

# BOOTH—UNIVERSAL (INDOOR-OUTDOOR) KS-16797 IDENTIFICATION AND INSTALLATION

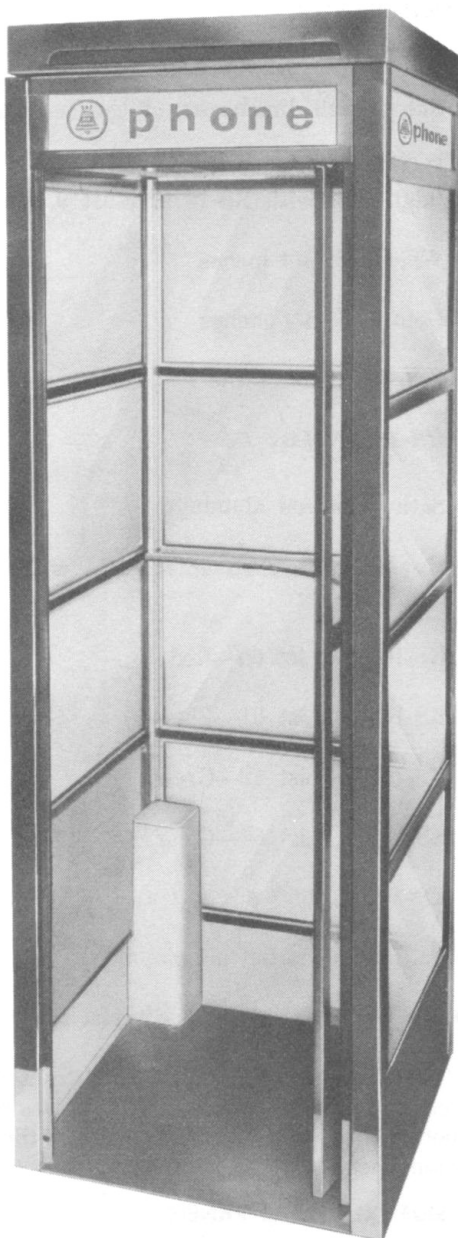


Fig. 1—KS-16797, List 1 Booth

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## 1. GENERAL

1.01 This section is reissued to:

- Make text, illustrations, and tables compatible with latest issue of specification KS-16797.
- Change part numbers from KS-16797 to KS-19425 and KS-19580 where parts are common to both booths.
- Change title
- Include information formerly contained in Section 508-230-200 which is hereby canceled.

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.02 The KS-16797 booth (Fig. 1) is a compact aluminum and glass telephone booth suitable for indoor or outdoor use in single or multiple installations. It is equipped with an aluminum alloy floor.

1.03 This booth is designed primarily for standup service; however, a KS-19425, List 11 seat assembly can be used if desired.

## 2. IDENTIFICATION

### BASIC BOOTH

2.01 The overall dimensions of the booth are:

- Height—86 inches (low roof) 87-1/2 inches (high roof with KS-16797, List 9 blower)
- Width—28-3/4 inches
- Depth—28-3/4 inches

2.02 Two versions of the basic booth are:

#### (a) *KS-16797, List 1*

- Satin anodized aluminum
- May be unfinished or finished with one of the following:  
KS-16797, List 60—Red  
KS-16797, List 61—Blue  
KS-16797, List 62—Green  
KS-16797, List 63—Clear

#### (b) *KS-16797, List 6*

- Polished anodized aluminum
- Not available in any additional finish

2.03 The door consists of two vertical sections, each containing two clear safety glass panels. The door is self-closing and folds along the right wall when opened.

### DOOR, SIDE, AND REAR PANELS

2.04 Door, side, and rear panels are available as described in Table A.

**SIGN PANELS**

**2.05** Sign panels and blanks are available as described in Table B.

**BOTTOM PANELS**

**2.06** Bottom panels are available as described in Table C.

**LIGHT FIXTURE**

**2.07** The booth and phone signs are illuminated by a KS-19207, List 6 light fixture (see Section 508-820-100). This light fixture replaces the older B-185379 light fixture assembly.

**2.08** The ceiling is equipped with a B-185369 plastic dome designed to cover the light fixture and exclude dirt and insects.

**DOMESTOP**

**2.09** A KS-20224 dome stop (Fig. 2), a spring loaded device, is available to mount along the door track (Fig. 3) to prevent the dome from falling when the fasteners are released.

**2.10** To lower the dome, push up on dome stop as shown in Fig. 4. After dome is lowered, release the stop.

**LIGHT CONTROL UNIT**

**2.11** A KS-19261, List 1 or List 2 light control unit may be used to switch the lamps on at darkness and off at daylight (see Section 508-825-100).

- KS-19261, List 1 provides automatic light control for booths equipped with KS-19207, List 6 light fixture.
- KS-19261, List 2 provides automatic light control for booths equipped with B-185379 light fixture assembly.



*One KS-19261 light control unit may be used to control the lights in multiple installations of five or less booths.*

**TABLE A**  
**DOOR, SIDE AND REAR PANELS, AND GLAZING STRIPS**

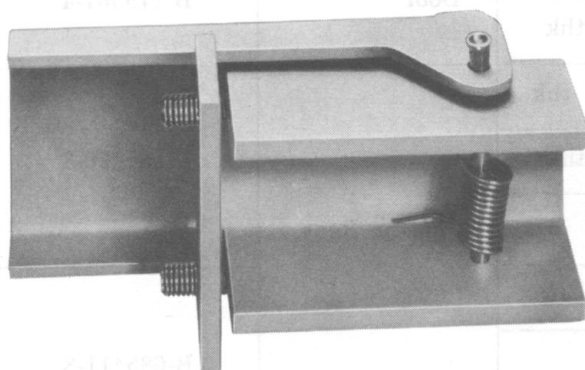
SPEC NO.	LIST NO.	DESCRIPTION		LOCATION	GLAZING STRIP
KS-14611	16	Satin Finished Aluminum (List 1 Booth only)		Side or Rear	B-685410-3
	18	Tempered Glass	7/32-in. thk	Door	B-179367-4
	75		1/4-in. thk		
KS-19580	10		7/32-in. thk	Side or Rear	B-685410-3
	11		1/4-in. thk		
	32	Polished Aluminum (List 6 Booth only)			
	93	Porcelain Enamel	Blue		B-685411-3
	94		Gray		
	95		Red		

