

## KS-20255 TELEPHONE KIOSK (DIAMOND KIOSK) IDENTIFICATION, INSTALLATION, AND MAINTENANCE

### 1. GENERAL

1.01 This section is reissued to:

- Revise references

1.02 The telephone kiosk (Fig. 1) is an outdoor diamond shaped steel and glass, doorless phone booth designed for single installation stand-up service. The mounting surface serves as the floor.

1.03 The booth is furnished with light gray colored outside walls and dark gray legs and roof trim. Inside walls consist of perforated stain-finished stainless steel panels.

1.04 It is designed to use a 1A/1C-type coin telephone set (Fig. 2).

### 2. IDENTIFICATION

2.01 The overall dimensions of the kiosk are:

- Height—88 1/3 inches
- Width—46 inches (measured from side corners)
- Depth—41 inches (measured from front to rear corner)

2.02 Each of the two walls consists of a curved steel framework, enclosed on the outside by solid steel panels and, on the inside, by perforated panels.

2.03 These frameworks are mounted on two triangular steel legs which extend up from the mounting surface. Approximately 15 inches of open space exists around the bottom of the booth with the exception of the two legs. Leveling studs are located in these legs.

2.04 A two sectioned curved tempered glass panel forms the entire rear corner between the side walls (Fig. 3). It affords natural booth lighting

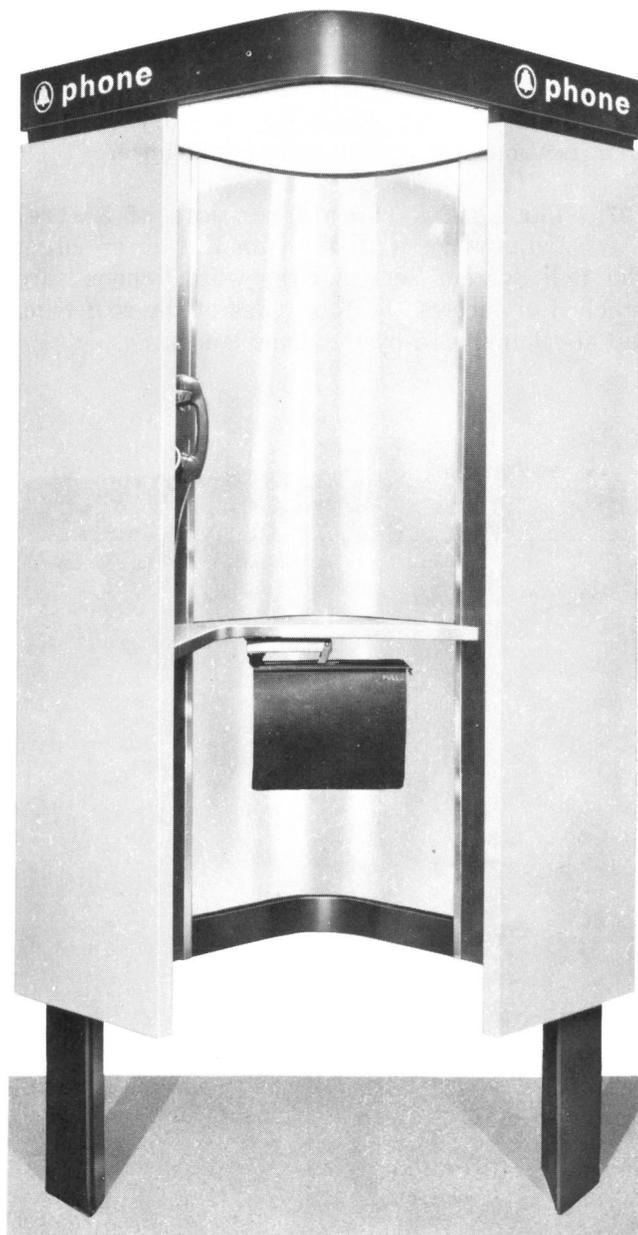


Fig. 1—KS-20255 Telephone Kiosk

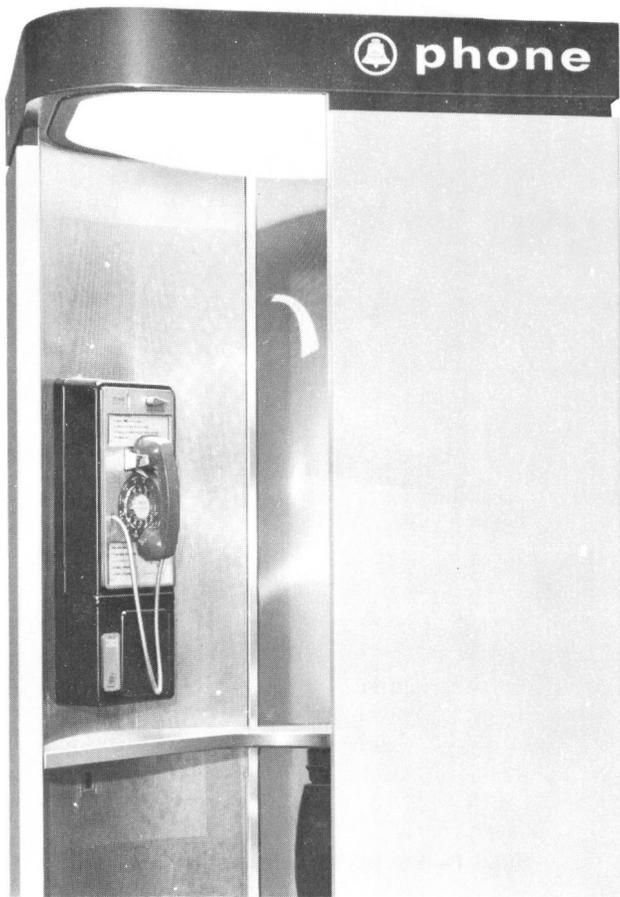
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in the daytime, protection from the weather, and conversational privacy.

