

KS-19442 TELEPHONE BOOTH

IDENTIFICATION AND INSTALLATION

1. GENERAL

1.01 The KS-19442 deluxe glass telephone booth is designed for indoor, sitdown service (Fig. 1). It may be used singly or in various multiple arrangements (side-by-side and/or back-to-back).

1.02 This section is reissued to:

- Revise references

1.03 This booth is not designed to include an interior directory; all glass booths are intended for locations that have directory shelves or tables.

1.04 The overall dimensions of the booth are:

- Height—83-1/8 inches
- Width—34-1/8 inches
- Depth—34-1/8 inches

2. IDENTIFICATION

2.01 The KS-19442 booth consists of an extruded aluminum framework, covered with metal strips or appliques to provide a variety of finishes. These strips are either snapped or crimped in place and are available in stainless steel, satin-finished anodized aluminum, or medium bronze-colored anodized aluminum.

2.02 Single glass panels extend from the ceiling to the base of each wall. Acoustic panels for rear and right sides are available if required.

2.03 Booth levelers are provided in the base of each wall and are concealed by black kickplates located around the base of the booth.

2.04 The booth interior is finished in black, including the formed plastic seat, retaining strips, kickplates, and flat ceiling.

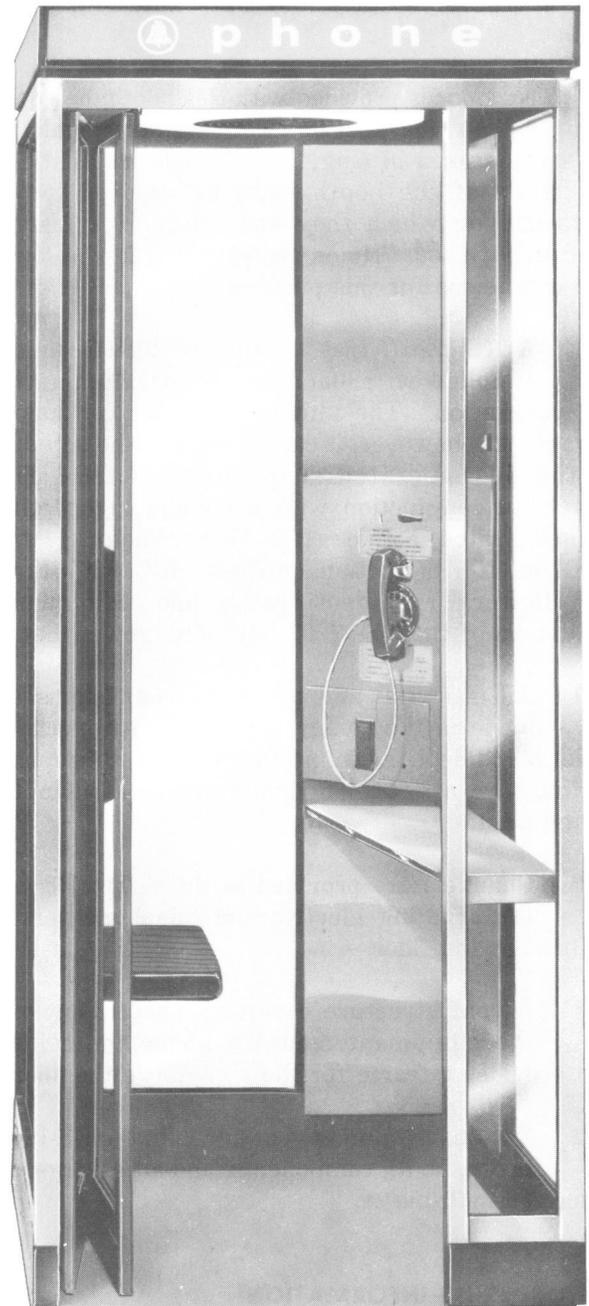


Fig. 1—KS-19442 Deluxe Telephone Booth

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2.05 A thick tempered glass writing shelf spans the right wall and extends beneath the coin telephone.

2.06 Stainless steel panels are mounted in the right rear corner to provide a mounting for the backboard. The booth was designed for the 1A/1C-type coin telephone sets and coin panel phones.

2.07 No floor is provided with this booth; however, a KS-19442, List 90 floor (Fig. 1) is available and can be used in single or multiple installations. The walls of the booth must be secured to the surface upon which they are placed if a List 90 floor is not used. Holes are provided in the lower wall extrusions for this purpose.

2.08 A KS-19207, List 1 light and blower unit is supplied with each booth for illumination and ventilation. The unit is wired for continuous illumination; however, it can be wired to be actuated by the door-operated snap-action switch. This switch, in conjunction with a customer controlled manual switch, actuates the blower motor. Refer to Division 508, section entitled: KS-19207 Light and Blower Unit, Identification and Maintenance for details of the KS-19207 light and blower unit.

2.09 All electrical and telephone connections are made in the ceiling assembly. An electrical outlet box, telephone connecting block, and telephone wiring are all furnished and are located in the ceiling area.

2.10 Channels are provided in the right side wall for bringing electric and telephone service in through the floor.

2.11 A roof structure covers the booth, encloses the equipment mounted above the ceiling, and provides a frame for the sign above the door.

2.12 Various list numbers assigned to the KS-19442 booth, booth components, and accessories are described in Table A.

3. ORDERING INFORMATION



The differences between List 1 and List 21 booths are shown in Table B.

3.01 For single installation, order List 1 booth (Fig. 8A).

3.02 For a side-by-side multiple installation, order one List 1 booth and the remainder as List 21 booth(s) (Fig. 8B).

3.03 For a back-to-back installation where only two booths are used, order two List 1 booths (Fig. 8C).

3.04 For a back-to-back installation where more than two booths are used, order two List 1 booths and the remainder as List 21 booths (Fig. 8D).



When ordering booths for back-to-back installations, order one 1/4-20 by 3/4 hex socket head cap screw and one 1/4-20 by 1-1/2 hex socket head cap screw for each booth ordered. These screws are required for fastening the backs of the booths together.

3.05 The KS-19732, List 2 template, KS-19783, List 1 dolly, KS-19783, List 2 brace, KS-19442, List 90 floor, and 127A cover must be ordered separately as required.

