

## KS-20842 SENTRY\* TELEPHONE ENCLOSURE

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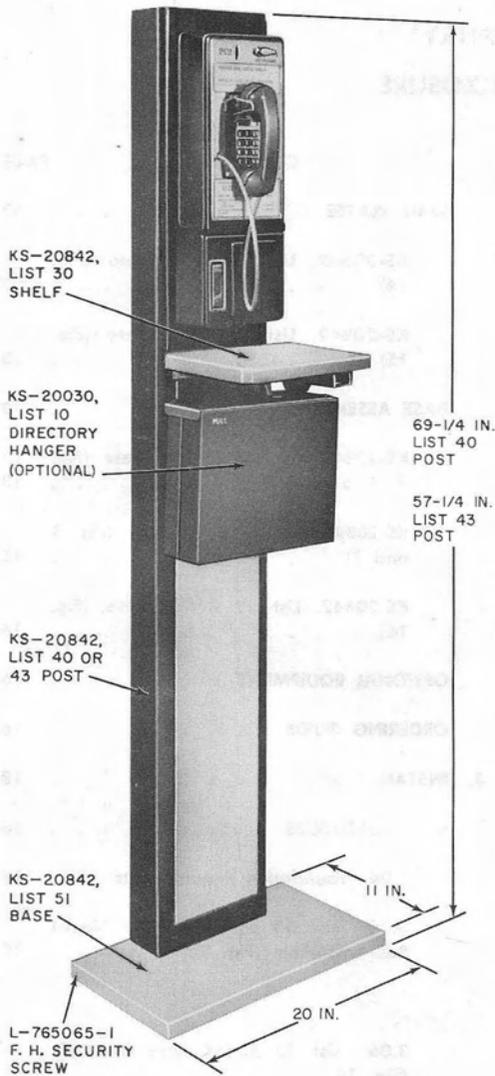


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**1. GENERAL**

**1.01** This section provides identification, installation, and maintenance information on the KS-20842 SENTRY telephone mounting.

**1.02** The section is reissued to revise text, delete information on List 44 wall mounting and List 69 kit, and add information on:

- List 25 Power Cord
- List 35 Housing
- List 35A Housing
- List 45 Backboard
- List 46 Backplate
- List 47 Backplate
- List 74 Kit
- List 78 Hardware Kit

- Lists 80 through 94 Arrangements
- List 95 Kit

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.03** The SENTRY telephone mounting is an indoor-outdoor, vandal-resistant unit, designed to provide security for 1-type coin telephone sets.

**1.04** A variety of enclosures is available and can be provided for walk-up, drive-up, or walk-in service (Fig. 1 through 10).

**1.05** The basic components for a complete installation are:

- Housing or Shelf
- Post or Wall Mounting
- Base Assembly (for use with post mountings)

**1.06** The mounting can be installed in single, back-to-back, or side-by-side arrangements.

**2. IDENTIFICATION**

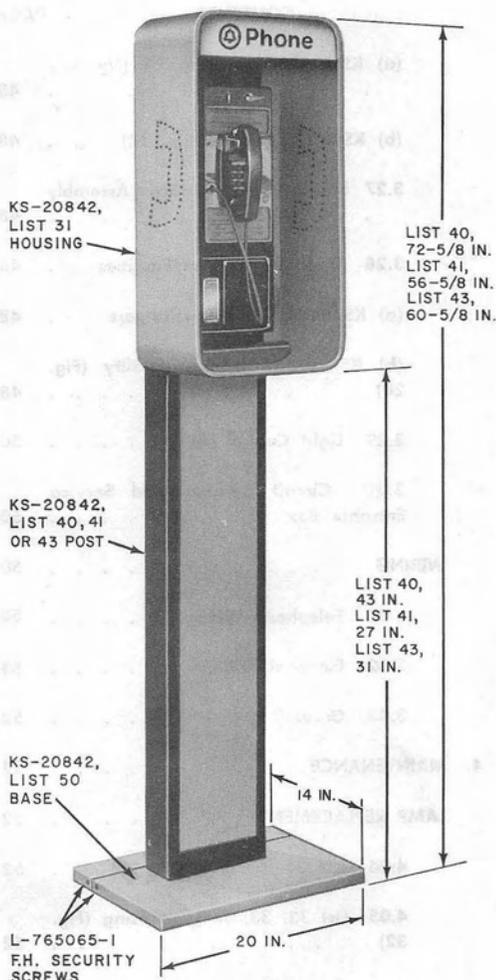
- 2.01** KS-20842 basic list number items are described in Table A.
- 2.02** Accessories that can be used in conjunction with the mounting are described in Table B.
- 2.03** Associated kits are described in Table C.

**KS-20842, List 30 Shelf (Fig. 1)**

**2.04** The List 30 shelf assembly is designed for use with a KS-20842, List 40 walk-up or List 43 universal post, at indoor locations only, where a housing is not required.

**2.05** The stainless steel shelf is approximately 8-3/4 inches wide and 13 inches long.

**2.06** An optional KS-21435, List 3 or KS-20030, List 10 directory hanger can be used with this shelf.



**Fig. 2—List 31 Housing—Post Mounted (List 5, 9, or 23 Arrangement)**

**HOUSING ASSEMBLIES**

**2.07** There are six different type housings available.

**KS-20842, List 31 Housing Assembly (Fig. 2, 3, and 4)**

**2.08** Intended for indoor or outdoor use; walk-up or drive-up service; can be mounted on a post or List 42 wall mounting.



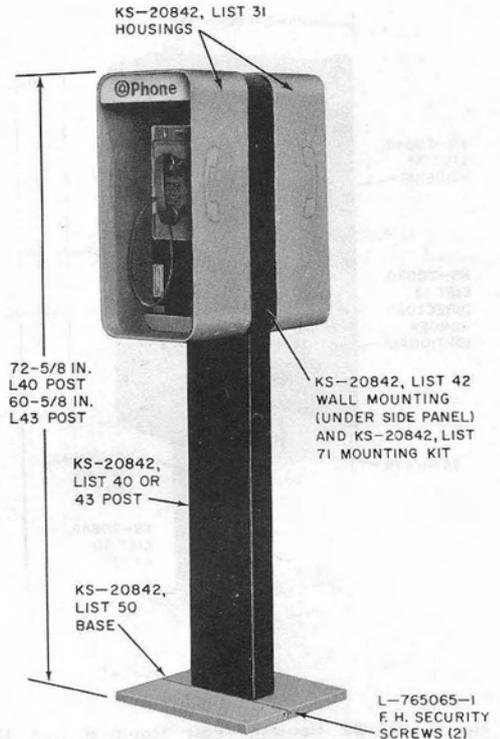
**Fig. 3—List 31 Housing—Wall Mounted (List 4 Arrangement)**

**2.09** Overall dimensions of the List 31 housing are:

- Height—29-5/8 inches
- Width—14-5/8 inches
- Depth—9-9/16 inches
- Thickness of aluminum—1/4-inch

**2.10** A diffuser with the Bell System emblem and word "Phone" encloses two 12-inch, 13 watt, fluorescent lamps in top of housing.

**2.11** An optional KS-21435, List 1 or KS-20030, List 10 directory hanger can be used on this housing; however, hangers are not recommended for drive-up installations.



**Fig. 4—Two List 31 Housings Back-to-Back (List 21 or 38 Arrangement)**

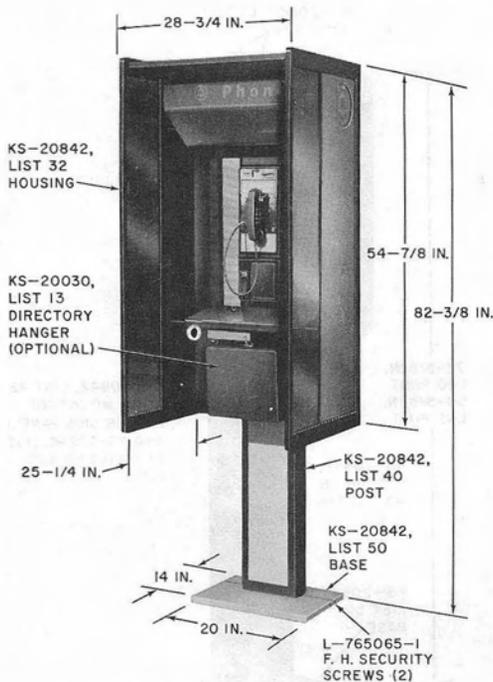
**KS-20842, List 32 Housing Assembly (Fig. 5 and 6)**

**2.12** Intended for indoor or outdoor use; walk-in service; can be mounted on a List 40 post or a List 45 wall mounting. A List 48 filler panel is used with a List 45 wall mounting.

**2.13** Overall dimensions of this housing are:

- Height—54-7/8 inches
- Width—28-3/4 inches
- Depth—25-1/4 inches

**2.14** This housing offers more voice privacy and weather protection than the List 31.



**Fig. 5—List 32 Housing—Post Mounted (List 15 Arrangement)**

**2.15** The List 32 is equipped with a hinged diffuser with the Bell System emblem and the word "Phone" on the front edge. This diffuser covers two 24-inch, 20 watt fluorescent lamps.

**2.16** The interior of the housing is acoustically treated with a perforated aluminum sheet backed by sound absorbent material.

**2.17** The outside of the housing is framed with anodized aluminum extrusions with aluminum panels on the sides and rear.

- Refer to Table D for available finishes.

**2.18** Transparent, tempered glass panels, approximately 10 inches wide, span the sides of the housing.

**2.19** A sloped stainless steel writing shelf is located below the coin telephone set.



**Fig. 6—List 32 Housing—Wall Mounted (List 12 Arrangement)**

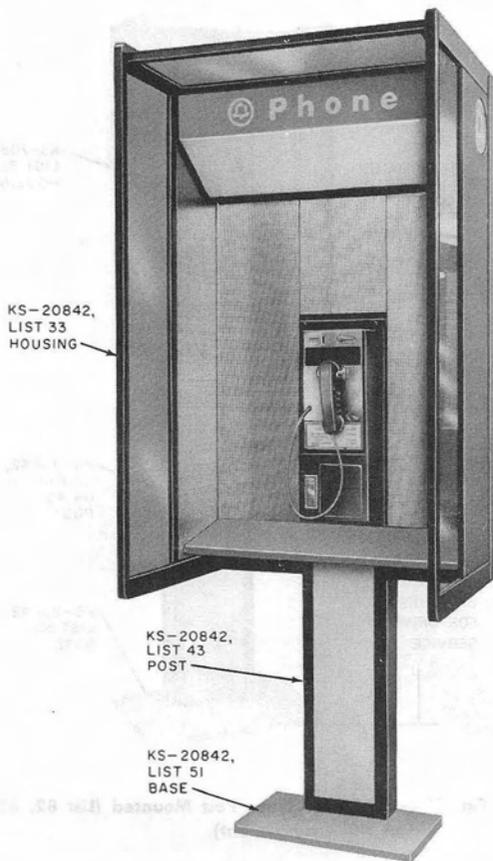
**2.20** An optional KS-21435, List 2 or a KS-20030, List 11 directory hanger can be used with this housing.

**KS-20842, List 33 Housing Assembly (Fig. 7)**

**2.21** Intended to accommodate both wheelchair and able bodied persons; can be mounted on a List 43 post or a List 45 wall mounting.

**2.22** Overall dimensions of the List 33 housing are:

- Height—54-7/8 inches
- Width—31-3/4 inches

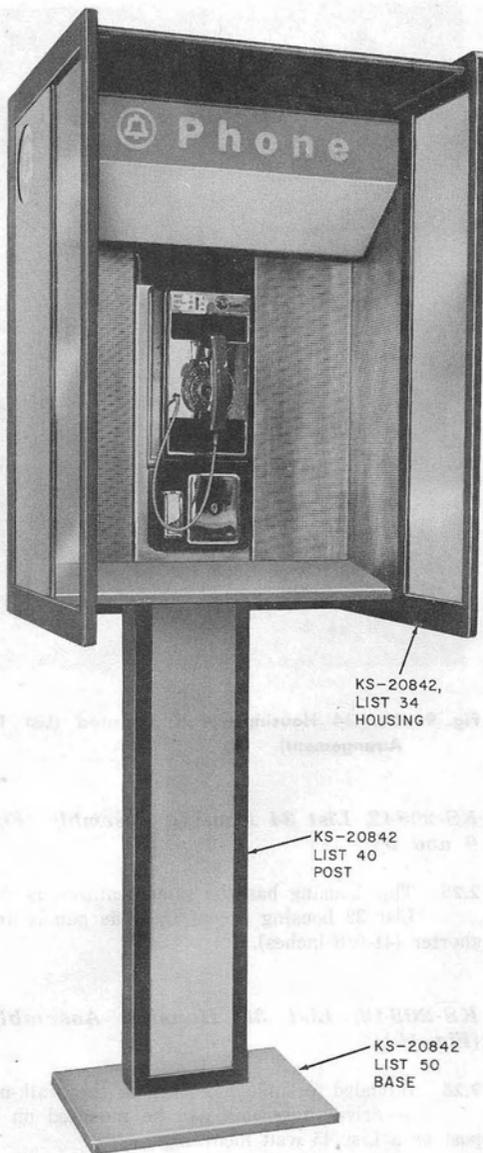


**Fig. 7—List 33 Universal Housing—Post Mounted (List 19 Arrangement)**

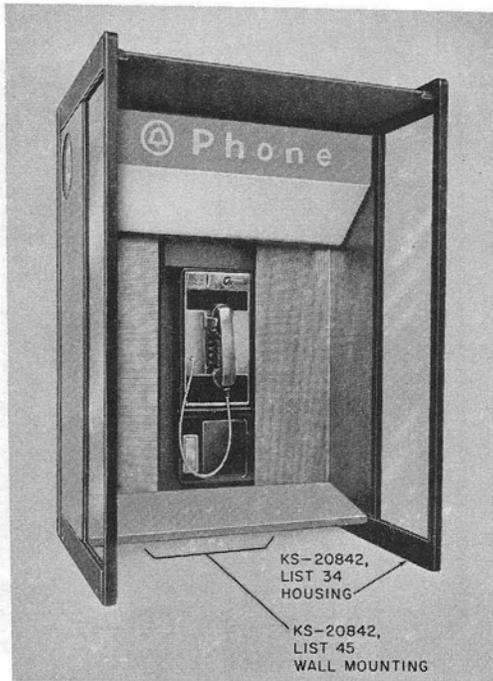
- Depth—25-1/4 inches

**2.23** The coin slot height for this facility is 54 inches from the floor.

**2.24** Other features of this housing are the same as the List 32 housing (2.15 through 2.20), except a removable panel is located above the coin telephone set.



**Fig. 8—List 34 Housing—Post Mounted (List 26 Arrangement)**



**Fig. 9—List 34 Housing—Wall Mounted (List 14 Arrangement)**

**KS-20842, List 34 Housing Assembly (Fig. 8 and 9)**

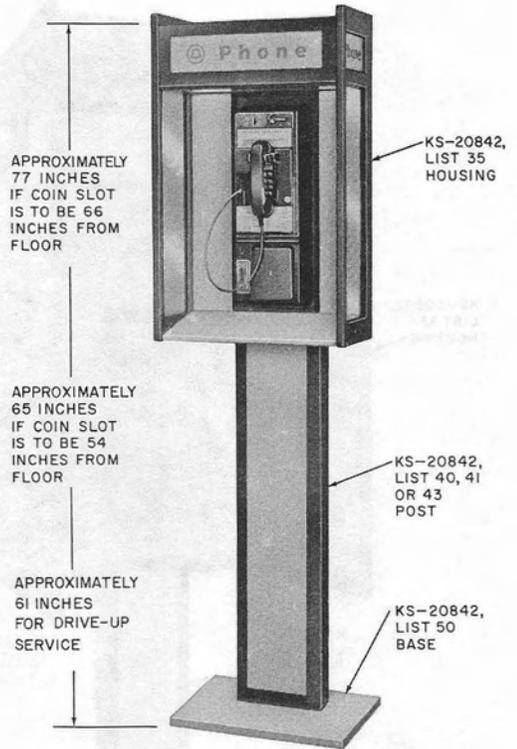
2.25 This housing has the same features as the List 32 housing except the side panels are shorter (41-5/8 inches).

**KS-20842, List 35 Housing Assembly (Fig. 10)**

2.26 Intended for indoor or outdoor use; walk-up or drive-up service, can be mounted on a post or a List 45 wall mounting.

2.27 Overall dimensions of the List 35 housing are:

- Height—34-3/8 inches
- Width—21-1/4 inches



**Fig. 10—List 35 Housing—Post Mounted (List 82, 85, or 90 Arrangement)**

- Depth—11 inches

2.28 The List 35 housing is an intermediate size enclosure, compared to the Lists 31 and 32, and includes the following features:

- Full width brushed stainless steel writing shelf
- Black anodized or clear aluminum frame
- Transparent, tempered glass side panels
- Signs on four sides—blue graphics on a white background—illuminated by the dome light fixture
- Lighted by two 14 watt flourscent lamps

TABLE A

## BASIC KS-20842 COMPONENTS

KS-20842 LIST NO.	NAME	FIG. NO.	REMARKS
30	Shelf Assembly	1	Used indoors on L40 or 43 post where no enclosure is provided
31	Housing	2, 3, and 4	Used on L42 wall mounting or L40, 41, or 43 post; Walk-up or Drive-up; Indoors or outdoors; Single or Back-to-Back
32		5 and 6	Used on L45 wall mounting or L40 post, Walk-in service; Long side panels; Indoors or outdoors; Single or multiple
33		7	Used on L45 wall mounting or L43 post; Indoors or outdoors; For wheelchair or able bodied persons; Single or multiple
34		8 and 9	Used on L45 wall mounting or L40 post; Walk-in service; Short side panels; Indoors or outdoors; Single or multiple
35		10	Used on L45 wall mounting or L40, 41, or 43 post; Walk-up or Drive-up; Indoors or outdoors; Single or Back-to-Back
40	Post Assembly	1, 4, 5, and 8	For Walk-up or Walk-in service
41		2	For Drive-up service
42	Wall Mounting	3, 4, and 11	Backboard for mounting L31 housing on wall or Back-to-Back on L40 or 43 post
43	Post Assembly	7	For 54-inch coin slot height
45	Wall Mounting	9 and 12	Backboard for mounting L32, 33, 34, 35, or 35A housing on wall
46	Wall Plate	14	For use with L45 wall mounting for added strength
47		15	For use with L45 wall mounting on walls where studs are spaced 16-inches apart
50	Base Assembly	2, 4, 5 and 8	Regular
51		1 and 7	Short
52		16	Buried

- Removable light diffuser
- Weight is 55 pounds and can be installed by one person
- Will accept KS-20030, List 11, 12, or 13 or a KS-21435, List 2 directory facilities
- Can be installed singly, back-to-back, or side-by-side multiple.

**KS-20842, List 35A Housing Assembly**

**2.29** The List 35A housing is similar to the List 35; the difference being that the overall height is 4 inches higher, including a slanted roof and glass panels with handset symbols.

