

## KS-19580 BOOTH (OUTDOOR) INSTALLATION

### 1. GENERAL

- 1.01 This section is reissued to revise illustrations to include new phone signs.
- 1.02 The overall dimensions of the booth (Fig. 1) are:
- Height—83-1/8 inches
  - Width—33-1/2 inches
  - Depth—33-1/2 inches (front sign projects 1-1/2 inches beyond this dimension)

### 2. INSTALLATION OF BASIC BOOTH

- 2.01 Booth location should be:
- Within full view of public
  - 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 and still maintaining proper drainage.
- 2.02 The KS-19580 booth requires anchoring at all installations.

### INSTALLATION OF FOUNDATION TEMPLATE

- 2.03 When necessary to provide a concrete base, a KS-19580, List 28 foundation template is used. See Section 508-354-100. Install the template as follows:
- (a) Prepare a form 40 inches square with an inside depth of 10 inches (Fig. 2).

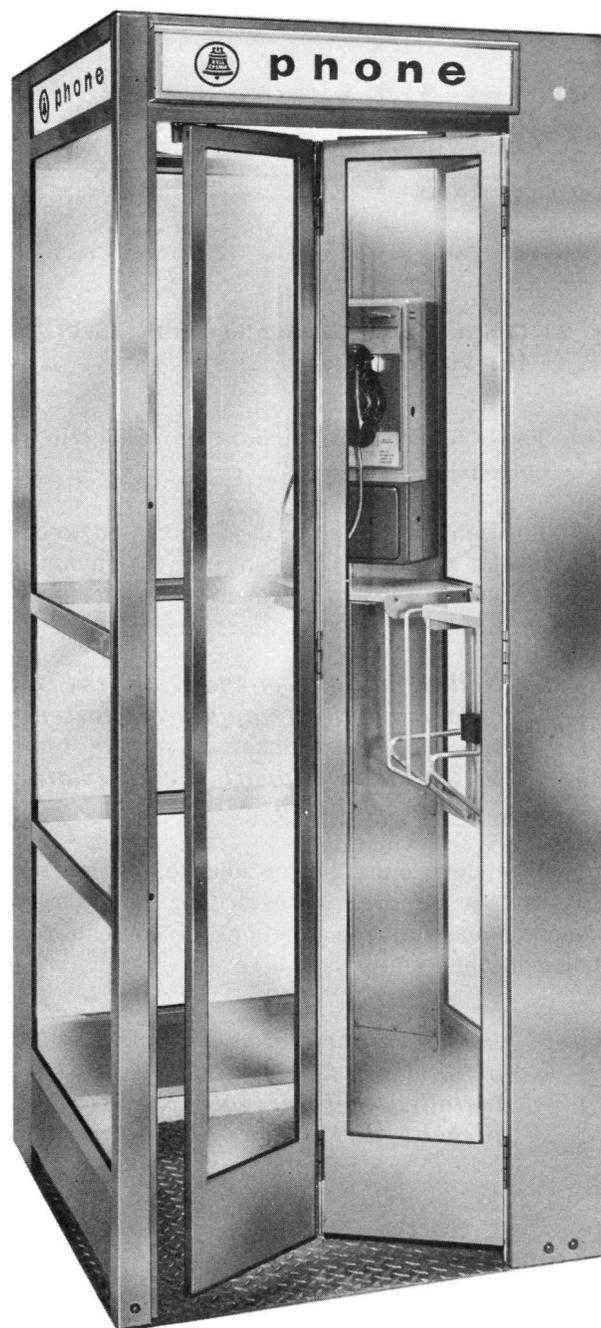
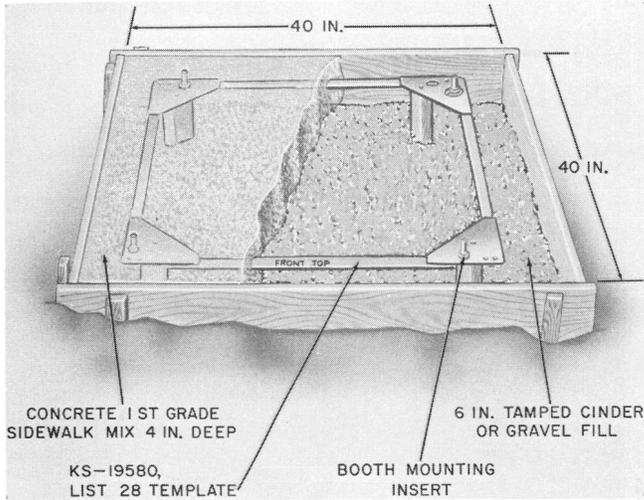


Fig. 1—KS-19580 Booth (Outdoor)



**Fig. 2—Concrete Base Preparation with KS-19580, List 28 Template**

- (b) Tamp 6 inches of cinders or gravel in the bottom of form.
- (c) 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. 2.



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

- (d) 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.



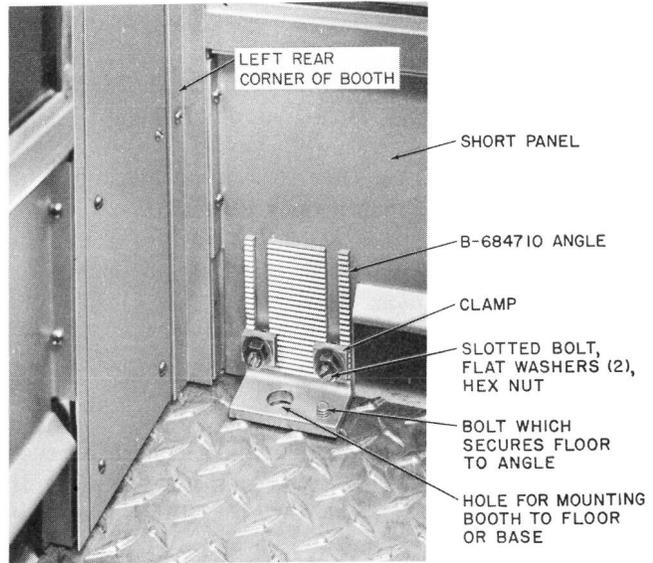
*Do not remove screw plugs from booth mounting inserts until booth is installed. Their sole purpose is to prevent dirt from filling mounting holes.*

- (e) Pour concrete around the template to fill the form.
- (f) 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 hex nuts.