**2.05** A stainless steel writing shelf spans the left wall and rear glass panels (Fig. 1).

**2.06** A KS-20030, List 3 directory hanger, capable of accepting directories up to 4 inches thick, is mounted under the shelf (Fig. 4). For detailed information on the directory hanger, refer to Division 508, section entitled: KS-20030 Directory Hangers, Identification, Installation and Maintenance.

**2.07** The roof assembly consists of a steel framework with trim on the outer edge. The Bell System Seal and the word "phone" are punched in each of the four sides of the roof trim, and are illuminated by the dome lamps.



**Fig. 2—Telephone Kiosk with 1A/1C-Type Coin Telephone Set Installed**

**2.08** The top dome is a B-699033 plexiglass light diffuser which is bonded to the roof assembly with an adhesive sealant and secured with 12 B-699032 retaining clips and 12 No. 8-32 by 3/8 truss head screws (Fig. 5).



***Do not remove this diffuser unless it becomes damaged enough to replace.***

**2.09** The ceiling consists of a B-699034 plexiglass light diffuser which is held in place by a B-699087 retainer assembly and four flathead captive screws (Fig. 6).

**2.10** The booth is illuminated by one T12, 36-inch, and two T12, 24-inch high output fluorescent lamps (Fig. 7).

**2.11** A 2-pole, 15-amp circuit breaker (Fig. 8) is located under the shelf in the left wall and is used in conjunction with a KS-19261, List 3 light control assembly. Access for operating the circuit breaker switch is through a small sliding door (Fig. 9) in the perforated panel. The circuit breaker and lamps are prewired for continuous lighting. The KS-19261, List 3 light control must be ordered separately if desired.

**2.12** There is no provision for a booth blower.

**ORDERING INFORMATION**

**2.13** The following is an example of a typical order:

1—Kiosk, Telephone, KS-20255, L1 equipped with:

1—Directory Hanger, KS-20030, L3

1—Mounting Template, KS-20255, L12\*

\* It is not necessary to order a mounting template for each booth. One template can be used for many installations.