**POSTS**

**2.30** There are three different posts available.

**TABLE B**  
**ASSOCIATED OPTIONAL EQUIPMENT**

NAME	NUMBER	FIG. OR BSP REFERENCE	USE WITH	REMARKS
Mast Assembly	KS-20842, L70 (clear finish)	Fig. 17	L40, L41, or L43 Post Assembly	90 inches long
	KS-20842, L70B (black finish)			
	KS-20842, L76 (clear finish)	Fig. 18		12 inches long
	KS-20842, L76B (black finish)			
	KS-20842, L77 (clear finish)	Fig. 18		12 inches long
	KS-20842, L77B (black finish)			
Cover Assembly	KS-20842, L75	Fig. 19	L31 Housing	To make a coin station temporarily inoperative
Illuminated Sign	KS-20135, L3	Fig. 17	L70 or L76 Mast	Double-sided sign -- clear housing; white graphics on blue background
	KS-20135, L3B			Double-sided sign -- black housing; white graphics on blue background
	KS-20135, L13	Fig. 17		Double-sided sign -- clear housing; blue graphics on white background
	KS-20135, L13B			Double-sided sign -- black housing; blue graphics on white background
	KS-20031, L1	Fig. 18 and Section 508-810-202		L76, L76B, L77, or L77B mast
Directory Facility	KS-21435, L1	Fig. 20	L31 Housing	Single 3-inch Binder
	KS-21435, L2	Similar to Fig. 20	L32, L33, L34 or L35 Housings	
	KS-21435, L3		L30 Shelf	

TABLE B (Cont)

## ASSOCIATED OPTIONAL EQUIPMENT

NAME	NUMBER	FIG. OR BSP REFERENCE	USE WITH	REMARKS	
Directory Hangers	KS-20030	L10	L30 Shelf or L31 Housing	Single binder, open ends, 4-inches thick, clockwise rotation.	
		L11	Section 508-710-102	Single binder, closed ends, 4-inches thick, counterclockwise rotation	
		L12		L32, L33, L34, or L35 Housing	Two single binders, closed ends, counterclockwise rotation
		L13		Single binder, closed ends, 4-inches thick, clockwise rotation	
Light Control	KS-19261, L4	Section 508-825-100	Any outside installation	Light sensitive cell with corresponding control unit	
Light Control Kit	KS-19261, L10		KS-19261, L4 Light Control	A 10-ft cord with piggy-back plug jack — used where two or more post are involved	
Circuit Breakers	Heinemann No. 0912, 120V, 15 amp, time delay curve No. 3	Fig. 21	L40, L41, or L43 Post Assembly and L45 Wall Mounting	For controlling electrical power	
Circuit Breaker Box	KS-19426, L17			Houses the circuit breaker	
Power Cord	KS-20842, L25	Fig. 22	All post and all wall mountings	For bringing power into top of post or wall mounting from a wall mounted electrical receptacle	
	KS-20842, L79		KS-20842, List 3 sign and KS-20842, Lists 70 and 76 mast	For bringing power into lighted sign when used with a mast	

**KS-20842, List 40 Post (Fig. 1, 4, 5, and 8)**

**2.31** Overall dimensions of the List 40 post are

- Length—68 inches
- Width—10 inches

- Depth—4 inches

- Thickness of the steel—3/16-inch

**2.32** The post is finished in a black textured vinyl. It weighs 110 pounds.

TABLE C  
ASSOCIATED KITS

KS-20842 LIST NO.	NAME	FIG. NO.	REMARKS
71	Kit	31	Used to join two List 31 Housings Back-to-Back
72	Kit	43	Used to install KS-20031, List 1 sign on a L70, L76, or L77 Mast
73	Kit	33	Used to join two List 32, List 33, or List 34 walk-in housings together Side-by-Side
74	Kit	39	Used to join two List 35 housings together Side-by-Side
78	Kit		Hardware required to install List 50 and List 51 surface mounted bases to a masonry surface consists of: <ul style="list-style-type: none"> <li>• 6 – 1/2-inch Hilti HDI Drop-in anchor No. 5490024 or equivalent</li> <li>• 6 – 1/2-13 by 1-1/4 hex hd. machine bolt, SAE grade 5</li> <li>• 6 – 17/32-inch flat washers</li> </ul>
95	Kit		Used to join two List 35 housings together back-to-back

**2.33** Either the List 30 shelf, or List 31, 32, 34, 35, or 35A housing can be installed on this post for walk-up or walk-in service.

**2.34** A recessed area in the upper part of the post provides facilities for mounting any 1-type coin telephone set. The area limits access to the lip of the set's front cover.

**2.35** Entrance holes for power and telephone wiring are provided at top and bottom of post for overhead or underground entrance.

**2.36** The lower portion of the post houses an electrical outlet, a circuit breaker, a protector, and light control unit, if applicable.

**2.37** An aluminum panel with spring-loaded pins encloses the lower cavity and an aluminum cap fits over top of post.

**2.38** Holes are provided in the bottom of the post for attaching it to a List 50, 51, or 52 base assembly.

***KS-20842, List 41 Post (Fig. 2)***

**2.39** Overall dimensions of the List 41 post are:

- Length—52 inches

- Width—10 inches

- Depth—4 inches

- Thickness of the steel—3/16-inch

**2.40** The post is finished in a black textured vinyl. It weighs 90 pounds.

**2.41** The List 31 or 35 housing can be installed on this post for drive-up service.

**2.42** Other features of this post are same as the List 40 post (2.34 through 2.38).

***KS-20842, List 43 Post (Fig. 7)***

**2.43** Overall dimensions of the List 43 post are:

- Length—56-1/4 inches

- Width—10 inches

- Depth—4 inches

- Thickness of the steel—3/16-inch

**2.44** The post is finished in a black textured vinyl. It weighs 95 pounds.

- 2.45 The List 43 Post is designed to support the List 30 shelf, List 31, 33, 35, or 35A housing.
- 2.46 Other features of this post are same as the List 40 post (2.34 through 2.38).

#### WALL MOUNTINGS

- 2.47 Two different wall mountings are available.

#### *KS-20842, List 42 Wall Mounting (Fig. 3, 4, and 11)*

- 2.48 Overall dimensions of the List 42 mounting are:
- Length—29-3/8 inches
  - Width—14-5/8 inches
  - Depth—4 inches
- 2.49 The mounting is aluminum finished in black textured vinyl paint. It weighs 15 pounds.
- 2.50 The List 42 mounting is designed to hold a List 31 housing on a wall or on a back-to-back post installation.
- 2.51 A recessed area is provided for mounting any 1-type coin telephone set.
- 2.52 Entrance holes for power and telephone wiring are provided at top and bottom.
- 2.53 A bottom cavity allows use of a protector and electrical outlet.

#### *KS-20842, List 45 Wall Mounting (Fig. 9 and 12)*

- 2.54 Overall dimensions of the List 45 mounting are:
- Length—26-3/4 inches
  - Width—10 inches
  - Depth—4 inches
- 2.55 The mounting is aluminum, finished in black textured vinyl paint.

- 2.56 The List 45 mounting is designed to hold a List 32, 33, 34, 35, or 35A housing on a wall or on a back-to-back post installation. When using it with a List 32 housing, a List 48 filler panel (Fig. 13) is required.

- 2.57 This mounting can be used with or without a List 46 or 47 wall plate.

- 2.58 Other features of this mounting are the same as the List 42 mounting (2.51 through 2.53).

#### WALL PLATES

- 2.59 Wall plates are designed for use with wall mountings to give them additional support on dry walls. Two are available.

#### *KS-20842, List 46 Wall Plate (Fig. 14)*

- 2.60 The List 46 wall plate is designed for use with the List 45 wall mounting when mounting a List 35 housing.

#### *KS-20842, List 47 Wall Plate (Fig. 15)*

- 2.61 The List 47 wall plate is designed for use with the List 45 wall mounting when mounting a List 32, 33, or 34 housing.

#### BASE ASSEMBLIES

- 2.62 There are three base assemblies available; a regular surface mount base, a short surface mount base, and a buried base.

#### *KS-20842, List 50 Regular Base (Fig. 2, 4, 5, and 8)*

- 2.63 Overall dimensions of the List 50 base are:
- Length—20 inches
  - Width—14 inches
  - Thickness—7/8-inch
- 2.64 The base weighs approximately 70 pounds.
- 2.65 Mounting holes are provided for securing the base to a flat mounting surface.
- Ten holes in early version

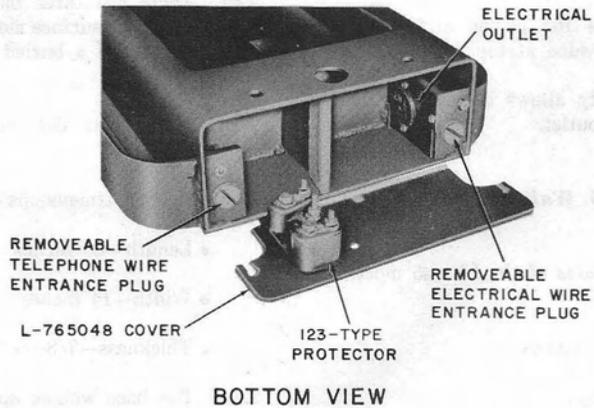
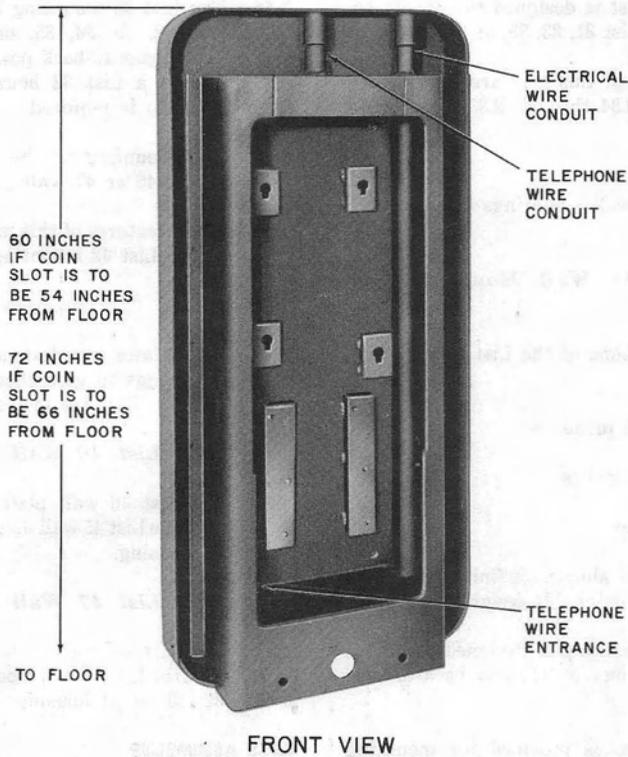


Fig. 11—KS-20842, List 42 Wall Mounting

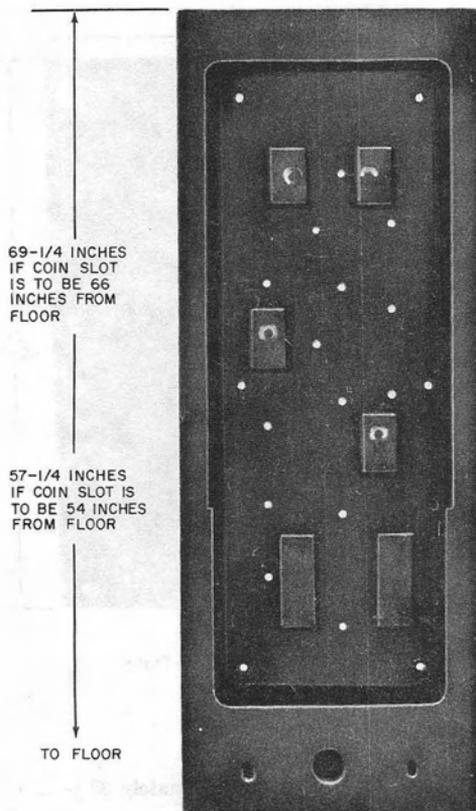


Fig. 12—List 45 Wall Mounting

- Five holes in current version.

2.66 Two aluminum covers hide the mounting hardware and provide a finished appearance.

2.67 The List 50 base is intended for use with posts installed as free standing units away from any vertical surfaces.

**KS-20842, List 51 Short Base (Fig. 1 and 7)**

2.68 Overall dimensions of the List 51 base are:

- Length—20 inches



Fig. 13—List 48 Filler Panel

- Width—11 inches

- Thickness—7/8-inch

2.69 The base weighs approximately 55 pounds.

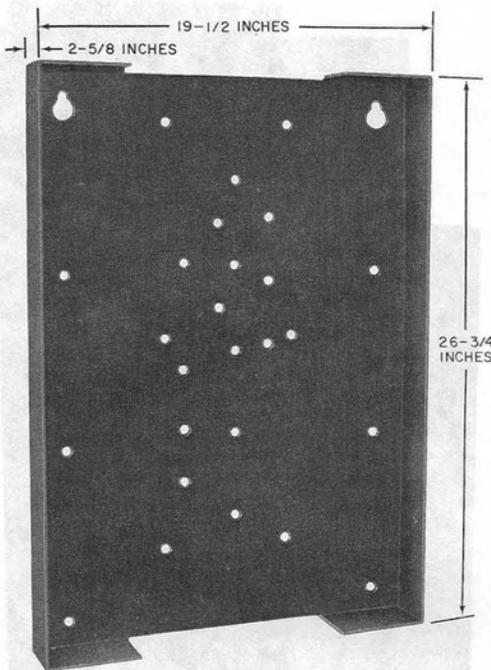


Fig. 14—List 46 Wall Plate

2.70 Mounting holes are provided for securing the base to a flat mounting surface.

- Eight holes in early version
- Five holes in current version.

2.71 One aluminum cover hides the mounting hardware and provides a finished appearance.

2.72 The List 51 base is intended for use with back-to-back post, or post mounted against a vertical surface.

**KS-20842, List 52 Buried Base (Fig. 16)**

2.73 Overall dimensions of the List 52 base are:

- Length—10 inches
- Width—4 inches

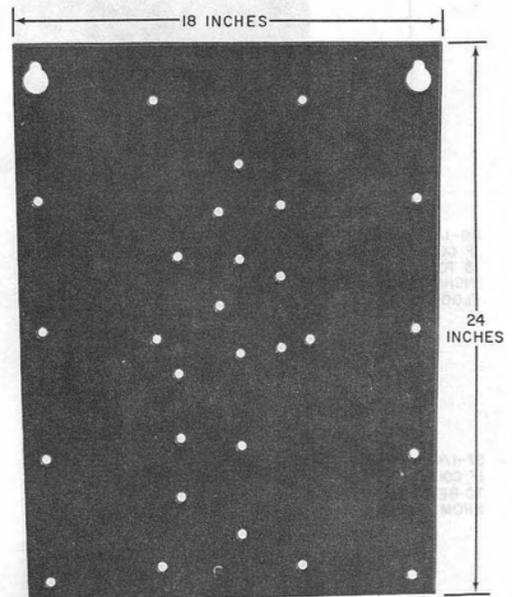


Fig. 15—List 47 Wall Plate

- Height—24 inches

2.74 The base weighs approximately 32 pounds.

2.75 Four holes are provided for inserting four reinforcement rods (furnished locally).

2.76 This base does not require a cover.

2.77 The List 52 base is intended to be used with any of the posts at an installation where a proper mounting surface is not provided.

**OPTIONAL EQUIPMENT**

2.78 Refer to Table B.

**ORDERING GUIDE (See Tables A, B, C, and D)**

2.79 Orders for the mounting shall specify the quantity, KS-number, list number, finish number, and any optional item required.

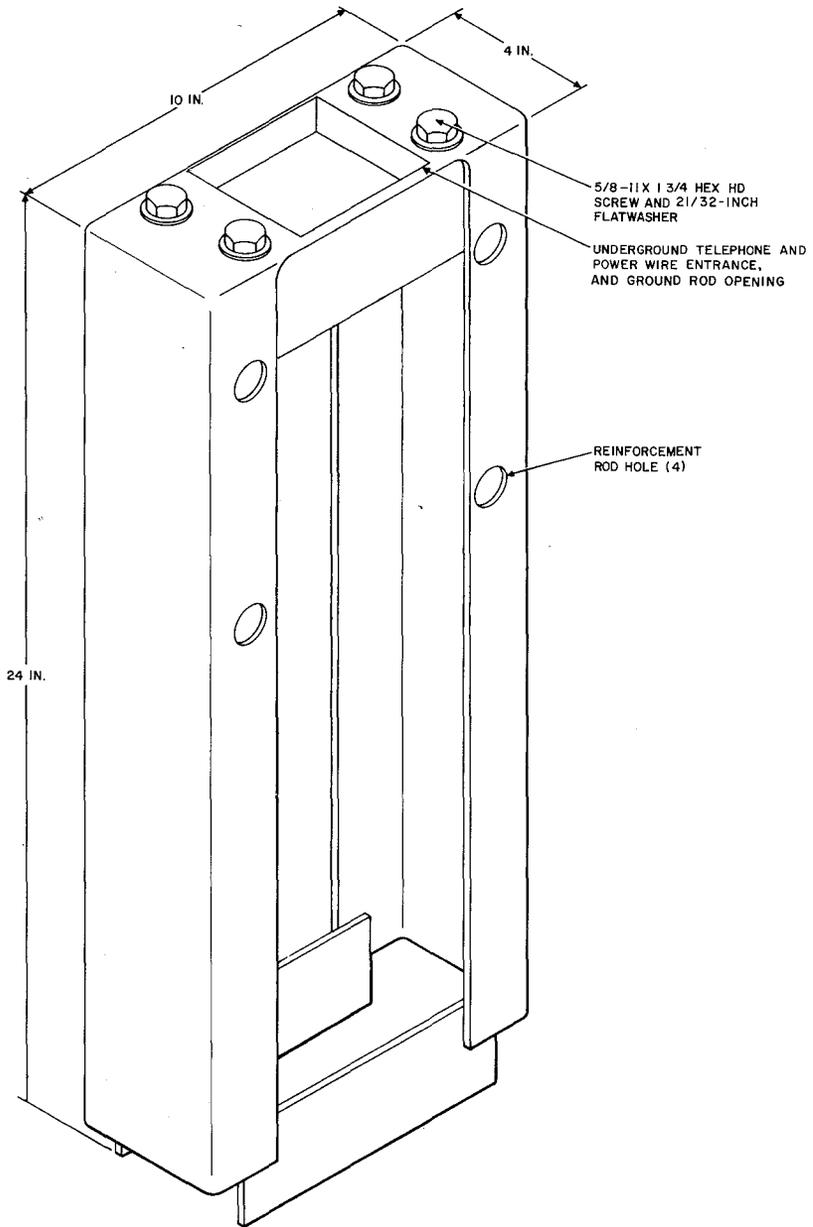


Fig. 16—List 52 Buried Base

**Example 1:**

One single indoor or outdoor walk-up free standing pedestal-mounted unit, with List 31 housing, and clear aluminum finish would be ordered as follows:

- 1—Mounting, Telephone, KS-20842, List 5

**Example 2:**

One single, indoor or outdoor walk-in free standing pedestal mounted unit, with List 32 housing, blue finish, mast, sign, and a service entrance box would be ordered as follows:

- 1—Mounting, Telephone, KS-20842, List 15 with List 64 Finish
- 1—Mast, KS-20842, List 70
- 1—Box, Circuit Breaker, KS-19426, List 17
- 1—Sign, KS-20135, List 3

**3. INSTALLATION****3.01 Location of telephone should be:**

- Readily accessible, well lighted, and in full view of public.
- Free of such hazards as broken or uneven pavements or surfaces.
- Clear of wall switches, outlets, fuse boxes, vents, etc.
- In sufficient location and adequate space to permit access for maintenance purposes.
- In areas free of potential hazards (such as explosives).

