

KS-19425 BOOTH (INDOOR-OUTDOOR) IDENTIFICATION AND INSTALLATION



Fig. 1—KS-19425 List 2 Booth (Indoor-Outdoor)

SECTION 508-232-100

1. GENERAL

1.01 This section is reissued to:

- Revise references
- Revise information on installation of KS-19207 receptacle assembly
- Revise Table C.

2. IDENTIFICATION

PURPOSE

2.01 The KS-19425, List 2 booth (Fig. 1) is an indoor-outdoor aluminum and glass telephone booth designed for single, side-by-side, or back-to-back installations.

2.02 This booth is designed primarily for stand-up service; however, a high-position seat, located approximately 27 inches from the floor, is available for sit-down service if desired.

DESIGN FEATURES

2.03 The overall dimensions of the booth are:

- Height—83-1/8 inches
- Width—28-3/4 inches
- Depth—28-3/4 inches (front sign projects 1-1/2 inches beyond this dimension)

2.04 The self-closing door, consisting of two vertical sections, each supporting a clear safety glass panel, folds inside the booth along the right wall. For indoor use, the door may remain in the normally opened position if so desired. A rubber molding is attached to the bottom edge of the door to reduce hazards. When the door is released from the open position, the spring assembly will stop and position the door at a partially open position.

Illumination and Ventilation

2.05 The booth is illuminated by a KS-19207, List 7 light fixture which illuminates the telephone signs on the front, sides, and rear of the booth. (See Division 508, section entitled: KS-19207 Light and Blower Unit, Identification, Installation and Maintenance.)

2.06 When used outdoors, this booth may be equipped with a KS-19261, List 1 light control. The light cell is mounted near the top of the right front column and automatically turns the lamps off in the daylight and on in the evening. In multiple installations, a maximum of five booths may be interconnected and controlled by one light control mounted in the end booth of the row. (See Division 508, section entitled: KS-19261 Light Controls, Identification, Installation and Maintenance.)

2.07 In multiple installations, a KS-19580, List 51 receptacle assembly (Fig. 2) must be used in conjunction with a KS-19261, List 1 light control unit as follows:

- (a) One receptacle for **each multiple installation** where KS-19207, List 7 light fixtures are used.



Fig. 2—KS-19580, List 51 Receptacle Assembly

- (b) One receptacle for **each booth** where KS-19207, List 3 light and blower units are used.

2.08 When the KS-19580, List 51 receptacle assembly is required, it must be ordered separately plus the following associated items:

- (1) B-650837 bracket
- (4) No. 8—32x 3/8-inch Phillips RH self-tapping screws.

2.09 Ventilation is provided through an opening in the front sign and also through screened louvered panels which may be installed at the sides and rear in place of a sign.

2.10 For locations where additional ventilation is required, a KS-19207, List 3 light and blower unit can be used; this unit must be ordered separately plus the following associated items:

- (1) B-650927 switch assembly
- (1) B-650929 actuator assembly
- (1) B-684799-2 switch assembly
- (1) B-558806-2 switch housing
- (2) No. 8—32 x 1-4-inch Phillips RH self-tapping screw
- (2) No. 8—32 x 1/2-inch Phillips RH self-tapping screws.

Power

2.11 A KS-19425, List 22 cable assembly (Fig. 3) may be used to bring overhead power into an *indoor* booth at either side or rear.

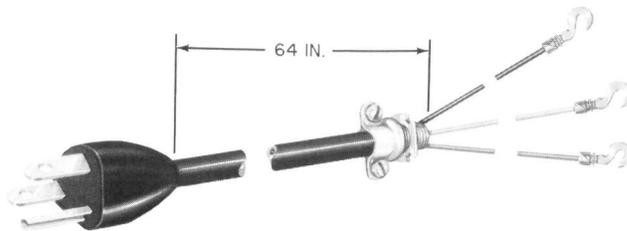


Fig. 3—KS-19425, List 22 Cable Assembly

2.12 A KS-19580, List 30 power cord assembly (Fig. 4) is used to bring overhead power into an *outdoor* booth.

2.13 For underground or ground level power entrance, order a KS-19425, List 25 lower backboard plate and cover assembly (Fig. 5) plus the following items if a circuit breaker is required:

- (1) Circuit breaker (Heineman Electric Co. No. 0912)

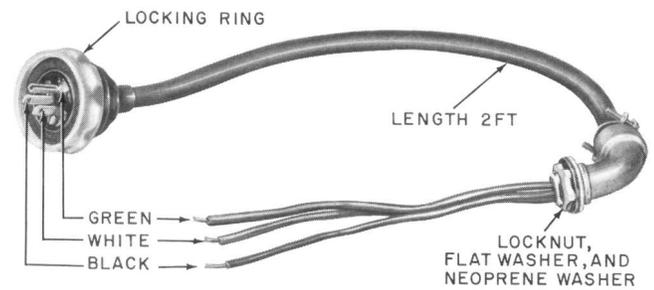


Fig. 4—KS-19580, List 30 Power Cord Assembly

- (1) KS-19426, List 17 circuit breaker box assembly
- (2) No. 8—32 x 3/8-inch Phillips RHM screws.

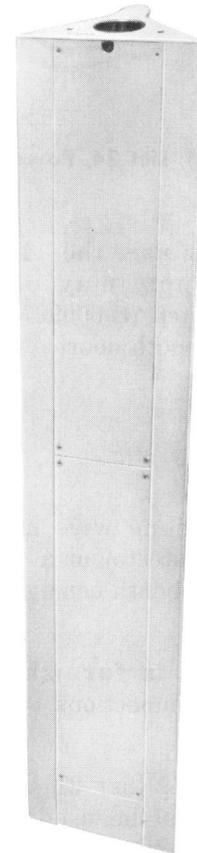


Fig. 5—KS-19425, List 25 Lower Backboard Plate and Cover Assembly

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2.14 A KS-19425, List 24 power cable assembly (Fig. 6) is used to bring ground level or underground power from the KS-19426, List 17 junction box assembly to the power receptacle.

