

KS-19425 UNIVERSAL II INDOOR-OUTDOOR BOOTH IDENTIFICATION, INSTALLATION, AND MAINTENANCE



Fig. 1—KS-19425 Indoor-Outdoor Booth

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

SECTION 508-301-100

1. GENERAL

1.01 The KS-19425 booth is an aluminum and glass enclosure which is a direct replacement for the KS-16797 universal booth.

1.02 This section is reissued to revise and update information in:

- (a) Tables A, B, C, and D
- (b) Fig. 6, 8, 9, 18, 19, 20, 21, and 25
- (c) Change title.

Revision arrows are used to emphasize the more significant changes.

2. IDENTIFICATION

2.01 The KS-19425 booth (Fig. 1) is an indoor-outdoor aluminum and glass telephone booth designed for single, side-by-side, or back-to-back installation. It is available in polished aluminum (List 60).

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.

2.03 The overall dimensions of the booth are as follows:

- 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 door, consisting of two vertical sections, each supporting a clear safety glass panel, folds inside the booth along the right wall. When the

door is released from the open position, the spring assembly will stop and position the door at partially open position. The spring assembly, which provided the self-closing feature, has been eliminated in new production booths. 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.

PANELS

2.05 Door, side, and rear panels are available as described in Table A. Sign panels are available as described in Table B and bottom panels are available as described in Table C.

ILLUMINATION AND VENTILATION

2.06 Unless otherwise specified, the booth is illuminated by a KS-19207, List 7 light fixture which also illuminates the signs. See Section 508-820-100.

2.07 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. 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:

- B-650927 switch assembly
- B-650929 actuator assembly
- B-684779-2 switch assembly
- B-558806-2 switch housing
- Two No. 8-32 by 1/4 Phillips roundhead self-tapping screws
- Two No. 8-32 by 1/2 Phillips roundhead self-tapping screws

TABLE A
DOOR, SIDE, AND REAR PANELS

KS-19580, LIST NO.	DESCRIPTION	REMARKS	
10*	Tempered Glass Panel	1/4-inch thick small side or rear panel	
12*		1/4-inch thick large side or rear panel	
14*		1/4-inch thick door panel	
32	Aluminum Panel†	Small side or rear panel	
33		Large side or rear 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

* Furnished unless otherwise specified.

† Aluminum panels are available in List 60 (bright) finish.

- B-993174 baffle
- B-650853 venturi
- Two B-684734 clips
- Nine No. 8-32 by 3/8 Phillips roundhead self-tapping screws.

Note: The B-684779-2 backboard mounted switch permits the customer to turn the blower on and off as desired. This switch is used in conjunction with the B-650927 door-operated switch.

2.08 When used outdoors, this booth may be equipped with a KS-19261, List 1 light control unit. 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.

2.09 Refer to Section 508-825-100 for complete information on the KS-19261 light control unit.

2.10 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 is required for **each multiple installation** where KS-19207, List 7 light fixtures are used.

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

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

(a) B-650837 bracket

(b) Four No. 8-32 by 3/8 Phillips roundhead self-tapping screws.

TABLE B
TELEPHONE SIGN PANELS

KS-19580, LIST NO.	COLOR		REMARKS
	LETTERS	BACKGROUND	
16	None	Aluminum Solid Panel†	Used on sides and rear in place of telephone sign
35		Aluminum Louvered Panel†	
68	White	Blue	Front sign
72*			
70	Phone		
75		Charge-a-Call	
69	White	Blue	Rear and side signs
80*			
71	Charge-a-Call		
84		Phone	
86	None	Blue	Front sign
87		White	
88		Blue	Rear and side signs
89		White	

* Furnished unless otherwise specified.

† Aluminum panels are available in List 60 (bright) finish.

WIRING

A. KS-19425, List 25 Lower Backboard

2.12 When underground or ground level wire entrance is desired, use KS-19425, List 25 lower backboard plate and cover assembly (Fig. 3). Order separately.

B. Electrical Wiring

2.13 Use one of the following:

(a) **KS-19425, List 22 Cable Assembly (Fig. 4):** This cable is used to bring overhead power into an indoor booth or to connect adjacent booths in multiple installations.

(b) **KS-19425, List 24 Power Cable Assembly (Fig. 5):** This cable is used to bring power from the KS-19426, List 17 circuit breaker box to the electrical receptacle located above the ceiling.

(c) **KS-19580, List 30 Power Cord Assembly (Fig. 6):** This cord is used to bring overhead power into an outdoor booth.



If a circuit breaker is required, the following items must be ordered separately:

- Heineman Electric Co. No 0912 circuit breaker, catalog No. 91-106-1
- KS-19426, List 17 circuit breaker box (Fig. 7)

TABLE C
BOTTOM PANELS (NOTE)

KS NO.	SIZE	POSITION	REMARKS
KS-21716, L2	Short	Right Side	Less tie down angle
KS-21716, L3	Solid		
KS-19425, L30	Short	Rear	Used when KS-19425, L25 lower backboard is provided — includes tie down angle
KS-19425, L32	Solid		Used when KS-19425, L25 lower backboard is provided — includes tie down angle
KS-19425, L34	Short		Used when KS-19425, L25 lower backboard is not provided — includes tie down angle
KS-19425, L36	Solid		Used when KS-19425, L25 lower backboard is not provided — includes tie down angle
KS-19580, L50	Short	Left Side	Less tie down angle
KS-19580, L49	Solid		
KS-19425, L31	Short	Rear	Same as L30 less tie down angle
KS-19425, L33	Solid		Same as L32 less tie down angle
KS-19425, L35	Short		Same as L34 less tie down angle
KS-19425, L37	Solid		Same as L36 less tie down angle
KS-19580, L49	Solid	Left Side	Same as L41 less tie down angle
KS-19580, L50	Short		Same as L39 less tie down angle

Note: Panels are available in List 60 (bright) finish.

- Two No. 8-32 by 3/8 Phillips roundhead machine screws.

C. Telephone Wiring

2.14 The telephone wire will terminate above the ceiling on a 123A1A or 123E1A protector which is furnished with booth as follows:

Note 1: Older models will have the protector mounted on a stationary plate (Fig. 8).

Note 2: Current models will have the protector mounted on a detachable plate (Fig. 9) for convenient access. Refer to Part 4 for conversion.

2.15 The booth is wired for coin telephone set connections.

CARD FRAME

2.16 The booth will accept a KS-19928, List 2 card frame. Refer to Section 508-811-100.

DIRECTORY HANGER, RACK, AND SHELF ARRANGEMENTS

2.17 Refer to Fig. 10 through 12.

2.18 The KS-19425, List 27 shelf assembly is the recommended shelf. The shelf will accept a KS-20030, List 3 directory hanger. Both the shelf assembly and directory hanger must be ordered separately.

SEAT ASSEMBLY

2.19 Refer to Fig. 12.



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

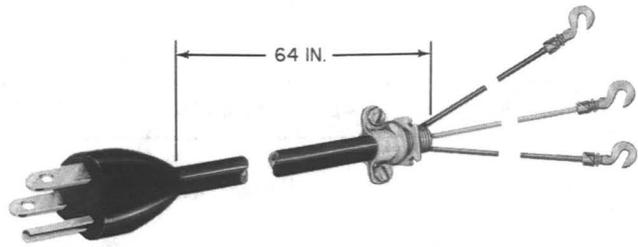


Fig. 4—KS-19425, List 22 Cable Assembly



Fig. 3—KS-19425, List 25 Lower Backboard Plate and Cover Assembly

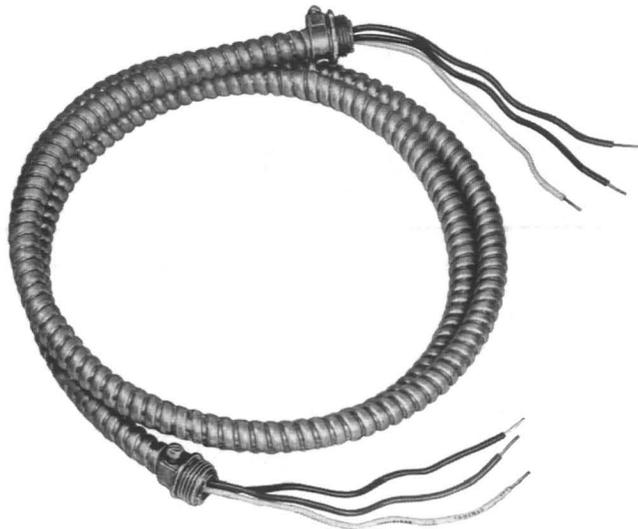


Fig. 5—KS-19425, List 24 Power Cable Assembly

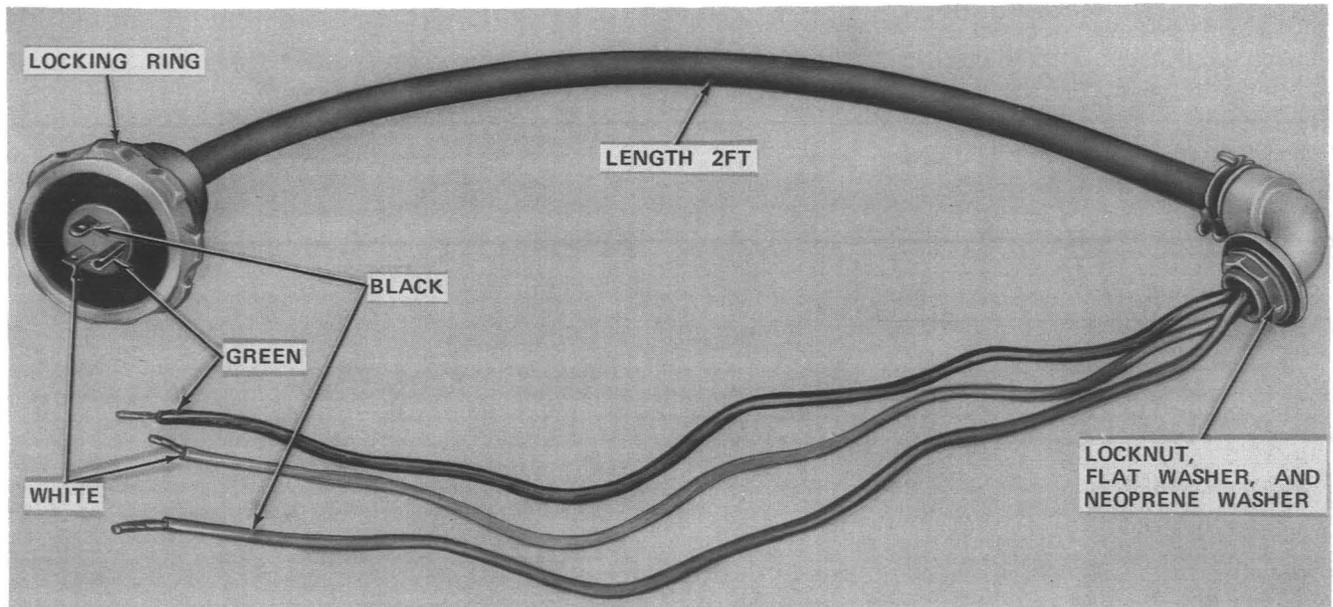


Fig. 6—KS-19580, List 30 Power Cord Assembly

2.20 Order KS-19425, List 11 seat assembly and KS-19425, List 12 mounting plate separately when required.

FLOOR

2.21 An aluminum tread floor (Fig. 13 and 14) is furnished.

LEVELING DEVICES

2.22 Adjustable angles (Fig. 13) are provided to facilitate booth leveling up to 3 inches. They are also used for bolting the booth to its mounting surface. Leveling inserts shown in Fig. 14 have been rated manufacture discontinued (MD).