**3.02** These telephone mountings may be installed on concrete or wood surfaces with the use of appropriate base assemblies; or on a wall with the use of an appropriate wall mounting.

**3.03** Various list numbers have been assigned to combinations of other list numbers to facilitate installation procedures. Refer to Table D for these listings.



**Fig. 17—List 5 Telephone Mounting With List 70 Mast and KS-20135, List 13 Sign**

**BASE ASSEMBLIES****3.04 Foundation Requirements:**

- (a) Ensure that all requirements set forth by local regulations are met.

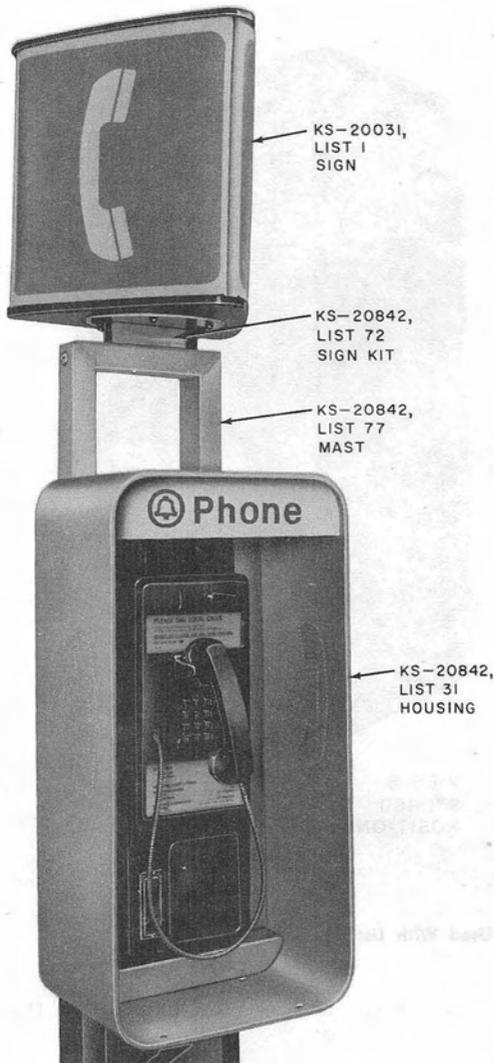


Fig. 18—List 31 Housing—Post Mounted With List 77 Mast and KS-20031, List 1 Illuminated Sign

(b) **Existing Masonry Surfaces:**



**Before installing a surface mount base on an existing surface, determine if the foundation is adequate as follows:**

- (1) Surfaces shall be in good condition showing no visible evidence of deterioration such as spalling or cracking.
- (2) The minimum dimensions for a walk-up installation without a mast (either List 30 shelf or List 31 housing) is 4 inches thick and 40 inches square. This includes existing booth pads. All other equipment arrangements should conform to Fig. 23 or 24.

**Note:** On existing booth pads the post should be centered on the pad.

(c) **New Masonry Surfaces:**

- (1) It is recommended that all new concrete foundations utilize a List 52 buried base assembly where possible (Fig. 16 and 24).
- (2) If it is not practical to use a buried base, prepare a surface mount foundation using Fig. 23 as a guide. If required, install conduit for underground wiring and a ground rod before pouring concrete.

- (d) **Wooden Surfaces**—Should be a minimum of 2 inches thick.

**3.05 List 50 or 51 Surface Mount Base Assembly (Fig. 25)**

- (a) Using a KS-19192, List 1 wrench, remove the flathead security screws and base cover(s).
- (b) Place the base in the exact position of installation. Refer to Fig. 25 for orientation.
- (c) Ensure that underground power and telephone wire entrance conduit, if applicable, are located properly to enter opening in base.
- (d) Using the base as a template, mark the locations for the mounting holes.

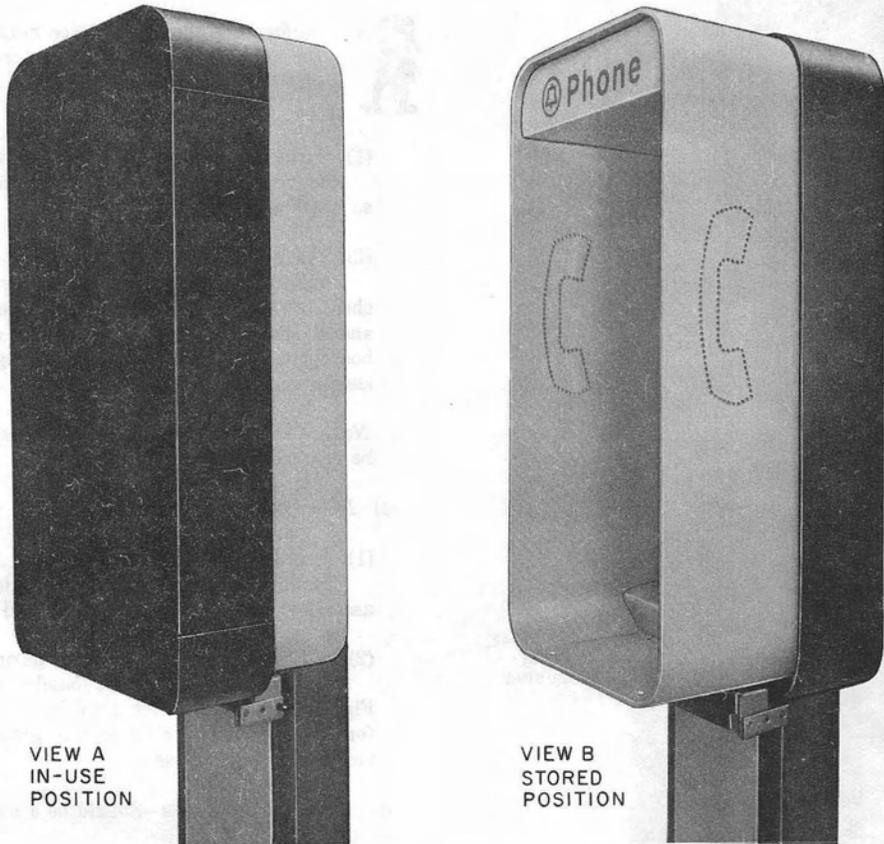


Fig. 19—List 75 Cover Assembly As Used With List 31 Housing

(e) Remove base from drilling area.



*Use eye protection while drilling.*

(f) **Masonry Surfaces:**

- (1) Use the drop-in anchors from KS-20842, List 78 installation kit (Table C).
- (2) Drill 5/8-inch holes to accept these anchors. Holes should be approximately 2 inches deep so the anchor is flush or slightly underflush.

(3) Secure the base using hardware in the List 78 kit.



*The baseplate must be level to ensure proper operation of the coin telephone set. Use shimming washers as necessary to level base.*

(g) **Wooden Surfaces:**

- (1) Use 5/8 by 3-inch hex head lag bolts.
- (2) Drill 1/2-inch lead holes 2 inches deep.

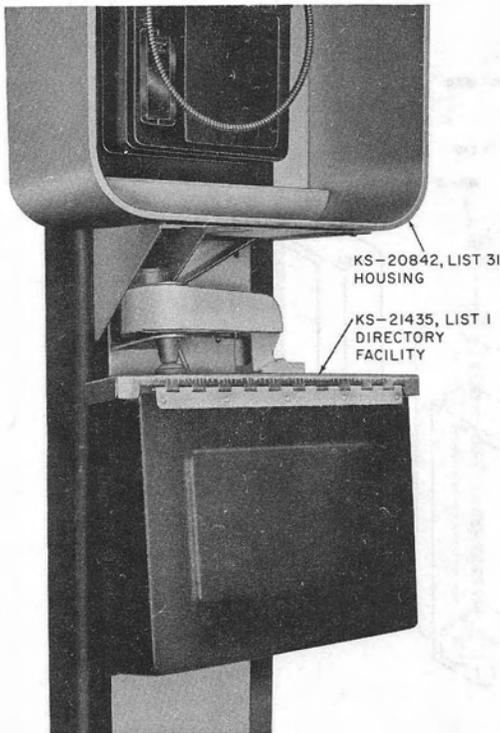


Fig. 20—List 31 Housing—Post Mounted With KS-21435, List 1 Directory Facility

- (3) Secure the base using the lag bolts.



*This baseplate must be level to ensure proper operation of the coin telephone set. Use shimming washers as necessary to level base.*

### 3.06 List 52 Buried Base Assembly (Fig. 16):

- (a) Prepare a form as follows:
- (1) Excavate soil to the dimensions shown in Fig. 24.

**Note:** If soil is too soft, it may be necessary to build forms.

- (b) Position the List 52 base in the correct position.

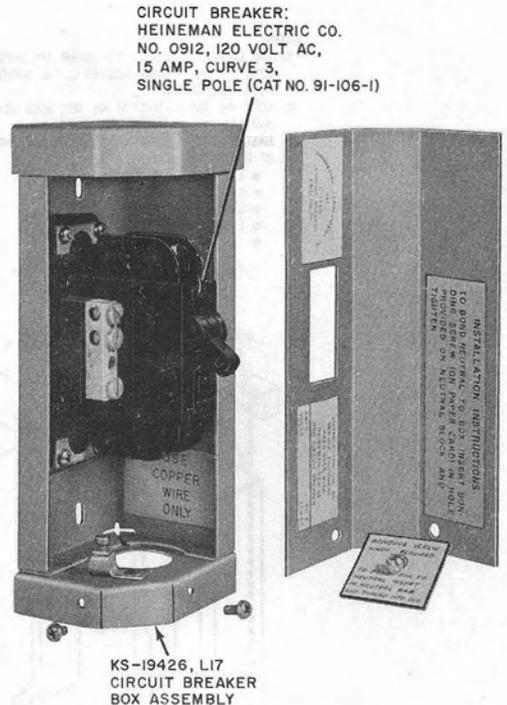


Fig. 21—Circuit Breaker Box With Circuit Breaker Installed

**Note 1:** Correct position is with the two hex head bolts spaced 5-5/8 inches center-to-center located on the front side and the two hex head bolts spaced 6-1/4 inches center-to-center located on the rear.

**Note 2:** Make sure that top of base will be flush with top of concrete.

**Note 3:** Do not remove the four hex head bolts from base before concrete is poured.

- (c) Insert four 3/4-inch by 30-inch steel reinforcement rods through the base.
- (d) If underground power and telephone wires are to be used, provide conduit for this purpose before pouring concrete.

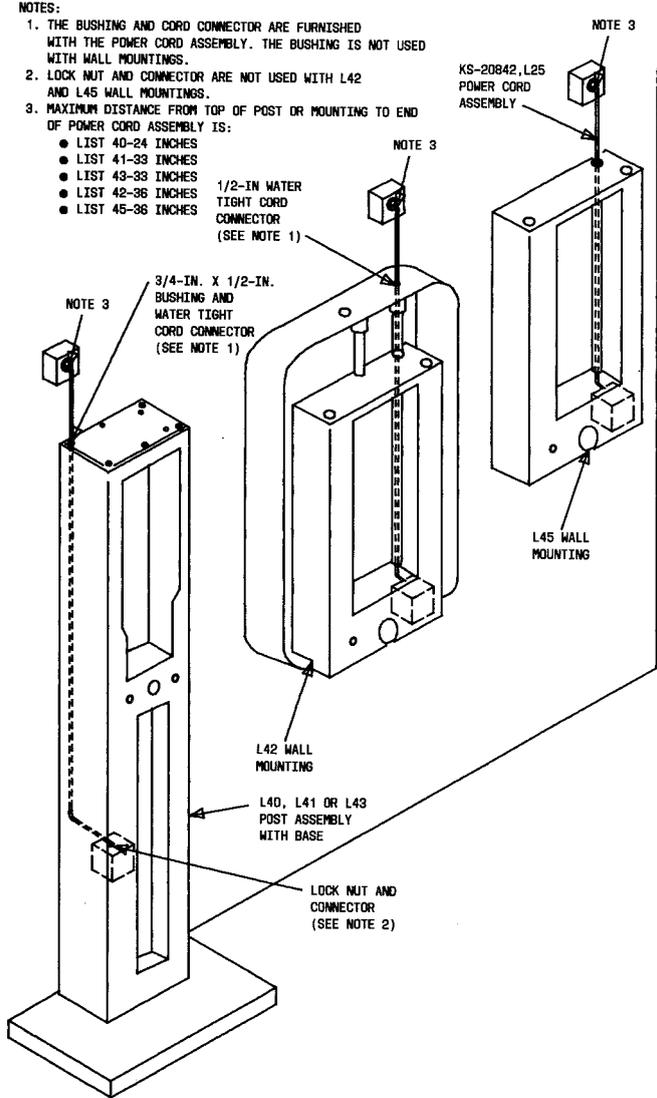


Fig. 22—List 25 Power Cord in Post and Wall Mountings

**TABLE D**  
**INSTALLATION ARRANGEMENTS**

ARRANGEMENT LIST	TYPE INSTALLATION	COMBINATIONS			HOUSING* FINISH	PARAGRAPH REFERENCE
1	Walk-up Indoor for 66-in. Coin Slot Height	List 30 Shelf	List 40 Post	List 50 Base	List 60	3.05, 3.07, and 3.12
2				List 51 Base		
4	Wall Mounting Walk-up or Drive-up	List 31 Housing	List 42 Wall Mounting	List 40 Post	List 60 or List 67	3.10 and 3.14
5	Walk-up Indoor or Outdoor for 66-in. Coin Slot Height					List 50 Base
6			List 51 Base	3.06, 3.07, and 3.13		
7			List 52 Base			
9	Drive-up Indoor or Outdoor		List 41 Post	List 50 Base		3.05, 3.08 and 3.13
10				List 51 Base		
11				List 52 Base		
12	Wall Mounting Walk-in		List 32 Housing	List 45 Wall Mounting		List 48 Filler Panel
13		List 33 Housing	3.11 and 3.18			
14		List 34 Housing	List 64 or List 67		3.11 and 3.20	

(e) When required install ground rod before pouring concrete, leaving 4 to 5 inches above top of base. Refer to Fig. 26 to determine if ground rod is required.

(f) Verify that top of base is level and pour the concrete to fill the form.

#### POST ASSEMBLIES

##### 3.07 List 40 Post Assembly:

(a) Using a KS-19192, List 1 wrench, remove the two FH security screws from the front panel. Remove panel as follows (Fig. 27).

TABLE D (Cont)

## INSTALLATION ARRANGEMENTS

ARRANGE- MENT LIST NO.	TYPE INSTALLATION	COMBINATIONS			HOUSING* FINISH	PARAGRAPH REFERENCE
15	Walk-in Indoor or Outdoor for 66-in. Coin Slot Height	List 32 Housing	List 40 Post	List 50 Base	List 64, List 65, List 67, or List 68	3.05, 3.07 and 3.16
16				List 51 Base		
17				List 52 Base		
18	Indoor or Outdoor for 54-in. Coin Slot Height	List 33 Housing	List 43 Post	List 50 Base	List 64, List 65, List 67, or List 68	3.05, 3.09 and 3.18
19				List 51 Base		
20				List 52 Base		
21	Walk-up Back-to-Back for 66-in. Coin Slot Height	Two List 31 Housings and One List 71 Mounting Kit	One List 40 Post and One List 42 Wall Mounting	List 50 Base	List 60 or List 67	3.05 and 3.15
22				List 52 Base		3.06 and 3.15
23	Walk-up Indoor or Outdoor for 54-in. Coin Slot Height	List 31 Housing	List 43 Post	List 50 Base		List 60 or List 67
24				List 51 Base		
26	Walk-in Indoor or Outdoor for 66-in Coin Slot Height	List 34 Housing	List 40 Post	List 50 Base	List 64 or List 67	
27				List 51 Base		
28				List 52 Base		3.06, 3.07, and 3.20
29	Walk-up, Indoor or Outdoor for 54-in. Coin Slot Height	List 31 Housing	List 43 Post	List 52 Base	List 60 or List 67	3.06, 3.09, and 3.13
36		List 30 Shelf		List 50 Base	List 60	3.05, 3.09, and 3.12
37				List 51 Base		

TABLE D (Cont)

## INSTALLATION ARRANGEMENTS

ARRANGE- MENT LIST NO.	TYPE INSTALLATION	COMBINATIONS			HOUSING* FINISH	PARAGRAPH REFERENCE	
38	Walk-up, Indoor or Outdoor Back-to-Back for 54-in. Coin Slot Height	Two List 31 Housings and One List 71 Mounting Kit	List 43 Post and List 42 Wall Mount- ing	List 50 Base	List 60 or List 67	3.05, 3.09, and 3.15	
39				List 52 Base		3.06, 3.09, and 3.15	
80	Wall Mounting Walk-up or Drive-up	List 35 or 35A Housing	List 45 Wall Mounting and List 46 Wall Plate		List 60 or List 61	3.11 and 3.22	
81							List 45 Wall Mounting
82	Walk-up Indoor or Outdoor for 66-in. Coin Slot Height		List 40 Post			List 50 Base	3.05, 3.07 and 3.22
83						List 51 Base	
84						List 52 Base	
85	Drive-up Indoor or Outdoor		List 41 Post			List 50 Base	3.05, 3.08, and 3.22
86						List 51 Base	
87						List 52 Base	
88	Walk-up, Indoor or Outdoor, Back-to-Back for 66-in. Coin Slot Height		Two List 35 or 35A Housings and One List 95 Mounting Kit	List 40 Post and List 45 Wall Mounting		List 50 Base	3.05, 3.07, and 3.24
89						List 52 Base	
90	Walk-up, Indoor or Outdoor for 54-in. Coin Slot Height	List 35 or 35A Housing	List 43 Post	List 50 Base	3.05, 3.09, and 3.22		
91				List 51 Base			
92				List 52 Base		3.06, 3.09, and 3.22	

TABLE D (Cont)

INSTALLATION ARRANGEMENTS

ARRANGE- MENT LIST NO.	TYPE INSTALLATION	COMBINATIONS			HOUSING* FINISH	PARAGRAPH REFERENCE
93	Walk-up, Indoor or Outdoor Back-to-Back for 54-in. Coin Slot Height	Two List 35 or 35A Housings	List 43 Post and List 45 Wall Mount- ing	List 50 Base	List 60 or List 61	3.05, 3.09, and 3.24
94				List 52 Base		3.06, 3.09, and 3.24

\* List numbers assigned to housing finishes are as follows:

- List 60 — Clear
- List 61 — Black
- List 64 — Blue panels and black frame
- List 65 — Blue panels and clear frame
- List 67 — Bronze panels and black frame
- List 68 — Bronze panels and clear frame

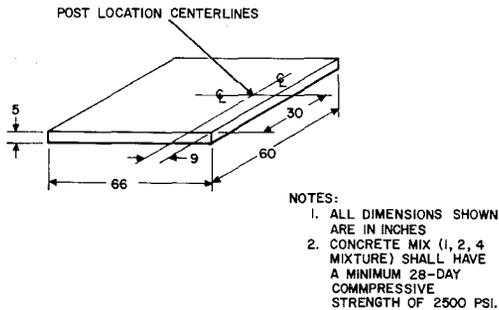


Fig. 23—Concrete Foundation Requirements For Surface Mount Bases

- (1) Brace knee against right side of post, as viewed from front.
- (2) Place both hands on opposite side of panel.
- (3) Pull top and bottom of panel simultaneously toward right side of post.

