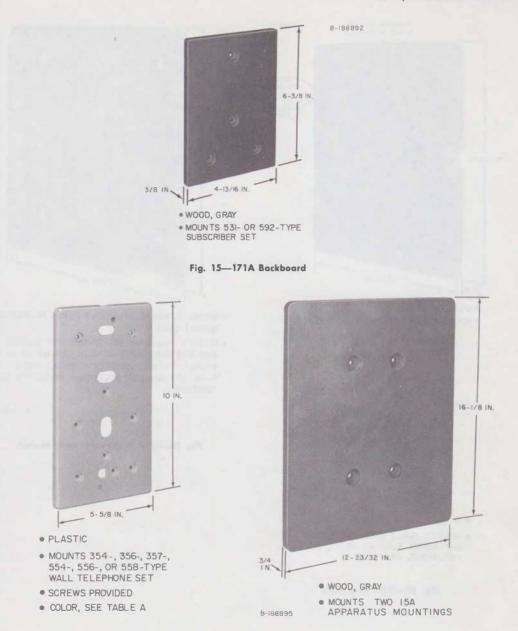
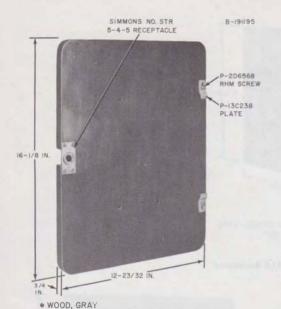


Fig. 16-172C (MD) Backboard

Fig. 17—173A Backboard



- MOUNTS ONE 3IA APPARATUS MOUNTING
 Fig. 18—173B Backboard
- B-188888 2 IN. 3-7/8 IN.
 - 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 3IB APPARATUS MOUNTING USING A P-I5O309 HINGED BRACKET ASSEMBLY AND A P-48F305 BRACKET ASSEMBLY. BRACKETS NOT FURNISHED.

B-859127

Fig. 20—177A Backboard (Early Model)

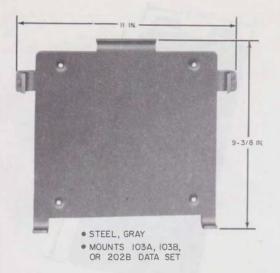
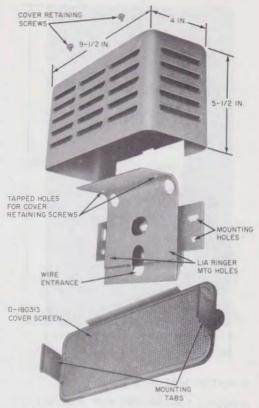


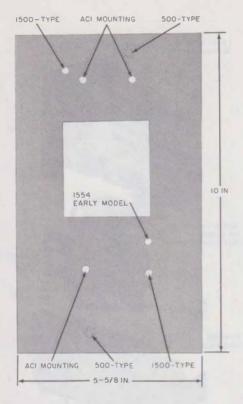
Fig. 21—180A Backboard



- 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

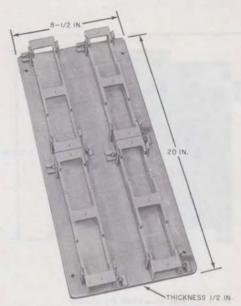
SECTION 463-130-100



- PLASTIC 9/32-IN. THICK
- MOUNTS 500-OR 1500 TYPE WALL SET,
 OR ACI TELEPHONE BASE
- MAY BE USED TO MASK UNSIGHTLY WALL CONDITIONS EXISTING WHEN LARGER WALL SETS ARE REPLACED BY SMALLER SETS
- CAN BE ADAPTED FOR USE WITH 500-TYPE WALL SETS
- COLOR, SEE TABLE A

TPA 467527

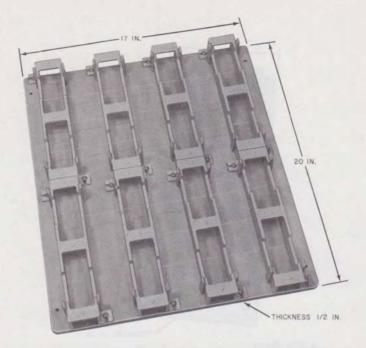
Fig. 23—182B Backboard



- 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 461-100-101.