MULTIPLE KIT

2.23 Refer to Fig. 15.

ORDERING GUIDE

Note: Use full size bottom panels between booths in multiple installations to reduce conversation interference.

2.24 A standard, single KS-19425, List 4 booth comes with a List 60 finish.

(a) The standard booth is equipped with the following signs and panels:

- Six KS-19580, List 10 Small Side and Rear Glass Panels
- Three KS-19580, List 12 Large Side and Rear Glass Panels
- Two KS-19580, List 80 Sign, Side (Phone)
- One KS-19580, List 72 Sign, Front (Phone)
- One KS-19425, List 21 Sign Blank Assembly (Rear)
- One KS-19425, List 34 Bottom Panel, Short, Rear
- One KS-19580, List 50 Bottom Panel, Short, Left Side
- One KS-21716, List 2 Bottom Panel, Short, Right Side.

(b) The standard booth also includes the following:

- Two KS-19580, List 14 Glass Door Panels

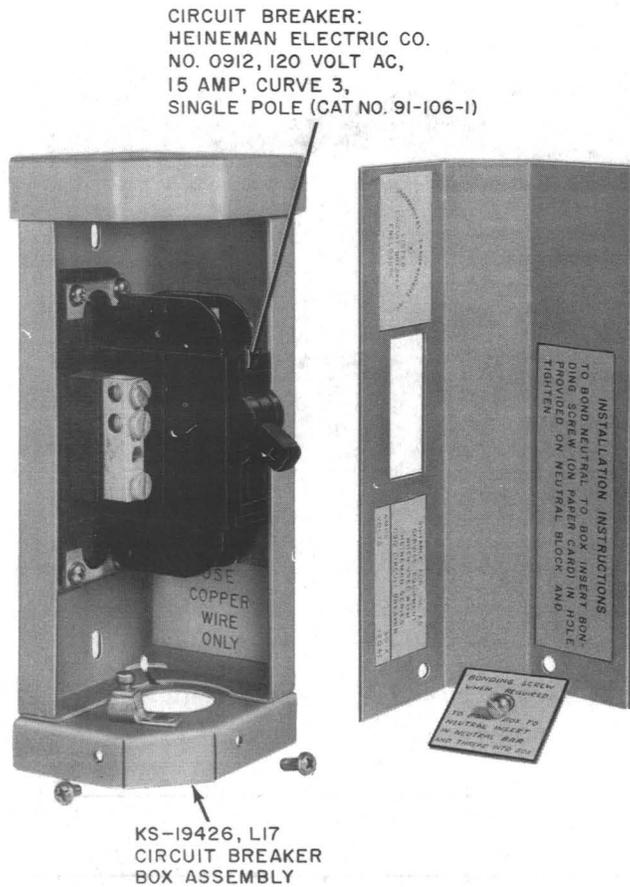


Fig. 7—Circuit Breaker and Box Assembly

- One KS-19207, List 7 Light Fixture
- One B-551952 Dome
- One B-650815-1 Floor
- One B-993172-1 Door Guide Assembly
- One KS-19580, List 30 Power Cord Assembly.

2.25 Examples of typical orders are as follows:

(a) Example 1 (Single Booth): Single List 4 booth is ordered as one KS-19425, List 4 telephone booth with List 60 finish equipped with the following:

- Two KS-19580, List 32 Aluminum Panel, Small (Rear)

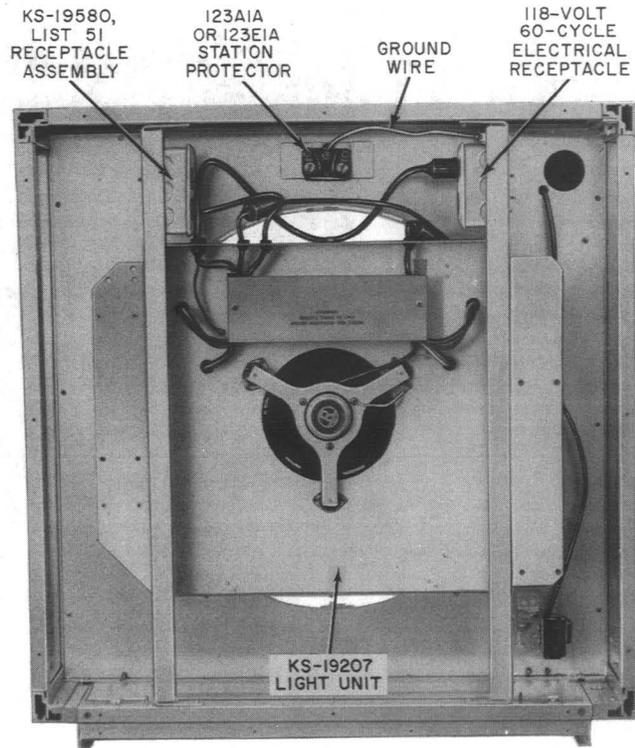


Fig. 8—KS-19425 Booth Ceiling Area (Older Model)

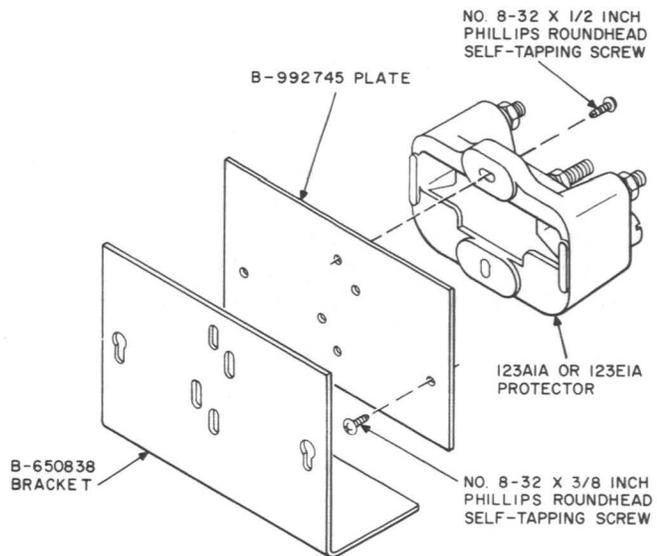


Fig. 9—Conversion of Protector Mounting Bracket

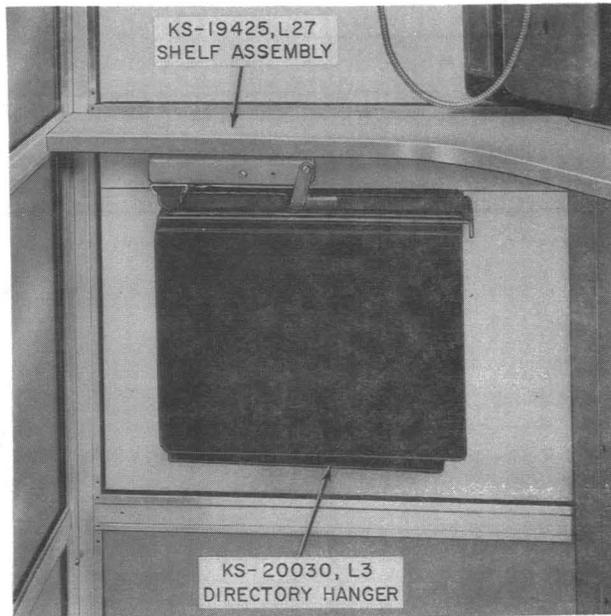


Fig. 10—KS-19425, List 27 Shelf Assembly With KS-20030, List 3 Directory Hanger

- One KS-19580, List 33 Aluminum Panel, Large (Rear)
- One KS-19425, List 27 Shelf Assembly
- One KS-20030, List 3 Directory Hanger
- One KS-19928, List 2 Card Frame.

(b) Example 2 (Side-by-Side Multiple): Two List 4 booths are ordered as two KS-19425, List 4 telephone booths with List 60 finish equipped with the following:

- One KS-19580, List 102 Multiple Kit
- One KS-19580, List 49 Panel, Full, Left Side
- One KS-21716, List 3 Panel, Full, Right Side
- One KS-19261, List 1 Light Control
- One KS-19580, List 51 Receptacle Assembly
- One KS-19425, List 22 Cable Assembly
- Two KS-19425, List 27 Shelf Assembly
- Two KS-20030, List 3 Directory Rack.