**3. INSTALLATION**

**3.01** Booth location should be:

- Within full view of public

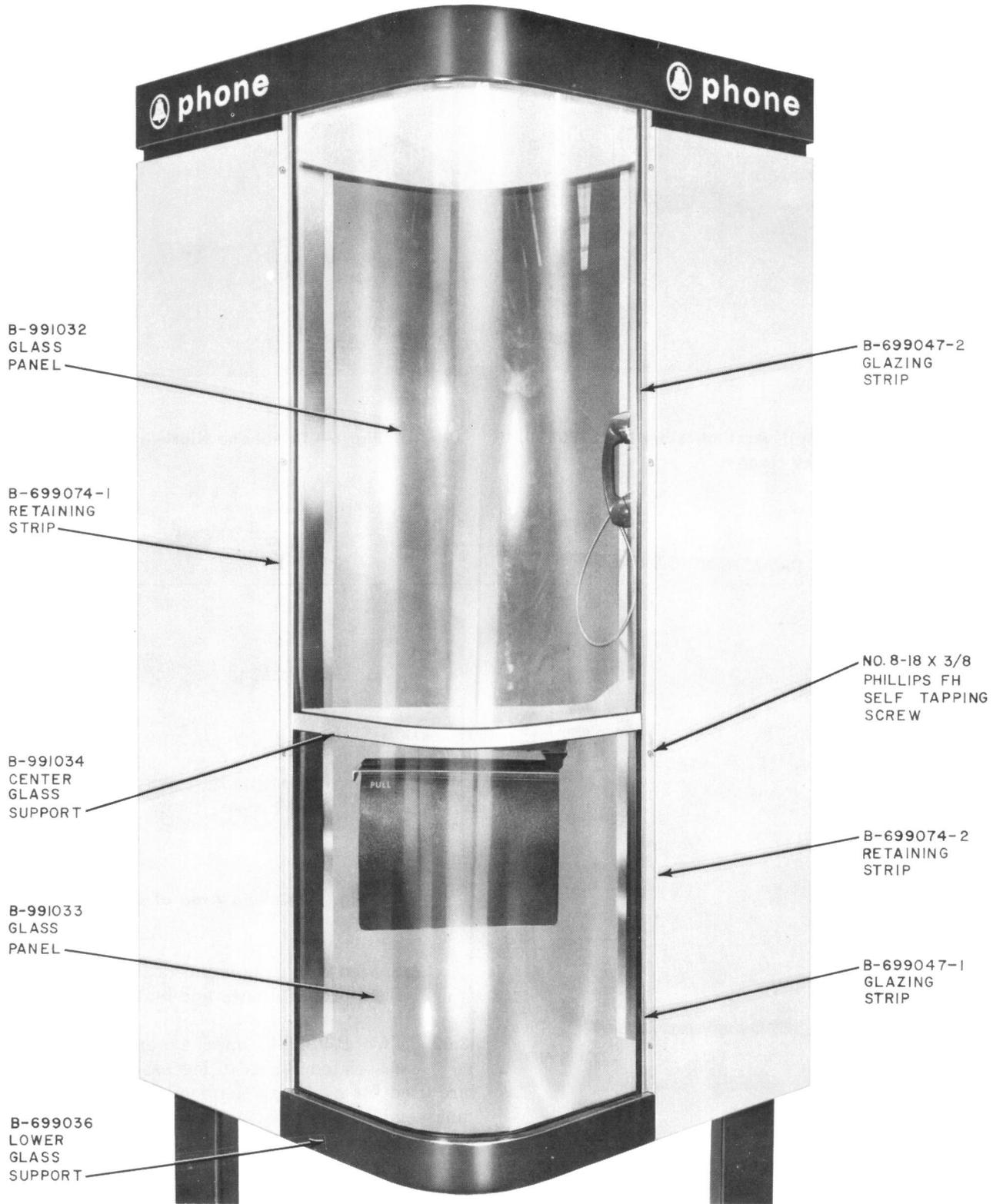


Fig. 3—Telephone Kiosk—Rear View

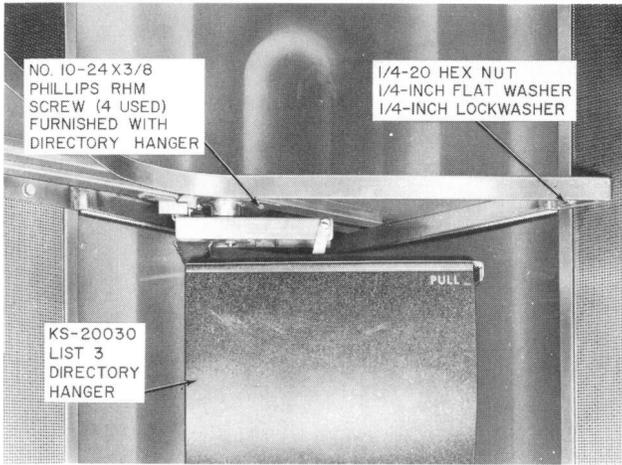


Fig. 4—B-699052 Shelf Assembly with KS-20030, List 3 Directory Hanger

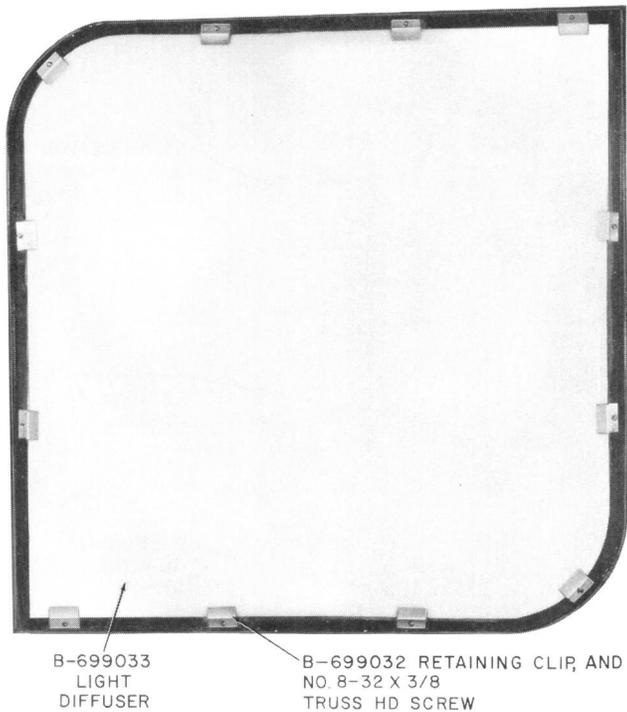


Fig. 5—Telephone Kiosk—Top

- Readily accessible to customer
- Free of such hazards as broken or uneven pavement

