

**BELL SYSTEM PRACTICES**  
**Station Installation and Maintenance**

**SECTION C64.511**  
**Issue 6, 2-16-48**  
**AT&T Co Standard**

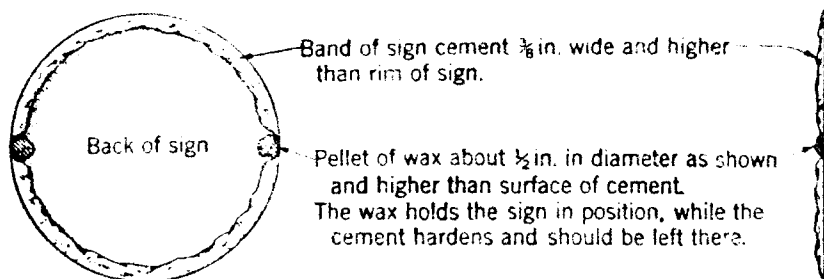
## **PUBLIC TELEPHONE SIGNS**

### **INSTALLATION**

(Reference Section for C45.105, C45.106, C45.111 and C45.112)

#### **1. INSTALLATION OF ENAMELED IRON SIGNS**

1.01 Fasten the No. 21 or No. 22 sign with fresh cement on glass, marble or masonry that is not rough, uneven or permanently wet and on flat metal. All dirt, grease, oil, etc. should be removed from glass and back of sign before cementing sign. Cement back of sign as shown in Fig. 1.



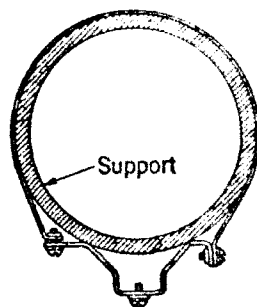
**Fig. 1—Installation of No. 21 Sign**

- 1.02 Nos. 21 and 22 signs should be mounted not more than 5 feet above floor or sidewalk.
- 1.03 Install No. 25 sign only in locations specified on installation order.
- 1.04 Nos. 25A and 25B sign brackets are used for fastening the No. 25 sign to walls at an angle of 90° or 45°, respectively.
- 1.05 Fasteners for use on flat surfaces with signs Nos. 22, 23, 24 and 25 are given in the following table. Place a fastener in each hole provided in the sign except in 11 32-inch grommets of No. 24 sign which are for use with bracket bolts shown in Figs. 2 and 3. Fasteners for Nos. 25A and 25B sign brackets are same as those given for No. 25 sign.

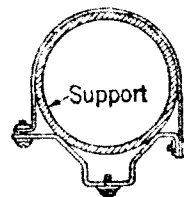
Surface	Flanged Signs No. 23 and No. 24	Flat Signs No. 22 and No. 25	Wooden Battens
Wood or Metal Sheath on Solid Wood.	1-1/4-inch No. 14 R.H. Galv. Wood Screws.	1-inch No. 10 R.H. Galv. Wood Screws.	Not Used.
Masonry, Brickwork, Concrete, Stonework, etc.	1-1/4-inch x 1-1/4-inch Hammer Drive Anchors, or 1-1/4-inch No. 14 R.H. Wood Screws in No. 10-14 x 1-inch Screw Anchors.	1-inch No. 10 R.H. Galv. Wood Screws in No. 6-8 x 3/4-inch Screw Anchors, or 3-16-inch x 7/8-inch Hammer Drive Anchors.	Not Used.
Solid Metal.	1/2-inch No. 10-24 Brass Mach. Screws. Use No. 23 Straight Shank Twist Drill and No. 10-24 Machine Screw Plug Tap.		Not Used.
Metal Sheath on Furring Strips or Other Framework.	1/4-inch x 4-inch R.H. Toggle Bolts. Make 3/4-inch hole for toggle.	3/16-inch x 4-inch B.H. Toggle Bolts. Make 5/8-inch hole for toggle.	Not Used.
Hollow Tile Plastered.	Install suitable wooden batten 7/8-inch to 1-1/4-inch thick using attaching devices listed opposite. Attach flanged signs to batten with 1-1/4-inch No. 14 R.H. Galv. Wood Screws and flat signs with 1-inch No. 10 R.H. Galv. Wood Screws.	Four 3/16-inch x 4-inch B.H. Toggle Bolts. Make 5/8-inch hole for toggles. If solid part of tile is struck, tilt drill toward hollow part or insert seasoned wooden plug and use screws.	
Wood Lath Plastered.		Four 2-1/2-inch No. 10 R.H. Galv. Wood Screws.	
Wire Lath Plastered.		Four 3/16-inch x 4-inch B.H. Toggle Bolts. Make 5/8-inch hole for toggle.	
Masonry Plastered.		Four 2-1/2-inch No. 10 R.H. Galv. Wood Screws in 6-8 x 1-1/2-inch Screw Anchors or 5/16-inch x 2-1/4-inch Hammer Drive Anchors.	