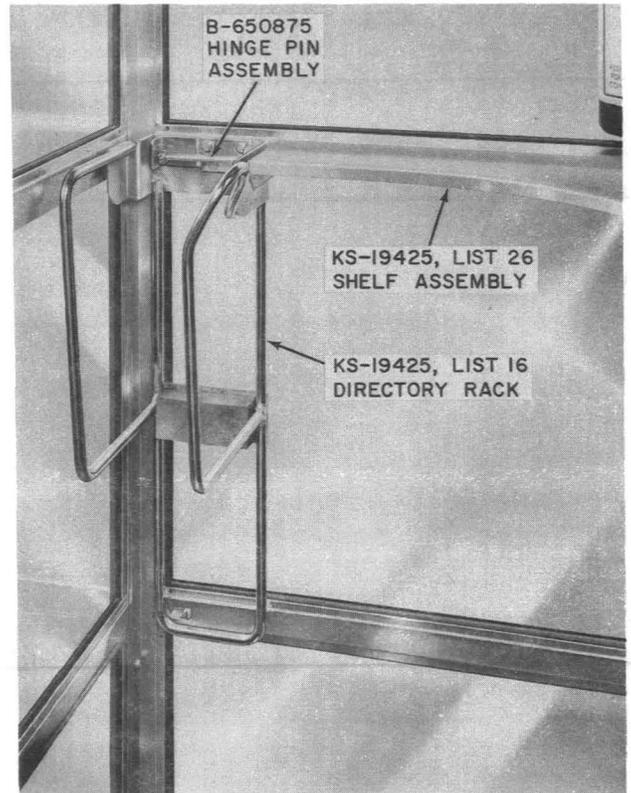


Fig. 11—KS-19425, List 16 Directory Rack and KS-19425, List 26 Shelf Assembly

3. INSTALLATION

3.01 Booth location should be as follows:

- 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 building
- 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

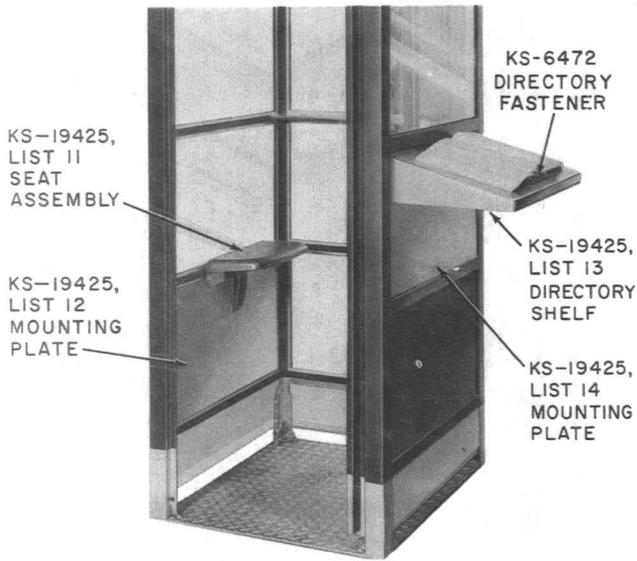


Fig. 12—KS-19425, List 11 Seat Assembly, KS-19425, List 13 Directory Shelf and Associated Mounting Plates

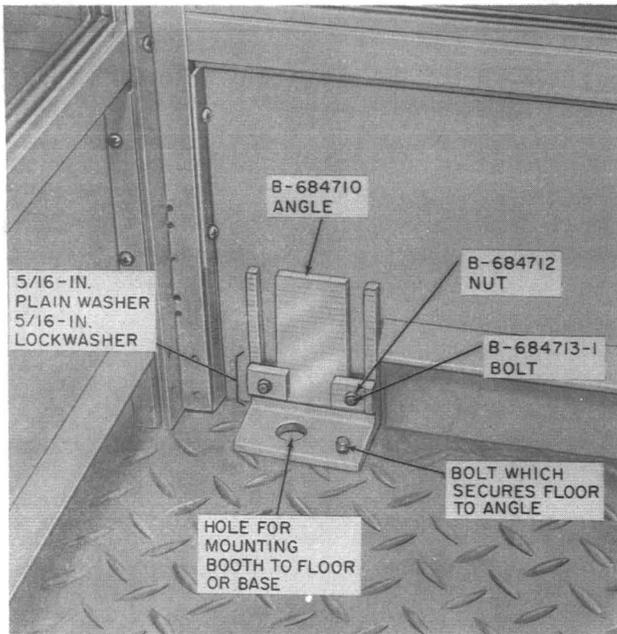


Fig. 13—Mounting and Leveling Angle

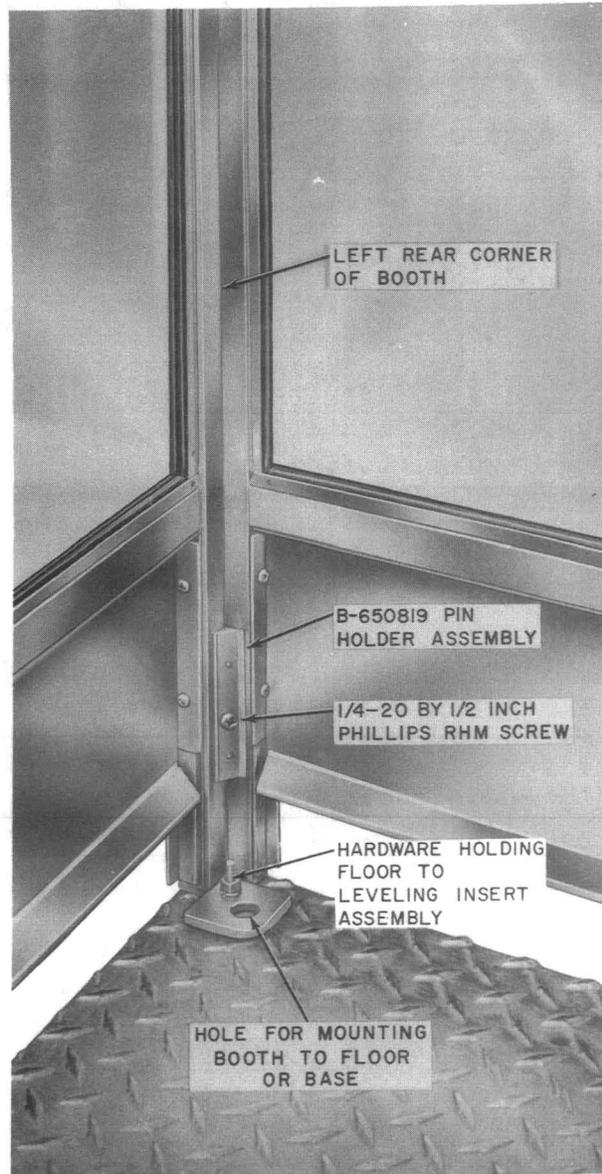
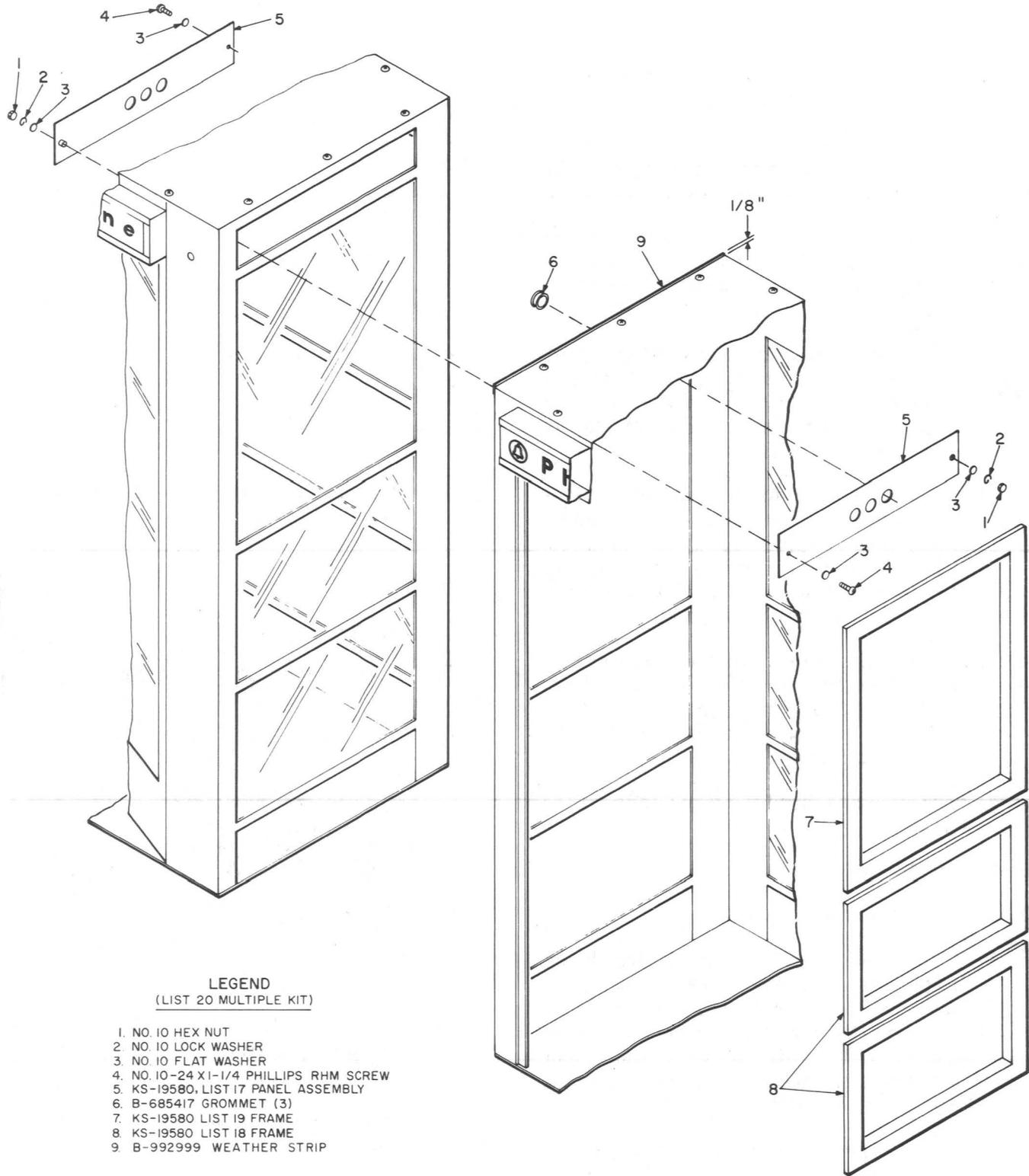


Fig. 14—Leveling Insert Assembly (MD)

locations is desirable; however, this may not be possible in some instances.