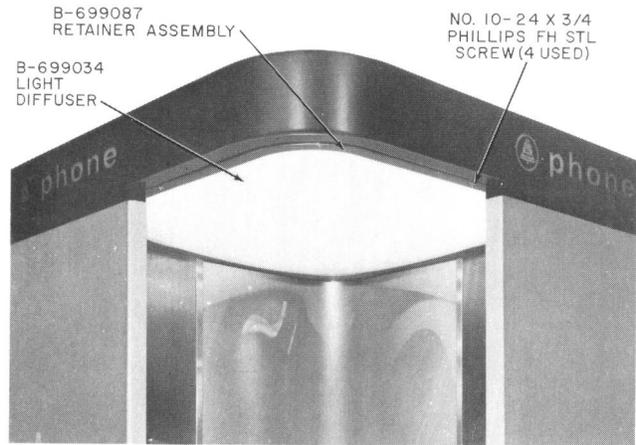


Fig. 6—Telephone Kiosk—Ceiling

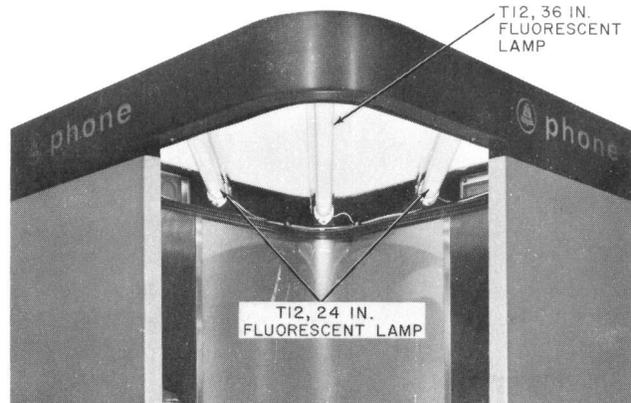
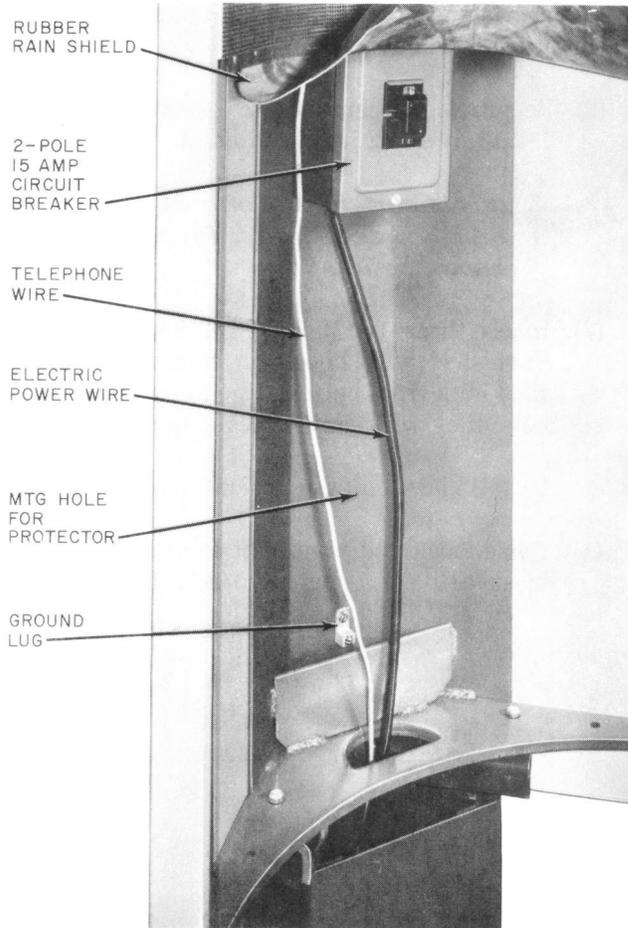


Fig. 7—Ceiling Area of Booth

- Spaced with a minimum clearance of 6 inches from property lines and buildings

**3.02** Two B-992047 base assemblies and two associated B-992046 leg assemblies (Fig. 10) are used for mounting the booth. They are packed unassembled and must be assembled in the field.

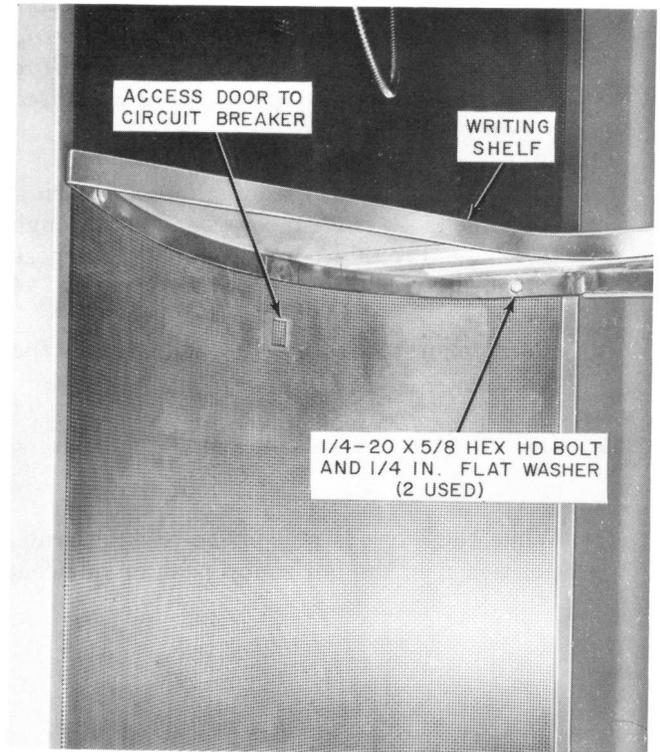
**3.03** The base assemblies shall be embedded in 6 inches of concrete to provide a permanent foundation for the booth. They shall be positioned all the way in the concrete (Fig. 11a) if the concrete surface serves as the kiosk floor; they shall be positioned as shown in Fig. 11b if some additional material (brick, tile, etc.) serves as the kiosk floor.



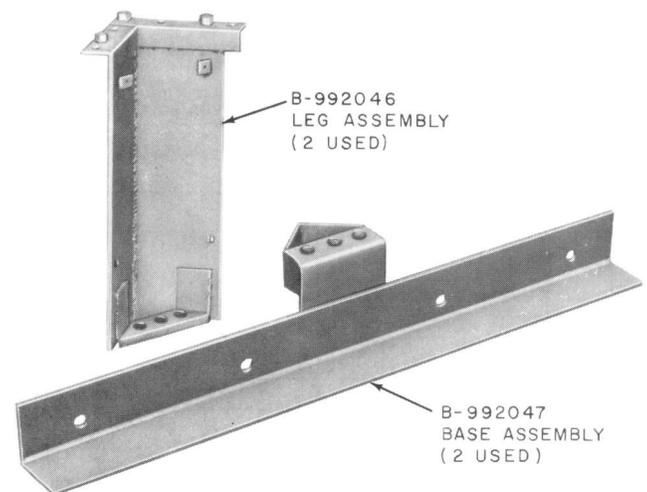
**Fig. 8—Left Bottom of Booth With Panel Removed**

**3.04** Install base assemblies as follows:

- (1) Prepare a form 48 inches square with an inside depth of 12 inches.
- (2) Tamp 6 inches of cinders or gravel in the bottom of the form.
- (3) Position the base assemblies per Fig. 11a or 11b and insert the four steel reinforcement rods (Fig. 12).
- (4) Using four 5/8-11 by 1-1/2 inch bolts, install KS-20255, List 12 mounting template as shown in Fig. 12 to ensure proper alignment. Bolts are furnished with booth.



**Fig. 9—Lower Left Inside Panel**



**Fig. 10—Base Assembly With Associated Leg Assembly**



▶ *The template must be ordered separately; however, a template can be used many times.* ◀

**THINK** *It is very important that the base assemblies are level before pouring concrete. This will reduce leveling problems when the kiosk is mounted on the base.*

- (5) All incoming power and telephone wiring enter the kiosk from underground, up through the left leg. Provide conduit for this purpose before pouring concrete.
- (6) Pour concrete around the base to fill the form.