**TABLE B**  
**SIGN PANELS AND GLAZING STRIPS**

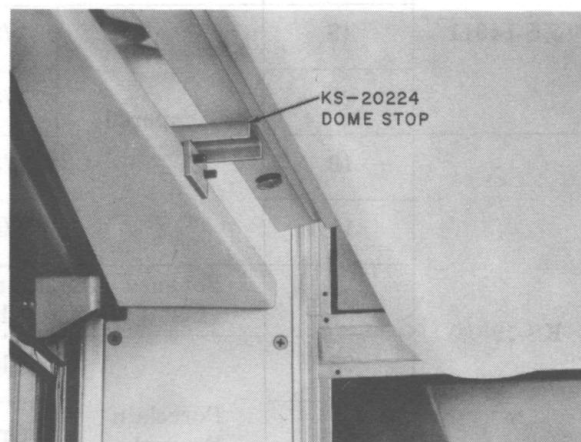
SPEC NO.	LIST NO.	DESCRIPTION		LOCATION	GLAZING STRIP
		LETTERS	BACKGROUND		
KS-14611	101	White	Blue	Front	B-179367-1
	102	Blue	White		
	105	None	White		
	106	None	Blue		
	103	White	Blue	Rear and Sides	B-179367-2
	104	Blue	White		
	107	None	White		
	108	None	Blue		
	35	Solid Aluminum Blank			

**TABLE C**  
**BOTTOM PANELS**

SPEC NO.	LIST NO.	DESCRIPTION	REMARKS	
KS-14611	53	Side or Rear	Solid	For use in List 1 booth
	55		Short	
KS-19580	38		Short	For use in List 6 booth
	40		Solid	



**Fig. 2—KS-20224 Dome Stop**



**Fig. 3—KS-20224 Dome Stop, Installed**

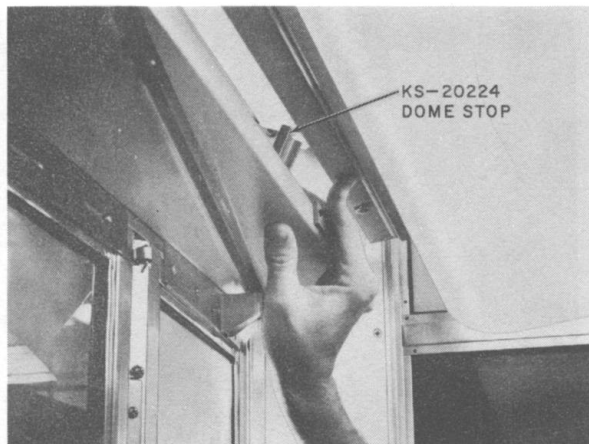


Fig. 4—Releasing Dome Stop

**SHELF AND DIRECTORY ARRANGEMENTS**

2.12 Shelf assemblies, directory racks, and associated apparatus are listed in Table D and shown in Fig. 5 through 7.

**SEAT**

2.13 A KS-19425, List 11 seat assembly (Fig. 5) may be used if desired.

2.14 A KS-19425, List 12 mounting plate (Fig. 5) must be used for mounting the seat.

**JUNCTION BOX**

2.15 The KS-16797, List 21 (for List 1 booth) or List 121 (for List 6 booth) junction box kit (Fig. 8) can be installed in the bottom left rear corner of the booth. It is used for underground or ground level power and telephone wire entrances. The kit includes two power leads and a divided rectangular conduit for enclosing wire from junction box to ceiling.

2.16 A double-pole single throw circuit breaker may be installed in the junction box if required. The circuit breaker must be ordered separately from Heinemann Electric Co., No. 2912, 10 amp, 120 volts ac, time delay curve -3.

2.17 Facilities are provided for mounting a 123A1A telephone protector in the junction box.

**BLOWER**

2.18 Booth ventilation is provided by use of a KS-16797, List 9 blower assembly (Fig. 9). The assembly includes an interlock switch mounted in the door track to control the operation of the blower when opening and closing the booth door. A customer-controlled switch is also part of the

TABLE D

**SHELF ASSEMBLIES, DIRECTORY RACKS, AND ASSOCIATED APPARATUS**

SPEC NO.	LIST NO.	DESCRIPTION	REMARKS
KS-19425	11	Seat Assembly (Fig. 5)	
	12	Mounting Plate (Fig. 5)	For mounting seat assembly
	13	Directory Shelf (Fig. 5)	Externally mounted for indoor use. Makes provisions for mounting the KS-6472 and KS-6538 directory fasteners
	14	Mounting Plate (Fig. 5)	For mounting KS-19425, L13 directory shelf
	16	Directory Rack (Fig. 6)	For mounting directory in left-rear corner. Large enough to accommodate one 3-inch binder
	26	Shelf Assembly (Fig. 6)	For use with List 16 directory rack
	27	Shelf Assembly (Fig. 7)	Writing Shelf
KS-20030	3	Directory Hanger (Fig. 7)	For single binder