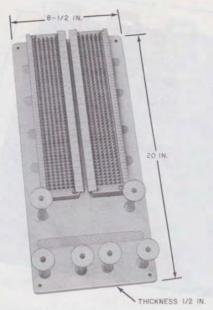
TPA 550705

Fig. 24—183A1, A2, A4, or A5 Backboard



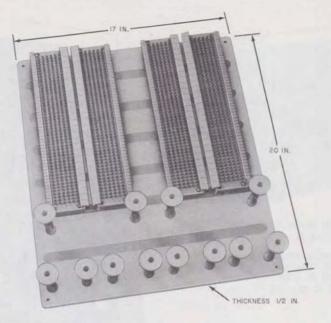
- BLUE 183BI, GREEN 183B2, RED 183B3, PURPLE 183B4, YELLOW 183B5.
- CONSISTS OF METAL BOARD AND EIGHT PLASTIC 89B BRACKETS SECURED BY TWO SCREWS EACH.
- MOUNTS EIGHT 66-TYPE CONNECTING BLOCKS, ORDERED SEPARATELY.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 461-100-101.

Fig. 25-183B1, B2, B3, B4, or B5 Backboard



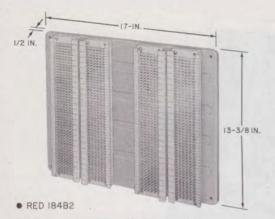
- RED 184AI.
- CONSISTS OF METAL BOARD, TWO 66B4-25 CONNECTING BLOCKS, AND SIX P-43X237 DISTRIBUTING RINGS.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 461-100-101

Fig. 26—184A1 Backboard



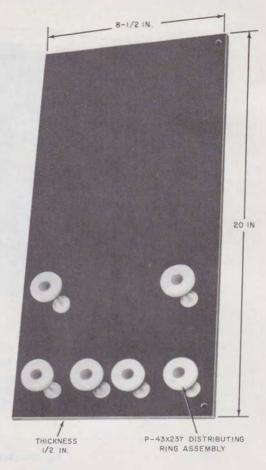
- RED 184BI.
- CONSISTS OF METAL BOARD, FOUR 6684-25 CONNECTING BLOCKS, AND TWELVE P-43x237 DISTRIBUTING RINGS.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 461-100-101.

Fig. 27—184B1 Backboard



- CONSISTS OF METAL BOARD AND FOUR 6684-25 CONNECTING BLOCKS.
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 461-100-101

Fig. 28—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 461-100-101

Fig. 29-185A1 Backboard

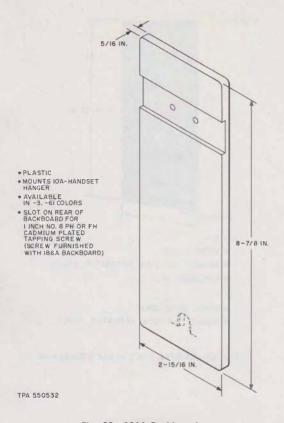
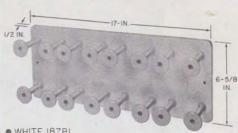
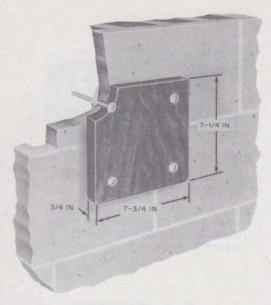


Fig. 30-186A Backboard



- WHITE 187BI
- CONSISTS OF WOOD BOARD AND SIXTEEN P-43X237 DISTRIBUTING RINGS
- USEFUL IN MODULAR CONNECTING BLOCK ARRANGEMENT FOR TERMINATING AND CROSS CONNECTING ON CUSTOMER'S PREMISES, REFER TO SECTION 461-100-101

Fig. 31-187B1 Backboard



LIST I

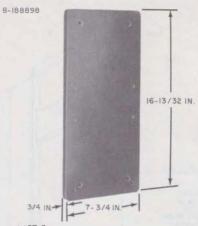
- . WOOD, BLACK
- . MOUNTS ONE 105A APPARATUS BOX
- REPLACES 160A

LIST 7

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

8-188913

Fig. 32—KS-5796, List 1 or List 7 Backboard Mounted on Cinder Block



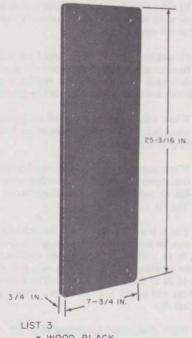
LIST 2:

- . WOOD, BLACK
- MOUNTS TWO 105A APPARATUS BOXES
- REPLACES 161A

LIST B:

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

Fig. 33—KS-5796, List 2 or List 8 Backboard



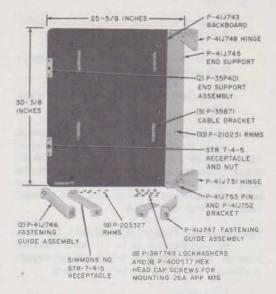
- WOOD, BLACK
- MOUNTS THREE 105A APPARATUS BOXES
- REPLACES 162A

LIST 9

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

B-188899

Fig. 34-KS-5796, List 3 or List 9 Backboard



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

8-191196

Fig. 35-ED-69368-50, Group 1 Backboard Assembly

3. INSTALLATION

3.01 ◆Backboards used to mount apparatus or equipment other than the colored backboards used on the customer's premises where installations are to be standardized should be used only as required.◆

Do not use a backboard unless:

- 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 Backboard used on the customer's premises where standardization is important should follow the color scheme plan in Section 461-100-101 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 backboard is dependent upon apparatus to be mounted thereon; however, select a location which will not expose workmen 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 R

- (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).
- (i) 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 of 1/8- to 1/2-inch thick to fasten backboards at indoor locations. The B beam clip will accept to a 10-24 or a 1/4-20 size screw. The B insulator support will accept a 10-24 screw. (See Fig. 36, 37, and 38.)
- (k) Holes designated by bosses (Fig. 39) on the rear of a 182B 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 backboard may be broken out to allow entry of inside wiring (Fig. 39).
- (m) The telephone set is not mounted on a 182B 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 seton a 182B 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. 40).

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 strike 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 personal injury, damage to furniture, etc.

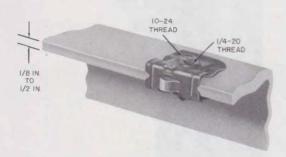


Fig. 36—B Beam Clip Mounted on Angle Iron



Fig. 37—B Insulator Support



Fig. 38—Typical Installation of Backboard Using B Beam Clip

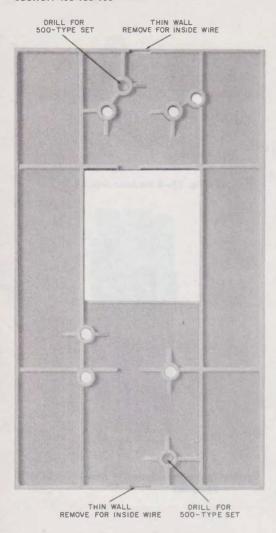


Fig. 39—182B Backboard, Rear View

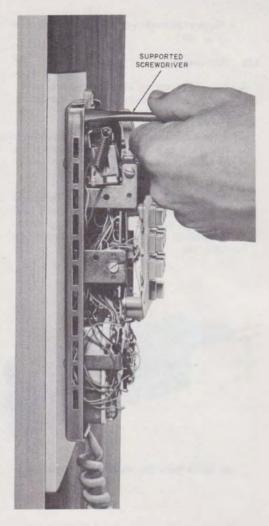


Fig. 40—Tightening Fasteners Which Support Telephone Set and 182B Backboard

♦ TABLE B ♦

FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD			MOUN	ITING SURI	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 (NOT
	•						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	
				1237			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	
						J 100 15	1/4	Wall Screw Anchor, 1/4 Inch	3
	- 8						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 No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
163								1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4

TABLE B (Cont) 4

BACK- BOARD			мои	ITING SURF	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 (NOT
			and the				None	B Masonry Fastener, Size 5	
							3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
		1000			100%		1/4	Wall Screw Anchor, 1/4 Inch	
163							3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
			The state of				None	B Masonry Fastener, Size 6	
		1	1				1/4	Wall Screw Anchor, 1/4 Inch	3
					and the little		1/2	1/8- by 4-Inch BH Toggle Bolt	
		7111-		ALT:			No. 33	1-Inch No. 8 RH Self-Tapping Screw	
		of m			21/		3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
				- 8			No. 33	1-Inch No. 8 RH Blued Wood Screw	
				8,48			None	B Masonry Fastener, Size 6	2
							3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
164							1/4	Wall Screw Anchor, 1/4 Inch	4
							3/32 or No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
				TO THE			None	B Masonry Fastener, Size 8	
		1	1 100				1/4	Wall Screw Anchor, 1/4 Inch	
	1						1/2	1/8- by 4-Inch BH Toggle Bolt	
	-84				111		No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
							3/32 or	2-1/2 Inch No. 8 RH Galvanized Wood Screw	
							No. 33	2-1/2 Inch No. 8 RH Galvanized Wood Screw	
							None	B Masonry Fastener, Size 8	
165							3/16	2-1/2 Inch No. 8 RH Galvanized Wood Screw in No. 10 Plastic Anchor	4
- 1							7/16	Wall Screw Anchor, 7/16 Inch	71
			The second				3/32 or No. 33	2-1/2 Inch No. 8 RH Galvanized Wood Screw	