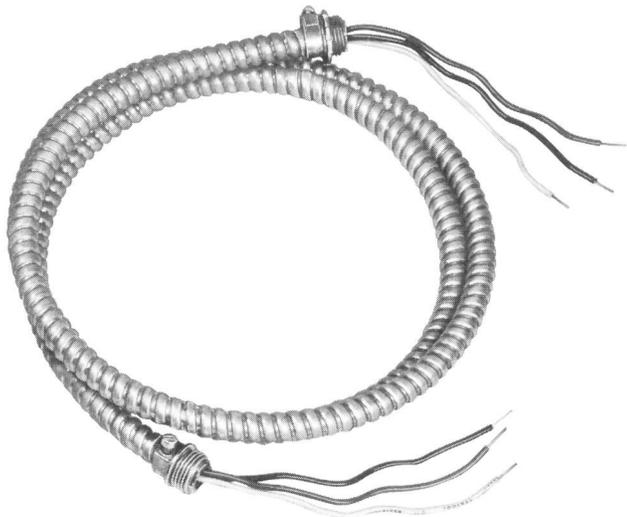


Fig. 6—KS-19425, List 24, Power Cable Assembly

2.15 For indoor use, the 118-volt, 60 cycle ac power supply may be controlled by a door-operated switch (B-650927) which is activated upon closing the booth door.

Wiring

2.16 The telephone wire may terminate on a 123A1A protector or a 42A connecting block located above the booth ceiling.

2.17 The booth is furnished wired for coin telephone connections.

2.18 A KS-19425, List 21 sign blank assembly (Fig. 7) must be used for overhead power and telephone wire entrance.

Signs

2.19 A translucent sign with the Bell System Emblem and the word "phone" is mounted over the door in an aluminum frame which projects 1-1/2 inches beyond the front of the booth (Fig. 1).



Fig. 7—KS-19425, List 21 Sign Blank Assembly

2.20 Translucent signs with the Bell System Emblem and the word "phone," or aluminum solid or louvered panels are mounted along the roof line on side and rear.

Panels

2.21 Panels common to KS-19425 and KS-19580 booths are listed under the KS-19580 number.

2.22 The booth may have clear tempered glass panels, porcelain enamels (Table C) finished metal panels, or aluminum panels installed in the sides and rear.

2.23 The bottom section of this booth may have short aluminum panels which provide open space around the booth so paper and trash will not collect on the floor.

Note: Use KS-19580, List 40 bottom panels between booths in multiple installations to reduce conversation interference.

Leveling Inserts

2.24 Adjustable leveling inserts (Fig. 8) are provided to facilitate booth leveling up to 2 inches. The leveling insert assembly is also used for bolting the booth to its mounting surface.

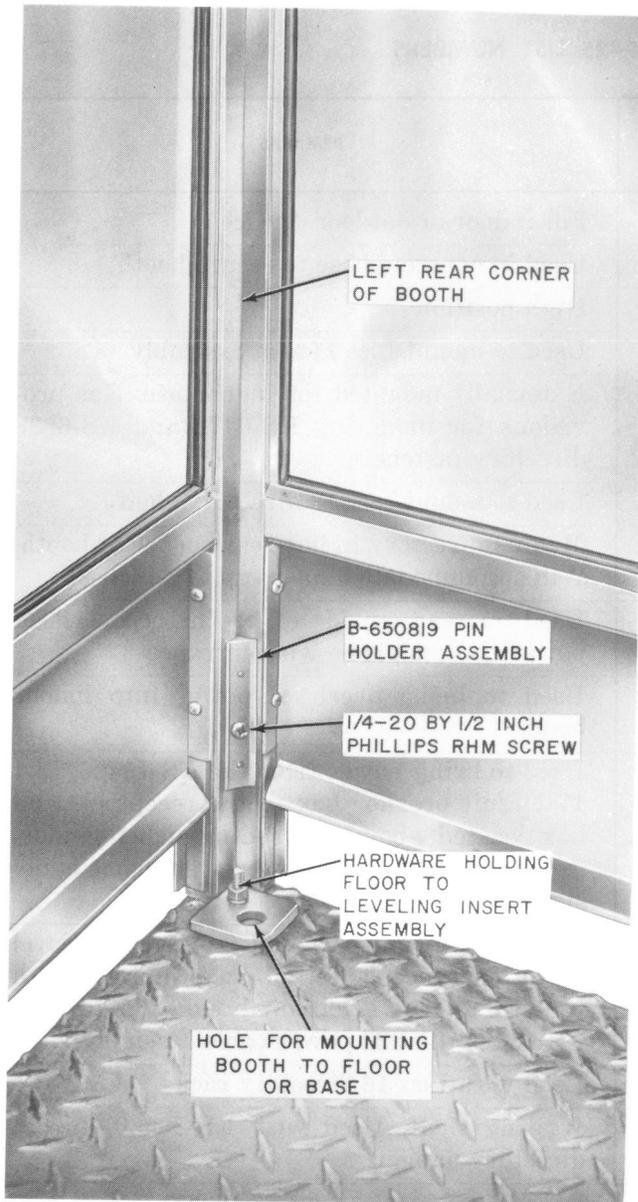


Fig. 8—Leveling Insert Assembly

ORDERING GUIDE

2.25 Table A provides the basic list numbers assigned to KS-19425, List 2 and the previous List 1 booth components.

2.26 Table B describes the telephone sign panels for the List 2 and previous List 1 booth assemblies.

2.27 Table C describes the door, side, bottom, and rear panels for the List 2 and the previous List 1 booth assemblies.

2.28 A KS-19928, List 2 card frame is available for use with the KS-19425 booth. (See Division 508, section entitled: KS-19928 Card Frame, Identification and Installation). Order as follows:

- (1) KS-19928, List 2 card frame
- (4) No. 8—32 x 1/2-inch Phillips RH screws

2.29 A KS-19580, List 20 multiple kit (Fig. 9) is available for side-by-side or back-to-back assemblies.

2.30 The following are examples of typical orders:

Example 1:

1—KS-19425, List 2 Telephone Booth w/List 60 finish.