3.06 Orders for the booth shall specify quantity, KS-number, and list number of each booth, and finish, plus each accessory required.

Note: Unless otherwise specified, a KS-19442, List 65 sign panel and a KS-19340, List 54 backboard will be furnished with each booth.

3.07 The following are examples of typical orders:

Example 1—Single Booth (Fig. 8A)

1—Booth, Telephone, KS-19442, L1 with L81 finish

1—127A Cover

Example 2—Three Booths Side-by-Side (Fig. 8B)

1—Booth, Telephone, KS-19442, L1 with L82 finish

2—Booths, Telephone, KS-19442, L21 with L82 finish

TABLE A
BASIC LIST NUMBERS AND ACCESSORIES

PART NO.	DESCRIPTION	REMARKS	
KS-19442	List 1	Booth (Fig. 1)	Complete booth for single installation
	List 21		For multiple installations
	List 30	Roof and ceiling assembly	
	List 52	Shelf	Tempered glass
	List 51	Tempered glass panel	Door
	List 53		Rear or right side
	List 57		Left side
	List 59		Front
	List 54	Acoustic panel*	Rear or right side
	List 62	Sign panel	White blank
	List 65		White letters — blue background
	List 68		Blue blank
	List 69		Blue letters — white background
	List 81	Trim and accessory finish	Satin — finish anodized aluminum
	List 82		Stainless steel
	List 83		Medium bronze-colored anodized aluminum
	List 90	Floor†	Dark gray synthetic rubber bonded to a metal base
KS-19340	List 53	Backboard (Fig. 2)	For 1A/1C-type coin telephone
	List 54		For 235G/2A/2C-type coin telephone
KS-19425	List 22	Cable assembly (Fig. 3)	For incoming power and interconnecting multiple booths
KS-19783	List 1	Dolly† (Fig. 4)	For transporting booth without floor
	List 2	Brace† (Fig. 5)	For supporting a booth without floor where dolly is not required
KS-19732	List 2	Template† (Fig. 6)	For locating anchoring holes
127A		Cover† (Fig. 7)	For 235G/2A/2C-type coin telephone

* Acoustic panels must be used in the rear of each back-to-back booth. They are optional in the right side of all arrangements and in the rear of single booths.

† Dolly, brace, floor, template, and cover must be ordered separately.

TABLE B
COMPONENT DIFFERENCES BETWEEN
LIST 1 AND LIST 21 BOOTHS

COMPONENT		LOCATION	LIST 1	LIST 21	REMARKS
G4 Glazing Strip		In left wall	•		
L57 Glass Panel			•		
B-651879-1 Rail (2 used)				•	Horizontal
B-651879-2 Rail (2 used)				•	Vertical
K6	Kickplate	Bottom left—outside wall	•		
K7		Bottom right—outside wall	•		
K9		Bottom front—outside wall		•	Packaged separately
T5	Trim Strip	Top left—outside wall	•		
T6		Top right—outside wall	•		
T7		Bottom left—outside wall	•		
T8		Bottom right—outside wall	•		
1/4-20 x 3/4 Hex Soc Hd Cap Screw (2 used)		Left wall—bottom		•	Used to tie two booths together in a side-by-side installation
1/4-20 x 1-1/2 Hex Soc Hd Cap Screw (2 used)		Left wall—top		•	

2—Panels, Blank, KS-19442, L68*

6—Screws, Hex Socket Hd Cap, 1/4-20 by 3/4

3—127A Covers

6—Screws, Hex Socket Hd Cap, 1/4-20 by 1-1/2

Example 3—Six Booths Back-to-Back (Fig. 8D)

2—Booths, Telephone, KS-19442, L1 with L83 finish

*List 68 blank panels shall be on end booths of each line-up.

4—Booths, Telephone, KS-19442, L21 with L83 finish

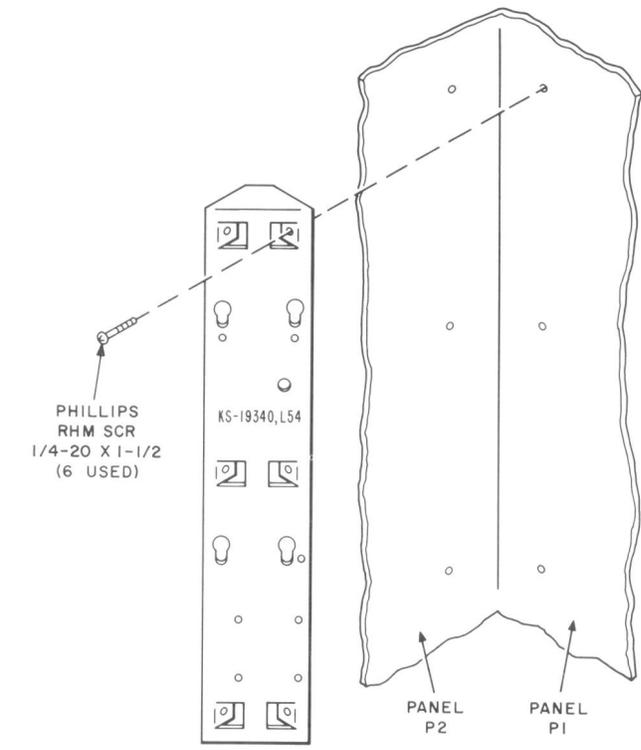
†Acoustic panels are installed in the rear of each back-to-back booth.

4—Panels, Blank, KS-19442, L68*

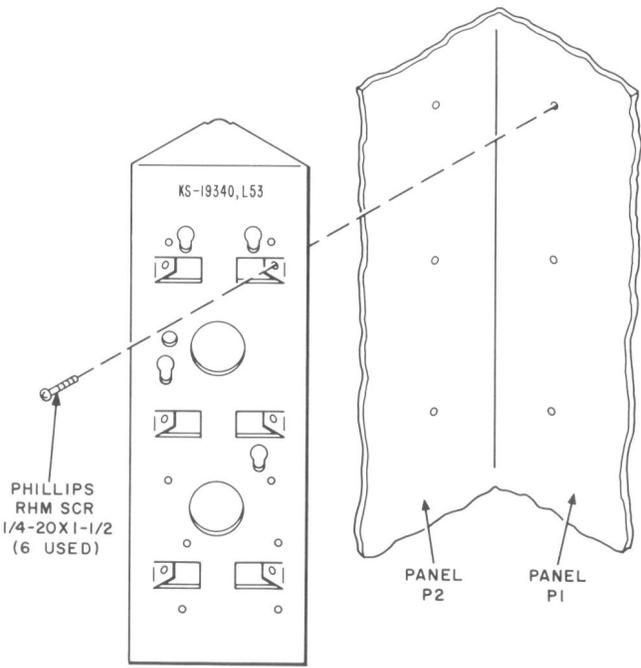
6—Panels, Accoustic, KS-19442, L54†



Optional signs, sign blanks, backboards, cable assemblies, acoustic panels, and floors must be specified as required.