- (g) For multiple booth installations, where separation of booths is required, fasten adjacent templates together with steel straps and No. 8 sheet metal screws.
- (h) For each additional booth, lengthen the form by approximately 33-1/2 inches.

**2.04 Secure booth as follows:**

- (a) If a KS-19580, List 28 foundation template is used, remove insert plugs from template and secure anchor brackets (Fig. 3) of booth to template using four 3/8-16 by 1-1/4 hex head bolts, four 3/8-inch lockwashers and four 3/8-inch flatwashers.
- (b) If a KS-19580, List 28 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.



**Fig. 3—Anchor Bracket and Leveling Device**

- (4) Secure anchor 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.
- (c) 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 the four 5/16 by 2-1/2 inch lag screws, four 5/16-inch lockwashers, and four 5/16-inch flatwashers.
- (d) Adjust the anchor brackets (Fig. 3) if necessary, and ensure that the booth is level.

### DOOR REQUIREMENTS

- 2.05** After anchoring and leveling booth, check door for the following:
- (a) Door remains open 2 to 3 inches when it is at normal position.
  - (b) When pushed closed from inside, the door should remain completely closed.
  - (c) A pull on the handle should open and restore the door to normal position.
  - (d) See Section 508-354-300 for door adjustment.

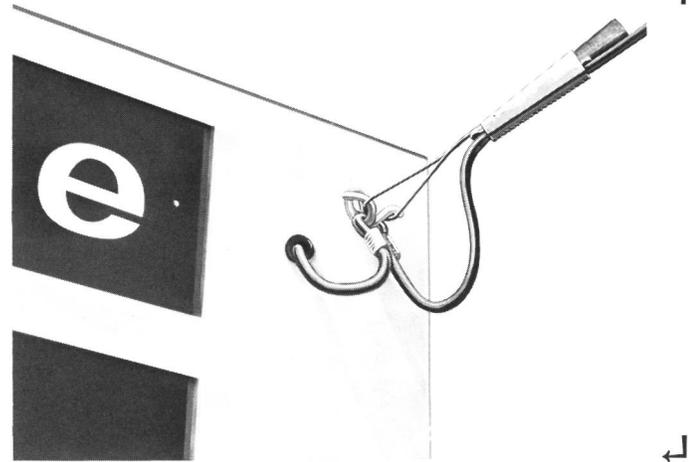
### 3. TELEPHONE WIRING



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

#### FIRST ATTACHMENT

- 3.01** Attach drop wire hook (Fig. 4) or corner bracket (Fig. 5) (whichever is required) on right rear column adjacent to the entrance hole as follows:



**Fig. 4—Drop Wire Hook for First Attachment**



**Fig. 5—Corner Bracket for First Attachment**

#### A. Drop Wire Hook

- (1) Secure drop wire hook (Fig. 4) to clinch nut (provided with booth) using one 1/4-20 by 3/4 FHM screw, one 1/4-inch flatwasher and one 1/4-inch lockwasher.

#### B. Corner Bracket

- (1) Secure the corner bracket (Fig. 5) to the threaded clinch nut using one 1/4-20 by 3/4 Phillips RHM screw.

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(2) Using the bracket as a template, drill a clearance hole for using another 1/4-inch screw.

(3) Further secure the bracket to the booth using one 1/4-20 by 3/4 Phillips RHM screw, one 1/4-inch flatwasher, one 1/4-inch lockwasher, and 1/4-inch hex nut.

### DROP WIRE

**3.02** Telephone wire entrance holes are located in the following locations.

- Top-rear of right-side column
- Bottom-rear of right-side column
- Through metallic conduit to holes provided in the right-rear corner of the booth floor.

**3.03** Feed drop wire through entrance hole and terminate on 123A1A station protector.



*The protector is located in the top of the right-rear corner behind an access plate; however, it may be moved to the bottom of the right-rear corner if ground level or underground entrance is used. If the protector is located in the ceiling area, the roof must be removed for accessibility.*



*The KS-19580 booth is equipped with bonding wires at both drop wire entrances. Before proceeding, check that one end is secured to the booth and the other end is terminated on the 123A1A protector.*

### COIN STATION CONNECTIONS

**3.04** Station connection wires are furnished as shown in Fig. 6. Complete connections are covered in sections entitled Coin Collectors, Connections, and sections entitled Subscriber Sets, Connections.