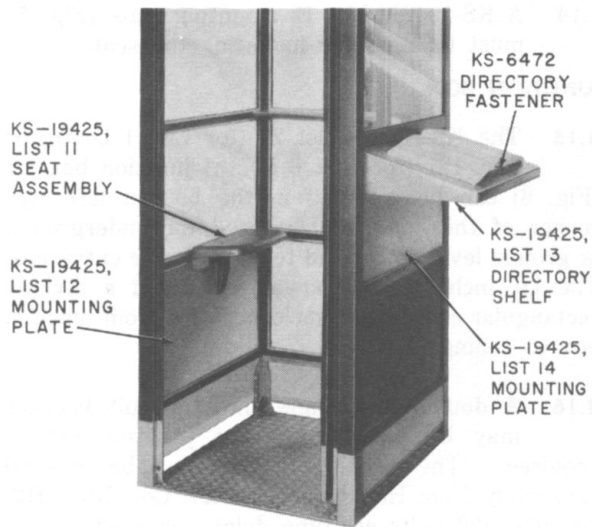


Fig. 5—KS-19425, List 11 Seat Assembly, KS-19425, List 13 Director Shelf, and Associated Mounting Plates

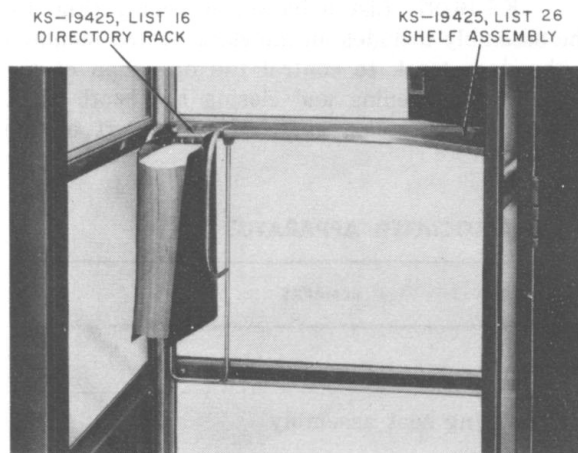


Fig. 6—KS-19425, List 16 Directory Rack and KS-19425, List 26 Shelf Assembly

List 9 blower assembly; this switch is mounted on the right column behind the booth door.

**2.19** KS-16797 booths are supplied with the low profile roof (1-1/2 inches lower than the higher type) as the standard roof. However, when booths are equipped with the List 9 blower, the higher type roof is required.

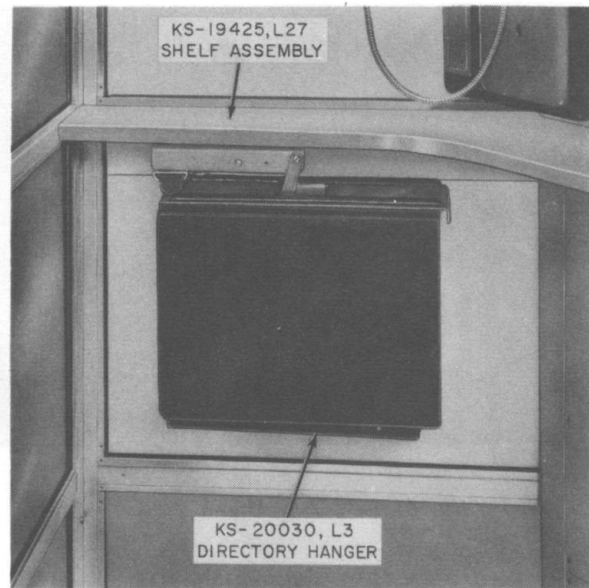


Fig. 7—KS-19425, List 27 Shelf Assembly With KS-20030, List 3 Directory Hanger

#### POWER CORD ASSEMBLIES

**2.20** Three power cords are available.

(a) *KS-19425, List 22 (Fig. 10)*

- Used to bring overhead power into an *indoor* booth.
- Used to interconnect power to adjacent booths in multiple installations *which do not have blowers*.

(b) *KS-19580, List 30 power cord assembly (Fig. 11)*

- Used to bring overhead power into an *outdoor* booth.

(c) *KS-16797, List 14 cable assembly (Fig. 12).*

- Used to interconnect power to adjacent booths in multiple installations which are equipped with blowers.

#### FOUNDATION TEMPLATE

**2.21** A KS-16797, List 7 foundation template (Fig. 13) is used to facilitate mounting of booth on a concrete foundation.