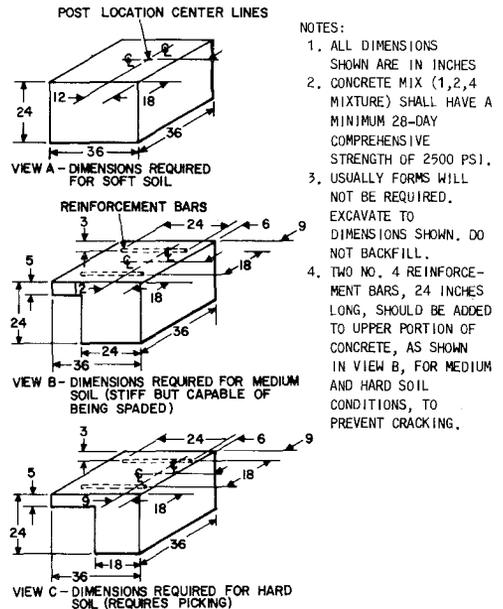


Fig. 24—Concrete Foundation Requirements For List 52 Buried Base

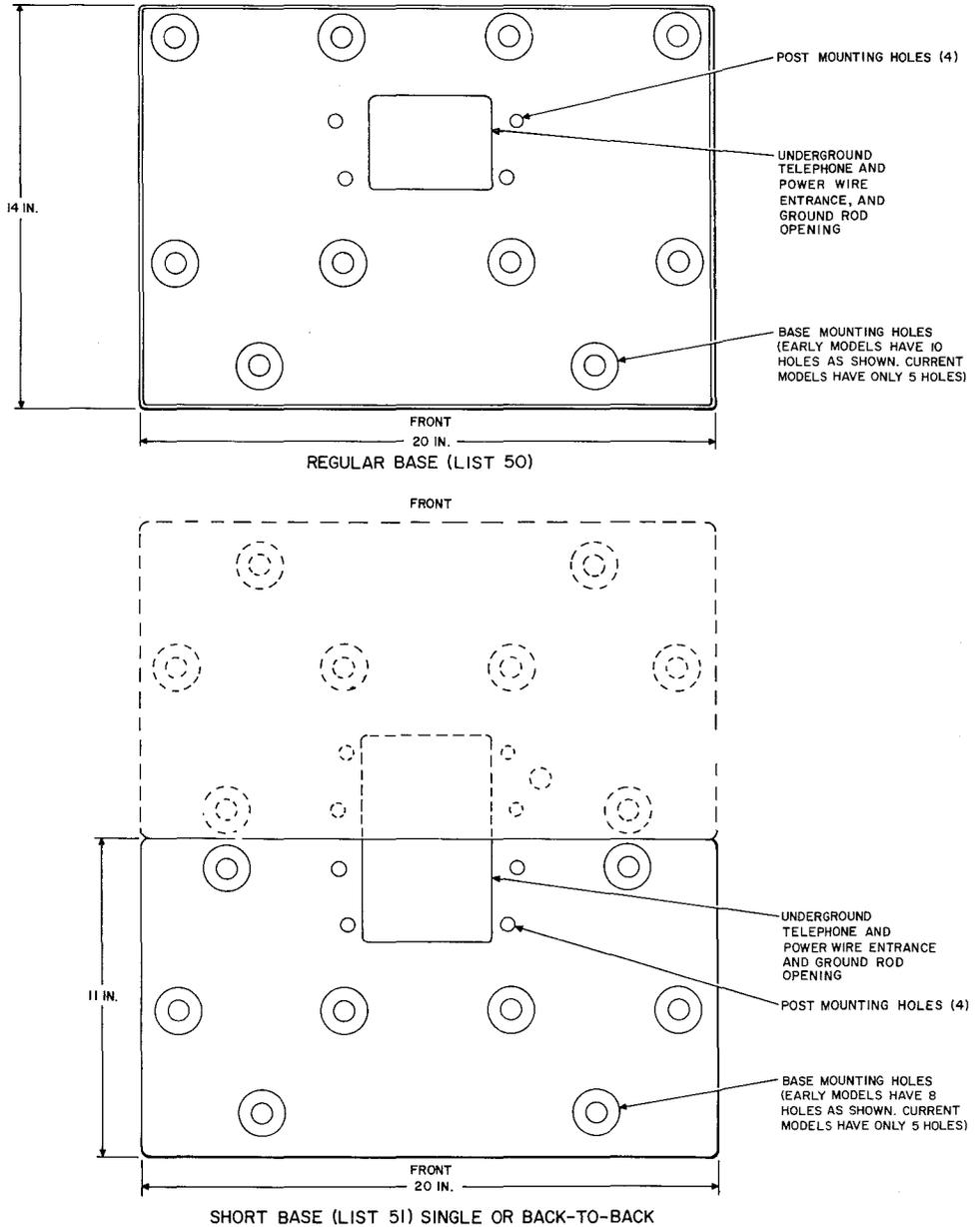


Fig. 25—Layout of Holes in List 50 and List 51 Bases, With Cover(s) Removed

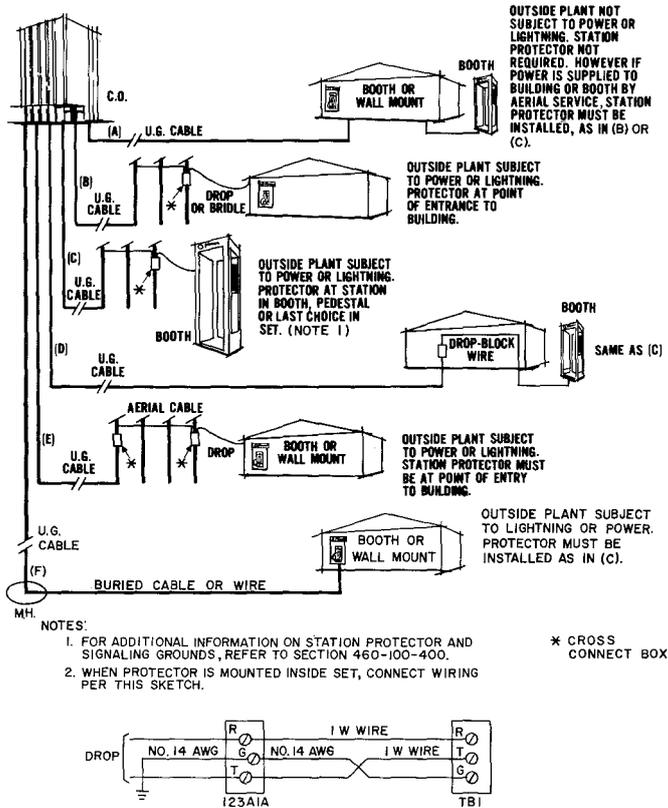


Fig. 26—Grounding Requirments

- (4) When the locking flange on the left side of panel clears the post, pivot the left side away from the post.
- (5) Pull the panel to the left and away from the post.
- (6) To install panel, use reverse procedure.
- (b) Remove the four 5/8-11 by 1-3/4 hex head bolts and four 5/8-inch flat washers from the base.
- (c) Align the four mounting holes in post with the threaded holes in base and secure post to base using the hardware removed in (b).
- (d) Install base cover(s), if applicable, using reverse procedure from 3.05.

3.08 List 41 Post Assembly:

*Note:* The List 41 post assembly differs from the List 40 in length only. It is shorter for drive-up installations.

- (a) Repeat 3.07.

3.09 List 43 Post Assembly:

*Note:* The List 43 post assembly is similar to the Lists 40 and 41. It is designed for installing a coin telephone set at the universal height (54 inches to coin slot).

- (a) Repeat 3.07.

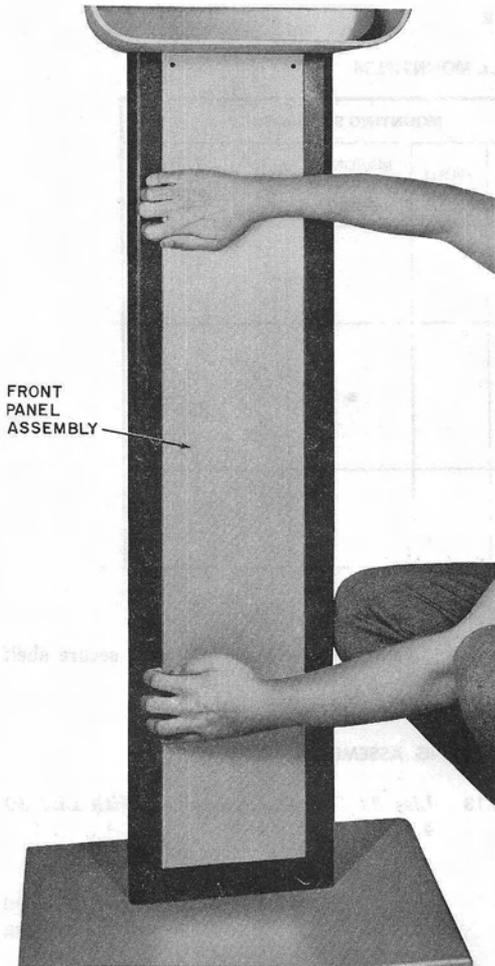


Fig. 27—Installing or Removing Front Panel Assembly on Post

## WALL MOUNTINGS AND PLATES

### 3.10 *List 42 Wall Mounting:*

- (a) Hold the mounting on wall at the required height (Fig. 11), ensure that it is plumb, and mark the locations for six outer fasteners and any additional fasteners in the center area as required.



*Use eye protection while drilling.*

- (b) Put the mounting aside and drill holes at the marked locations. Use Table E as a guide for drill sizes.
- (c) Install the mounting and secure it with screws or bolts per Table E.

### 3.11 *List 45 Wall Mounting:*

**Note:** The List 45 wall mounting can be installed with or without a List 46 wall plate.

- (a) To install a List 45 **without** a List 46:
  - (1) Hold the mounting on wall at the required height (Fig. 12), ensure that it is plumb, and mark the locations for fasteners.



*Use eye protection while drilling.*

- (2) Put the mounting aside and drill holes at the marked locations. Use Table E as a guide for drill sizes.
- (3) Secure mounting using the prescribed hardware, per Table E.
- (b) To install a List 45 **with** a List 46:
  - (1) Secure the List 46 wall plate to the List 45 wall mounting using hardware supplied with plate.
  - (2) Hold the mounting, with plate, on wall at the required height (Fig. 12), ensure that it is plumb, and mark the locations for fasteners at the two key hole slots.



*Use eye protection while drilling.*

- (3) Put the mounting aside and drill holes at the marked locations. Use Table E as a guide for drill sizes.
- (4) Install the two screws or bolts in the drilled holes per Table E.
- (5) Hang the mounting on the two screws and mark the location for six additional

TABLE E

## FASTENERS FOR WALL MOUNTINGS

FASTENER	DRILL SIZE	MOUNTING SURFACES			
		SOFT WOOD	HARD WOOD	MASONRY (CONCRETE, BRICK)	CINDER BLOCK, HOLLOW TILE
No. 14 by 1-1/4 inch tapping screw and 5/16 ID flat washer	3/32	•	•		
5/16 by 2-inch hex or RH machine screw and 5/16-inch expansion shield and 3/8 ID flat washer	5/8			•	
1/4 by 4-inch RH toggle bolt and 5/16 ID flat washer	3/4				•

fasteners along the edges and any additional fasteners in the center area as required.

(6) Repeat (3).

(7) Hang the mounting on the two screws and secure it to the wall with screws or bolts per Table E.

#### SHELF ASSEMBLY

##### 3.12 List 30 Shelf Assembly:

- (a) Remove the two 5/16-18 by 3/4 hex head screws and two 11/32-inch flat washers from rear of shelf assembly.
- (b) Align the holes in the rear of shelf with mounting holes on front of post (Fig. 28).

Using the hardware removed in (a) secure shelf to post.

#### HOUSING ASSEMBLIES

##### 3.13 List 31 Housing Assembly With List 40, 41, or 43 Post:

**Note:** If a mast assembly is to be installed on a post, install the mast before the housing (see 3.25).

- (a) Using a KS-19192, List 1 wrench, remove the two security screws from top of housing and loosen the two security screws at rear of diffuser. Remove diffuser.

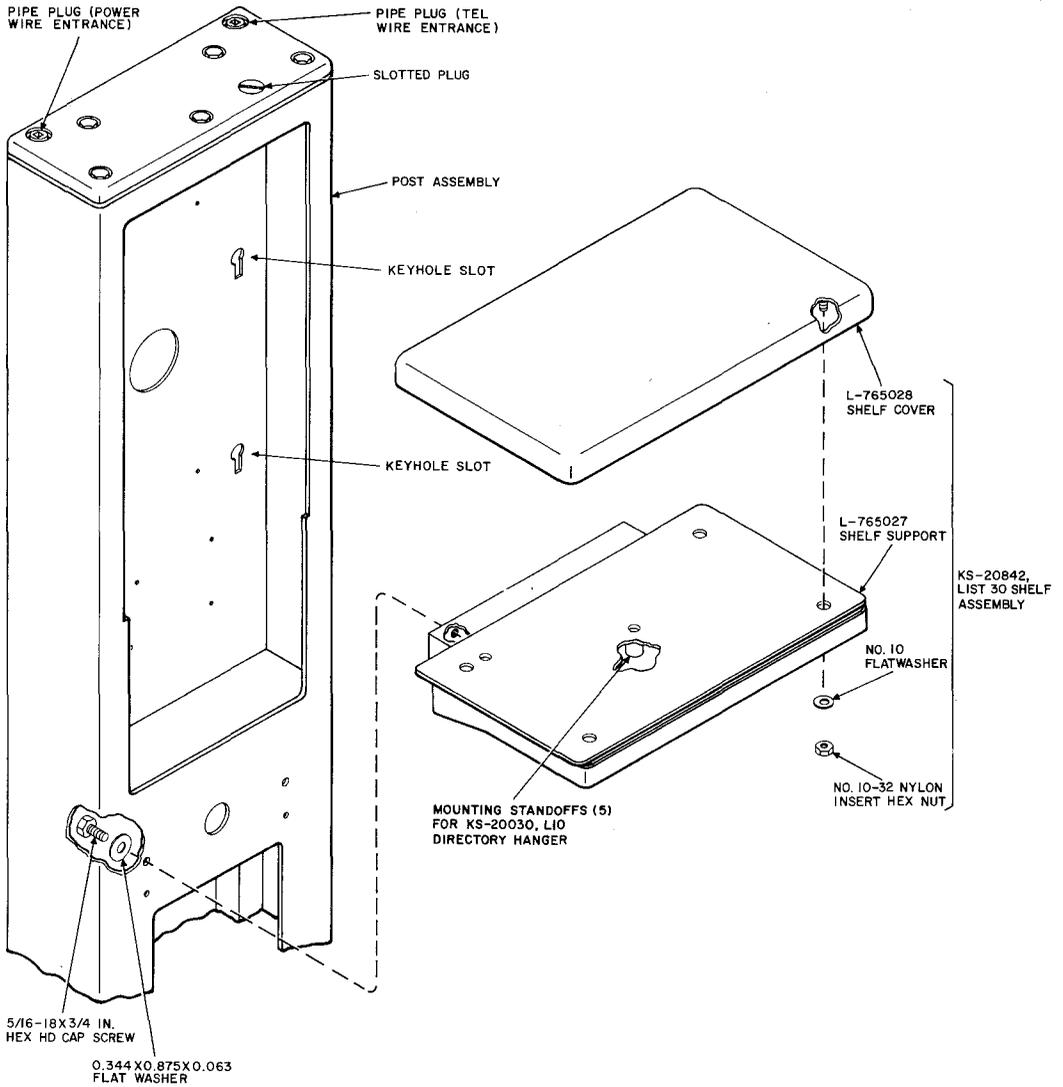


Fig. 28—Installation of List 30 Shelf on Post



**Wear eye protection when handling the fluorescent lamps.**

- (b) Remove the two fluorescent lamps from the light fixture.
- (c) Remove the hex head screws and two flat washers from lower rear of housing and remove the L-765034 cover (Fig. 29).
- (d) Remove the two outside-front hex head screws and flat washers from top of post.
- (e) Position housing on post while carefully guiding electrical cord through the cable hole located in center of post near the bottom edge of housing.
- (f) Secure top of housing using the two 3/8-16 by 1-1/2 hex head screws and two 13/32-inch flat washers removed in (d). Do not tighten the screws.
- (g) Secure lower part of housing using the L-765034 cover, the two 5/16-18 by 1 hex head screws and two 11/32-inch flat washers removed in (c).

**Note:** Screws are fed through post from inside. L-765034 cover is equipped with two threaded holes.

- (h) Tighten the two screws installed in top of housing.
- (i) Ensure that the two connectors in upper part of housing are properly engaged and install the two fluorescent lamps removed in (b).
- (j) Plug the electrical cord into the receptacle provided in lower portion of post (Fig. 30).
- (k) Install diffuser in housing and tighten the two screws at rear of diffuser. Install the two security screws, removed in (a), and secure top of diffuser.
- (l) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402.

### 3.14 List 31 Housing Assembly With List 42 Wall Mounting:

- (a) Repeat 3.13 (a) through (c).
- (b) Remove the two hex head screws from top of mounting.
- (c) Using the KS-19192, List 1 wrench, loosen two security screws and remove bottom cover from mounting (Fig. 11).
- (d) Position housing on support while carefully guiding electrical cord through the cable hole located at lower-front portion of support.
- (e) Secure top of housing using the two 3/8-16 by 3/4 hex head screws removed in (b). Do not tighten screws.
- (f) Secure lower part of housing using the L-765034 cover, the two 5/16-18 by 1 hex head screws and two 11/32-inch flat washers removed in 3.13(c) (Fig. 29).