Note: The above order will include the following items:

1—KS-19580, List 72 Telephone Sign Panel

2—KS-19580, List 80 Telephone Sign Panels

3—KS-19580, List 12 Large Glass Panels

2—KS-19580, List 14 Door Panels

1—KS-19207 List 7 Light Fixture

1—KS-19425 List 27 Shelf Assembly

1—KS-19425 List 21 Sign Blank Assembly

6—KS-19580, List 10 Small Glass Panels

3—KS-19580, List 38 Bottom Panels w/List 60 finish.

Note: Variations may be made in the KS-19425 List 2 booth by ordering from Tables A, B and C. See Example 2.

TABLE A
DESCRIPTION OF KS-19425 LIST NUMBERS

KS-19425 LIST NO.	DESCRIPTION	FIG. NO.	REMARKS
2	Booth	1	For indoor or outdoor service
*10	Foundation Template	10	Used in concrete base to secure booth
*11	Seat Assembly	17	High position
*12	Mounting Plate		Used to mount List 11 seat assembly
*13	Directory Shelf		Externally mounted for indoor use. Has provisions for mounting KS-6472 and KS-6538 directory fasteners
*14	Mounting Plate		Used to mount List 13 directory shelf
†16	Directory Rack	15	Mounts directory in left rear corner of booth. Will accommodate binders up to 3-inches.
21	Sign Blank Assembly	7	Used on rear or side of booth for overhead power and telephone wire entrance
*22	Cable Assembly	3	Used to bring overhead power into indoor booth
*24	Power Cable Assembly	6	Used to bring power from the KS-19426, List 17 circuit breaker box to the receptacle and box located above the ceiling, when underground or ground level power entrance is desired
*25	Lower Backboard Plate and Cover Assembly	5	Used when underground or ground level power entrance is desired in conjunction with KS-19426, List 17 circuit breaker box and a KS-19425, List 24 power cable assembly
†26	Shelf Assembly	15	Used with List 16 directory rack
27	Shelf Assembly	16	Writing shelf. Used with KS-20030, List 3 directory hanger
60	Finish		Bright
61			Gold
62			Bronze
63			Red
64			Blue
65			Green
66			Clear

* Not furnished, must be ordered separately.

† Not furnished, must be ordered separately as an alternative item.

TABLE B
TELEPHONE SIGN PANELS

KS-19580 LIST NO.	COLOR		REMARKS
	LETTERS	BACKGROUND	
*16		Aluminum Solid Panel	Used on sides and rear in place of telephone sign
*35		Aluminum Louvered Panel	Used on sides and rear to increase ventilation of booth
72	White	Blue	Front sign only
*75	Blue	White	
80	White	Blue	Rear and side signs only
*84	Blue	White	
*86	None	Blue	Front sign only
*87		White	
*88		Blue	Rear and side signs only
*89		White	

* Not furnished, must be ordered separately as an alternative item.