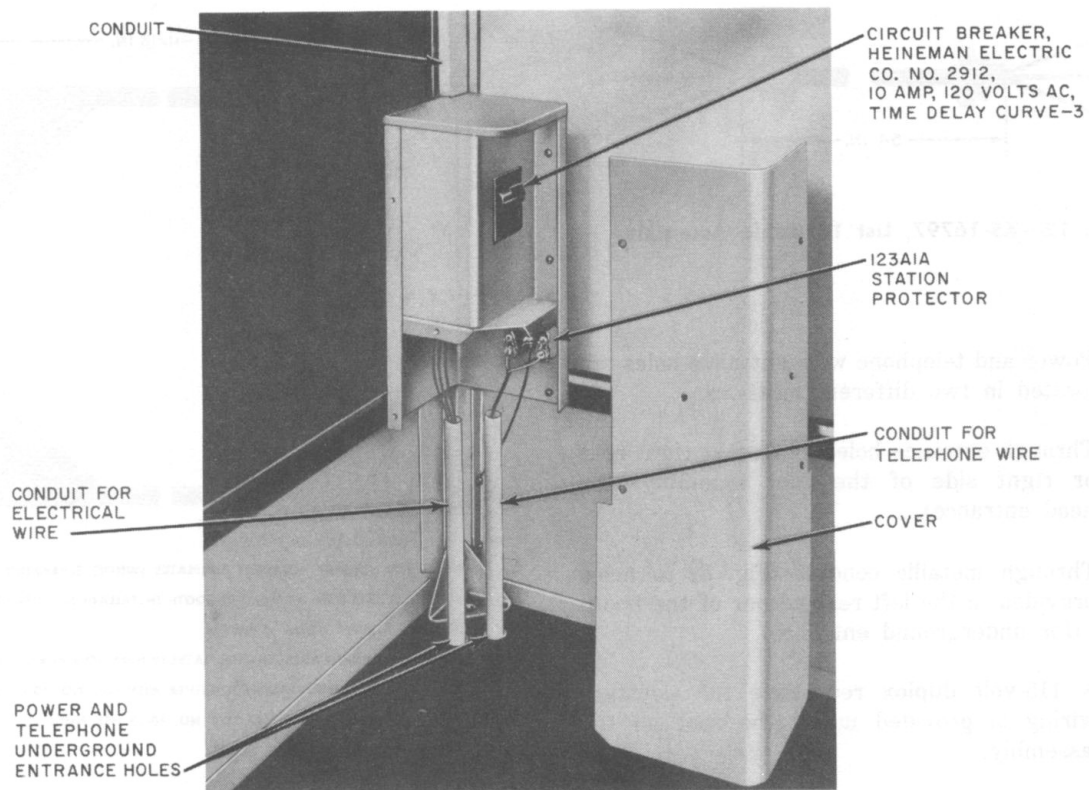


Fig. 8—Circuit Breaker and Associated Apparatus

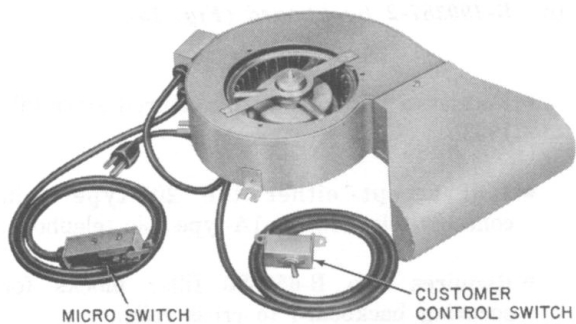


Fig. 9—KS-16797, List 9 Blower Assembly

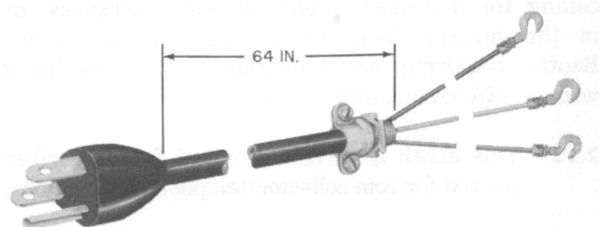


Fig. 10—KS-19425, List 22 Cable Assembly

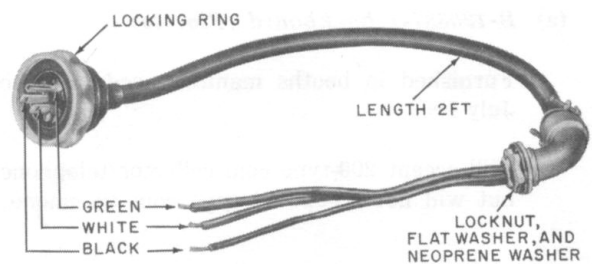


Fig. 11—KS-19580, List 30 Power Cord Assembly



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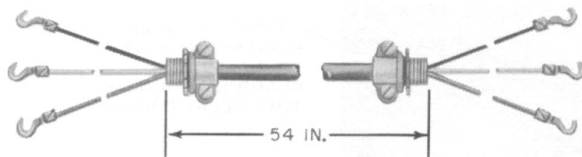


Fig. 12—KS-16797, List 14 Cable Assembly

### WIRING

**2.22** Power and telephone wire entrance holes are located in two different locations:

- (a) Through entrance holes located at right rear or right side of the roof assembly (for overhead entrance).
- (b) Through metallic conduit (Fig. 8) to holes provided in the left rear corner of the booth floor (for underground entrance).

**2.23** A 115-volt duplex receptacle for electrical wiring is provided under the roof on the ceiling assembly.

**2.24** Electrical protection (for telephone line) is provided by a 123A1A protector. The protector is installed either under the roof on the ceiling for overhead telephone wire entrances, or in the junction box for underground entrances. Booths requiring no protection can be equipped with a 42A connecting block.

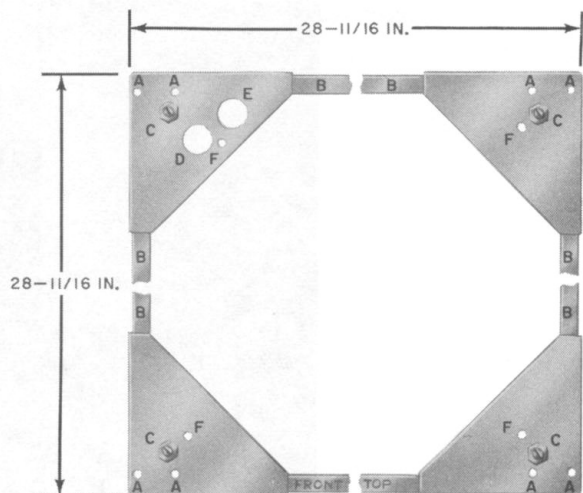
**2.25** This booth is furnished wired for subscriber set and for coin collector/telephone connections.

### BACKBOARDS

**2.26** Two different backboards have been used in this booth.

#### (a) *B-190387-1 backboard (Fig. 14)*

- Furnished in booths manufactured prior to July 1963.
- Will accept 200-type coin collector/telephone but will not accept 1A-type coin telephone.