**Note:** Screws are fed through support from inside. L-765034 cover is equipped with two threaded holes.

- (g) Tighten the two screws installed in top of housing.
- (h) Ensure that the two connectors in upper part of housing are properly engaged and install the two fluorescent lamps.
- (i) Plug the electrical cord into the receptacle provided in bottom of support (Fig. 11).
- (j) Install and secure bottom enclosure cover on support.
- (k) Install diffuser in housing and tighten the two security screws at rear of diffuser. Install the two security screws, removed in (a), and secure top of diffuser.
- (l) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402.

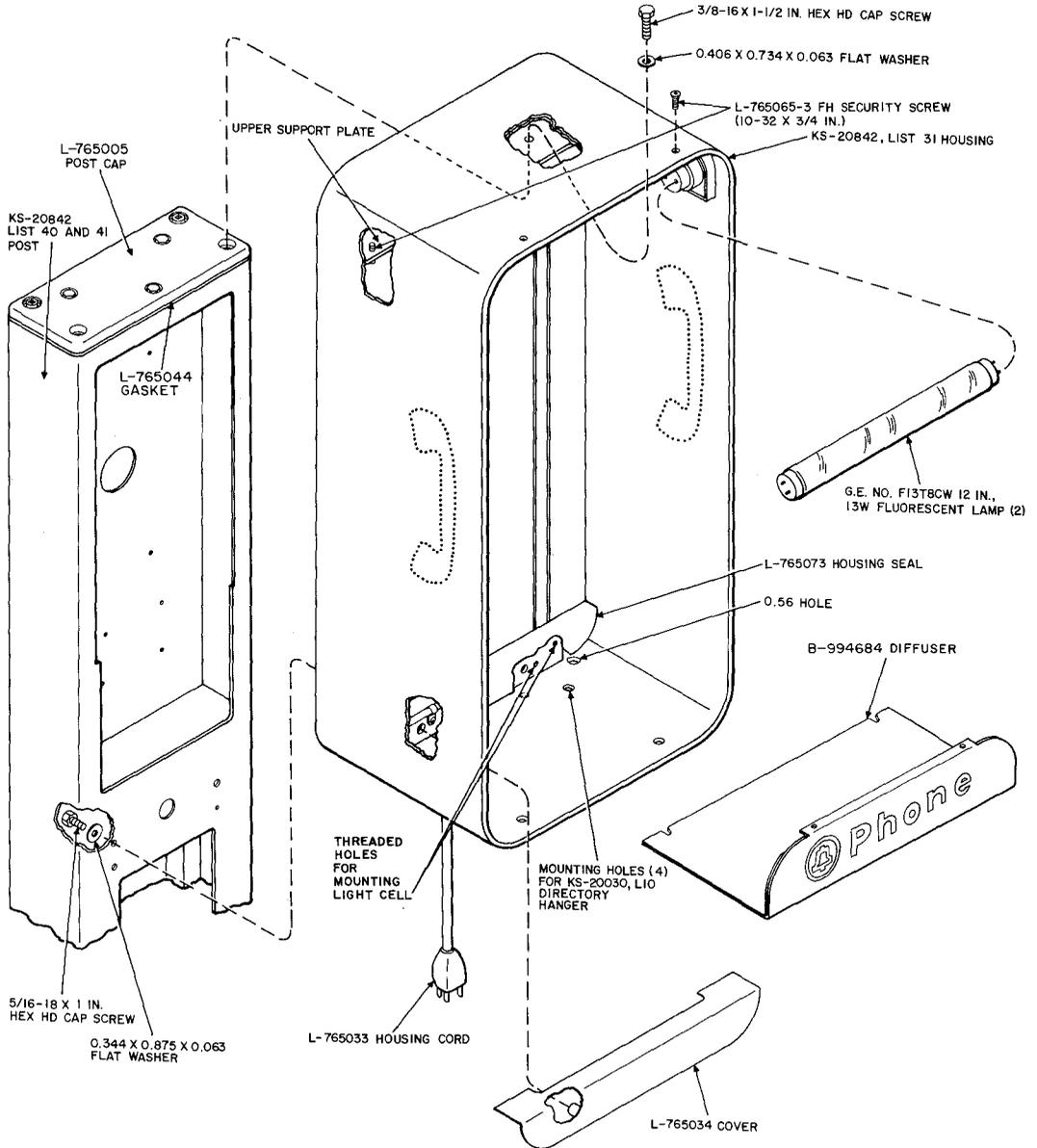
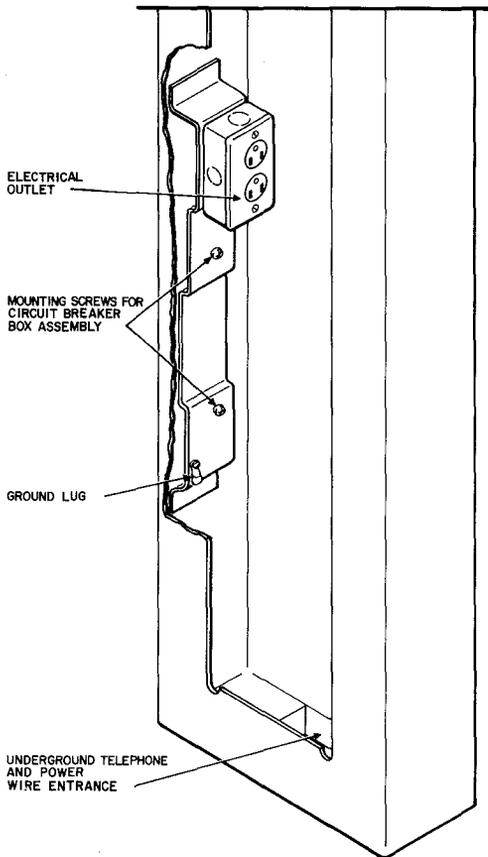


Fig. 29—Installation of List 31 Housing on Post



**Fig. 30—Outlet for Terminating Electrical Service and Optional KS-19426, List 17 Circuit Breaker Box Mounting Location**

### 3.15 List 31 Housing Assemblies Back-to-Back (Fig. 31):



**Never install back-to-back housings with a List 51 (short) base assembly.**

(a) There are eight center-punch marks on rear of the Lists 40 and 43 posts. Using a small drill bit (approximately 1/8-inch) drill eight pilot holes at the marks.

- (b) Using a No. 3 drill bit (0.213-inch diameter), enlarge the eight holes.
- (c) Using a 1/4-28 tap, thread the **SIX** upper holes.
- (d) Using a 3/8-inch drill bit, further enlarge the two bottom 0.213-inch holes to 3/8-inch. These two holes will allow the telephone and power cables to run between post and mounting. Remove knockouts in List 42 mounting to align up with the two 3/8-inch holes in the post.
- (e) From the List 71 mounting kit, use the two L-765089 rubber seals. Remove paper backing from seals and apply them to rear of post mounting around the two 3/8-inch holes drilled in (d).
- (f) From the List 71 kit, use six 1/4-28 by 1/2 hex head screws and six 9/32-inch by 47/64 OD flat washers and secure the mounting to the post.
- (g) Install the first List 31 housing on the post per 3.13.
- (h) Remove the two L-765055 side panels from the List 71 kit and install them as follows:
  - (1) Place the strips on each side of the List 42 wall mounting. **Make sure the strip edges are placed inside the lip of the List 31 housing.**
  - (2) Using the strips as marking templates, mark locations for eight holes. Remove the strips.
  - (3) Using a No. 29 drill bit, (0.136) drill the eight marked holes to a depth of approximately 1/2-inch.
  - (4) Reposition the strips and secure them with the eight No. 8-18 by 1/2 Phillips flat head tapping screws from the List 71 kit.
- (i) Install electrical cord assembly between post and mounting as follows:
  - (1) Remove front panel from post per 3.07(a).

- (2) Using a KS-19192, List 1 wrench, loosen two security screws and remove bottom cover from mounting (Fig. 11).
- (3) Remove the L-765058 cord assembly from the List 71 kit and remove the strain relief from the cord. Retain the strain relief.
- (4) Run the cord assembly from the electrical outlet in post, up and through the left 3/8-inch hole (as viewed from front of post) into electrical outlet box in bottom of List 42 mounting.
- (5) Install the strain relief, retained in (3), on the cord on the mounting side.
- (6) Terminate the three cord wires on the electrical outlet per local regulations.
- (j) Install telephone wiring between post and mounting as follows:
  - (1) Run the two drops into bottom of post and terminate them on a 128A1A-2 protector (procured locally). See Fig. 31.
  - (2) From one side of the protector, run inside wire up through the post and into the List 31 housing.
  - (3) From the other side of the protector, run inside wire up through the post, through the wire hole, into the List 42 mounting (Fig. 31).
- (k) Install the second List 31 housing on the List 42 mounting per 3.14 (a) through (c) and 3.15 (b) through (k).
- (l) If the post is installed on a List 50 base, use a KS-19192, List 1 wrench and replace the short base cover with the L-765057 cover from the List 71 kit.
- (m) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402.
- (n) Connect all electrical plugs per Fig. 31.
- (o) Install bottom cover on List 42 mounting and front cover on post.

### 3.16 *List 32 Housing Assembly With List 40 Post or List 45 Wall Mounting and List 48 Filler Panel.*

**Note:** If a mast assembly is to be installed on a post, install the mast before housing (see 3.25).

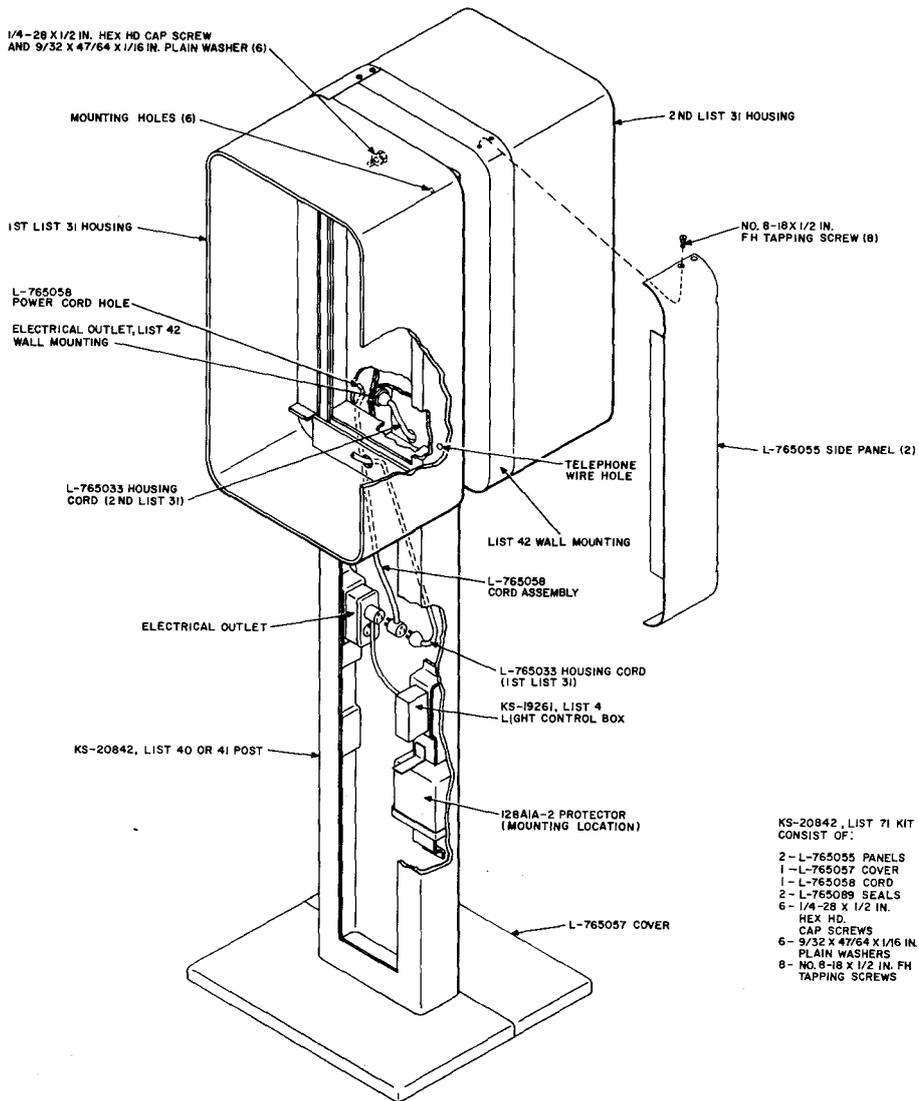
- (a) Using a KS-19192, List 1 wrench, remove four security screws (or remove two security screws and loosen two spring loaded fasteners) and remove light diffuser from the housing.

**Note:** Current manufactured light diffusers are hinged for convenience of replacing light bulbs but they can be removed as described in (a).



***Wear eye protection when handling the fluorescent lamps.***

- (b) Remove the two lamps.
- (c) Remove two hex head screws and two flat washers from rear of housing at shelf level.
- (d) Remove the center-front hex head screw and flat washer from top of post or mounting. Invert screw, and install it back in the same hole from the opposite side for use as a locating stud (Fig. 32).
- (e) Remove the two outside-front hex head screws and flat washers from top of post or mounting.
- (f) Using the inverted screw as a locating stud, position the List 32 housing on post or mounting while guiding electrical cord through the cable hole in post or mounting at bottom of housing.
- (g) Secure top portion of housing to post or mounting using the two 3/8-16 by 1-1/2 hex head screws and two 3/8-inch flat washers removed in (e). Do not tighten screws.
- (h) Secure the lower portion of housing to post or mounting using the two 5/16-18 by 3/4 hex head screws and two 5/16-inch flat washers removed in (c). Do not tighten screws.



- KS-20842, LIST 71 KIT  
CONSIST OF:
- 2 - L-765055 PANELS
  - 1 - L-765057 COVER
  - 1 - L-765058 CORD
  - 2 - L-765089 SEALS
  - 6 - 1/4-28 X 1/2 IN. HEX HD. CAP SCREWS
  - 6 - 9/32 X 47/64 X 1/16 IN. PLAIN WASHERS
  - 8 - NO. 8-18 X 1/2 IN. FH TAPPING SCREWS

**Fig. 31—Installation of Two List 31 Housings, Back-to-Back On One Post**

- (i) When mounting the List 32 housing on a post, remove two 1/4-28 by 1/2 hex head screws from inside the post (one from each side at skirt level). Use these two screws and secure housing panels to post.
- (j) When mounting a List 32 housing on a List 45 wall mounting, use a List 48 filler panel (Fig. 32). Slide the filler panel up in place and

- secure housing panels to filler panel using two 1/4-20 by 1/2 hex head screws (furnished).
- (k) Tighten all mounting screws.
- (l) Install the two fluorescent lamps.
- (m) Plug the electrical cord into the receptacle provided in lower portion of post or mounting.

- (n) Using the KS-19192, List 1 wrench, install the light diffuser and secure it with the security screws removed in (a).
- (o) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402.
- (p) Install front cover on post or support.

### 3.17 List 32 Housing Assemblies Side-By-Side:



*In multiple side-by-side installations, each base must be spaced 28-3/4 inches center-to-center (Fig. 33).*

**Note 1:** A KS-20842, List 73 housing kit is required for side-by-side installations.

**Note 2:** For installation purposes, the left mounting, as viewed from the front, will be designated as the first station.

**Note 3:** Remove 3/8-inch pipe plug from top of post prior to mounting the housing.

- (a) Install the List 32 housing on the first station per 3.16 (a) through (j).
  - (b) From the right wing of the first station, replace the Bell Symbol Sign with a L-767093 panel (Fig. 34) as follows:
    - (1) Remove four No. 8-32 hex nuts.
    - (2) Remove the sign.
    - (3) From the List 73 housing kit, remove one L-767093 panel and two L-767094 grommets.
    - (4) Install the two grommets in the panel.
    - (5) Install the panel in the same location from which the sign was removed.
    - (6) Secure the panel with the four hex nuts removed in (1).
  - (c) Install the List 32 housing on the second station per 3.16 (a) through (j).
  - (d) From the second station, on the side next to the first station, replace the Bell Symbol Sign with an L-767093 panel as directed in (b).
  - (e) From the left wing of the second station, remove the L-767025-1 side rail and L-767026-1 side panel with L-767028-1 glazing strip per Fig. 33.
  - (f) Install the side rail back in its original position.
  - (g) Join the two housings together as follows (Fig. 33):
    - (1) Remove two plugs from top of left wing (second station) and two from bottom.
- Note:** Plugs are pressed in place.
- (2) Align the plug holes of second station with threaded holes in first station and install four 1/4-20 by 3/4 hex socket head cap screws from the List 73 kit.
  - (3) Install four new hole plugs from the List 73 kit over the screw heads.
  - (4) Tighten all mounting screws that secure housings to posts or mountings.
  - (h) Pull the electrical cord of the second station up through housing and feed it through to the first station per Fig. 35.
  - (i) Secure the cord to housings with speed clips from List 73 kit per Fig. 35.
  - (j) Plug the cord into electrical receptacle of first station.
  - (k) Telephone wiring can be brought into each post separately or brought into one post and run to adjacent station through hole provided in top of housing.
  - (l) Close up each housing per 3.16 (l) through (p).
  - (m) Dispose of the hole plugs, Bell Symbol Sign, L-767026-1 side panel, and L-767028-1 glazing strip according to local regulations.