Note 1: If hammer drive anchors used are of the type which bring nail head close to the surface of the sign, use double headed nails.

Note 2: If No. 8 R.H. Galv. Wood Screws of suitable length are available, they may also be used for attaching flat signs.



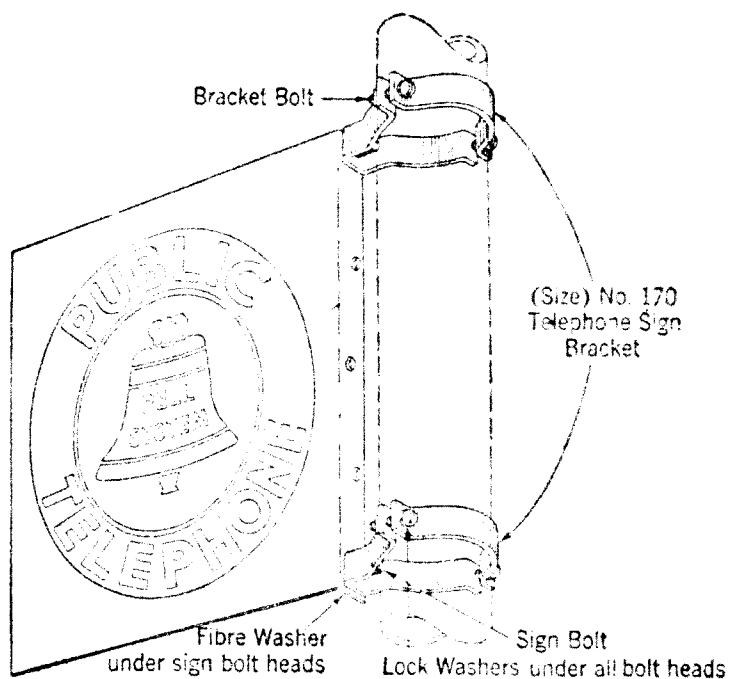
Large Pole



Small Pole

Fibre Washers under sign bolt heads  
Lock Washers under all bolt heads

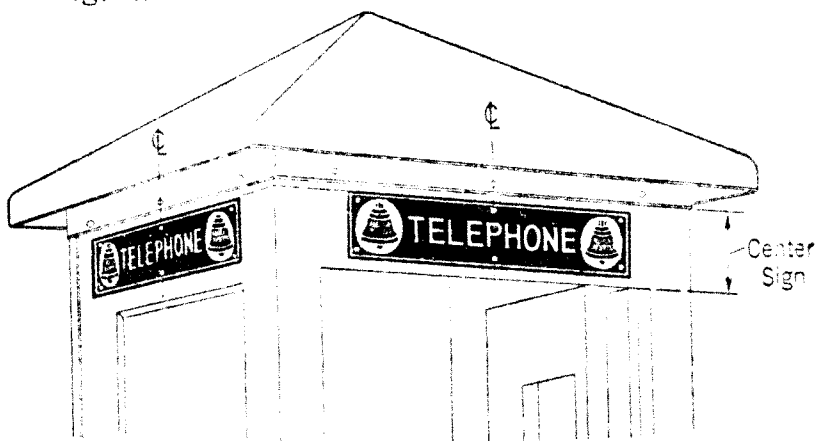
Fig. 2—Sign Bracket—Type 188



**Fig. 3—Sign Bracket—Type 170**

1.06 In the absence of special instructions or local ordinances to the contrary, install Nos. 23 and 24 signs and the No. 25 sign when mounted at an angle, so that the sign bottom is preferably 10 feet but not less than 8 feet above sidewalk, platform or floor.