A



B

Fig. 2—Installation of Backboards

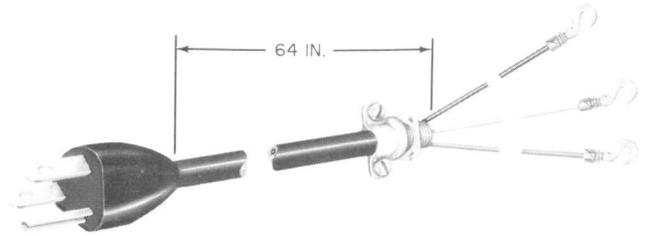


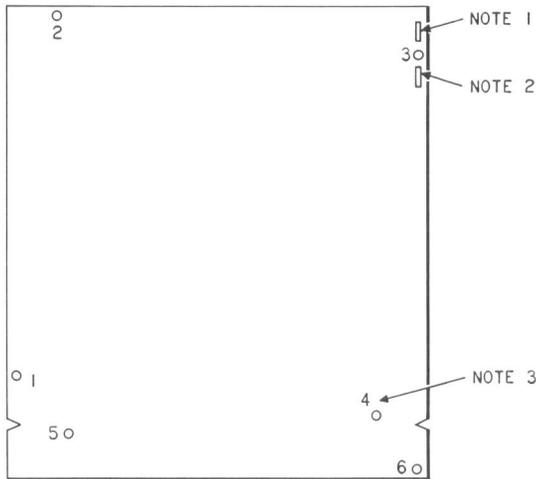
Fig. 3—KS-19425, List 22 Cable Assembly



Fig. 4—KS-19783, List 1 Dolly



Fig. 5—KS-19783, List 2 Brace



- NOTES:
1. OPENING FOR TELEPHONE ENTRANCE.
 2. OPENING FOR POWER ENTRANCE.
 3. THE NUMBERS ARE FOR REFERENCE ONLY.
 4. TWO 1/4 IN. X 1-1/2 IN. STEEL RODS WILL BE FURNISHED WITH EACH TEMPLATE TO BE USED FOR ALIGNMENT PURPOSES.

Fig. 6—KS-19732, List 2 Template

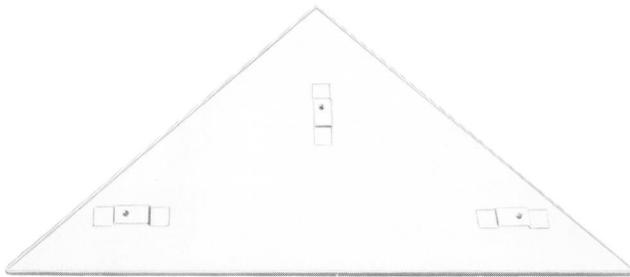


Fig. 7—127A Cover, Bottom Side

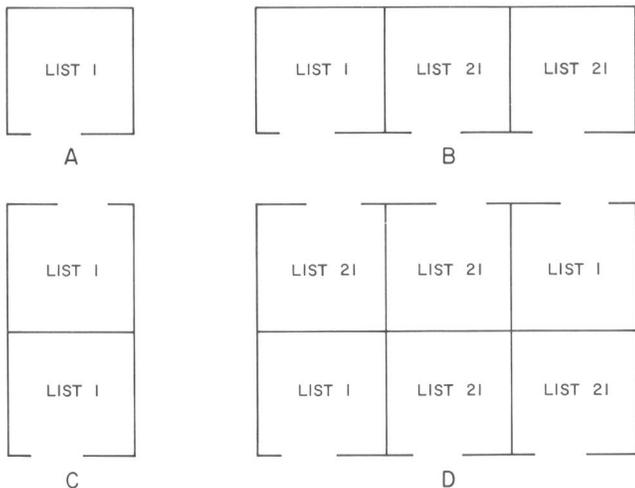


Fig. 8—Layout of Booth Arrangements

4 SPECIAL TOOLS

4.01 The following special tools are required for the installation of the KS-19442 booth:

TOOL	USED TO	SOURCE OF SUPPLY
Awl (2 required)	Line up holes between connecting parts	Obtain locally
Center punch*	Crimp trim strips	Obtain locally
Chalk line*	Mark booth positions	Obtain locally
Compound, antiseize, KS-19094	Coat screw threads which are threaded into aluminum	Western Electric Co.
Glass Lifter* Vacuum Cup (capable of lifting 50 pounds) 2 required	Install glass panels	Obtain locally
Gloves, safety, RS-13515	Handle glass panels	Western Electric Co.
Goggles or face shield, RS-13406A	Protect against glass in case of breakage	Western Electric Co.
Hammer,* soft faced, RS-14770	Crimp trim strips	Western Electric Co.
Knife, safety	Remove packing from booths	Lewis Safety Knife or equivalent
Level (4 ft min)	Ensure that booths are level	Obtain locally
Screwdrivers, Xcelite X-102, SX-102, X-103 and X-1021	Install various components using Phillips screws	Eastern Tool Warehouse 601 West 50th St. New York, New York

TOOL	USED TO	SOURCE OF SUPPLY
Square, † carpenter	Ensure that booths are square	Obtain locally
Template, † locating KS-19732, List 2	Drill holes in floor for mounting booths	Western Electric Co.
Wrench Set, M-51 Williams Super Ratchet Wrench Set (E/W complete set of Allen Head Sockets)	Assemble frames	Local Automotive Parts Distributor

* Required for multiple installations only.

† Not required for booth equipped with List 90 floor.