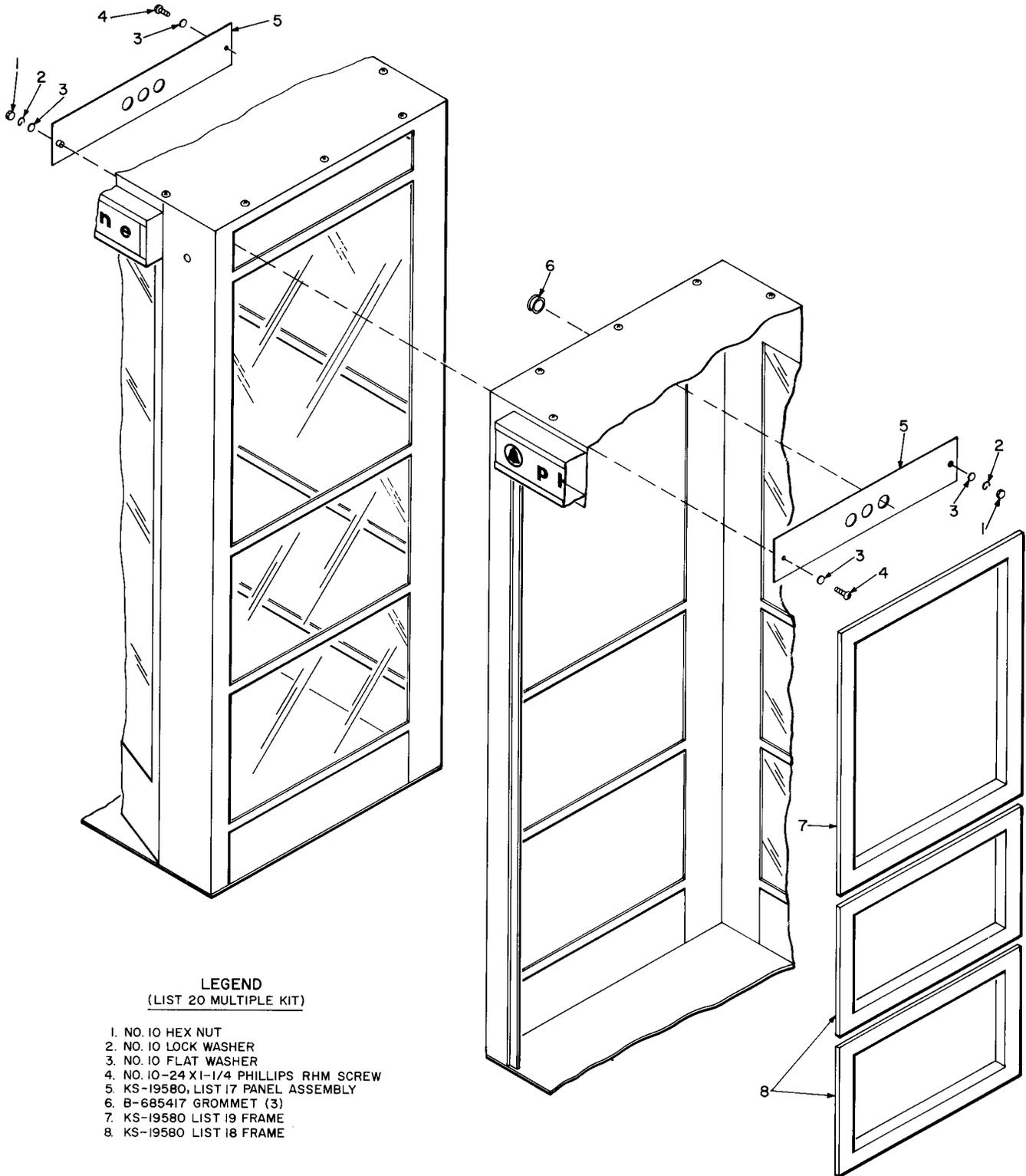
◆ **TABLE C** ◆

DOOR, BOTTOM, AND SIDE OR REAR PANELS

KS-19580 LIST NO.	DESCRIPTION	REMARKS	
10	Tempered Glass Panel	7/32" thick small side or rear panel	
12		7/32" thick large side or rear panel	
14		7/32-inch thick door panel	
*32	Aluminum Panel	Small side or rear panel	
*33		Large side or rear panel	
38		Short bottom panel	
*40		Full size bottom panel	
*90	Porcelain Enamel Panel	Large side or rear panel	Blue
*91			Gray
*92			Red
*93		Small side or rear panel	Blue
*94			Gray
*95			Red

* Not furnished, must be ordered separately as an alternative item.

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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. 9—KS-19580, List 20 Multiple Kit

Example 2:

- 2—KS-19425, List 2 Telephone Booths w/List 60 finish, equipped with:
- 1—KS-19580, List 20 Multiple Kit w/List 60 finish
- 2—KS-20030, List 3 Directory Hangers.

3. INSTALLATION**3.01** Booth location should be:

- Within full view of public
- Readily accessible to customer
- Free of such hazards as broken or uneven pavements and flooring
- Spaced with a minimum clearance of 6 inches from property lines and buildings
- Placed with as little step up as possible (maximum of 3 inches) but still maintaining proper drainage.
- Protected by bumper guards (outdoor only).

3.02 The KS-19425 booth requires anchoring at all outdoor locations. Anchoring at indoor locations is desirable; however, this may not be possible in some instances.

Installing the Foundation Template

3.03 When necessary to provide a concrete base, a KS-19425, List 10 foundation template (Fig. 10) is used. Install the template as follows:

- (1) Prepare a form 40 inches square with an inside depth of 10 inches (Fig. 11).
- (2) Tamp 6 inches of cinders or gravel in the bottom of form.
- (3) Position the template in the form on wooden blocks so that the top of four mounting inserts will be flush with top of concrete base as shown in Fig. 11.



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.

- (4) If underground power and telephone wires are to be used, provide for holes in the concrete base at corresponding hole positions 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.

- (5) For multiple booth installations where separation between booths is *not* required, lengthen the form approximately 29 inches for each additional booth. Fasten adjacent templates together with two No.10-32 by 1/2-inch RHM screws and two No. 10-32 hex nuts.
- (6) For multiple booth installations where separation of booths *is* required, lengthen the form sufficiently and fasten adjacent templates together with steel straps and No. 8 sheet metal screws.
- (7) Pour concrete around the template to fill the form.

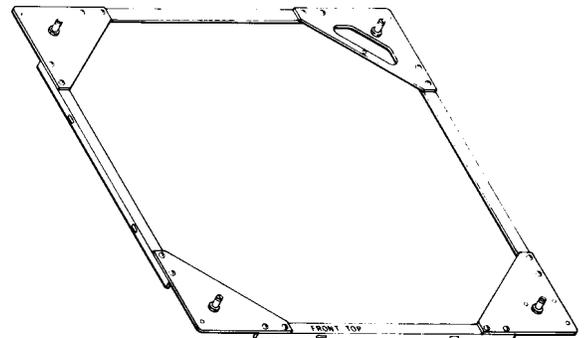


Fig. 10—KS-19425, List 10 Foundation Template

Installing the Booth

3.04 Secure booth as follows:

- (a) If a KS-19425, List 10 foundation template is used, remove insert plugs from template

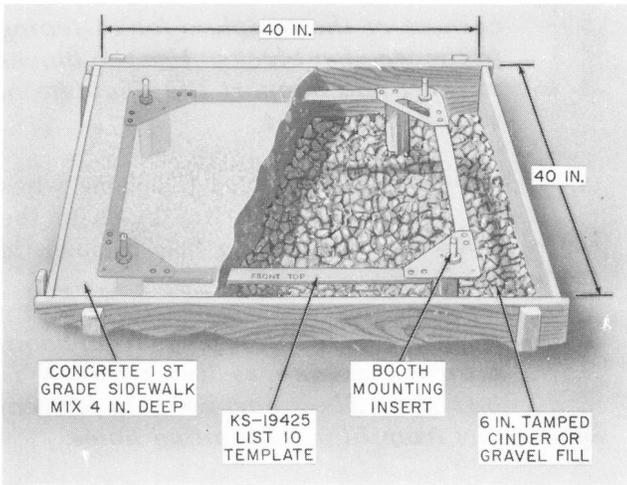


Fig. 11—Concrete Base Preparation with KS-19425, List 10 Template

and secure leveling insert assemblies (Fig. 8) of booth to template using four 3/8-16 by 1-1/4 inch steel zinc plate hex head bolts, four 3/8-inch lockwashers, and four 3/8-inch flatwashers.

(b) If a KS-19425, List 10 foundation template is not used, and the booth is to be mounted on concrete:

- (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 inch steel zinc plate bolts.
- (3) Install the masonry fasteners.
- (4) Secure leveling insert assemblies of booth to masonry fasteners using four 3/8-16 by 1-1/4 inch steel zinc plate 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:

- (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.

(d) Adjust the leveling insert assemblies (Fig. 8) if necessary, and ensure that the booth is level.