**3.05** Install leg assemblies on kiosk as follows:

- (1) While the kiosk is still in the packing crate, position it in the horizontal position adjacent

to the base. It may be left on truck if working conditions permit.

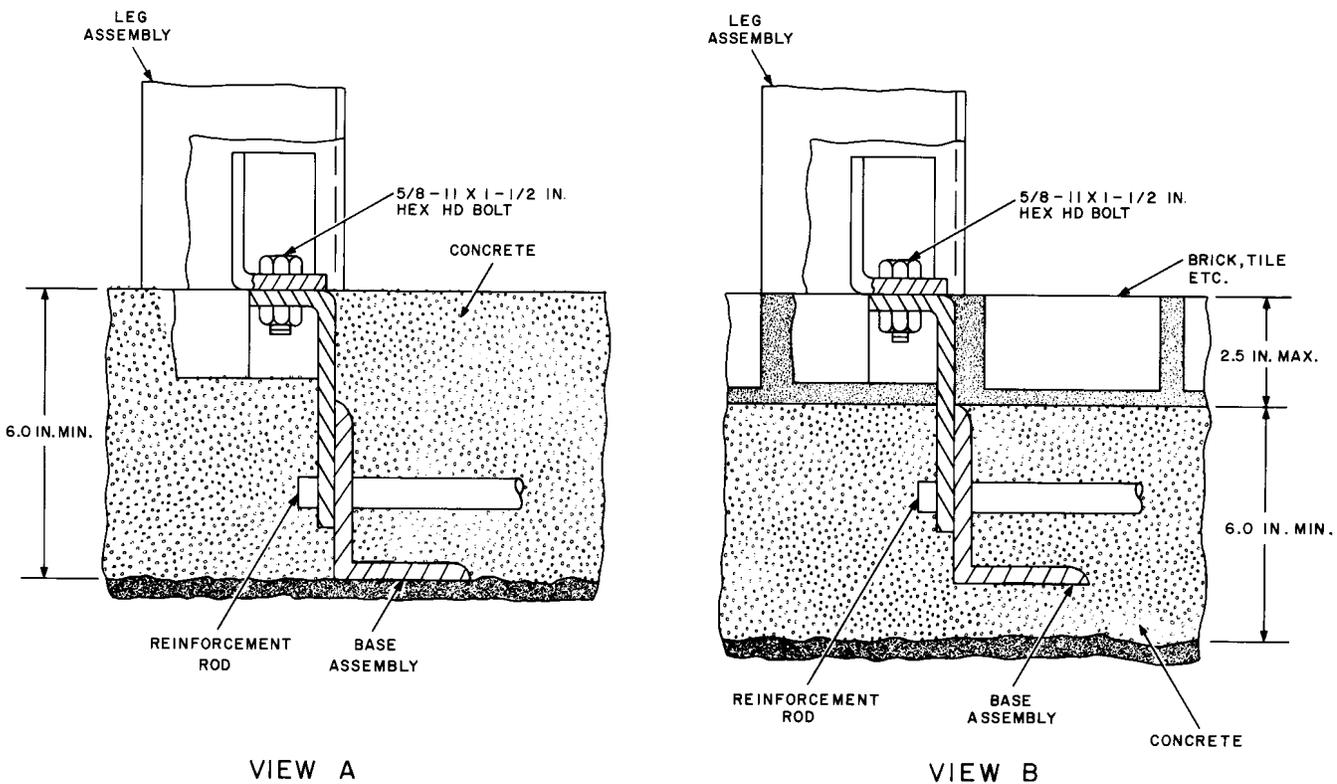
- (2) Secure leg assemblies to kiosk using eight 1/2-13 by 1-1/2 hex head bolts.

**THINK** *It is important that only high strength, SAE grade 5 bolts, furnished with booth, be used.*

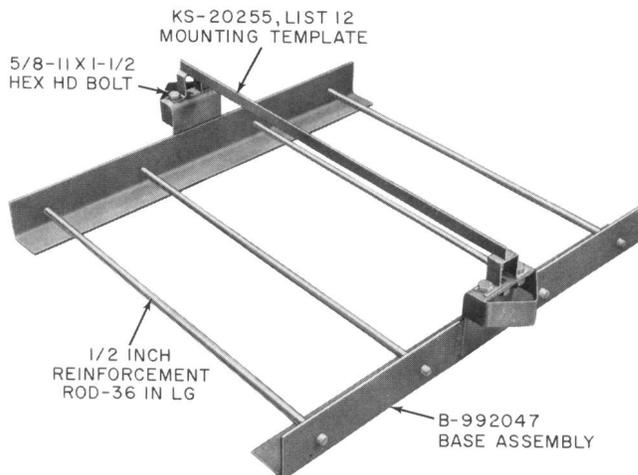
- (3) Insert three 1/2-13 by 1-1/2 hex head bolts (furnished with booth) in each leg through threaded nuts from bottom. Do not tighten these six bolts; they will serve as leveling studs.

**3.06** Install kiosk on base assembly as follows:

- (1) Raise kiosk and position it over base. Secure kiosk to base using six 5/8-11 by 1-1/2 hex



**Fig. 11—Positioning Base Assembly in Concrete**



**Fig 12—Base Assembly with List 12 Mounting Template Installed**

head bolts (Fig. 13) which are furnished with booth. See THINK under 3.05(2). Do not install leg covers at this time.