5. INSTALLATION

SINGLE BOOTH

Note 1: Each KS-19442, booth is shipped assembled, mounted on a skid. If the booth is not equipped with a List 90 floor, do not attempt to move it from the skid without using a KS-19783, List 1 dolly (Fig. 4).

Note 2: If the booth is to be installed against a wall, post, or column, determine if the vertical surface is plumb, using a 4-ft. level, and if any misalignment exists, allow sufficient distance at the base when locating the template (see 5.01).

Note 3: If the booth is to be installed on a carpeted floor, use extreme care not to damage the carpet. Do not cut the carpet even if it will become the booth floor.

Note 4: If the booth is equipped with a List 90 floor, disregard 5.01 through 5.09 except 5.08 (a), (b), and (c).

5.01 Place KS-19732, List 2 template (Fig. 6) in the exact position that the booth will be mounted with holes 1, 2, and 5 on the left side.

5.02 Using the template as a guide, drill 1/4-inch holes at positions 1, 2, 3, and 4 to a depth of approximately 1-1/4 inches.

Note: After the first two holes are drilled, insert two 1/4 by 1-1/2 steel rods (furnished with template) in the holes to prevent the template from slipping while drilling the remaining holes. If underground power and telephone wiring is to be used, mark locations at this time.

5.03 Remove the two steel rods and template from the drilling area.

5.04 The booth is secured to a masonry floor with 3/8-16 by 2 hex socket head cap screws. Select the proper machine bolt anchor to accommodate this size screw and enlarge the drilled holes sufficiently to accept anchors. See the appropriate section on masonry fasteners.

Note: Lag or wood screws of equivalent holding power should be used in wood floors.

5.05 Position the booth adjacent to the mounting location and remove all packing details.

5.06 Remove inside kickplates.

5.07 Install KS-19783, List 1 dolly per Fig. 9 using hardware furnished.

5.08 If inside wiring is to be run from floor:

(a) Position booth so that it is in its approximate mounting location.

(b) Remove the dome assembly (Fig. 10) and fluorescent lamp.

Warning: Use goggles or face shield when removing the dome and lamp.

(c) Drop a weighted fish line from the ceiling area to pull telephone and electric wires separately up through their proper channels (in the right wall frame) to the ceiling area (Fig. 11).

(d) Align mounting holes of booth with mounting holes in floor and remove dolly.

5.09 Insert 3/8-16 by 2 hex socket head cap screws in the mounting holes. Determine that the

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booth is perfectly square. Adjust leveling devices until the booth is perfectly level and secure the four screws.

5.10 Install coin telephone set in accordance with appropriate coin telephone set practices.

5.11 When a coin panel phone is used, install a 127A-type cover (Fig. 7) over the coin telephone using three No. 8-32 by 3/16 RHM screws.

Note: The cover must be ordered separately; screws are furnished with cover.

5.12 Install telephone wiring as outlined in Part 6.

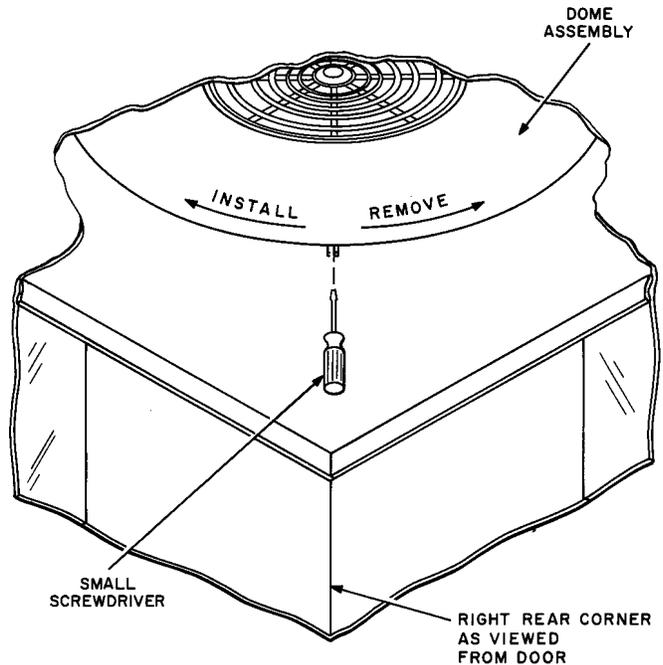
5.13 Install electric wiring as outlined in Part 7.

5.14 Install the inside kickplates which were removed in 5.06.

5.15 Install fluorescent lamp and dome assembly (Fig. 10).

SIDE-BY-SIDE MULTIPLE ARRANGEMENT

Note 1: Arrangements should be made to bring telephone and electrical service wires into an end booth.



- 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. 10—Method of Removing Dome Assembly