## 4. ELECTRICAL WIRING AND GROUNDING

**4.01** Electrical wiring and grounding of the booth is covered in Section 508-100-100.

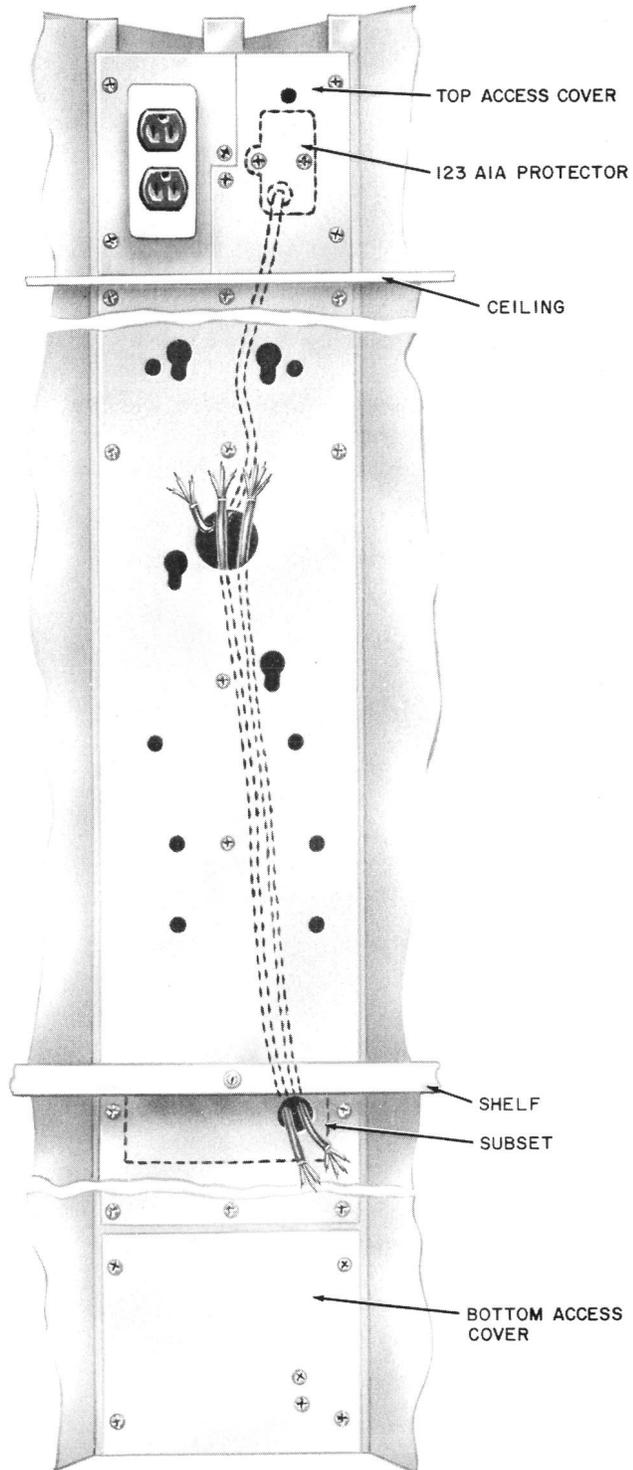


Fig. 6—Station Wiring

**WIRING**

**4.02** Power wire entrance holes are located in the following locations:

- Top of right-rear column
- Bottom of right-rear column
- Through metallic conduit to holes provided in the right-rear corner of the booth floor.