(2) Loosen the eight bolts installed in 3.05(2) and level the kiosk with the six bolts installed in 3.05(3). When the kiosk is perfectly level, tighten the eight bolts.

(3) Remove all packing material from kiosk.

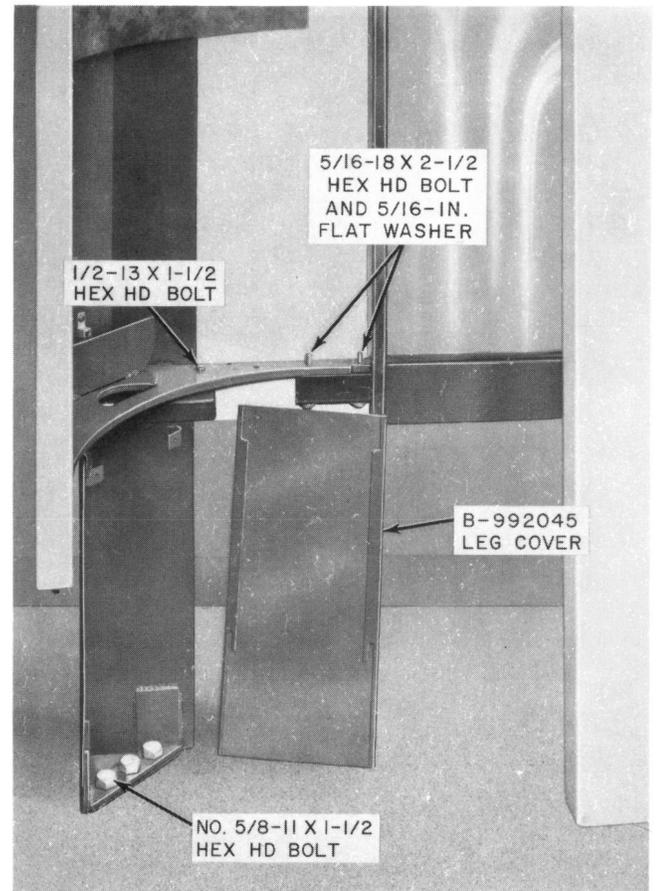
#### WIRING

**3.07** Access to the circuit breaker, ground lug, and mounting holes for the 123A1A protector is obtained by removing the lower left inside wall panel as follows:

- (1) Remove shelf assembly (refer to 4.09).
- (2) Loosen two No. 8-32 by 1/2 Phillips truss head screws (Fig. 14).
- (3) Push latch to right.
- (4) Pull slide angle down and remove panel.

**3.08** Install the 123A1A protector (furnished locally) using the mounting holes provided near the circuit breaker (Fig. 8).

**3.09** Install the coin telephone set. A B-699048 security backboard (Fig. 15) is furnished with



**Fig. 13—Assembly of Booth, Leg Assembly, And Base**

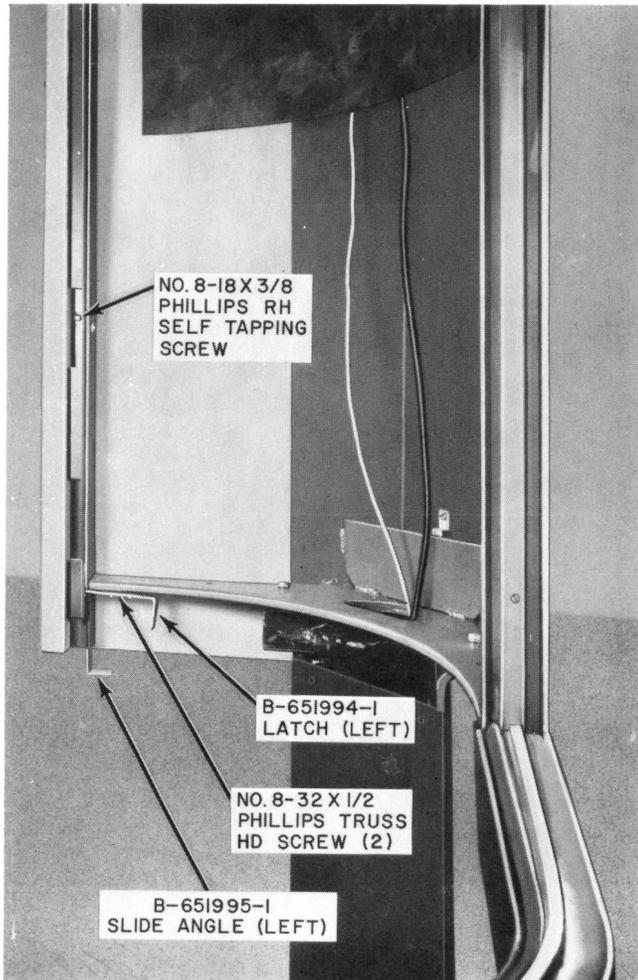
the kiosk. Use two P-40Y061 security studs in the upper holes of the set and two P-12E798 security studs in the lower holes of the set. Studs must be furnished locally.