1.07 Install No. 26 sign on outdoor booth as shown in Fig. 4.



**Fig. 4—Installation of No. 26 Sign**

1.08 Use 1-inch No. 8 R.H. Galv. Wood Screws to attach the sign to the booth.

## 2. INSTALLATION OF ILLUMINATED SIGNS

2.01 Clearances for the bottom of illuminated signs mounted on walls should never be less than 8 feet from the floor, sidewalls, platform or stairs.

2.02 A 25 or 40-watt lamp is required for the No. 7 sign and a 60-watt lamp for the No. 8 sign. Lamps which may be used with Nulite signs are:

### Sign Code

NU2-A

and

NU2-B

Nulite

### Fluorescent Lamp

G-E F15T12 D (Daylight)

G-E F15T12 B (Blue)

G-E F15T12 G (Green)

G-E F15T12 Go (Gold)

G-E F20T12/B (Blue)

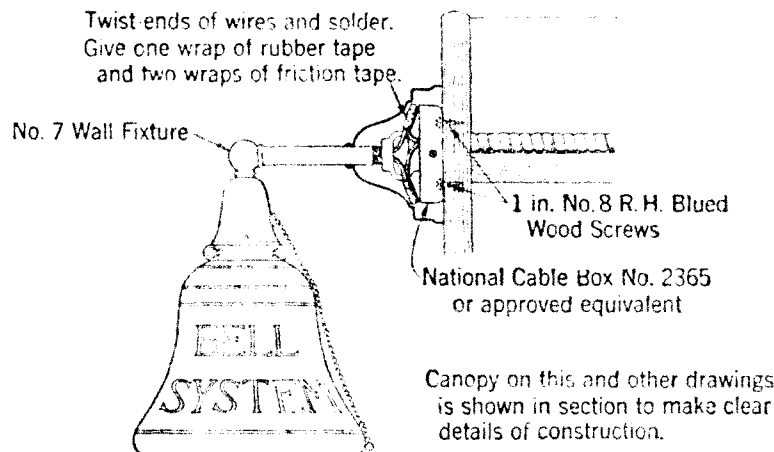


Fig. 5—Installation of No. 7 Sign

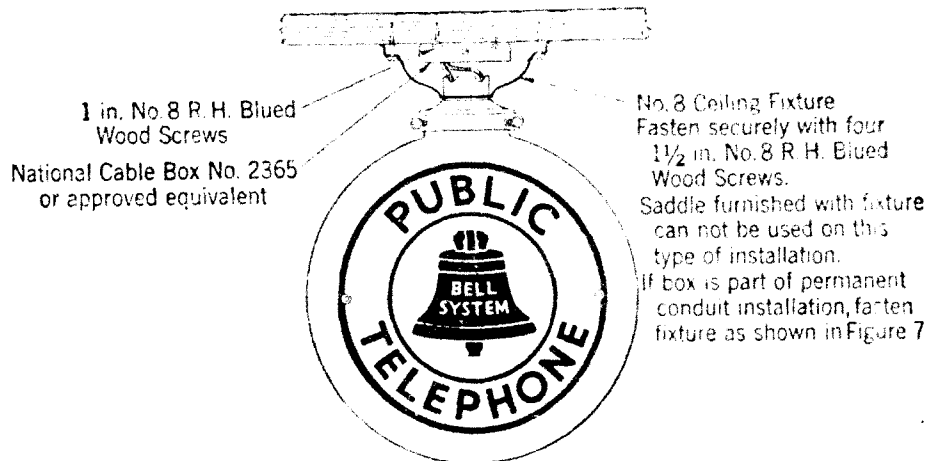
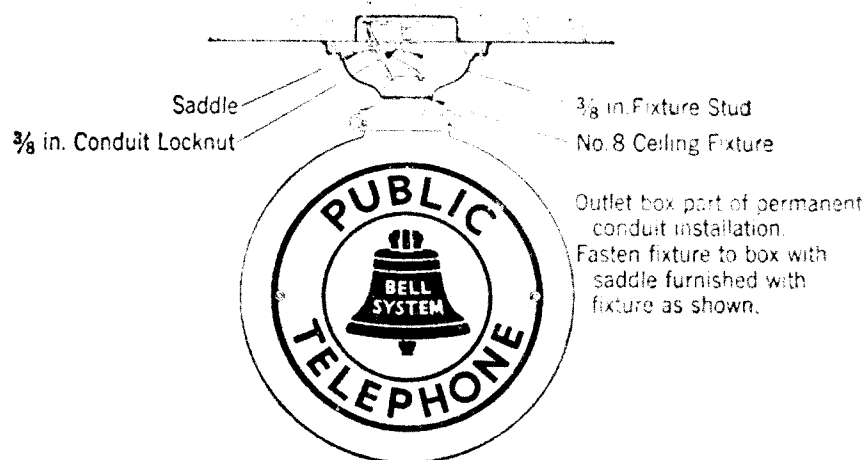
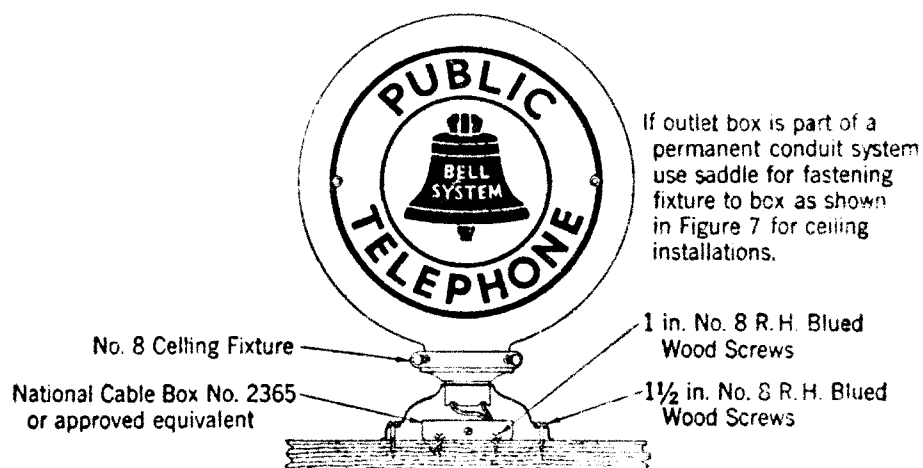


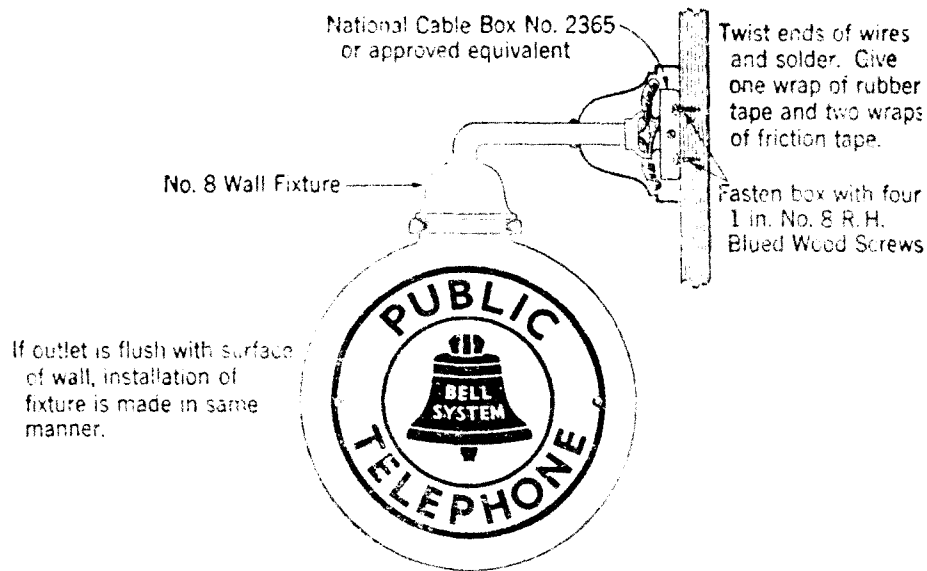
Fig. 6—Installation of No. 8 Sign on Wood Ceiling