**4.03** For overhead entrance with plug-in features, use KS-19580, List 30 power cord assembly (Fig. 7).

**4.04** For ground level entrance with plug-in features, use KS-19580, List 31 power cord group assembly (Fig. 8).

**GROUNDING**

**4.05** Ensure that the ground terminal of the station protector is connected to the booth with bonding wire provided.

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

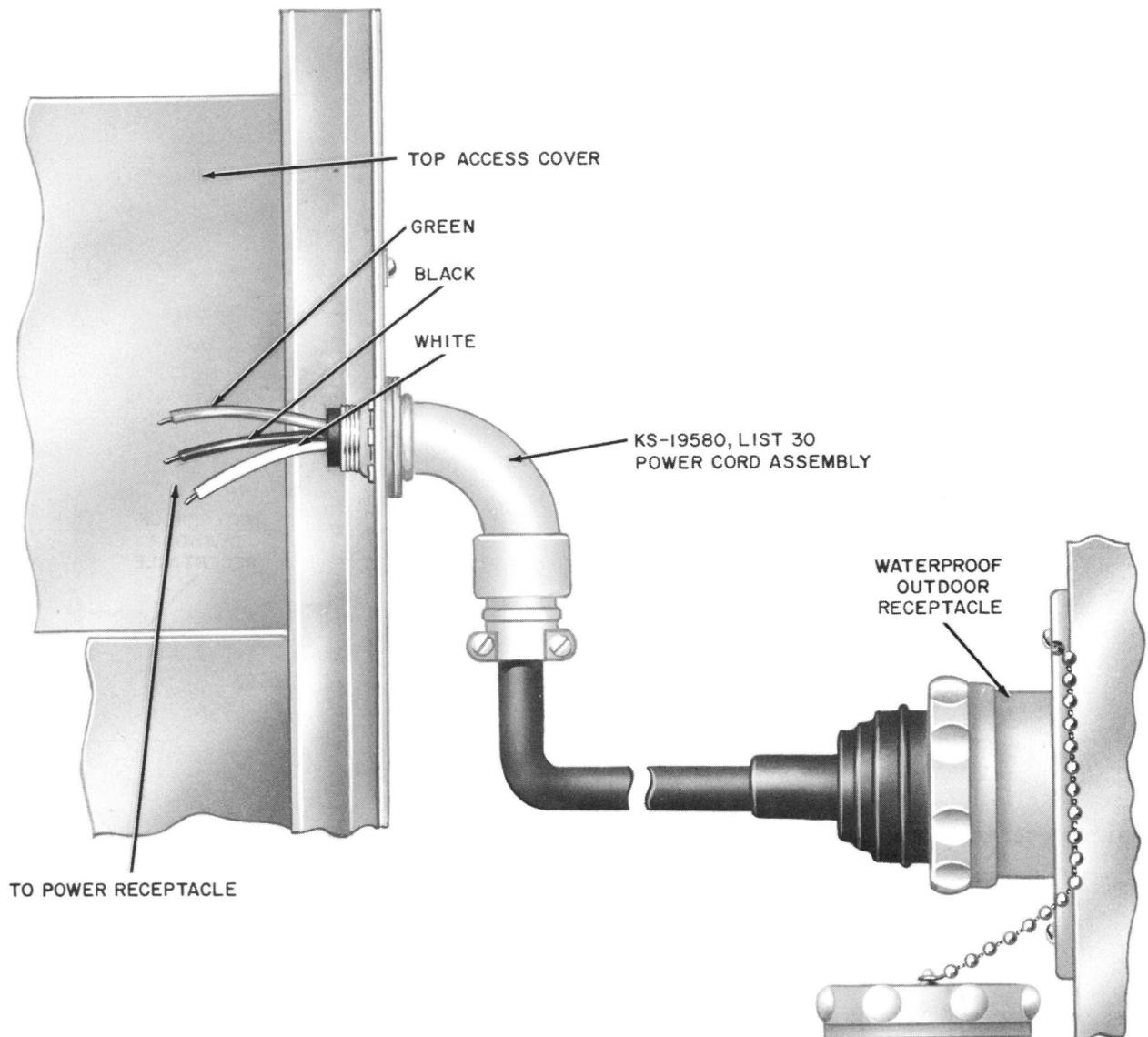


Fig. 7—KS-19580 List 30 Power Cord Assembly for Overhead Entrance

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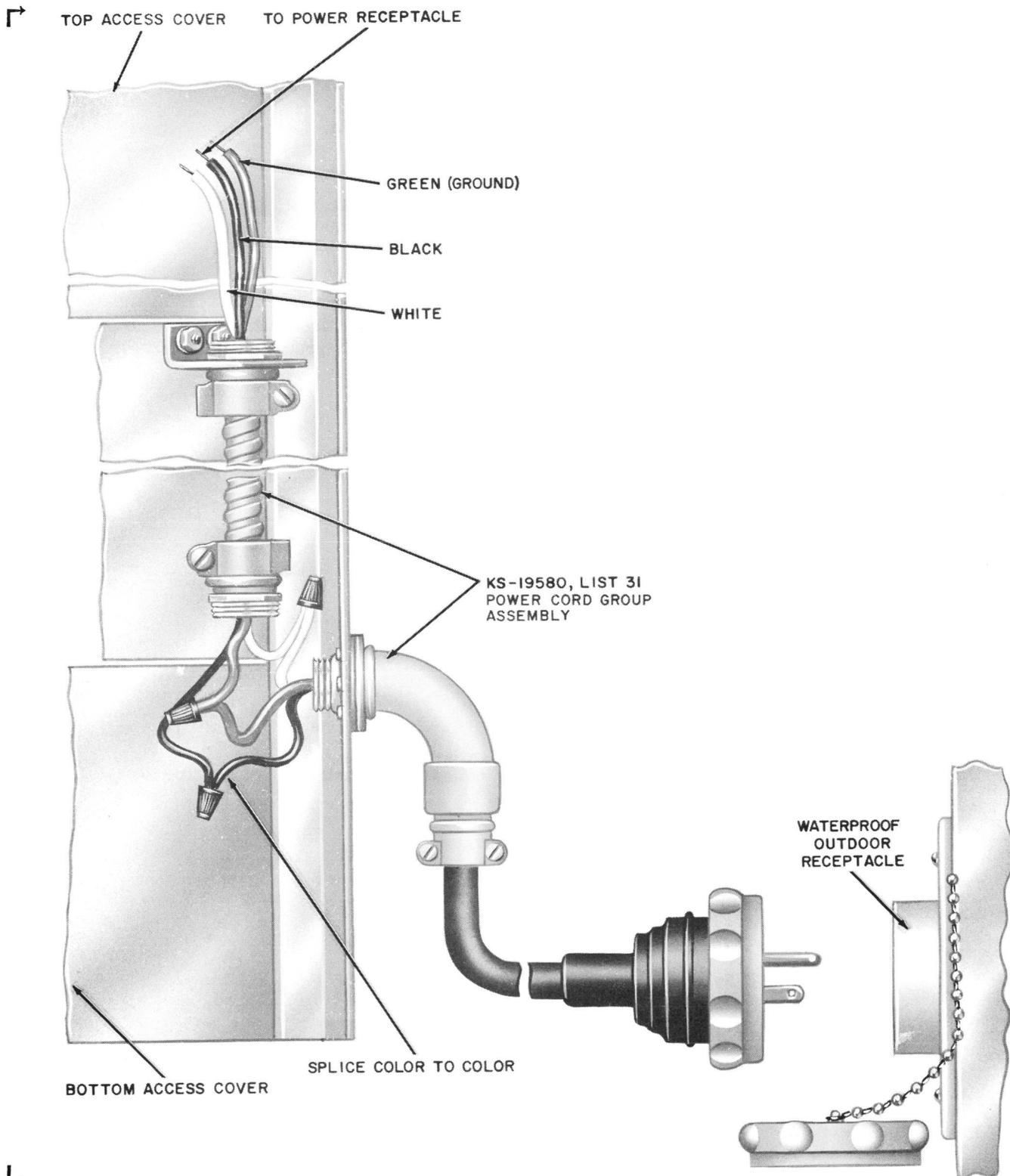


Fig. 8—KS-19580, List 31 Power Cord Group Assembly for Ground Level Entrance

**5. KS-19207, LIST 3 LIGHT AND BLOWER UNIT**

**5.01** All KS-19580 booths will be furnished with a KS-19207, List 3 light and blower unit unless otherwise specified. See Section 508-820-100 for additional information including wiring.

**6. KS-10207, LIST 7 LIGHT FIXTURE**

**6.01** If no ventilation is required a KS-19207, List 7 light fixture may be ordered. See Section 508-820-100 for additional information including wiring.

**7. KS-19261, LIST 1 LIGHT CONTROL UNIT**

**7.01** A KS-19261, List 1 light control unit may be used to switch the KS-19207 light on at darkness and off at daylight. See Section 508-825-100.

**7.02** Remove the plug near top of right-front column and install the light cell in this position.

**7.03** Install the control unit on the KS-19207 light unit in accordance with Section 508-825-100.



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

**8. DIRECTORY RACK AND SHELF ARRANGEMENTS**

**8.01** There are two shelf assemblies, a directory rack, and an apparatus blank available for the booth. Install, when required, as follows: Refer to Section 508-354-100 for illustrations.

(a) The KS-19580, List 21 shelf assembly is used in the right rear corner of the booth. It contains the subscriber set mounting bracket (Fig. 9).

(b) Install the List 21 shelf assembly using four No. 10-32 by 1/2 Phillips FHM screws and four No. 10 CSK washers.