- A— HOLES FOR JOINING ADJACENT TEMPLATES (WHERE SEPARATION BETWEEN BOOTHS IS REQUIRED) AT MULTIPLE BOOTH INSTALLATIONS. USE STEEL STRAP AND NO. 8 SHEET METAL SCREWS.
- B— HOLES FOR JOINING ADJACENT TEMPLATES (WHERE NO SEPARATION BETWEEN BOOTHS IS REQUIRED). FASTEN TOGETHER WITH TWO NO. 10 (.190)-32-x1/2 INCH RHM STEEL SCREWS AND TWO NO. 10-32 HEX NUTS.
- C— BOOTH MOUNTING INSERTS.
- D— POWER INLET.
- E— TELEPHONE INLET.
- F— NAIL HOLES FOR ATTACHING WOOD POSITIONING BLOCKS.

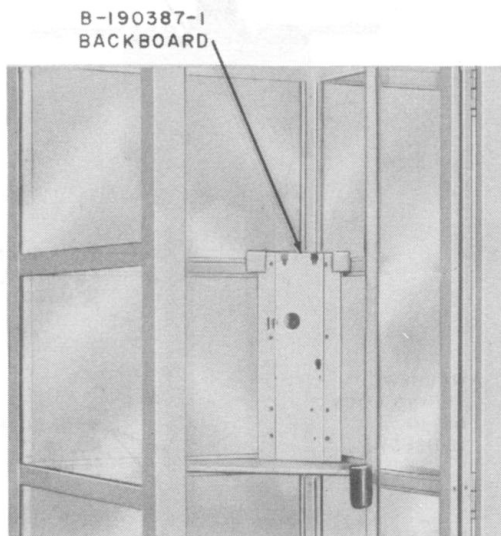
Fig. 13—KS-16797, List 7 Template

#### (b) *B-190387-2 backboard (Fig. 15)*

- Furnished in booths manufactured after July 1963.
- Will accept either the 200-type coin collector/telephone or 1A-type coin telephone.
- Requires two B-650326 filler blocks for securing backboard to cross rails.

**Note:** If the B-190387-1 backboard is replaced by a B-190387-2 backboard, filler blocks must be ordered separately.





**Fig. 14—KS-16797 Booth With B-190387-1 Backboard Installed**

#### **MULTIPLE INSTALLATION KIT**

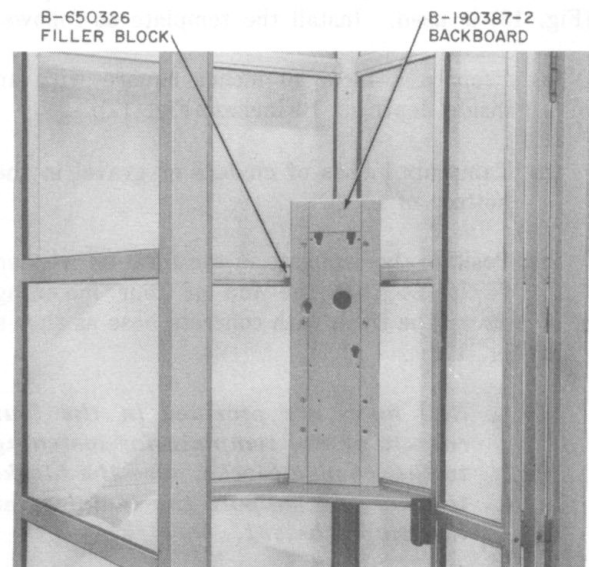
**2.27** A KS-16797, List 11 multiple kit (Fig. 16) is available for side-by-side or back-to-back assemblies. It consists of the following:

- Two KS-16797, List 12 sign blanks
- Four KS-19425, List 18 frames
- Two KS-14611, List 53 bottom panels (for List 1 booth)
- Two KS-19580, List 40 bottom panels (for List 6 booth).

### **3. INSTALLATION**

**3.01** Booth location should be:

- Within full view of public



**Fig. 15—KS-16797 Booth With B-190387-2 Backboard Installed**

- Readily accessible to customer
- Free of such hazards as broken or uneven pavements
- Spaced with a minimum clearance of 6 inches from property lines and buildings
- Placed with as little step-up as possible but still maintaining proper drainage
- Protected by bumper guards (outdoor only).

**3.02** KS-16797 booth requires anchoring at all outdoor installations. Anchoring at indoor locations is desired; however, this may not be possible in some instances.

**3.03** For proper operation of the coin collector/telephone the surface upon which the booth is installed must be smooth and level. At indoor locations, shims may be placed under the floor to correct minor differences. A concrete

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base can be provided at outdoor locations. Use a level to check that booth is plumb.

### FOUNDATION TEMPLATE

**3.04** When necessary to provide a concrete base, a KS-16797, List 7 foundation template (Fig. 13) is used. Install the template as follows:

- Prepare a form 40 inches square with an inside depth of 10 inches (Fig. 17).
- Tamp six inches of cinders or gravel in the bottom of form.
- Position the template in the form on wooden blocks so that the top of four mounting inserts will be flush with concrete base as shown in Fig. 17.



*Nail holes are provided in the four corners of the template for fastening to the wooden blocks. Use the blocks to level and support the template at the proper height.*

- If underground power and telephone wires are to be used, provide for holes in the concrete base at the positions of corresponding holes in the template.