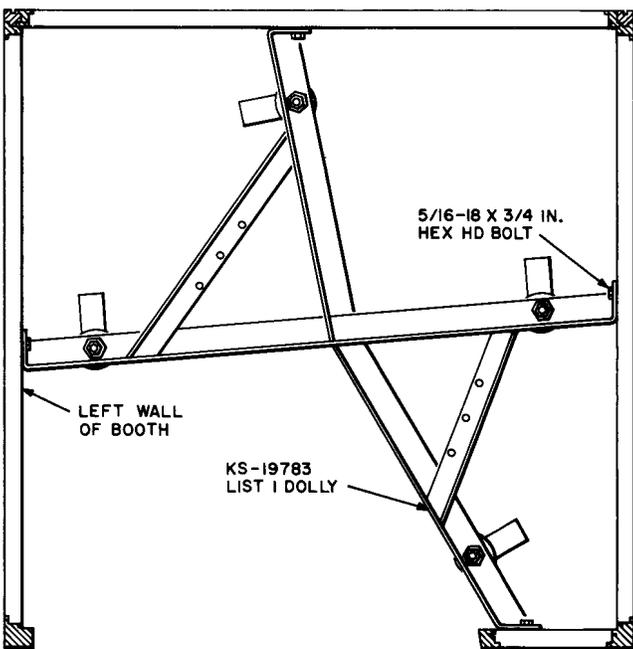


Fig. 9—KS-19783, List 1 Dolly Installed in Booth

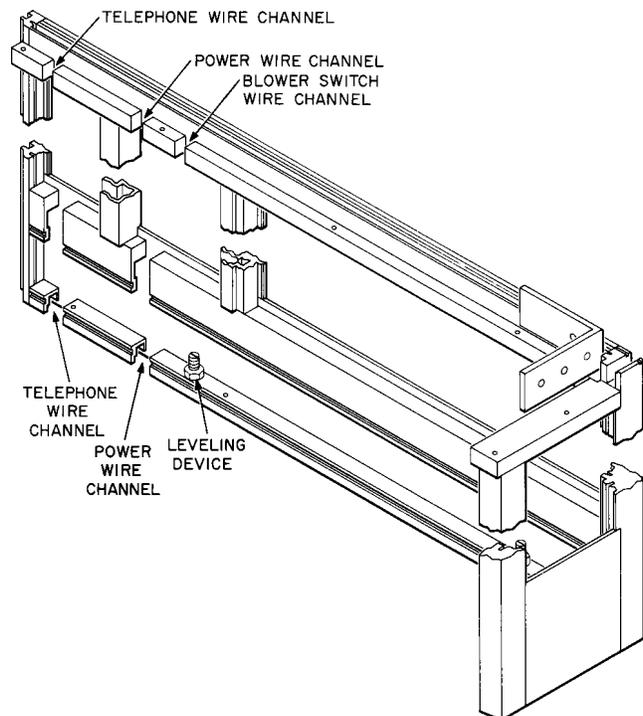


Fig. 11—View of Right Wall Frame Showing Wire Channels

Note 2: KS-19732, List 2 template (Fig. 6) can be used for laying out an arrangement from left to right or from right to left. If the left-hand booth of the lineup is to be against a wall, post, or column, lay out the positions from left to right. If the right-hand booth of the lineup is to be against a wall, post, or column, lay out the positions from right to left.

Note 3: All screws threaded into aluminum parts shall be coated with KS-19094 antiseize compound.

Note 4: Refer to Notes 1, 2, and 3 under *single booth installation*

- 5.16** Use a chalk line and mark the floor where the front edge of the lineup will be (Fig. 12).

Note : If the booths being installed are equipped with List 90 floors, disregard 5.17 through 5.19.

- 5.17** When laying out positions from the left to right, drill holes in the floor as follows:

- (1) Place KS-19732, List 2 template in the position where the left-hand booth will be mounted with the "V" notches on chalk line. Holes 1, 2, and 5 should be to the left.
- (2) Using the template as a guide, drill 1/4-inch holes at positions 1, 2, 3, and 4 to a depth of approximately 1-1/4 inches.

Note: After the first two holes are drilled, insert two 1/4 by 1-1/2 steel rods (furnished with template) in these holes to prevent the template from slipping while drilling the remaining holes.

- (3) Move template to the right and align template holes 5 and 6 with previously drilled holes 3 and 4, respectively (Fig. 12). Insert the two steel rods in these holes.
- (4) Drill 1/4-inch holes at positions 1, 2, 3, and 4 to a depth of approximately 1-1/4 inches.
- (5) If a third booth is to be installed, move template to the right and align template holes 5 and 6 with previously drilled holes 2

and 3, respectively (Fig. 12). Insert the two steel rods in these holes.

- (6) Repeat Step (4).
- (7) If additional booth positions are required, repeat steps (5) and (4) respectively.

- 5.18** When laying out positions from right to left, drill holes in the floor as follows:

- (1) Place KS-19732, List 2 template in the position where the right-hand booth will be mounted with the "V" notches on chalk line. Holes 3, 4, and 6 should be to the right.
- (2) Repeat 5.17 (2).
- (3) Move template to the left and align template holes 5 and 6 with previously drilled holes 1 and 2, respectively (Fig. 13). Insert the two steel rods in these holes.
- (4) Repeat 5.17 (4).
- (5) If a third booth is to be installed, move template to the left and align template holes 5 and 6 with previously drilled holes 2 and 3, respectively (Fig. 13). Insert the two steel rods in these holes.
- (6) Repeat 5.17 (4).
- (7) If additional booth positions are required, repeat 5.18 (5) and 5.17 (4) respectively.

- 5.19** Repeat 5.04.

- 5.20** Install List 1 booth in accordance with 5.05 through 5.15.

Note: List 1 booth is always the left end booth of a line-up.

- 5.21** To install a List 21 booth:

- (1) Remove and retain the following items from the right wall of previous booth (Fig. 14):
 - K7 kickplate—Located on bottom right-outside wall
 - T8 trim strip—Located on bottom right-outside wall