**3.10** Further secure the set using 7 P-23F790 1/4-20 by 5/8 RHM screws. Screws are furnished with set.

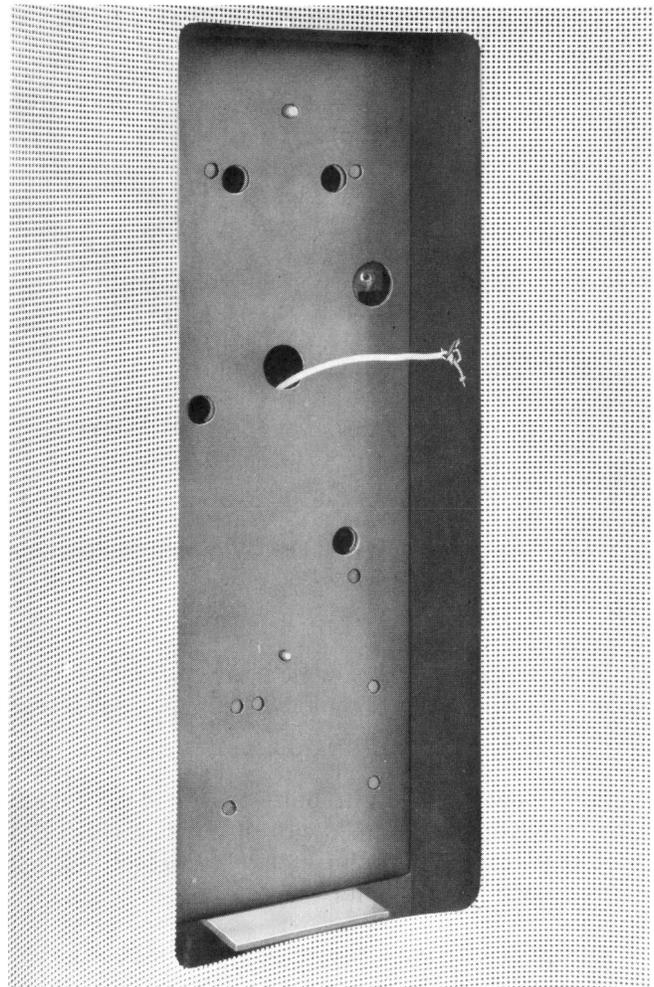
**3.11** Connect the power wires in accordance with Fig. 16.

**3.12** The kiosk is prewired for continuous illumination. If a light control is used, determine that it is working properly by placing hand over light cell. The lamps should illuminate when this is done.

**Note:** One faulty lamp will prevent all lamps from illuminating.



**Fig. 14—Apparatus For Securing Panels**



**Fig. 15—B-699048 Security Backboard**

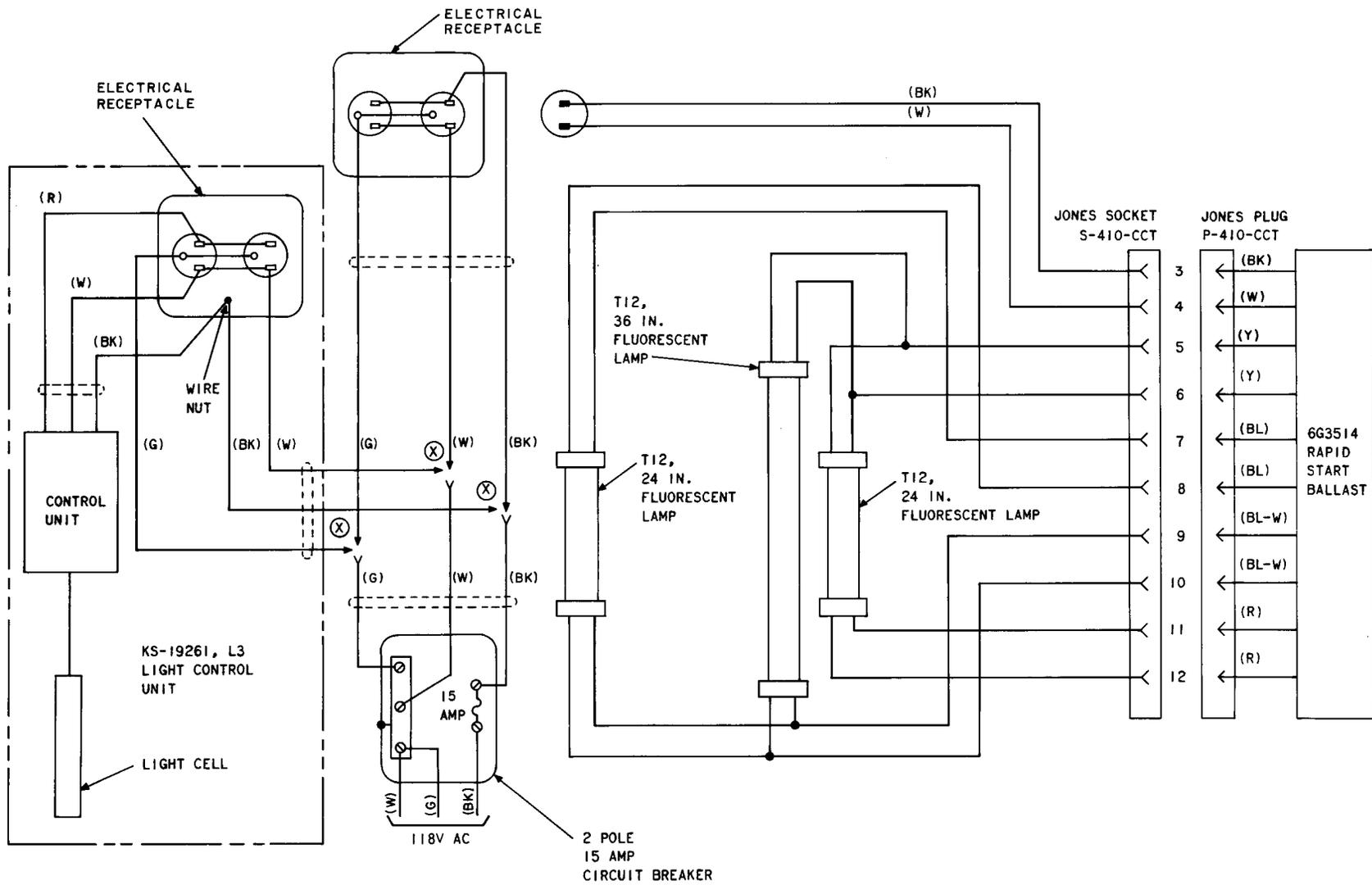
**3.13** Install the leg covers as follows (Fig. 13):

- (1) Place cover on leg and slide it down until slots on cover and tabs on legs are interlocked.
- (2) Secure cover using two No. 8-32 by 1/2 Phillips RHM screws.
- (3) Remove, using reverse procedure.