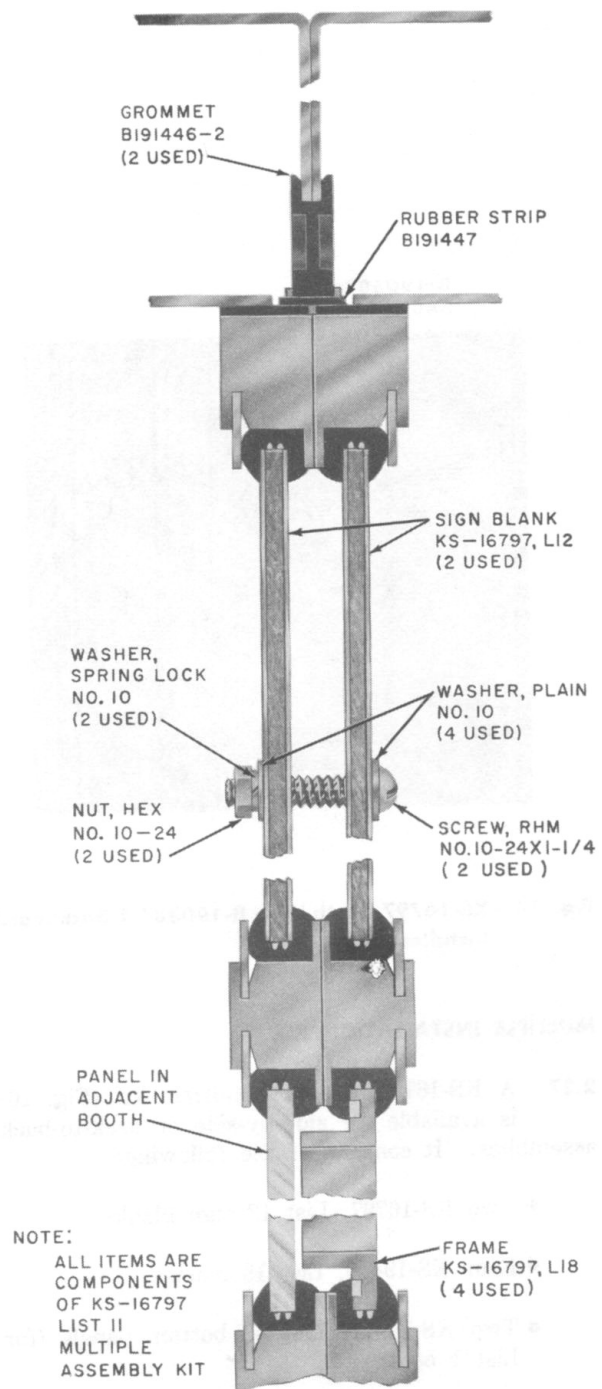


*Do not remove screw plugs from booth mounting inserts until booth is installed. Their purpose is to prevent dirt from filling mounting holes.*

- Pour concrete around the template to fill the form.
- For multiple booth installations, where no separation between booths is required, fasten adjacent templates together with two No. 10-32 by 1/2 RHM screws and two No. 10-32 hex nuts.
- For multiple booth installations, where separation of booths is required, fasten adjacent templates together with steel straps and No. 8 sheet metal screws.

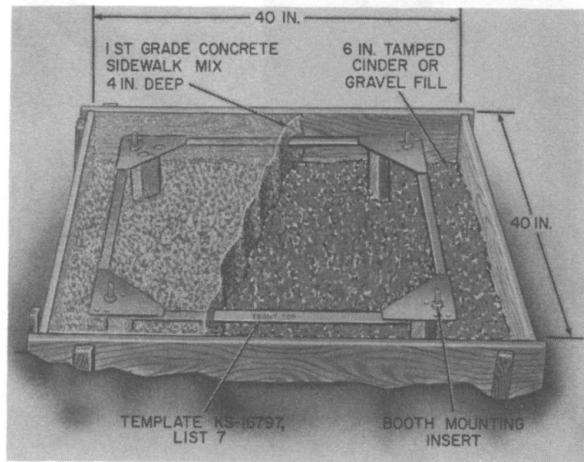
### SECURING BOOTH TO MOUNTING SURFACE

**3.05** If a KS-16797, List 7 foundation template is used, remove insert plugs from template and secure anchoring brackets (Fig. 18) to template



**Fig. 16—KS-16797, List 11 Multiple Kit**

using four 3/8-16 by 1-1/4 hex head bolts, four 3/8-inch lockwashers, and four 3/8-inch flatwashers.



**Fig. 17—Concrete Base Preparation With KS-16797, List 7 Template**

**3.06** If a KS-16797 List 7 foundation template is not used, and the booth is to be mounted on concrete, perform the following operations:

- (1) Mark the locations for four mounting holes.
- (2) Drill the four holes to accept masonry fasteners for 3/8-16 by 1-1/4 bolts.
- (3) Install the masonry fasteners. See section on masonry fasteners.
- (4) Secure anchoring brackets of booth to masonry fasteners using four 3/8-16 by 1-1/4 hex head bolts, four 3/8-inch lockwashers and four 3/8-inch flatwashers.

**3.07** If booth is to be mounted on a wooden floor, perform the following operations:

- (1) Mark the location for four mounting holes.
- (2) Drill four lead holes to accommodate 5/16 by 2-1/2 inch lag screws.
- (3) Secure booth to floor using four 5/16 by 2-1/2 inch lag screws, four 5/16-inch lockwashers, and four 5/16-inch flatwashers.

## DOOR REQUIREMENTS

**3.08** After anchoring and leveling booth, check door for the following:

- (a) At outdoor locations, the door is usually adjusted to remain open 2 to 3 inches when the booth is not being used. If desired, this adjustment can be changed so the door will remain closed.
- (b) At indoor locations, the hinge spring is not engaged and the normal door position is fully open when the booth is not being used.
- (c) When pushed closed from inside, the door should remain completely closed. A slight pull on the handle should open the door and restore it to its normal open position.
- (d) See Section 508-230-300 for door adjustments.