(c) The KS-19580, List 22 shelf assembly is used along the rear wall in conjunction with a KS-19580, List 25 directory rack assembly.

(d) Install the List 22 shelf assembly using four No. 10-32 by 1/2 Phillips FHM screws and four No. 10 CSK washers.

(e) Install the List 25 directory rack assembly between the two shelves using four No. 10-32 by 1/2 Phillips RHM screws, two No. 10-32 by 1/2 Phillips FHM screws, two No. 10 flatwashers and two No. 10 lockwashers.

(f) If a KS-19580, List 26 or List 27 nameplate blank is desired, install it along the top edge of List 25 directory rack assembly using the two pins furnished with nameplate.

(g) Install a KS-19580, List 24 apparatus blank, if required, using two No. 10-32 by 5/8 Phillips RHM screws, four No. 10 fiber washers, and two No. 10 elastic stop nuts furnished with apparatus blank.

**9. SEAT ASSEMBLY**

**9.01** This booth is designed primarily for stand up service; however, a KS-19425, List 11 seat assembly (Fig. 10) can be used if desired.

**9.02** A KS-19425, List 12 mounting plate must be used for mounting the seat.

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

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

(b) 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.

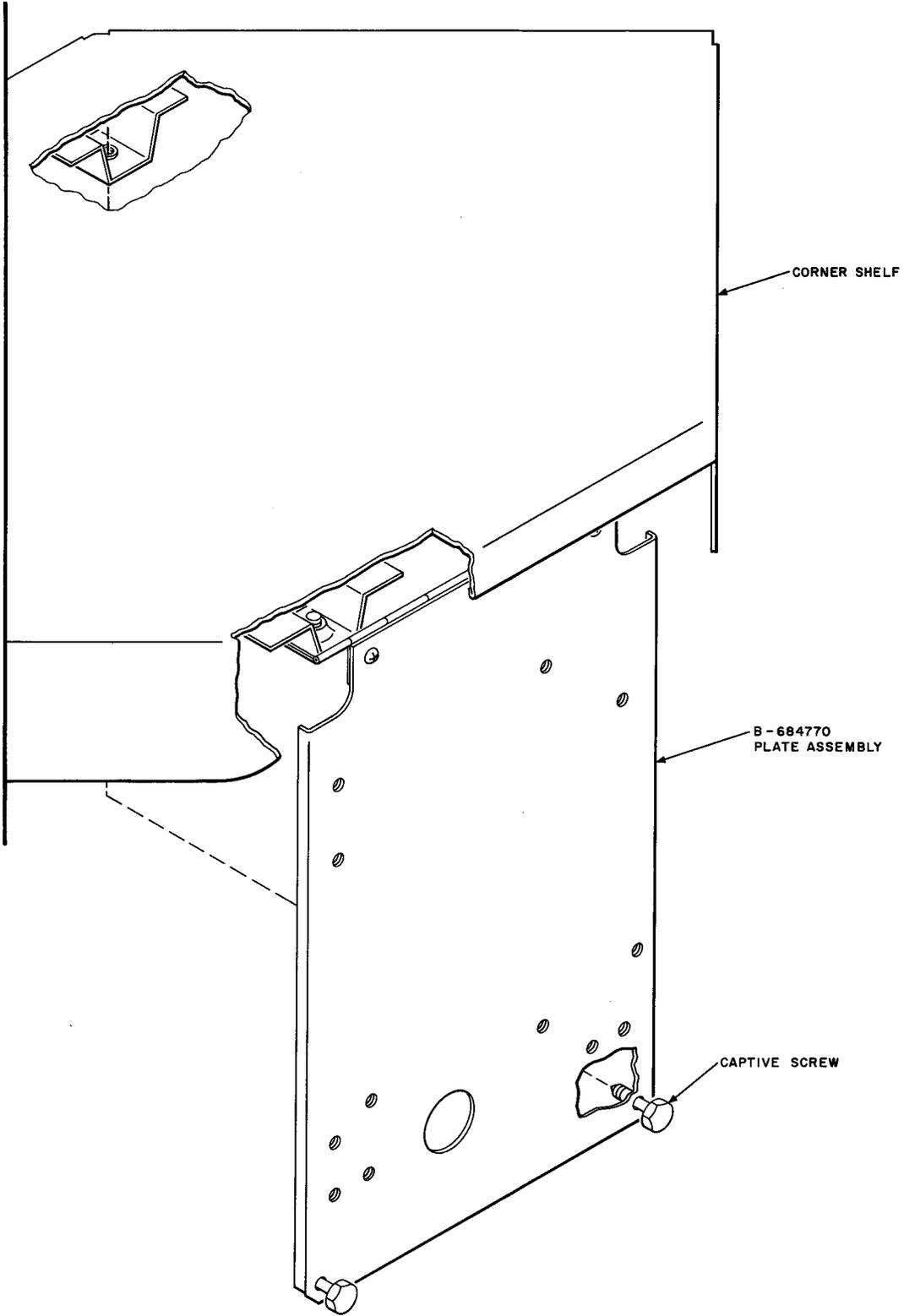


Fig. 9—Subscriber Set Mounting

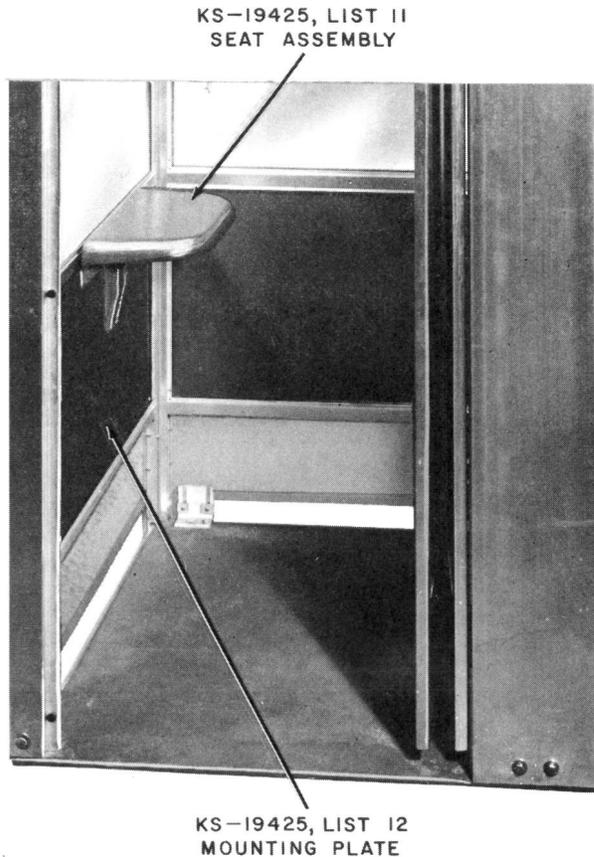