**3.14** Install the lower left inside wall panel in reverse order from which it was removed (see 3.07) being careful to place the circuit breaker access door at top (Fig. 9).

#### **4. MAINTENANCE**

- 4.01** The local telephone company shall establish appearance standards of all exposed surfaces.
- 4.02** The local telephone company shall establish safety standards for all kiosks.
- 4.03** Inspect the approach to the kiosk and ensure that it is free of all hazards.
- 4.04** Ensure that all visible assembly screws are secure.
- 4.05** Clean the kiosk in accordance with Division 508, section entitled: Booth and Shelf Cleaning.



⊗ OPTIONAL WIRING FOR KS-19261, L3 LIGHT CONTROL UNIT.

Fig. 16—Wiring Diagram of Telephone Kiosk

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**4.06** Replace those parts which are damaged to the point that they do not meet local telephone company standards.

**Note:** Refer to Part 3 for installation procedures. For access to light control assembly, remove inside upper panel.

### CEILING

**4.07** Remove bottom light diffuser by loosening four screws and carefully lowering retainer assembly and diffuser together.

### TOP DOME

**4.08** Remove top light diffuser by removing 12 No. 8-32 by 3/8 truss head machine screws and 12 B-699032 retaining clips (Fig. 5).



*The top diffuser is bonded to the roof assembly by an adhesive. When replacing this diffuser and the adhesive becomes damaged, use **G.E. 108 RTV Clear Silicone Rubber Sealant** or an approved equivalent.*

### SHELF

**4.09** To remove shelf assembly, remove two 1/4-20 by 5/8 hex head bolts one 1/4-20 hex nut, three 1/4-inch flat washers and one 1/4-inch lockwasher (Fig. 4 and 9).

### DIRECTORY HANGER

**4.10** Remove KS-20030, List 3 directory hanger by removing four No. 10-24 by 3/8 Phillips RHM screws and four flat washers (Fig. 4). Refer to Division 508, section entitled: KS-20030 Directory Hangers, Identification, Installation and Maintenance.

### INSIDE PANELS

**4.11** Remove lower left inside panel as directed in 3.07. Install per 3.14).

**4.12** Replace upper left inside panel in the same manner as lower left inside panel (3.07 and 3.14).

**4.13** Replace right inside panel in same manner as left inside panels.

### OUTSIDE PANELS

**4.14** Replace each of the outside panels as follows:

- (a) Remove appropriate inside panel(s).
- (b) Remove the No. 8-18 by 3/8 Phillips RH self-tapping screws (Fig. 14) located along door facing.
- (c) Remove four No. 8-18 by 3/4 Phillips FH self-tapping screws and remove glass retaining strip (Fig. 3).
- (d) Pull panel out at door facing, swing around toward back of booth, and lift off.
- (e) Install, using reverse procedure.

### GLASS PANEL

**4.15** Replace B-991033 glass panel (lower) as follows:

- (a) Loosen four 5/16-18 by 2-1/2 hex head bolts (Fig. 13) which secure lower glass support to frame.
- (b) Remove glass retaining strips as directed in 4.14(c).
- (c) Remove glass and B-699047-1 glazing strip (Fig. 3).
- (d) Install, using reverse procedure.

**4.16** Replace B-991032 glass panel (upper) as follows:

- (a) Remove B-991033 glass panel as directed in 4.15.
- (b) Loosen two No. 8-18 by 3/8 self-tapping screws which secure center glass support.
- (c) Remove glass and B-699047-2 glazing strip (Fig. 3).
- (d) Install, using reverse procedure.

### REPLACEMENT PARTS

**4.17** Table A lists replacement parts that may be ordered as necessary.

**TABLE A**  
**REPLACEMENT PARTS**

NAME	PART NO. OR DESCRIPTION	REMARKS
Ballast, rapid start	G. E. Co. No. 6G-3514	Located behind right-inside panel
Circuit breaker	ITE Circuit Breaker Co. No. P-215, 2-pole, 15 amp	Located behind lower-left inside panel
Cover, leg	B-992045	Front portion
Directory hanger	KS-20030, List 3	
Frame, sign	B-699982	For holding sign in place
Gasket	B-699980	Used with B-699981 sign
Glass panel	B-991032	Upper
	B-991033	Lower
Lamp, fluorescent	24" T12	High output
Lamp, fluorescent	36" T12	High output
Light control	KS-19261, List 3	
Light diffuser	B-699033	Top
Light diffuser	B-699034	Interior
Panel	B-699058	Outside, left side
Panel	B-699059	Outside, right side
Panel	B-699075	Inside, right
Panel	B-699076	Inside, upper left
Panel	B-699077	Inside, lower left
Retainer (12)	B-699032	Secures top light diffuser
Retainer assembly	B-699087	Secures interior diffuser
Retaining strip	B-699074-1	Secures glass panel in right wall
Retaining strip	B-699074-2	Secures glass panel in left wall
Shelf assembly	B-699052	Does not include directory hanger
Sign assembly	B-699981	Includes Bell System emblem plus "P" and "O" islands
Strip, glazing	B-699047-1	For lower glass panel
	B-699047-2	For upper glass panel
Support, glass	B-699036	Bottom
	B-991034	Center