INSTALLATION OF FOUNDATION TEMPLATE

3.03 When necessary to provide a concrete base, a KS-19425, List 10 or List 20 foundation template (Fig. 16) is used. Install the template as follows.



LEGEND
(LIST 20 MULTIPLE KIT)

- 1. NO. 10 HEX NUT
- 2. NO. 10 LOCK WASHER
- 3. NO. 10 FLAT WASHER
- 4. NO. 10-24 X 1-1/4 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
- 9. B-992999 WEATHER STRIP

Fig. 15—KS-19580, List 20 Multiple Kit

- (1) Prepare a form 40 inches square with an inside depth of 10 inches (Fig. 17).
- (2) Tamp 6 inches of cinders or gravel in the bottom of form.
- (3) Position the template in the form on wooden blocks so the top of mounting inserts will be flush with top of concrete base as shown in Fig. 17.
- (4) 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.

- (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 roundhead machine 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 (fabricated locally) and No. 8 sheet metal screws.
- (7) Pour concrete around the template to fill the form.

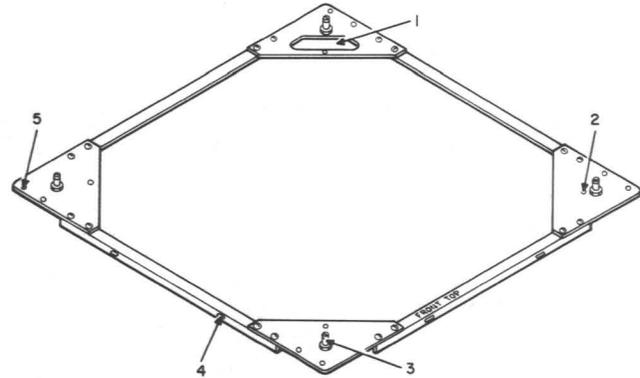
INSTALLATION OF BOOTH

3.04 Secure booth as follows:

- (a) If a KS-19425, List 10 or List 20 foundation template is used, remove insert plugs from template and secure leveling insert assemblies (Fig. 17) of booth to template using four 3/8-16 by 1-1/4 stainless steel hex head bolts, four 3/8-inch stainless steel lockwashers, and four 3/8-inch stainless steel flat washers.

Note: When installing a KS-19425, List 4 booth and a foundation template is being used, the List 20 template is required.

- (b) If a KS-19425, List 10 or List 20 foundation template is not used, and the booth is to be



LEGEND:

1. HOLE FOR UNDERGROUND TELEPHONE AND POWER WIRE ENTRANCE.
2. NAIL HOLES FOR ATTACHING TEMPLATE TO LEVELING BLOCKS.
3. BOOTH LEVELING INSERT.
4. HOLES FOR FASTENING TWO TEMPLATES TOGETHER WHERE SEPERATION IS NOT REQUIRED.
5. HOLES FOR FASTENING STEEL STRAPS WHERE SEPERATION OF TEMPLATES IS REQUIRED.

Fig. 16—KS-19425, List 10 or List 20 Foundation Template

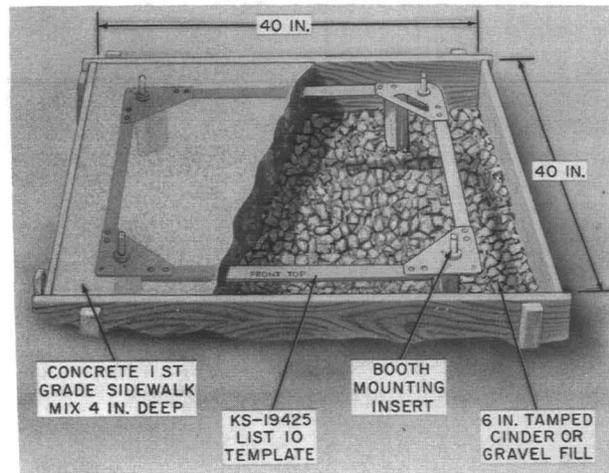


Fig. 17—Concrete Base Preparation With KS-19425, List 10 or List 20 Template

mounted on concrete, perform the following operations:

- (1) Mark the locations for four mounting holes.
- (2) Drill four 5/8-inch diameter holes to accept 3/8-inch machine bolt anchors for bolts.

- (3) Install the anchors.
 - (4) Secure leveling angle assemblies of booth to bolt anchors using four 3/8-16 (length required) stainless steel hex head bolts, four 3/8-inch stainless steel lockwashers, and four 3/8-inch stainless steel flat washers.
- (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 flat washers.
- (d) Adjust the leveling insert assemblies or angles (Fig. 13 or 14) if necessary, and ensure that the booth is level.

Note: Insert assemblies (Fig. 14) are adjusted by moving the B-650819 pin holder assembly up or down.

DOOR REQUIREMENTS

- 3.05** After anchoring and leveling booth, check door operation per Part 4.

TELEPHONE WIRING



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

A. First Attachment

- 3.06** At outdoor locations, attach drop wire hook (Fig. 18) or corner bracket (Fig. 19) (whichever is required) on right-rear column adjacent to the entrance hole as follows:

(a) **Drop Wire Hook:** Secure drop wire hook (Fig. 18) to clinch nut (provided with booth) using one 1/4-20 by 3/4 roundhead machine screw, one 1/4-inch flat washer, and one 1/4-inch lockwasher.

(b) **Corner Bracket:** Corner bracket is attached as follows.

- (1) Secure the corner bracket (Fig. 19) to the threaded clinch nut using one 1/4-20 by 3/4 Phillips roundhead machine screw.
- (2) Using the bracket as a template, drill a clearance hole for another 1/4-inch screw.
- (3) Further secure the bracket to the booth using one 1/4-20 by 3/4 Phillips roundhead machine screw, one 1/4-inch flat washer, one 1/4-inch lockwasher, and one 1/4-inch hex nut.

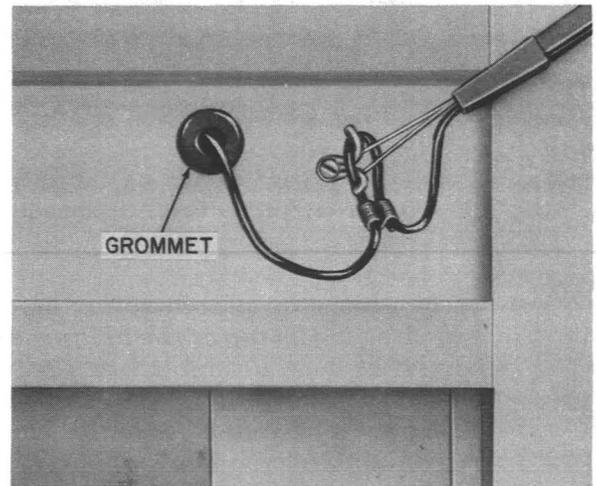


Fig. 18—Drop Wire Hook for First Attachment

B. Drop Wire

- 3.07** Telephone wire entrance holes are located in the following locations:

- (a) KS-19425, List 21 Sign Blank Assembly (Fig. 18 and 19)
- (b) Through a metallic conduit to holes provided in the right-rear corner of the booth floor.

- 3.08** Feed drop wire through entrance hole and terminate on 123A1A or 123E1A station protector (furnished) or 42A connecting block (whichever is required).

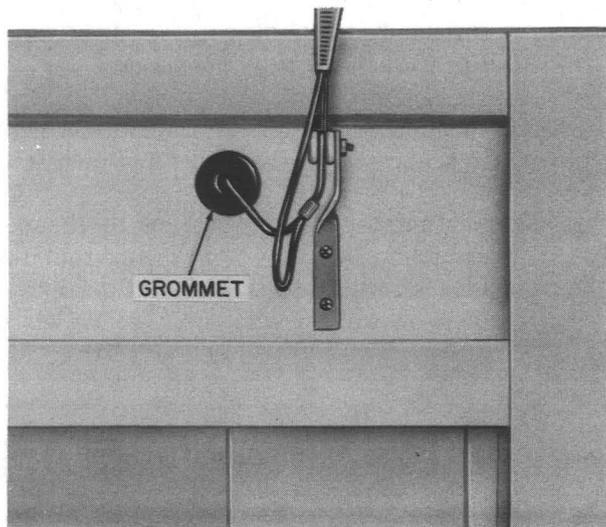


Fig. 19—Corner Bracket for First Attachment



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.

C. Coin Station Connections

3.09 Station connection wires are furnished.

ELECTRICAL WIRING AND GROUNDING

A. Wiring

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

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

3.11 Refer to paragraphs 2.13(a) and 2.13(c) for overhead entrance power cables. Refer to paragraphs 2.12 and 2.13(b) for additional apparatus that can be used when ground level or underground power is desired.

3.12 Refer to paragraphs 3.24 and 3.25 for the lower backboard and circuit breaker box.

3.13 Have local electrician connect wiring if circuit breaker is used or if 14 gauge wire is used instead of power cables.

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

3.15 Interconnect power between adjacent booths in multiple installations with KS-19425, List 22 cable assembly or approved No. 14 gauge wire.

3.16 Refer to Fig. 20 and 21 for wiring arrangements of multiple installations.

B. Grounding

3.17 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. 12 gauge wire.