Fig. 10—KS-19425, List 11 Seat Assembly with  
KS-19425, List 12 Mounting Plate



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

**9.04** Install the seat assembly on the upper portion of the mounting plate using the following items (furnished with seat assembly) and install 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

## 10. MULTIPLE INSTALLATIONS

**10.01** This booth is designed so that two or more booths can be installed side-by-side with only one thickness of panels between booths.

**10.02** Perform the following operations for installing multiple booths.

- (a) Install the first booth in the same manner outlined in Part 2.
- (b) Install the second booth adjacent to the first booth.



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

- (c) Join the two booths together using a KS-19580, List 20 multiple kit (Fig. 11). The frames are installed in the same manner as the glass panels.

## KS-19580, LIST 51 RECEPTACLE ASSEMBLY

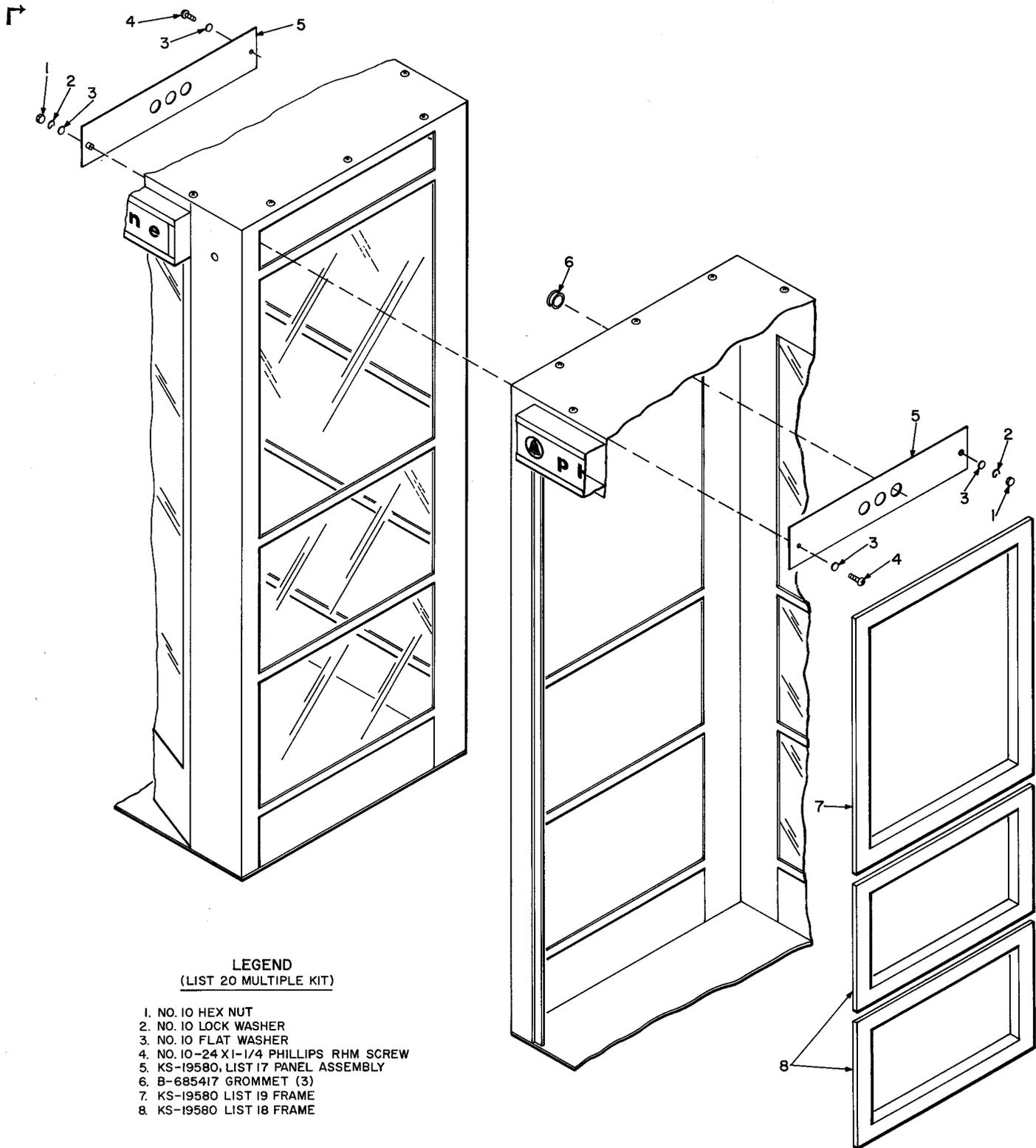
**10.03** In multiple installations, a KS-19580, List 51 receptacle assembly (Fig. 12) must be used in conjunction with a KS-19261 light control unit as follows:

- (a) One receptacle is required for **each multiple installation** where KS-19207, List 7 light fixtures are used.
- (b) One receptacle is required for **each booth** in a multiple installation where KS-19207, List 3 light and blower units are used.