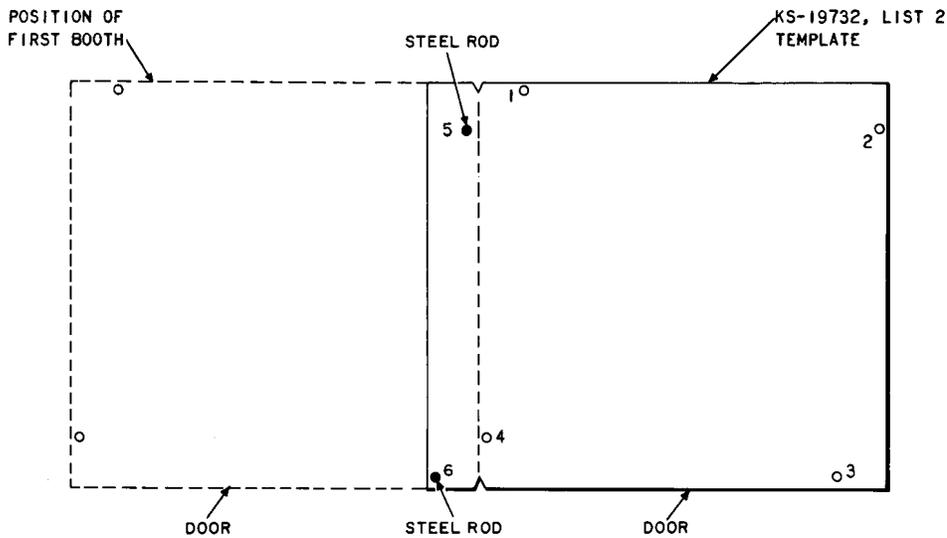


Fig. 12—Left to Right Layout for Drilling Mounting Holes

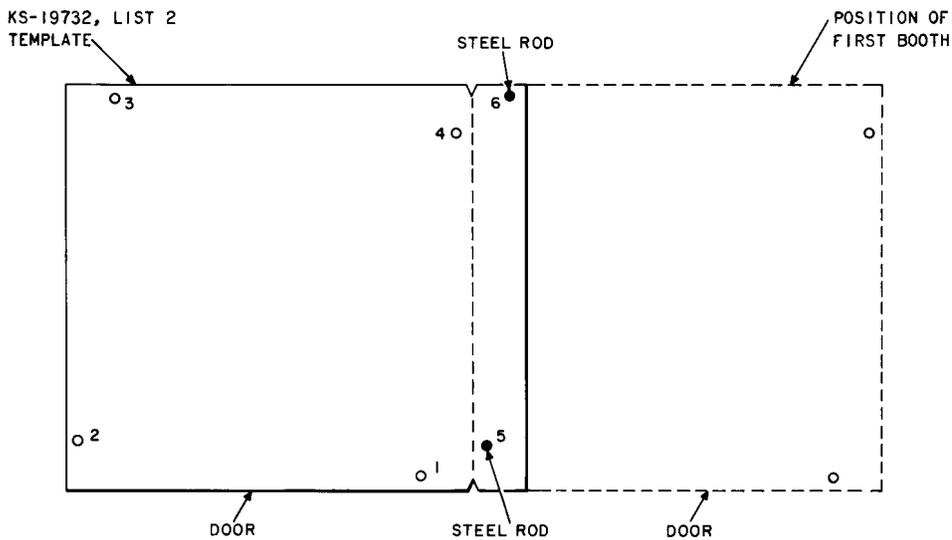


Fig. 13—Right to Left Layout for Drilling Mounting Holes

● T6 trim strip—Located on top right-outside wall



If this is an initial multiple installation, the items listed in (1) will be on the first booth installed (List 1) only.

(2) Place List 21 booth to the right of the previous booth and perform operations outlined in 5.05 through 5.09.

(3) Remove R3 retaining strip from top left-inside wall of the booth being installed (Fig. 15).

(4) Fasten booth walls together at top using two 1/4-20 by 1-1/2 hex socket head cap screws and at the bottom using two 1/4-20 by 3/4 hex socket head cap screws. Screws are furnished with List 21 booth.

(5) Install R3 in its original position.

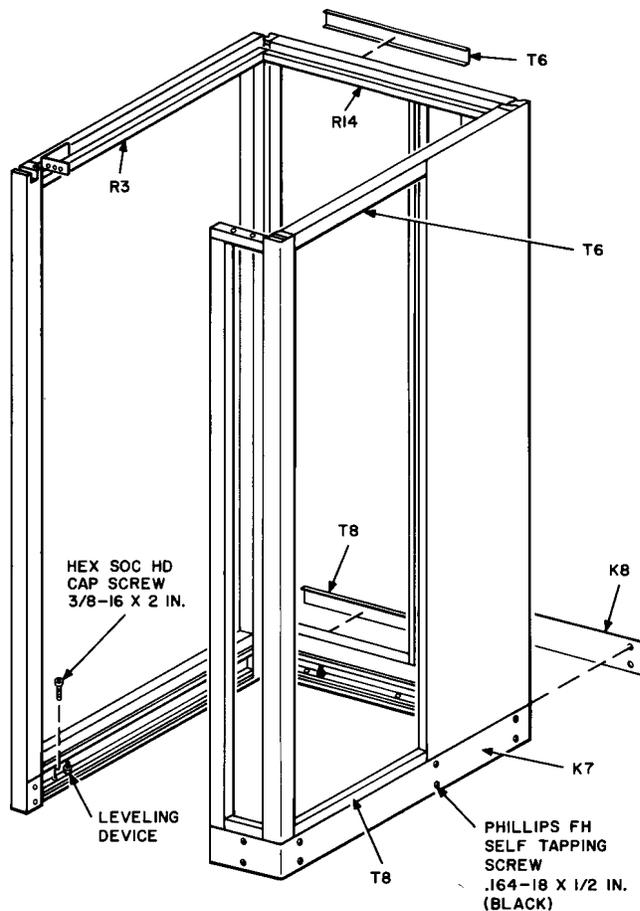


Fig. 14—Partial View of Booth

(6) Install T6, T8, and K7 (Fig. 16) on the last right-hand booth of a line-up.

(7) Crimp the top edge of the T6 trim strip approximately every 6 inches using RS-14770 soft face hammer and a center punch (Fig. 17).

Note: K7 will secure T8 sufficiently without crimping T8.

(8) Install K9 kickplate (packaged separately) on the bottom-front-outside wall between booths (Fig. 16).

5.22 Repeat 5.10 through 5.15.

BACK-TO-BACK MULTIPLE ARRANGEMENT

Note: Refer to Notes 1 through 4 under *side-by-side multiple arrangement* and refer to Fig. 8 for layout.

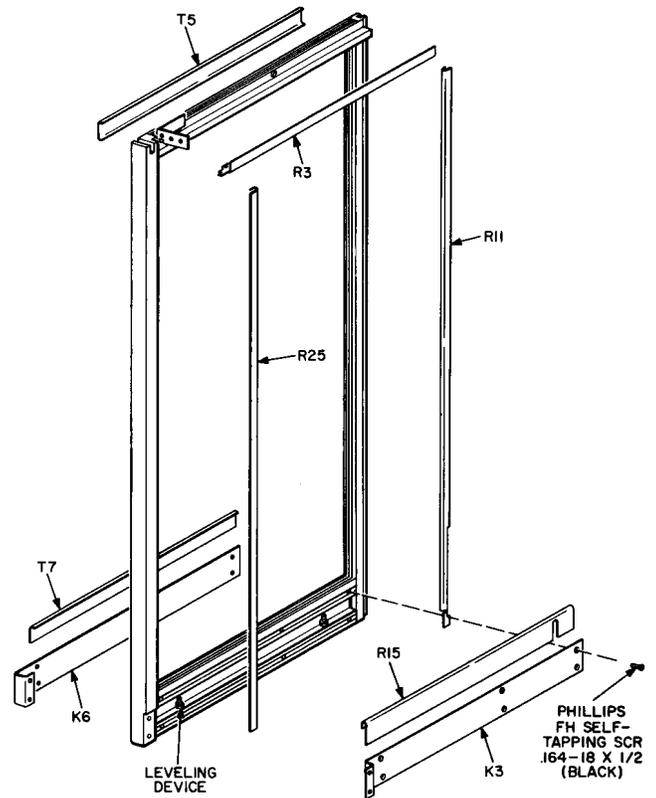


Fig. 15—Partial View of Left Wall

5.23 If more than two booths are to be installed, use a chalk line and mark the floor where the front edge of the line-up will be.