Note: Insert assemblies are adjusted by moving the B-650819 pin holder assembly up or down.

Door Requirements

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

- (a) At outdoor locations, the door is adjusted to remain open approximately 1-1/2 inches when the booth is not being used.
- (b) At indoor locations, the hinge spring may be disengaged 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.

Telephone Wiring



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

3.06 At outdoor locations, attach drop wire hook (Fig. 12) or corner bracket (Fig. 13) (whichever is required) to the KS-19425, List 21 sign blank assembly which may be located on the side or rear of the booth.

3.07 Secure drop wire hook (Fig. 12) to clinch nut (provided with sign blank assembly) using one 1/4-20 by 3/4-inch FHM screw.

3.08 If a corner bracket (Fig. 13) is used:

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

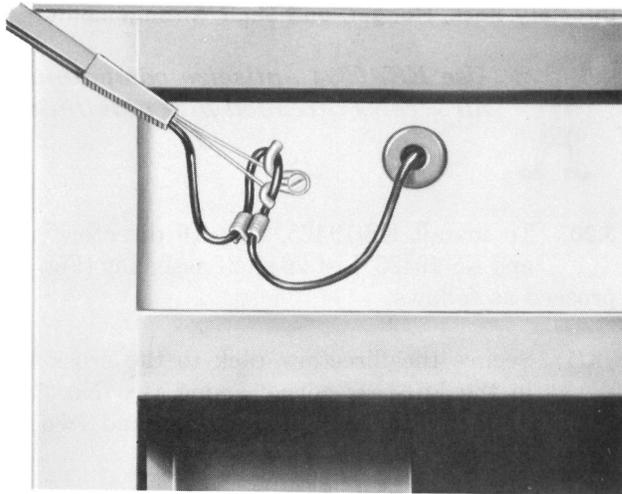


Fig. 12—Drop Wire Hook for First Attachment

- (2) Using the bracket as a template, drill a clearance hole for another 1/4-inch screw.
- (3) Use one 1/4-20 by 3/4 inch Phillips RHM screw, one 1/4-inch flat washer, one 1/4-inch lockwasher, and one 1/4-inch hex nut to further secure the bracket to the sign blank assembly.

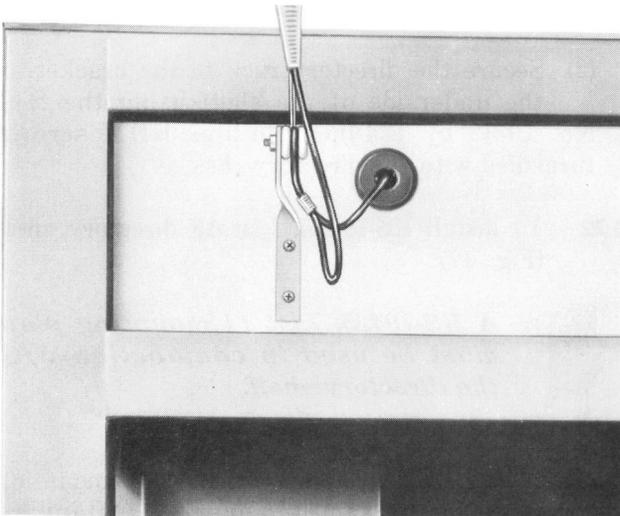


Fig. 13—Corner Bracket for First Attachment

3.09 Telephone wire entrance holes are located in the following locations:

- KS-19425, List 21 Sign Blank Assembly
- Through metallic conduit to holes provided in the right-rear corner of the booth floor.

3.10 Feed drop wire through entrance hole and terminate on 123A1A station protector or 42A connecting block (whichever is required).



The protector or connecting block is located in the top of the ceiling; however, it may be moved to the wire way below shelf in the right-rear corner if ground level or underground entrance is used. The roof is equipped with a gasket and should not be removed unless wiring cannot be done by removing dome assembly and working from inside.

Coin Station Connections

3.11 Station connection wires are furnished as shown in Fig. 14.

Electrical Wiring and Grounding

3.12 Electrical grounding of the booth is covered in Division 508, section entitled: Electric Grounding and Wiring Requirements, Booths—Metal.

3.13 Power wire entrance holes are located in the following locations:

- KS-19425, List 21 Sign Blank Assembly
- Through metallic conduit to holes provided in the right-rear corner of the booth floor.

3.14 A duplex receptacle for electrical wiring is located in the ceiling area. Avoid removing roof.

3.15 Bring overhead power into an indoor booth using a KS-19425, List 22 cable assembly. Bring overhead power into an outdoor booth using a KS-19580, List 30 cable assembly.

3.16 Refer to 2.13 and 2.14 for additional apparatus that must be ordered when ground level or underground power entrance is desired.

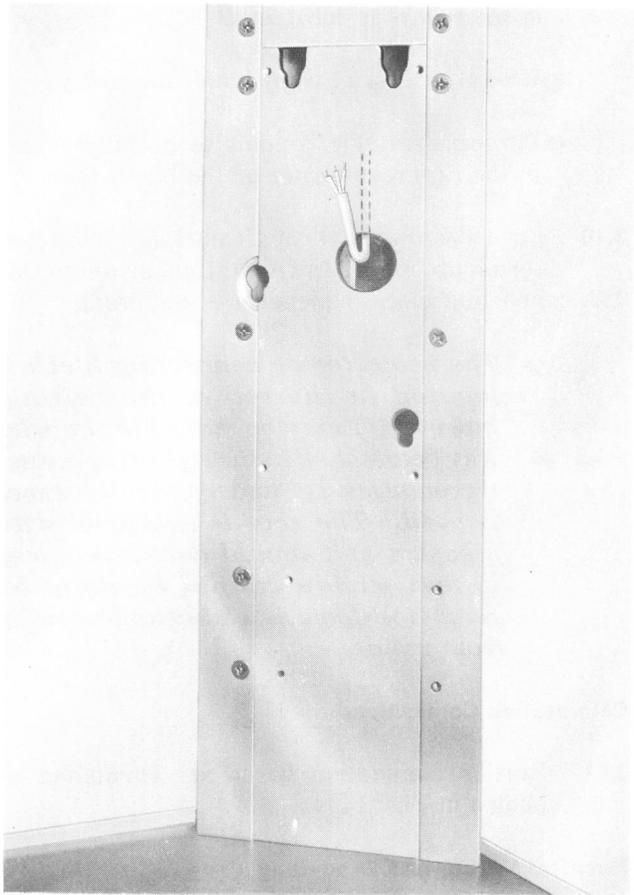


Fig. 14—Station Wiring

3.17 Interconnect power between adjacent booths in multiple installations using approved No. 14 gauge wire. Local electrical codes will determine the number of booths that can be interconnected.