**Fig. 7—Installation of No. 8 Sign on Other Ceiling Surfaces**



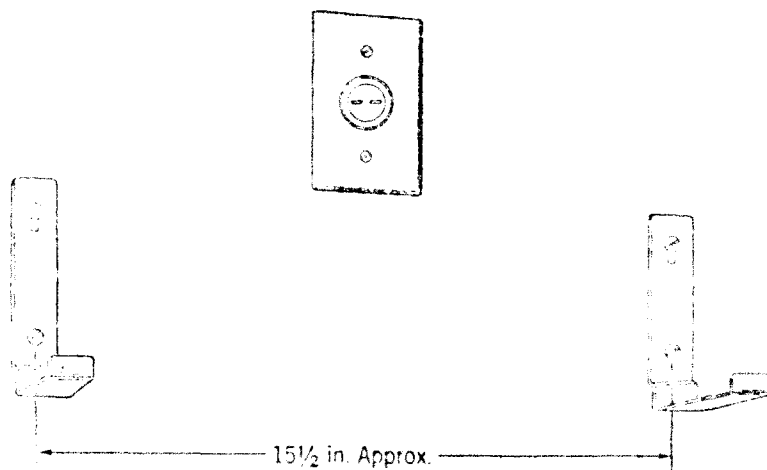
**Fig. 8—Standing Installation of No. 8 Sign**



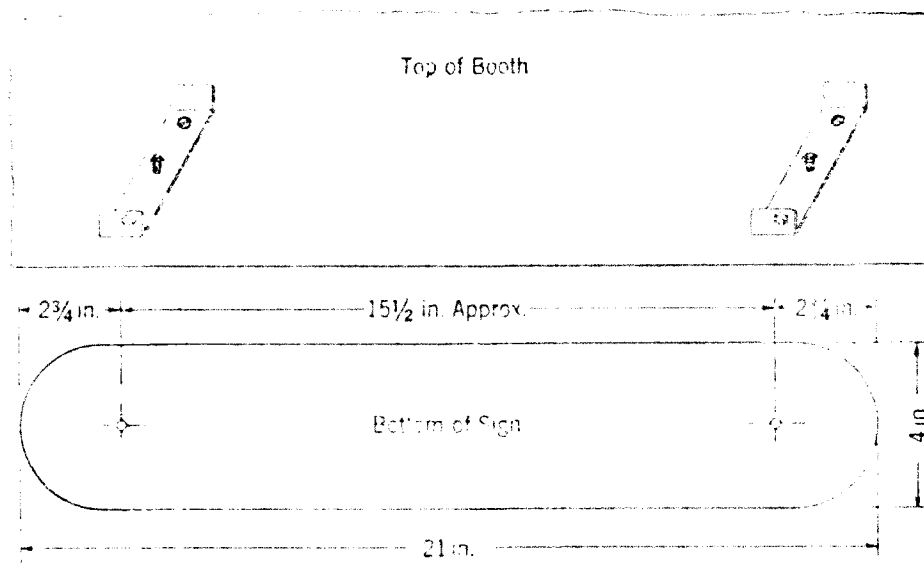
**Fig. 9—Installation of No. 8 Sign on Walls**

Note: When installing No. 8 wall fixture on other surfaces than wood the outlet box shall form part of a permanent conduit installation.

2.03 Space brackets for Nulite NU2-A sign on vertical and horizontal surfaces as shown in Figs. 10 and 11 respectively.

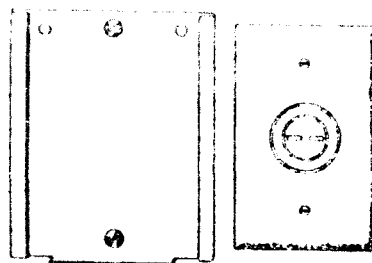


**Fig. 10—Installing Nulite 1 Brackets on Vertical Surface**



**Fig. 11—Installing Nulite 2 Brackets on Horizontal Surface**

2.04 Locate bracket for Nulite NU2-B sign near outlet as indicated in Fig. 12. If outlet location, height above floor, etc. permit, bracket may also be located directly beneath outlet. If wall surface is not plumb, use shims of cardboard or other thin material behind bracket so that sign will appear to be horizontal. If surface is irregular use backboard and increase length of fasteners accordingly.