## TELEPHONE WIRING



*Aerial wire spans fastened to booth should not exceed 25 feet.*

### First Attachment

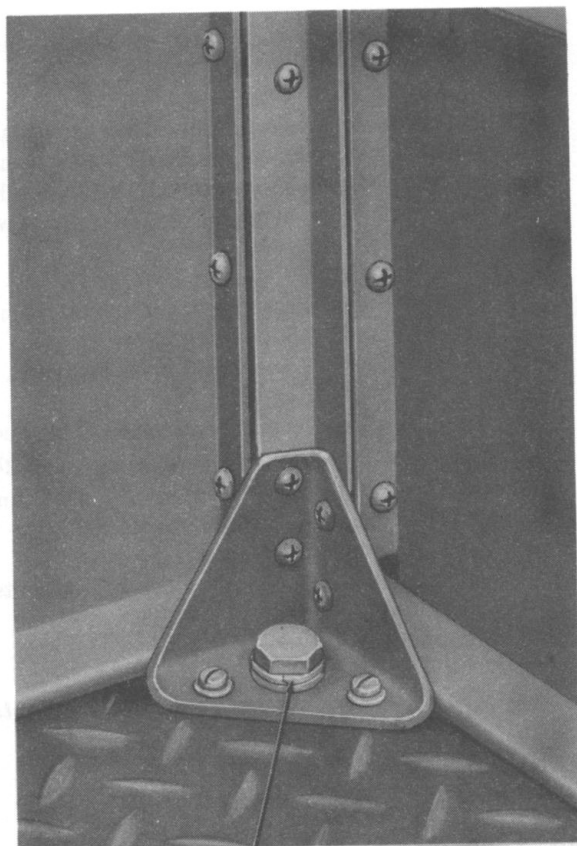
**3.09** At outdoor locations, attach drop wire hook or corner bracket on the right rear or right side column directly below the wire entrance hole as follows:

### Drop Wire Hook (Fig. 19)

- (1) Drill 11/32-inch hole 2 inches below top of column and 1 inch from outside corner.
- (2) Attach drop wire hook with 5/16 by 2-inch stove bolt, 3/8-inch corrosion resistant washers and 5/16 hex nut.

### Corner Bracket (Fig. 20)

- (1) Drill 11/32-inch hole two inches below top of column and 1 inch from outside corner. Use corner bracket to determine exact location and drill second hole.



3/8-16 X 1-1/4 HEX-HD BOLT, 3/8-INCH LOCKWASHER, 3/8-INCH FLAT WASHER (FOR MASONRY FASTENERS)  
2-1/2 INCH LAG SCREW, 5/16 INCH LOCKWASHER, 5/16 INCH FLAT WASHER (FOR WOODEN FLOORS)

Fig. 18—Anchoring Bracket

- (2) Attach corner bracket with two 5/16 by 2-inch stove bolts, two 3/8-inch corrosion resistant washers, and two 5/16 hex nuts.

#### Drop Wire Connection

- 3.10 Insert drop wire through entrance hole and terminate on 123A1A station protector or 42A connecting block (whichever is required).
- 3.11 The 123A1A station protector or 42A connecting block is located under the roof



Fig. 19—Drop Wire Hook for First Attachment

on the ceiling assembly for overhead wire entrances. For underground entrance, mounting holes have been provided in the List 21 or List 121 junction box for mounting the 123A1A station protector.

#### Station Connections

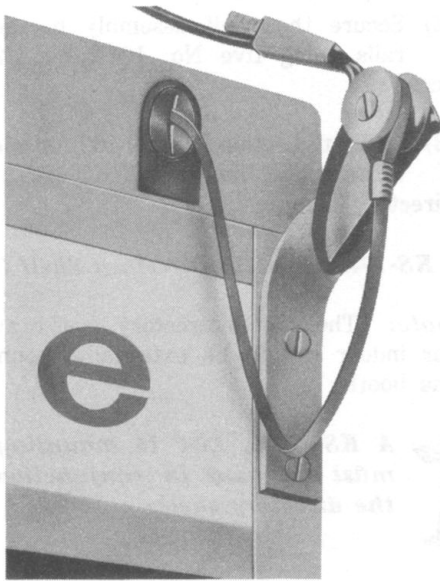
- 3.12 Station connection wires are furnished as shown in Fig. 21. Complete connections for the specific coin collector/telephone and subscriber set used are covered in sections entitled Coin Collectors, Connections, and sections entitled Subscriber Sets, Connections.

#### ELECTRICAL WIRING AND GROUNDING

- 3.13 Electrical grounding of the booth is covered in Section 508-100-100.

#### Wiring

- 3.14 Bring overhead power into an indoor booth with a KS-19425, List 22 cable assembly (Fig. 10).
- 3.15 Bring overhead power into an outdoor booth with a KS-19580, List 30 power cord assembly (Fig. 22).



**Fig. 20—Corner Bracket for First Attachment**

**3.16** Interconnect power between adjacent booths in multiple installations with a KS-16797, List 14 cable assembly (Fig. 12).

**3.17** Refer to Fig. 23 for optional methods of electrical wiring.

#### **Grounding**

**3.18** Ensure that the ground terminal of the station protector is connected to the booth with bonding wire provided. If a bonding wire is not present, use an approved No. 14 gauge wire.

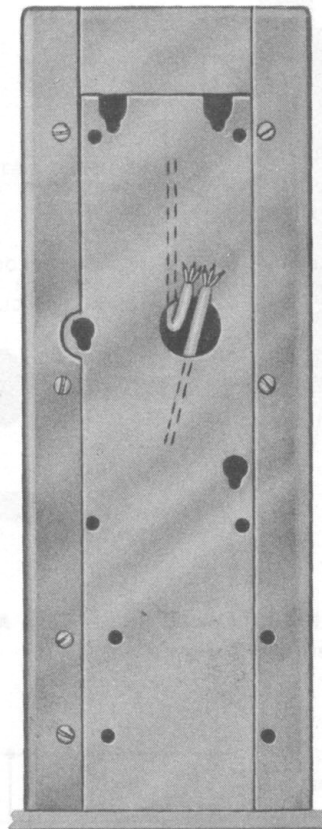
**3.19** In multiple installations, bond the booths together for grounding purposes.