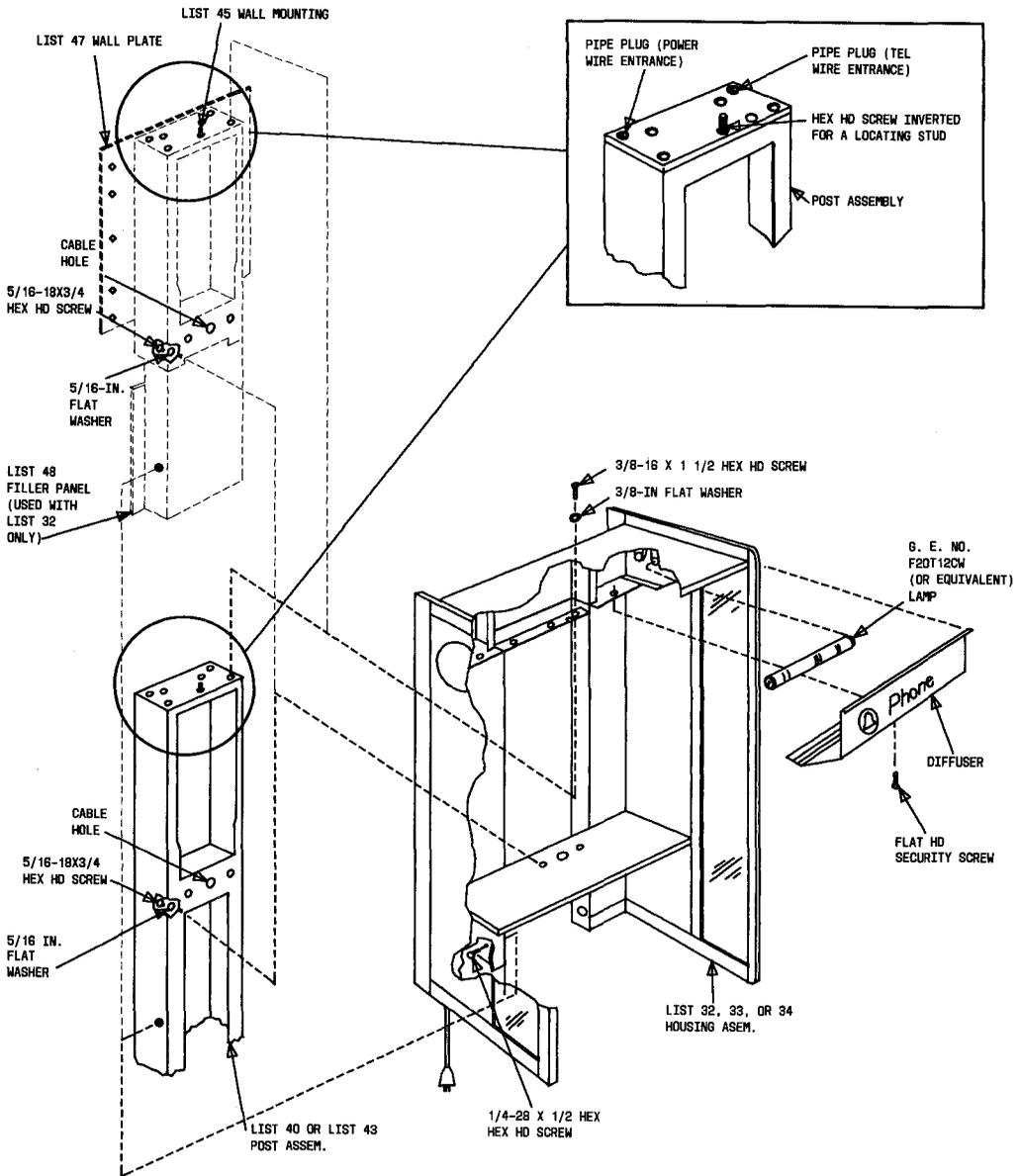


Fig. 32—Installation of List 32, 33 or 34 Housing on Post or Wall Mounting

KS-20842, LIST 73  
KIT CONSIST OF:

- 2-L-767093 PANELS
- 2-L-767094 GROMMETS
- 4-HOLE PLUGS
- 4-1/4-20 X 3/4 SCREWS
- 2-SPEED CLIPS TINNEMAN PRODUCTS INC., NO. (C-2835-025)

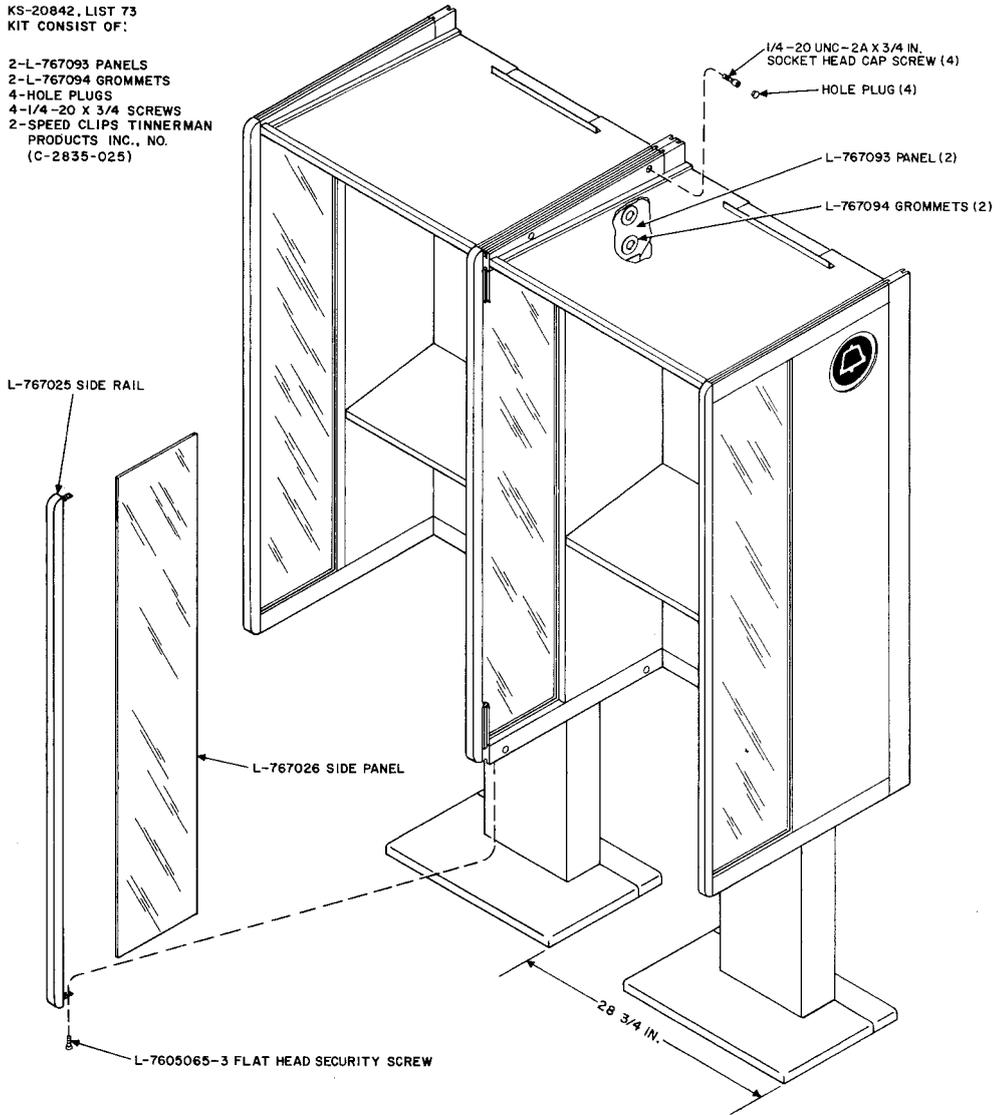


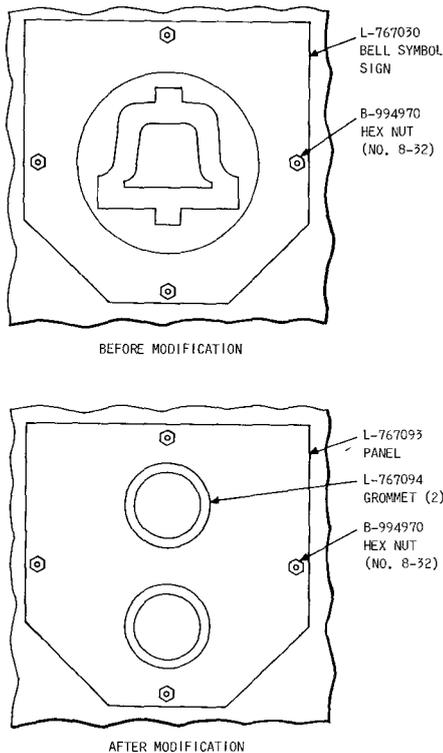
Fig. 33—Two List 32 Housings Side-By-Side

**3.18 List 33 Housing Assembly With List 43 Post or List 45 Wall Mounting:**

**Note:** The List 33 housing assembly is similar to the List 32. Installation procedures outlined

in 3.16 can be used with the following exceptions:

- (1) Remove two No. 8-32 by 1/2 truss head cross recessed screws and remove center



**Fig. 34—Replacing Bell Symbol Sign With Panel**

perforated panel above coin telephone set opening to make mounting hardware on top of post accessible.

- (a) Slide panel up approximately 1/2-inch pull out at bottom and slide downward to remove.

### 3.19 List 33 Housing Assemblies Side-By-Side:



**In multiple side-by-side installations, each base must be spaced 31-3/4 inches center-to-center.**

**Note 1:** A KS-20842, List 73 housing kit is required for side-by-side installations.

**Note 2:** For installation purposes, the left mounting, as viewed from the front, will be designated as the first station.

- (a) Install the List 33 housing on the first station per 3.16 (a) through (j).
- (b) Repeat 3.17 (b).
- (c) Install the List 33 housing on the second station per 3.16 (a) through (j).
- (d) Repeat 3.17 (d) through (m).

### 3.20 List 34 Housing Assembly With List 40 Post or List 45 Wall Mounting:

**Note:** The List 34 housing assembly is similar to the List 32; only the side and rear panels are shorter. Installation procedures outlined in 3.16 [except steps (i) and (j)] can be used.

### 3.21 List 34 Housing Assemblies Side-by-Side:



**In multiple side-by-side installations, each base must be spaced 28-3/4 inches center-to-center (Fig. 33).**

**Note 1:** A KS-28042, List 73 housing kit is required for side-by-side installations.

**Note 2:** For installation purposes, the left mounting, as viewed from the front, will be designated as the first station.

**Note 3:** Although Fig. 33 pertains to the List 32, it can be utilized in this procedure for the List 34.

- (a) Install the List 34 housing on the first station per 3.16 (a) through (h).
- (b) Repeat 3.17(b).
- (c) Install the List 34 housing on the second station per 3.16 (a) through (h).
- (d) From the second station, on the side next to the first station, replace the Bell Symbol Sign with an L-767093 panel (from the List 73 kit) as directed in 3.17(b).

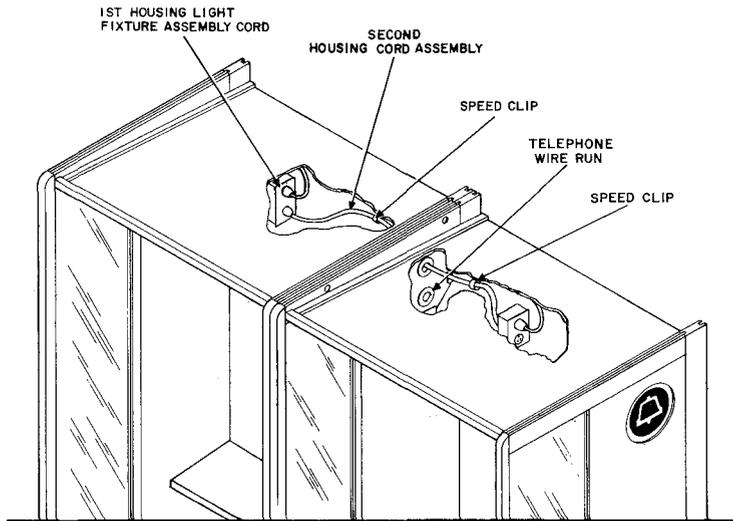


Fig. 35—Wire-Runs Between Two Walk-in Housings Side-By-Side

(e) From the left wing of the second station, remove the L-767025-2 side rail and L-767026-2 side panel with L-767028-2 glazing strip.

(f) Repeat 3.17 (f) through (k).

(g) Close up each housing per 3.16 (l) through (p).

(h) Dispose of the hole plugs, Bell System Emblems, L-767026-2 side panel, and L-767028-2 glazing strip according to local regulations.

### 3.22 List 35 or 35A Housing Assembly with List 40, 41, or 43 Post, or List 45 Wall Mounting

**Note:** If a mast assembly is to be installed on a post, install the mast before housing (see 3.25).

(a) Using a KS-19192, List 1 wrench, loosen two fasteners and remove the front bezel assembly (Fig. 36).

(b) Slide the diffuser forward and remove.



**Wear eye protection when handling the fluorescent lamps.**

(c) Remove the two lamps.

(d) Remove two hex head screws and two flat washers from rear of housing at shelf level.

(e) Remove the center-front hex head screw and flat washer from top of post or mounting. Invert screw, and install it back in the same hole from the opposite side for use as a locating stud (Fig. 36).

(f) Remove the two outside-front hex head screws and flat washers from top of post or mounting.

(g) Using the inverted screw as a locating stud, position the List 35 housing on post or mounting while guiding electrical cord through the cable hole in post or mounting at bottom of housing.

(h) Secure top portion of housing to post or mounting use the two 3/8-16 by 1-1/4 hex

head screws and two 3/8-inch flat washers removed in (f). Do not tighten screws.

- (i) Secure the lower portion of housing to post or mounting using the two 5/16-18 by 3/4 hex head screws and two 5/16-inch flat washers removed in (d).
- (j) Tighten all mounting screws.
- (k) Install the two fluorescent lamps.
- (l) Plug the electrical cord into the receptacle provided in lower portion of post or mounting.
- (m) Install light diffuser and secure it with the front bezel assembly.
- (n) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402.
- (o) Install front covers on post or support.

**3.23 List 35 Housing Assemblies Side-by-Side:**



*In multiple side-by-side installations, each base must be spaced 21-1/4 inches center-to-center.*

**Note 1:** A KS-20842, List 74 multiplying kit is required for side-by-side installations.

**Note 2:** For installation purposes, the left mounting, as viewed from the front, will be designated as the first station.

- (a) Install both housings per 3.22 (a) through (k).
- (b) From the right wing of the first station, and left wing of the second station, replace the sign panels with the filler panels from List 74 multiplying kit as follows:
  - (1) Using a KS-19192, List 1 wrench, remove two security screws from each top rail and two from each bottom rail that secure front vertical rail. Remove front rails (Fig. 37).
  - (2) Remove sign panels (Fig. 38).

- (3) From the kit, remove the filler panel and two rubber grommets.
- (4) Install the two grommets in the panel.
- (5) Transfer glazing strip from sign panel to filler panel. Ensure that sealed corners are not broken and are installed on top.
- (6) Install the filler panels with grommets
- (c) From the second station, remove the left glass panel, including the glazing strip as only one glass panel is required in a side-by-side installation.
- (d) Install the vertical rails in their original positions.
- (e) Tighten all mounting screws that secure housings to posts or mountings.
- (f) Run electrical cord from second station to first station as follows:

- (1) Remove inside-left-back panel from housing by removing screw (only finger tight) at top and pulling panel forward. Lift up and out.
- (2) Remove box cover and cable clamp from under shelf.
- (3) Fold the lamp cord of the second station down in the channel where the panel was removed (Fig. 39). Run the cord up and through one of the grommets in the filler panel.
- (4) Plug cord into end receptacle of light fixture socket in first station.
- (5) Install left rear panel in its original position. Secure finger tight with the top screw.
- (g) Telephone wiring can be brought into each post separately or brought into one post and run to adjacent station similar to the electrical cord.
- (h) Close up each housing per 3.22 (l) through (p).

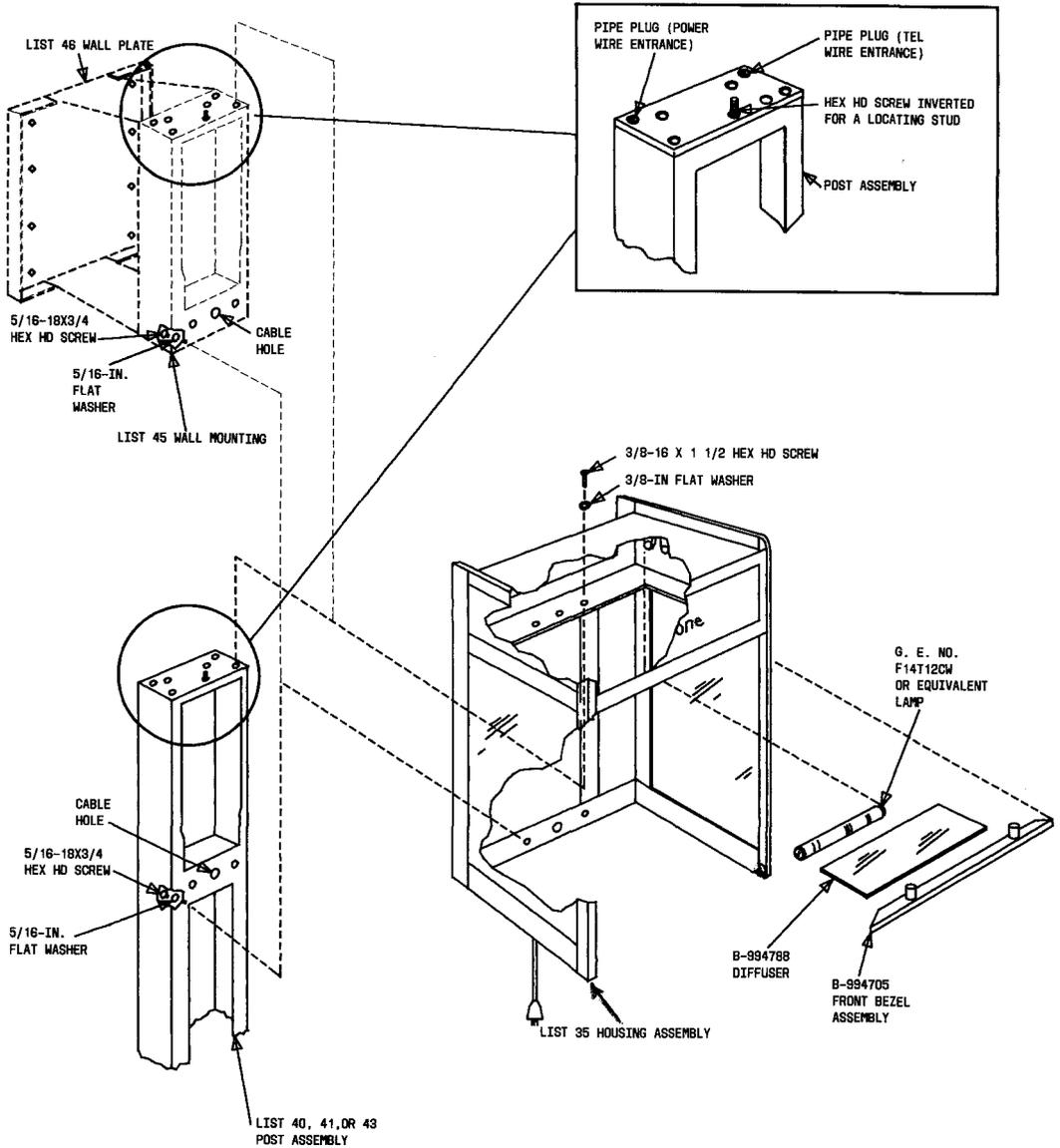


Fig. 36—Installation of List 35 Housing on Post or Wall Mounting

(i) Dispose of the hole plugs, sign panels, glass panel, and glazing strip according to local regulations.