♦ TABLE B (Cont) ♦

BACK- BOARD			MOUN	ITING SURI	FACES			FASTENERS						
ТҮРЕ	SOFT- WOOD	HARD- WOOD	MASONRY* ICONCRETE, BRICKI	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 (NOT					
							None	B Masonry Fastener, Size 10						
			1				7/16	Wall Screw Anchor, 7/16 Inch						
165							5/8	3/16- by 4-Inch BH Toggle Bolt	4					
							No. 33	1-1/4 Inch No. 8 RH Self- Tapping Screw						
							3/32 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw						
		•					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						
		0 nu						1-1/2 Inch No. 14 RH Galvanized Wood Screw						
					7/16	Wall Screw Anchor, 7/16 Inch								
		1					3/4	1/4- by 4-Inch RH Toggle Bolt						
			100				1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw						
							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						
	-1 19		-11-15-15				None	B Masonry Fastener, Size 4						
												3/16	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
								C Plastic Anchor, /16 by 1 Inch						
							3/16	C Plastic Anchor, /16 by 1 Inch						
168	(Paul						1/4	Wall Screw Anchor, 1/4 Inch	4					
							3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw						
					Mal		None	B Masonry Fastener, Size 5						
					77 6		1/4	Wall Screw Anchor, 1/4 Inch						
							1/2	1/8- by 4-Inch BH Toggle Bolt						
							3/16	C Plastic Anchor, 3/16 by 1 Inch						
X F			194				No. 33	5/8-Inch No. 8 RH Self-Tapping Screw						
							3/16	C Plastic Anchor, 3/16 by 1 Inch						

♦ TABLE B (Cont) ♦ FASTENERS USED IN MOUNTING BACKBOARDS

BACK- BOARD			MOUN	ITING SURI	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
				T I			1/8 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
	1						No. 30	1-Inch No. 14 RH Galvanized Wood Screw	
	H- HY						None	C Masonry Fastener, Size 42	4
							5/16	1-Inch No. 14 RH Galvanized Wood Screw in No. 16 Plastic Anchor	
169	7 111				THE WATER	-	1/4	Wall Screw Anchor, 1/4 Inch	
		Ear.					1/8 or No. 30	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
	49						None	C Masronry Fastener, Size 52	
	-				•	1	3/8	Wall Screw Anchor, 3/8 Inch	3
							5/8	3/16- by 4-Inch BH Toggle Bolt	
							1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw	
							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	
							None	B Masonry Fastener, Size 4	
							3/16	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
							0.440	C Plastic Anchor, 3/16 by 1 Inch	
171	83			- 1 1			3/16	C Plastic Anchor, 3/16 by 1 Inch	
1/1	-5 19						1/4	Wall Screw Anchor, 1/4 Inch	4
							3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masronry Fastener, Size 5	
							1/4	Wall Screw Anchor 1/4 Inch	
				-314			1/2	1/8- by 4-Inch BH Toggle Bolt	
					_		3/16	C Plastic Anchor, 3/16 by 1 Inch	
							3/10	C Plastic Anchor, 3/16 by 1 Inch	
	-	65					No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
172							3/32 or	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4
						-	No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	4

TABLE B (Cont)

BACK- BOARD			MOUN	ITING SURF	ACES			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 REQD	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT 1)
							None	B Masonry Fastener, Size 5	
							3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
			the cont				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.		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	
							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	٠.
							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	
							3/32 or	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
E				Sair	11 .00		No. 33	3/4-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
176							None	B Masonry Fastener, Size 4	4
							3/16	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
							3/16	C Plastic Anchor, 3/16 by 1 Inch	