#### **DIRECTORY RACK AND SHELF ARRANGEMENTS**

**3.20** There are two shelf assemblies, a directory rack, a directory hanger and a directory shelf available for the booth. Install, when required, as follows (See Table D and Fig. 5 through 7):



*Use KS:19094 antiseize compound on all screws threaded into aluminum.*



**Fig. 21—Station Connections**

(a) **KS-19425, List 16 directory rack and KS-19425, List 26 shelf assembly. (Fig. 6).**

**Note:** The List 16 directory rack accommodates one 3-inch binder in the left-rear corner of the booth. The List 26 shelf assembly fastens to the directory rack and extends across the back of the booth and under the coin telephone.

(1) Secure the directory rack to the cross rails in the left-rear corner using two No. 10-32 by 1/2 Phillips FHM screws and two No. 10 CSK lockwashers.

(2) Secure the shelf assembly to the bottom of the backboard and to the cross rails using five No. 10-32 by 1/2 RHM screws.



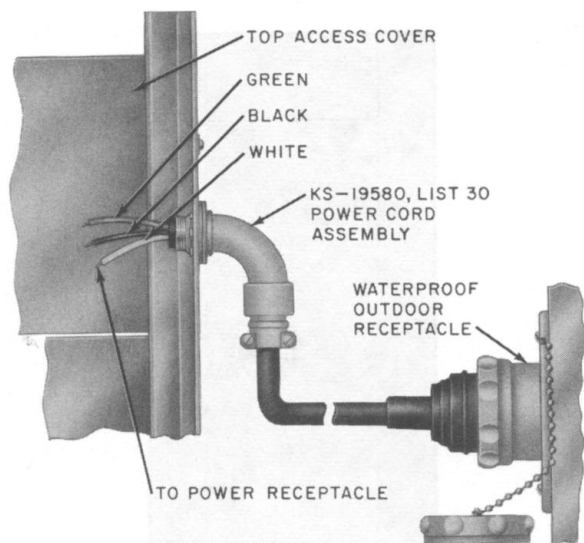


Fig. 22—KS-19580, List 30 Power Cord Assembly for Overhead Entrance

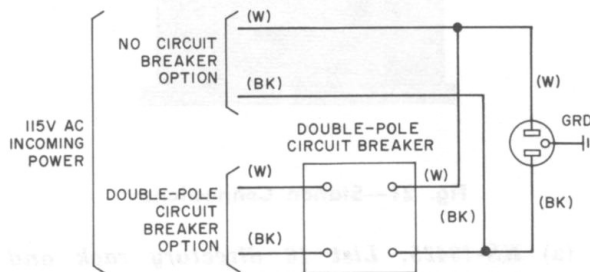


Fig. 23—Power Connections

- (3) Secure the shelf assembly to the directory rack using the screw furnished with the directory rack.

(b) **KS-19425, List 27 Shelf Assembly and KS-20030, List 3 Directory Hanger (Fig. 7)**

**Note:** The List 27 shelf assembly spans the rear wall and can be used separately, or with a KS-20030, List 3 directory hanger.

- (1) Secure the shelf assembly to the backboard using two No. 10-32 by 1/2 RHM screws.

- (2) Secure the shelf assembly to the cross rails using five No. 10-32 by 1/2 RHM screws.

- (3) Refer to Section 508-710-102 for additional information on the KS-20030, List 3 directory hanger.

(c) **KS-19425, List 13 Directory Shelf (Fig. 5)**

**Note:** The List 13 directory shelf is available for indoor use to be externally mounted on the booth.



**A KS-19425, List 14 mounting plate must be used in conjunction with the directory shelf.**

- (1) Install KS-19425, List 14 mounting plate in the same manner as a standard glass panel in the bottom position on the right side of the booth. Install the plate with shelf mounting holes toward top.

- (2) Secure the directory shelf to the mounting plate using seven No. 10-24 by 9/16 carriage bolts and seven No. 10-24 stop nuts.



**Install the bolts with the heads on inside of booth.**

## SEAT ASSEMBLY

- 3.21** A KS-19425, List 12 mounting plate (Fig. 5) must be used for mounting the seat.

- 3.22** Install KS-19425, List 12 mounting plate as follows:

- (1) Install the mounting plate in the same manner as a standard glass panel in the bottom position on the left side of the booth.

- (2) Install a B-650894 clip (furnished with seat assembly) on each corner of the List 12 mounting plate using four No. 8-32 by 3/8 SEMS RHM screws.



**Install the clips on the inside of the booth. Their purpose is to prevent the removal of retaining strips.**

**3.23** Install the seat assembly on the upper portion of the mounting plate using the following items (furnished with seat assembly). Install items in the sequence listed.

- Four 1/4-20 by 1-1/8 carriage bolts (install with heads on outside of booth)
- Four B-650893 spacers
- Seat assembly
- Two 1/4-inch flatwashers (front and rear bolts)
- Four 1/4-inch lockwashers
- Four 1/4-20 cap nuts

**3.24** Tighten all nuts securely.

#### **MULTIPLE INSTALLATIONS**

**3.25** Perform the following operations for installing multiple booths:

- (1) Install the first booth in the same manner outlined in 3.01 through 3.24.
- (2) Install the second booth adjacent to the first booth.



*The second booth will not have glass panels and telephone sign in the side which joins the first booth.*

- (3) Join the two booths together using a KS-16797, List 11 multiple kit (Fig. 16). The frames are installed in the same manner as the glass panels.
- (4) Push wires through the grommets, and complete the wiring of all booths.
- (5) Remove backing from the rubber sealing strip. Place the sealing strip along the joint between the two joining booths.
- (6) Remove the knockouts from the joining sides of the booth roofs.
- (7) Put one roof back in place. Insert the grommets in the knockout spaces. Install next roof. Be sure that each grommet seals the knock-out spaces. Tighten the roofs.
- (8) On outdoor installations only, seal the top joint between adjoining roofs with caulking compound.