3.18 Ensure that the ground terminal of the station protector is connected to the booth ground lug 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, Hanger, and Shelf Arrangements



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

3.20 To install KS-19425, List 16 directory rack and KS-19425, List 26 shelf assembly (Fig. 15), proceed as follows:

- (1) Secure the directory rack to the cross rails in the left-rear corner using two No. 10-32 by 1/2-inch Phillips RHM screws and two No. 10 CSK lockwashers.
- (2) Secure the shelf assembly to the bottom of the backboard and to the cross rails using six No. 10-32 by 1/2-inch Phillips RHM screws.
- (3) Secure the shelf assembly to the directory rack using the No. 10-24 by 1/4-inch Phillips RHM screw furnished with the directory rack.

3.21 To install KS-19425, List 27 shelf assembly and KS-20030, List 3 directory hanger (Fig. 16):

- (1) Secure the shelf assembly to the bottom of the backboard and to the cross rails using seven No. 10-32 by 1/2-inch Phillips RHM screws.
- (2) Secure the directory rack to the bracket on the underside of the shelf using the four No. 10-32 by 1/4-inch Phillips RHM screws furnished with the directory rack.

3.22 To install KS-19425, List 13 directory shelf (Fig. 17):



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

- (1) Install KS-19425, List 14 (Fig. 17) mounting plate in the same manner as a standard glass panel in the second position on the right side of the booth. Install the plate with shelf mounting holes toward top.

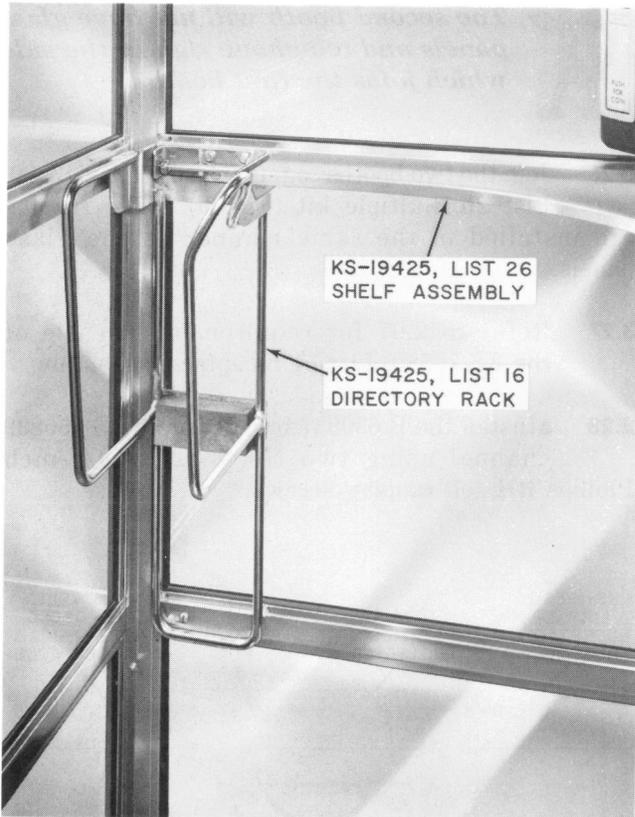


Fig. 15—KS-19425, List 16 Directory Rack and KS-19425, List 26 Shelf Assembly

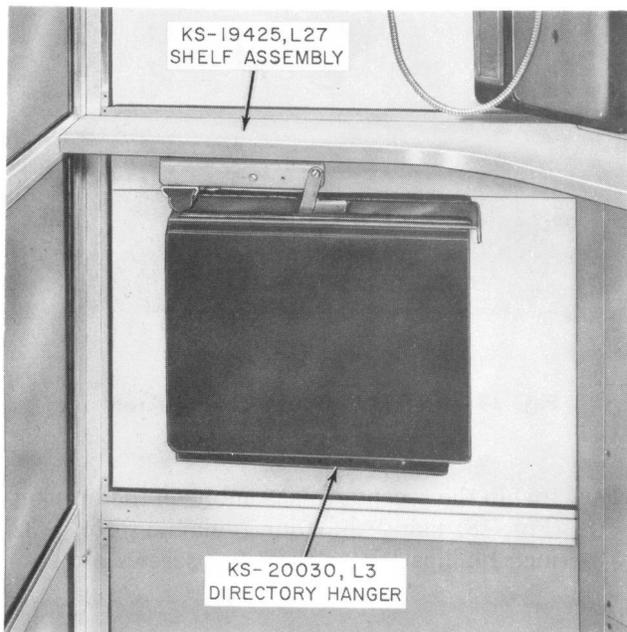


Fig. 16—KS-19425, List 27 Shelf Assembly with KS-20030, List 3 Directory Hanger

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

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

- (3) Install KS-6472 or KS-6538 directory fastener to shelf.