♦ TABLE B (Cont) ♦

BACK- BOARD			MOUN	ITING SURF	ACES			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 REQD	SIZE AND TYPE (NOTE 2 AND 3)	QTY (NOT
							3/16	C Plastic Anchor, 3/16 by 1 Inch	
							1/4	Wall Screw Anchor, 1/4 Inch	
							3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 5	
176	35	100					1/4	Wall Screw Anchor, 1/4 Inch	4
110							1/2	1/8- by 4-Inch BH Toggle Bolt	
						-	3/16	C Plastic Anchor, 3/16 by 1 Inch	
							No. 33	5/8-Inch No. 8 RH Self-Tapping Screw	
		== /		1-1			3/16	C Plastic Anchor, 3/16 by 1 Inch	
							1/8 or	1-1/2 Inch No. 14 FH Cadmium Plated Tapping Screw	
							No. 30	1-Inch No. 14 FH Cadmium Plated Tapping Screw	
177							5/16	1-1/4 Inch No. 14 FH Cadmium Plated Tapping Screw in No. 16 Plastic Anchor	4
		1					None	C Masonry Fastener, Size 52	
							3/4	1/4- x 3- or 4-Inch Toggle Bolt	
							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	
				0.000			None	B Masonry Fastener, Size 5	
180A			•				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	
							3/32 or No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
				100			1/4	Wall Screw Anchor, 1/4 Inch	
							1/2	1/8- by 4-Inch BH Toggle Bolt	
							No. 33	3/4-Inch No. 8 RH Self-Tapping Screw	
101		0.11					1/8 or	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
181							No. 30	1-Inch No. 14 RH Galvanized Wood Screw	4

TABLE B (Cont)

BACK- BOARD			MOUN	ITING SURI	FACES			FASTENERS	
TYPE	SOFT- WOOD	HARD- WOOD	MASONRY* (CONCRETE, BRICK)	ŁATH 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 (NO
							None	C Masonry Fastener, Size 42	
					100		5/16	1-Inch No. 14 RH Galvanized Wood Screw in No. 16 Plastic Anchor	4
				E			1/4	Wall Screw Anchor, 1/4 Inch	
181	- 10						1/8 or No. 30	1-1/2 Inch No. 14 RH Galvanized Wood Screw	
							None	C Masonry Fastener, Size 52	
							3/8	Wall Screw Anchor, 3/8 Inch	3
							5/8	3/16- by 4-Inch BH Toggle Bolt	
							1/4	12-24 by 9/16-Inch RH Galva- nized Iron Machine Screw	
	•		AT S POST				3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
			FIRM				No. 33	1-Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
			-				None	B Masonry Fastener, Size 5	
					-		3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
182			1100				1/4	Wall Screw Anchor, 1/4 Inch	2
-0				-			3/32 or No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
				-			None	B Masonry Fastener, Size 6	
				91111			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	
	10		1 - 1 / - 7				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,		•					No. 33	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
184, 185.							None	B Masonry Fastener, Size 5	
187							3/16	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	4
			- 46	911			1/4	Wall Screw Anchor, 1/4 Inch	
				•			3/32 or No. 33	1-1/2 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	

♦ TABLE B (Cont) ♦

BACK- BOARD			MOUN	ITING SURI	FACES			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 (NOTI
183.	100						None	B Masonry Fastener, Size 6	
184,							1/4	Wall Screw Anchor, 1/4 Inch	
185,					160		1/2	1/8- by 4-Inch BH Toggle Bolt	4
187	1000						No. 33	1-Inch No. 8 RH Self-Tapping Screw	
							3/32 or No. 33	1-Inch No. 8 FH Cadmium Plated Tapping Screw	in in
							None	B Masonry Fastener, Size 5	
186							3/16	1-1/2 Inch No. 8 FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	2
			ine i				1/4	Wall Screw Anchor, 1/4 Inch 1-Inch No. 8 FH Cadmium Plated Tapping Screw	
							No. 33	1-Inch No. 8 FH Cadmium Plated Tapping Screw	
		L IN				1	3/32 or	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw	
		•					No. 33	1-Inch No. 8 RH PH or FH Cadmium Plated Tapping Screw	
							None	B Masonry Fastener, Size 4	
							1/4	1-1/4 Inch No. 8 PH or FH Cadmium Plated Tapping Screw in No. 10 Plastic Anchor	
KS-							0.44.0	C Plastic Anchor, 3/16 by 1 Inch	
5796,	-	- 11		-10			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	
					AL TO I		None	B Masonry Fastener, Size 6	
							1/4	Wall Screw Anchor, 1/4 Inch	
	-			F0 11	-		1/2	1/8- by 4-Inch BH Toggle Bolt	
	100		1				3/16	C Plastic Anchor, 3/16 by 1 Inch	
					-110		No. 33	1-1/4 Inch No. 8 RH Self- Tapping Screw	
	ADET	1	14.		100		3/16	C Plastic Anchor, 3/16 by 1 Inch	

♦ TABLE B (Cont) ♦

BACK- BOARD			MOUN	ITING SURF	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 (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-							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			**				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 Fashers 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	

- 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.