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

3.19 Refer to Section 508-100-100 for complete information on grounding.

DIRECTORY HANGER, 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 Fig. 10 through 12):

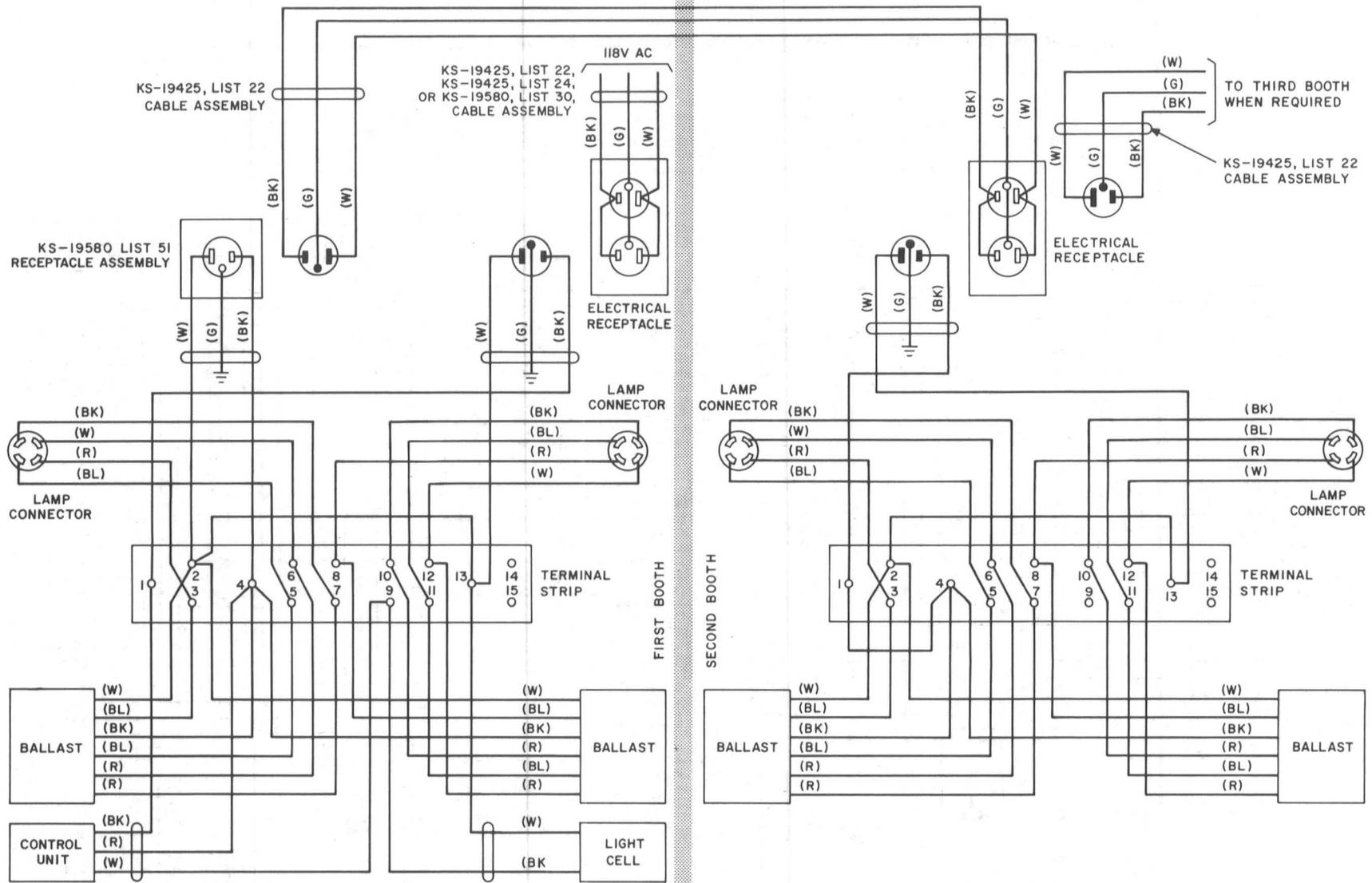


Use KS-19094 antiseize compound on all screws threaded into aluminum.

- (a) Install the KS-19425, List 27 shelf assembly and KS-20030, List 3 directory hanger (Fig. 10) as follows:

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

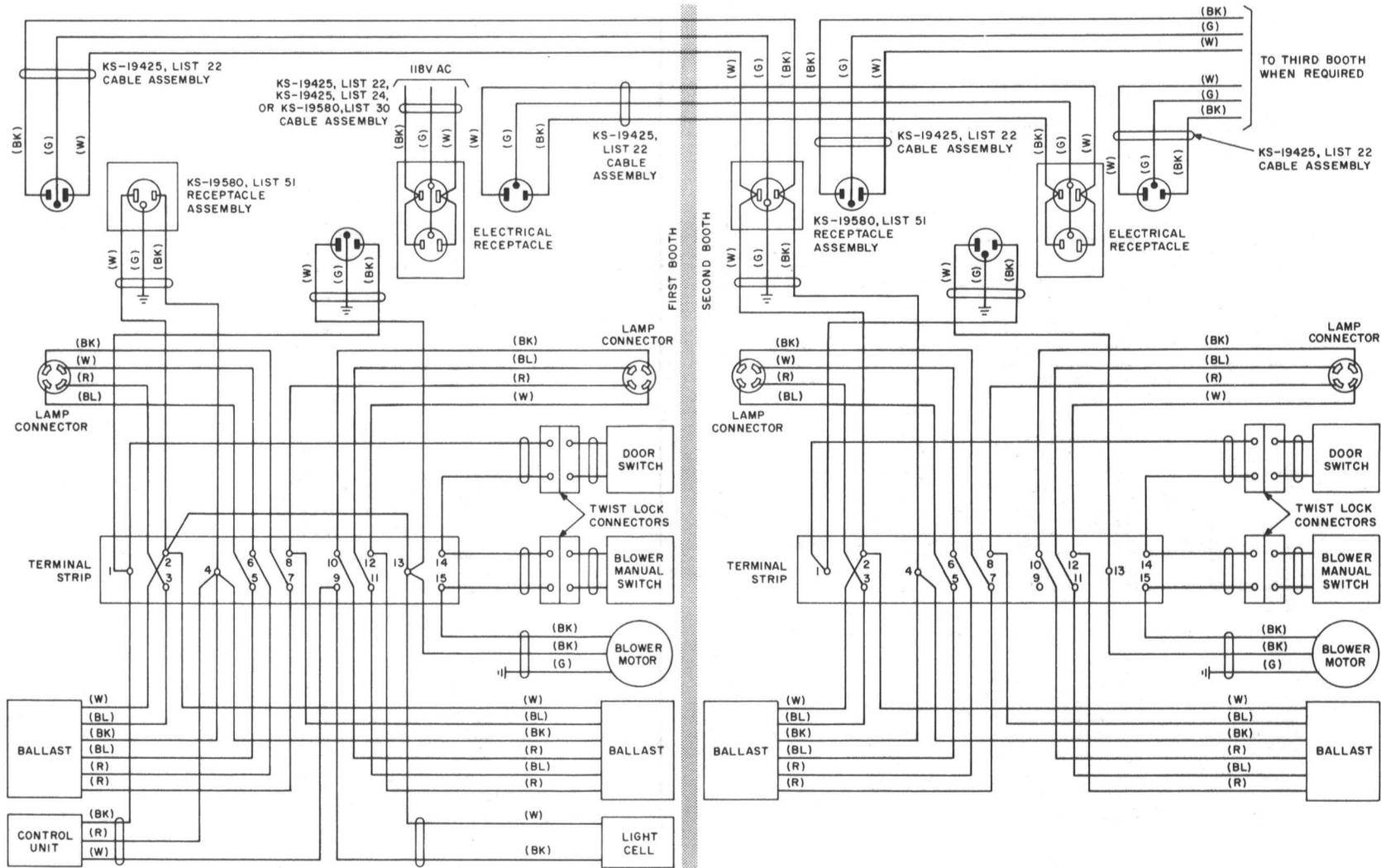
- (1) Secure the shelf assembly to the backboard using two No. 10-32 by 1/2 roundhead machine screws.
- (2) Secure the shelf assembly to the cross rails using five No. 10-32 by 1/2 roundhead machine screws.



NOTE:

FOR MULTIPLE INSTALLATIONS USING KS-19207, LIST 7 UNITS, AND USING A KS-1926I 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. 20—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. 21—Wiring Diagram of Multiple Installation Using KS-19207, List 3 Light and Blower Unit

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

(b) Install the KS-19425, List 16 directory rack and KS-19425, List 26 shelf assembly (Fig. 11) as follows:

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 flathead machine screws and two No. 10 countersink 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 roundhead machine screws.

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

(c) Install the KS-19425, List 13 directory shelf (Fig. 12) as follows:

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. 12) must be used for mounting the seat. Install 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 roundhead machine screws.



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

3.22 Install the seat assembly on the upper portion of the mounting plate using the following items (furnished with seat assembly) and install in the following sequence:

(1) Four 1/4-20 by 1-1/8 carriage bolts (install with heads on outside of booth)

(2) Four B-650893 spacers

(3) Seat assembly

(4) Two 1/4-inch flat washers (front and rear bolts)

(5) Four 1/4-inch lockwashers

(6) Four 1/4-inch cap nuts.

3.23 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. 3), proceed as follows:

(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.

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- (4) Place backboard in position on column.
- (5) Secure backboard using flat washers, lockwashers, and nuts furnished with the assembly.
- (6) Replace the upper and lower plate assembly on backboard.

CIRCUIT BREAKER BOX

3.25 Install the KS-19426, List 17 circuit breaker box (if applicable) per Fig. 22. Have local electrician install circuit breakers.

MULTIPLE INSTALLATIONS (NO SEPARATION)

3.26 Install first booth as outlined in paragraphs 3.03 and 3.04.

3.27 Install adhesive backing weather strip on second booth per Fig. 15.

Note: The length of the strip is same as a KS-19580 booth, consequently it will have to be cut to fit the KS-19425 booth.

3.28 Install second booth against first booth and join the two booths together using the remaining items in the KS-19580, List 20 multiple kit (Fig. 15). The frames are installed in the same manner as the side panels.

3.29 Refer to paragraph 2.10 and 2.11 for requirements on use of the KS-19580, List 51 receptacle assembly.

3.30 Install the B-650837 bracket on the B-650839 channel using two No. 8-32 by 3/8 Phillips roundhead self-tapping screws (Fig. 8).

3.31 Install the receptacle assembly on the bracket (Fig. 8) using the four remaining No. 8-32 by 3/8 Phillips roundhead self-tapping screws.

4. MAINTENANCE

4.01 The local telephone company shall establish the appearance standards of all exposed surfaces.

4.02 The local telephone company shall establish the safety standards for all booths.

4.03 All screws threaded into aluminum parts during the course of repair shall be coated with KS-19094 antiseize compound.