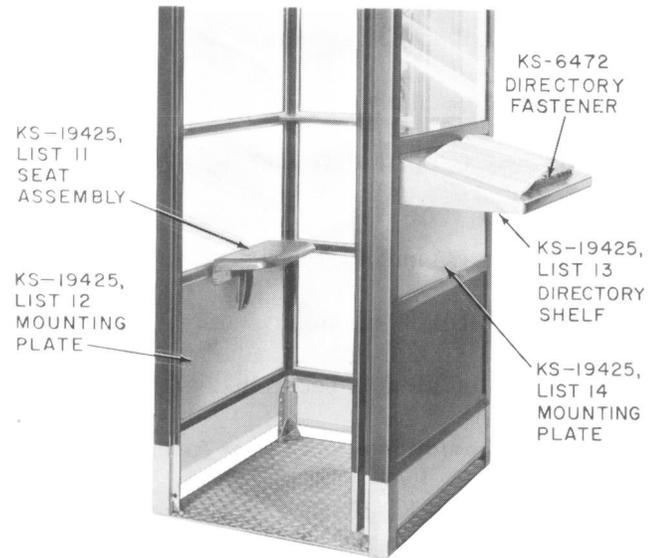


Fig. 17—KS-19425, List 11 Seat Assembly, KS-19425 List 13 Directory Shelf and Associated Mounting Plates

Seat Assembly

- 3.23** To install KS-19425, List 11 seat assembly (Fig. 17):



A KS-19425, List 12 mounting plate must be used to mount the seat.

- (1) Install the KS-19425, List 12 (Fig. 17) 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-inch Phillips RHM screws.



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

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

- Four 1/4-20 by 1-1/8 inch 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

(4) Tighten all nuts securely.

Lower Backboard Plate and Cover Assembly

3.24 To install KS-19425, List 25 lower backboard plate and cover assembly (Fig. 5):

- (1) Remove four plastic plugs located in lower part of right-rear column.
- (2) Insert four J-bolts (furnished with assembly) in the holes with the J-part of the bolt in an upward position.
- (3) Remove upper and lower plate assembly from backboard.
- (4) Place backboard in position on column
- (5) Secure backboard using flat washers, lock washers, and nuts furnished with the assembly.
- (6) Replace the upper and lower plate assembly on backboard.

Multiple Installations

3.25 Install booth as outlined in 3.03 and 3.04.



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

3.26 Join the two booths together using a KS-19580, List 20 multiple kit (Fig. 9). The frames are installed in the same manner as the glass panels.

3.27 Refer to 2.07 for requirements on use of the KS-19580, List 51 receptacle assembly.

3.28 Install the B-650837 bracket on the B-650839 channel using two No. 8-32 by 3/8-inch Phillips RH self-tapping screws.

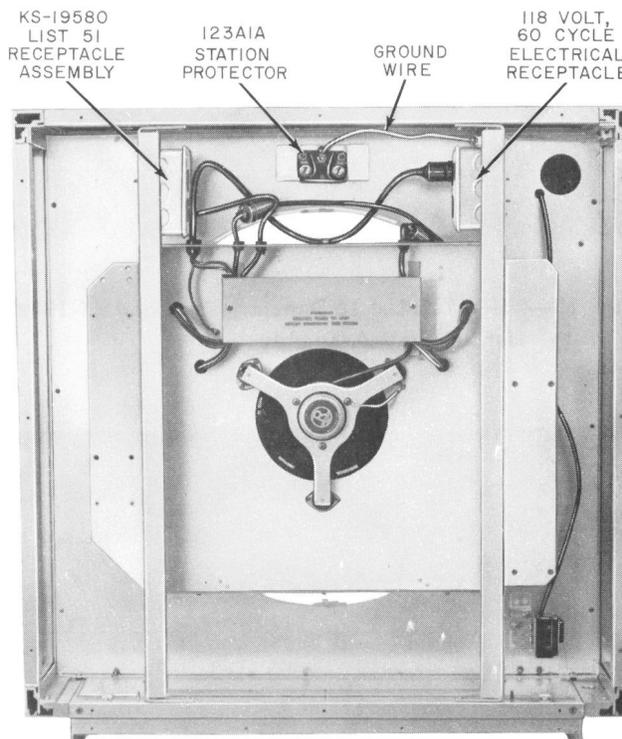
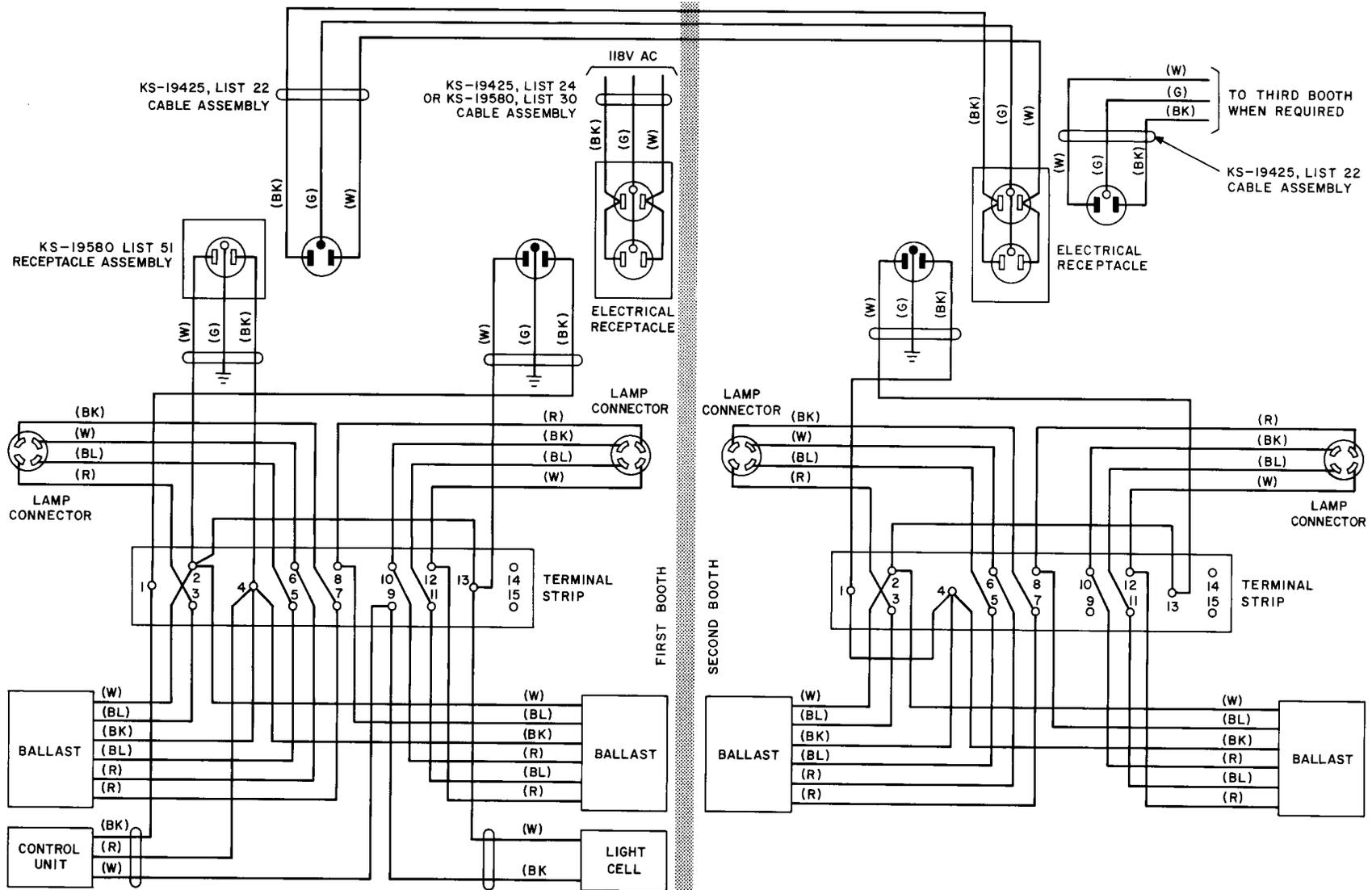