Note: If the booths being installed are equipped with List 90 floors, disregard 5.24.

5.24 When laying out positions for back-to-back multiple arrangements, drill holes as follows:

(1) Perform steps outlined in 5.17 or 5.18 for the front line-up.

(2) Move the template behind the first position as shown in Fig. 18 and align template holes 5 and 6 with previously drilled holes 2 and 3, respectively. Insert the two steel rods in these holes.

(3) Drill 1/4-inch holes at positions 1, 2, 3, and 4 to a depth of approximately 1-1/4 inches.

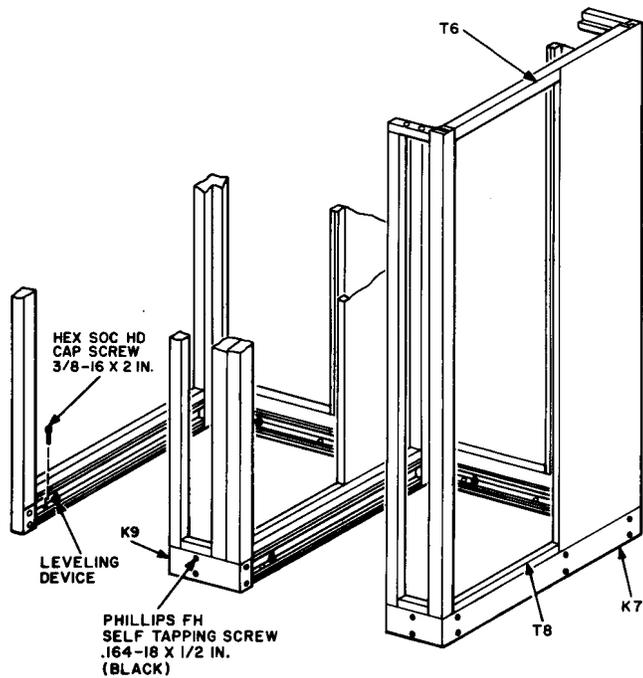


Fig. 16—Partial View of Two Booths

(4) If additional booth positions are required, move the template to the next position and perform operations in (2) and (3).

5.25 Repeat 5.04.

5.26 Install the first List 1 booth in accordance with 5.09 through 5.15.

5.27 For a back-to-back installation of only two booths:

- (1) Remove and discard K8 kickplate, T6 trim strip, and T8 trim strip from outside-rear wall of both booths (Fig. 14).
- (2) Place the second List 1 booth behind the first booth and perform operations outlined in 5.05 through 5.09.
- (3) Remove R14 retaining strip from top rear-inside wall of each booth (Fig. 14).
- (4) Tie booth walls together at the top using two 1/4-20 by 1-1/2 hex socket head cap screws and at the bottom using two 1/4-20 by 3/4 hex socket head cap screws. Screws are not furnished; they must be ordered separately.

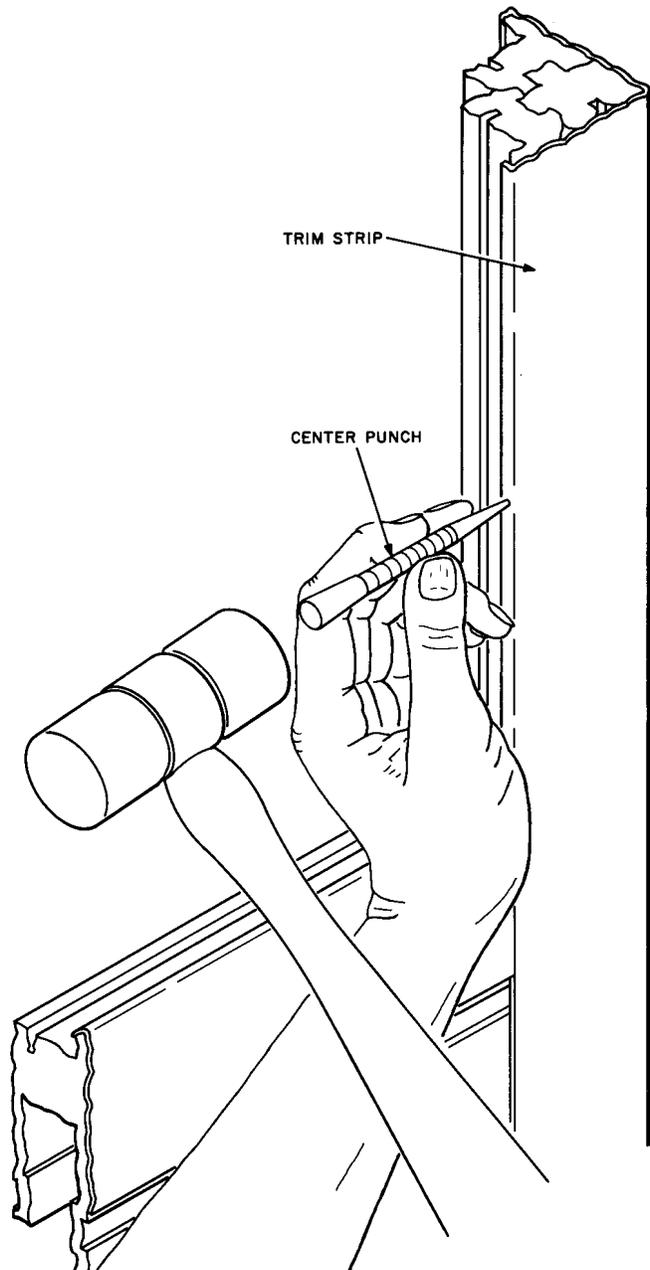


Fig. 17—Method of Crimping Trim Strips

(5) Install R14 retaining strips removed in (3) in their original positions.