**Fig. 12—Installing Bracket of NU2-B Sign**

2.05 Use two 3/4-inch No. 8 F.H. wood screws to attach Nulite 2 brackets to top of booth or wood shelf. Where required to raise sign above booth roof, place shims or wood blocks between brackets and roof.

2.06 Attach Nulite 1 brackets and bracket of NU2-B sign<sup>7</sup> to walls with the fasteners listed below. Unless otherwise noted in the table, use three fasteners in bracket of NU2-B sign and two in each of the Nulite 1 brackets.

<u>Surface</u>	<u>Fastener</u>
Hardwood	1-inch No. 14 R.H. wood screw
Softwood	1-1 2-inch No. 14 R.H. wood screw
Plaster on Wood Lath	2-inch No. 14 R.H. wood screw (2 required) see Note
Masonry (Unfinished)	1-inch No. 14 R.H. wood screw in No. 10-14 x 1-inch screw anchor
Masonry (Finished)	1-1 2-inch No. 14 R.H. wood screw in No. 10-14 x 1-inch screw anchor
Hollow Tile, etc.	1/4-inch x 4-inch R.H. toggle bolt (2 required)

Note: Place fasteners in studding. ↴

2.07 For top of booth installations, attach earlier type large Nulite sign to two small iron corner braces with the two bottom machine screws in the sign. Use 3 4-inch No. 8 F.H. Wood Screws to attach braces to booth roof. In some cases it may be necessary to replace the 3 8-inch No. 6-32 Machine Screws in sign backplate with 1 2-inch No. 6-32 screws. If sign is to be hung from wall or ceiling, obtain substantial brackets, chains and other material required locally.

### 3. INSTALLATION OF NOS. 9A, 9B, 50A and 50B SIGNS

- 3.01 Before placing sign in position on glass, clean glass thoroughly, removing all dirt and grease.
- 3.02 Wet entire sign and entire surface where sign is to be placed. See that sign is properly centered and that it is not more than 5 feet above floor or sidewalk.
- 3.03 Remove all surplus water and air from under sign with squeegee of cardboard or other suitable material. Clean ← up around and above sign with a soft cloth

**Caution: Do not apply these signs to freezing surfaces or when it is likely that freezing will occur before sign is thoroughly dry.**

- 3.04 Where the Nos. 21 and 22 signs are mounted on glass, the No. 9A sign may also be mounted on the reverse side of the glass to improve the appearance of the installation