**10.04** Install List 51 receptacle assembly on the bracket provided in the top-rear portion of the booth (Fig. 13).

**10.05** Refer to Fig. 14 and 15 for wiring arrangements of multiple installations.

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**LEGEND**  
(LIST 20 MULTIPLE KIT)

- 1. NO. 10 HEX NUT
- 2. NO. 10 LOCK WASHER
- 3. NO. 10 FLAT WASHER
- 4. NO. 10-24 X1-1/4 PHILLIPS RHM SCREW
- 5. KS-19580, LIST 17 PANEL ASSEMBLY
- 6. B-685417 GROMMET (3)
- 7. KS-19580 LIST 19 FRAME
- 8. KS-19580 LIST 18 FRAME

Fig. 11—KS-19580, List 20 Multiple Kit



Fig. 12—KS-19580, List 51 Receptable Assembly

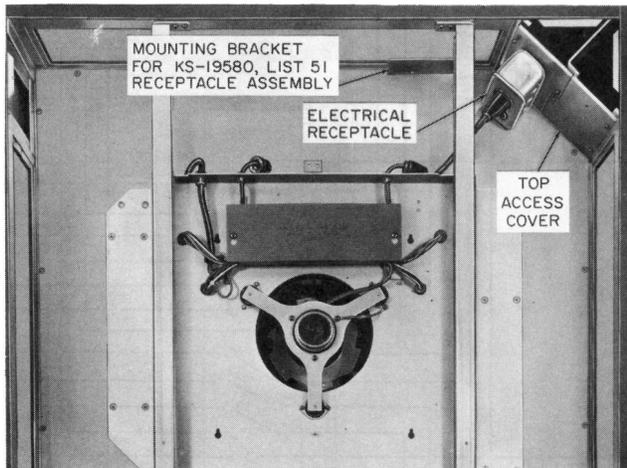
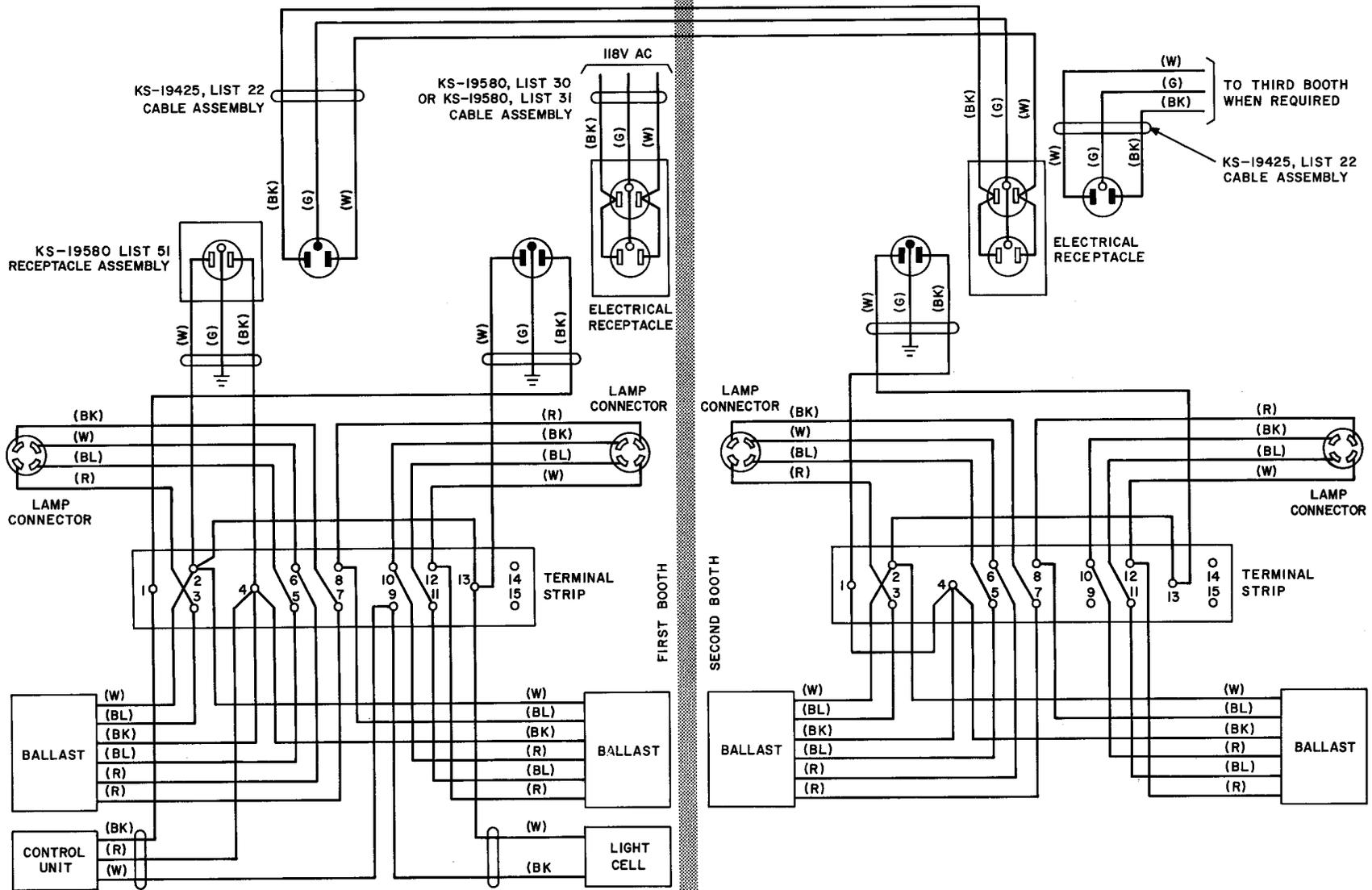
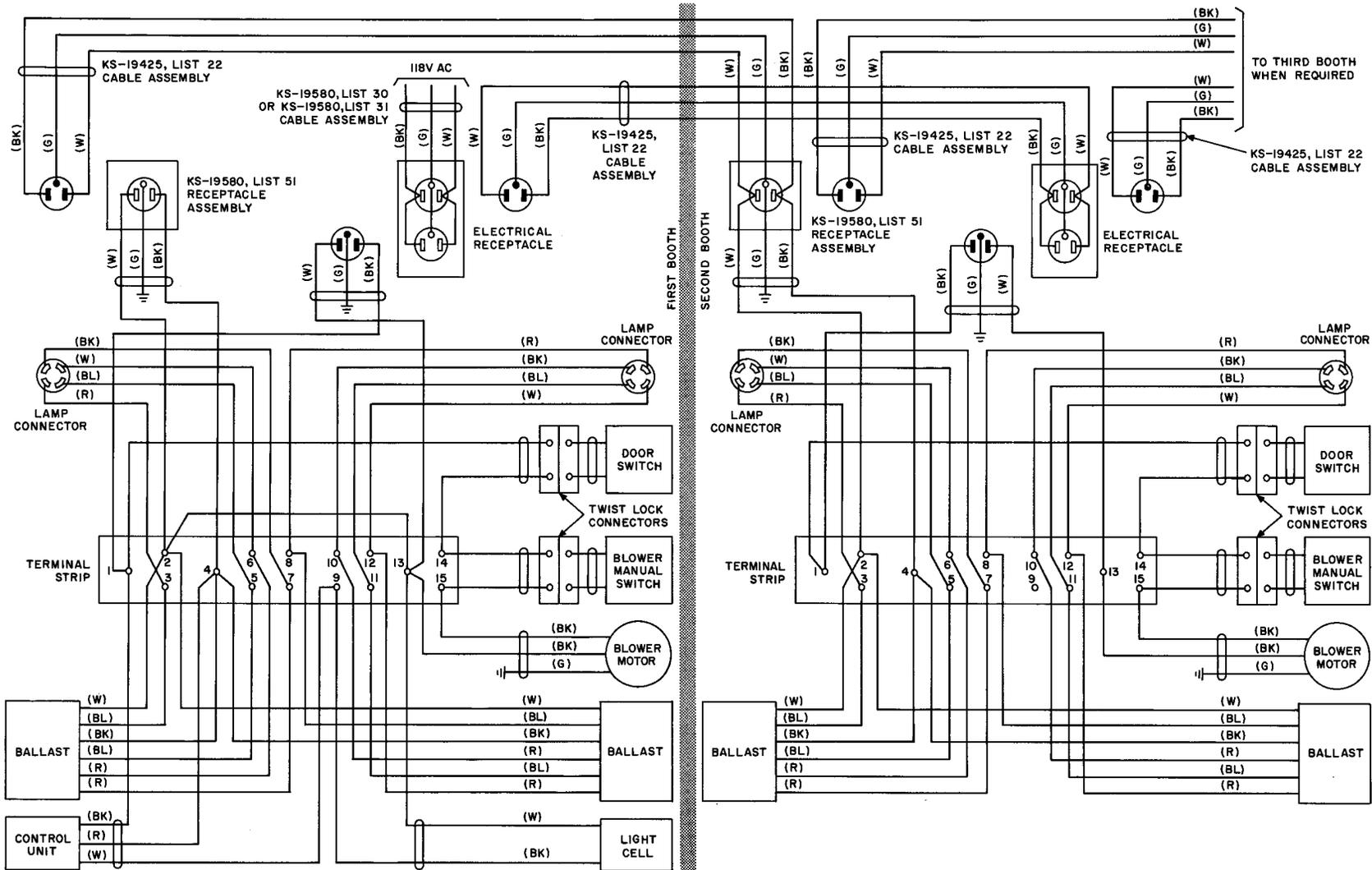