Fig. 18—KS-19425 Booth Ceiling Area

3.29 Install the receptacle assembly on the bracket (Fig. 18) using the four remaining No. 8-32 by 3/8-inch Phillips RH self-tapping screws.◆

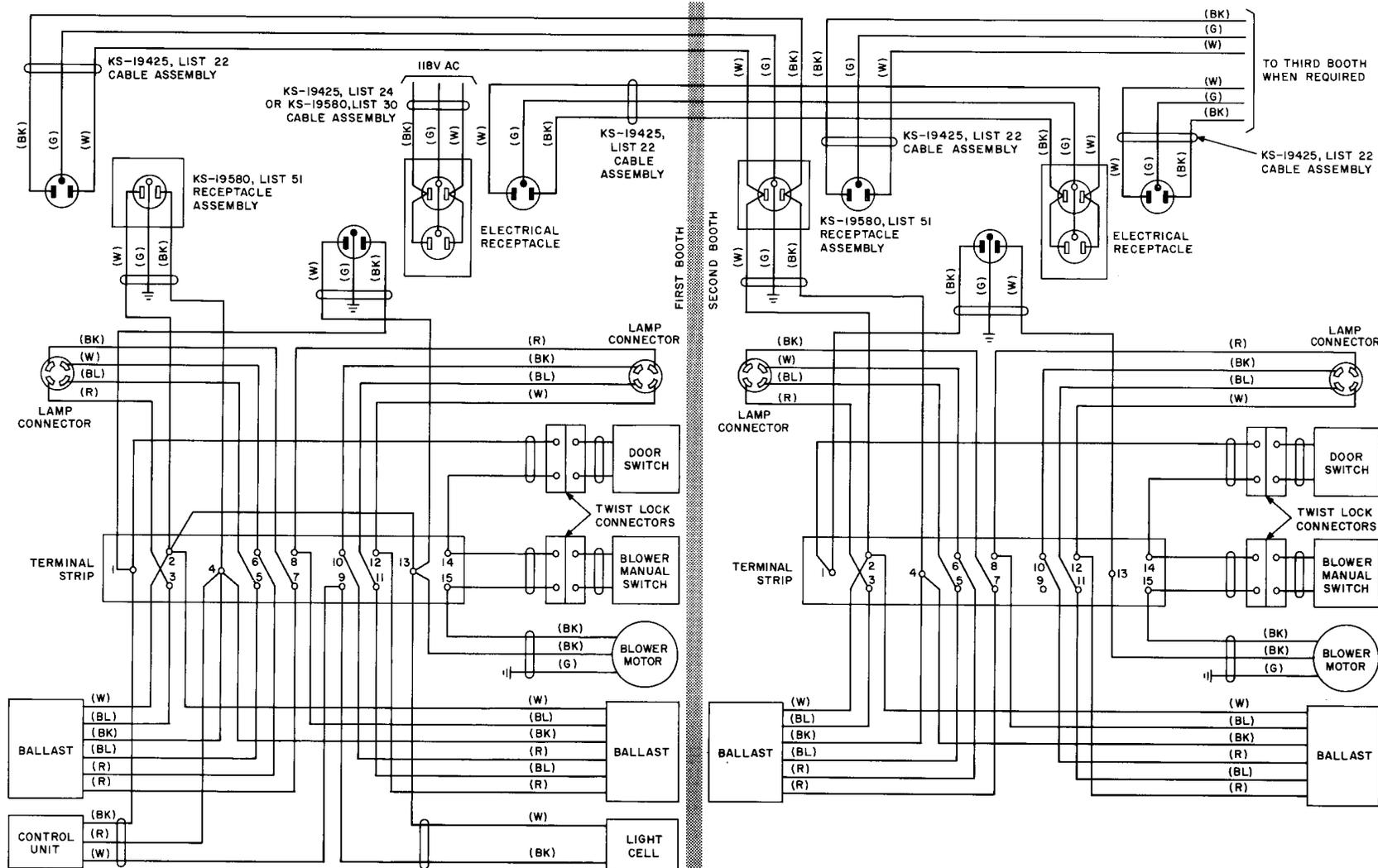
3.30 Refer to Fig. 19 and 20 for wiring arrangements of multiple installations.



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. 19—Wiring Diagram of Multiple Installation Using KS-19207, List 7 Light Unit



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