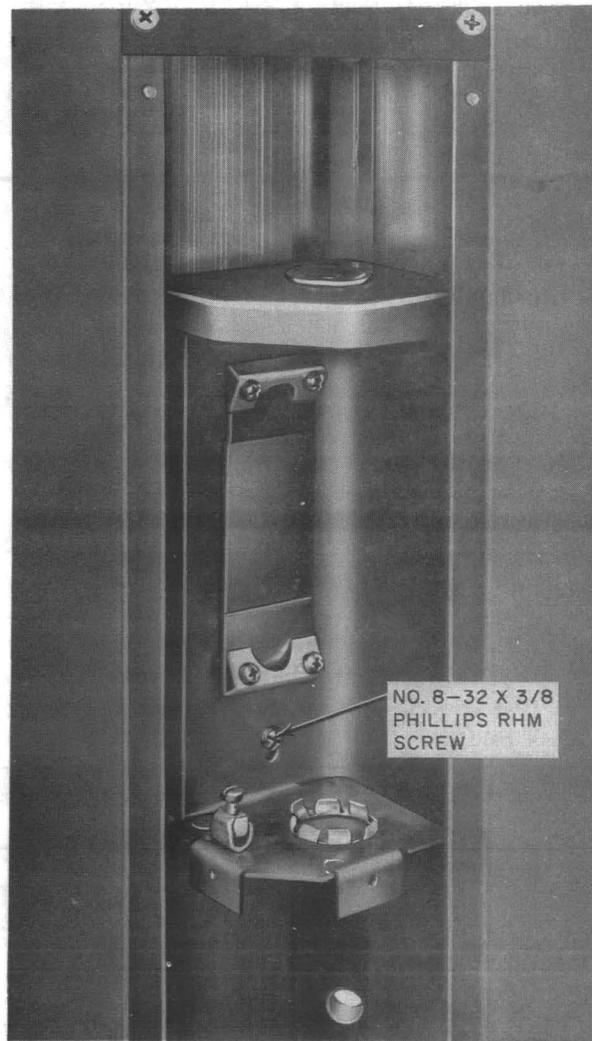


Fig. 22—Installation of Circuit Breaker Box in Lower Backboard

BOOTH CHECK POINTS

4.04 The following are booth check points:

- Safe approach to booth (have dangerous conditions corrected)
- Appearance of booth
- Electrical grounding
- Door operation

- Panels and signs
- Booth lighting
- Directories and binders
- Dome and lights
- Security of booth anchorage
- Loose screws and bolts
- Seat assembly (if applicable)
- Shelf assemblies
- Power cords
- Bumper guards (outdoor booths).

DOME ASSEMBLY

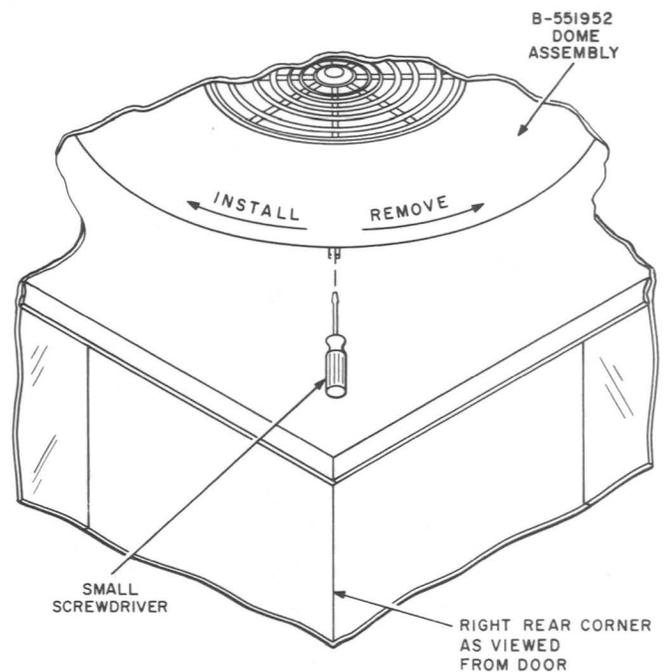
DANGER: Use eye protection when removing the dome assembly.

- 4.05 The B-551952 dome assembly must be removed to make the light assembly accessible. Do this in accordance with Fig. 23.
- 4.06 Replace dome assemblies which do not meet local telephone company standards.

LIGHT AND BLOWER UNIT

DANGER: Use eye protection when handling fluorescent lamps. Before making any repairs or replacements in electrical equipment, disconnect plug or turn the service switch OFF and verify that circuit is dead by checking with an approved voltmeter.

- 4.07 Ensure that the door-operated switch assembly (B-650927) actuates properly when the door is closed. Also ensure that the manually operated blower switch assembly (B-684779-2), if present, located in the right-rear corner of the booth, turns the blower on and off.
- 4.08 Ensure that all electrical leads are securely clamped away from the air inlet hole and from the rotating impeller if a blower is present.
- 4.09 When the ballast shows signs of leaking compound, replace the complete KS-19207 unit. Refer to Section 508-820-100.



NOTES:

1. FOR REMOVAL, INSERT SMALL SCREWDRIVER THROUGH SLOT IN CEILING, DEPRESS DETENT SPRING, AND TURN DOME ASSEMBLY COUNTERCLOCKWISE.
2. FOR INSTALLATION, PLACE DOME ASSEMBLY IN CEILING AND TURN IT CLOCKWISE UNTIL DETENT SPRING ENGAGES AND LOCKS DOME.

Fig. 23—Method of Removing Dome Assembly

PANEL REPLACEMENT

A. Side and Rear Panels

DANGER: Wear gloves and eye protection when handling glass panels to prevent personal injury. Use care when handling tempered glass. Nicks or scratches will damage the glass and may cause it to shatter. Do not allow metal tools to come in contact with edge of tempered glass. Before installation, examine glass for nicks or chips along edges. If such defects are apparent, do not use this glass.

- 4.10 Replace those panels which are broken or which will not meet local telephone company standards. Refer to Table A for available panels.
- 4.11 Booth panels and signs are held in place by four interlocking retaining strips. They are inserted in sequence as shown in Fig. 24. The No. 4

strip is rippled and is held in place by interface friction.

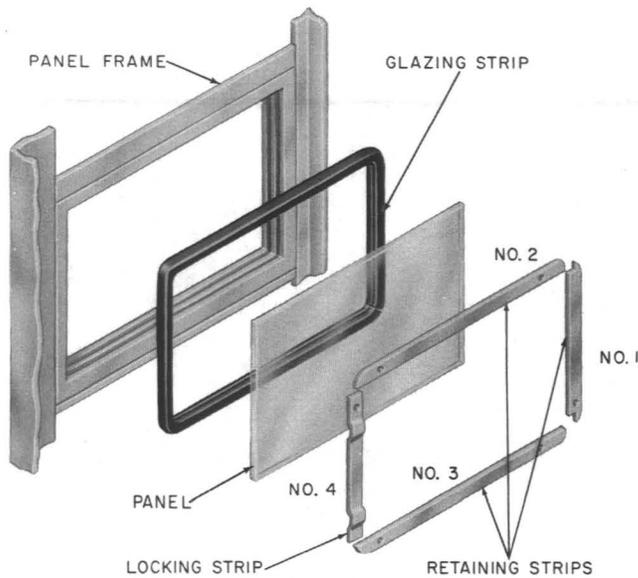


Fig. 24—Assembly of Side or Rear Panels

4.12 Replace panels as follows:

- (1) Remove No. 4 locking strip.
- (2) Remove retaining strips No. 2 and No. 3.
- (3) Remove retaining strip No. 1.
- (4) Remove panel and rubber glazing strip.
- (5) Apply rubber glazing strip to replacement panel.
- (6) Insert panel into frame with the beaded edge of retaining strip on the outside.
- (7) Replace retaining strips in sequence as shown in Fig. 24.

B. Bottom Panels

4.13 Replace those panels which are broken or which will not meet local telephone company standards. Refer to Table C for available panels.

4.14 Bottom panels may be removed as follows.

- (1) Remove bolts that secure panels to mounting angles (Fig. 13).
- (2) Remove Phillips roundhead screws that secure panels to corner columns.
- (3) Use reverse procedure for installing.

PHONE SIGNS

4.15 The front sign may be removed as follows:

- (1) Remove four self-tapping screws from top edge of frame and the metal retainer which secures the sign.
- (2) Slide the sign up and out of the enclosure assembly.
- (3) Use reverse procedure for installing.



Roof must be removed before side and rear sign panels can be removed.

4.16 The side and rear signs are removed in the same manner as the side panels (Fig. 24).

4.17 Replace signs which are broken or which will not meet local telephone company standards. Refer to Table B for available signs.

SEAT AND SHELF ASSEMBLIES

4.18 Refer to Part 3 for installation procedures.

DIRECTORIES AND BINDERS

4.19 Directory binder rods or hinge fasteners shall not be broken or distorted to the extent that directories are not capable of being held securely in the binder. Hinges shall not be so bent, burred, or distorted as to obstruct the free passage of hinge fasteners or prevent smooth operation of covers.

4.20 Binder locking devices shall operate freely and lock securely. Adjustable backplates shall be in good condition.

4.21 Ensure that a rubber bumper is in place on the directory rack hanger to cushion the binder as it drops into the rack. Use as follows:

- (a) B-685401 for KS-19425, List 16 directory rack

- (b) B-697467 for KS-20030, List 3 directory hanger.

4.22 Install a new bumper, if required, as follows:

- (1) Soften old adhesive with trichloroethane and remove.
- (2) Install new bumper using 3M Company EC-1711 adhesive or equivalent.

PROTECTOR GROUND

4.23 The protector is located in the rear of the ceiling area (Fig. 8) or if a lower backboard (Fig. 3) is used, it may be located there.

4.24 When located in the ceiling area, the protector can be reached by removing the dome assembly (Fig. 23).

4.25 The booth is equipped with a bonding wire at the protector. Ensure that this wire is secured to the booth and protector.

4.26 If the bonding wire becomes broken, replace with No. 12 gauge copper station ground wire.

Converting Protector Mounting Bracket for Better Accessibility

4.27 The following items are required (Fig. 9) and must be ordered separately:

- (a) B-992745 plate
- (b) Two No. 8-32 by 3/8 Phillips roundhead self-tapping screws.

4.28 Disconnect telephone wires and ground from protector.

4.29 Remove two No. 8-32 by 1/2 Phillips roundhead self-tapping screws and remove protector from existing mounting bracket.