Fig. 13— KS-19580 Booth Ceiling Area



NOTE:  
 FOR MULTIPLE INSTALLATIONS USING KS-19207, LIST 7 UNITS, AND USING A KS-19261 LIGHT CONTROL UNIT (MAXIMUM OF FIVE BOOTHS FOR EACH CONTROL UNIT), REMOVE THE STRAP WIRE FROM TERMINAL STRIP TERMINALS 1 AND 4 IN FIRST BOOTH. INSTALL A KS-19580, LIST 51 RECEPTACLE ASSEMBLY IN THE FIRST BOOTH. CONNECT ELECTRICAL RECEPTACLE OF SECOND BOOTH TO LIST 51 RECEPTACLE OF FIRST BOOTH USING KS-19425, LIST 22 CABLE ASSEMBLY. CONNECT ELECTRICAL RECEPTACLE OF THIRD, FOURTH, AND FIFTH BOOTHS TO ELECTRICAL RECEPTACLE OF PREVIOUS BOOTH USING KS-19425, LIST 22 CABLE ASSEMBLY.

Fig. 14—Wiring Diagram of Multiple Installation Using KS-19207, List 7 Light Fixture



**NOTE:**

FOR MULTIPLE INSTALLATIONS USING KS-19207, LIST 3 LIGHT AND BLOWER UNITS, AND USING A KS-19261 LIGHT CONTROL UNIT (MAXIMUM OF FIVE BOOTHS FOR EACH CONTROL UNIT), REMOVE THE STRAP WIRE FROM TERMINAL STRIP TERMINALS 1 AND 4 IN ALL BOOTHS. REMOVE THE STRAP WIRE FROM TERMINALS 2 AND 13 IN ALL BOOTHS EXCEPT FIRST BOOTH. INSTALL A KS-19580, LIST 51 RECEPTACLE ASSEMBLY IN EACH BOOTH. CONNECT LIST 51 RECEPTACLE OF SECOND, THIRD, FOURTH AND FIFTH BOOTHS TO LIST 51 RECEPTACLE OF PREVIOUS BOOTH USING KS-19425, LIST 22 CABLE ASSEMBLY. CONNECT ELECTRICAL RECEPTACLES IN SAME MANNER.

**Fig. 15—Wiring Diagram of Multiple Installation Using KS-19207, List 3 Light and Blower Unit**