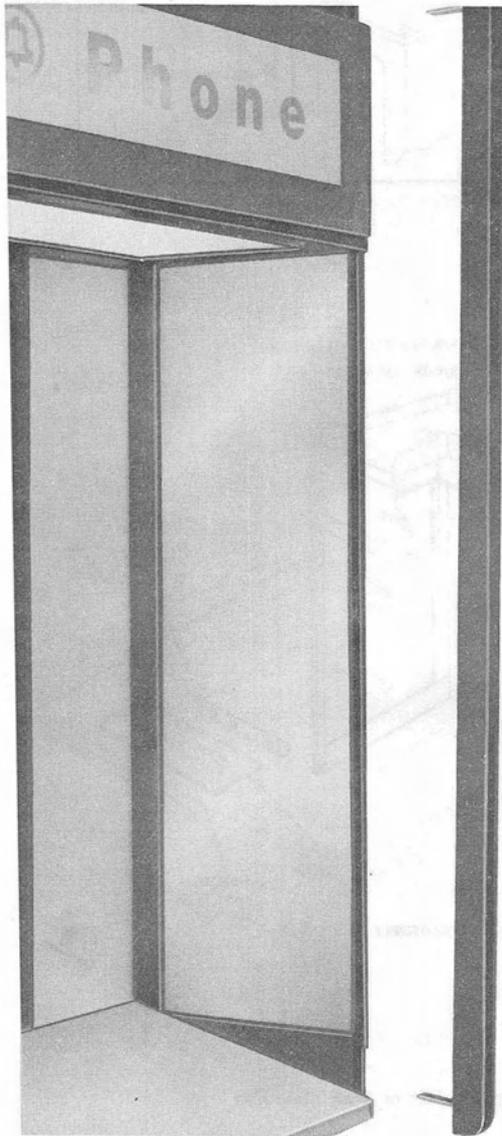


Fig. 37—Removal of Front Vertical Rail from List 35 Housing

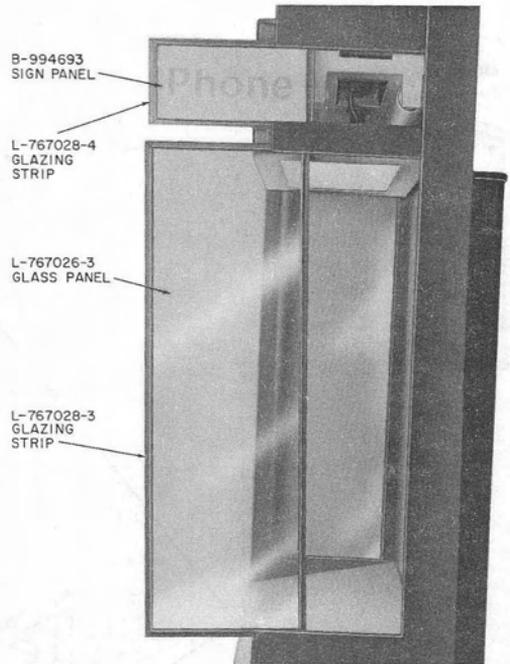


Fig. 38—Removal of Glass Panel and Sign Panel from List 35 Housing

**3.24 List 35 or 35A Housing Assemblies Back-to-Back:**



*Never install back-to-back housings with a List 51 (short) base assembly.*

- (a) There are eight center-punch marks on rear of the List 40 and 43 posts. Using a small drill bit (approximately 1/8-inch) drill eight pilot holes at the marks.
- (b) Using a No. 3 drill bit (0.213-inch diameter), enlarge the eight holes.
- (c) Using a 1/4-28 tap, thread the **SIX** upper holes.
- (d) Using a 3/8-inch drill bit, further enlarge the two bottom 0.213-inch holes to 3/8-inch.

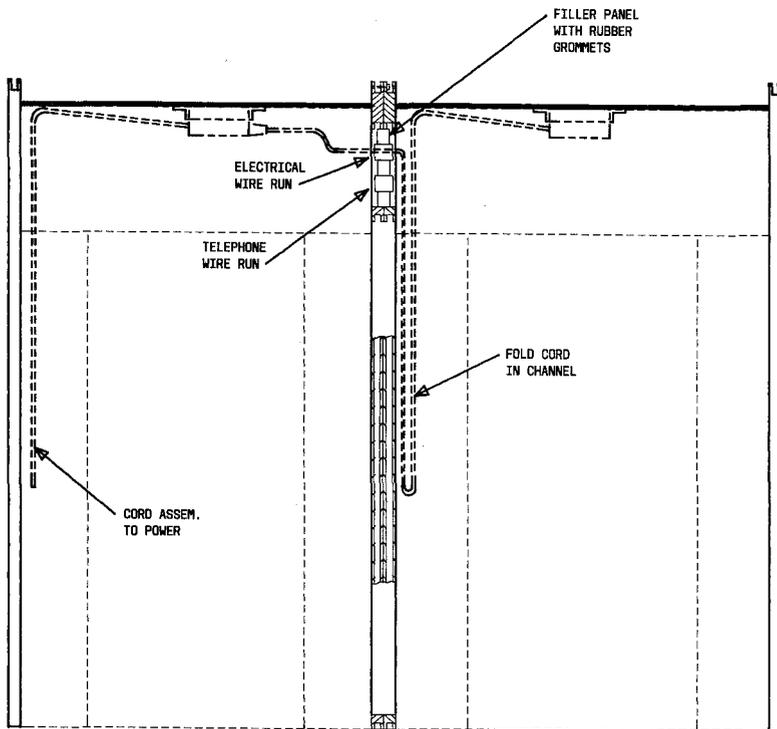
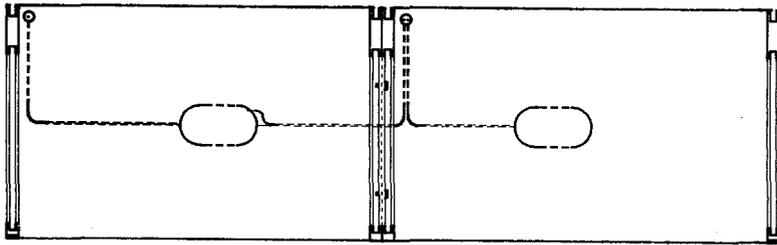


Fig. 39—Two List 35 Housings Side-by-Side

These two holes will allow the telephone and power cables to run between post and mounting.

(e) From the List 95 mounting kit, use the two L-765089 rubber seals. Remove paper backing from seals and apply them to rear of

post around the two 3/8-inch holes drilled in (d).

(f) From the List 95 kit, use six 1/4-28 by 1/2 hex head screws and six 9/32-inch flat washers and secure the mounting to the post.

- (g) Install the first List 35 housing on the post per 3.22.
- (h) Install electrical cord assembly between post and mounting as follows:
  - (1) Remove front panel from post per 3.07(a).
  - (2) Using a KS-19192, List 1 wrench, loosen two security screws and remove bottom cover from mounting (similar to Fig. 11).
  - (3) Remove the L-765058 cord assembly from the List 95 kit and remove the strain relief from the cord. Retain the strain relief.
  - (4) Run the cord assembly from the electrical outlet in post, up and through the left 3/8-inch hole (as viewed from front of post) into electrical outlet box in bottom of List 45 mounting.
  - (5) Install the strain relief, retained in (3), on the cord on the mounting side.
  - (6) Terminate the three cord wires on the electrical outlet per local regulations.
- (i) Install telephone wiring between post and mounting as follows:
  - (1) Run a quad cable of inside wire from the 128A1A protector in the post up and through the right 3/8-inch hole (as viewed from front of post) and terminate it on the 123A1A protector in bottom of mounting.
- (j) Install the second List 35 housing on the List 45 mounting per 3.22.
- (k) If the post is installed on a List 50 base, use a KS-19192, List 1 wrench and replace the short base cover with L-765057 cover from List 95 kit.
- (l) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402. Terminate both telephone lines on the 128A1A protector in post.
- (m) Connect all electrical plugs.
- (n) Install bottom cover on List 45 mounting and front cover on post.

## MISCELLANEOUS EQUIPMENT

### 3.25 Mast Assemblies:

**Note:** There are three different mast assemblies, differing in length only. They can be installed on either of the three posts. The List 70 is the only one that can be used with overhead power. List 77 should not be mounted on a List 43 post.

- (a) Remove five hex head screws and flat washers, the L-765005 post cap, and the L-765044 seal assembly from top of post.
- (b) Remove the paper backing from the L-765091 seal assembly (furnished with mast) and secure the seal to bottom of mast (Fig. 40).
- (c) If overhead power and telephone wires are to be brought in (List 70 mast only), remove the threaded hole plugs from top of post.
- (d) Install mast on post and secure it with the five 3/8-16 by 1-1/2 hex head screws and five 13/32-inch flat washers removed in (a).

**Note:** If a housing is to be installed immediately after the mast, do not install the three front screws at this time.

- (e) If overhead wiring is to be used, install Crouse Hines 3/4-inch No. F-285 (or equivalent) service head plus 3/4-14 by 1-1/2 close nipple (Fig. 41).

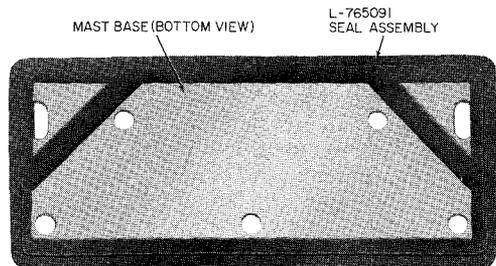


Fig. 40—Bottom View of Mast Showing Correct Position of Seal

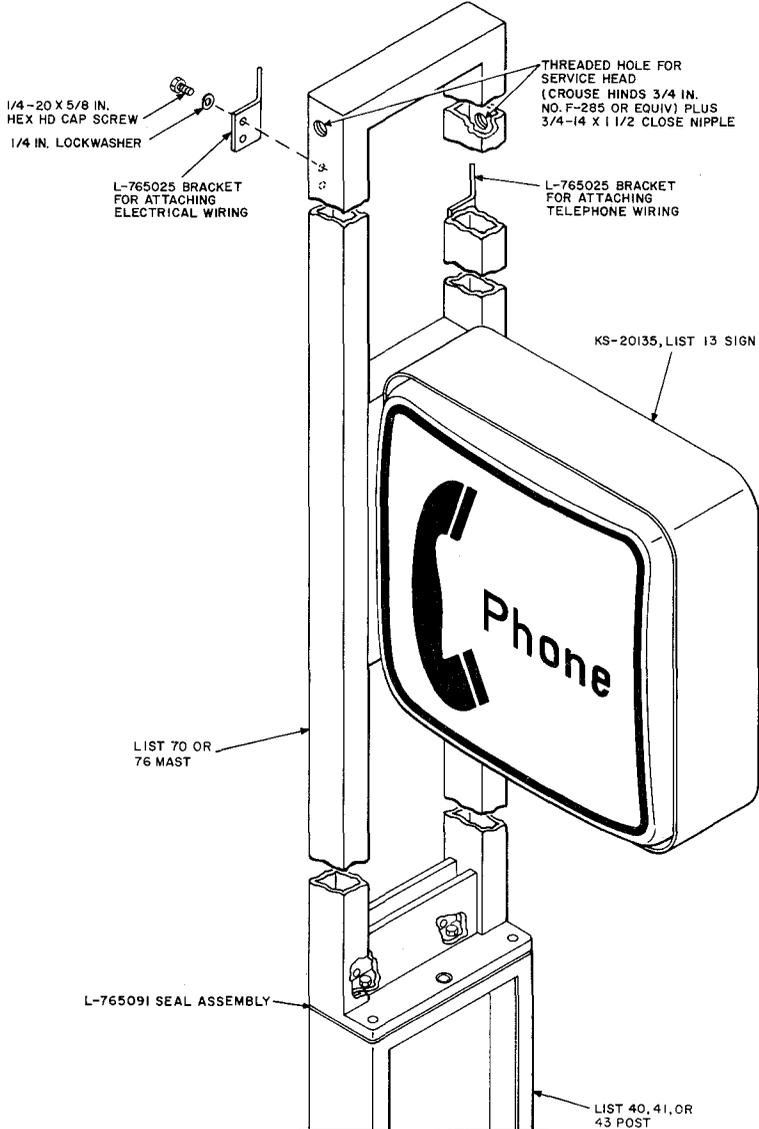


Fig. 41—Installing List 70 Mast on Post

**3.26 Illuminated Signs:**

- (a) **KS-20135, List 3 or 13 (Fig. 42):** This sign can be installed on a KS-20842, List 70 or 76 mast.

**Note:** Before mast is installed on post, pull KS-20842, List 79 power cord (furnished with sign) through post and mast as shown.

- (1) Secure mast to post (3.25).
- (2) Slide strain-relief connector over cord and thread into mast. Do not tighten.
- (3) Loosen four PH screws and remove housing cover from sign assembly.
- (4) Remove four 1/4-20 by 5/8 hex head screws from mounting holes in mast.
- (5) Install sign on mast using hardware removed in (4). Ensure that sign housing slides around strain relief connector. Tighten the connector.
- (6) Open the hinged lens assembly to make lamp socket accessible.
- (7) Route power cord through opening in rear of housing.
- (8) Connect (BK) and (W) leads to lamp base and (G) lead to electrical box.
- (9) Install lamp base in electrical box.

**Caution: Do not expose eyes or skin surface to ultra violet rays of a burning mercury arc if the outer glass envelope is broken.**

- (10) Install the self-ballasted mercury vapor lamp (furnished, but packaged separately).
- (11) Close hinged lens.
- (12) Install housing cover over rear portion of sign and secure with the four screws loosened in (3).
- (13) Plug power cord into receptacle in bottom of post.

- (b) **KS-20031, List 1 (Fig. 18):** Can be installed on all masts.

- (1) Install a KS-20842, List 72 sign kit on top of mast per Fig. 43 and 44.
- (2) Install the sign on the adapter per Fig. 43.

**3.27 KS-20842, List 75 Cover Assembly:**

- (a) Install the List 75 cover assembly per Fig. 45. All components are furnished.

**Note:** The L-765095 shim is not used when a KS-20030, List 10 directory hanger exists. The List 75 cover assembly cannot be used if a KS-21435, List 1 directory facility exists.

**3.28 Directory Hangers/Facilities:**

- (a) **KS-20030 Directory Hangers:**

**Note:** Directory hangers are not recommended on drive-up installations.

- (1) Install a KS-20030, List 10 (see Table B) on a KS-20842, List 30 shelf or a KS-20842, List 31 housing as directed in Section 508-710-102.
- (2) Install a KS-20030, List 11, 12, or 13 (see Table B) on a KS-20842, List 32, 33, or 34 housing as directed in Section 508-710-102.

- (b) **KS-21435 Directory Facility (Fig. 20):**

**Note:** Directory hangers are not recommended on drive-up installations.

- (1) Install a KS-21435, List 1 directory facility under a KS-20842, List 31 housing using the four No. 10-32 by 3/8 flat head security screws furnished with the facility.

**Note:** A KS-20842, List 75 cover assembly cannot be used on a List 31 housing where a KS-21435, List 1 directory facility exists.

- (2) Install a KS-21435, List 2 directory facility under a KS-20842, List 32, 33, or 34 housing using the four No. 10-32 by 3/8 round head security screws and four No. 10 lockwashers furnished with the facility.

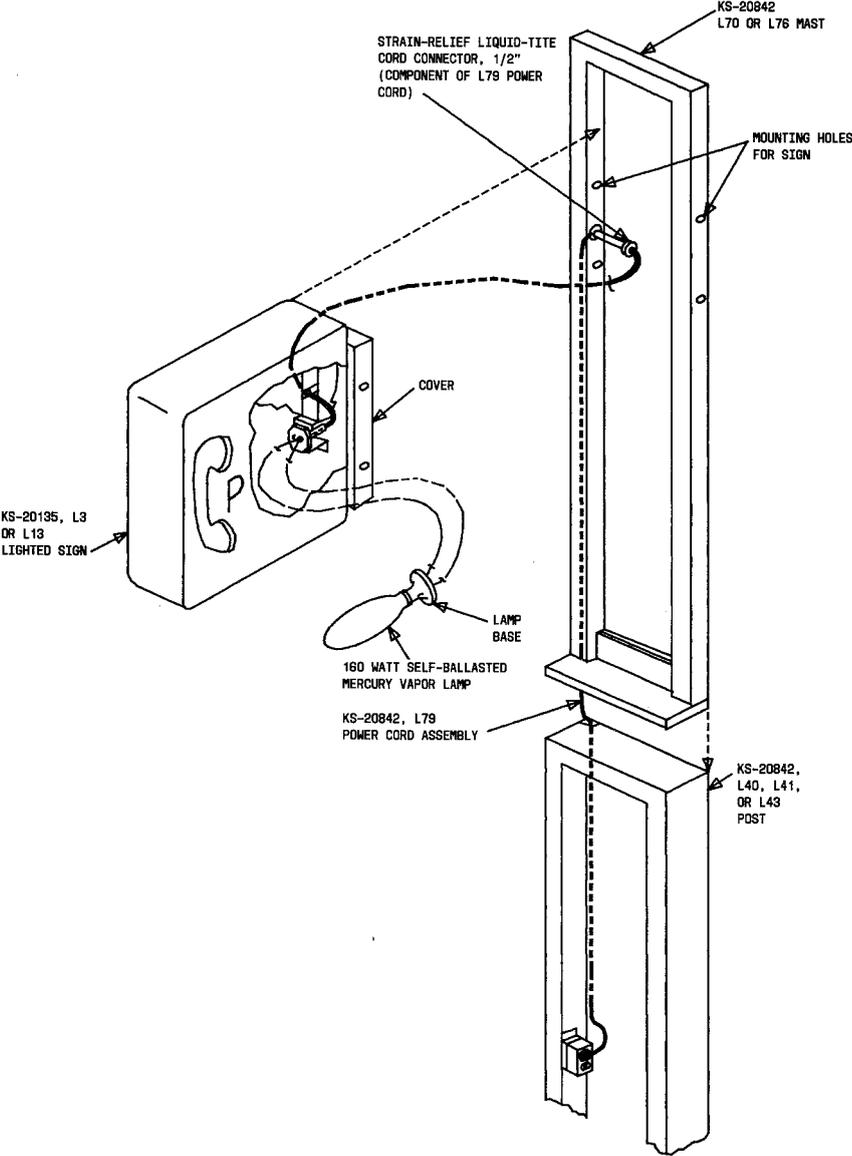


Fig. 42—Installation of KS-20135 Sign

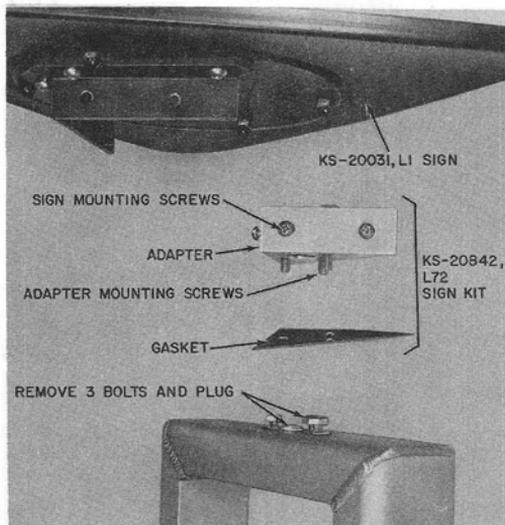


Fig. 43—Installation of KS-20031, List 1 Sign

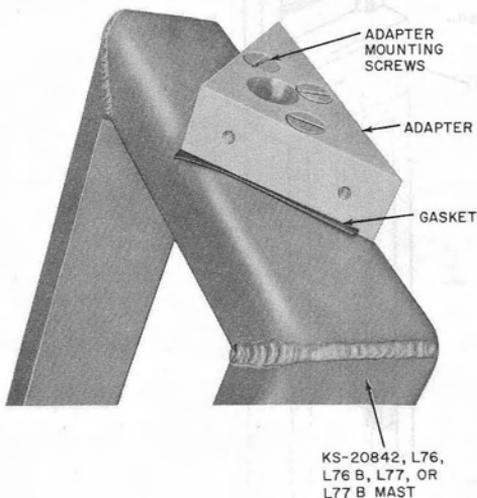


Fig. 44—Installation of KS-20842, List 72 Sign Kit

(3) Install a KS-21435, List 3 directory facility under a KS-20842, List 30 shelf using the four No. 10-32 by 3/8 round head security screws and four No. 10 lockwashers furnished with the facility.