5.28 For a back-to-back installation of more than two booths:

- (1) Install booths side-by-side as directed in 5.21.
- (2) Install booths back-to-back as directed in 5.27.

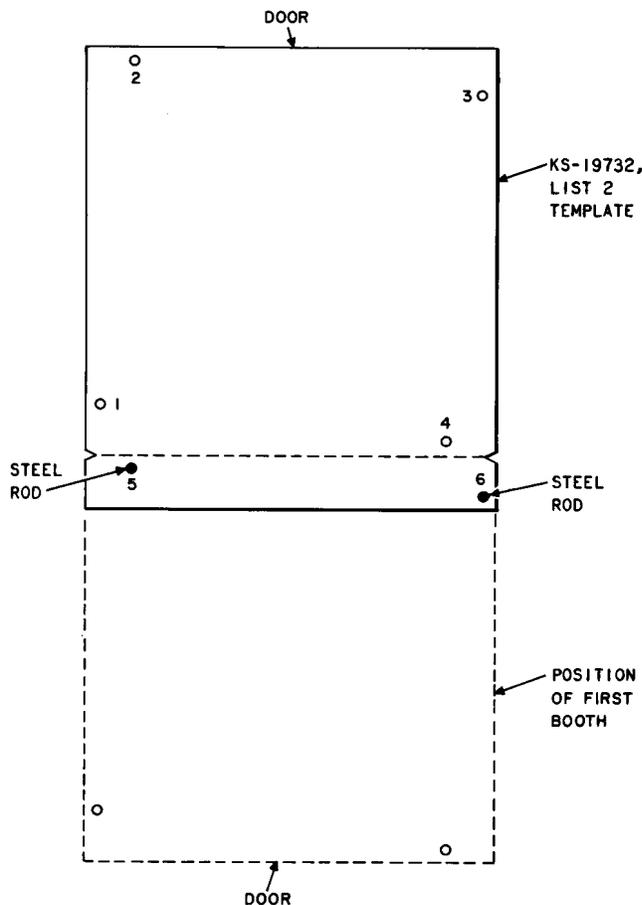


Fig. 18—Back-to-Back Layout for Drilling Mounting Holes

5.29 Repeat 5.10 through 5.15.

ADDING TO AN EXISTING INSTALLATION (SINGLE OR MULTIPLE)

5.30 To extend an existing line-up to the right:

- (1) Perform operations outlined in 5.21 (1).
- (2) Place the new List 21 booth to the right of the existing line-up.



If added booth is equipped with a List 90 floor, omit (3) through (7) and (10).

- (3) Remove and retain the inside kickplates.

- (4) Mark the location for four mounting holes and move the booth aside.
- (5) Drill the four holes to a depth of 1-1/4 inches using a 1/4-inch drill.
- (6) Repeat 5.04.
- (7) Place booth in the mounting position and repeat 5.09.
- (8) Repeat 5.21 (3) through (8).
- (9) Perform operations listed in 5.10, 5.11, 6.02, and 7.02.
- (10) Install inside kickplates retained in (3).
- (11) Install fluorescent lamp and dome assembly (Fig. 10).

5.31 To extend an existing line-up to the left:

Note: The left-hand booth is always a List 1; however, to extend an existing line-up to the left, a List 21 booth must be used. The following procedures provide a means to convert this List 21 booth to a List 1 and the existing left-hand booth to a List 21. If the existing installation is a single booth, it may be desirable to move the List 1 booth to the left and add the List 21 on the right in accordance with 5.30.

- (1) Remove and retain the following items from the previous existing booth (Fig. 15):
 - Seat assembly (See Fig. 1, Division 508, section entitled: KS-19442 Telephone Booth, Maintenance)
 - K6 kickplate
 - T7 trim strip
 - T5 trim strip
 - K3 kickplate
 - R15 retaining strip
 - R3 retaining strip
 - R11 retaining strip

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- R25 retaining strip
- L57 glass panel
- G4 glazing strip

- (2) Place new booth to the left of the existing line-up.



If new booth is equipped with a List 90 floor, omit (3).

- (3) Repeat 5.30 (3) through (7).
- (4) Repeat 5.21 (4).
- (5) Transfer B-651879 rails from the left wall of the new booth to the wall where the glass panel was removed.
- (6) Install all items retained in (1) on the left wall of the new booth (Fig. 15).
- (7) Crimp the top edge of the T5 trim strip approximately every 6 inches using RS-14770 soft face hammer and a center punch (Fig. 17).

Note: K6 will secure T7 sufficiently without crimping T7.

- (8) Repeat 5.21 (8).
- (9) Repeat 5.10, 5.11, 6.02, and 7.02.
- (10) Repeat 5.30 (10) and (11).

5.32 To extend an existing back-to-back installation:

- (1) Refer to 5.28, 5.30, and 5.31.

6. TELEPHONE WIRING

- 6.01 Run the entrance cable or inside wires into the booth from the base or top as follows:

- (a) If the entrance is made from the floor, extend cable to the ceiling area using the channel in the right wall (Fig. 11). Terminate cable at the 42A-type connecting block located in the left rear corner of the ceiling.

Note: In case of multiple arrangements, the 42A-type connecting block supplied may be replaced by a 30A-type to provide necessary terminations.

- (b) If the entrance is made from the top, run the cable through one of the knockouts provided in the roof, either side, rear, or top. Terminate cable at the connecting block located in the left-rear corner of the ceiling.

6.02 In multiple arrangements, run telephone wiring from booth to booth through knockouts in the sides of the roof. Terminate all telephone wiring at the 42A-type connecting block (or 30A-type connecting block if one is present).

7. ELECTRIC WIRING

7.01 Run the power cable into a booth from the base or top as follows:

- (a) If the entrance is made from the floor, extend cable to the ceiling area using the channel in the right wall (Fig. 11). Terminate cable at the electrical receptacle located in the left rear corner of the ceiling.

- (b) If the entrance is made from the top, use KS-19425, List 22 cable assembly (Fig. 3) and run cable through one of the knockouts provided in the roof, either side, rear, or top. Terminate cable at the electrical receptacle located in the left rear corner of the ceiling.

7.02 In multiple arrangements, run KS-19425, List 22 cable or approved permanent wire from booth to booth through knockouts in the side of the roofs. Terminate all electrical wiring at the electrical receptacle located in the left-rear corner of each booth.