#### 4. INSTALLATION OF BRONZE SIGNS ON BOOTHS

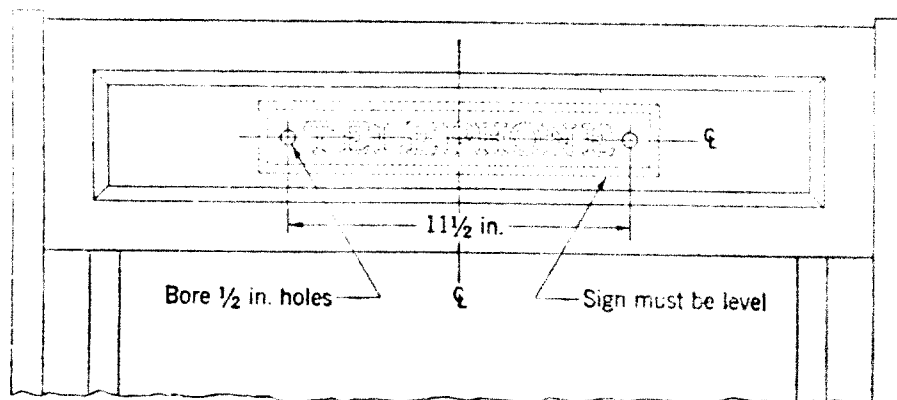


Fig. 13—Above Booth Door Rail

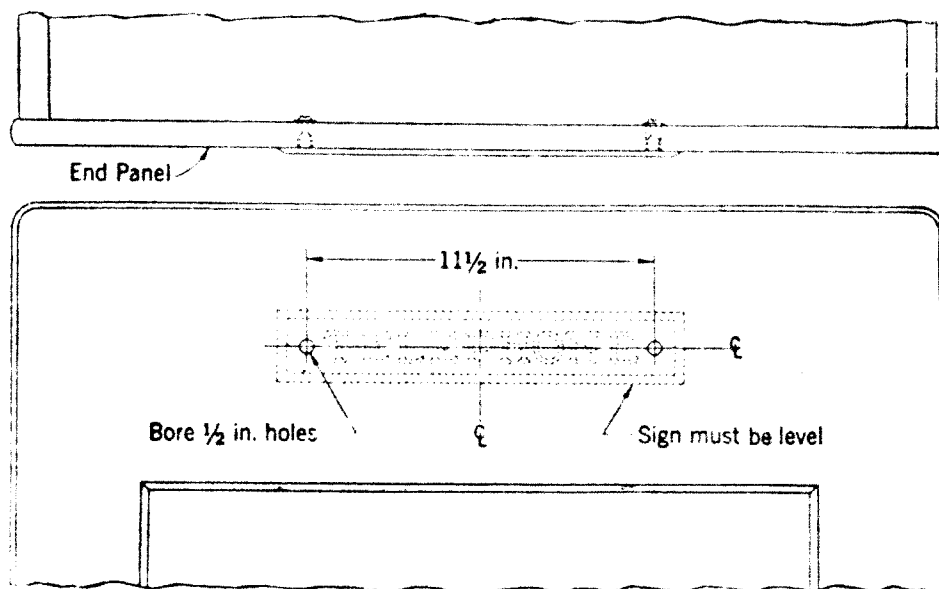


Fig. 14—On Booth End Panel

## 5. INSTALLATION OF NON-METALLIC SIGNS

5.01 Mount No. 60A and 60B signs above booth floor rail as shown in Fig. 15 or on booth end panel as shown in Fig. 16. Use two 1/2-inch No. 6 R.H. Blued Wood Screws to attach **sign**.

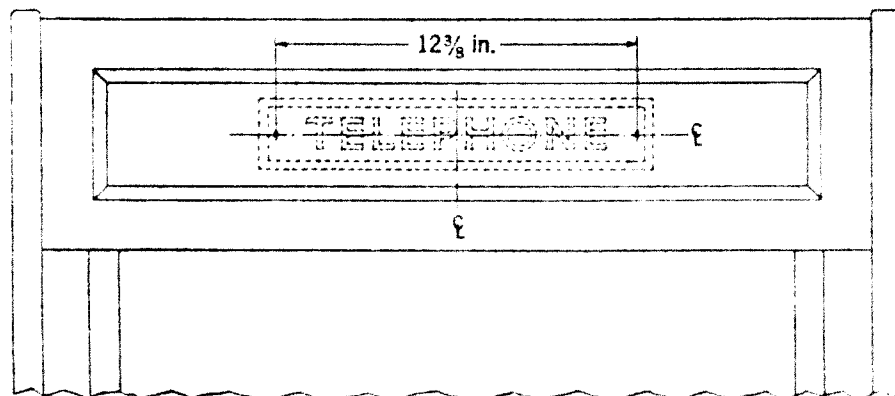


Fig. 15

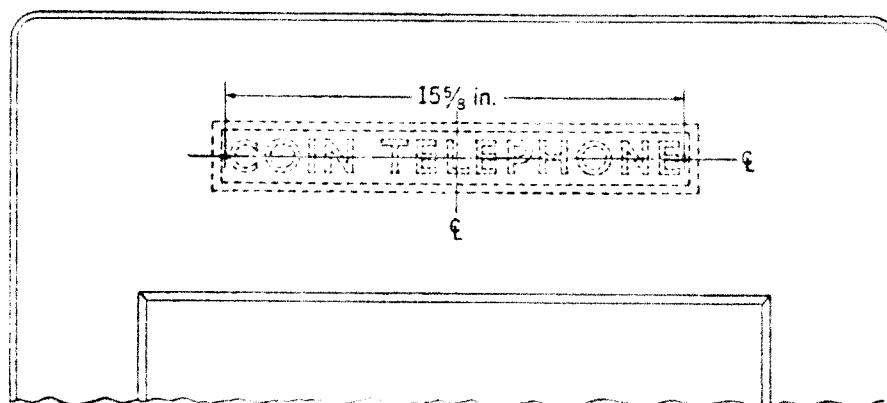


Fig. 16