4.30 Install protector on B-992745 plate using the two screws removed in paragraph 4.29.

4.31 Insert two No. 8-32 by 3/8 Phillips roundhead self-tapping screws in the B-992745 plate to align with the keyhole slots in the B-650838 bracket.

4.32 Install plate (with protector) on the angle bracket utilizing the keyhole slots. Tighten the two screws.

4.33 Reconnect telephone wires and ground.

ROOF

4.34 If it becomes necessary to remove the roof, remove twelve No. 8-32 by 5/8 Phillips roundhead screws and lift off.

4.35 There are four adhesive backed vinyl strips which are located along the booth edge under the roof. Check strips for damage each time roof is removed.

4.36 Replace strips as necessary.

DOOR REQUIREMENTS AND MAINTENANCE (see Fig. 25 for Replacement Parts)

4.37 The door shall operate freely and smoothly without squeaking or chattering. The nylon rollers and door track shall be clean of foreign materials and the track shall not be gouged, burred, or scored causing rough operation of the door.

4.38 With the booth level, when the door is fully closed, it shall remain closed until opened manually, and when in the fully closed position, the top of the door shall be in alignment with the door frame.

4.39 In outdoor locations, the door shall be held open 2 to 3 inches when in the normal position. Ensure that maximum tension is obtained on spring in center of door (Fig. 25).

4.40 The door-actuated switch shall operate as follows when the manual blower switch is on:

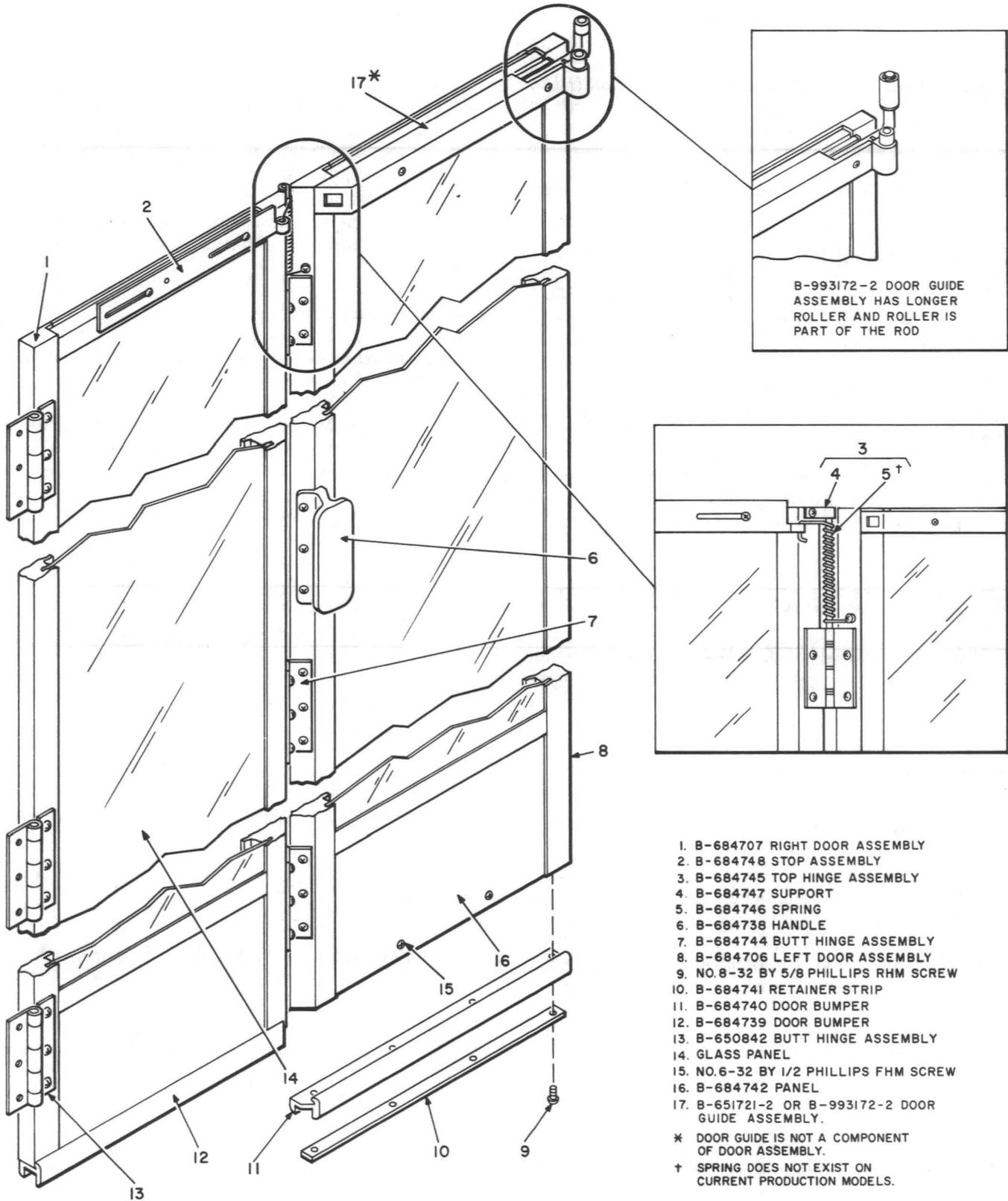
- (a) With the door fully closed, the blower motor shall run.
- (b) With the door in the open position specified in paragraph 4.39, the blower motor shall be off.



The door switch shall have no effect on the operation of the booth lamps if the lamps are wired for continuous illumination or automatic light control.

4.41 The open clearance shall be a minimum of 21 inches.

4.42 Rubber bumpers at the bottom of the doors shall not be frayed or torn to expose underly-



- 1. B-684707 RIGHT DOOR ASSEMBLY
 - 2. B-684748 STOP ASSEMBLY
 - 3. B-684745 TOP HINGE ASSEMBLY
 - 4. B-684747 SUPPORT
 - 5. B-684746 SPRING
 - 6. B-684738 HANDLE
 - 7. B-684744 BUTT HINGE ASSEMBLY
 - 8. B-684706 LEFT DOOR ASSEMBLY
 - 9. NO.8-32 BY 5/8 PHILLIPS RHM SCREW
 - 10. B-684741 RETAINER STRIP
 - 11. B-684740 DOOR BUMPER
 - 12. B-684739 DOOR BUMPER
 - 13. B-650842 BUTT HINGE ASSEMBLY
 - 14. GLASS PANEL
 - 15. NO.6-32 BY 1/2 PHILLIPS FHM SCREW
 - 16. B-684742 PANEL
 - 17. B-651721-2 OR B-993172-2 DOOR GUIDE ASSEMBLY.
- * DOOR GUIDE IS NOT A COMPONENT OF DOOR ASSEMBLY.
- † SPRING DOES NOT EXIST ON CURRENT PRODUCTION MODELS.

Fig. 25—B-684705 Door Assembly

ing metal. Screws and retainer strips shall hold bumpers securely.

- 4.43** Ensure that angle bracket associated with felt bumper in door track is tight.
- 4.44** If door hinges squeak, lubricate them at each joint between the barrels with KS-14774, List 2G lubricating grease or equivalent; KS-14796 oiler may be used.
- 4.45** Replace glass panels in same manner as side panels (Fig. 24).
- 4.46** Replace damaged bumpers along bottom of door (Fig. 25).
- 4.47** To change door closing spring tensions, adjust B-684748 stop assembly as follows:

- (1) Loosen the two stop assembly mounting screws.
- (2) Move the assembly left or right to obtain the spring tension required.
- (3) Tighten screws and recheck tension.

◆**Note:** Only required for the KS-19425, List 2 booth.◆

4.48 When door rollers do not have proper vertical engagement in the track, adjust door guide assembly as follows:

- (1) Remove two screws and B-651720 cover (Fig. 26 and 27).
- (2) Loosen three door guide assembly mounting screws.
- (3) Move the door guide assembly up or down to obtain proper roller position.

Note: In most cases, the maximum upward position will be required.

- (4) Tighten screws and recheck rollers.
- (5) Install B-651720 cover.

DOOR GUIDE ASSEMBLY

4.49 The KS-19425 booth will have either a B-651721-1 short-roller door guide assembly (Fig. 26) or a B-993172-1 long-roller door guide assembly (Fig. 27).

4.50 The B-993172-2 door guide assembly requires a different ceiling, baffle, and a deeper track to accommodate the longer roller. If a problem exists with door guide rollers jumping out of the track, and this cannot be corrected by adjustment as directed in paragraphs 3.04(d) and 4.48, booths can be modified to accept the long-roller door guide. Parts and instructions are included in SI-376 Track and Door Guide Modification Kit.



This modification is extensive and should be investigated before field application.

REPLACEMENT PARTS

4.51 The parts listed in Table D are not shown in Fig. 25, 26, and 27 but may be ordered as necessary. Refer to Tables A, B, and C for panels and signs.

CLEANING

4.52 Clean booth as directed in Section 508-100-101.

1. B-650848 ROLLER
2. B-651755-1 DOOR ROD
3. NO. 8-32 BY 1/4 PHILLIPS RHM SCREW (2)
4. B-651720 COVER
5. B-650846 BUSHING
6. NO. 7/64 X 9/16 PIN
7. B-651756 COLLAR
8. B-650849 SPRING
9. B-651719 BASE ASSEMBLY

* ROLLERS ARE NOT A PART OF THIS ASSEMBLY.