### 3.29 Light Control Unit:

- (a) In single installations use a KS-19261, List 4 light control.
- (b) In a multiple installations use a KS-19261, List 4 light control plus a KS-19261, List 10 kit.
- (c) Use installation procedures outlined in Section 508-825-100.

### 3.30 Circuit Breaker and Service Entrance Box:

- (a) Use a KS-19426, List 17 service entrance box and install on the bracket provided in lower portion of post (Fig. 21).
- (b) Use a Heinemann Electric Co. No. 0912 single pole circuit breaker, 120V, 15 amp, time-delay curve No. 3. Purchase locally as catalog No. 91-106-1. See Fig. 21.

## WIRING

### 3.31 Telephone Wiring:

- (a) Wire entrance in posts is located:
  - (1) Right rear corner at top (Fig. 28).
  - (2) Bottom cutout at base (Fig. 30).
- (b) Wire entrance in wall mountings is located:
  - (1) Top center of List 42 (Fig. 11) and List 45.
  - (2) Bottom left of List 42 (Fig. 11) and List 45.
- (c) Terminate telephone wiring on the 123A1A or 128A1A protector located:
  - (1) Bracket in lower-right-rear of a post (Fig. 31).

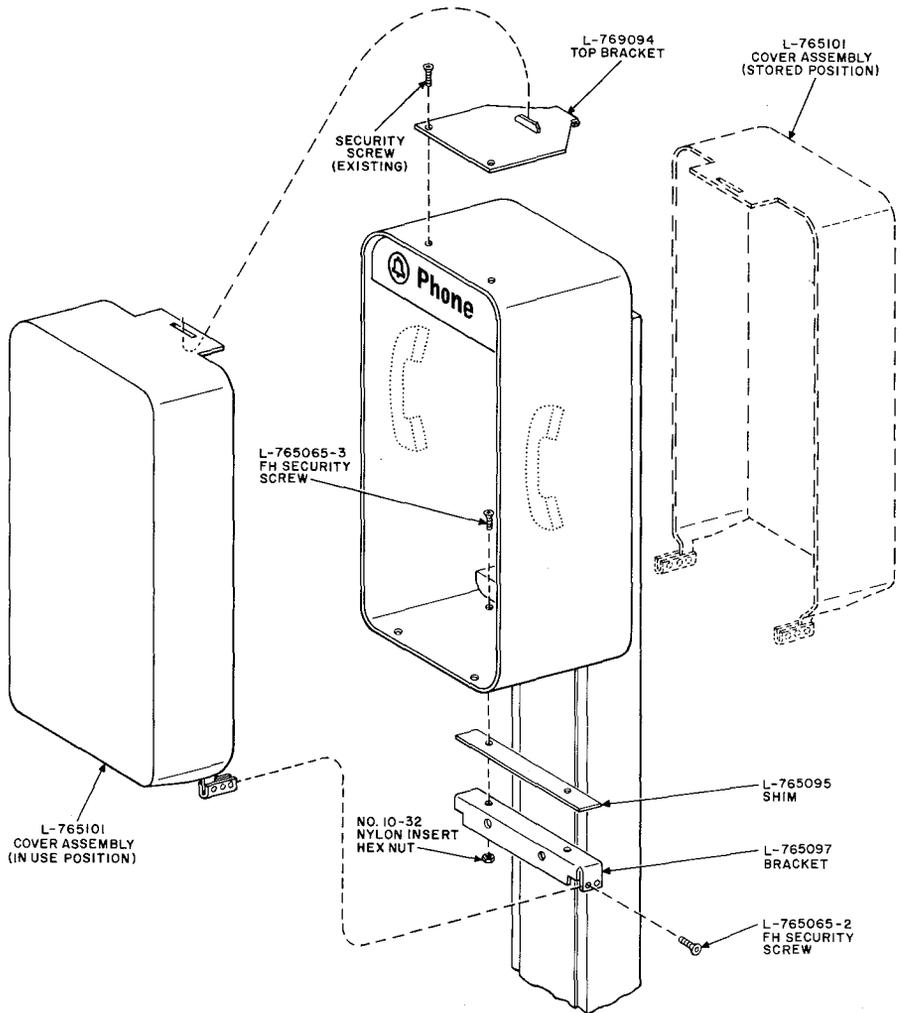


Fig. 45—KS-2084, List 75 Cover Assembly—Installation Procedure

- (2) Bottom cover of a List 42 wall mounting (Fig. 11) and List 45 wall mounting.

**Note:** If underground entrance is used, provide conduit all way from base to protector.

### 3.32 Electrical Wiring:

- (a) Install 110-volt wiring to conform with current requirements of the National Electrical Code, Government Agencies, and company standards.



***Under no circumstances shall any makeshift or temporary electrical connections be made on lighting equipment. Before making any repairs or replacements in electrical equipment, operate the electric switch and make sure that the circuit is dead. Verification can be made by using an electric wire tester or other approved testing devices. Wear eye protection when handling fluorescent lamps.***

- (b) Always use a 3-wire arrangement as shown in Section 508-100-100.
- (c) Wire entrance in posts is located:
  - (1) Left rear corner at top (Fig. 28).
  - (2) Bottom cutout at base (Fig. 30).
- (d) Wire entrance in wall mountings is located:
  - (1) Top right of List 42 (Fig. 11) and List 45.
  - (2) Bottom right of List 42 (Fig. 11) and List 45.
- (e) Terminate the electrical wires in the electrical receptacle located:
  - (1) Bracket in lower-left rear of posts (Fig. 30).
  - (2) Bottom cover of a List 42 wall mounting (Fig. 11) and List 45 wall mounting.

**Note:** If underground entrance is used, provide conduit all the way from base to the electrical outlet or circuit breaker box.

### 3.33 **Grounding:**

- (a) Ground for the station protector is usually provided by the power system ground.
- (b) Refer to Section 508-100-100 for complete grounding information.
- (c) Refer to Fig. 26 for grounding requirements.

## 4. MAINTENANCE

- 4.01 The local telephone company shall establish appearance standards for all exposed surfaces.
- 4.02 The local telephone company shall establish safety standards for all mountings.
- 4.03 Inspect the approach to the mounting and ensure that it is free from all safety hazards.



***Wear eye protection when removing light diffuser or replacing lamps. Turn power off before working on lighting equipment or electrical wiring.***

## LAMP REPLACEMENT

### 4.04 **List 31 Housing (Fig. 29):**

- (1) Using a KS-19192, List 1 wrench, remove two security screws from top of housing and loosen two security screws at rear of diffuser.
- (2) Remove diffuser and lamps
- (3) Install using reverse procedure.

### 4.05 **List 32, 33, or 34 Housing (Fig. 32):**

- (1) Using a KS-19192, List 1 wrench, loosen two FH security screws at front and lower the hinged diffuse.
- (2) Replace lamps and secure diffuser in its closed position.

### 4.06 **List 35 or 35A Housing (Fig. 36):**

- (1) Using a KS-19192, List 1 wrench, loosen two security screws and remove front bezel assembly.
- (2) Slide diffuser out and remove lamps.
- (3) Install using reverse procedure.

**GLASS SIDE PANEL REPLACEMENT****4.07 List 32, 33, or 34 Housing (Fig. 46):**

- (1) Using KS-19192, List 1 wrench, remove two security screws from top rail and two from bottom rail that secure front vertical rail.
- (2) Pull front vertical rail off.
- (3) Pull glass panel forward and out.
- (4) Install using reverse procedure.

**4.08 List 35 or 35A Housing (Fig. 37 and 38):**

- (1) Repeat 4.07 (1) through (4).

**ALUMINUM SIDE PANEL REPLACEMENT**

**Note:** Early version housings were not designed for field replacement of panels. They can be easily identified by the absence of a serial number near the UL label under the light diffuser.

**4.09 List 32, 33, or 34 Housing (Fig. 46):**

- (1) Remove three No. 10-24 by 1 hex socket head cap screws from rear vertical rail that secure the locking bar.
- (2) Remove locking bar.
- (3) Remove two No. 10-24 by 1-3/4 hex socket head cap screws from bottom rail that secure aluminum panel.
- (4) Slide aluminum panel to the rear against rear vertical rail.
- (5) Lift panel out.
- (6) Install using reverse procedure.

**BACK PANELS**

**Note:** Refer to Note in 4.09.

**4.10 List 32, 33, or 34 Housing:**

- (1) Remove shelf (see 4.15).
- (2) Remove the No. 10-24 by 1/2 RH screws from top of perforated panel and two No. 10-24 by 3/4 PH screws from bottom of panel.
- (3) Lift panel out.
- (4) Install using reverse procedure.

**4.11 List 35 or 35A Housing:**

- (1) Remove diffuser and lamps (4.06).
- (2) Remove the screw (it is only finger tight) from top panel.
- (3) Pull panel forward; lift up and out.
- (4) Install using reverse procedure.

**SIGN PANELS****4.12 List 35 or 35A Housing—Side Panels:**

- (1) Using KS-19192, List 1 wrench, remove two security screws from top rail and two from bottom rail that secure front vertical rail (Fig. 37).
- (2) Pull front vertical rail off.
- (3) Pull sign panel forward and out (Fig. 38).
- (4) Install using reverse procedure.

**4.13 List 35 or 35A Housing—Front or Rear Panels:**

- (1) Remove diffuser and lamps (4.06).
- (2) Remove six No. 8-32 by 1/4 Phillips RH screws and six 3/16-inch flat washers which secure retaining frame around sign panel.
- (3) Lift retaining frame up and off.
- (4) Remove sign panel.
- (5) Install using reverse procedure.

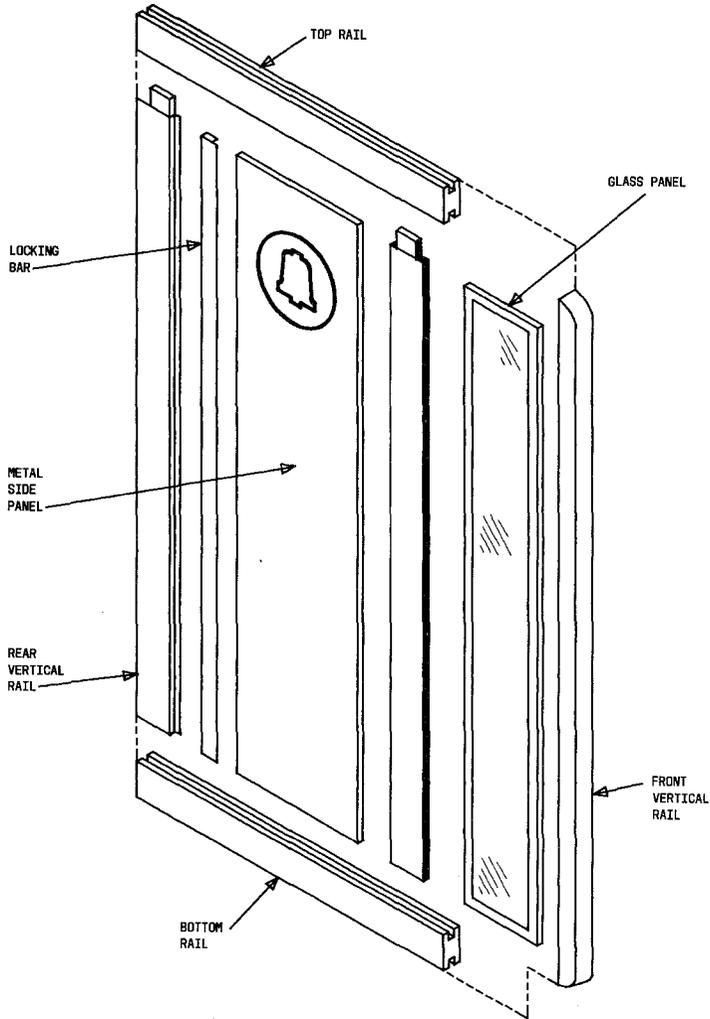


Fig. 46—Replacement of Panels

**SHELVES**

**4.14 List 30 Shelf:**

- (1) Refer to Fig. 28.

**4.15 List 32, 33, or 34 Housing:**

- (1) Remove front panel assembly from post (Fig. 27).
- (2) From inside post remove two 5/16-18 by 3/4 hex head bolts and two 11/32-inch flat

washers. It may be necessary to remove box cover to expose one of the bolts.

- (3) From under shelf at rear, remove two 1/4-20 by 5/8 hex head bolts.
- (4) From under shelf, on each side of front, remove one 5/16-18 by 3/4 hex head bolt.
- (5) Install using reverse procedure.

#### **4.16 *List 35 or 35A Housing:***

- (1) Repeat 4.15(1) through (3).

- (2) From under shelf, on each side at front, remove one 1/4-20 by 1/2 hex head bolt and one 9/32-inch flat washer.

- (3) Install using reverse procedure.

#### **REPLACEMENT PARTS**

- 4.17** For replacement parts other than those previously illustrated or listed in Table A, or B, refer to Table F.

#### **CLEANING**

- 4.18** Clean mountings in accordance with Section 508-100-101.

TABLE F  
REPLACEMENT PARTS

NAME		PART NO.	REMARKS
Ballast		G. E. No. 8G3744	Used with L-767089 Light Fixture in List 32, 33, and 34 Housings. One 8G3748 replaces two 8G3744.
		G. E. No. 8G3748-G2	Used with L-765035 Light Fixture in List 31 Housing. Replaces 6G3748-G2.
Cover, Base	Front	L-765014	Covers the Front of Lists 50 and 51 Bases
	Rear	L-765015	Covers the Rear Portion of List 50 Base
Cover, Directory		KS-21435, L10	Replacement cover for KS-21435 directory facility
		KS-19426, L42	Replacement cover for KS-20030 directory hanger
Diffuser		B-994684	Covers Light Fixture in List 31 Housing
		L-767061	Covers Light Fixture in List 32, 33, and 34 Housings
		B-994788	Covers Light Fixture in List 35 Housing
Fixture Assembly, Light		L-765035	Used in List 31 Housing
		L-767089	Used in Lists 32, 33, and 34 Housings
		B-994750	Used in List 35 Housing
Gasket, Symbol		L-767036	Used with L-767030 Bell System Sign
Lamp		G. E. No. F-13T8CW (or Equivalent)	12 inches long, 13 Watts, Fluorescent, Used in List 31 Housing
		G. E. No. F-20T12CW (or Equivalent)	24 inches long, 20 Watts, Fluorescent, Used in List 32, 33, and 34 Housings
		G. E. No. F-14T12CW (or Equivalent)	15 inches long, 14 Watts, Fluorescent, Used in List 35 Housing
		Norelco No. 160DE23SB/C (or Equivalent)	Self-ballasted mercury lamp for KS-20135 sign assembly
Lens, Sign		KS-20135, L6	Replacement lens for KS-20135, L3 illuminated sign — white graphics on blue background
		KS-20135, L7	Replacement lens for KS-20135, L13 illuminated sign — blue graphics on white background
Panel Assembly, Front		L-765006-1	For List 40 Post
		L-765006-2	For List 41 Post
		L-765006-3	For List 43 Post
		L-765006-4	For List 45 Wall Mounting

TABLE F (Cont)

## REPLACEMENT PARTS

NAME	PART NO.	REMARKS
Panel, Side Glass	B-994883-1	Left and right side panel on List 32 and 33 Housing
	B-994883-2	Left and right side panel on List 34 Housing
	L-767026-3	Left and right side panel on List 35 Housing
Panel, Aluminum, Outside	B-994860-1	Left panel for List 32 or 33 Housing
	B-994860-2	Left panel for List 34 Housing
	B-994889-1	Right panel for List 32 or 33 Housing
	B-994889-2	Right panel for List 34 Housing
	B-994872-1	Right rear panel for List 32 Housing
	B-994872-2	Right rear panel for List 33 Housing
	B-994872-3	Right rear panel for List 34 Housing
	B-994872-4	Left rear panel for List 32 Housing
	B-994872-5	Left rear panel for List 33 Housing
B-994872-6	Left rear panel for List 34 Housing	
Panel, Aluminum, Perforated, Inside	B-994664-1	Right panel for List 32 or 33 Housing
	B-994664-2	Right panel for List 34 Housing
	B-994865-1	Left panel for List 32 or 33 Housing
	B-994865-2	Left panel for List 34 Housing
	B-994875-1	Left rear panel for List 32 Housing
	B-994875-2	Left rear panel for List 34 Housing
	B-994969-1	Left rear panel for List 33 Housing
	B-994877-1	Right rear panel for List 32 Housing
	B-994877-2	Right rear panel for List 34 Housing
	B-994967-1	Right rear panel for List 33 Housing
	B-994978-1	Center rear panel for List 33 Housing

TABLE F (Cont)

## REPLACEMENT PARTS

NAME	PART NO.	REMARKS
Panel, Stainless-Steel, Perforated, Inside	B-994664-3	Right panel for List 32 or 33 Housing
	B-994664-4	Right panel for List 34 Housing
	B-994865-3	Left panel for List 32 or 33 Housing
	B-994865-4	Left panel for List 34 Housing
	B-994875-3	Left rear panel for List 32 Housing
	B-994875-4	Left rear panel for List 34 Housing
	B-994969-2	Left rear panel for List 33 Housing
	B-994877-3	Right rear panel for List 32 Housing
	B-994877-4	Right rear panel for List 34 Housing
	B-994967-2	Right rear panel for List 33 Housing
	B-994978-2	Center rear panel for List 33 Housing
Panel, Sign	B-994693	Side panels for List 34 or 35A Housing
	B-994695	Front and rear panels for List 35 or 35A Housing
Sign, Bell Symbol	L-767030	Located on each side of List 32, 33, and 34 Housings
Sign, Rear	L-765066	Bell Symbol and word Phone on a Decal Located on Rear of List 31 Housing
Strip, Glazing	L-767028-1	For glass panels on List 32 and 33 Housings
	L-767028-2	For glass panels on List 34 Housing
	L-767028-3	For sign panels on List 35 Housing
	L-767028-4	For glass panels on List 35 Housing
Support Rod	KS-21435, L11	Replacement rod for KS-21435 directory facility