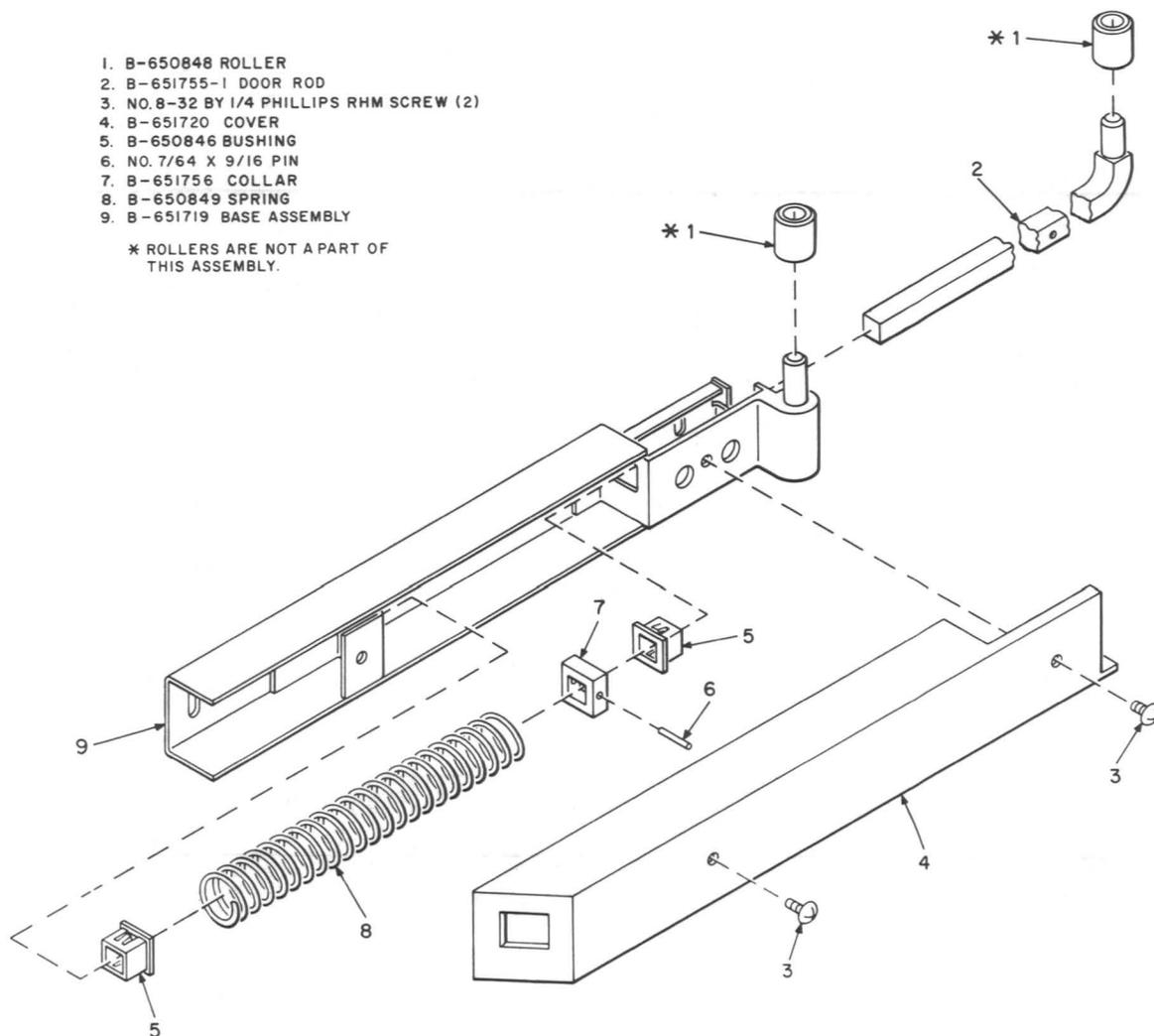


Fig. 26—B-651721-1 Door Guide Assembly

1. B-650848-1 ROLLER
2. L-764967 DOOR ROD ASSEMBLY
3. NO. 8-32 BY 1/4 PHILLIPS RHM SCREW (2)
4. B-651720 COVER
5. B-650846 BUSHING
6. NO. 7/64 X 9/16 PIN
7. B-651756 COLLAR
8. B-650849 SPRING
9. B-651719 BASE ASSEMBLY
10. L-764807 ROLLER

* B-650848 ROLLER IS NOT PART OF THIS ASSEMBLY

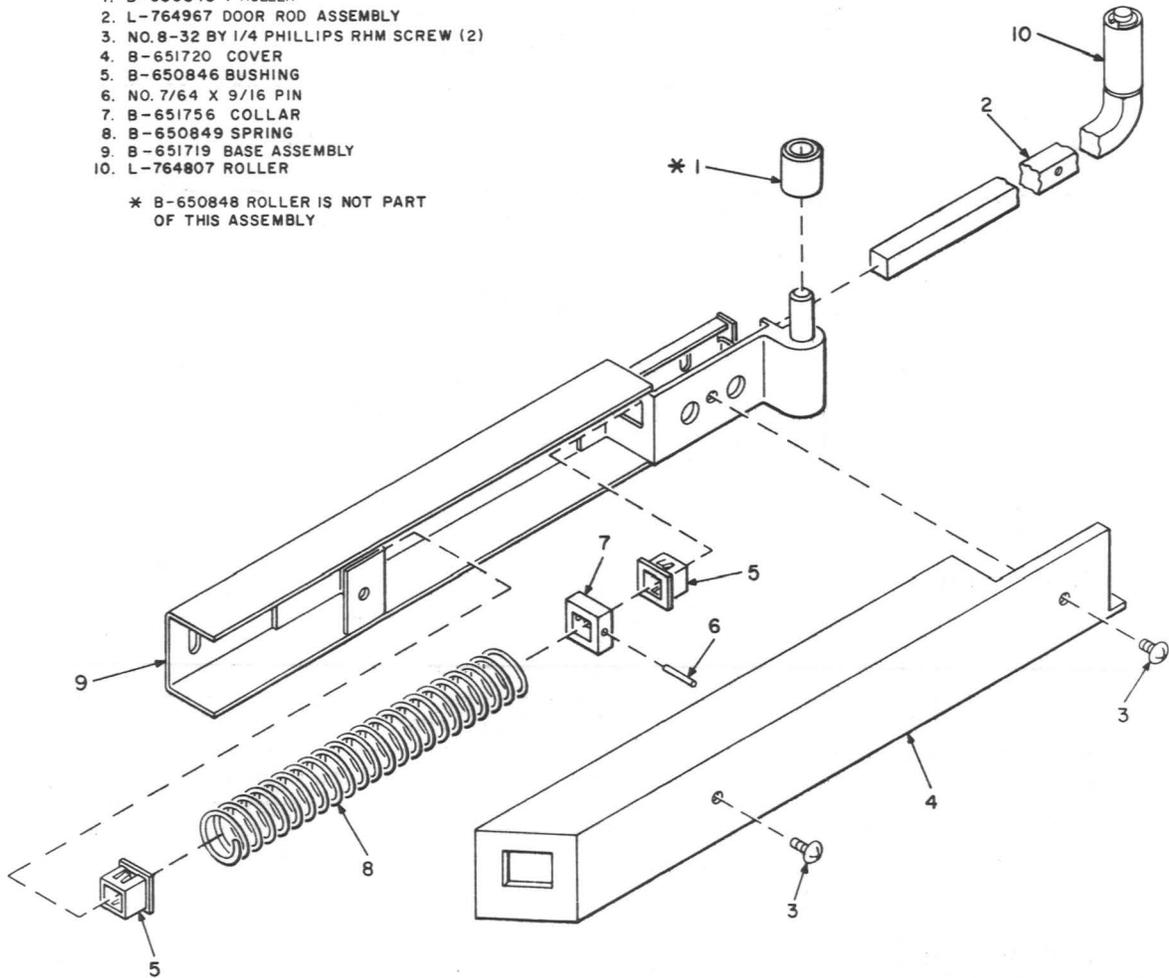


Fig. 27—B-993172-1 Door Guide Assembly

TABLE D
REPLACEMENT PARTS

NAME	PART NO., LIST NO., OR DESCRIPTION	REMARKS
Actuator Assembly	B-650929	Actuates B-650927 switch assembly
Angle	B-650824	Support for B-650825 bumper
	L-764805	Support for L-764806 bumper
Backboard Assembly	B-650829	For coin telephone
Bracket	B-994165	Holds dome in ceiling assembly*
Bumper, Felt	B-650825	Located in right end of a shallow door track as viewed from outside front of booth
	L-764806	Located in right end of a deep door track as viewed from outside front of booth
Bumper, Aluminum	B-650826	Located in left end of a shallow door track as viewed from outside front of booth
Bumper, Rubber	B-684714	Used on left door frame
Dome Assembly	B-551952	Circular lens and ventilator under light fixture
Enclosure Assembly	B-685376	Encloses front sign
Floor	B-650815-1	Tread plate
Header Assembly	B-650822	—
Lamp	40-watt Circline cool white	Used in KS-19207 light unit
Plug	Shake Proof Corporation No. 207-440401-00-0667	Plug button for plugging light control entrance hole
Retainer	B-562371	Use with B-562370 locking spring *
Roof	B-650855	—
Spring	B-562370	Locks dome in place*
Angle Assembly	B-994924	Tie down and leveling equipment for List 4 booth
Angle Assembly	B-684710	
Angle Assembly	B-684711	
Nut	B-684712	
Bolt	B-684713-1	
Bolt	B-684713-2	

See footnotes at end of table.

TABLE D (Contd)
REPLACEMENT PARTS

NAME	PART NO., LIST NO., OR DESCRIPTION	REMARKS
Strip, Glazing	B-685410-1	Side or rear sign
	B-685410-2	Side or rear glass panels (large)
	B-685410-3	Side and rear glass panels (small)
	B-685410-4	Door panels
	B-685411-1	Multiple installation panel assembly and power entrance panel
	B-685411-2	Aluminum or porcelain type panels (large)
	B-685411-3	Aluminum or porcelain type panels (small)
	B-685410-5	Front sign
Strip, Retaining	B-685372-1	Top of door panels
	B-685372-2	Either side of door panels
	B-685372-3	Bottom of door panels
	B-685372-4	Either side of large side panels
	B-685372-5	Locking strip for large side panels
	B-685372-6	Either side of small side panels
	B-685372-7	Top of small side panels, large side panels, or side and rear phone signs
	B-685372-8	Locking strip for small side panels
	B-685372-9	Bottom of small side panels, large side panels, or side and rear phone signs
	B-685372-10	Either side of phone signs (front and rear)
	B-685372-11	Locking strip for phone signs
Strip, Weather	3M Company Single-coated tape No. 4508, pressure sensitive, 1/8-inch thick, 3/4-inch wide, black vinyl foam	Adhesive backed roof gaskets†
Switch Assembly	B-650927	Energizes light when door is closed
	B-684779-2	Turns blower motor on and off
Grommet	B-684716	Used at telephone wire entrance holes

* Component of ceiling assembly B-993173.

† Roof gaskets should be checked for damage each time roof is removed.